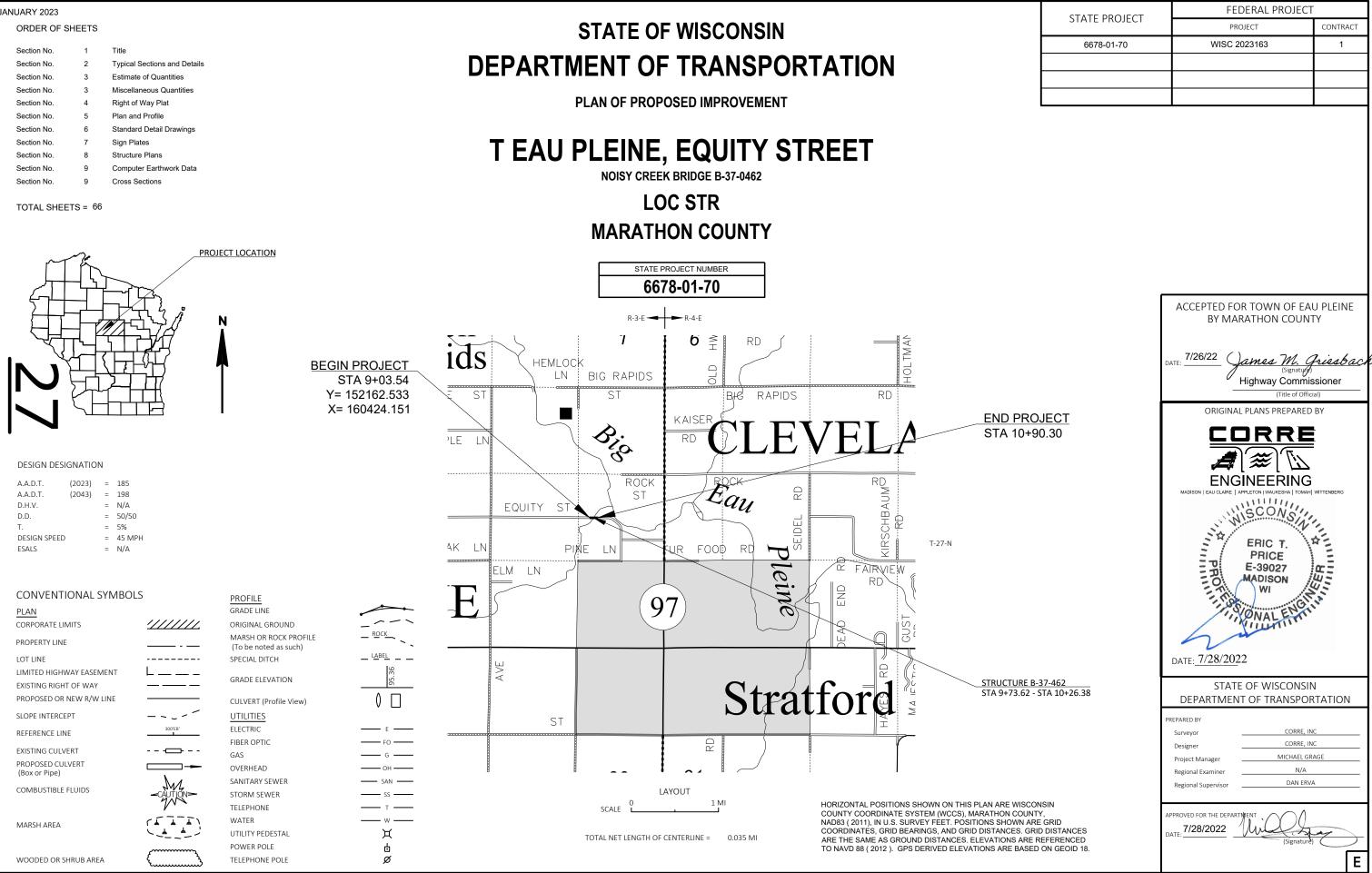
RHI	JANUARY 20
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Section No.	1	Title
Section No.	2	Typical Sections and Detail
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data

STATE OF WISCONSIN

LOC STR



FILE NAME : C:\OD\CORRE, INC\PROJECTS - WI-NC REGION\6678-01-00_MARATHON CO_EQUITY STREET\500_CADD\501_C3D_2018\66780100\SHEETSPLAN\010101-TI.DWG

GENERAL NOTES

2

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

D.O.T. BRIDGE BENCHMARK MONUMENT TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

RIGHT OF WAY LINES SHOWN ON THE CROSS SECTIONS ARE APPROXIMATE.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE OR PARKING LANE.

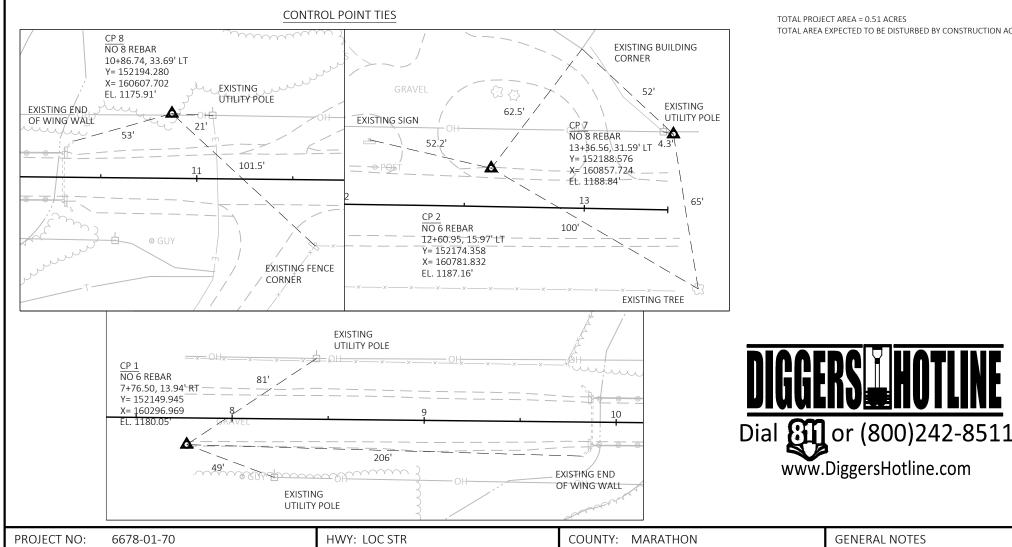
HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.

3.5-INCH ASPHALTIC SURFACE, SHALL BE CONSTRUCTED WITH 1.75-INCH UPPER LAYER AND 1.75-INCH LOWER LAYER.

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

THE QUANTITY OF THE ITEMS FOR EROSION PROTECTION INCLUDES AN UNDISTRIBUTED AMOUNT FOR PROTECTION, CONTROL AND ABATEMENT OF WATER POLLUTION RESULTING FROM SOIL EROSION. THE DISTRIBUTION AND LOCATION OF THESE MATERIALS ARE TO BE DETERMINED BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.



RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
А				В			С			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						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS	DRIVES, WALKS .7585											
ROOFS						.7595						
GRAVEL ROADS, SHOU	JLDERS					.4060						

TOTAL PROJECT AREA = 0.51 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.18 ACRES

DNR CONTACT

DNR WISCONSIN RAPIDS SERVICE CENTER 473 GRIFFITH DRIVE WISCONSIN RAPIDS, WI 54494

ATTN: CASEY JONES TELEPHONE: (715) 213-6571 E-MAIL: CASEY.JONES@WISCONSIN.GOV

CONSULTANT CONTACT CORRE, INC 6510 GRAND TETON PLAZA, SUITE 314 MADISON, WI 53719

ATTN: ERIC PRICE, P.E. TELEPHONE: (608) 826-6146 E-MAIL: EPRICE@CORREINC.COM

UTILITY CONTACTS FRONTIER COMMUNICATIONS 1851 N 14TH AVE

ATTN: JEREMY ZEHM TELEPHONE: (715) 243-9293 E-MAIL: JEREMY.ZEHM@FTR.COM

WAUSAU, WI 54401

-ILE NAIVIE :	C:\DD\COKKE, INC\PROJECTS - WI-NC REGION\6678-01-00_MARATHON CO_EQUITY STREET\500_CADD\501_C3D_2018\66780100\5HEETSPLAN\020101-GN.DWG
	LAYOUT NAME - 020101-gn

PLOT DATE : 11/17/2022 7:34 AM **GENERAL NOTES** PLOT BY :

NICHOLAS WATHKE PLOT NAME

2

DEPARTMENT OF NATURAL RESOURCES

COUNTY CONTACT

MARATHON COUNTY HIGHWAY COMMISSIONER 1430 WEST STREET WAUSAU, WI 54401

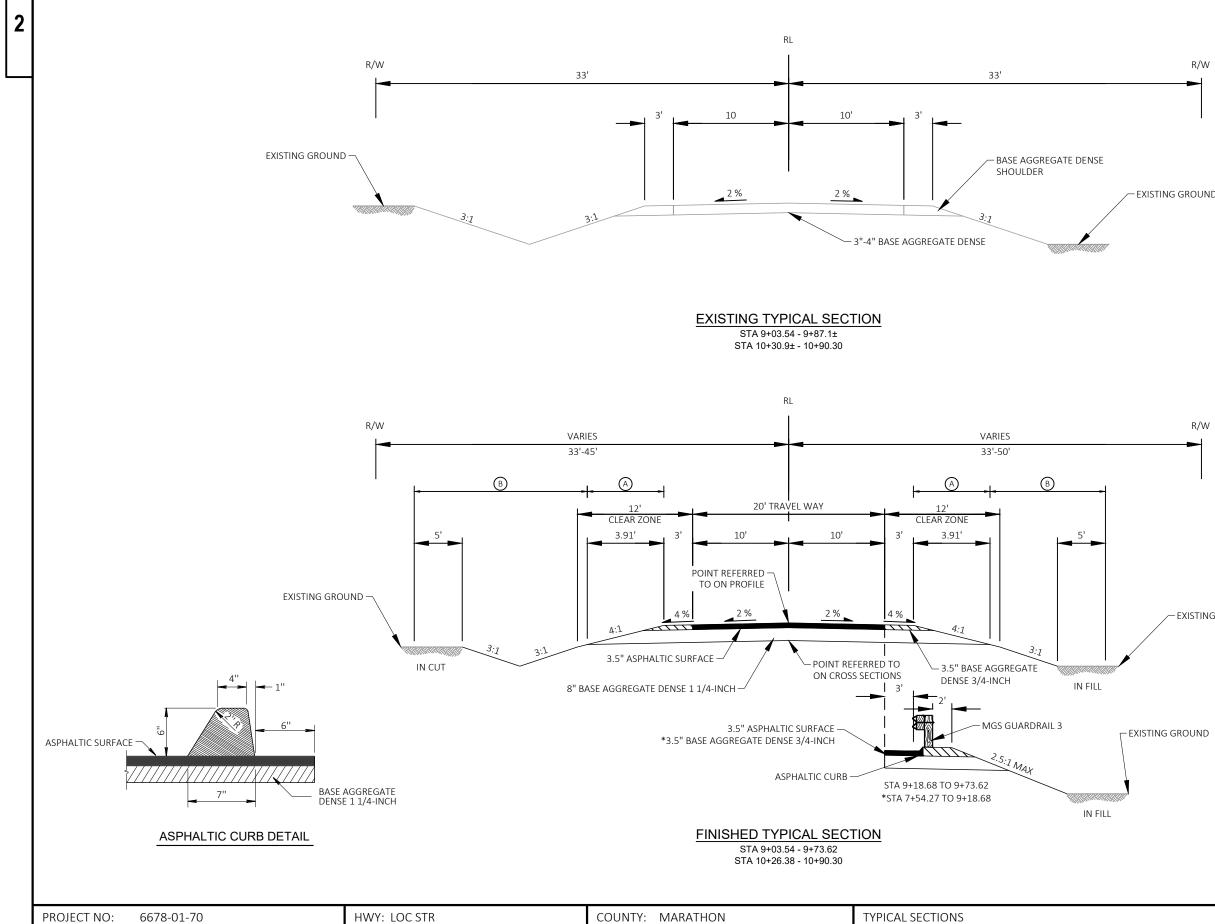
ATTN: JAMES GRIESBACH TELEPHONE: (715) 261-1800 E-MAIL: JAMES.GRIESBACH@CO.MARATHON.WI.US

WISCONSIN PUBLIC SERVICE CORP (ELECTRIC) PO BOX 1166 WAUSAU, WI 54402 ATTN: JESSE PATTEN TELEPHONE: (715) 573-0349 E-MAIL: JESSE.PATTEN@WISCONSINPUBLICSERVICE.COM

> PLOT SCALE : 1 IN:1 FT

SHEET

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FILE NAME : C:\OD\CORRE, INC\PROJECTS - WI-NC REGION\6678-01-00_MARATHON CO_EQUITY STREET\500_CADD\501_C3D_2018\66780100\SHEETSPLAN\020301-TS.DWG PLOT DATE : 11/10/2022 9:48 AM LAYOUT NAME - 1

PLOT BY : NICHOLAS WATHKE

PLOT NAME :



- EXISTING GROUND

R/W

- EXISTING GROUND

LEGEND

A FERTILIZER TYPE B; SEEDING NO. 20

B SALVAGED TOPSOIL; MULCHING; EROSION MAT URBAN CLASS I TYPE B; FERTILIZER TYPE B; SEEDING MIXTURE NO.20

2

WISDOT/CADDS SHEET 42

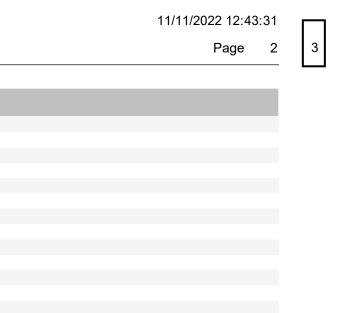
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PLOT SCALE : 1 IN:10 FT Estimate Of Quantities

					6678-01-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	2.000	2.000	
0004	201.0205	Grubbing	STA	2.000	2.000	
0006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-37-301	EACH	1.000	1.000	
8000	205.0100	Excavation Common	CY	116.000	116.000	
0010	206.1001	Excavation for Structures Bridges (structure) 01. B-37-462	EACH	1.000	1.000	
0012	208.0100	Borrow	CY	325.000	325.000	
0014	210.1500	Backfill Structure Type A	TON	630.000	630.000	
0016	213.0100	Finishing Roadway (project) 01. 6678-01-70	EACH	1.000	1.000	
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	40.000	40.000	
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	250.000	250.000	
0022	415.0060	Concrete Pavement 6-Inch	SY	26.000	26.000	
0024	415.0410	Concrete Pavement Approach Slab	SY	88.000	88.000	
0026	416.1010	Concrete Surface Drains	CY	1.000	1.000	
0028	455.0605	Tack Coat	GAL	18.000	18.000	
0030	465.0105	Asphaltic Surface	TON	50.000	50.000	
0032	465.0310	Asphaltic Curb	LF	33.000	33.000	
0034	465.0315	Asphaltic Flumes	SY	9.000	9.000	
0036	502.0100	Concrete Masonry Bridges	CY	259.000	259.000	
0038	502.3200	Protective Surface Treatment	SY	158.000	158.000	
0040	502.3210	Pigmented Surface Sealer	SY	72.000	72.000	
0042	505.0400	Bar Steel Reinforcement HS Structures	LB	6,100.000	6,100.000	
0044	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	33,440.000	33,440.000	
0046	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000	
0048	550.0020	Pre-Boring Rock or Consolidated Materials	LF	138.000	138.000	
0050	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	190.000	190.000	
0052	606.0200	Riprap Medium	CY	3.000	3.000	
0054	606.0300	Riprap Heavy	CY	295.000	295.000	
0056	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	170.000	170.000	
0058	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	1.000	1.000	
0060	614.2500	MGS Thrie Beam Transition	LF	39.400	39.400	
0062	614.2610	MGS Guardrail Terminal EAT	EACH	1.000	1.000	
0064	619.1000	Mobilization	EACH	1.000	1.000	
0066	624.0100	Water	MGAL	2.000	2.000	
0068	625.0500	Salvaged Topsoil	SY	1,090.000	1,090.000	
0070	627.0200	Mulching	SY	890.000	890.000	
0072	628.1504	Silt Fence	LF	417.000	417.000	
0074	628.1520	Silt Fence Maintenance	LF	417.000	417.000	
0076	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000	
0078	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0800	628.2008	Erosion Mat Urban Class I Type B	SY	200.000	200.000	
0082	628.6005	Turbidity Barriers	SY	315.000	315.000	
0084	629.0210	Fertilizer Type B	CWT	0.750	0.750	
0086	630.0120	Seeding Mixture No. 20	LB	34.000	34.000	
0088	630.0200	Seeding Temporary	LB	34.000	34.000	
0090	630.0500	Seed Water	MGAL	26.000	26.000	
0092	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000	
0094	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0096	638.2602	Removing Signs Type II	EACH	4.000	4.000	
	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	



			E	Estimate Of C	Quantities
					6678-01-70
Line	Item	Item Description	Unit	Total	Qty
0100	642.5001	Field Office Type B	EACH	1.000	1.000
0102	643.0420	Traffic Control Barricades Type III	DAY	1,440.000	1,440.000
0104	643.0705	Traffic Control Warning Lights Type A	DAY	2,240.000	2,240.000
0106	643.0900	Traffic Control Signs	DAY	1,120.000	1,120.000
0108	643.5000	Traffic Control	EACH	1.000	1.000
0110	645.0111	Geotextile Type DF Schedule A	SY	90.000	90.000
0112	645.0120	Geotextile Type HR	SY	401.000	401.000
0114	650.4500	Construction Staking Subgrade	LF	96.000	96.000
0116	650.5000	Construction Staking Base	LF	96.000	96.000
0118	650.6501	Construction Staking Structure Layout (structure) 01. B-37-462	EACH	1.000	1.000
0120	650.9911	Construction Staking Supplemental Control (project) 01. 6678-01-70	EACH	1.000	1.000
0122	650.9920	Construction Staking Slope Stakes	LF	245.000	245.000
0124	715.0502	Incentive Strength Concrete Structures	DOL	1,290.000	1,290.000
0126	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000
0128	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+09	EACH	1.000	1.000
0130	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0132	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000



BASE AGGREGATE ITEMS

CLEARING AND GRUBBING

				201.0105	201.0205	
				CLEARING	GRUBBING	
STATION	TO	STATION	LOCATION	STA	STA	
8+00	-	9+00	WEST APPROACH	1	1	
10+00	-	11+00	EAST APPROACH	1	1	
			TOTAL 0010	2	2	

				305.0110 BASE	305.0120 BASE AGGREGATE	624.0100
				AGGREGATE	DENSE 1 1/4-	
				DENSE 3/4-INCH	INCH	WATER
STATION	TO	STATION	LOCATION	TON	TON	MGAL
7+54	-	9+04	MGS EAT RT	20	40	
9+04	-	9+54	WEST APPROACH	10	110	1
10+46	-	10+91	EAST APPROACH	10	100	1
			TOTAL 0010	40	250	2

18

TOTAL 0010

			<u>CONCRETE</u>	PAVEMENT ITE	<u>MS</u>						
										ASP	HALT ITEMS
				415.0060	415.0410	416.1010					
				CONCRETE	CONCRETE						455.0605
				PAVEMENT 6-	PAVEMENT	CONCRETE					
				INCH	APPROACH SLAB	SURFACE DRAINS					TACK COAT
STATION	TO	STATION	LOCATION	SY	SY	CY	STATION	ТО	STATION	LOCATION	GAL
9+04	-	9+54	WEST APPROACH	13	44	1	9+04	-	9+54	WEST APPROACH	10
10+46	-	10+91	EAST APPROACH	13	44		10+46	-	10+91	EAST APPROACH	8

1

			205.0100 COMMON EXCAVATION (1) s		SALVAGED/UNUSABLE	AVAILABLE		EXPANDED FILL (5)		
DIVISION	FROM/TO STATION	LOCATION	CUT (2)	EBS EXCAVATION	PAVEMENT MATERIAL (3)	MATERIAL (4)	UNEXPANDED FILL	FACTOR 1.25	MASS ORDINATE +/- (6)	208.0100 BORROW
DIVISION 1 - EQUITY ST	7+77 TO 10+91	EQUITY ST	116		0	116	353	441	-325	
DIVISION 1 SUBTOTAL			116	0	0	116	353	441	-325	325
GRAND TOTAL			116	0	0	116	353	441	-325	325
		116								

NOTES:

TOTAL 0010

26

88

(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(3) SALVAGED/UNUSABLE PAVEMENT MATERIAL

(4) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(5) EXPANDED FILL FACTOR = 1.25

(6) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION. (7) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

PROJECT N	IO: 6678-01-70	HWY: LOC STR	COUNTY: MARATHON		MISCELLANEOUS QUANTITIES	
			PLOT DATE :	11/10/2022	PLOT BY: CORRE, INC.	PLOT NAME :

465.0105 ASPHALTIC	465.0310
SURFACE	ASPHALTIC CURB
TON	LF
27	33
23	
50	33

SHEET

Ε

	A	SPHALTIC	FLUME ITEMS				<u>MGS GU</u>	ARDRAIL ITEMS						620 1504	620 1520	620 6005
	<u>-</u>	465.0 ASPHA	0315 606.03	200 645.0 GEOTEXT				614.2 MGS T BEA	HRIE	2610 ARDRAIL	station to) ςτατιών	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.6005 TURBIDITY BARRIERS SY
		FLUI						TRANSI			STATION TO	JANON	LOCATION	LI	LI	10
STATION	LOCATION	S	Y CY	S	<u> </u>	TATION TO STATI	ON LOCATI	ON LF	EA	СН	7+73 -	9+44	WEST APPROACH R	T 180	180	
9+07 RT	WEST APPROACH	9	3	6							9+03 -		WEST APPROACH LT	T 92	92	
9+07 KI	WEST APPROACE		5	0		8+54 - 9+5	4 SW BRIDGE Q	UADRANT 39.	4 1	1	9+9		WEST ABUTMENT			170
	TOTAL 0010	9	3	6			TOTAL 0	010 39.	1	1	10+0 10+11 -		EAST ABUTMENT EAST APPROACH RT	 Г 85	 85	145
							TOTAL	55.		±	10+11 -		EAST APPROACH LT		60	
					LANDS	CAPING ITEMS							TOTAL 0010	417	417	315
				625.0500		628.2008	629.0210	630.0120	630.0200	630.0500						
						EROSION MAT							EROSION C	ONTROL ITEMS (C	<u>ONT'D)</u>	
				SALVAGED		URBAN CLASS I	FERTILIZER TYPE	SEEDING	SEEDING					620.4005	620 4040	
			LOCATION	TOPSOIL	MULCHING	TYPE B SY	B	MIXTURE NO. 20	TEMPORARY	SEED WATER					628.1910 DBILIZATIONS	
	STATION TO	STATION	LUCATION	SY	SY	51	CWT	LB	LB	MGAL			M		MERGENCY	
	7+54 -	8+78	WEST APPROACH RT	340	340		0.23	10	10	8					EROSION	
	8+78 -	9+44	WEST APPROACH RT			160	0.11	5	5	4					CONTROL	
	9+09 -		WEST APPROACH LT		100		0.07	3	3	2			LOCATION	EACH	EACH	
			EAST APPROACH RT EAST APPROACH LT	120 150	120 150		0.08	4 5	4 5	3 4			PROJECT	5	2	
	10+34 -		NDISTRIBUTED (259		180	40	0.11 0.15	5	5	4 5			FROJECT	5	2	
			(20)						·				TOTAL 0010	5	2	
			TOTAL 0010	1,090	890	200	0.75	34	34	26						
													TRAFF	IC CONTROL ITEM	<u>IS</u>	
			SIGNING	ITEMS									643.0420	643.0705	643.0900	643.5000
			634.0614	637.2230					642.5001				TRAFFIC	TRAFFIC		
			POSTS WOOD	037.2230				FI	ELD OFFICE				CONTROL	CONTROL		
			4X6-INCH X 14-	SIGNS TYPE II				LOCATION	TYPE B EACH				BARRICADES			TRAFFIC
			FT	REFLECTIVE F				LUCATION	LACIT		I OCATION	DURATION	TYPE III DAY	LIGHTS TYPE A DAY	CONTROL SIGNS DAY	CONTROL EACH
	LOCATION		EACH	SF	REMARK	S		PROJECT	1			201011011				E tott
	OSED STRUCTURE B	-37-462	4	12	PROPOSED BRIDGE H	IASH MARKS;		TOTAL 0010	1		PROJECT	80 DAYS	1,440	2,240	1,120	1
THOIC		57 402	-	12	W5-52L&W	5-52R			-		TOTAL 0010)	1,440	2,240	1,120	1
	TOTAL 0010	-	4	12				C	ONSTRUCTION S	TAKING ITEMS						
N	IOTE: PLACE BRIDG	E HASH MAR	K SIGNS PER SDD "SI	GNING AND MAR	KING FOR TWO LANE B	RIDGES"			650.4500	650.5000	650.9911.01	650.9920				
									000.1000	000.0000	CONSTRUCTION				999.2000. INSTALLING A	
		REM	IOVING SIGN ITE	<u>MS</u>							SUPPLEMENTAL				MAINTAININ	
									CONSTRUCTIO		CONTROL	CONSTRUCTIO			BIRD DETERRI	
		638.		3000					STAKING SUBGRADE	CONSTRUCTION STAKING BASE	(PROJECT) (01. 6678-01-70)	STAKING SLO STAKES	PE		SYSTEM	
		REMC	REMO IVING SMAI	DVING L SIGN		57	ATION TO STATIO	ON LOCATION	LF	LF	EACH	LF			(STATION 10+	09)
		SIGNS		ORTS				200,000			2.01			LOCAT	TION EACH	
LO	DCATION	EA		СН	REMARKS		7+54 - 9+03					149		PROJ	ECT 1	
							9+03 - 9+54			51		51				
		4	ļ .	4 EXIST	TNG BRIDGE HASH MAF	IKS 1	.0+46 - 10+9	1 EAST APPROACH PROJECT	I 45 	45 		45		TOTAL	0020 1	
ISTING STR	XUCTURE P-37-301															
	TAL 0010	2	ļ	1				τοται οστο	96	96	1	245				
(ISTING STR TOT T NO:		2		4 HWY: LOC ST	R		NTY: MARATHO	TOTAL 0010	96 MISCE	96 ELLANEOUS QUAN		245			SHEET	

EROSION CONTROL ITEMS

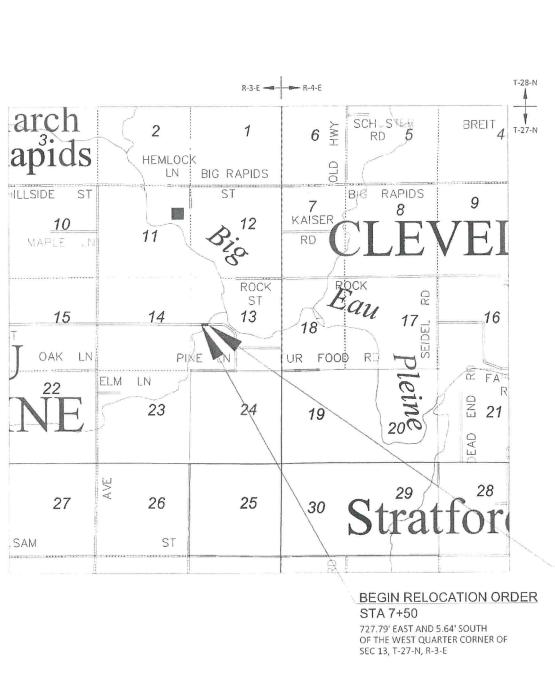
IERWISE AR TO THE NEW REFERENCE DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPEN LINES.

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.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON

THE DETAIL PAGES. FILE NAME : C/\OD/CORRE, INC\PROJECTS - WI-NC REGION/6678-01-00_MARATHON CO_EQUITY STREET\500_CADD\501_C3D_2018/66780100\SHEETSPLAN/040101-RP.DWG

	CONVE	NTIONAL SYMBOLS		
SECTION LINE		SECTION	R/W MONUN (TO BE SET)	AENT 💩
QUARTER LINE		CORNER SYMBOL	NON-MONUN	
SIXTEENTH LINE		SECTION	R/W POINT	
NEW REFERENCE LINE	\sim		FOUND IRON (1-INCH UNLE	PIN IP SS NOTED) *
NEW R/W LINE		GEODETIC SURVEY MONUMENT	Г	0
EXISTING R/W OR HE LINE PROPERTY LINE	P.L.	SIXTEENTH CORNER MONUMER		۲
		SIGN (> sign	OFF-PREMISE	(#1-25)
LOT, TIE & OTHER MINOR LINES		Jin g	SIGN	2 % sign
SLOPE INTERCEPT			COMPENSABLE	NON-COMPENSABLE
CORPORATE LIMITS	111111111	ELECTRIC POLE TELEPHONE POLE	b	с с
UNDERGROUND FACILITY	(TYPE)	PEDESTAL (LABEL TYPE)	×.	ø H
(COMMUNICATIONS, ELECTRIC, ETC) NEW R/W (FEE OR HE)		(TV, TEL, ELEC, ETC.)	~	д
(HATCHING VARIES BY OWNER)		ACCESS RESTRICTED BY ACQUISI	TION	11111
TEMPORARY LIMITED EASEMENT AREA	y an	NO ACCESS (BY STATUTORY AUT	HORITY)	*******
EASEMENT AREA (PERMANENT LIMITED OR	<u>UHA</u>	ACCESS RESTRICTED (BY PREVIO PROJECT OR CONTROL)	U5	<u> </u>
RESTRICTED DEVELOPMENT)		NO ACCESS (NEW HIGHWAY)		
TRANSMISSION STRUCTURES		PARCEL NUMBER (25)	UTILITY NUM	ABER (40)
BUILDING TO BE REN	NOVED	\bigcirc		T
	т	PARALLEL OFFSETS	<u> </u>	
			,	
CONV	ENTIONAL [.] A	BBREVIATIONS		
ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC	
ACRES	AC	POINT OF INTERSECTION	PI	
AHEAD	AH	PROPERTY LINE RECORDED AS	PL (100')	
ALUMINUM	ALUM		(100) R/I	
AND OTHERS	ET AL	REEL / IMAGE	R/L	
BACK	BK	REFERENCE LINE	0.000	
BLOCK	BLK	REMAINING	REM	
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT	RDE	
CERTIFIED SURVEY MAP	CSM	EASEMENT	07	
CONCRETE	CONC	RIGHT	RT	
COUNTY	CO	RIGHT OF WAY	R/W	
COUNTY TRUNK HIGHWAY	CTH	SECTION	SEC	
DISTANCE	DIST	SEPTIC VENT	SEPV	
CORNER	COR	SQUARE FEET	SF	
DOCUMENT NUMBER	DOC	STATE TRUNK HIGHWAY	STH	
EASEMENT	EASE	STATION	STA	
EXISTING	EX	TELEPHONE PEDESTAL	TP	
GAS VALVE	GV	TEMPORARY LIMITED	TLE	
GRID NORTH	GN	EASEMENT TRANSPORTATION PROJECT PL	AT THE	
HIGHWAY EASEMENT	HE	UNITED STATES HIGHWAY	USH	
IDENTIFICATION LAND CONTRACT	ID LC	VOLUME	V	
LAND CONTRACT	LT	VOLUME		
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NATIONAL GEODETIC SURVEY	NGS	CURVE DATA ABBRE		
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OUTLOT	OL	RADIUS	R	
PAGE	Р	DEGREE OF CURVE	D	
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PERMANENT LIMITED	PLE	LENGTH OF CURVE TANGENT	L T	
EASEMENT		DIRECTION AHEAD	DA	
POINT OF BEGINNING	POB	DIRECTION BACK	DB	
POINT OF CURVATURE	PC	CONVENTIONAL UTILITY		ç
27		WATER		
. "		GAS	G	-
		TELEPHONE	1	-
		OVERHEAD TRANSMISSION LINES	OH	
		ELECTRIC CABLE TELEVISION	E	-
		FIBER OPTIC	F0	-
		SANITARY SEWER	SAN	
		STORM SEWER		-
NOTES:		ELECTRIC TOWER	\boxtimes	
MARATHON COUNTY, NAD83	(2011)IN US SL	NSIN COUNTY COORDINATE SY: RVEY FEET. VALUES SHOWN AF DISTANCES MAY BE USED AS GF	RE GRID COOP	RDINATES,
ALL NEW RIGHT-OF-WAY MON NOTED, AND WILL BE PLACED	NUMENTS WILL PRIOR TO THE (BE TYPE 2 (TYPICALLY ¾" X 24" COMPLETION OF THE PROJECT.	IRON REBARS	5), UNLESS OTHE
DIMENSIONING FOR THE NEW	RIGHT-OF-WA	IS MEASURED ALONG AND PE	RPENDICULA	R TO THE NEW F



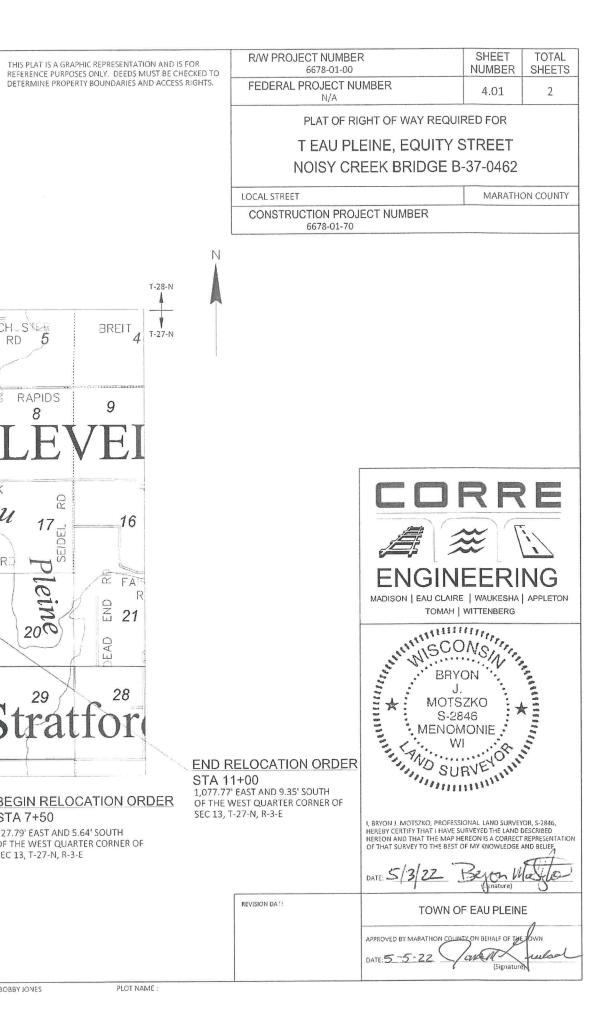
LAYOUT 1.0 MI SCALE

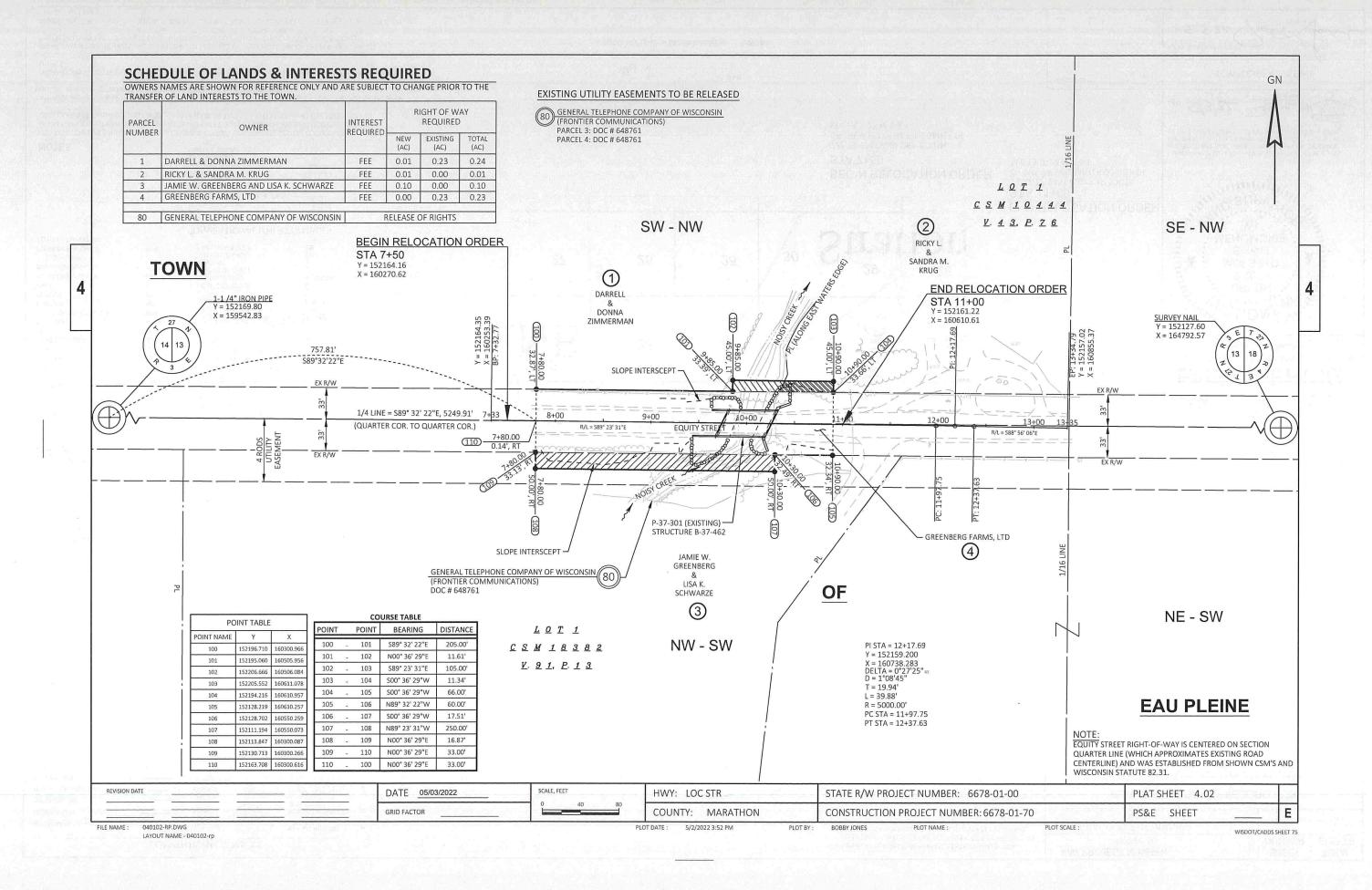
TOTAL NET LENGTH OF CENTERLINE = 0.066 MI.

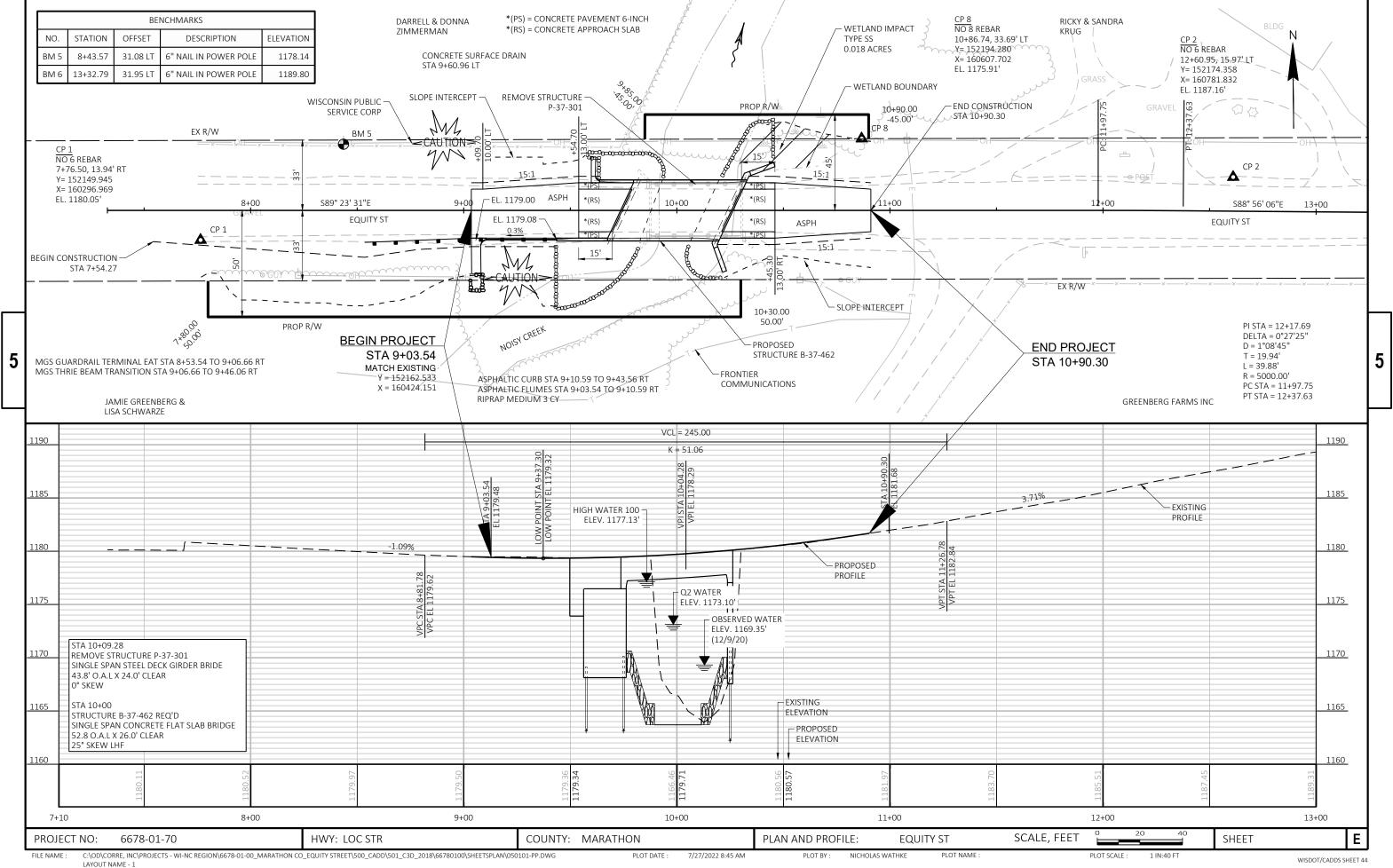
PLOT DATE: 5/2/2022 3:51 PM

PLOT NAME :

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR



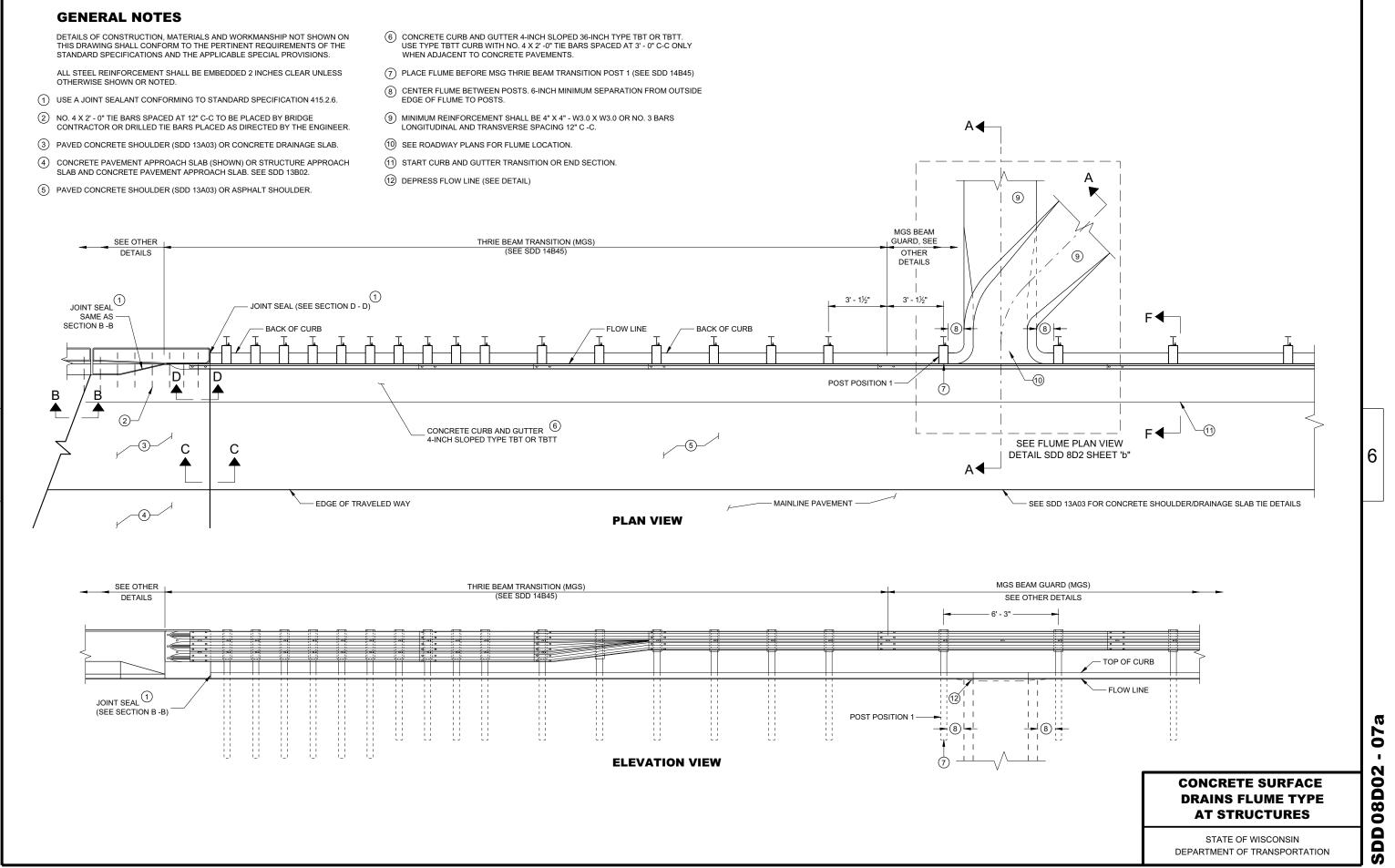




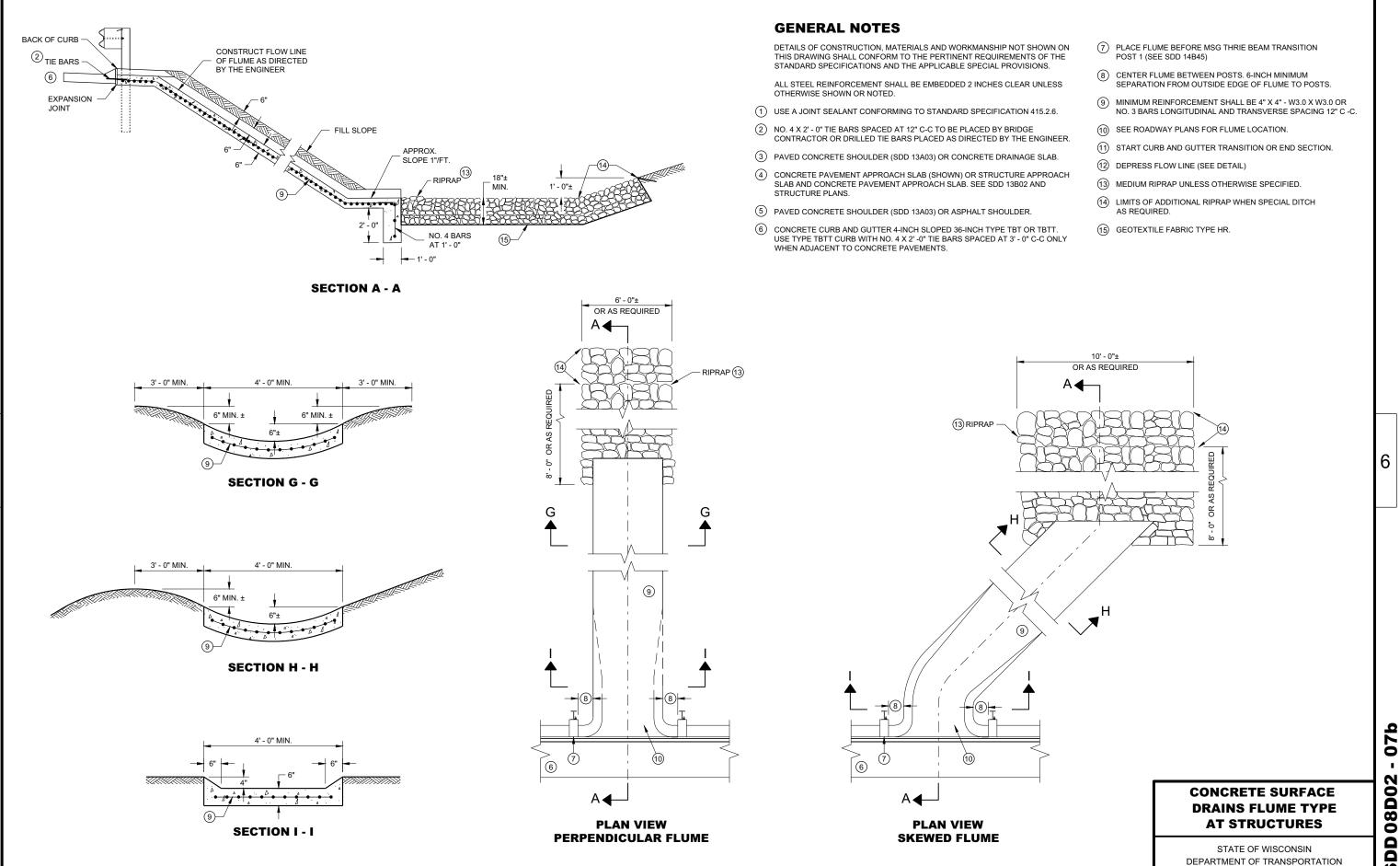
WISDOT/CADDS SHEET 44

Standard Detail Drawing List

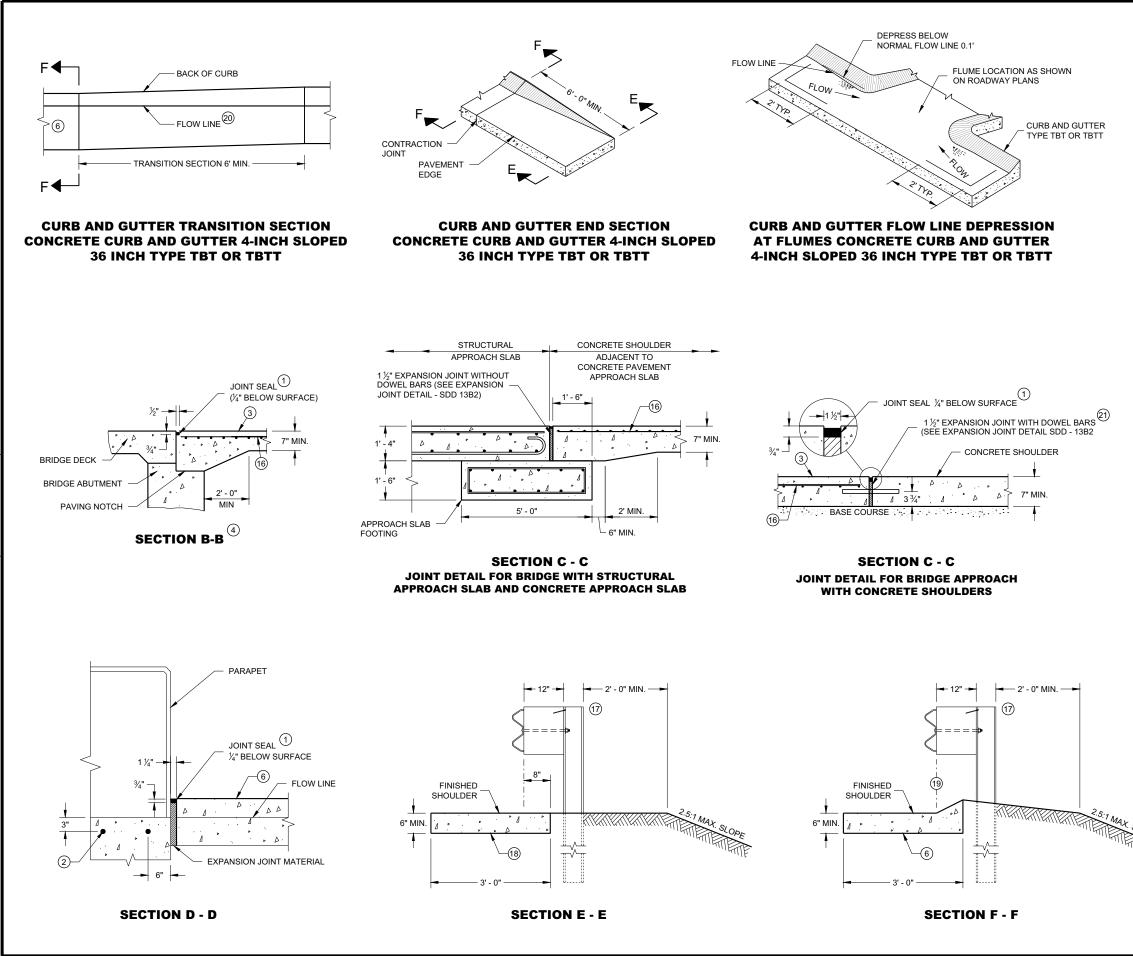
08D02-07A 08D02-07B 08D02-07C 08D04-06	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
13A03-06	CONCRETE PAVEMENT SHOULDERS
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14в42-07в	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)
14в44-04в	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)
14в45-05в	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)
14в45-05н	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)
14в45-05к	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-10	SIGNING & MARKING FOR TWO LANE BRIDGES
15С11-09В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



SDD 08D02 - 07a



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SDD 08D02 - 07

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GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE 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.
- (1) SEE ROADWAY PLANS FOR FLUME LOCATION.
- (1) 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.
- (7) 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.

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

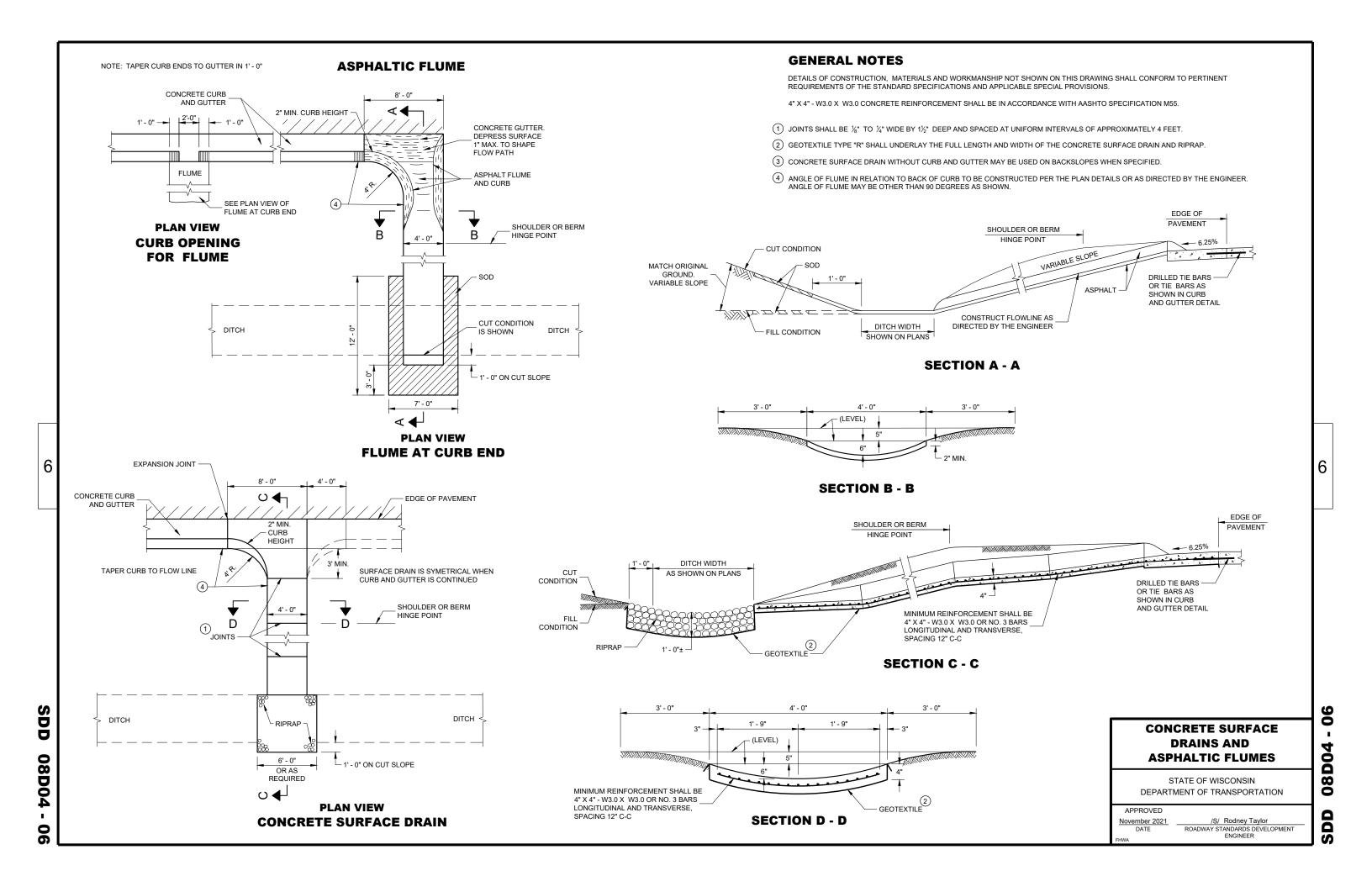
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

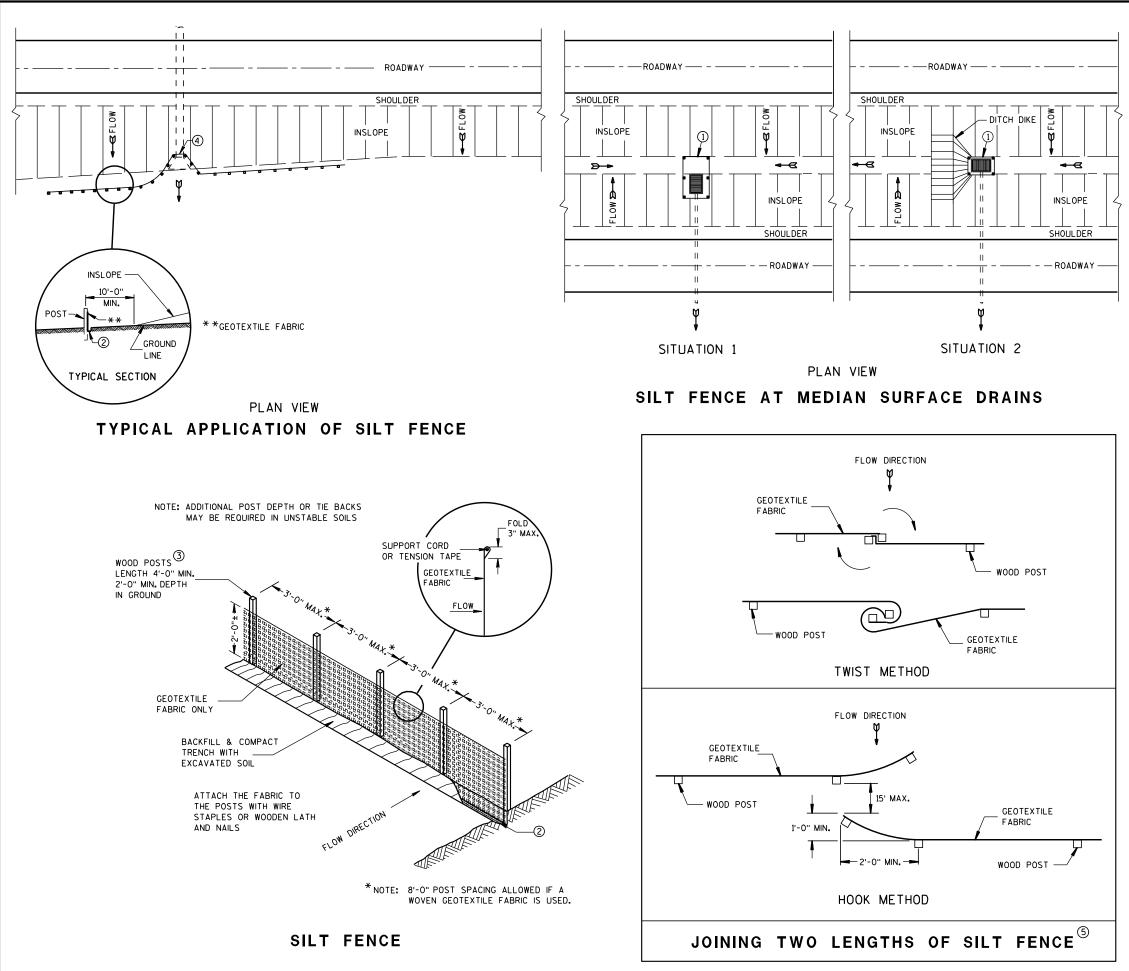
APPROVED February 2020 DATE

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER 6

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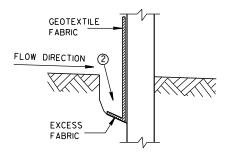
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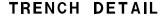
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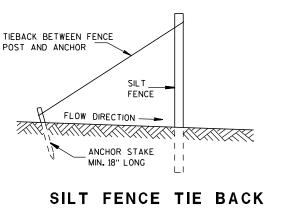
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

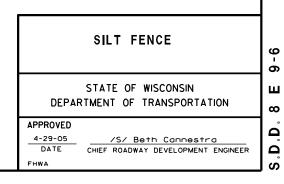
- \bigcirc horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3) WOOD POSTS SHALL BE A MINIMUM SIZE OF $1/_8$ " X $1/_8$ " 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.

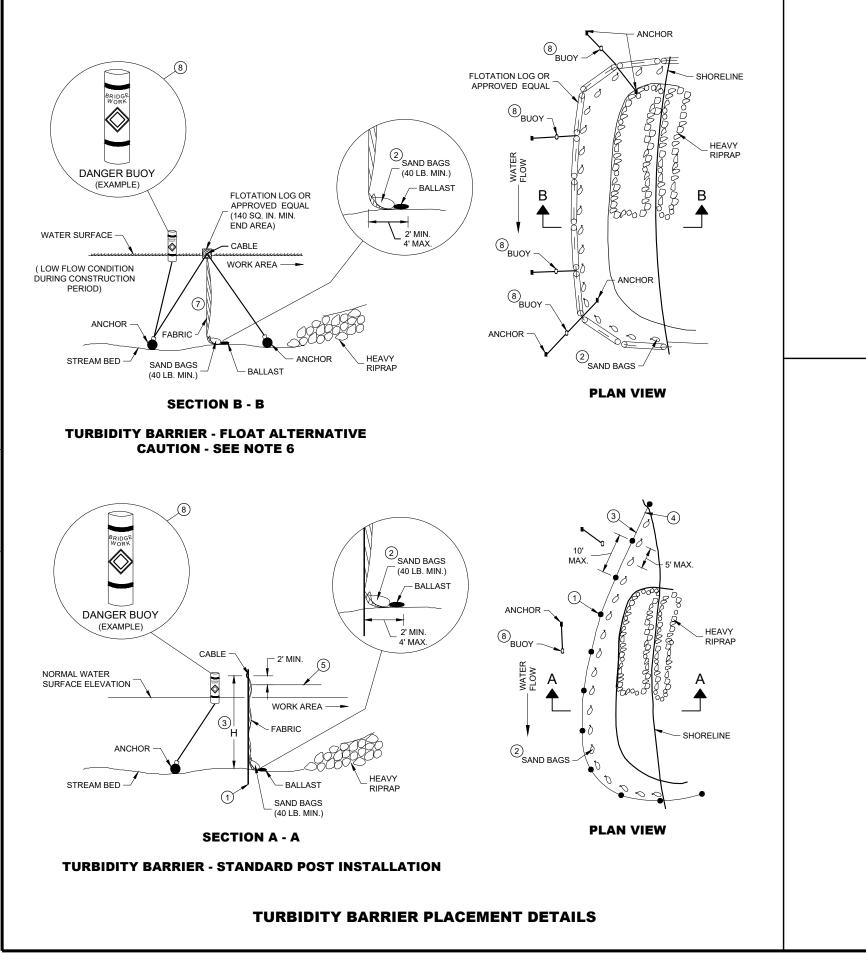




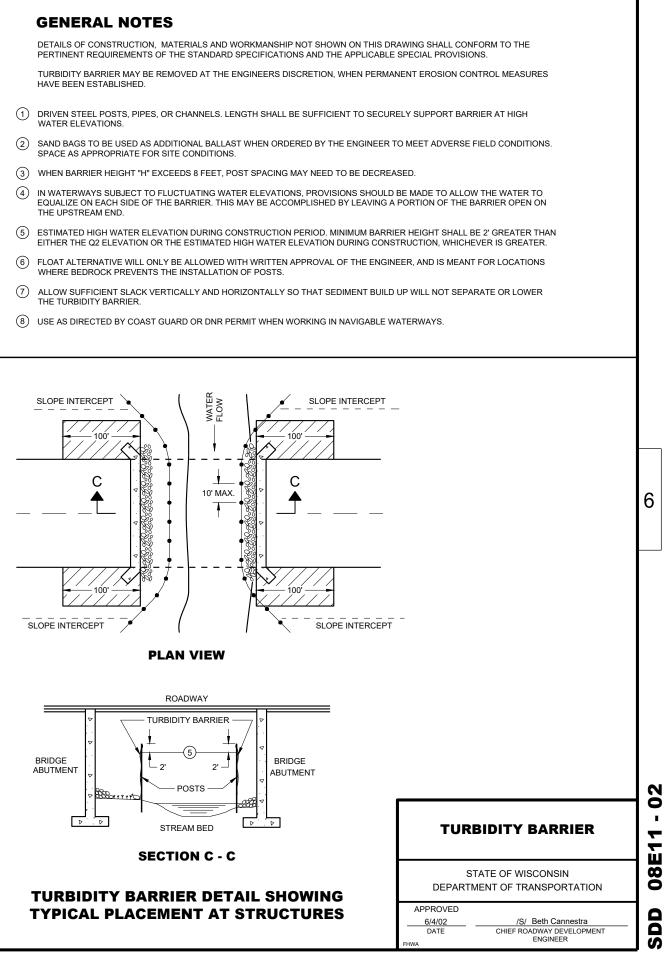


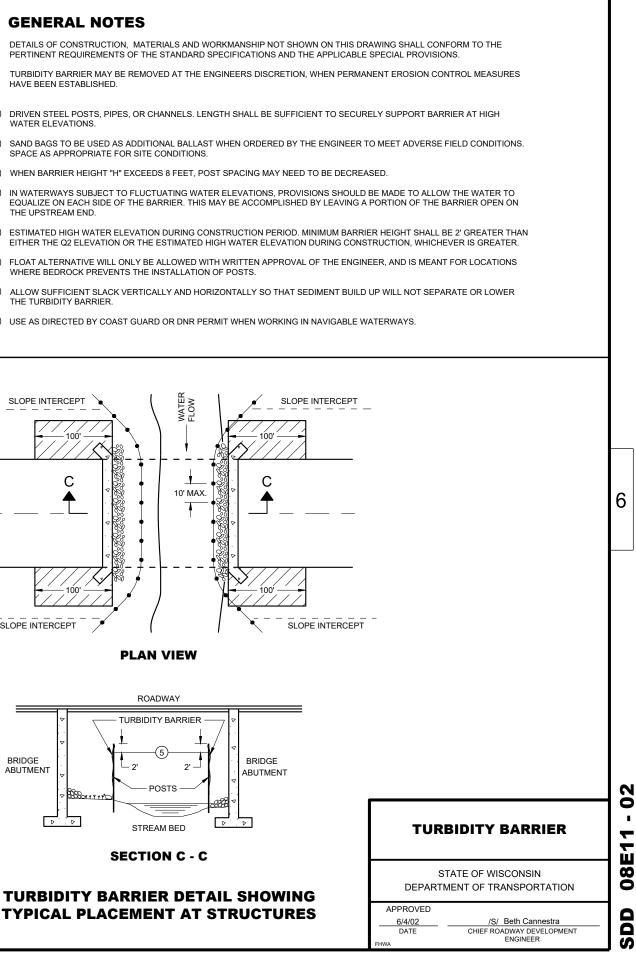
(WHEN REQUIRED BY THE ENGINEER)



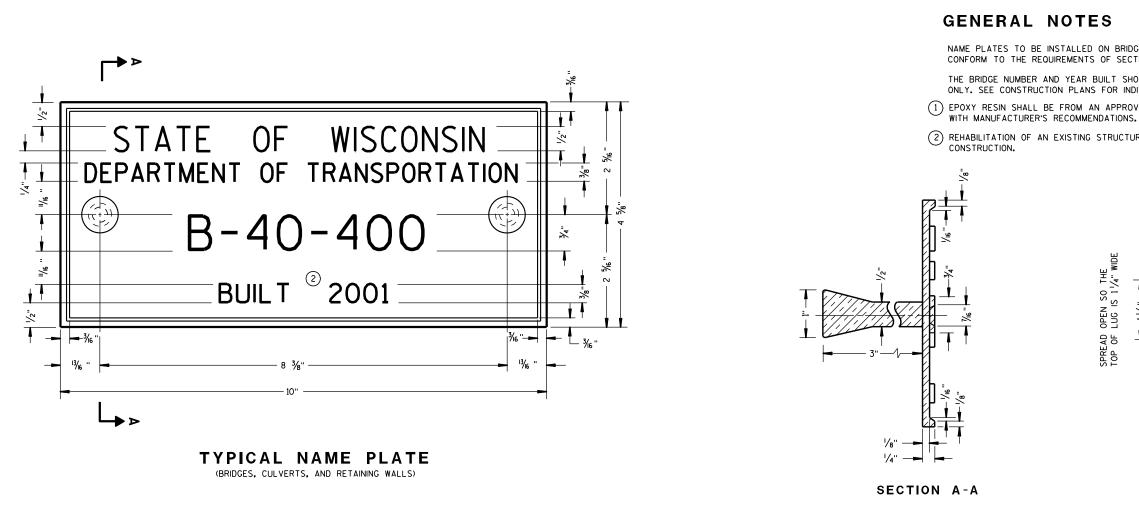


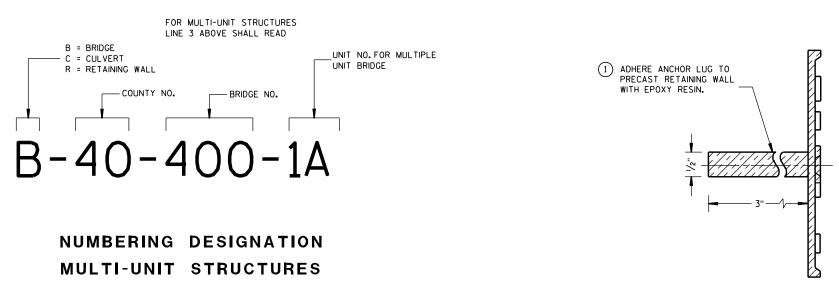
- WATER ELEVATIONS.





SDD 08E -02





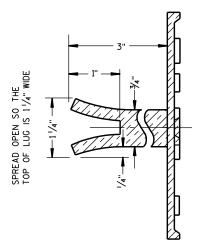
ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT. (1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE

(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE



ALTERNATE LUG

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

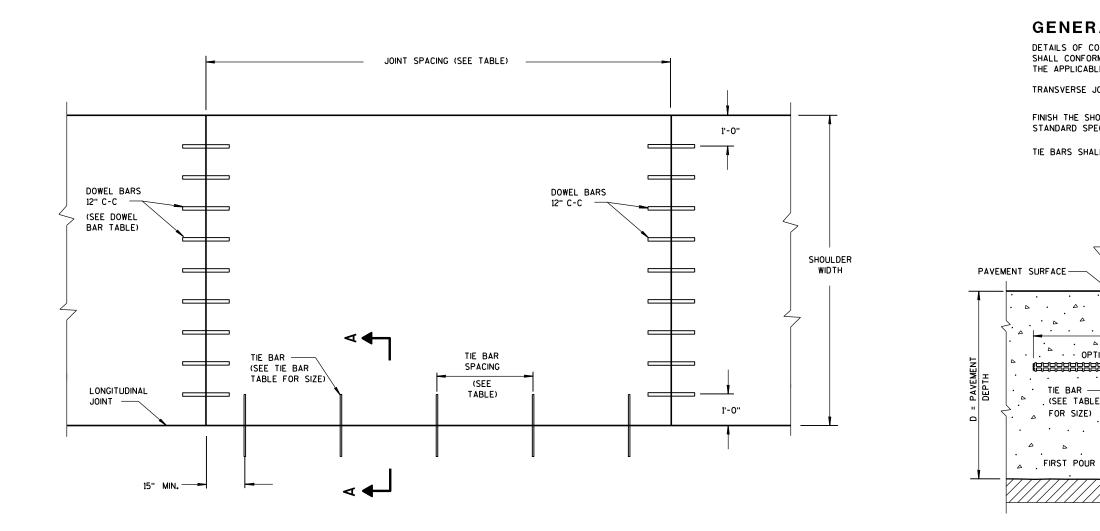
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3/26/10 DATE FHWA

/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER 3-10 ∢ 2 Δ

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TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR Size	TIE BAR Length (L)	MAX. TIE BAR Spacing					
< 10 ½"	NO. 4	30"	36"					
> 10 1/2"	NO. 5	36"	36"					
2 10 72	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 THE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER ^{***}	CONTRACTION JOINT SPACING
5 1/2", 6",6 1/2"	NONE	12'
7" , 7 1⁄2"	1''	14'
8", 8 ¹ /2"	1 1⁄4"	15'
9" , 9 ½"	1 1⁄4"	15'
10" & ABOVE	1 1/2"	15'

*** FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

GENERAL NOTES

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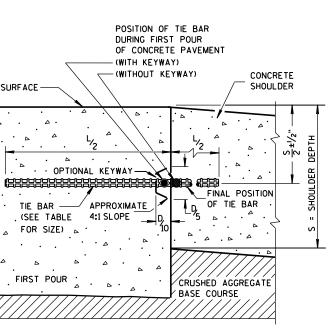
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DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

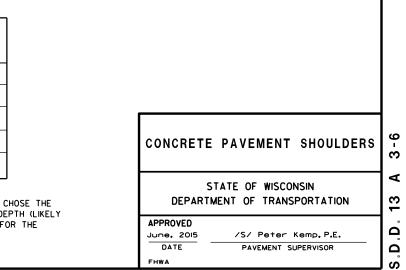
TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

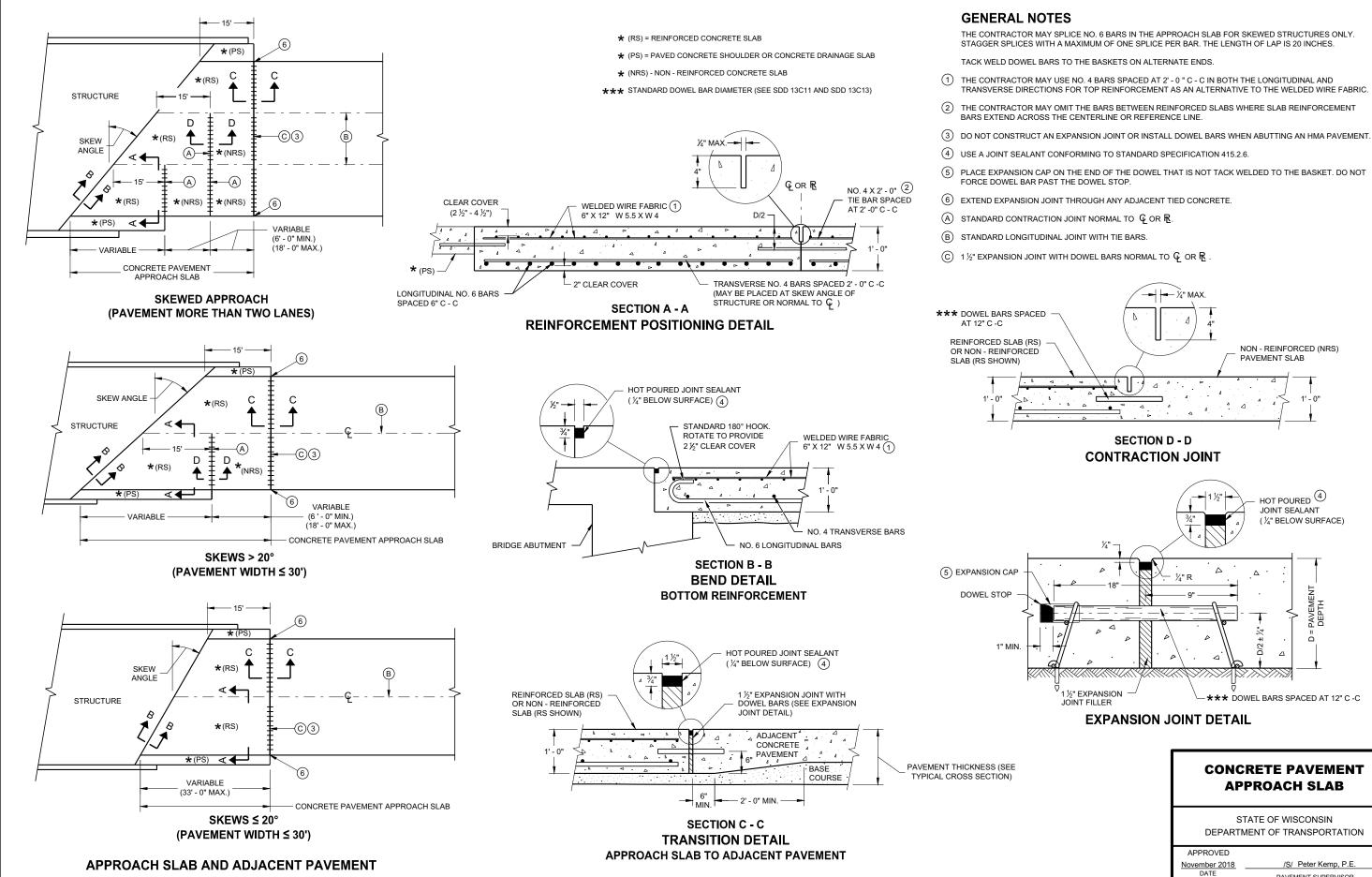
FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A LONGITUDINAL CONSTRUCTION JOINT





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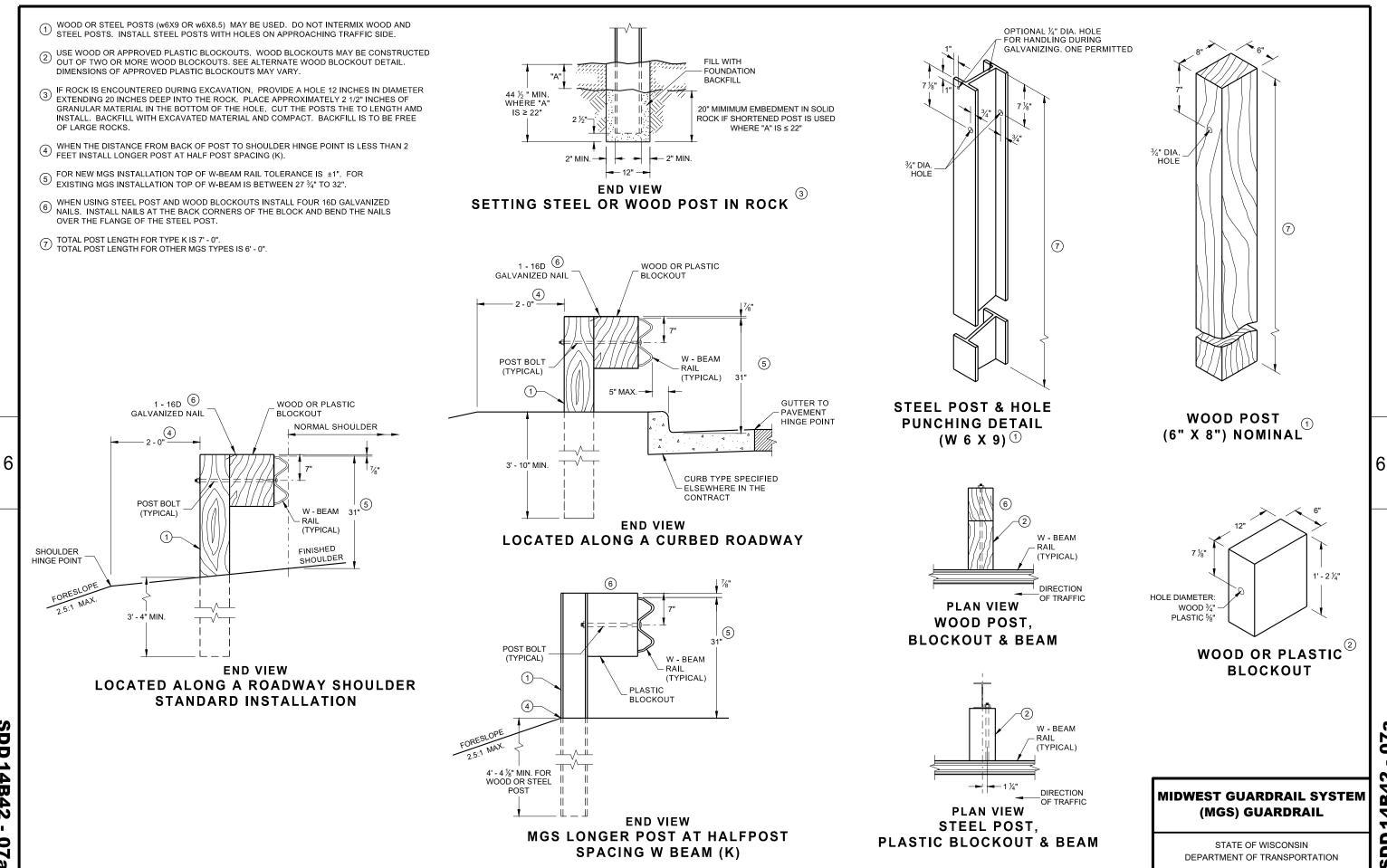
CONCRETE PAVEMENT 0 2 3 DEPARTMENT OF TRANSPORTATION ~ Δ

PAVEMENT SUPERVISOR

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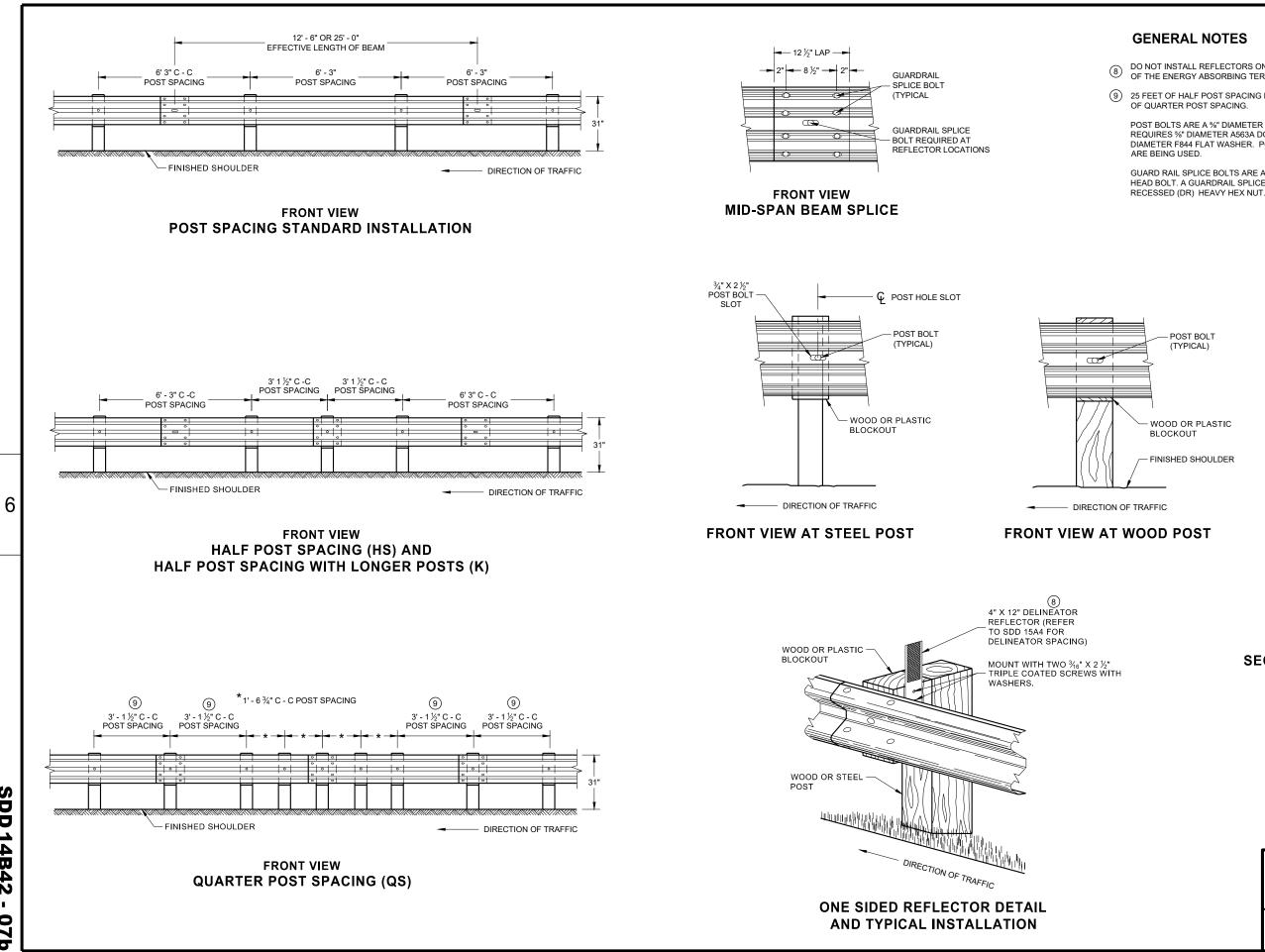
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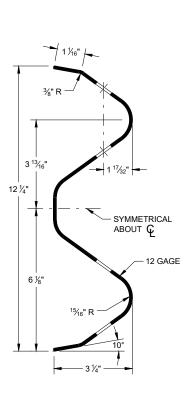
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DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5%" DIAMETER A563A DOUBLE



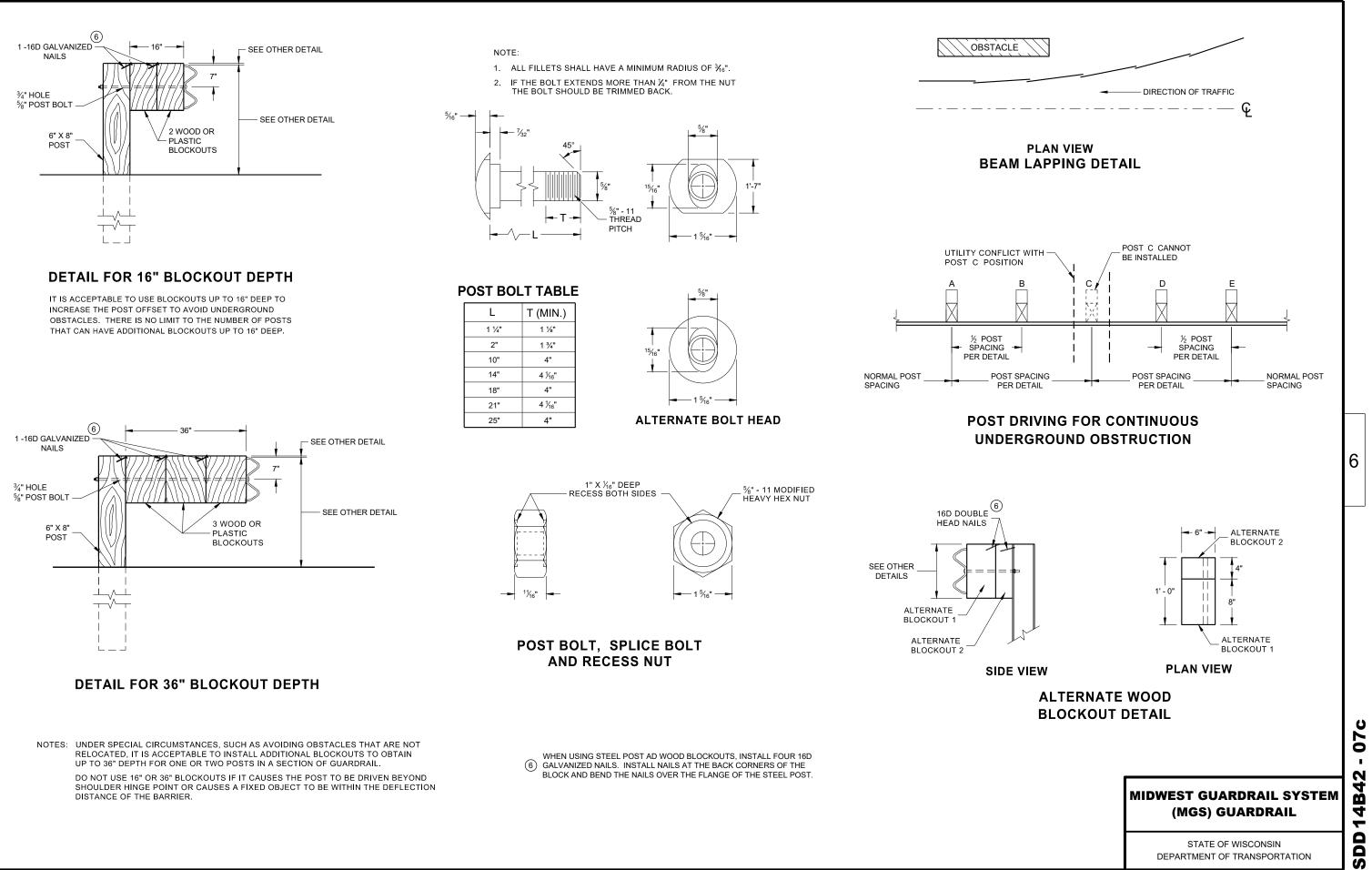
SECTION THRU W-BEAM RAIL

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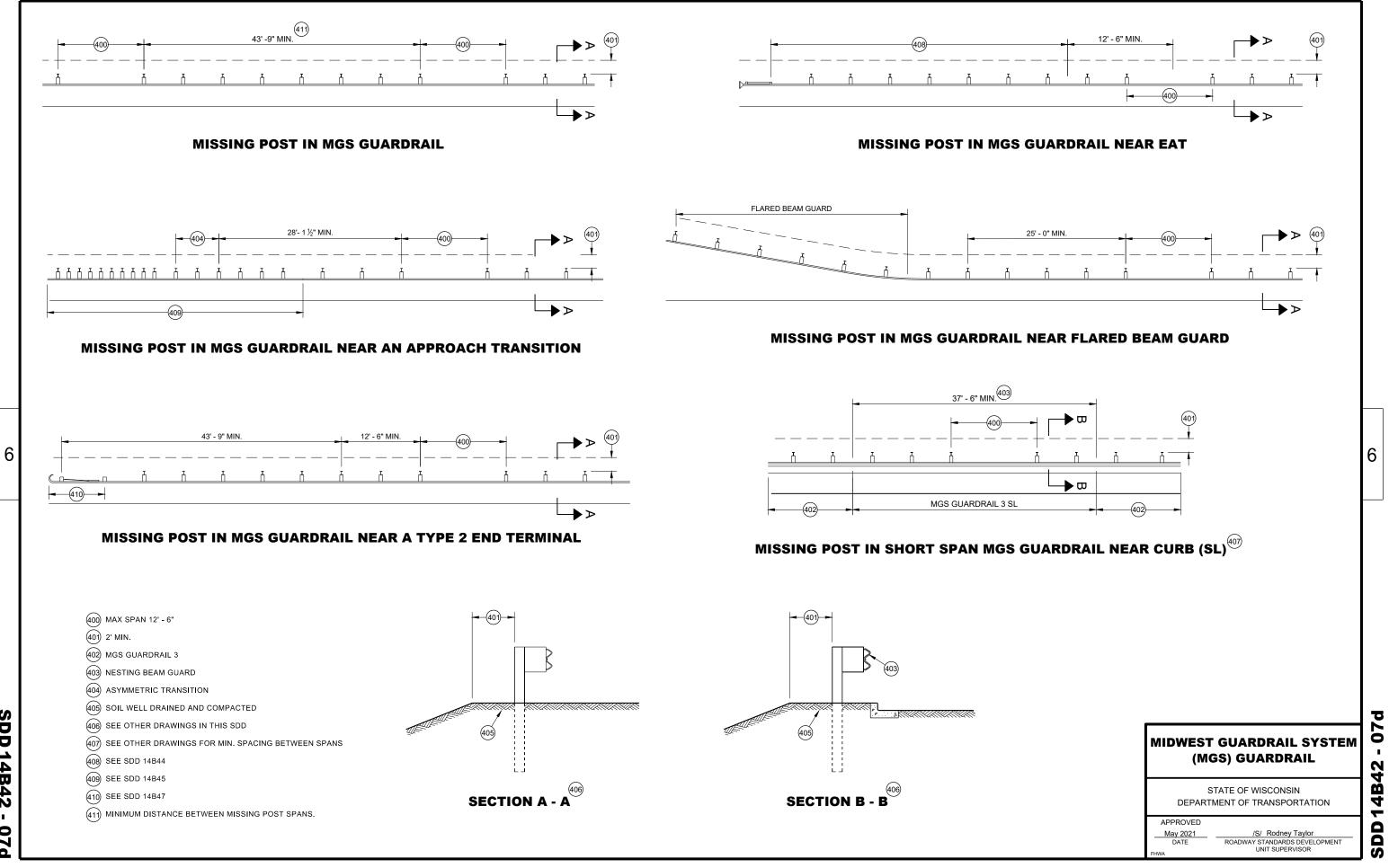
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MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



SDD 14B42 0 **n**



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
- © 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.

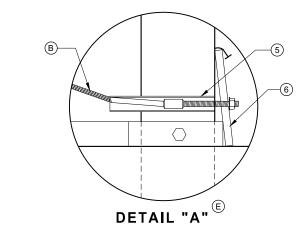
SEE SDD 14B42 FOR MORE INFORMATION.

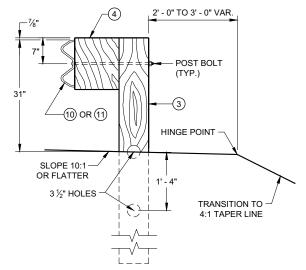
★ DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

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 $2 \hspace{-0.5mm}/ 2^{\! \prime \prime}$ 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.





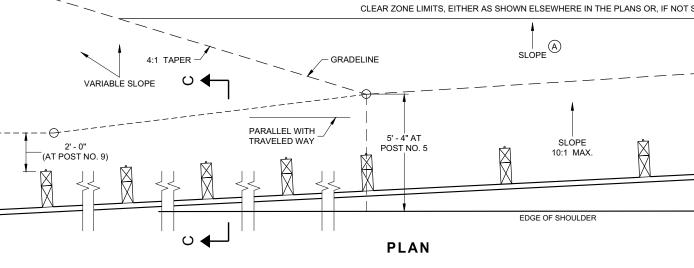
10 31 -(15) SHOULDER HINGE POINT SLOPE 10:1-OR FLATTER

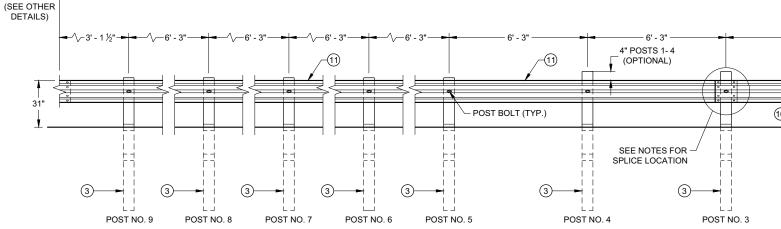
POST BOLT

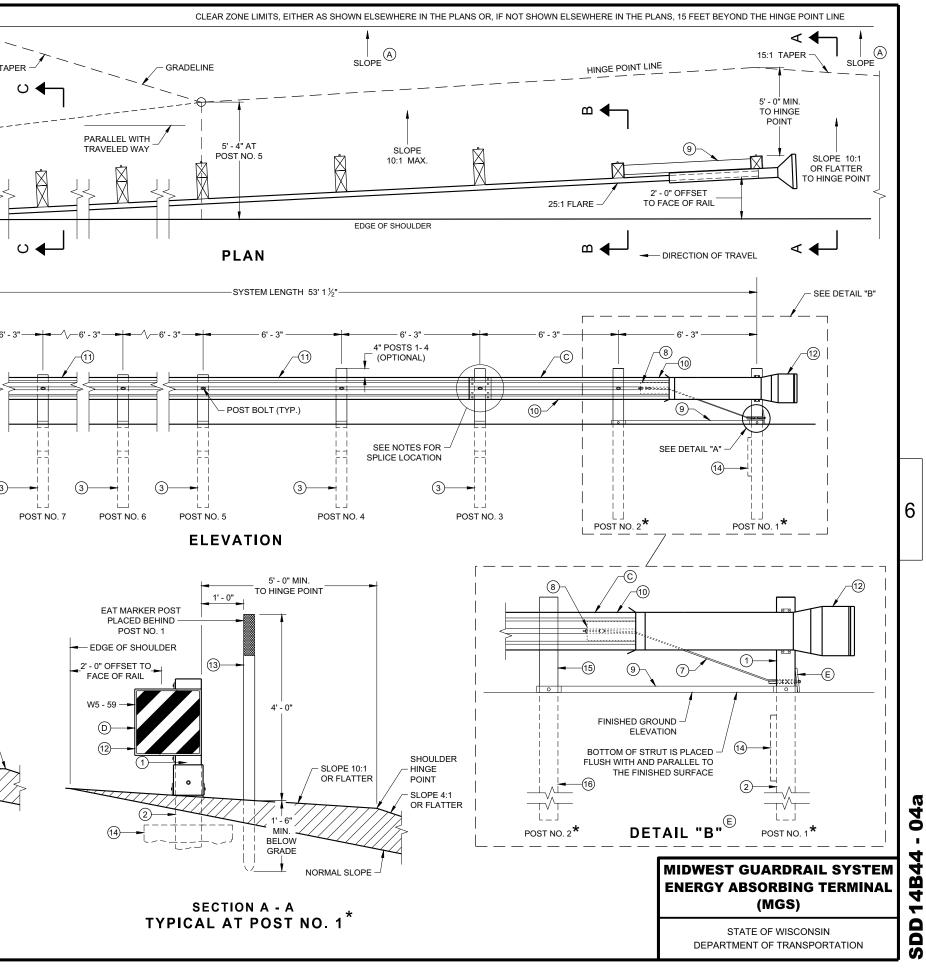
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MGS BEAM

GUARD (MGS)

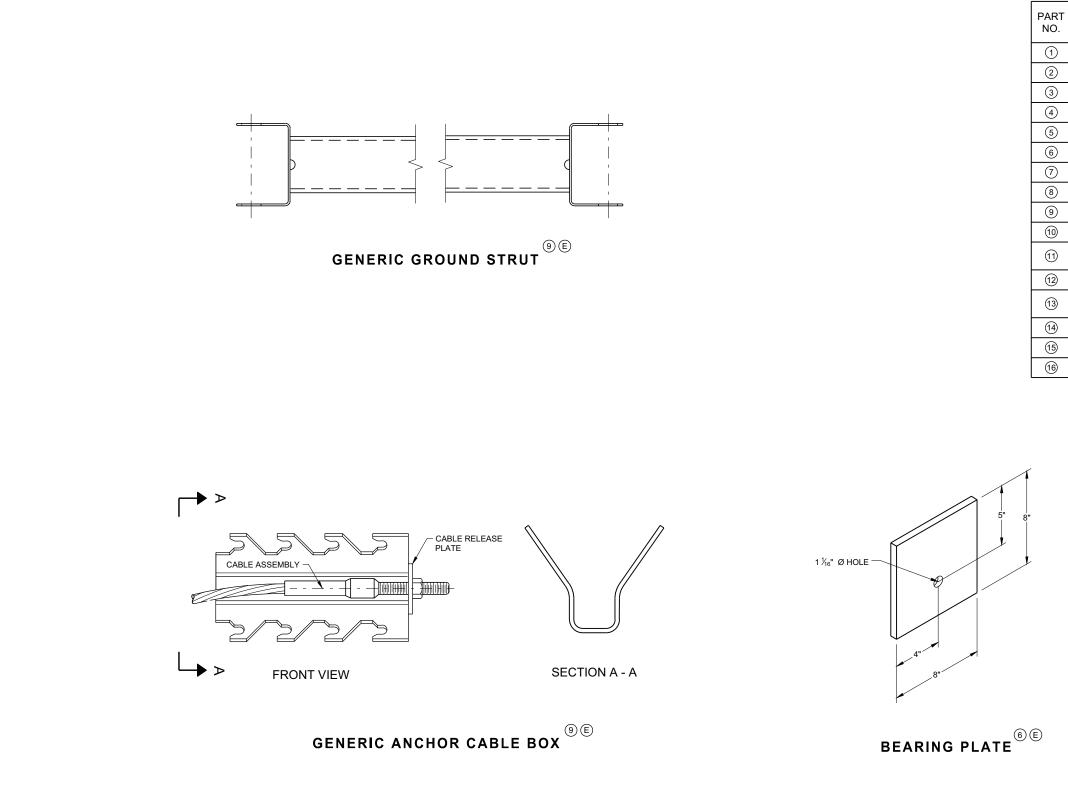






SECTION C - C **TYPICAL AT POST NOS. 3 - 9**

SECTION B - B TYPICAL AT POST NO. 2*



SDD 14B44 - 04b

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BILL OF MATERIALS

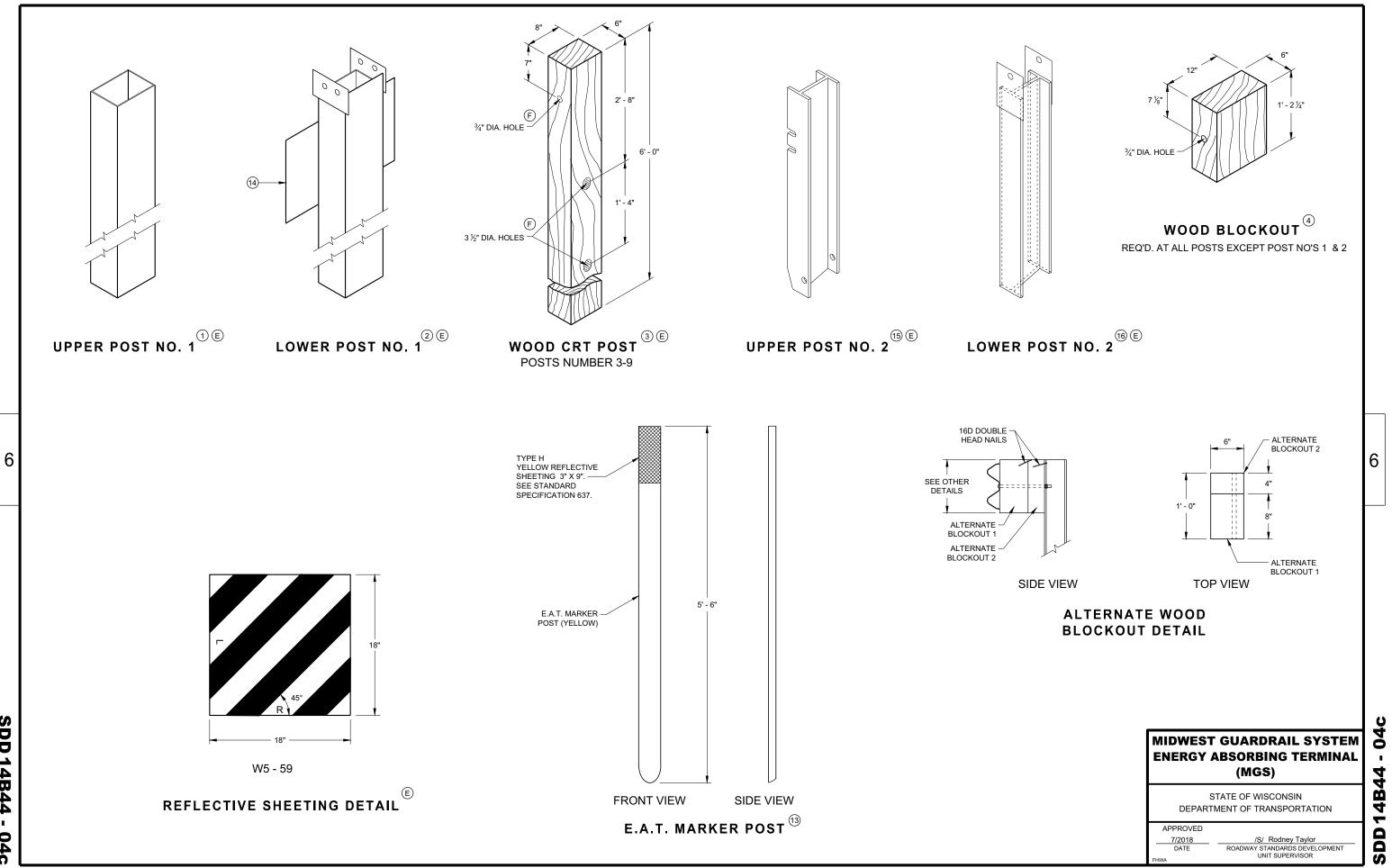
DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
UPPER POST NO. 1 6" X 6" TUBE
LOWER POST NO. 1
WOOD CRT
WOOD BLOCKOUT
PIPE SLEEVE
BEARING PLATE
BCT CABLE ASSEMBLY
ANCHOR CABLE BOX
GROUND STRUT
PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
IMPACT HEAD
EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
SOIL PLATE
UPPER POST NO. 2
LOWER POST NO. 2

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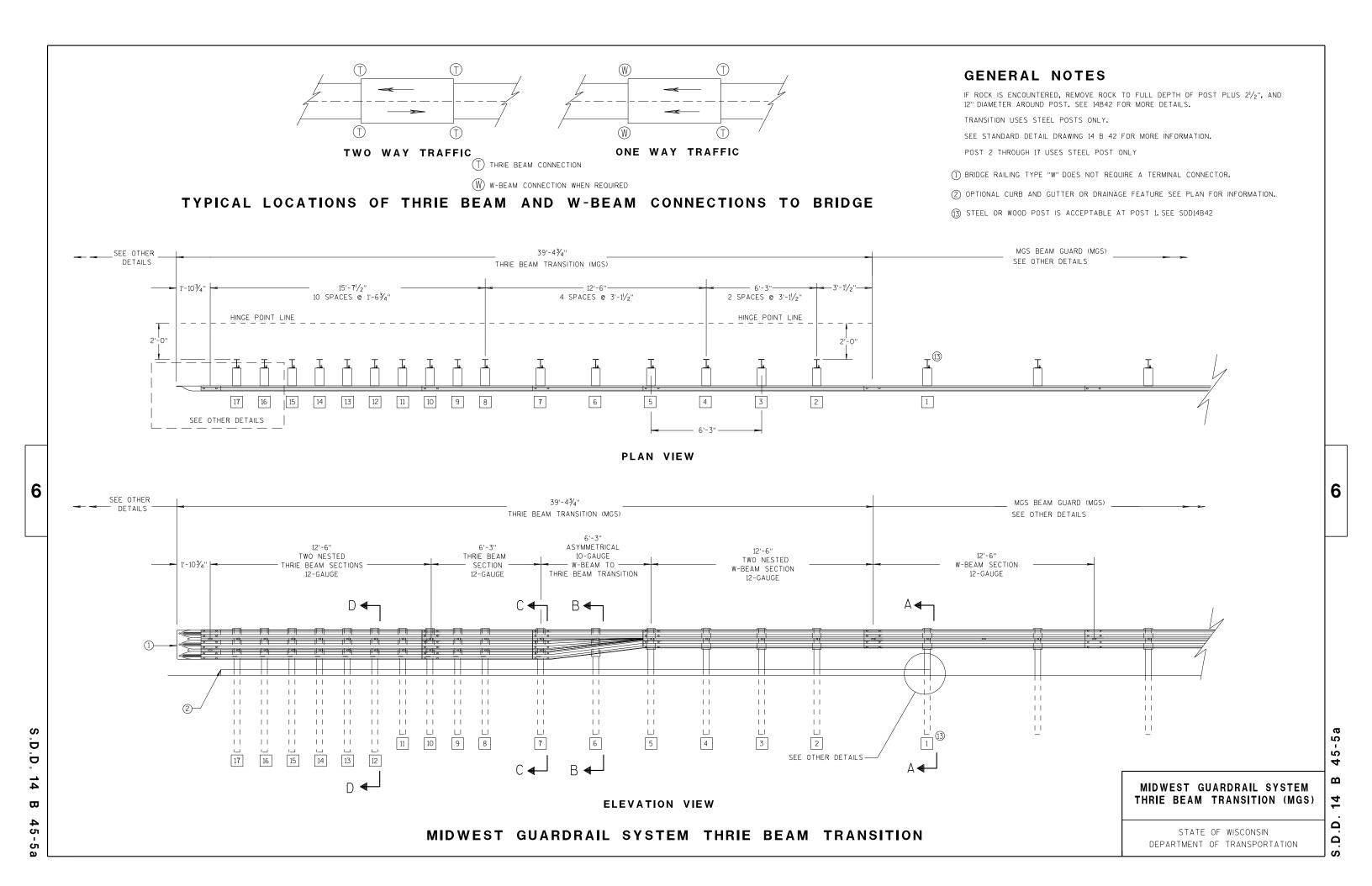
SDD14B44 - 04b

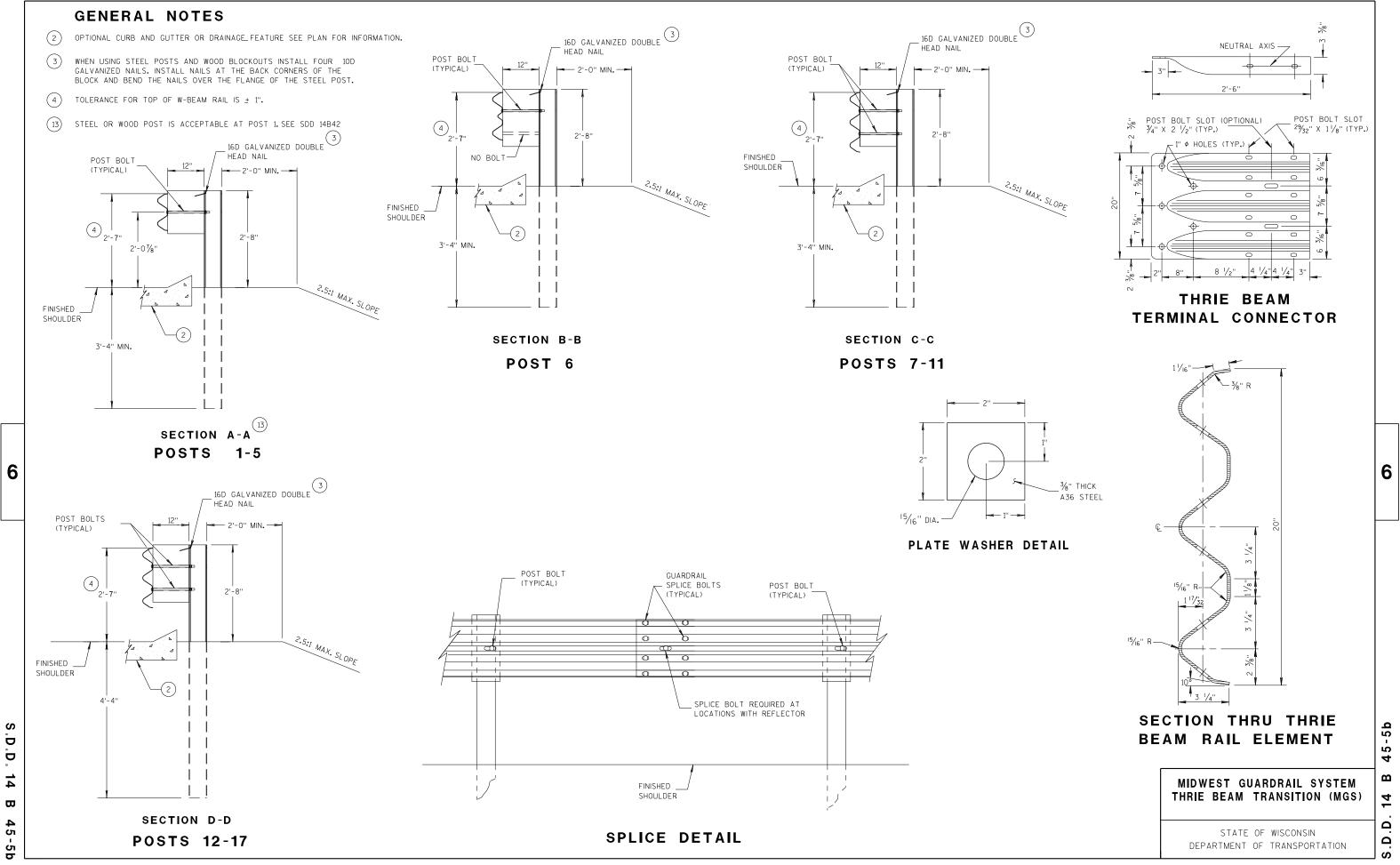
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



SDD 14B44 - 04c



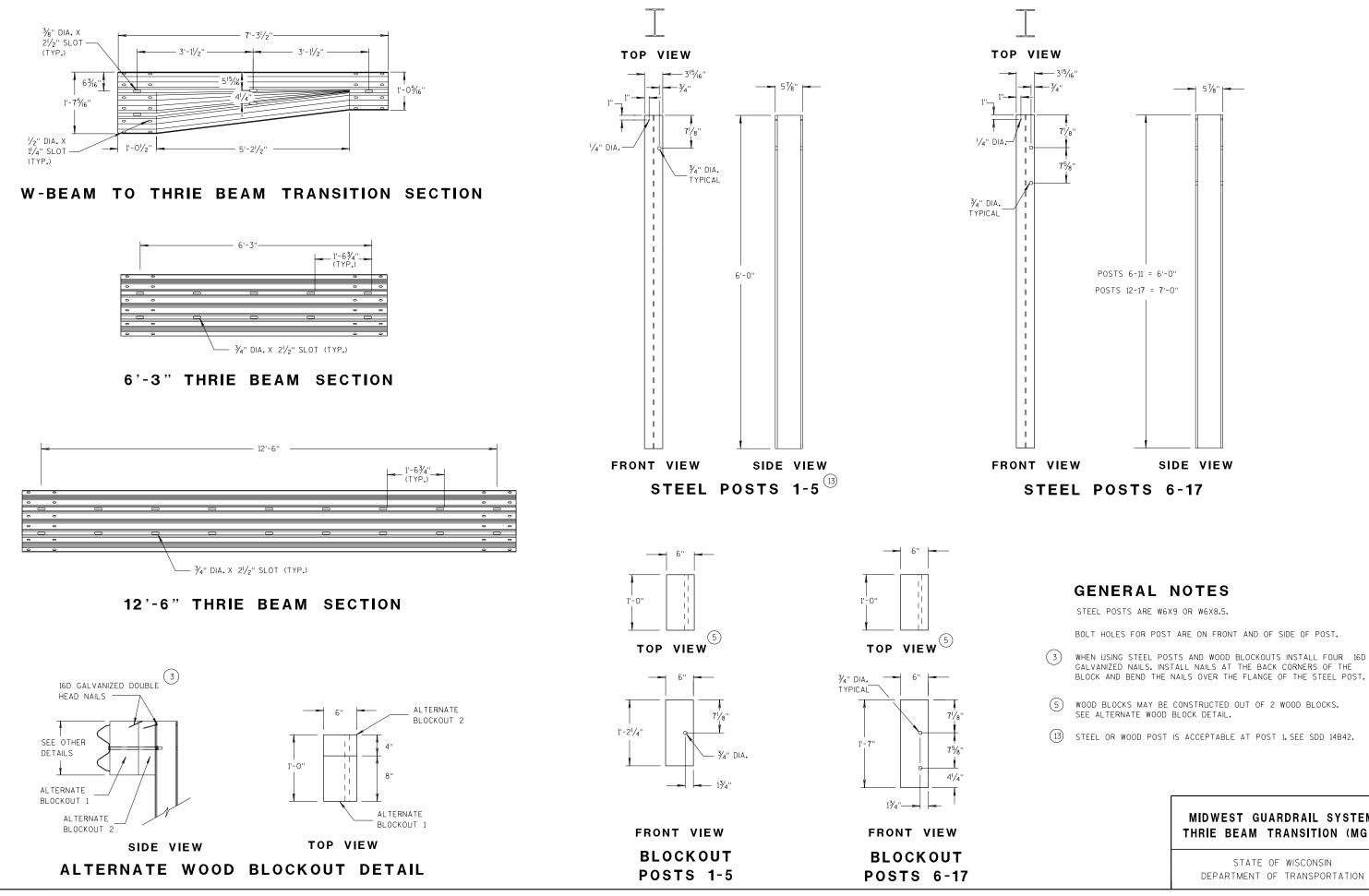


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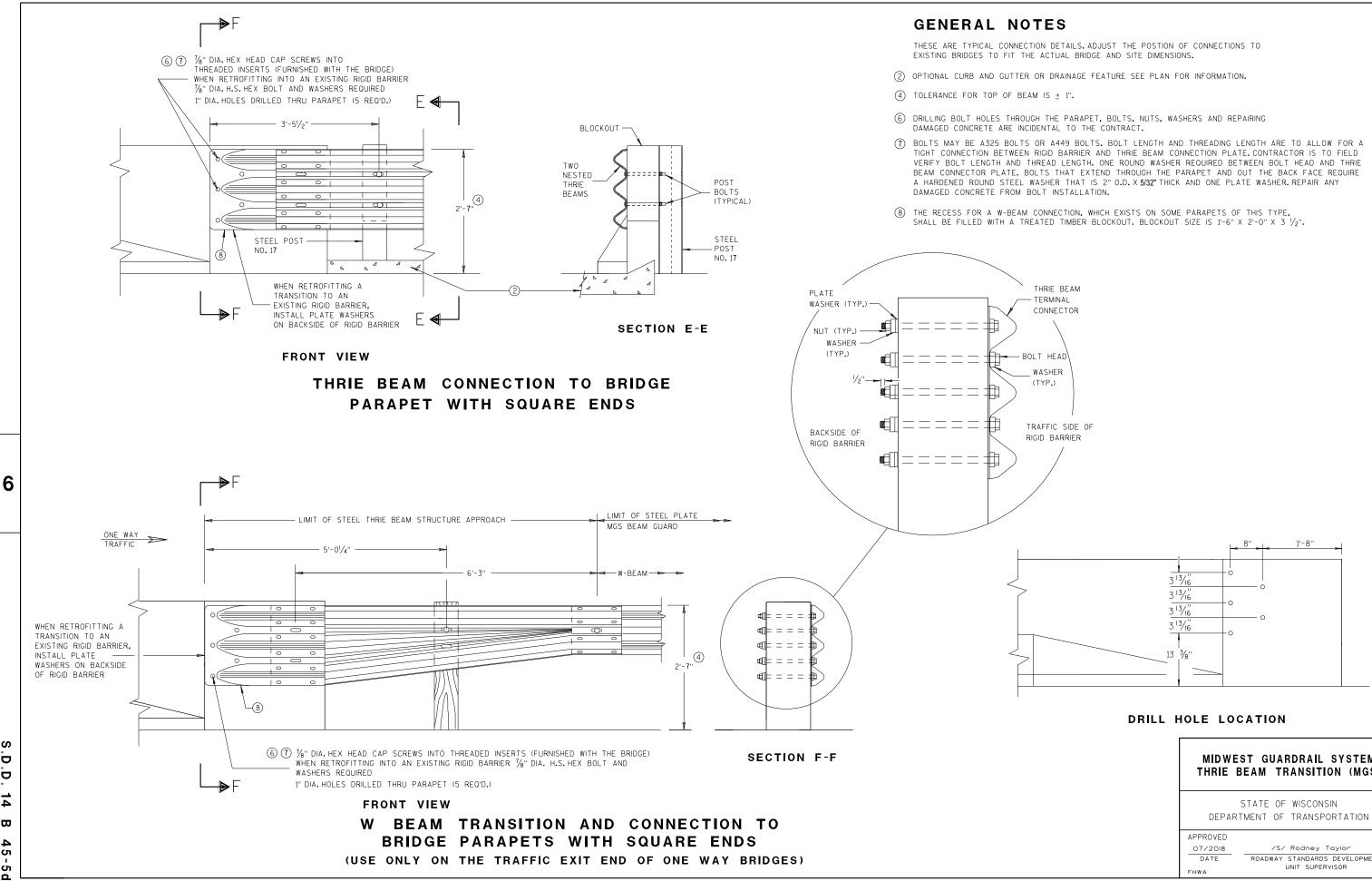
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MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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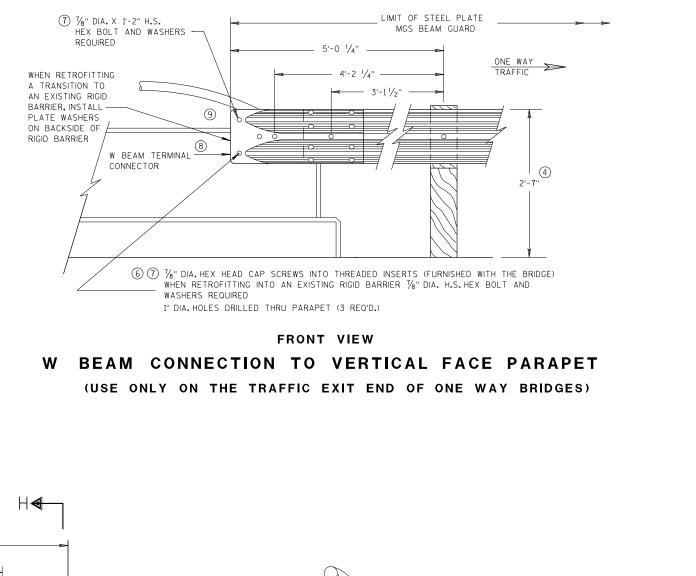
ES
DETAILS. ADJUST THE POSTION OF CONNECTIONS TO TUAL BRIDGE AND SITE DIMENSIONS.
DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
5 ± 1".
HE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING FAL TO THE CONTRACT.
A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A D BARRIER AND THRIE BEAM CONNECTION PLATE.CONTRACTOR IS TO FIELD AD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE HER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER.REPAIR ANY INSTALLATION.
NECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, D TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 V_2 ".
IE BEAM MINAL NECTOR HEAD HER ?.) FIC SIDE OF BARRIER

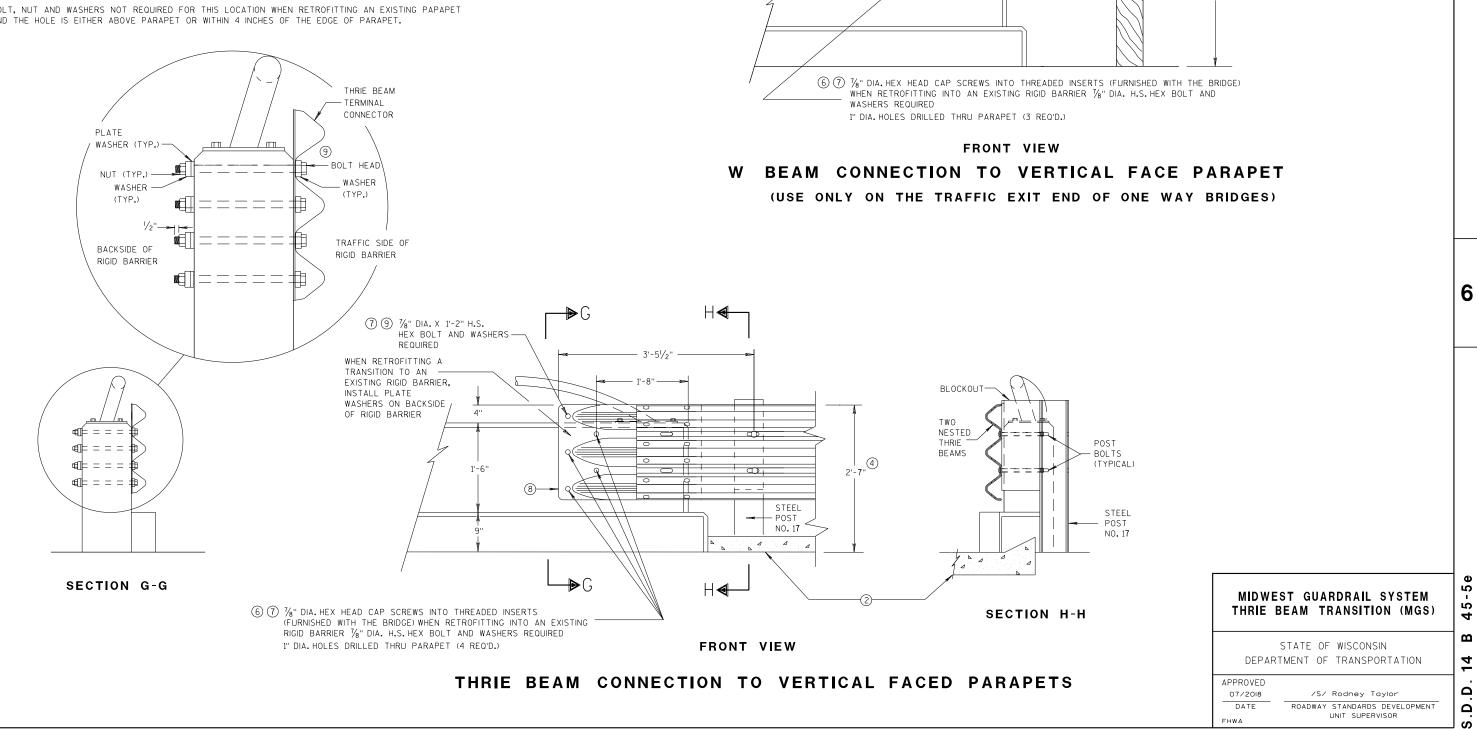
	ST GUARDRAIL SYSTEM EAM TRANSITION (MGS)	45-5d
	STATE OF WISCONSIN	_ 0
DEPART	MENT OF TRANSPORTATION	4
APPROVED		
07/2018	/S/ Rodney Taylor	
DATE	ROADWAY STANDARDS DEVELOPMENT	
FHWA	UNIT SUPERVISOR	م ا

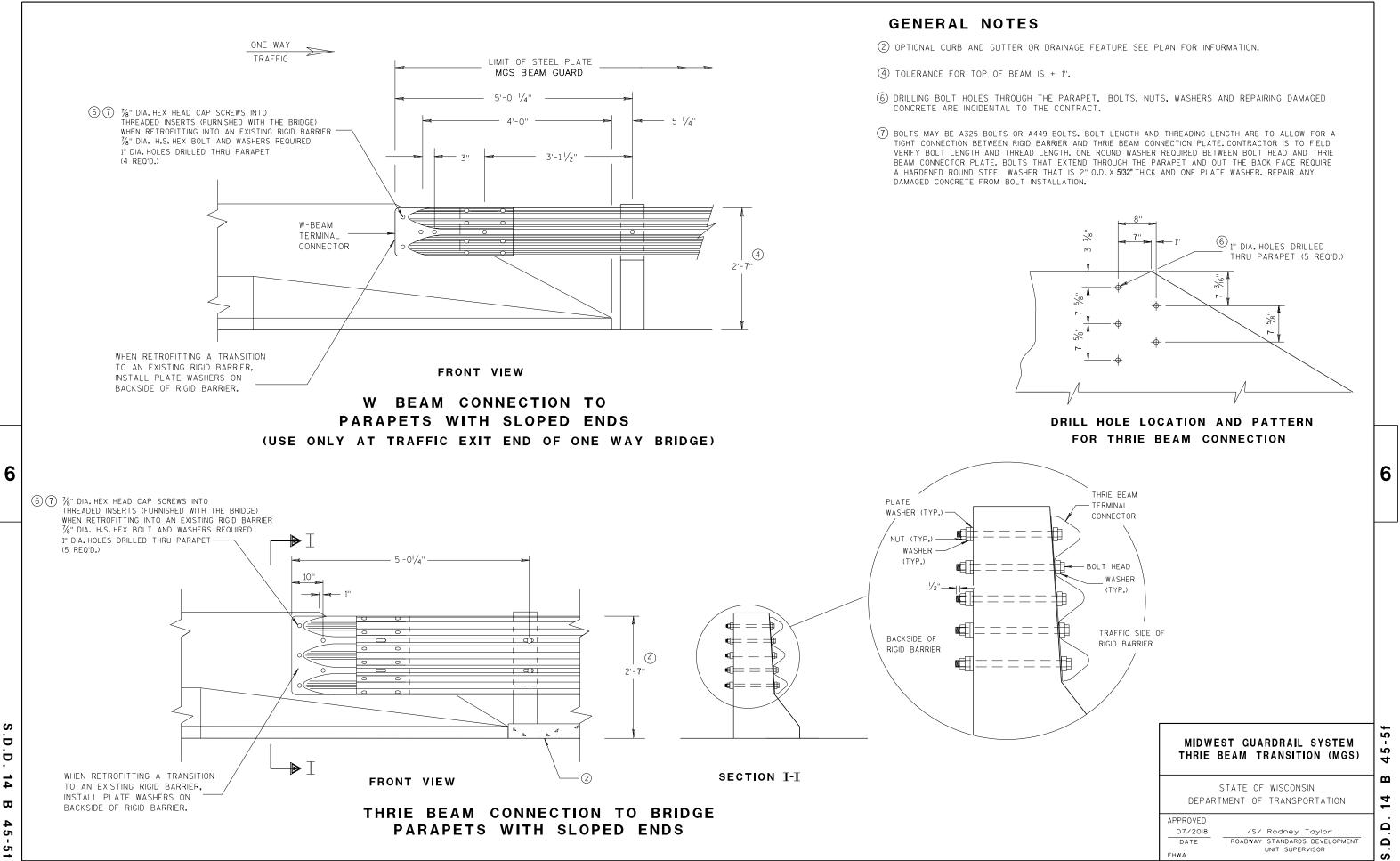
GENERAL NOTES

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 THREE 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".
- (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.







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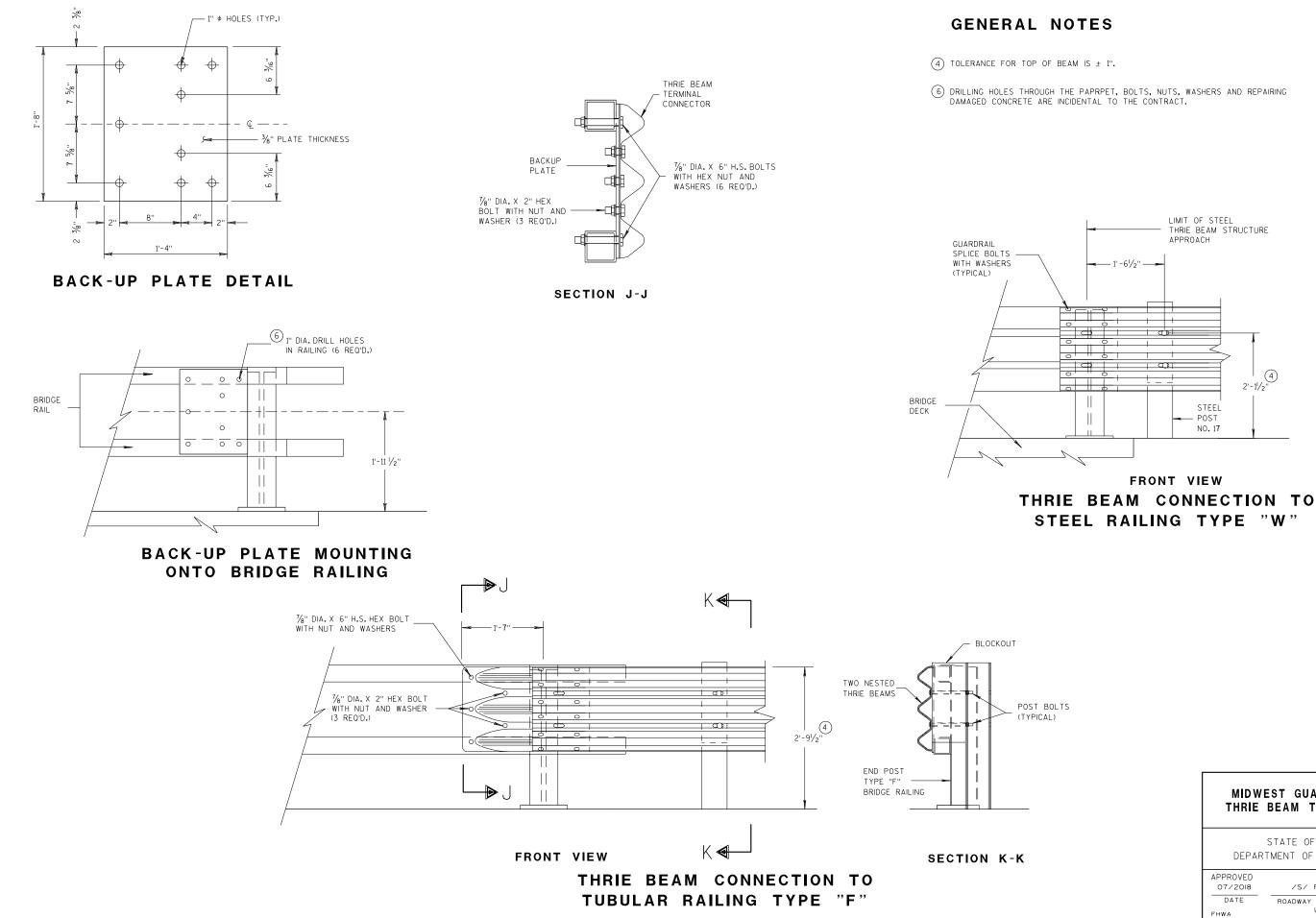
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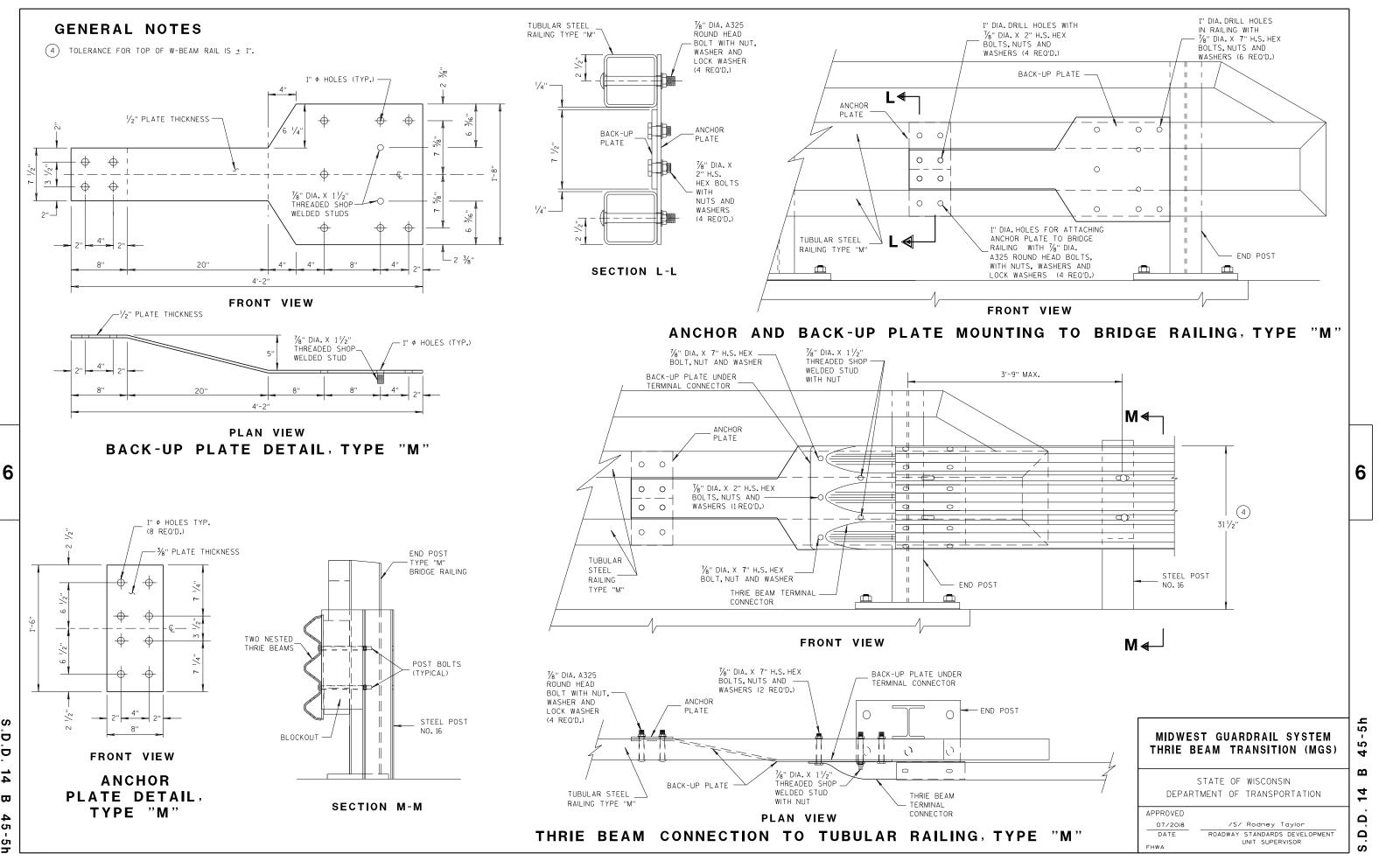
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	EST GUARDRAIL SYSTEM Beam transition (MGS)
DEPAR	STATE OF WISCONSIN TMENT OF TRANSPORTATION
APPROVED 07/2018	/S/ Rodney Taylor
DATE	ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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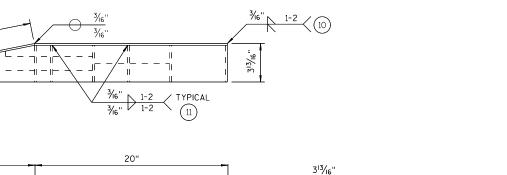
(VIEWED FROM BACK SIDE OF PLATE)

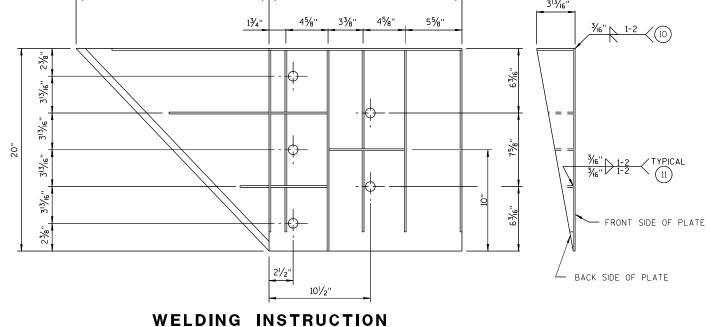
203/8"

20"

SINGLE SLOPE CONNECTION PLATE

	CONNECTOR PLATE DIMENSION (PER ASSEMBLY)						
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS			
P1	1	в	20" × 20"	3/16"			
P2	1	в	20" × 20" × 28%6"	3⁄16''			
P3	1	B C D	39" × 35⁄8" × 20" × 195⁄16"	3/16"			
S1	4	B	18 ⁷ / ₁₆ " × 3 ⁵ / ₈ " × 18 ³ / ₄ "	1/4"			
S2	1	BCD	$10^{1}/_{4}$ " × 2 $^{7}/_{16}$ " × $10^{3}/_{8}$ " × $^{1}/_{2}$ "	1⁄4"			
S3	1		3" × 11/16" × 31/8" × 1/2"	1/4"			
S4	1	в	6 ^l /8" × 2 ⁷ /6"	1/4"			
S5	1	в	6 ¹ /8" × 1 ¹ /16"	1/4"			
S6	1	в 📥	7¾" × 1¾"	1/4"			
S7	1	٩Å	2%6"×6"×35%"×57%"	1/4"			
S8	1	A DC	$1^{5}/_{32}$ " × $7^{1}/_{2}$ " × $2^{1}/_{2}$ " × $7^{3}/_{8}$ "	1/4"			
S9	1	C B	6 ¹ / ₁₆ " × 6 ³ / ₁₆ " × 1 ³ / ₃₂ "	1/4"			
S10	1	٩Å	1 ⁷ / ₈ " × 9 ⁷ / ₈ " × 3 ⁵ / ₈ " × 9 ¹¹ / ₁₆ "	1/4"			
S11	1		8 ¹ / ₂ " × 8 ³ / ₄ " × 1 ¹³ / ₁₆ "	1/4"			





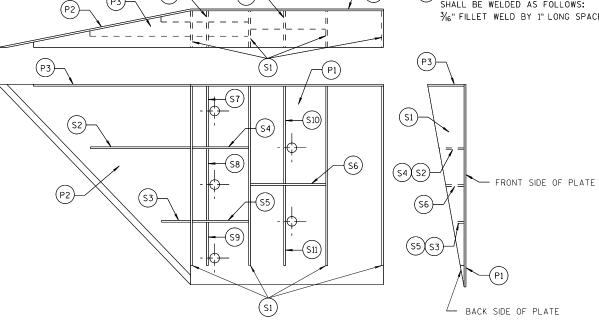


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

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GENERAL NOTES COVER PLATE PANELS ARE $\frac{3}{16}$ " 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 $\frac{3}{16}$ " FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

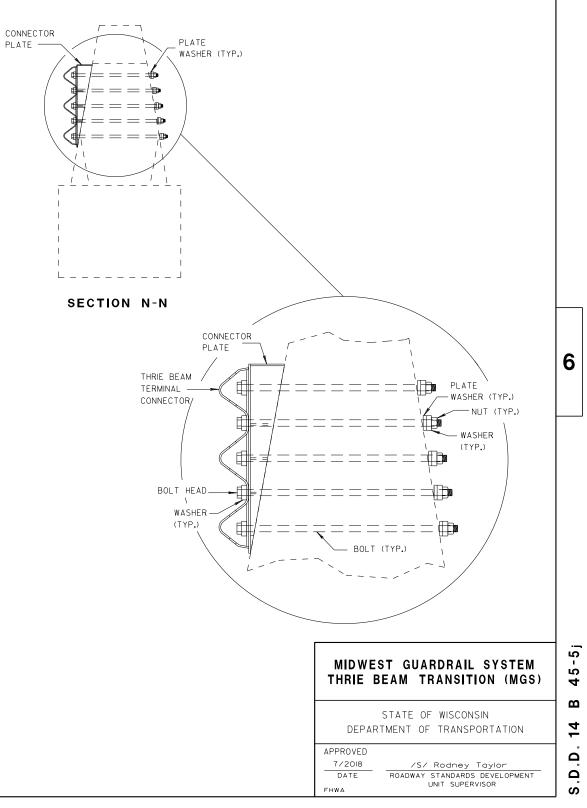
(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS: $3\!\!/_6$ "Fillet weld by 1" long spaced at 2".

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED /S/ Rodney Taylor 7/2018 DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR FHWA S

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- (2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
 - DAMAGED CONCRETE FROM BOLT INSTALLATION.

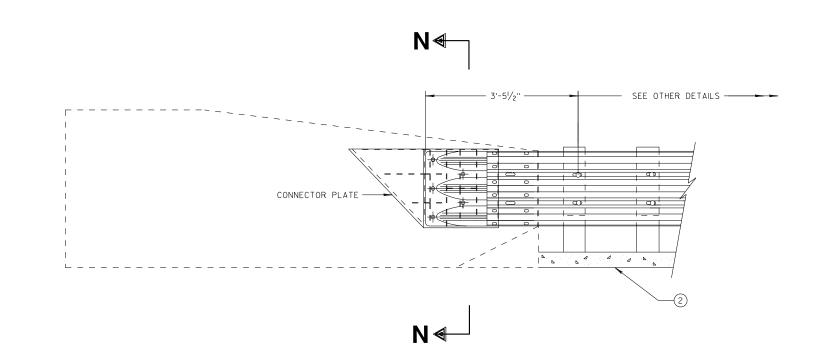




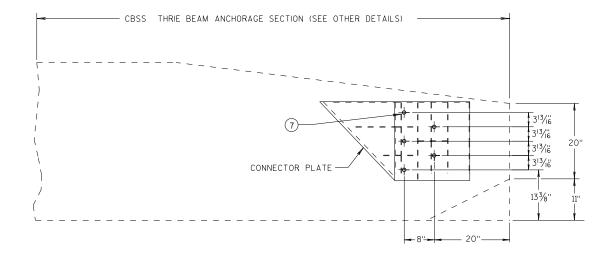
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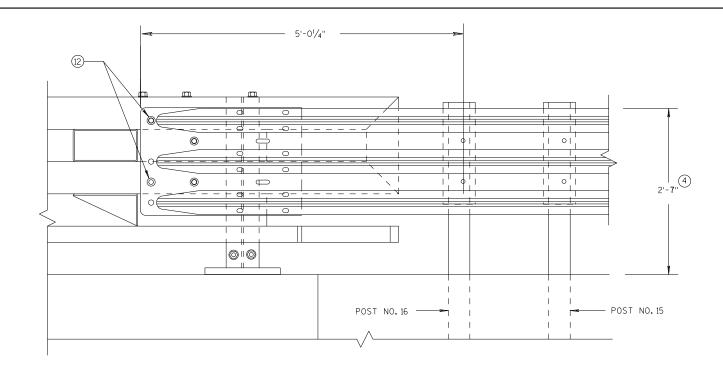






CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(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 THREE 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



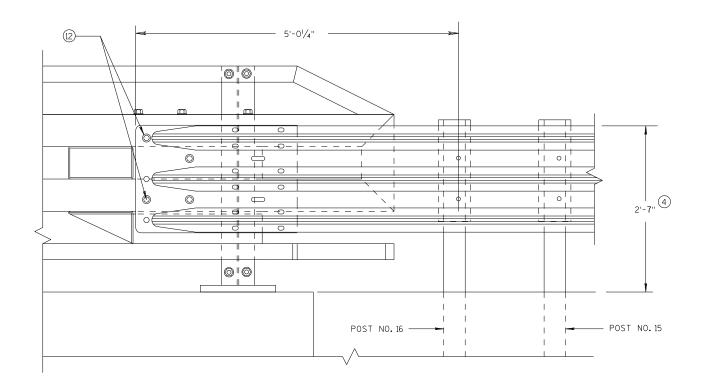
GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS \pm 1".

(2) 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.

ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

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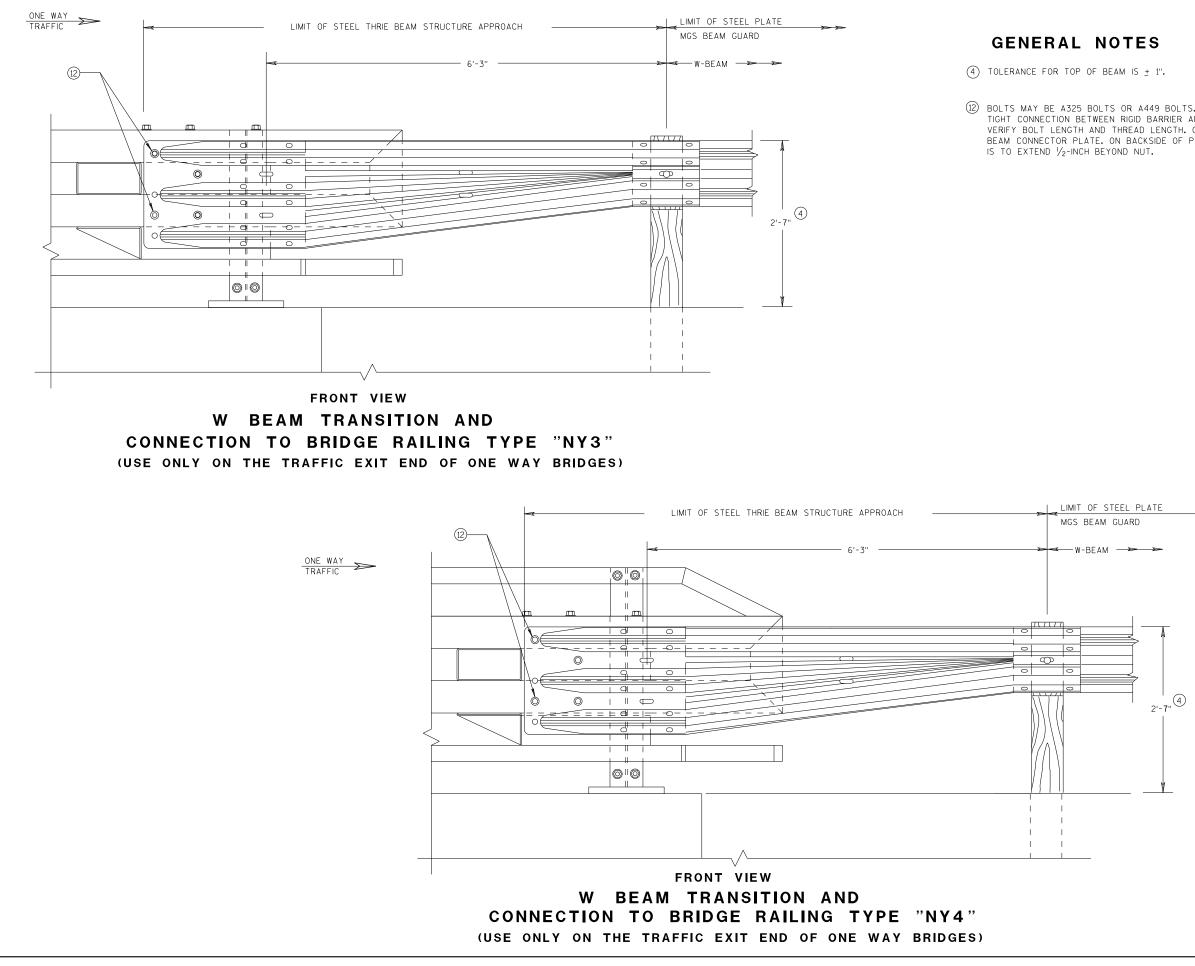
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 7/2018 DATE

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

DATE FHWA R



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(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 THREE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

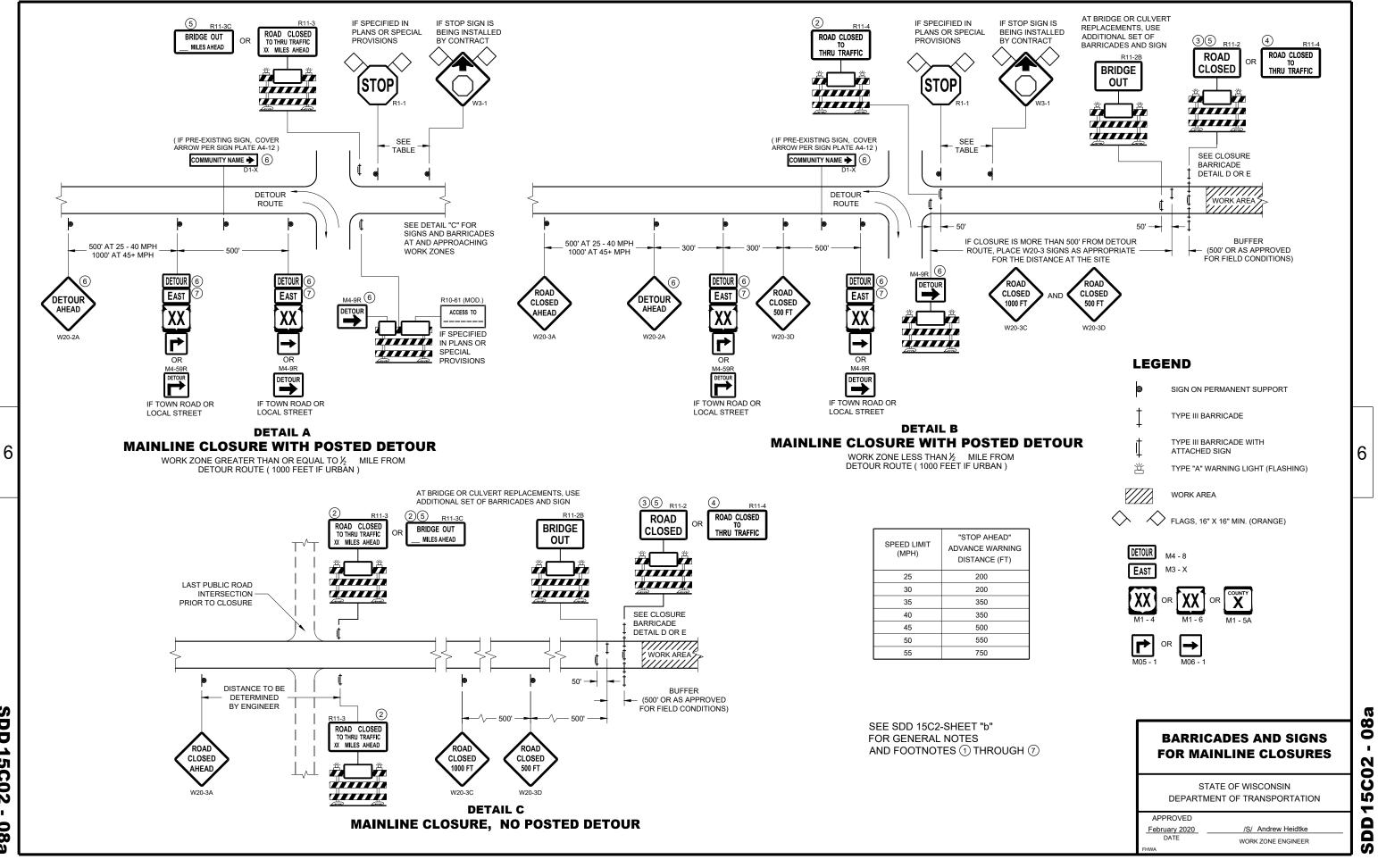
APPROVED 7/2018 DATE

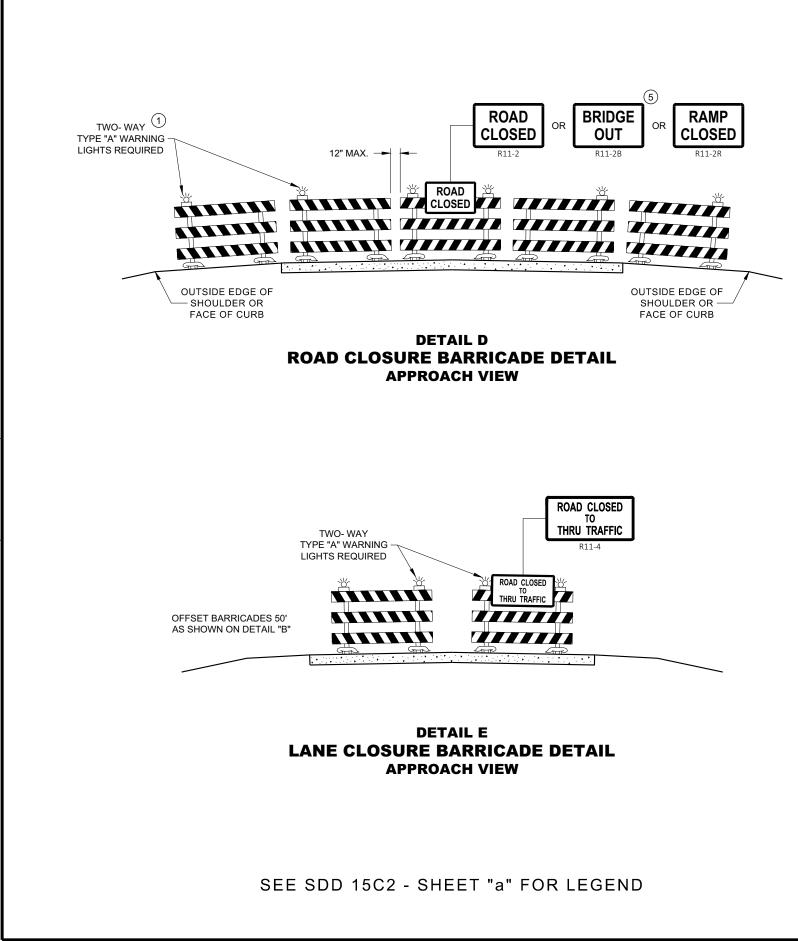
FHWA

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

FULL ROAD CLOSURES.

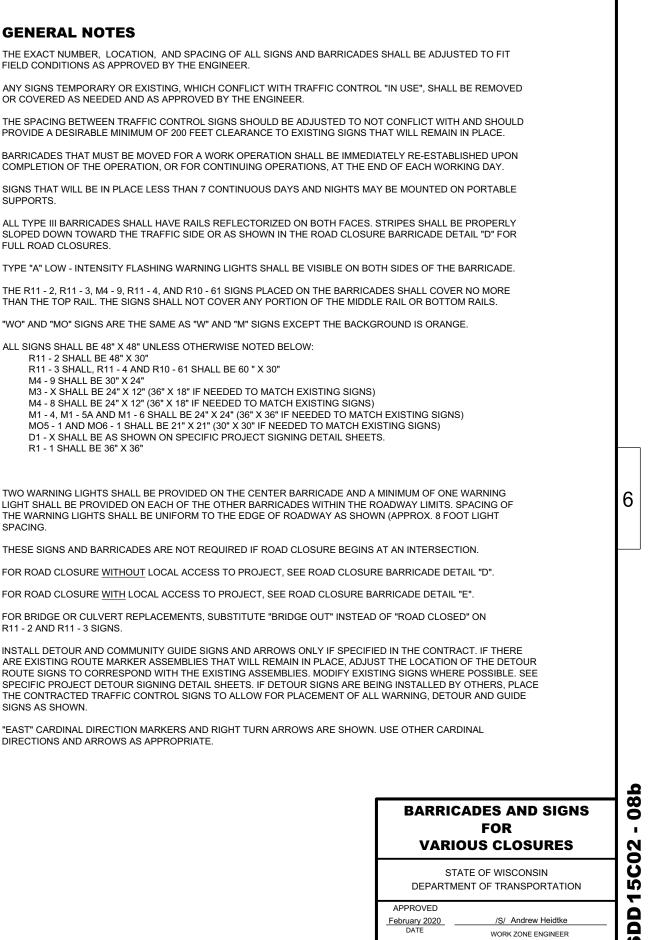
THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

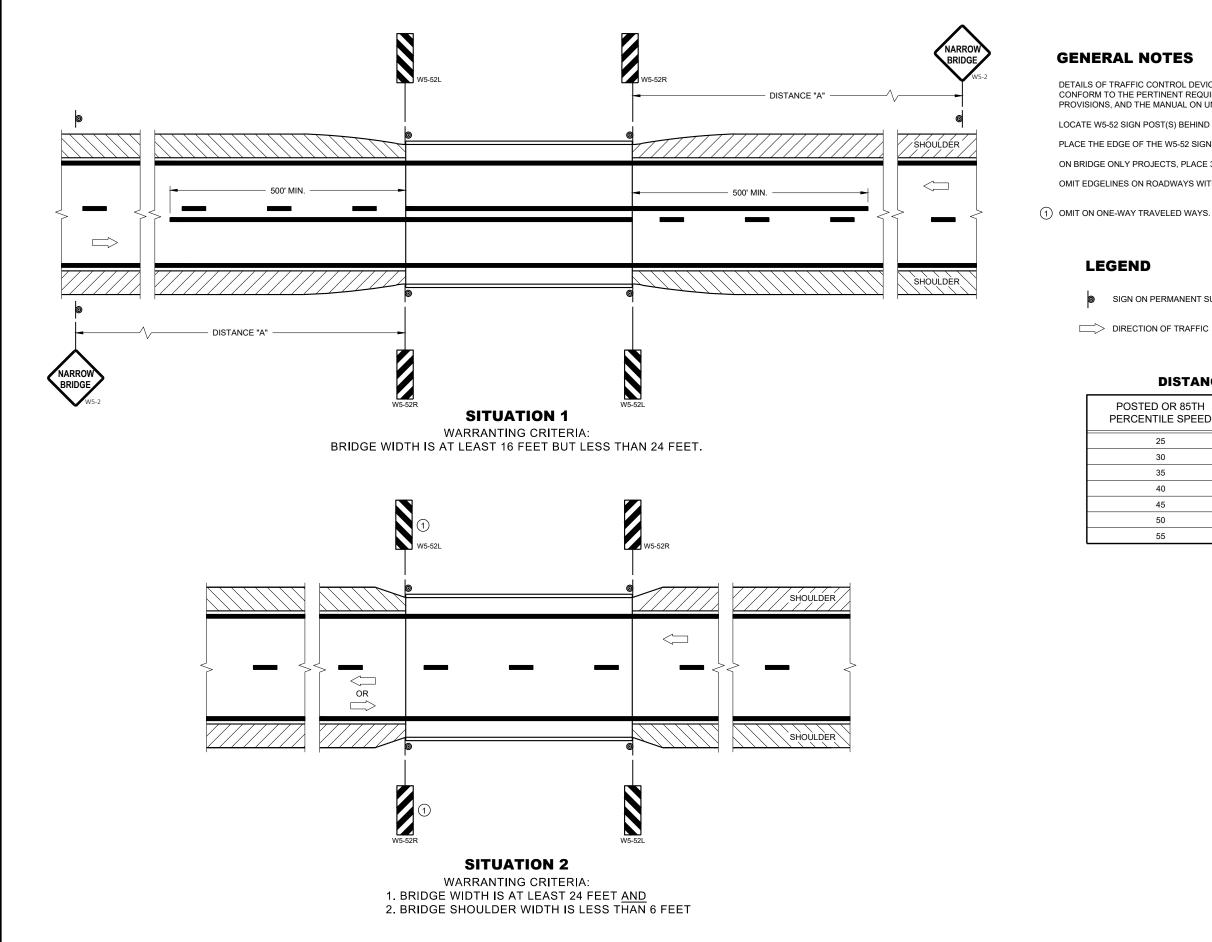
- ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11 - 2 SHALL BE 48" X 30"
 - R11 3 SHALL, R11 4 AND R10 61 SHALL BE 60 " X 30" M4 - 9 SHALL BE 30" X 24"
 - M3 X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
 - M4 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

 - D1 X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
 - R1 1 SHALL BE 36" X 36"
- (1)TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING
- (2) 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 SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

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DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

OSTED OR 85TH RCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

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SIGNING AND MARKING FOR TWO LANE BRIDGES

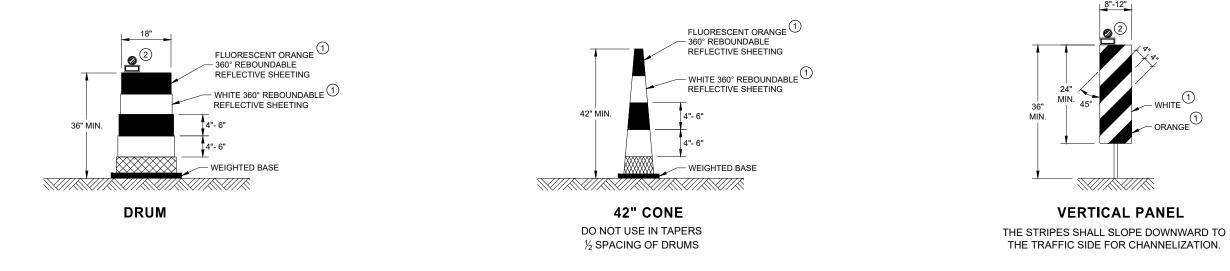
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

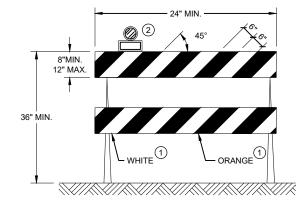
APPROVED May 2022 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER

GENERAL NOTES

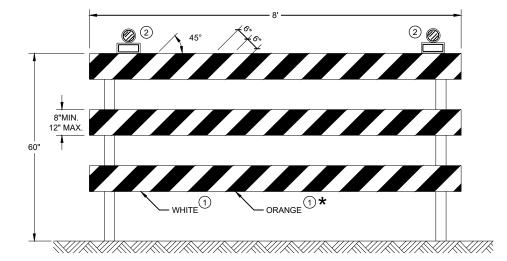
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





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.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

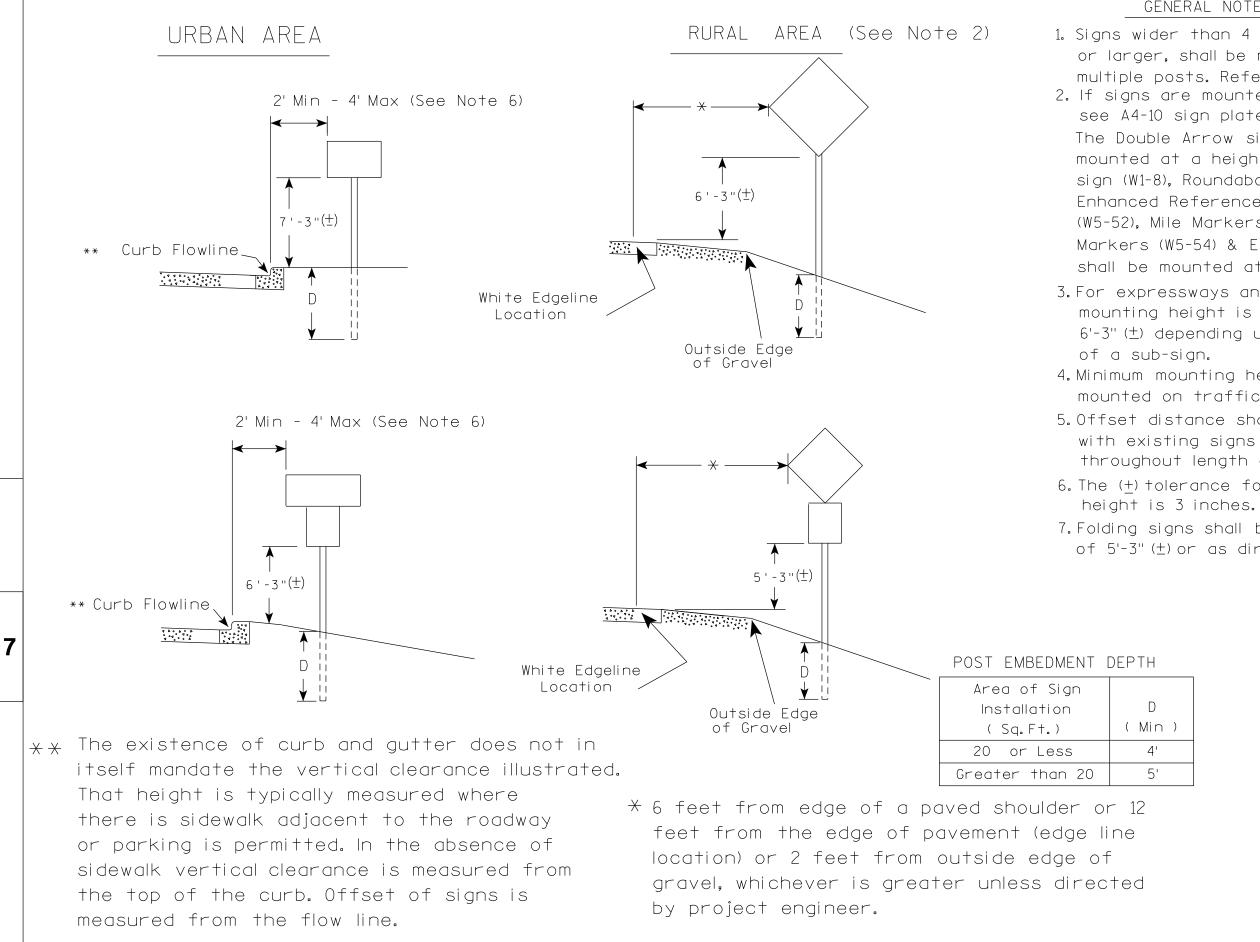
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CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2021 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

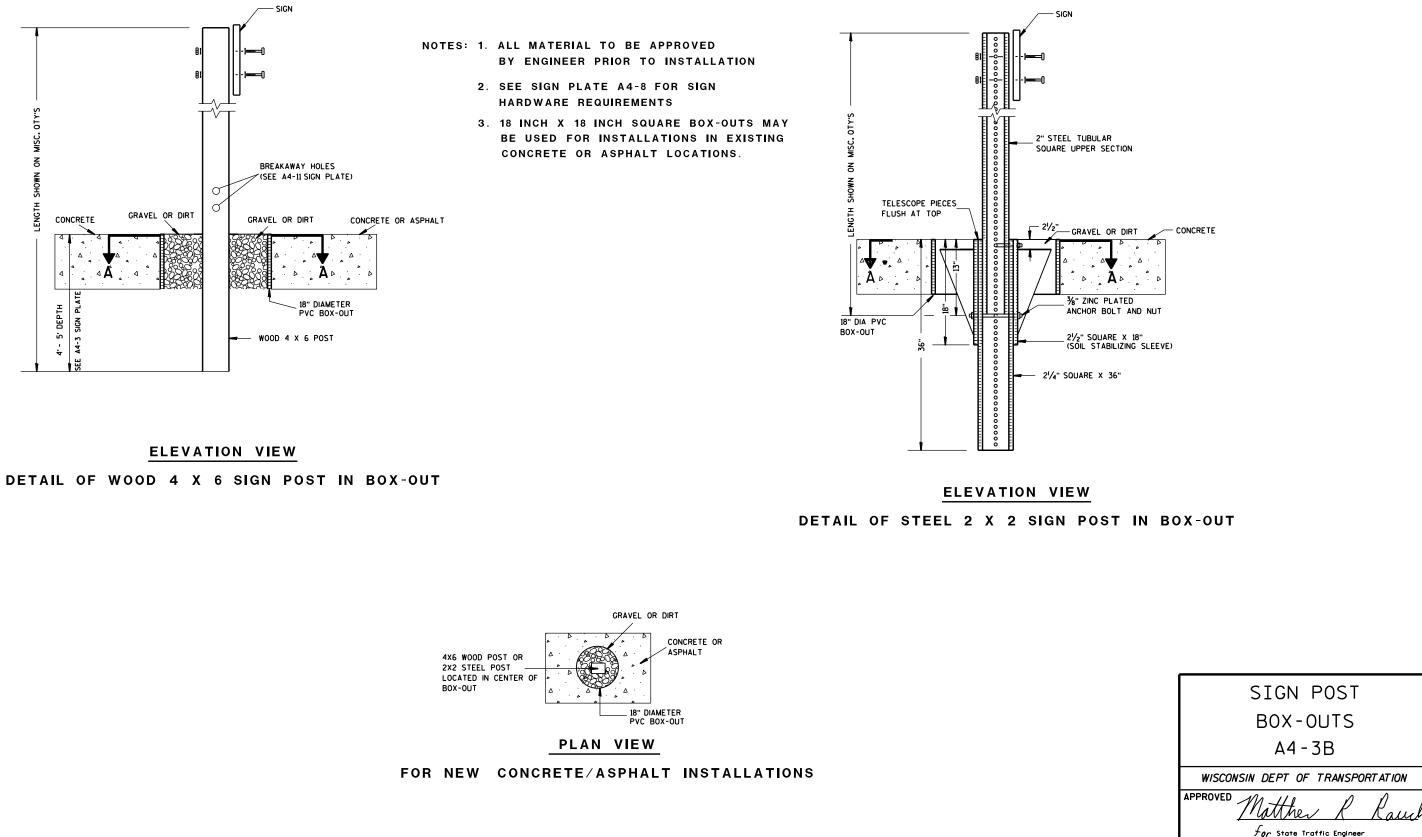


PROJECT NO:	HWY:	COUNTY:			
			DI AT DITE : 47 HUN 0000 4 0	DI OT DY IN IO	DLOT NAME -

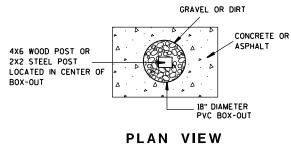
GENERAL NOTES

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 sian plate. The Double Arrow sign (W12-1D) shall be mounted at a height of $2'-3''(\pm)$. 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" (\pm) or $6'-3''(\pm)$ depending upon existence 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 7. Folding signs shall be mounted at a height of 5'-3" (\pm) or as directd by the Engineer.

)	
	TYPICAL INSTALLATION
	OF PERMANENT TYPE II
	SIGNS ON SINGLE POSTS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthew & Rauch For state Traffic Engineer
	DATE <u>5/13/202</u> 0 PLATE NO. <u>A4-3.22</u>
	SHEET NO: E
PLOT SCALE : \$\$	WISDOT/CADDS SHEET 42



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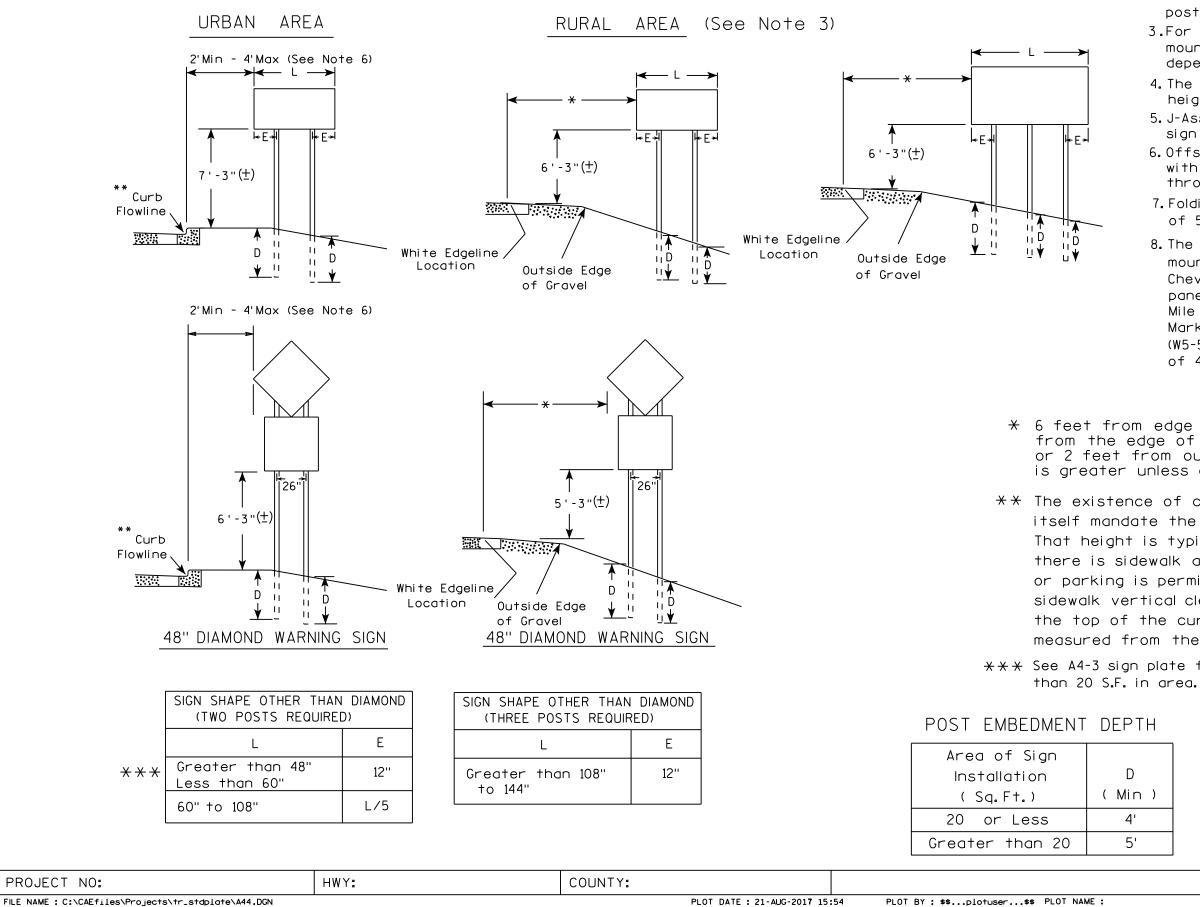
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

DATE <u>1/27/14</u>

SHEET NO:

PLATE NO. <u>A4-3B.1</u>

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FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

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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 $7'-3''(\pm)$ or $6'-3''(\pm)$ 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" (\pm) 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.

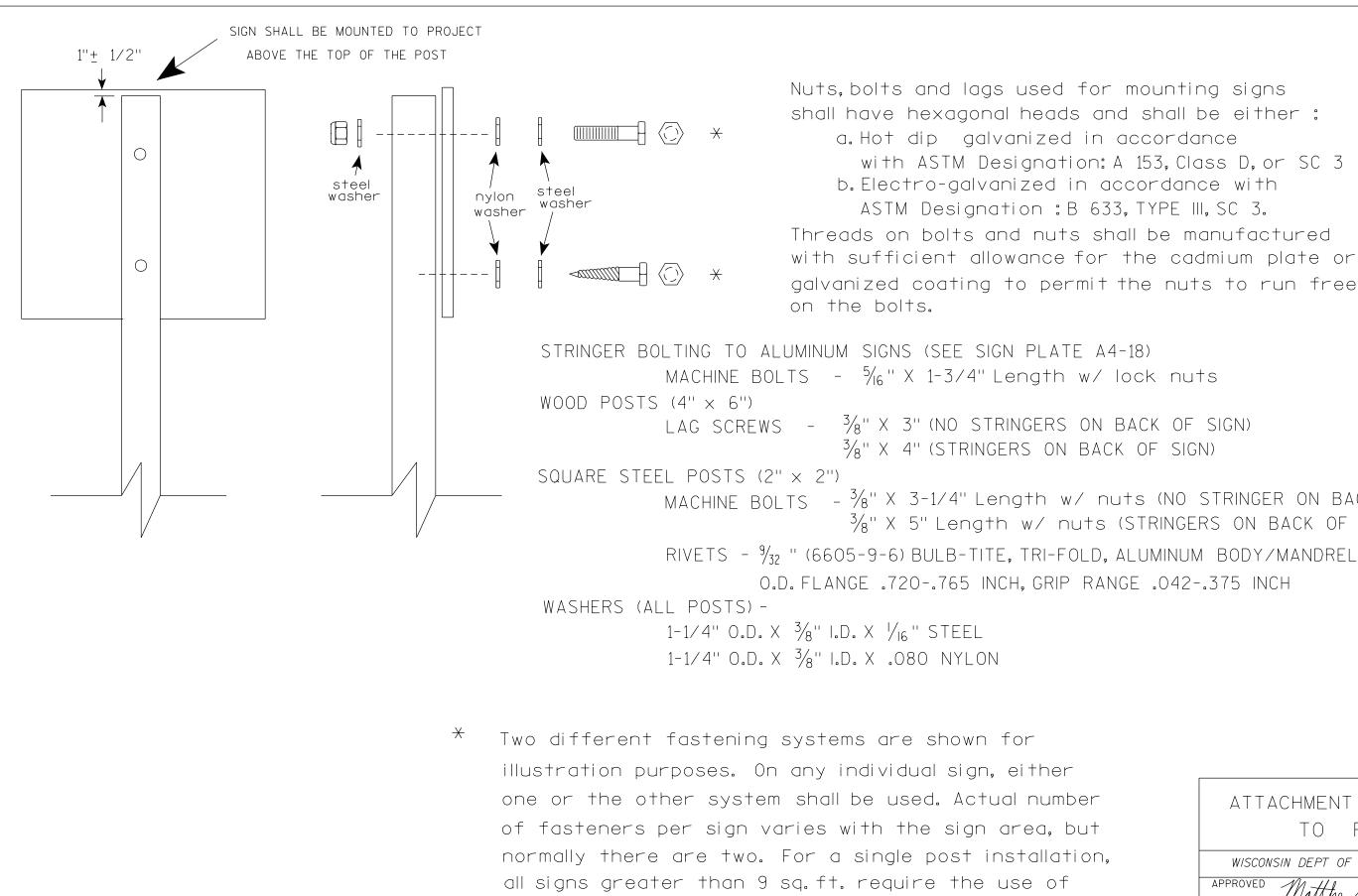
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

 \times \times See A4-3 sign plate for signs 4' or less in width and less

H	TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS
)	WISCONSIN DEPT OF TRANSPORTATION
,	APPROVED Matther & Rauch
	For State Traffic Engineer
	DATE 8/21/17 PLATE NO. 44-4.15
	SHEET NO: E
DI AT. CA	L 5 - 100 100007-1 00000

PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



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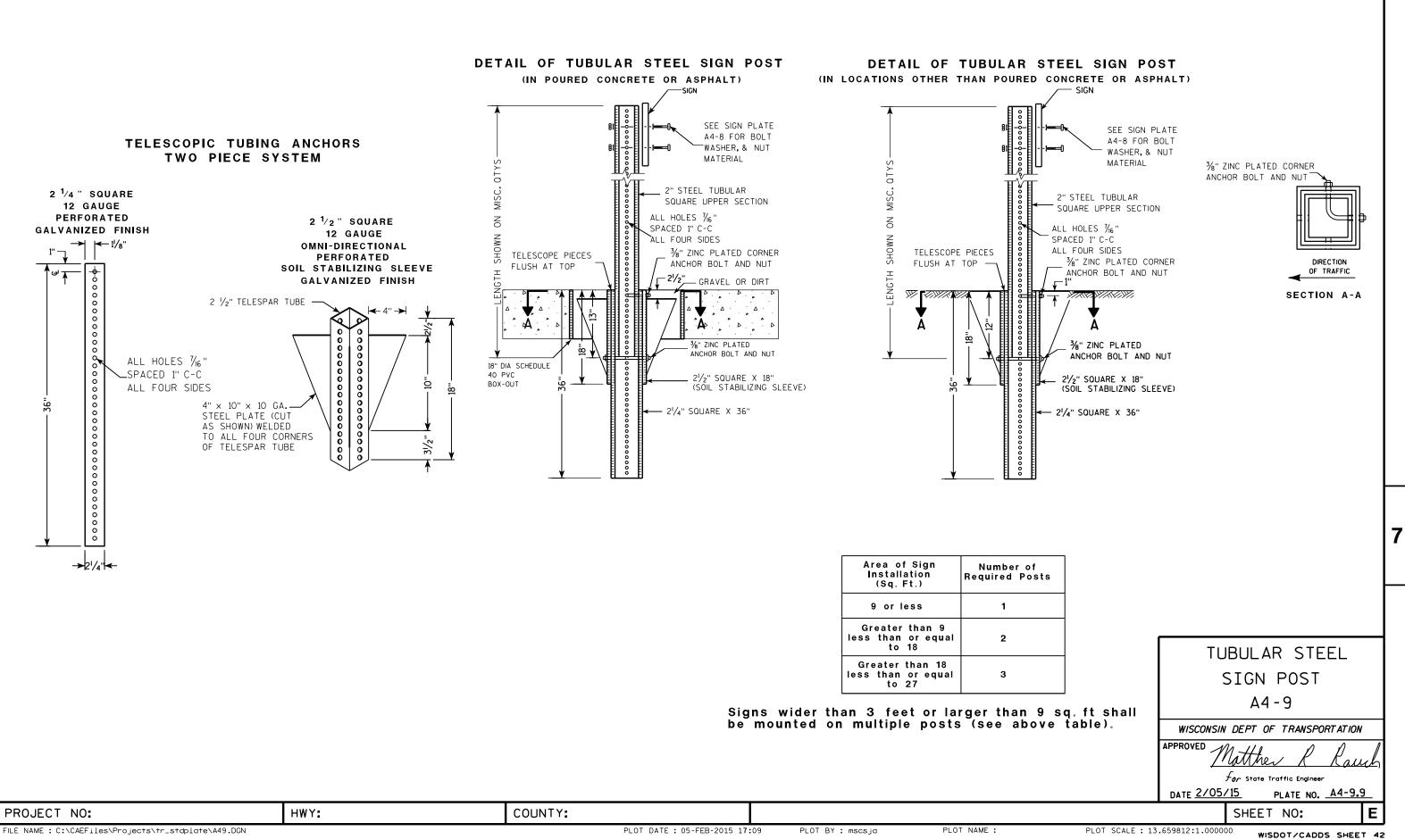
3 fasteners.

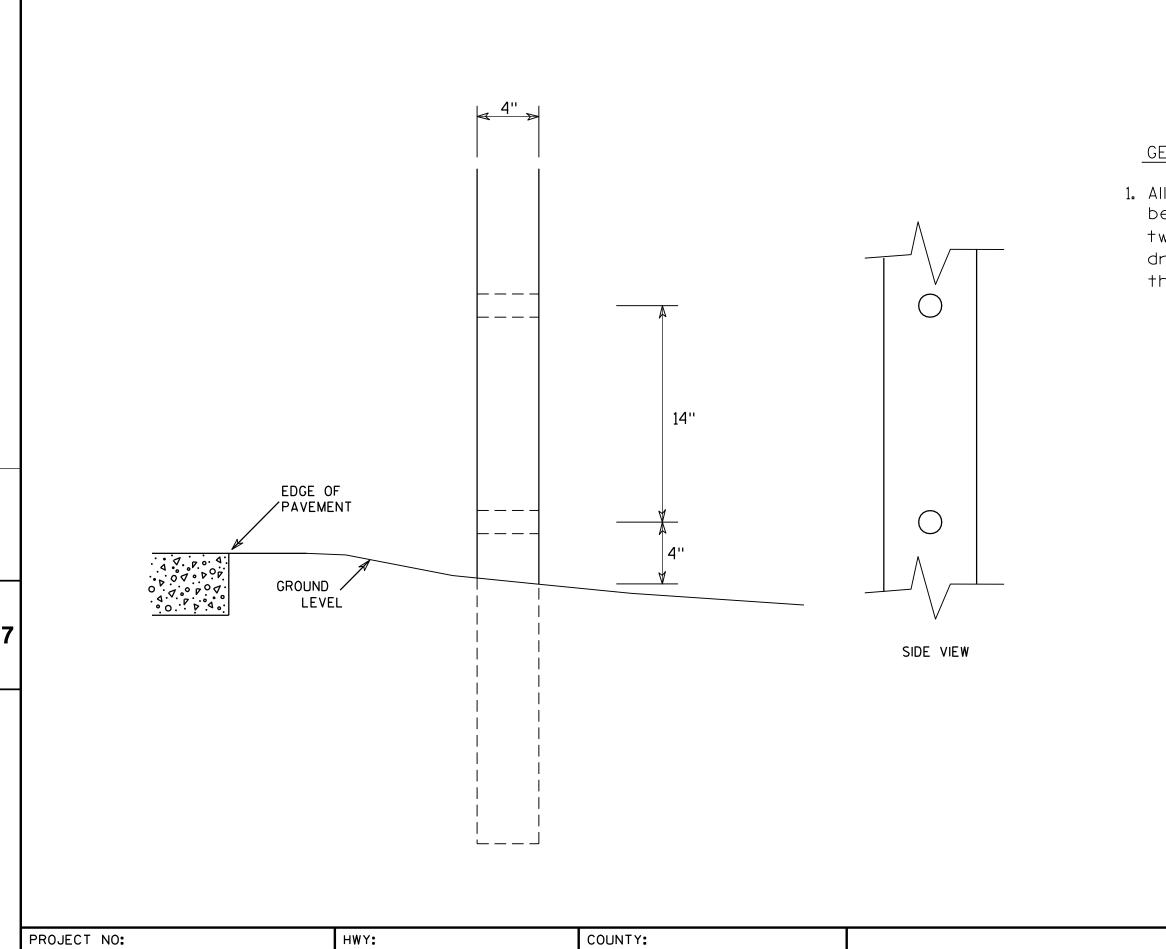
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely

 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)

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)

ATTACHMENT OF SIGNS TO POSTS
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
∽°r State Traffic Engineer
DATE <u>4/1/202</u> 0 PLATE NO. <u>A4-8.9</u>
SHEET NO: E



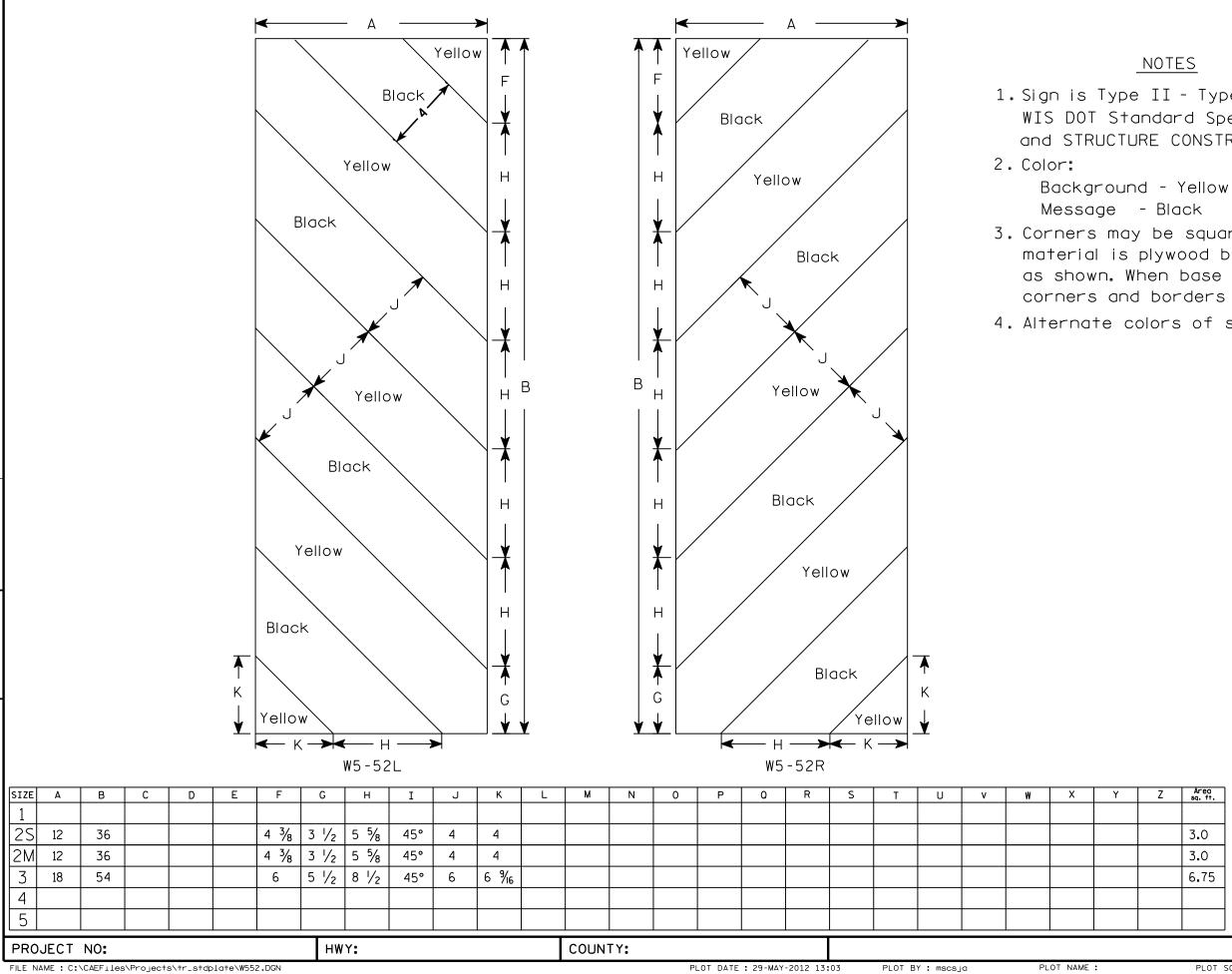


FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two $1\frac{1}{2}$ " diameter holes drilled perpendicular to the roadway centerline.

	4	Х	ô	WOO	DF	POST	
		MOD	IF	FICA	TI	SNC	
	WISC	onsin l	DEF	PT OF T	RANSI	PORTATION	'
	APPROVE	D		hester .	Γέ	Spang	
			tor	State Tr	affic Er	ngineer	
	DATE 3	/27/9	<u>17</u>	PLA	TE NO	<u>A4-11.2</u>	2
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FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W552.DGN

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PLOT NAME :

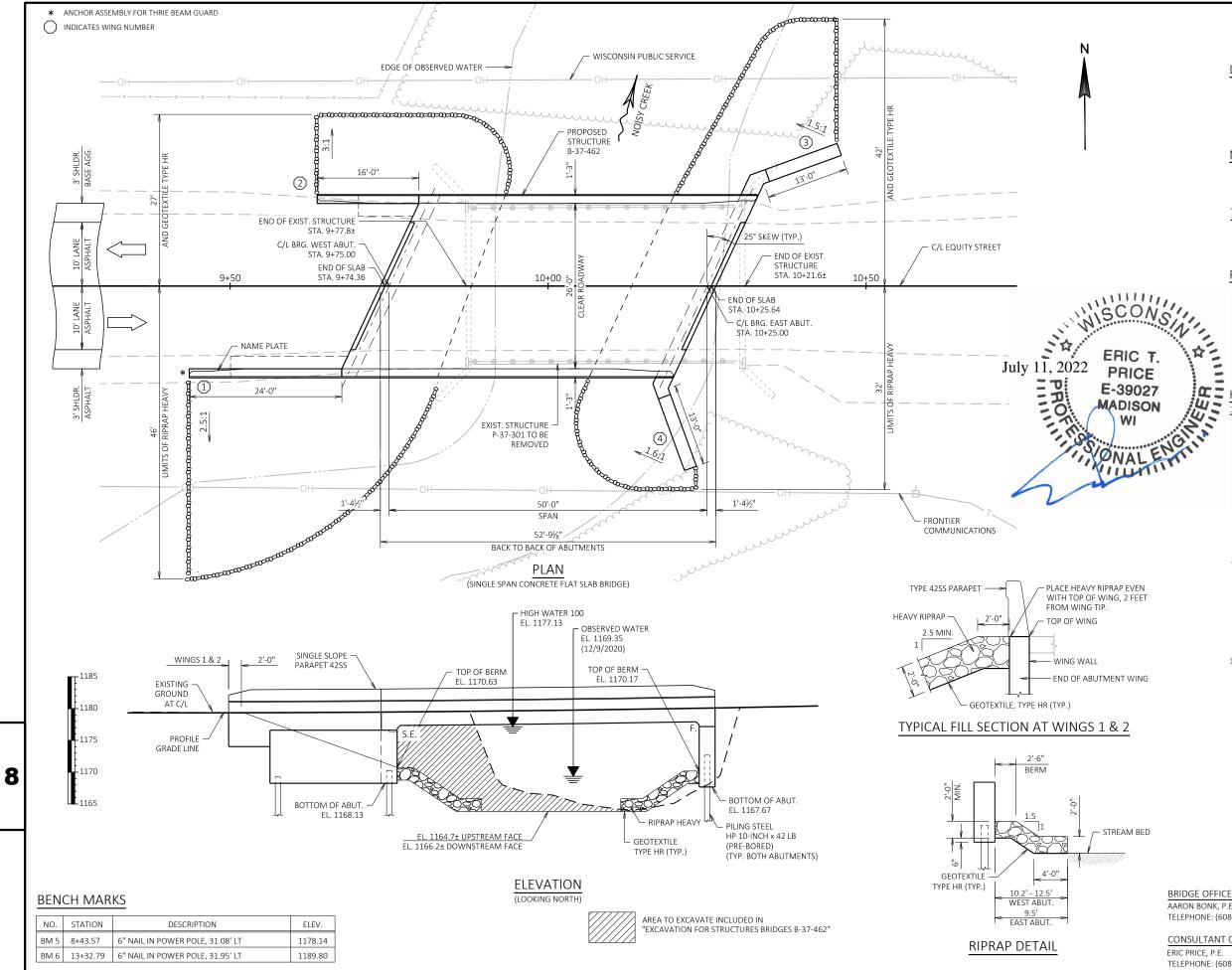
NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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. Alternate colors of stripes as shown.

Z	Area sq. ft.	STANDARD SIGN
		W5-52L & W5-52R
	3.0	
	3.0	WISCONSIN DEPT OF TRANSPORTATION
	6.75	APPROVED Matthew R Rauch
		for State Traffic Engineer
		DATE 5/29/12 PLATE NO. W5-52.9
		SHEET NO: E
	PLOT	SCALE : 4.961899:1.000000 WISDOT/CADDS SHEET 42

PLOT DATE : 29-MAY-2012 13:03



STATE PROJECT NUMBER

6678-01-70

DESIGN DATA

DESIGN LOADING	HL-93
INVENTORY RATING FACTOR	
OPERATIONAL RATING FACTOR	1.50
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV)	250 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 PSF.

MATERIAL PROPERTIES

CONCRETE MASONRY, SUPERSTRUCTURE	f'c = 4,000 PSI
ALL OTHER	f'c = 3,500 PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT	fy = 60,000 PS

TRAFFIC DATA

ADT (2023) = 185 ADT (2043) = 198 DESIGN SPEED = 45 MPH

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 10-INCH X 42 LB STEEL PILING SEATED IN PREBORED HOLES CORED 3 FEET MINIMUM INTO ROCK. PILE DRIVING IS NOT REQUIRED.

THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS 180 TONS MULTIPLIED BY A RESISTANCE FACTOR OF 0.5. ESTIMATED 15' LONG AT THE WEST ABUTMENT AND 10' AT THE EAST ABUTMENT.

C THYDRAULIC DATA

100 YEAR FREQUENCY Q₁₀₀ = 2,785 C.F.S. VEL. = 7.4 F.P.S. HW 100 = EL. 1177.13 WATERWAY AREA = 375 SQ. FT. DRAINAGE AREA = 12.4 SQ. MI. SCOUR CRITICAL CODE = 5 OVERTOPPING FREQUENCY = N/A

2 YEAR FREQUENCY

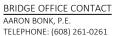
Q₂ = 635 C.F.S. VEL. = 2.7 F.P.S. HW₂ = EL. 1173.10

LIST OF DRAWINGS

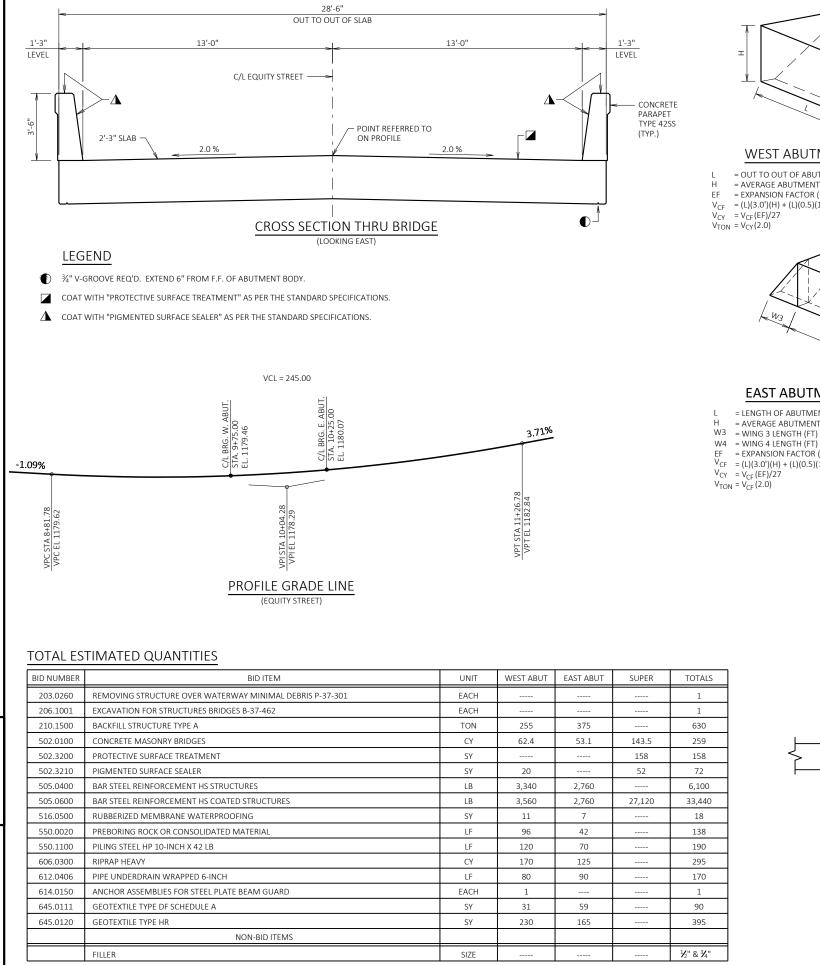
- GENERAL PLAN
- CROSS SECTION & QUANTITIES
- SUBSURFACE EXPLORATION
- WEST ABUTMENT WEST ABUTMENT DETAILS EAST ABUTMENT

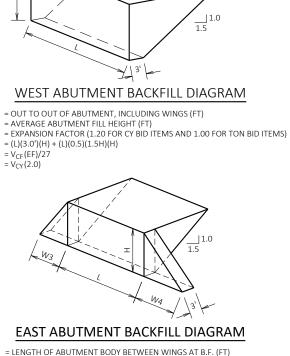
- EAST ABUTMENT DETAILS
- SUPERSTRUCTURE
- SUPERSTRUCTURE DETAILS 10. SINGLE SLOPE PARAPET 42SS

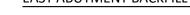
NO.	DATE		RE\	/ISION			BY	
		A				=		8
ACC	CEPTED _			ESIGN ENG	NEER		5/22 Date	
L								
		EQUITY S	IREEIO	OVER NOI:	SY CR	EEK		
COU	JNTY M	ARATHON		TOWN/€	FAU	LLAGE PI FINF		
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS								
DES BY	signed E	DESIGN CK'D.	BH	DRAWN BY	PKF	PLANS CK'D.	ETP	
		GENER			SH	EET 1	OF 10	



CONSULTANT CONTACT TELEPHONE: (608) 826-6146

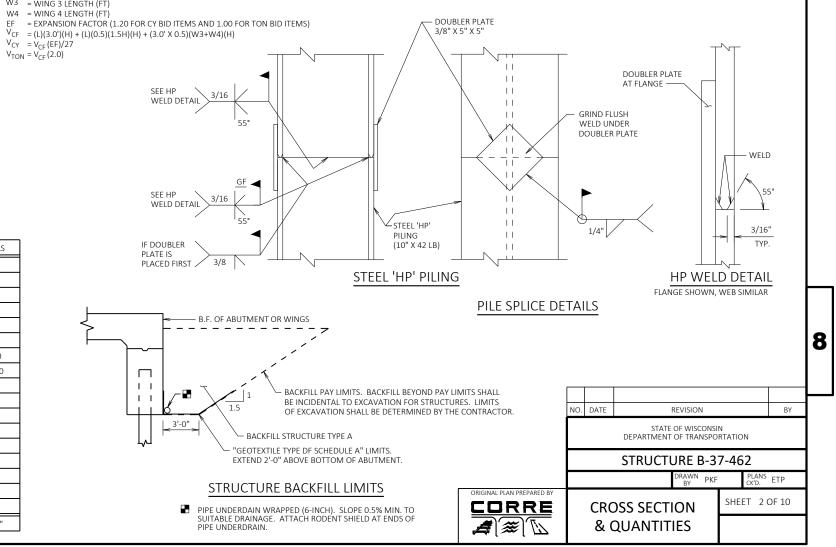






- = AVERAGE ABUTMENT FILL HEIGHT (FT)

- - SEE HP 3/16 WELD DETAIL 55 SEE HE 3/16 WELD DETAIL PILINO IF DOUBLER PLATE IS



C:\OD\CORRE, INC\PROJECTS - WI-NC REGION\6678-01-00_MARATHON CO_EQUITY STREET\500_CADD\503_STRUCTURES\503.3_FINAL\080201 CS_EQUITY ST.DWG FILE NAME :

8

PLOT DATE 7/11/2022 9:33 AM **GENERAL NOTES**

DESIGNATION M213.

BAR SIZE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS, OR AS DIRECTED BY THE ENGINEER.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-37-462" SHALL BE THE EXISTING GROUNDLINE.

THE EXISTING STRUCTURE P-37-301, TO BE REMOVED, IS A SINGLE SPAN STEEL DECK GIRDER BRIDGE, 43.8 FT. LONG WITH A 23.0 FT. CLEAR ROADWAY WIDTH.

THE BACKFILL QUANTITIES ARE BASED ON THE LIMITS SHOWN ON THIS SHEET AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF SLAB AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT BOTH ABUTMENTS.

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE ENTIRE INSIDE FACE AND TOP SURFACE OF THE PARAPETS ON THE STRUCTURE AND WINGS 1 & 2.

AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

STATE PROJECT NUMBER

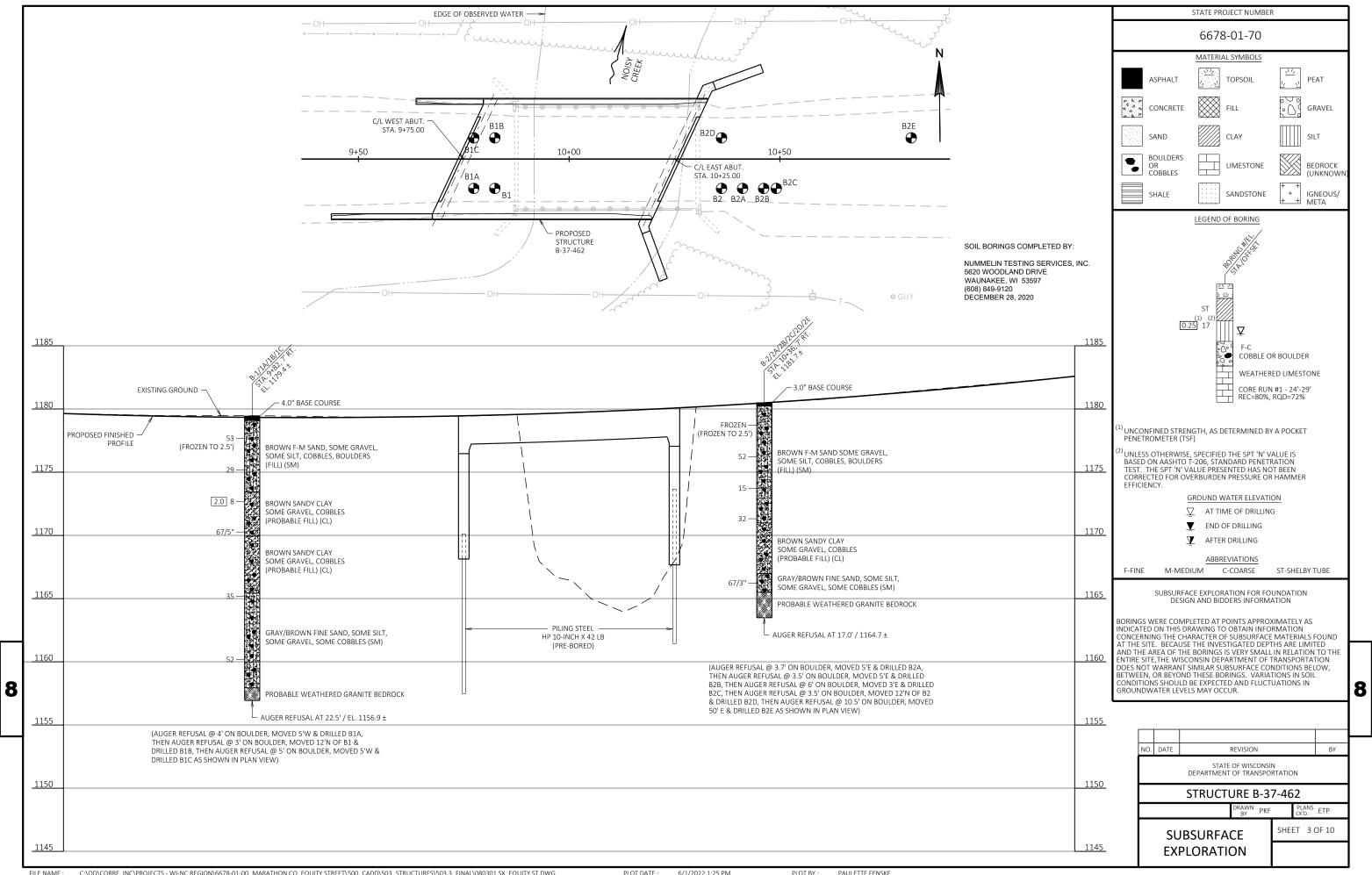
DRAWINGS SHALL NOT BE SCALED.

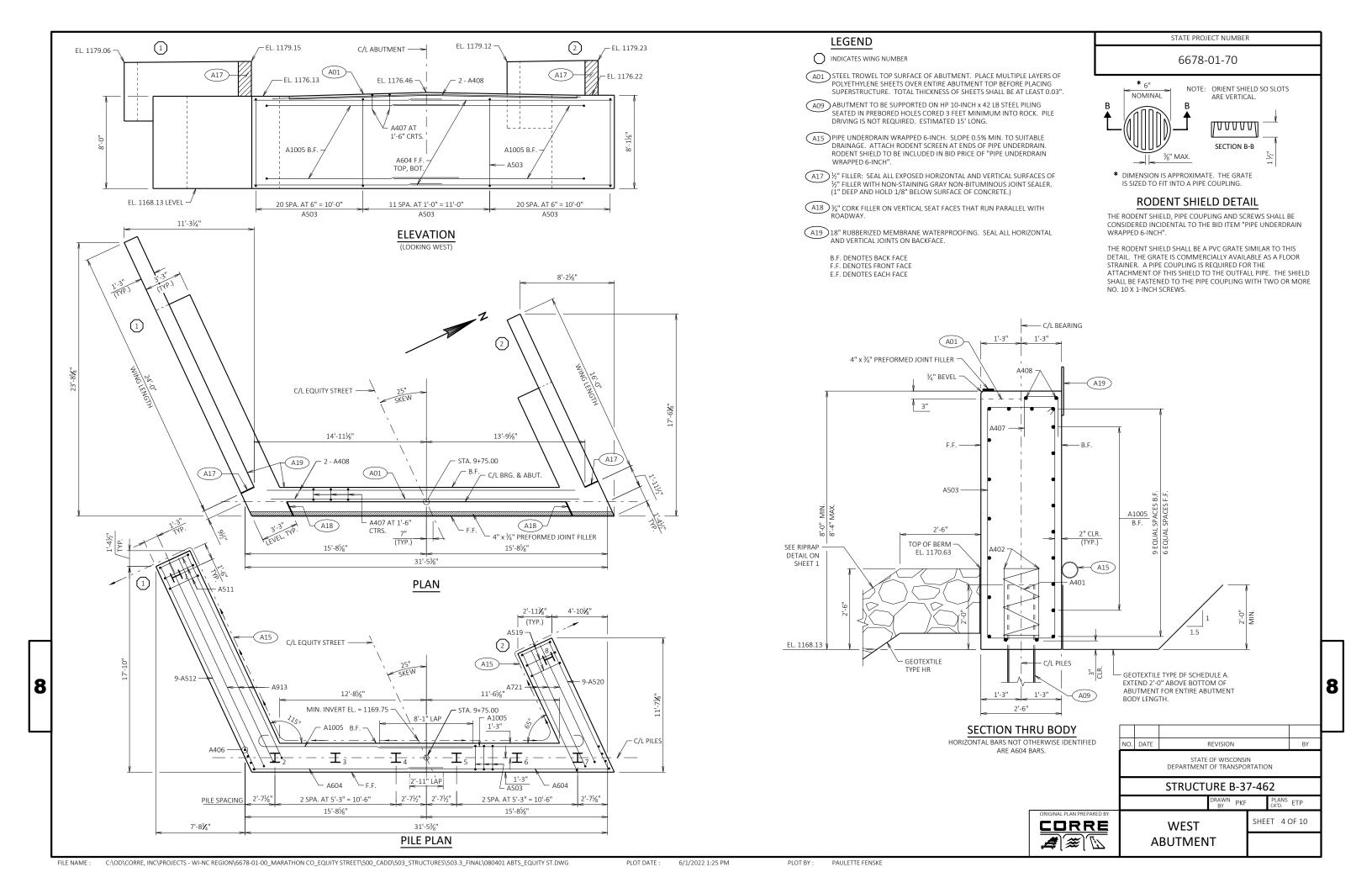
6678-01-70

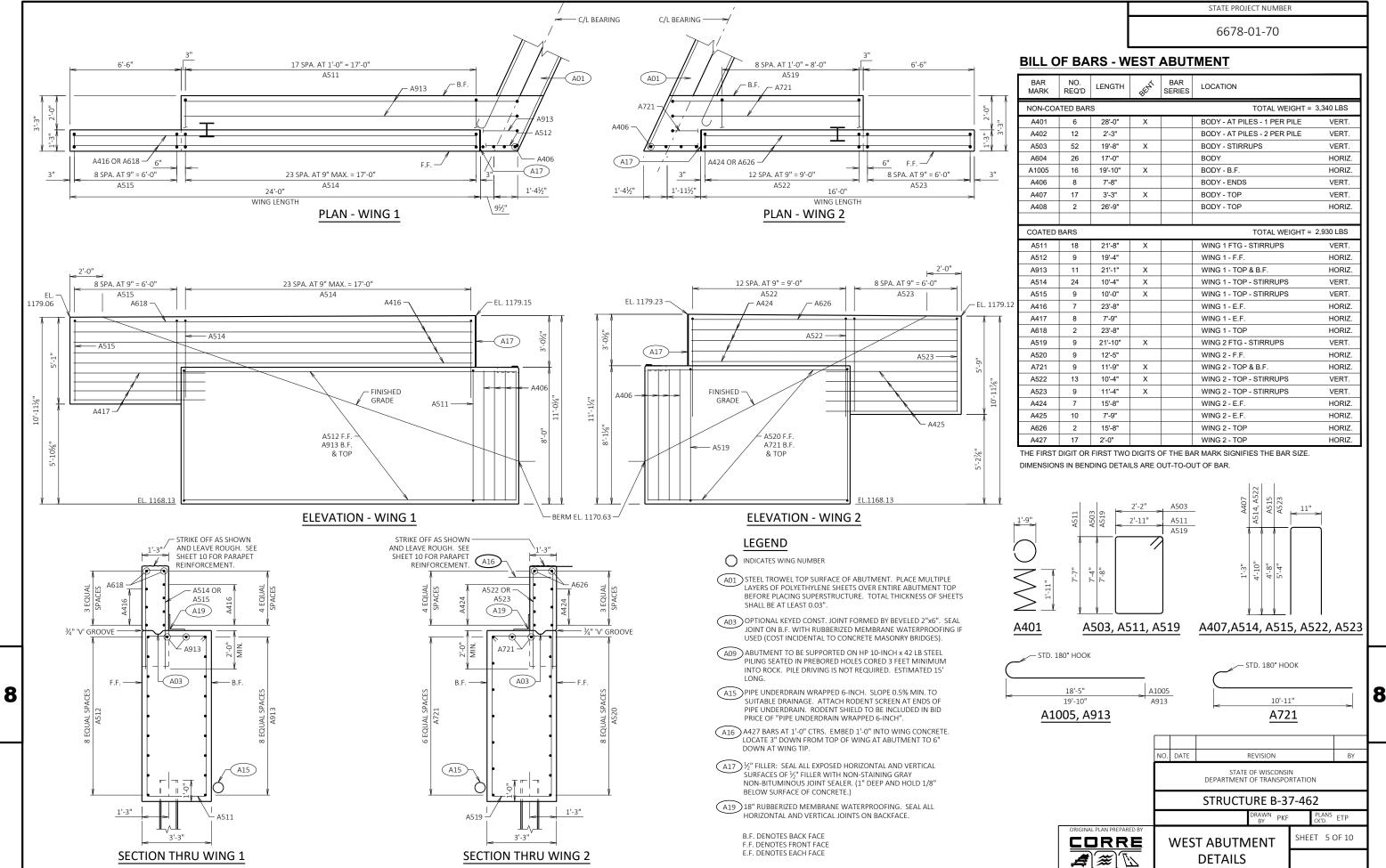
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE

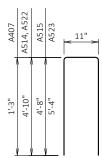
JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M153 TYPE I, II OR III OR AASHTO



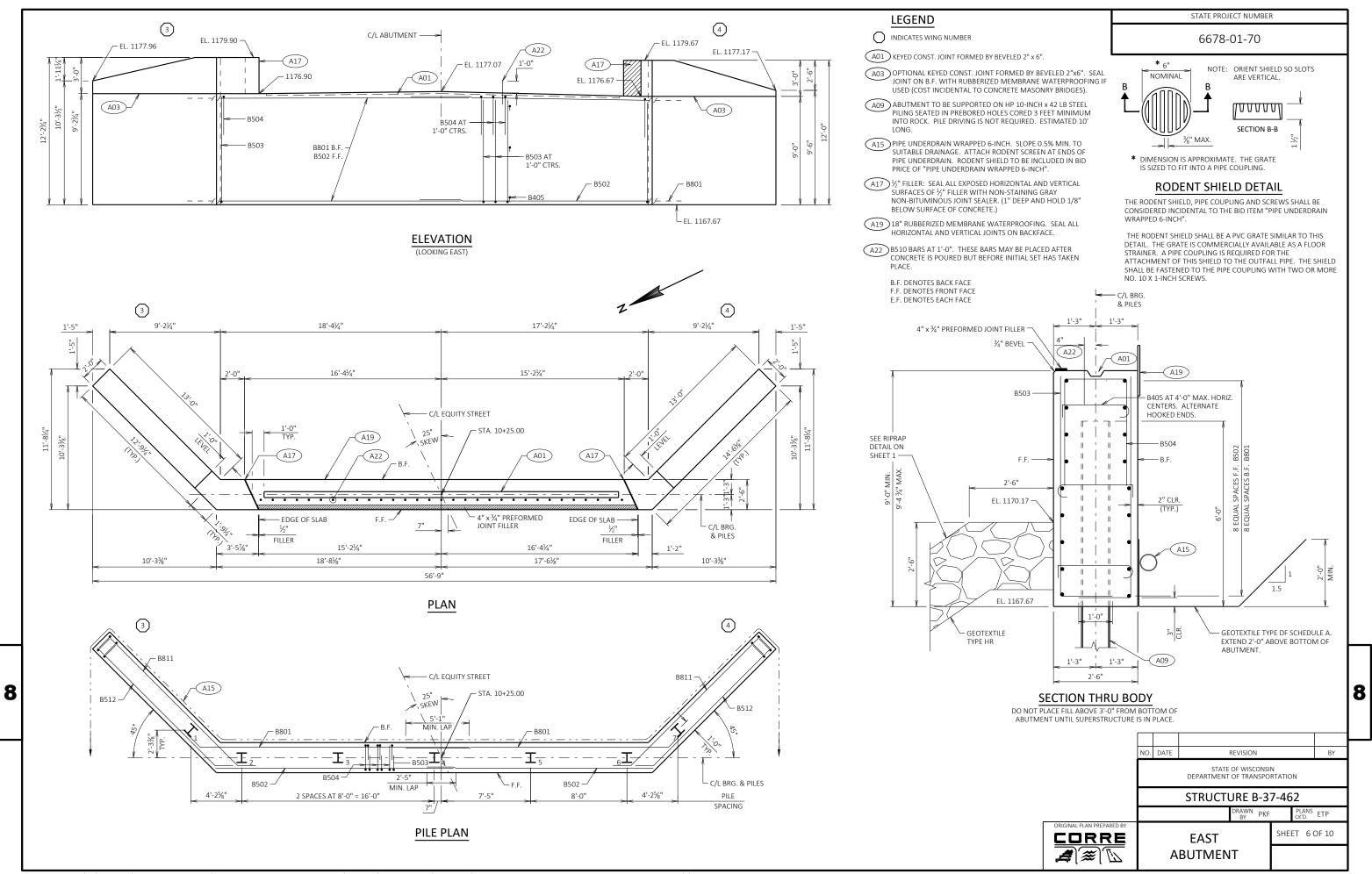


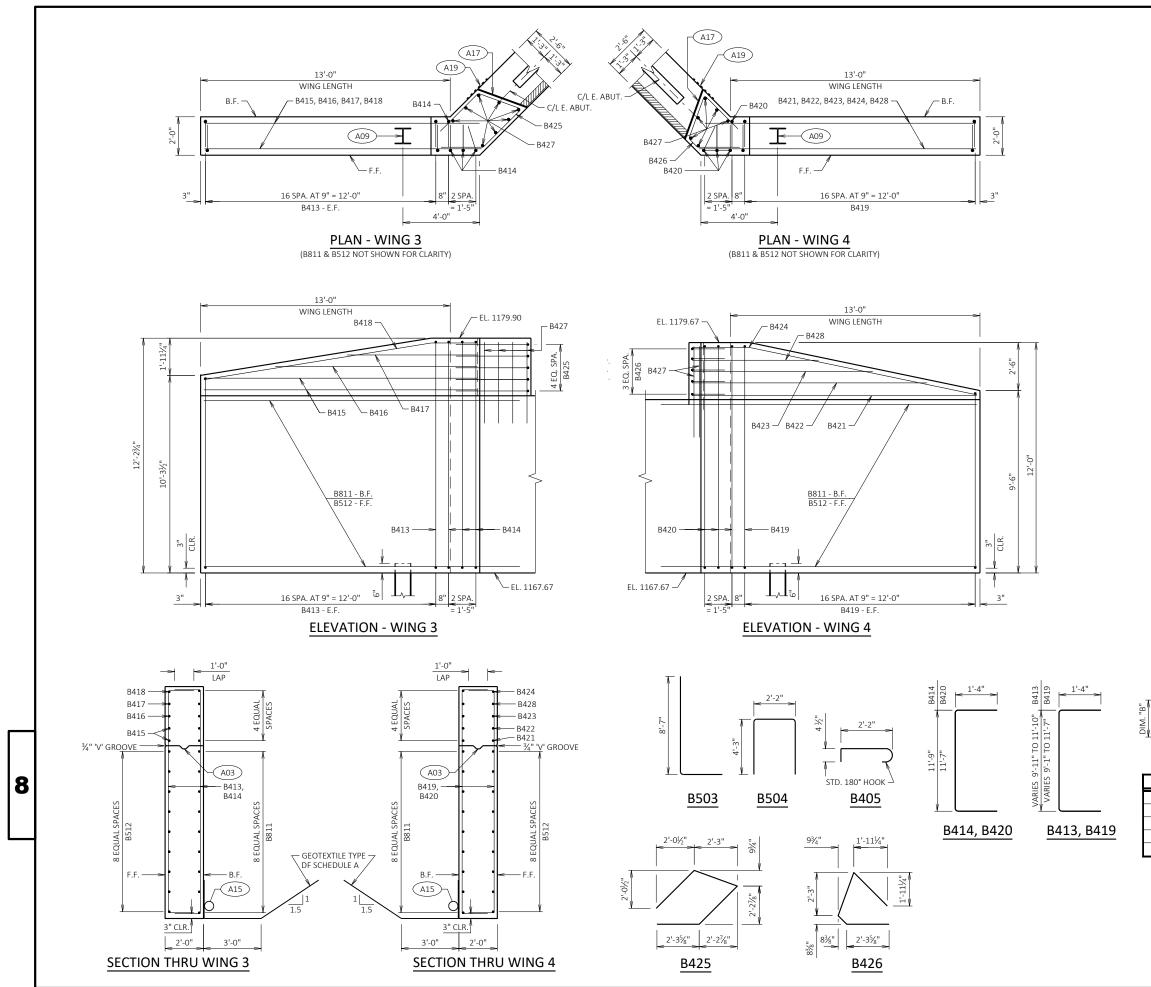


BAR ARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
ON-COA	ATED BAR	IS			TOTAL WEIGHT =	3,340 LBS
401	6	28'-0"	Х		BODY - AT PILES - 1 PER PILE	VERT.
402	12	2'-3"			BODY - AT PILES - 2 PER PILE	VERT.
\503	52	19'-8"	х		BODY - STIRRUPS	VERT.
\604	26	17'-0"			BODY	HORIZ.
1005	16	19'-10"	X		BODY - B.F.	HORIZ.
406	8	7'-8"			BODY - ENDS	VERT.
407	17	3'-3"	x		BODY - TOP	VERT.
408	2	26'-9"			BODY - TOP	HORIZ.
DATED I	BARS				TOTAL WEIGHT = 2	2,930 LBS
\511	18	21'-8"	X		WING 1 FTG - STIRRUPS	VERT.
\$12	9	19'-4"			WING 1 - F.F.	HORIZ.
\913	11	21'-1"	х		WING 1 - TOP & B.F.	HORIZ.
\$14	24	10'-4"	x		WING 1 - TOP - STIRRUPS	VERT.
\$15	9	10'-0"	х		WING 1 - TOP - STIRRUPS	VERT.
416	7	23'-8"			WING 1 - E.F.	HORIZ.
417	8	7'-9"			WING 1 - E.F.	HORIZ.
\618	2	23'-8"			WING 1 - TOP	HORIZ.
\$19	9	21'-10"	Х		WING 2 FTG - STIRRUPS	VERT.
\$520	9	12'-5"			WING 2 - F.F.	HORIZ.
\721	9	11'-9"	X		WING 2 - TOP & B.F.	HORIZ.
\$522	13	10'-4"	х		WING 2 - TOP - STIRRUPS	VERT.
\$523	9	11'-4"	х		WING 2 - TOP - STIRRUPS	VERT.
424	7	15'-8"			WING 2 - E.F.	HORIZ.
425	10	7'-9"			WING 2 - E.F.	HORIZ.
A626	2	15'-8"			WING 2 - TOP	HORIZ.
427	17	2'-0"			WING 2 - TOP	HORIZ.









PLOT DATE : 6/1/2022 1:26 PM

PAULETTE FENSKE PLOT BY :

STATE PROJECT NUMBER

6678-01-70

BILL OF BARS - EAST ABUTMENT

bar Mark	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
NON-COA	TED BARS	<u> </u>			TOTAL WEIGHT	= 2,760 LBS
B801	18	24'-2"	Х		BODY - B.F.	HORIZ.
B502	18	19'-3"			BODY - F.F.	HORIZ.
B503	74	10'-1"	х		BODY - E.F.	VERT.
B504	37	10'-5"	х		BODY - TOP	VERT.
B405	30	3'-0"	х		BODY - TIES	LONGIT.
COATED B	BARS				TOTAL WEIGHT	= 2,130 LBS
B510	32	2'-0"			BODY - TOP	VERT.
B811	18	17'-5"	х		WINGS 3 & 4 - B.F.	HORIZ.
B512	18	15'-8"	х		WINGS 3 & 4 - F.F.	HORIZ.
B413	34	13'-5"	х	Х	WING 3 - E.F.	VERT.
B414	4	14'-3"	х		WING 3 - E.F.	VERT.
B415	4	14'-2"			WING 3 - TOP	HORIZ.
B416	2	10'-4"			WING 3 - TOP	HORIZ.
B417	2	6'-4"			WING 3 - TOP	HORIZ.
B418	2	14'-4"	х		WING 3 - TOP	HORIZ.
B419	34	12'-10"	х	Х	WING 4 - E.F.	VERT.
B420	4	14'-1"	х		WING 4 - E.F.	VERT.
B421	2	14'-2"			WING 4 - TOP	HORIZ.
B422	2	11'-8"			WING 4 - TOP	HORIZ.
B423	2	8'-7"			WING 4 - TOP	HORIZ.
B424	2	14'-5"	х		WING 4 - TOP	HORIZ.
B425	5	10'-7"	х		WING 3 - TOP	HORIZ.
B426	5	8'-3"	х		WING 4 - TOP	HORIZ.
B427	14	4'-4"			WINGS 3 & 4	VERT.
B428	2	5'-7"			WING 4 - TOP	HORIZ.

THE FIRST DIGIT OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR.

BAR SERIES TABLE

bar Mark	NO. REQ'D.	LENGTH					
B413	2 SERIES OF 17	12'-5" TO 14'-4"					
B419 2 SERIES OF 17 11'-7" TO 14'-							

BUNDLE AND TAG EACH SERIES SEPARATELY.

LEGEND

(AXX) FOR SYMBOL DESCRIPTIONS SEE SHEET 6.



ρIΜ.	"A"

BAR	DIM. "A"	DIM. "B"
B801	1'-0 3/4"	1'-0 3/4"
B811	1'-0 3/4"	1'-0 3/4"
B512	1'-0 3/4"	1'-0 3/4"
B418	2'-3 7/8"	4 1/2"
B424	2'-3 5/8"	5 3/4"



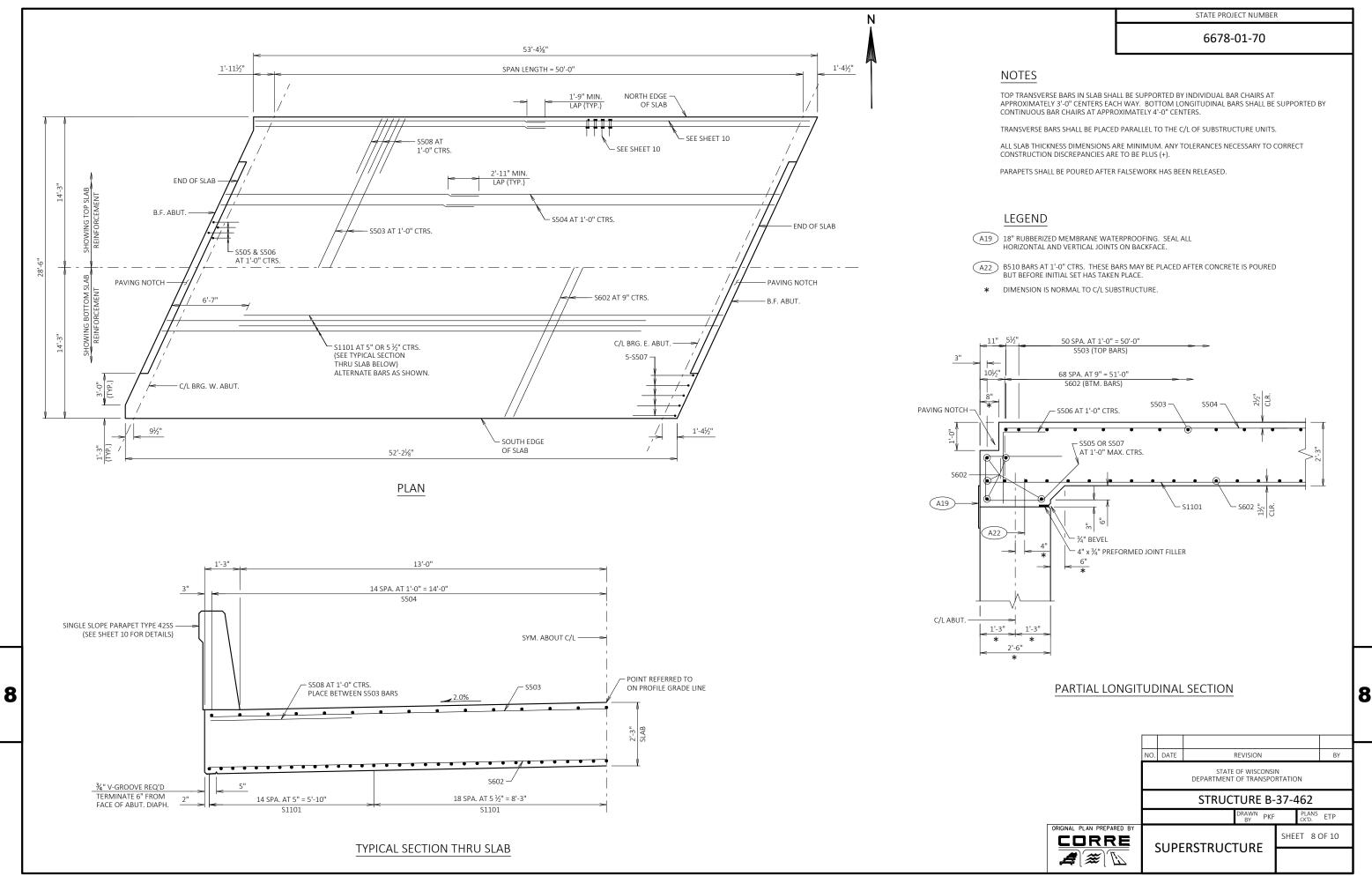
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

8

BY

STRUCTURE B-37-462



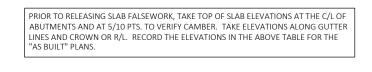


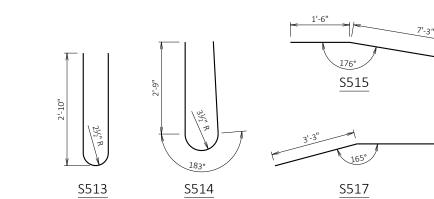
FILE NAME : C:\OD\CORRE, INC\PROJECTS - WI-NC REGION\6678-01-00_MARATHON CO_EQUITY STREET\500_CADD\503_STRUCTURES\503.3_FINAL\080601 SS_EQUITY ST.DWG

PLOT DATE : 6/1/2022 1:27 PM PLOT BY : PAULETTE FENSKE

PLOT DATE : 6/1/2022 1:27 PM

PAULETTE FENSKE PLOT BY :





C/L BRG.

E. ABUT. 1179.92 1180.07

1179.71

SURVEY TOP OF SLAB ELEVATIONS

TOP OF SLAB ELEVATIONS

LOCATION

NORTH FLOW LINE C/L STRUCTURE

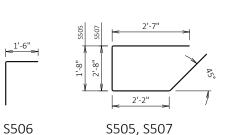
SOUTH FLOW LINE

8

NORTH FLOW LINE	1179.24	1179.29	1179.34	1179.39	1179.45	1179.52	1179.59	1179.66	1179.74	1179.83	1
C/L STRUCTURE	1179.46	1179.49	1179.54	1179.59	1179.64	1179.70	1179.76	1179.83	1179.91	1179.98	1
SOUTH FLOW LINE	1179.15	1179.19	1179.23	1179.27	1179.32	1179.37	1179.43	1179.49	1179.56	1179.63	1
ELEVATIONS SHOWN ARE FINISHED DECK AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION AND FUTURE CREEP.											

0.4

0.3

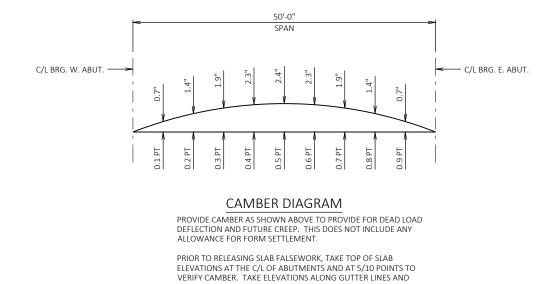




S509

BAR MARK	NO. REQ'D.	LENGTH
S519	2 SERIES OF 6	4'-9" TO 6'-1"

BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
COATED	BARS				TOTAL WEIGHT =	27,120 LBS
S1101	65	46'-0"			SLAB - BTM	LONGIT.
S602	79	31'-1"			SLAB - BTM	TRANS.
S503	53	31'-1"			SLAB - TOP	TRANS.
S504	58	27'-8"			SLAB - TOP	LONGIT.
S505	42	8'-2"	Х		SLAB - ABUT. DIAPHRAGMS	VERT.
S506	42	4'-1"	Х		SLAB - ABUT. DIAPHRAGMS	VERT.
S507	20	9'-2"	Х		SLAB - ABUT. DIAPHRAGMS	VERT.
S508	104	5'-0"			SLAB - EDGES	TRANS.
S509	134	4'-5"	Х		PARAPETS	VERT.
S510	134	6'-8"	Х		PARAPETS	VERT.
S511	22	2'-9"	Х		PARAPETS - TRANSITION	VERT.
S512	34	4'-4"	Х		PARAPETS - TRANSITION	VERT.
S513	10	6'-5"	Х		PARAPETS - TRANSITION	VERT.
S514	12	6'-6"	Х		PARAPETS - TRANSITION	VERT.
S515	2	10'-6"	Х		PARAPETS - TRANSITION	HORIZ.
S516	10	10'-5"			PARAPETS - TRANSITION	HORIZ.
S517	4	10'-5"	Х		PARAPETS - TRANSITION	HORIZ.
S518	32	21'-8"			PARAPETS	HORIZ.
S519	12	5'-5"	Х	х	PARAPETS	VERT.



CAMBER SHOWN IS BASED ON 3 TIMES THE DEADLOAD DEFLECTION.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)

0.5

0.6

0.7

0.8

0.9

CROWN OR C/L.

SLAB THICKNESS

EQUALS TOP OF SLAB FALSEWORK ELEVATION.

CAMBER

0.1

0.5 PT

LESS

PLUS

PLUS

C/L BRG.

W. ABUT.

C/L BRG.

W. ABUT.

TOP OF SLAB ELEVATION AT FINAL GRADE

0.2

C/L BRG. E. ABUT.



6678-01-70

BILL OF BARS - SUPERSTRUCTURE

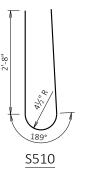
THE FIRST DIGIT OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

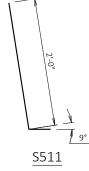
DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR.

SEE SHEET 10 FOR PARAPET REINFORCEMENT DETAILS.

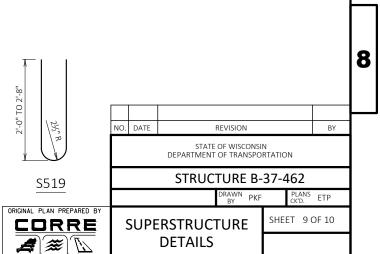
BUNDLE AND TAG EACH SERIES SEPARATELY.

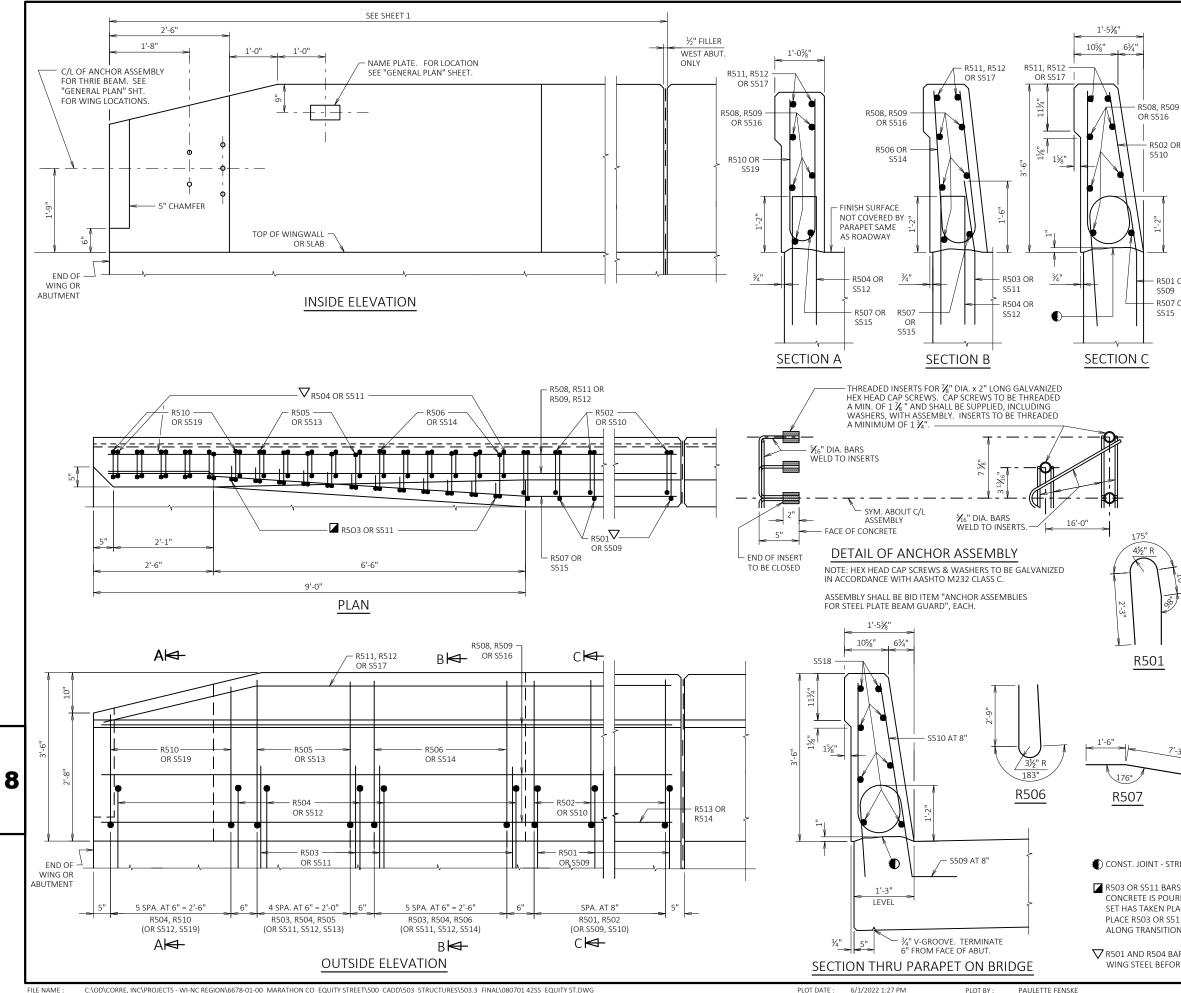












PLOT DATE : 6/1/2022 1:27 PM

PAULETTE FENSKE

STATE PROJECT NUMBER

6678-01-70

BAR SERIES NO. REQ'D LENGTH LOCATION MARK COATED BARS TOTAL WEIGHT = 1,250 LBS R501 5'-10" PARAPETS - WINGS 1 & 2 VERT. 34 Х R502 34 6'-8" PARAPETS - WINGS 1 & 2 VERT. Х R503 22 3'-0" Х PARAPETS - WINGS 1 & 2 VERT. R504 34 5'-7" Х PARAPETS - WINGS 1 & 2 VERT. PARAPETS - WINGS 1 & 2 R505 10 6'-5" Х VERT. R506 6'-6" PARAPETS - WINGS 1 & 2 VERT. 12 х R507 10'-3" PARAPETS - WINGS 1 & 2 HORIZ. 2 х R508 23'-5" PARAPETS - WING 1 HORIZ. 5 R509 15'-5" PARAPETS - WING 2 HORIZ. 5 R510 5'-5" PARAPETS - WINGS 1 & 2 VERT. R501 O 12 Х S509 R511 23'-6" PARAPETS - WING 1 HORIZ. 2 Х R507 O R512 2 15'-6" Х PARAPETS - WING 2 HORIZ. S515 R513 1 14'-8" PARAPETS - WING 1 HORIZ. R514 6'-8" PARAPETS - WING 2 HORIZ. 1 THE FIRST DIGIT OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. **BAR SERIES TABLE** BAR LENGTH NO. REQ'D. MARK R510 2 SERIES OF 6 4'-9" TO 6'-1" BUNDLE AND TAG EACH SERIES SEPARATELY 21⁄2" R 189 R502 R503 R504 R505 21⁄3" R 165° 8 184° R510 R511, R512 NO. DATE REVISION BY CONST. JOINT - STRIKE OFF AS SHOWN. STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION R503 OR S511 BARS MAY BE PLACED AFTER STRUCTURE B-37-462 RAWN PKF PLANS ETP

SINGLE SLOPE

PARAPET 42SS

SHEET 10 OF 10

BILL OF BARS

BAR

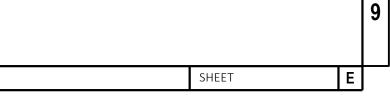
CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 OR S511 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

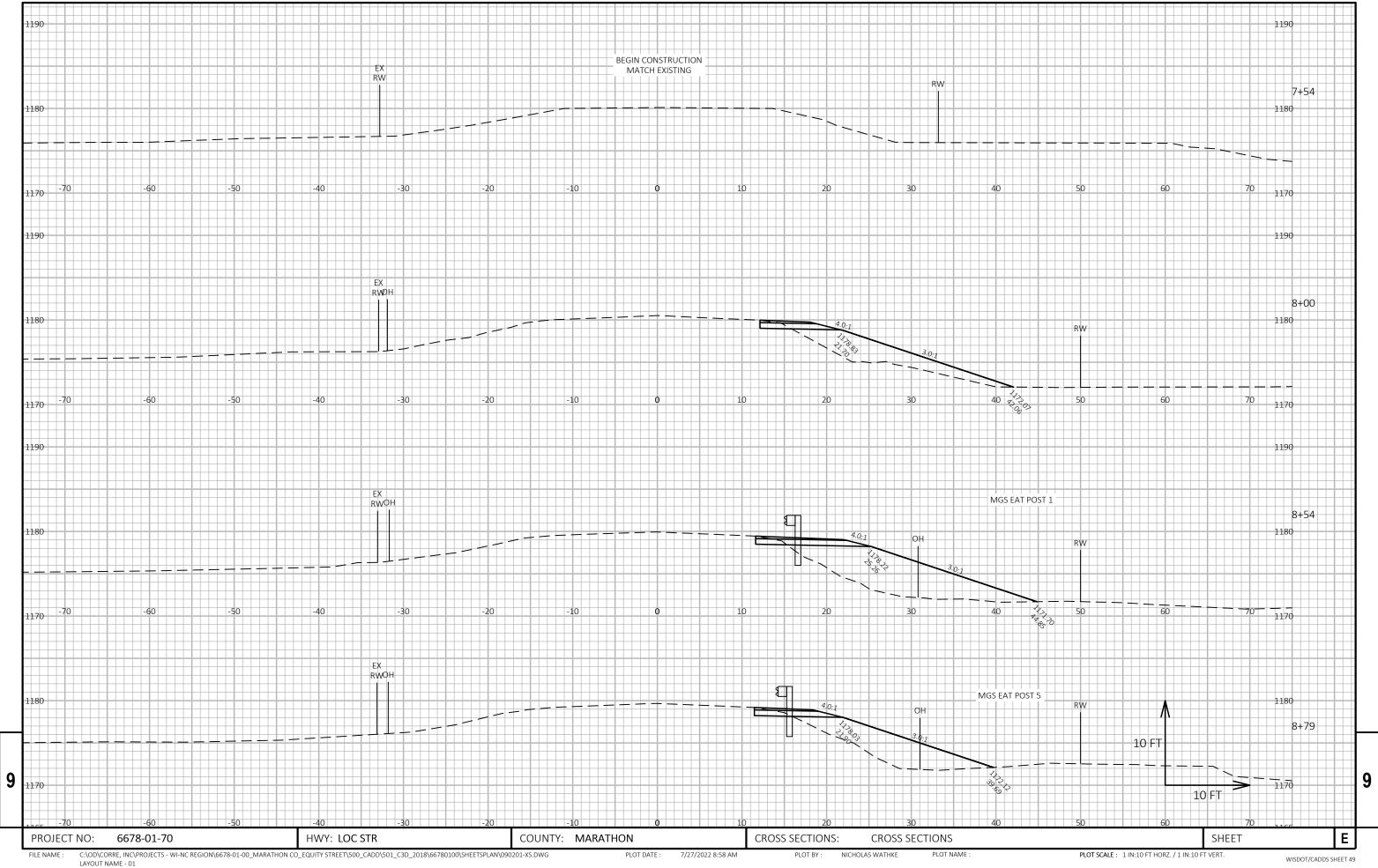
 ∇ R501 and R504 bars to be tied to WING STEEL BEFORE WING IS POURED.

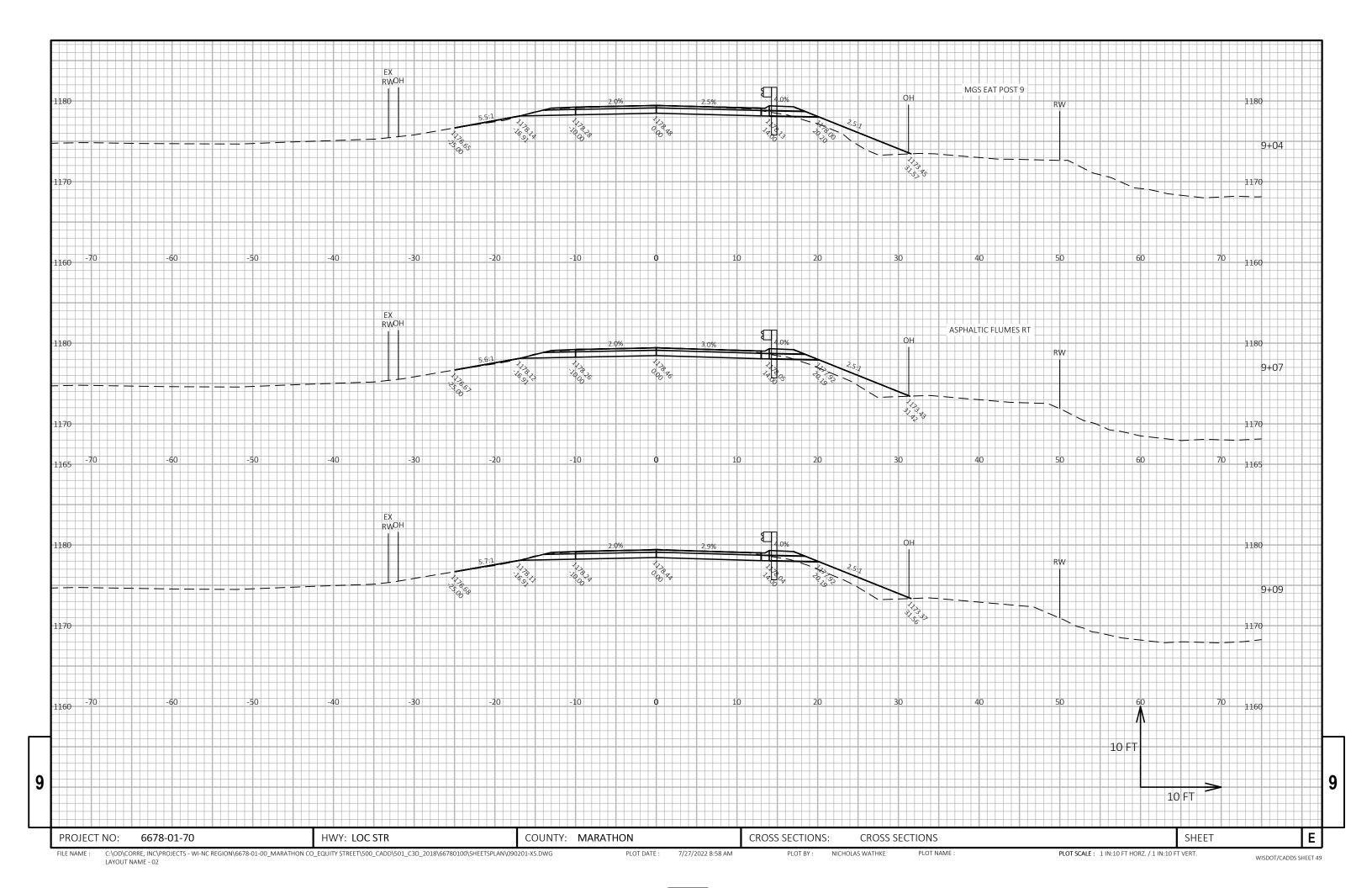
		AREA (SF)			INCRE	MENTAL VOL (CY) (UNADJ	USTED)	CUMULATIVE VOL (CY)		
STATION	DISTANCE	сит	SALVAGED/UNUSABLE	FILL	сит	SALVAGED/UNUSABLE	FILL	СUТ	EXPANDED FILL	MASS ORDINATE
		001	PAVEMENT MATERIAL			PAVEMENT MATERIAL		1.00	1.25	
										NOTE 1
7+76.71	0.00	2.45	0.00	20.11	0	0	0	0	0	0
8+00.00	23.29	2.41	0.00	42.32	2	0	27	2	34	-32
8+25.00	25.00	2.19	0.00	71.00	2	0	52	4	99	-95
8+53.54	28.54	2.33	0.00	84.18	2	0	82	6	201	-195
8+78.54	25.00	2.63	0.00	50.72	2	0	62	8	279	-271
9+03.54	25.00	3.30	0.00	8.80	3	0	28	11	314	-303
9+25.00	21.46	28.45	0.00	14.32	13	0	9	24	325	-301
9+43.57	18.57	25.83	0.00	0.86	19	0	5	43	331	-288
9+63.68	20.11	24.58	0.00	4.16	19	0	2	62	334	-272
				STRUG	CTURE B-3	37-462				
10+28.00	0.00	0.03	0.00	164.01	0	0	0	62	334	-272
10+43.28	15.28	17.58	0.00	0.00	5	0	46	67	391	-324
10+50.00	6.72	31.68	0.00	54.20	6	0	7	73	400	-327
10+75.00	25.00	36.91	0.00	11.43	32	0	30	105	438	-333
10+91.04	16.04	0.00	0.00	0.00	11	0	3	116	441	-325

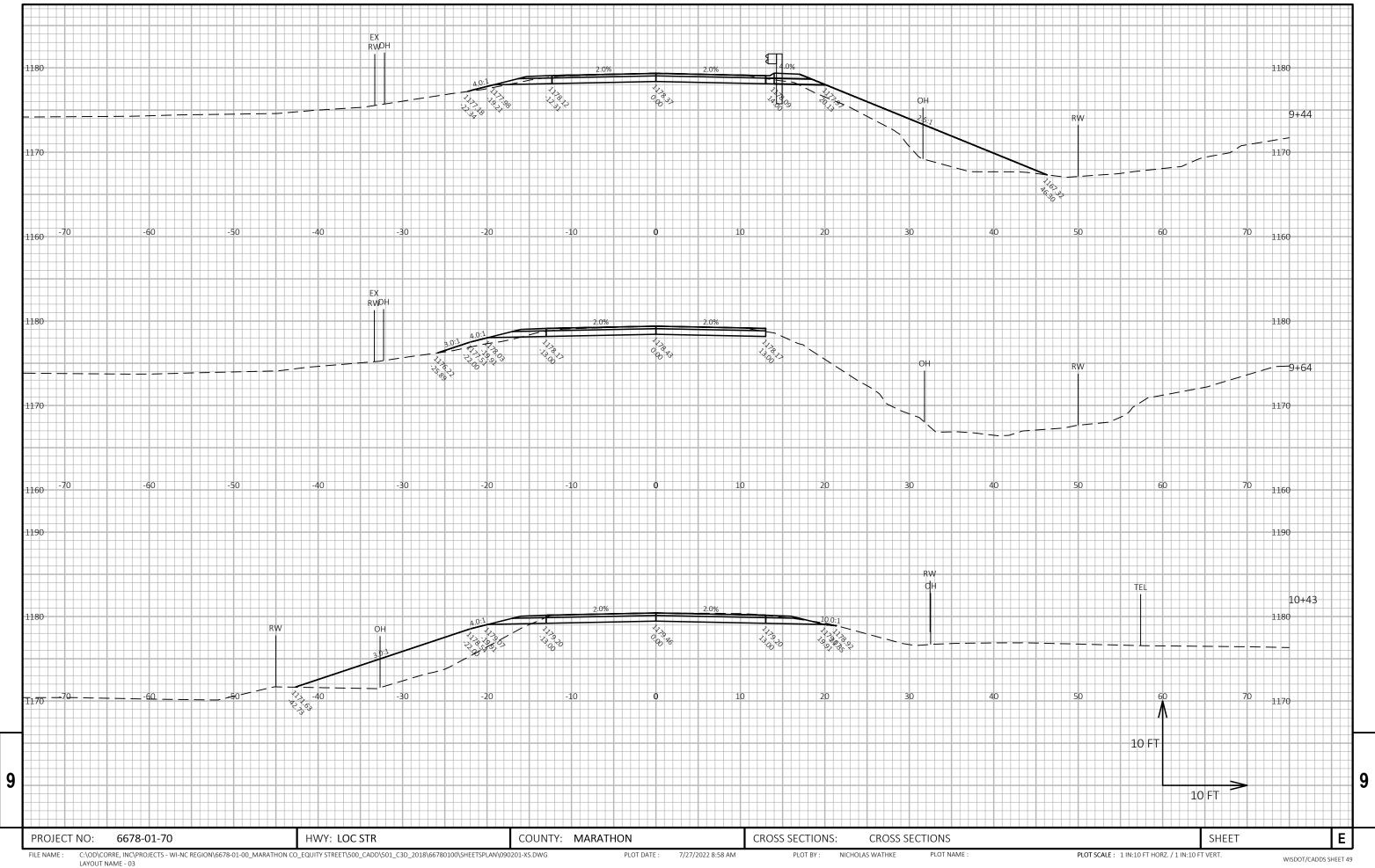
Notes:	
1 - MASS ORDINATE	CUT - (FILL * FILL FACTOR)

PROJECT NO:	6678-01-70	HWY: LOC STR	COUNTY: MARATHON	EARTHWORK QUANTITIES
			PLOT DATE : 5/31/2022	PLOT BY: CORRE, INC. PLOT NAME:

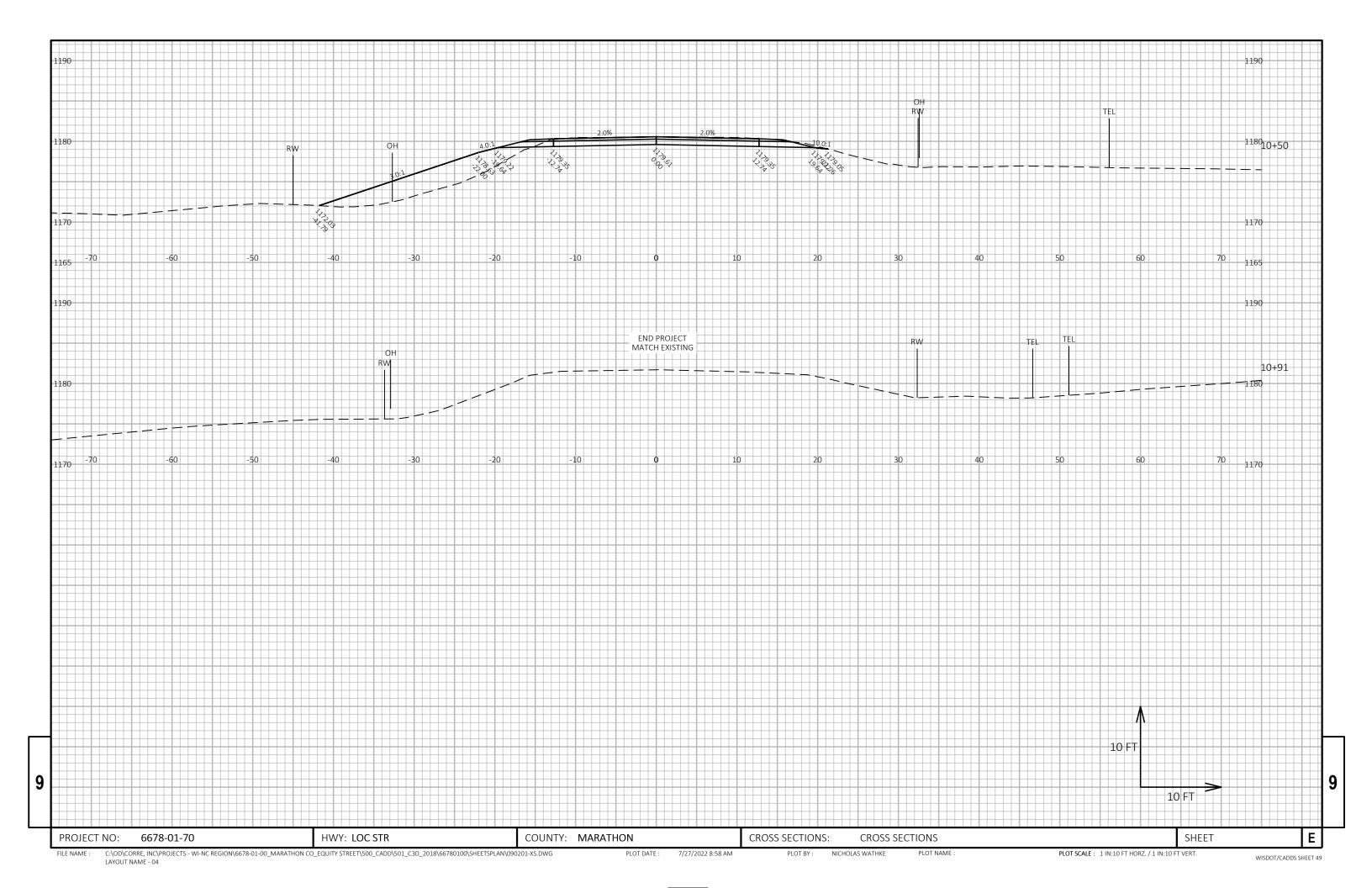


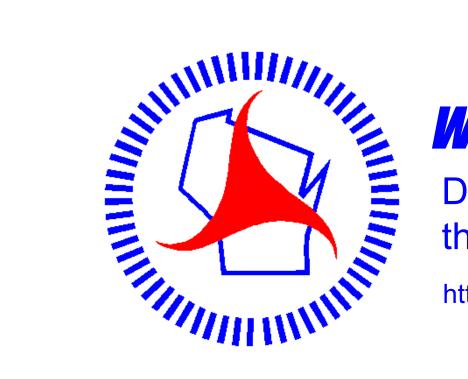






WISDOT/CADDS SHEET 49





Wisconsin Department of Transportation

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