Jan 14, 2020

ORDER OF SHEETS

Section No.

Section No.

Section No.

Section No.

TOTAL SHEETS =

Title Typical Sections and Details Estimate of Quantities STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

wood Pt.

Sawver

Sturgeo

FHH

Harbor

POTAWATOMI

STATE PARK

Bav

PLAN OF PROPOSED IMPROVEMENT

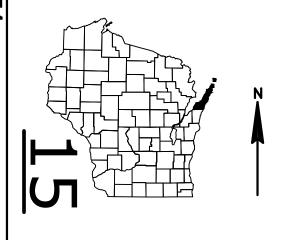
STATE PROJECT PROJECT CONTRACT 4997-05-00 ———

MAPLE-OREGON BRIDGE, STURGEON BAY

NEENAH AVENUE - FIRST AVENUE

LOCAL STREET DOOR COUNTY

STATE PROJECT NUMBER 4997-05-71

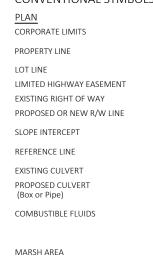


Standard Detail Drawings

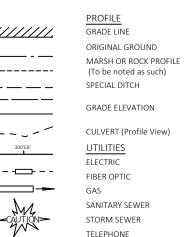
DESIGN DESIGNATION

A.A.D.T.	2017	=	7,200
A.A.D.T.	2045	=	N/A
D.H.V.		=	550
D.D.		=	51/49
T.		=	4.0%
DESIGN SPEED		=	30 MPH
ESALS		=	N/A

CONVENTIONAL SYMBOLS



WOODED OR SHRUB AREA

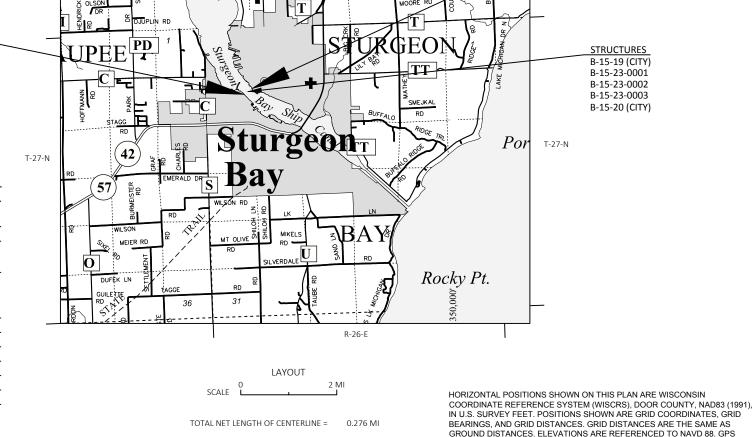


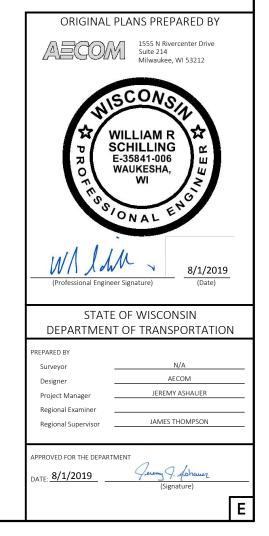
TELEPHONE POLE

BEGIN PROJECT STA 17+18.67

Y = 156513.29

X = 492625.89





Mud

END PROJECT

STA 31+75.40

DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

2

GENERAL NOTES

- 1. THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
- 2. RADII, ELEVATIONS, AND DIMENSIONS ARE GIVEN AT THE PAVEMENT EDGES UNLESS OTHERWISE NOTED IN THE PLANS.
- 3. TRAFFIC CONTROL SHALL FOLLOW STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR MAINLINE CLOSURES, DETAIL C FOR MAINLINE CLOSURE ROW OF BARRICADES JUST NORTH OF NEENAH AVENUE AND JUST SOUTH OF FIRST AVENUE. THE LAST PUBLIC ROAD INTERSECTION PRIOR TO CLOSURE SHALL BE MADISON AVENUE SOUTH OF THE PROJECT AND 3RD AVENUE NORTH OF THE PROJECT. ADJUST TRAFFIC CONTROL DEVICE LOCATIONS TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- 4. A FULLY SIGNED DETOUR ROUTE IS NOT INCLUDED. PLACE TRAFFIC CONTROL FIXED MESSAGE SIGN PRIOR TO THE BUSINESS 42/57 AND CTH C/S INTERSECTION FOR NORTHBOUND TRAFFIC AND NORTH OF THE STH 42/57 AND EGG HARBOR ROAD ROUNDABOUT FOR SOUTHBOUND TRAFFIC.
- 5. EROSION CONTROL ITEMS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS TO FIT FIELD CONDITIONS.
- 6. WATERWAYS AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.

PROJECT CONTACTS

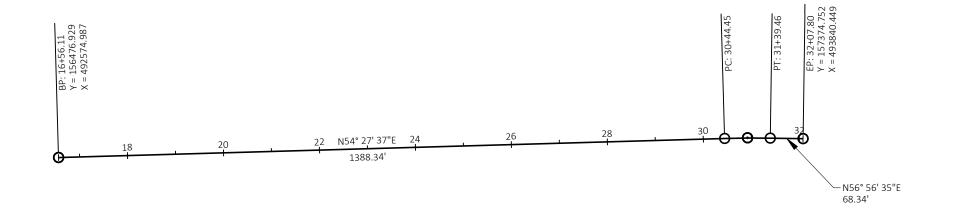
WISCONSIN DNR
MATTHEW SCHAEVE
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
MATTHEW.SHAEVE@WISCONSIN.GOV

US COAST GUARD LEE D SOULE 1240 EAST 9TH STREET CLEVELAND, OH 44199 LEE.D.SOULE@USCG.MIL

ORDER OF SECTION 2

GENERAL NOTES/ALIGNMENT DIAGRAM PROJECT OVERVIEW EROSION CONTROL PAVEMENT MARKING





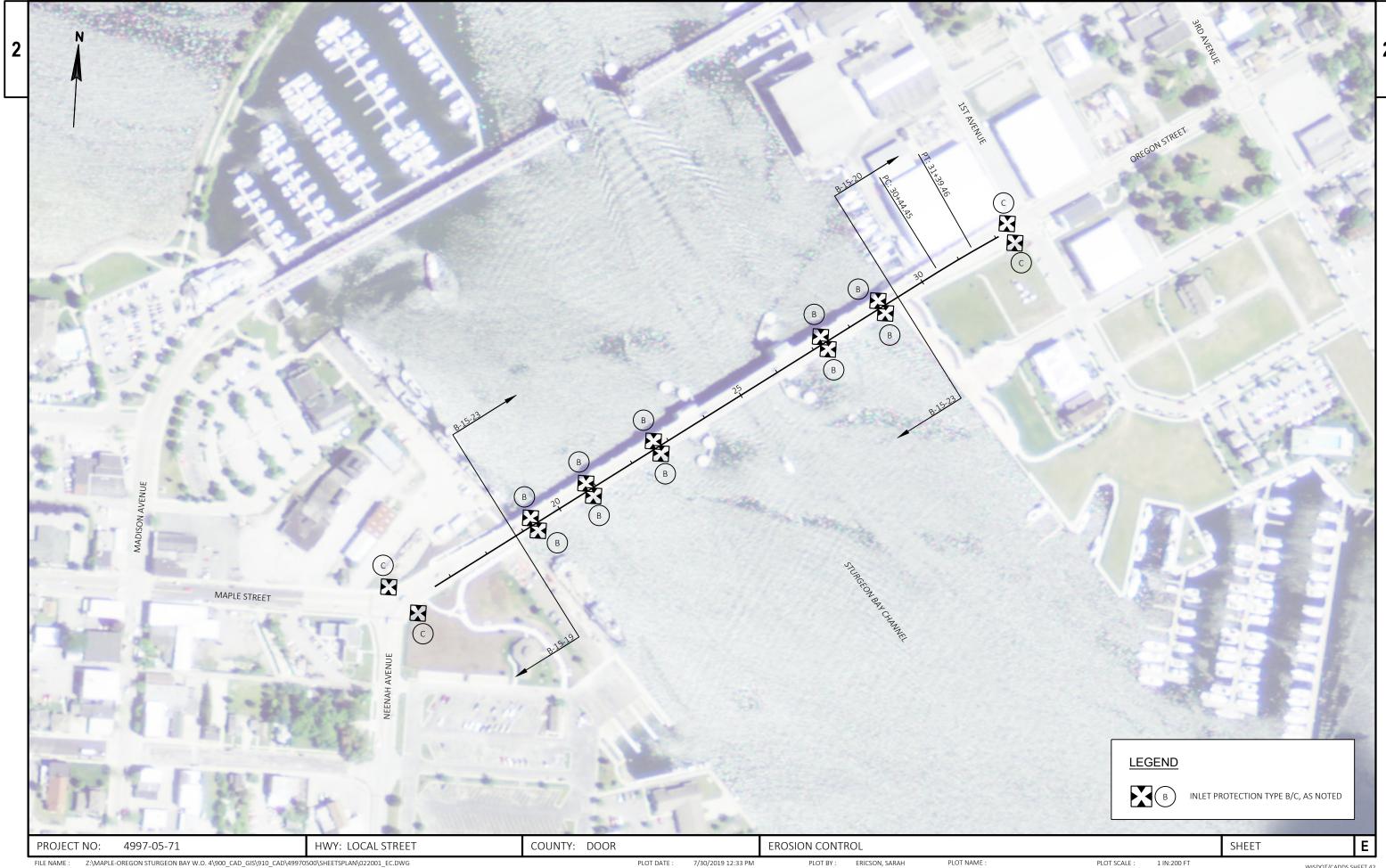
PI STA = 30+91.96 Y = 157311.543 X = 493743.359 DELTA = 2*28'28" D = 2*36'16" T = 47.51' L = 95.01' R = 2200.00' PC STA = 30+44.45 PT STA = 31+39.46

ALIGNMENT DIAGRAM

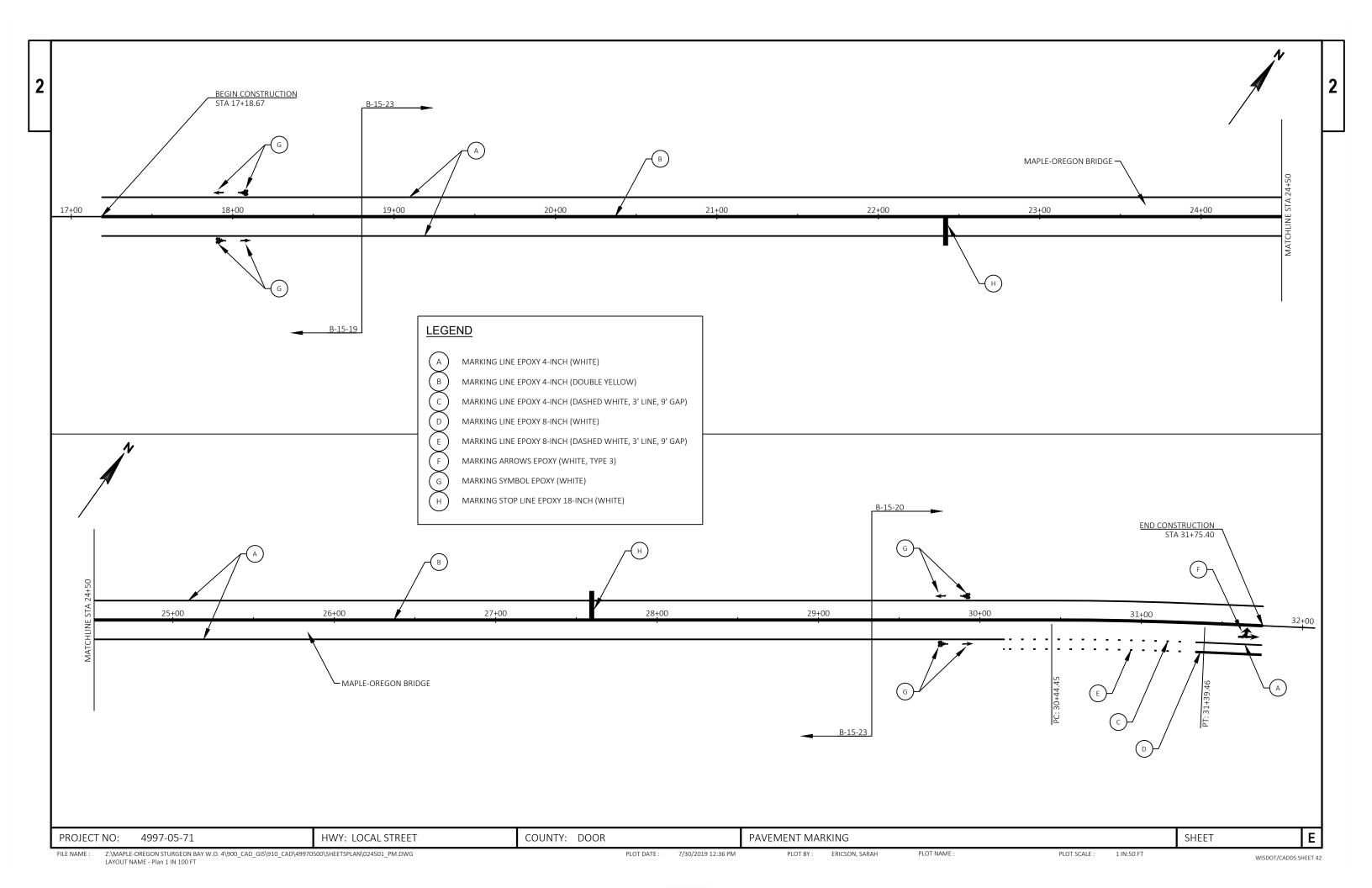
PROJECT NO: 4997-05-71 HWY: LOCAL STREET COUNTY: DOOR GENERAL NOTES/ALIGNMENT DIAGRAM SHEET **E**

11/22/2019 9:59 AM





Z:\MAPLE-OREGON STURGEON BAY W.O. 4\900_CAD_GIS\910_CAD\49970500\SHEETSPLAN\022001_EC.DWG LAYOUT NAME - Plan 1 IN 100 FT PLOT DATE : 7/30/2019 12:33 PM PLOT BY: ERICSON, SARAH PLOT NAME : PLOT SCALE : 1 IN:200 FT WISDOT/CADDS SHEET 42



					4997-05-71
Line	Item	Item Description	Unit	Total	Qty
0002	509.0301	Preparation Decks Type 1	SY	181.000	181.000
0004	509.0302	Preparation Decks Type 2	SY	72.000	72.000
0006	509.0310.S	Sawing Pavement Deck Preparation Areas	LF	1,809.000	1,809.000
8000	509.2100.S	Concrete Masonry Deck Repair	CY	20.000	20.000
0010	509.5100.S	Polymer Overlay	SY	6,031.000	6,031.000
0012	619.1000	Mobilization	EACH	1.000	1.000
0014	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0016	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0018	628.7010	Inlet Protection Type B	EACH	10.000	10.000
0020	628.7015	Inlet Protection Type C	EACH	4.000	4.000
0022	643.0300	Traffic Control Drums	DAY	75.000	75.000
0024	643.0420	Traffic Control Barricades Type III	DAY	240.000	240.000
0026	643.0705	Traffic Control Warning Lights Type A	DAY	480.000	480.000
0028	643.0900	Traffic Control Signs	DAY	120.000	120.000
0030	643.1000	Traffic Control Signs Fixed Message	SF	200.000	200.000
0032	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
0034	643.5000	Traffic Control	EACH	1.000	1.000
0036	646.1020	Marking Line Epoxy 4-Inch	LF	5,709.000	5,709.000
0038	646.3020	Marking Line Epoxy 8-Inch	LF	45.000	45.000
0040	646.5020	Marking Arrow Epoxy	EACH	1.000	1.000
0042	646.5220	Marking Symbol Epoxy	EACH	8.000	8.000
0044	646.6120	Marking Stop Line Epoxy 18-Inch	LF	36.000	36.000
0046	SPV.0035	Special 01. Concrete Masonry Lightweight Deck Repair	CY	2.000	2.000
0048	SPV.0105	Special 01. Counterweight Calculations and Span Balancing	LS	1.000	1.000
0050	SPV.0180	Special 01. Diamond Grinding Bascule Span	SY	1,106.000	1,106.000

2
J

	EROSION CONTROL							TRAI	FFIC CONTROL FIXED MESS	AGE SIGNS
		628.1905	628.1910	628.7010	628.7015				643.1000	
			MOBILIZATION						TRAFFIC CONTROL	
		MOBILIZATION	EMERGENCY	INLET	INLET		NUMBER	SIGN SIZE	FIXED MESSAGE SIGNS	
		EROSION	EROSION	PROTECTION	PROTECTION	LOCATION	SIGNS	IN x IN	SF	NOTES
		CONTROL	CONTROL	TYPE B	TYPE C	STH 42/57 NORTHBOUND	2	60 x 120	100	BETWEEN DULUTH AVENUE AND GREEN BAY ROAD EXIT
: [LOCATION	EACH	EACH	EACH	EACH	STH 42/57 SOUTHBOUND	2	60 x 120	100	BETWEEN GORDON ROAD AND EGG HARBOR ROAD
	PROJECT 4997-05-71	2	1	10	4	TOTALS			200	
	TOTALS	2	1	10	4					

TRAFFIC CONTROL

		TRAFFIC	0300 CONTROL JMS	TRAFFIC	.0420 CONTROL DES TYPE III	TRAFFIC (0705 CONTROL GHTS TYPE A	TRAFFIC	0900 CONTROL GNS	TRAFFIC	1050 CONTROL S PCMS	643.5000 TRAFFIC CONTROL
STAGE	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS*	EACH
PROJECT 4997-05-71	-	-	-	-	-	-	-	-	-	-	-	1
STAGE 1	5	5	25	16	80	32	160	8	40	2	14	-
STAGE 2A	5	5	25	16	80	32	160	8	40	2	14	-
STAGE 2B	5	5	25	16	80	32	160	8	40	2	0	-
TOTALS			75		240		480		120		28	1

PAVEMENT MARKING

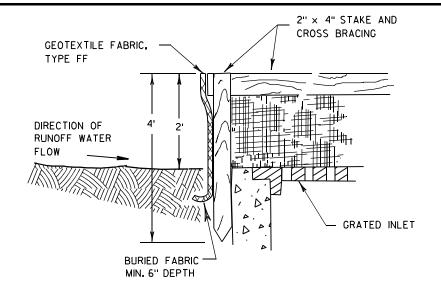
			646.1020		•	3020	646.5020	646.5220	646.6120
		MARKING	G LINE EPO		MARKING LINE	EPOXY 8-INCH	MARKING	MARKING	MARKING
			DOUBLE	DASHED		DASHED	ARROW	SYMBOL	STOP LINE EPOXY
		WHITE	YELLOW	WHITE	WHITE	WHITE	EPOXY	EPOXY	18-INCH
STA - STA	LOCATION	LF	LF	LF	LF	LF	EACH	EACH	LF
17+19 - 31+75	CL	-	2,912	-	-	-	-	-	-
17+19 - 31+75	LT	1,456	-	-	-	-	-	-	-
17+19 - 30+15	RT	1,296	-	-	-	-	-	-	-
18+00	LT/RT	-	-	-	-	-	-	4	-
22+42	RT	-	-	-	-	-	-	-	18
27+60	LT	-	-	-	-	-	-	-	18
29+85	LT/RT	-	-	-	-	-	-	4	-
30+15 - 31+35	RT	-	-	5	-	5	-	-	-
31+35 - 31+75	RT	40	-	-	40	-	-	-	-
31+65	RT	-	-	-	-	-	1	-	-
SUBTOTALS		2,792	2,912	5	40	5	1	8	36
TOTALS			5,709		4	15	1	8	36

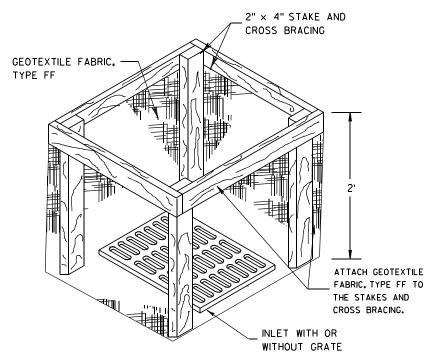
UNLESS OTHERWISE NOTED ALL ITEMS IN CATEGORY 0010

SHEET NO: PROJECT NO: 4977-05-71 HWY: LOCAL STREET COUNTY: DOOR MISCELLANEOUS QUANTITIES PLOT SCALE: 1.000000:1.000000

Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C07-14C	PAVEMENT MARKING ARROWS
15C07-14E	PAVEMENT MARKING FOR BIKE LANES
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C29-06A	BICYCLE LANE MARKING
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS





INLET PROTECTION, TYPE A

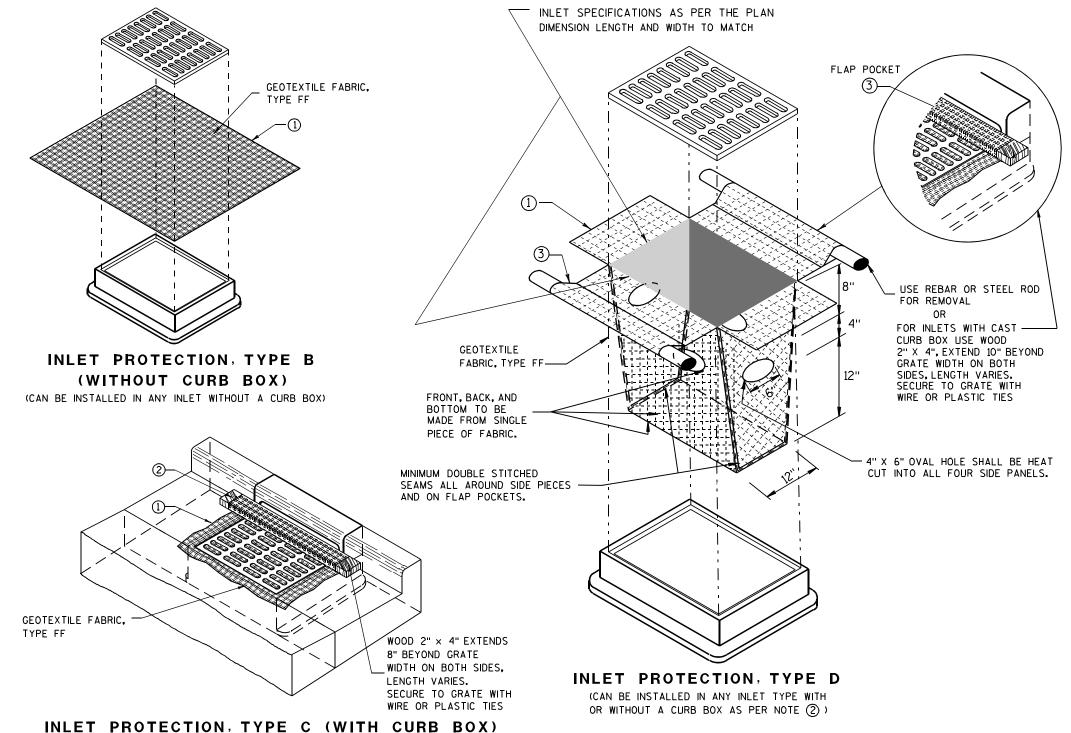
GENERAL NOTES

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

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

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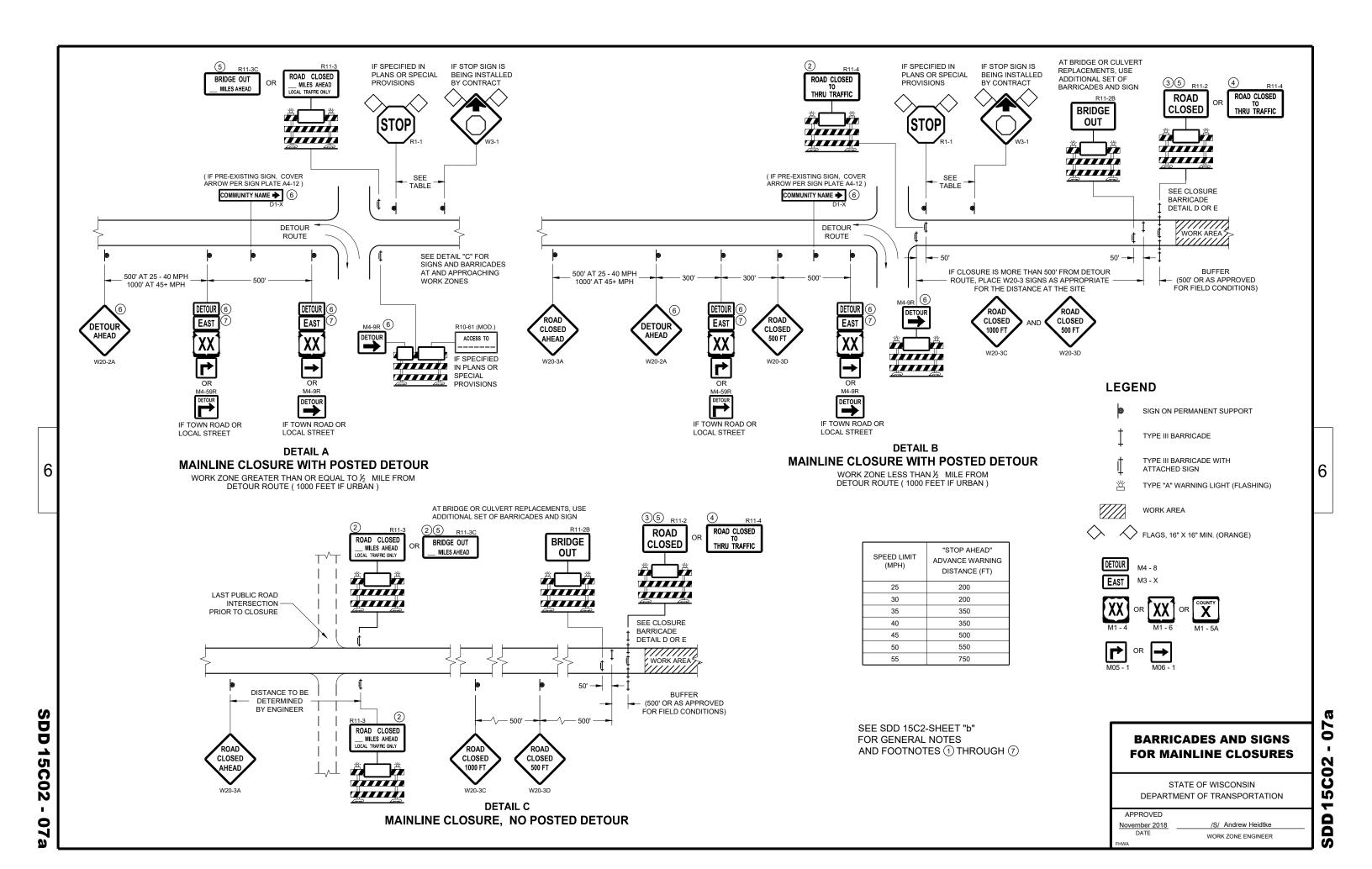
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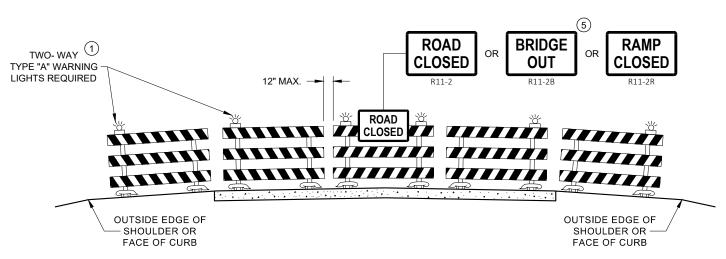
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

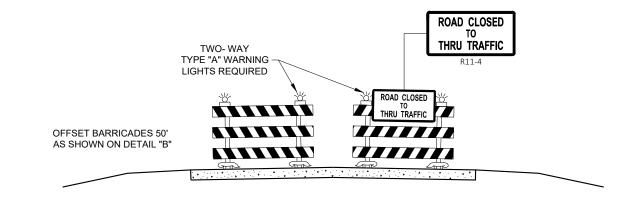
10/16/02 /S/ Beth Cannestra

CHIEF ROADWAY DEVELOPMENT ENGINEER





DETAIL D ROAD CLOSURE BARRICADE DETAIL **APPROACH VIEW**



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2. R11 - 3. M4 - 9. R11 - 4. AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)

D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

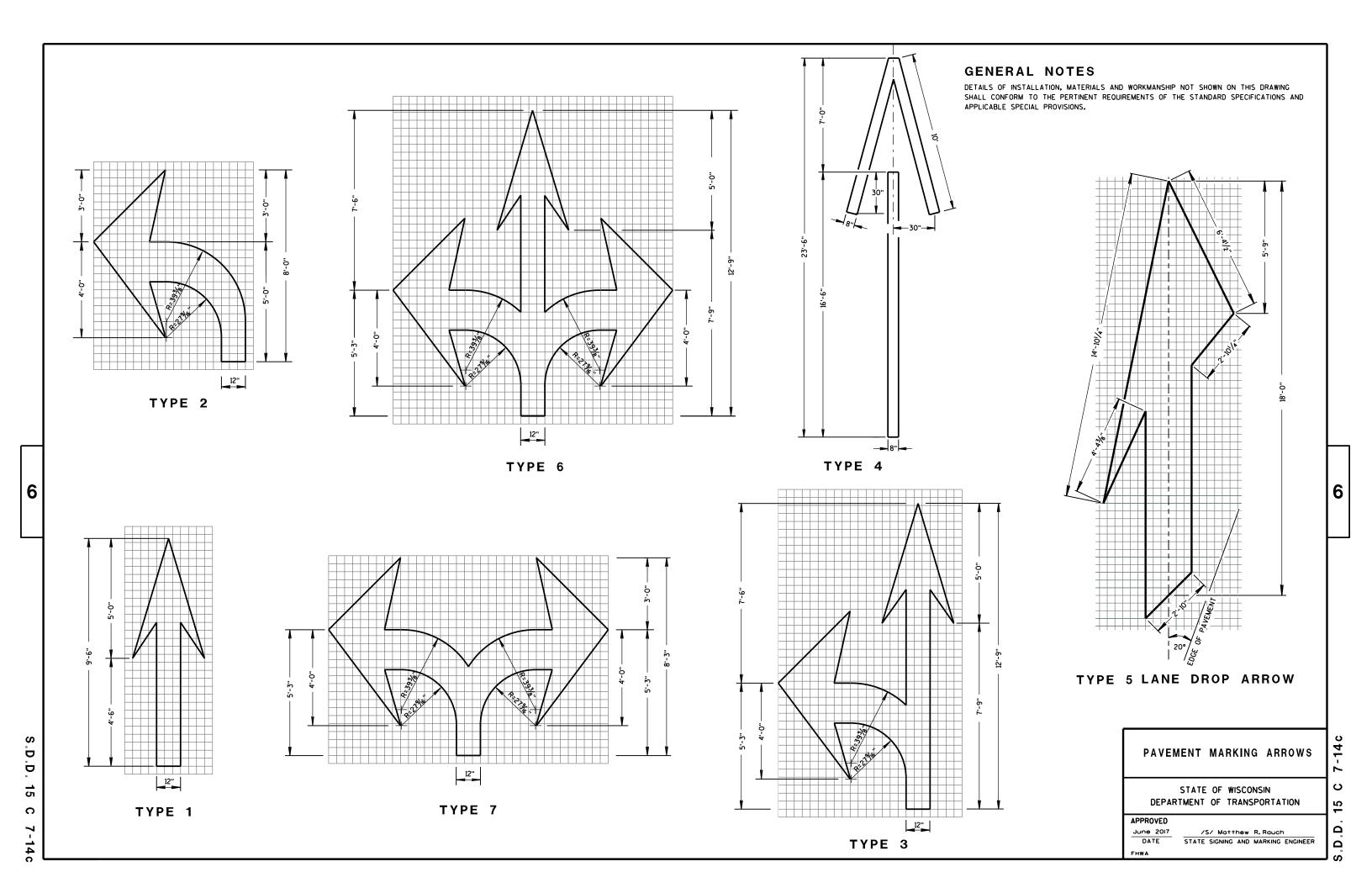
November 2018 DATE

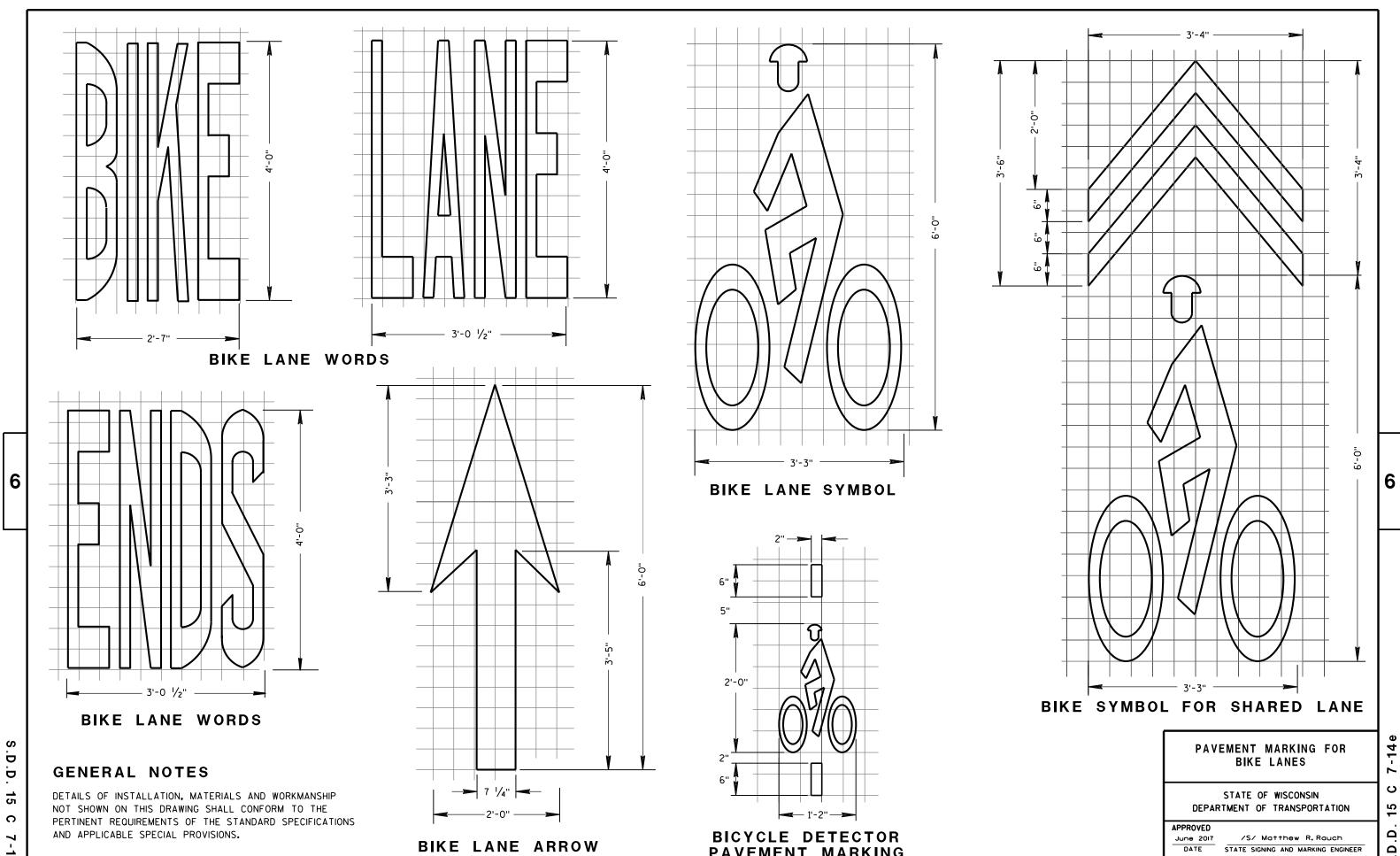
WORK ZONE ENGINEER

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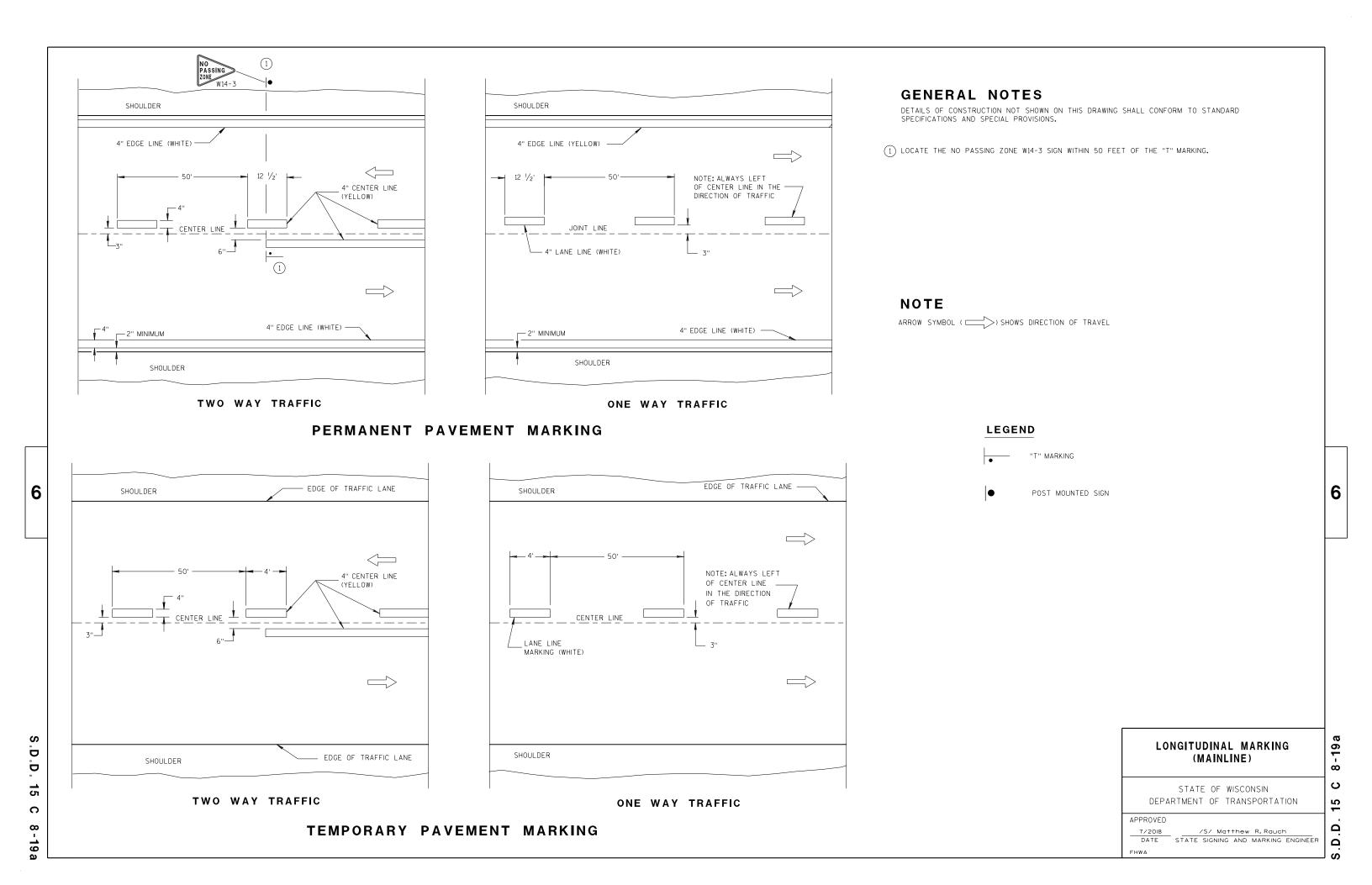
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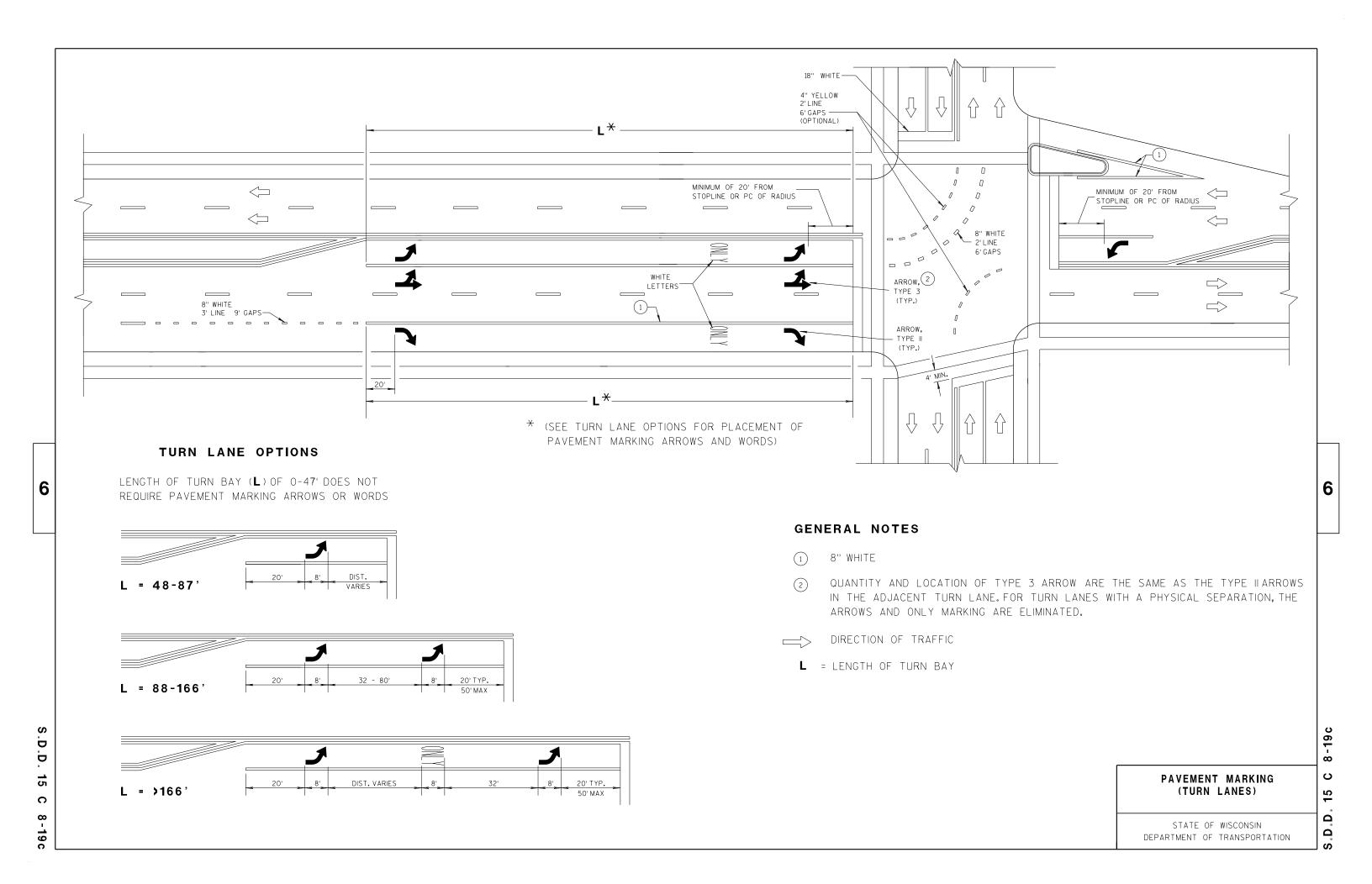
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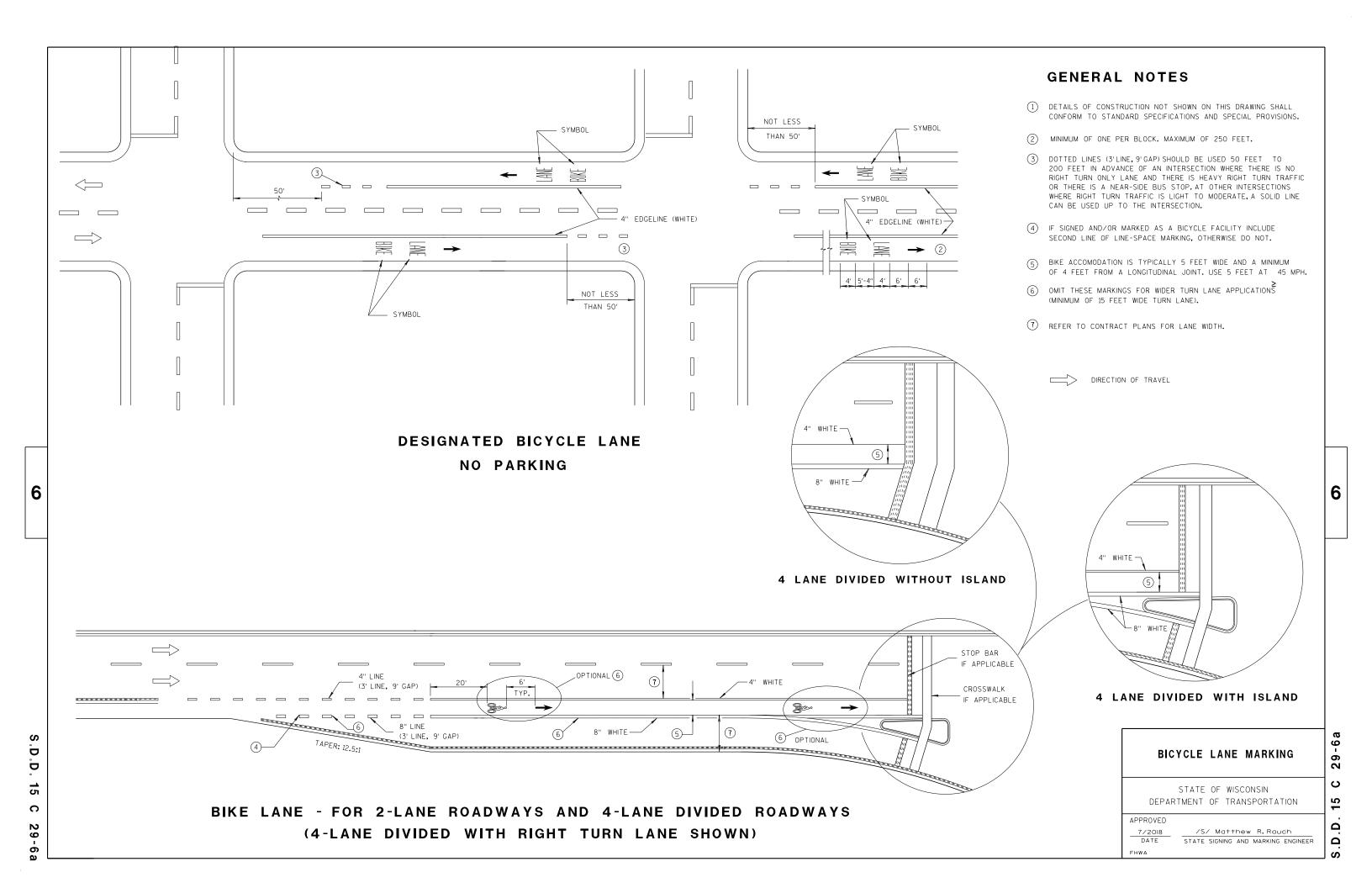


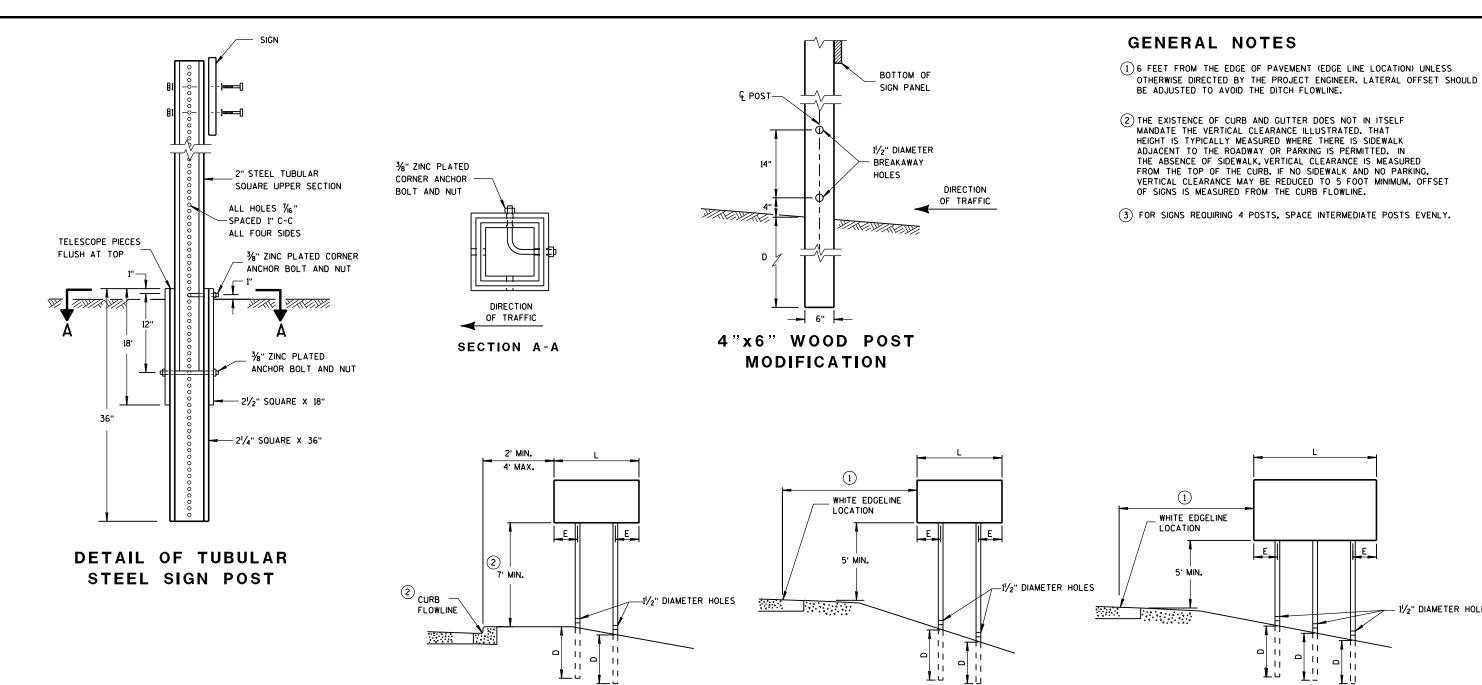


PAVEMENT MARKING









TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EOUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SO. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF		
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.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 TRANSPORTATION

-11

D D 15 D ∞

6

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6

- 11/2" DIAMETER HOLES

Ω Ω

D

15

D

38-2b

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D. OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - $\frac{9}{32}$ " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SO. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

S.D.D. 15

2 b

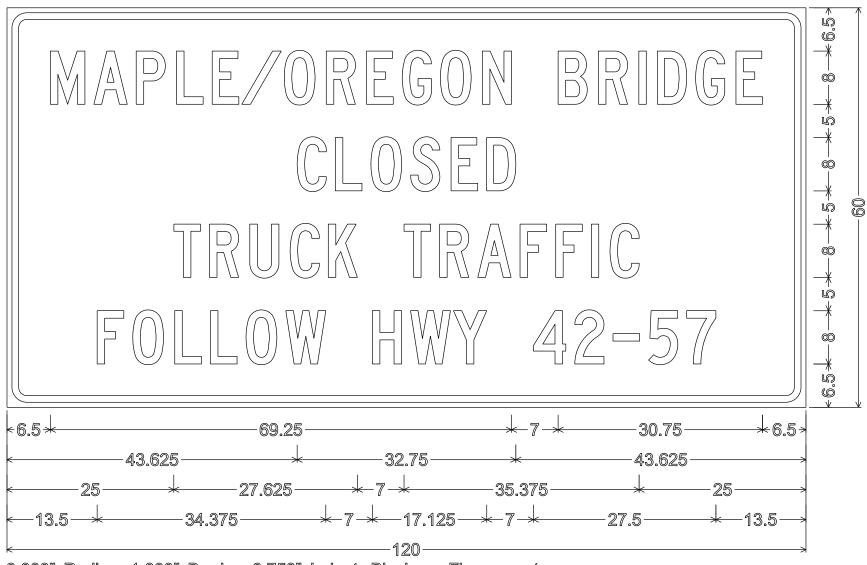
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- 1. Fixed Message Type II Signs Type F Reflective
- 2. Color:

Background - Orange Message - Black

3. Message Series - C



3.000" Radius, 1.000" Border, 0.750" Indent, Black on Fluorescent orange;

PROJECT NO: 4997-05-71 HWY: LOCAL HWY COUNTY: DOOR TEMPORARY SIGNING SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_d3_3151a419FMS.dgn

PLOT DATE: 7-MAY-2019 4:17

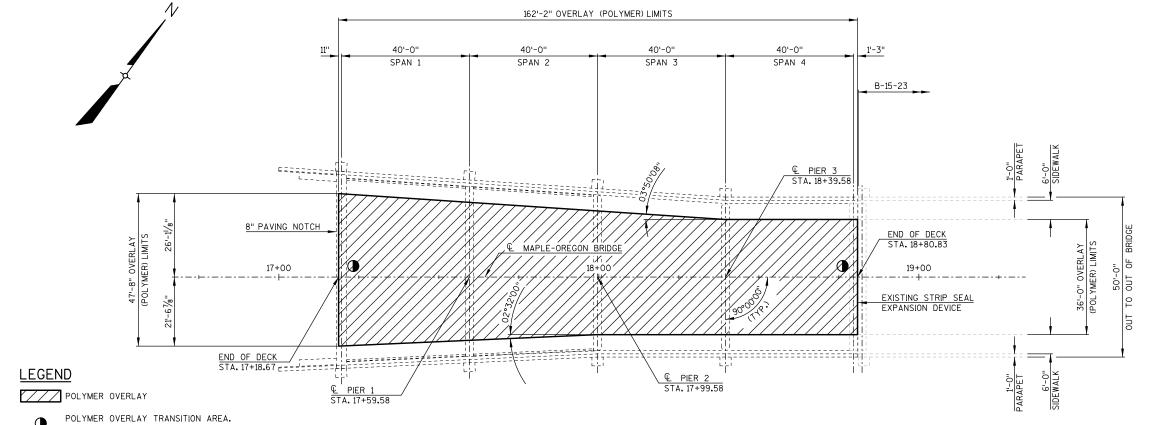
PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

Ε

4997-05-71



DESIGN DATA

LIVE LOAD:

DESIGN LOADING: INVENTORY RATING: HS-20 HS-25 OPERATING RATING: HS-43

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

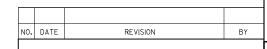
MATERIAL PROPERTIES: CONCRETE MASONRY

DECK PATCHING - f'c = 4,000 PSI

TRAFFIC DATA

A.D.T. (2017) = 7,200 A.D.T. (2045) = N/A R.D.S. = 30 MPH

131, PRO MICHAEL A. DELEMONT E-42185 FRANKLIN,



AECOM

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

8

ACCEPTED William C. Dichistr 08/26/19
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-15-19

MAPLE-OREGON BRIDGE OVER STURGEON BAY OWN/CITY/VILLAGE STURGEON_BAY

DESIGNED AJC DESIGN MJA DRAWN DNJ PLANS MAD

SHEET 1 OF 2

GENERAL PLAN AND ELEVATION

DOOR DESIGN SPEC. REHABILITATION N/A

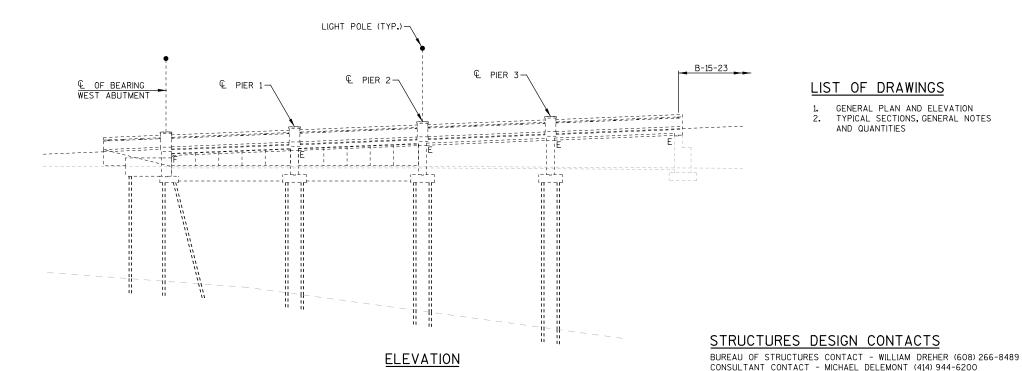
TYPICAL AT JOINTS AND BREAKS.

rER DRIVER: \$\$...printerdr TABLE: \$\$...pentable...\$\$

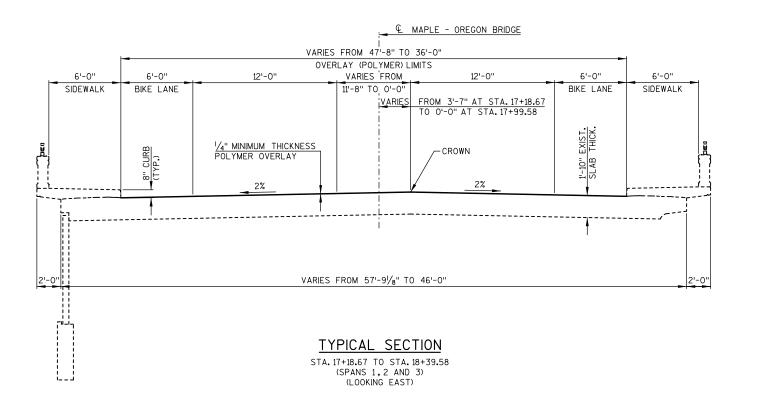
PRINT

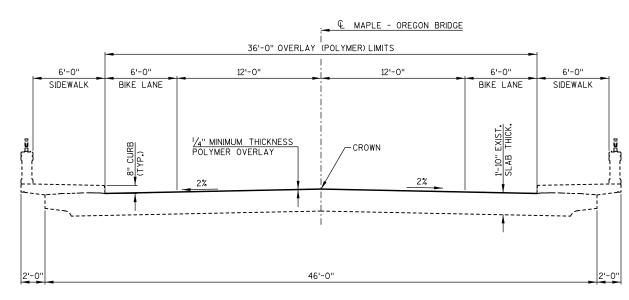
8

<u>PLAN</u> 22" REINFORCED CONCRETE SLAB



4997-05-71





TYPICAL SECTION

STA. 18+39.58 TO STA. 18+80.83 (SPAN 4 ONLY) (LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

8

BID ITEM NUMBER	BID ITEM	UNIT	TOTALS
509.0301	PREPARATION DECKS TYPE 1	SY	22
509.0302	PREPARATION DECKS TYPE 2	SY	9
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	215
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	3
509 . 5100 . S	POLYMER OVERLAY	SY	718

GENERAL NOTES

THE PROPOSED WORK INCLUDES A POLYMER OVERLAY OF THE BRIDGE DECK.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY."

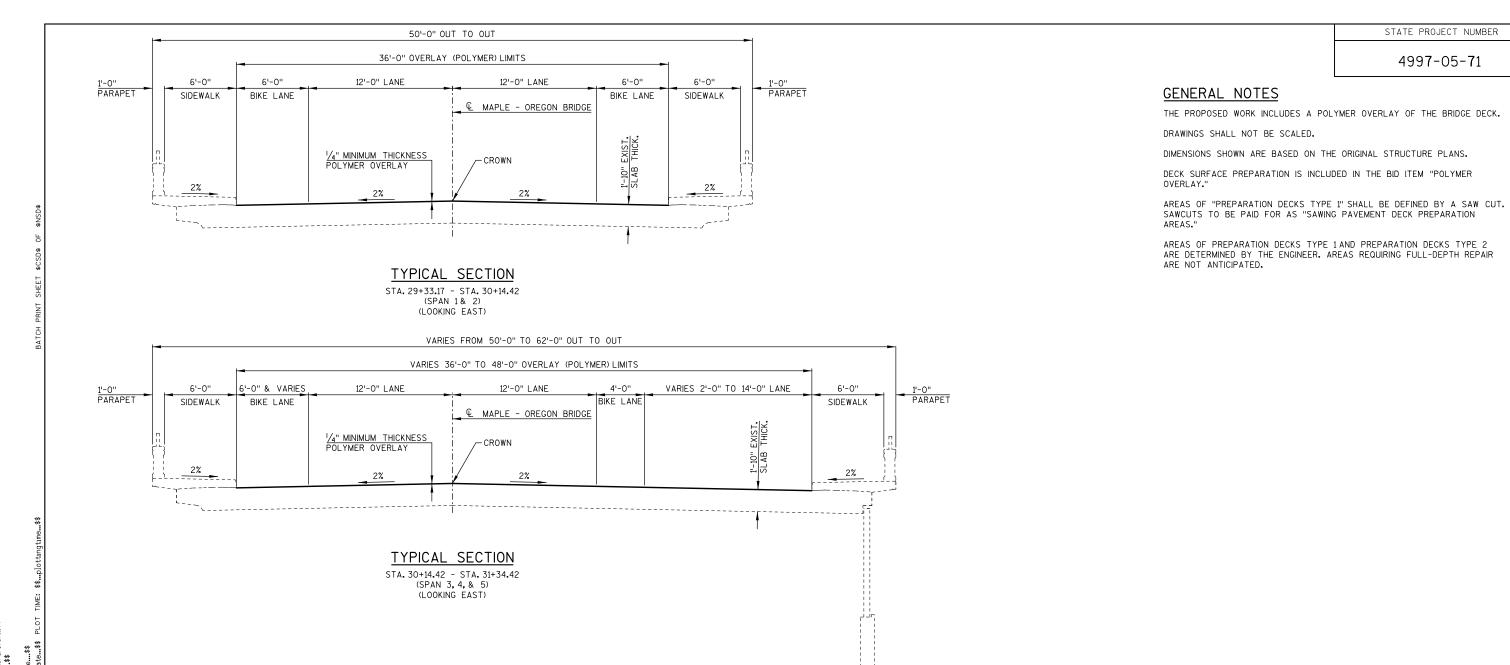
AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAW CUT. SAWCUTS TO BE PAID FOR AS "SAWING PAVEMENT DECK PREPARATION AREAS."

AREAS OF PREPARATION DECKS TYPE 1AND PREPARATION DECKS TYPE 2 ARE DETERMINED BY THE ENGINEER. AREAS REQUIRING FULL-DEPTH REPAIR ARE NOT ANTICIPATED.

O. DATE								
	E REVISION							
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
S	l5-1	9						
	DR BY	AWN	DNJ	PLANS CK'D.	MAD			
TYPIC	AL SECTION		SHE	ET 2	OF 2			
OFN	- H / I NI I	F >						
ITPIC	AL SECTION		SHE	ET 2	OF 2			

rER DRIVER: \$\$...printerdr TABLE: \$\$...pentable...\$\$

PRINT



62'-0" OUT TO OUT

48'-0" OVERLAY (POLYMER) LIMITS

12'-0" LANE

€ MAPLE - OREGON BRIDGE

- CROWN

TYPICAL SECTION
STA. 31+34.42 - STA. 31+75.33
(SPAN 6)

(LOOKING EAST)

4'-0"

BIKE LANE

14'-0" LANE

1-10" EXIST. SLAB THICK. 6'-0"

SIDEWALK

2%

1'-0" PARAPET

6'-0"

SIDEWALK

2%

1'-0'' PARAPET

8

6'-0"

BIKE LANE

12'-0" LANE

1/4" MINIMUM THICKNESS POLYMER OVERLAY

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	TOTALS
509.0301	PREPARATION DECKS TYPE 1	SY	33
509.0302	PREPARATION DECKS TYPE 2	SY	13
509 . 0310 . S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	333
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	5
509 . 5100 . S	POLYMER OVERLAY	SY	1,110

NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-15-20

DRAWN DNJ PLANS CKD. MAD

TYPICAL SECTIONS, SHEET 2 OF 2

GENERAL NOTES
AND QUANTITIES

1057'-4" BACK TO BACK OF PIERS B-15-19

467'-8" OVERLAY (POLYMER) LIMITS (PRESTRESSED CONC. SPANS) 3'-11" UNIT 1 - 463'-9' SPANS 1 - 5 92'-41/2 93'-0" 93'-0" 93'-0" 92'-41/2' SPAN 1 SPAN 2 SPAN 5 SPAN 3 SPAN 4 BRG. W. APPROACH PIER 4 PIER 5 STA. 20+67.63 STA. 21+60.63 STA. 22+53.63 STA. 19+74.63 SPAN STA. 23+46.00 STA. 18+82.25 \triangleleft

LEGEND

 \Rightarrow

POLYMER OVERLAY

POLYMER OVERLAY TRANSITION AREA. TYPICAL AT JOINTS AND BREAKS. INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

12'-3"

OVERLAY (POLYMER) LIMITS

REMOVE 1/6" (±1/6") CONSTANT THICKNESS OVER THE WEST BASCULE LEAF, AND %6" (±1/16") CONSTANT THICKNESS OVER THE EAST BASCULE LEAF. SEE "REMOVAL DETAIL - BASCULE SPANS" ON SHEET 3 FOR DETAILS.

EXIST. SHEET PILE

DOCK WALL

FLOOR DRAIN TYPE GC (TYP.).
PROTECT OPENINGS FROM DEBRIS

ENTRY DURING CONSTRUCTION.

LIGHT AND TRAFFIC LIGHT AND TRAFFIC SIGNAL POLE SIGNAL POLE B-15-19 WEST BASCULE AST BASCULE BRG. EAST € PIER 5 APPROACH SPAN APPROACH SPAN - E PIER 8 PIER (#6) € PIER 4-€ PIER 3¬ © PIER 2-€ PIER 1 ______ SEMI EXP EXP 54W" PRESTRESSED \ 54W" PRESTRESSED EXIST. SHEET PILE GIRDER (TYP.) processor and a GIRDER (TYP.) DOCK WALL

308'-0" OVERLAY (POLYMER) LIMITS (STEEL BASCULE SPAN)

115'-9"

ROLL PIER 6

(WHEN CLOSED:

STA. 23+84.25

G2222222

TRAFFIC WARNING

TRAFFIC SIGNAL

ON MAST ARM

GATE (TYP.)

PILASTER AND LIGHT POLE

OVERLOOK (TYP.)

EACH SIDE AT PIERS (TYP.)

UNIT 2 - 308'-0"

SPAN 6 (BASCULE SPAN)

♠ CHANNEL

MAPLE-OREGON BRIDGE

214'-6" LIMITS OF LIGHTWEIGHT CONCRETE*

274'-61/2" LIMITS OF DIAMOND GRINDING BASCULE SPAN

PLAN

ELEVATION

115'-9"

LIST OF DRAWINGS

ÉR:

PEN

8

- 1. GENERAL PLAN AND ELEVATION 2. TYPICAL SECTIONS
- 3. POLYMER OVERLAY DETAILS 4. EAST LEAF COUNTERWEIGHT SECTIONS 5. WEST LEAF COUNTERWEIGHT SECTIONS

STRUCTURE TYPE

SPANS 1-5 & 7-9 - 54"W PRESTRESSED CONCRETE GIRDER SPAN 6 - WELDED STEEL PLATE GIRDER (BASCULE)

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
509.0301	PREPARATION DECKS TYPE 1	SY	126
509.0302	PREPARATION DECKS TYPE 2	SY	50
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	1,261
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	12
509 . 5100 . S	POLYMER OVERLAY	SY	4,203
SPV.0035.01	CONCRETE MASONRY LIGHTWEIGHT DECK REPAIR	CY	2
SPV.0105.01	COUNTERWEIGHT CALCULATIONS AND SPAN BALANCING	LS	1
SPV.0180.01	DIAMOND GRINDING BASCULE SPAN	SY	1,106

LIVE LOAD:

DESIGN LOAD: HS-20 INVENTORY RATING: HS-21 OPERATING RATING: HS-36 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS MATERIAL PROPERTIES:

CONCRETE MASONRY DECK PATCHING

DESIGN DATA

f'c = 4,000 PSI LIGHTWEIGHT DECK PATCHING - f'c = 4,000 PSI

GENERAL NOTES

THE PROPOSED WORK INCLUDES A POLYMER OVERLAY OF THE BRIDGE DECK AND MODIFICATIONS TO CORRECT BASCULE SPAN BALANCE.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE COST FOR CONCRETE REMOVAL ON THE BASCULE SPAN IS INCLUDED IN THE BID ITEM "DIAMOND GRINDING BASCULE SPAN".

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAW CUT. SAWCUTS TO BE PAID FOR AS "SAWING PAVEMENT DECK PREPARATION ARFAS."

AREAS OF PREPARATION DECKS TYPE 1 AND PREPARATION DECKS TYPE 2 ARE DETERMINED BY THE ENGINEER. AREAS REQUIRING FULL-DEPTH REPAIR ARE NOT ANTICIPATED.

TRAFFIC DATA

A.D.T.(2017) = 7,200A.D.T.(2045) = N/AR.D.S. = 30 MPH



STRUCTURES DESIGN CONTACTS

BUREAU OF STRUCTURES CONTACT - WILLIAM DREHER (608) 266-8489 CONSULTANT CONTACT - MICHAEL DELEMONT (414) 944-6200

92'-41/2'

SPAN 7

SPAN STA. 26+54.00

ROLL PIER 7

MID MAST LIGHT AT

25' ¢ PROTECTION

CELL (TYP.)

MID MAST LIGHT AT BASCULE PIER (TYP.)

BASCULE PIER (TYP.)

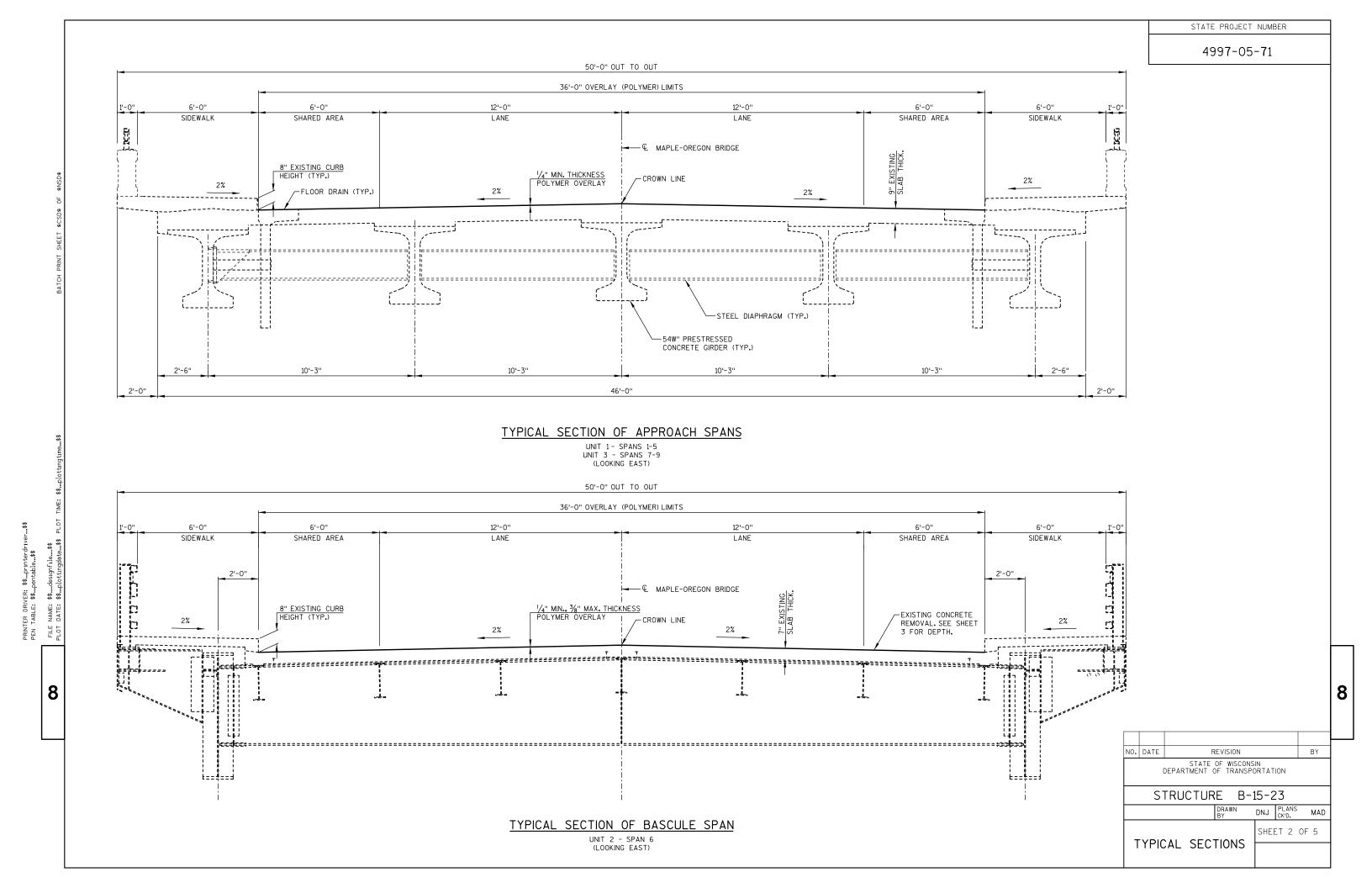
(WHEN CLOSED)

STA. 26+15.75

BRG. E. APPROACH

EXP. JT. (1

AND ELEVATION



TRANSITION DETAIL AT REAR BREAK

REMOVAL DETAIL - BASCULE SPANS

← FLOOR BEAM 1

REMOVE A CONSTANT $\frac{1}{16}$ " ($\pm \frac{1}{16}$ ")

CONCRETE THICKNESS OVER THE WEST BASCULE LEAF.

-PROVIDE TRANSITION ONLY IF NEEDED-

© CENTER BREAK & © BASCULE SPAN

REMOVE A CONSTANT $\%_6$ " ($\pm \%_6$ ")

CONCRETE THICKNESS OVER THE EAST BASCULE LEAF.

1/4" MINIMUM TO 3/8" MAXIMUM

POLYMER OVERLAY

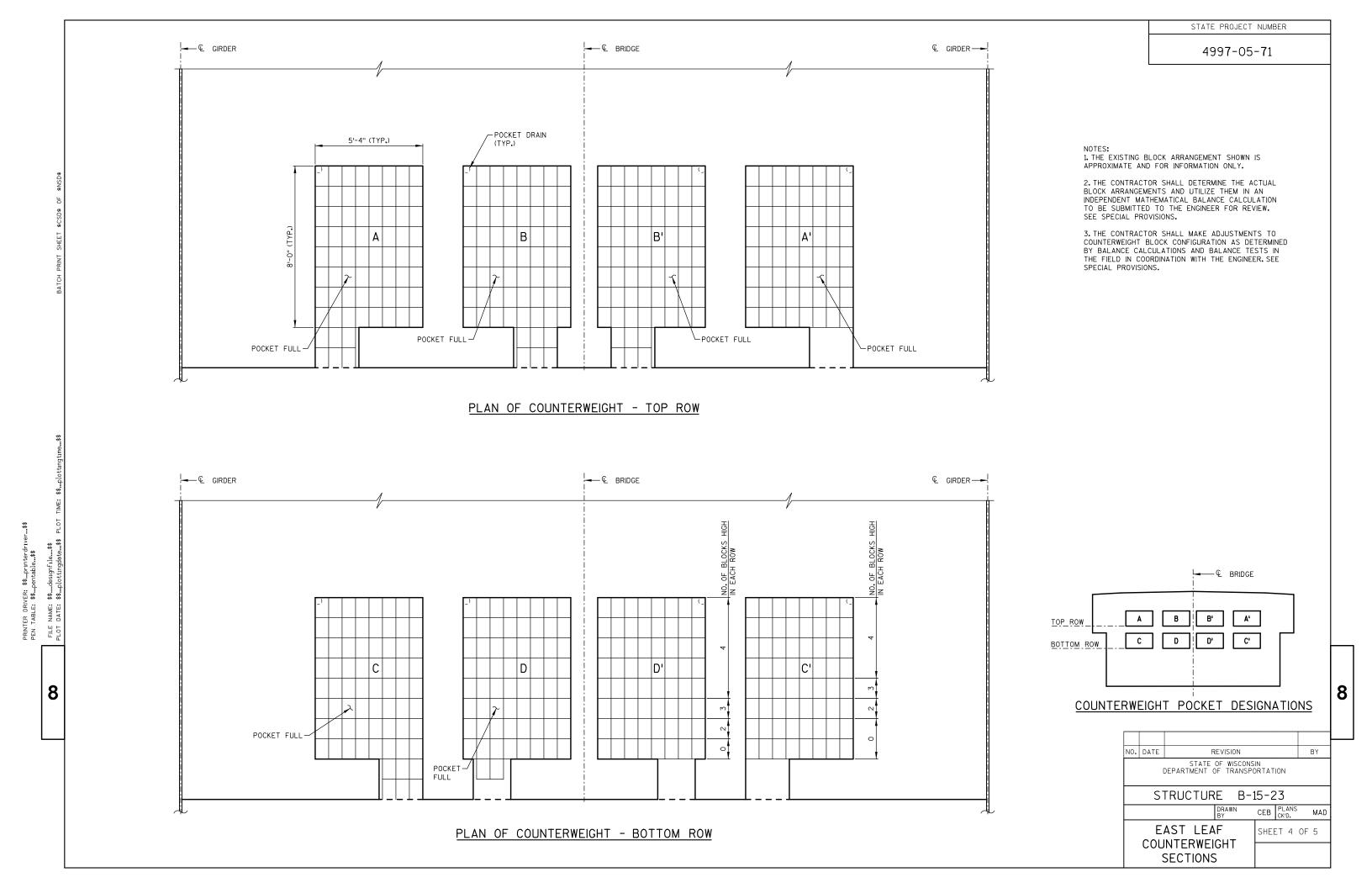
MOVABLE BASCULE SPAN

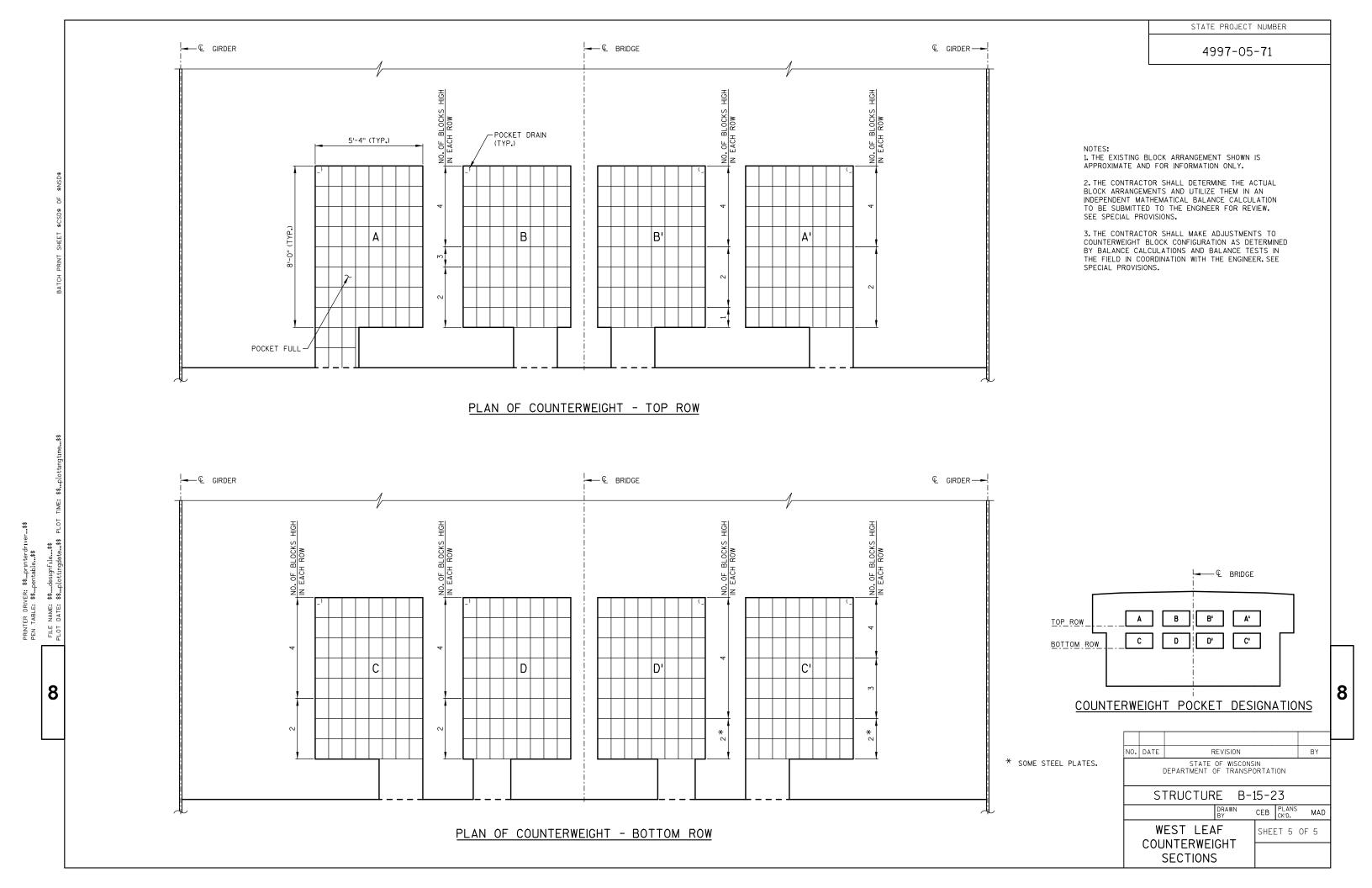
REMOVE EXISTING CONCRETE DECK TO DEPTH SHOWN ON REMOVAL DETAIL ON THIS SHEET.

-PROVIDE TRANSITION ONLY IF NEEDED

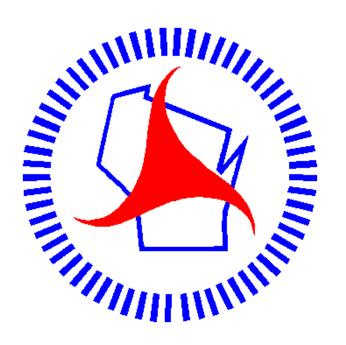
DRAWN DNJ PLANS MAD SHEET 3 OF 5 POLYMER OVERLAY DETAILS

1/4" MINIMUM TO 3%" MAXIMUM POLYMER OVERLAY (TYP. BOTH BASCULE SPAN LEAVES)





Notes



Wisconsin Department of Transportation

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