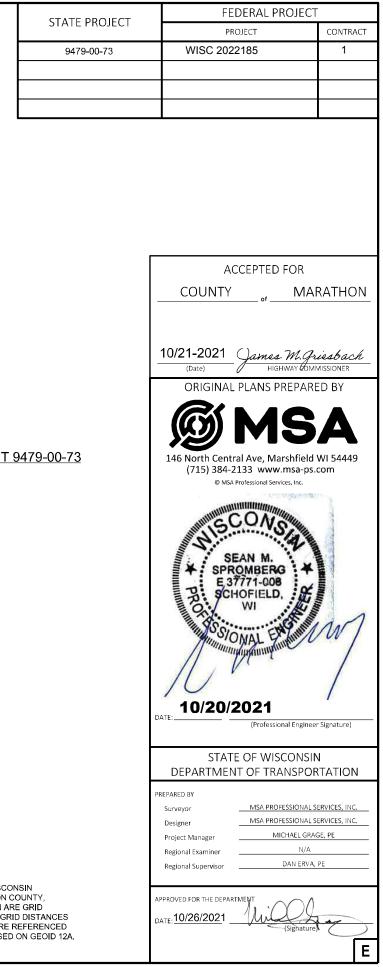
FEBRUARY 2022 ORDER OF SHEETS		STATE OF WISCONSIN	
Section No. 3 Estimate of Quantities	cludes Erosion Control)	DEPARTMENT OF TRANSPOR	TATION
Section No. 4 Right of Way Plat Section No. 5 Plan and Profile		PLAN OF PROPOSED IMPROVEMENT	
Section No.6Standard Detail DrawingsSection No.7Sign PlatesSection No.8Structure PlansSection No.9Computer Earthwork DataSection No.9Cross SectionsTOTAL SHEETS = 70		STH 107 - CTH O LITTLE RIB RIVER BRIDGE B-37-0459 CTH A MARATHON COUNTY	
DESIGN DESIGNATION	N BEGIN PROJECT 9479-00-73 STA 8+95.50 Y = 233,900.26 X = 239,309.69	STATE PROJECT NUMBER 9479-00-73	R-7-E 1 6 RAINEO RAINEO RAINEO END PROJECT S STA 11+00 Y = 233,896.22 X = 239,514.15 T-30-N
A.A.D.T. = 1,380 (2042) D.H.V. = 195 D.D. = 60/40 T. = 10% DESIGN SPEED = 25 MPH ESALS = 190,000		NI HLIE Chicago A	egesville 36 31
CONVENTIONAL SYMBOLS PLAN CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS MARSH AREA WOODED OR SHRUB AREA	PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION UTILITIES ELECTRIC FIBER OPTIC GAS SANITARY SEWER STORM SEWER STORM SEWER TELEPHONE UTILITY PEDESTAL POWER POLE TELEPHONE POLE	TH LN NORTH LN DR WOODLAND RD RIB 2 ST W 21ST ST E EVERGREEN RD	7
	ORDER OF SHEETS Section No. 1 Title Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantities Section No. 4 Right of May Plat Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings Section No. 7 Sign Plates Section No. 9 Computer Earthwork Data Section No. 9 Cross Sections TOTAL SHEETS = 70 DESIGN DESIGNATION A.A.D.T. = A.A.D.T. = 1,130 (2022) A.A.D.T. = 1,380 (2042) D.H.V. = 195 D.D. = 60/40 T. = 190,000 CONVENTIONAL SYMBOLS PLAN = 190,000 CONVENTIONAL SYMBOLS PLAN = 190,000 Section Reversive Reversiv	ORDER OF SHEETS Siddon Na. 1 Siddon Na. 2 Siddon Na. 3 Siddon Na. 3 Siddon Na. 3 Siddon Na. 3 Berlan Na. 3 Siddon Na. 3 Berlan Na. 3 Siddon	

FILE NAME : G:\01\01452\01452055\CADD\SHEETSPLAN\010101-TI.DWG

PLOT BY : COURTNEY ROOYAKKERS PLOT NAME :

FEBRUARY 2022



STANDARD ABBREVIATIONS

F/L FT GN HR HT

CWT

HYD

INL

ID

ΙE

IP

JCT

L LF

LC

LCB LS

MΗ

Ν

ОE

OL OD OH

PAVT

PLE

PC PI PT PCC

LB PE

RR

R

R OR RAD

~ OR R/L

REQD RT

R/W

RD

IN DIA

AC AGG < ASPH AC ADT B & B BM CB OR C/L C-C CONC CO CTH CY CULV CP CPRC CULV CP CPRC CULV CP CPRC C C & G D DHV DIA OR DIST DWY E X EB ELEC EL OR ELEV EMB EW ESALS	ACRE AGGREGATE ANGLE ASPHALTIC ASPHALT CEMENT AVERAGE DAILY TRAFFIC BALLED AND BURLAPPED BENCH MARK CATCH BASIN CENTER LINE CENTER TO CENTER COURTY COUNTY TRUNK HIGHWAY CUBIC YARD CULVERT CULVERT PIPE CULVERT PIPE CULVERT DEGREE OF CURVE DESIGN HOUR VOLUME DIAMETER DISTRICT DRIVEWAY EAST EAST GRID COORDINATE EASTBOUND ELECTRIC ELEVATION EMBANKMENT ENDWALL EQUIVALENT SINGLE
EXC EBS	AXLE LOADS EXCAVATION EXCAVATION BELOW
EXIST EXP F-F FERT FE	SUBGRADE EXISTING EXPANSION FACE TO FACE FERTILIZER FIELD ENTRANCE

FLOW LINE	
FOOT	
GRID NORTH	
HANDICAP RAN	/IP
HEIGHT	
HUNDREDWEIG	ЭНТ
HYDRANT	
INCH DIAMETE	R
INLET	
INSIDE DIAMET	
INTERSECTION	
INVERT ELEVAT	
IRON PIPE OR F	'IN
JUNCTION	
LENGTH OF CU	RVE
LINEAR FOOT	
LONG CHORD (
LONG CHORD E LUMP SUM	SEARING
MANHOLE	
NORTH	
NORTH GRID C	
OUTLET ELEVA	
OUT LOT	
OUTSIDE DIAM	FTFR
OVERHEAD LIN	
PAVEMENT	20
PERMANENT LI	MITED EASEMENT
POINT OF CUR	/ATURE
POINT OF INTE	RSECTION
POINT OF TANK	
	IENT CONCRETE
POUND	
PRIVATE ENTRA	ANCE
RADIUS	
RAILROAD RANGE	
REFERENCE LIN	IC
REQUIRED	L
RIGHT	
RIGHT-OF-WAY	,
ROAD	

SALVAGED SANITARY SEWER SECTION SHLDR SHOULDER SIDEWALK SOUTH SOUTHBOUND SPECIFICATIONS SPECS SQUARE SQ SF OR SQ FT SQUARE FEET SQUARE YARD SSPRC STORM SEWER PIPE REINFORCED CONCRETE STANDARD STANDARD DETAIL DRAWINGS STATE TRUNK HIGHWAYS STATION STORM SEWER TANGENT TELEPHONE TEMPORARY TEMPORARY LIMITED EASEMENT TON TOP OF CURB TOWN TRANS TRANSITION TRUCKS (percent of) TYPICAL UNCLASSIFIED UNITED STATES HIGHWAY VARIABLE VERTICAL VERTICAL CURVE VOLUME WATER MAIN WATER VALVE WEST WESTBOUND YARD

SALV

SAN

SECT

SW

SB

SY

STD

SDD STH

STA

SS

TEL

TLE

TC

ΤN

Т

TYP

UNCL

USH VAR

VERT

VC

VOL

WM

WV

W

WB

YD

TEMP

SECTION 2 ORDER

GENERAL NOTES TYPICAL SECTIONS CONSTRUCTION DETAILS **EROSION CONTROL**

OVERHEAD COMMUNICATIONS: FRONTIER COMMUNICATIONS OF WISCONSIN 315 OAK STREET OAKFIELD, WI 53065 ATTN: RUSS RYAN PHONE: (920) 583-3275 RUSSEL.W.RYAN@FTR.COM

UTILITIES

OVERHEAD ELECTRIC: WISCONSIN PUBLIC SERVICE CORP. P.O. BOX 1166 WAUSAU, WI 54402 ATTN: CLAYTON VIRKS PHONE: (715) 848-7317 CLAYTON.VIRKS@WISCONSINPUBLICSERVICE.COM

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP													
		ŀ	A		В			С			D				
	SLC	PE RANG	E (PERCENT)	SLOPE RANGE (PERCENT)			SLO	PE RANGI	(PERCENT)	SLOPE RANGE (PERCENT)					
LAND USE:	0 - 2	2 - 6 6 & OVER 0 - 2 2 - 6 6 & OVER		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						.7585									
ROOFS						.7595									
GRAVEL ROADS, SHO	DULDERS					.4060									



GENERAL NOTES

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

THE 4" ASPHALTIC SURFACE SHALL CONSIST OF A 2" UPPER LAYER WITH NO. 4 (12.5 MM) NOMINAL SIZE AGGREGATE AND A 2" LOWER LAYER WITH NO. 4 (12.5 MM) NOMINAL SIZE AGGREGATE.

RIGHT OF WAY LOCATIONS ARE APPROXIMATE.

TOTAL PROJECT AREA = 1.42 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 1.36 ACRES

PROJECT NO:	9479-00-73	HWY: CTH A	COUNTY:	MARATHON		GENERAL NOTE	S		
	1452\01452055\CADD\SHEETSPLAN\020101-GN.DWG			PLOT DATE :	8/19/2021 6:39 AM	PLOT BY :	SHAWN DOLENS	PLOT NAME :	

LAYOUT NAME - 020101-gn

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. 146 NORTH CENTRAL AVE MARSHFIELD, WI 54449 ATTN: SEAN SPROMBERG, PE PHONE: (715) 304-0451 SSPROMBERG@MSA-PS.COM

COUNTY CONTACT

MARATHON COUNTY HIGHWAY DEPARTMENT 1430 WEST STREET WAUSA, WI 54401 ATTN: JAMES GRIESBACH, COMMISSIONER PHONE: (715) 261-1800 JAMES.GRIESBACH@CO.MARATHON.WI.US

DNR CONTACT

WISCONSIN DEPARTMENT OF NATURAL RESOURCES 473 GRIFFITH DRIVE WISCONSIN RAPIDS, WI 54494 ATTN: CASEY JONES PHONE: (715) 213-6571 CASEY.JONES@WISCONSIN.GOV

WISDOT CONTACT

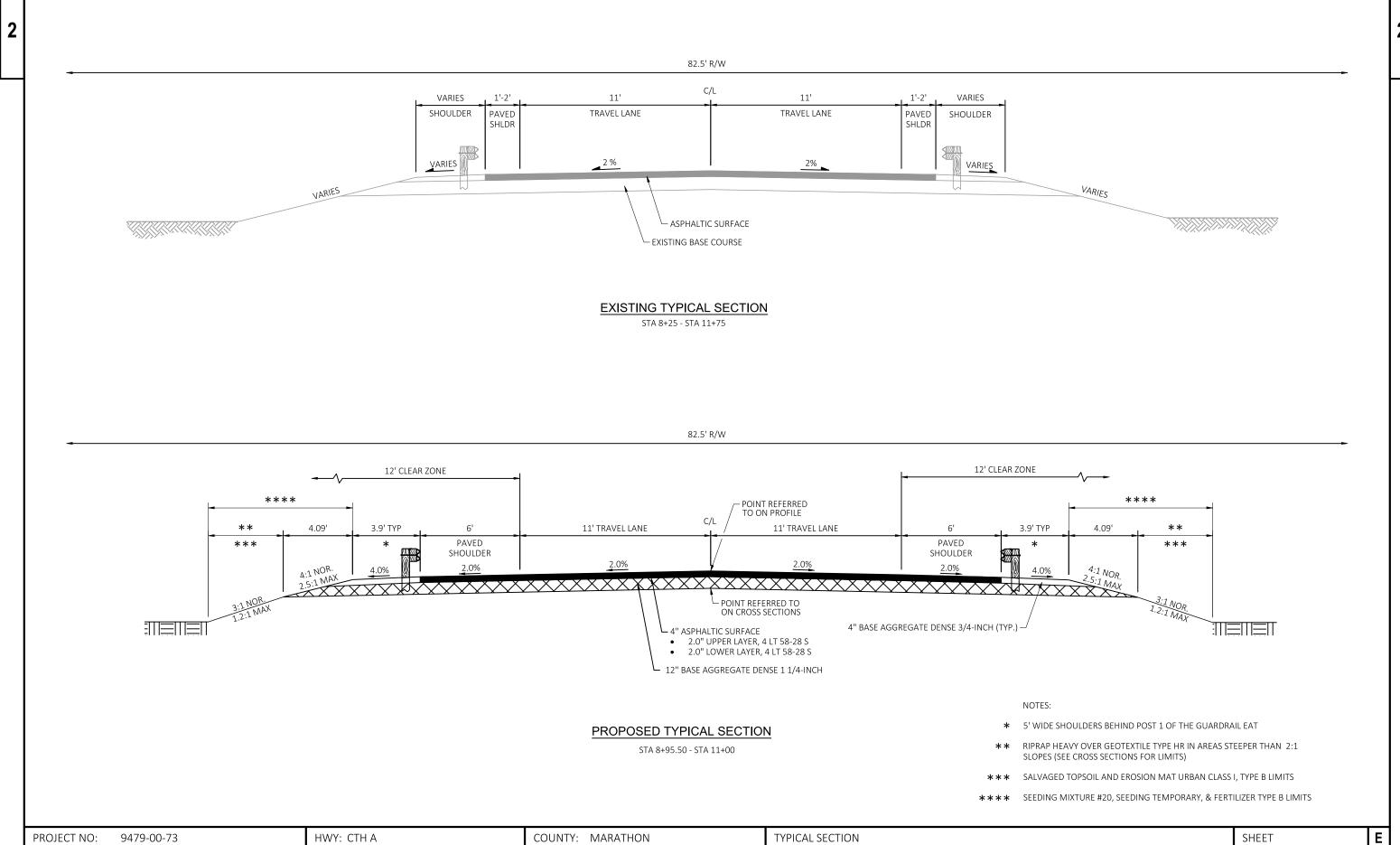
WISCONSIN DEPARTMENT OF TRANSPORTATION 510 N. HANSON LAKE ROAD RHINELANDER, WI 54501 ATTN: MICHAEL GRAGE PHONE: (715) 365-5705 MICHAEL.GRAGE@DOT.WI.GOV

* - NOT A MEMBER OF DIGGERS HOTLINE



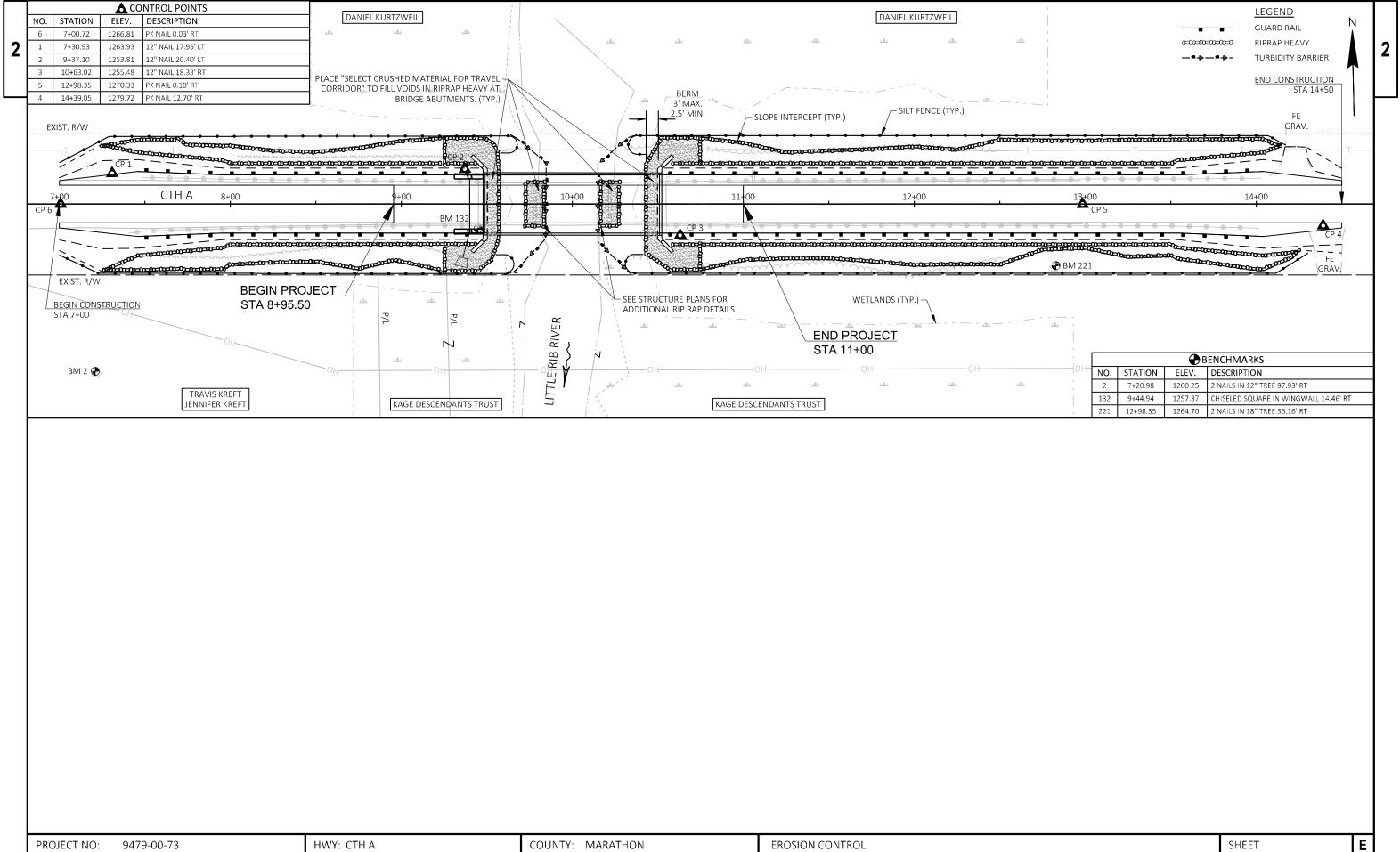
SHEET

Ε



FILE NAME : G:\01\01452\01452055\CADD\SHEETSPLAN\020301-TS.DWG LAYOUT NAME - 020301-ts PLOT DATE : 12/9/2021 9:14 AM PLOT BY : COURTNEY ROOYAKKERS PLOT NAME :



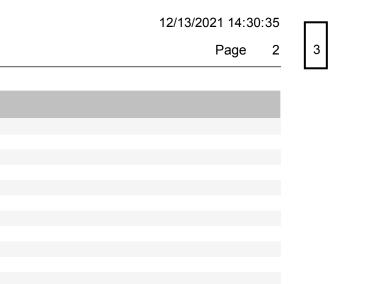


Estimate Of Quantities

9479-00-73
Line Item Item Description Unit Total Qty
0002 201.0105 Clearing STA 7.000 7.000
D004 201.0205 Grubbing STA 7.000 7.000
0006203.0211.SAbatement of Asbestos Containing Material (structure) 01. B-37-27EACH1.0001.000
0008 203.0260 Removing Structure Over Waterway Minimal Debris (structure) 01. B-37-27 EACH 1.000 1.000
0010 204.0165 Removing Guardrail LF 1,155.000 1,155.000
0012 205.0100 Excavation Common CY 385.000 385.000
0014 206.1000 Excavation for Structures Bridges (structure) 01. B-37-459 LS 1.000 1.000
0016 208.0100 Borrow CY 985.000 985.000
0018 210.1500 Backfill Structure Type A TON 616.000 616.000
0020 213.0100 Finishing Roadway (project) 01. 9479-00-73 EACH 1.000 1.000
0022 305.0110 Base Aggregate Dense 3/4-Inch TON 180.000 180.000
0024 305.0120 Base Aggregate Dense 1 1/4-Inch TON 1,345.000 1,345.000
0026 455.0605 Tack Coat GAL 79.000 79.000
0028 465.0105 Asphaltic Surface TON 260.000 260.000
0030 502.0100 Concrete Masonry Bridges CY 258.000 258.000
0032 502.3200 Protective Surface Treatment SY 441.000 441.000
0034 502.3210 Pigmented Surface Sealer SY 104.000 104.000
0036 503.0155 Prestressed Girder Type I 54W-Inch LF 412.000 412.000
0038 505.0400 Bar Steel Reinforcement HS Structures LB 5,210.000 5,210.000
0040 505.0600 Bar Steel Reinforcement HS Coated Structures LB 32,730.000 32,730.000
0042506.2605Bearing Pads Elastomeric Non-LaminatedEACH8.0008.000
0044 506.4000 Steel Diaphragms (structure) 01. B-37-459 EACH 6.000 6.000
0046 516.0500 Rubberized Membrane Waterproofing SY 24.000 24.000
0048 520.1012 Apron Endwalls for Culvert Pipe 12-Inch EACH 1.000 1.000
0050 550.1100 Piling Steel HP 10-Inch X 42 Lb LF 855.000 855.000
0052 601.0588 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT LF 34.000 34.000
0054 606.0300 Riprap Heavy CY 1,210.000 1,210.000
0056 608.3612 Storm Sewer Pipe Class III-B 12-Inch LF 48.000 48.000
0058 611.0654 Inlet Covers Type V EACH 2.000 2.000
0060 611.3220 Inlets 2x2-FT EACH 2.000 2.000
0062 612.0406 Pipe Underdrain Wrapped 6-Inch LF 190.000 190.000
0064 614.0150 Anchor Assemblies for Steel Plate Beam Guard EACH 4.000 4.000
0066 614.2300 MGS Guardrail 3 LF 750.000 0066 014.0300 MGS Guardrail 3 150.000 150.000
0068 614.2500 MGS Thrie Beam Transition LF 157.600 157.600 0072 014.0010 MOS On Heil Transition EAOU 1.000 1.000
0070 614.2610 MGS Guardrail Terminal EAT EACH 4.000 4.000 0070 614.2610 MGS Guardrail Terminal EAT EACH 4.000 4.000
0072 618.0100 Maintenance And Repair of Haul Roads (project) 01. 9479-00-73 EACH 1.000 1.000 0074 040.4000 Maintenance And Repair of Haul Roads (project) 01. 9479-00-73 EACH 1.000 1.000
0074 619.1000 Mobilization EACH 1.000 1.000 0076 004.0400 Water 04.000
0076 624.0100 Water MGAL 24.000 24.000 0078 635.0500 Selvered Tensel SV 640.000 640.000
0078 625.0500 Salvaged Topsoil SY 610.000 610.000 0080 629.4504 Site Farmer 4.350.000 4.350.000 4.350.000
0080 628.1504 Silt Fence LF 1,350.000 1,350.000 0082 638.1530 Silt Fence 1.350.000 1.350.000 1.350.000
0082 628.1520 Silt Fence Maintenance LF 1,350.000 1,350.000 0084 628.1905 Mobilizations Erosion Control EACH 4.000 4.000
0086 628.1910 Mobilizations Emergency Erosion Control EACH 2.000 2.000 0088 638.2008 Erosion Met Likhon Closed Tyme P SV 610.000 610.000
0088 628.2008 Erosion Mat Urban Class I Type B SY 610.000 610.000 0000 628.6005 Turbidity Parriero SY 315.000 315.000
0090 628.6005 Turbidity Barriers SY 315.000 315.000 0092 638.7570 Book Boos EACH 102.000 102.000
0092 628.7570 Rock Bags EACH 192.000 192.000 0004 630.0310 Entilizer Type P 0.800 0.800 0.800
0094 629.0210 Fertilizer Type B CWT 0.800 0.800 0096 630.0120 Sending Mixture No. 20 1 24.000 24.000 24.000
0096 630.0120 Seeding Mixture No. 20 LB 24.000 24.000 0098 630.0200 Seeding Temporary LB 24.000 24.000
0098 630.0200 Seeding Temporary LB 24.000 24.000



		Estimate Of Quantities											
					9479-00-73								
Line	Item	Item Description	Unit	Total	Qty								
0100	630.0500	Seed Water	MGAL	8.000	8.000								
0102	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000								
0104	637.2230	Signs Type II Reflective F	SF	12.000	12.000								
0106	638.2602	Removing Signs Type II	EACH	4.000	4.000								
0108	638.3000	Removing Small Sign Supports	EACH	4.000	4.000								
0110	642.5001	Field Office Type B	EACH	1.000	1.000								
0112	643.0420	Traffic Control Barricades Type III	DAY	1,710.000	1,710.000								
0114	643.0705	Traffic Control Warning Lights Type A	DAY	2,660.000	2,660.000								
0116	643.0900	Traffic Control Signs	DAY	1,330.000	1,330.000								
0118	643.5000	Traffic Control	EACH	1.000	1.000								
0120	645.0111	Geotextile Type DF Schedule A	SY	78.000	78.000								
0122	645.0120	Geotextile Type HR	SY	2,435.000	2,435.000								
0124	646.1020	Marking Line Epoxy 4-Inch	LF	1,160.000	1,160.000								
0126	650.4000	Construction Staking Storm Sewer	EACH	3.000	3.000								
0128	650.4500	Construction Staking Subgrade	LF	648.000	648.000								
0130	650.5000	Construction Staking Base	LF	648.000	648.000								
0132	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	34.000	34.000								
0134	650.6500	Construction Staking Structure Layout (structure) 01. B-37-27	LS	1.000	1.000								
0136	650.9910	Construction Staking Supplemental Control (project) 01. 9497-00-73	LS	1.000	1.000								
0138	650.9920	Construction Staking Slope Stakes	LF	648.000	648.000								
0140	690.0150	Sawing Asphalt	LF	1,150.000	1,150.000								
0142	715.0502	Incentive Strength Concrete Structures	DOL	1,548.000	1,548.000								
0144	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000								
0146	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000								
0148	SPV.0195	Special 01. Select Crushed Material for Travel Corridor	TON	571.000	571.000								



			205.0100				208.0100
			EXCAVATION			(2)MASS	
			COMMON	UNEXPANDED FILL	(1)EXPANDED FILL	ORDINATE (+/-)	BORROW
STATION	TO	STATION	CY	CY	CY	CY	CY
7+00	-	9+49	150	492	615	-465	465
10+51	-	14+50	235	602	753	-520	520
	-			_			
		TOTAL 0010	385	-			985

(1) EXPANDEDN FILL FACTOR = 1.25	

(2) THE MASS ORDINATE + OR - QUANTITY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
 7+00	-	9+70	LT & RT	3	3
10+25	-	14+00	LT & RT	4	4
			TOTAL 0010	7	7

305.0110

305.0120

				BASE AGGREGATE DENSE 3/4-INCH	BASE AGGREGATE DENSE 1 1/4-INCH	WATER
STATION	ТО	STATION	LOCATION	TON	TON	MGAL
7+00	-	9+49	LT & RT	70	550	9
10+51	-	14+50	LT & RT	90	755	13
		FE 14+21	LT	10	20	1
		FE 14+40	RT	10	20	1
			TOTAL 0010	180	1,345	24

624.0100

				606.0300	645.0120	SPV.0195.01 SPECIAL (01. SELECT CRUSHED					520.1012	608.3612	601.0588 CONCRETE CURB	611.0654	611.3220	650.4000	650.5500 CONSTRUCTION
						MATERIAL FOR					APRON ENDWALLS	STORM SEWER	& GUTTER 4-INCH	INLET		CONSTRUCTION	STAKING CURB
					GEOTEXTILE TYPE	TRAVEL					FOR CULVERT PIPE	PIPE CLASS III-B 12-	SLOPED 36-INCH	COVERS	INLETS	STAKING STORM	BUTTER AND CURB
				RIPRAP HEAVY	HR	CORRIDOR)					12-INCH	INCH	TYPE TBT	TYPE V	2X2-FT	SEWER	& GUTTER
STATION	ТО	STATION	LOCATION	CY	SY	TON	STATION	ТО	STATION	LOCATION	EACH	LF	LF	EACH	EACH	EACH	LF
7+00	-	9+25	LT	165	340	74	9+31	-	9+48	LT & RT			34				34
7+00	-	9+25	RT	195	385	104	9+36	-	9+40	RT	1	16				1	
10+75	-	14+50	LT	335	655	150			9+40	LT & RT		32		2	2	2	
10+75	-	14+50	RT	270	565	127											
										TOTAL 0010	1	48	34	2	2	3	34
			TOTAL 0010	965	1,945	455											

PROJECT NO: 9479-00-73	HWY: CTH A	COUNTY: MARATHON	MISCELLANEOUS QUANTITIES	
FILE NAME : G:\01\01452\01452055\CADD\SHEETSOTHER\030201_MQ.DWG		PLOT DATE :	PLOT BY :	PLOT NAME :

LAYOUT NAME - 030201-mq

5	465.0105	
	ASPHALTIC	
AT	SURFACE	
	TON	
	110	
	150	
	260	

3

SHEET

E

628.1504	628
020.1304	020

												628.1504	628.1520	628.1905	628.1910 MOBILIZATIONS	628.6005
				204.0165 REMOVING GUARDRAIL	614.2300 MGS GUARDRAIL 3	*614.2500 MGS THRIE BEAM TRANSITION	614.2610 MGS GUARDRAIL TERMINAL EAT					SILT FENCE	SILT FENCE MAINTENANCE	MOBILIZATIONS EROSION CONTROL	EMERGENCY EROSION CONTROL	TURBIDITY BARRIERS
STATION	TO	STATION	LOCATION	LF	LF	LF	EACH	STATION	TO	STATION	LOCATION	LF	LF	EACH	EACH	SY
7+46	-	9+49	LT	210	112.5	39.4	1				PROJECT 9479-00-73			4	2	
7+46	-	9+49	RT	215	112.5	39.4	1	7+00	-	9+55	LT & RT	550	550			
10+51	-	14+04	LT	365	262.5	39.4	1	9+64	-	9+55	LT & RT					160
10+51	-	14+04	RT	365	262.5	39.4	1	10+15	-	10+38	LT & RT					155
								10+48	-	14+30	LT & RT	800	800			
			TOTAL 0010	1,155	750.0	157.6	4		-		TOTAL 0010	1,350	1,350	4	2	315

*HAND DIG POSTS NEAR STORM SEWER PIPE & INLETS BETWEEN TRANSITION POST TO AVOID CONFLICTS

				625.0500	628.2008 EROSION MAT	628.7570	629.0210	630.0120 SEEDING	630.0200	630.0500	
				SALVAGED	URBAN CLASS I		FERTILIZER	MIXTURE	SEEDING		
				TOPSOIL	TYPE B	ROCK BAGS	TYPE B	NO. 20	TEMPORARY	SEED WATER	
STATION	TO	STATION	LOCATION	SY	SY	EACH	CWT	LB	LB	MGAL	REMARKS
7+00	-	9+45	LT	135	135	48	0.2	6	6	2	SILT FENCE RELIEF APPROX. 9+00, ADJUST
7+00	-	9+45	RT'	170	170	48	0.2	6	6	2	SILT FENCE RELIEF APPROX. 9+00, ADJUST
10+54	-	14+50	LT	135	135	48	0.2	6	6	2	SILT FENCE RELIEF APPROX. 11+00, ADJUST
10+54	-	14+50	RT'	170	170	48	0.2	6	6	2	SILT FENCE RELIEF APPROX. 11+00, ADJUST
			TOTAL 0010	610	610	192	0.8	24	24	8	

			643.0420		643.0705		643.0900						
		TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC		01010000						
		CONTROL	CONTROL	CONTROL	CONTROL	TRAFFIC	TRAFFIC			634.0612	637.2230	638.2602	638.3000
		BARRICADES	BARRICADES	WARNING	WARNING	CONTROL	CONTROL			POSTS WOOD 4X6-	SIGNS TYPE II	REMOVING SIGNS	REMOVING SMALL
		TYPE III	TYPE III	LIGHTS TYPE A	LIGHTS TYPE A	SIGNS	SIGNS			INCH X 12-FT	REFLECTIVE F	TYPE II	SIGN SUPPORTS
LOCATION	DAYS	EACH	DAY	EACH	DAY	EACH	DAY	STATION	LOCATION	EACH	SF	EACH	EACH
UNCTION WITH STH 107	95	2	190	4	380	5	475	9+40	RT	1	3	1	1
CONSTRUCTION LIMITS	95	7	665	10	950	2	190	9+41	LT	1	3	1	1
CONSTRUCTION LIMITS	95	7	665	10	950	2	190	10+57	LT	1	3	1	1
JUNCTION WITH CTH O	95	2	190	4	380	5	475	10+57	RT	1	3	1	1
	ΤO	TAL 0010	1,710	_	2,660		1,330		TOTAL 0010	4	12	1	

PROJECT NO: 9479-00-73	HWY: CTH A	COUNTY: MARATHON		MISCELLANEOUS	s quantities	
FILE NAME : G:\01\01452\01452055\CADD\SHEETSOTHER\030201_MQ.DWG		PLOT DATE :	4/2/2020 6:53 AM	PLOT BY :	DAVE KATZNER	PLOT NAME :

3

LAYOUT NAME - 030201-mq

3

JST IN FIELD BASED ON FLOWS JST IN FIELD BASED ON FLOWS UST IN FIELD BASED ON FLOWS UST IN FIELD BASED ON FLOWS

SHEET

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				646.1020 MARKING LINE EPOXY 4-INCH							6 SAW
STATION	TO	STATION	LOCATION	LF	REMARKS		STATION	TO	STATION	LOCATION	
7+00 8+95	-	14+50 11+00	EDGELINES CENTERLINE	750 410	WHITE DOUBLE YELLOW		7+00 10+51	-	8+95 14+50	LT & RT LT & RT	
			TOTAL 0010	1,160						TOTAL 0010	

				650.4500	650.5000	650.9920	650.6500.01	650.9910.01 CONSTRUCTION
				CONSTRUCTION STAKING SUBGRADE	CONSTRUCTION STAKING BASE	CONSTRUCTION STAKING SLOPE STAKES	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE B- 37-0459)	STAKING SUPPLEMENTAL CONTROL (PROJECT 9479-00-73)
	то		LOCATION				,	,
STATION	ТO	STATION	LOCATION	LF	LF	LF	LS	LS
			PROJECT 9479-00-73				1	1
7+00	-	9+49	LT & RT	249	249	249		
10+51	-	14+50	LT & RT	399	399	399		
			TOTAL 0010	648	648	648	1	1

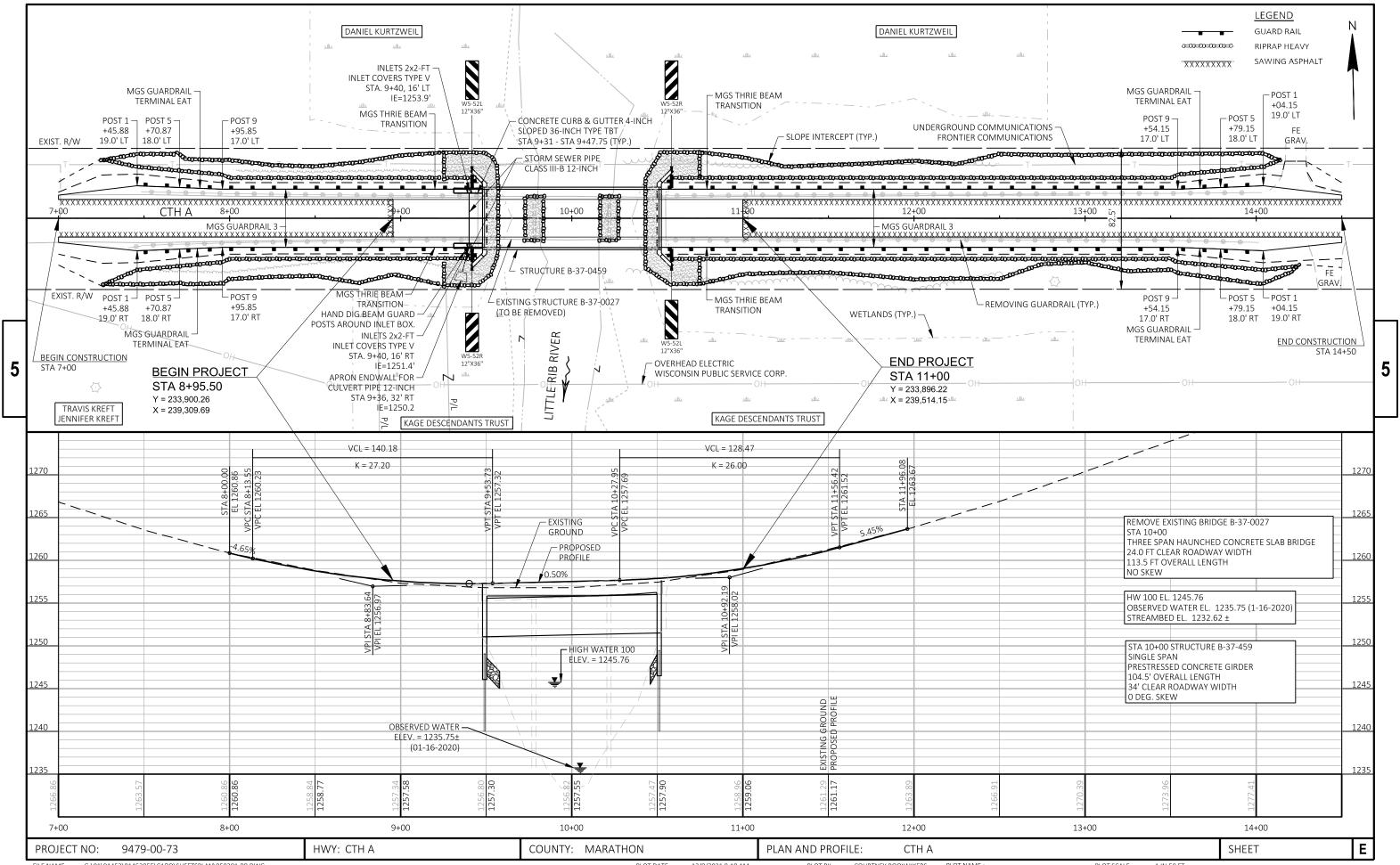
PROJECT NO: 9479-00-73	HWY: CTH A	COUNTY: MARATHON	MISCELLANEOUS QUANTITIES	
FILE NAME : G:\01\01452\01452055\CADD\SHEETSOTHER\030201_MQ.DWG LAYOUT NAME - 030201-mq		PLOT DATE :	PLOT BY : PL	LOT NAME :

690.0150 AWING ASPHALT LF

> 420 730

1,150

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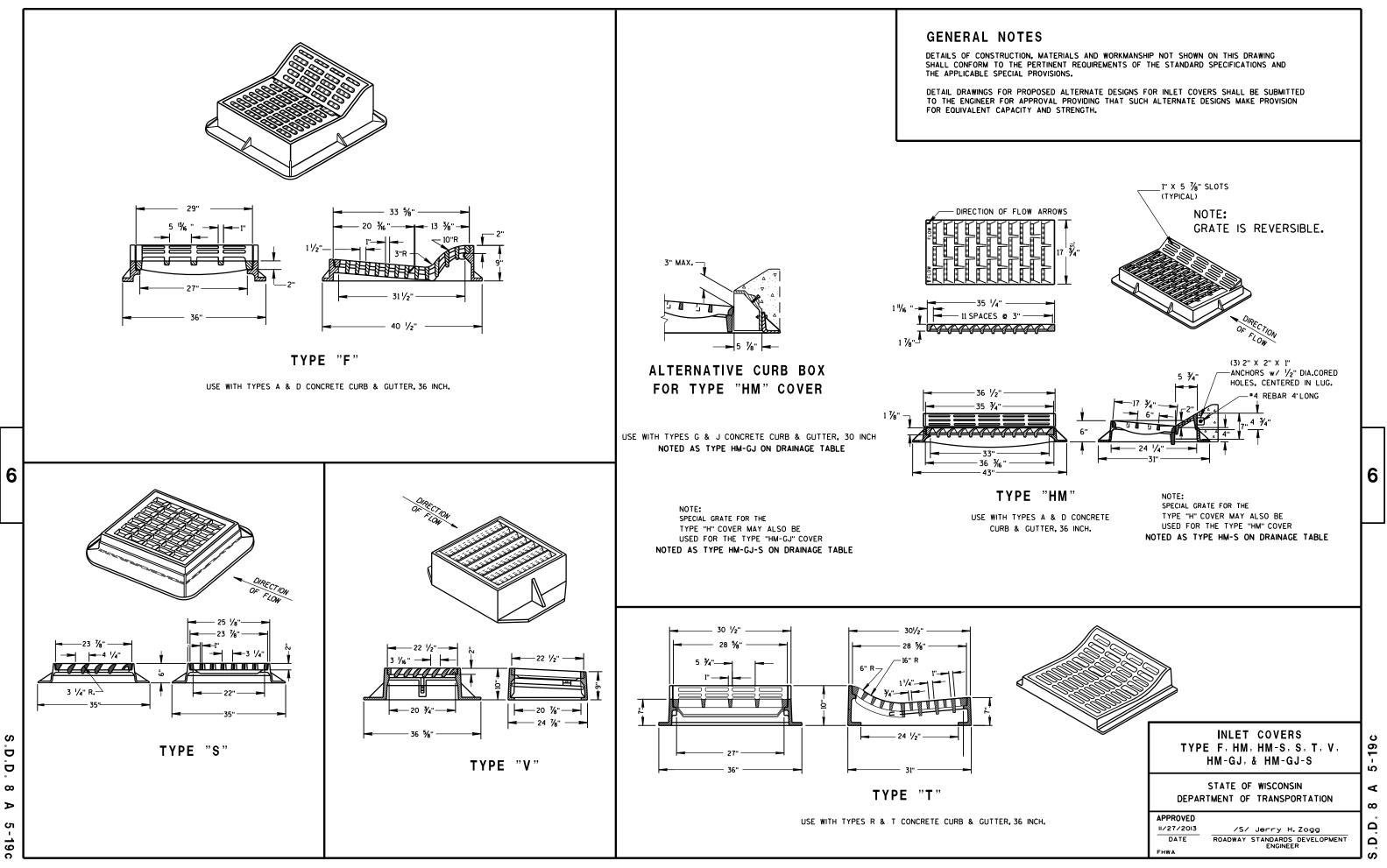


FILE NAME : G:\01\01452\01452055\CADD\SHEETSPLAN\050201-PP.DWG LAYOUT NAME - 050201-pp PLOT DATE : 12/9/2021 9:10 AM PLOT BY :

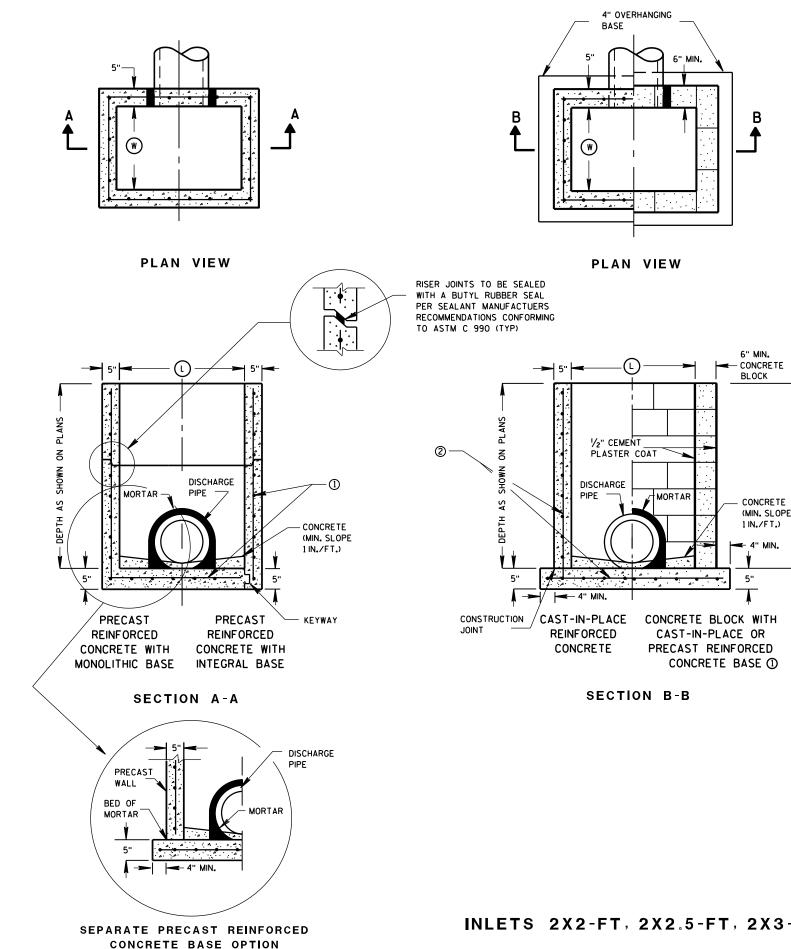
PLOT BY : COURTNEY ROOYAKKERS PLOT NAME :

Standard Detail Drawing List

08A05-19C 08C07-02 08D01-22A	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT CONCRETE CURB & GUTTER
08D01-22A 08D01-22B	CONCRETE CURB & GUTTER CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
12A03-10	NAME PLATE (STRUCTURES)
13c19-03	HMA LONGITUDINAL JOINTS
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)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
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)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15С02-08В	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15с11-09в	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



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GENERAL NOTES

ENGINEER.

EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

(1) FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	AL
	WIDTH (W)(FT)	LENGTH () (FT)		
2X2-FT	2	2	x	
2X2.5-FT	2	2.5		
2X3-FT	2	3		
2.5X3-FT	2.5	3		

PIPE MATRIX

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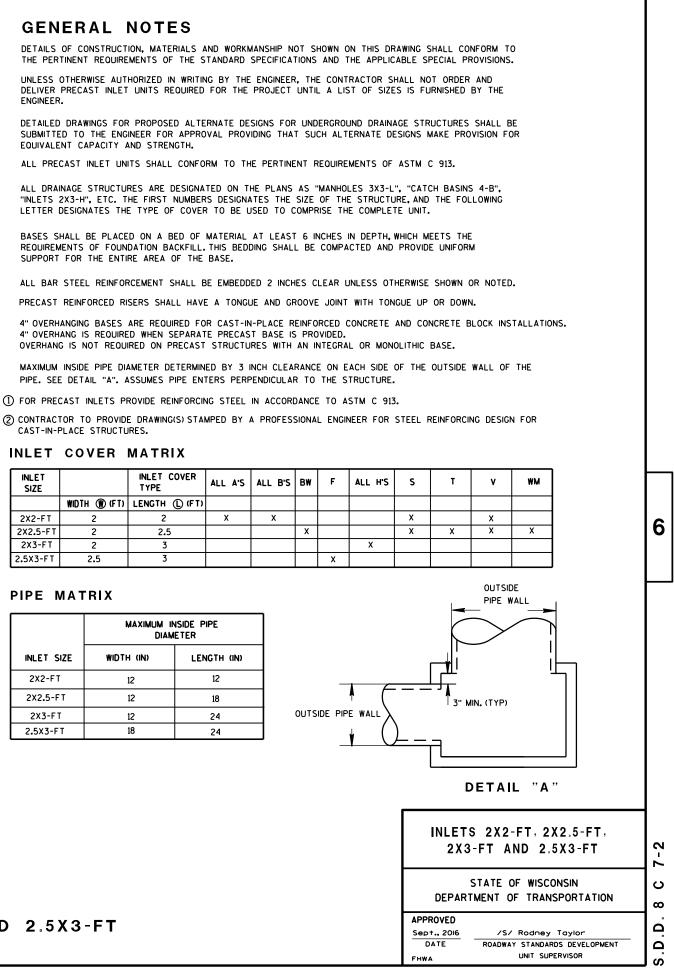
	MAXIMUM INSIDE PIPE DIAMETER		
INLET SIZE	WIDTH (IN)	LENGTH (IN)	
2X2-FT	12	12	
2X2.5-FT	12	18	
2X3-FT	12	24	
2.5X3-FT	18	24	

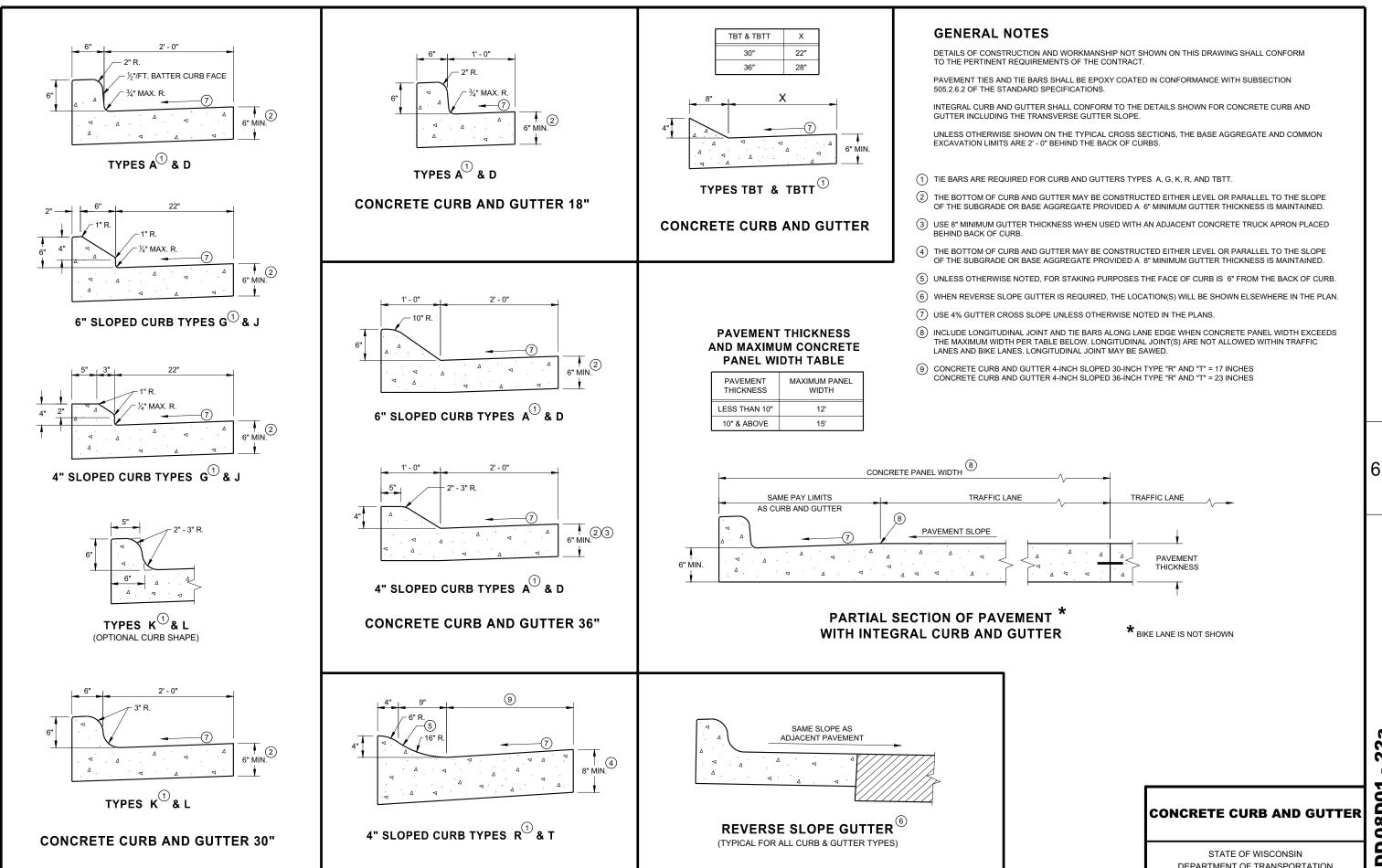
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

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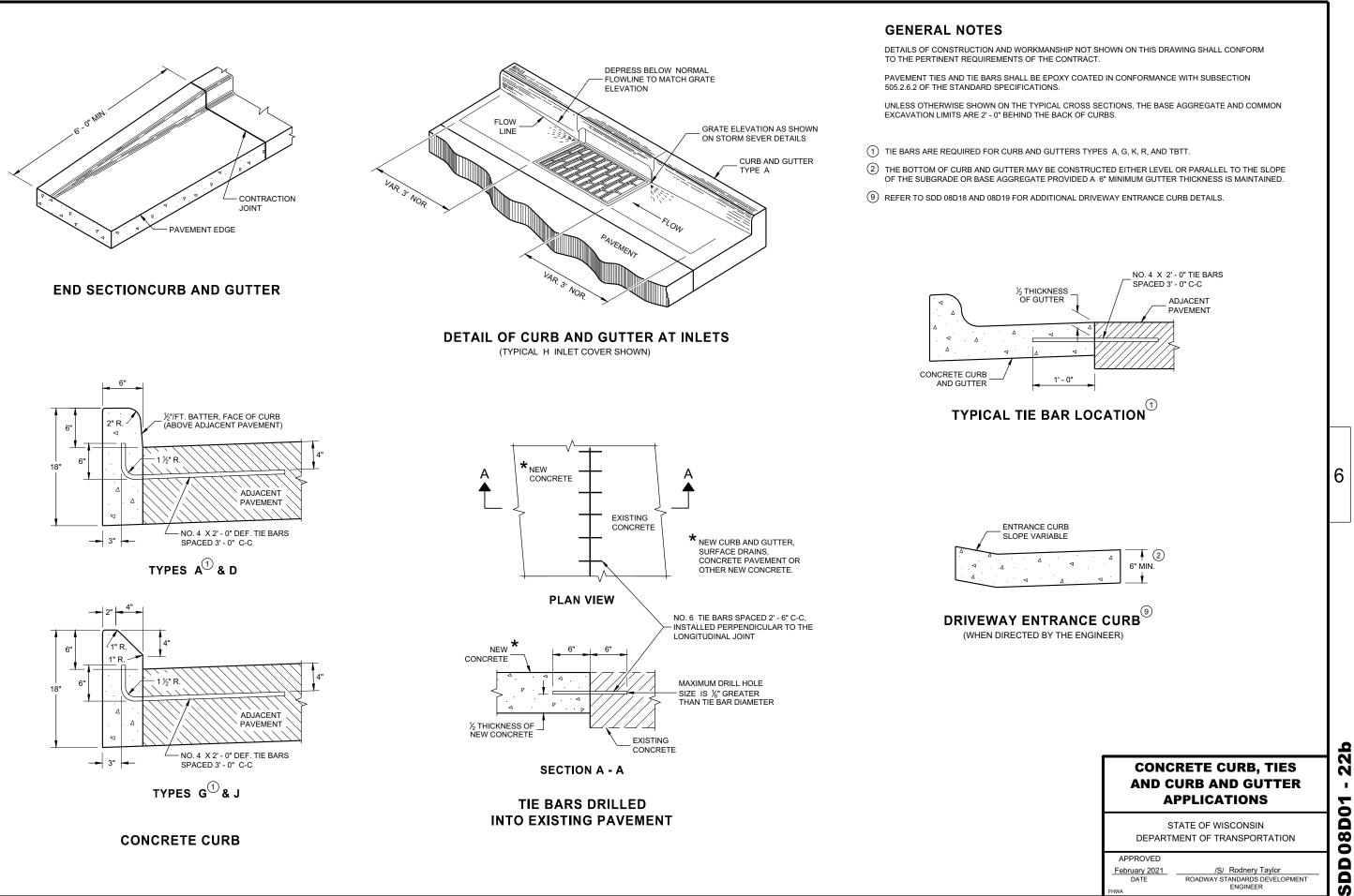


SDD 08D01 22a

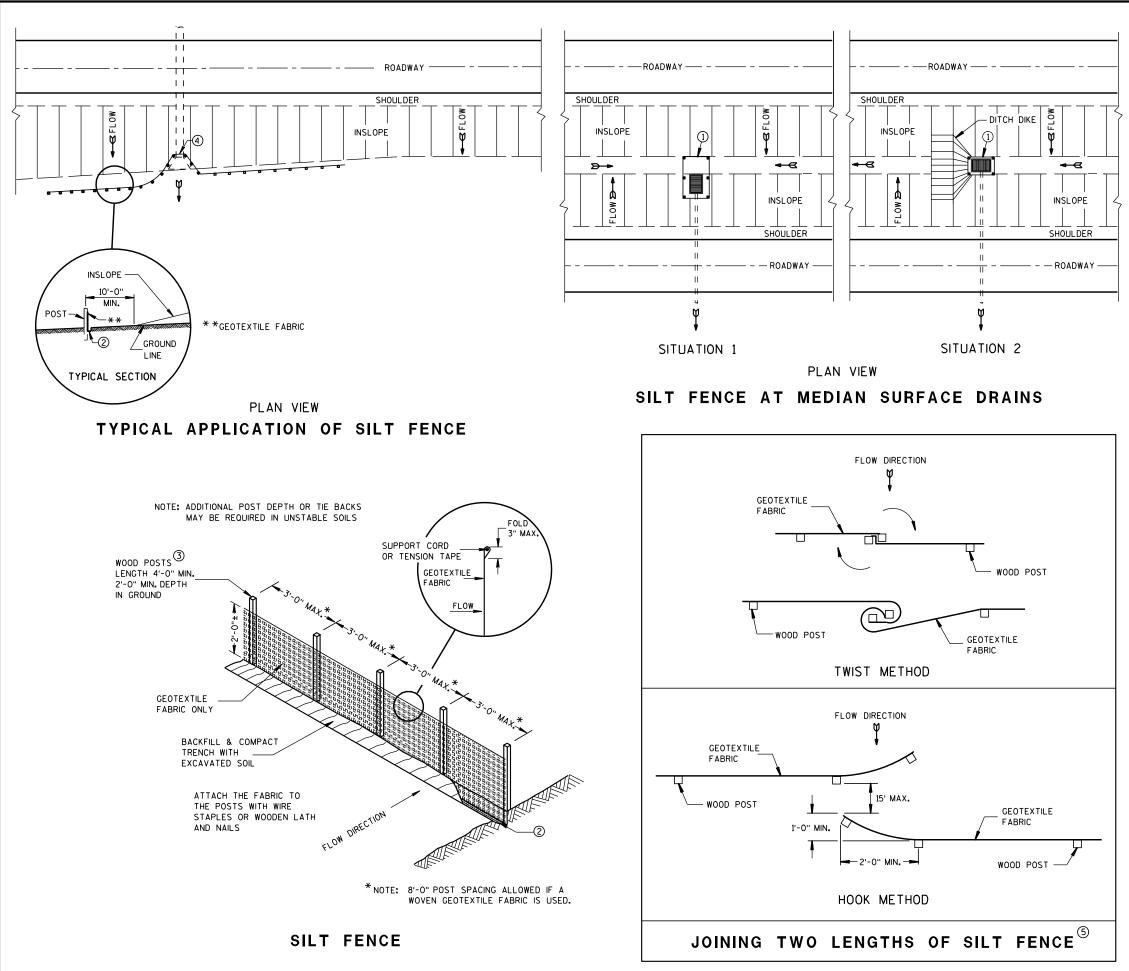
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DEPARTMENT OF TRANSPORTATION

22 . **08D01** SDD



SDD 08D01 22b



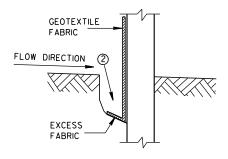
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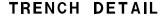
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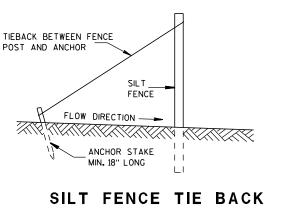
GENERAL NOTES

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

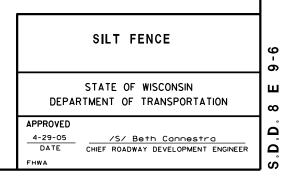
- $\textcircled{\sc 1}$ horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED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

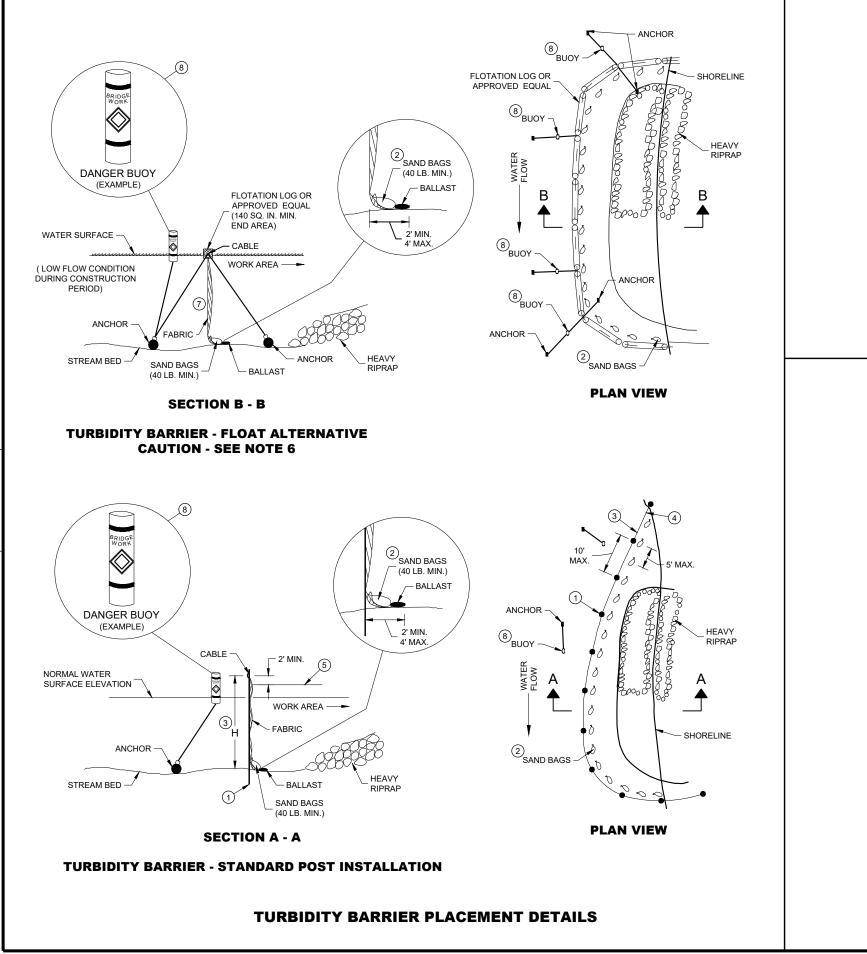




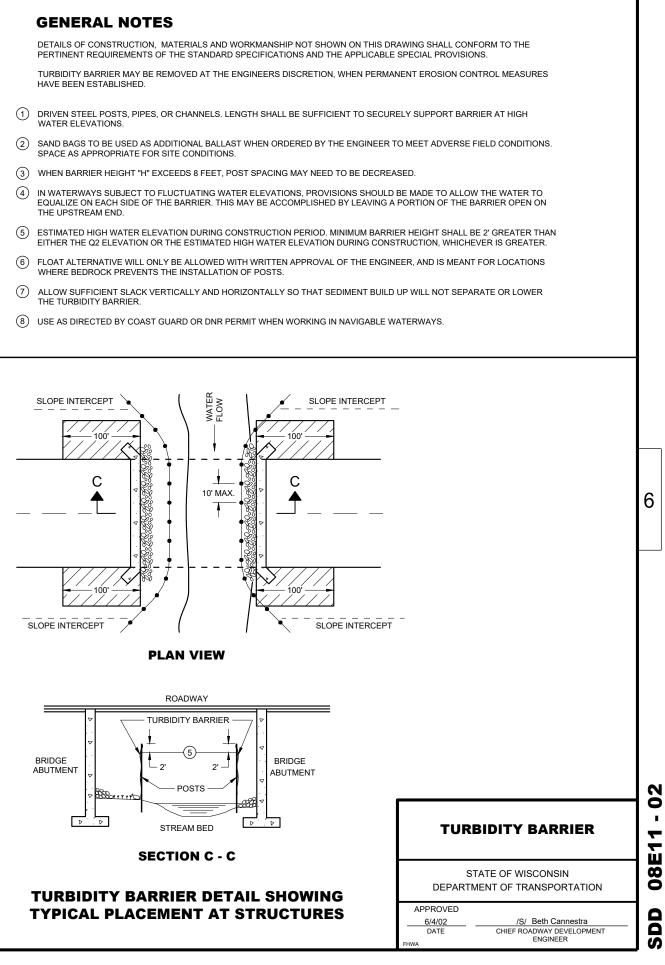


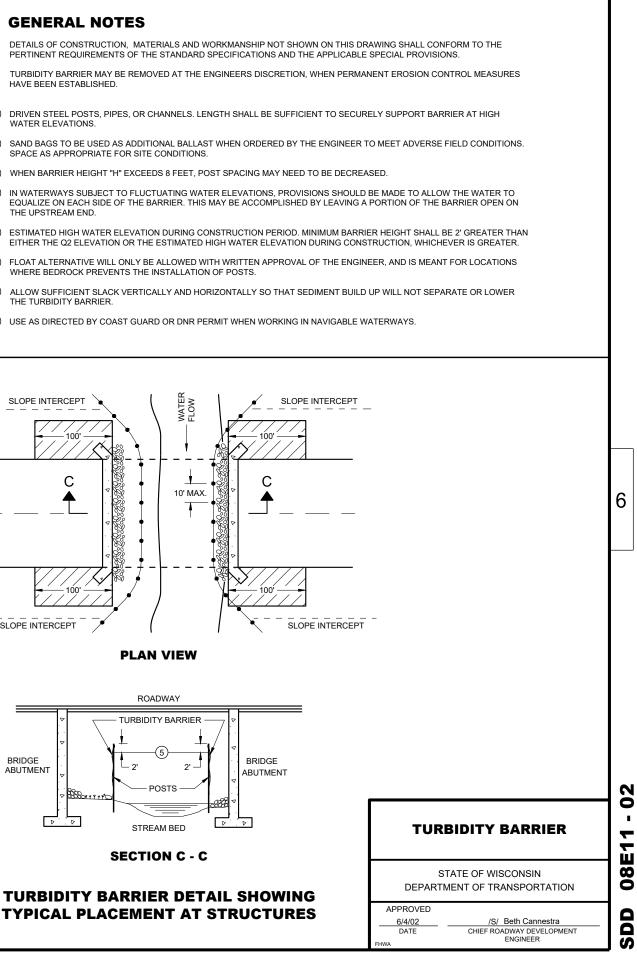
(WHEN REQUIRED BY THE ENGINEER)



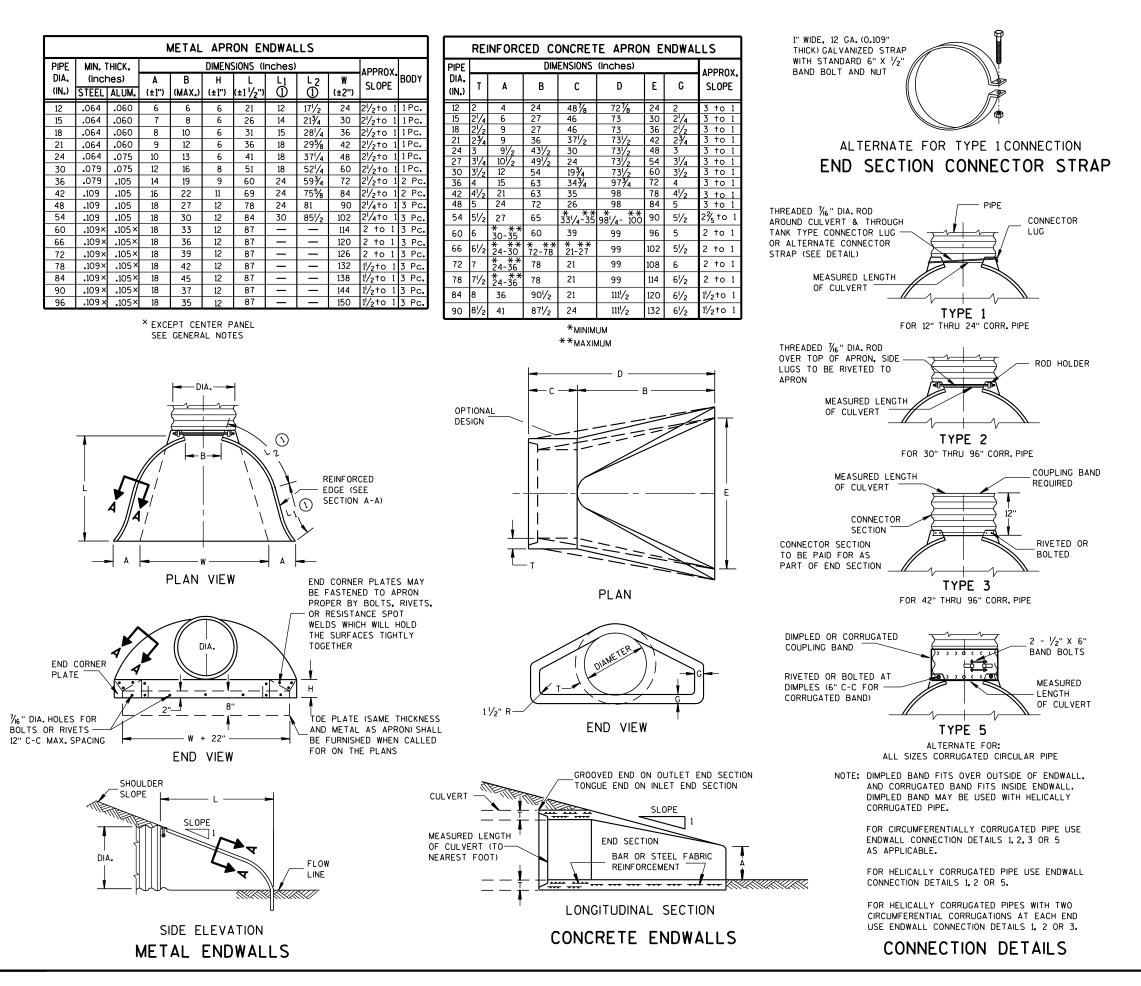


- WATER ELEVATIONS.



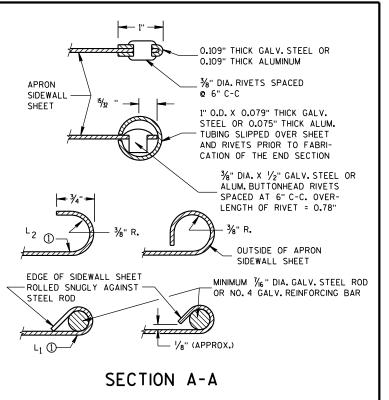


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GENERAL NOTES

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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

 \bigoplus for PIPE SIZES UP to 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

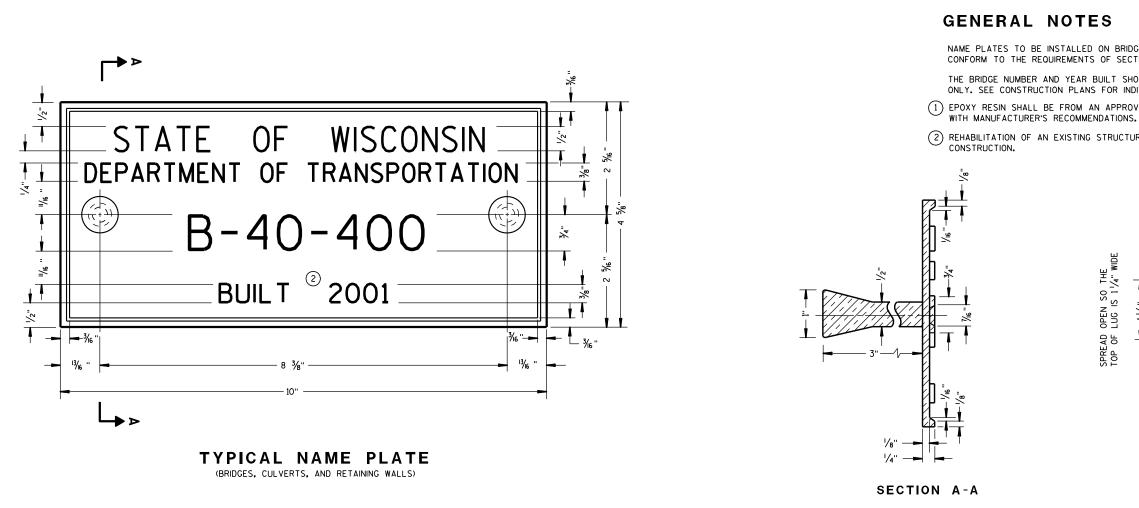
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

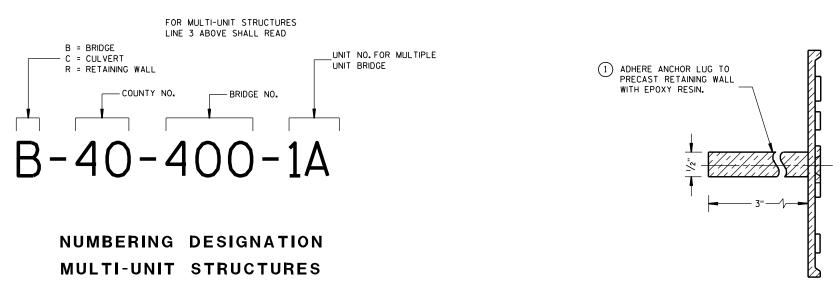
APPROVED II/30/94 DATE FHWA

CHIEF ROADWAY DEVELOPMENT ENGINEER

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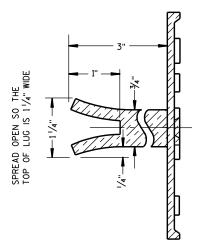


ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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)

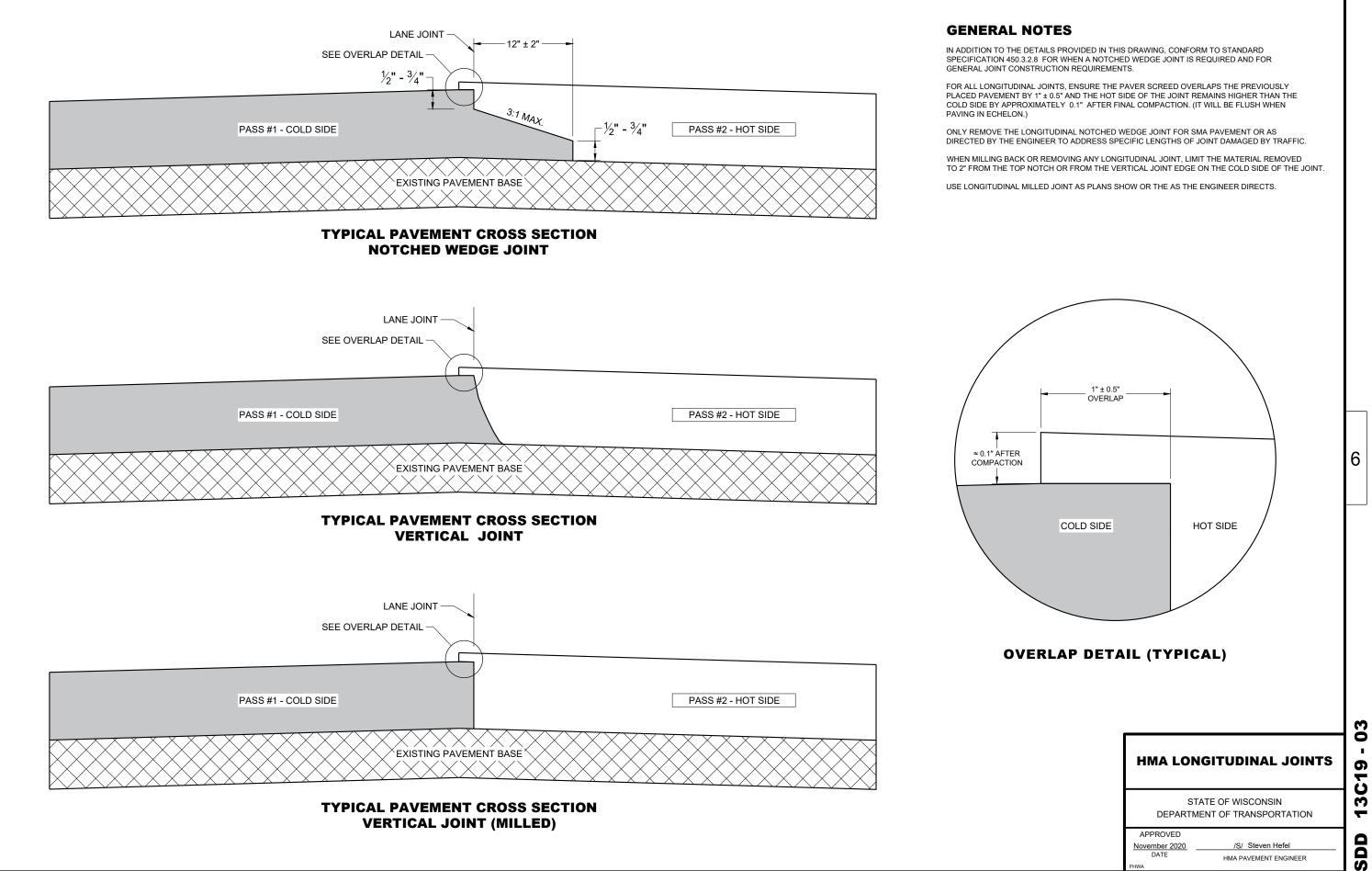
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

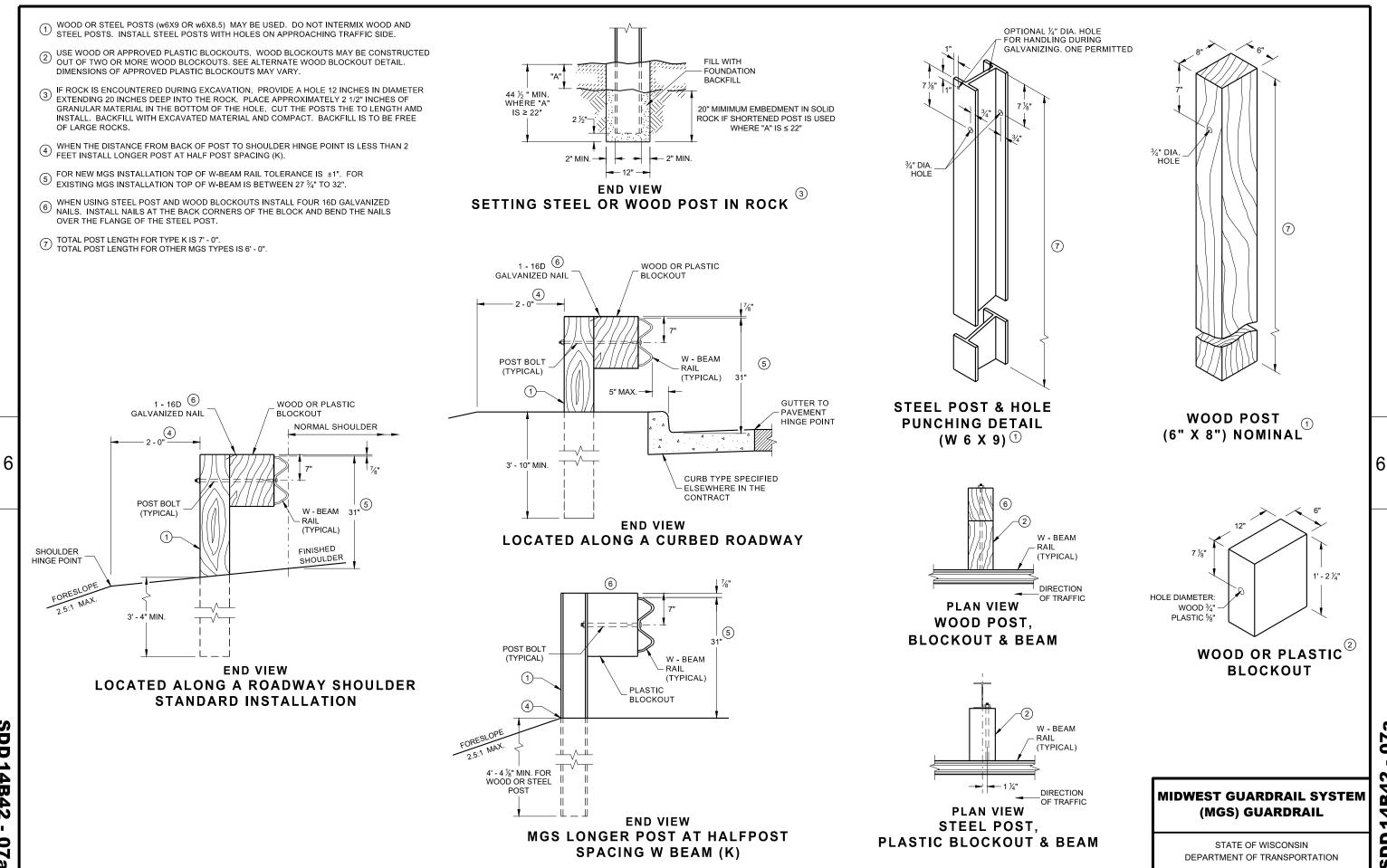
APPROVED

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/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER 6

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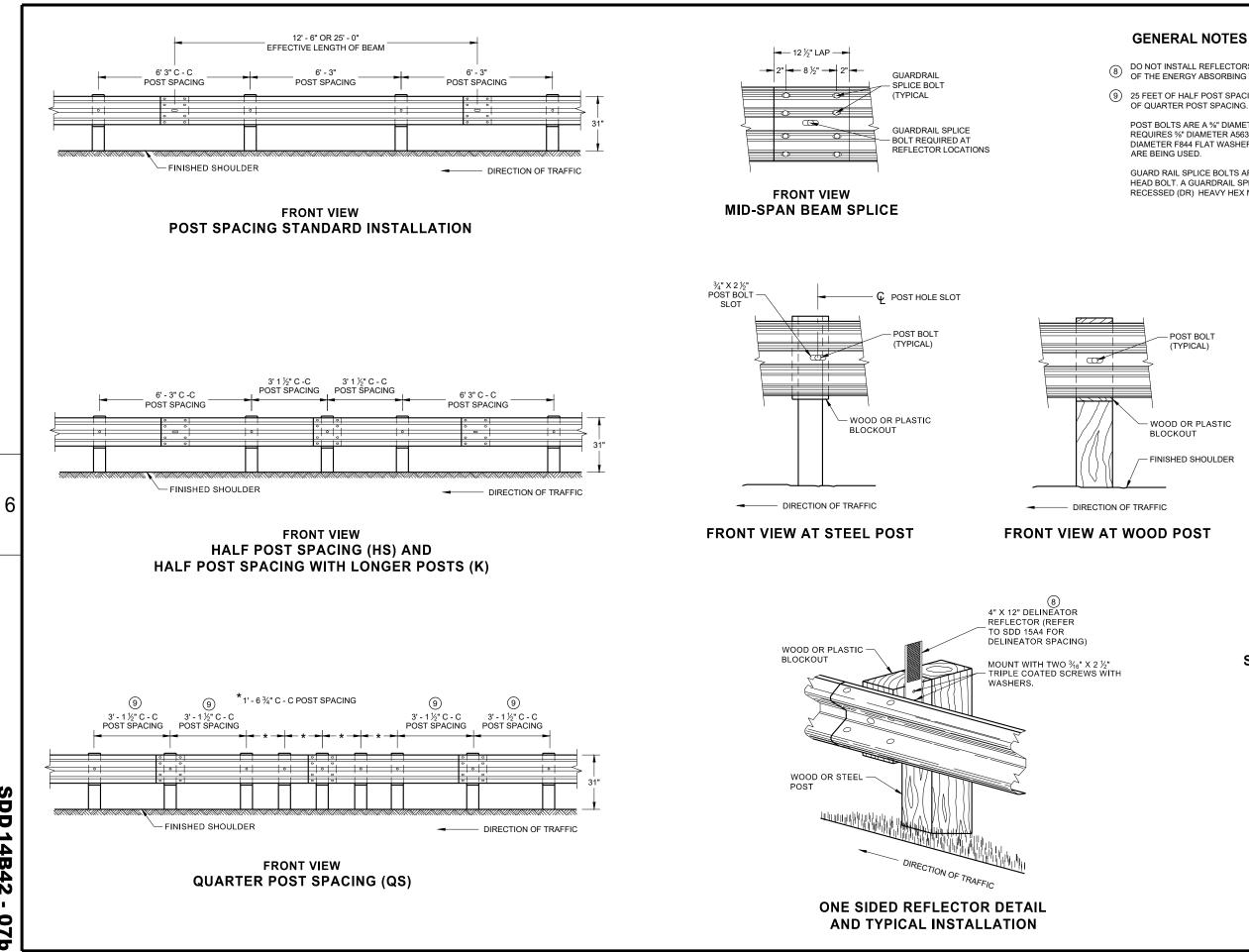
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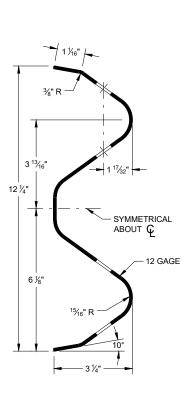
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DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

(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 RECESSED (DR) HEAVY HEX NUT.



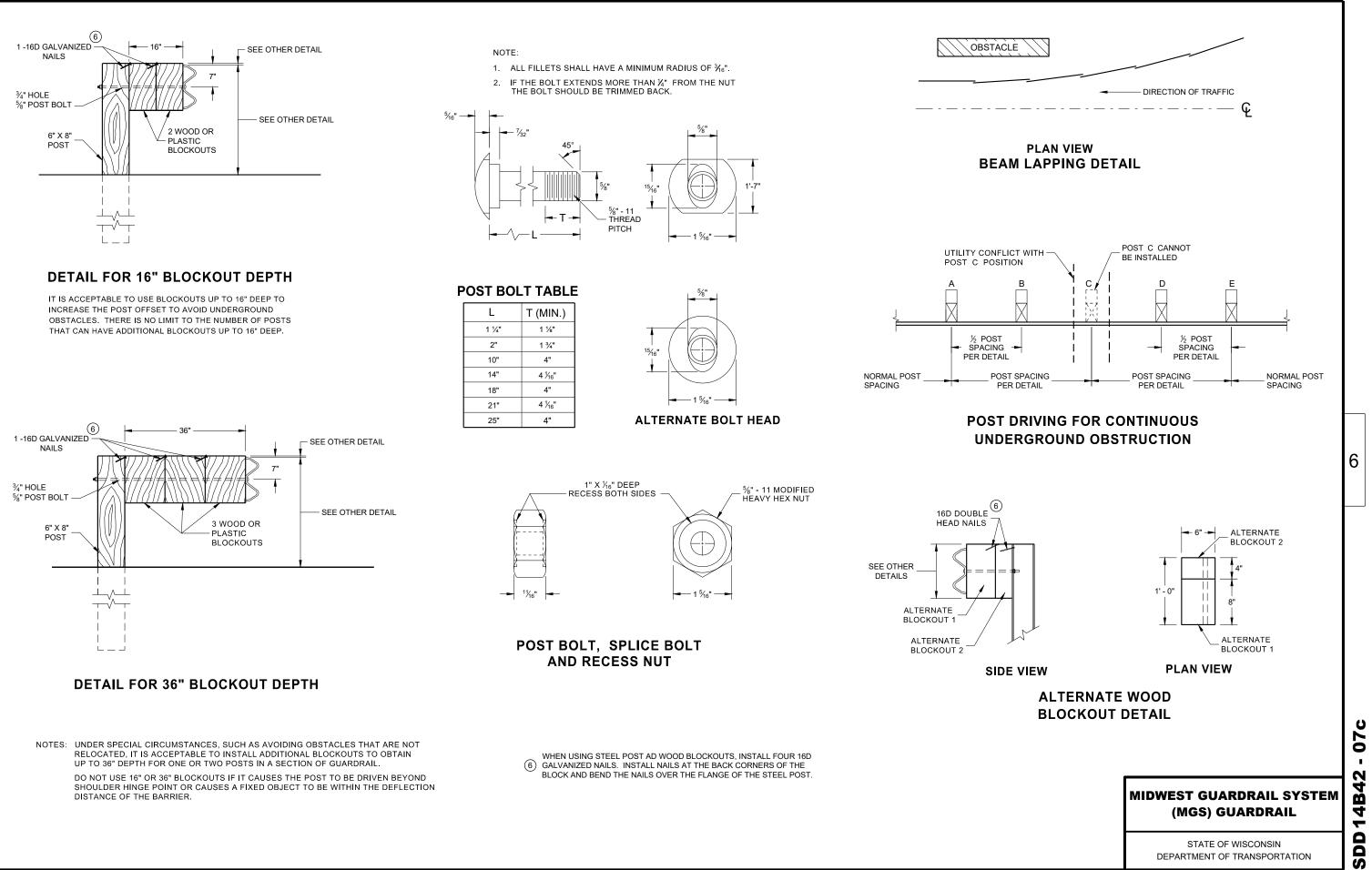
SECTION THRU W-BEAM RAIL

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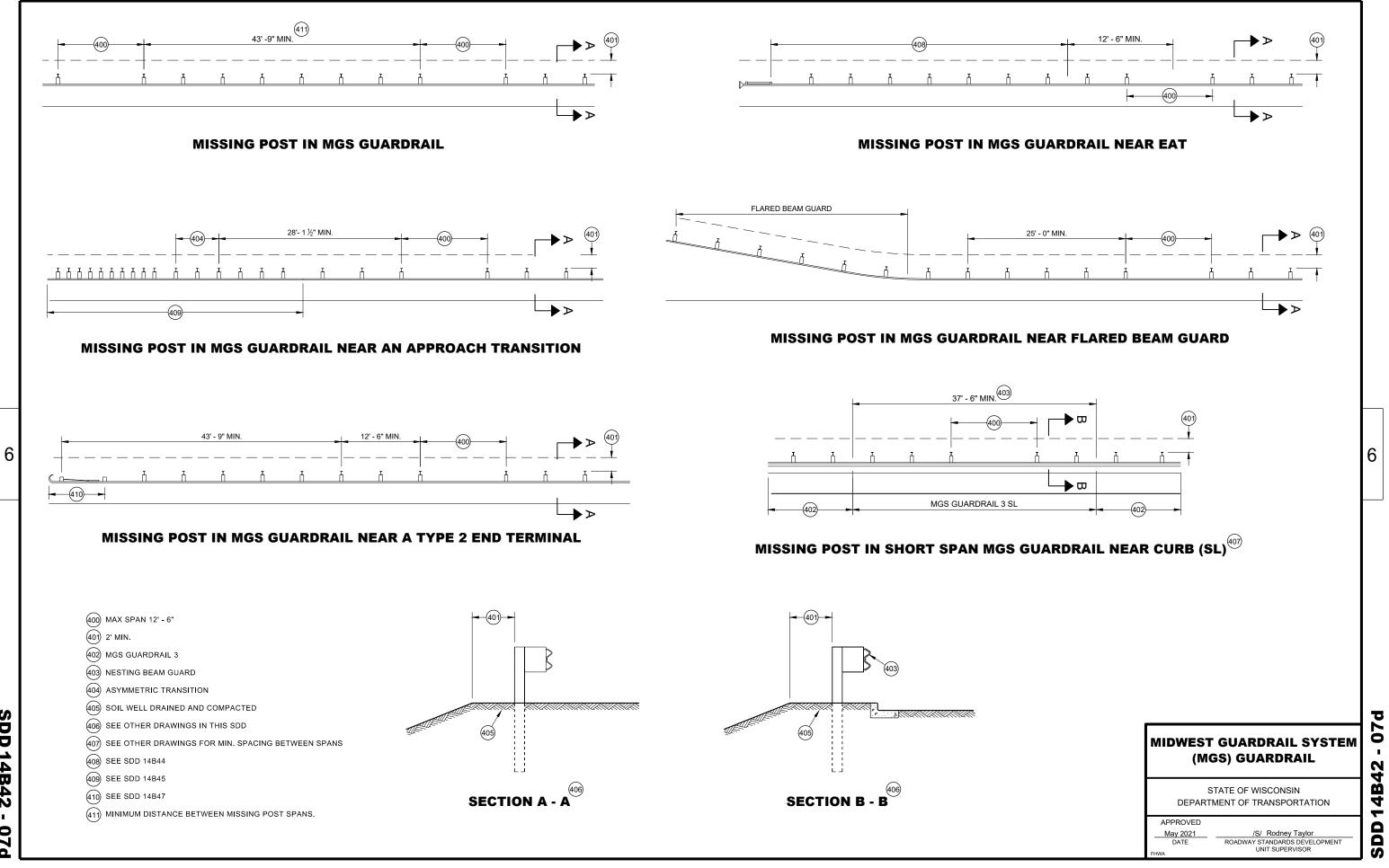
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MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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.

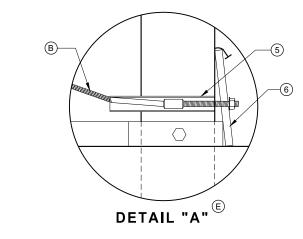
SEE SDD 14B42 FOR MORE INFORMATION.

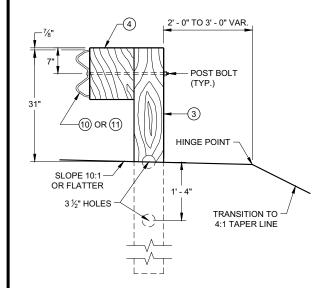
★ DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

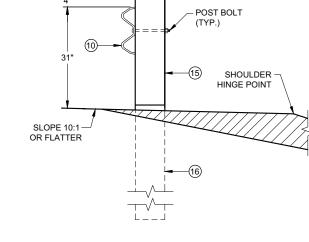
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.

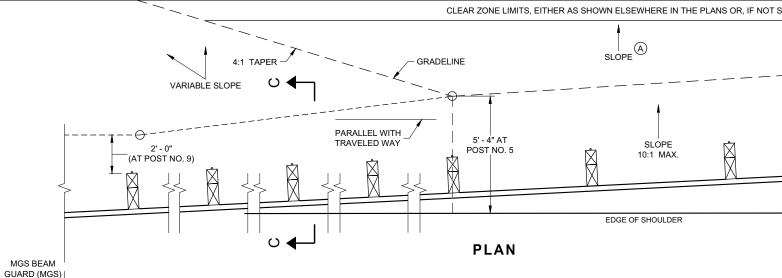


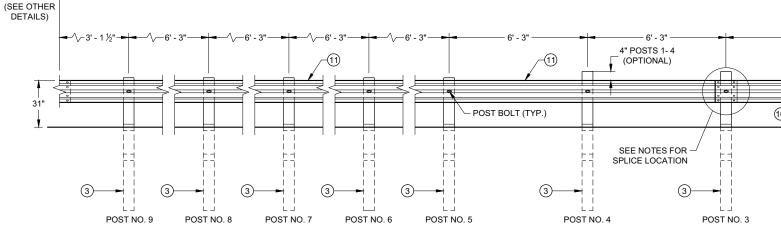


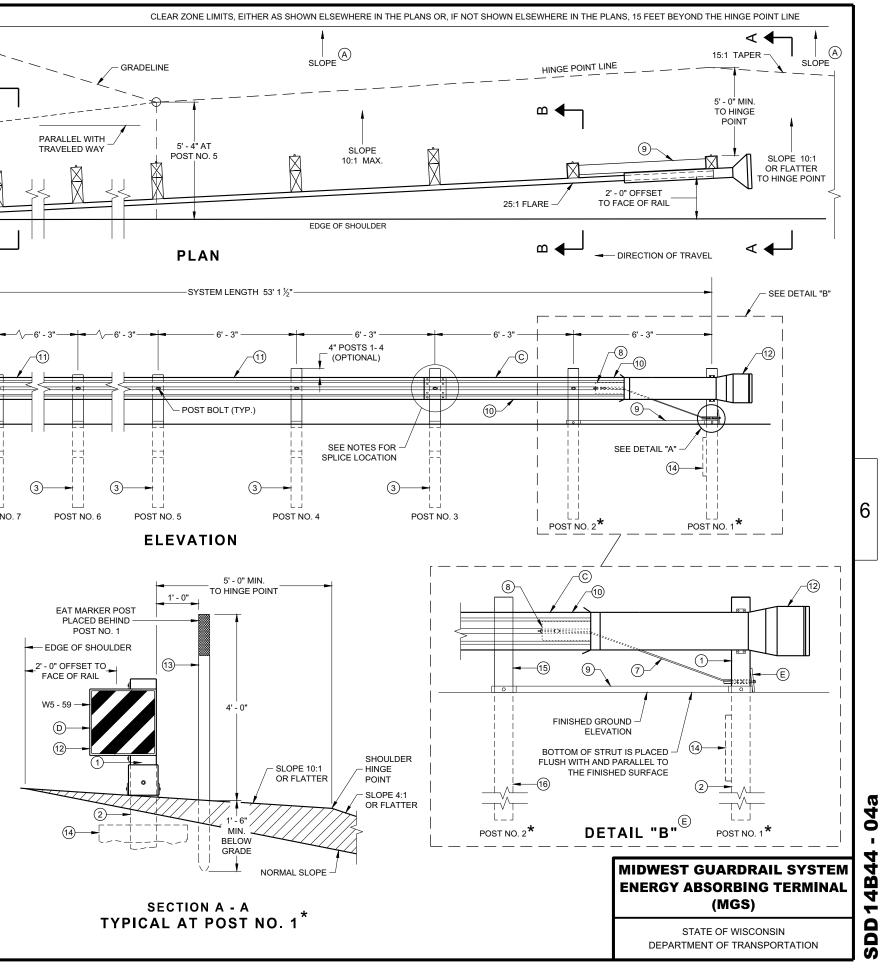


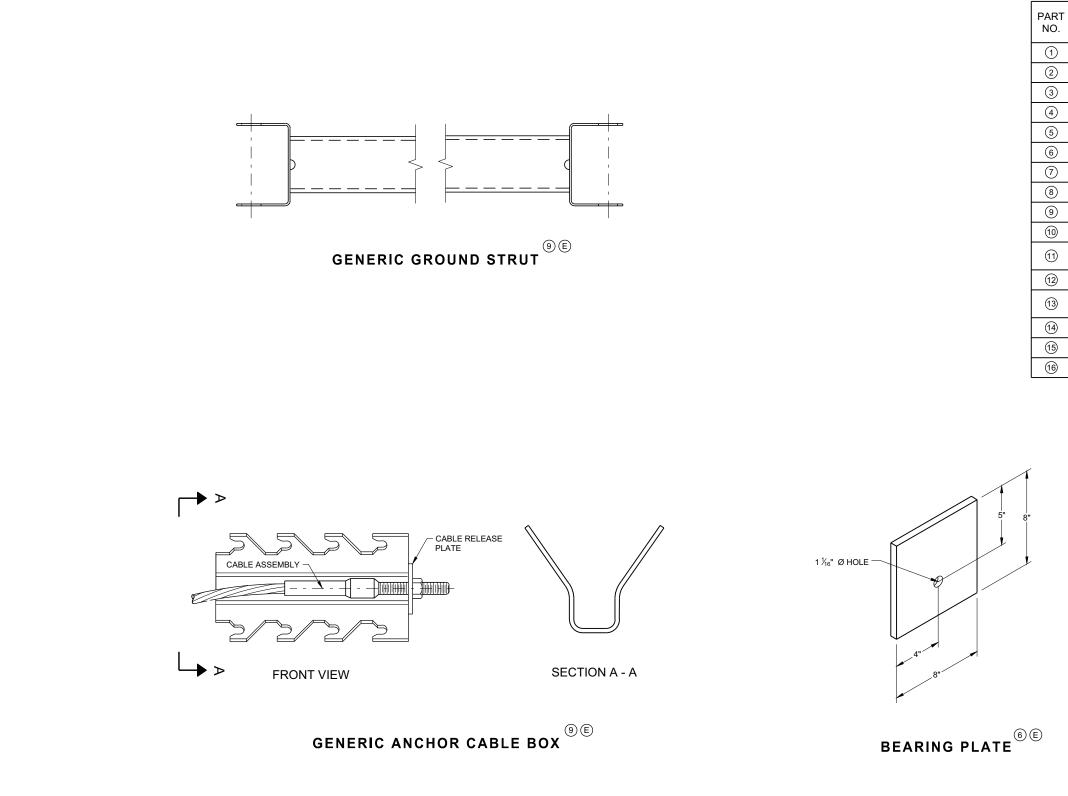


SECTION B - B TYPICAL AT POST NO. 2*









SDD 14B44 - 04b

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BILL OF MATERIALS

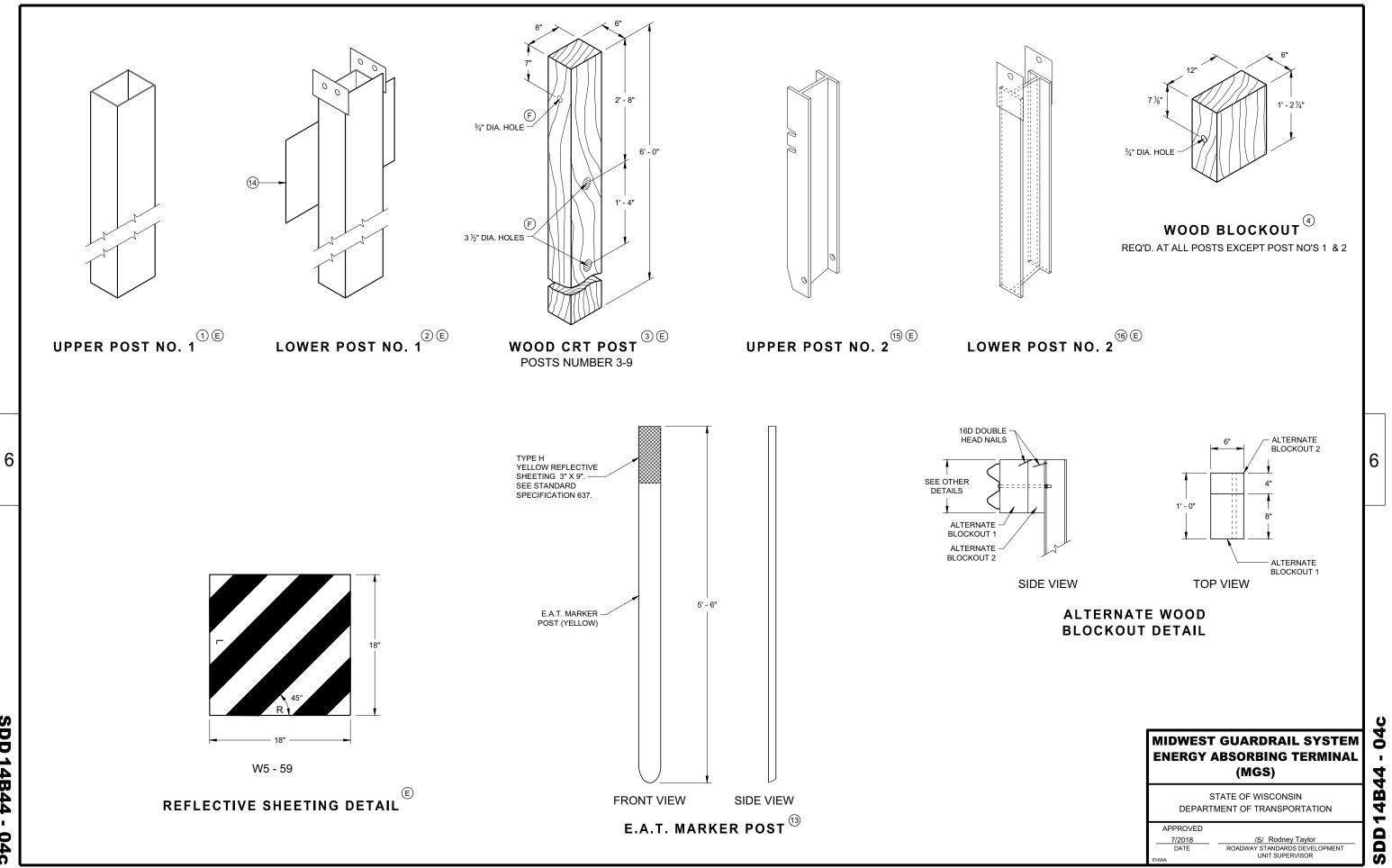
DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
UPPER POST NO. 1 6" X 6" TUBE
LOWER POST NO. 1
WOOD CRT
WOOD BLOCKOUT
PIPE SLEEVE
BEARING PLATE
BCT CABLE ASSEMBLY
ANCHOR CABLE BOX
GROUND STRUT
PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
STANDARD 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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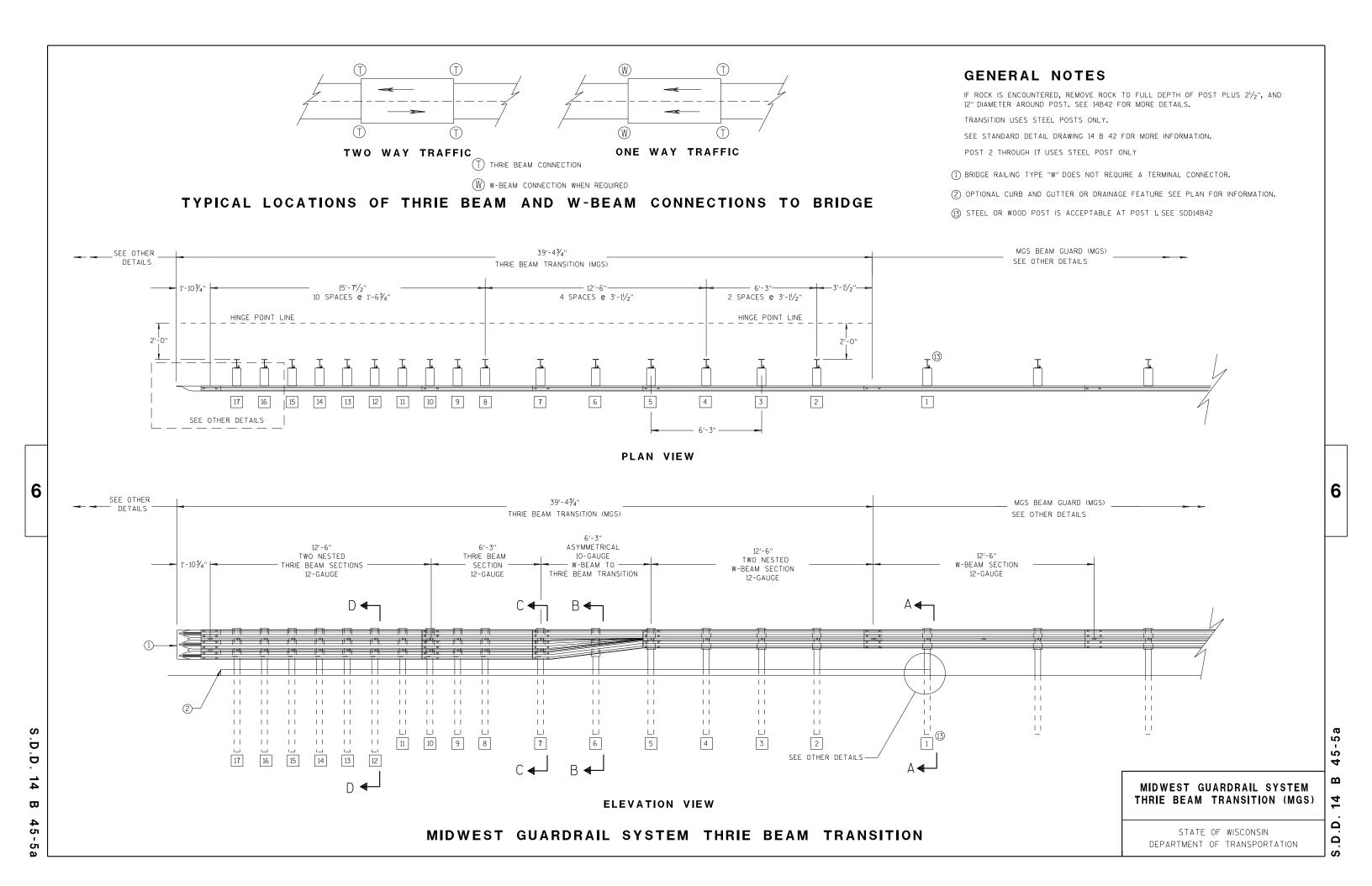
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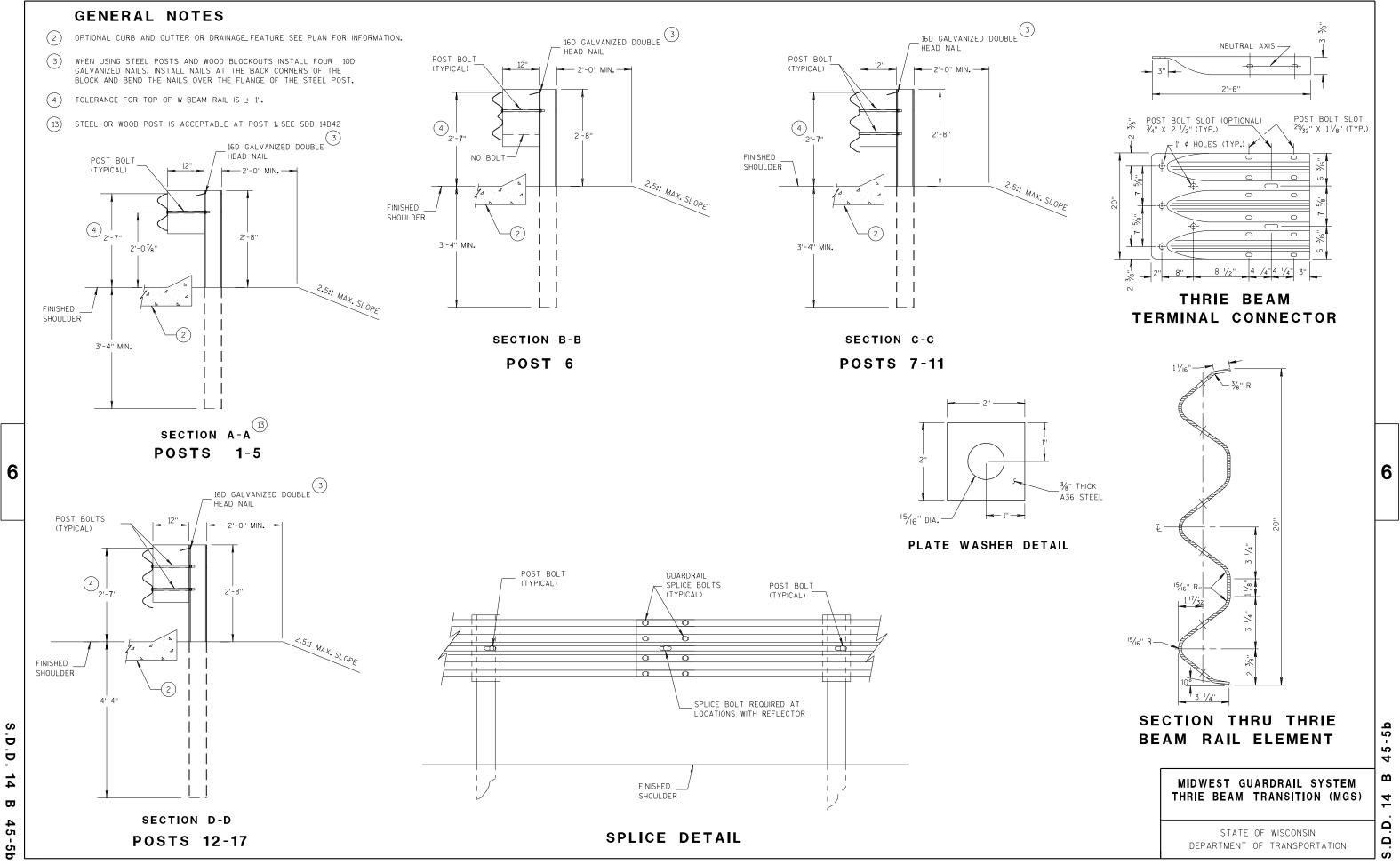
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



SDD 14B44 - 04c



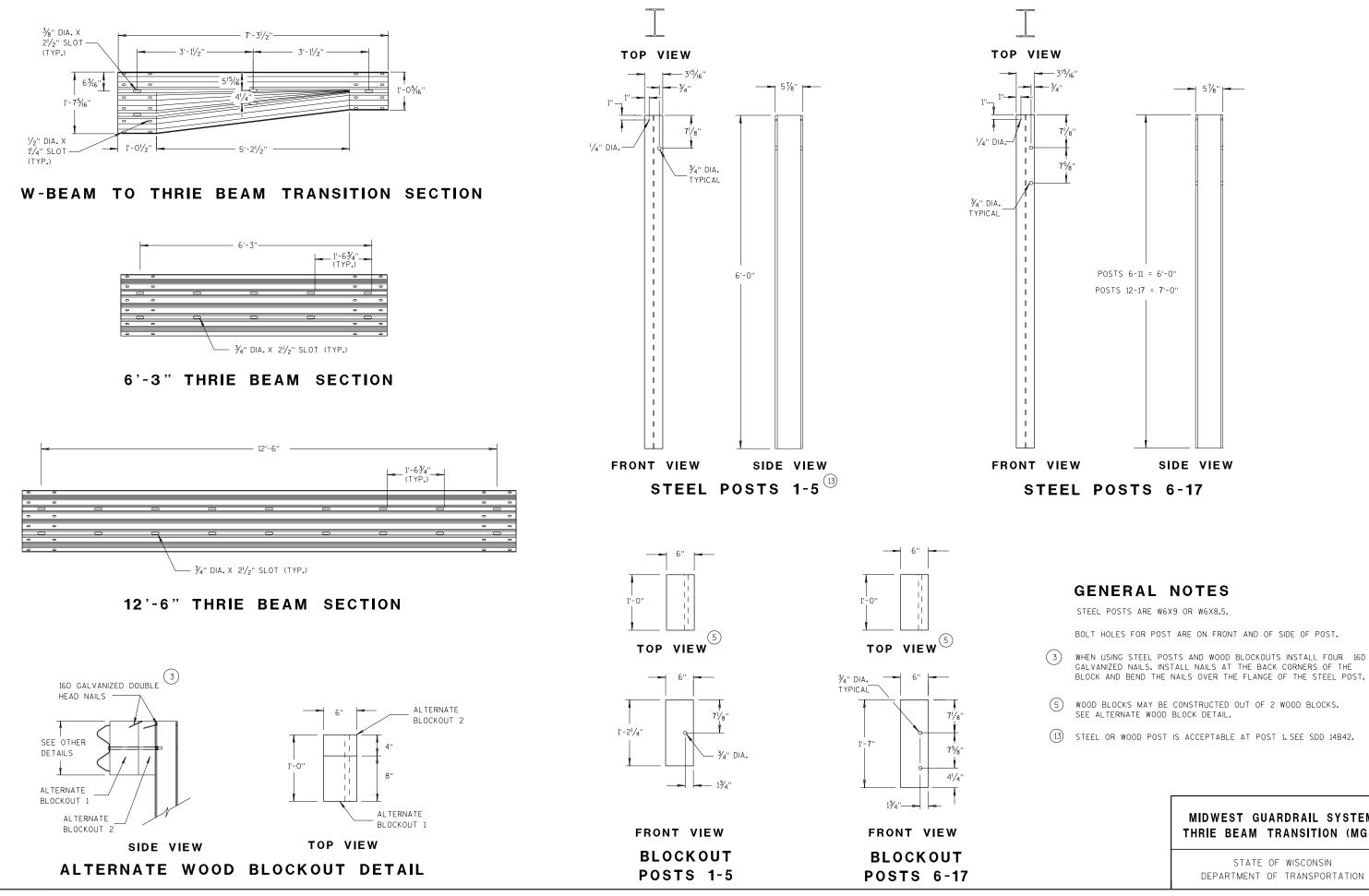


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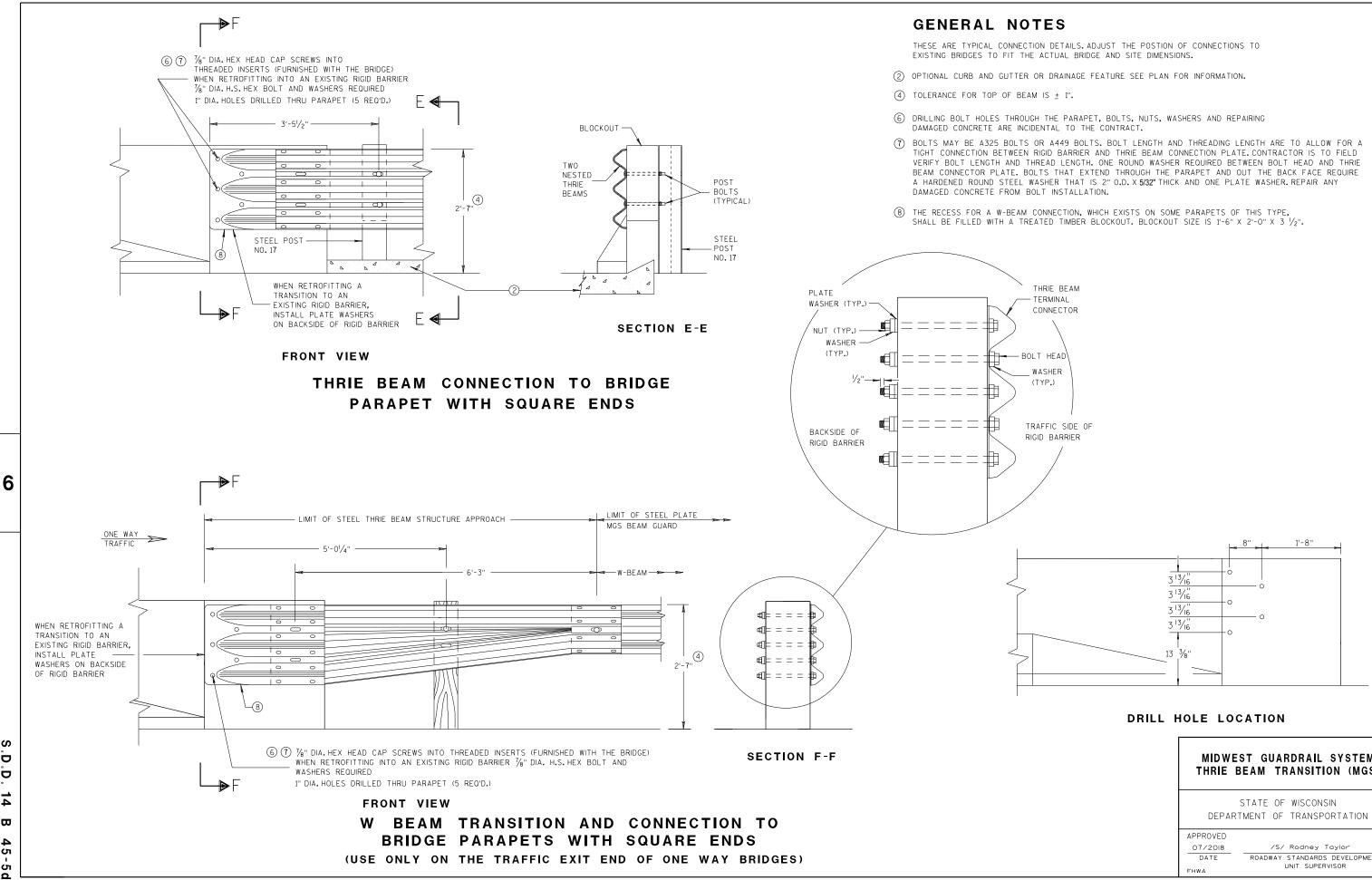
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MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



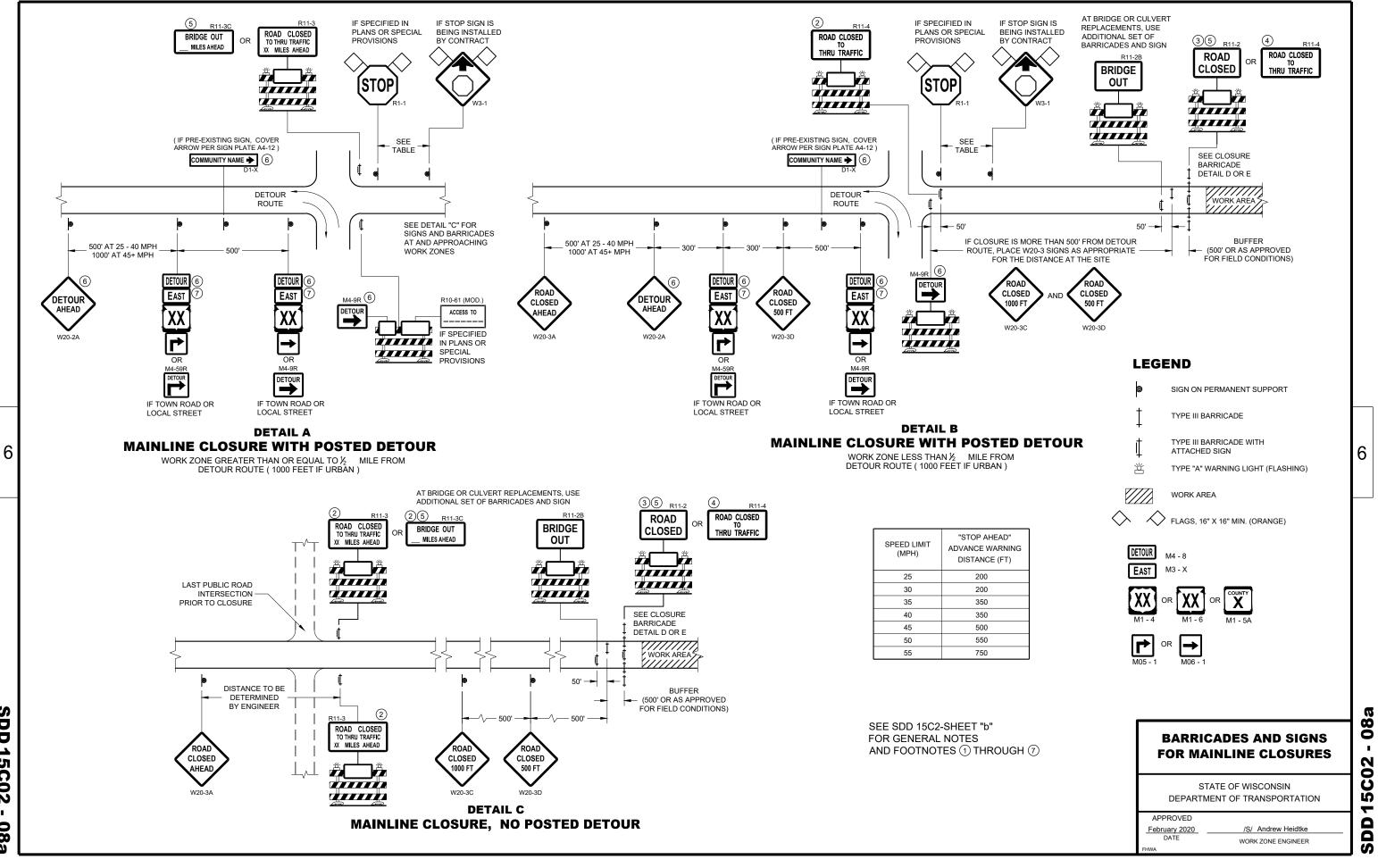
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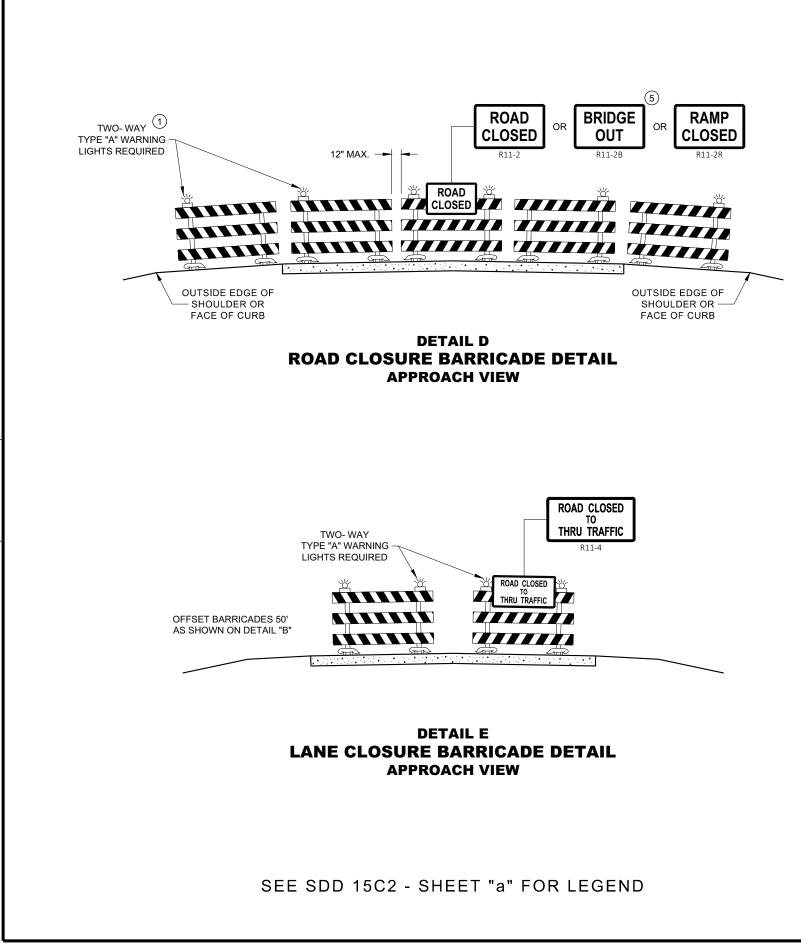
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ES	
DETAILS.ADJUST THE POSTION OF CONNECTIONS TO TUAL BRIDGE AND SITE DIMENSIONS.	
DRAINAGE FEATURE SEE PLAN FOR INFORMATION.	
5 ± 1".	
HE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING TAL TO THE CONTRACT.	
A449 BOLTS. BOLT LENGTH AND THREADING LENGTH 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, ID TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 J_2 ".	
IE BEAM MINAL NECTOR HEAD HER P.) FIC SIDE OF BARRIER	

	ST GUARDRAIL SYSTEM EAM TRANSITION (MGS)	7 5 - 5 4			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION					
APPROVED 07/2018 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.

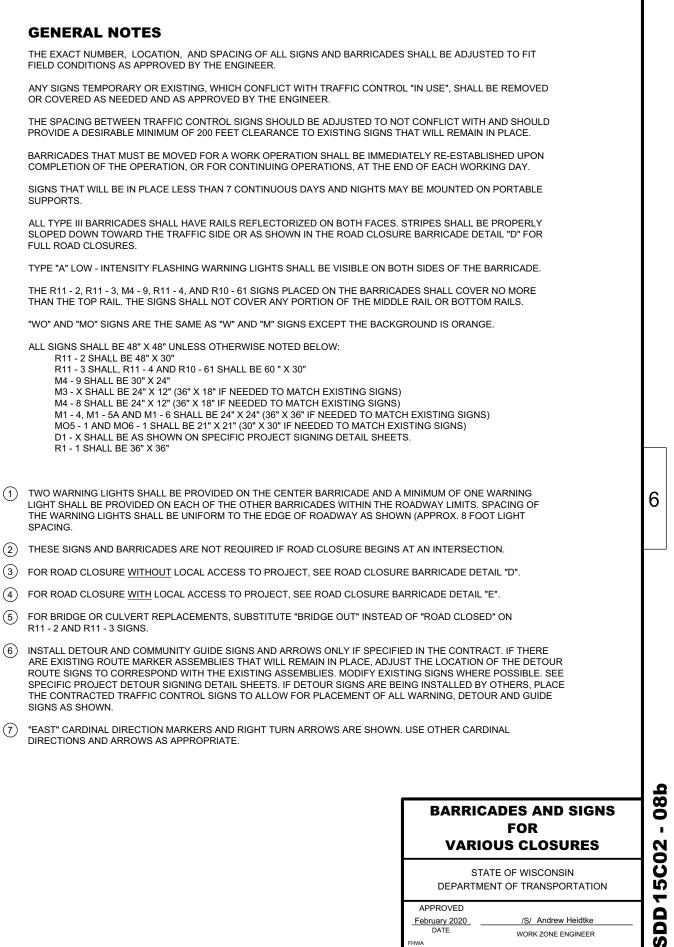
FULL ROAD CLOSURES.

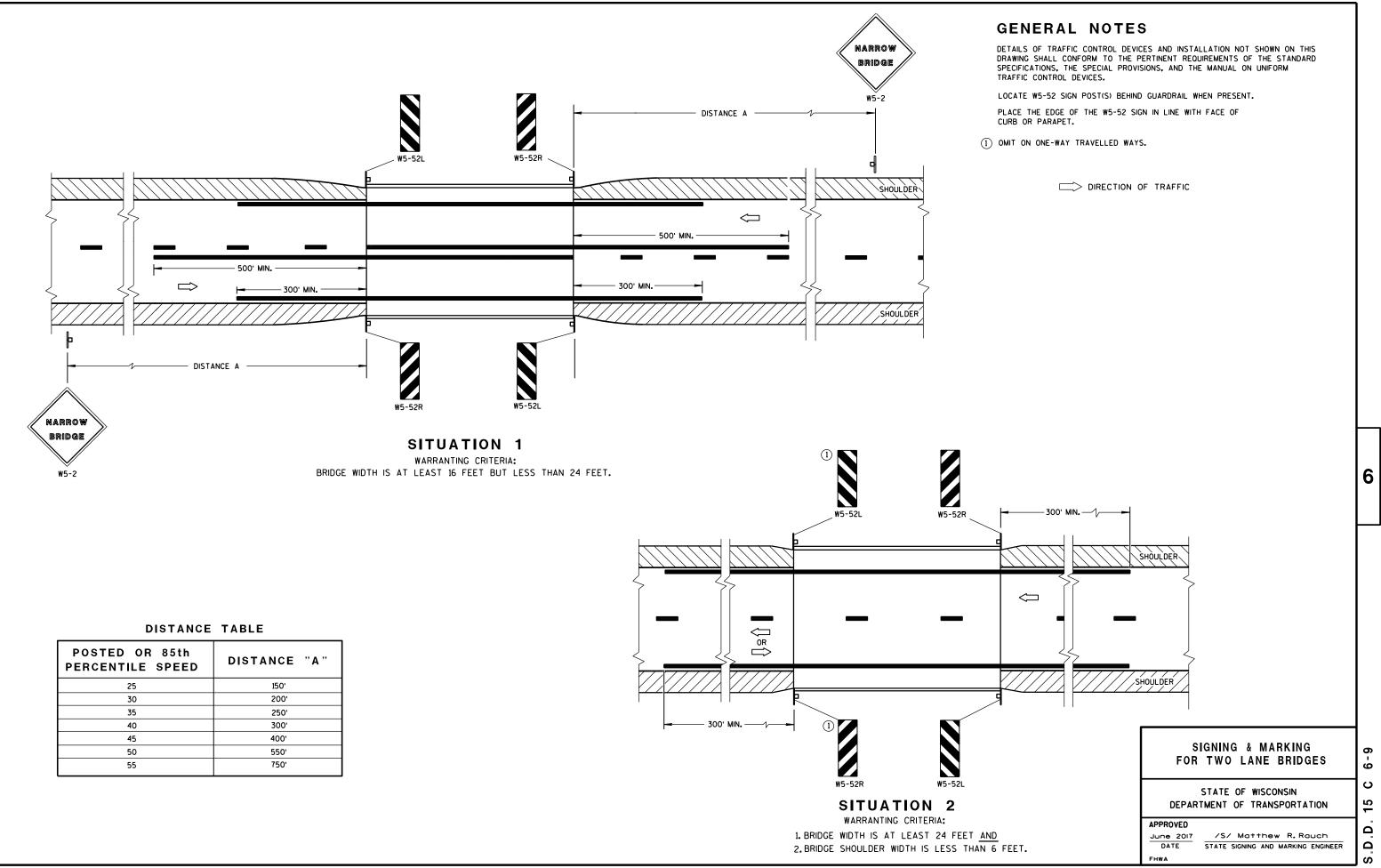
THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"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)

 - 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.
- (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.



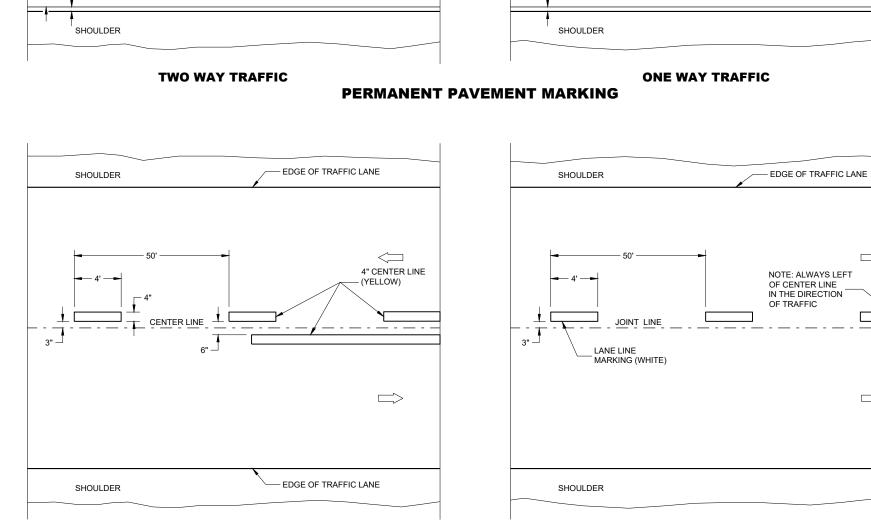


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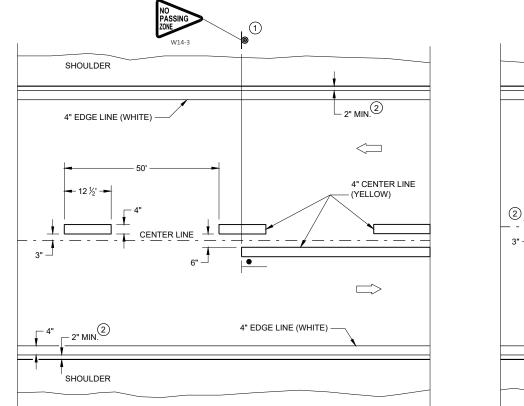
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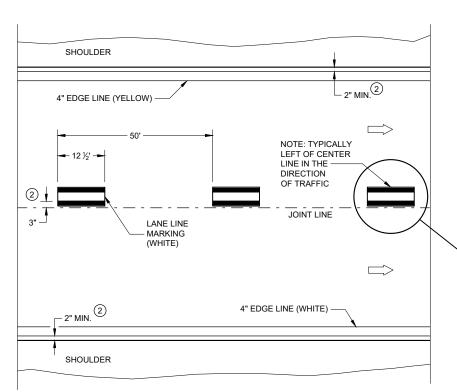




TEMPORARY PAVEMENT MARKING

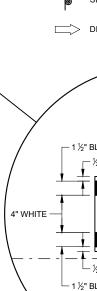


TWO WAY TRAFFIC



ONE WAY TRAFFIC





 \Box

 \Box

GENERAL NOTES

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

1 LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

" BLACK CONTRAST – ½" MAX. GROOVE		
_		
	JOINT LINE	/
' BLACK CONTRAST		

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

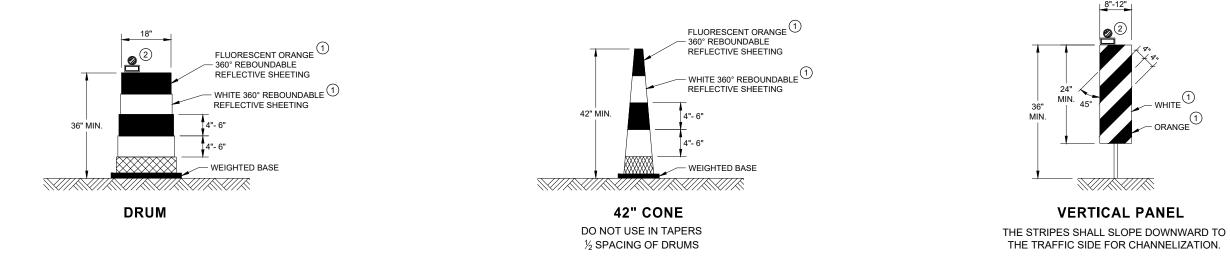
/S/ Matthew Rauch STATEWIDE SIGNING AND MARKING ENGINEER

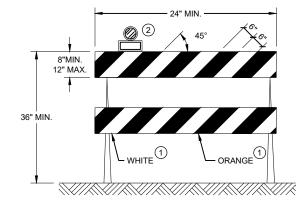
6

SDD15C08 - 20

GENERAL NOTES

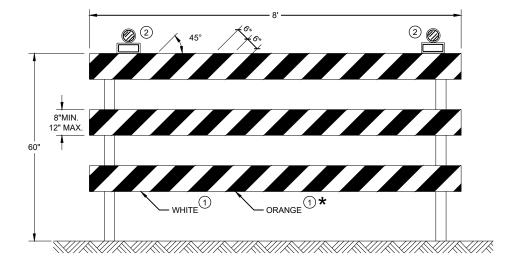
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





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.

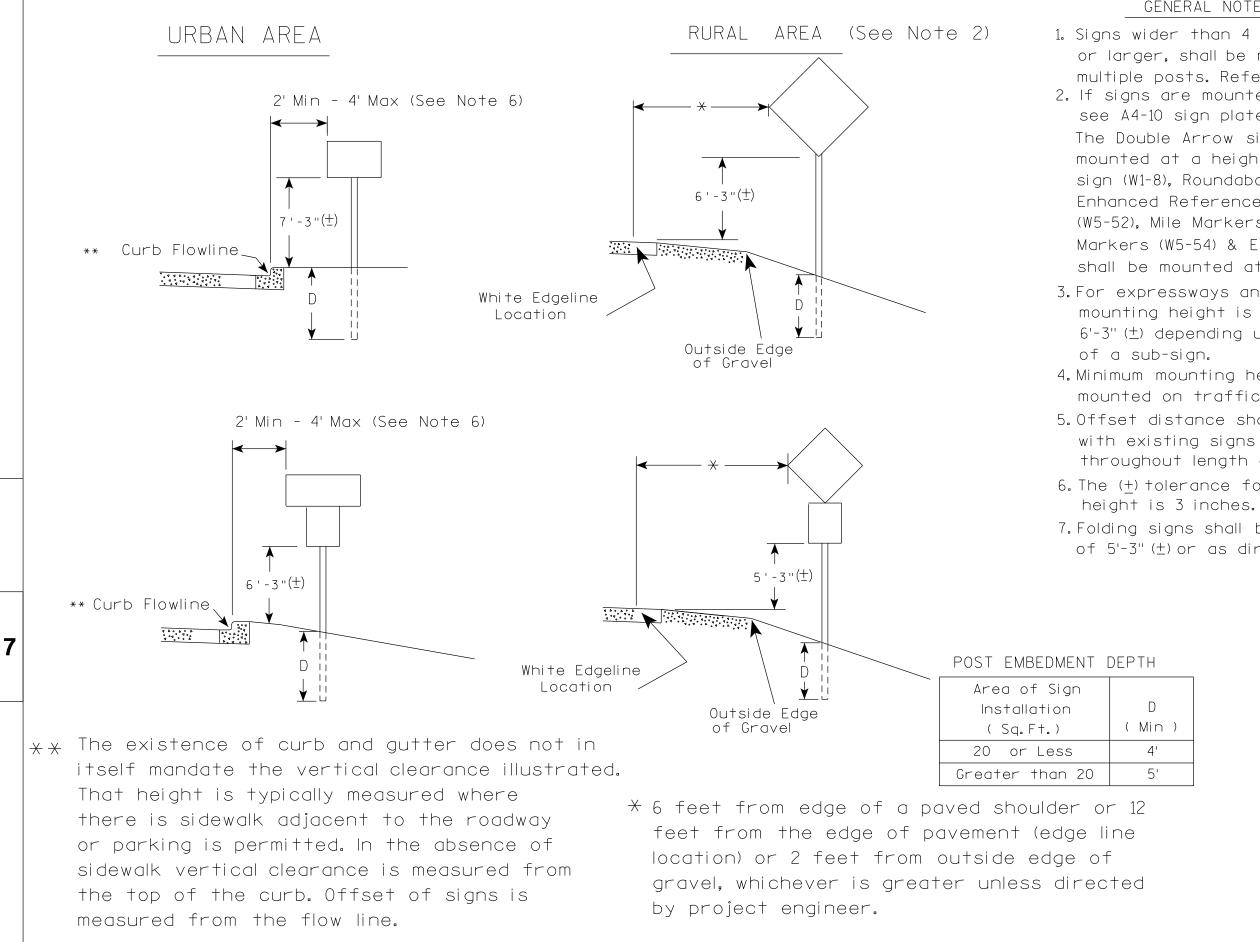
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CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2021 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

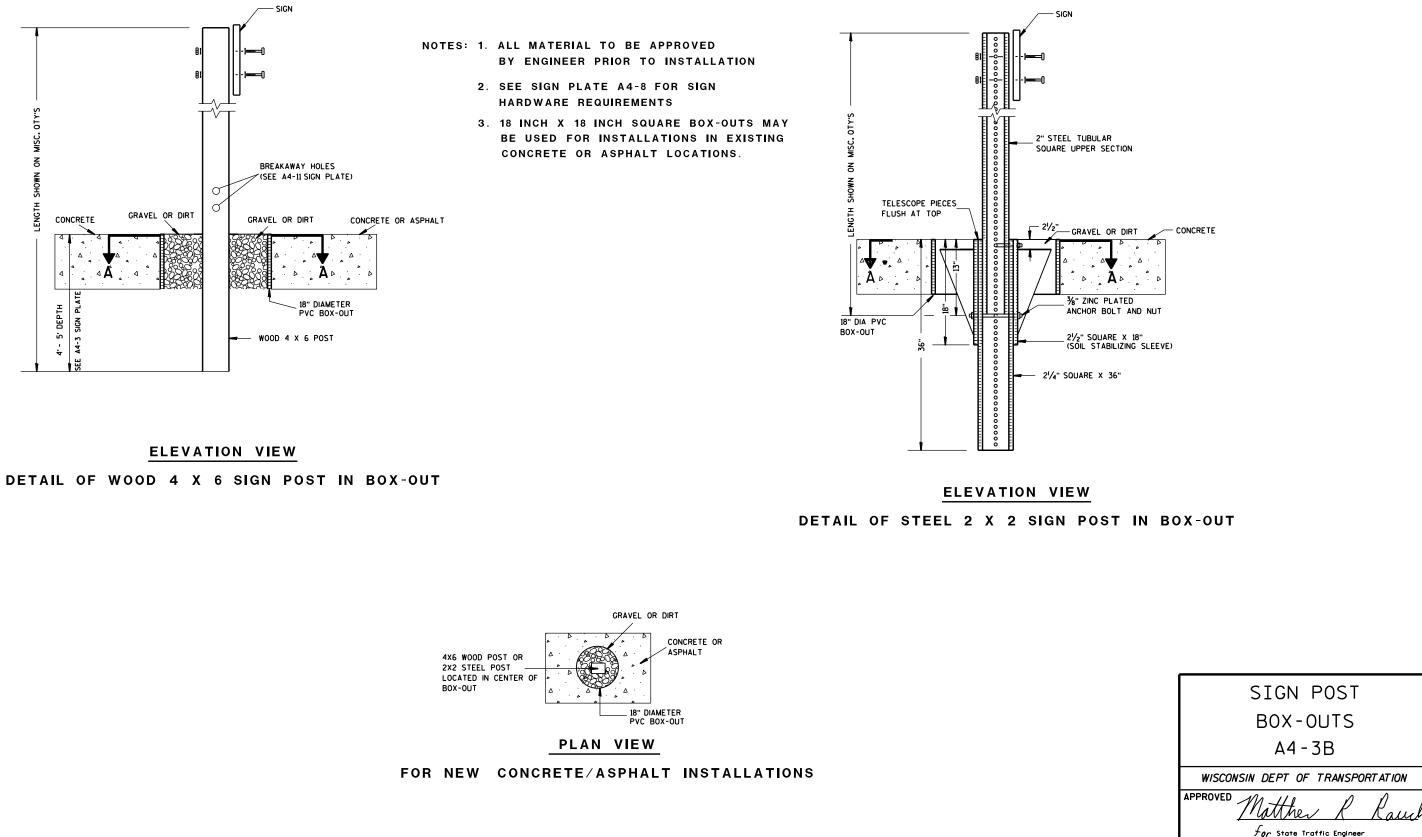


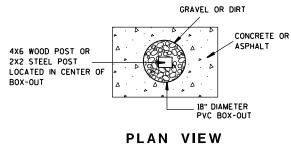
PROJECT NO:	HWY:	COUNTY:			
			DUAT DATE AT MAN AND A A	A DI OT DY O	DLOT NAME -

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





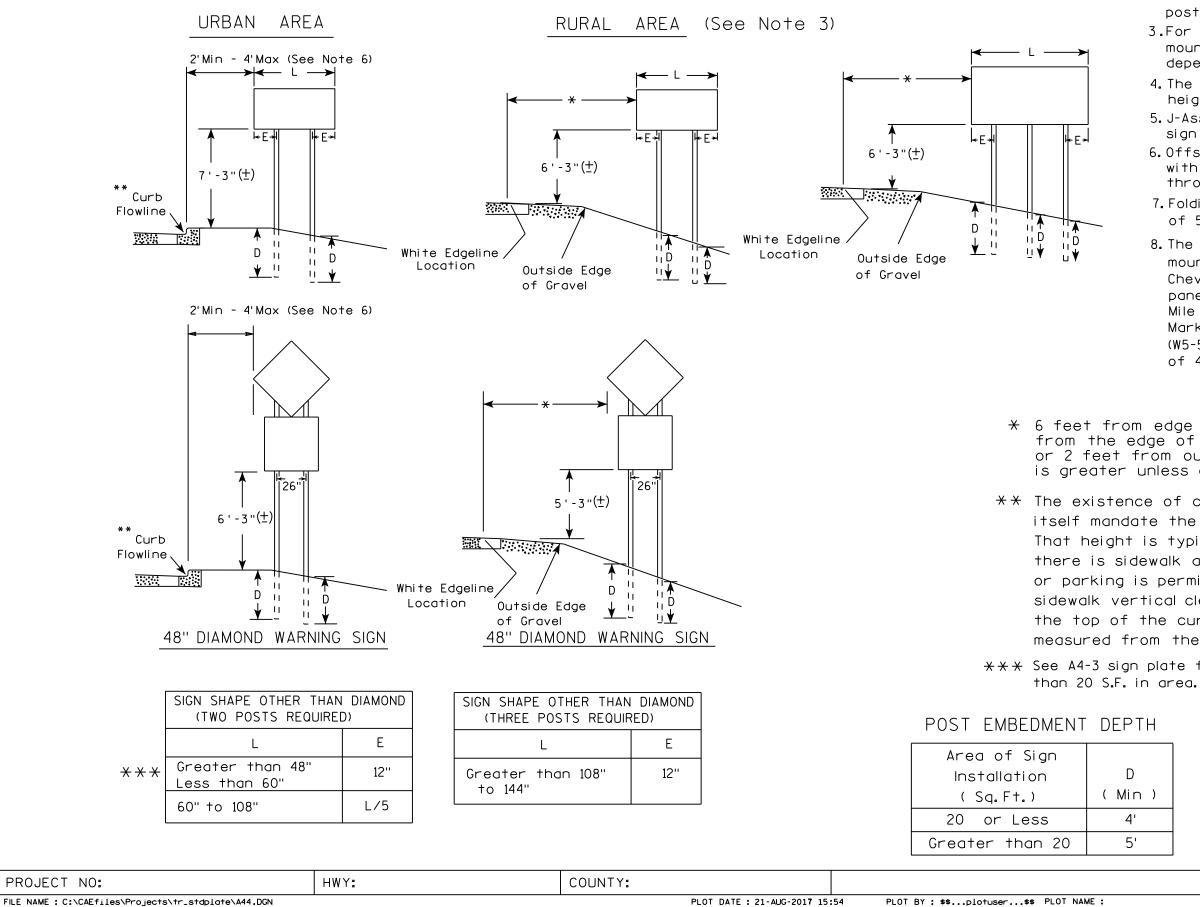
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

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

SHEET NO:

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

Ε



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

7

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.

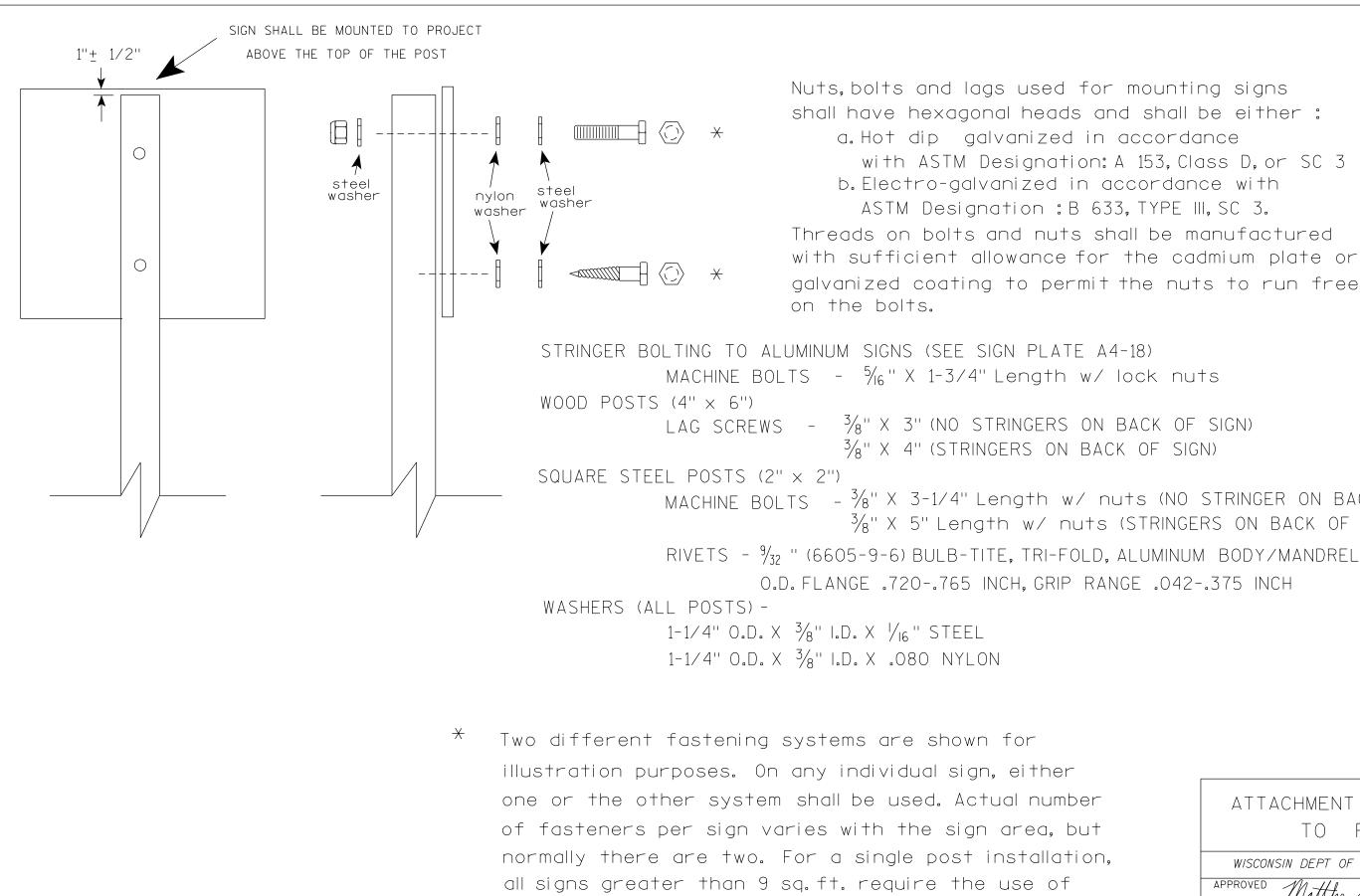
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs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



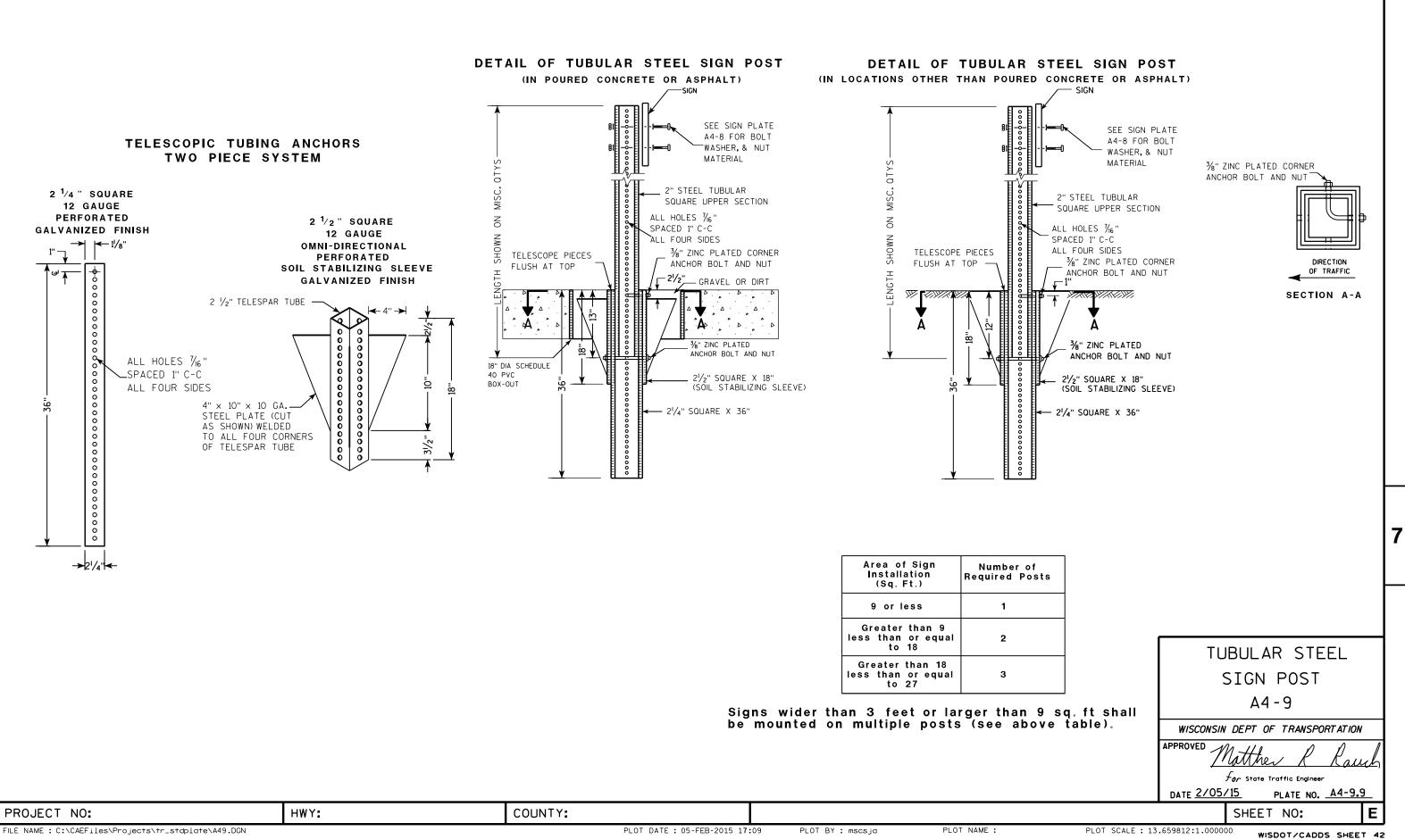
3 fasteners.

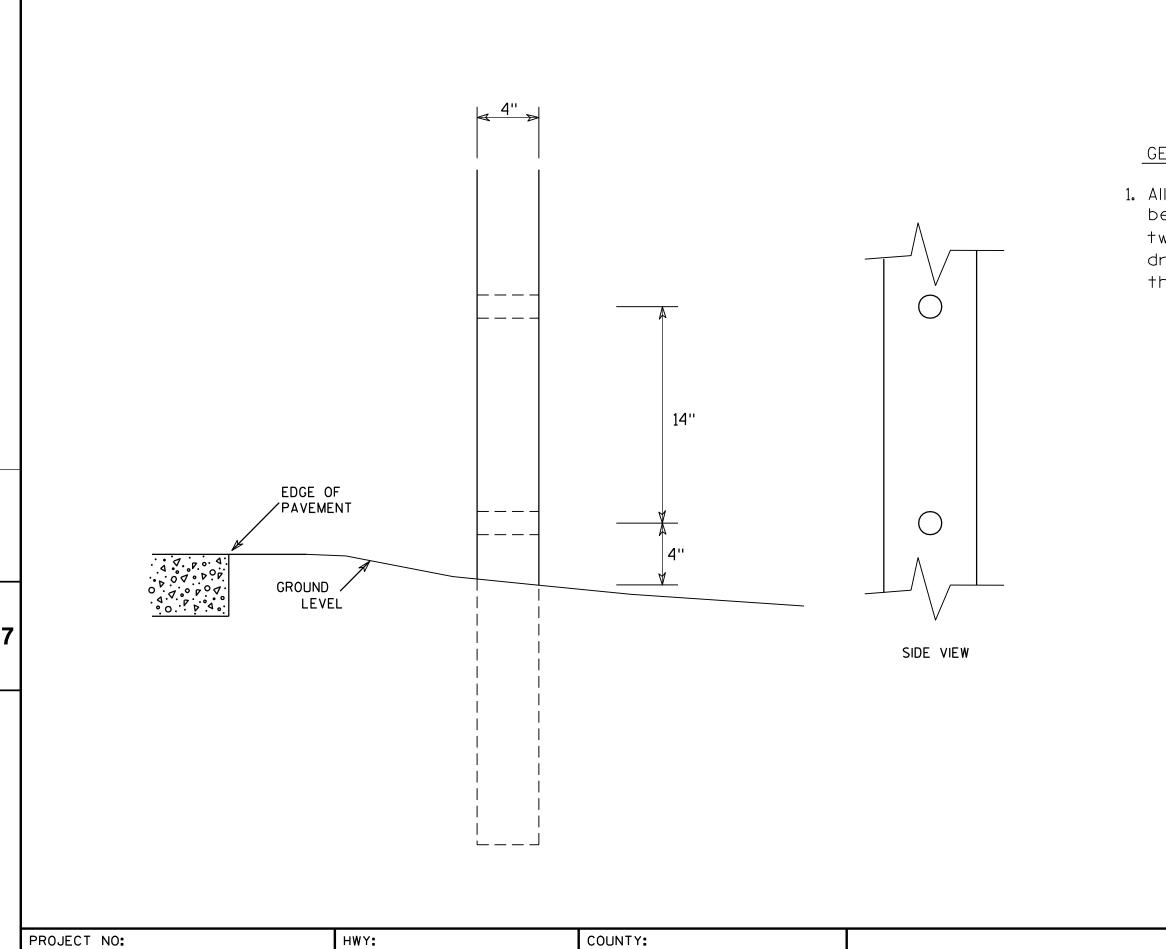
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured 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
<i>+or</i> State Traffic Engineer
DATE <u>4/1/202</u> 0 plate no. <u>44-8.9</u>
SHEET NO: E



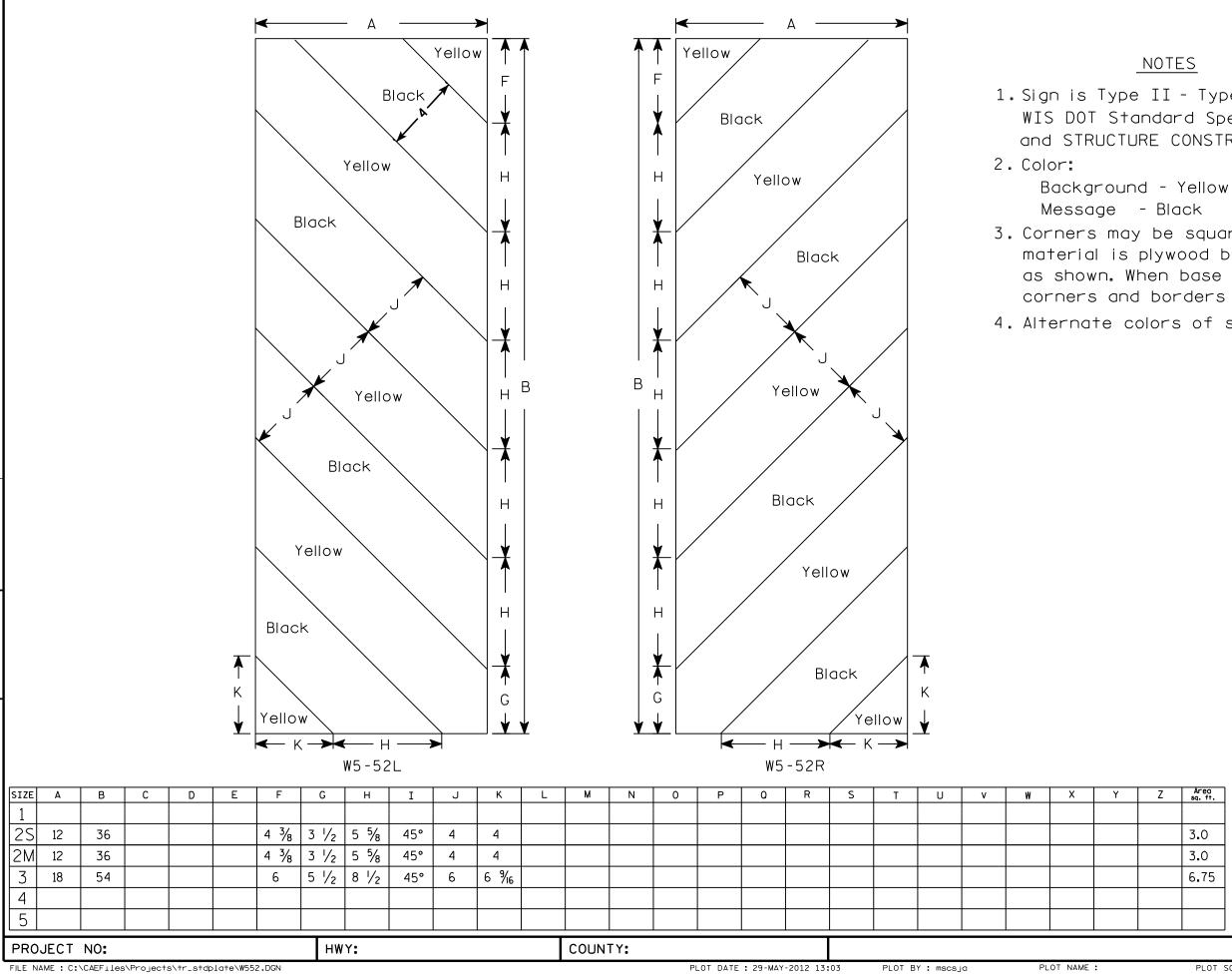


FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

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	Хe	6	WOO	DF	POST	
		MOD	IF	FICA	ΤI	ONS	
	WISCONSIN DEPT OF TRANSPORTATION						
	APPROVE	D		nester .	Γź	Spang	
			tor	State Tr	affic E	ngineer	
	DATE 3	/27/9	<u>17</u>	PLA	TE N	D. <u>44-11</u>	2
				SHEET	N0:		E
OT SCALE	E:6.20 7 33	8:1.0000	000	WISD	от/с	ADDS SHE	ET 42



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W552.DGN

7

PLOT DATE : 29-MAY-2012 13:03

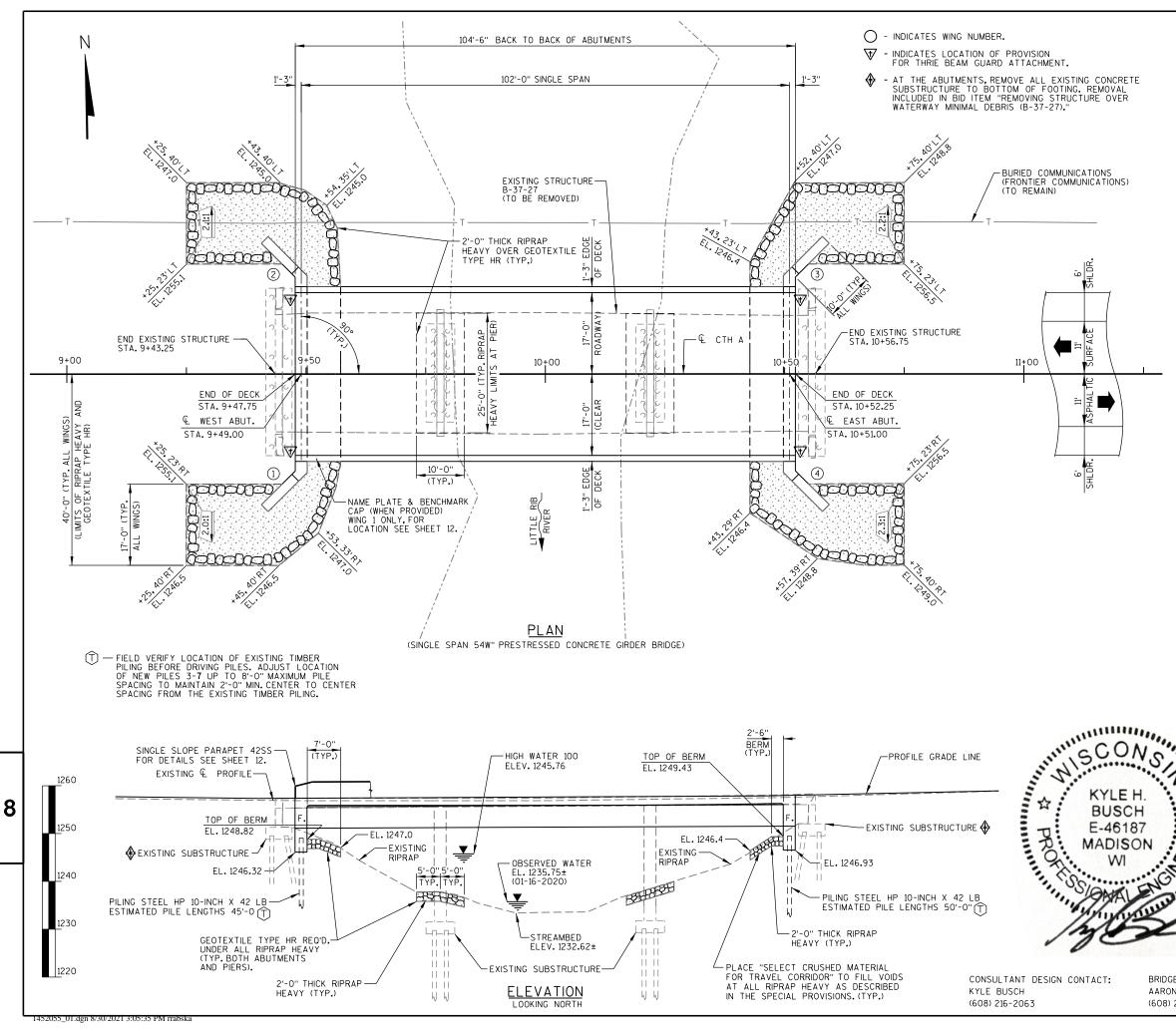
PLOT NAME :

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.

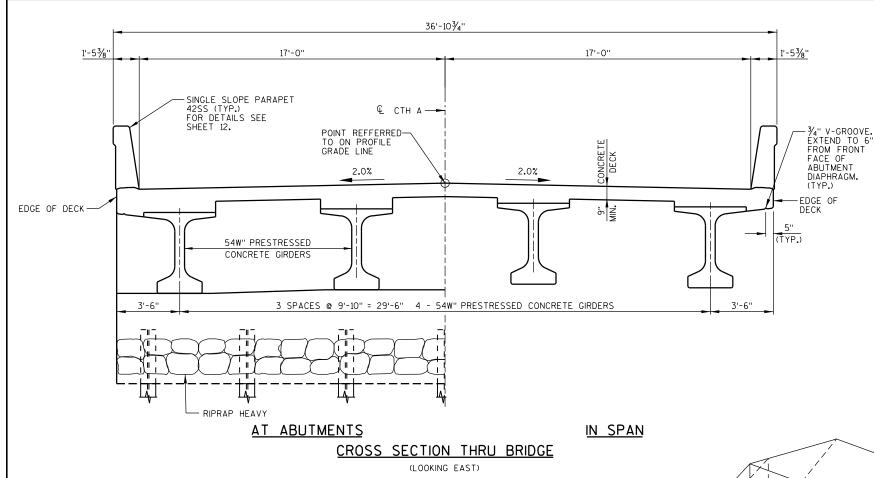
Z	Area sq. ft.	STANDARD SIGN
		W5-52L & W5-52R
	3.0	
	3.0	WISCONSIN DEPT OF TRANSPORTATION
	6.75	APPROVED Matthew R Rauch
		for State Traffic Engineer
		DATE 5/29/12 PLATE NO. W5-52.9
		SHEET NO: E
	PLOT S	SCALE : 4.961899:1.000000 WISDOT/CADDS SHEET 42



	STATE	PROJECT	NUMBER
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9479-00-73

DESIGN DATA						
LIVE LOAD: DESIGN LOADING: HL INVENTORY RATING OPERATIONAL RATIN WISCONSIN STANDAF STRUCTURE IS DESI	FACTOR: 1 IG FACTOR RD PERMIT	VEHICLE (A.A.D R.D.S WIS-SPV) = 2	.T.(2022)= .T.(2042)= .= 25 MPH 50 KIPS.		
OF 20 POUNDS PER MATERIAL PROPERTIES	SQUARE	FOOT.				
CONCRETE MASONR' ALL HIGH-STRENGTH BAF	STEEL					
REINFORCEMENT, G	RADE 60 -		f y =	60,000 P.	S.I.	
54W-INCH PRESTRES CONCRETE MASON STRANDS - 0.60" ¢ ULTIMATE TENSILE	WITH AN		fc = fy =			
FOUNDATION DATA: ABUTMENTS TO BI DRIVEN TO A REO PILE AS DETERMIN ESTIMATED PILE L 50'-0" AT THE EA	UIRED DRIV ED BY THE ENGTHS AF	ING RESIST E MODIFIED RE 45'-0'' A	ANCE OF 17 GATES DYN) TONS X Amic Forml	PER JLA.	
X THE FACTORED A FOR DESIGN IS TH RESISTANCE FACTI DRIVEN PILE CAPA	E REQUIRE	D DRIVING	RESISTANCE	MULTIPLIED	BYA	
HYDRAULIC DATA: 100 YEAR FREQUE	NCY					
DRAINAGE ARE. Q ₁₀₀ VELOCITY ——	Δ			— 19.1 SQ. M — 4,740 C.F	I. .s.	
WATERWAY AR	FΔ ———			- 574 SO. F	SEC. T.	
SCOUR CRITICA HIGH WATER 100				1045 70		
Q2 ELEVATION Q2 VELOCITY -				– 1,060 C.F. – 1241.03	.S .	
Q2 VELOCITY - <u>ROADWAY OVERFL</u> OVERTOPPING	OW DESIGN	FREQUEN	CY	-3.55 FT./ -> 100 YE	SEC. ARS	
LIST OF DRAV 1. GENERAL PLAN 2. CROSS SECTION, QU. 3. SUBSURFACE EXPLO 4. WEST ABUTMENT 5. WEST ABUTMENT DE 6. EAST ABUTMENT DE 8. 54W" PRESTRESSED 9. 54W" PRESTRESSED 10. SUPERSTRUCTURE 11. SUPERSTRUCTURE 12. SINGLE SLOPE PAR 13. STEEL DIAPHRAGM	ANTITIES & RATION ETAILS ETAILS GIRDER GIRDER & GECTIONS 8	DECK FOR	MING DETAILS	5		
···.	NO. DATE		REVISION		BY	
1211	Ø.	MS	FUNDING P 1702 PANKRA (608) 242-7	ARCHITECTURE LANNING ENVIRG 72 STREET, MADISC 779 www.n ASA Professional Services, Inc.	ONMENTAL ON WI 53704 nsa-ps.com	8
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ACCEPTED						
3 sur	STRU	CTURE	B-	37-459	}	
DI	COUNTY		TOWN/H	B RIVER		
8/30/2021	DESIGN SPEC AASHTO LR DESIGNED	FD BRIDGE D	ESIGN SPECIFICA	TIONS	BERLIN	1.DGN
DGE OFFICE CONTACT:	BY JZ	ERAL I	HB BY	RLR CKD.	КНВ	FILE= 142055_01.DGN
80N BONK 8) 261-0261						FILE=



WEET FACT

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE FIRST DIGIT OF A THREE DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

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

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE LIMITS SHOWN ON SHEET 1 AND ON THE ABUTMENT SHEETS, OR AS DIRECTED BY THE ENGINEER. AFTER THE PLACEMENT OF RIPRAP HEAVY, PLACE SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR TO FILL VOIDS ON ALL RIPRAP SURFACES.

THIS STRUCTURE WILL REPLACE THE EXISTING STRUCTURE, B-37-27, A 113.5 FT. LONG, THREE SPAN HAUNCHED CONCRETE SLAB BRIDGE SET ON CONCRETE ABUTMENTS WITH TIMBER PILING AND CONCRETE PIERS WITH TIMBER PILING, WITH A 24.0 FT. CLEAR ROAD WIDTH

(B)-BACKFILL PAY LIMITS, BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

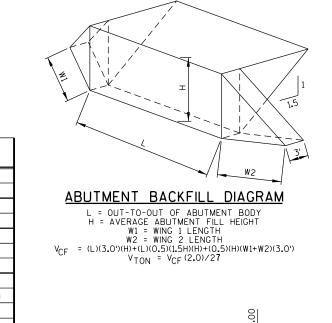
THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET.

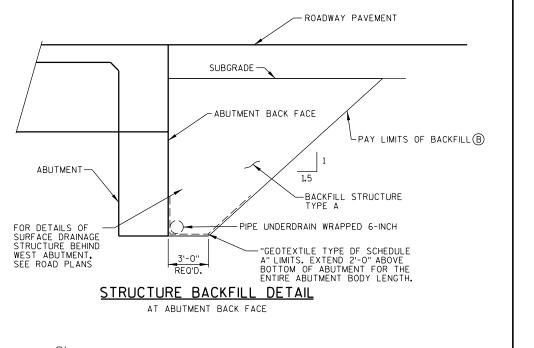
EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-O" ABOVE BOTTOM OF ABUTMENT.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP OF DECK, TO THE TOP AND EXTERIOR EXPOSED FACES OF WINGS, AND TO THE END 1'-O" OF THE FRONT FACE OF ABUTMENTS.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USCS NAVD 88 (2012 ADJUSTED). BENCHMARK REFERENCES AT THE PROJECT SITE WERE SET BY THE CONSULTANT USING GPS TECHNOLOGY.

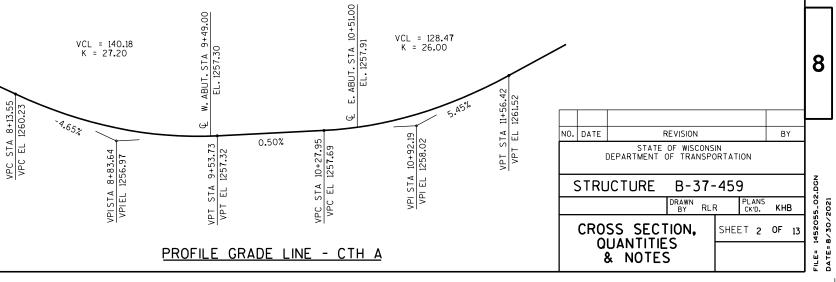
THE HAUNCH CONCRETE QUANTITIY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE GIRDER SHEET, SHEET 9.



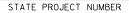


TOTAL ESTIMATED QUANTITIES

ITEM NUMBER			WEST ABUT.	EAST ABUT.	SUPER	TOTAL
203.0260.01	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS B-37-27	EACH	-	-	-	1
206.1000.01	EXCAVATION FOR STRUCTURES BRIDGES B-37-459	LS	-	-	-	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	308	308	-	616
502.0100	CONCRETE MASONRY BRIDGES	CY	35.7	36.5	185.6	258
502.3200	PROTECTIVE SURFACE TREATMENT	SY	23	23	395	441
502.3210	PIGMENTED SURFACE SEALER	SY	-	-	104	104
503.0155	PRESTRESSED GIRDER TYPE I 54W-INCH	LF	-	-	412	412
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,605	2,605	-	5,210
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,825	1,840	29,065	32,730
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	-	-	8	8
506.4000.01	STEEL DIAPHRAGMS B-37-459	EACH	-	-	6	6
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	12	12	-	24
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	405	450	-	855
606.0300	RI PRAP HEAVY	CY	122	123	-	245
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	95	95	-	190
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	-	-	4	4
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	39	39	-	78
645.0120	GEOTEXTILE TYPE HR	SY	245	245	-	490
SPV.0195.01	SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR	TON	58	58	-	116
	NON-BID ITEMS					
	PREFORMED FILLER	SI ZE				1/2" & 3/4"



8

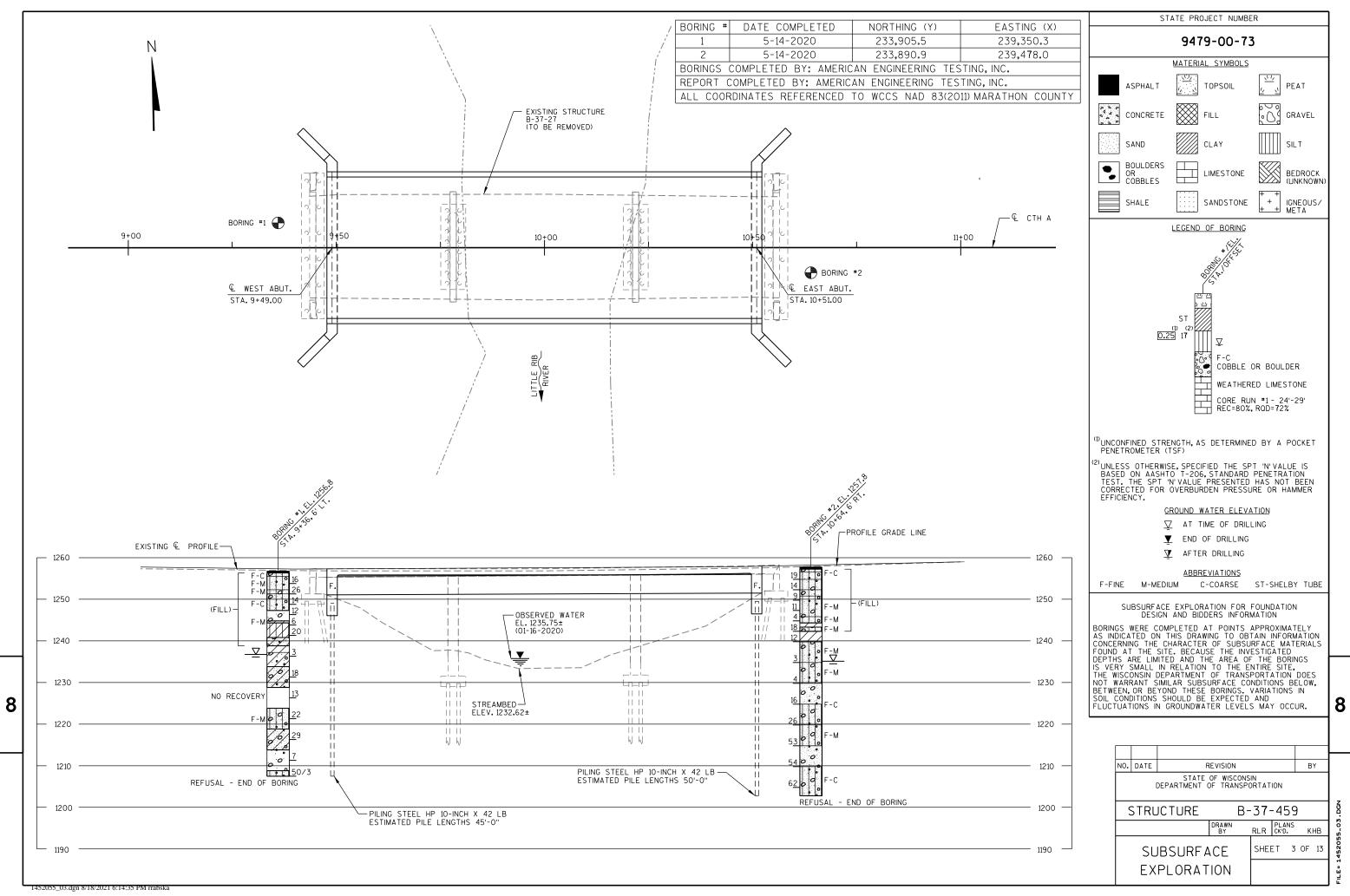


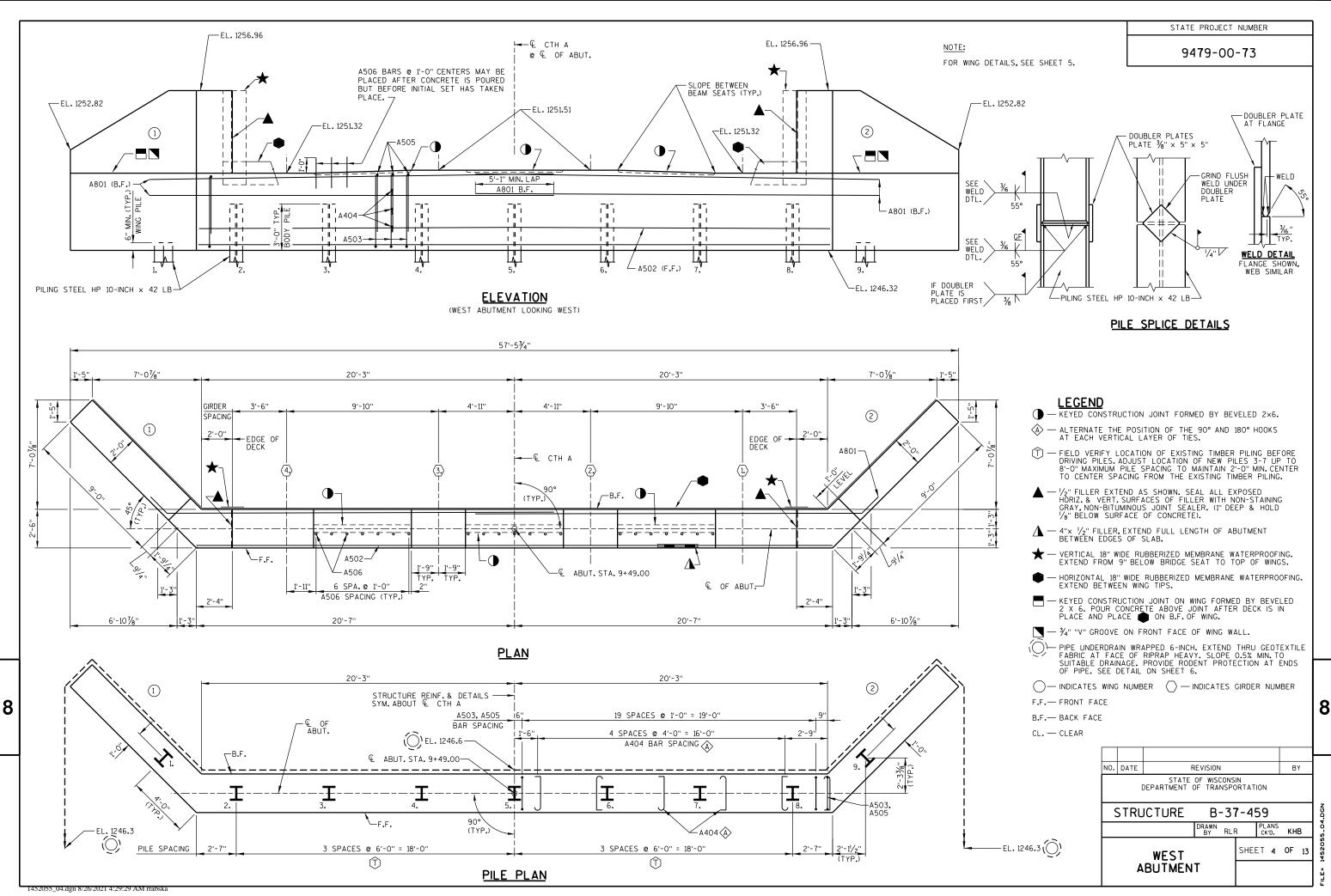
9479-00-73

DO NOT PLACE FILL ABOVE 3'-O" FROM THE BOTTOM OF ABUTMENT UNTIL THE SUPERSTRUCTURE IS IN PLACE.

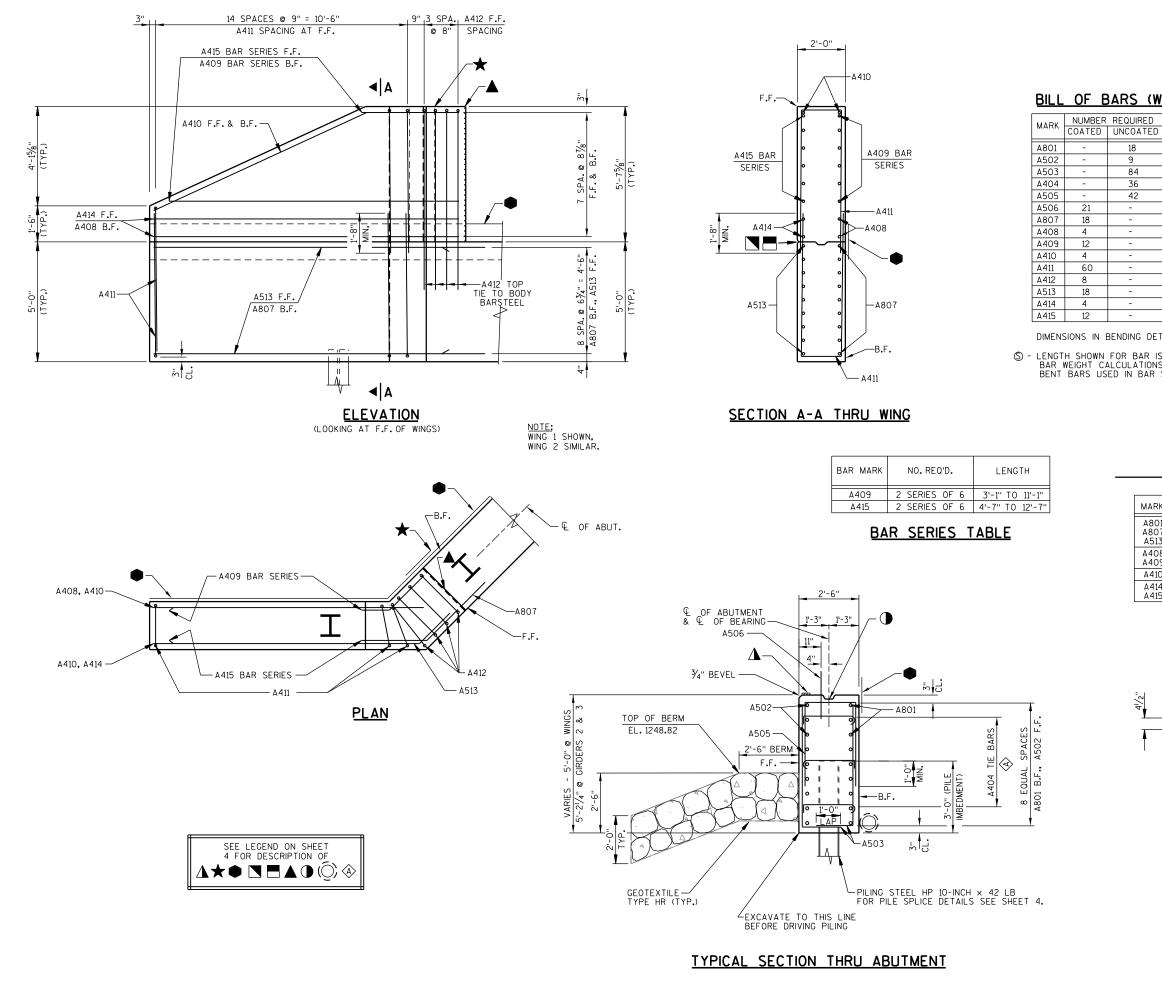
THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES" FOR THE ABUTMENTS.

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE INSIDE FACES, THE TOP FACES, AND THE ENDS OF THE PARAPETS.





1452(8/26

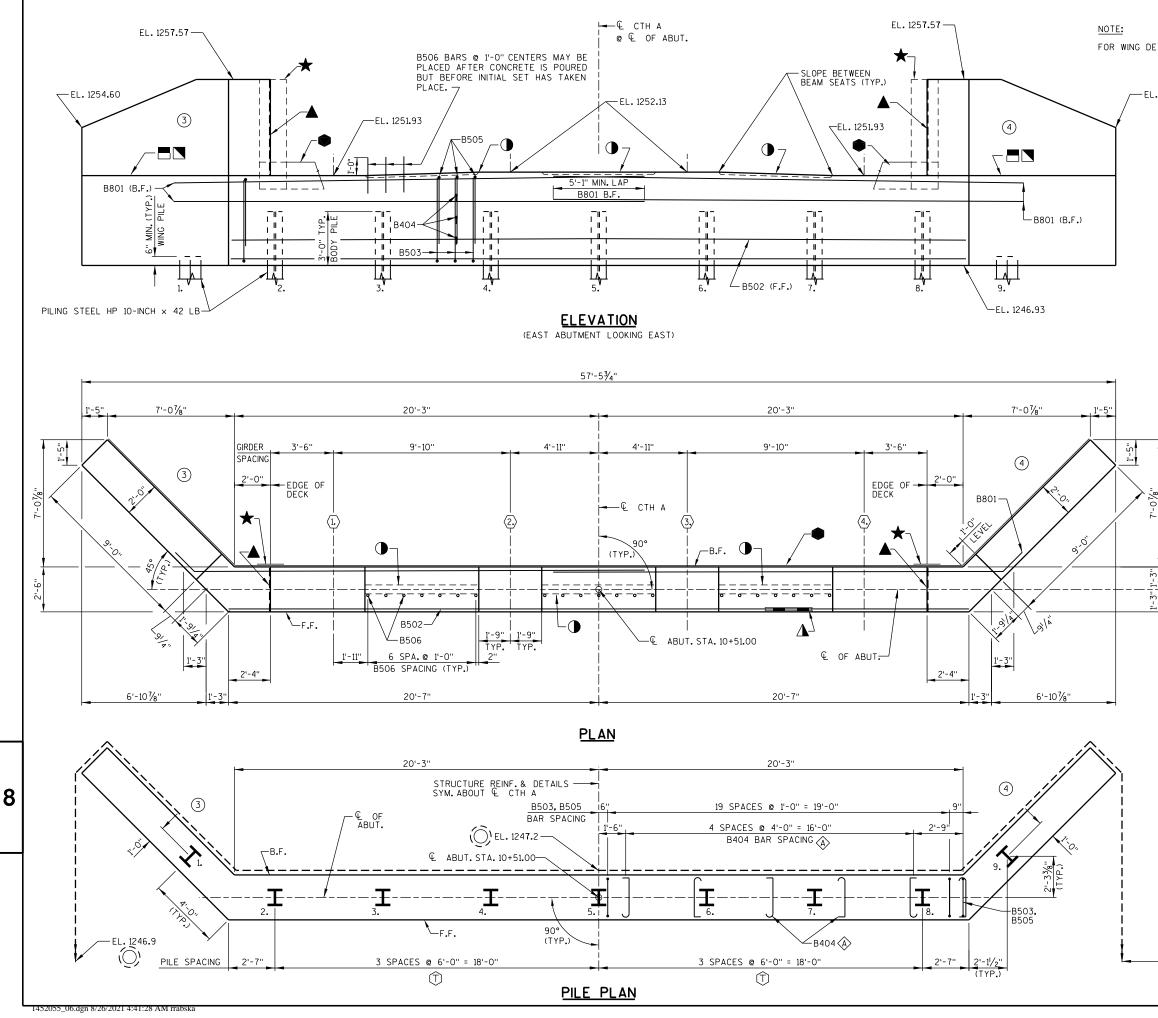


STATE PROJECT NUMBER

9479-00-73

UNCOATED 2.605 LBS. COATED 1.825 LBS BAR SERIES LENGTH BENT LOCATION 26'-5" Х ABUTMENT BODY - B.F. - HORIZ. 41'-0'' ABUTMENT BODY - F.F. - HORIZ. ABUTMENT BODY - F.F. & B.F. - VERT. 6'-0" Х 3'-0" Х ABUTMENT BODY - TIES - HORIZ. 8'-1" ABUTMENT BODY - TOP - VERT. Х ABUTMENT BODY - TOP DOWELS - VERT. 2'-0" 14'-3" WINGS - B.F. - HORIZ. Х 11'-8'' Х WINGS - B.F. - HORIZ. 7'-1" Х WINGS - B.F. - HORIZ. S WINGS - F.F. & B.F. - TOP - HORIZ. 12'-2" Х WINGS - F.F. & B.F. - VERT. 13'-6" Х 17'-0" Х WINGS - F.F. & B.F. - VERT. 12'-8" WINGS - F.F. - HORIZ. Х WINGS - F.F. - HORIZ. 13'-3" Х 8'-7" WINGS - F.F. - HORIZ. Х S DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR. S - LENGTH SHOWN FOR BAR IS AN AVERAGE AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. BENT BARS USED IN BAR SERIES TABLE SHALL BE BENT AFTER CUTTING. MARK Α B 1'-7'' A801 A807 1'-6'' 45° <u>A503</u> A513 A408 A409 1'-10'' 45° 2'-5" 25° A410 A414 A415 2'-0" 45° D MARK С D A505 3'-1" 2'-2" <u>A404</u> A411 6'-0" 1'-8'' STD. 180° HOOK A412 7'-6" 2'-2" 8 NO. DATE REVISION ΒY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-37-459 DRAWN BY RLR PLANS CK'D. кнв WEST ABUTMENT DETAILS 14520 8/30/ SHEET 5 OF 13 FILE= DATE=

BILL OF BARS (WEST ABUTMENT)



FOR WING DETAILS, SEE SHEET 7.

-EL.1254.60

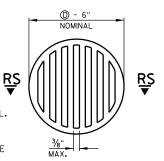
STATE PROJECT NUMBER

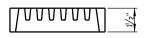
9479-00-73



ORIENT SHIELD SO SLOTS ARE VERTICAL.

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OP MOPE THE PIPE COUPLING WITH TWO OR MORE NO. 10 × 1-INCH STAINLESS STEEL SHEET METAL SCREWS. THE RODENT SHELD, PIPE COUPLING AND SCREWS, SHALL BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".





SECTION RS-RS

RODENT SHIELD

D - DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

<u>LEGEND</u>

- KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2×6. $\langle \! A \! \rangle$ — Alternate the position of the 90° and 180° hooks AT EACH VERTICAL LAYER OF TIES. T — FIELD VERIFY LOCATION OF EXISTING TIMBER PILING BEFORE DRIVING PILES. ADJUST LOCATION OF NEW PILES 3-7 UP TO 8'-0" MAXIMUM PILE SPACING TO MAINTAIN 2'-0" MIN. CENTER DRIVING PILES DRIVING FUNCTION TO THE POLY OF THE PILE OF THE TO CENTER SPACING FROM THE EXISTING TIMBER PILING. — 1/2" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP & HOLD 1/8" BELOW SURFACE OF CONCRETE). - VERTICAL 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. ★ EXTEND FROM 9" BELOW BRIDGE SEAT TO TOP OF WINGS. - HORIZONTAL 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. Ð EXTEND BETWEEN WING TIPS. ─ KEYED CONSTRUCTION JOINT ON WING FORMED BY BEVELED 2 X 6. POUR CONCRETE ABOVE JOINT AFTER DECK IS IN PLACE AND PLACE ● ON B.F. OF WING. - \mathbb{N} — $\frac{3}{4}$ " "V" groove on front face of wing wall.

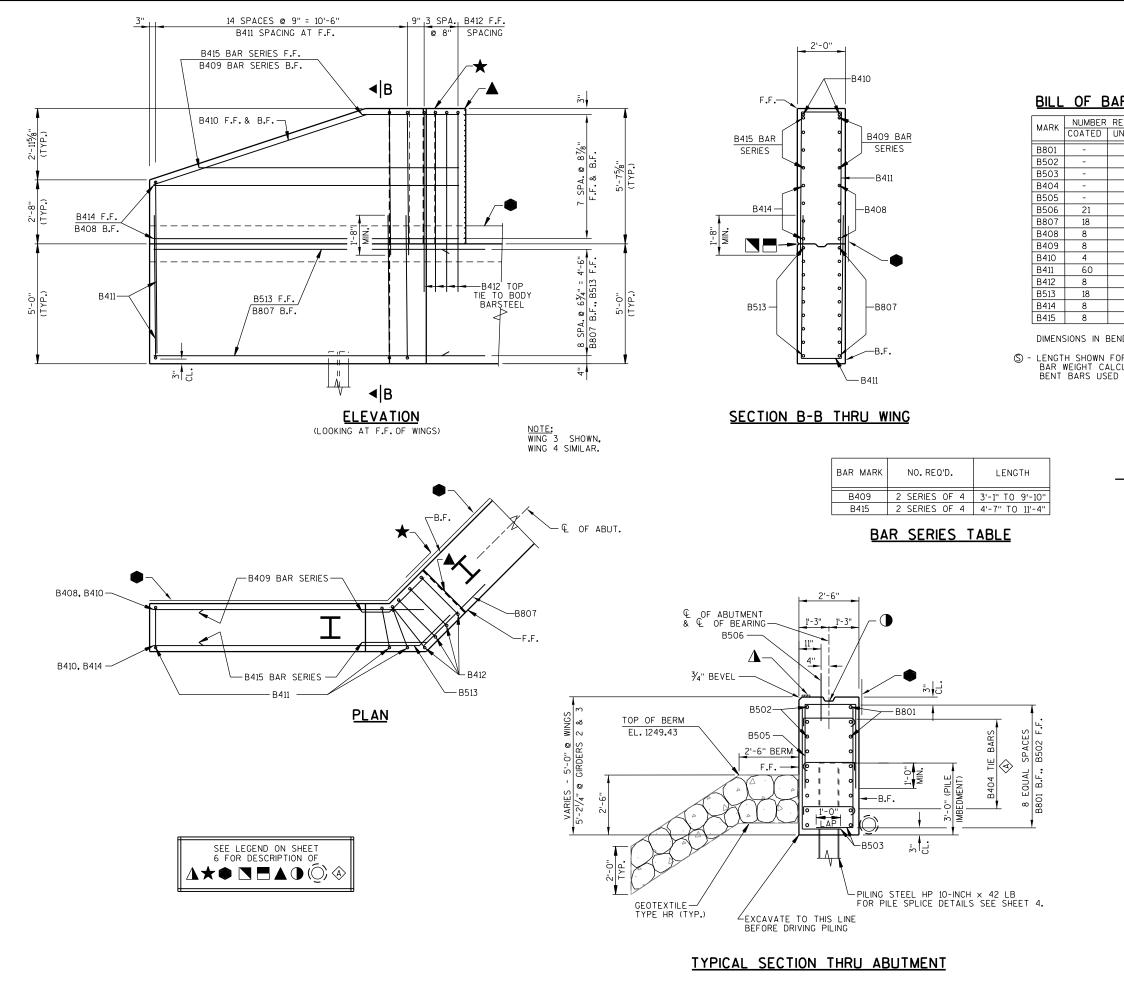
PIPE UNDERDRAIN WRAPPED 6-INCH. EXTEND THRU GEOTEXTILE FABRIC AT FACE OF RIPRAP HEAVY. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. PROVIDE RODENT PROTECTION AT ENDS OF PIPE. SEE DETAIL ABOVE.

 \bigcirc - INDICATES WING NUMBER \bigcirc - INDICATES GIRDER NUMBER

F.F. -- FRONT FACE

- B.F.- BACK FACE

CL. — CLEAR										
	NO. DATE REVISION BY									
		I	DEPARTMENT	OF TRANSPO	ORTAT	ION				
		STRL	JCTURE	B-3	7-4	59			06.DGN	
				DRAWN BY RLI	۲	PLANS CK'D.	кн	3	5-06	2021
-EL. 1246.9	EAST ABUTMENT					13	1452055	8/26/2021		
								DATE=		



STATE PROJECT NUMBER

9479-00-73

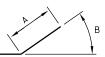
UNCOATED 2.605 LBS. COATED 1.840 LBS.

BILL OF BARS (EAST ABUTMENT)

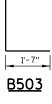
EQUIRED NCOATED	LENGTH	BENT	BAR SERIES	LOCATION
18	26'-5''	Х		ABUTMENT BODY - B.F HORIZ.
9	41'-0''			ABUTMENT BODY - F.F HORIZ.
84	6'-0"	X		ABUTMENT BODY - F.F. & B.F VERT.
36	3'-0"	X		ABUTMENT BODY - TIES - HORIZ.
42	8'-1"	X		ABUTMENT BODY - TOP - VERT.
-	2'-0"			ABUTMENT BODY - TOP DOWELS - VERT.
-	14'-3"	X		WINGS - B.F HORIZ.
-	11'-8''	X		WINGS - B.F HORIZ.
-	6'-6"	X	S	WINGS - B.F HORIZ.
-	11'-8''	X		WINGS - F.F. & B.F TOP - HORIZ.
-	13'-6"	X		WINGS - F.F. & B.F VERT.
-	17'-0''	X		WINGS - F.F. & B.F VERT.
-	12'-8"	Х		WINGS - F.F HORIZ.
-	13'-3"	Х		WINGS - F.F HORIZ.
-	8'-0"	X	S	WINGS - F.F HORIZ.
				•

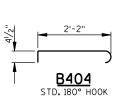
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

S - LENGTH SHOWN FOR BAR IS AN AVERAGE AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. BENT BARS USED IN BAR SERIES TABLE SHALL BE BENT AFTER CUTTING.



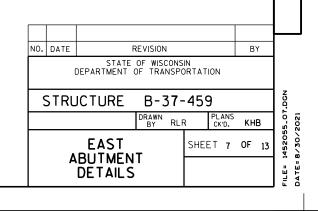
MARK	А	В
B801 B807 B513	1'-6''	45°
B408 B409	1'-10''	45°
B410	2'-5"	18°
B414 B415	2'-0"	45°

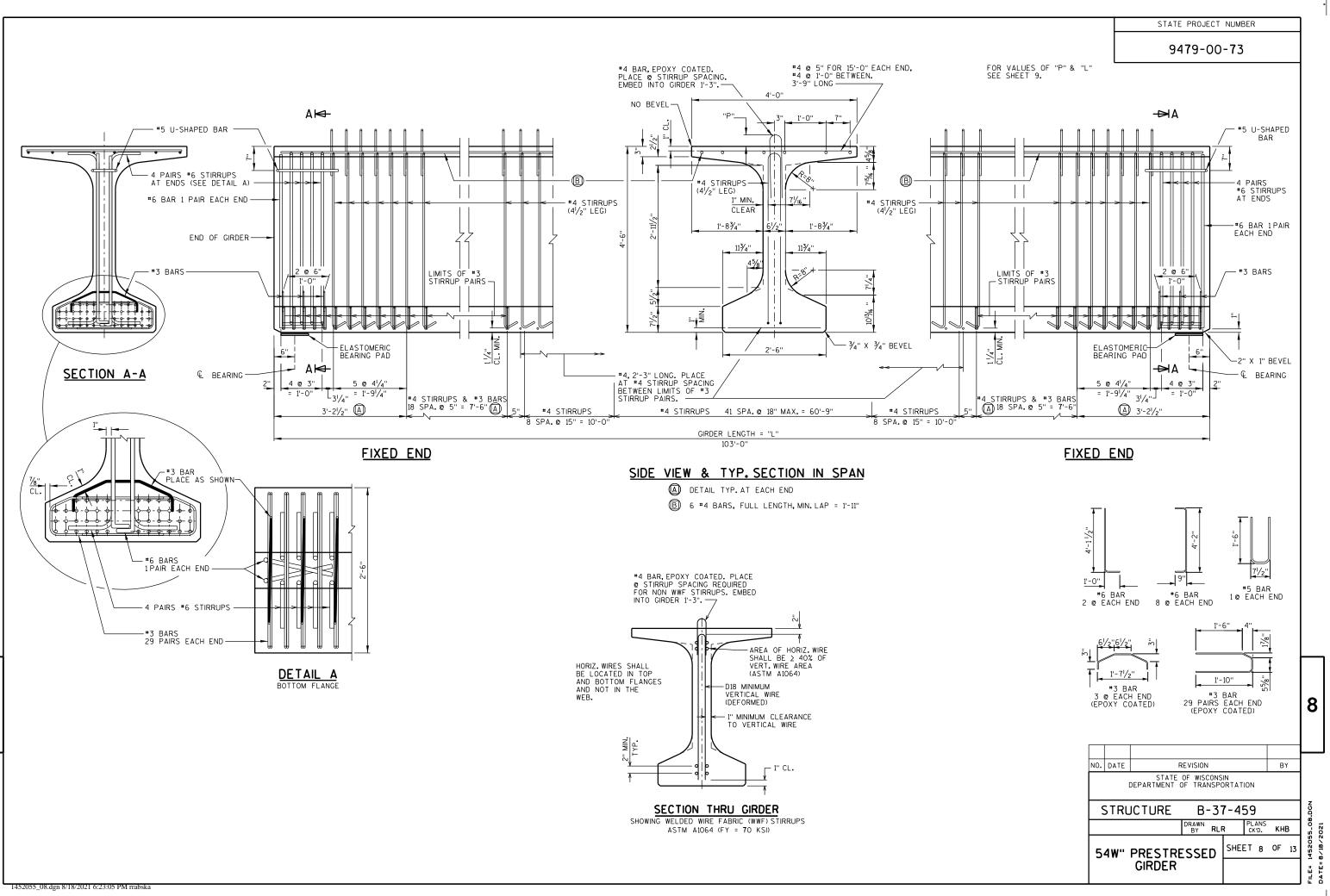




MARK	С	D
B505	3'-1''	2'-2"
B411	6'-0''	1'-8"
B412	7'-6''	2'-2"

D





GIRDER NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 15" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 15" OF THE TOP FLANGE.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECT. 503.3.3 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

STRANDS SHALL BE FLUSH WITH END OF GIRDER.FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER.FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

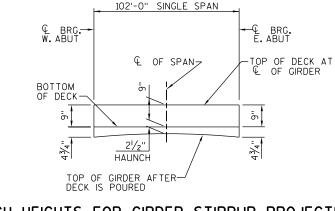
ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

AN EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A1064 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON ACCEPTANCE OF THE STRUCTURES MAINTENANCE SECTION. IF USED, WWF SUBSTITUTION DETAILS SHALL BE SUBMITTED ELECTRONICALLY TO THE WISDOT FABRICATION LIBRARY AND ACCEPTED PRIOR TO SHOP DRAWING SUBMITTAL.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET 13.



HAUNCH HEIGHTS FOR GIRDER STIRRUP PROJECTION NOTE: HAUNCH HEIGHTS ARE BASED ON THE TIME DEPENDENT

VARIABLE "PRESTRESSED CAMBER" ASSUMING NORMAL CONSTRUCTION SCHEDULING.

TOP OF GIRDER AFTER

DECK AND PARAPETS

ARE POURED.

DEAD LOAD DEFL.-

РТ. ЪЧ ЪЧ. FT.

2/10

2

M

4/10 2

2

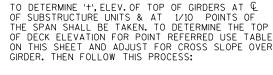
DEAD LOAD DEFLECTION DIAGRAM

Ъ

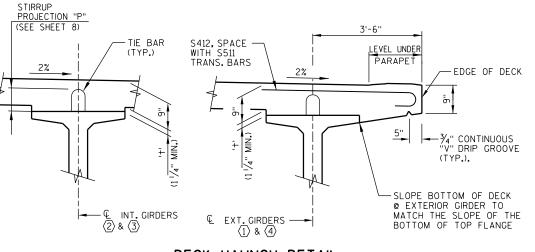
1/10

TOP OF GIRDER BEFORE

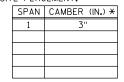
DECK IS POURED.



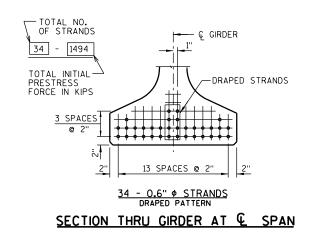
- TOP OF DECK ELEV. AT FINAL GRADE - TOP OF GIRDER ELEVATION + DEAD LOAD DEFLECTION - DECK THICKNESS
- ------= HAUNCH HEIGHT '+'



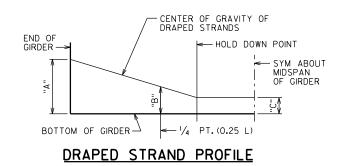
* THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.



THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS. THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.



1452055_09.dgn 8/17/2021 11:46:00 AM rrabska



TOP OF DECK ELEVATIONS @ 4 OF GIRDERS

		SOUTH	C/L	C/L	C/L	C/L	C/L	NORTH
	SPAN	DECK	GIRDER	GIRDER	CTH A	GIRDER	GIRDER	DECK
LOCATION	POINT	EDGE	4	3		2	1	EDGE
W. ABUT.	1	1256.96	1257.01	1257.20	1257.30	1257.20	1257.01	1256.96
	1.1	1257.01	1257.05	1257.25	1257.35	1257.25	1257.05	1257.01
	1.2	1257.06	1257.10	1257.30	1257.40	1257.30	1257.10	1257.06
	1.3	1257.11	1257.16	1257.35	1257.45	1257.35	1257.16	1257.11
	1.4	1257.16	1257.21	1257.40	1257.50	1257.40	1257.21	1257.16
	1.5	1257.21	1257.26	1257.45	1257.55	1257.45	1257.26	1257.21
	1.6	1257.26	1257.31	1257.51	1257.60	1257.51	1257.31	1257.26
	1.7	1257.32	1257.36	1257.56	1257.66	1257.56	1257.36	1257.32
	1.8	1257.37	1257.41	1257.61	1257.71	1257.61	1257.41	1257.37
	1.9	1257.45	1257.50	1257.69	1257.79	1257.69	1257.50	1257.45
E. ABUT.	2	1257.57	1257.62	1257.81	1257.91	1257.81	1257.62	1257.57

★ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

	GIRDER DATA																						
		GIRDER			DE	AD LO	DAD DI	EFL. (IN.)			CONC.		"P" (IN.)			DRAPE	ED PA	TTERN			UNDRA
SPAN	GIRDER	LENGTH										STRGTH. f'c	1 13 1 73	MID 1/3	END ¹ /3	DIA.OF	TOTAL	f'ci		(N.)		TO
0. /	BINDEN	(FEET)	1/10	⅔10	³∕10	⁴ ⁄10	5⁄10	⁶ ⁄10	1/10	‱%10	%10	(P.S.I.)	OF GIRDER	OF GIRDER	OF GIRDER	(IN.)	NO.OF STRANDS	(P.S.I.) *	''A''	"B" MIN.	"B" MAX.	"C"	NO.
1	1&4	103'-0"	0.5	0.9	1.2	1.4	1.5	1.4	1.2	0.9	0.5	8000	91/2"	71/4"	91/2"	0.6	34	6800	49	16	18	5	
1	2&3	103'-0"	0.5	1.0	1.3	1.6	1.6	1.6	1.3	1.0	0.5	8000	91/2"	71/4"	91/2"	0.6	34	6800	49	16	18	5	

8

IF 11/4" MINIMUM HAUNCH HEIGHT '+'AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE THE PLAN PROFILE BY MORE THAN $\frac{1}{2}$ " OR IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

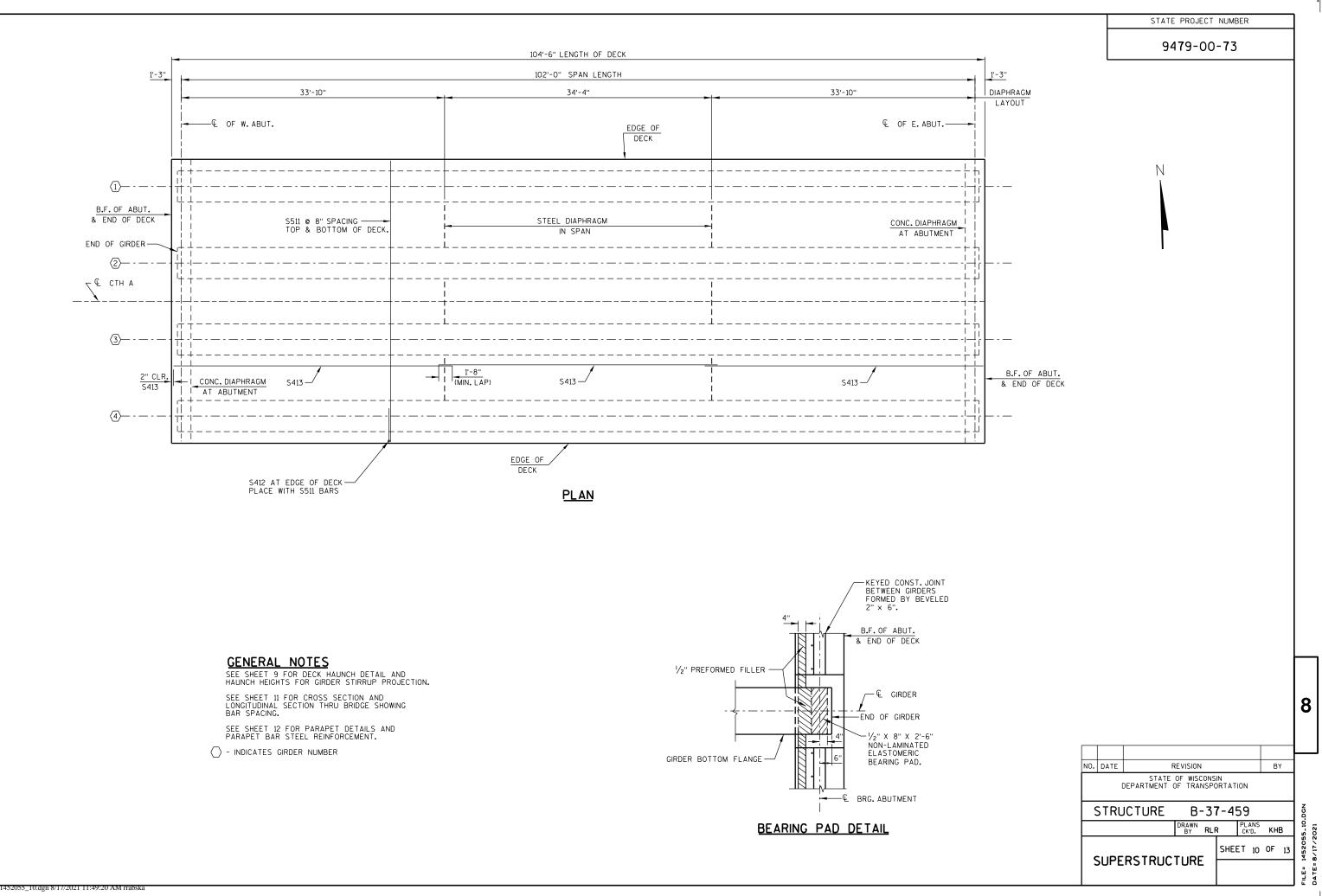
STATE PROJECT NUMBER

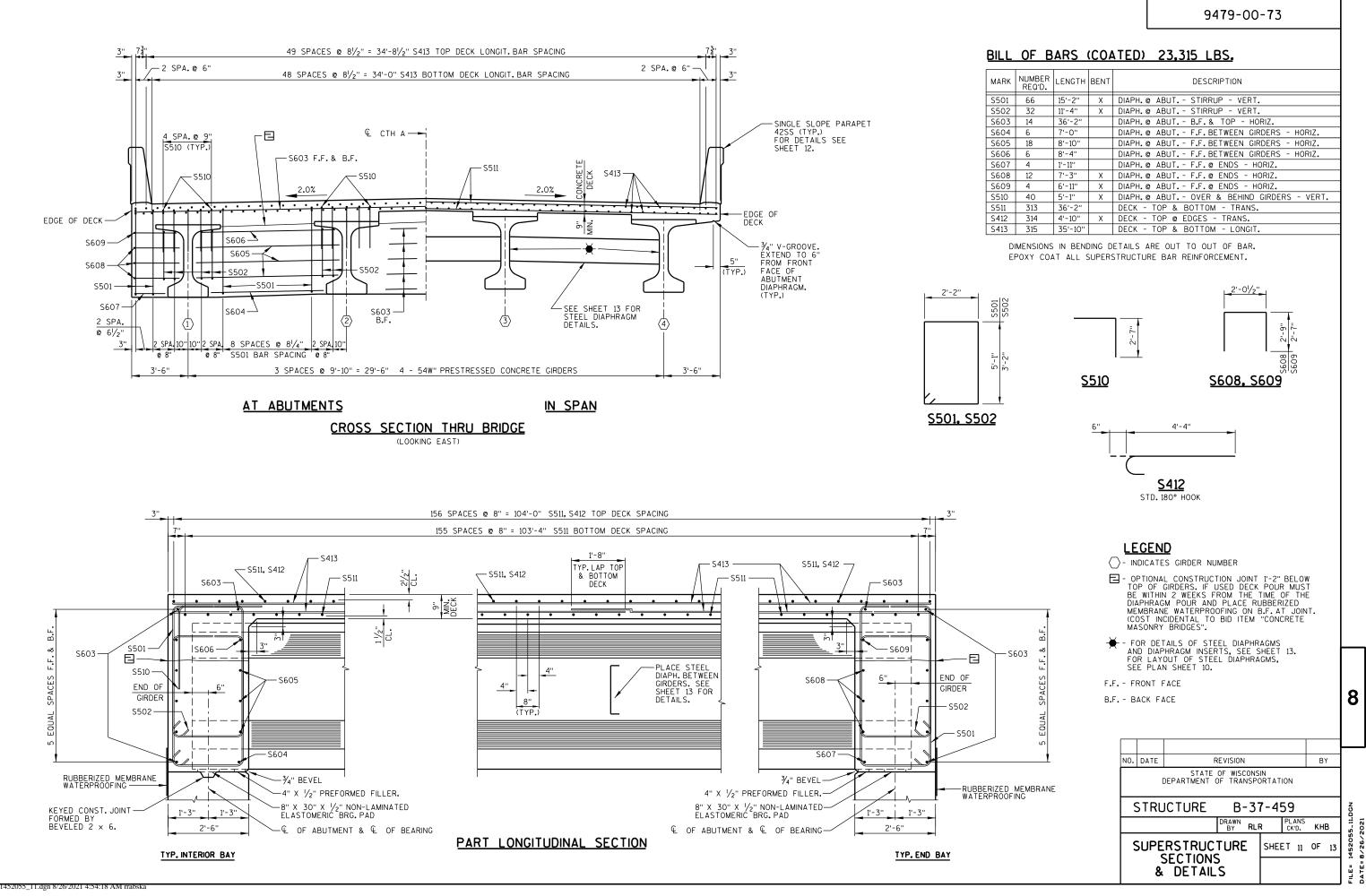
9479-00-73

NOTE: AN AVERAGE HAUNCH ("+") OF 31/2" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES."

DECK HAUNCH DETAIL

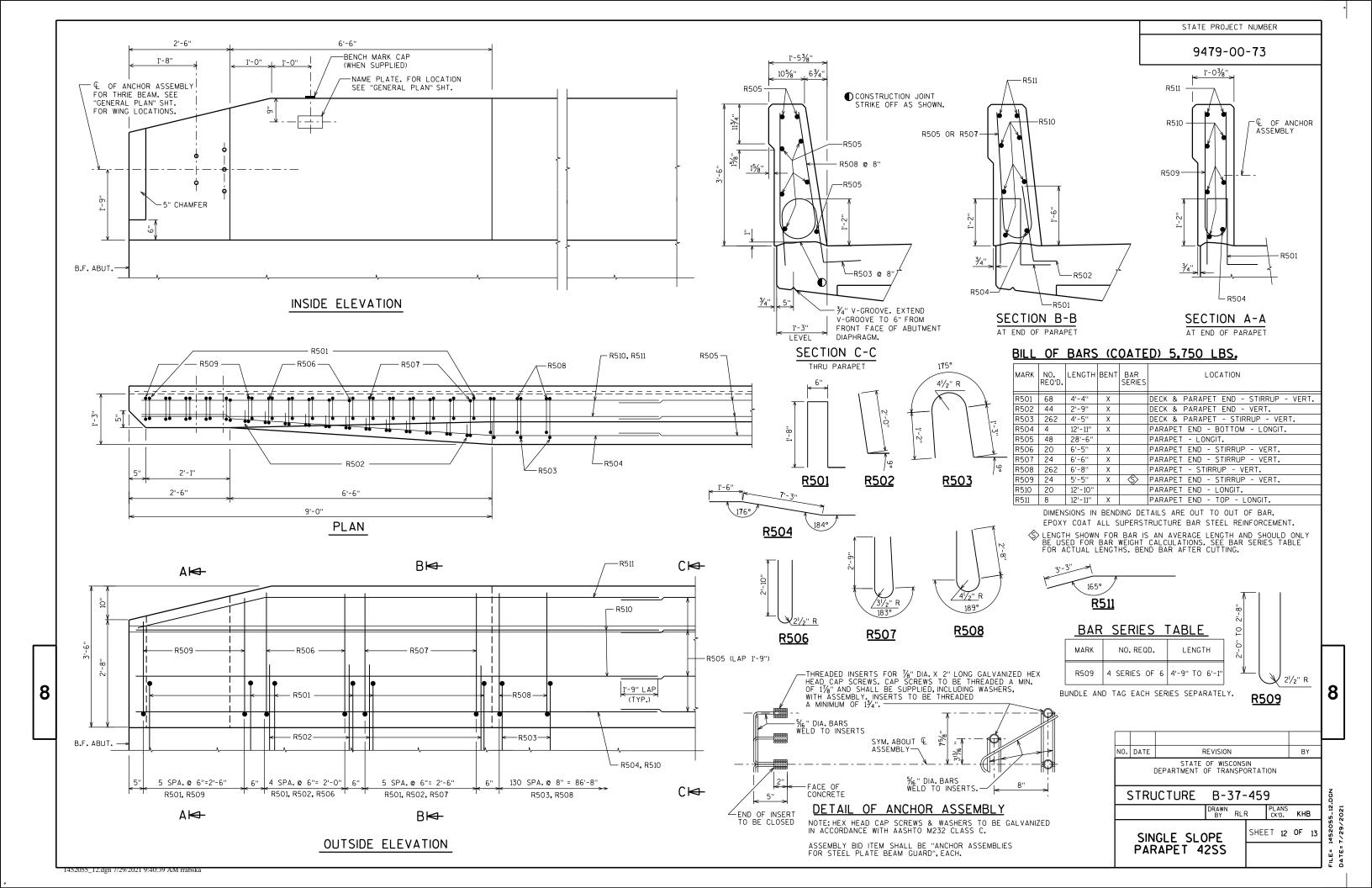
								8	
RAPED P	ATTERN	N	D. DATE	1	REVISION		BY		
OTAL O. OF RANDS	f'ci (P.S.I.)			STATE DEPARTMENT	OF WISCONS OF TRANSP				
-	-		STRL	JCTURE	B-3	7-459		09.DGN	
-	-				DRAWN BY RL	R PLAN CK'D.	^s кнв	5_09.	
			GIRE	PRESTRI DER & DE MING DE)ECK	SHEET 9	OF 13	FILE= 1452055_0 DATE= 8/17/2021	

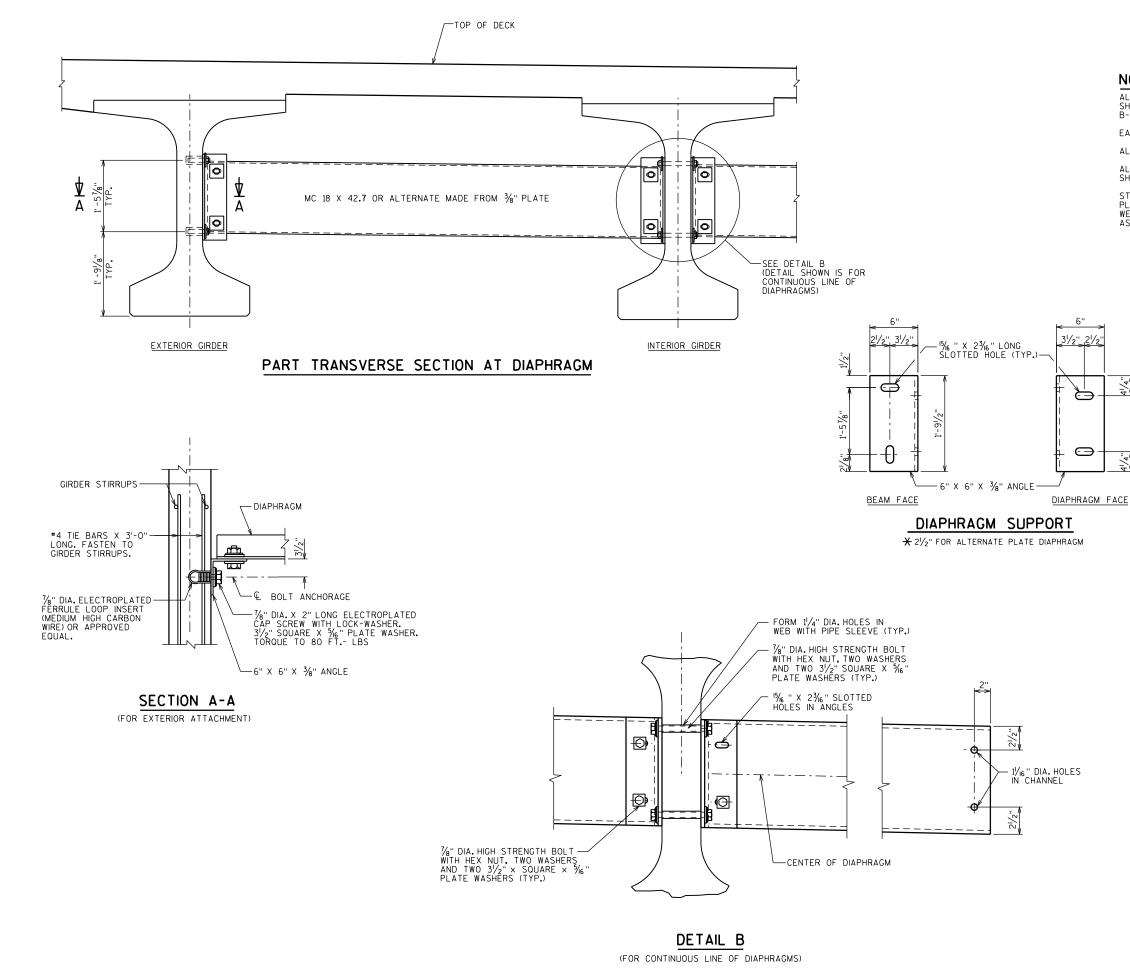




STATE PROJECT NUMBER

RK	NUMBER REQ'D.	LENGTH	BENT	DESCRIPTION
01	66	15'-2"	Х	DIAPH.@ ABUT STIRRUP - VERT.
)2	32	11'-4''	Х	DIAPH.@ ABUT STIRRUP - VERT.
)3	14	36'-2"		DIAPH.@ ABUT B.F.& TOP - HORIZ.
)4	6	7'-0"		DIAPH.@ ABUT F.F. BETWEEN GIRDERS - HORIZ.
)5	18	8'-10''		DIAPH.@ ABUT F.F. BETWEEN GIRDERS - HORIZ.
)6	6	8'-4''		DIAPH.@ ABUT F.F. BETWEEN GIRDERS - HORIZ.
)7	4	1'-11''		DIAPH.@ ABUT F.F.@ ENDS - HORIZ.
8	12	7'-3"	Х	DIAPH.@ ABUT F.F.@ ENDS - HORIZ.
)9	4	6'-11"	Х	DIAPH.@ ABUT F.F.@ ENDS - HORIZ.
0	40	5'-1''	Х	DIAPH.@ ABUT OVER & BEHIND GIRDERS - VERT.
1	313	36'-2"		DECK - TOP & BOTTOM - TRANS.
2	314	4'-10"	Х	DECK - TOP @ EDGES - TRANS.
3	315	35'-10"		DECK - TOP & BOTTOM - LONGIT.





STATE PROJECT NUMBER

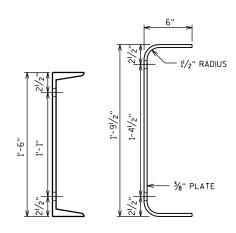
9479-00-73

NOTES

- ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-37-459", EACH.
- EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.
- ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.
- ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.
- STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS $^{\prime}\!\!/_4$ TURN, UNLESS NOTED OTHERWISE, HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.

<u>*</u>

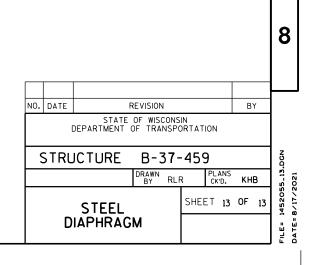
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<u>MC18X42.7</u>

ALTERNATE DIAPHRAGM

SECTION THRU DIAPHRAGM



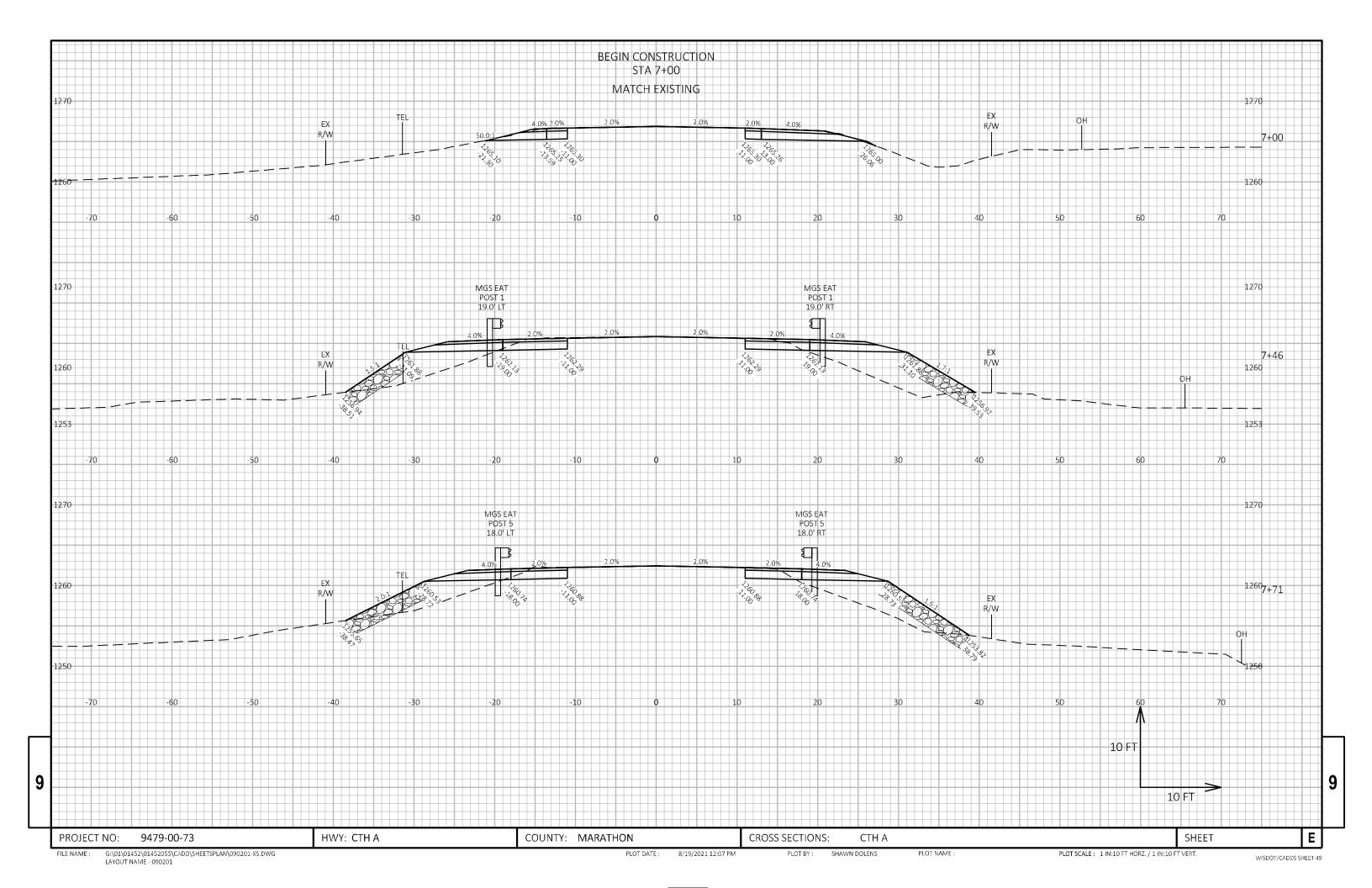
<u>Station</u>	<u>Cut</u> <u>Area</u> (Sq.ft.)	<u>Cut</u> <u>Volume</u> (Cu.yd.)	<u>Reusable</u> <u>Volume</u> (Cu.yd.)	<u>Fill</u> <u>Area</u> (Sq.ft.)	<u>Fill</u> <u>Volume</u> (Cu.yd.)	<u>Cum. Cut</u> <u>Vol.</u> (Cu.yd.)	<u>Cum. Fill</u> <u>Vol.</u> (Cu.yd.)	<u>Cum. Net</u> <u>Vol.</u> (Cu.yd.)
7+00	19.36	0	0	0.24	0	0	0	0
7+45.88	13.34	27.79	27.79	94.3	80.32	27.79	80.32	-52,53
7+70.87	12.05	11.75	11.75	84.18	82.58	39.54	162.9	-123.36
7+95.85	10.89	10.61	10.61	74.55	73.45	50.15	236.35	-186.2
8+25	11.14	11.89	11.89	54.12	69.45	62.03	305.8	-243.77
8+50	11.55	10.5	10.5	33.46	40.54	72.54	346.34	-273.8
8+75	10.34	10.13	10.13	34.6	31.51	82.67	377.85	-295.18
8+95.50	23.67	12.91	12.91	32.75	25.57	95.58	403.42	-307.84
9+25	27.18	27.78	27.78	47.53	43.86	123.36	447.28	-323.92
9+49	27.18	24.16	24.16	47.53	42.24	147.52	489.52	- 342
10+51	37.22	0	0	41.55	0	0	0	- 342
10+75	37.22	33.08	33.08	41.55	36.93	33.08	36.93	-345.85
11+00	35.36	33.6	33.6	27.88	32.15	66.68	69.08	-348.25
11+25	13.28	22.52	22.52	23.44	23.76	89.2	92.84	-351.89
11+50	11.17	11.32	11.32	26.44	23.09	100.52	115.93	-367.3
11+75	8.57	9.14	9.14	34.69	28.3	109.66	144.23	-401.87
12+00	7.9	7.63	7.63	39.62	34.4	117.29	178.63	-463.21
12+25	8.71	7.69	7.69	37.02	35.48	124.98	214.11	-552.34
12+50	8.97	8.18	8.18	34.74	33.22	133.16	247.33	-666.51
12+75	9.04	8.34	8.34	25.08	27.69	141.5	275.02	-800.03
13+00	10.12	8.87	8.87	24.78	23.08	150.37	298.1	-947.76
13+25	12.75	10.59	10.59	37.42	28.8	160.96	326.9	-1113.7
13+54.15	12.48	13.62	13.62	61.85	53.58	174.58	380.48	-1319.6
13+79.15	11.88	11.28	11.28	86.37	68.62	185.86	449.1	-1582.84
14+04.15	14.17	12.06	12.06	85.98	79.79	197.92	528.89	-1913.81
14+25	21.91	13.93	13.93	2.32	34.1	211.85	562.99	-2264.95
14+40	21.12	11.95	11.95	1.24	0.99	223.8	563.98	-2605.13
14+50	19.67	7.55	7.55	0.43	0.31	231.35	564.29	-2938.07
				TO	TALS:	231.35	564.29	-2938.07

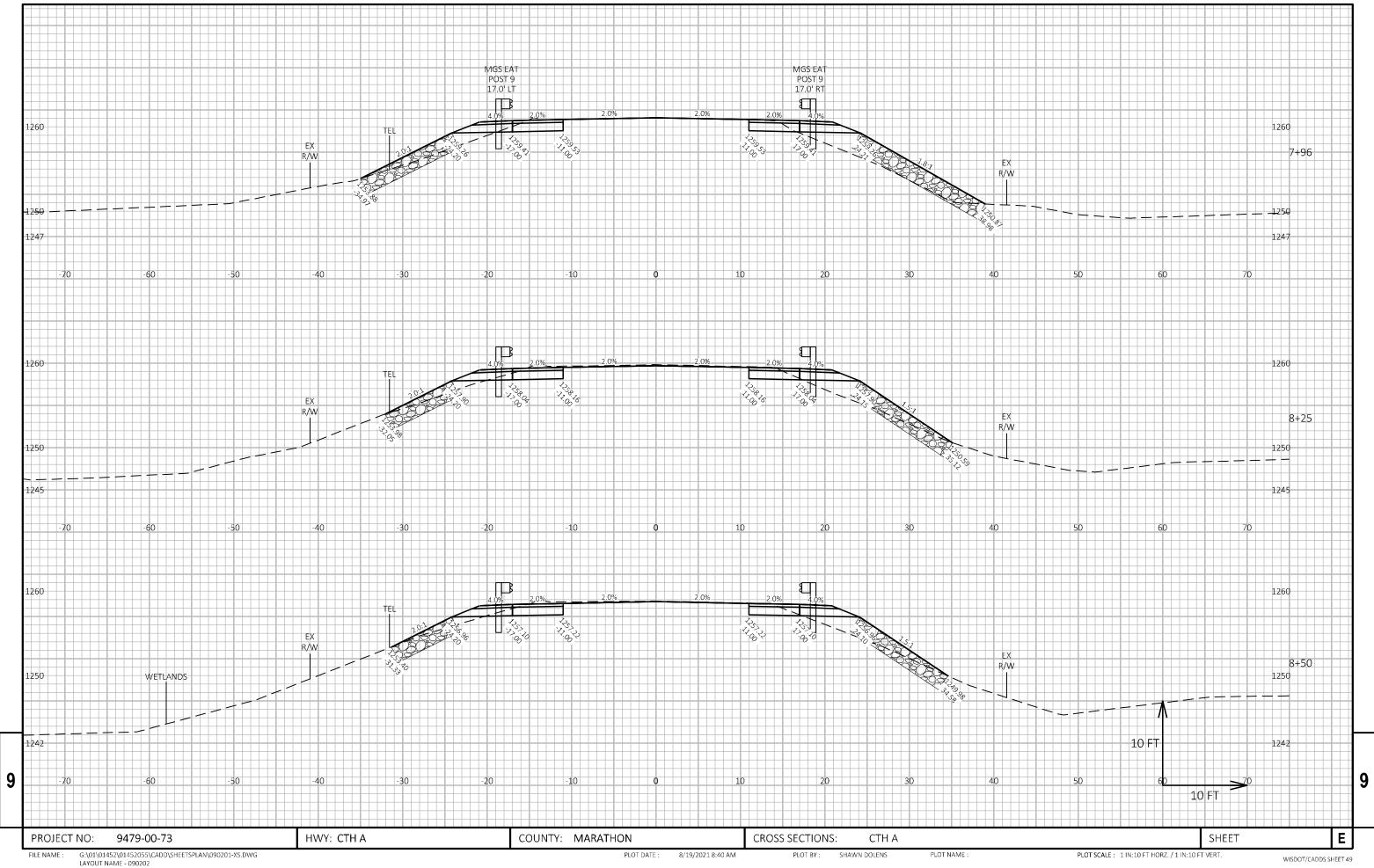
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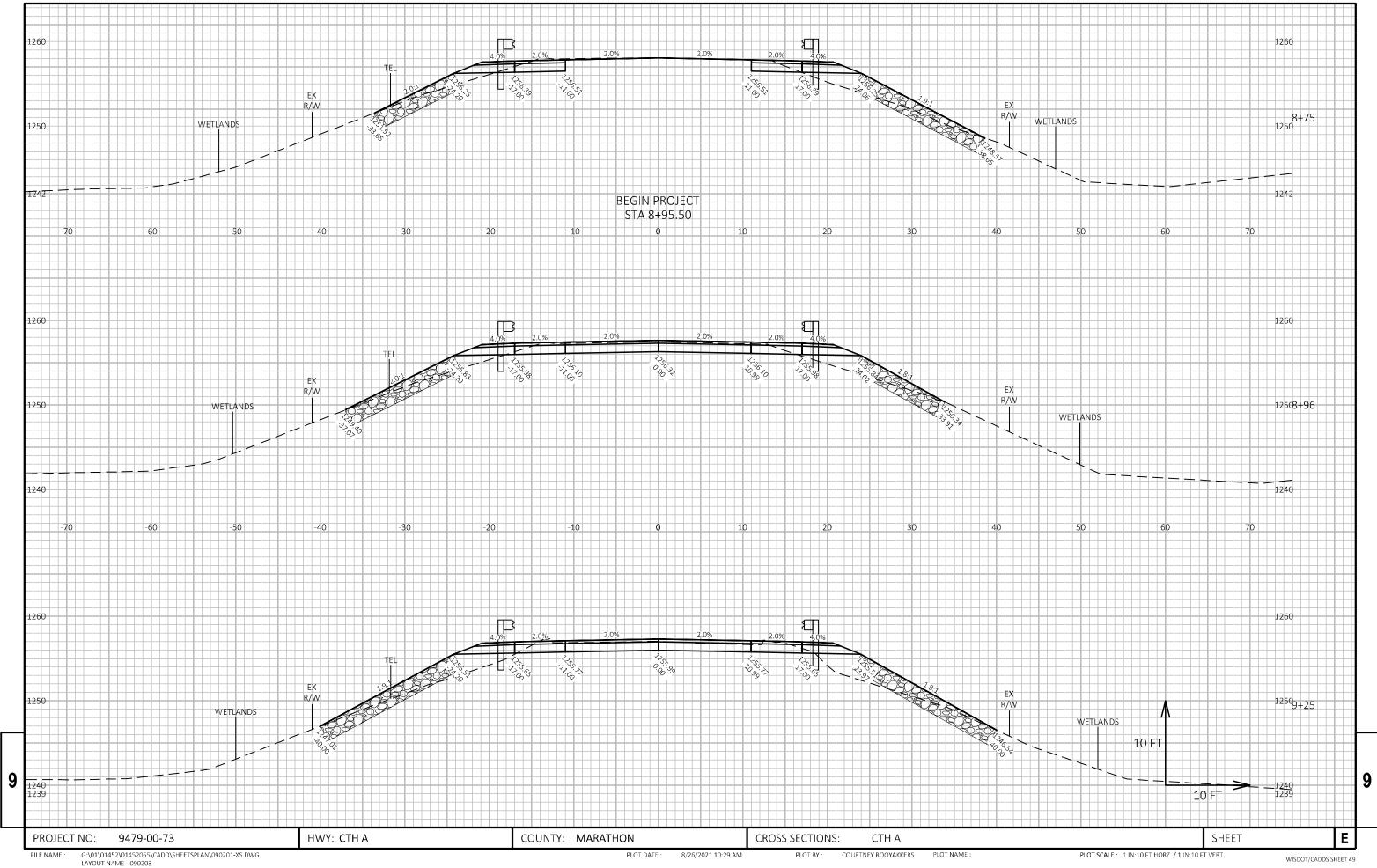
9

SHEET

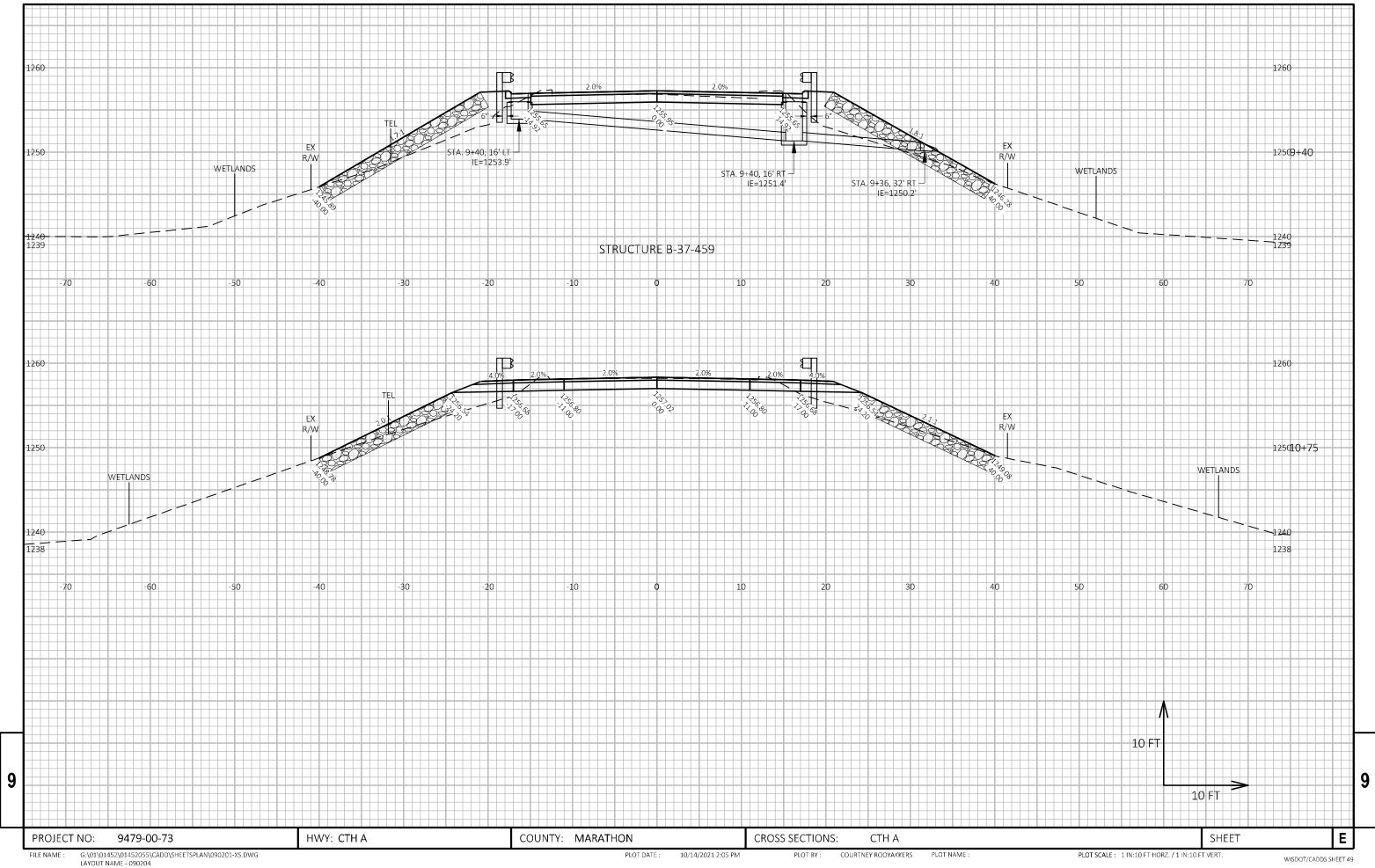
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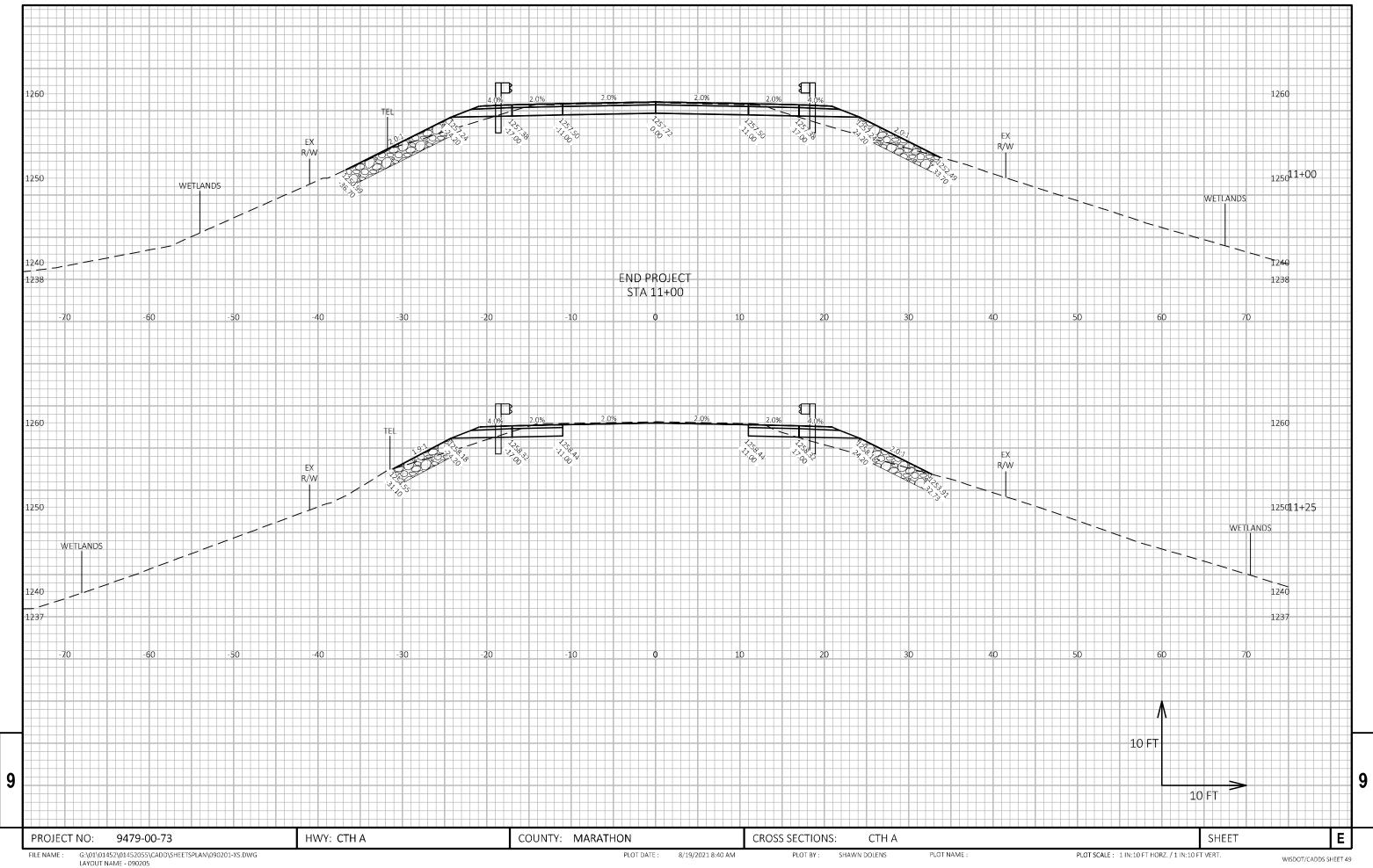


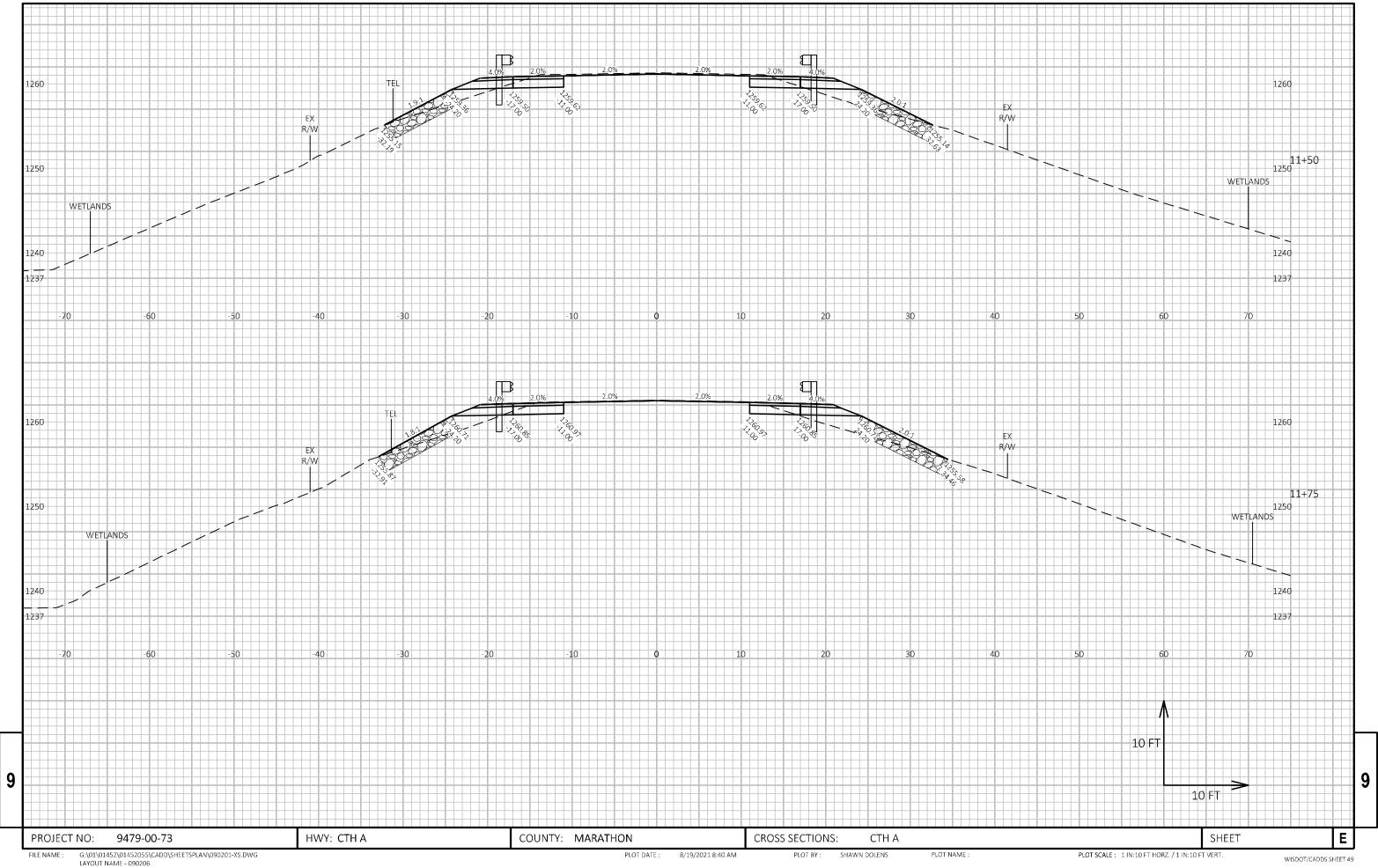


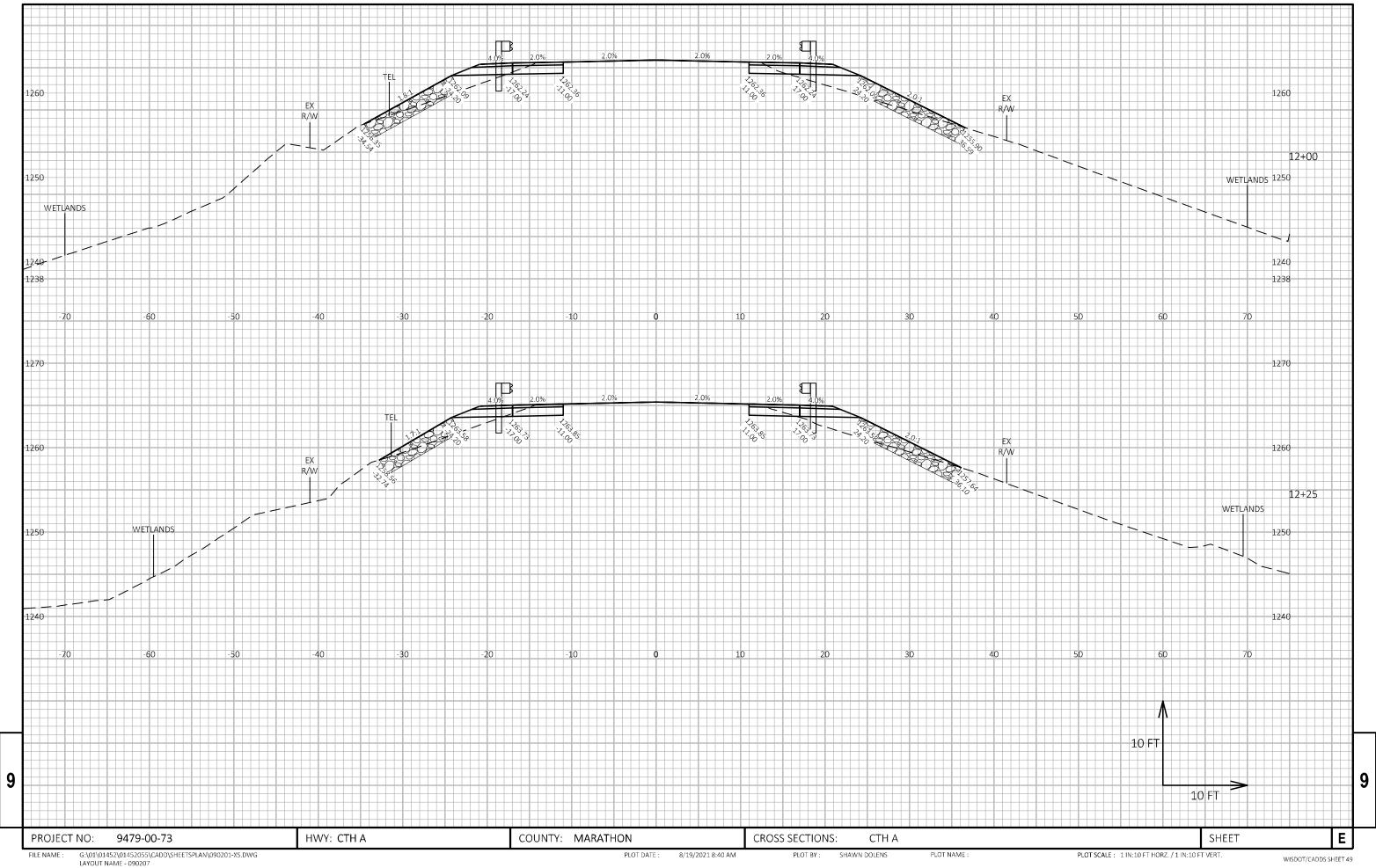


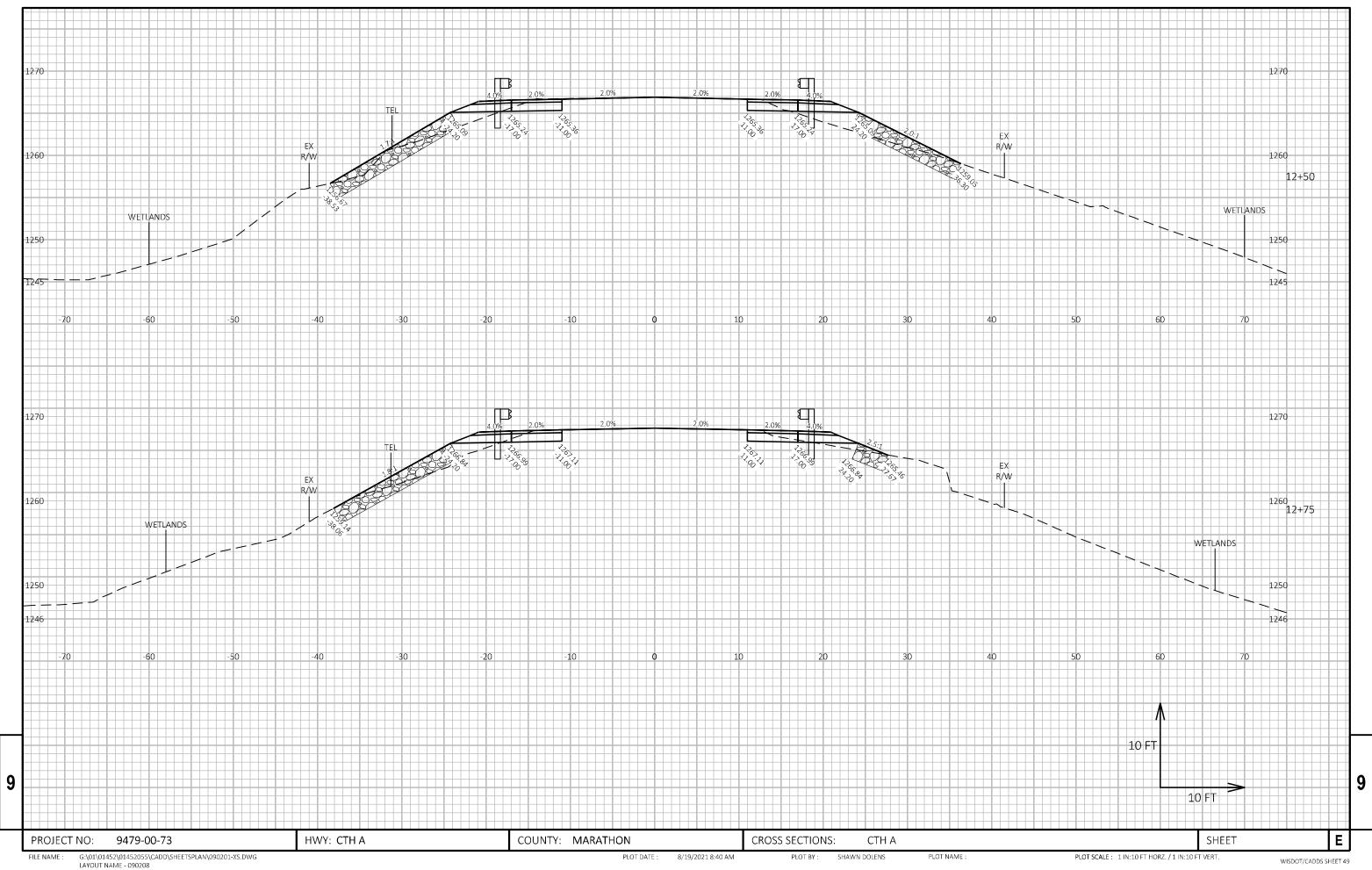
WISDOT/CADDS SHEET 49



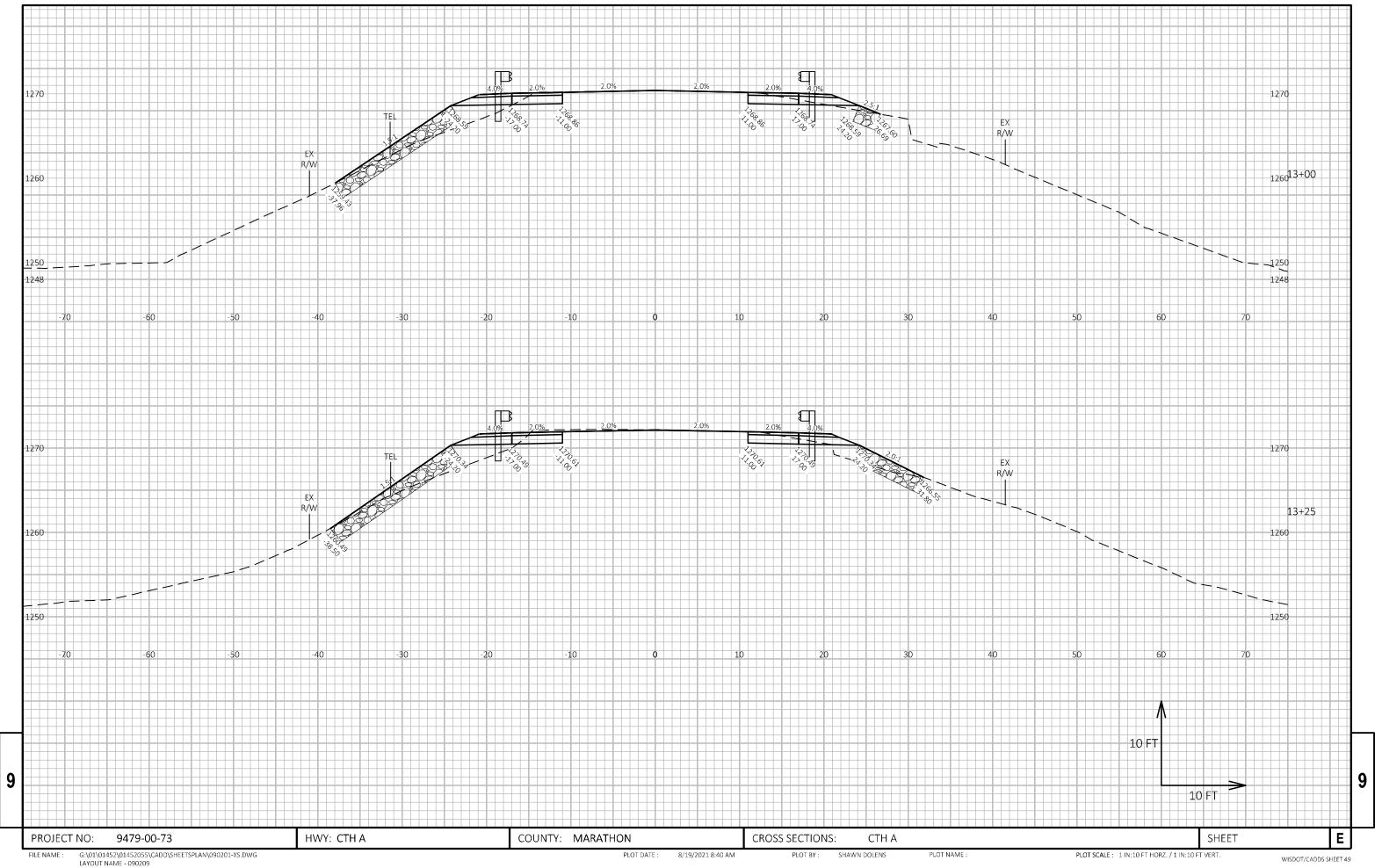


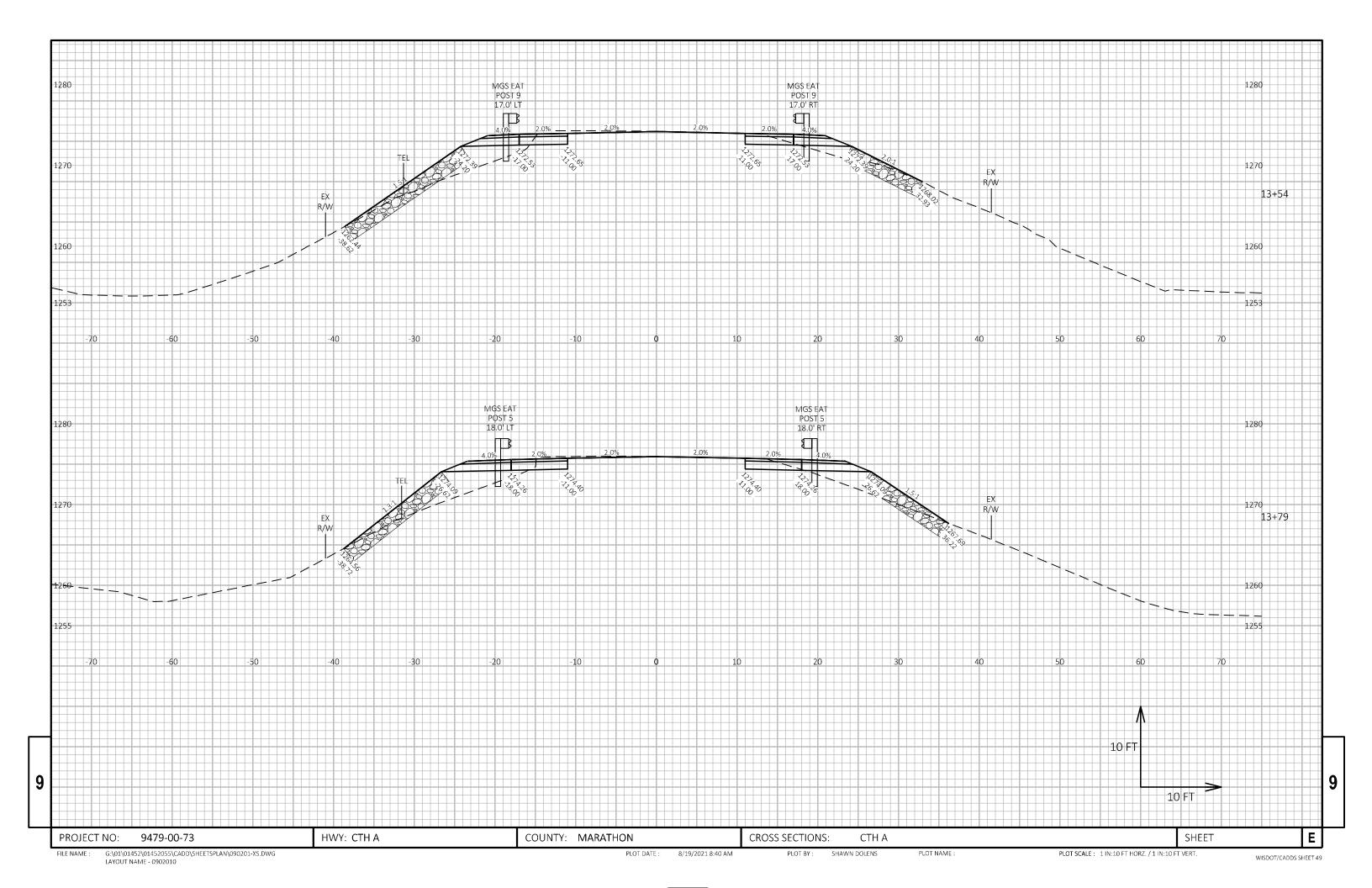


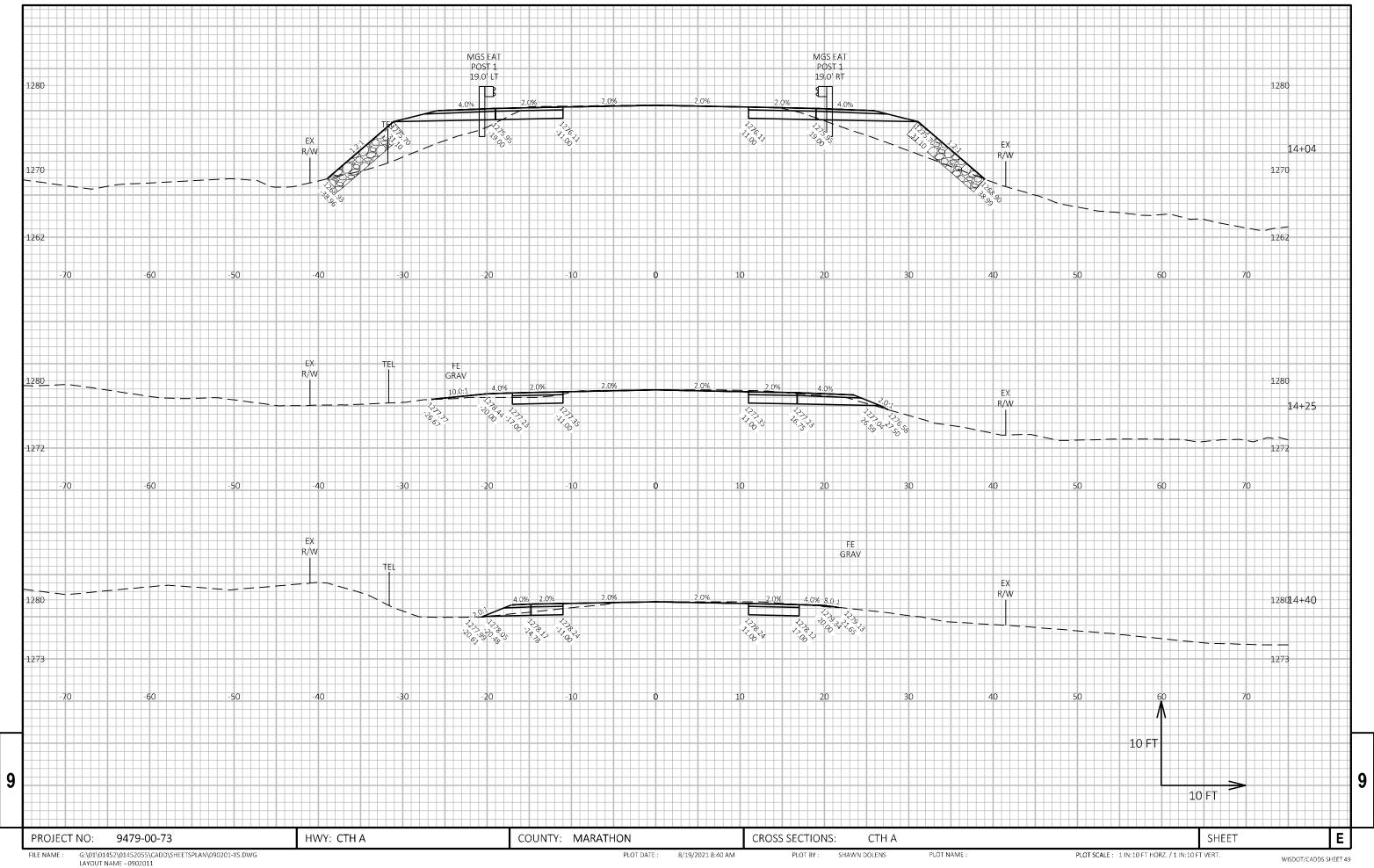


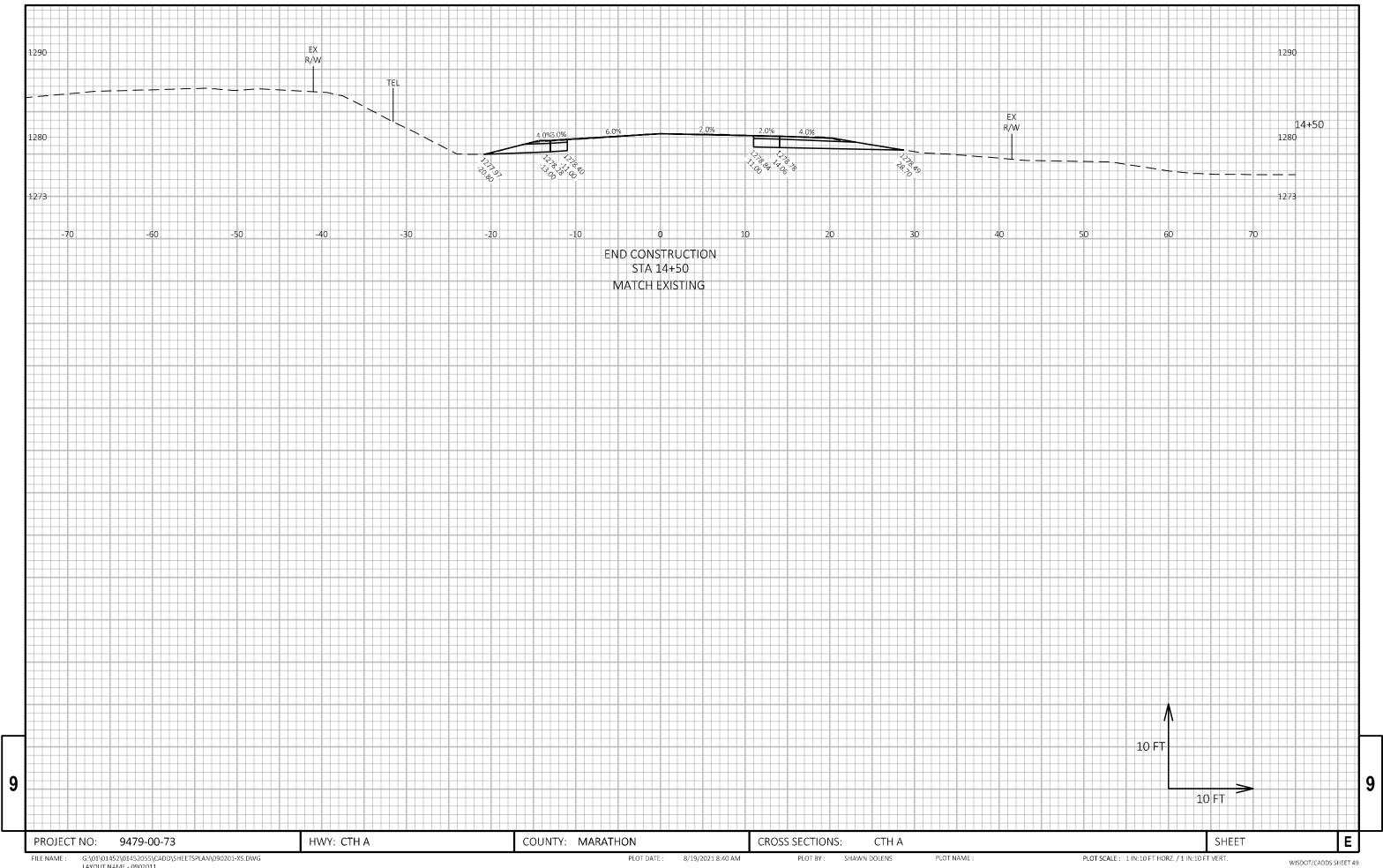


WISDOT/CADDS SHEET 49



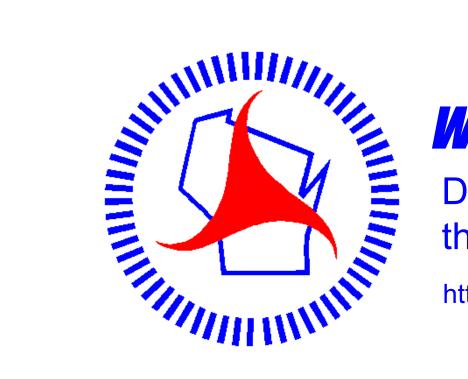






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PLOT DATE : 8/19/2021 8:40 AM



Wisconsin Department of Transportation

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