#### MAY 2013 ORDER OF SHEETS

#### Section No. 1 Title

Typical Sections and Details Section No. 2 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

TOTAL SHEETS = 22

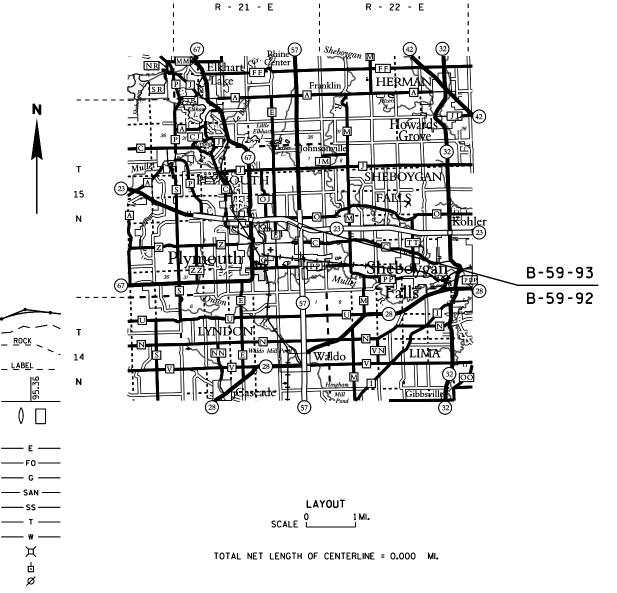


## STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY REHABILITATION-MAINTENANCE PROJECT

PLYMOUTH - SHEBOYGAN STH 57 BRIDGES B-59-92 AND B-59-93 **STH 23** SHEBOYGAN COUNTY

> STATE PROJECT NUMBER 1440-22-60



FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 1440-22-60

#### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor M JANKE Designer P BRAUER Project Manager Regional Examiner R ROOYAKKERS Regional Supervisor C.O. Examiner

CONVENTIONAL SYMBOLS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

CORPORATE LIMITS

PROPERTY LINE

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

(Box or Pipe)

MARSH AREA

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

LOT LINE

PLAN

PROFILE

GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

ELECTRIC

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

STORM SEWER TELEPHONE WATER

POWER POLE

GRADE ELEVATION

MARSH OR ROCK PROFILE

CULVERT (Profile View)

(To be noted as such)

2

GENERAL NOTES

THERE ARE NO UTILITY ADJUSTMENTS NECESSARY TO ACCOMMODATE THE WORK UNDER THIS PROJECT.

UTILITIES

PLYMOUTH UTILITIES
JAMES PETERSON
900 CTH PP
PO Box 277
PLYMOUTH WI 53073-0277
920-893-1471 OFFICE
920-946-1953 CELL
JPETERSON@PLYMOUTHUTILTIES.COM

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

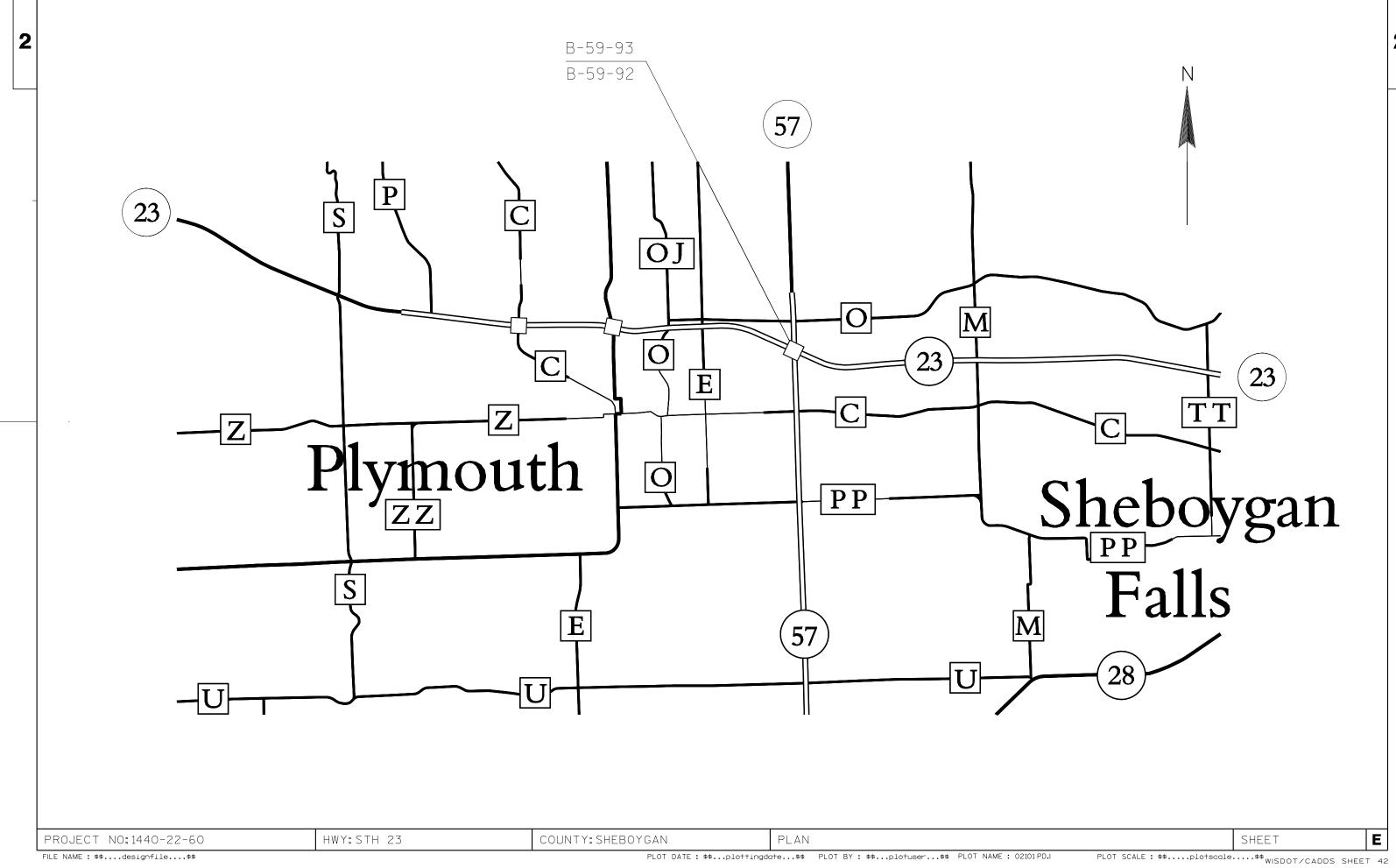
2

DNR AREA LIAISON

JOANNE KLINE
DEPARTMENT OF NATURAL RESOURCES
2300 N DR MARTIN LUTHER KING JR DRIVE
MILWAUKEE. WI 53212-3218
414-263-8756
JOANNE.KLINE@WISCONSIN.GOV

PROJECT NO:1440-22-60 HWY:STH 23 COUNTY:SHEBOYGAN GENERAL NOTES SHEET **E** 

FILE NAME : F:\d3\_144022\020101\_gn.dgn PLOT NAME : 020101 gn.l PLOT SCALE : 10.144928:1 WISDOT/CADDS SHEET 42



MAR13	E S	TIMATE	E OF QUAN	
ITEM	ITEM DESCRIPTION	UNI T	TOTAL	1440-22-60 QUANTI TY
		LS	1. 000	1. 000
	(STRUCTURE) 01. B-59-92			
517. 1800. S		LS	1. 000	1. 000
517 4500 9		ıs	1 000	1. 000
317. 4300. 0		LJ	1.000	1.000
	(STRUCTURE) 01. B-59-92			
517. 4500. S		LS	1.000	1.000
F17 (001 C		FACIL	1 000	1 000
517. 6001. 3	PURTABLE DECUNTAMINATION FACILITY	EACH	1.000	1. 000
603. 8000	CONCRETE BARRIER TEMPORARY PRECAST	LF	1, 040. 000	1, 040. 000
	DELI VERED			
603. 8125		LF	1, 040. 000	1, 040. 000
(10, 1000		FACIL	1 000	1 000
				1. 000 1. 000
				1. 000
010.0100	110 110 00111101 (1 100201) 01: 1110 22 00		1.000	1.000
643.0300	TRAFFIC CONTROL DRUMS	DAY	5, 204. 000	5, 204. 000
643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	48. 000	48. 000
				96.000
				816. 000
643. 0800	IKAFFIC CUNIKUL AKKUW BUARDS	DAY	284.000	284. 000
643. 0900	TRAFFIC CONTROL SIGNS	DAY	1, 402. 000	1, 402. 000
643. 1050	TRAFFIC CONTROL SIGNS PCMS	DAY	14.000	14. 000
646. 0106	PAVEMENT MARKING EPOXY 4-INCH	LF	450.000	450.000
646.0600	REMOVING PAVEMENT MARKINGS	LF	5, 300. 000	5, 300. 000
649. 0400		LF	450. 000	450. 000
	IAPE 4-INCH			
	1TEM 517. 1800. S 517. 1800. S 517. 4500. S 517. 4500. S 517. 4500. S 517. 6001. S 603. 8000 603. 8125 619. 1000 642. 5001 643. 0100 643. 0420 643. 0705 643. 0705 643. 0715 643. 0800 643. 0900 643. 1050 646. 0106	ITEM ITEM DESCRIPTION 517. 1800. S STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 01. B-59-92 517. 1800. S STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 02. B-59-93 517. 4500. S NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 01. B-59-92 517. 4500. S NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 02. B-59-93 517. 4500. S NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 02. B-59-93 517. 6001. S PORTABLE DECONTAMINATION FACILITY  603. 8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED 603. 8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED 619. 1000 MOBILIZATION 642. 5001 FIELD OFFICE TYPE B 643. 0100 TRAFFIC CONTROL (PROJECT) 01. 1440-22-60 643. 0300 TRAFFIC CONTROL DRUMS 643. 0420 TRAFFIC CONTROL DRUMS 643. 0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A 643. 0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C 643. 0800 TRAFFIC CONTROL ARROW BOARDS  643. 0900 TRAFFIC CONTROL SIGNS 643. 1050 TRAFFIC CONTROL SIGNS 643. 1050 TRAFFIC CONTROL SIGNS PCMS 646. 0106 PAVEMENT MARKING EPOXY 4-INCH 646. 0600 REMOVING PAVEMENT MARKINGS	ITEM ITEM DESCRIPTION UNIT 517. 1800. S STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 01. B-59-92 517. 1800. S STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 02. B-59-93 517. 4500. S NEGATIVE PRESSURE CONTAINMENT AND LS COLLECTION OF WASTE MATERIALS (STRUCTURE) 01. B-59-92 517. 4500. S NEGATIVE PRESSURE CONTAINMENT AND LS COLLECTION OF WASTE MATERIALS (STRUCTURE) 02. B-59-93 517. 4500. S NEGATIVE PRESSURE CONTAINMENT AND LS COLLECTION OF WASTE MATERIALS (STRUCTURE) 02. B-59-93 517. 6001. S PORTABLE DECONTAMINATION FACILITY EACH 603. 8000 CONCRETE BARRIER TEMPORARY PRECAST LF DELIVERED 603. 8125 CONCRETE BARRIER TEMPORARY PRECAST LF INSTALLED 619. 1000 MOBILIZATION EACH 642. 5001 FIELD OFFICE TYPE B EACH 643. 0100 TRAFFIC CONTROL (PROJECT) 01. 1440-22-60 EACH 643. 0300 TRAFFIC CONTROL DRUMS DAY 643. 0420 TRAFFIC CONTROL DRUMS DAY 643. 0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 643. 0705 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY 643. 0705 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY 643. 0800 TRAFFIC CONTROL ARROW BOARDS DAY 643. 0900 TRAFFIC CONTROL SIGNS DAY 643. 1050 TRAFFIC CONTROL SIGNS PCMS DAY 646. 0106 PAVEMENT MARKING BEPOXY 4-INCH LF 646. 0600 REMOVING PAVEMENT MARKING REMOVABLE LF	ITEM

PORTABLE DECONTAMINATION FACILITY							
		517.6001.S.01					
CATEGORY	LOCATION	EACH					
0010	B-59-92, STH 23 EB	0.5					
	SUBTOTAL	0.5					
0020	B-59-93, STH 23 WB	0.5					
	SUBTOTAL	0.5					

TOTAL 1

<u>MOBILIZATION</u>							
		<u>619.1000</u>					
CATEGORY	LOCATION	EACH					
0010	B-59-92, STH 23 EB	0.5					
	SUBTOTAL	0.5					
0020	B-59-93, STH 23 WB	0.5					
	SUBTOTAL	0.5					

TOTAL

FIELD OFFICE, TYPE B							
		<u>642.5001</u>					
CATEGORY	LOCATION	EACH					
0010	B-59-92, STH 23 EB	0.5					
	SUBTOTAL	0.5					
0020	B-59-93, STH 23 WB	0.5					
	SUBTOTAL	0.5					

TOTAL

CONCRETE BARRIER TEMPORARY PRECAST							
OATEOODY	LOCATION	603.8000	603.8125	DEMARKO			
CATEGORY 0010	LOCATION STH 57 NB INSIDE LANE	DELIVERED 194	INSTALLED 194	REMARKS B-59-92			
0010	STH 57 NB OUTSIDE LANE	326	326	B-59-92			
	SUBTOTAL	520	520				
0020	STH 57 SB OUTSIDE LANE	326	326	B-59-93			
0020	STH 57 SB INSIDE LANE	194	194	B-59-93			
	SUBTOTAL	520	520				

1040

TOTAL

 TRAFFIC CONTROL (1440-22-60)

 643.0100

 CATEGORY
 LOCATION
 EACH

 0010
 B-59-92, STH 23 EB
 0.5

 SUBTOTAL
 0.5

 0020
 B-59-93, STH 23 WB
 0.5

 SUBTOTAL
 0.5

TOTAL

1040

STATE PROJECT NO: 1440-22-60 HWY: STH 23 COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES SHEET NO: E

FILE NAME : Q:\MISCQUANTITIES\1440-22-60\ENG.SHEET PLOT DATE : PLOT BY : DOTM1J PLOT NAME : \_\_\_\_\_\_ ORG DATE : \_\_\_\_\_ ORIGINATOR : NE REGION PLOT SCALE : 1:1

TRAFFIC CONTROL SUMMARY																
		APPROX.	643.0300 643.0420 BARRICADES DRUMS TYPE III		CADES	643.0705 643.0715 WARNING LIGHTS WARNING LIGHTYPE A TYPE C		LIGHTS	643.0800 ARROW BOARDS		643.		643.1 SIG PCN	NS		
		SERVICE	NO. IN		NO. IN		NO. IN		NO. IN	_	NO. IN		NO. IN	-	NO. IN	
CATEGORY	LOCATION	DAYS	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS	SERVICE	DAYS
0010	STH 23 EB RT SHOULDER	47	15	705		0		0		0	1	47	4	188		0
0010	STH 23 EB LT SHOULDER	47	15	705		0		0		0	1	47	4	188		0
0010	STH 57	7	4	28		0		0		0		0		0	1	7
0010	STH 57 NB INSIDE LANE	11	55	605	1	11	2	22	17	187	2	22	13	143		0
0010	STH 57 NB OUTSIDE LANE	13	43	559	1	13	2	26	17	221	2	26	14	182		0
		SUBTOTAL	-	2602		24		48		408		142		701		7
0020	STH 23 WB RT SHOULDER	47	15	705		0		0		0	1	47	4	188		0
0020	STH 23 WB LT SHOULDER	47	15	705		0		0		0	1	47	4	188		0
0020	STH 57	7	4	28		0		0		0		0		0	1	7
0020	STH 57 SB OUTSIDE LANE	13	43	559	1	13	2	26	17	221	2	26	14	182		0
0020	STH 57 SB INSIDE LANE	11	55	605	1	11	2	22	17	187	2	22	13	143		0
		SUBTOTAL	-	2602		24		48		408		142	1	701		7
		TOTAL	<u>.</u>	5204		48		96		816		284		1402		14

PAVEMENT MARKING								
646.0106 646.0600 649.0400 REMOVING TEMPORARY								
		EPOXY	PAVEMENT	REMOVABLE TAPE				
CATEGORY	LOCATION	4-INCH	MARKINGS	4-INCH	REMARKS			
0010	STH 57 NB	225	1650	225	OUTSIDE LANE CLOSURE			
0010	STH 57 NB		1000		INSIDE LANE CLOSURE			
SUBTOTAL 225 2650 225								
0020	STH 57 SB		1650	225	INSIDE LANE CLOSURE			
0020	STH 57 SB	225	1000		OUTSIDE LANE CLOSURE			
SUBTOTAL 225 2650 225								

5300

450

TOTAL

450

STATE PROJECT NO: 1440-22-60 HWY: STH 23 COUNTY: SHEBOYGAN MISCELLANEOUS QUANTITIES SHEET NO: E

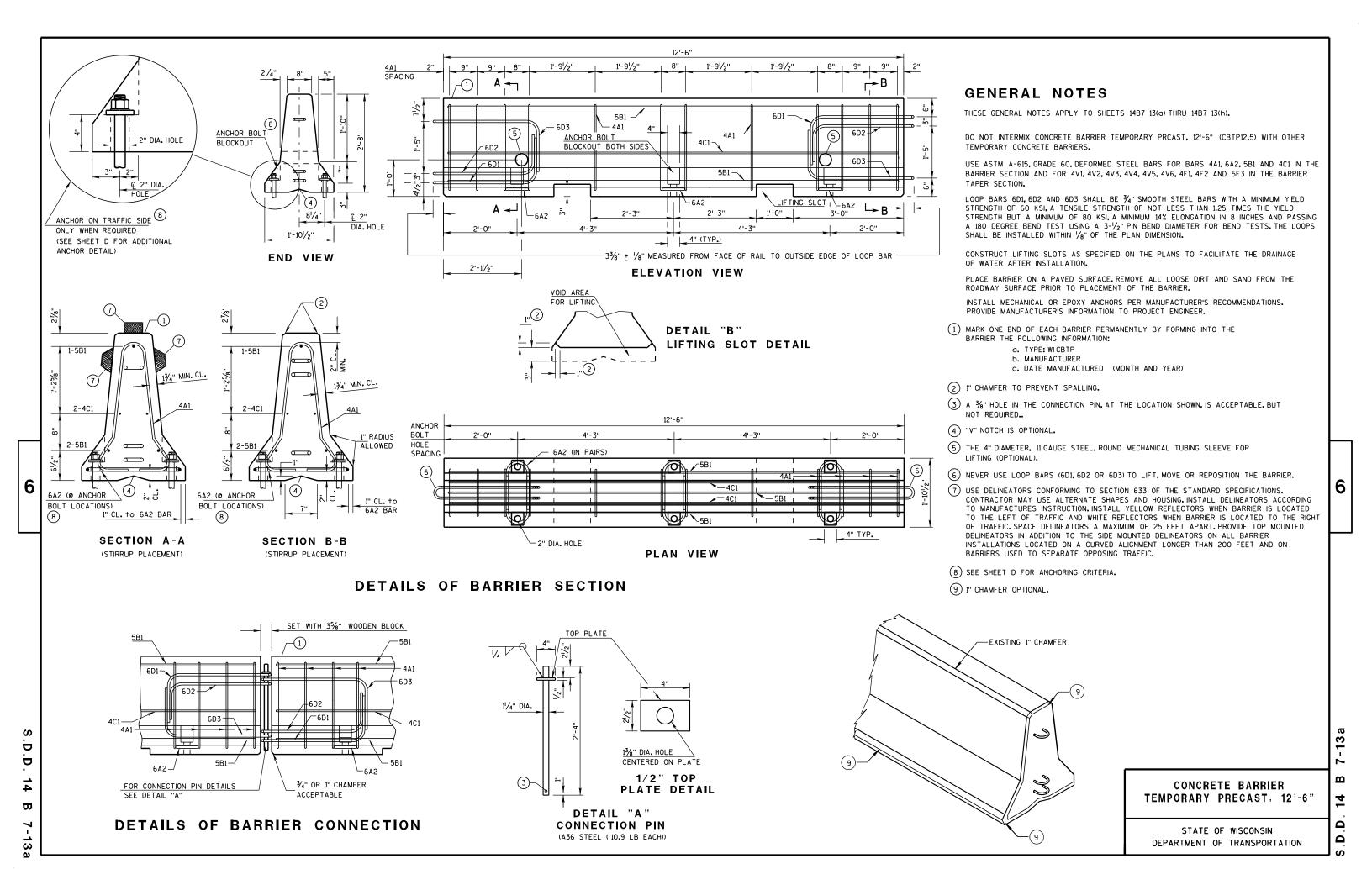
FILE NAME : Q:\MISCQUANTITIES\1440-22-60\ENG.SHEET PLOT DATE : PLOT BY : DOTM1J PLOT NAME : \_\_\_\_\_ ORG DATE : \_\_\_\_\_ ORIGINATOR : NE REGION PLOT SCALE : 1:1

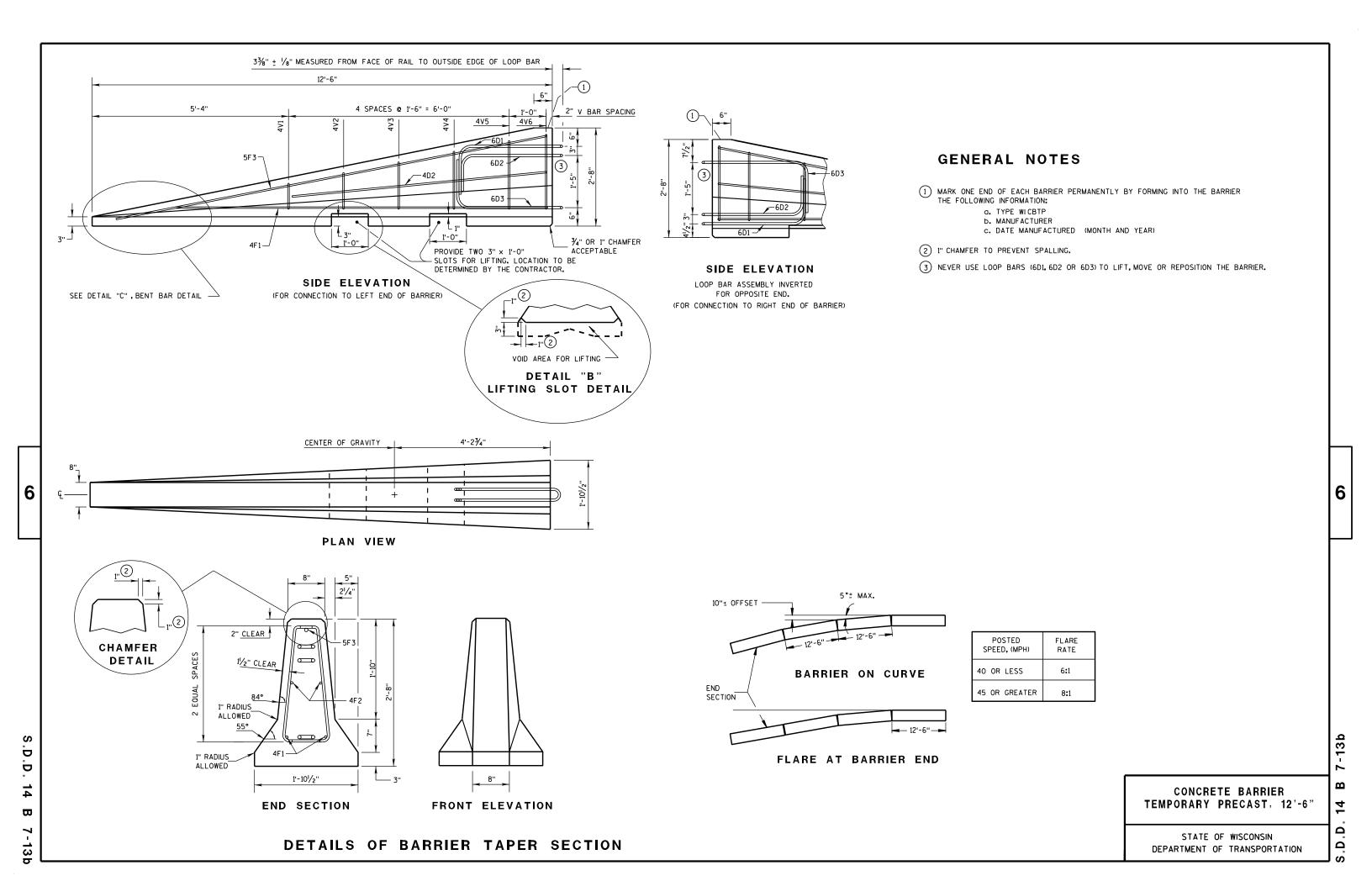
### Standard Detail Drawing List

14B07-13A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
15C08-15A	PAVEMENT MARKING (MAINLINE)
15D03-01	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
15D12-02	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
15D21-01	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-01	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

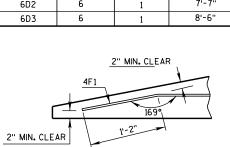
О

\_



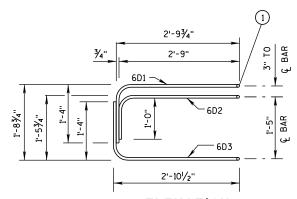


BAR	BAR SIZE	NO. OF BARS	LENGTH FT.				
4V1	4	2	1'-11"				
4V2	4	2	2'-2"				
4V3	4	2	2'-6"				
4V4	4	2	2'-9"				
4V5	4	2	3'-2"				
4V6	4	2	3'-4"				
4F1	4	2	12'-0"				
4F2	4	2	7'-6"				
5F3	5	1	11'-9''				
LOOP ASSEMBLY							
6D1	6	1	8'-5"				
6D2	6	1	7'-7"				
6D3	6	1	8'-6"				

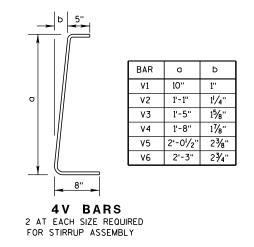


DETAIL "C"

BENT BAR DETAIL





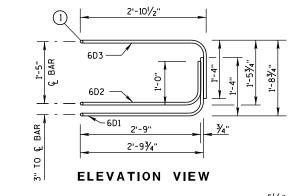


TAPER BARRIER SECTION

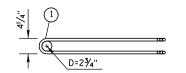
## BARRIER SECTION

**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"
L	OOP AS	SSEMBL	Υ
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

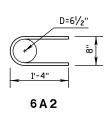


1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

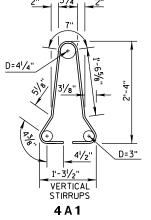


PLAN VIEW LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)



**GENERAL NOTES** 



#### **BARRIER SECTION**

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

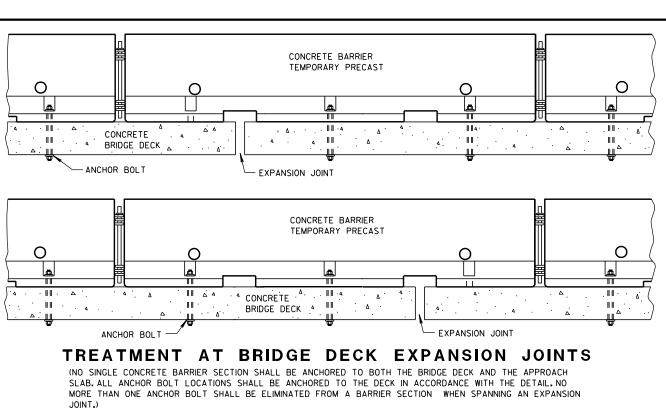
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

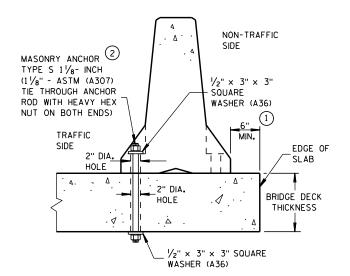
Ð ۵

 $\boldsymbol{\varpi}$ 

Ω

۵





6

Ö

#### THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

CONCRETE BARRIER TEMPORARY PRECAST MASONRY ANCHOR TYPE S 1 1/8- INCH . 🗸  $(1\frac{1}{8}" - ASTM (A307)$ ADHESIVE BONDED ANCHOR NON-TRAFFIC WITH HEAVY HEX NUT SIDE AND 1/2" X 3" X 3" SQUARE WASHER (A36)) TRAFFIC SIDE **EMBEDMENT** ablaBRIDGE DECK, APPROACH SLAB OR CONCRETE PAVEMENT

REMOVABLE ADHESIVE BONDED ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

#### **GENERAL NOTES**

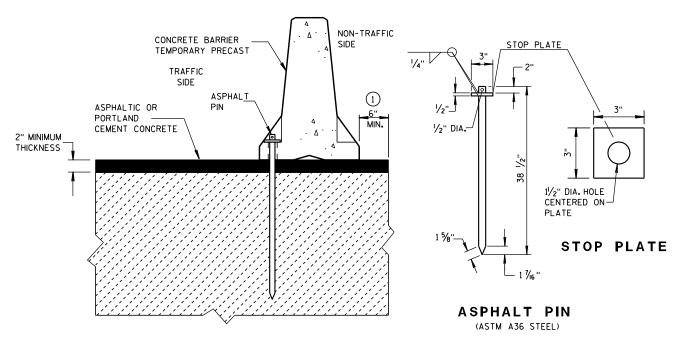
(1) CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF: THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H: 1V. FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H: 1V. FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT. IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

(2) ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

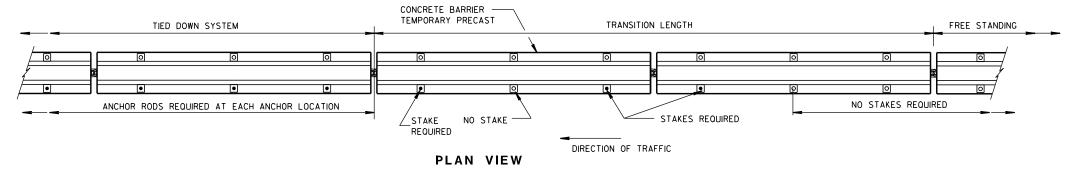
WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1 1/a-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALLANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CON-CRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR EPOXY MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.



#### STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

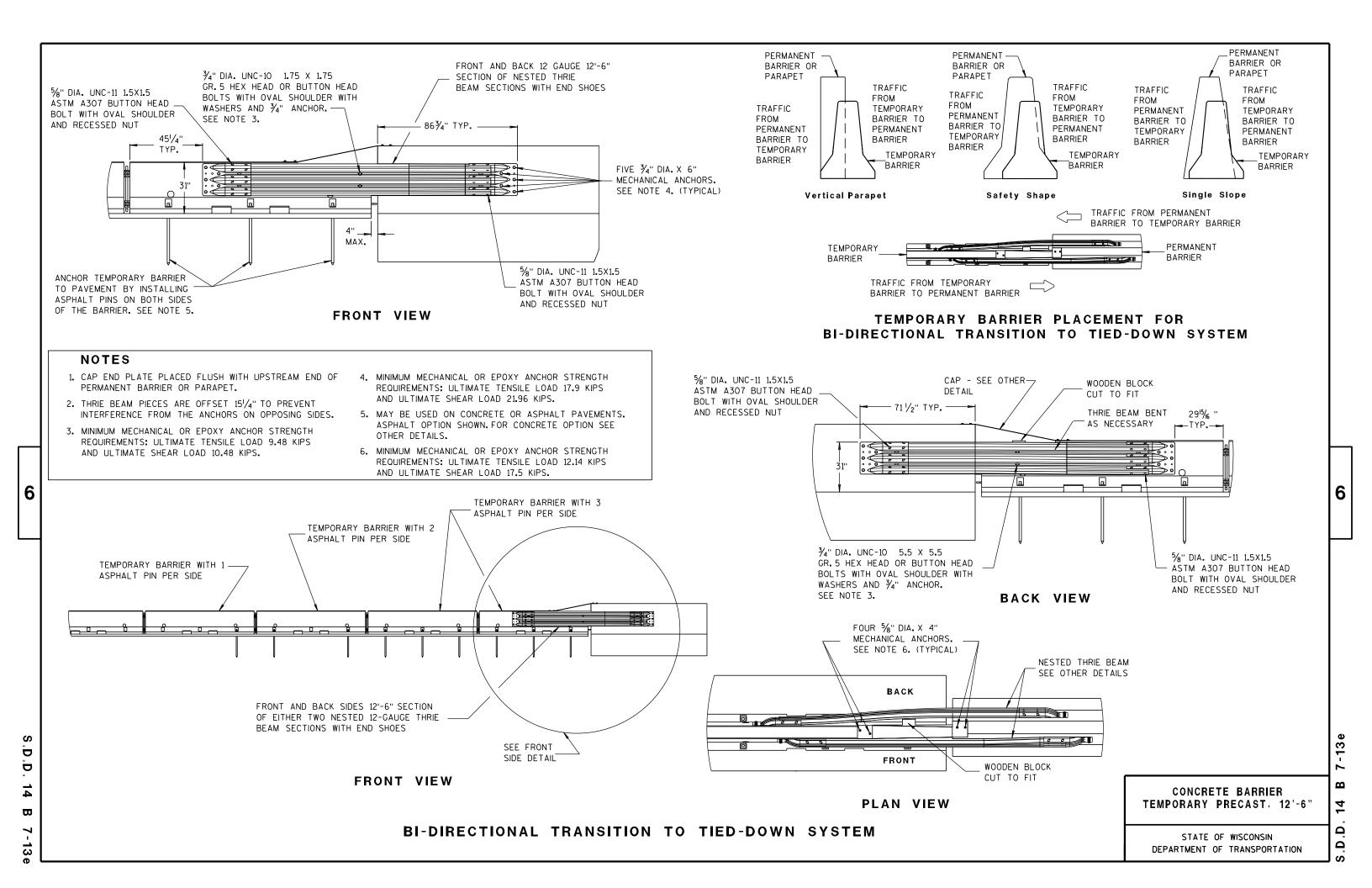
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY, IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

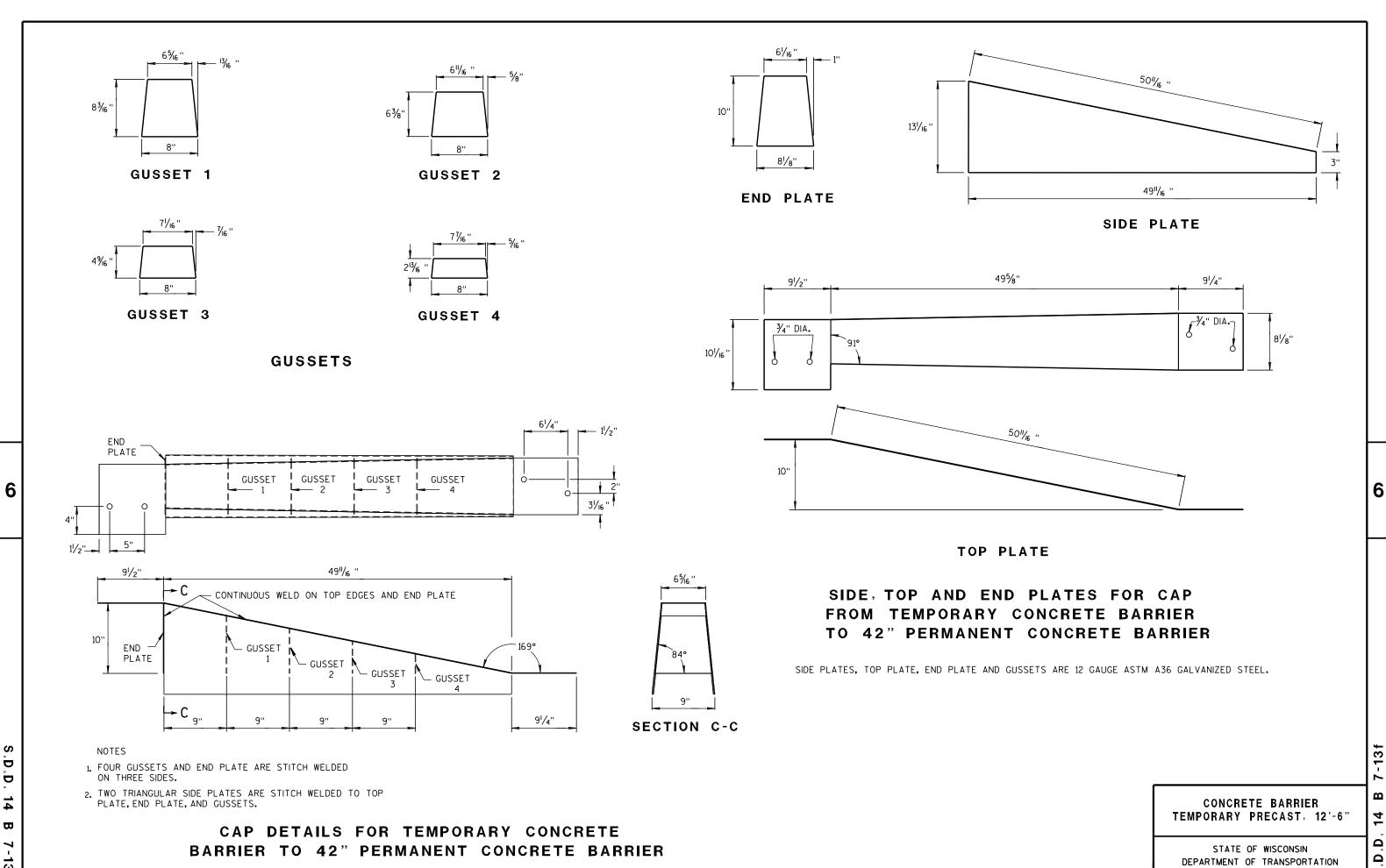
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6'

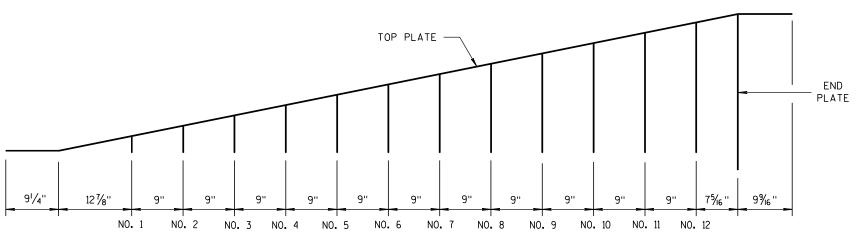
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

 $\mathbf{m}$ 

Ω Ω

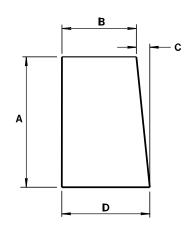






**GUSSET LOCATION** 

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER



**GUSSETS 1 - 12** 

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS									
GUSSET NO.	Α	В	С	D					
1	2 1/8"	73/4"	1/4"	8					
2	4"/16 "	7%6"	1/2"	8					
3	61/2"	73/8"	11/16 ''	81/16 "					
4	85/6"	7¾ <sub>6</sub> "	7/8"	81/16"					
5	101/8"	7''	1 1/16 "	8½ <sub>6</sub> "					
6	11 <sup>15</sup> / <sub>16</sub> ''	6 <sup>13</sup> / <sub>16</sub> "	1 1/4"	81/16"					
7	13¾"	65⁄8''	1 7/6"	81/16"					
8	15% "	6 ⅓ <sub>6</sub> ''	1 % "	81/16 ''					
9	173/8"	6 <sup>1</sup> / <sub>4</sub> "	1 13/16 "	81/16"					
10	193/6"	6½ <sub>6</sub> "	1 15/16 ''	81/16"					
11	21"	57/8"	23/6"	81/16"					
12	2213/16 "	511/16 "	25/6"	81/16"					

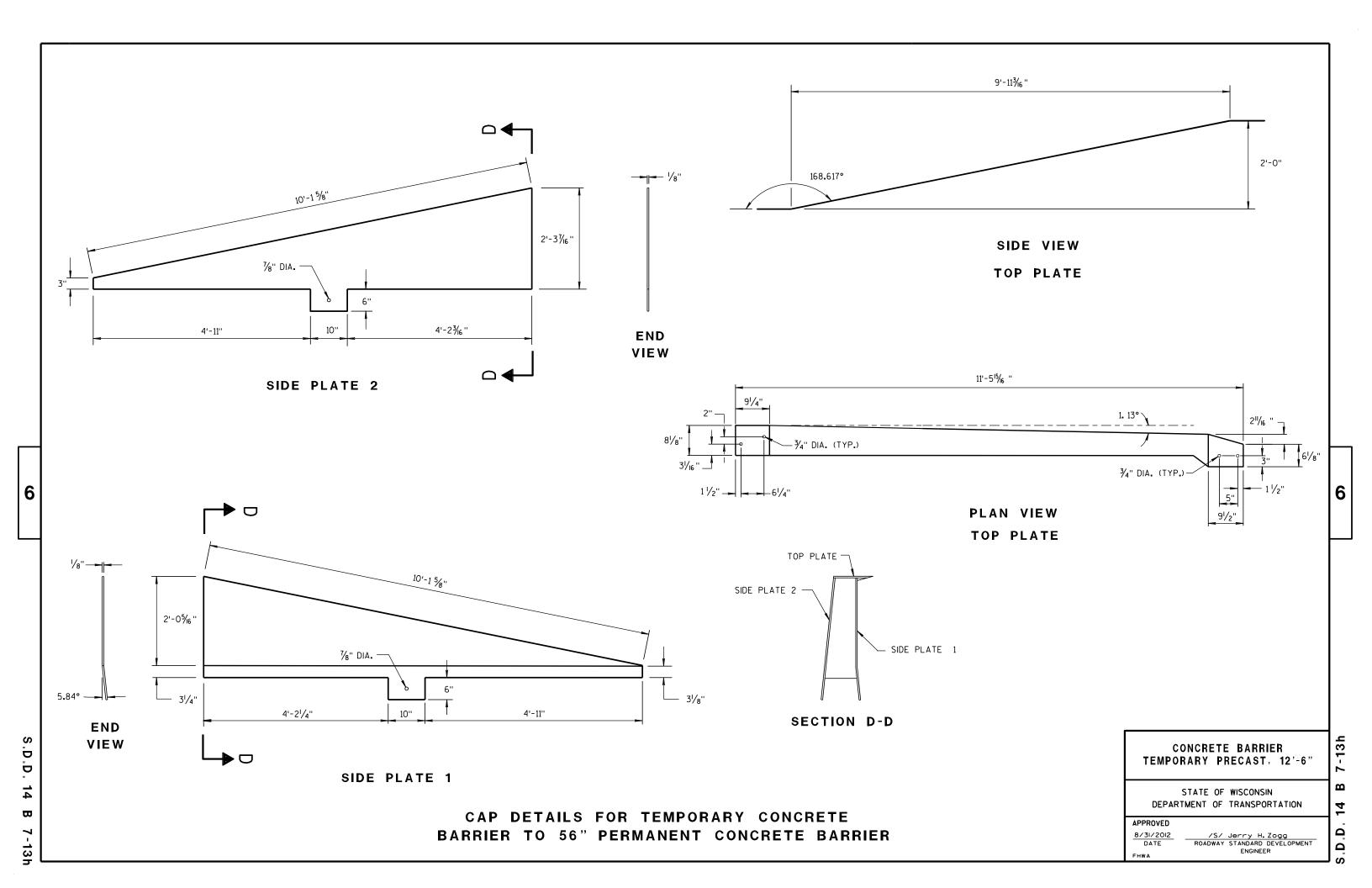
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

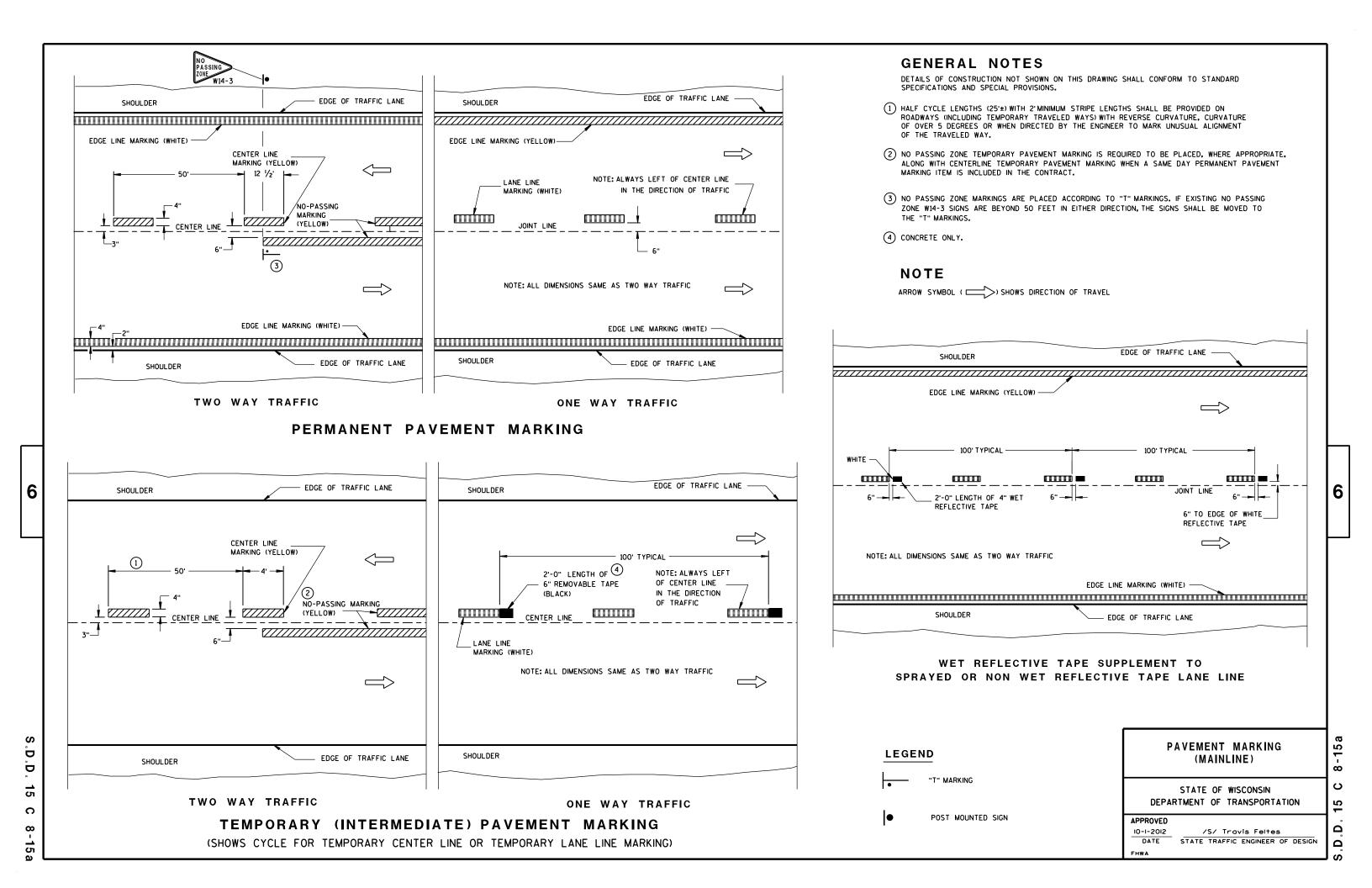
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

٩





#### GENERAL NOTES: THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE. 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 LEGEND ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. POST WITH ATTACHED SIGN "WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE. ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" DRUM WITH WARNING LIGHT (TYPE C) SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. DRUM (1) CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM ARROW BOARD 1500 FEET IN FRONT OF DRUMS. FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, \*-x-\* REMOVING PAVEMENT MARKING THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS. REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN TEMPORARY PRECAST CONCRETE BARRIER 7 CONTINUOUS DAYS AND NIGHTS. □ DIRECTION OF TRAFFIC IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION. THE DEVICE SPACING MAY BE DECREASED TO 50 FEET. WORK ZONE 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 1/2 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 CLOSED CROSSOVER MANEUVER. IMILE .1500 F NO EQUIPMENT OR MATERIAL SHALL BE LOCATED WITHIN THE WORK ZONE OTHER THAN RIGHT LAN BEHIND THE PRECAST CONCRETE BARRIER. CLOSED 6 TEMPORARY PAVEMENT MARKING. END TEMPORARY PAVEMENT MARKING, 4-INCH EDGELINE (WHITE ON RIGHT, ROAD WORK 4-INCH EDGELINE (WHITE ON RIGHT, YELLOW ON LEFT) YELLOW ON LEFT) G20-2 100' TYP. $\Rightarrow$ LANE CLOSED $\Rightarrow$ 50' TYP. 300 TAPER TO OUTSIDE EDGE OF SHOULDER L = 880' MIN. IF 45 TO 55 MPH 500' MIN. 100' (TYP) 500' END SECTION REQ'D. (1)<sub>250'</sub> TYP. IF 45 TO 50 MPH L = 1040' MIN. IF 60 TO 65 MPH 800' DESIRABLE 475' TYP. IF 55 TO 65 MPH 2600' 1600' W5-52R DRUMS SPACED @ 10'INTERVALS AS NEEDED IN FRONT OF ARROW BOARD TRAFFIC CONTROL, ADVANCED WARNING AREA TRANSITION AREA BUFFER SPACE WORK ZONE LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. က WITH BARRIER D STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED 7-14-94 /S/ Chester J. Spang DATE DIRECTOR. OFFICE OF TRAFFIC Ω

#### LEGEND

- POST WITH ATTACHED SIGN
- POST WITH ATTACHED SIGN
- ✓ DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- → ARROW BOARD
- 8' TYPE III BARRICADE
- \* x \* REMOVING PAVEMENT MARKING
- □⇒ DIRECTION OF TRAFFIC

#### 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 DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" 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 AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

(1) CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

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.

#### GENERAL NOTES CONTINUED:

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 7 CONTINUOUS DAYS AND NIGHTS.

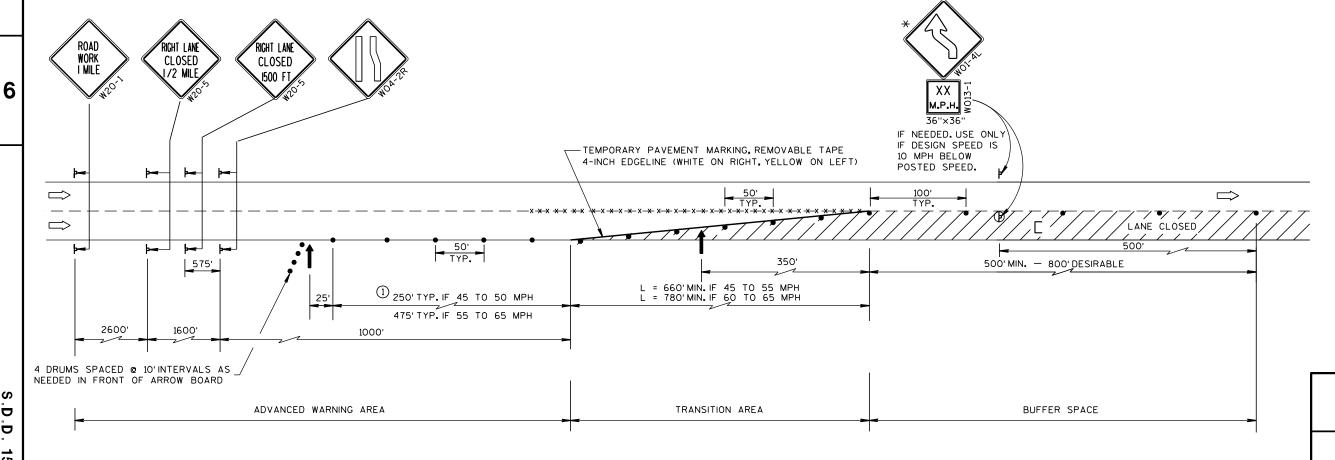
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1/4 MILE ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST 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 1/2 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.

\* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8-7-95

DATE

/S/ Chester J. Spang
DIRECTOR, OFFICE OF TRAFFIC

6

2

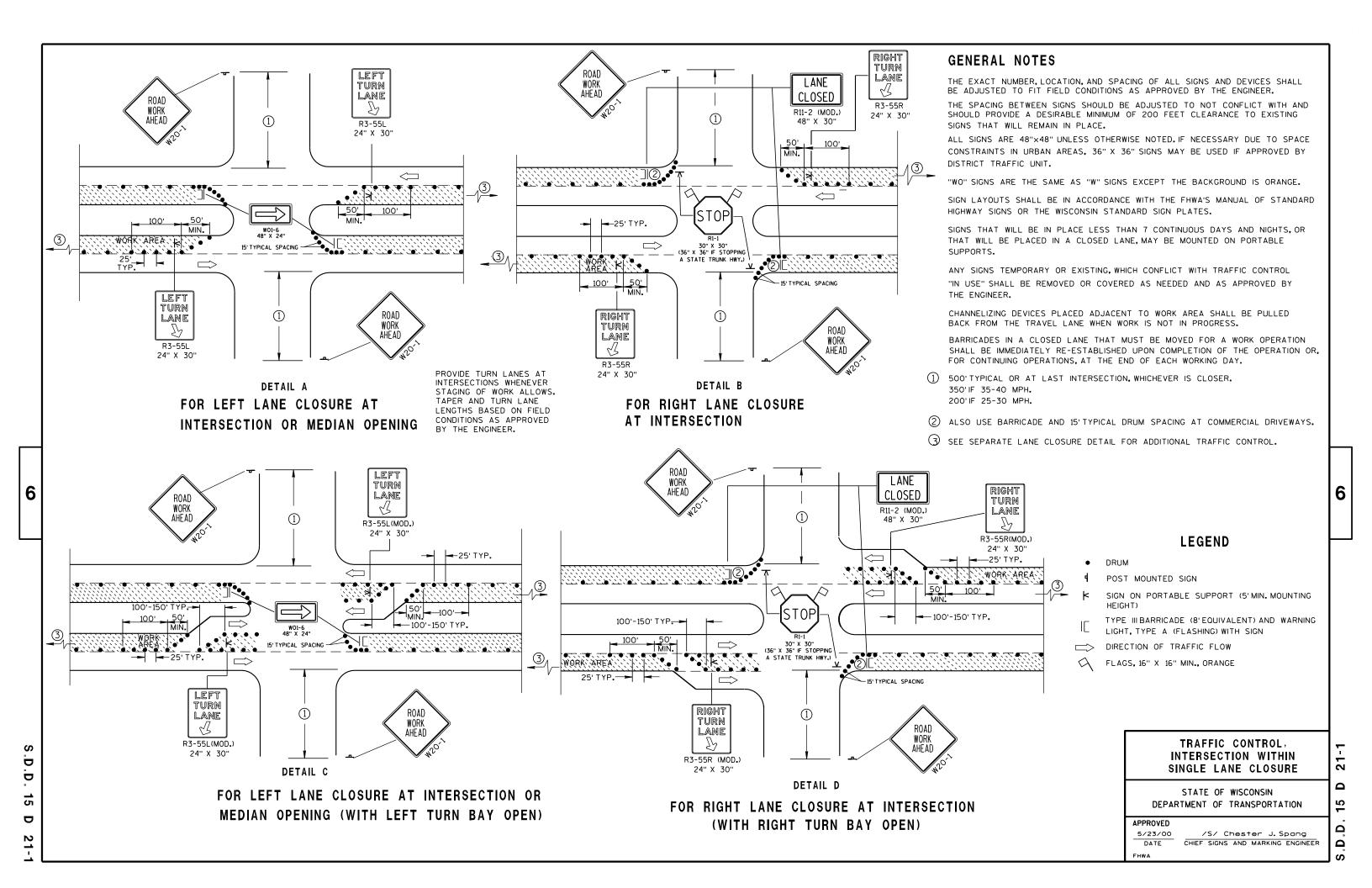
Ω

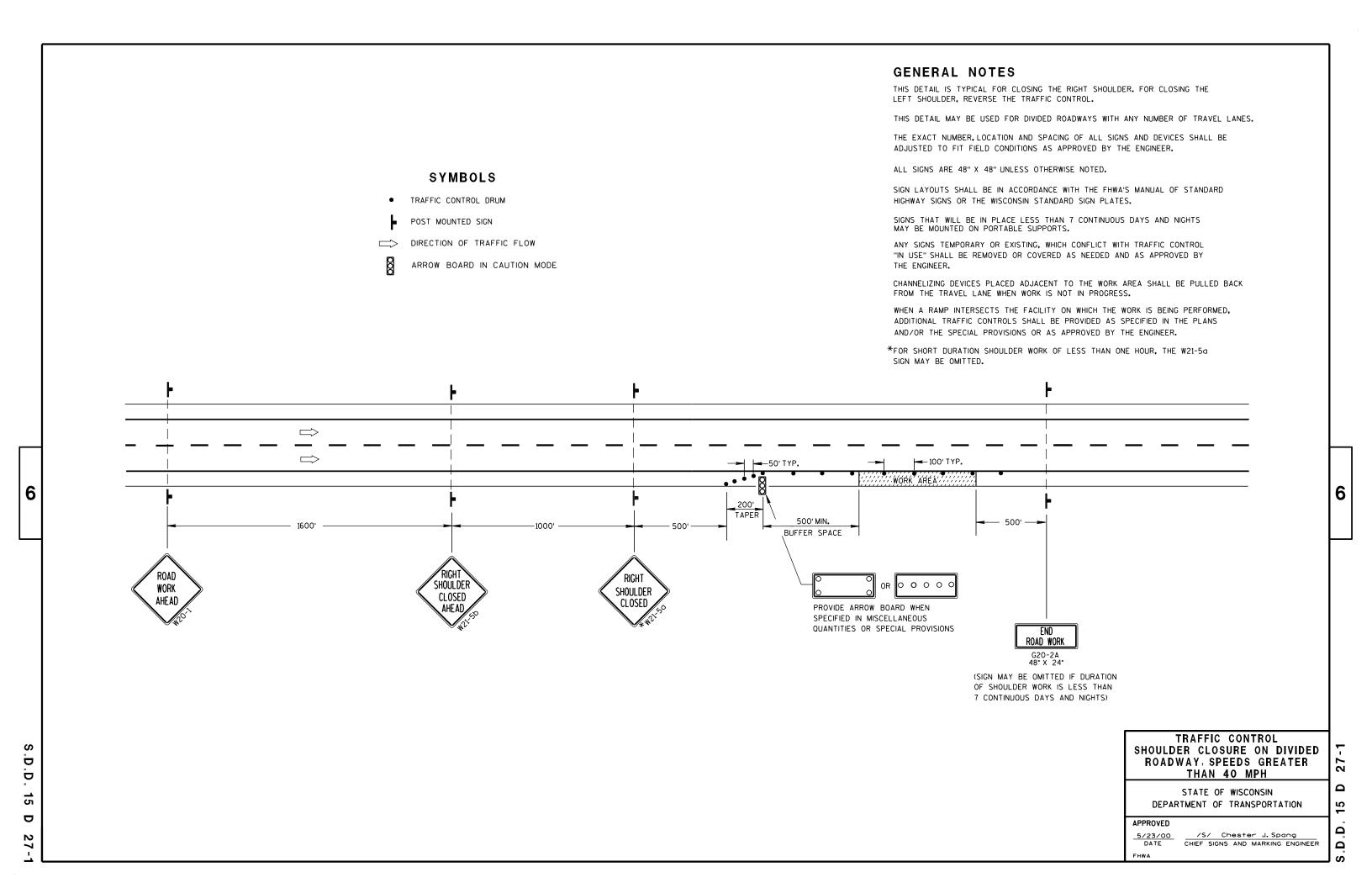
2

Ω

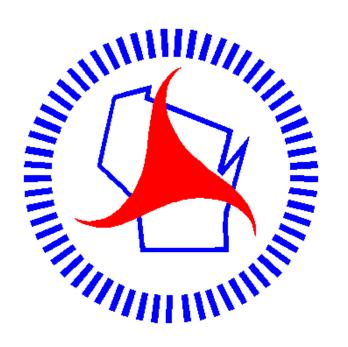
Ω

S.D.D. 15 D 12-2





Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov