GRE Dec 14, 2021

PROJECT ID: 4291-02-71

WITH: N/A

COUNTY: SHEBOYGAN

ORDER OF SHEETS

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

TOTAL SHEETS = 464

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C SHEBOYGAN, INDIANA AVE

ESSLINGEN PARK TO SOUTH 24TH STREET

LOC STR

SHEBOYGAN COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4291-02-71	WISC 2022107	1

STATE PROJECT NUMBER
4291-02-71

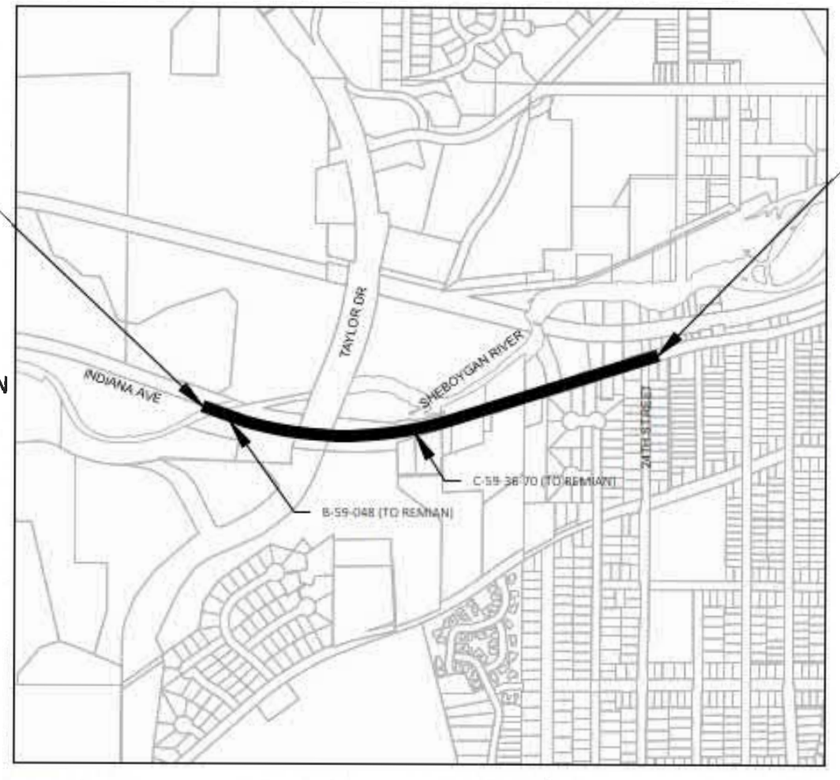


31

N

R-23-E

T-15-N



BEGIN PROJECT
STA. 9+43.27
X = 209,498.45
Y = 172,918.97

END PROJECT
STA. 42+77.71

LAYOUT
SCALE 0 1000 FT

TOTAL NET LENGTH OF CENTERLINE = 0.632 MI

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, SHEBOYGAN COUNTY, NAD83 (2011).

DESIGN DESIGNATION

A.A.D.T. (2022)	=	8,100
A.A.D.T. (2042)	=	9,700
D.H.V.	=	1,050
D.D.	=	51/49
T.	=	2.5%
DESIGN SPEED	=	30-50 MPH*
ESALS	=	905,200

* 50 MPH DESIGN SPEED FROM BEGIN PROJECT TO STA.21+50.00

40 MPH DESIGN SPEED FROM STA. 21+50.00 TO STA. 32+85.00

30 MPH DESIGN SPEED FROM STA. 32+85.00 TO END PROJECT

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE	300'E6'	ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
		TELEPHONE	T
MARSH AREA		WATER	W
		UTILITY PEDESTAL	
		POWER POLE	
WOODED OR SHRUB AREA		TELEPHONE POLE	

ACCEPTED FOR
SHEBOYGAN COUNTY

SIGNATURE:
TITLE: Planning & Cons Director
DATE: 7-27-21
SIGNATURE:
TITLE: Transportation Director
DATE: 7/28/2021

ORIGINAL PLANS PREPARED BY

STRAND ASSOCIATES®
126 N. JEFFERSON STREET, SUITE 350
MILWAUKEE, WISCONSIN 53202
(414) 273-0771

WISCONSIN
ASHLEY L PRIDEMORE
E-45534
MILWAUKEE
WI
PROFESSIONAL ENGINEER
7/27/21

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	STRAND ASSOCIATES, INC.
Designer	STRAND ASSOCIATES, INC.
Project Manager	TIMOTHY VERHAGEN, P.E.
Regional Examiner	WISDOT NE REGION LOCAL PROGRAM
Regional Supervisor	BRIAN EDWARDS

APPROVED FOR THE DEPARTMENT
DATE: 7-29-2021
(Signature)

E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\010101_TI.DWG

PLOT DATE : 7/27/2021 7:42 AM PLOT BY : ANDERSON, ERIC PLOT NAME :

GENERAL NOTES

ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED BY THE CONTRACTOR AT LEAST WEEKLY AND WITHIN 24 HOURS AFTER A RAINFALL OF 1/2-INCH OR MORE. MAINTENANCE SHOULD FOLLOW WITHIN 24 HOURS OF INSPECTION.

SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION.

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

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

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED.

RE-TOPSOIL OF GRADED AREAS IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND MULCH/EROSION MAT TOP-SOILED AREAS WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. SEED WITH TEMPORARY SEED AND MULCH ANY AND ALL DISTURBED AREAS THAT WILL NOT BE PERMANENTLY RESTORED IN 14 DAYS OR LESS.

THE LOCATION OF PROPOSED SIGNS AS SHOWN ON THE PLANS ARE APPROXIMATE. THE EXACT NUMBER OF SIGNS AND SIGN LOCATIONS ARE TO BE APPROVED BY THE ENGINEER IN THE FIELD.

ANY CONFLICTING SIGN SHALL BE COVERED OR REMOVED.

ALL DETOUR SIGNING SHALL BE KEPT A MINIMUM OF 50 FT. FROM RAILROAD RIGHT OF WAY AND OFF RAILROAD RIGHT OF WAY.

EXISTING PIPE CULVERT SIZES ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.

PIPE ELEVATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS.

CONTRACTOR SHALL MAINTAIN STORM SEWER CAPACITY EQUIVALENT TO THE EXISTING STORM SEWER SYSTEM WITHIN THE PROJECT LIMITS DURING RAIN EVENTS AND AT THE END OF THE DAY.

A SAWED JOINT SHALL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE UNLESS EXISTING CONCRETE OR ASPHALT CAN BE REMOVED WITHOUT DAMAGING PAVEMENT TO REMAIN IN PLACE.

EXISTING UTILITIES SHOWN ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS AND FIELD MEASUREMENTS. CONTRACTOR SHALL CONTACT DIGGERS HOTLINE FOR UTILITY LOCATES AND SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS OF THE UTILITY MAINS AND SERVICES DURING CONSTRUCTION.

CONTRACTOR SHALL CHECK BETWEEN ALL BENCHMARKS AND CONTROL POINTS TO CONFIRM ELEVATIONS PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL ESTABLISH ADDITIONAL BENCHMARKS AND CONTROL POINTS AS NECESSARY TO COMPLETE THE WORK. CONTRACTOR IS ENCOURAGED TO CHECK BENCHMARKS AND CONTROL POINTS PERIODICALLY FOR MOVEMENT.

CONTRACTOR SHALL PROTECT ALL CONTROL POINTS NOT DIRECTLY IN THE CONSTRUCTION AREA.

CONTRACTOR SHALL PROTECT ALL PROPERTY IRONS.

CONTRACTOR SHALL PROOFROLL PROPOSED SUBGRADE. WHERE PROOFROLLING INDICATES RUTTING/DEFLECTION, EBS IS RECOMMENDED PER THE PROJECT GEOTECHNICAL REPORT. EBS LIMITS AND FILL MATERIAL TO BE DETERMINED BY ENGINEER AND GEOTECHNICAL ENGINEER DURING CONSTRUCTION.

ASPHALTIC PAVEMENT SUMMARY

CTH PP / INDIANA AVENUE		
UPPER LAYER	2.5"	4 MT 58-28 H
LOWER LAYER	3.5"	3 MT 58-28 S

SECTION 2 ORDER OF SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
CURB RAMP DETAILS
PLAN DETAILS
PAVING GRADES
INTERSECTION DETAILS
EROSION CONTROL
STORM SEWER
UTILITY PLAN
WATER MAIN PLAN
PERMANENT SIGNING
LIGHTING PLAN
TEMPORARY TRAFFIC SIGNAL PLAN
TRAFFIC SIGNAL REMOVAL PLAN
TRAFFIC SIGNAL PLAN
PAVEMENT MARKING
TRAFFIC CONTROL
DETOUR
ALIGNMENT DATA
CONTROL POINT

UTILITY CONTACTS

* ALLIANT ENERGY - ELECTRIC
BEN REISEN
4902 N BILTMORE LANE
MADISON, WI 53718
PH: (608) 458-4871
BENREISEN@ALLIANTENERGY.COM

* AT&T - TELEPHONE
VICTORIA KASSAB
205 S JEFFERSON STREET
GREEN BAY, WI 54301
PH: (920) 401-7512
VK352K@ATT.COM

* CHARTER COMMUNICATIONS / SPECTRUM
RON MUELLER
1515 WASHINGTON DRIVE
WEST BEND, WI 53095
PH: (262) 429-9889
RONALD.MUELLER@CHARTER.COM

* CITY OF SHEBOYGAN - SANITARY
KEVIN JUMP
2026 NEW JERSEY AVENUE
SHEBOYGAN, WI 53081
PH: (920) 459-3367
KEVIN.JUMP@SHEBOYGANWI.GOV

* EXTENET SYSTEMS
KOJI BJERKE
3030 WARRENVILLE ROAD
LISLE, IL 60532
PH: (630) 245-2075
BBJERKE@EXTENETSYSTEMS.COM

* SHEBOYGAN WATER UTILITY
DAVE MCMILLAN
72 PARK AVENUE
SHEBOYGAN, WI 53081
PH: (920) 459-3839
DAVEMCMILLAN@SHEBOYGANWATER.ORG

* WINDSTREAM KDL, INC.
LORI S. KETTER
314 N. DANZ AVENUE
GREEN BAY,, WI 54302-3526
PH: (414) 274-9215
LORI.KETTER@WINDSTREAM.COM

* WISCONSIN PUBLIC SERVICE - NATURAL GAS
NICK WILBERT
933 S. WILDWOOD AVENUE
SHEBOYGAN, WI 53081
PH: (920) 451-3733
NICHOLAS.WILBERT@
WISCONSINPUBLICSERVICE.COM

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

*DENOTES DIGGERS HOTLINE MEMBER

OTHER CONTACTS

WISDOT REGION CONTACT
TIMOTHY VERHAGEN, P.E.
WISDOT NORTHEAST REGION LOCAL PROGRAM
944 VANDERPERREN WAY
GREEN BAY, WI 54304
PH: (920) 362-1267
timothy.verhagen@dot.wi.gov

DESIGN CONSULTANT
ASHLEY PRIDEMORE, P.E.
STRAND ASSOCIATES, INC.
126 N. JEFFERSON ST. SUITE 350
MILWAUKEE, WI 53202
PH: (414) 271-0771
ashley.pridemore@strand.com

SHEBOYGAN COUNTY
AARON BRAULT
DIRECTOR
PLANNING AND CONSERVATION
508 NEW YORK AVENUE
SHEBOYGAN, WI 53081
PH: (920) 459-3060
aaron.brault@sheboygancounty.com

SHEBOYGAN COUNTY
GREG SCHNELL
DIRECTOR
TRANSPORTATION
W5741 CTH J
PLYMOUTH, WI 53073
PH: (920) 459-3822
greg.schnell@sheboygancounty.com

WISDNR CONTACT
JEREMIAH SCHIEFELBEIN
DNR NE REGIONAL HQ
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
PH: (920) 360-3784
jeremiah.schiefelbein@wisconsin.gov

CITY OF SHEBOYGAN
RYAN SAZAMA
CITY ENGINEER
2026 NEW JERSEY AVENUE
SHEBOYGAN, WI 53081
PH: (920) 459-3485
ryan.sazama@sheboyganwi.gov

SHORELINE METRO
DEREK MUENCH
DIRECTOR
TRANSIT & PARKING
608 S COMMERCE STREET
SHEBOYGAN, WI 53081
PH: (920) 459-3140
derek.muench@shorelinemetro.com

TOWN OF SHEBOYGAN
WILLIAM BLASHKA
1512 N. 40TH STREET
SHEBOYGAN, WI 53081
PH: (920) 451-2320
WILLIAM@TOWNOFSHEBOYGAN.ORG

2

BEGIN PROJECT
STA. 9+43.27
X = 209,498.45
Y = 172,918.97

BEGIN CONSTRUCTION
STA. 6+16.42

5+00

CITY OF
SHEBOYGAN

10+00

B-59-48 (TO REMAIN)

SHEBOYGAN RIVER

SOUTH TAYLOR DRIVE

110+00 TA

END CONSTRUCTION
STA. 109+25.94 TA

C-59-36-70 (TO REMAIN)

CTH PP / INDIANA AVENUE

115+00

204.00

MATCHLINE 28+00

105+00 TA

BEGIN CONSTRUCTION
STA. 106+02.62 TA

N

2

END PROJECT
STA. 42+77.71

45+00

SHEBOYGAN RIVER

END CONSTRUCTION
STA. 44+27.91

S 24TH STREET

BEGIN CONSTRUCTION
STA. 10+50.00 A

CTH PP / INDIANA AVENUE

35+00

30+00

MATCHLINE 28+00

CITY OF
SHEBOYGAN

CITY OF
SHEBOYGAN

N

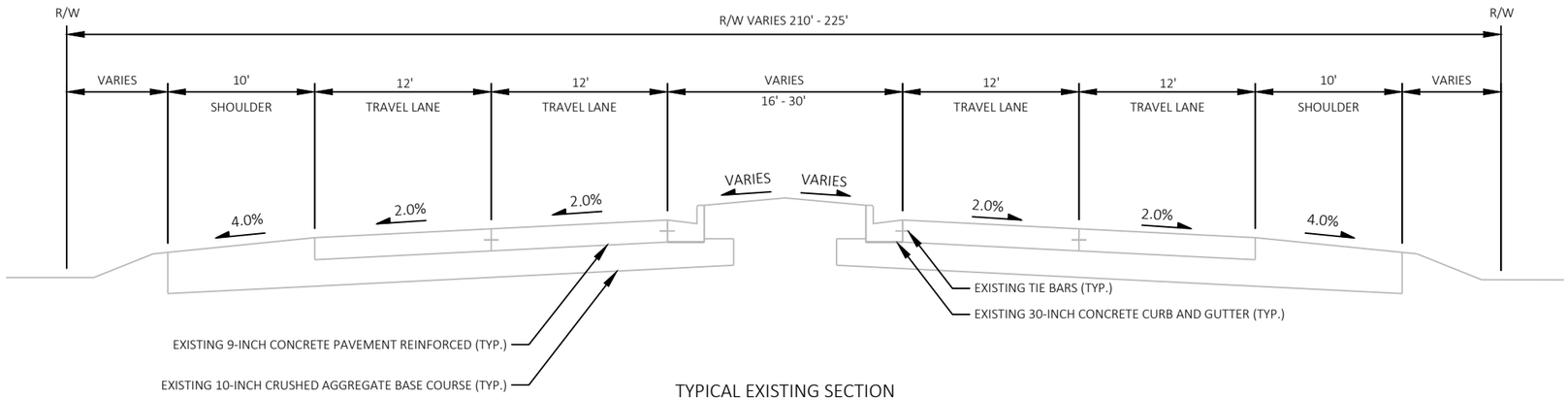
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\020201_PO.DWG
LAYOUT NAME - 020201_po

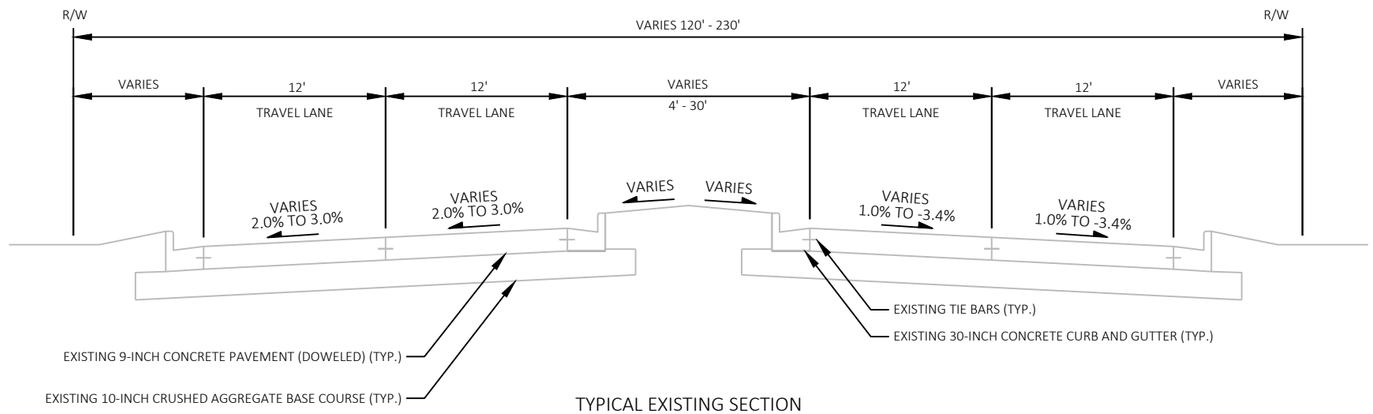
PLOT DATE : 9/27/2021 8:50 AM PLOT BY : ANDERSON, ERIC PLOT NAME :

WISDOT/CADDS SHEET 42

2

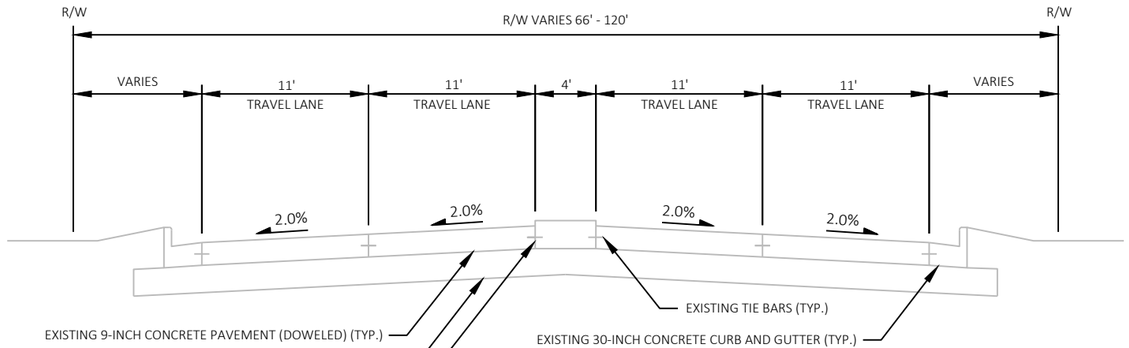


TYPICAL EXISTING SECTION
INDIANA AVE
STA. 9+43.27 TO 11+42.17
STA. 13+70.37 TO 15+97.72

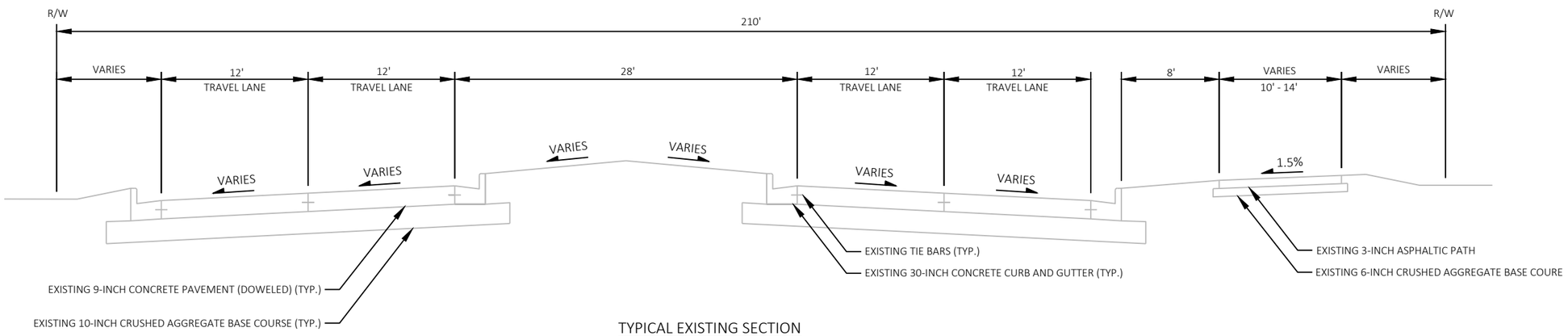


TYPICAL EXISTING SECTION
INDIANA AVE
STA. 15+97.72 TO STA. 26+35.02

2

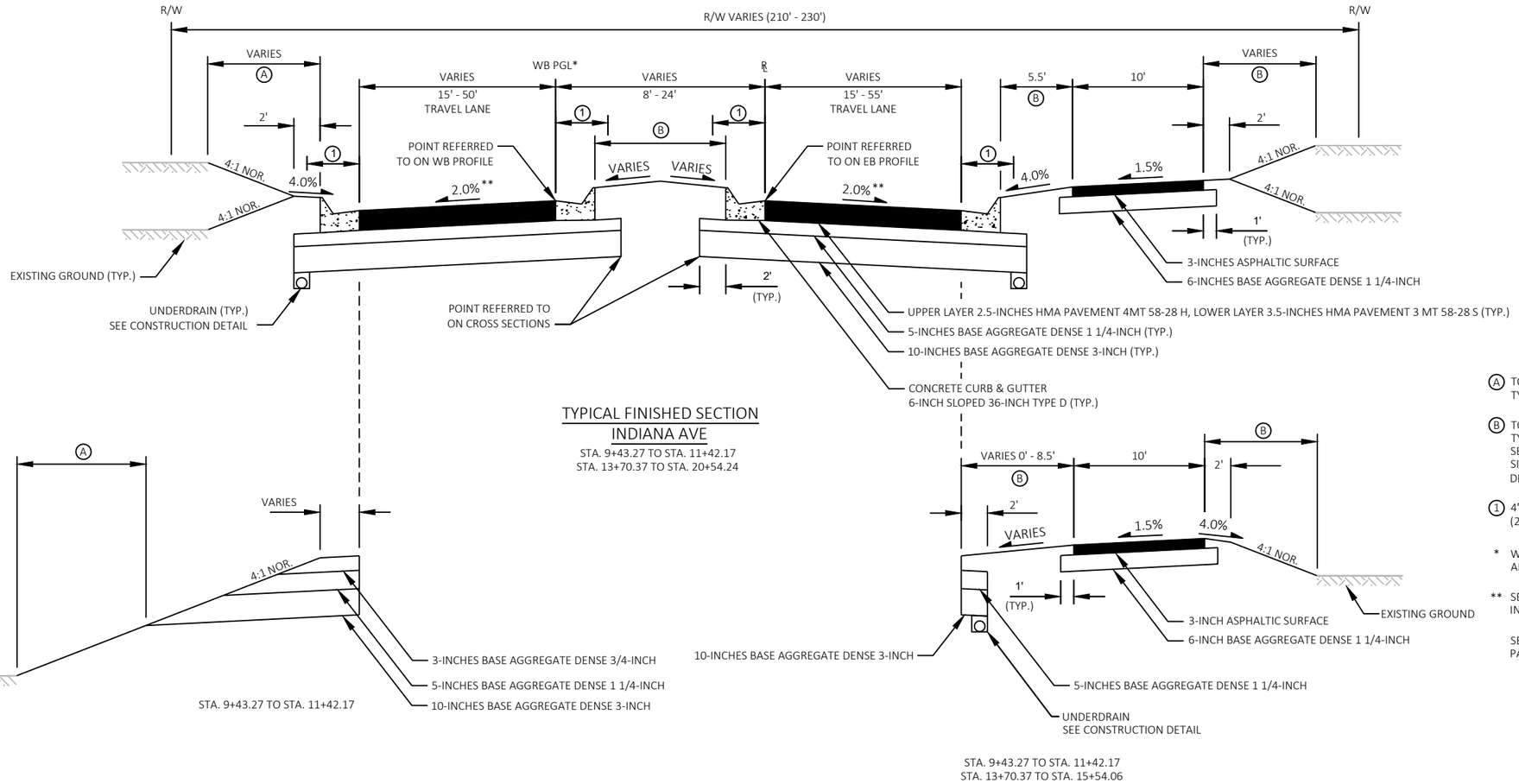


TYPICAL EXISTING SECTION
INDIANA AVE
STA. 26+35.02 TO STA. 42+77.71



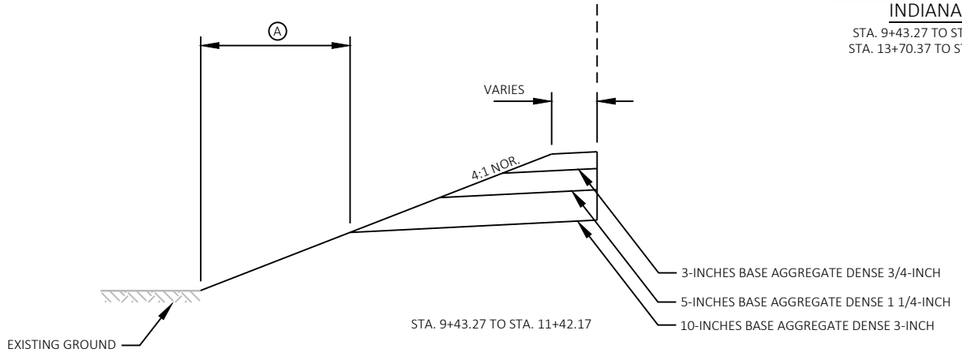
TYPICAL EXISTING SECTION
S TAYLOR DRIVE
STA. 106+02.62 TO STA. 108+68.42

2



TYPICAL FINISHED SECTION
INDIANA AVE

STA. 9+43.27 TO STA. 11+42.17
STA. 13+70.37 TO STA. 20+54.24



STA. 9+43.27 TO STA. 11+42.17

STA. 9+43.27 TO STA. 11+42.17
STA. 13+70.37 TO STA. 15+54.06

(A) TOPSOIL, SEEDING MIXTURE NO. 30, FERTILIZER TYPE B, AND EROSION MAT CLASS 1 TYPE B

(B) TOPSOIL, SEEDING MIXTURE NO. 30, FERTILIZER TYPE B, AND EROSION MAT URBAN CLASS 1 TYPE B. SEE PLAN DETAILS FOR AREAS WHERE CONCRETE SIDEWALK 5-INCH OVER 4-INCH BASE AGGREGATE DENSE 1 1/4-INCH IS REQUIRED IN MEDIAN.

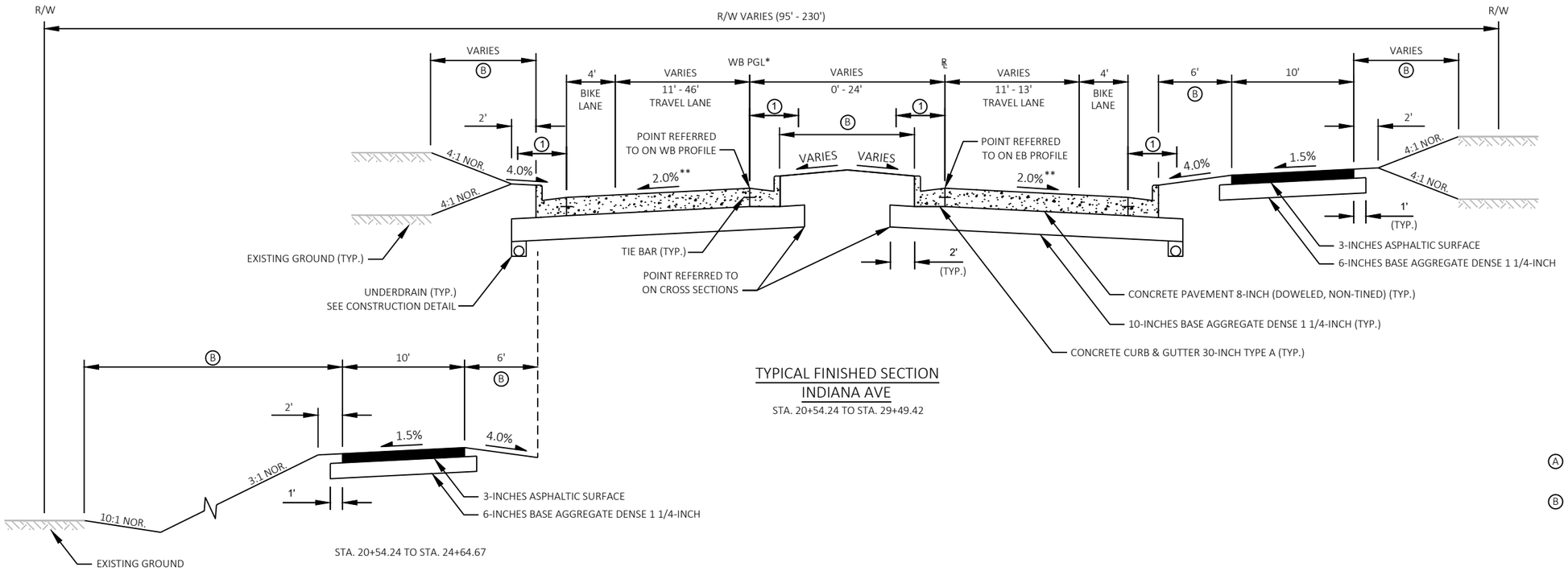
(1) 4' LATERAL CLEARANCE MIN. (2' BEYOND FACE OF CURB).

* WB PGL USED BETWEEN STA. 9+43.27 AND STA. 29+49.42

** SEE PAVING GRADES FOR SUPERELEVATION INFORMATION

SEE PLAN DETAILS FOR LIMITS OF CONCRETE PAVEMENT APPROACH SLAB.

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SHEET 6	E



TYPICAL FINISHED SECTION
INDIANA AVE
STA. 20+54.24 TO STA. 29+49.42

STA. 20+54.24 TO STA. 24+64.67

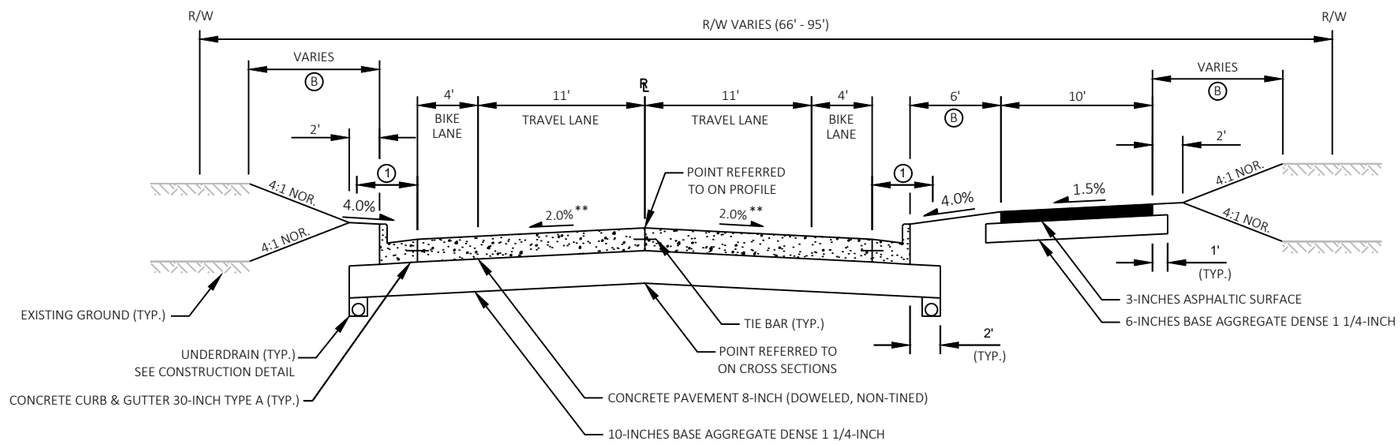
Ⓐ TOPSOIL, SEEDING MIXTURE NO. 30, FERTILIZER TYPE B, AND EROSION MAT CLASS 1 TYPE B

Ⓑ TOPSOIL, SEEDING MIXTURE NO. 30, FERTILIZER TYPE B, AND EROSION MAT URBAN CLASS 1 TYPE B. SEE PLAN DETAILS FOR AREAS WHERE CONCRETE SIDEWALK 5-INCH OVER 4-INCH BASE AGGREGATE DENSE 1 1/4-INCH IS REQUIRED IN MEDIAN.

* WB PGL USED BETWEEN STA. 9+43.27 AND STA. 29+49.42

** SEE PAVING GRADES FOR SUPERELEVATION INFORMATION

① 4' LATERAL CLEARANCE MIN. (2' BEYOND FACE OF CURB).

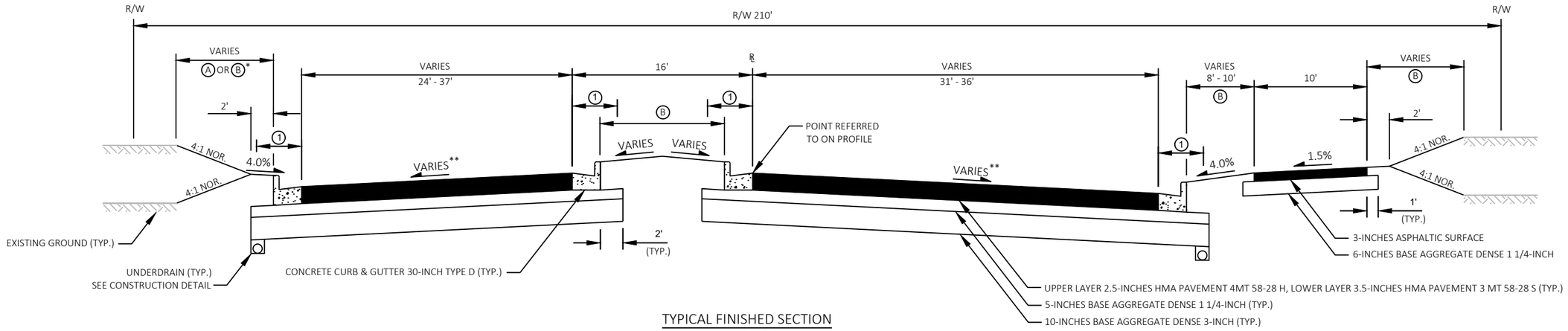


TYPICAL FINISHED SECTION
INDIANA AVE
STA. 29+49.42 TO STA. 42+77.71

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SHEET 7	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\020301_TS.DWG
LAYOUT NAME - 020304_ts
PLOT DATE : 9/24/2021 8:47 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :

2



TYPICAL FINISHED SECTION
S TAYLOR DRIVE

STA. 106+02.62 TO STA. 108+68.42

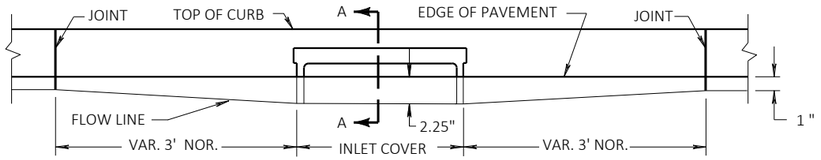
(A) TOPSOIL, SEEDING MIXTURE NO. 30, FERTILIZER TYPE B, AND EROSION MAT CLASS 1 TYPE B

(B) TOPSOIL, SEEDING MIXTURE NO. 30, FERTILIZER TYPE B, AND EROSION MAT URBAN CLASS 1 TYPE B. SEE PLAN DETAILS FOR AREAS WHERE CONCRETE SIDEWALK 5-INCH OVER 4-INCH BASE AGGREGATE DENSE 1 1/4-INCH IS REQUIRED IN MEDIAN.

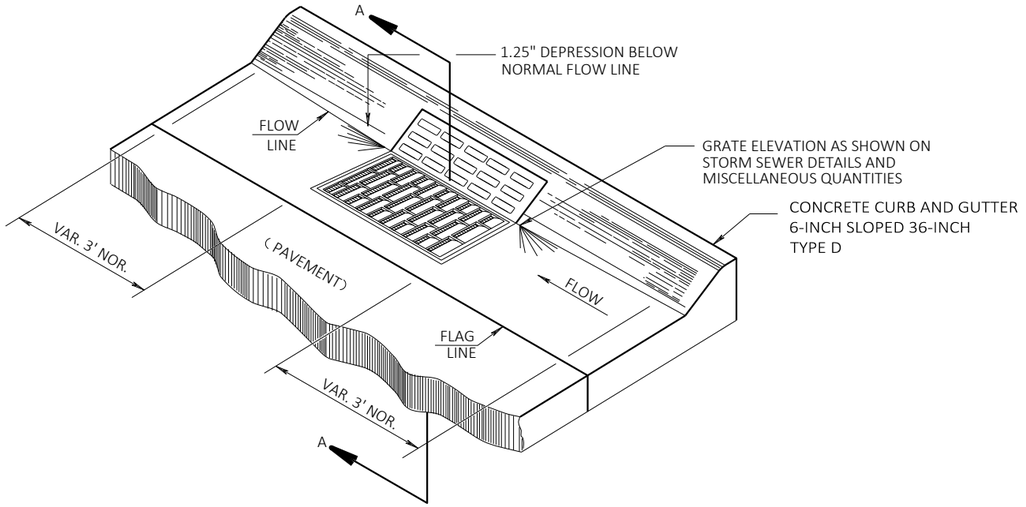
(1) 4' LATERAL CLEARANCE MIN. (2' BEYOND FACE OF CURB).

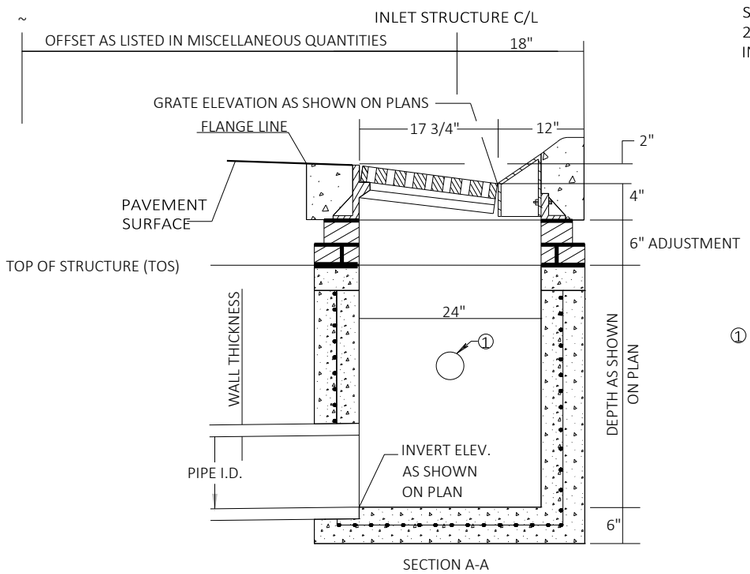
* SEE EROSION CONTROL PLANS FOR LOCATIONS

** SEE INTERSECTION DETAILS FOR PAVEMENT CROSS SLOPE INFORMATION



ELEVATION





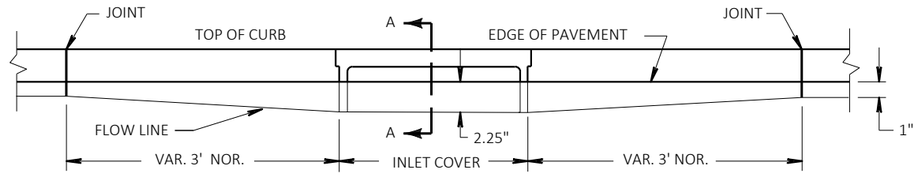
SECTION A-A

(INLET 2X3-FT WITH COVERS TYPE HM SHOWN)

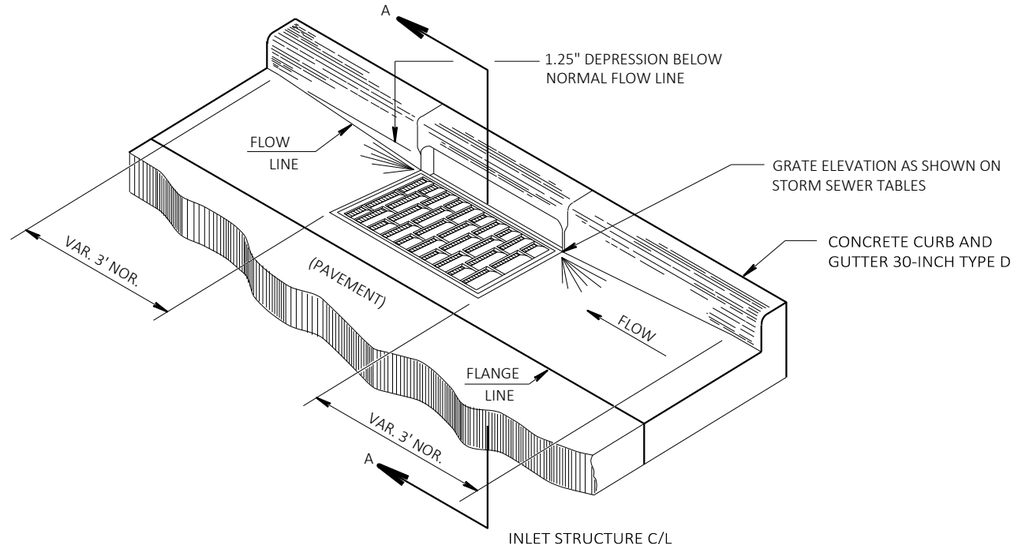
SEE S.D.D. "INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, 2.5X3-FT" FOR ADDITIONAL INFORMATION

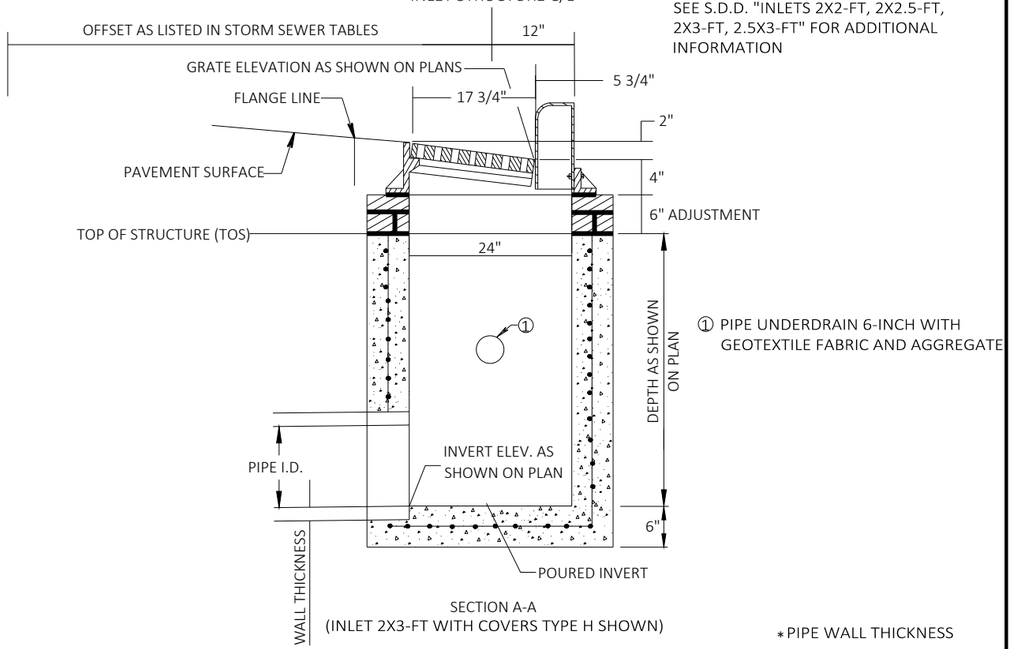
① PIPE UNDERDRAIN 6-INCH WITH GEOTEXTILE FABRIC AND AGGREGATE

DETAIL OF CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D AT INLETS



ELEVATION





SECTION A-A

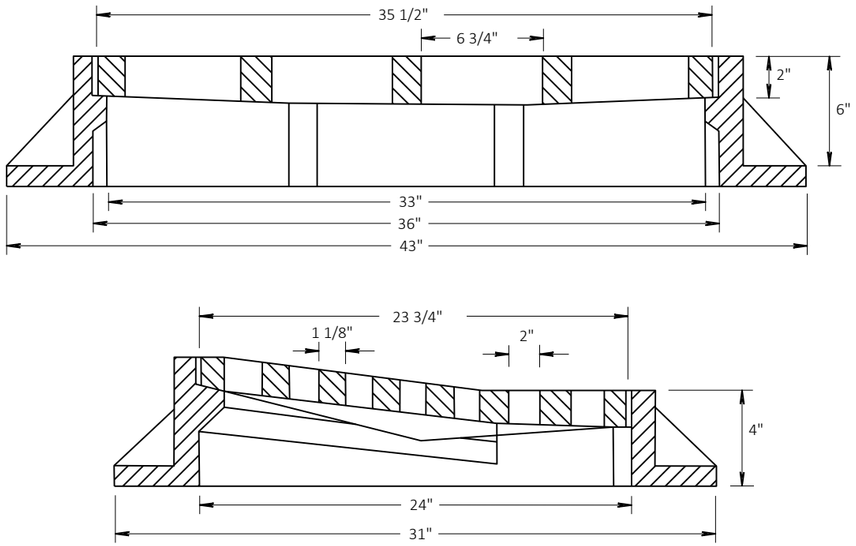
(INLET 2X3-FT WITH COVERS TYPE H SHOWN)

SEE S.D.D. "INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, 2.5X3-FT" FOR ADDITIONAL INFORMATION

① PIPE UNDERDRAIN 6-INCH WITH GEOTEXTILE FABRIC AND AGGREGATE

*PIPE WALL THICKNESS

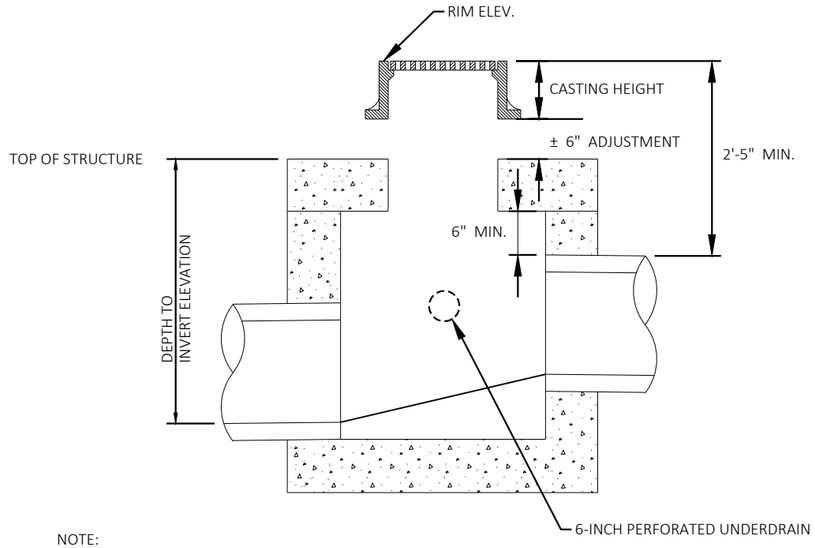
DETAIL OF CONCRETE CURB AND GUTTER 30-INCH TYPE D AT INLETS



TOTAL WEIGHT APPROXIMATELY 420 POUNDS

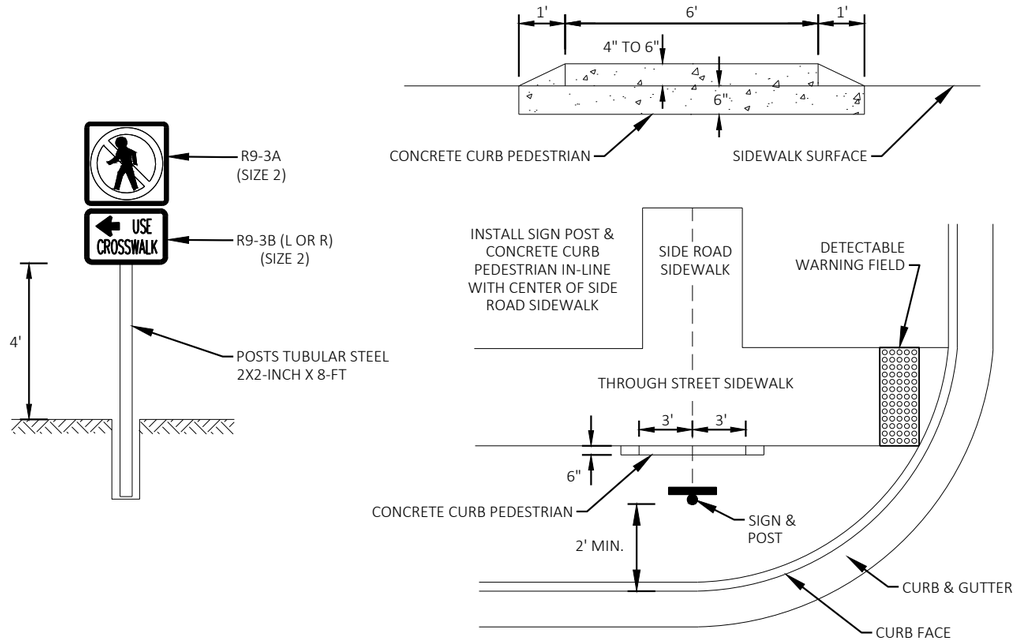
INLET COVERS TYPE DW SPECIAL

NOT TO SCALE



NOTE:
RIM ELEVATION IS AT FLOW LINE FOR INLETS

DETAIL FOR COMPUTING STRUCTURE ELEVATIONS

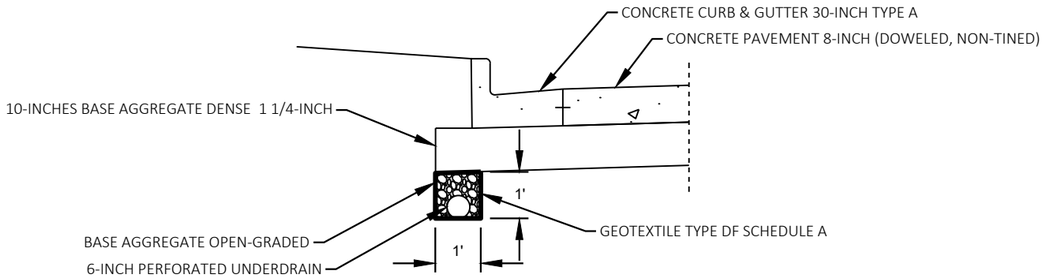


CROSSWALK CLOSURE DETAIL
LOCATION: STA. 42+08 RT

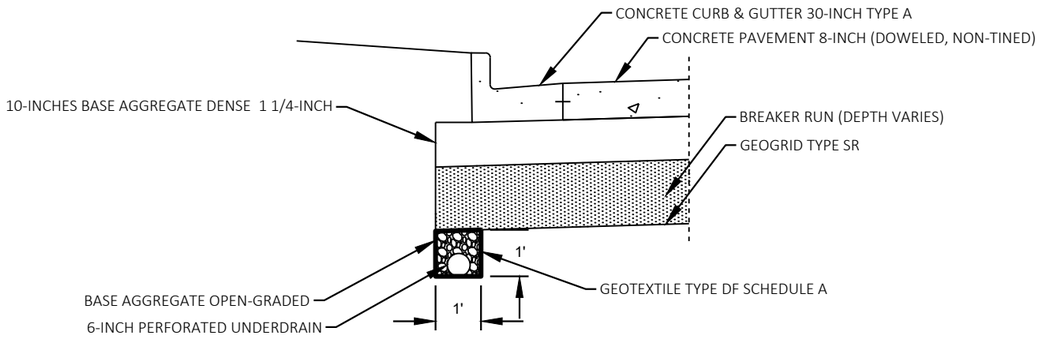
RUNOFF COEFFICIENT TABLE

	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 AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 7.70 ACRES

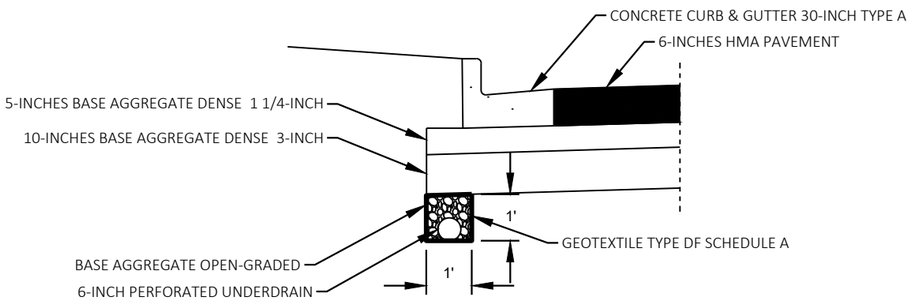


SECTION A - A

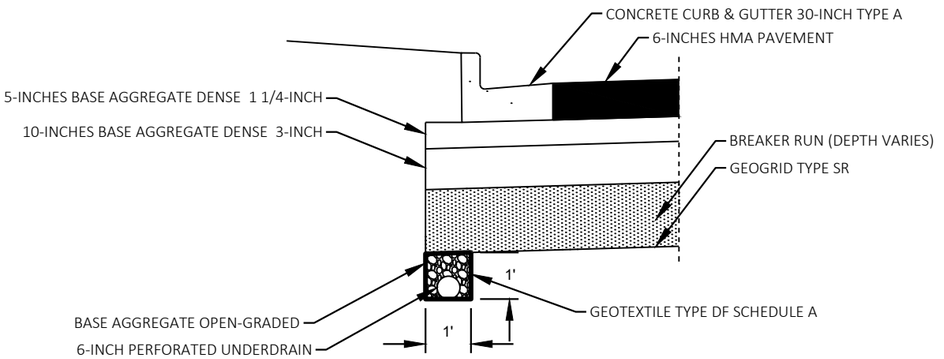


SECTION A - A - WITH BREAKER RUN

NOTE: IF A PROOF ROLL SECTION HAS FAILED, INSTALL GEOGRID AND BREAKER RUN AS DIRECTED BY THE ENGINEER IN THE FIELD. DRAIN TO NEAREST INLET IF NOT LOCATED AT A LOW POINT.

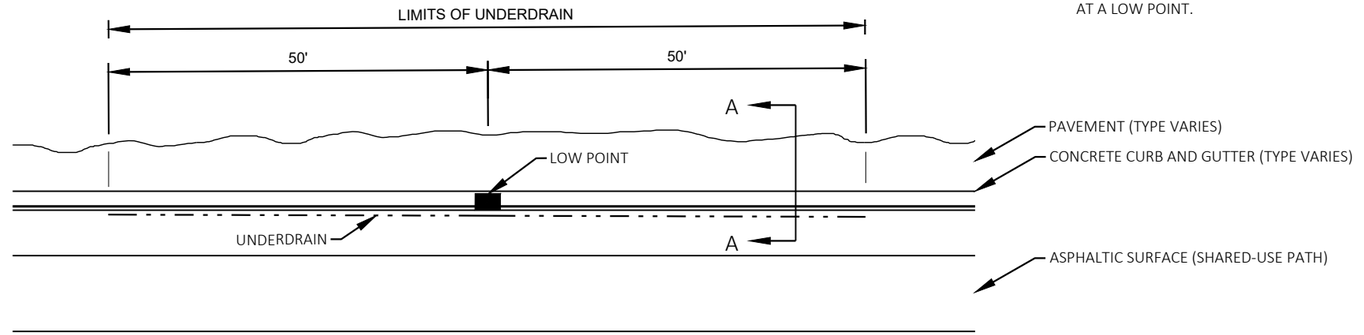


SECTION A - A



SECTION A - A - WITH BREAKER RUN

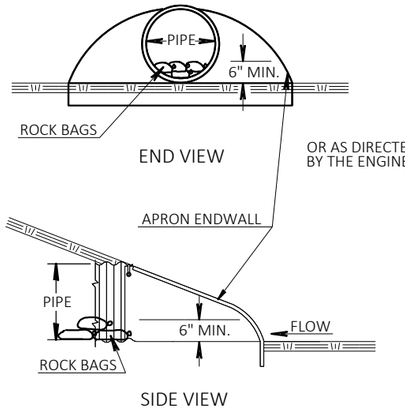
NOTE: IF A PROOF ROLL SECTION HAS FAILED, INSTALL GEOGRID AND BREAKER RUN AS DIRECTED BY THE ENGINEER IN THE FIELD. DRAIN TO NEAREST INLET IF NOT LOCATED AT A LOW POINT.



PLAN VIEW

UNDERDRAIN UNDER OUTSIDE CURB & GUTTER DETAILS

LOCATION: AT LOW POINTS, SEE PAVING GRADES FOR LOW POINT INFORMATION

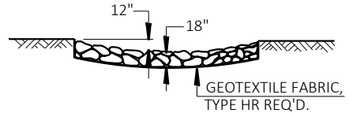


OR AS DIRECTED BY THE ENGINEER

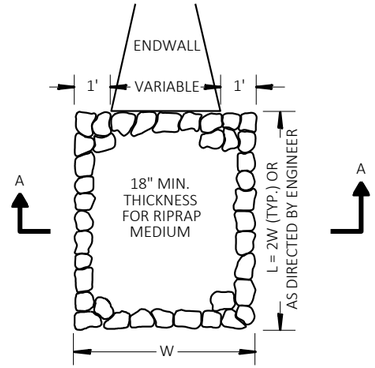
ESTIMATED BAG SIZE = 18" X 12" X 6"	
PIPE SIZE	ESTIMATED NO. OF BAGS
12"	1
18"	2
24"	3
30"	5
48"	10
54"	10
60"	13
72"	16

CULVERT PIPE CHECKS

(PAID FOR AS ROCK BAGS)
SEE EROSION CONTROL SHEETS FOR LOCATIONS

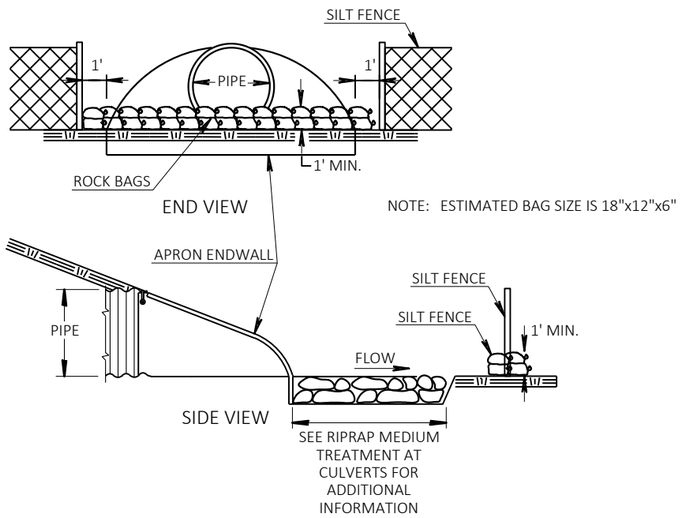


SECTION A-A



RIPRAP MEDIUM TREATMENT AT STORM SEWER OUTFALLS AND ASPHALTIC FLUMES

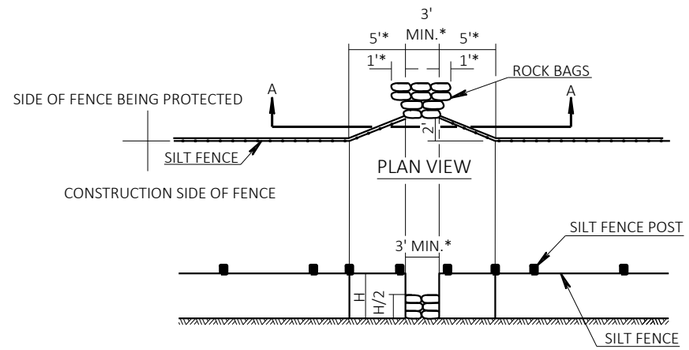
SEE EROSION CONTROL SHEETS FOR LOCATIONS



NOTE: ESTIMATED BAG SIZE IS 18"x12"x6"

ROCK BAGS FOR CULVERT AND FLUME OUTFALLS WITH SILT FENCE

SEE EROSION CONTROL SHEETS FOR LOCATIONS



SECTION A-A (ELEVATION VIEW)

NOTE:

* = DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY ENGINEER
H = HEIGHT OF SILT FENCE

SILT FENCE DRAINAGE RELIEF DETAIL

SEE EROSION CONTROL SHEETS FOR LOCATIONS

2

2

N

WV

POST

UT

BEGIN PROJECT
STA. 9+43.27

CTH PP / INDIANA AVENUE

4+00

5+00

6+00

7+00

8+00

9+00

MATCHLINE 9+50

BEGIN CONSTRUCTION
STA. 6+16.42

FUNDING CATEGORY LEGEND

LOCATION OF CATEGORY 0010 ITEMS

LOCATION OF CATEGORY 0020 ITEMS

NOTE:

FOR INFORMATION PURPOSES ONLY.
SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.

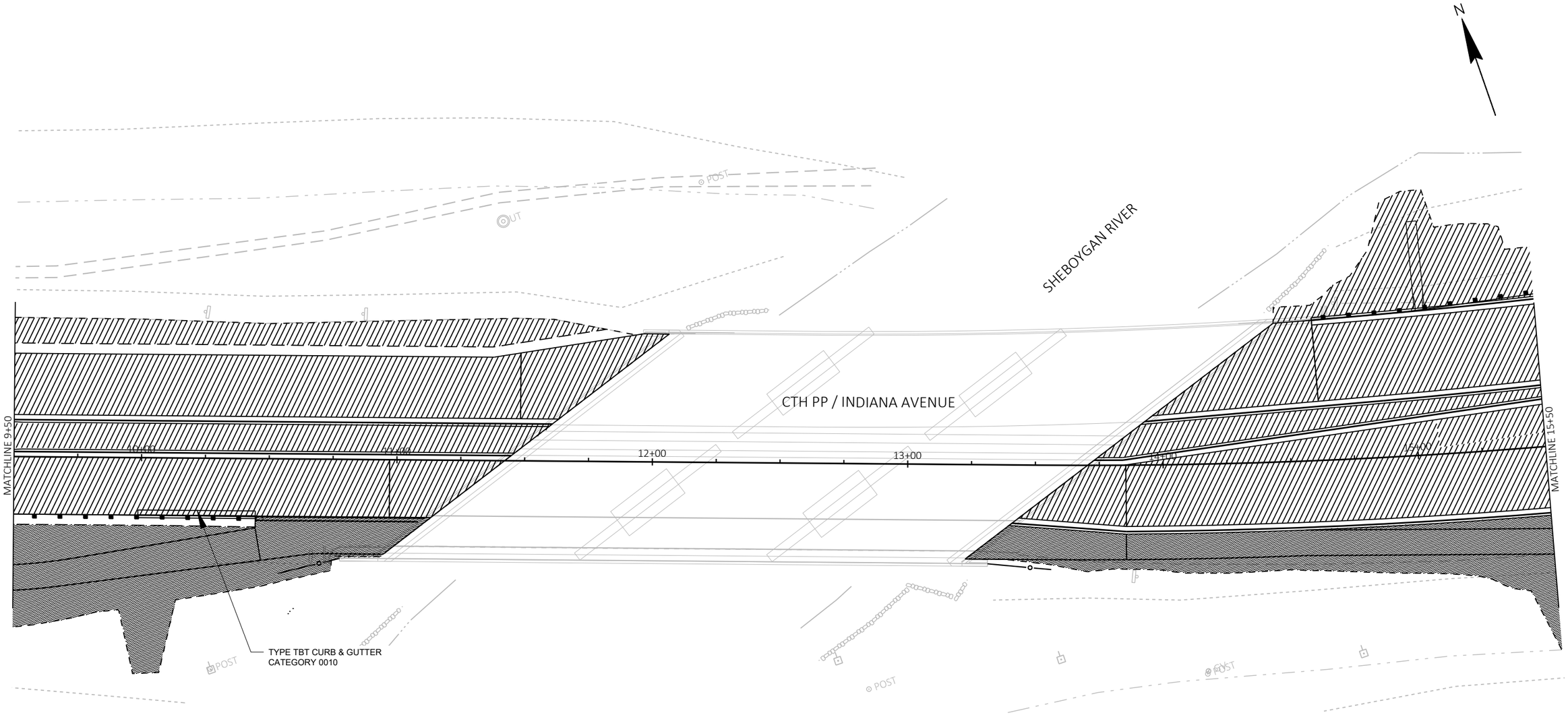
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS - FUNDING CATEGORY INFORMATION	SHEET 13	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSOTHER\FUNDING EXHIBIT.DWG
LAYOUT NAME - 022001

PLOT DATE : 9/28/2021 7:41 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



FUNDING CATEGORY LEGEND

- LOCATION OF CATEGORY 0010 ITEMS
- LOCATION OF CATEGORY 0020 ITEMS

NOTE:

FOR INFORMATION PURPOSES ONLY.
SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS - FUNDING CATEGORY INFORMATION	SHEET 14	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSOTHER\FUNDING EXHIBIT.DWG
LAYOUT NAME - 022002

PLOT DATE : 9/28/2021 7:41 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

END CONSTRUCTION
STA. 109+25.94 TA

N

SOUTH TAYLOR DRIVE

109+00 TA

MAINLINE OUTSIDE CURB &
GUTTER EAST OF STA. 20+54
CATEGORY 0010

CTH PP / INDIANA AVENUE

108+00 TA

MATCHLINE 15+50

MATCHLINE 21+50

15+00 16+00 17+00 18+00 19+00 20+00 21+00

ALL MAINLINE OUTSIDE CURB &
GUTTER EAST OF STA. 20+54
CATEGORY 0010

ALL CURB & GUTTER WEST OF STA. 20+54
CATEGORY 0020 UNLESS OTHERWISE NOTED.

107+00 TA

106+62.62 TA

BEGIN CONSTRUCTION
STA. 106+02.62 TA

FUNDING CATEGORY LEGEND

LOCATION OF CATEGORY 0010 ITEMS

LOCATION OF CATEGORY 0020 ITEMS

NOTE:

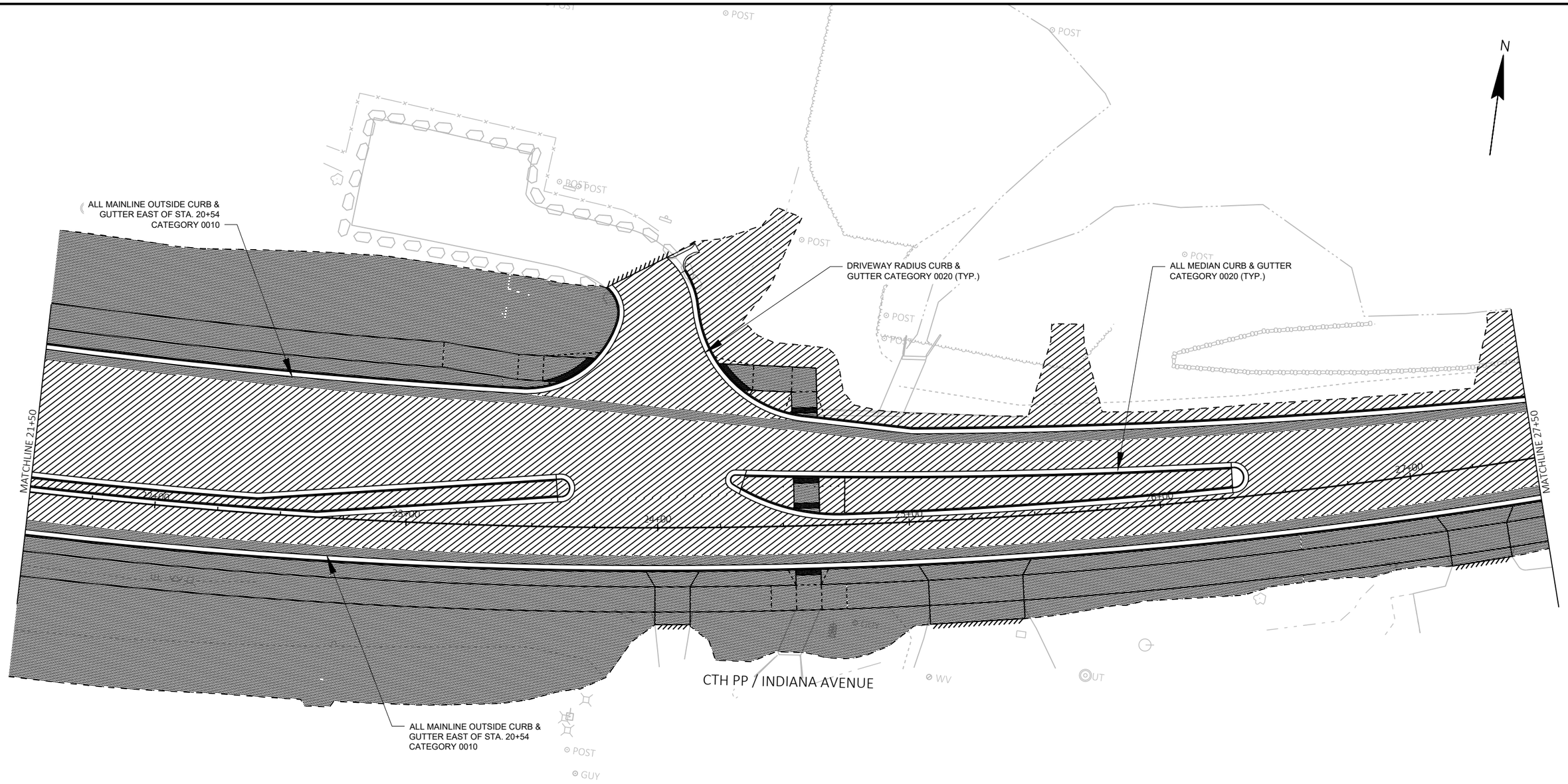
FOR INFORMATION PURPOSES ONLY.
SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS - FUNDING CATEGORY INFORMATION	SHEET 15	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSOTHER\FUNDING EXHIBIT.DWG
LAYOUT NAME - 022003

PLOT DATE : 9/28/2021 7:41 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



FUNDING CATEGORY LEGEND

- LOCATION OF CATEGORY 0010 ITEMS
- LOCATION OF CATEGORY 0020 ITEMS

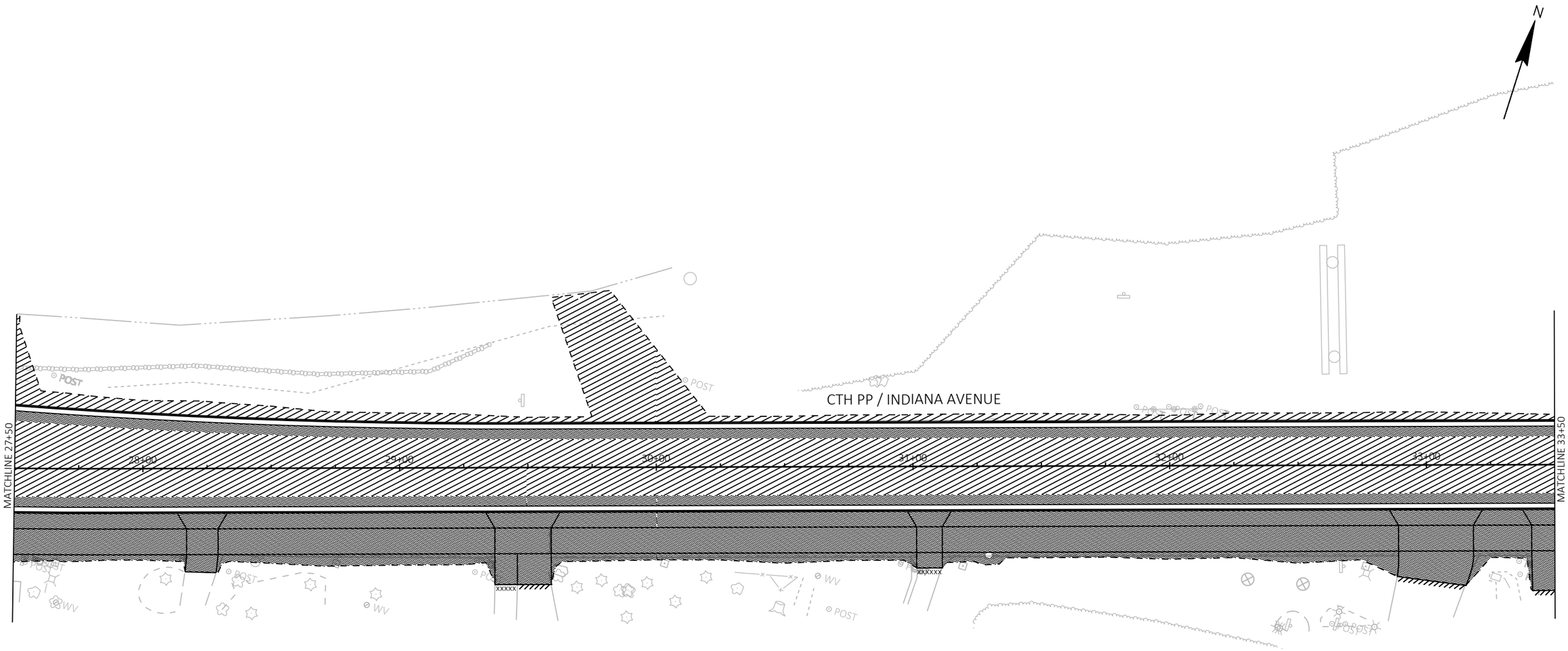
NOTE:

FOR INFORMATION PURPOSES ONLY.
SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS - FUNDING CATEGORY INFORMATION	SHEET 16	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSOTHER\FUNDING EXHIBIT.DWG
LAYOUT NAME - 022004
PLOT DATE : 9/28/2021 7:41 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



NOTE:

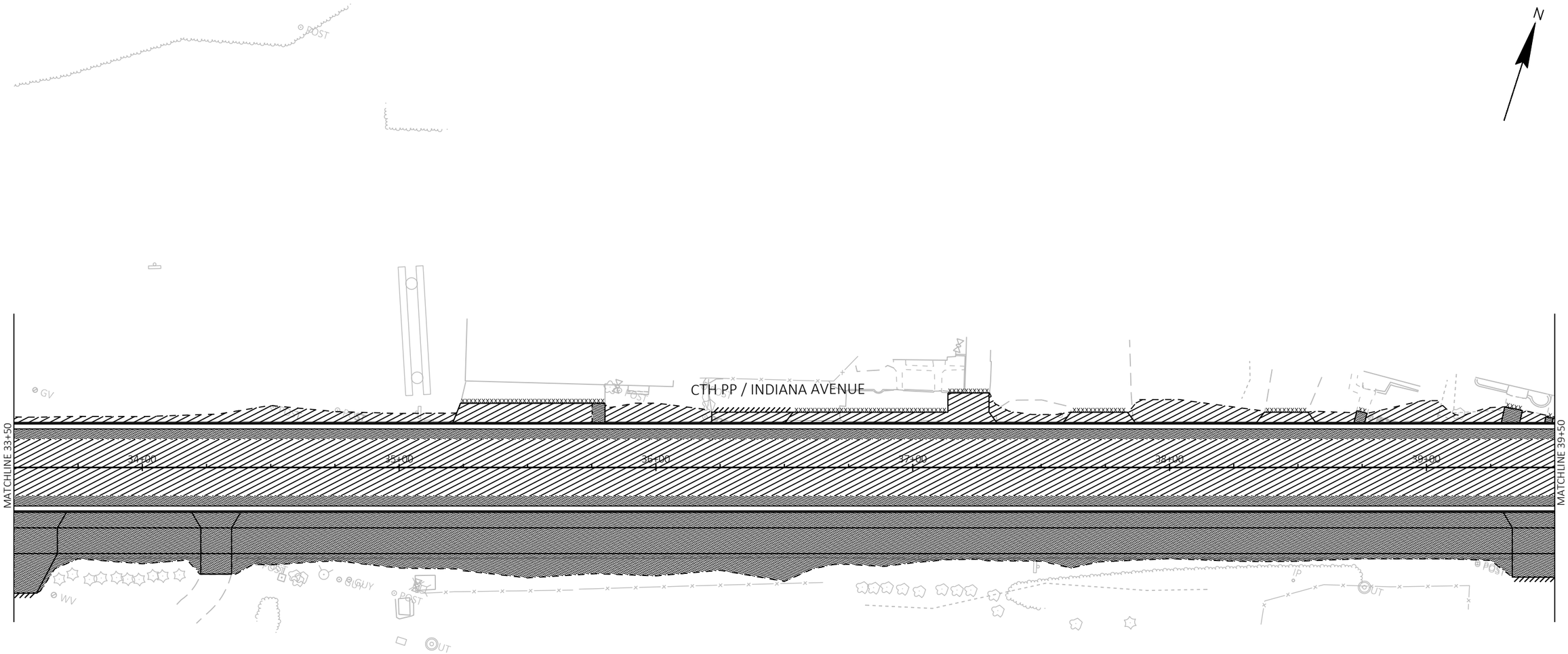
FOR INFORMATION PURPOSES ONLY.
SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.

FUNDING CATEGORY LEGEND

- LOCATION OF CATEGORY 0010 ITEMS
- LOCATION OF CATEGORY 0020 ITEMS

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS - FUNDING CATEGORY INFORMATION	SHEET 17	E

2



NOTE:

FOR INFORMATION PURPOSES ONLY.
SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.

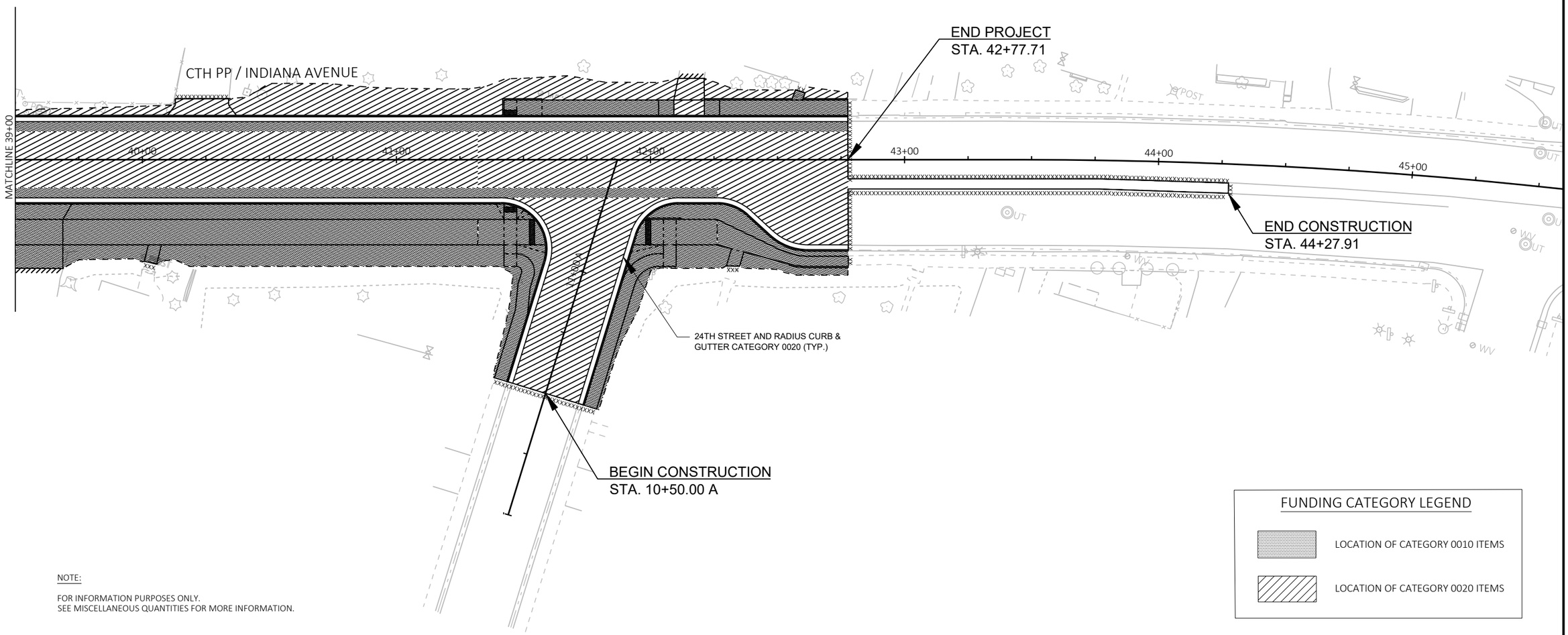
FUNDING CATEGORY LEGEND

- LOCATION OF CATEGORY 0010 ITEMS
- LOCATION OF CATEGORY 0020 ITEMS

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS - FUNDING CATEGORY INFORMATION	SHEET 18	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSOTHER\FUNDING EXHIBIT.DWG
LAYOUT NAME - 022006
PLOT DATE : 9/28/2021 7:41 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



NOTE:

FOR INFORMATION PURPOSES ONLY.
SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.

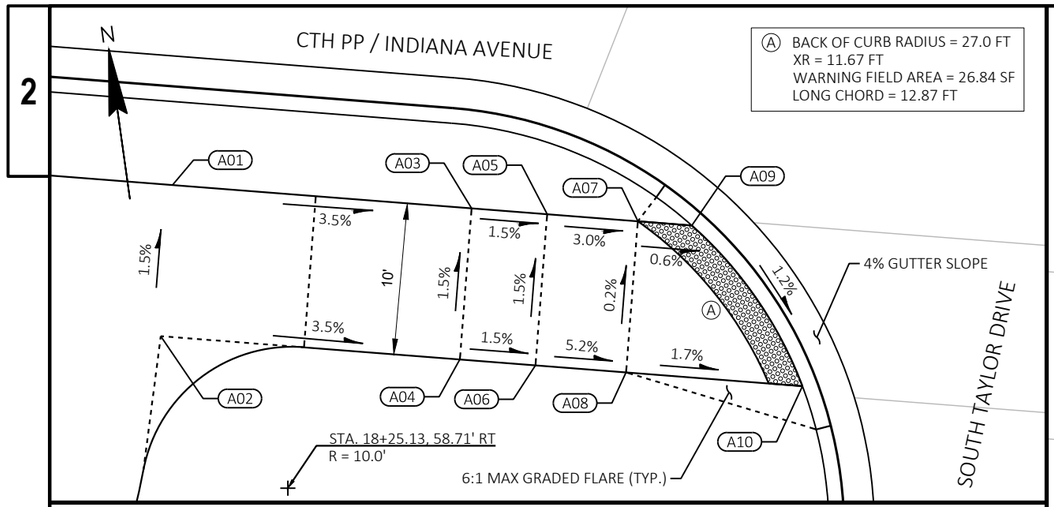
FUNDING CATEGORY LEGEND

- LOCATION OF CATEGORY 0010 ITEMS
- LOCATION OF CATEGORY 0020 ITEMS

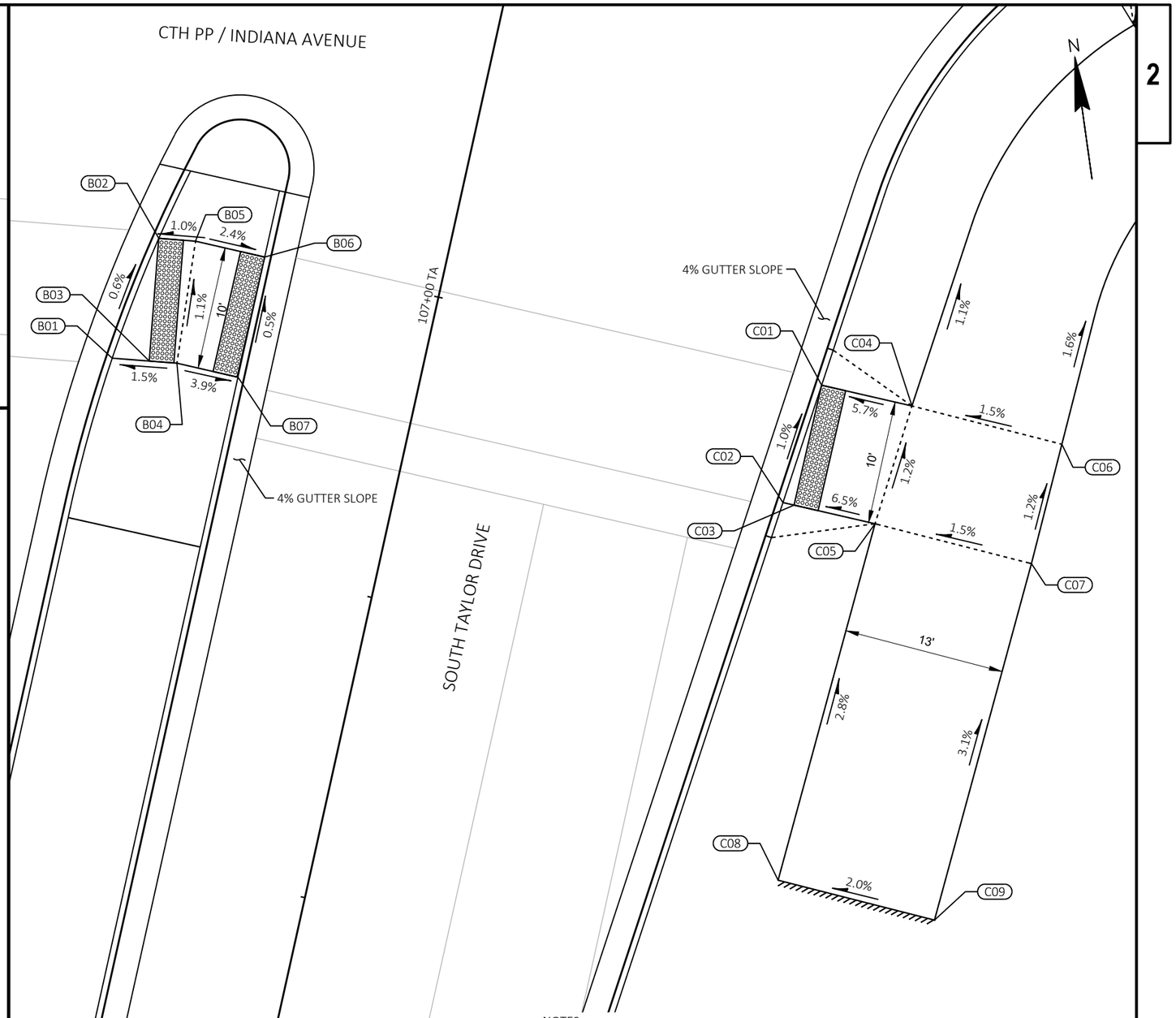
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS - FUNDING CATEGORY INFORMATION	SHEET 19	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSOTHER\FUNDING EXHIBIT.DWG
LAYOUT NAME - 022007

PLOT DATE : 9/28/2021 7:41 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT



CURB RAMP POINT TABLE						
POINT	STATION	OFFSET	Y	X	ELEVATION	REMARKS
A01	18+17.59	37.96' RT	172,634.53	210,330.06	598.21	
A02	18+16.76	47.93' RT	172,624.76	210,327.90	598.36	
A03	18+36.97	39.74' RT	172,630.27	210,349.39	597.51	
A04	18+36.05	49.70' RT	172,620.50	210,347.24	597.66	
A05	18+41.86	40.22' RT	172,629.19	210,354.27	597.44	
A06	18+40.91	50.17' RT	172,619.42	210,352.12	597.59	
A07	18+47.72	40.81' RT	172,627.90	210,360.13	597.26	
A08	18+46.75	50.76' RT	172,618.13	210,357.98	597.28	
A09	18+51.21	41.16' RT	172,627.13	210,363.62	597.24	BOC
A10	18+58.10	51.94' RT	172,615.62	210,369.38	597.08	BOC
B01	106+89.40 TA	-24.82' LT	172,606.38	210,411.26	597.02	BOC
B02	106+99.73 TA	-23.23' LT	172,615.50	210,416.37	596.96	BOC
B03	106+89.83 TA	-21.82' LT	172,605.73	210,414.22	597.07	
B04	106+90.14 TA	-19.59' LT	172,605.25	210,416.41	597.10	
B05	107+00.15 TA	-20.27' LT	172,614.86	210,419.29	596.99	
B06	107+00.11 TA	-14.50' LT	172,612.79	210,424.68	596.85	BOC
B07	106+90.11 TA	-14.50' LT	172,603.43	210,421.17	596.90	BOC
C01	106+99.78 TA	31.97' RT	172,596.19	210,468.08	596.76	BOC
C02	106+89.79 TA	30.97' RT	172,587.18	210,463.64	596.86	BOC
C03	106+89.78 TA	31.89' RT	172,586.85	210,464.51	596.87	
C04	106+99.73 TA	39.50' RT	172,593.50	210,475.11	597.19	
C05	106+89.73 TA	38.65' RT	172,584.44	210,470.81	597.31	
C06	106+99.34 TA	52.07' RT	172,588.72	210,486.76	597.38	
C07	106+89.33 TA	51.77' RT	172,579.46	210,482.96	597.50	
C08	106+59.74 TA	37.24' RT	172,556.84	210,458.98	598.16	MATCH EX.
C09	106+59.34 TA	50.36' RT	172,551.86	210,471.12	598.42	MATCH EX.



NOTES

1. CONTRACTOR TO FIELD VERIFY ELEVATIONS, GRADES, SLOPES, LENGTHS AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST CURB RAMP ELEVATIONS TO FIT FIELD CONDITIONS WITHIN THE REQUIREMENTS OF THE STANDARD DETAILS.
3. DASHED SIDEWALK JOINT LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT INDICATE EXACT JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.
5. ALL STATION AND OFFSET INFORMATION REFERENCES THE MAINLINE CTH PP ALIGNMENT UNLESS OTHERWISE SPECIFIED.

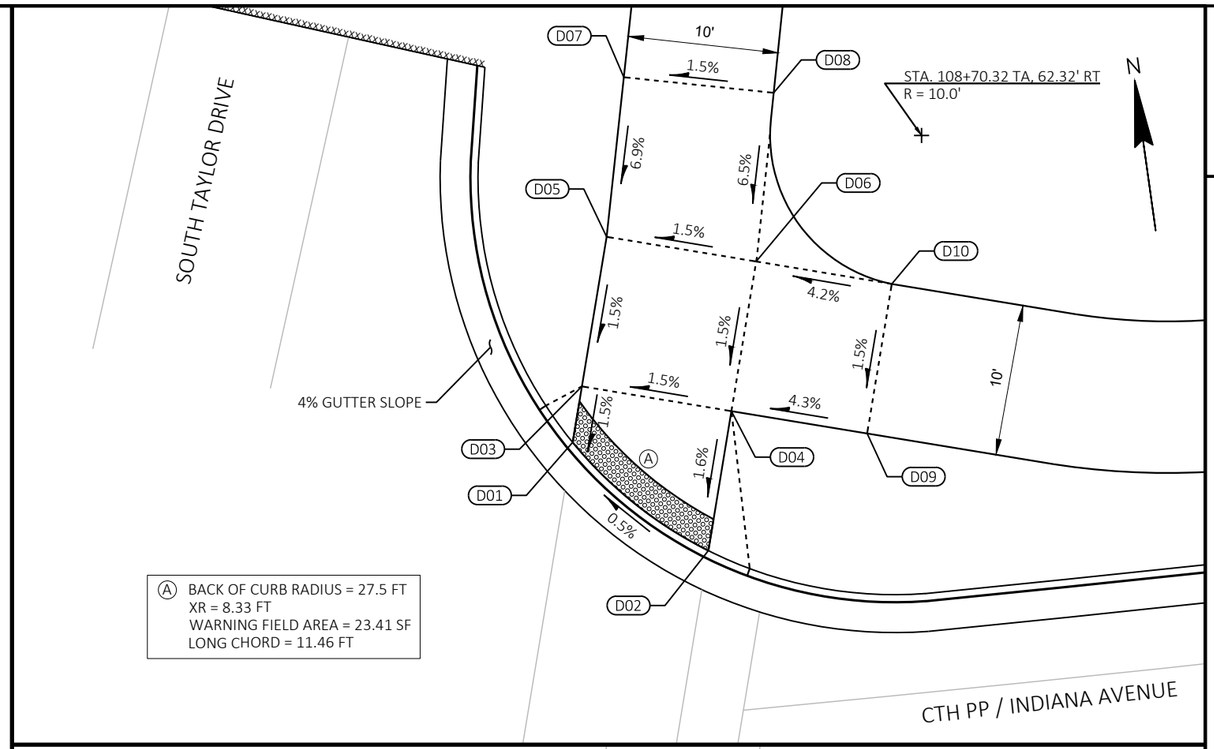
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CURB RAMP DETAILS	SHEET 20	E

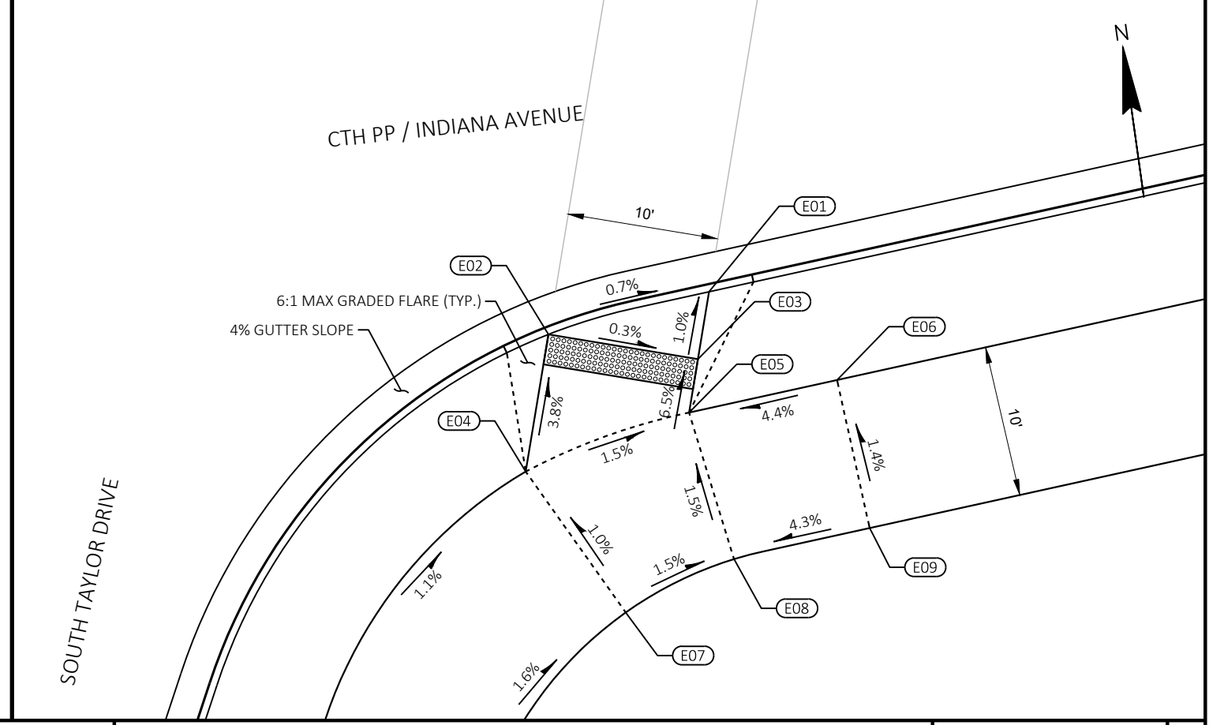
FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021301_CR.DWG
LAYOUT NAME - 021301_cr
PLOT DATE : 9/28/2021 7:11 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

CURB RAMP POINT TABLE						
POINT	STATION	OFFSET	Y	X	ELEVATION	REMARKS
D01	108+45.55 TA	44.24' RT	172,728.39	210,530.70	593.84	BOC
D02	108+40.52 TA	54.53' RT	172,720.07	210,538.57	593.90	BOC
D03	108+49.29 TA	44.04' RT	172,731.97	210,531.81	593.90	
D04	108+49.84 TA	54.02' RT	172,728.98	210,541.36	594.05	
D05	108+59.27 TA	43.49' RT	172,741.51	210,534.80	594.05	
D06	108+59.83 TA	53.47' RT	172,738.53	210,544.35	594.20	
D07	108+69.80 TA	42.31' RT	172,751.78	210,537.39	594.77	
D08	108+70.94 TA	52.18' RT	172,749.39	210,547.04	594.92	
D09	108+50.34 TA	63.09' RT	172,726.27	210,550.02	594.48	
D10	108+60.32 TA	62.53' RT	172,735.82	210,553.01	594.63	
E01	19+95.49	24.31' RT	172,631.72	210,510.91	596.37	BOC
E02	19+84.81	26.20' RT	172,630.41	210,500.03	596.45	BOC
E03	19+94.38	28.67' RT	172,627.42	210,509.57	596.42	
E04	19+82.59	35.09' RT	172,621.66	210,497.29	596.80	
E05	19+93.50	32.13' RT	172,624.02	210,508.50	596.65	
E06	20+03.28	30.87' RT	172,624.78	210,518.47	597.09	
E07	19+88.28	44.91' RT	172,611.54	210,502.53	596.92	
E08	19+95.56	42.03' RT	172,614.03	210,510.09	596.80	
E09	20+04.49	40.80' RT	172,614.81	210,519.24	597.23	

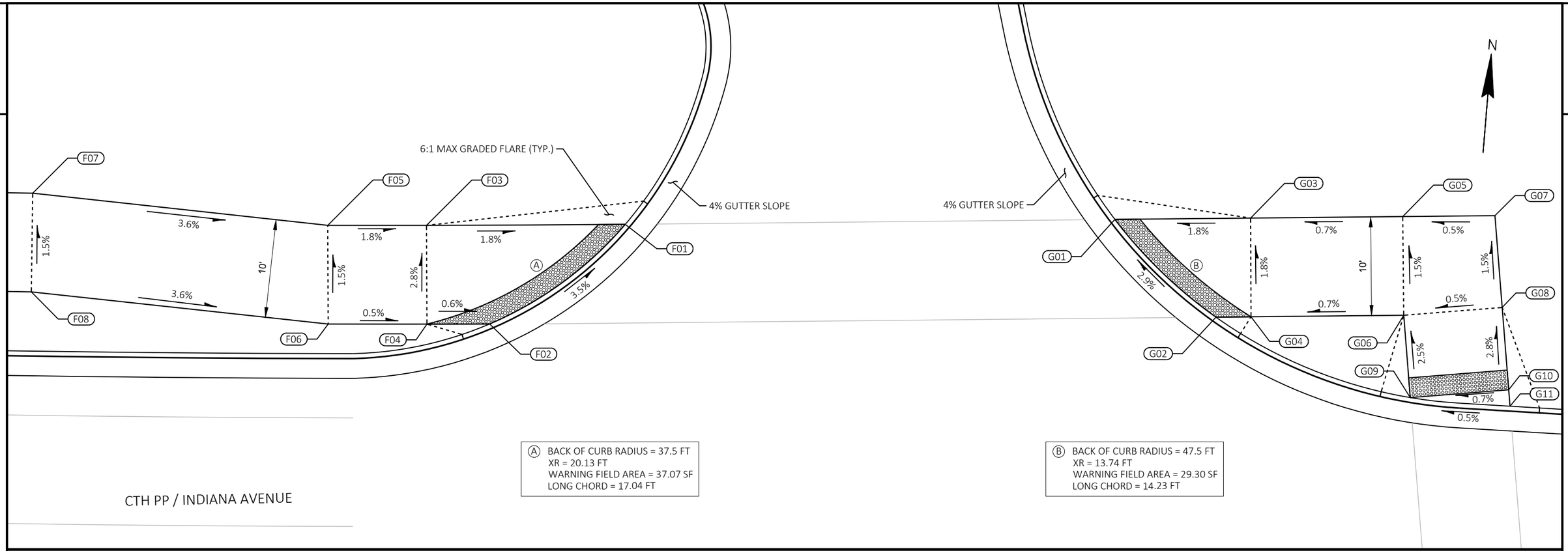
NOTES

1. CONTRACTOR TO FIELD VERIFY ELEVATIONS, GRADES, SLOPES, LENGTHS AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST CURB RAMP ELEVATIONS TO FIT FIELD CONDITIONS WITHIN THE REQUIREMENTS OF THE STANDARD DETAILS.
3. DASHED SIDEWALK JOINT LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT INDICATE EXACT JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.
5. ALL STATION AND OFFSET INFORMATION REFERENCES THE MAINLINE CTH PP ALIGNMENT UNLESS OTHERWISE SPECIFIED.





PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CURB RAMP DETAILS	SHEET 21	E



CURB RAMP POINT TABLE						
POINT	STATION	OFFSET	Y	X	ELEVATION	REMARKS
F01	23+74.14	-67.21' LT	172,736.13	210,881.95	591.39	BOC
F02	23+59.62	-57.66' LT	172,724.99	210,869.05	591.99	BOC
F03	23+53.39	-67.86' LT	172,734.44	210,861.89	591.75	
F04	23+53.10	-57.86' LT	172,724.47	210,862.72	592.03	
F05	23+43.08	-68.17' LT	172,733.66	210,851.92	591.93	
F06	23+42.83	-58.18' LT	172,723.69	210,852.76	592.08	
F07	23+12.30	-72.06' LT	172,734.54	210,821.88	593.02	
F08	23+12.00	-62.07' LT	172,724.56	210,822.53	593.17	

CURB RAMP POINT TABLE						
POINT	STATION	OFFSET	Y	X	ELEVATION	REMARKS
G01	24+25.22	-65.03' LT	172,740.55	210,931.33	591.13	BOC
G02	24+35.02	-54.46' LT	172,731.49	210,942.31	591.54	BOC
G03	24+39.35	-64.22' LT	172,741.78	210,945.02	591.38	
G04	24+38.65	-54.24' LT	172,731.81	210,945.85	591.56	
G05	24+55.18	-63.21' LT	172,743.15	210,960.36	591.49	
G06	24+54.47	-53.23' LT	172,733.19	210,961.25	591.64	
G07	24+64.76	-62.55' LT	172,743.98	210,969.66	591.54	
G08	24+64.72	-53.21' LT	172,734.76	210,971.13	591.69	
G09	24+54.47	-44.87' LT	172,724.93	210,962.57	591.85	BOC
G10	24+64.68	-44.85' LT	172,726.50	210,972.44	591.92	
G11	24+64.67	-43.18' LT	172,724.85	210,972.71	591.90	BOC

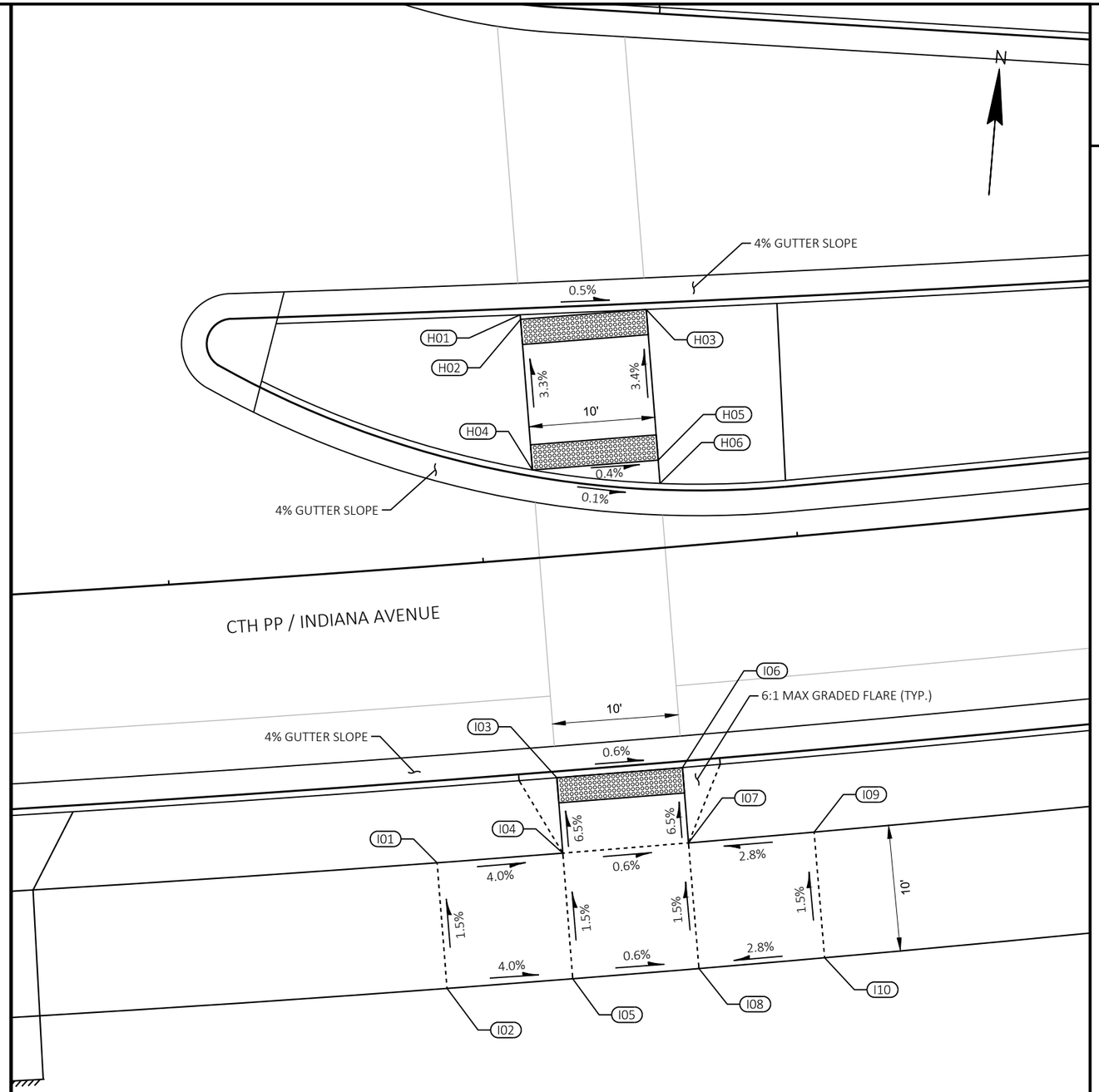
NOTES

1. CONTRACTOR TO FIELD VERIFY ELEVATIONS, GRADES, SLOPES, LENGTHS AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST CURB RAMP ELEVATIONS TO FIT FIELD CONDITIONS WITHIN THE REQUIREMENTS OF THE STANDARD DETAILS.
3. DASHED SIDEWALK JOINT LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT INDICATE EXACT JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.
5. ALL STATION AND OFFSET INFORMATION REFERENCES THE MAINLINE CTH PP ALIGNMENT UNLESS OTHERWISE SPECIFIED.

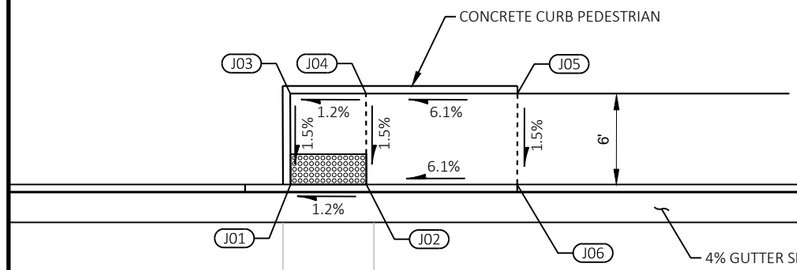
CURB RAMP POINT TABLE						
POINT	STATION	OFFSET	Y	X	ELEVATION	REMARKS
H01	24+54.47	-19.34' LT	172,699.72	210,966.59	592.51	BOC
H02	24+54.47	-18.98' LT	172,699.36	210,966.64	592.51	
H03	24+64.56	-18.95' LT	172,700.93	210,976.52	592.46	BOC
H04	24+54.47	-6.99' LT	172,687.52	210,968.53	592.91	BOC
H05	24+64.50	-6.97' LT	172,689.10	210,978.41	592.87	
H06	24+64.49	-5.11' LT	172,687.26	210,978.70	592.90	BOC
I01	24+44.58	23.50' RT	172,655.86	210,963.45	594.30	
I02	24+44.62	33.50' RT	172,645.98	210,965.03	594.45	
I03	24+54.47	17.50' RT	172,663.34	210,972.39	593.51	BOC
I04	24+54.47	23.50' RT	172,657.41	210,973.33	593.90	
I05	24+54.47	33.50' RT	172,647.53	210,974.91	594.05	
I06	24+64.39	17.50' RT	172,664.93	210,982.26	593.45	BOC
I07	24+64.36	23.50' RT	172,659.01	210,983.20	593.84	
I08	24+64.36	33.50' RT	172,649.14	210,984.82	593.99	
I09	24+74.26	23.50' RT	172,660.65	210,993.07	594.12	
I10	24+74.21	33.50' RT	172,650.78	210,994.69	594.27	

NOTES

1. CONTRACTOR TO FIELD VERIFY ELEVATIONS, GRADES, SLOPES, LENGTHS AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST CURB RAMP ELEVATIONS TO FIT FIELD CONDITIONS WITHIN THE REQUIREMENTS OF THE STANDARD DETAILS.
3. DASHED SIDEWALK JOINT LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT INDICATE EXACT JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.
5. ALL STATION AND OFFSET INFORMATION REFERENCES THE MAINLINE CTH PP ALIGNMENT UNLESS OTHERWISE SPECIFIED.

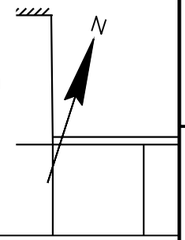


CURB RAMP POINT TABLE						
POINT	STATION	OFFSET	Y	X	ELEVATION	REMARKS
J01	41+42.35	-17.50' LT	173,186.59	212,578.58	628.00	BOC
J02	41+47.35	-17.50' LT	173,188.11	212,583.34	628.06	BOC
J03	41+42.33	-23.50' LT	173,192.30	212,576.73	628.09	
J04	41+47.33	-23.50' LT	173,193.82	212,581.50	628.15	
J05	41+57.33	-23.50' LT	173,196.87	212,591.02	628.76	
J06	41+57.31	-17.48' LT	173,191.12	212,592.84	628.67	
K01	41+42.35	17.54' RT	173,153.21	212,589.24	628.15	BOC
K02	41+47.35	18.63' RT	173,153.70	212,594.34	628.25	BOC
K03	41+42.35	18.63' RT	173,152.17	212,589.58	628.16	
K04	41+32.05	23.50' RT	173,144.40	212,581.24	628.73	
K05	41+32.05	33.49' RT	173,134.88	212,584.29	628.88	
K06	41+42.35	23.50' RT	173,147.54	212,591.06	628.47	
K07	41+42.35	33.50' RT	173,138.01	212,594.10	628.62	
K08	41+47.35	23.50' RT	173,149.06	212,595.82	628.56	
K09	41+47.35	33.50' RT	173,139.53	212,598.86	628.71	
K10	41+54.35	23.50' RT	173,151.19	212,602.49	628.40	BOC
K11	41+54.37	33.50' RT	173,141.67	212,605.55	628.57	
K12	41+58.59	33.50' RT	173,142.95	212,609.57	628.61	BOC
K13	41+42.35	42.00' RT	173,129.91	212,596.69	628.94	
K14	41+47.35	37.02' RT	173,136.18	212,599.93	628.94	
K15	41+47.35	42.02' RT	173,131.41	212,601.46	629.02	
K16	41+46.85	59.02' RT	173,115.07	212,606.15	630.38	
K17	41+51.63	60.47' RT	173,115.15	212,611.15	630.31	BOC
K18	41+51.63	60.47' RT	173,125.11	212,609.04	629.56	
K19	41+51.63	60.47' RT	173,125.05	212,604.04	629.63	
K20	41+42.35	42.00' RT	173,134.65	212,595.17	628.85	
L01	41+93.41	33.50' RT	173,153.55	212,642.74	628.92	BOC
L02	41+98.06	23.50' RT	173,164.49	212,644.13	628.84	BOC
L03	41+98.10	33.50' RT	173,154.97	212,647.20	628.99	
L04	42+05.10	23.50' RT	173,166.63	212,650.83	629.27	
L05	42+05.10	33.50' RT	173,157.10	212,653.87	629.42	
L06	42+10.10	23.50' RT	173,168.15	212,655.59	629.35	
L07	42+10.10	33.50' RT	173,158.62	212,658.63	629.50	
L08	42+05.10	37.00' RT	173,153.77	212,654.94	629.47	
L09	42+05.14	41.96' RT	173,149.05	212,656.49	629.55	
L10	42+10.10	42.00' RT	173,150.53	212,661.22	629.63	
L11	42+26.22	23.50' RT	173,173.06	212,670.95	629.51	
L12	42+26.26	33.50' RT	173,163.54	212,674.03	629.66	
L13	41+89.07	47.59' RT	173,138.81	212,642.90	629.61	
L14	41+93.85	49.06' RT	173,138.86	212,647.90	629.68	



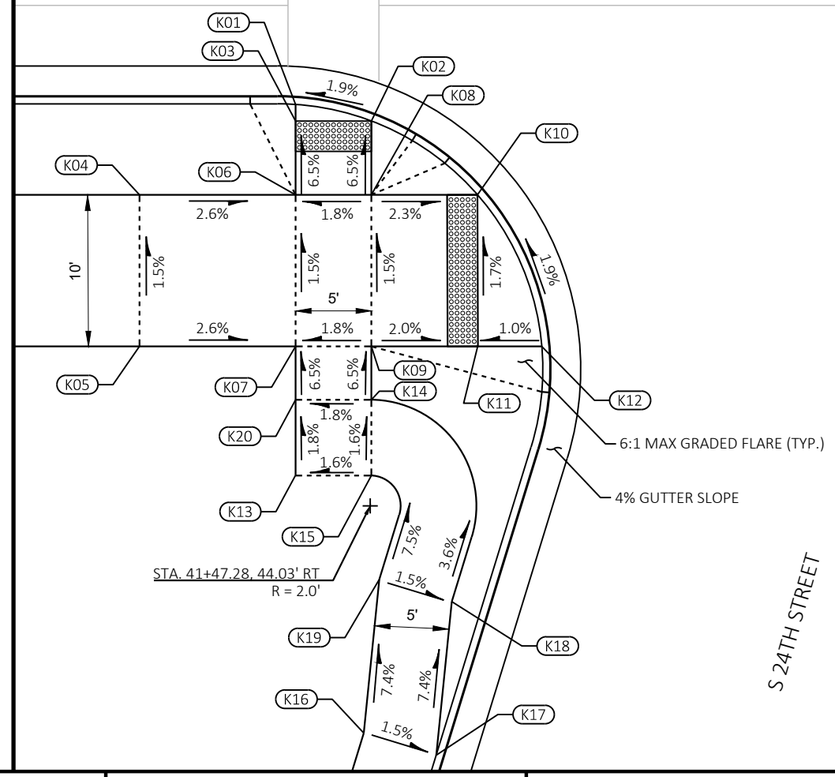
NOTES

1. CONTRACTOR TO FIELD VERIFY ELEVATIONS, GRADES, SLOPES, LENGTHS AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST CURB RAMP ELEVATIONS TO FIT FIELD CONDITIONS WITHIN THE REQUIREMENTS OF THE STANDARD DETAILS.
3. DASHED SIDEWALK JOINT LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT INDICATE EXACT JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.
5. ALL STATION AND OFFSET INFORMATION REFERENCES THE MAINLINE CTH PP ALIGNMENT UNLESS OTHERWISE SPECIFIED.

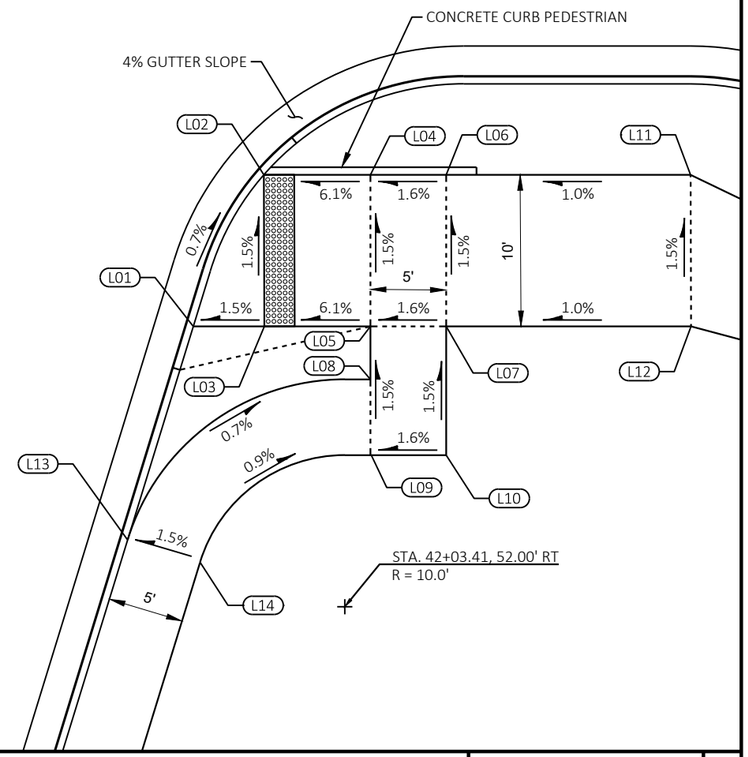


CTH PP / INDIANA AVENUE

42+00



S 24TH STREET



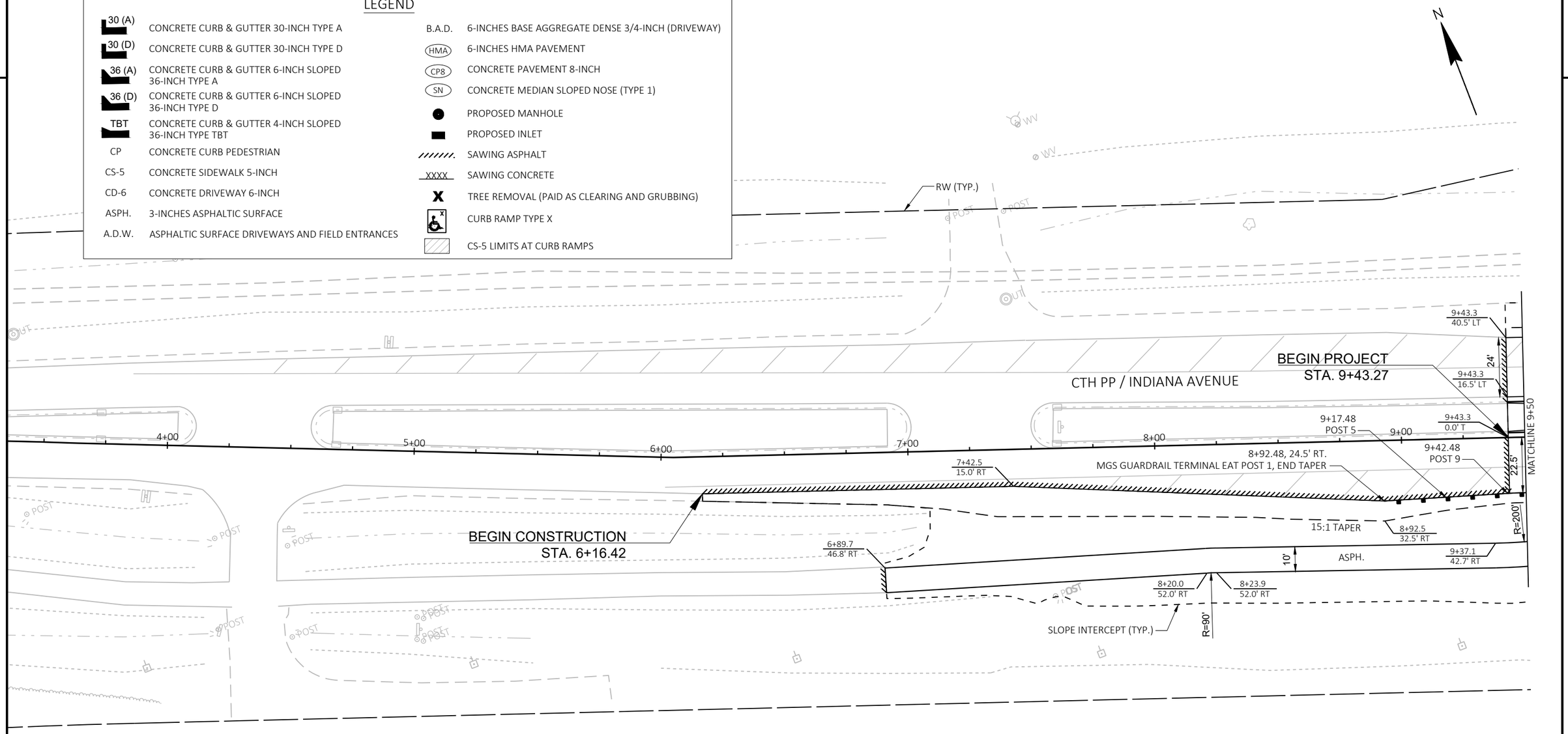
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CURB RAMP DETAILS	SHEET 24	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021301_CR.DWG
LAYOUT NAME - 021305_cr
PLOT DATE : 9/28/2021 7:12 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

LEGEND

30 (A)	CONCRETE CURB & GUTTER 30-INCH TYPE A	B.A.D.	6-INCHES BASE AGGREGATE DENSE 3/4-INCH (DRIVEWAY)
30 (D)	CONCRETE CURB & GUTTER 30-INCH TYPE D	HMA	6-INCHES HMA PAVEMENT
36 (A)	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A	CP8	CONCRETE PAVEMENT 8-INCH
36 (D)	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D	SN	CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
TBT	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT		PROPOSED MANHOLE
CP	CONCRETE CURB PEDESTRIAN		PROPOSED INLET
CS-5	CONCRETE SIDEWALK 5-INCH		SAWING ASPHALT
CD-6	CONCRETE DRIVEWAY 6-INCH	XXXX	SAWING CONCRETE
ASPH.	3-INCHES ASPHALTIC SURFACE	X	TREE REMOVAL (PAID AS CLEARING AND GRUBBING)
A.D.W.	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP TYPE X
			CS-5 LIMITS AT CURB RAMPS



FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "MIDWEST GUARDRAIL SYSTEM (MGS) ENERGY ABSORBING TERMINAL".

NOTE: ALL POINTS AND RADII ARE TO THE FLANGE LINE OF CURB, UNLESS OTHERWISE NOTED.

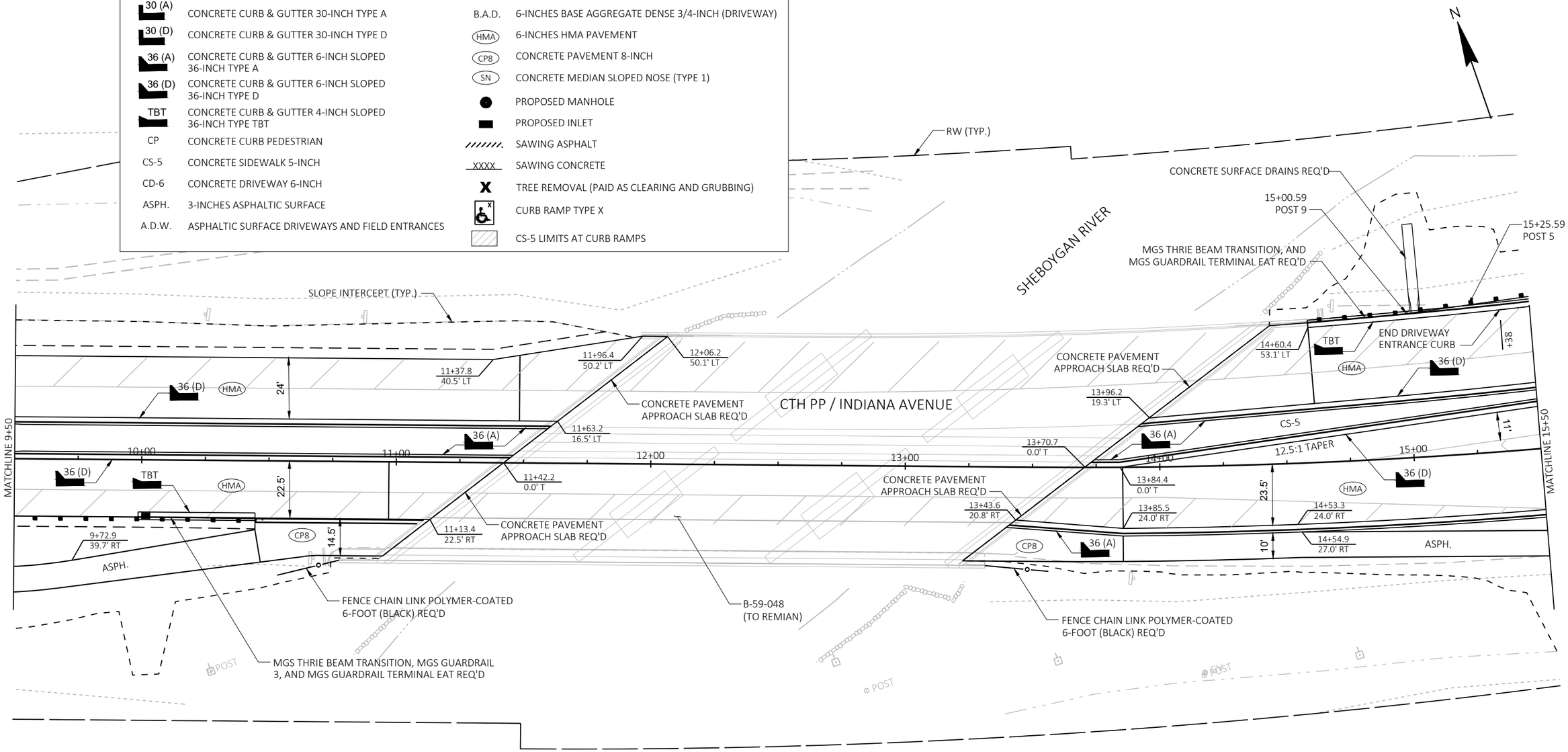
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PLAN DETAILS	SHEET 25	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021201_pd
PLOT DATE : 9/28/2021 7:07 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

30 (A)	CONCRETE CURB & GUTTER 30-INCH TYPE A	B.A.D.	6-INCHES BASE AGGREGATE DENSE 3/4-INCH (DRIVEWAY)
30 (D)	CONCRETE CURB & GUTTER 30-INCH TYPE D	HMA	6-INCHES HMA PAVEMENT
36 (A)	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A	CP8	CONCRETE PAVEMENT 8-INCH
36 (D)	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D	SN	CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
TBT	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT		PROPOSED MANHOLE
CP	CONCRETE CURB PEDESTRIAN		PROPOSED INLET
CS-5	CONCRETE SIDEWALK 5-INCH		SAWING ASPHALT
CD-6	CONCRETE DRIVEWAY 6-INCH	XXXX	SAWING CONCRETE
ASPH.	3-INCHES ASPHALTIC SURFACE	X	TREE REMOVAL (PAID AS CLEARING AND GRUBBING)
A.D.W.	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP TYPE X
			CS-5 LIMITS AT CURB RAMPS



FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "MIDWEST GUARDRAIL SYSTEM (MGS) ENERGY ABSORBING TERMINAL".

NOTE: ALL POINTS AND RADII ARE TO THE FLANGE LINE OF CURB, UNLESS OTHERWISE NOTED.

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PLAN DETAILS	SHEET 26	E

2

LEGEND

30 (A)	CONCRETE CURB & GUTTER 30-INCH TYPE A	B.A.D.	6-INCHES BASE AGGREGATE DENSE 3/4-INCH (DRIVEWAY)
30 (D)	CONCRETE CURB & GUTTER 30-INCH TYPE D	HMA	6-INCHES HMA PAVEMENT
36 (A)	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A	CP8	CONCRETE PAVEMENT 8-INCH
36 (D)	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D	SN	CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
TBT	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT		PROPOSED MANHOLE
CP	CONCRETE CURB PEDESTRIAN		PROPOSED INLET
CS-5	CONCRETE SIDEWALK 5-INCH		SAWING ASPHALT
CD-6	CONCRETE DRIVEWAY 6-INCH	XXXX	SAWING CONCRETE
ASPH.	3-INCHES ASPHALTIC SURFACE	X	TREE REMOVAL (PAID AS CLEARING AND GRUBBING)
A.D.W.	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP TYPE X
			CS-5 LIMITS AT CURB RAMPS

END CONSTRUCTION
STA. 109+25.94 TA

N

SOUTH TAYLOR DRIVE

STA. 18+47.40, 124.79' LT
STA. 108+52.37 TA, 120.00' LT
R = 120.0'

STA. 18+63.46, 93.31' LT
STA. 108+25.51 TA, 97.58' LT
R = 40.0'

15+50.59, 60.0' LT.
MGS GUARDRAIL TERMINAL EAT POST 1

SLOPE INTERCEPT (TYP.)

BEGIN DRIVEWAY ENTRANCE CURB

MATCHLINE 15+50

MATCHLINE 21+50

CTH PP / INDIANA AVENUE

RW (TYP.)

TLE

ASPH.

CS-5

HMA

SN

CP8

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "MIDWEST GUARDRAIL SYSTEM (MGS) ENERGY ABSORBING TERMINAL".

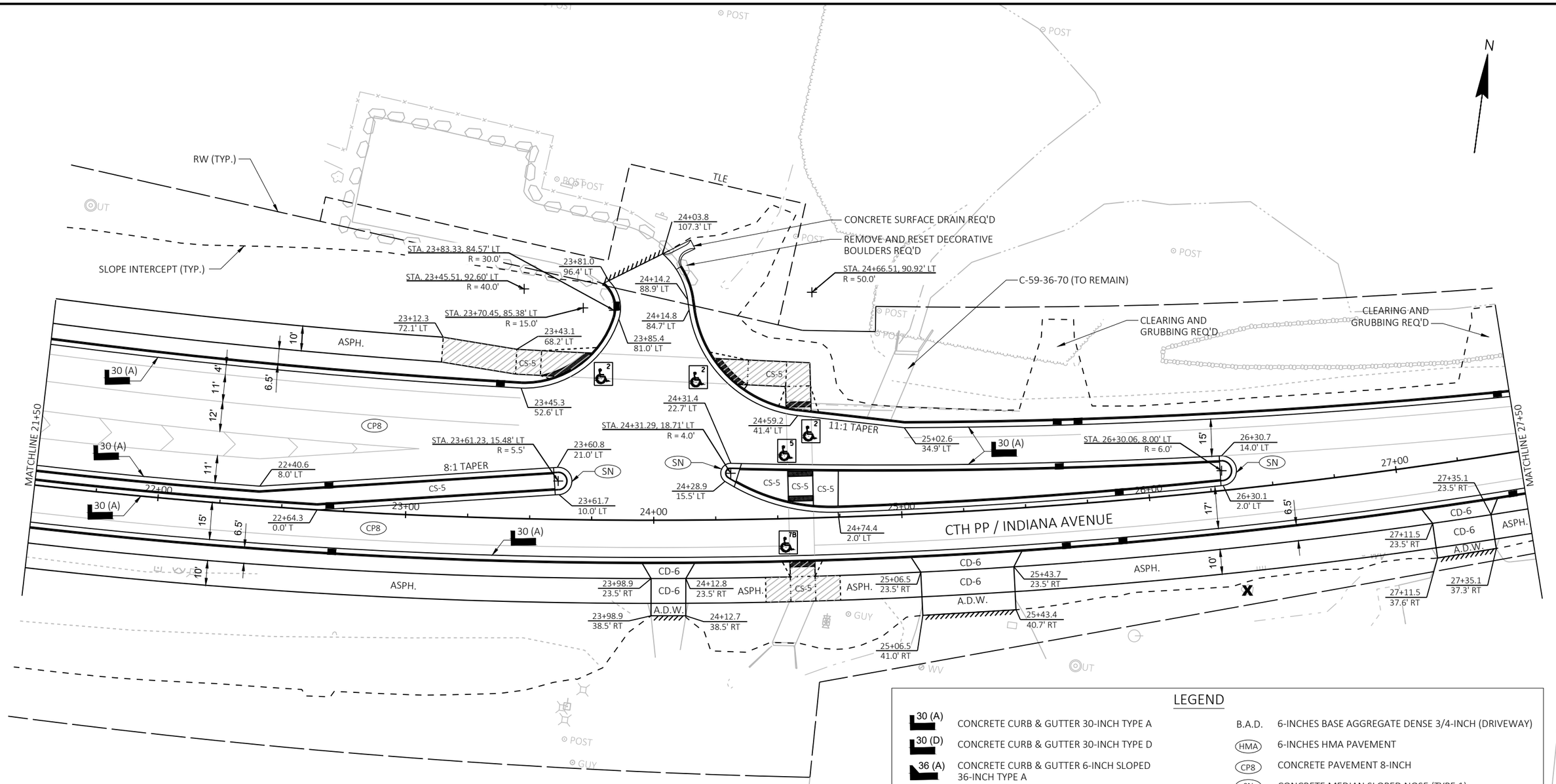
BEGIN CONSTRUCTION
STA. 106+02.62 TA

NOTE: ALL POINTS AND RADII ARE TO THE FLANGE LINE OF CURB, UNLESS OTHERWISE NOTED.

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PLAN DETAILS	SHEET 27	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021203_pd
PLOT DATE : 9/28/2021 7:07 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



NOTE: ALL POINTS AND RADII ARE TO THE FLANGE LINE OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

30 (A)	CONCRETE CURB & GUTTER 30-INCH TYPE A	B.A.D.	6-INCHES BASE AGGREGATE DENSE 3/4-INCH (DRIVEWAY)
30 (D)	CONCRETE CURB & GUTTER 30-INCH TYPE D	HMA	6-INCHES HMA PAVEMENT
36 (A)	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A	CP8	CONCRETE PAVEMENT 8-INCH
36 (D)	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D	SN	CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
TBT	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT		PROPOSED MANHOLE
CP	CONCRETE CURB PEDESTRIAN		PROPOSED INLET
CS-5	CONCRETE SIDEWALK 5-INCH		SAWING ASPHALT
CD-6	CONCRETE DRIVEWAY 6-INCH	XXXX	SAWING CONCRETE
ASPH.	3-INCHES ASPHALTIC SURFACE	X	TREE REMOVAL (PAID AS CLEARING AND GRUBBING)
A.D.W.	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP TYPE X
			CS-5 LIMITS AT CURB RAMPS

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PLAN DETAILS	SHEET 28	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021204_pd
PLOT DATE : 9/28/2021 7:07 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

LEGEND

30 (A)	CONCRETE CURB & GUTTER 30-INCH TYPE A	B.A.D.	6-INCHES BASE AGGREGATE DENSE 3/4-INCH (DRIVEWAY)
30 (D)	CONCRETE CURB & GUTTER 30-INCH TYPE D	HMA	6-INCHES HMA PAVEMENT
36 (A)	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A	CP8	CONCRETE PAVEMENT 8-INCH
36 (D)	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D	SN	CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
TBT	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT		PROPOSED MANHOLE
CP	CONCRETE CURB PEDESTRIAN		PROPOSED INLET
CS-5	CONCRETE SIDEWALK 5-INCH		SAWING ASPHALT
CD-6	CONCRETE DRIVEWAY 6-INCH	XXXX	SAWING CONCRETE
ASPH.	3-INCHES ASPHALTIC SURFACE	X	TREE REMOVAL (PAID AS CLEARING AND GRUBBING)
A.D.W.	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP TYPE X
			CS-5 LIMITS AT CURB RAMPS

N

TLE

RW (TYP.)

CLEARING AND GRUBBING REQ'D

SLOPE INTERCEPT (TYP.)

MATCHLINE 27+50

28+00

29+00

29+49.4
15.0' LT

30+00

31+00

32+00

33+00

MATCHLINE 33+50

CP8

15'

15'

CTH PP / INDIANA AVENUE

30 (A)

30 (A)

33+18.3
23.5' RT

33+40.9
23.5' RT

6.5'

10'

CD-6

ASPH.

28+16.9
23.5' RT

28+29.2
23.5' RT

29+37.0
23.5' RT

29+59.0
23.5' RT

31+01.3
23.5' RT

31+11.3
23.5' RT

32+89.1
23.5' RT

B.A.D.

A.D.W.

28+16.4
40.2' RT

28+28.4
40.6' RT

29+37.0
45.5' RT

29+58.9
45.5' RT

31+01.3
39.5' RT

31+11.3
39.5' RT

32+88.5
43.4' RT

33+15.2
46.9' RT

33+41.3
49.0' RT

NOTE: ALL POINTS AND RADII ARE TO THE FLANGE LINE OF CURB, UNLESS OTHERWISE NOTED.

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PLAN DETAILS	SHEET 29	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021205_pd

PLOT DATE : 9/28/2021 7:07 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

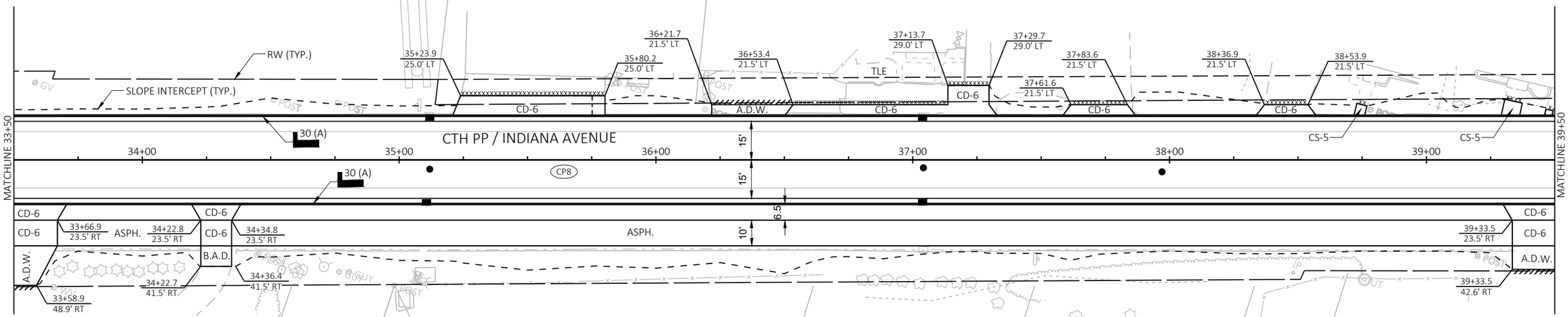
2

2

LEGEND

30 (A)	CONCRETE CURB & GUTTER 30-INCH TYPE A	B.A.D.	6-INCHES BASE AGGREGATE DENSE 3/4-INCH (DRIVEWAY)
30 (D)	CONCRETE CURB & GUTTER 30-INCH TYPE D	HMA	6-INCHES HMA PAVEMENT
36 (A)	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A	CP8	CONCRETE PAVEMENT 8-INCH
36 (D)	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D	SN	CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
TBT	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT		PROPOSED MANHOLE
CP	CONCRETE CURB PEDESTRIAN		PROPOSED INLET
CS-5	CONCRETE SIDEWALK 5-INCH		SAWING ASPHALT
CD-6	CONCRETE DRIVEWAY 6-INCH	XXXX	SAWING CONCRETE
ASPH.	3-INCHES ASPHALTIC SURFACE	X	TREE REMOVAL (PAID AS CLEARING AND GRUBBING)
A.D.W.	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP TYPE X
			CS-5 LIMITS AT CURB RAMPS

N



NOTE: ALL POINTS AND RADII ARE TO THE FLANGE LINE OF CURB, UNLESS OTHERWISE NOTED.

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PLAN DETAILS	SHEET 30	E

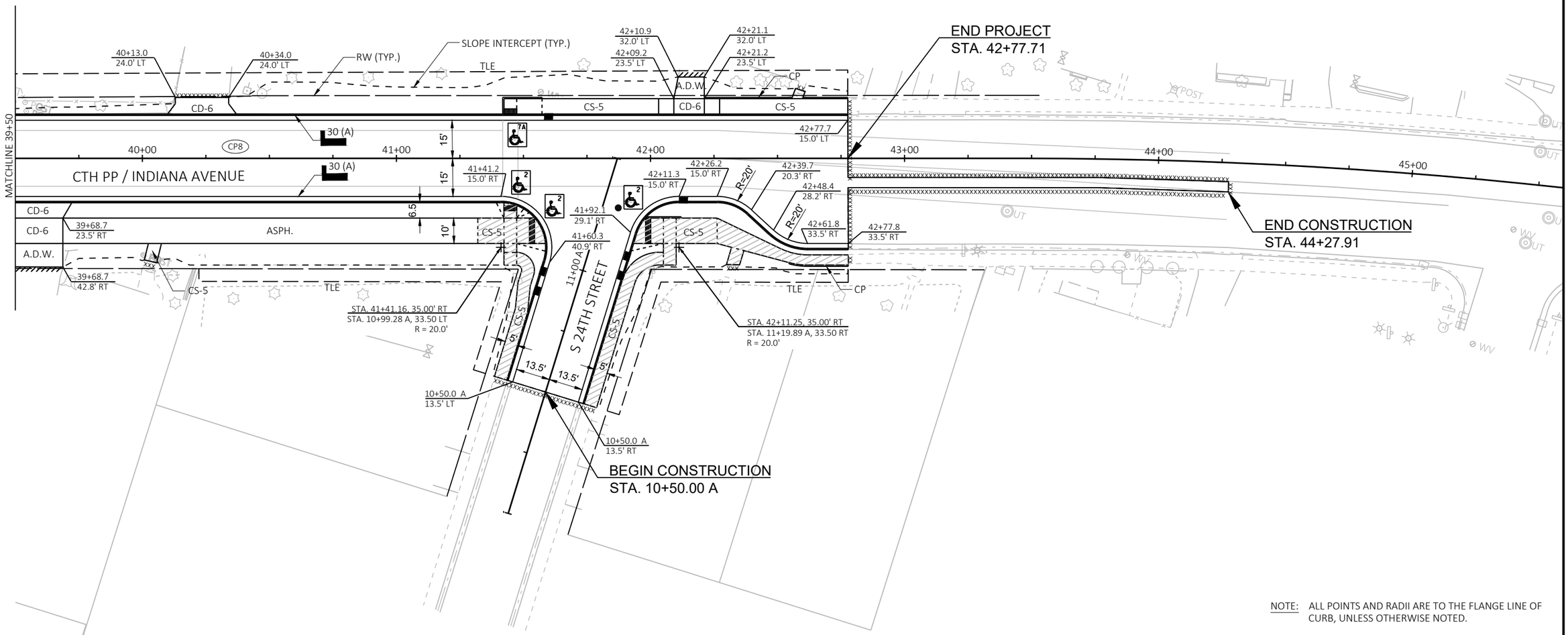
FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021206_pd
PLOT DATE : 9/28/2021 7:07 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

30 (A)	CONCRETE CURB & GUTTER 30-INCH TYPE A	B.A.D.	6-INCHES BASE AGGREGATE DENSE 3/4-INCH (DRIVEWAY)
30 (D)	CONCRETE CURB & GUTTER 30-INCH TYPE D	HMA	6-INCHES HMA PAVEMENT
36 (A)	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A	CP8	CONCRETE PAVEMENT 8-INCH
36 (D)	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D	SN	CONCRETE MEDIAN SLOPED NOSE (TYPE 1)
TBT	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT		PROPOSED MANHOLE
CP	CONCRETE CURB PEDESTRIAN		PROPOSED INLET
CS-5	CONCRETE SIDEWALK 5-INCH		SAWING ASPHALT
CD-6	CONCRETE DRIVEWAY 6-INCH	XXXX	SAWING CONCRETE
ASPH.	3-INCHES ASPHALTIC SURFACE	X	TREE REMOVAL (PAID AS CLEARING AND GRUBBING)
A.D.W.	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP TYPE X
			CS-5 LIMITS AT CURB RAMPS

N

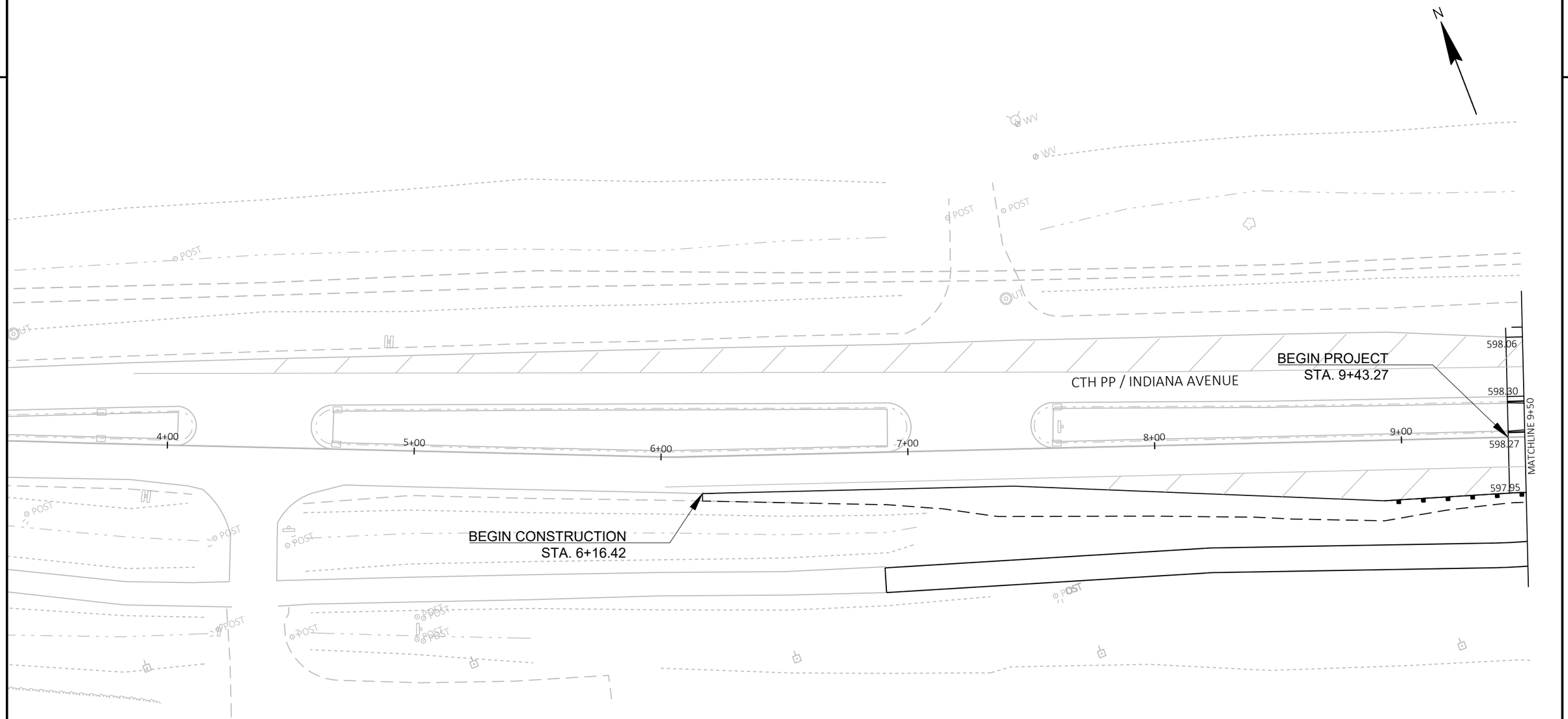


NOTE: ALL POINTS AND RADII ARE TO THE FLANGE LINE OF CURB, UNLESS OTHERWISE NOTED.

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PLAN DETAILS	SHEET 31	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021207_pd
PLOT DATE : 9/28/2021 7:08 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

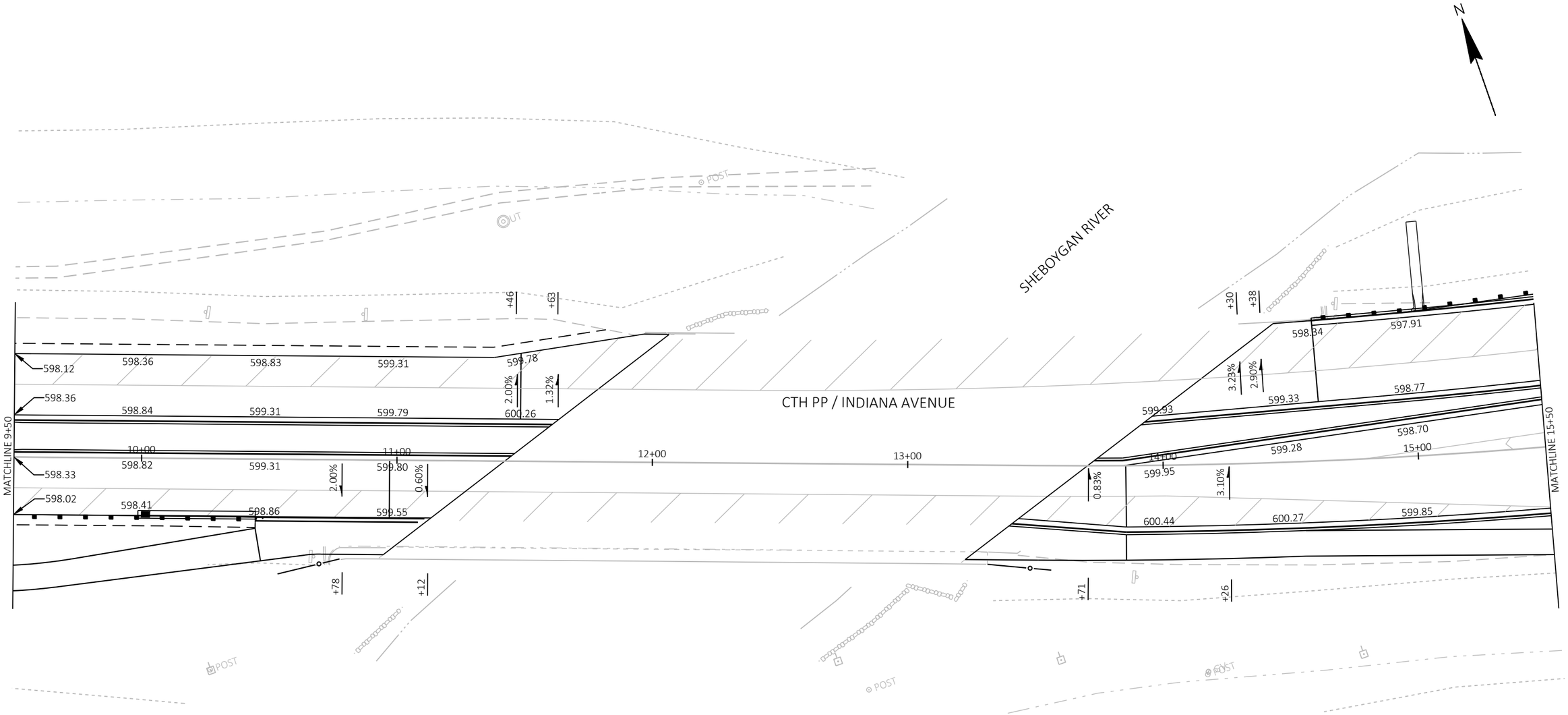


PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PAVING GRADES	SHEET 32	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021401_JD.DWG
LAYOUT NAME - 021401_jd

PLOT DATE : 9/28/2021 7:18 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

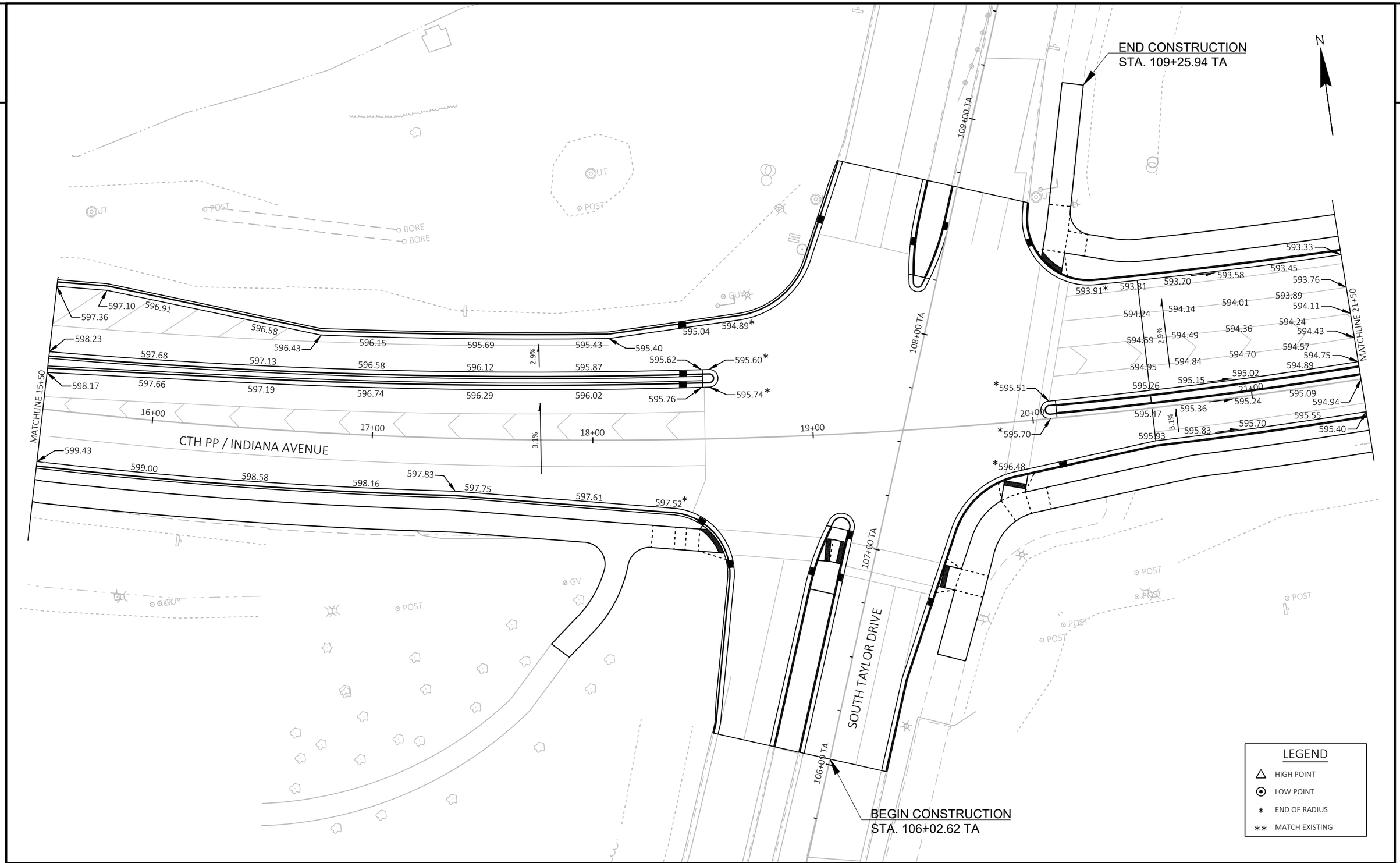


PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PAVING GRADES	SHEET 33	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021401_JD.DWG
LAYOUT NAME - 021402_jd

PLOT DATE : 9/28/2021 7:18 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

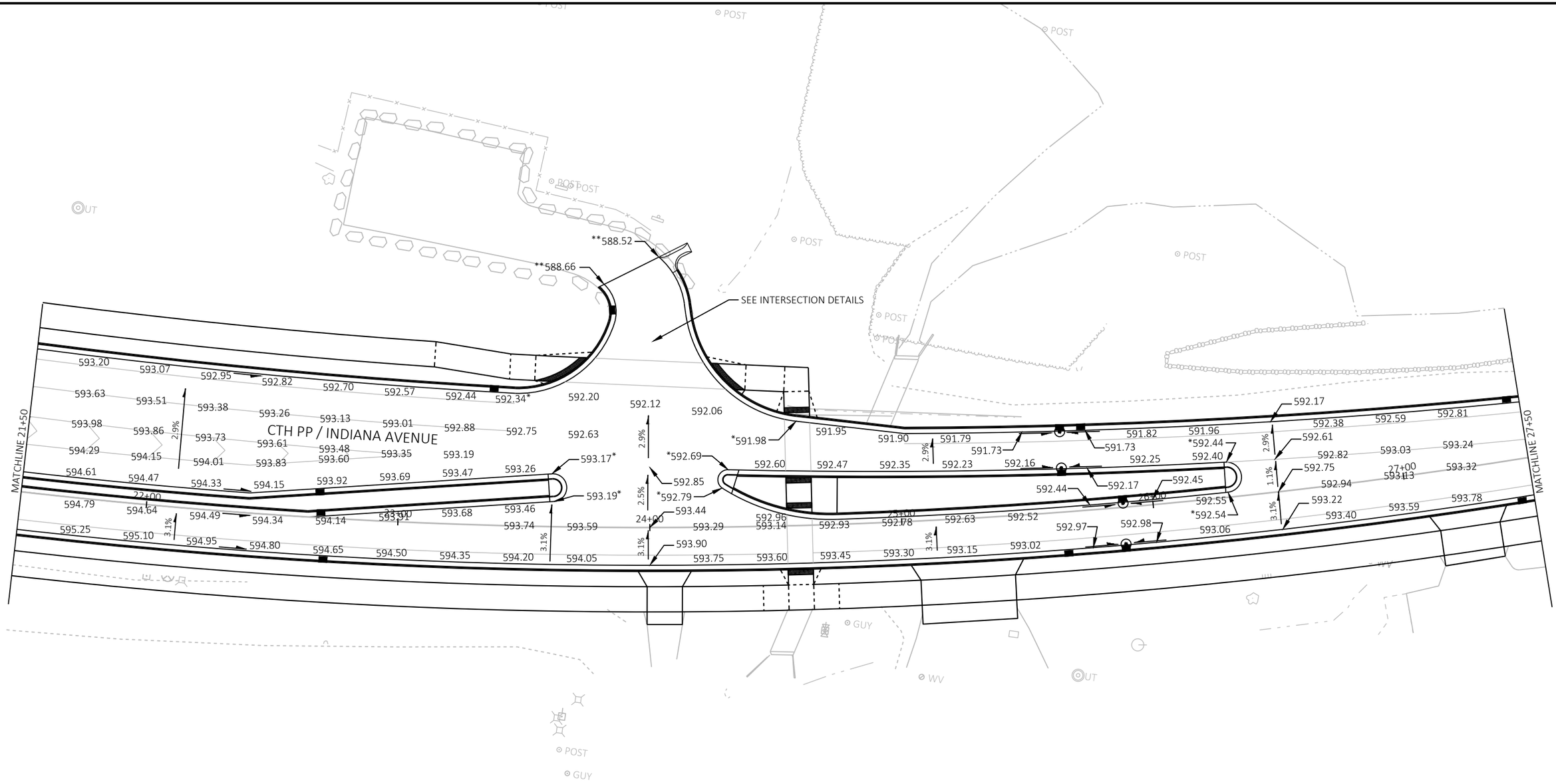


PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PAVING GRADES	SHEET 34	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021401_JD.DWG
LAYOUT NAME - 021403_jd

PLOT DATE : 9/28/2021 7:18 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

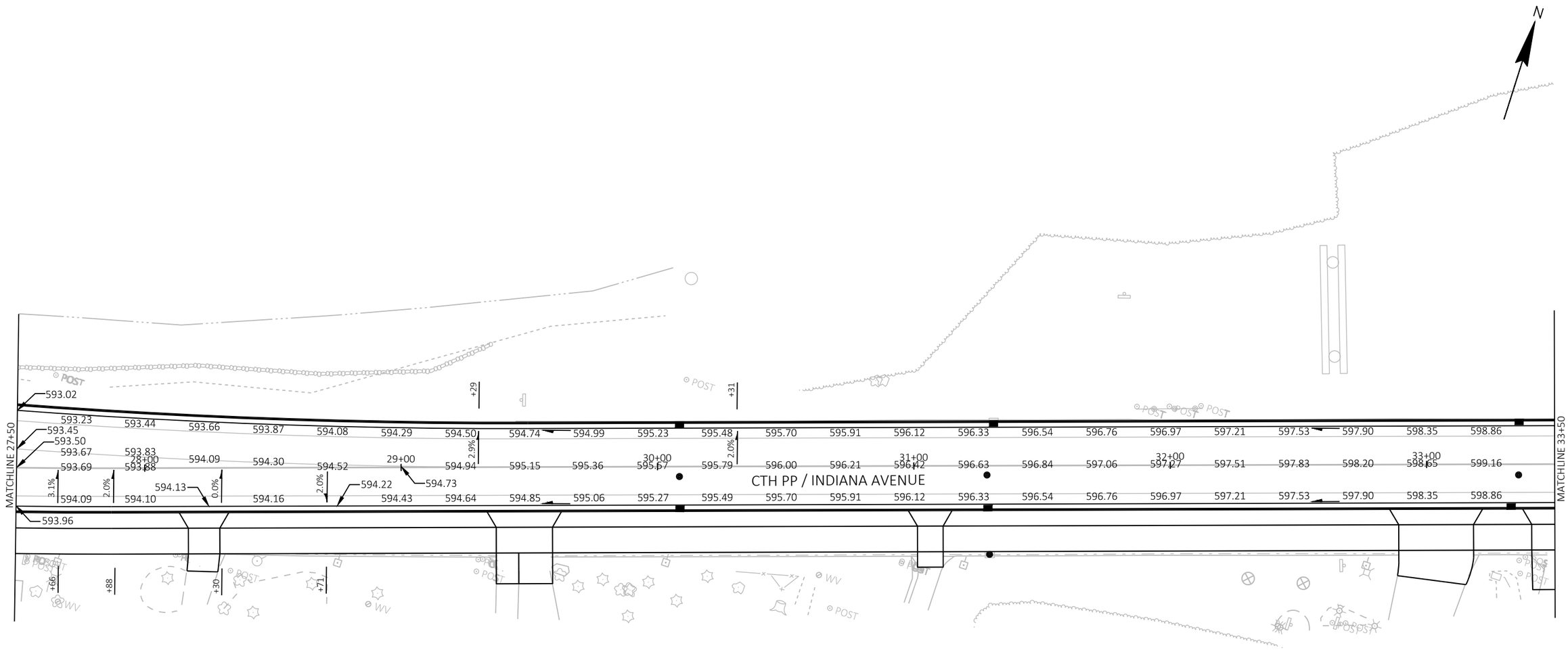
- △ HIGH POINT
- ⊙ LOW POINT
- ∗ END OF RADIUS
- ∗∗ MATCH EXISTING

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PAVING GRADES	SHEET 35	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021401_JD.DWG
LAYOUT NAME - 021404_jd

PLOT DATE : 9/28/2021 7:18 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

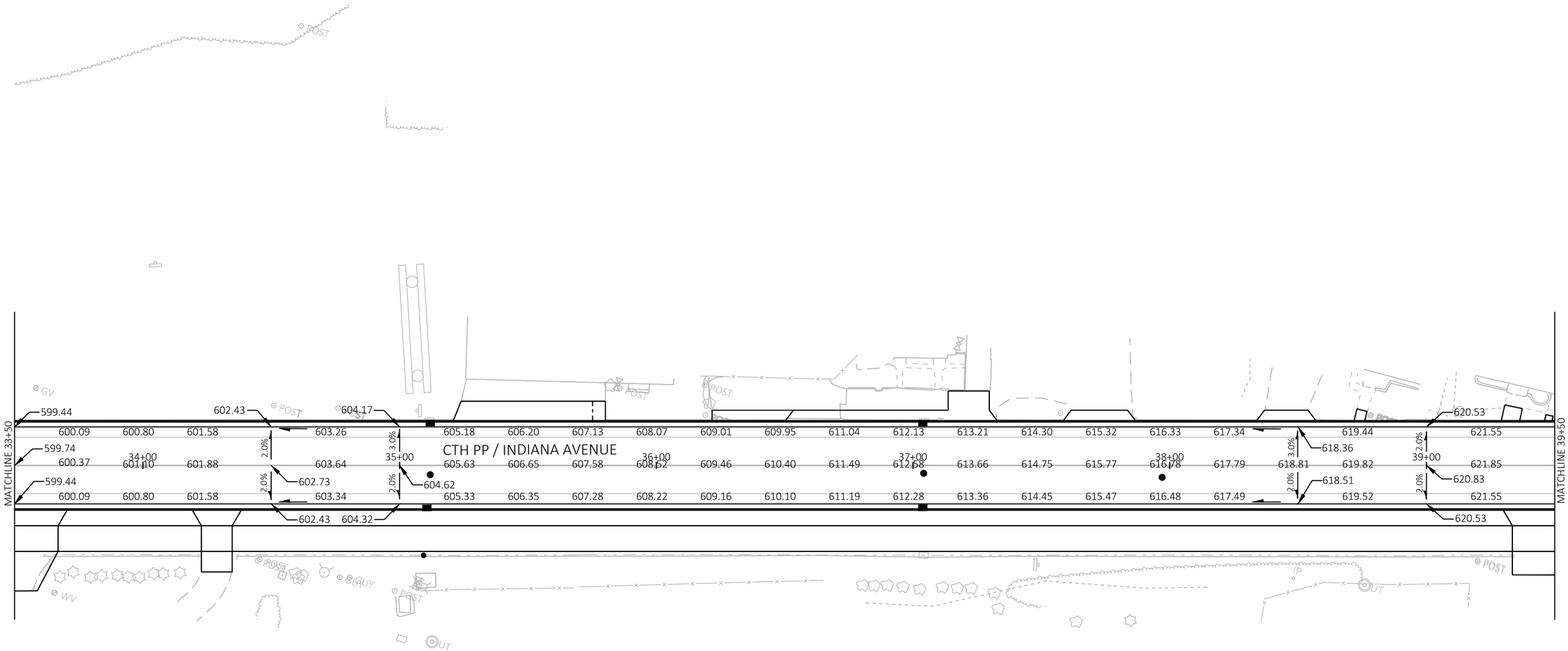
- △ HIGH POINT
- ⊙ LOW POINT
- ∗ END OF RADIUS
- ∗∗ MATCH EXISTING

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PAVING GRADES	SHEET 36	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021401_JD.DWG
LAYOUT NAME - 021405_jd

PLOT DATE : 9/28/2021 7:19 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

- △ HIGH POINT
- ⊙ LOW POINT
- ∗ END OF RADIUS
- ∗∗ MATCH EXISTING

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PAVING GRADES	SHEET 37	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021401_JD.DWG
LAYOUT NAME - 021406_jd

PLOT DATE : 9/28/2021 7:19 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

MATCHLINE 39+00

622.56
623.57 624.52 625.37 626.12 626.78 627.34 627.80 628.17 628.44 628.62 628.35
622.86
623.86 624.82 625.67 626.42 627.08 627.64 628.10 628.47 628.74 628.92 629.00 628.94 629.03
622.56
623.57 624.52 625.37 626.12 626.78 628.59
627.34 627.95

40+00 2.0% 2.0% 41+00 2.0% 1.0% 42+00 2.0% 1.0%

CTH PP / INDIANA AVENUE

628.20* *628.81 628.66 628.86* 628.91* 628.94* 628.92

627.97** 628.73** 629.14** 628.88**

END PROJECT
STA. 42+77.71

43+00 44+00 45+00

** **

END CONSTRUCTION
STA. 44+27.91

SEE INTERSECTION DETAILS

11+00 A
S 24TH STREET

**631.15
**631.20
631.06**

BEGIN CONSTRUCTION
STA. 10+50.00 A

LEGEND

- △ HIGH POINT
- ⊙ LOW POINT
- * END OF RADIUS
- ** MATCH EXISTING

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PAVING GRADES	SHEET 38	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021401_JD.DWG
LAYOUT NAME - 021407_jd

PLOT DATE : 9/28/2021 7:19 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

* END RADIUS

** MATCH EXISTING

PROPOSED INLET

PROPOSED MANHOLE

HIGH POINT

LOW POINT

N

SOUTH TAYLOR DRIVE

109+00 TA

108+00 TA

+68 TA

+50 TA

+40 TA

STA. 18+63.46, 93.31' LT
STA. 108+25.51 TA, 97.58' LT
R = 40.0'

STA. 108+40.50 TA
97.58' LT

STA. 20+34.65, 88.40' LT
STA. 108+67.20 TA, 61.20' RT
R = 30.0'

STA. 108+49.96 TA
36.64' RT

STA. 108+37.30 TA
58.74' RT

594.43 **594.71 **594.58 **594.35 594.29 594.40** 594.33** 594.26** 594.12*

594.26 594.41 594.28 594.05 594.11 593.99 593.87 594.00 593.91*

594.35* 594.59 594.51 594.44 594.38 594.29 594.23 594.16 594.89*

2.1% 1.1% 1.9% 0.9% 0.6% 1.0% 2.0% 1.8% 0.6% 1.0% 1.3% 1.6% 0.8% 1.1% 1.3% 0.5% 1.0% 1.0% 0.5% 0.3% 0.5% 0.7% 0.7% 0.4% 0.7% 0.5% 0.8% 1.20% 0.3% 0.6% 0.5% 0.6% 0.5% 0.6% 0.5% 0.8%

OUT POST GUY

CTH PP / INDIANA AVENUE

18+00 19+00 20+00 21+00

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	INTERSECTION DETAILS	SHEET 39	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - 021101_id

PLOT DATE : 9/28/2021 9:23 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

18+00
19+00
20+00
N
CTH PP / INDIANA AVENUE
EXISTING RW (TYP.)
SOUTH TAYLOR DRIVE
107+00 TA
106+00 TA
STA. 106+79.65 TA
61.98' LT
STA. 106+68.54 TA, 89.85' LT
R = 30.0'
STA. 18+33.29, 60.98' RT
STA. 19+95.27, 62.15' RT
STA. 107+11.96 TA, 70.87' RT
R = 40.0'
+69 TA
+50 TA
+65
+55
+35 TA
+13 TA
+03 TA
*597.52
*597.11
597.08
597.02
596.96
596.88
596.81
596.76
596.70
596.48*
*596.73
596.79
596.90
596.92
597.03
597.17
597.29
597.23
597.20
597.27
597.39
597.33
597.19
597.40
597.34
597.33
597.40
597.37
**597.39
**597.65
**597.76
**597.64
597.86**
598.04**
598.12**
1.0%
0.5%
0.7%
0.6%
1.1%
0.46%
0.4%
0.9%
2.0%
2.2%
1.8%
1.5%
1.7%
POST
GV
LUY

LEGEND
* END RADIUS
** MATCH EXISTING
PROPOSED INLET
PROPOSED MANHOLE
HIGH POINT
LOW POINT

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	INTERSECTION DETAILS	SHEET 40	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - 021102_id
PLOT DATE : 9/28/2021 9:23 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT

2

LEGEND

- * END RADIUS
- ** MATCH EXISTING
- PROPOSED INLET
- PROPOSED MANHOLE
- HIGH POINT
- LOW POINT

N

**588.52
2.0%
**588.76
0.8%
**588.66
7.1%
STA. 23+45.51, 92.60' LT
R = 40.0'
8.7%
STA. 23+83.33, 84.57' LT
R = 30.0'
590.16
0.7%
STA. 23+70.45, 85.38' LT
R = 15.0'
590.12*
8.7%
STA. 23+79.07
69.05' LT
591.30
591.35
0.2%
1.3%
4.0%
3.3%
*592.34
1.4%
592.18
STA. 23+56.90 PP
54.14' LT
592.20
+75
0.5%
592.12
24+00
0.5%
592.06
+25
7.7%
*589.77
5.8%
1.4%
*590.01
5.8%
5.8%
STA. 24+20.81
67.26' LT
591.08
STA. 24+66.51, 90.92' LT
R = 50.0'
STA. 24+36.57 PP
50.16' LT
591.72
2.8%
1.1%
591.98*

CTH PP / INDIANA AVENUE

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	INTERSECTION DETAILS	SHEET 41	E

2

CTH PP / INDIANA AVENUE

628.32
+50
1.1%
628.59
+75
628.64
0.7%
628.77
+00
628.82
628.90
1.6%
0.6%
*628.20
1.6%
628.81
*628.97
1.2%
1.6%
0.6%
STA. 11+03.71 A
14.00' LT
628.73
4.0%
+89.28 A
1.6%
628.91*
11+00 A
1.6%
629.13
STA. 11+05.01 A
13.50' RT
629.06
629.08
3.5%
+02.39 A
0.5%
629.15
STA. 42+11.25, 35.00' RT
STA. 11+19.89 A, 33.50 RT
R = 20.0'
STA. 41+41.16, 35.00' RT
STA. 10+99.28 A, 33.50 LT
R = 20.0'

S 24TH STREET

4.1%
4.3%
3.5%
2.1%**
1.9%**
630.94**
631.23**
630.98**

N

2

LEGEND

*	END RADIUS
**	MATCH EXISTING
■	PROPOSED INLET
●	PROPOSED MANHOLE
△	HIGH POINT
⊙	LOW POINT

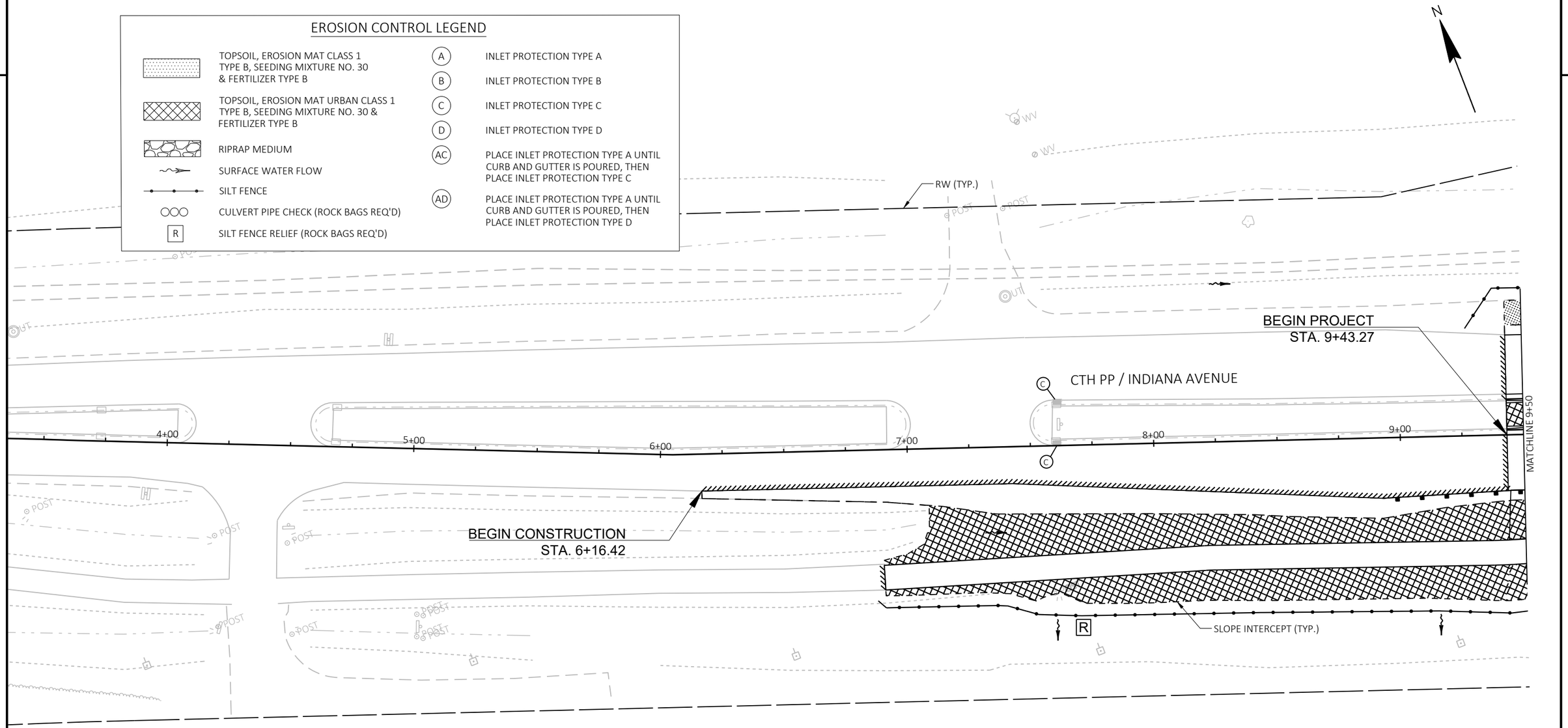
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	INTERSECTION DETAILS	SHEET 42	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - 021104_id
PLOT DATE : 9/28/2021 9:23 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

EROSION CONTROL LEGEND

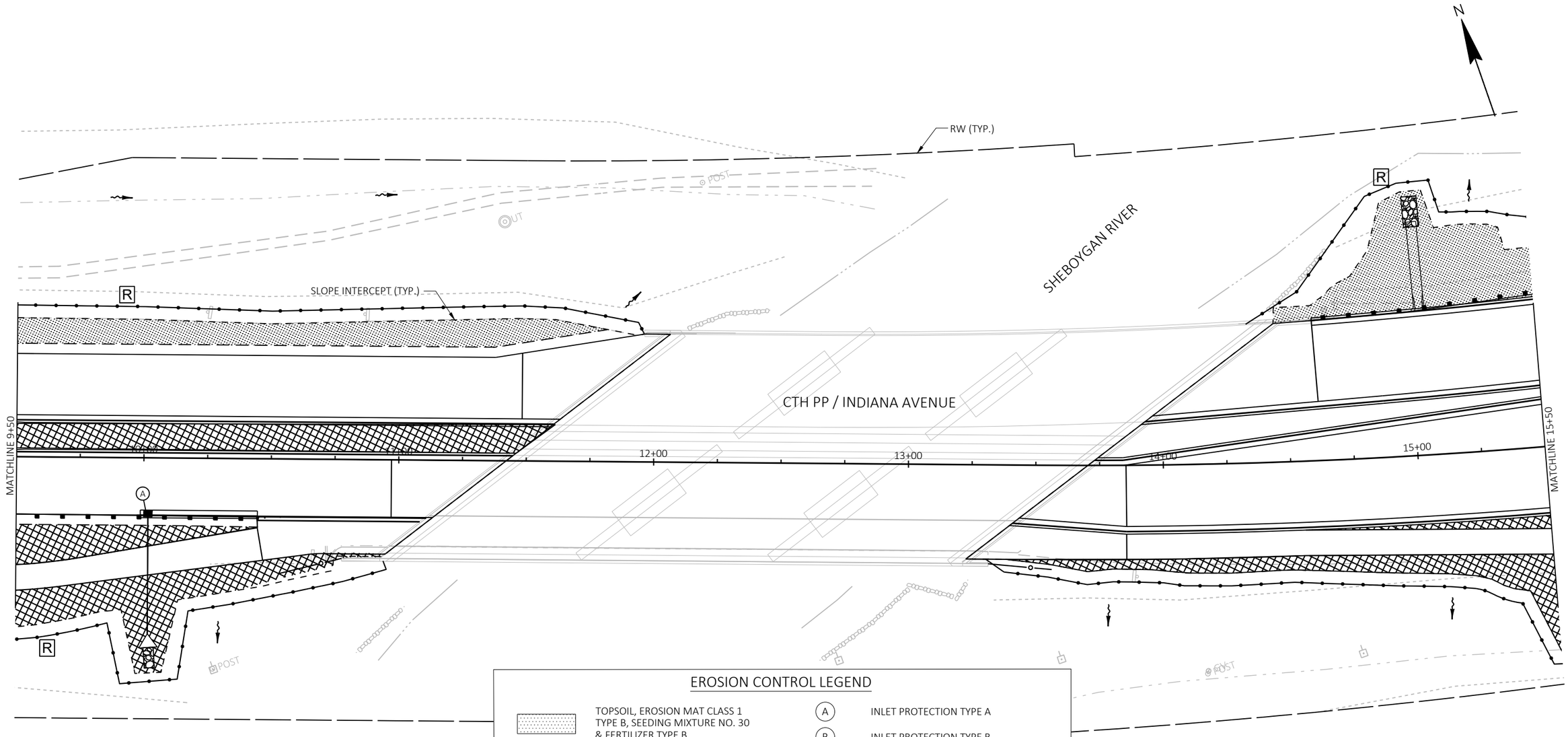
- TOPSOIL, EROSION MAT CLASS 1 TYPE B, SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B
- TOPSOIL, EROSION MAT URBAN CLASS 1 TYPE B, SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW
- SILT FENCE
- CULVERT PIPE CHECK (ROCK BAGS REQ'D)
- (R) SILT FENCE RELIEF (ROCK BAGS REQ'D)
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE C
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE D



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET 43	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - 022001_ec
PLOT DATE : 9/28/2021 7:13 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

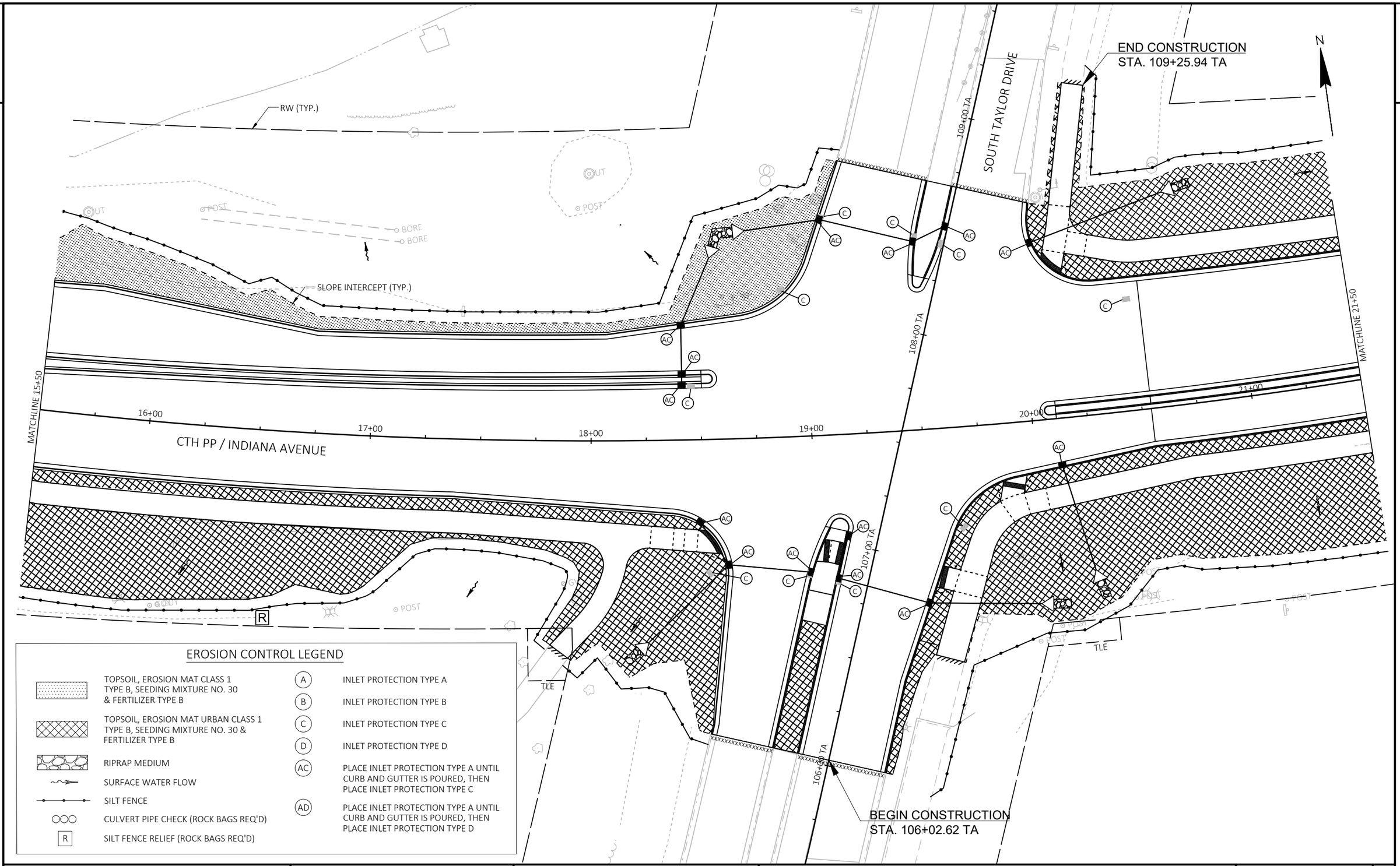


EROSION CONTROL LEGEND

- TOPSOIL, EROSION MAT CLASS 1 TYPE B, SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B
- TOPSOIL, EROSION MAT URBAN CLASS 1 TYPE B, SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW
- SILT FENCE
- CULVERT PIPE CHECK (ROCK BAGS REQ'D)
- R — SILT FENCE RELIEF (ROCK BAGS REQ'D)

- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE C
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE D

2



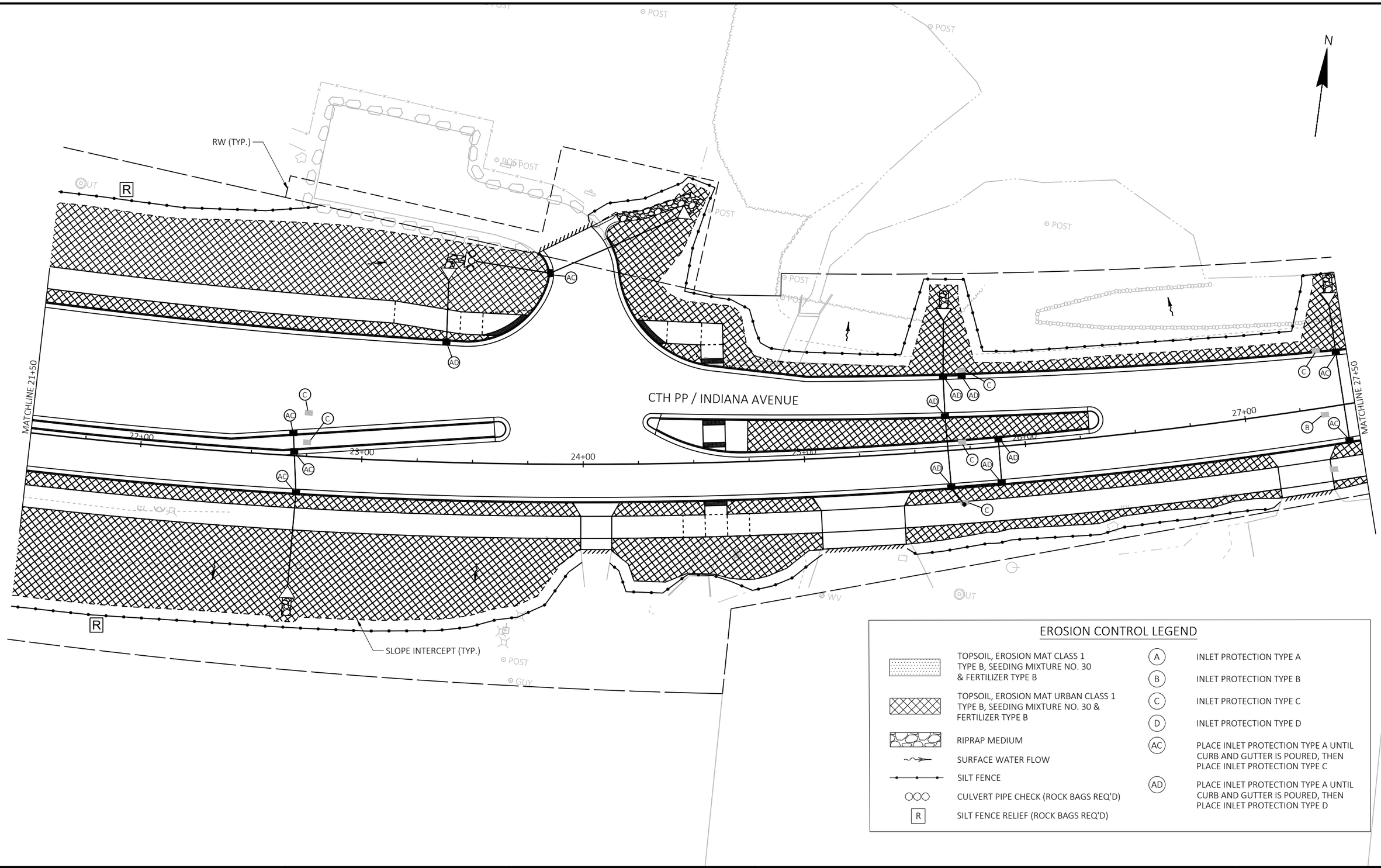
EROSION CONTROL LEGEND

- TOPSOIL, EROSION MAT CLASS 1 TYPE B, SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B
- TOPSOIL, EROSION MAT URBAN CLASS 1 TYPE B, SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW
- SILT FENCE
- CULVERT PIPE CHECK (ROCK BAGS REQ'D)
- R — SILT FENCE RELIEF (ROCK BAGS REQ'D)
- A — INLET PROTECTION TYPE A
- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- D — INLET PROTECTION TYPE D
- AC — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE C
- AD — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE D

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET 45	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - 022003_ec
PLOT DATE : 9/28/2021 7:13 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2



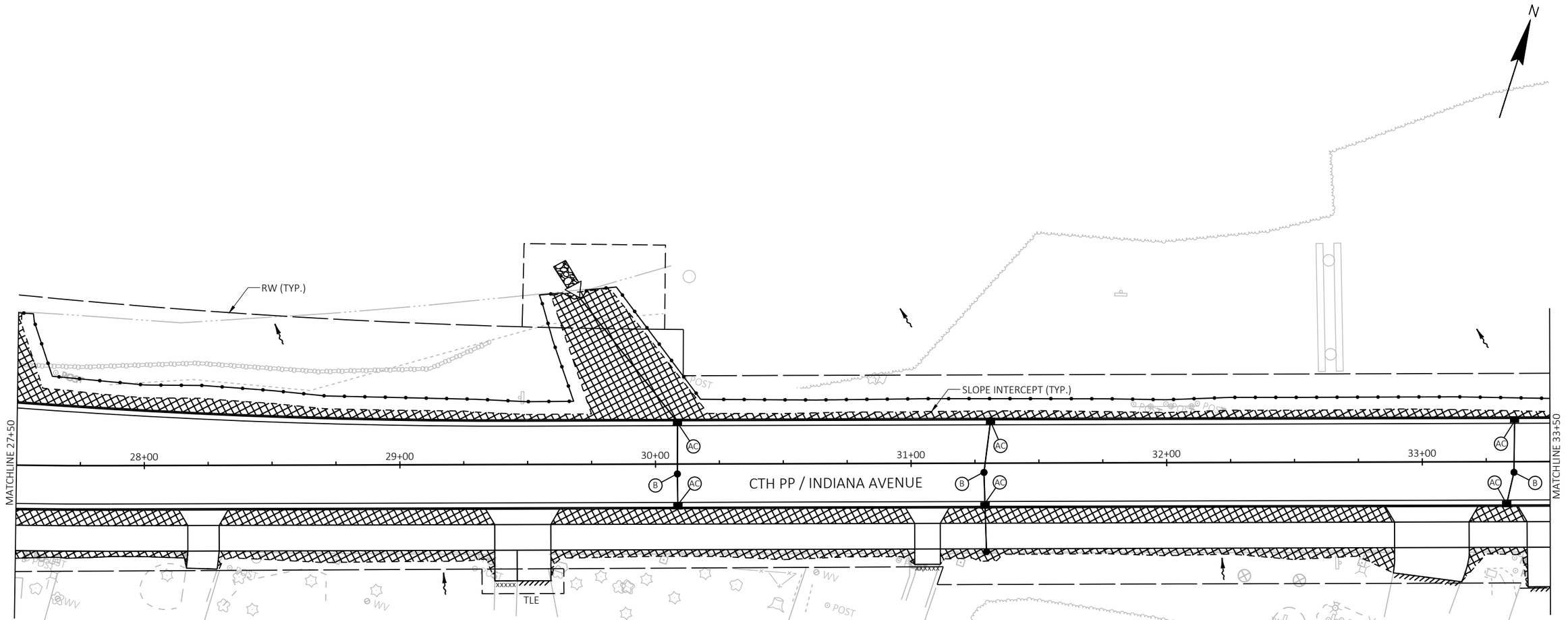
EROSION CONTROL LEGEND

TOPSOIL, EROSION MAT CLASS 1 TYPE B, SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B	A — INLET PROTECTION TYPE A
TOPSOIL, EROSION MAT URBAN CLASS 1 TYPE B, SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B	B — INLET PROTECTION TYPE B
RIPRAP MEDIUM	C — INLET PROTECTION TYPE C
SURFACE WATER FLOW	D — INLET PROTECTION TYPE D
SILT FENCE	AC — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE C
CULVERT PIPE CHECK (ROCK BAGS REQ'D)	AD — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE D
R — SILT FENCE RELIEF (ROCK BAGS REQ'D)	

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET 46	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - 022004_ec
PLOT DATE : 9/28/2021 7:14 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2



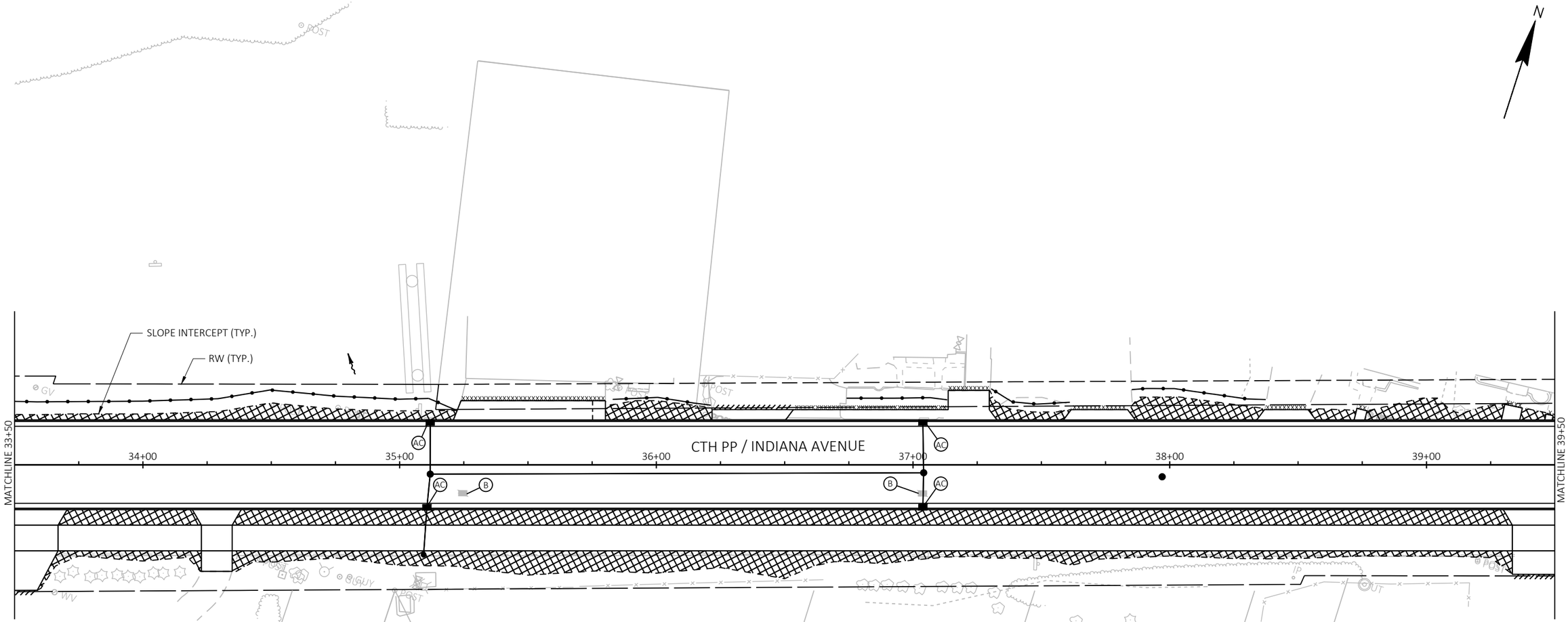
EROSION CONTROL LEGEND

TOPSOIL, EROSION MAT CLASS 1 TYPE B, SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B	A — INLET PROTECTION TYPE A
TOPSOIL, EROSION MAT URBAN CLASS 1 TYPE B, SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B	B — INLET PROTECTION TYPE B
RIPRAP MEDIUM	C — INLET PROTECTION TYPE C
SURFACE WATER FLOW	D — INLET PROTECTION TYPE D
SILT FENCE	AC — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE C
CULVERT PIPE CHECK (ROCK BAGS REQ'D)	AD — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE D
R — SILT FENCE RELIEF (ROCK BAGS REQ'D)	

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET 47	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - 022005_ec
PLOT DATE : 9/28/2021 7:14 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



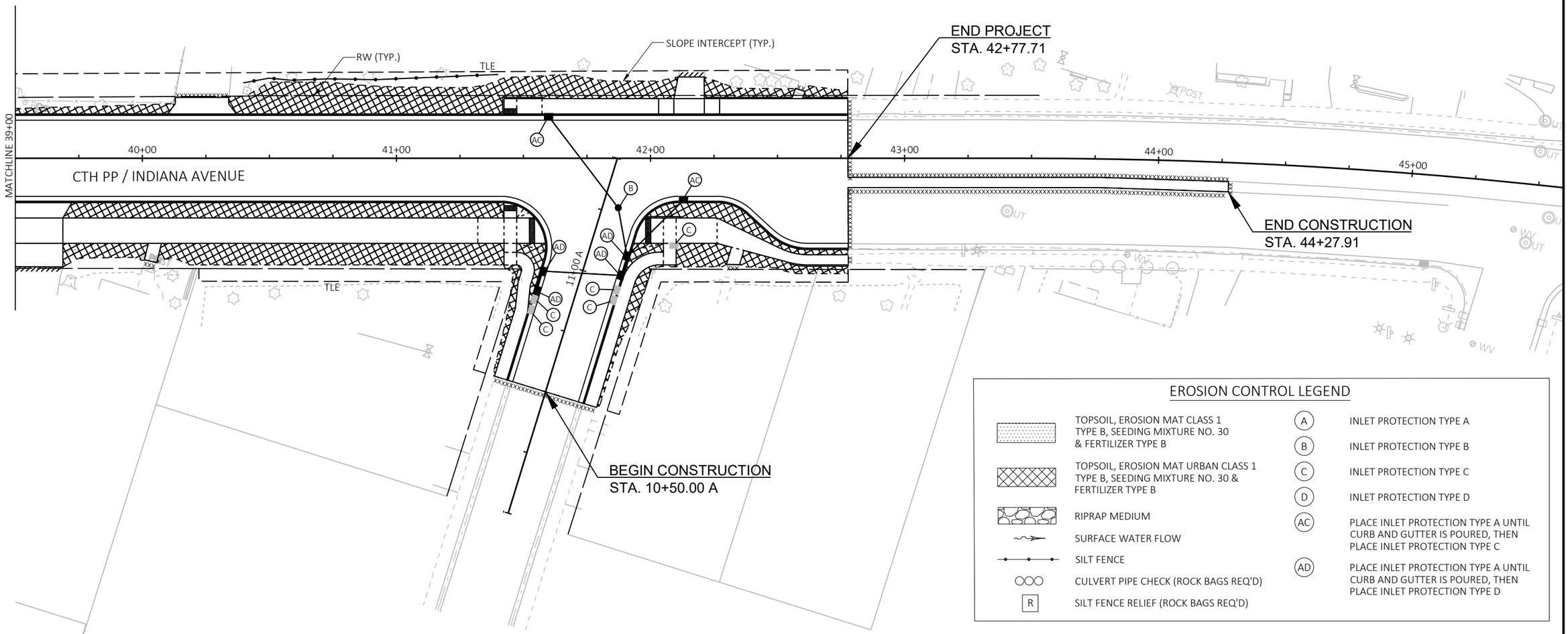
EROSION CONTROL LEGEND

- TOPSOIL, EROSION MAT CLASS 1 TYPE B, SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B
- TOPSOIL, EROSION MAT URBAN CLASS 1 TYPE B, SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B
- RIPRAP MEDIUM
- SURFACE WATER FLOW
- SILT FENCE
- CULVERT PIPE CHECK (ROCK BAGS REQ'D)
- R — SILT FENCE RELIEF (ROCK BAGS REQ'D)
- A — INLET PROTECTION TYPE A
- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- D — INLET PROTECTION TYPE D
- AC — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE C
- AD — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE D

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET 48	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - 022006_ec
PLOT DATE : 9/28/2021 7:14 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



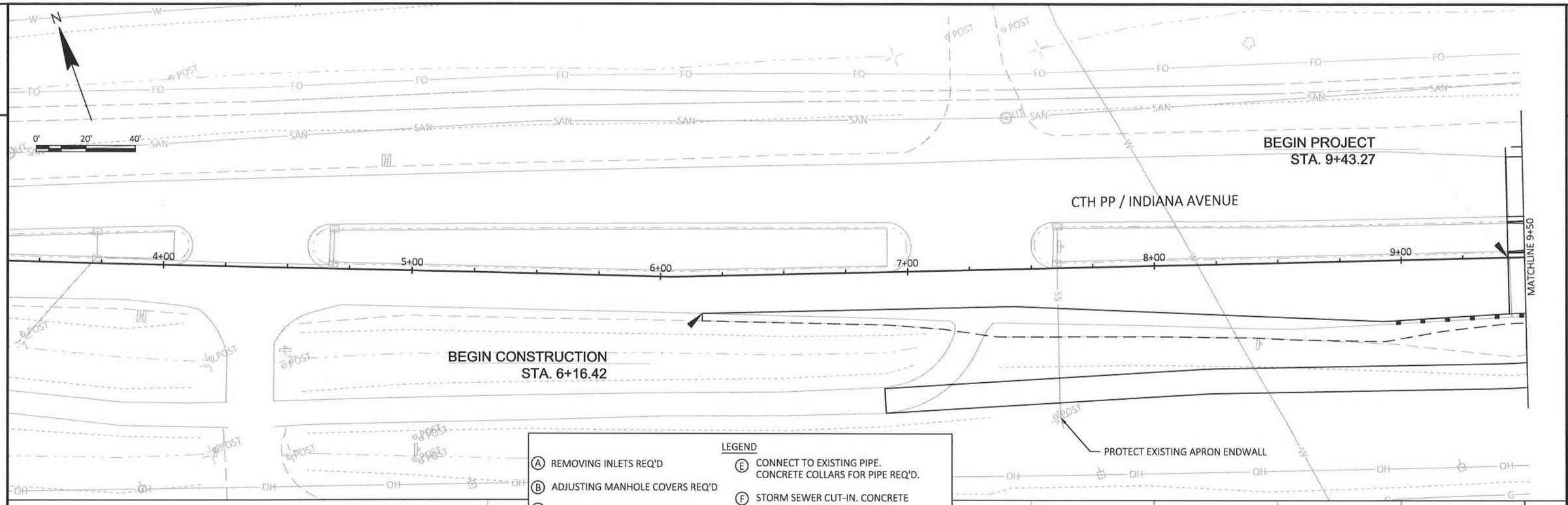
EROSION CONTROL LEGEND

TOPSOIL, EROSION MAT CLASS 1 TYPE B, SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B	A — INLET PROTECTION TYPE A
	B — INLET PROTECTION TYPE B
TOPSOIL, EROSION MAT URBAN CLASS 1 TYPE B, SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B	C — INLET PROTECTION TYPE C
	D — INLET PROTECTION TYPE D
RIPRAP MEDIUM	AC — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE C
SURFACE WATER FLOW	
SILT FENCE	AD — PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE INLET PROTECTION TYPE D
CULVERT PIPE CHECK (ROCK BAGS REQ'D)	
R — SILT FENCE RELIEF (ROCK BAGS REQ'D)	

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET 49	E

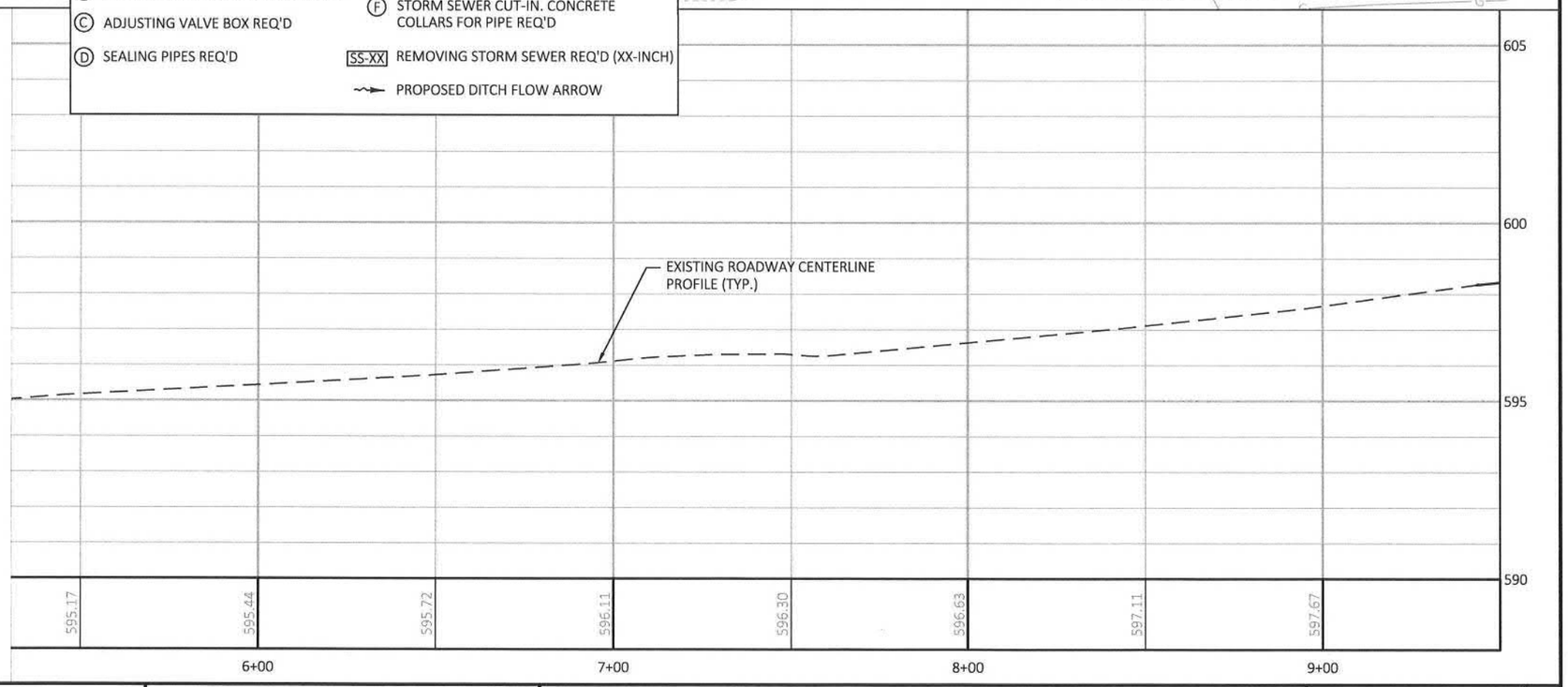
FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - 022007_ec
PLOT DATE : 9/28/2021 7:14 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

- (A) REMOVING INLETS REQ'D
- (B) ADJUSTING MANHOLE COVERS REQ'D
- (C) ADJUSTING VALVE BOX REQ'D
- (D) SEALING PIPES REQ'D
- (E) CONNECT TO EXISTING PIPE. CONCRETE COLLARS FOR PIPE REQ'D.
- (F) STORM SEWER CUT-IN. CONCRETE COLLARS FOR PIPE REQ'D
- [SS-XX] REMOVING STORM SEWER REQ'D (XX-INCH)
- PROPOSED DITCH FLOW ARROW



STORM SEWER PLANS PREPARED BY:

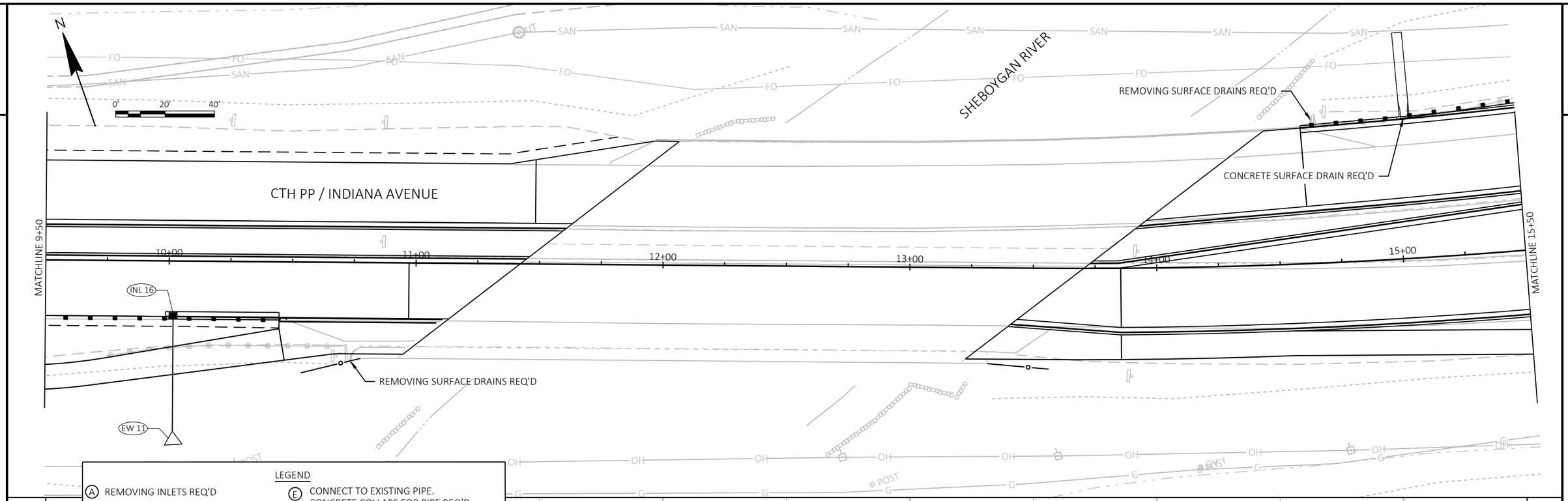
WISCONSIN
ANNA T SUNDERLAND
E-47911
MILWAUKEE WI
PROFESSIONAL ENGINEER

7-27-21
(DATE)

(SIGNATURE)

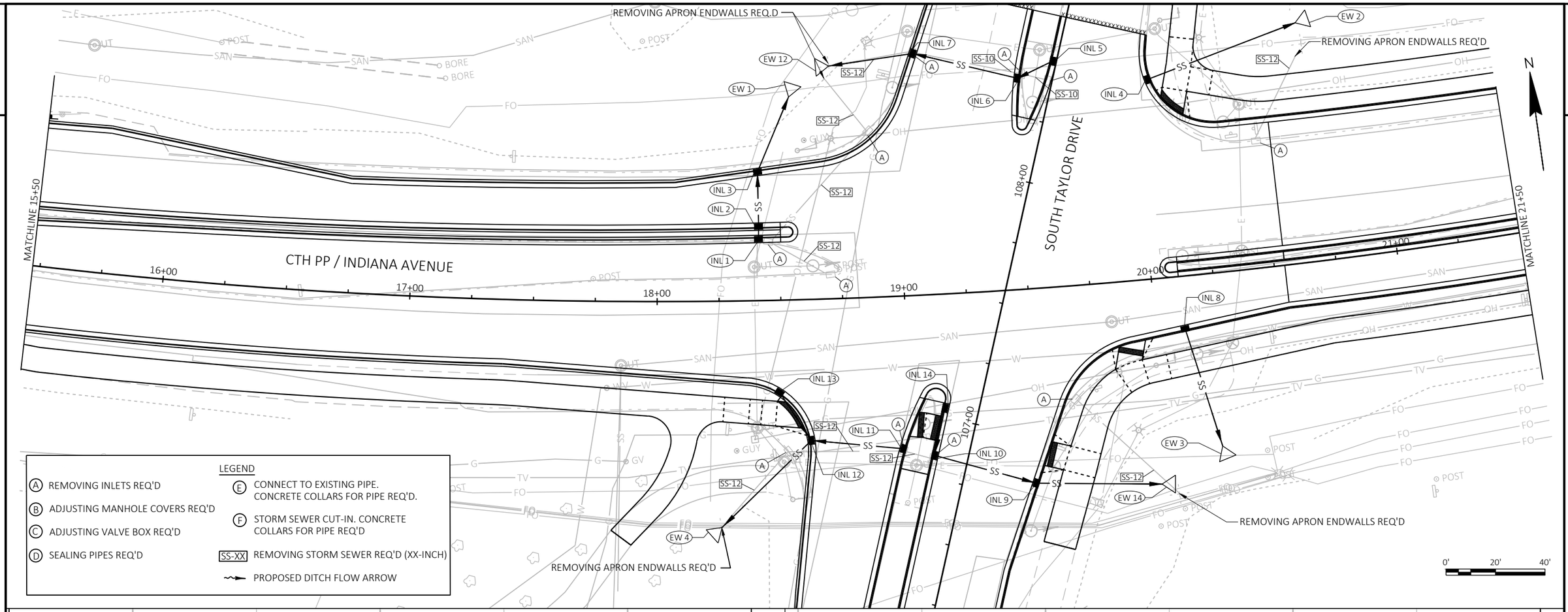
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	STORM SEWER	SHEET 50	E

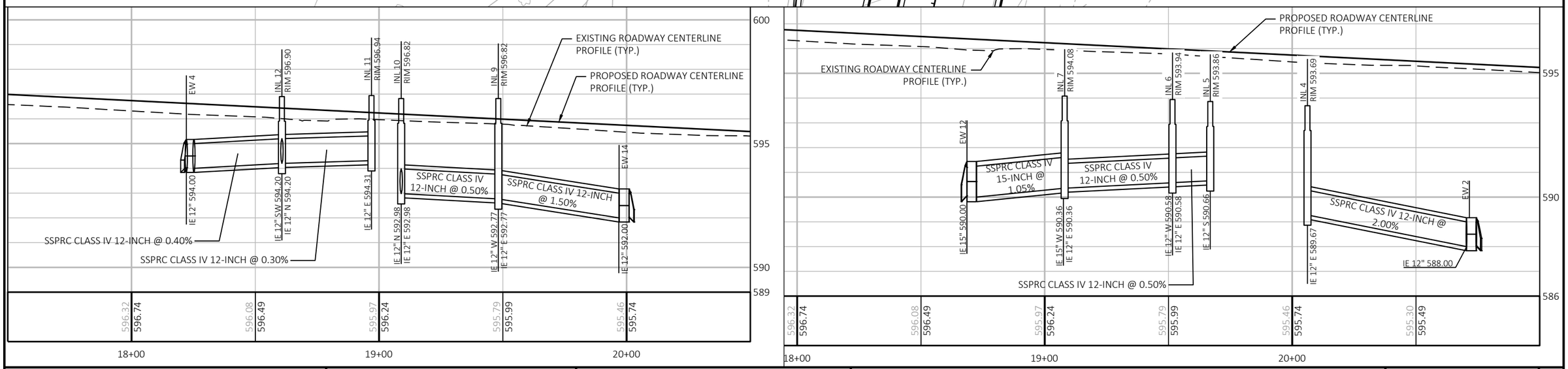
2



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	STORM SEWER	SHEET 51	E

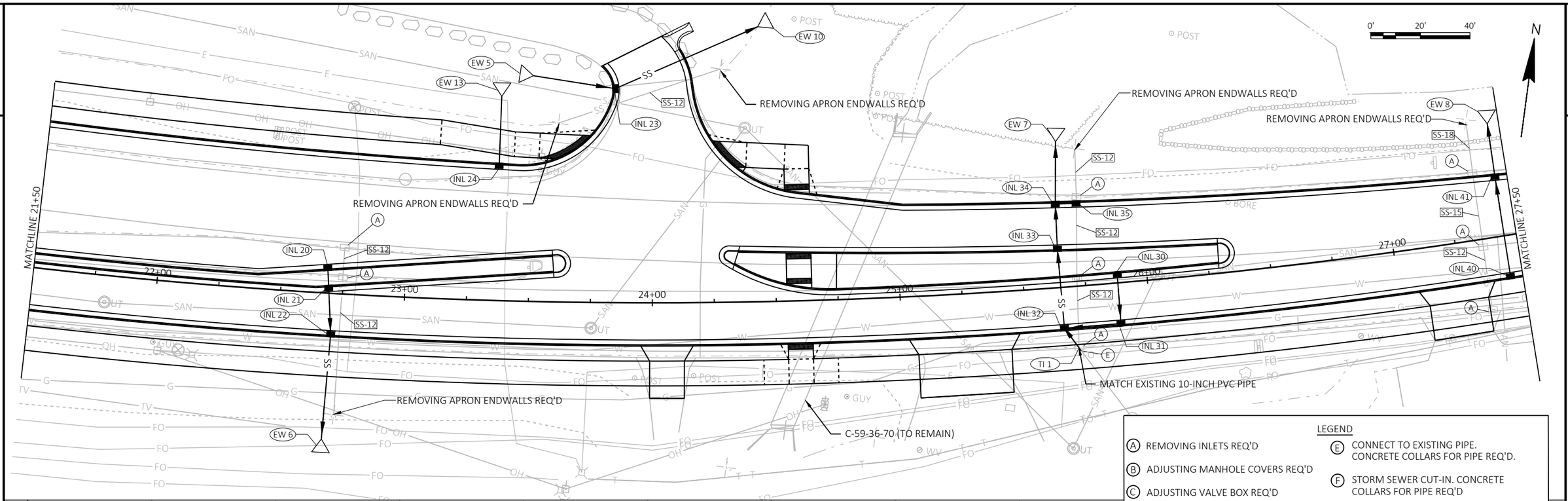
2





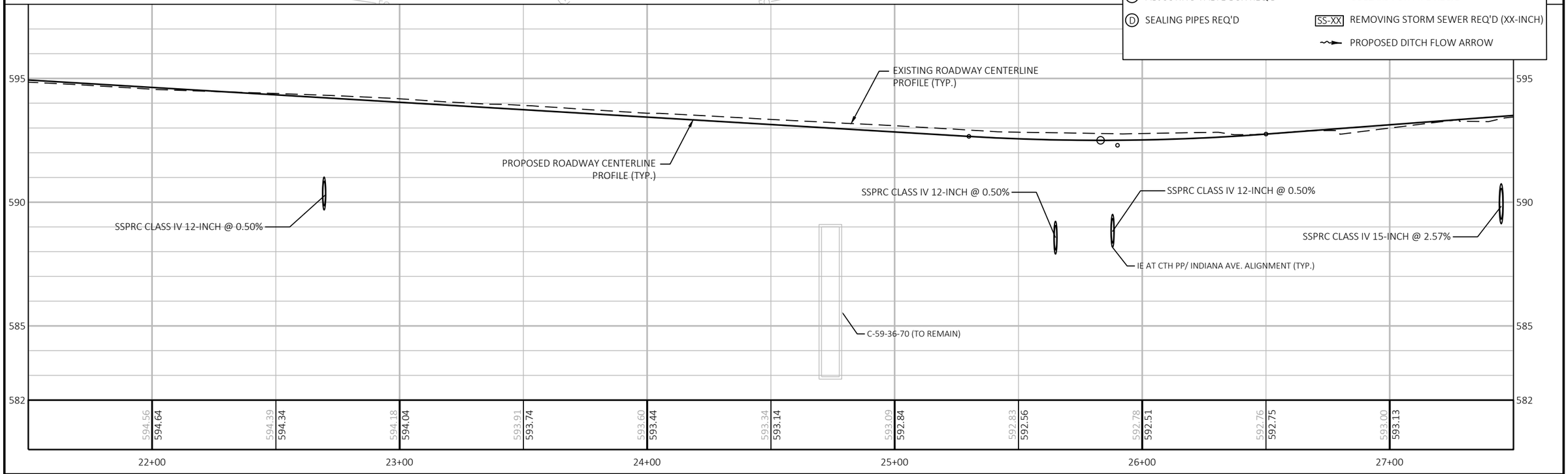
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	STORM SEWER	SHEET 52	E

2



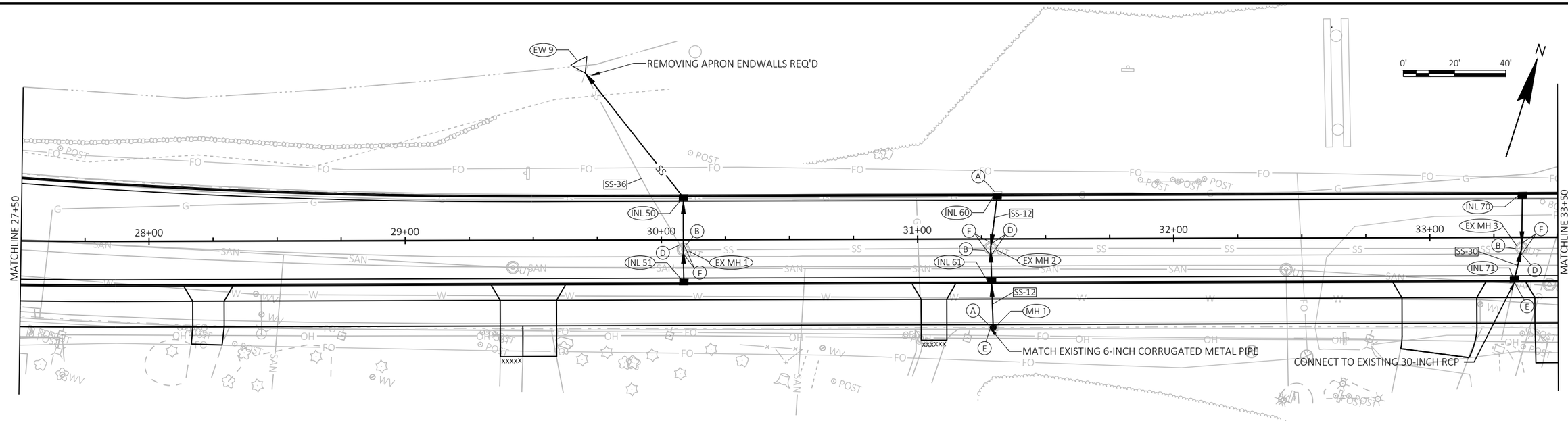
LEGEND

- (A) REMOVING INLETS REQ'D
- (B) ADJUSTING MANHOLE COVERS REQ'D
- (C) ADJUSTING VALVE BOX REQ'D
- (D) SEALING PIPES REQ'D
- (E) CONNECT TO EXISTING PIPE. CONCRETE COLLARS FOR PIPE REQ'D.
- (F) STORM SEWER CUT-IN. CONCRETE COLLARS FOR PIPE REQ'D
- SS-XX REMOVING STORM SEWER REQ'D (XX-INCH)
- PROPOSED DITCH FLOW ARROW



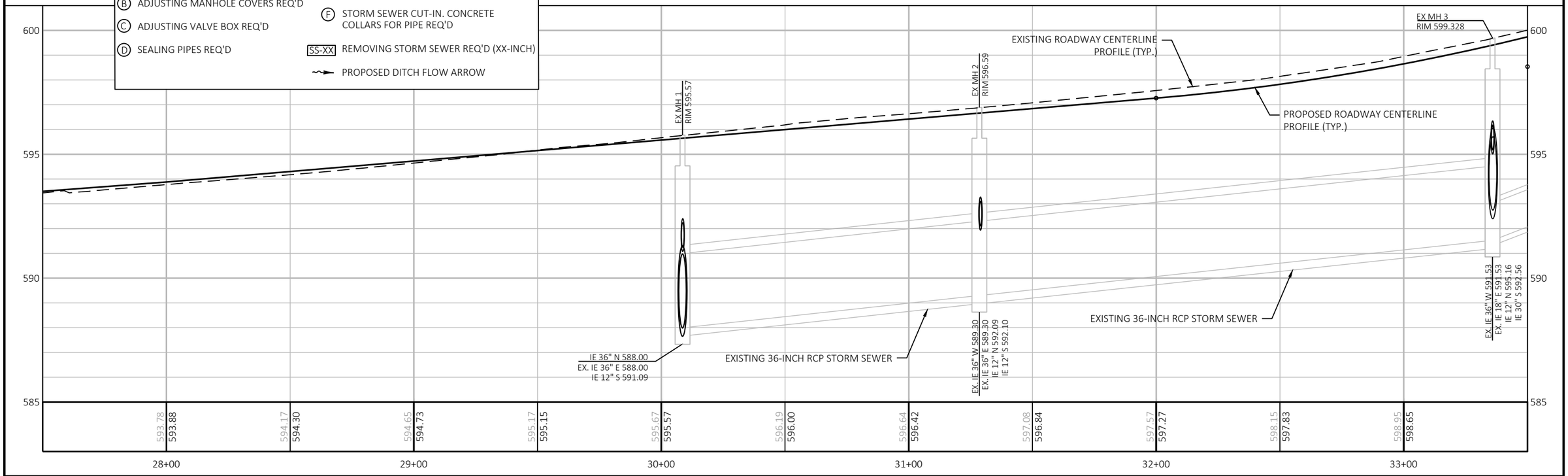
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	STORM SEWER	SHEET 53	E

2

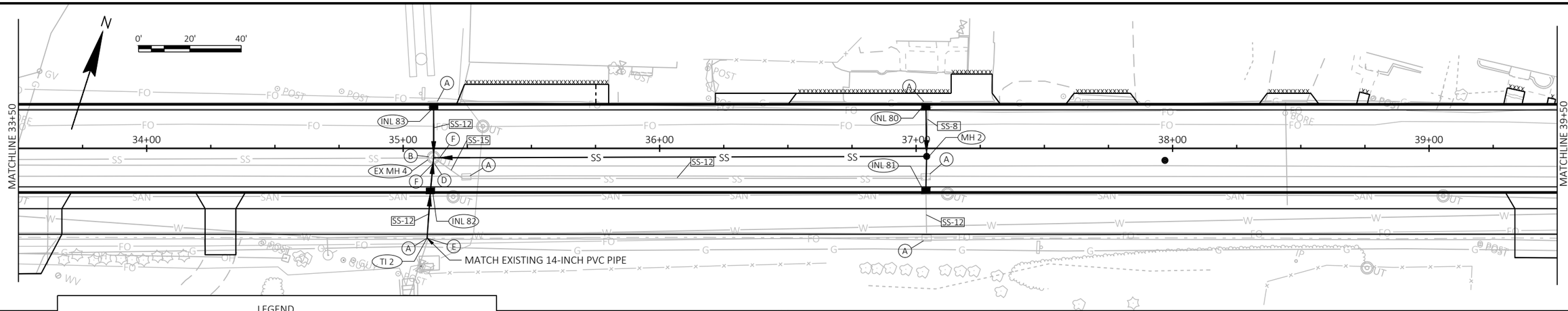


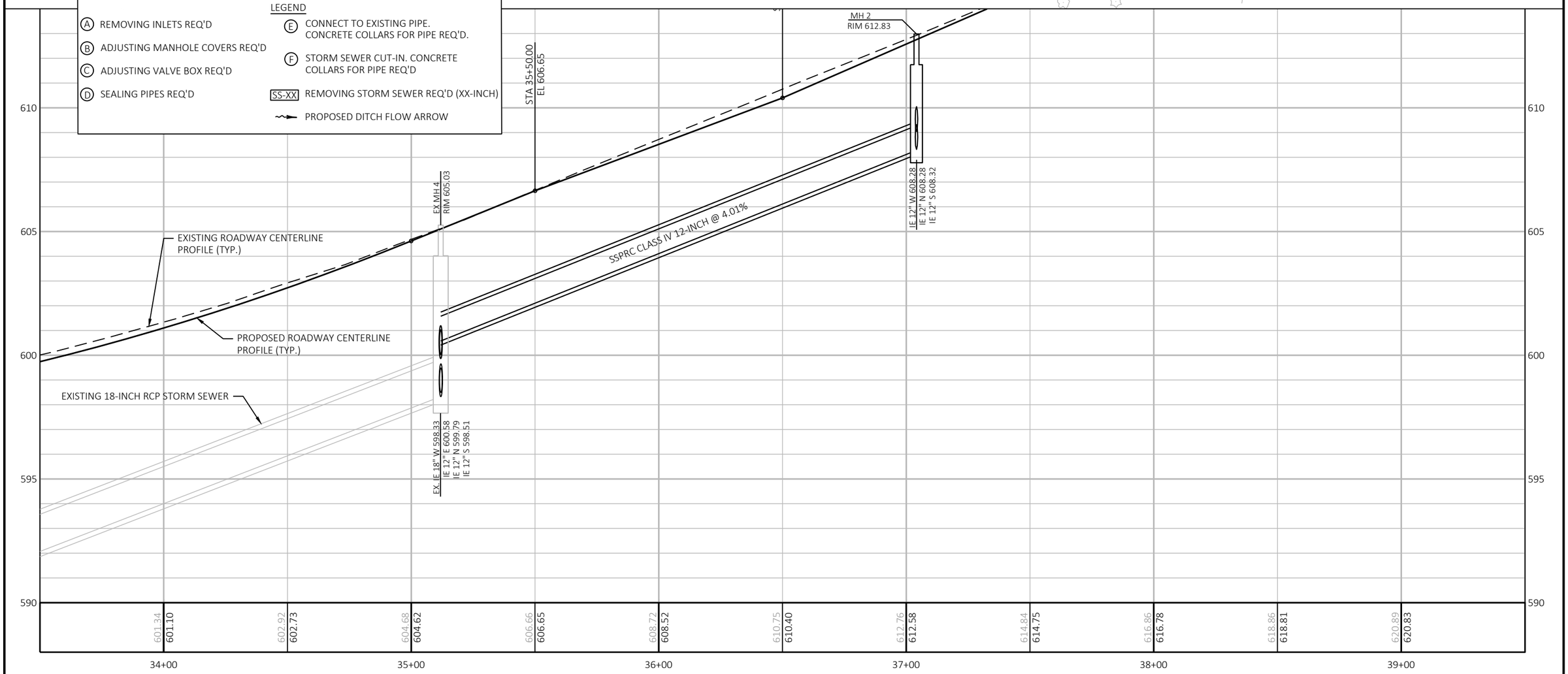
LEGEND

- (A) REMOVING INLETS REQ'D
- (B) ADJUSTING MANHOLE COVERS REQ'D
- (C) ADJUSTING VALVE BOX REQ'D
- (D) SEALING PIPES REQ'D
- (E) CONNECT TO EXISTING PIPE. CONCRETE COLLARS FOR PIPE REQ'D.
- (F) STORM SEWER CUT-IN. CONCRETE COLLARS FOR PIPE REQ'D
- SS-XX REMOVING STORM SEWER REQ'D (XX-INCH)
- PROPOSED DITCH FLOW ARROW



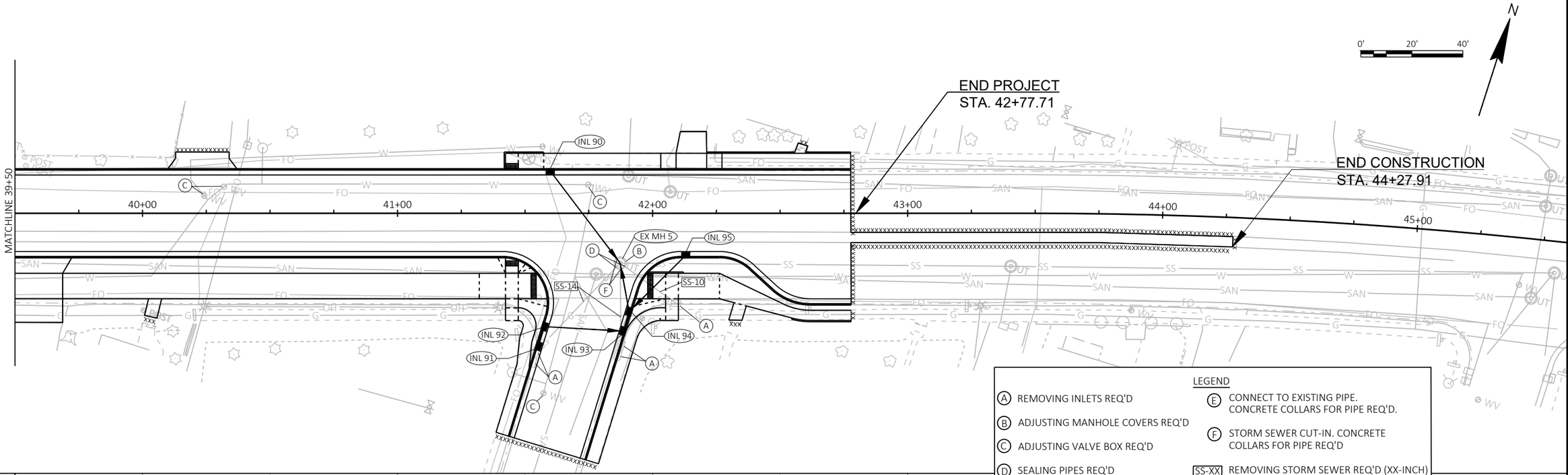
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	STORM SEWER	SHEET 54	E

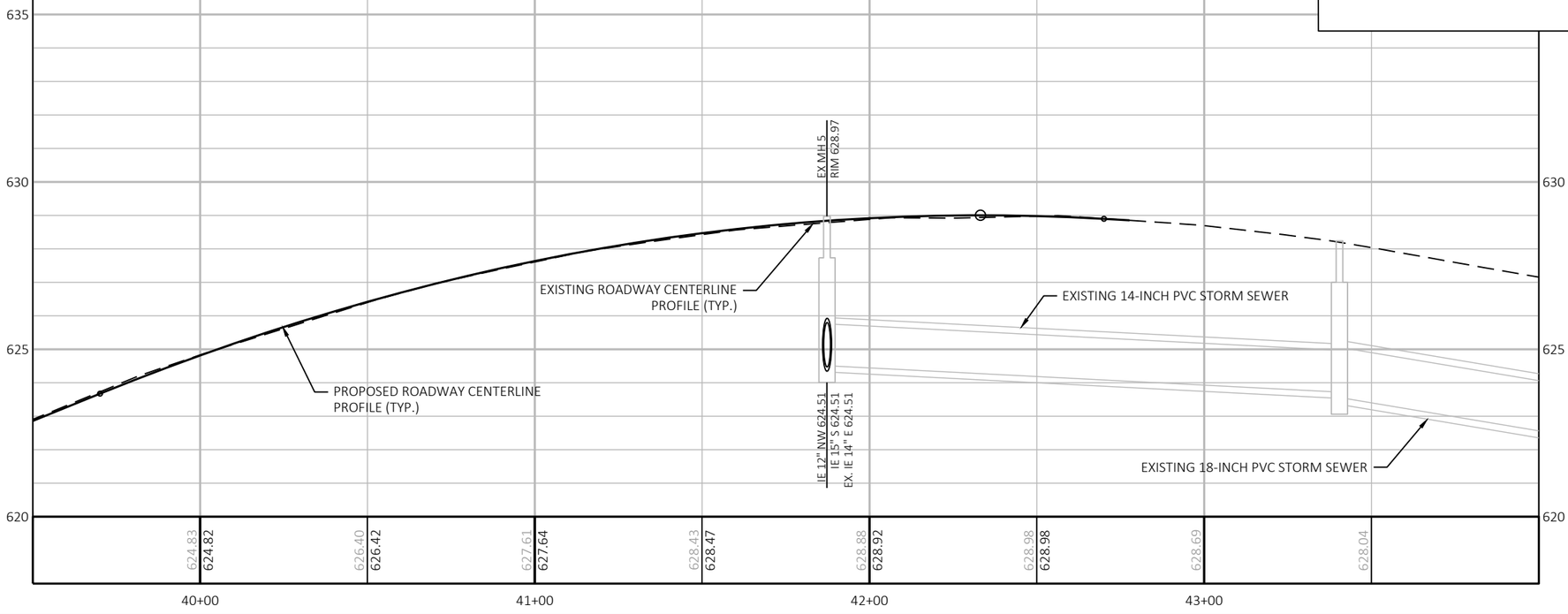




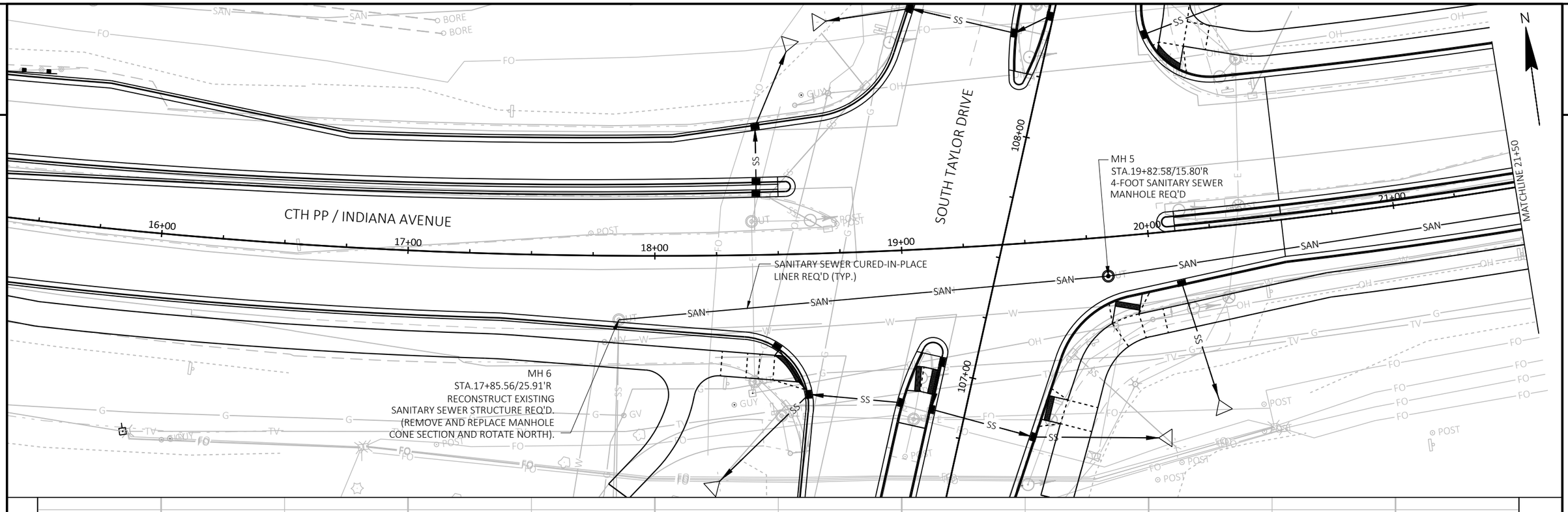
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	STORM SEWER	SHEET 55	E

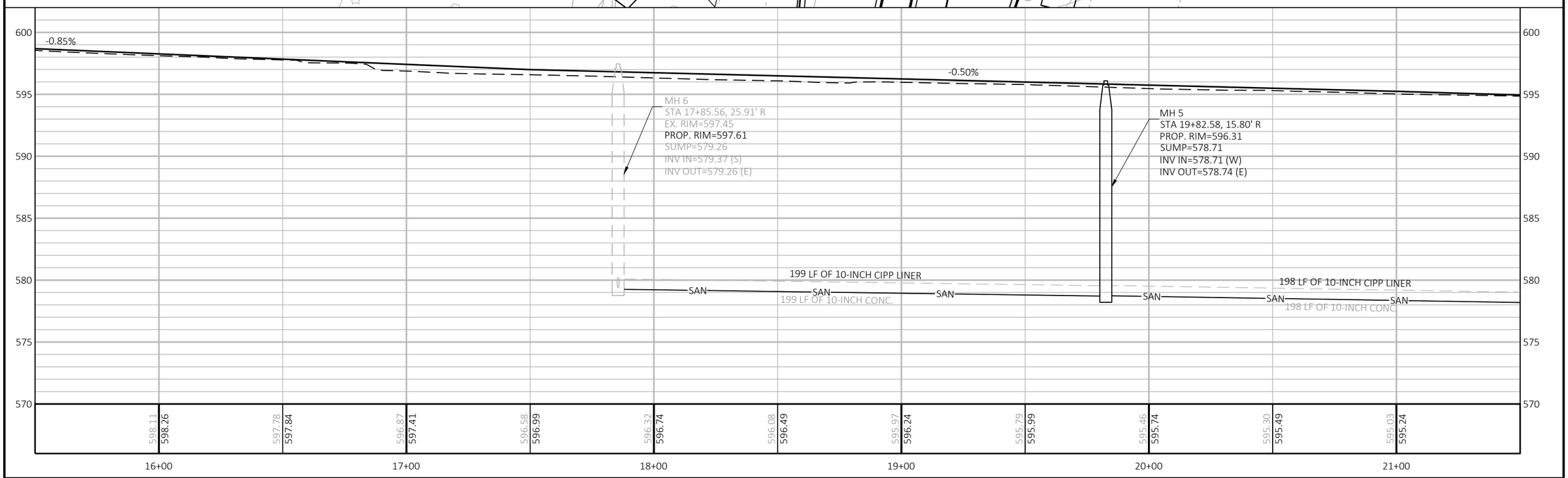
2


N
0'
20'
40'
END PROJECT
STA. 42+77.71
END CONSTRUCTION
STA. 44+27.91
MATCHLINE 39+50
40+00
41+00
42+00
43+00
44+00
45+00
INL 90
EX MH 5
INL 95
SS-14
SS-10
INL 92
INL 93
INL 94
INL 91
LEGEND
A REMOVING INLETS REQ'D
B ADJUSTING MANHOLE COVERS REQ'D
C ADJUSTING VALVE BOX REQ'D
D SEALING PIPES REQ'D
E CONNECT TO EXISTING PIPE. CONCRETE COLLARS FOR PIPE REQ'D.
F STORM SEWER CUT-IN. CONCRETE COLLARS FOR PIPE REQ'D
SS-XX REMOVING STORM SEWER REQ'D (XX-INCH)
PROPOSED DITCH FLOW ARROW


635
630
625
620
EX MH 5
RIM 628.97
EXISTING ROADWAY CENTERLINE PROFILE (TYP.)
PROPOSED ROADWAY CENTERLINE PROFILE (TYP.)
EXISTING 14-INCH PVC STORM SEWER
EXISTING 18-INCH PVC STORM SEWER
IE 12" NW 624.51
IE 15" S 624.51
EX. IE 14" E 624.51
624.83
624.82
626.40
626.42
627.61
627.64
628.43
628.47
628.88
628.92
628.98
628.98
628.69
628.04
40+00
41+00
42+00
43+00

STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE					REMARKS
												SIZE (IN)	INLET ELEV.	DISCHARGE ELEV.	LENGTH (FT)	SLOPE (%)	
INL 16	10+01.72	22.0 'RT	47.0	EW 11	2X3-FT	V	-	-	598.24	596.99	1.75	12	595.24	595.00	47	0.50%	
EW 11	10+01.84	69.0 'RT	-	-	-	-	-	-	-	-	-	12	595.00	-	-	-	APRON ENDWALL FOR 12-INCH RCP REQ'D
INL 1	18+41.41	24.9 'LT	5.0	INL 2	2X3-FT	HM	-	-	595.62	594.79	3.66	12	591.13	591.10	5	0.50%	
INL 2	18+41.55	29.9 'LT	22.1	INL 3	2X3-FT	HM	-	-	595.47	594.64	3.54	12	591.10	590.99	22	0.50%	
INL 3	18+41.53	52.0 'LT	32.8	EW 1	4-FT DIAMETER	HM	-	-	594.92	594.09	3.10	12	590.99	590.00	33	3.00%	FLAT TOP 2'X3' OPENING REQ'D
EW 1	18+55.17	82.0 'LT	-	-	-	-	-	-	-	-	-	12	590.00	-	-	-	APRON ENDWALL FOR 12-INCH RCP REQ'D
INL 7	19+08.07	97.7 'LT	34.3	EW 12	4-FT DIAMETER	HM	-	-	594.08	593.25	2.89	15	590.36	590.00	34	1.05%	FLAT TOP 2'X3' OPENING REQ'D
EW 12	18+72.42	94.0 'LT	-	-	-	-	-	-	-	-	-	15	590.00	-	-	-	APRON ENDWALL FOR 15-INCH RCP REQ'D
INL 6	19+51.62	85.2 'LT	43.6	INL 7	4-FT DIAMETER	H-S	-	-	593.94	593.11	2.53	12	590.58	590.36	44	0.50%	FLAT TOP 2'X3' OPENING REQ'D
INL 5	19+66.90	91.1 'LT	15.8	INL 6	4-FT DIAMETER	H-S			593.86	593.03	2.37	12	590.66	590.58	16	0.50%	FLAT TOP 2'X3' OPENING REQ'D
INL 4	20+06.17	80.5 'LT	63.7	EW 2	2X3-FT	H-S	-	-	593.69	592.86	3.58	12	589.28	588.00	64	2.00%	
EW 2	20+67.51	89.6 'LT	-	-	-	-	-	-	-	-	-	12	588.00	-	-	-	APRON ENDWALL FOR 12-INCH RCP REQ'D
INL 8	20+11.70	21.3 'RT	49.7	EW 3	2X3-FT	H	-	-	596.11	595.28	3.31	12	591.97	591.72	50	0.50%	
EW 3	20+70.39	96.8 'LT	-	-	-	-	-	-	-	-	-	12	591.72	-	-	-	APRON ENDWALL FOR 12-INCH RCP REQ'D
INL 9	19+48.19	78.5 'RT	50.7	EW 14	2X3-FT	H	-	-	596.82	595.99	3.22	12	592.77	592.00	51	1.50%	
EW 14	19+96.94	82.9 'RT	-	-	-	-	-	-	-	-	-	12	592.00	-	-	-	APRON ENDWALL FOR 12-INCH RCP REQ'D
INL 14	19+14.02	46.1 'RT	19.5	INL 10	2X3-FT	H-S	-	-	596.72	595.89	2.81	12	593.08	592.98	20	0.50%	
INL 10	19+08.95	64.9 'RT	42.7	INL 9	2X3-FT	H	-	-	596.82	595.99	3.01	12	592.98	592.77	43	0.50%	
INL 11	18+96.94	61.6 'RT	37.4	INL 12	2X3-FT	H			596.94	596.11	1.80	12	594.31	594.20	37	0.30%	
INL 12	18+60.77	56.9 'RT	50.4	EW 4	4-FT DIAMETER	HM	-	-	596.90	596.07	1.87	12	594.20	594.00	50	0.40%	FLAT TOP 2'X3' OPENING REQ'D
EW 4	18+25.20	91.4 'RT	-	-	-	-	-	-	-	-	-	12	594.00	-	-	-	APRON ENDWALL FOR 12-INCH RCP REQ'D
INL 13	18+48.66	37.2 'RT	23.3	INL 12	4-FT DIAMETER	HM	-	-	597.17	596.34	2.07	12	594.27	594.20	23	0.30%	FLAT TOP 2'X3' OPENING REQ'D
INL 24	23+36.71	54.4 'LT	28.0	EW 13	2X3-FT	H	-	-	592.20	591.37	2.23	12	589.14	589.00	28	0.50%	
EW 13	23+36.93	82.3 'LT	-	-	-	-	-	-	-	-	-	12	589.00	-	-	-	APRON ENDWALL FOR 12-INCH RCP REQ'D
EW 5	23+50.00	91.0 'LT	33.4	INL 23	-	-	-	-	-	-	-	15	585.63	585.53	33	0.30%	APRON ENDWALL FOR 15-INCH RCP REQ'D
INL 23	23+84.47	86.3 'LT	62.6	EW 10	4-FT DIAMETER	H	-	-	589.49	588.66	3.13	15	585.53	585.34	63	0.30%	FLAT TOP 2'X3' OPENING REQ'D
EW 10	24+44.75	110.8 'LT	-	-	-	-	-	-	-	-	-	15	585.34	-	-	-	APRON ENDWALL FOR 15-INCH RCP REQ'D
INL 20	22+68.42	10.6 'LT	8.1	INL 21	2X3-FT	H	-	-	593.79	592.96	3.18	12	589.78	589.74	8	0.50%	
INL 21	22+69.29	2.1 'LT	18.0	INL 22	2X3-FT	H	-	-	594.01	593.18	3.44	12	589.74	589.65	18	0.50%	
INL 22	22+71.18	16.5 'RT	42.7	EW 6	2X3-FT	H	-	-	594.49	593.66	4.01	12	589.65	589.44	43	0.50%	
EW 6	22+69.90	58.8 'RT	-	-	-	-	-	-	-	-	-	12	589.44	-	-	-	APRON ENDWALL FOR 12-INCH RCP REQ'D
INL 30	25+88.07	3.5 'LT	19.9	INL 31	2X3-FT	H-S	-	-	592.25	591.42	3.18	12	588.24	588.14	20	0.50%	
INL 31	25+87.90	16.4 'RT	22.9	INL 32	2X3-FT	H-S	-	-	592.78	591.95	3.80	12	588.14	588.03	23	0.50%	
TI 1	25+70.41	24.8 'RT	9.8	INL 32	-	-	-	-	-	-	-	10	590.40	590.20	10	1.97%	CONNECT TO EXISTING 10-INCH PVC PIPE
INL 32	25+65.21	16.5 'RT	32.1	INL 33	2X3-FT	H-S	-	-	592.80	591.97	3.94	12	588.03	587.87	32	0.50%	
INL 33	25+64.75	15.6 'LT	18.1	INL 34	2X3-FT	H-S	-	-	591.97	591.14	3.28	12	587.87	587.78	18	0.50%	
INL 34	25+65.26	33.7 'LT	25.1	EW 7	2X3-FT	H-S	-	-	591.54	590.71	3.21	12	587.50	587.37	25	0.50%	
EW 7	25+67.32	58.7 'LT	-	-	-	-	-	-	-	-	-	12	587.37	-	-	-	APRON ENDWALL FOR 12-INCH RCP REQ'D
INL 35	25+73.76	33.3 'LT	8.4	INL 34	2X3-FT	H-S	-	-	591.55	590.72	3.18	12	587.54	587.50	8	0.50%	
INL 40	27+45.03	16.5 'RT	40.7	INL 41	2X3-FT	H	-	-	593.74	592.91	3.18	15	589.74	588.69	41	2.55%	
INL 41	27+45.10	24.2 'LT	21.5	EW 8	2X3-FT	H	-	-	592.79	591.96	3.27	18	588.69	587.97	21	3.42%	
EW 8	27+45.36	45.6 'LT	-	-	-	-	-	-	-	-	-	18	587.97	-	-	-	APRON ENDWALL FOR 18- INCH RCP REQ'D
INL 51	30+08.71	16.5 'RT	12.6	EX MH 1	2X3-FT	H	-	-	595.16	594.33	3.18	12	591.15	591.09	13	0.50%	
EX MH 1	30+08.55	3.9 'RT	20.4	INL 50	-	-	-	-	595.57	-	-	36	588.00	587.90	20	0.50%	
INL 50	30+08.65	16.5 'LT	62.0	EW 9	5-FT DIAMETER	H	-	-	595.13	594.30	6.41	36	587.90	584.80	62	5.00%	FLAT TOP 2'X3' OPENING REQ'D
EW 9	29+70.42	65.2 'LT	-	-	-	-	-	-	-	-	-	36	584.80	-	-	-	APRON ENDWALL FOR 36-INCH RCP REQ'D
INL 60	31+31.12	16.5 'LT	20.3	EX MH 2	2X3-FT	H	-	-	596.20	595.37	3.18	12	592.19	592.09	20	0.50%	
MH 1	31+29.43	34.6 'RT	18.1	INL 61	-	-	4-FT DIAMETER	J	597.22	595.97	2.82	12	593.16	592.62	18	3.00%	CONNECT TO EXISTING 6-INCH CORREGATED METAL PIPE
INL 61	31+28.86	16.5 'RT	12.9	EX MH 2	2X3-FT	H	-	-	596.18	595.35	3.18	12	592.17	592.10	13	0.50%	
INL 70	33+36.15	16.5 'LT	20.7	EX MH 3	2X3-FT	H	-	-	598.93	598.10	2.84	12	595.26	595.16	21	0.50%	
INL 71	33+32.97	16.5 'RT	12.6	EX MH 3	5-FT DIAMETER	H	-	-	598.86	598.03	5.40	30	592.63	592.56	13	0.50%	FLAT TOP 2'X3' OPENING REQ'D. CONNECT TO EXISTING 30-INCH RCP
INL 80	37+03.83	16.5 'LT	19.6	MH 2	2X3-FT	DW	-	-	612.11	611.28	2.13	12	609.14	609.04	20	0.50%	
INL 81	37+03.83	16.5 'RT	13.4	MH 2	2X3-FT	H	-	-	612.26	611.43	3.04	12	608.38	608.32	13	0.50%	
MH 2	37+04.12	3.1 'RT	192.2	EX MH 4	-	-	4-FT DIAMETER	J-S	612.83	611.58	3.30	12	608.28	600.58	192	4.01%	
TI 2	35+09.33	35.0 'RT	18.5	INL 82	-	-	-	-	-	-	-	14	601.94	600.80	19	6.00%	CONNECT TO EXISTING 14-INCH PVC PIPE
INL 82	35+10.64	16.6 'RT	13.0	EX MH 4	2X3-FT	H	-	-	604.56	603.73	5.16	15	598.57	598.51	13	0.50%	
INL 83	35+11.93	16.5 'LT	20.1	EX MH 4	2X3-FT	H	-	-	604.46	603.63	2.52	12	601.11	599.79	20	6.63%	UTILIZE EXISTING PIPE CUTOUT AT EX MH 4
INL 90	41+59.91	16.5 'LT	45.2	EX MH 5	4-FT DIAMETER	H	-	-	628.09	627.26	2.03	12	625.23	625.01	45	0.50%	FLAT TOP 2'X3' OPENING REQ'D
INL 91	41+55.27	52.0 'RT	8.0	INL 92	2X3-FT	H	-	-	629.22	628.39	3.05	15	625.34	625.30	8	0.50%	
INL 92	41+57.62	44.4 'RT	30.9	INL 93	2X3-FT	H	-	-	628.89	628.06	2.76	15	625.30	625.15	31	0.50%	
INL 93	41+88.47'	46.2 'RT	8.0	INL 94	2X3-FT	H	-	-	628.95	628.12	3.48	15	624.64	624.60	8	0.50%	
INL 94	41+90.82	38.5 'RT	19.3	EX MH 5	5-FT DIAMETER	H	-	-	628.83	628.00	3.40	15	624.60	624.51	19	0.50%	FLAT TOP 2'X3' OPENING REQ'D
INL 95	42+12.98	16.5 'RT	31.2	INL 94	2X3-FT	H-S	-	-	628.63	627.80	1.84	12	625.96	625.81	31	0.50%	





PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	UTILITY PLAN	SHEET 58	E

2

MH 4
STA.21+79.64/10.77'R
RECONSTRUCT EXISTING
SANITARY SEWER STRUCTURE REQ'D.
(REMOVE 3 FEET OF ADJUSTMENT
RINGS, CONE SECTION AND ADD 2.5
FOOT BARREL SECTION).

MH 3
STA.23+75.35/10.33'R
RECONSTRUCT EXISTING
SANITARY SEWER STRUCTURE REQ'D.
(REMOVE 3 FEET OF ADJUSTMENT RINGS, CONE
SECTION AND ADD 2.5 FOOT BARREL SECTION).

MH 31
STA.24+38.60/-70.18'L

MH 30
STA.25+65.20/65.04'R

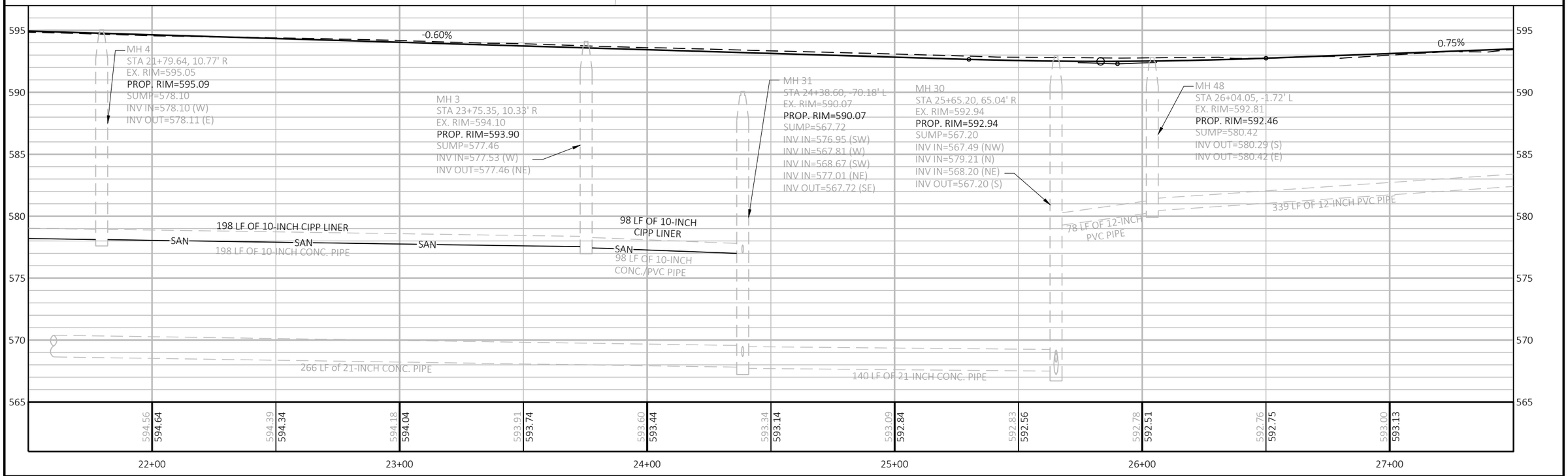
MH 48
STA.26+04.05/-1.72'L
RECONSTRUCT EXISTING
SANITARY SEWER STRUCTURE REQ'D.
(REMOVE AND REPLACE MANHOLE
CONE SECTION AND ROTATE SOUTH).

PROVIDE SANITARY SEWER
CURED-IN-PLACE LINER (TYP.)

MATCHLINE 21+50

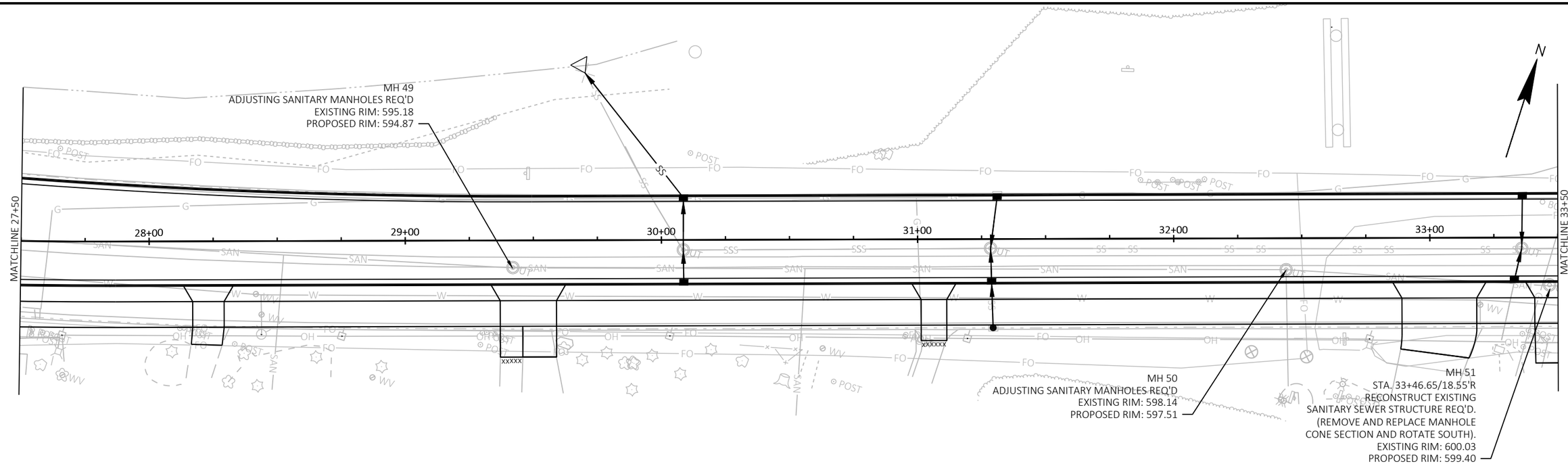
MATCHLINE 27+50

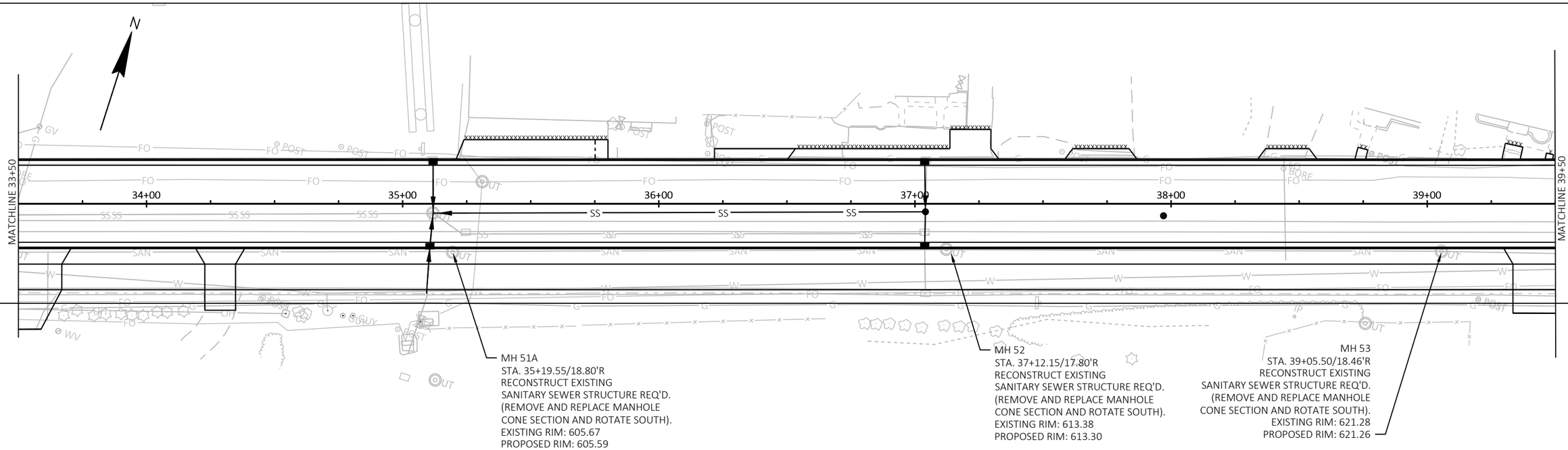
N



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	UTILITY PLAN	SHEET 59	E

2





PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	UTILITY PLAN	SHEET 60	E

2

N

MH 01
ADJUSTING SANITARY MANHOLES REQ'D
EXISTING RIM: 627.97
PROPOSED RIM: 628.56

END PROJECT
STA. 42+77.71

MATCHLINE 39+50

40+00 41+00 42+00 43+00 44+00 45+00

CTH PP / INDIANA AVENUE

END CONSTRUCTION
STA. 44+27.91

MH 54
ADJUSTING SANITARY MANHOLES REQ'D
EXISTING RIM: 628.82
PROPOSED RIM: 628.78

S 24TH STREET

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	UTILITY PLAN	SHEET 61	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\023001_UP.DWG
LAYOUT NAME - 023004_up

PLOT DATE : 9/28/2021 7:47 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

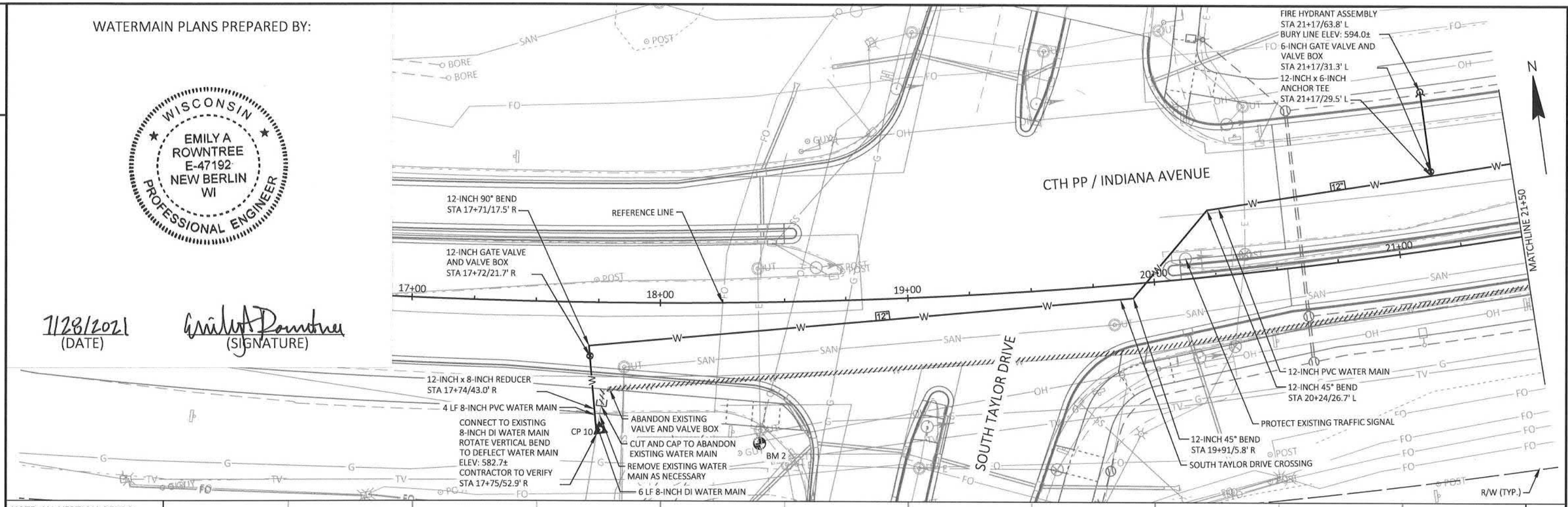
2

WATERMAIN PLANS PREPARED BY:

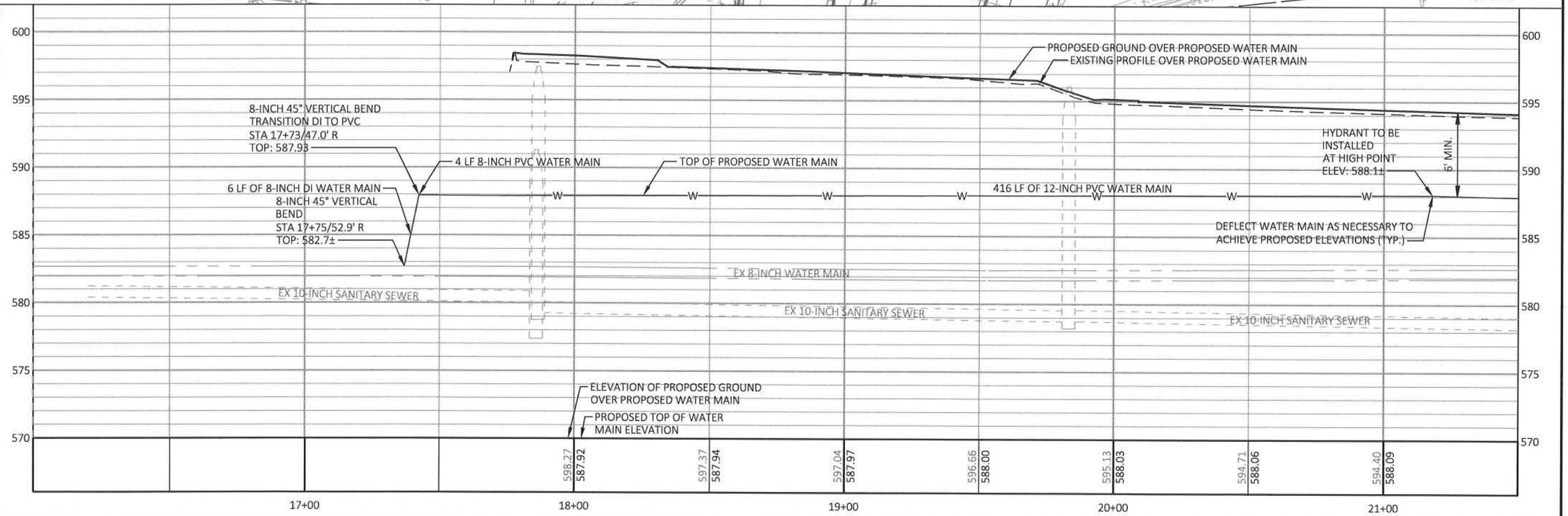
WISCONSIN
EMILY A ROWNTREE E-47192 NEW BERLIN WI
PROFESSIONAL ENGINEER

7/28/2021
(DATE)

Emily A Rowntree
(SIGNATURE)



NOTE: ALL VERTICAL BENDS SHALL BE RESTRAINED 30 FEET ON EITHER SIDE OF UPPER BENDS AND 15 FEET ON EITHER SIDE OF LOWER BENDS.



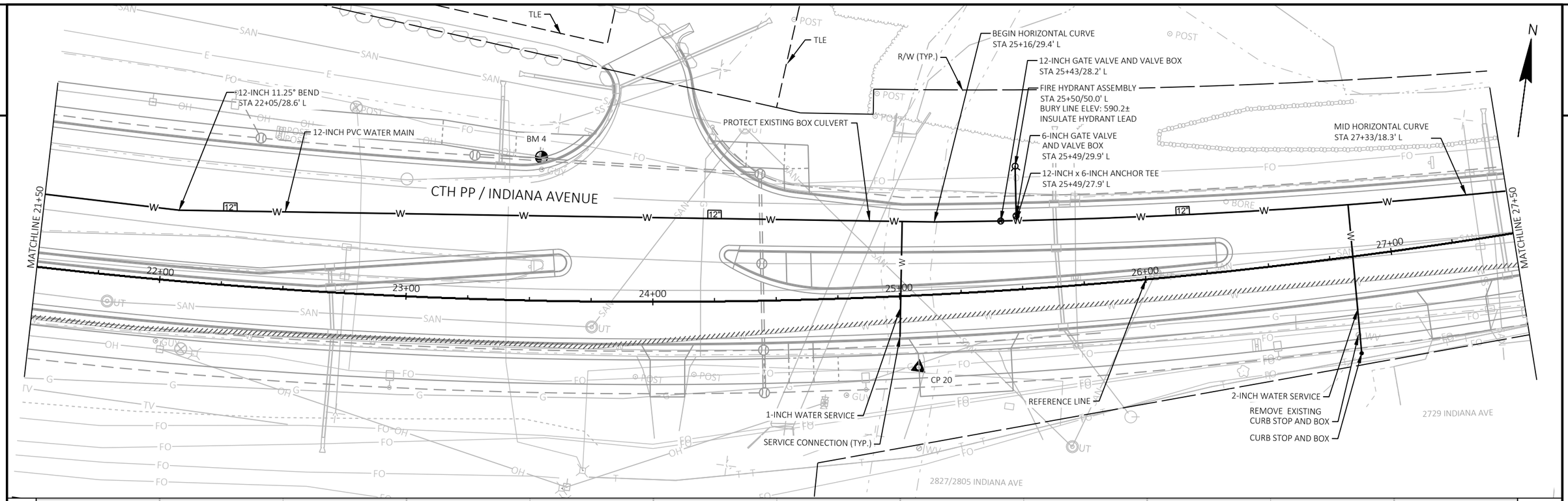
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	WATER MAIN	SHEET 62	E

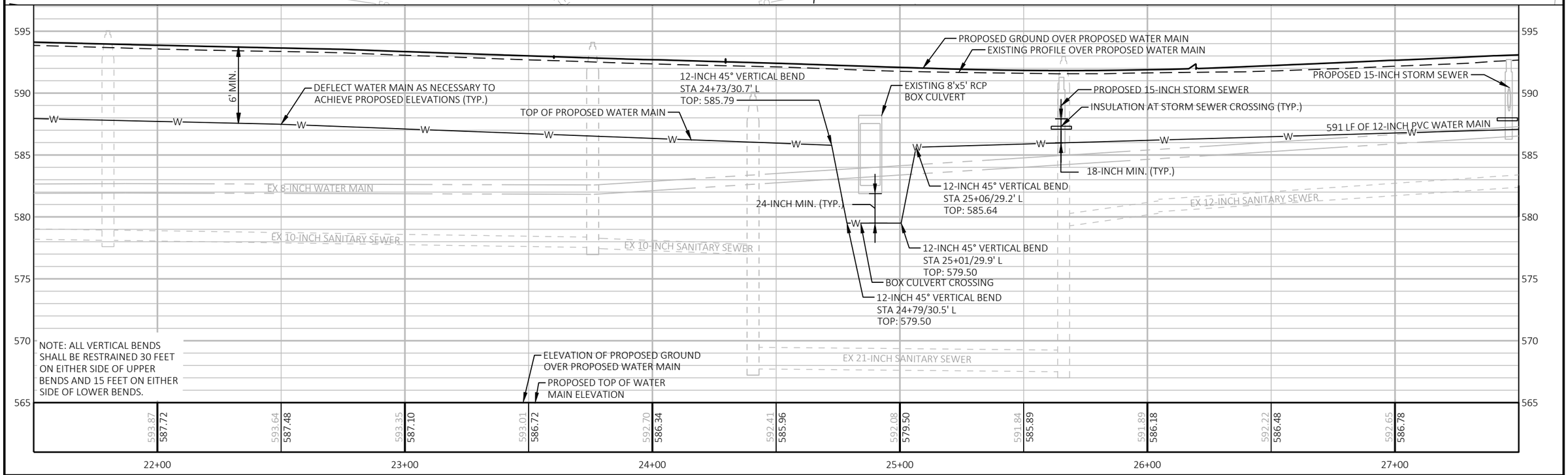
FILE NAME : S:\MIL\4400--4499\4456\005\DRAWINGS\CAD\SHEETS PLAN\022501_WM.DWG
LAYOUT NAME - 022503_wm

PLOT DATE : 7/28/2021 2:45 PM PLOT BY : ROWNTREE, EMILY PLOT NAME :

WISDOT/CADDS SHEET 42

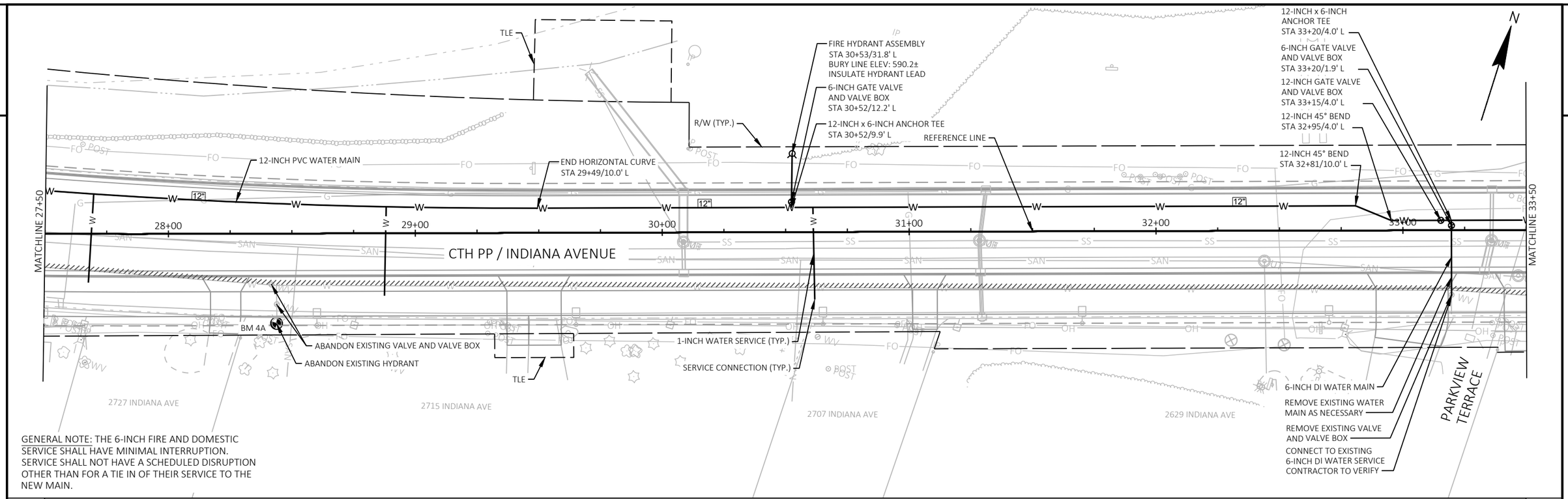
2



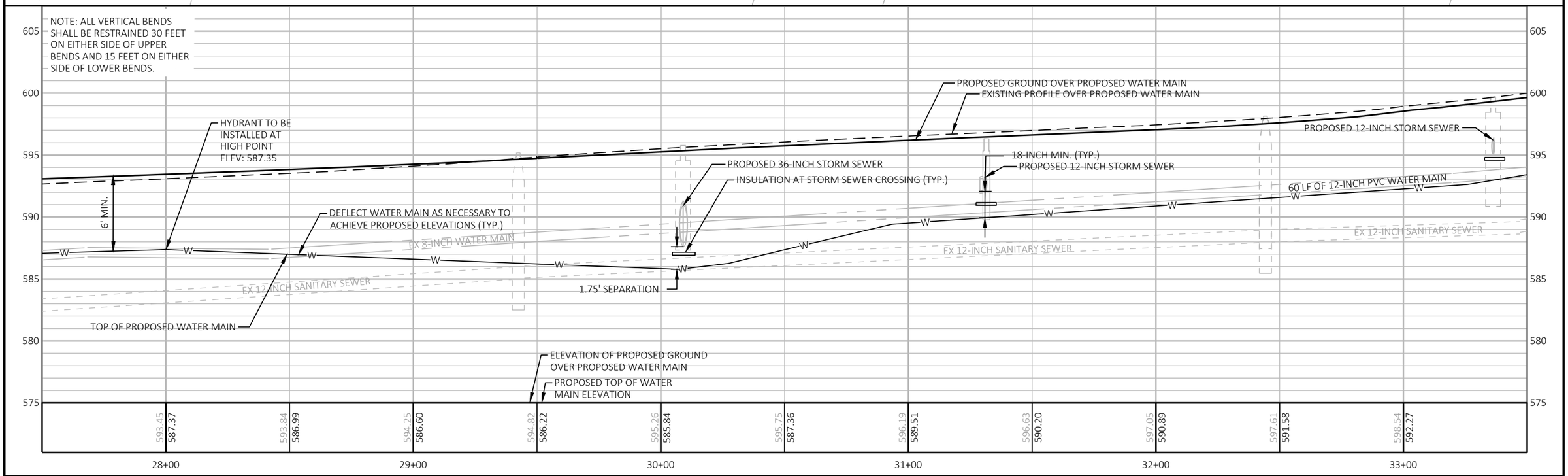


PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	WATER MAIN	SHEET 63	E

2

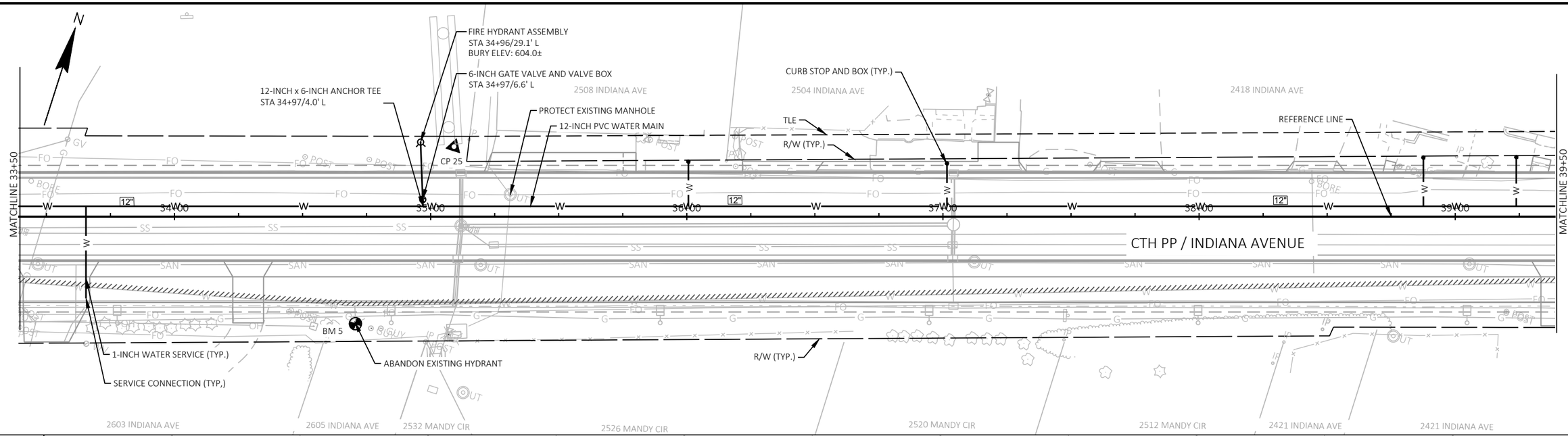


GENERAL NOTE: THE 6-INCH FIRE AND DOMESTIC SERVICE SHALL HAVE MINIMAL INTERRUPTION. SERVICE SHALL NOT HAVE A SCHEDULED DISRUPTION OTHER THAN FOR A TIE IN OF THEIR SERVICE TO THE NEW MAIN.

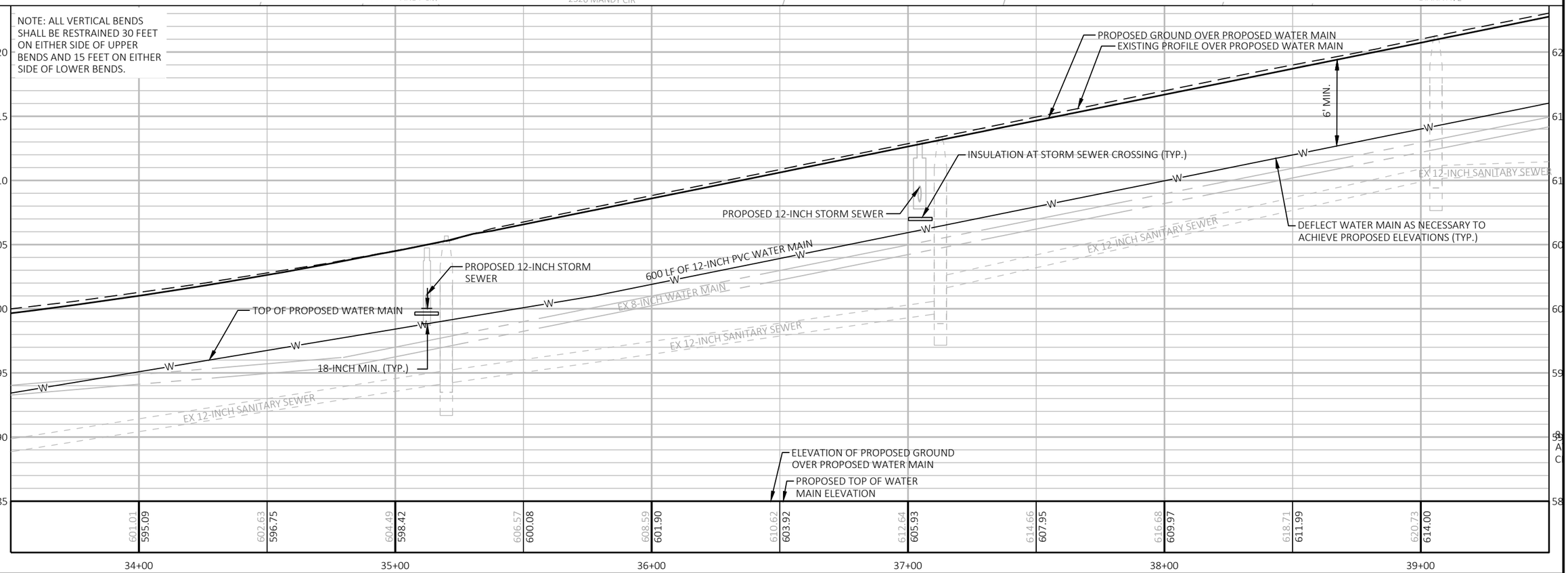


PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	WATER MAIN	SHEET 64	E

2

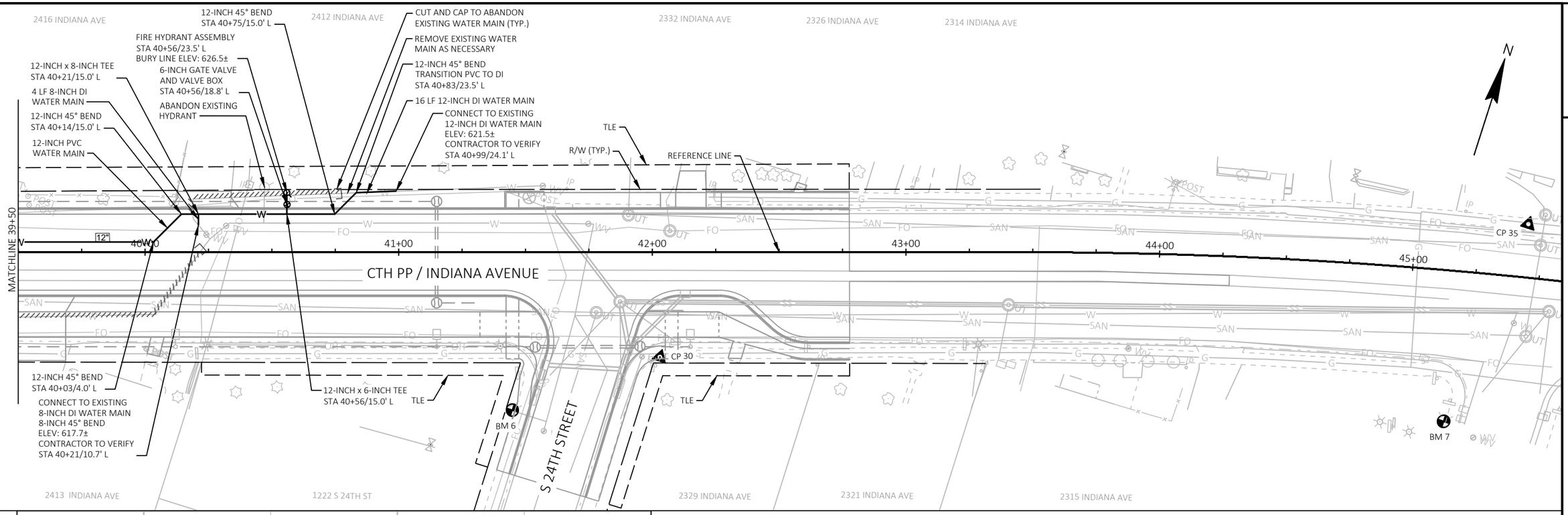


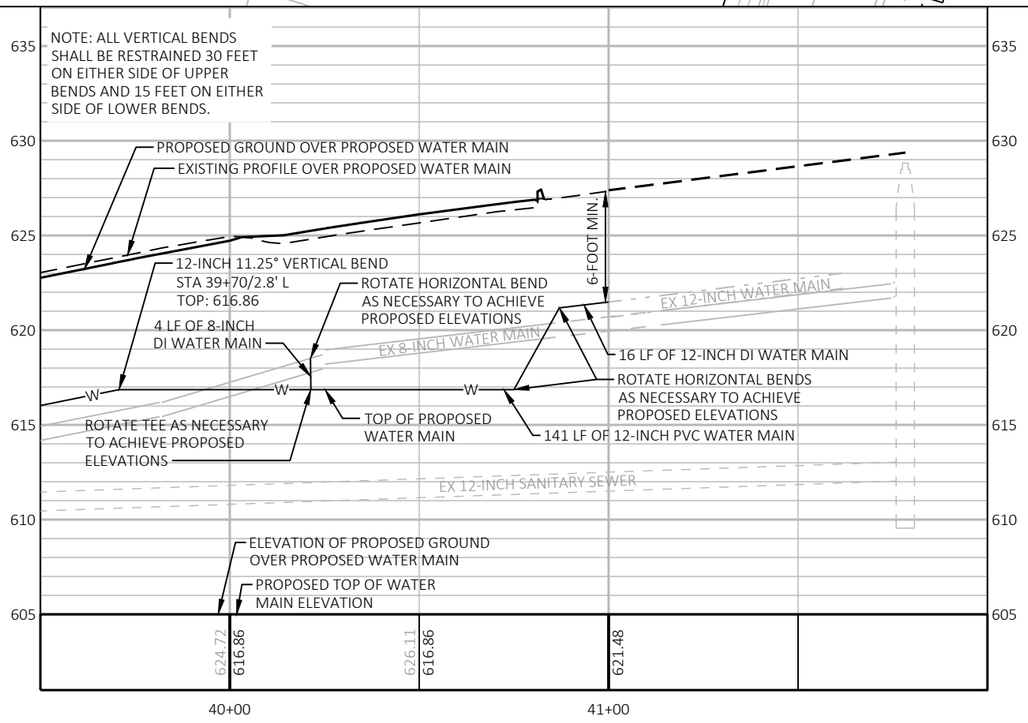
NOTE: ALL VERTICAL BENDS SHALL BE RESTRAINED 30 FEET ON EITHER SIDE OF UPPER BENDS AND 15 FEET ON EITHER SIDE OF LOWER BENDS.



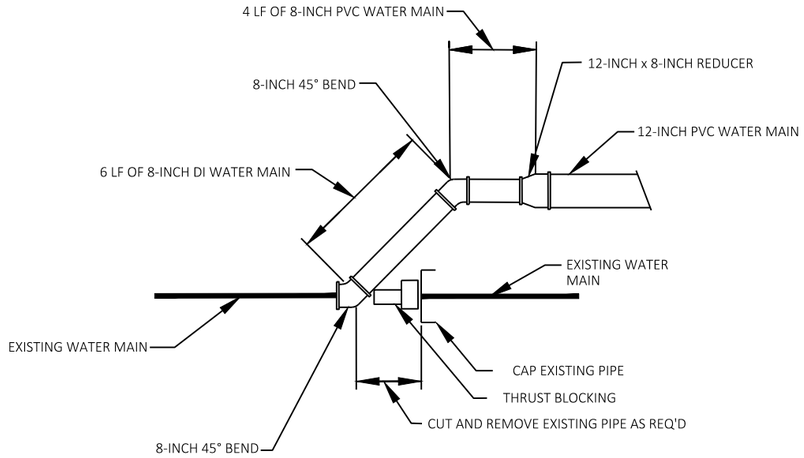
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	WATER MAIN	SHEET 65	E

2



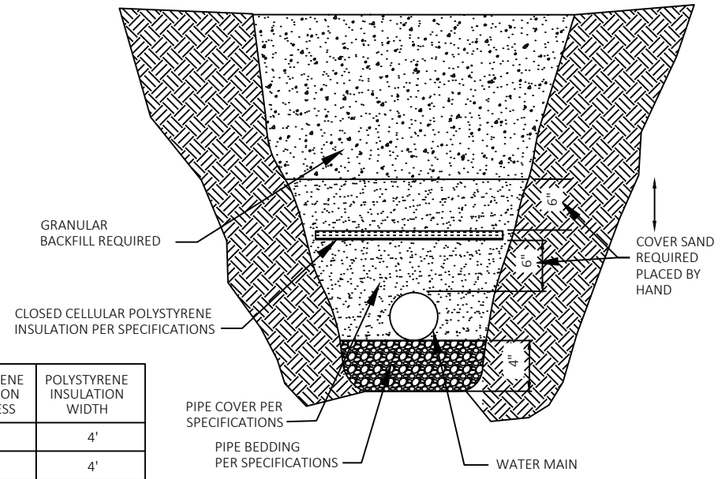


PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	WATER MAIN	SHEET 66	E



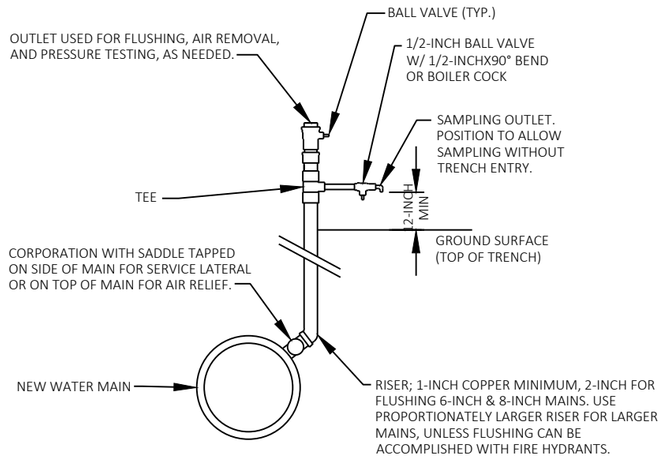
NOTE:
1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED.
2. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE POLYWRAPPED.

CONNECTION TO EXISTING PIPE
NO SCALE



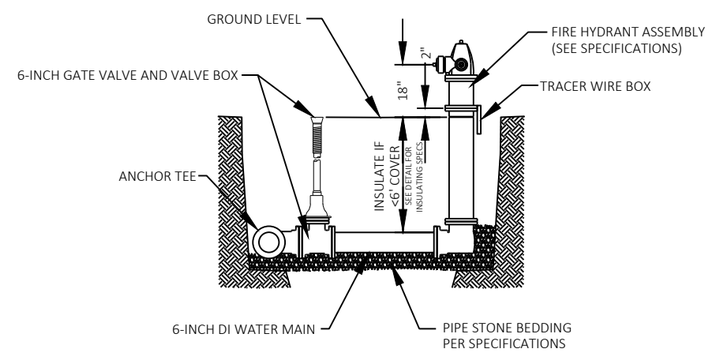
DEPTH OF COVER	POLYSTYRENE INSULATION THICKNESS	POLYSTYRENE INSULATION WIDTH
3.5'	6-INCH	4'
4.0'	5-INCH	4'
4.5'	4-INCH	4'
5.0'	3-INCH	4'
5.5'	2-INCH	4'
6.0'	NOT REQUIRED	

WATER MAIN INSULATION
NO SCALE



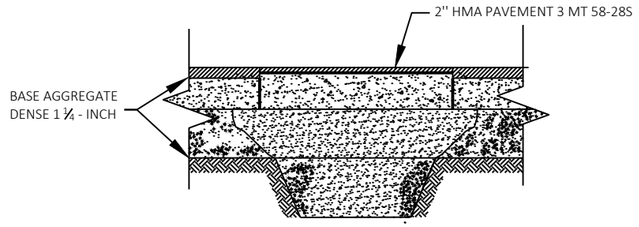
NOTE:
1. WHEN ABANDONING FOR TEMPORARY TAP OR AIR RELIEF, TURN OFF AND ABANDON CORPORATION STOP IN PLACE. REMOVE RISER AND SAMPLING ASSEMBLY.

FLUSHING OR SAMPLING ASSEMBLY (CONTRACTOR SUPPLIED)
NO SCALE



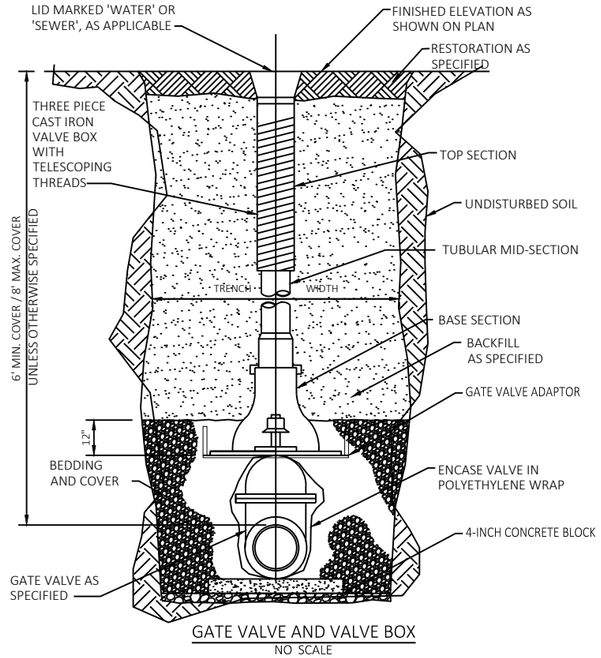
NOTE:
1. ALL JOINTS SHALL BE RESTRAINED.
2. ALL DUCTILE IRON PIPE AND HYDRANT ASSEMBLY SHALL BE POLYWRAPPED.

FIRE HYDRANT ASSEMBLY
NO SCALE

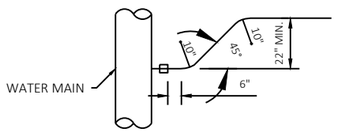


NOTE:
1. SEE SPECIFICATIONS FOR MATERIAL REQUIREMENTS

TEMPORARY TRENCH RESTORATION
NO SCALE



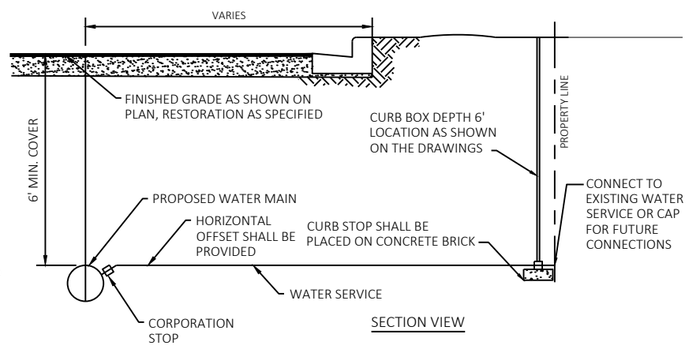
GATE VALVE AND VALVE BOX
NO SCALE



HORIZONTAL OFFSET
PLAN VIEW

NOTES

1. ALL FITTINGS SHALL BE COMPRESSION JOINT TYPE (PER SPEC), AND CONFORM TO AWWA REQUIREMENTS
2. 1 ½-INCH, 1 ½-INCH, OR 2-INCH CORPORATION STOP TO BE ATTACHED TO PVC WATER MAIN WITH SADDLE, UNLESS OTHERWISE SPECIFIED
3. ALL TAPS TO BE MADE UNDER PRESSURE.
4. NO TAPS TO BE CLOSER THAN 18" APART ALONG MAIN
5. ALL BENDS TO BE SMOOTH RADIUS, 10" MIN



SECTION VIEW

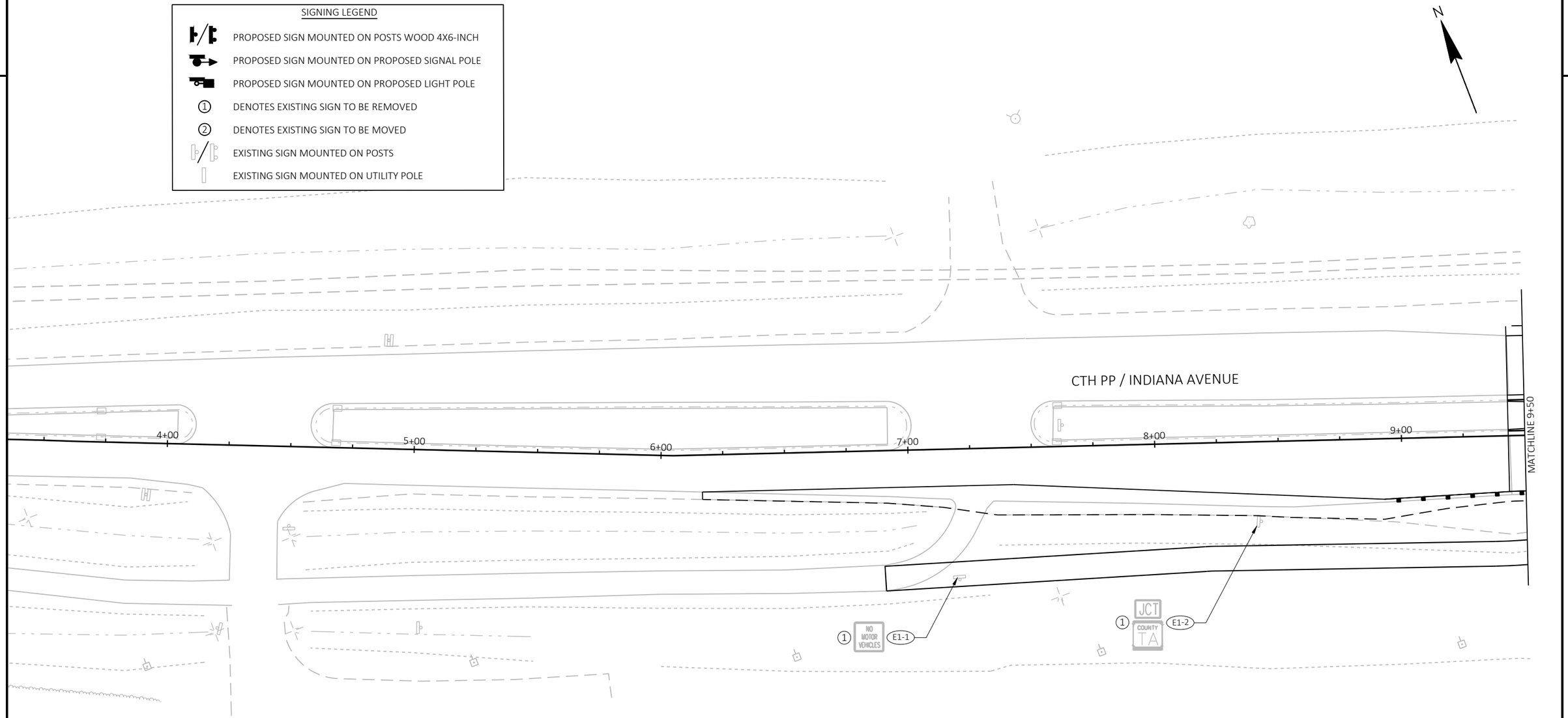
WATER SERVICE
NO SCALE

2

2

SIGNING LEGEND

- PROPOSED SIGN MOUNTED ON POSTS WOOD 4X6-INCH
- PROPOSED SIGN MOUNTED ON PROPOSED SIGNAL POLE
- PROPOSED SIGN MOUNTED ON PROPOSED LIGHT POLE
- (1) DENOTES EXISTING SIGN TO BE REMOVED
- (2) DENOTES EXISTING SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POSTS
- EXISTING SIGN MOUNTED ON UTILITY POLE



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 69	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\023201_PS.DWG
LAYOUT NAME - 023201_ps

PLOT DATE : 9/28/2021 7:30 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

SIGNING LEGEND

- PROPOSED SIGN MOUNTED ON POSTS WOOD 4X6-INCH
- PROPOSED SIGN MOUNTED ON PROPOSED SIGNAL POLE
- PROPOSED SIGN MOUNTED ON PROPOSED LIGHT POLE
- (1) DENOTES EXISTING SIGN TO BE REMOVED
- (2) DENOTES EXISTING SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POSTS
- EXISTING SIGN MOUNTED ON UTILITY POLE

N

SHEBOYGAN RIVER

CTH PP / INDIANA AVENUE

MATCHLINE 9+50

MATCHLINE 15+50

10+00 11+00 12+00 13+00 14+00 15+00

2-1 W3-3 36"X36"

2-2 WEST COUNTY PP J4-1 24"X36"

E2-3 (1) WEST COUNTY PP

E2-4 (1)

(1) E2-5

2-6 BEGIN LEFT TURN LANE R3-20-L 24"X36"

(1) SHEBOYGAN RIVER E2-7

E2-8

E2-9 LEFT TURN (2)

2-10 SHEBOYGAN RIVER I3-1 60"X24"

(2) E2-12 LEFT TURN

SHEBOYGAN RIVER 2-13 I3-1 60"X24"

E2-15 (1)

(1) SHEBOYGAN RIVER E2-14

2-11 W3-3 36"X36"

(1) E2-16

2-18 JCT COUNTY TA J1-1 24"X39"

E2-17 WRONG WAY (1)

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 70	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\023201_PS.DWG
LAYOUT NAME - 023202_ps
PLOT DATE : 9/28/2021 7:30 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

SIGNING LEGEND

- PROPOSED SIGN MOUNTED ON POSTS WOOD 4X6-INCH
- PROPOSED SIGN MOUNTED ON PROPOSED SIGNAL POLE
- PROPOSED SIGN MOUNTED ON PROPOSED LIGHT POLE
- ① DENOTES EXISTING SIGN TO BE REMOVED
- ② DENOTES EXISTING SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POSTS
- EXISTING SIGN MOUNTED ON UTILITY POLE

N

CTH PP / INDIANA AVENUE

MATCHLINE 15+50

MATCHLINE 109+25 TA

MATCHLINE 21+50

MATCHLINE 105+75 TA

SOUTH TAYLOR DRIVE

55'

16+00 17+00 18+00 19+00 20+00 21+00

108+00 109+00 106+00 107+00

BORE BORE

J13-2 48"X45" 3-8

COUNTY PP COUNTY TA

① E3-7

DO NOT ENTER R5-1 30"X30" 3-6

① DO NOT ENTER E3-5

SPEED LIMIT 45 R2-1 24"X30" 3-1 E3-2 ① SPEED LIMIT 45

ONE WAY R6-2-L 24"X30" 3-3

STOP R1-1F 30"X30" 3-9

3-10 R4-7 24"X30"

3-12 Indiana Ave M1-94H 84"X18"

3-4 S Taylor Dr M1-94H 84"X18"

3-38 S Taylor Dr M1-94H 84"X18"

3-35 Indiana Ave M1-94H 84"X18"

3-16 NO MOTOR VEHICLES R5-3 24"X24"

3-15 ONE WAY R6-2-L 24"X30"

E3-17 NO MOTOR VEHICLES ①

3-18 D11-1 24"X18"

3-19 M7-5 12"X9"

E3-20 ①

3-21 DO NOT ENTER R5-1 30"X30"

3-22 COUNTY TA J13-1 24"X45"

E3-11 DO NOT ENTER ①

E3-13 ① COUNTY TA

3-14 STOP R1-1F 30"X30"

UW Sheboygan E3-23 ①

UW Green Bay Sheboygan Campus D1-3-R 96"X36" 3-24

3-25 WRONG WAY R5-1A 36"X24"

3-28 DO NOT ENTER R5-1 30"X30"

E3-26 LEFT TURN LANE ①

COUNTY TA J13-1 24"X45" 3-27

STOP R1-1F 30"X30" 3-29

3-34 NO MOTOR VEHICLES R5-3 24"X24"

3-36 R4-7 24"X30"

3-37 ONE WAY R6-2-L 24"X30"

E3-31 DO NOT ENTER ①

① COUNTY TA E3-30

① ONE WAY E3-32

① NO MOTOR VEHICLES E3-33

3-40 DO NOT ENTER R5-1 30"X30"

3-39 NO MOTOR VEHICLES R5-3 24"X24"

3-49 ONE WAY R6-2-L 24"X30"

3-51 BIKE LANE R3-17 30"X24"

3-52 SPEED LIMIT 35 R2-1 24"X30"

E3-48 ONE WAY ①

E3-50 WAY USE FULL LANE ①

① SPEED LIMIT 35 E3-53

E3-47 DO NOT ENTER ①

① WRONG WAY E3-54

3-45 STOP R1-1F 30"X30"

E3-46 COUNTY PP COUNTY TA ①

E3-42 NO MOTOR VEHICLES ①

3-43 D11-1 24"X18"

3-44 M7-5 12"X9"

3-41 COUNTY PP COUNTY TA J13-2 48"X45"

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 71	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\023201_PS.DWG
LAYOUT NAME - 023203_ps

PLOT DATE : 9/28/2021 7:31 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

4-1 UW Green Bay Sheboygan Campus
D1-3-L
96"X36"

E4-3 UW Sheboygan 1

4-8 STOP
R1-1
30"X30"

1 E4-7 STOP

4-10 DO NOT ENTER
R5-1
30"X30"

4-11 W11-2
30"X30"

4-12 W16-7L
24"X12"

4-13 ONLY | ONLY | ONLY
R3-8-W
54"X30"

4-14 W3-3
36"X36"

1 E4-15

1 E4-2 WRONG WAY

4-4 WRONG WAY
R5-1A
36"X24"

4-5 BIKE LANE R3-17
30"X24"

4-6 ENDS R3-17-B
30"X12"

4-9 BEGIN LEFT TURN LANE
R3-20-L
24"X36"

MATCHLINE 21+50

22+00

23+00

24+00

CTH PP / INDIANA AVENUE

25+00

26+00

27+00

MATCHLINE 27+50

1 E4-16

4-17 ONE WAY
R6-2-L
24"X30"

4-18 W11-2
30"X30"

4-19 W16-7L
24"X12"

4-20 EAST COUNTY PP
J4-1
24"X36"

4-21 R4-7
24"X30"

2 E4-24 Citizens of SHEBOYGAN WELCOME YOU
POPULATION 49,230

1 E4-22 EAST COUNTY PP

E4-23 1

GUY

SIGNING LEGEND

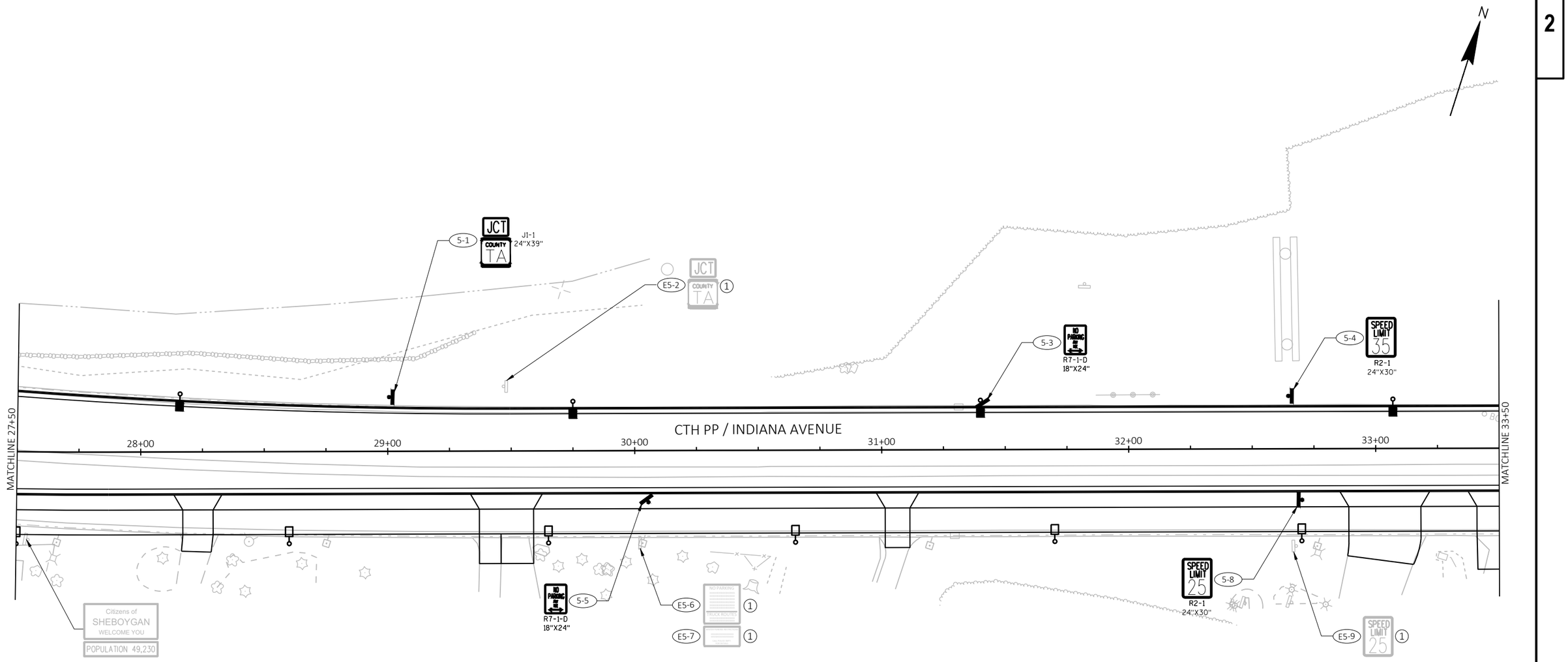
- PROPOSED SIGN MOUNTED ON POSTS WOOD 4X6-INCH
- PROPOSED SIGN MOUNTED ON PROPOSED SIGNAL POLE
- PROPOSED SIGN MOUNTED ON PROPOSED LIGHT POLE
- (1) DENOTES EXISTING SIGN TO BE REMOVED
- (2) DENOTES EXISTING SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POSTS
- EXISTING SIGN MOUNTED ON UTILITY POLE

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 72	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\023201_PS.DWG
LAYOUT NAME - 023204_ps

PLOT DATE : 9/28/2021 7:31 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



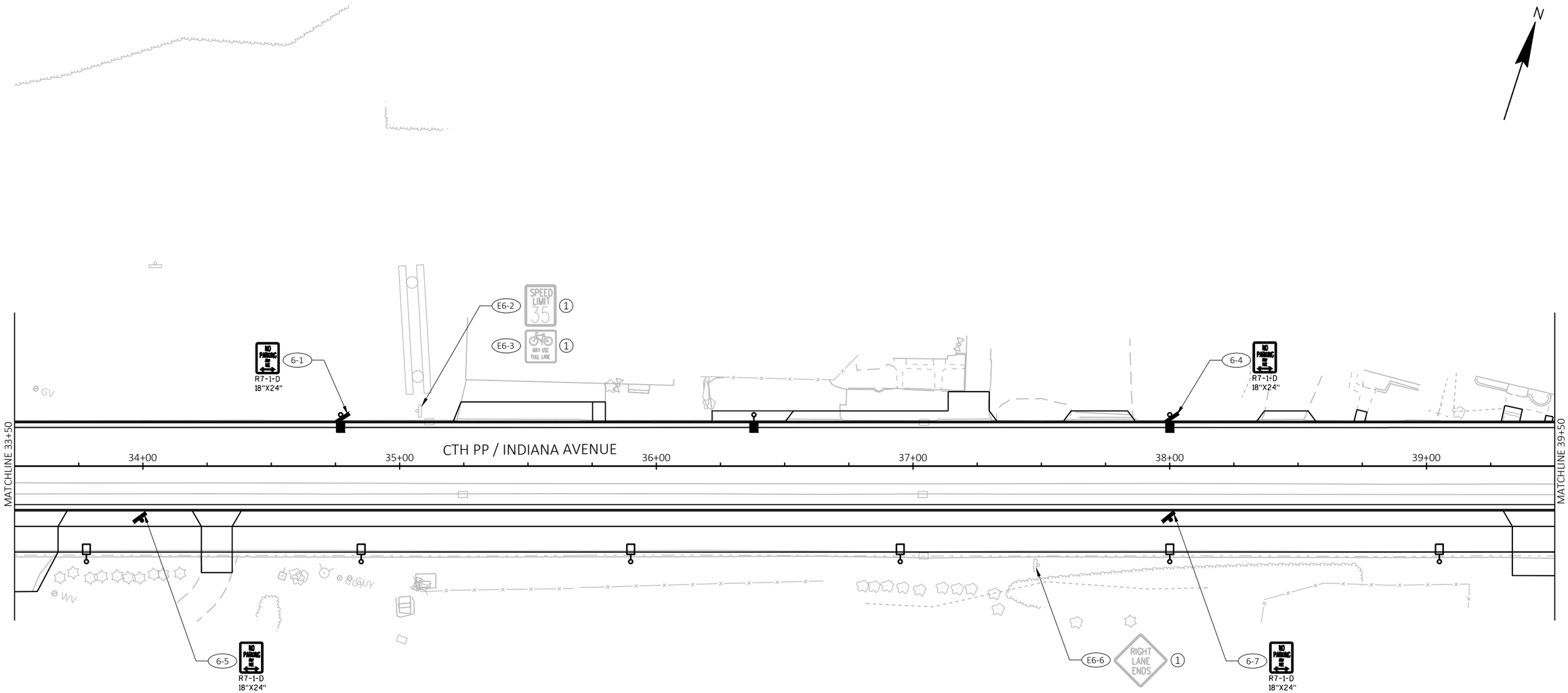
SIGNING LEGEND

- PROPOSED SIGN MOUNTED ON POSTS WOOD 4X6-INCH
- PROPOSED SIGN MOUNTED ON PROPOSED SIGNAL POLE
- PROPOSED SIGN MOUNTED ON PROPOSED LIGHT POLE
- (1) DENOTES EXISTING SIGN TO BE REMOVED
- (2) DENOTES EXISTING SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POSTS
- EXISTING SIGN MOUNTED ON UTILITY POLE

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 73	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\023201_PS.DWG
LAYOUT NAME - 023205_ps
PLOT DATE : 9/28/2021 7:31 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



SIGNING LEGEND

- PROPOSED SIGN MOUNTED ON POSTS WOOD 4X6-INCH
- PROPOSED SIGN MOUNTED ON PROPOSED SIGNAL POLE
- PROPOSED SIGN MOUNTED ON PROPOSED LIGHT POLE
- (1) DENOTES EXISTING SIGN TO BE REMOVED
- (2) DENOTES EXISTING SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POSTS
- EXISTING SIGN MOUNTED ON UTILITY POLE

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 74	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\023201_PS.DWG
LAYOUT NAME - 023206_ps
PLOT DATE : 9/28/2021 7:31 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

MATCHLINE 39+00

CTH PP / INDIANA AVENUE

40+00 41+00 42+00 43+00 44+00 45+00

7-1 R3-17 30"X24" BIKE LANE

7-2 W11-2 30"X30"

7-3 W16-7L 24"X12"

7-4 W11-2 30"X30"

7-5 W16-7L 24"X12"

7-6 R7-1-L 18"X24" NO PARKING

7-7 R3-17 30"X24" BIKE LANE

7-8 R3-17-B 30"X12" ENDS

7-10 R6-1-R 36"X12" ONE WAY

7-11 R6-1-R 36"X12" ONE WAY

7-12 R6-1-L 36"X12" ONE WAY

7-13 R6-1-R 36"X12" ONE WAY

7-14 S 24TH ST 1200 INDIANA AV 2300

7-15 ONE WAY ONE WAY

7-16 R6-1-L 36"X12" ONE WAY

7-18 R9-3A 18"X18"

7-19 R9-3BL 18"X12" USE CROSSWALK

E7-9 INDIANA AVE

E7-17 SPEED LIMIT 25 ROUTE

S 24TH STREET

SIGNING LEGEND

- PROPOSED SIGN MOUNTED ON POSTS WOOD 4X6-INCH
- PROPOSED SIGN MOUNTED ON PROPOSED SIGNAL POLE
- PROPOSED SIGN MOUNTED ON PROPOSED LIGHT POLE
- (1) DENOTES EXISTING SIGN TO BE REMOVED
- (2) DENOTES EXISTING SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POSTS
- EXISTING SIGN MOUNTED ON UTILITY POLE

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 75	E

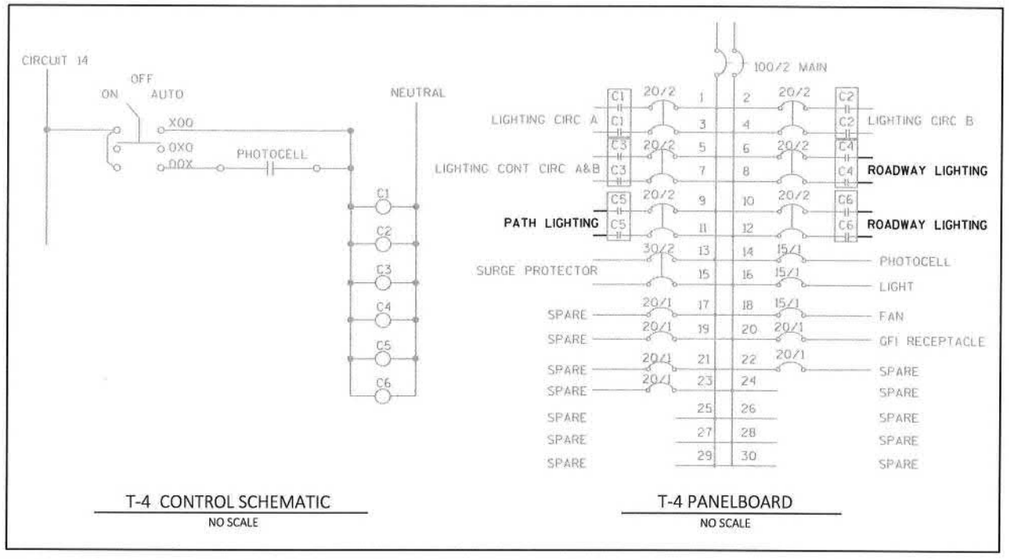
FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\023201_PS.DWG
LAYOUT NAME - 023207_ps

PLOT DATE : 9/28/2021 7:31 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

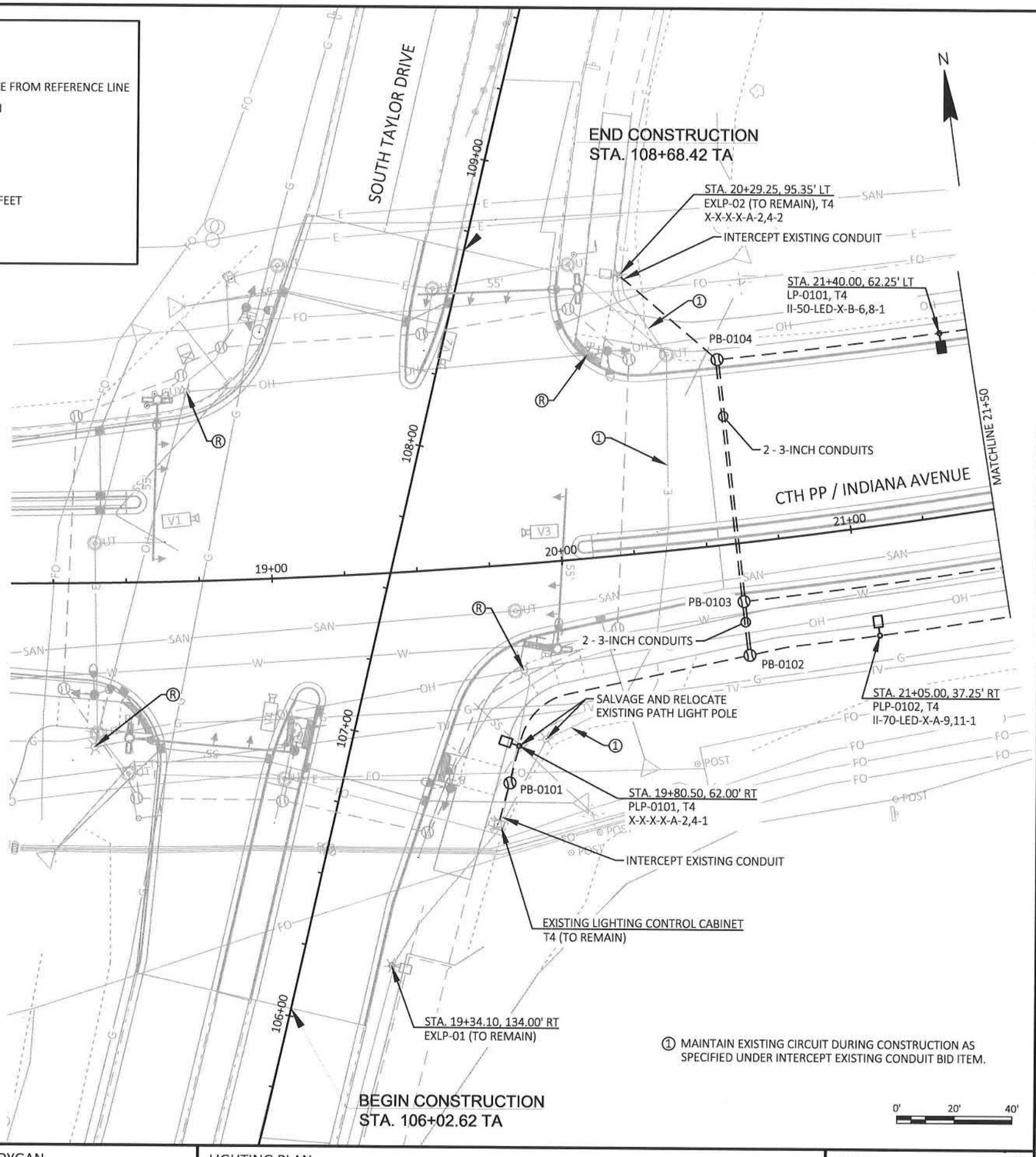
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH, UNLESS OTHERWISE NOTED
- ROAD LIGHTING ASSEMBLY 30-FOOT POLE
- PATH LIGHTING ASSEMBLY 14-FOOT POLE
- PULL BOXES STEEL 24x42-INCH
- EXISTING LIGHT POLE
- Ⓡ REMOVING STREET LIGHT POLES

STA. XX+XX.XX, XX.XX' LT — STATION AND SET BACK DISTANCE FROM REFERENCE LINE
LP-XXXX, T4 — CONTROL CABINET DESIGNATION; LIGHT POLE NUMBER
II-50-LED-X-B-1,3-1 — LIGHT UNIT NUMBER IN CIRCUIT; CIRCUIT NUMBERS; BASE TYPE; MAST ARM BRACKET LENGTH IN FEET; LAMP WATTAGE; DISTRIBUTION TYPE



T-4 CONTROL SCHEMATIC
NO SCALE

T-4 PANELBOARD
NO SCALE



LIGHTING PLANS PREPARED BY:

WISCONSIN
RICHARD G THIMM
E-43668
MILWAUKEE
WI
PROFESSIONAL ENGINEER

7/27/21 (DATE)

(SIGNATURE)

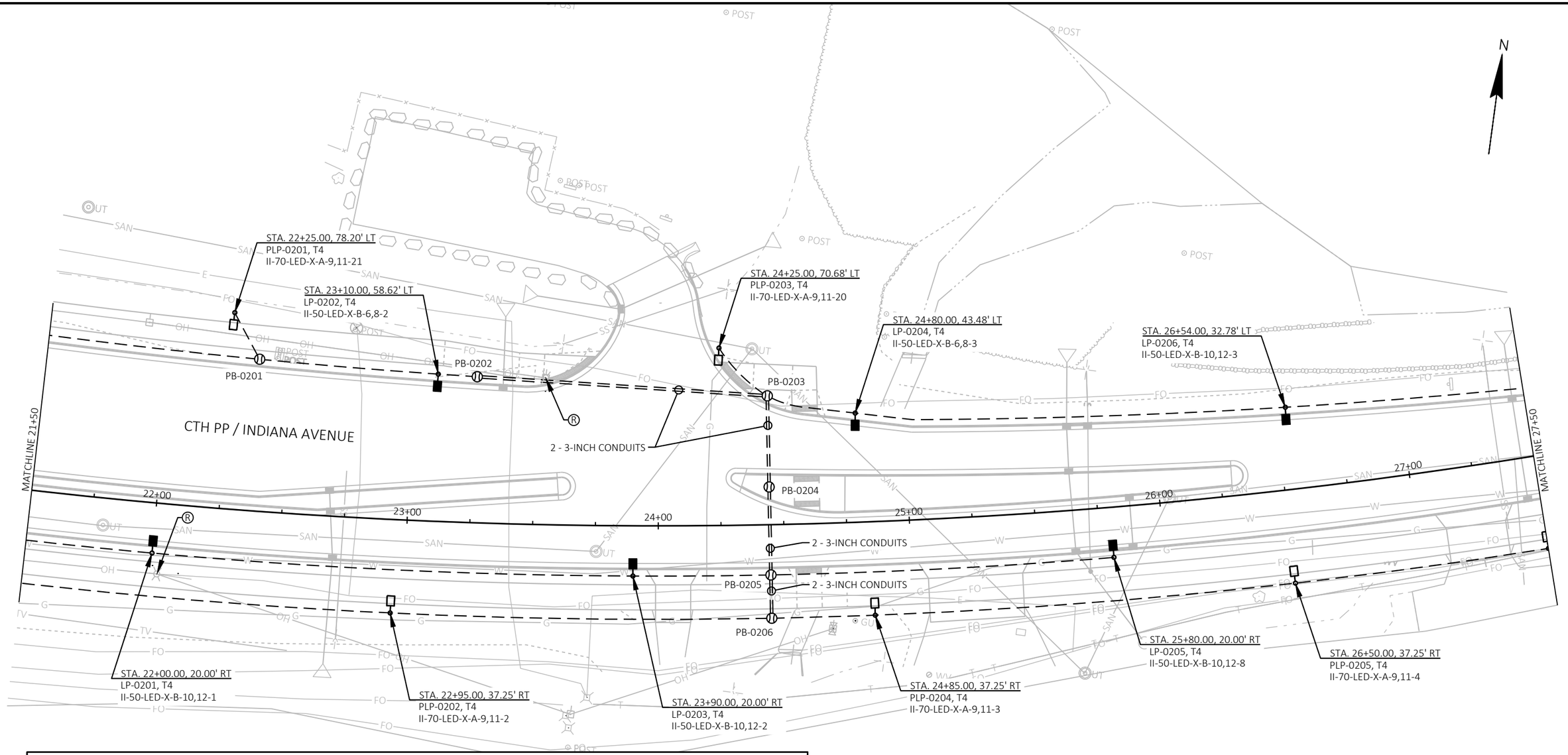
GENERAL NOTES

1. ALL LUMINARIES SHALL BE WIRED AT 240 VOLT AND BE LED.
2. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND LOCATED PARALLEL TO CURB AND/OR ROADWAY WHEN POSSIBLE.
3. ALL LIGHTING ALONG CTH PP/INDIANA AVENUE SHALL HAVE A 2.5-FOOT SETBACK FROM THE FACE OF THE POLE TO THE FACE OF CURB, UNLESS OTHERWISE SHOWN.
4. ALL LIGHTING ALONG THE SHARED-USE PATH SHALL HAVE A 3.5-FOOT SETBACK FROM THE FACE OF THE POLE TO THE EDGE OF THE PATH, UNLESS OTHERWISE SHOWN.

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	LIGHTING PLAN	SHEET 76 E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023601_lp
PLOT DATE : 7/27/2021 8:31 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH, UNLESS OTHERWISE NOTED
- ROAD LIGHTING ASSEMBLY 30-FOOT POLE
- PATH LIGHTING ASSEMBLY 14-FOOT POLE
- PULL BOXES STEEL 24x42-INCH
- EXISTING LIGHT POLE
- REMOVING STREET LIGHT POLES

STA. XX+XX.XX, XX.XX' LT — STATION AND SET BACK DISTANCE FROM REFERENCE LINE

LP-XXXX, T4 — CONTROL CABINET DESIGNATION

LP-XXXX — LIGHT POLE NUMBER

II-50-LED-X-B-1,3,1 — LIGHT UNIT NUMBER IN CIRCUIT

- CIRCUIT NUMBERS
- BASE TYPE
- MAST ARM BRACKET LENGTH IN FEET
- LAMP WATTAGE
- DISTRIBUTION TYPE

GENERAL NOTES

1. ALL LUMINARIES SHALL BE WIRED AT 240 VOLT AND BE LED.
2. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND LOCATED PARALLEL TO CURB AND/OR ROADWAY WHEN POSSIBLE.
3. ALL LIGHTING ALONG CTH PP/INDIANA AVENUE SHALL HAVE A 2.5-FOOT SETBACK FROM THE FACE OF THE POLE TO THE FACE OF CURB, UNLESS OTHERWISE SHOWN.
4. ALL LIGHTING ALONG THE SHARED-USE PATH SHALL HAVE A 3.5-FOOT SETBACK FROM THE FACE OF THE POLE TO THE EDGE OF THE PATH, UNLESS OTHERWISE SHOWN.

0' 20' 40'

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	LIGHTING PLAN	SHEET 77	E

LEGEND

- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH, UNLESS OTHERWISE NOTED
- ROAD LIGHTING ASSEMBLY 30-FOOT POLE
- PATH LIGHTING ASSEMBLY 14-FOOT POLE
- PULL BOXES STEEL 24x42-INCH
- EXISTING LIGHT POLE
- REMOVING STREET LIGHT POLES

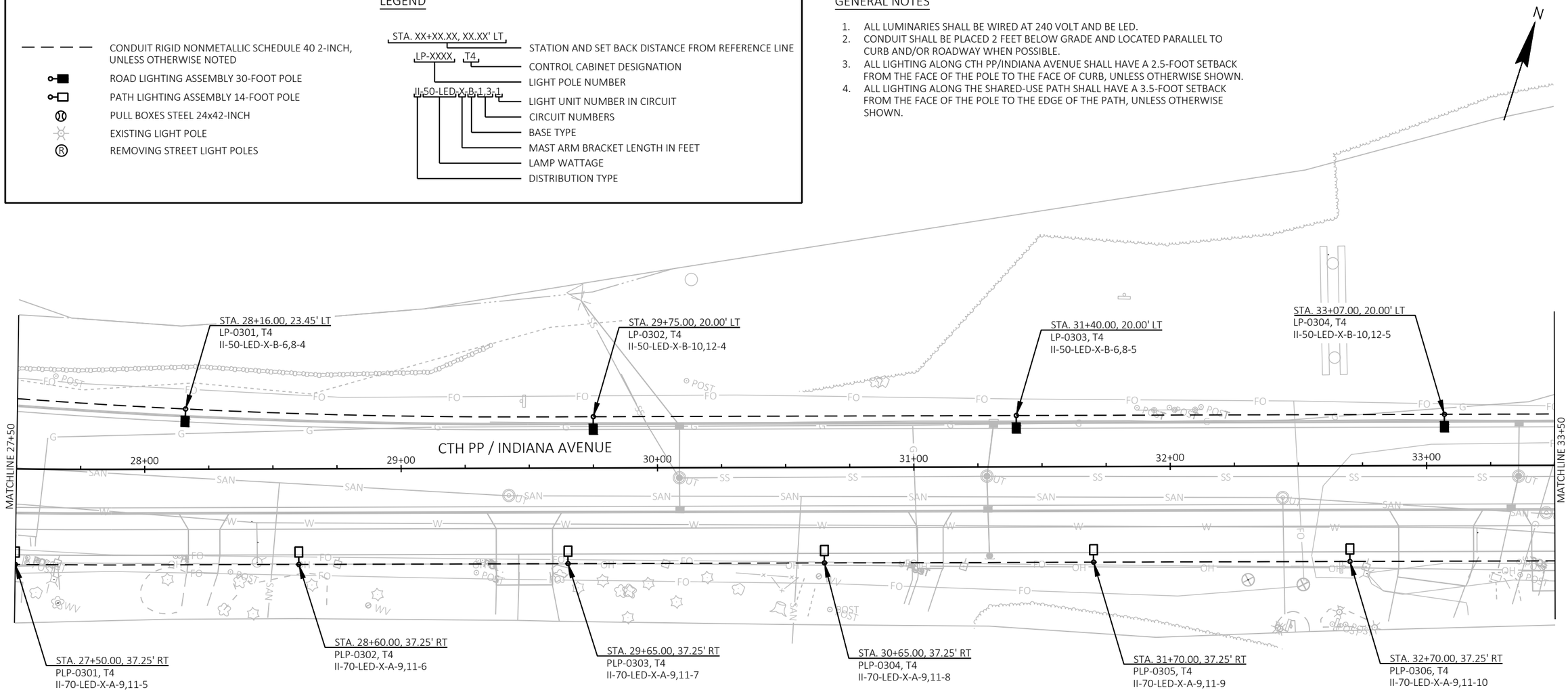
STA. XX+XX.XX, XX.XX' LT
- STATION AND SET BACK DISTANCE FROM REFERENCE LINE

LP-XXXX, T4
- CONTROL CABINET DESIGNATION
- LIGHT POLE NUMBER

II-50-LED-X-B-1,3-1
- LIGHT UNIT NUMBER IN CIRCUIT
- CIRCUIT NUMBERS
- BASE TYPE
- MAST ARM BRACKET LENGTH IN FEET
- LAMP WATTAGE
- DISTRIBUTION TYPE

GENERAL NOTES

1. ALL LUMINARIES SHALL BE WIRED AT 240 VOLT AND BE LED.
2. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND LOCATED PARALLEL TO CURB AND/OR ROADWAY WHEN POSSIBLE.
3. ALL LIGHTING ALONG CTH PP/INDIANA AVENUE SHALL HAVE A 2.5-FOOT SETBACK FROM THE FACE OF THE POLE TO THE FACE OF CURB, UNLESS OTHERWISE SHOWN.
4. ALL LIGHTING ALONG THE SHARED-USE PATH SHALL HAVE A 3.5-FOOT SETBACK FROM THE FACE OF THE POLE TO THE EDGE OF THE PATH, UNLESS OTHERWISE SHOWN.



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	LIGHTING PLAN	SHEET 78	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023603_lp
PLOT DATE : 9/28/2021 7:33 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

LEGEND

- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH, UNLESS OTHERWISE NOTED
- ROAD LIGHTING ASSEMBLY 30-FOOT POLE
- PATH LIGHTING ASSEMBLY 14-FOOT POLE
- PULL BOXES STEEL 24x42-INCH
- EXISTING LIGHT POLE
- REMOVING STREET LIGHT POLES

STA. XX+XX.XX, XX.XX' LT
- STATION AND SET BACK DISTANCE FROM REFERENCE LINE

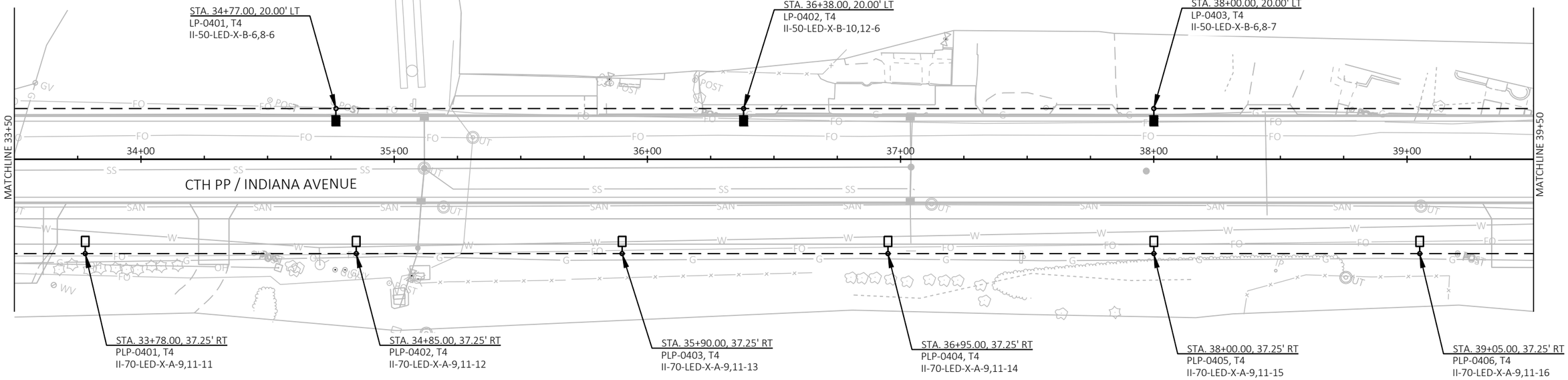
LP-XXXX, T4
- CONTROL CABINET DESIGNATION
- LIGHT POLE NUMBER

II-50-LED-X-B-1,3-1
- LIGHT UNIT NUMBER IN CIRCUIT
- CIRCUIT NUMBERS
- BASE TYPE
- MAST ARM BRACKET LENGTH IN FEET
- LAMP WATTAGE
- DISTRIBUTION TYPE

GENERAL NOTES

1. ALL LUMINARIES SHALL BE WIRED AT 240 VOLT AND BE LED.
2. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND LOCATED PARALLEL TO CURB AND/OR ROADWAY WHEN POSSIBLE.
3. ALL LIGHTING ALONG CTH PP/INDIANA AVENUE SHALL HAVE A 2.5-FOOT SETBACK FROM THE FACE OF THE POLE TO THE FACE OF CURB, UNLESS OTHERWISE SHOWN.
4. ALL LIGHTING ALONG THE SHARED-USE PATH SHALL HAVE A 3.5-FOOT SETBACK FROM THE FACE OF THE POLE TO THE EDGE OF THE PATH, UNLESS OTHERWISE SHOWN.

N



0' 20' 40'

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	LIGHTING PLAN	SHEET 79	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023604_lp
PLOT DATE : 9/28/2021 7:33 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

LEGEND

- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH, UNLESS OTHERWISE NOTED
- ROAD LIGHTING ASSEMBLY 30-FOOT POLE
- PATH LIGHTING ASSEMBLY 14-FOOT POLE
- PULL BOXES STEEL 24x42-INCH
- EXISTING LIGHT POLE
- REMOVING STREET LIGHT POLES

STA. XX+XX.XX, XX.XX' LT
- STATION AND SET BACK DISTANCE FROM REFERENCE LINE

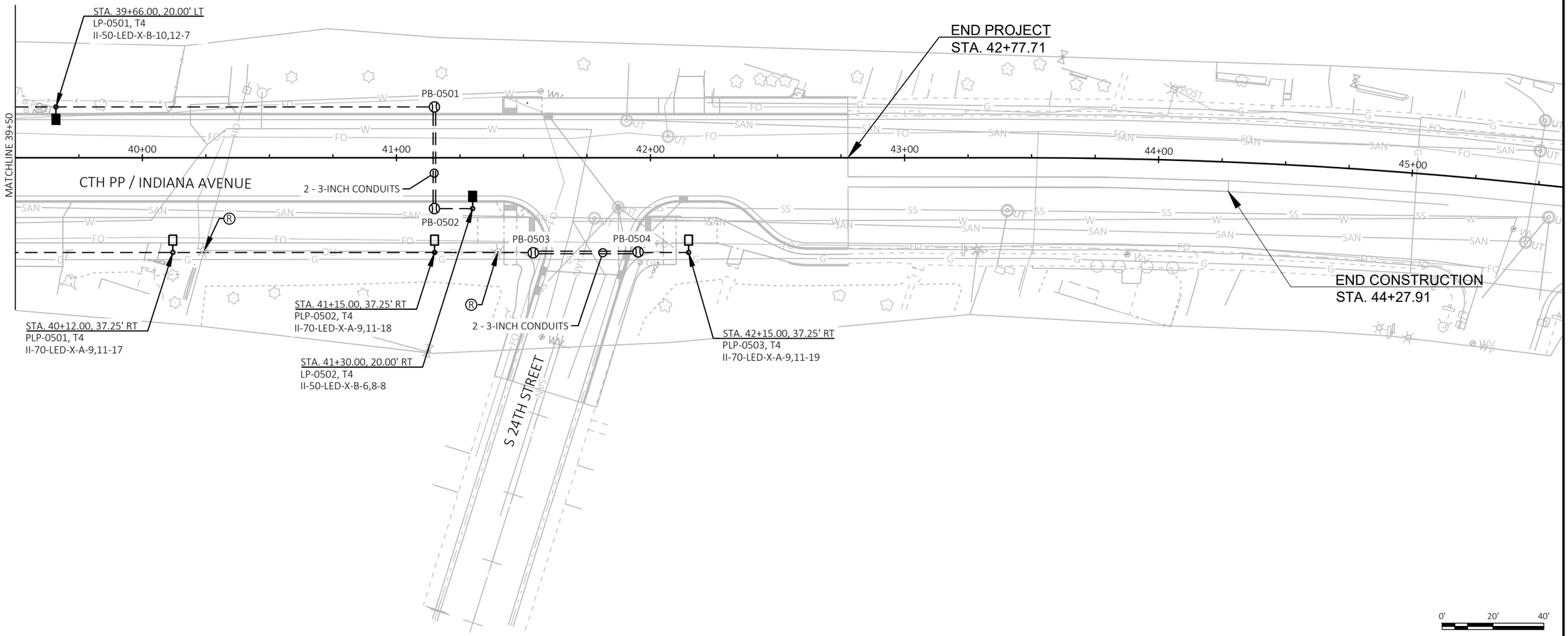
LP-XXXX, T4
- CONTROL CABINET DESIGNATION
- LIGHT POLE NUMBER

II-50-LED-X-B-1,3-1
- LIGHT UNIT NUMBER IN CIRCUIT
- CIRCUIT NUMBERS
- BASE TYPE
- MAST ARM BRACKET LENGTH IN FEET
- LAMP WATTAGE
- DISTRIBUTION TYPE

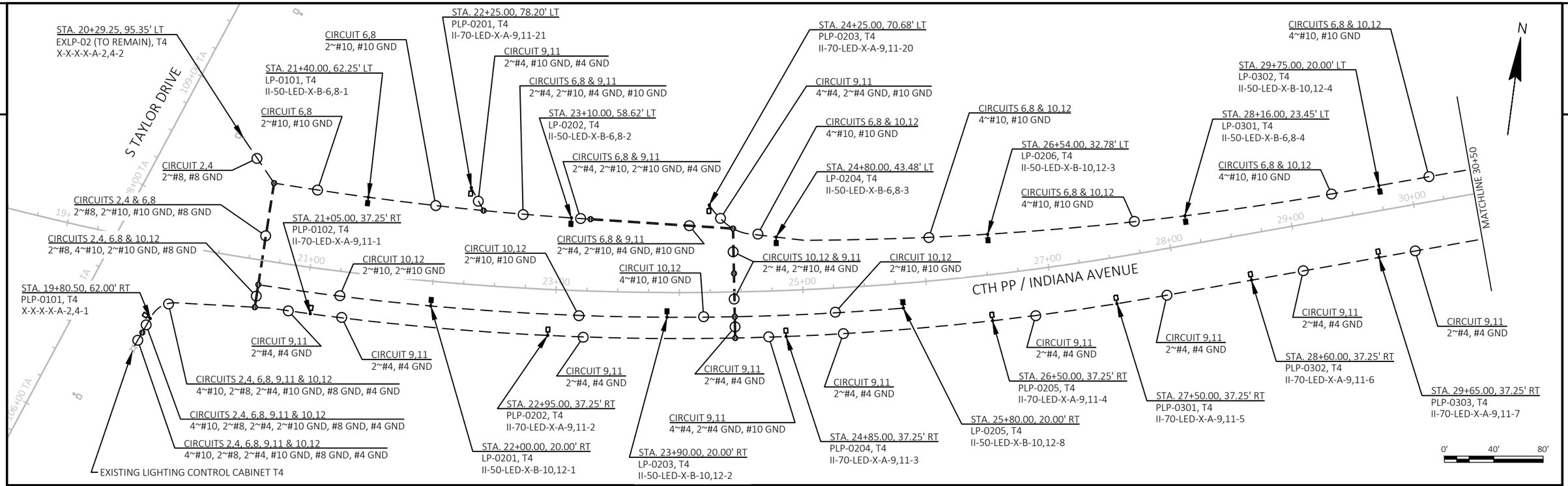
GENERAL NOTES

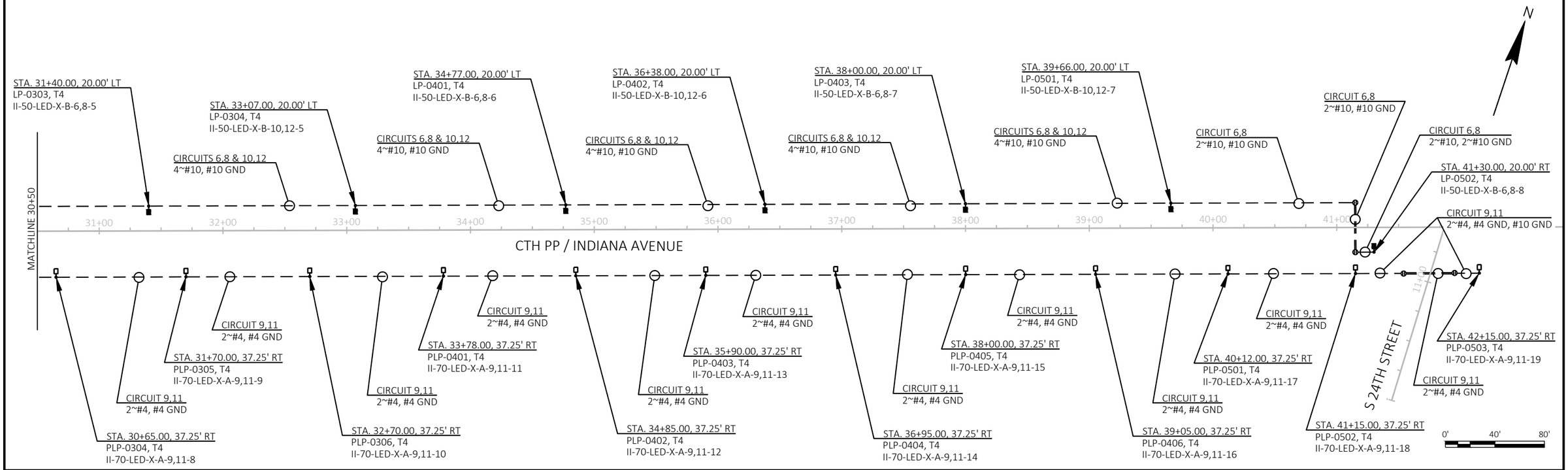
1. ALL LUMINARIES SHALL BE WIRED AT 240 VOLT AND BE LED.
2. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND LOCATED PARALLEL TO CURB AND/OR ROADWAY WHEN POSSIBLE.
3. ALL LIGHTING ALONG CTH PP/INDIANA AVENUE SHALL HAVE A 2.5-FOOT SETBACK FROM THE FACE OF THE POLE TO THE FACE OF CURB, UNLESS OTHERWISE SHOWN.
4. ALL LIGHTING ALONG THE SHARED-USE PATH SHALL HAVE A 3.5-FOOT SETBACK FROM THE FACE OF THE POLE TO THE EDGE OF THE PATH, UNLESS OTHERWISE SHOWN.

N



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	LIGHTING PLAN	SHEET 80	E





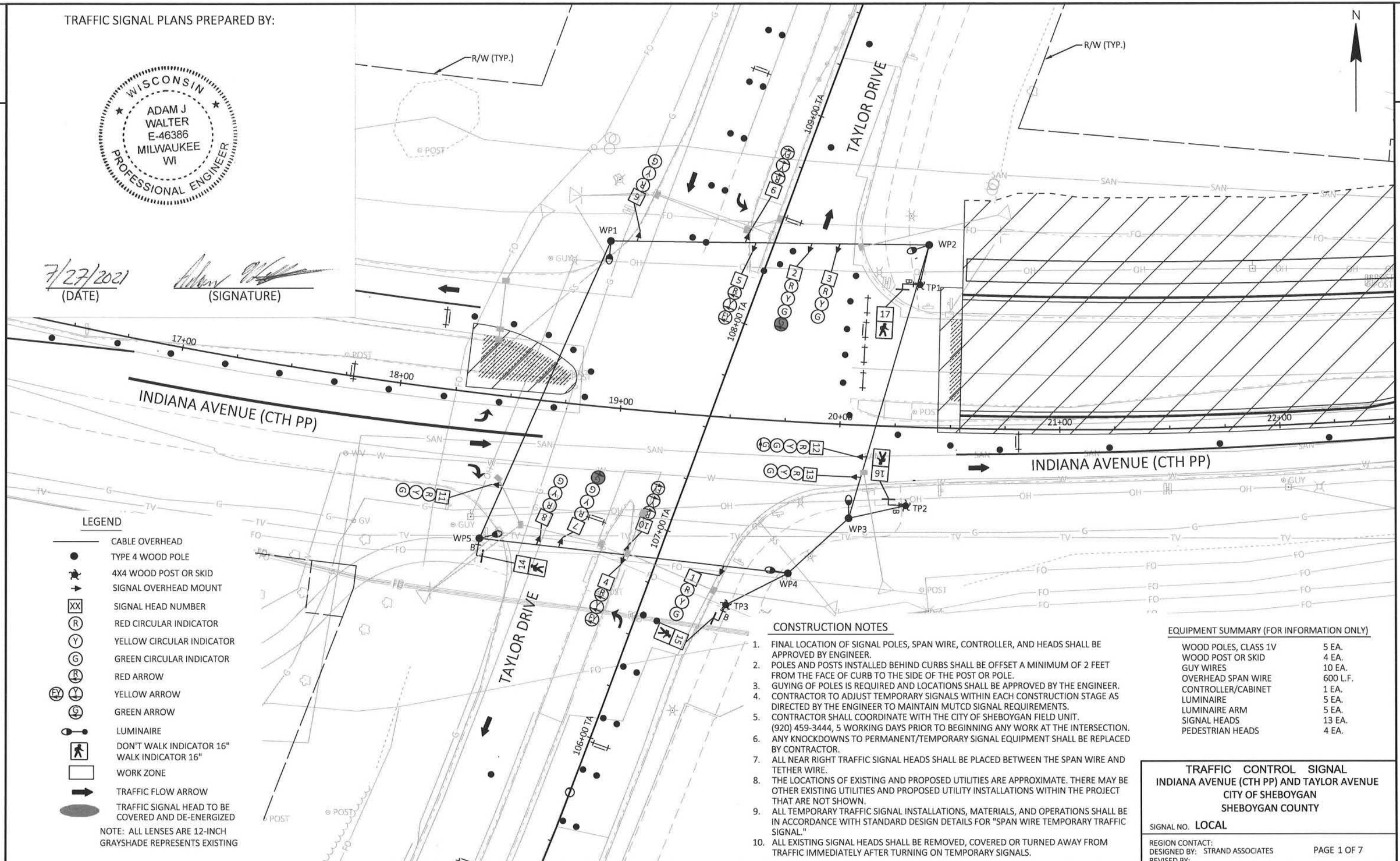
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	LIGHTING PLAN - WIRING DIAGRAM	SHEET 81	E

TRAFFIC SIGNAL PLANS PREPARED BY:

WISCONSIN
ADAM J
WALTER
E-46386
MILWAUKEE
WI
PROFESSIONAL ENGINEER

7/27/2021
(DATE)

(SIGNATURE)



LEGEND

- CABLE OVERHEAD
- TYPE 4 WOOD POLE
- 4X4 WOOD POST OR SKID
- SIGNAL OVERHEAD MOUNT
- XX — SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- R — RED ARROW
- EY Y — YELLOW ARROW
- G — GREEN ARROW
- LUMINAIRE
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- WORK ZONE
- TRAFFIC FLOW ARROW
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES

1. FINAL LOCATION OF SIGNAL POLES, SPAN WIRE, CONTROLLER, AND HEADS SHALL BE APPROVED BY ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
5. CONTRACTOR SHALL COORDINATE WITH THE CITY OF SHEBOYGAN FIELD UNIT. (920) 459-3444, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY CONTRACTOR.
7. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
8. THE LOCATIONS OF EXISTING AND PROPOSED UTILITIES ARE APPROXIMATE. THERE MAY BE OTHER EXISTING UTILITIES AND PROPOSED UTILITY INSTALLATIONS WITHIN THE PROJECT THAT ARE NOT SHOWN.
9. ALL TEMPORARY TRAFFIC SIGNAL INSTALLATIONS, MATERIALS, AND OPERATIONS SHALL BE IN ACCORDANCE WITH STANDARD DESIGN DETAILS FOR "SPAN WIRE TEMPORARY TRAFFIC SIGNAL."
10. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.

EQUIPMENT SUMMARY (FOR INFORMATION ONLY)

WOOD POLES, CLASS 1V	5 EA.
WOOD POST OR SKID	4 EA.
GUY WIRES	10 EA.
OVERHEAD SPAN WIRE	600 L.F.
CONTROLLER/CABINET	1 EA.
LUMINAIRE	5 EA.
LUMINAIRE ARM	5 EA.
SIGNAL HEADS	13 EA.
PEDESTRIAN HEADS	4 EA.

TRAFFIC CONTROL SIGNAL
INDIANA AVENUE (CTH PP) AND TAYLOR AVENUE
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. LOCAL

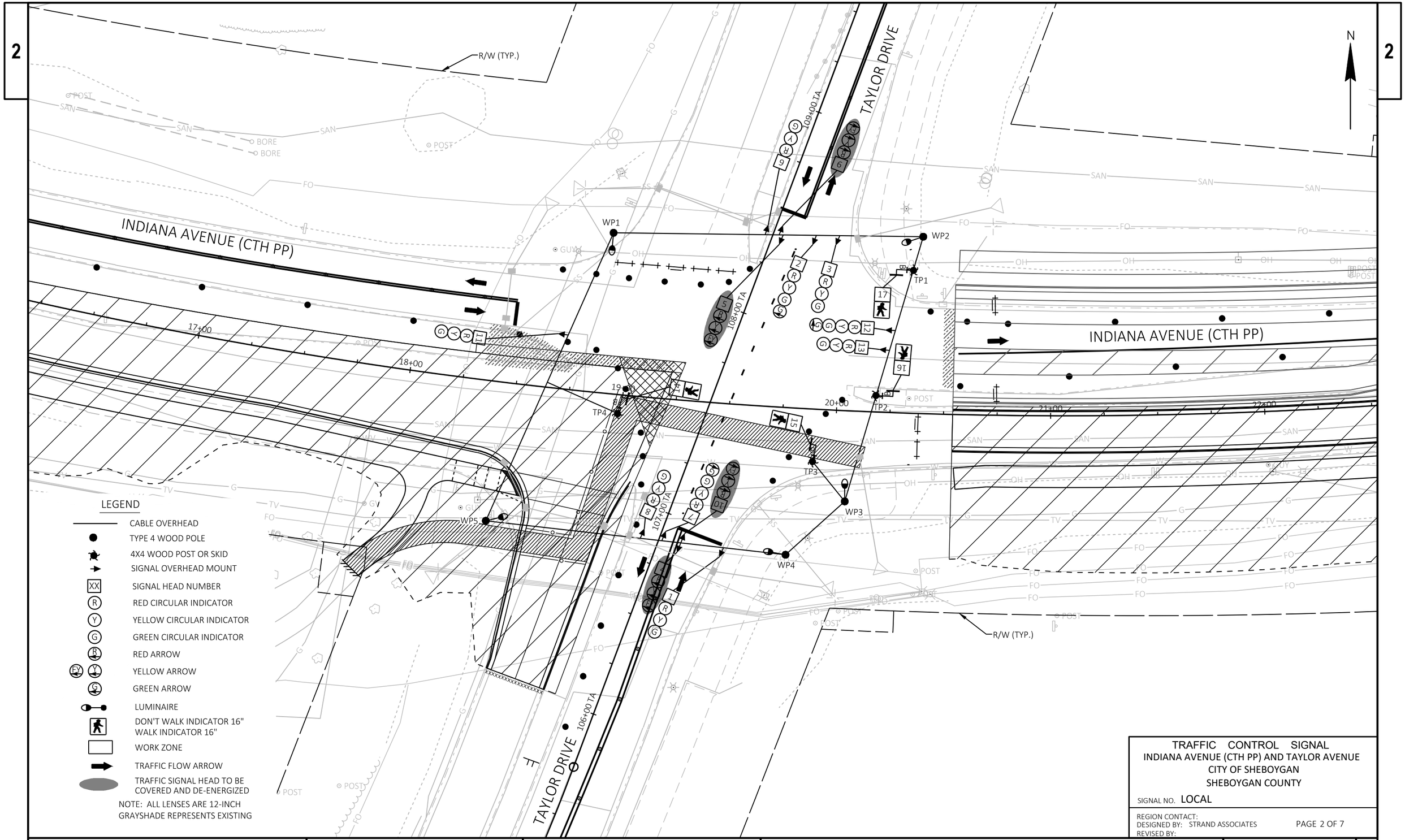
REGION CONTACT:
DESIGNED BY: STRAND ASSOCIATES
REVISED BY:

PAGE 1 OF 7

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1	SHEET 82	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024101_ST.DWG
LAYOUT NAME - 024100_sp
PLOT DATE : 7/27/2021 9:04 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
INDIANA AVENUE (CTH PP) AND TAYLOR AVENUE
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. LOCAL

REGION CONTACT:
DESIGNED BY: STRAND ASSOCIATES
REVISED BY:

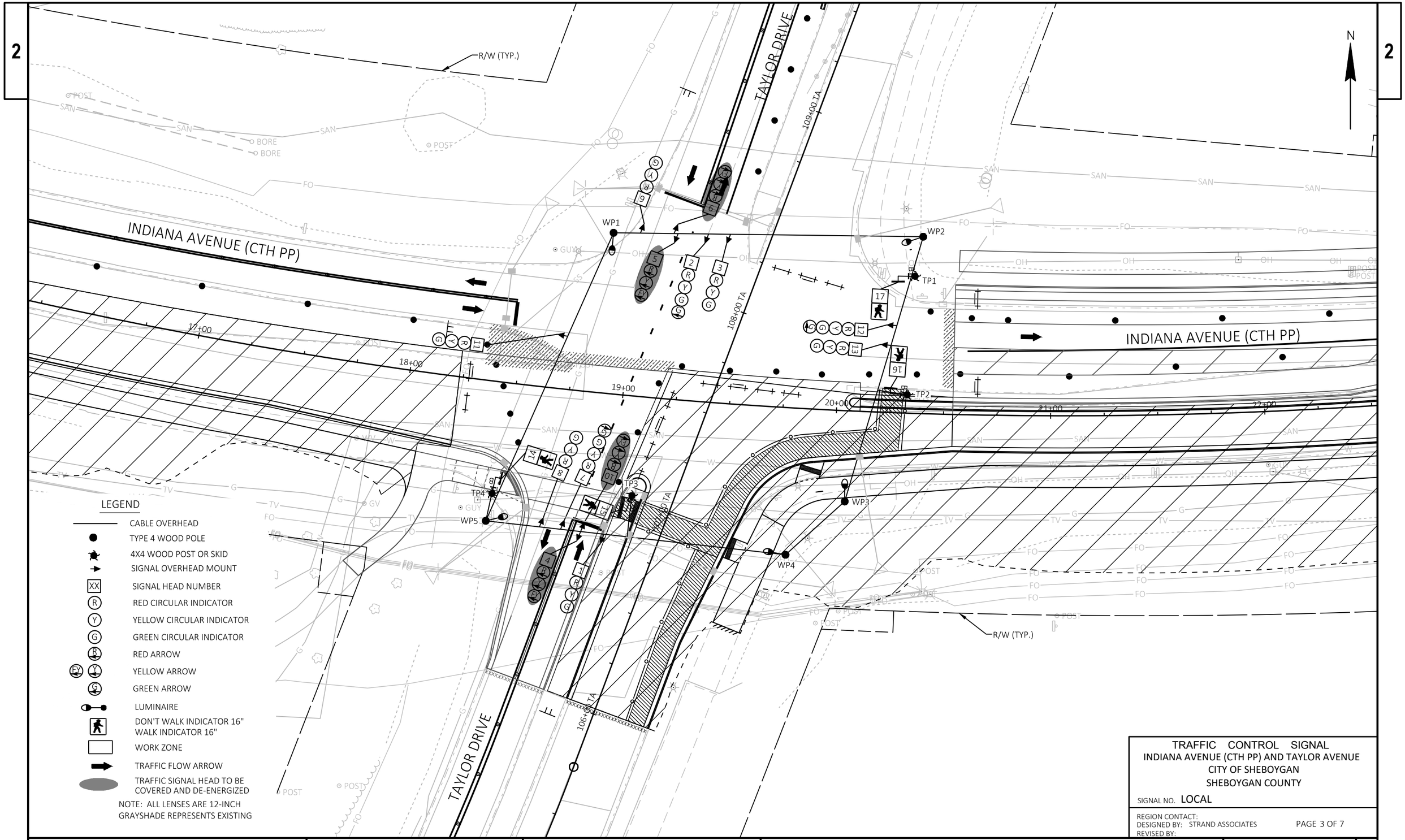
PAGE 2 OF 7

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 83	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024102_ST.DWG
LAYOUT NAME - 024100_sp

PLOT DATE : 7/27/2021 9:04 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A	SHEET 84	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024102A_ST.DWG
LAYOUT NAME - 024100_sp
PLOT DATE : 7/27/2021 9:05 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

R/W (TYP.)

TAYLOR DRIVE

INDIANA AVENUE (CTH PP)

INDIANA AVENUE (CTH PP)

WP1

WP2

WP3

WP4

WP5

TP1

TP2

TP3

TP4

108+00 TA

109+00 TA

107+00 TA

106+00 TA

17+00

18+00

19+00

21+00

22+00

R/W (TYP.)

LEGEND

- CABLE OVERHEAD
- TYPE 4 WOOD POLE
- 4X4 WOOD POST OR SKID
- SIGNAL OVERHEAD MOUNT
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- EY Y YELLOW ARROW
- G GREEN ARROW
- LUMINAIRE
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- WORK ZONE
- TRAFFIC FLOW ARROW
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
INDIANA AVENUE (CTH PP) AND TAYLOR AVENUE
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. LOCAL

REGION CONTACT:
DESIGNED BY: STRAND ASSOCIATES
REVISED BY:

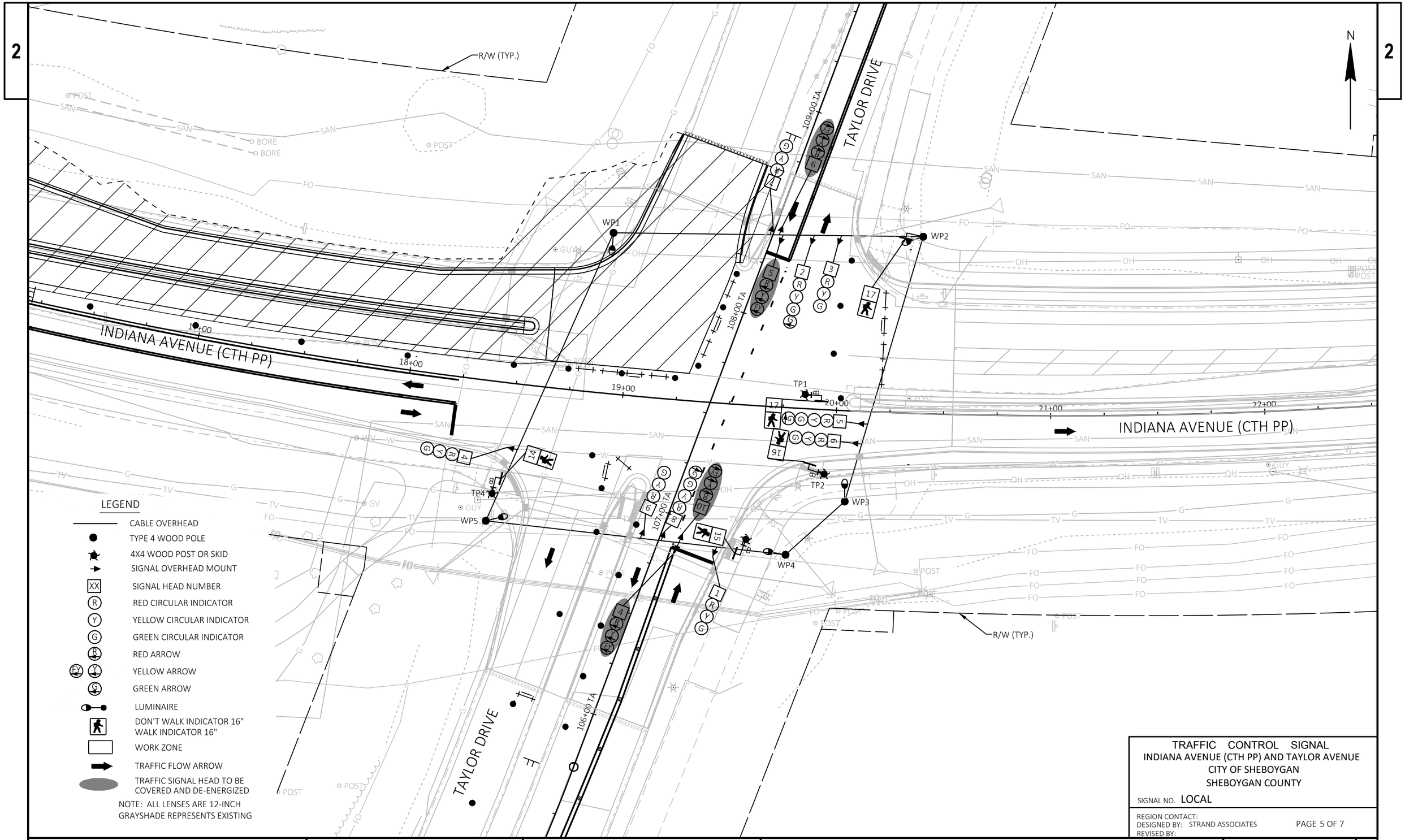
PAGE 4 OF 7

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET 85	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024103_ST.DWG
LAYOUT NAME - 024100_sp

PLOT DATE : 7/27/2021 9:06 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
INDIANA AVENUE (CTH PP) AND TAYLOR AVENUE
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. LOCAL

REGION CONTACT:
DESIGNED BY: STRAND ASSOCIATES
REVISED BY:

PAGE 5 OF 7

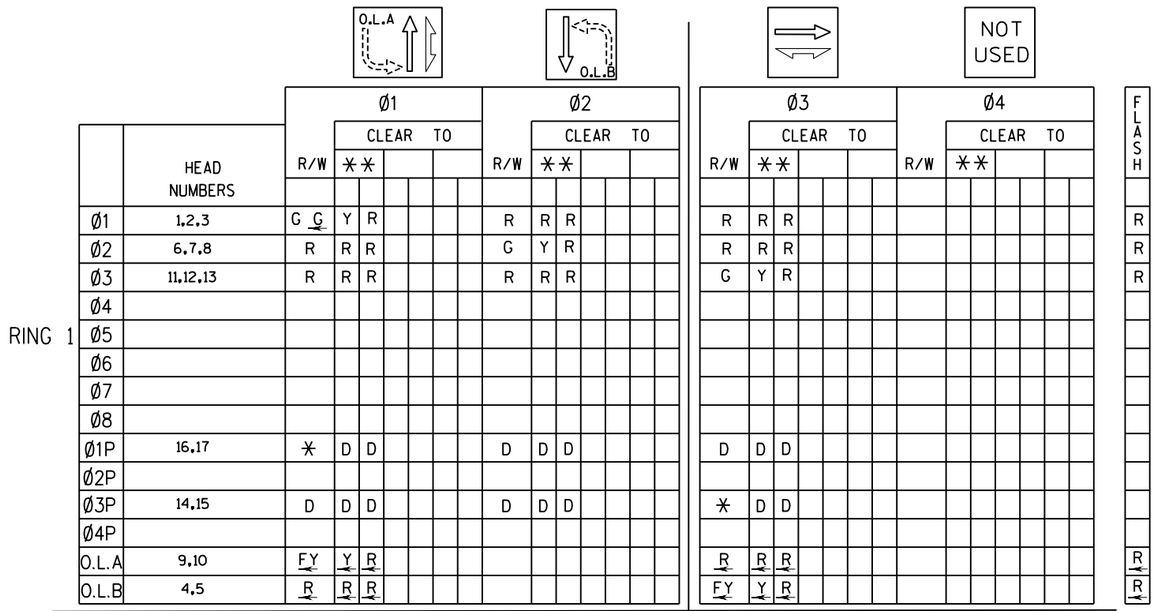
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3A	SHEET 86	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024103A_ST.DWG
LAYOUT NAME - 024100_sp

PLOT DATE : 7/27/2021 9:07 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION



** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 AND CHART 2)

* WHEN CALLED, TIMED STEADY WALK,THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CONTROLLER LOGIC

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

OVERLAPS

O.L. "A" = PHASE 1 PERMITTED
O.L. "B" = PHASE 2 PERMITTED
O.L. "C" =
O.L. "D" =

TYPE OF INTERCONNECT COMMUNICATION	
NONE	x
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM *:	SS- -

TYPE OF PRE-EMPT	
NONE	x
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

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

N

GENERAL NOTES:

1. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AND 2).
2. NORTHBOUND AND SOUTHBOUND MOVEMENTS CAN TIME CONCURRENTLY. THE CONTRACTOR SHALL COVER GREEN LEFT-TURN ARROW HEADS FOR NORTHBOUND AND SOUTHBOUND MOVEMENTS DURING THIS STAGE. NORTHBOUND AND SOUTHBOUND LEFT-TURN OVERLAPS ARE ACTIVE IN THIS STAGE.
3. WESTBOUND MOVEMENTS ARE RESTRICTED FOR ALL STAGES.
4. THE NORTH-SOUTH AND EAST-WEST PEDESTRIAN CROSSING MUST BE MAINTAINED DURING EACH CONSTRUCTION STAGE.

CHART 1 - STAGE 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	NONE	3
2	NONE	3
3	NONE	1,2
4		
5		
6		
7		
8		

TRAFFIC CONTROL SIGNAL
INDIANA AVENUE (CTH PP) AND TAYLOR AVENUE
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. LOCAL

REGION CONTACT:
DESIGNED BY: STRAND ASSOCIATES
REVISED BY:

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1 SEQUENCE OF OPERATIONS	SHEET 87	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024103A_ST.DWG
LAYOUT NAME - 024100_seq
PLOT DATE : 7/27/2021 9:07 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **				Ø2 R/W	Ø2 CLEAR TO **				Ø3 R/W	Ø3 CLEAR TO **				Ø4 R/W	Ø4 CLEAR TO **				FLASH
Ø1	1,2,3	G G	Y	R			R	R	R			R	R	R								R
Ø2	6,7,8	R	R	R			G G	Y	R			R	R	R								R
Ø3	11,12,13	R	R	R			R	R	R			G G	Y	R								R
Ø4																						
Ø5																						
Ø6																						
Ø7																						
Ø8																						
Ø1P	16,17	*	D	D			D	D	D			D	D	D								
Ø2P																						
Ø3P	14,15	D	D	D			D	D	D			*	D	D								
Ø4P																						

NOT USED | NOT USED | NOT USED | NOT USED

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **				Ø6 R/W	Ø6 CLEAR TO **				Ø7 R/W	Ø7 CLEAR TO **				Ø8 R/W	Ø8 CLEAR TO **			
Ø1	1,2,3																				
Ø2	7,8,9																				
Ø3	4,5,6																				
Ø4																					
Ø5																					
Ø6																					
Ø7																					
Ø8																					
Ø1P	19,20																				
Ø2P	17,18																				
Ø3P	15,16																				
Ø4P	13,14																				

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 AND CHART 2)

* WHEN CALLED, TIMED STEADY WALK,THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CONTROLLER LOGIC

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

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

TYPE OF INTERCONNECT COMMUNICATION	
NONE	x
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
RADIO	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM #: SS- -	

TYPE OF PRE-EMPT	
NONE	x
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

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

N

GENERAL NOTES:

1. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AND 2).
2. NORTHBOUND AND SOUTHBOUND MOVEMENTS SHALL HAVE SPLIT PHASING.
3. WESTBOUND MOVEMENTS ARE RESTRICTED FOR ALL STAGES.
4. THE NORTH-SOUTH AND EAST-WEST PEDESTRIAN CROSSING MUST BE MAINTAINED DURING EACH CONSTRUCTION STAGE.

CHART 2 - STAGE 2, 2A, 3, 3A

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	NONE	2,3
2	NONE	1,3
3	NONE	1,2
4		
5		
6		
7		
8		

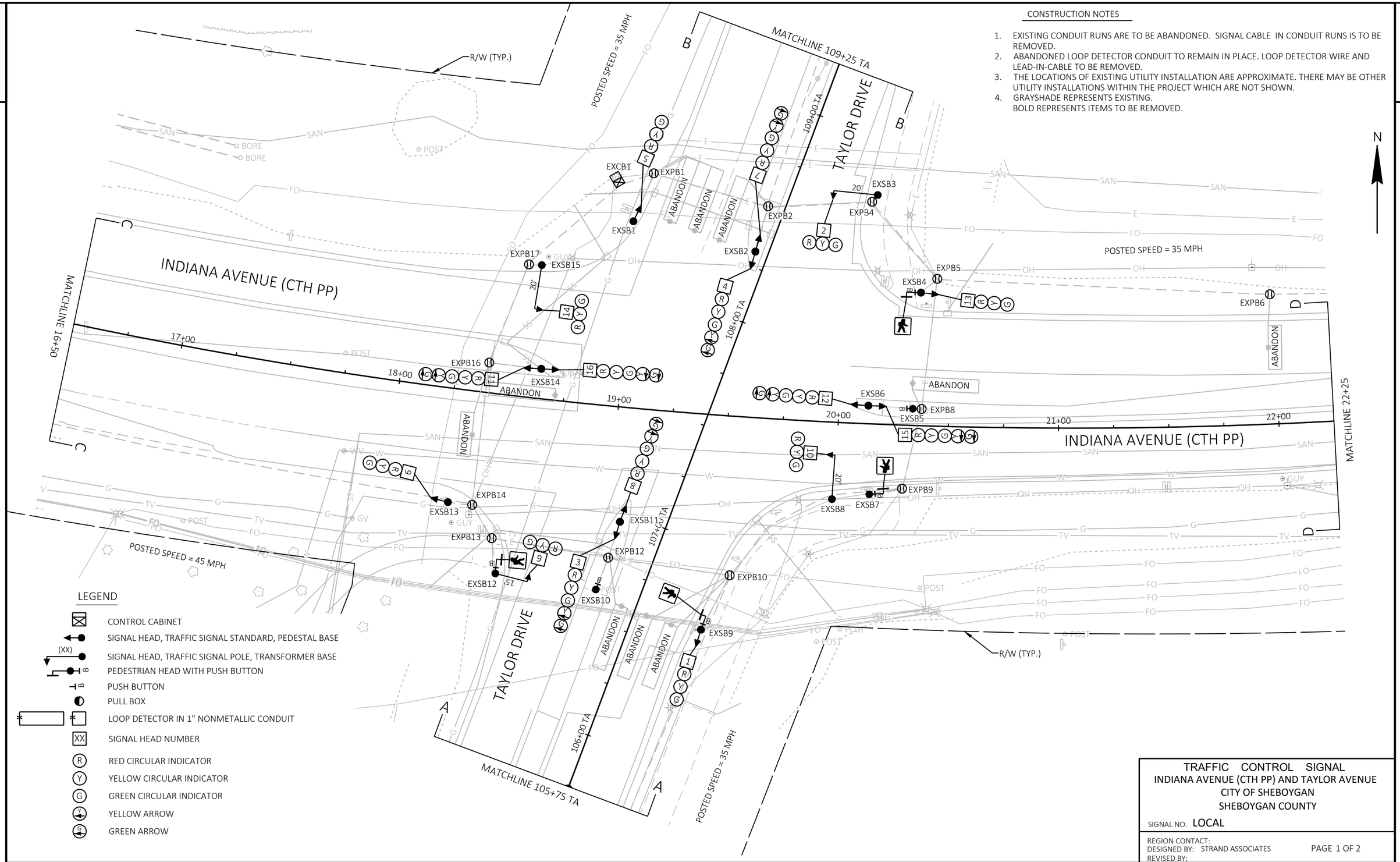
TRAFFIC CONTROL SIGNAL
INDIANA AVENUE (CTH PP) AND TAYLOR AVENUE
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. LOCAL

REGION CONTACT:
DESIGNED BY: STRAND ASSOCIATES
REVISED BY:

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2, 2A, 3, & 3A SEQUENCE OF OPERATIONS	SHEET 88	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024103A_ST.DWG
LAYOUT NAME - 024101_seq
PLOT DATE : 7/27/2021 9:07 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
INDIANA AVENUE (CTH PP) AND TAYLOR AVENUE
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

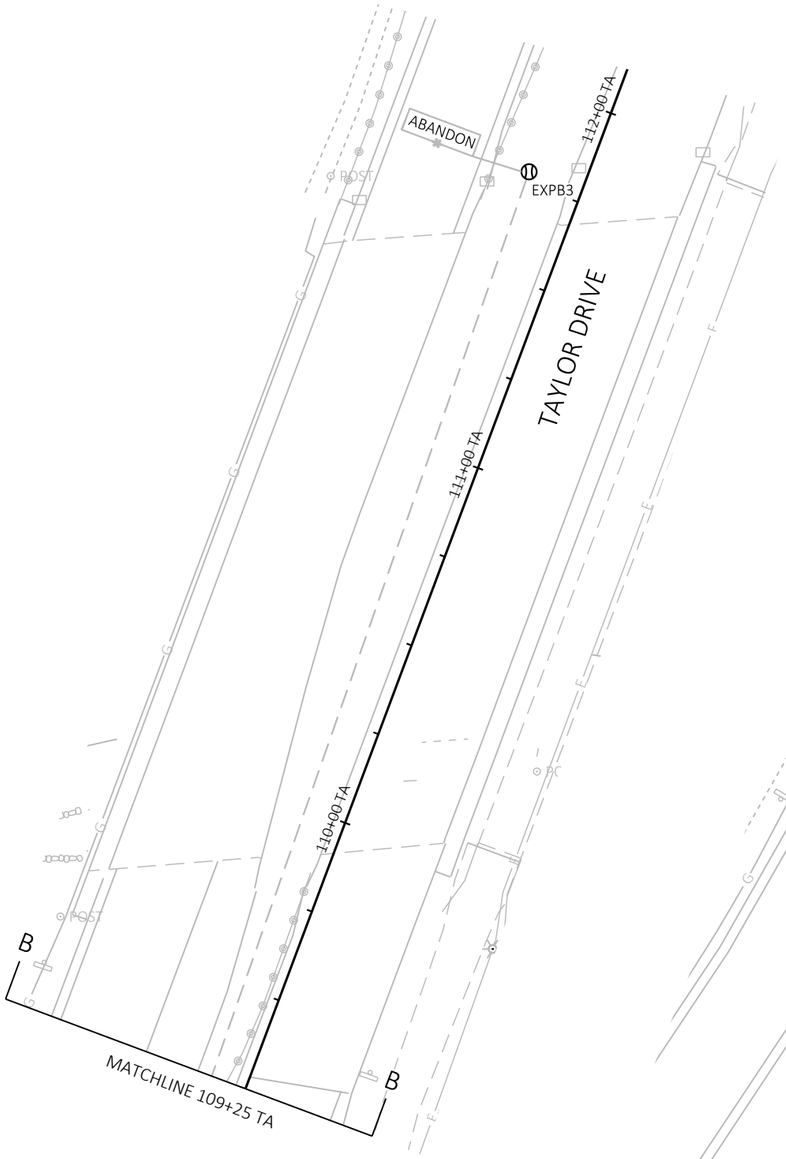
SIGNAL NO. LOCAL

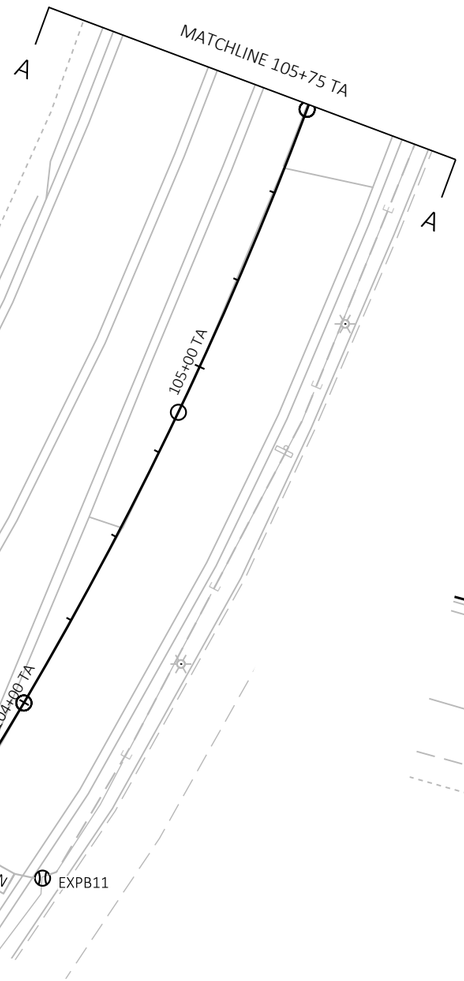
REGION CONTACT:
DESIGNED BY: STRAND ASSOCIATES
REVISED BY:

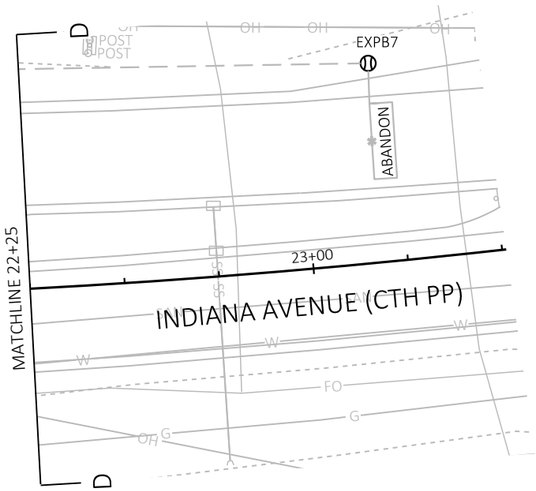
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 89	E

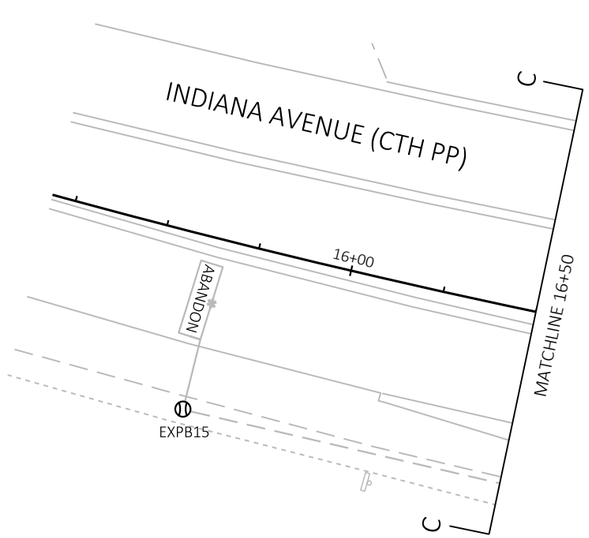
FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024001_SR.DWG
LAYOUT NAME - 024001_sr
PLOT DATE : 7/27/2021 9:08 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2









N

TRAFFIC CONTROL SIGNAL
INDIANA AVENUE (CTH PP) AND TAYLOR AVENUE
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. LOCAL

REGION CONTACT:
DESIGNED BY: STRAND ASSOCIATES
REVISED BY:

PAGE 2 OF 2

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 90	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024001_SR.DWG
LAYOUT NAME - 024002_sr

PLOT DATE : 7/27/2021 9:08 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

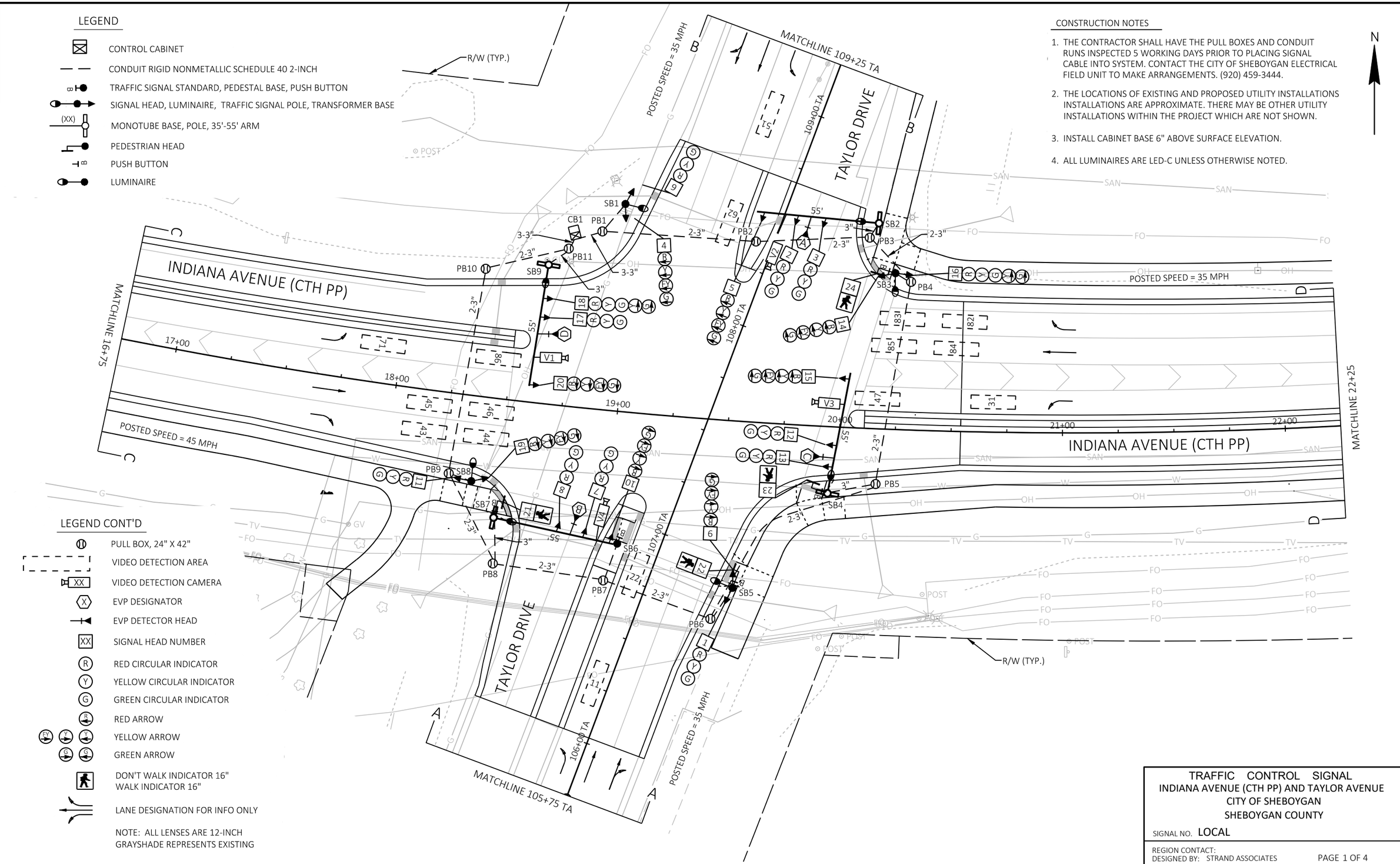
LEGEND

- CONTROL CABINET
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
- TRAFFIC SIGNAL STANDARD, PEDESTAL BASE, PUSH BUTTON
- SIGNAL HEAD, LUMINAIRE, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PEDESTRIAN HEAD
- PUSH BUTTON
- LUMINAIRE

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE CITY OF SHEBOYGAN ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (920) 459-3444.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. INSTALL CABINET BASE 6" ABOVE SURFACE ELEVATION.
4. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.

N



LEGEND CONT'D

- PULL BOX, 24" X 42"
- VIDEO DETECTION AREA
- XX VIDEO DETECTION CAMERA
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G G GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
INDIANA AVENUE (CTH PP) AND TAYLOR AVENUE
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. LOCAL

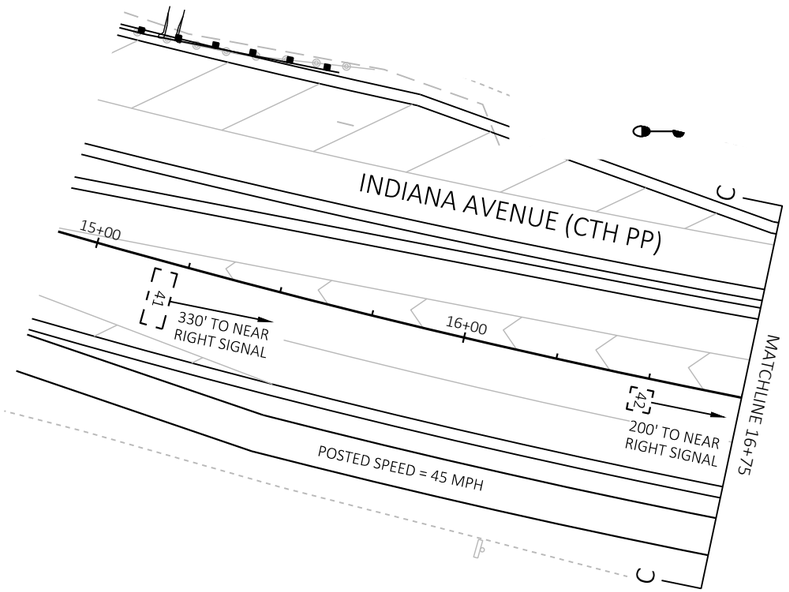
REGION CONTACT:
DESIGNED BY: STRAND ASSOCIATES
REVISED BY:

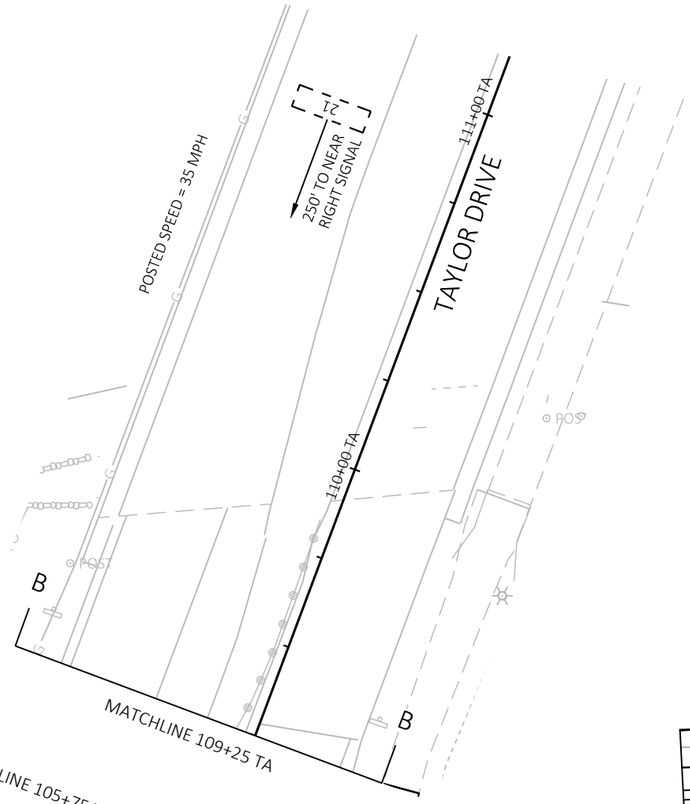
PAGE 1 OF 4

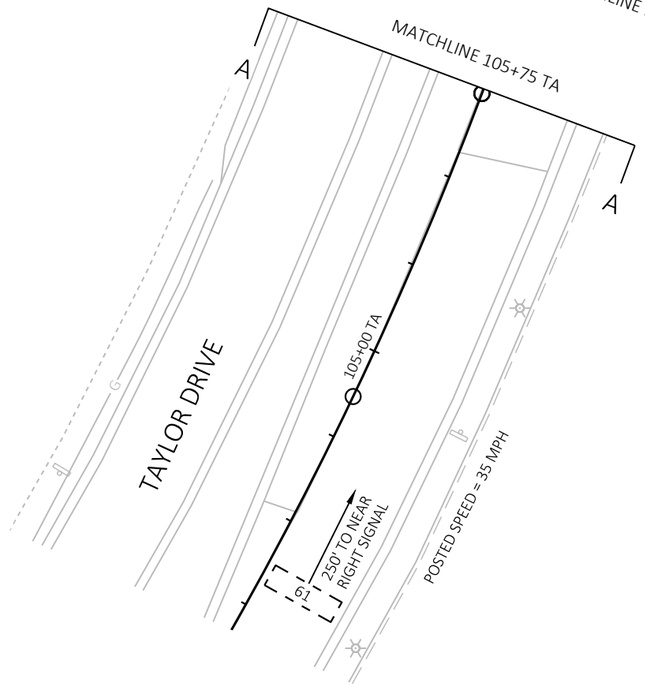
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC SIGNAL PLAN	SHEET 91	E

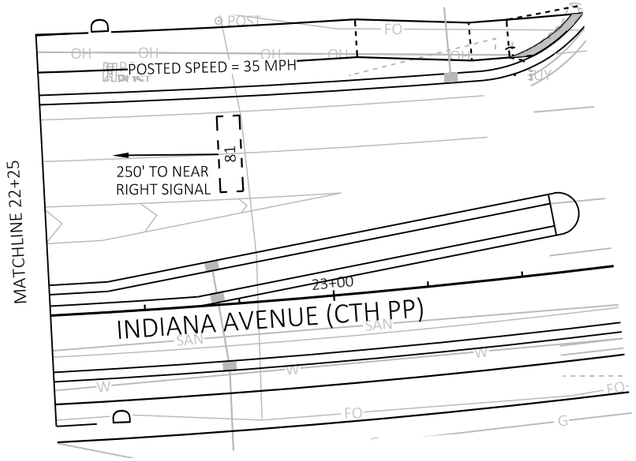
FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024100_SP.DWG
LAYOUT NAME - 024100_sp
PLOT DATE : 7/27/2021 9:09 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42









N

TRAFFIC CONTROL SIGNAL
INDIANA AVENUE (CTH PP) AND TAYLOR AVENUE
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. LOCAL

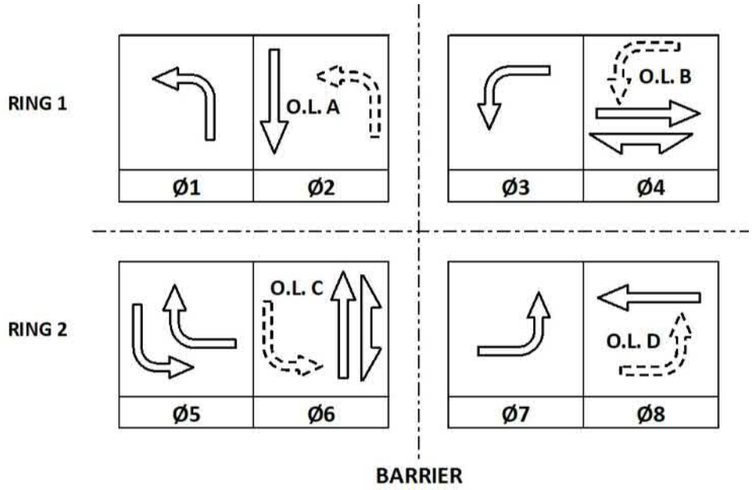
REGION CONTACT:
DESIGNED BY: STRAND ASSOCIATES
REVISED BY:

PAGE 2 OF 4

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC SIGNAL PLAN	SHEET 92	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024100_SP.DWG
LAYOUT NAME - 024101_sp
PLOT DATE : 7/27/2021 9:09 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	4,5	R
Ø2	6,7,8	R
Ø3	19,20	R
Ø4	11,12,13	R
Ø5	9,10, 16RT, 18RT	R
Ø6	1,2,3	R
Ø7	14,15	R
Ø8	16,17,18	R
Ø4P	21,22	
Ø6P	23,24	
OLA	4,5	R
OLB	19,20	R
OLC	9,10	R
OLD	14,15	R



CONTROLLER LOGIC

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

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 NO:	SS-

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

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

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	22	41	43	45	47	61	71	82	84							PLAN LOOP DETECTOR*(S)
ASSIGNED PHASE	1	2	4	4	4	4	6	7	8	8							ASSIGNED PHASE
OPERATION MODE	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	OPERATION MODE
SWITCH																	SWITCH
EXTEND	X		X		X		X	X		X							EXTEND
DELAY				X					X								DELAY

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	21	31	42	44	46	51	62	81	83	85							PLAN LOOP DETECTOR*(S)
ASSIGNED PHASE	2	3	4	4	4	5	6	8	8	8							ASSIGNED PHASE
OPERATION MODE	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	OPERATION MODE
SWITCH																	SWITCH
EXTEND	X	X	X		X	X		X		X							EXTEND
DELAY				X					X								DELAY

INDIANA AVENUE (CTH PP) & TAYLOR DRIVE
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO: LOCAL — CABINET TYPE: TS2
CONTROLLER TYPE: EPAC
DATE: 5/1/2020 — PAGE NO. 3 OF 4

PROJECT ID:	4291-02-71
INTERSECTION:	INDIANA AVENUE (CTH PP) & TAYLOR DRIVE

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	NO. OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	OTHER
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	12	4				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		6	RED	ORG	GRN								
SB2	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		5				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB3	15	14				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		16	RED	ORG	GRN		BLK/WHT	GRN/WHT					
		24								BLK	BLU		
		B										WHT/BLK	
SB4	12	12	RED	ORG	GRN								
		13	RED	ORG	GRN								
		15				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		23								BLK	BLU		
		B										WHT/BLK	
SB5	12	1	RED	ORG	GRN								
		9				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		22								BLK	BLU		
		B										WHT/BLK	
SB6	7	B										WHT/BLK	
SB7	12	7	RED	ORG	GRN								
		8	RED	ORG	GRN								
		10				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		21								BLK	BLU		
		B										WHT/BLK	
SB8	12	11	RED	ORG	GRN								
		19				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB9	12	12	RED	ORG	GRN								
			RED	ORG	GRN		BLK/WHT	GRN/WHT					
						RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				

*Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.
*Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.

Equipment grounding conductor 10 AWG Green XLP	
From	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB2	SB2
PB3	SB2
PB4	SB3
PB5	SB4
PB6	SB5
PB7	SB6
PB8	SB7
PB9	SB8
PB10	CB1
PB11	CB1

VIDEO DETECTION CABLE	
From	To
CB1	SB2 (V2)
CB1	SB4 (V3)
CB1	SB7 (V4)
CB1	SB9 (V1)

EVP CABLE	
From	To
CB1	SB2 (HEAD A)
CB1	SB4 (HEAD C)
CB1	SB7 (HEAD B)
CB1	SB9 (HEAD D)

Lighting UF 2-10 AWG Grounded	
From	To
CB1	SB1
CB1	SB2
SB2	SB3
CB1	SB4
SB4	SB5
CB1	SB9
CB1	SB8
SB8	SB7

TRAFFIC CONTROL SIGNAL
INDIANA AVENUE (CTH PP) AND TAYLOR AVENUE
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. LOCAL

REGION CONTACT:
DESIGNED BY: STRAND ASSOCIATES
REVISED BY:

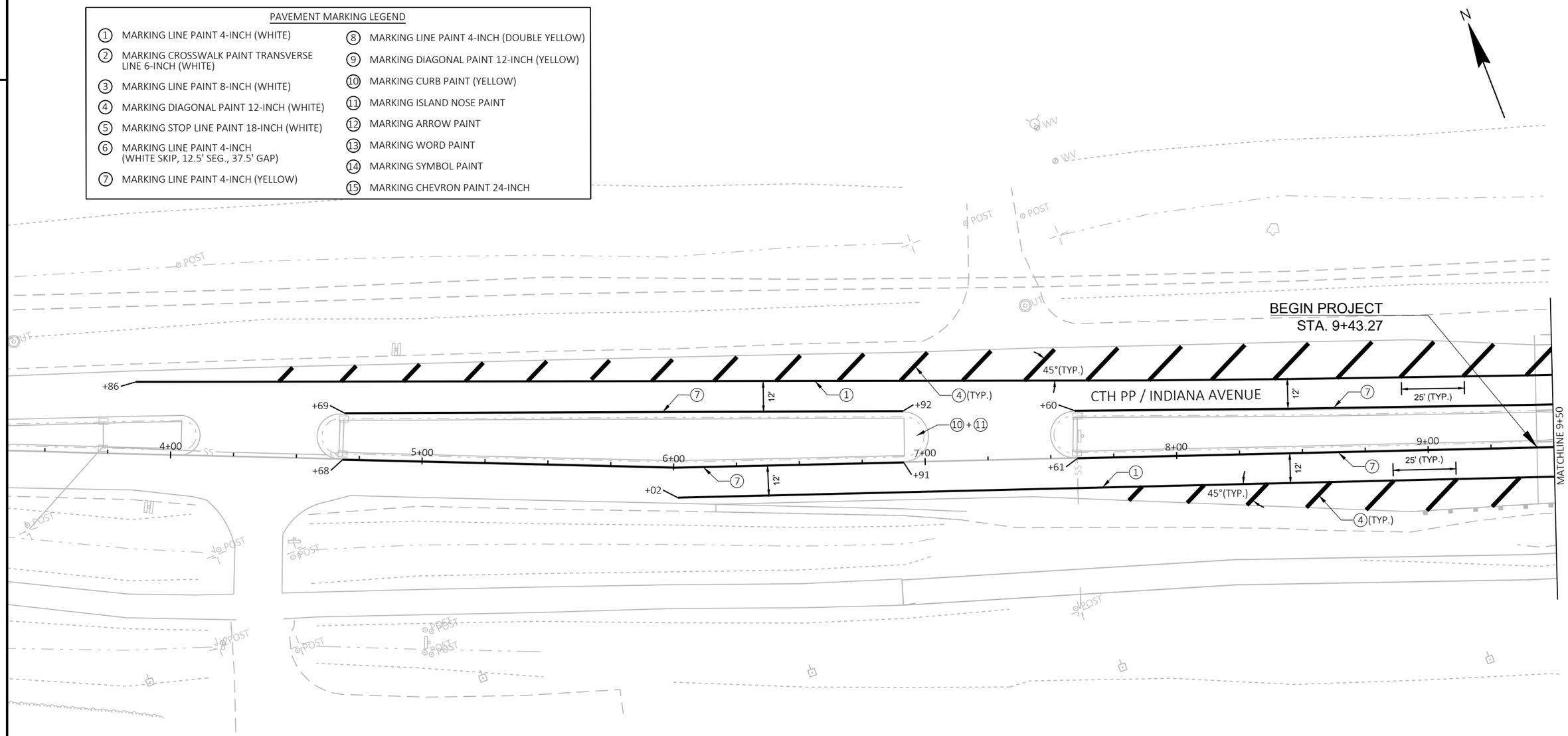
PAGE 4 OF 4

2

2

PAVEMENT MARKING LEGEND

1. MARKING LINE PAINT 4-INCH (WHITE)
2. MARKING CROSSWALK PAINT TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING LINE PAINT 8-INCH (WHITE)
4. MARKING DIAGONAL PAINT 12-INCH (WHITE)
5. MARKING STOP LINE PAINT 18-INCH (WHITE)
6. MARKING LINE PAINT 4-INCH (WHITE SKIP, 12.5' SEG., 37.5' GAP)
7. MARKING LINE PAINT 4-INCH (YELLOW)
8. MARKING LINE PAINT 4-INCH (DOUBLE YELLOW)
9. MARKING DIAGONAL PAINT 12-INCH (YELLOW)
10. MARKING CURB PAINT (YELLOW)
11. MARKING ISLAND NOSE PAINT
12. MARKING ARROW PAINT
13. MARKING WORD PAINT
14. MARKING SYMBOL PAINT
15. MARKING CHEVRON PAINT 24-INCH



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PAVEMENT MARKING	SHEET 95	E

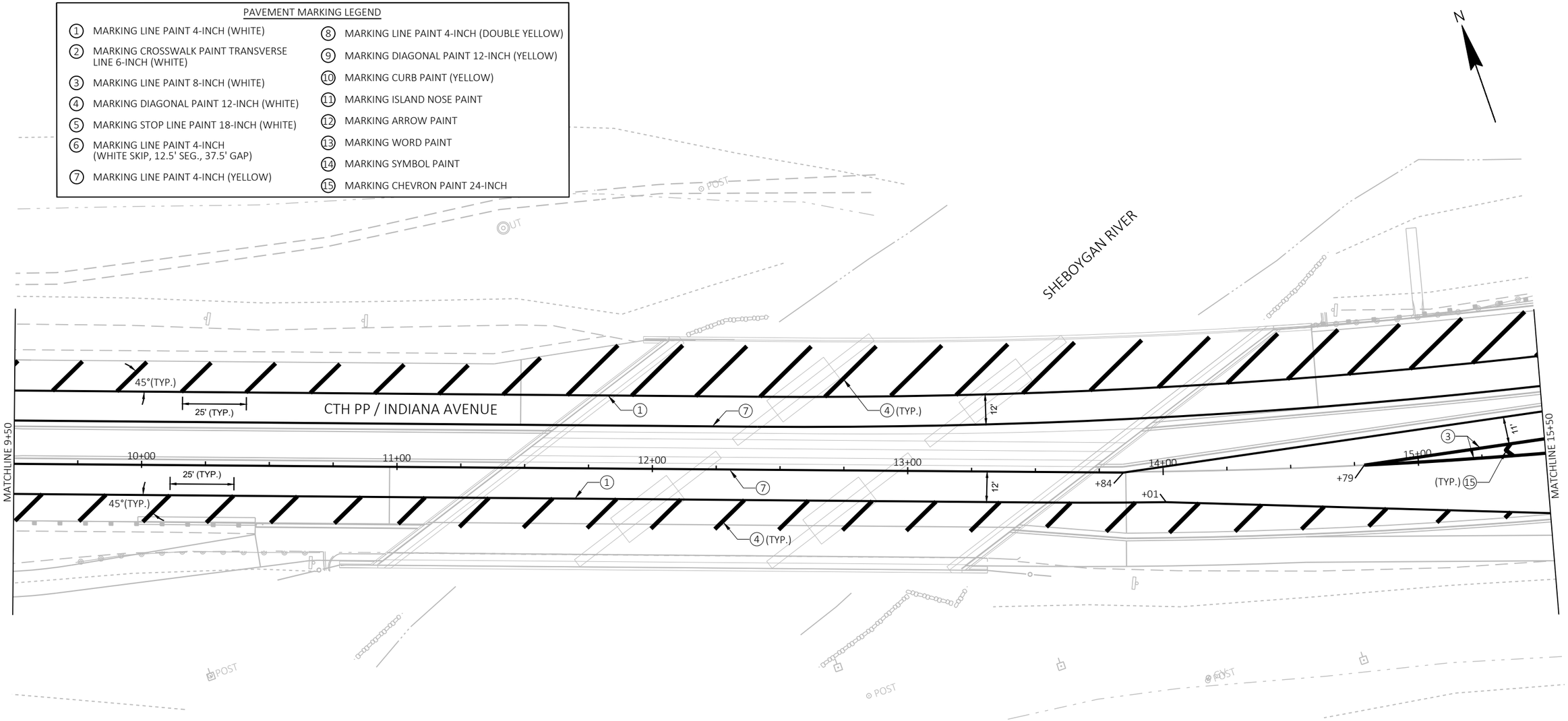
FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024501_pm
PLOT DATE : 9/28/2021 7:35 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

PAVEMENT MARKING LEGEND

1. MARKING LINE PAINT 4-INCH (WHITE)
2. MARKING CROSSWALK PAINT TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING LINE PAINT 8-INCH (WHITE)
4. MARKING DIAGONAL PAINT 12-INCH (WHITE)
5. MARKING STOP LINE PAINT 18-INCH (WHITE)
6. MARKING LINE PAINT 4-INCH (WHITE SKIP, 12.5' SEG., 37.5' GAP)
7. MARKING LINE PAINT 4-INCH (YELLOW)
8. MARKING LINE PAINT 4-INCH (DOUBLE YELLOW)
9. MARKING DIAGONAL PAINT 12-INCH (YELLOW)
10. MARKING CURB PAINT (YELLOW)
11. MARKING ISLAND NOSE PAINT
12. MARKING ARROW PAINT
13. MARKING WORD PAINT
14. MARKING SYMBOL PAINT
15. MARKING CHEVRON PAINT 24-INCH



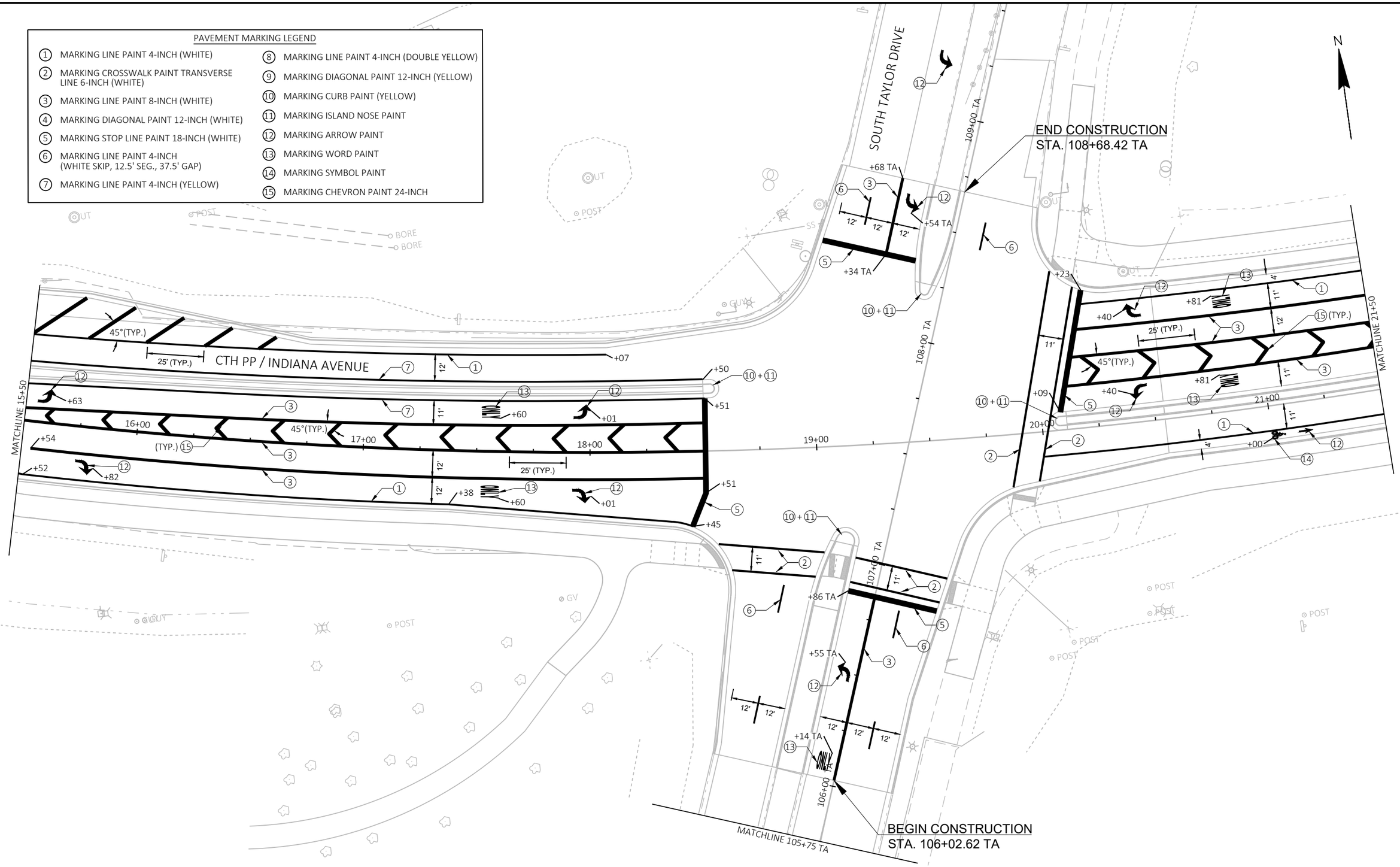
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PAVEMENT MARKING	SHEET 96	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024502_pm
PLOT DATE : 9/28/2021 7:36 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

PAVEMENT MARKING LEGEND

1. MARKING LINE PAINT 4-INCH (WHITE)
2. MARKING CROSSWALK PAINT TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING LINE PAINT 8-INCH (WHITE)
4. MARKING DIAGONAL PAINT 12-INCH (WHITE)
5. MARKING STOP LINE PAINT 18-INCH (WHITE)
6. MARKING LINE PAINT 4-INCH (WHITE SKIP, 12.5' SEG., 37.5' GAP)
7. MARKING LINE PAINT 4-INCH (YELLOW)
8. MARKING LINE PAINT 4-INCH (DOUBLE YELLOW)
9. MARKING DIAGONAL PAINT 12-INCH (YELLOW)
10. MARKING CURB PAINT (YELLOW)
11. MARKING ISLAND NOSE PAINT
12. MARKING ARROW PAINT
13. MARKING WORD PAINT
14. MARKING SYMBOL PAINT
15. MARKING CHEVRON PAINT 24-INCH



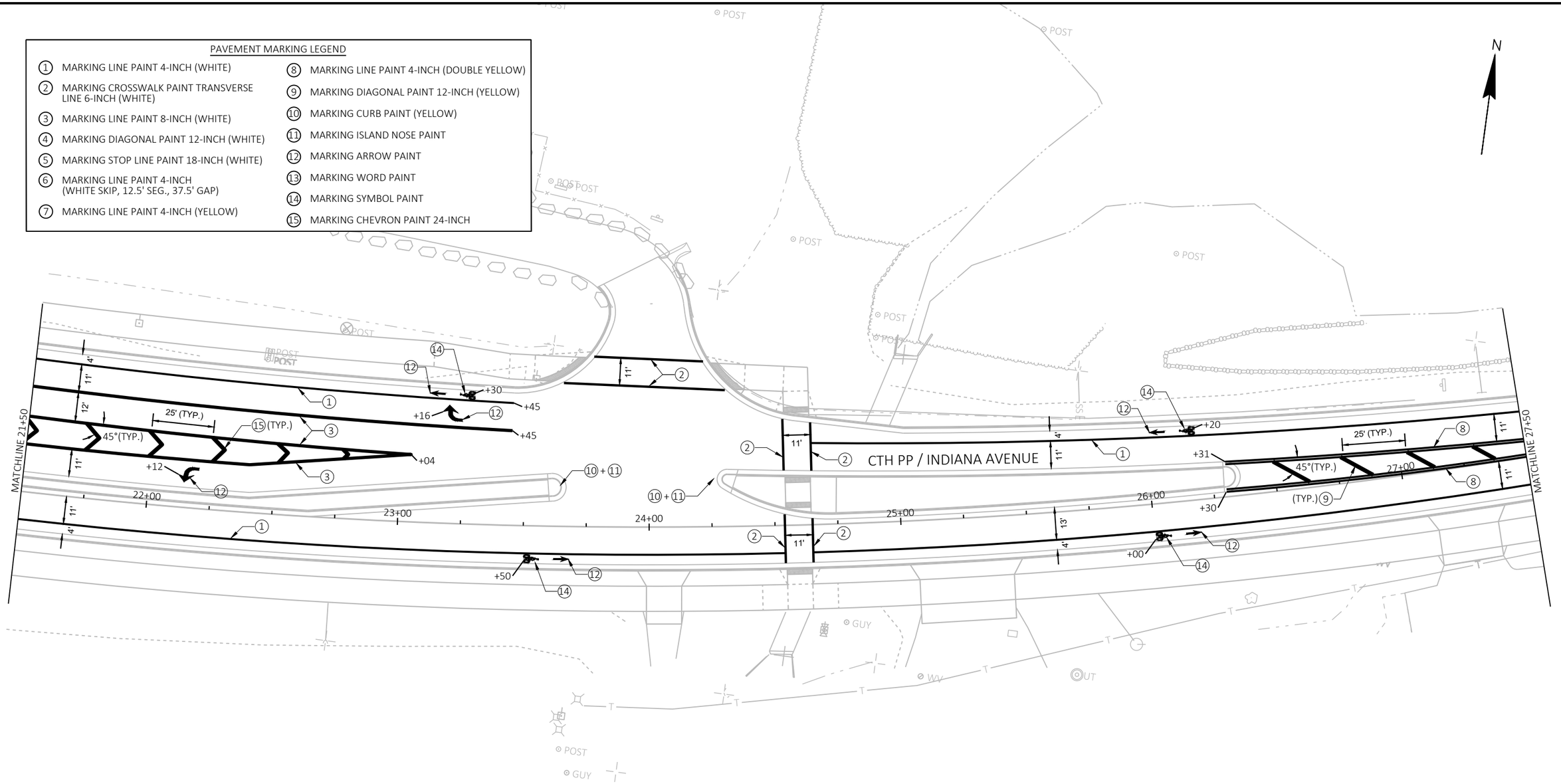
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PAVEMENT MARKING	SHEET 97	E

2

2

PAVEMENT MARKING LEGEND

1. MARKING LINE PAINT 4-INCH (WHITE)
2. MARKING CROSSWALK PAINT TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING LINE PAINT 8-INCH (WHITE)
4. MARKING DIAGONAL PAINT 12-INCH (WHITE)
5. MARKING STOP LINE PAINT 18-INCH (WHITE)
6. MARKING LINE PAINT 4-INCH (WHITE SKIP, 12.5' SEG., 37.5' GAP)
7. MARKING LINE PAINT 4-INCH (YELLOW)
8. MARKING LINE PAINT 4-INCH (DOUBLE YELLOW)
9. MARKING DIAGONAL PAINT 12-INCH (YELLOW)
10. MARKING CURB PAINT (YELLOW)
11. MARKING ISLAND NOSE PAINT
12. MARKING ARROW PAINT
13. MARKING WORD PAINT
14. MARKING SYMBOL PAINT
15. MARKING CHEVRON PAINT 24-INCH



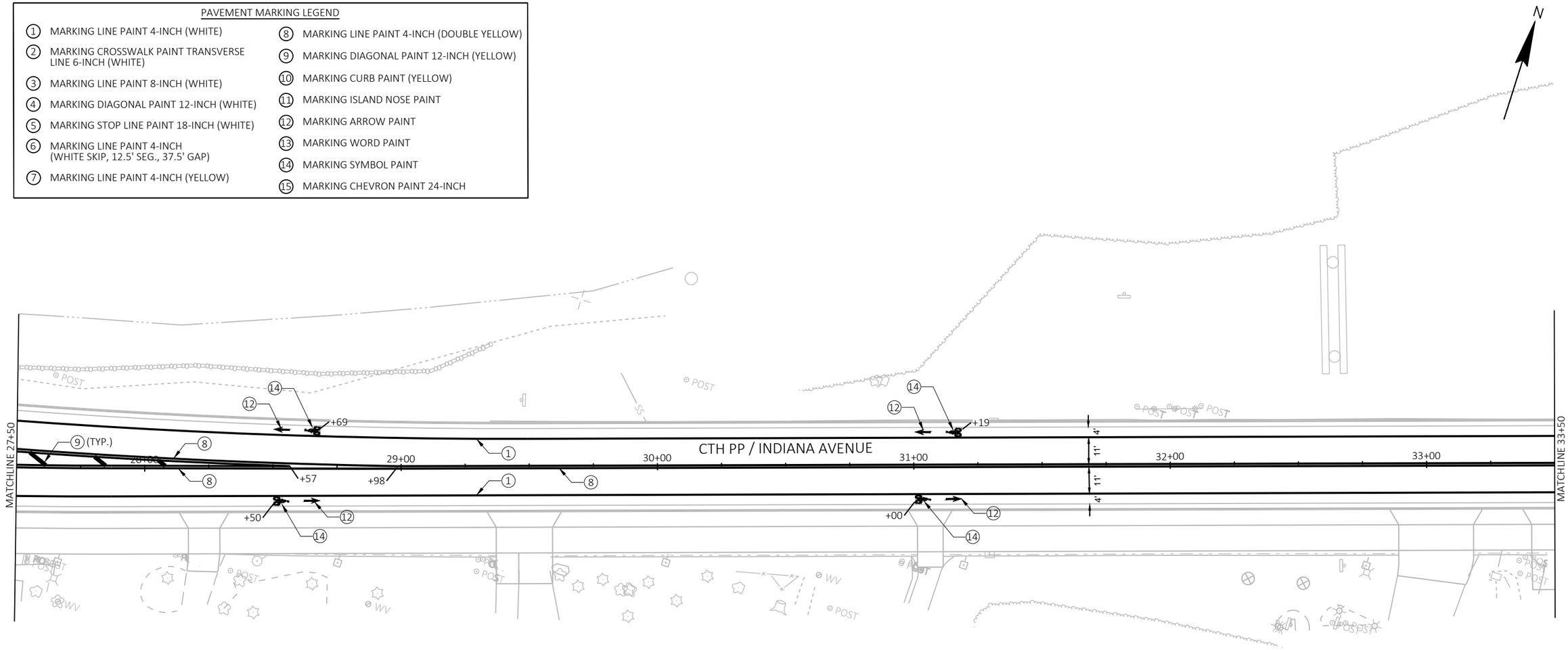
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PAVEMENT MARKING	SHEET 98	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024504_pm
PLOT DATE : 9/28/2021 7:36 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

PAVEMENT MARKING LEGEND

1. MARKING LINE PAINT 4-INCH (WHITE)
2. MARKING CROSSWALK PAINT TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING LINE PAINT 8-INCH (WHITE)
4. MARKING DIAGONAL PAINT 12-INCH (WHITE)
5. MARKING STOP LINE PAINT 18-INCH (WHITE)
6. MARKING LINE PAINT 4-INCH (WHITE SKIP, 12.5' SEG., 37.5' GAP)
7. MARKING LINE PAINT 4-INCH (YELLOW)
8. MARKING LINE PAINT 4-INCH (DOUBLE YELLOW)
9. MARKING DIAGONAL PAINT 12-INCH (YELLOW)
10. MARKING CURB PAINT (YELLOW)
11. MARKING ISLAND NOSE PAINT
12. MARKING ARROW PAINT
13. MARKING WORD PAINT
14. MARKING SYMBOL PAINT
15. MARKING CHEVRON PAINT 24-INCH



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PAVEMENT MARKING	SHEET 99	E

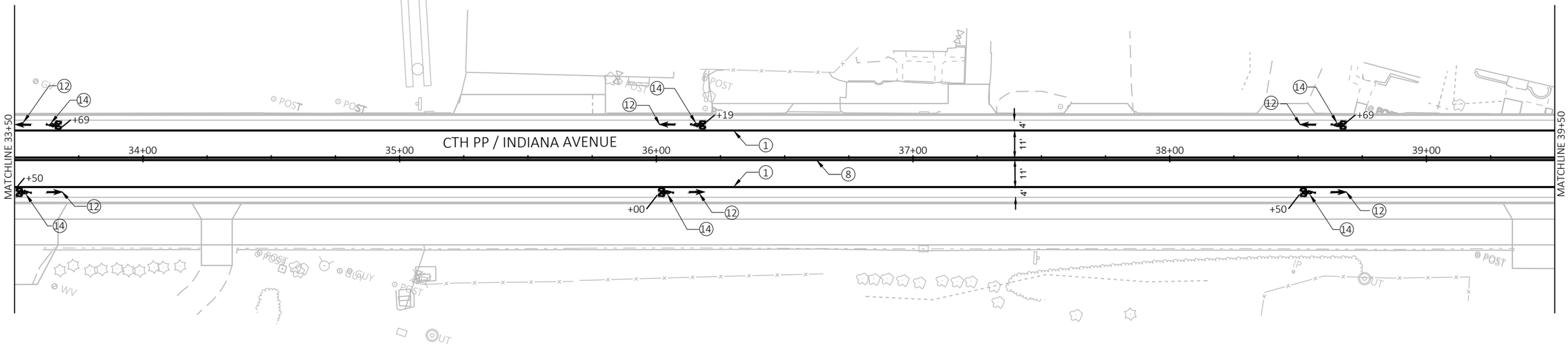
FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024505_pm
PLOT DATE : 9/28/2021 7:36 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

PAVEMENT MARKING LEGEND

1. MARKING LINE PAINT 4-INCH (WHITE)
2. MARKING CROSSWALK PAINT TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING LINE PAINT 8-INCH (WHITE)
4. MARKING DIAGONAL PAINT 12-INCH (WHITE)
5. MARKING STOP LINE PAINT 18-INCH (WHITE)
6. MARKING LINE PAINT 4-INCH (WHITE SKIP, 12.5' SEG., 37.5' GAP)
7. MARKING LINE PAINT 4-INCH (YELLOW)
8. MARKING LINE PAINT 4-INCH (DOUBLE YELLOW)
9. MARKING DIAGONAL PAINT 12-INCH (YELLOW)
10. MARKING CURB PAINT (YELLOW)
11. MARKING ISLAND NOSE PAINT
12. MARKING ARROW PAINT
13. MARKING WORD PAINT
14. MARKING SYMBOL PAINT
15. MARKING CHEVRON PAINT 24-INCH

N

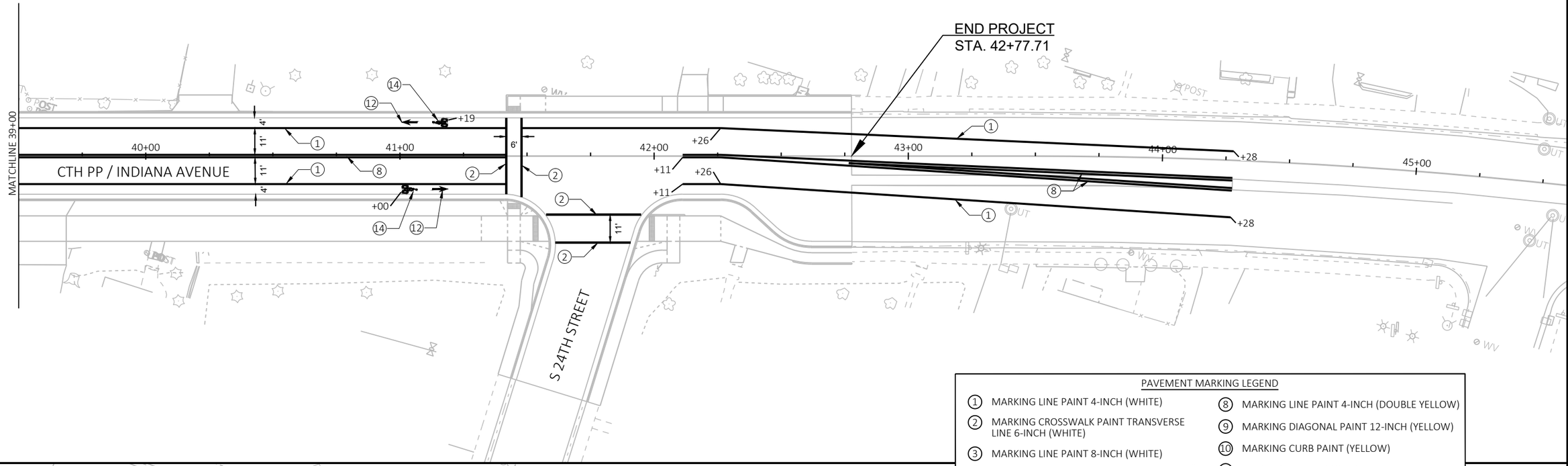


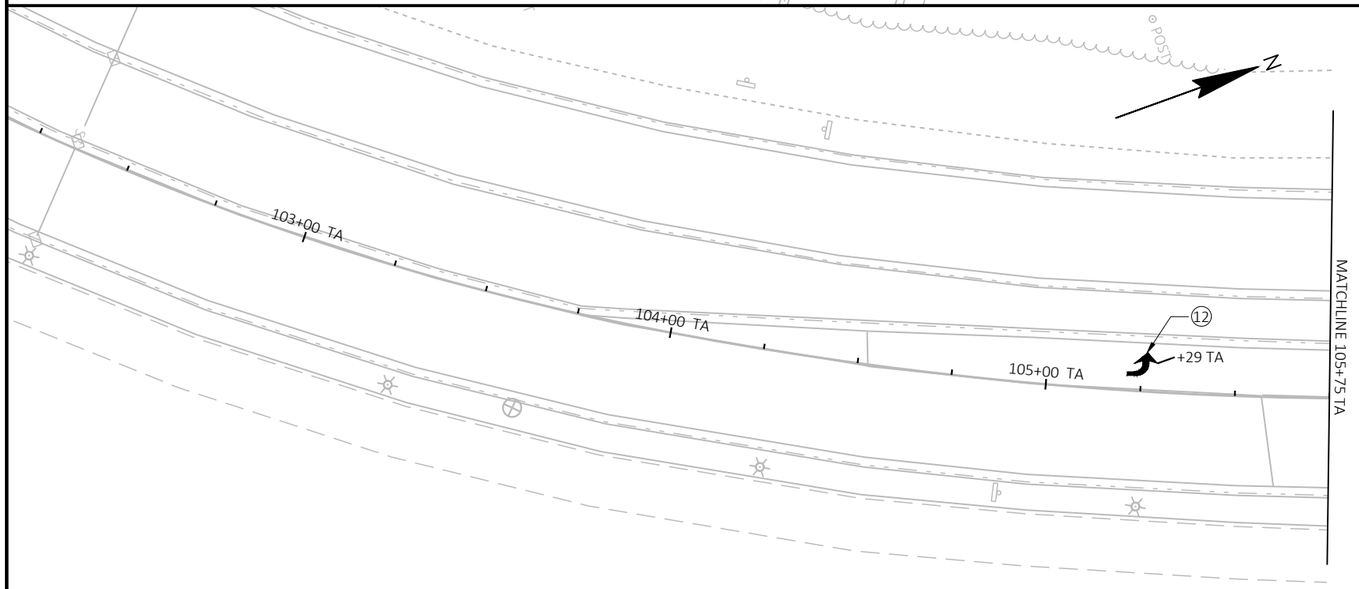
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PAVEMENT MARKING	SHEET 100	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024506_pm
PLOT DATE : 9/28/2021 7:36 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



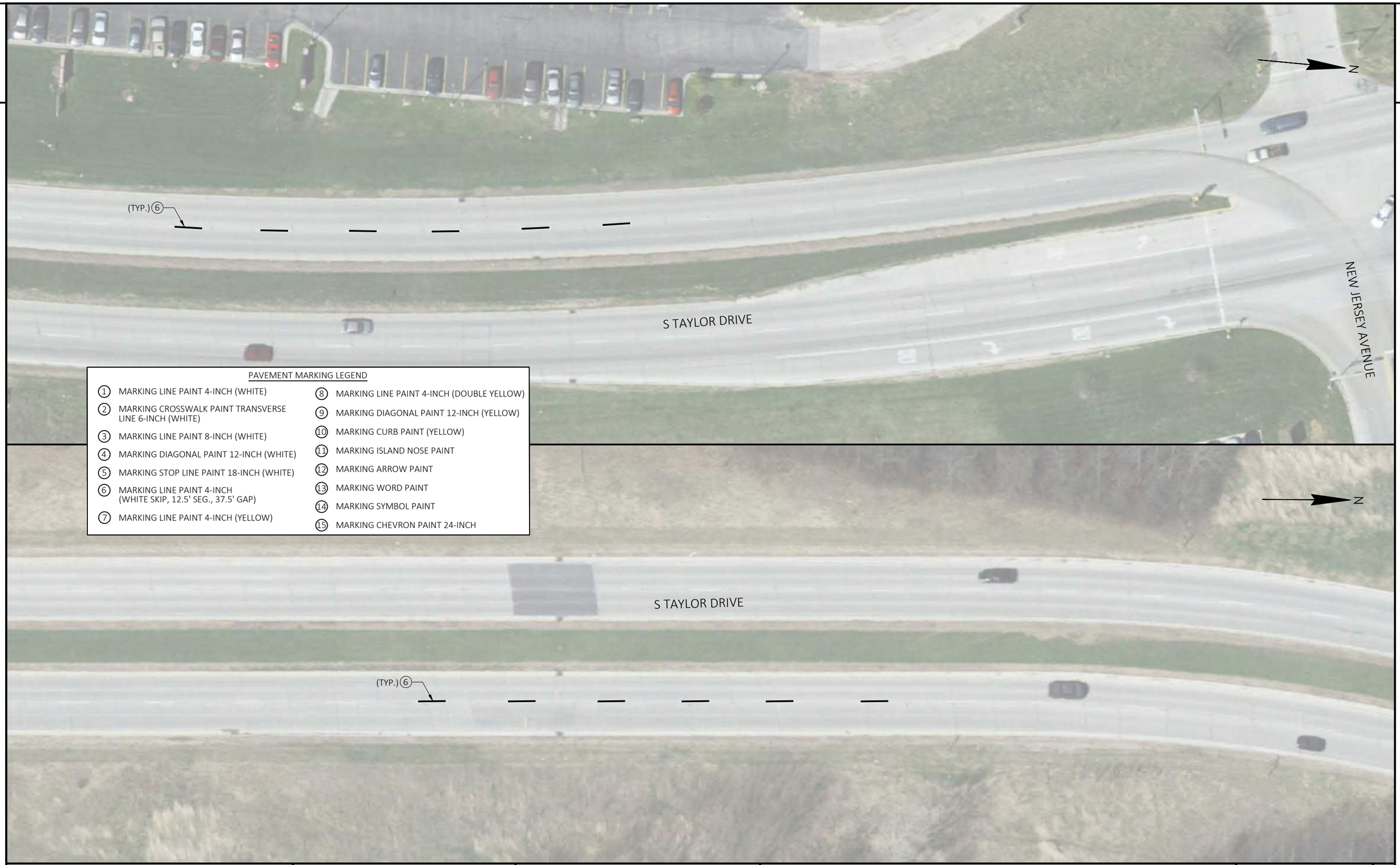


PAVEMENT MARKING LEGEND

1. MARKING LINE PAINT 4-INCH (WHITE)
2. MARKING CROSSWALK PAINT TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING LINE PAINT 8-INCH (WHITE)
4. MARKING DIAGONAL PAINT 12-INCH (WHITE)
5. MARKING STOP LINE PAINT 18-INCH (WHITE)
6. MARKING LINE PAINT 4-INCH (WHITE SKIP, 12.5' SEG., 37.5' GAP)
7. MARKING LINE PAINT 4-INCH (YELLOW)
8. MARKING LINE PAINT 4-INCH (DOUBLE YELLOW)
9. MARKING DIAGONAL PAINT 12-INCH (YELLOW)
10. MARKING CURB PAINT (YELLOW)
11. MARKING ISLAND NOSE PAINT
12. MARKING ARROW PAINT
13. MARKING WORD PAINT
14. MARKING SYMBOL PAINT
15. MARKING CHEVRON PAINT 24-INCH

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PAVEMENT MARKING	SHEET 101	E

2



PAVEMENT MARKING LEGEND

1. MARKING LINE PAINT 4-INCH (WHITE)
2. MARKING CROSSWALK PAINT TRANSVERSE LINE 6-INCH (WHITE)
3. MARKING LINE PAINT 8-INCH (WHITE)
4. MARKING DIAGONAL PAINT 12-INCH (WHITE)
5. MARKING STOP LINE PAINT 18-INCH (WHITE)
6. MARKING LINE PAINT 4-INCH (WHITE SKIP, 12.5' SEG., 37.5' GAP)
7. MARKING LINE PAINT 4-INCH (YELLOW)
8. MARKING LINE PAINT 4-INCH (DOUBLE YELLOW)
9. MARKING DIAGONAL PAINT 12-INCH (YELLOW)
10. MARKING CURB PAINT (YELLOW)
11. MARKING ISLAND NOSE PAINT
12. MARKING ARROW PAINT
13. MARKING WORD PAINT
14. MARKING SYMBOL PAINT
15. MARKING CHEVRON PAINT 24-INCH

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PAVEMENT MARKING	SHEET 102	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024508_pm
PLOT DATE : 9/28/2021 7:37 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

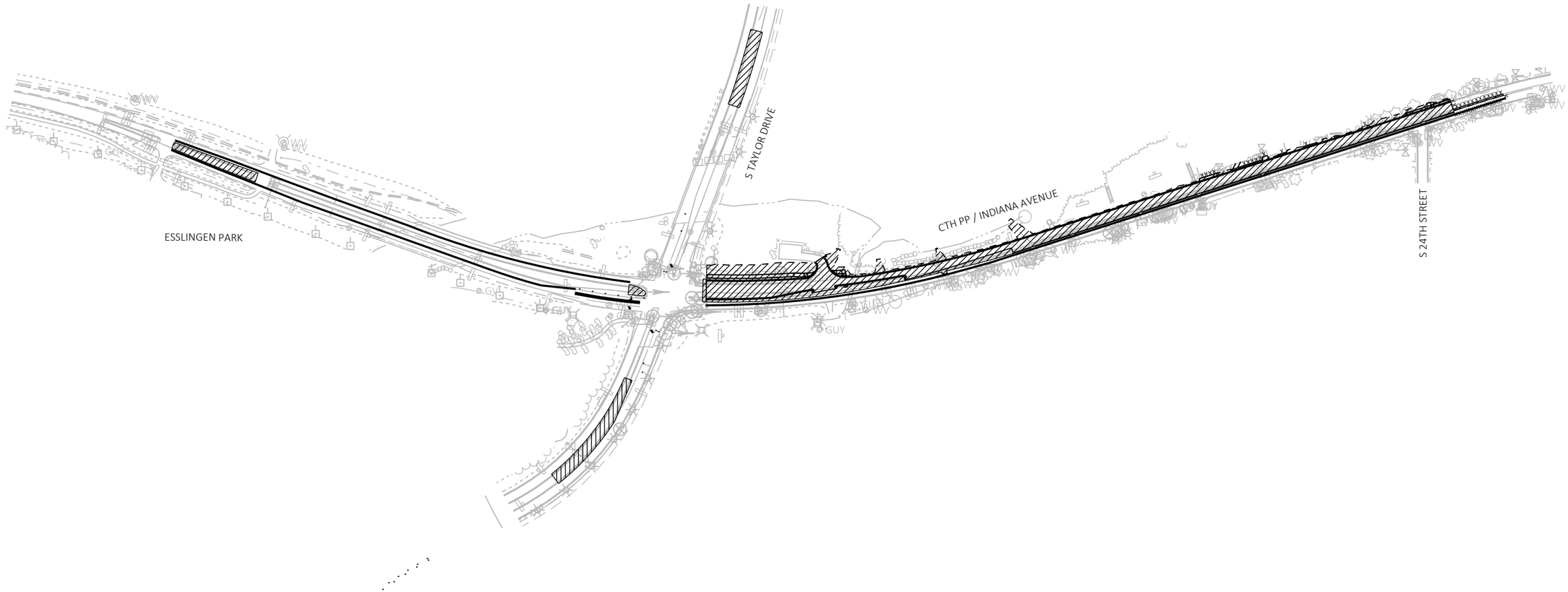
2

N

TRAFFIC CONTROL NOTES

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
2. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
3. 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.
4. SIGNS DESIGNATED AS "W0" ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
5. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
6. PAVEMENT MARKING WHICH MAY CONFLICT WITH TRAFFIC CONTROL "IN-USE" SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
7. TEMPORARY MARKING ON EXISTING OR TEMPORARY PAVEMENT SHALL BE TEMPORARY MARKING PAINT.
8. TEMPORARY MARKING ON NEW PAVEMENT SHALL BE TEMPORARY MARKING REMOVABLE TAPE.

NOTE: ALL TRAFFIC CONTROL DEVICES AND TEMPORARY MARKING REQUIRED FOR STAGE 2 MUST BE IN PLACE UPON THE COMPLETION OF STAGE 1 AND PRIOR TO SWITCHING TRAFFIC TO STAGE 2.

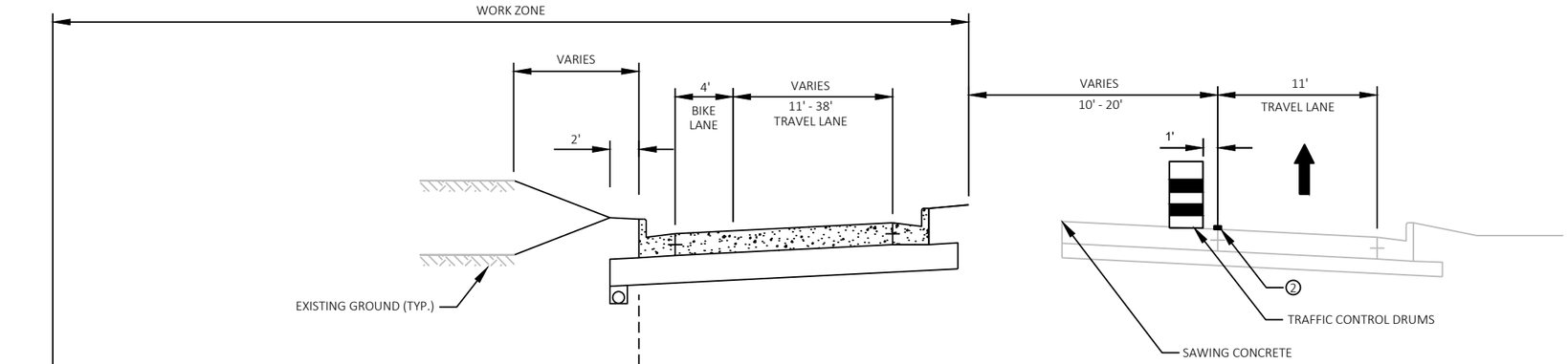


PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1 OVERVIEW	SHEET 103	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1_OV.DWG
LAYOUT NAME - 025100_ov1

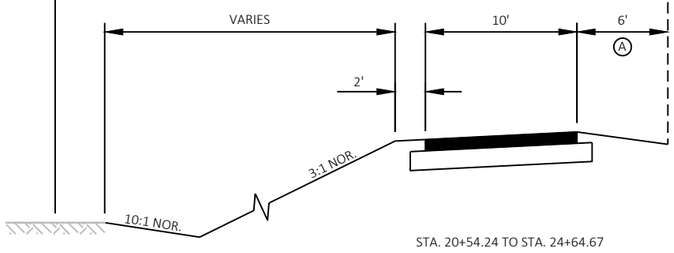
PLOT DATE : 7/30/2021 10:40 AM PLOT BY : ANDERSON, ERIC PLOT NAME :

2



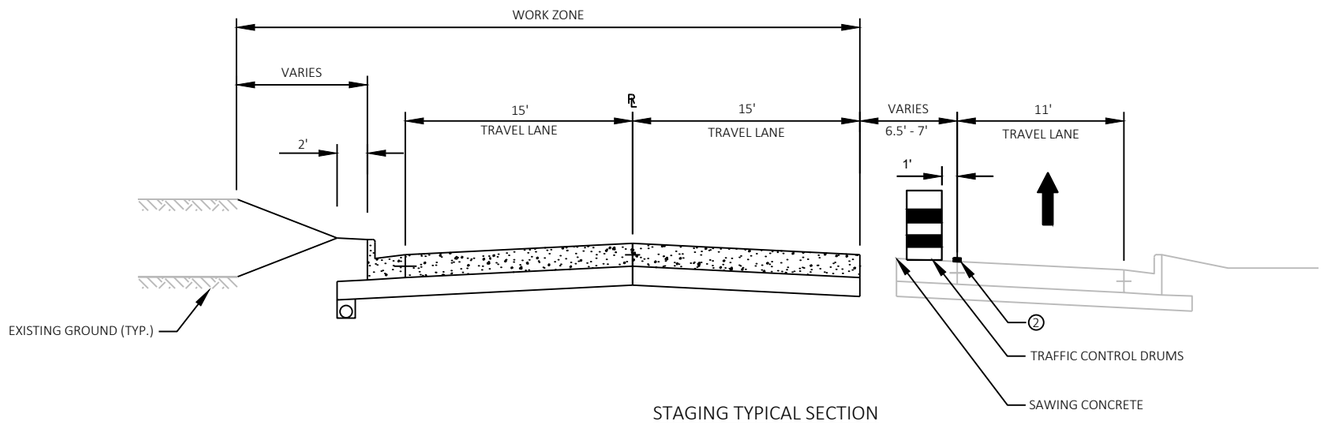
STAGING TYPICAL SECTION
INDIANA AVE
STAGE 1

STA. 20+54.24 TO STA. 26+35.02



STA. 20+54.24 TO STA. 24+64.67

① TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
② TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
③ TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
④ TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)



STAGING TYPICAL SECTION
INDIANA AVE
STAGE 1

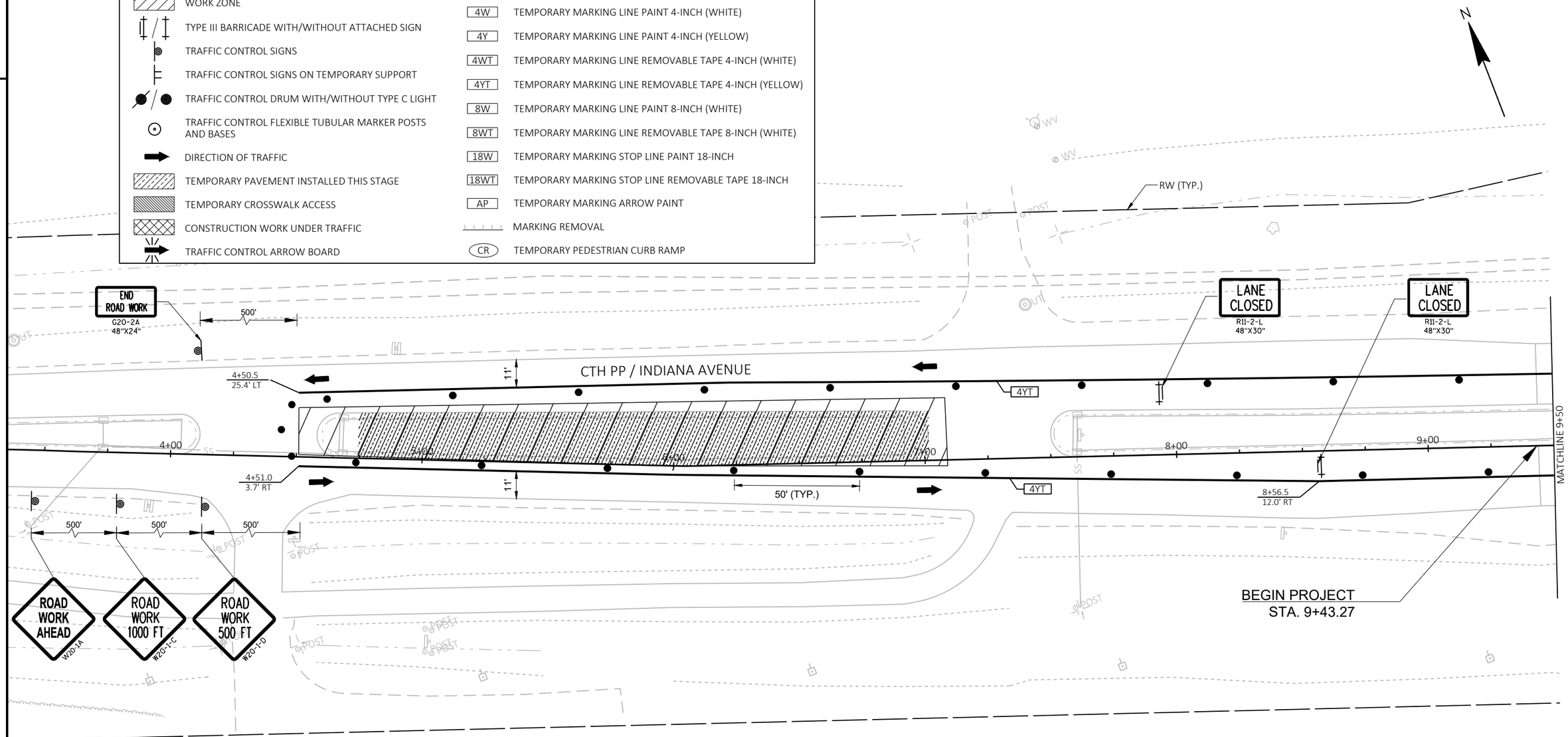
STA. 26+35.02 TO STA. 42+77.71

2

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP



FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER UNDIVIDED ROAD OPEN TO TRAFFIC".

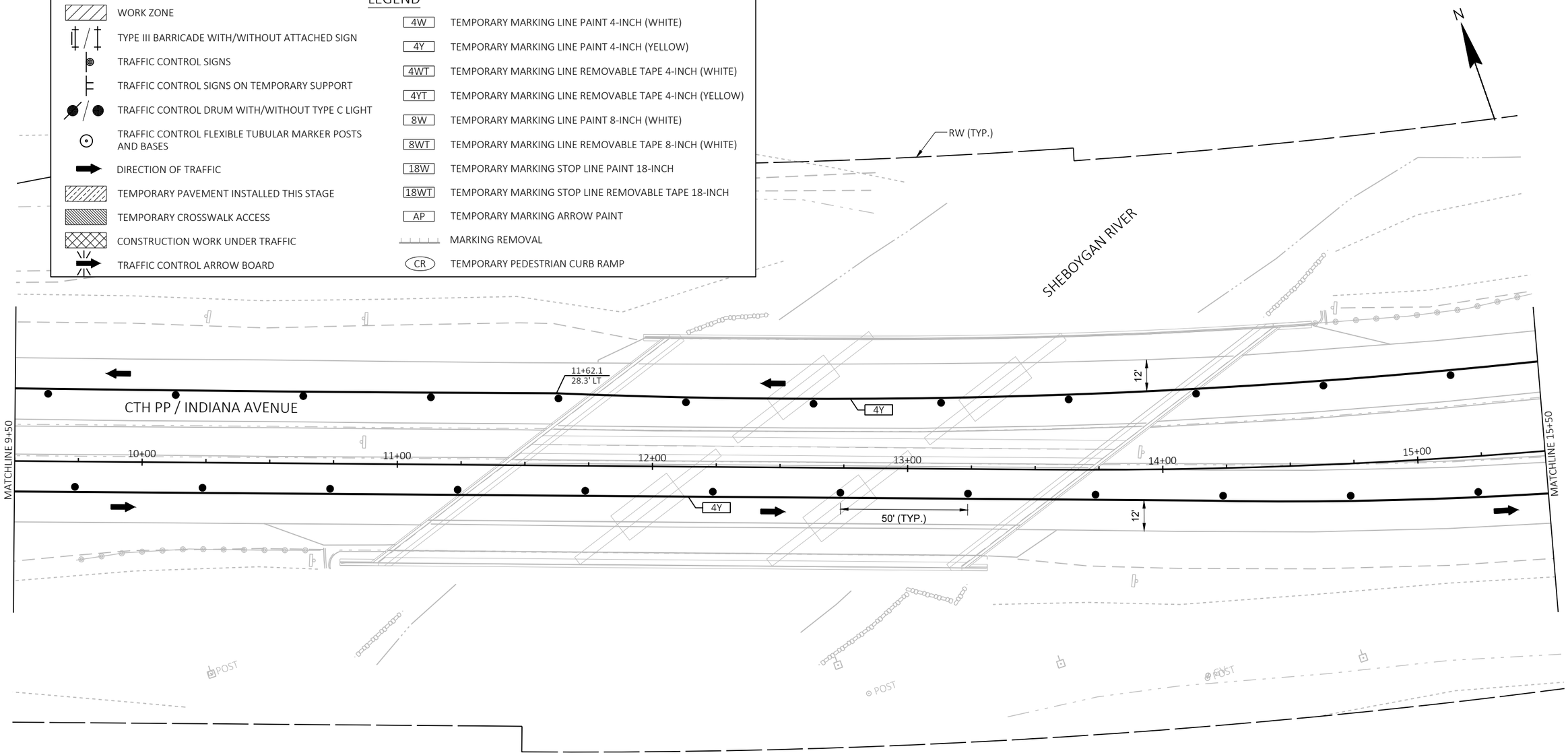
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1	SHEET 105	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1.DWG
LAYOUT NAME - 025101_tc
PLOT DATE : 7/30/2021 10:40 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1	SHEET 106	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1.DWG
LAYOUT NAME - 025102_tc

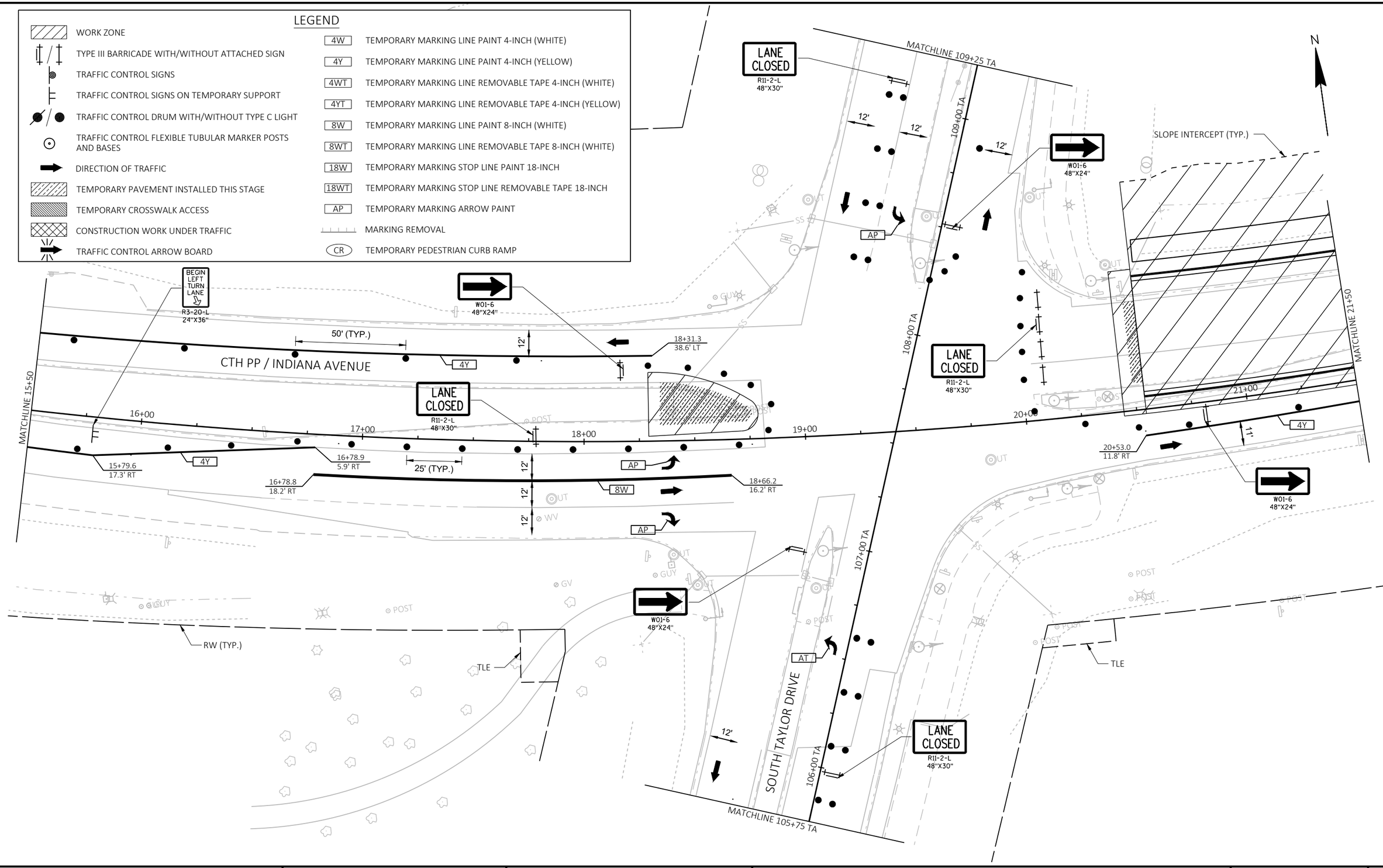
PLOT DATE : 7/30/2021 10:40 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

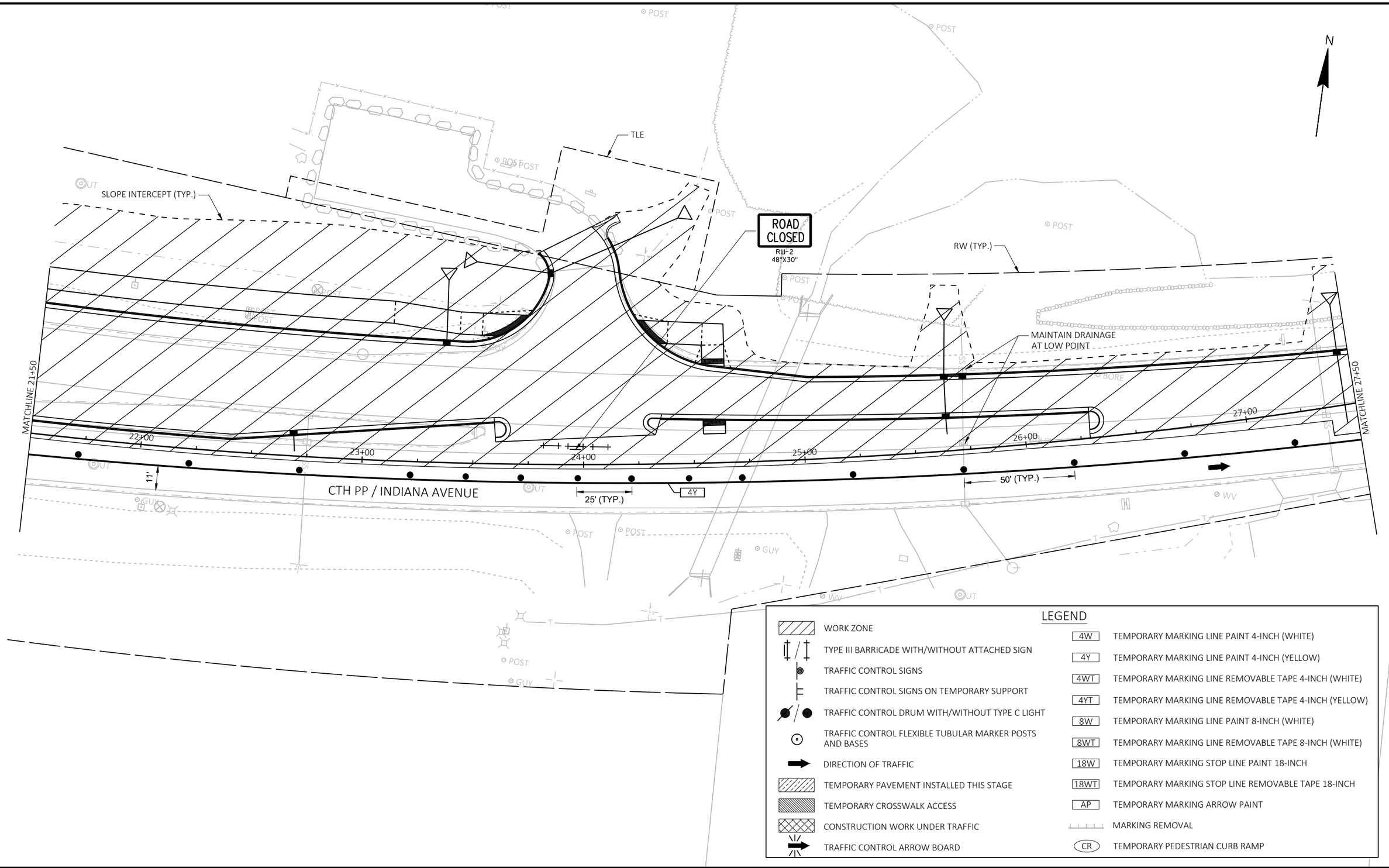


PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1	SHEET 107	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1.DWG
LAYOUT NAME - 025103_tc

PLOT DATE : 7/30/2021 10:40 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

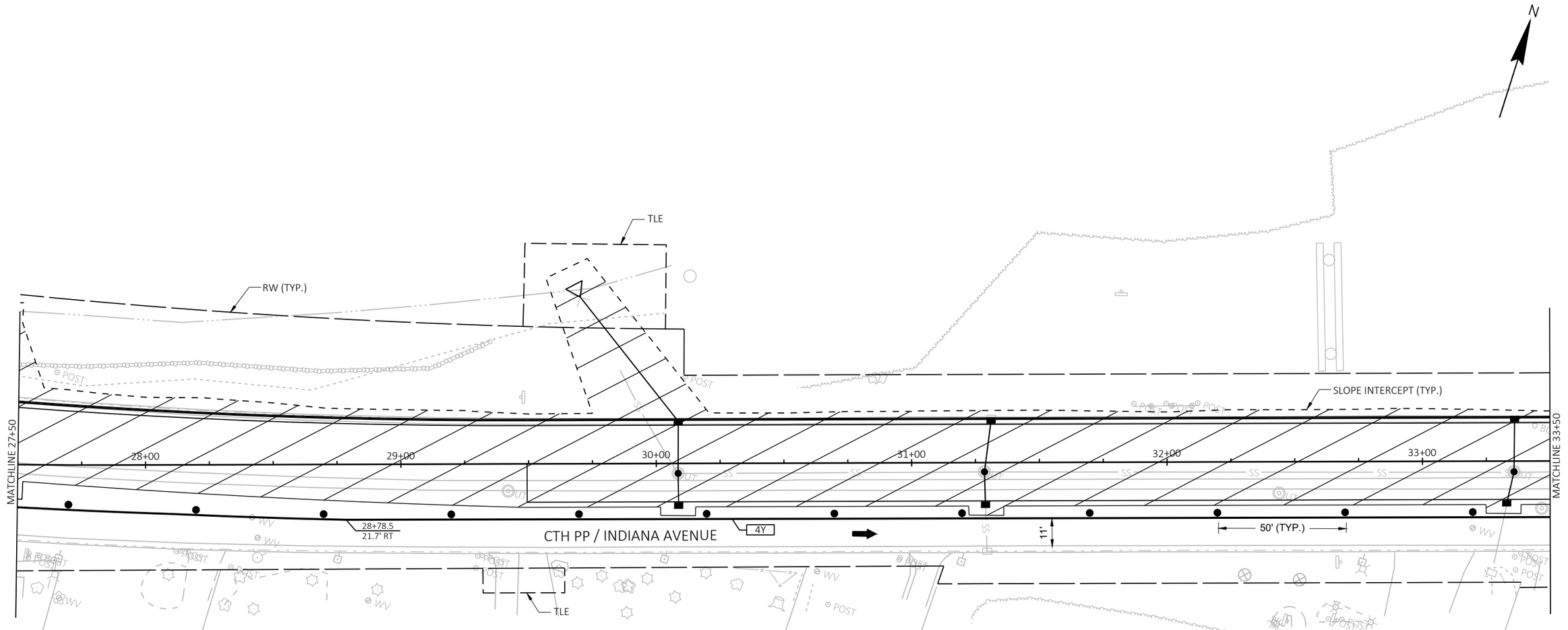
- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1	SHEET 108	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1.DWG
LAYOUT NAME - 025104_tc
PLOT DATE : 7/30/2021 10:40 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

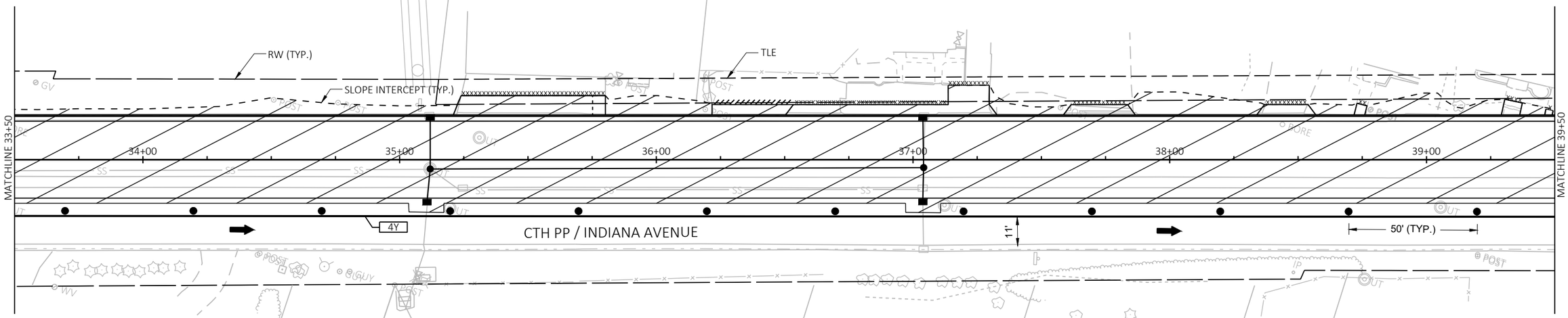
- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1	SHEET 109	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1.DWG
LAYOUT NAME - 025105_tc
PLOT DATE : 7/30/2021 10:40 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

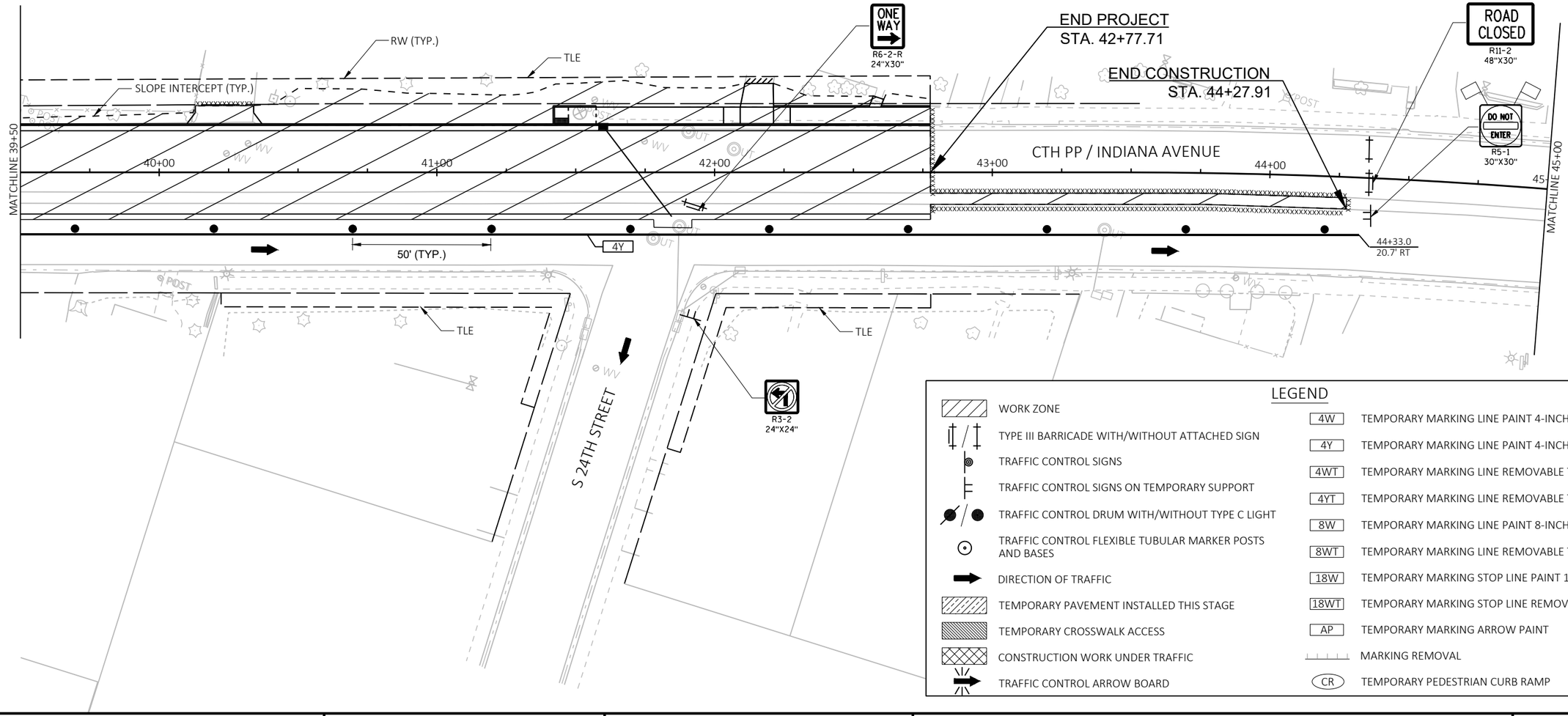
- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1	SHEET 110	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1.DWG
LAYOUT NAME - 025106_tc
PLOT DATE : 7/30/2021 10:41 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1	SHEET 111	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1.DWG
LAYOUT NAME - 025107_tc
PLOT DATE : 7/30/2021 10:41 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

N

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
24"X12"

ONE WAY
R6-2-R
24"X30"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

ROAD CLOSED 500 FT
W20-3-D

ROAD CLOSED 1000 FT
W20-3-C

ROAD CLOSED AHEAD
W20-3-A

500'
500'
500'

MATCHLINE 45+00

46+00
47+00
48+00
49+00

CTH PP / INDIANA AVENUE

W1-6
48"X24"

S 23RD STREET

S 22ND STREET

R3-2
24"X24"

CR

OUT

W

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1	SHEET 112	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1.DWG
LAYOUT NAME - 025114_tc
PLOT DATE : 7/30/2021 10:41 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

N

RW (TYP.)

SOUTH TAYLOR DRIVE

350' 350' 350' 245' MERGING TAPER

4YT

25' (TYP.)

14+01.6
1998.4' RT

13+64.9
1762.7' RT

ROAD WORK AHEAD
W20-1A

LEFT LANE CLOSED AHEAD
W20-5S-A

W04-2L

MATCHLINE A

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1	SHEET 113	E

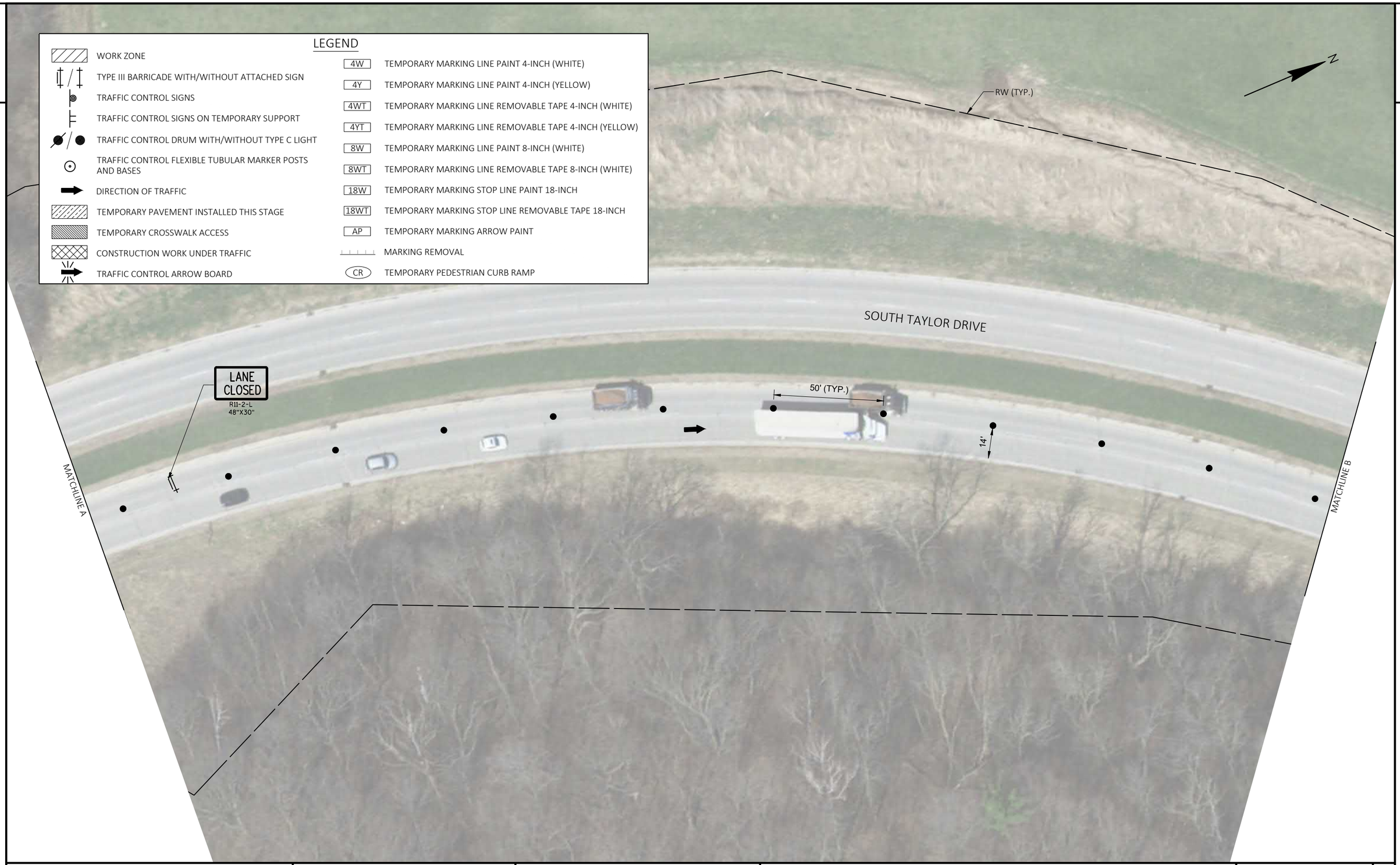
FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1.DWG
LAYOUT NAME - 025115_tc

PLOT DATE : 7/30/2021 10:41 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1	SHEET 114 E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1.DWG
LAYOUT NAME - 025108_tc

PLOT DATE : 7/30/2021 10:41 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

UNIVERSITY DRIVE

SOUTH TAYLOR DRIVE

MATCHLINE B

MATCHLINE 100+00 TA

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

LANE CLOSED
R11-2-L
48"X30"

END ROAD WORK
G20-2A
48"X24"

W01-6
48"X24"

14'

25' (TYP.)

50' (TYP.)

RW (TYP.)

N

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

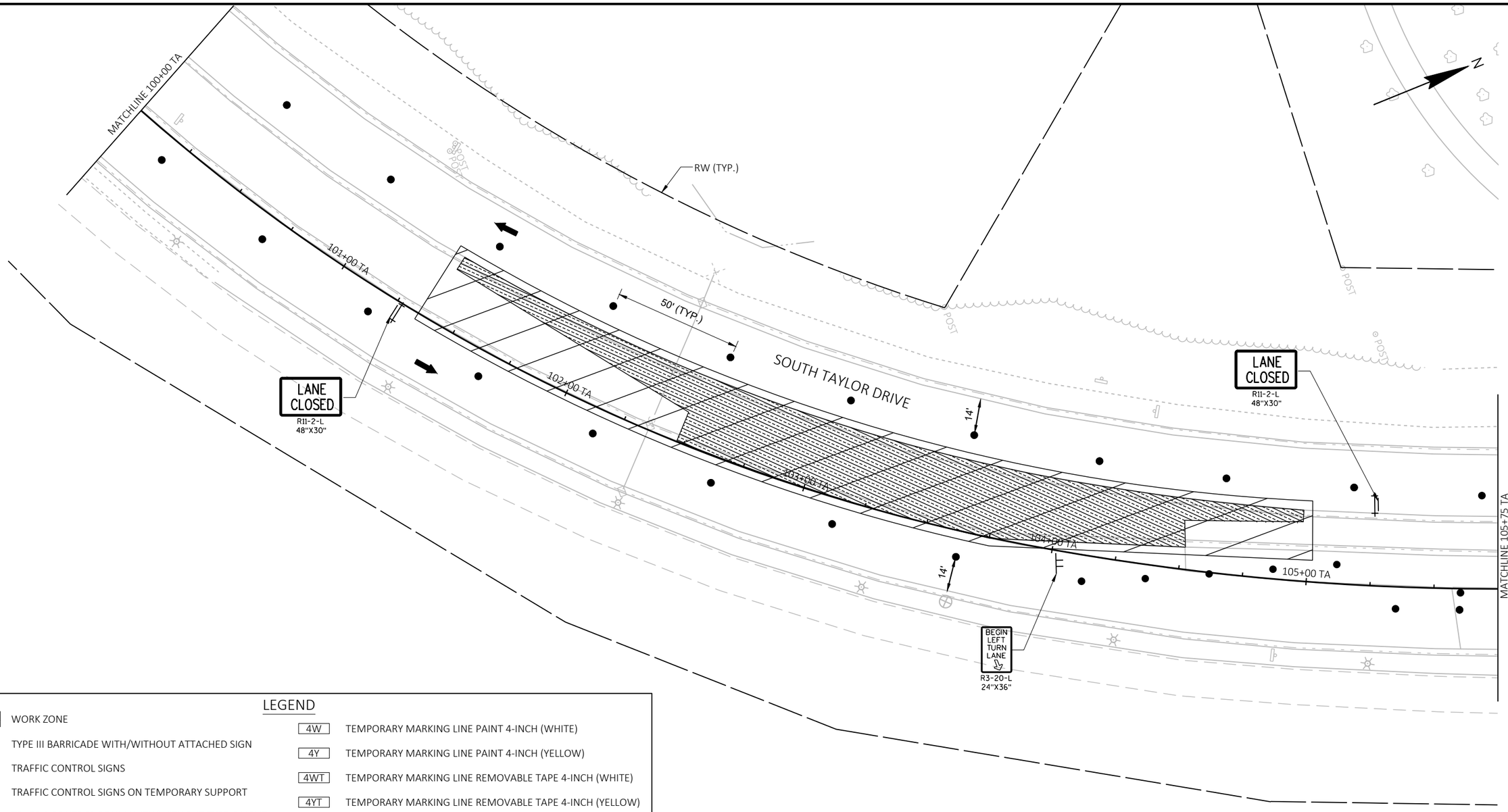
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1	SHEET 115	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1.DWG
LAYOUT NAME - 025109_tc

PLOT DATE : 7/30/2021 10:41 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

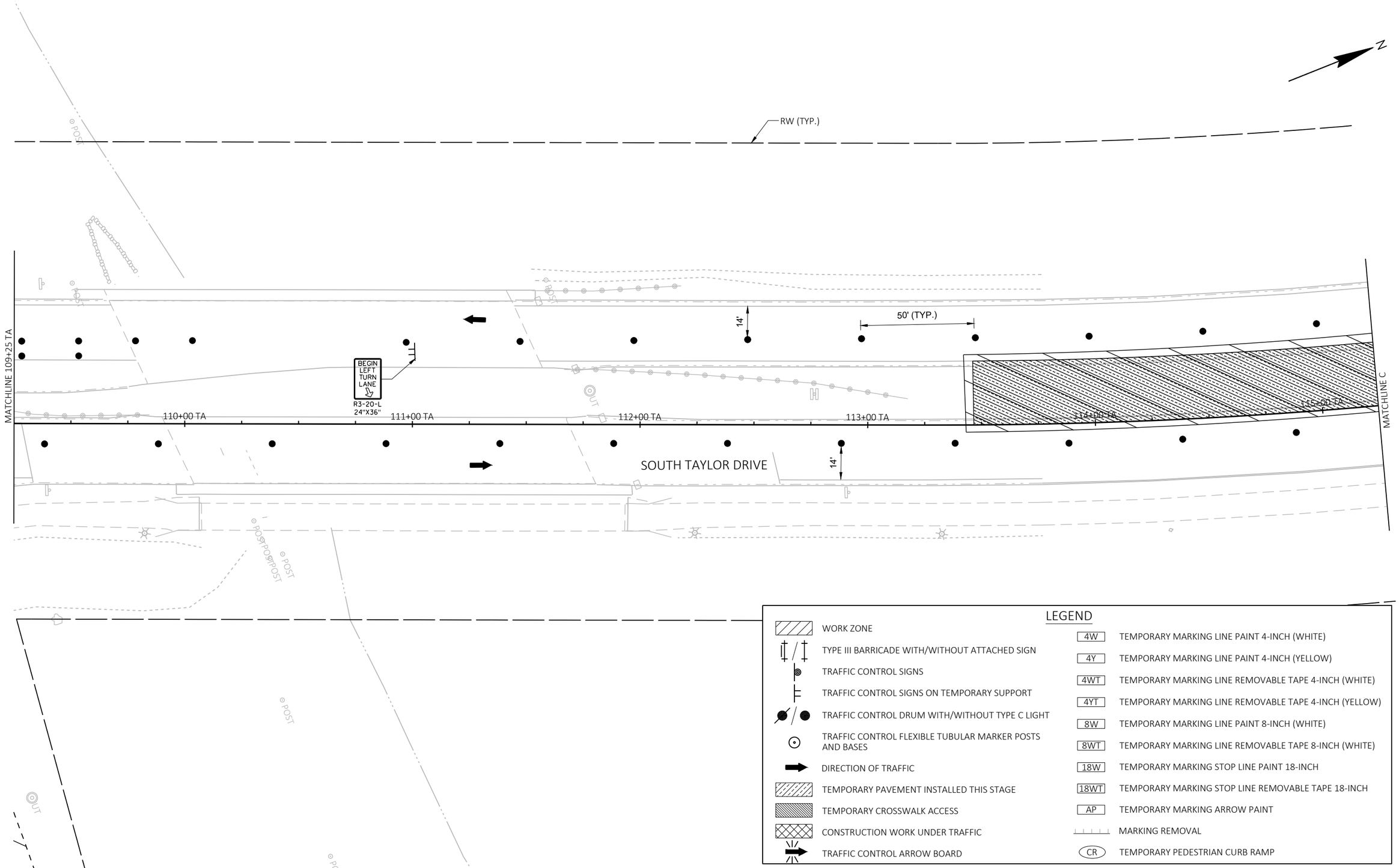


LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1	SHEET 116	E

2



LEGEND

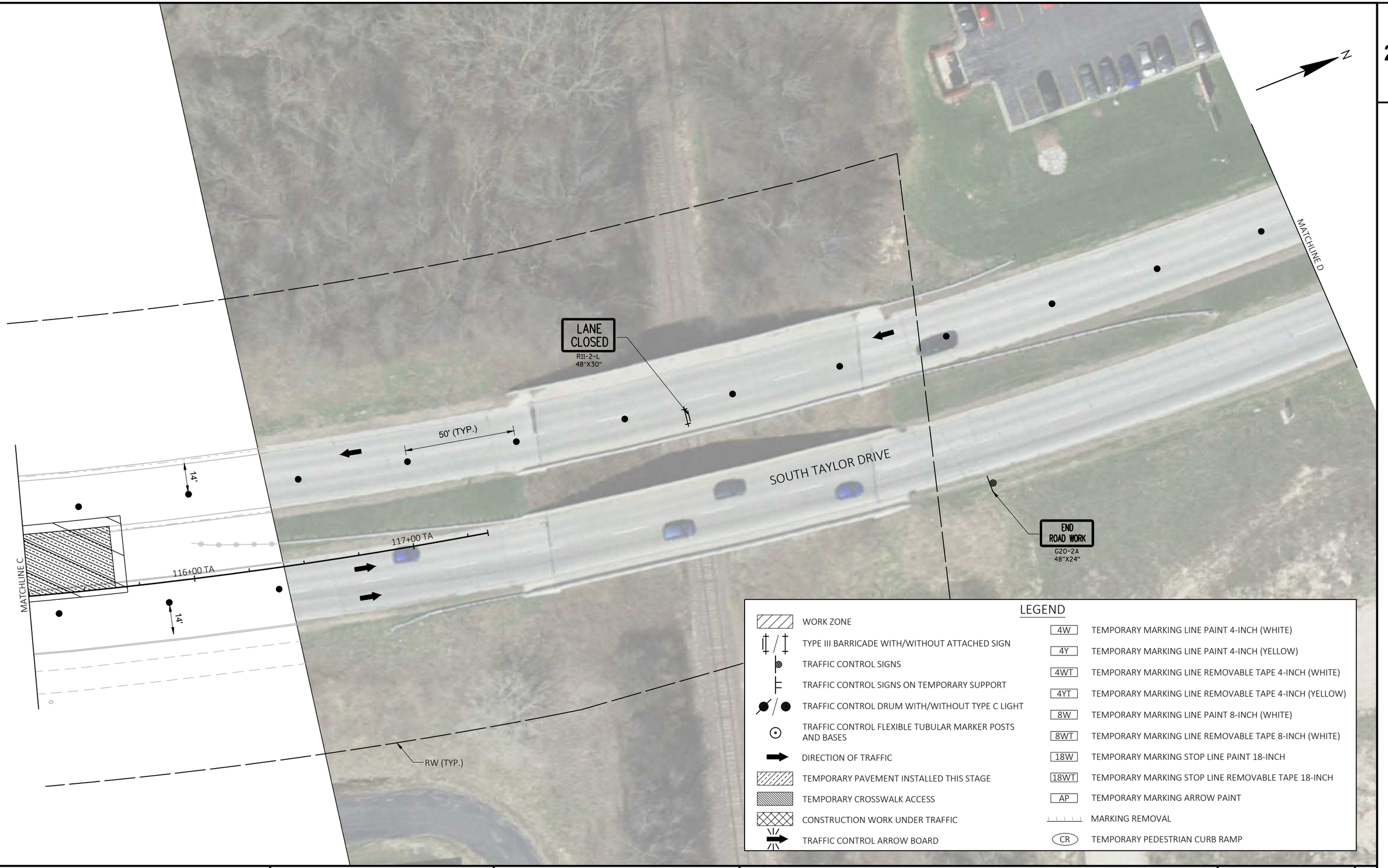
- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1	SHEET 117	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1.DWG
LAYOUT NAME - 025111_tc
PLOT DATE : 7/30/2021 10:58 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1	SHEET 118	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1.DWG
LAYOUT NAME - 025112_tc

PLOT DATE : 7/30/2021 10:41 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

N

W04-2L

LEFT LANE CLOSED AHEAD
W20-55-4

ROAD WORK AHEAD
W20-1A

245' MERGING TAPER

MATCHLINE D

24+46.4
1339.6' LT

4YT

25' (TYP.)

25+51.6
1584.0' LT

350'

350'

350'

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 1	SHEET 119	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1.DWG
LAYOUT NAME - 025113_tc
PLOT DATE : 7/30/2021 10:42 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

** MATCH EXISTING

CTH PP / INDIANA AVENUE

4+74.6
18.0' LT
595.05**

4+81.0
18.2' LT
595.06**

REMOVING CURB &
GUTTER REQ'D

5+50.0
20.1' LT
595.34**

6+00.0
21.5' LT
595.63**

6+51.0
20.7' LT
595.90**

REMOVING ASPHALTIC
SURFACE REQ'D

7+01.8
19.6' LT
596.19**

PROTECT EXISTING INLET
AND STORM SEWER

2.1%

2.0%

0.9%

0.9%

0.9%

0.3%

5+00

6+00

7+00

PROTECT EXISTING INLET
AND STORM SEWER

4+74.3
0.0' RT
594.67**

4+81.0
0.0' LT
594.71**

REMOVING CURB &
GUTTER REQ'D

5+50.0
0.0' RT
595.17**

6+00.0
0.0' T
595.44**

6+50.1
0.0' LT
595.72**

REMOVING ASPHALTIC
SURFACE REQ'D

7+01.4
0.0' RT
596.13**

3-INCHES ASPHALTIC SURFACE TEMPORARY OVER
8-INCHES BASE AGGREGATE DENSE 1-1/4-INCH

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TEMPORARY PAVEMENT LAYOUT - STAGE 1	SHEET 120	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1_TEMP PAVT.DWG
LAYOUT NAME - 025101_tc

PLOT DATE : 7/30/2021 10:42 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

2

N

101+38.9 TA
28.1' LT
596.62**

1.0%

101+38.6 TA
22.4' LT
596.68

102+00.0 TA
28.2' LT
596.85**

102+00.0 TA
18.8' LT
596.94

1.0%

102+00 TA

SALVAGED INLET COVERS,
TEMPORARY COVER PLATES REQ'D

102+47.0 TA
28.2' LT
597.04**

3-INCHES ASPHALTIC SURFACE TEMPORARY OVER
8-INCHES BASE AGGREGATE DENSE 1-1/4-INCH

102+47.1 TA
12.5' LT
597.14

0.6%

102+47.0 TA
0.0' LT
597.22**

SOUTH TAYLOR DRIVE

103+00.0 TA
28.1' LT
597.35**

0.3%

103+00 TA

103+50.0 TA
27.9' LT
597.65**

103+00.0 TA
0.0' RT
597.42**

REMOVING CURB &
GUTTER REQ'D

0.1%

REMOVING CURB &
GUTTER REQ'D

104+00.0 TA
27.8' LT
597.95**

0.5%

103+50.0 TA
0.0' RT
597.68**

104+00.0 TA
19.8' LT
597.99

0.4%

104+48.5 TA
27.6' LT
598.08**

104+00 TA

1.5%

104+00.0 TA
3.2' LT
597.92**

104+97.0 TA
27.8' LT
598.06**

1.5%

104+50.0 TA
19.1' LT
598.21

0.6%

104+51.6 TA
8.7' LT
598.05**

104+97.1 TA
22.7' LT
595.09

** MATCH EXISTING

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TEMPORARY PAVEMENT LAYOUT - STAGE 1	SHEET 121	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1_TEMP PAVT.DWG
LAYOUT NAME - 025110_tc

PLOT DATE : 7/30/2021 10:42 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

2

N

SOUTH TAYLOR DRIVE

MATCHLINE 109+25 TA

113+46.3 TA
28.1' LT
608.41**

114+00.0 TA
28.1' LT
611.01**

114+50.0 TA
28.1' LT
613.54**

115+00.0 TA
28.1' LT
616.03**

SALVAGED INLET COVERS,
INLET COVERS TYPE DW REQ'D

SALVAGED MANHOLE COVERS,
TEMPORARY COVER PLATES REQ'D

115+64.1 TA
27.9' LT
619.19**

0.9%

0.3%

0.4%

1.3%

0.3%

116+00 TA

115+64.1 TA
0.0' LT
619.11**

115+00 TA

115+00.0 TA
0.0' LT
615.67**

114+00 TA

114+50.0 TA
0.0' RT
613.42**

114+00.0 TA
0.0' LT
610.93**

113+46.7 TA
0.0' T
608.17**

SALVAGED INLET COVERS,
INLET COVERS TYPE DW REQ'D

3-INCHES ASPHALTIC SURFACE TEMPORARY OVER
8-INCHES BASE AGGREGATE DENSE 1-1/4-INCH

** MATCH EXISTING

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TEMPORARY PAVEMENT LAYOUT - STAGE 1	SHEET 122	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S1_TEMP PAVT.DWG
LAYOUT NAME - 025111_tc

PLOT DATE : 7/30/2021 10:42 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

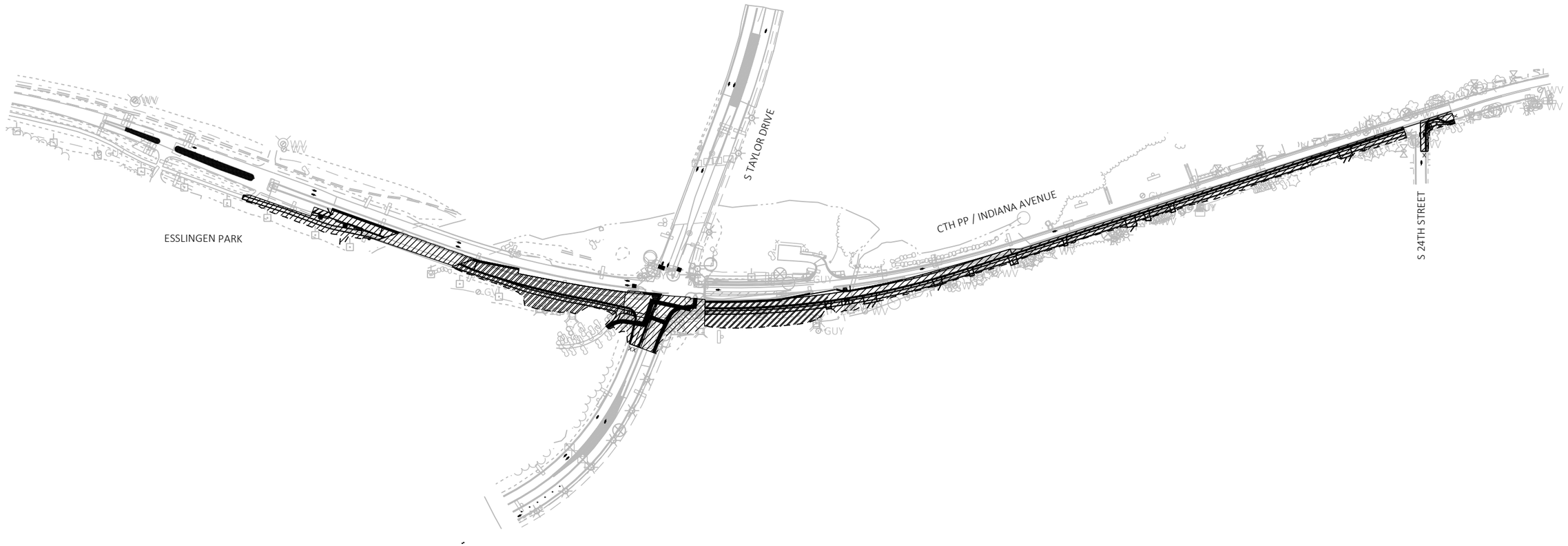
2

N

TRAFFIC CONTROL NOTES

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
2. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
3. 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.
4. SIGNS DESIGNATED AS "W0" ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
5. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
6. PAVEMENT MARKING WHICH MAY CONFLICT WITH TRAFFIC CONTROL "IN-USE" SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
7. TEMPORARY MARKING ON EXISTING OR TEMPORARY PAVEMENT SHALL BE TEMPORARY MARKING PAINT.
8. TEMPORARY MARKING ON NEW PAVEMENT SHALL BE TEMPORARY MARKING REMOVABLE TAPE.

NOTE: ALL TRAFFIC CONTROL DEVICES AND TEMPORARY MARKING REQUIRED FOR STAGE 3 MUST BE IN PLACE UPON THE COMPLETION OF STAGE 2 AND PRIOR TO SWITCHING TRAFFIC TO STAGE 3.

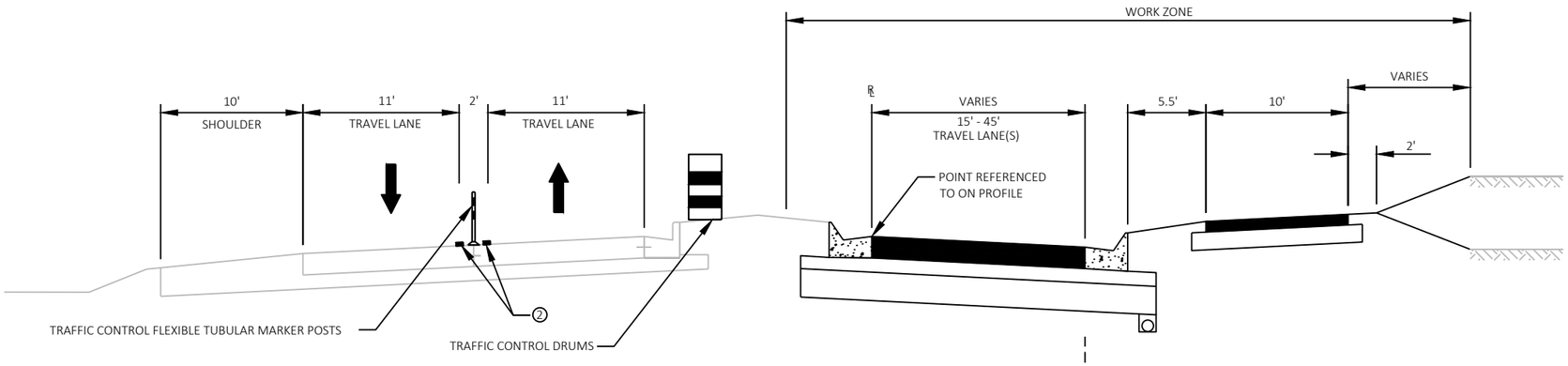


PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2 OVERVIEW	SHEET 123	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2_OV.DWG
LAYOUT NAME - 025100_ov2

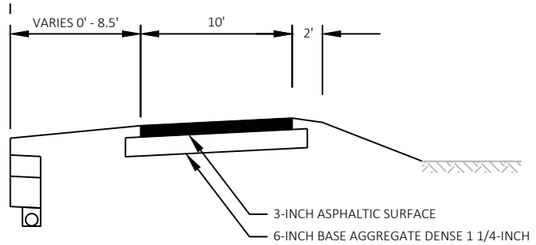
PLOT DATE : 7/30/2021 10:42 AM PLOT BY : ANDERSON, ERIC PLOT NAME :

2



STAGING TYPICAL SECTION
INDIANA AVE
STAGE 2

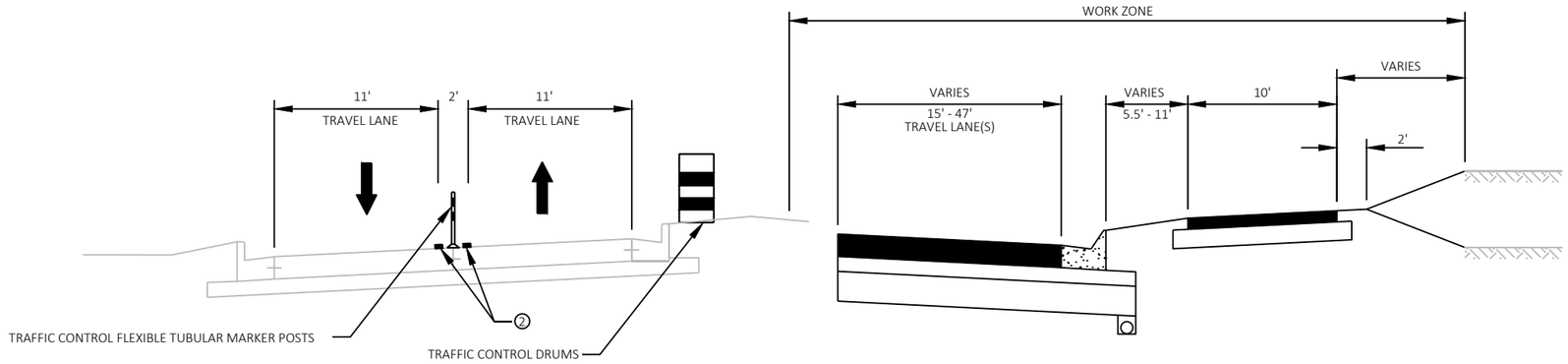
STA. 9+43.27 TO STA. 11+42.17
STA. 13+70.37 TO STA. 15+10.00



STA. 9+43.27 TO STA. 11+42.17
STA. 13+70.37 TO STA. 15+10.00

① TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
② TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
③ TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
④ TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

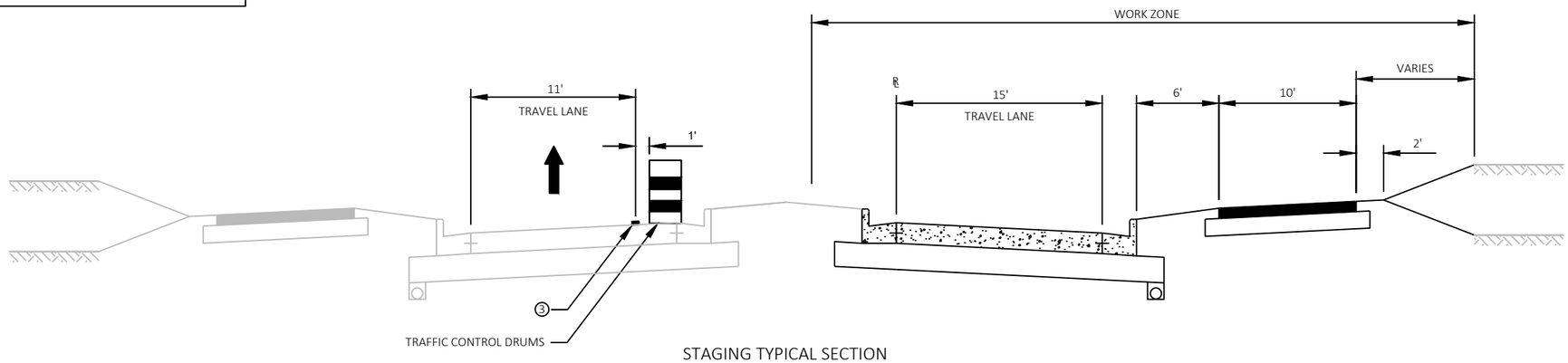
2



STAGING TYPICAL SECTION
INDIANA AVE
STAGE 2

STA. 15+10.10 TO STA. 20+54.24

1. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

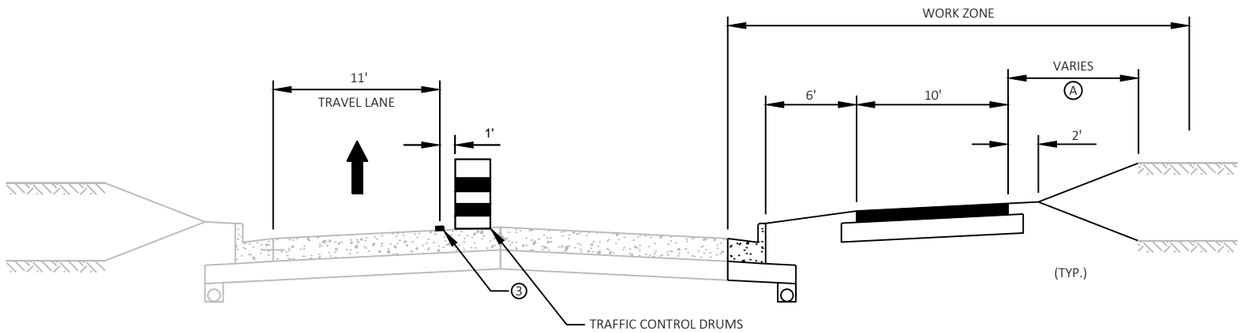


STAGING TYPICAL SECTION
INDIANA AVE
STAGE 2

STA. 20+54.24 TO STA. 26+35.02

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - TYPICAL SECTIONS	SHEET 125	E

2



STAGING TYPICAL SECTION
INDIANA AVE
STAGE 2

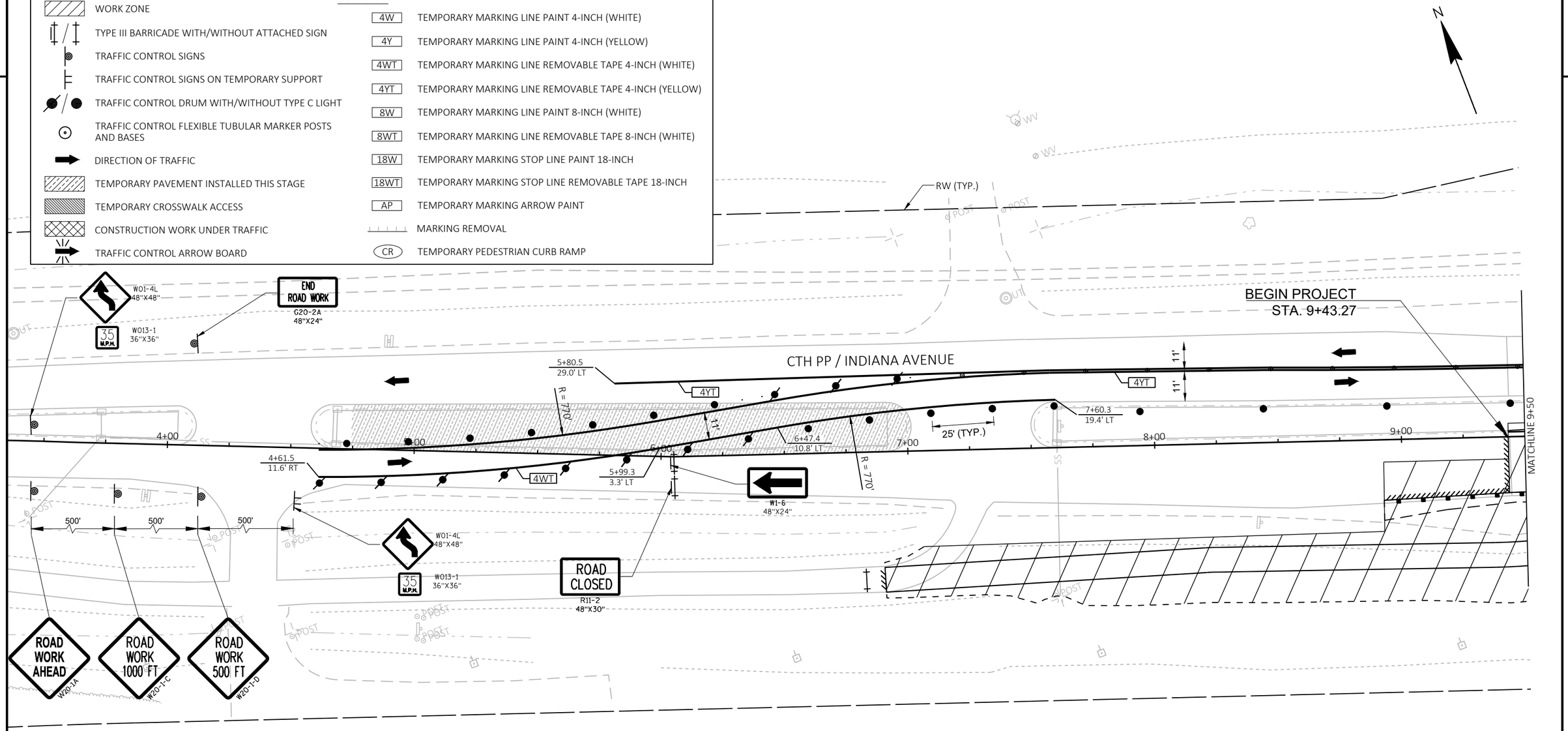
STA. 26+35.02 TO STA. 42+77.71

1. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

2

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP



FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER UNDIVIDED ROAD OPEN TO TRAFFIC".

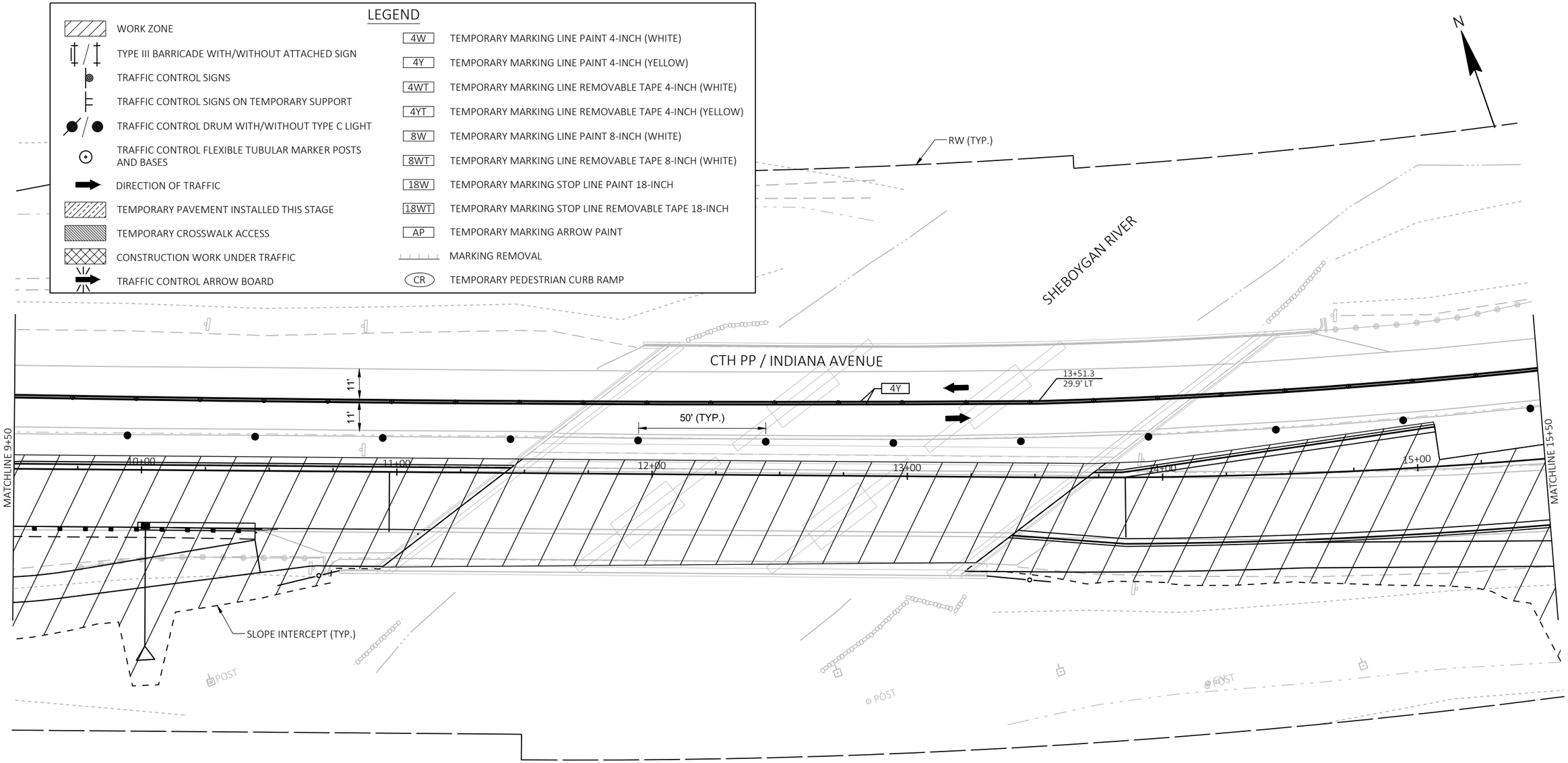
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2	SHEET 127	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2.DWG
LAYOUT NAME - 025101_tc
PLOT DATE : 7/30/2021 10:44 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2	SHEET 128	E

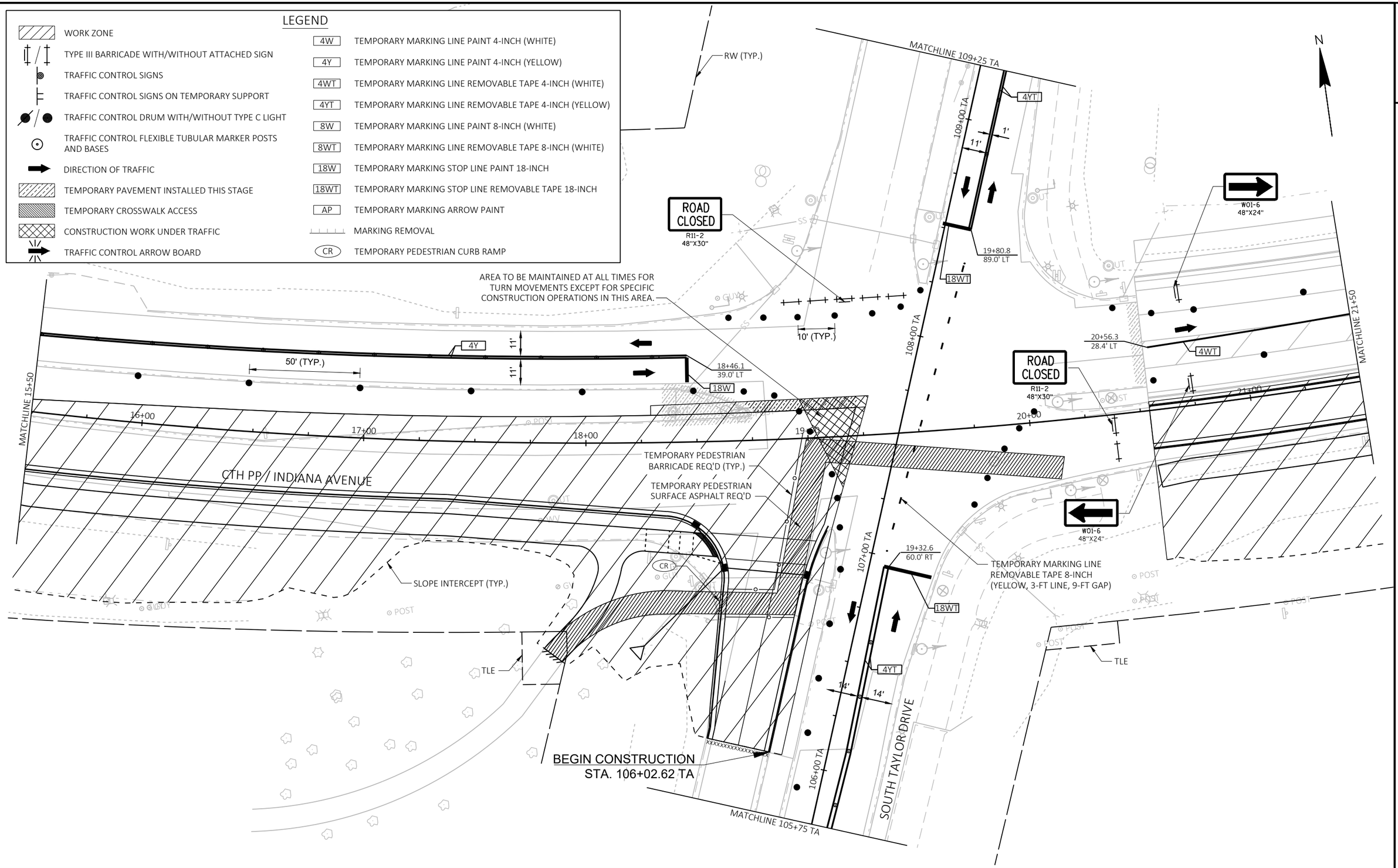
FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2.DWG
LAYOUT NAME - 025102_tc

PLOT DATE : 7/30/2021 10:44 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

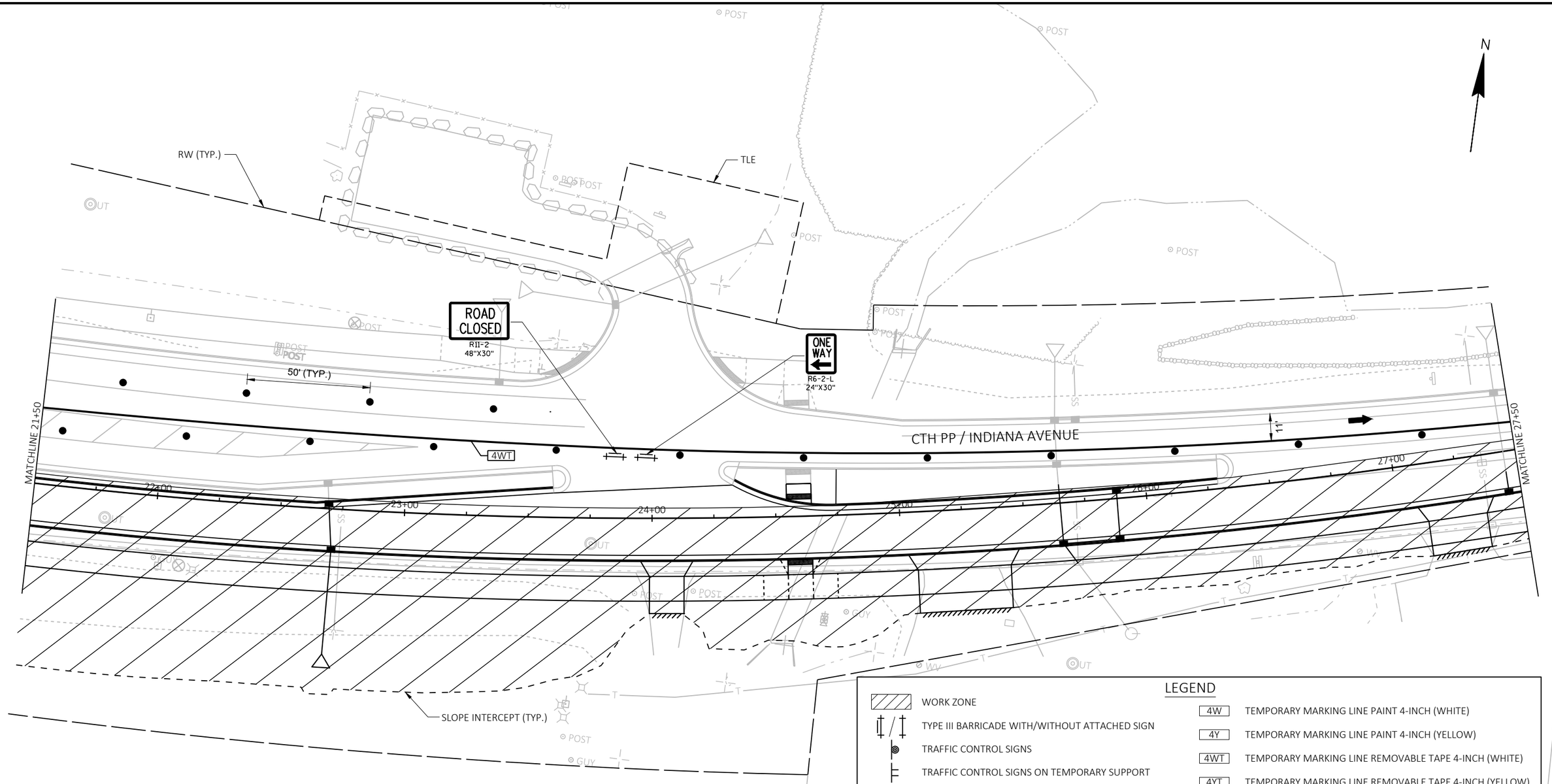
- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2	SHEET 129	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2.DWG
LAYOUT NAME - 025103_tc
PLOT DATE : 7/30/2021 10:44 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



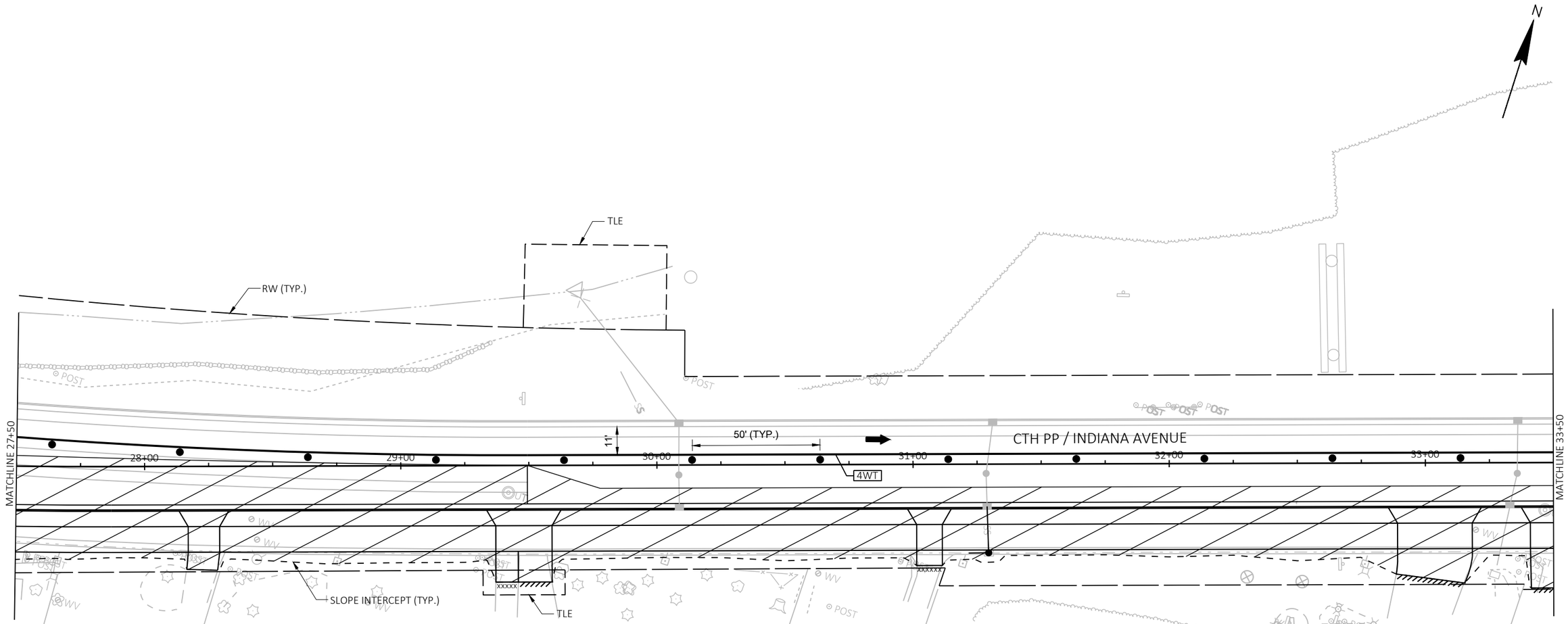
LEGEND

WORK ZONE	4W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2	SHEET 130	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2.DWG
LAYOUT NAME - 025104_tc
PLOT DATE : 7/30/2021 10:44 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

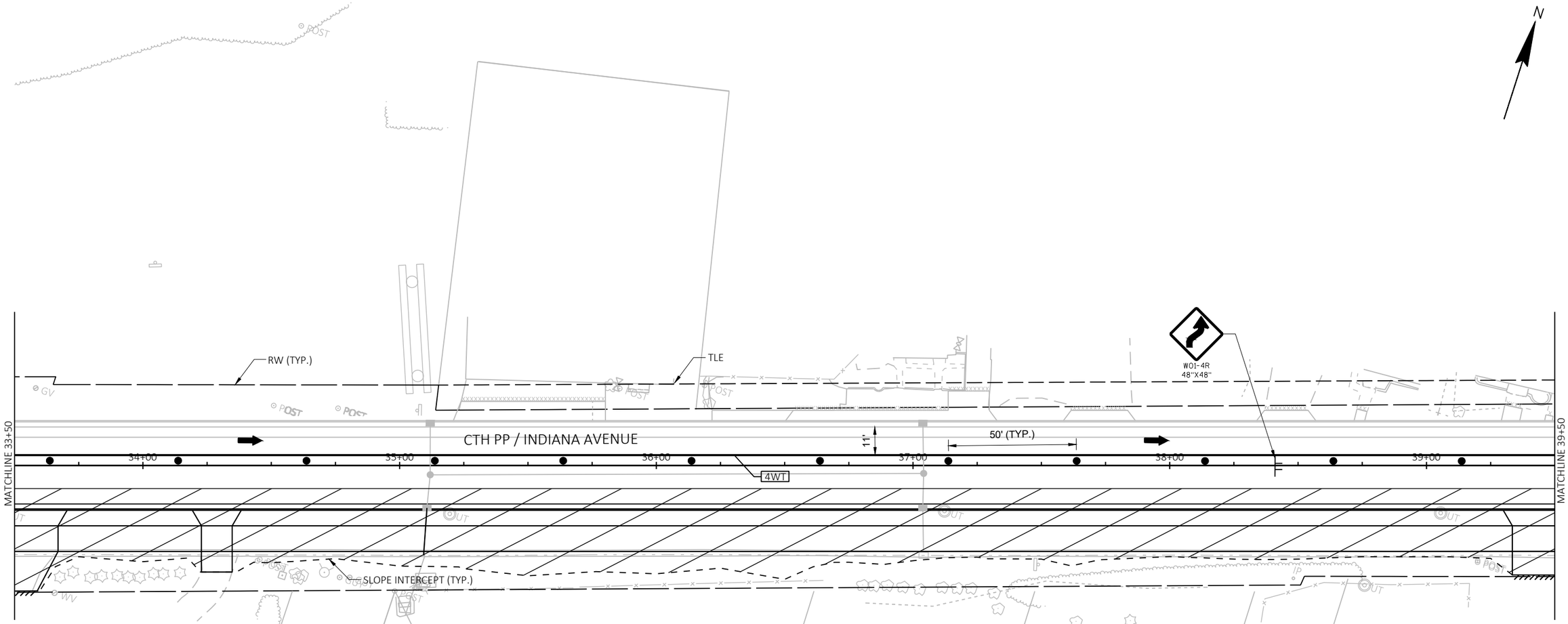
WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2	SHEET 131	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2.DWG
LAYOUT NAME - 025105_tc
PLOT DATE : 9/27/2021 9:44 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2



LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2	SHEET 132	E

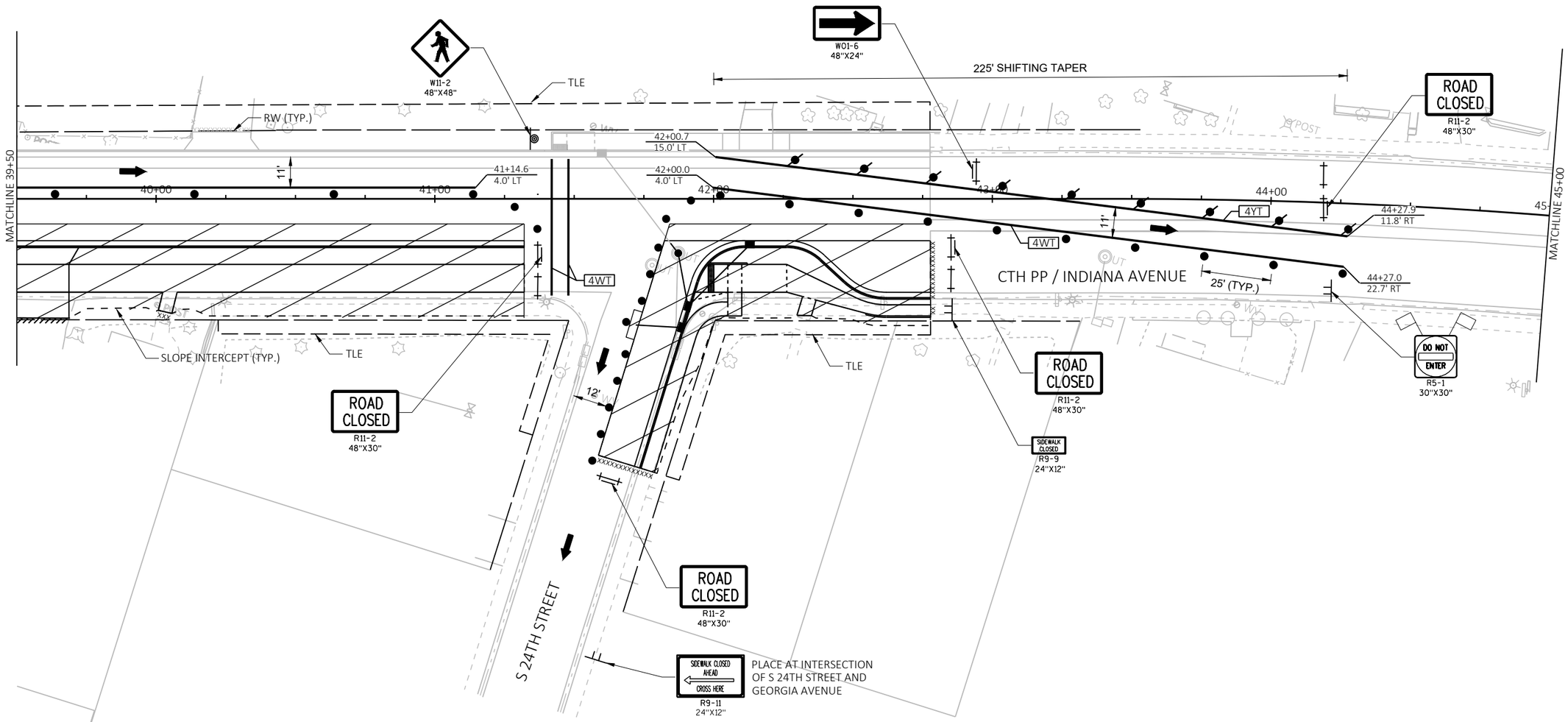
FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2.DWG
LAYOUT NAME - 025106_tc
PLOT DATE : 9/27/2021 9:44 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2	SHEET 133	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2.DWG
LAYOUT NAME - 025107_tc

PLOT DATE : 9/28/2021 8:31 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

N

DO NOT ENTER
R5-1
30"X30"

ONE WAY
R6-2-R
24"X30"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

ROAD CLOSED 500 FT
W20-3-D

ROAD CLOSED 1000 FT
W20-3-C

ROAD CLOSED AHEAD
W20-3-A

500'

500'

500'

CR

MATCHLINE 45+00

00

46+00

47+00

48+00

49+00

CTH PP / INDIANA AVENUE

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
24"X12"

W1-6
48"X24"

S 22ND STREET

S 23RD STREET

R3-2
24"X24"

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2	SHEET 134	E

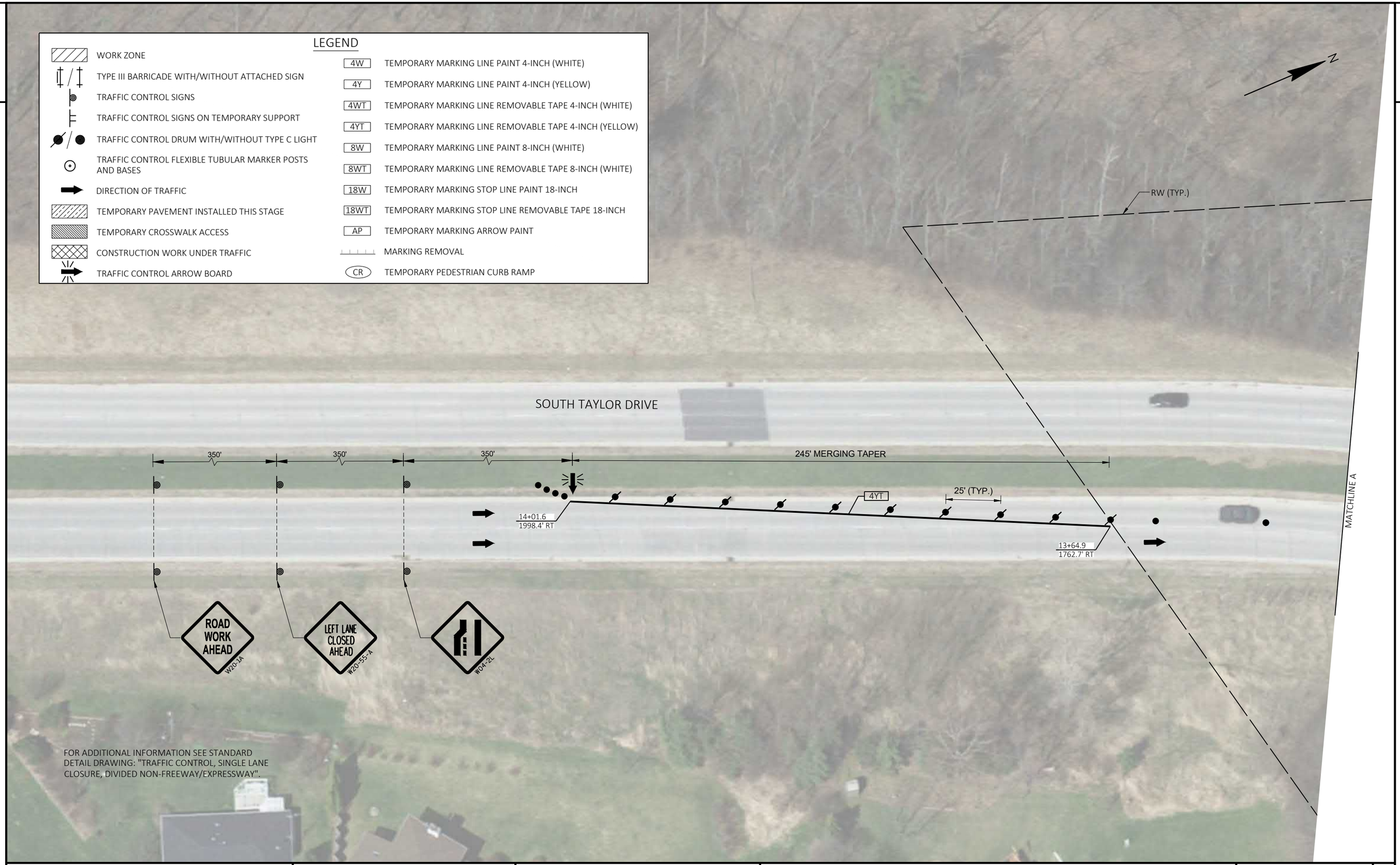
FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2.DWG
LAYOUT NAME - 025114_tc
PLOT DATE : 7/30/2021 10:44 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP



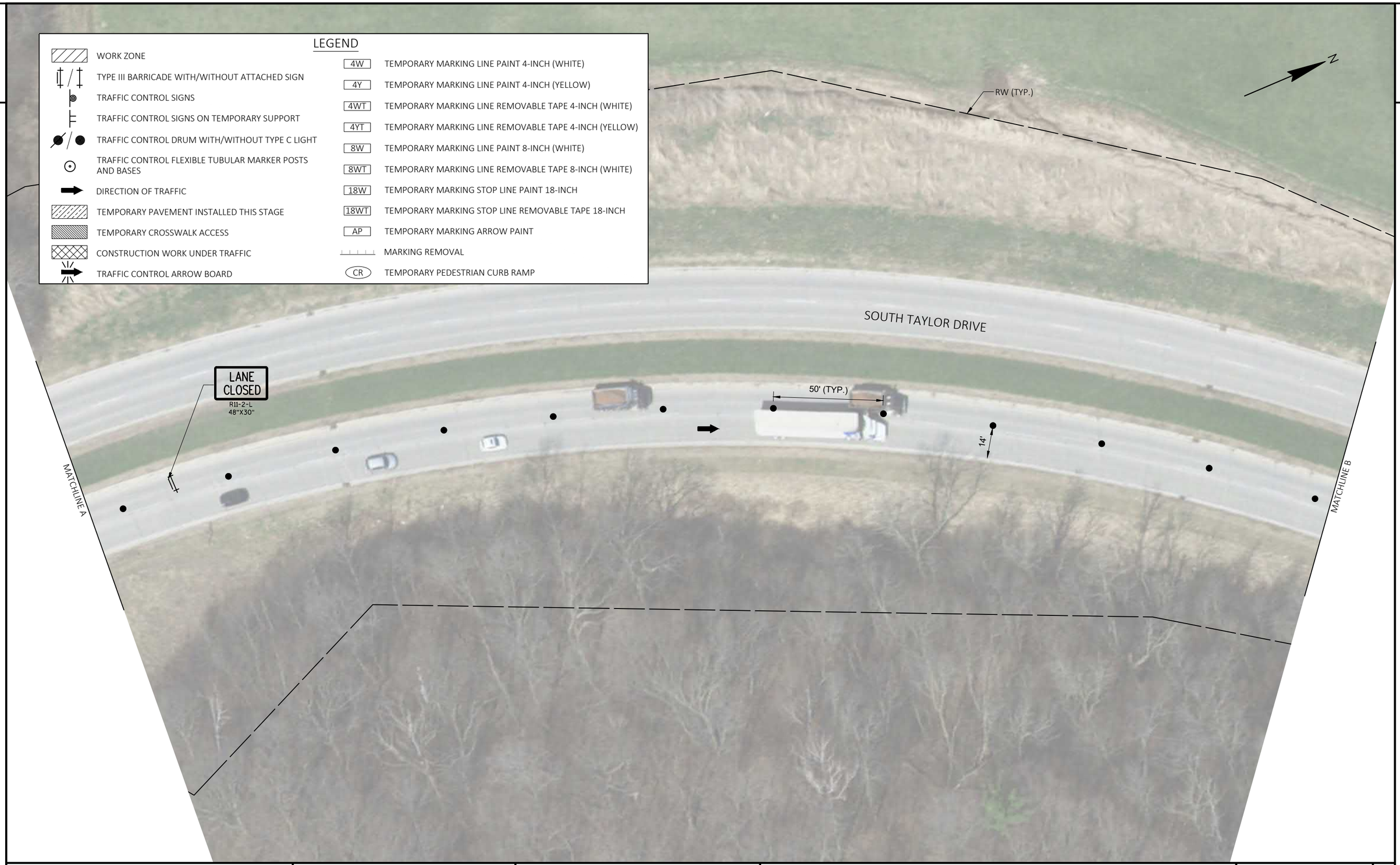
FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2	SHEET 135	E

2

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP



2

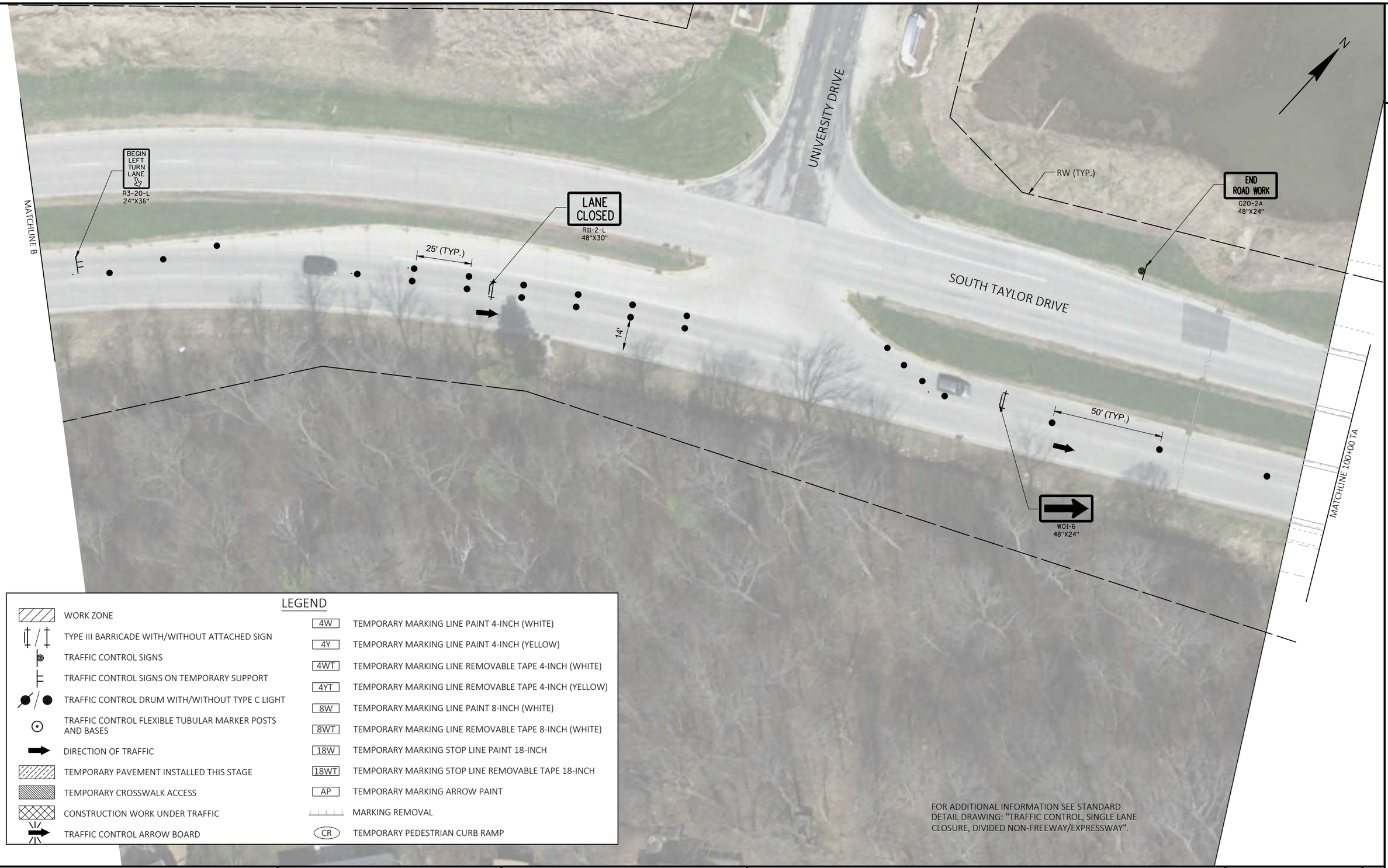
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2	SHEET 136	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2.DWG
LAYOUT NAME - 025116_tc

PLOT DATE : 7/30/2021 10:45 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



2

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

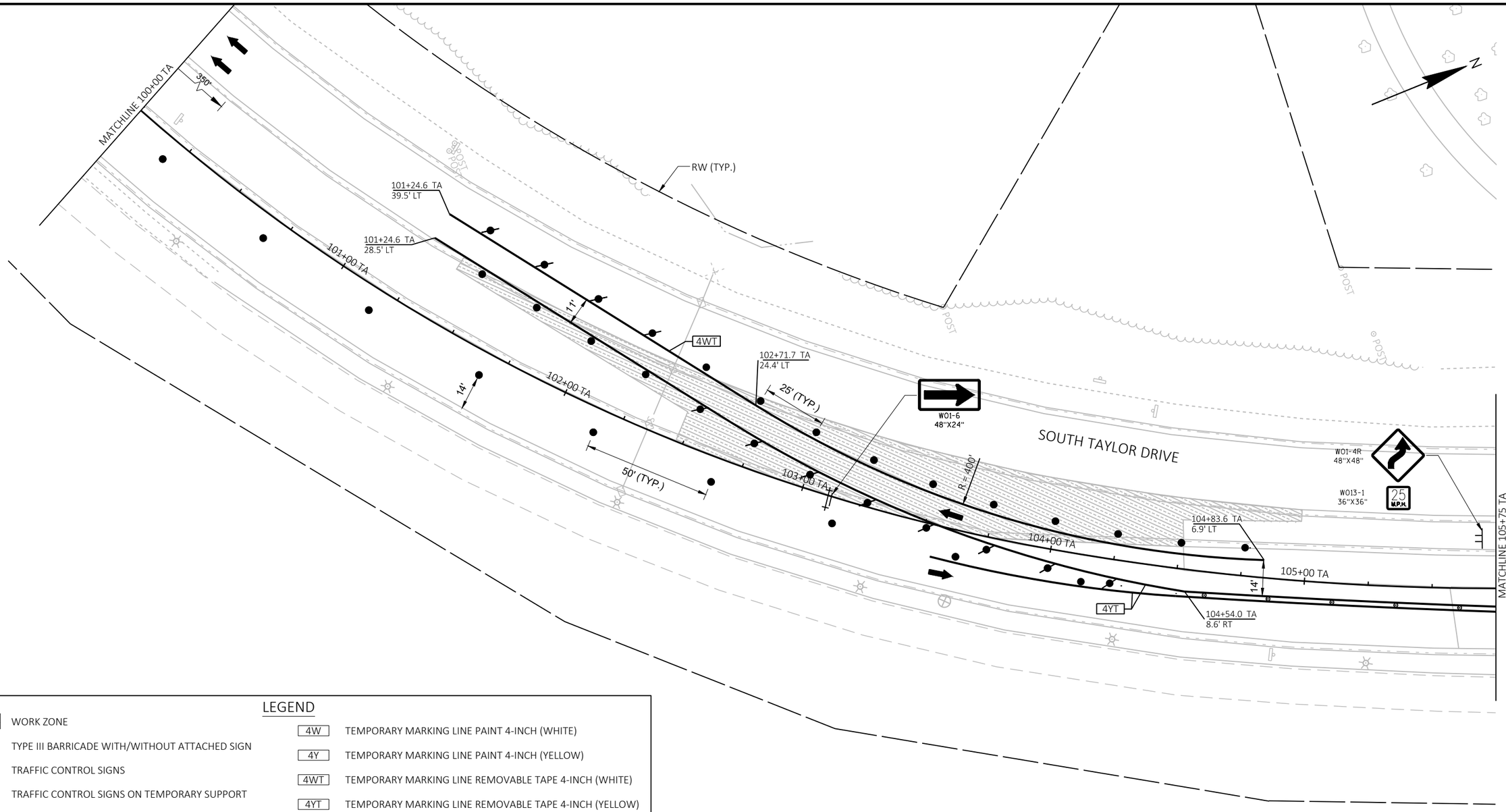
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2	SHEET 137	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2.DWG
LAYOUT NAME - 025112_tc

PLOT DATE : 7/30/2021 10:45 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



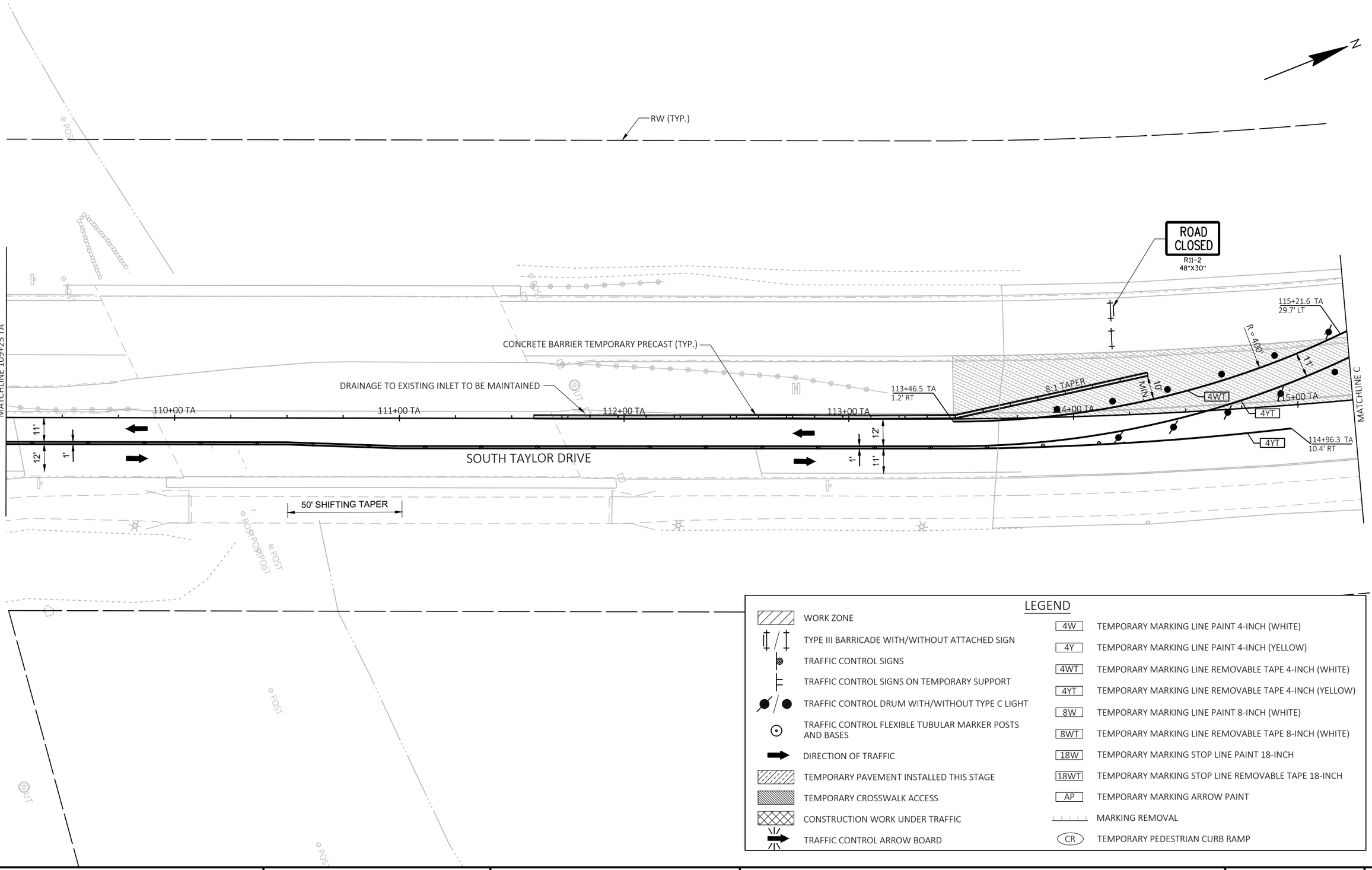
LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2	SHEET 138	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2.DWG
LAYOUT NAME - 025108_tc
PLOT DATE : 7/30/2021 10:45 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2	SHEET 139	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2.DWG
LAYOUT NAME - 025109_tc
PLOT DATE : 7/30/2021 11:00 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

500' BUFFER

MATCHLINE D

50' (TYP.)

W01-4L
48"X48"

W013-1
36"X36"

25
M.P.H.

14'

LANE
CLOSED
R11-2-L
48"X30"

END
ROAD WORK
G20-2A
48"X24"

W01-6
48"X24"

116+43.1 TA
51.9' LT

4WT

116+43.2 TA
40.9' LT

11'

25' (TYP.)

R=100'

117+00 TA

SOUTH TAYLOR DRIVE

115+25.5 TA
19.4' LT

116+00 TA

MATCHLINE C

RW (TYP.)

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2	SHEET 140	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2.DWG
LAYOUT NAME - 025110_tc

PLOT DATE : 7/30/2021 10:45 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

N

W04-2L

LEFT LANE CLOSED AHEAD
W20-55-4

ROAD WORK AHEAD
W20-1A

245' MERGING TAPER

MATCHLINE D

24+46.4
1339.6' LT

25+51.6
1584.0' LT

25' (TYP.)

4YT

350'

350'

350'

SOUTH TAYLOR DRIVE

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

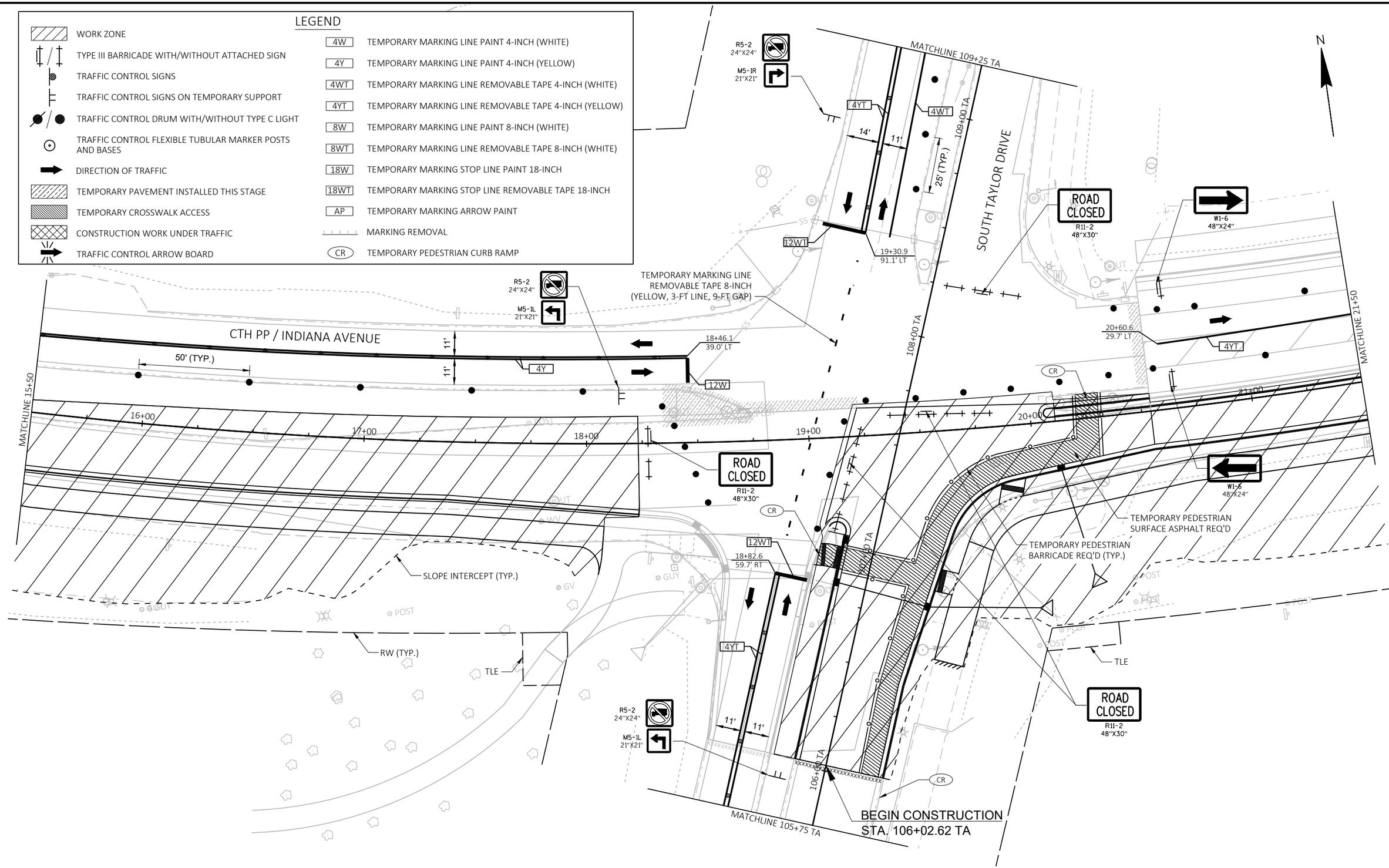
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2	SHEET 141	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2.DWG
LAYOUT NAME - 025111_tc
PLOT DATE : 7/30/2021 10:45 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

WORK ZONE	4W TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR TEMPORARY PEDESTRIAN CURB RAMP



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2A	SHEET 142 E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2A.DWG
LAYOUT NAME - 025101_tc
PLOT DATE : 7/30/2021 10:45 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

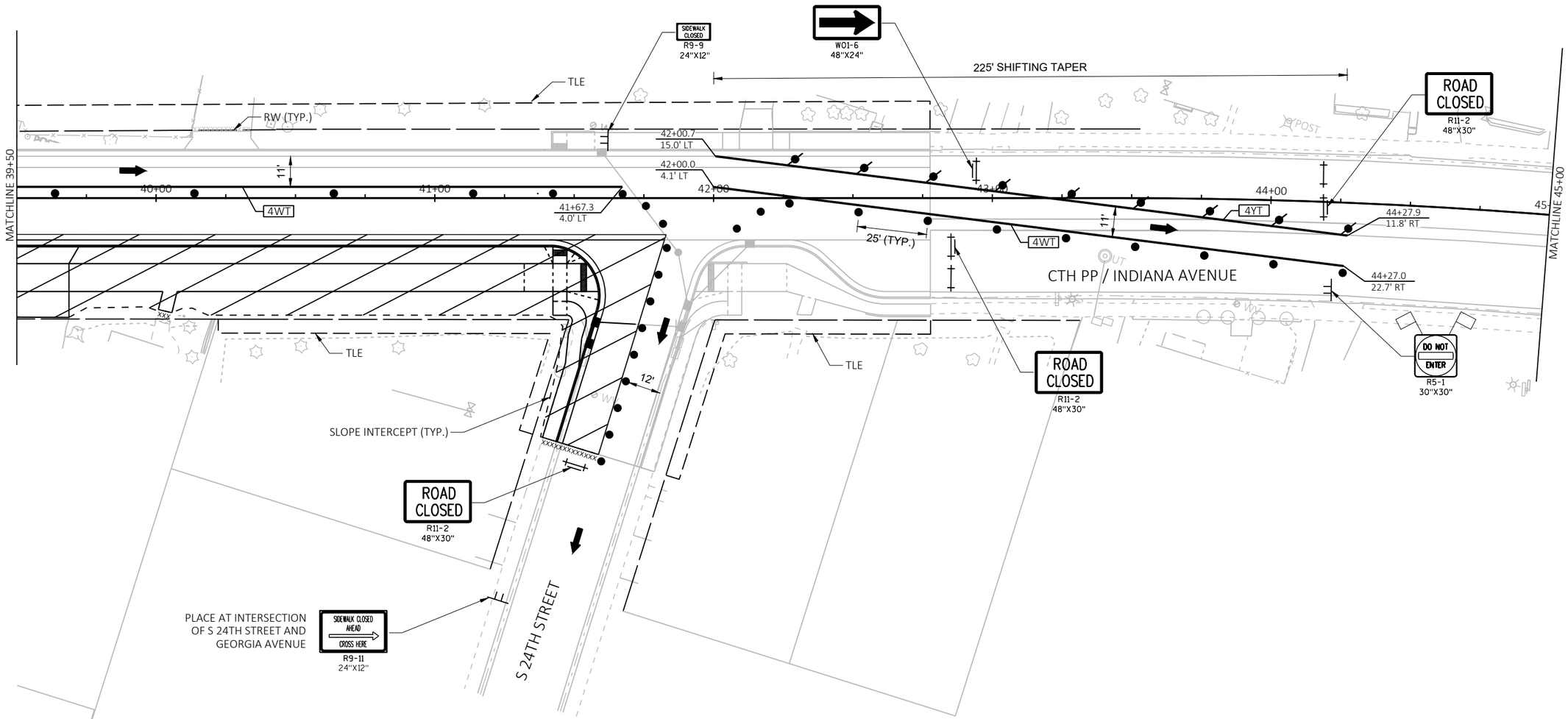
LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

N

2



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2A	SHEET 143	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2A.DWG
LAYOUT NAME - 025108_tc

PLOT DATE : 9/28/2021 8:32 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

N

DO NOT ENTER
R5-1
30"X30"

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
24"X12"

ONE WAY
R6-2-R
24"X30"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

ROAD CLOSED 500 FT
W20-3-D

ROAD CLOSED 1000 FT
W20-3-C

ROAD CLOSED AHEAD
W20-3-A

500'
500'
500'

MATCHLINE 45+00

46+00
47+00
48+00
49+00

CTH PP / INDIANA AVENUE

W1-6
48"X24"

S 23RD STREET

R3-2
24"X24"

S 22ND STREET

CR

OUT

WW

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2A	SHEET 144	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2A.DWG
LAYOUT NAME - 025114_tc
PLOT DATE : 7/30/2021 10:46 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

N

RW (TYP.)

SOUTH TAYLOR DRIVE

350' 350' 350' 245' MERGING TAPER

25' (TYP.)

14+01.6
1998.4' RT

4YT

13+64.9
1762.7' RT

MATCHLINE A

ROAD WORK AHEAD W20-1A

LEFT LANE CLOSED AHEAD W20-5S-A

W04-2L

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

2

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2A	SHEET 145	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2A.DWG
LAYOUT NAME - 025115_tc

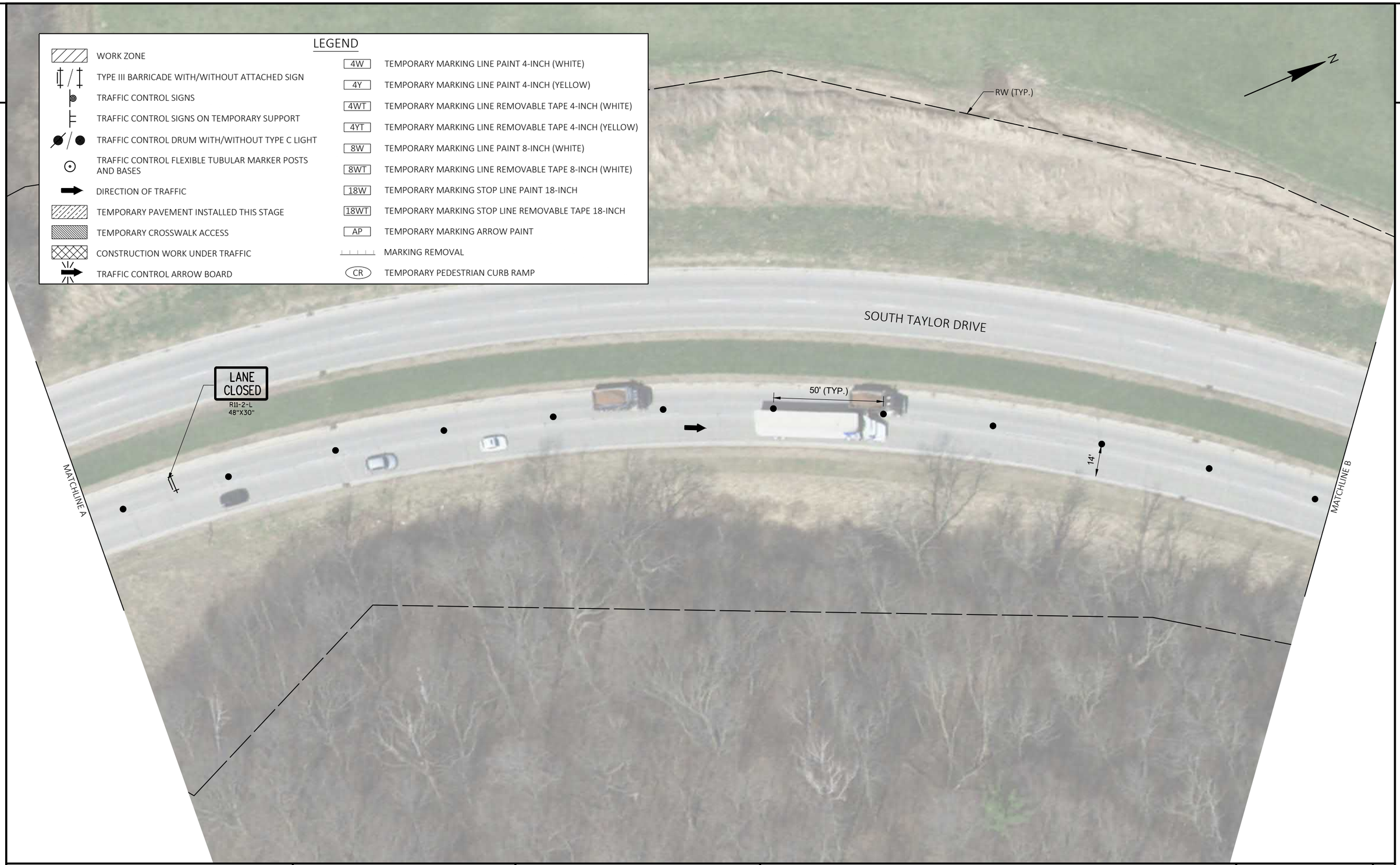
PLOT DATE : 7/30/2021 10:46 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP



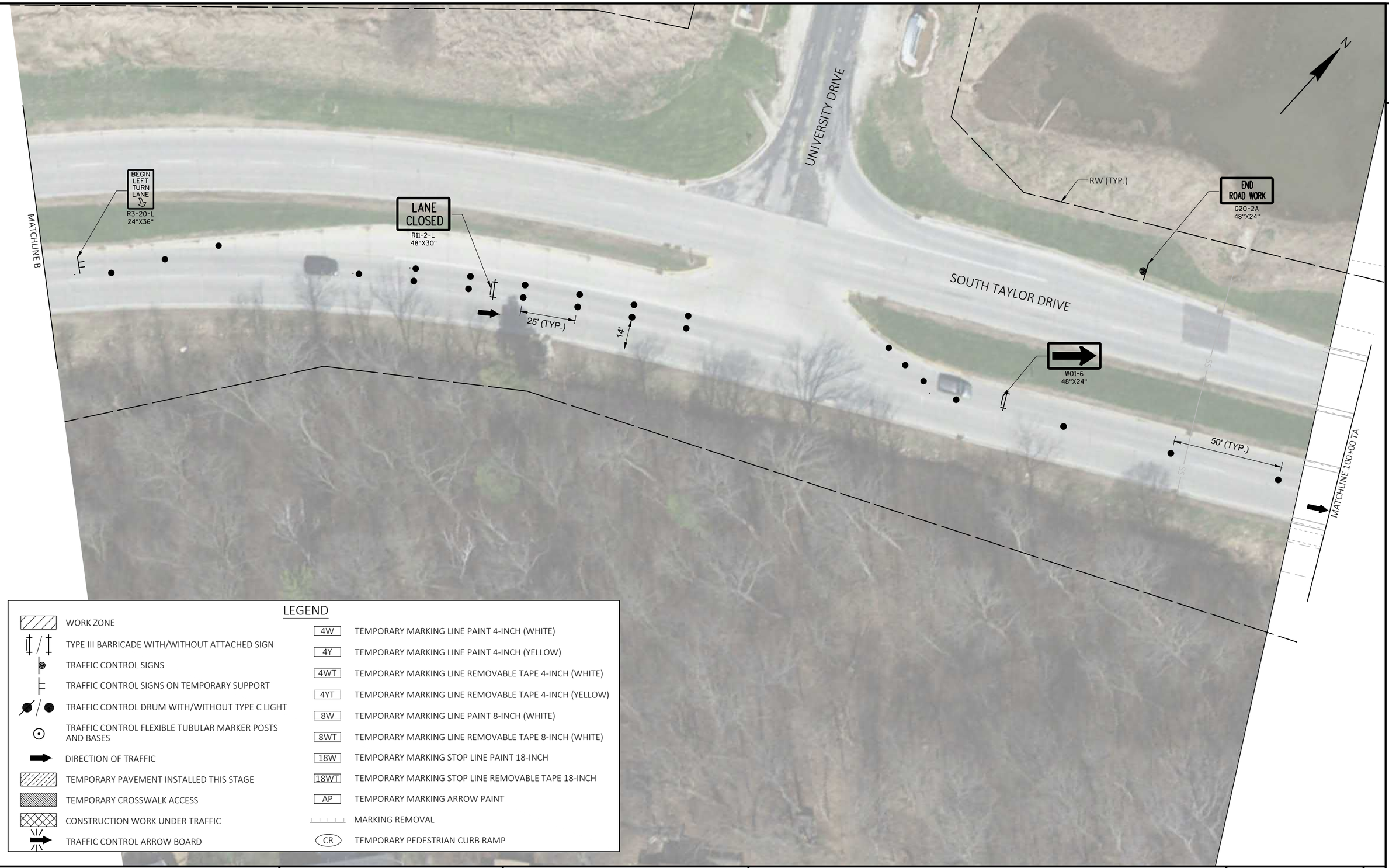
2

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2A	SHEET 146 E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2A.DWG
LAYOUT NAME - 025102_tc
PLOT DATE : 7/30/2021 10:46 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2



LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

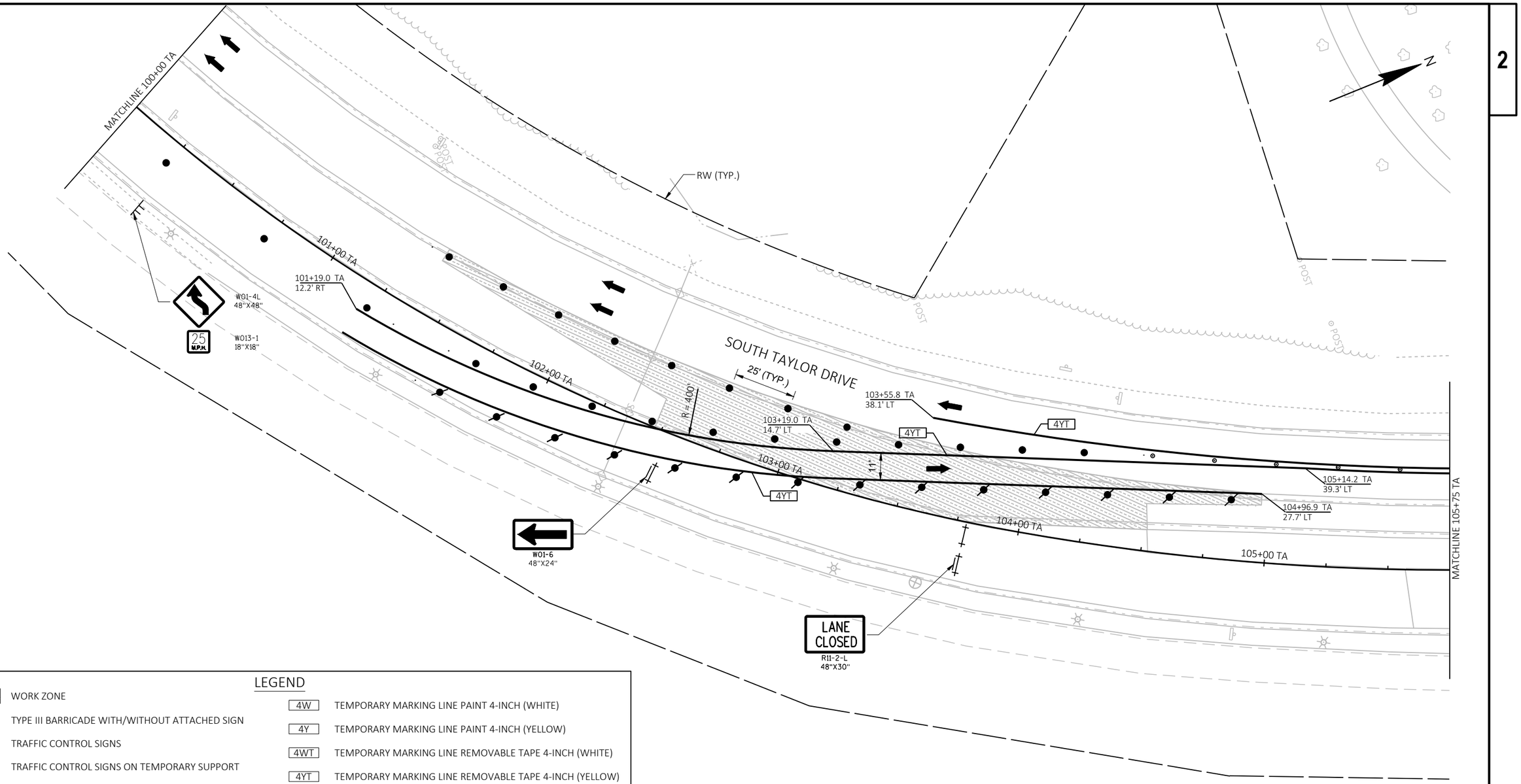
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2A	SHEET 147	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2A.DWG
LAYOUT NAME - 025103_tc

PLOT DATE : 7/30/2021 10:46 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2A	SHEET 148	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2A.DWG
LAYOUT NAME - 025104_tc
PLOT DATE : 7/30/2021 10:46 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

RW (TYP.)

MATCHLINE 109+25 TA

11'
11'
10'
MIN.
4WT
110+63.9 TA
28.7' LT
CONCRETE BARRIER TEMPORARY PRECAST (TYP.)
2'
11'
11'
4YT
110+00 TA
111+00 TA
112+00 TA
113+00 TA
WO1-4R
48"X48"
WO13-1
36"X36"
25
M.P.H.
WO1-6
48"X24"
113+53.3 TA
28.3' LT
4WT
114+00 TA
R = 400'
114+47.4 TA
26.5' LT
11'
115+05.0 TA
9.7' LT
115+00 TA
114+44.4 TA
15.9' LT
115+01.7 TA
0.8' RT
MATCHLINE C

SOUTH TAYLOR DRIVE

POST
OUT

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2A	SHEET 149	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2A.DWG
LAYOUT NAME - 025105_tc

PLOT DATE : 7/30/2021 10:57 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

MATCHLINE D

LANE CLOSED
R11-2-L
48"X30"

14'

50' (TYP.)

SOUTH TAYLOR DRIVE

END ROAD WORK
G20-2A
48"X24"

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

MATCHLINE C

R = 400'

116+00 TA

117+00 TA

116+40.2 TA
11.9' RT

116+40.0 TA
22.9' RT

4YT

4WT

25' (TYP.)

RW (TYP.)

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2A	SHEET 150	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2A.DWG
LAYOUT NAME - 025106_tc

PLOT DATE : 7/30/2021 10:47 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

N

W04-2L

LEFT LANE CLOSED AHEAD
W20-55-4

ROAD WORK AHEAD
W20-1A

245' MERGING TAPER

MATCHLINE D

24+46.4
1339.6' LT

4YT

25' (TYP.)

25+51.6
1584.0' LT

350'

350'

350'

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 2A	SHEET 151	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S2A.DWG
LAYOUT NAME - 025107_tc
PLOT DATE : 7/30/2021 10:47 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

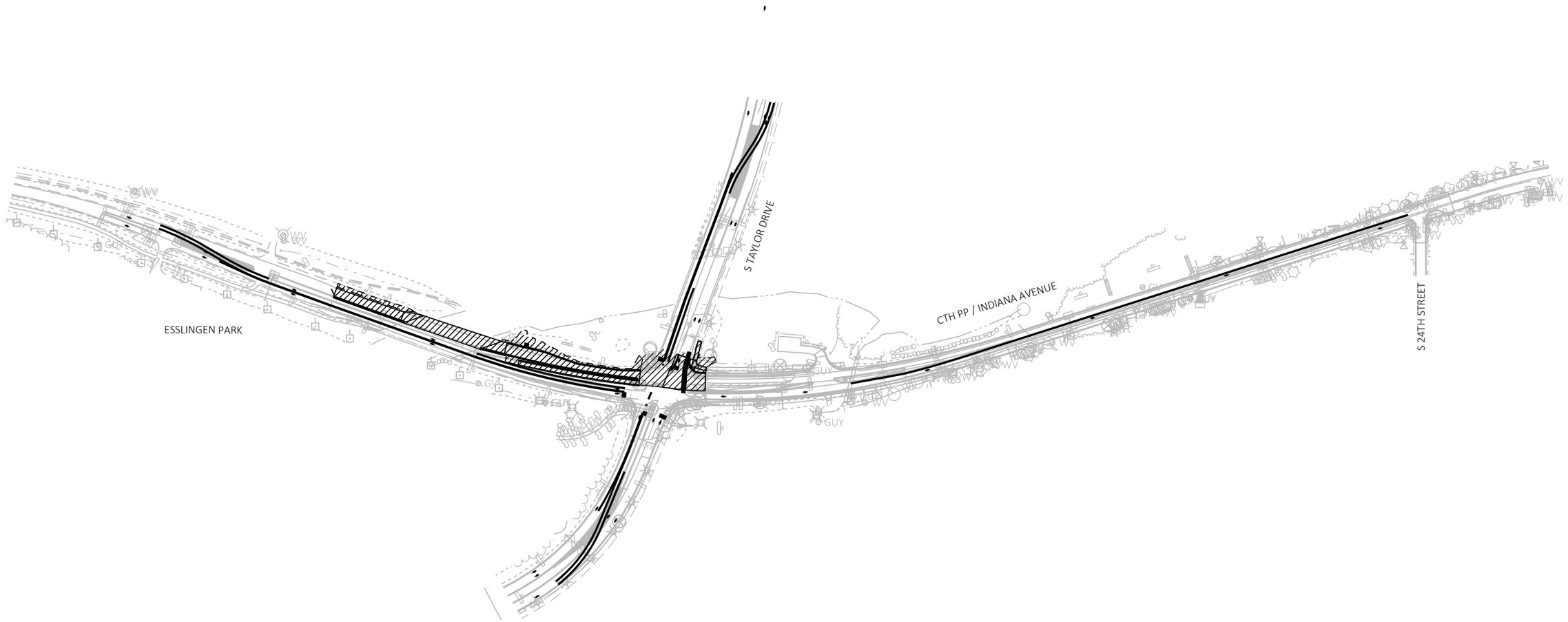
2

N

TRAFFIC CONTROL NOTES

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
2. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
3. 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.
4. SIGNS DESIGNATED AS "W0" ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
5. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
6. PAVEMENT MARKING WHICH MAY CONFLICT WITH TRAFFIC CONTROL "IN-USE" SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
7. TEMPORARY MARKING ON EXISTING OR TEMPORARY PAVEMENT SHALL BE TEMPORARY MARKING PAINT.
8. TEMPORARY MARKING ON NEW PAVEMENT SHALL BE TEMPORARY MARKING REMOVABLE TAPE.

NOTE: ALL TRAFFIC CONTROL DEVICES AND TEMPORARY MARKING REQUIRED FOR STAGE 4 MUST BE IN PLACE UPON THE COMPLETION OF STAGE 3 AND PRIOR TO SWITCHING TRAFFIC TO STAGE 4.

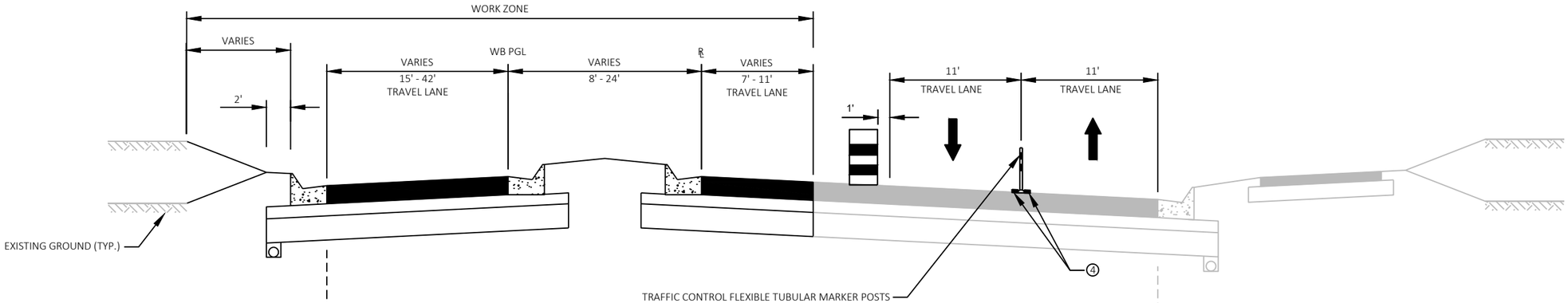


PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3 OVERVIEW	SHEET 152	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3_OV.DWG
LAYOUT NAME - 025100_ov3

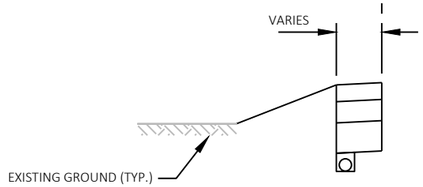
PLOT DATE : 7/30/2021 10:47 AM PLOT BY : ANDERSON, ERIC PLOT NAME :

2



STAGING TYPICAL SECTION
INDIANA AVE
STAGE 3

STA. 9+43.27 TO STA. 11+42.17
STA. 13+70.37 TO STA. 20+54.24



STA. 9+43.27 TO STA. 11+42.17
STA. 13+70.37 TO STA. 15+97.03



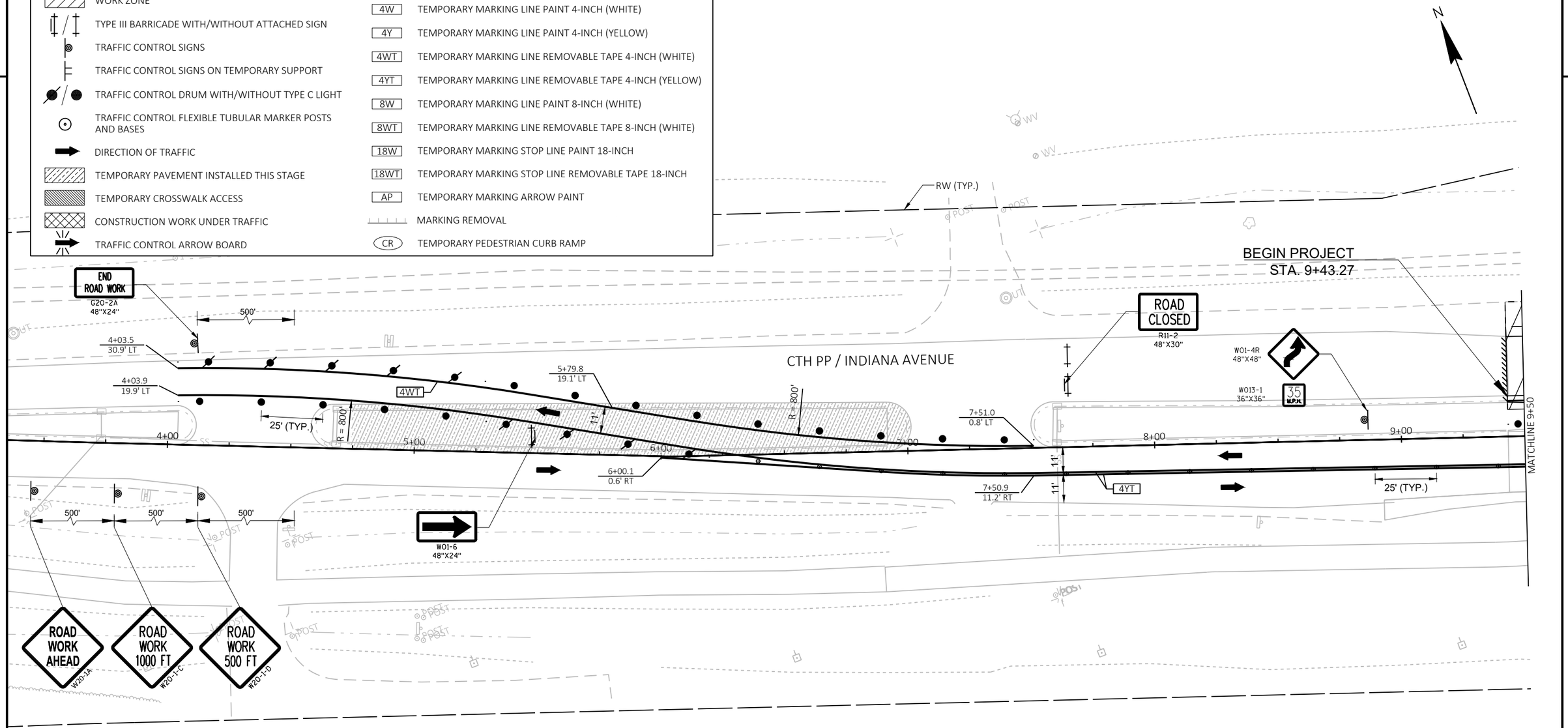
1. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - TYPICAL SECTIONS	SHEET 153	E

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP



FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER UNDIVIDED ROAD OPEN TO TRAFFIC".

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3	SHEET 154	E

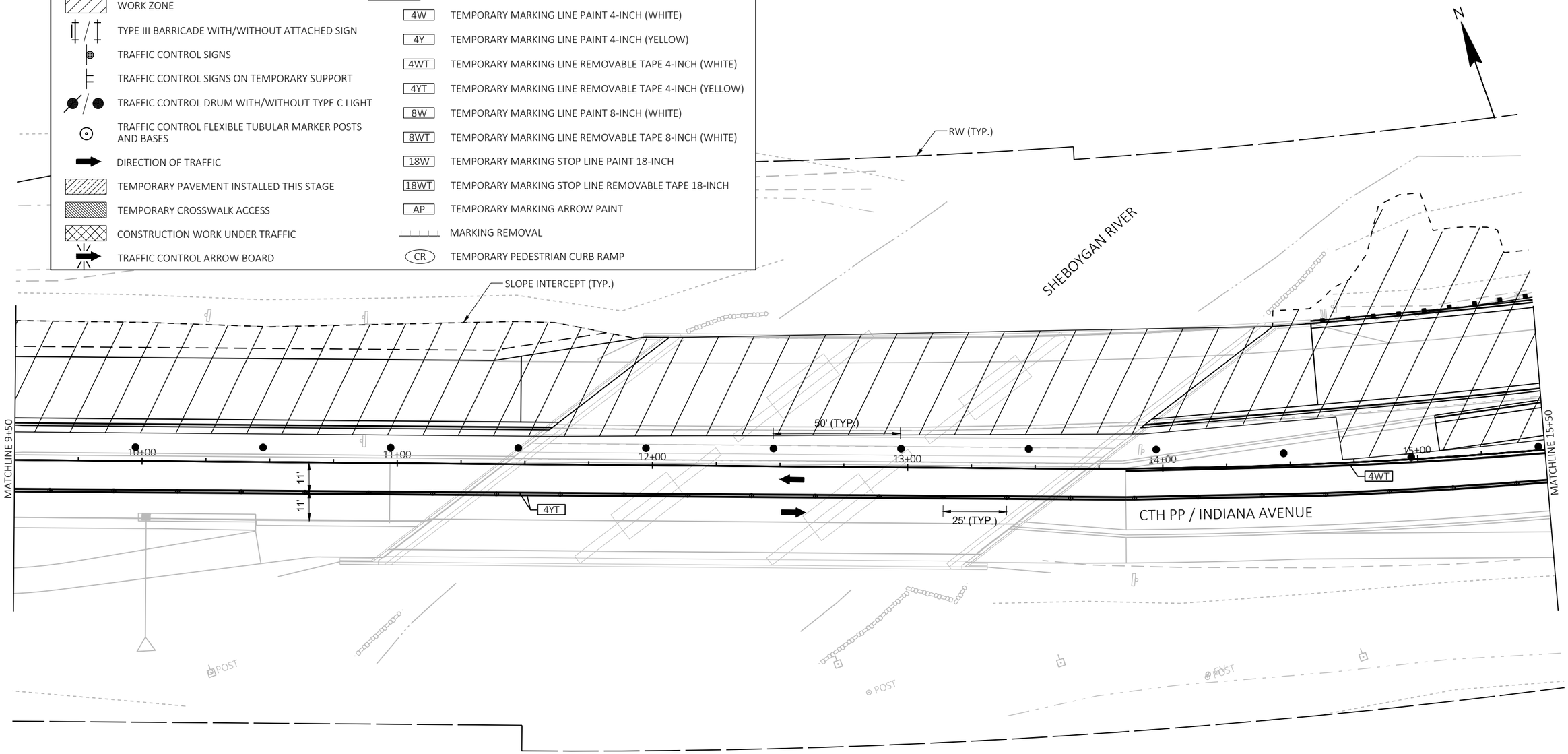
FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3.DWG
LAYOUT NAME - 025101_tc
PLOT DATE : 7/30/2021 10:48 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP



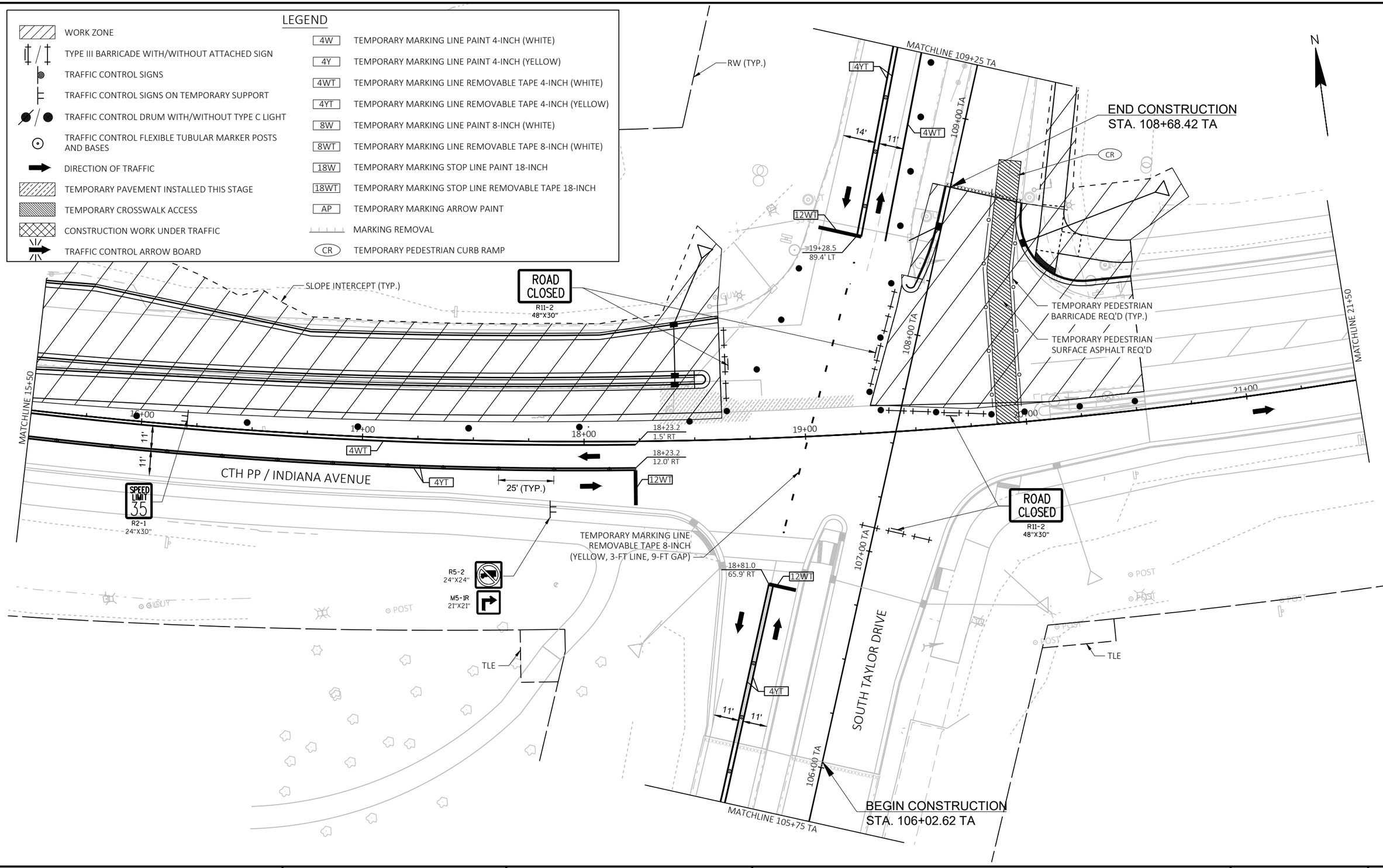
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3	SHEET 155	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3.DWG
LAYOUT NAME - 025102_tc

PLOT DATE : 7/30/2021 10:48 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

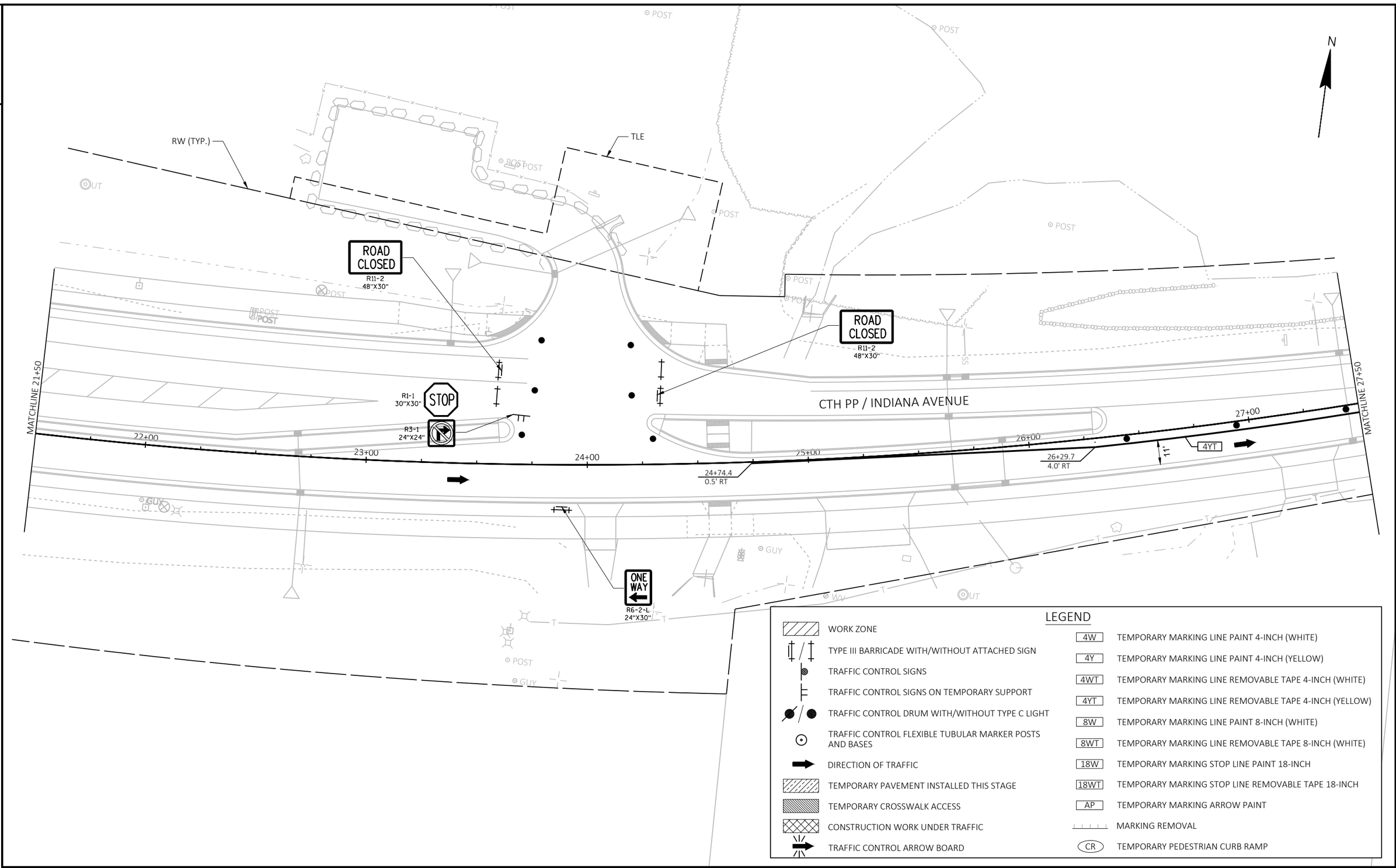
LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3	SHEET 156 E

2



LEGEND

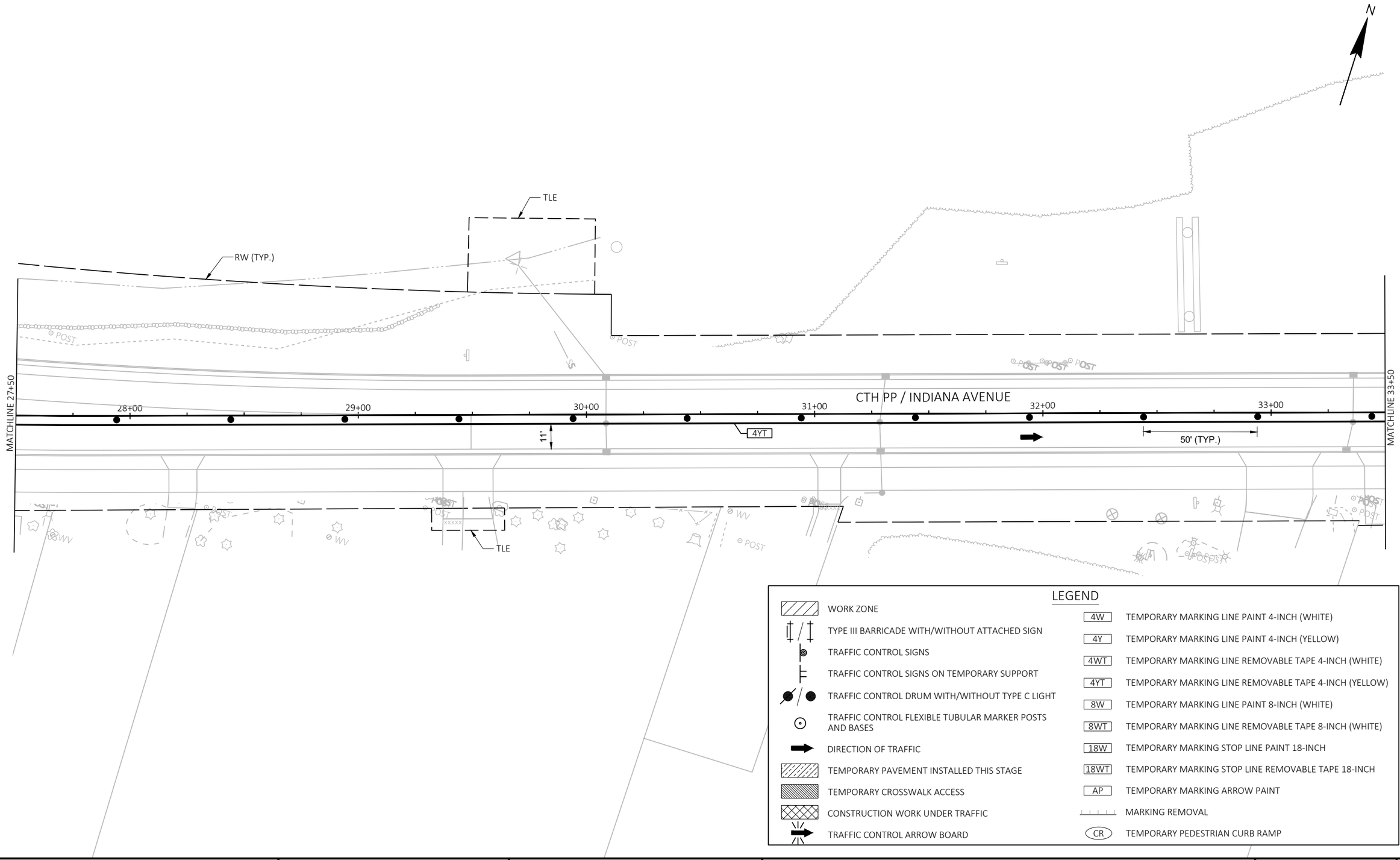
- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3	SHEET 157	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3.DWG
LAYOUT NAME - 025104_tc
PLOT DATE : 7/30/2021 10:49 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

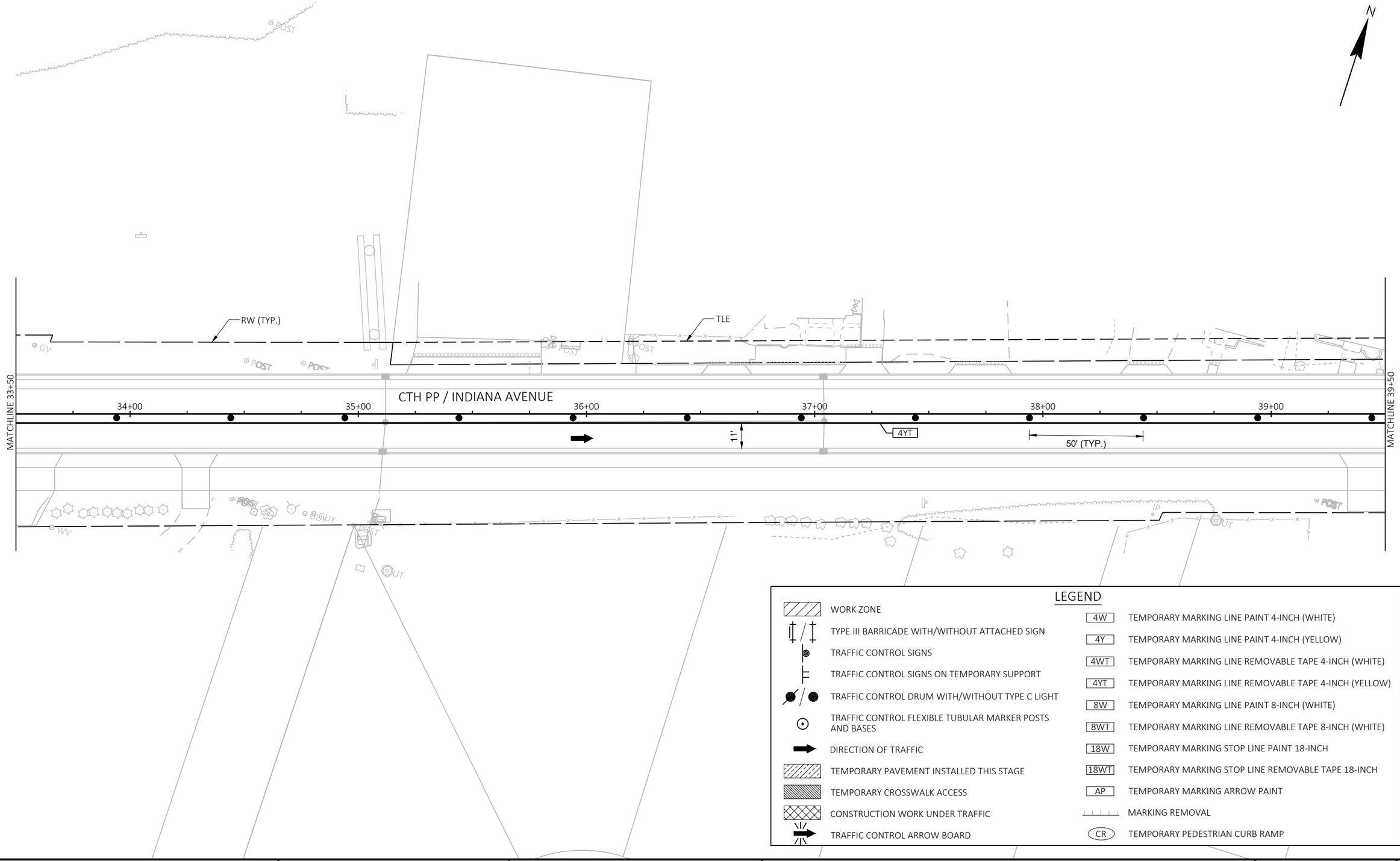
- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3	SHEET 158	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3.DWG
LAYOUT NAME - 025105_tc
PLOT DATE : 9/27/2021 9:45 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



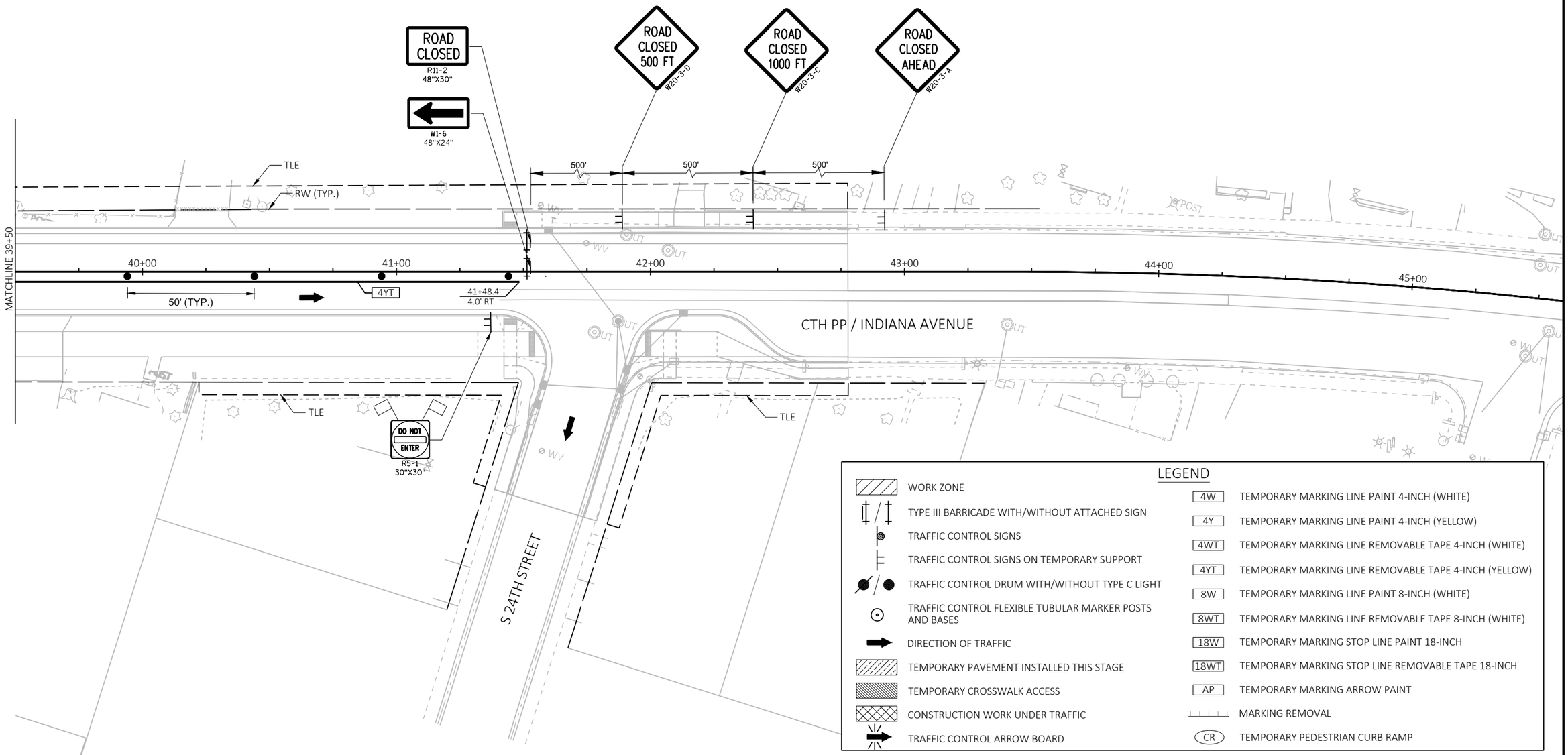
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3	SHEET 159	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3.DWG
LAYOUT NAME - 025106_tc

PLOT DATE : 9/27/2021 9:45 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".



LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3	SHEET 160	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3.DWG
LAYOUT NAME - 025107_tc
PLOT DATE : 9/28/2021 8:34 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

N

RW (TYP.)

SOUTH TAYLOR DRIVE

350' 350' 350' 245' MERGING TAPER

25' (TYP.)

14+01.6
1998.4' RT

4YT

13+64.9
1762.7' RT

ROAD WORK AHEAD W20-1A

LEFT LANE CLOSED AHEAD W20-5S-A

W04-2L

MATCHLINE A

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

2

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3	SHEET 161	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3.DWG
LAYOUT NAME - 025114_tc

PLOT DATE : 7/30/2021 10:49 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

N

RW (TYP.)

SOUTH TAYLOR DRIVE

LANE CLOSED
R11-2-L
48"X30"

50' (TYP.)

14'

MATCHLINE A

MATCHLINE B

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

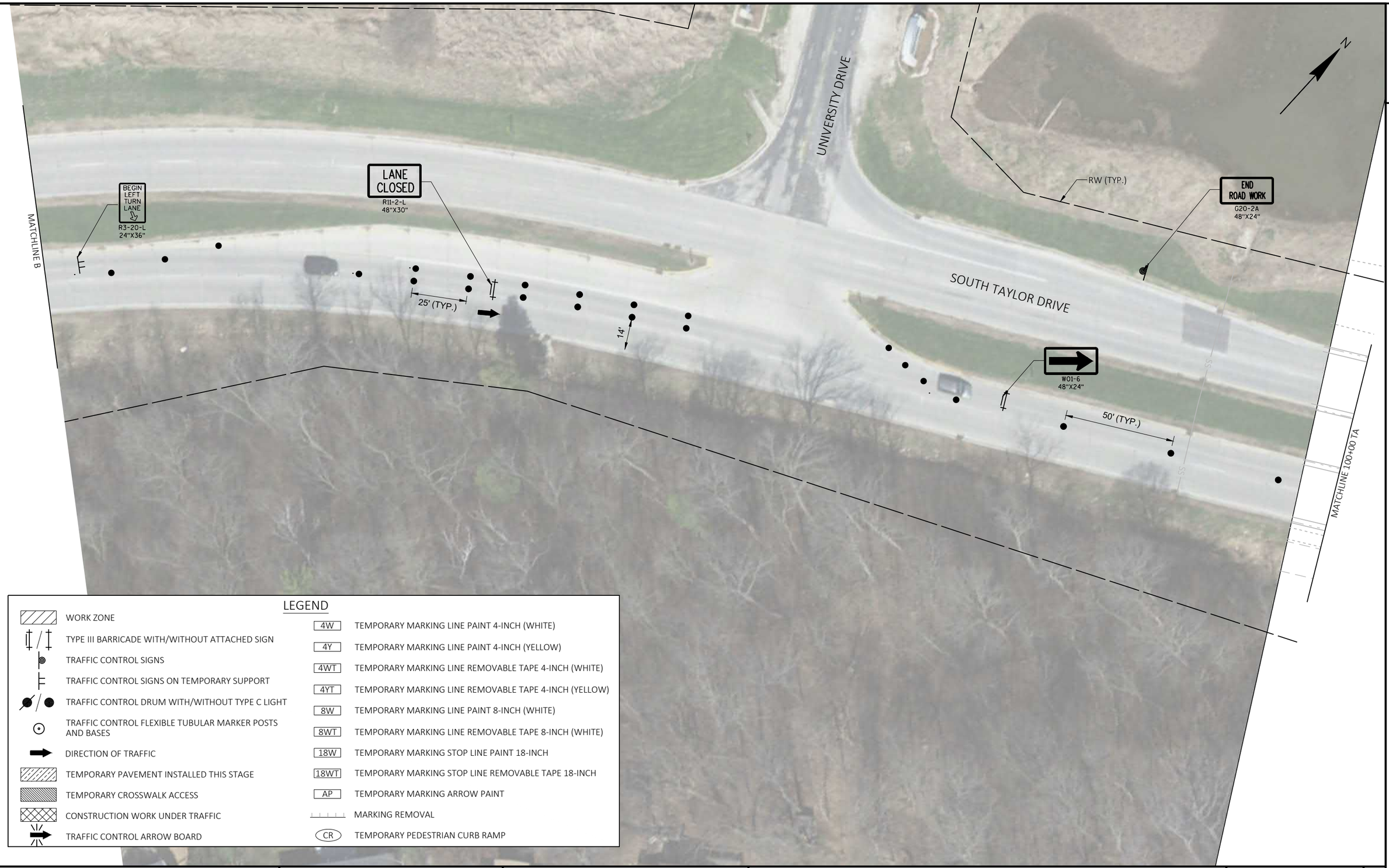
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3	SHEET 162	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3.DWG
LAYOUT NAME - 025108_tc

PLOT DATE : 7/30/2021 10:49 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



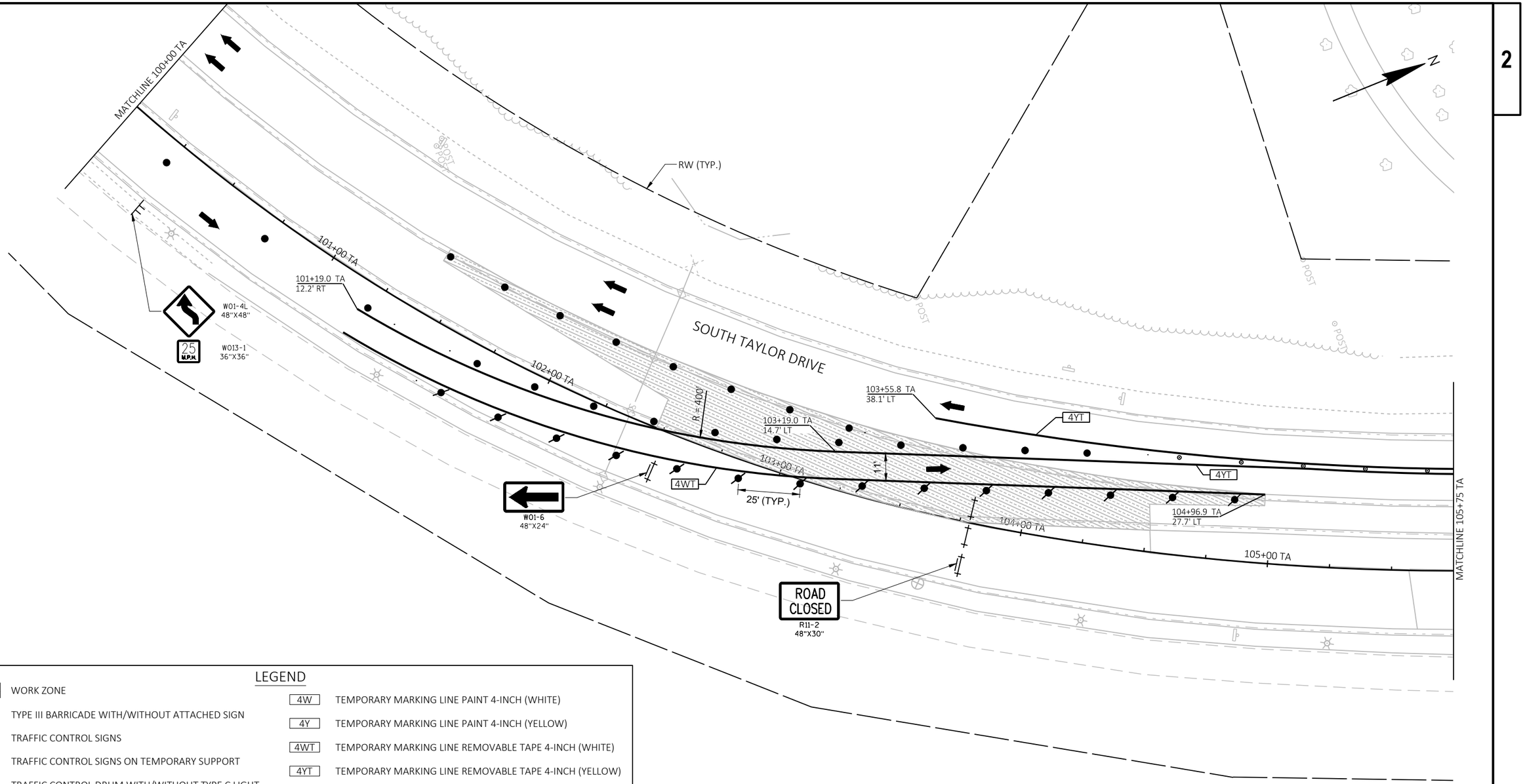
LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3	SHEET 163	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3.DWG
LAYOUT NAME - 025109_tc
PLOT DATE : 7/30/2021 10:50 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3	SHEET 164	E

2

N

RW (TYP.)

MATCHLINE 109+25 TA

11'
11'
10' MIN.
4WT
4YT
2'
11'
11'
25' (TYP.)
110+62.9 TA
28.7' LT
113+53.3 TA
28.3' LT
114+47.4 TA
26.5' LT
115+05.0 TA
9.7' LT
W01-6
48"X24"
W01-4R
48"X48"
W013-1
36"X36"
25 M.P.H.
R = 400'
11'
110+00 TA
111+00 TA
112+00 TA
113+00 TA
114+00 TA
115+00 TA
114+44.4 TA
15.9' LT
115+01.7 TA
0.8' RT
4WT
MATCHLINE C

CONCRETE BARRIER TEMPORARY PRECAST (TYP.)

SOUTH TAYLOR DRIVE

POST
OUT

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3	SHEET 165	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3.DWG
LAYOUT NAME - 025111_tc
PLOT DATE : 7/30/2021 11:02 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

MATCHLINE D

LANE CLOSED
R11-2-L
48"X30"

END ROAD WORK
G20-2A
48"X24"

50' (TYP.)

14'

SOUTH TAYLOR DRIVE

117+00 TA

116+40.2 TA
11.9' RT

116+00 TA

R = 400'

4YT

MATCHLINE C

25' (TYP.)

4WT

116+40.0 TA
22.9' RT

RW (TYP.)

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3	SHEET 166	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3.DWG
LAYOUT NAME - 025112_tc
PLOT DATE : 7/30/2021 10:50 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

N

W04-2L

LEFT LANE CLOSED AHEAD
W20-55-4

ROAD WORK AHEAD
W20-1A

245' MERGING TAPER

MATCHLINE D

24+46.4
1339.6' LT

4YT

25' (TYP.)

25+51.6
1584.0' LT

350'

350'

350'

29+16.6
1589.2' LT

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

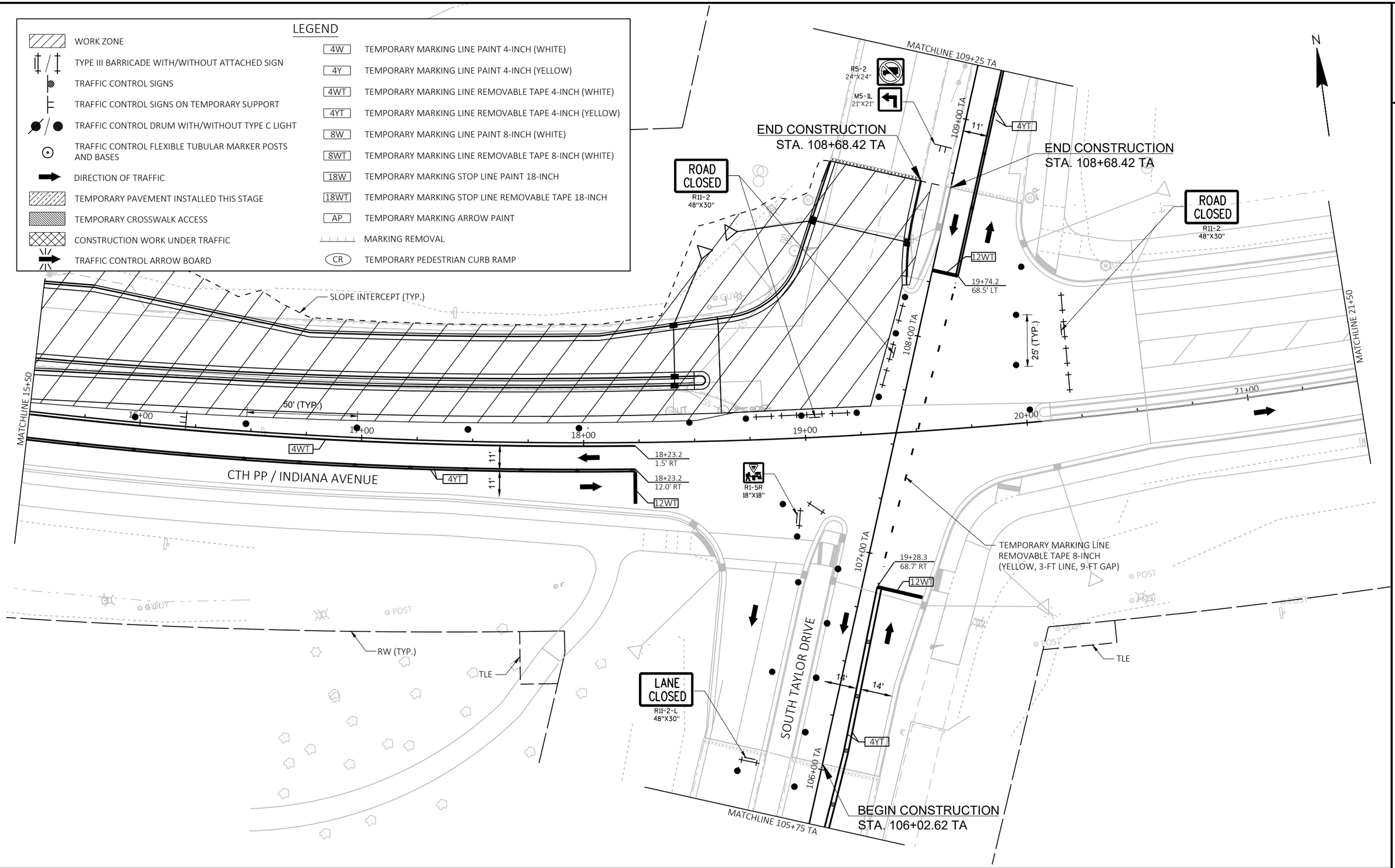
- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3	SHEET 167	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3.DWG
LAYOUT NAME - 025113_tc
PLOT DATE : 7/30/2021 10:50 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP



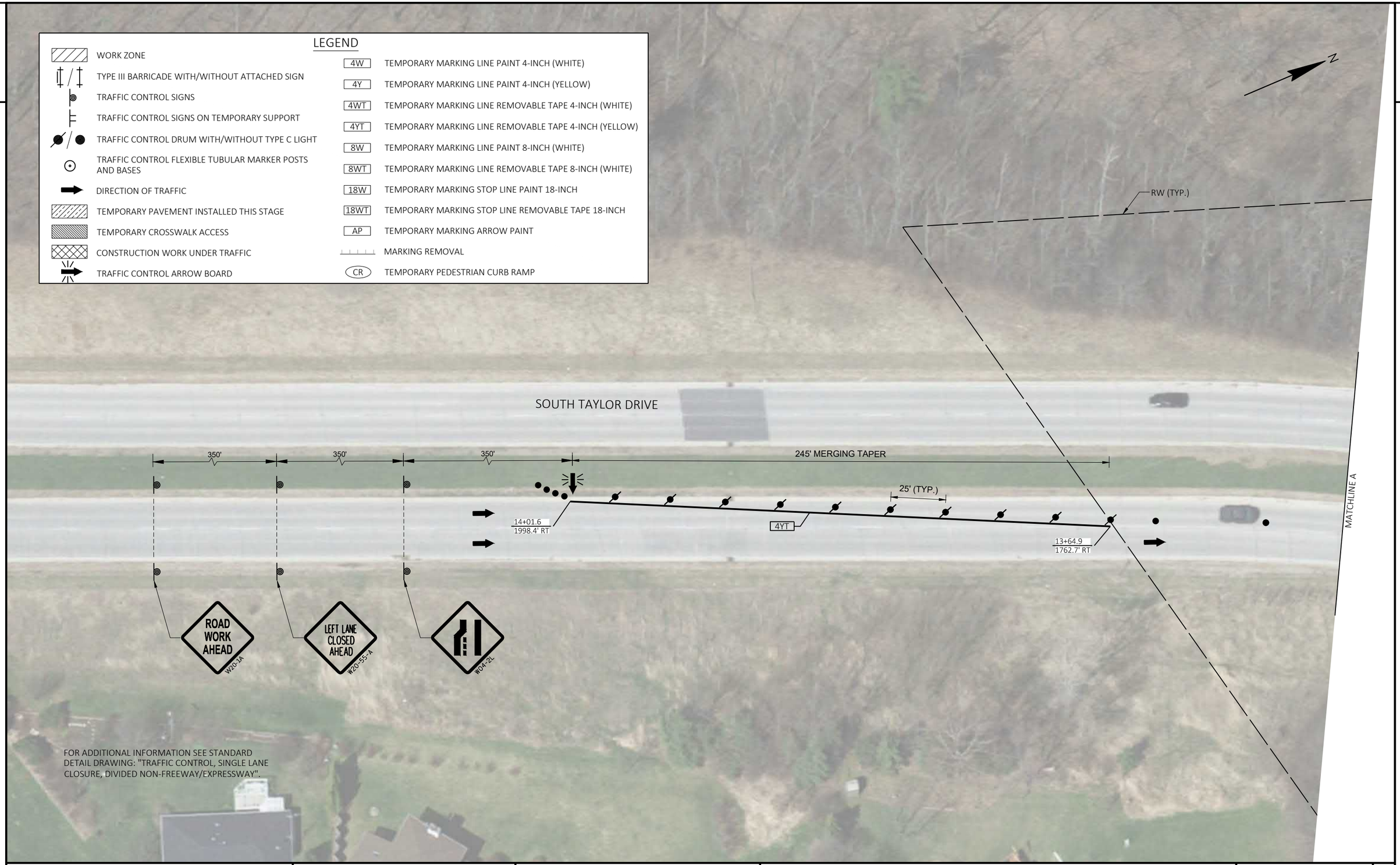
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3A	SHEET 168 E

2

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP



FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

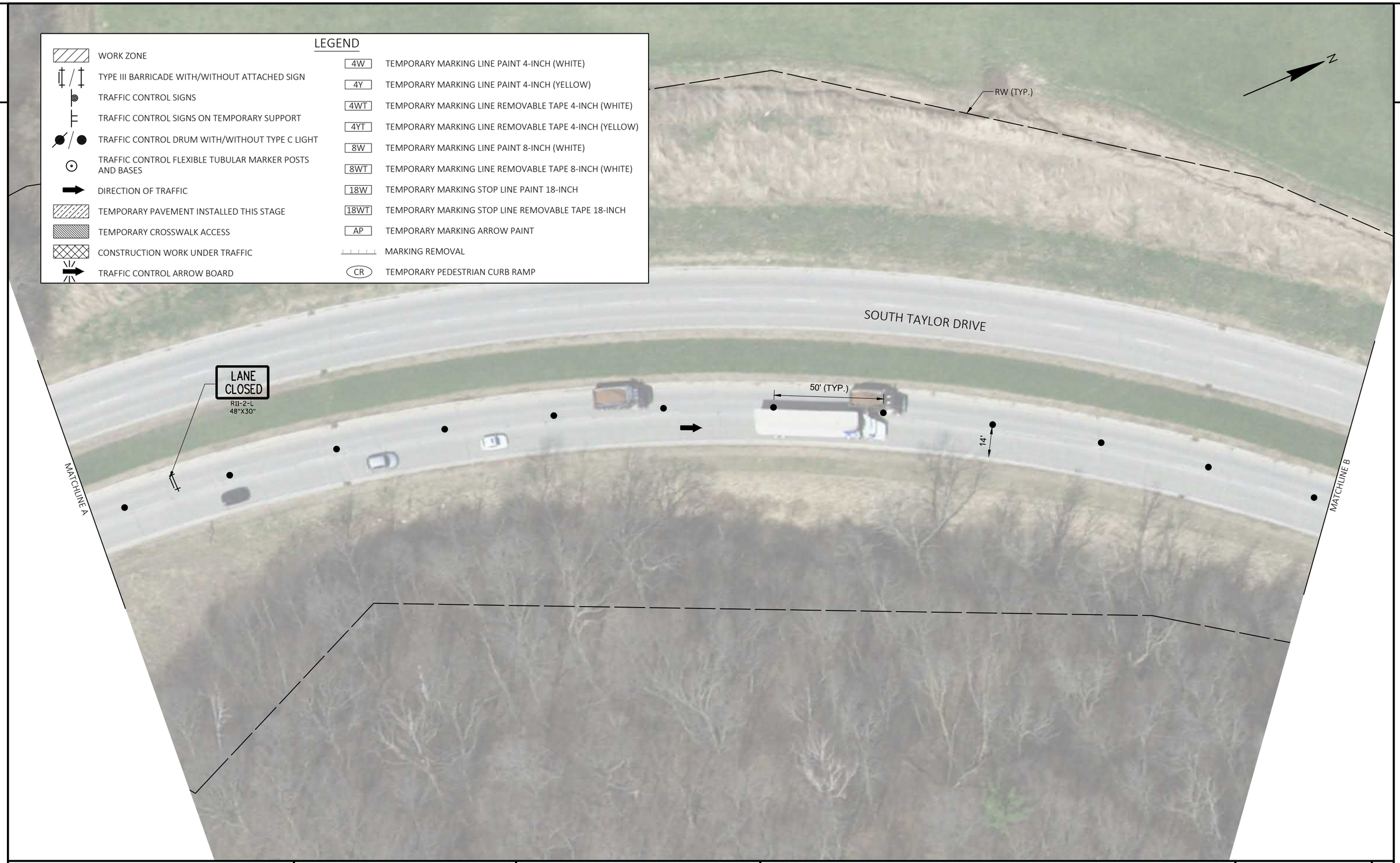
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3A	SHEET 169	E

2

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3A	SHEET 170	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3A.DWG
LAYOUT NAME - 025108_tc

PLOT DATE : 7/30/2021 10:52 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

LANE CLOSED
R11-2-L
48"X30"

25' (TYP.)

14'

MATCHLINE B

UNIVERSITY DRIVE

SOUTH TAYLOR DRIVE

RW (TYP.)

END ROAD WORK
G20-2A
48"X24"

50' (TYP.)

W01-6
48"X24"

MATCHLINE 100+00 TA

N

LEGEND

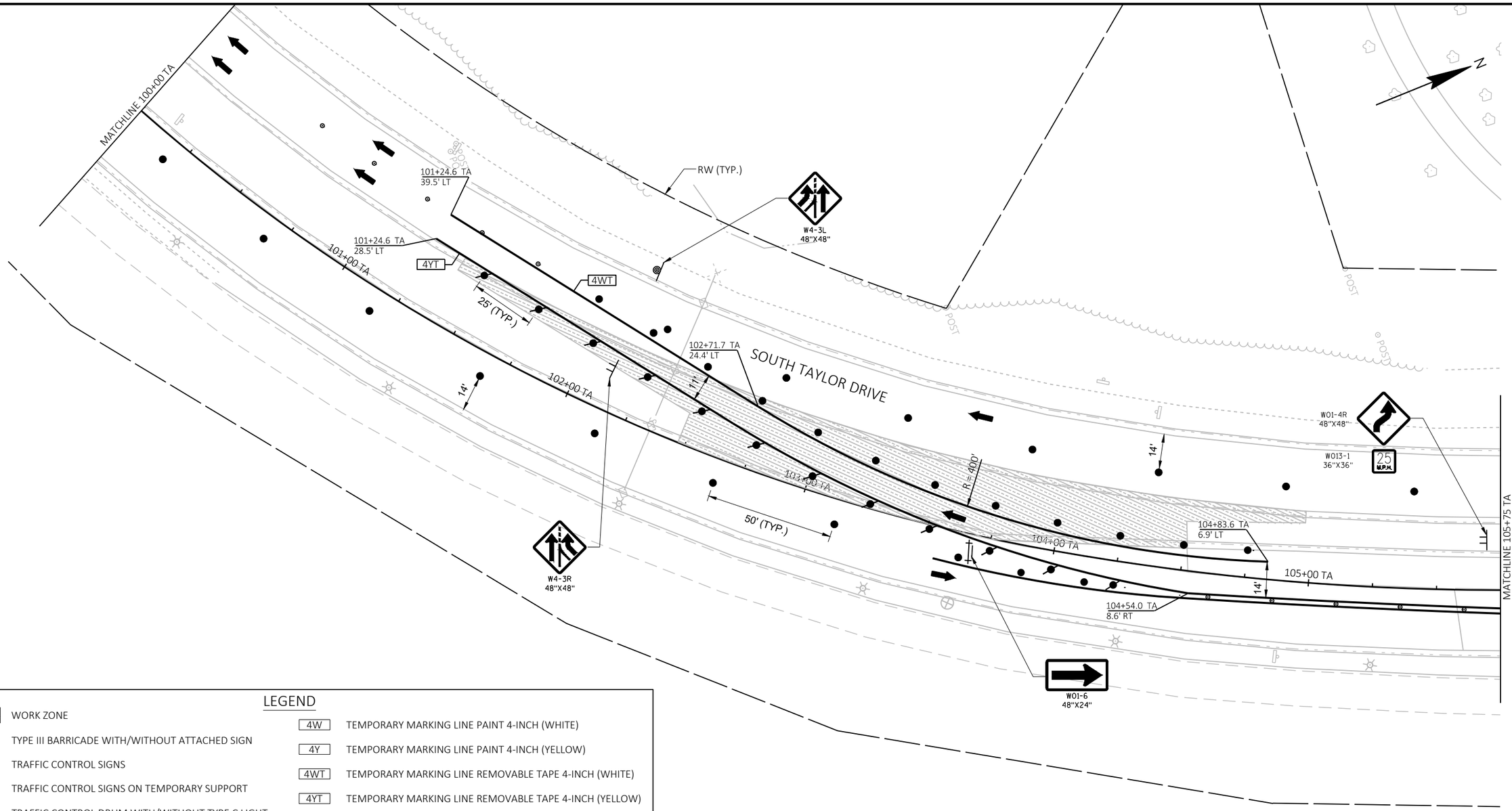
WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3A	SHEET 171	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3A.DWG
LAYOUT NAME - 025106_tc
PLOT DATE : 7/30/2021 10:52 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



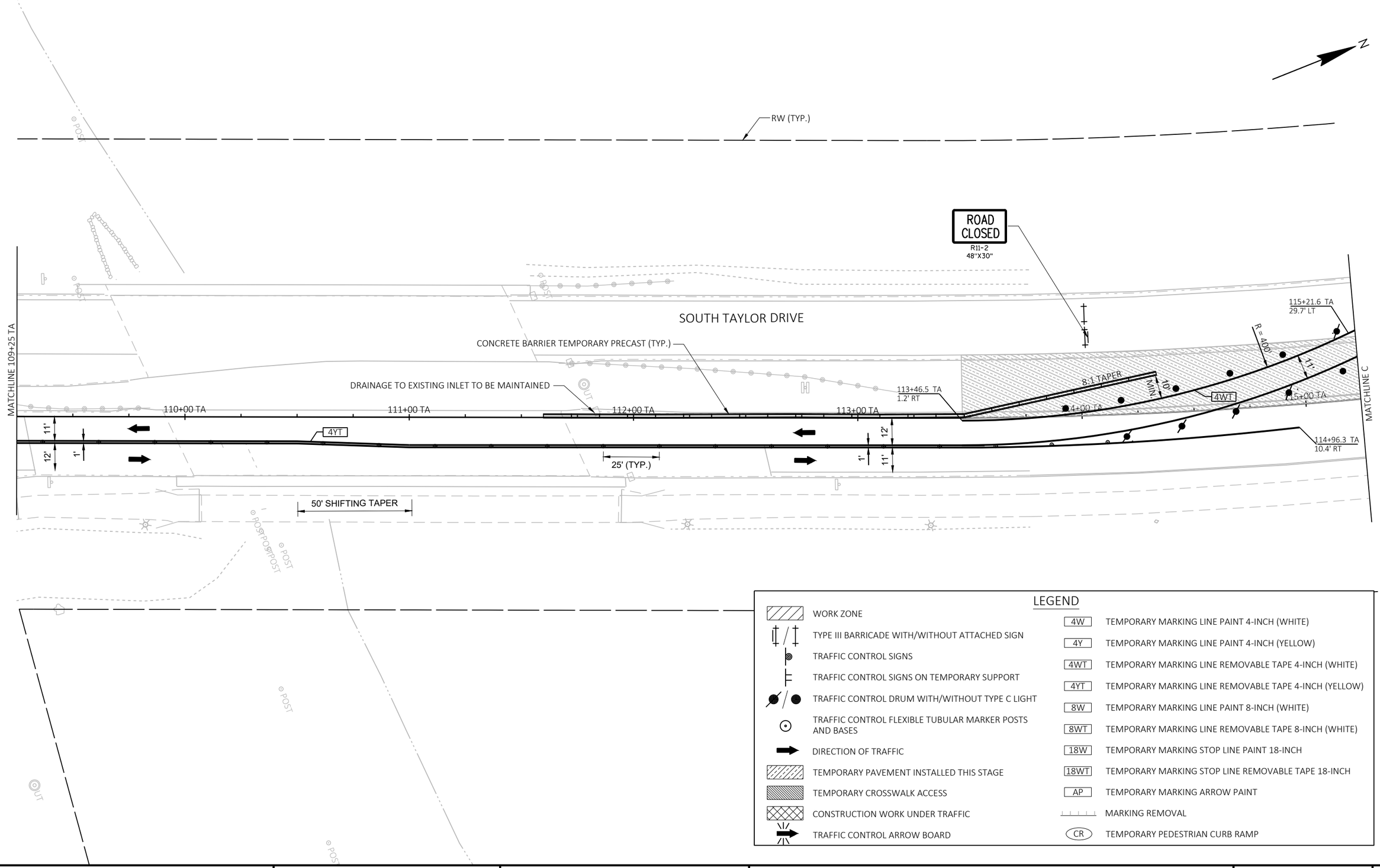
LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3A	SHEET 172	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3A.DWG
LAYOUT NAME - 025102_tc
PLOT DATE : 7/30/2021 10:52 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

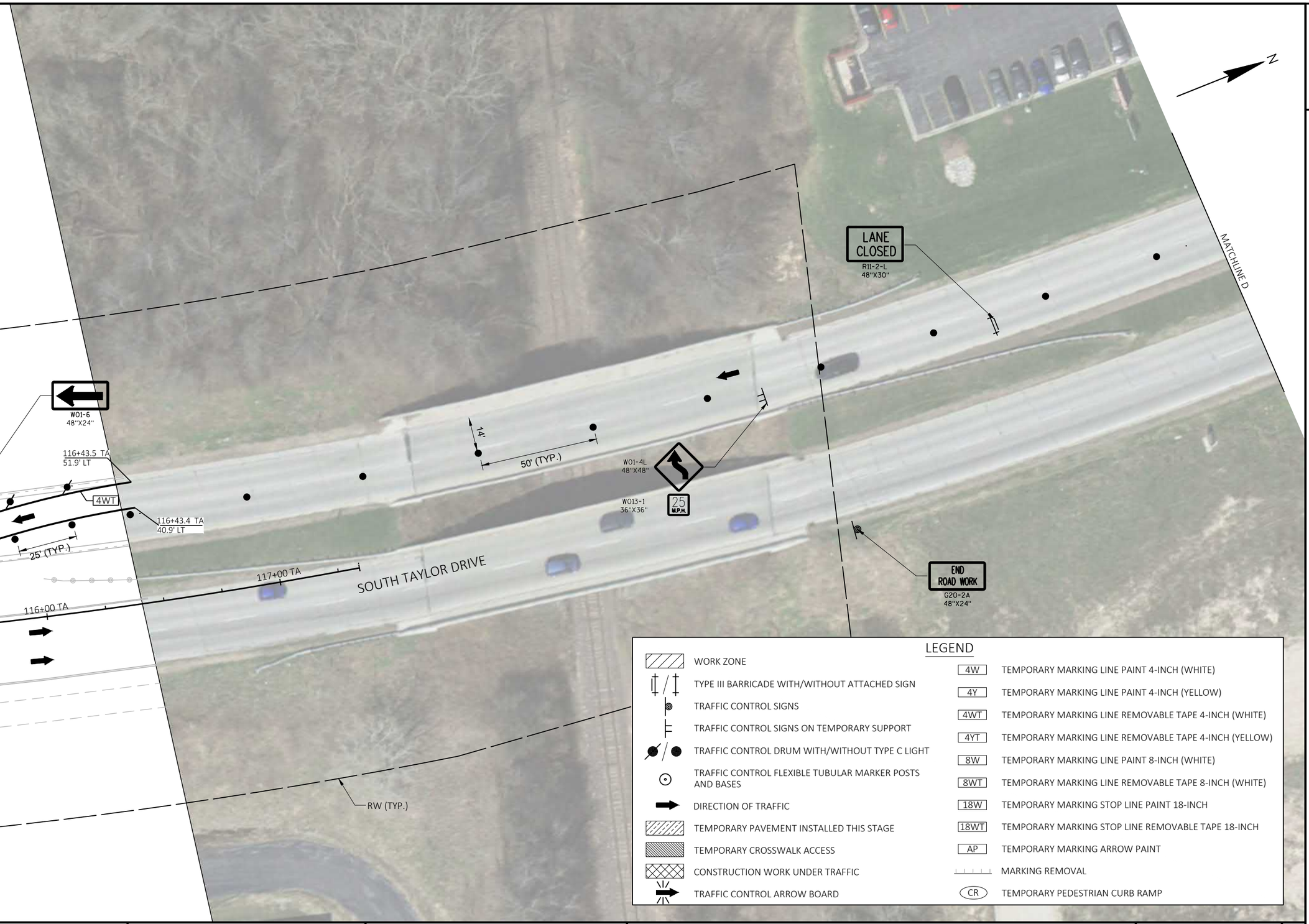
- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3A	SHEET 173	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3A.DWG
LAYOUT NAME - 025103_tc

PLOT DATE : 7/30/2021 11:04 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3A	SHEET 174	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3A.DWG
LAYOUT NAME - 025104_tc
PLOT DATE : 7/30/2021 10:52 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

N

W04-2L

LEFT LANE CLOSED AHEAD
W20-55-4

ROAD WORK AHEAD
W20-1A

245' MERGING TAPER

MATCHLINE D

24+46.4
1339.6' LT

25' (TYP.)

4YT

25+51.6
1584.0' LT

350'

350'

350'

SOUTH TAYLOR DRIVE

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 3A	SHEET 175	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S3A.DWG
LAYOUT NAME - 025105_tc
PLOT DATE : 7/30/2021 10:52 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

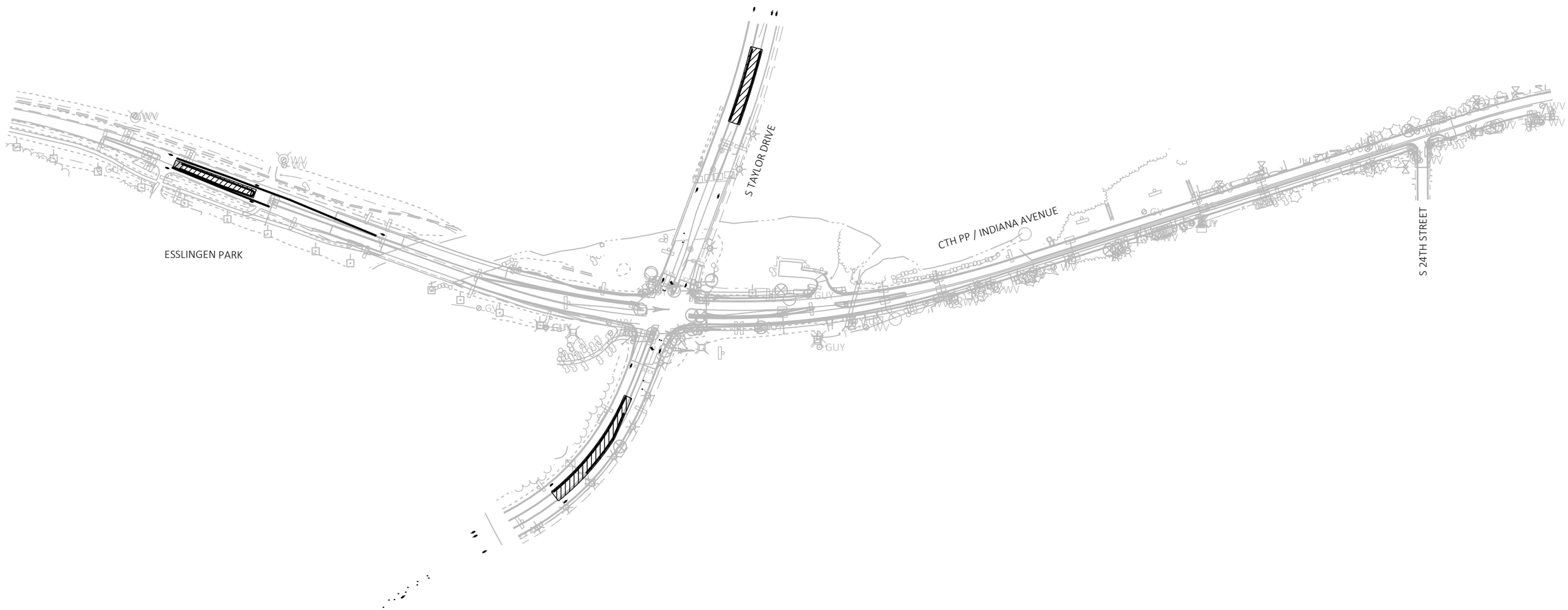
2

N

TRAFFIC CONTROL NOTES

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
2. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
3. 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.
4. SIGNS DESIGNATED AS "W0" ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
5. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
6. PAVEMENT MARKING WHICH MAY CONFLICT WITH TRAFFIC CONTROL "IN-USE" SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
7. TEMPORARY MARKING ON EXISTING OR TEMPORARY PAVEMENT SHALL BE TEMPORARY MARKING PAINT.
8. TEMPORARY MARKING ON NEW PAVEMENT SHALL BE TEMPORARY MARKING REMOVABLE TAPE.

NOTE: ALL TRAFFIC CONTROL DEVICES AND TEMPORARY MARKING REQUIRED FOR STAGE 5 MUST BE IN PLACE UPON THE COMPLETION OF STAGE 4 AND PRIOR TO SWITCHING TRAFFIC TO STAGE 5.

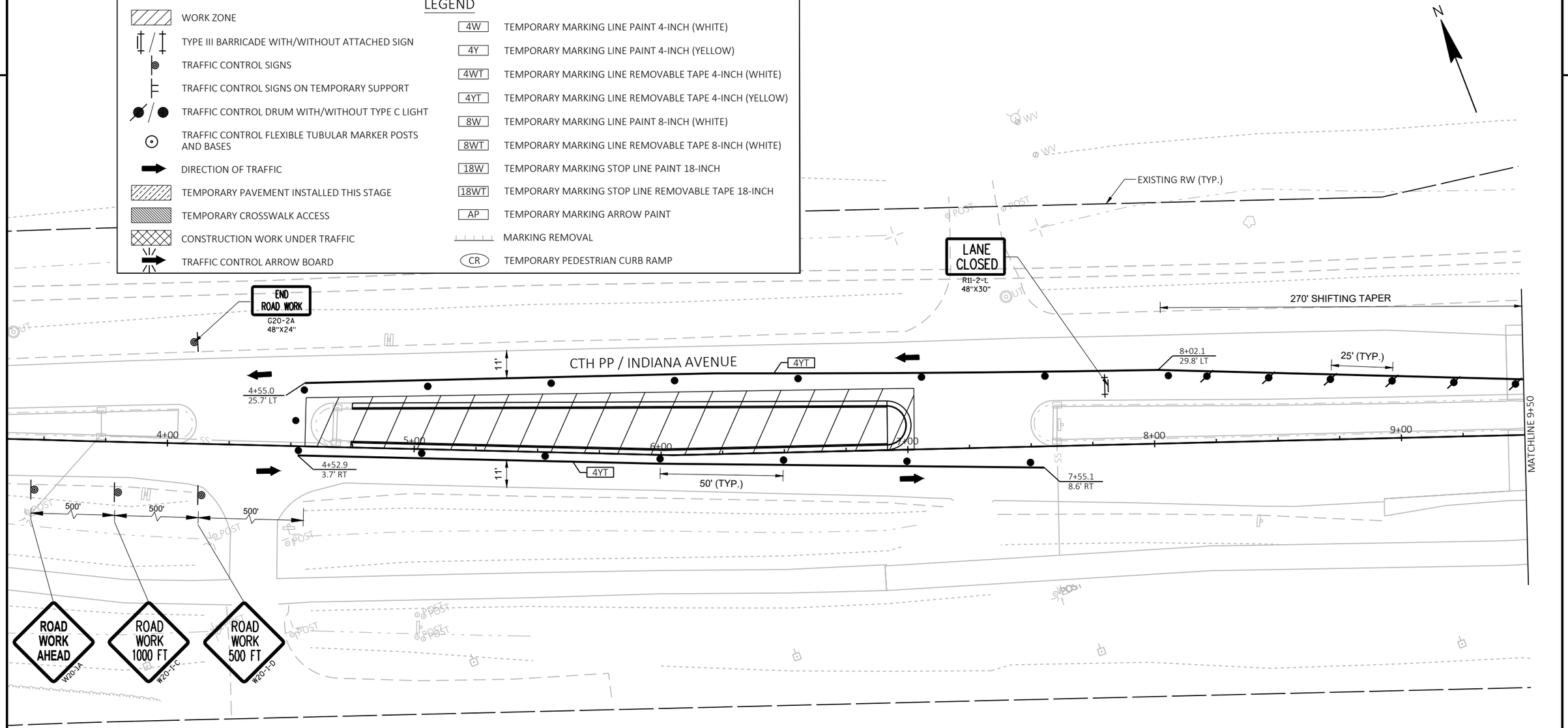


PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 4 OVERVIEW	SHEET 176	E

2

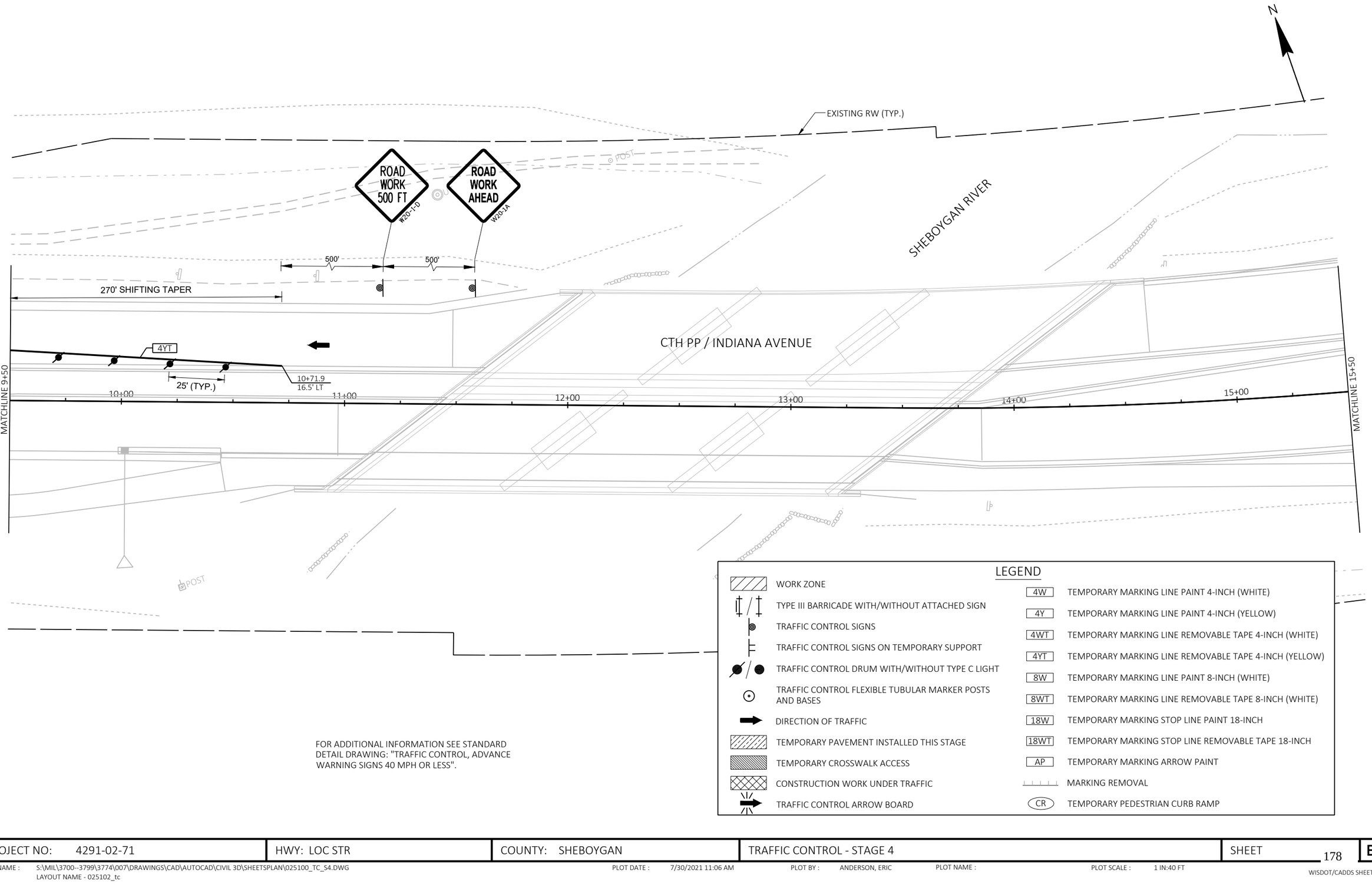
LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP



FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER UNDIVIDED ROAD OPEN TO TRAFFIC".

2



FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS".

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

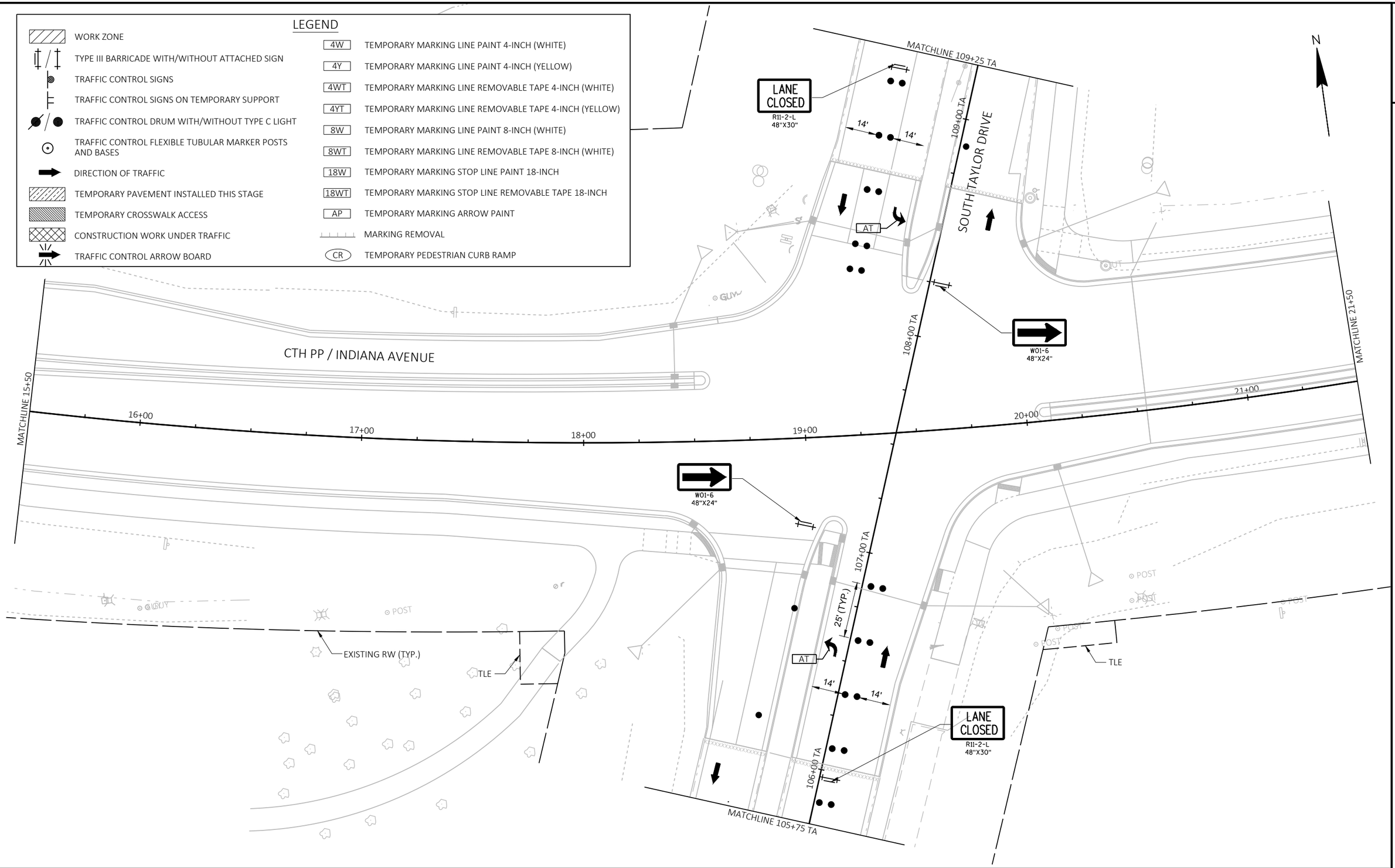
- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 4	SHEET 178	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S4.DWG
LAYOUT NAME - 025102_tc
PLOT DATE : 7/30/2021 11:06 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 4	SHEET 179	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S4.DWG
LAYOUT NAME - 025103_tc
PLOT DATE : 7/30/2021 11:06 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

N

RW (TYP.)

SOUTH TAYLOR DRIVE

350' 350' 350' 245' MERGING TAPER

25' (TYP.)

14+01.6
1998.4' RT

4YT

13+64.9
1762.7' RT

MATCHLINE A

ROAD WORK AHEAD W20-1A

LEFT LANE CLOSED AHEAD W20-5S-A

W04-2L

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

2

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 4	SHEET 180	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S4.DWG
LAYOUT NAME - 025115_tc

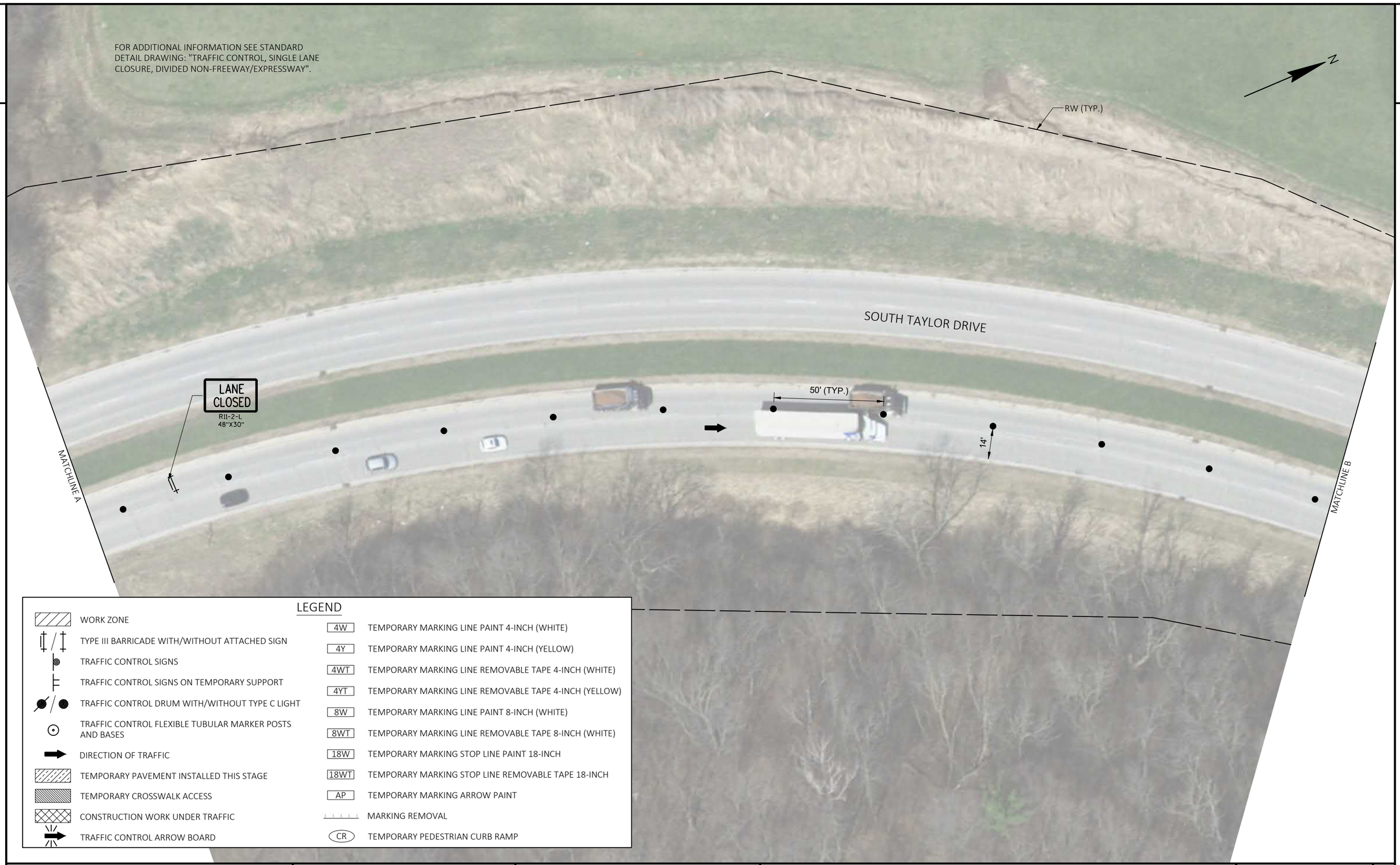
PLOT DATE : 7/30/2021 11:07 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".



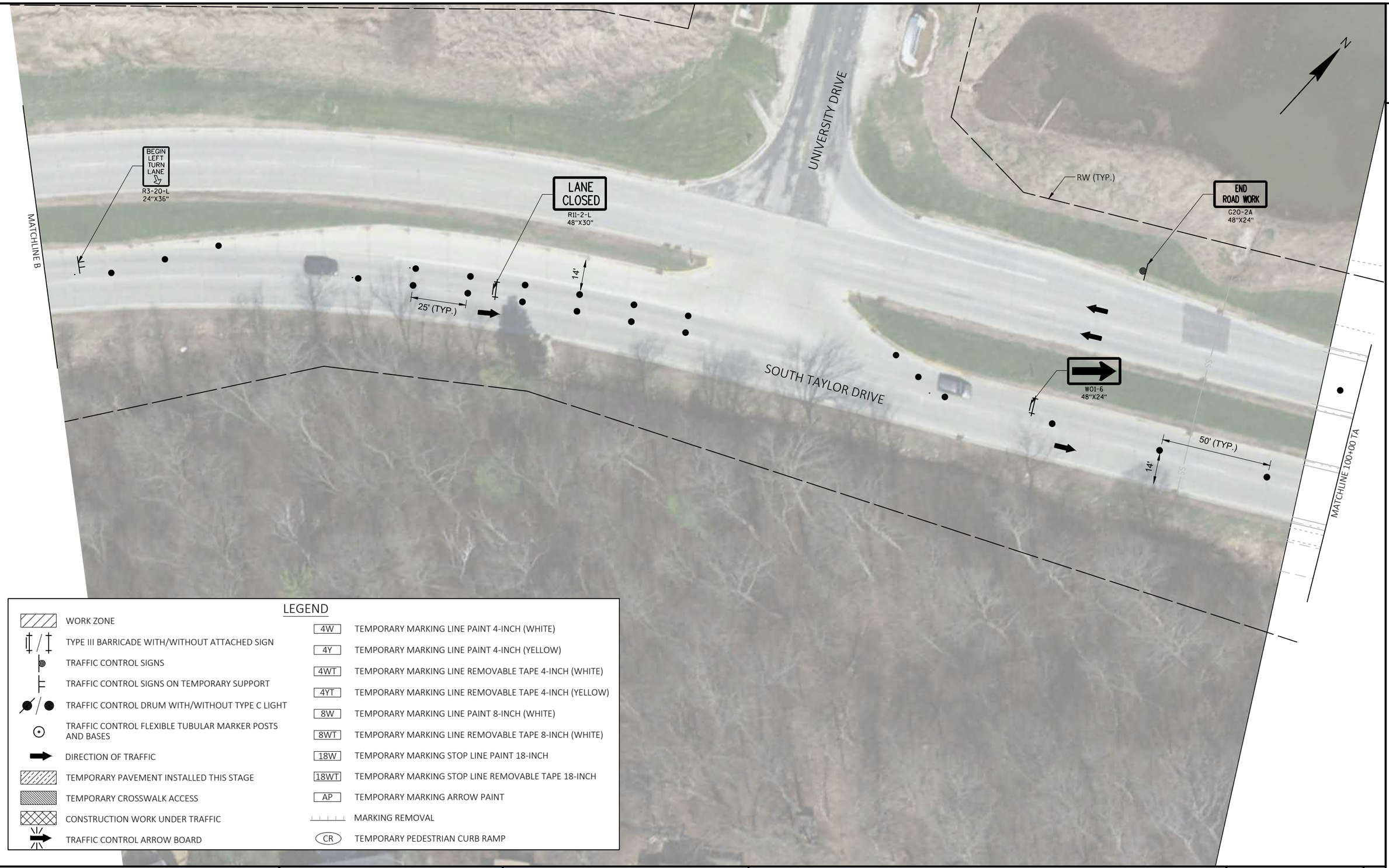
LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 4	SHEET 181	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S4.DWG
LAYOUT NAME - 025104_tc
PLOT DATE : 7/30/2021 11:07 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



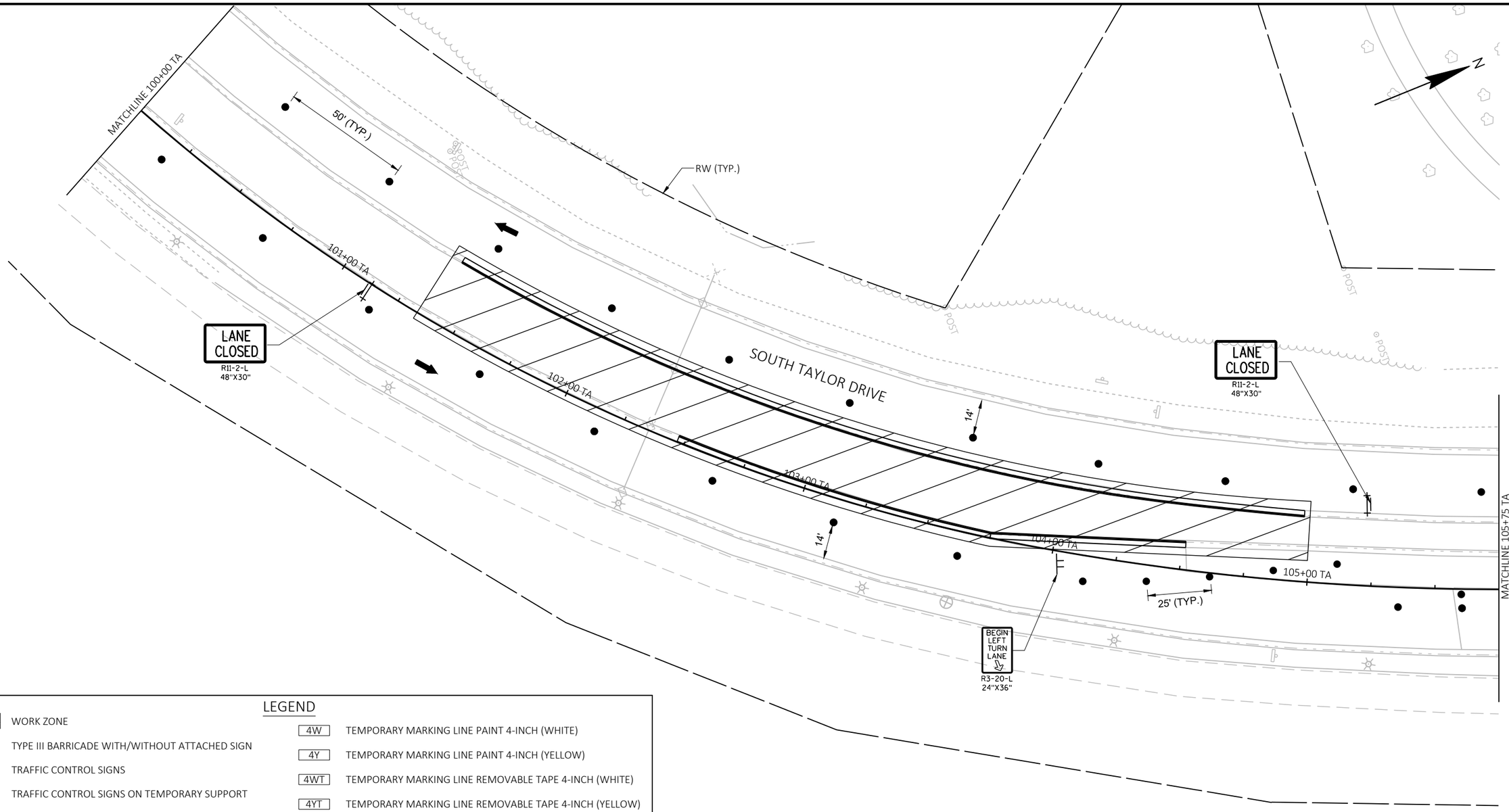
LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 4	SHEET 182	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S4.DWG
LAYOUT NAME - 025105_tc
PLOT DATE : 7/30/2021 11:07 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

	WORK ZONE	4W	TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
	TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y	TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
	TRAFFIC CONTROL SIGNS	4WT	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
	TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W	TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
	DIRECTION OF TRAFFIC	18W	TEMPORARY MARKING STOP LINE PAINT 18-INCH
	TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT	TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
	TEMPORARY CROSSWALK ACCESS	AP	TEMPORARY MARKING ARROW PAINT
	CONSTRUCTION WORK UNDER TRAFFIC		MARKING REMOVAL
	TRAFFIC CONTROL ARROW BOARD	CR	TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 4	SHEET 183	E

2

N

RW (TYP.)

MATCHLINE 109+25 TA

MATCHLINE C

110+00 TA

111+00 TA

112+00 TA

113+00 TA

114+00 TA

115+00 TA

14'

50' (TYP.)

BEGIN LEFT TURN LANE

R3-20-L
24"X36"

SOUTH TAYLOR DRIVE

14'

LANE CLOSED

R11-2-L
48"X30"

LANE CLOSED

R11-2-L
48"X30"

POST

OUT

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 4	SHEET 184	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S4.DWG
LAYOUT NAME - 025107_tc

PLOT DATE : 7/30/2021 10:54 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

LANE CLOSED
R11-2-L
48"X30"

LANE CLOSED
R11-2-L
48"X30"

50' (TYP.)

14'

14'

117+00 TA

116+00 TA

MATCHLINE C

MATCHLINE D

SOUTH TAYLOR DRIVE

END ROAD WORK
C20-2A
48"X24"

RW (TYP.)

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 4	SHEET 185	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S4.DWG
LAYOUT NAME - 025108_tc

PLOT DATE : 7/30/2021 11:07 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY".

N

W04-2L

LEFT LANE CLOSED AHEAD
W20-55-4

ROAD WORK AHEAD
W20-1A

245' MERGING TAPER

MATCHLINE D

24+46.4
1339.6' LT

4YT

25' (TYP.)

25+51.6
1584.0' LT

350'

350'

350'

SOUTH TAYLOR DRIVE

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL SIGNS
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT INSTALLED THIS STAGE
- TEMPORARY CROSSWALK ACCESS
- CONSTRUCTION WORK UNDER TRAFFIC
- TRAFFIC CONTROL ARROW BOARD

- 4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- 4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- 4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- 4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- 8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
- 8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
- 18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
- 18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- AP — TEMPORARY MARKING ARROW PAINT
- MARKING REMOVAL
- CR — TEMPORARY PEDESTRIAN CURB RAMP

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 4	SHEET 186	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S4.DWG
LAYOUT NAME - 025109_tc
PLOT DATE : 7/30/2021 11:07 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

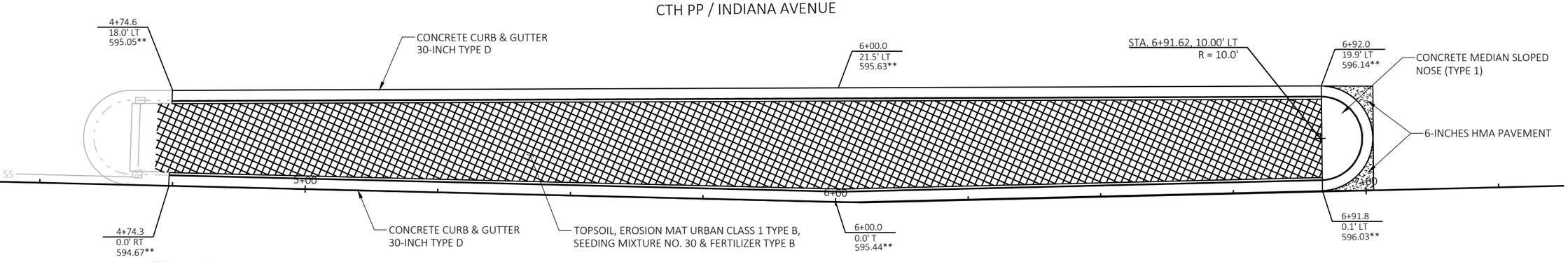
2

2

N

** MATCH EXISTING

CTH PP / INDIANA AVENUE



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TEMPORARY PAVEMENT RESTORATION - STAGE 4	SHEET 187	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S4_TEMP PAVT.DWG
LAYOUT NAME - 025101_tc

PLOT DATE : 7/30/2021 10:55 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

N

101+38.9 TA
28.1' LT
596.62**

RESET SALVAGED INLET COVER

CONCRETE CURB & GUTTER
30-INCH TYPE D

102+00 TA

102+47.0 TA
0.0' LT
597.22**

SOUTH TAYLOR DRIVE

103+00 TA

TOPSOIL, EROSION MAT URBAN CLASS 1 TYPE B,
SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B

CONCRETE CURB & GUTTER
30-INCH TYPE D

103+75.3 TA
0.2' RT
597.81**

104+00 TA

104+97.0 TA
27.8' LT
598.06**

104+51.6 TA
8.7' LT
598.05**

** MATCH EXISTING

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TEMPORARY PAVEMENT RESTORATION - STAGE 4	SHEET 188	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S4_TEMP PAVT.DWG
LAYOUT NAME - 025102_tc
PLOT DATE : 7/30/2021 10:55 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

2

2

N

SOUTH TAYLOR DRIVE

MATCHLINE 109+25 TA

113+46.3 TA
28.1' LT
608.41**

CONCRETE CURB & GUTTER
30-INCH TYPE D

RESET SALVAGED INLET COVER

RESET SALVAGED MANHOLE COVER

115+64.1 TA
27.9' LT
619.19**

116+00 TA

115+64.1 TA
0.0' LT
619.12**

115+00 TA

RESET SALVAGED INLET COVER

114+00 TA

113+46.7 TA
0.0' T
608.17**

CONCRETE CURB & GUTTER
30-INCH TYPE D

TOPSOIL, EROSION MAT URBAN CLASS 1 TYPE B,
SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B

** MATCH EXISTING

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TEMPORARY PAVEMENT RESTORATION - STAGE 4	SHEET 189	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S4_TEMP PAVT.DWG
LAYOUT NAME - 025103_tc

PLOT DATE : 7/30/2021 10:55 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT

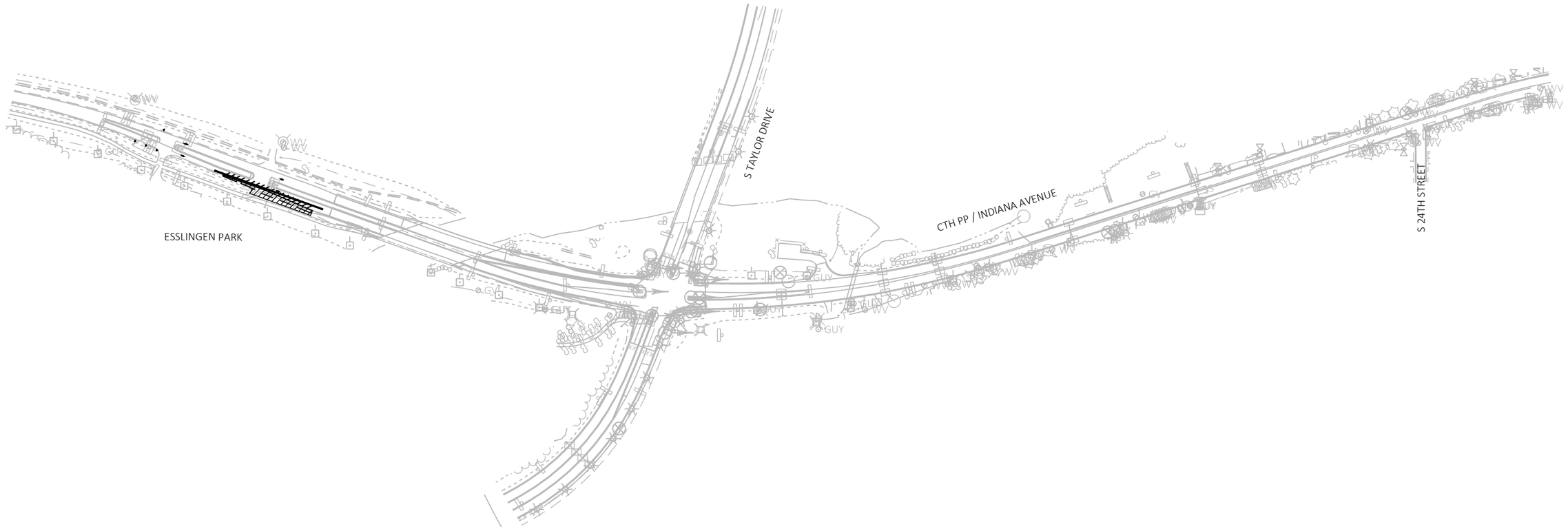
WISDOT/CADDS SHEET 42

2

N

TRAFFIC CONTROL NOTES

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
2. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
3. 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.
4. SIGNS DESIGNATED AS "W0" ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
5. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
6. PAVEMENT MARKING WHICH MAY CONFLICT WITH TRAFFIC CONTROL "IN-USE" SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
7. TEMPORARY MARKING ON EXISTING OR TEMPORARY PAVEMENT SHALL BE TEMPORARY MARKING PAINT.
8. TEMPORARY MARKING ON NEW PAVEMENT SHALL BE TEMPORARY MARKING REMOVABLE TAPE.



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 5 OVERVIEW	SHEET 190	E

2

2

LEGEND

WORK ZONE	4W — TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN	4Y — TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
TRAFFIC CONTROL SIGNS	4WT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT	4YT — TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	8W — TEMPORARY MARKING LINE PAINT 8-INCH (WHITE)
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS AND BASES	8WT — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
DIRECTION OF TRAFFIC	18W — TEMPORARY MARKING STOP LINE PAINT 18-INCH
TEMPORARY PAVEMENT INSTALLED THIS STAGE	18WT — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY CROSSWALK ACCESS	AP — TEMPORARY MARKING ARROW PAINT
CONSTRUCTION WORK UNDER TRAFFIC	MARKING REMOVAL
TRAFFIC CONTROL ARROW BOARD	CR — TEMPORARY PEDESTRIAN CURB RAMP

N

RW (TYP.)

END ROAD WORK
G20-2A
48"X24"

500'

CTH PP / INDIANA AVENUE

4+00 5+00 6+00 7+00 8+00 9+00

MATCHLINE 9+50

500' 500' 500'

ROAD WORK AHEAD W20-1A

ROAD WORK 1000 FT W20-1-C

ROAD WORK 500 FT W20-1-D

5+88.6
11.6' RT

BEGIN CONSTRUCTION
STA. 6+16.42

11'

25' (TYP.)

4WT

9+20.4
11.0' RT

FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER UNDIVIDED ROAD OPEN TO TRAFFIC".

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	TRAFFIC CONTROL - STAGE 5	SHEET 191	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\025100_TC_S5.DWG
LAYOUT NAME - 025101_tc

PLOT DATE : 7/30/2021 10:56 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

NOTE: SEE NEXT SHEET FOR DETOUR SIGN LEGEND

WORK ZONE. ONE-WAY EASTBOUND TRAFFIC MAINTAINED.

CTH PP / INDIANA AVENUE

S TAYLOR DRIVE

GEORGIA AVENUE

S 26TH STREET

S 25TH STREET

S 24TH STREET

S 23RD STREET

S 22ND STREET

S 21ST STREET

S 20TH STREET

S 19TH STREET

S 17TH STREET

S 16TH STREET

S 15TH STREET

S 13TH STREET

S BUSINESS DRIVE / STH 28

BROADWAY AVENUE

ELM AVENUE

UNION AVENUE

1 2A 2B 2D 1 2C 2C 2C 2A 3 2C 2E 2A 2A 2A 2E 2C 2A

2

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	DETOUR	SHEET 192	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\027001_DT.DWG
LAYOUT NAME - 027001_dt

PLOT DATE : 7/29/2021 8:19 PM PLOT BY : ANDERSON, ERIC PLOT NAME :

2

DETOUR SIGN LEGEND

NOTE:

CTH PP/INDIANA AVENUE EASTBOUND TRAFFIC SHALL BE MAINTAINED ALONG CTH PP/INDIANA AVENUE AT ALL TIMES. CTH PP/INDIANA AVENUE WESTBOUND TRAFFIC SHALL BE MAINTAINED ALONG THE DETOUR ROUTE AS SHOWN.

ALL M05 AND M06 ARROW SIGNS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

① WEST
M3-4
24"X12"

COUNTY PP
M1-5A
24"X24"

DETOUR AHEAD
W20-2A

② DETOUR
M4-8
24"X12"

WEST
M3-4
24"X12"

COUNTY PP
M1-5A
24"X24"

③ END DETOUR
M4-8A
24"X18"

WEST
M3-4
24"X12"

COUNTY PP
M1-5A
24"X24"

Ⓐ
MO6-1
21"X21"

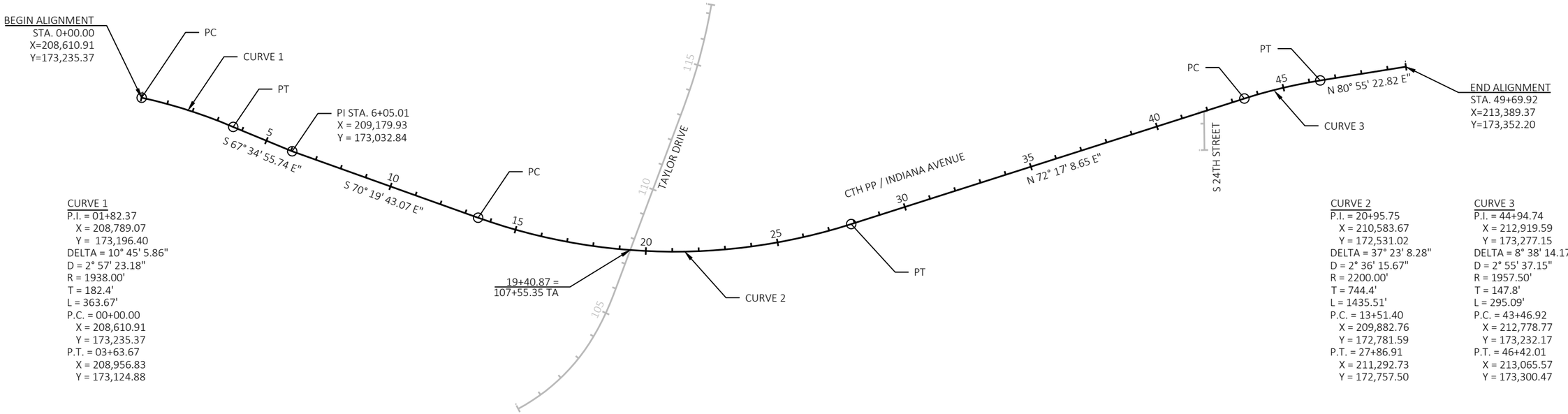
Ⓑ
MO6-1
21"X21"

Ⓒ
MO6-1
21"X21"

Ⓓ
MO5-1L
21"X21"

Ⓔ
MO5-1R
21"X21"

CTH PP / INDIANA AVENUE

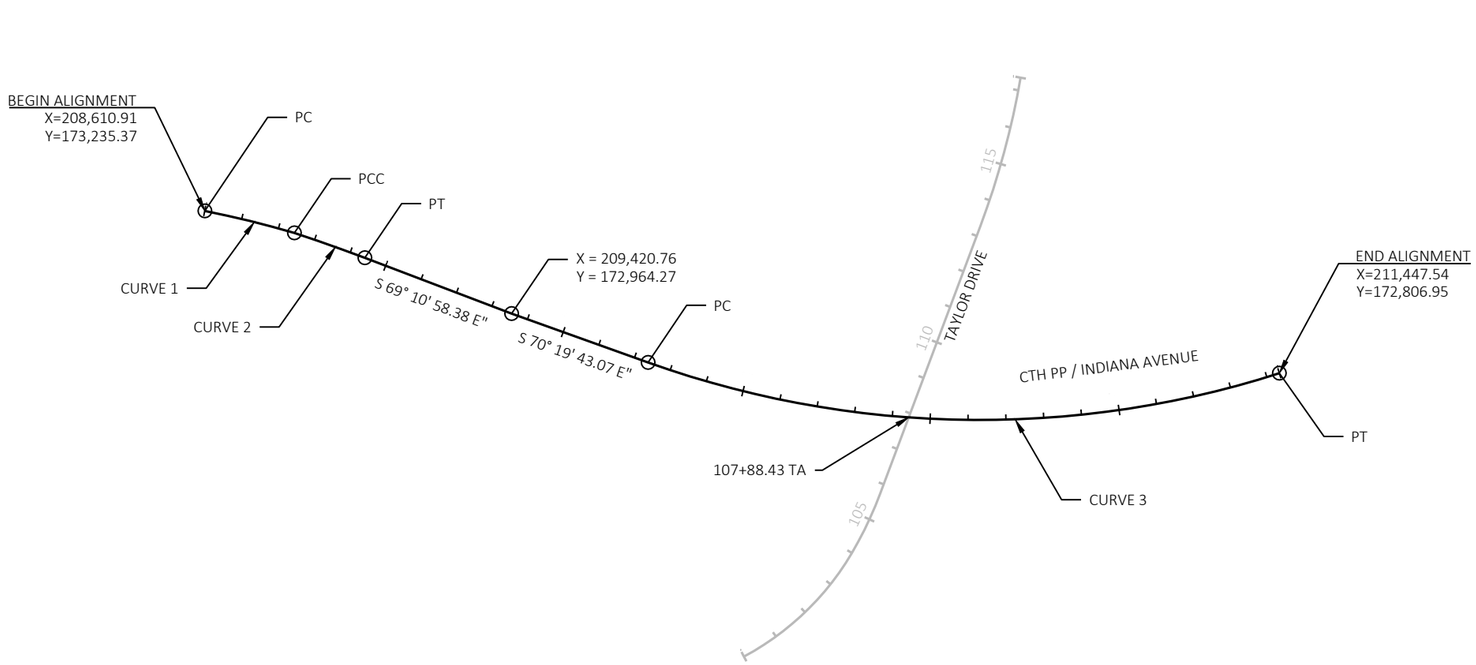


CURVE 1
P.I. = 01+82.37
X = 208,789.07
Y = 173,196.40
DELTA = 10° 45' 5.86"
D = 2° 57' 23.18"
R = 1938.00'
T = 182.4'
L = 363.67'
P.C. = 00+00.00
X = 208,610.91
Y = 173,235.37
P.T. = 03+63.67
X = 208,956.83
Y = 173,124.88

CURVE 2
P.I. = 20+95.75
X = 210,583.67
Y = 172,531.02
DELTA = 37° 23' 8.28"
D = 2° 36' 15.67"
R = 2200.00'
T = 744.4'
L = 1435.51'
P.C. = 13+51.40
X = 209,882.76
Y = 172,781.59
P.T. = 27+86.91
X = 211,292.73
Y = 172,757.50

CURVE 3
P.I. = 44+94.74
X = 212,919.59
Y = 173,277.15
DELTA = 8° 38' 14.17"
D = 2° 55' 37.15"
R = 1957.50'
T = 147.8'
L = 295.09'
P.C. = 43+46.92
X = 212,778.77
Y = 173,232.17
P.T. = 46+42.01
X = 213,065.57
Y = 173,300.47

WESTBOUND PGL



CURVE 1
P.I.
X = 208,730.45
Y = 173,211.57
DELTA = 5° 6' 58.97"
D = 2° 6' 1.03"
R = 2728.00'
T = 121.9'
L = 243.60'
P.C.
X = 208,610.91
Y = 173,235.37
P.C.C.
X = 208,847.38
Y = 173,177.20

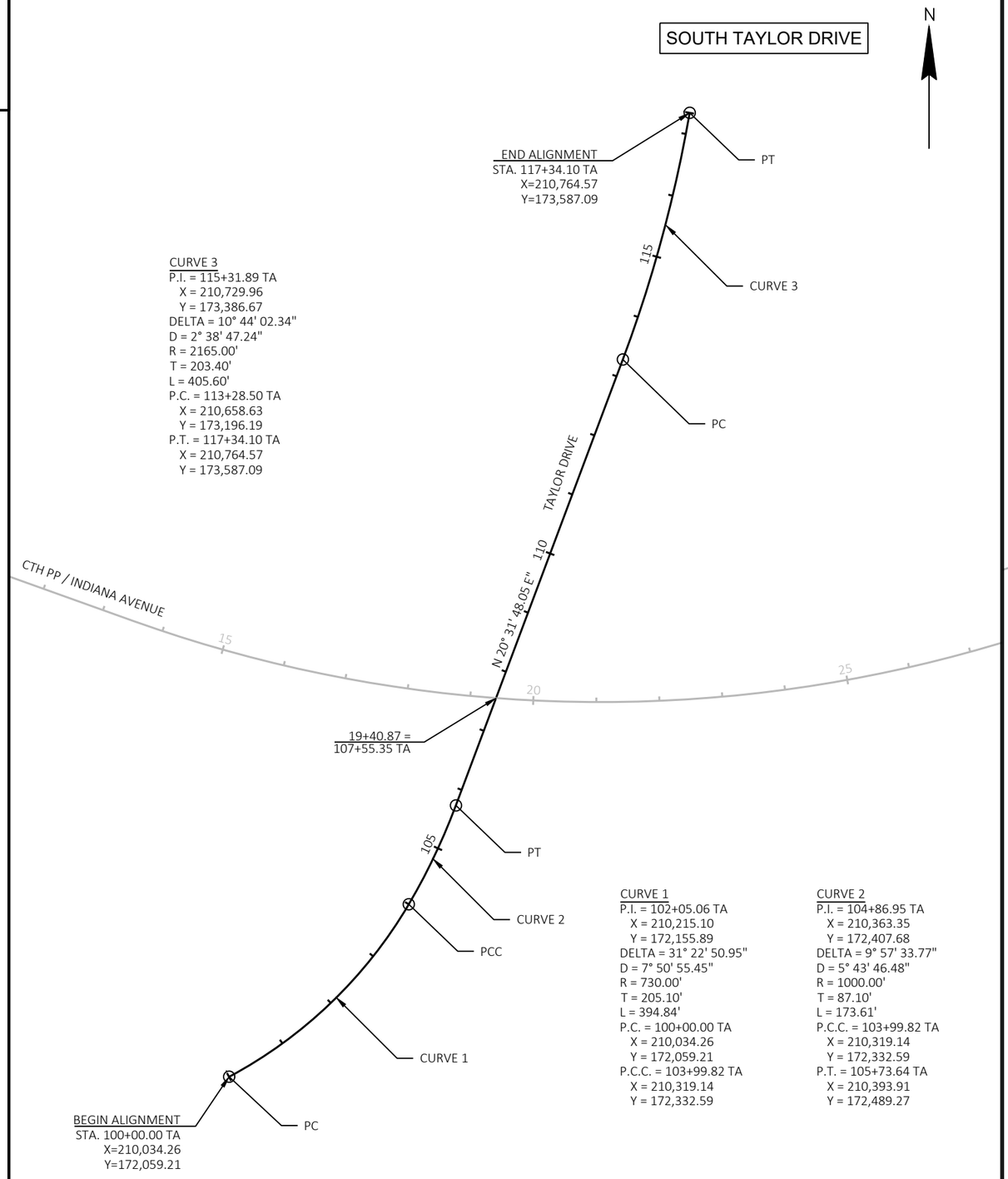
CURVE 2
P.I.
X = 208,941.09
Y = 173,146.43
DELTA = 2° 31' 21.57"
D = 1° 16' 44.76"
R = 4479.38'
T = 98.6'
L = 197.22'
P.C.C.
X = 208,847.38
Y = 173,177.20
P.T.
X = 209,033.35
Y = 173,111.57

CURVE 3
P.I.
X = 210,609.56
Y = 172,539.29
DELTA = 37° 23' 8.28"
D = 2° 12' 13.26"
R = 2600.00'
T = 879.7'
L = 1696.51'
P.C.
X = 209,781.21
Y = 172,835.41
P.T.
X = 211,447.54
Y = 172,806.95

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	ALIGNMENT DATA	SHEET 194	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027201_ad
PLOT DATE : 7/29/2021 8:20 PM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
WISDOT/CADDS SHEET 42

SOUTH TAYLOR DRIVE

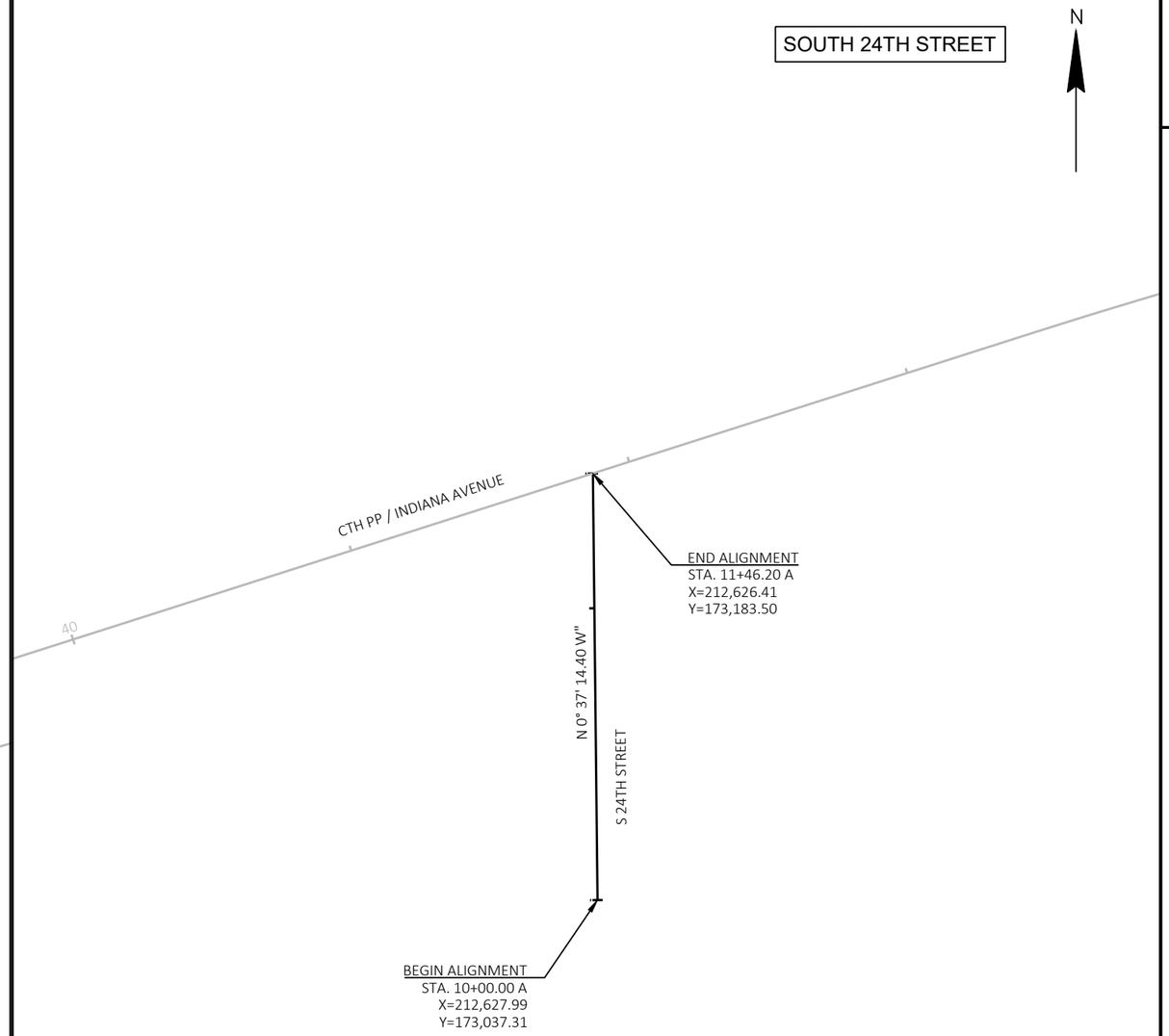


CURVE 3
P.I. = 115+31.89 TA
X = 210,729.96
Y = 173,386.67
DELTA = 10° 44' 02.34"
D = 2° 38' 47.24"
R = 2165.00'
T = 203.40'
L = 405.60'
P.C. = 113+28.50 TA
X = 210,658.63
Y = 173,196.19
P.T. = 117+34.10 TA
X = 210,764.57
Y = 173,587.09

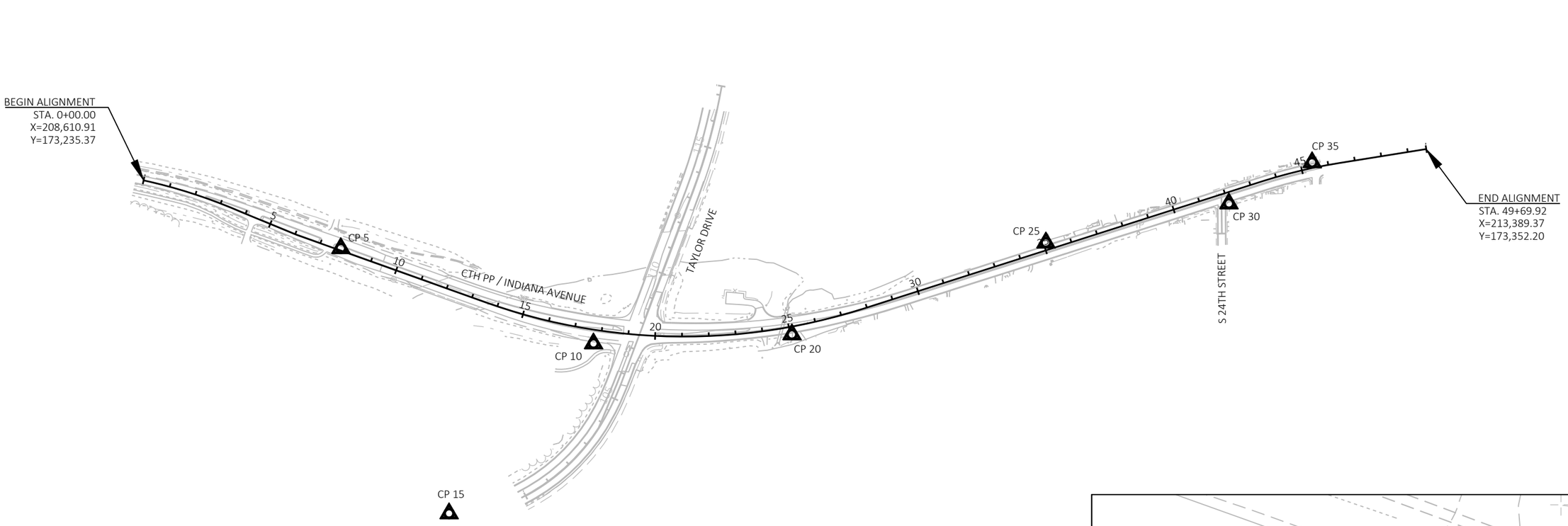
CURVE 1
P.I. = 102+05.06 TA
X = 210,215.10
Y = 172,155.89
DELTA = 31° 22' 50.95"
D = 7° 50' 55.45"
R = 730.00'
T = 205.10'
L = 394.84'
P.C. = 100+00.00 TA
X = 210,034.26
Y = 172,059.21
P.C.C. = 103+99.82 TA
X = 210,319.14
Y = 172,332.59

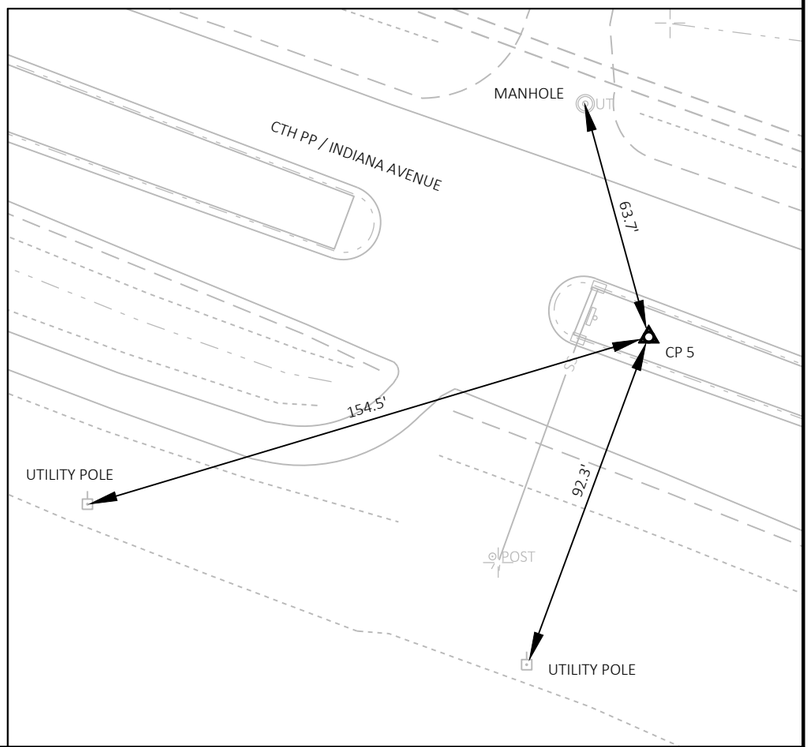
CURVE 2
P.I. = 104+86.95 TA
X = 210,363.35
Y = 172,407.68
DELTA = 9° 57' 33.77"
D = 5° 43' 46.48"
R = 1000.00'
T = 87.10'
L = 173.61'
P.C.C. = 103+99.82 TA
X = 210,319.14
Y = 172,332.59
P.T. = 105+73.64 TA
X = 210,393.91
Y = 172,489.27

SOUTH 24TH STREET

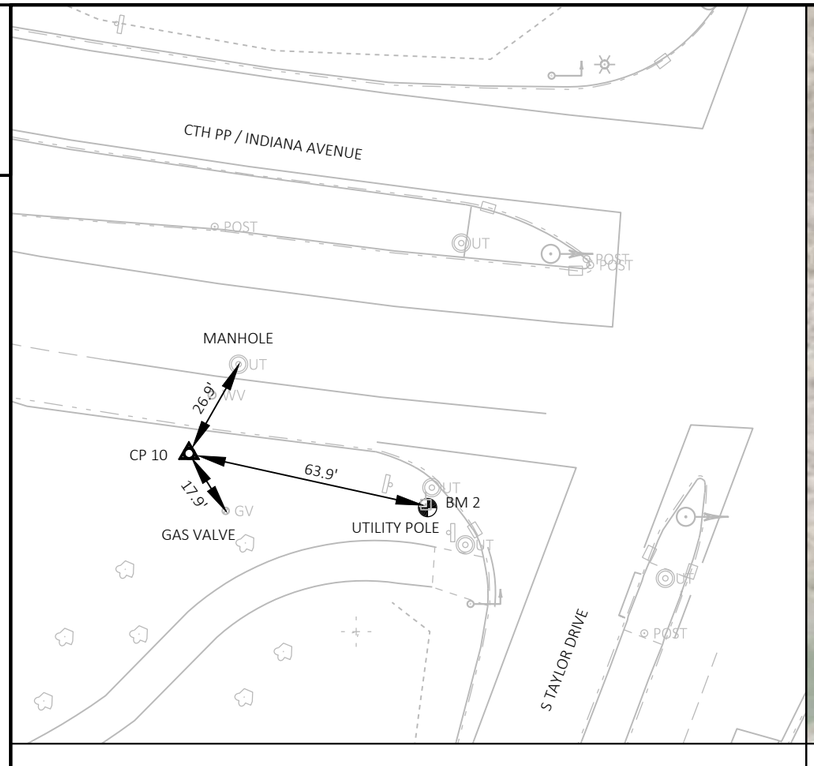


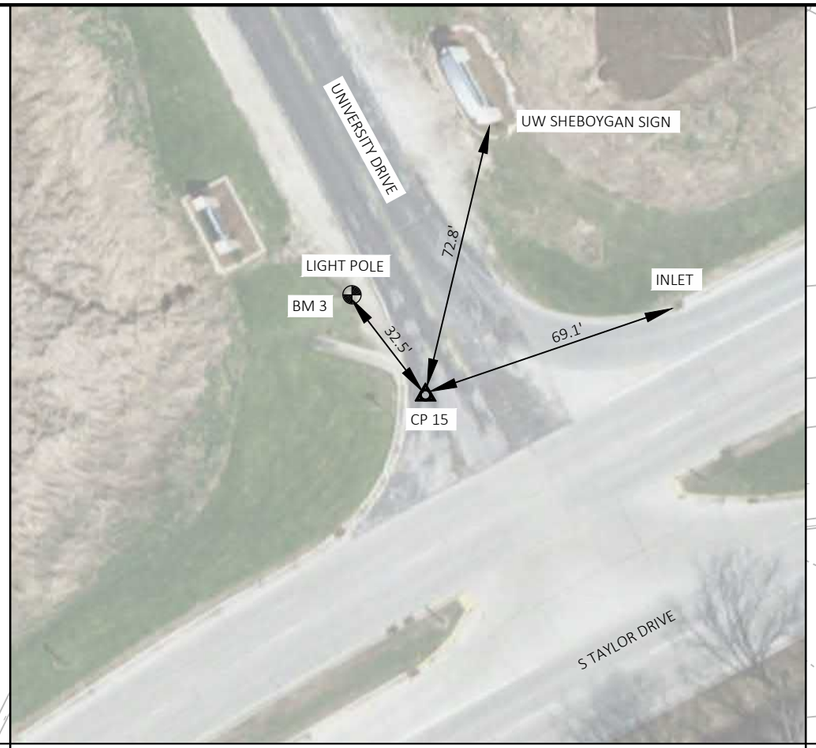
2

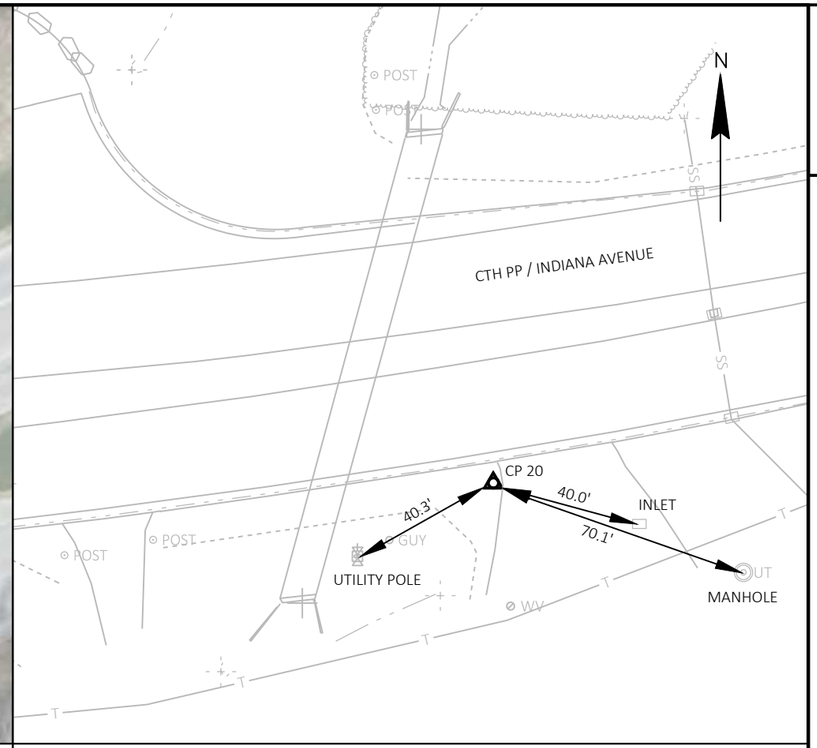


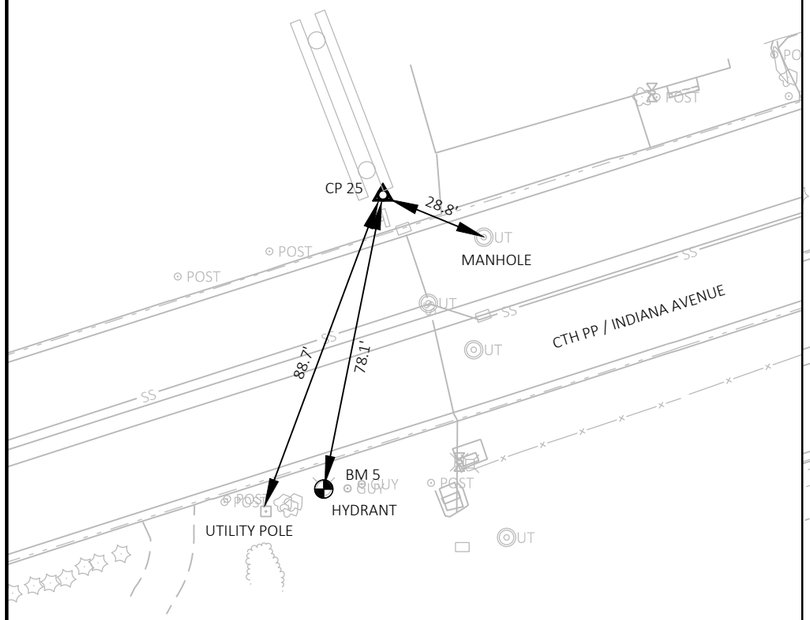


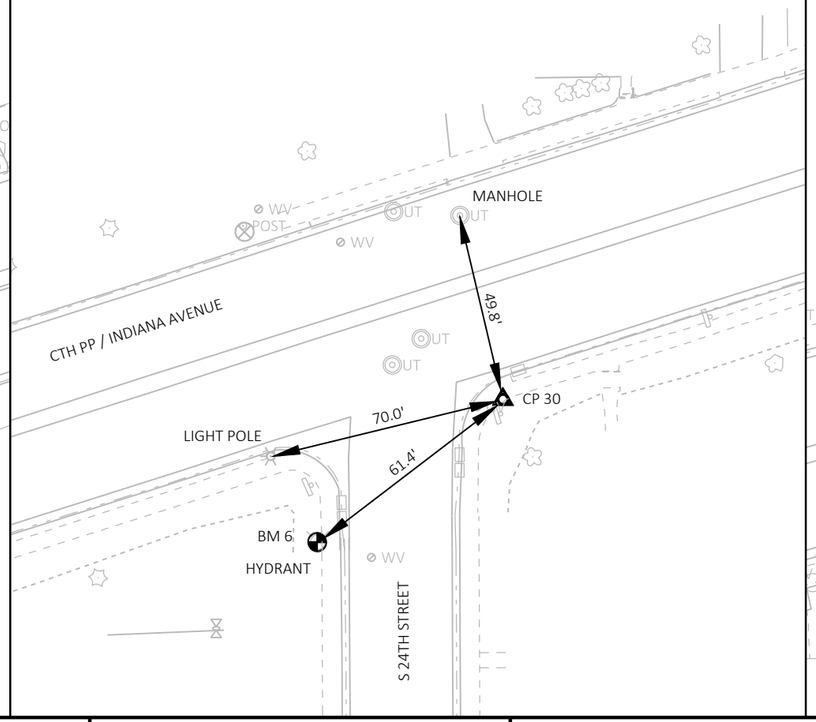
CONTROL POINT DATA TABLE						
CP NO.	STATION	OFFSET	DESCRIPTION	Y	X	ELEV.
5	7+77.76	8.69 LT	REBAR	172,982.84	209,345.53	596.88
10	17+76.28	51.10 RT	REBAR	172,627.43	210,286.48	598.35
15	14+53.75	790.02 RT	MAG NAIL	171,993.91	209,748.83	595.26
20	25+06.28	29.09 RT	SPIKE	172,660.75	211,025.95	593.67
25	35+09.10	27.32 LT	REBAR	173,003.26	211,972.38	604.77
30	42+02.98	41.34 RT	MAG NAIL	173,148.99	212,654.24	629.57
35	45+43.62	21.03 LT	MAG NAIL	173,303.09	212,964.49	625.31

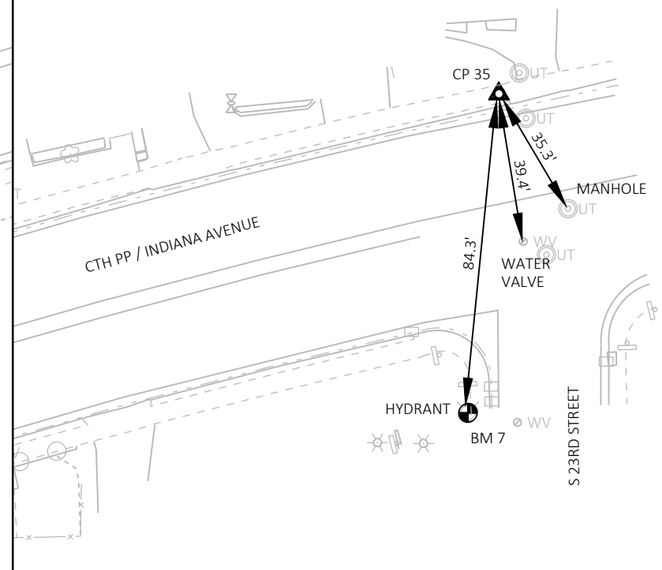












PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CONTROL POINT DATA	SHEET 197	E

4291-02-71

Line	Item	Item Description	Unit	Total	Qty
0002	201.0110	Clearing	SY	251.000	251.000
0004	201.0120	Clearing	ID	14.000	14.000
0006	201.0210	Grubbing	SY	251.000	251.000
0008	201.0220	Grubbing	ID	14.000	14.000
0010	203.0211.S	Abatement of Asbestos Containing Material (structure) 01. B-59-0048	EACH	1.000	1.000
0012	204.0100	Removing Concrete Pavement	SY	22,973.000	22,973.000
0014	204.0110	Removing Asphaltic Surface	SY	136.000	136.000
0016	204.0150	Removing Curb & Gutter	LF	1,419.000	1,419.000
0018	204.0155	Removing Concrete Sidewalk	SY	813.000	813.000
0020	204.0165	Removing Guardrail	LF	195.000	195.000
0022	204.0190	Removing Surface Drains	EACH	2.000	2.000
0024	204.0195	Removing Concrete Bases	EACH	16.000	16.000
0026	204.0220	Removing Inlets	EACH	32.000	32.000
0028	204.0245	Removing Storm Sewer (size) 01. 8-Inch	LF	29.000	29.000
0030	204.0245	Removing Storm Sewer (size) 02. 10-Inch	LF	83.000	83.000
0032	204.0245	Removing Storm Sewer (size) 03. 12-Inch	LF	900.000	900.000
0034	204.0245	Removing Storm Sewer (size) 04. 14-Inch	LF	80.000	80.000
0036	204.0245	Removing Storm Sewer (size) 05. 15-Inch	LF	45.000	45.000
0038	204.0245	Removing Storm Sewer (size) 06. 18-Inch	LF	22.000	22.000
0040	204.0245	Removing Storm Sewer (size) 07. 30-Inch	LF	14.000	14.000
0042	204.0245	Removing Storm Sewer (size) 08. 36-Inch	LF	46.000	46.000
0044	204.0280	Sealing Pipes	EACH	7.000	7.000
0046	204.9060.S	Removing (item description) 01. Apron Endwalls	EACH	11.000	11.000
0048	204.9060.S	Removing (item description) 02. Street Light Poles	EACH	7.000	7.000
0050	205.0100	Excavation Common	CY	18,561.000	18,561.000
0052	213.0100	Finishing Roadway (project) 01. 4291-02-71	EACH	1.000	1.000
0054	305.0110	Base Aggregate Dense 3/4-Inch	TON	61.000	61.000
0056	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	12,980.000	12,980.000
0058	305.0130	Base Aggregate Dense 3-Inch	TON	5,790.000	5,790.000
0060	311.0110	Breaker Run	TON	10,555.000	10,555.000
0062	415.0080	Concrete Pavement 8-Inch	SY	9,388.000	9,388.000
0064	415.0210	Concrete Pavement Gaps	EACH	1.000	1.000
0066	415.0410	Concrete Pavement Approach Slab	SY	578.000	578.000
0068	415.1080	Concrete Pavement HES 8-Inch	SY	200.000	200.000
0070	415.4100	Concrete Pavement Joint Filling	SY	10,911.000	10,911.000
0072	416.0160	Concrete Driveway 6-Inch	SY	575.000	575.000
0074	416.0260	Concrete Driveway HES 6-Inch	SY	75.000	75.000
0076	416.0610	Drilled Tie Bars	EACH	101.000	101.000
0078	416.0620	Drilled Dowel Bars	EACH	60.000	60.000
0080	416.1010	Concrete Surface Drains	CY	3.000	3.000
0082	455.0605	Tack Coat	GAL	1,025.000	1,025.000
0084	460.2000	Incentive Density HMA Pavement	DOL	1,580.000	1,580.000
0086	460.6223	HMA Pavement 3 MT 58-28 S	TON	1,435.000	1,435.000
0088	460.6424	HMA Pavement 4 MT 58-28 H	TON	1,025.000	1,025.000
0090	465.0105	Asphaltic Surface	TON	575.000	575.000
0092	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	72.000	72.000
0094	465.0125	Asphaltic Surface Temporary	TON	333.000	333.000
0096	502.0100	Concrete Masonry Bridges	CY	122.000	122.000
0098	502.3200	Protective Surface Treatment	SY	760.000	760.000

4291-02-71

Line	Item	Item Description	Unit	Total	Qty
0100	502.3210	Pigmented Surface Sealer	SY	380.000	380.000
0102	502.4205	Adhesive Anchors No. 5 Bar	EACH	56.000	56.000
0104	502.4206	Adhesive Anchors No. 6 Bar	EACH	422.000	422.000
0106	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	11,060.000	11,060.000
0108	509.1200	Curb Repair	LF	697.000	697.000
0110	509.1500	Concrete Surface Repair	SF	658.000	658.000
0112	509.9020.S	Epoxy Crack Sealing	LF	36.000	36.000
0114	509.9050.S	Cleaning Parapets	LF	516.000	516.000
0116	513.9006.S	Removing and Resetting Tubular Railing (structure) 01. B-59-0048	EACH	1.000	1.000
0118	520.8000	Concrete Collars for Pipe	EACH	13.000	13.000
0120	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	9.000	9.000
0122	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	3.000	3.000
0124	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000
0126	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	1.000	1.000
0128	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	6,578.000	6,578.000
0130	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	1,106.000	1,106.000
0132	601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	LF	186.000	186.000
0134	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	2,227.000	2,227.000
0136	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	84.000	84.000
0138	601.0600	Concrete Curb Pedestrian	LF	89.000	89.000
0140	602.0410	Concrete Sidewalk 5-Inch	SF	10,446.000	10,446.000
0142	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	220.000	220.000
0144	602.0615	Curb Ramp Detectable Warning Field Radial Natural Patina	SF	118.000	118.000
0146	603.8000	Concrete Barrier Temporary Precast Delivered	LF	351.000	351.000
0148	603.8125	Concrete Barrier Temporary Precast Installed	LF	351.000	351.000
0150	606.0200	Riprap Medium	CY	36.000	36.000
0152	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	1,134.000	1,134.000
0154	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	250.000	250.000
0156	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	21.000	21.000
0158	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	13.000	13.000
0160	608.0436	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	LF	82.000	82.000
0162	611.0530	Manhole Covers Type J	EACH	1.000	1.000
0164	611.0535	Manhole Covers Type J-Special	EACH	1.000	1.000
0166	611.0624	Inlet Covers Type H	EACH	25.000	25.000
0168	611.0627	Inlet Covers Type HM	EACH	6.000	6.000
0170	611.0639	Inlet Covers Type H-S	EACH	11.000	11.000
0172	611.0654	Inlet Covers Type V	EACH	1.000	1.000
0174	611.2004	Manholes 4-FT Diameter	EACH	2.000	2.000
0176	611.2005	Manholes 5-FT Diameter	EACH	3.000	3.000
0178	611.3004	Inlets 4-FT Diameter	EACH	8.000	8.000
0180	611.3230	Inlets 2x3-FT	EACH	33.000	33.000
0182	611.8110	Adjusting Manhole Covers	EACH	6.000	6.000
0184	611.8115	Adjusting Inlet Covers	EACH	3.000	3.000
0186	611.8120.S	Cover Plates Temporary	EACH	2.000	2.000
0188	611.9705	Salvaged Manhole Covers	EACH	1.000	1.000
0190	611.9710	Salvaged Inlet Covers	EACH	3.000	3.000
0192	612.0106	Pipe Underdrain 6-Inch	LF	600.000	600.000
0194	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	1.000	1.000
0196	614.2300	MGS Guardrail 3	LF	68.000	68.000

4291-02-71

Line	Item	Item Description	Unit	Total	Qty
0198	614.2500	MGS Thrie Beam Transition	LF	78.000	78.000
0200	614.2610	MGS Guardrail Terminal EAT	EACH	2.000	2.000
0202	619.1000	Mobilization	EACH	1.000	1.000
0204	620.0300	Concrete Median Sloped Nose	SF	417.000	417.000
0206	623.0200	Dust Control Surface Treatment	SY	28,507.000	28,507.000
0208	624.0100	Water	MGAL	261.000	261.000
0210	625.0100	Topsoil	SY	12,773.000	12,773.000
0212	628.1504	Silt Fence	LF	4,662.000	4,662.000
0214	628.1520	Silt Fence Maintenance	LF	466.000	466.000
0216	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
0218	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0220	628.2004	Erosion Mat Class I Type B	SY	1,350.000	1,350.000
0222	628.2008	Erosion Mat Urban Class I Type B	SY	11,446.000	11,446.000
0224	628.7005	Inlet Protection Type A	EACH	44.000	44.000
0226	628.7010	Inlet Protection Type B	EACH	7.000	7.000
0228	628.7015	Inlet Protection Type C	EACH	55.000	55.000
0230	628.7020	Inlet Protection Type D	EACH	11.000	11.000
0232	628.7560	Tracking Pads	EACH	7.000	7.000
0234	628.7570	Rock Bags	EACH	303.000	303.000
0236	629.0210	Fertilizer Type B	CWT	8.000	8.000
0238	630.0130	Seeding Mixture No. 30	LB	230.000	230.000
0240	630.0200	Seeding Temporary	LB	303.000	303.000
0242	630.0500	Seed Water	MGAL	253.000	253.000
0244	633.5200	Markers Culvert End	EACH	14.000	14.000
0246	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	50.000	50.000
0248	634.0808	Posts Tubular Steel 2x2-Inch X 8-FT	EACH	1.000	1.000
0250	637.2210	Signs Type II Reflective H	SF	457.760	457.760
0252	637.2215	Signs Type II Reflective H Folding	SF	20.720	20.720
0254	638.2102	Moving Signs Type II	EACH	6.000	6.000
0256	638.2602	Removing Signs Type II	EACH	54.000	54.000
0258	638.3000	Removing Small Sign Supports	EACH	40.000	40.000
0260	638.4000	Moving Small Sign Supports	EACH	2.000	2.000
0262	642.5001	Field Office Type B	EACH	1.000	1.000
0264	643.0300	Traffic Control Drums	DAY	33,250.000	33,250.000
0266	643.0420	Traffic Control Barricades Type III	DAY	4,070.000	4,070.000
0268	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	156.000	156.000
0270	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	156.000	156.000
0272	643.0705	Traffic Control Warning Lights Type A	DAY	6,826.000	6,826.000
0274	643.0715	Traffic Control Warning Lights Type C	DAY	5,315.000	5,315.000
0276	643.0800	Traffic Control Arrow Boards	DAY	244.000	244.000
0278	643.0900	Traffic Control Signs	DAY	15,517.000	15,517.000
0280	643.0920	Traffic Control Covering Signs Type II	EACH	10.000	10.000
0282	643.5000	Traffic Control	EACH	1.000	1.000
0284	644.1410	Temporary Pedestrian Surface Asphalt	SF	4,463.000	4,463.000
0286	644.1601	Temporary Pedestrian Curb Ramp	DAY	206.000	206.000
0288	644.1810	Temporary Pedestrian Barricade	LF	595.000	595.000
0290	645.0111	Geotextile Type DF Schedule A	SY	178.000	178.000
0292	645.0120	Geotextile Type HR	SY	145.000	145.000
0294	645.0220	Geogrid Type SR	SY	13,532.000	13,532.000

4291-02-71

Line	Item	Item Description	Unit	Total	Qty
0296	646.1005	Marking Line Paint 4-Inch	LF	14,335.000	14,335.000
0298	646.3005	Marking Line Paint 8-Inch	LF	2,055.000	2,055.000
0300	646.5005	Marking Arrow Paint	EACH	29.000	29.000
0302	646.5105	Marking Word Paint	EACH	5.000	5.000
0304	646.5205	Marking Symbol Paint	EACH	17.000	17.000
0306	646.6105	Marking Stop Line Paint 18-Inch	LF	194.000	194.000
0308	646.7105	Marking Diagonal Paint 12-Inch	LF	1,472.000	1,472.000
0310	646.7205	Marking Chevron Paint 24-Inch	LF	341.000	341.000
0312	646.7405	Marking Crosswalk Paint Transverse Line 6-Inch	LF	661.000	661.000
0314	646.8105	Marking Curb Paint	LF	80.000	80.000
0316	646.8205	Marking Island Nose Paint	EACH	8.000	8.000
0318	646.9000	Marking Removal Line 4-Inch	LF	150.000	150.000
0320	649.0105	Temporary Marking Line Paint 4-Inch	LF	5,793.000	5,793.000
0322	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	23,844.000	23,844.000
0324	649.0205	Temporary Marking Line Paint 8-Inch	LF	189.000	189.000
0326	649.0250	Temporary Marking Line Removable Tape 8-Inch	LF	132.000	132.000
0328	649.0505	Temporary Marking Arrow Paint	EACH	3.000	3.000
0330	649.0550	Temporary Marking Arrow Removable Tape	EACH	3.000	3.000
0332	649.0805	Temporary Marking Stop Line Paint 18-Inch	LF	11.000	11.000
0334	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	151.000	151.000
0336	650.4000	Construction Staking Storm Sewer	EACH	60.000	60.000
0338	650.4500	Construction Staking Subgrade	LF	4,772.000	4,772.000
0340	650.5000	Construction Staking Base	LF	1,891.000	1,891.000
0342	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	3,121.000	3,121.000
0344	650.7000	Construction Staking Concrete Pavement	LF	2,881.000	2,881.000
0346	650.8500	Construction Staking Electrical Installations (project) 01. 4291-02-71	LS	1.000	1.000
0348	650.9000	Construction Staking Curb Ramps	EACH	16.000	16.000
0350	650.9910	Construction Staking Supplemental Control (project) 01. 4291-02-71	LS	1.000	1.000
0352	650.9920	Construction Staking Slope Stakes	LF	3,887.000	3,887.000
0354	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	5,875.000	5,875.000
0356	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	2,125.000	2,125.000
0358	653.0140	Pull Boxes Steel 24x42-Inch	EACH	25.000	25.000
0360	653.0905	Removing Pull Boxes	EACH	17.000	17.000
0362	654.0101	Concrete Bases Type 1	EACH	1.000	1.000
0364	654.0102	Concrete Bases Type 2	EACH	4.000	4.000
0366	654.0113	Concrete Bases Type 13	EACH	4.000	4.000
0368	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	1.000	1.000
0370	655.0230	Cable Traffic Signal 5-14 AWG	LF	922.000	922.000
0372	655.0240	Cable Traffic Signal 7-14 AWG	LF	410.000	410.000
0374	655.0260	Cable Traffic Signal 12-14 AWG	LF	1,585.000	1,585.000
0376	655.0263	Cable Traffic Signal 15-10 AWG	LF	245.000	245.000
0378	655.0320	Cable Type UF 2-10 AWG Grounded	LF	1,233.000	1,233.000
0380	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	1,987.000	1,987.000
0382	655.0610	Electrical Wire Lighting 12 AWG	LF	4,161.000	4,161.000
0384	655.0615	Electrical Wire Lighting 10 AWG	LF	13,499.000	13,499.000
0386	655.0620	Electrical Wire Lighting 8 AWG	LF	976.000	976.000
0388	655.0630	Electrical Wire Lighting 4 AWG	LF	8,862.000	8,862.000
0390	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. CTH PP and Taylor Drive	LS	1.000	1.000
0392	657.0100	Pedestal Bases	EACH	1.000	1.000

4291-02-71

Line	Item	Item Description	Unit	Total	Qty
0394	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	4.000	4.000
0396	657.0310	Poles Type 3	EACH	4.000	4.000
0398	657.0360	Poles Type 13	EACH	4.000	4.000
0400	657.0405	Traffic Signal Standards Aluminum 3.5-FT	EACH	1.000	1.000
0402	657.0555	Monotube Arms 55-FT	EACH	4.000	4.000
0404	657.0609	Luminaire Arms Single Member 4-Inch Clamp 6-FT	EACH	4.000	4.000
0406	657.0806	Luminaire Arms Steel 6-FT	EACH	4.000	4.000
0408	658.0173	Traffic Signal Face 3S 12-Inch	EACH	10.000	10.000
0410	658.0174	Traffic Signal Face 4S 12-Inch	EACH	8.000	8.000
0412	658.0175	Traffic Signal Face 5S 12-Inch	EACH	2.000	2.000
0414	658.0416	Pedestrian Signal Face 16-Inch	EACH	4.000	4.000
0416	658.0500	Pedestrian Push Buttons	EACH	5.000	5.000
0418	658.5069	Signal Mounting Hardware (location) 01. CTH PP & Taylor Drive	LS	1.000	1.000
0420	659.1125	Luminaires Utility LED C	EACH	8.000	8.000
0422	661.0200	Temporary Traffic Signals for Intersections (location) 01. CTH PP & Taylor Drive	LS	1.000	1.000
0424	690.0150	Sawing Asphalt	LF	2,614.000	2,614.000
0426	690.0250	Sawing Concrete	LF	4,448.000	4,448.000
0428	715.0502	Incentive Strength Concrete Structures	DOL	732.000	732.000
0430	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	2,291.000	2,291.000
0432	740.0440	Incentive IRI Ride	DOL	2,769.000	2,769.000
0434	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
0436	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,320.000	1,320.000
0438	SPV.0035	Special 01. Concrete Surface Repair Corrosion Inhibiting Admixture	CY	13.000	13.000
0440	SPV.0060	Special 01. Storm Sewer Cut-In	EACH	10.000	10.000
0442	SPV.0060	Special 02. Adjusting Valve Box	EACH	8.000	8.000
0444	SPV.0060	Special 03. Inlet Cover Type DW	EACH	3.000	3.000
0446	SPV.0060	Special 04. Utility Line Opening (ULO)	EACH	4.000	4.000
0448	SPV.0060	Special 05. Remove Traffic Signals CTH PP & Taylor Drive	EACH	1.000	1.000
0450	SPV.0060	Special 06. Traffic Signal Controller and Cabinet, CTH PP & Taylor Drive	EACH	1.000	1.000
0452	SPV.0060	Special 07. Video Detection System, CTH PP & Taylor Drive	EACH	1.000	1.000
0454	SPV.0060	Special 08. Emergency Vehicle Preemption System, CTH PP & Taylor Drive	EACH	1.000	1.000
0456	SPV.0060	Special 09. Light Pole Concrete Base Type A	EACH	22.000	22.000
0458	SPV.0060	Special 10. Light Pole Concrete Base Type B	EACH	16.000	16.000
0460	SPV.0060	Special 11. Path Lighting Assembly 14-Foot Pole	EACH	21.000	21.000
0462	SPV.0060	Special 12. Road Lighting Assembly 30-Foot Pole	EACH	16.000	16.000
0464	SPV.0060	Special 13. Salvage and Relocate Existing Lighting Pole	EACH	1.000	1.000
0466	SPV.0060	Special 14. Intercept Existing Conduit	EACH	2.000	2.000
0468	SPV.0060	Special 15. Cleaning and Painting Bearings	EACH	60.000	60.000
0470	SPV.0060	Special 16. Steel Expansion Joint Cover Plate Repairs	EACH	2.000	2.000
0472	SPV.0060	Special 17. Adjusting Sanitary Manholes	EACH	4.000	4.000
0474	SPV.0060	Special 18. Reconstruct Existing Sanitary Sewer Structure	EACH	8.000	8.000
0476	SPV.0060	Special 19. 4-Foot Sanitary Sewer Manhole	EACH	1.000	1.000
0478	SPV.0060	Special 20. Remove and Reset Decorative Boulders	EACH	5.000	5.000
0480	SPV.0060	Special 21. 12-Inch Gate Valve and Valve Box	EACH	3.000	3.000
0482	SPV.0060	Special 22. 6-Inch Gate Valve and Valve Box	EACH	6.000	6.000
0484	SPV.0060	Special 23. Fire Hydrant Assembly	EACH	5.000	5.000
0486	SPV.0060	Special 24. Service Connection	EACH	10.000	10.000
0488	SPV.0060	Special 25. South Taylor Drive Crossing	EACH	1.000	1.000
0490	SPV.0060	Special 26. Box Culvert Crossing	EACH	1.000	1.000

4291-02-71

Line	Item	Item Description	Unit	Total	Qty
0492	SPV.0090	Special 01. Storm Sewer PVC Pipe 10-Inch	LF	10.000	10.000
0494	SPV.0090	Special 02. Storm Sewer Pipe PVC 14-Inch	LF	19.000	19.000
0496	SPV.0090	Special 03. Fence Chain Link Polymer-Coated 6-Foot	LF	50.000	50.000
0498	SPV.0090	Special 04. Strip Seal Gland Replacement	LF	288.000	288.000
0500	SPV.0090	Special 05. Sidewalk Cover Plate	LF	32.000	32.000
0502	SPV.0090	Special 06. Televising Sanitary Sewer	LF	693.000	693.000
0504	SPV.0090	Special 07. Sanitary Sewer Cured-In-Place Liner	LF	693.000	693.000
0506	SPV.0090	Special 08. Sanitary Sewer 10-Inch	LF	20.000	20.000
0508	SPV.0090	Special 09. Sanitary Sewer Spot Repair	LF	100.000	100.000
0510	SPV.0090	Special 10. 12-Inch PVC Water Main	LF	2,368.000	2,368.000
0512	SPV.0090	Special 11. 8-Inch PVC Water Main	LF	14.000	14.000
0514	SPV.0090	Special 12. 6-Inch PVC Water Main	LF	149.000	149.000
0516	SPV.0090	Special 13. Water Service	LF	324.000	324.000

CLEARING AND GRUBBING ITEMS

CATEGORY	STATION - STATION	201.0110 CLEARING SY	201.0120 CLEARING ID	201.0210 GRUBBING SY	201.0220 GRUBBING ID
0020	6+16 - 12+50	--	--	--	--
	12+50 - 20+54	--	--	--	--
	20+54 - 30+00	251	--	251	--
	30+00 - 44+27	--	--	--	--
	0020 TOTALS	251	--	251	--
0010	6+16 - 12+50	--	--	--	--
	12+50 - 20+54	--	--	--	--
	20+54 - 30+00	--	14	--	14
	30+00 - 44+27	--	--	--	--
	0010 TOTALS	--	14	--	14
	GRAND TOTALS	251	14	251	14

REMOVING CONCRETE PAVEMENT

CATEGORY	STATION - STATION	204.0100* STAGE 1 SY	STAGE 2 SY	STAGE 3 SY
0010	6+16 - 12+50	0	587	702
	12+50 - 20+54	25	4,345	2,659
	20+54 - 30+00	4,439	2,226	0
	30+00 - 44+27	5,027	2,821	0
	CONCRETE DRIVEWAYS	80	43	0
	SUB - TOTALS	9,572	10,023	3,361
	TOTAL		22,956	

NOTE: REMOVING CURB & GUTTER WITHIN CONSTRCUTION LIMITS IS INCLUDED IN REMOVING PAVEMENT QUANTITY BECAUSE CURB AND GUTTER IS ADJACENT TO CONCRETE PAVEMENT.

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

REMOVING ASPHALTIC SURFACE

CATEGORY	STATION - STATION	204.0110 STAGE 1 SY	STAGE 5 SY
0010	6+16 - 12+50	7	129
	12+50 - 20+54	0	0
	20+54 - 30+00	0	0
	30+00 - 44+27	0	0
	CONCRETE DRIVEWAYS	0	0
	SUB - TOTALS	7	129
	TOTAL		136

REMOVING CONCRETE SIDEWALK

CATEGORY	STATION - STATION	204.0155 STAGE 1 SY	STAGE 2 SY	STAGE 3 SY
0010	6+16 - 12+50	0	0	0
	12+50 - 20+54	35	166	14
	20+54 - 30+00	293	0	0
	30+00 - 44+27	145	160	0
	SUB - TOTALS	473	327	14
	TOTAL		813	

REMOVING GUARDRAIL

CATEGORY	STATION - STATION	204.0165 STAGE 2 LF	STAGE 3 LF
0020	6+16 - 12+50	---	---
	12+50 - 20+54	---	99
	20+54 - 30+00	---	---
	30+00 - 44+27	---	---
	SUB - TOTALS	0	99
	0020 TOTAL		99
0010	6+16 - 12+50	96	---
	12+50 - 20+54	---	---
	20+54 - 30+00	---	---
	30+00 - 44+27	---	---
	SUB - TOTALS	96	0
	0010 TOTAL		96
	GRAND TOTAL		195

REMOVING SURFACE DRAINS

CATEGORY	STATION - STATION	204.0190 STAGE 2 EACH	STAGE 3 EACH
0020	6+16 - 12+50	---	---
	12+50 - 20+54	---	1
	20+54 - 30+00	---	---
	30+00 - 44+27	---	---
	SUB - TOTALS	0	1
	0020 TOTAL		1
0010	6+16 - 12+50	1	---
	12+50 - 20+54	---	---
	20+54 - 30+00	---	---
	30+00 - 44+27	---	---
	SUB - TOTALS	1	0
	0010 TOTAL		1
	GRAND TOTAL		2

REMOVING STREET LIGHT POLES

CATEGORY	LOCATION STATION	OFFSET		204.9060.S REMOVING STREET LIGHT POLES EACH
0010	18+38.5	56'	RT	1
	18+72.2	64'	LT	1
	19+84.0	36'	RT	1
	20+14.9	69'	LT	1
	22+05.6	28'	RT	1
	23+53.9	58'	LT	1
	41+40.0	37'	RT	1
				7

FINISHING ROADWAY

CATEGORY	PROJECT	213.0100 4291-02-71 EACH
0020	4291-02-71	1
	TOTAL	1

REMOVING CONCRETE BASES

CATEGORY		BASE NO.	STATION	LOCATION	204.0195 EACH
0010	CTH PP & TAYLOR DRIVE	EXCB1	108+40 TA	75 LT	1
		EXSB1	108+25 TA	62 LT	1
		EXSB2	108+32 TA	6 LT	1
		EXSB3	108+75 TA	37 RT	1
		EXSB4	20+36	60 LT	1
		EXSB5	20+34	8 LT	1
		EXSB6	20+13	8 LT	1
		EXSB7	20+15	32 RT	1
		EXSB8	19+99	35 RT	1
		EXSB9	106+63 TA	31 RT	1
		EXSB10	106+63 TA	20 LT	1
		EXSB11	106+96 TA	20 LT	1
		EXSB12	106+53 TA	65 LT	1
		EXSB13	18+29	51 RT	1
		EXSB14	18+63	14 LT	1
		EXSB15	18+58	60 LT	1
				TOTAL	16

EARTHWORK SUMMARY

CATEGORY	LOCATION	STA	TO	STA	(C) CUT CY	(E) EXCAVATION BELOW SUBGRADE CY	(2) 205.0100* EXCAVATION COMMON CY	(S) SALVAGED/ UNUSABLE PAVEMENT MATERIAL CY	(4) AVAILABLE MATERIAL CY	(5) 0% REDUCED EBS IN FILL CY	(6) 130.0% EXPANDED EBS BACKFILL CY	UNEXPANDED FILL CY	(7) 100.0% UNDISTRIBUTED 311.0110 BREAKER RUN TON***	(8) ** 130.00% EXPANDED FILL CY	(9) MASS ORDINATE EXCESS (SHORTAGE) CY
0020	CTH PP / INDIANA AVENUE	6+16	-	12+50	909	318	909	322	587	--	414	258	744	335	251
		12+50	-	20+54	3,114	1,090	3,114	1,296	1,818	--	1,417	309	2,550	402	1,416
		20+54	-	30+00	--	1,195	--	--	--	--	1,553	0	2,795	--	--
		30+00	-	44+27	--	1,343	--	--	--	--	1,746	0	3,143	--	--
	TAYLOR DRIVE	106+02	-	107+30	908	318	908	311	597	--	413	--	744	--	597
		108+16	-	108+68	479	168	479	148	331	--	218	--	392	--	331
	S 24TH STREET	10+50	-	11+30	--	80	--	--	--	--	104	--	187	--	--
	0020 TOTAL				5,410		9,921	2,078	3,332	--	5,864	567	10,555	737	2,595
0010	CTH PP / INDIANA AVENUE	6+16	-	12+50	--	--	--	--	--	--	--	0	--	--	--
		12+50	-	20+54	--	--	--	--	--	--	--	0	--	--	--
		20+54	-	30+00	3,413	--	3,413	1,666	1,747	--	--	2499	--	3,249	(1,502)
		30+00	-	44+27	3,837	--	3,837	1,871	1,966	--	--	39	--	51	1,916
	TAYLOR DRIVE	106+02	-	107+30	--	--	--	--	--	--	--	--	--	--	--
		108+16	-	108+68	--	--	--	--	--	--	--	--	--	--	--
	S 24TH STREET	10+50	-	11+30	228	--	228	92	136	--	--	--	--	--	136
	0010 TOTAL				7,478	--	7,478	3,629	3,849	--	--	2,538	--	3,299	550
	GRAND TOTAL				12,888	--	17,399	5,706	7,182	--	5,864	3,105	10,555	4,037	3,145

NOTES

1) EXCAVATION BELOW SUBGRADE (E) = 35% OF CUT (C) ON CTH PP / INDIANA AVENUE AND SIDEROADS
2) EXCAVATION COMMON IS THE SUM OF THE CUT (C) AND EXCAVATION BELOW SUBGRADE.
3) EBS EXCAVATION (E) TO BE BACKFILLED WITH BREAKER RUN.
4) AVAILABLE MATERIAL = CUT (C) - (S).
5) SOILS REMOVED AS EBS MUST BE WASTED OFFSITE AND NOT REUSED AS FILL.
6) EXPANDED EBS BACKFILL. THIS IS TO BE FILLED WITH BREAKER RUN. EBS EXPANSION FACTOR 1.30.
7) UNDISTRIBUTED QUANTITY OF BREAKER RUN USED TO FILL EBS.
8) EXPANDED FILL = {UNEXPANDED FILL * 130% FILL FACTOR}.
9) MASS ORDINATE =AVAILABLE MATERIAL (5) - EXPANDED FILL (10) = BORROW AND SELECT BORROW OR WASTE
10) BORROW = MASS ORDINATE (SHORTAGE) (11) - SELECT BORROW

* ADDITIONAL QUANTITIES LISTED ELSEWHERE
** FILL EXPANSION FACTOR = 1.30
*** CY TO TON CONVERSION FACTOR = 1.80 TON/CY

STORM SEWER REMOVALS SUMMARY

CATEGORY	STATION - STATION			204.0220 REMOVING INLETS EACH	204.9060.S REMOVING APRON ENDWALLS EACH	REMOVING STORM SEWER 204.0245 8-INCH LF	204.0245 10-INCH LF	204.0245 12-INCH LF	204.0245 14-INCH LF	204.0245 15-INCH LF	204.0245 18-INCH LF	204.0245 30-INCH LF	204.0245 36-INCH LF
0010	6+16	-	12+50	--	--	--	--	--	--	--	--	--	--
	12+50	-	20+54	11	4	--	56	307	--	--	--	--	--
	20+54	-	30+00	8	7	--	--	285	--	30	22	--	46
	30+00	-	44+27	13	--	29	27	308	80	15	--	14	--
			TOTALS	32	11	29	83	900	80	45	22	14	46

BASE AGGREGATE DENSE

CATEGORY	STAGE	STATION - STATION	305.0110 3/4-INCH TON	305.0120* 1 1/4-INCH TON	305.0130 3-INCH TON
0020	1	6+16 - 12+50	---	--	---
		12+50 - 20+54	---	--	---
		20+54 - 30+00	---	1,850	---
		30+00 - 44+27	---	1,800	---
		UNDISTRIBUTED		100	---
	2	6+16 - 12+50	12	210	380
		12+50 - 20+54	---	1,350	2830
		20+54 - 30+00	---	860	---
		30+00 - 44+27	---	230	---
		UNDISTRIBUTED		100	---
	3	6+16 - 12+50	21	250	510
		12+50 - 20+54	---	980	2070
		20+54 - 30+00	---	--	---
		30+00 - 44+27	---	--	---
	4	6+16 - 12+50	---	--	0
		12+50 - 20+54	---	--	---
		20+54 - 30+00	---	--	---
		30+00 - 44+27	---	--	---
	5	6+16 - 12+50	21	70	0
		12+50 - 20+54	---	--	---
		20+54 - 30+00	---	--	---
		30+00 - 44+27	---	--	---
		0020 TOTALS	54	7,800	5,790
0010	1	6+16 - 12+50	---	--	---
		12+50 - 20+54	---	--	---
		20+54 - 30+00	---	600	---
		30+00 - 44+27	---	1,000	---
	2	6+16 - 12+50	---	165	---
		12+50 - 20+54	---	290	---
		20+54 - 30+00	3	960	---
		30+00 - 44+27	4	950	---
	3	6+16 - 12+50	---	--	---
		12+50 - 20+54	---	45	---
		20+54 - 30+00	---	--	---
		30+00 - 44+27	---	--	---
	4	6+16 - 12+50	---	--	---
		12+50 - 20+54	---	--	---
		20+54 - 30+00	---	--	---
		30+00 - 44+27	---	--	---
	5	6+16 - 12+50	---	--	---
		12+50 - 20+54	---	--	---
		20+54 - 30+00	---	--	---
		30+00 - 44+27	---	--	---
		0010 TOTALS	7	4,010	0
		GRAND TOTALS	61	11,810	5,790

*ADDITIONAL QUANTITES LISTED ELSEWHERE

CONCRETE PAVEMENT

CATEGORY	STATION - STATION	415.0080 8-INCH STAGE 1 SY	415.0080 8-INCH STAGE 2 SY	415.1080 HES 8-INCH STAGE 1 SY	415.1080 HES 8-INCH STAGE 2 SY	415.4100 JOINT FILLING STAGE 1 SY	415.4100 JOINT FILLING STAGE 2 SY
0020	6+16 - 12+50	--	--	--	--	--	--
	12+50 - 20+54	--	--	--	--	--	--
	20+54 - 30+00	2,850	1,307	--	--	3,010	1,417
	30+00 - 44+27	3,146	334	--	--	3,213	371
	UNDISTRIBUTED			100	100		
	SUB-TOTALS	5,996	1,641	100	100	6,223	1,788
	0020 TOTALS	7,437		200		8,011	
0010	6+16 - 12+50	--	--	--	--	--	--
	12+50 - 20+54	--	--	--	--	--	--
	20+54 - 30+00	438	400	--	--	620	611
	30+00 - 44+27	1,113	--	--	--	1,396	272
	UNDISTRIBUTED			--	--		
	SUB-TOTALS	1,551	400	--	--	2,016	884
	0010 TOTALS	1,951		0		2,900	
	GRAND TOTALS	9,388		200		10,911	

CONCRETE PAVEMENT GAPS

CATEGORY	STATION	STAGE 2 415.0210 EACH
0020	S 24TH STREET	1
	TOTAL	1

CONCRETE PAVEMENT APPROACH SLAB

CATEGORY	STATION - STATION	415.0410 STAGE 2 SY	415.0410 STAGE 3 SY
0020	6+16 - 12+50	77	115
	12+50 - 20+54	73	142
	20+54 - 30+00	--	--
	30+00 - 44+27	--	--
	SUB-TOTALS	150	257
	0020 TOTAL	407	
0010	6+16 - 12+50	98	--
	12+50 - 20+54	73	--
	20+54 - 30+00	--	--
	30+00 - 44+27	--	--
	SUB-TOTALS	171	--
	0010 TOTAL	171	
	GRAND TOTAL	578	

CONCRETE DRIVEWAY 6-INCH

CATEGORY	STATION	LOCATION	CONCRETE DRIVEWAY 6-INCH 416.0160 STAGE 1 SY	CONCRETE DRIVEWAY 6-INCH 416.0160 STAGE 2 SY	CONCRETE DRIVEWAY 6-INCH HES 416.0260 STAGE 1 SY	CONCRETE DRIVEWAY 6-INCH HES 416.0260 STAGE 2 SY
0020	35+50	LT	44	--	--	--
	36+61	LT	27	--	--	--
	37+21	LT	22	--	--	--
	37+73	LT	11	--	--	--
	38+50	LT	9	--	--	--
	40+23	LT	17	--	--	--
	42+16	LT	8	--	--	--
	UNDISTRIBUTED		--	--	25	--
	SUB - TOTALS		138	--	25	--
	0020 TOTAL		138		25	
0010	24+06	RT	--	27	--	--
	25+25	RT	--	69	--	--
	27+23	RT	--	45	--	--
	28+23	RT	--	24	--	--
	29+50	RT	--	53	--	--
	31+06	RT	--	27	--	--
	33+00	RT	--	54	--	--
	33+50	RT	--	49	--	--
	34+29	RT	--	24	--	--
	39+50	RT	--	65	--	--
	UNDISTRIBUTED		--	--	--	25
	SUB - TOTALS		--	437	--	25
	0010 TOTAL		437		25	
	GRAND TOTAL		575		50	

3

PAVEMENT BARS

CATEGORY	STATION - STATION	LOCATION	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH
0020	42+78	LT/RT	--	37
	42+78 - 44+28	RT	101	--
	S 24TH STREET	LT/RT	--	23
	TOTALS		101	60

CONCRETE SURFACE DRAINS

CATEGORY	STATION	LOCATION	416.1010 STAGE 1 CY	416.1010 STAGE 3 CY
0020	15+04	LT	--	2
	24+10	LT	1	--
	SUB-TOTALS		1	2
	TOTAL		3	

TACK COAT

CATEGORY	STATION - STATION	455.0605 STAGE 1 GAL	455.0605 STAGE 2 GAL
0020	6+16 - 12+50	54	77
	12+50 - 20+54	534	360
	20+54 - 30+00	--	--
	30+00 - 44+27	--	--
	SUB-TOTALS	588	437
	TOTAL	1,025	

HMA PAVEMENT

CATEGORY	STATION - STATION	460.6223 3 MT 58-28 S STAGE 2 TON	460.6223 3 MT 58-28 S STAGE 3 TON	460.6424 4 MT 58-28 H STAGE 2 TON	460.6424 4 MT 58-28 H STAGE 3 TON
0020	6+16 - 12+50	75	107	54	77
	12+50 - 20+54	748	504	534	360
	20+54 - 30+00	--	--	--	--
	30+00 - 44+27	--	--	--	--
	SUB-TOTALS	823	612	588	437
	TOTALS	1,435		1,025	

ASPHALTIC SURFACE (SHARED-USE PATH)

CATEGORY	STATION - STATION	LOCATION	465.0105 STAGE 1 TON	465.0105 STAGE 2 TON	465.0105 STAGE 3 TON
0010	6+16 - 12+50	RT	--	69	--
	12+50 - 20+54	LT/RT	--	103	14
	20+54 - 30+00	LT/RT	47	152	--
	30+00 - 44+27	RT	--	190	--
	SUB - TOTALS		47	514	14
	TOTAL			575	

ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

CATEGORY	STATION	LOCATION	465.0120 STAGE 1 TON	465.0120 STAGE 2 TON
0020				
	42+16	LT	4	--
	36+30	LT	5	--
	SUB - TOTALS		9	--
	0020 TOTAL			9
0010	24+06	RT	--	3
	25+25	RT	--	11
	27+23	RT	--	4
	29+50	RT	--	6
	33+00	RT	--	13
	33+50	RT	--	13
	39+50	RT	--	13
	SUB - TOTALS		--	63
	0010 TOTAL			63
	GRAND TOTAL			72

ASPHALTIC SURFACE TEMPORARY

CATEGORY	STATION	465.0125* STAGE 1 TON	465.0125* STAGE 2 TON
0020	6+16 - 12+50	--	--
	12+50 - 20+54	14	4
	20+54 - 30+00	--	--
	30+00 - 44+27	--	--
	SUB TOTALS	14	4
	TOTAL	18	

* ADDITIONAL QUANTITIES LISTED ELSWHERE

CONCRETE CURB & GUTTER ITEMS

CATEGORY	STAGE	STATION - STATION	601.0409* 30-INCH TYPE A LF	601.0411* 30-INCH TYPE D LF	601.0555 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A LF	601.0557 6-INCH SLOPED 36-INCH TYPE D LF	601.0588 4-INCH SLOPED 36-INCH TYPE TBT LF	601.0600 CONCRETE CURB PEDESTRIAN LF
0020	1	6+16 - 12+50	--	--	--	--	--	--
		12+50 - 20+54	--	--	--	--	--	--
		20+54 - 30+00	648	--	--	--	--	--
		30+00 - 44+27	--	--	--	--	--	--
		STAGE 1 SUB-TOTALS	648	--	--	--	--	--
	2	6+16 - 12+50	--	--	48	154	--	--
		12+50 - 20+54	--	554	57	765	--	--
		20+54 - 30+00	507	--	--	--	--	--
		30+00 - 44+27	176	--	--	--	--	--
		STAGE 2 SUB-TOTALS	683	554	105	919	--	--
	3	6+16 - 12+50	--	--	13	205	--	--
		12+50 - 20+54	--	117	68	1,103	38	--
		20+54 - 30+00	--	--	--	--	--	--
		30+00 - 44+27	--	--	--	--	--	--
		STAGE 3 SUB-TOTALS	--	117	81	1,308	38	--
		0020 TOTALS	1,331	671	186	2,227	38	0
0010	1	6+16 - 12+50	--	--	--	--	--	--
		12+50 - 20+54	--	--	--	--	--	--
		20+54 - 30+00	820	--	--	--	--	--
		30+00 - 44+27	1,278	--	--	--	--	52
		STAGE 1 SUB-TOTALS	2,098	--	--	--	--	52
	2	6+16 - 12+50	--	--	--	--	46	--
		12+50 - 20+54	--	--	--	--	--	--
		20+54 - 30+00	951	--	--	--	--	--
		30+00 - 44+27	1,214	--	--	--	--	37
		STAGE 2 SUB-TOTALS	2,165	--	--	--	46	37
	3	6+16 - 12+50	--	--	--	--	--	--
		12+50 - 20+54	--	--	--	--	--	--
		20+54 - 30+00	--	--	--	--	--	--
		30+00 - 44+27	--	--	--	--	--	--
		STAGE 3 SUB-TOTALS	--	--	--	--	--	--
		0010 TOTALS	4,263	0	0	0	46	89
		GRAND TOTALS	5,594	671	186	2,227	84	89

*ADDITIONAL QUANTITES LISTED ELSEWHERE

GUARDRAIL ITEMS

CATEGORY	STATION - STATION	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
0020	6+16 - 12+50	LT	--	--	--
	12+50 - 20+54	LT	2	39	1
	20+54 - 30+00	LT	--	--	--
	30+00 - 44+27	LT	--	--	--
	0010 TOTALS		2	39	1
0010	6+16 - 12+50	RT	66	39	1
	12+50 - 20+54	RT	--	--	--
	20+54 - 30+00	RT	--	--	--
	30+00 - 44+27	RT	--	--	--
	0010 TOTALS		66	39	1
	GRAND TOTALS		68	78	2

RIPRAP MEDIUM

CATEGORY	STATION - STATION	LOCATION	606.0200 CY
0020	6+16 - 12+50	LT	--
	12+50 - 20+54	LT	7
	20+54 - 30+00	LT	20
	30+00 - 44+27	LT	--
	0020 TOTAL		27
0010	6+16 - 12+50	RT	2
	12+50 - 20+54	RT	5
	20+54 - 30+00	RT	2
	30+00 - 44+27	RT	--
	0010 TOTAL		9
	GRAND TOTAL		36

PIPE UNDERDRAIN

CATEGORY	STATION	LOCATION	612.0106 PIPE UNDERDRAIN 6-INCH LF	REMARKS
0020	25+60	LT	100	LOW POINT
	25+60	LT	100	LOW POINT
	25+83	LT	100	LOW POINT
	25+83	RT	100	LOW POINT
	UNDISTRIBUTED	LT/RT	200	FOR EBS AREAS
	TOTAL		600	

CONCRETE SIDEWALK ITEMS

CATEGORY	STAGE	STATION - STATION	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	602.0615 CURB RAMP DETECTABLE WARNING FIELD RADIAL NATURAL PATINA SF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH
0020	1	6+16 - 12+50	--	--	--	--
		12+50 - 20+54	--	--	--	--
		20+54 - 30+00	1,446	--	--	--
		30+00 - 44+27	--	--	--	--
		STAGE 1 SUB-TOTALS	1,446	--	--	--
	2	6+16 - 12+50	--	--	--	--
		12+50 - 20+54	1,187	--	--	--
		20+54 - 30+00	160	--	--	--
		30+00 - 44+27	--	--	--	--
		STAGE 2 SUB-TOTALS	1,347	--	--	--
	3	6+16 - 12+50	--	--	--	--
		12+50 - 20+54	1,533	--	--	--
		20+54 - 30+00	--	--	--	--
		30+00 - 44+27	--	--	--	--
		STAGE 3 SUB-TOTALS	1,533	--	--	--
		0020 TOTALS	4,326	--	--	--
0010	1	6+16 - 12+50	--	--	--	--
		12+50 - 20+54	--	--	--	--
		20+54 - 30+00	1,035	40	67	4
		30+00 - 44+27	855	10	--	1
		STAGE 1 SUB-TOTALS	1,890	50	67	5
	2	6+16 - 12+50	--	--	--	--
		12+50 - 20+54	1,781	80	27	5
		20+54 - 30+00	432	40	--	2
		30+00 - 44+27	1,629	50	--	3
		STAGE 2 SUB-TOTALS	3,842	170	27	10
	3	6+16 - 12+50	--	--	--	--
		12+50 - 20+54	388	--	24	1
		20+54 - 30+00	--	--	--	--
		30+00 - 44+27	--	--	--	--
		STAGE 3 SUB-TOTALS	388	--	24	1
		0010 TOTALS	6,120	220	118	16
		GRAND TOTALS	10,446	220	118	16

MOBILIZATION

CATEGORY	PROJECT	619.1000 EACH
0020	4291-02-71	1
	TOTAL	1

CONCRETE MEDIAN

CATEGORY	STATION - STATION	620.0300* SLOPED NOSE STAGE 1 SF	STAGE 2 SF	STAGE 3 SF
0020	6+16 - 12+50	---	---	---
	12+50 - 20+54	---	119	101
	20+54 - 30+00	180	---	---
	30+00 - 44+27	---	---	---
	SUB-TOTALS	180	119	101
	TOTAL		400	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

DUST CONTROL SURFACE TREATMENT

CATEGORY			623.0200 SY
0020	6+16 - 12+50		1900
	12+50 - 20+54		8388
	20+54 - 30+00		4938
	30+00 - 44+27		3729
	0020 TOTAL		18,955
0010	6+16 - 12+50		488
	12+50 - 20+54		1101
	20+54 - 30+00		3599
	30+00 - 44+27		4363
	0010 TOTAL		9,552
	GRAND TOTAL		28,508

WATER

CATEGORY	STATION - STATION	LOCATION	624.0100 MGAL
0020	6+16 - 12+50	LT/RT	21
	12+50 - 20+54	LT/RT	109
	20+54 - 30+00	LT/RT	41
	30+00 - 44+27	LT/RT	30
	0020 TOTAL		201
0010	6+16 - 12+50	LT/RT	2
	12+50 - 20+54	LT/RT	5
	20+54 - 30+00	LT/RT	23
	30+00 - 44+27	LT/RT	29
	0010 TOTAL		60
	GRAND TOTAL		261

STORM SEWER SUMMARY

CATEGORY	FROM STRUCTURE	TO STRUCTURE	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 608.0412 12-INCH LF	608.0415 15-INCH LF	608.0418 18-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	SPV.0090.01 STORM SEWER PIPE PVC 10-INCH LF	SPV.0090.02 14-INCH LF	520.8000 CONCRETE COLLARS FOR PIPE EACH
0010	INL 16	EW 11	47	---	---	---	---	---	---	---
	INL 8	EW 3	50	---	---	---	---	---	---	---
	INL 13	INL 12	23	---	---	---	---	---	---	---
	INL 22	EW 6	43	---	---	---	---	---	---	---
	INL 31	INL 32	23	---	---	---	---	---	---	---
	TI 1	INL 32	---	---	---	---	---	---	---	---
	INL 32	INL 33	32	---	---	---	---	---	---	---
	INL 40	INL 41	---	41	---	---	---	---	---	---
	INL 51	EX MH 1	13	---	---	---	---	---	---	1
	INL 81	MH 2	13	---	---	---	---	---	---	---
	TI 2	INL 82	---	---	---	---	---	---	---	1
	INL 82	EX MH 4	---	13	---	---	---	---	---	1
	INL 95	INL 94	31	---	---	---	---	---	---	---
	TOTALS		275	54	0	0	0	0	0	3

STORM SEWER SUMMARY

CATEGORY	FROM STRUCTURE	TO STRUCTURE	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 608.0412 12-INCH LF	608.0415 15-INCH LF	608.0418 18-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	SPV.0090.01 STORM SEWER PIPE PVC 10-INCH LF	SPV.0090.02 14-INCH LF	520.8000 CONCRETE COLLARS FOR PIPE EACH
0020	EW 11	-	-	---	---	---	---	---	---	---
	INL 1	INL 2	5	---	---	---	---	---	---	---
	INL 2	INL 3	22	---	---	---	---	---	---	---
	INL 3	EW 1	33	---	---	---	---	---	---	---
	EW 1	-	-	---	---	---	---	---	---	---
	INL 7	EW 12	---	34	---	---	---	---	---	---
	EW 12	-	---	-	---	---	---	---	---	---
	INL 6	INL 7	44	---	---	---	---	---	---	---
	INL 5	INL 6	16	---	---	---	---	---	---	---
	INL 4	EW 2	64	---	---	---	---	---	---	---
	EW 2	-	-	---	---	---	---	---	---	---
	EW 3	-	-	---	---	---	---	---	---	---
	INL 9	EW 14	51	---	---	---	---	---	---	---
	EW 14	-	-	---	---	---	---	---	---	---
	INL 14	INL 10	20	---	---	---	---	---	---	---
	INL 10	INL 9	43	---	---	---	---	---	---	---
	INL 11	INL 12	37	---	---	---	---	---	---	---
	INL 12	EW 4	50	---	---	---	---	---	---	---
	EW 4	-	-	---	---	---	---	---	---	---
	INL 24	EW 13	28	---	---	---	---	---	---	---
	EW 13	-	-	---	---	---	---	---	---	---
	EW 5	INL 23	---	33	---	---	---	---	---	---
	INL 23	EW 10	---	63	---	---	---	---	---	---
	EW 10	-	---	-	---	---	---	---	---	---
	INL 20	INL 21	8	---	---	---	---	---	---	---
	INL 21	INL 22	18	---	---	---	---	---	---	---
	EW 6	-	-	---	---	---	---	10	---	---
	INL 30	INL 31	20	---	---	---	---	---	---	---
	INL 33	INL 34	18	---	---	---	---	---	---	---
	INL 34	EW 7	25	---	---	---	---	---	---	---
	EW 7	-	-	---	---	---	---	---	---	---
	INL 35	INL 34	8	---	---	---	---	---	---	---
	INL 41	EW 8	---	---	21	---	---	---	---	---
	EW 8	-	---	---	-	---	---	---	---	---
	EX MH 1	INL 50	---	---	---	---	20	---	---	1
	INL 50	EW 9	---	---	---	---	62	---	---	---
	EW 9	-	---	---	---	---	-	---	---	---
	INL 60	EX MH 2	20	---	---	---	---	---	---	1
	MH 1	INL 61	18	---	---	---	---	---	---	1
	INL 61	EX MH 2	13	---	---	---	---	---	---	1
	INL 70	EX MH 3	21	---	---	---	---	---	---	1
	INL 71	EX MH 3	---	---	---	13	---	---	---	2
	INL 80	MH 2	20	---	---	---	---	---	19	---
	MH 2	EX MH 4	192	---	---	---	---	---	---	1
	INL 83	EX MH 4	20	---	---	---	---	---	---	---
	INL 90	EX MH 5	45	---	---	---	---	---	---	1
	INL 91	INL 92	---	8	---	---	---	---	---	---
	INL 92	INL 93	---	31	---	---	---	---	---	---
	INL 93	INL 94	---	8	---	---	---	---	---	---
	INL 94	EX MH 5	---	19	---	---	---	---	---	1
	TOTALS		859	196	21	13	82	10	19	10

MISCELLANEOUS STORM SEWER SUMMARY

CATEGORY	STRUCTURE ID#.	STATION	OFFSET		204.0280 SEALING PIPES EACH	611.8110* ADJUSTING MANHOLE COVERS EACH	SPV.0060.01 STORM SEWER CUT-IN EACH
0020	EX MH 1	30+08.55	3.87	RT	1	1	2
	EX MH 2	31+28.49	3.62'	RT	2	1	2
	EX MH 3	33+35.81	4.22'	RT	1	1	2
	EX MH 4	35+11.85	3.57'	RT	1	1	2
	EX WV	40+24.07	6.84'	LT	--	--	--
	EX WV	40+31.97	10.37'	LT	--	--	--
	EX WV	41+57.21	70.44'	RT	--	--	--
	EX WV	41+74.76	11.20'	LT	--	--	--
	EX MH 5	41+87.28	19.46'	RT	2	1	2
	UNDISTRIBUTED				--	--	--
				TOTALS	7	5	10

STORM SEWER ENDWALL SUMMARY

CATEGORY	STRUCTURE ID#.	STATION	OFFSET		APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 522.1012 12-INCH EACH	522.1015 15-INCH EACH	522.1018 18-INCH EACH	522.1036 36-INCH EACH	633.5200 MARKERS CULVERT END EACH
0010	EW 11	10+01.84	68.98'	RT	1	--	--	--	1
	EW 4	18+25.20	91.41'	RT	1	--	--	--	1
	EW 6	22+69.90	58.80'	RT	1	--	--	--	1
				0010 TOTALS	3	0	0	0	3

CATEGORY	STRUCTURE ID#.	STATION	OFFSET		APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 522.1012 12-INCH EACH	522.1015 15-INCH EACH	522.1018 18-INCH EACH	522.1036 36-INCH EACH	633.5200 MARKERS CULVERT END EACH
0020	EW 1	18+55.17	82.03'	LT	1	--	--	--	1
	EW 12	18+72.42	94.03'	LT	--	1	--	--	1
	EW 2	20+67.51	89.64'	LT	1	--	--	--	1
	EW 3	20+70.39	96.80'	LT	1	--	--	--	1
	EW 14	19+96.94	82.85'	RT	1	--	--	--	1
	EW 13	23+36.93	82.33'	LT	1	--	--	--	1
	EW 5	23+50.00	90.97'	LT	--	1	--	--	1
	EW 10	24+44.75	110.79'	LT	--	1	--	--	1
	EW 7	25+67.32	58.74'	LT	1	--	--	--	1
	EW 8	27+45.36	45.64'	LT	--	--	1	--	1
	EW 9	29+70.42	65.23'	LT	--	--	--	1	1
				0020 TOTALS	6	3	1	1	11
				GRAND TOTALS	9	3	1	1	14

STORM SEWER ITEMS

CATEGORY	STRUCT. ID#	STATION	OFFSET		611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0535 MANHOLE COVERS TYPE J SPECIAL EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0654 INLET COVERS TYPE V EACH	611.0627 INLET COVERS TYPE HM EACH	SPV.0060.03* INLET COVERS TYPE DW EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH
0010	INL 16	10+01.72	22	' RT	---	---	---	1	---	---	---	---	1	---	---	1
	EW 11	10+01.84	68.983	' RT	---	---	---	---	---	---	---	---	---	---	---	1
	INL 8	20+11.70	21.265	' RT	---	---	---	1	---	---	1	---	---	---	---	1
	EW 3	20+70.39	96.806	' LT	---	---	---	---	---	---	---	---	---	---	---	1
	INL 13	18+48.66	37.215	' RT	---	---	1	---	---	---	---	---	---	1	---	1
	INL 22	22+71.18	16.505	' RT	---	---	---	1	---	---	1	---	---	---	---	1
	EW 6	22+69.90	58.805	' RT	---	---	---	---	---	---	---	---	---	---	---	1
	INL 31	25+87.90	16.427	' RT	---	---	---	1	---	---	---	1	---	---	---	1
	INL 32	25+65.21	16.504	' RT	---	---	---	1	---	---	---	1	---	---	---	1
	INL 40	27+45.03	16.513	' RT	---	---	---	1	---	---	1	---	---	---	---	1
	INL 51	30+08.71	16.504	' RT	---	---	---	1	---	---	1	---	---	---	---	1
	MH 1	31+29.43	34.584	' RT	1	---	---	---	1	---	---	---	---	---	---	1
	INL 61	31+28.86	16.5	' RT	---	---	---	1	---	---	1	---	---	---	---	1
	INL 71	33+32.97	16.504	' RT	---	1	---	---	---	---	1	---	---	---	---	1
	INL 81	37+03.83	16.5	' RT	---	---	---	1	---	---	1	---	---	---	---	1
	INL 82	35+10.64	16.555	' RT	---	---	---	1	---	---	1	---	---	---	---	1
	INL 95	42+12.98	16.5	' RT	---	---	---	1	---	---	---	1	---	---	---	1
	TOTALS				1	1	1	11	1	0	8	3	1	1	0	17

3

3

STORM SEWER ITEMS

CATEGORY	STRUCT. ID#	STATION	OFFSET	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0535 MANHOLE COVERS TYPE J SPECIAL EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0654 INLET COVERS TYPE V EACH	611.0627 INLET COVERS TYPE HM EACH	SPV.0060.03* INLET COVERS TYPE DW EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH
0020	INL 1	18+41.41	24.907 ' LT	---	---	---	1	---	---	---	---	---	1	---	1
	INL 2	18+41.55	29.907 ' LT	---	---	---	1	---	---	---	---	---	1	---	1
	INL 3	18+41.53	52.027 ' LT	---	---	1	---	---	---	---	---	---	1	---	1
	EW 1	18+55.17	82.038 ' LT	---	---	---	---	---	---	---	---	---	---	---	1
	INL 7	19+08.07	97.716 ' LT	---	---	1	---	---	---	---	---	---	1	---	1
	EW 12	18+72.42	94.035 ' LT	---	---	---	---	---	---	---	---	---	---	---	1
	INL 6	19+51.62	85.246 ' LT	---	---	1	---	---	---	---	1	---	---	---	1
	INL 5	19+66.90	91.14 ' LT	---	---	1	---	---	---	---	1	---	---	---	1
	INL 4	20+06.17	80.522 ' LT	---	---	---	1	---	---	---	1	---	---	---	1
	EW 2	20+67.51	89.645 ' LT	---	---	---	---	---	---	---	---	---	---	---	1
	INL 9	19+48.19	78.528 ' RT	---	---	---	1	---	---	1	---	---	---	---	1
	EW 14	19+96.94	82.852 ' RT	---	---	---	---	---	---	---	---	---	---	---	1
	INL 14	19+14.02	46.087 ' RT	---	---	---	1	---	---	---	1	---	---	---	1
	INL 10	19+08.95	64.911 ' RT	---	---	---	1	---	---	1	---	---	---	---	1
	INL 11	18+96.94	61.637 ' RT	---	---	---	1	---	---	1	---	---	---	---	1
	INL 12	18+60.77	56.947 ' RT	---	---	1	---	---	---	---	---	---	1	---	1
	EW 4	18+25.20	91.414 ' RT	---	---	---	---	---	---	---	---	---	---	---	1
	INL 24	23+36.71	54.359 ' LT	---	---	---	1	---	---	1	---	---	---	---	1
	EW 13	23+36.93	82.338 ' LT	---	---	---	---	---	---	---	---	---	---	---	1
	EW 5	23+50.00	90.971 ' LT	---	---	---	---	---	---	---	---	---	---	---	1
	INL 23	23+84.47	86.25 ' LT	---	---	1	---	---	---	1	---	---	---	---	1
	EW 10	24+44.75	110.8 ' LT	---	---	---	---	---	---	---	---	---	---	---	1
	INL 20	22+68.42	10.614 ' LT	---	---	---	1	---	---	1	---	---	---	---	1
	INL 21	22+69.29	2.137 ' LT	---	---	---	1	---	---	1	---	---	---	---	1
	INL 30	25+88.07	3.46 ' LT	---	---	---	1	---	---	---	1	---	---	---	1
	TI 1	25+70.41	24.832 ' RT	---	---	---	---	---	---	---	---	---	---	---	---
	INL 33	25+64.75	15.618 ' LT	---	---	---	1	---	---	---	1	---	---	---	1
	INL 34	25+65.26	33.674 ' LT	---	---	---	1	---	---	---	1	---	---	---	1
	EW 7	25+67.32	58.74 ' LT	---	---	---	---	---	---	---	---	---	---	---	1
	INL 35	25+73.76	33.281 ' LT	---	---	---	1	---	---	---	1	---	---	---	1
	INL 41	27+45.10	24.163 ' LT	---	---	---	1	---	---	1	---	---	---	---	1
	EW 8	27+45.36	45.644 ' LT	---	---	---	---	---	---	---	---	---	---	---	1
	EX MH 1	30+08.55	3.87 ' RT	---	---	---	---	---	---	---	---	---	---	---	---
	INL 50	30+08.65	16.482 ' LT	---	1	---	---	---	---	1	---	---	---	---	1
	EW 9	29+70.42	65.239 ' LT	---	---	---	---	---	---	---	---	---	---	---	1
	INL 60	31+31.12	16.502 ' LT	---	---	---	1	---	---	1	---	---	---	---	1
	INL 70	33+36.15	16.5 ' LT	---	---	---	1	---	---	1	---	---	---	---	1
	INL 80	37+03.83	16.496 ' LT	---	---	---	1	---	---	---	---	---	---	1	1
	MH 2	37+04.12	3.116 ' RT	1	---	---	---	---	1	---	---	---	---	---	1
	TI 2	35+09.33	35.027 ' RT	---	---	---	---	---	---	---	---	---	---	---	---
	INL 83	35+11.93	16.503 ' LT	---	---	---	1	---	---	1	---	---	---	---	1
	INL 90	41+59.91	16.502 ' LT	---	---	1	---	---	---	1	---	---	---	---	1
	INL 91	41+55.27	52.042 ' RT	---	---	---	1	---	---	1	---	---	---	---	1
	INL 92	41+57.62	44.406 ' RT	---	---	---	1	---	---	1	---	---	---	---	1
	INL 93	41+88.47'	46.162 ' RT	---	---	---	1	---	---	1	---	---	---	---	1
	INL 94	41+90.82	38.507 ' RT	---	1	---	---	---	---	1	---	---	---	---	1
TOTALS				1	2	7	22	0	1	17	8	0	5	1	43

TEMPORARY CROSSOVERS SUMMARY

CATEGORY	STAGE	STATION - STATION	204.0150 REMOVING CURB & GUTTER LF	204.0100* REMOVING CONCRETE PAVEMENT SY	205.0100* EXCAVATION COMMON CY	305.0120* BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0125* ASPHALTIC SURFACE TEMPORARY TON	601.0409* CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411* CONCRETE CURB & GUTTER 30-INCH TYPE D LF	611.8110* ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	611.9705 SALVAGED MANHOLE COVERS EACH	611.9710 SALVAGED INLET COVERS EACH	SPV.0060.03* INLET COVERS TYPE DW EACH	620.0300* CONCRETE MEDIAN SLOPED NOSE SY	625.0100* TOPSOIL SY	628.2008* EROSION MAT URBAN CASS I TYPE B SY	629.0210* FERTILIZER TYPE B CWT	630.0130* SEEDING MIXTURE NO. 30 LB	690.0150* SAWING ASPHALT LF	690.0250* SAWING CONCRETE LF
0020	1	4+50 - 7+50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		TAYLOR DRIVE South	551	--	220	319	119	--	--	--	--	1	--	1	--	--	--	--	--	--	--	561
		TAYLOR DRIVE North	433	--	206	300	111	--	--	--	--	1	1	2	2	--	--	--	--	--	--	443
		STAGE 1 SUB-TOTALS	984	--	426	619	230	--	--	--	--	2	1	3	2	--	--	--	--	--	--	1,004
	4	4+50 - 7+50	--	--	--	--	--	--	--	--	--	--	--	--	--				--	--		--
		TAYLOR DRIVE South	--	--	220	122	--	551	--	--	1	--	--	--	--	--	606	606	0.4	11	560	--
		TAYLOR DRIVE North	--	--	206	96	--	433	--	1	2	--	--	--	--	--	568	568	0.4	10	443	--
		STAGE 4 SUB-TOTALS	--	--	426	219	--	984	--	1	3	--	--	--	--	--	1,174	1,174	0.7	21	1,003	--
		0020 TOTALS	984	--	852	838	230	984	--	1	3	2	1	3	2	--	1,174	1,174	0.7	21	1,003	1,004
0010	1	4+50 - 7+50	435	17	155	226	85	--	--	--	--	--	--	--	--	--	--	--	--	--	473	6
		TAYLOR DRIVE South	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		TAYLOR DRIVE North	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		STAGE 1 SUB-TOTALS	435	17	155	226	85	--	--	--	--	--	--	--	--	--	--	--	--	--	473	6
	4	4+50 - 7+50	--	--	155	106	--	--	435	--	--	--	--	--	--	17	369	369	0.2	7	478	--
		TAYLOR DRIVE South	--	--	--	--	--	--	--	--		--	--	--	--	--			--	--	--	--
		TAYLOR DRIVE North	--	--	--	--	--	--	--	--	--	--	--	--	--	--			--	--	--	--
		STAGE 4 SUB-TOTALS	--	--	155	106	--	--	435	--	--	--	--	--	--	17	369	369	0.2	7	478	--
		0010 TOTALS	435	17	310	332	85	--	435	--	--	--	--	--	--	17	369	369	0.2	7	951	6
		GRAND TOTALS	1,419	17	1,162	1,170	315	984	435	1	3	2	1	3	2	17	1,543	1,543	1.0	28	1,954	1,010

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

TOPSOIL

CATEGORY	STATION - STATION			LOCATION	625.0100* TOPSOIL SY
0020	6+16	-	12+50	LT	483
	12+50	-	20+54	LT/RT	1,197
	20+54	-	30+00	LT	935
	30+00	-	44+27	LT	568
			0020 TOTAL		3,183
0010	6+16	-	12+50	RT	987
	12+50	-	20+54	LT/RT	2,170
	20+54	-	30+00	RT	3,531
	30+00	-	44+27	RT	1,358
			0010 TOTAL		8,047
			GRAND TOTAL		11,230

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

MOBILIZATIONS EROSION CONTROL

CATEGORY	STATION - STATION	628.1905 EACH
0010	LT/RT	3
	0010 TOTAL	3
0020	LT/RT	3
	0020 TOTAL	3
	GRAND TOTAL	6

MOBILIZATIONS EMERGENCY EROSION CONTROL

CATEGORY	STATION - STATION	628.1910 EACH
0010	LT/RT	2
	0010 TOTAL	2
0020	LT/RT	2
	0020 TOTAL	2
	GRAND TOTAL	4

SILT FENCE ITEMS

CATEGORY	STATION - STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
0020	6+16 - 12+50	LT	281	28
	12+50 - 20+54	LT	591	59
	20+54 - 30+00	LT	830	83
	30+00 - 44+27	LT	799	80
	0020 TOTALS		2,501	250
0010	6+16 - 12+50	RT	440	44
	12+50 - 20+54	LT/RT	858	86
	20+54 - 30+00	LT/RT	863	86
	30+00 - 44+27		---	---
	0010 TOTALS		2,161	216
	GRAND TOTALS		4,662	466

EROSION MAT ITEMS

CATEGORY	STATION - STATION	LOCATION	628.2004 CLASS I TYPE B SY	628.2008* URBAN CLASS I TYPE B SY
0020	6+16 - 12+50	LT/RT	240	243
	12+50 - 20+54	LT/RT	1,110	88
	20+54 - 30+00	LT/RT	---	936
	30+00 - 44+27	LT/RT	---	568
	0020 TOTALS		1,350	1,835
0010	6+16 - 12+50	LT/RT	---	987
	12+50 - 20+54	LT/RT	---	2,170
	20+54 - 30+00	LT/RT	---	3,553
	30+00 - 44+27	LT/RT	---	1,358
	0010 TOTALS		---	8,068
	GRAND TOTALS		1,350	9,903

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

TRACKING PADS

CATEGORY	STATION - STATION	628.7560 STAGE 1 EACH	STAGE 2 EACH	STAGE 3 EACH
0020	9+43		1	1
	20+50	1		1
	42+77	1	1	
	SITE	1		
	SUB TOTALS	3	2	2
	TOTAL		7	

INLET PROTECTION

CATEGORY	STATION - STATION	LOCATION	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
0020	6+16 - 12+50	LT/RT	--	--	2	--
	12+50 - 20+54	LT/RT	7	--	13	--
	20+54 - 30+00	LT/RT	8	1	7	5
	30+00 - 44+27	LT/RT	6	6	6	--
	0020 TOTALS		21	7	28	5
0010	6+16 - 12+50	LT/RT	1	--	--	--
	12+50 - 20+54	LT/RT	7	--	11	--
	20+54 - 30+00	LT/RT	5	--	4	2
	30+00 - 44+27	LT/RT	10	--	12	4
	0010 TOTALS		23	--	27	6
	GRAND TOTALS		44	7	55	11

ROCK BAGS

CATEGORY	STATION	LOCATION	628.7570 EACH	REMARKS
0020	9+90	LT	30	SILT FENCE RELIEF
	15+00	LT	30	SILT FENCE RELIEF
	18+60	LT	10	CULVERT OUTFALL WITH SILT FENCE
	21+80	LT	30	SILT FENCE RELIEF
	23+50	LT	1	PIPE CHECK
	24+50	LT	8	CULVERT OUTFALL WITH SILT FENCE
	25+70	LT	8	CULVERT OUTFALL WITH SILT FENCE
	27+50	LT	10	CULVERT OUTFALL WITH SILT FENCE
	29+70	LT	16	CULVERT OUTFALL WITH SILT FENCE
	0020 TOTAL		143	
0010	7+70	RT	30	SILT FENCE RELIEF
	9+60	RT	30	SILT FENCE RELIEF
	10+00	RT	8	CULVERT OUTFALL WITH SILT FENCE
	16+60	RT	30	SILT FENCE RELIEF
	18+20	RT	8	CULVERT OUTFALL WITH SILT FENCE
	20+00	RT	8	CULVERT OUTFALL WITH SILT FENCE
	20+25	RT	8	CULVERT OUTFALL WITH SILT FENCE
	21+90	RT	30	SILT FENCE RELIEF
	22+70	RT	8	CULVERT OUTFALL WITH SILT FENCE
	0010 TOTAL		160	
	GRAND TOTAL		303	

FINISHING ITEMS

CATEGORY	STATION - STATION	LOCATION	629.0210* FERTILIZER TYPE B CWT	630.0130* SEEDING MIXTURE NO. 30 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
0020	6+16 - 12+50	LT/RT	0.3	9	13	11
	12+50 - 20+54	LT/RT	0.8	22	32	27
	20+54 - 30+00	LT/RT	0.6	17	25	21
	30+00 - 44+27	LT/RT	0.4	10	15	13
	0020 TOTALS		2.0	57	86	72
0010	6+16 - 12+50	LT/RT	0.6	18	27	22
	12+50 - 20+54	LT/RT	1.4	39	59	49
	20+54 - 30+00	LT/RT	2.2	64	95	79
	30+00 - 44+27	LT/RT	0.9	24	37	31
	0010 TOTALS		5.1	145	217	181
	GRAND TOTALS		7.1	202.2	303.2	253.0

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

TEMPORARY PEDESTRIAN ACCOMMODATIONS

CATEGORY	STAGE	STATION - STATION	644.1410 TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF
0010	1	6+16 - 12+50	--	--	--
		12+50 - 20+54	--	--	--
		20+54 - 30+00	--	--	--
		30+00 - 49+50	--	44	--
		STAGE 1 SUBTOTALS	--	44	--
	2	6+16 - 12+50	--	--	--
		12+50 - 20+54	3,530	92	416
		20+54 - 30+00	--	--	--
		30+00 - 49+50	--	46	--
		STAGE 2 SUBTOTALS	3,530	138	416
	3	6+16 - 12+50	--	--	--
		12+50 - 20+54	933	24	179
		20+54 - 30+00	--	--	--
		30+00 - 49+50	--	--	--
		STAGE 3 SUBTOTALS	933	24	179
		TOTALS	4,463	206	595

TRAFFIC CONTROL

CATEGORY	PROJECT	643.5000 4291-02-71 EACH
0020	4291-02-71	1
	TOTAL	1

FIELD OFFICE TYPE B

CATEGORY	PROJECT	642.5001 4291-02-71 EACH
0020	4291-02-71	1
	TOTAL	1

GEOTEXTILE FABRIC

CATEGORY	STATION - STATION	LOCATION	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY	645.0120 GEOTEXTILE TYPE HR SY	645.0220 GEOGRID TYPE SR SY	REMARKS
0020	6+16 - 12+50	LT/RT	-	0	954	
	12+50 - 20+54	LT	--	29	4,726	
	20+54 - 30+00	RT	178	80	3,584	
	30+00 - 44+27	LT	--	0	4,268	
	0020 TOTALS		178	109	13,532	
0010	6+16 - 12+50	LT/RT	--	7	--	
	12+50 - 20+54	LT	--	21	--	
	20+54 - 30+00	RT	--	7	--	
	30+00 - 44+27	LT	--	0	--	
	0010 TOTALS		0	36	0	
	GRAND TOTALS		178	145	13,532	

PERMANENT SIGNING

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	SIGN MESSAGE	SIGN SIZE W [IN.]	X	H [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0808 POSTS TUBULAR STEEL 2X2-INCH X 8FT EACH	REMARKS
0010	E1-1	7+20	RT	--	NO MOTOR VEHICLES		X						1	1			
	E1-2	8+43	RT	J1-1	JCT, COUNTY TA	24	X	39	6.50				2	1			
	2-1	9+76	LT	W3-3	SIGNAL AHEAD	36	X	36	9.00						1		
	2-2	10+20	LT	J4-1	WEST COUNTY PP	24	X	36	6.00						1		
	E2-3	10+25	LT	J4-1	WEST COUNTY PP		X						2	1			
	E2-4	10+86	LT		LEFT LANE MERGES		X						1	1			
	E2-5	13+92	LT	W3-3	SIGNAL AHEAD		X						1	1			
	2-6	13+87	LT	R3-20-L	BEGIN LEFT TURN LANE	24	X	36	6.00						1		
	E2-7	14+69	LT	13-1	SHEYBOGAN RIVER		X						1	1			
	E2-8	14+69	LT		NO PARKING		X						1				
	E2-9	14+77	LT	--	LIFT PLOW		X				1.00						
	2-10	14+77	LT	I3-1	SHEYBOYGAN RIVER	60	X	24	10.00						1		
	2-11	9+76	RT	W3-3	SIGNAL AHEAD	36	X	36	9.00						1		
	E2-12	10+64	RT		LIFT PLOW		X				1.00						
	2-13	10+64	RT	I3-1	SHEYBOYGAN RIVER	60	X	24	10.00						1		
	E2-14	10+68	RT	I3-1	SHEYBOYGAN RIVER	36	X	24					1	1			
	E2-15	10+85	RT		LEFT LANE MERGES		X						1	1			
	E2-16	13+89	RT	W3-3	SIGNAL AHEAD	36	X	36					1	1			
	E2-17	13+89	RT		WRONG WAY		X						1	1			
	2-18	14+03	RT	J1-1	JCT; COUNTY TA	24	X	39	6.50						1		
	3-1	17+37	LT	R2-1	SPEED LIMIT 45	24	X	30	5.00						1		
	E3-2	17+39	LT	R2-1	SPEED LIMIT 45		X						1	1			
	3-3	18+62	LT	R6-2-L	ONE WAY	24	X	30	5.00								MOUNTED ON PROPOSED SIGNAL POLE
	3-4	18+60	LT	M1-94H	S TAYLOR DRIVE	84	X	18	10.50								MOUNTED ON PROPOSED SIGNAL POLE
	E3-5	18+95	LT	R5-1	DO NOT ENTER		X						1	1			
	3-6	18+95	LT	R5-1	DO NOT ENTER	30	X	30	6.25								MOUNTED ON PROPOSED SIGNAL POLE
	E3-7	18+95	LT	J13-2	COUNTY PP; COUTNY TA;		X						4	1			
	3-8	19+12	LT	J13-2	COUNTY PP; COUTNY TA;	48	X	45	15.00						1		
	3-9	18+96	LT	R1-1F	FOLDING STOP SIGN	30	X	30		5.18							MOUNTED ON PROPOSED SIGNAL POLE
	3-10	19+55	LT	R4-7	KEEP RIGHT	24	X	30	5.00						1		
	E3-11	20+19	LT	R5-1	DO NOT ENTER	30	X	30									
	3-12	19+84	LT	M1-94H	INDIANA AVE	84	X	18	10.50								MOUNTED ON PROPOSED SIGNAL MAST
	E3-13	20+19	LT	J13-1	COUNTY TA	24	X	45					1	1			
	3-14	20+25	LT	R1-1F	FOLDING STOP SIGN	30	X	30		5.18							
	3-15	20+12	LT	R6-2-L	ONE WAY	24	X	30	5.00								MOUNTED ON PROPOSED SIGNAL POLE
	3-16	20+29	LT	R5-3	NO MOTOR VEHICLES	24	X	24	4.00						1		
	E3-17	20+38	LT	R5-3	NO MOTOR VEHICLES	24	X	24					1	1			
	3-18	20+48	LT	D11-1	BIKE ROUTE	24	X	18	3.00						1		
	3-19	20+48	LT	M7-5	ARROWS	12	X	9	0.75								
	E3-20	20+48	LT		BIKE AND PEDESTRIAN		X						1	1			
	3-21	21+00	LT	R5-1	DO NOT ENTER	30	X	30	6.25						1		
	3-22	21+01	LT	J13-1	COUNTY TA	24	X	45	7.50								
	E3-23	16+17	RT	D1-2-R	UW SHEBOYGAN	60	X	12					1	1			
	3-24	15+98	RT	D1-2-R	UW SHEBOYGAN	96	X	36	24.00						2		
	3-25	15+99	RT	R5-1A	WRONG WAY	36	X	24	6.00						1		
	E3-26	16+57	RT		LEFT TURN LANE		X						1	1			
	3-27	17+75	RT	J13-1	COUNTY TA	24	X	45	7.50						1		
	3-28	17+76	RT	R5-1	DO NOT ENTER	30	X	30	6.25								
	3-29	18+36	RT	R1-1F	FOLDING STOP SIGN	30	X	30		5.18							
	E3-30	18+29	RT	J13-1	COUNTY TA	24	X	45					1	1			
	E3-31	18+30	RT	R5-1	DO NOT ENTER	36	X	36					1				
	E3-32	18+38	RT	R6-2-L	ONE WAY	24	X	30					1				MOUNTED ON EXISTING LIGHT POLE
	E3-33	18+45	RT	R5-3	NO MOTOR VEHICLES	24	X	24					1	1			
	3-34	18+40	RT	R5-3	NO MOTOR VEHICLES	24	X	24	4.00								MOUNTED ON PROPOSED SIGNAL POLE
	3-35	18+78	RT	M1-94H	INDIANA AVE	84	X	18	10.50								MOUNTED ON PROPOSED SIGNAL MAST
	3-36	19+09	RT	R4-7	KEEP RIGHT	24	X	30	5.00						1		
	3-37	18+52	RT	R6-2-L	ONE WAY	24	X	30	5.00								MOUNTED ON PROPOSED SIGNAL POLE
	3-38	20+00	RT	M1-94H	S TAYLOR DRIVE	84	X	18	10.50								
	3-39	19+80	RT	R5-3	NO MOTOR VEHICLES	24	X	24	4.00						1		
	3-40	19+40	RT	R5-1	DO NOT ENTER	30	X	30	6.25						1		
	3-41	19+40	RT	J13-2	COUNTY PP; COUTNY TA;	48	X	45	15.00								
	E3-42	19+42	RT	R5-3	NO MOTOR VEHICLES	24	X	24					1	1			
	3-43	19+65	RT	D11-1	BIKE ROUTE	24	X	18	3.00						1		
	3-44	19+65	RT	M7-5	ARROWS	12	X	9	0.75								
	3-45	19+56	RT	R1-1F	FOLDING STOP SIGN	30	X	30		5.18							MOUNTED ON PROPOSED SIGNAL POLE
	E3-46	19+59	RT	J13-2	COUNTY PP; COUTNY TA;	48	X	45					1	1			
	E3-47	19+59	RT	R5-1	DO NOT ENTER	30	X	30					1				

PERMANENT SIGNING

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	SIGN MESSAGE	SIGN SIZE W [IN.]	X	H [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0808 POSTS TUBULAR STEEL 2X2-INCH X 8FT EACH	REMARKS
0010	E3-48	19+74	RT	R6-2-L	ONE WAY	24	X	30					1	1			
	3-49	19+96	RT	R6-2-L	ONE WAY	24	X	30	5.00								MOUNTED ON PROPOSED SIGNAL POLE
	E3-50	20+47	RT	--	MAY USE FULL LANE		X						1	1			
	3-51	20+55	RT	R3-17	BIKE LANE	30	X	24	5.00						1		
	3-52	21+44	RT	R2-1	SPEED LIMIT 35	24	X	30	5.00						1		
	E3-53	21+48	RT	R2-1	SPEED LIMIT 35	24	X	30					1	1			
	E3-54	21+48	RT	R5-1A	WRONG WAY	36	X	24					1	1			
	4-1	21+80	LT	D1-2-R	UW SHEBOYGAN	96	X	36	24.00						2		
	E4-2	22+45	LT	R5-1A	WRONG WAY	36	X	24					1	1			
	E4-3	22+45	LT	D1-2-R	UW SHEBOYGAN	60	X	12					1				
	4-4	22+70	LT	R5-1A	WRONG WAY	36	X	24	6.00						1		
	4-5	22+70	LT	R3-17	BIKE LANE	30	X	24	5.00								
	4-6	22+70	LT	R3-17-B	ENDS	30	X	12	2.50								
	E4-7	23+73	LT	R1-1	STOP SIGN	30	X	30					1	1			
	4-8	23+74	LT	R1-1	STOP SIGN	30	X	30	5.18						1		
	4-9	23+59	LT	R3-20-L	BEGIN LEFT TURN LANE	24	X	26	4.33						1		
	4-10	24+74	LT	R5-1	DO NOT ENTER	30	X	30	6.25						1		
	4-11	24+86	LT	W11-2	PEDESTRIAN CROSSING	30	X	30	6.25						1		
	4-12	24+80	LT	W16-7L	ARROW	24	X	12	2.00								
	4-13	25+48	LT	R3-8-W	LANE DIRECTIONS	54	X	30	11.25						1		
	4-14	27+24	LT	W3-3	STOPLIGHT	36	X	36	9.00						1		
	E4-15	27+21	RT	W3-3	STOPLIGHT	36	X	36					1	1			
	E4-16	23+50	LT	R4-7	KEEP RIGHT	24	X	30					1	1			
	4-17	23+90	RT	R6-2-L	ONE WAY	24	X	30	5.00								MOUNTED ON PROPOSED LIGHT POLE
	4-18	24+39	RT	W11-2	PEDESTRIAN CROSSING	30	X	30	6.25						1		
	4-19	24+39	RT	W16-7L	ARROW	24	X	12	2.00								
	4-20	25+59	RT	J4-1	EAST; COUNTY PP	24	X	36	6.00						1		
	4-21	26+27	LT	R4-7	KEEP RIGHT	24	X	30	5.00						1		
	E4-22	26+42	RT	J4-1	EAST; COUNTY PP	24	X	36					1	1			
	E4-23	26+42	RT	W3-3	STOPLIGHT	36	X	36					1	1			
	E4-24	27+45	RT	--	CITIZENS OF SHEBOYGAN WELCOME YOU; POPULATION		X				1.00				2		
	5-1	29+00	LT	J1-1	JCT; COUNTY TA	24	X	39	6.50						1		
	E5-2	29+47	LT	J1-1	JCT; COUNTY TA	24	X	39					1	1			
	5-3	31+40	LT	R7-1-D	NO PARKING	18	X	24	3.00								MOUNTED ON PROPOSED LIGHT POLE
	5-4	32+65	LT	R2-1	SPEED LIMIT 35	24	X	30	5.00						1		
	5-5	30+04	RT	R7-1-D	NO PARKING	18	X	24	3.00						1		
	E5-6	30+02	RT	--	NO PARKING TRUCK ROUTES		X						1	1			
	E5-7	30+02	RT	--	WINTER PARKING RESTRICTIONS		X						1				
	5-8	32+69	RT	R2-1	SPEED LIMIT 25	24	X	30	5.00						1		
	E5-9	32+68	RT	R2-1	SPEED LIMIT 25	24	X	30					1	1			
	6-1	34+77	LT	R7-1-D	NO PARKING	18	X	24	3.00								MOUNTED ON PROPOSED LIGHT POLE
	E6-2	35+07	LT	R2-1	SPEED LIMIT 35	24	X	30					1	1			
	E6-3	35+07	LT	--	BIKE MAY USE FULL LANE		X						1				
	6-4	38+00	LT	R7-1-D	NO PARKING	18	X	24	3.00								MOUNTED ON PROPOSED LIGHT POLE
	6-5	34+00	RT	R7-1-D	NO PARKING	18	X	24	3.00						1		
	E6-6	37+49	RT	--	RIGHT LANE ENDS		X						1	1			
	6-7	38+00	RT	R7-1-D	NO PARKING	18	X	24	3.00						1		
	7-1	40+74	LT	R3-17	BIKE LANE	30	X	24	5.00						1		
	7-2	41+23	RT	W11-2	PEDESTRIAN CROSSING	30	X	30	6.25						1		
	7-3	41+23	RT	W16-7L	ARROW	24	X	12	2.00								
	7-4	41+37	LT	W11-2	PEDESTRIAN CROSSING	30	X	30	6.25						1		
	7-5	41+37	LT	W11-2	ARROW	24	X	12	2.00								
	7-6	43+96	LT	R7-1-L	NO PARKING	18	X	24	3.00						1		
	7-7	40+79	RT	R3-17	BIKE LANE	30	X	24	5.00						1		
	7-8	40+79	RT	R3-17-B	ENDS	30	X	12	2.50								
	E7-9	40+30	RT	--	INDIANA AVE DIRECTIONS		X				1.00	1.00					
	7-10	41+55	RT	R6-1-R	ONE WAY	36	X	12	3.00						1		
	E7-11	41+48	RT		ONE WAY		X						1	1			
	7-12	41+55	RT	R6-1-L	ONE WAY	36	X	12	3.00								
	7-13	41+96	RT	R6-1-R	ONE WAY	36	X	12	3.00						1		
	E7-14	41+96	RT	--	24TH ST; INDIANA AVE		X						2	1			
	E7-15	42+01	RT	R6-2-L	ONE WAY	36	X	12					2	1			
	7-16	41+96	RT	R6-1-L	ONE WAY	36	X	12	3.00								
	E7-17	42+75	RT	--	SPEED LIMIT 25; SNOW ROUTE		X				2.00	1.00					
	7-18	42+08	RT	R9-3A	NO PEDESTRIAN CROSSING	18	X	18	2.25							1	
	7-19	42+08	RT	R9-3BL	USE CROSSWALK (LEFT ARROW)	18	X	12	1.50								
					TOTALS				457.76	20.72	6	2	54	40	50	1	

3

TRAFFIC CONTROL AND DETOUR ITEMS

CATEGORY	STAGE	STATION - STATION	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH
0010	1	6+16 - 12+50	--	--	1,540	88	--	--	176	--	--	264	--
		12+50 - 20+54	--	--	2,772	440	--	--	748	--	--	352	--
		20+54 - 30+00	--	--	968	176	--	--	264	--	--	88	--
		30+00 - 49+50	--	--	1,276	264	--	--	484	--	--	528	--
		TAYLOR DRIVE - SOUTH	--	--	3,476	220	--	--	440	440	44	616	--
		TAYLOR DRIVE - NORTH	--	--	2,508	44	--	--	88	440	44	396	--
		UNDISTRIBUTED	--	--	--	--	--	--	--	--	--	--	10
		STAGE 1 SUB-TOTALS	0	0	12,540	1,232	0	0	2,200	880	88	2,244	10
0010	2	6+16 - 12+50	--	--	1,518	138	22	22	230	506	--	368	--
		12+50 - 20+54	--	--	1,702	598	29	29	782	--	--	460	--
		20+54 - 30+00	--	--	1,196	184	--	--	368	--	--	184	--
		30+00 - 49+50	--	--	2,576	506	--	--	874	414	--	874	--
		TAYLOR DRIVE - SOUTH	--	--	3,956	276	5	5	506	1,058	46	690	--
		TAYLOR DRIVE - NORTH	313	313	2,392	184	20	20	322	920	46	644	--
		STAGE 2 SUB-TOTALS	313	313	13,340	1,886	76	76	3,082	2,898	92	3,220	0
0020	3	6+16 - 12+50	--	--	720	72	25	25	120	216	--	192	--
		12+50 - 20+54	--	--	768	336	30	30	456	--	--	168	--
		20+54 - 30+00	--	--	336	120	--	--	192	--	--	120	--
		30+00 - 49+50	--	--	552	48	--	--	96	--	--	144	--
		TAYLOR DRIVE - SOUTH	--	--	2,184	168	5	5	288	552	24	384	--
		TAYLOR DRIVE- NORTH	38	38	1,248	96	20	20	168	480	24	336	--
		STAGE 3 SUB-TOTALS	38	38	5,808	840	80	80	1,320	1,248	48	1,344	0
0020	4	6+16 - 12+50	--	--	208	8	--	--	16	80	--	56	--
		12+50 - 20+54	--	--	184	32	--	--	64	--	--	32	--
		20+54 - 30+00	--	--	--	--	--	--	--	--	--	--	--
		30+00 - 49+50	--	--	--	--	--	--	--	--	--	--	--
		TAYLOR DRIVE - SOUTH	--	--	624	40	--	--	80	80	8	112	--
		TAYLOR DRIVE- NORTH	--	--	448	32	--	--	64	80	8	96	--
		STAGE 4 SUB-TOTALS	0	0	1,464	112	0	0	224	240	16	296	0
0020	5	6+16 - 12+50	--	--	98	--	--	--	--	49	--	28	--
		12+50 - 20+54	--	--	--	--	--	--	--	--	--	--	--
		20+54 - 30+00	--	--	--	--	--	--	--	--	--	--	--
		30+00 - 49+50	--	--	--	--	--	--	--	--	--	--	--
		TAYLOR DRIVE - SOUTH	--	--	--	--	--	--	--	--	--	--	--
		TAYLOR DRIVE - NORTH	--	--	--	--	--	--	--	--	--	--	--
		STAGE 5 SUB-TOTALS	0	0	98	0	0	0	0	49	0	28	0
0020		DETOUR ROUTE	--	--	--	--	--	--	--	--	--	8,385	--
		DETOUR ROUTE SUB-TOTAL	0	0	0	0	0	0	0	0	0	8,385	0
		0010 TOTALS	313	313	25,880	3,118	76	76	5,282	3,778	180	5,464	10
		0020 TOTALS	38	38	7,370	952	80	80	1,544	1,537	64	10,053	0
		GRAND TOTALS	351	351	33,250	4,070	156	156	6,826	5,315	244	15,517	10

3

PERMANENT PAVEMENT MARKING ITEMS

CATEGORY	STATION	-	STATION	646.1005 MARKING LINE PAINT 4-INCH YELLOW LF	646.1005 MARKING LINE PAINT 4-INCH WHITE LF	646.1005 MARKING LINE PAINT 4-INCH WHITE SKIP 12.5-FOOT SEG. 37.5-FOOT GAP LF	646.3005 MARKING LINE PAINT 8-INCH WHITE LF	646.5005 MARKING ARROW PAINT EACH	646.5105 MARKING WORD PAINT EACH	646.5205 MARKING SYMBOL PAINT EACH	646.6105 MARKING STOP LINE PAINT 18-INCH LF	646.7105 MARKING DIAGONAL PAINT 12-INCH WHITE LF	646.7105 MARKING DIAGONAL PAINT 12-INCH YELLOW LF	646.7205 MARKING CHEVRON PAINT 24-INCH WHITE LF	646.7405 MARKING CROSSWALK PAINT TRANSVERSE LINE 6-INCH LF	646.8105 MARKING CURB PAINT LF	646.8205 MARKING ISLAND NOSE PAINT EACH
0020	6+16	-	12+50	1,424	1,512	---	---	---	---	---	---	806	---	---	---	10	1
	12+50	-	20+54	1,193	1,237	75	1,275	10	3	---	194	594	---	216	349	40	4
	20+54	-	30+00	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30+00	-	44+27	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	S TAYLOR DRIVE			---	---	150	---	---	---	---	---	---	---	---	---	---	---
	SUB TOTALS			2,617	2,749	225						1,400	---				
	0020 TOTALS				5,591		1,275	10	3	---	194	1,400		216	349	50	5
0010	6+16	-	12+50	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	12+50	-	20+54	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	20+54	-	30+00	1,191	1,754	---	780	9	2	7	---	---	72	125	184	30	3
	30+00	-	44+27	3,019	2,780	---	---	10	---	10	---	---	---	---	128	---	---
	S TAYLOR DRIVE			---	---	---	---	---	---	---	---	---	---	---	---	---	---
	SUB TOTALS			4,210	4,534	---						---	72				
	0010 TOTALS				8,744		780	19	2	17	---	72		125	312	30	3
	GRAND TOTAL				14,335		2,055	29	5	17	194	1,472		341	661	80	8

MARKING REMOVAL ITEMS

CATEGORY	STAGE	STATION - STATION	646.9000 MARKING REMOVAL LINE 4-INCH LF
0020	1	TAYLOR DRIVE - SOUTH	75
		TAYLOR DRIVE - NORTH	75
		TOTALS	150

CONSTRUCTION STAKING

CATEGORY	PROJECT	650.8500 ELECTRICAL INSTALLATIONS LS	650.9910 SUPPLEMENTAL CONTROL LS
0020	4291-02-71	1	1
	TOTALS	1	1

CONSTRUCTION STAKING

CATEGORY	STATION	-	STATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB GUTTER AND CURB & GUTTER LF	650.7000 CONCRETE PAVEMENT LF	650.9920 SLOPE STAKES LF
0020	6+16	-	12+50	422	422	419	--	634
	12+50	-	20+54	1,323	1,323	2,702	--	804
	20+54	-	30+00	1,523	--	--	1,523	946
	30+00	-	42+77	1,278	--	--	1,278	1,277
	S TAYLOR DRIVE			146	146	--	--	146
	S 24TH STREET			80	--	--	80	80
	0020 TOTALS			4,772	1,891	3,121	2,881	3,887

TEMPORARY PAVEMENT MARKING

CATEGORY	STAGE	STATION - STATION	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW) LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH (WHITE) LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW) LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE) LF	649.0205 TEMPORARY MARKING LINE PAINT 8-INCH (WHITE) LF	649.0250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (YELLOW) LF	649.0505 TEMPORARY MARKING ARROW PAINT EACH	649.0550 TEMPORARY MARKING ARROW REMOVABLE TAPE EACH	649.0805 TEMPORARY MARKING STOP LINE PAINT 18-INCH LF	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF
0010	1	6+16 - 12+50	613	---	984	---	---	---	---	---	---	---
		12+50 - 20+54	1,005	---	---	---	189	---	2	---	---	---
		20+54 - 30+00	951	---	---	---	---	---	---	---	---	---
		30+00 - 44+27	1,432	---	---	---	---	---	---	---	---	---
		S TAYLOR DRIVE	---	---	492	---	---	---	1	1	---	---
		STAGE 1 SUB-TOTALS	4,002	---	1,476	---	189	---	3	1	---	---
0010	2	6+16 - 12+50	615	---	844	301	---	---	---	---	---	---
		12+50 - 20+54	1,177	---	---	---	---	66	---	---	11	---
		20+54 - 30+00	---	---	---	936	---	---	---	---	---	---
		30+00 - 44+27	---	---	229	1,441	---	---	---	---	---	---
		S TAYLOR DRIVE	---	---	4,624	1,497	---	---	---	---	---	69
		STAGE 2 SUB-TOTALS	1,792	---	5,697	4,175	---	66	---	---	11	69
0020	3	6+16 - 12+50	---	---	1,498	349	---	---	---	---	---	---
		12+50 - 20+54	---	---	1,152	438	---	---	---	---	---	16
		20+54 - 30+00	---	---	526	---	---	---	---	---	---	---
		30+00 - 44+27	---	---	1,148	---	---	---	---	---	---	---
		S TAYLOR DRIVE	---	---	4,637	1,498	---	66	---	---	---	66
		STAGE 3 SUB-TOTALS	---	---	8,961	2,285	---	66	---	---	---	82
0020	4	6+16 - 12+50	---	---	918	---	---	---	---	---	---	---
		12+50 - 20+54	---	---	---	---	---	---	---	2	---	---
		20+54 - 30+00	---	---	---	---	---	---	---	---	---	---
		30+00 - 44+27	---	---	---	---	---	---	---	---	---	---
		S TAYLOR DRIVE	---	---	---	---	---	---	---	---	---	---
		STAGE 4 SUB-TOTALS	---	---	918	---	---	---	---	2	---	---
0020	5	6+16 - 12+50	---	---	---	332	---	---	---	---	---	---
		12+50 - 20+54	---	---	---	---	---	---	---	---	---	---
		20+54 - 30+00	---	---	---	---	---	---	---	---	---	---
		30+00 - 44+27	---	---	---	---	---	---	---	---	---	---
		S TAYLOR DRIVE	---	---	---	---	---	---	---	---	---	---
		STAGE 5 SUB-TOTALS	---	---	---	332	---	---	---	---	---	---
		0010 TOTALS	5,793		11,348		189	66	3	1	11	69
		0020 TOTALS	---		12,496		---	66	---	2	---	82
		GRAND TOTALS	5,793		23,845		189	132	3	3	11	151

LIGHTING PULL BOXES

CATEGORY	PULL BOX NUMBER	LOCATION** STATION	OFFSET		653.0140* PULL BOXES STEEL 24X42-INCH EACH
0010	PB-0101	19+76.5	74.3'	RT	1
	PB-0102	20+60.5	38.5'	RT	1
	PB-0103	20+60.5	20.0'	RT	1
	PB-0104	20+60.5	63.2'	LT	1
	PB-0201	22+36.5	60.4'	LT	1
	PB-0202	23+26.0	58.2'	LT	1
	PB-0203	24+44.5	51.3'	LT	1
	PB-0204	24+44.5	15.0'	LT	1
	PB-0205	24+44.5	20.0'	RT	1
	PB-0206	24+44.5	37.3'	RT	1
	PB-0501	41+15.0	20.0'	LT	1
	PB-0502	41+15.0	20.0'	RT	1
	PB-0503	41+53.9	37.4'	RT	1
	PB-0504	41+95.1	37.0'	RT	1
	TOTAL				14

*ADDITIONAL QUANTITIES LISTED ELSEWHERE
**FINAL LOCATION TO BE DETRMINED BY THE ENGINEER IN THE FIELD

STREET LIGHTING CONDUIT SUMMARY

CATEGORY	LOCATION FROM	TO	*652.0225 CONDUIT RIGID NON-METALLIC SCHEDULE 40 2-INCH LF	*652.0235 CONDUIT RIGID NON-METALLIC SCHEDULE 40 3-INCH LF
0010	T4	PB-0101	13	--
	PB-0101	PLP-0101	13	--
	PLP-0101	PB-0102	90	--
	PB-0102	PB-0103	--	38
	PB-0103	PB-0104	--	168
	PB-0104	EX. LP-02	44	--
	PB-0104	LP-0101	78	--
	LP-0101	PB-0201	94	--
	PB-0201	PLP-0201	21	--
	PB-0201	LP-0202	71	--
	LP-0202	PB-0202	16	--
	PB-0202	PB-0203		232
	PB-0203	PLP-0203	28	--
	PB-0203	LP-0204	36	--
	LP-0204	LP-0206	171	--
	LP-0206	LP-0301	160	--
	LP-0301	LP-0302	159	--
	LP-0302	LP-0303	165	--
	LP-0303	LP-0304	167	--
	LP-0304	LP-0401	170	--
	LP-0401	LP-0402	161	--
	LP-0402	LP-0403	162	--
	LP-0403	LP-0501	166	--
	LP-0501	PB-0501	148	--
	PB-0501	PB-0502		80
	PB-0502	LP-0502	15	--
	PB-0103	LP-0201	141	--
	LP-0201	LP-0203	192	--
	LP-0203	PB-0205	55	--
	PB-0205	LP-0205	137	--
	PB-0203	PB-0204	--	72
	PB-0204	PB-0205	--	70
	PB-0205	PB-0206	--	36
	PB-0102	PLP-0102	45	--
	PLP-0102	PLP-0202	193	--
	PLP-0202	PB-0206	152	--
	PB-0206	PLP-0204	41	--
	PLP-0204	PLP-0205	169	--
	PLP-0205	PLP-0301	101	--
	PLP-0301	PLP-0302	110	--
	PLP-0302	PLP-0303	105	--
	PLP-0303	PLP-0304	100	--
	PLP-0304	PLP-0305	105	--
	PLP-0305	PLP-0306	100	--
	PLP-0306	PLP-0401	108	--
	PLP-0401	PLP-0402	107	--
	PLP-0402	PLP-0403	105	--
	PLP-0403	PLP-0404	105	--
	PLP-0404	PLP-0405	105	--
	PLP-0405	PLP-0406	105	--
	PLP-0406	PLP-0501	107	--
	PLP-0501	PLP-0502	103	--
	PLP-0502	PB-0503	39	--
	PB-0503	PB-0504	--	82
	PB-0504	PLP-0503	19	--
				--
	TOTALS		4,797	778

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

STREET LIGHTING WIRE SUMMARY

CATEGORY	LOCATION FROM	TO	655.0615* ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0620* ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0630* ELECTRICAL WIRE LIGHTING 4 AWG LF
0010	T-4	PLP-0102	--	--	408
	PLP-0102	PLP-0202	--	--	398
	PLP-0202	PLP-0204	--	--	418
	PLP-0204	PLP-0205	--	--	350
	PLP-0205	PLP-0301	--	--	214
	PLP-0301	PLP-0302	--	--	232
	PLP-0302	PLP-0303	--	--	222
	PLP-0303	PLP-0304	--	--	212
	PLP-0304	PLP-0305	--	--	222
	PLP-0305	PLP-0306	--	--	212
	PLP-0306	PLP-0401	--	--	228
	PLP-0401	PLP-0402	--	--	226
	PLP-0402	PLP-0403	--	--	222
	PLP-0403	PLP-0404	--	--	222
	PLP-0404	PLP-0405	--	--	222
	PLP-0405	PLP-0406	--	--	222
	PLP-0406	PLP-0501	--	--	226
	PLP-0501	PLP-0502	--	--	218
	PLP-0502	PLP-0503	--	--	250
	PLP-0204	PLP-0203	--	--	408
	PLP-0203	PLP-0201	--	--	576
	T-4	LP-0101	720	--	--
	LP-0101	LP-0202	362	--	--
	LP-0202	LP-0204	388	--	--
	LP-0204	LP-0301	674	--	--
	LP-0301	LP-0303	660	--	--
	LP-0303	LP-0401	686	--	--
	LP-0401	LP-0403	658	--	--
	LP-0403	LP-0502	790	--	--
	T-4	LP-0201	658	--	--
	LP-0201	LP-0203	396	--	--
	LP-0203	LP-0205	416	--	--
	LP-0203	LP-0206	738	--	--
	LP-0206	LP-0302	650	--	--
	LP-0302	LP-0304	676	--	--
	LP-0304	LP-0402	674	--	--
	LP-0402	LP-0501	668	--	--
	T-4	PLP-0101	--	98	--
	PLP-0101	EXLP-02	--	546	--
		TOTALS	9,814	644	5,908

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

EQUIPMENT GROUNDING AND GROUNDED CONDUCTORS

CATEGORY	LOCATION FROM	LOCATION TO	655.0615* ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0620* ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0630* ELECTRICAL WIRE LIGHTING 4 AWG LF	REMARKS
0010	T-4	PLP-0102	--	--	204	
	PLP-0102	PLP-0202	--	--	199	
	PLP-0202	PLP-0204	--	--	209	
	PLP-0204	PLP-0205	--	--	175	
	PLP-0205	PLP-0301	--	--	107	
	PLP-0301	PLP-0302	--	--	116	
	PLP-0302	PLP-0303	--	--	111	
	PLP-0303	PLP-0304	--	--	106	
	PLP-0304	PLP-0305	--	--	111	
	PLP-0305	PLP-0306	--	--	106	
	PLP-0306	PLP-0401	--	--	114	
	PLP-0401	PLP-0402	--	--	113	
	PLP-0402	PLP-0403	--	--	111	
	PLP-0403	PLP-0404	--	--	111	
	PLP-0404	PLP-0405	--	--	111	
	PLP-0405	PLP-0406	--	--	111	
	PLP-0406	PLP-0501	--	--	113	
	PLP-0501	PLP-0502	--	--	109	
	PLP-0502	PLP-0503	--	--	125	
	PLP-0204	PLP-0203	--	--	204	
	PLP-0203	PLP-0201	--	--	288	
	LP-0201	LP-0101	329	--	--	
	LP-0101	LP-0202	181	--	--	
	LP-0202	LP-0204	194	--	--	
	LP-0204	LP-0206	177		--	
	LP-0206	LP-0301	166	--	--	
	LP-0301	LP-0302	165	--	--	
	LP-0302	LP-0303	171	--	--	
	LP-0303	LP-0304	173	--	--	
	LP-0304	LP-0401	176	--	--	
	LP-0401	LP-0402	167	--	--	
	LP-0402	LP-0403	168	--	--	
	LP-0403	LP-0501	172	--	--	
	LP-0501	LP-0502	229	--	--	
	T-4	LP-0201	329	--	--	
	LP-0201	LP-0203	198	--	--	
	LP-0203	LP-0205	208	--	--	
	T-4	PLP-0101	-	59	--	
	PLP-0101	EXLP-02	-	273	--	
	PB-0101	PLP-0101	35	--	--	
	PB-0102		19	--	--	INSTALL PULL BOX TAP TO 10 AWG GROUNDING CONDUCTOR SYSTEM GROUND
	PB-0103		19	--	--	INSTALL PULL BOX TAP TO 10 AWG GROUNDING CONDUCTOR SYSTEM GROUND
	PB-0104		19	--	--	INSTALL PULL BOX TAP TO 10 AWG GROUNDING CONDUCTOR SYSTEM GROUND
	PB-0201	PLP-0201	43	--	--	
	PB-0202	LP-0202	38	--	--	
	PB-0203	PLP-0203	50	--	--	
	PB-0204		19	--	--	INSTALL PULL BOX TAP TO 4 AWG GROUNDING CONDUCTOR SYSTEM GROUND
	PB-0205		19	--	--	INSTALL PULL BOX TAP TO 4 AWG GROUNDING CONDUCTOR SYSTEM GROUND
	PB-0206	PLP-0204	63	--	--	
	PB-0501		19	--	--	INSTALL PULL BOX TAP TO 10 AWG GROUNDING CONDUCTOR SYSTEM GROUND
	PB-0502	LP-0502	37	--	--	
	PB-0503	PLP-0502	61	--	--	
	PB-0504	PLP-0503	41	--	--	
				--	--	
	TOTALS		3,685	332	2,954	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

3

PATH AND STREET LIGHTING SUMMARY

CATEGORY	LP. NO.	STATION	LOCATION	SPV.0060.09 LIGHT POLE CONCRETE BASE TYPE A EACH	SPV.0060.10 LIGHT POLE CONCRETE BASE TYPE B EACH	SPV.0060.11 PATH LIGHTING ASSEMBLY 14-FOOT POLE EACH	SPV.0060.12 ROAD LIGHITNG ASSEMBLY 30-FOOT POLE EACH	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG (GROUND) LF	SPV.0060.13 SALVAGE AND RELOCATE EXISTING PATH LIGHT POLE EACH	SPV.0060.14 INTERCEPT EXISTING CONDUIT EACH
	T4	19+72.00	88.50' RT	--	--	--	--	--	--	--	1
0010	EXLP-02	20+29.25	95.35' LT	--	--	--	--	42	21	--	1
	PLP-0101	19+80.50	62.00' RT	1	--	--	--	42	21	1	--
	PLP-0102	21+05.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0201	22+25.00	78.20' LT	1	--	1	--	42	21	--	--
	PLP-0202	22+95.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0203	24+25.00	70.68' LT	1	--	1	--	42	21	--	--
	PLP-0204	24+85.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0205	26+50.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0301	27+50.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0302	28+60.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0303	29+65.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0304	30+65.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0305	31+70.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0306	32+70.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0401	33+78.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0402	34+85.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0403	35+90.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0404	36+95.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0405	38+00.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0406	39+05.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0501	40+12.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0502	41+15.00	37.25' RT	1	--	1	--	42	21	--	--
	PLP-0503	42+15.00	37.25' RT	1	--	1	--	42	21	--	--
	LP-0101	21+40.00	62.25' LT	--	1	--	1	74	37	--	--
	LP-0201	22+00.00	20.00' RT	--	1	--	1	74	37	--	--
	LP-0202	23+10.00	58.62' LT	--	1	--	1	74	37	--	--
	LP-0203	23+90.00	20.00' RT	--	1	--	1	74	37	--	--
	LP-0204	24+80.00	43.48' LT	--	1	--	1	74	37	--	--
	LP-0205	25+80.00	20.00' RT	--	1	--	1	74	37	--	--
	LP-0206	26+54.00	32.78' LT	--	1	--	1	74	37	--	--
	LP-0301	28+16.00	23.45' LT	--	1	--	1	74	37	--	--
	LP-0302	29+75.00	20.00' LT	--	1	--	1	74	37	--	--
	LP-0303	31+40.00	20.00' LT	--	1	--	1	74	37	--	--
	LP-0304	33+07.00	20.00' LT	--	1	--	1	74	37	--	--
	LP-0401	34+77.00	20.00' LT	--	1	--	1	74	37	--	--
	LP-0402	36+38.00	20.00' LT	--	1	--	1	74	37	--	--
	LP-0403	38+00.00	20.00' LT	--	1	--	1	74	37	--	--
	LP-0501	39+66.00	20.00' LT	--	1	--	1	74	37	--	--
	LP-0502	41+30.00	20.00' RT	--	1	--	1	74	37	--	--
	TOTAL			22	16	21	16	2,150	1,075	1	2

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

TRAFFIC SIGNAL CONDUIT SUMMARY

CATEGORY	INTERSECTION	FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
0020	CTH PP & TAYLOR DRIVE	CB1	PB1	--	36
		PB1	PB2	--	140
		PB2	PB3	--	100
		PB3	PB4	54	54
		PB4	PB5	185	185
		PB5	PB6	200	200
		PB6	PB7	100	100
		PB7	PB8	100	100
		PB8	PB9	90	90
		PB9	PB10	185	185
		PB10	PB11	76	76
		PB11	CB1	18	18
		PB1	SB1	16	--
		PB3	SB2	--	8
		PB4	SB3	8	--
		PB5	SB4	--	22
		PB6	SB5	17	--
		PB7	SB6	18	--
		PB8	SB7	--	21
		PB9	SB8	11	--
		PB11	SB9	--	12
			TOTALS	1,078	1,347

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

REMOVING PULL BOXES

CATEGORY		PULL BOX NO.	STATION	LOCATION	653.0905 EACH
0010	CTH PP & TAYLOR DRIVE	EXPB1	108+49 TA	61' LT	1
		EXPB2	108+53 TA	7' LT	1
		EXPB3	111+78 TA	15' LT	1
		EXPB4	108+72 TA	36' RT	1
		EXPB5	20+43	67' LT	1
		EXPB6	21+98	59' LT	1
		EXPB7	23+20	53' LT	1
		EXPB8	20+38	8' LT	1
		EXPB9	20+30	29' RT	1
		EXPB10	106+90 TA	35' RT	1
		EXPB11	103+64 TA	29' RT	1
		EXPB12	106+79 TA	20' LT	1
		EXPB13	106+68 TA	72' LT	1
		EXPB14	18+40	51' RT	1
		EXPB15	15+66	46' RT	1
		EXPB16	18+39	14' LT	1
		EXPB17	18+52	60' LT	1
				TOTAL	17

TRAFFIC SIGNAL PULL BOX SUMMARY

CATEGORY	INTERSECTION	PULL BOX NO.	LOCATION** STATION	OFFSET		653.0140* PULL BOXES STEEL 24X42-INCH EACH
0020	CTH PP & TAYLOR DRIVE	PB1	108+17.5 TA	74.0	LT	1
		PB2	108+37.4 TA	7.9	LT	1
		PB3	108+56.9	39.4	RT	1
		PB4	20+29.7	66.4	LT	1
		PB5	20+17.1	24.8	RT	1
		PB6	106+71.7 TA	32.3	RT	1
		PB7	106+71.0 TA	18.8	LT	1
		PB8	106+60.7 TA	67.8	LT	1
		PB9	18+28.4	36.0	RT	1
		PB10	18+33.4	57.1	LT	1
		PB11	18+70.4	70.4	LT	1
				TOTAL		11

*ADDITIONAL QUANTITIES LISTED ELSEWHERE
**FINAL LOCATION TO BE DETRMINED BY THE ENGINEER IN THE FIELD

CONCRETE BASES

CATEGORY	INTERSECTION	SB NO.	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0113 CONCRETE BASES TYPE 13 EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH	SPV.0060.04 UTILITY LINE OPENING (ULO) EACH
0010	CTH PP & TAYLOR DRIVE	SB6	106+88.7 TA	18.7 LT	1	--	--	--	--
				0010 TOTALS	1	--	--	--	--
0020	CTH PP & TAYLOR DRIVE	CB1	108+11.4 TA	84.5 LT	--	--	--	1	--
		SB1	108+32.6 TA	68.6 LT	--	1	--	--	--
		SB2	108+64.4 TA	41.0 RT	--	--	1	--	1
		SB3	20+22.3	70.0 LT	--	1	--	--	--
		SB4	19+96.0	29.9 RT	--	--	1	--	1
		SB5	106+88.2 TA	36.7 RT	--	1	--	--	--
		SB7	106+80.1 TA	74.7 LT	--	--	1	--	1
		SB8	18+38.7	38.2 RT	--	1	--	--	--
		SB9	18+62.0	62.2 LT	--	--	1	--	1
				0020 TOTALS	--	4	4	1	4
				GRAND TOTALS	1	4	4	1	4

3

TRAFFIC SIGNAL LIGHTING WIRE SUMMARY

CATEGORY	INTERSECTIONS	LOCATION FROM	LOCATION TO	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED LF	655.061* ELECTRICAL WIRE LIGHTING 12 AWG LF
0020	CTH PP & TAYLOR DRIVE	CB1	SB1	60	--
		SB1	LUMN	--	117
		CB1	SB2	204	--
		SB2	LUMN	--	117
		SB2	SB3	75	--
		SB3	LUMN	--	117
		CB1	SB9	50	--
		SB9	LUMN	--	117
		CB1	SB8	211	--
		SB8	LUMN	--	117
		SB8	SB7	109	--
		SB7	LUMN	--	117
		CB1	SB4	353	--
		SB4	LUMN	--	117
		SB4	SB5	171	--
		SB5	LUMN	--	117
			TOTALS	1233	936

ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG

CATEGORY	INTERSECTION	FROM	TO	655.0515 LF
0020	CTH PP & TAYLOR DRIVE	CB1	SB1	63
		SB1	SB2	200
		SB2	SB3	81
		SB3	SB4	160
		SB4	SB5	175
		SB5	SB6	125
		SB6	SB7	105
		SB7	SB8	125
		SB8	SB9	205
		SB9	CB1	53
		PB1	SB1	265
		PB2	SB2	94
		PB3	SB2	27
		PB4	SB3	27
		PB5	SB4	41
		PB6	SB5	36
		PB7	SB6	37
		PB8	SB7	40
		PB9	SB8	30
		PB10	CB1	76
		PB11	CB1	22
			TOTAL	1,987

ELECTRICAL SERVICE METER BREAKER PEDESTAL

CATEGORY	BASE NO.	LOCATION	656.0200.01* LS
0020	CB1	CTH PP & TAYLOR DRIVE	1

*FINAL LOCATION TO BE DETERMINED BY THE FIELD ENGINEER

TRAFFIC SIGNAL BASES, POLES, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES

CATEGORY	INTERSECTION	SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2 INCH BOLT CIRCLE EACH	657.0310 POLES TYPE 3 EACH	657.0405 TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5-FT EACH	657.0360 POLES TYPE 13 EACH	657.0555 MONOTUBE ARMS 55-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	657.0806 LUMINAIRE ARMS STEEL 6-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
0010		SB6	1	--	--	1	--	--	--	1	--	--
		0010 TOTALS	1	--	--	1	--	--	--	1	--	--
0020	CTH PP & TAYLOR DRIVE	SB1	--	1	1	--	--	--	1	--	--	1
		SB2	--	--	--	--	1	1	--	--	1	1
		SB3	--	1	1	--	--	--	1	1	--	1
		SB4	--	--	--	--	1	1	--	1	1	1
		SB5	--	1	1	--	--	--	1	1	--	1
		SB7	--	--	--	--	1	1	--	1	1	1
		SB8	--	1	1	--	--	--	1	--	--	1
		SB9	--	--	--	--	1	1	--	--	1	1
		0020 TOTALS	--	4	4	--	4	4	4	4	4	8
		GRAND TOTALS	1	4	4	1	4	4	4	5	4	8

3

3

TRAFFIC SIGNAL CABLE SUMMARY

CATEGORY	INTERSECTIONS	FROM	TO	655.0230 5-14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260 12-14 AWG LF	655.0263 15-14 AWG LF
0020	CTH PP & TAYLOR DRIVE	CB1	SB1	--	--	60	--
		SB1	HEAD 4	22	--	--	--
		SB1	HEAD 6	19	--	--	--
		CB1	SB2	--	--	205	--
		SB2	HEAD 2	61	--	--	--
		SB2	HEAD 3	49	--	--	--
		SB2	HEAD 5	78	--	--	--
		CB1	SB3	--	--	--	245
		SB3	HEAD 14	22	--	--	--
		SB3	HEAD 16	--	23	--	--
		SB3	HEAD 24	14	--	--	--
		CB1	SB4	--	--	370	--
		SB4	HEAD 12	47	--	--	--
		SB4	HEAD 13	37	--	--	--
		SB4	HEAD 15	78	--	--	--
		SB4	HEAD 23	14	--	--	--
		CB1	SB5	--	--	410	--
		SB5	HEAD 1	19	--	--	--
		SB5	HEAD 9	22	--	--	--
		SB5	HEAD 22	14	--	--	--
		CB1	SB6	--	345	--	--
		CB1	SB7	--	--	280	--
		SB7	HEAD 7	66	--	--	--
		SB7	HEAD 8	54	--	--	--
		SB7	HEAD 10	79	--	--	--
		SB7	HEAD 21	14	--	--	--
		CB1	SB8	--	--	210	--
		SB8	HEAD 11	19	--	--	--
		SB8	HEAD 19	22	--	--	--
		CB1	SB9	--	--	50	--
		SB9	HEAD 17	49	--	--	--
		SB9	HEAD 18	42	42	--	--
		SB9	HEAD 20	81	--	--	--
			TOTALS	922	410	1,585	245

TRAFFIC SIGNAL FACES SUMMARY

CATEGORY	INTERSECTION	SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0175 TRAFFIC SIGNAL FACE 5S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
0010	CTH PP & TAYLOR DRIVE	21	SB7	--	--	--	1
		22	SB5	--	--	--	1
		23	SB4	--	--	--	1
		24	SB3	--	--	--	1
			0010 TOTALS	--	--	--	4
0020	CTH PP & TAYLOR DRIVE	1	SB5	1	--	--	--
		2	SB2	1	--	--	--
		3	SB2	1	--	--	--
		4	SB1	--	1	--	--
		5	SB2	--	1	--	--
		6	SB1	1	--	--	--
		7	SB7	1	--	--	--
		8	SB7	1	--	--	--
		9	SB5	--	1	--	--
		10	SB7	--	1	--	--
		11	SB8	1	--	--	--
		12	SB4	1	--	--	--
		13	SB4	1	--	--	--
		14	SB3	--	1	--	--
		15	SB4	--	1	--	--
		16	SB3	--	--	1	--
		17	SB9	1	--	--	--
		18	SB9	--	--	1	--
		19	SB8	--	1	--	--
		20	SB9	--	1	--	--
			0020 TOTALS	10	8	2	--
			GRAND TOTALS	10	8	2	4

TRAFFIC SIGNAL MOUNTING HARDWARE

CATEGORY	LOCATION	658.5069.01 LS
0020	CTH PP & TAYLOR DRIVE	1

REMOVE TRAFFIC SIGNALS

CATEGORY	LOCATION	SPV.0060.05 LS
0010	CTH PP & TAYLOR DRIVE	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

CATEGORY	LOCATION	661.0200.01 LS
0020	CTH PP & TAYLOR DRIVE	1

VIDEO DETECTION SYSTEM

CATEGORY	LOCATION	SPV.0060.07 LS
0020	CTH PP & TAYLOR DRIVE	1

TRAFFIC SIGNAL CONTROLLER AND CABINET

CATEGORY	LOCATION	SPV.0060.06 EA
0020	CTH PP & TAYLOR DRIVE	1

EMERGENCY VEHICLE PREEMPTION SYSTEM

CATEGORY	LOCATION	SPV.0060.08 LS
0020	CTH PP & TAYLOR DRIVE	1

3

3

SAWING EXISTING PAVEMENT

CATEGORY	STATION		STATION	LOCATION	690.0150* SAWING ASPHALT LF STAGE 1	STAGE 2	STAGE 3	STAGE 5	690.0250* SAWING CONCRETE LF STAGE 1	STAGE 2	STAGE 3	STAGE 5
0020	6+16	-	12+50	RT & LT	---	76	27	277	---	52	68	---
	12+50	-	20+54	RT & LT	---	---	---	---	---	183	117	---
	20+54	-	30+00	RT & LT	30	---	---	---	1,011	---	---	---
	30+00	-	44+27	RT & LT	42	---	---	---	1,849	63	---	---
	SUB-TOTALS				72	76	27	277	2,860	298	185	---
	0020 TOTALS					452				3,343		
0010	6+16	-	12+50	RT & LT	---	---	---	10	---	21	---	---
	12+50	-	20+54	RT & LT	---	23	10	---	---	22	---	---
	20+54	-	30+00	RT & LT	---	89	---	---	---	9	---	---
	30+00	-	44+27	RT & LT	---	76	---	---	18	25	---	---
	SUB-TOTALS				---	188	10	10	18	77	---	---
	0010 TOTALS					208				95		
	GRAND TOTALS					660				3,438		

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

SANITARY STRUCTURES SUMMARY

CATEGORY	MH NO.	STATION	LOCATION	SPV.0060.17 ADJUSTING SANITARY MANHOLES EACH	SPV.0060.18 RECONSTRUCT EXISTING SANITARY SEWER STRUCTURE EACH	SPV.0060.19 4-FOOT SANITARY SEWER MANHOLE EACH
0030	MH 6	17+85.56	25.91' RT	--	1	--
	MH 5	19+82.58	15.8' RT	--	--	1
	MH 4	21+79.64	10.77' RT	--	1	--
	MH 3	23+75.35	10.33' RT	--	1	--
	MH 48	26+04.05	1.72' LT	--	1	--
	MH 49	29+45	RT	1	--	--
	MH 50	32+45	RT	1	--	--
	MH 51	33+46.65	18.55' RT	--	1	--
	MH 51A	35+19.55	18.80' RT	--	1	--
	MH 52	37+12.15	17.80' RT	--	1	--
	MH 53	39+05.5	18.46' RT	--	1	--
	MH 54	41+78	RT	1	--	--
	MH 01	41+90	LT	1	--	--
	0030 TOTALS			4	8	1

SANITARY SEWER SUMMARY

CATEGORY	FROM	TO	SPV.0090.06 TELEVISING SANITARY SEWER LF	SPV.0090.07 SANITARY SEWER CURED-IN-PLACE LINER LF	SPV.0090.08 SANITARY SEWER 10-INCH LF	SPV.0090.09 SANITARY SEWER SPOT REPAIR LF
0030	MH6	MH5	199	199	10	--
	MH5	MH4	198	198	10	--
	MH4	MH3	198	198	--	--
	MH3	MH31	98	98	--	--
	UNDISTRIBUTED		--	--	--	100
	0030 TOTALS		693	693	20	100

REMOVE AND RESET DECORATIVE BOULDERS

CATEGORY	STATION - STATION			LOCATION	SPV.0060.20 EACH
0020	23+50	-	24+25	LT	5
	TOTAL				5

FENCE CHAIN LINK POLYMER-COATED 6-FOOT

CATEGORY	STATION - STATION			LOCATION	SPV.0090.03 FENCE CHAIN LINK POLYMER-COATED 6-FOOT LF
0010	6+16	-	12+50	RT	25
	12+50	-	20+54	RT	25
	20+54	-	30+00	RT	--
	30+00	-	44+27	RT	--
	TOTAL				50

3

WATER MAIN APPURTENANCES SUMMARY

CATEGORY	STATION	LOCATION	SPV.0060.02 ADJUSTING VALVE BOX EACH	SPV.0060.21 12-INCH GATE VALVE AND VALVE BOX EACH	SPV.0060.22 6-INCH GATE VALVE AND VALVE BOX EACH	SPV.0060.23 FIRE HYDRANT ASSEMBLY EACH
0040	17+72	21.7' RT	--	1	--	--
	21+17	31.3' LT	--	--	1	--
	21+17	63.8' LT	--	--	--	1
	25+43	28.2' LT	--	1	--	--
	25+49	29.9' LT	--	--	1	--
	25+50	50.0' LT	--	--	--	1
	30+52	12.2' LT	--	--	1	--
	30+53	31.8' LT	--	--	--	1
	33+15	4.0' LT	--	1	--	--
	33+20	1.9' LT	--	--	1	--
	34+96	29.1' LT	--	--	--	1
	34+97	6.6' LT	--	--	1	--
	40+24	6.4' LT	1	--	--	--
	40+32	10.0' LT	1	--	--	--
	40+56	18.8' LT	--	--	1	--
	40+56	23.5' LT	--	--	--	1
	41+57	25.7' LT	1	--	--	--
	41+75	10.8' LT	1	--	--	--
	UNDISTRIBUTED		4	--	--	--
	TOTALS		8	3	6	5

WATER MAIN SUMMARY

CATEGORY	STATION - STATION	LOCATION	SPV.0090.10 12-INCH PVC WATER MAIN LF	SPV.0090.11 8-INCH PVC WATER MAIN LF	SPV.0090.12 6-INCH PVC WATER MAIN LF	SPV.0060.25 SOUTH TAYLOR DRIVE CROSSING EACH	SPV.0060.26 BOX CULVERT CROSSING EACH
0040	17+75 - 17+74	RT	--	10	--	--	--
	17+74 - 40+99	LT/RT	2,368	--	--	--	--
	21+17 - 21+17	LT	--	--	34	--	--
	25+29 - 25+50	LT	--	--	22	--	--
	30+52 - 30+53	LT	--	--	22	--	--
	33+20 - 33+20	LT/RT	--	--	38	--	--
	34+96 - 34+97	LT	--	--	25	--	--
	40+21 - 40+21	LT	--	4	-	--	--
	40+56 - 40+56	LT	--	-	8	--	--
	18+50 - 20+25	LT/RT	--	--	--	1	--
	24+73 - 25+06	LT	--	--	--	--	1
	TOTALS		2,368	14	149	1	1

3

WATER SERVICES SUMMARY

CATEGORY	STATION	SPV.0060.24 SERVICE CONNECTION EACH	SPV.0090.13 WATER SERVICE LF
0040	25+00	1	47
	26+85	1	60
	27+69	1	36
	28+88	1	36
	30+62	1	37
	33+66	1	36
	36+01	1	17
	37+02	1	17
	38+88	1	19
	39+24	1	19
		10	324

STRUCTURE B-59-48 SUMMARY OF QUANTITIES (FOR INFORMATION ONLY)

BID ITEM NUMBER	BID ITEMS	CATEGORY 0010	CATEGORY 0020	TOTAL	UNIT
203.0211.S	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-59-0048	--	1	1	EACH
502.0100	CONCRETE MASONRY BRIDGES	110	12	122	CY
502.3200	PROTECTIVE SURFACE TREATMENT	380	380	760	SY
502.3210	PIGMENTED SURFACE SEALER	309	71	380	SY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	56	--	56	EACH
502.4206	ADHESIVE ANCHORS NO. 6 BAR	422	--	422	EACH
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	11,060	--	11,060	LB
509.1200	CURB REPAIR	254	443	697	LF
509.1500	CONCRETE SURFACE REPAIR	80	578	658	SF
509.9020.S	EPOXY CRACK SEALING	--	36	36	LF
509.9050.S	CLEANING PARAPETS	254	262	516	LF
513.9006.S	REMOVING AND RESETTING TUBULAR RAILING B-59-0048	0.5	0.5	1	EACH
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	1	--	1	EACH
SPV.0035.01	CONCRETE SURFACE REPAIR CORROSION INHIBITING ADMIXTURE	2	11	13	CY
SPV.0060.15	CLEANING AND PAINTING BEARINGS	--	60	60	EACH
SPV.0060.16	STEEL EXPANSION JOINT COVER PLATE REPAIRS	--	2	2	EACH
SPV.0090.04	STRIP SEAL GLAND REPLACEMENT	--	288	288	LF
SPV.0090.05	SIDEWALK COVER PLATE	32	--	32	LF
	NON-BID ITEMS				
	FILLER	--	--	1/2", 3/4"	SIZE

CONVENTIONAL SYMBOLS

- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- NEW REFERENCE LINE
- NEW R/W LINE
- EXISTING R/W LINE
- PROPERTY LINE
- LOT, TIE, AND OTHER MINOR LINES
- SLOPE INTERCEPT
- CORPORATE LIMITS
- UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPE)
- FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
- TEMP. LIMITED EASEMENT AREA
- EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
- TRANSMISSION STRUCTURES
- BUILDING
- BUILDING (TO BE REMOVED)
- BRIDGE

- PARCEL NUMBER (25)
- UTILITY NUMBER (40)
- SECTION CORNER (18, 23, 24, 16, 15, 9)
- R/W MONUMENT
- NON-MONUMENTED R/W POINT
- NOTATION FOR COMBUSTABLE FLUIDS (CAUTION)
- FOUND IRON PIN
- VALVE (GAS, WATER, ETC.) (TYPE)
- NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES (CAUTION)
- SIGN
- OFF-PREMISE SIGN (41-25)

- ACCESS CONTROLLED BY ACQUISITION
- NO ACCESS (BY STATUTORY AUTHORITY)
- ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
- NO ACCESS (NEW HIGHWAY)
- NATIONAL GEODETIC SURVEY MONUMENT
- SIXTEENTH CORNER MONUMENT
- PARALLEL OFFSETS

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS
ELECTRIC TOWER	

	NON-COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		

CURVE DATA ABBREVIATIONS

LONG CHORD	LC
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

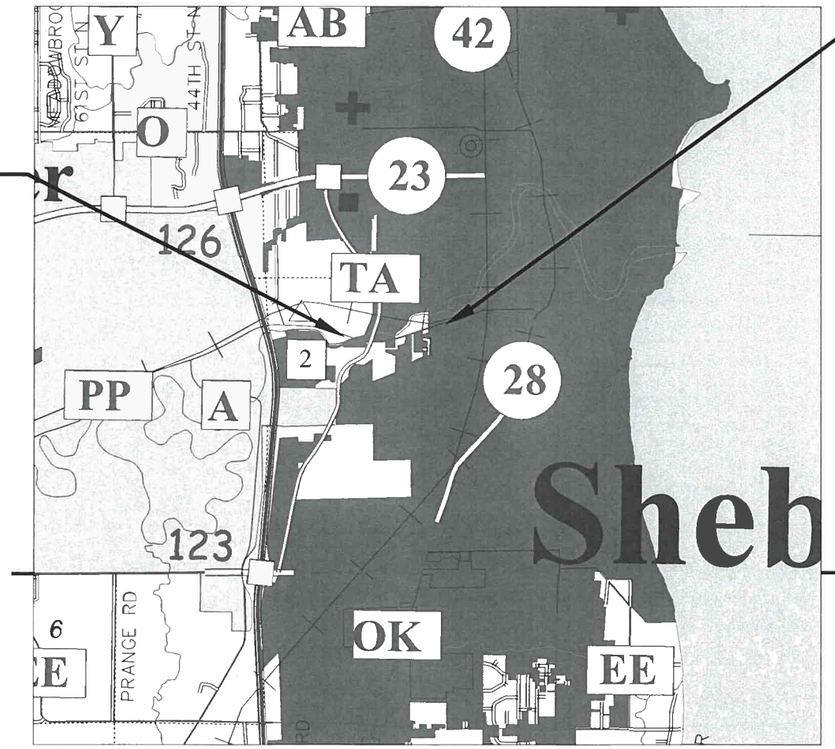
CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	OUTLOT	OL
ACRES	AC	PAGE	P
AHEAD	AH	POINT OF TANGENCY	PT
ALUMINUM	ALUM	PROPERTY LINE	PL
AND OTHERS	ET AL	RECORDED AS	(100')
BACK	BK	REEL / IMAGE	R/I
BLOCK	BLK	REFERENCE LINE	R/L
CENTERLINE	C/L	PERMANENT LIMITED EASEMENT	PLE
CERTIFIED SURVEY MAP	CSM	POINT OF BEGINNING	POB
CONCRETE	CONC	POINT OF CURVATURE	PC
COUNTY	CO	POINT OF COMPOUND CURVE	PCC
COUNTY TRUNK HIGHWAY	CTH	POINT OF INTERSECTION	PI
DISTANCE	DIST	REMAINING	REM
CORNER	COR	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
DOCUMENT NUMBER	DOC	RIGHT	RT
EASEMENT	EASE	RIGHT OF WAY	R/W
EXISTING	EX	SECTION	SEC
GAS VALVE	GV	SEPTIC VENT	SEPV
GRID NORTH	GN	SQUARE FEET	SF
HIGHWAY EASEMENT	HE	STATE TRUNK HIGHWAY	STH
IDENTIFICATION	ID	STATION	STA
LAND CONTRACT	LC	TELEPHONE PEDESTAL	TP
LEFT	LT	TEMPORARY LIMITED EASEMENT	TLE
MONUMENT	MON	TRANSPORTATION PROJECT PLAT	TPP
NATIONAL GEODETIC SURVEY	NGS	UNITED STATES HIGHWAY	USH
NUMBER	NO	VOLUME	V

BEGIN RELOCATION ORDER

Y - 172781.586
X - 209882.763
LOCATED 2269.28 FEET SOUTH AND 690.59 FEET
EAST OF THE N 1/4 CORNER OF SECTION 28
TOWNSHIP 15 NORTH, RANGE 23 EAST

R-23-E



T-14-N

T-13-N

N

END RELOCATION ORDER

Y - 173250.982
X - 212837.679
LOCATED 904.05 FEET NORTH AND 1000.13 FEET
EAST OF THE WEST 1/4 CORNER OF SECTION 27
TOWNSHIP 15 NORTH, RANGE 23 EAST

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE SHEBOYGAN COUNTY COORDINATES, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" X 18" IRON PIPE WEIGHING 1.13 LBS./LIN. FT.), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

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 THE PLATE ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATION LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LIENS, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AND ACCURATE FIELD SURVEY.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE DETAIL PAGES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDED THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS ND 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. THE TLE'S DEPICTED ON THIS PLAT SHALL EXPIRE UPON COMPLETION OF EACH TASK.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE DETAIL PAGES.

LAYOUT
SCALE 0 — 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.60

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.

PROJECT NUMBER: 4291-02-00	SHEET NUMBER	TOTAL SHEETS
	4.1	5

PLAT OF RIGHT OF WAY REQUIRED FOR

CTH PP

ESSLINGEN PARK - S 24 TH ST.

CTH PP (INDANA AVE.)	SHEBOYGAN

ORIGINAL PLANS PREPARED BY

SHEBOYGAN COUNTY WISCONSIN

WISCONSIN
JEREMY J. HILDEBRAND
S-3163
OOSTBURG, WI
LAND SURVEYOR

DATE: 2/8/21 (Professional Land Surveyor)

REVISION DATE
7/15/2021

SHEBOYGAN COUNTY
DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

APPROVED FOR THE DEPARTMENT
DATE: 2/8/2021 (Signature)

FILE NAME : P:\CIVIL 3D DRAWINGS\CTH PP - 36TH ST TO 24TH ST\CAD\CTH PP 36TH TO 24TH.DWG

PLOT DATE : 2/8/2021 8:56 AM

PLOT BY : JEREMY J. HILDEBRAND

PLOT NAME :

4

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW SF	R/W EXISTING SF	R/W TOTAL SF	TLE ACRE
10	SHEBOYGAN COUNTY	TLE	--	--	--	0.010
11	JOHN HOPPERT	TLE	--	--	--	0.007
12	COUNTY OF SHEBOYGAN	TLE	--	--	--	0.110
13	JEFFREY T. FREYE TRUST	TLE	--	--	--	0.007
15	DAN S. KOEPPEN	TLE	--	--	--	0.023
16	MICHAEL J & LINDA M HOLFELTZ	TLE	--	--	--	0.063
17	KYLE M HOLFELTZ	TLE	--	--	--	0.029
19	CITY OF SHEBOYGAN	TLE	--	--	--	0.028
20	FRANCISCO V. RIOS	TLE	--	--	--	0.019
21	DORIS A. LAVAKE	TLE	--	--	--	0.013
22	HAROLD LANCOUR	TLE	--	--	--	0.014
23	SHAUN P & CORRINE L. BRACHMANN	TLE	--	--	--	0.001
24	MARK D. ZIMMERMAN	TLE	--	--	--	0.012

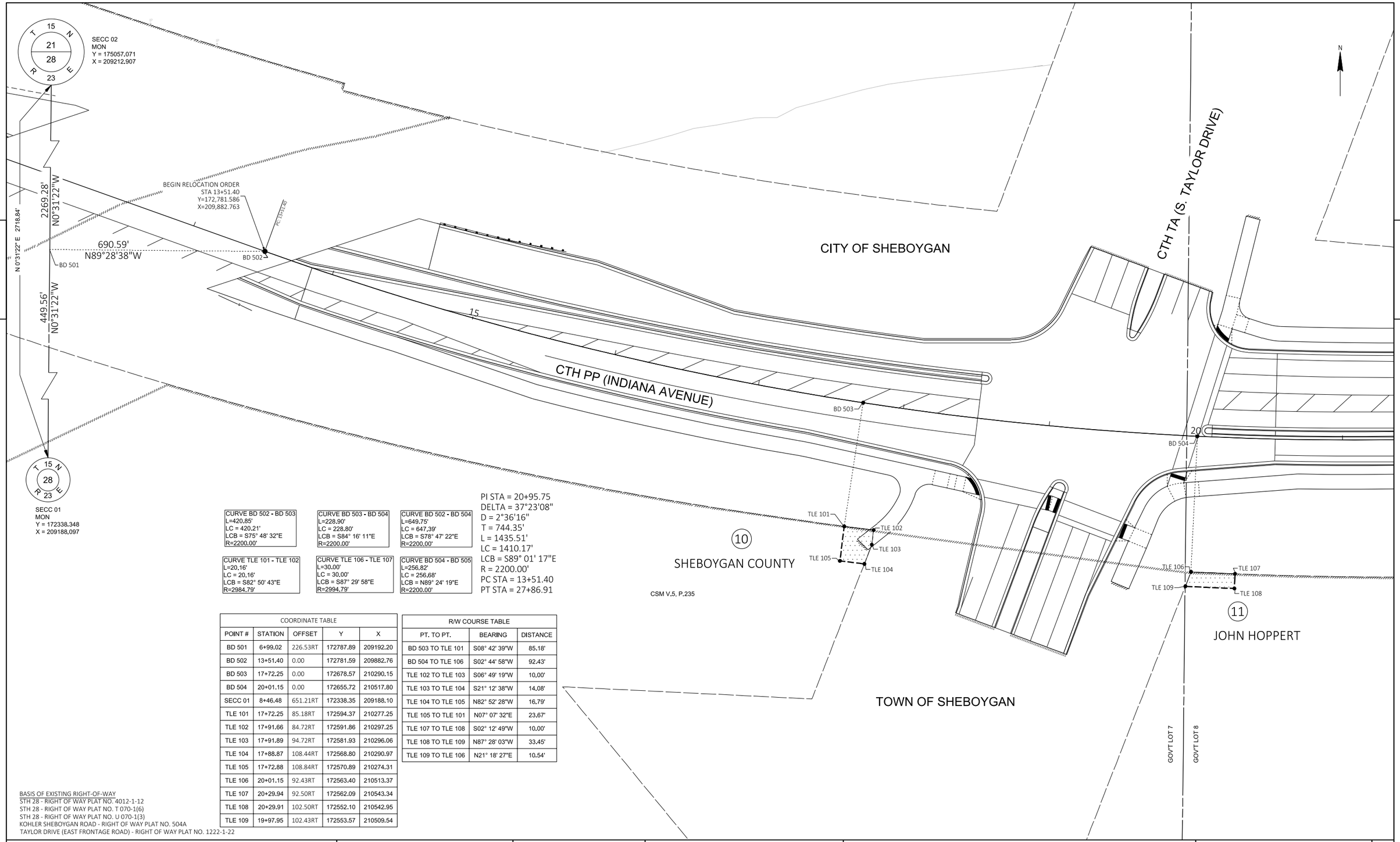
4

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

REVISION DATE	DATE 2/8/21	SCALE, FEET 0 30 60	HWY: CTH PP	STATE R/W PROJECT NUMBER 4291-02-00	PLAT SHEET 4. 2
	GRID FACTOR N/A		COUNTY: SHEBOYGAN	CONSTRUCTION PROJECT NUMBER --	PS&E SHEET -- 231 E

FILE NAME : CTH PP 36TH TO 24TH.DWG
LAYOUT NAME - 4.2

PLOT DATE : 7/20/2021 1:53 PM PLOT BY : JEREMY J. HILDEBRAND PLOT NAME : PLOT SCALE : 1 IN:20 FT_1



COORDINATE TABLE				
POINT #	STATION	OFFSET	Y	X
BD 501	6+99.02	226.53RT	172787.89	209192.20
BD 502	13+51.40	0.00	172781.59	209882.76
BD 503	17+72.25	0.00	172678.57	210290.15
BD 504	20+01.15	0.00	172655.72	210517.80
SECC 01	8+46.48	651.21RT	172338.35	209188.10
TLE 101	17+72.25	85.18RT	172594.37	210277.25
TLE 102	17+91.66	84.72RT	172591.86	210297.25
TLE 103	17+91.89	94.72RT	172581.93	210296.06
TLE 104	17+88.87	108.44RT	172568.80	210290.97
TLE 105	17+72.88	108.84RT	172570.89	210274.31
TLE 106	20+01.15	92.43RT	172563.40	210513.37
TLE 107	20+29.94	92.50RT	172562.09	210543.34
TLE 108	20+29.91	102.50RT	172552.10	210542.95
TLE 109	19+97.95	102.43RT	172553.57	210509.54

R/W COURSE TABLE		
PT. TO PT.	BEARING	DISTANCE
BD 503 TO TLE 101	S08° 42' 39"W	85.18'
BD 504 TO TLE 106	S02° 44' 58"W	92.43'
TLE 102 TO TLE 103	S06° 49' 19"W	10.00'
TLE 103 TO TLE 104	S21° 12' 38"W	14.08'
TLE 104 TO TLE 105	N82° 52' 28"W	16.79'
TLE 105 TO TLE 101	N07° 07' 32"E	23.67'
TLE 107 TO TLE 108	S02° 12' 49"W	10.00'
TLE 108 TO TLE 109	N87° 28' 03"W	33.45'
TLE 109 TO TLE 106	N21° 18' 27"E	10.54'

BASIS OF EXISTING RIGHT-OF-WAY
STH 28 - RIGHT OF WAY PLAT NO. 4012-1-12
STH 28 - RIGHT OF WAY PLAT NO. T 070-1(6)
STH 28 - RIGHT OF WAY PLAT NO. U 070-1(3)
KOHLER SHEBOYGAN ROAD - RIGHT OF WAY PLAT NO. 504A
TAYLOR DRIVE (EAST FRONTAGE ROAD) - RIGHT OF WAY PLAT NO. 1222-1-22

REVISION DATE

DATE 2/8/21

GRID FACTOR N/A

SCALE, FEET 0 30 60

HWY: CTH PP

COUNTY: SHEBOYGAN

STATE R/W PROJECT NUMBER 4291-02-00

CONSTRUCTION PROJECT NUMBER --

PLAT SHEET 4. 3

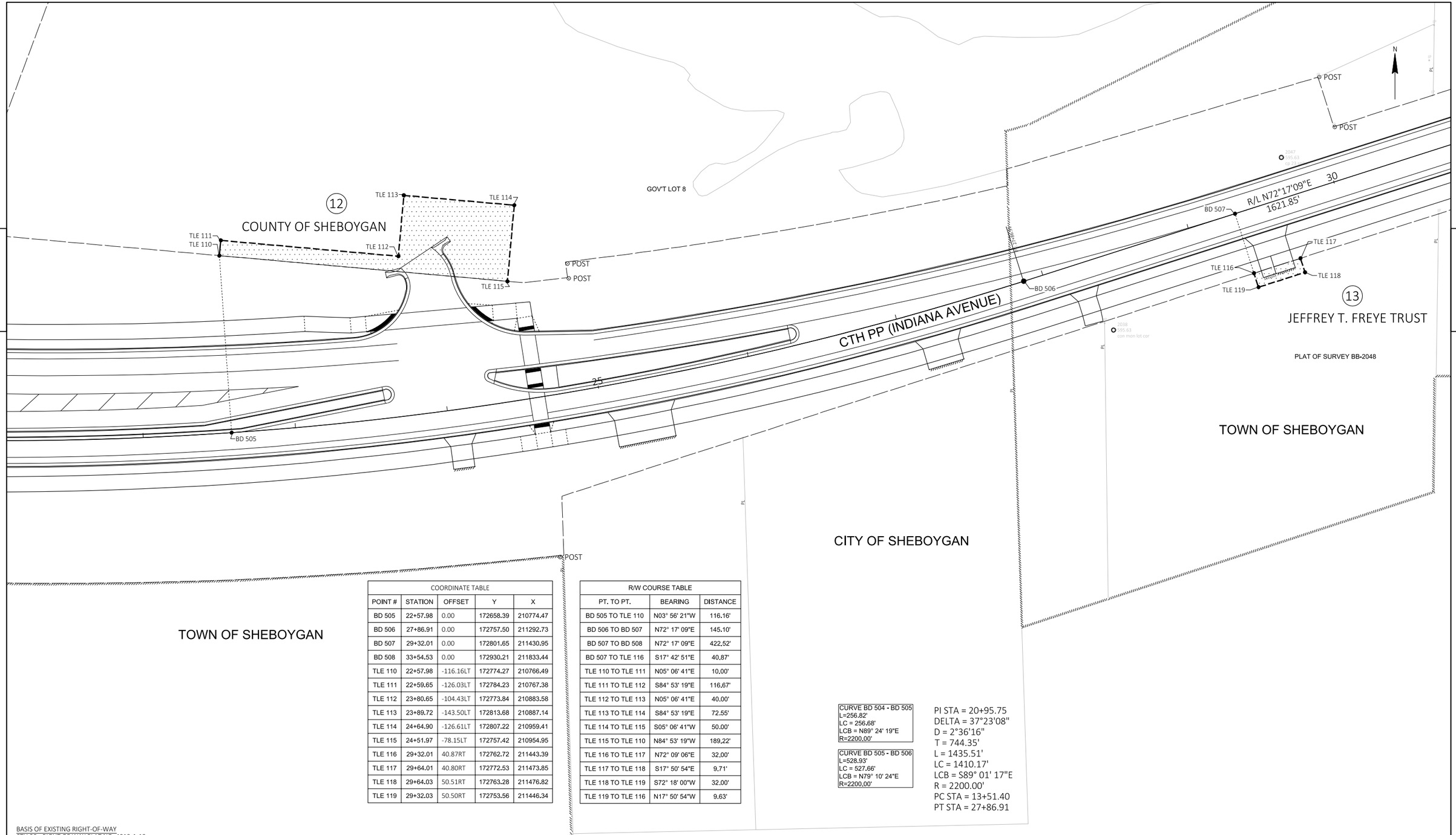
PS&E SHEET -- 232

E

FILE NAME : CTH PP 36TH TO 24TH.DWG
LAYOUT NAME - 4.3

PLOT DATE : 7/20/2021 1:53 PM PLOT BY : JEREMY J. HILDEBRAND PLOT NAME : PLOT SCALE : 1 IN:30 FT

WISDOT/CADDS SHEET 75



COORDINATE TABLE				
POINT #	STATION	OFFSET	Y	X
BD 505	22+57.98	0.00	172658.39	210774.47
BD 506	27+86.91	0.00	172757.50	211292.73
BD 507	29+32.01	0.00	172801.65	211430.95
BD 508	33+54.53	0.00	172930.21	211833.44
TLE 110	22+57.98	-116.16LT	172774.27	210766.49
TLE 111	22+59.65	-126.03LT	172784.23	210767.38
TLE 112	23+80.65	-104.43LT	172773.84	210883.58
TLE 113	23+89.72	-143.50LT	172813.68	210887.14
TLE 114	24+64.90	-126.61LT	172807.22	210959.41
TLE 115	24+51.97	-78.15LT	172757.42	210954.95
TLE 116	29+32.01	40.87RT	172762.72	211443.39
TLE 117	29+64.01	40.80RT	172772.53	211473.85
TLE 118	29+64.03	50.51RT	172763.28	211476.82
TLE 119	29+32.03	50.50RT	172753.56	211446.34

R/W COURSE TABLE		
PT. TO PT.	BEARING	DISTANCE
BD 505 TO TLE 110	N03° 56' 21"W	116.16'
BD 506 TO BD 507	N72° 17' 09"E	145.10'
BD 507 TO BD 508	N72° 17' 09"E	422,52'
BD 507 TO TLE 116	S17° 42' 51"E	40,87'
TLE 110 TO TLE 111	N05° 06' 41"E	10,00'
TLE 111 TO TLE 112	S84° 53' 19"E	116,67'
TLE 112 TO TLE 113	N05° 06' 41"E	40.00'
TLE 113 TO TLE 114	S84° 53' 19"E	72.55'
TLE 114 TO TLE 115	S05° 06' 41"W	50.00'
TLE 115 TO TLE 110	N84° 53' 19"W	189,22'
TLE 116 TO TLE 117	N72° 09' 06"E	32,00'
TLE 117 TO TLE 118	S17° 50' 54"E	9.71'
TLE 118 TO TLE 119	S72° 18' 00"W	32.00'
TLE 119 TO TLE 116	N17° 50' 54"W	9.63'

CURVE BD 504 - BD 505
L=256.82'
LC = 256.68'
LCB = N89° 24' 19"E
R=2200,00'

CURVE BD 505 - BD 506
L=528.93'
LC = 527.66'
LCB = N79° 10' 24"E
R=2200,00'

PI STA = 20+95.75
DELTA = 37°23'08"
D = 2°36'16"
T = 744.35'
L = 1435.51'
LC = 1410.17'
LCB = S89° 01' 17"E
R = 2200.00'
PC STA = 13+51.40
PT STA = 27+86.91

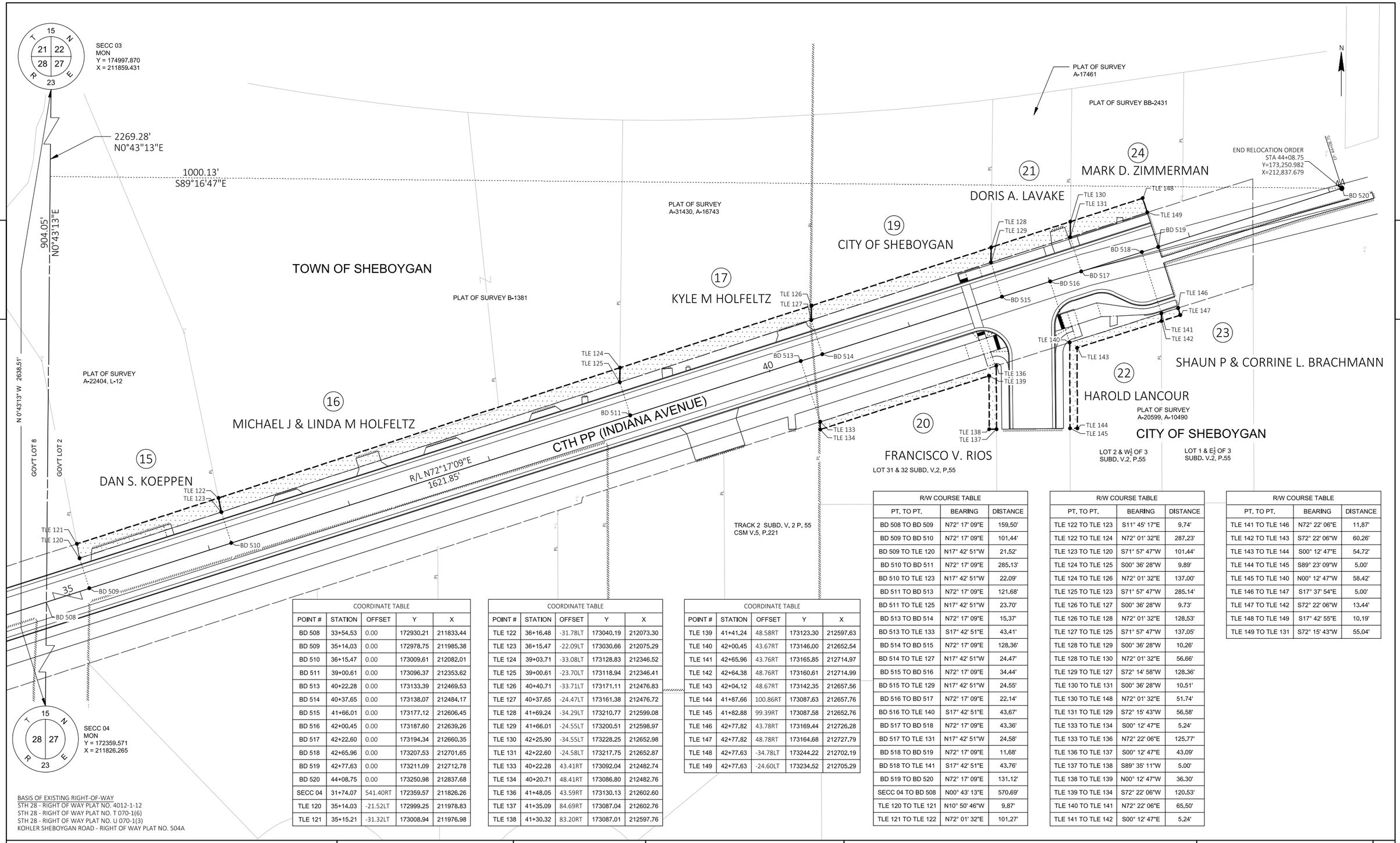
BASIS OF EXISTING RIGHT-OF-WAY
STH 28 - RIGHT OF WAY PLAT NO. 4012-1-12
STH 28 - RIGHT OF WAY PLAT NO. T 070-1(6)
STH 28 - RIGHT OF WAY PLAT NO. U 070-1(3)
KOHLER SHEBOYGAN ROAD - RIGHT OF WAY PLAT NO. 504A

REVISION DATE	DATE 2/8/21	SCALE, FEET 0 30 60	HWY: CTH PP	STATE R/W PROJECT NUMBER 4291-02-00	PLAT SHEET 4. 4
	GRID FACTOR N/A		COUNTY: SHEBOYGAN	CONSTRUCTION PROJECT NUMBER --	PS&E SHEET -- 233 E

FILE NAME : CTH PP 36TH TO 24TH.DWG
LAYOUT NAME - 4.4

PLOT DATE : 7/20/2021 1:53 PM PLOT BY : JEREMY J. HILDEBRAND PLOT NAME : PLOT SCALE : 1 IN:30 FT

WISDOT/CADDS SHEET 75



4

4

COORDINATE TABLE				
POINT #	STATION	OFFSET	Y	X
BD 508	33+54.53	0.00	172930.21	211833.44
BD 509	35+14.03	0.00	172978.75	211985.38
BD 510	36+15.47	0.00	173009.61	212082.01
BD 511	39+00.61	0.00	173096.37	212353.62
BD 513	40+22.28	0.00	173133.39	212469.53
BD 514	40+37.65	0.00	173138.07	212484.17
BD 515	41+66.01	0.00	173177.12	212606.45
BD 516	42+00.45	0.00	173187.60	212639.26
BD 517	42+22.60	0.00	173194.34	212660.35
BD 518	42+65.96	0.00	173207.53	212701.65
BD 519	42+77.63	0.00	173211.09	212712.78
BD 520	44+08.75	0.00	173250.98	212837.68
SECC 04	31+74.07	541.40RT	172359.57	211826.26
TLE 120	35+14.03	-21.52LT	172999.25	211978.83
TLE 121	35+15.21	-31.32LT	173008.94	211976.98

COORDINATE TABLE				
POINT #	STATION	OFFSET	Y	X
TLE 122	36+16.48	-31.78LT	173040.19	212073.30
TLE 123	36+15.47	-22.09LT	173030.66	212075.29
TLE 124	39+03.71	-33.08LT	173128.83	212346.52
TLE 125	39+00.61	-23.70LT	173118.94	212346.41
TLE 126	40+40.71	-33.71LT	173171.11	212476.83
TLE 127	40+37.65	-24.47LT	173161.38	212476.72
TLE 128	41+69.24	-34.29LT	173210.77	212599.08
TLE 129	41+66.01	-24.55LT	173200.51	212598.97
TLE 130	42+25.90	-34.55LT	173228.25	212652.98
TLE 131	42+22.60	-24.58LT	173217.75	212652.87
TLE 133	40+22.28	43.41RT	173092.04	212482.74
TLE 134	40+20.71	48.41RT	173086.80	212482.76
TLE 136	41+48.05	43.59RT	173130.13	212602.60
TLE 137	41+35.09	84.69RT	173087.04	212602.76
TLE 138	41+30.32	83.20RT	173087.01	212597.76

COORDINATE TABLE				
POINT #	STATION	OFFSET	Y	X
TLE 139	41+41.24	48.58RT	173123.30	212597.63
TLE 140	42+00.45	43.67RT	173146.00	212652.54
TLE 141	42+65.96	43.76RT	173165.85	212714.97
TLE 142	42+64.38	48.76RT	173160.61	212714.99
TLE 143	42+04.12	48.67RT	173142.35	212657.56
TLE 144	41+87.66	100.86RT	173087.63	212657.76
TLE 145	41+82.88	99.39RT	173087.58	212652.76
TLE 146	42+77.82	43.78RT	173169.44	212726.28
TLE 147	42+77.82	48.78RT	173164.68	212727.79
TLE 148	42+77.63	-34.78LT	173244.22	212702.19
TLE 149	42+77.63	-24.60LT	173234.52	212705.29

R/W COURSE TABLE		
PT. TO PT.	BEARING	DISTANCE
BD 508 TO BD 509	N72° 17' 09"E	159.50'
BD 509 TO BD 510	N72° 17' 09"E	101.44'
BD 509 TO TLE 120	N17° 42' 51"W	21.52'
BD 510 TO BD 511	N72° 17' 09"E	285.13'
BD 510 TO TLE 123	N17° 42' 51"W	22.09'
BD 511 TO BD 513	N72° 17' 09"E	121.68'
BD 511 TO TLE 125	N17° 42' 51"W	23.70'
BD 513 TO BD 514	N72° 17' 09"E	15.37'
BD 513 TO TLE 133	S17° 42' 51"E	43.41'
BD 514 TO BD 515	N72° 17' 09"E	128.36'
BD 514 TO TLE 127	N17° 42' 51"W	24.47'
BD 515 TO BD 516	N72° 17' 09"E	34.44'
BD 515 TO TLE 129	N17° 42' 51"W	24.55'
BD 516 TO BD 517	N72° 17' 09"E	22.14'
BD 516 TO TLE 140	S17° 42' 51"E	43.67'
BD 517 TO BD 518	N72° 17' 09"E	43.36'
BD 517 TO TLE 131	N17° 42' 51"W	24.58'
BD 518 TO BD 519	N72° 17' 09"E	11.68'
BD 518 TO TLE 141	S17° 42' 51"E	43.76'
BD 519 TO BD 520	N72° 17' 09"E	131.12'
SECC 04 TO BD 508	N00° 43' 13"E	570.69'
TLE 120 TO TLE 121	N10° 50' 46"W	9.87'
TLE 121 TO TLE 122	N72° 01' 32"E	101.27'

R/W COURSE TABLE		
PT. TO PT.	BEARING	DISTANCE
TLE 122 TO TLE 123	S11° 45' 17"E	9.74'
TLE 122 TO TLE 124	N72° 01' 32"E	287.23'
TLE 123 TO TLE 120	S71° 57' 47"W	101.44'
TLE 124 TO TLE 125	S00° 36' 28"W	9.89'
TLE 124 TO TLE 126	N72° 01' 32"E	137.00'
TLE 125 TO TLE 123	S71° 57' 47"W	285.14'
TLE 126 TO TLE 127	S00° 36' 28"W	9.73'
TLE 126 TO TLE 128	N72° 01' 32"E	128.53'
TLE 127 TO TLE 125	S71° 57' 47"W	137.05'
TLE 128 TO TLE 129	S00° 36' 28"W	10.26'
TLE 128 TO TLE 130	N72° 01' 32"E	56.66'
TLE 129 TO TLE 127	S72° 14' 58"W	128.36'
TLE 130 TO TLE 131	S00° 36' 28"W	10.51'
TLE 130 TO TLE 148	N72° 01' 32"E	51.74'
TLE 131 TO TLE 129	S72° 15' 43"W	56.58'
TLE 133 TO TLE 134	S00° 12' 47"E	5.24'
TLE 133 TO TLE 136	N72° 22' 06"E	125.77'
TLE 136 TO TLE 137	S00° 12' 47"E	43.09'
TLE 137 TO TLE 138	S89° 35' 11"W	5.00'
TLE 138 TO TLE 139	N00° 12' 47"W	36.30'
TLE 139 TO TLE 134	S72° 22' 06"W	120.53'
TLE 140 TO TLE 141	N72° 22' 06"E	65.50'
TLE 141 TO TLE 142	S00° 12' 47"E	5.24'

R/W COURSE TABLE		
PT. TO PT.	BEARING	DISTANCE
TLE 141 TO TLE 146	N72° 22' 06"E	11.87'
TLE 142 TO TLE 143	S72° 22' 06"W	60.26'
TLE 143 TO TLE 144	S00° 12' 47"E	54.72'
TLE 144 TO TLE 145	S89° 23' 09"W	5.00'
TLE 145 TO TLE 140	N00° 12' 47"W	58.42'
TLE 146 TO TLE 147	S17° 37' 54"E	5.00'
TLE 147 TO TLE 142	S72° 22' 06"W	13.44'
TLE 148 TO TLE 149	S17° 42' 55"E	10.19'
TLE 149 TO TLE 131	S72° 15' 43"W	55.04'

BASIS OF EXISTING RIGHT-OF-WAY
STH 28 - RIGHT OF WAY PLAT NO. 4012-1-12
STH 28 - RIGHT OF WAY PLAT NO. T 070-1(6)
STH 28 - RIGHT OF WAY PLAT NO. U 070-1(3)
KOHLER SHEBOYGAN ROAD - RIGHT OF WAY PLAT NO. 504A

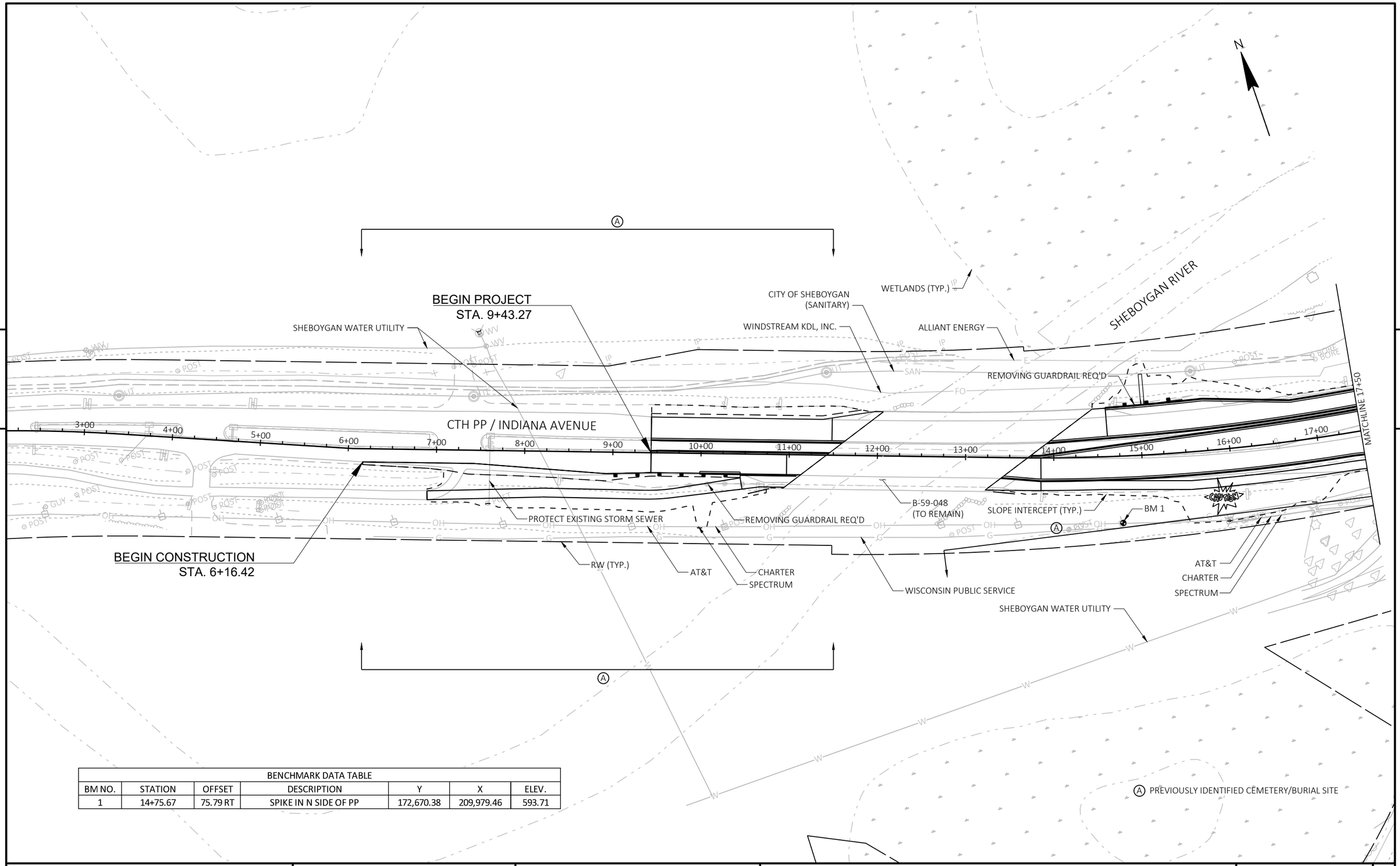
REVISION DATE 7/15/2021	DATE 2/8/21	SCALE, FEET 0 30 60	HWY: CTH PP	STATE R/W PROJECT NUMBER 4291-02-00	PLAT SHEET 4. 5
	GRID FACTOR N/A		COUNTY: SHEBOYGAN	CONSTRUCTION PROJECT NUMBER --	PS&E SHEET -- 234 E

FILE NAME : CTH PP 36TH TO 24TH.DWG
LAYOUT NAME - 4.5

PLOT DATE : 7/20/2021 1:53 PM PLOT BY : JEREMY J. HILDEBRAND PLOT NAME : PLOT SCALE : 1 IN:30 FT

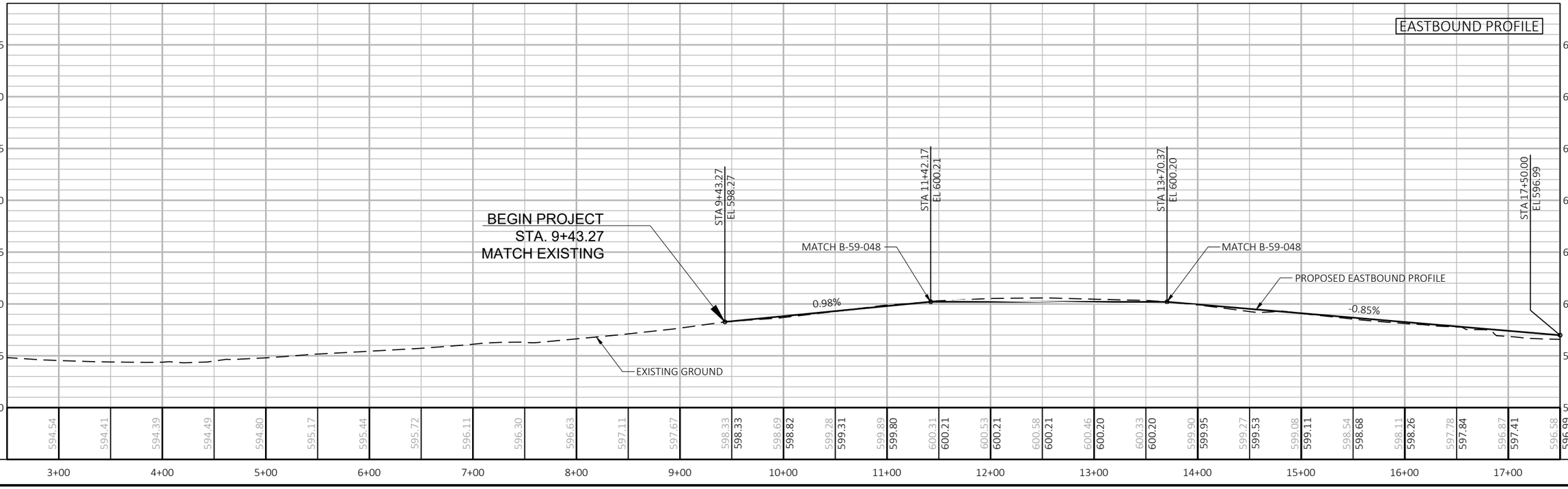
WISDOT/CADDS SHEET 75

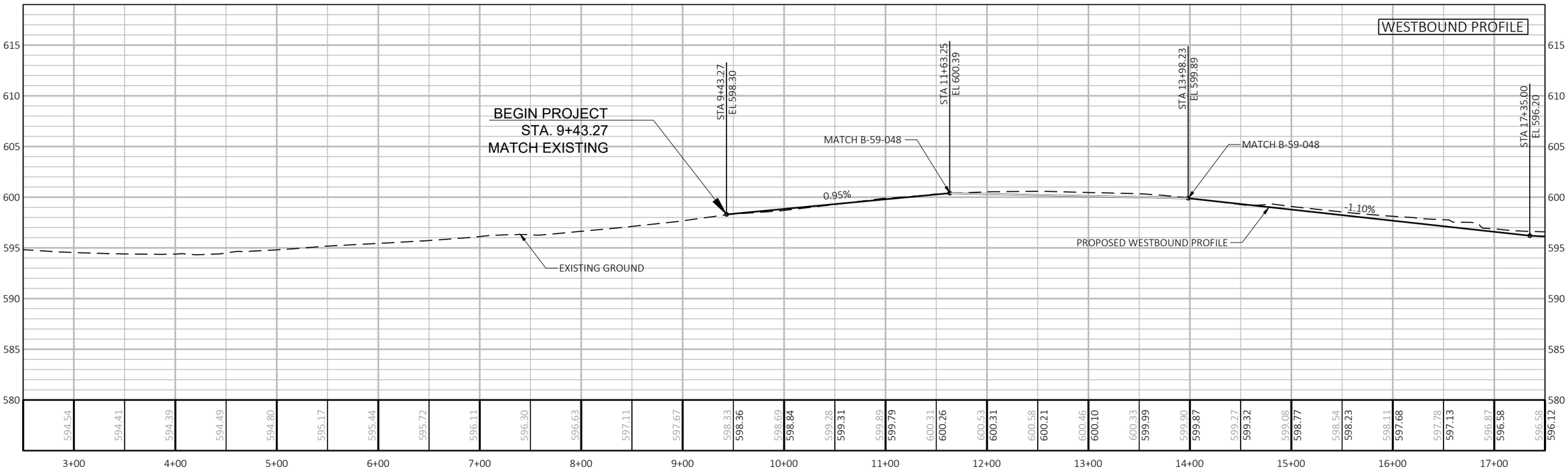
5



BENCHMARK DATA TABLE						
BM NO.	STATION	OFFSET	DESCRIPTION	Y	X	ELEV.
1	14+75.67	75.79 RT	SPIKE IN N SIDE OF PP	172,670.38	209,979.46	593.71

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PLAN AND PROFILE: MAINLINE	SHEET 235	E





PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PLAN AND PROFILE: MAINLINE	SHEET 236	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050102_pp

PLOT DATE : 9/28/2021 7:38 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

BENCHMARK DATA TABLE						
BM NO.	STATION	OFFSET	DESCRIPTION	Y	X	ELEV.
2	18+39.08	56.74 RT	SPIKE IN PP	172,613.13	210,349.46	599.59
3	14+34.26	770.54 RT	CHISLED X	172,020.35	209,729.41	595.85
4	23+53.70	58.09 LT	SPIKE IN S SIDE OF PP	172,724.76	210,863.29	592.73
4A	28+43.64	36.42 RT	TAG BOLT OF HYD	172,740.09	211,357.85	597.62

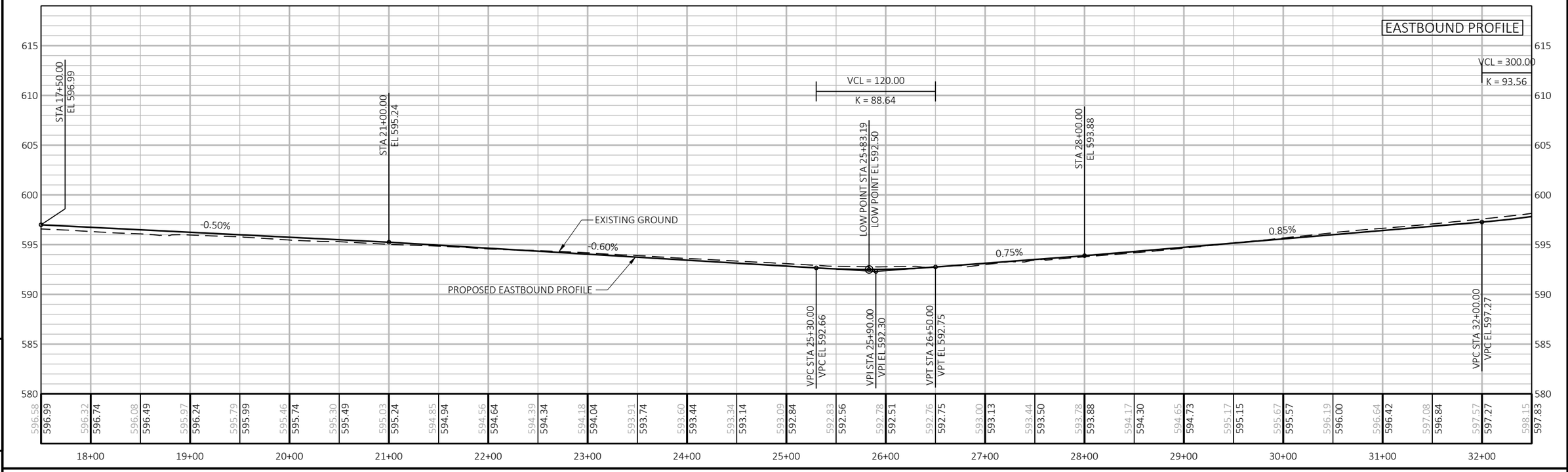
N

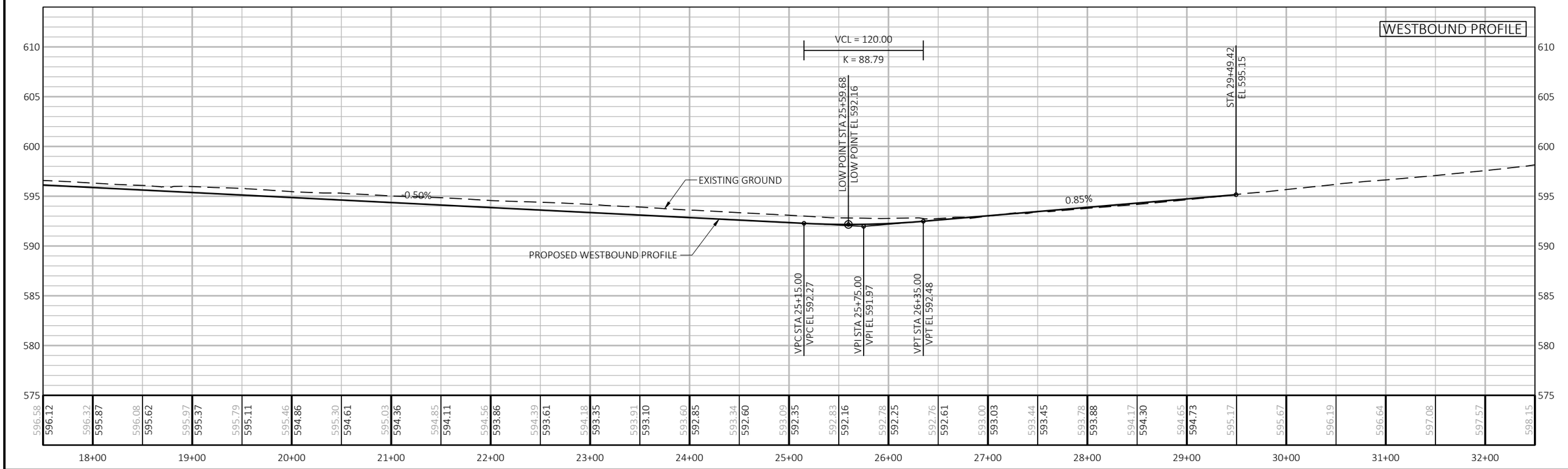
WISCONSIN PUBLIC SERVICE
ALLIANT ENERGY
EXTENET SYSTEMS
RW (TYP.)
SOUTH TAYLOR DRIVE
CITY OF SHEBOYGAN (SANITARY)
ALLIANT ENERGY
WINDSTREAM KDL, INC.
TLE
ROY SEBALD SHEBOYGAN RIVER NATURAL AREA
2828 INDIANA AVE
WISCONSIN PUBLIC SERVICE
CULVERT C-59-36-70 TO REMAIN
CTH PP / INDIANA AVENUE
BM 4
DAN S. KOEPPEN
TLE
REMOVING GUARDRAIL
WINDSTREAM KDL, INC.
WISCONSIN PUBLIC SERVICE
MATCHLINE 17+50
MATCHLINE 32+50
BM 2
TLE
BM 4A
AT&T
SPECTRUM
CHARTER
CITY OF SHEBOYGAN (SANITARY)
GERALD A. & LINDA L. BINVERSIE
2707 INDIANA AVE
SHEBOYGAN WATER UTILITY
NHPCO WISCONSIN LLC
2629 INDIANA AVE
EXTENET SYSTEMS
SLOPE INTERCEPT (TYP.)
WISCONSIN PUBLIC SERVICE
NATIONAL RETAIL PROPERTIES LP
2729 INDIANA AVE
FRYE
2715 INDIANA AVE
JESSICA L. ZABEL
2727 INDIANA AVE
TLE
WISCONSIN PUBLIC SERVICE
AT&T
SPECTRUM
CHARTER
WINDSTREAM KDL, INC.
AT&T
SPECTRUM
CHARTER
SHEBOYGAN WATER UTILITY
ALLIANT ENERGY
CITY OF SHEBOYGAN (SANITARY)
JOHN HOPPERT
2828 GEORGIA AVE
AT&T
BM 3
WISCONSIN PUBLIC SERVICE
WETLANDS (TYP.)
Ⓐ PREVIOUSLY IDENTIFIED CEMETERY/BURIAL SITE

STA. 24+06 RT CONSTRUCT P.E.
STA. 25+25 RT CONSTRUCT P.E.
STA. 27+23 RT CONSTRUCT C.E.
STA. 28+23 RT CONSTRUCT P.E.
STA. 29+50 RT CONSTRUCT P.E.
STA. 31+06 RT CONSTRUCT P.E.

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PLAN AND PROFILE: MAINLINE	SHEET 237	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050103_pp
PLOT DATE : 9/28/2021 7:38 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 44





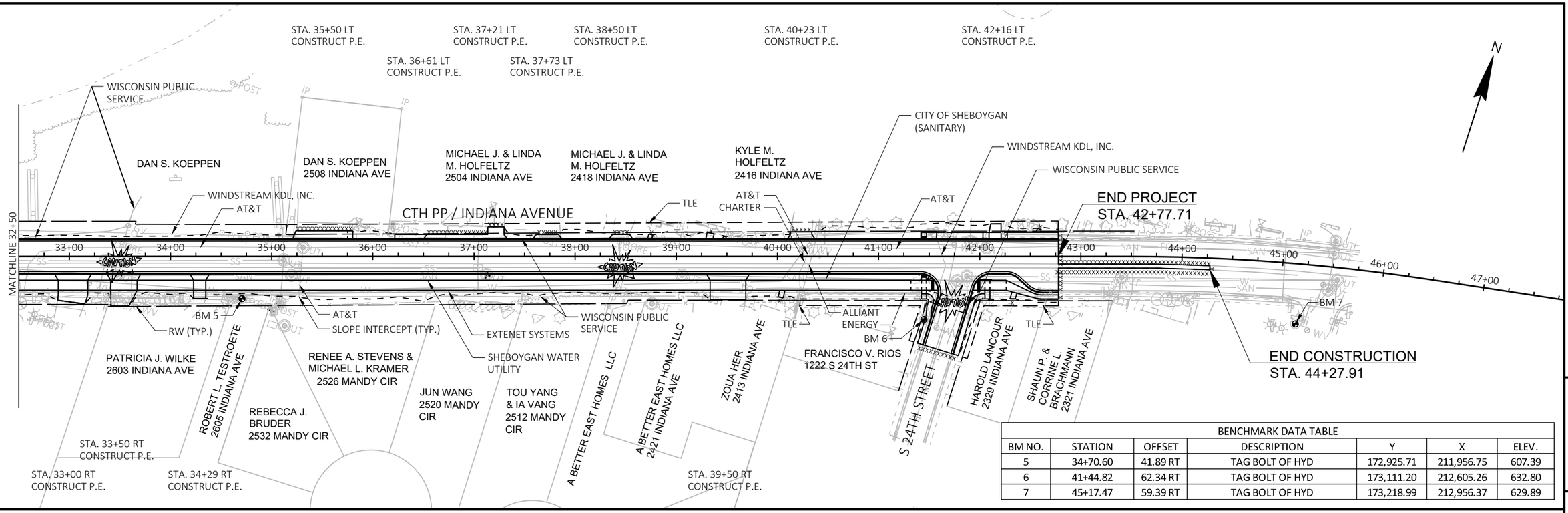
5 5

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PLAN AND PROFILE: MAINLINE	SHEET 238	E

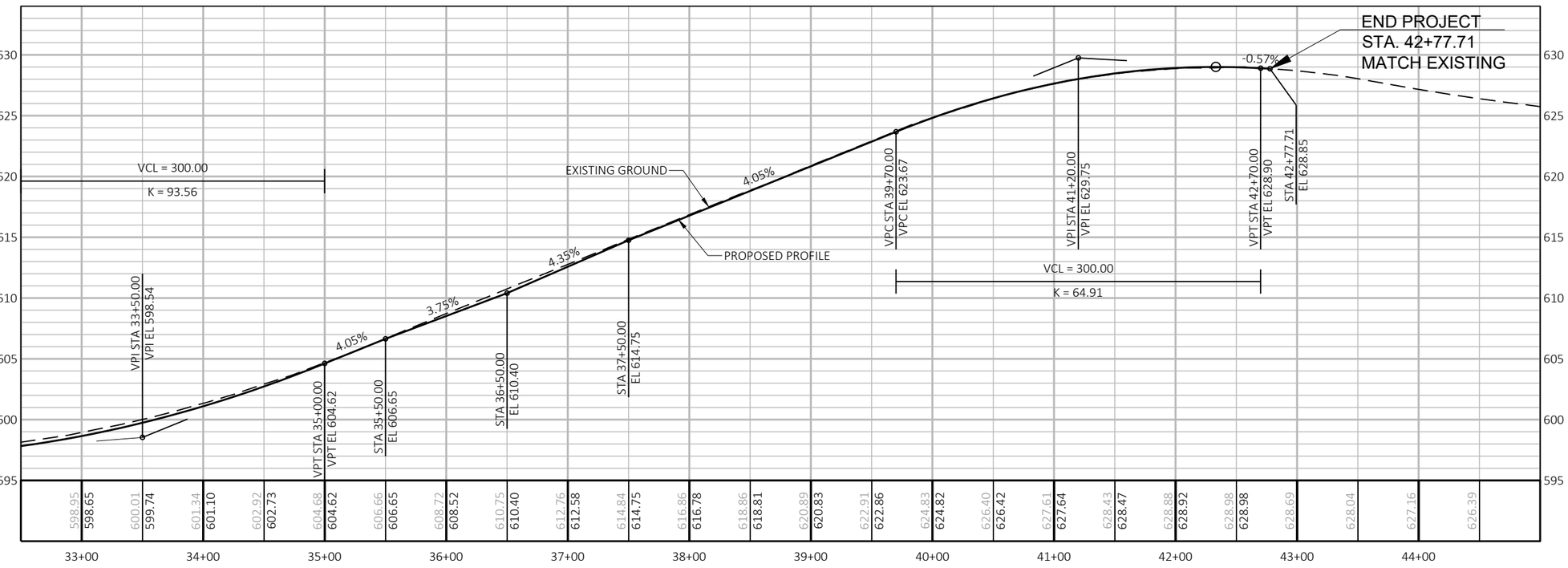
FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050104_pp

PLOT DATE : 9/28/2021 7:38 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



BENCHMARK DATA TABLE						
BM NO.	STATION	OFFSET	DESCRIPTION	Y	X	ELEV.
5	34+70.60	41.89 RT	TAG BOLT OF HYD	172,925.71	211,956.75	607.39
6	41+44.82	62.34 RT	TAG BOLT OF HYD	173,111.20	212,605.26	632.80
7	45+17.47	59.39 RT	TAG BOLT OF HYD	173,218.99	212,956.37	629.89



PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	PLAN AND PROFILE: MAINLINE	SHEET 239	E

Standard Detail Drawing List

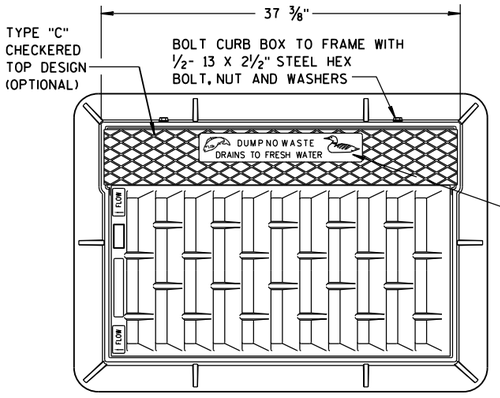
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D02-07A	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07B	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07C	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D18-02	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D19-02	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B04-11	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C12-09A	CONCRETE BASE TYPE 13
09C12-09B	CONCRETE BASE TYPE 13
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-03	SIGNAL CONTROL CABINET
09E01-15B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-09J	TYPE 13 POLE 35'-55' MONOTBE ARM
09E08-09K	GENERAL NOTES,HARDWARE DETAILS FOR TYPE 9/10,9/10 SPECIAL,12 & 13 POLES W/MONOTUBE ARMS
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
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-09	URBAN DOWELED CONCRETE PAVEMENT
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C18-07E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
13C18-07F	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
13C18-07G	CONCRETE PAVEMENT JOINTING ACCELERATION/DECELERATION LANE
13C19-03	HMA LONGITUDINAL JOINTS
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

6

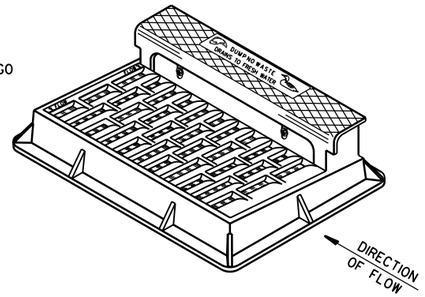
Standard Detail Drawing List

14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15A	PAVEMENT MARKING SYMBOLS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15E	PAVEMENT MARKING FOR BIKE LANES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-09A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-05A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-05B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C29-07A	BICYCLE LANE MARKING
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D06-04	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D11-07	TRAFFIC CONTROL, SINGLE LANE CROSSOVER
15D12-09A	TRAFFIC CONTROL, LANE CLOSURE
15D20-05A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D30-06A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-06B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-06C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D46-01	TRAFFIC CONTROL, ONE - WAY SIGNING

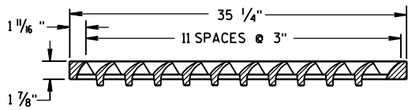
6

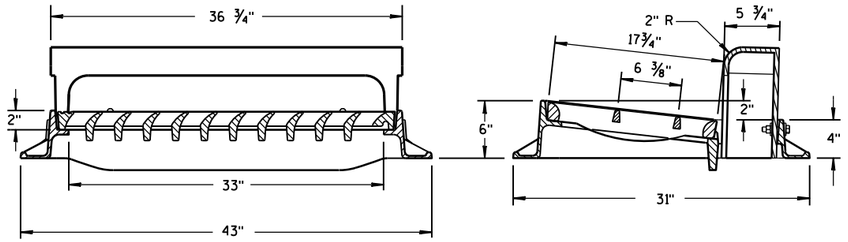


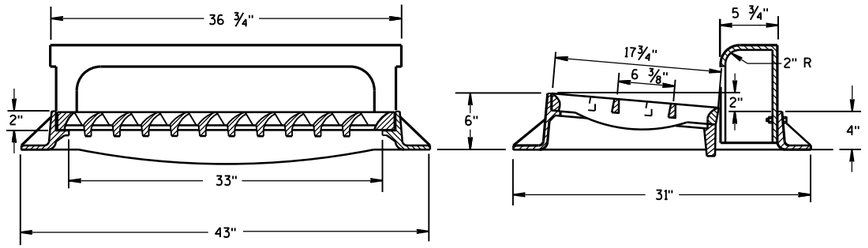
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

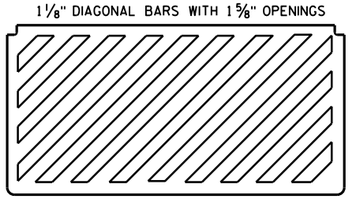






TYPE "H"

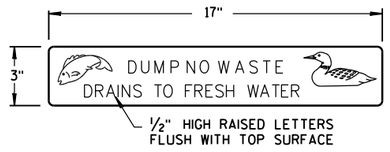
NOTE: EITHER CASTING IS ACCEPTABLE



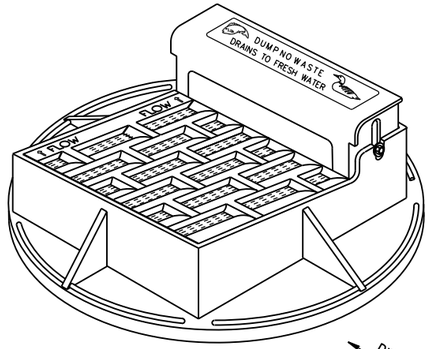
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

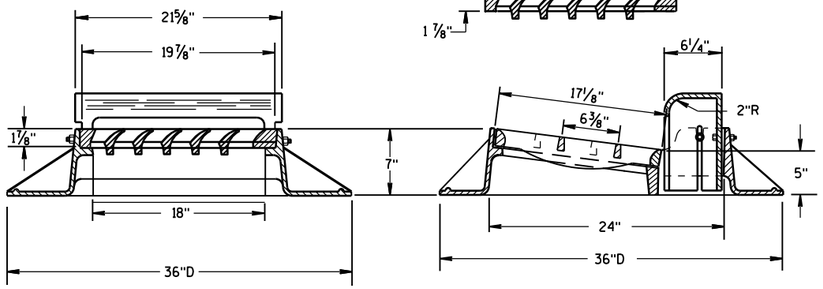


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



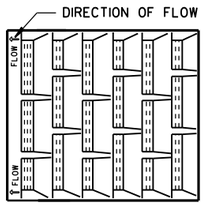
TYPE "A"

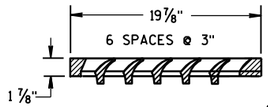
GENERAL NOTES

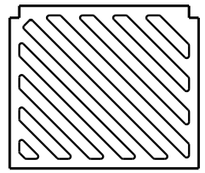
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.



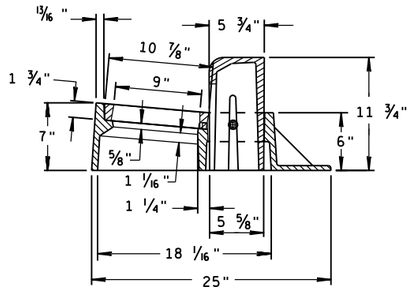


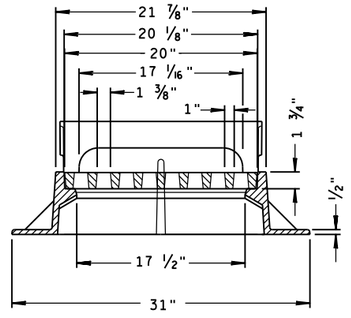


SPECIAL GRATE FOR TYPE "A" COVER

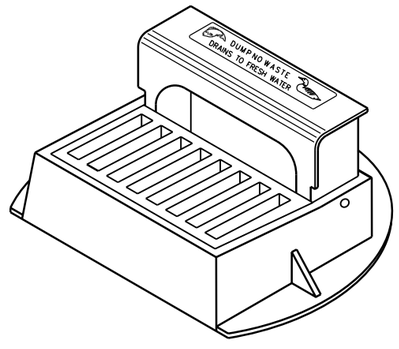
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"

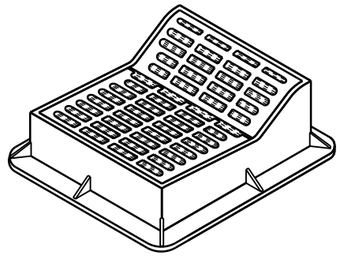


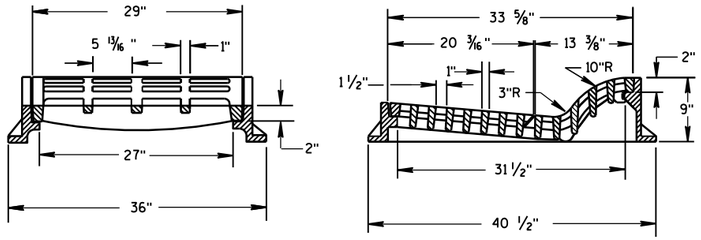
INLET COVERS TYPE A, H, A-S, H-S & Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

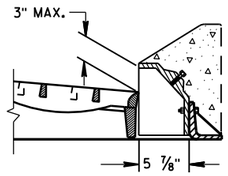
S.D.D. 8 A 5-19a





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

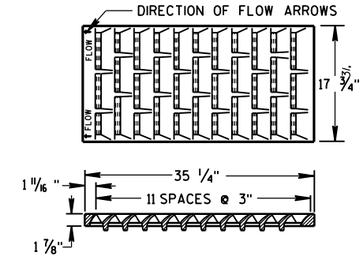
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

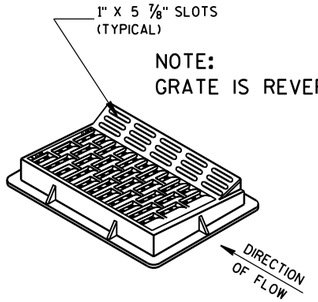
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

GENERAL NOTES

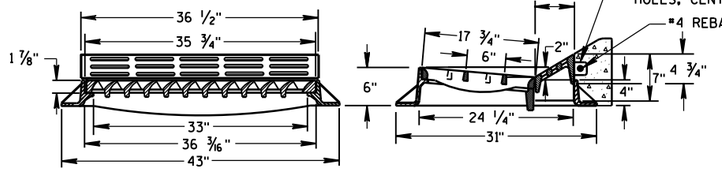
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.





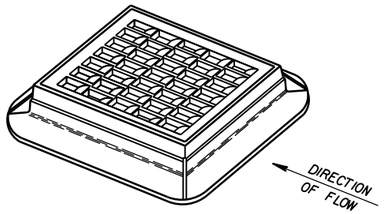
NOTE:
GRATE IS REVERSIBLE.

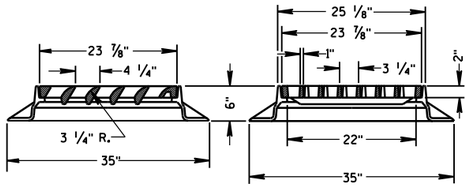


TYPE "HM"

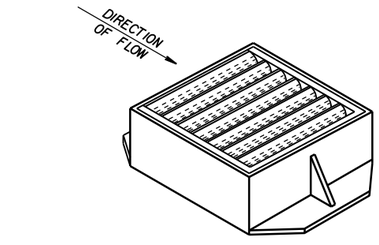
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

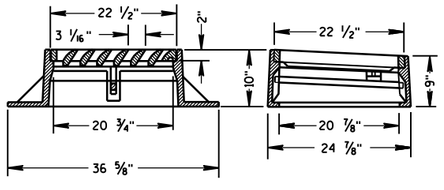
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



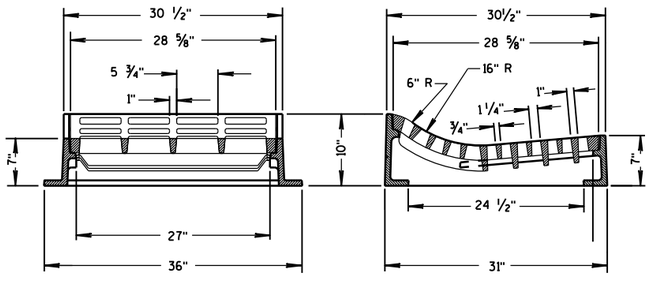


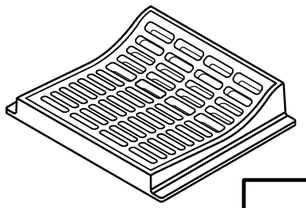
TYPE "S"





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

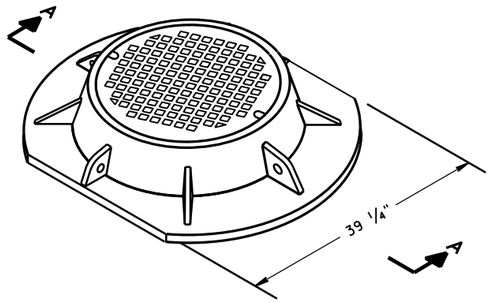
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

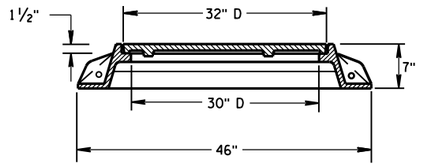
243

FHWA

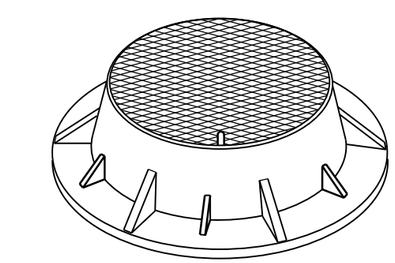
6

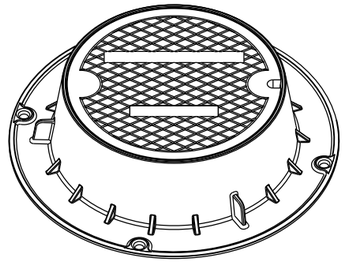
S.D.D. 8 A 5-19c

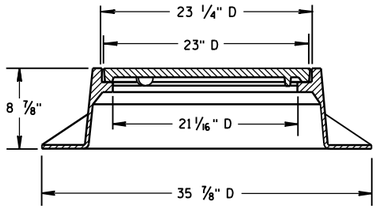


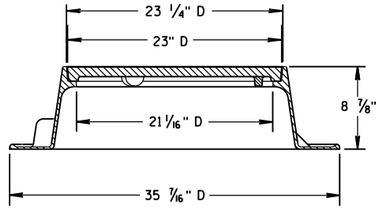


SECTION A-A
TYPE "K"









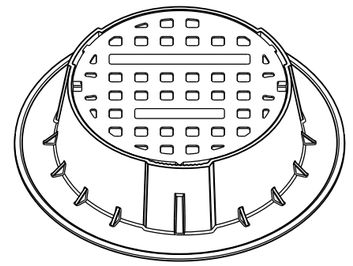
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

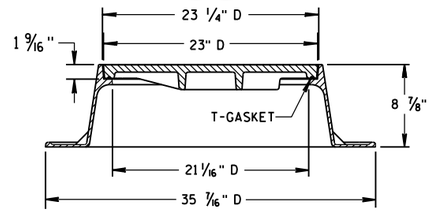
GENERAL NOTES

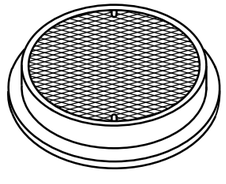
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

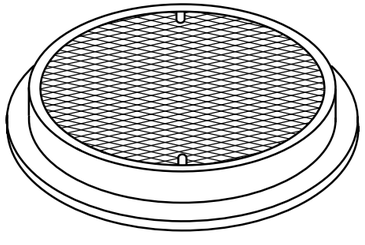
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

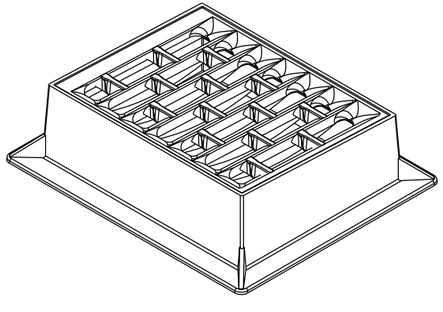
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

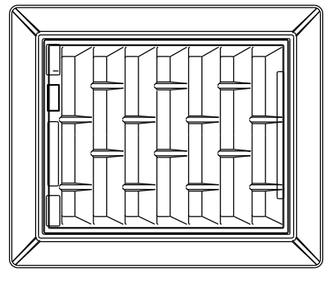


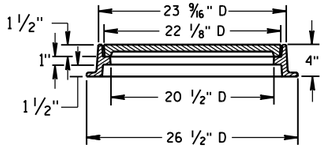




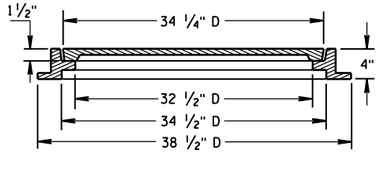




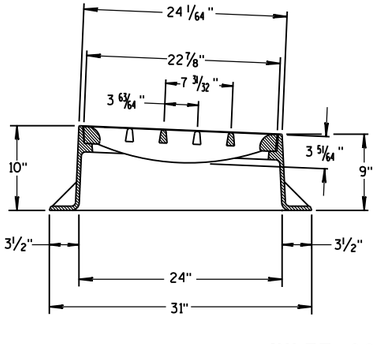


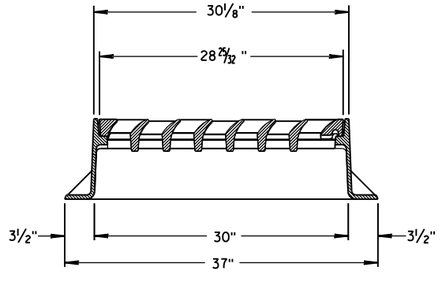


TYPE "L"

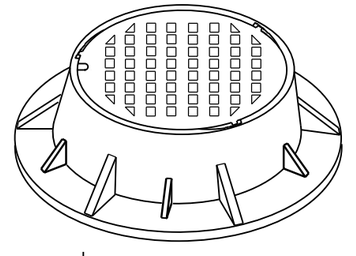


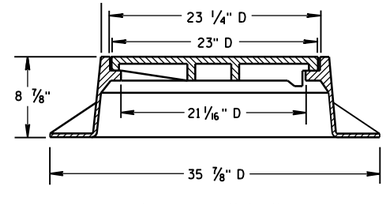
TYPE "M"





INLET COVER TYPE "BW"





TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

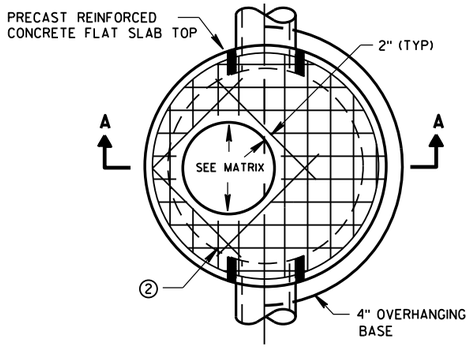
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

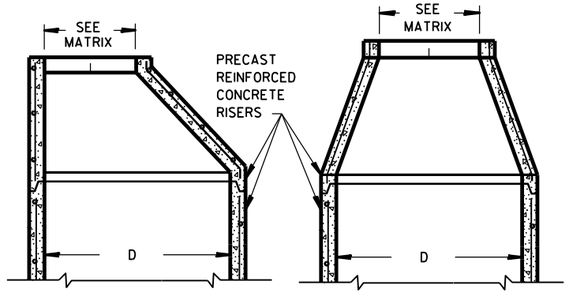
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 A 5-19d

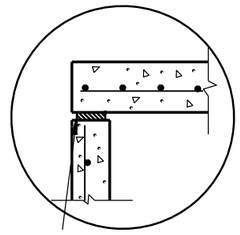


PLAN VIEW CIRCULAR OPENING

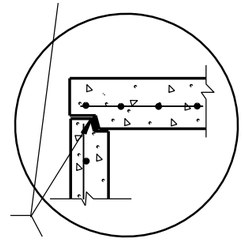


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

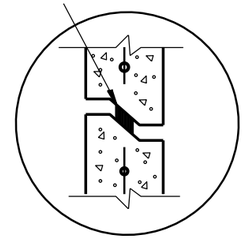


TOP WITH PLAIN END JOINT



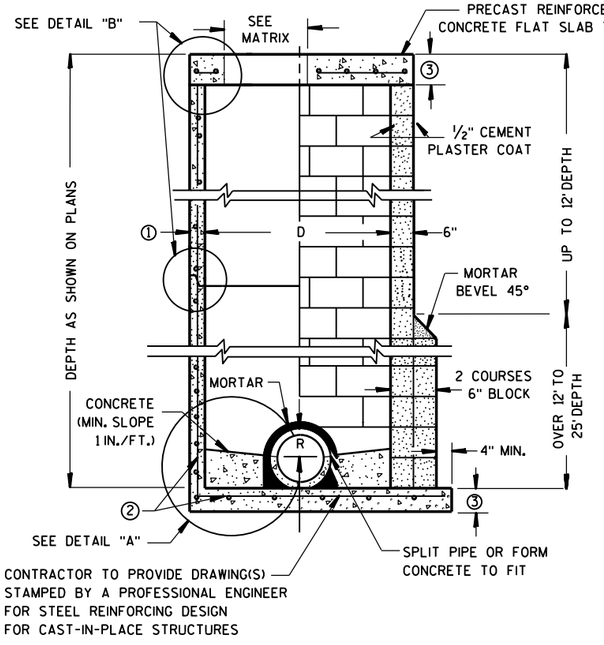
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



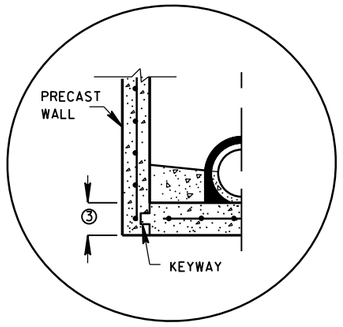
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

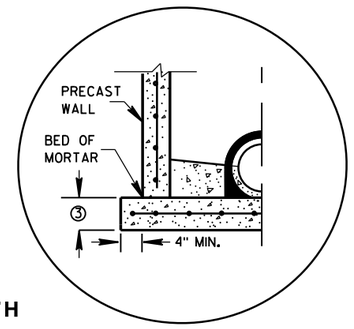


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

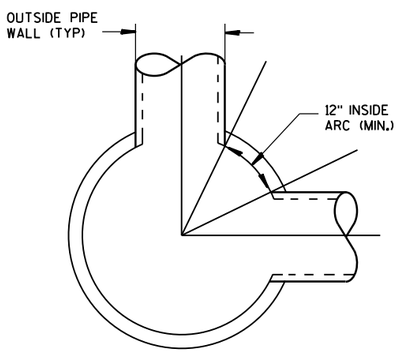


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



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 FOUNDATION 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.

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

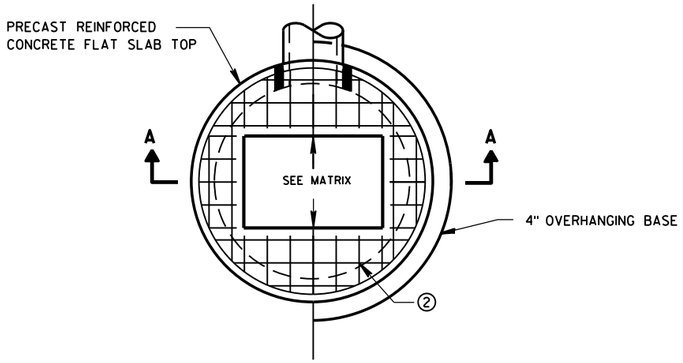
APPROVED

Sept., 2016
DATE

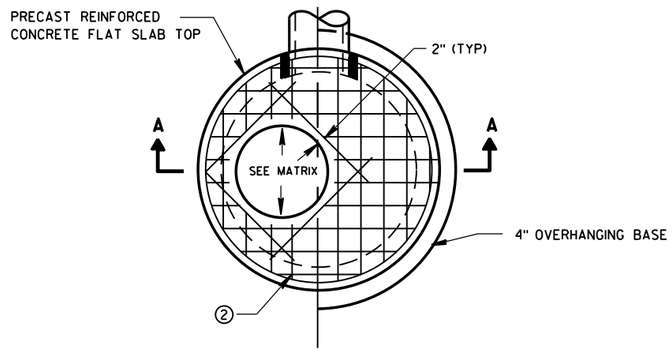
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

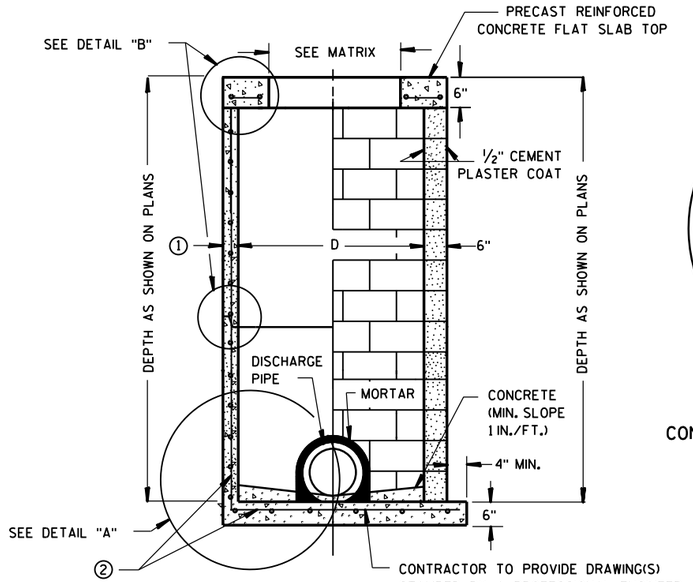
6
S.D.D. 8 B 9-2



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

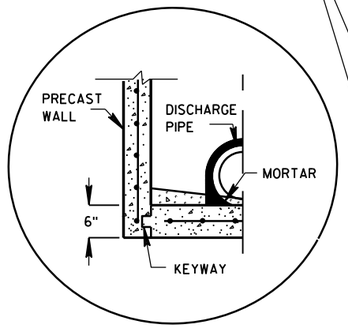


SECTION A-A

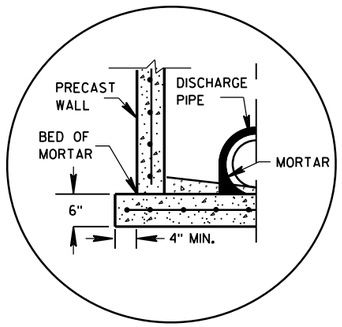
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

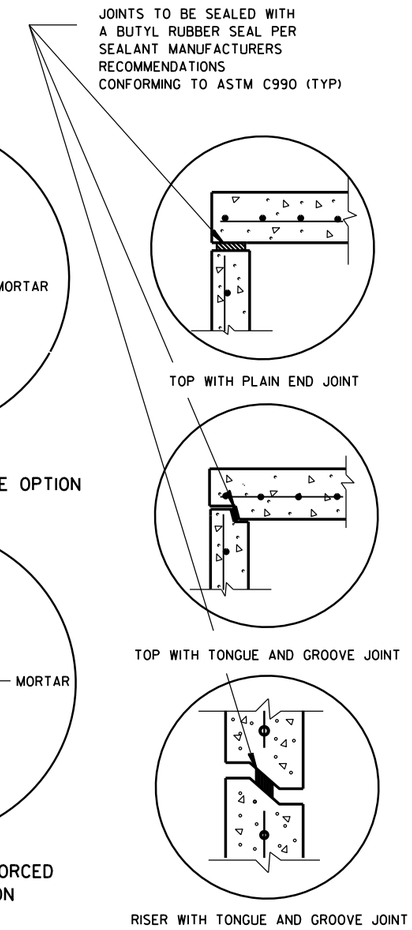


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



TOP WITH PLAIN END JOINT

TOP WITH TONGUE AND GROOVE JOINT

RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

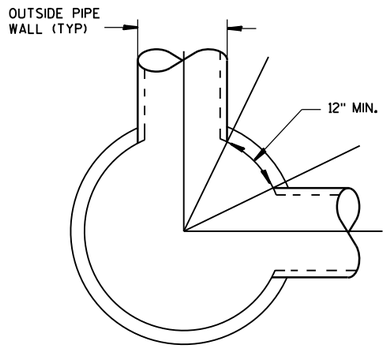
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

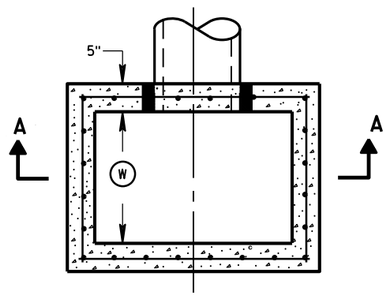
APPROVED
Sept., 2016 — /S/ Rodney Taylor
DATE — ROADWAY STANDARDS | ENT
FHWA — UNIT SUPERVI

6

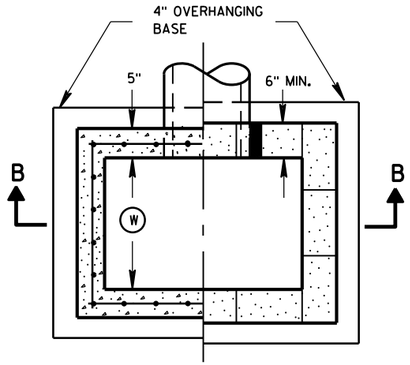
S.D.D. 8 C 6-2

6

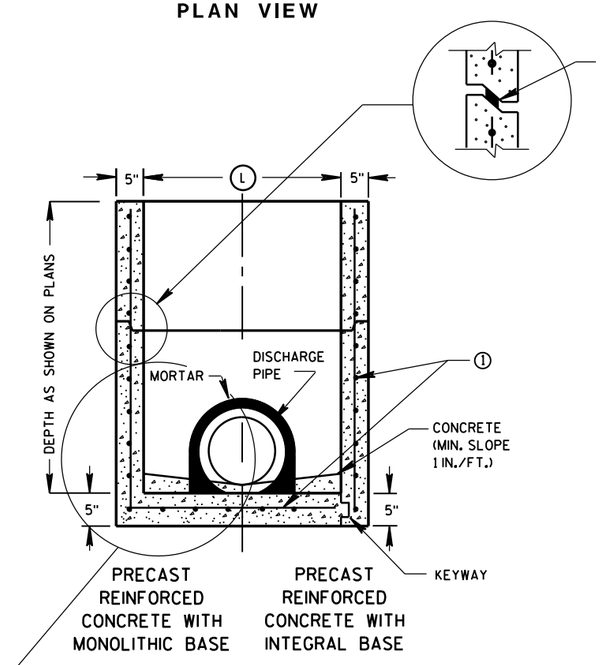
S.D.D. 8 C 6-2



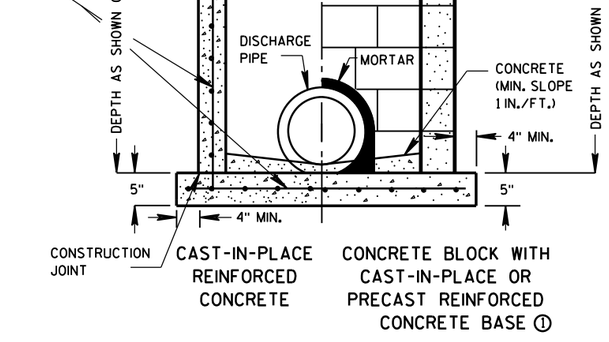
PLAN VIEW



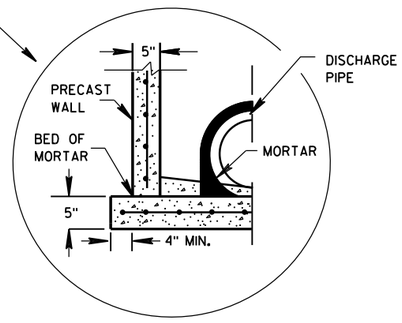
PLAN VIEW



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 FOUNDATION 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.

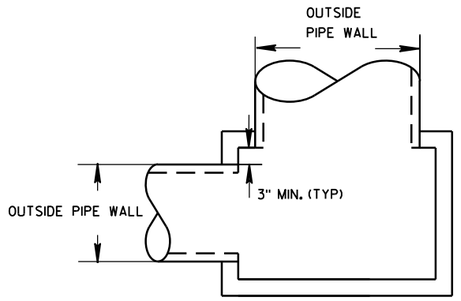
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH Ⓦ (FT)	LENGTH Ⓛ (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



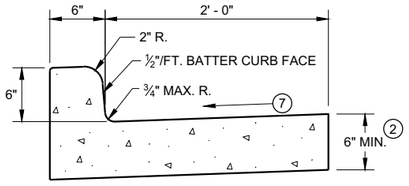
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

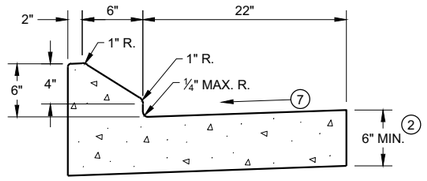
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT UNIT SUPERVIS
FHWA

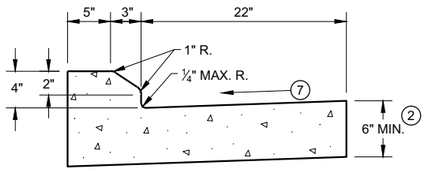
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT



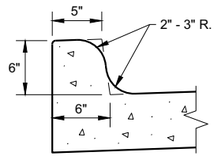
TYPES A (1) & D



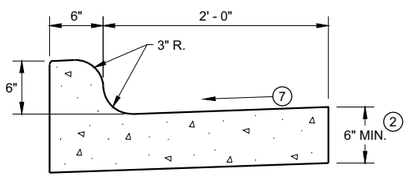
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

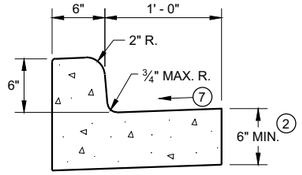


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



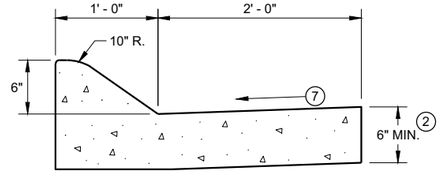
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"



TYPES A (1) & D

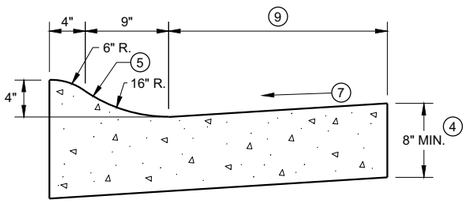
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

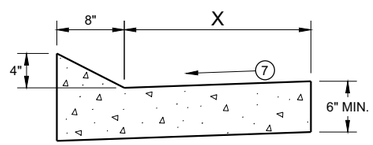
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

TBT & TBTT	X
30"	22"
36"	28"

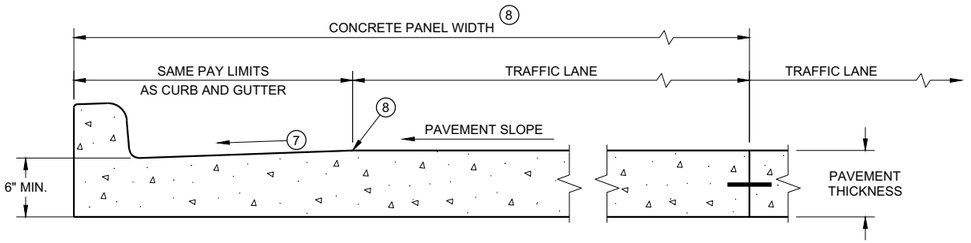


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

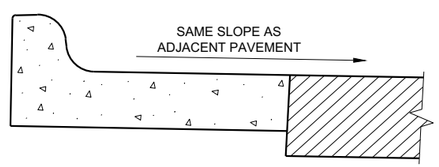
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION 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 AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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 GUTTERS 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) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) 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.

(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

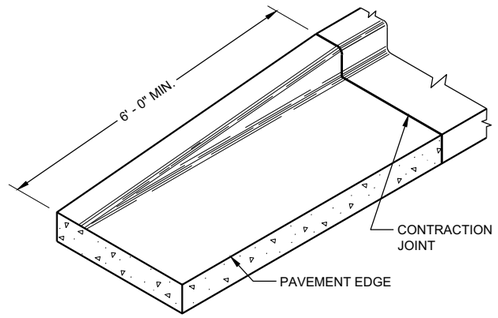
(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

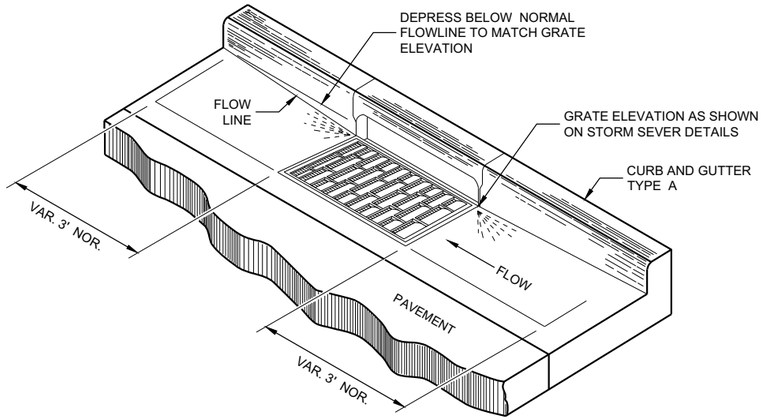
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D01 - 22a



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS
(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

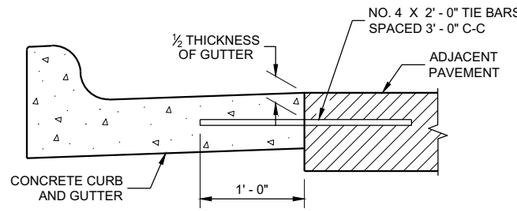
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

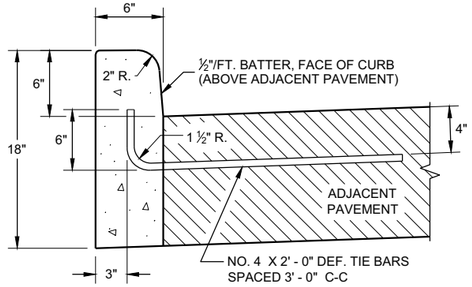
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(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.

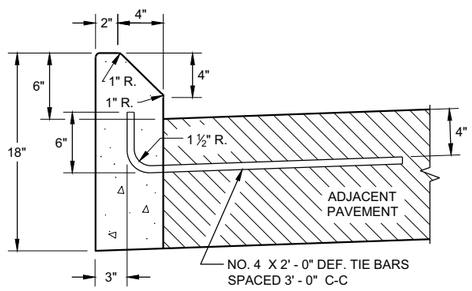
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

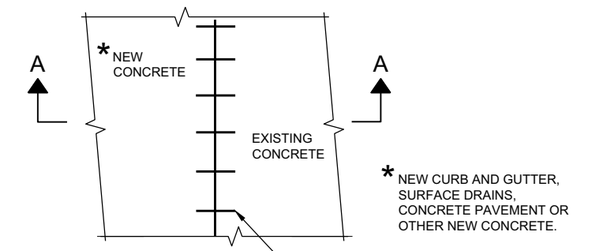


TYPES A (1) & D

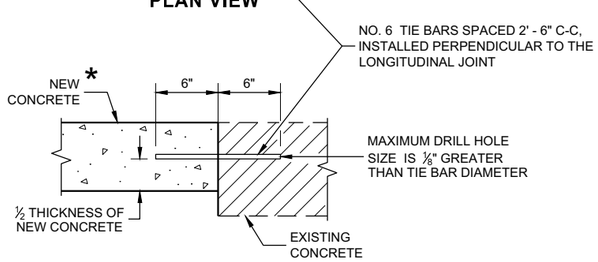


TYPES G (1) & J

CONCRETE CURB

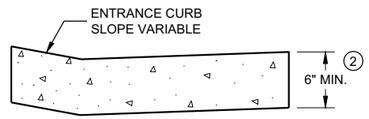


PLAN VIEW



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)
(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6
SDD08D01 - 22b

GENERAL NOTES

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

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

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

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

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

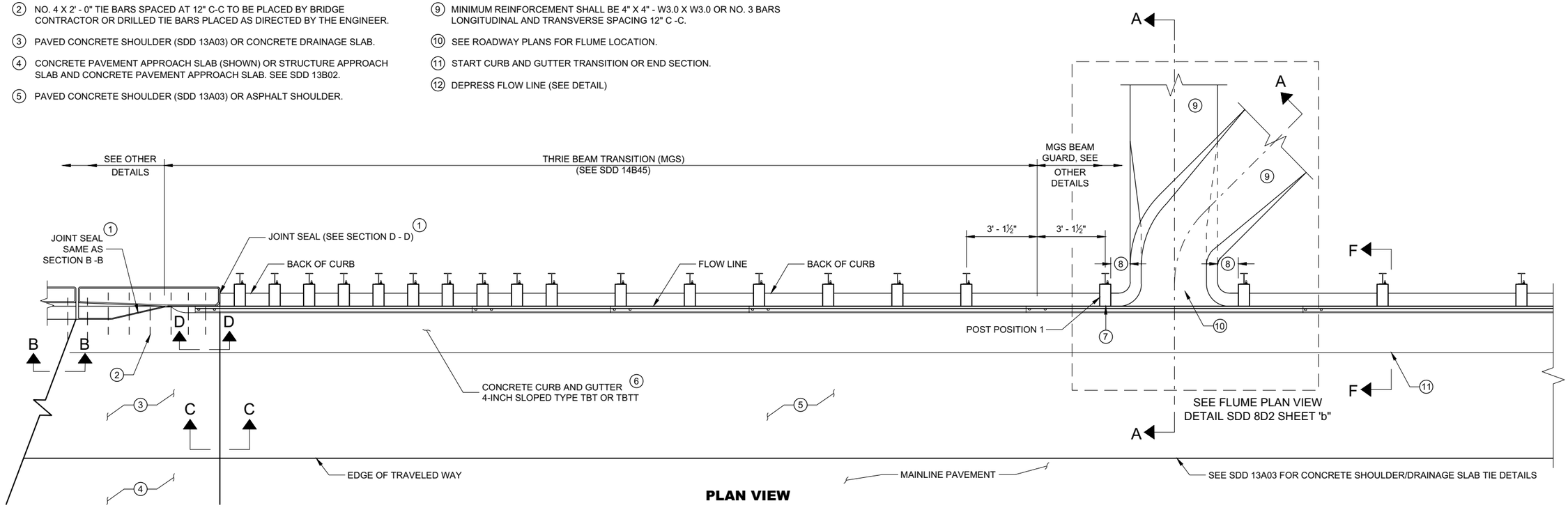
(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

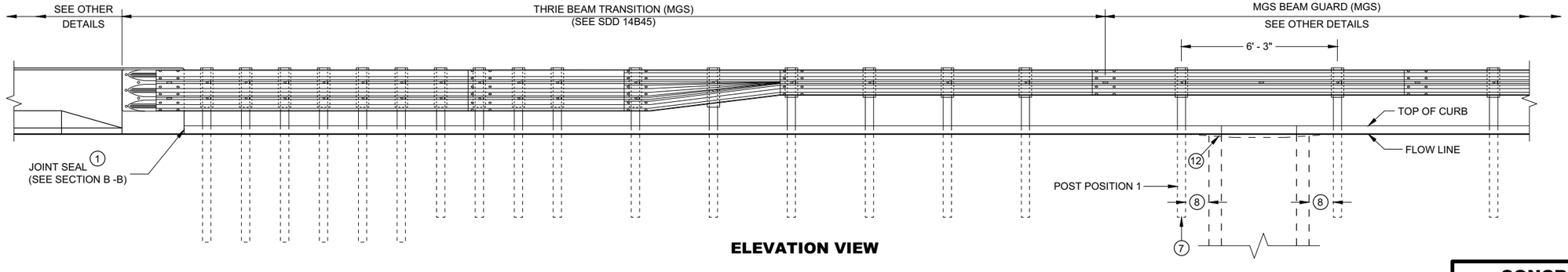
(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)



PLAN VIEW



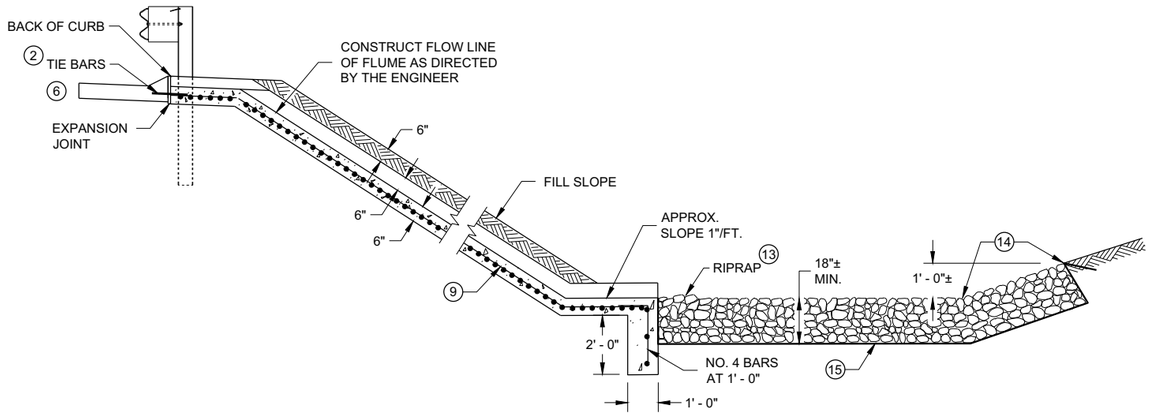
ELEVATION VIEW

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

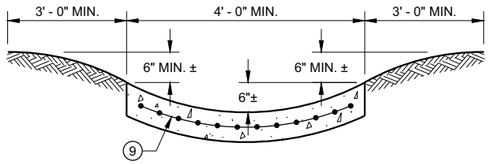
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D02 - 07a

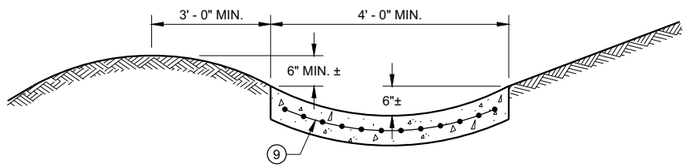
SDD 08D02 - 07a



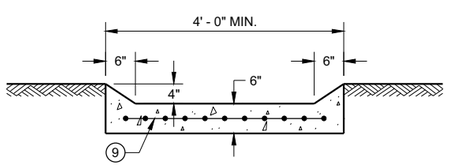
SECTION A - A



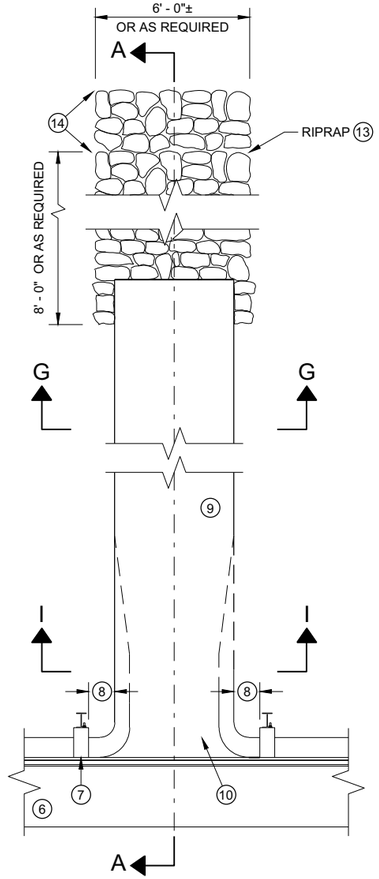
SECTION G - G



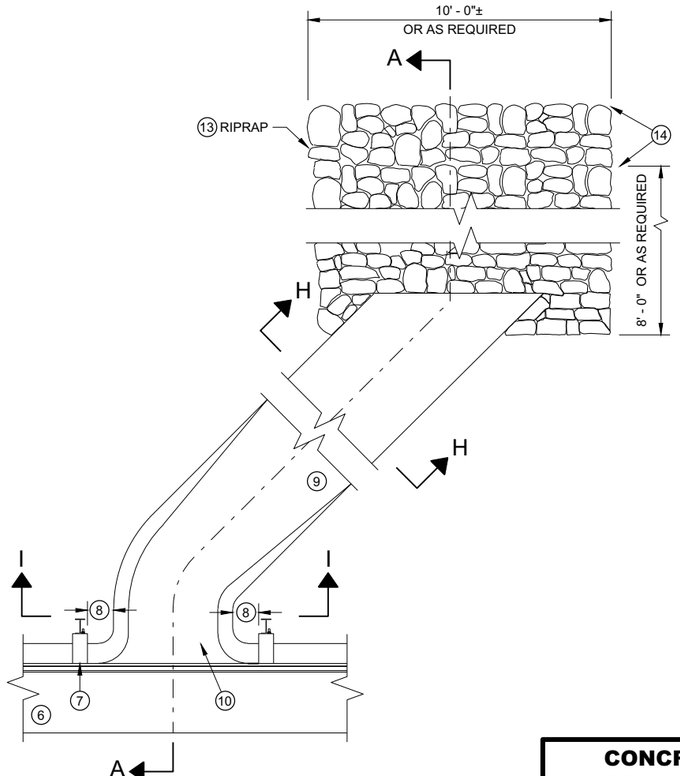
SECTION H - H



SECTION I - I



PLAN VIEW PERPENDICULAR FLUME



PLAN VIEW SKEWED FLUME

GENERAL NOTES

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

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

1. USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
2. NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
3. PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.
4. CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.
5. PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.
6. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.
7. PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
8. CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.
9. MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.
10. SEE ROADWAY PLANS FOR FLUME LOCATION.
11. START CURB AND GUTTER TRANSITION OR END SECTION.
12. DEPRESS FLOW LINE (SEE DETAIL)
13. MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
14. LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH AS REQUIRED.
15. GEOTEXTILE FABRIC TYPE HR.

6

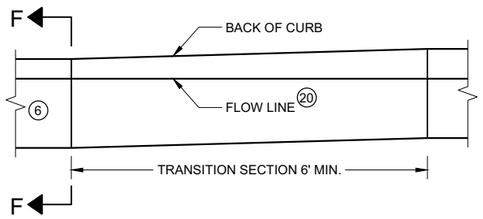
SDD 08D02 - 07b

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

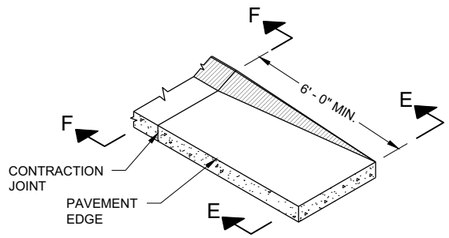
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

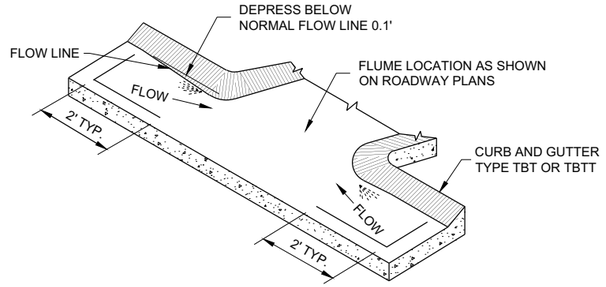
SDD 08D02 - 07b



CURB AND GUTTER TRANSITION SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED
36 INCH TYPE TBT OR TBTT



CURB AND GUTTER END SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED
36 INCH TYPE TBT OR TBTT



CURB AND GUTTER FLOW LINE DEPRESSION
AT FLUMES CONCRETE CURB AND GUTTER
4-INCH SLOPED 36 INCH TYPE TBT OR TBTT

GENERAL NOTES

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

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

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

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

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)

(13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

(15) GEOTEXTILE FABRIC TYPE HR.

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

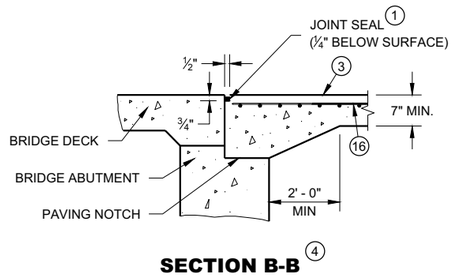
(17) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.

(18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.

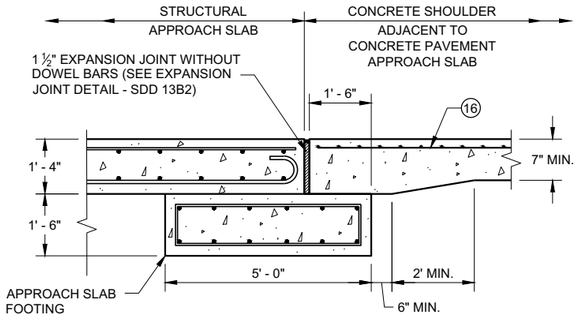
(19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.

(20) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.

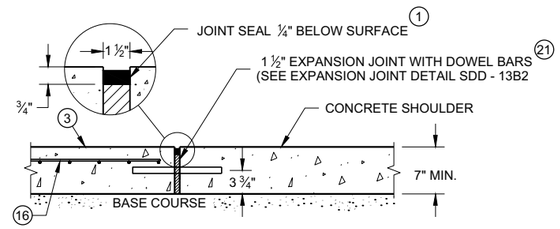
(21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



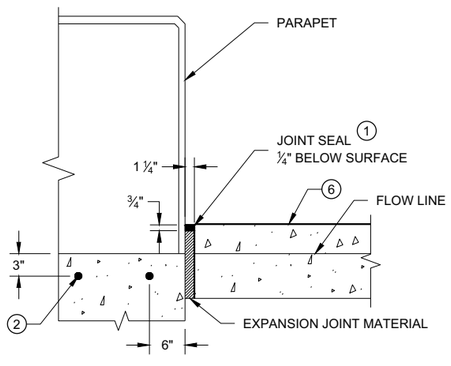
SECTION B-B (4)



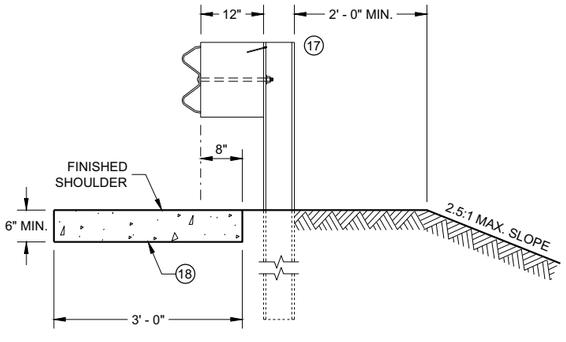
SECTION C - C
JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



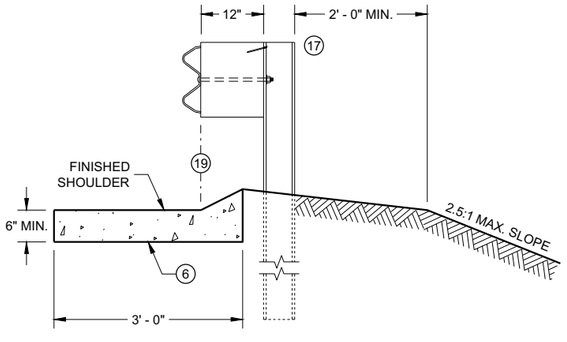
SECTION C - C
JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS



SECTION D - D



SECTION E - E



SECTION F - F

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

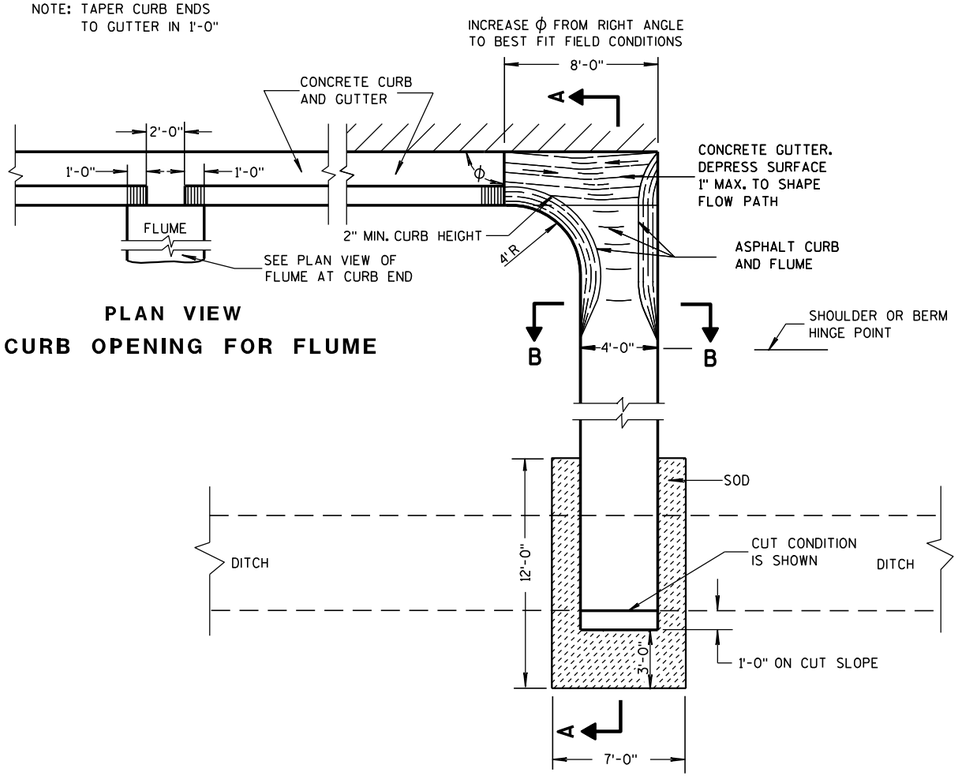
APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

SDD 08D02 - 07c

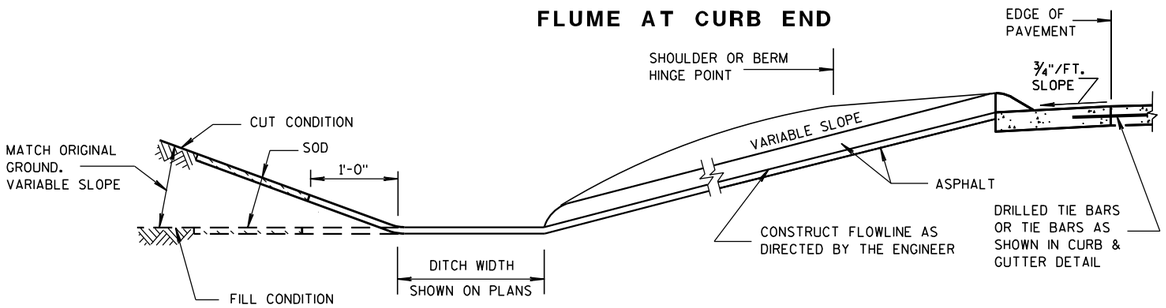
SDD 08D02 - 07c

ASPHALTIC FLUME

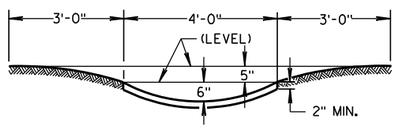


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

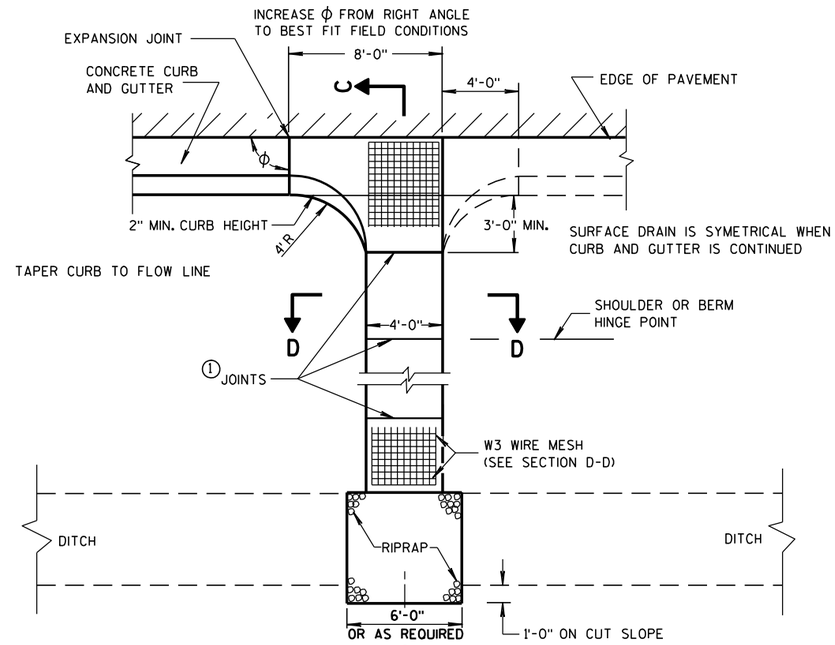
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

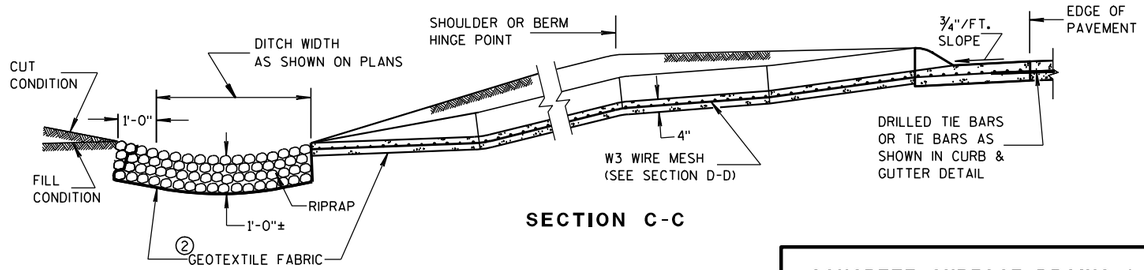
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

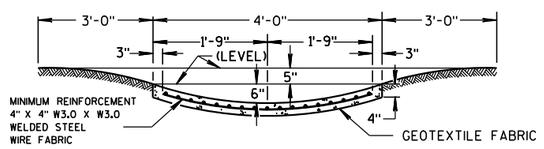
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C

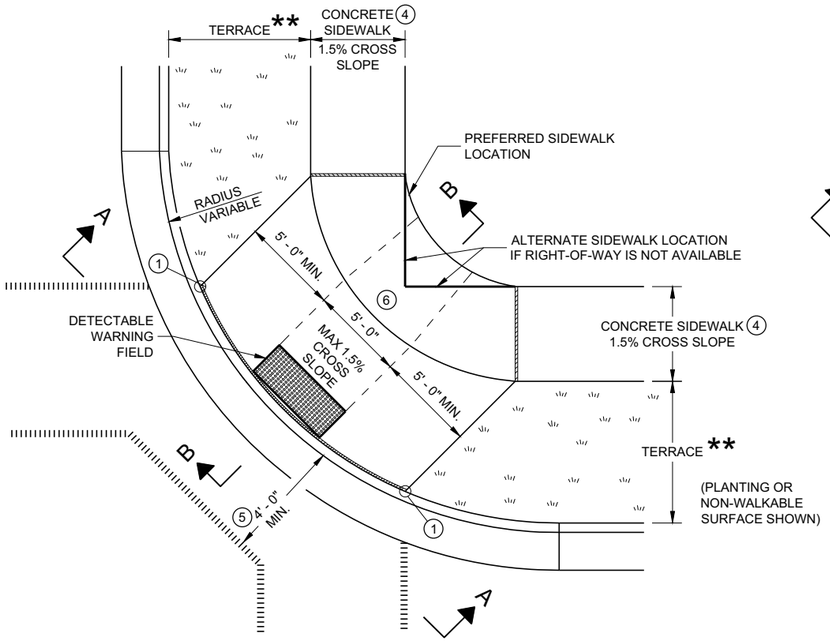


SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

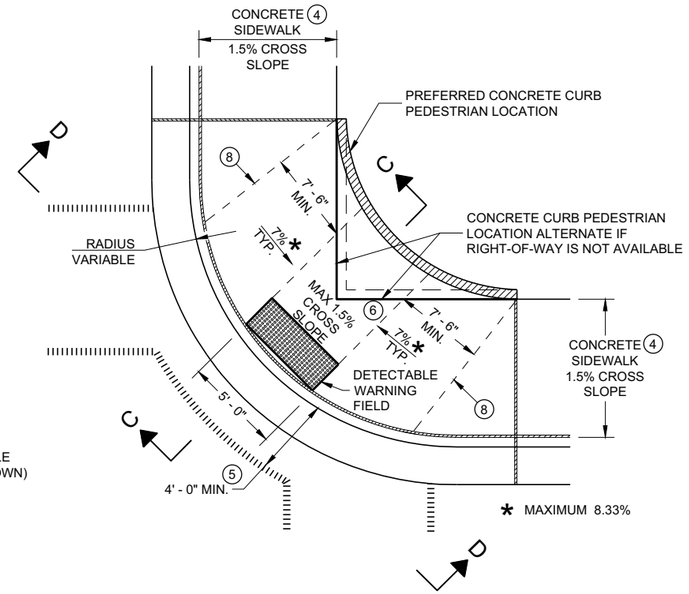
APPROVED
9-4-08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
253
MENT
FHWA



PLAN VIEW

CURB RAMP TYPE 1

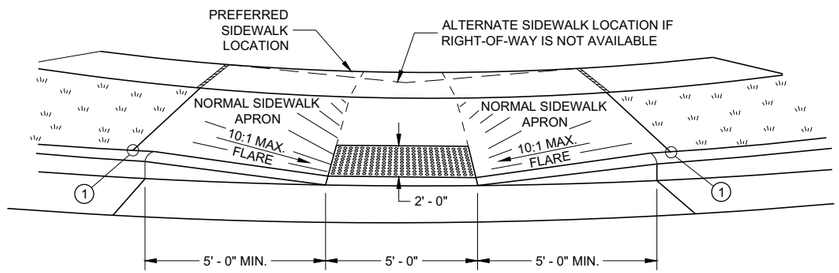
(CENTER OF CORNER RADIUS)



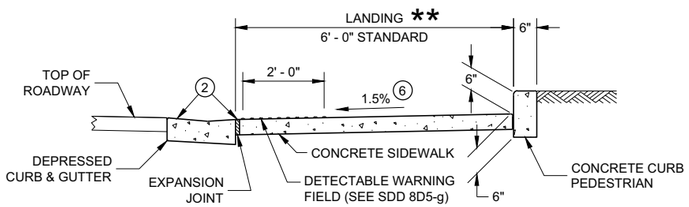
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

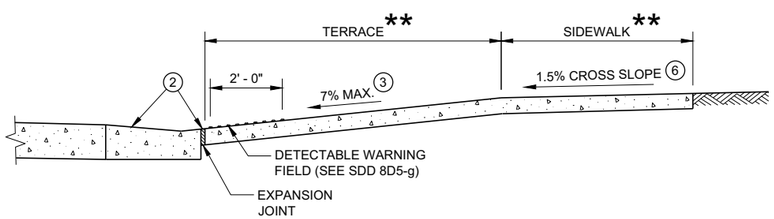


VIEW A - A FOR TYPE 1

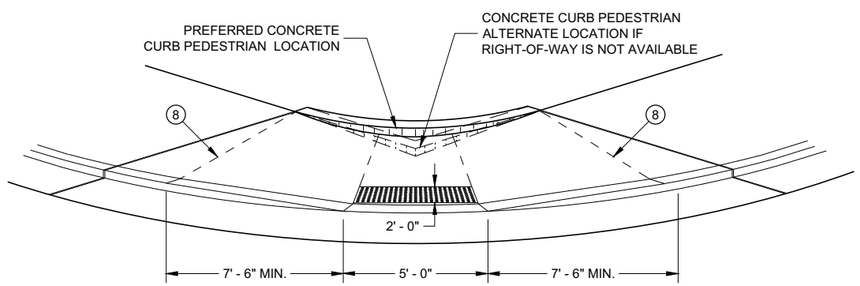


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED 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 LINEAR 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. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 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 LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

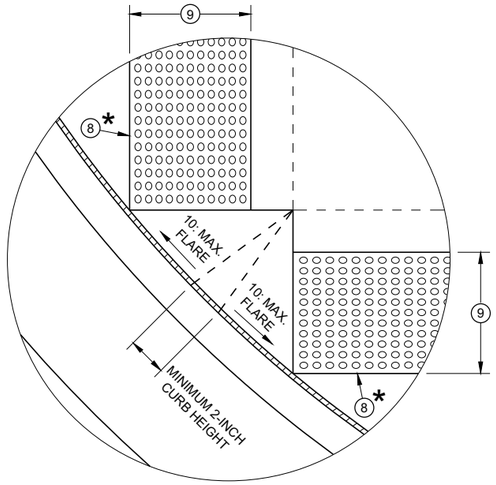
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

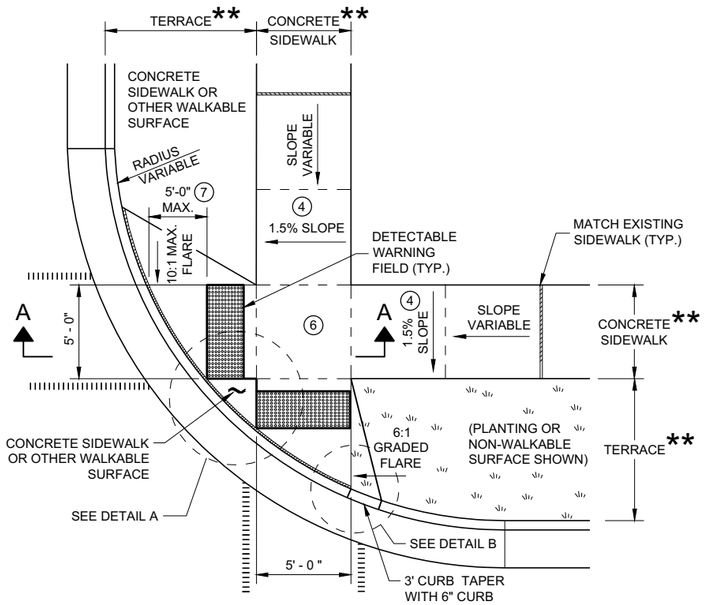
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

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 LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

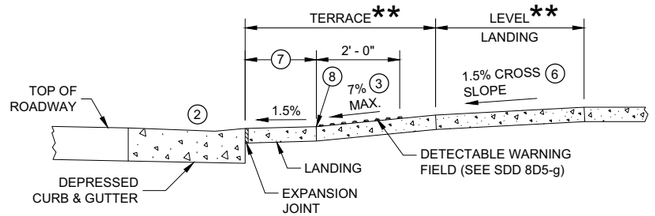
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

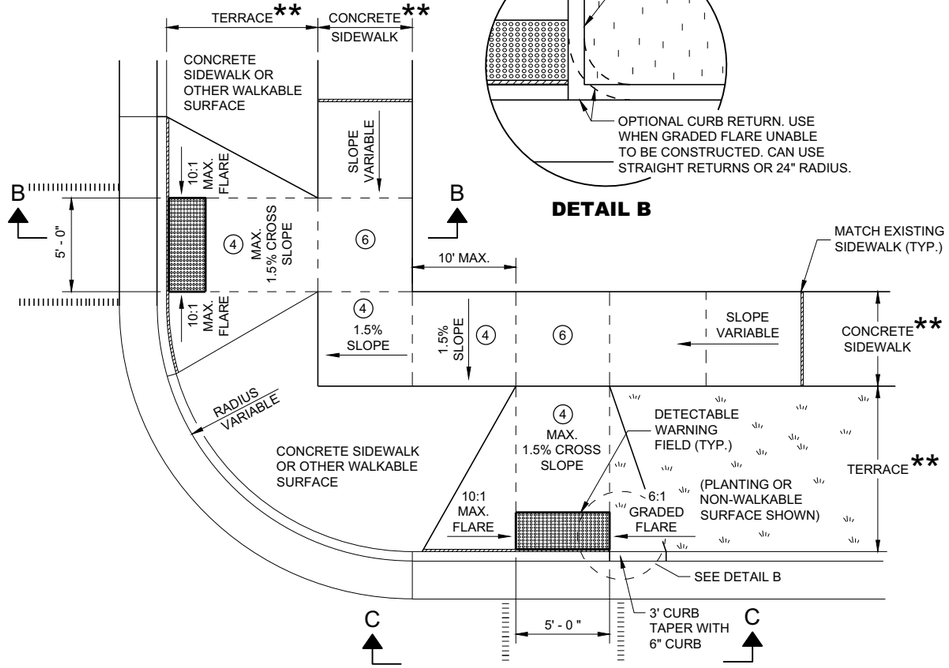
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



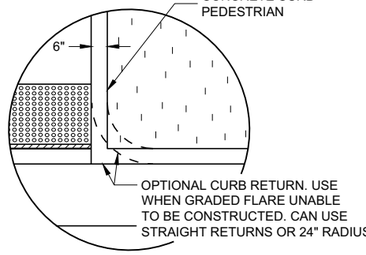
SECTION A - A FOR TYPE 2

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

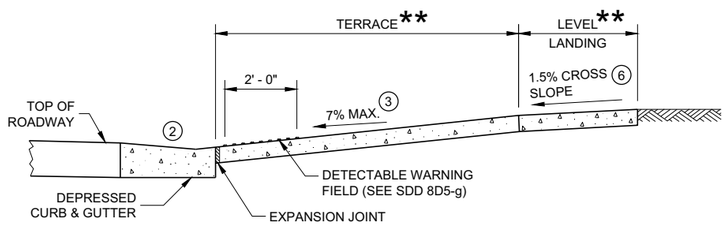
** WIDTH SHOWN ELSEWHERE IN THE PLANS



PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



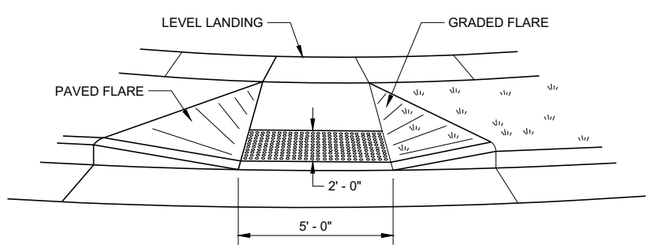
DETAIL B



SECTION B - B FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



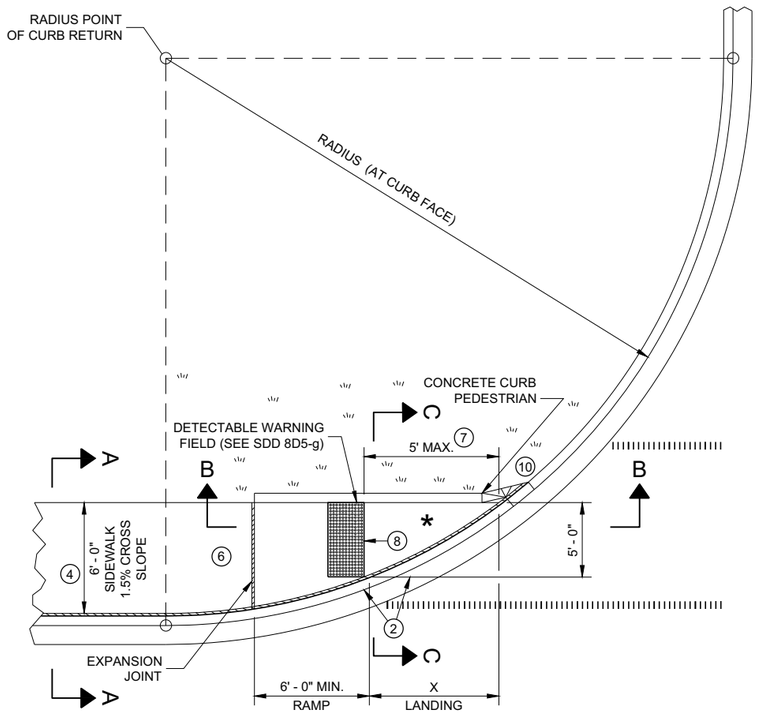
VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

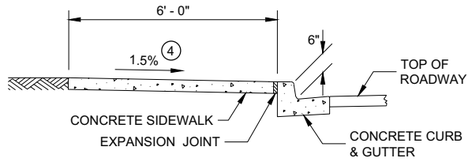


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

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 LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 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 LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

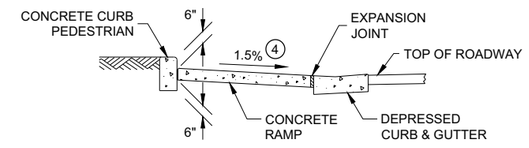
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

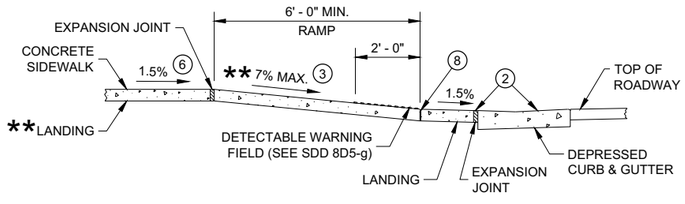
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



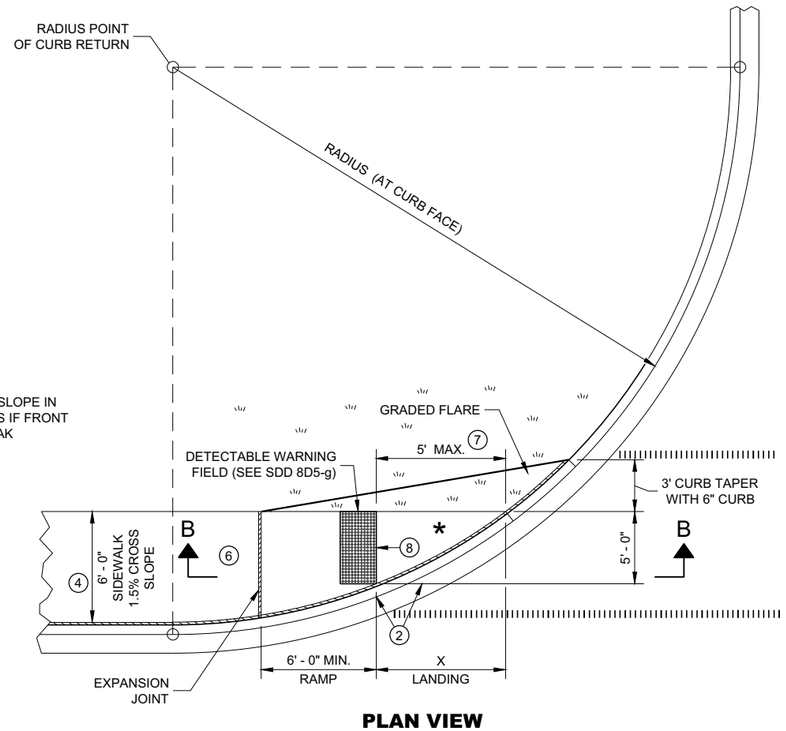
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

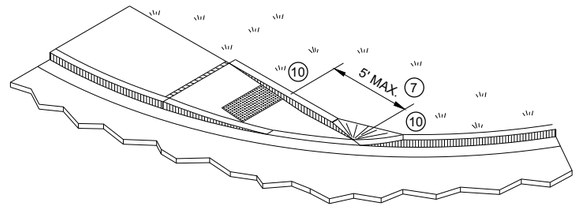
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

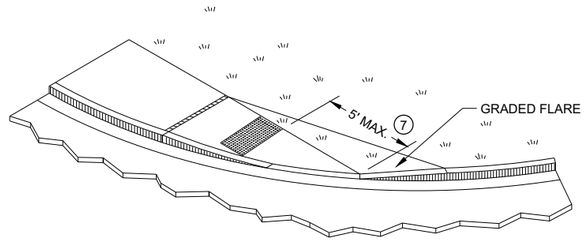


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



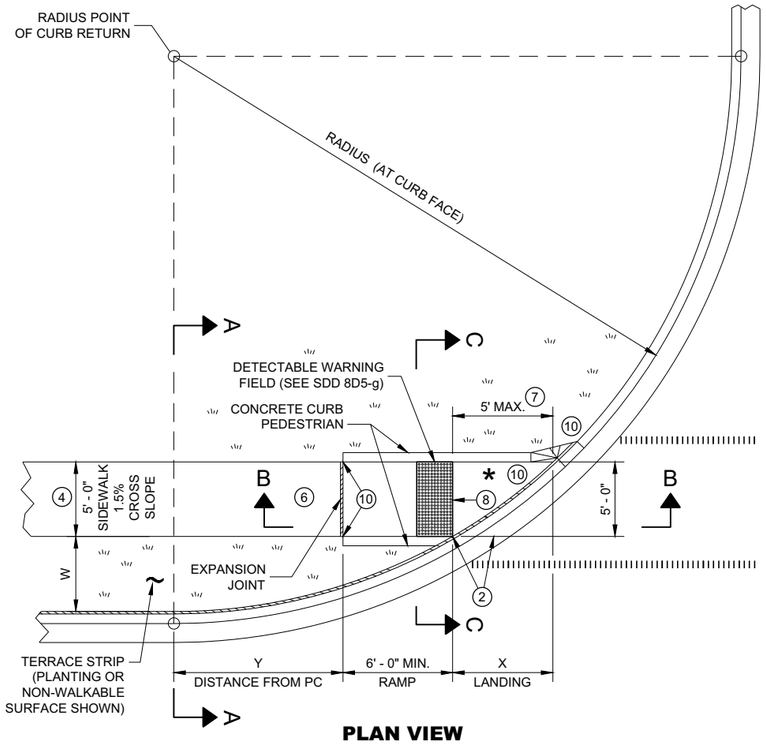
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c



PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

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 LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

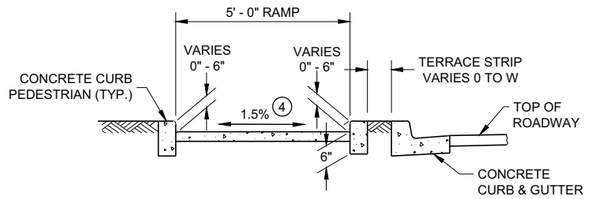
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

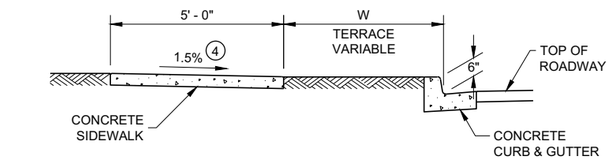
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

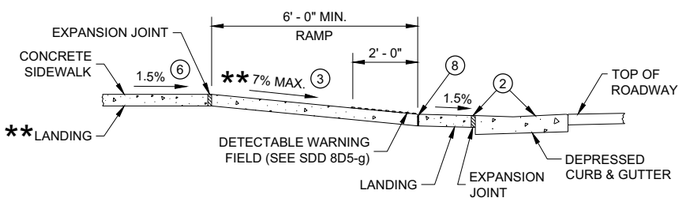
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



SECTION C - C FOR TYPE 4B



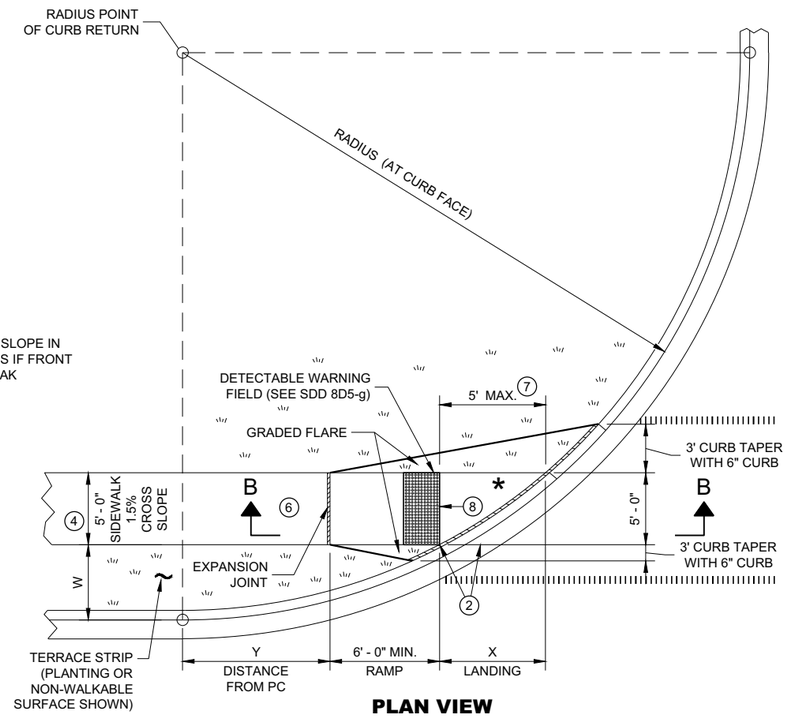
SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

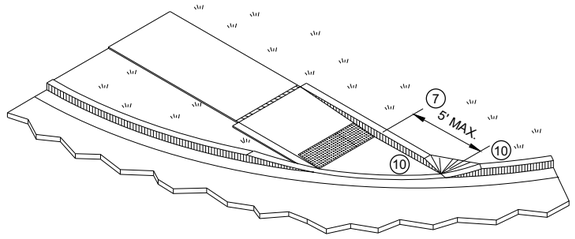
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

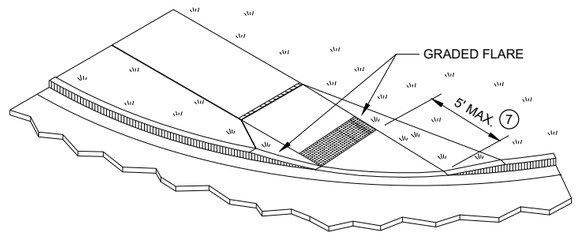


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



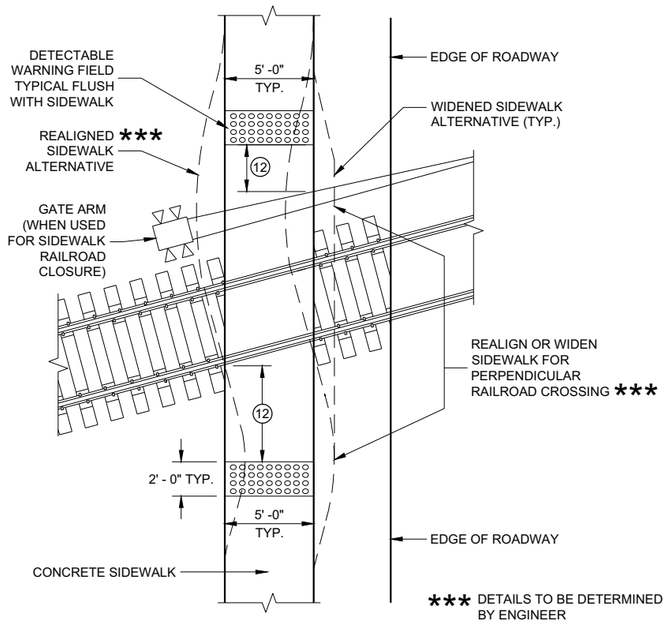
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

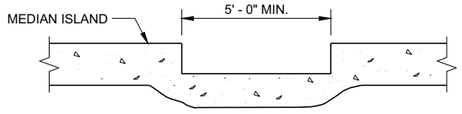
6

SDD 08D05 - 20d

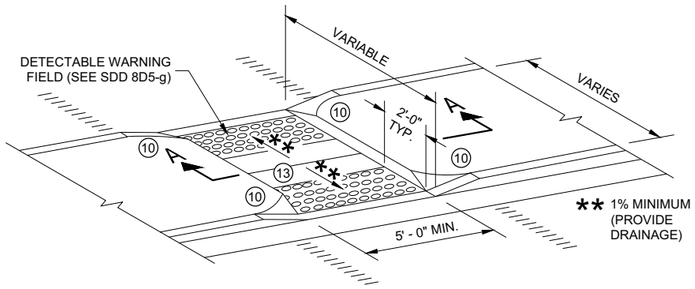


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

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 LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 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 LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

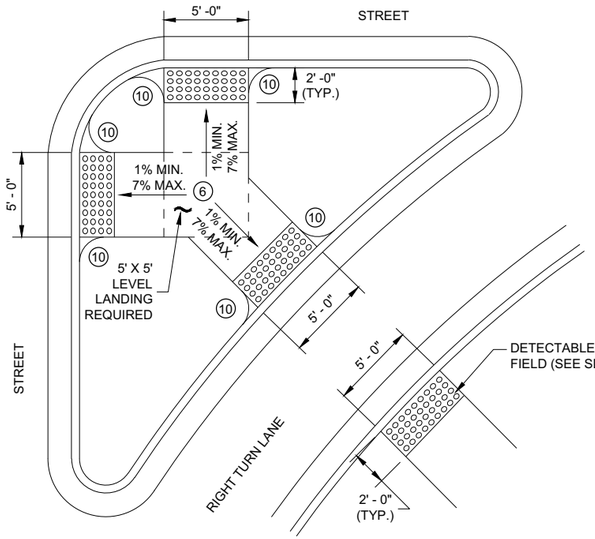
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(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 AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

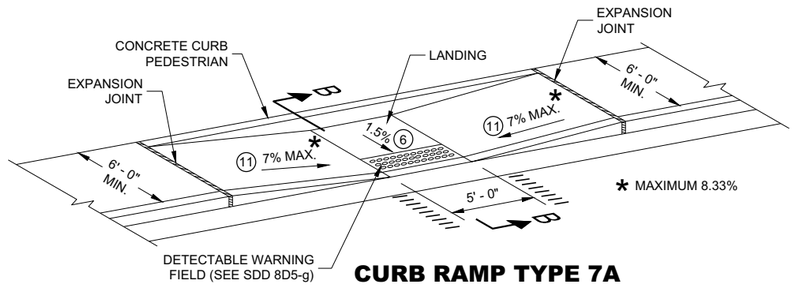
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

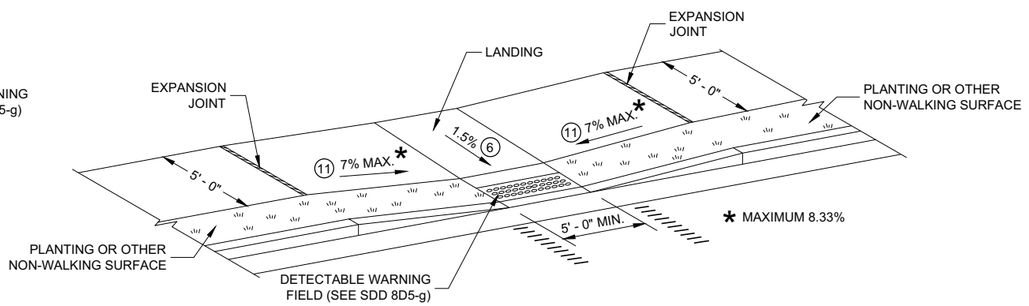
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

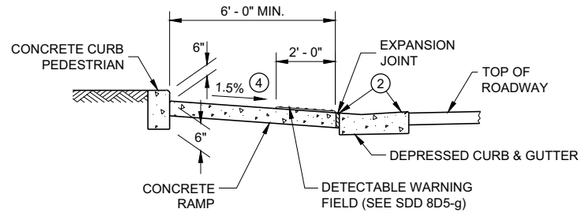
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

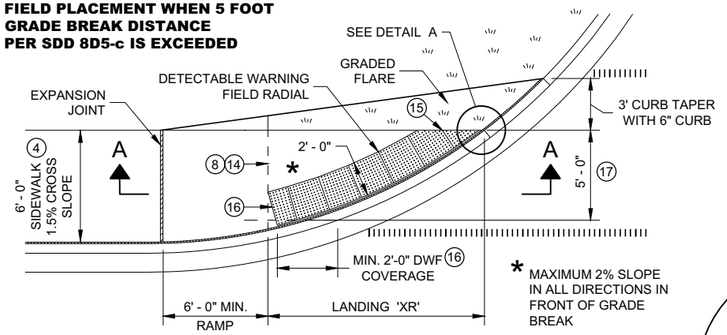
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05 - 20e

SDD 08D05 - 20e

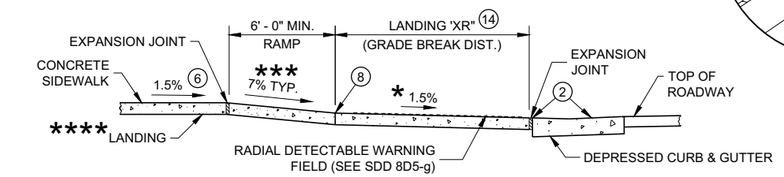
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

CURB RAMP TYPE 4A1

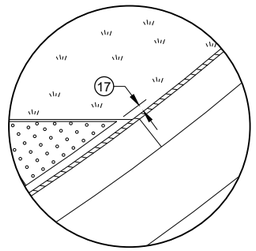
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1



DETAIL A

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 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 BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

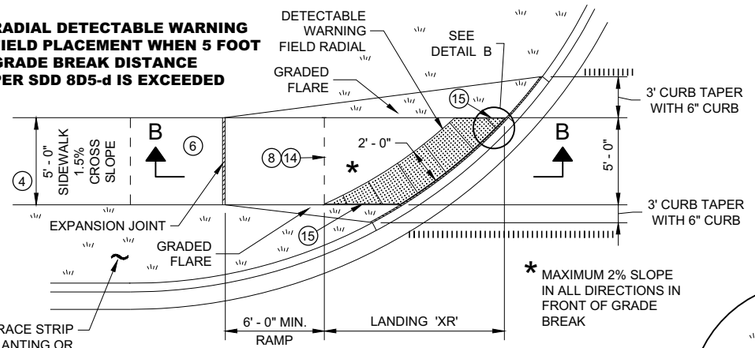
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

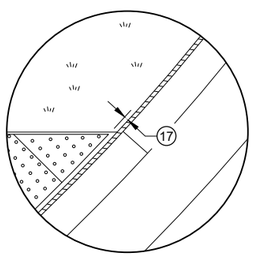
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



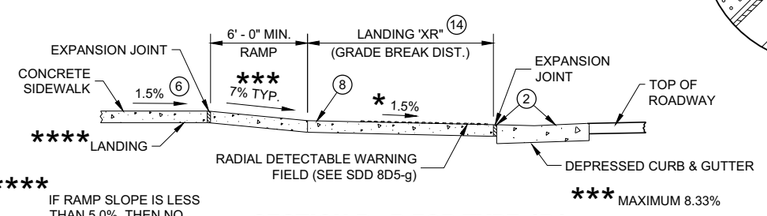
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B

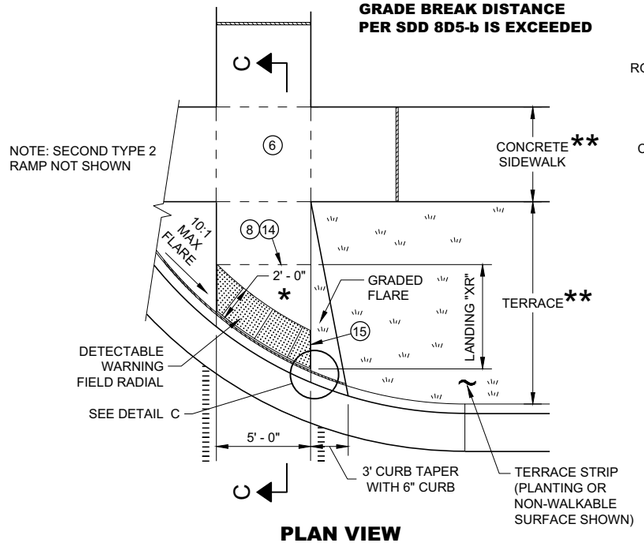


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

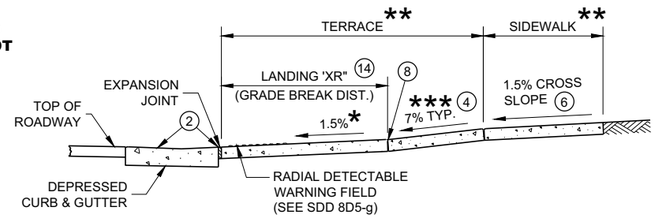


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

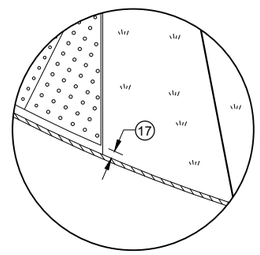


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

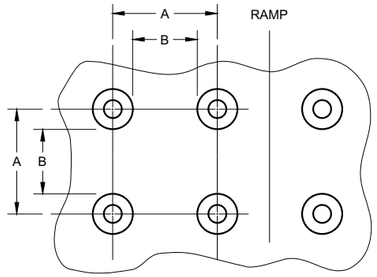
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05 - 20f

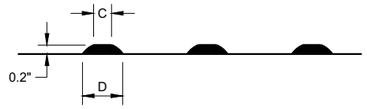
SDD 08D05 - 20f

	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.

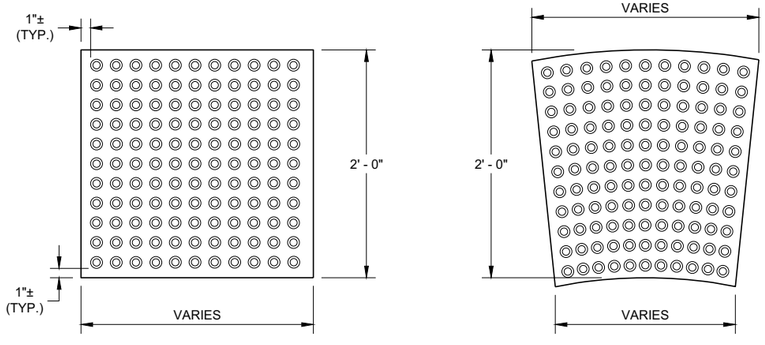


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

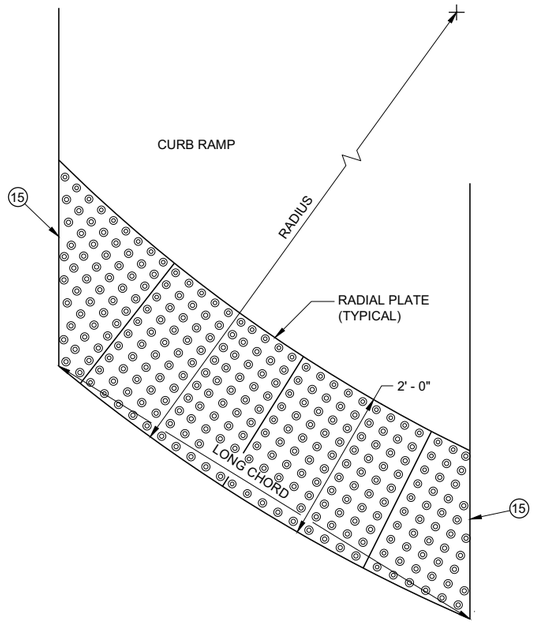
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

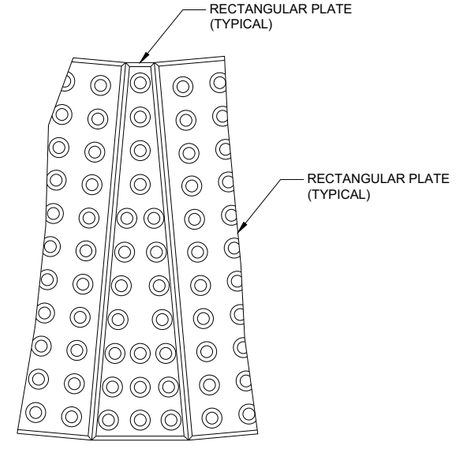
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

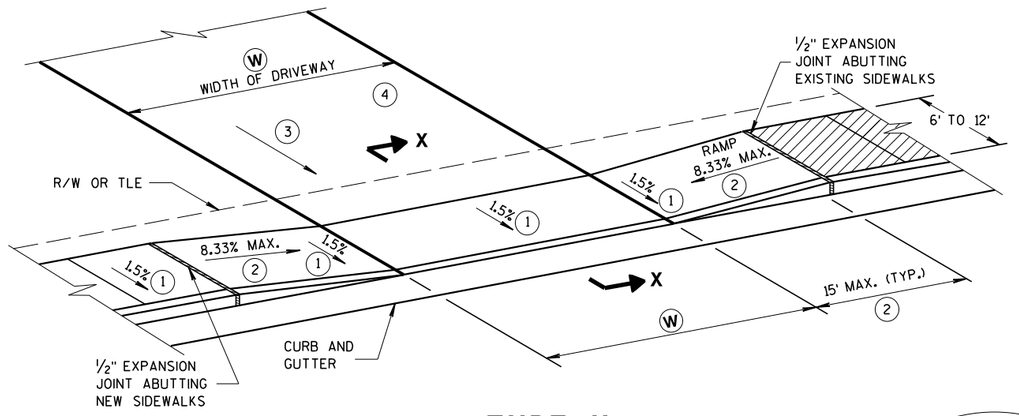
CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

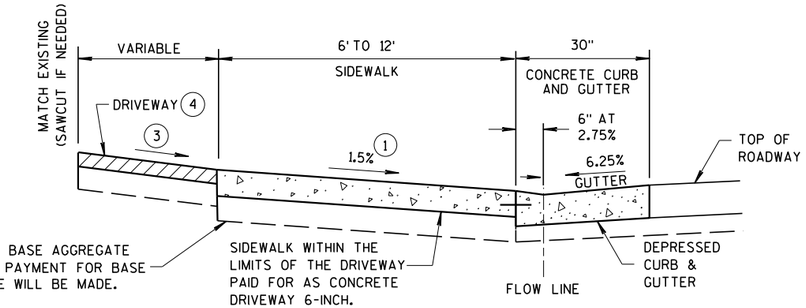
APPROVED
May 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

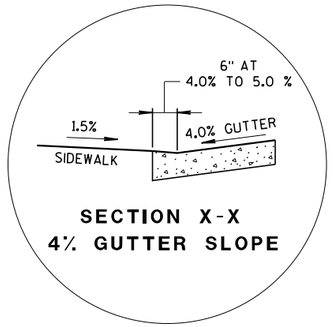
6
SDD 08D05 - 20g



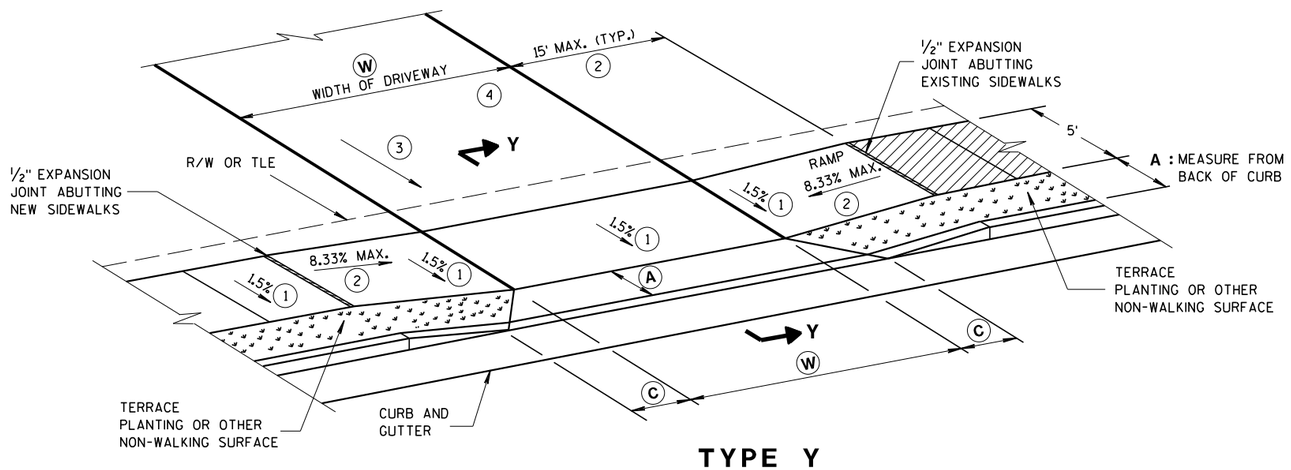
TYPE X
SIDEWALK ABUTS CURB & GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X-X



SECTION X-X
4% GUTTER SLOPE



TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

W: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)
16' MIN. - 35' MAX. COMMERCIAL (CE)

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

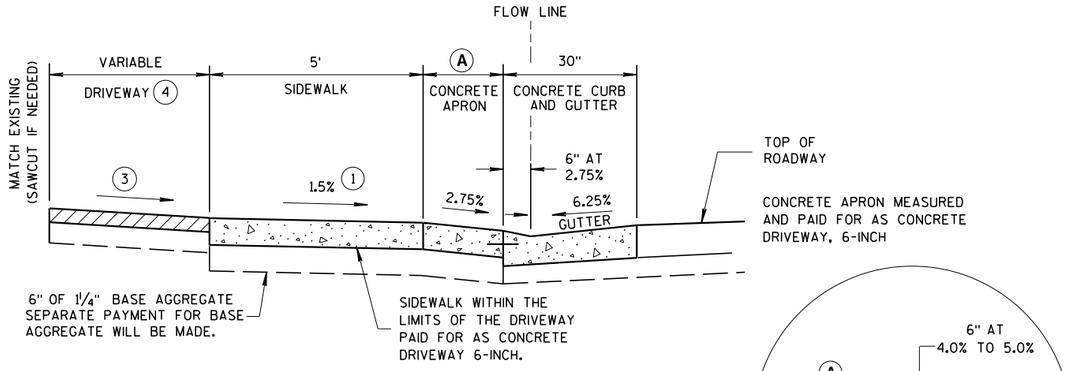
OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

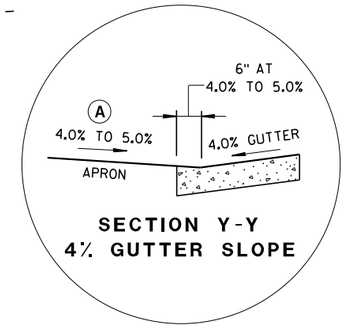
(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
- 10.5% UP AWAY FROM SIDEWALK (SAG)
- 8.5% DOWN AWAY FROM SIDEWALK (CREST)
- ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)



NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS

SECTION Y-Y



SECTION Y-Y
4% GUTTER SLOPE

DRIVEWAY DETAIL
WITH CONCRETE CURB & GUTTER
(URBAN AND SUBURBAN)

TABLE Y

(A) FEET	(C) FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'

NOT TO SCALE

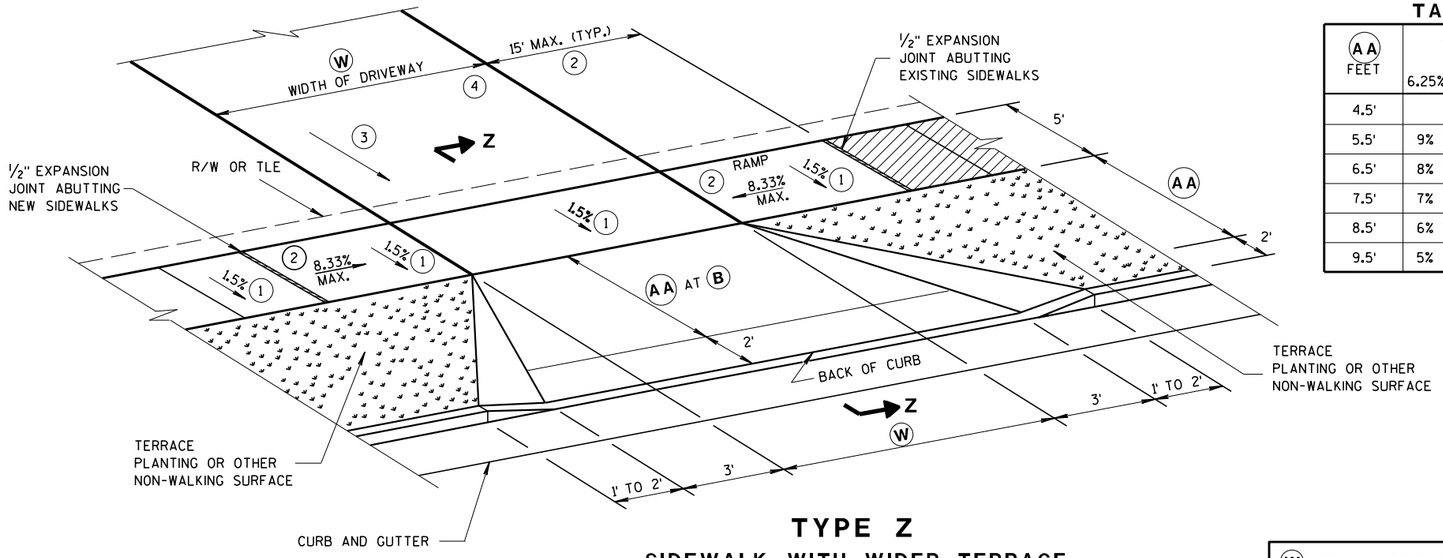
DRIVEWAY AND SIDEWALK RAMPS
TYPES X & Y

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

S.D.D. 8 D 18-2

6



TYPE Z

SIDEWALK WITH WIDER TERRACE

TERRACE VARIES 7 TO 12 FEET

TABLE Z

(AA) FEET	(B) % 6.25% GUTTER	(B) % 4% GUTTER
4.5'	11.5%	9% TO 11.5%
5.5'	9% TO 11.5%	8% TO 11.5%
6.5'	8% TO 11.5%	6% TO 11.5%
7.5'	7% TO 11.5%	6% TO 11.5%
8.5'	6% TO 11.5%	5% TO 11.5%
9.5'	5% TO 11.5%	4% TO 11.5%

(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM

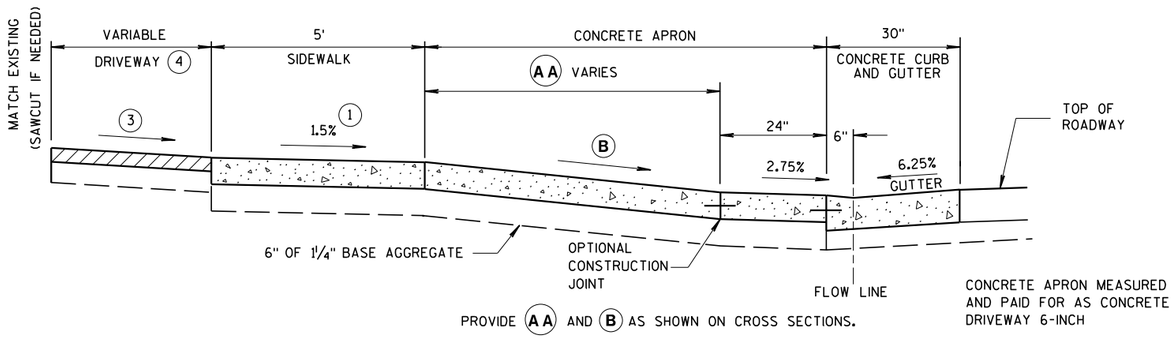
10.5% UP AWAY FROM SIDEWALK (SAG)

8.5% DOWN AWAY FROM SIDEWALK (CREST)

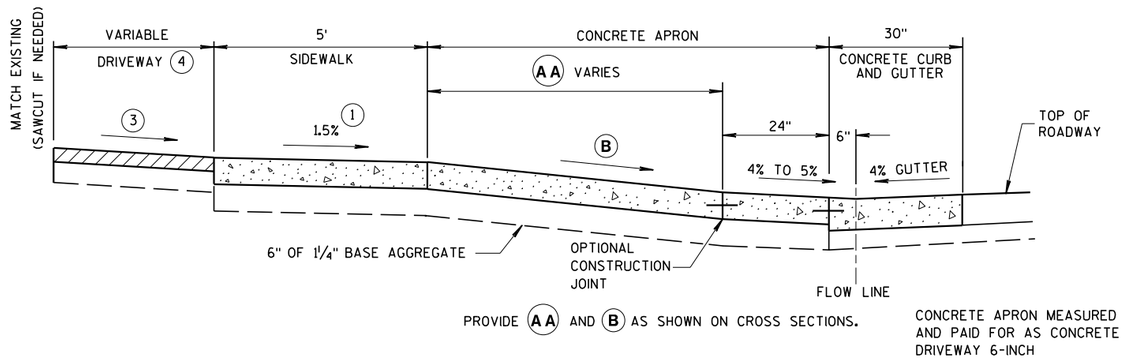
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES

- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)



6.25% GUTTER SLOPE



4% GUTTER SLOPE

NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS FOR **B** VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY 6-INCH.

SEPARATE PAYMENT FOR BASE AGGREGATE WILL BE MADE.

SECTION Z-Z

DRIVEWAY DETAIL WITH CONCRETE CURB & GUTTER

(URBAN AND SUBURBAN)

NOT TO SCALE

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

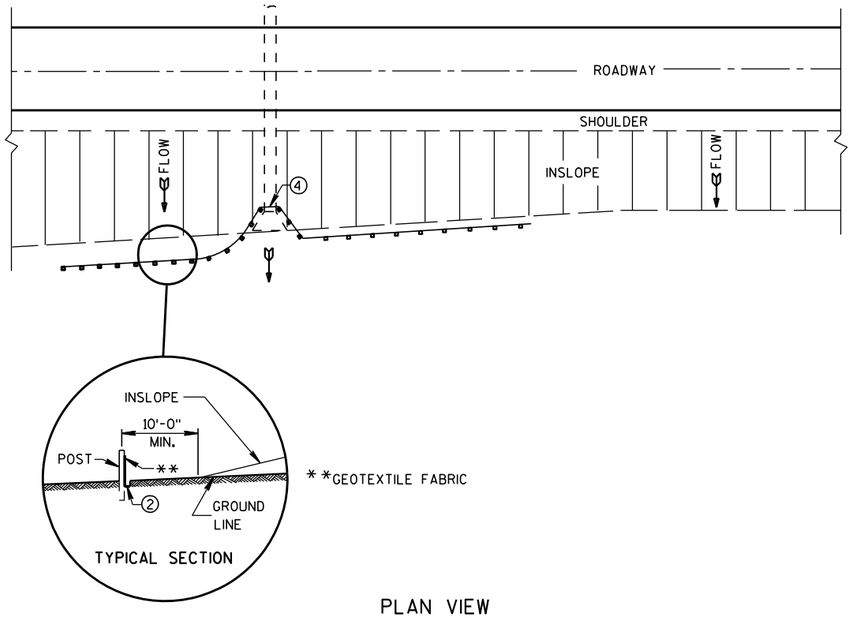
APPROVED
March 2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6

S.D.D. 8 D 19-2

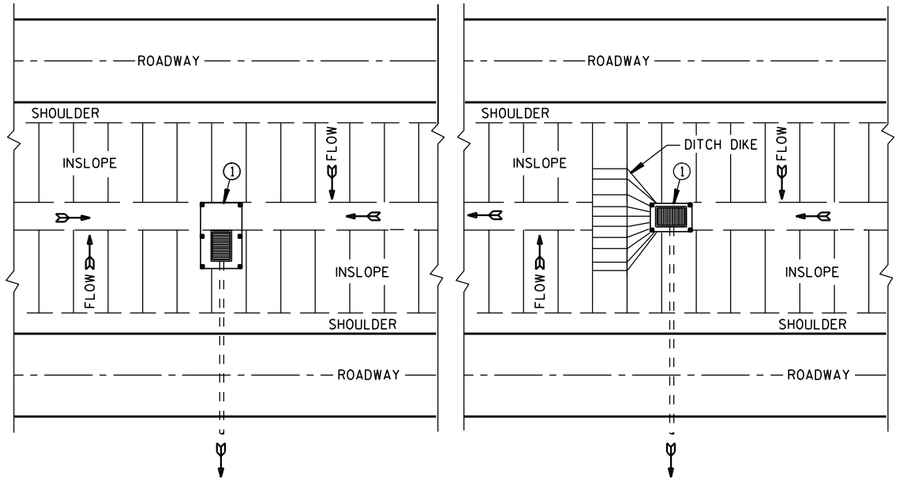
6

S.D.D. 8 D 19-2



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



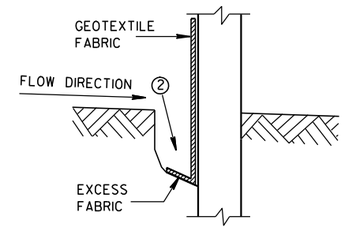
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

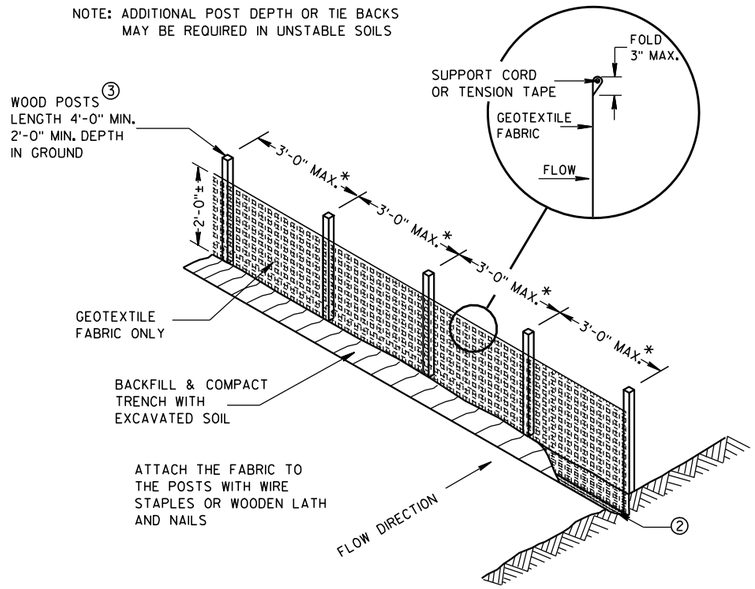
GENERAL NOTES

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

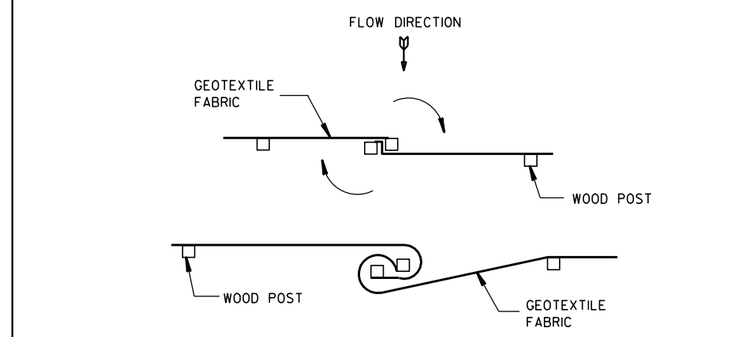
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



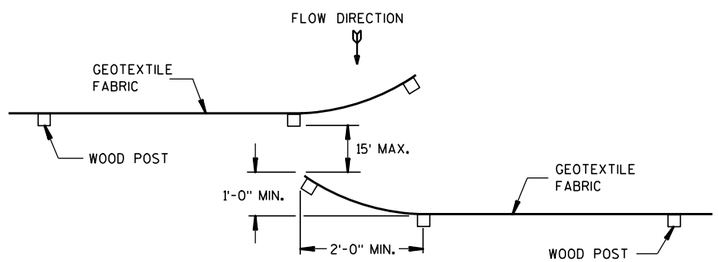
TRENCH DETAIL



SILT FENCE

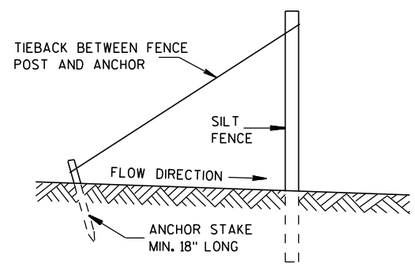


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

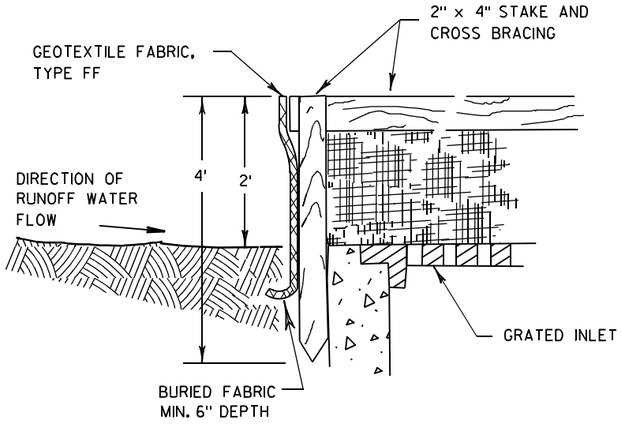
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

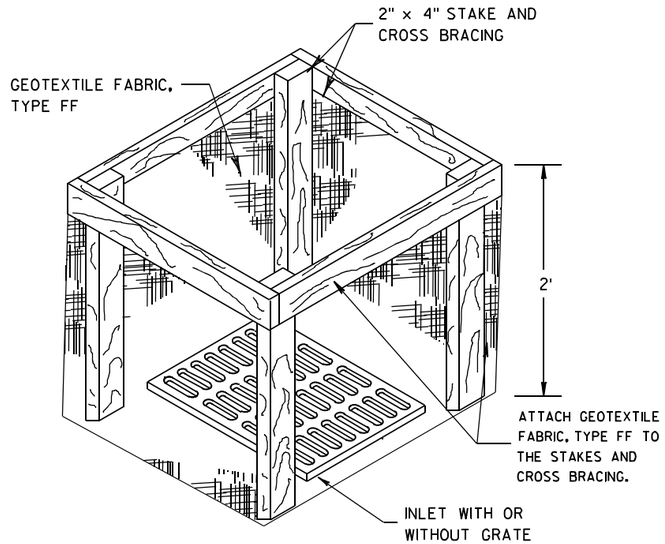
6

S.D.D. 8 E 9-6

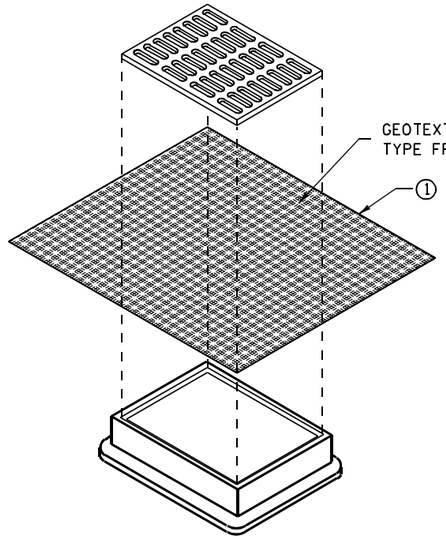
6

S.D.D. 8 E 9-6



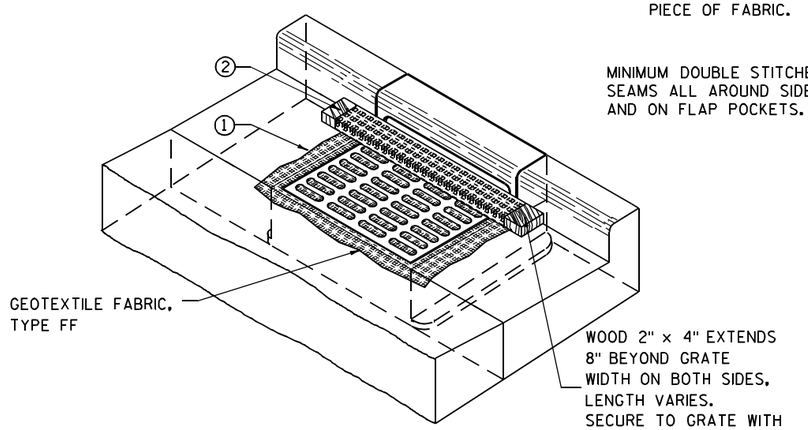


INLET PROTECTION, TYPE A

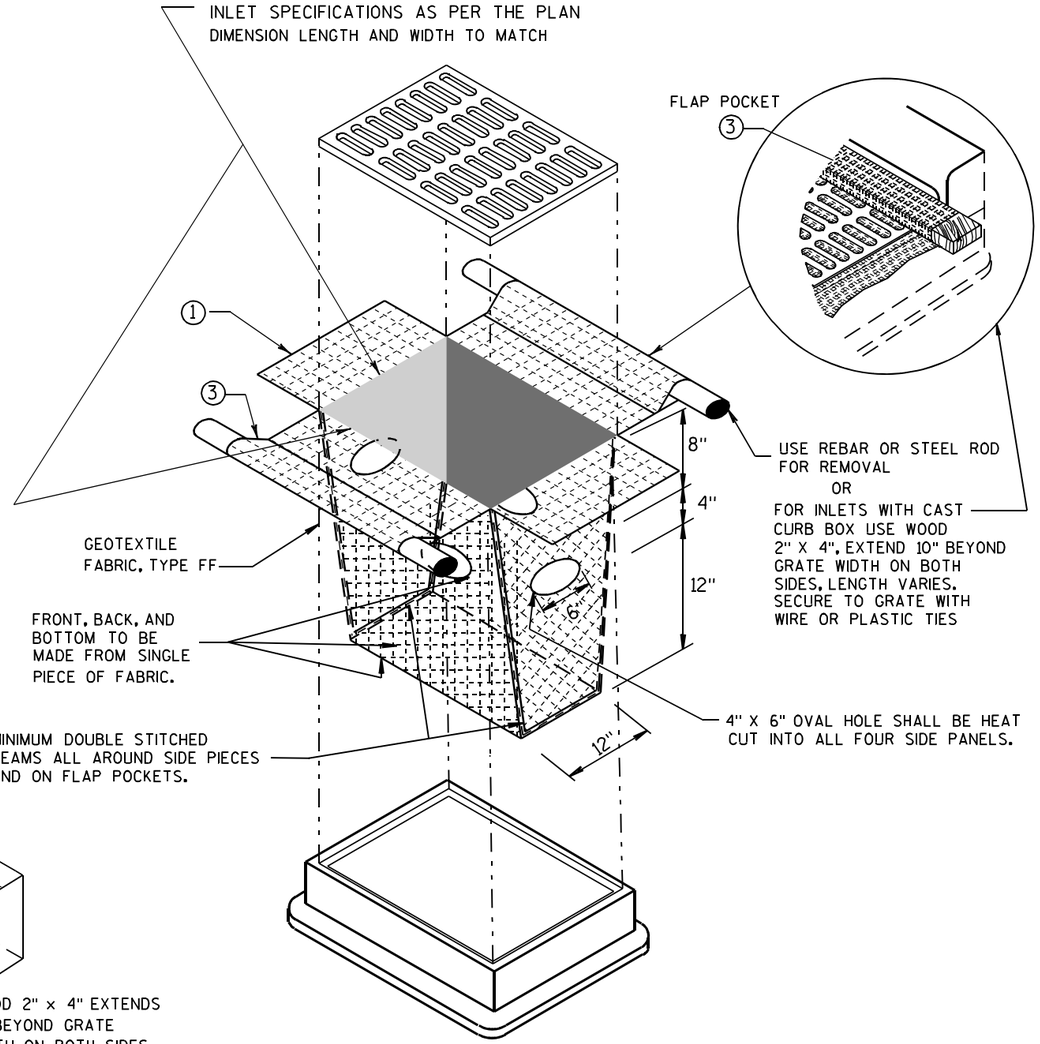


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

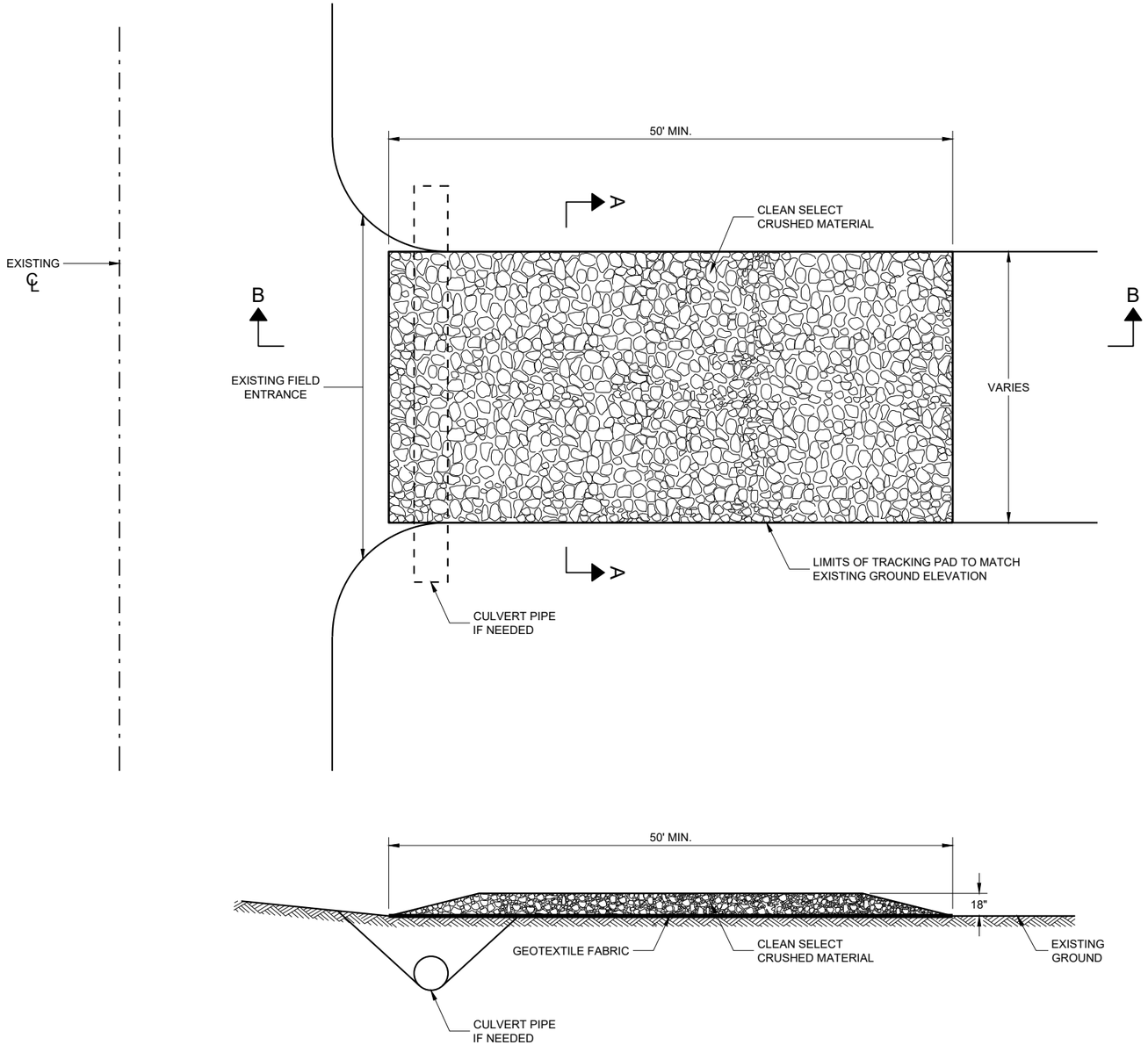
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



SECTION B - B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

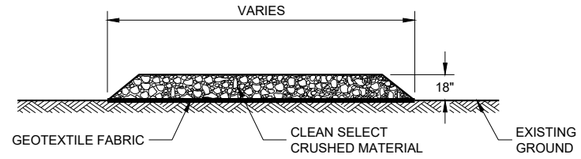
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A - A

6

SDD 08E14 - 01

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/24/2011
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 08E14 - 01

METAL APRON ENDWALLS

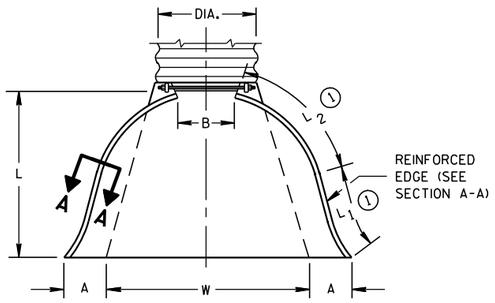
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

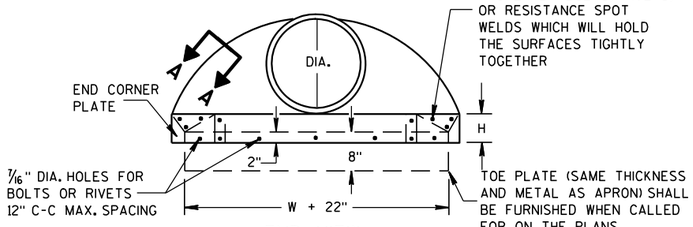
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

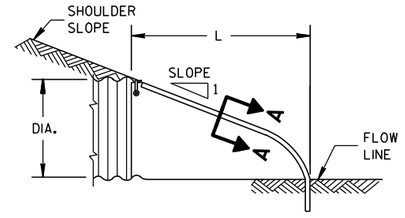
*MINIMUM
**MAXIMUM



PLAN VIEW

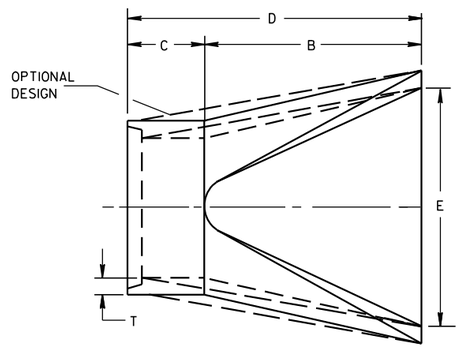


END VIEW

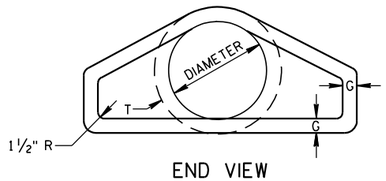


SIDE ELEVATION

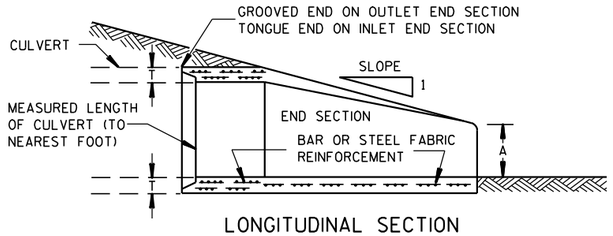
METAL ENDWALLS



PLAN

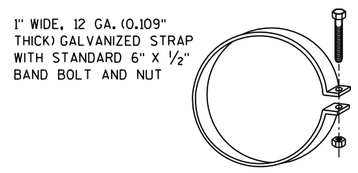


END VIEW



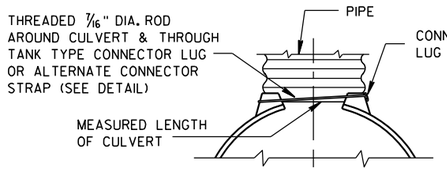
LONGITUDINAL SECTION

CONCRETE ENDWALLS

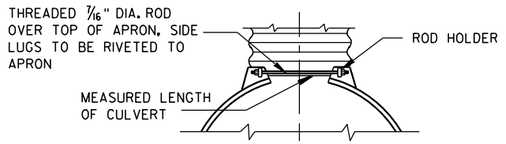


ALTERNATE FOR TYPE 1 CONNECTION

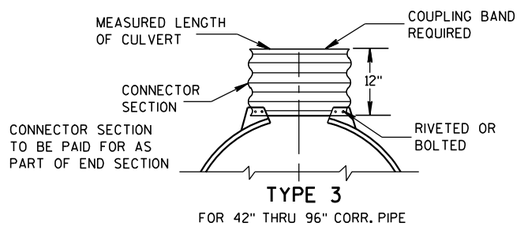
END SECTION CONNECTOR STRAP



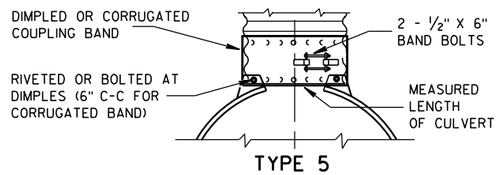
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

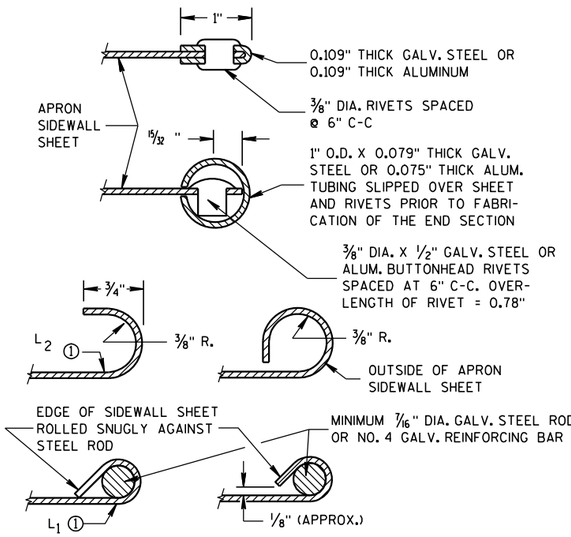
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

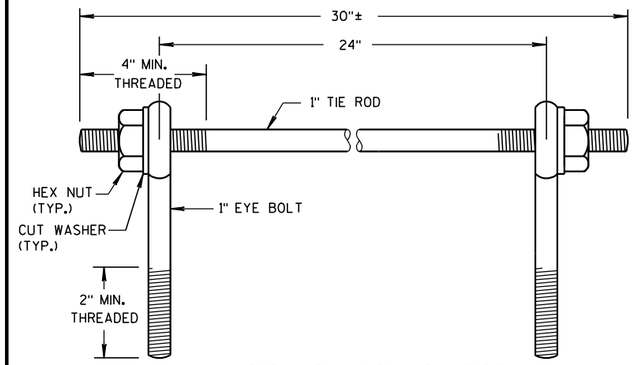
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

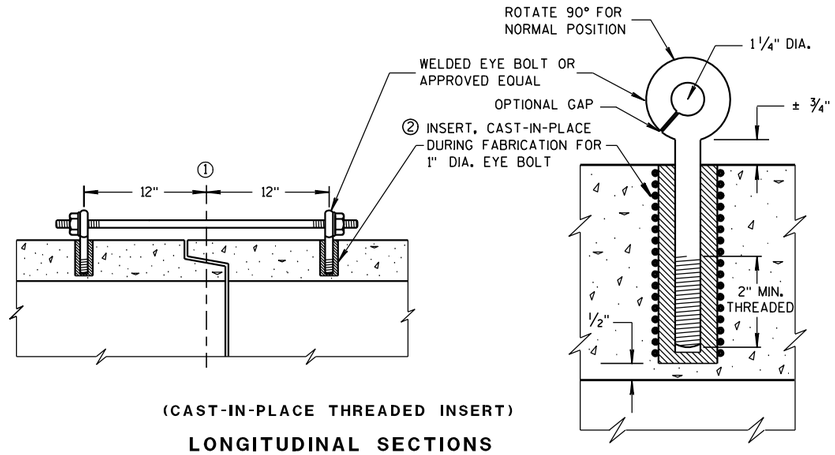
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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.

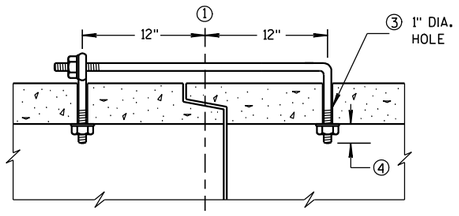
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

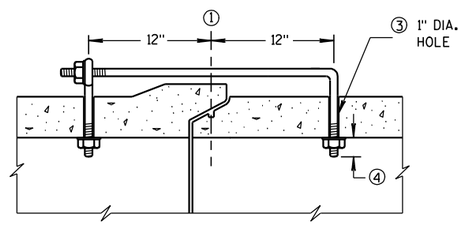
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

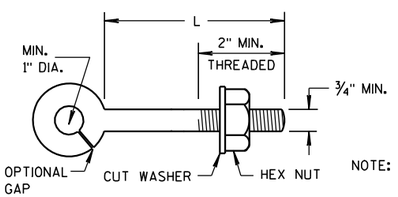


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

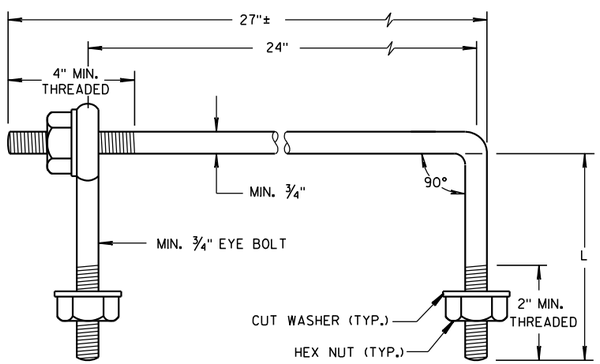
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

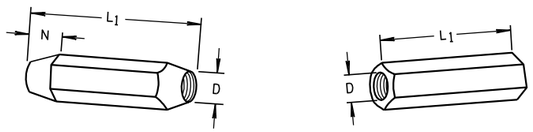
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

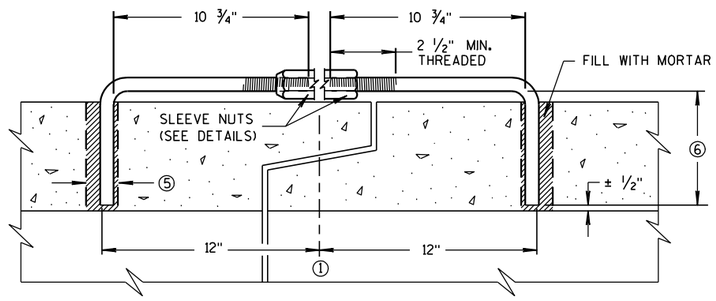
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

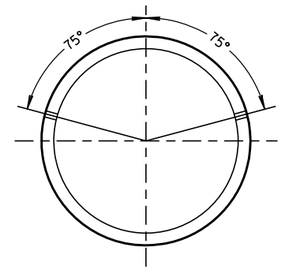
SLEEVE NUTS



LONGITUDINAL SECTION

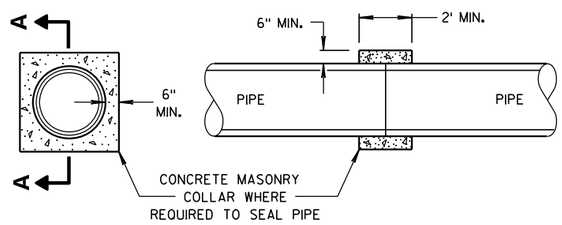
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

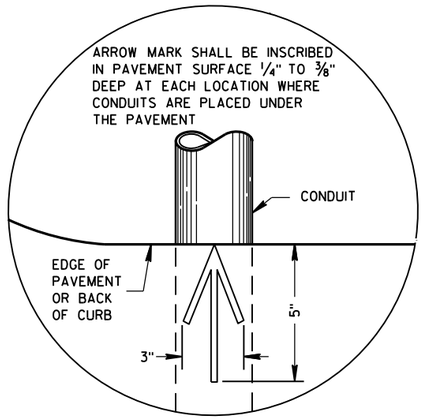
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
267
FHWA

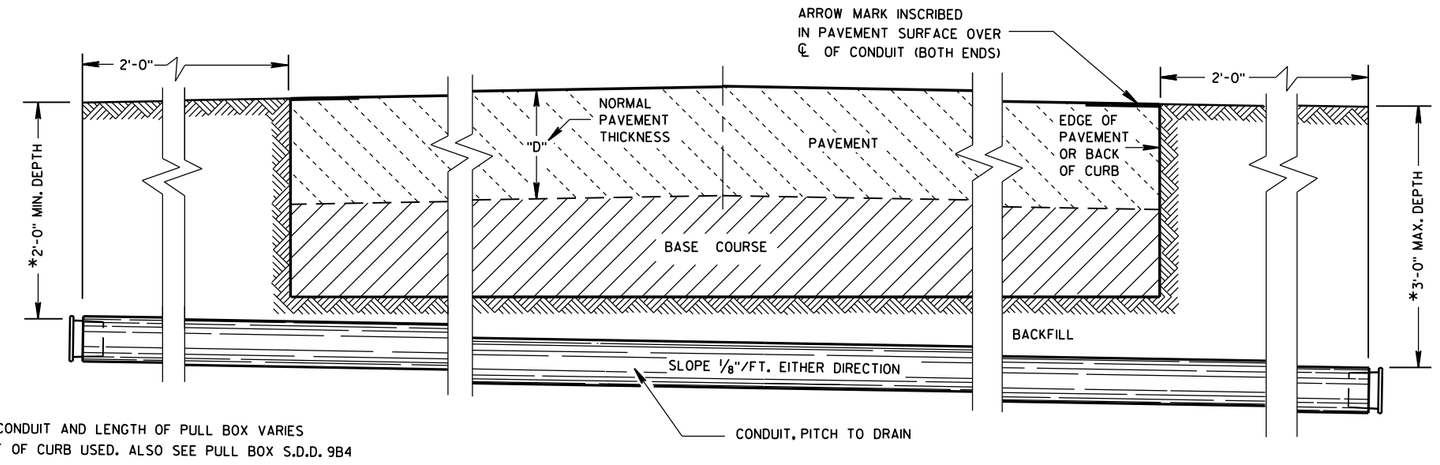
6

S.D.D. 8 F 4-7



PLAN VIEW

ARROW MARK



*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

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.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 268
FHWA

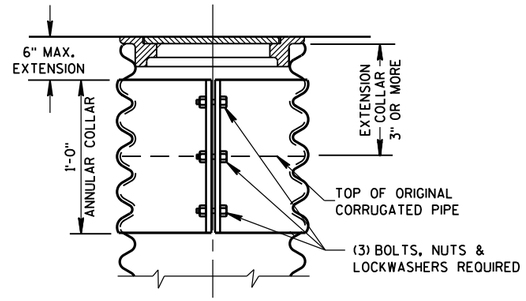
6
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

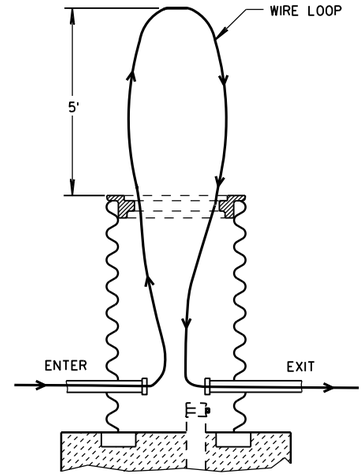
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	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.

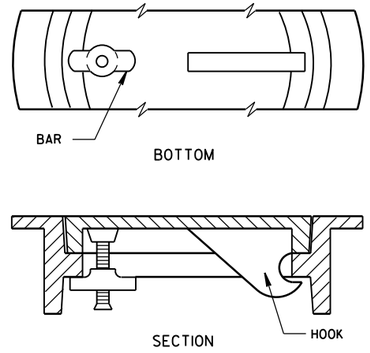
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

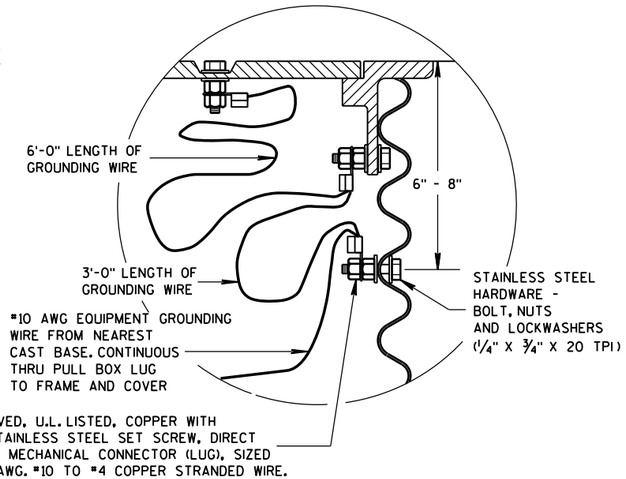


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



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.

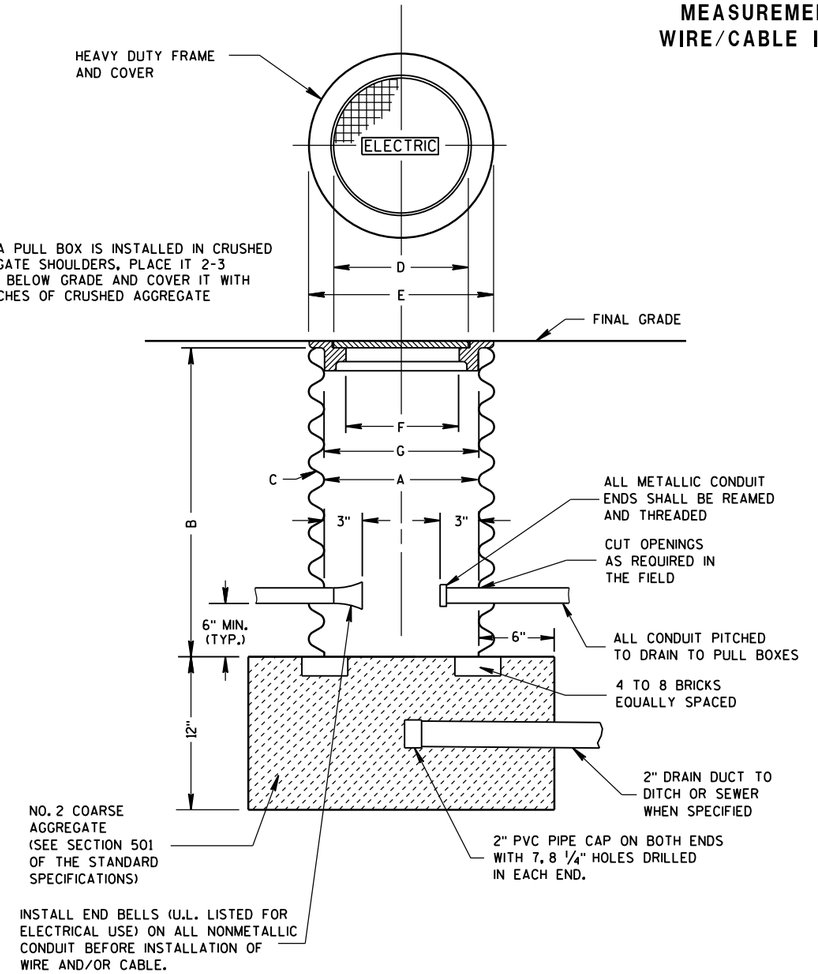
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

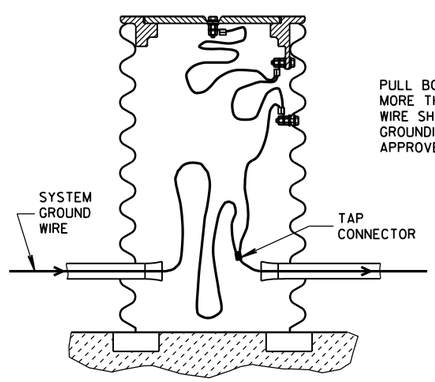
GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

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



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

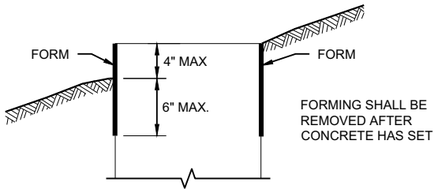
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 B 4-11

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 DRAWINGSHALL 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 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 A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X 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 NON-METALLIC 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.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES 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.

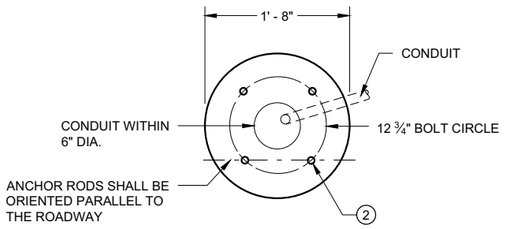
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

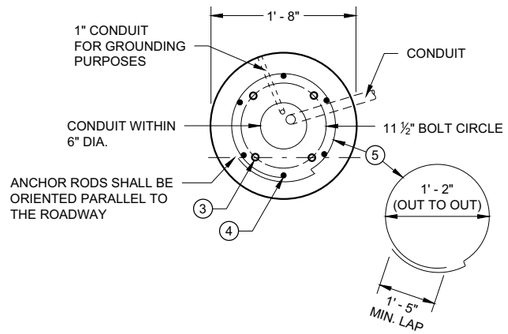
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

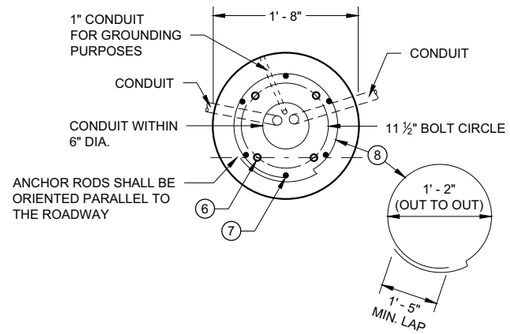
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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 OF 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 STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

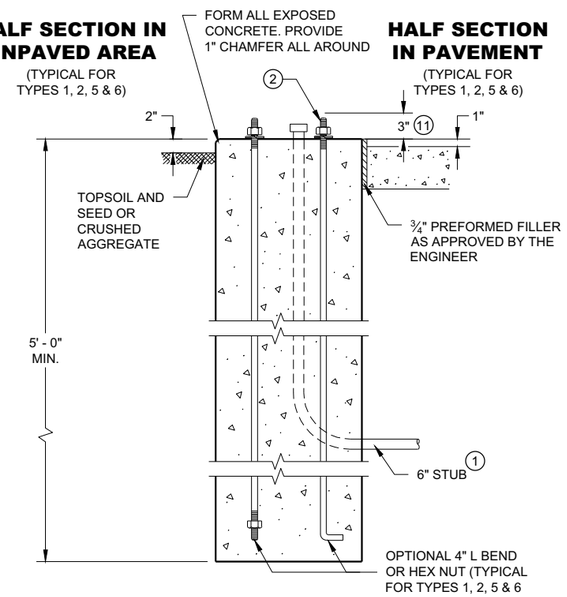
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

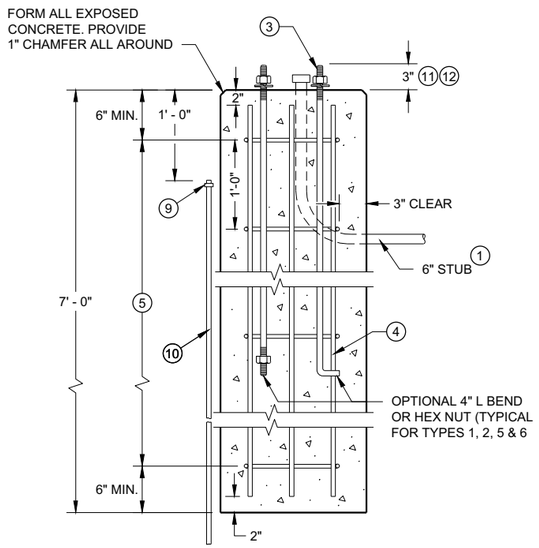
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

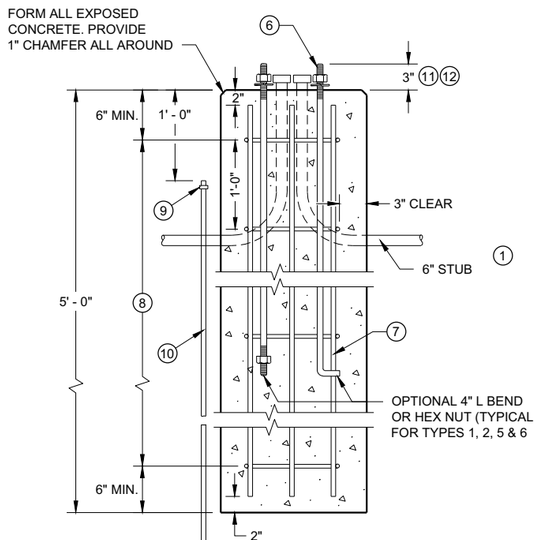
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 270
FHWA

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 531.2.2 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.

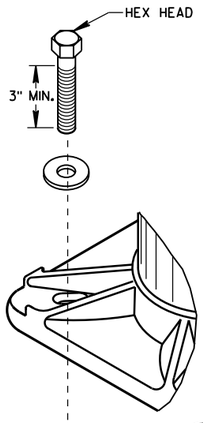
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

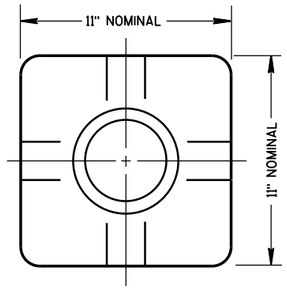
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

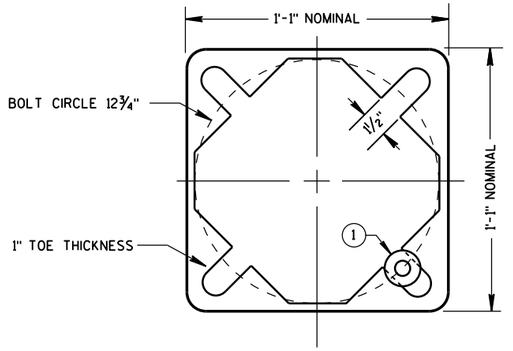
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

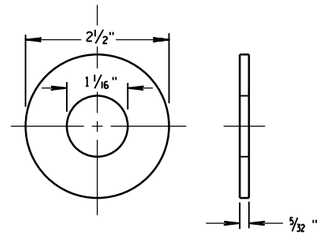




TOP VIEW
(PEDESTAL BASE)

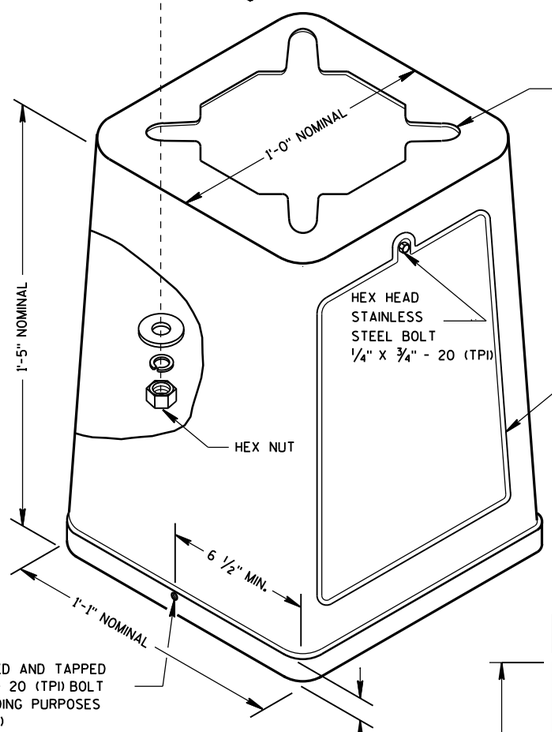


BOTTOM VIEW
(PEDESTAL BASE)

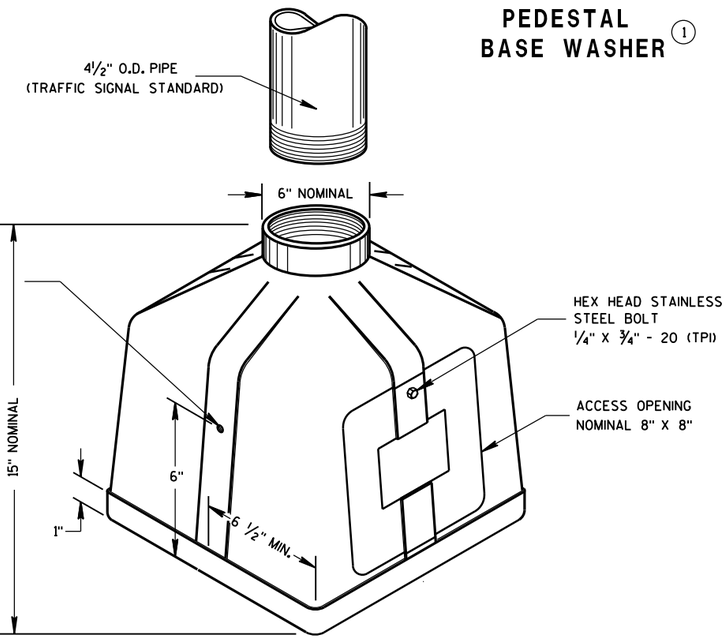


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

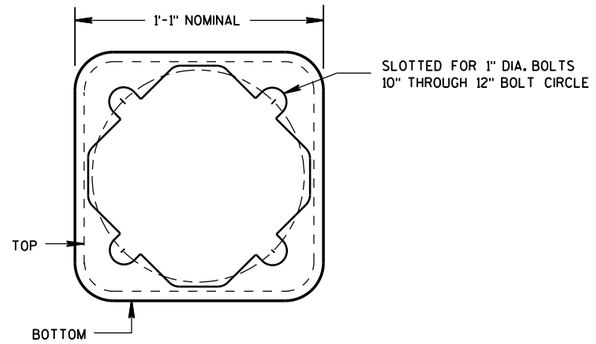


ISOMETRIC VIEW

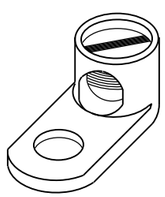


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

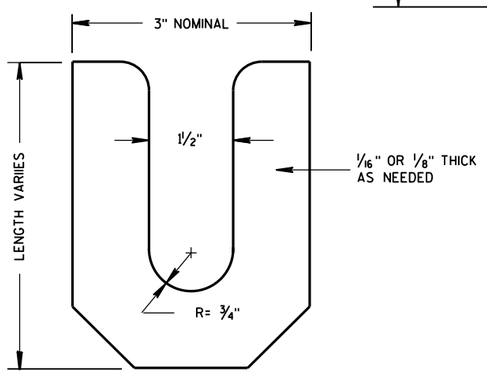


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

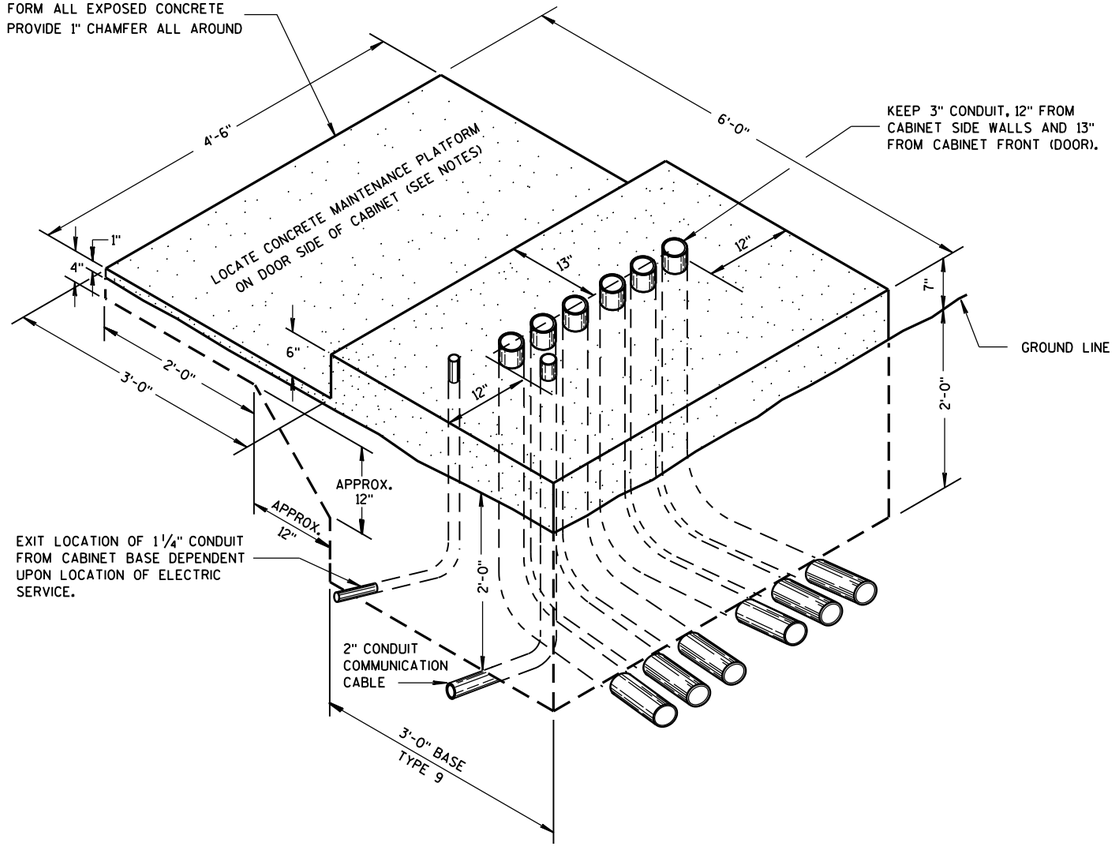
TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

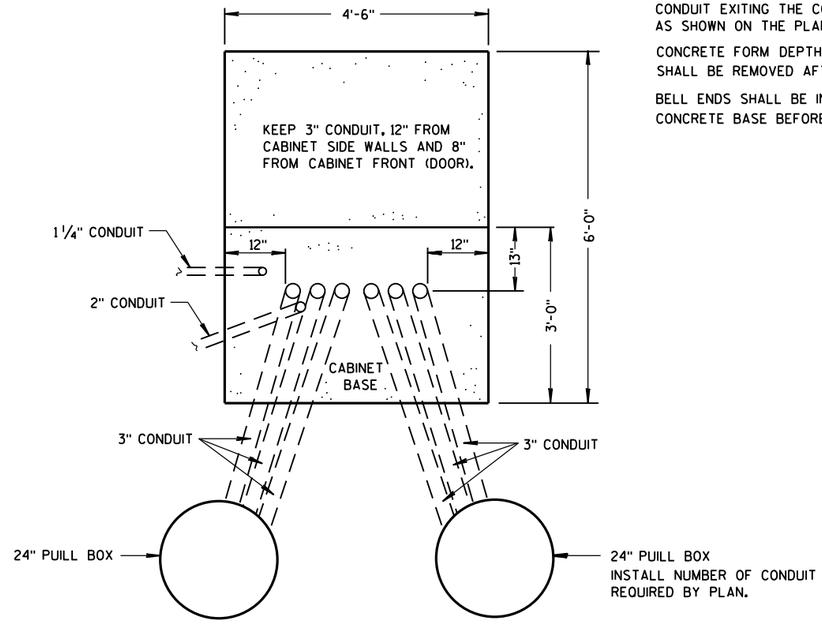
S.D.D. 9 C 3-4



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.

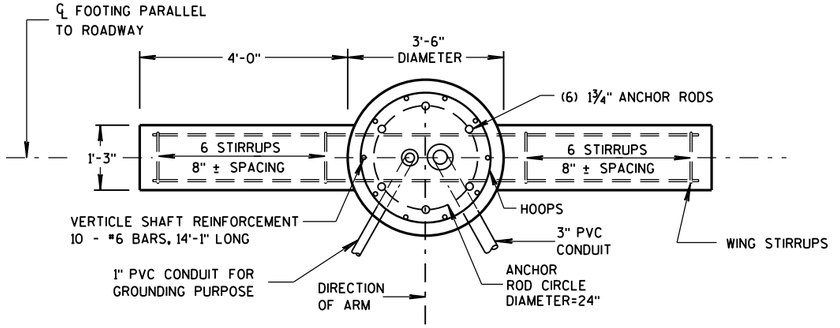
BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

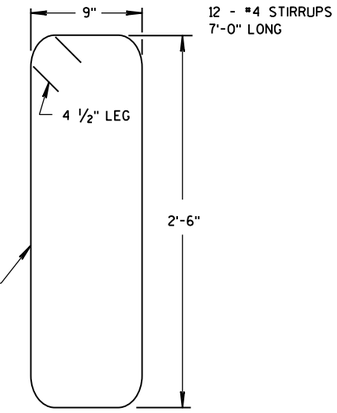
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

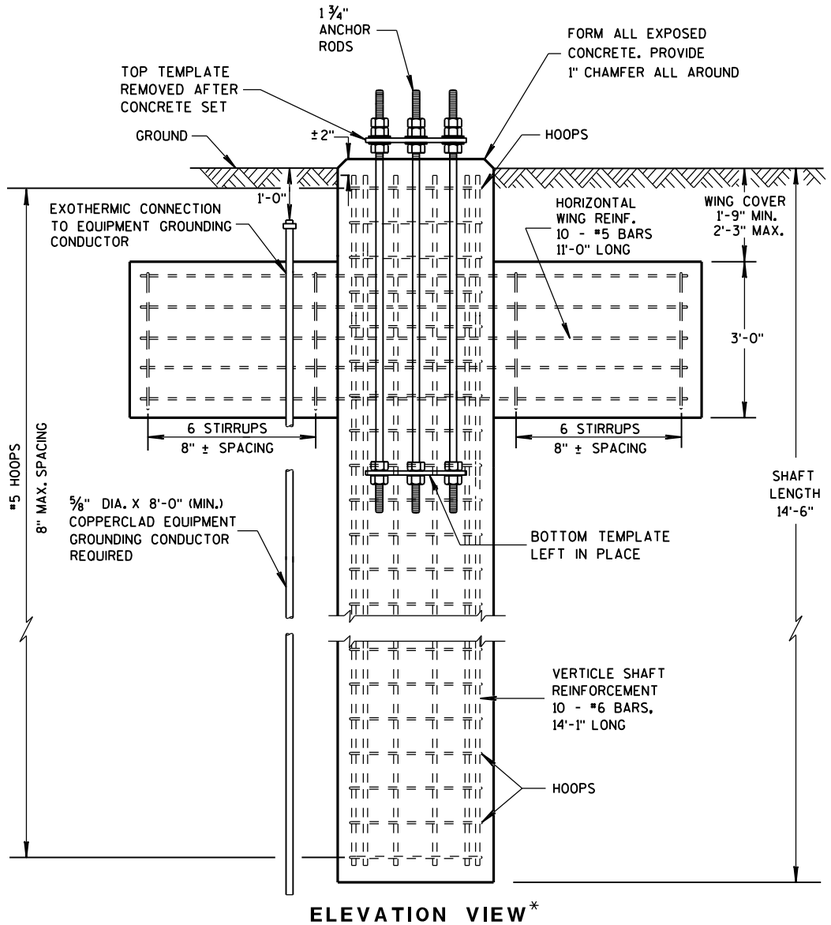
272



PLAN VIEW

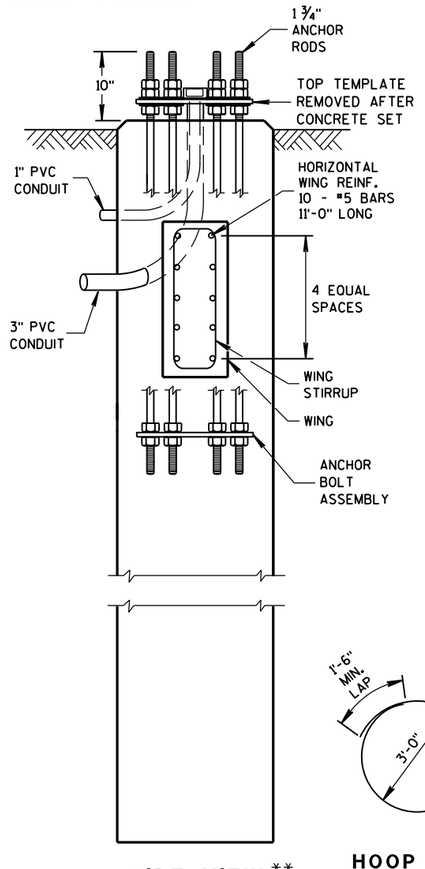


WING STIRRUP



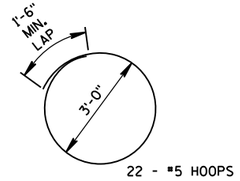
ELEVATION VIEW*

* CONDUITS ARE NOT SHOWN ON THIS VIEW FOR CLARITY



SIDE VIEW**

** HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY



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, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS	fy=55,000 p.s.i.
TEMPLATES, ASTM A709 GRADE 36	fy=36,000 p.s.i.

(FOR TYPE 12 & 13 & OVER HEIGHT (OH) POLES)

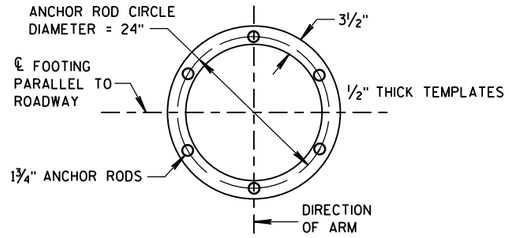
CONCRETE = 6.3 C.Y.
H.S. REINFORCEMENT = 635 LBS.

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.

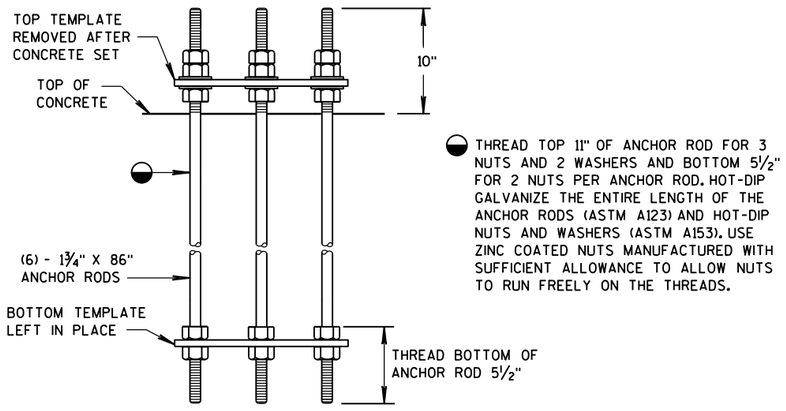
CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 9 C 12-9a

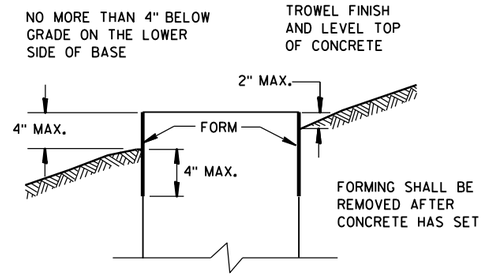


TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 13 ANCHOR ASSEMBLY



FORMING DETAIL

CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

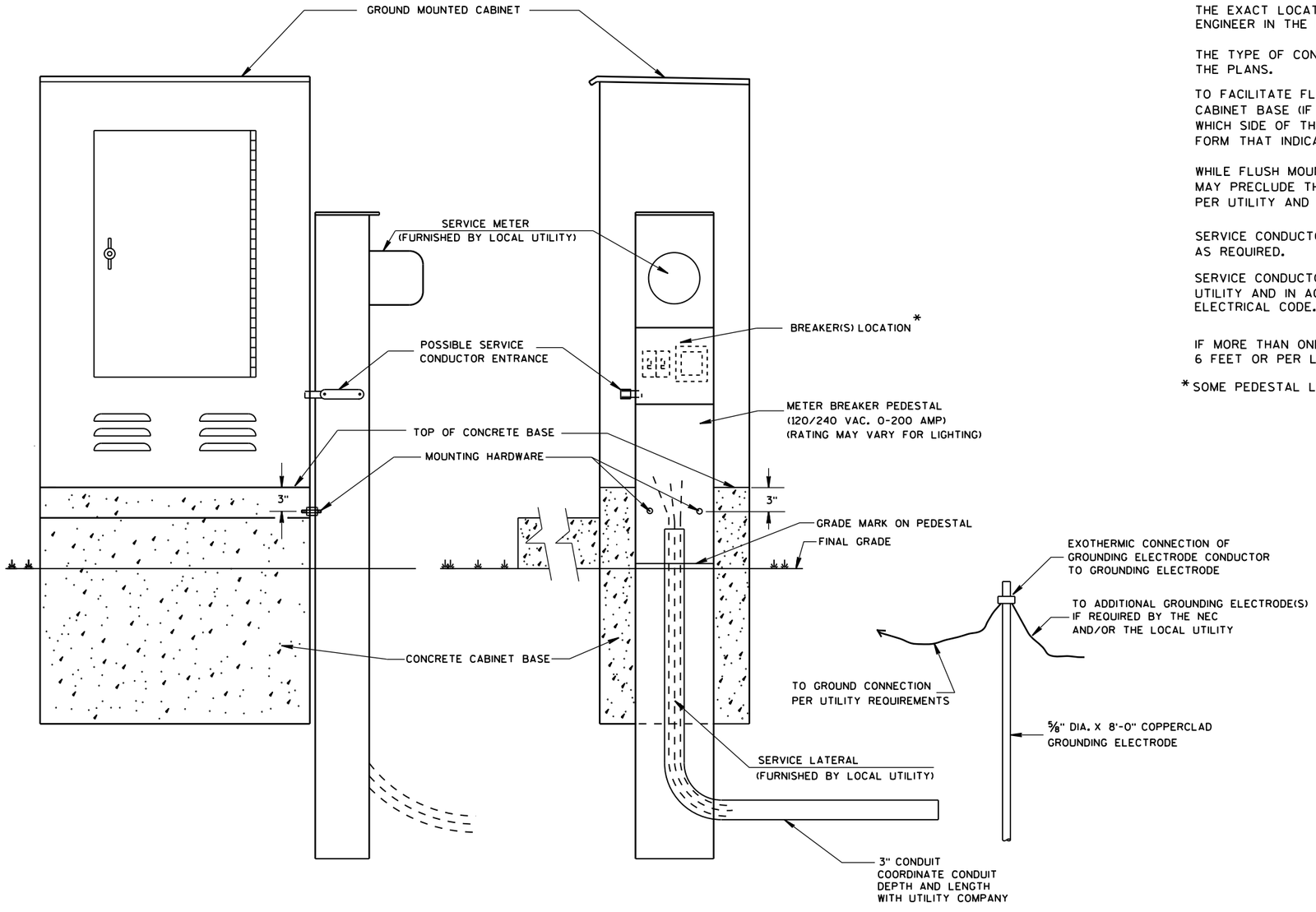
APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 12-9b

6

S.D.D. 9 C 12-9b



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

*SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

6

S.D.D. 9 D 1-5

6

S.D.D. 9 D 1-5

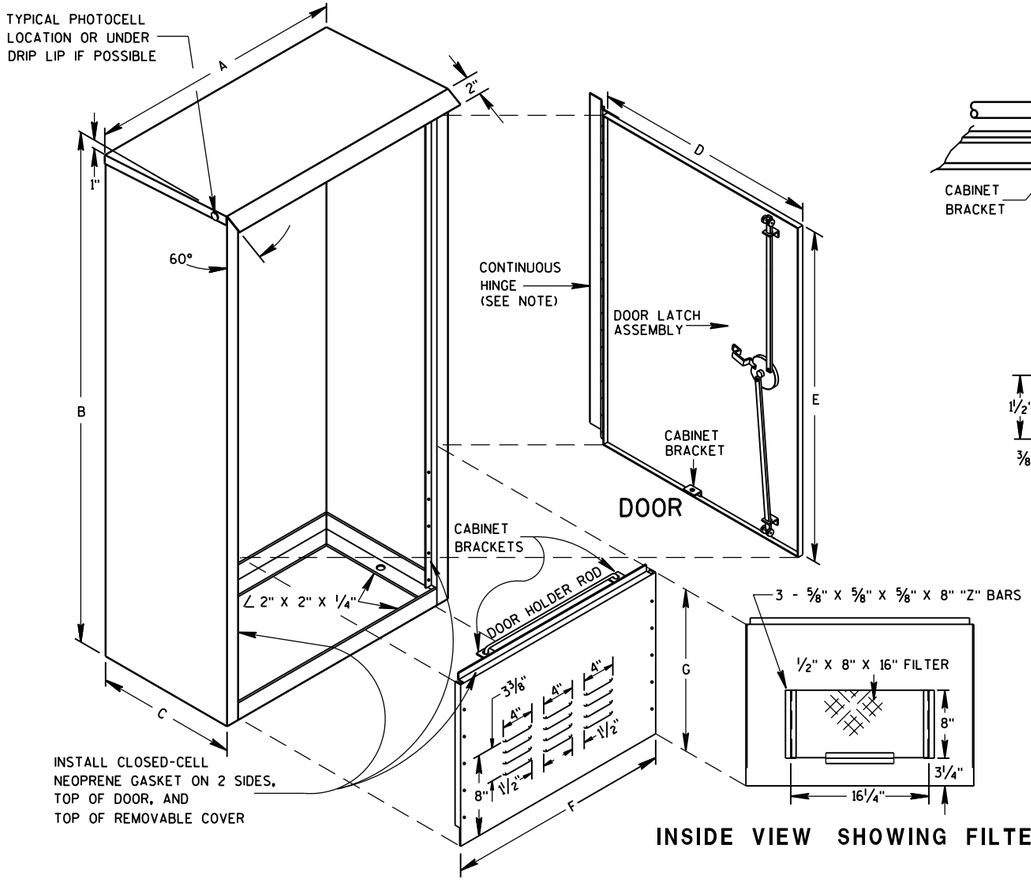
CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

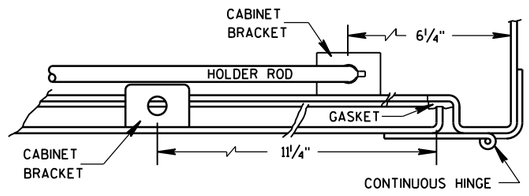
/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

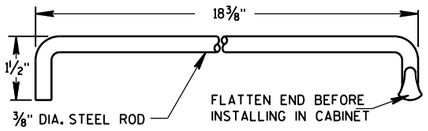


INSIDE VIEW SHOWING FILTER

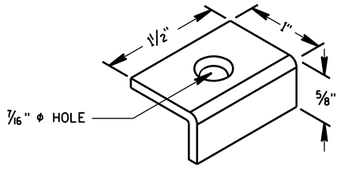
REMOVABLE COVER



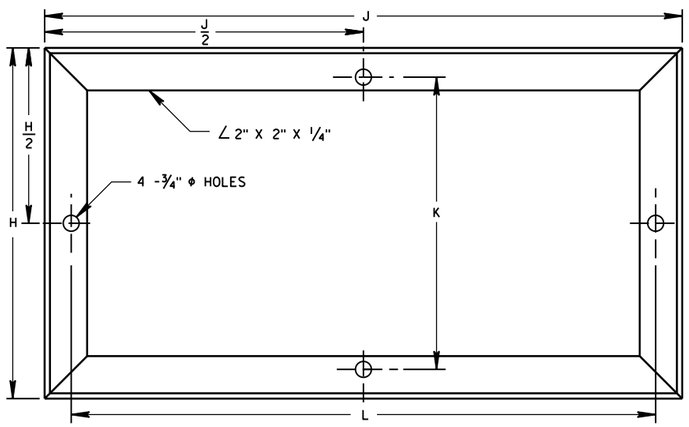
HINGE & DOOR HOLDER



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.

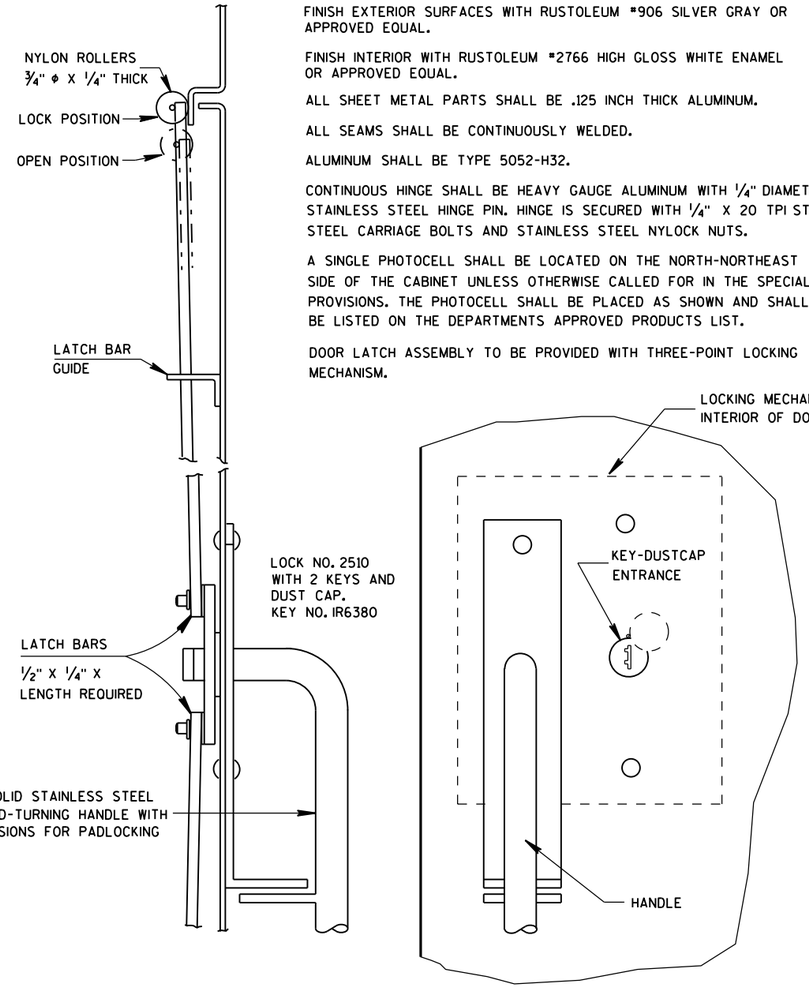
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

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.

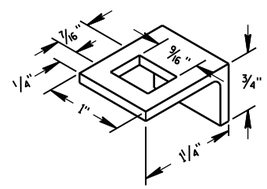
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



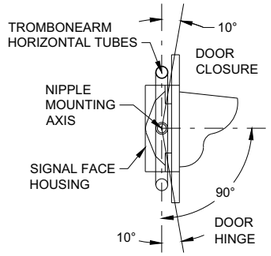
LATCH BAR GUIDE

SIGNAL CONTROL CABINET

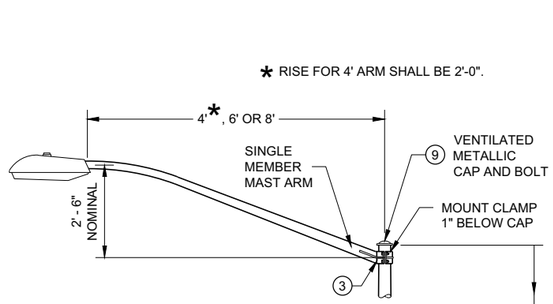
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

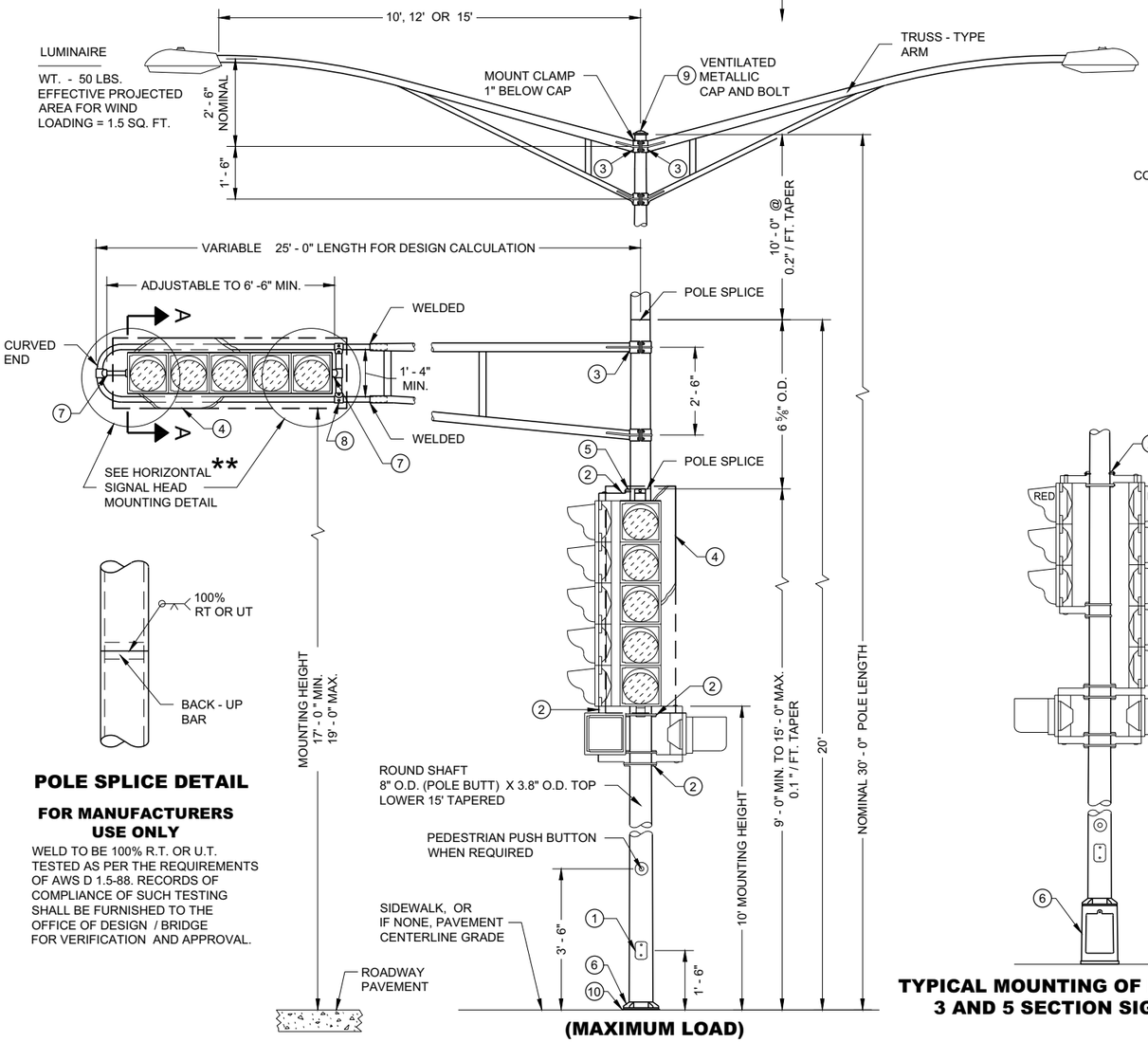
APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

6
S.D.D. 9 D 2-3



SECTION A-A



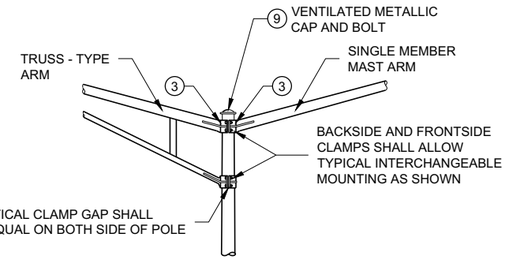


POLE SPLICE DETAIL

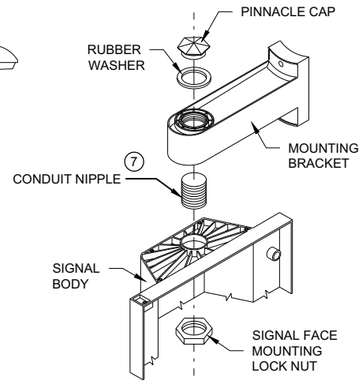
FOR MANUFACTURERS USE ONLY

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN / BRIDGE FOR VERIFICATION AND APPROVAL.

(MAXIMUM LOAD)

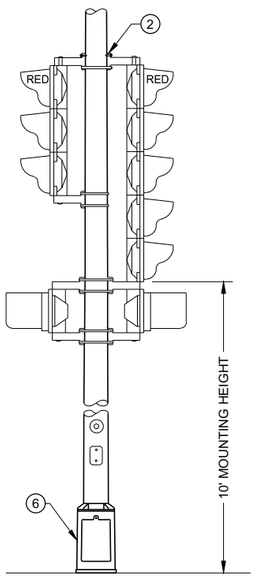


INTERCHANGEABLE MOUNTING DETAIL

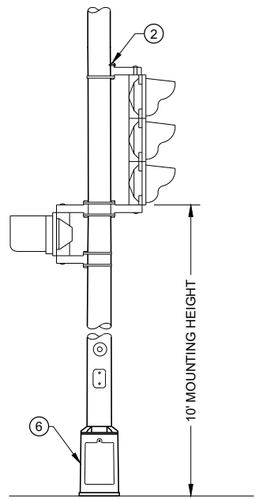


SIGNAL FACE MOUNTING DETAIL

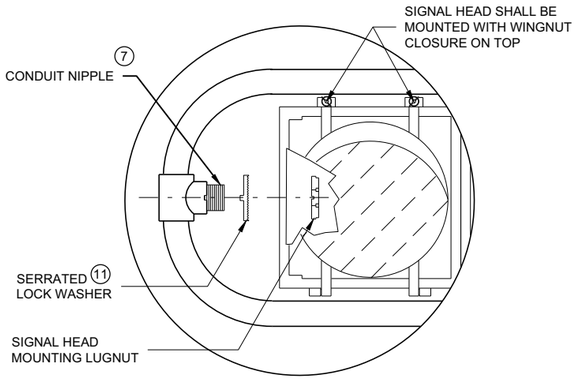
(BANDED)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



HORIZONTAL SIGNAL HEAD ** MOUNTING DETAIL

** SIGNAL HEAD ATTACHMENT ALSO APPLIES TO MOUNTING AT CROSS BAR

TYPE 3 POLE MOUNTING CONFIGURATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 3 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 3/8 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, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

(3) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 3/8" 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 ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED. UNDER MAX LOADING, TYPE 3 POLE SHALL BE MOUNTED DIRECTLY TO ITS CONCRETE BASE.

(7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

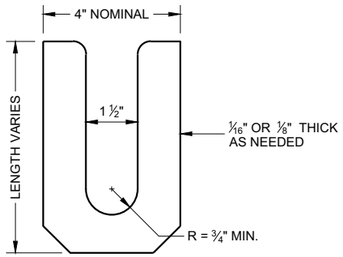
(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS TYPE 3 (HEAVY DUTY)

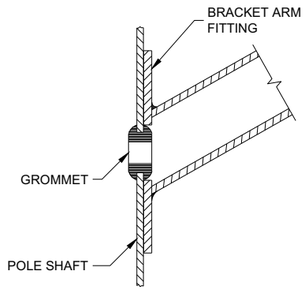
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

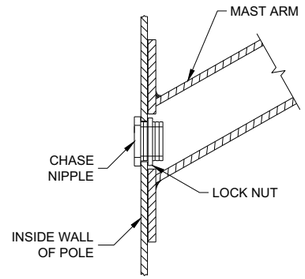
SDD 09E01 - 15b



LEVELING SHIM (1)
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.

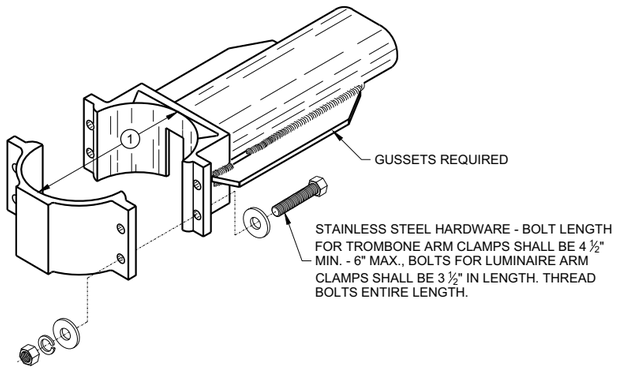
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

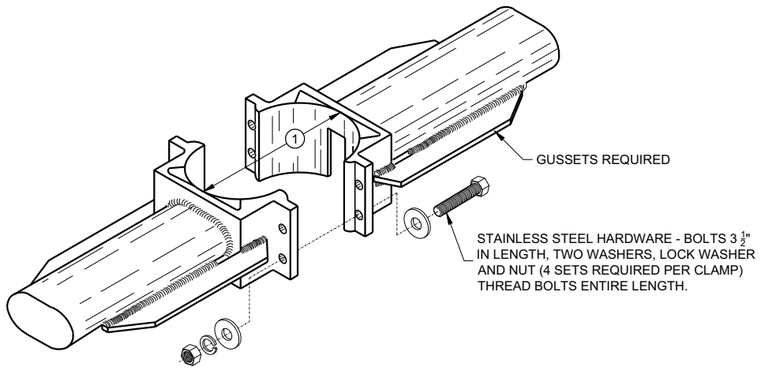
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) 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.

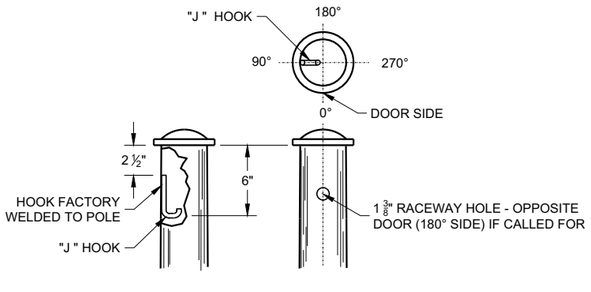
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



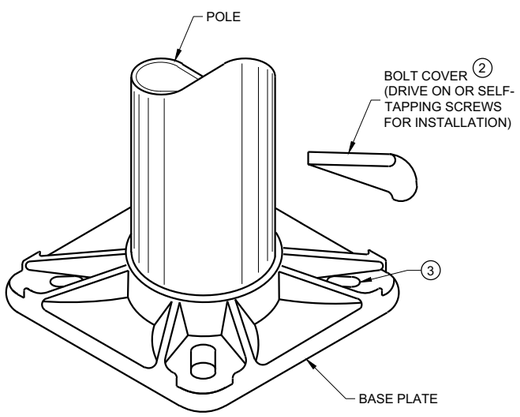
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



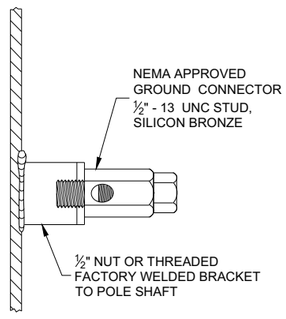
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

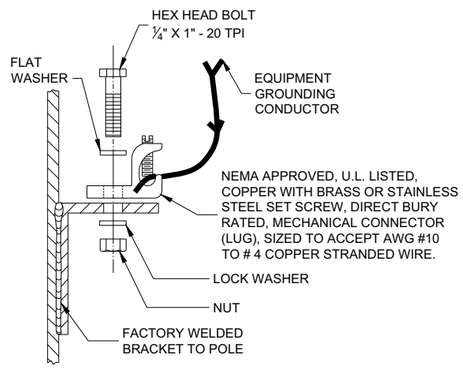


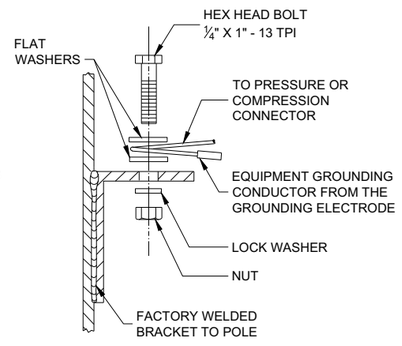
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

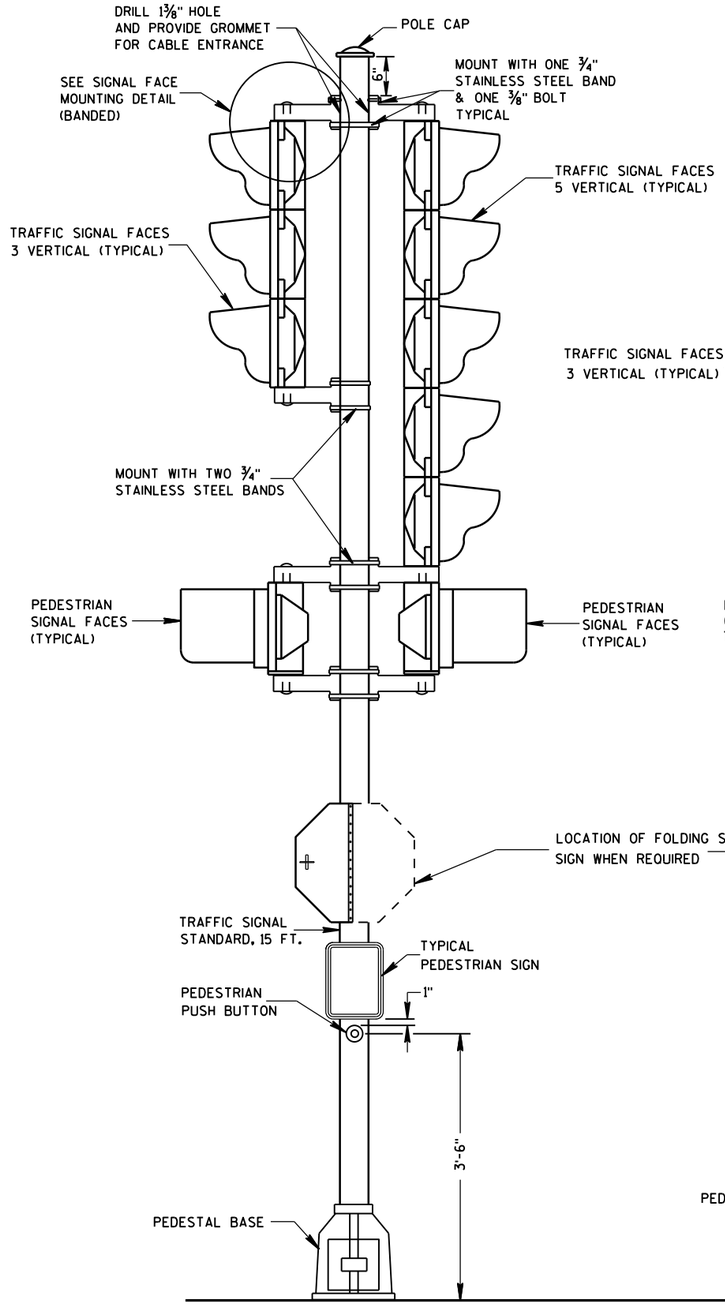
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

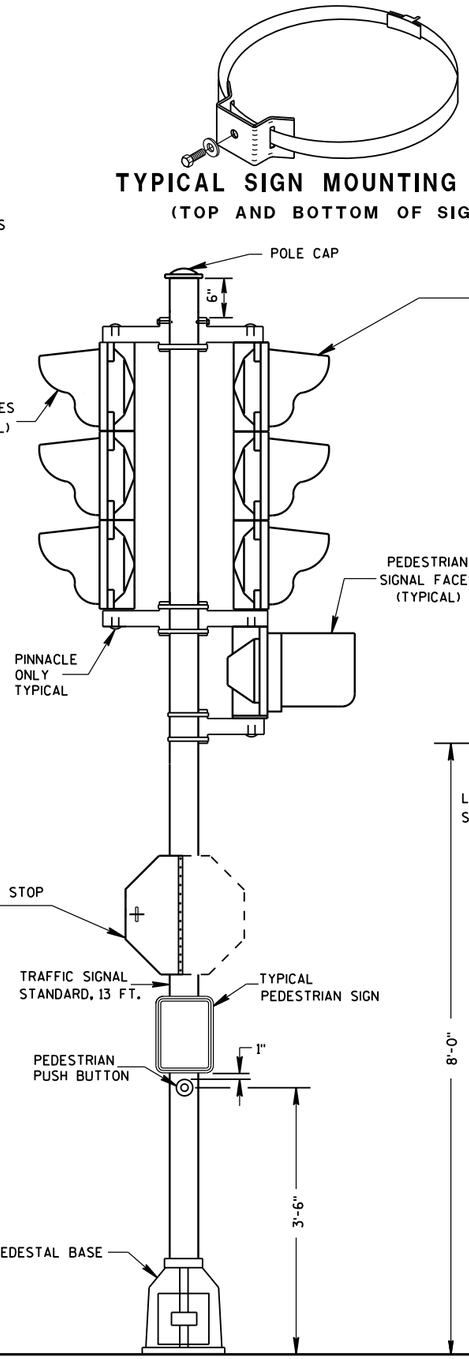
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 278

FHWA

6
SDD09A01 - 15g

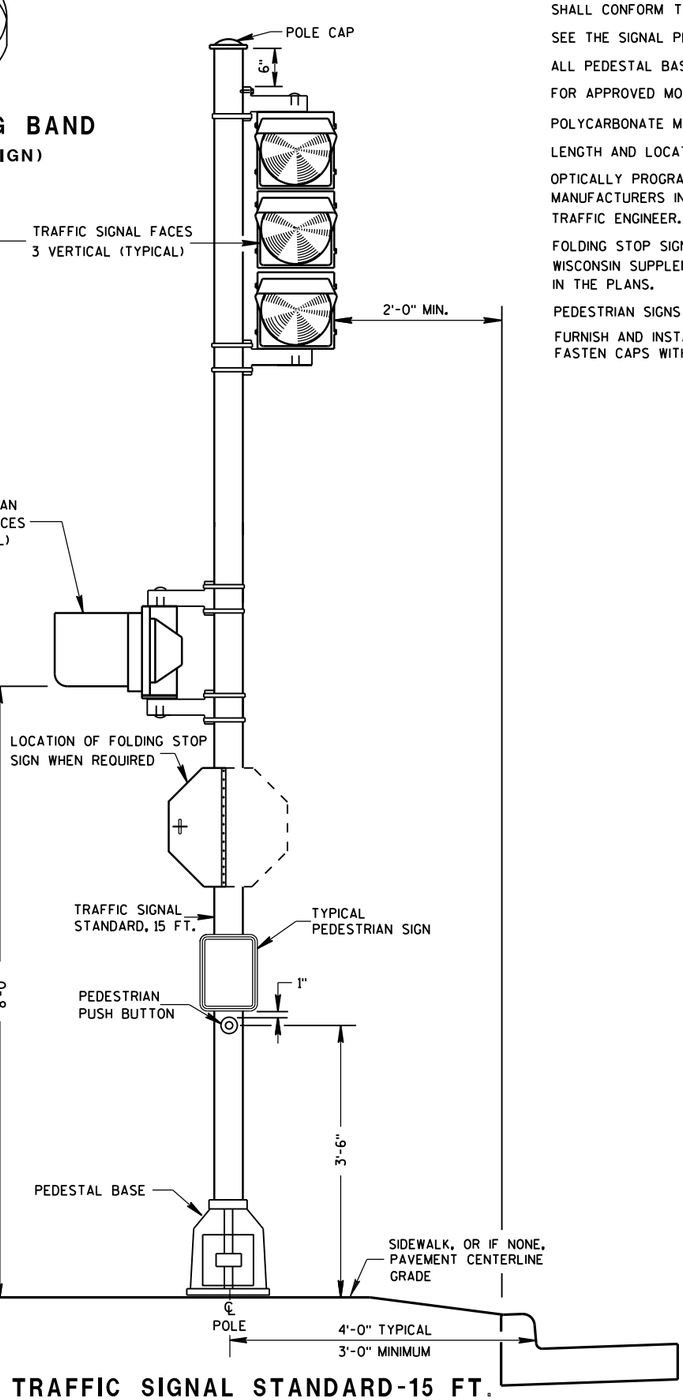


TRAFFIC SIGNAL STANDARD-15 FT.



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.

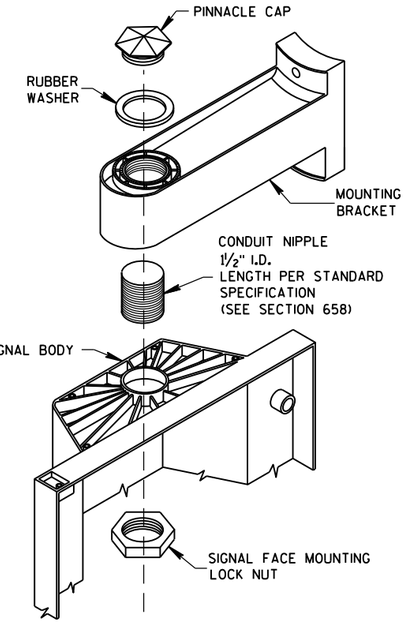
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

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.

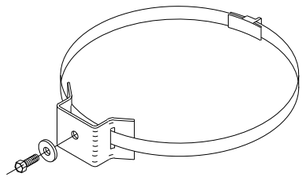


SIGNAL FACE MOUNTING DETAIL
(BANDED)

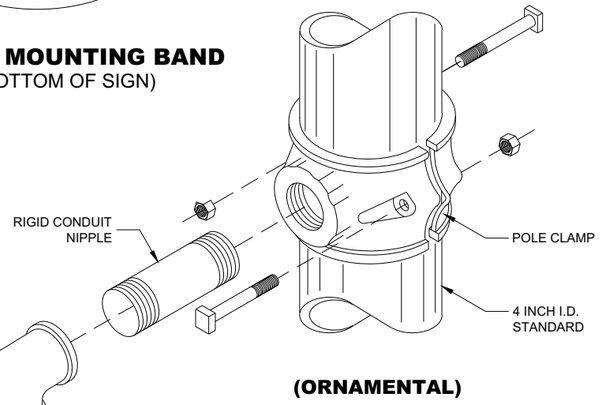
TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 2/28/2013 DATE — /S/ Ahmet Demirbilek STATE ELECTRICAL — FHWA

6

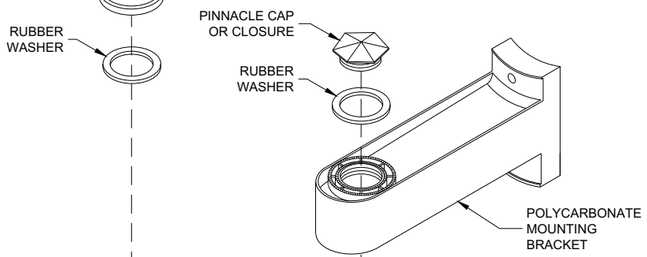
S.D.D. 9 E 6-5



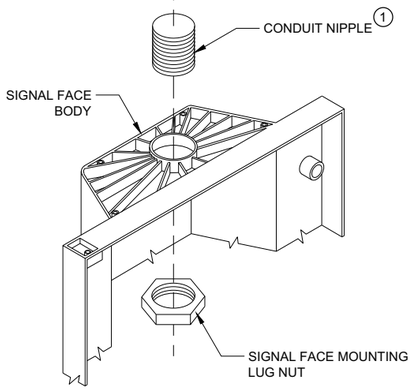
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



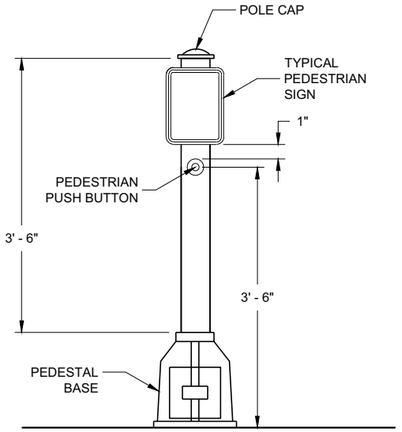
(ORNAMENTAL)



(BANDED)



SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING

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, UNLESS APPROVED BY THE ENGINEER IN THE FIELD.

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.

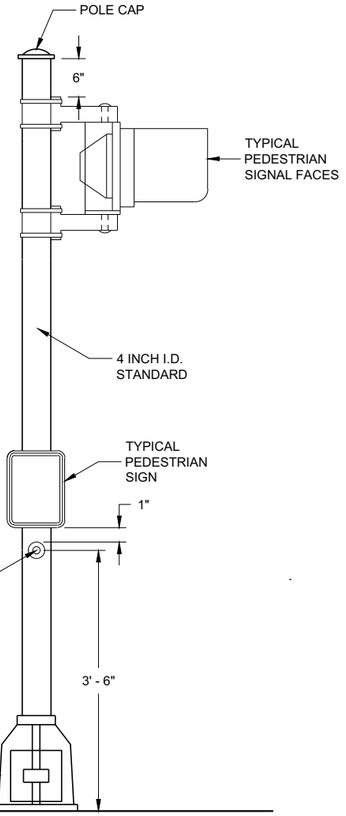
LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE REGION TRAFFIC ENGINEER).

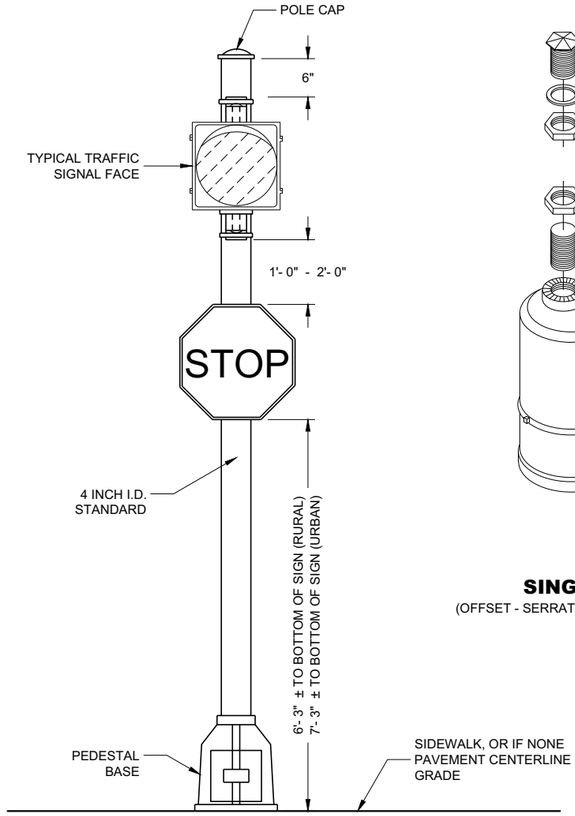
PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

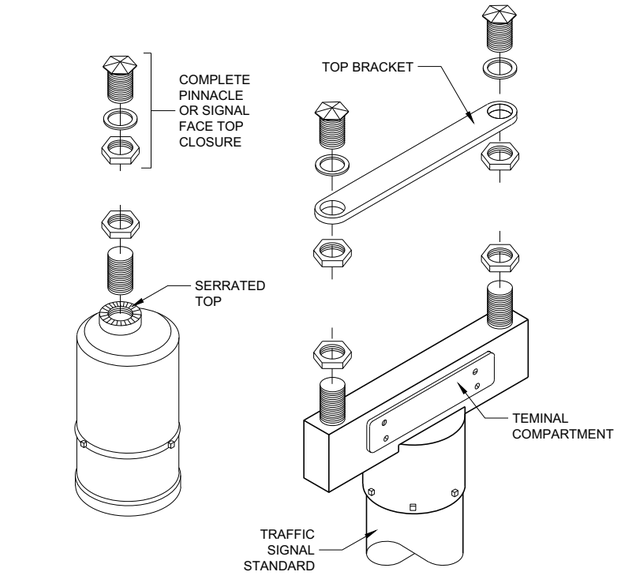
(1) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACESAND BRACKET ENDS.



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

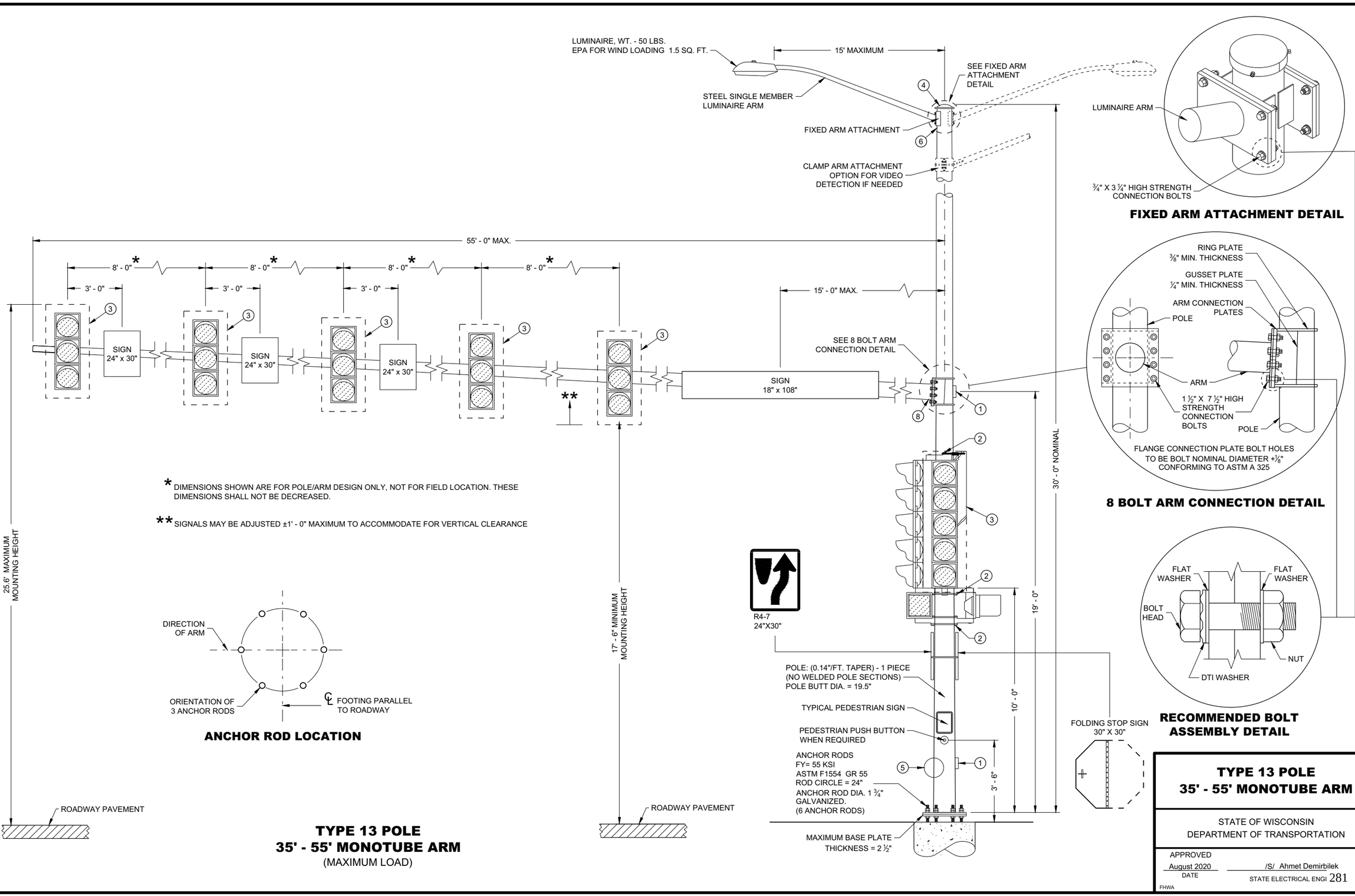
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 280

FHWA

6

SDD 09E07 - 06



FIXED ARM ATTACHMENT DETAIL

8 BOLT ARM CONNECTION DETAIL

RECOMMENDED BOLT ASSEMBLY DETAIL

* 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 ACCOMMODATE FOR VERTICAL CLEARANCE

ANCHOR ROD LOCATION

TYPE 13 POLE
35' - 55' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 13 POLE
35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 281

FHWA

6
SDD 09E08 - 09j

GENERAL NOTES

DETAILS OF CONSTRUCTION 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 9 SPECIAL AND 10 SPECIAL ARE FOR ARM LENGTHS 35 FOOT, 40 FOOT, AND 45 FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35 FOOT TO 55 FOOT.

MONOTUBE POLES AND ARMS SHALL BE GALVANIZED STEEL.

RING STIFFENED BUILT UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3% ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATION 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 "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING INTERIM REVISIONS)" AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR THE LIGHTING STRUCTURES 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 TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 SPECIAL AND TYPE 10 SPECIAL STRUCTURES. IN LIEU OF DESIGNING FOR GALLOPING, A VIBRATION DAMPER MITIGATION DEVICE IS REQUIRED TO BE SUPPLIED AND INSTALLED AT THE END OF THE MAST ARM.

CATEGORY II FATIGUE FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE12 AND TYPE 13 STRUCTURES.

115 MPH (700 YEAR MRI BASIC WIND SPEED).

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" STAINLESS STEEL 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 A S DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEAD 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 HAND HOLE 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 SPECIFICATION SECTION 658).

(3) SECURELY MOUNT BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND 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 HAND HOLD, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

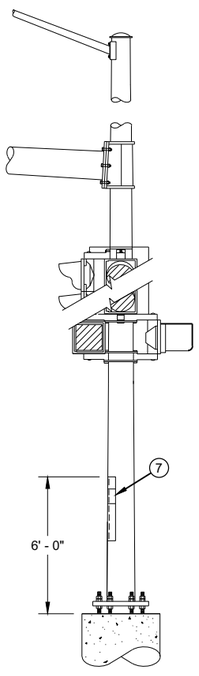
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

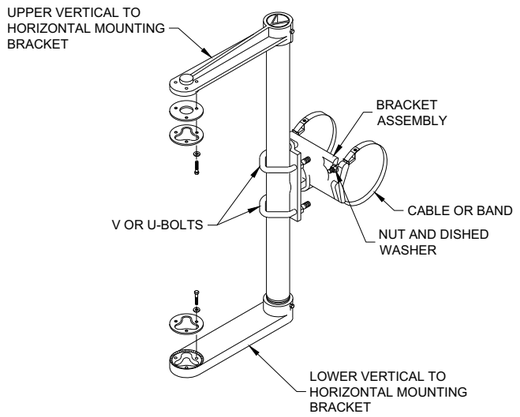
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

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.

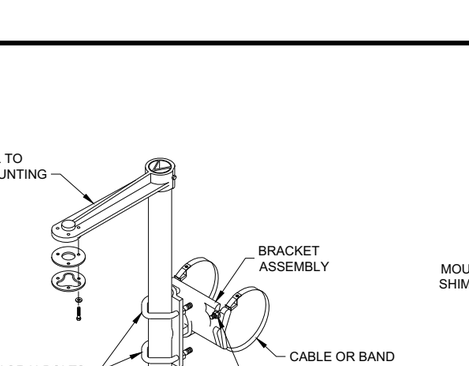


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



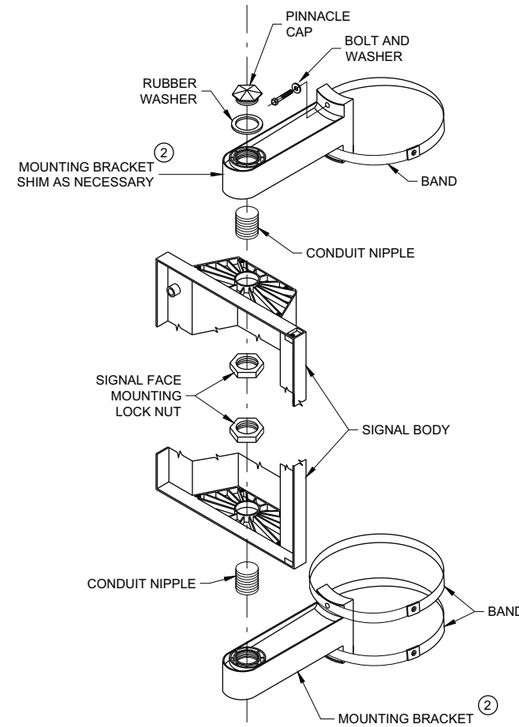
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANFACTURER'S RECOMMENDATION)

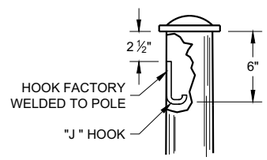


TYPICAL GROUNDING (5) CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



TYPICAL "J" HOOK (6) WIRE SUPPORT

GENERAL NOTES AND HARDWARE FOR TYPES 9,10, 9/10 SPECIAL, 12 AND 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

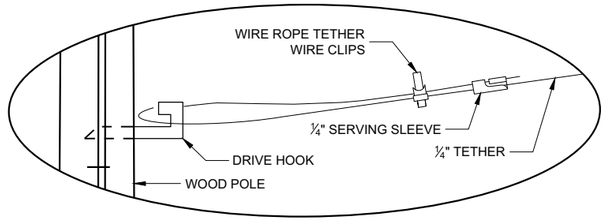
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA

6

SDD 09E08 - 09k

MINIMUM POLE LENGTHS	POLE BURIAL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

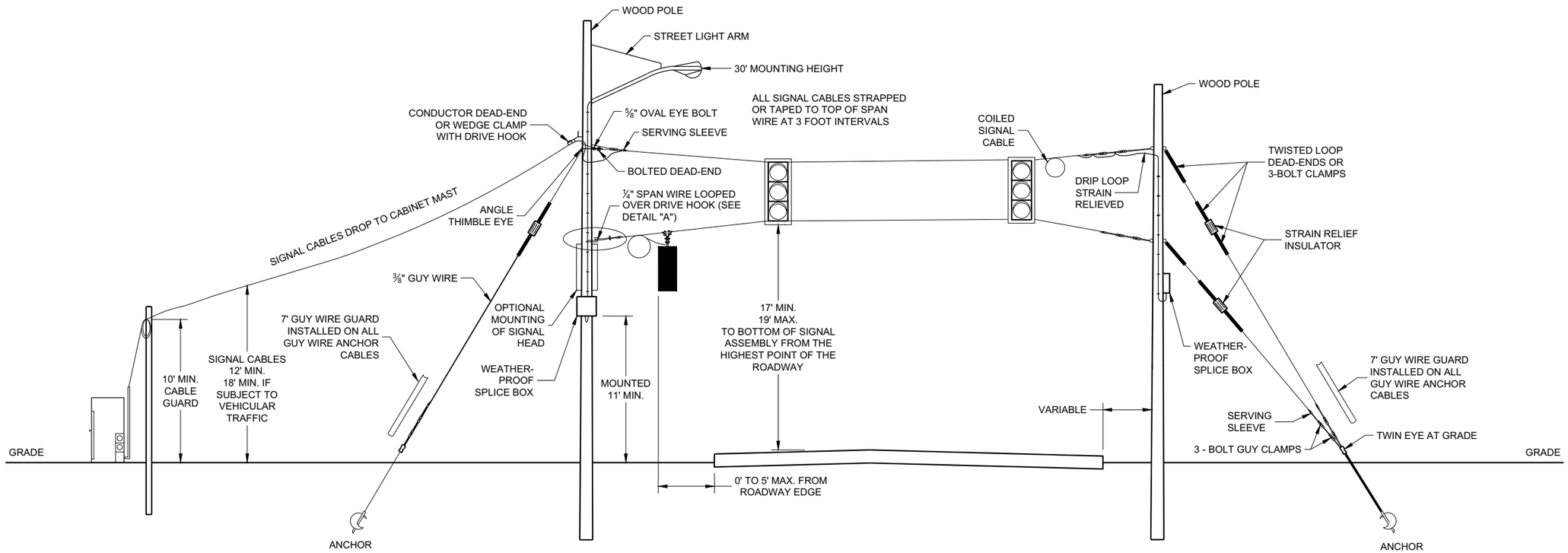


DETAIL "A"

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 ASSEMBLY 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

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — STATE ELECTRICAL ENGI
283

FHWA

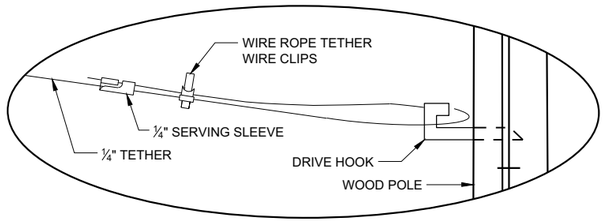
6

SDD09G01 - 04a

6

SDD09G01 - 04a

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'



DETAIL "A"

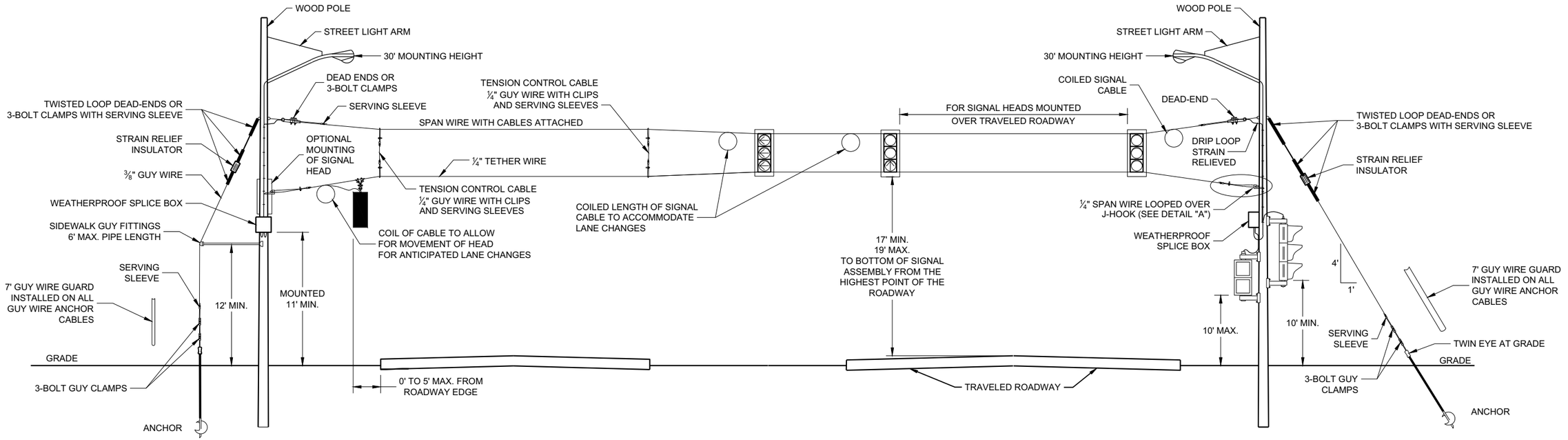
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

2. SIGNAL FACES:
   - A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   - B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   - C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   - D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   - E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

3. SPAN WIRE:
   - A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
   - B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   - C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE

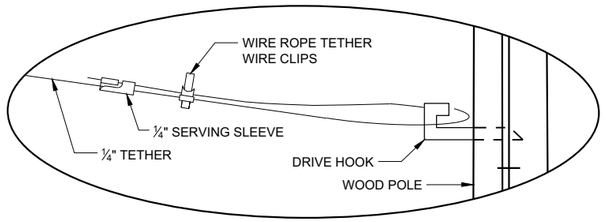
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

FHWA

SDD09G01 - 04b

SDD09G01 - 04b

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

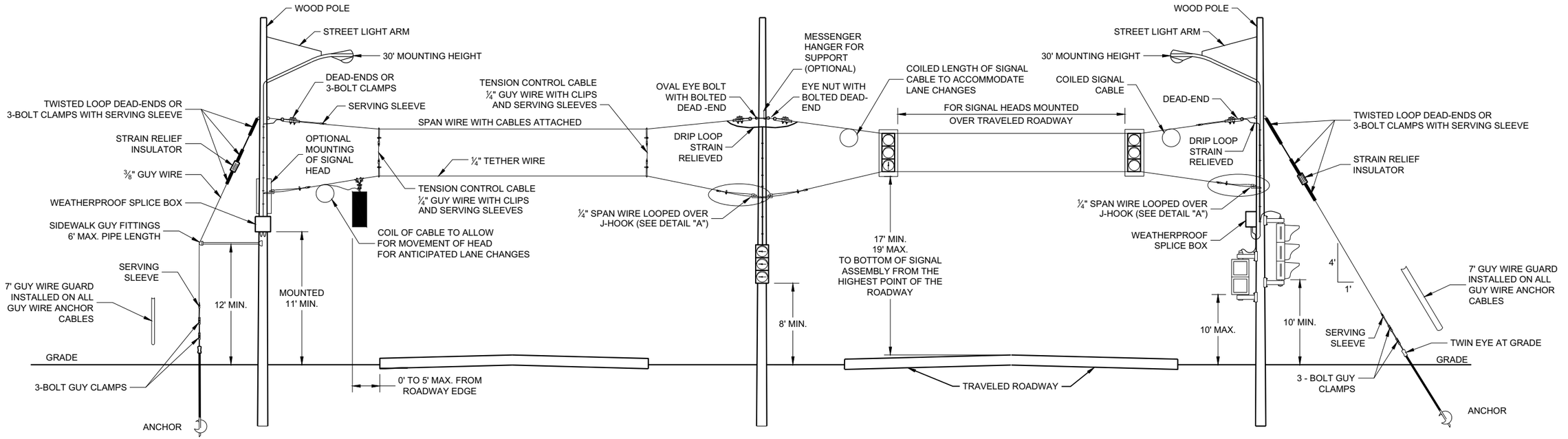


DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   - A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   - B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   - C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   - D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   - E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
3. SPAN WIRE:
   - A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
   - B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   - C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

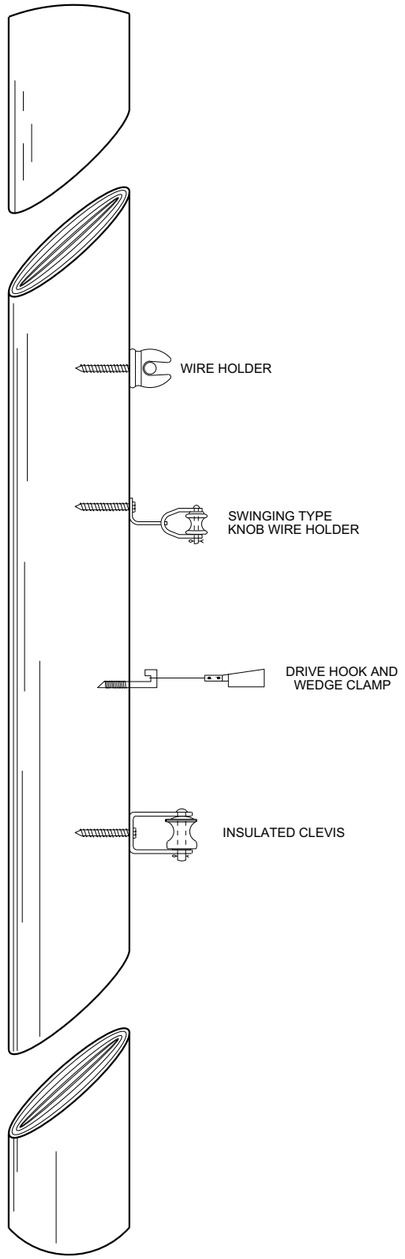
APPROVED
June 2015
DATE

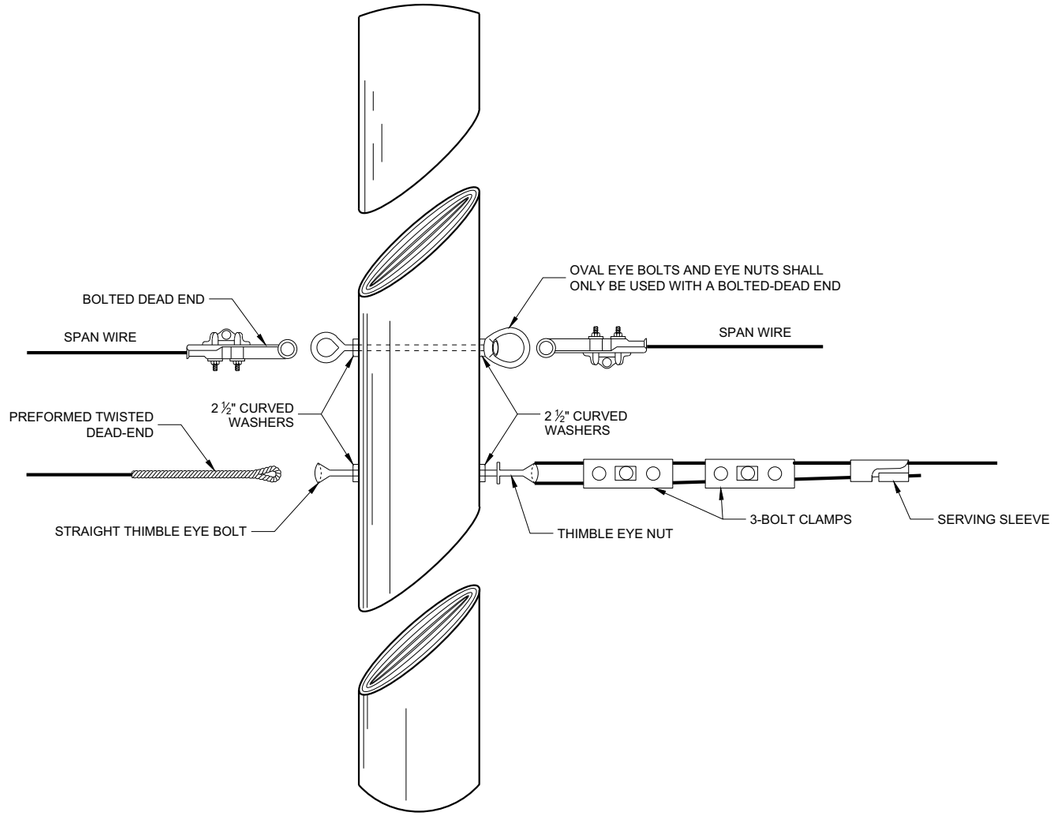
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

FHWA

SDD09G01 - 04c

SDD09G01 - 04c





6

SDD 09G01 - 4d

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

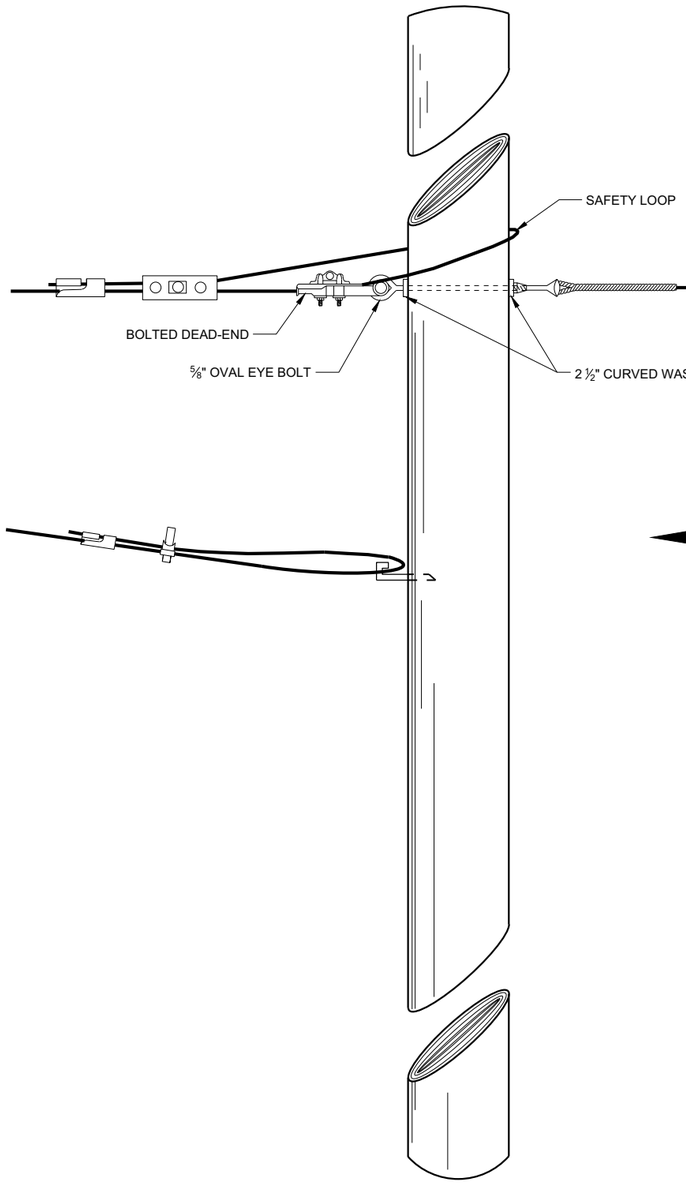
FHWA

6

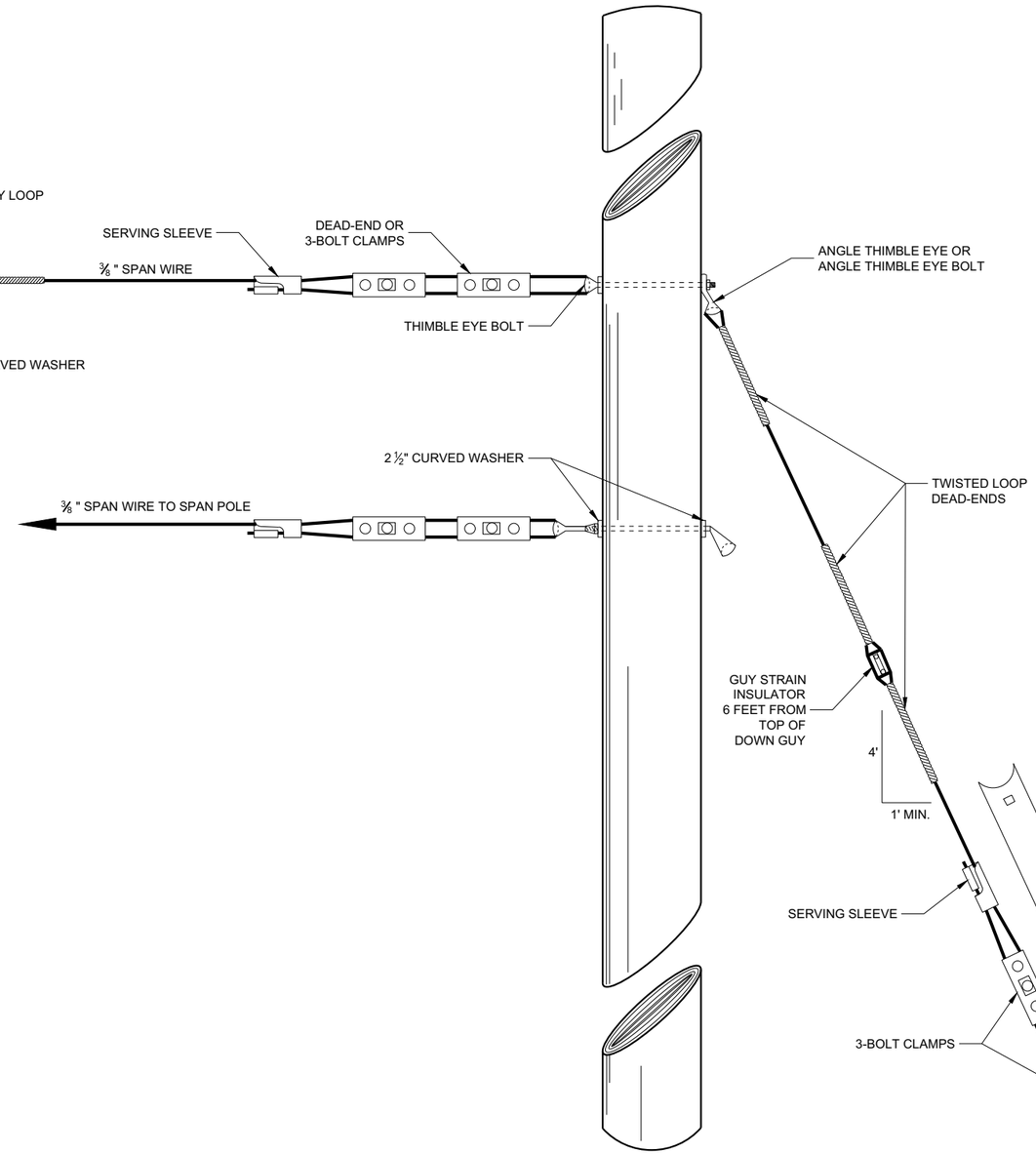
SDD 09G01 - 4d

GENERAL NOTES

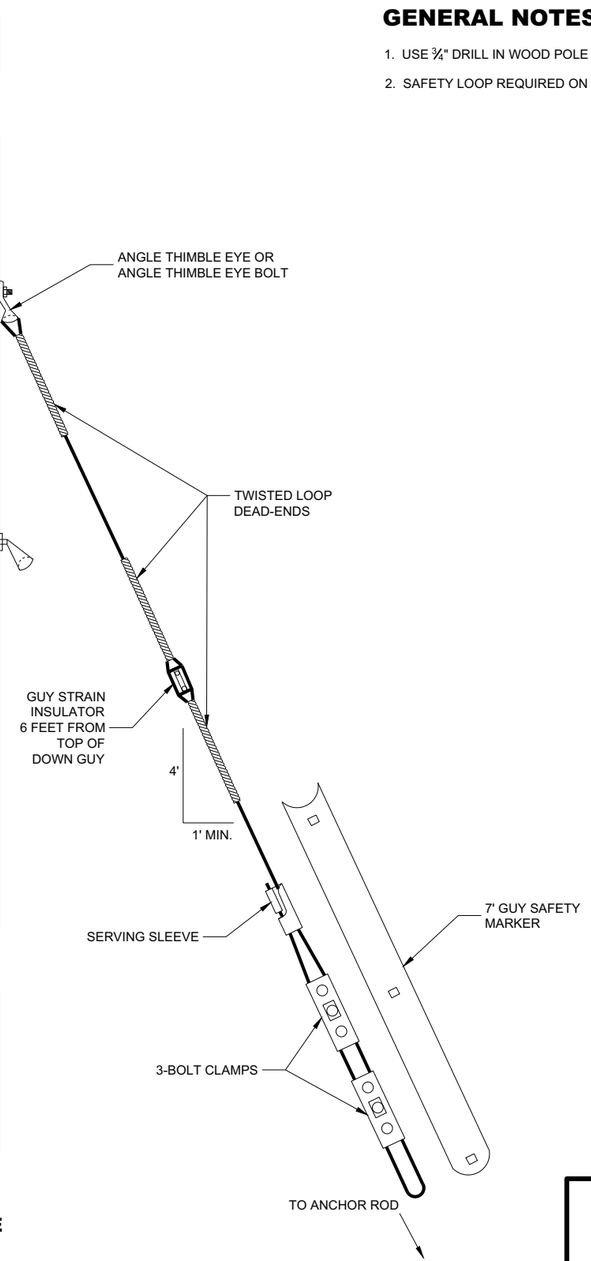
1. USE ¾" DRILL IN WOOD POLE TO PROVIDE FOR ⅝" BOLTS.
2. SAFETY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE



GUY POLE



TYPICAL DEAD-ENDINGS OR GUYING

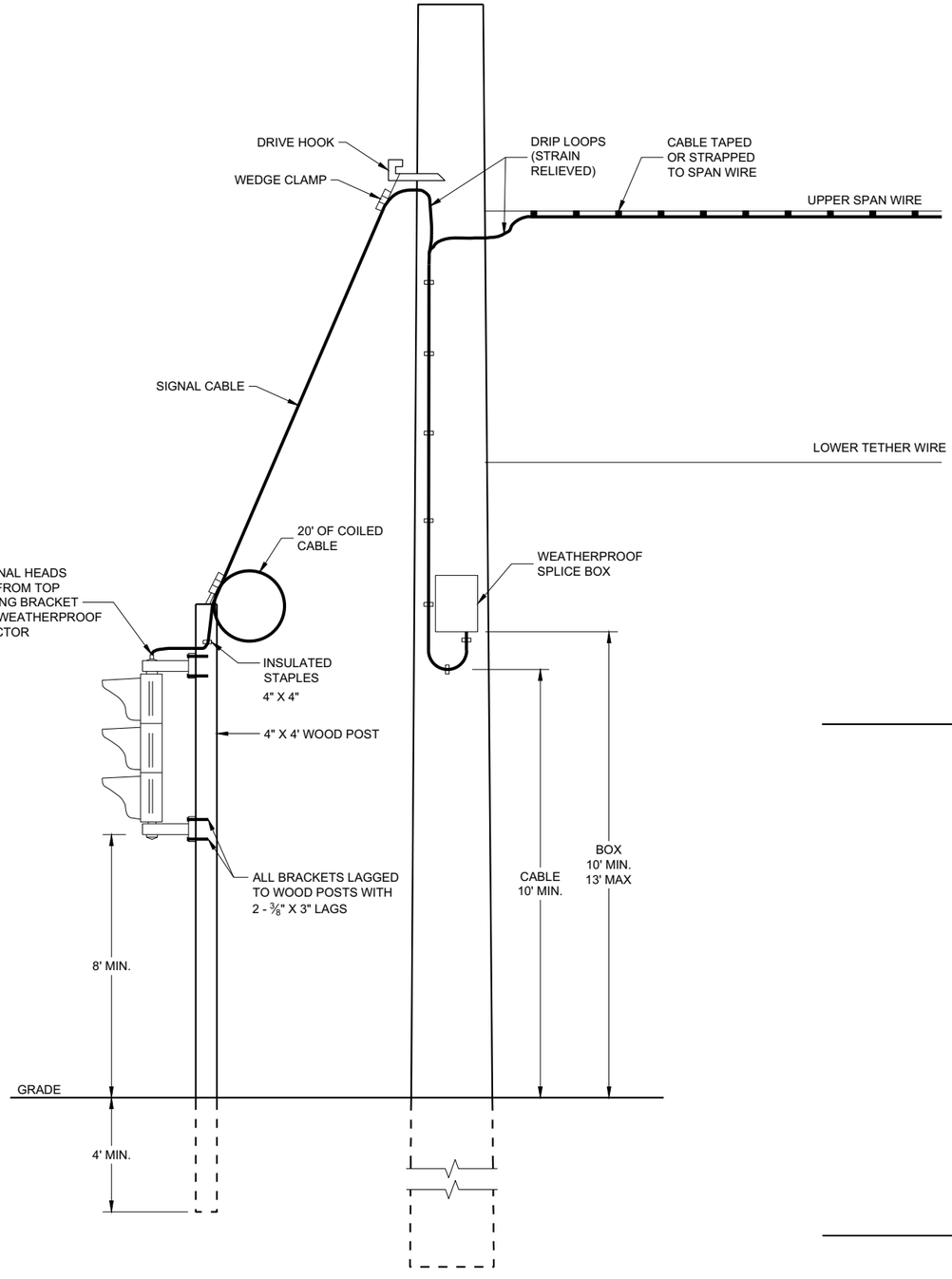
SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

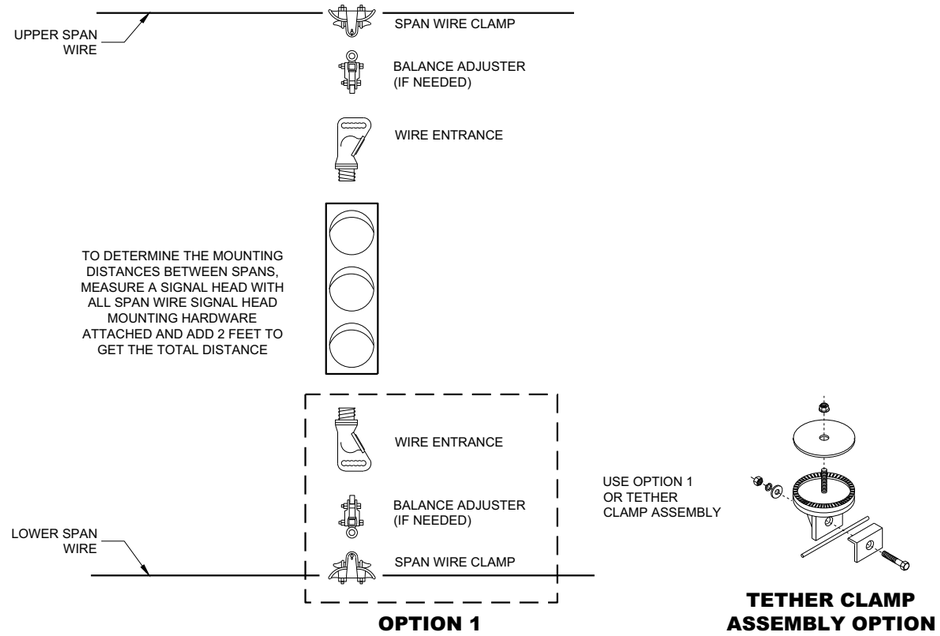
APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

SDD 09G01 - 4e



TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL

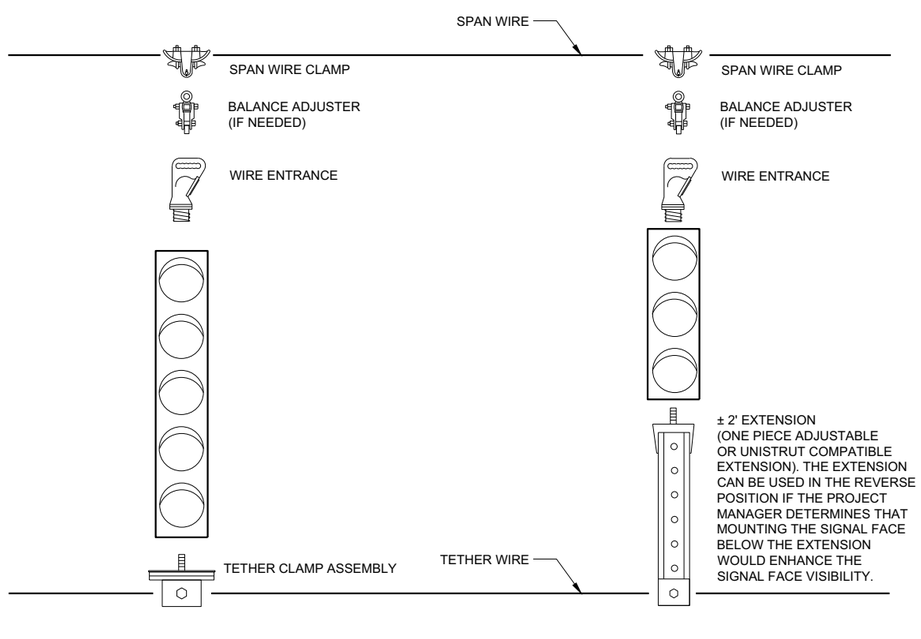


OPTION 1

USE OPTION 1 OR TETHER CLAMP ASSEMBLY

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

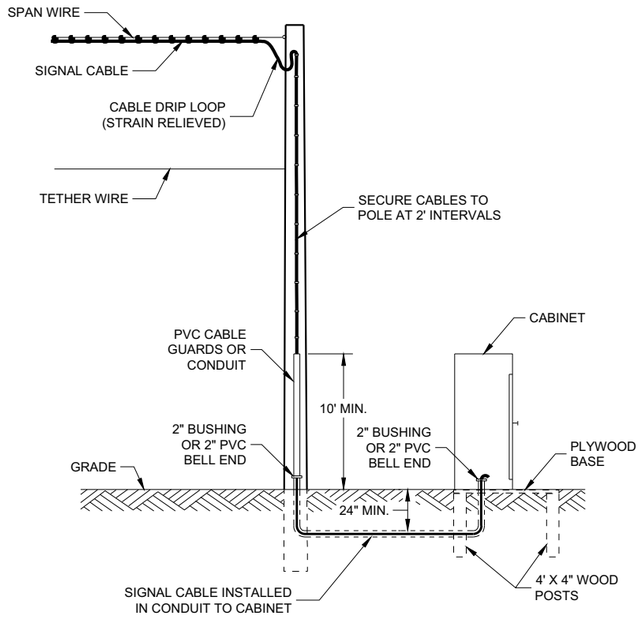
APPROVED
June 2015
DATE

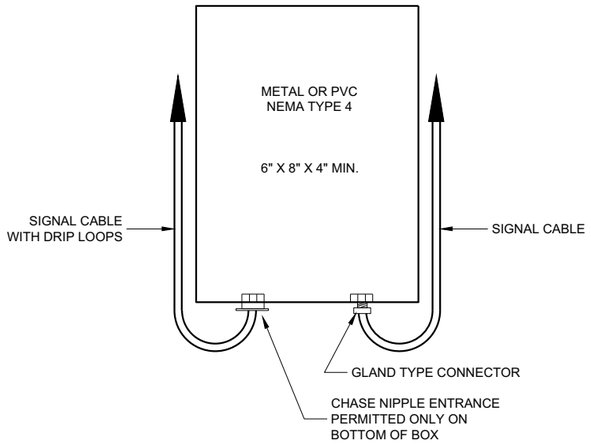
/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

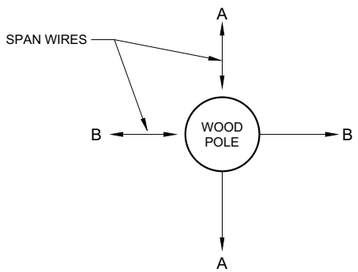
SDD 09G01 - 4f





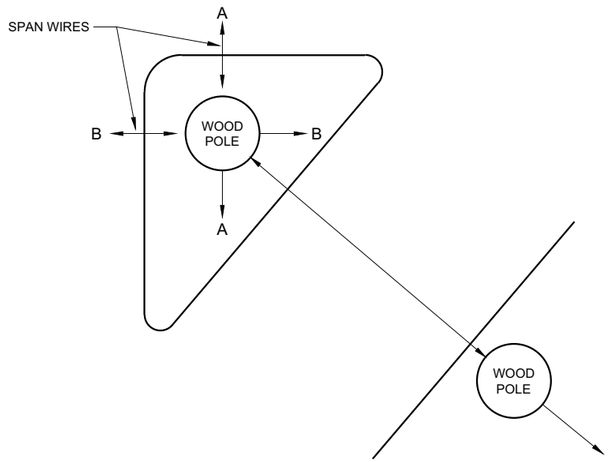
SPLICE BOX

TYPICAL SKID TYPE TEMPORARY

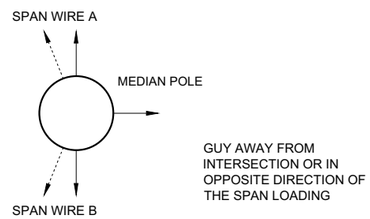


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

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

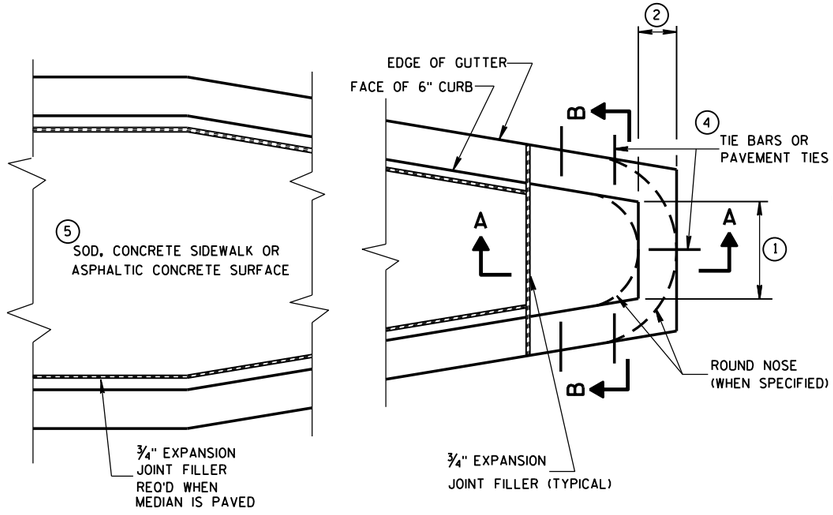
APPROVED
June 2015
DATE

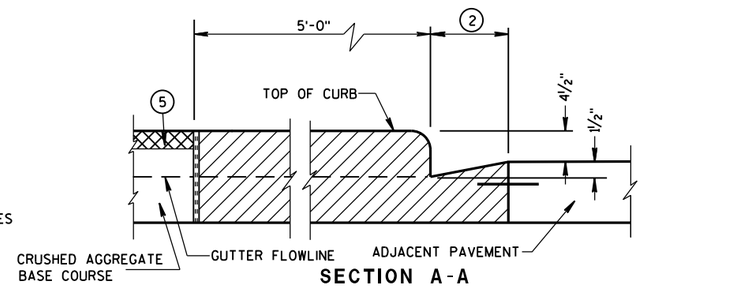
/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

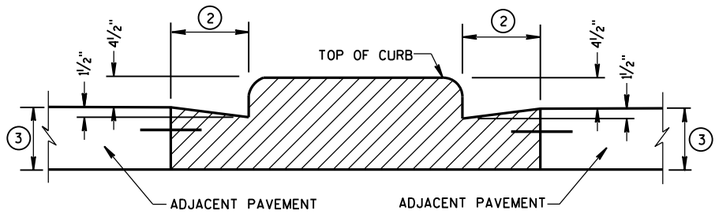
FHWA

SDD 09G01 - 4g

6







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.

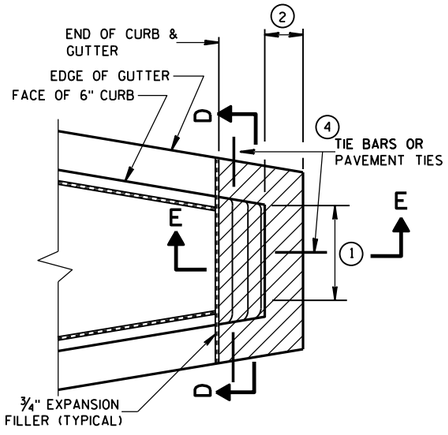
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

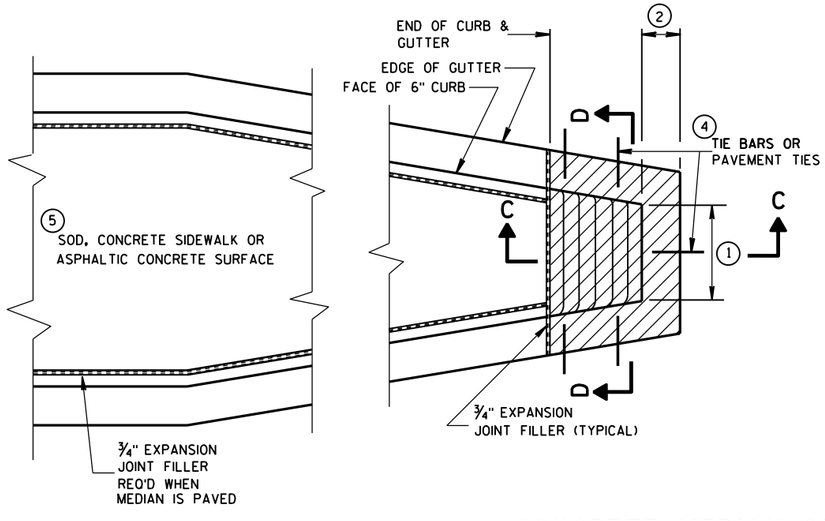
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

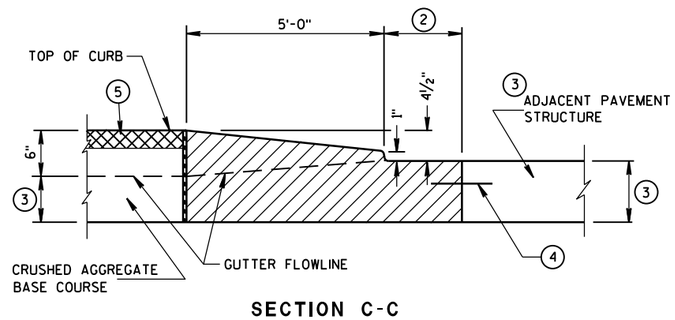
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

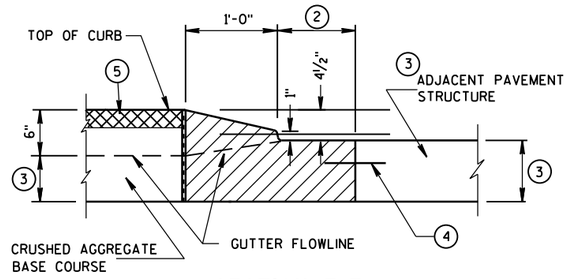
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



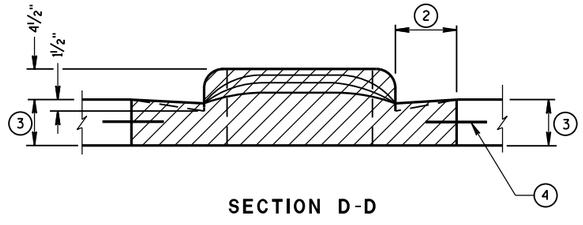






CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

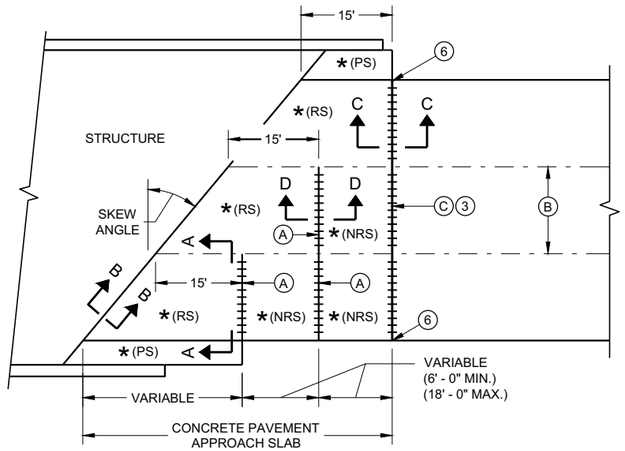
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

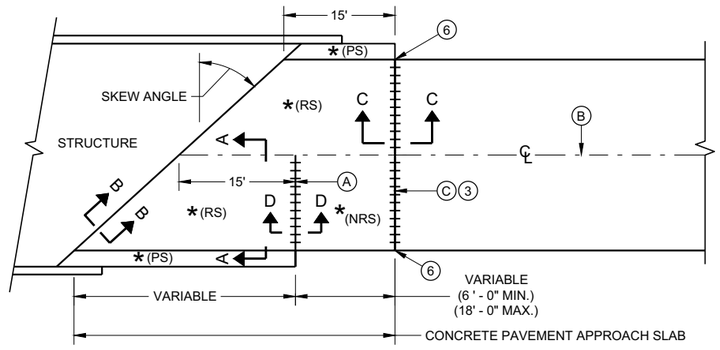
S.D.D. 11 B 2-2

6

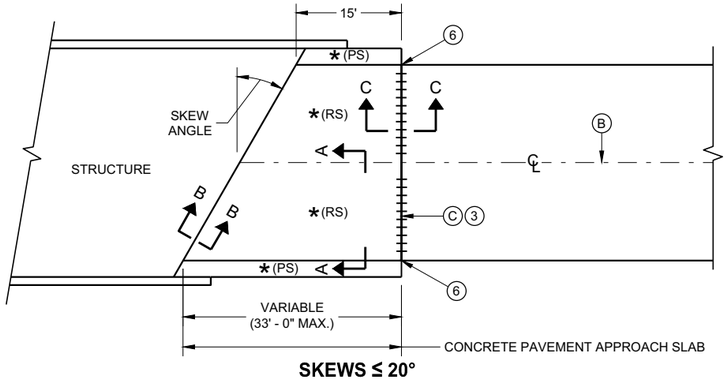
S.D.D. 11 B 2-2



SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)



SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')



SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

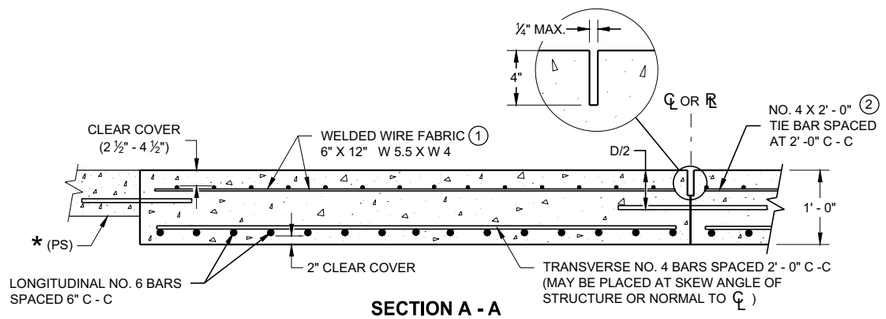
APPROACH SLAB AND ADJACENT PAVEMENT

* (RS) = REINFORCED CONCRETE SLAB

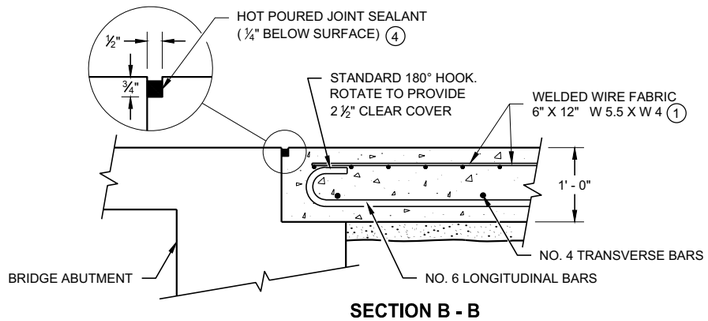
* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

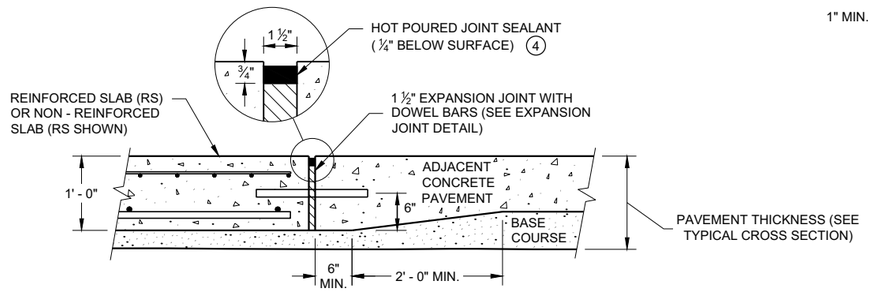
*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

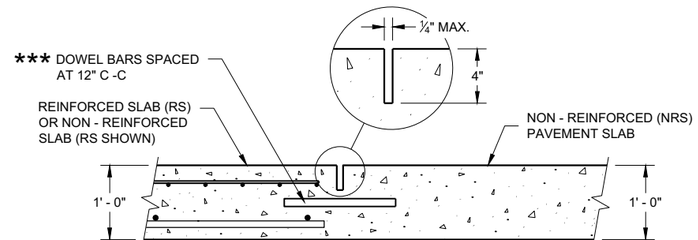
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

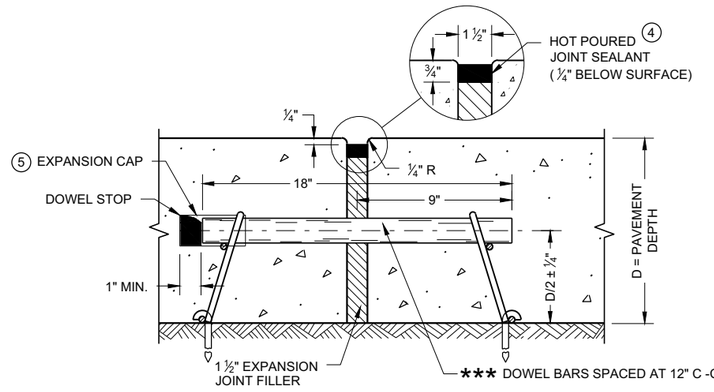
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



SECTION D - D
CONTRACTION JOINT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

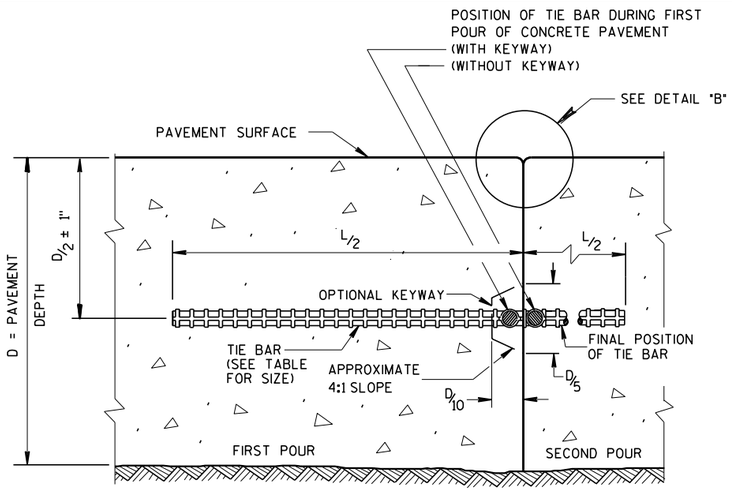
APPROVED
November 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVISOR

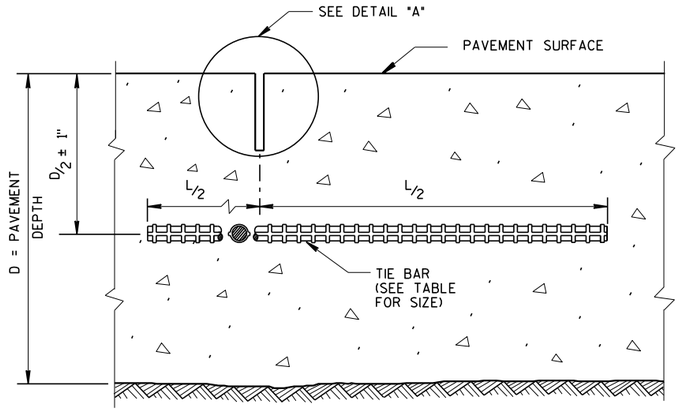
FHWA

6

SDD 13B02 - 09a



CONSTRUCTION JOINT



SAWED JOINT

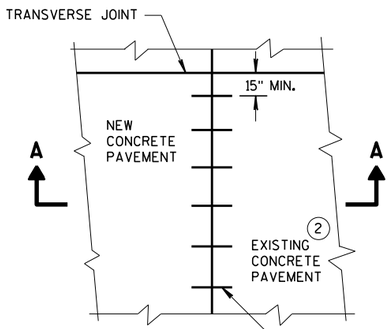
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

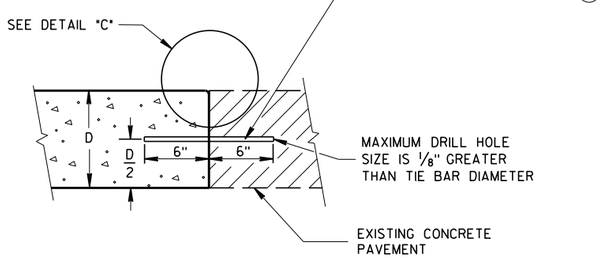
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

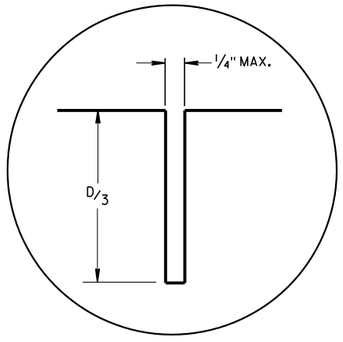


PLAN VIEW

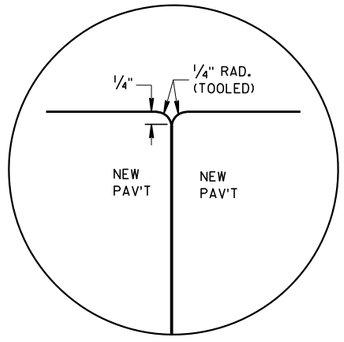


SECTION A-A

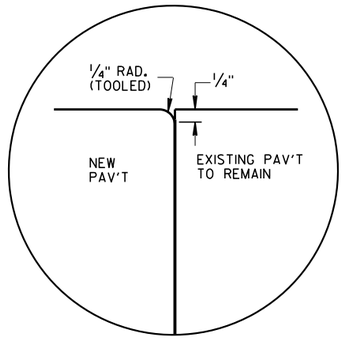
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



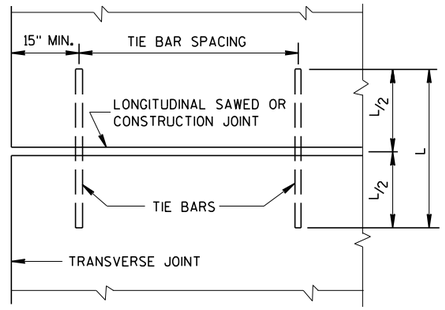
DETAIL "C"

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.



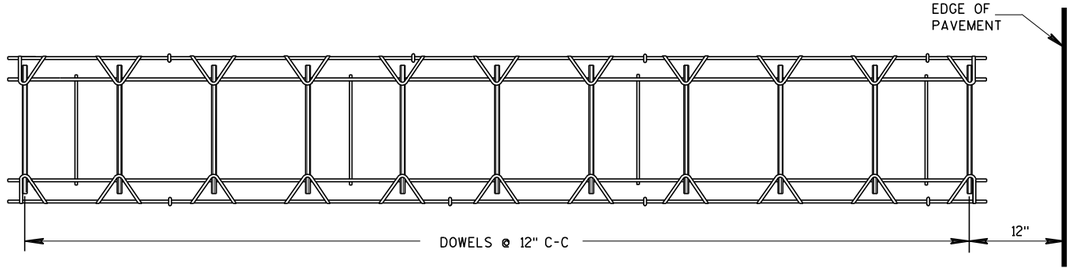
PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp PE — PAVEMENT SUPE
FHWA

6
S.D.D. 13 C 1-19



PLAN VIEW



SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

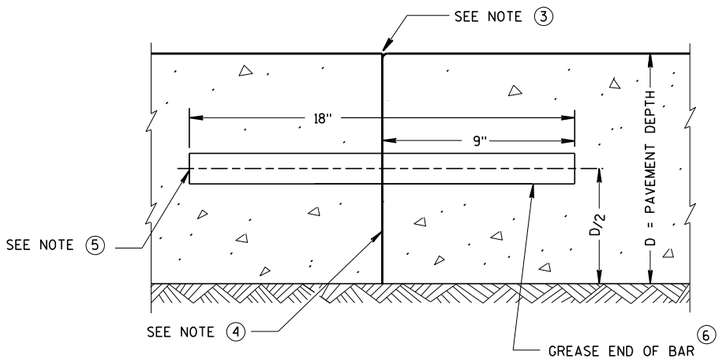
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

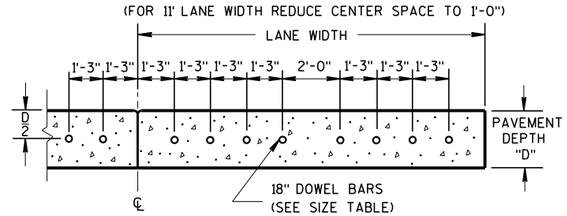
⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

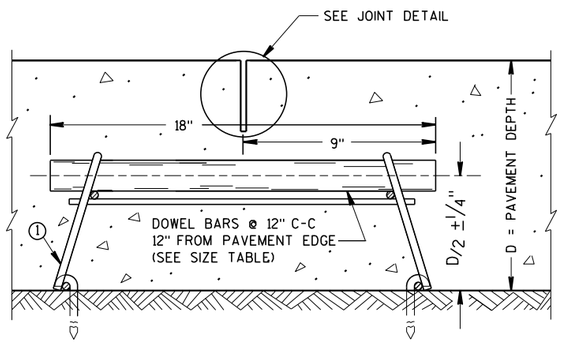
⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



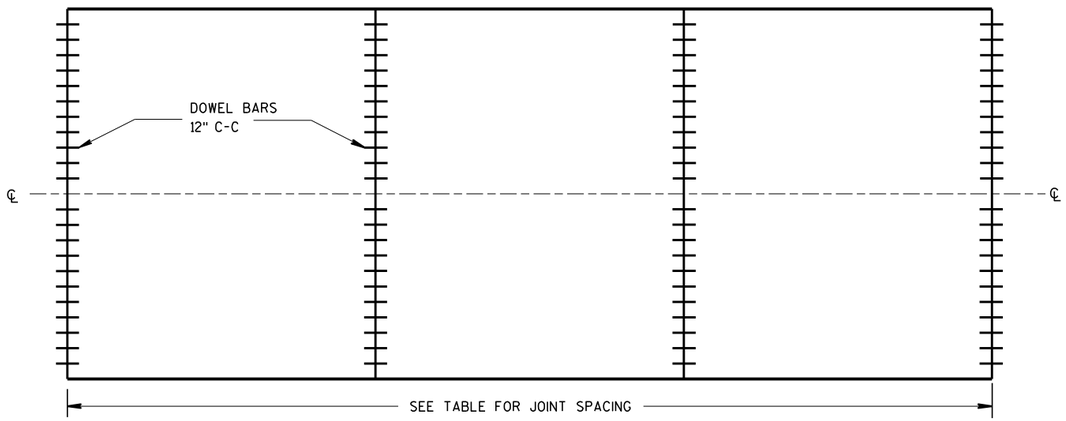
TRANSVERSE CONSTRUCTION JOINT



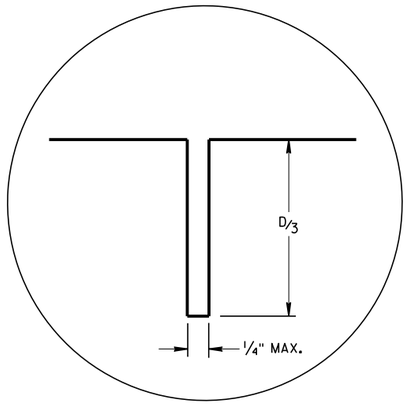
DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



DOWELED CONTRACTION JOINT



CONTRACTION JOINT LOCATIONS



JOINT DETAIL

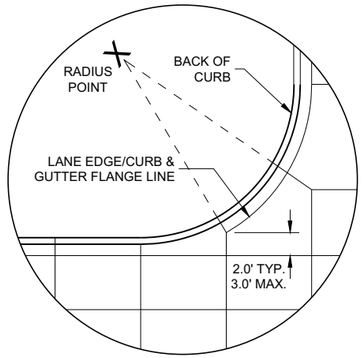
URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

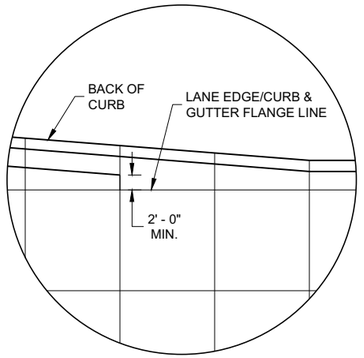
APPROVED
March 2018 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUP
FHWA

6

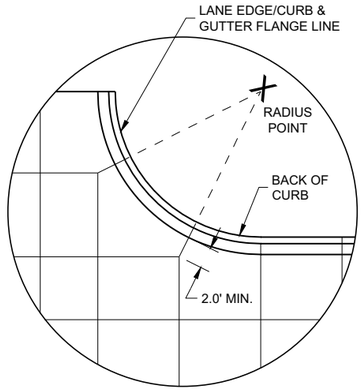
S.D.D. 13 C 13-9



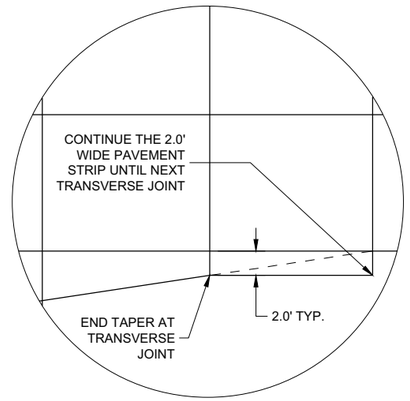
DETAIL "A"



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.

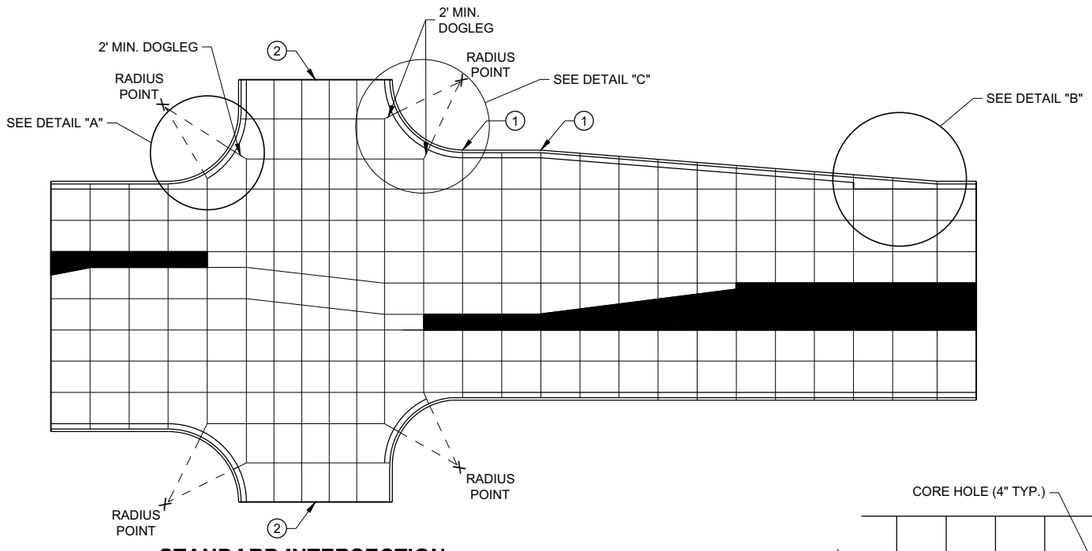
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

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 WITHEDGE OF RADIUS.

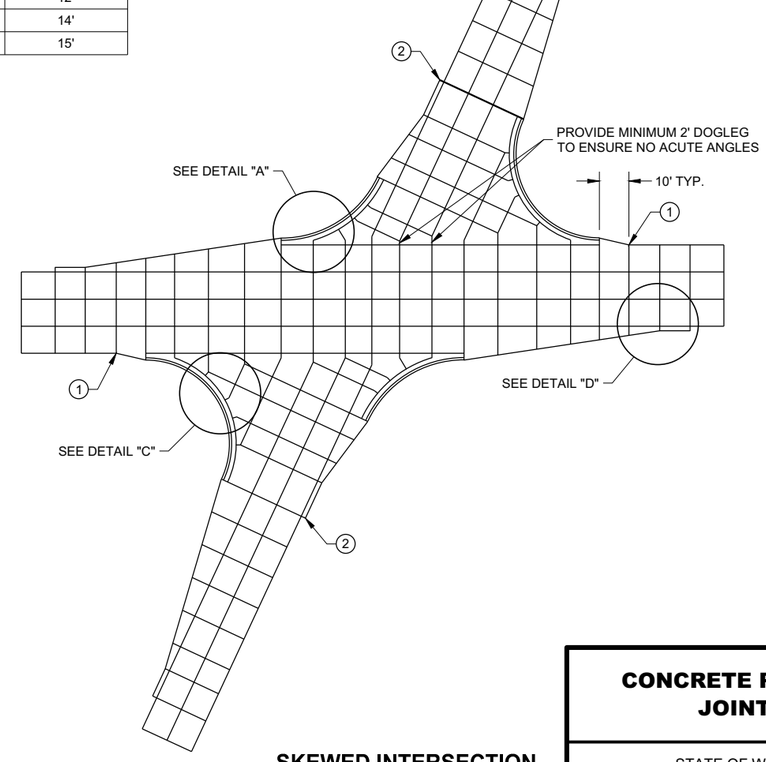
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



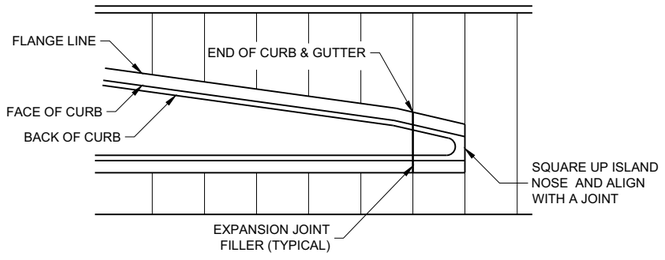
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

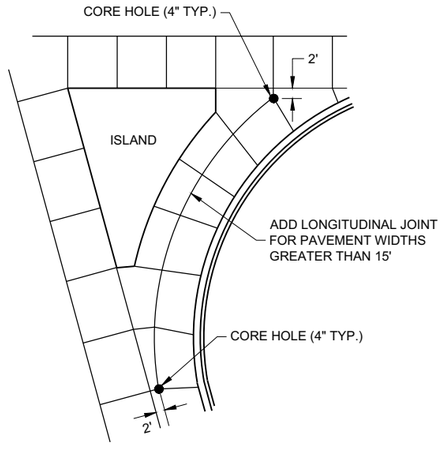
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07a

6

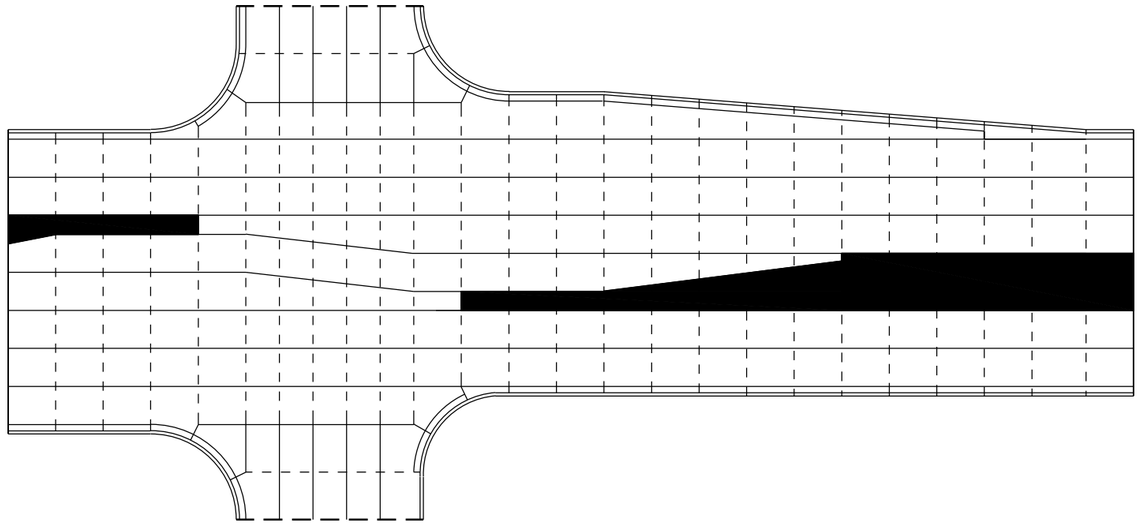
SDD 13C18 - 07a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

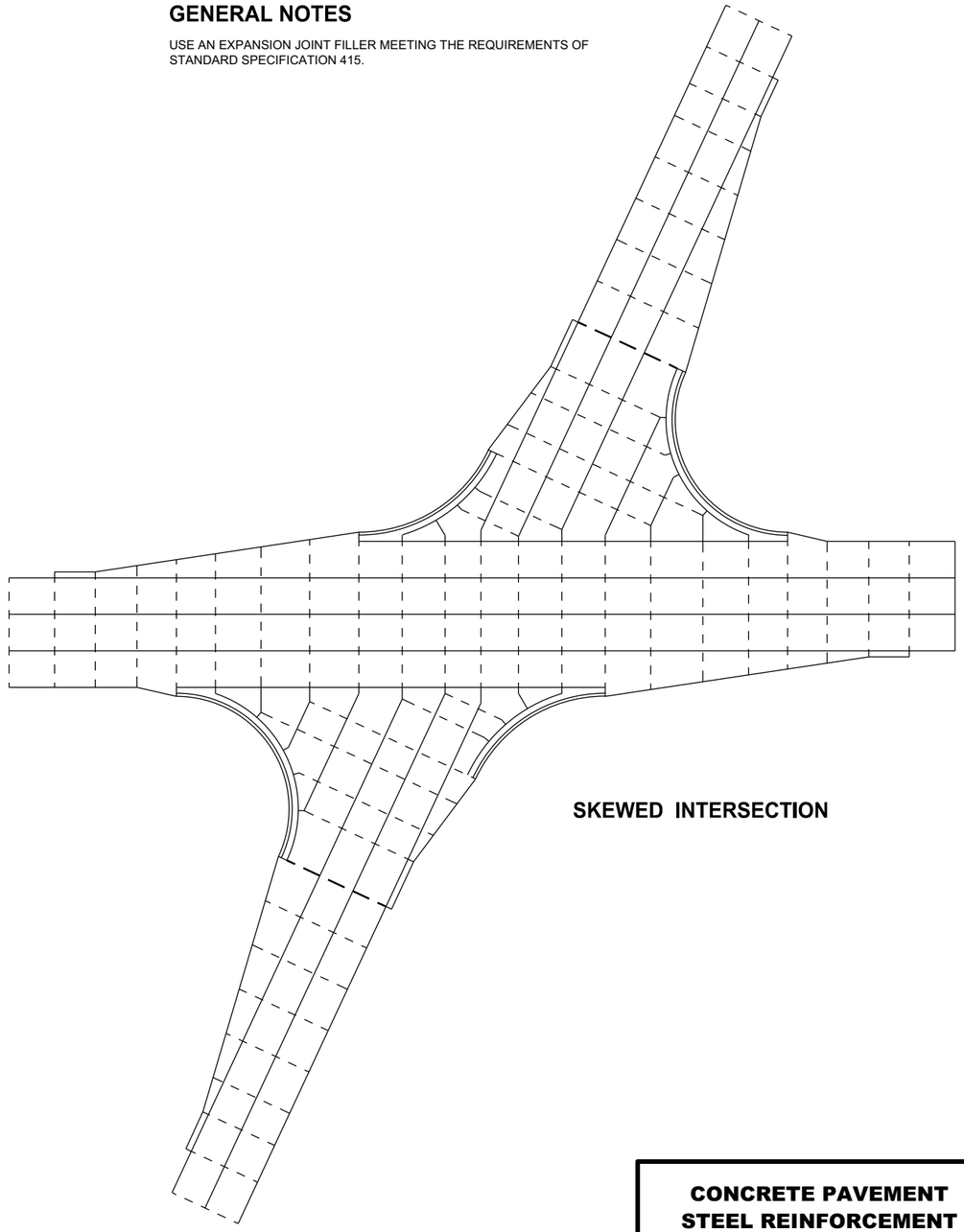
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

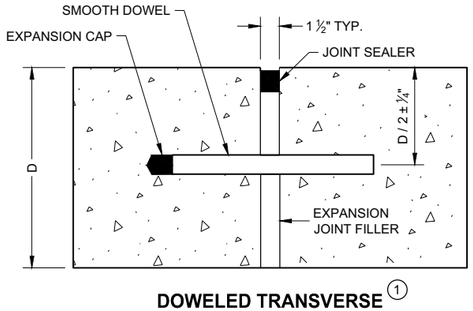
SDD 13C18 - 07b

CONCRETE PAVEMENT STEEL REINFORCEMENT

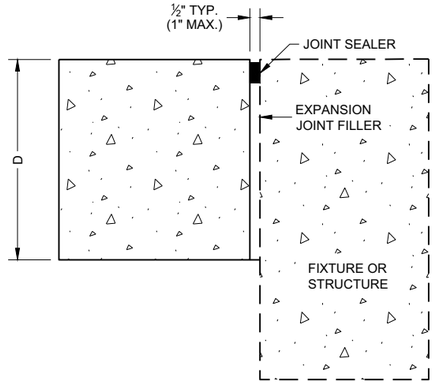
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

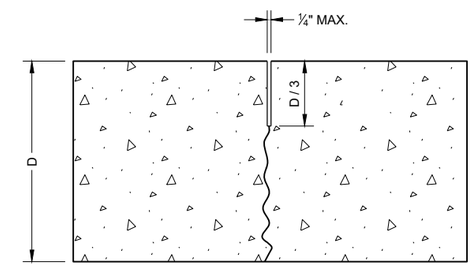
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

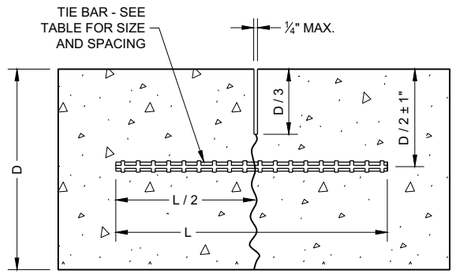
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

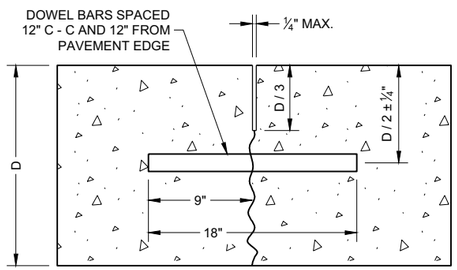
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM 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 ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

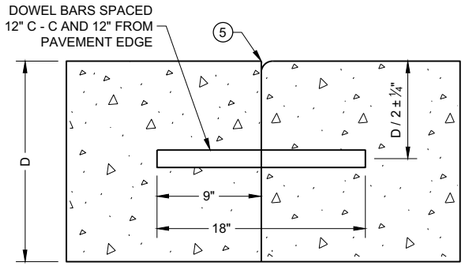


TIED LONGITUDINAL

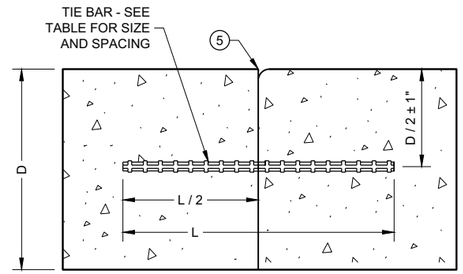


DOWELED TRANSVERSE

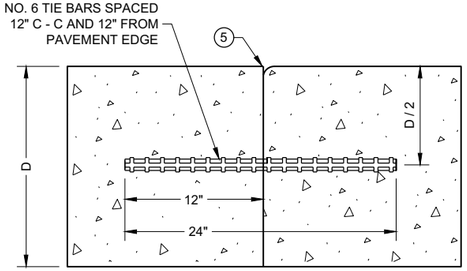
CONTRACTION JOINTS (2)



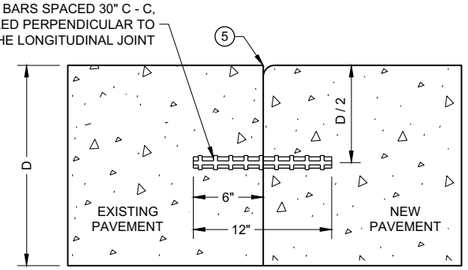
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

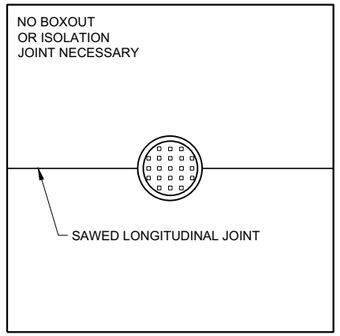
CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

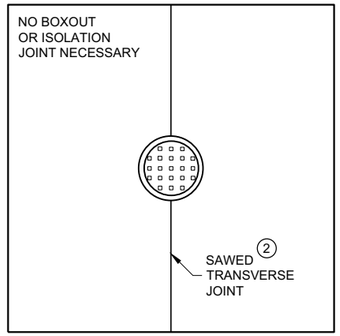
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

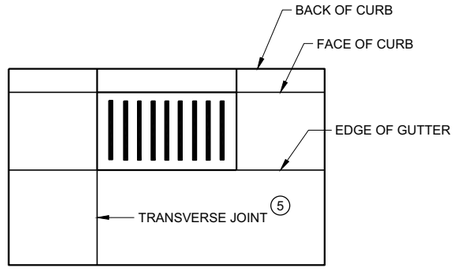
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



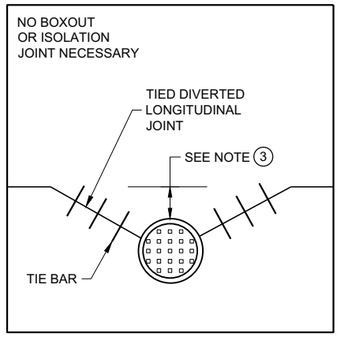
MANHOLE WITH TRANSVERSE JOINT



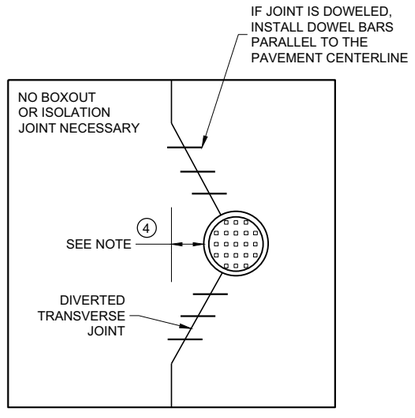
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

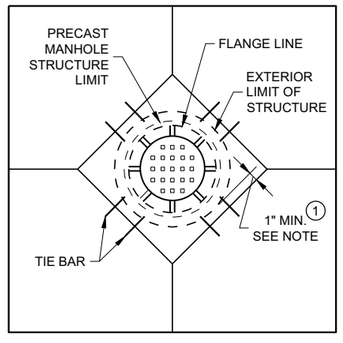
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL 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 REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 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 REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

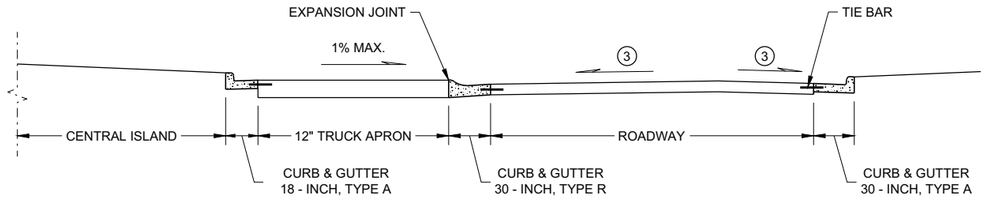
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

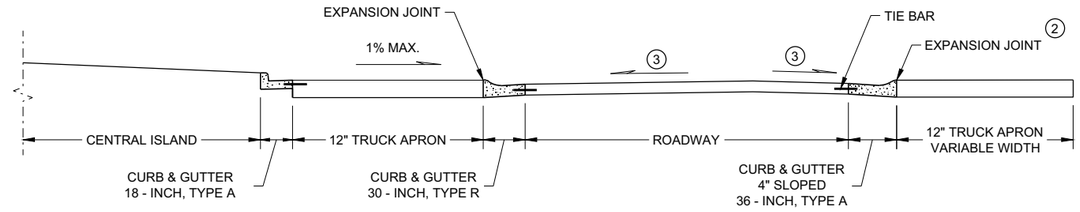
FHWA

6

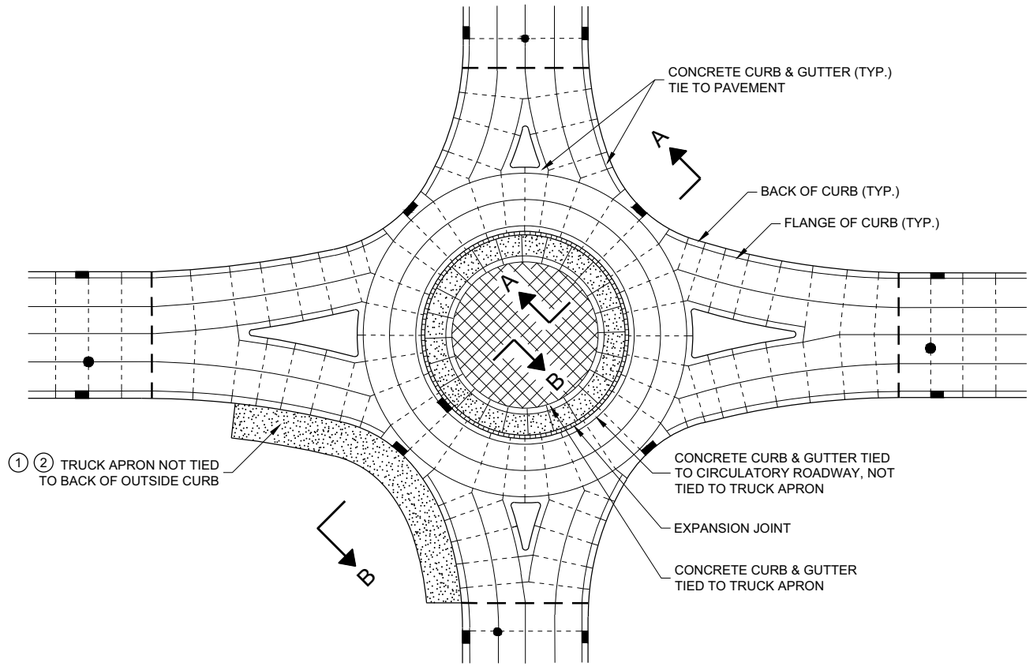
SDD 13C18 - 07d
SDD 13C18 - 07d



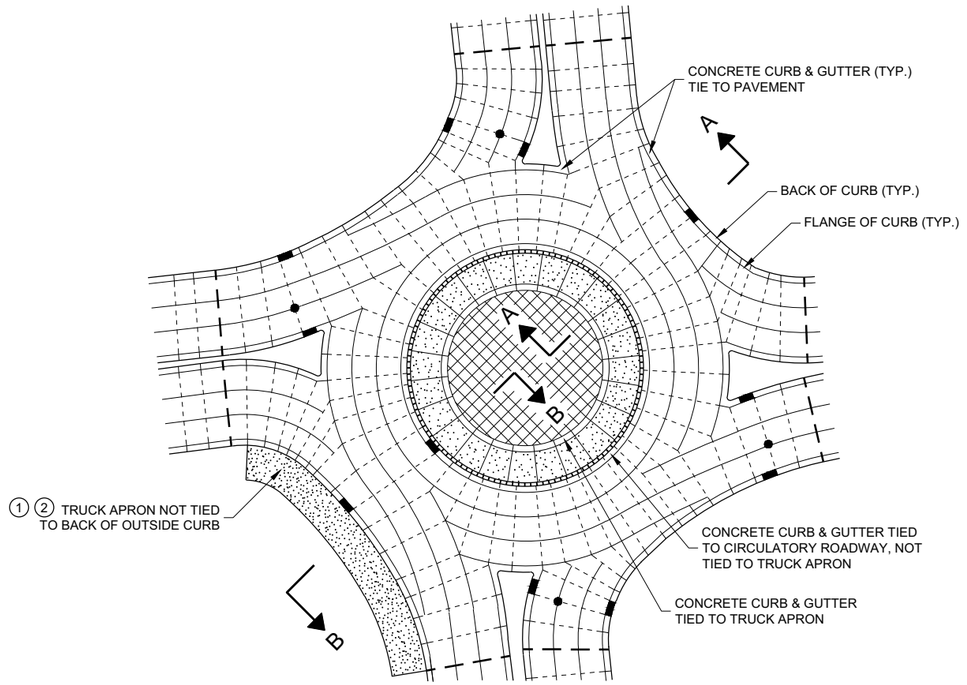
SECTION A - A



SECTION B - B



ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18 - SHEET "a"

USE EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.

(1) DESIGNER DETERMINES SIZE AND LOCATION(S) OF TRUCK APRON TO ACCOMODATE TRACKING OF OVERSIZE / OVERWEIGHT VEHICLES.

(2) TIE THE OUTSIDE TRUCK APRON TO THE BACK SIDE OF CURB ONLY WHEN ENTIRE TRUCK APRON IS LESS THAN 3 FEET.

(3) CONFORM TO PLAN CONSTRUCTION DETAILS FOR CIRCULATORY ROADWAY CROSS SLOPE.

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISOR

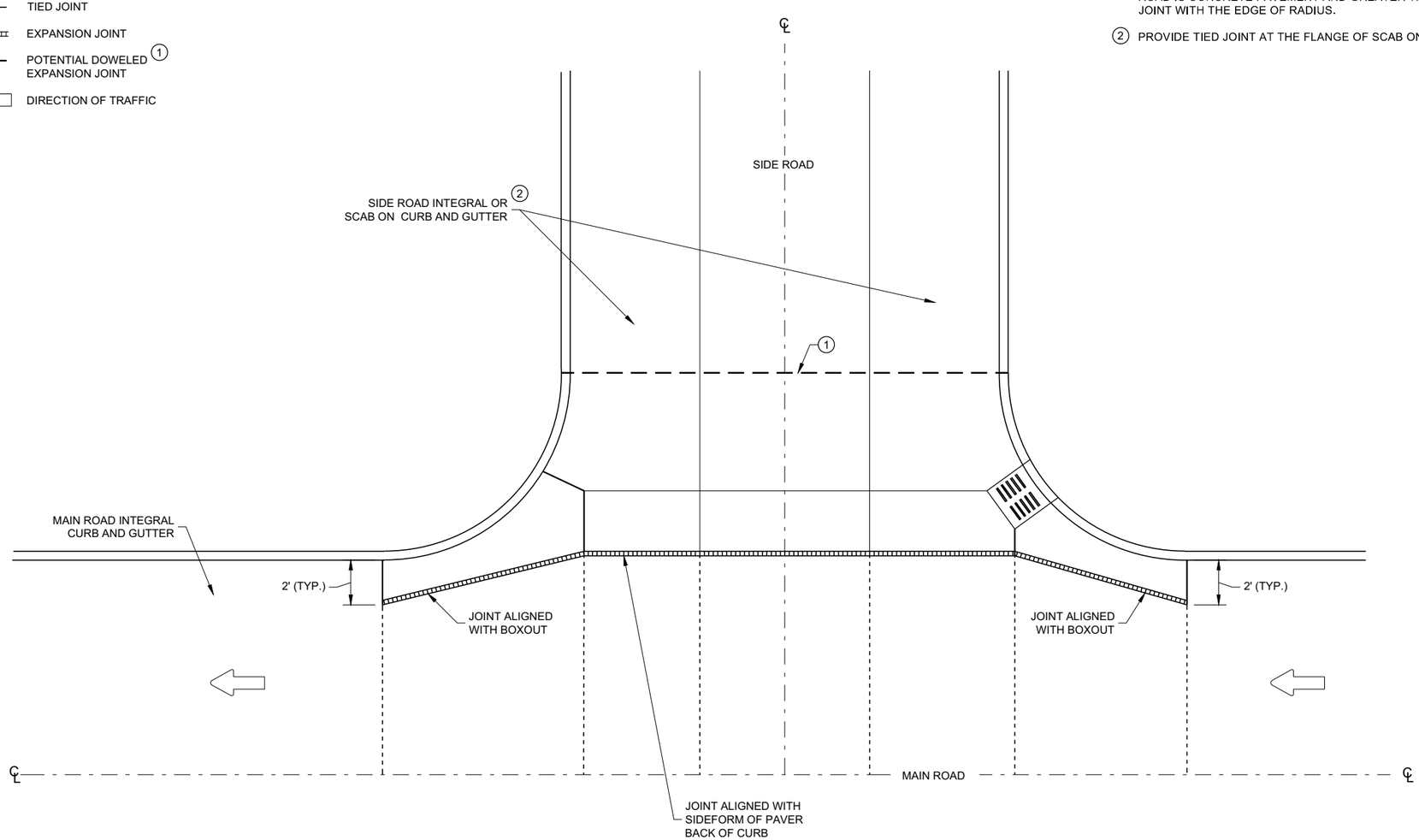
FHWA

6

SDD 13C18 - 07e

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT (1)
- DIRECTION OF TRAFFIC



GENERAL NOTES

(1) 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 THE EDGE OF RADIUS.

(2) PROVIDE TIED JOINT AT THE FLANGE OF SCAB ON CURB IF SCAB ON CURB AND GUTTER IS USE.

INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
ROADWAY STANDARDS DEVE ENGINEER

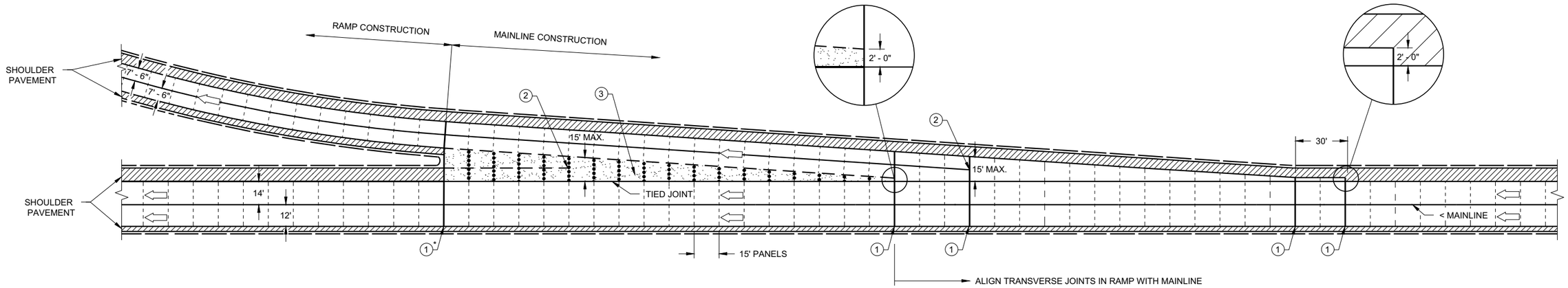
FHWA

6

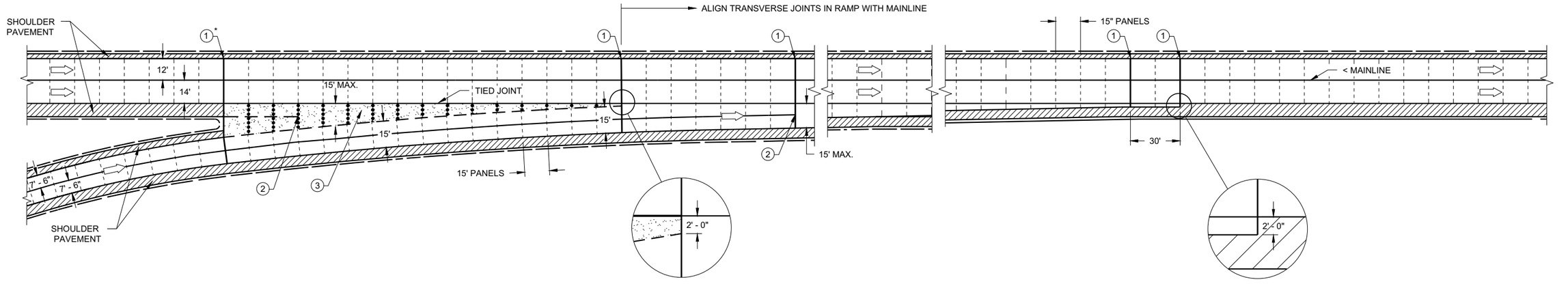
SDD 13C18 - 07f

6

SDD 13C18 - 07f



DECELERATION LANE



ACCELERATION LANE

GENERAL NOTES

PAVEMENT AND BASE THICKNESS, PANEL LENGTHS, JOINTS AND REINFORCEMENT FOR THE DECELERATION AND ACCELERATION LANES, INCLUDING TAPERS, SHALL BE THE SAME AS THE MAINLINE, EXCEPT WHERE OTHERWISE NOTED.

ALL REINFORCEMENT BARS SHALL BE EPOXY COATED CONFORMING TO SUBSECTION 505.2.6 OF THE STANDARD SPECIFICATIONS.

LANE AND SHOULDER WIDTHS MAY VARY FROM SHOWN. SEE CONSTRUCTION PLANS FOR ACTUAL PROPOSED WIDTHS.

(1) CRITICAL TRANSVERSE JOINT LOCATIONS AT PAVEMENT WIDTH CHANGES.
((1)* IS NOT A CRITICAL TRANSVERSE JOINT WHEN ASPHALTIC GORE IS INSTALLED).

(2) STOP LONGITUDINAL JOINT WITH CORE HOLE (2" TYP.) WHEN IT MEETS THE FIRST TRANSVERSE JOINT LESS THAN 15' WIDE OR STOP LONGITUDINAL JOINT WHEN IT MEETS 2' AWAY FROM THE TIED JOINT OF THE MAINLINE.

(3) DISREGARD THE JOINT DETAILS IN AND AROUND THE GORE WHEN ASPHALTIC GORE IS INSTALLED.

LEGEND

- DOWELED JOINT
- UNDOWELED JOINT
- TIED JOINT
- UNTIED JOINT
- GORE
- DIRECTION OF TRAVEL

CONCRETE PAVEMENT JOINTING ACCELERATION/ DECELERATION LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
ROADWAY STANDARDS DEVE ENGINEER

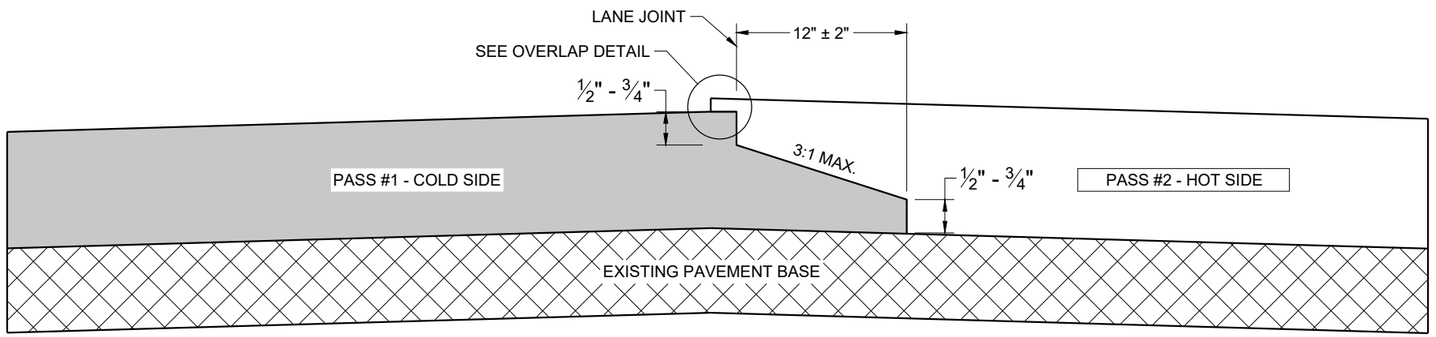
FHWA

6

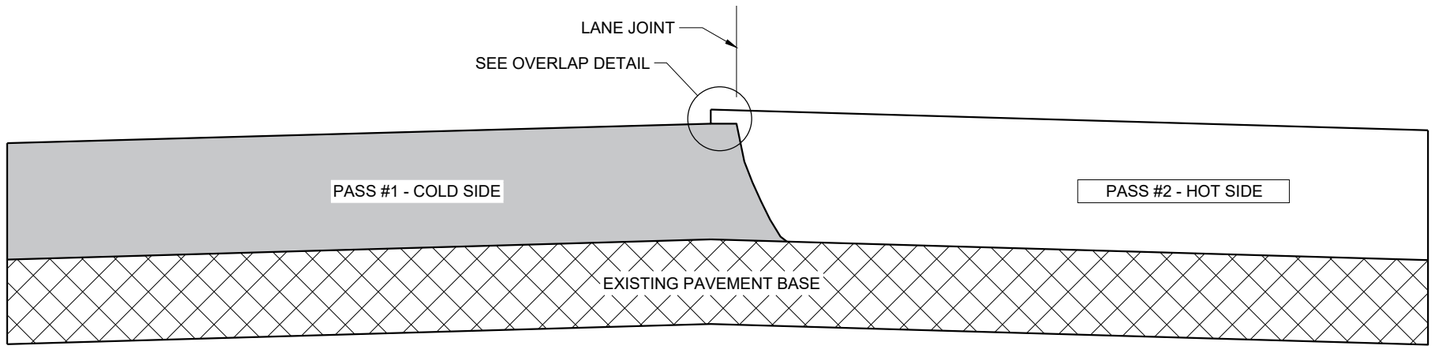
6

SDD13C18 - 07g

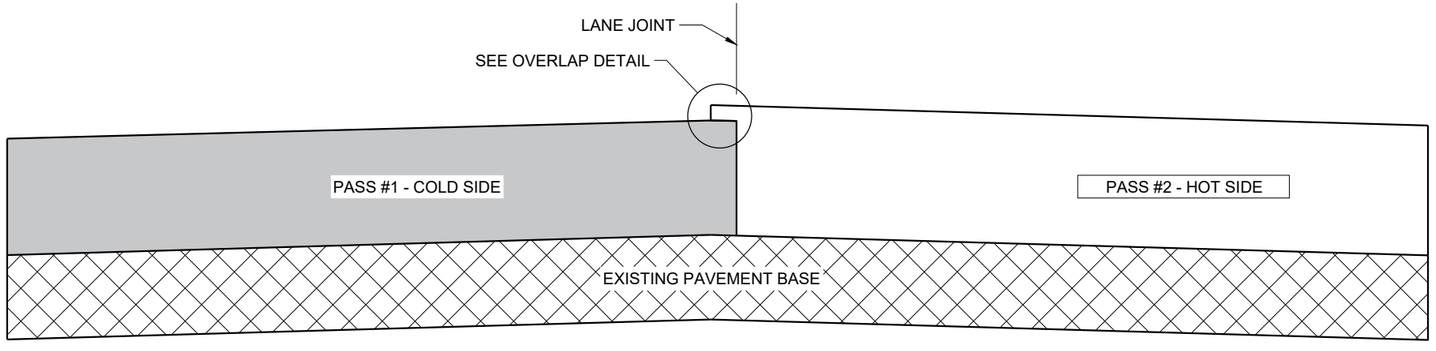
SDD13C18 - 07g



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

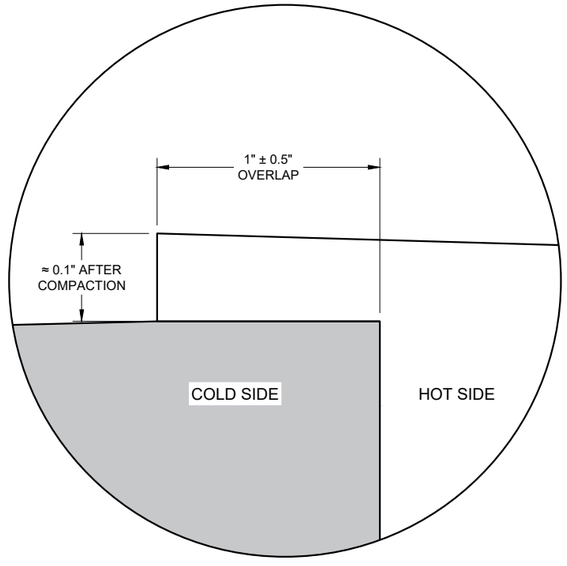
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

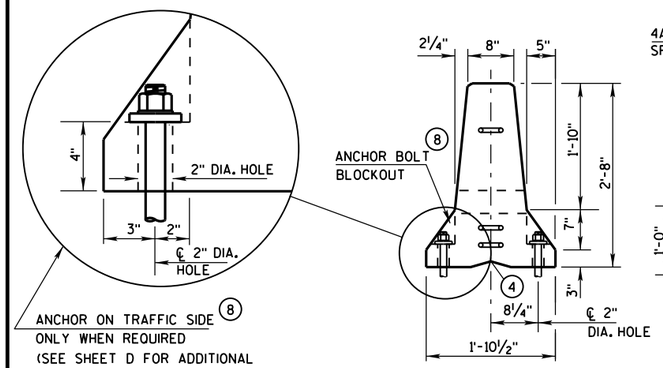
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

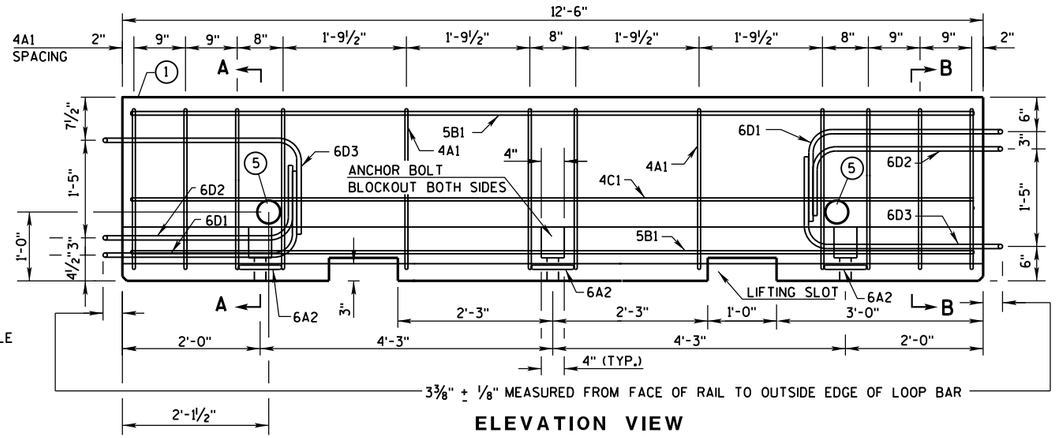
APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

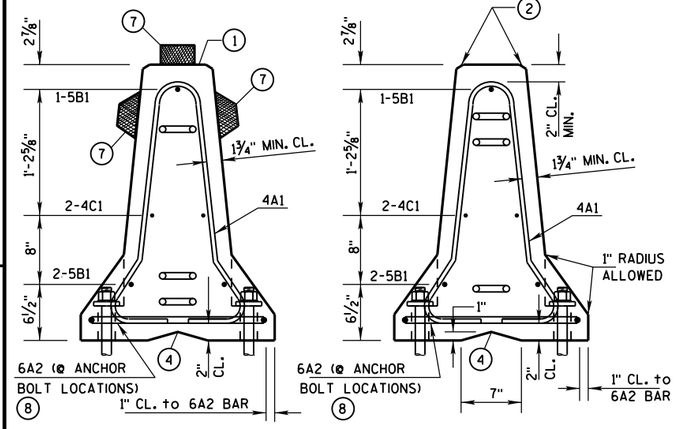
FHWA



END VIEW

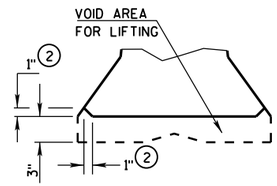


ELEVATION VIEW

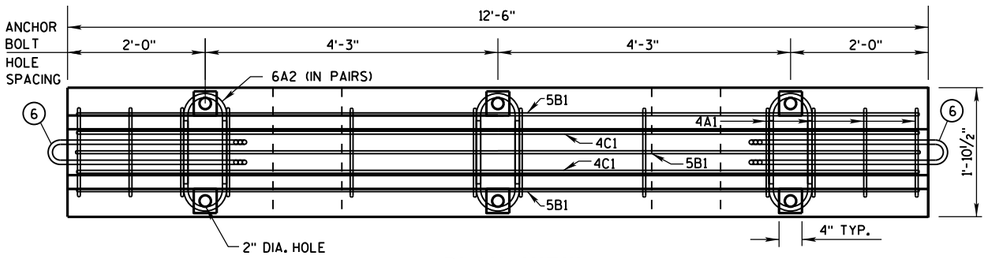


SECTION A-A
(STIRRUP PLACEMENT)

SECTION B-B
(STIRRUP PLACEMENT)

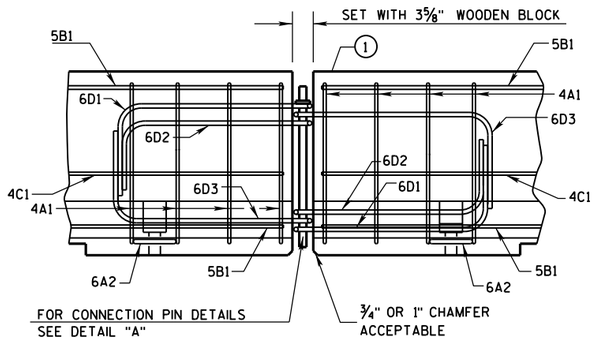


DETAIL "B"
LIFTING SLOT DETAIL

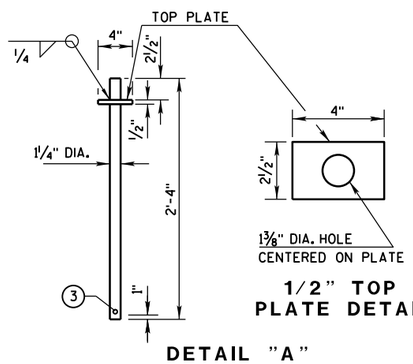


PLAN VIEW

DETAILS OF BARRIER SECTION

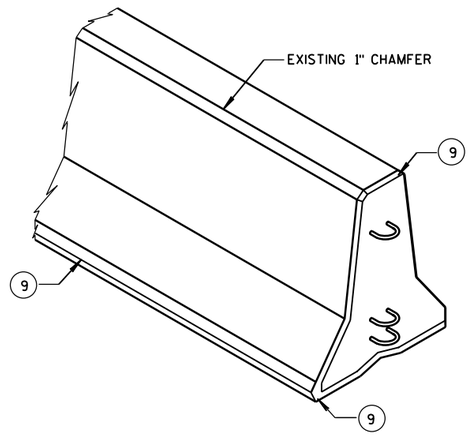


DETAILS OF BARRIER CONNECTION



1/2" TOP PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-15(a) THRU 14B7-15(i).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

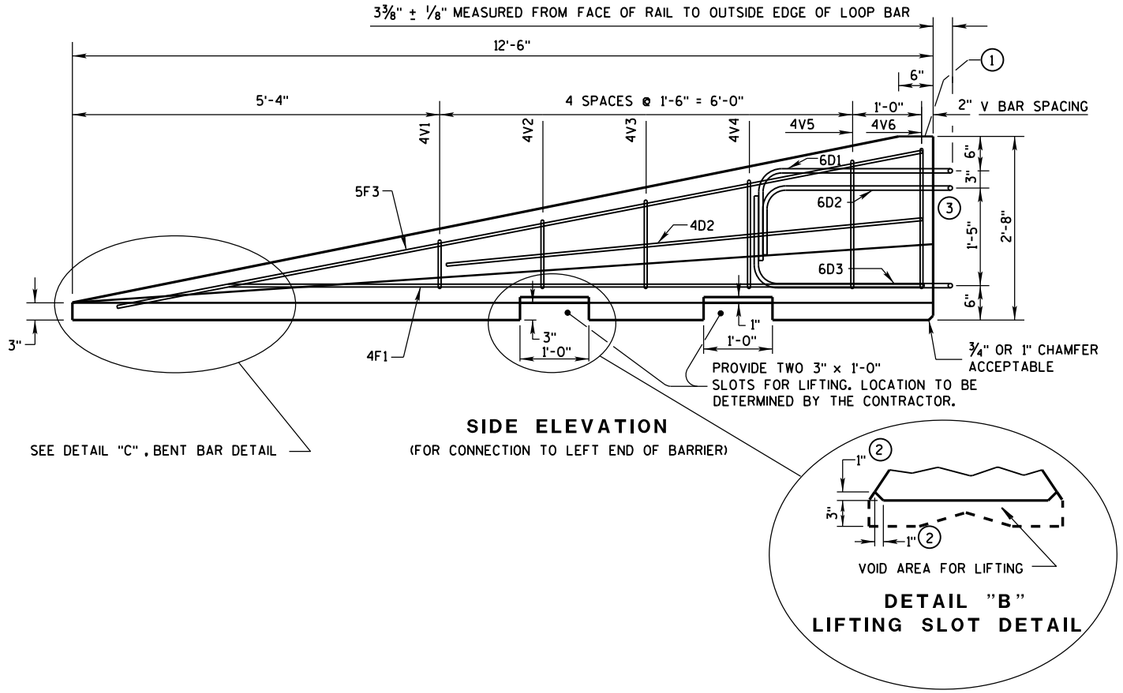
(8) SEE SHEET D FOR HOW TO ANCHOR BARRIER. SEE SHEET E FOR WHEN TO ANCHOR BARRIER.

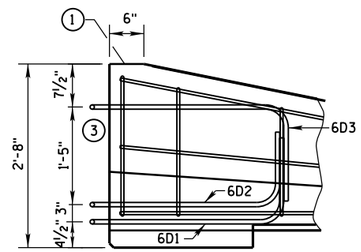
(9) 1" CHAMFER OPTIONAL.

f'c = 4,000 psi

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

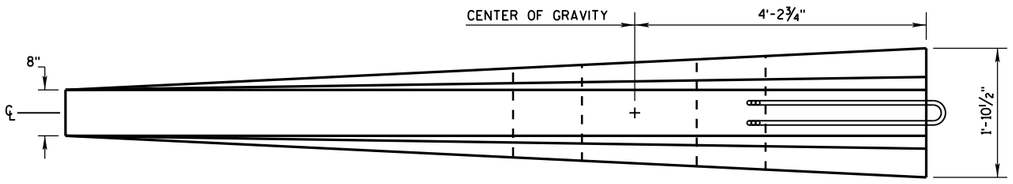
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 302

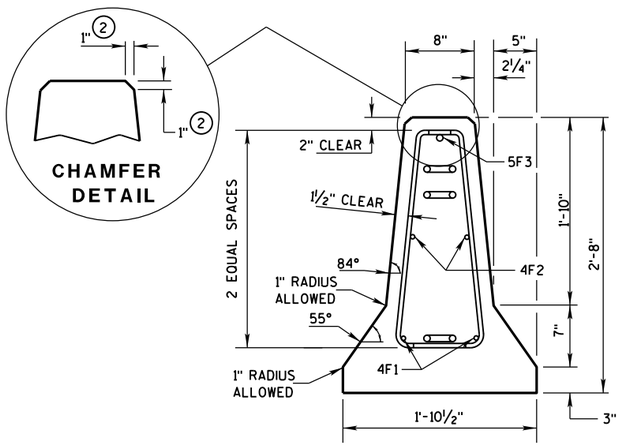


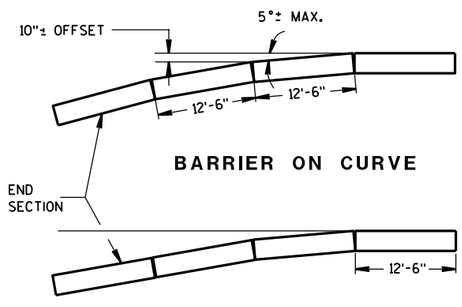


GENERAL NOTES

1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.







POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

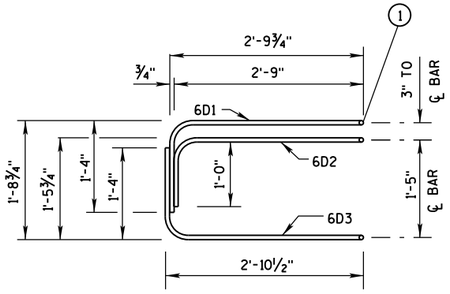
6

S.D.D. 14 B 7-15b

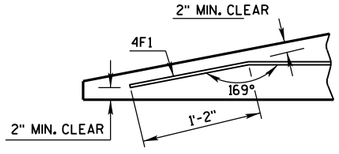
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

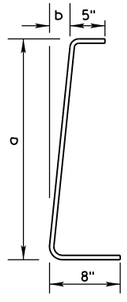
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

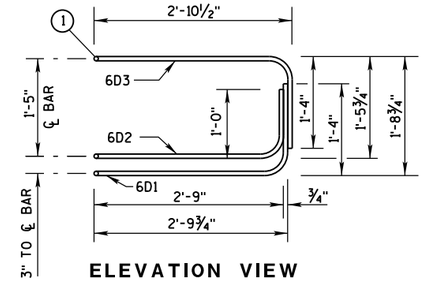
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

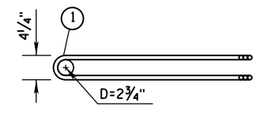
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

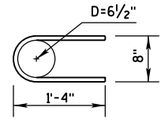
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



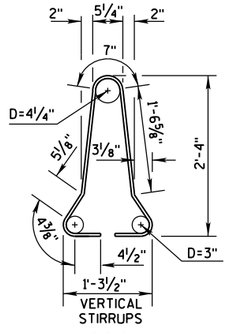
ELEVATION VIEW



PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



6A2



4A1

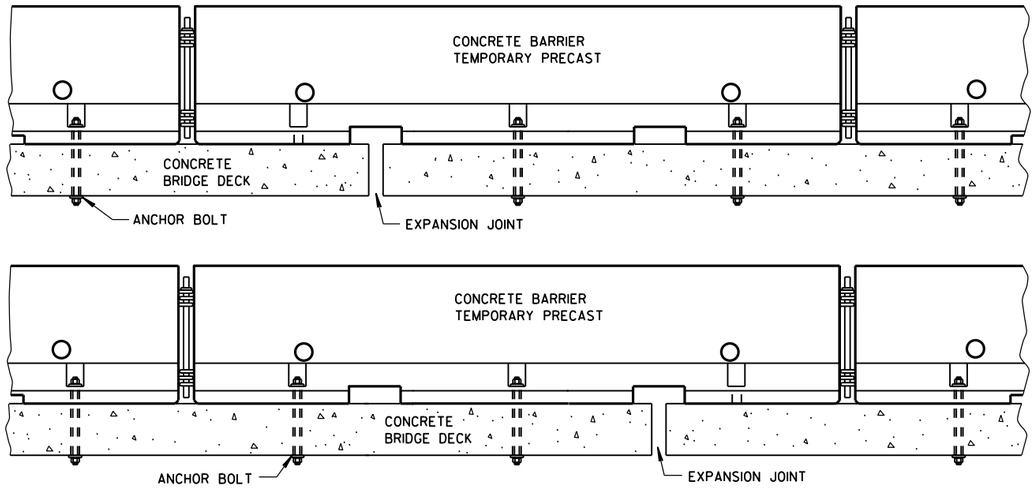
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 7-15c



TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)

GENERAL NOTES

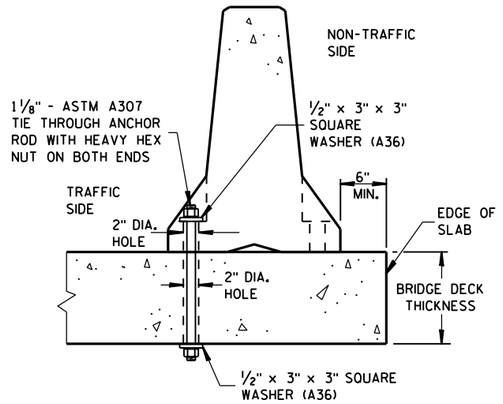
SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(1) 1⅛" DIAMENTER A307 THREADED ROD. ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL. ASTM A563A HEAVY HEX NUT.

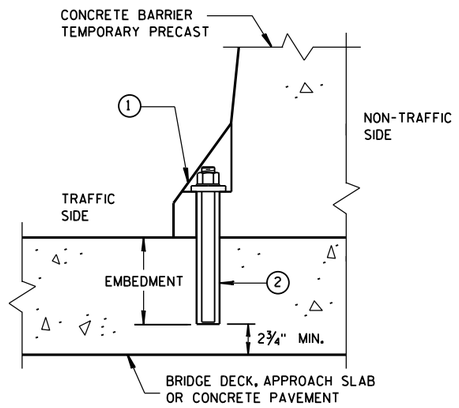
(2) ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.

(3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



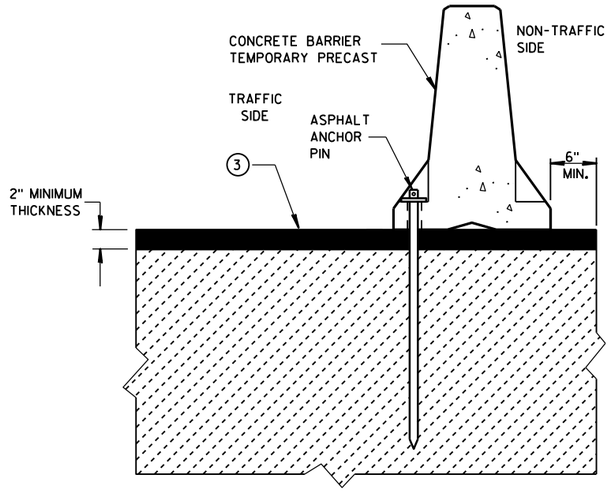
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

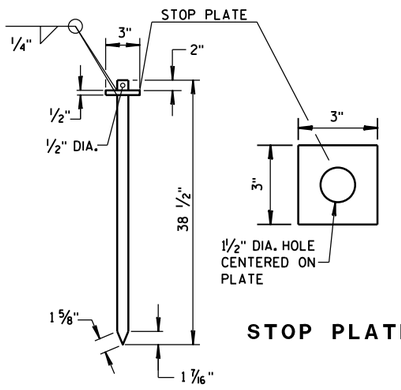


REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



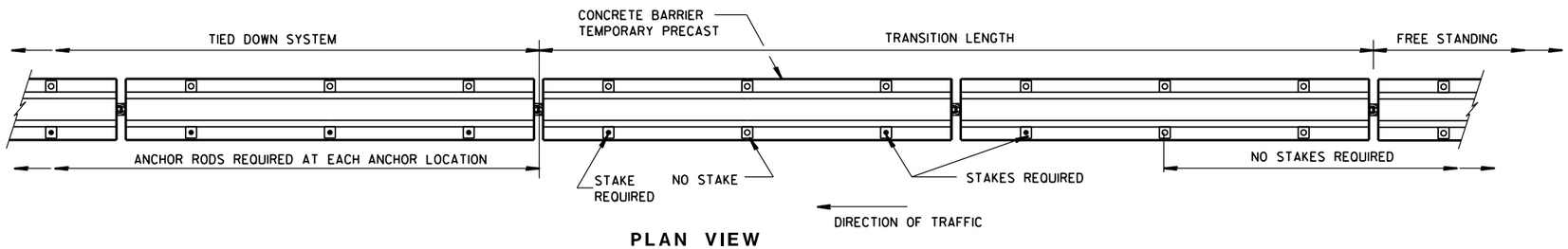
STAKE DOWN INSTALLATION FOR ASPHALTIC SURFACE



STOP PLATE

ASPHALT ANCHOR PIN

(ASTM A36 STEEL)



PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

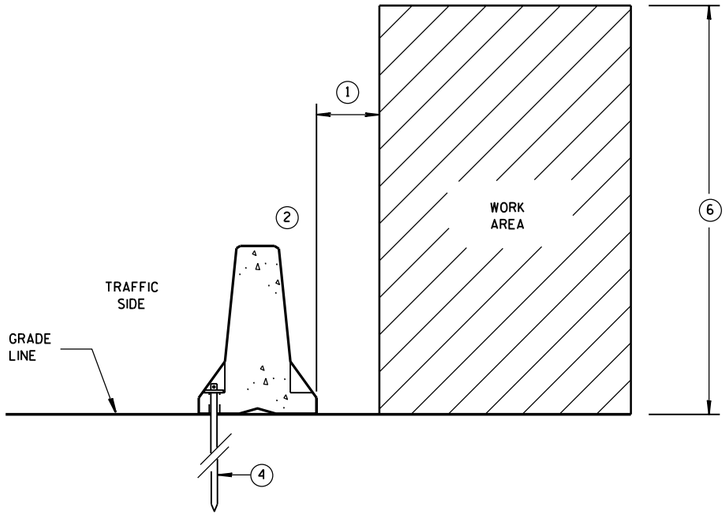
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

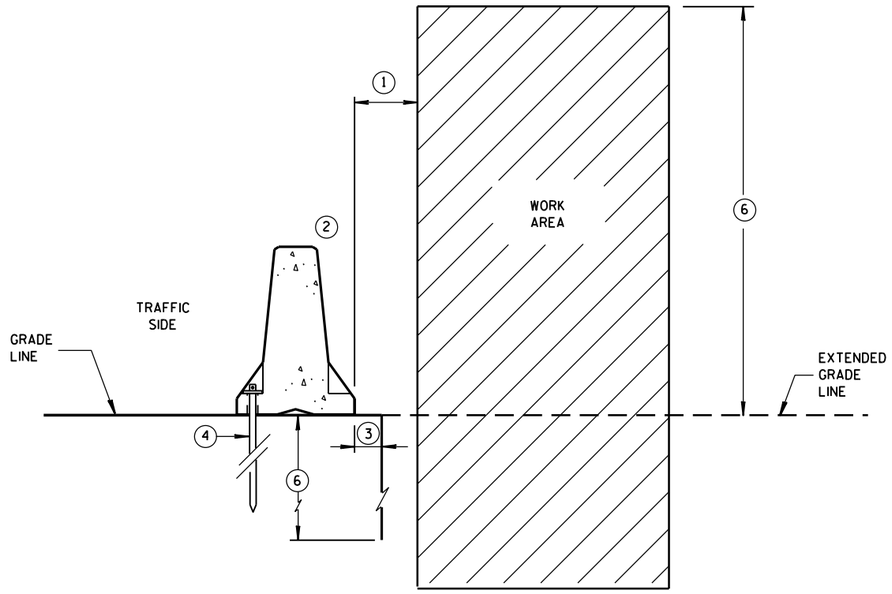
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 7-15d



ANCHORED BARRIER SPACE REQUIREMENTS FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

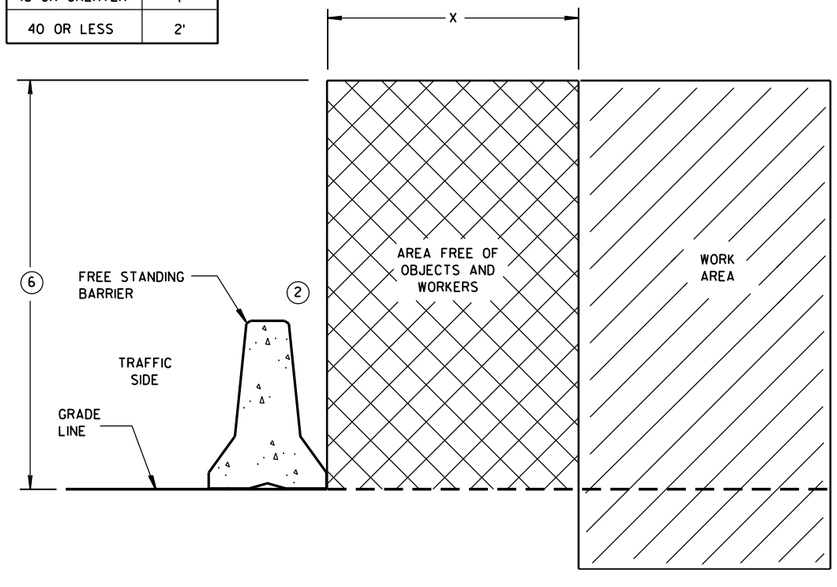


ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS

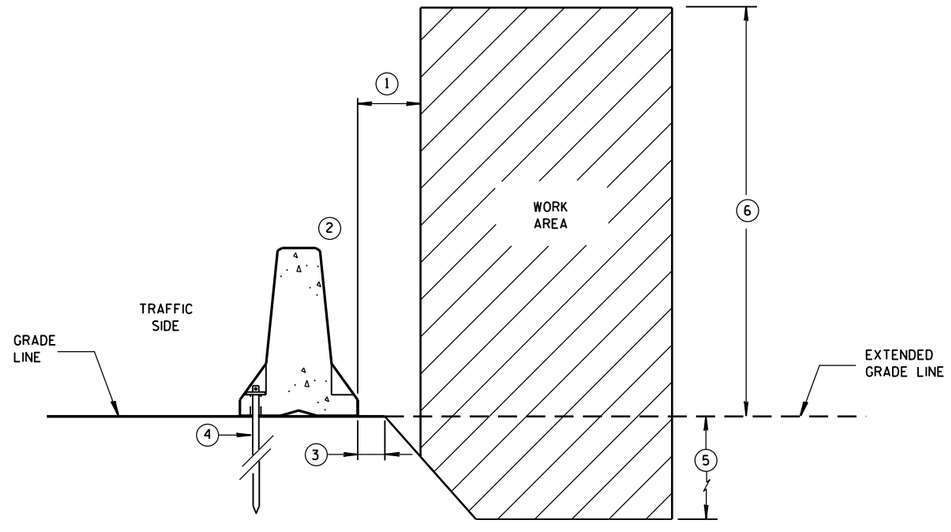
GENERAL NOTES

1. WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
2. OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
3. SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
4. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
5. DEPTH OF 3 FEET OR MORE.
6. Y = 6'-6".

POSTED SPEED MPH	X
45 OR GREATER	4'
40 OR LESS	2'



FREE STANDING BARRIER SPACE REQUIREMENTS



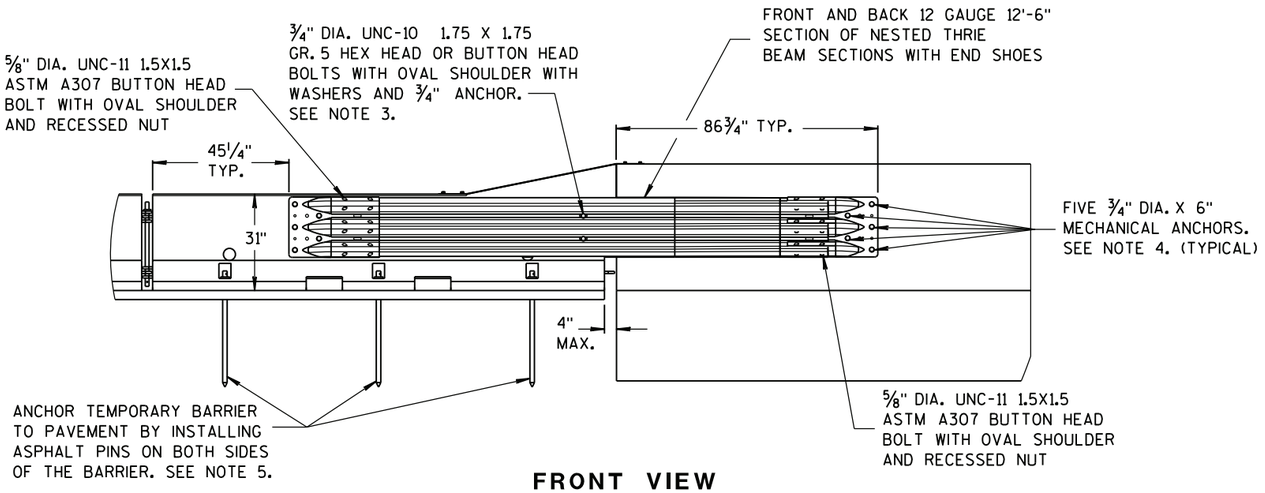
ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

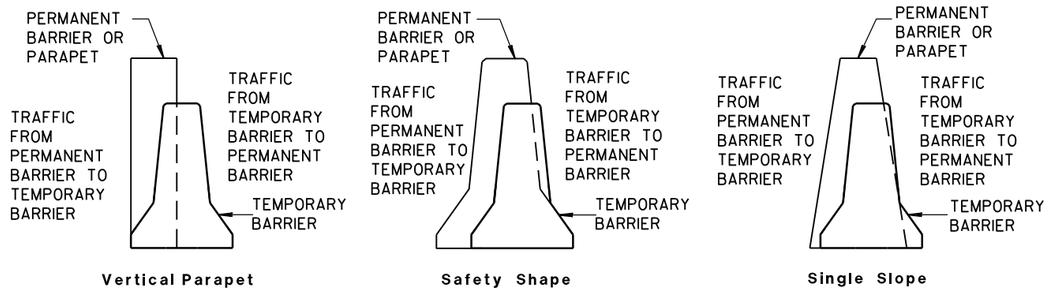
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 7-15e



FRONT VIEW

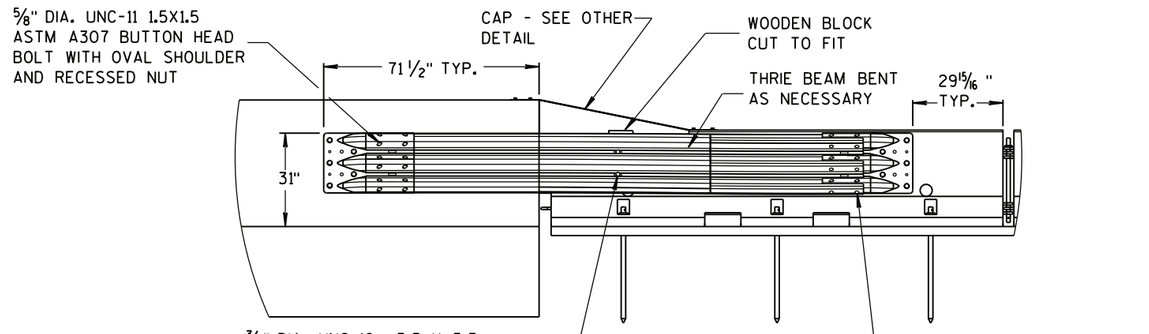


TEMPORARY BARRIER PLACEMENT FOR TRANSITION TO TIED DOWN SYSTEM

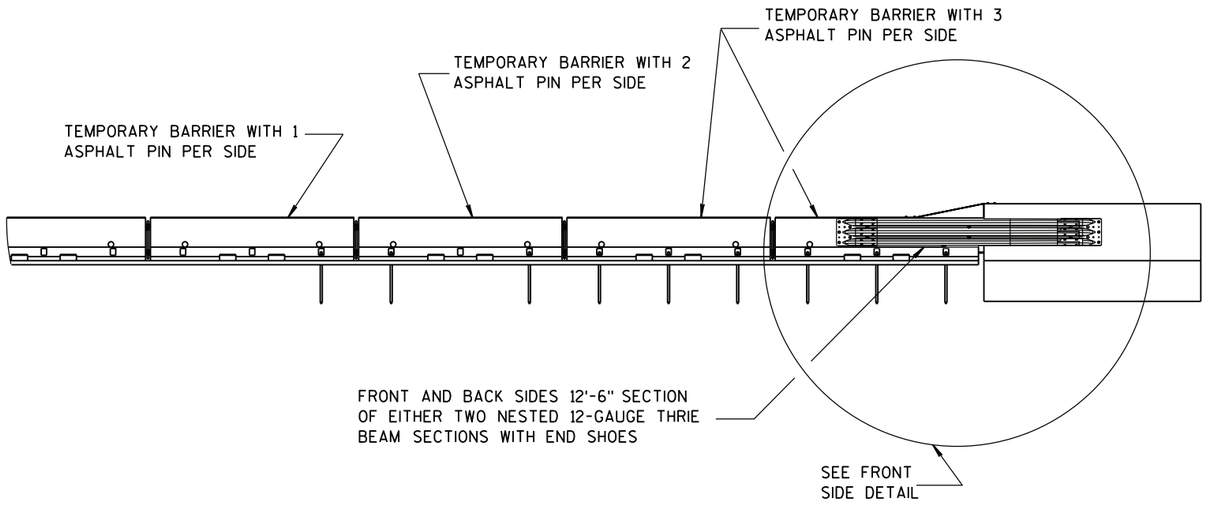
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS REGARDLESS OF TRAFFIC.

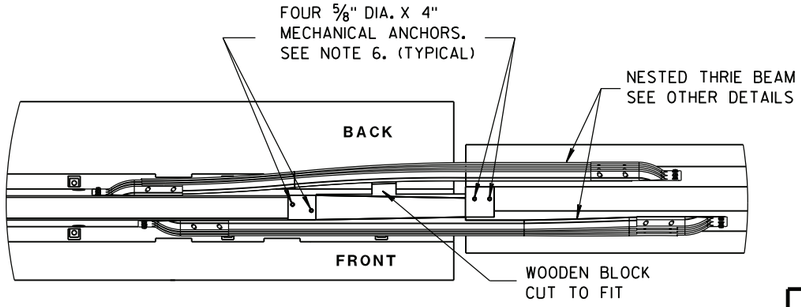
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



BACK VIEW



FRONT VIEW



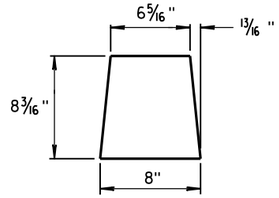
PLAN VIEW

TRANSITION TO TIED DOWN SYSTEM

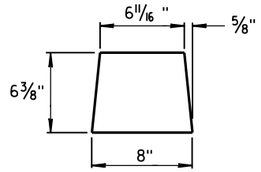
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

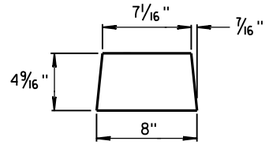
6
S.D.D. 14 B 7-15f



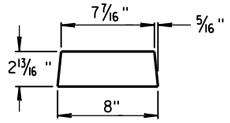
GUSSET 1



GUSSET 2

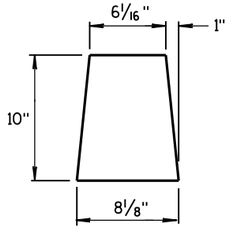


GUSSET 3

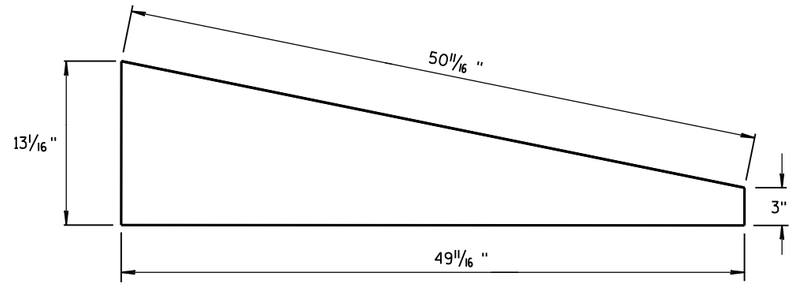


GUSSET 4

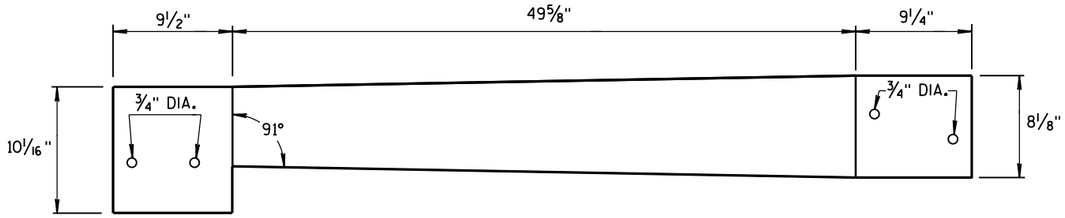
GUSSETS

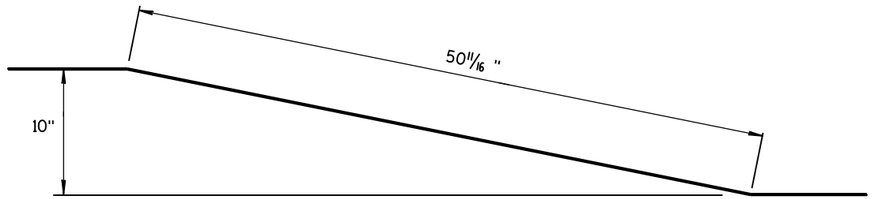


END PLATE



SIDE PLATE

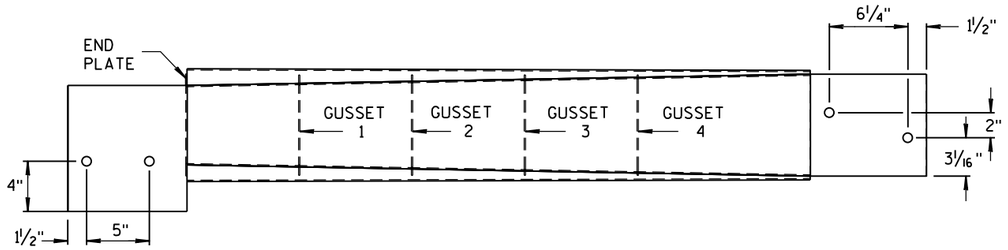


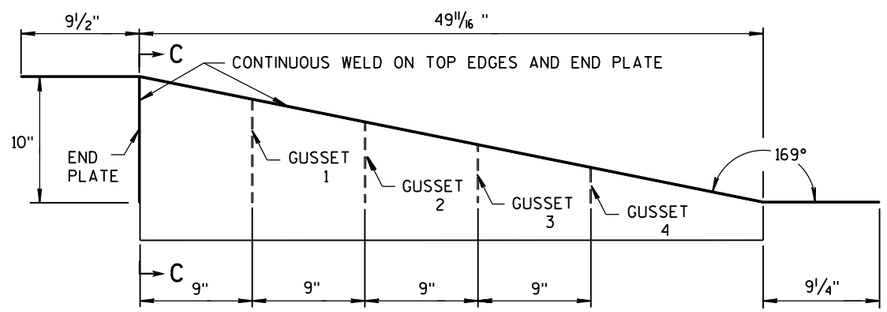


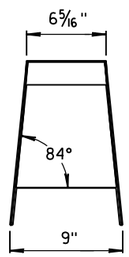
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.







SECTION C-C

NOTES

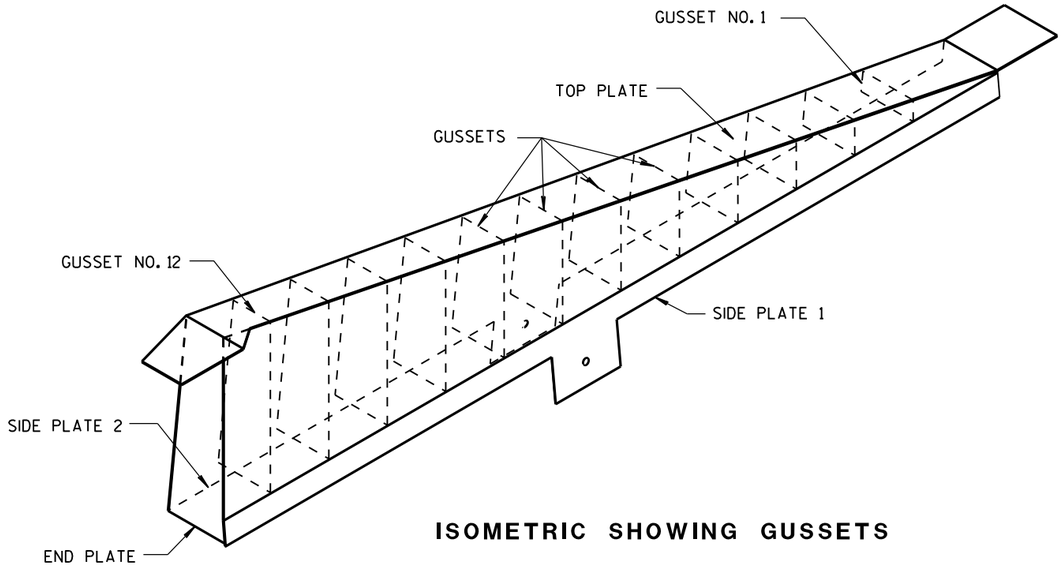
1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

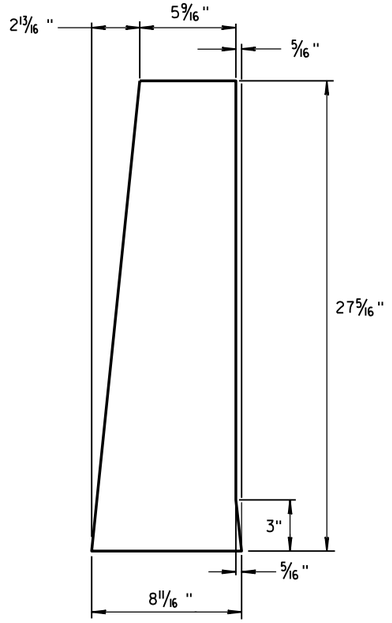
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15g

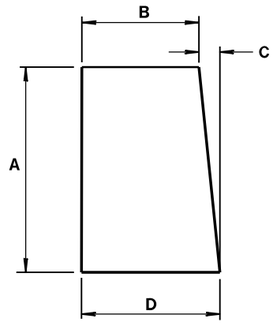


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



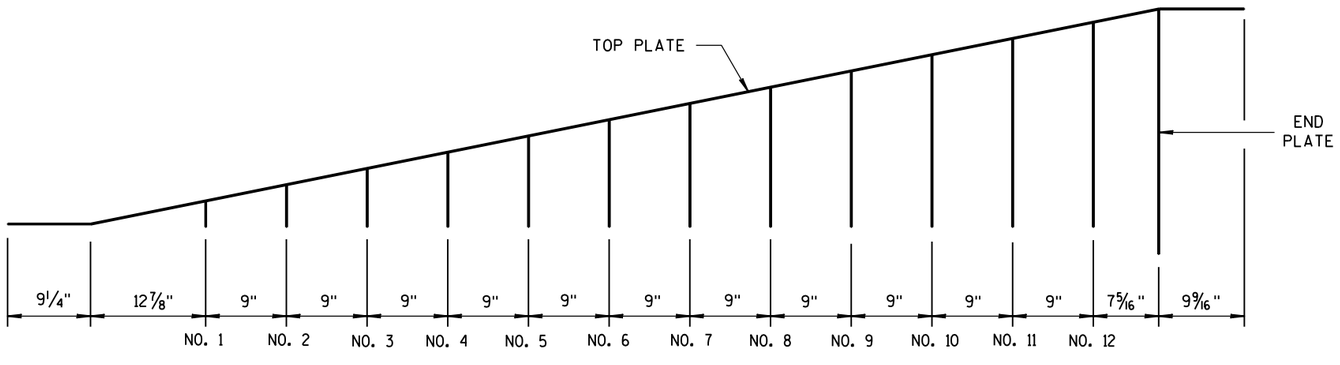
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

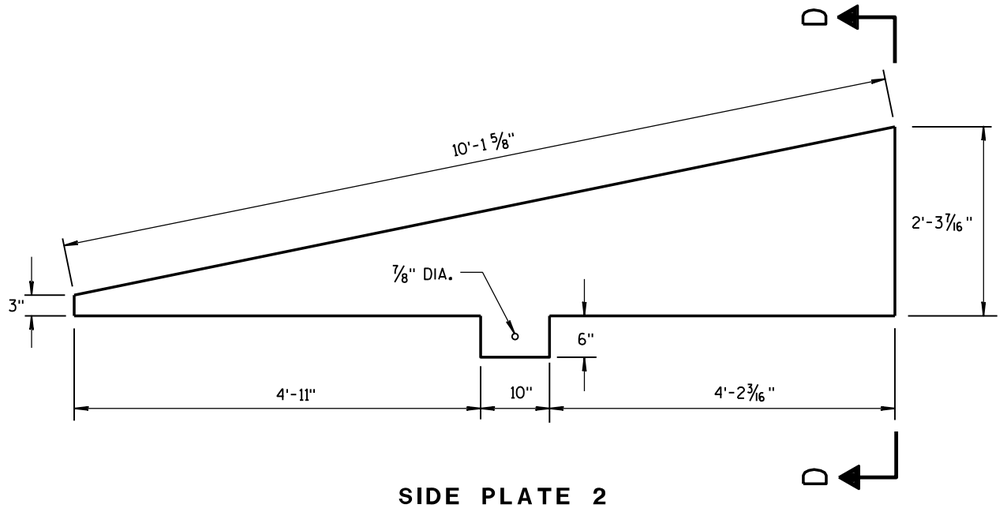
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

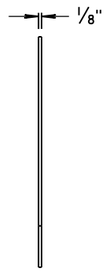
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

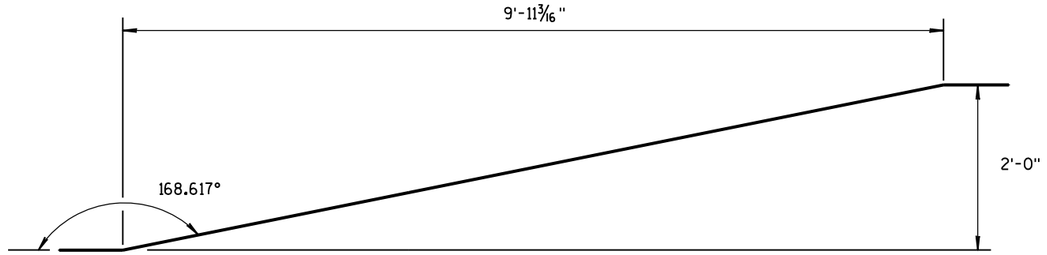
S.D.D. 14 B 7-15h



SIDE PLATE 2

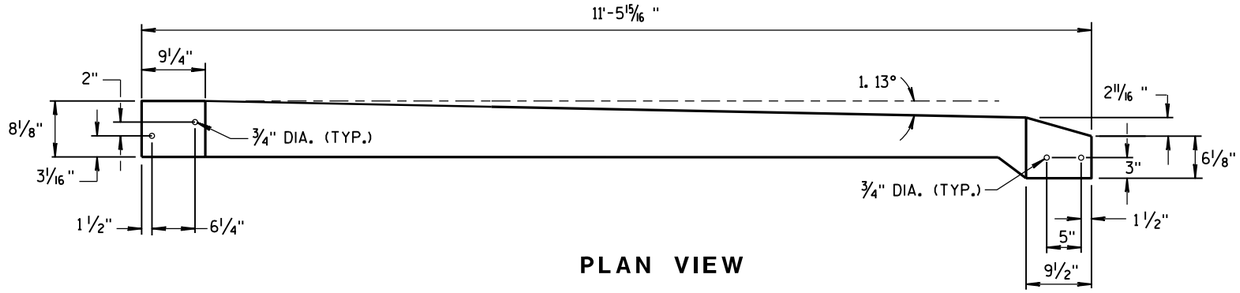


END VIEW



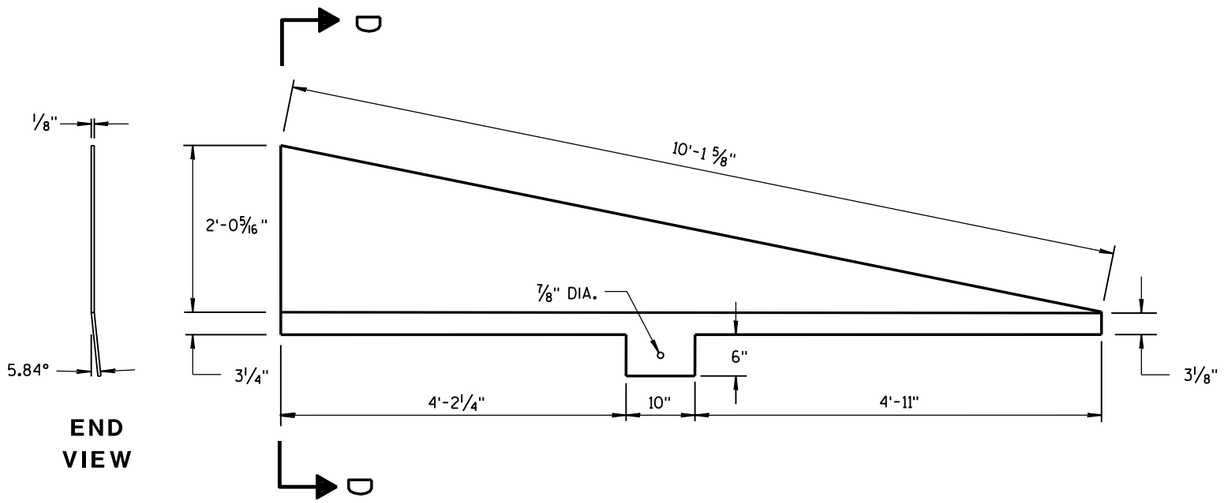
SIDE VIEW

TOP PLATE



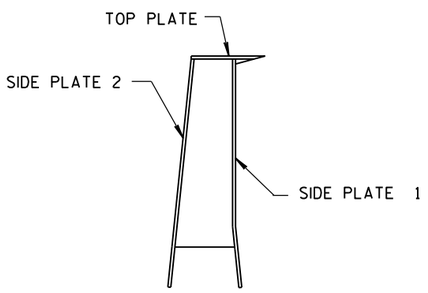
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

UNIT SUPERV 310 ENT

6

S.D.D. 14 B 7-15i

6

S.D.D. 14 B 7-15i

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

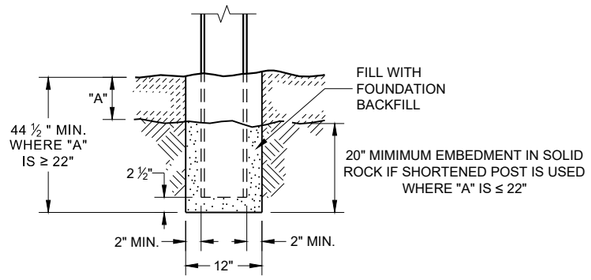
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

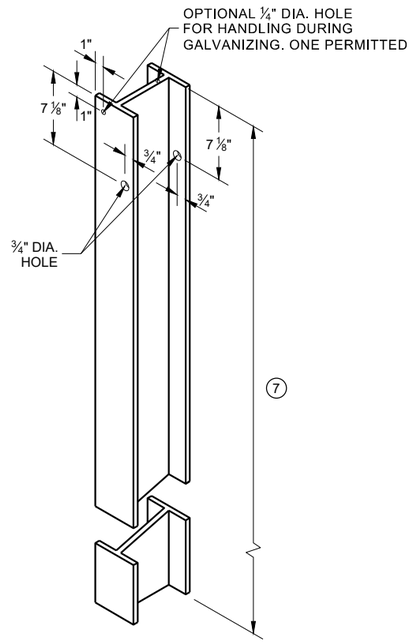
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

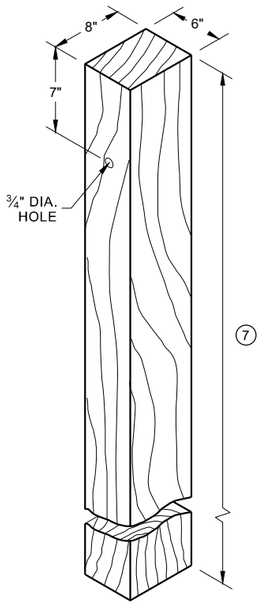
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



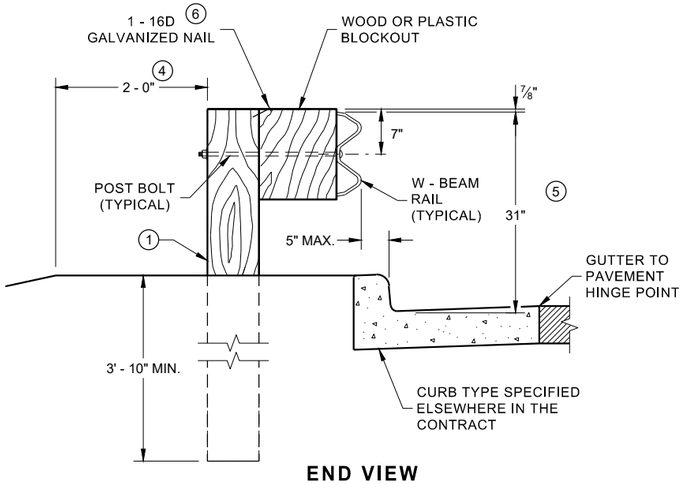
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



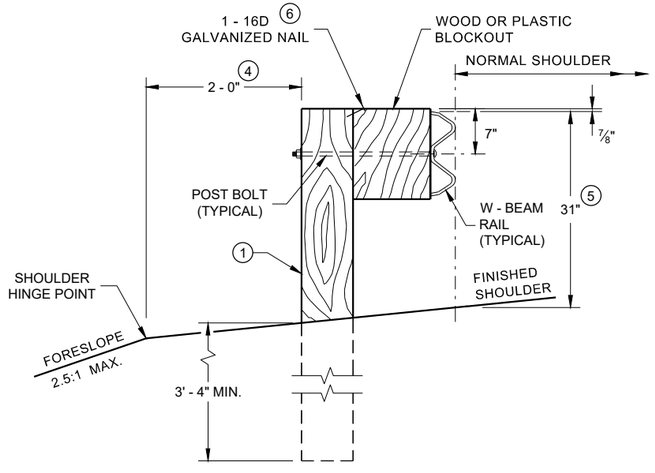
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



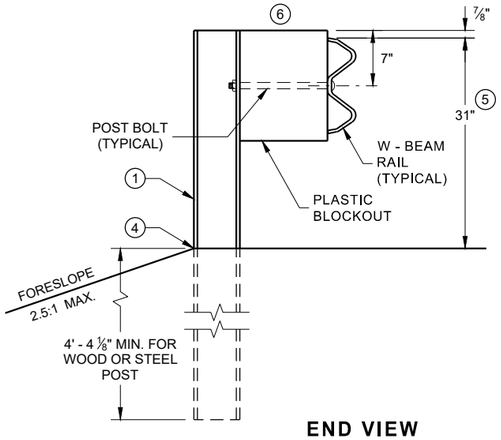
WOOD POST (6" X 8") NOMINAL (1)



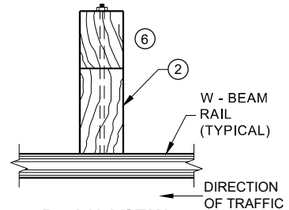
END VIEW
LOCATED ALONG A CURBED ROADWAY



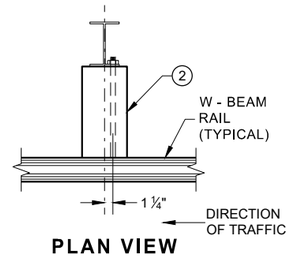
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



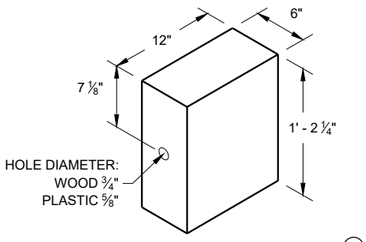
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



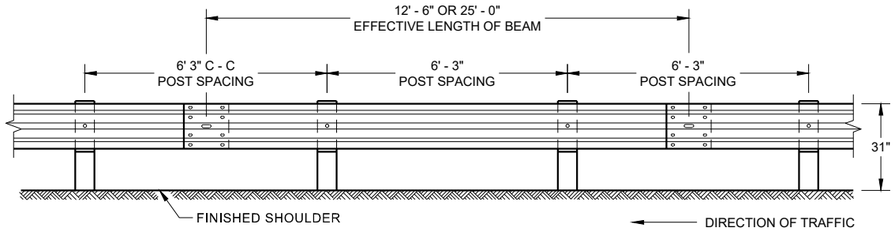
WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

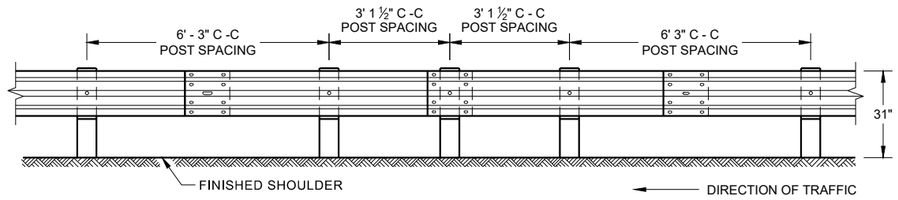
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B42 - 07a

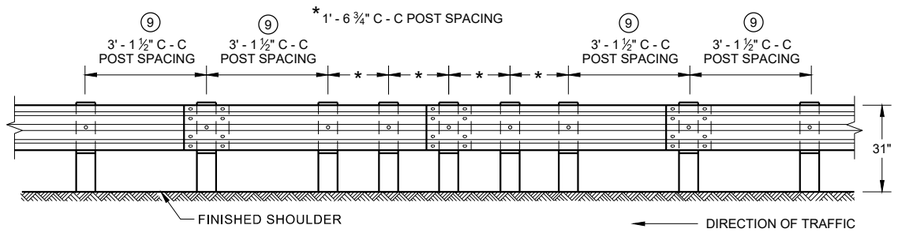
SDD 14B42 - 07a



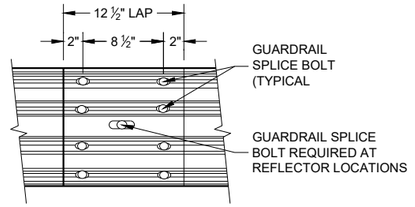
FRONT VIEW
POST SPACING STANDARD INSTALLATION



FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



FRONT VIEW
QUARTER POST SPACING (QS)



FRONT VIEW
MID-SPAN BEAM SPLICE

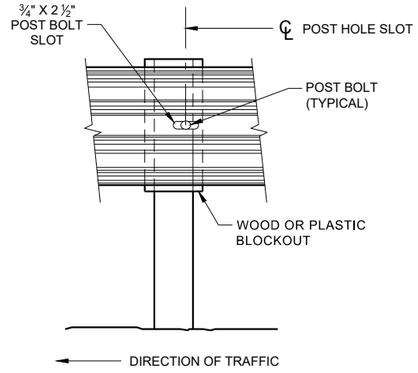
GENERAL NOTES

(8) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

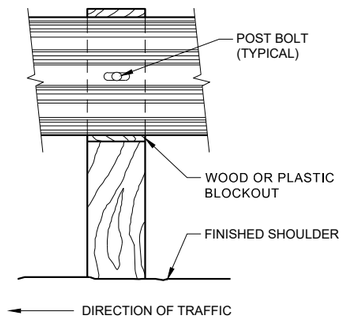
(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

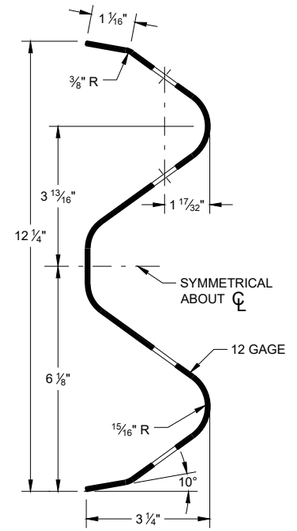
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



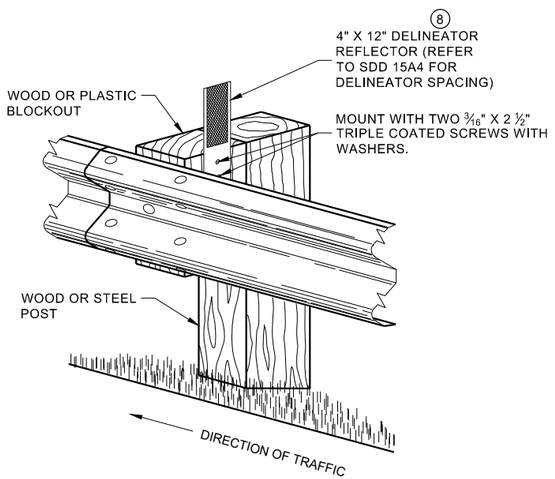
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



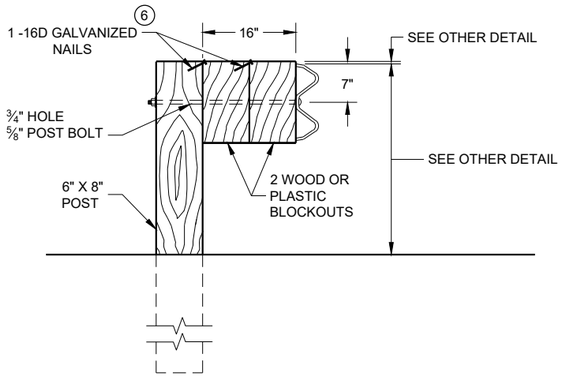
ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B42 - 07b

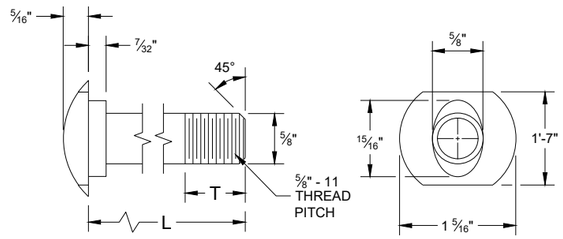


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

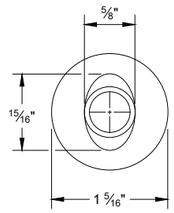
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

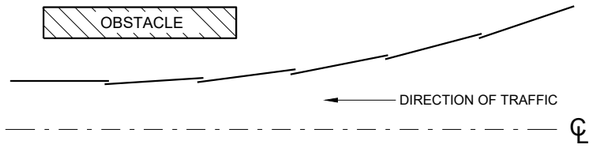


POST BOLT TABLE

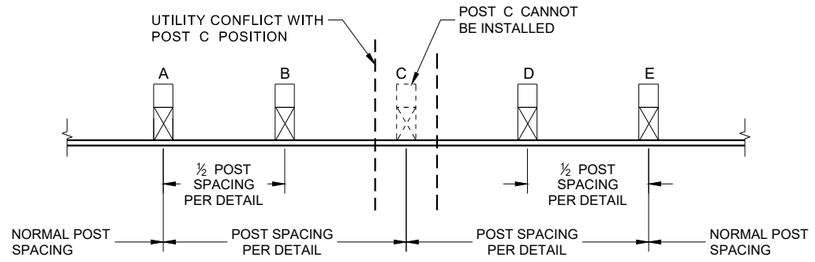
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



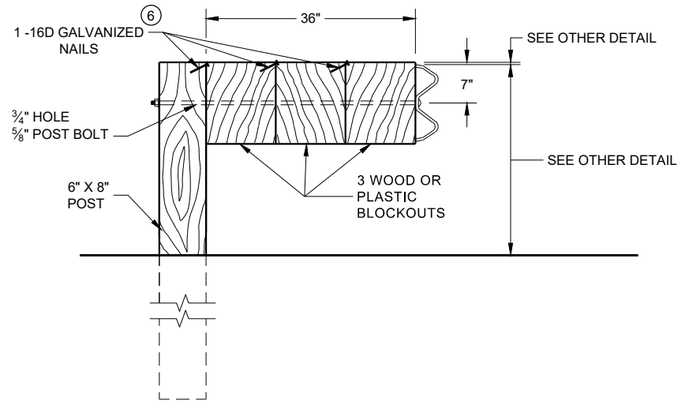
ALTERNATE BOLT HEAD



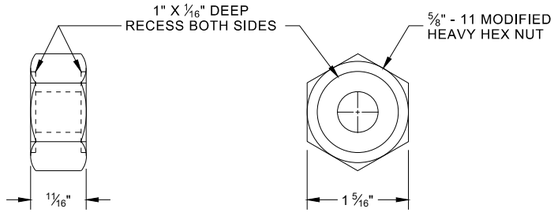
PLAN VIEW
BEAM LAPPING DETAIL



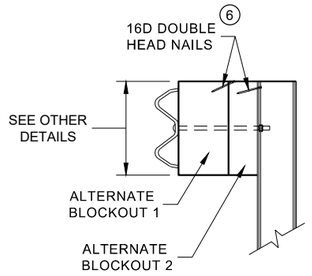
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



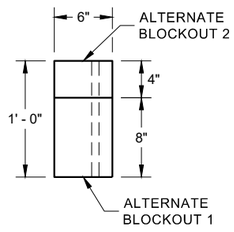
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

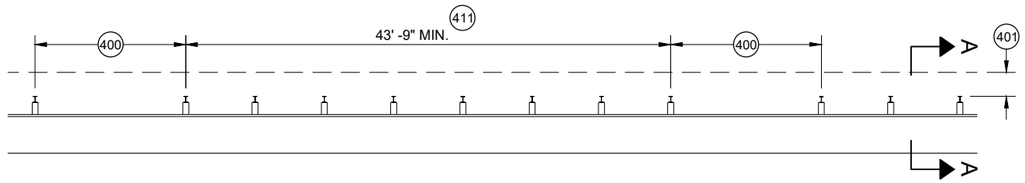
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

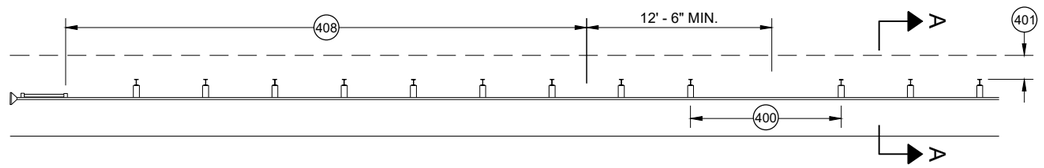
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

6

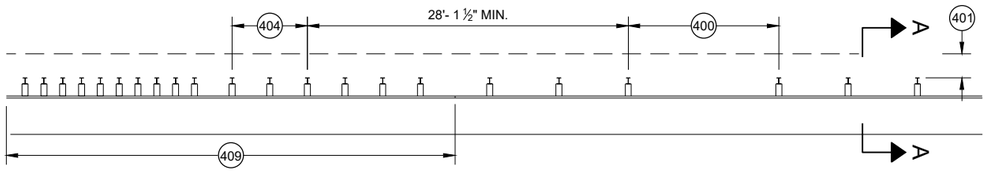
SDD 14B42 - 07c



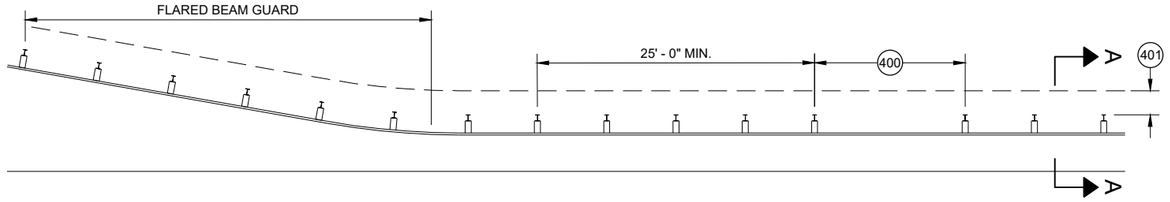
MISSING POST IN MGS GUARDRAIL



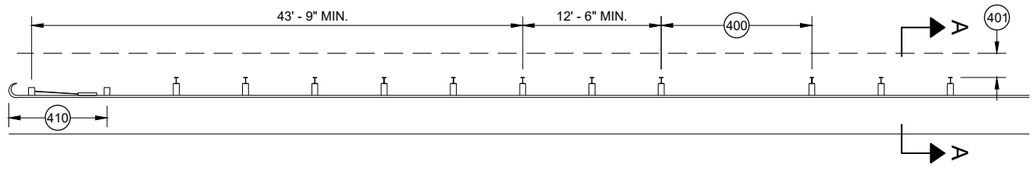
MISSING POST IN MGS GUARDRAIL NEAR EAT



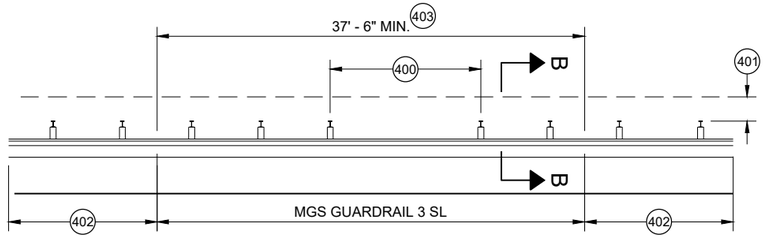
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

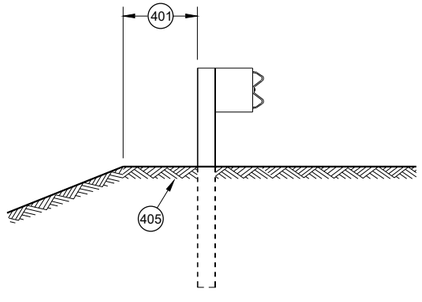


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

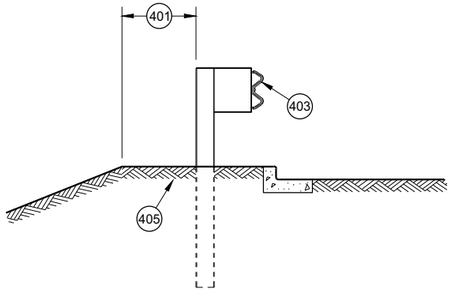


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

400 MAX SPAN 12' - 6"
401 2' MIN.
402 MGS GUARDRAIL 3
403 NESTING BEAM GUARD
404 ASYMMETRIC TRANSITION
405 SOIL WELL DRAINED AND COMPACTED
406 SEE OTHER DRAWINGS IN THIS SDD
407 SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
408 SEE SDD 14B44
409 SEE SDD 14B45
410 SEE SDD 14B47
411 MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B42 - 07d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

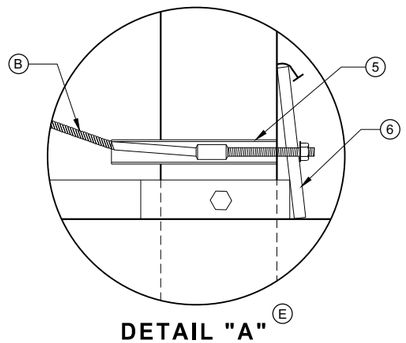
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

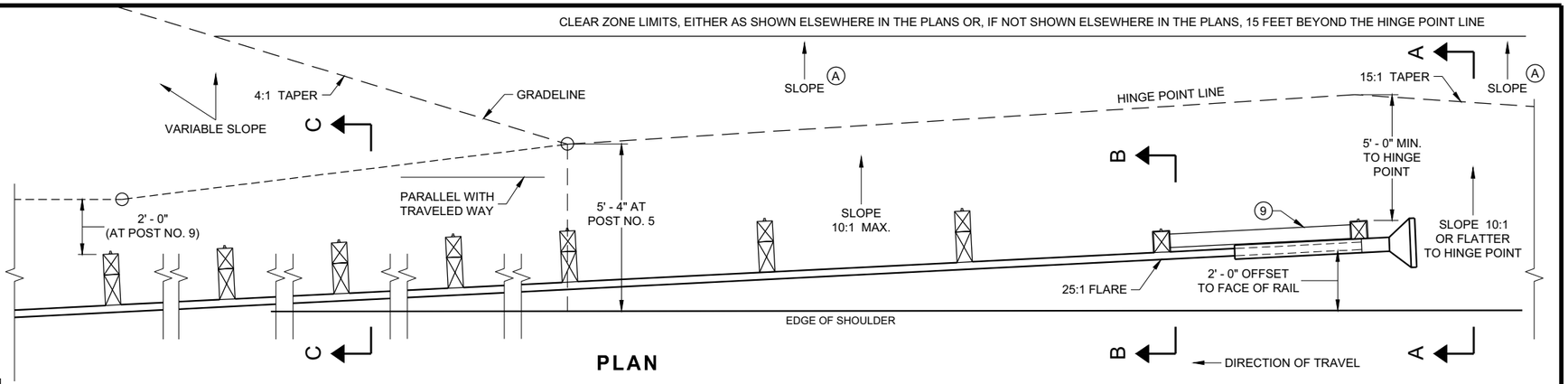
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

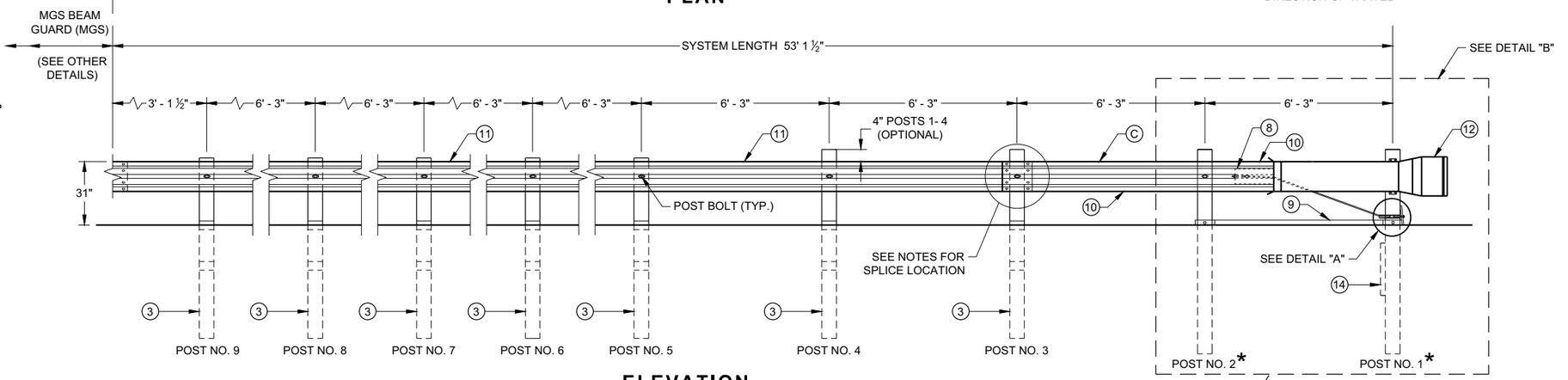
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



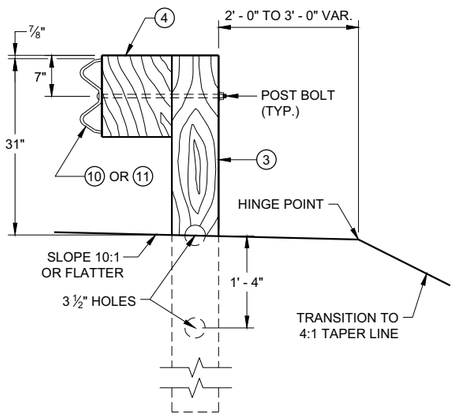
DETAIL "A" (E)



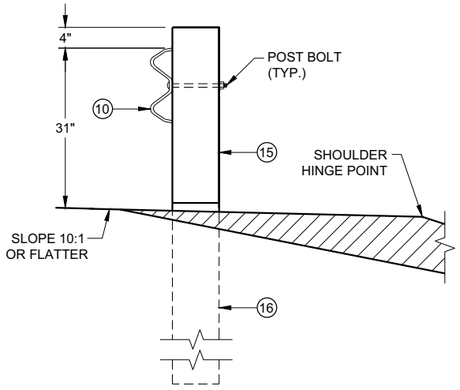
PLAN



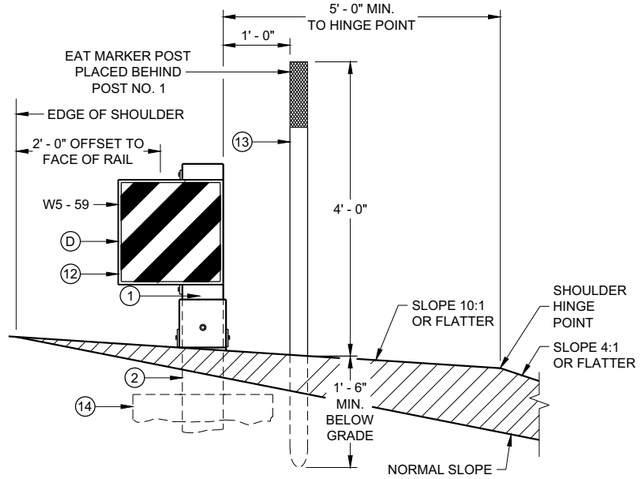
ELEVATION



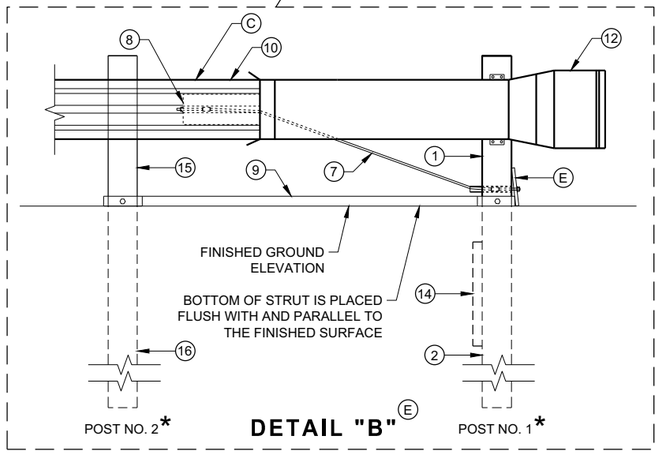
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



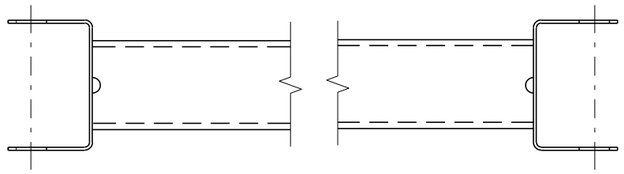
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

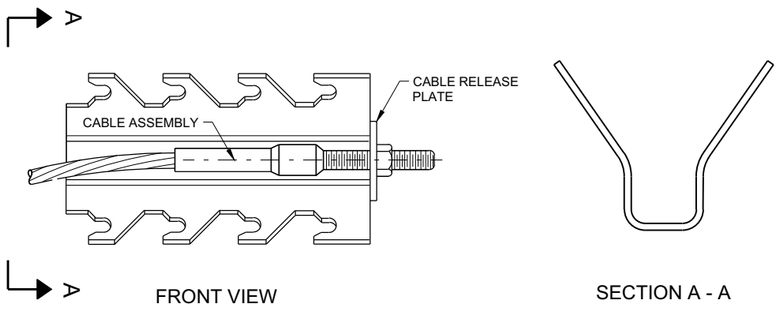
SDD 14B44 - 04a



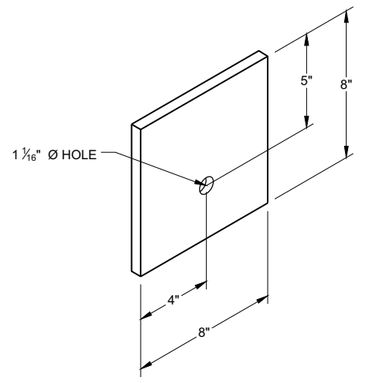
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑨ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

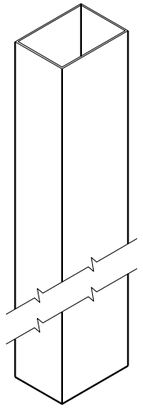
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

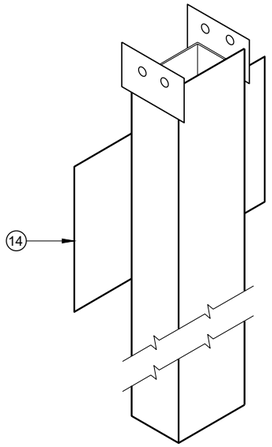
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

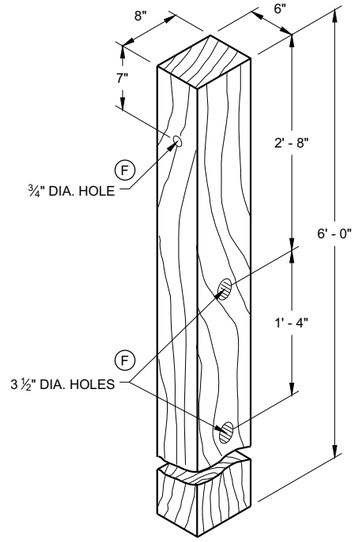
SDD 14B44 - 04b



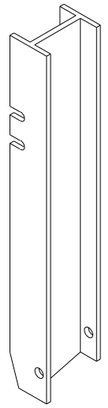
UPPER POST NO. 1 (1) (E)



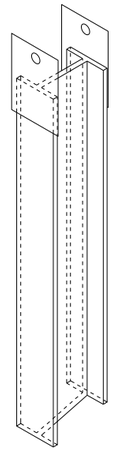
LOWER POST NO. 1 (2) (E)



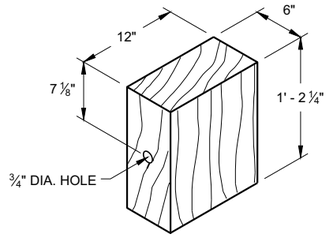
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



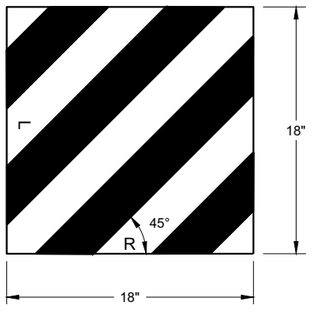
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

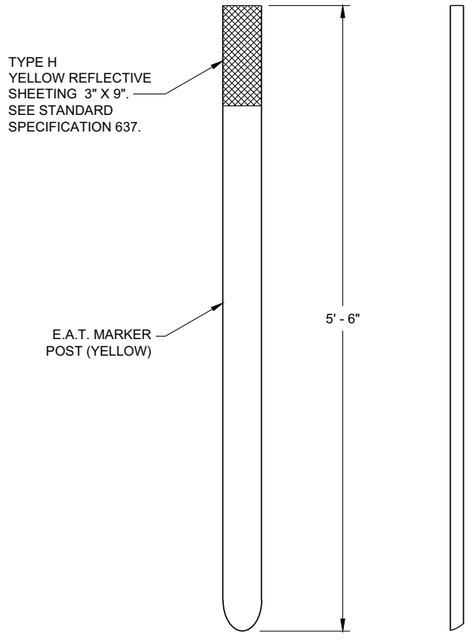


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



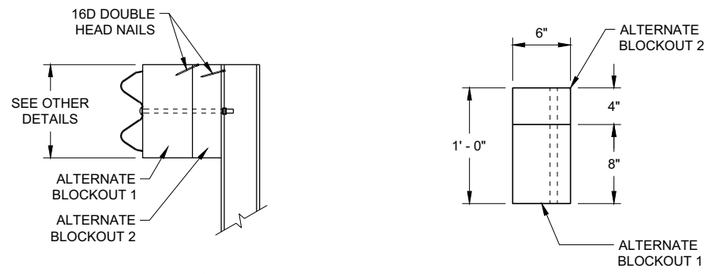
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

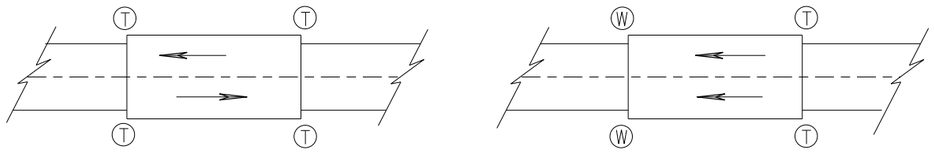
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE UNIT SUPERVISOR
FHWA

6

SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

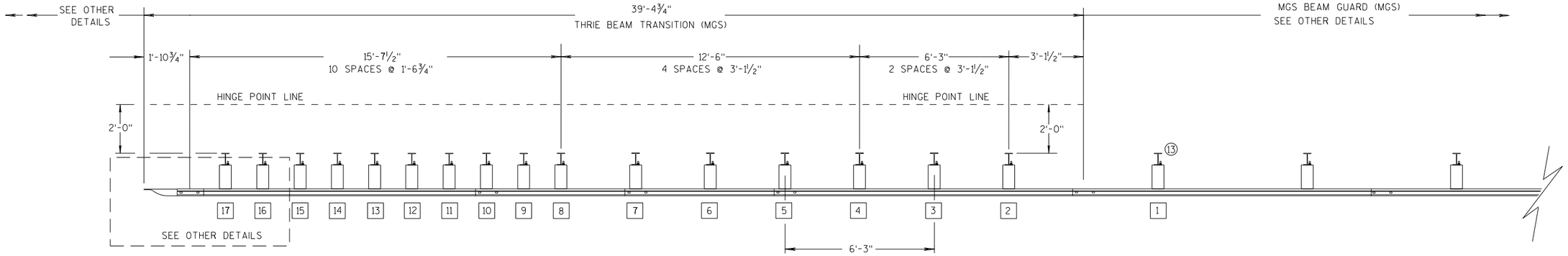
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

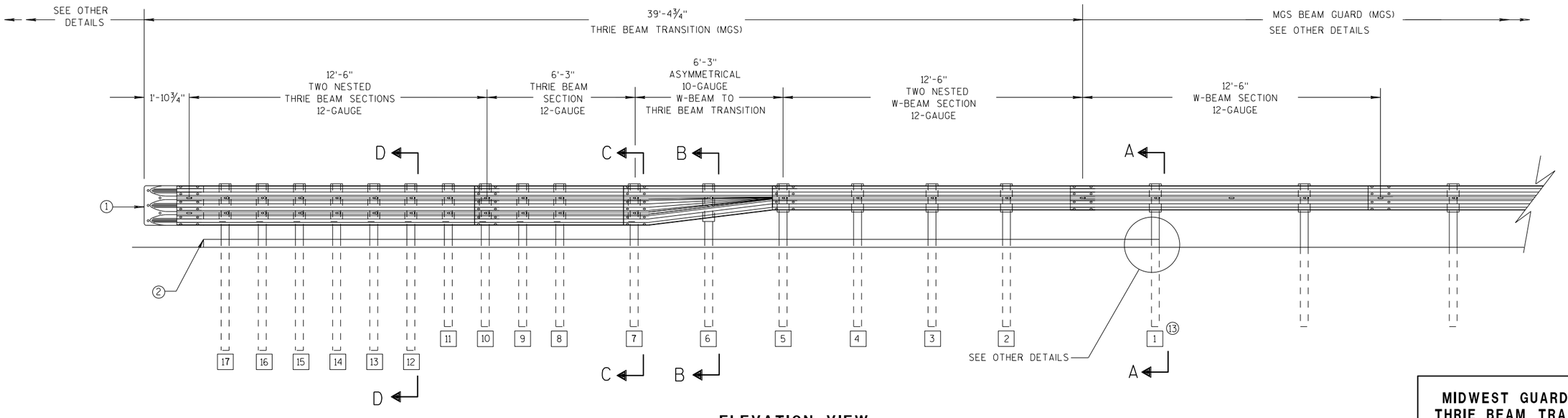
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 14 B 45-5a

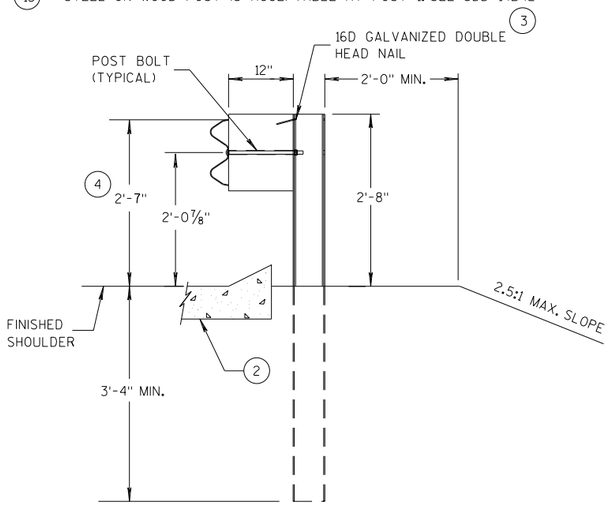
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

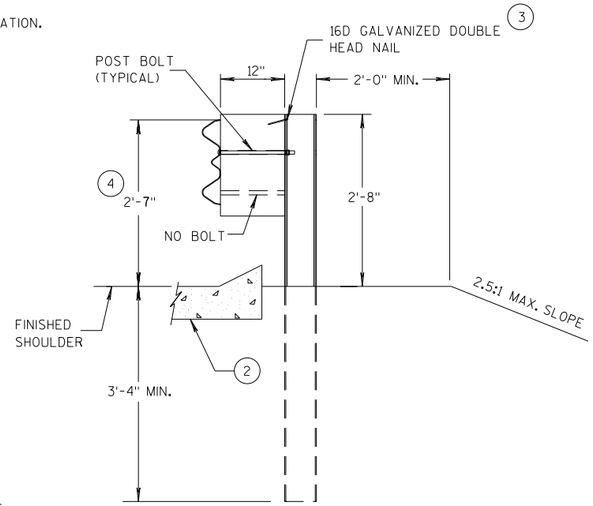
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



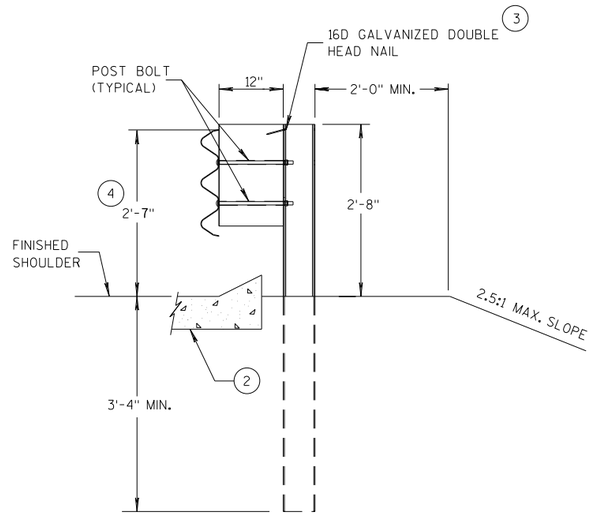
SECTION A-A (13)

POSTS 1-5



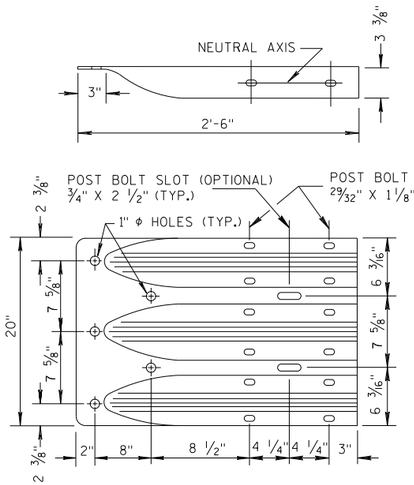
SECTION B-B

POST 6

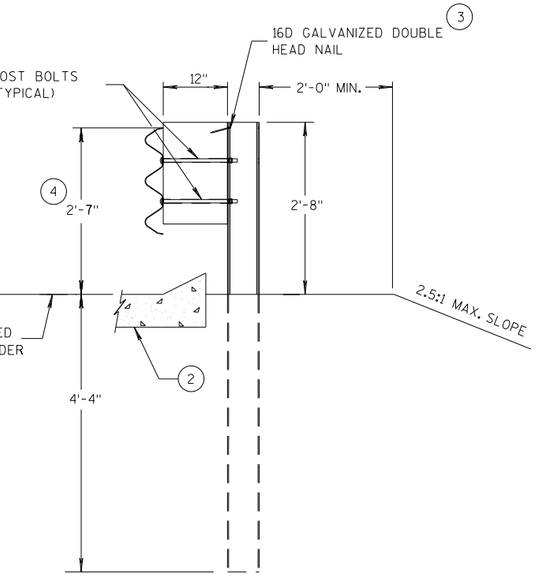


SECTION C-C

POSTS 7-11

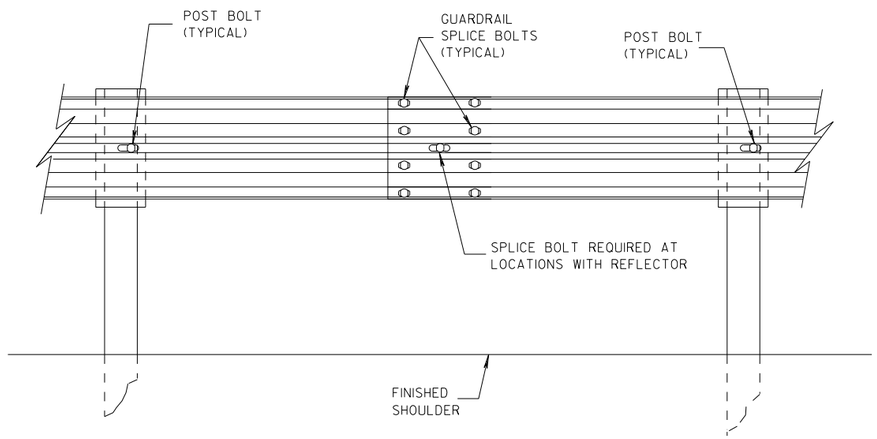


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

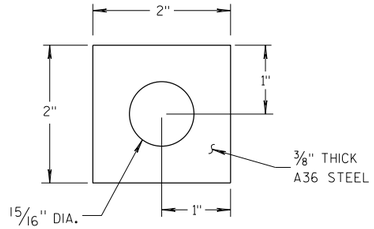
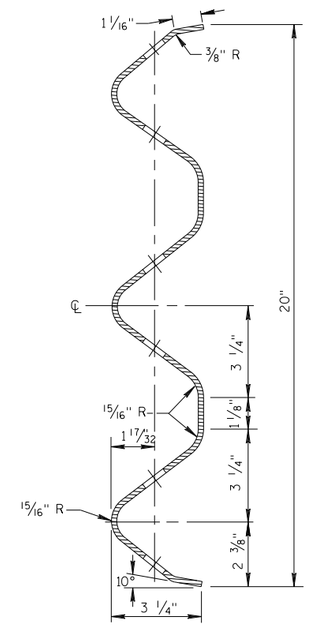


PLATE WASHER DETAIL

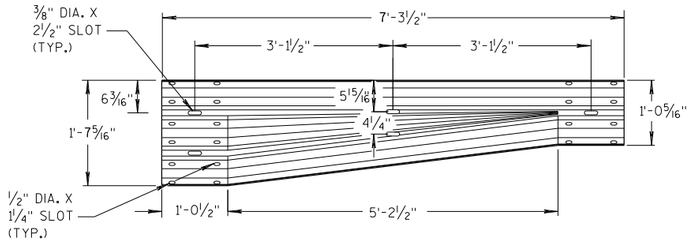


SECTION THRU THRIE BEAM RAIL ELEMENT

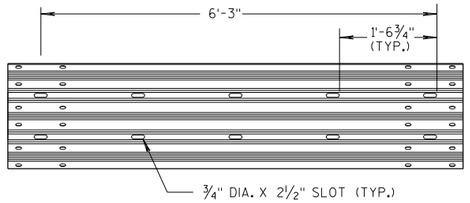
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

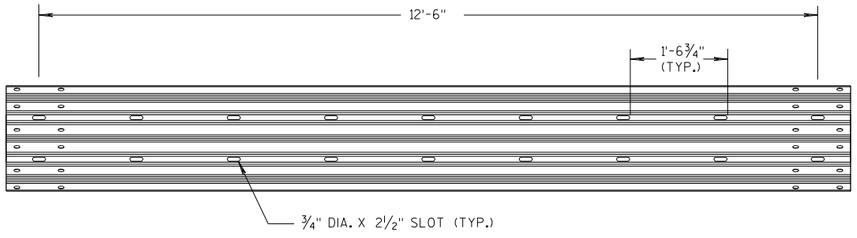
6
S.D.D. 14 B 45-5b



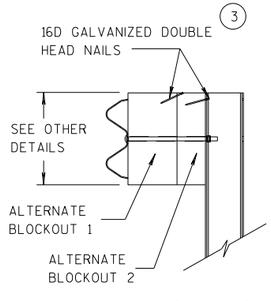
W-BEAM TO THRIE BEAM TRANSITION SECTION



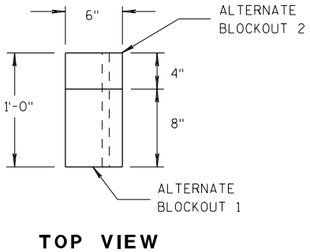
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

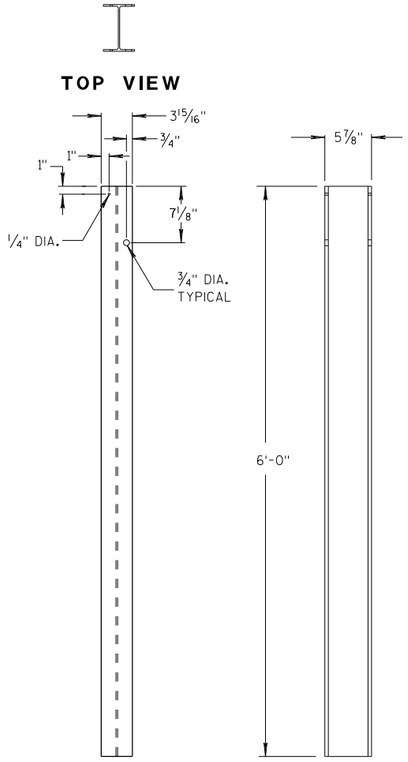


SIDE VIEW



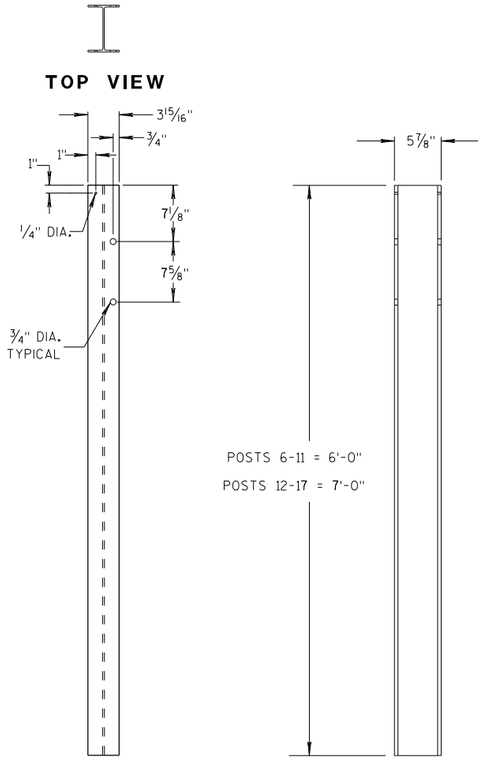
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



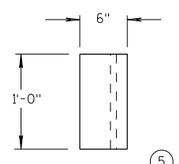
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

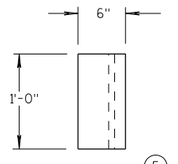


FRONT VIEW SIDE VIEW

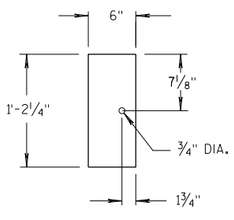
STEEL POSTS 6-17



TOP VIEW (5)

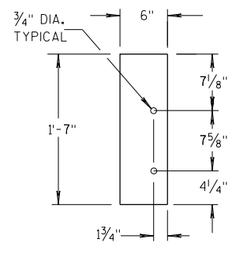


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

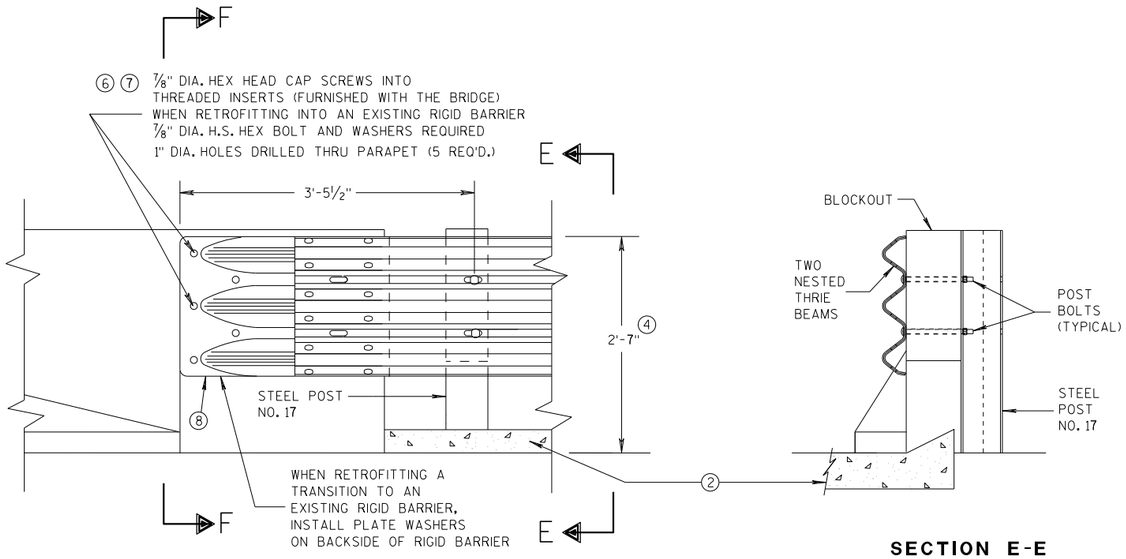
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 320

6
S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

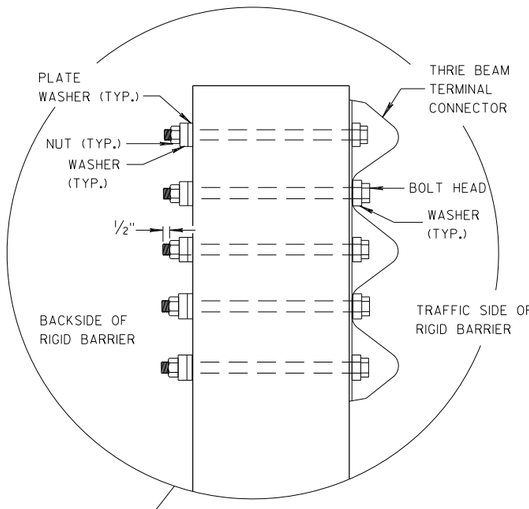
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

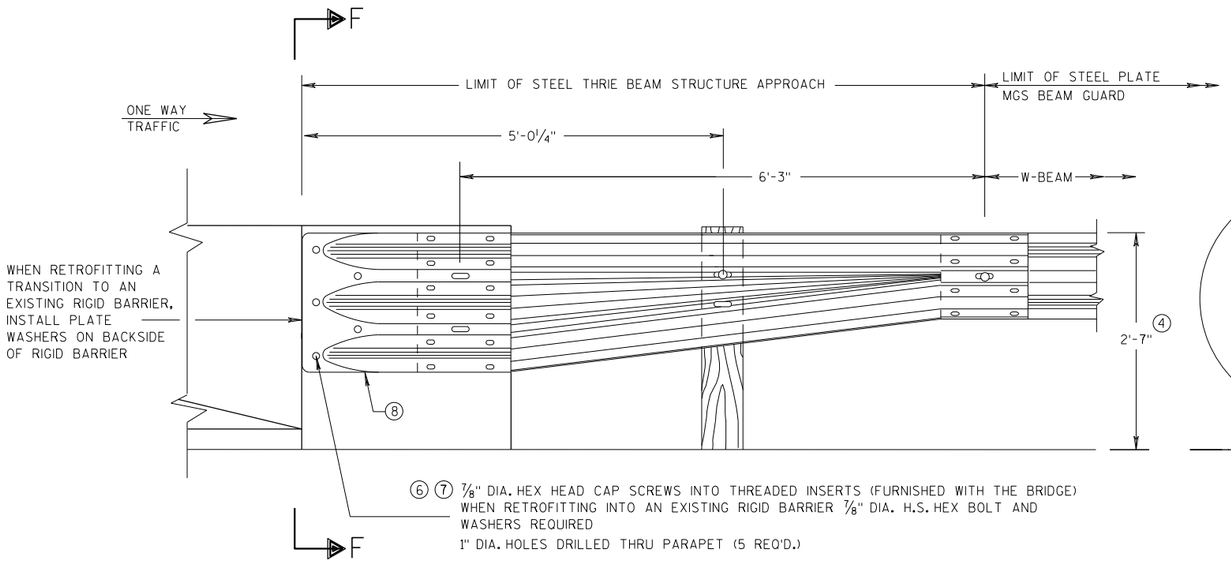
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

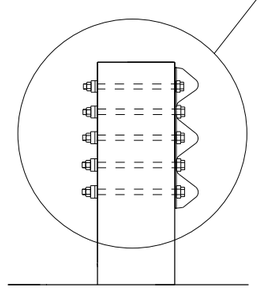
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

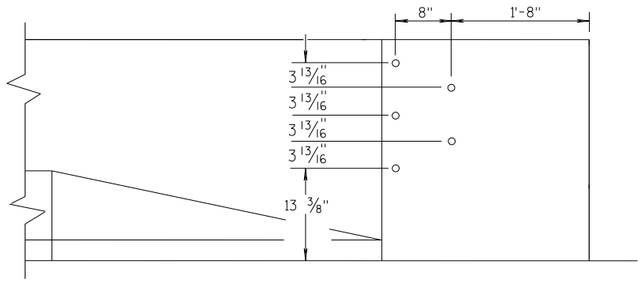




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D[illegible] UNIT SUPERVI[illegible] — [illegible]NT
FHWA

6

S.D.D. 14 B 45-5d

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

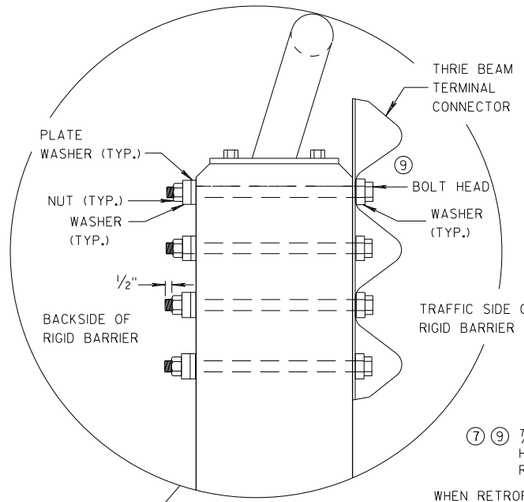
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

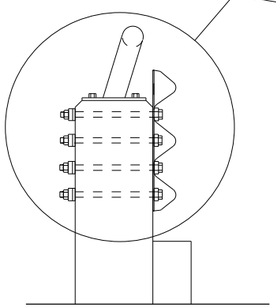
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

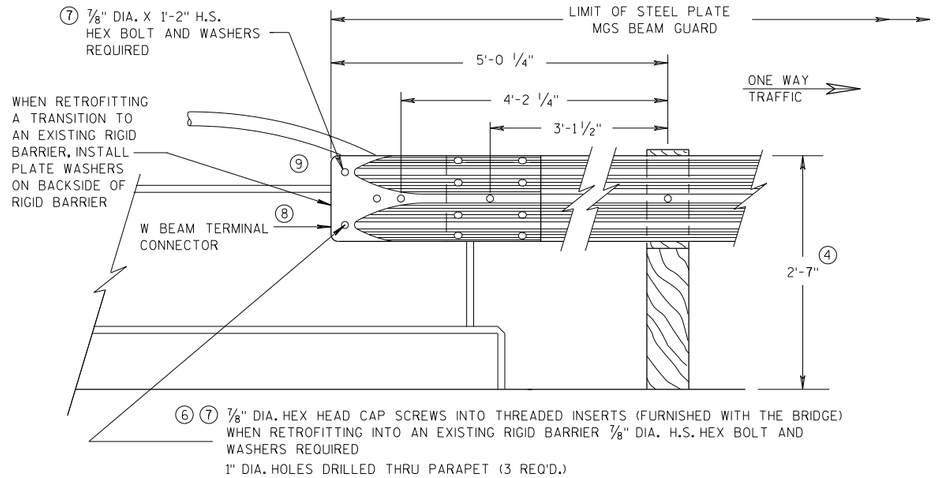
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





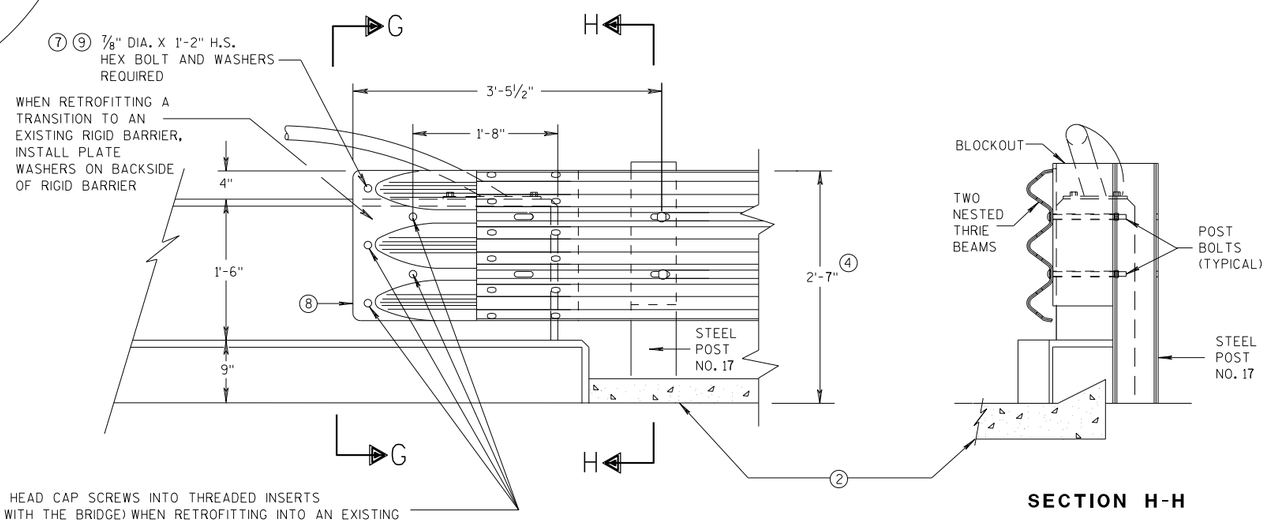
SECTION G-G



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

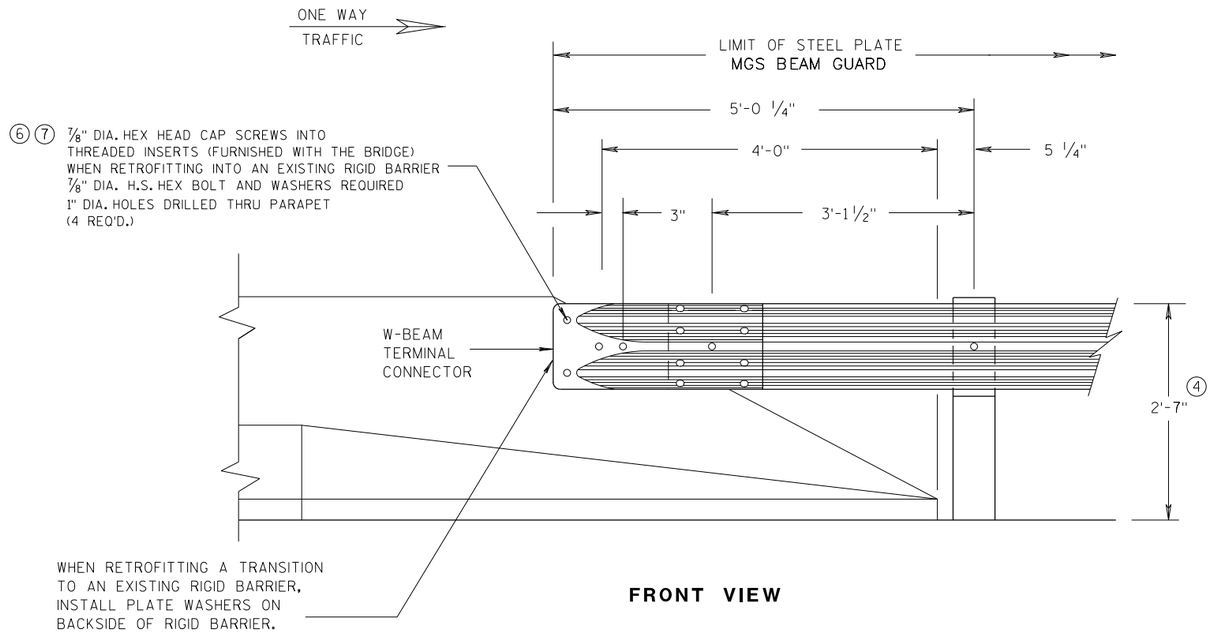
APPROVED
07/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D UNIT SUPERVI
NT
FHWA

6

S.D.D. 14 B 45-5e

6

S.D.D. 14 B 45-5e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

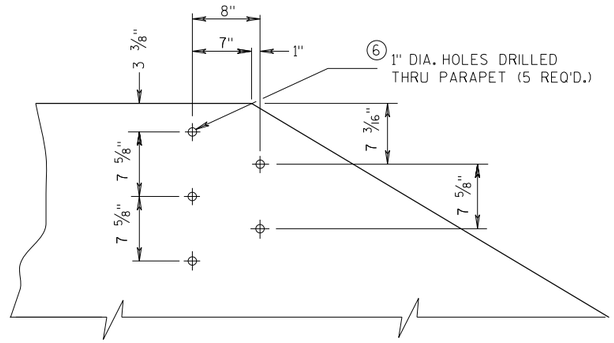
GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

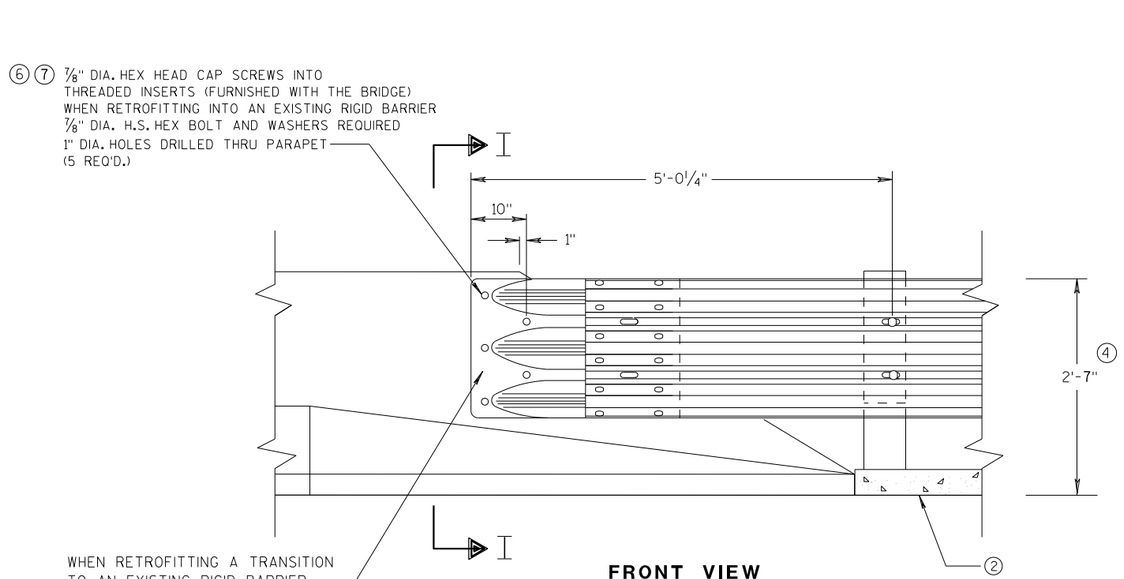
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

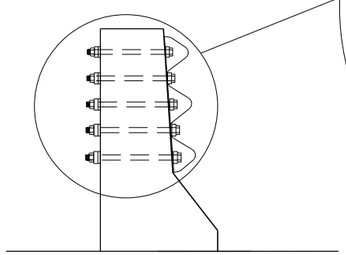
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



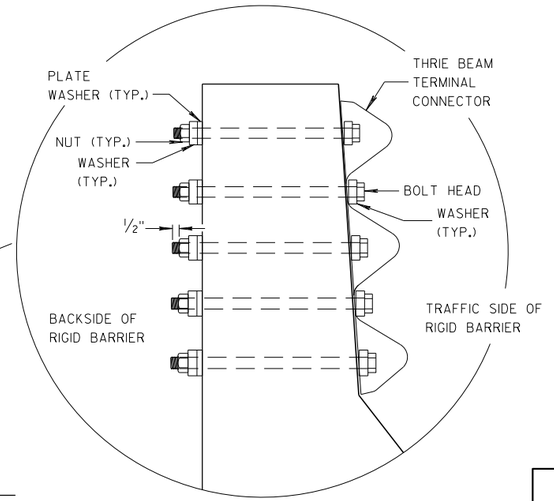
DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

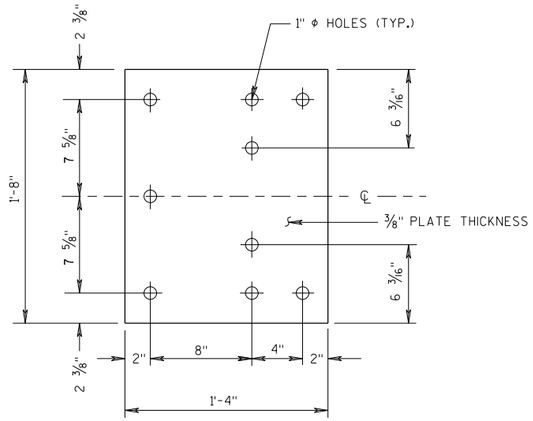
APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS [illegible] UNIT SUPERVI[illegible]ENT
FHWA

6

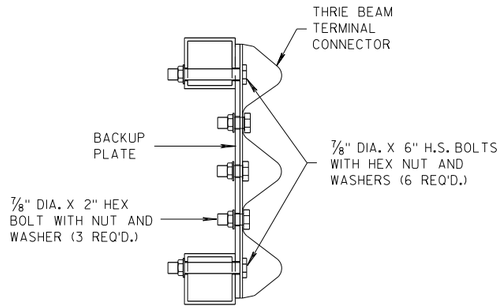
S.D.D. 14 B 45-5f

6

S.D.D. 14 B 45-5f



BACK-UP PLATE DETAIL

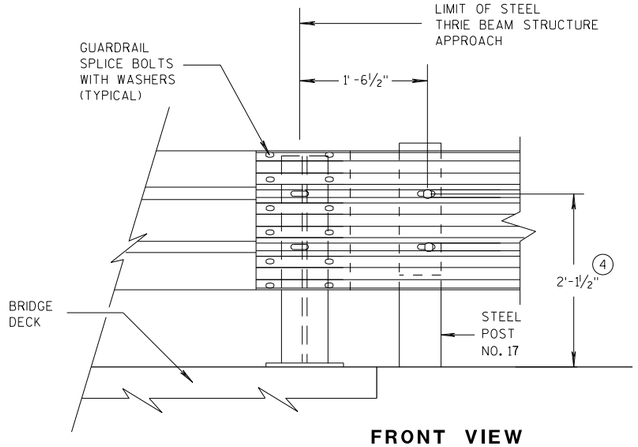


SECTION J-J

GENERAL NOTES

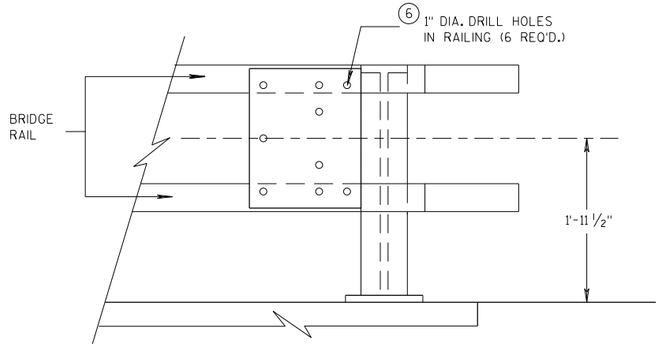
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(6) DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

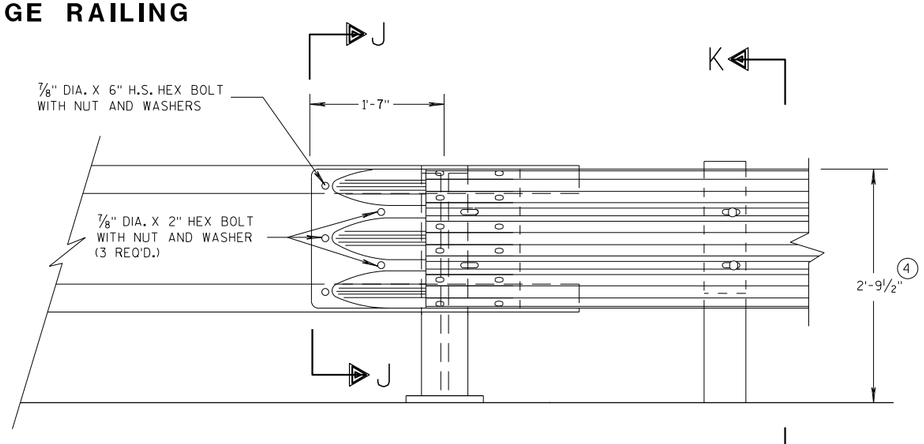


FRONT VIEW

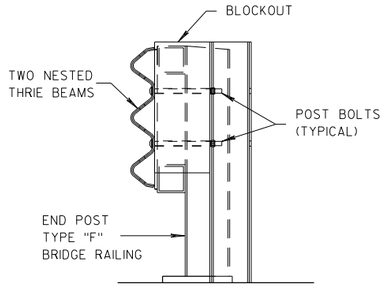
THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 07/2018 — DATE
FHWA

/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

324

6

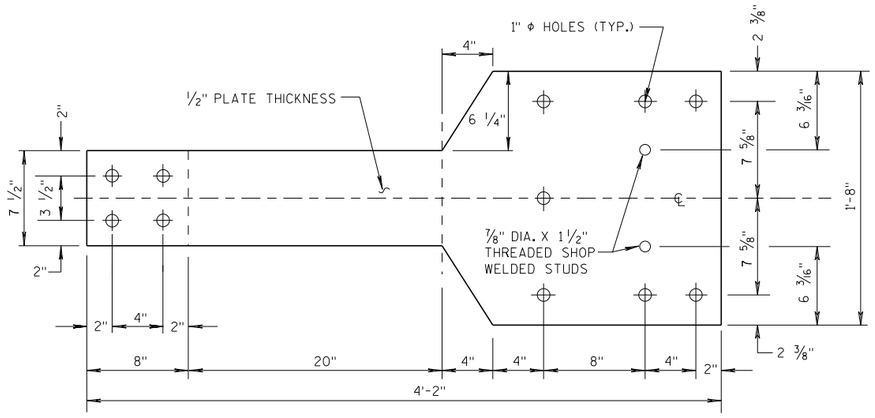
S.D.D. 14 B 45-5g

6

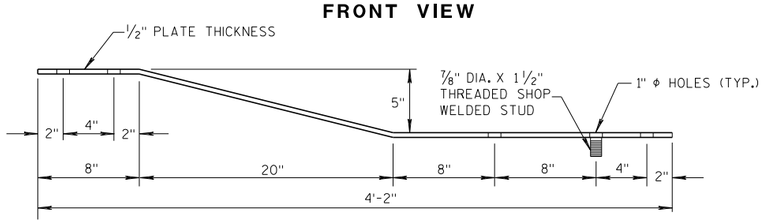
S.D.D. 14 B 45-5g

GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

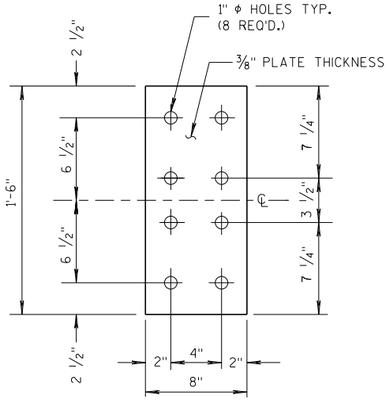


FRONT VIEW



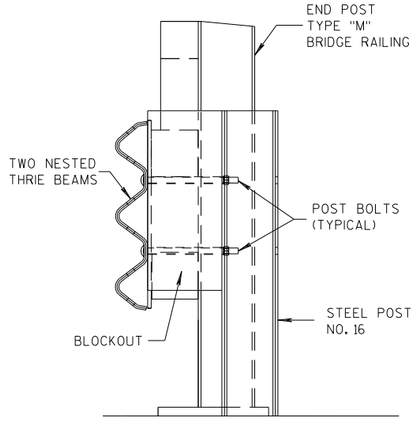
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

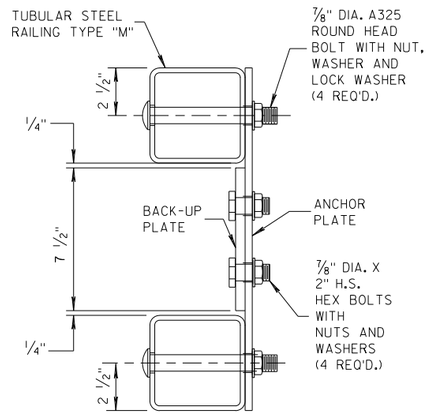


FRONT VIEW

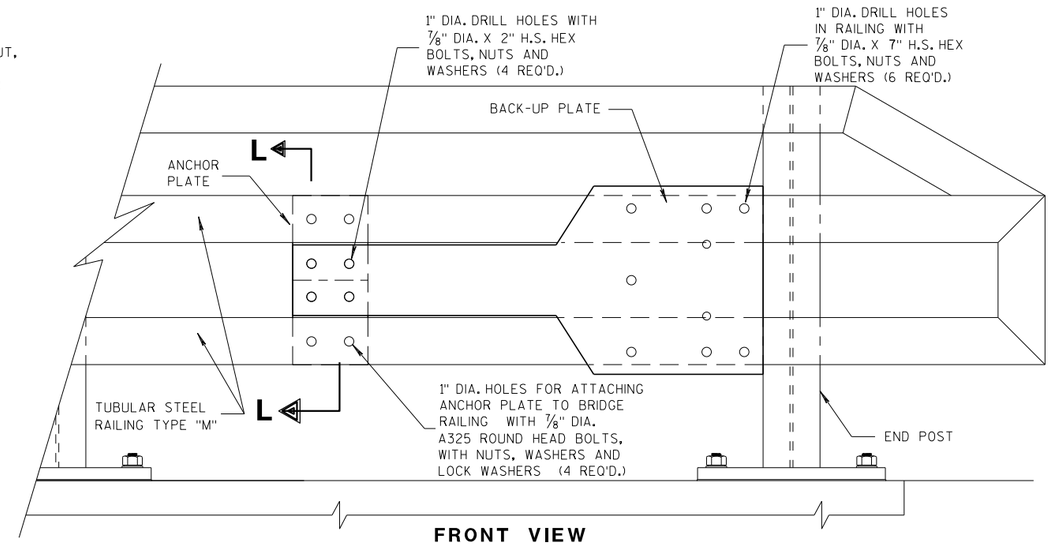
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

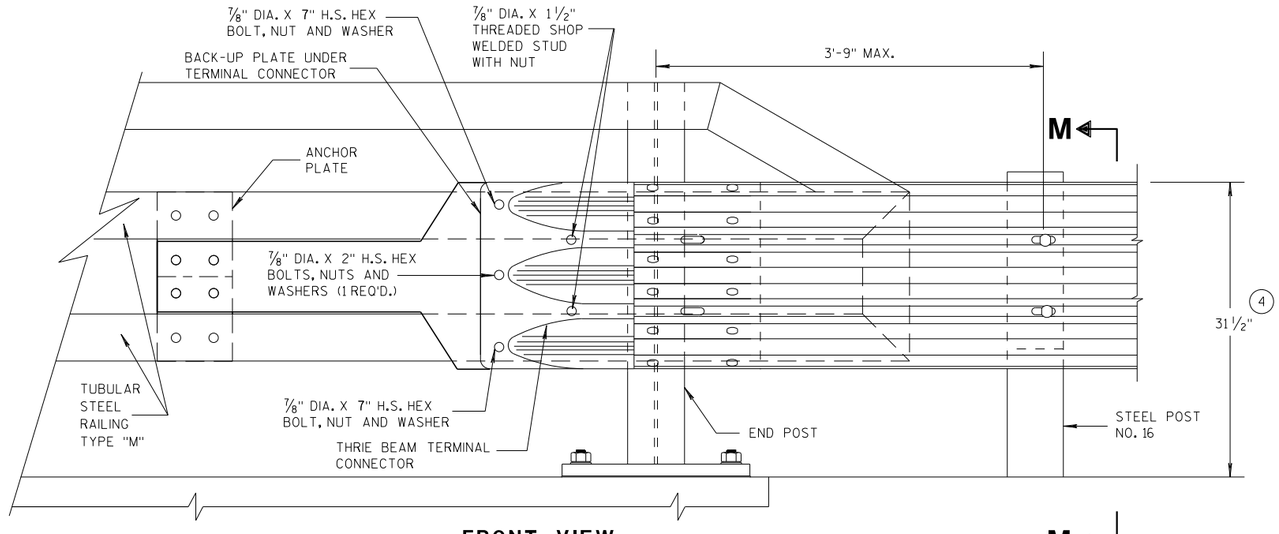


SECTION L-L

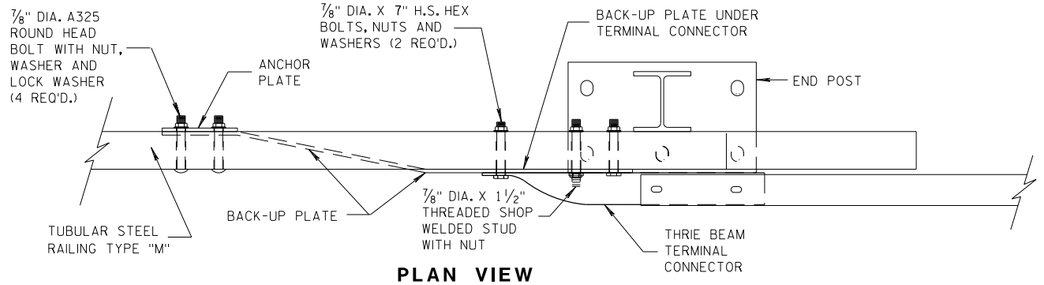


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

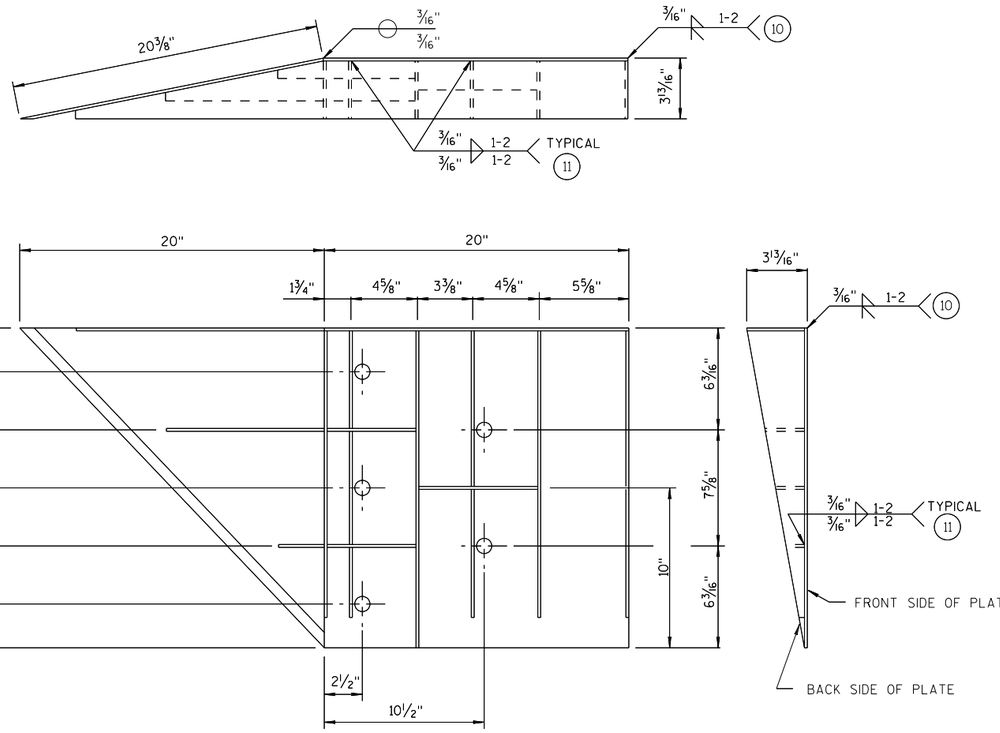
APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6

S.D.D. 14 B 45-5h

6

S.D.D. 14 B 45-5h



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

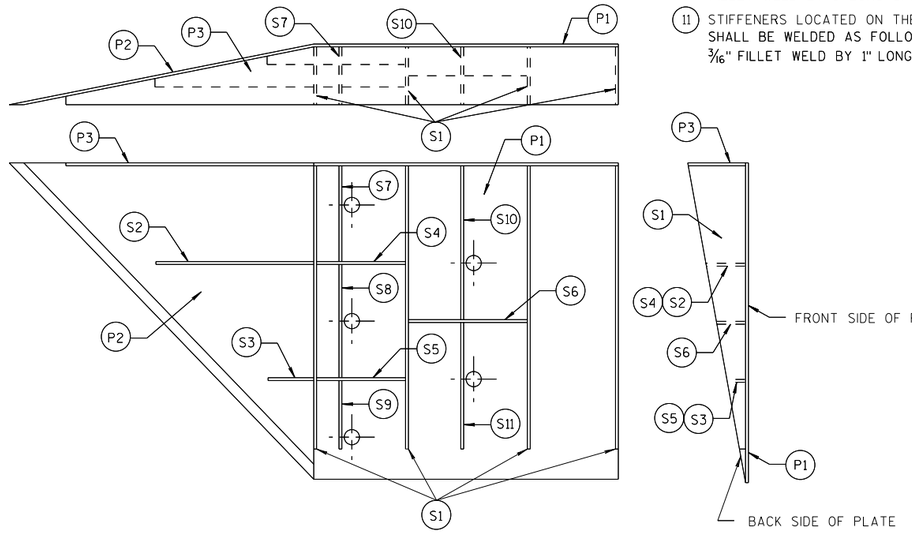


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

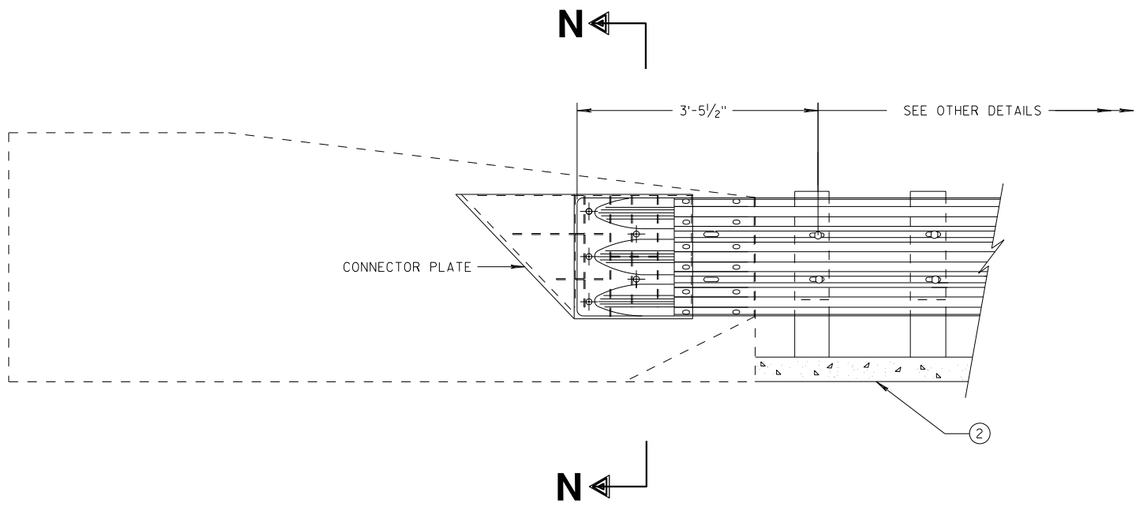
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

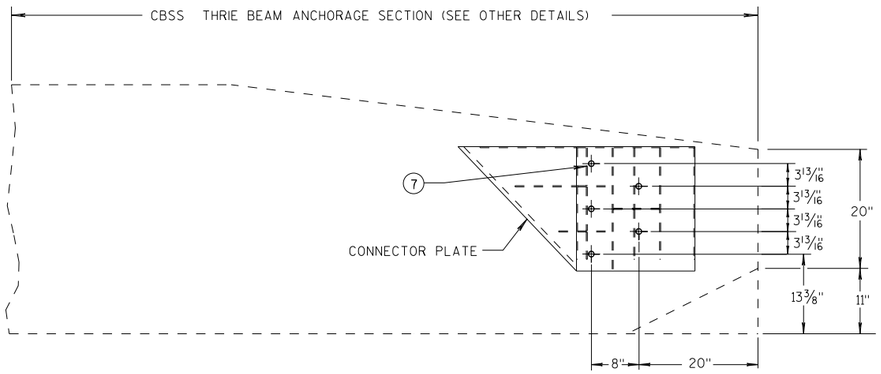
/S/ Rodney Taylor
ROADWAY STANDARDS I
UNIT SUPERVI

6

S.D.D. 14 B 45-5i



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



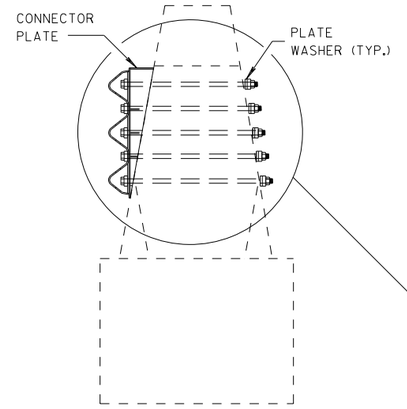
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

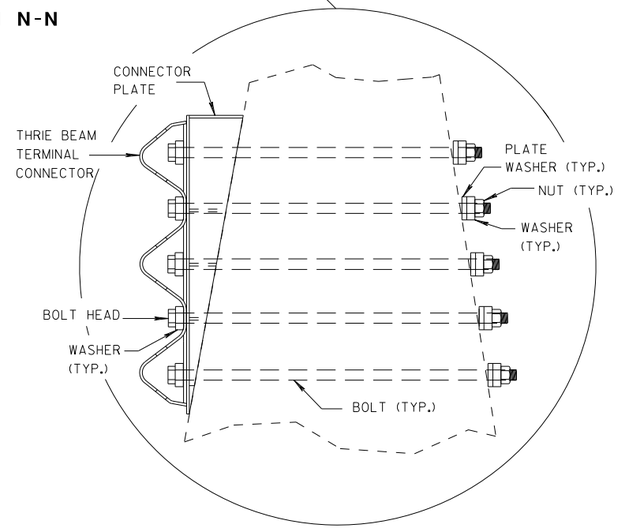
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

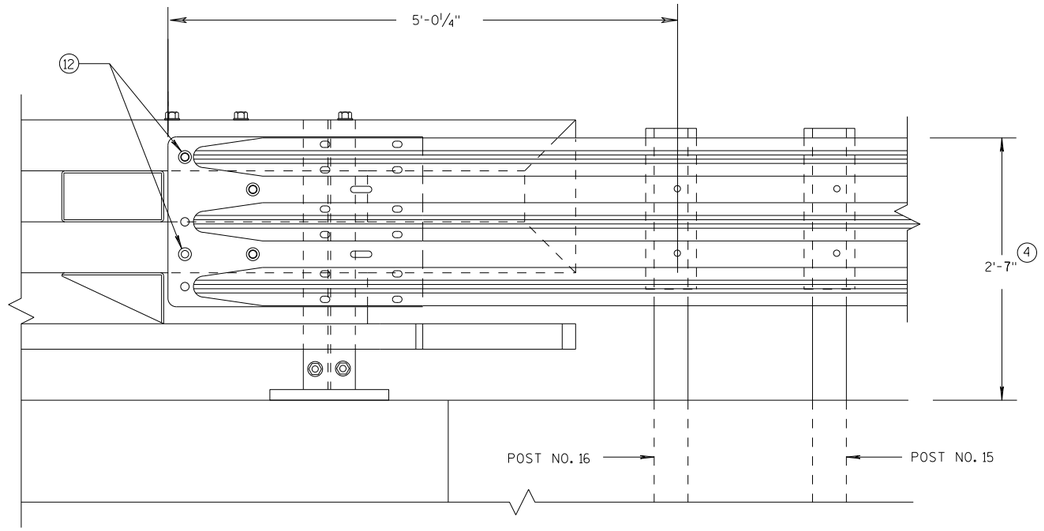
APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DI UNIT SUPERVIS NT
FHWA

6

S.D.D. 14 B 45-5j

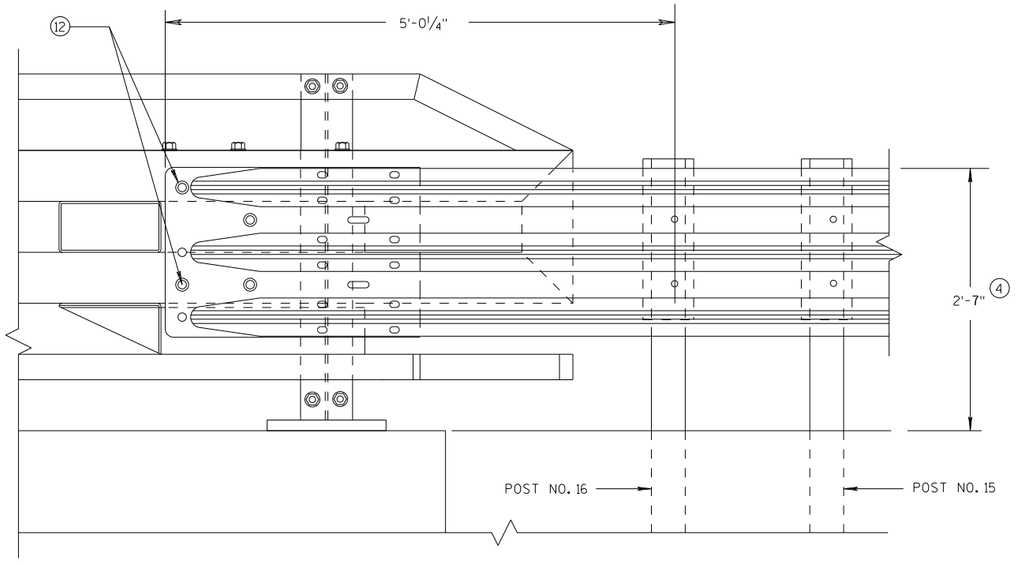
6

S.D.D. 14 B 45-5j



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

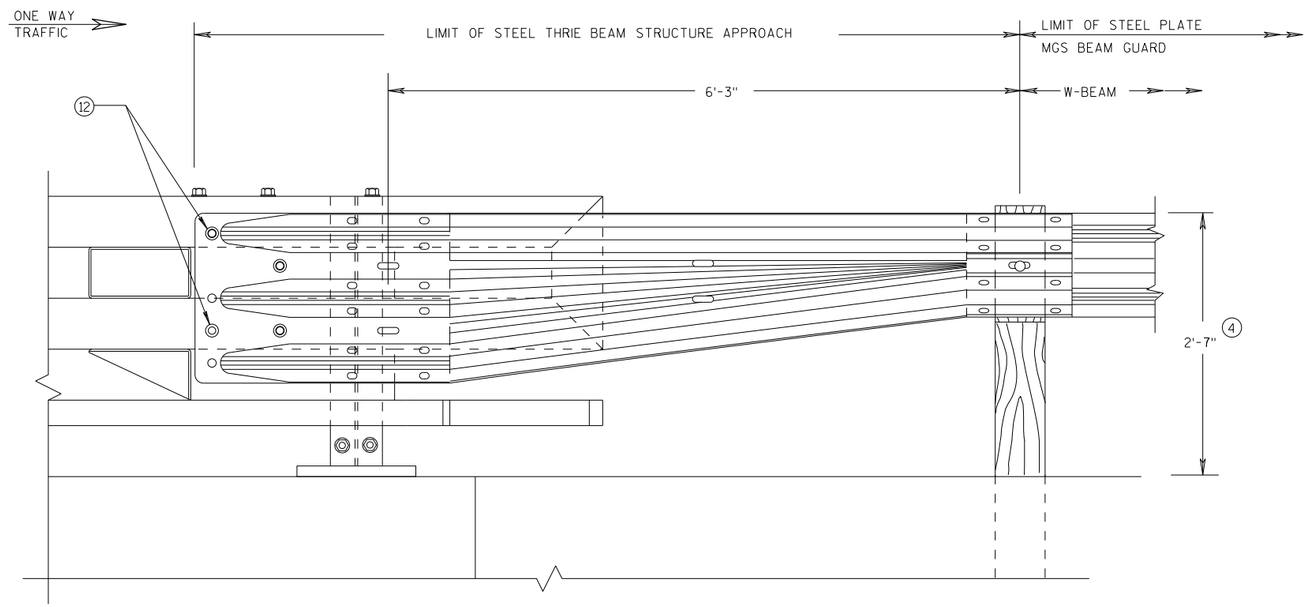
APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D 328 NT
UNIT SUPERVIS
FHWA

6

S.D.D. 14 B 45-5k

6

S.D.D. 14 B 45-5k



FRONT VIEW

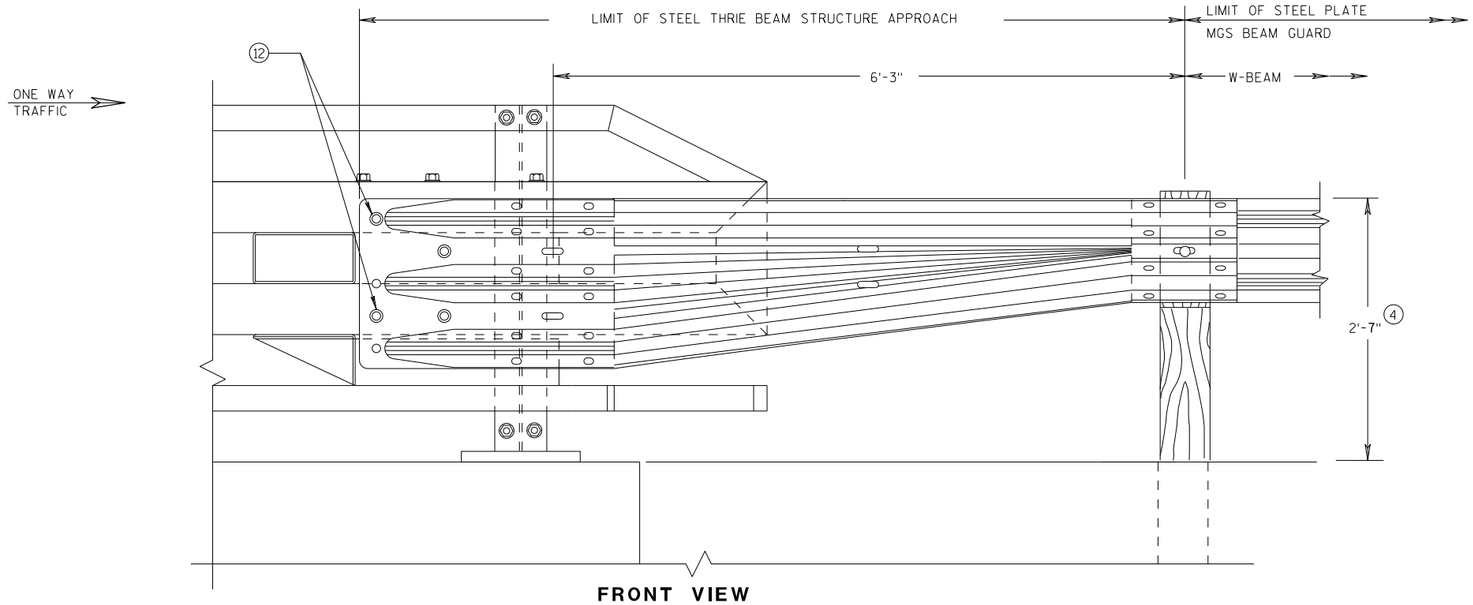
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS D
UNIT SUPERVIS

329

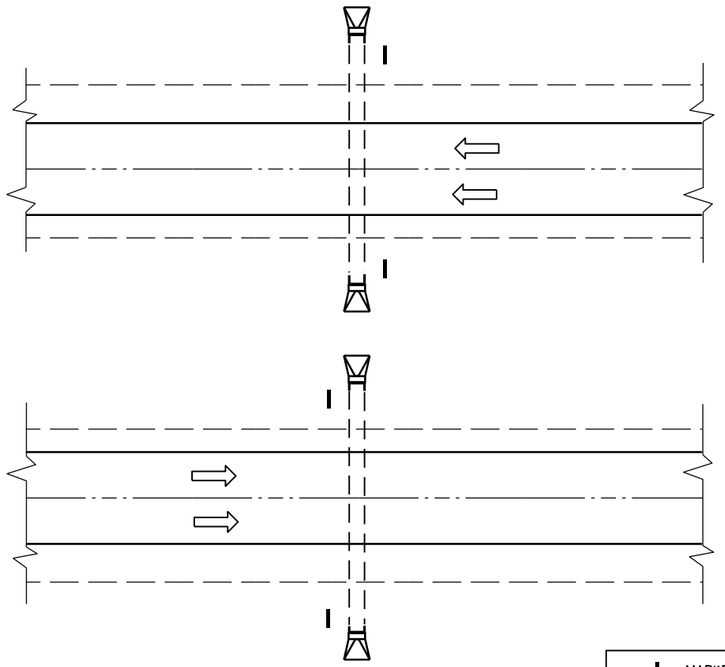
NT

6

S.D.D. 14 B 45-5L

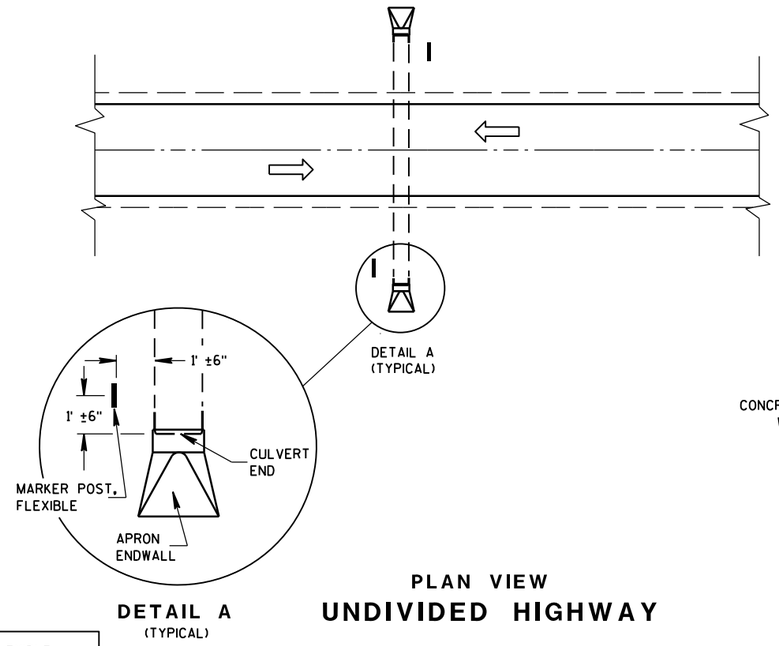
6

S.D.D. 14 B 45-5L



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

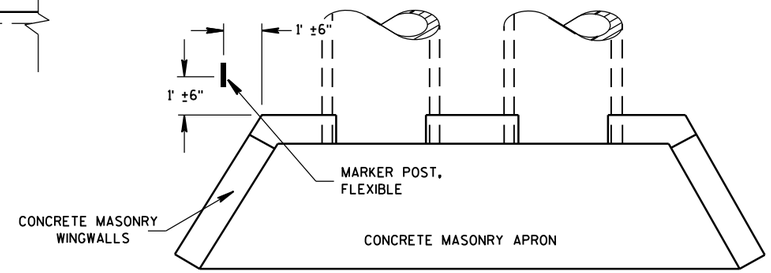
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

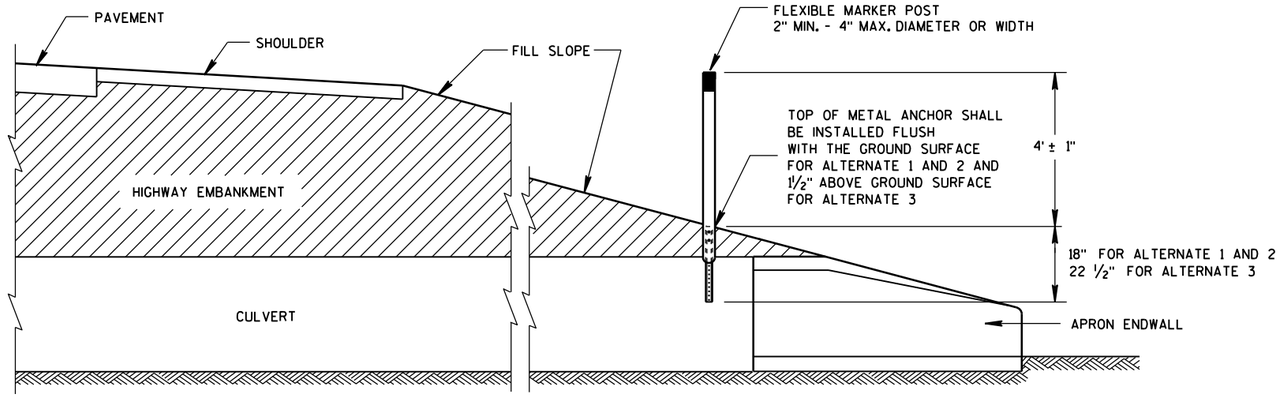
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

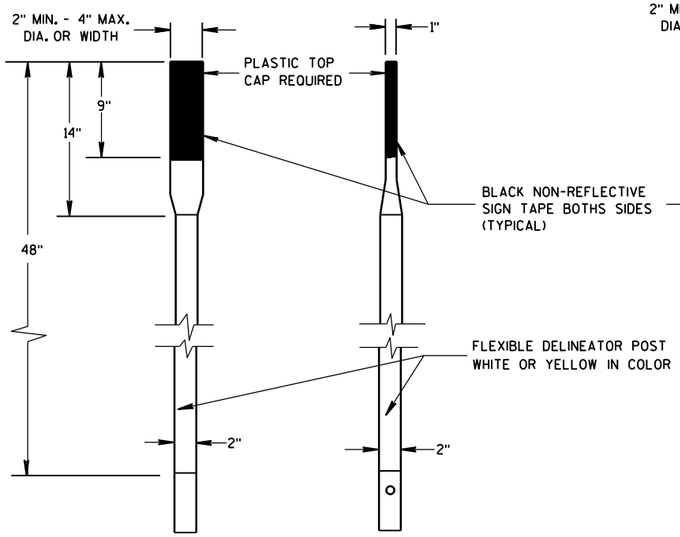
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

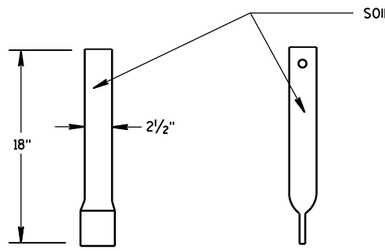
6

S.D.D. 15 A 3-2a

6

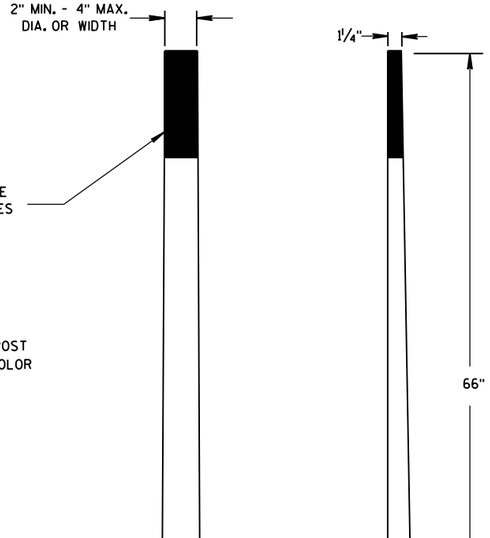
S.D.D. 15 A 3-2a





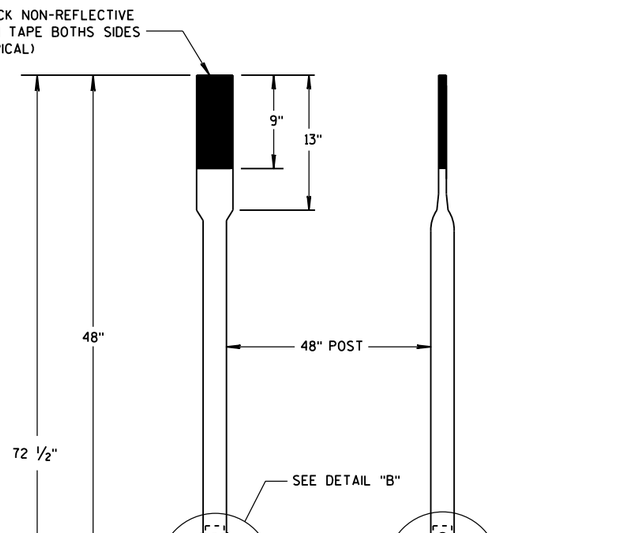
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

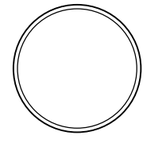
ALTERNATE 2



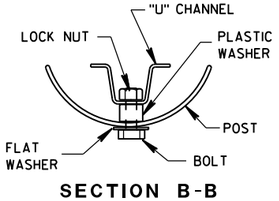
FRONT VIEW SIDE VIEW

ALTERNATE 3

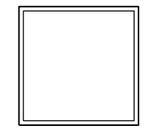
FLEXIBLE MARKER POSTS



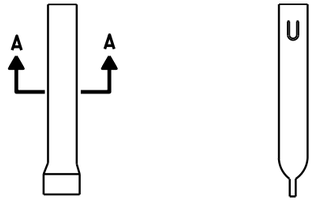
SECTION A-A



SECTION B-B

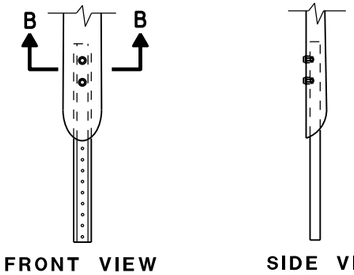


SECTION C-C



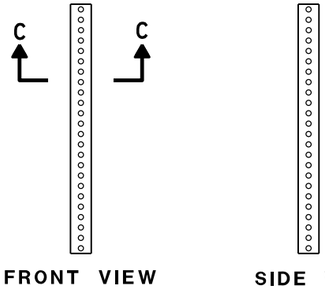
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

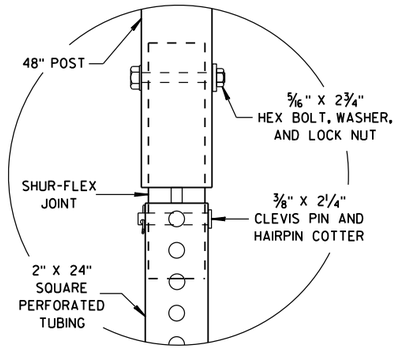
ALTERNATE 2



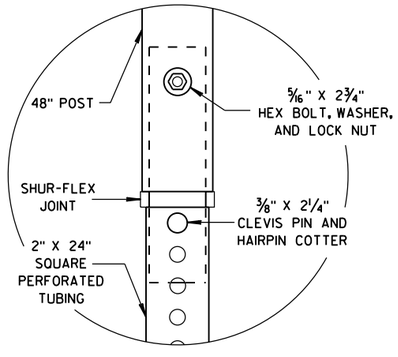
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

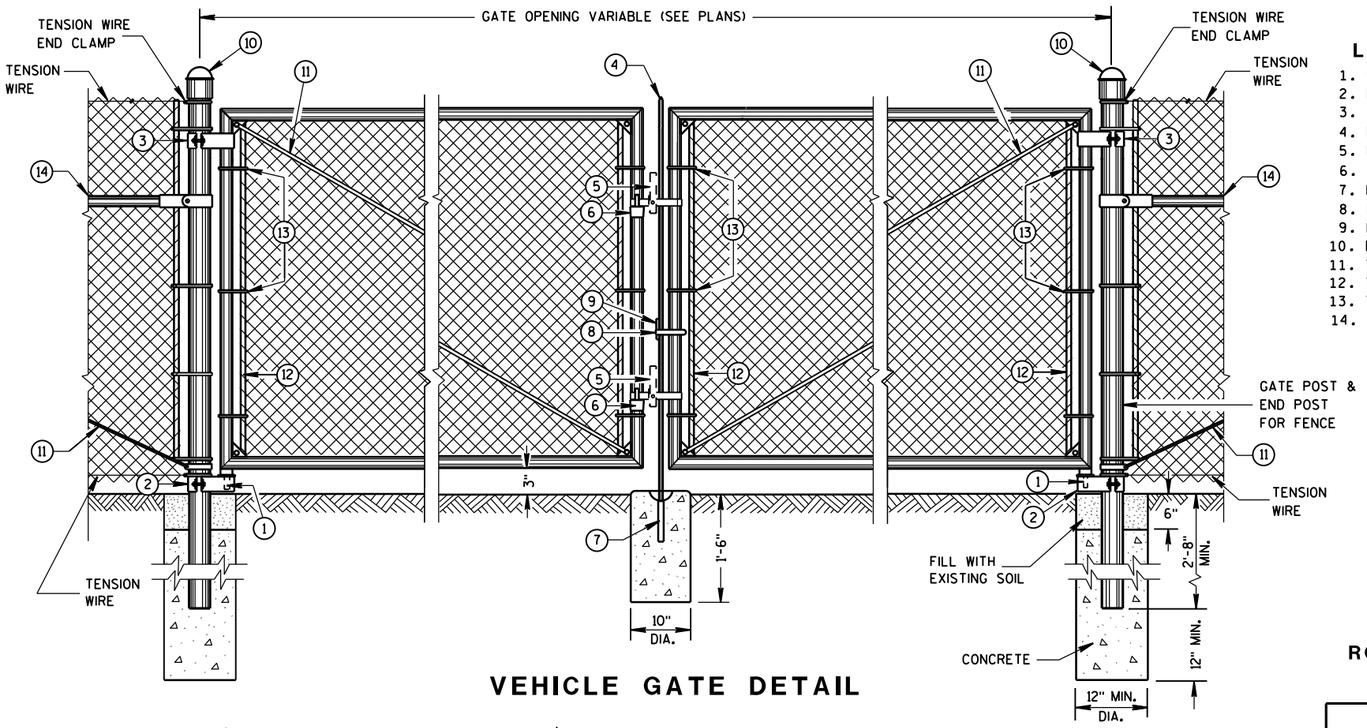
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

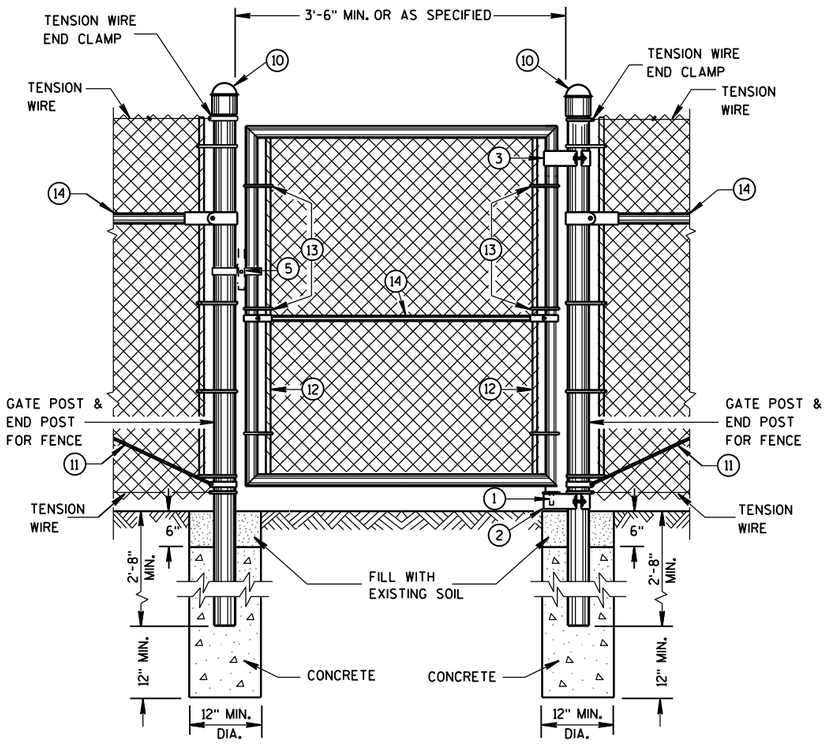
S.D.D. 15 A 3-2b

6

S.D.D. 15 A 3-2b



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

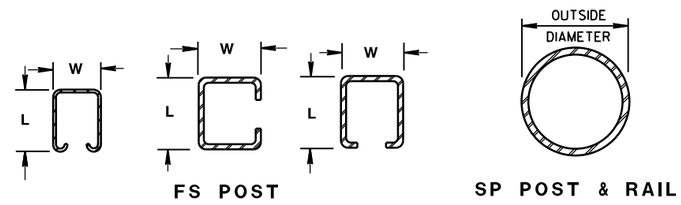
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



FS POST

SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

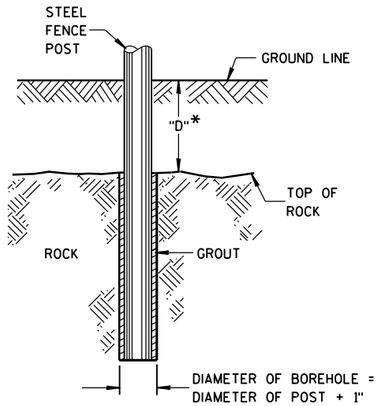
POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

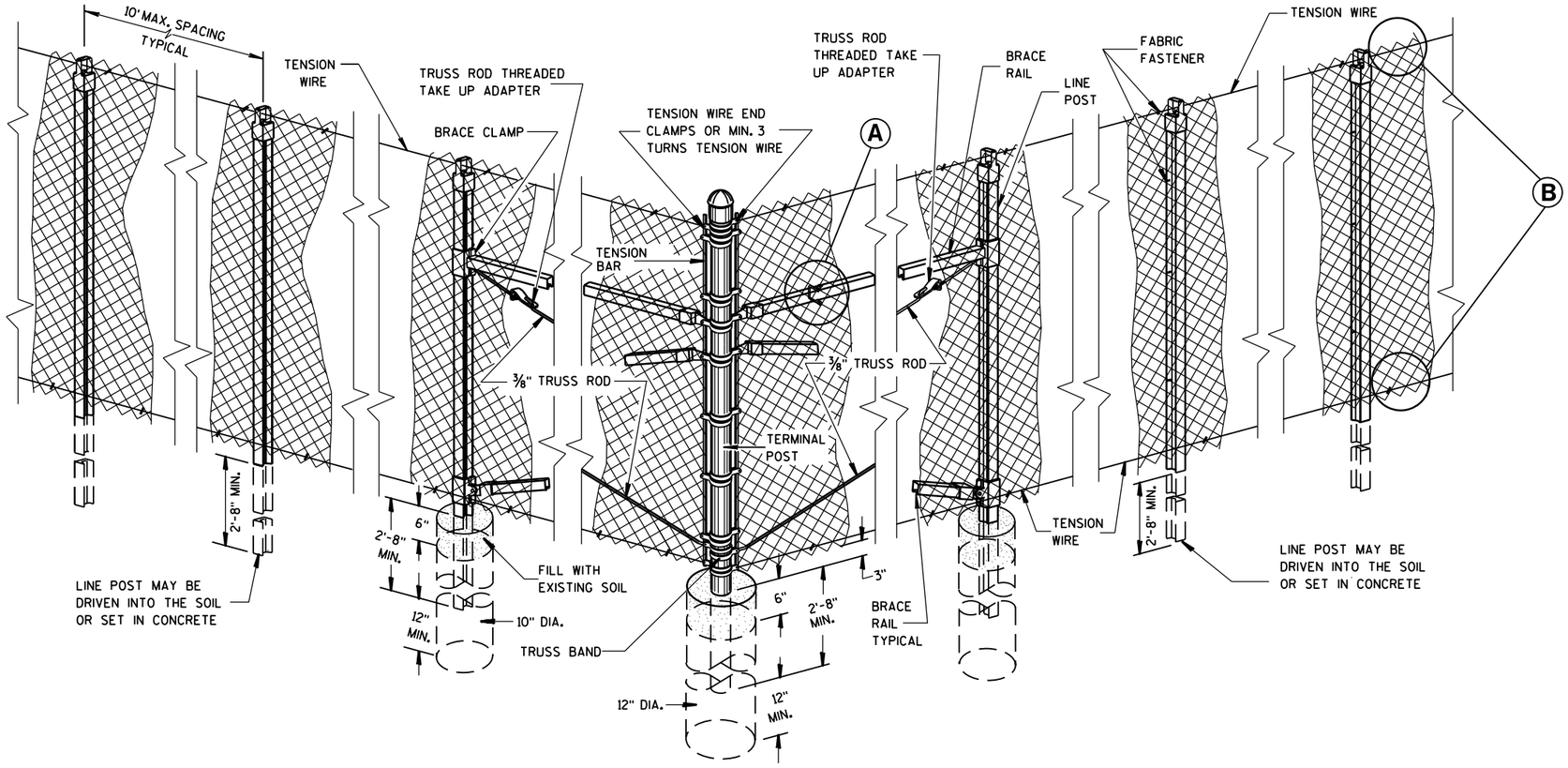
6

S.D.D. 15 B 3-15a

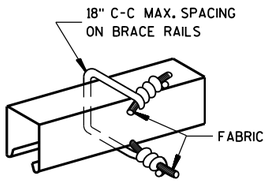


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



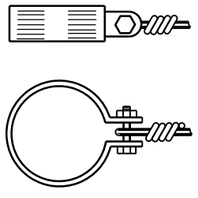
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



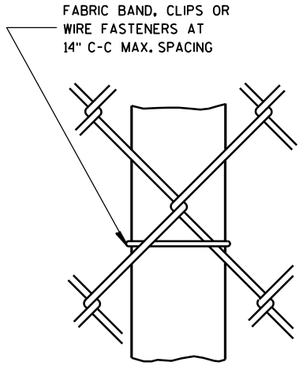
BRACE RAIL

FABRIC FASTENER

Ⓐ



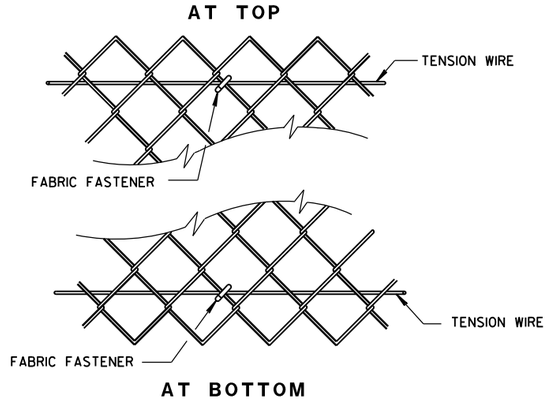
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

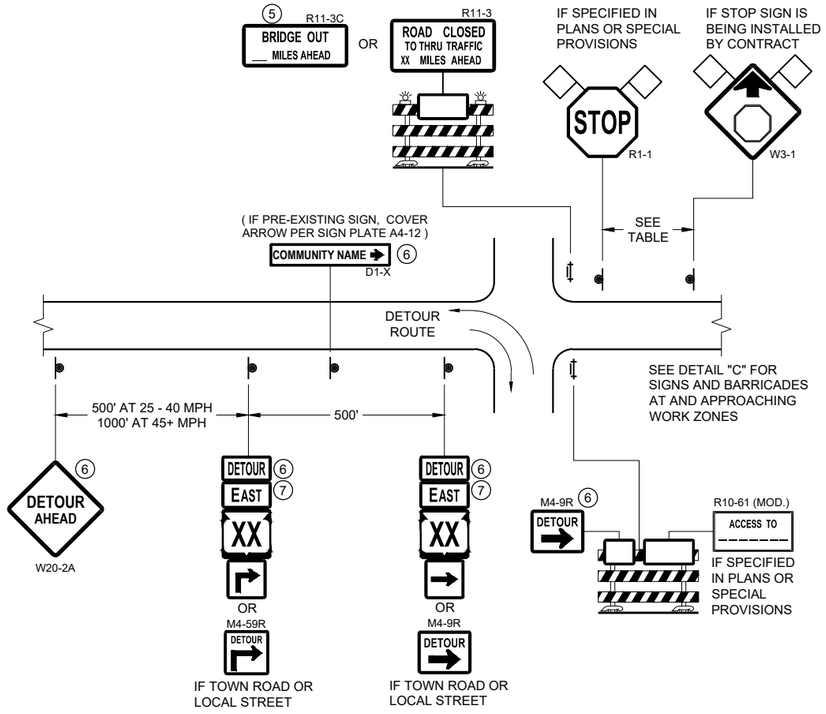
APPROVED
FEB. 2015 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

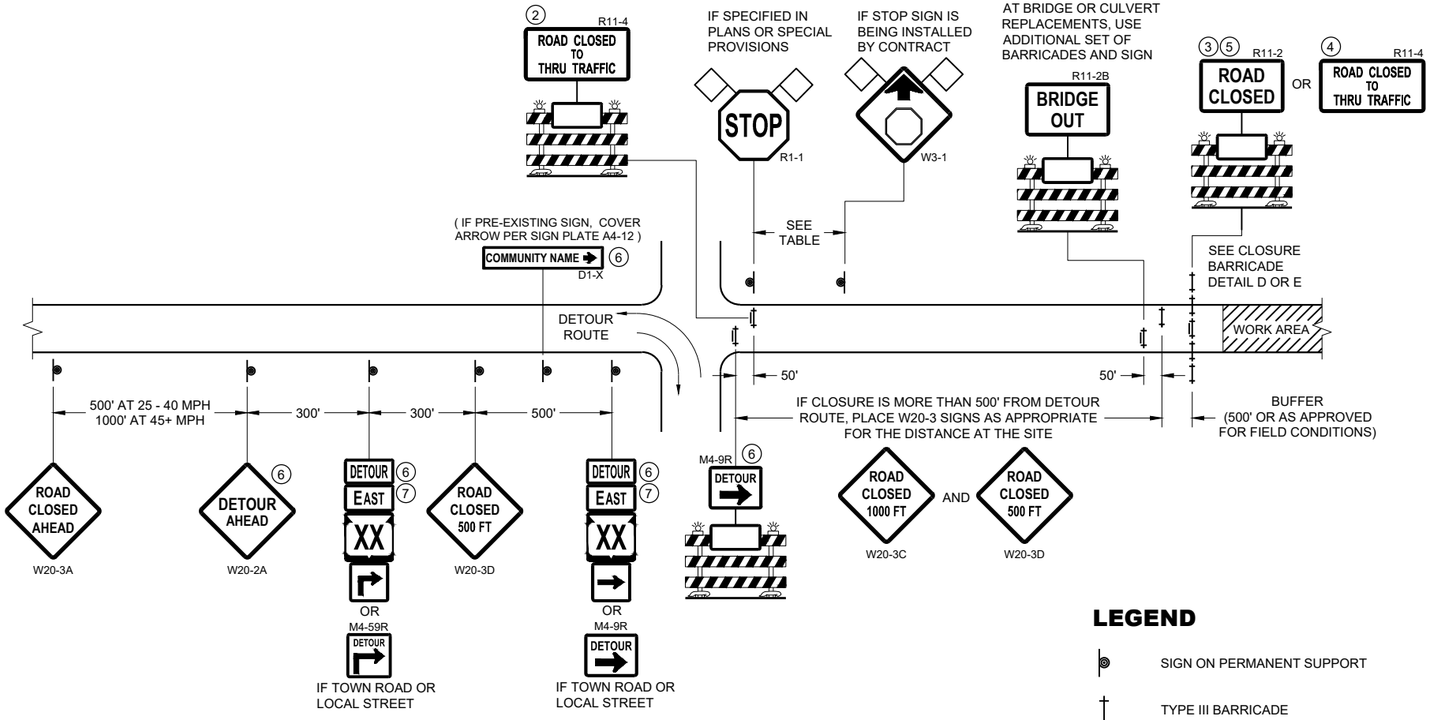
6

S.D.D. 15 B 3-15b

6

S.D.D. 15 B 3-15b



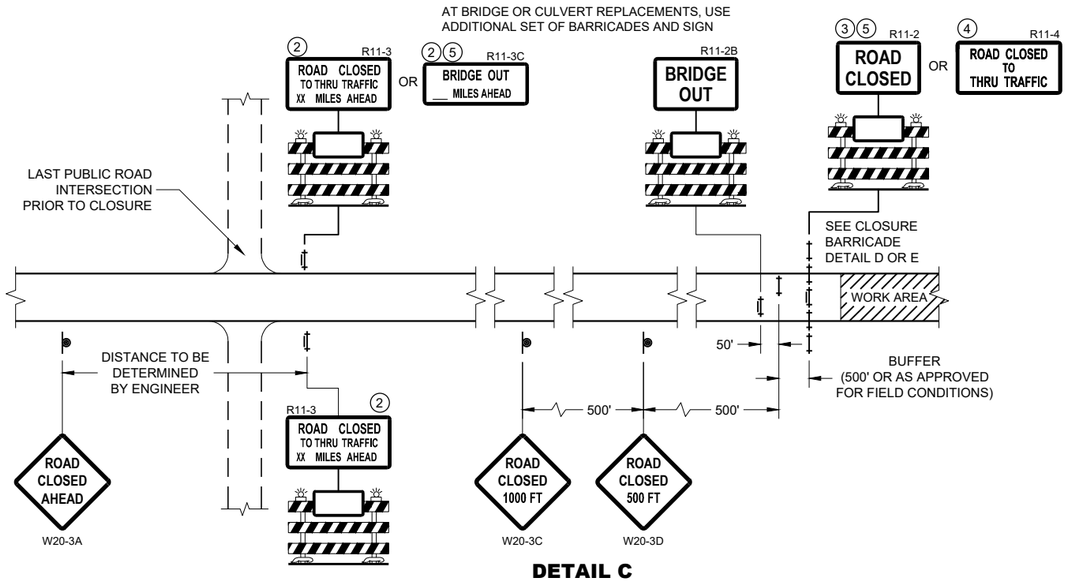


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b" FOR GENERAL NOTES AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

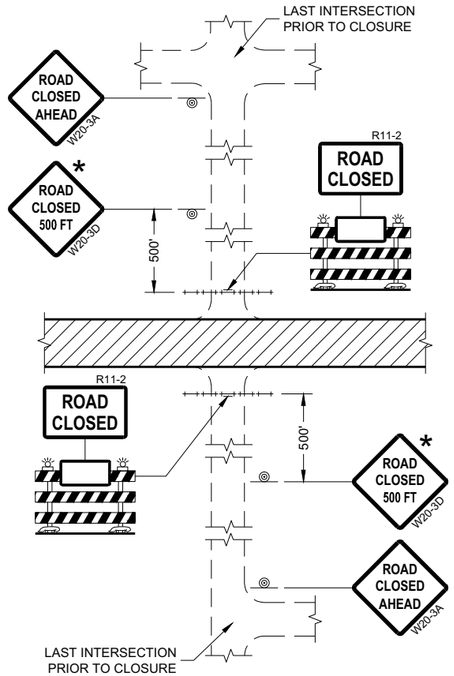
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

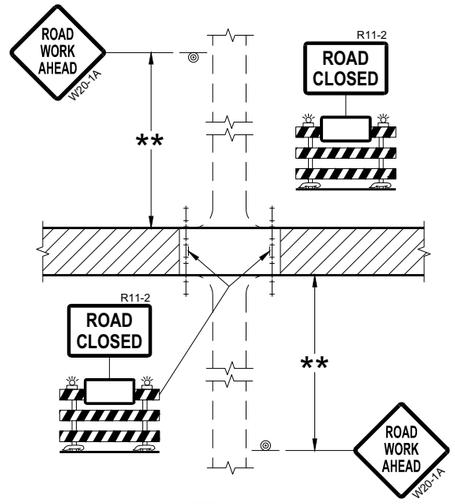
6

SDD 15C02 - 08a

SDD 15C02 - 08a



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

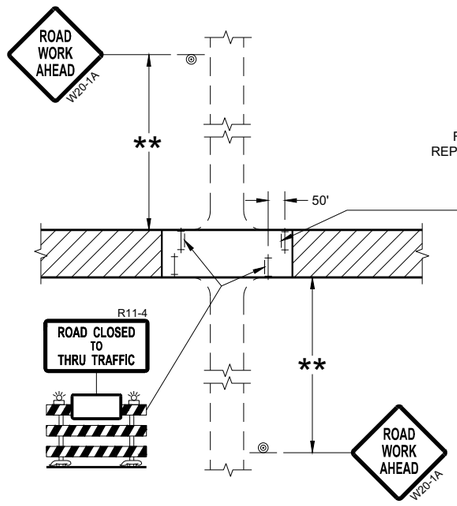
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

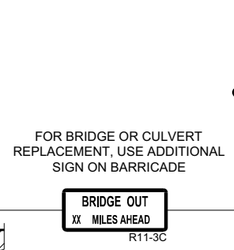
THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

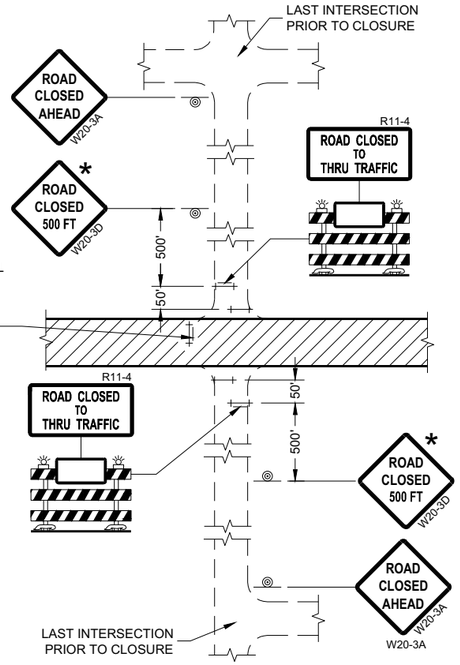
* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.





DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15C03 - 05

6

SDD 15C03 - 05

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.

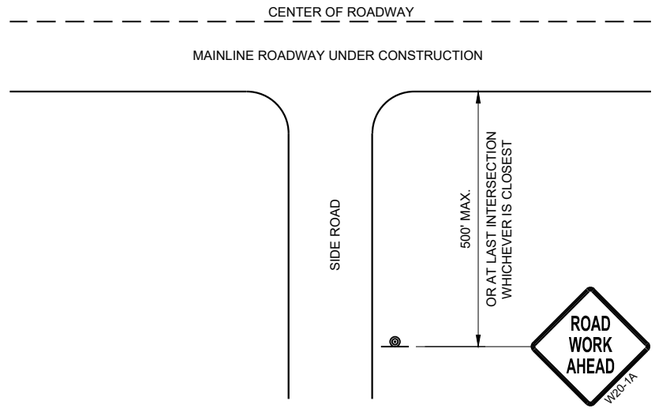
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN 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 REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

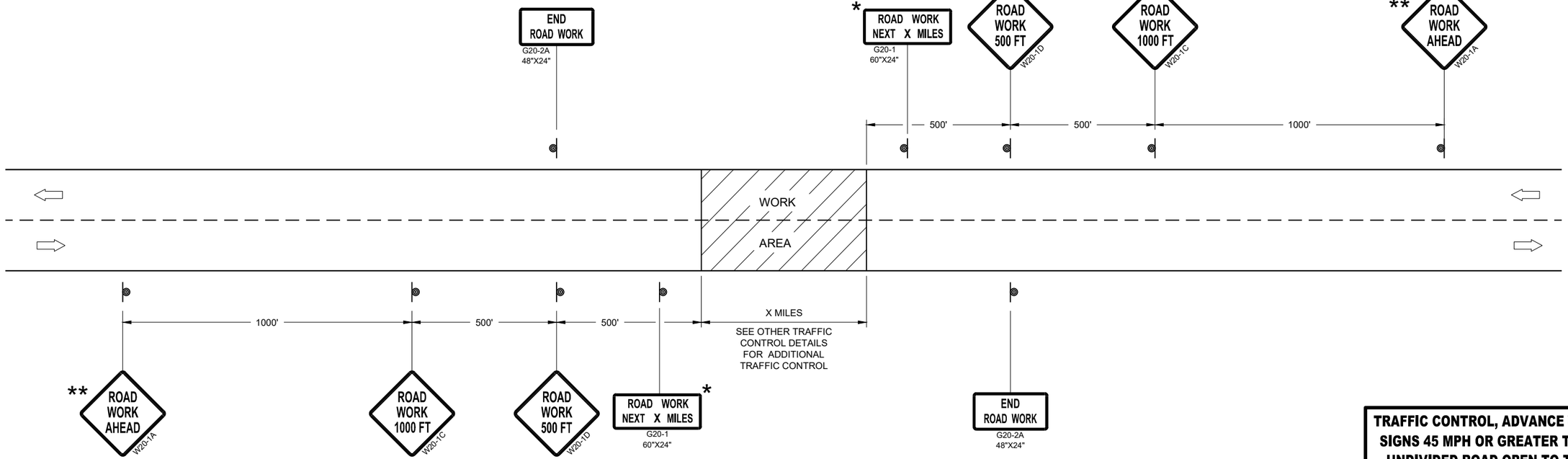
** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C04 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

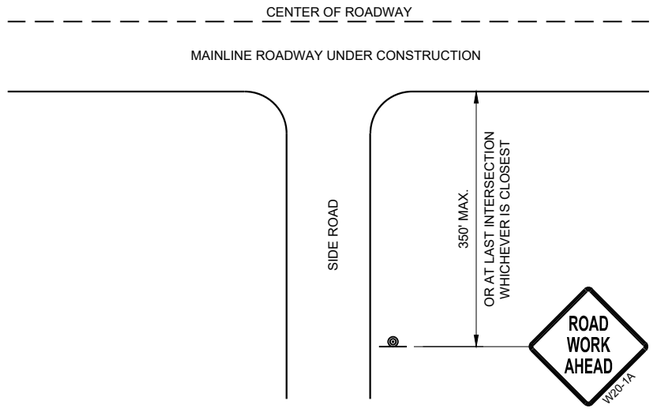
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN 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 REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



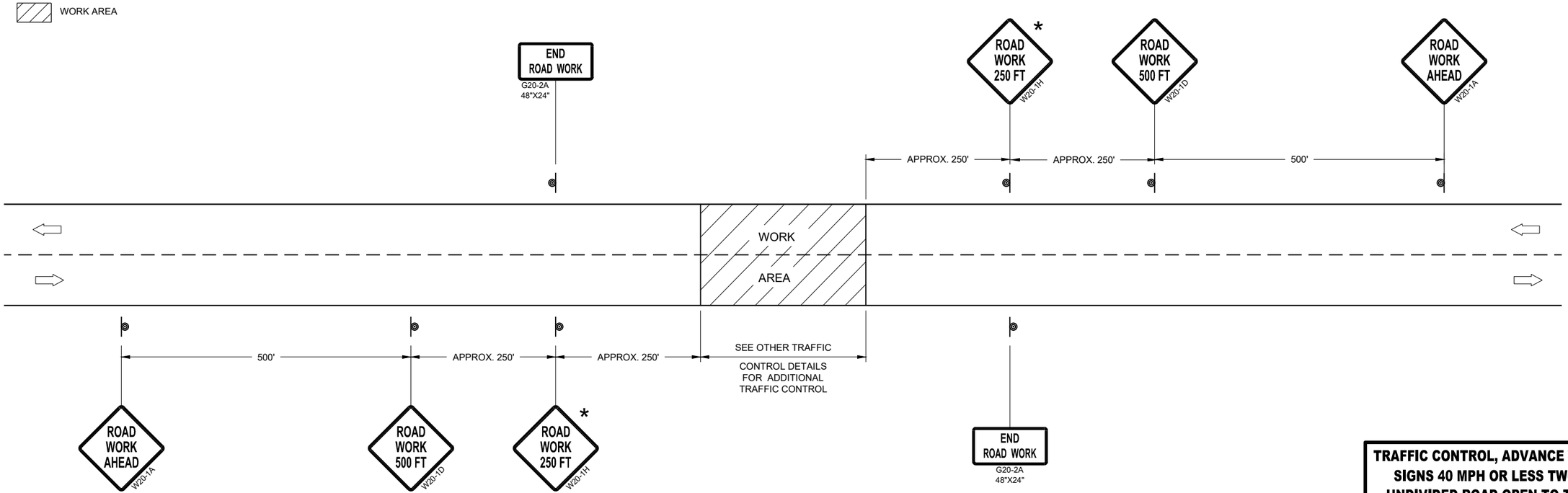
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

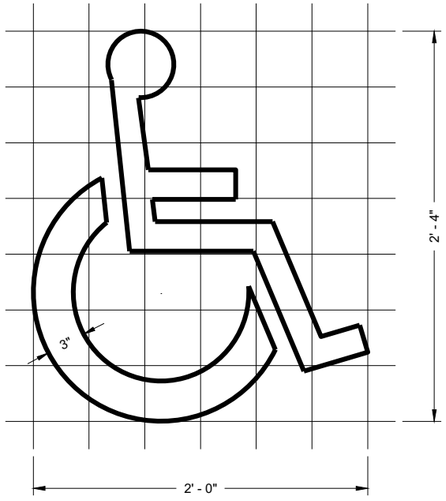
FHWA

6

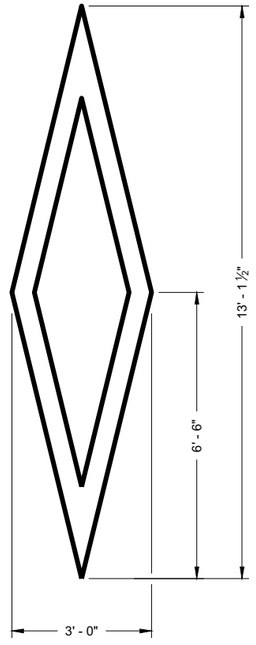
SDD 15C05 - 05

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.



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

6

6

SDD 15C07 - 15a

SDD 15C07 - 15a

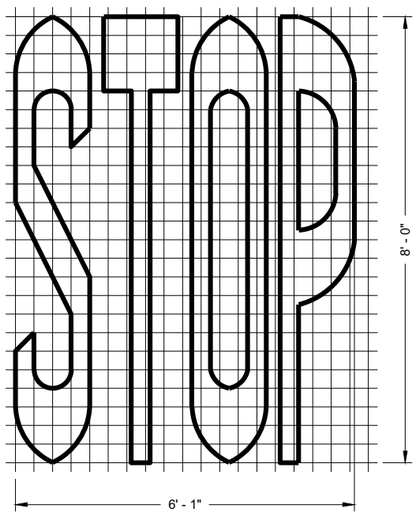
PAVEMENT MARKING SYMBOLS

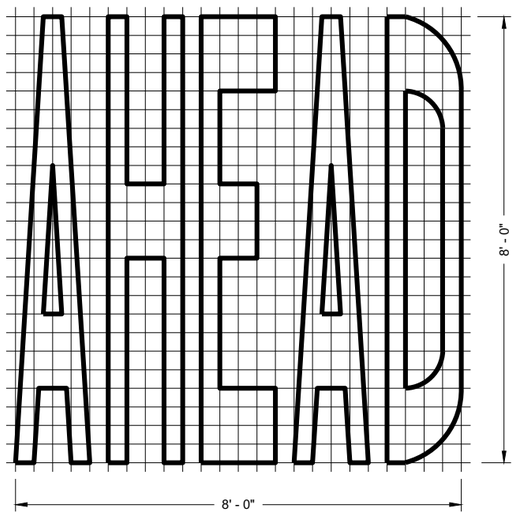
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

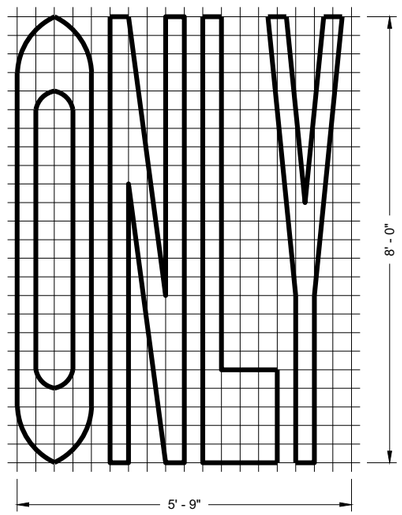
APPROVED
November 2019
DATE

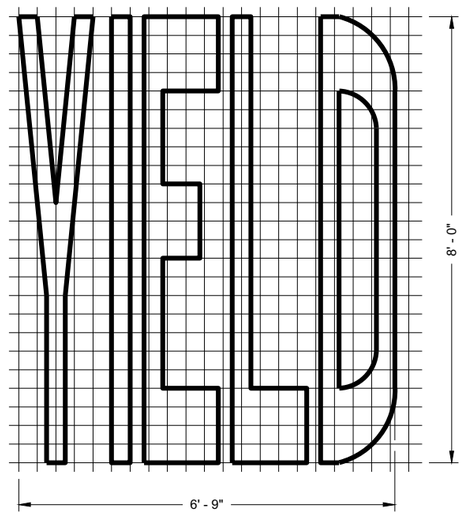
/S/ Matthew Rauch
STATE SIGNING AND MAR ENGINEER

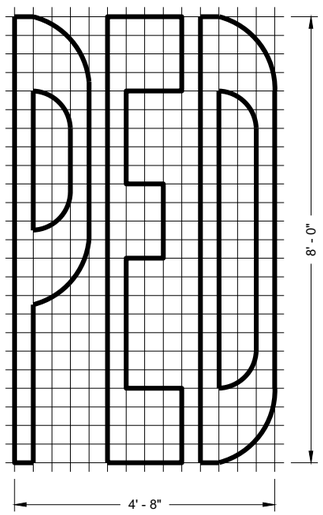
FHWA

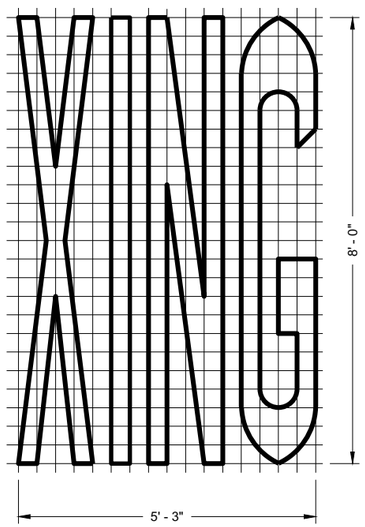


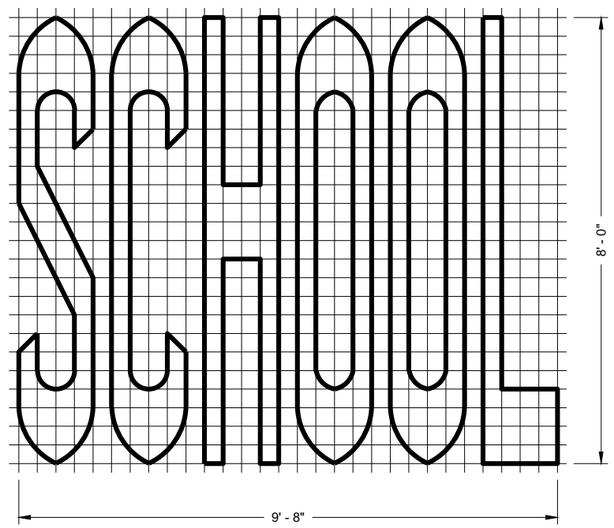




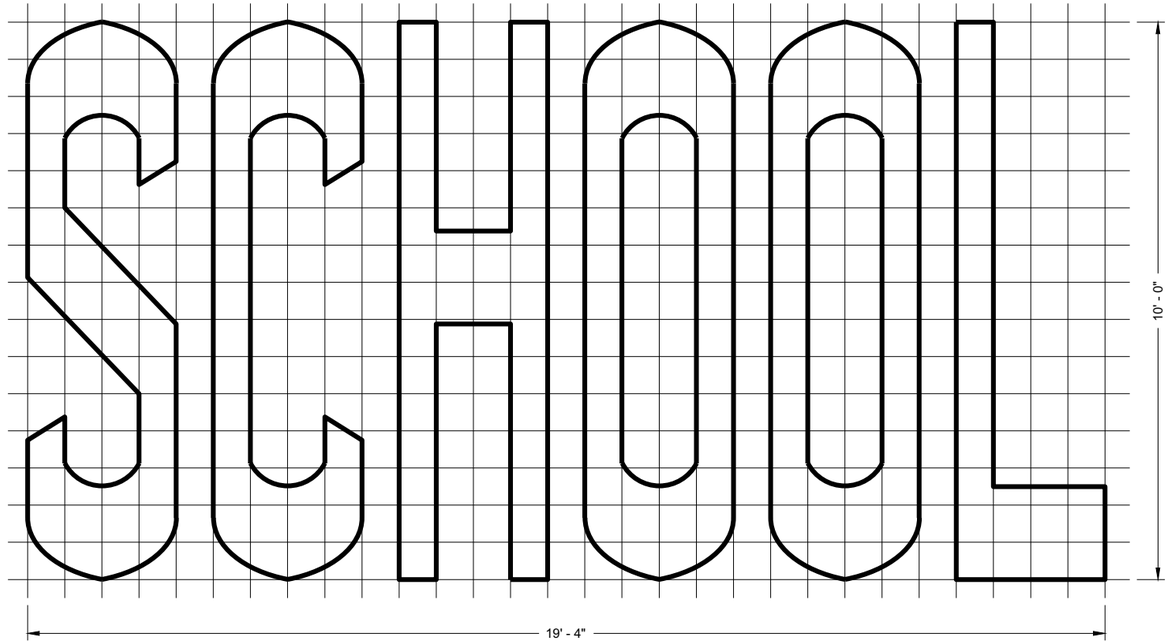








SINGLE LANE



TWO - LANE

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.

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

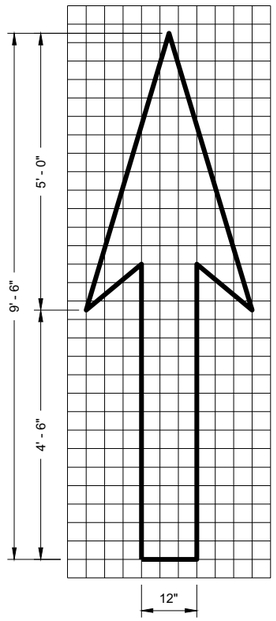
APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

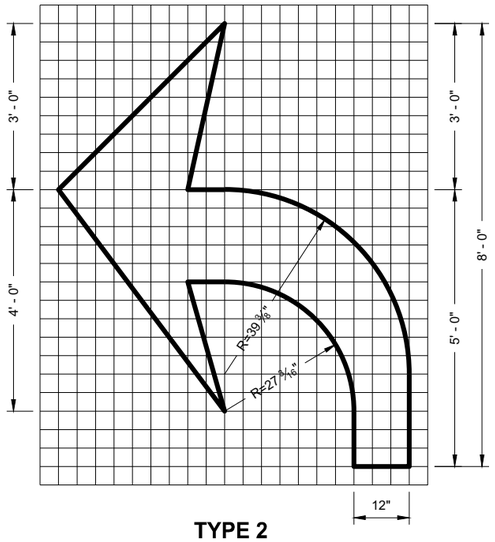
FHWA

6

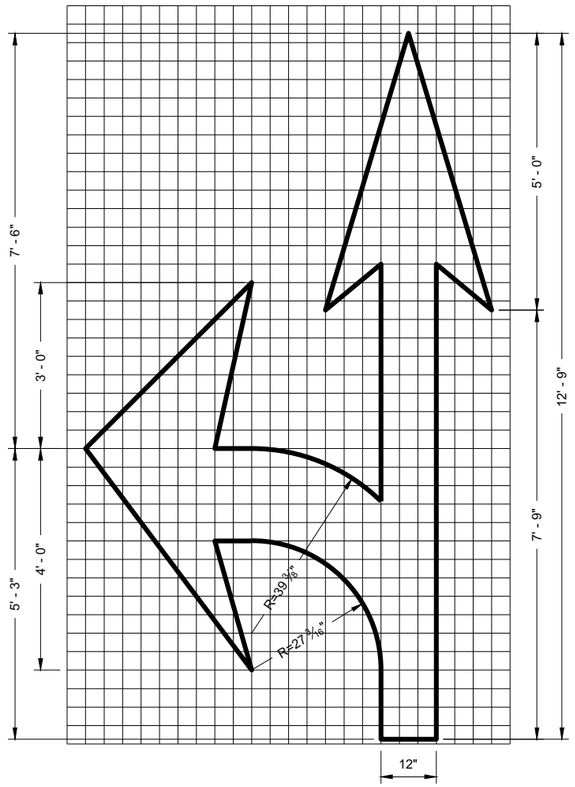
SDD 15C07 - 15b



TYPE 1



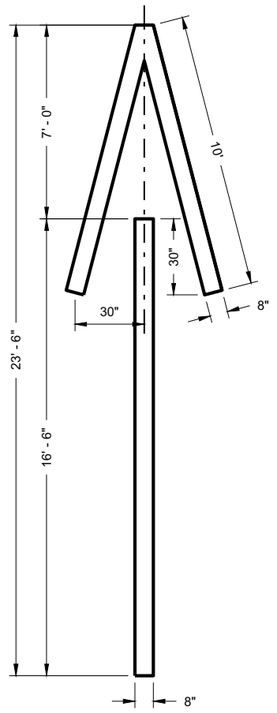
TYPE 2



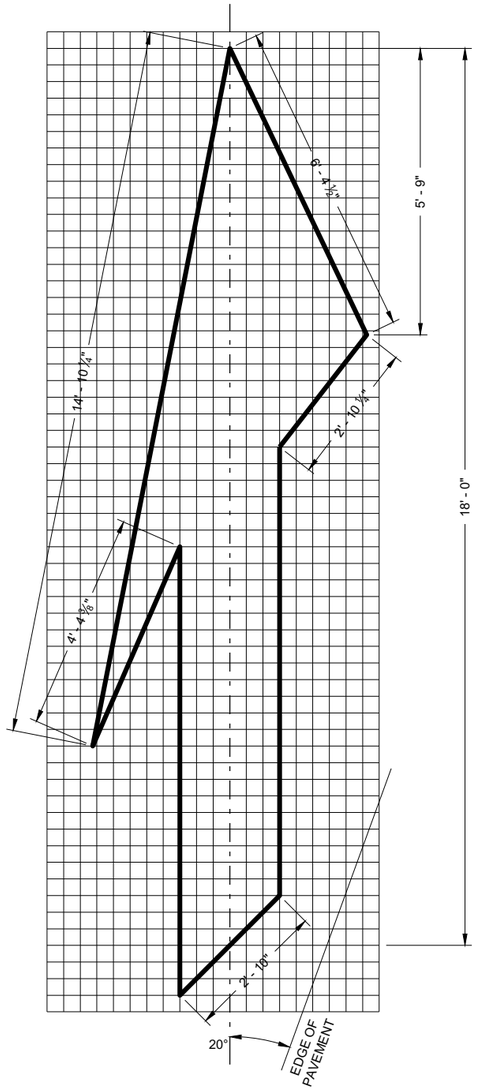
TYPE 3

GENERAL NOTES

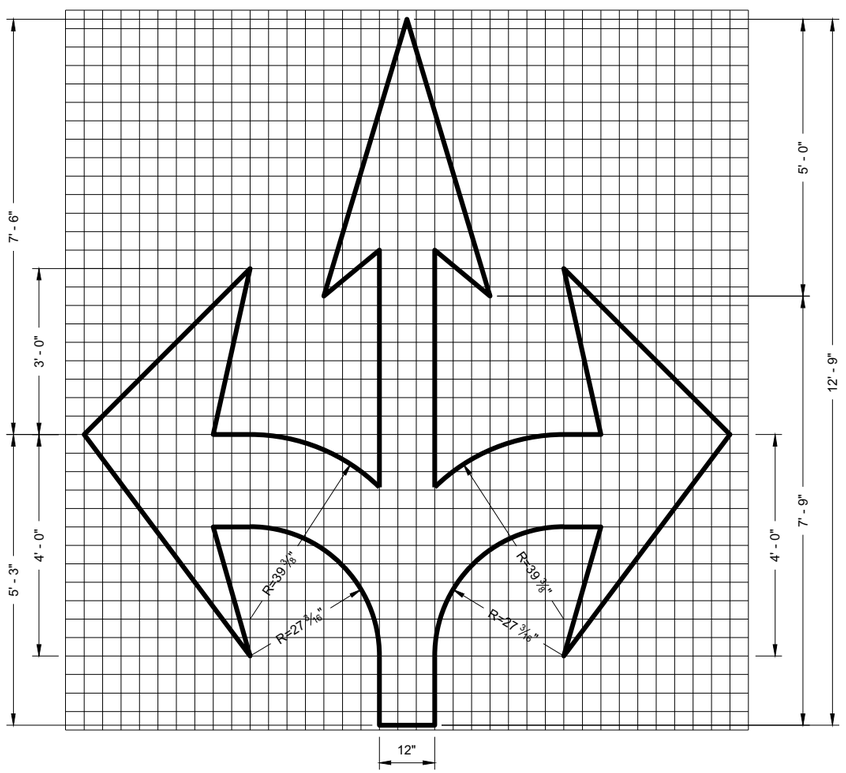
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



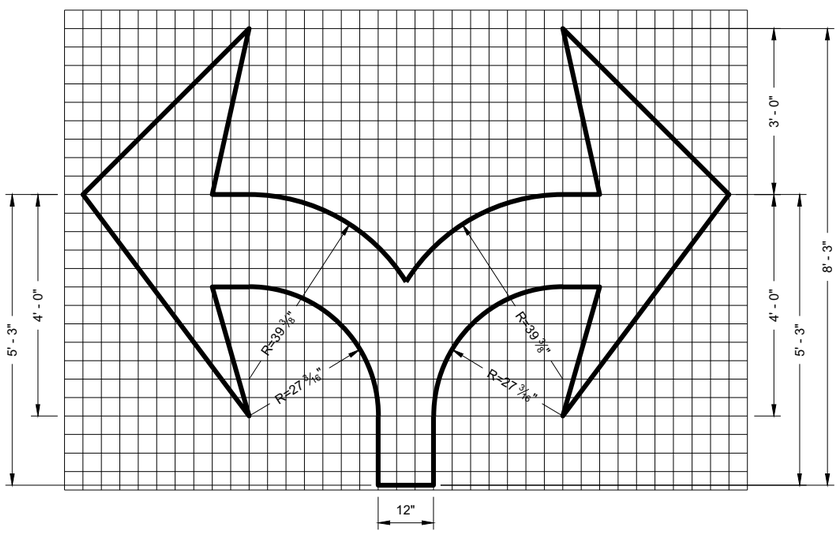
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

FHWA

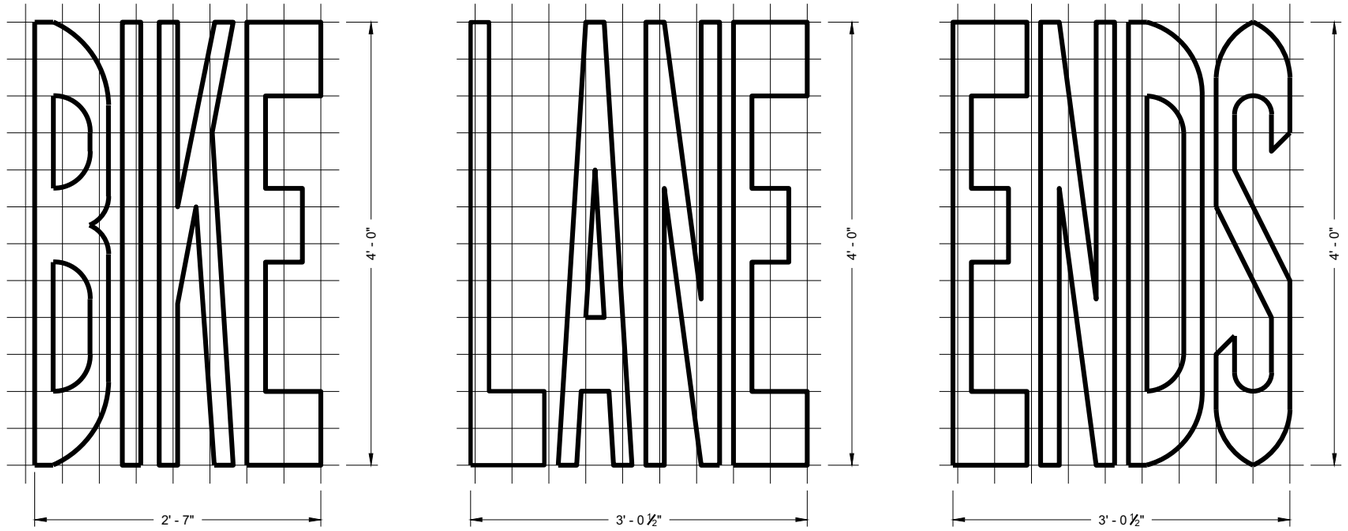
6

SDD 15C07 - 15c

6

SDD 15C07 - 15c

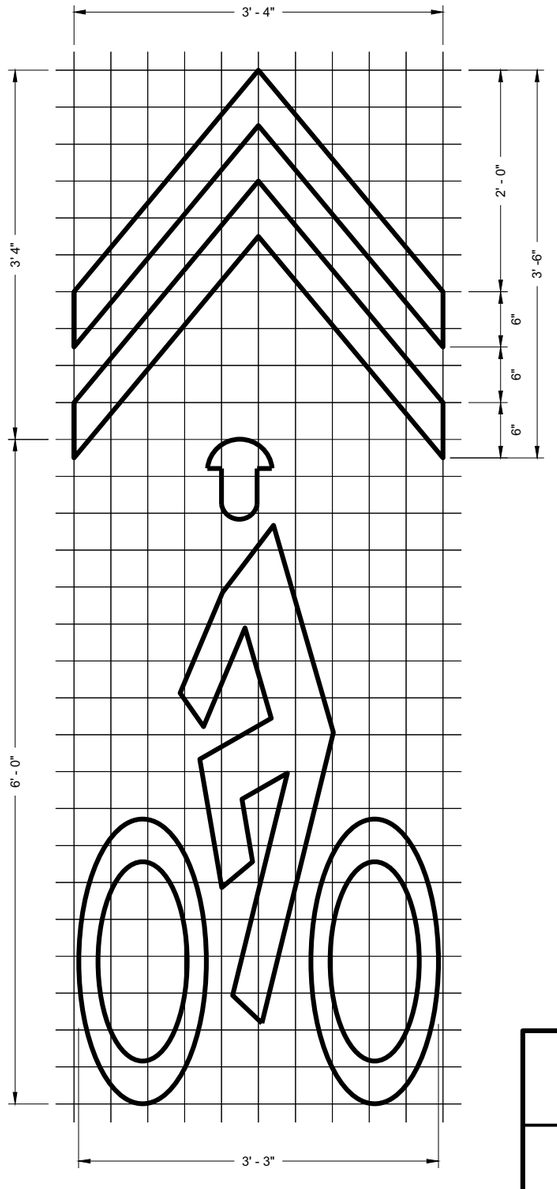
SDD 15C7-e Pavement Marking For Bike Lanes

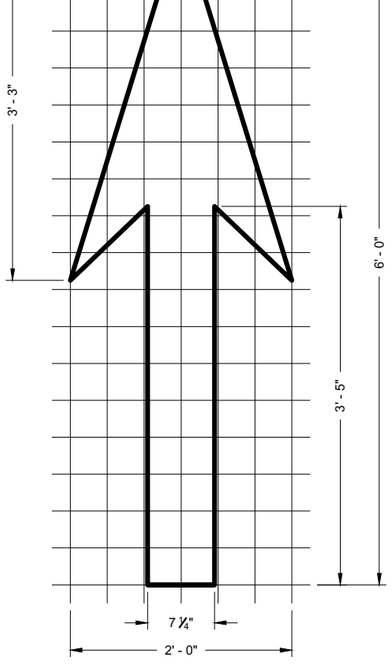


BIKE LANE WORDS

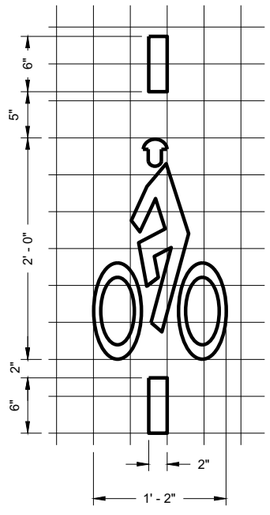
GENERAL NOTES

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.

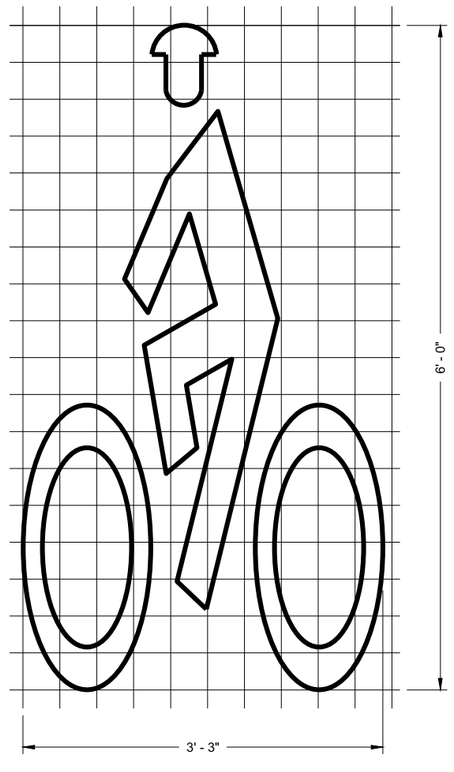




BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING



BIKE LANE SYMBOL

BIKE LANE SYMBOL FOR SHARED LANE

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

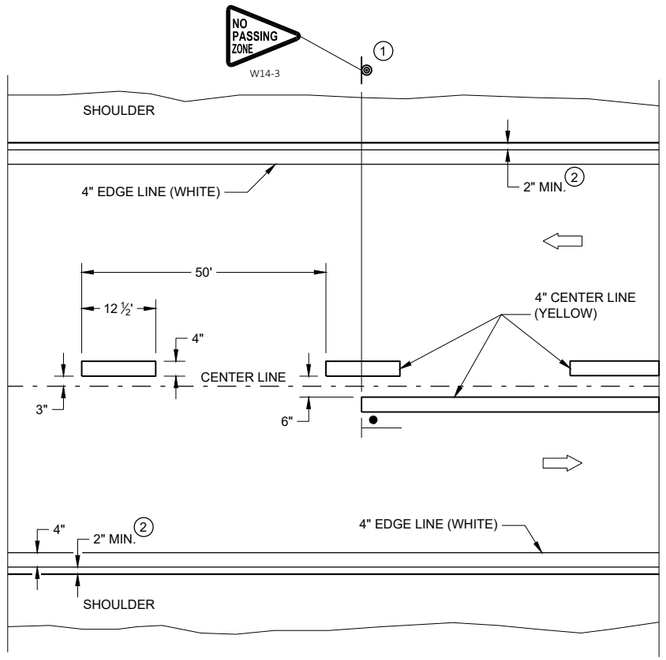
FHWA

6

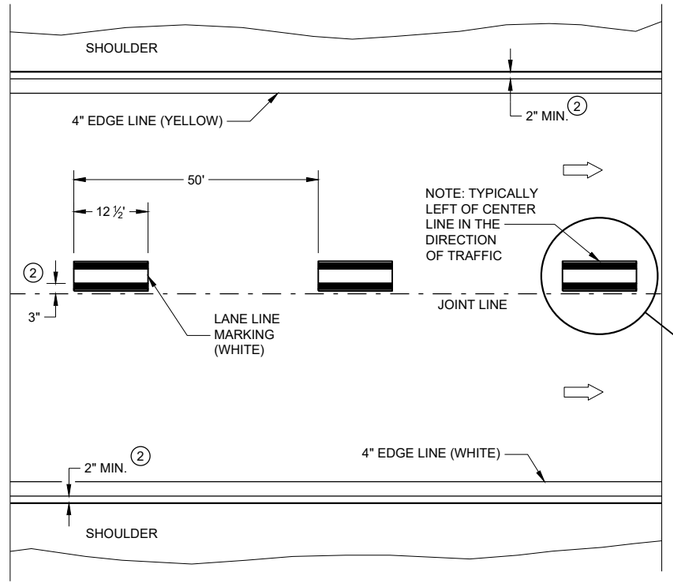
SDD 15C07 - 15e

6

SDD15C07 - 15e

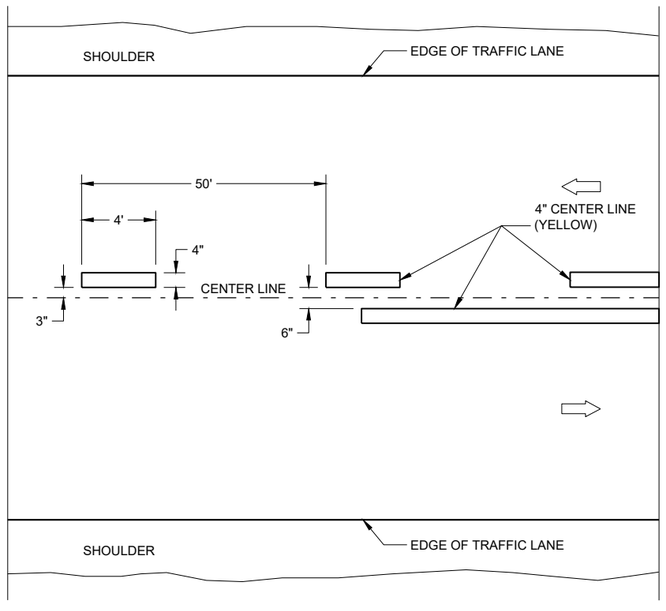


TWO WAY TRAFFIC

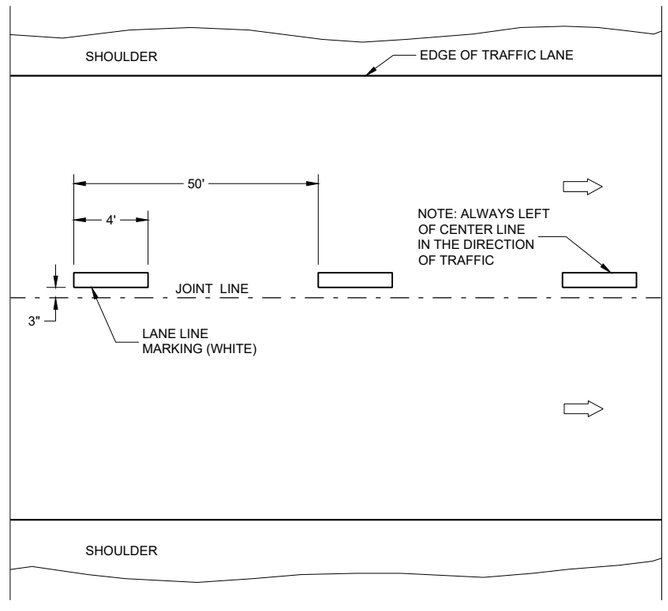


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

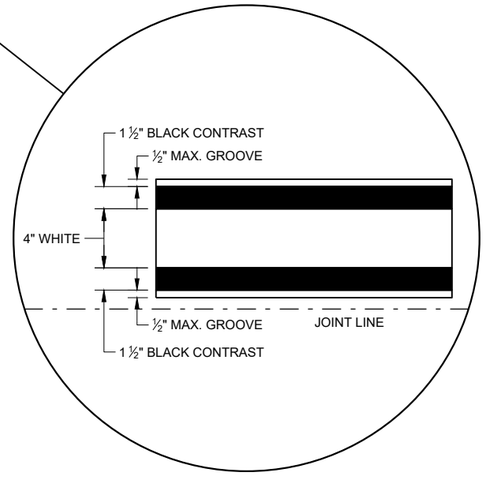
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Matthew Rauch
STATEWIDE SIGNING AND M ENGINEER

FHWA

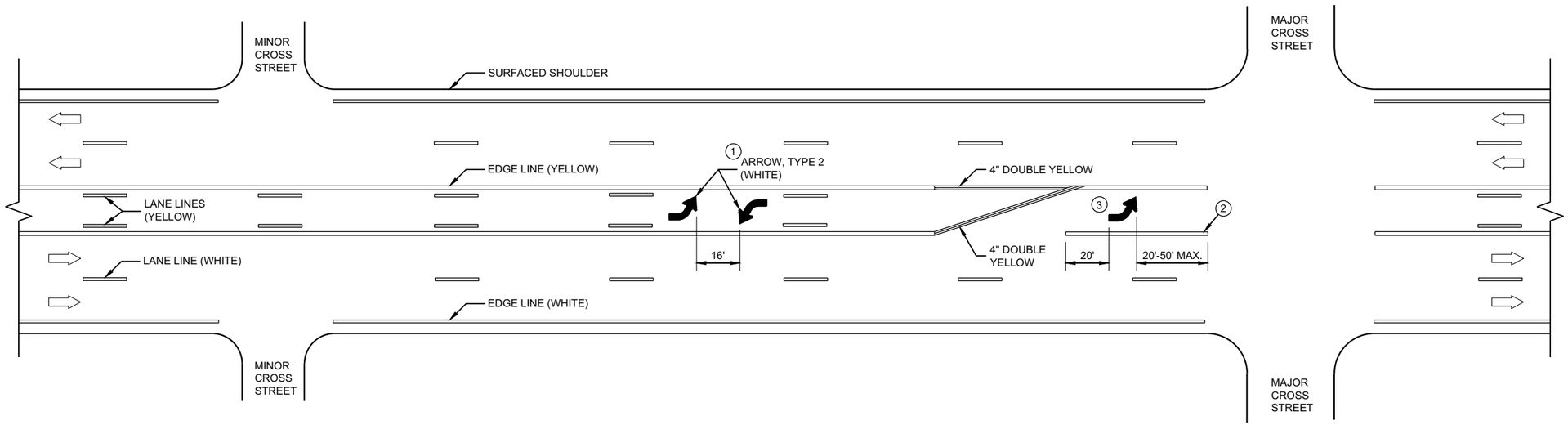
SDD 15C08 - 20a

SDD 15C08 - 20a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

6

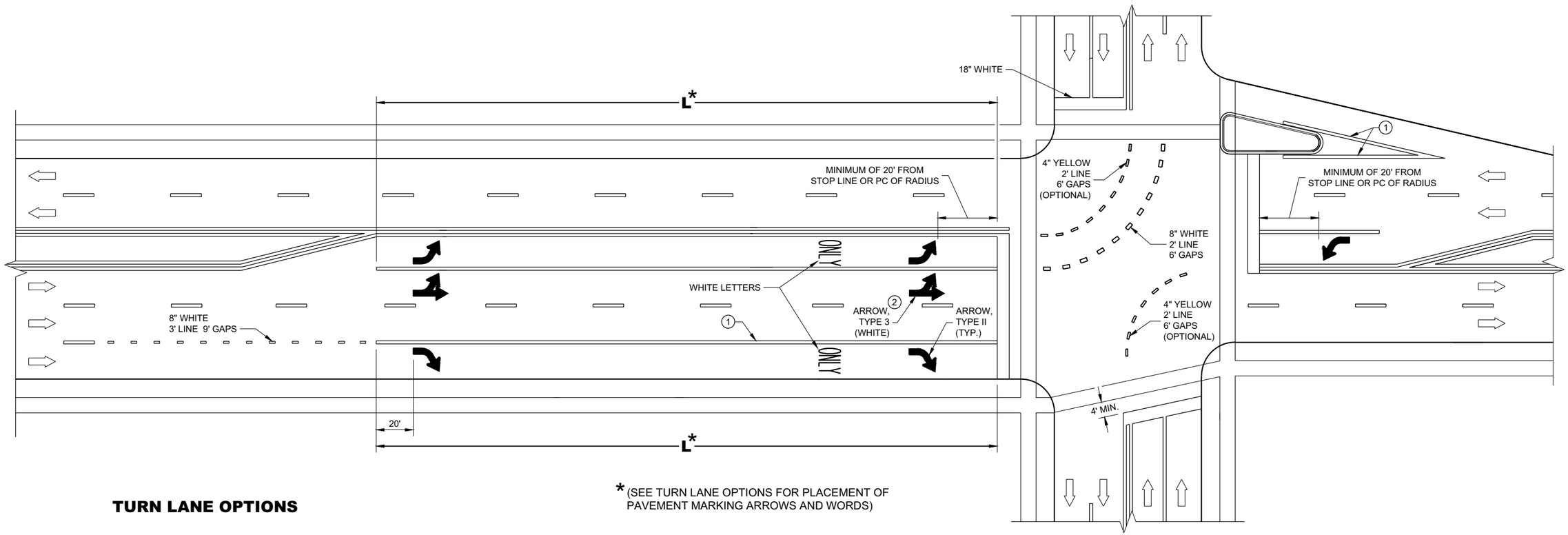
6

SDD 15C08 - 20b

SDD 15C08 - 20b

PAVEMENT MARKING (TURN LANES)

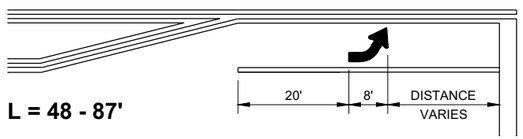
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



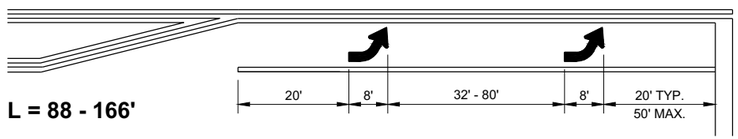
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

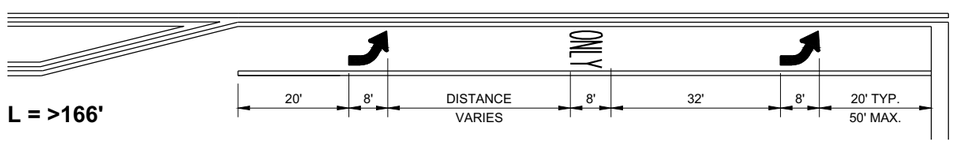
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

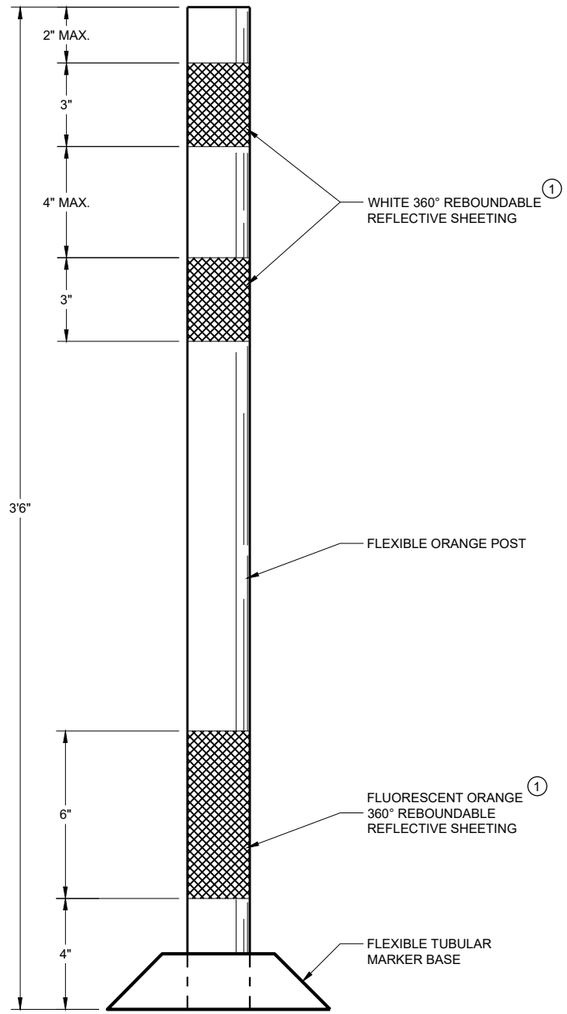
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C08 - 20c



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 THE 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, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

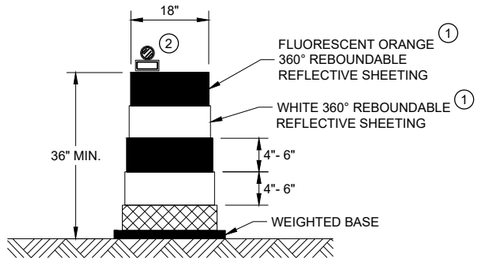
6

SDD 15C11 - 09a

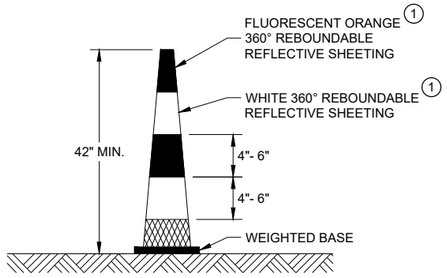
SDD 15C11 - 09a

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

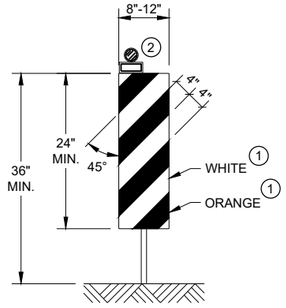


DRUM



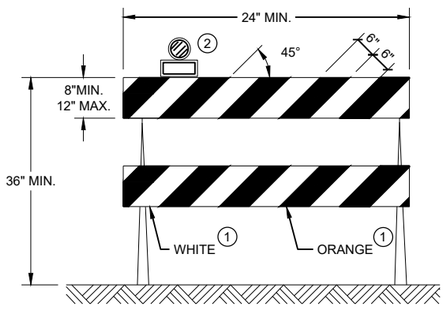
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



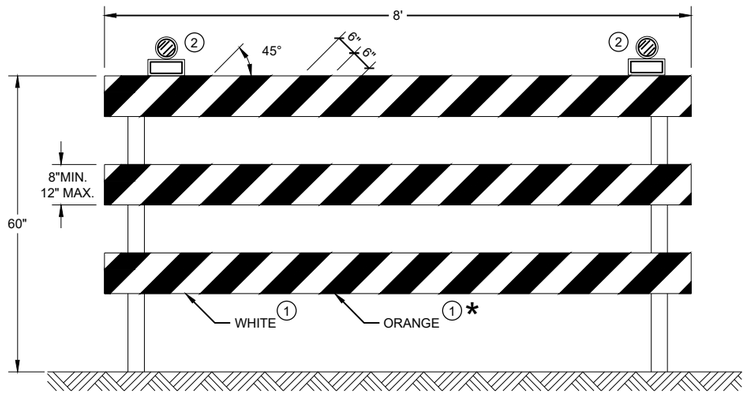
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

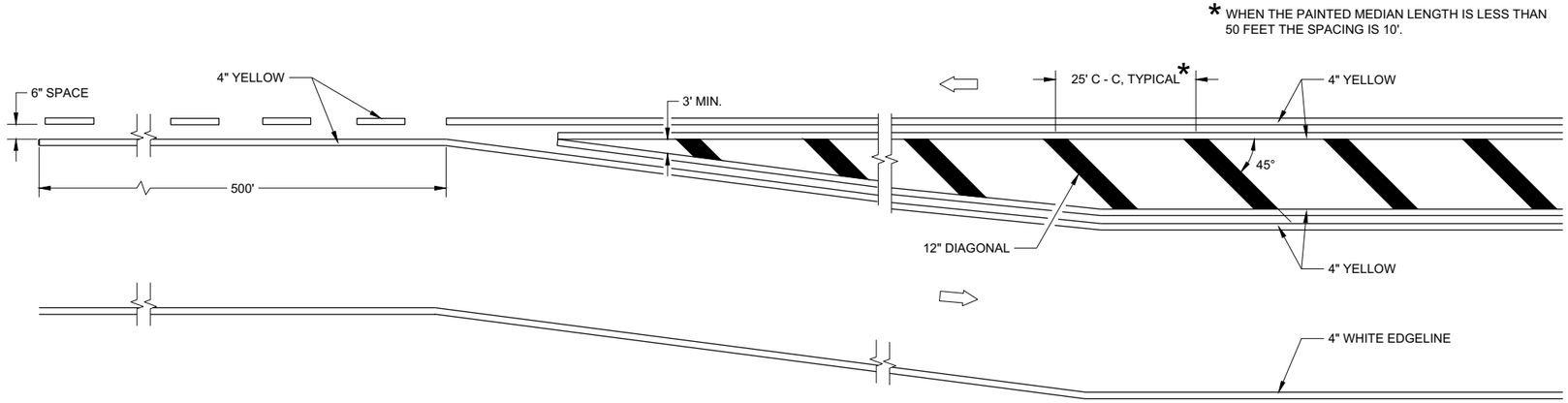
FHWA

6

SDD 15C11 - 09b

6

SDD 15C11 - 09b

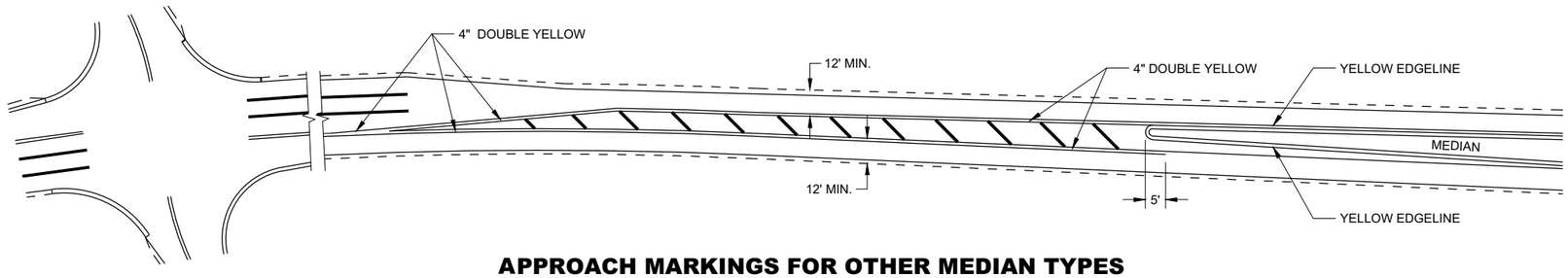


MEDIAN ISLAND DETAIL

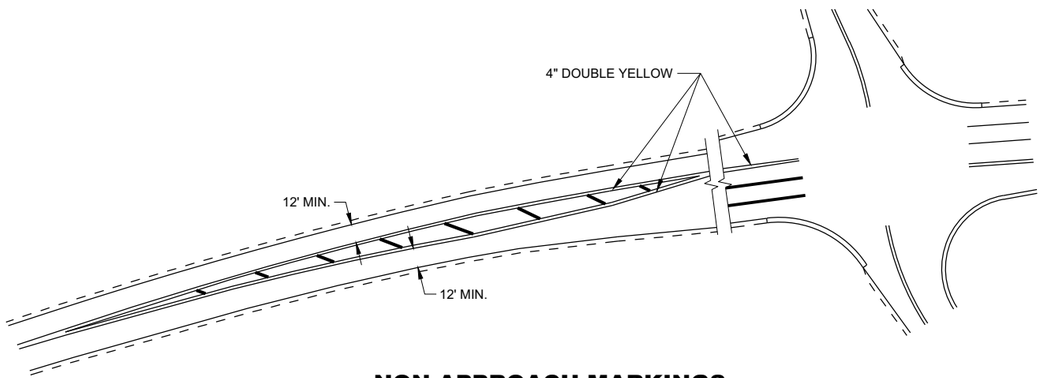
GENERAL NOTES

DIAGONALS ARE OPTIONAL WHEN PAINED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

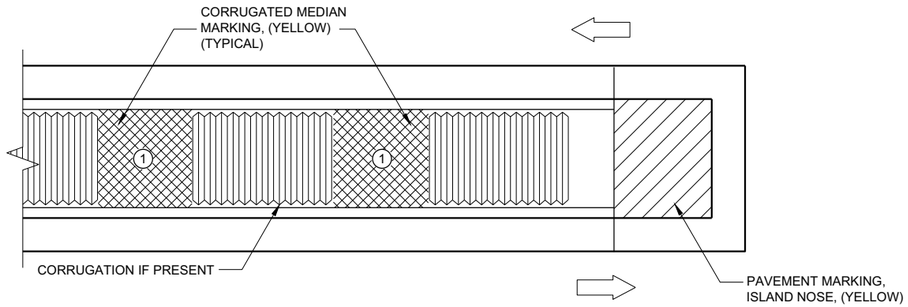
FHWA

6

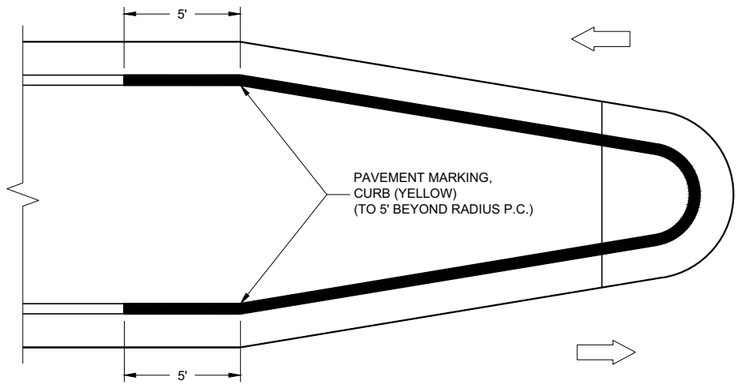
SDD 15C18 - 05a

6

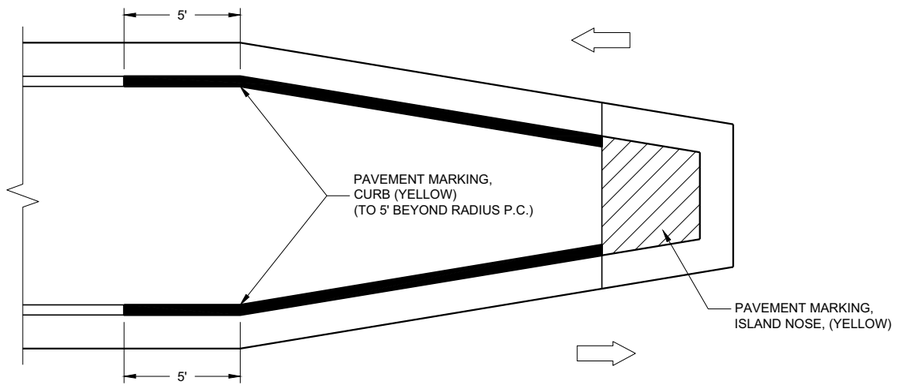
SDD 15C18 - 05a



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

GENERAL NOTES

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 ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021
DATE

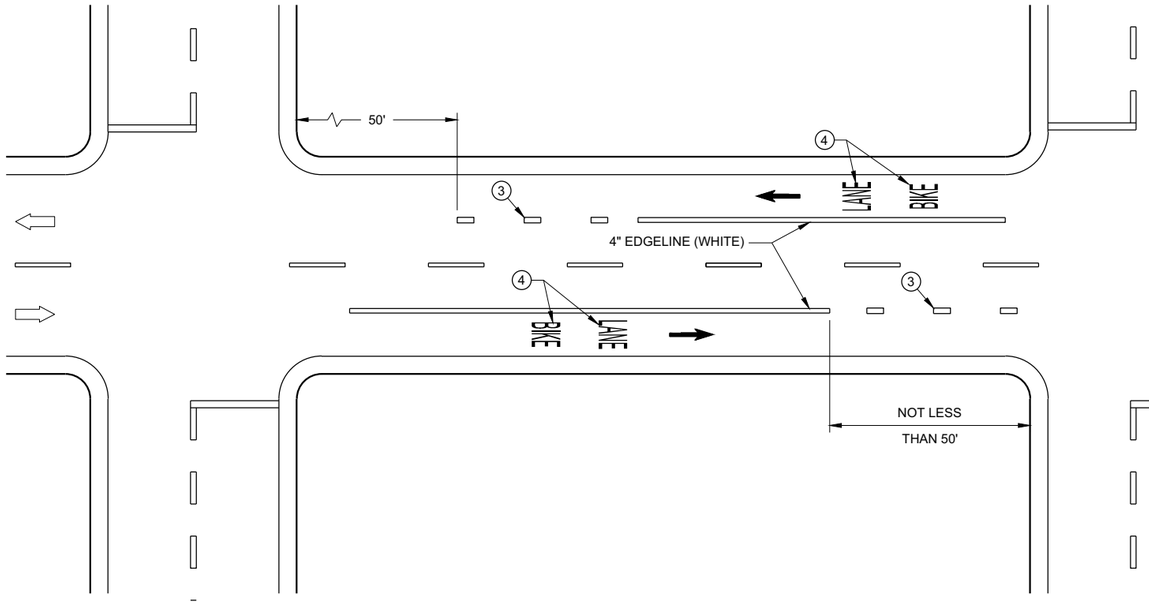
/S/ Matthew R. Rauch
STATE SIGNING AND MAR ENGINEER

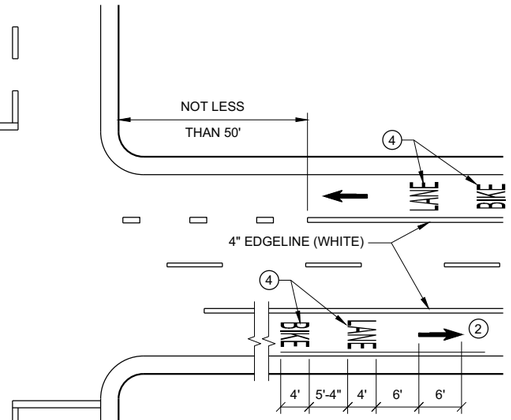
FHWA

6

SDD 15C18 - 05b

SDD15C18 - 05b



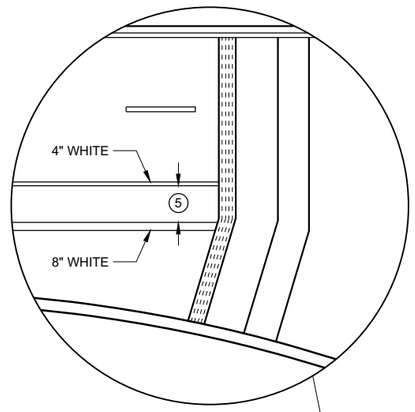


GENERAL NOTES

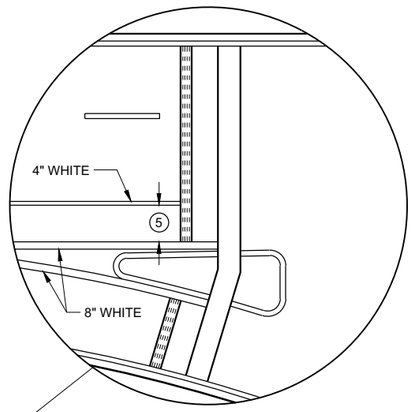
1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. BIKE SYMBOLS OR WORDS MAY BE USED.
5. BIKE ACCOMMODATION IS TYPICAL 5 FEET WIDE AND MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT ≥ 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FOOT WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

DIRECTION OF TRAVEL

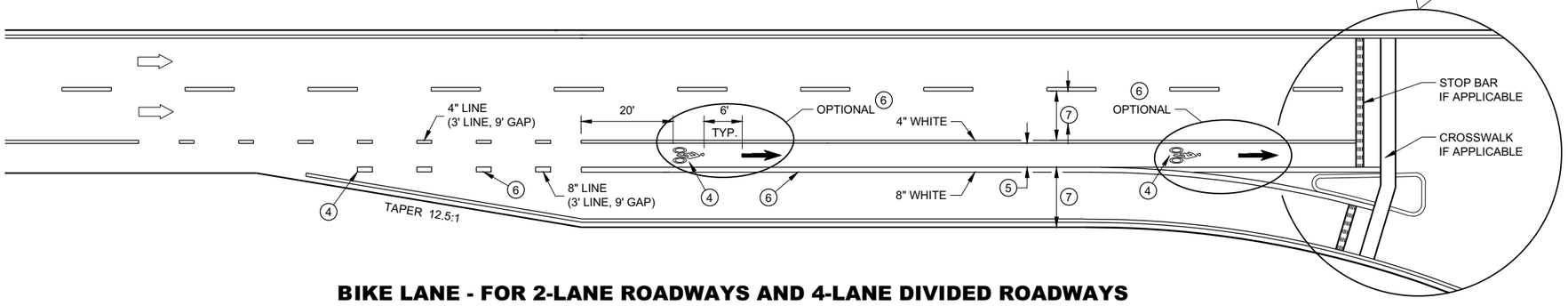
DESIGNATED BIKE LANE - NO PARKING



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BIKE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2020
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAR ENGINEER

FHWA

6

SDD 15C29 - 07a

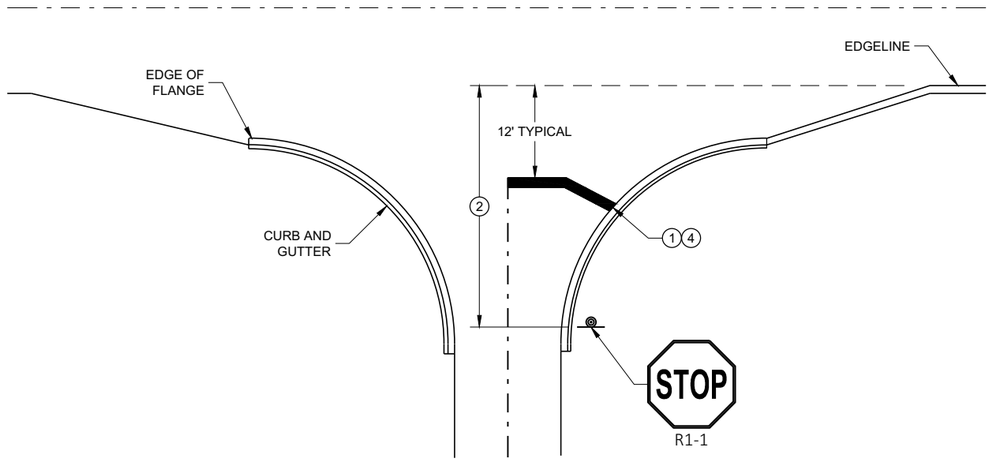
6

SDD 15C29 - 07a

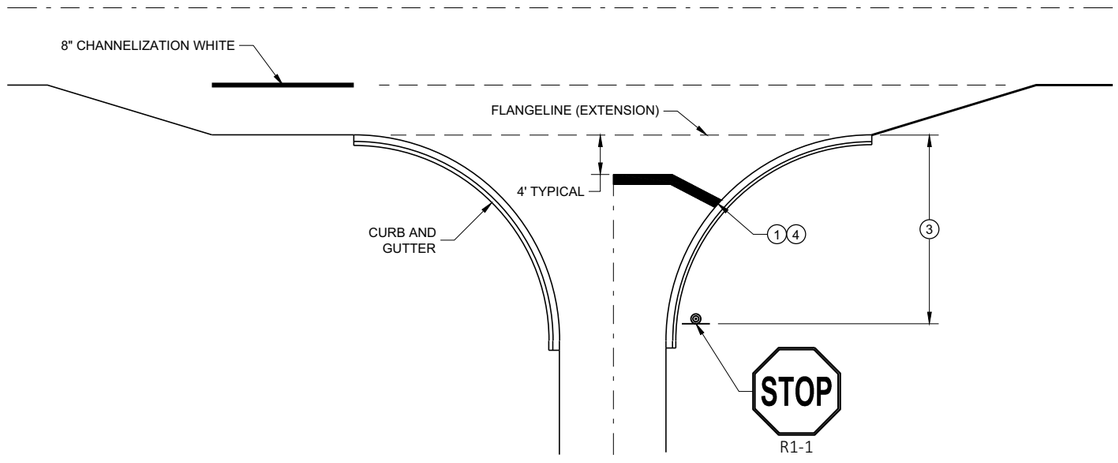
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

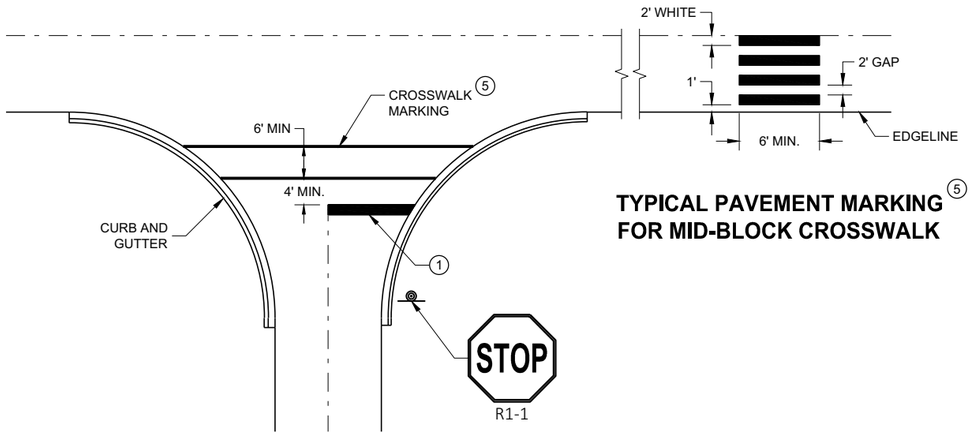
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

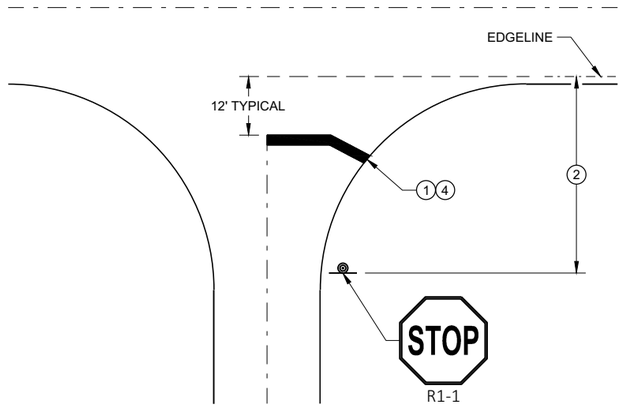


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

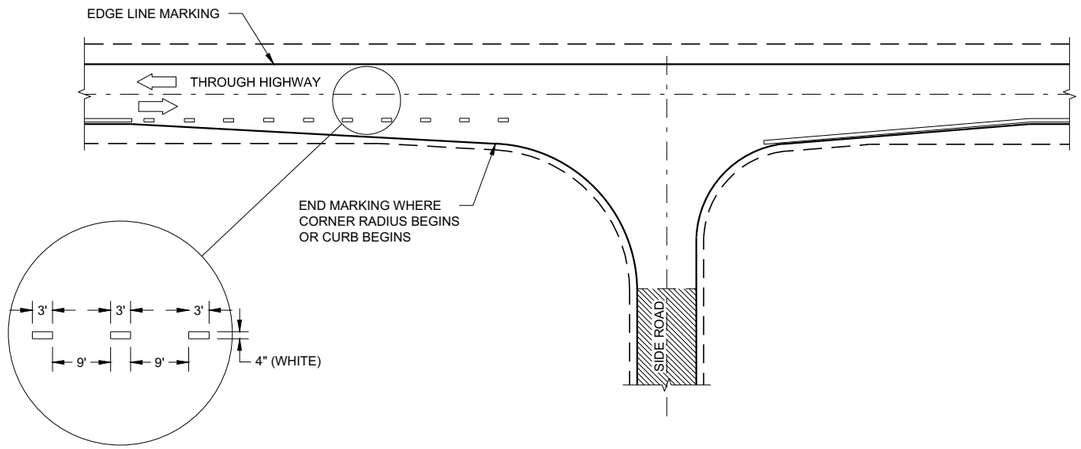
FHWA

6

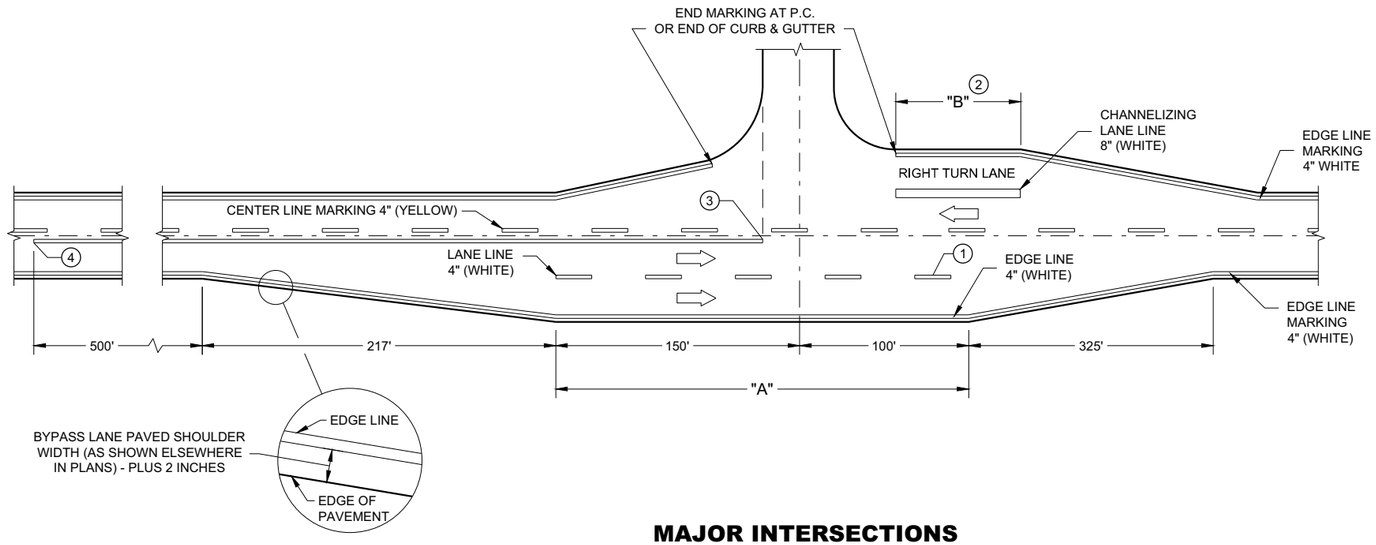
SDD 15C33 - 04

6

SDD 15C33 - 04



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

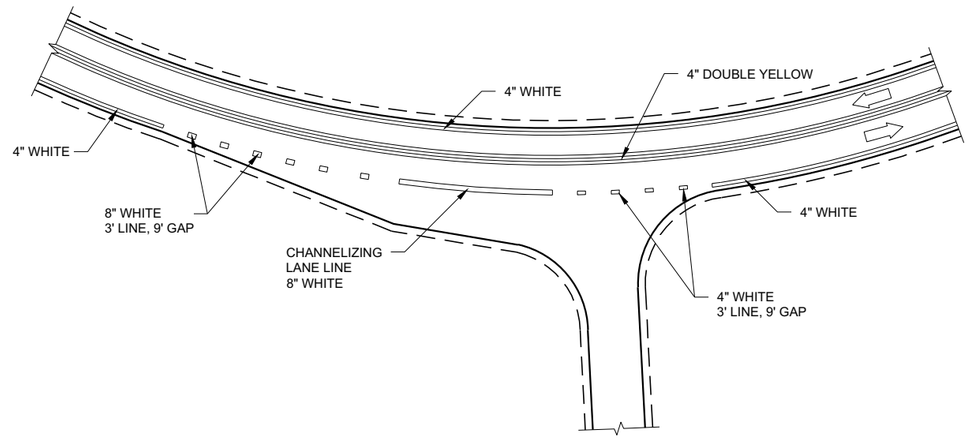
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES 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. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C35 - 04a

6

SDD 15C35 - 04a

LEGEND

SIGN ON PERMANENT SUPPORT

DELINEATOR, FLEXIBLE/TUBULAR MARKER

DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50 FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4 INCH DOUBLE YELLOW.



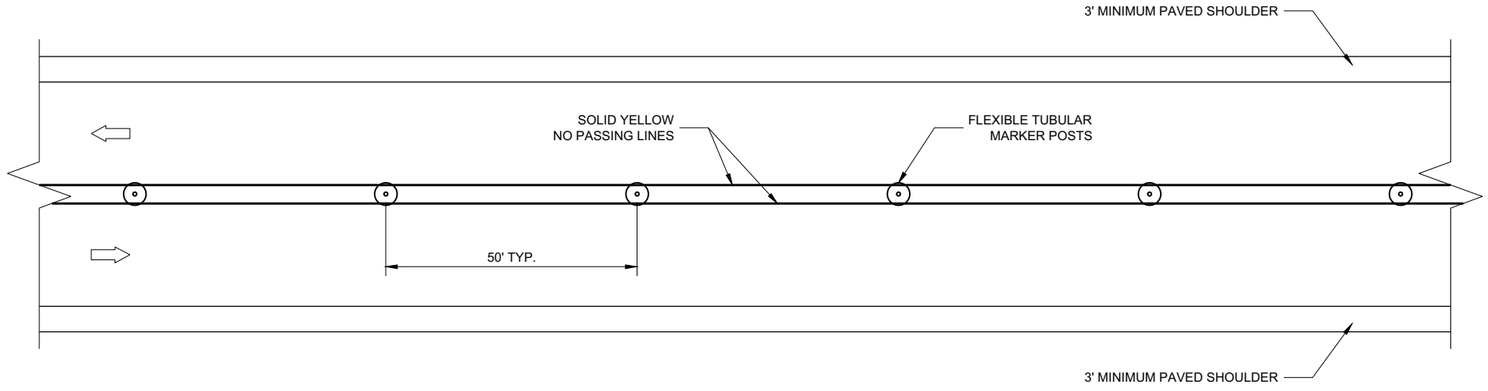
(1)



(2)

(1) THE WO6-3 AND WO57-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND / OR 500 FEET BEYOND ANY SIDE ROAD. THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE WO6-3 AND THE WO57-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN THE SIGNS.

(2) CONVENTIONAL: 24" X 30"
FREEWAY AND EXPRESSWAY: 36" X 48"



TWO LANE, TWO WAY OPERATION

6

6

SDD 15D06 - 04

SDD 15D06 - 04

TRAFFIC CONTROL
TWO LANE TWO WAY
OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

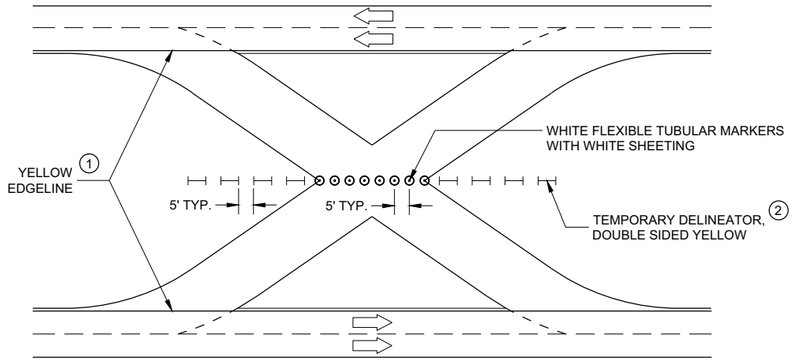
APPROVED
February 2020
DATE

/S/ Andrew Heidtke
STATE TRAFFIC ENGINEER O 352

FHWA

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- DELINEATOR FLEXIBLE / TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST WITH SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
- TEMPORARY DELINEATOR (DOUBLE SIDED)
- TYPE "A" WARNING LIGHT (FLASHING)
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK AREA



TRAFFIC CONTROL FOR CROSSOVER THAT IS NOT IN USE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

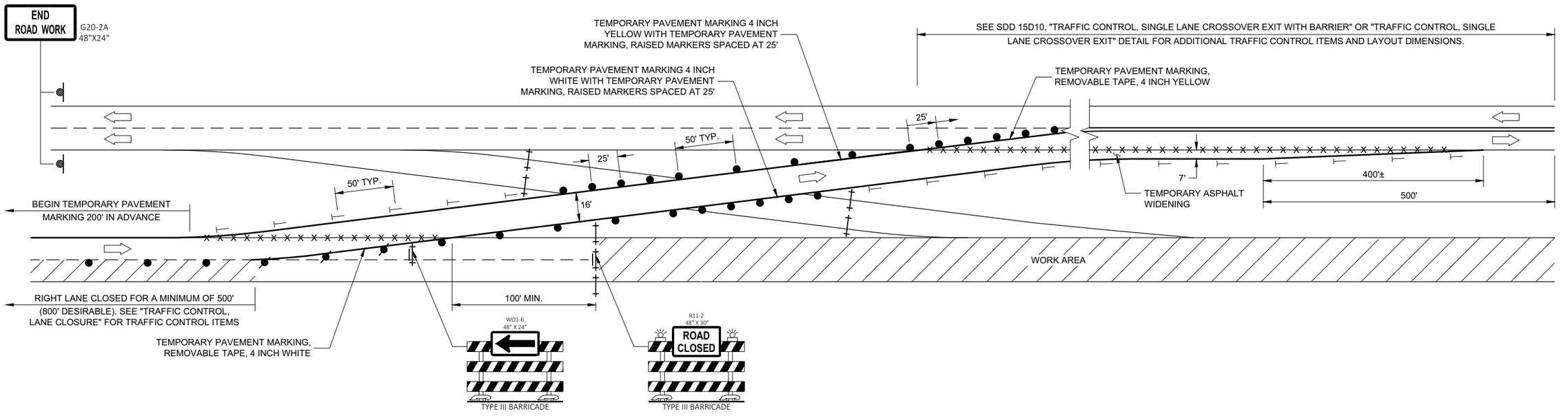
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

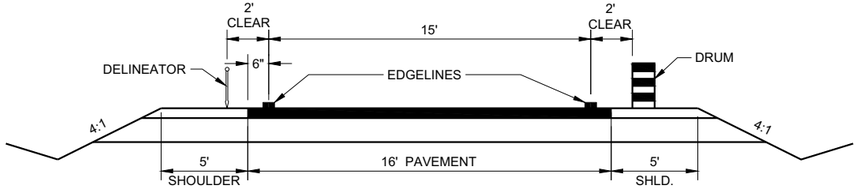
THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE SHALL BE USED WHEN CROSSING PERMANENT ROADWAY SURFACES THAT WILL REMAIN AFTER USED OF CROSSOVER AND TEMPORARY PAVEMENT MARKING WHERE USED.

REVERSE DEVICES WHEN OTHER LEG OF CROSSOVER IS IN USE.

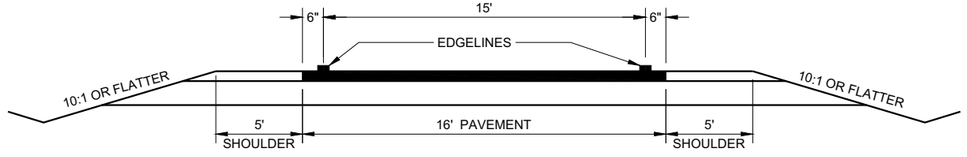
1. FOR PERMANENT CROSSOVER, PAVEMENT MARKING SHOULD CONFORM TO SECTION 646 OF THE STANDARD SPECIFICATIONS.
2. FOR PERMANENT CROSSOVER, INSTALL PERMANENT DELINEATORS ACCORDING TO SECTION 633 OF THE STANDARD SPECIFICATIONS.





TYPICAL TEMPORARY CROSSOVER ROADWAY DIMENSIONS

(SEE PLAN FOR ROADWAY DESIGN ELEMENTS)



TYPICAL CROSSOVER TO REMAIN IN PLACE ROADWAY DIMENSIONS

(SEE PLAN FOR ROADWAY DESIGN ELEMENTS)

TRAFFIC CONTROL, SINGLE LANE CROSSOVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15D11 - 07

SDD 15D11 - 07

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

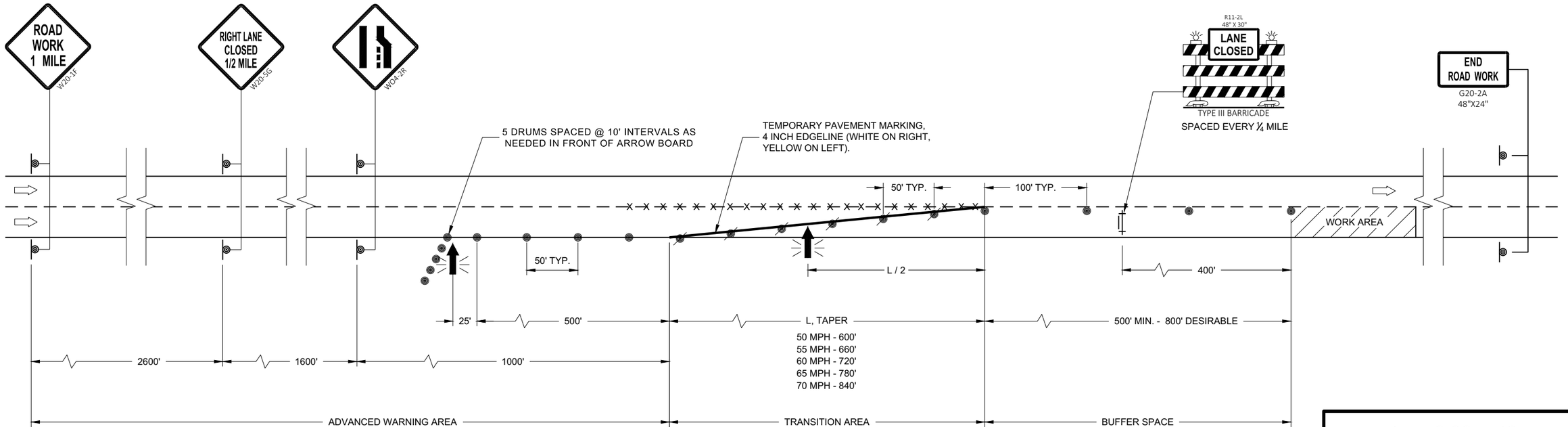
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D12 - 09a

6

SDD 15D12 - 09a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

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.

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 REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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 TEMPORARY SUPPORTS.

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 TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, 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.

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.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

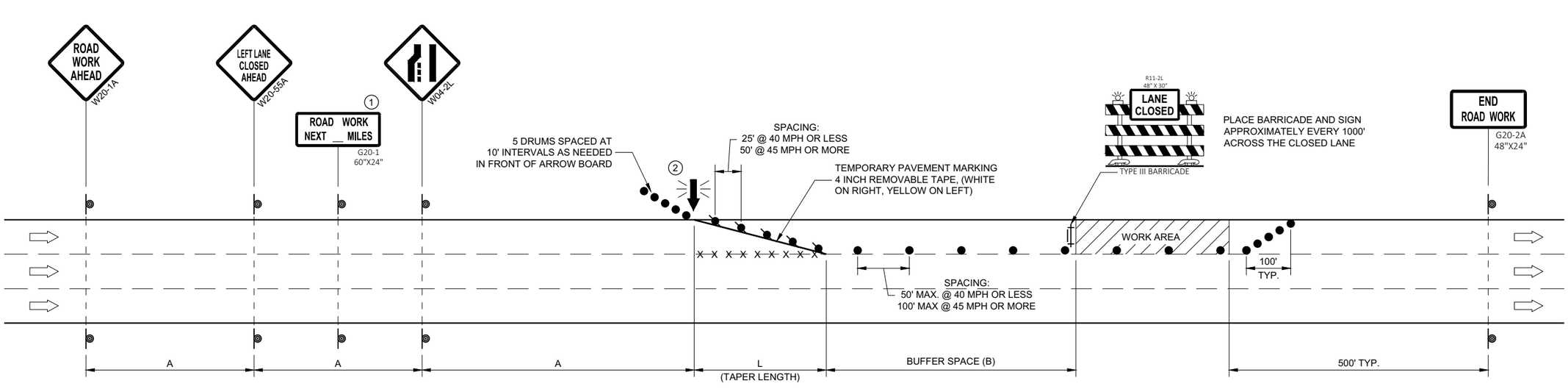
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

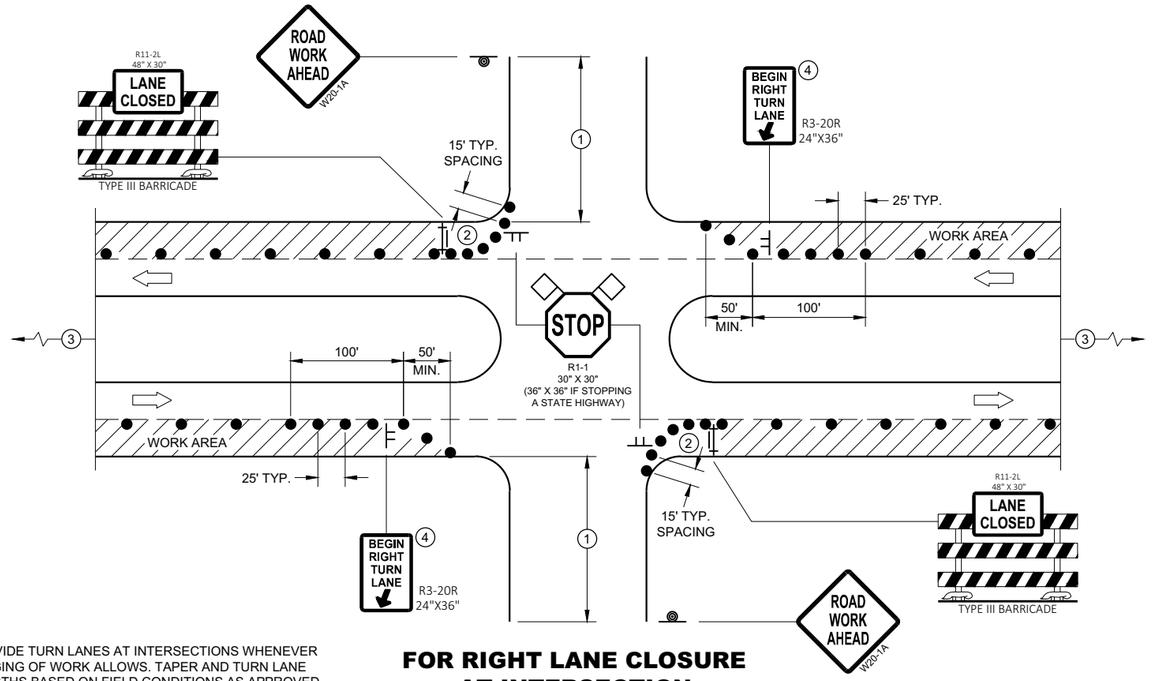
TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER
FHWA

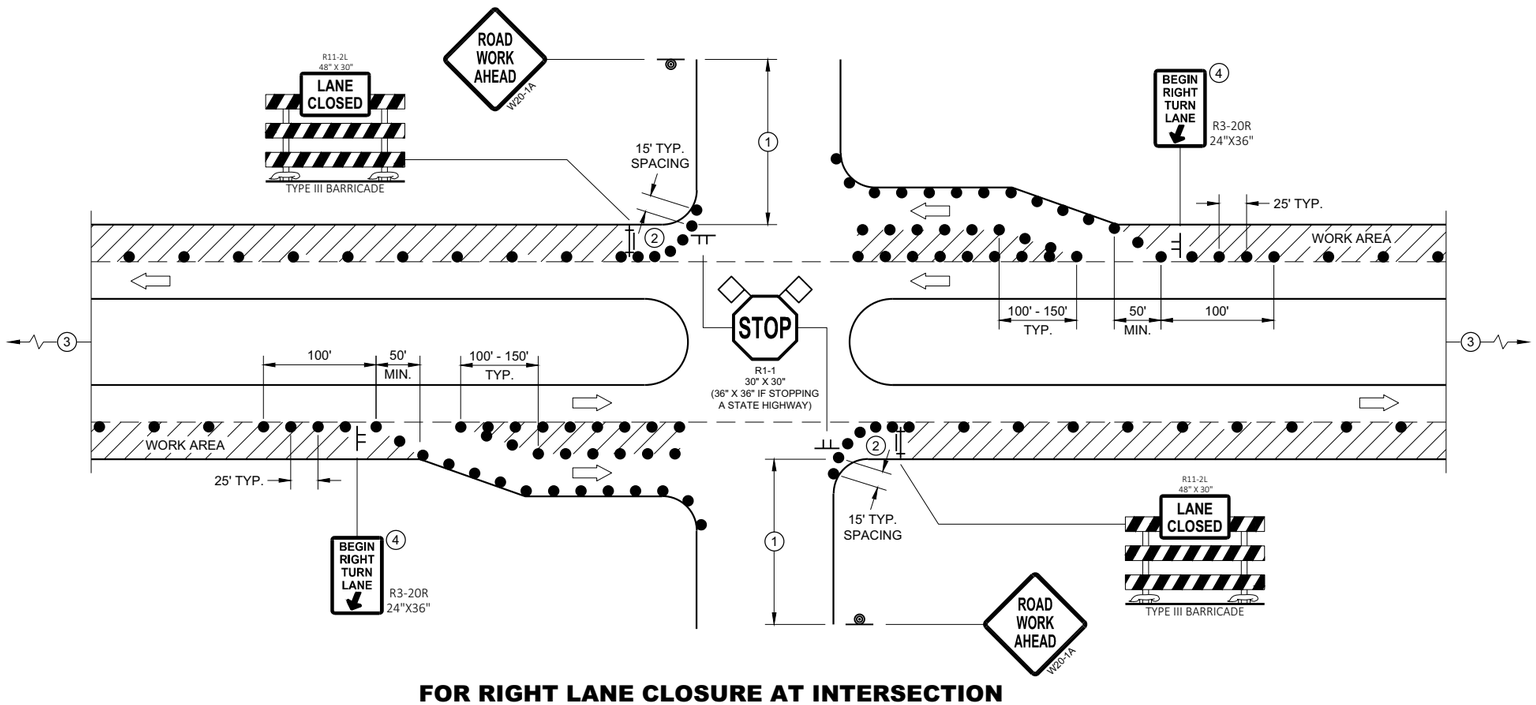
6

SDD15D20 - 05a



FOR RIGHT LANE CLOSURE AT INTERSECTION

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(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.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

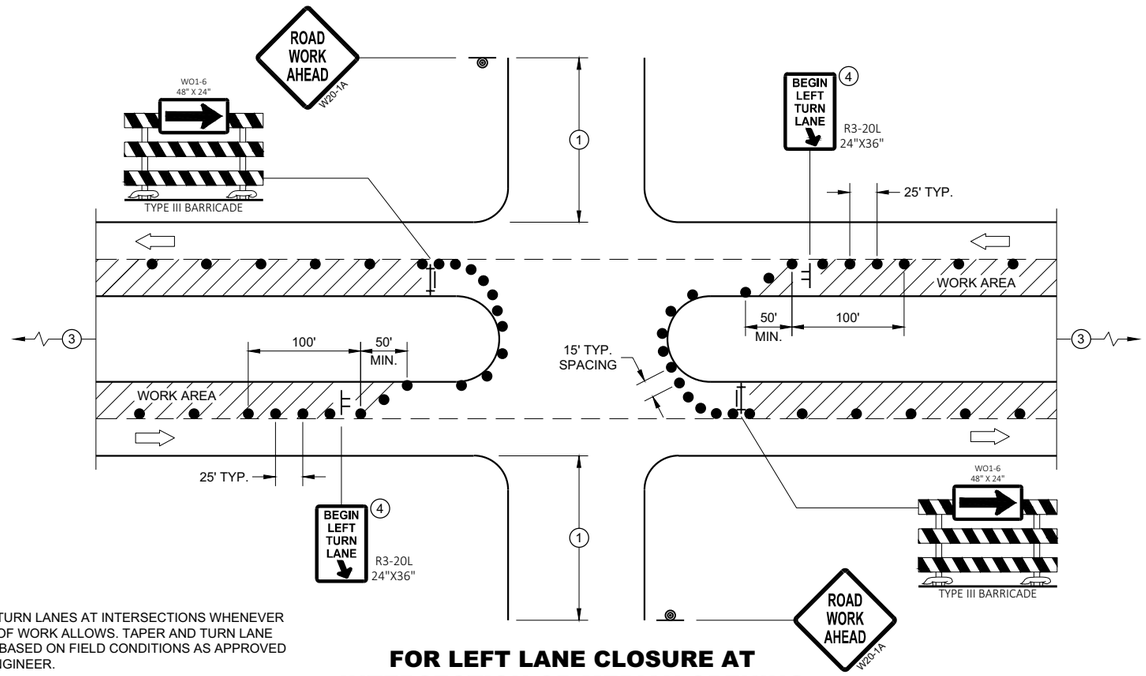
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D21 - 07a

6

SDD 15D21 - 07a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

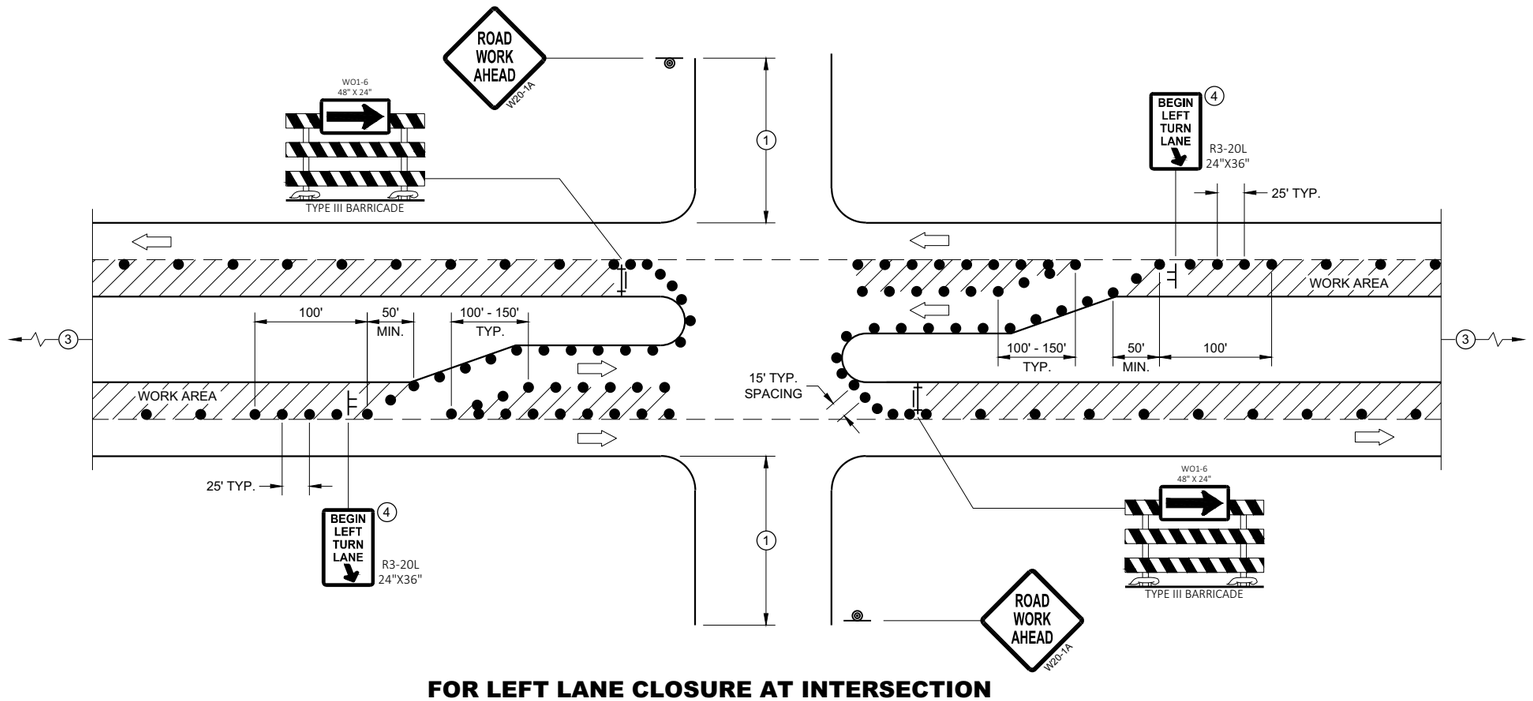
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(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.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

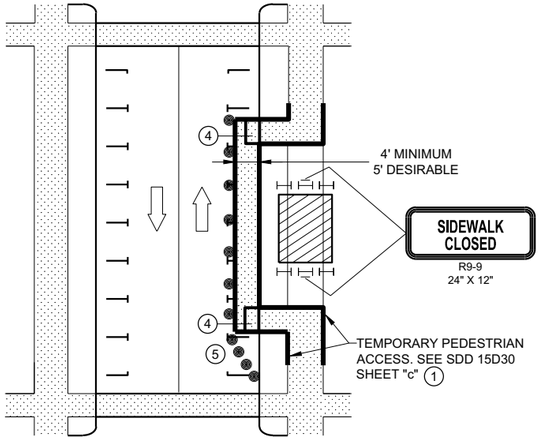
6

SDD 15D21 - 07b

6

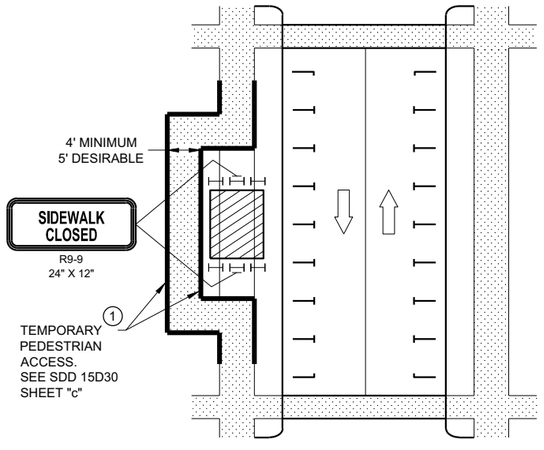
SDD 15D21 - 07b

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

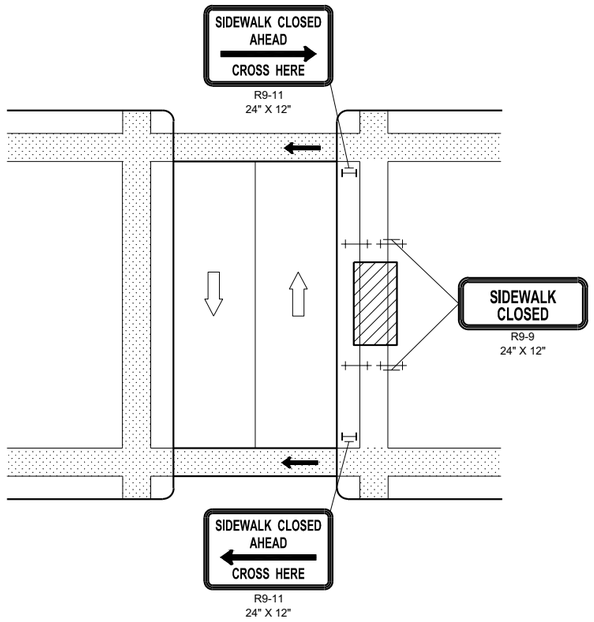


MID-BLOCK SIDEWALK SIDEWALK CLOSURE IN PARKING LANE

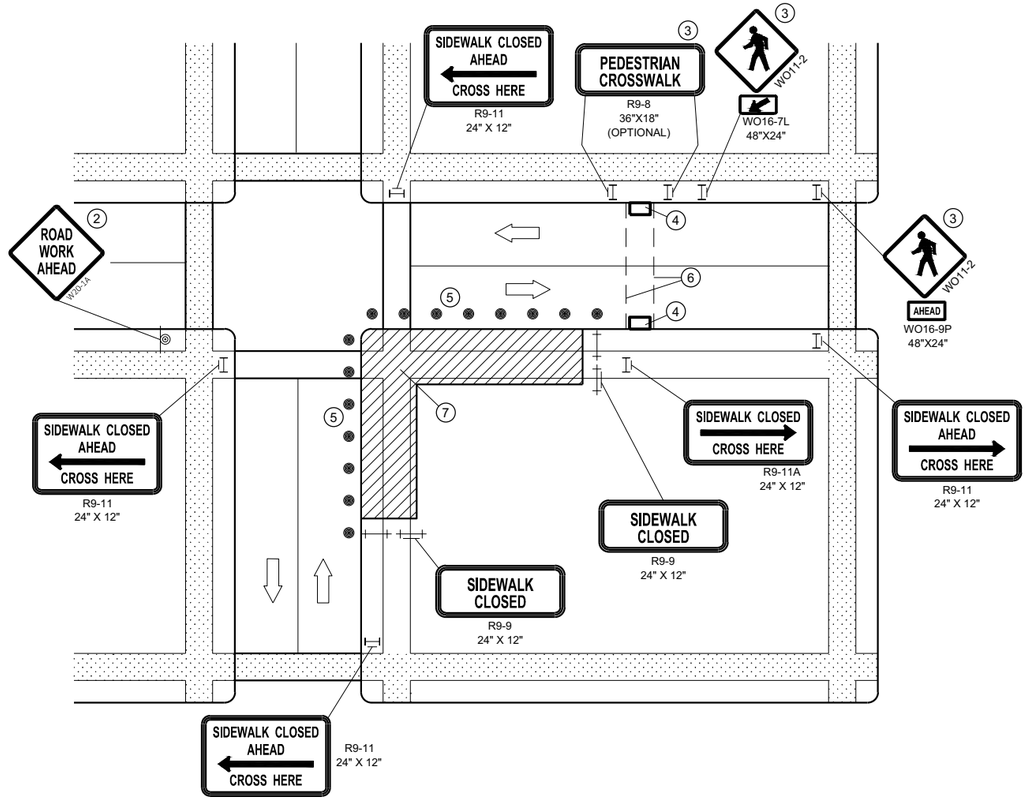
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

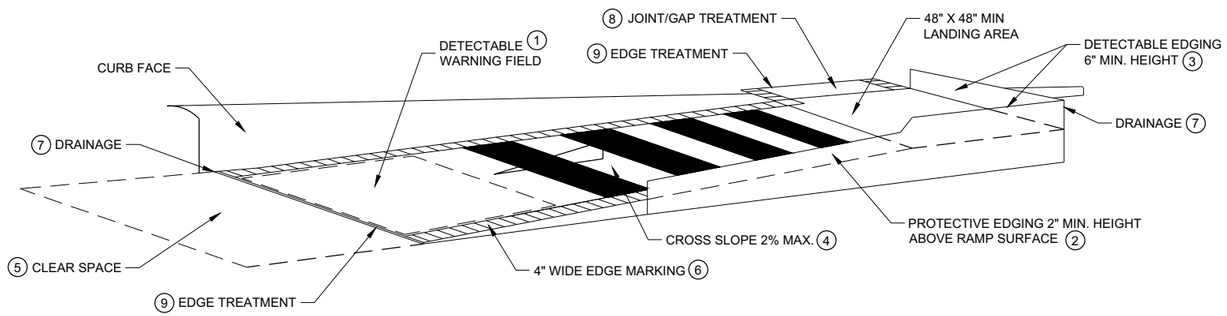
1. IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
2. "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
3. IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
4. TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.
5. DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
6. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
7. LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

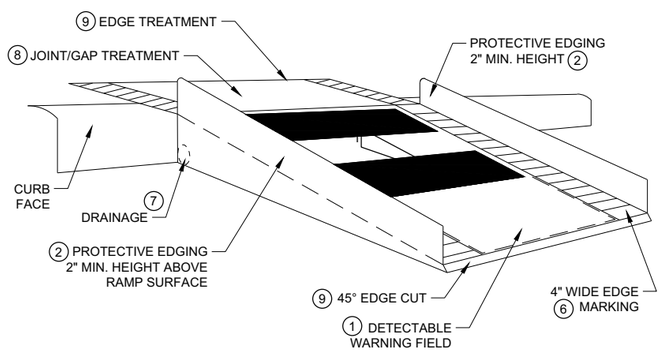
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

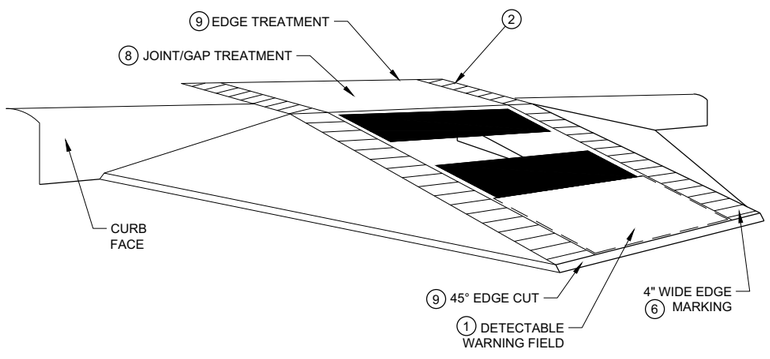
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



TEMPORARY CURB RAMP PARALLEL TO CURB



WITH PROTECTIVE EDGE



WITH SIDE APRON

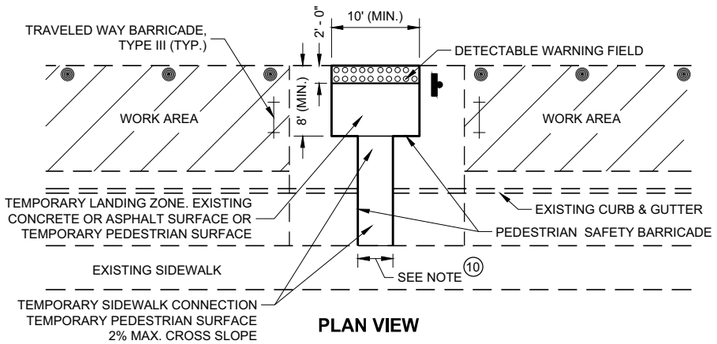
TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

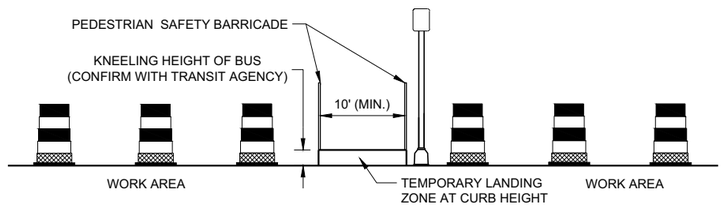
NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
5. CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
10. 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

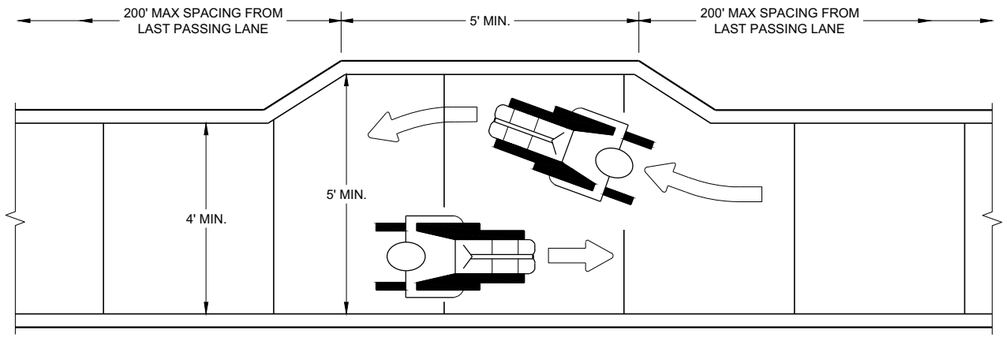
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

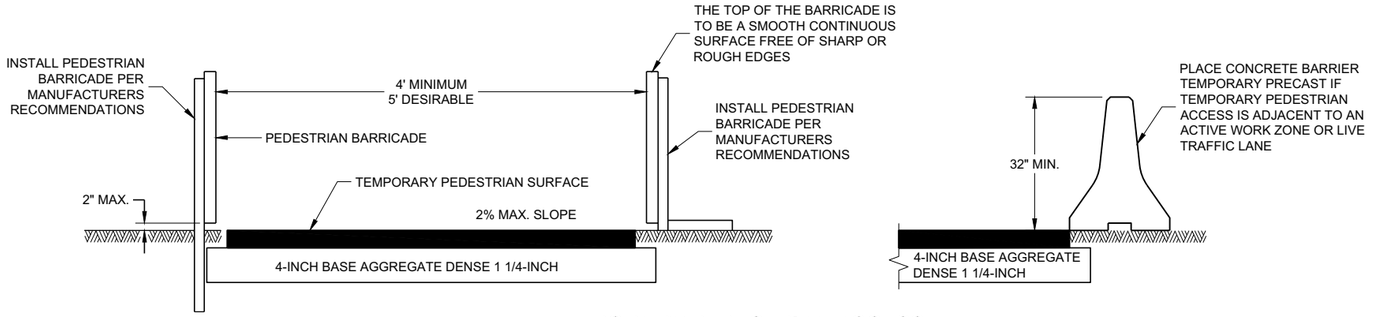
SDD 15D30 - 06b

6

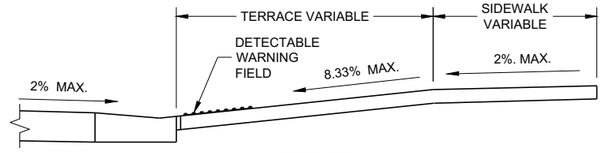
SDD 15D30 - 06b



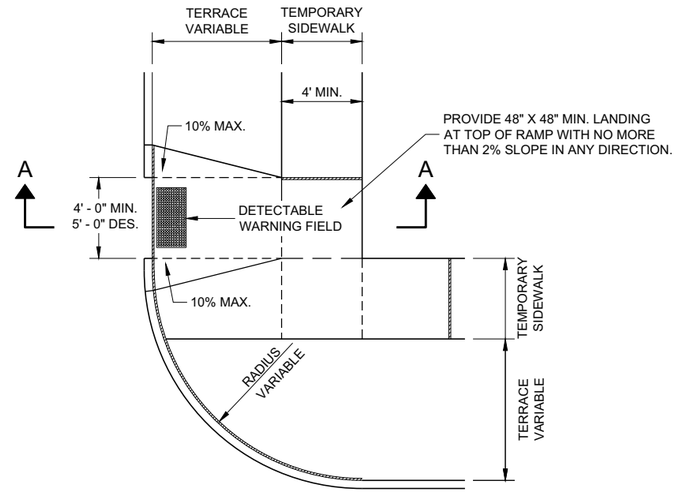
NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN ACCESS



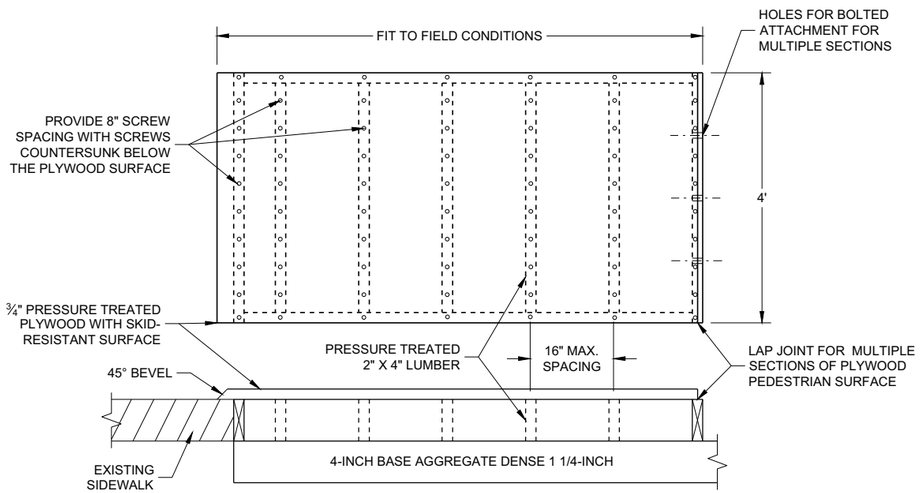
SECTION A - A



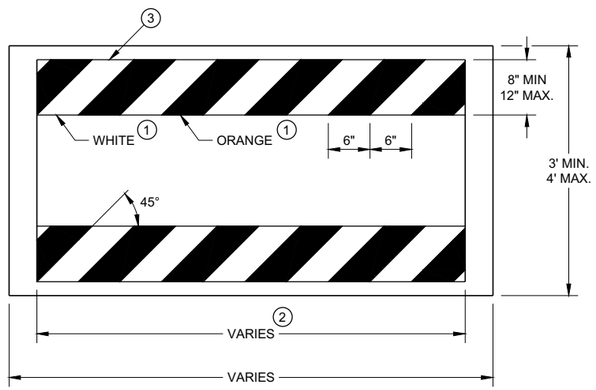
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

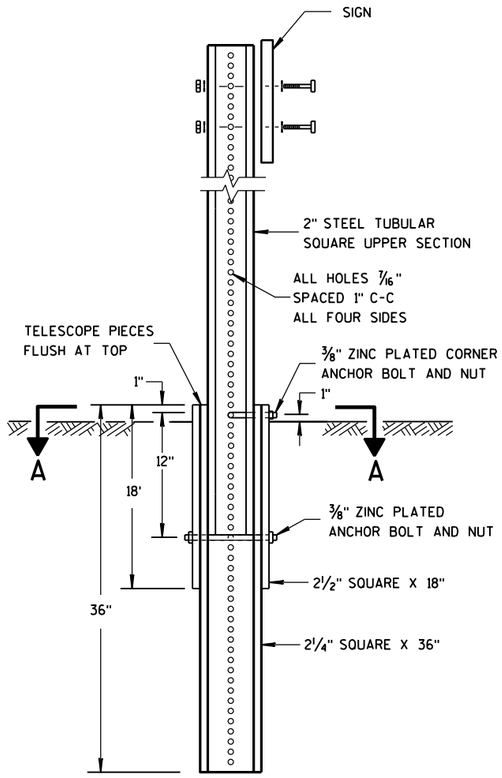
/S/ Andrew Heidtke
WORK ZONE ENGINEE 360

FHWA

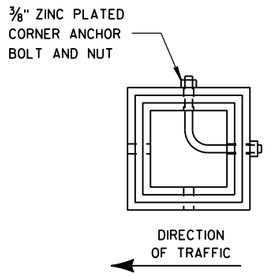
SDD 15D30 - 06c

6

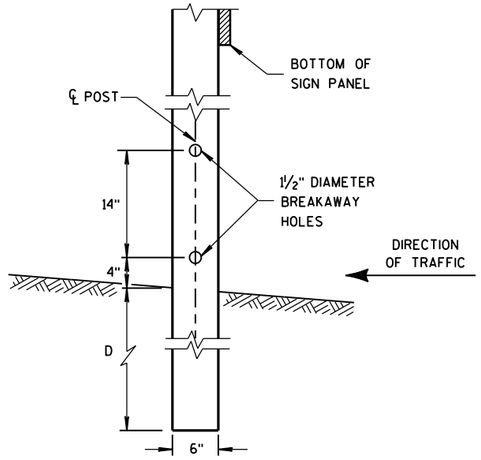
SDD 15D30 - 06c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



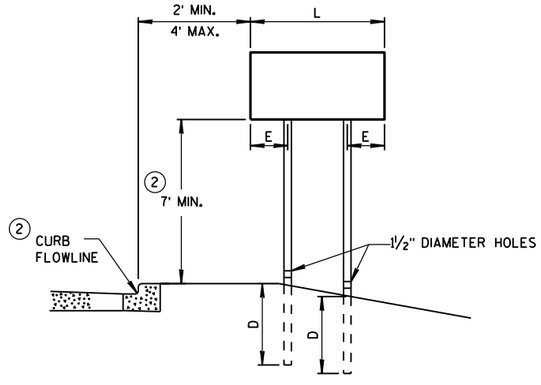
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

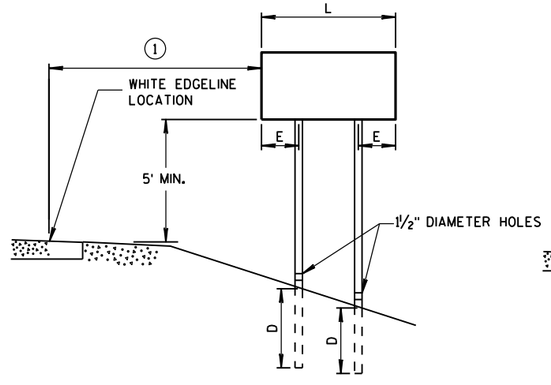
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

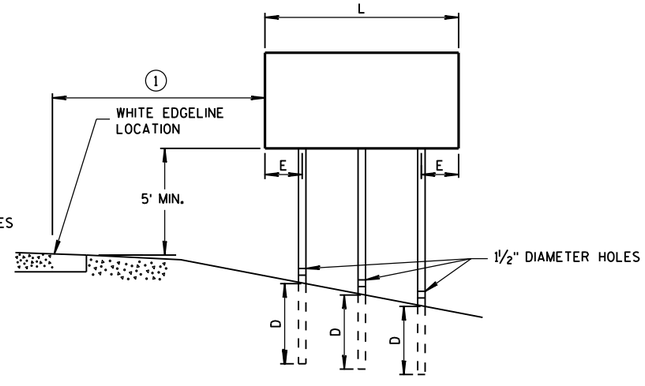
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK 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

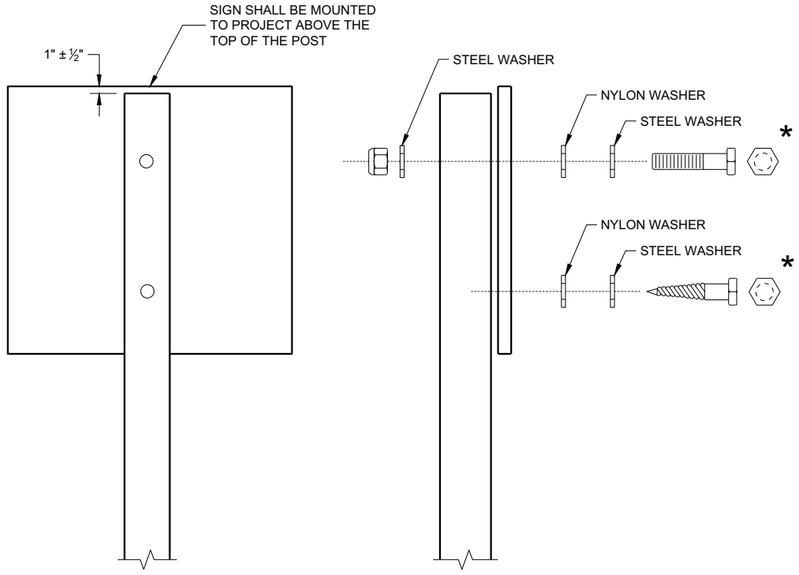
POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 15 D 38-2a



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 POST (4" x 6")
LAG SCREWS - ⅜" x 3"
MACHINE BOLTS - 5/16" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - ⅜" x 3 ¼" LENGTH W/NUTS
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 ¼" O.D. x ⅜" I.D. x 1/16" STEEL
1 ¼" O.D. x ⅜" I.D. x 0.080 NYLON

* 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

SDD 15D38 - 02b

SDD 15D38 - 02b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

LEGEND

- EXISTING SIGN ON PERMANENT SUPPORT
- NEW SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES

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

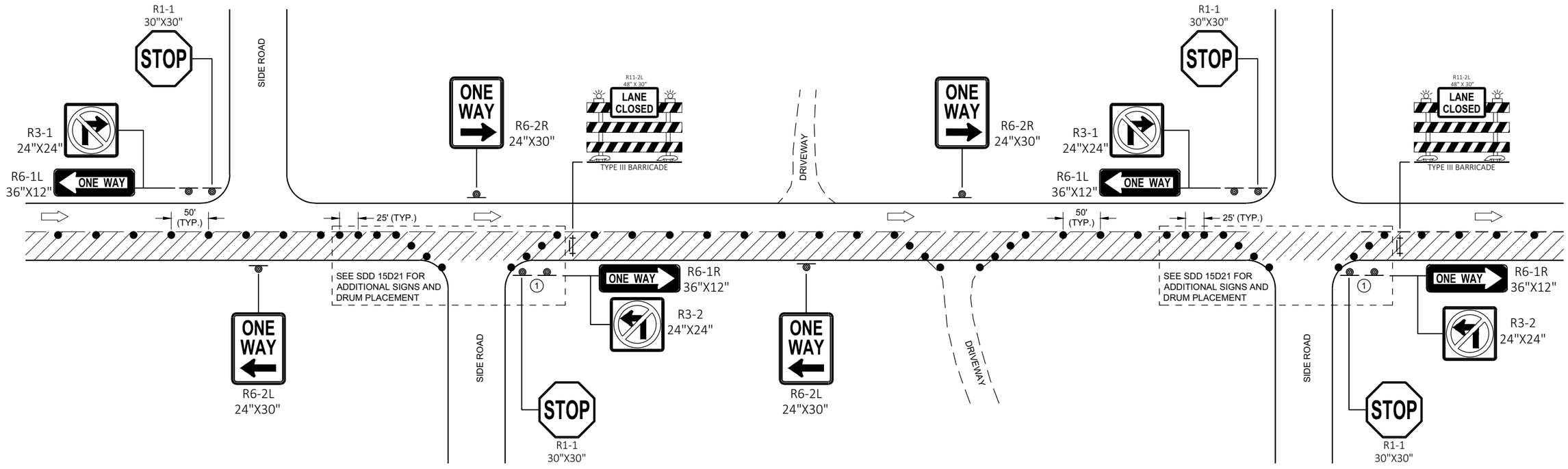
ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED 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.

(1) IF WORK OPERATIONS ALLOWS, MOVE R1-1, R6-1R, AND R3-2 CLOSER TO INTERSECTION.



TRAFFIC CONTROL
ONE - WAY SIGNING

TRAFFIC CONTROL
ONE-WAY SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

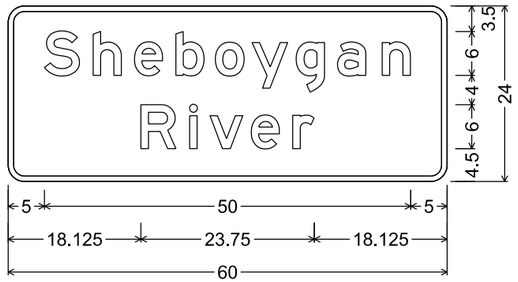
FHWA

SDD 15D46 - 01

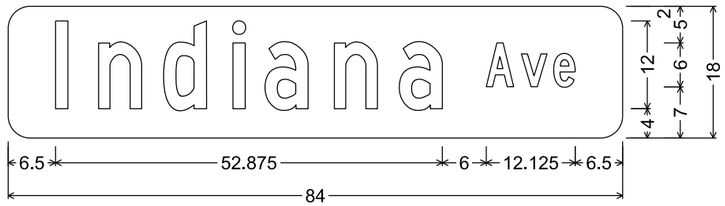
SDD 15D46 - 01

NOTES

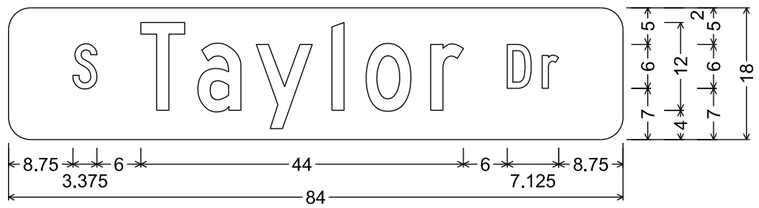
1. Signs are Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted



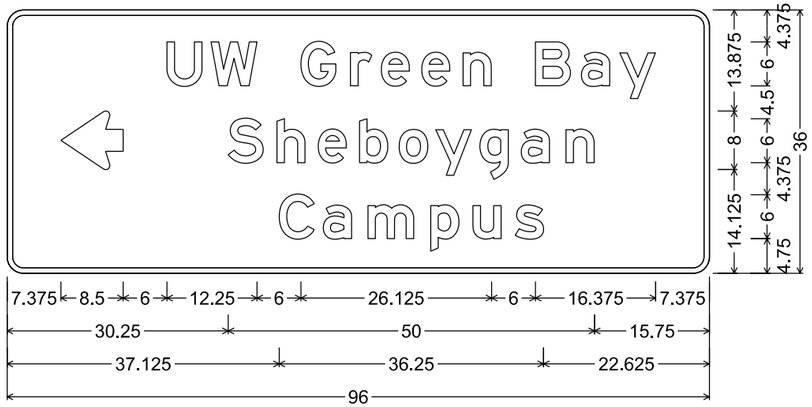
I3-1; 2.250" Radius, 0.750" Border



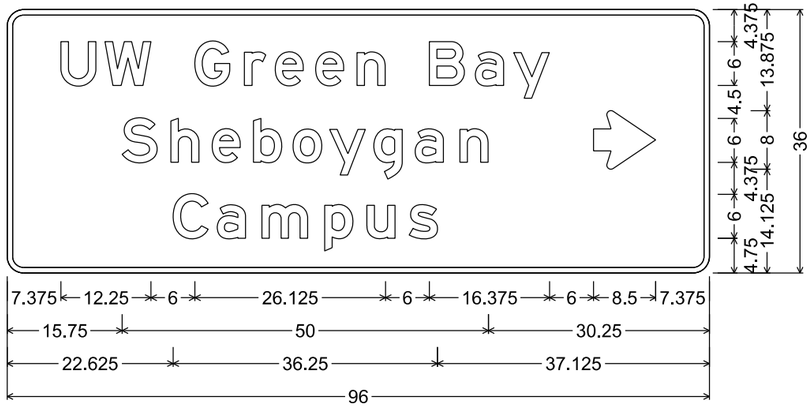
M1-94H; 3.000" Radius, No border,
"Indiana", C; "Ave", C



M1-94H; 3.000" Radius, No border,
"S", C; "Taylor", C; "Dr", C

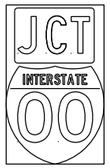


D1-3; 2.250" Radius, 0.750" Border

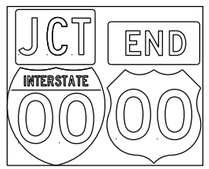


D1-3; 2.250" Radius, 0.750" Border

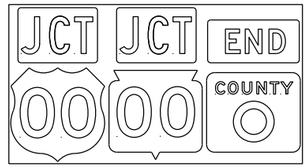
TYPICAL ASSEMBLIES



J1-1



J1-2



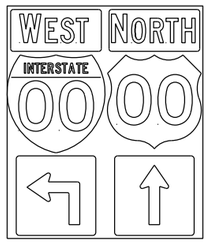
J1-3



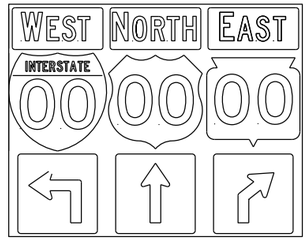
JR1-1



J2-1



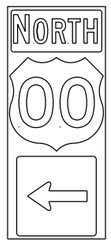
J2-2



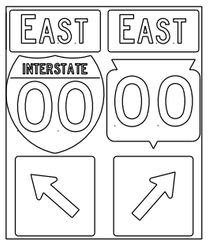
J2-3



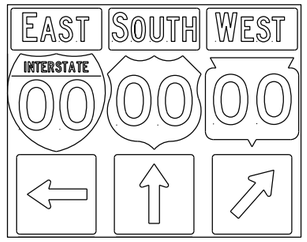
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



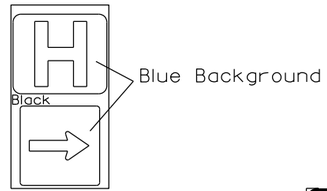
J3-1



J3-2



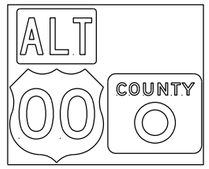
J3-3



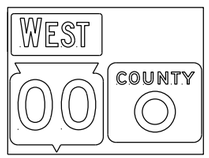
JH-1



J4-1



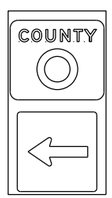
J4-2



J4-2



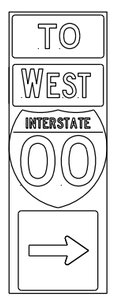
J12-1



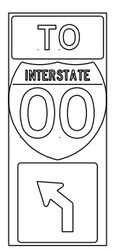
J13-1



J32-1



J33-1



J22-1



J23-1



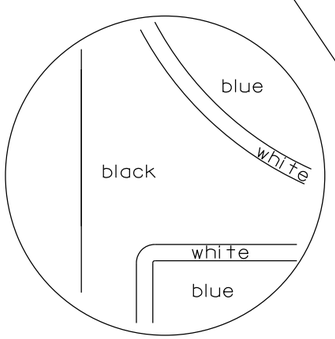
JR13-1

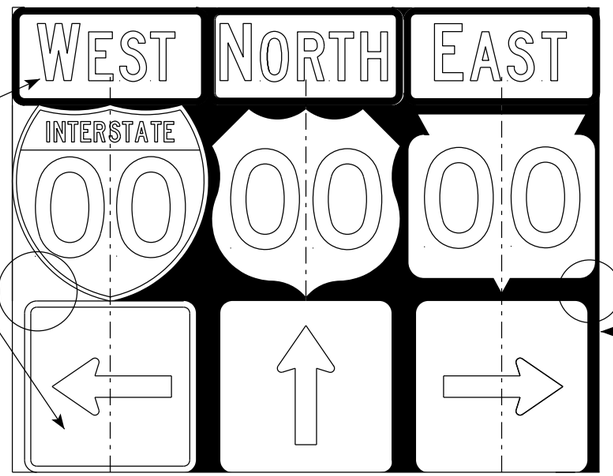


JR23-1



JR99-1





NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/21 PLATE NO. A2-1S.9

PROJECT NO:

SHEET NO: 365 E

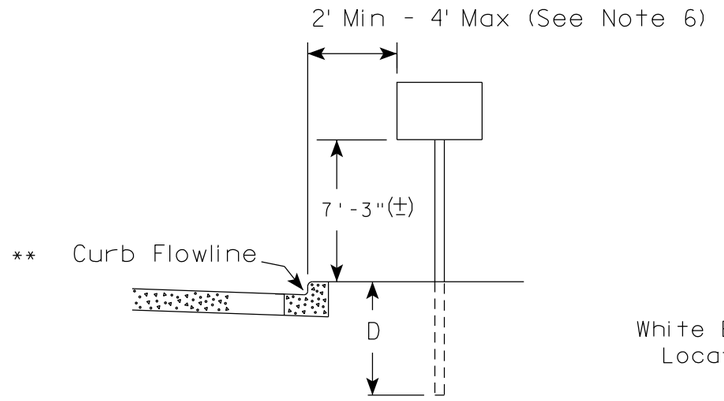
FILE NAME : C:\CAEfiles\Projects\tr_stdplate_A21S.dgn PLOT DATE : 18-MAR 2021 1:37 PLOT BY : mscj9h PLOT NAME :

WISDOT/CADDS SHEET 42

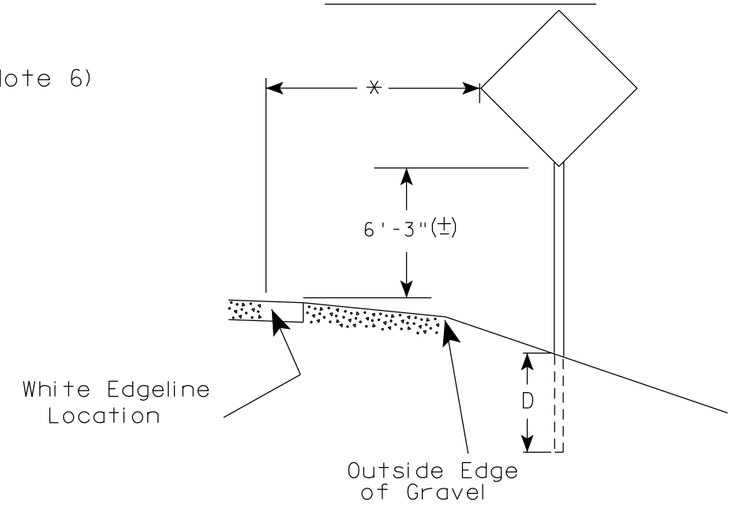
7

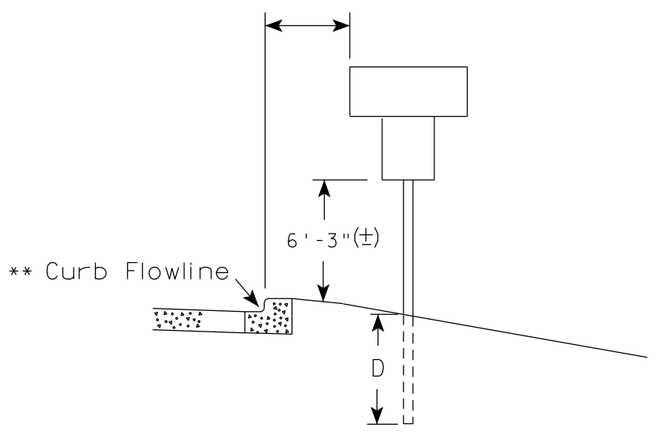
7

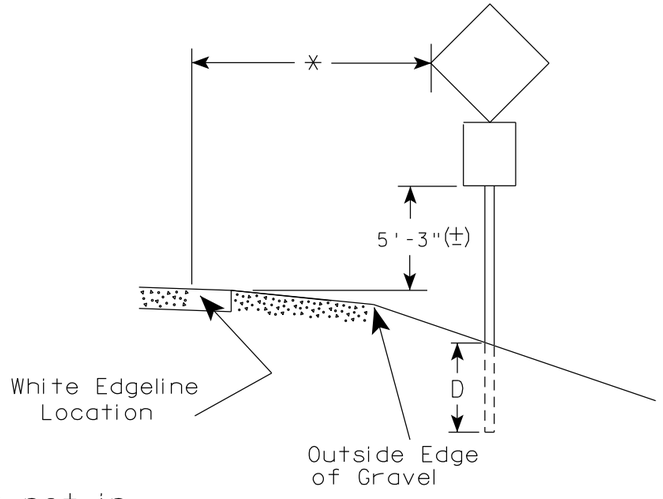
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) 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" (±).
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 signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

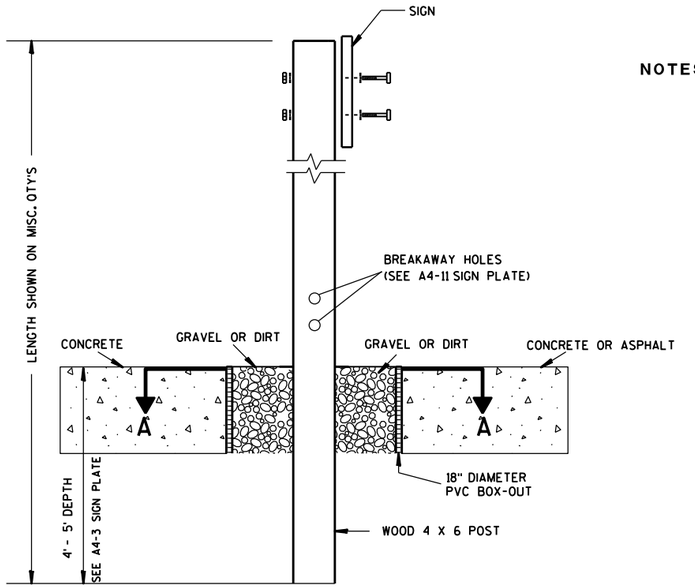
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

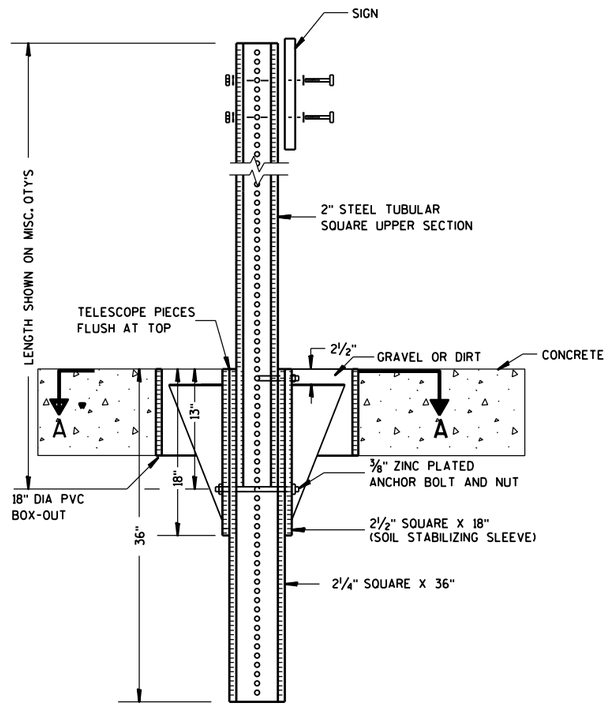
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 366	E



ELEVATION VIEW

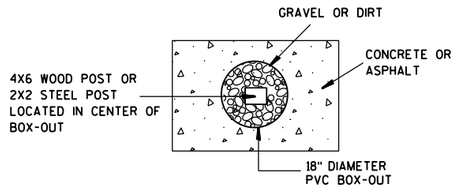
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

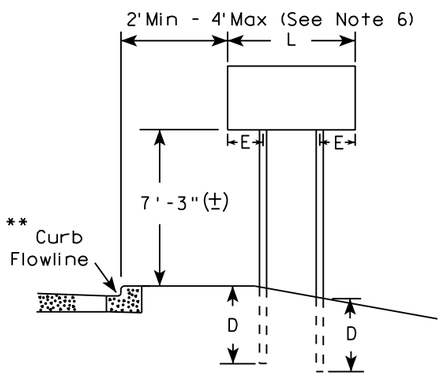
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

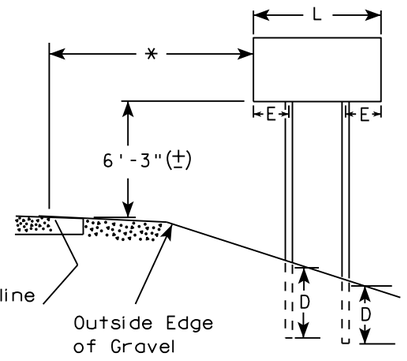
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

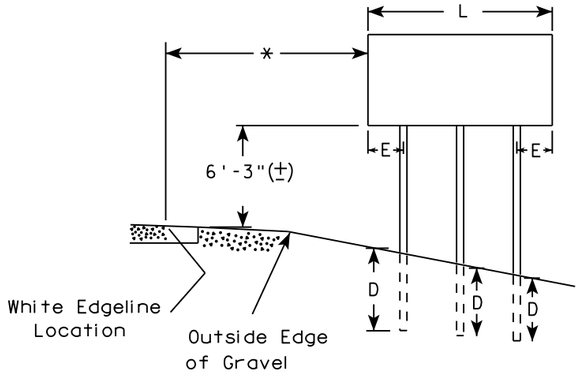
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

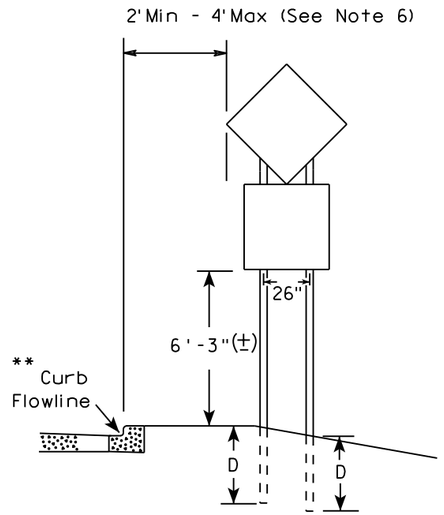
URBAN AREA



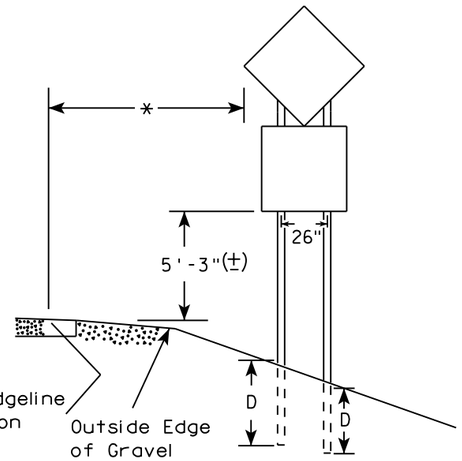
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

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. J-Assemblies are considered to be one sign for mounting height.
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.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

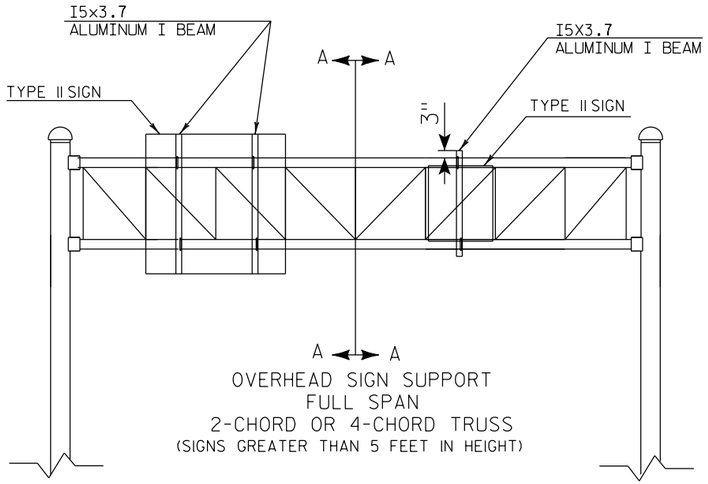
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

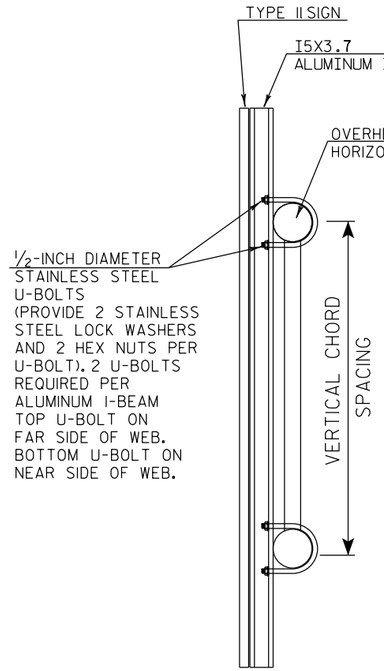
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

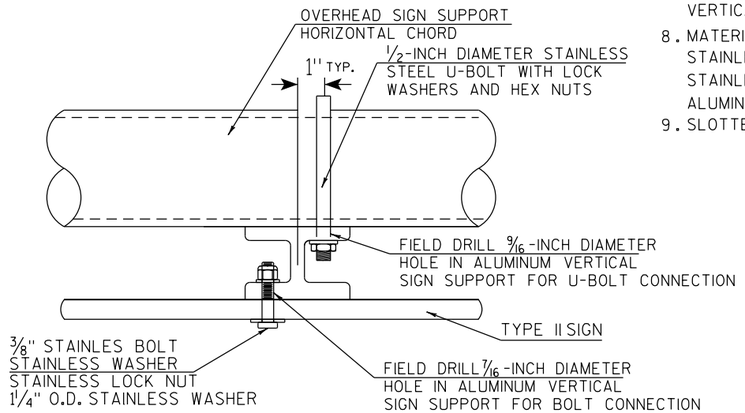
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 368	E



OVERHEAD SIGN SUPPORT
FULL SPAN
2-CHORD OR 4-CHORD TRUSS
(SIGNS GREATER THAN 5 FEET IN HEIGHT)



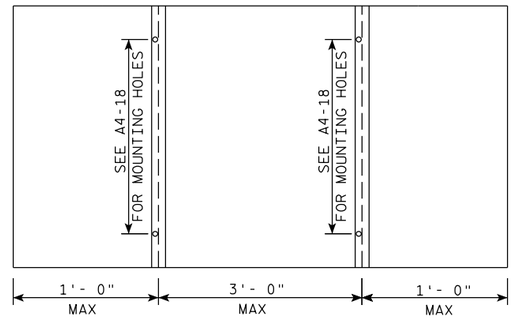
CUT SECTION A-A



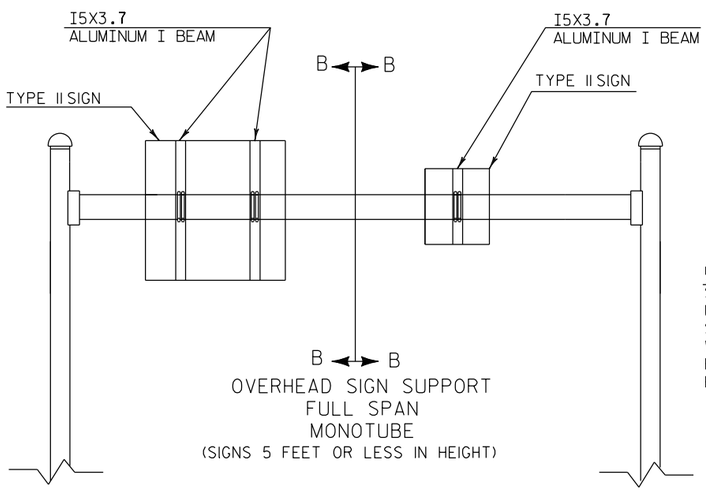
TYPICAL SIGN CONNECTION FOR
2-CHORD OR 4-CHORD TRUSS
PLAN VIEW

GENERAL NOTES

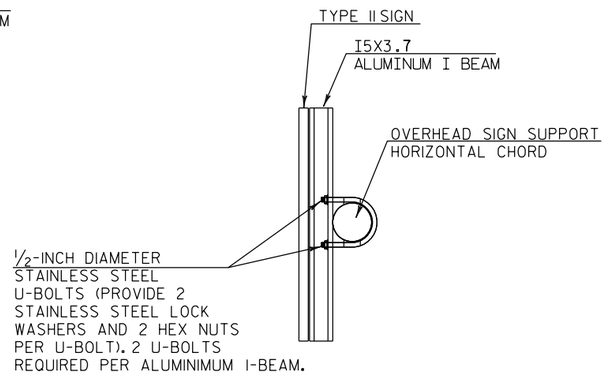
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE STAINLESS BOLTS AT BOLT HOLES IN SIGN PANEL PER SIGN PLATE A4-18.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO 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. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS, BOLTS, AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.
9. SLOTTED HOLES IN I-BEAMS ARE NOT ALLOWED



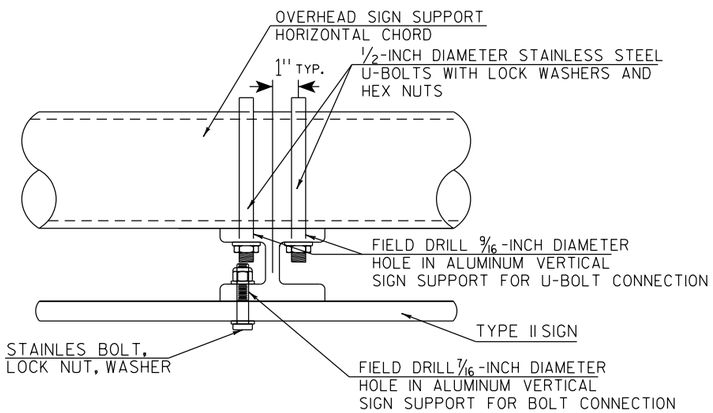
SPACING OF I5X3.7 ALUMINUM
MULTIPLE VERTICAL SIGN SUPPORTS



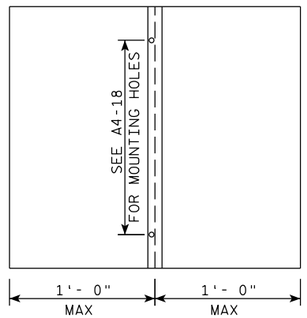
OVERHEAD SIGN SUPPORT
FULL SPAN
MONOTUBE
(SIGNS 5 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
MONOTUBE
PLAN VIEW



SPACING OF I5X3.7 ALUMINUM
SINGLE VERTICAL SIGN SUPPORT

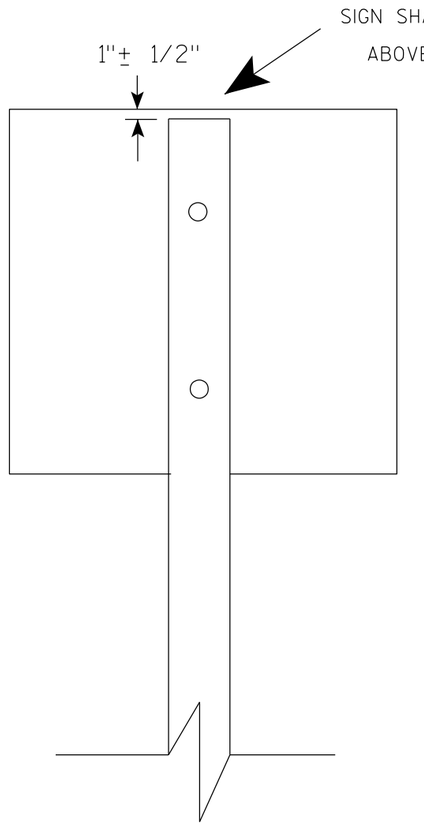
TYPE II SIGN CONNECTION
TO OVERHEAD SIGN SUPPORT

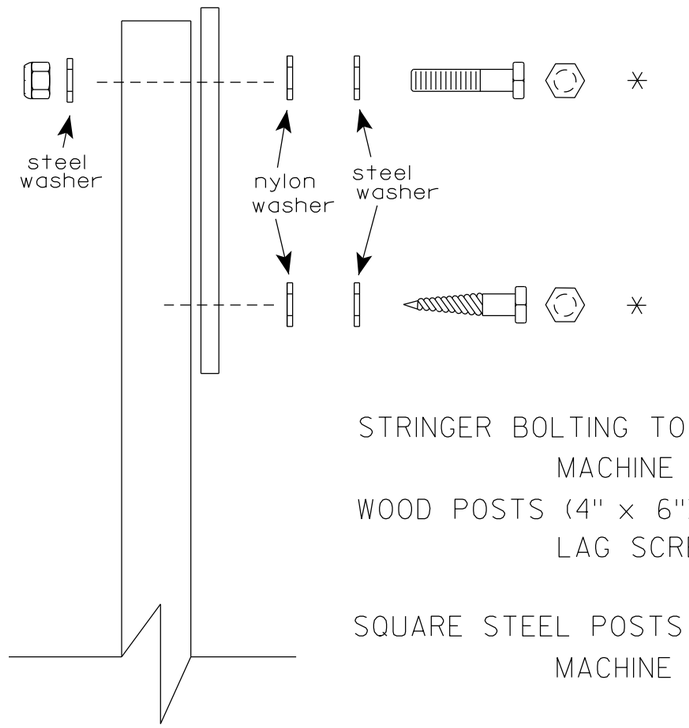
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/07/20 PLATE NO. A4-7B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 369	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.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

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

* 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

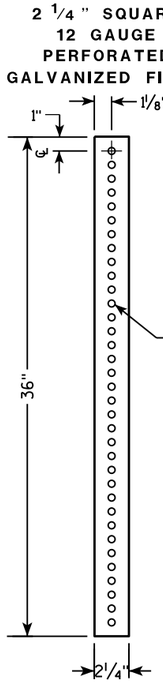
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

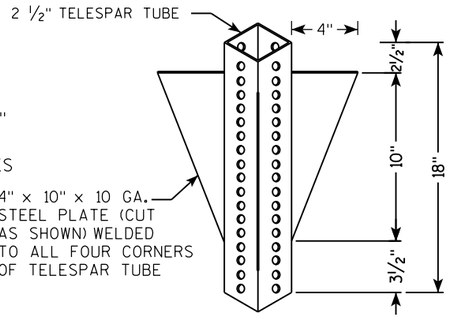
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

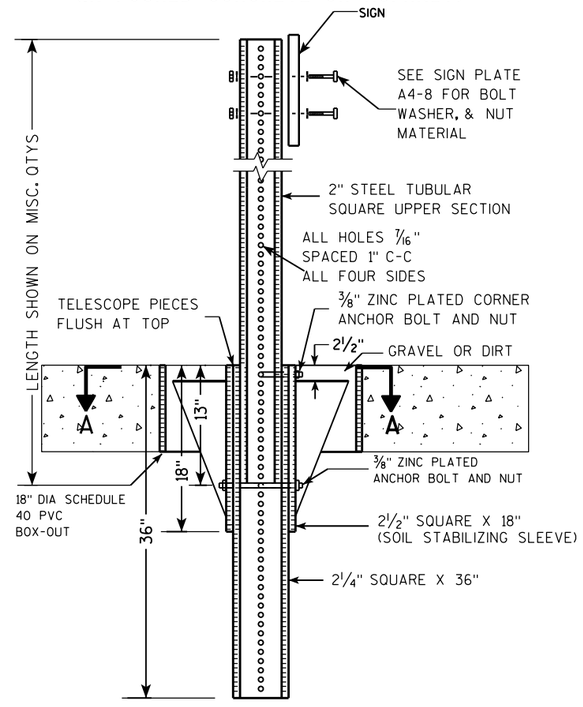
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



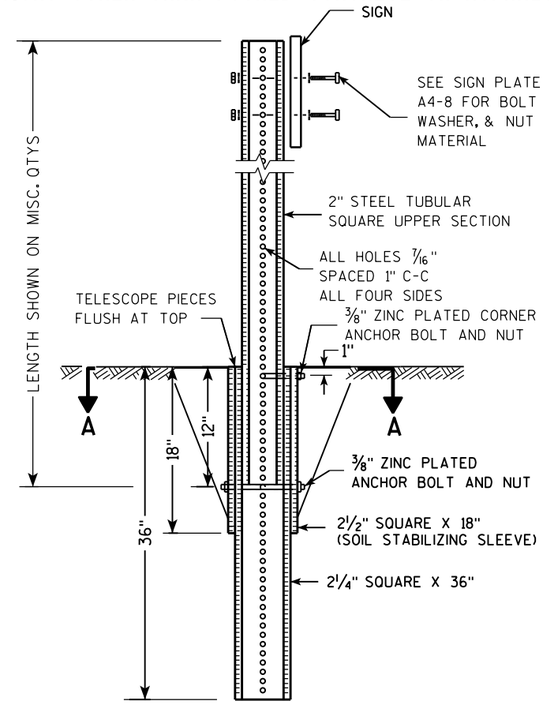
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

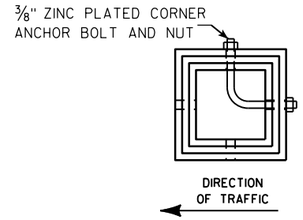


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

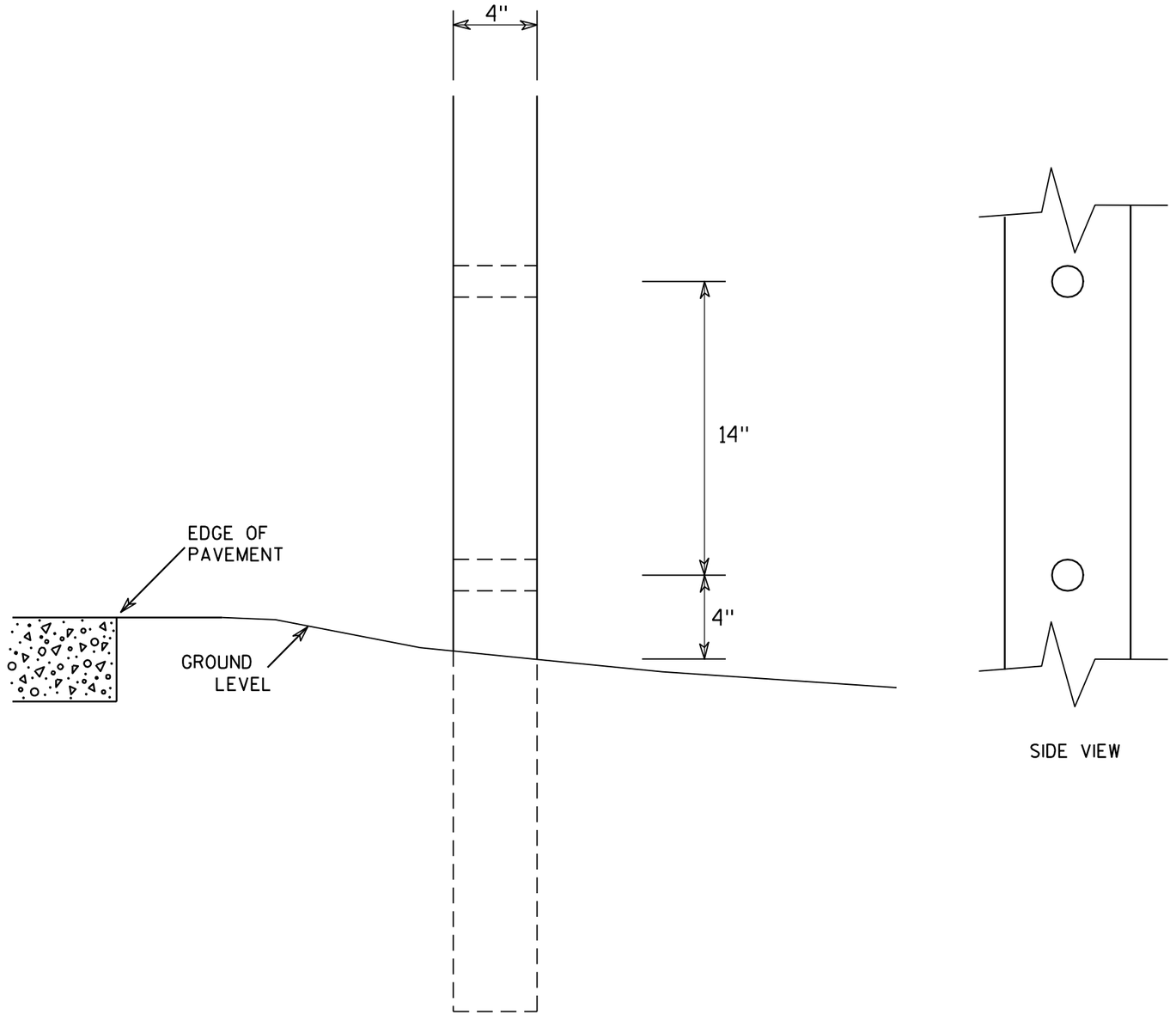
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000
WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

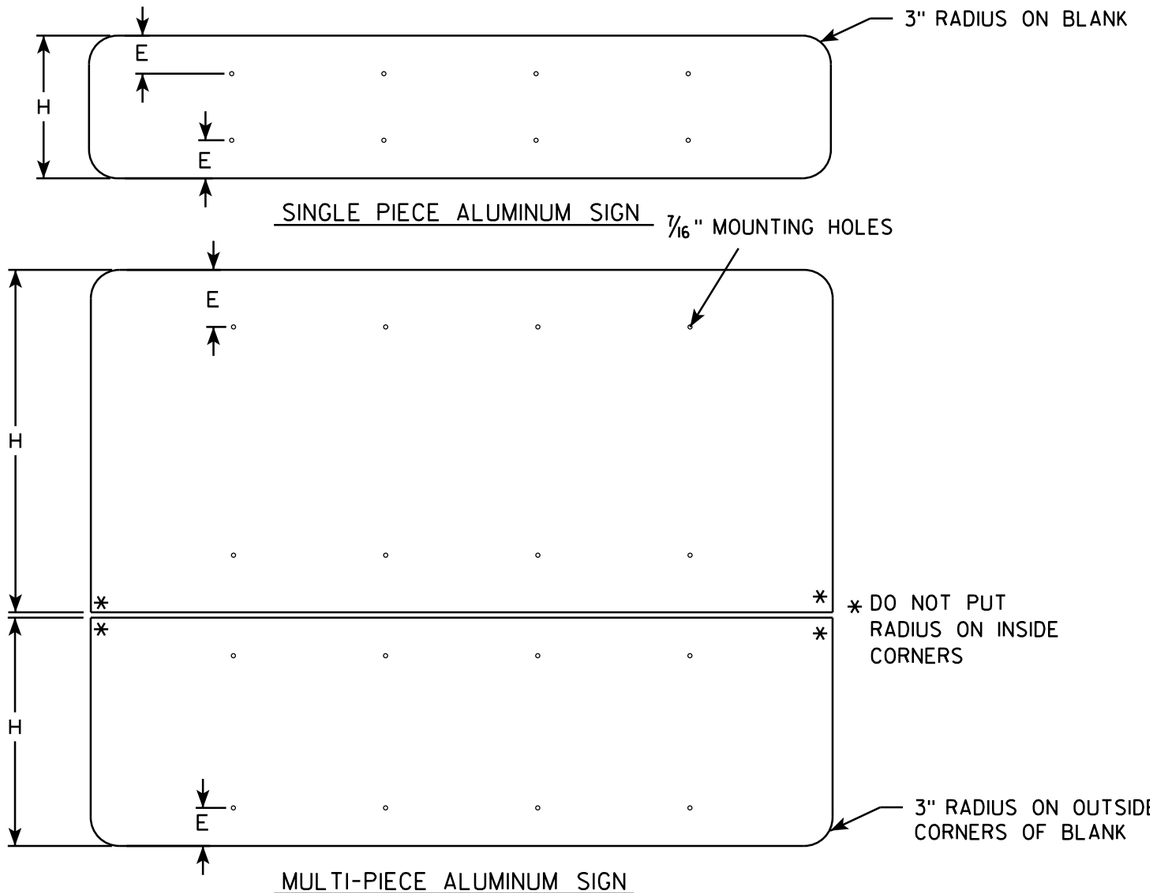
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

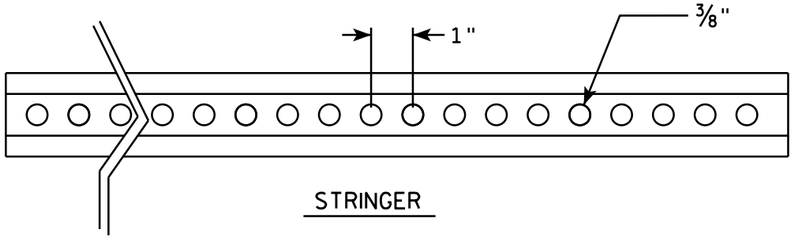
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 372	E



GENERAL NOTES

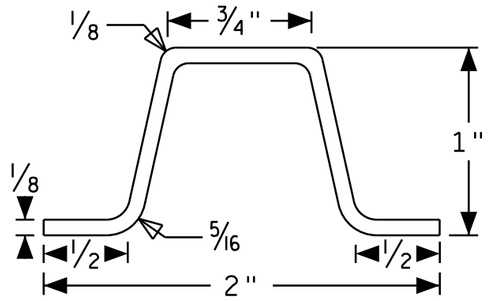
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

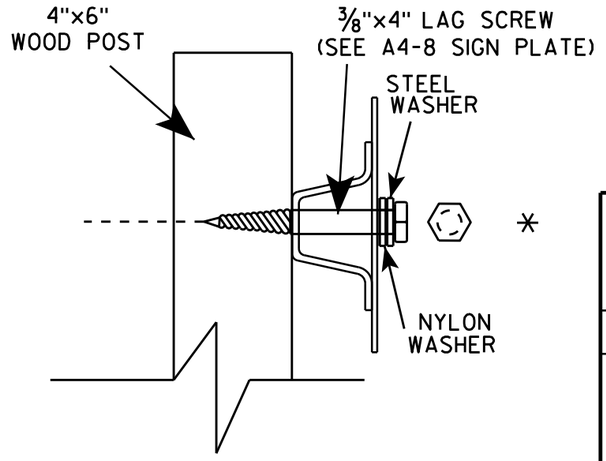


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

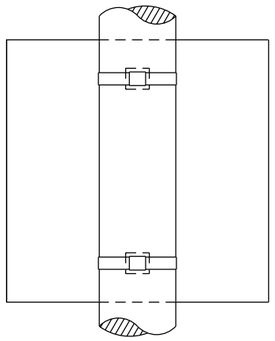
DATE 4/26/16 PLATE NO A4-18.1

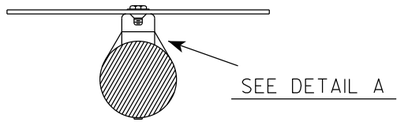
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

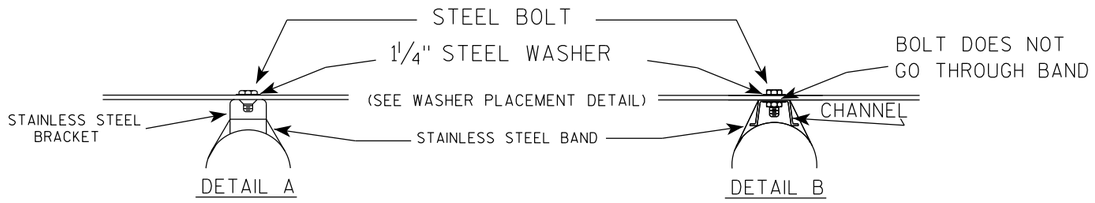
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

BANDING

SINGLE SIGN



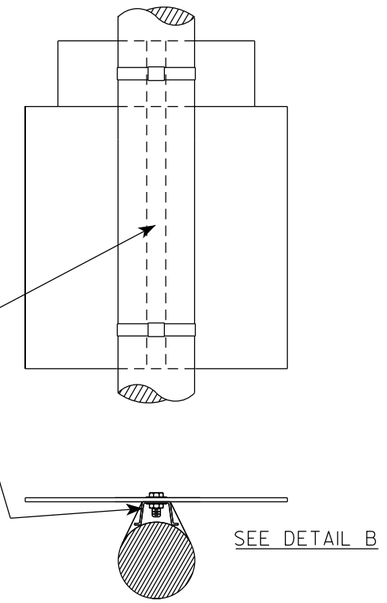




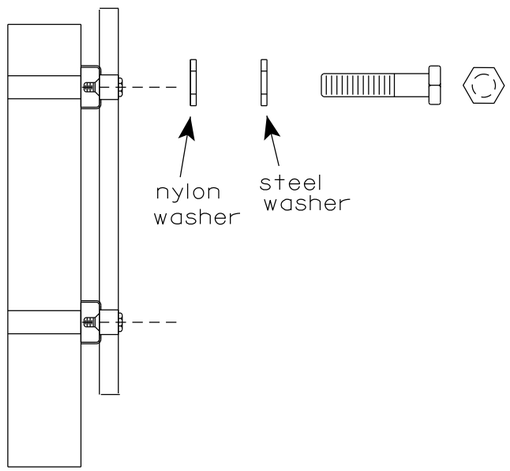
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

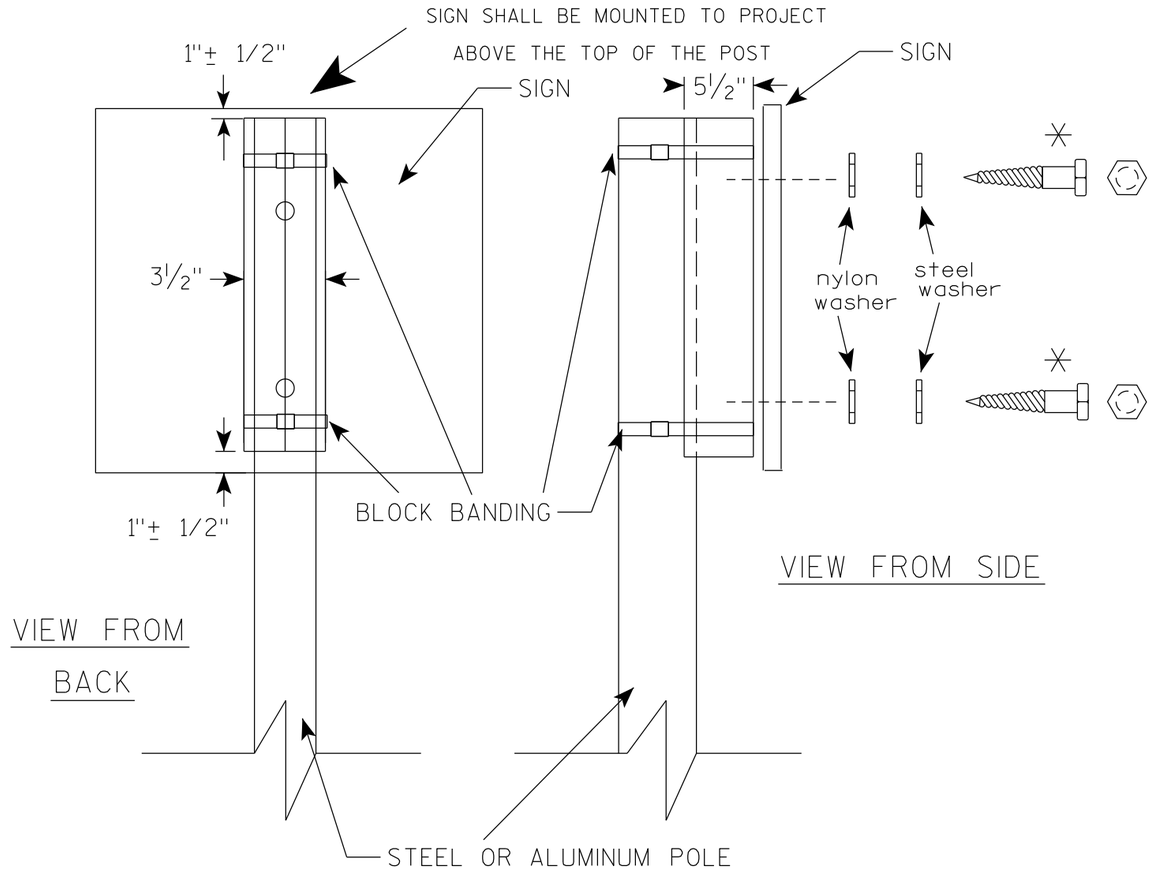
DATE 6/10/19 PLATE NO. A5-9.4

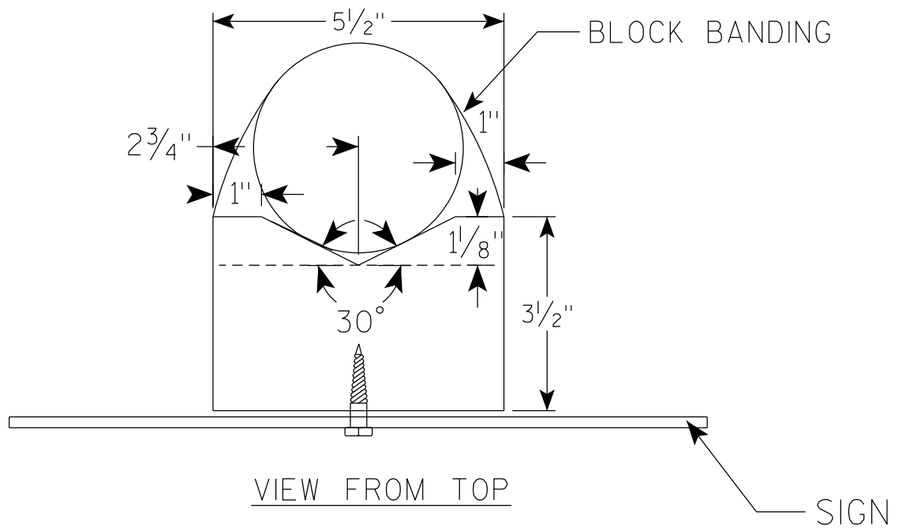
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 374	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

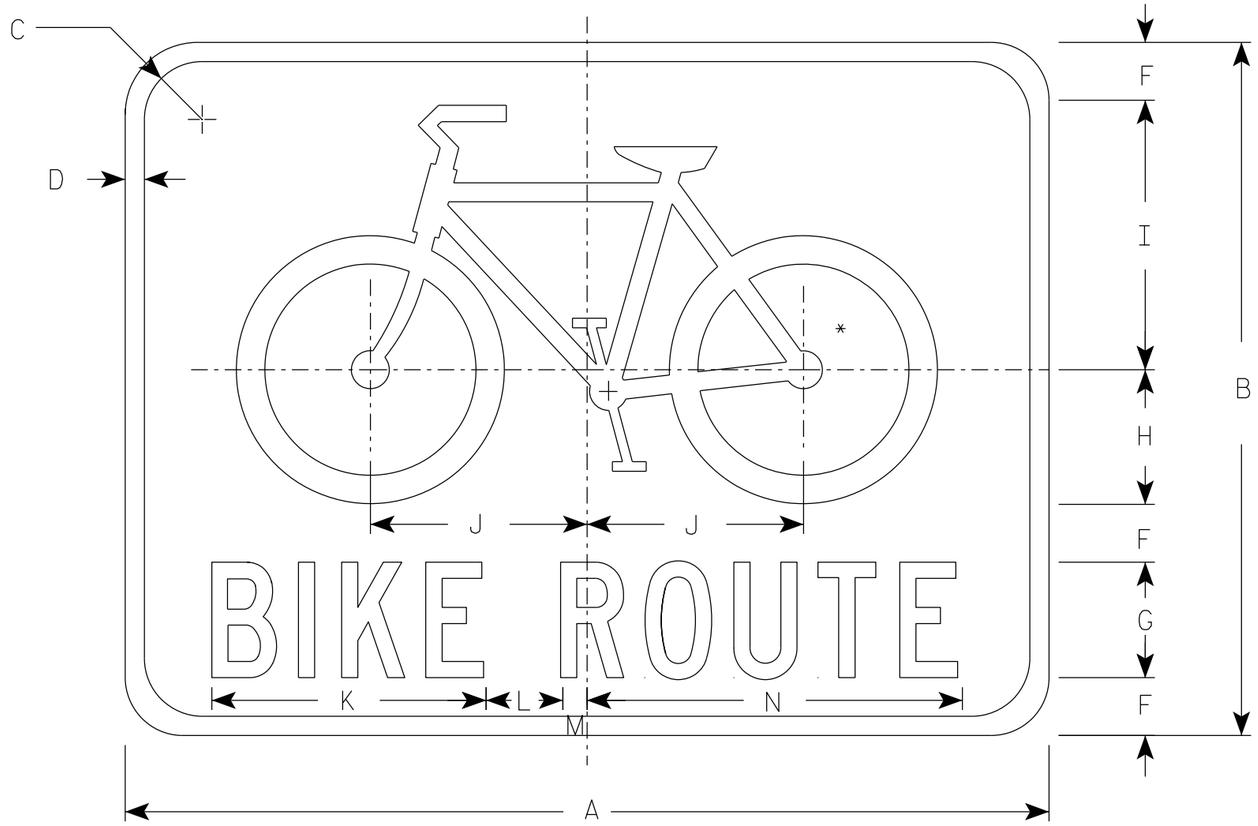
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO: | SHEET NO: 375 | E



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - C

* See W11-1 for symbol design

D11-1

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	18	1 1/2	1/2		1 1/2	3	3 1/2	7	5 5/8	7 1/8	2	5/8	9 3/4													3.0
2M	24	18	1 1/2	1/2		1 1/2	3	3 1/2	7	5 5/8	7 1/8	2	5/8	9 3/4													3.0
3	30	24	1 1/4	5/8		2	4	4 3/4	9 1/4	7 1/2	9 1/2	2 5/8	7/8	13													5.0
4																											
5																											

STANDARD SIGN
D11-1

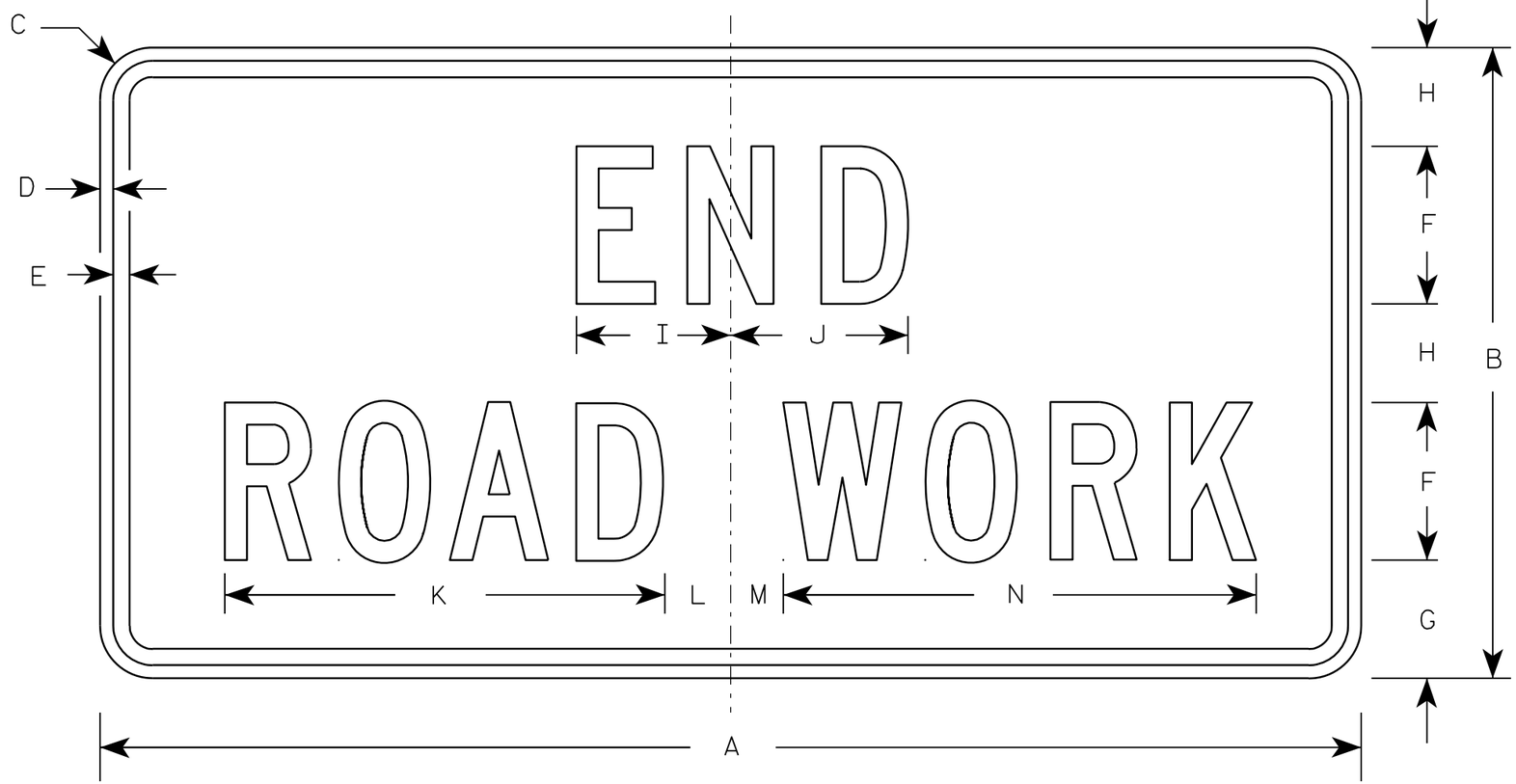
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/2021 PLATE NO. D11-1.2

PROJECT NO:

SHEET NO: 376 E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

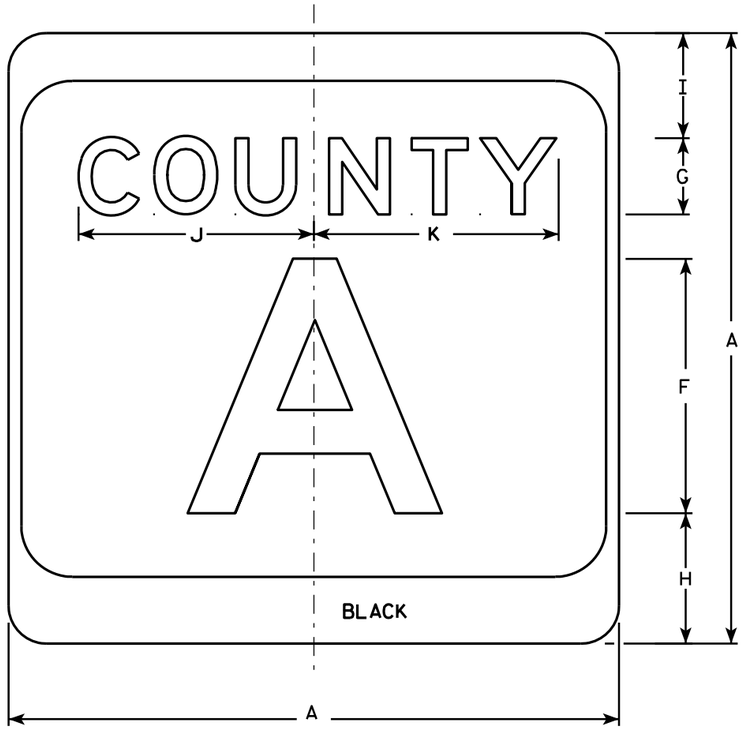
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

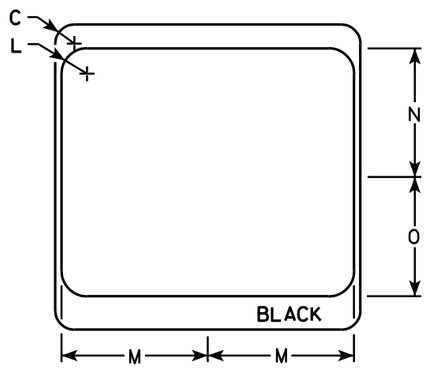
APPROVED Matthew R Rauch
for State Traffic Engineer

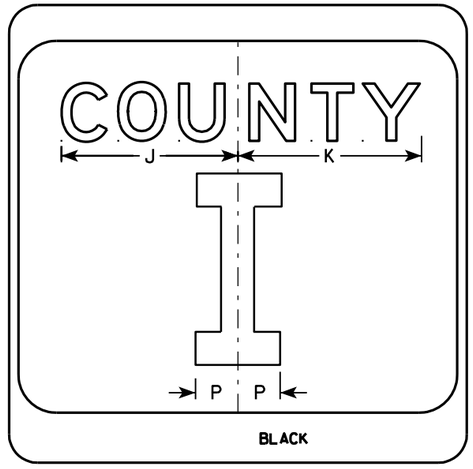
DATE 9/30/09 PLATE NO. G20-2A.8

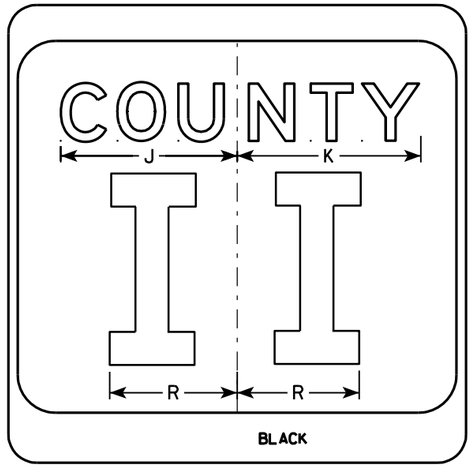
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 377	E



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

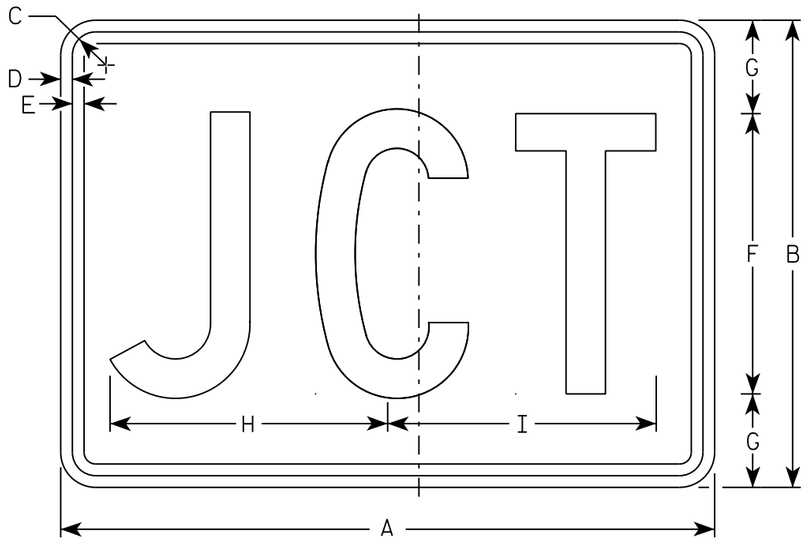
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

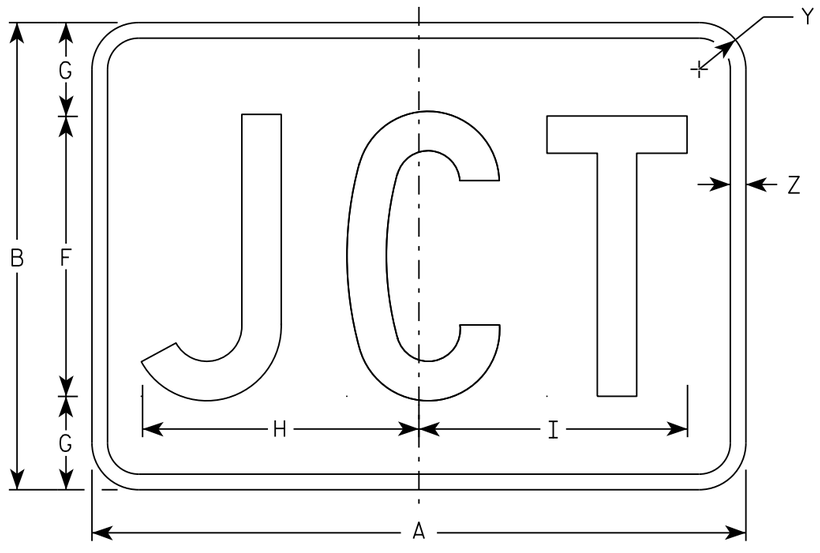
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 378 | 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

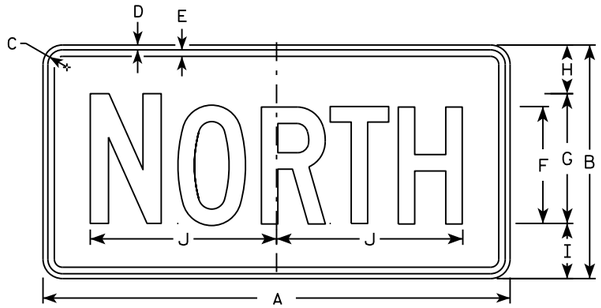
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

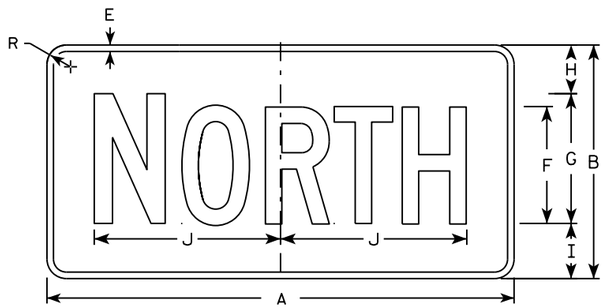
DATE 10/15/15 PLATE 379 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



M3-1
MM3-1
MP3-1



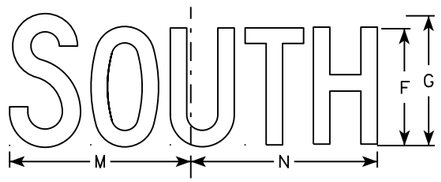
MB3-1
MK3-1
MN3-1



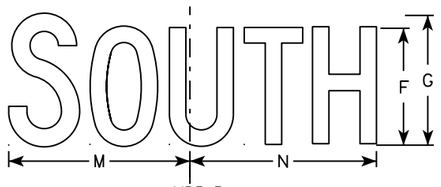
M3-2
MM3-2
MP3-2



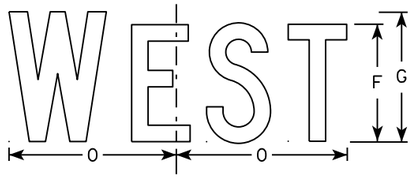
MB3-2
MK3-2
MN3-2



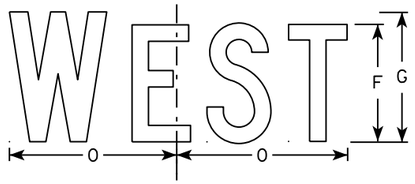
M3-3
MM3-3
MP3-3



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

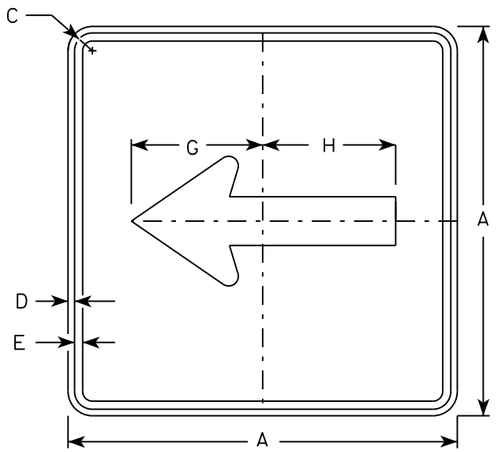
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

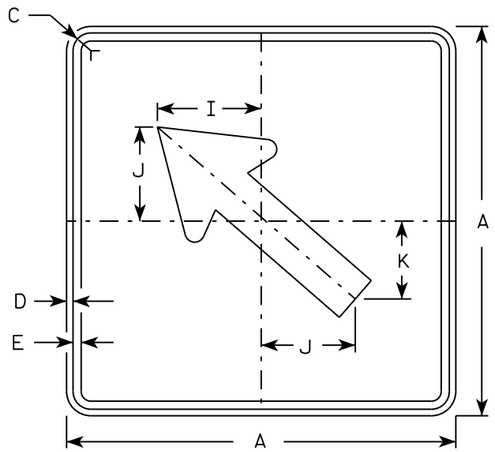
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



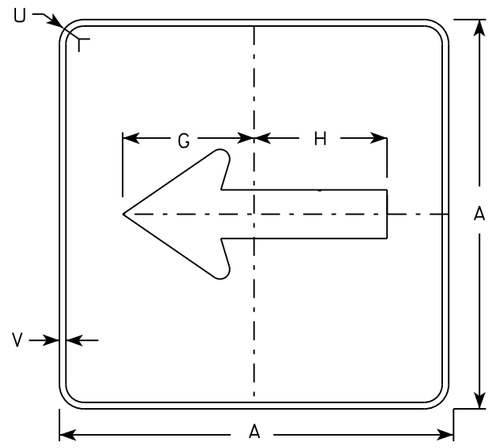
M6-1
MM6-1
MO6-1
MP6-1



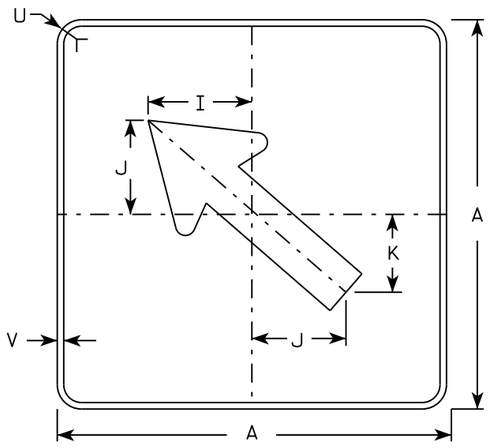
M6-2
MM6-2
MO6-2
MP6-2

NOTES

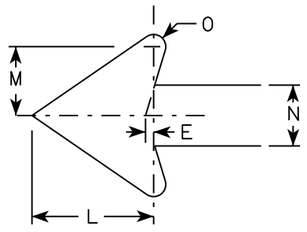
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

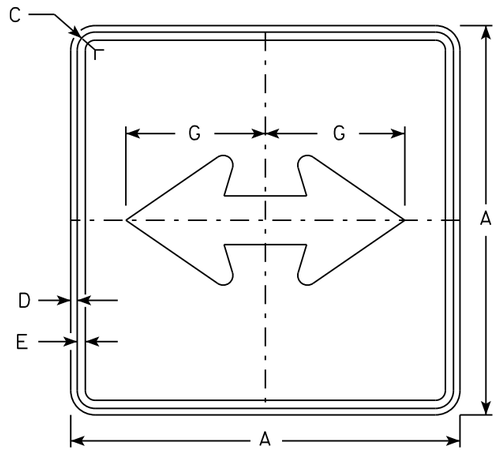
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

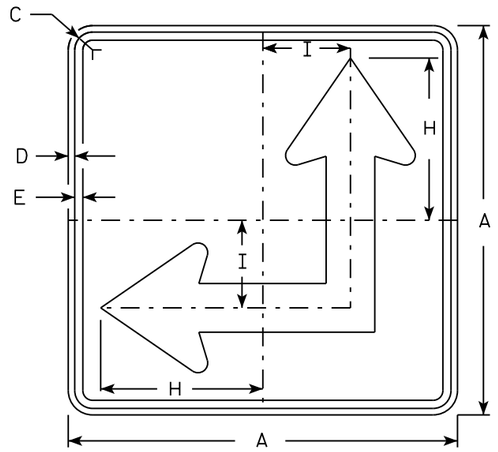
DATE 10/15/15 PLATE 381 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



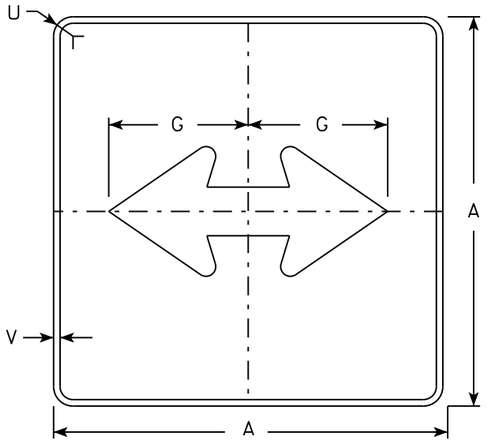
M6-4
MM6-4
MO6-4
MP6-4



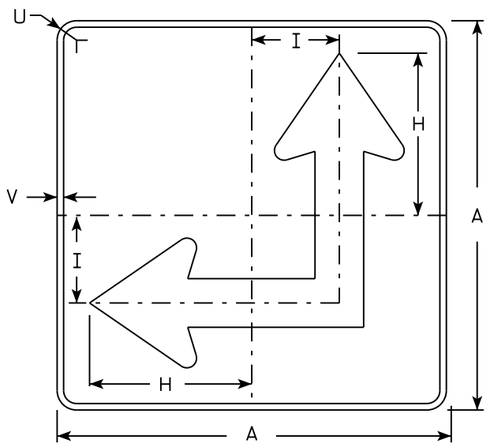
M6-6
MM6-6
MO6-6
MP6-6

NOTES

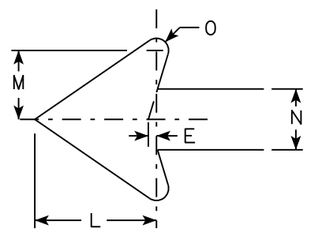
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - 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.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



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

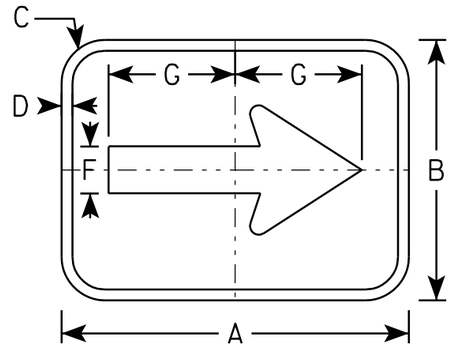
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

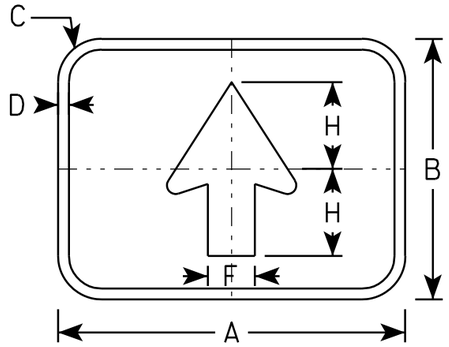
DATE 10/15/15 PLATE 382 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

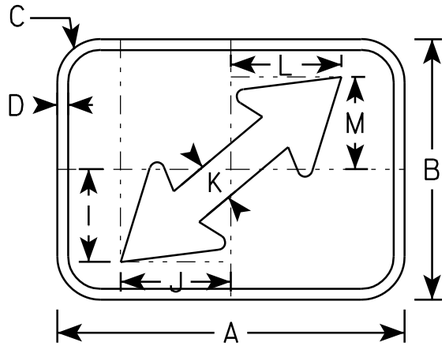
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



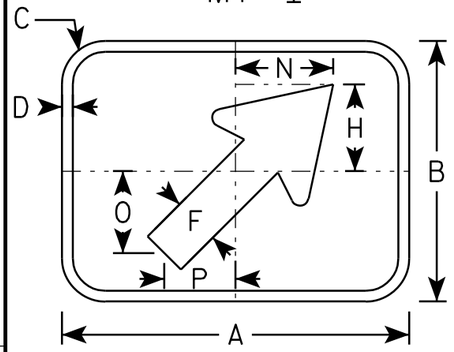
M7-1



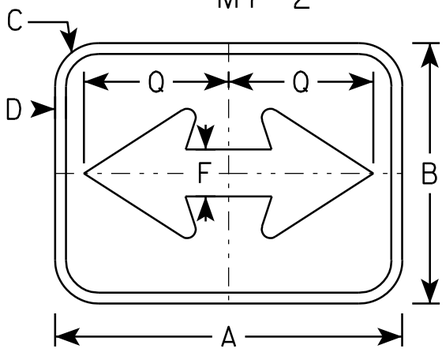
M7-2



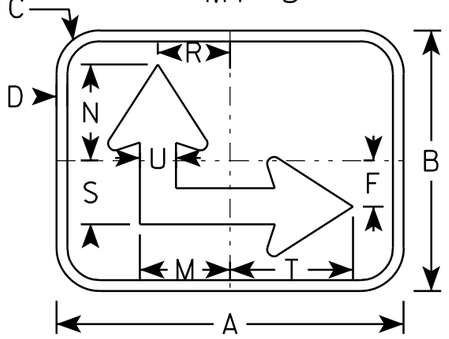
M7-3



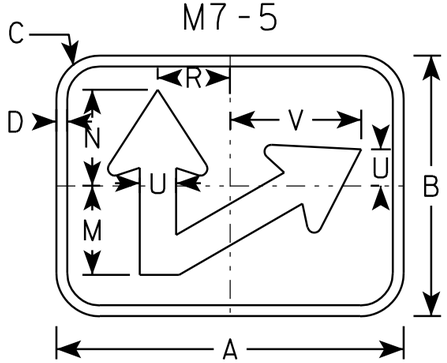
M7-4



M7-5



M7-6



M7-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message -White
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	12	9	1 1/2	3/8		1 5/8	4 3/8	3	3 1/4	3 3/4	1 3/8	3 7/8	3 1/8	3 3/8	2 7/8	2 1/2	5	2 1/2	2 1/4	4 1/4	1 1/4	4 1/2					.75
3																											
4																											
5																											

STANDARD SIGN
M7 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 05/04/10 PLATE NO. M7-1.1

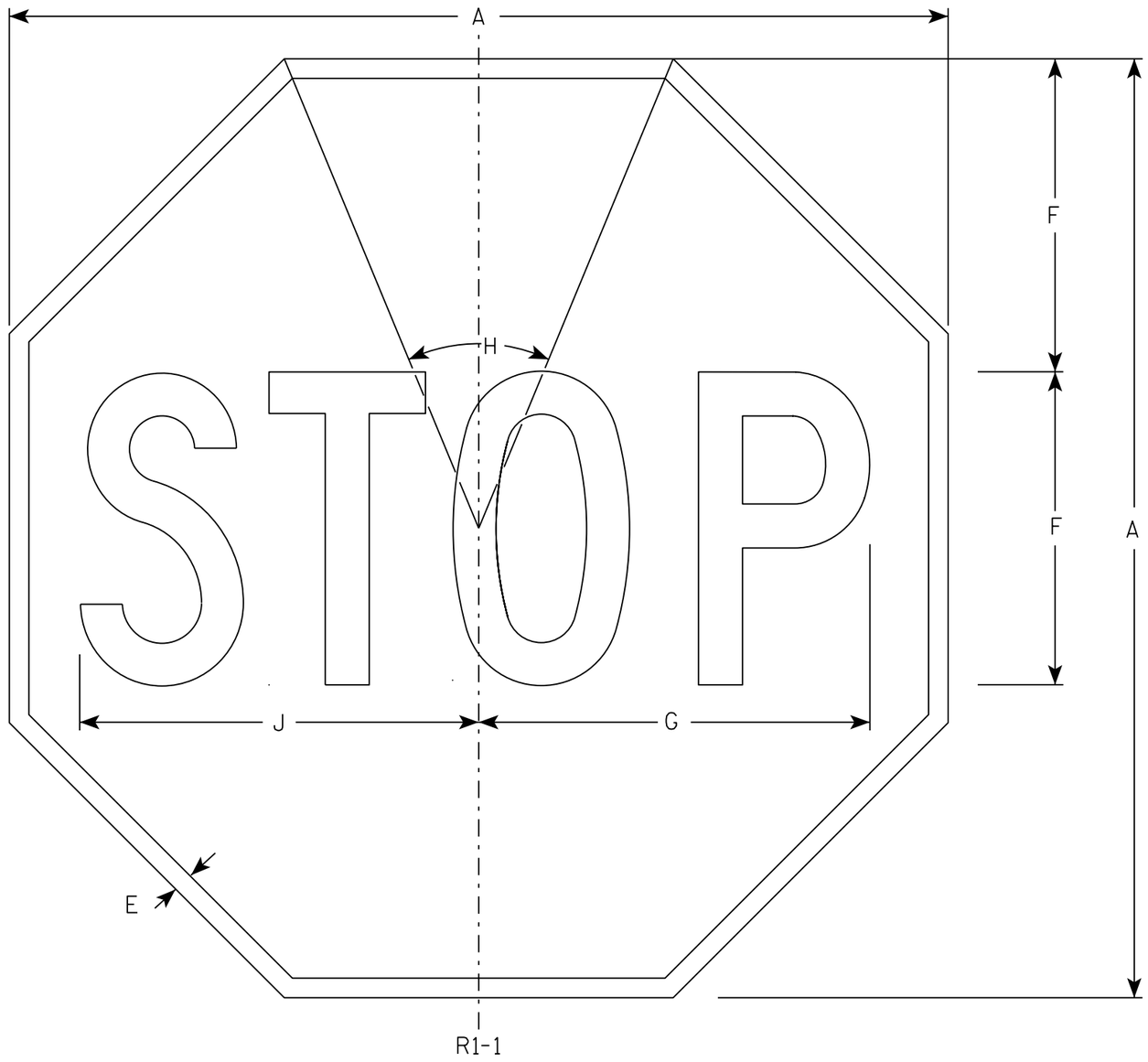
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 383	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M71.DGN PLOT DATE : 28-MAY-2010 08:14 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 5.237442:1.000000

WISDOT/CADDS SHEET 42

7

7



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
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

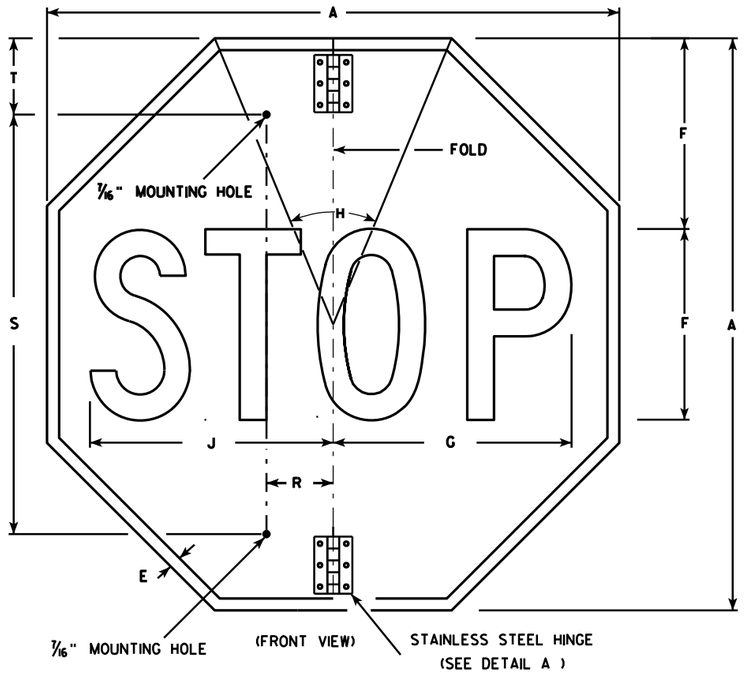
WISCONSIN DEPT OF TRANSPORTATION

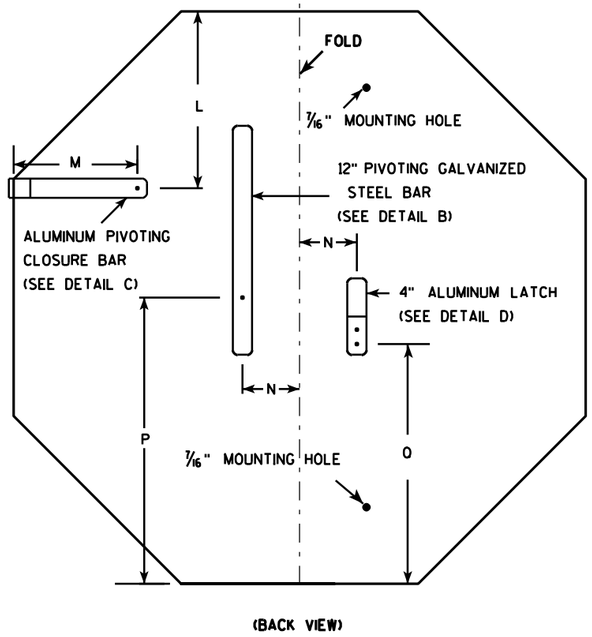
APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

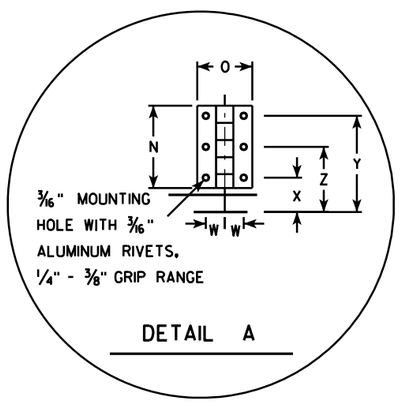
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 384	E



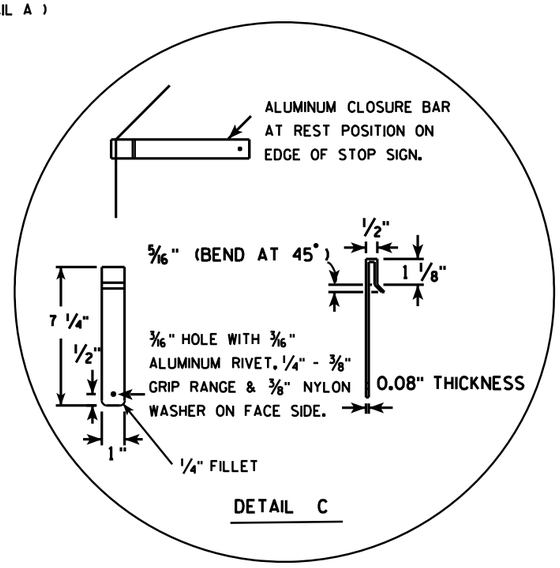


NOTES

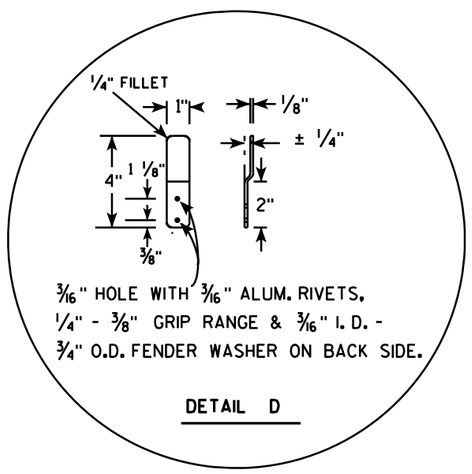
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



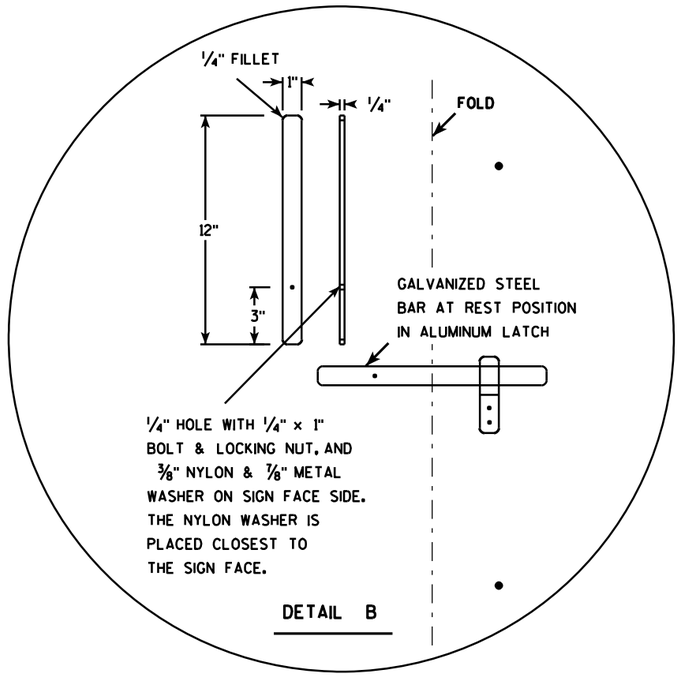
DETAIL A



DETAIL C



DETAIL D



DETAIL B

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																											

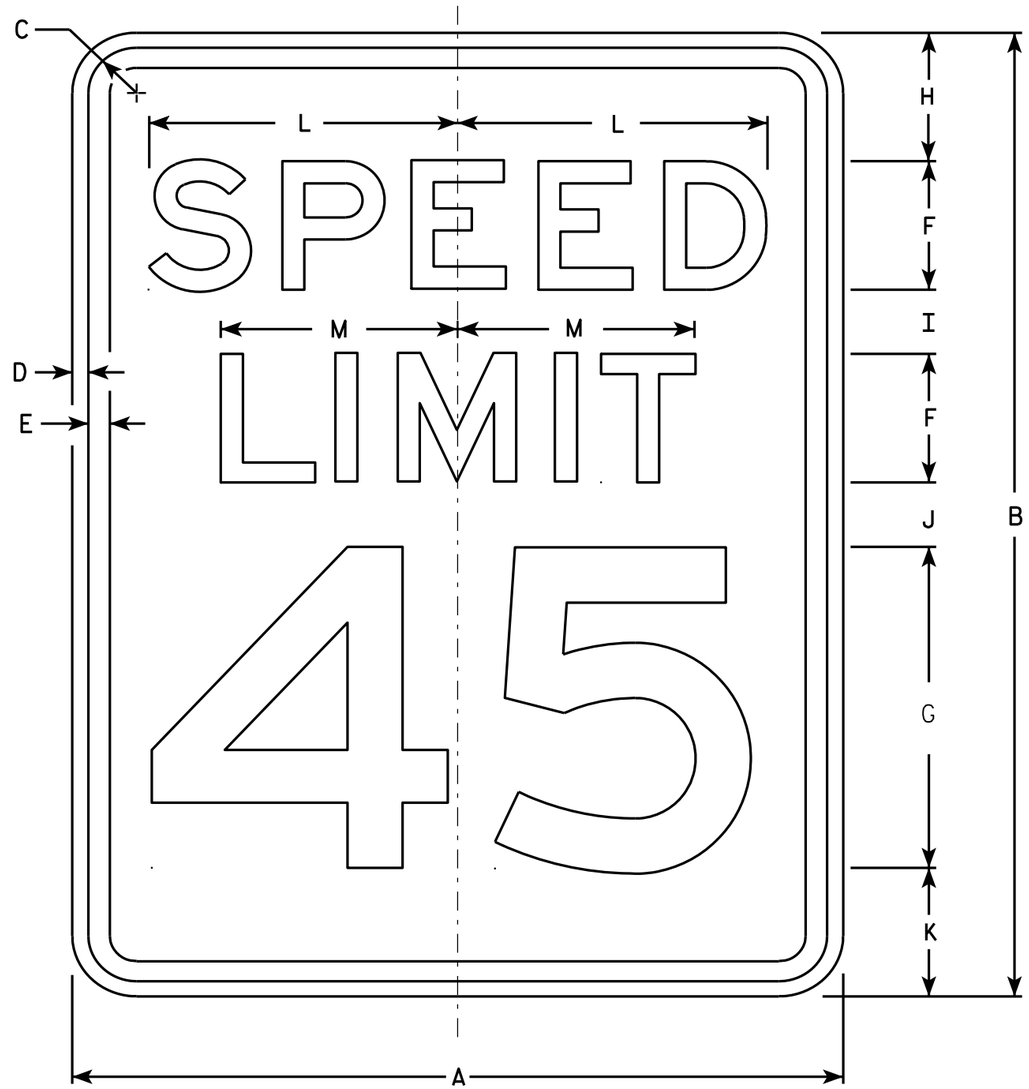
STANDARD SIGN
R1-1F

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: 385	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

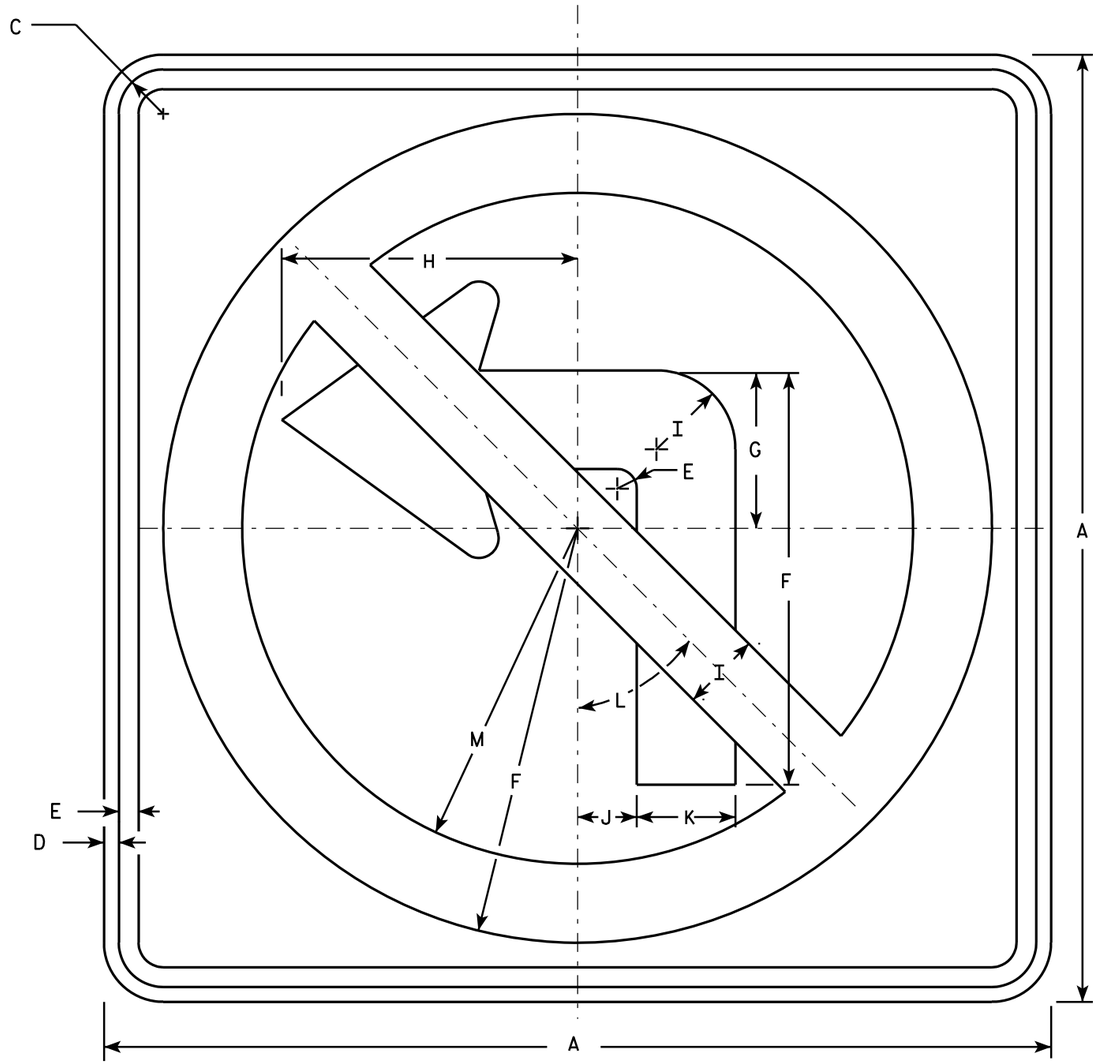
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

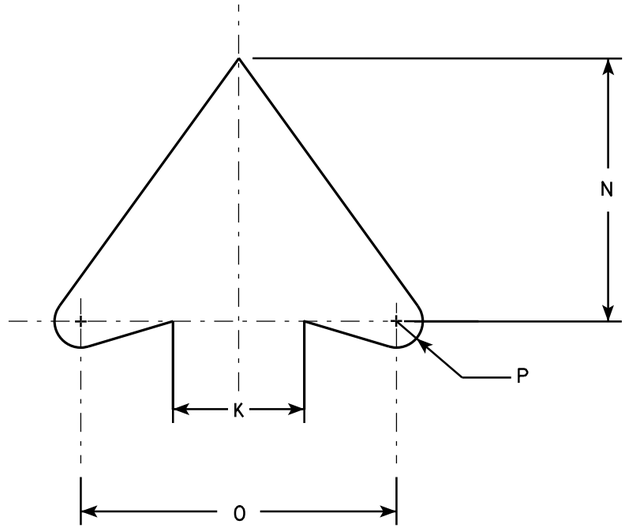
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 386	E



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

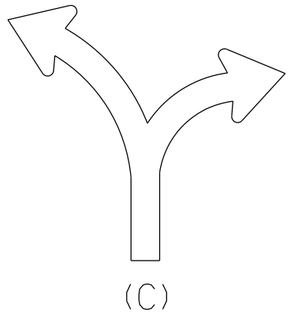
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 387	E

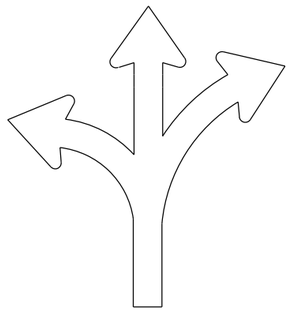


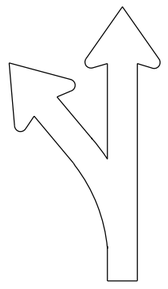
(A)

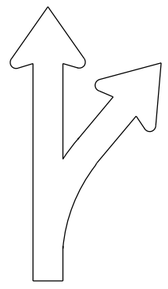


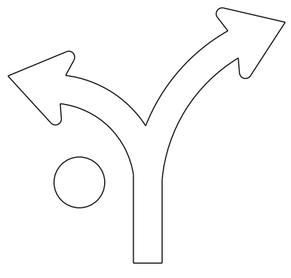
(B)

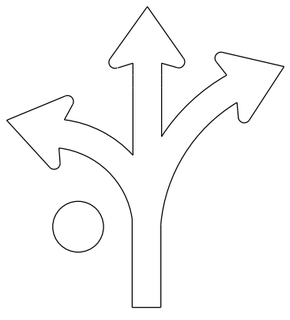

(C)

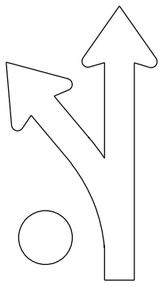

(D)

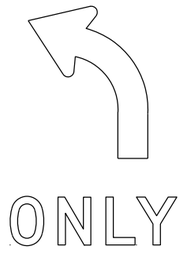

(E)


(F)

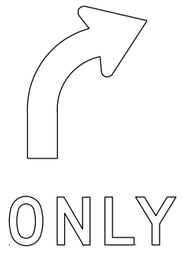

(G)


(H)

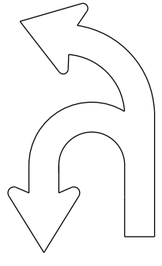

(I)



(L)



(R)


(U)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1 Letter =	3.75 sq ft	for Size 2
	6.0 sq ft	for Size 3
	10.0 sq ft	for Size 4 or 5
2 Letters =	7.5 sq ft	for Size 2
	12.0 sq ft	for Size 3
	20.0 sq ft	for Size 4 or 5
3 Letters =	11.25 sq ft	for Size 2
	18.0 sq ft	for Size 3
	30.0 sq ft	for Size 4 or 5
4 Letters =	15.0 sq ft	for Size 2
	24.0 sq ft	for Size 3
	40.0 sq ft	for Size 4 or 5
5 Letters =	18.75 sq ft	for Size 2
	30.0 sq ft	for Size 3
	50.0 sq ft	for Size 4 or 5
6 Letters =	22.5 sq ft	for Size 2
	36.0 sq ft	for Size 3
	60.0 sq ft	for Size 4 or 5

6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

7

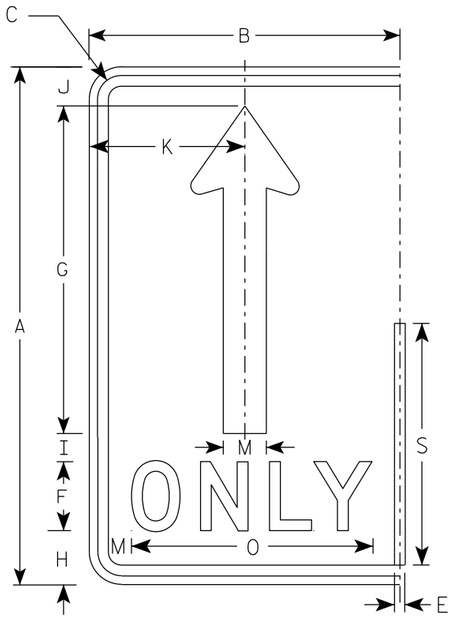
7

PROJECT NO:

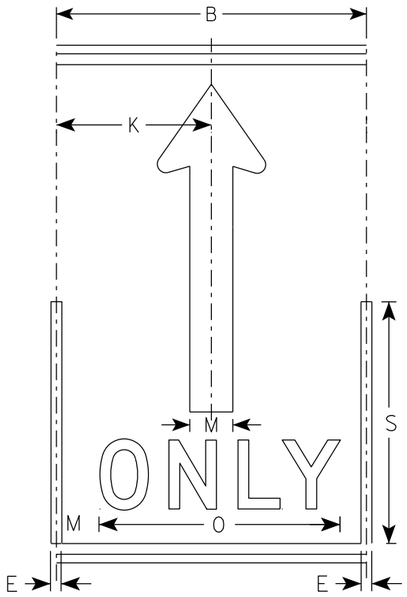
SHEET NO: 388 E

NOTES

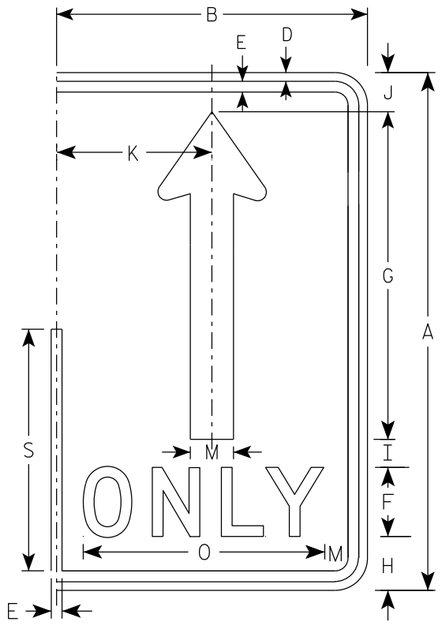
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



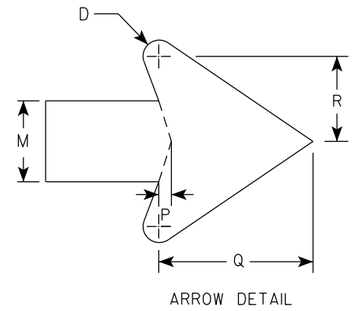
(A)



(A)



(A)



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	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

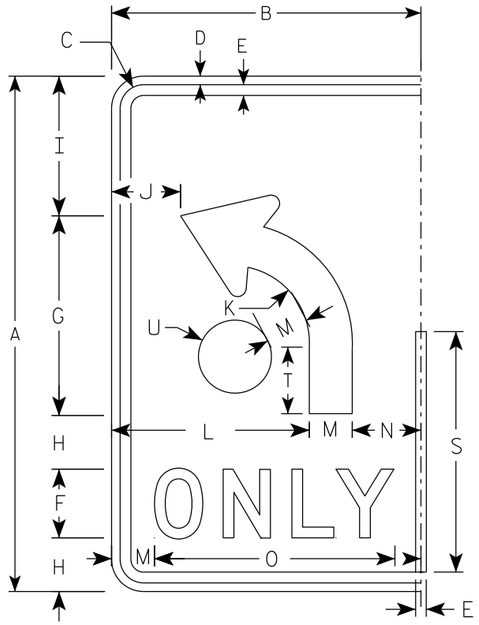
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

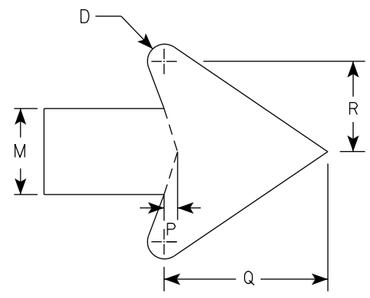
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 389 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



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	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

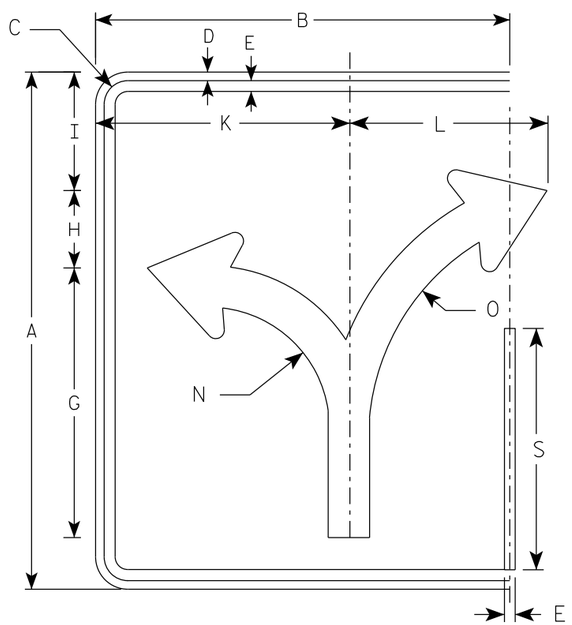
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

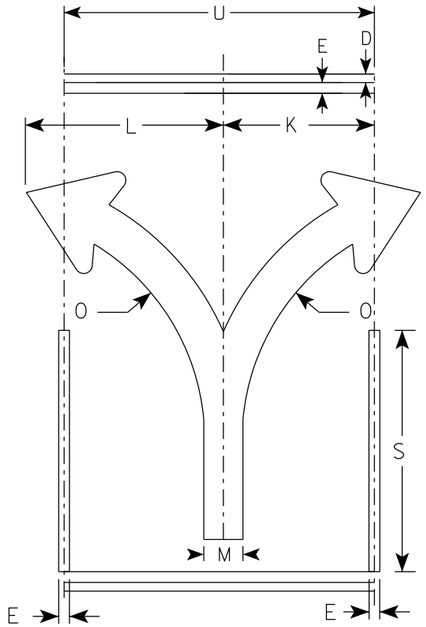
SHEET NO: 390 E

NOTES

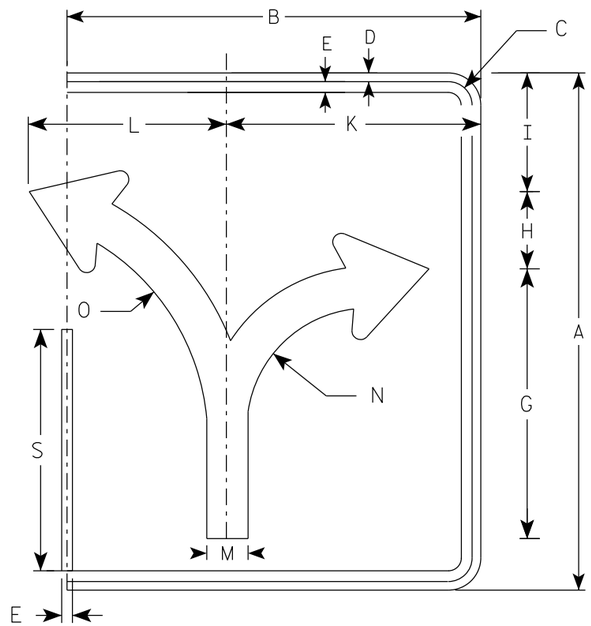
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



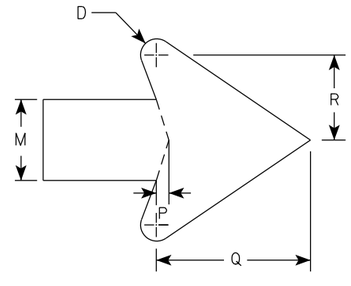
(C)



(C)



(C)



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	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

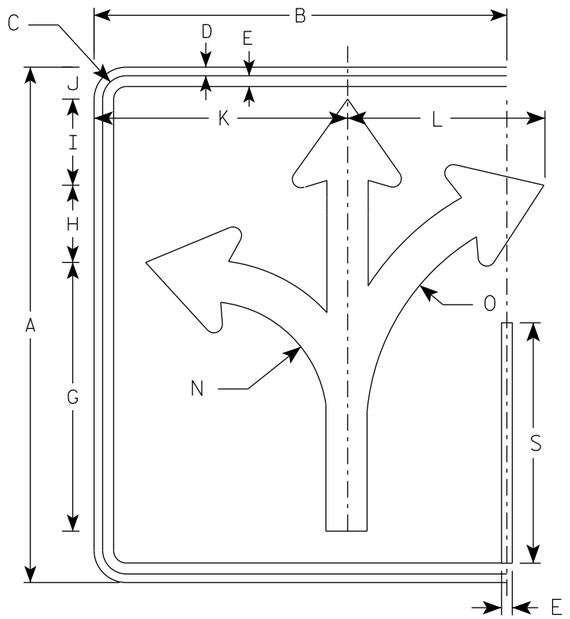
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

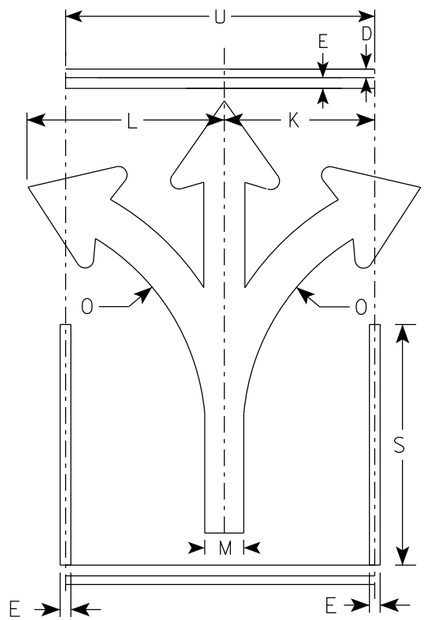
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 391 | E

NOTES

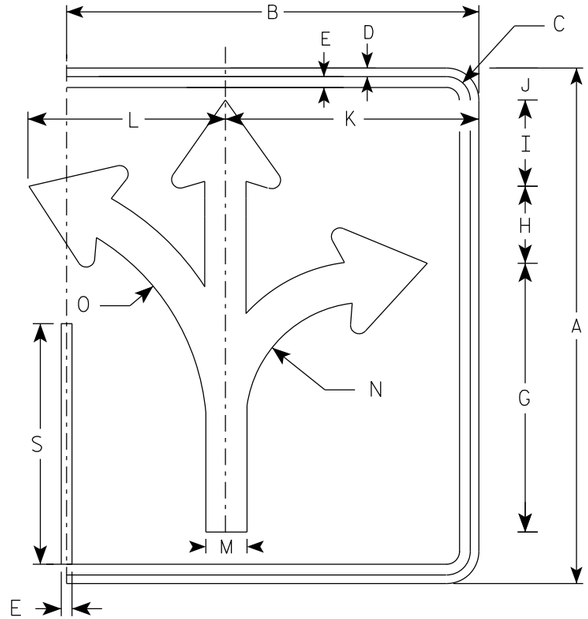
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



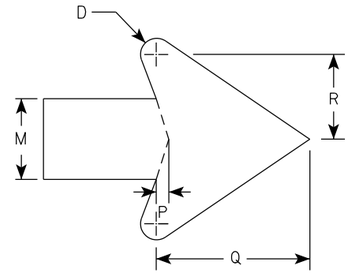
(D)



(D)



(D)



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	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

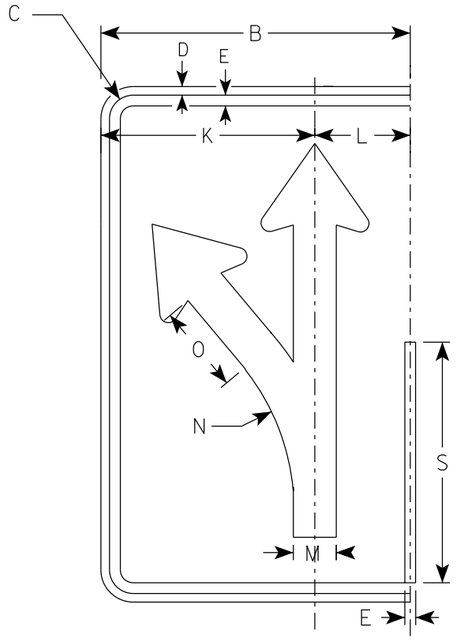
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 392 | E

7

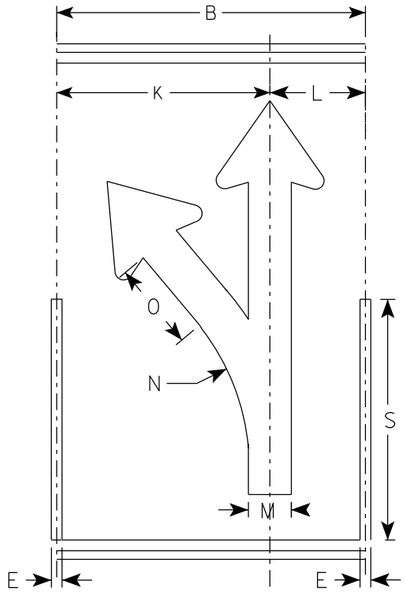
7

NOTES

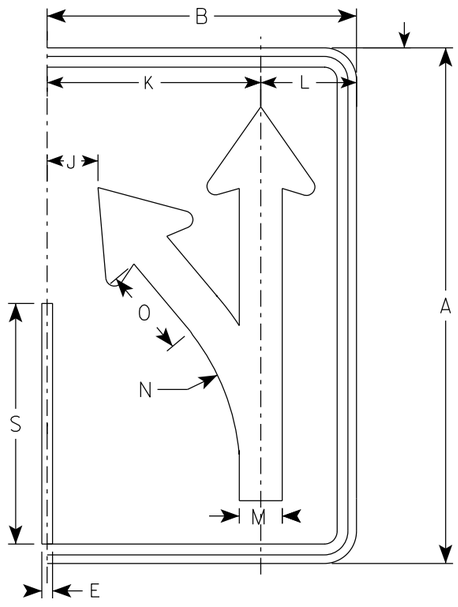
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



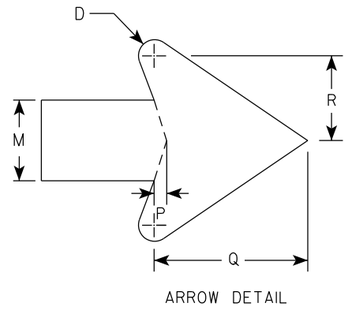
(E)



(E)



(E)



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	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

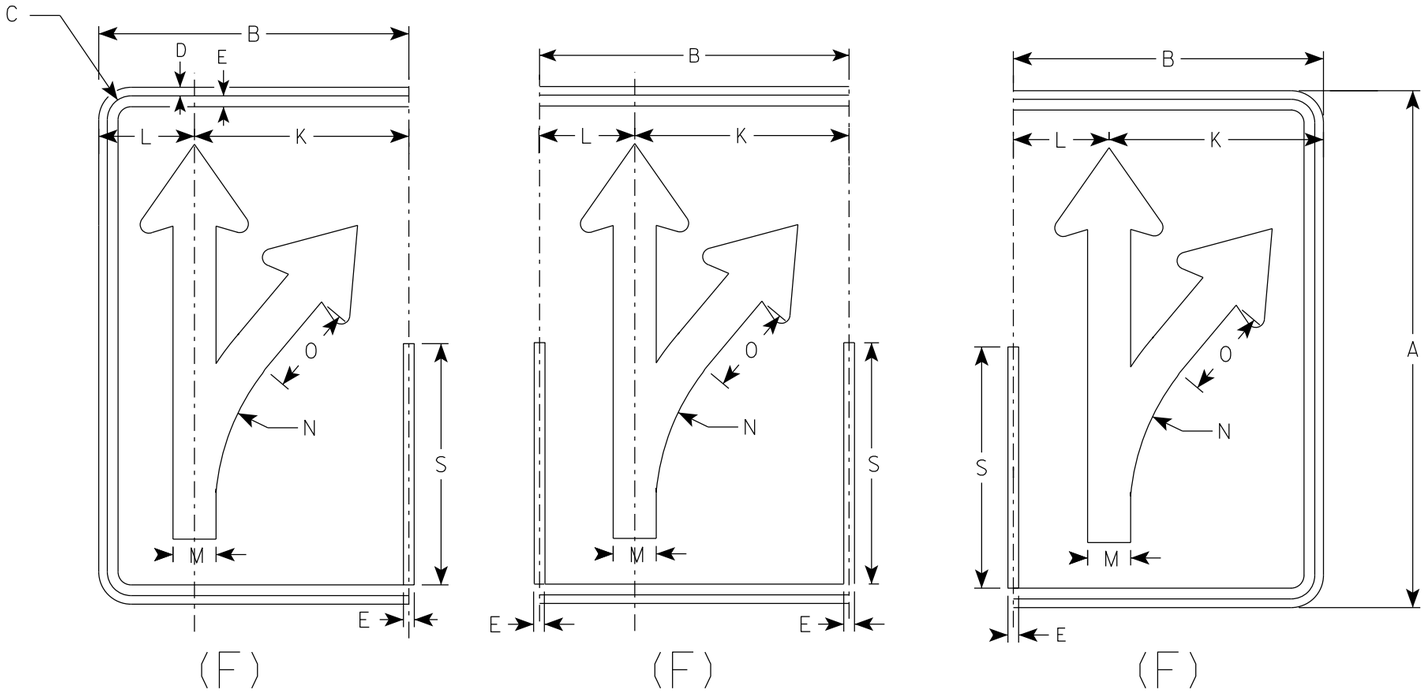
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

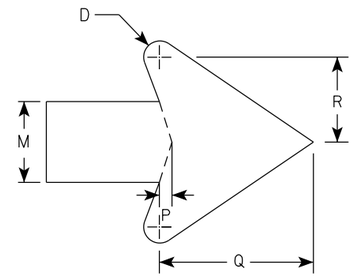
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 393 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(F) (F) (F)



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	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

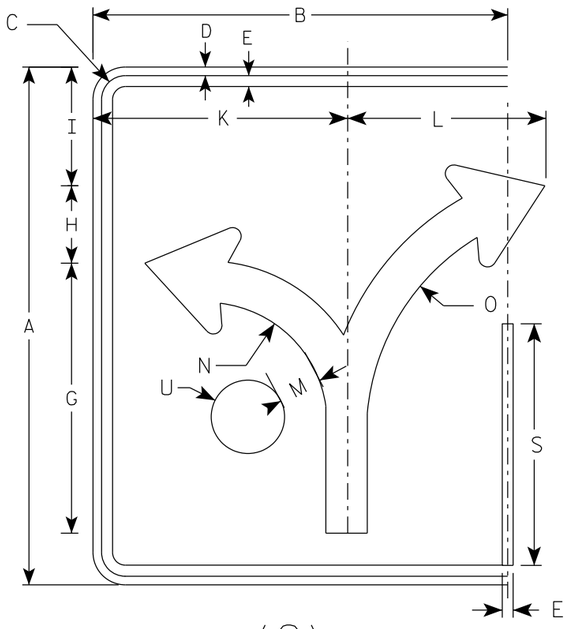
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

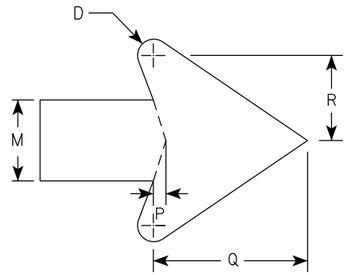
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 394 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



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	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

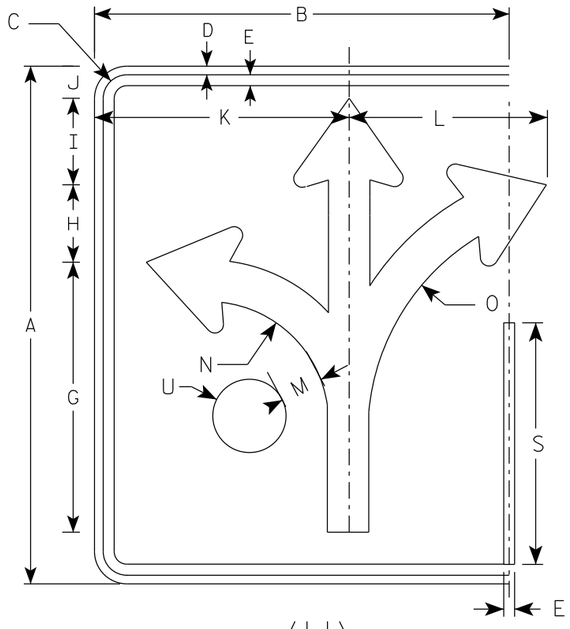
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

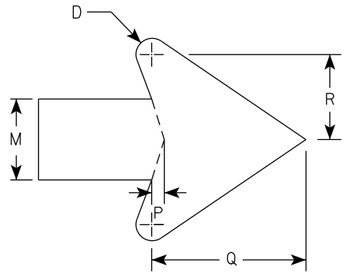
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 395	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



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	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

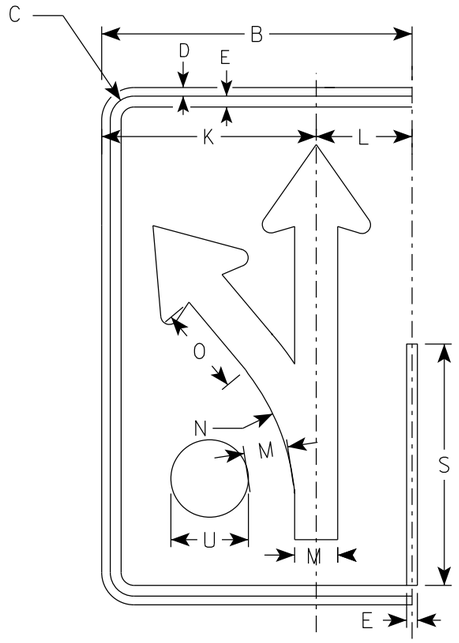
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

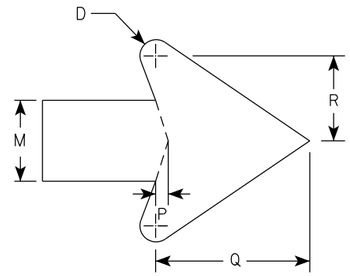
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 396	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



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	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

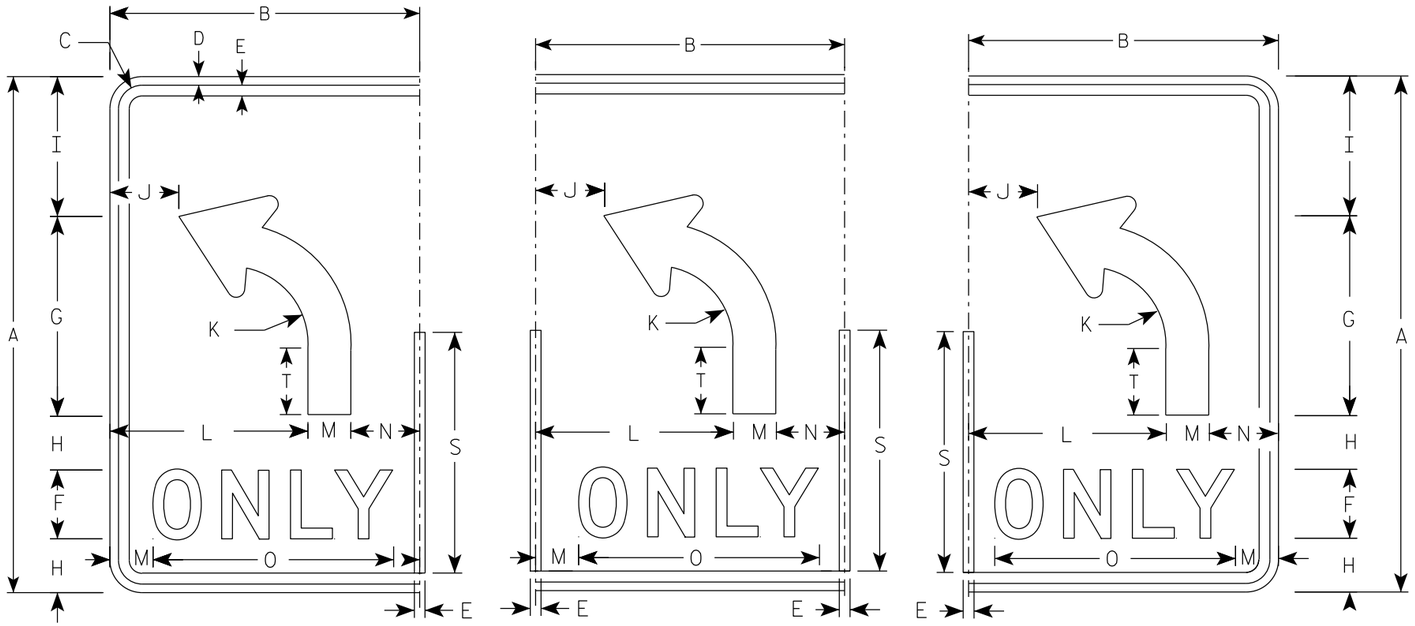
APPROVED Matthew R Rauch
For State Traffic Engineer

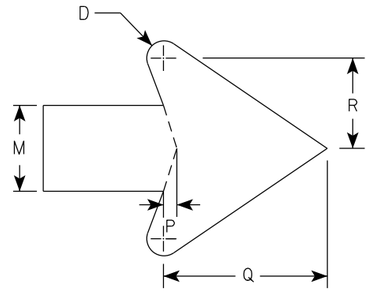
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 397 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D





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	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

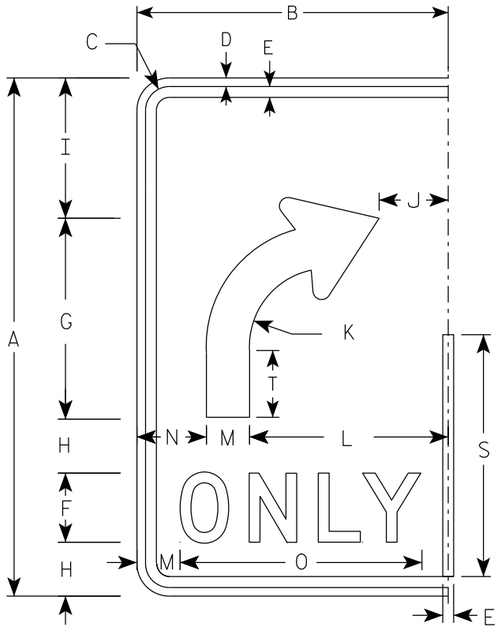
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

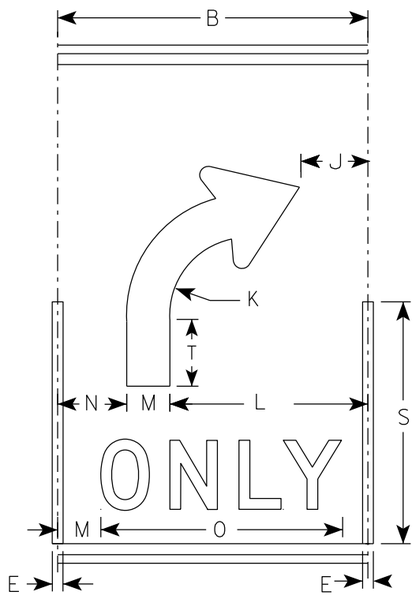
SHEET NO: 398 E

NOTES

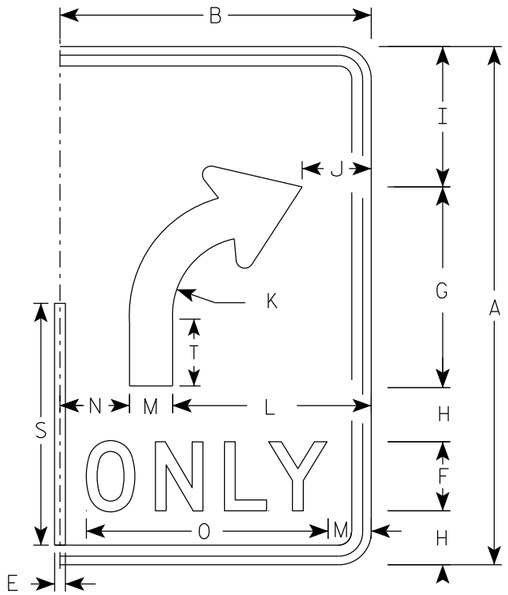
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



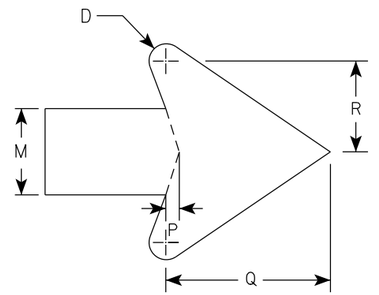
(R)



(R)



(R)



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	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN
R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

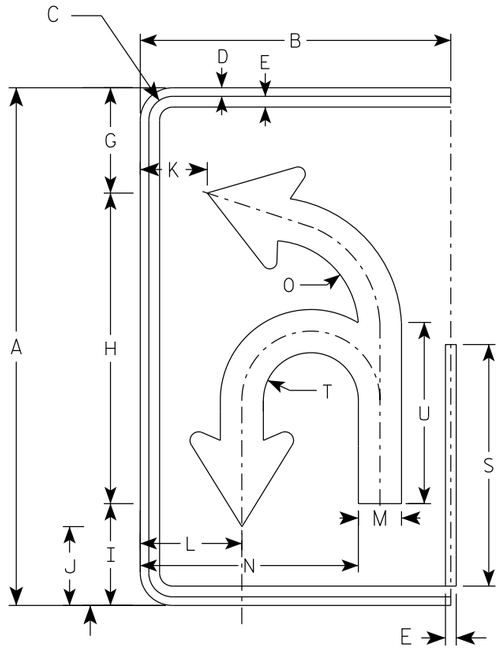
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

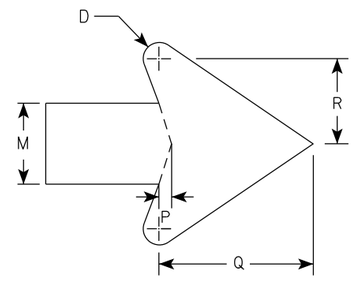
SHEET NO: 399 **E**

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(U)



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	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

STANDARD SIGN
R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

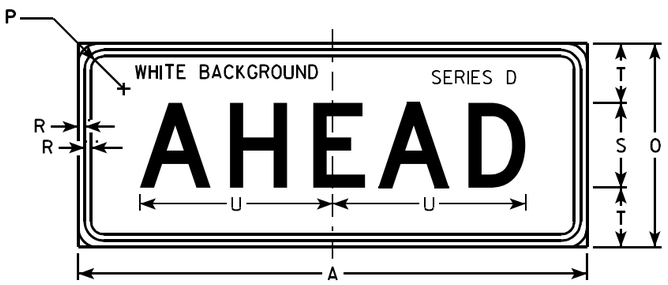
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 400 | E



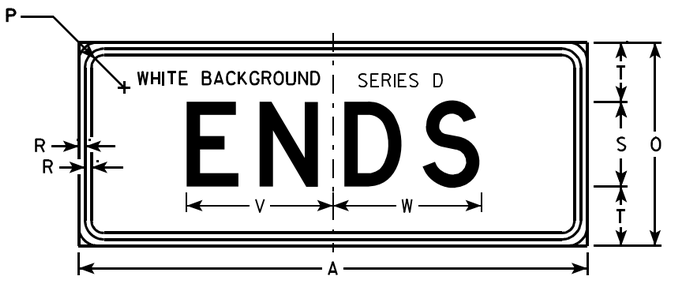
R3-17

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - AS SHOWN
   Message - BLACK
3. Message Series - C or as noted on the Signs.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-17ap



R3-17bp

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	R3-17 Area sq. ft.	R3-17ap Area sq. ft.	R3-17bp Area sq. ft.
1																													
2S	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
2M	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
3																													
4																													
5																													

STANDARD SIGN
R3-17 & R3-17a&bp

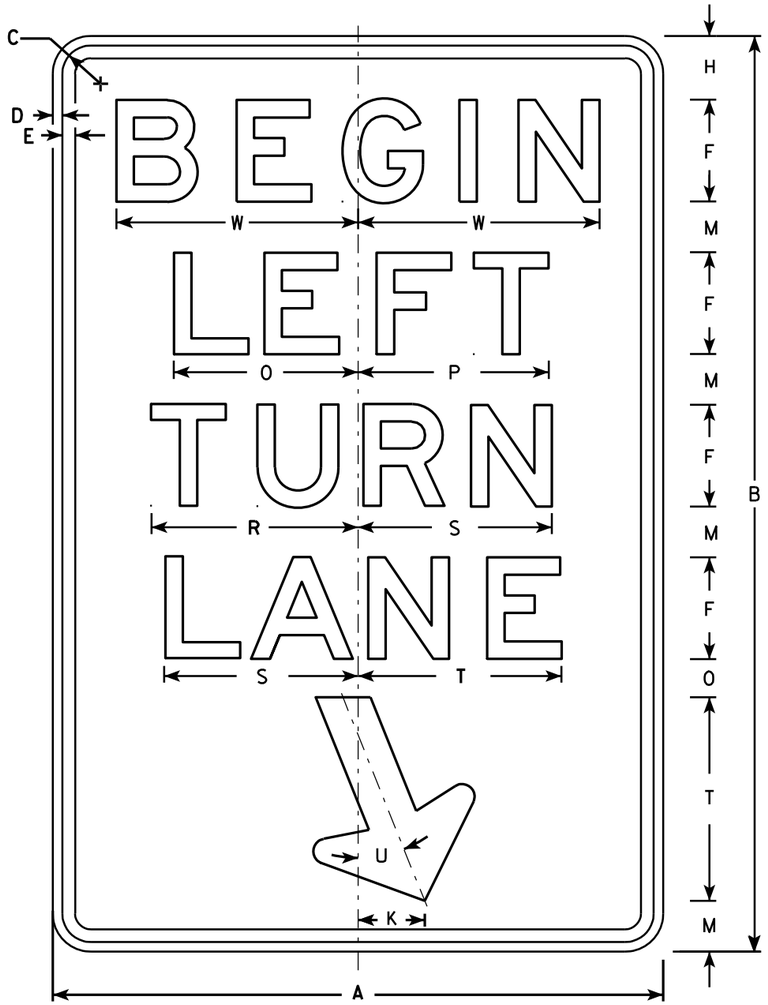
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/12/2011 PLATE NO. R3-17.2

PROJECT NO:

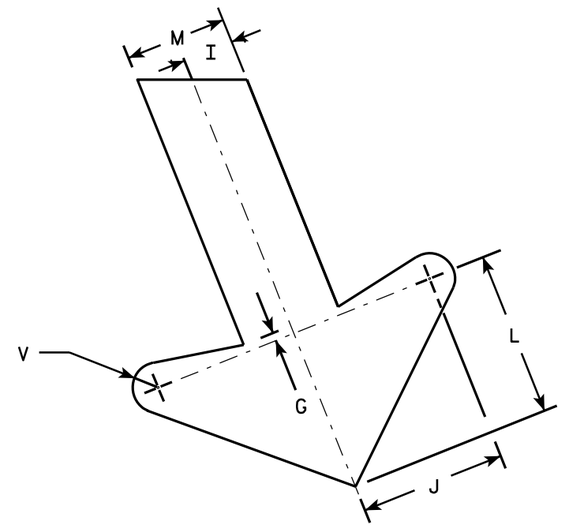
SHEET NO: 401 E



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																											

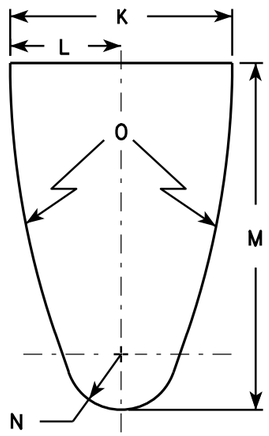
STANDARD SIGN
R3-20L

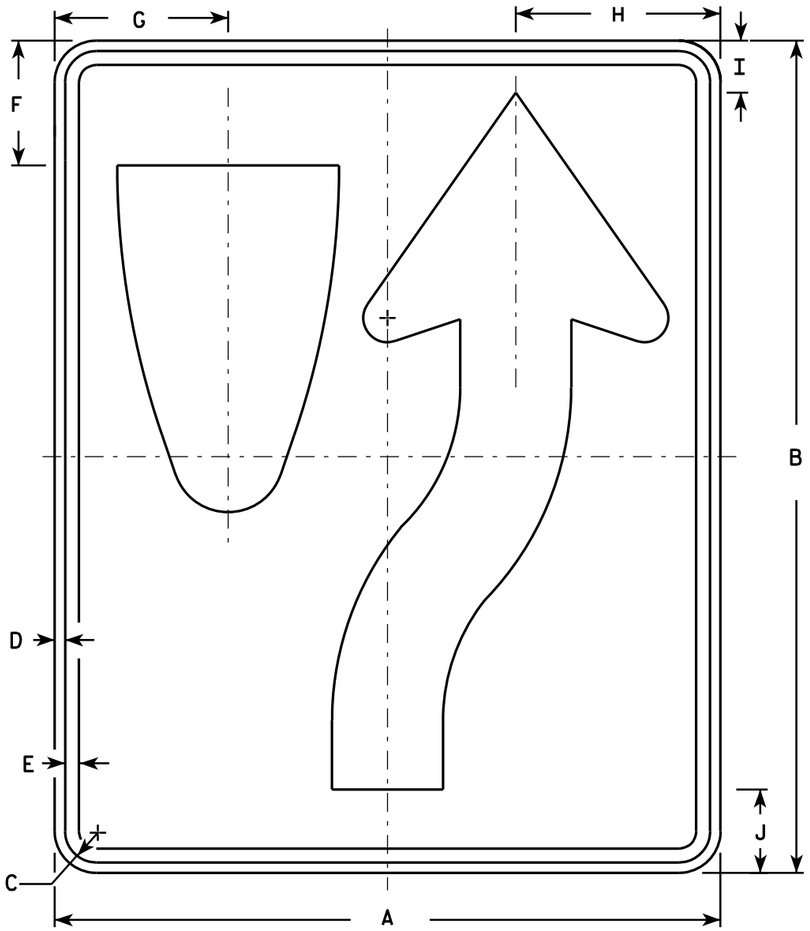
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 402 | E

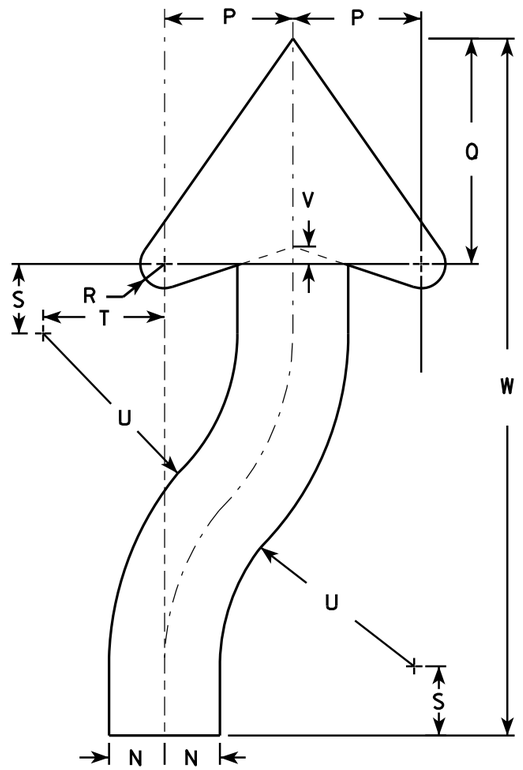




R4-7

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

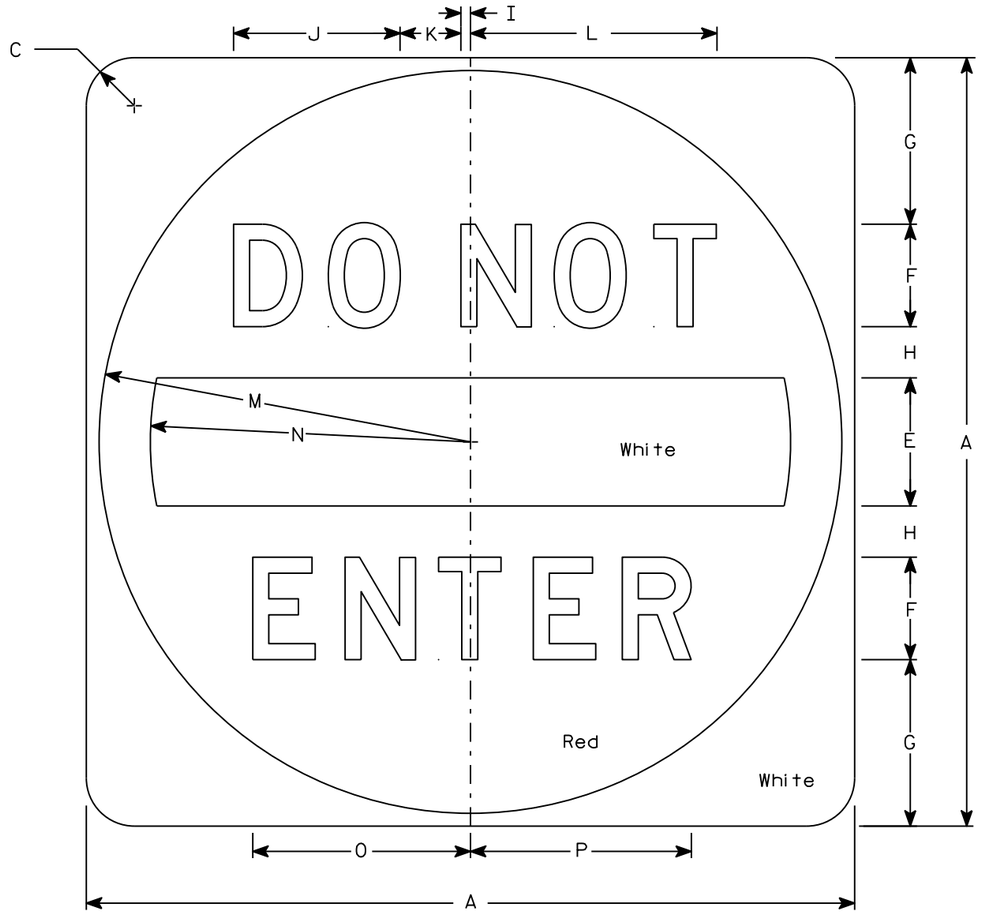
STANDARD SIGN
R4-7 & R4-8

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: 403	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

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											6.25
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

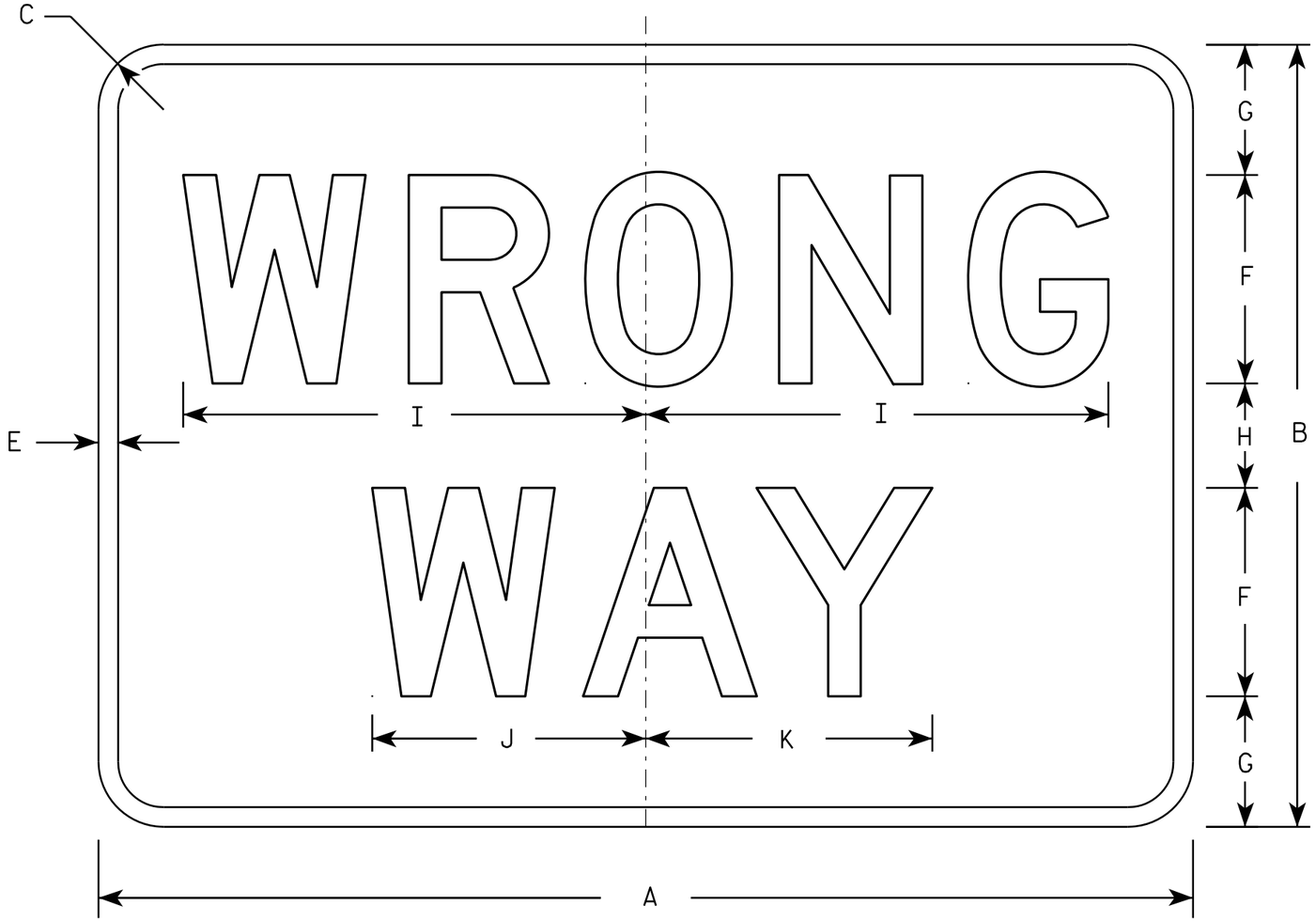
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 404 | 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

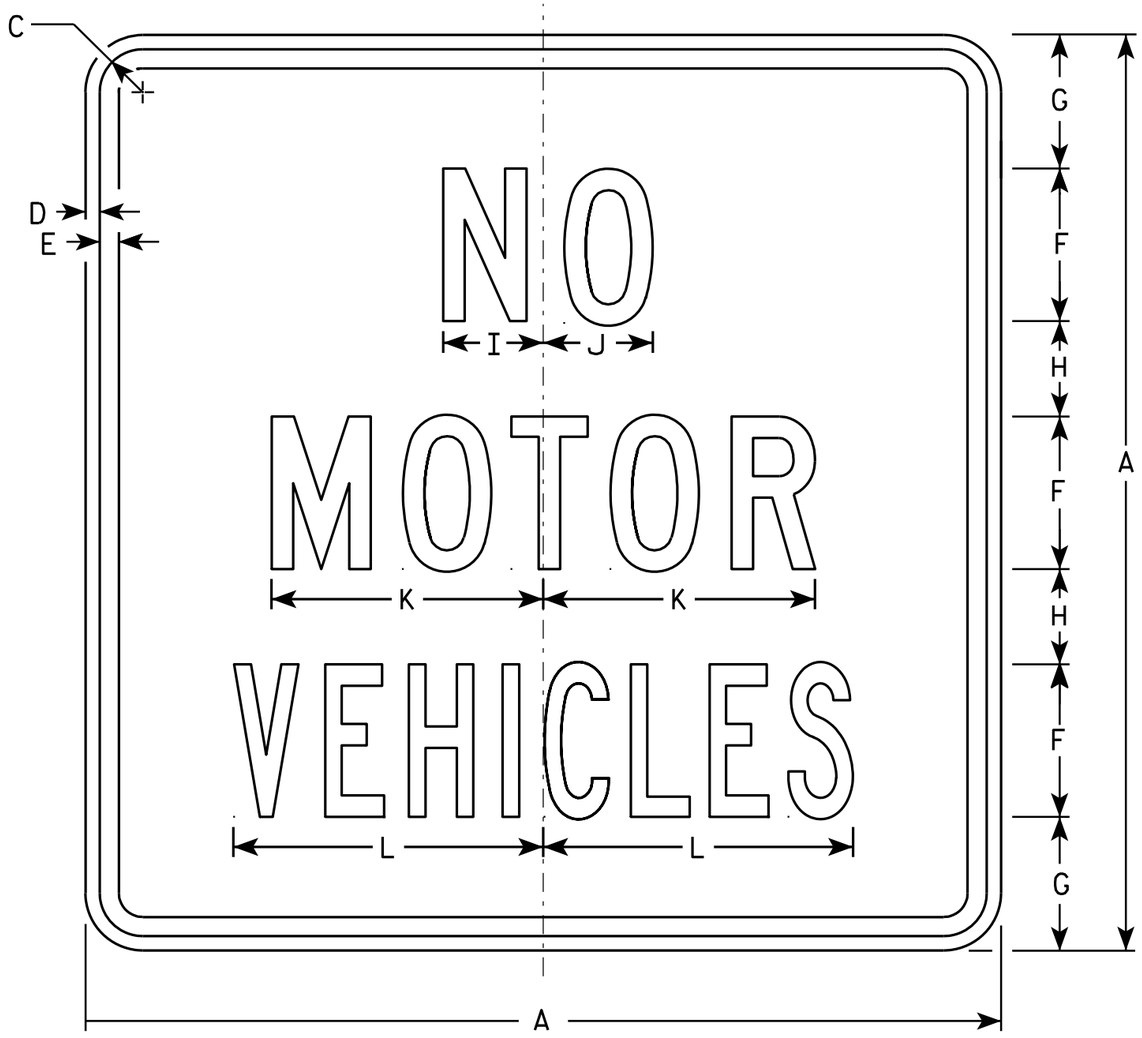
STANDARD SIGN
R5-1A

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: 405	E



R5-3

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. Lines 1 & 2 are Series C.
   Line 3 is Series B.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	2 5/8	2 7/8	7 1/8	8 1/8															4.0
2M	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	2 5/8	2 7/8	7 1/8	8 1/8															4.0
3																											
4																											
5																											

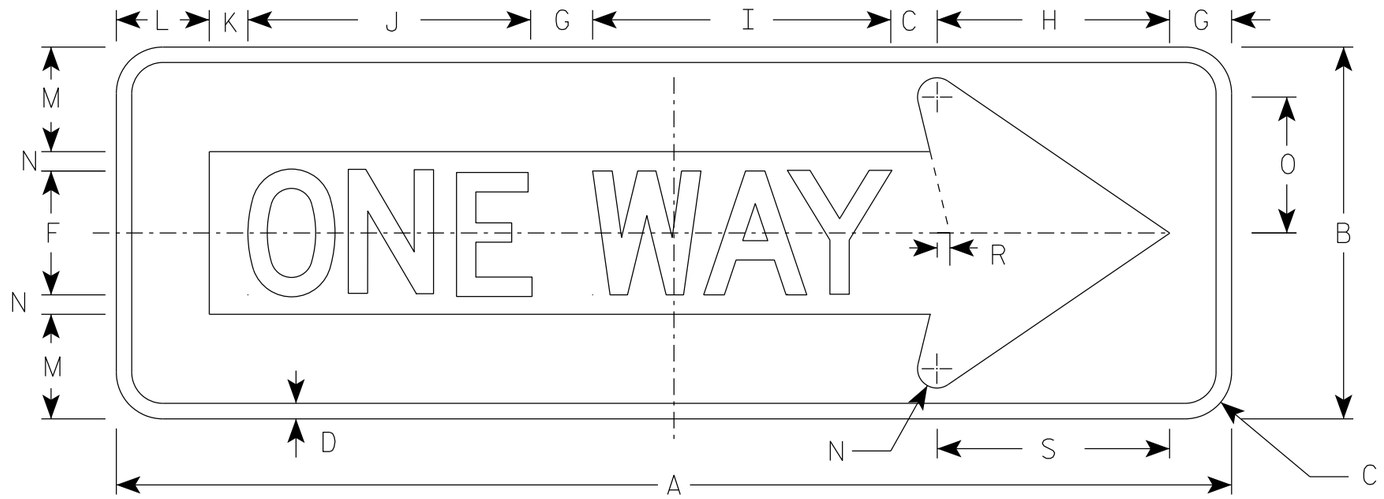
STANDARD SIGN
R5-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-3.2

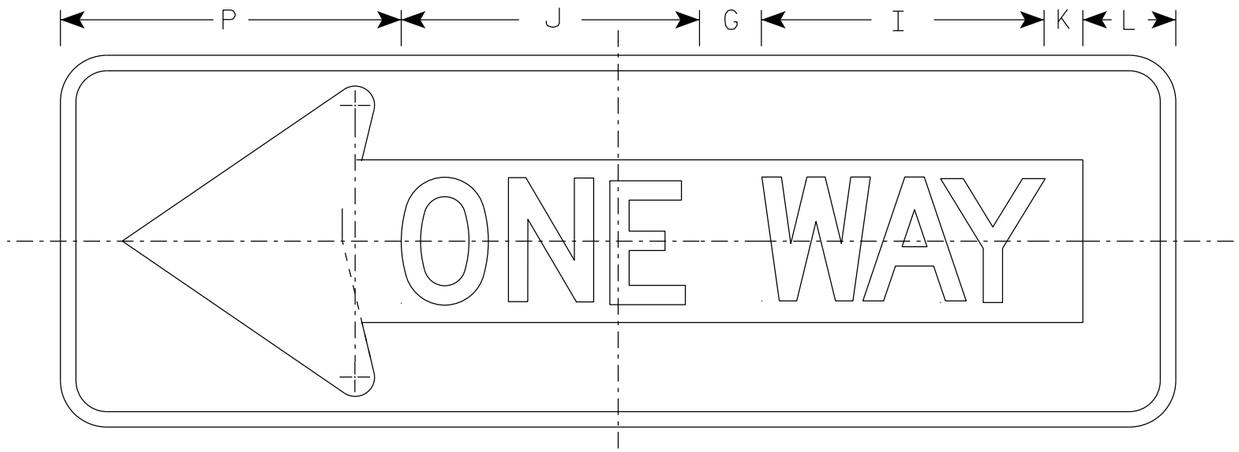
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 406 | E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN
R6-1 L & R

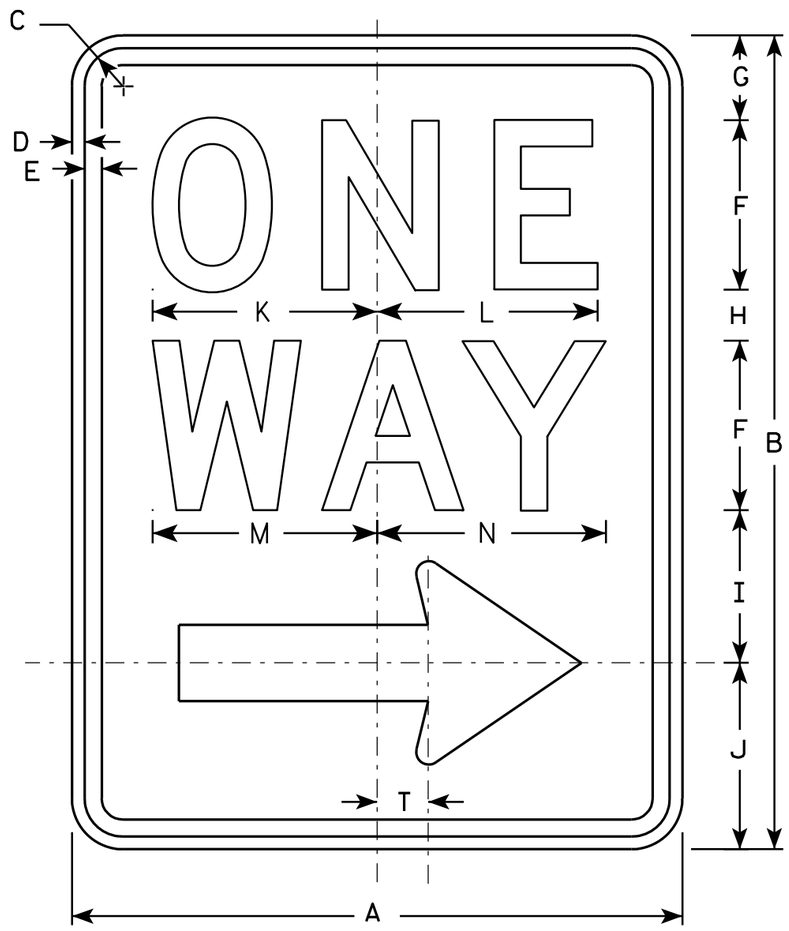
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 07/11/18 PLATE NO. R6-1.3

PROJECT NO:

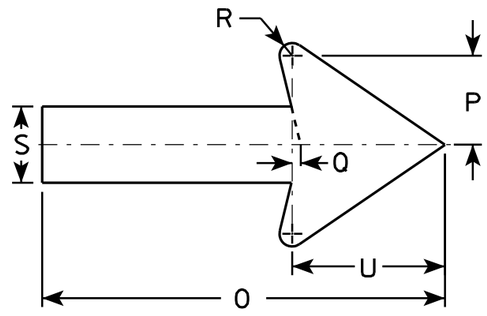
SHEET NO: 407 E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

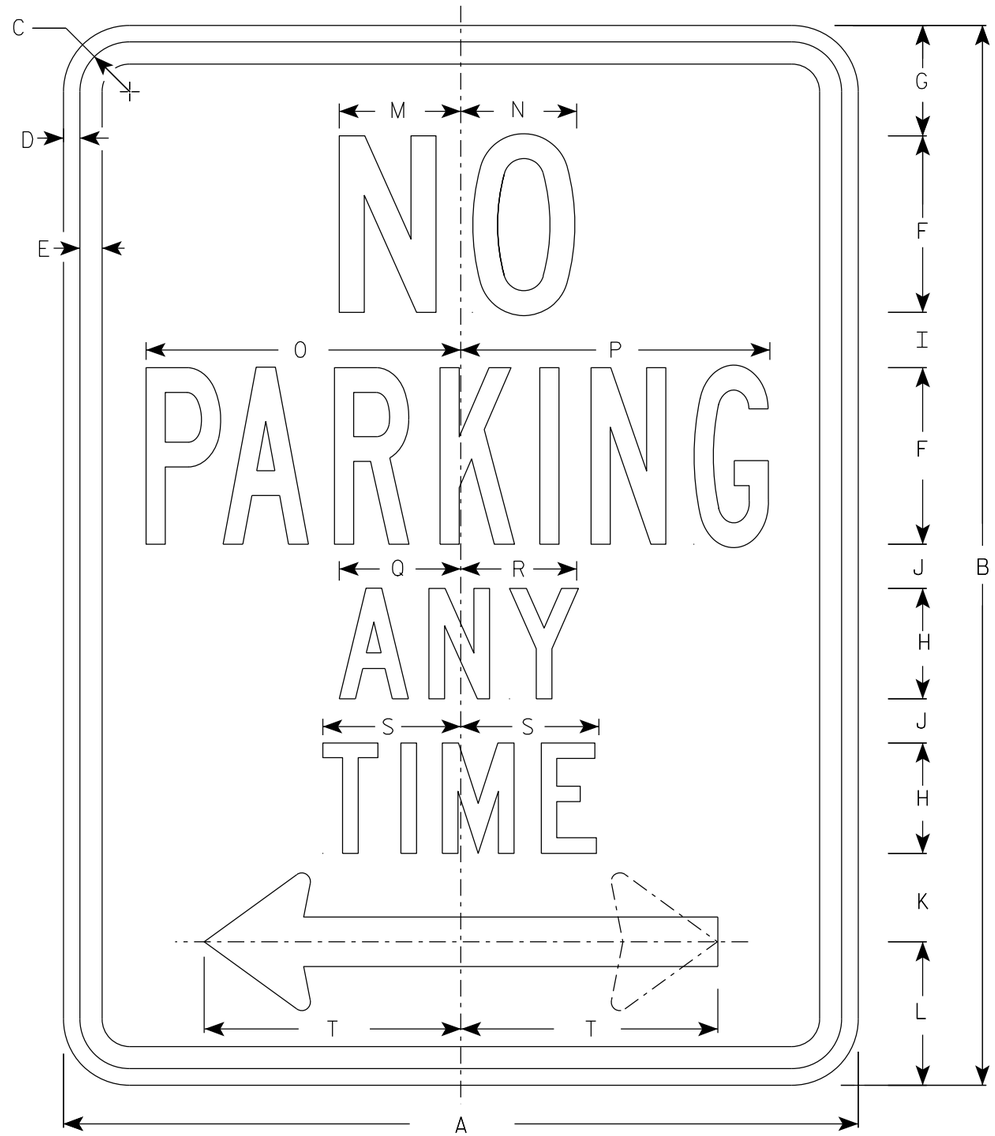
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

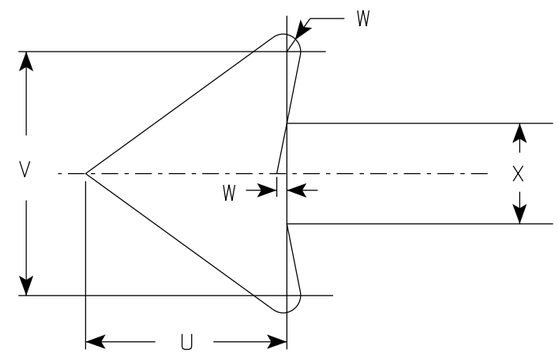
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 408	E



R7-1



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

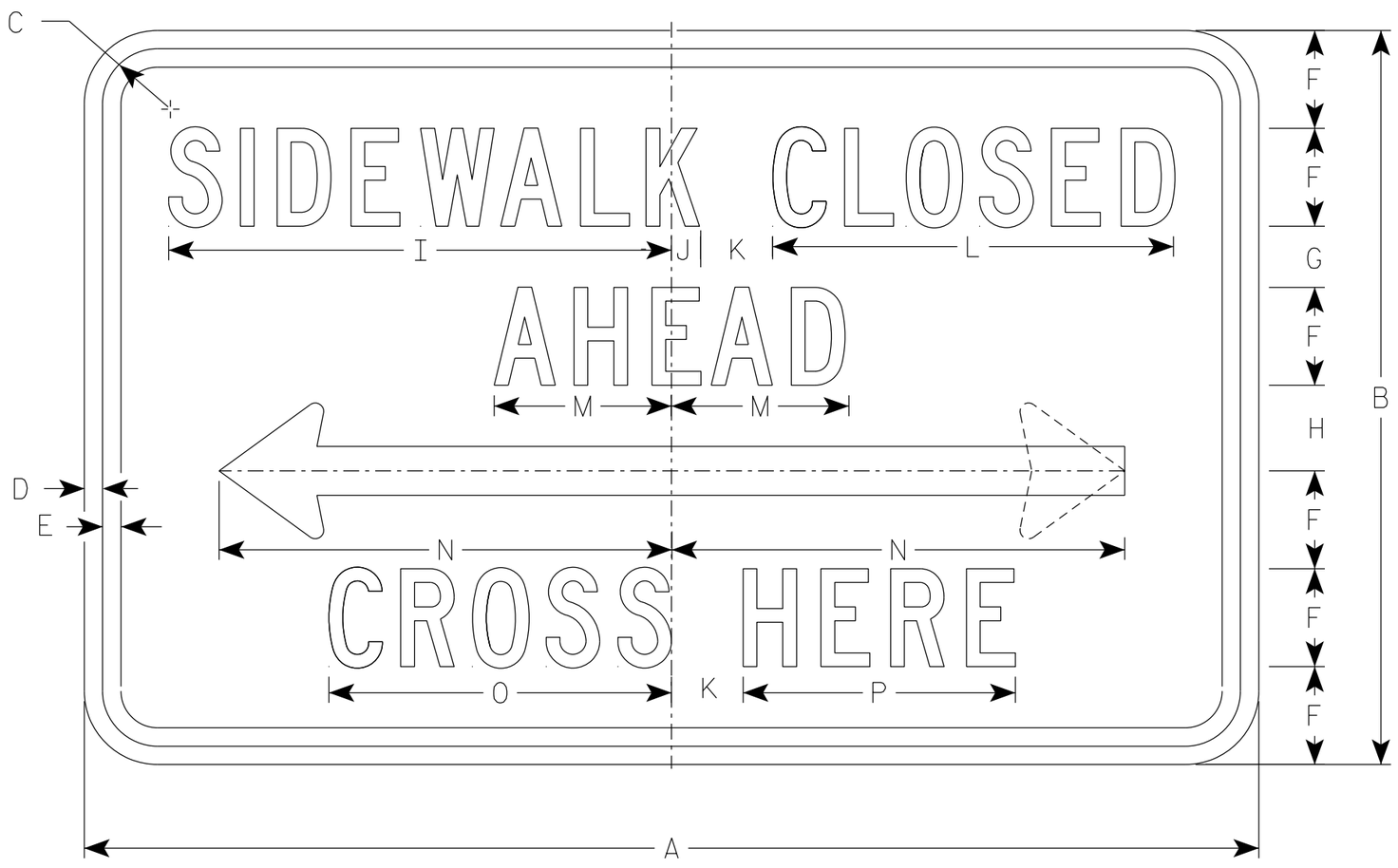
STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

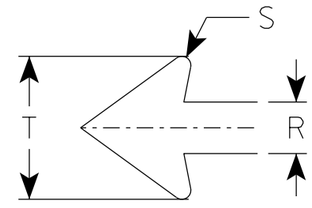
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2021 PLATE NO. R7-1.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 409 E



R9-11



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C except Size 1 is 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. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.
6. R9-11 D (double arrow)
   R9-11 L (left arrow)
   R9-11 R (right arrow)

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
2M	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
3	30	15	1 1/8	3/8	1/2	2	1 1/2	1 1/2	13	3/4	2	10 1/4	4 5/8	12 3/8	8 7/8	6 7/8		1 1/4	1/4	3 5/8							3.125
4																											
5																											

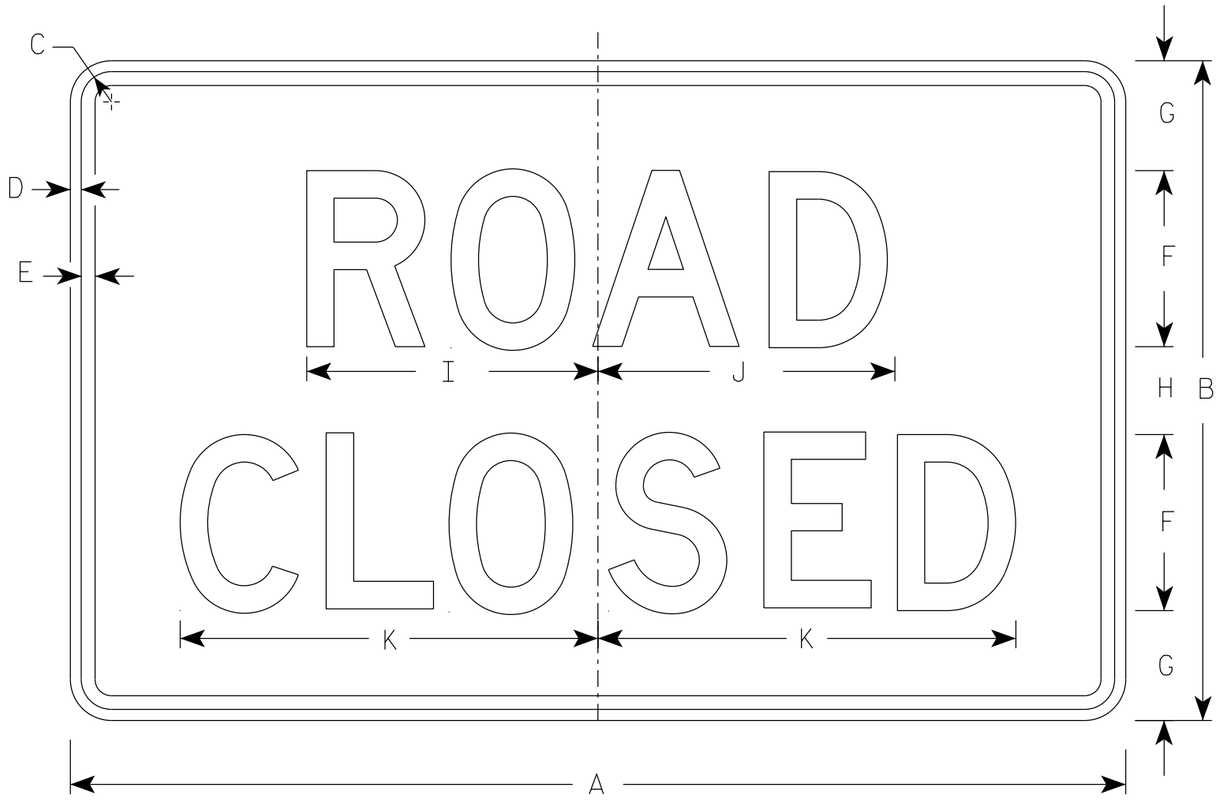
STANDARD SIGN
R9-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/30/2021 PLATE NO. R9-11.4

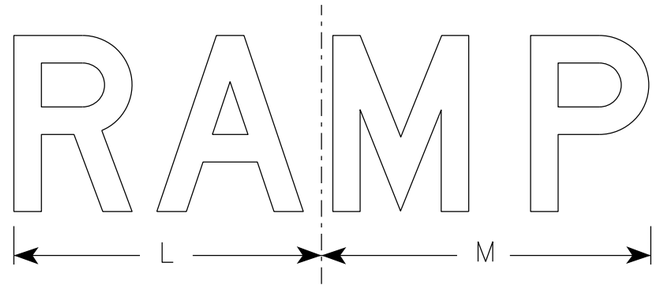
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 410 | E



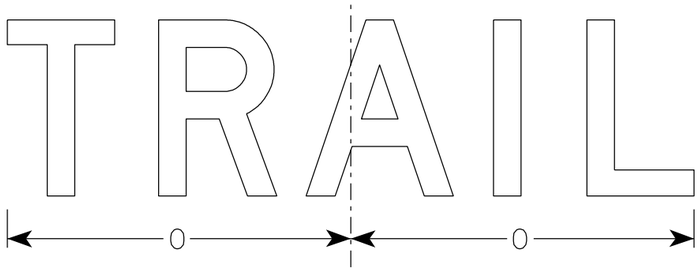
R11-2

NOTES

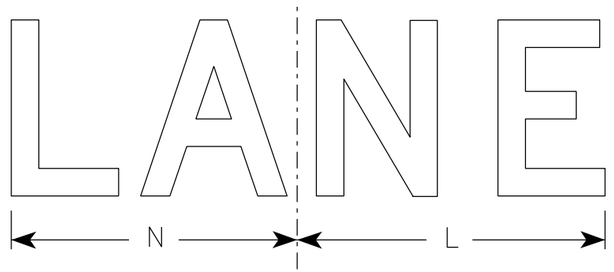
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



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	15 5/8												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	15 5/8												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	15 5/8												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	15 5/8												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	15 5/8												10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

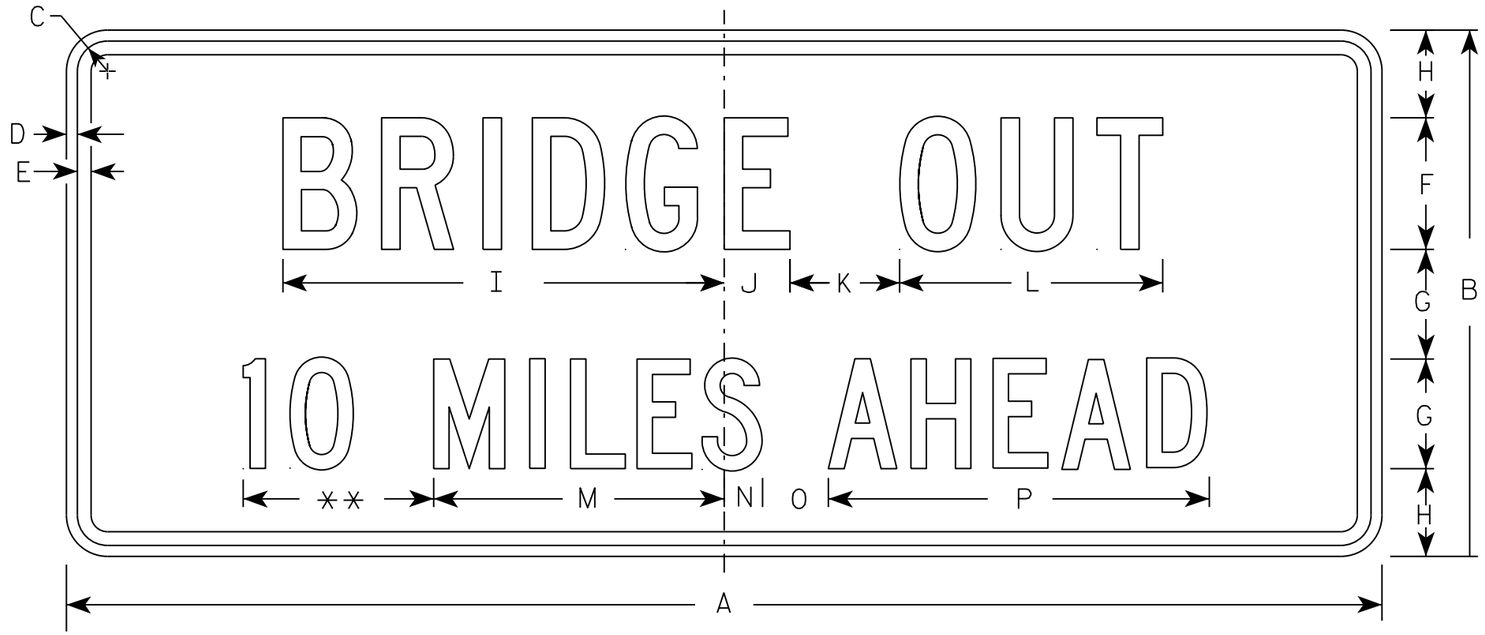
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 411 E

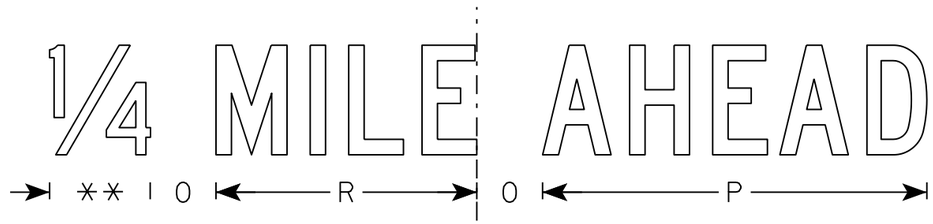
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3C

** See Note 5



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4		7 1/8									3.75
2S	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 7/8									10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 7/8									10.0
3																											
4																											
5																											

STANDARD SIGN
R11-3C

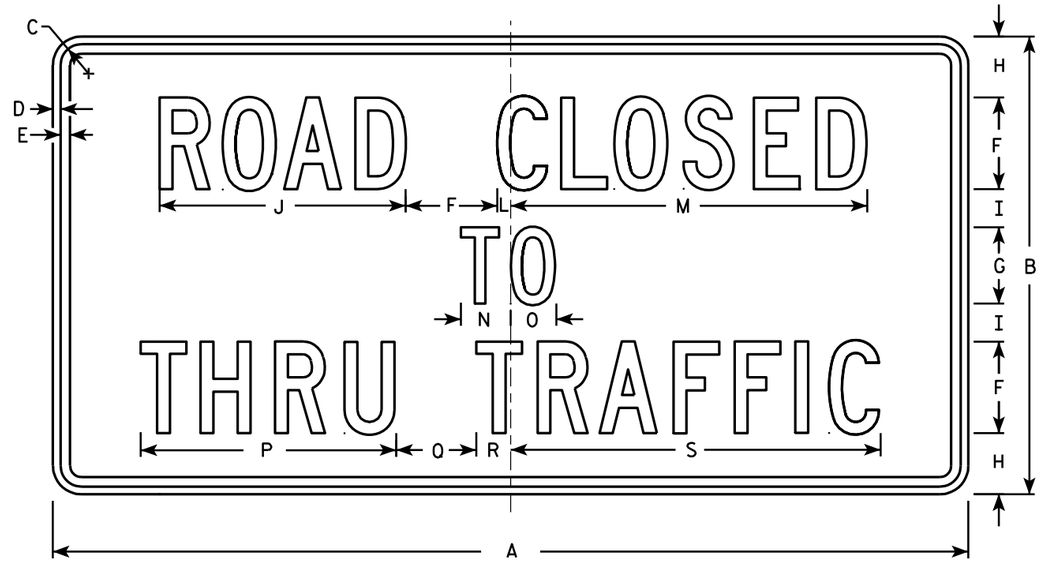
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/28/16 PLATE NO. R11-3C.3

PROJECT NO:

SHEET NO: 412 E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

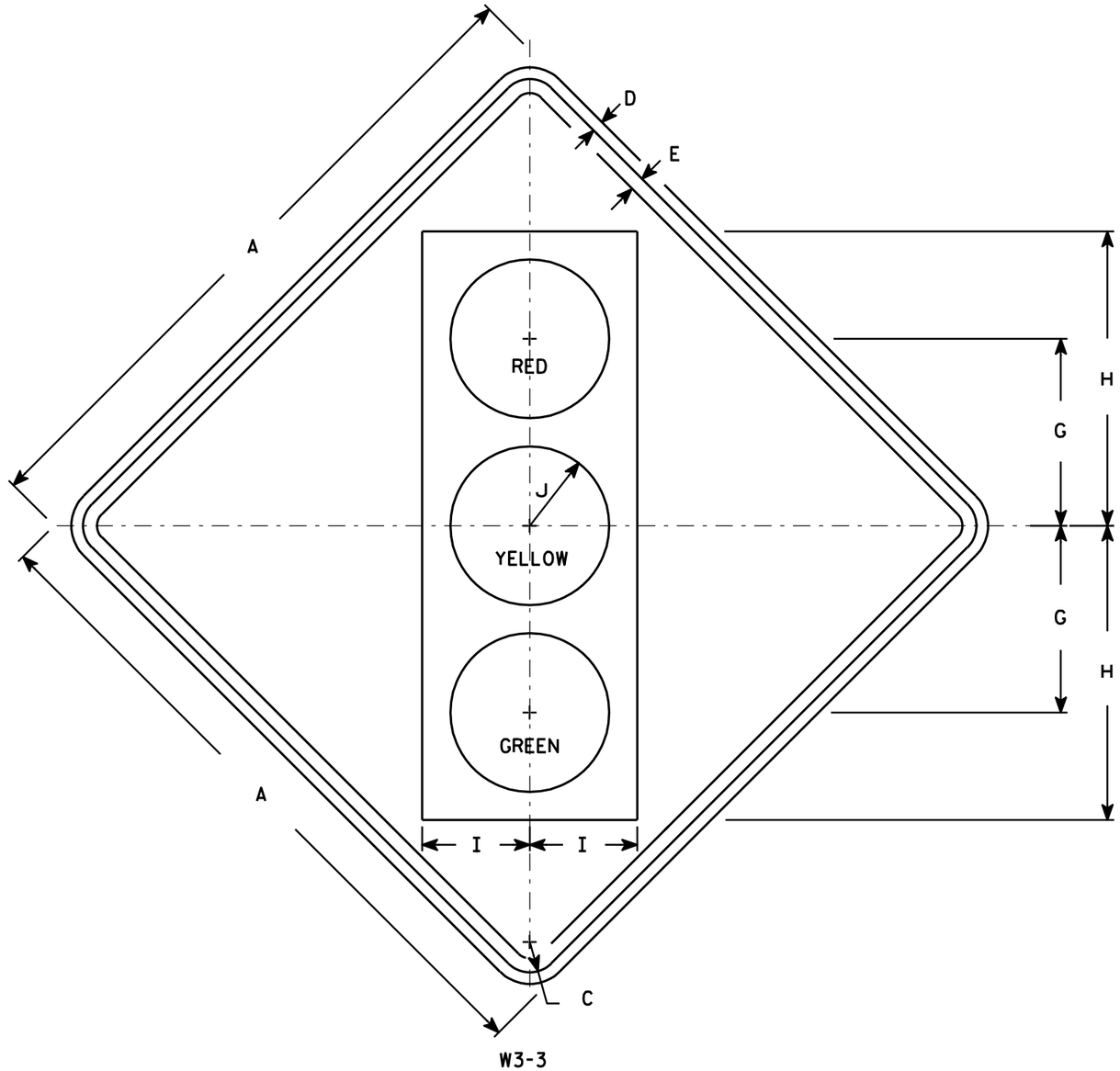
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 413 | 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 - 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

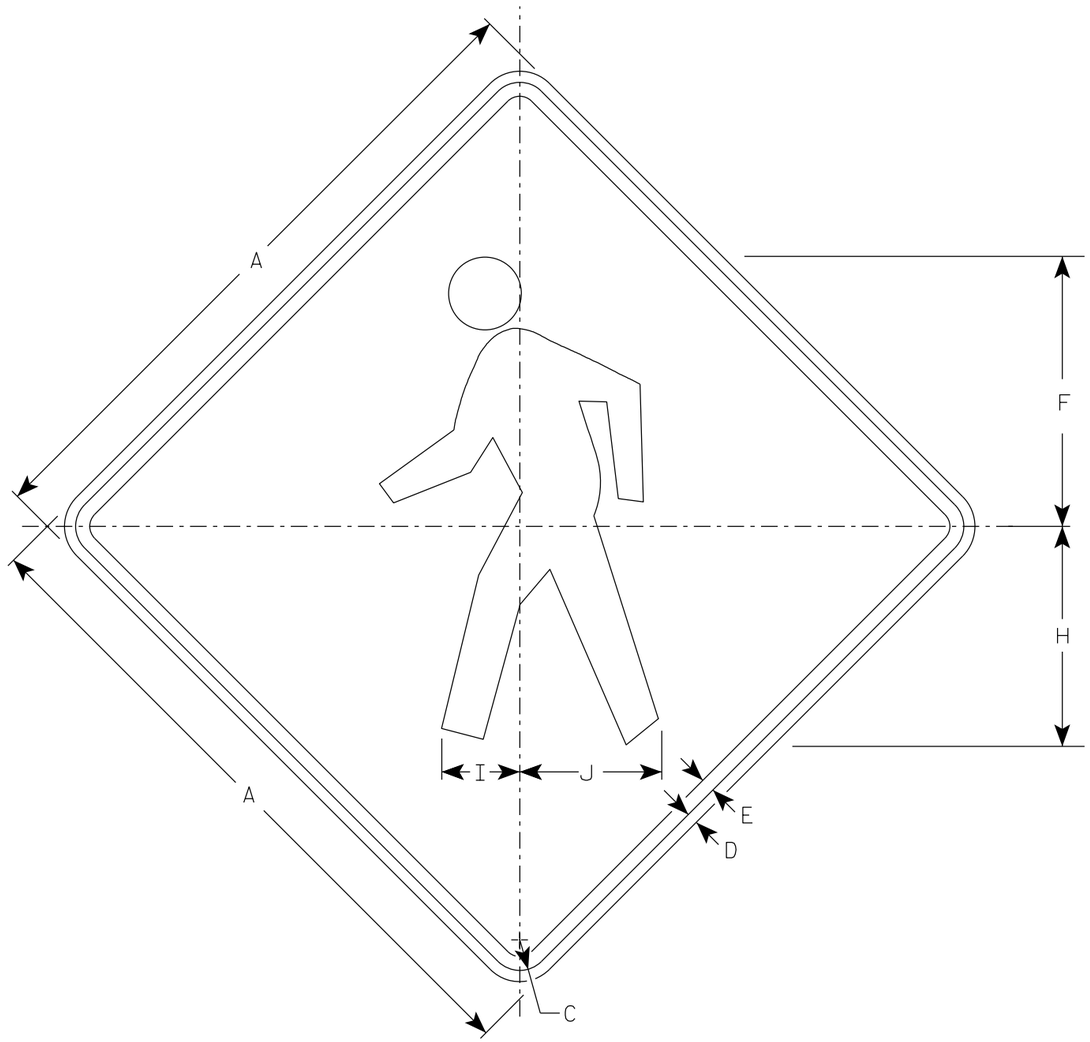
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 414 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W33.DGN PLOT DATE : 07-JUN-2010 13:07 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 7.448805:1.000000
WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black



W11-2

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	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

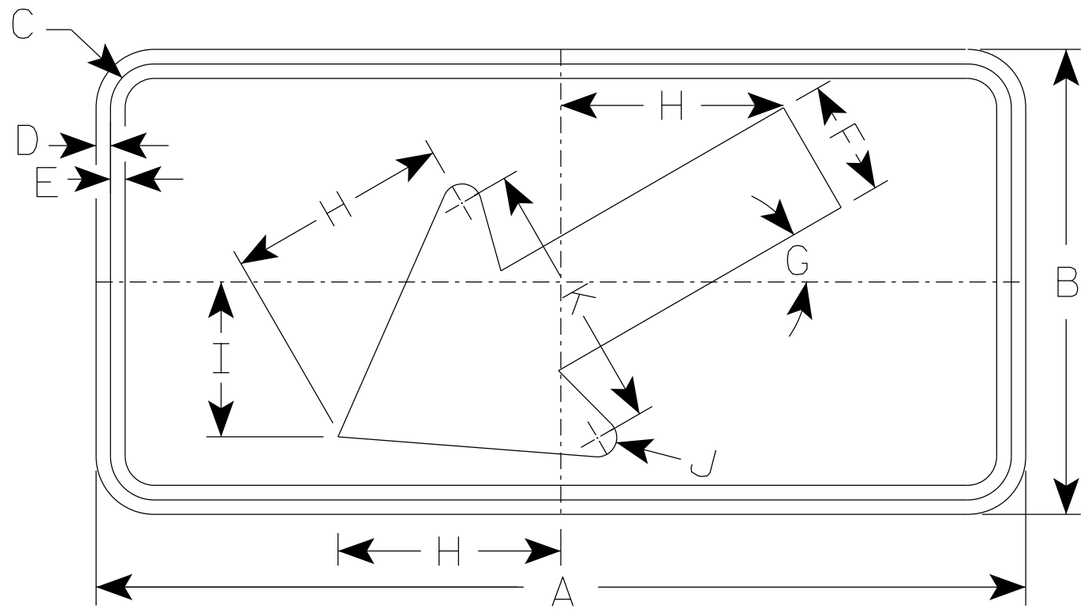
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/8/2020 PLATE NO. W11-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 415	E



W16-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W16-7R is the same as W16-7L except the arrow is reversed along the vertical centerline.

* For 36" x 36" Warning Signs, use 30" x 18" W16-7L signs.
* For 48" x 48" Warning Signs, use 48" x 24" W16-7L signs.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	3	30°	5 3/4	4	1/2	7																2.0
* 2M	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
* 3	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
* 4	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5																											

STANDARD SIGN
W16-7

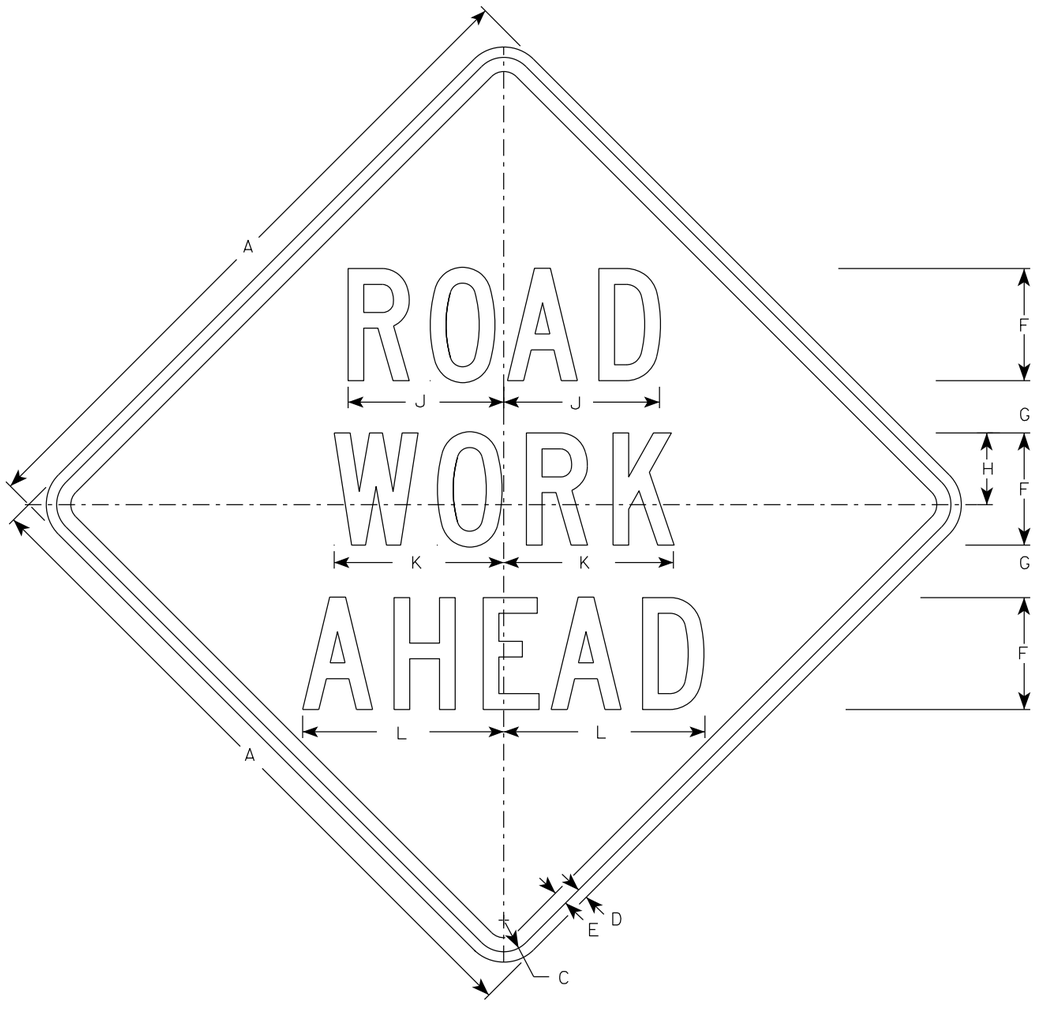
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

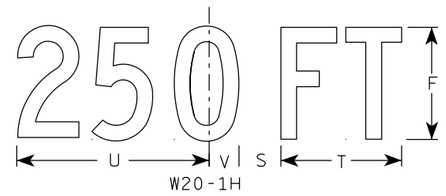
DATE 3/16/2021 PLATE NO. W16-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 416	E

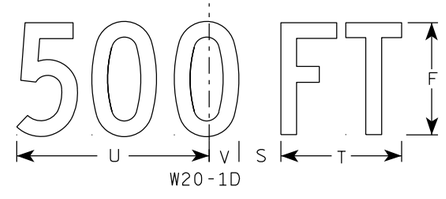
7



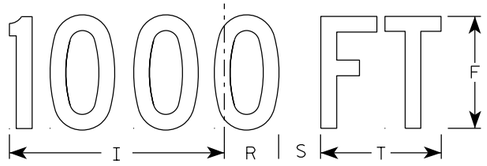
W20-1A



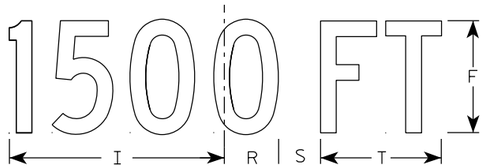
W20-1H



W20-1D



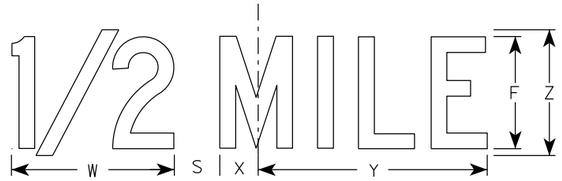
W20-1C



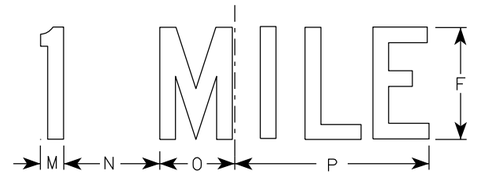
W20-1B

NOTES

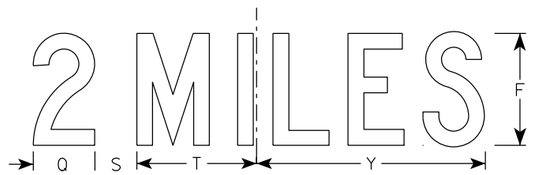
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

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	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	3 1/4	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, E, F, G & H

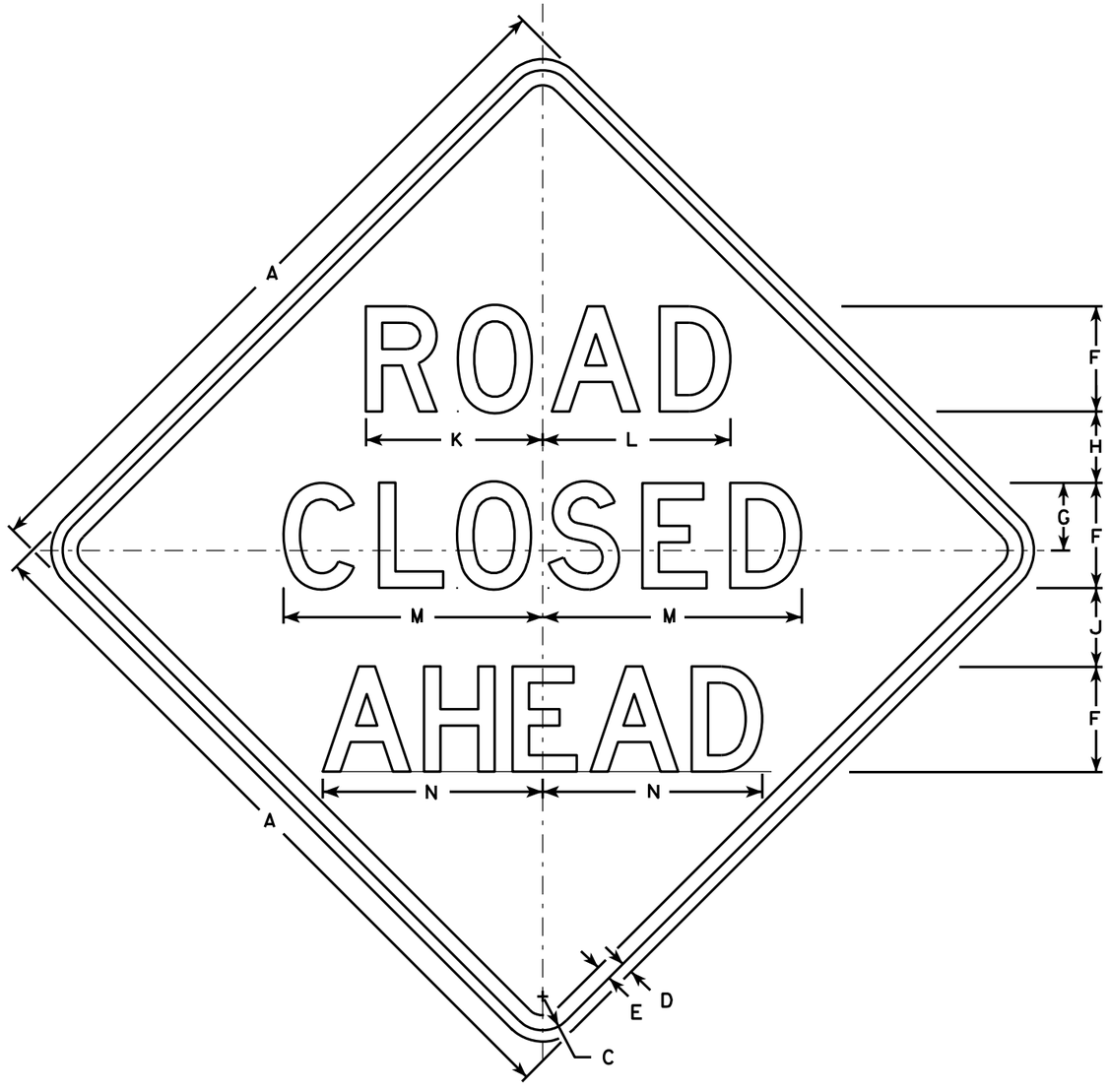
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

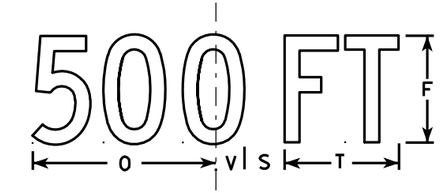
DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

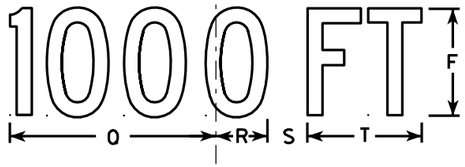
SHEET NO: 417 E



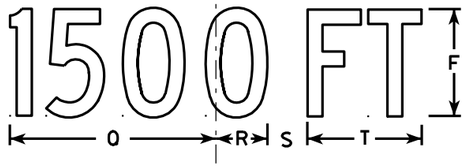
W20-3A



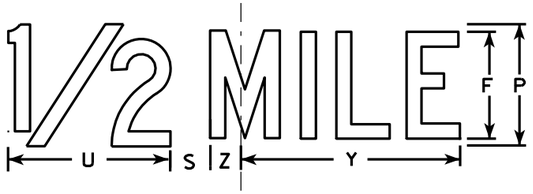
W20-3D



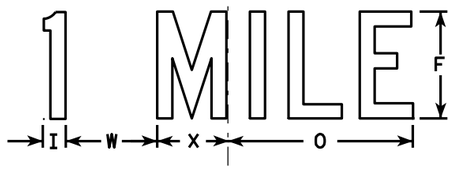
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

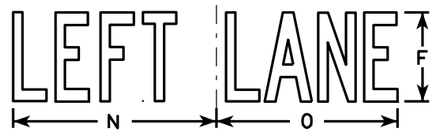
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 418 | E

7

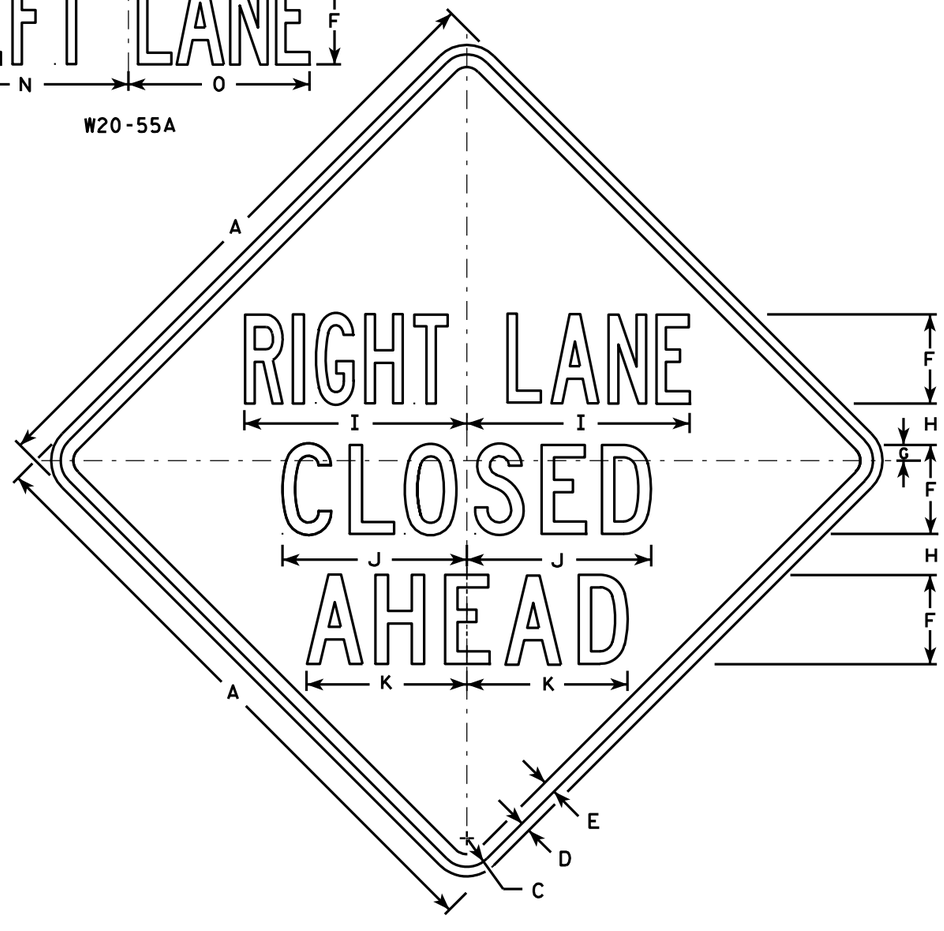
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



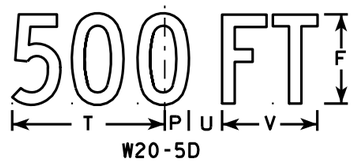
W20-56A



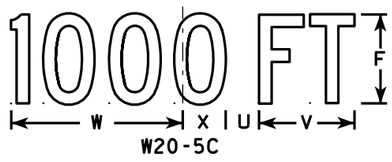
W20-55A



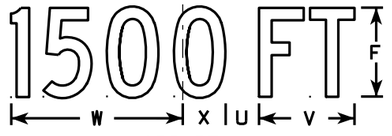
W20-5A



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

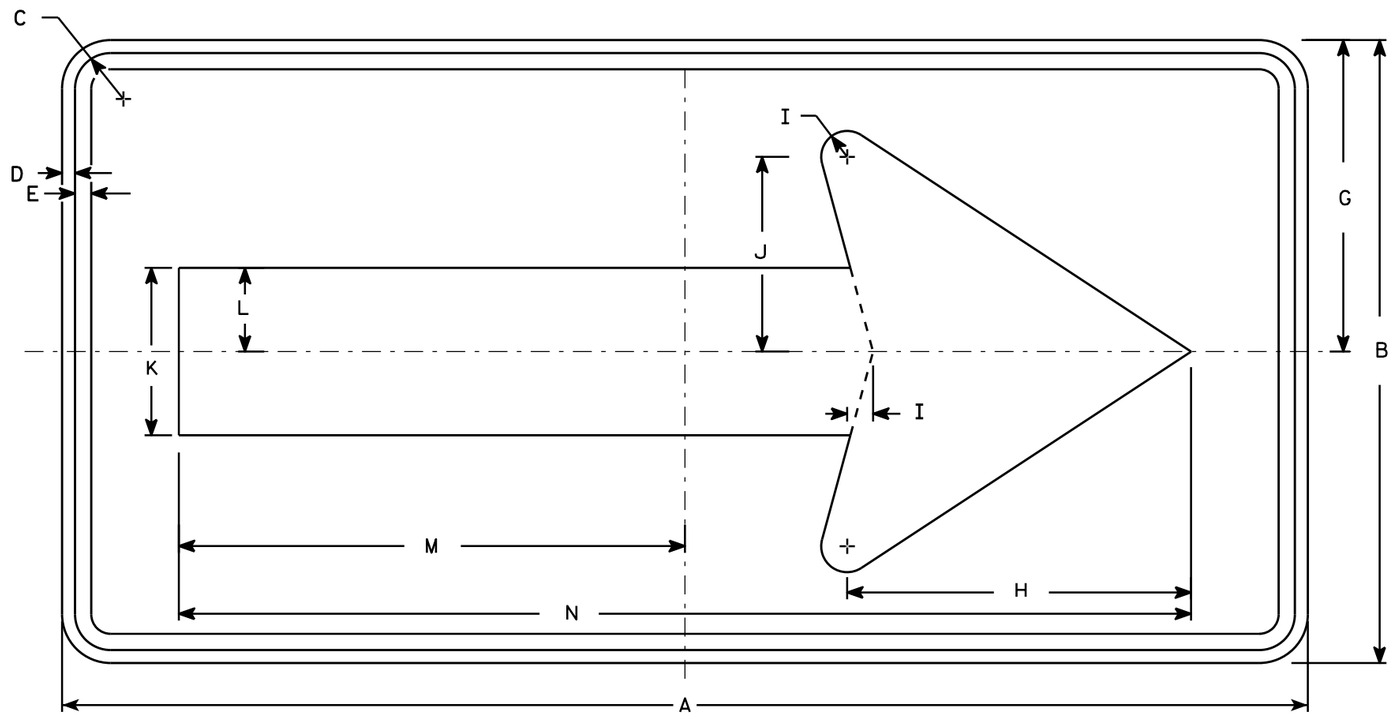
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 419 | E

7

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



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

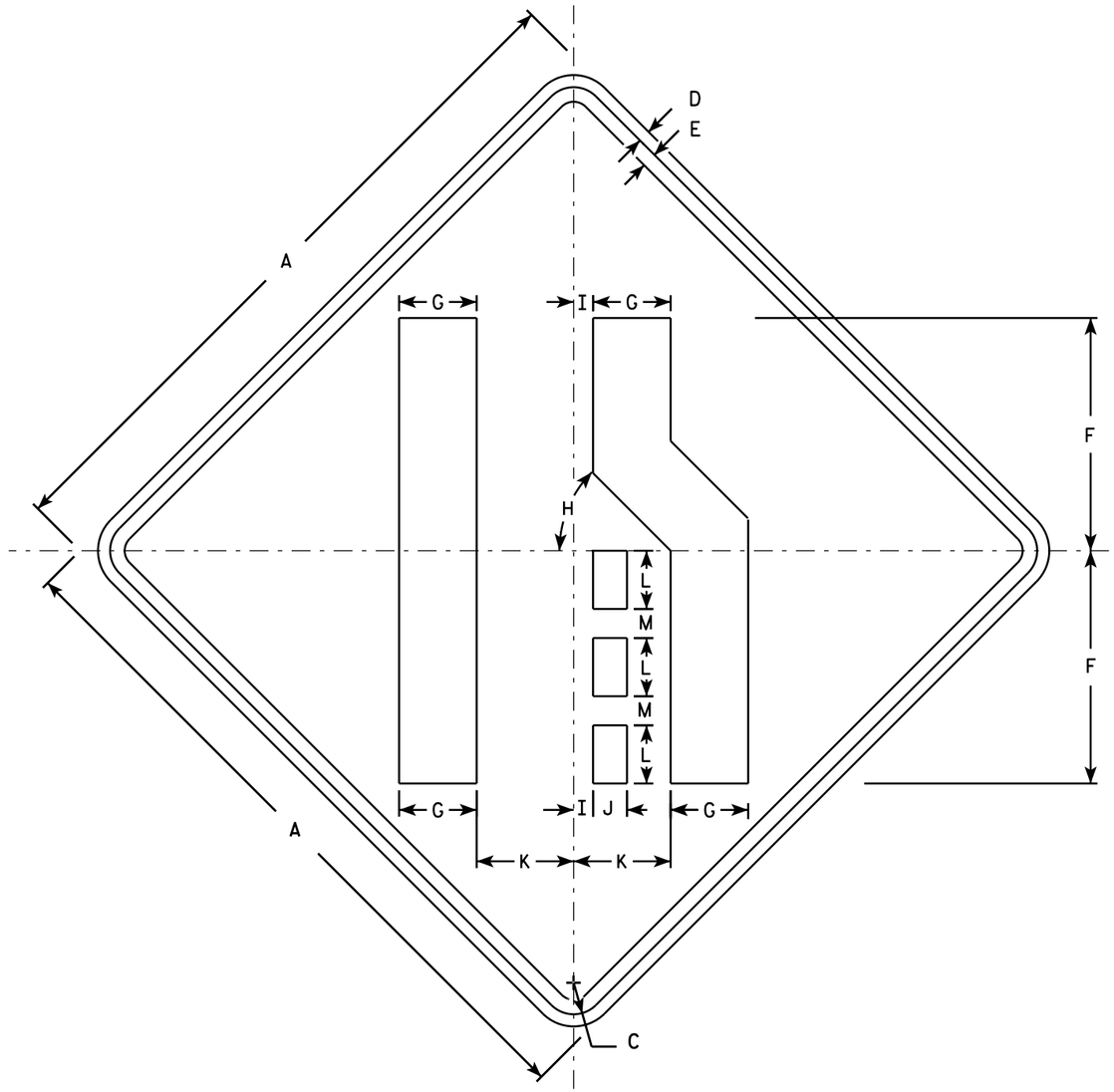
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE 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



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

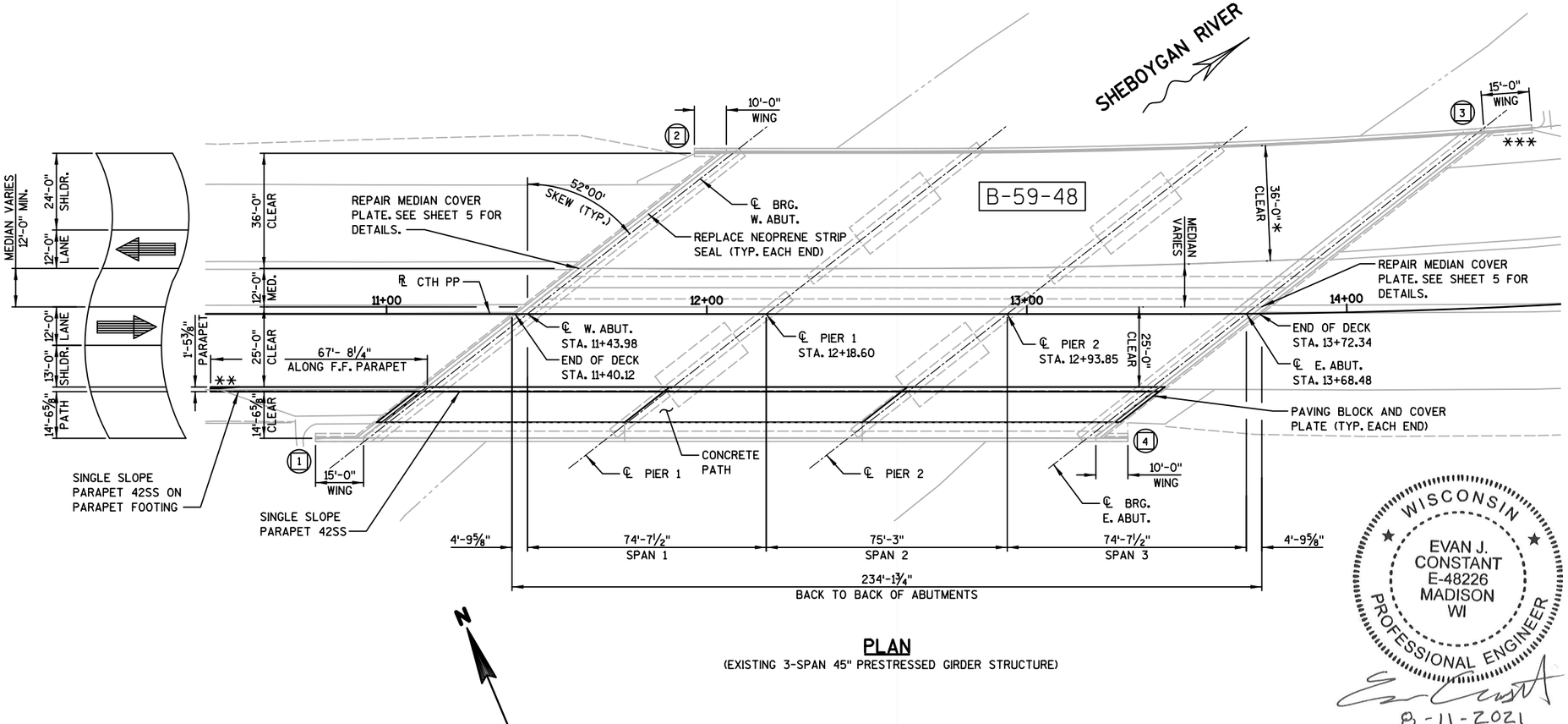
DATE 11/20/13 PLATE 421 W04-2.1

PROJECT NO:

SHEET NO: E

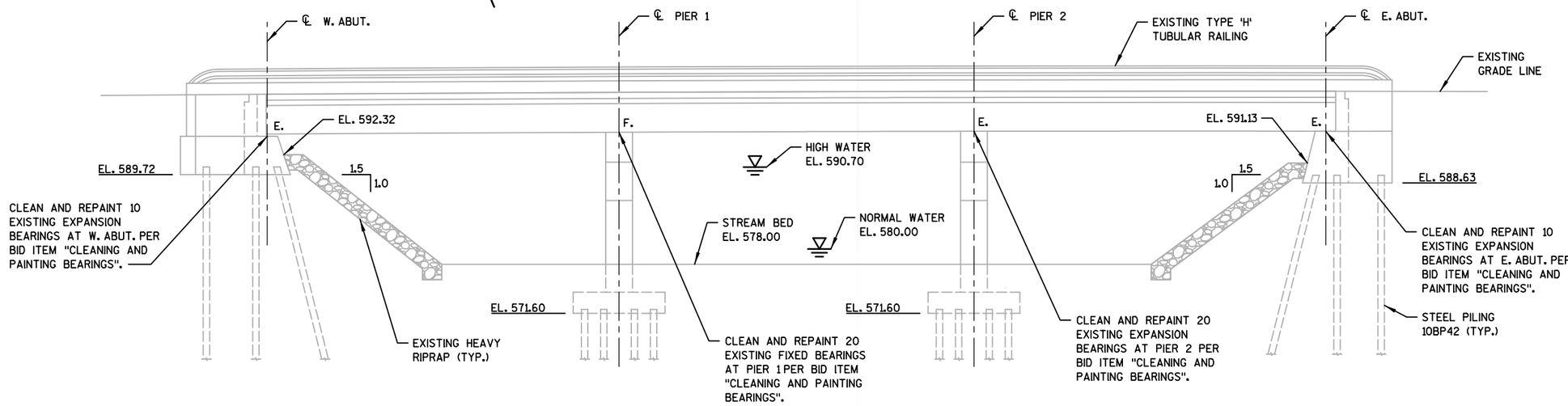
STATE PROJECT NUMBER

4291-02-71



PLAN

(EXISTING 3-SPAN 45" PRESTRESSED GIRDER STRUCTURE)



ELEVATION

(NORMAL TO SUBSTRUCTURE UNITS)

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
1	STA. 14+75.67 75.79' RT	SPIKE IN N. SIDE OF POWER POLE	593.71

BENCH MARK IS OUTSIDE OF PLAN EXTENTS. SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING	HS20
INVENTORY RATING	HS14
OPERATING RATING	HS24
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV)	170 KIPS

MATERIAL PROPERTIES:

CONCRETE SUPERSTRUCTURE	f'c = 4,000 PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60)	fy = 60,000 PSI

TRAFFIC DATA

CTH PP/INDIANA AVE.
A.D.T. (2022) = 8,100
A.D.T. (2042) = 9,700
DESIGN SPEED = 50 MPH

LEGEND

* MEASURED RADIALLY

(X) INDICATES WING NUMBER.

** PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT TO SINGLE SLOPE PARAPET 42SS.

*** PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT TO EXISTING PARAPET PER S.D.D. 14B45-5e. COORDINATE PARAPET CLEANING, SURFACE REPAIRS, AND SEALING WORK AFTER EXISTING BEAM GUARD IS REMOVED AND BEFORE NEW BEAM GUARD IS ATTACHED.

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION, NOTES & QUANTITIES
3. CONSTRUCTION STAGING
4. SUPERSTRUCTURE PLAN & DETAILS
5. COVER PLATE AND MEDIAN REPAIR DETAILS
6. PARAPET FOOTING
7. SINGLE SLOPE PARAPET 42SS

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE CONTACT:
AARON BONK (608) 261-0261

DESIGN CONSULTANT CONTACT:
EVAN CONSTANT (608) 251-4843

WISCONSIN
EVAN J. CONSTANT
E-48226
MADISON
WI
PROFESSIONAL ENGINEER
8-11-2021

NO.	DATE	REVISION	BY

STRAND ASSOCIATES®
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 08/23/21
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-59-48

CTH PP/INDIANA AVE. OVER SHEBOYGAN RIVER

COUNTY SHEBOYGAN	~~TOWN~~/CITY/~~VILLAGE~~ SHEBOYGAN
DESIGN SPEC. REHABILITATION N/A	
DESIGNED BY EJC	DESIGN CK'D. KRB
DRAWN BY DTH	PLANS CK'D. KRB

GENERAL PLAN

SHEET 1 OF 7
422

FILE NAME : S:\MIL\3700--3799\3774\007\Drawings\CAD\Microstation\Plan\080101_gn.dgn

STATE PROJECT NUMBER

4291-02-71

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	W. ABUT	PIER 1	PIER 2	E. ABUT.	SUPERSTRUCTURE	TOTAL	UNIT
203.0211.S	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-59-0048	---	---	---	---	1	1	EACH
502.0100	CONCRETE MASONRY BRIDGES	19	---	---	---	103	122	CY
502.3200	PROTECTIVE SURFACE TREATMENT	2	---	---	2	756	760	SY
502.3210	PIGMENTED SURFACE SEALER	61	---	---	7	312	380	SY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	---	---	---	---	56	56	EACH
502.4206	ADHESIVE ANCHORS NO. 6 BAR	4	---	---	---	418	422	EACH
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	2650	---	---	---	8410	11,060	LB
509.1200	CURB REPAIR	---	---	---	---	697	697	LF
509.1500	CONCRETE SURFACE REPAIR	10	---	---	10	638	658	SF
509.9020.S	EPOXY CRACK SEALING	18	---	---	18	---	36	LF
509.9050.S	CLEANING PARAPETS	25	---	---	25	466	516	LF
513.9006.S	REMOVING AND RESETTING TUBULAR RAILING B-59-0048	---	---	---	---	1	1	EACH
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	---	---	---	---	1	1	EACH
SPV.0035.01	CONCRETE SURFACE REPAIR CORROSION INHIBITING ADMIXTURE	---	---	---	---	13	13	CY
SPV.0060.15	CLEANING AND PAINTING BEARINGS	10	20	20	10	---	60	EACH
SPV.0060.16	STEEL EXPANSION JOINT COVER PLATE REPAIRS	---	---	---	---	2	2	EACH
SPV.0090.04	STRIP SEAL GLAND REPLACEMENT	---	---	---	---	288	288	LF
SPV.0090.05	SIDEWALK COVER PLATE	---	---	---	---	32	32	LF
	NON-BID ITEMS							
	FILLER	---	---	---	---	---	1/2", 3/4"	SIZE

LEGEND

☐ "CLEANING PARAPETS" LIMITS.

◭ "PIGMENTED SURFACE SEALER" LIMITS. APPLY PIGMENTED SURFACE SEALER TO TOP, ROADWAY, AND END FACES OF PARAPETS AFTER WORK IS COMPLETED FOR "CLEANING PARAPETS" AND "CONCRETE SURFACE REPAIR" BID ITEMS.

⊗ "PROTECTIVE SURFACE TREATMENT" LIMITS. APPLY PROTECTIVE SURFACE TREATMENT TO TOP AND ROADWAY FACES OF CURB, MEDIAN AND MULTI-USE PATH AFTER WORK IS COMPLETED FOR "CONCRETE SURFACE REPAIR" AND "CURB REPAIR" BID ITEMS.

✳ MEASURED RADIALLY.

GENERAL NOTES

THE PROPOSED WORK INCLUDES CLEANING AND REPAINTING ALL BEARINGS, STRIP SEAL COVER PLATE REPAIRS, CONCRETE SURFACE REPAIR AT PARAPETS, SIDEWALK, AND CURBS, EPOXY CRACK SEALING AT CRACKS IN SUBSTRUCTURE UNITS, STRIP SEAL EXPANSION JOINT GLAND REPLACEMENT AT ABUTMENTS, AND NEW SIDEWALK AND PARAPET.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS AND SUBSEQUENT REHABILITATION PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS ARE IN FEET.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1-INCH DEEP SAW CUT.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

AT "CURB REPAIR", EXPOSE EXISTING REINFORCEMENT A MINIMUM OF 1" CLEAR.

THE CONCRETE REQUIRED FOR "CURB REPAIR" IS INCLUDED IN THE QUANTITY FOR "CONCRETE MASONRY BRIDGES."

PARAPETS SHALL BE CLEANED PER "CLEANING PARAPETS" BID ITEM.

PERFORM CONCRETE SURFACE REPAIR AT EXISTING PARAPETS, MEDIAN, SIDEWALK, AND ABUTMENTS AS DIRECTED BY THE FIELD ENGINEER. QUANTITY SHOWN IS APPROXIMATE.

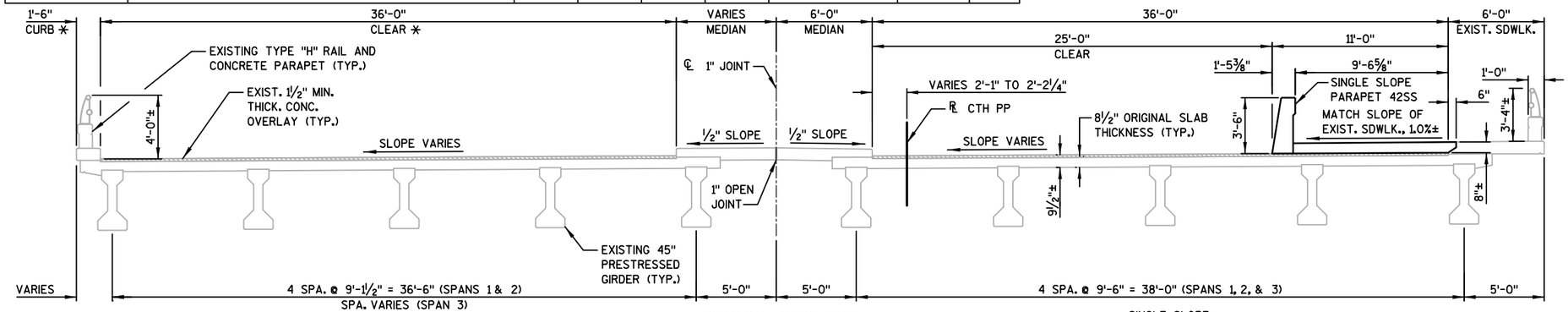
ANY EXCAVATION REQUIRED TO COMPLETE THE CONCRETE SURFACE REPAIRS AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE SURFACE REPAIR."

BEVEL ALL EXPOSED EDGES OF NEW CONCRETE ¾" UNLESS OTHERWISE NOTED.

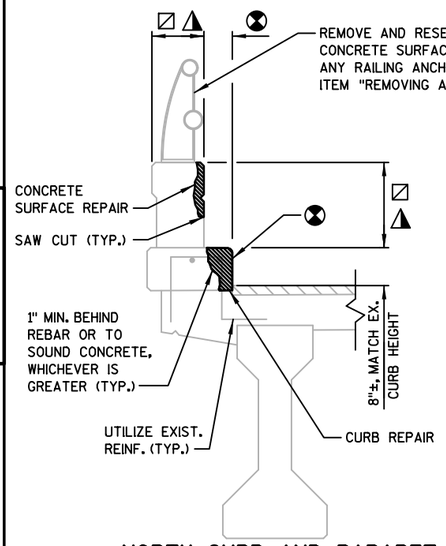
AFTER CLEANING, BEARINGS SHALL BE PAINTED AMS STANDARD COLOR NO. 26293 (LIGHT GRAY).

THE FIRST DIGIT OF BAR MARKS SIGNIFIES THE BAR SIZE.

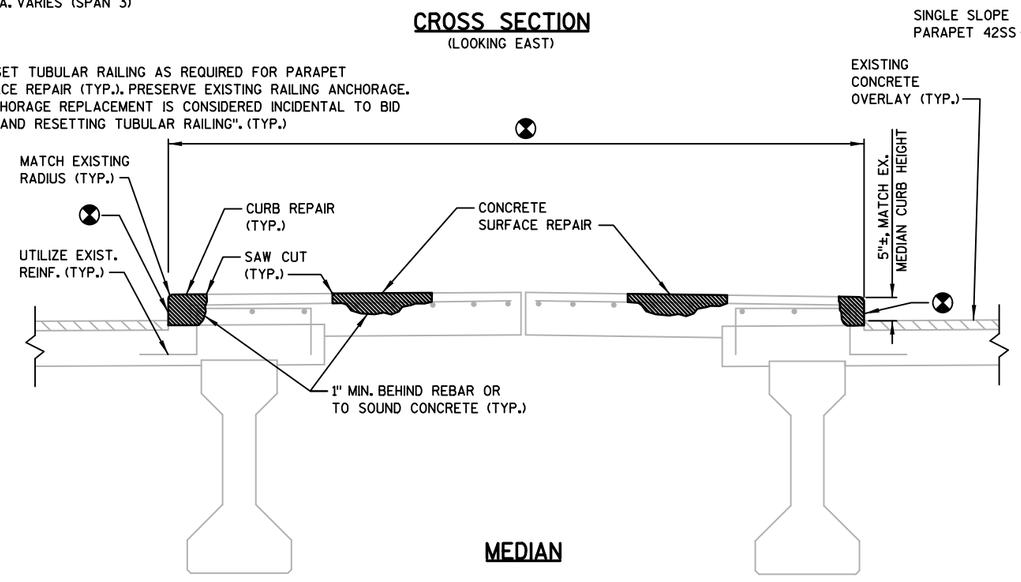
BAR STEEL SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.



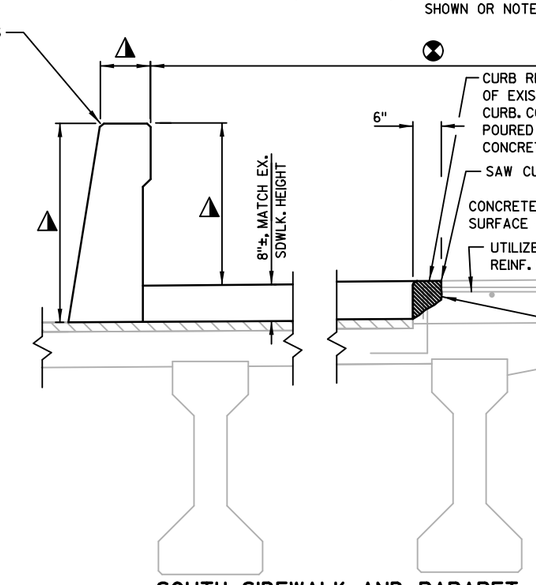
CROSS SECTION
(LOOKING EAST)



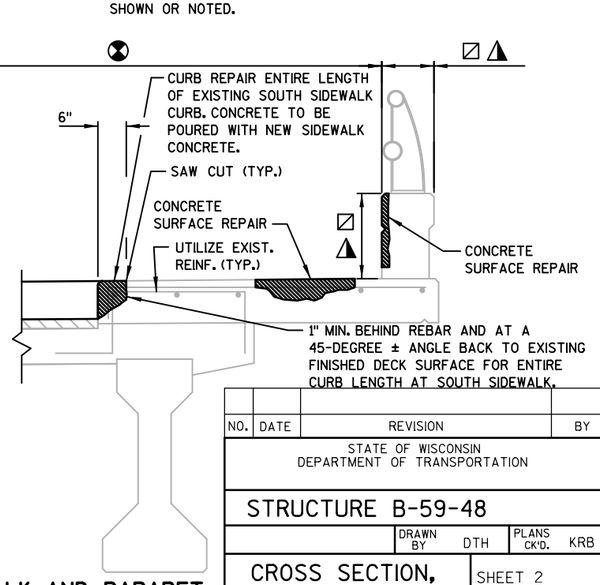
NORTH CURB AND PARAPET



MEDIAN



SOUTH SIDEWALK AND PARAPET



PARAPET AND CURB REPAIR DETAILS
(LOOKING EAST)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-59-48

DRAWN BY DTH | PLANS CK'D. KRB

CROSS SECTION, NOTES AND QUANTITIES

SHEET 2
423

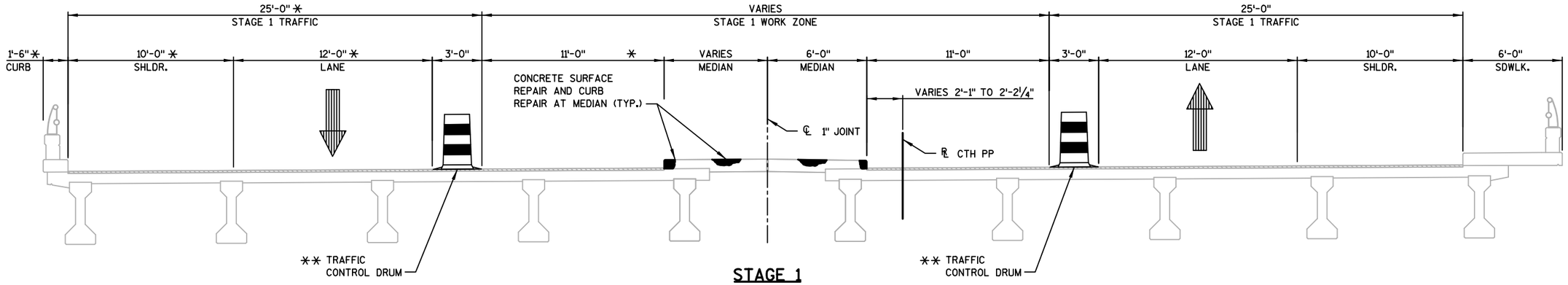
8

8

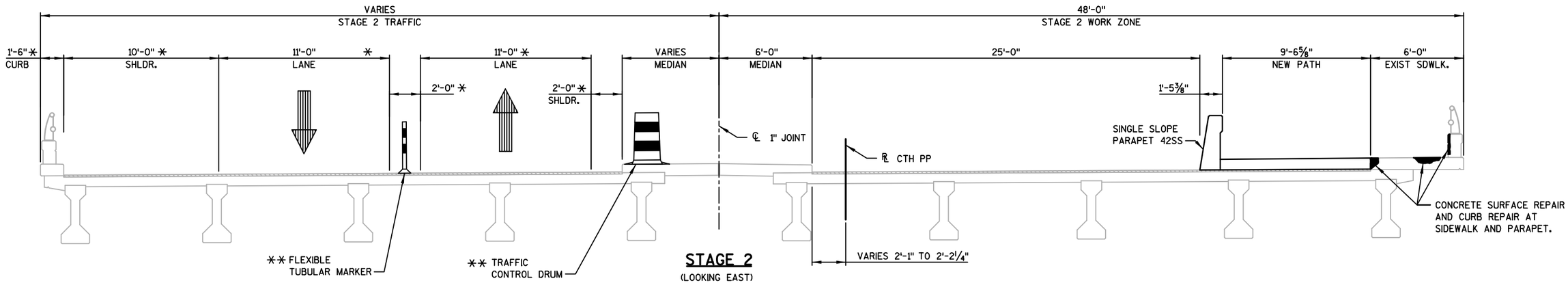
FILE NAME : S:\MIL\3700--3799\3774\007\Drawings\CAD\Microstation\Plan\080102_cs.dgn

STATE PROJECT NUMBER

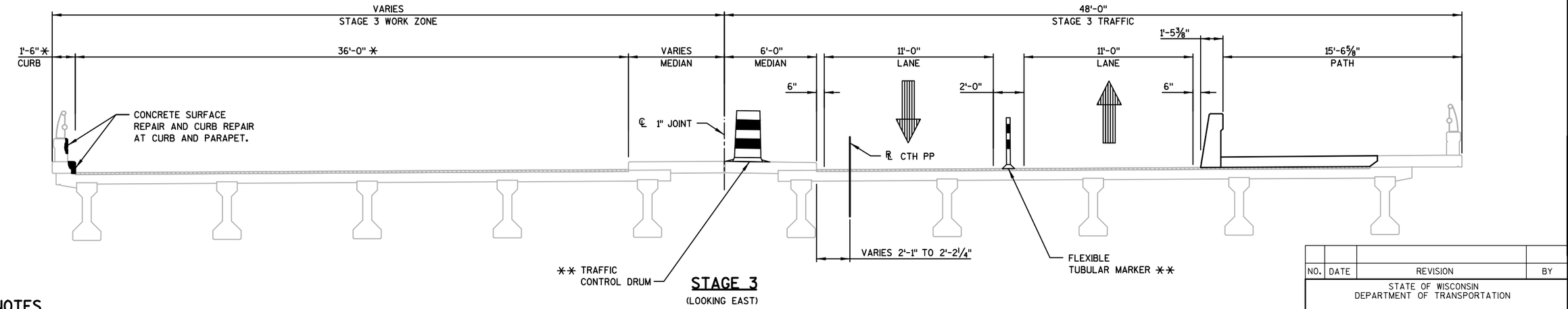
4291-02-71



STAGE 1
(LOOKING EAST)



STAGE 2
(LOOKING EAST)



STAGE 3
(LOOKING EAST)

NOTES

SEE ROADWAY PLANS FOR ADDITIONAL STAGING INFORMATION

LEGEND

✳ MEASURED RADIALLY.

✳✳ SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-59-48

DRAWN BY DTH | PLANS CK'D. KRB

CONSTRUCTION STAGING

SHEET 3
424

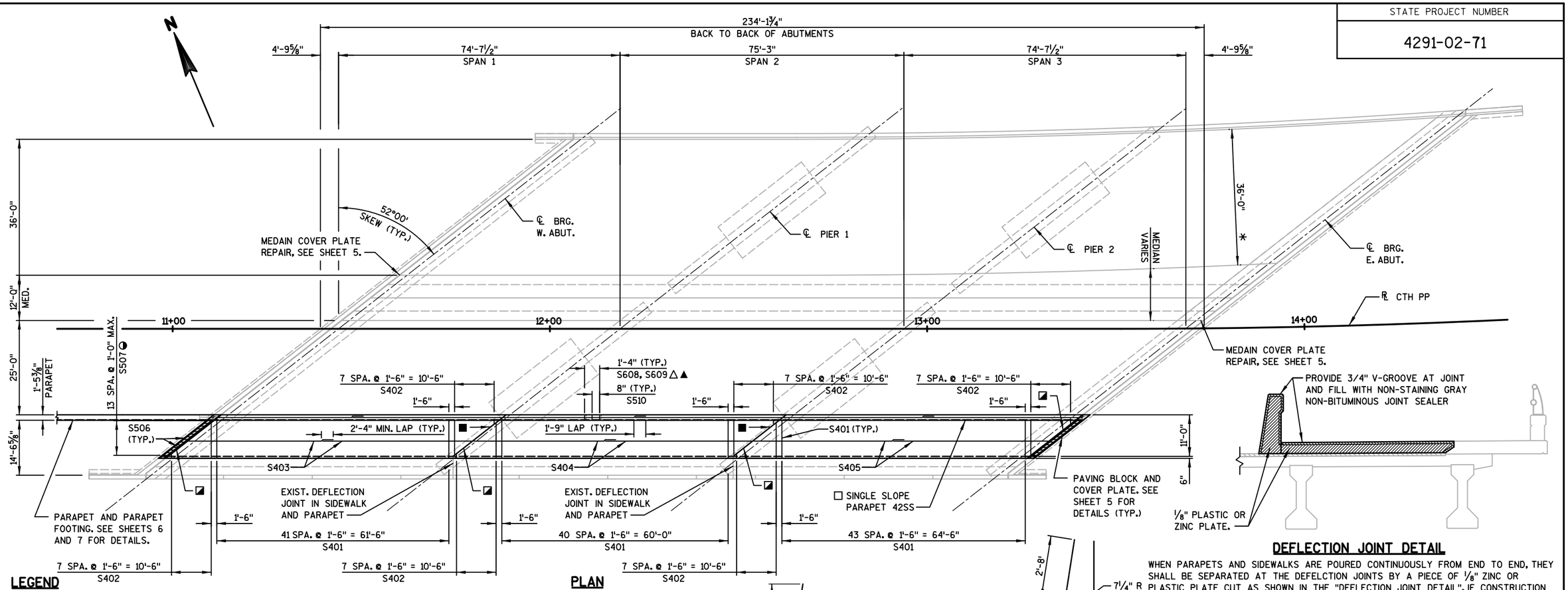
8

8

FILE NAME : S:\MIL\3700--3799\3774\007\Drawings\CAD\Microstation\Plan\080103_st.dgn

STATE PROJECT NUMBER

4291-02-71



PLAN

DEFLECTION JOINT DETAIL

WHEN PARAPETS AND SIDEWALKS ARE POURED CONTINUOUSLY FROM END TO END, THEY SHALL BE SEPARATED AT THE DEFELCTION JOINTS BY A PIECE OF ⅛" ZINC OR PLASTIC PLATE CUT AS SHOWN IN THE "DEFLECTION JOINT DETAIL". IF CONSTRUCTION JOINTS ARE USED AT THE DEFLECTION JOINTS, ONE SIDE OF JOINT SHALL BE COATED WITH AN APPROVED LIQUID BOND BREAKER AND PLATE SEPARATORS MAY BE OMITTED.

LEGEND

■ DEFLECTION JOINT IN 42SS PARAPET AND SIDEWALK. START DEFLECTION JOINT AT THE NORTH END OF THE EXISTING JOINT IN THE SIDEWALK AND RUN PARALLEL TO THE SKEW. SEE DETAIL THIS SHEET.

☐ SEE SHEET 7 FOR REINFORCING DETAILS.

● WHERE SIDEWALK MEETS BACK OF PARAPET, PROVIDE ½" WIDE BY ¾" DEEP NOTCH THE ENTIRE LENGTH OF SIDEWALK AND FILL WITH HOT POURED JOINT SEALANT MEETING THE REQUIREMENTS OF ASTM D6690. FINISH ¼" BELOW TOP OF SIDEWALK SURFACE. SEALANT INCIDENTAL TO "CONCRETE MASONRY BRIDGES" BID ITEM.

○ CLEAN ALL LOOSE MATERIAL ON THE DECK AT THE SIDEWALK AND PARAPET LOCATION PRIOR TO CONCRETE PLACEMENT USING HIGH PRESSURE WATER OR AIR, ENSURING ALL FREE-STANDING WATER IS REMOVED PRIOR TO CONCRETE PLACEMENT. NEAT CEMENT IS REQUIRED AS PER 509.3.9.2 OF THE STANDARD SPECIFICATIONS.

▲ ADHESIVE ANCHOR BAR.

✳ MEASURED RADIALLY.

△ S608 AND S609 SHALL BE INSTALLED AT 8" O.C. AT FIRST 4'-0" OF PARAPET LENGTH ADJACENT TO EXPANSION JOINTS AT ABUTMENTS AND EACH SIDE OF DEFLECTION JOINTS AT PIERS. SEE SHEET 7 FOR ADDITIONAL DETAILS.

◑ BARS PLACED PARALLEL TO ℄ GIRDERS, SPACING PERPENDICULAR TO ℄ GIRDERS.

◪ PLACE S415 TRANSVERSE BAR PARALLEL TO JOINT IN SIDEWALK.

SUPERSTRUCTURE BILL OF BARS

COATED: 8.410 LBS

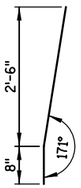
	BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
	S401	127	9'-10"		X	SIDEWALK - TRANSVERSE
‡	S402	48	4'-11"		X	SIDEWALK - TRANSVERSE
	S403	16	40'-0"		X	SIDEWALK - LONGIT. - SPAN 1
	S404	16	39'-0"		X	SIDEWALK - LONGIT. - SPAN 2
	S405	16	40'-2"		X	SIDEWALK - LONGIT. - SPAN 3
	S506	4	15'-11"		X	SIDEWALK - PAVING BLOCK - TRANSVERSE
▲	S507	56	1'-10"	X	X	SIDEWALK - PAVING BLOCK - DOWEL
▲	S608	209	1'-6"		X	PARAPET - VERT. - DOWEL
▲	S609	209	3'-2"	X	X	PARAPET - VERT. - DOWEL
	S510	345	6'-8"	X	X	PARAPET - VERT.
	S511	16	39'-0"		X	PARAPET - HORIZ. - SPAN 1
	S512	16	38'-4"		X	PARAPET - HORIZ. - SPAN 2
	S513	16	40'-6"		X	PARAPET - HORIZ. - SPAN 3
	S514	8	1'-3"	X	X	PARAPET - HORIZ. - E. ABUT.
	S415	5	15'-11"		X	SIDEWALK - TRANSVERSE - AT JOINTS
	S516	10	7'-5"	X	X	PARAPET - VERT. - PARALLEL TO JOINTS

‡ LENGTH SHOWN FOR BAR IS AN AVERAGE AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

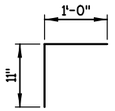
BAR SERIES TABLE

MARK	NO. REQ'D	LENGTH
S402	6 SERIES OF 8	10" TO 9'-0"

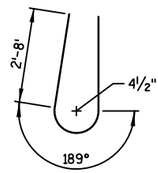
BUNDLE AND TAG EACH SERIES SEPARATELY.



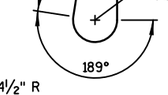
S609



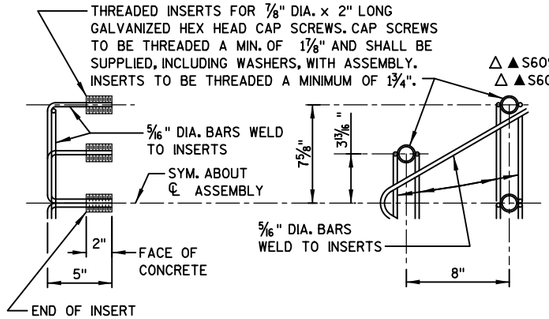
S507



S510



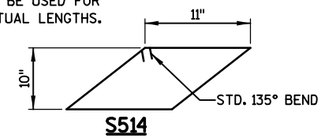
S516



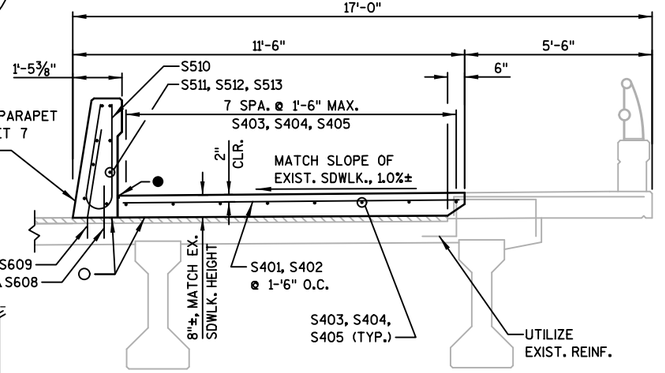
DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY BID ITEM SHALL BE "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.



S514



CROSS SECTION THRU MULTI-USE PATH

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-59-48

DRAWN BY DTH | PLANS CK'D. KRB

SUPERSTRUCTURE PLAN & DETAILS

SHEET 4
425

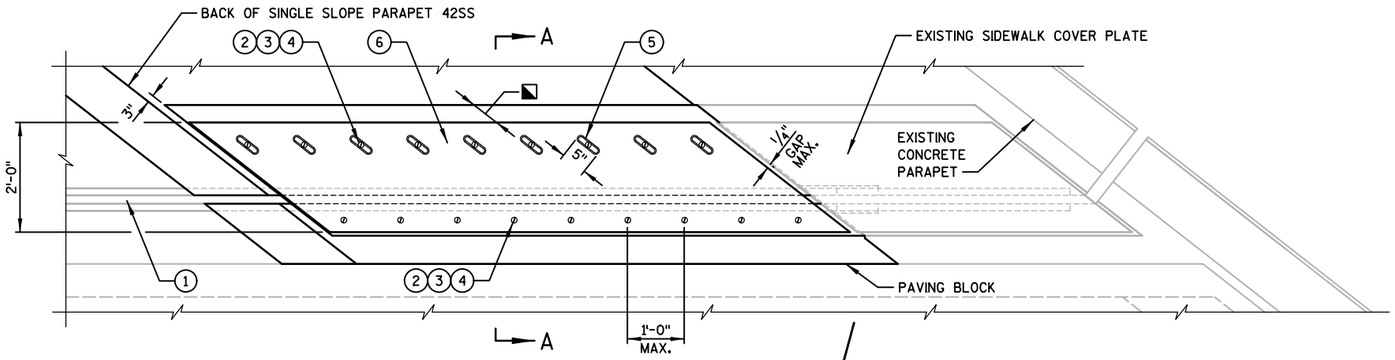
8

8

FILE NAME : S:\MIL\3700--3799\3774\007\Drawings\CAD\Microstation\Plan\080104_ss.dgn

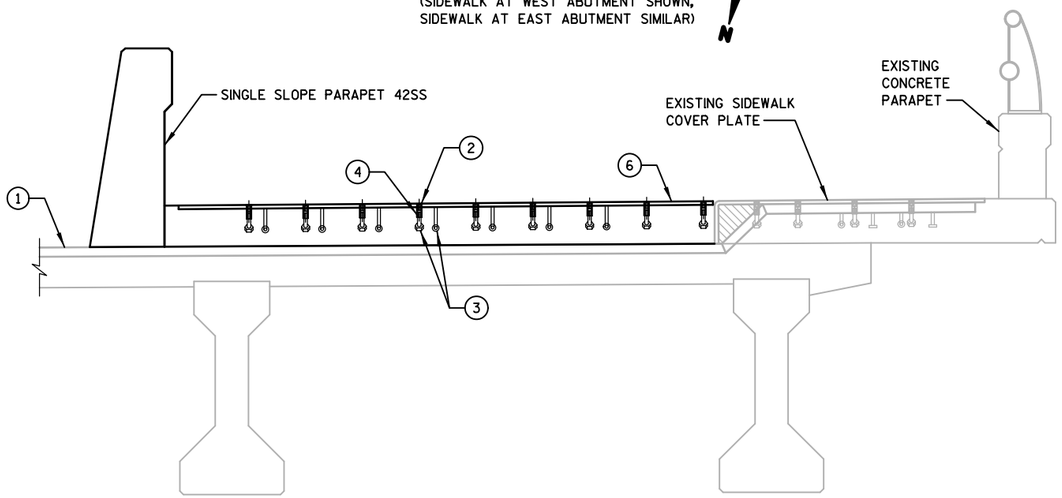
STATE PROJECT NUMBER

4291-02-71

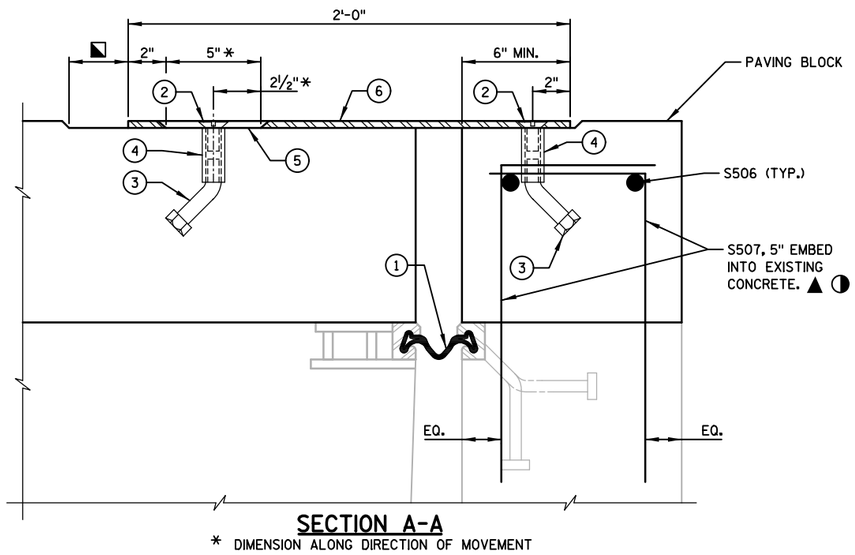


PLAN AT SIDEWALK

(SIDEWALK AT WEST ABUTMENT SHOWN, SIDEWALK AT EAST ABUTMENT SIMILAR)



SECTION AT SIDEWALK



* DIMENSION ALONG DIRECTION OF MOVEMENT

SECTION A-A

NOTES

SANDBLAST PLATES AND SUPPORTS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES AND SUPPORTS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE IS APPLIED TO SIDEWALK COVER PLATES BY THE MANUFACTURER AND THEN HOT DIPPED GALVANIZED TO THEIR RECOMMENDATIONS TO MAINTAIN THE INTEGRITY OF THIS SURFACE.

ANCHOR SYSTEM NO. 3 AND NO. 4 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

ALL MATERIAL IN THE COVER PLATE ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID AT THE UNIT PRICE BID FOR "SIDEWALK COVER PLATE".

LEGEND

(1) REPLACE NEOPRENE STRIP SEAL UNDER BID ITEM "STRIP SEAL GLAND REPLACEMENT".

(2) 3/4" DIA. x 1 1/2" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.

(3) 3/4" DIA. x 4" GALVANIZED HEX HEAD BOLT. BEND 45°.

(4) 3/4" DIA. x 2 1/4" GALVANIZED THREADED COUPLING.

(5) 1"x5" SLOTTED COUNTERSUNK HOLE FOR NO. 2. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

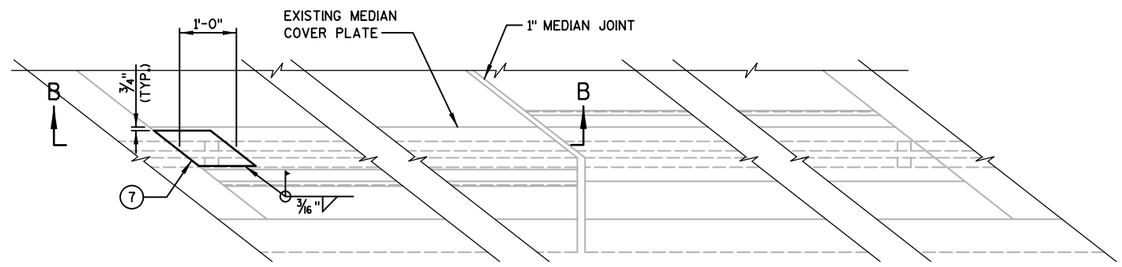
(6) SIDEWALK COVER PLATE 3/8" x LIMITS SHOWN. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.

(7) CARBON STEEL MEDIAN REPAIR COVER PLATE 3/8" X LIMITS SHOWN.

◹ JOINT OPENING DIMENSION ALONG SKEW PLUS 1/2".

▲ ADHESIVE ANCHOR BAR.

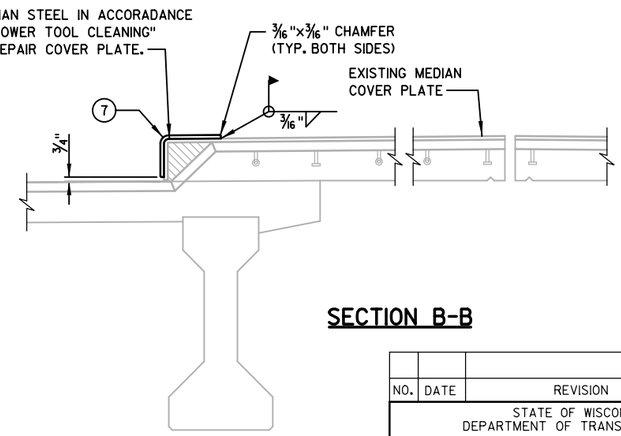
◑ BARS PLACED PARALLEL TO ℄ GIRDERS, SPACING PERPENDICULAR TO ℄ GIRDERS.



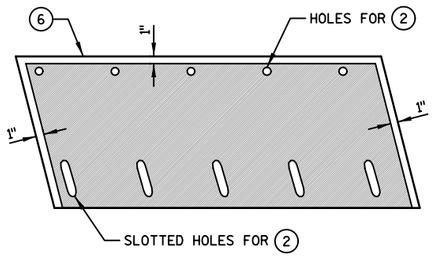
PLAN AT MEDIAN

(NORTH MEDIAN REPAIR AT WEST ABUTMENT SHOWN, SOUTH MEDIAN REPAIR AT EAST ABUTMENT SIMILAR)

CLEAN EXISTING MEDIAN STEEL IN ACCORADANCE WITH SSPC SP. #3 "POWER TOOL CLEANING" PRIOR TO WELDING REPAIR COVER PLATE.



SECTION B-B



PLAN OF SIDEWALK COVER PLATE WITH SLIP-RESISTANT SURFACE

PLACE SLIP-RESISTANT SURFACE ON TOP WALKING SURFACE IN SHADED AREA ONLY

APPROVED SLIP-RESISTANT APPLIED SURFACES FOR STEEL PLATES		
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W.S. MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-59-48

DRAWN BY DTH | PLANS CK'D. KRB

COVER PLATE AND MEDIAN REPAIR DETAILS

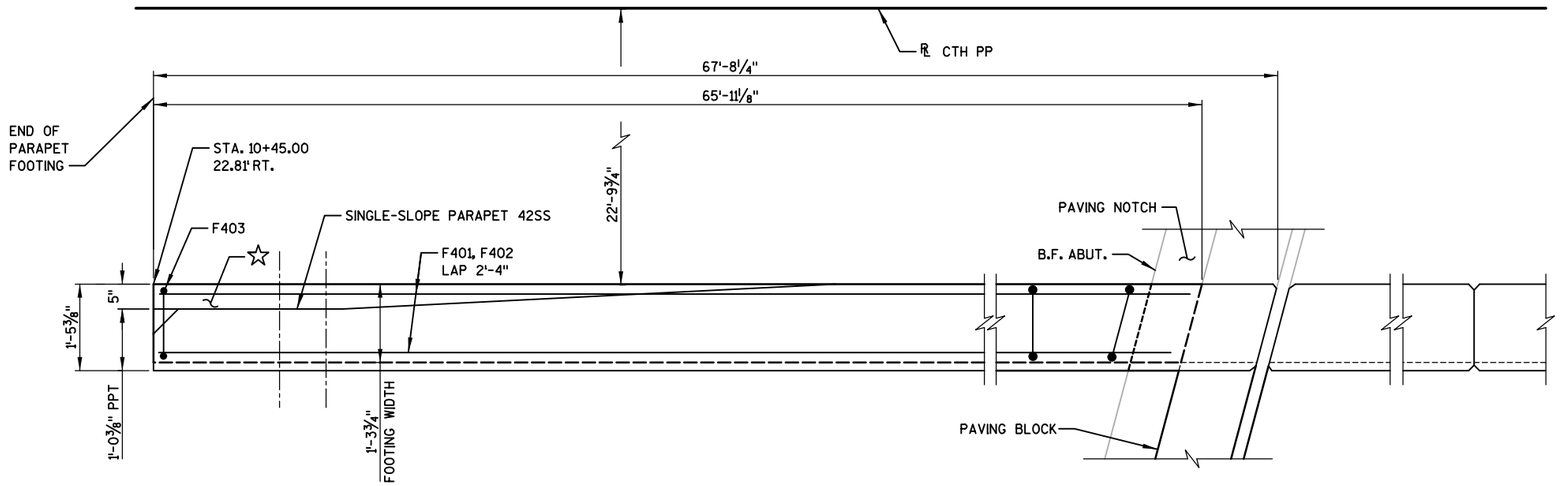
SHEET 5
426

8

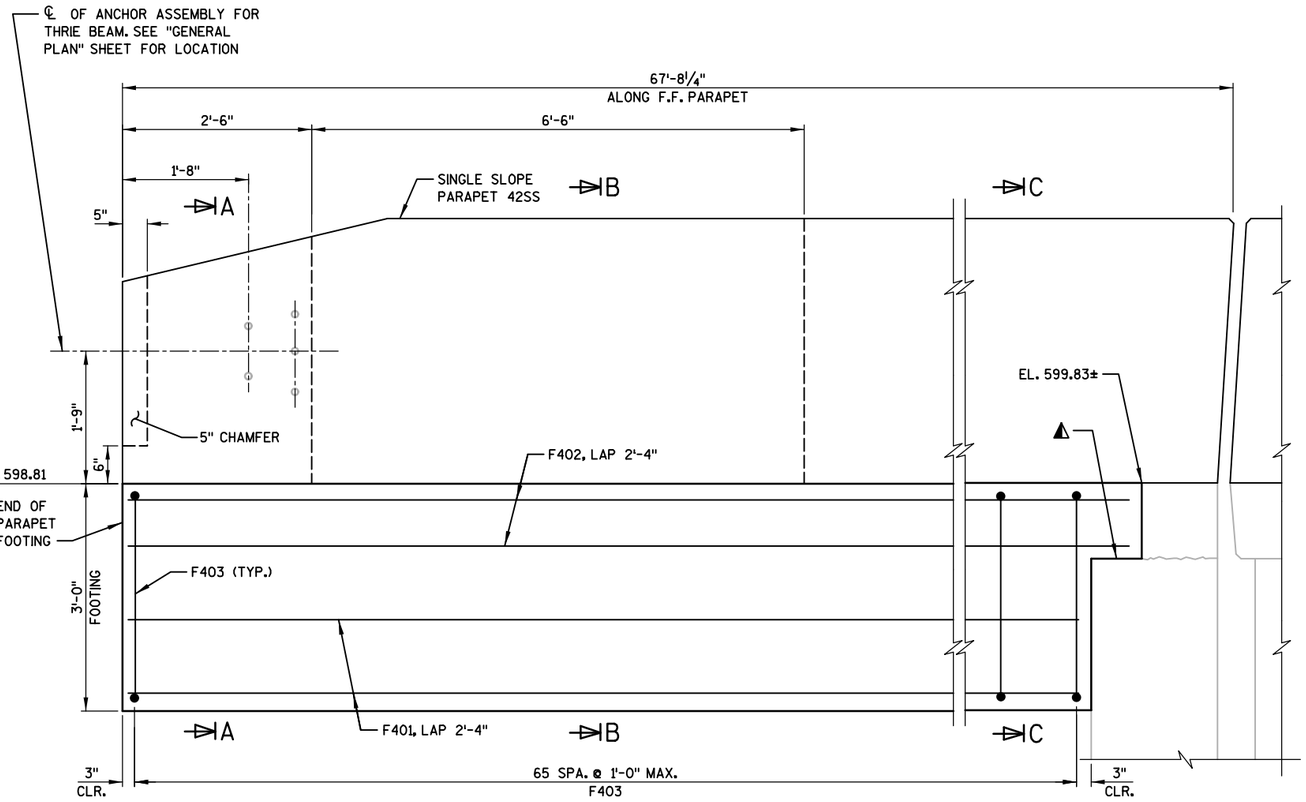
8

FILE NAME : S:\MIL\3700--3799\3774\007\Drawings\CAD\Microstation\Plan\080105_ej.dgn

STATE PROJECT NUMBER
4291-02-71



PLAN



ELEVATION
(LOOKING NORTH)

PARAPET FOOTING BILL OF BARS

COATED: 690 LBS

BAR MARK	NO. OF BARS	LENGTH	BENT	COAT	LOCATION
F401	8	33'-6"		X	FOOTING - BOTTOM - HORIZ.
F402	8	34'-0"		X	FOOTING - TOP - HORIZ.
F403	66	7'-6"	X	X	FOOTING - VERT.

NOTES

PARAPET SHOWN FOR INFORMATION ONLY. SEE PARAPET SHEETS FOR PARAPET DETAILS AND REINFORCEMENT.

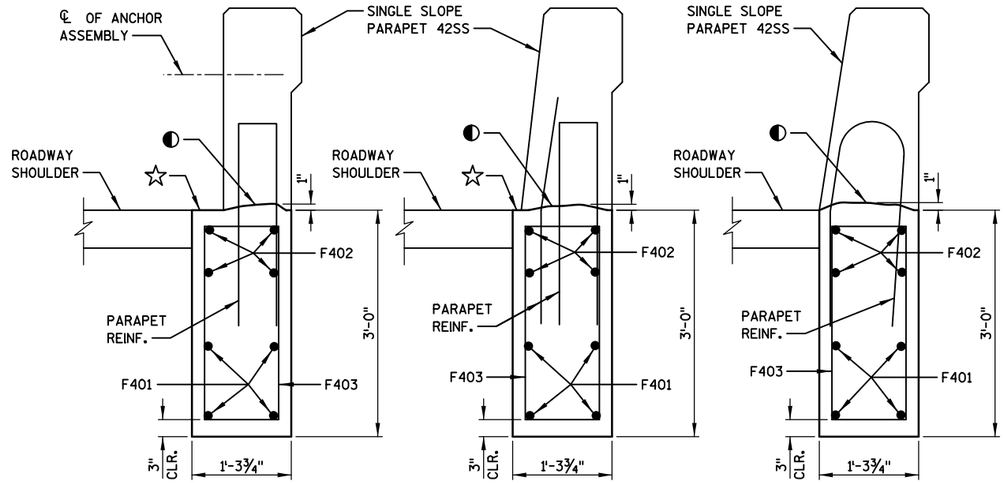
PARAPET AND PARAPET FOOTING CONCRETE AND REINFORCING QUANTITY SHOWN ON THIS SHEET ARE INCLUDED IN THE WEST ABUTMENT QUANTITY TOTALS.

LEGEND

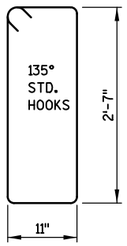
◭ PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS BETWEEN PARAPET FOOTING AND HORIZ. SURFACE OF PAVING NOTCH. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".

◐ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

☆ FINISH SURFACE NOT COVERED BY PARAPET SAME AS ROADWAY.



SECTION A-A | SECTION B-B | SECTION C-C



F403

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-59-48

DRAWN BY DTH | PLANS CK'D. KRB

PARAPET FOOTING

SHEET 6
427

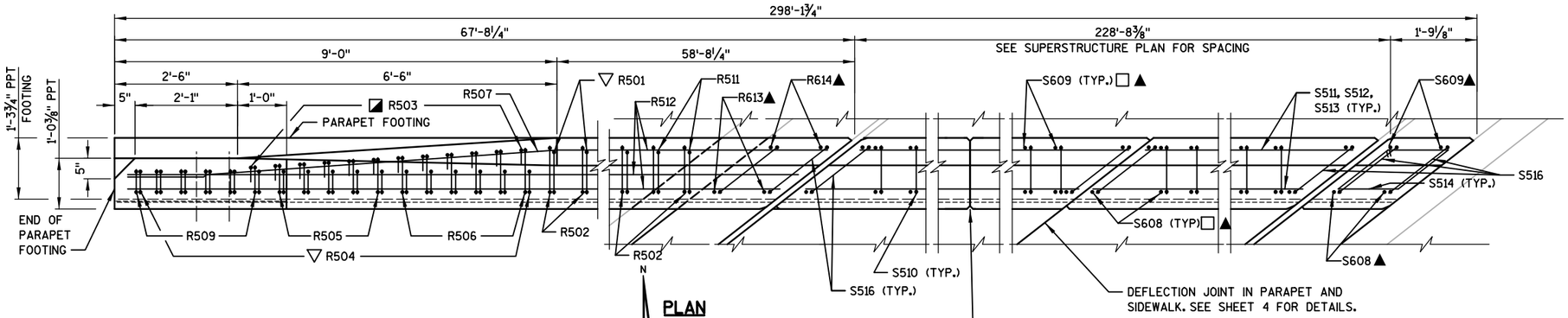
8

8

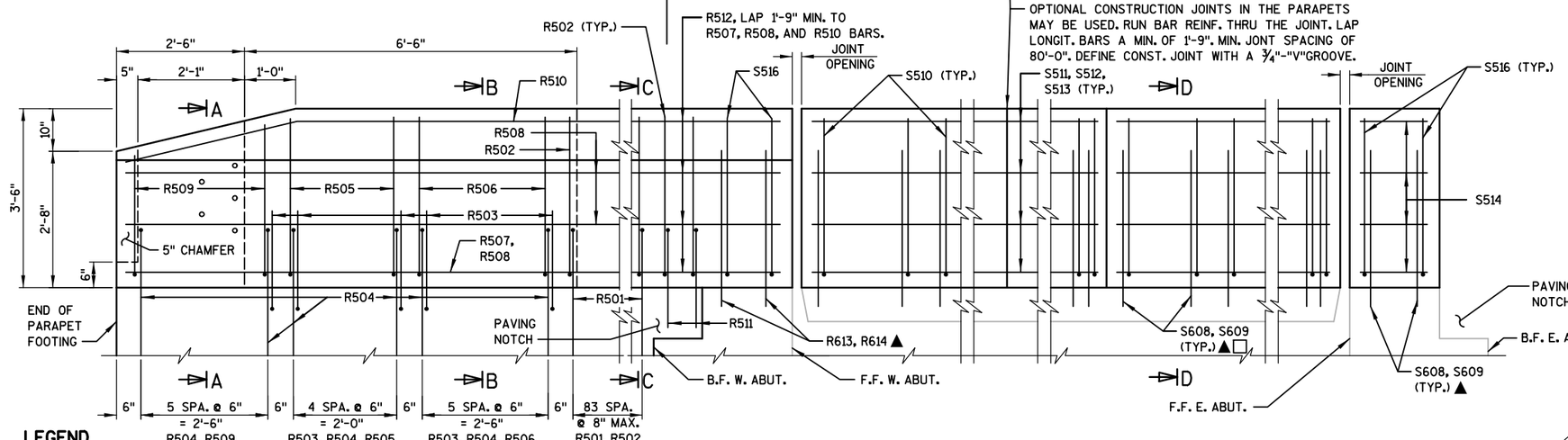
FILE NAME : S:\MIL\3700--3799\3774\007\Drawings\CAD\Microstation\Plan\080106_pf.dgn

STATE PROJECT NUMBER

4291-02-71



PLAN



OUTSIDE ELEVATION
(LOOKING NORTH)

LEGEND

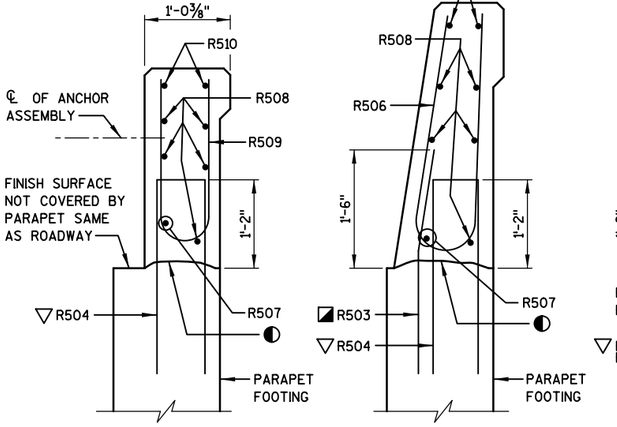
◐ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

◪ USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R501, R504, AND R511 BARS TO BE TIED TO PARAPET FOOTING STEEL BEFORE PARAPET FOOTING IS POURED.

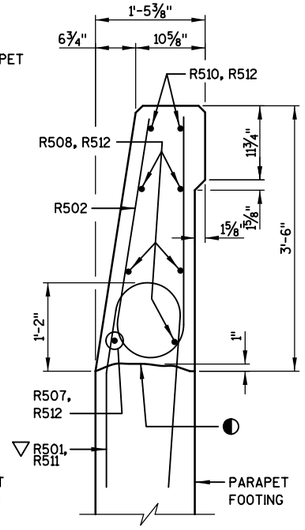
▲ ADHESIVE ANCHOR BAR.

□ S608 AND S609 BARS SHALL BE INSTALLED AT 8" O.C. AT FIRST 4'-0" OF PARAPET LENGTH ADJACENT TO EXPANSION JOINTS AT ABUTMENTS AND AT EACH SIDE OF DEFLECTION JOINTS AT PIERS.

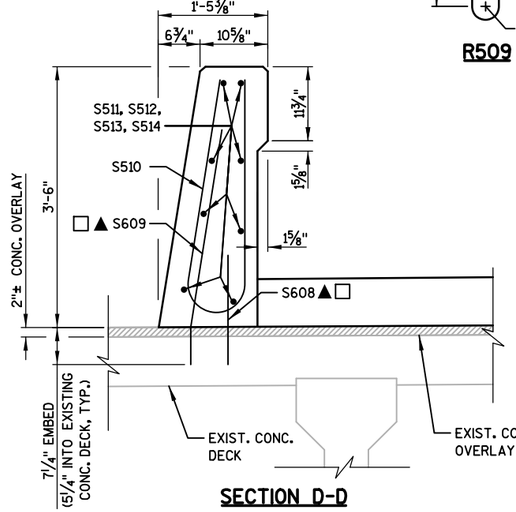


SECTION A-A

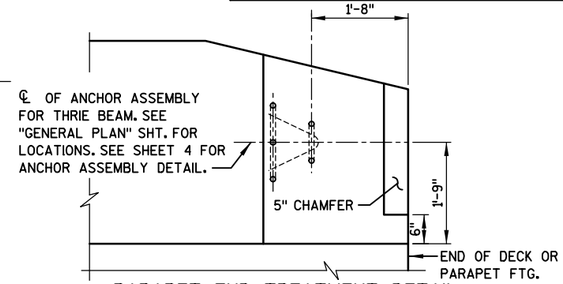
SECTION B-B



SECTION C-C



SECTION D-D



PARAPET END TREATMENT DETAIL
LOOKING AT INSIDE FACE OF PARAPET

SINGLE SLOPE PARAPET 42SS

BILL OF BARS — COATED: 1,960 LBS

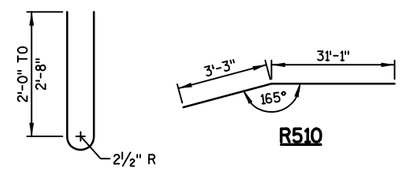
	BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
	R501	84	5'-10"	X	X	PARAPET - VERT.
	R502	88	6'-8"	X	X	PARAPET - VERT.
	R503	12	3'-0"	X	X	PARAPET - VERT.
	R504	17	5'-7"	X	X	PARAPET - VERT.
	R505	5	6'-5"	X	X	PARAPET - VERT.
	R506	6	6'-6"	X	X	PARAPET - VERT.
	R507	1	34'-4"	X	X	PARAPET - HORIZ.
	R508	5	34'-4"		X	PARAPET - HORIZ.
‡	R509	6	5'-5"	X	X	PARAPET - VERT.
	R510	2	34'-4"	X	X	PARAPET - HORIZ.
	R511	2	4'-8"	X	X	PARAPET - VERT.
	R512	8	34'-4"		X	PARAPET - HORIZ.
▲	R613	2	1'-4"		X	PARAPET - VERT.
▲	R614	2	3'-0"	X	X	PARAPET - VERT.

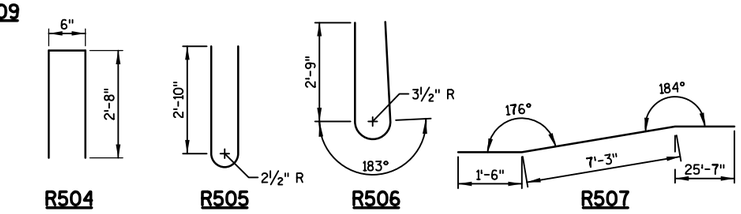
‡ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

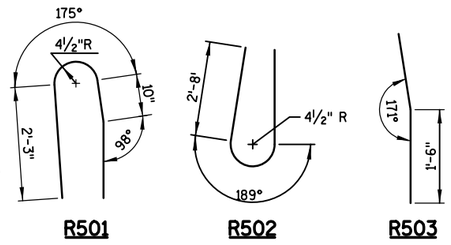
BAR SERIES TABLE

MARK	NO. REQ'D	LENGTH
R509	1 SERIES OF 6	4'-9" TO 6'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY.







NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-59-48

DRAWN BY DTH | PLANS CK'D. KRB

SINGLE SLOPE PARAPET 42SS

SHEET 7
428

8

8

FILE NAME : S:\MIL\3700--3799\3774\007\Drawings\CAD\Microstation\Plan\080107_sp.dgn

CTH PP / INDIANA AVENUE

			EXCAVATION				EMBANKMENT				
CATEGORY	REFERENCE LINE STATION	DISTANCE (FT)	END AREA CUT (SF)	VOLUME CUT (CY)	CUMM VOLUME CUT (CY)	END AREA FILL (SF)	VOLUME FILL (CY)	FILL FACTOR	EXPANDED VOLUME FILL (CY)	CUMM VOLUME FILL (CY)	EXCESS/ (SHORTAGE) CUMM VOLUME (CY)
0010	6+16 BA, AH		1			0					
		9		0	0		0	1.3	0	0	0
	6+25		1			0					
		25		1	1		0	1.3	0	0	1
	6+50		1			0					
		41		9	11		0	1.3	0	0	10
	6+91		11			0					
		9		4	15		0	1.3	0	0	14
	7+00		12			0					
		50		23	38		2	1.3	3	3	35
	7+50		13			2					
		50		16	54		16	1.3	20	23	31
	8+00		4			15					
		50		5	60		37	1.3	49	72	(12)
	8+50		1			26					
		42		2	61		43	1.3	56	128	(67)
	8+92		1			30					
		8		0	61		8	1.3	11	139	(77)
	9+00		1			30					
		17		0	62		18	1.3	24	163	(101)
	9+17		1			27					
		25		2	64		25	1.3	32	195	(131)
	9+42		3			26					
		1		2	66		1	1.3	1	196	(130)
	9+43		111			26					
		7		27	93		6	1.3	8	204	(111)
	9+50		111			26					
		50		209	302		43	1.3	56	260	42
	10+00		115			21					
		50		216	518		32	1.3	42	302	216
	10+50		118			14					
		50		222	740		19	1.3	24	327	414
	11+00		121			6					
		50		169	909		7	1.3	9	335	574
	11+50		61			1					
	14+00		64			2					
		50		188	1,097		4	1.3	5	340	757
	14+50		140			3					
		50		257	1,355		23	1.3	30	371	984
	15+00		138			23					
		1		3	1,358		0	1.3	1	372	986
	15+01		138			22					
		25		129	1,487		27	1.3	35	406	1,080
	15+26		139			35					
		24		123	1,609		35	1.3	45	451	1,158
	15+50		133			41					
		1		3	1,612		1	1.3	1	452	1,160
	15+51		133			42					
		49		236	1,849		70	1.3	91	543	1,306
	16+00		126			35					
		50		229	2,078		57	1.3	74	617	1,461
	16+50		122			27					
		50		225	2,304		39	1.3	51	668	1,636
	17+00		122			15					
		50		233	2,536		17	1.3	22	690	1,846
	17+50		130			3					
		50		243	2,780		7	1.3	9	698	2,081
	18+00		133			4					

9

9

PROJECT NO: 4291-02-71 | HWY: LOC STR | COUNTY: SHEBOYGAN | CROSS SECTIONS: EARTHWORK | SHEET 429 | E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090101_EW.DWG
LAYOUT NAME - 090101_ew

PLOT DATE : 7/29/2021 8:27 PM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

CTH PP / INDIANA AVENUE

CATEGORY	REFERENCE LINE STATION	EXCAVATION DISTANCE (FT)	EXCAVATION END AREA CUT (SF)	EXCAVATION VOLUME CUT (CY)	EXCAVATION CUMM VOLUME CUT (CY)	EMBANKMENT END AREA FILL (SF)	EMBANKMENT VOLUME FILL (CY)	EMBANKMENT FILL FACTOR	EMBANKMENT EXPANDED VOLUME FILL (CY)	EMBANKMENT CUMM VOLUME FILL (CY)	EXCESS/ (SHORTAGE) CUMM VOLUME (CY)
0010		50		247	3,026		4	1.3	5	703	2,323
	18+50		133			0					
		50		248	3,274		0	1.3	0	703	2,571
	19+00		134			0					
		50		252	3,526		0	1.3	0	703	2,822
	19+50		137			0					
		50		256	3,782		3	1.3	3	707	3,076
	20+00		140			3					
		50		241	4,024		23	1.3	30	737	3,287
	20+50		121			22					
		50		218	4,241		174	1.3	226	963	3,278
	21+00		114			165					
		50		213	4,455		332	1.3	431	1,394	3,061
	21+50		116			193					
		50		214	4,669		381	1.3	496	1,890	2,779
	22+00		115			219					
		50		214	4,883		430	1.3	559	2,448	2,434
	22+50		116			245					
		50		209	5,092		464	1.3	604	3,052	2,040
	23+00		110			256					
		50		206	5,298		426	1.3	554	3,607	1,692
	23+50		112			204					
		50		264	5,563		189	1.3	246	3,852	1,710
	24+00		173			0					
		6		38	5,600		0	1.3	0	3,852	1,748
	24+06		176			0					
		44		213	5,813		21	1.3	27	3,879	1,934
	24+50		85			25					
		50		150	5,963		35	1.3	45	3,924	2,039
	25+00		78			13					
		25		82	6,045		8	1.3	11	3,935	2,110
	25+25		99			6					
		25		84	6,129		6	1.3	8	3,944	2,186
	25+50		82			8					
		50		152	6,281		11	1.3	15	3,958	2,323
	26+00		83			4					
		50		148	6,429		6	1.3	8	3,966	2,463
	26+50		77			2					
		50		133	6,562		4	1.3	6	3,972	2,590
	27+00		66			2					
		23		61	6,623		2	1.3	2	3,974	2,649
	27+23		75			1					
		27		69	6,692		2	1.3	2	3,977	2,715
	27+50		63			3					
		50		120	6,811		4	1.3	5	3,981	2,830
	28+00		66			1					
		23		66	6,878		1	1.3	1	3,983	2,895
	28+23		89			1					
		27		81	6,958		1	1.3	1	3,984	2,974
	28+50		72			1					
		50		138	7,097		1	1.3	1	3,985	3,111
	29+00		77			0					
		50		169	7,266		0	1.3	0	3,985	3,280
	29+50		106			0					
		50		171	7,437		0	1.3	0	3,986	3,451
	30+00		79			0					
		50		146	7,582		0	1.3	0	3,986	3,596
	30+50		79			0					
		50		146	7,728		1	1.3	1	3,987	3,741
	31+00		79			1					

9

9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: EARTHWORK	SHEET 430	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090101_EW.DWG
LAYOUT NAME - 090102_ew

PLOT DATE : 7/29/2021 8:27 PM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

CTH PP / INDIANA AVENUE

CATEGORY	REFERENCE LINE STATION	EXCAVATION DISTANCE (FT)	EXCAVATION END AREA CUT (SF)	EXCAVATION VOLUME CUT (CY)	EXCAVATION CUMM VOLUME CUT (CY)	EMBANKMENT END AREA FILL (SF)	EMBANKMENT VOLUME FILL (CY)	EMBANKMENT FILL FACTOR	EMBANKMENT EXPANDED VOLUME FILL (CY)	EMBANKMENT CUMM VOLUME FILL (CY)	EXCESS/ (SHORTAGE) CUMM VOLUME (CY)
0010		6		21	7,749		0	1.3	0	3,987	3,762
	31+06		98			0					
		44		145	7,894		0	1.3	0	3,988	3,906
	31+50		81			0					
		50		152	8,046		0	1.3	1	3,988	4,058
	32+00		84			0					
		50		157	8,203		0	1.3	1	3,989	4,214
	32+50		86			0					
		50		180	8,383		0	1.3	0	3,989	4,394
	33+00		108			0					
		50		199	8,582		0	1.3	0	3,989	4,593
	33+50		106			0					
		50		177	8,759		0	1.3	0	3,989	4,769
	34+00		85			0					
		29		102	8,861		0	1.3	0	3,989	4,872
	34+29		103			0					
		21		70	8,931		0	1.3	0	3,990	4,942
	34+50		81			1					
		50		146	9,077		1	1.3	1	3,990	5,087
	35+00		77			0					
		50		144	9,221		0	1.3	0	3,991	5,230
	35+50		79			0					
		50		150	9,371		2	1.3	2	3,993	5,378
	36+00		82			2					
		50		161	9,532		1	1.3	2	3,995	5,538
	36+50		92			0					
		11		37	9,570		0	1.3	0	3,995	5,575
	36+61		92			0					
		39		127	9,697		0	1.3	0	3,995	5,702
	37+00		83			0					
		21		67	9,764		0	1.3	0	3,995	5,769
	37+21		88			0					
		29		86	9,850		0	1.3	0	3,996	5,855
	37+50		73			0					
		23		62	9,913		0	1.3	0	3,996	5,917
	37+73		75			0					
		27		76	9,988		1	1.3	2	3,998	5,991
	38+00		74			3					
		50		136	10,125		3	1.3	3	4,001	6,123
	38+50		74			0					
		50		133	10,258		2	1.3	3	4,004	6,254
	39+00		70			2					
		50		154	10,412		2	1.3	2	4,006	6,406
	39+50		96			0					
		50		154	10,566		0	1.3	1	4,007	6,559
	40+00		70			1					
		23		61	10,627		1	1.3	1	4,008	6,619
	40+23		74			1					
		27		71	10,698		2	1.3	3	4,011	6,687
	40+50		68			4					
		50		125	10,822		7	1.3	9	4,020	6,802
	41+00		67			4					
		50		110	10,933		7	1.3	9	4,029	6,904
	41+50		52			3					
		50		97	11,030		3	1.3	4	4,033	6,997
	42+00		53			0					
		16		37	11,067		1	1.3	1	4,034	7,033
	42+16		74			2					
		34		107	11,174		2	1.3	2	4,036	7,138
	42+50		96			0					
		28		100	11,274		0	1.3	0	4,036	7,238
	42+78		99			0					
TOTAL					11,274		3,105			4,036	7,238

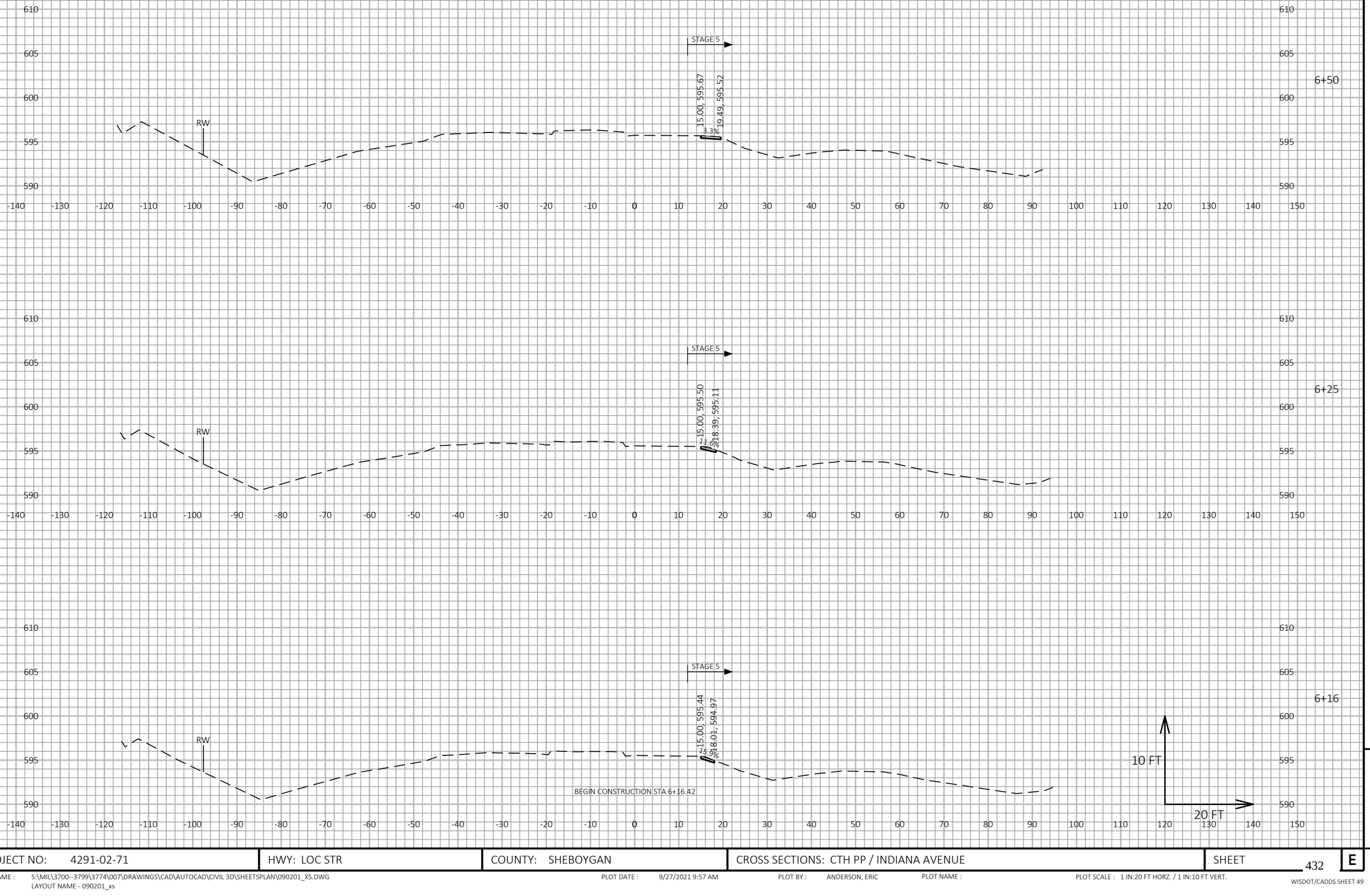
9

9

PROJECT NO: 4291-02-71 | HWY: LOC STR | COUNTY: SHEBOYGAN | CROSS SECTIONS: EARTHWORK | SHEET 431 | E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090101_EW.DWG
LAYOUT NAME - 090103_ew

PLOT DATE : 7/29/2021 8:27 PM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 432	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201_xs

PLOT DATE : 9/27/2021 9:57 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9

9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 433	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090202_xs

PLOT DATE : 9/27/2021 9:57 AM

PLOT BY : ANDERSON, ERIC

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

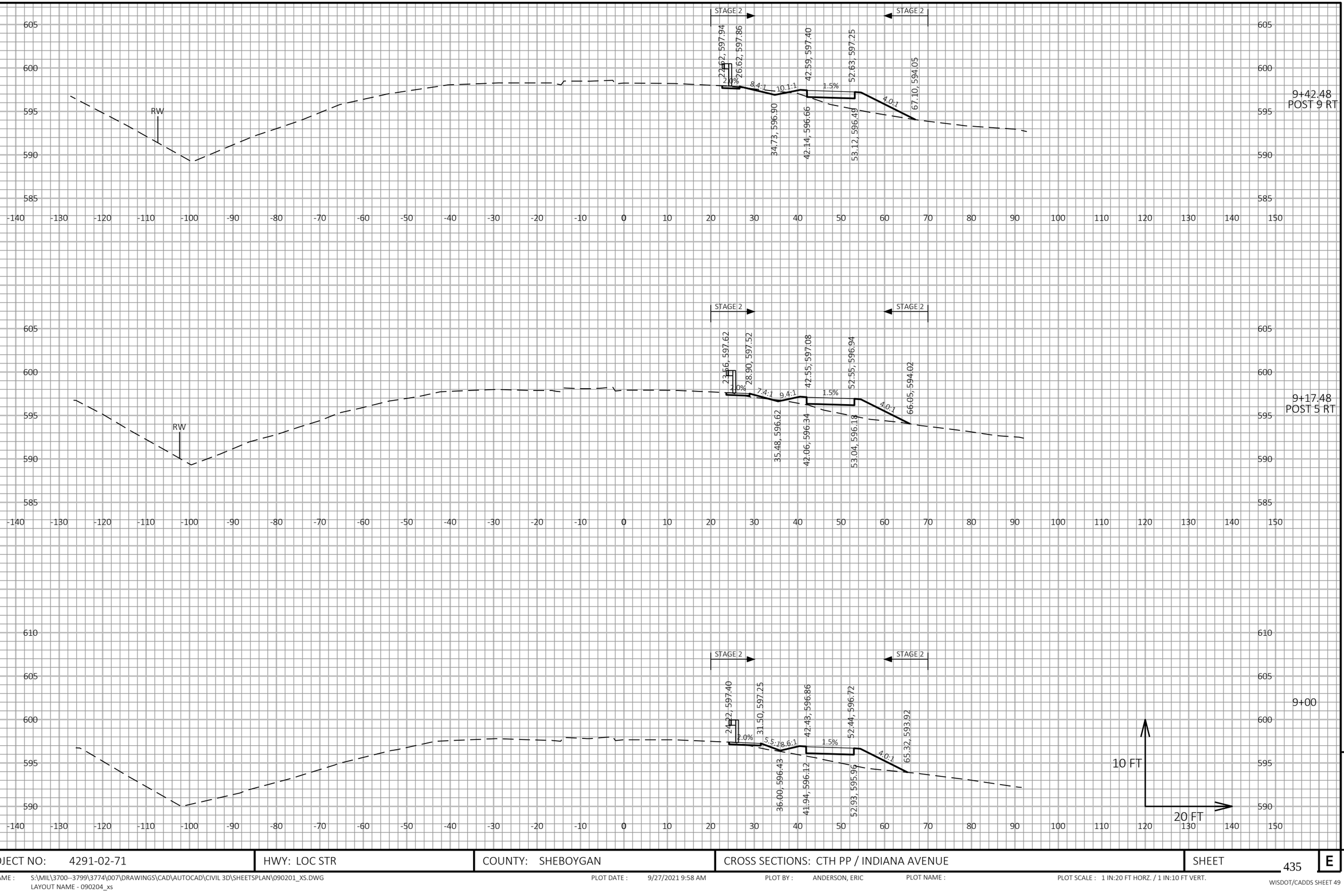
WISDOT/CADDS SHEET 49

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 434	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090203_xs

PLOT DATE : 9/27/2021 9:57 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

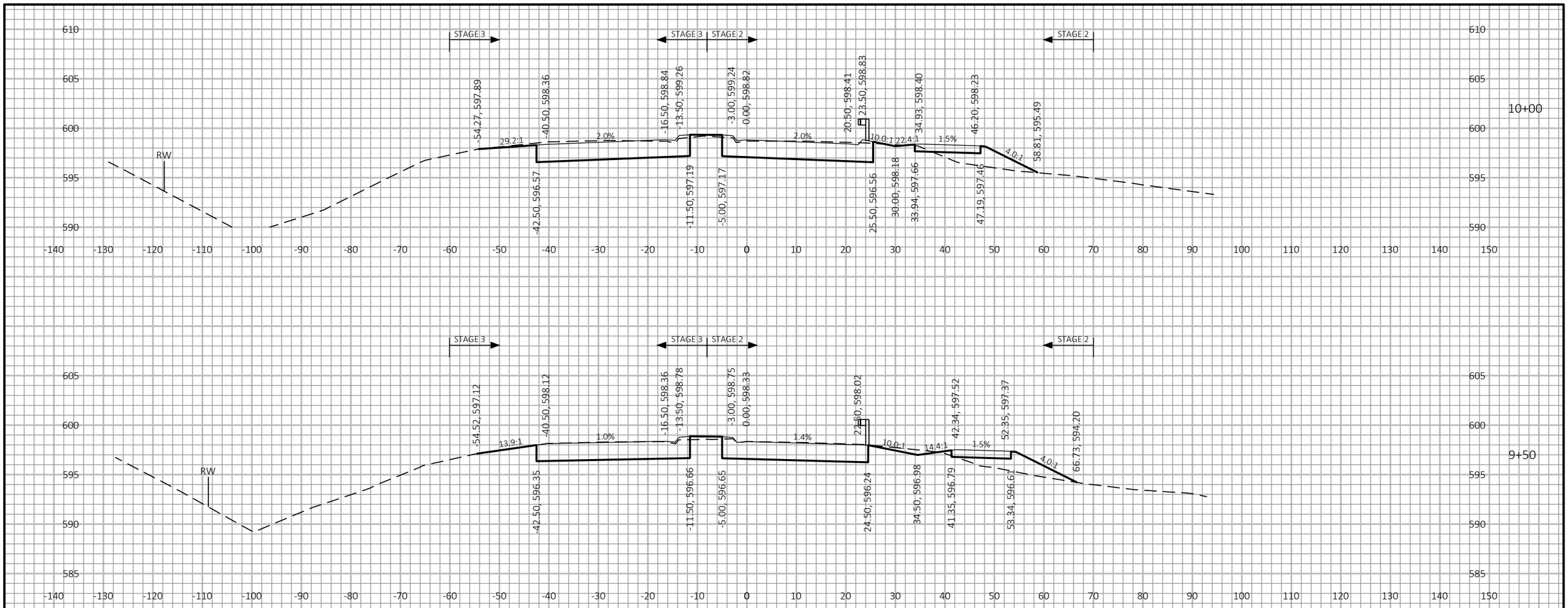
9

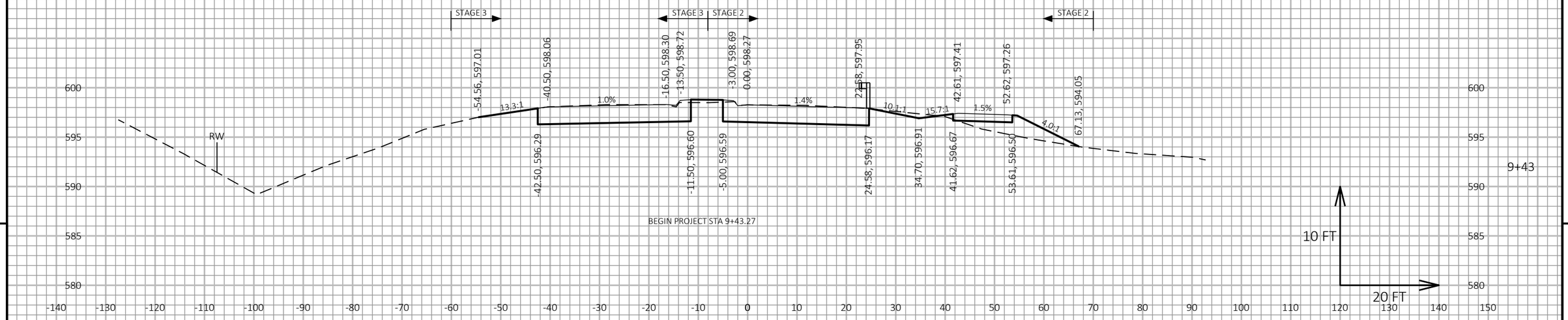
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 435	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090204_xs

PLOT DATE : 9/27/2021 9:58 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

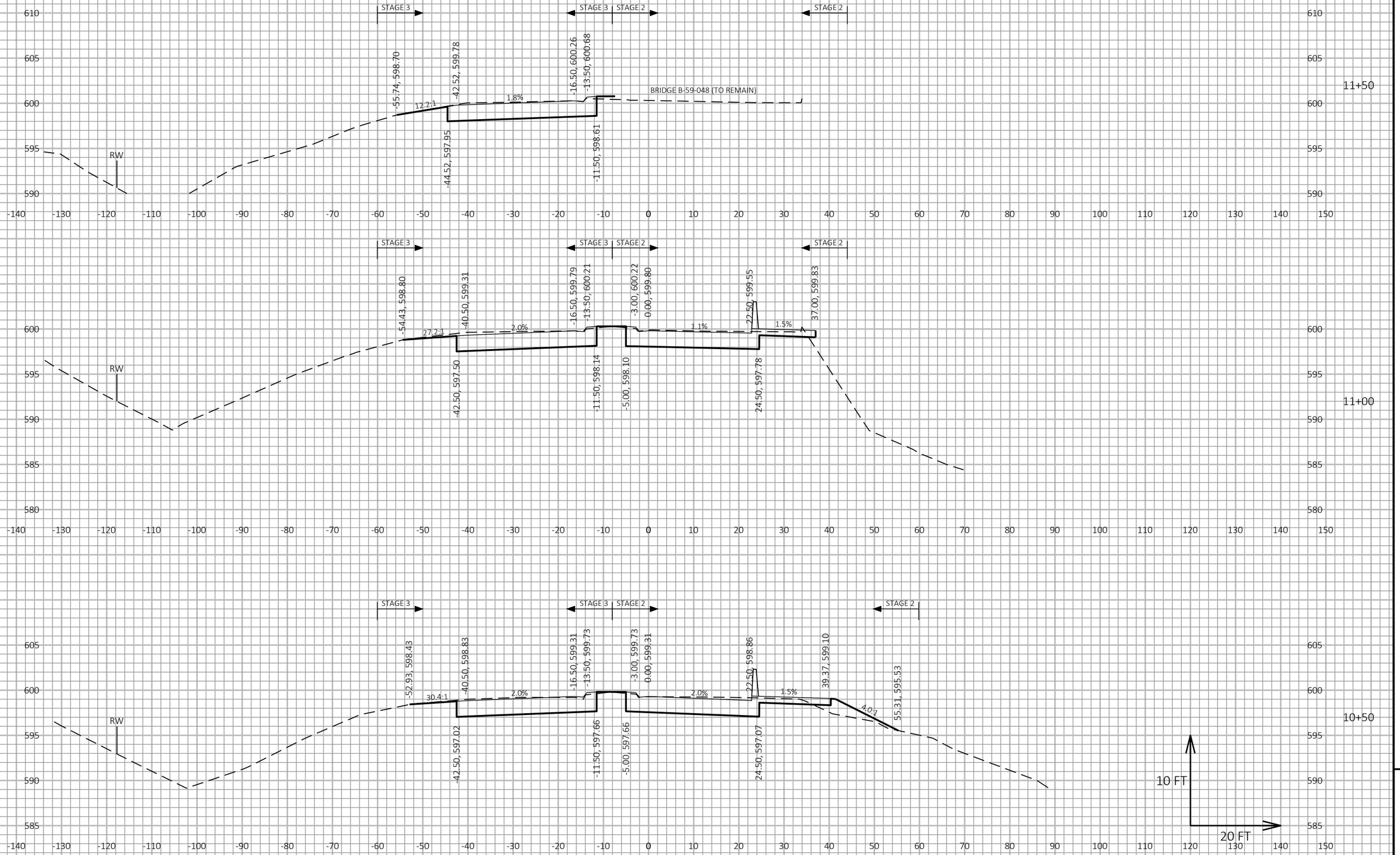
9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 436	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090205_xs

PLOT DATE : 9/27/2021 9:58 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

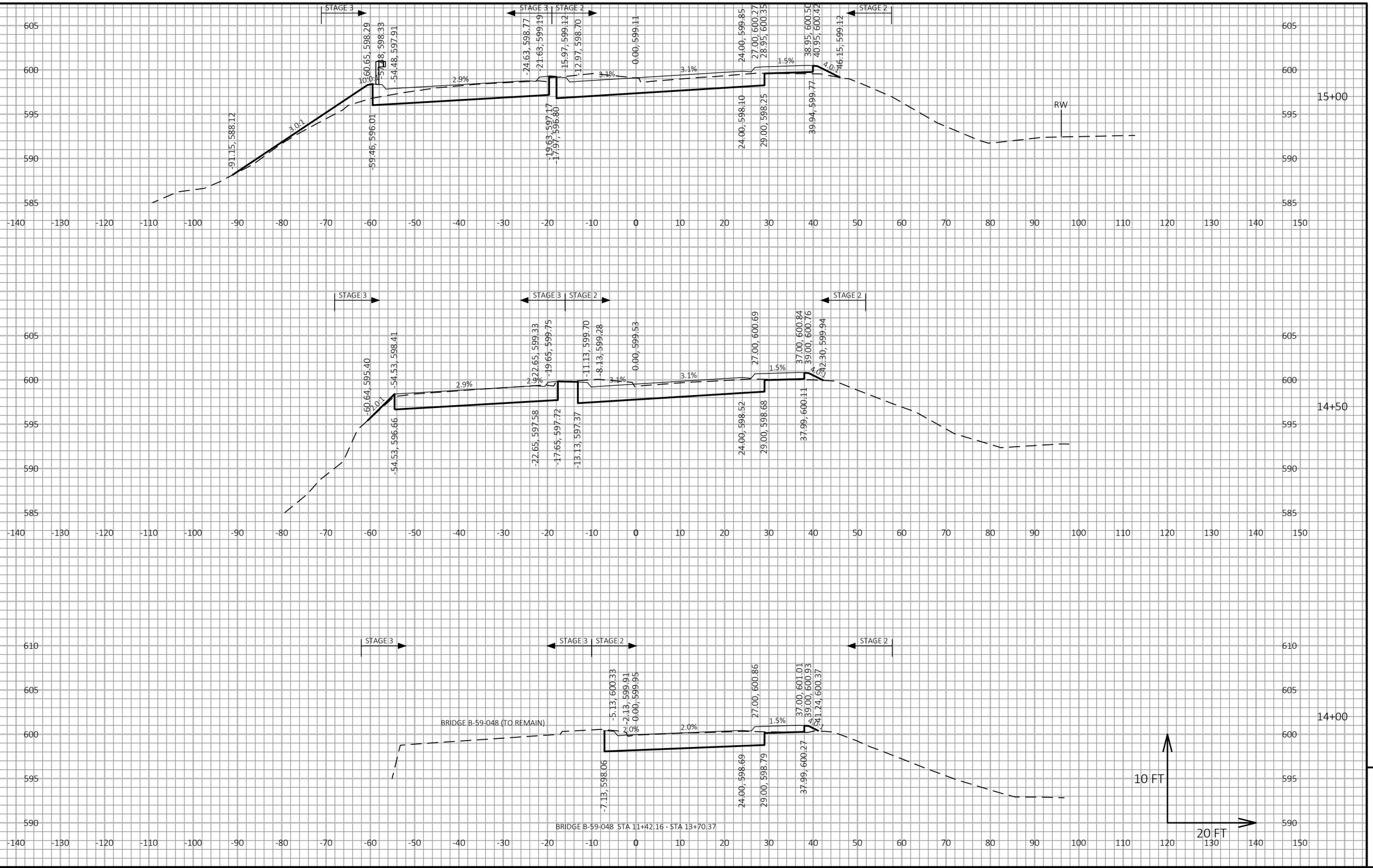
9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 437	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090206_xs

PLOT DATE : 9/27/2021 9:58 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

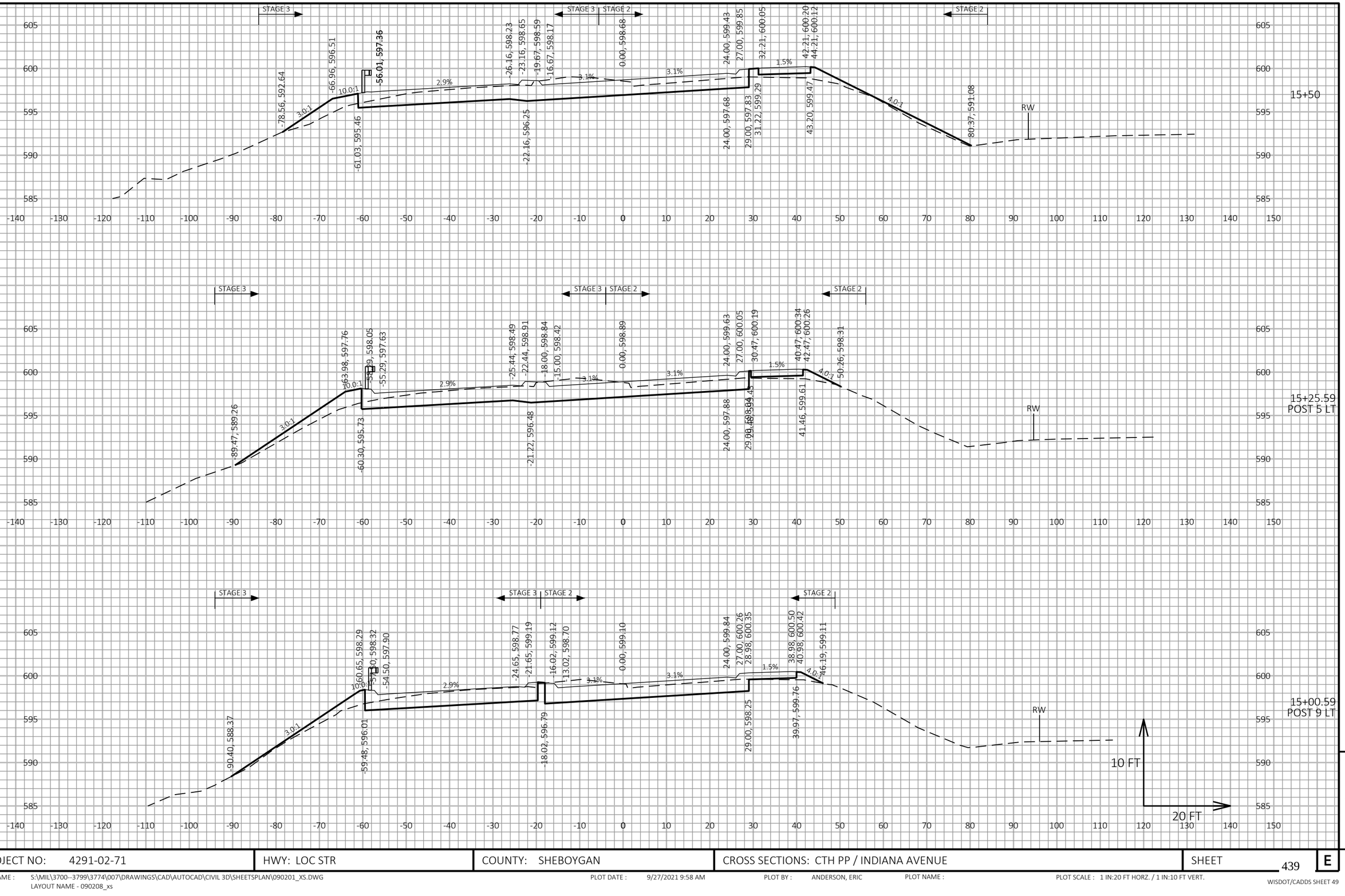


PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 438 E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090207_xs

PLOT DATE : 9/27/2021 9:58 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

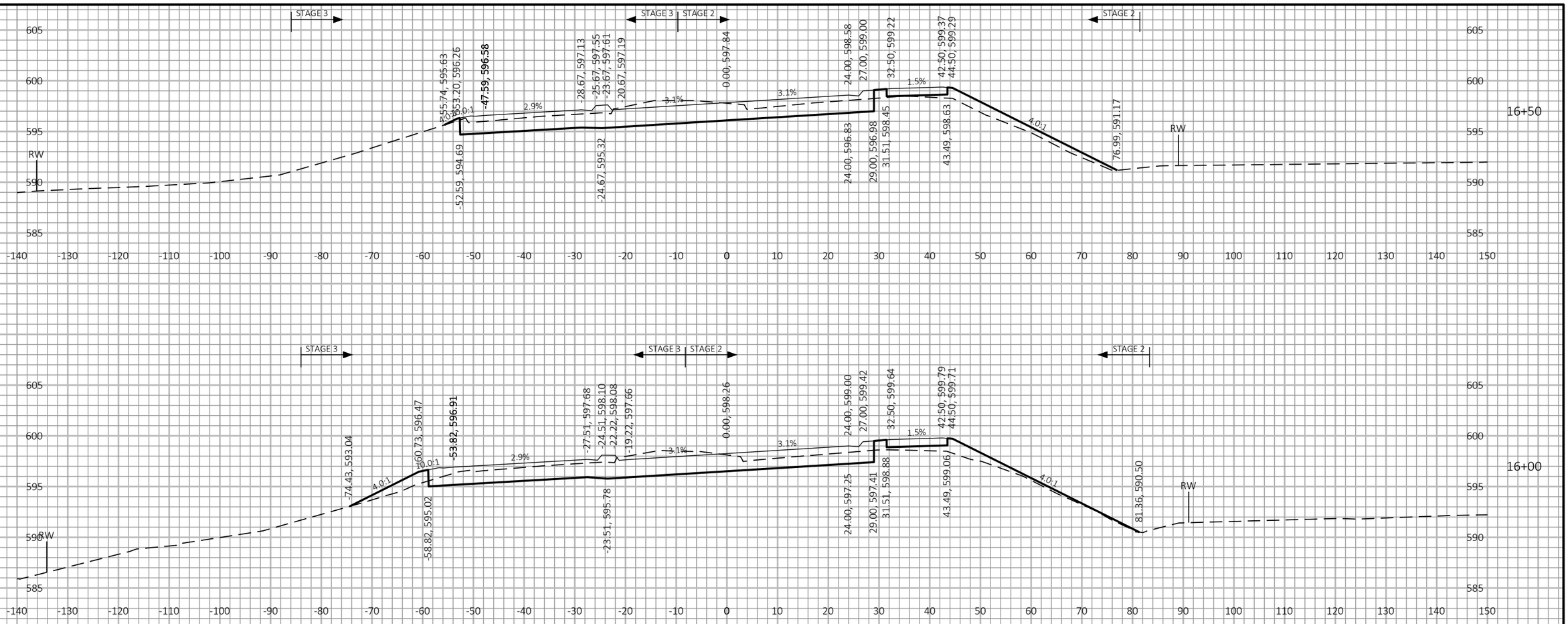
9

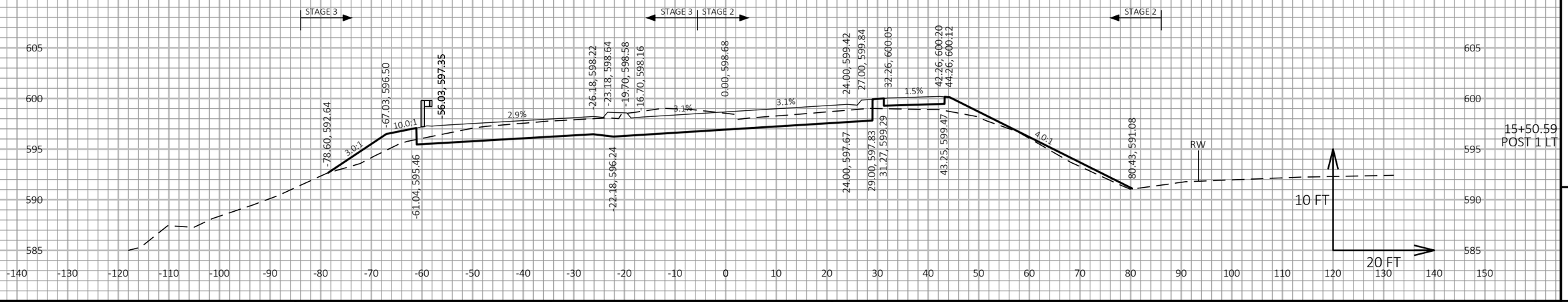
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 439	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090208_xs

PLOT DATE : 9/27/2021 9:58 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

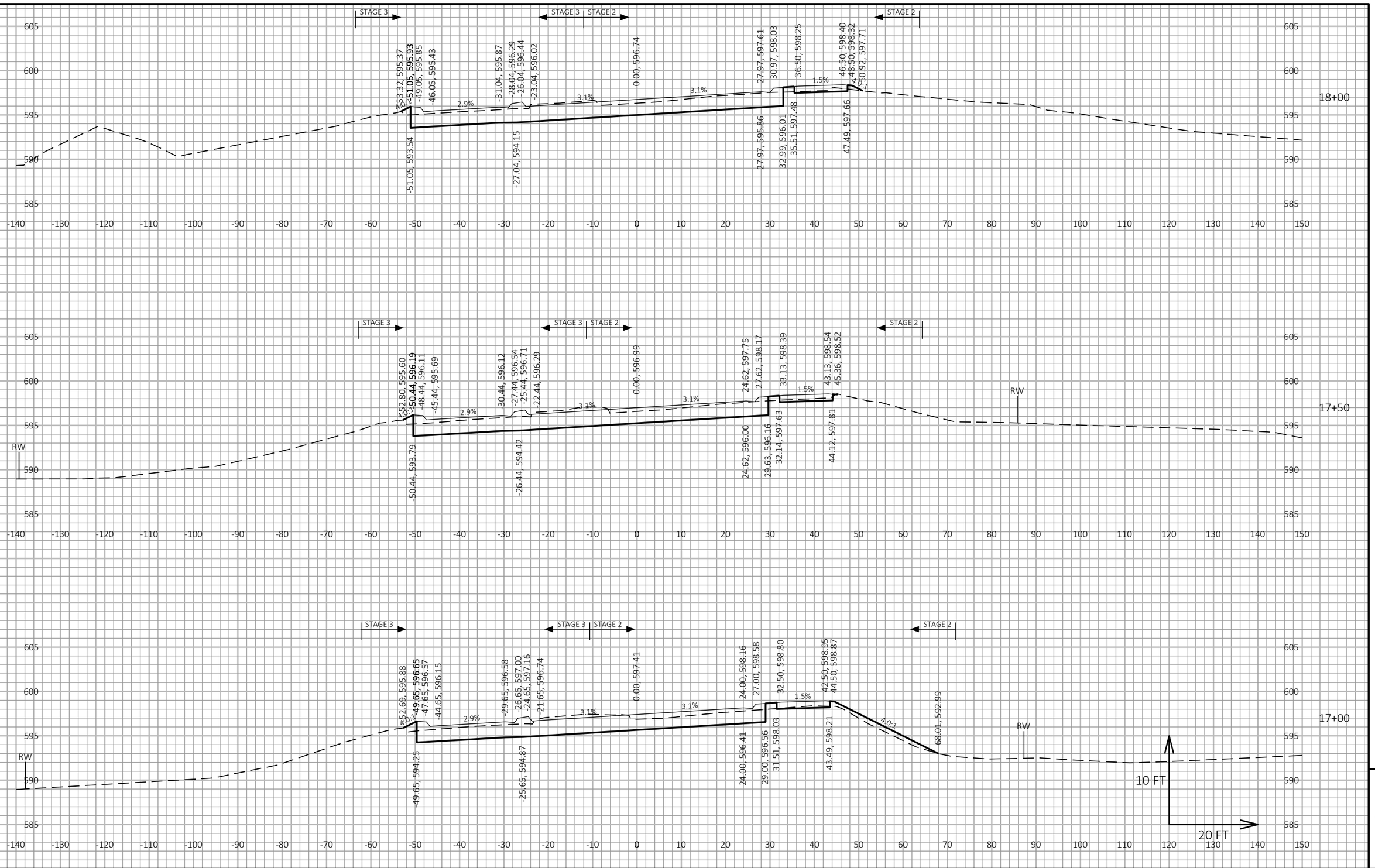
9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 440	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090209_xs

PLOT DATE : 9/27/2021 9:58 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

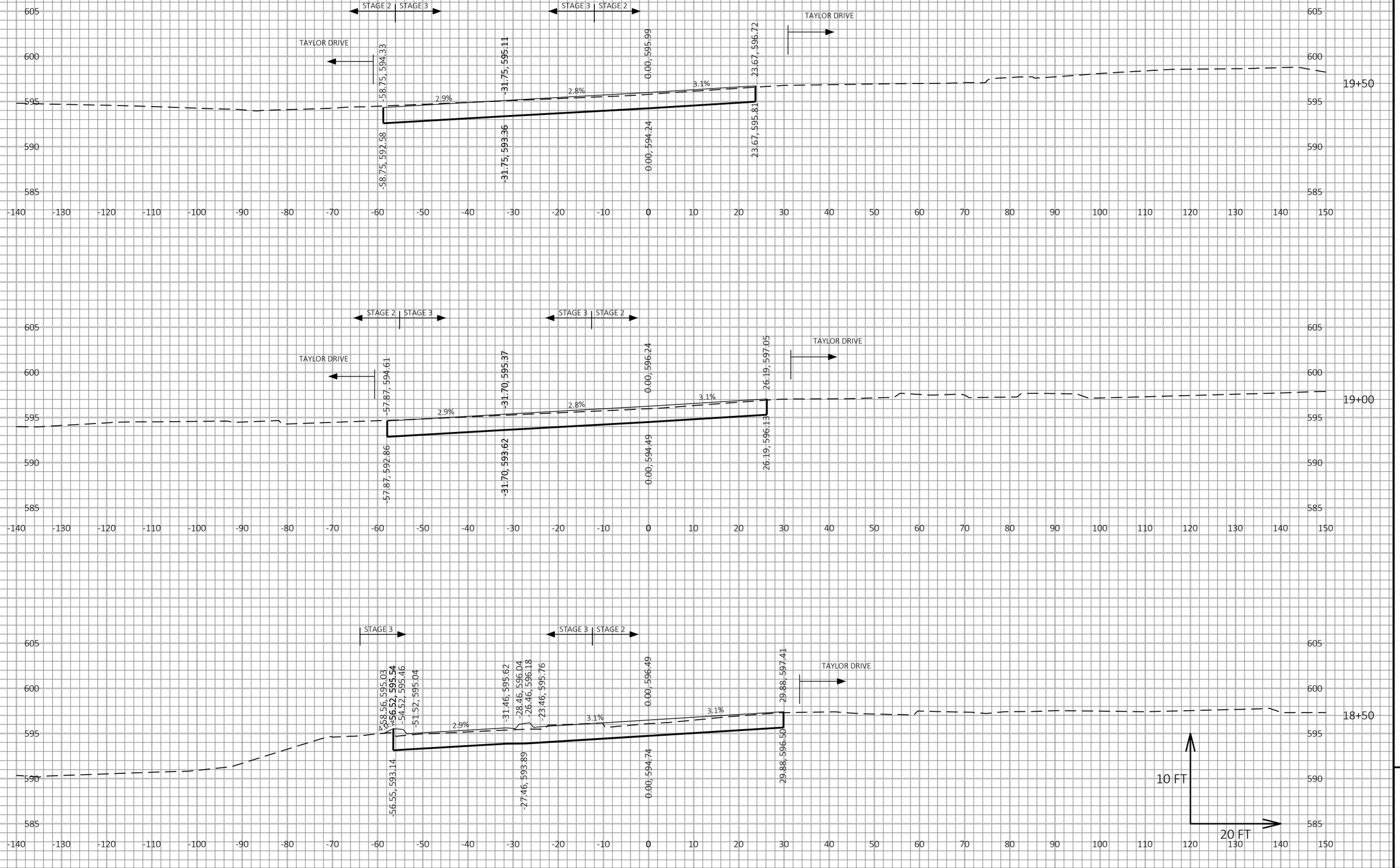


PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 441	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090210_xs

PLOT DATE : 9/27/2021 9:59 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

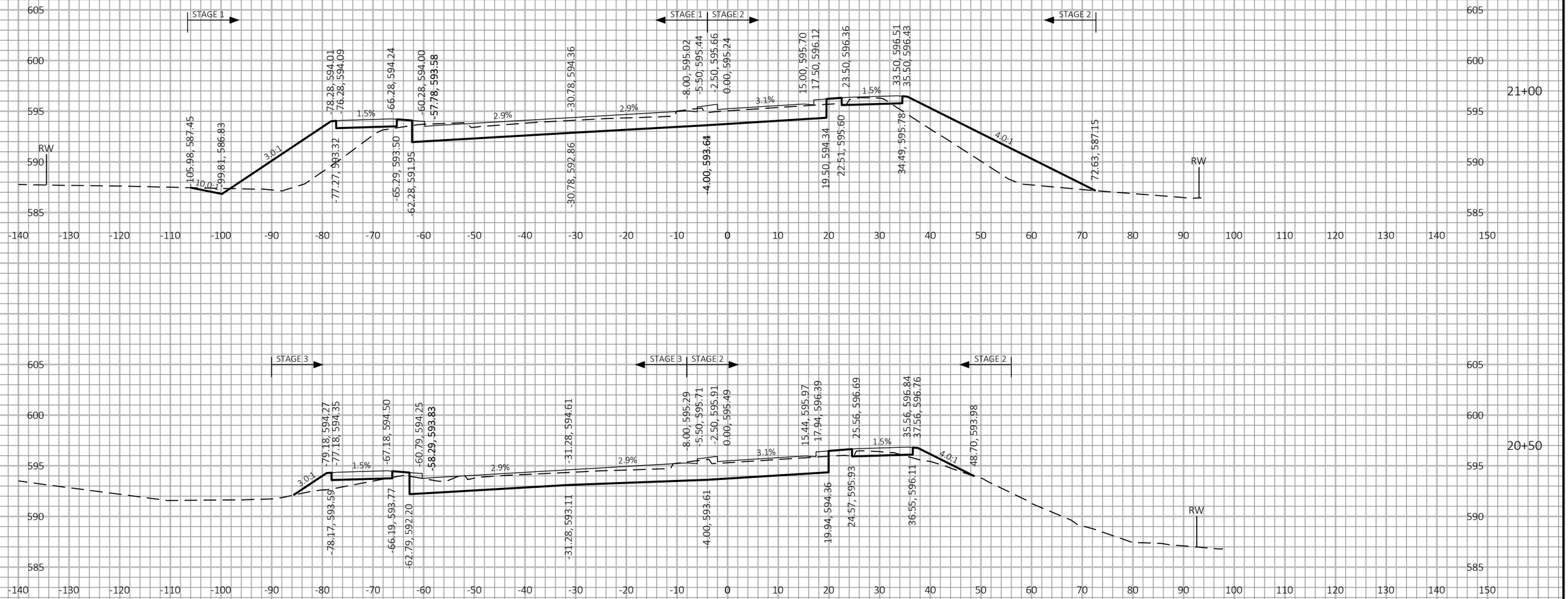
9

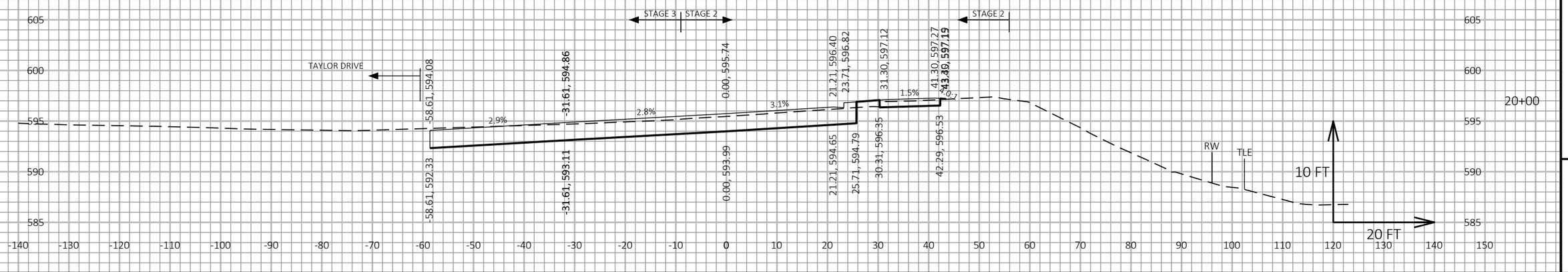
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 442	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090211_xs

PLOT DATE : 9/27/2021 9:59 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

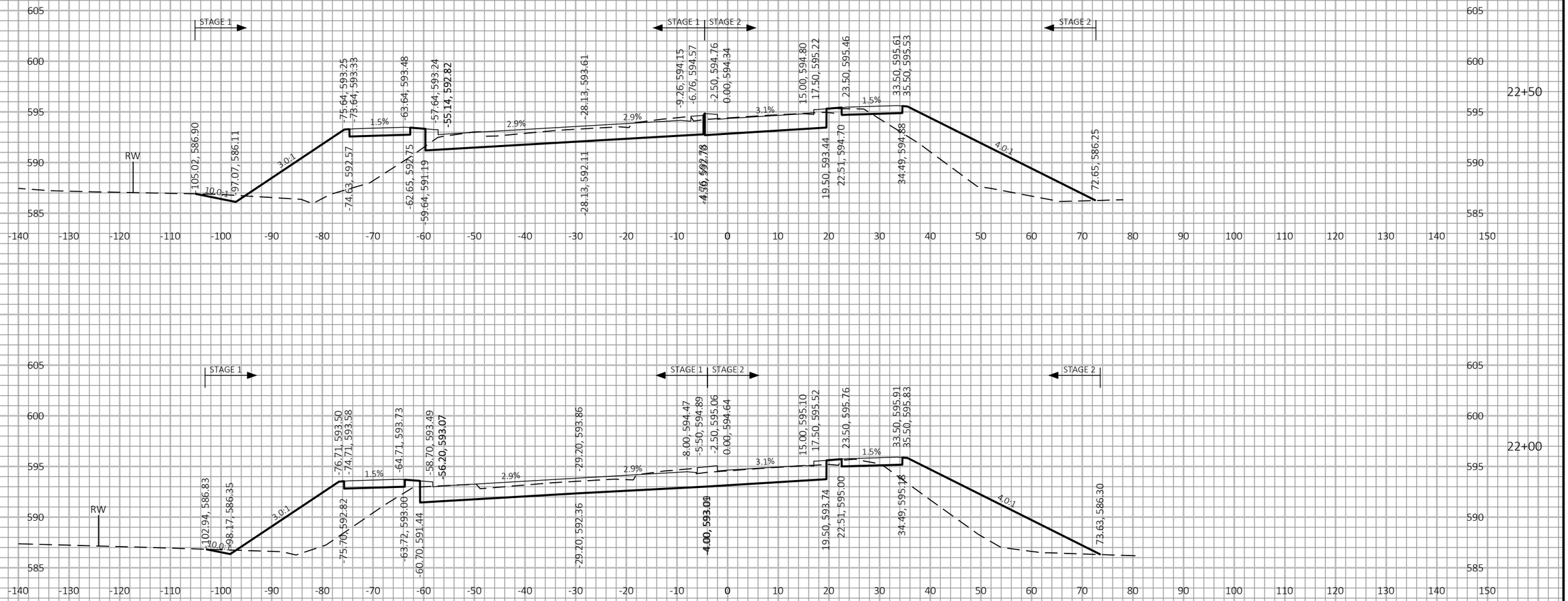
9

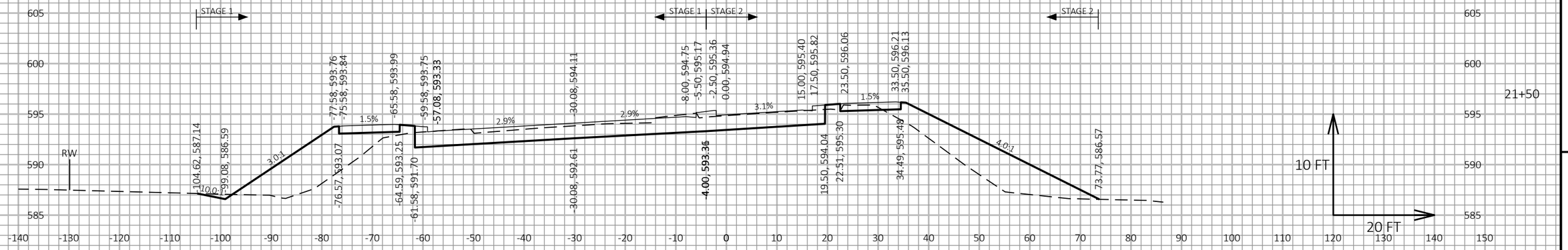
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 443	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090212_xs

PLOT DATE : 9/27/2021 9:59 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 444	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090213_xs

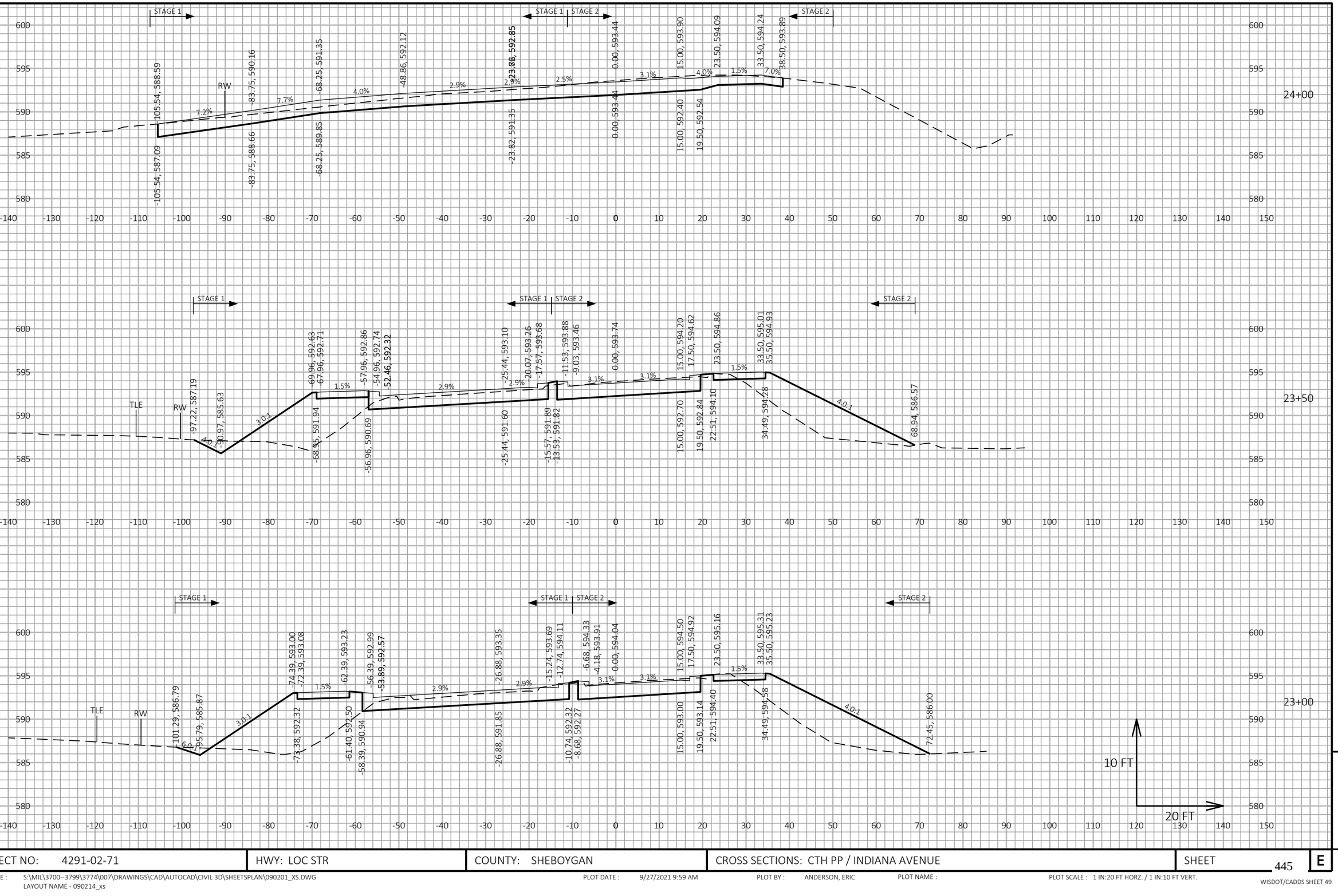
PLOT DATE : 9/27/2021 9:59 AM

PLOT BY : ANDERSON, ERIC

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

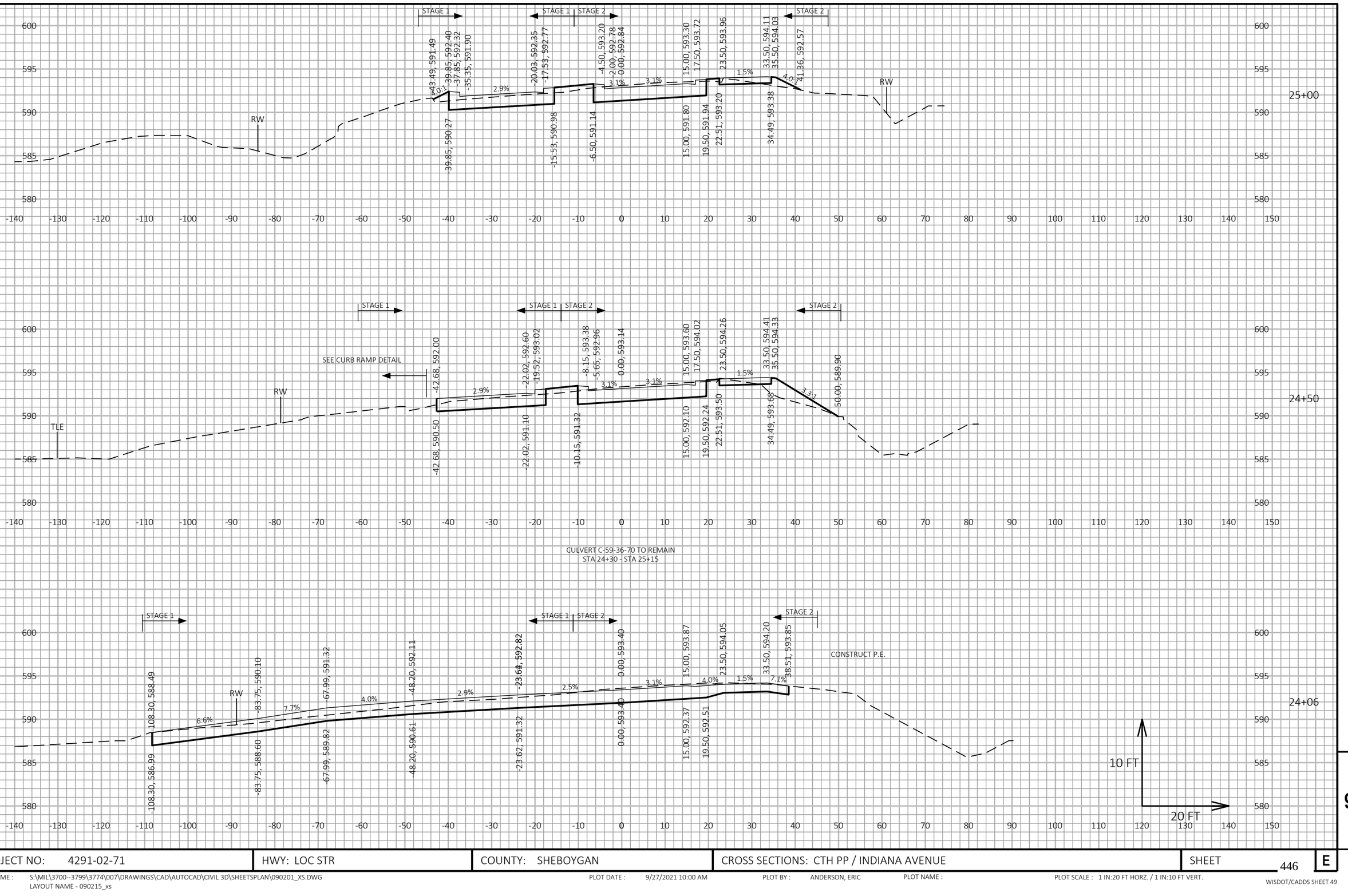


PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 445 E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090214_xs

PLOT DATE : 9/27/2021 9:59 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

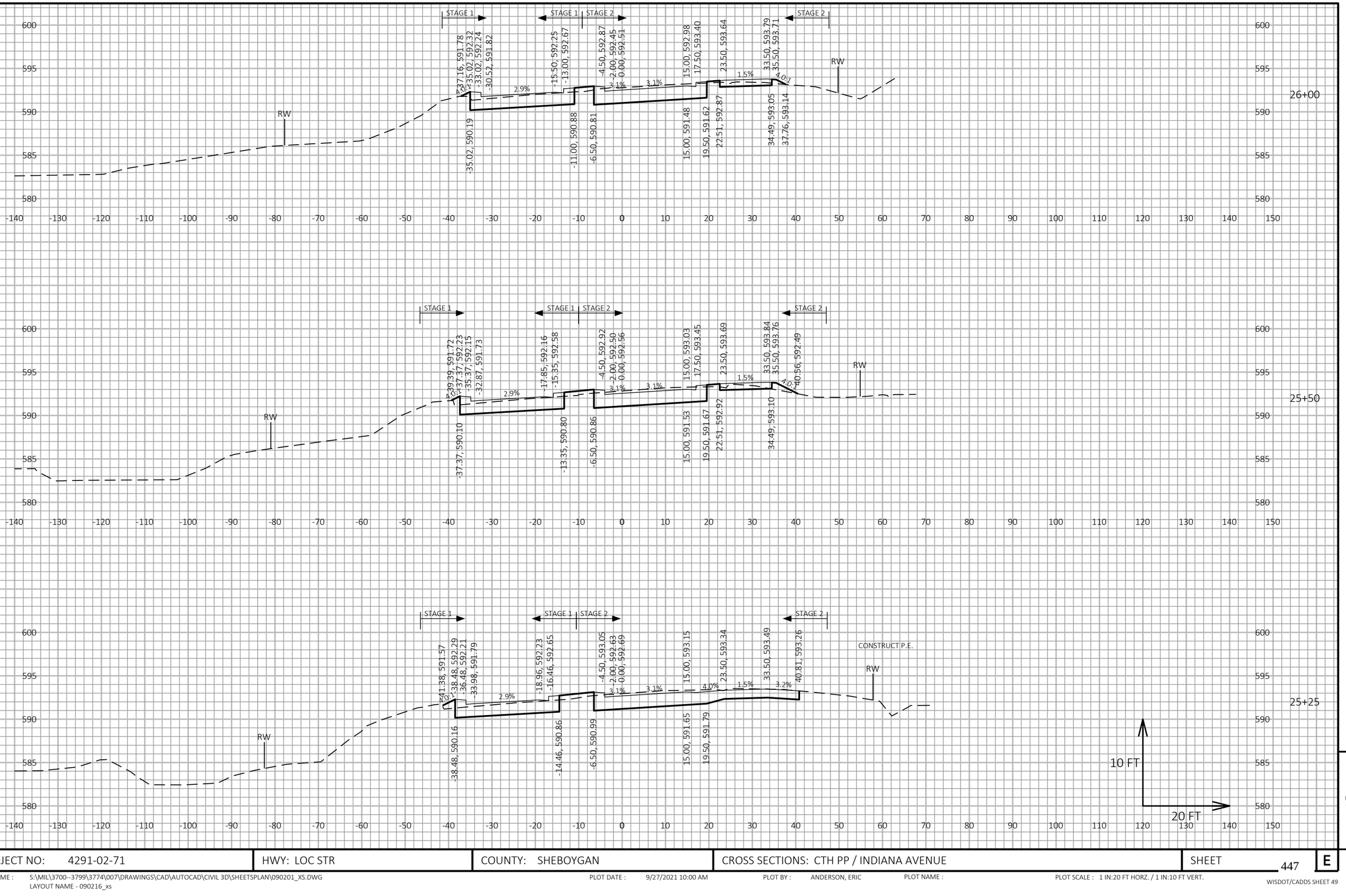


PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 446	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090215_xs

PLOT DATE : 9/27/2021 10:00 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

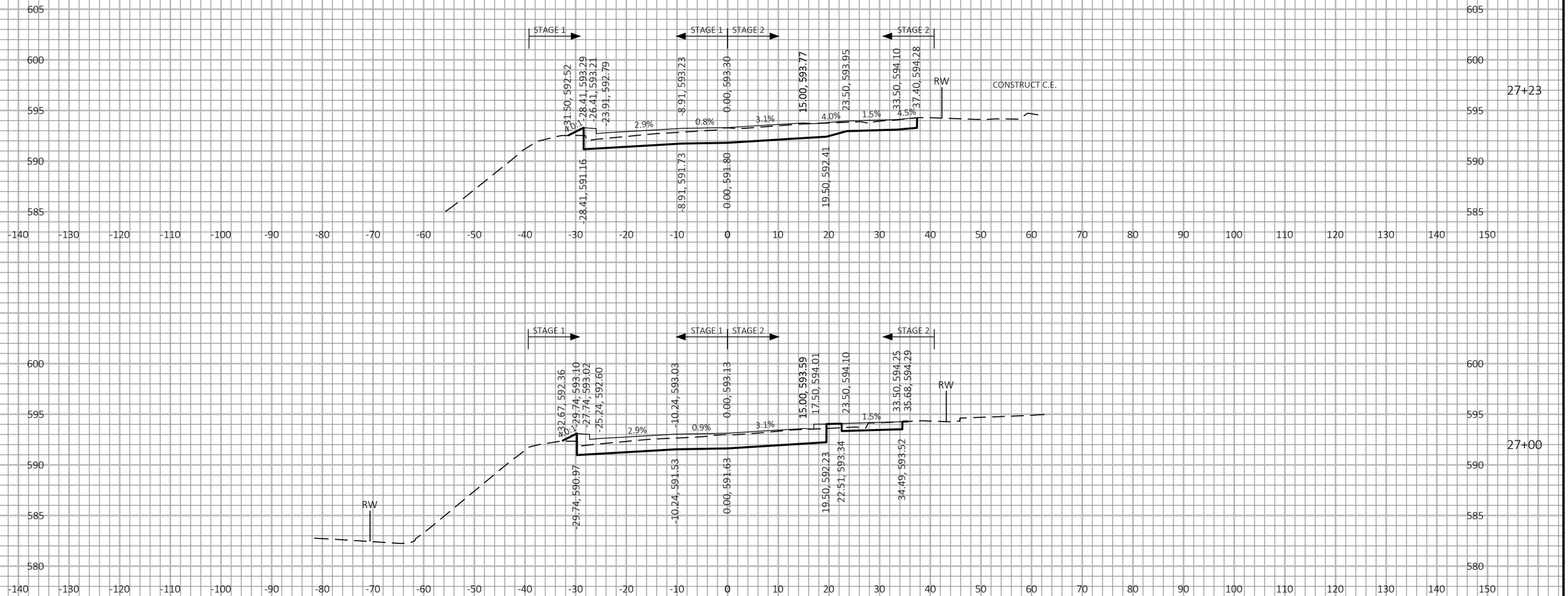
9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 447	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090216_xs

PLOT DATE : 9/27/2021 10:00 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

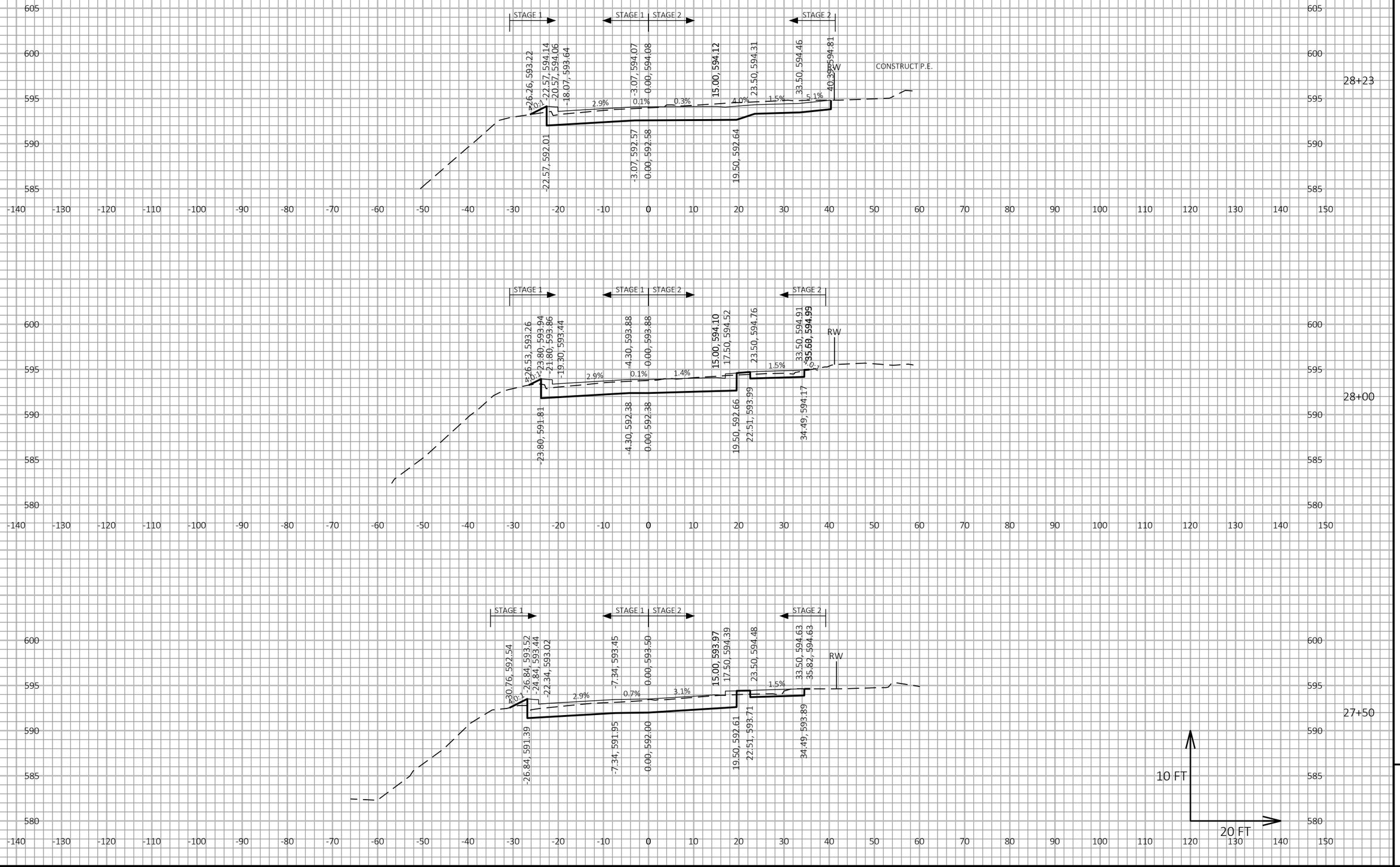
9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 448	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090217_xs

PLOT DATE : 9/27/2021 10:00 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

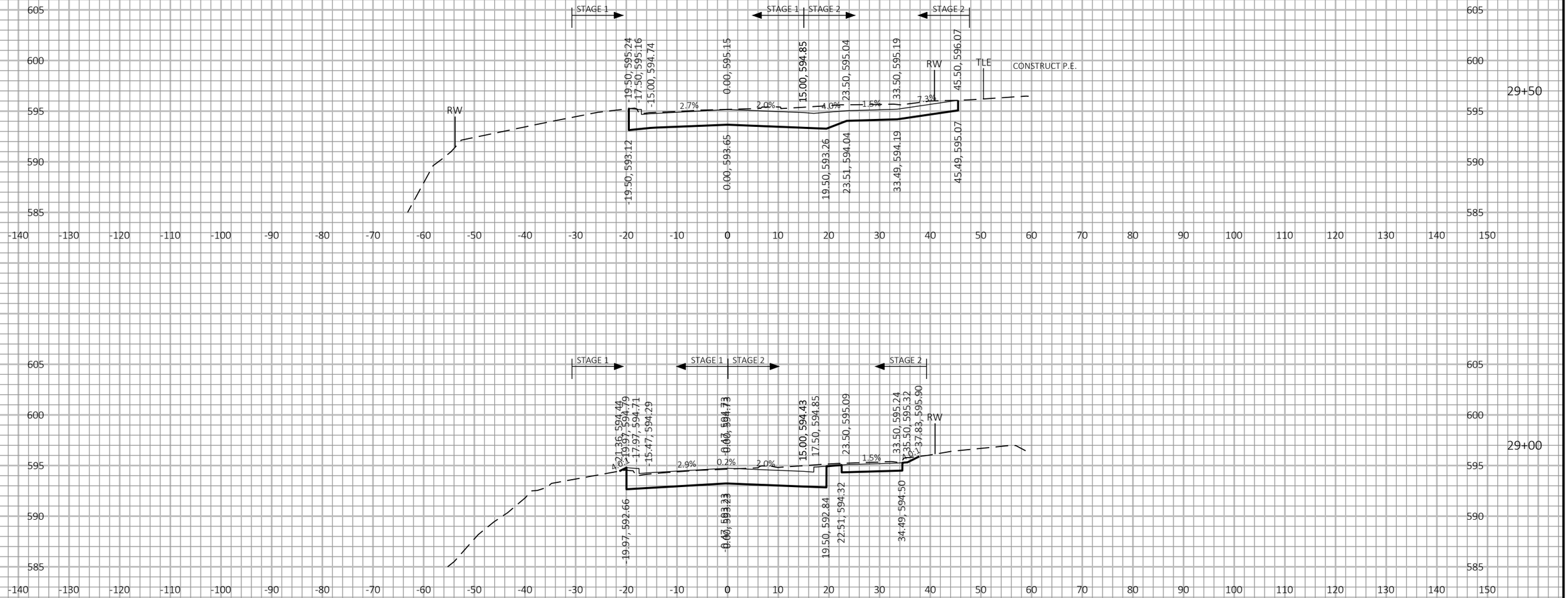
9

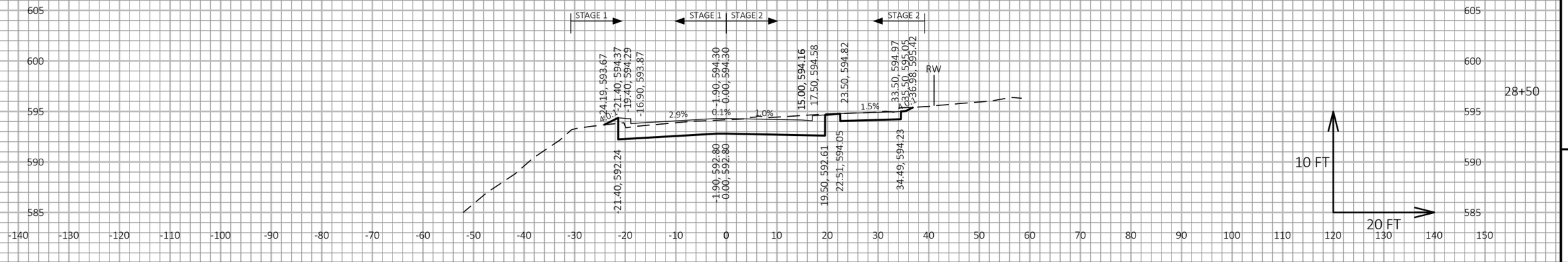
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 449	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090218_xs

PLOT DATE : 9/27/2021 10:00 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

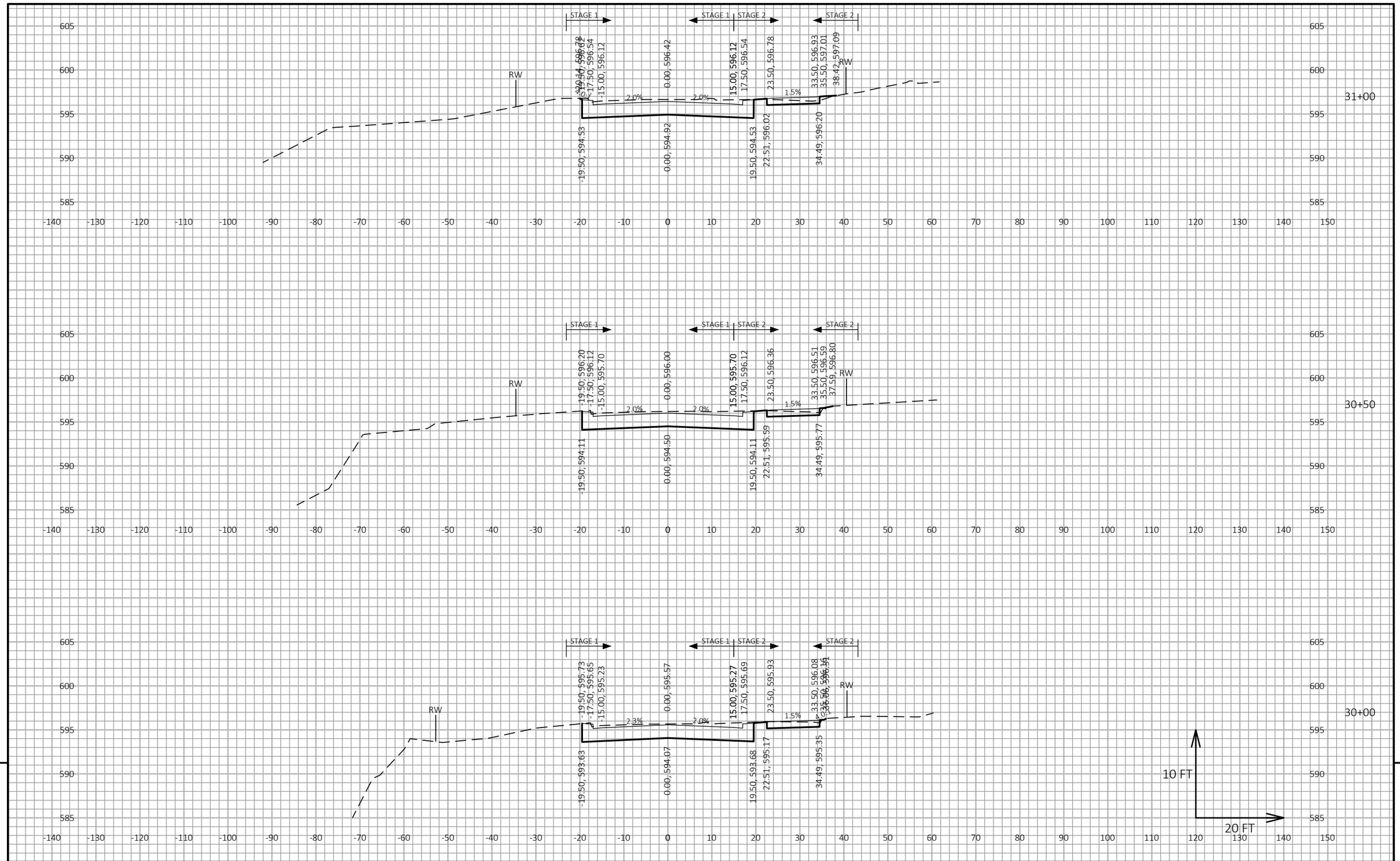
9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 450	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090219_xs

PLOT DATE : 9/27/2021 10:00 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

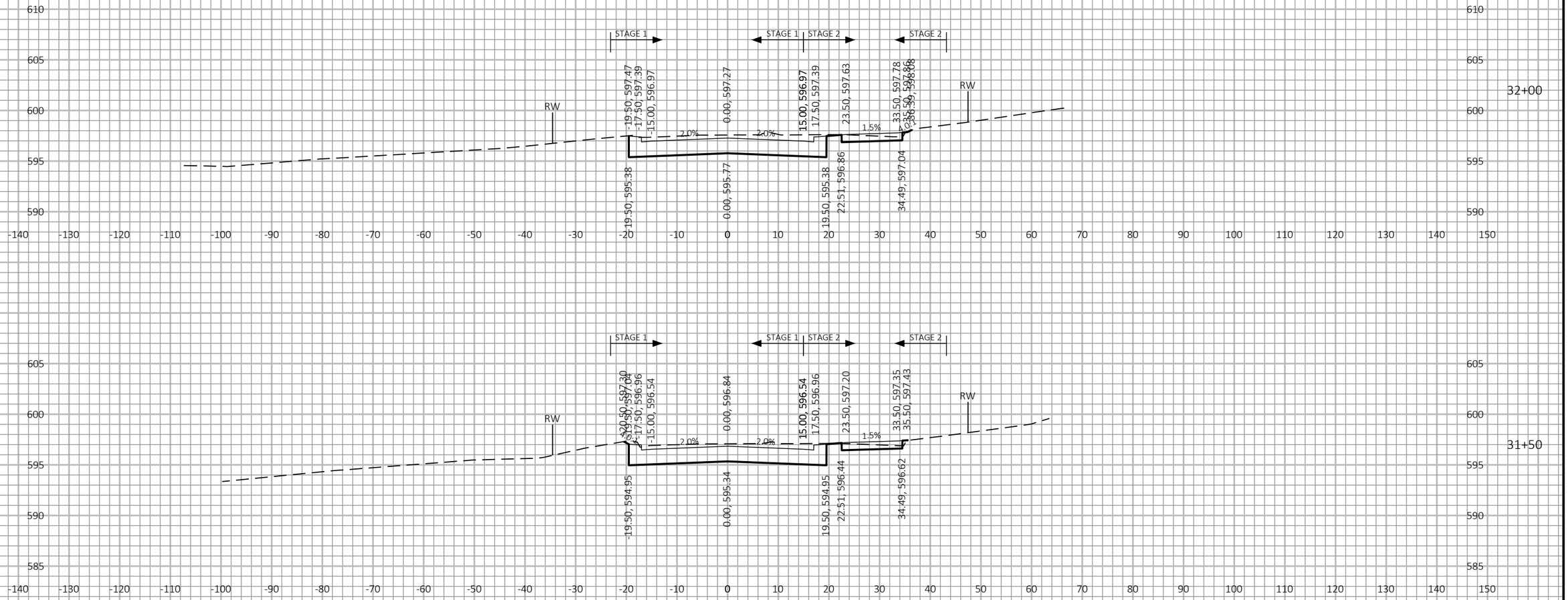
9

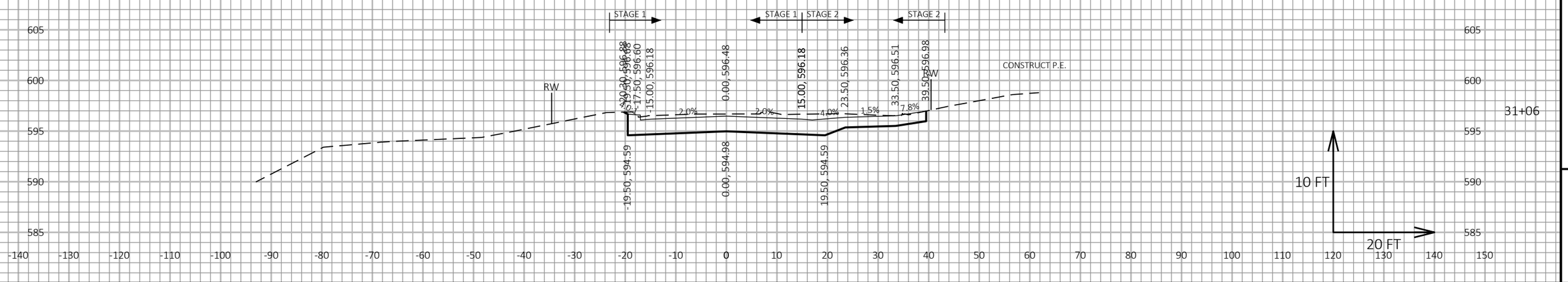
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 451	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090220_xs

PLOT DATE : 9/27/2021 10:00 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

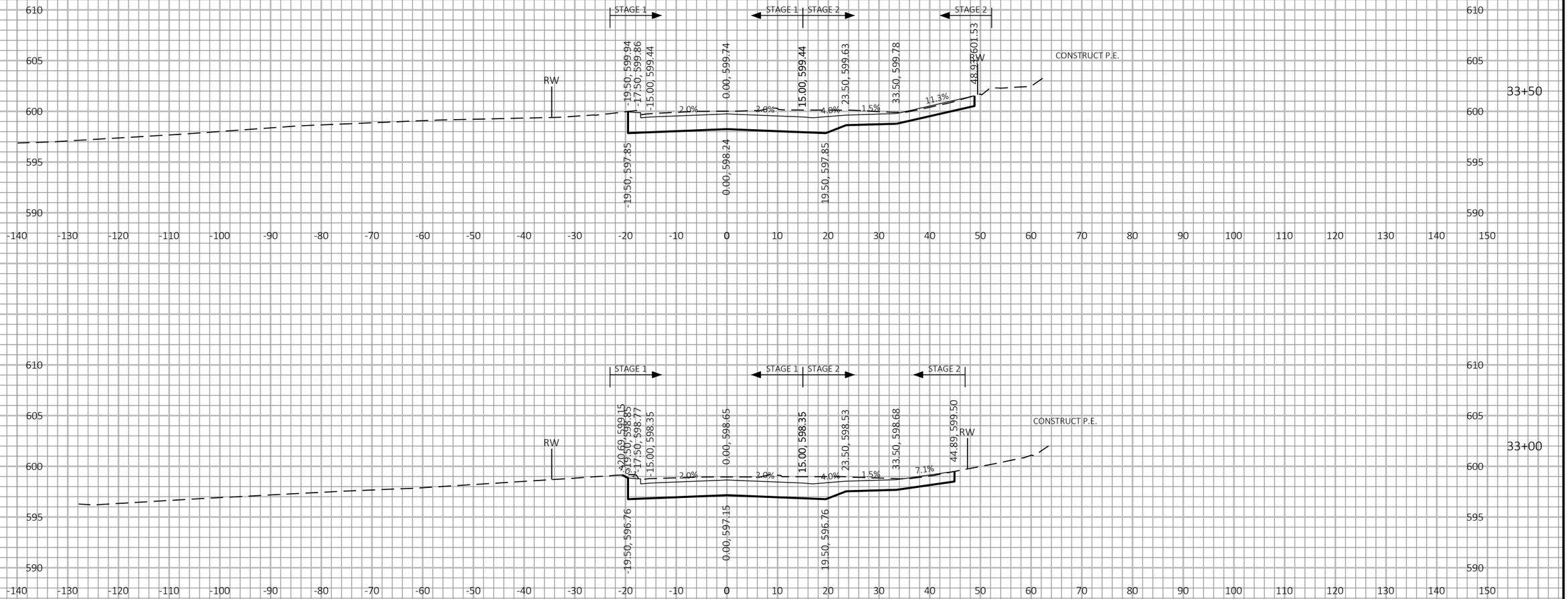
9

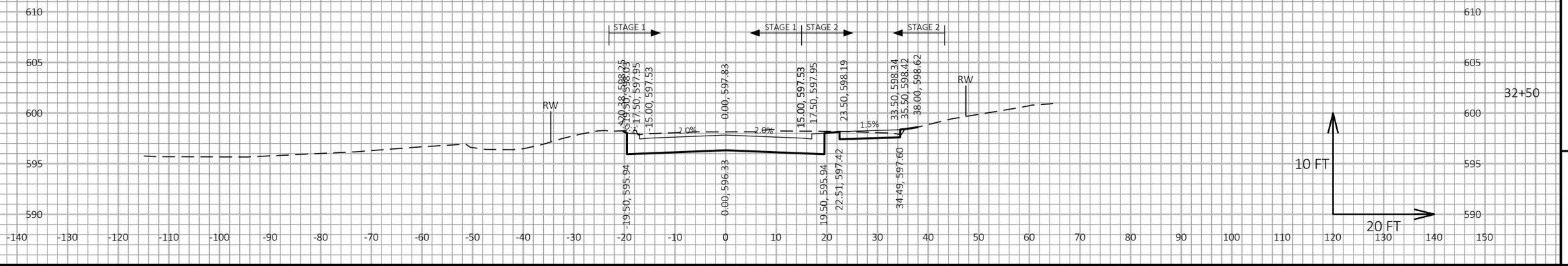
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 452	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090221_xs

PLOT DATE : 9/27/2021 10:01 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

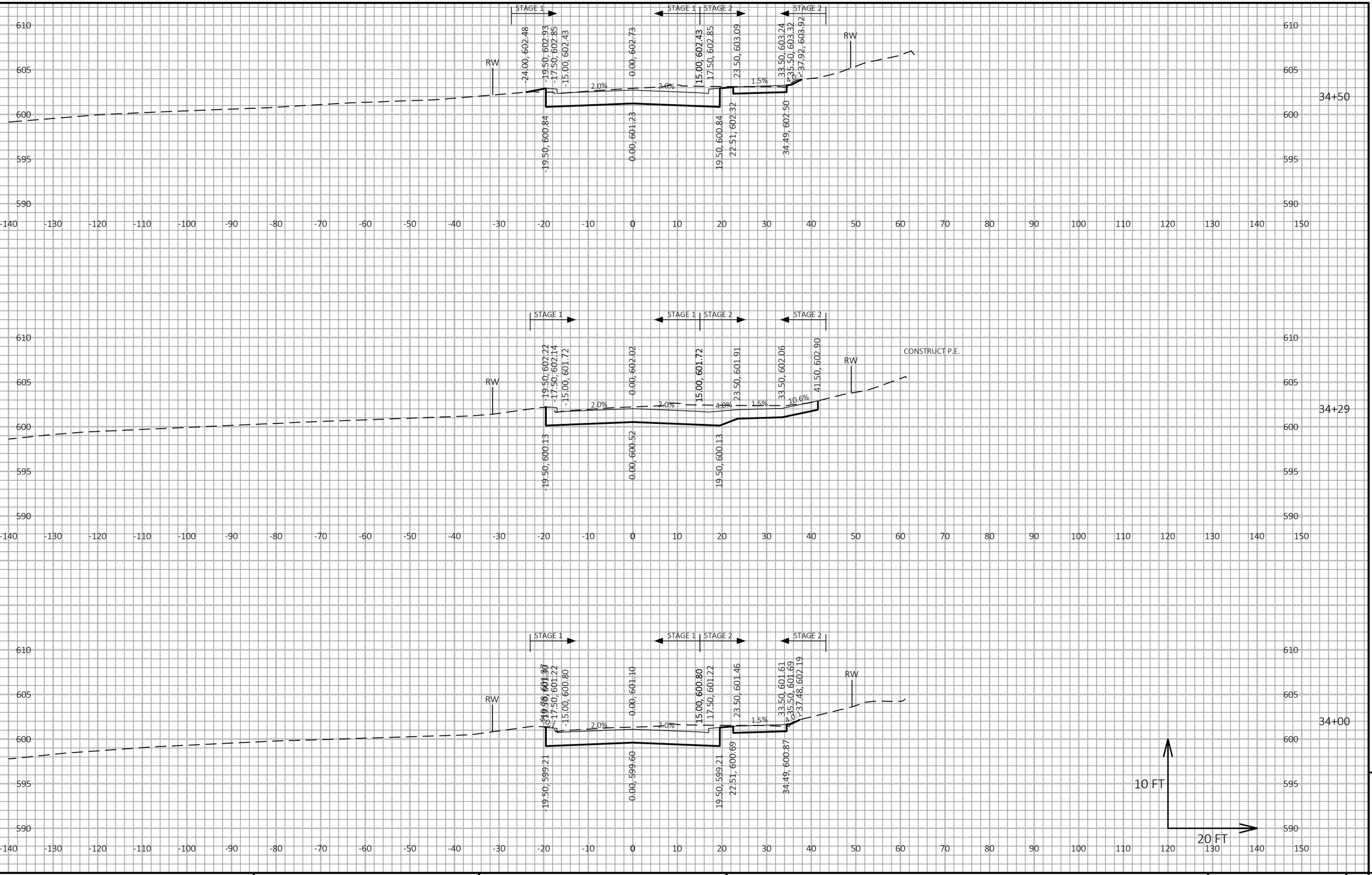
9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 453	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090222_xs

PLOT DATE : 9/27/2021 10:04 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

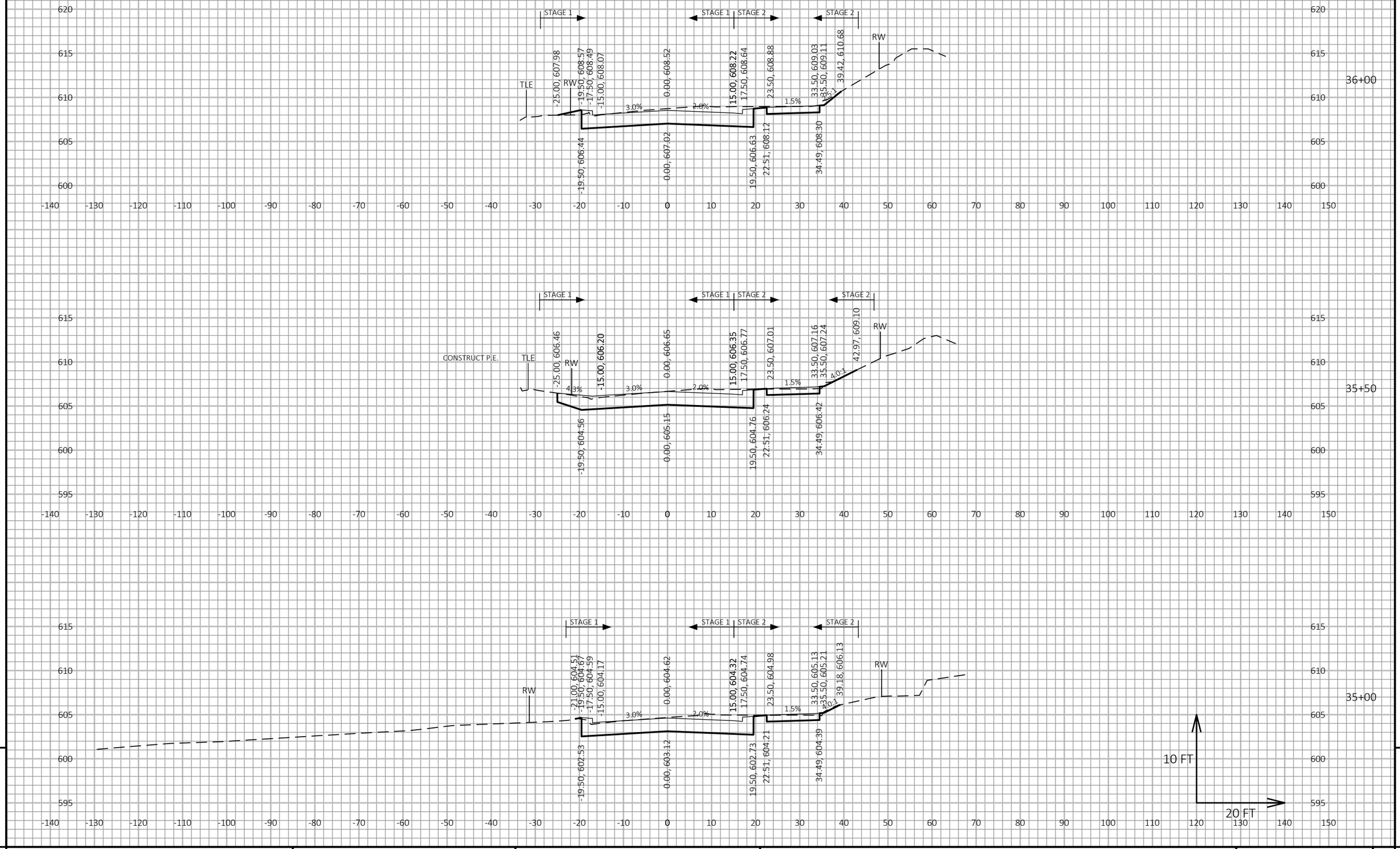
9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 454	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090223_xs

PLOT DATE : 9/27/2021 10:01 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

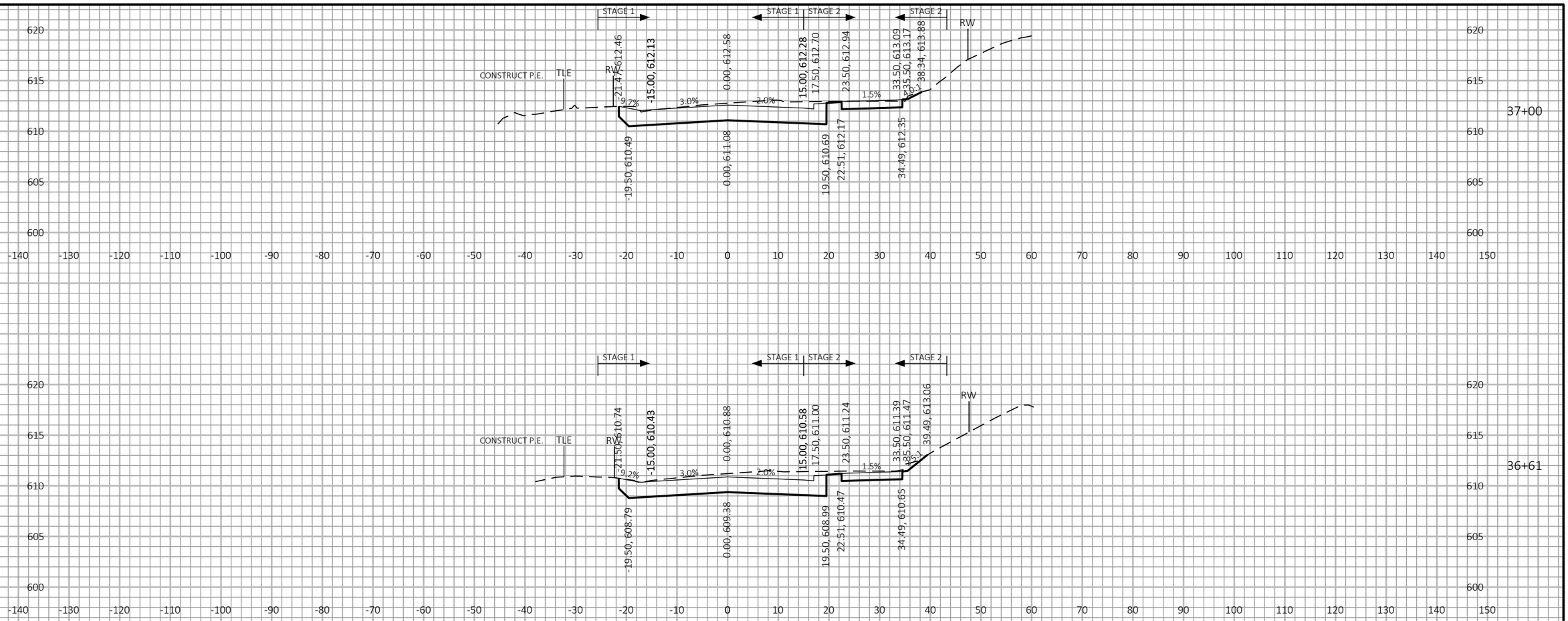
9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 455	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090224_xs

PLOT DATE : 9/27/2021 10:01 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

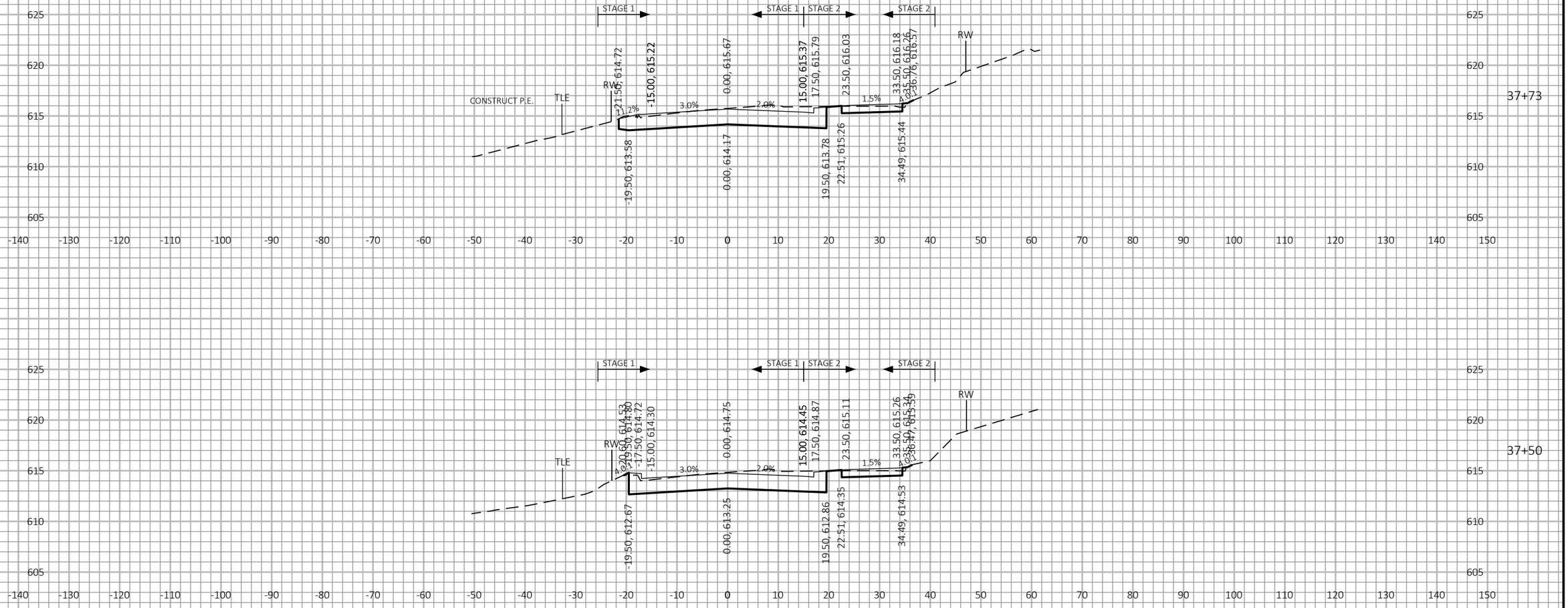
9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 456	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090225_xs

PLOT DATE : 9/27/2021 10:01 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

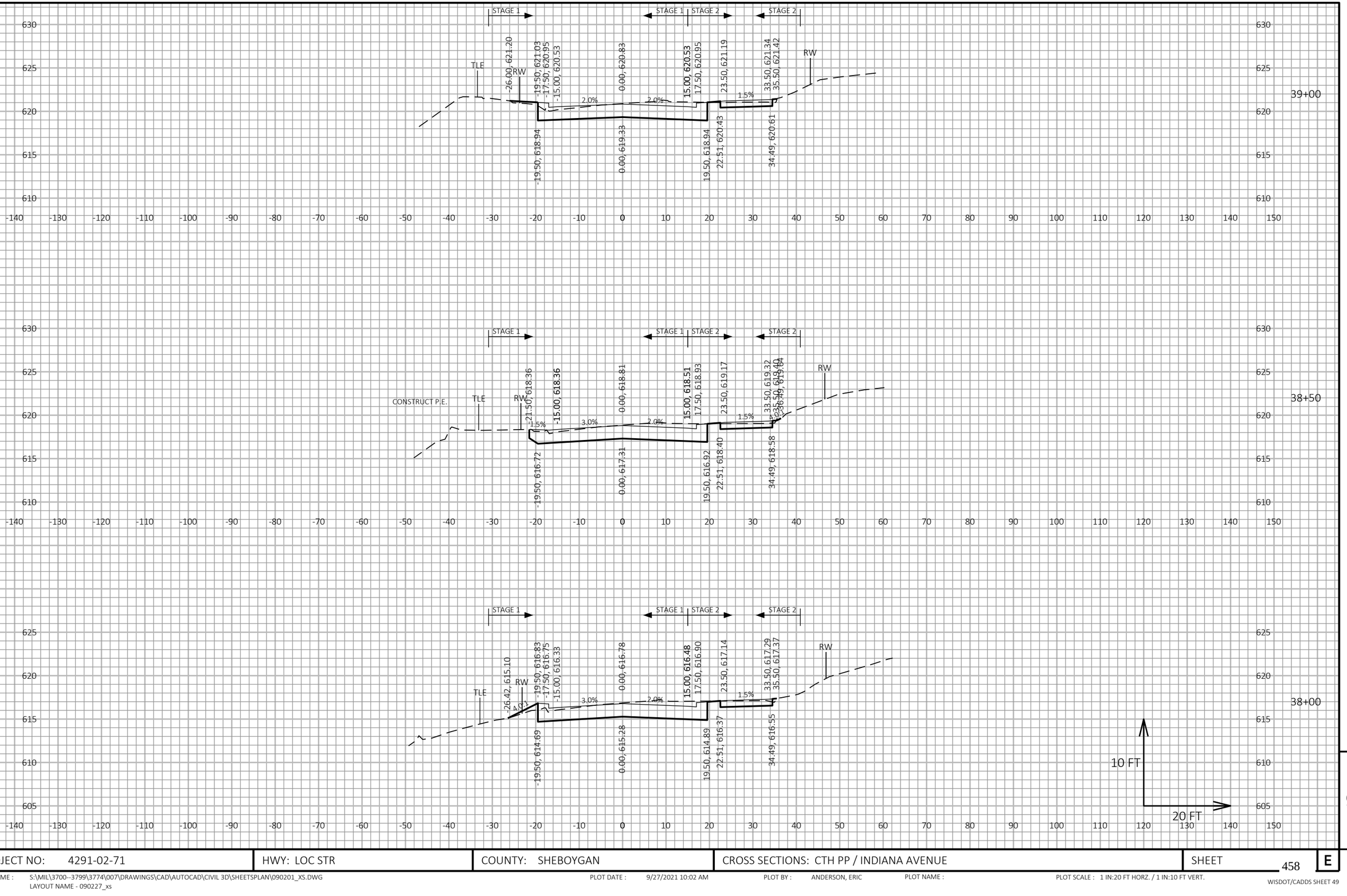
9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 457	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090226_xs

PLOT DATE : 9/27/2021 10:02 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

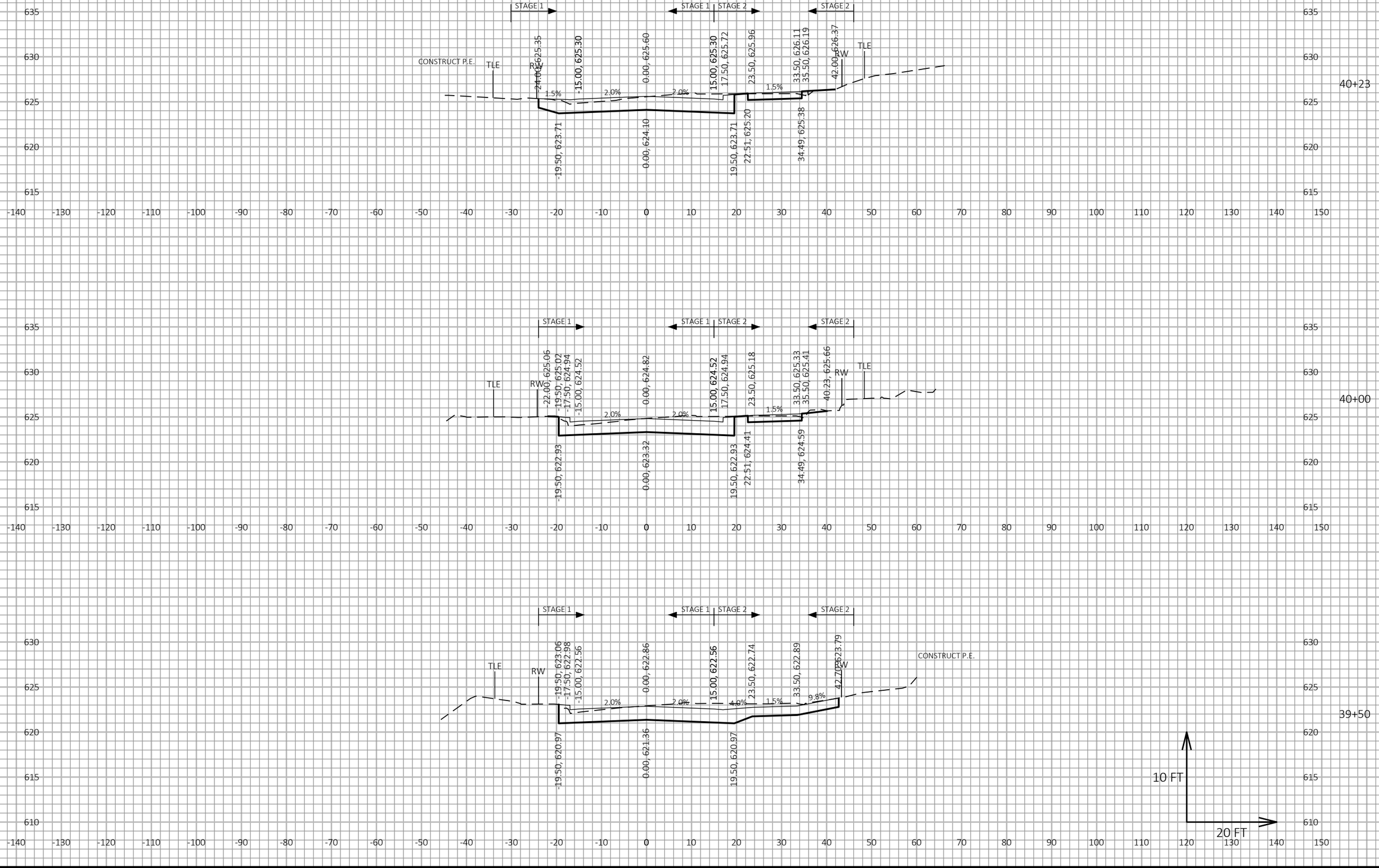
9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 458	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090227_xs

PLOT DATE : 9/27/2021 10:02 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

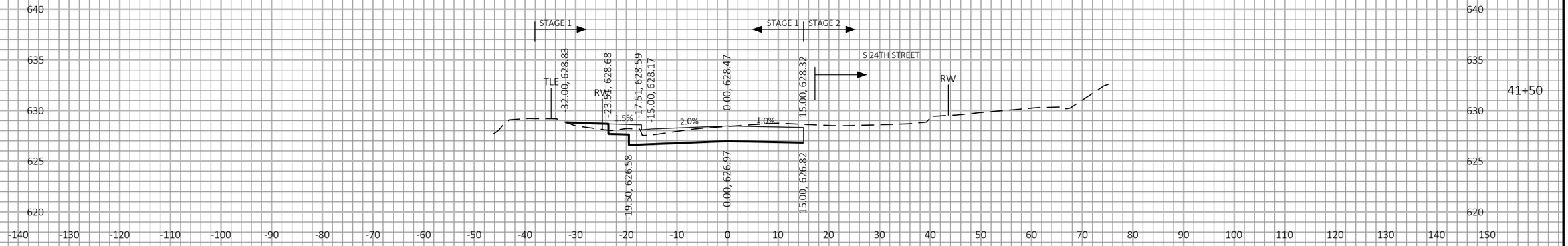


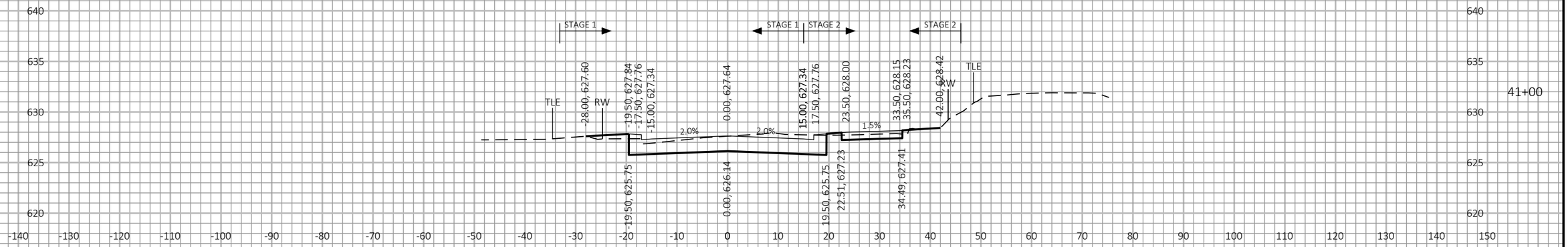
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 459	E

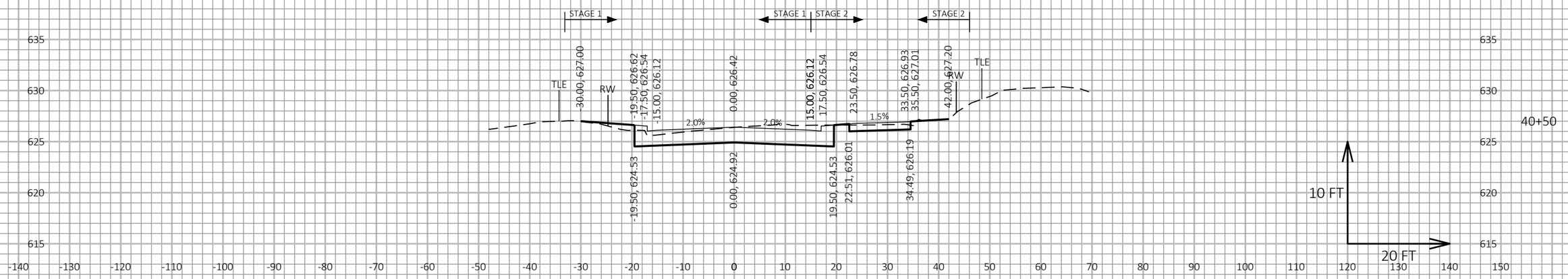
FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090228_xs

PLOT DATE : 9/27/2021 10:02 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







9

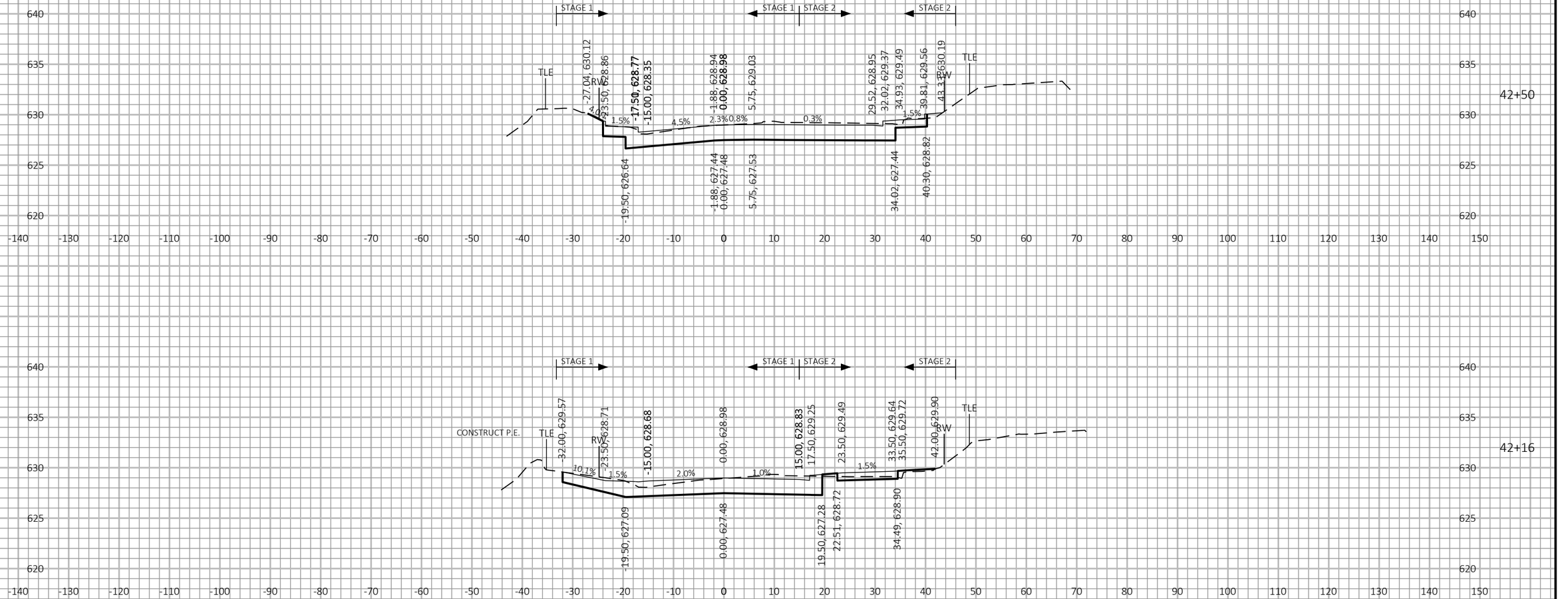
9

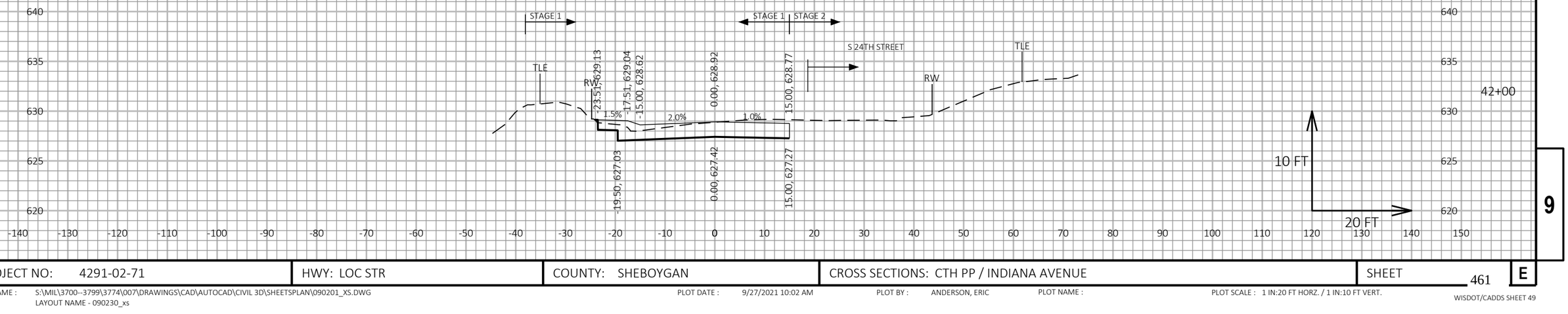
PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 460	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090229_xs

PLOT DATE : 9/27/2021 10:02 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



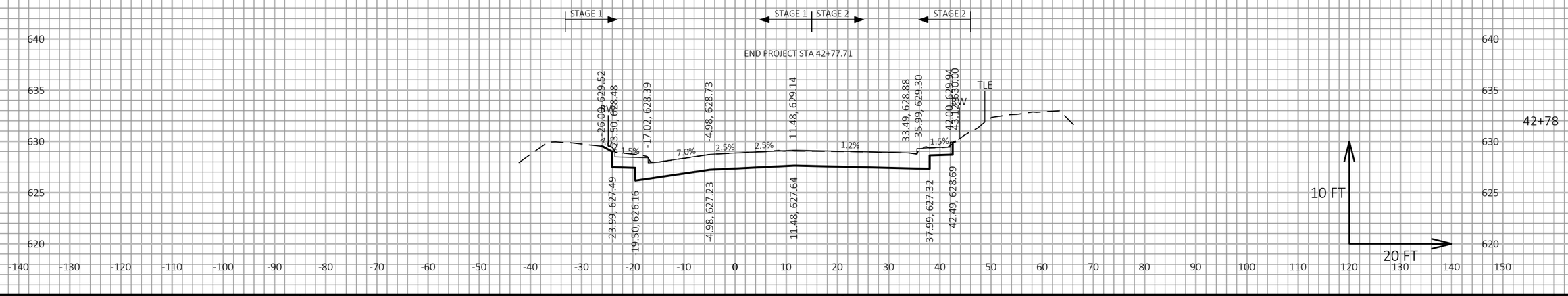


9

9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 461	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090230_xs
PLOT DATE : 9/27/2021 10:02 AM
PLOT BY : ANDERSON, ERIC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 4291-02-71	HWY: LOC STR	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH PP / INDIANA AVENUE	SHEET 462	E

FILE NAME : S:\MIL\3700--3799\3774\007\DRAWINGS\CAD\AUTOCAD\CIVIL 3D\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090231_xs

PLOT DATE : 9/27/2021 10:03 AM PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov