MARSH AREA

WOODED OR SHRUB AREA

EAU	APR 2018	OTATE OF WILLOWN	STATE PE
P	ORDER OF SHEETS Section No. 1 Title	STATE OF WISCONSIN	1190-09-
ROJE	Section No. 2 Typical Sections and Details	DEPARTMENT OF TRANSPORTATION	
ECT	(Includes Erosion Control Plans) Section No. 3 Estimate of Quantities		1
₽	Section No. 3 Miscellaneous Quantities Section No. 4 Right of Way Plat	PLAN OF PROPOSED IMPROVEMENT	
<u> </u>	Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings	CHIPPEWA FALLS - NEW AUBURN	
19	Section No. 7 Sign Plates		
-0	Section No. 8 Structure Plans Section No. 9 Computer Earthwork Data	BRPNT/WCL RR B-9-53 NB & B-9-52 SB	
9	Section No. 9 Cross Secti ons	USH 53	
6	TOTAL SHEETS = 30	CHIPPEWA COUNTY	
5	COUNTY		
	MA N	1190-09-65	
	N N	HH 5 1 36 1 7 1 1 1 1	
		T-29-N	
	PROJECT	TANZER PRIDGEWATER	
	LOCATION	Chippewa Balls	
	DESIGN DESIGNATION		
	USH 53 A.D.T. (2017) = 18,000	NELSON RD 124	
	A.D.T. (2037) = N/A D.H.V. = N/A D. = N/A	PROJECT 1190-09-65	5
COUNT	T. = N/A DESIGN SPEED = 70 MPH	STRUCTURES B-9-52	
YTN	ESALS = N/A	W PEDERSON P	32+66.88
	CONVENTIONAL SYMBOLS PLAN	IS WOURTH TO THE SAME AND THE S	
0	CORPORATE LIMITS PROFILE PROPERTY LINE PL + 58.1 CRADE LINE	EARLY DR 25TH AVE HALLIE	
HP	LOT LINE ORIGINAL GROUND MARSH OR ROCK	Distriction Tologo RD TINI	
P	LIMITED HIGHWAY EASEMENT L (To be noted EXISTING RIGHT OF WAY SPECIAL DITCH	Drepsen -	
EV	PROPOSED OR NEW R/W LINE GRADE ELEVATIO	MANUAL DR WANGE DR T-28-N	
WA	SLOPE INTERCEPT REFERENCE LINE CULVERT (Profi		
	EXISTING CULVERT ————————————————————————————————————	THE TALL OF THE SENIMOUR	
	(Box or Pipe) ELECTRIC	—— οн—— —— ε —— —— = ——	
	GAS		
	SANITARY SEWER HIGH VOLTAGE STORM SEWER	—— SAN —— SCALE	
	CAUTION TELEPHONE WATER	T	

X

ø ø

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

FEDERAL PROJECT ROJECT PROJECT CONTRACT -65

> ORIGINAL PLANS PREPARED BY ASSOCIATES 3433 Oakwood Hills Parkway
> Eau Claire, WI 5470I
> www.AyresAssociates.com MISCONE'S MECONS McMAHON E-29454 STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY Surveyor AYRES ASSOCIATES INC Designer MOHAMAD HAYEK Project Manager JENNIFER OLDENBURG Regional Examiner MARK PLOEDERER Regional Supervisor

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), CHIPPEWA COUNTY

E

GENERAL NOTES

WORK CONSISTS OF TRAFFIC CONTROL, CONTAINMENT ENCLOSURE ERECTION, ABRASIVE BLASTING SURFACE PREPARATION, AND APPLICATION OF NEW COATING SYSTEM FOR ALL STRUCTURAL STEEL OF PROJECT BRIDGE.

ENCLOSURE AND MATERIALS SHALL BE MAINTAINED TAUT AND IN SUCH A MANNER THAT IT WILL NOT OBSTRUCT/DISTRACT THE VIEW OF OR SNAG ON ANY PASSING VEHICLES.

USH 53 WILL BE KEPT OPEN TO A MINIMUM OF ONE LANE OF TRAFFIC AT ALL TIMES.

SIGNS AND DEVICES WILL BE IN CONFORMANCE WITH THE LATEST WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

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

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

ABBREVIATIONS

CHIS CHISELED CENTERLINE COR CORNER CWT COUNT CY CUBIC YARD **ELEVATION** GAL GALLON HOUSE ΙP IRON PIPE LB LF POUND LINEAR FEET LUMP SUM LS LΤ LEFT MAX MAXIMUM MIN MINIMUM MON MONUMENT NORM NORMAL OVERALL LENGTH OAL PC POINT OF CURVATURE PD PEDESTAL PΙ POINT OF INTERSECTION PΚ PARKER-KALON PL PROPERTY LINE PERMANENT LIMITED EASEMENT PLE PP POWER POLE РΤ POINT OF TANGENCY RADIUS REQ'D REQUIRED RIGHT RIGHT-OF-WAY R/W SQUARE FEET SHLDR STA SHOULDER STATION SY SQUARE YARD TEMPORARY LIMITED EASEMENT TLE VAR VARIES WL WELL



WISCONSIN CENTRAL LTD (CN) IS NOT PART OF DIGGERS HOTLINE: CONTACT CN CALL BEFORE YOU DIG AT (734) 783-4533

AREA CONTACTS

STATE OF WISCONSIN

DNR CONTACT: CHRIS WILLGER DNR/DOT LIASON OFC. OF EDGR. & ENV. REVIEW PHONE: (715) 839-1609 christopherj.willger@wisconsin.gov

WISDOT STRUCT. MAINT. ENGINERR GREGORY HAIG CELL: (715) 577-0646 gregory.haig@dot.wi.gov

WISDOT BRPAINT & HAZMAT COORD. WILLIAM KOVALESKI, JR PHONE: (715) 225-9431 william.kovaleski@dot.wi.gov

WISDOT ENVIRONMENTAL COORD. NICK SCHAFF PHONE: (715) 836-2068 nicholas.schaff@dot.wi.gov

CHIPPEWA COUNTY

COUNTY SHERIFF SHERIFF: JAMES L. KOWALCZYK 32 E SPRUCE ST. CHIPPEWA FALLS, WI 54729 NON-EMERG: (715) 726-7701 EMERGENCY: 911 jkowalczyk@co.chippewa.wi.us

EMERGENCY MANAGEMENT DIRECTOR: DENNIS BROWN 32 E SPRUCE ST. CHIPPEWA FALLS. WI 54729 PHONE: (715) 726-7728 dbrown@co.chippewa.wi.us

HIGHWAY COMMISSIONER INTERIM COMMISSIONER: BRIAN KELLEY 801 EAST GRAND AVENUE CHIPPEWA FALLS, WI 54729 OFFICE: (715) 726-7914 SHOP: (715) 726-7915 bkelley@co.chippewa.wi.us

CITY OF CHIPPEWA FALLS

POLICE DEPARTMENT CHIEF: MATTHEW KELM 210 ISLAND ST. CHIPPEWA FALLS. WI 54729 NON-EMERG: (715) 723-4424 ext. 211 EMERGENCY: 911 mkelm@chippewafalls-wi.gov

FIRE & EMS CHIEF: THOMAS LARSON 211 BAY ST. CHIPPEWA FALLS, WI 54729 NON-EMERG: (715) 723-5710 EMERGENCY: 911 firedept@chippewafalls-wi.gov

STREET DEPARTMENT MANAGER: RICK RUF 5 BJORK-RIVERSIDE DR. CHIPPEWA FALLS, WI 54729 PHONE: (715) 723-4151 streets@chippewafalls-wi.gov

RAILROAD

WISCONSIN CENTRAL LTD (CN) JACKIE MACEWICZ, MANAGER PUBLIC PROJECTS 1625 DEPOT STREET STEVENS POINT, WI 54481 PHONE: (715) 345-2503 jackie.macewicz@cn.ca

UTILITIES

THE FOLLOWING UTILITIES HAVE FACILITIES WITH SERVICES IN THE PROJECT VICINITY.

COMMUNICATIONS

CHIPPEWA VALLEY INTERNETWORKING CONSORTIUM (CINC) UNIVERSITY OF WISCONSIN - EAU CLAIRE 105 GARFIELD AVENUE EAU CLAIRE, WI 54701 ATTN: DAREN BAUER NETWORK ENGINEER - TECHNICAL SERVICES 715-836-5286 bauerdp@uwec.edu

PACKERLAND BROADBAND 105 KENT STREET P.O. BOX 190 IRON MOUNTAIN, MI 49801-0190 ATTN: WAYNE CRETTON 905-774-6621, ext 2328 906-282-3768 (cell) wayne.cretton@packerlandbroadband.com

BRIDGE

PROJECT NO: 1190-09-65

HWY: USH 53

COUNTY: CHIPPEWA

GENERAL NOTES

SHEET

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-FT (500-FT DESIRABLE) DISTANCE TO EXISTING SIGNS.

"WO" IS THE SAME AS "W" EXCEPT THE ORANGE BACKGROUND.

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.

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

PLACE PCMS 2-MILE IN ADVANCE OF WORK ZONE IN BOTH THE NB AND SB DIRECTIONS.

BUFFER ZONE FOR USH 53 NB CLOSURE EXTENDED TO 2400-FT TO PROVIDE CFOR ADEQUATE DISTANCE IN ADVANCE OF THE INTERCHANGE RAMPS.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

PROJECT NO: 1190-09-65



PLACE SIGNS APPROXIMATELY 2 MILES AHEAD OF THE WORK ZONE IN THE NB AND SB DIRECTIONS.

LEGEND POST WITH SIGN ATTACHED DIRECTION OF TRAVEL TYPE III BARRICADE W/ SIGN ATTACHED WORK ZONE/EQUIPMENT STAGING AREA TRAFFIC CONTROL DRUM FLASHING ARROW BOARD CONCRETE BARRIER TEMPORARY PRECAST TRAFFIC CONTROL DRUM W/ TYPE 'C' STEADY BURN LIGHT

CRASH CUSHION

SINGLE LANE CLOSURE - USH 53 NB

TYPE III BARRICADE SEE "SDD 15D3: TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER" FOR SIGNING AND TRAFFIC CONTROL GUIDANCE IN THE ADVANCED WARNING AREA END ROAD WORK W5-52L G20-2A 48" X 24" 12" X 36' 100 (TRANSITION AREA) (BUFFER SPACE) AT BRIDGE STRUCTURE B-09-0053 WORK ZONE / EQUIPMENT STAGING AREA \Rightarrow - 100' TYP. -USH 53 NB USH 53 NB \Rightarrow NB RAMP FROM BUS 29/ W RIVER ST TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH END INSTALL CRASH CUSHION AT END OF BARRIER WALL ROAD WORK G20-2A 48" X 24" TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH, YELLOW (EDGELINE)

FILE NAME: V:\Structures-EC\42-0991.00 - USH 53 Bridge Painting - RR Bridges\Construction Staging\420991_advanced signing_tc.dgn PLOT DATE: 10/26/2017

HWY: USH 53

PLOT BY: Hickmant

TRAFFIC CONTROL - WORK ZONE

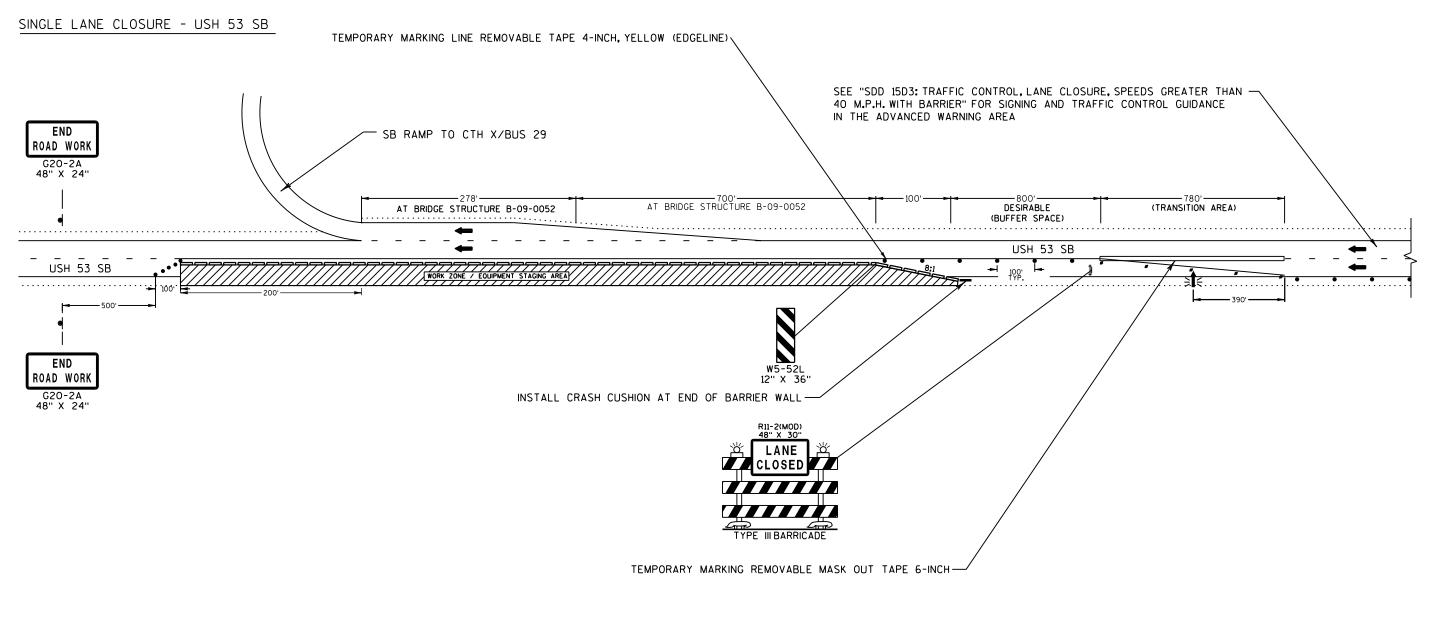
PLOT NAME:

SHEET

COUNTY: CHIPPEWA



PLACE SIGNS APPROXIMATELY 2 MILES AHEAD OF THE WORK ZONE IN THE NB AND SB DIRECTIONS.



FILE NAME: V:\Structures-EC\42-0991.00 - USH 53 Bridge Painting - RR Bridges\Construction Staging\420991_advanced signing_tc.dgn PLOT DATE: 10/26/2017

HWY: USH 53

PROJECT NO: 1190-09-65

PLOT BY: Hickmant

TRAFFIC CONTROL - WORK ZONE

PLOT NAME :

SHEET

COUNTY: CHIPPEWA

Estimate Of Quantities

					1190-09-65
Line	Item	Item Description	Unit	Total	Qty
0002	213.0100	Finishing Roadway (project) 01. 1190-09-65	EACH	1.000	1.000
0004		Structure Repainting Recycled Abrasive (structure) 01. B-9-52		1.000	1.000
0006	517.1800.S	Structure Repainting Recycled Abrasive (structure) 02. B-9-53	LS	1.000	1.000
8000	517.3000.S	Structure Overcoating Cleaning and Priming (structure) 01. B-9-52	LS	1.000	1.000
0010		Structure Overcoating Cleaning and Priming (structure) 02. B-9-53		1.000	1.000
0012	517.4000.S	Containment and Collection of Waste Materials (structure) 01. B-9-52	LS	1.000	1.000
0014	517.4000.S	Containment and Collection of Waste Materials (structure) 02. B-9-53	LS	1.000	1.000
0016	517.4500.S	Negative Pressure Containment and Collection of Waste Materials (structure) 01. B-9-52	LS	1.000	1.000
0018	517.4500.S	Negative Pressure Containment and Collection of Waste Materials (structure) 02. B-9-53	LS	1.000	1.000
0020	517.6001.S	Portable Decontamination Facility	EACH	1.000	1.000
0022	603.8000	Concrete Barrier Temporary Precast Delivered	LF	1,733.000	1,733.000
0024	603.8125	Concrete Barrier Temporary Precast Installed	LF	1,733.000	1,733.000
0026	614.0905	Crash Cushions Temporary	EACH	2.000	2.000
0028	619.1000	Mobilization	EACH	1.000	1.000
0030	642.5001	Field Office Type B	EACH	1.000	1.000
0032	643.0300	Traffic Control Drums	DAY	4,300.000	4,300.000
0034	643.0420	Traffic Control Barricades Type III	DAY	100.000	100.000
0036	643.0705	Traffic Control Warning Lights Type A	DAY	200.000	200.000
0038	643.0715	Traffic Control Warning Lights Type C	DAY	1,200.000	1,200.000
0040	643.0800	Traffic Control Arrow Boards	DAY	200.000	200.000
0042	643.0900	Traffic Control Signs	DAY	700.000	700.000
0044	643.1051	Traffic Control Signs PCMS with Cellular Communications	DAY	100.000	100.000
0046	643.5000	Traffic Control	EACH	1.000	1.000
0048	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	4,291.000	4,291.000
0050	649.0960	Temporary Marking Removable Mask Out Tape 6-Inch	LF	1,560.000	1,560.000
0052	801.0117	Railroad Flagging Reimbursment	DOL	65,000.000	65,000.000
				,	,

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FINISHING ROADWAY

213.0100

(PROJECT)
PROJECT NO. EA

1190-09-65 1

CONCRETE BARRIER TEMPORARY PRECAST

			603.8000	603.8125		
			DELIVERED	INSTALLED		
PROJECT ID	BRIDGE NO.	LOCATION	LF	LF	COMMENT	
1190-09-65	B-9-52	INSIDE SB LANE CLOSED	1080	1080	ANCHOR CONCRETE BARRIER PER DETAIL	
	B-9-53	INSIDE NB LANE CLOSED	653	653	ANCHOR CONCRETE BARRIER PER DETAIL	
TOTAL	_		1733	1733		

MORILI	ZATION	FIELD OFFICE		TRAFFIC CONTROL		
619.1000 (PROJECT)			642.5001 FIELD OFFICE		643.5000 (PROJECT)	
PROJECT NO.	EA	DDOLECT NO	(TYPE B)	PROJECT NO.	EA	
1190-09-65	1	PROJECT NO.	<u>EA</u>	1190-09-65	1	
1130-03-03	19-05	1190-09-65	1	1190-09-03	1	

TRAFFIC CONTROL ITEMS

					HVAFI	IC CONTIN	OL IILIVIS							
			643.	.0300	643.	0420	643	.0705	643.	.0715	643	.0800	643.1	1051
					BARRI	CADES	WARNIN	IG LIGHTS	WARNIN	IG LIGHTS	ARI	ROW	PCMS WITH	I CELLULAR
			DR	UMS	TYF	PE III	TYI	PE A	TY	PE C	BOA	ARDS	COMMUNI	CATIONS
PROJECT ID	BRIDGE NO.	DURATION (DAYS)	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS
1190-09-65	B-9-52	50	43	2150	1	50	2	100	9	450	2	100	1	50
1190-09-65	B-9-53	50	43	2150	1	50	2	100	15	750	2	100	1	50
TOTAL				4300		100		200		1200		200		100

PROJECT NO:1190-09-65	HWY:USH 53	COUNTY:CHIPPEWA	MISCELLANEOUS QUANTITIES	SHEET: I	ΕŢ
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FILE NAME : _____ PLOT BY : ____ PLOT NAME : ____ PLOT SCALE : 1:1

3|

TRAFFIC CONTROL SIGNS

			643.0900		
PROJECT ID	BRIDGE NO.	DURATION (DAYS)	NO.	DAYS	
1190-09-65	B-9-52	25	14	350	
	B-9-53	25	14	350	
TOTAL				700	

TEMPORARY MARKING

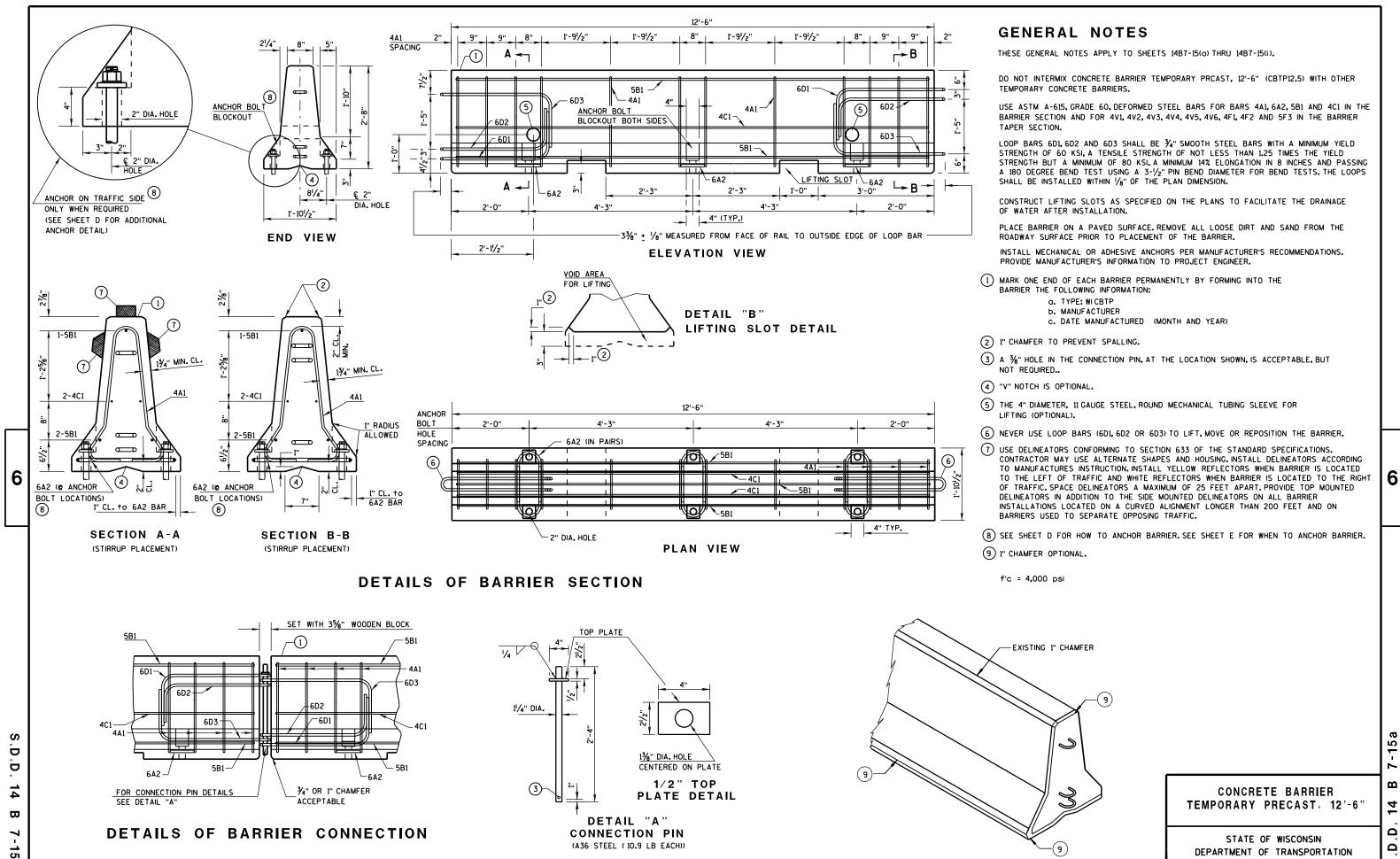
_			649.0960	649.0150
			REMOVABLE	LINE REMOVABLE TAPE
			MASK OUT TAPE	4-INCH
			6-INCH	YELLOW
	PROJECT ID	BRIDGE NO.	LF	LF
	1190-09-65	B-9-52	780	2058
		B-9-53	780	2233
	TOTAL		1560	4291

PROJECT NO:1190-09-65 HWY:USH 53 COUNTY:CHIPPEWA MISCELLANEOUS QUANTITIES SHEET: **E**

FILE NAME : _____ PLOT DATE : ____ PLOT BY : ____ PLOT NAME : ____ PLOT SCALE : 1:1

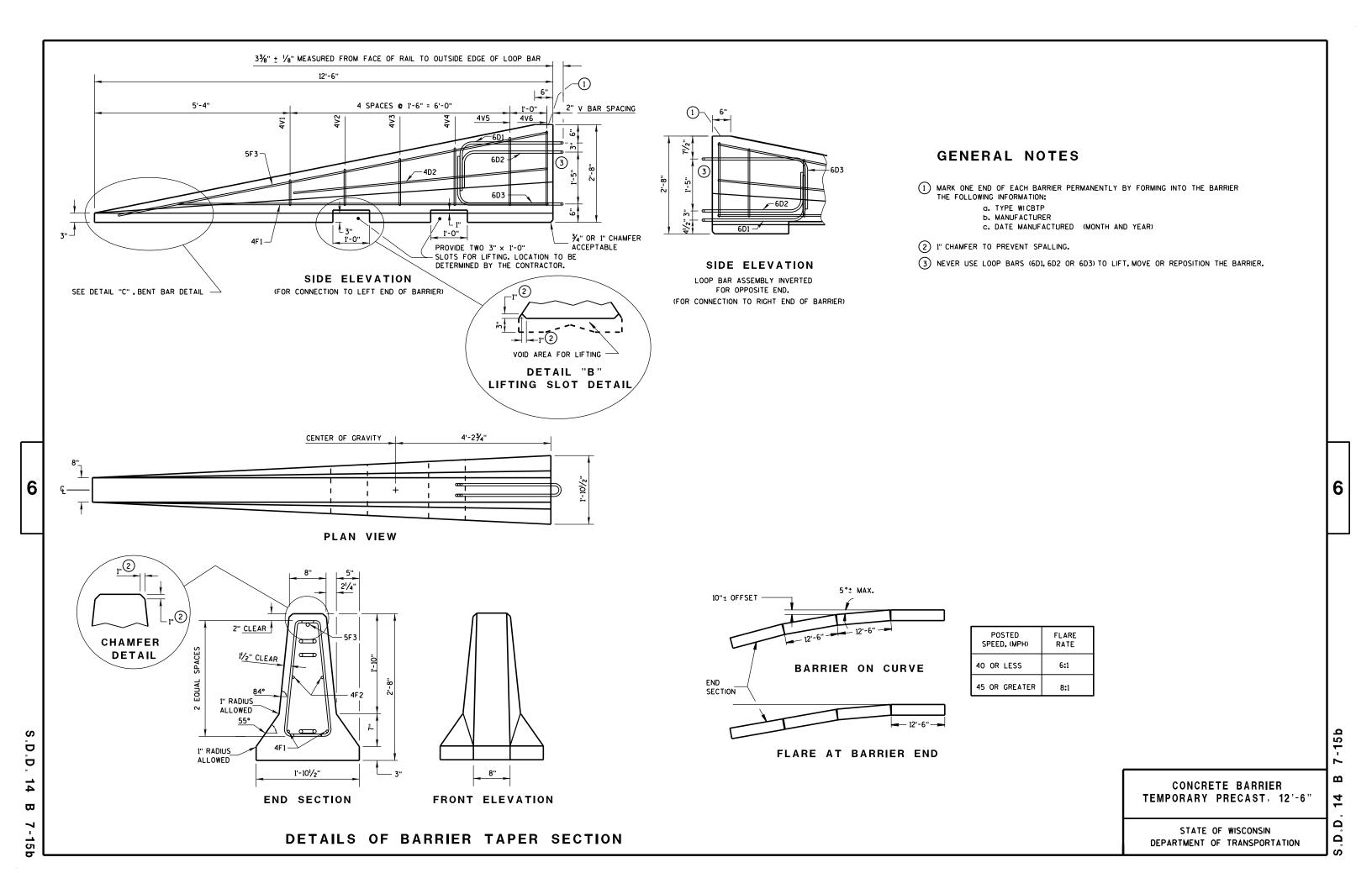
Standard Detail Drawing List

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"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
15D03-04	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER



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DEPARTMENT OF TRANSPORTATION

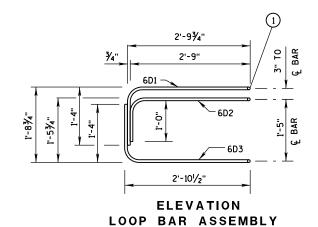


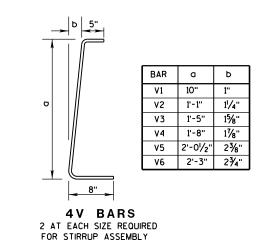
1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

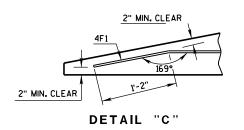
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

WENTE O BANKEN TALEN SECTION							
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.				
4V1	4	2	1'-11"				
4V2	4	2	2'-2"				
4٧3	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"				
		•	•				





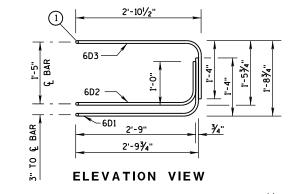


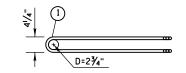
BENT BAR DETAIL

TAPER BARRIER SECTION



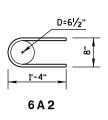
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.			
4A1	4	12	6'-0"			
6A2	6	6	2'-11"			
5B1	5	3	12'-2"			
4C1	4	2	12'-2"			
LOOP ASSEMBLY						
6D1	6	2	8'-5"			
6D2	6	2	7'-7"			
6D3	6	2	8'-6"			

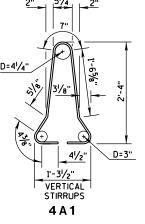




PLAN VIEW LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)





BARRIER SECTION

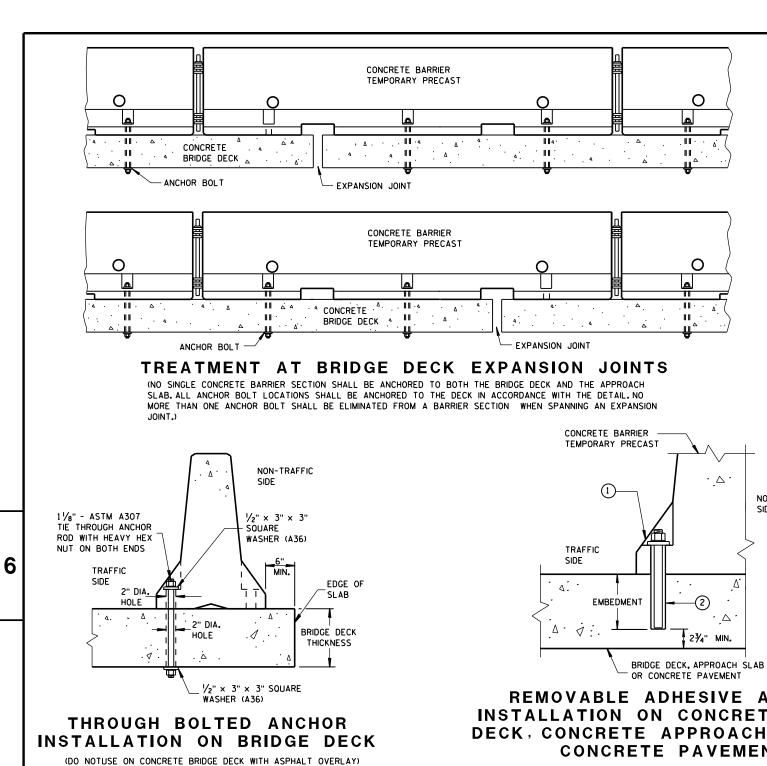
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6

7-15c

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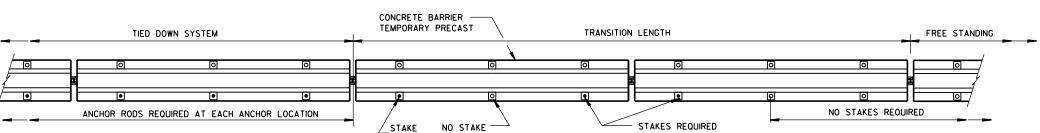
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REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR **CONCRETE PAVEMENT**

NON-TRAFFIC

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



DIRECTION OF TRAFFIC

PLAN VIEW

REQUIRED

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

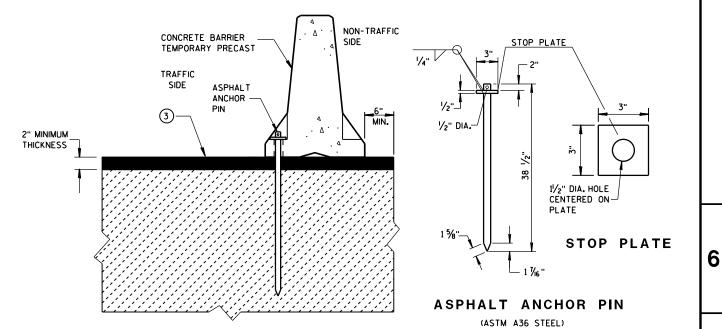
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

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.

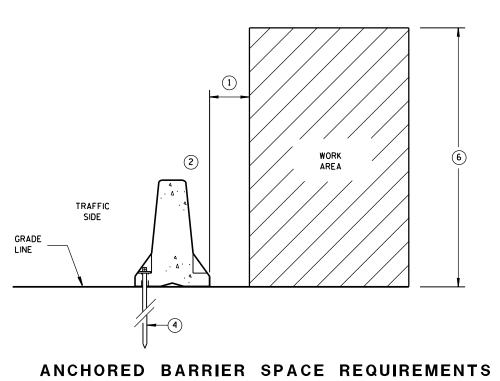
- 1 1/8" DIAMENTER A307 THREADED ROD, 1/2" X 3" X 3" SOUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.
- 2 ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 51/4" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.
- (3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



STAKE DOWN INSTALLATION FOR **ASPHALTIC SURFACE**

> **CONCRETE BARRIER** TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION -15d $\mathbf{\omega}$ Ω



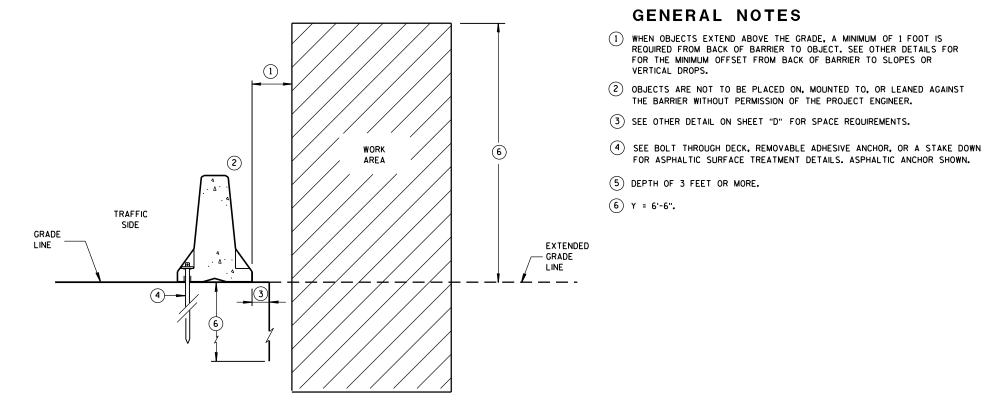
FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

6

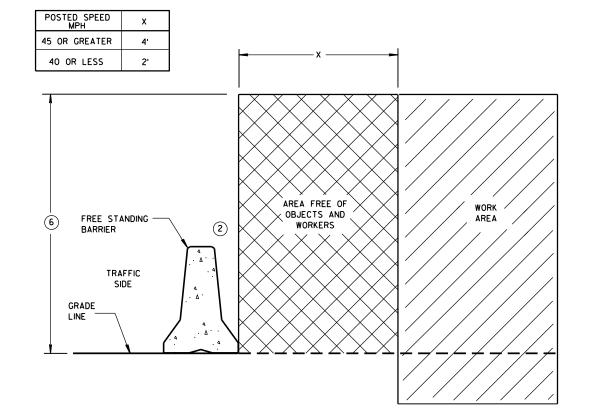
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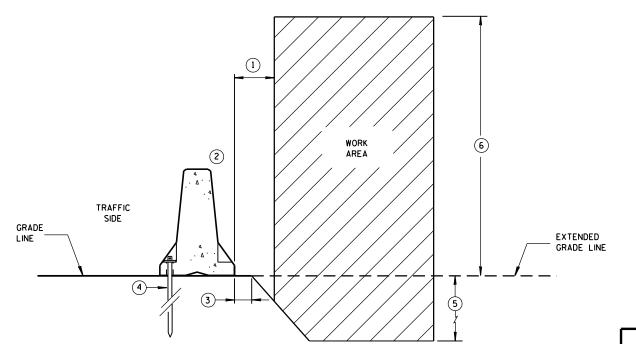
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ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS



FREE STANDING BARRIER SPACE REQUIREMENTS



ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

GENERAL NOTES

FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR

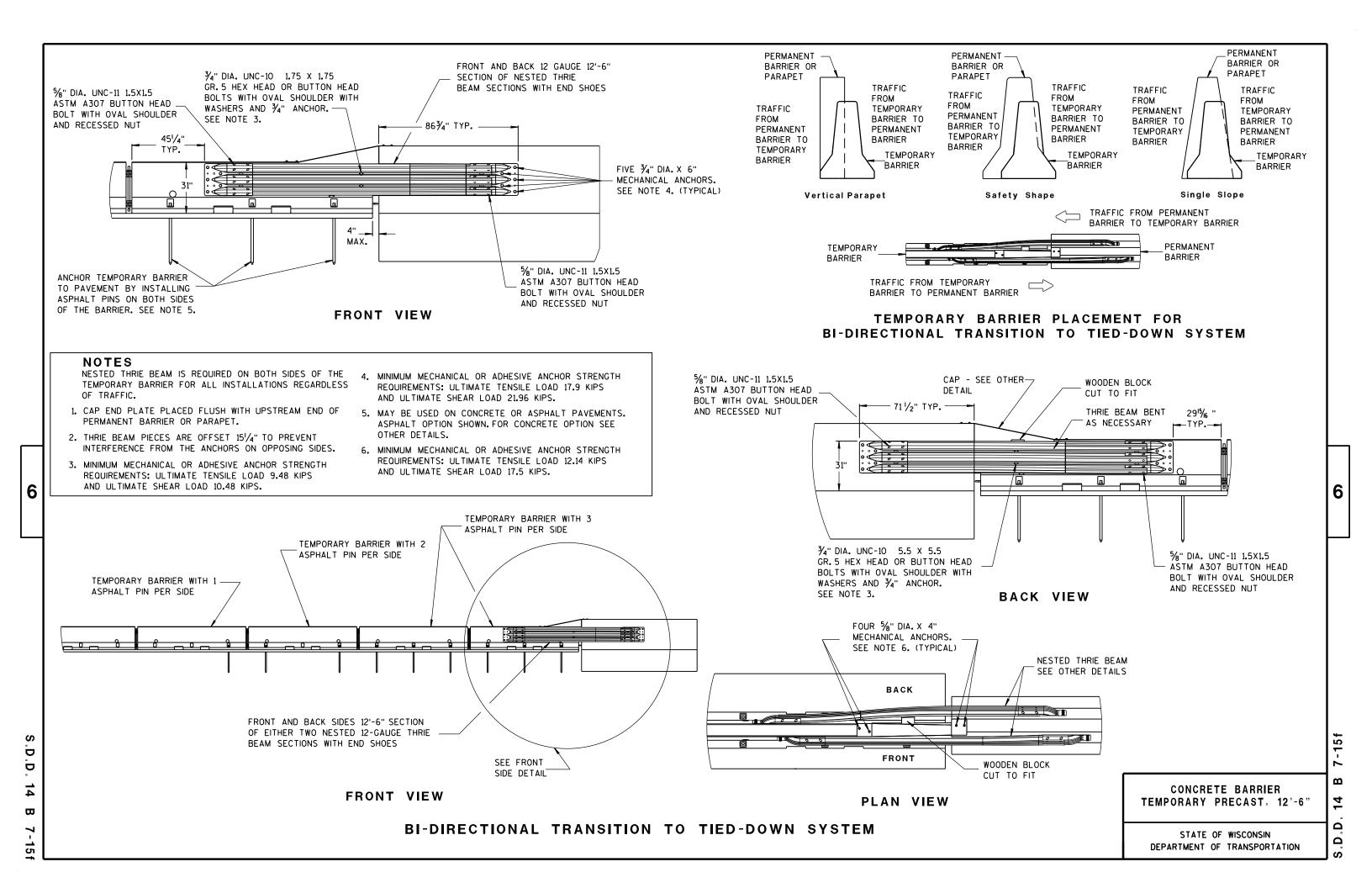
FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.

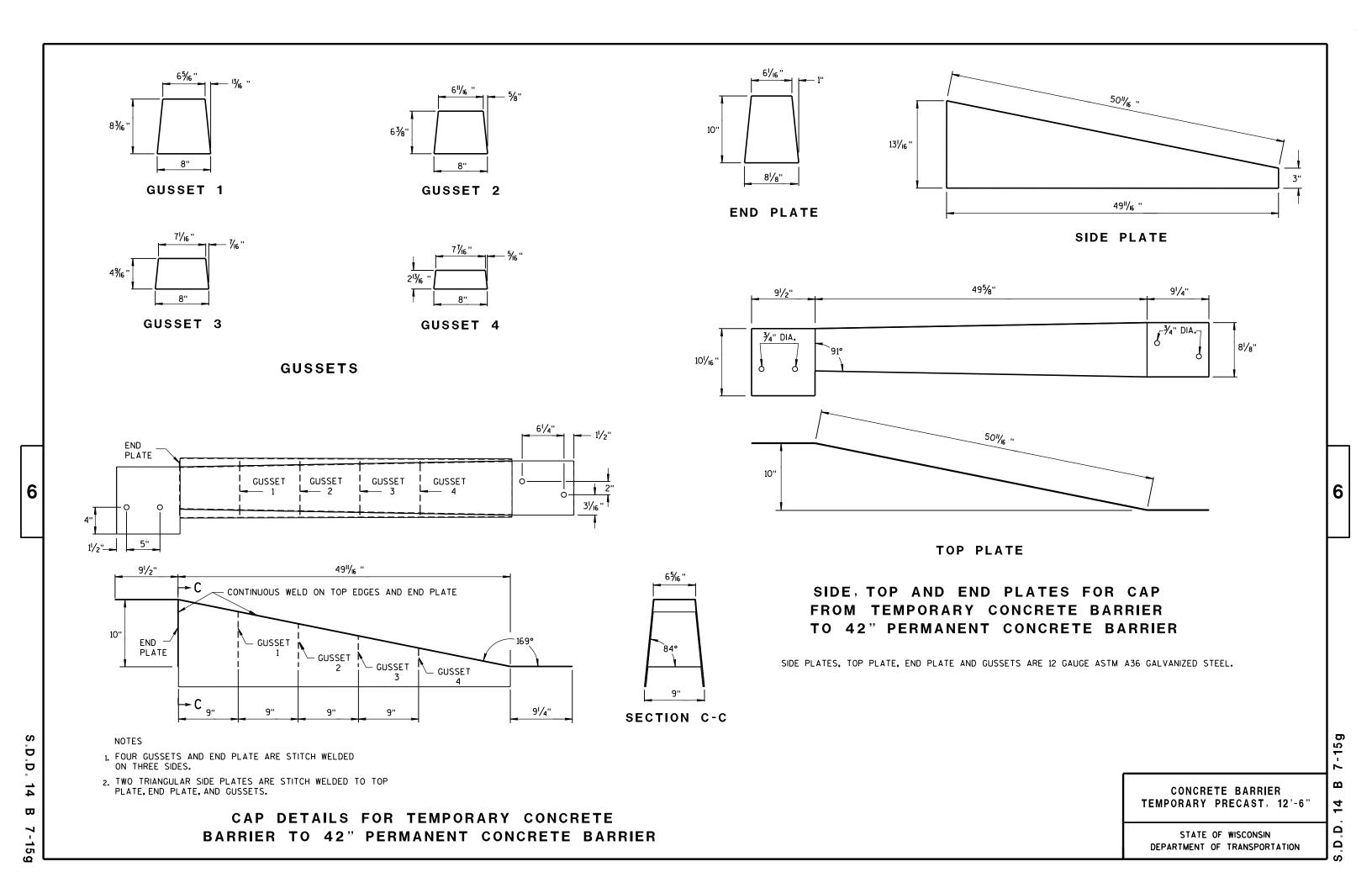
THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.

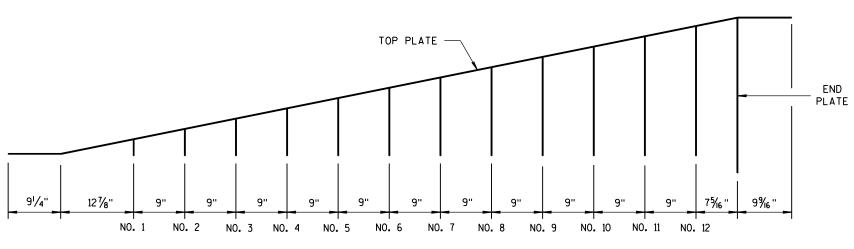
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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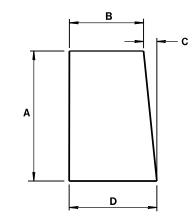




GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE

BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET No.	A	В	С	D
1	21/8"	73/4"	1/4"	8
2	4"/16 "	7% "	1/2"	8
3	61/2"	73/8"	11/16 "	81/16"
4	85/6"	73//6"	7∕8"	81/16 "
5	101/8"	7''	1 ½ ₆ "	81/16"
6	11 ¹⁵ / ₁₆ ''	6 ¹³ // ₆ "	1 1/4"	81/16"
7	13¾"	65%"	1 1/6"	81/16"
8	15% "	6¾6"	1 % "	81/16"
9	173/8"	6 ¹ /4"	1 ¹³ / ₁₆ "	8½ ₆ "
10	193/6"	6½ ₆ "	1 15/16 "	81/16 "
11	21"	5 1/8"	23/6"	81/16"
12	22 ¹³ / ₁₆ "	5 ¹¹ / ₁₆ "	2% "	8½ ₆ "

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"

DEPARTMENT OF TRANSPORTATION

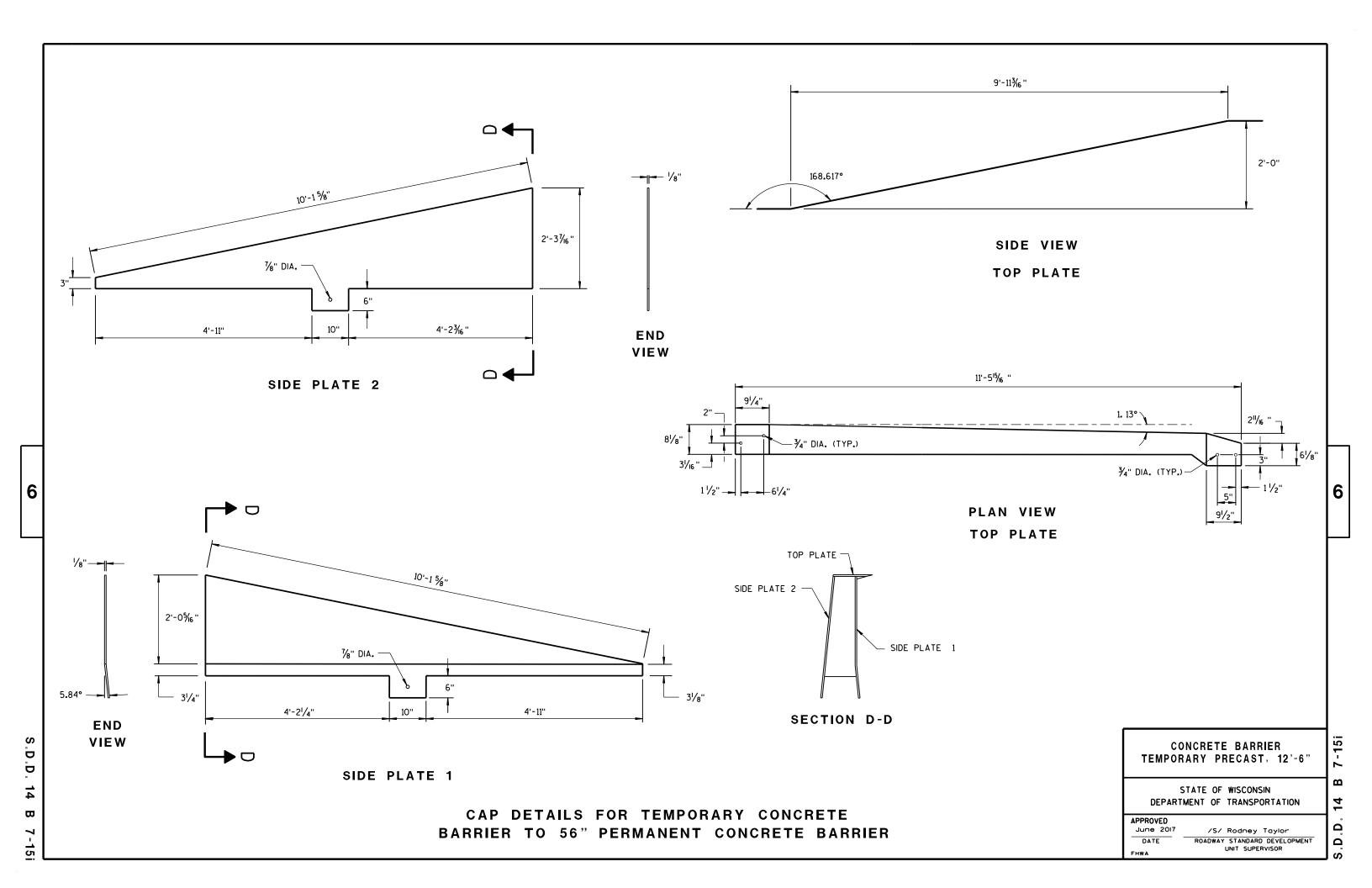
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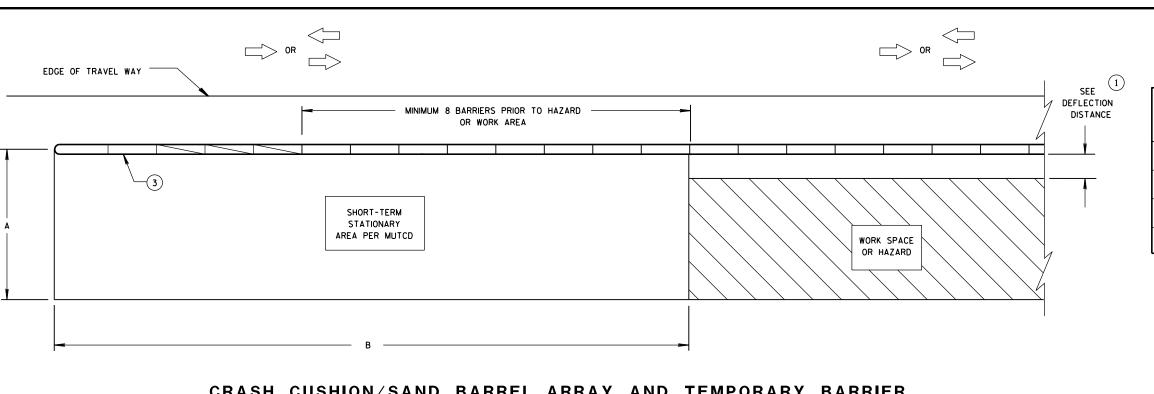
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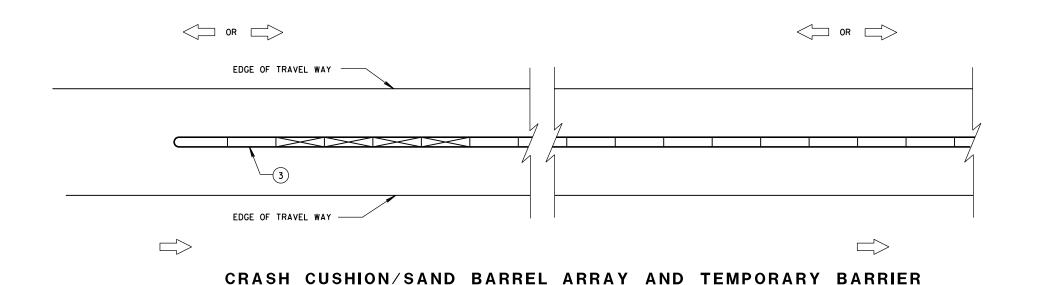
DIMENSION A TABLE (2)

		DIMENSION A	
FACILITY	POSTED SPEED MPH	MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED	DIMENSION
SPEEDS	В
MPH	FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645

CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER



INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

LEGEND

PERMANENT CONCRETE BARRIER

GENERAL NOTES

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SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

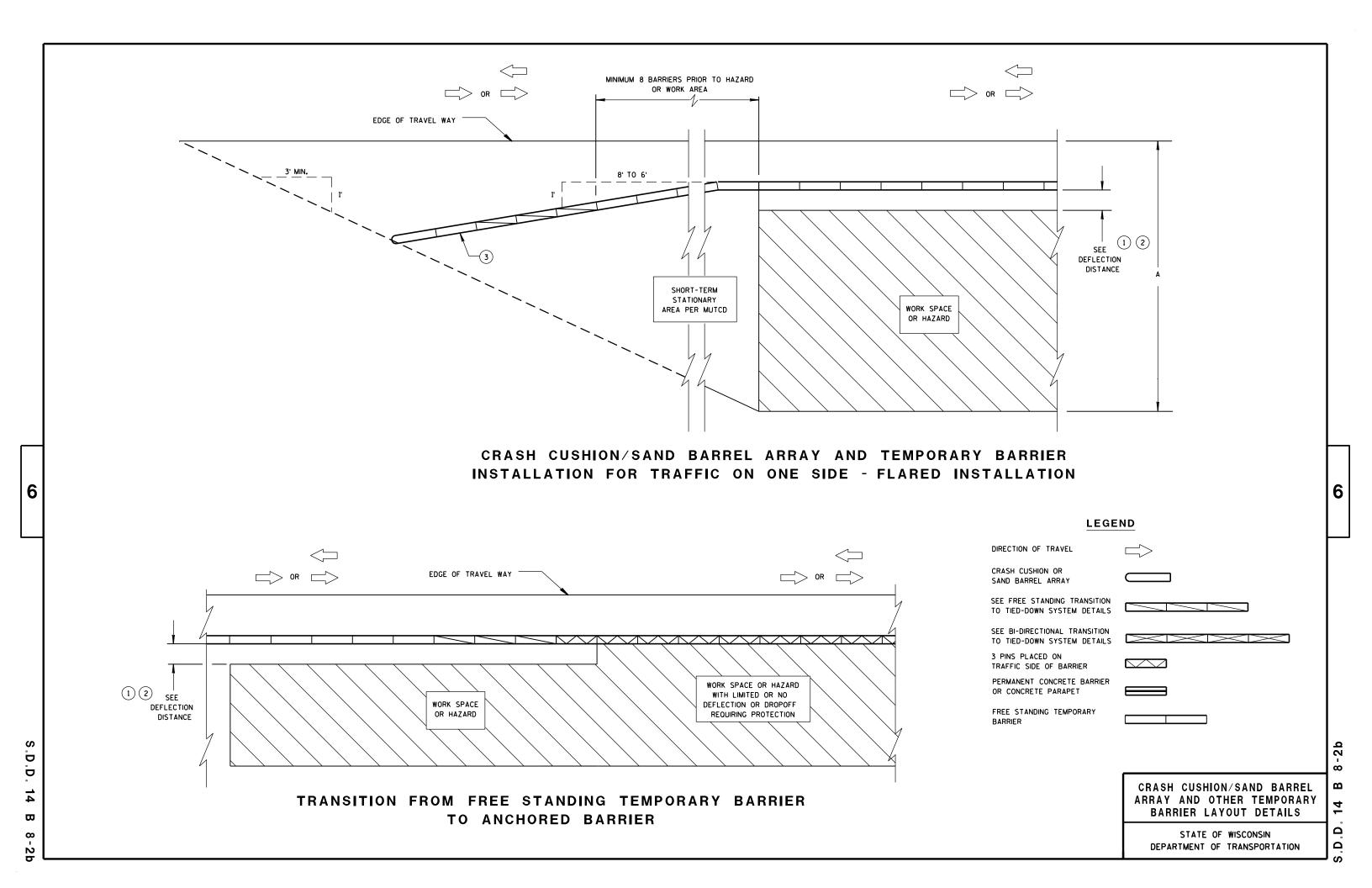
- (1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.
- (2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.
- (3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

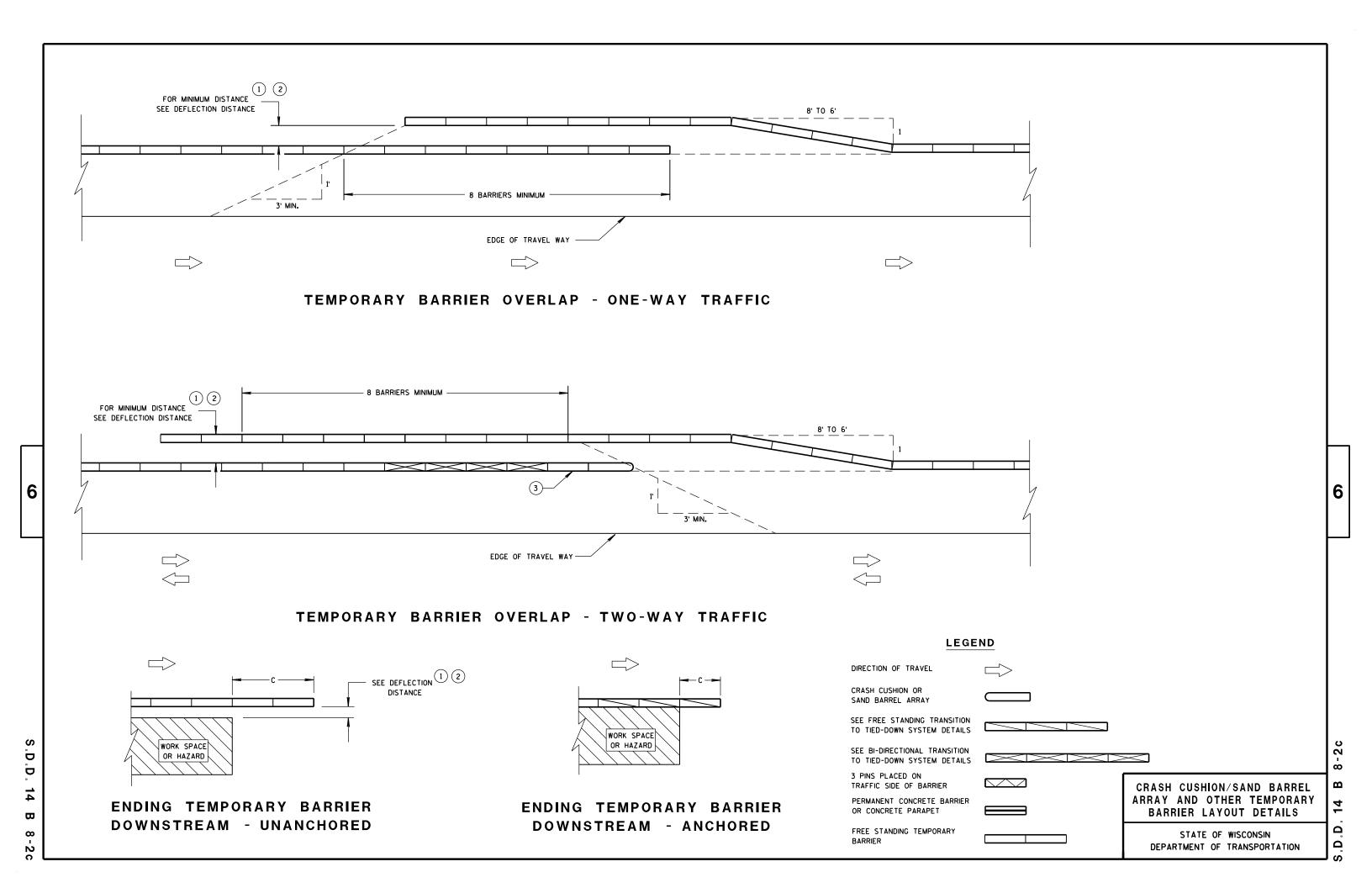
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

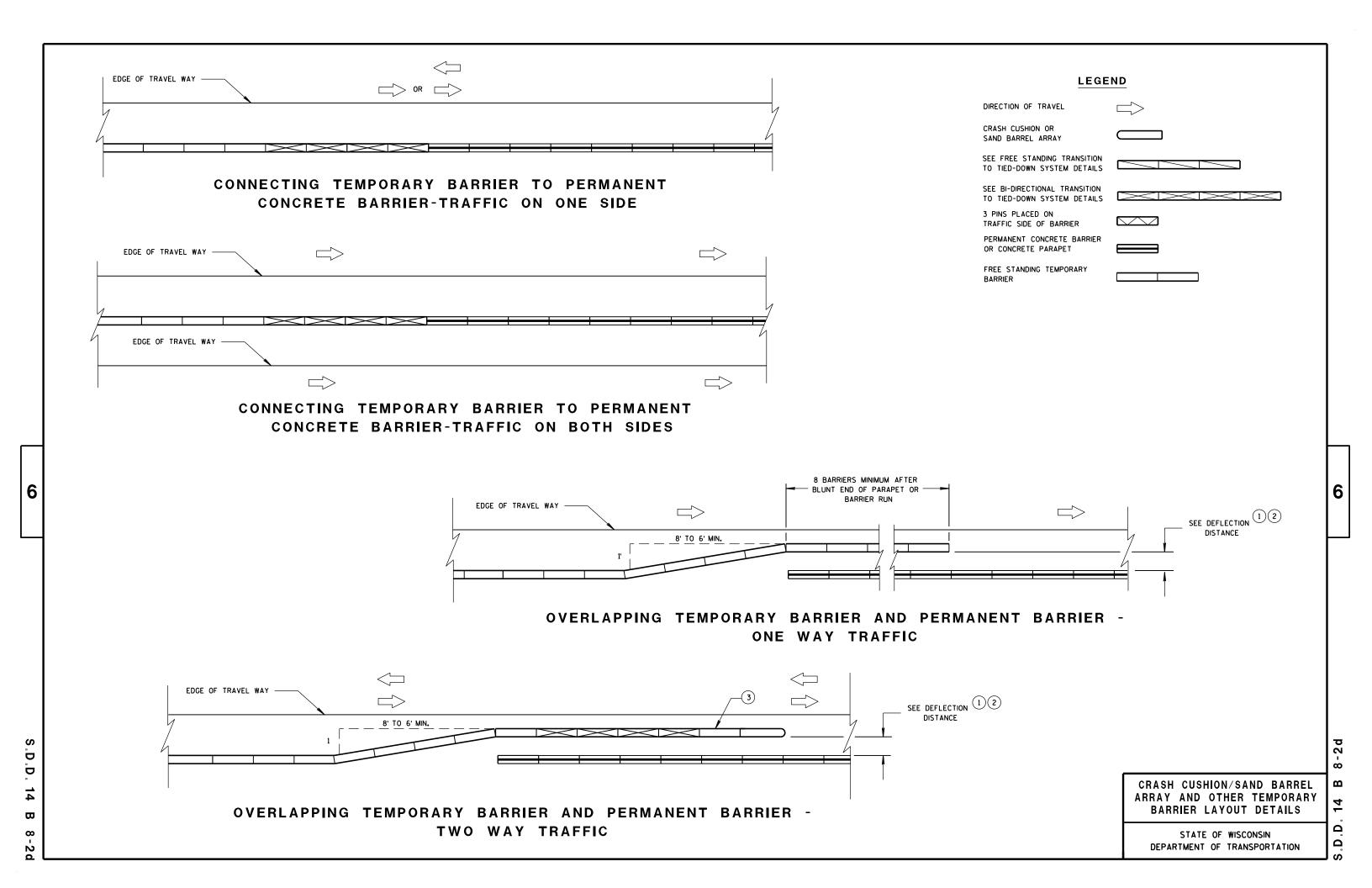
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

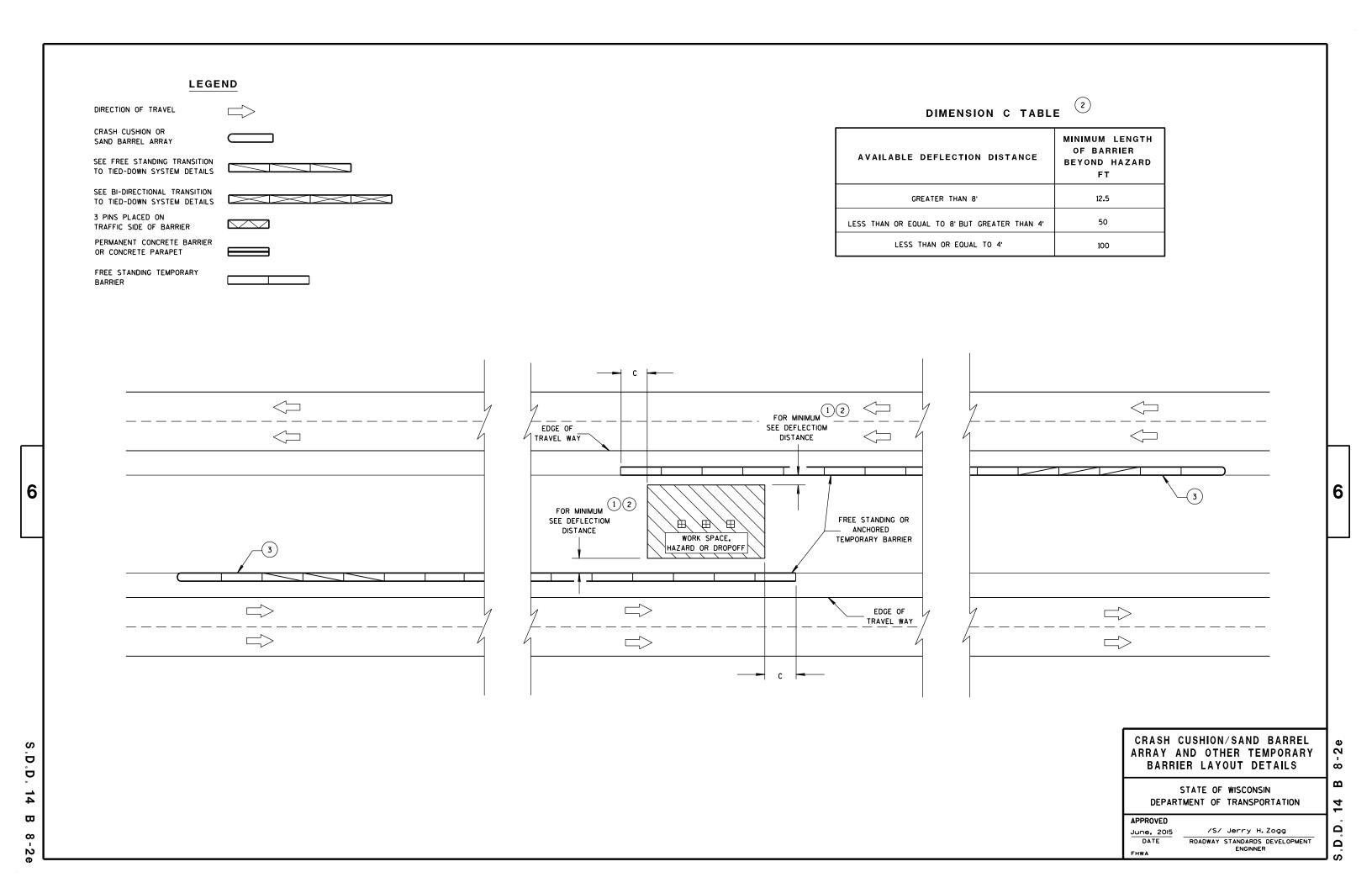
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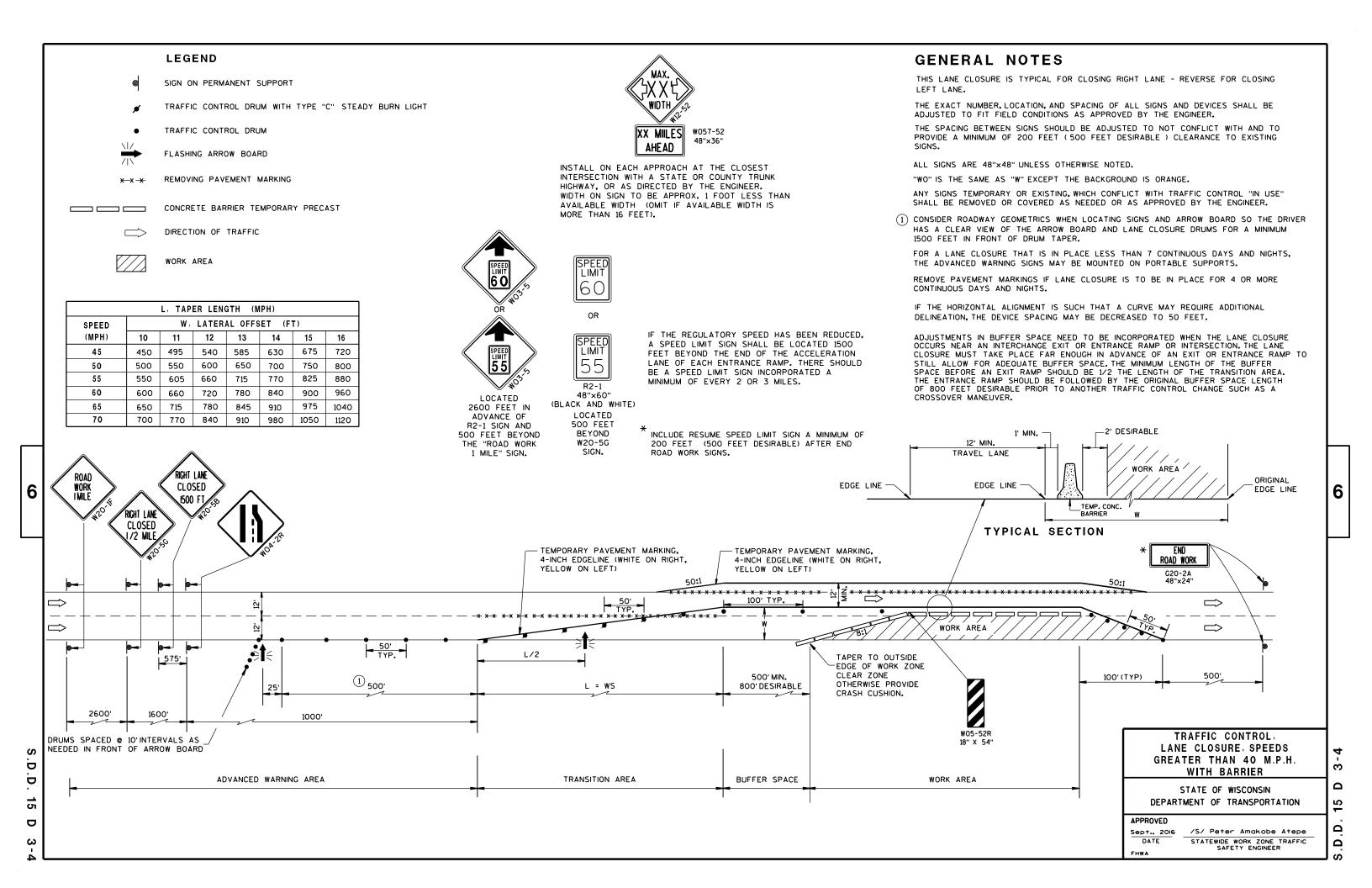
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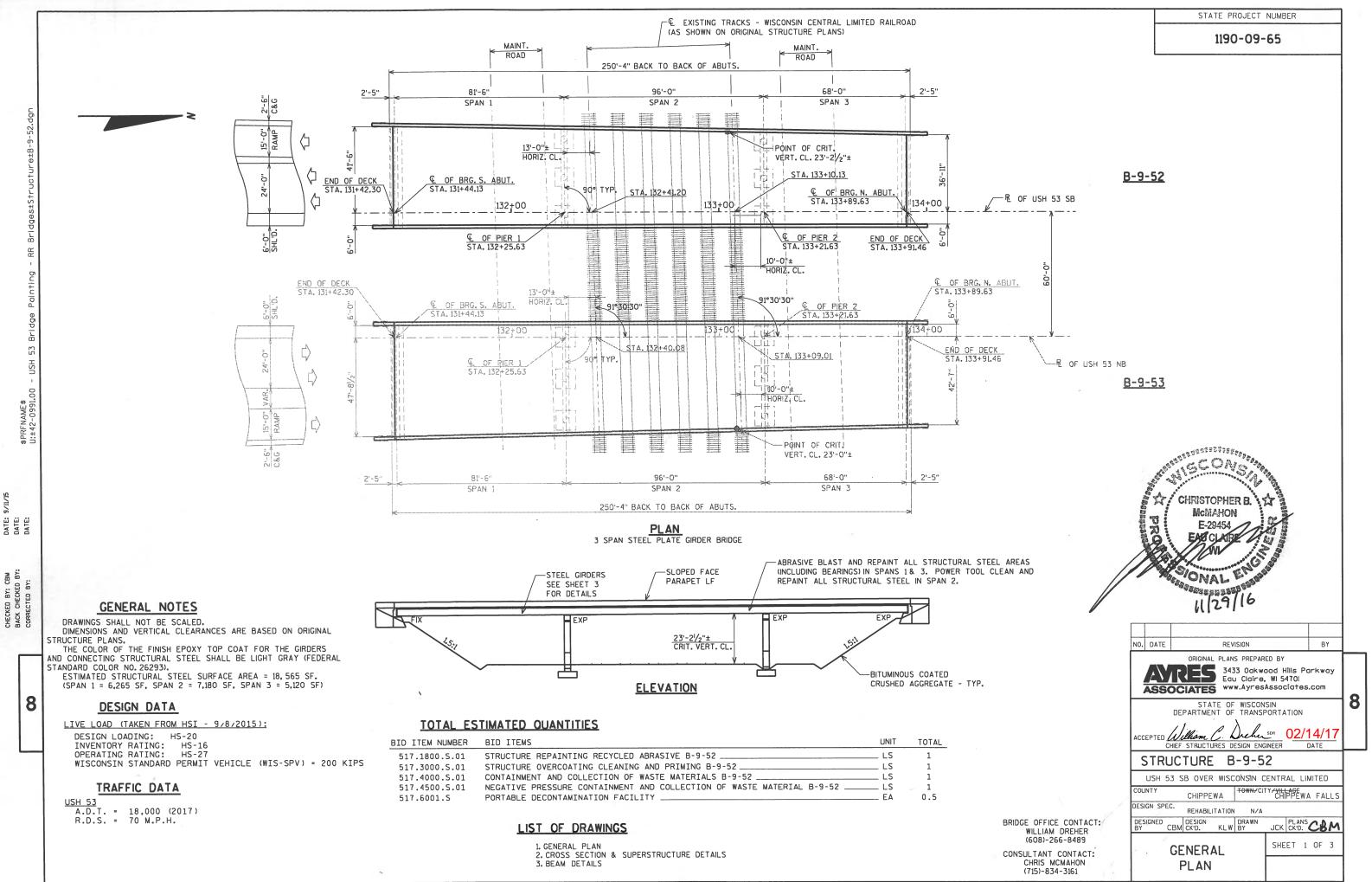




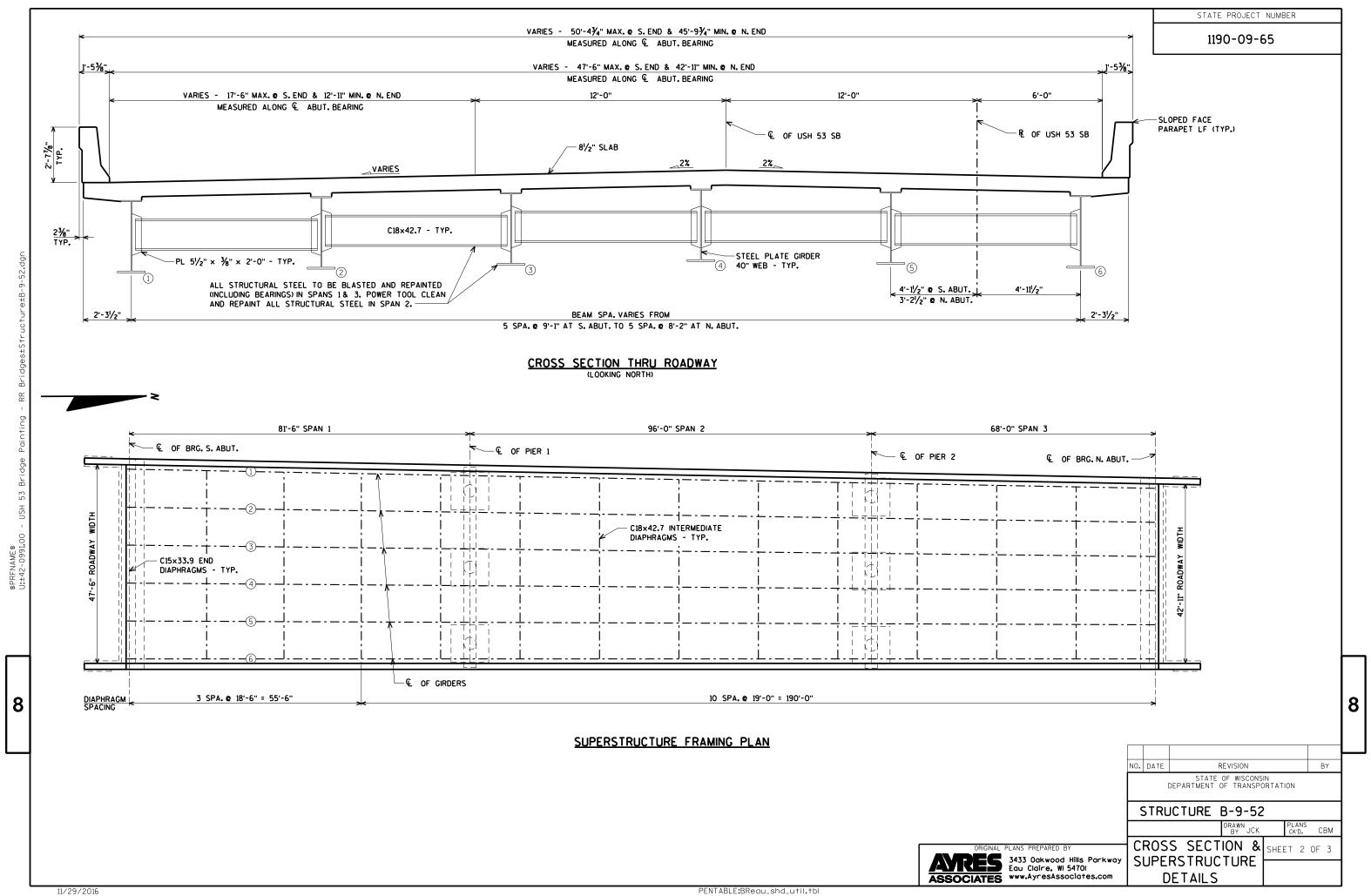




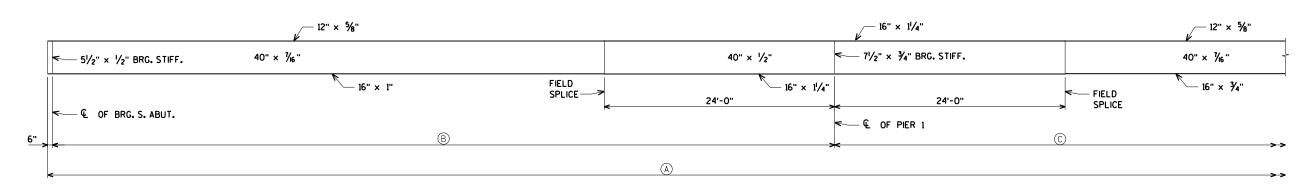




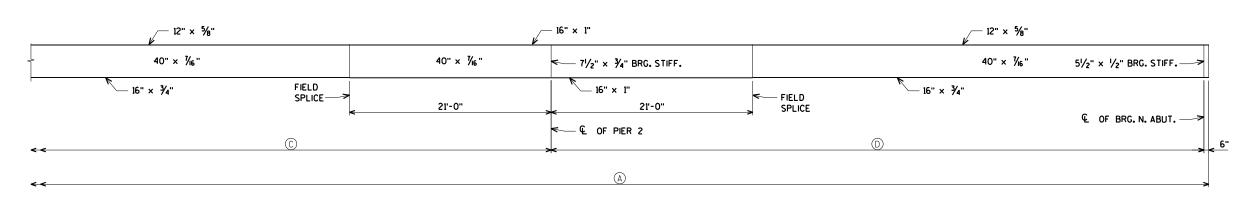
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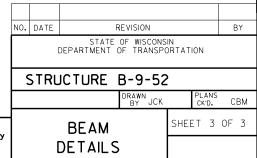


TYPICAL GIRDER ELEVATION



TYPICAL GIRDER ELEVATION

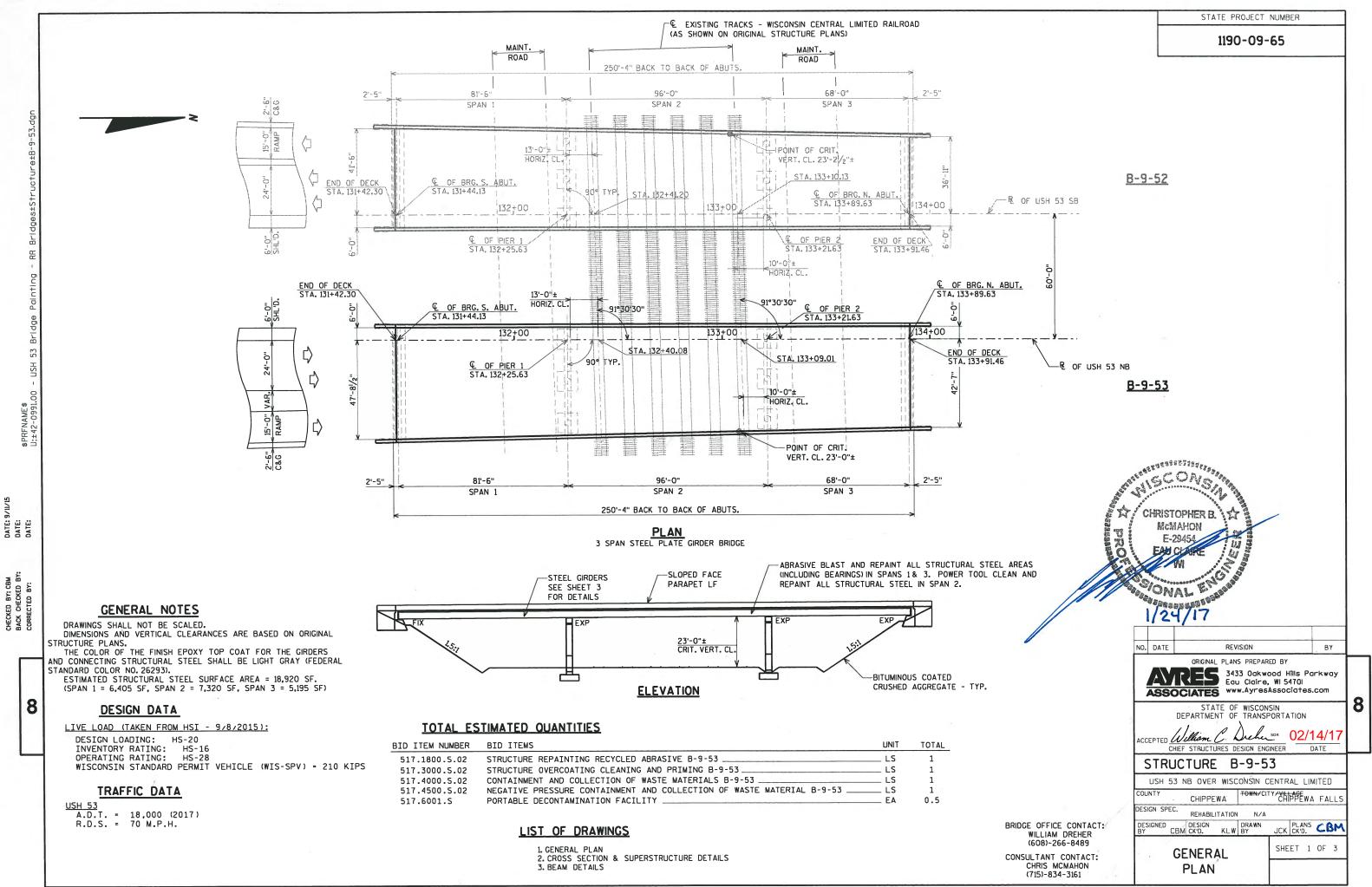
GIRDER	А	В	С	D
1	246'-6%"	81'-63/6"	96'-03/6"	68'-0%"
2	246'-61/6"	81'-61/8"	96'-0%"	68'-01/8"
3	246'-6%"	81'-61/8"	96'-01/8"	68'-0 ¹ / ₁₆ "
4	246'-6%"	81'-61/16"	96'-01/16"	68'-0 ¹ / ₁₆ "
5	246 ' -61/8"	81'-61/16"	96'-01/16"	68'-0"
6	246'-6"	81'-6"	96'-0"	68'-0"

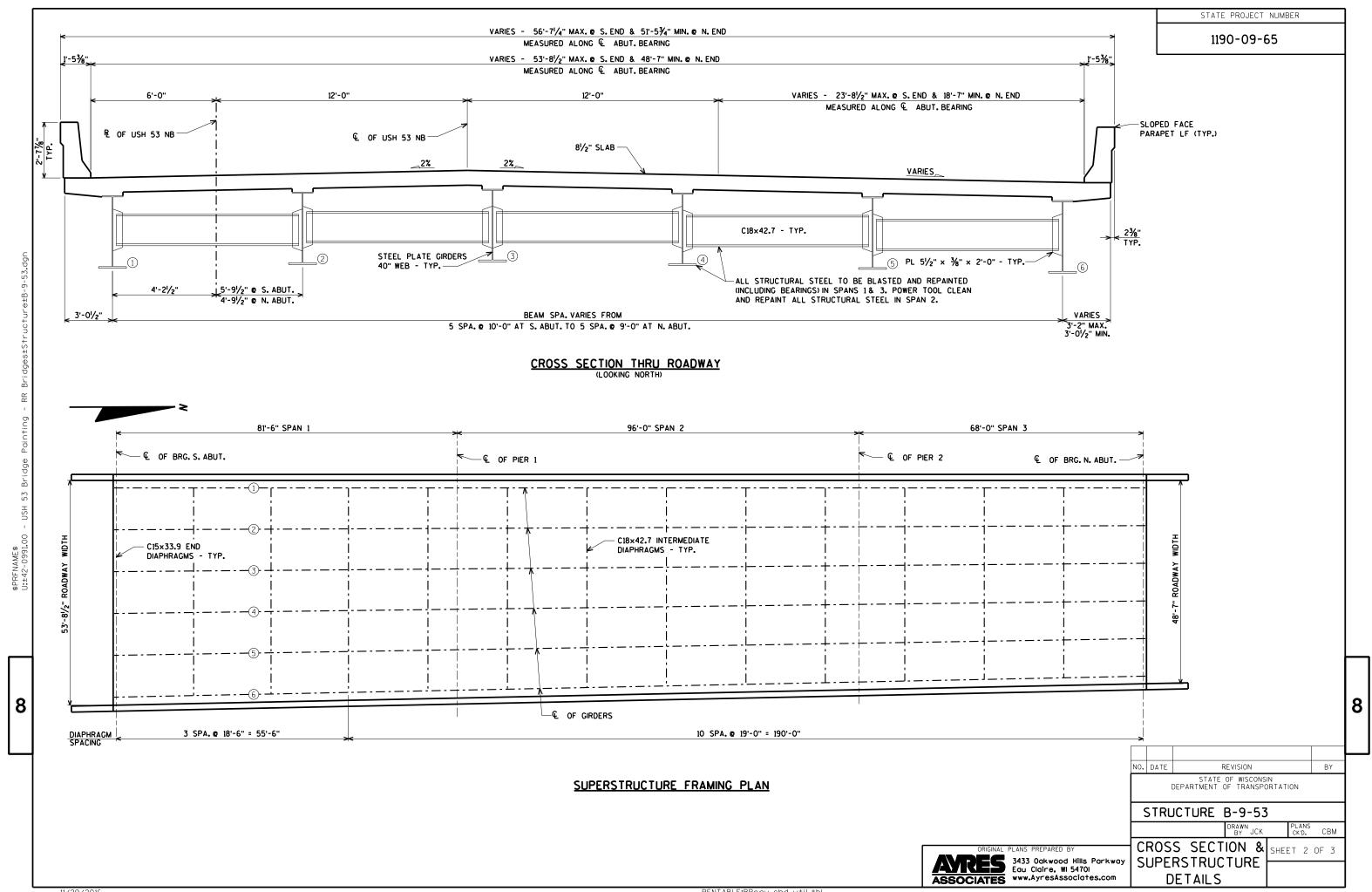


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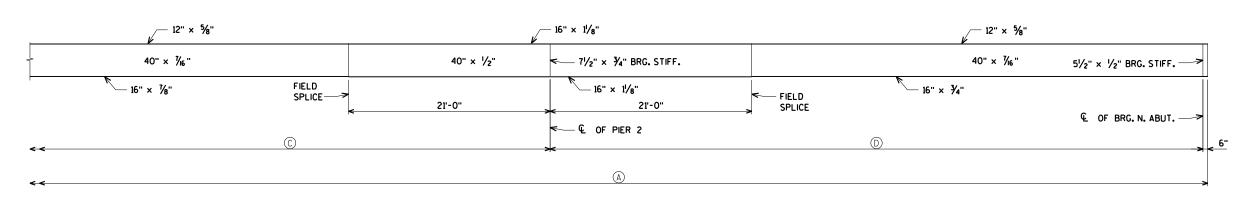
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3433 Odkwood Hills Parkway
Edu Claire, WI 5470I
www.AyresAssociates.com





TYPICAL GIRDER ELEVATION



TITICAL DINDER ELEVATION	TYPICAL	GIRDER	<u>ELEVATION</u>
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GIRDER	А	В	С	D
1	246'-6"	81'-6"	96'-0"	68'-0"
2	246 ' -61/8"	81'-6 / /6"	96'-01/16"	68'-0"
3	246'-6%"	81'-6 ¹ / ₁₆ "	96'-01/16"	68'-0 ¹ / ₁₆ "
4	246'-6%"	81'-61/8"	96'-01/8"	68'-0 '/ 6"
5	246'-61/6"	81'-61/8"	96'-0%"	68'-01/8"
6	246'-6%"	81'-63/6"	96'-0%"	68'-036"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-9-53 PLANS CK'D. CBM SHEET 3 OF 3 BEAM DETAILS

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