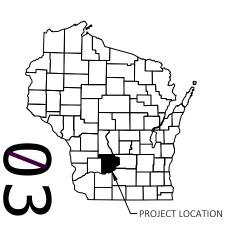
AUGUST 2023

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	4 5	Right of Way Plat Plan and Profile
Section No. Section No. Section No.	5 6	• •
	-	Plan and Profile

ection No.	8	Structure Plans
ection No.	9	Computer Earthwork Data
ection No.	9	Cross Sections

TOTAL SHEETS = 50



DESIGN DESIGNATION 5677-00-78

A.A.D.T.	2023	=	320
A.A.D.T.	2043	=	370
D.H.V.		=	44
D.D.		=	62/38
Т.		=	7.7
DESIGN SPEED		=	60 MPH
ESALS		=	59,000

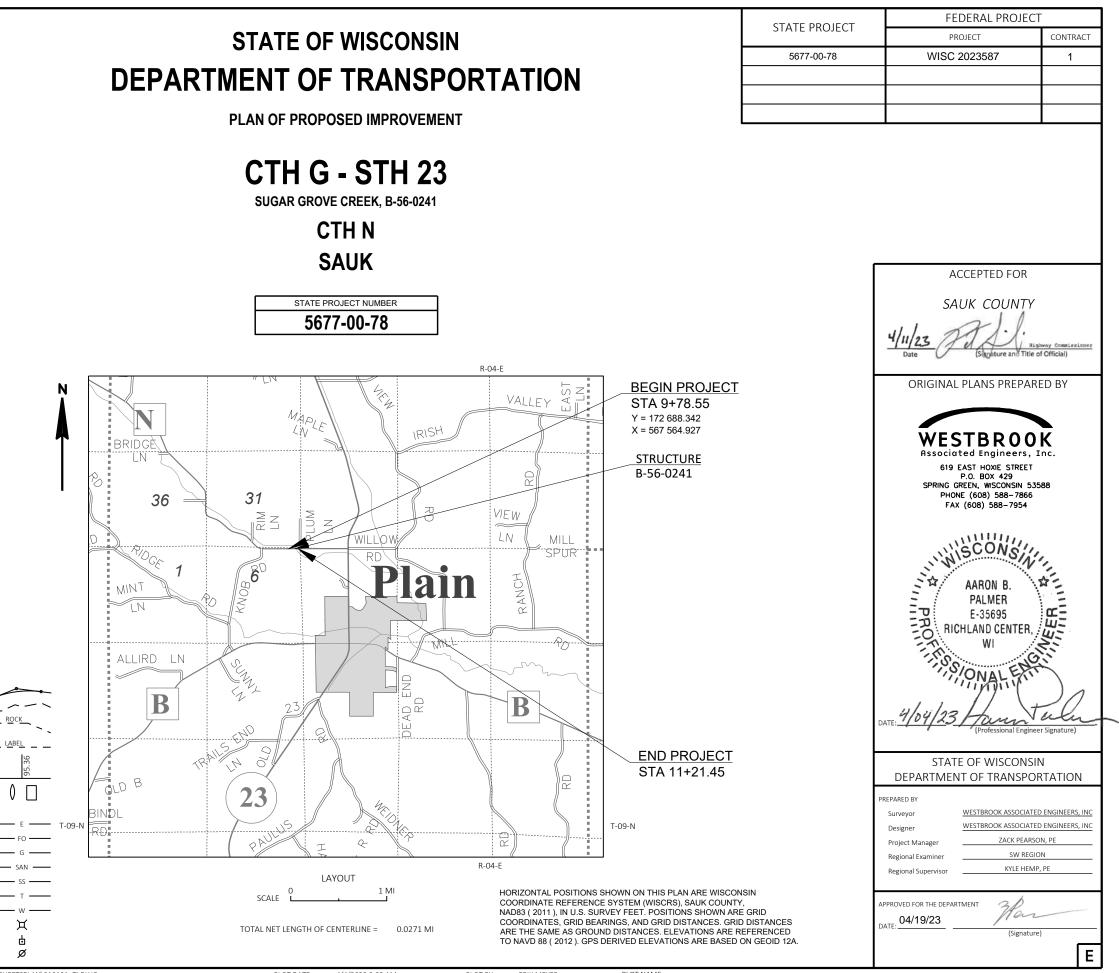


COUNTY:

CORPORATE LIMITS	<u>///////</u>
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	L
EXISTING RIGHT OF WAY	<u> </u>
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	300'EB'
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	—
COMBUSTIBLE FLUIDS	-CAUTION-
MARSH AREA	
WOODED OR SHRUB AREA	{

PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC GAS SANITARY SEWER STORM SEWER TELEPHONE WATER UTILITY PEDESTAL POWER POLE

TELEPHONE POLE



FILE NAME : G:\00-PROJECT FILES\2021\21014 CTH N OVER SUGAR GROVE CREEK, SAUK COUNTY 5677-00-78\0-CAD\SHEETSPLAN\010101_TI.DWG

PLOT DATE : 4/4/2023 9:03 AM

ERIK MEYER PLOT BY :

PLOT NAME

MAD

PROJECT ID: WITH: N/A

5677-00-78

GENERAL NOTES

2

EROSION CONTROL ITEMS TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. SILT FENCE AND TURBIDITY BARRIER SHALL BE IN PLACE PRIOR TO CONSTRUCTION.

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TEMPORARY SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER. OVERSOW PERMANENT SEEDING AREAS WITH TEMPORARY SEED AT 1.5 LBS PER 1000 SQUARE FEET.

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

SLOPES STEEPER THAN 3:1 REQUIRE EROSION MAT.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

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.

D.O.T. MONUMENT IS TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR IN THE SAME WING THAT THE PROPOSED NAME PLATE WILL BE PLACED, AS DIRECTED BY THE ENGINEER.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), SAUK COUNTY, HORIZONTAL DATUM NAD83 (2011), ELEVATION DATUM NAVD88 (2012).

THE 4-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED USING A 2 1/4-INCH LOWER LAYER OF 19 MM NOMINAL SIZE AGGREGATE AND A 1 3/4-INCH UPPER LAYER OF 12.5 MM NOMINAL SIZE AGGREGATE.

ASPHALTIC SURFACE CALCULATIONS ARE BASED ON 112 LB/SY/IN.

MAINTAIN ACCESS TO FIELD ENTRANCES FOR THE DURATION OF THE PROJECT.

ORDER OF DETAIL SHEETS

GENERAL NOTES TYPICAL SECTIONS SIGNING AND PAVEMENT MARKING ALIGNMENT DETAIL AND CONTROL POINTS

	HYDROLOGIC SOIL GROUP											
			A			В	С			D		
			ERANGE CENT)	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						.7585						
ROOFS						.7595						
GRAVEL ROADS, SHO	OULDE	RS				.4060)					

TOTAL PROJECT AREA = 0.47 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.23 ACRES

CONSULTANT LIAISON
WESTBROOK ASSOCIATED ENGINEERS, INC. 619 EAST HOXIE STREET SPRING GREEN, WI 53588
ATTN: AARON PALMER, P.E. PH: (608) 588-7866 FAX: (608) 588-7954 apalmer@westbrookeng.com

UTILITIES	ΠΙΛΛΓΝΟ	AADT AAG. B.M. C OR CL CR. C.T.H.	ANNUAL AVERAGE DAILY TRAFFIC AGGREGATE BENCH MARK CENTERLINE CRUSHED COUNTY TRUNK HIGHWAY	L.F. L.H.F. L.S. LT. MAX. MIN.	LINEAR FEET LEFT HAND FORWARD LUMP SUM LEFT MAXIMUM MINIMUM	REQ'D RT. R/W RD. RDWY. S.	REQUIRED RIGHT RIGHT-OF-WAY ROAD ROADWAY SOUTH
COMMUNICATIONELECTRICFRONTIER COMMUNICATIONSALLIANT ENGERGYRUSS RYANNICK NIEMANN315 OAK ST900 PRAIRIE DR	Dial E11 or (800)242-8511	CWT. C.Y. D.H. D.H.V. DIR. E. COR. EL. OR ELEV.	HUNDREDWEIGHT CUBIC YARD DOUBLE HEADED DESIGN HOURLY VOLUME DIRECTED EAST CORNER ELEVATION	N. NOR. PAV'T. P.C. P.I. P.E. P.K. P OR PL	NORTH NORMAL PAVEMENT POINT OF CURVE POINT OF INTERSECTION PRIVATE ENTRANCE PARKER-KALON NAIL PROPERTY LINE	SE SHRK. S.R. STD. S.T.H. STA. S.Y. T	SOUTHEAST SHRINKAGE SIDE ROAD STANDARD STATE TRUNK HIGHWAY STATION SQUARE YARD TANGENT LENGTH OF CURVE
OAKFIELD, WI 53065 SPRING GREEN, WI 53588 PHONE: (920) 569-3275 PHONE: (608) 501-9061 EMAIL: russel.w.ryan@ftr.com EMAIL: NicholasNiemann@alliantenergy.com	www.DiggersHotline.com	F.E. FT. GAL. H.W. IN. K L.	FIELD ENTRANCE FOOT (FEET) GALLON HIGH WATER INCHES SIGHT DISTANCE LENGTH OF CURVE	P.P. PROJ. P.T. PVMT. R. R.R. REINF.	POWER POLE PROJECT POINT OF TANGENCY PAVEMENT RADIUS RAILROAD REINFORCED	T UNCL. V. V.C. VAR. W.	TRANSLET LINE UNCLASSIFIED EXCAVATION DESIGN SPEED VERTICAL CURVE VARIABLE WEST
PROJECT NO: 5677-00-78 HWY: CTH N	COUNTY: SAUK	GENERAL NOTES				SH	EET E

PROJECT NO: 5677-00-78 HWY: CTH N COUNTY: SAUK **GENERAL NOTES**

G:\00-PROJECT FILES\2021\21014 CTH N OVER SUGAR GROVE CREEK, SAUK COUNTY 5677-00-78\0-CAD\SHEETSPLAN\020101 GN.DWG FILE NAME : LAYOUT NAME - 020101_gn

PLOT DATE : 3/17/2023 8:05 AM PLOT BY : ERIK MEYER

PLOT NAME

RUNOFF COEFFICIENT TABLE

CONTACTS

WDNR LIAISON

DNR SOUTH CENTRAL REGION HEADQUARTERS 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711

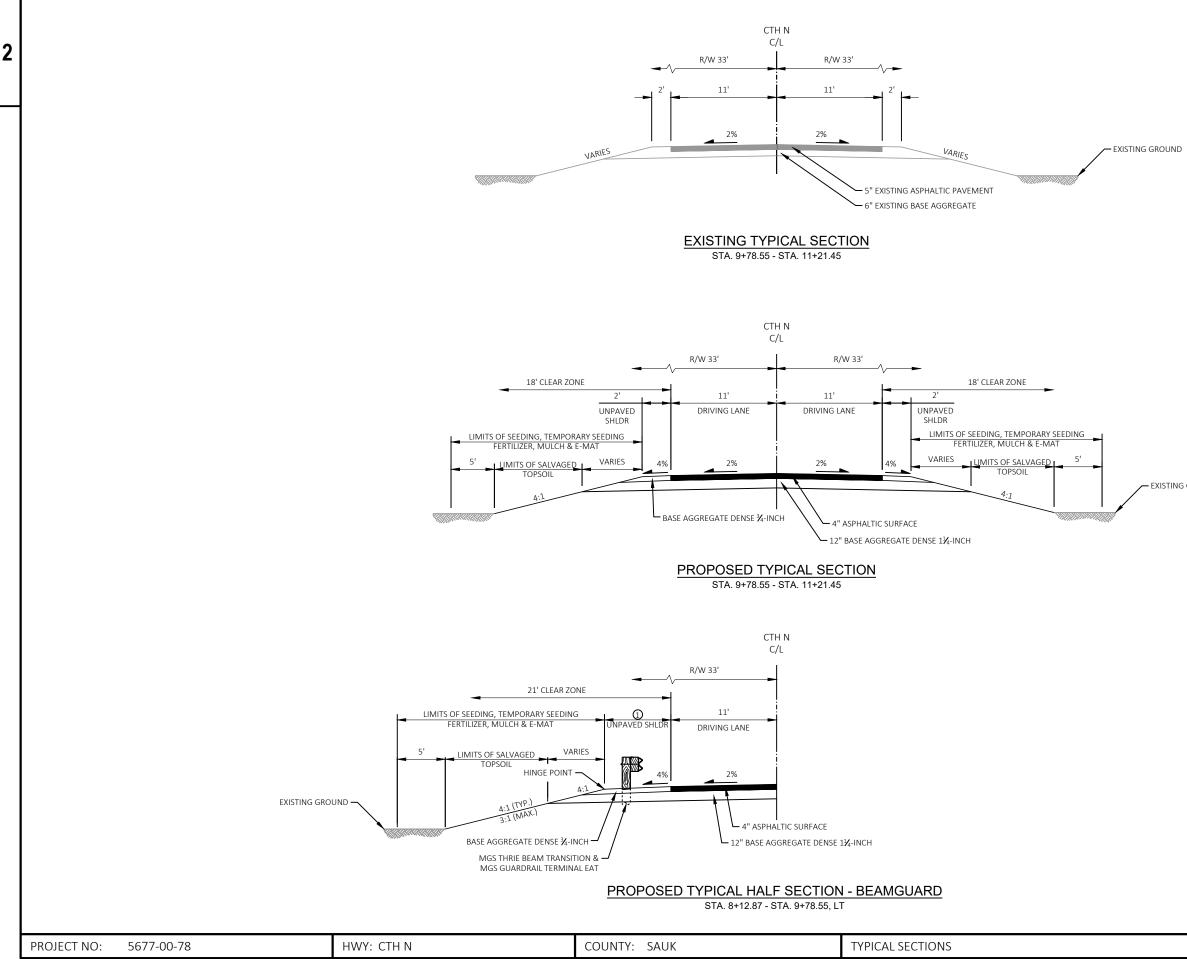
ATTN: ANDY BARTA PH: (608) 235-2955 andrew.barta@wisconsin.gov

COUNTY LIAISON

SAUK COUNTY HIGHWAY DEPARTMENT 620 STATE RD 136 PO BOX 26 BARABOO, WI 53913

ATTN: PATRICK GAVINSKI, P.E. ATTO: (608) 355-4855 patrick.gavinski@saukcountywi.org

STANDARD ABBREVIATIONS



G:\00-PROJECT FILES\2021\21014 CTH N OVER SUGAR GROVE CREEK, SAUK COUNTY 5677-00-78\0-CAD\SHEETSPLAN\020301_TS.DWG FILE NAME : LAYOUT NAME - 020301_ts

PLOT DATE : 2/16/2023 8:45 AM PLOT BY : ERICA BAUER

PLOT NAME :

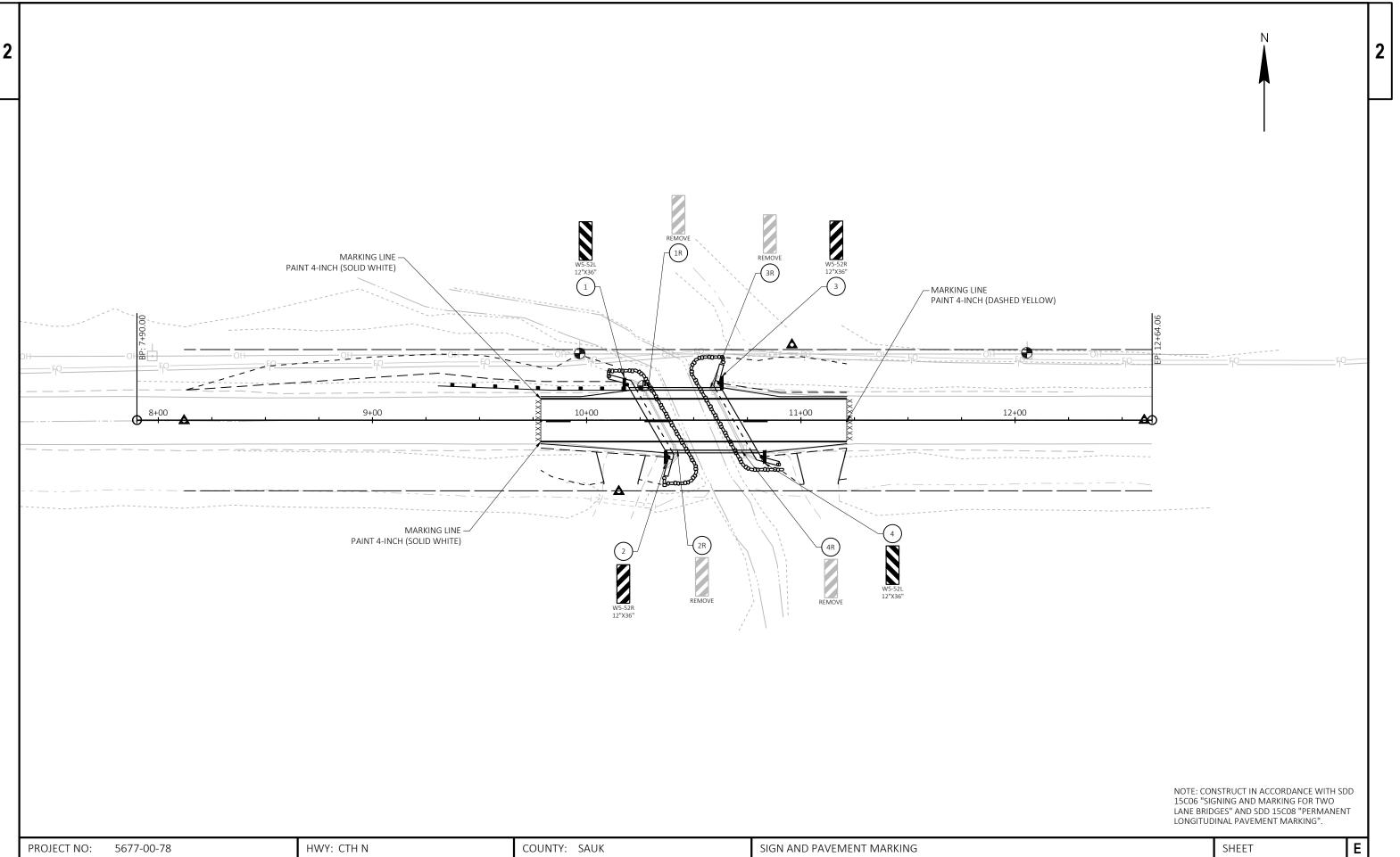
- EXISTING GROUND

2

1 VARIES 2' 5" TO 11' 10"

SHEET

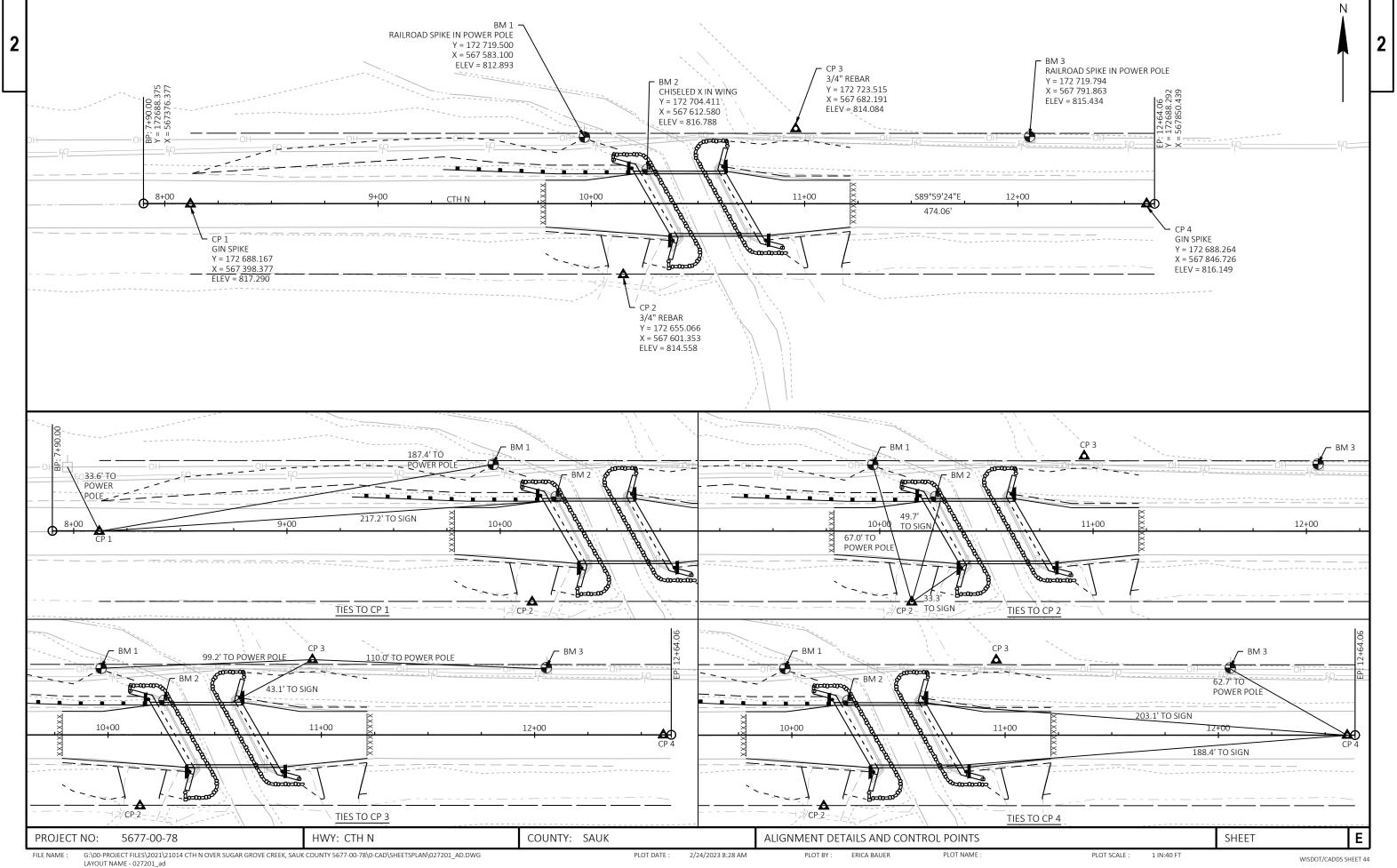
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G-\00-PROJECT FILES\2021\21014 CTH N OVER SUGAR GROVE CREEK, SAUK COUNTY 5677-00-78\0-CAD\SHEETSPLAN\023201_PS.DWG LAYOUT NAME - 023201 FILE NAME :

PLOT DATE : PLOT BY : ERICA BAUER 2/24/2023 8:22 AM

PLOT NAME :



Estimate Of Quantities

					5677-00-78
Line	Item	Item Description	Unit	Total	Qty
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-56-0909	EACH	1.000	1.000
004	205.0100	Excavation Common	CY	286.000	286.000
0006	206.1001	Excavation for Structures Bridges (structure) 01. B-56-0241	EACH	1.000	1.000
8000	210.1500	Backfill Structure Type A	TON	420.000	420.000
010	213.0100	Finishing Roadway (project) 01. 5677-00-78	EACH	1.000	1.000
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	43.000	43.000
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	425.000	425.000
0016	455.0605	Tack Coat	GAL	20.000	20.000
0018	465.0105	Asphaltic Surface	TON	64.000	64.000
0020	502.0100	Concrete Masonry Bridges	CY	162.000	162.000
0022	502.3200	Protective Surface Treatment	SY	196.000	196.000
0024	505.0400	Bar Steel Reinforcement HS Structures	LB	5,080.000	5,080.000
0026	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	19,970.000	19,970.000
0028	513.4061	Railing Tubular Type M	LF	91.000	91.000
0030	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000
0032	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	490.000	490.000
0034	606.0300	Riprap Heavy	CY	107.000	107.000
0036	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	180.000	180.000
0038	614.2500	MGS Thrie Beam Transition	LF	39.400	39.400
0040	614.2610	MGS Guardrail Terminal EAT	EACH	1.000	1.000
0042	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5677-00-78	EACH	1.000	1.000
0044	619.1000	Mobilization	EACH	1.000	1.000
0046	624.0100	Water	MGAL	4.800	4.800
0048	625.0500	Salvaged Topsoil	SY	240.000	240.000
0050	627.0200	Mulching	SY	590.000	590.000
0052	628.1504	Silt Fence	LF	510.000	510.000
0054	628.1520	Silt Fence Maintenance	LF	810.000	810.000
0056	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0058	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0060	628.2008	Erosion Mat Urban Class I Type B	SY	10.000	10.000
0062	628.6005	Turbidity Barriers	SY	150.000	150.000
0064	628.6510	Soil Stabilizer Type B	ACRE	0.120	0.120
0066	629.0210	Fertilizer Type B	CWT	0.400	0.400
0068	630.0130	Seeding Mixture No. 30	LB	15.000	15.000
070	630.0200	Seeding Temporary	LB	20.000	20.000
0072	630.0500	Seed Water	MGAL	10.000	10.000
0074	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0076	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0078	638.2602	Removing Signs Type II	EACH	4.000	4.000
0800	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0082	642.5001	Field Office Type B	EACH	1.000	1.000
0084	643.0420	Traffic Control Barricades Type III	DAY	1,495.000	1,495.000
0086	643.0705	Traffic Control Warning Lights Type A	DAY	2,990.000	2,990.000
0088	643.0900	Traffic Control Signs	DAY	1,170.000	1,170.000
0090	643.5000	Traffic Control	EACH	1.000	1.000
0092	645.0111	Geotextile Type DF Schedule A	SY	76.000	76.000
0094	645.0120	Geotextile Type HR	SY	181.000	181.000
0096	646.1005	Marking Line Paint 4-Inch	LF	324.000	324.000
	650.4500	Construction Staking Subgrade	LF	100.000	100.000

05/19/2023 09:29:00 Page 1 3

			E	stimate Of Q	uantities	
					5677-00-78	
Line	Item	Item Description	Unit	Total	Qty	
0100	650.5000	Construction Staking Base	LF	100.000	100.000	
0102	650.6501	Construction Staking Structure Layout (structure) 01. B-56-0241	EACH	1.000	1.000	
0104	650.9911	Construction Staking Supplemental Control (project) 01. 5677-00-78	EACH	1.000	1.000	
0106	650.9920	Construction Staking Slope Stakes	LF	267.000	267.000	
0108	690.0150	Sawing Asphalt	LF	46.000	46.000	
0110	715.0502	Incentive Strength Concrete Structures	DOL	966.000	966.000	
0112	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+50	EACH	1.000	1.000	
0114	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000	
0116	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	225.000	225.000	

05/19/2023 09:29:00

Page 2

<u>E/</u>	RTHWORK SUMMARY										
COMMON EXCAV (CY) (1) STATION - STATION LOCATION (Item # 205.01	UNUSABLE AVAILABLE PAVEMENT MATERIAL 00) MATERIAL (CY)	IEXPANDED FILL FILL (CY) (CY) FILC (5)	MASS ORDINATE +/- (CY)				ļ	BASE AGG	GREGATE DENSE		
CUT (2) 8+13 - 10+36 WEST APPROACH 179 10+64 - 11+21 EAST APPROACH 107	(CY) (4) (3) 20 159 20 87	FACTOR 1.25 5 6 0 0	(6) 153 87			STATION	- STATION	LOCATIO	305.0110 3/4-INCH BASE ION (TON)	305.0120 1 1/4-INCH BASE (TON)	624.0100 WATER (MGAL)
1) COMMON EXCAVATION IS THE CUT. ITEM # 205.0100. 2) SALVAGED/UNUSABLE MATERIAL IS INCLUDED IN CUT. 3) SALVAGED/UNUSABLE MATERIAL INCLUDES ASPHATLIC PAVEMENT	40 246	5 6	240]		8+13	- 10+36 - 11+21	MAINLI MAINLI DRIVEW	INE 36 INE 7 /AYS	270 130 25 425	3.1 1.4 0.3 4.8
4) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE MATERIAL 5) EXPANDED FILL FACTOR = 1.25: EXPANDED FILL = (UNEXPANDED 6) THE MASS ORDINATE + OR - CALCULATED FOR THE DIVISION. PLUS SHORTAGE OF MATERIAL IN THE DIVISION.	LL)*1.25	ERIAL WITHIN THE DIVISION. MINU	JS INDICATES A								
ASPHALTIC ITEMS	MG	GS GUARDRAIL			<u>S</u>	ILT FENCE 628.150	4 628.1520		MOBILIZ	ATIONS EROS	SION CONTROL
455.0600 465.0105 TACK ASPHALTIC COAT SURFACE STATION - STATION LOCATION (GAL) (TON)		614.2610 614.2500 MGS MGS GUARDRAIL THRIE BEAM TERMINAL TRANSIITION EAT			10+20 MA	SILT FENCE DCATION (LF) NLINE, LT 215 NLINE, RT 65	SILT FENCE MAINTENANC (LF) 430 130	E	LOCATION	628.1905 MOBILIZATION EROSION CONTR (EACH)	628.1910 MOBILIZATIONS S EMERGENCY OL EROSION CONTROL (EACH)
9+79 - 10+36 MAINLINE 10 32 10+64 - 11+21 MAINLINE 10 32 TOTALS 20 64	LOCATION NW QUADRANT TOTALS			10+45 10+67	11+23 MAI UNDI	NLINE, LT 85 NLINE, RT 40 STRIBUTED 105 OTALS 510	170 80 810	_	ID 5677-00-78 TOTALS	3	2
						FINISHING ITEM	MS				
TURBIDITY BARRIER 628.6005				SA	25.0500 ALVAGED 627.0 TOPSOIL MULC		STABILIZER FE		30.0130 630.0200 SEEDING SEEDING IIX NO. 30 TEMPORAF		
LOCATION (SY) WESTAPPROACH 83 EASTAPPROACH 67		8+11 9+75		MAINLINE, RT	(SY) (S) 78 26 35 72	0 2	0.05 0.01	0.17 0.05	(LB) (LB) 5 8 2 2 2	(MGAL) 4.4 1.2	
TOTALS 150			i1 - 11+22 i1 - 11+22		65 11 9 24 53 11 240 59	4 9 10.0	0.01 0.03	0.08 0.02 0.08 0.40	3 4 1 1 4 5 15 20	2.0 0.4 2.0 10.0	
ALL ITEMS CATEGORY 0010 UNLESS NOTED OTHERWISE											

PROJECT NO: 5677-00-78	HWY: CTH N	COUNTY: SAUK			MISCELLANEOU	S QUANTITIES	
FILE NAME : G:\00-PROJECT FILES\2021\21014 CTH N OVER SUGAR GROVE CREEK, SAUK	COUNTY 5677-00-78\0-CAD\SHEETSPLAN\030201_MQ.DWG		PLOT DATE :	3/21/2023 2:09 PM	PLOT BY :	ERIK MEYER	PLOT NAME :

LAYOUT NAME - 030201_mq

3

SHEET

Ε

TRAFFIC CONTROL

		643.0420 TRAFFIC CONTROL BARRICADES TYPE III		TRAFFI WARN	3.0705 C CONTROL ING LIGHTS YPE A	TRAFFI	3.0900 C CONTROL IGNS	643.5000 TRAFFIC CONTROL
LOCATION	DURATION	(NO.)	(DAY)	(NO.)	(DAY)	(NO.)	(DAY)	(EACH)
NORTH APPROACH	65	9	585	18	1170	7	455	
SOUTH APPROACH	65	9	585	18	1170	7	455	
UNDISTRIBUTED	65	5	325	10	650	4	260	—
PROJECT					-		1000	1
	TOTALS	23	1495	46	2990	18	1170	1

PLACE TRAFFIC CONTROL IN ACCORDANCE WITH SDD 15C02 "BARRICADES AND SIGNS FOR MAINLINE CLOSURES." PLACEMENT SUBJECT TO ENGINEER APPROVAL.

CONSTRUCTION STAKING

						650.6500	650.9910	650.9920
				650.4500	650.5000	STRUCTURE LAYOUT	SUPPLEMENTAL	SLOPE
				SUBGRADE	BASE	01.B-56-0241	CONTROL	STAKES
STATION	-	STATION	LOCATION	(LF)	(LF)	(LS)	(LS)	(LF)
8+12.87	ų,	10+29	MAINLINE	50	50			217
10+71	-	11+21	MAINLINE	50	50			50
	5		PROJECT			1	1	
			TOTALS	100	100	1*	1	267

*CATEGORY 0020

NOTE:
ALL ITEMS CATEGO

3

ORY 0010 UNLESS NOTED OTHERWISE

PROJECT NO: 5677-00-78	HWY: CTH N	COUNTY: SAUK			MISCELLANEOU	S QUANTITIES	
FILE NAME : G:\00-PROJECT FILES\2021\21014 CTH N OVER SUGAR GROVE CREEK. SAU	K COUNTY 5677-00-78\0-CAD\SHEETSPLAN\030201_MO.DWG		PLOT DATE :	3/21/2023 2:09 PM	PLOT BY :	FRIK MEYER	PLOT NAME :

REEK, SAUK C Y 5677-00-78\0-CAD\SHEETSPLAN\030201_MQ.DW0 LAYOUT NAME - 030202_mq

SIGNING

4X6-INCH

X 12-FT

(EACH)

1

1

1

1

4

SIGN

1

1R

2

2R

3R

3

4R

4

SIGN CODE

W5-52L

W5-52L

W5-52R

W5-52R

W5-52R

W5-52R

W5-52L

W5-52L

TOTALS

MARKING LINE PAINT 4-INCH

CENTERLINE

EDGELINE, LT

TOTALS

646.1005

(LF)

38

143

143

324

STATION LOCATION NUMBER

LT

LT

RT

RT

LT

LT

RT

RT

STATION - STATION LOCATION

9+79 - 11+21 EDGELINE, RT

9+79 - 11+21

9+79 - 11+21

10+19

10+29

10+38

10+42

10+58

10+62

10+73

10+82

634.0612 637.2230 638.2602 638.3000

SIGN

TYPE II

(EACH)

1

1

1

1

4

REMOVING

SMALL SIGN

SUPPORTS

(EACH)

1

1

1

4

NOTES

BRIDGE HASH MARKS

POSTS WOOD SIGNS TYPE II REMOVING

REFLECTIVE

TYPEF

(SF)

3

3

3

3

12

REMARK

SINGLE DASHED YELLOW

SOLID WHITE

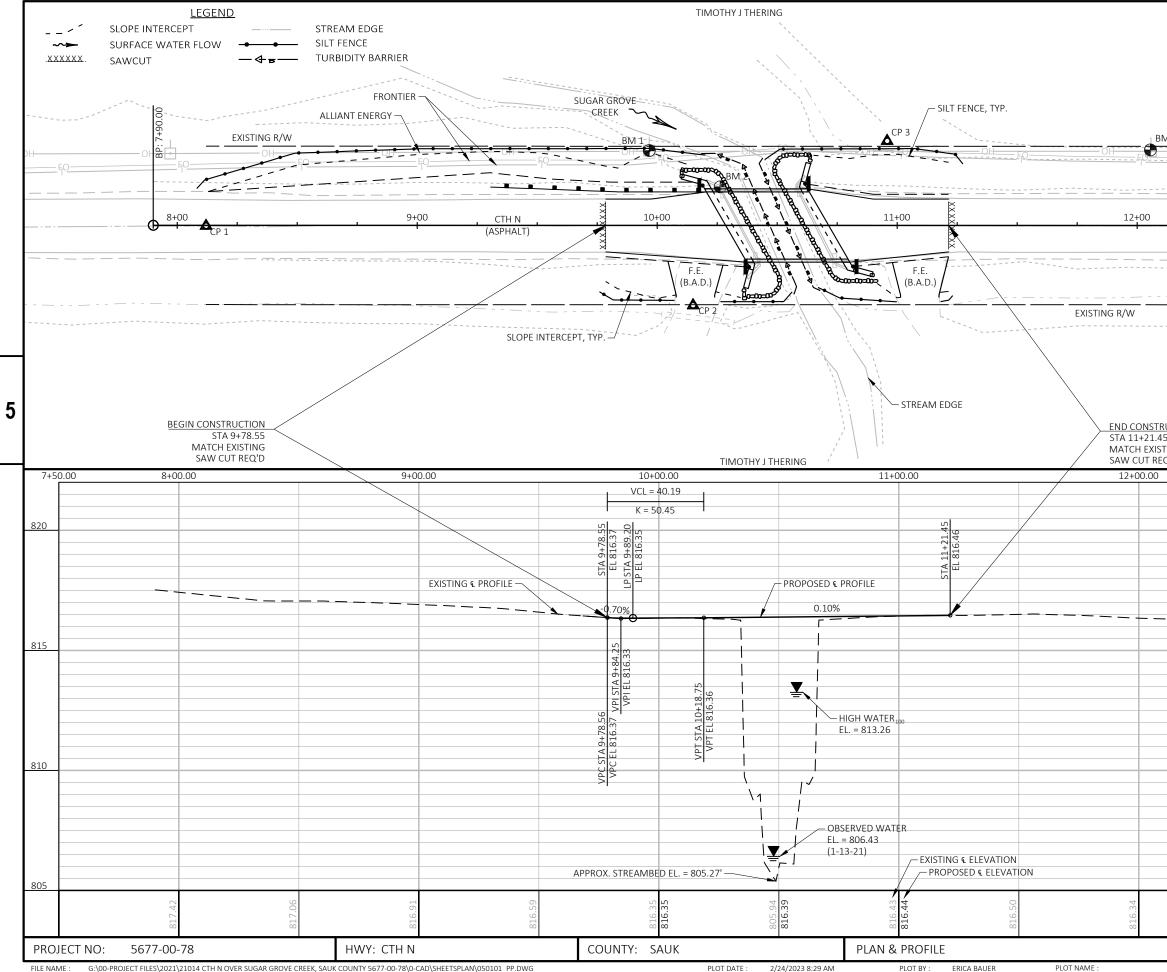
SOLID WHITE

3

SAWING ASPHALT

STATION	LOCATION	690.015 (LF)
9+79	MAINLINE	23
11+21	MAINLINE	23
	TOTALS	46

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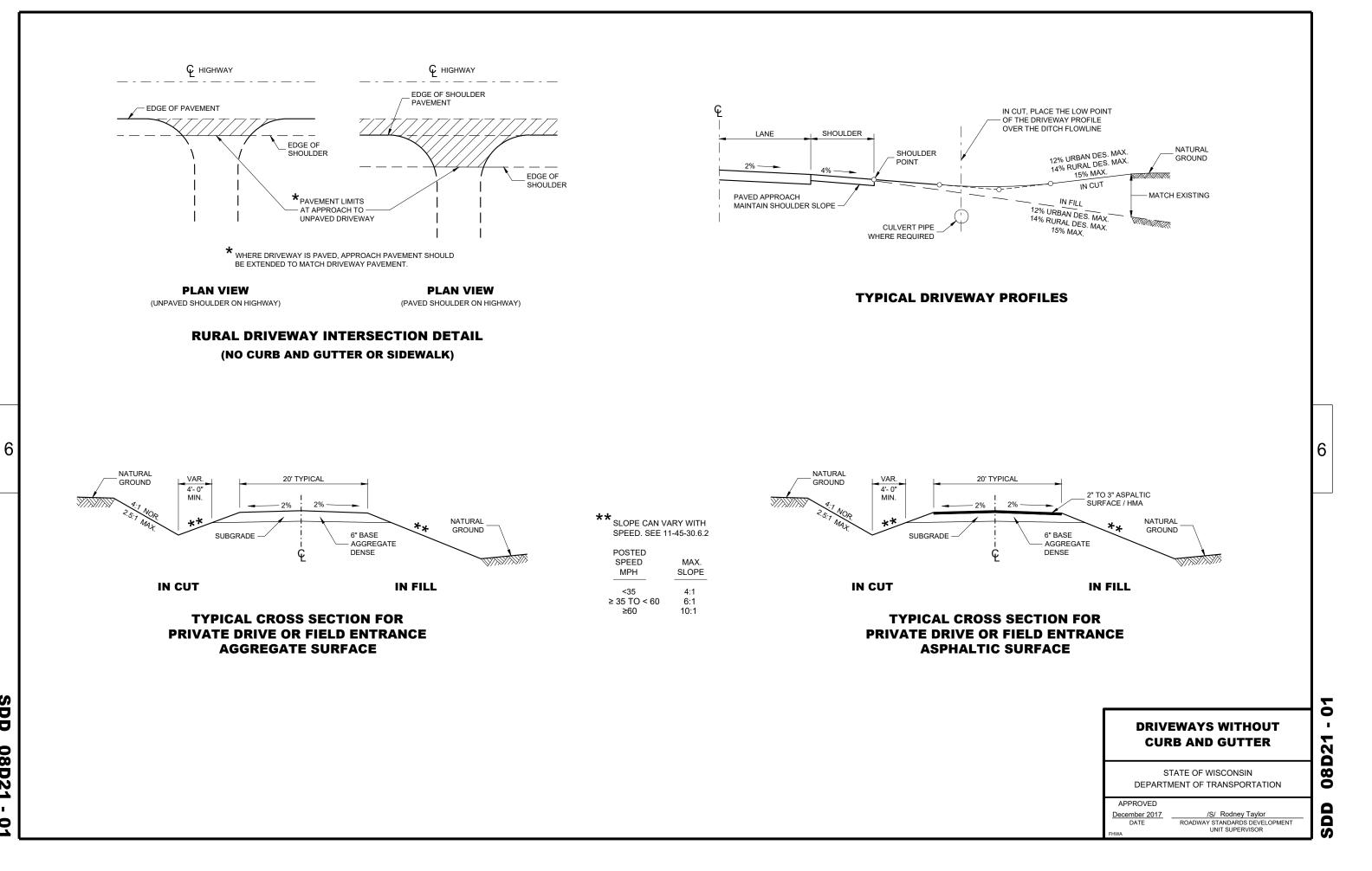


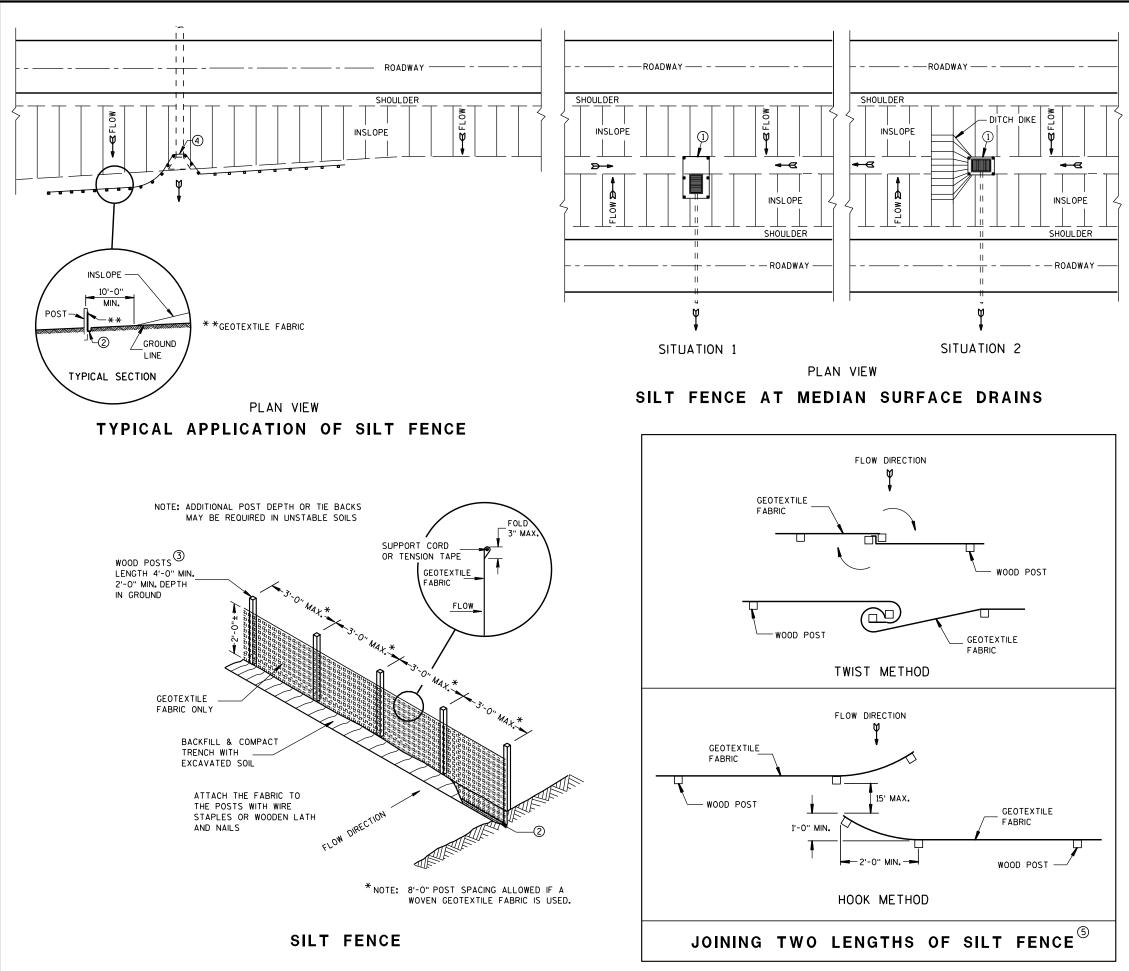
PLOT BY : ERICA BAUER

13			EP; 12+64.06				N	
		ср 4)		 FQ	FT	0	
			BEN	СН	MARKS			_
JCTION ING Q'D	BM 1 9+ BM 2 10		RAILROAD SPIKE CHISLED X IN W	DES E IN ING	CRIPTION POWER POLE, 31.16' LT	81 81	ELEV. 2.89 6.79 5.43	5
			1	3+(3+50	820	
		RI 32 28	2.80-FT OVERALL 3.8-FT CLEAR ROA	LEI ADV			815	
	816.19	ST ST 42 28 SI	FA. 10+50 FRUCTURE B-56-0 2.90-FT OVERALL 3.00-FT CLEAR RC	D24 LEI DAD CRE	1 REQUIRED NGTH AND		805 E	

Standard Detail Drawing List

08D21-01 08E09-06 08E11-02	DRI VEWAYS WI THOUT CURB & GUTTER SI LT FENCE TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
14B42-07B	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)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRI CADES AND SI GNS FOR VARI OUS CLOSURES
15C06-10	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-22A	LONGITUDINAL MARKING (MAINLINE)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS





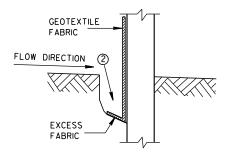
S.D.D. 8 E 9

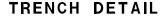
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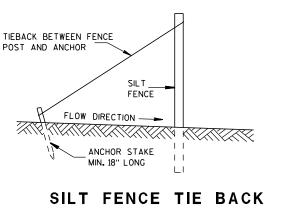
GENERAL NOTES

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

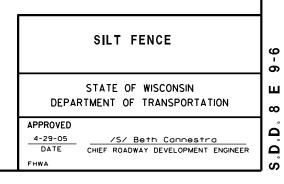
- \bigcirc horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3)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

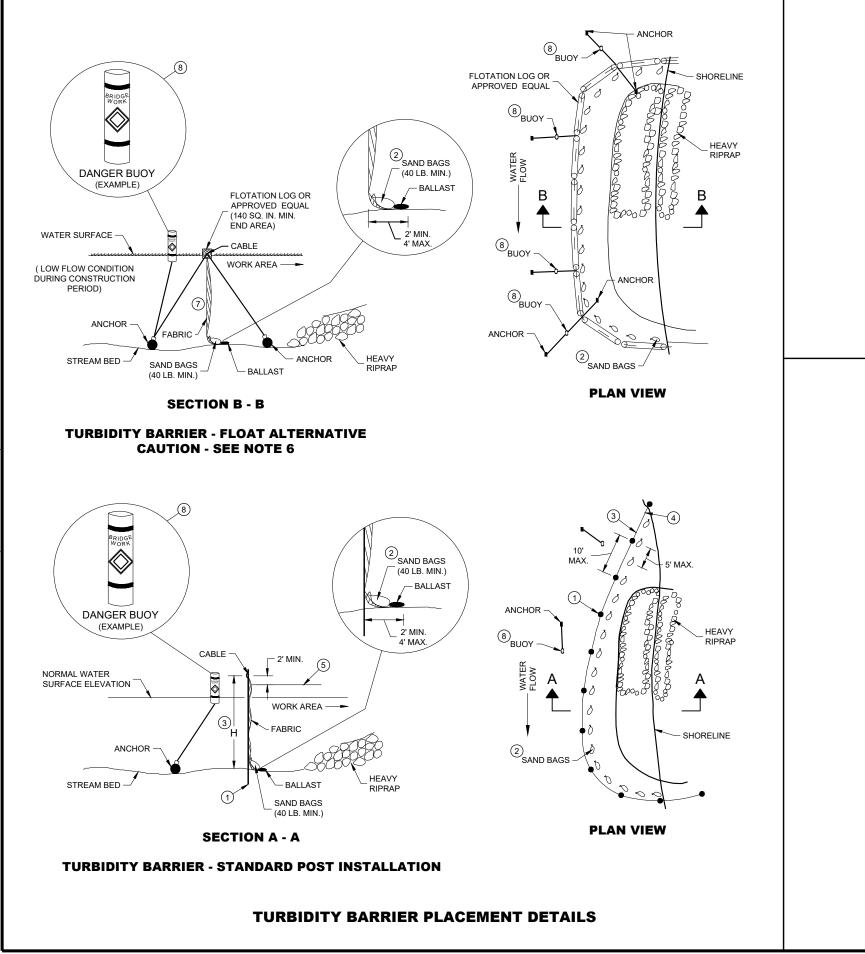




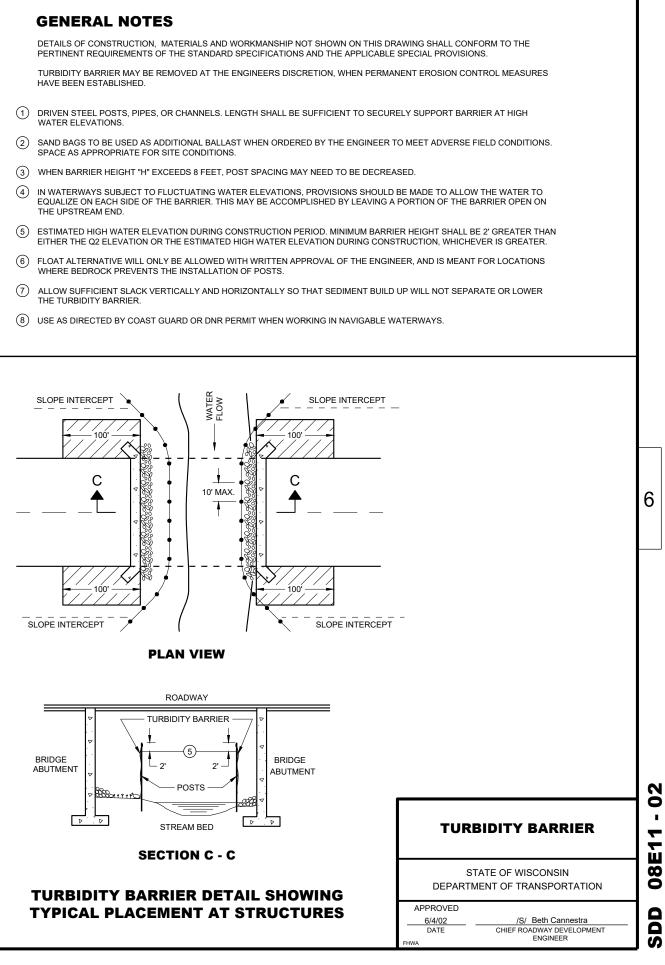


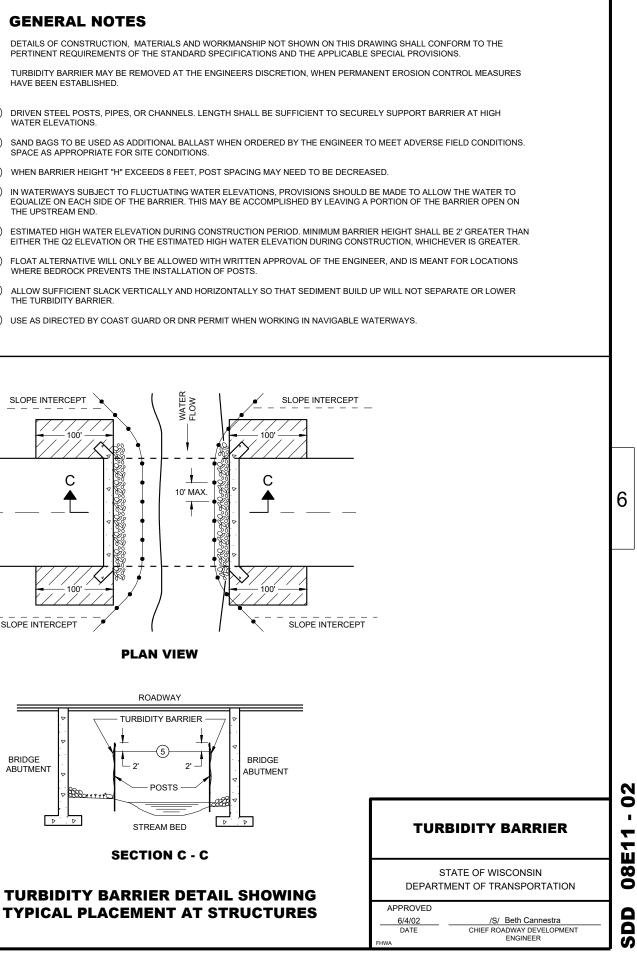
(WHEN REQUIRED BY THE ENGINEER)



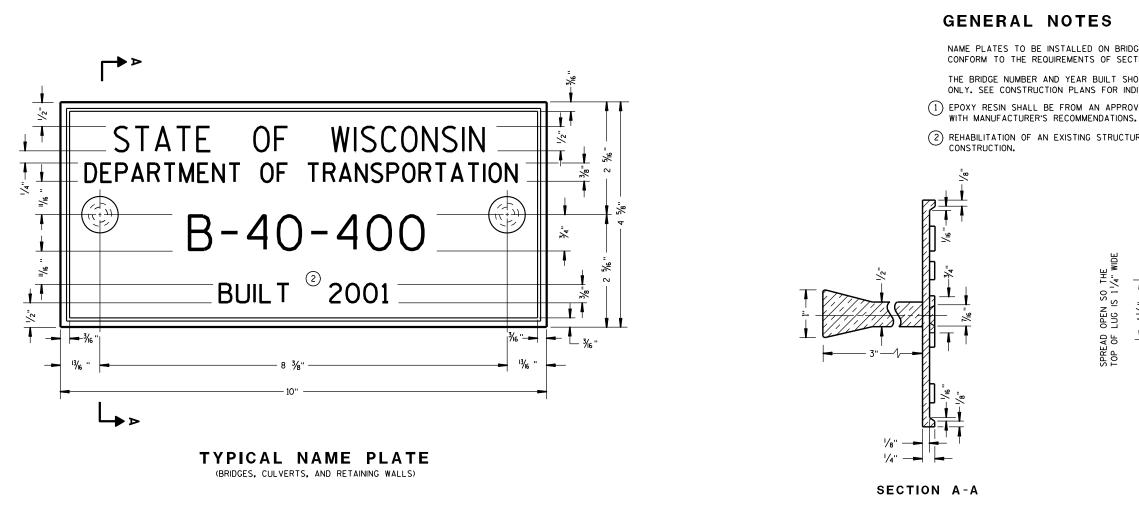


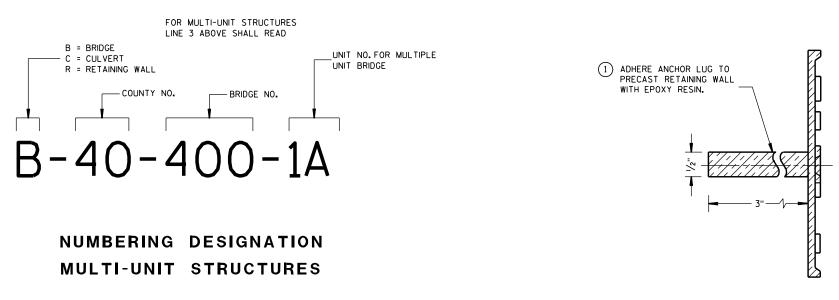
- WATER ELEVATIONS.





SDD 08E -. 02



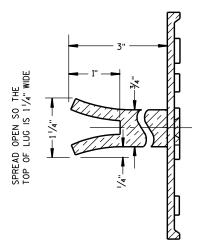


ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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

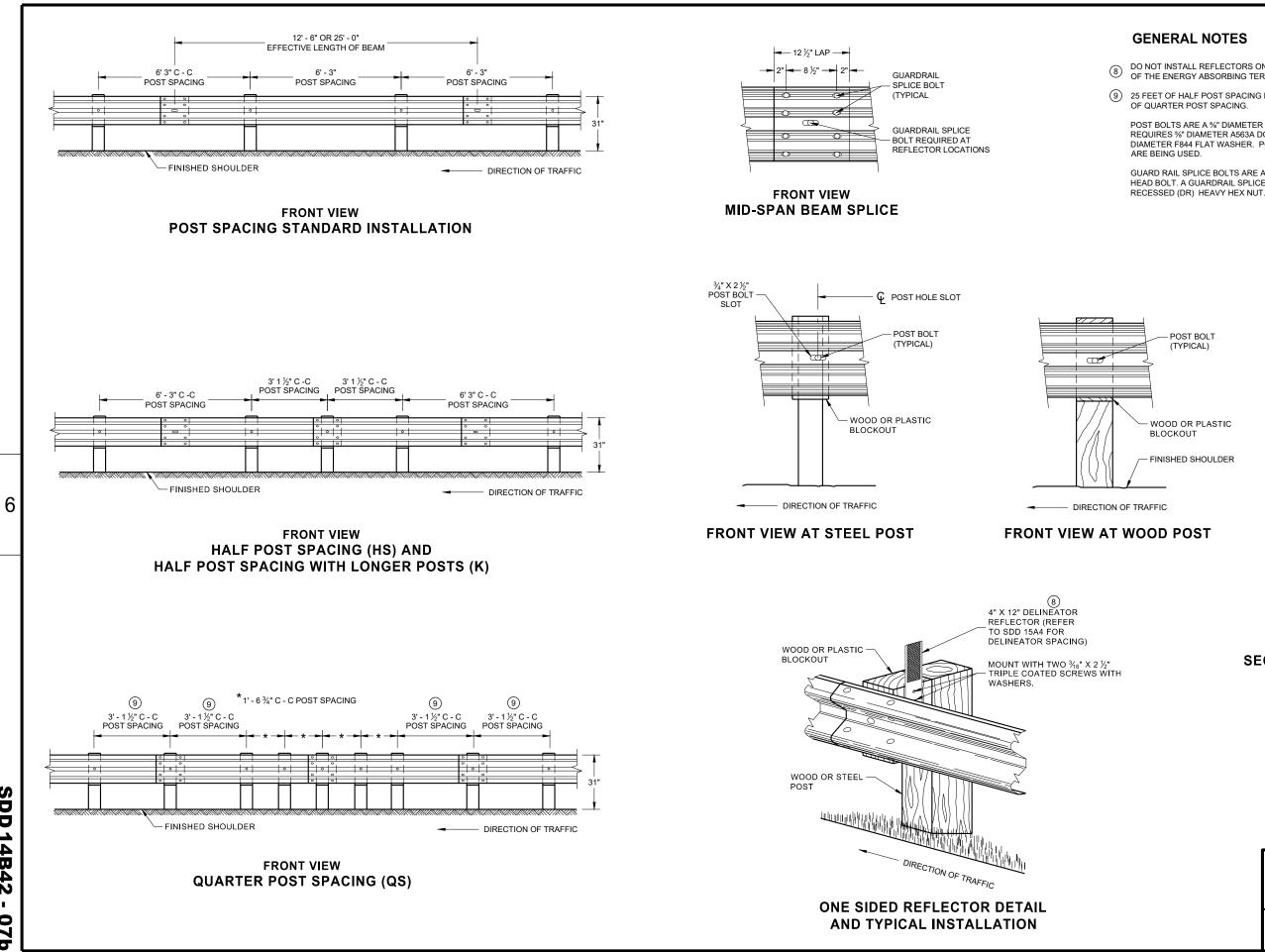
APPROVED

3/26/10 DATE FHWA

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

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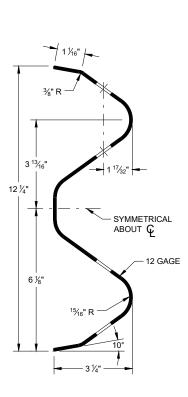
SDD 14B42 0 ð

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



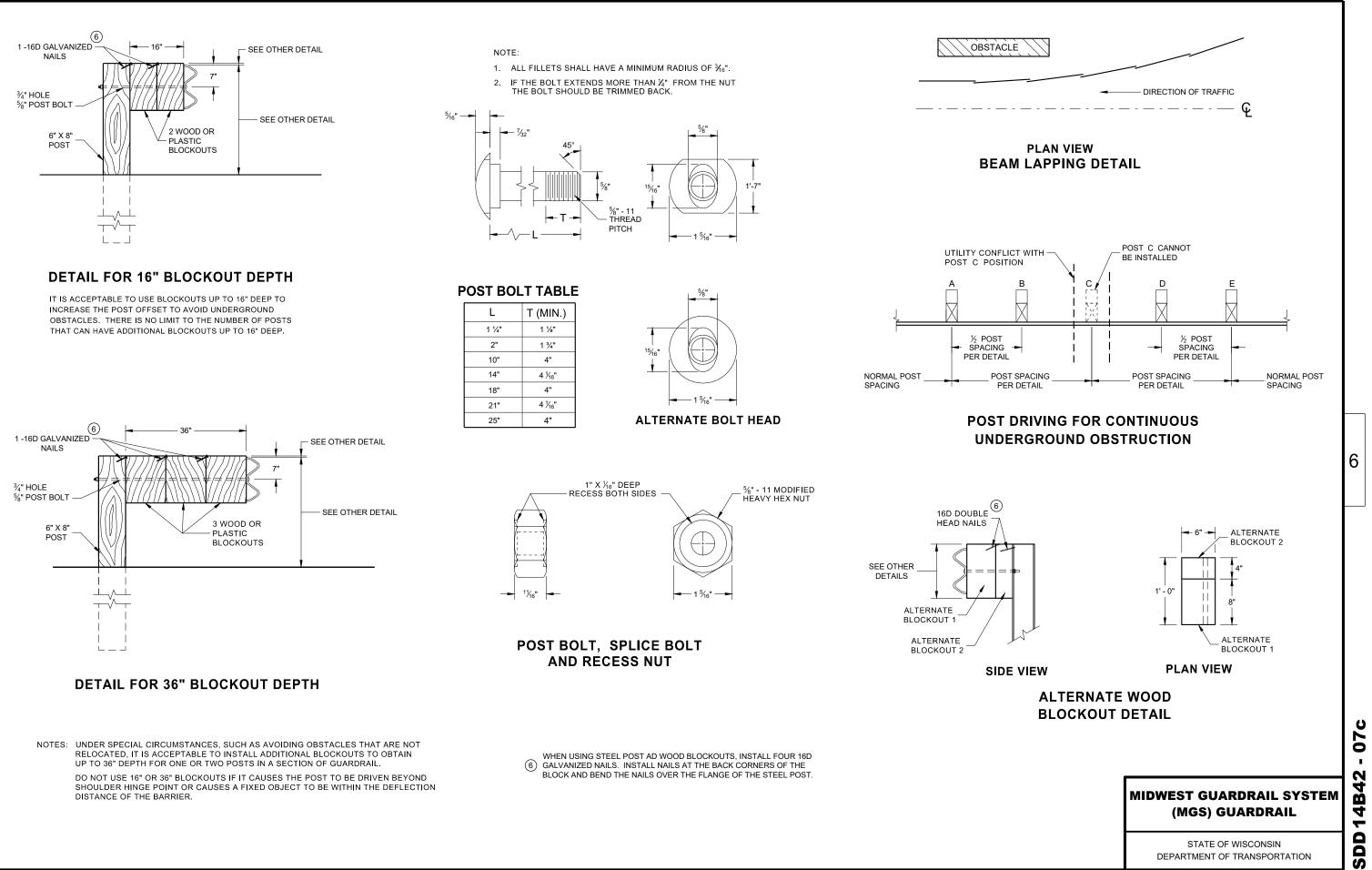
SECTION THRU W-BEAM RAIL

07b . N 4 à 4 ~ SDD

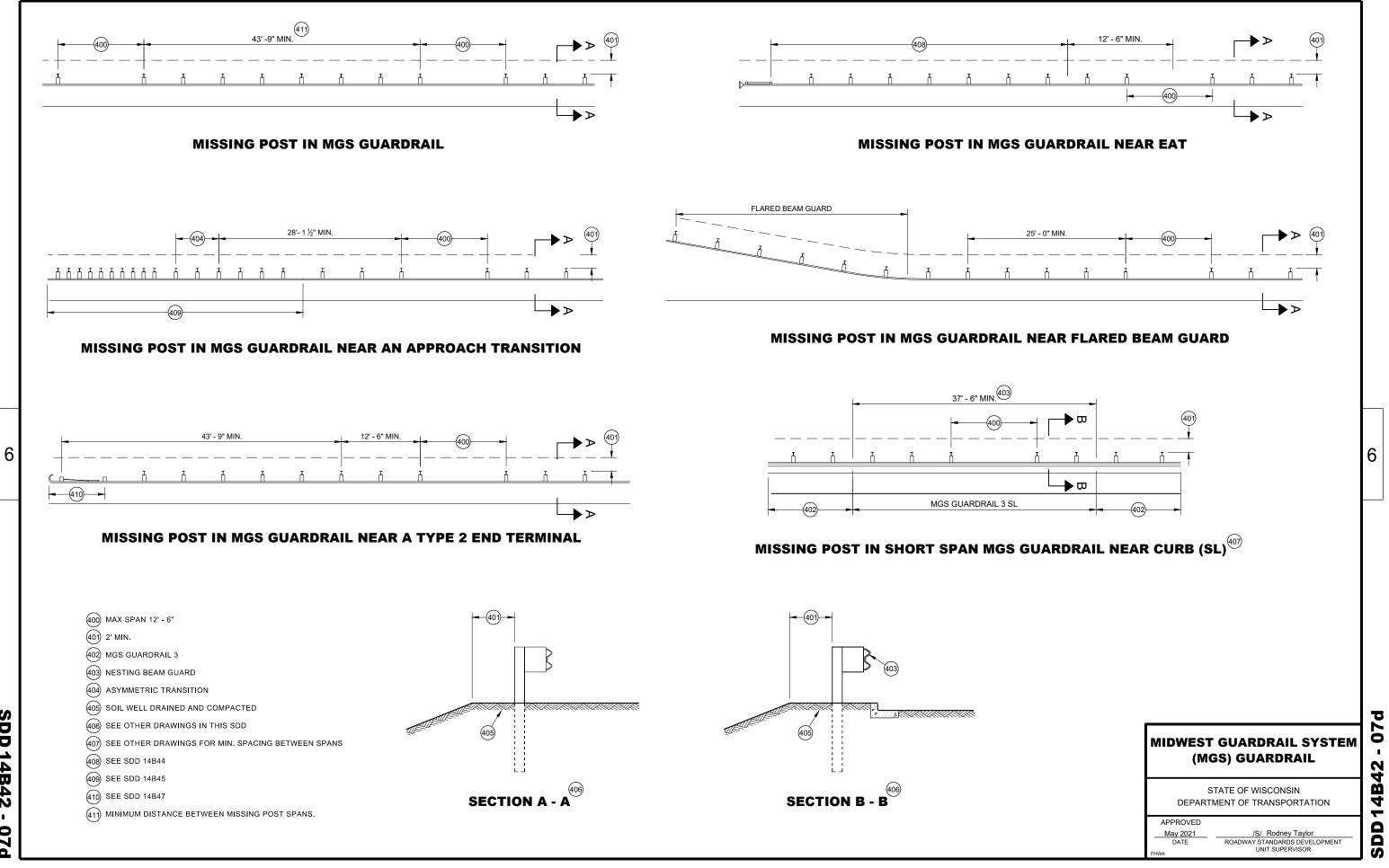
6

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.

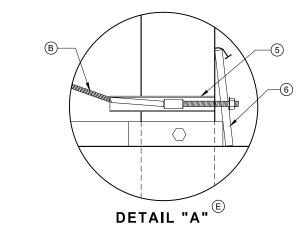
SEE SDD 14B42 FOR MORE INFORMATION.

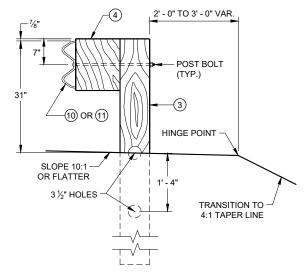
★ DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

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 $\frac{1}{2}$ " 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.

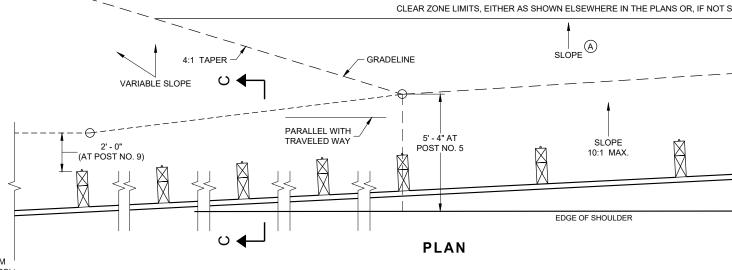


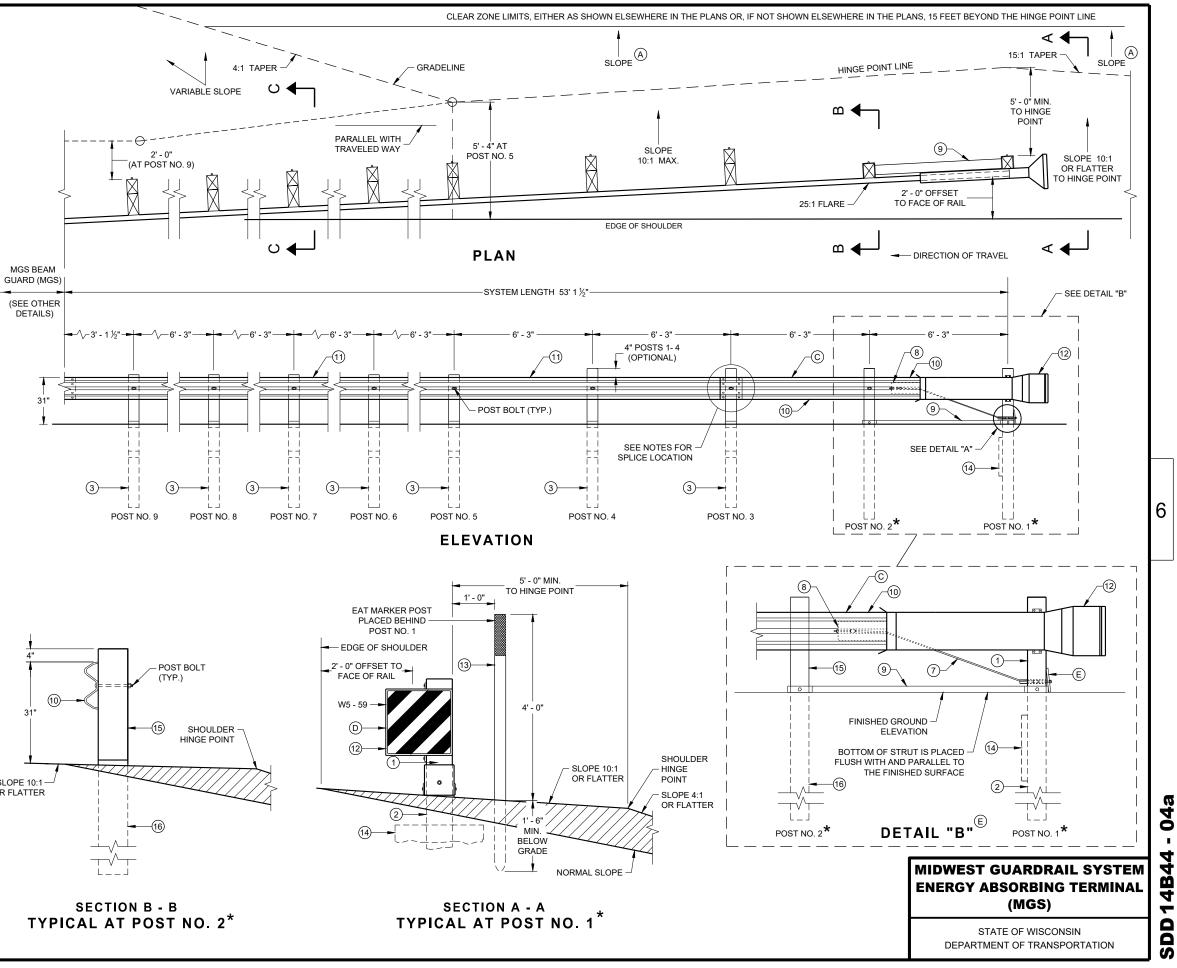


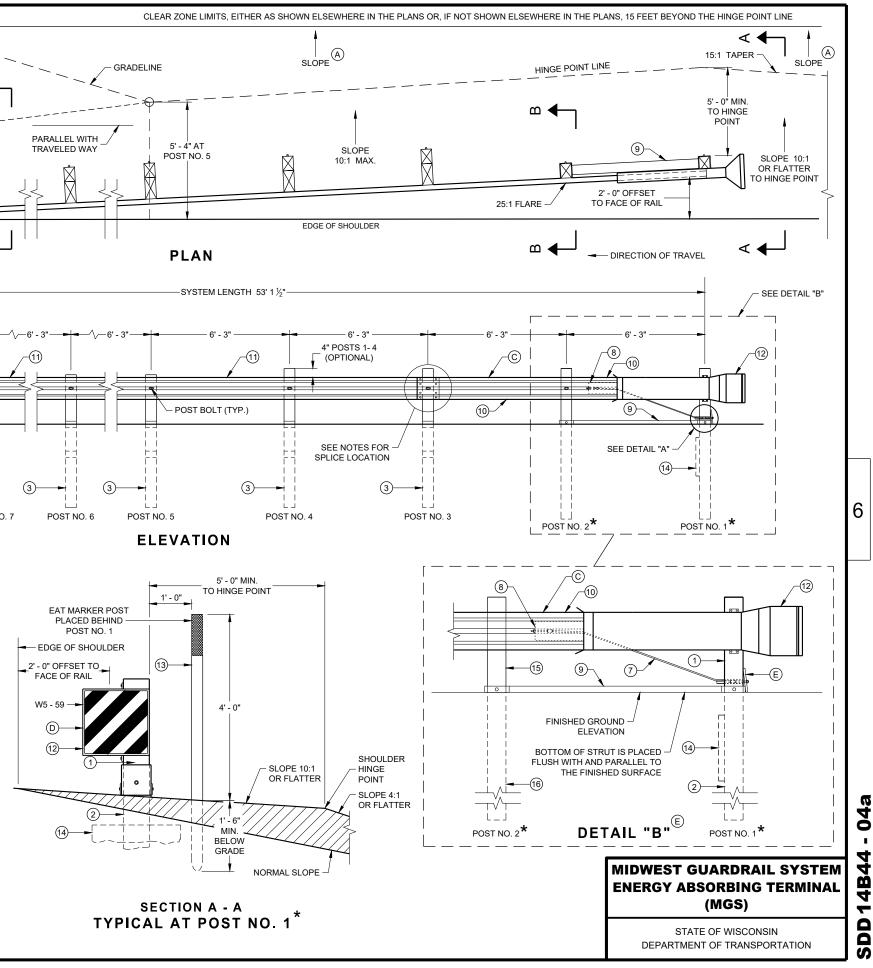
31 -(15) SHOULDER HINGE POINT SLOPE 10:1-OR FLATTER

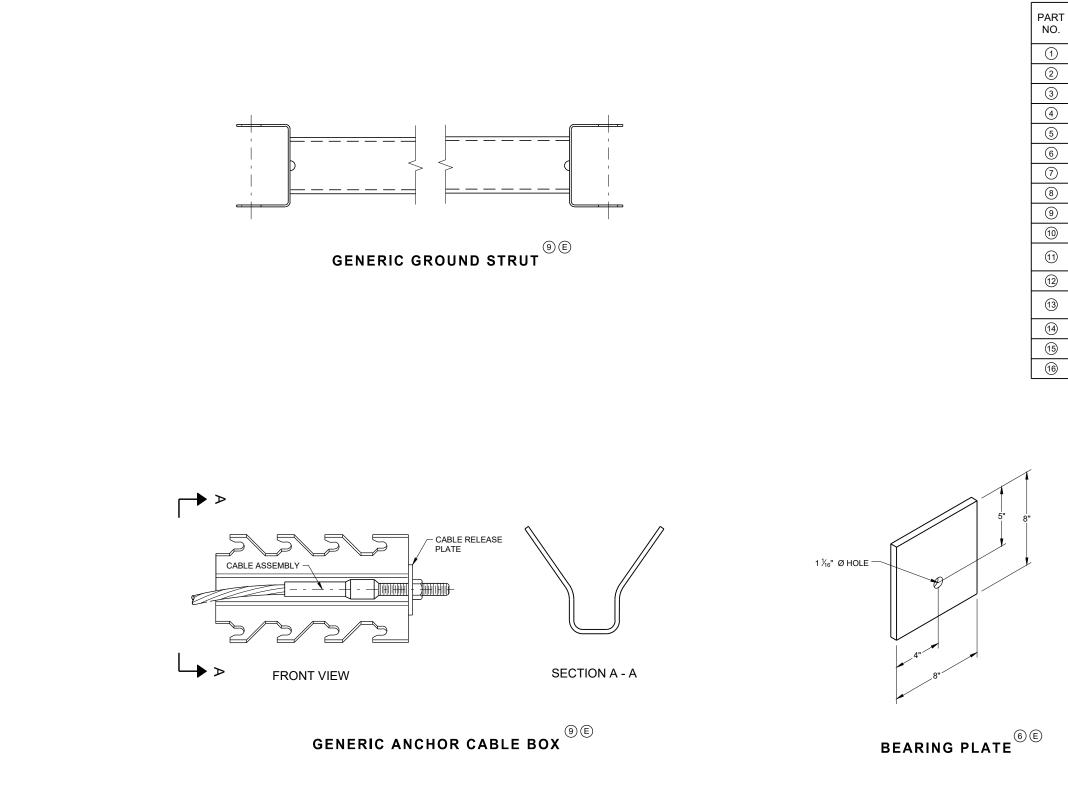
SECTION C - C **TYPICAL AT POST NOS. 3 - 9**

SECTION B - B TYPICAL AT POST NO. 2*









BILL OF MATERIALS

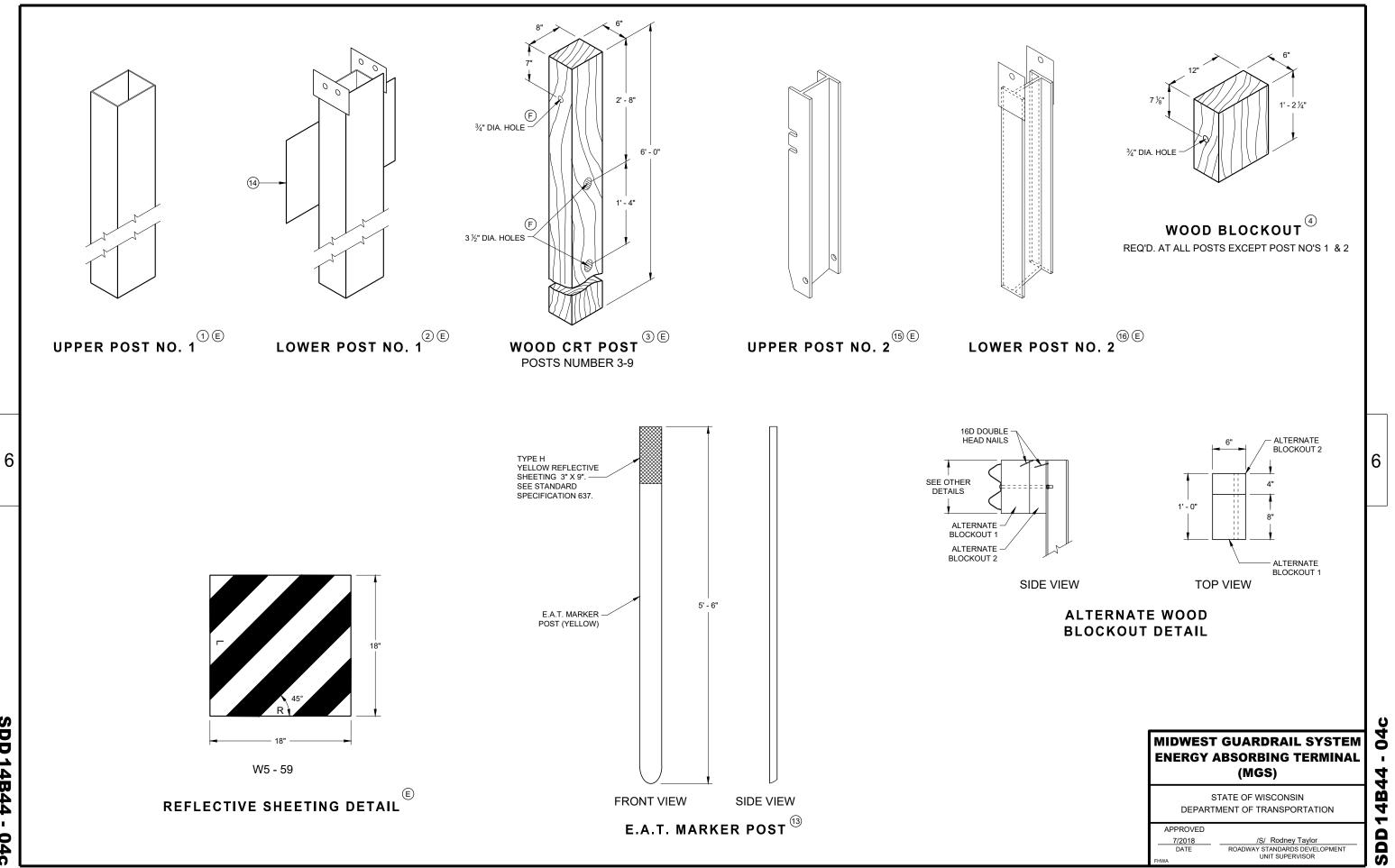
DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
UPPER POST NO. 1 6" X 6" TUBE
LOWER POST NO. 1
WOOD CRT
WOOD BLOCKOUT
PIPE SLEEVE
BEARING PLATE
BCT CABLE ASSEMBLY
ANCHOR CABLE BOX
GROUND STRUT
PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
STANDARD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

6

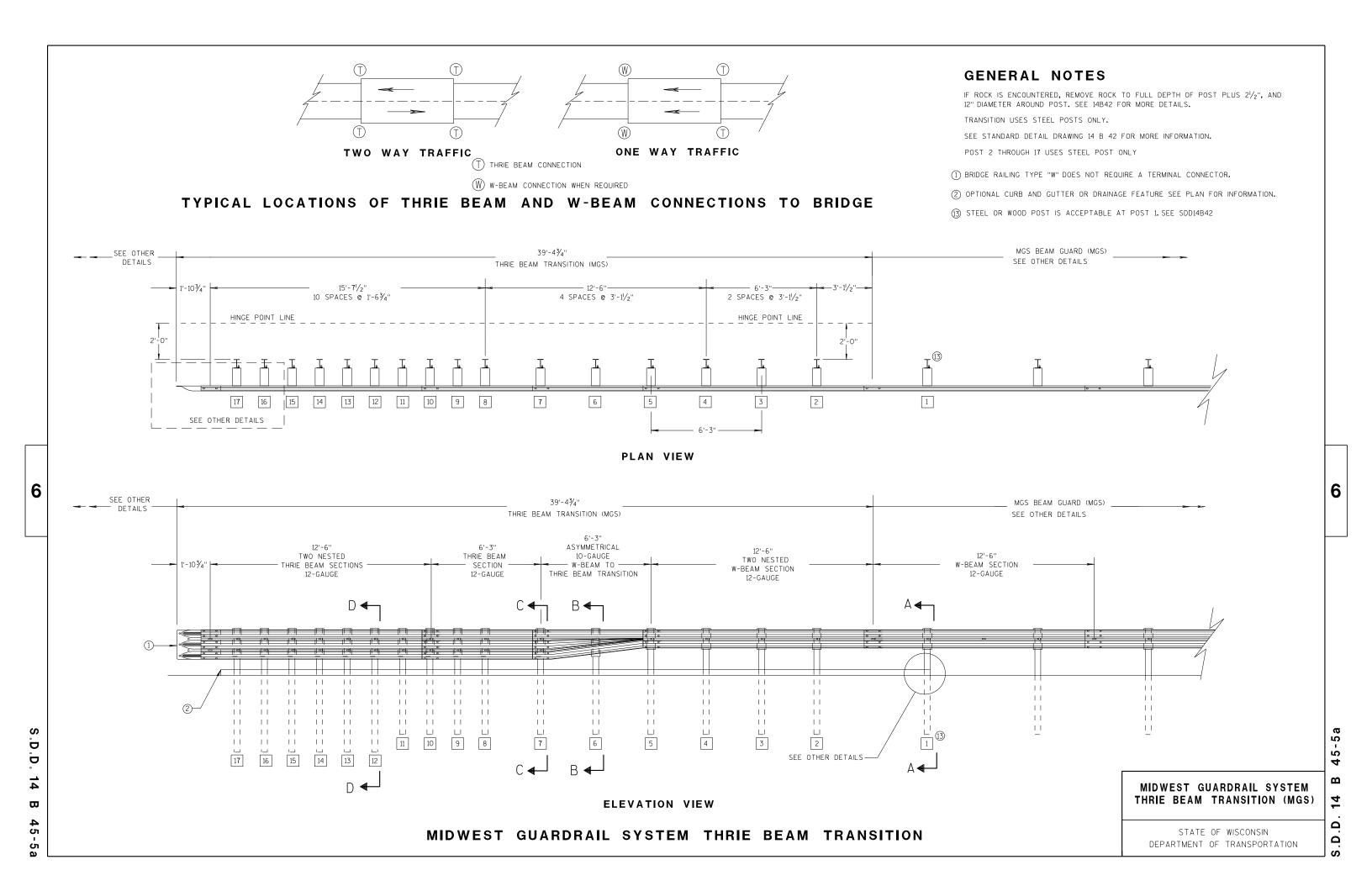
SDD14B44 - 04b

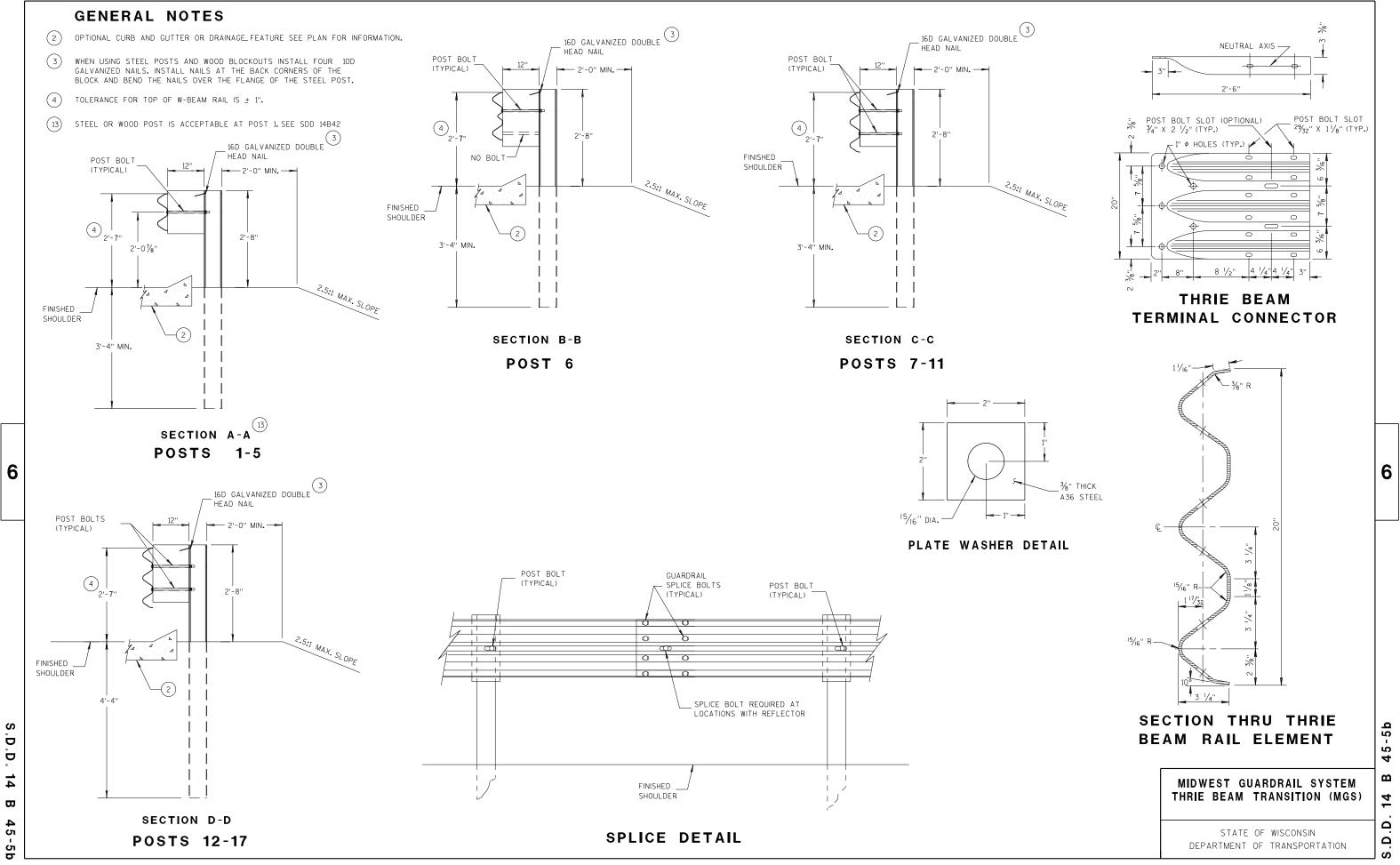
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



SDD 14B44 - 04c



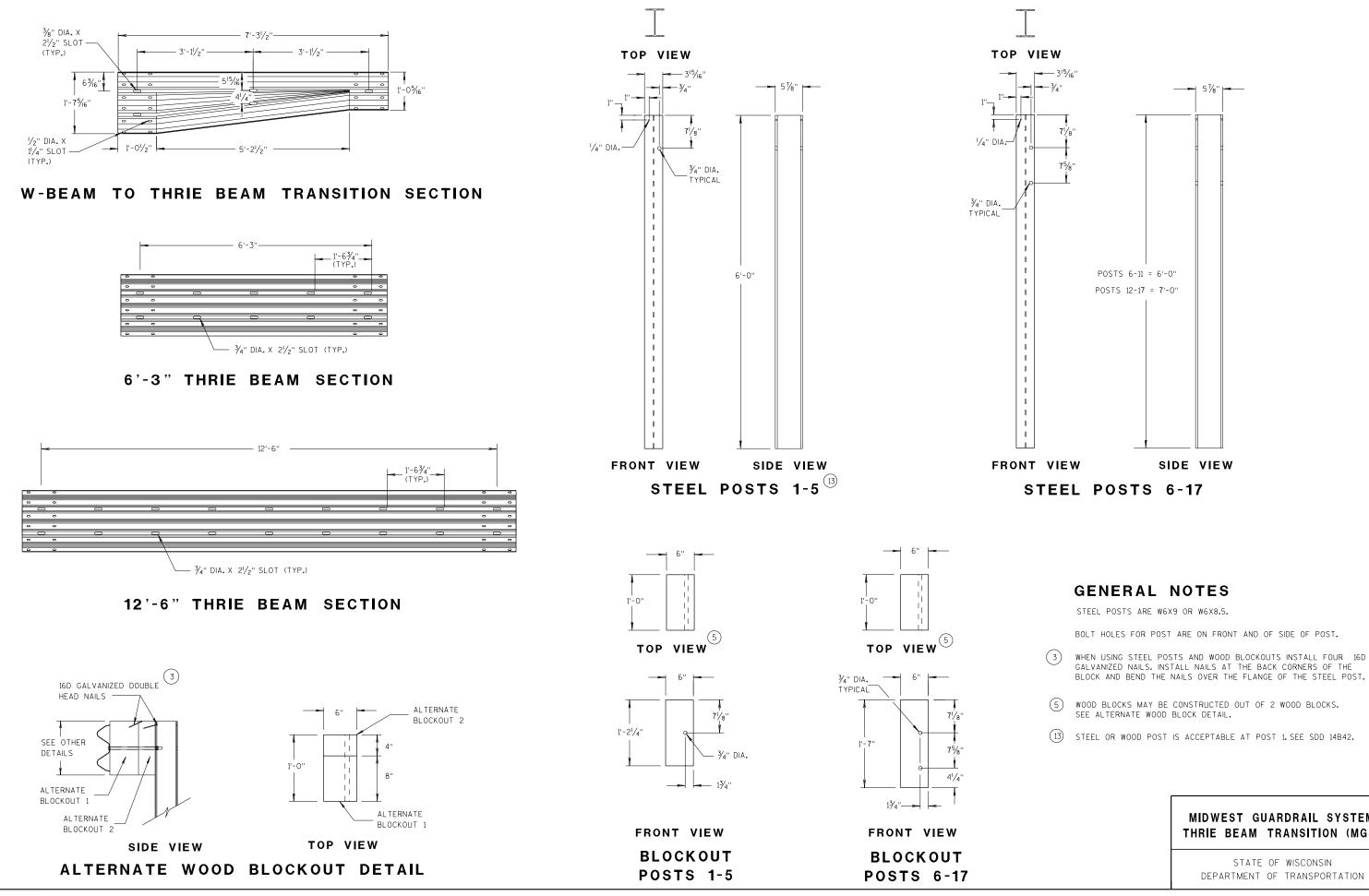


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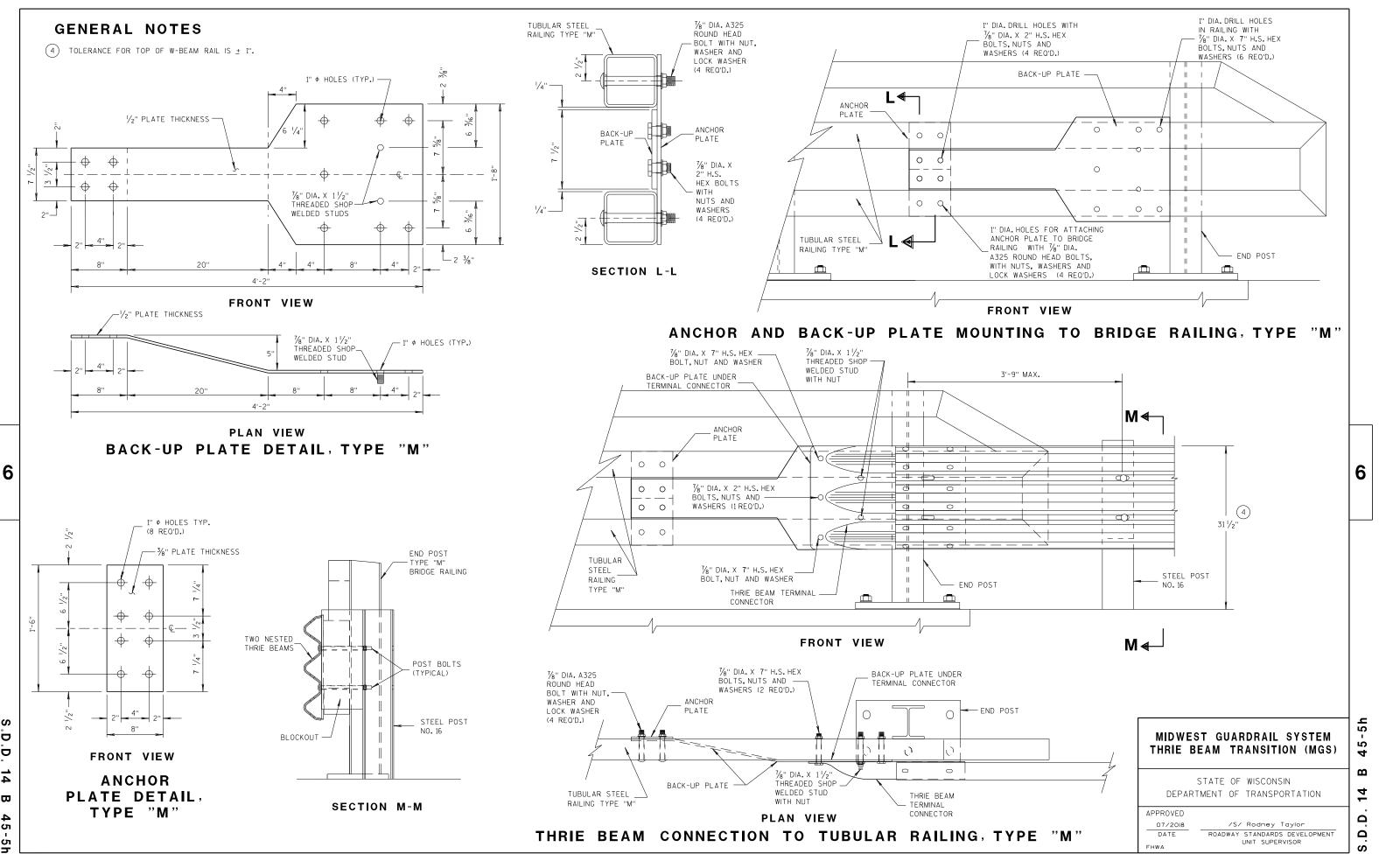
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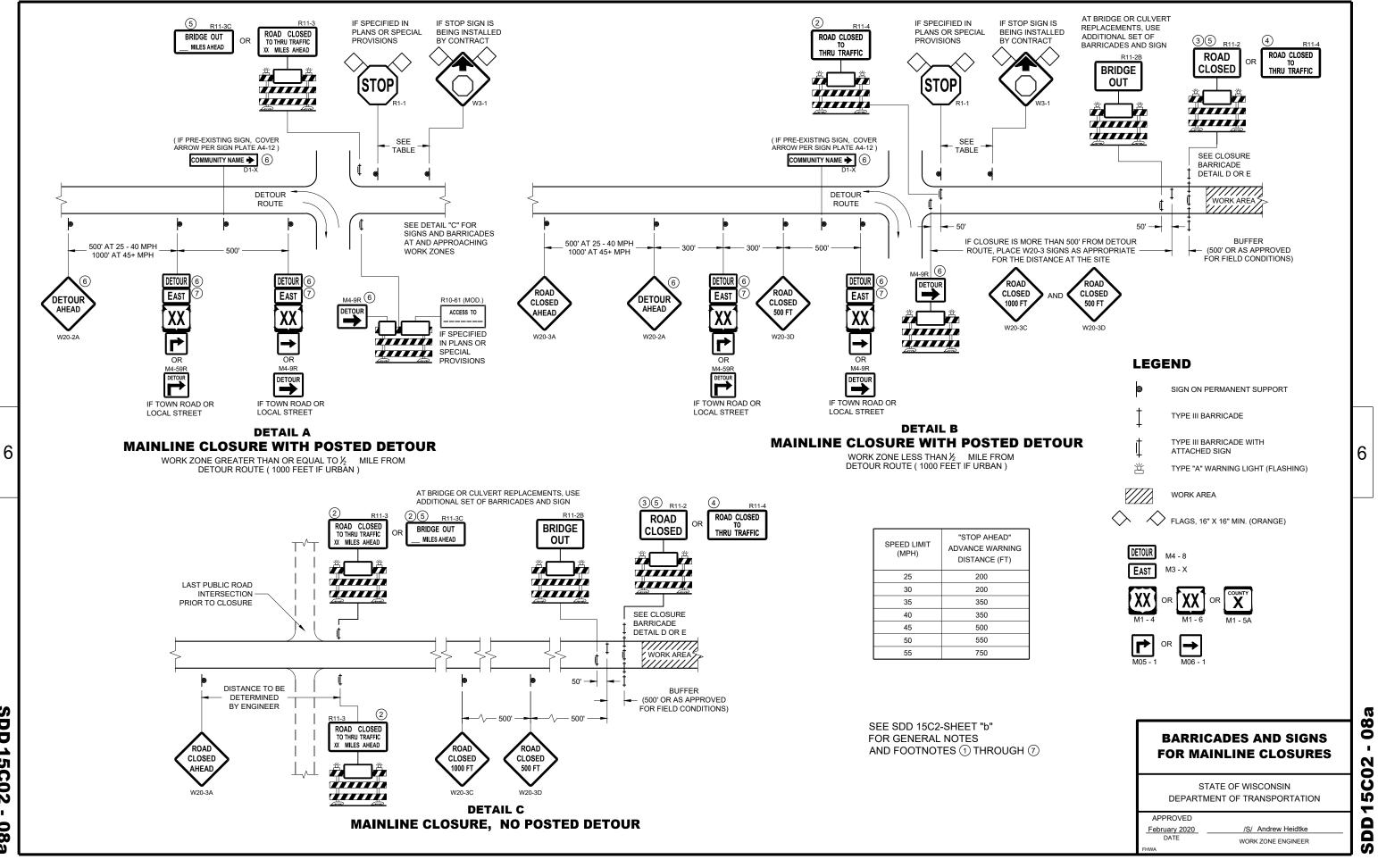
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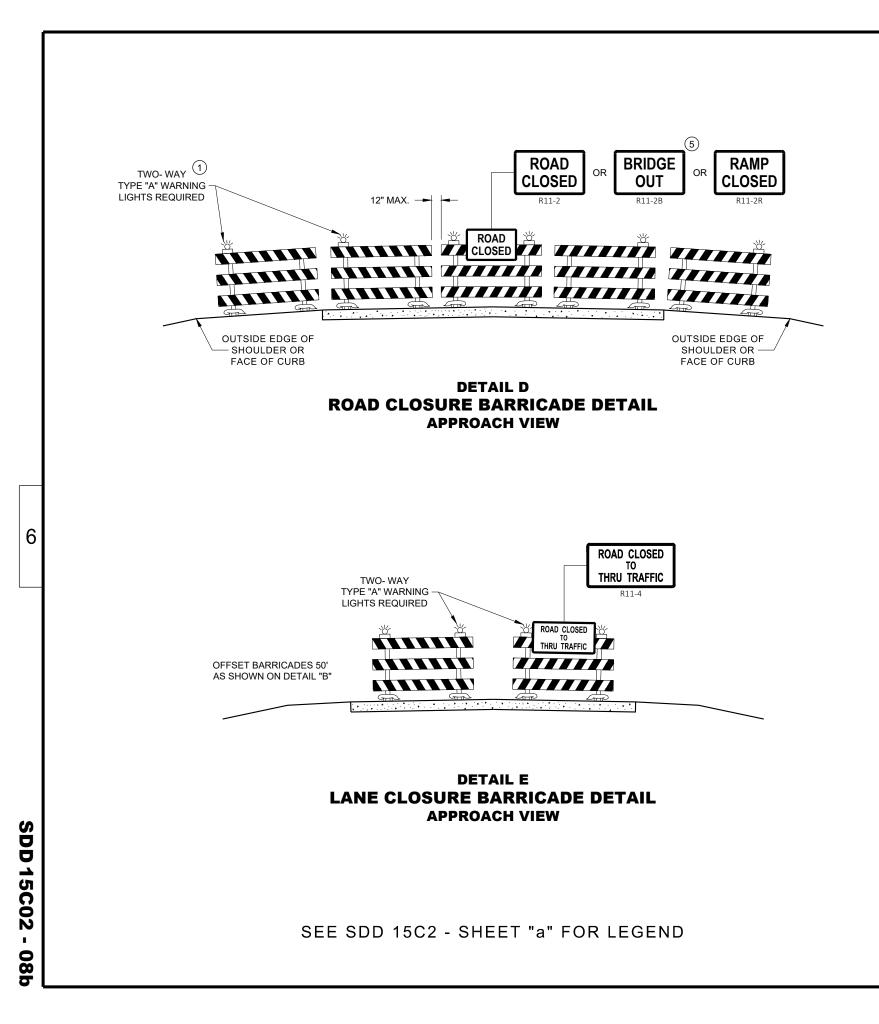
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

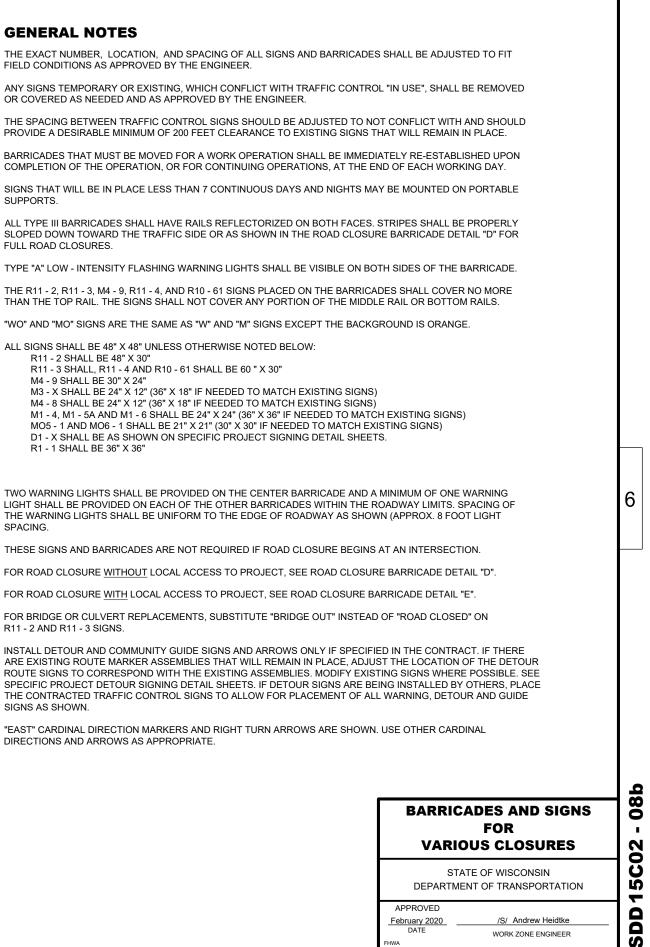
SUPPORTS.

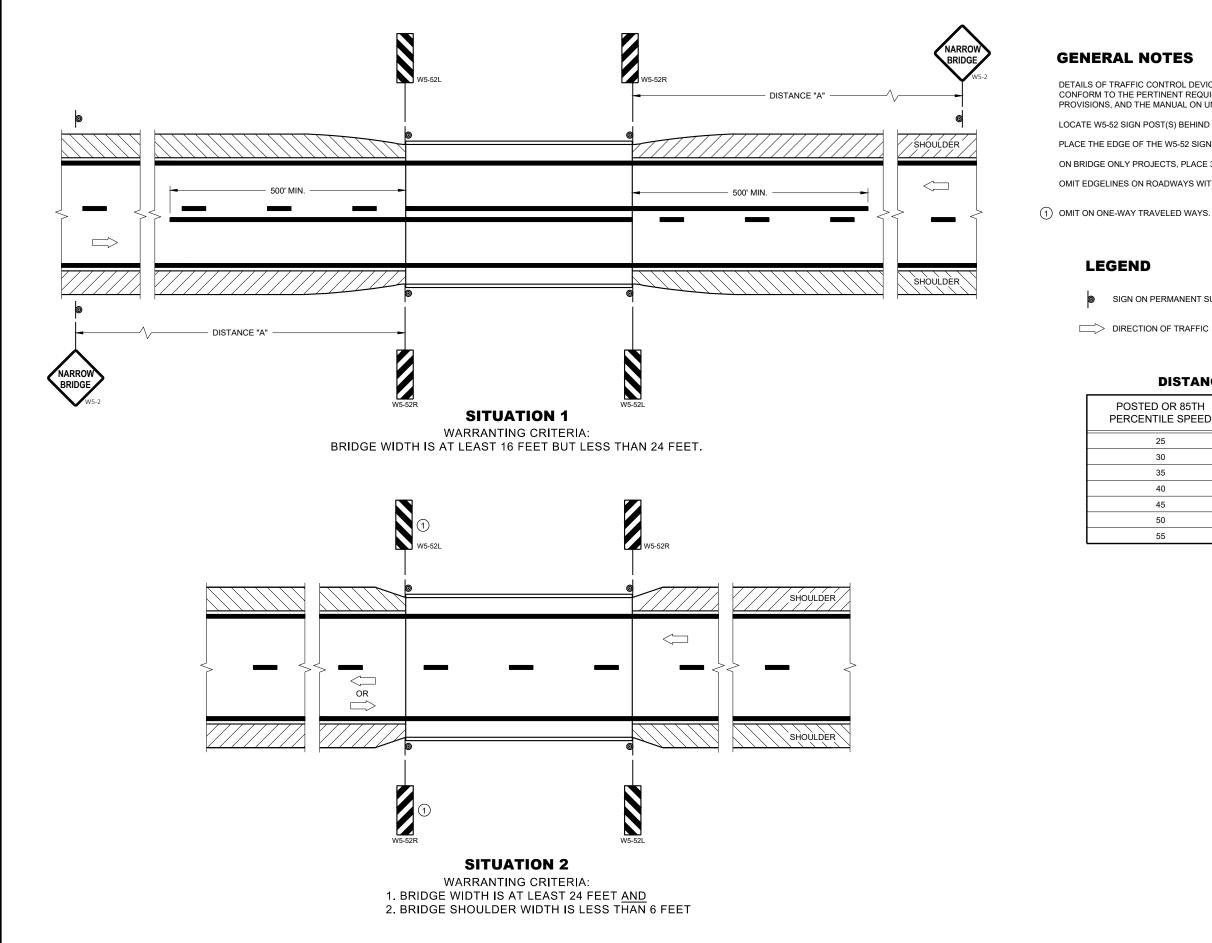
FULL ROAD CLOSURES.

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)
 - MO5 1 AND MO6 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
 - D1 X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1 - 1 SHALL BE 36" X 36"
- (1)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.





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'

6

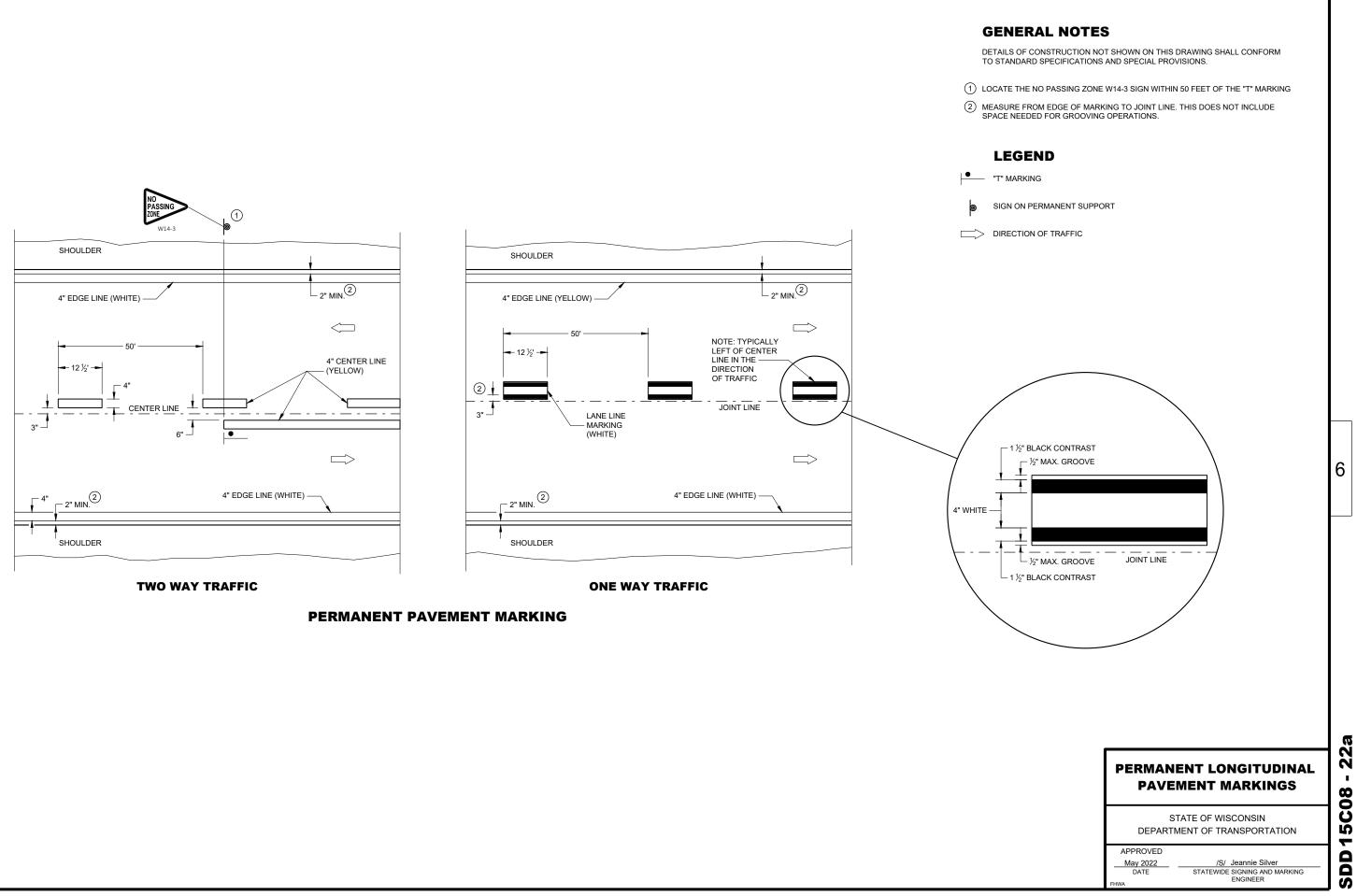
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SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2022 DATE

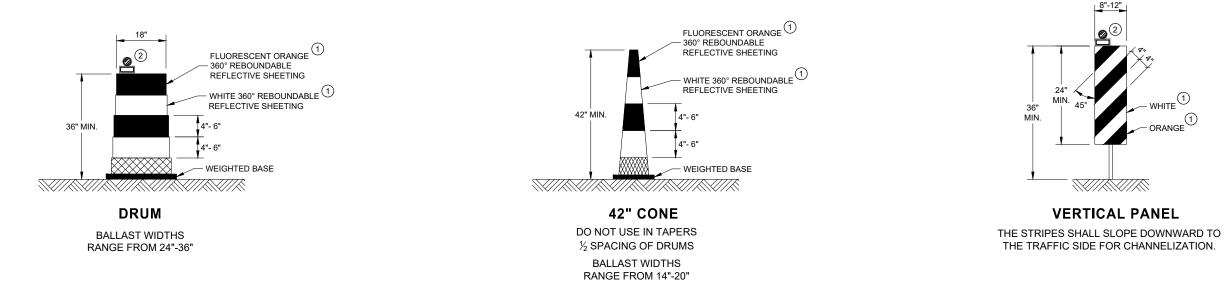
/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER

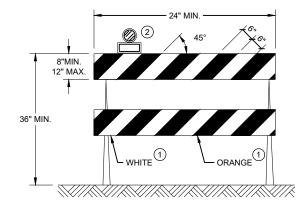


SDD 15C08 22a

GENERAL NOTES

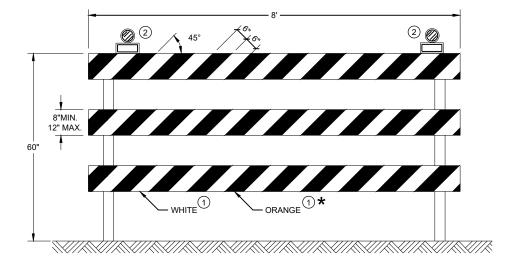
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





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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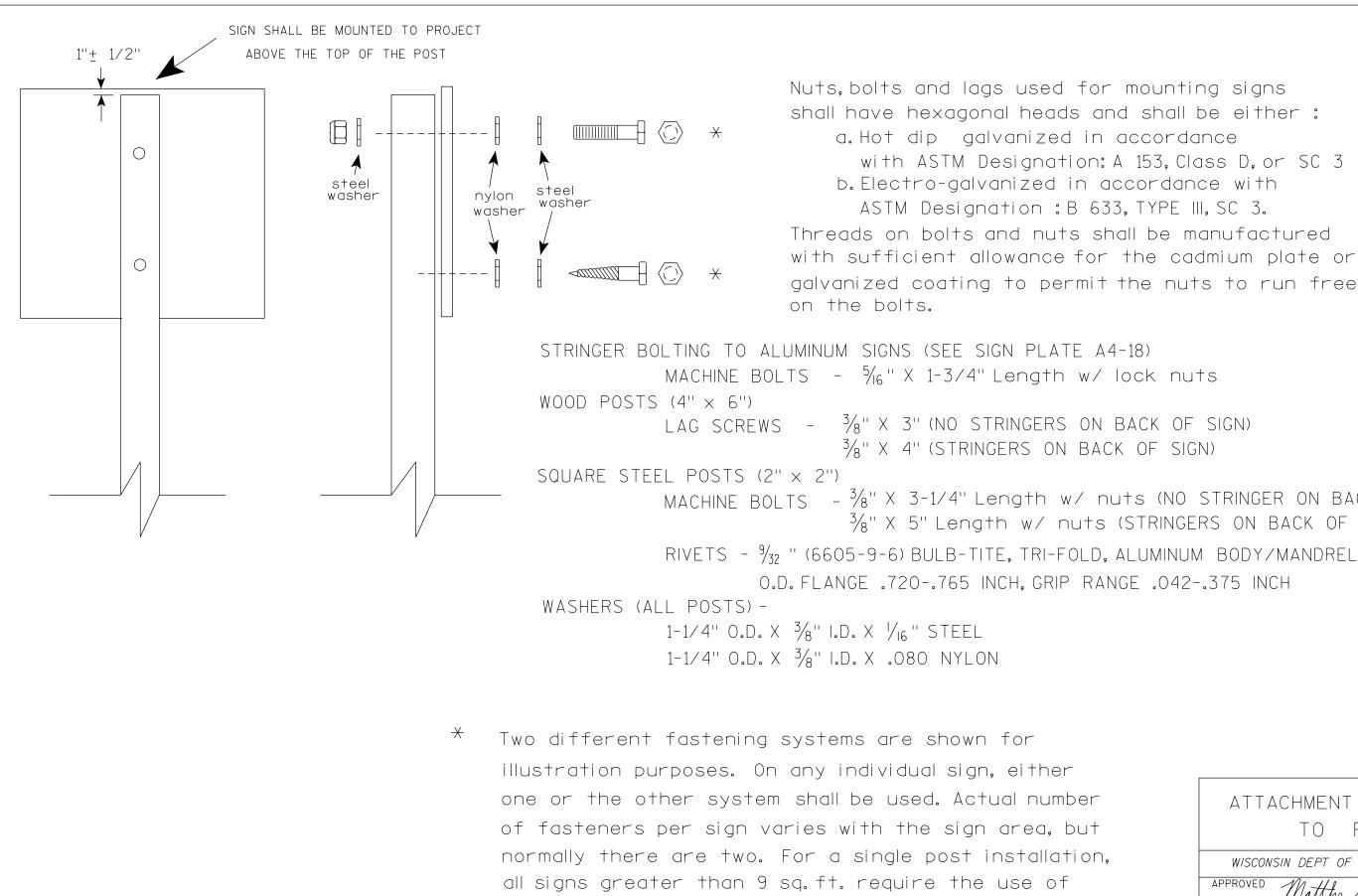
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CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER



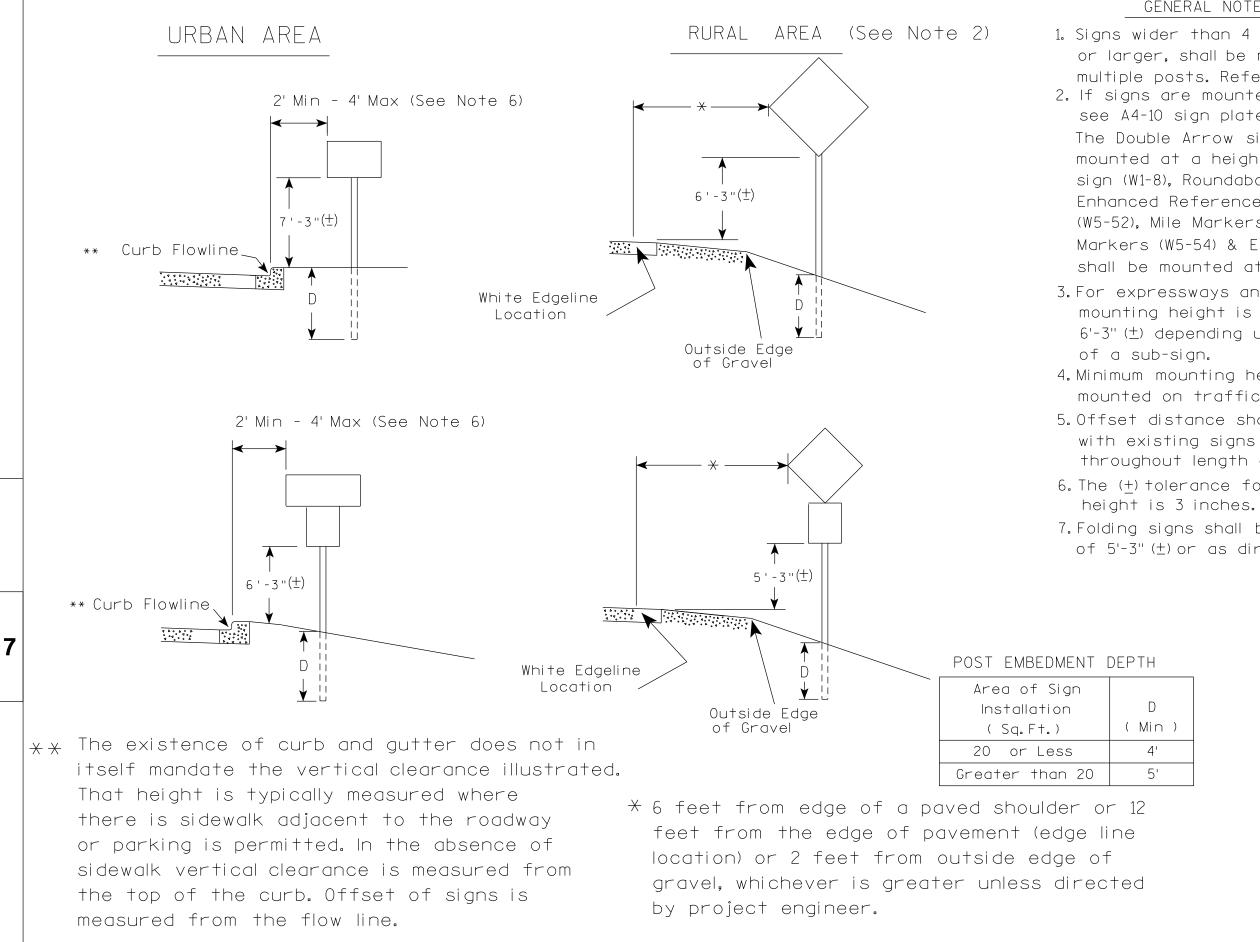
3 fasteners.

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
For State Traffic Engineer
DATE <u>4/1/202</u> 0 plate no. <u>A4-8.9</u>
SHEET NO: E

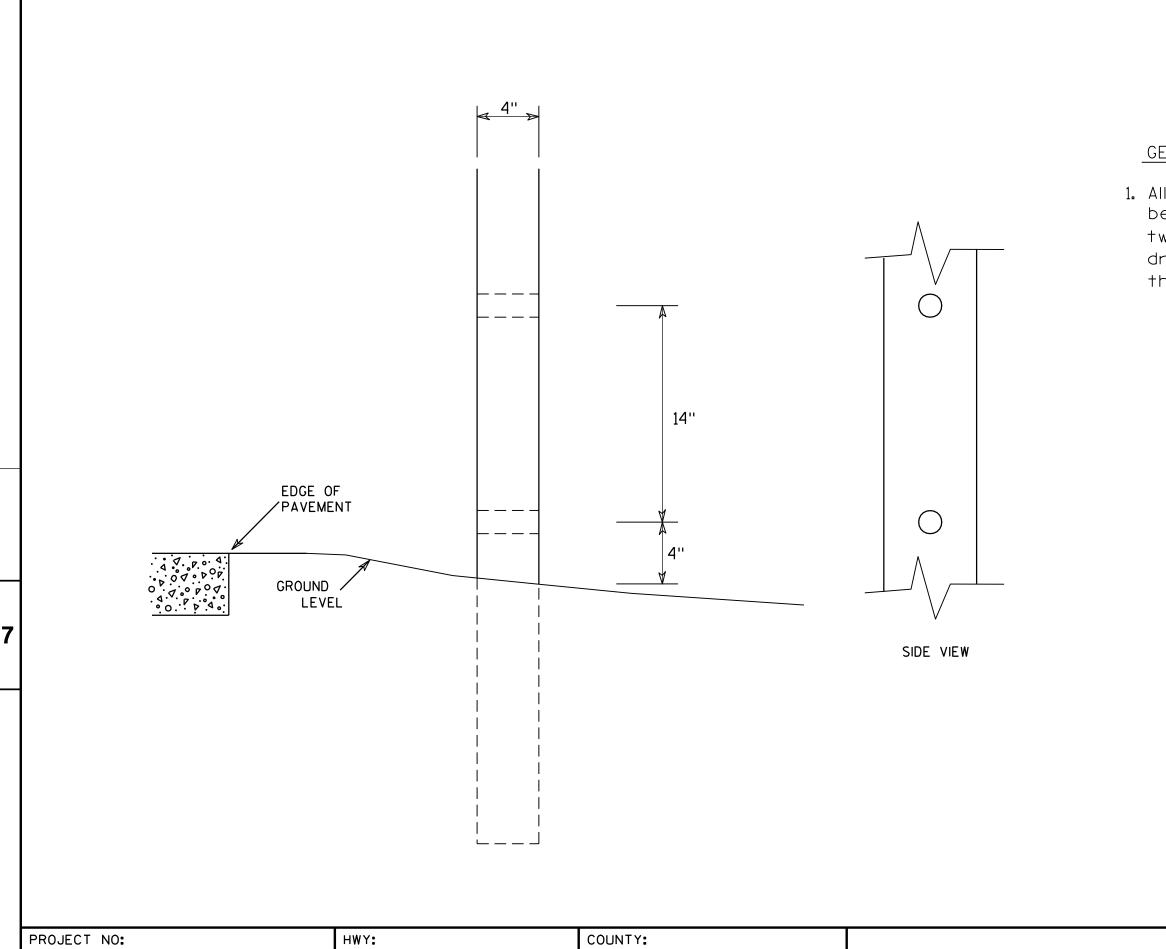


PROJECT NO:	HWY:	COUNTY:			
			DI AT DITE : 47 HUN 0000 4 0	DI OT DY IN IO	DLOT NAME -

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>44-3.22</u>
	SHEET NO: E
PLOT SCALE : \$\$	WISDOT/CADDS SHEET 42

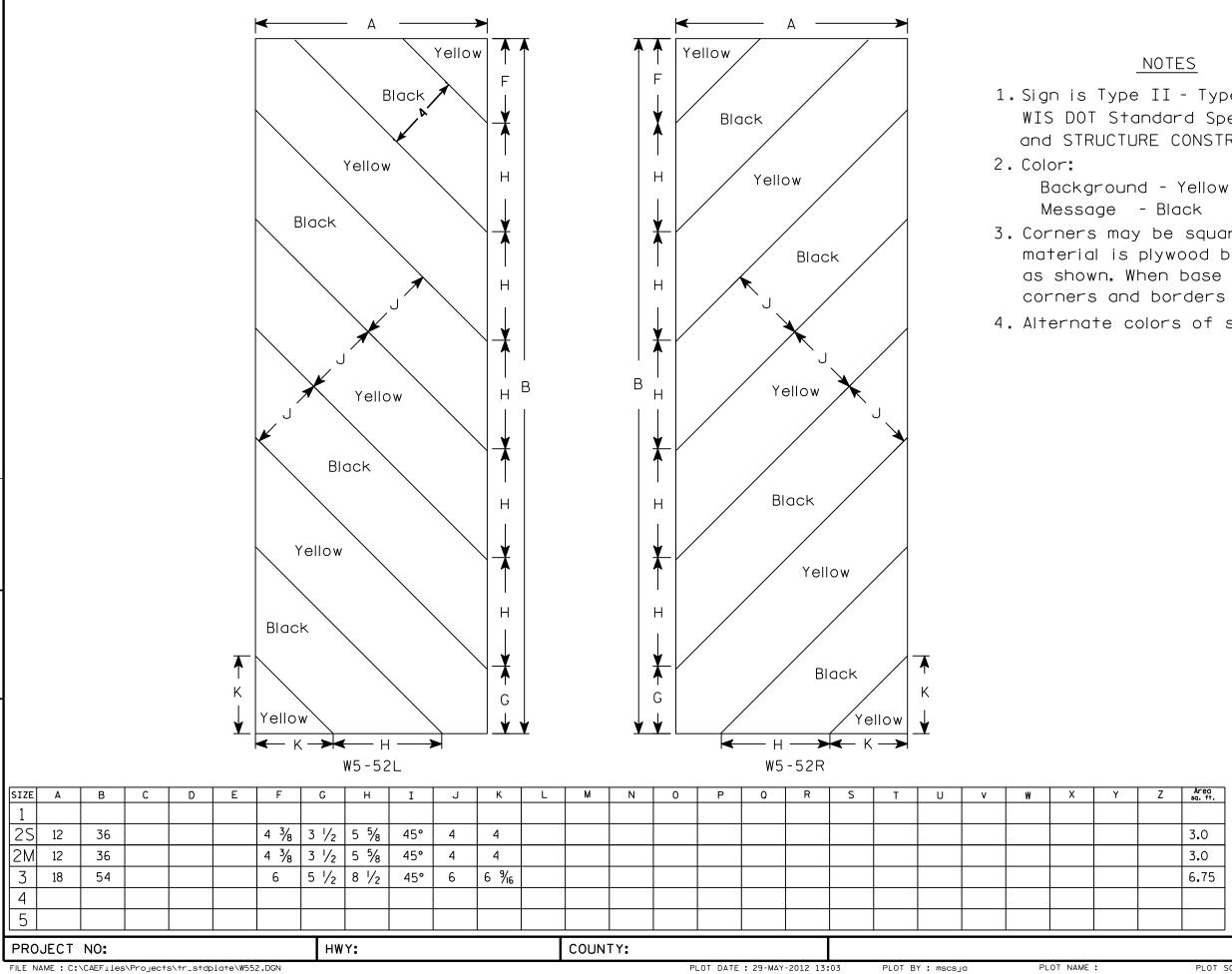


FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

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	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
	SHEET NO: E						Ε
OT SCALE	E:6.20 7 33	8:1.0000	T SCALE : 6.207338:1.000000 WISDOT/CADDS SHEET 4				



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

7

PLOT NAME :

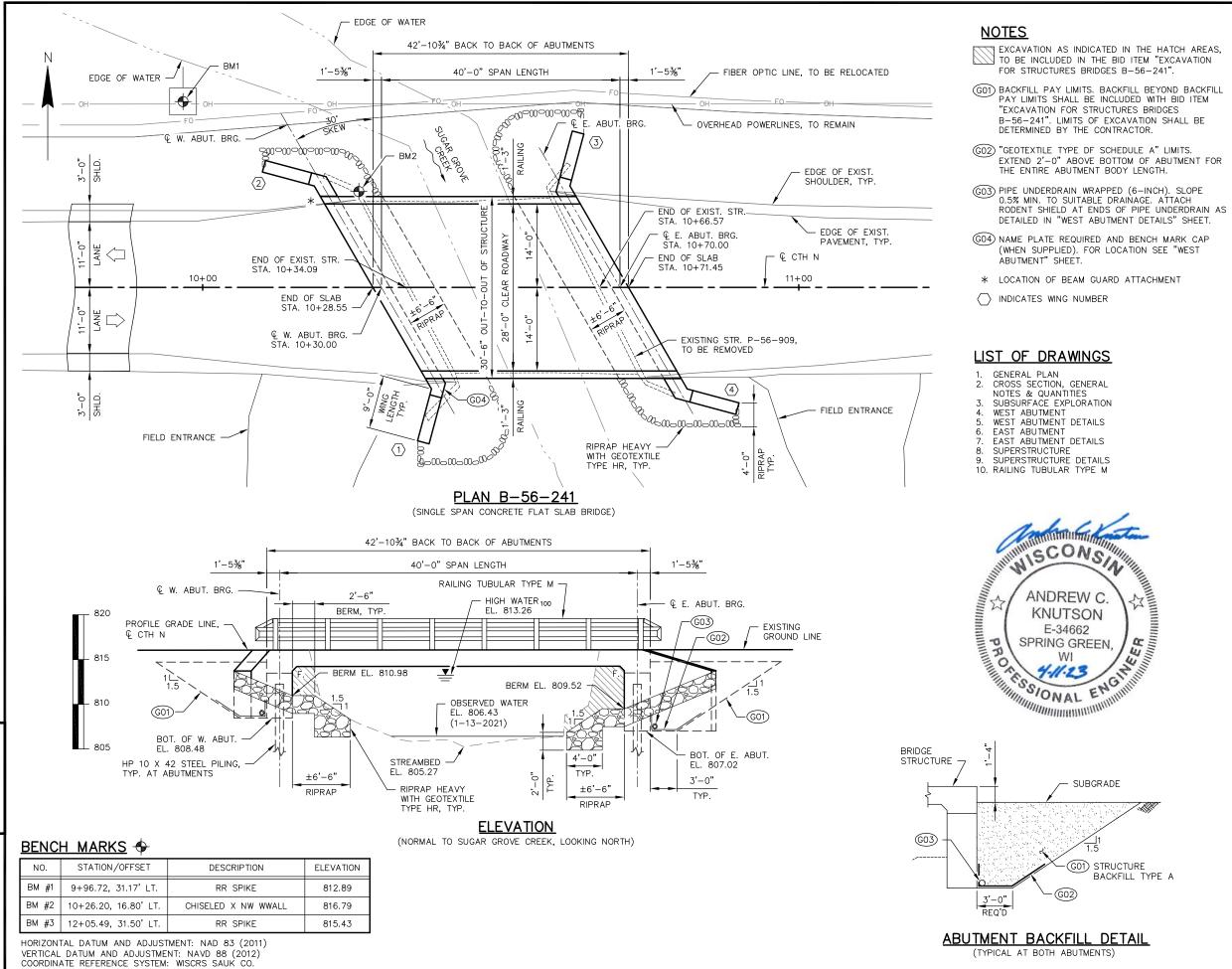
NOTES

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

5677-00-78

DESIGN DATA

LIVE LOAD:

DESIGN LOADIN INVENTORY RA OPERATING RA WISCONSIN STA VEHICLE R	TING FACTOR TING FACTOR	R R MIT	- RF=1.06 - RF=1.37
STRUCTURE IS	DESIGNED F	OR A FUT	IRE WEARING

ARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY, SLAB	f'c = 4,000 P.S.I.
HIGH-STRENGTH BAR STEEL	
REINFORCEMENT	fy = 60,000 P.S.I.

FOUNDATION DATA:

ABUTMENTS TO BE SUPPORTED ON HP 10 X 42 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 140 TONS PER PILE** AT W. ABUT. AND 160 TONS PER PILE** AT E. ABUT. AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 35 FT PILE LENGTHS AT W. ABUT. AND 35 FT PILE LENGTHS AT E. ABUT.

**THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES DYNAMIC FORMULA TO DETERMINE DRIVEN PILE CAPACITY.

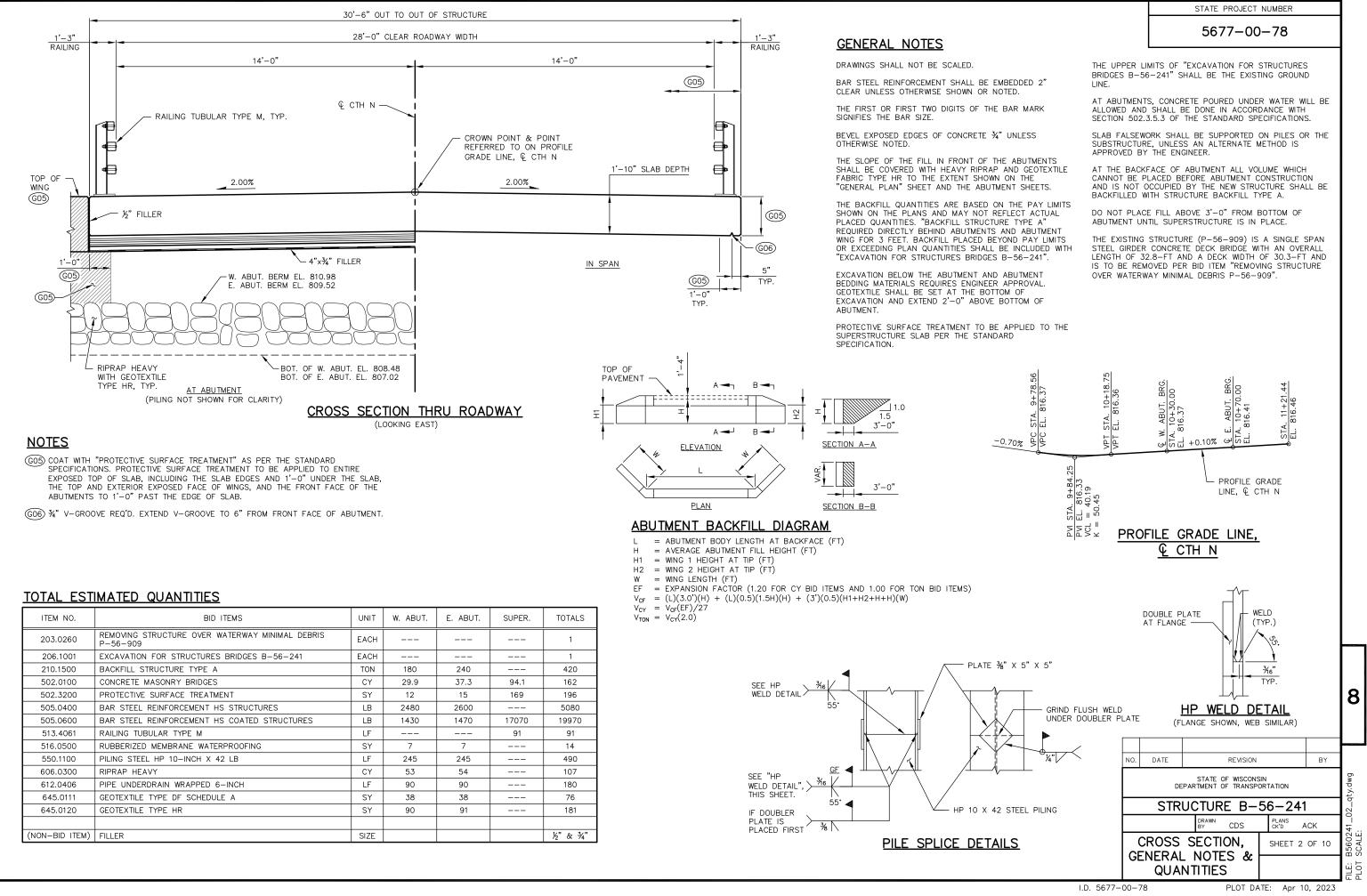
HYDRAULIC DATA:

Q ₁₀₀ 930 C.F.S. Q ₁₀₀ (THRU BRIDGE) 930 C.F.S.
0100 (TUDU DDUDOS) 030 0.5.0
Q_{100} (IHRU BRIDGE) — 930 C.F.S.
$Q_{100}(ROAD) - N/A$
DRAINAGE AREA - 6.2 SQ. MI.
BRIDGE WATER AREA 141 SQ. FT.
BRIDGE VELOCITY - 6.60 F.P.S.
HIGH WATER 100 EL 813.26 FT.
OVERTOPPING Q FREQ > 100 YRS
SCOUR CRITICAL CODE 5
Q.,267 C.F.S.
Q ₂ 267 C.F.S. Q ₂ ELEVATION 810.47 FT.
Q ₂ VELOCITY

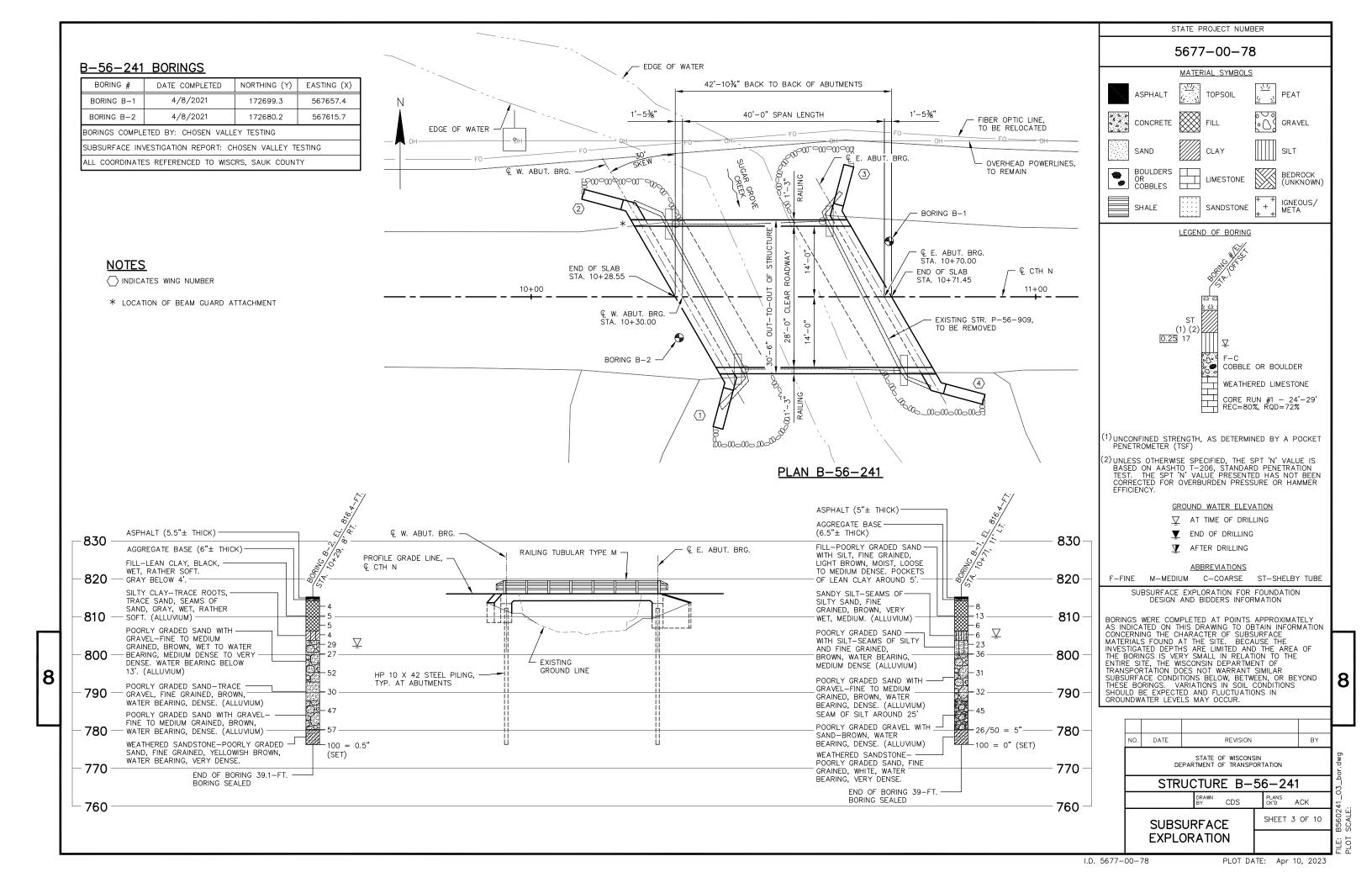
TRAFFIC DATA:

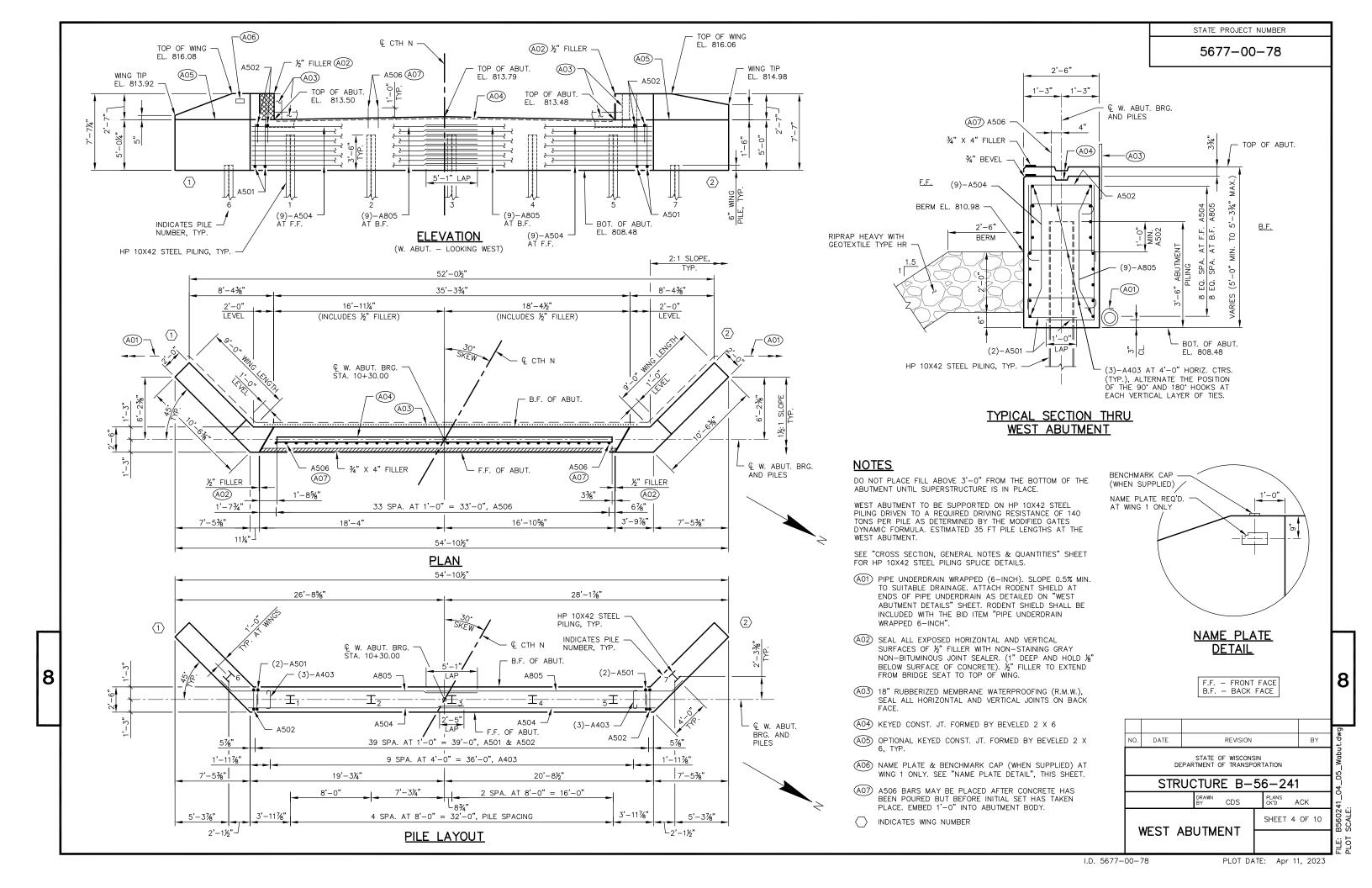
<u>CTH_N</u>
Ā.A.D.T. (2023) — 320
A.A.D.T. (2043) — 370
DESIGN SPEED - 60 M.P.H.

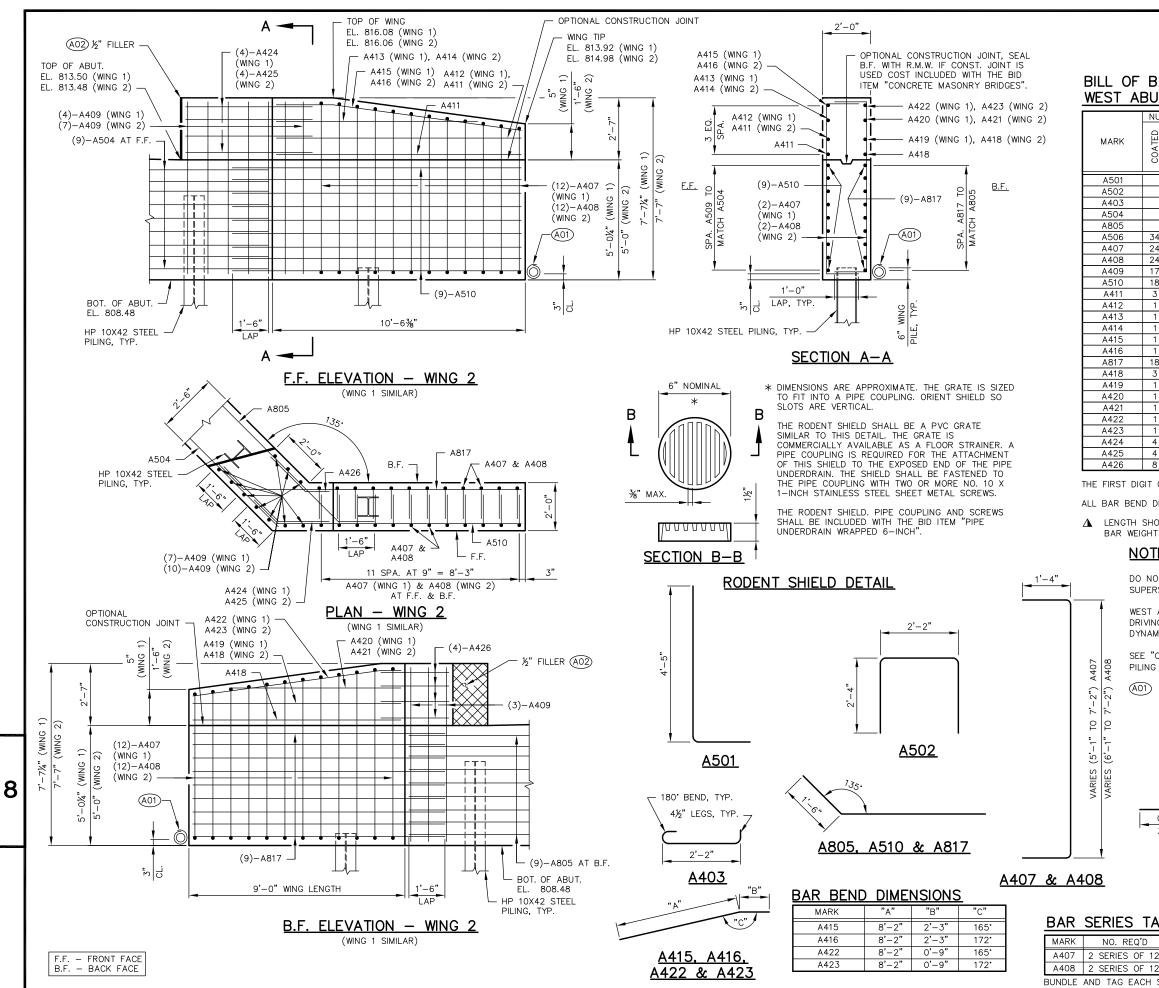
BF	AA	RON BO	<u>CE CON</u> ONK, P. 61—026 ⁻	Ε.	<u>CONSU</u> ANDY Ki (60	NUTS	<u>IT CON</u> ON, P.E 88-786	., S.E.	
	NO.	DATE		RE	VISION			BY	
	WESTBROOK 619 EAST HOXIE STREET POID BOX 429 SPRING GREEN, WI 53588 PHONE (608) 5588-7866 PASSOCIATED Engineers, Inc. FAX (608) 588-7954								
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ACCEPTED USER 05/02/23 CHIEF STRUCTURES DESIGN ENGINEER DATE						8		
		STRUCTURE B-56-241							
		CTH N OVER SUGAR GROVE CREEK						бх	
	SAUK				TOWN/ CITY/WILLAGE FRANKLIN			en.d	
		SIGN SPEC. AASHTO LRFD DESIGN SPEC.					1-9		
	DESIO BY	^{GNED} CDS	DESIGN CK'D	JDO	DRAWN BY C	DS	PLANS CK'D.	ACK	10 1
				-		HEET 1 OF 10		856024 SCALE:	
					A N I	Sł	HEET 1	OF 10	35602 SCALE
		GEN	IERA	L PL/	AN	Sł	HEET 1	OF 10	FILE: B560241_01_gen.dwg PLOT SCALE:



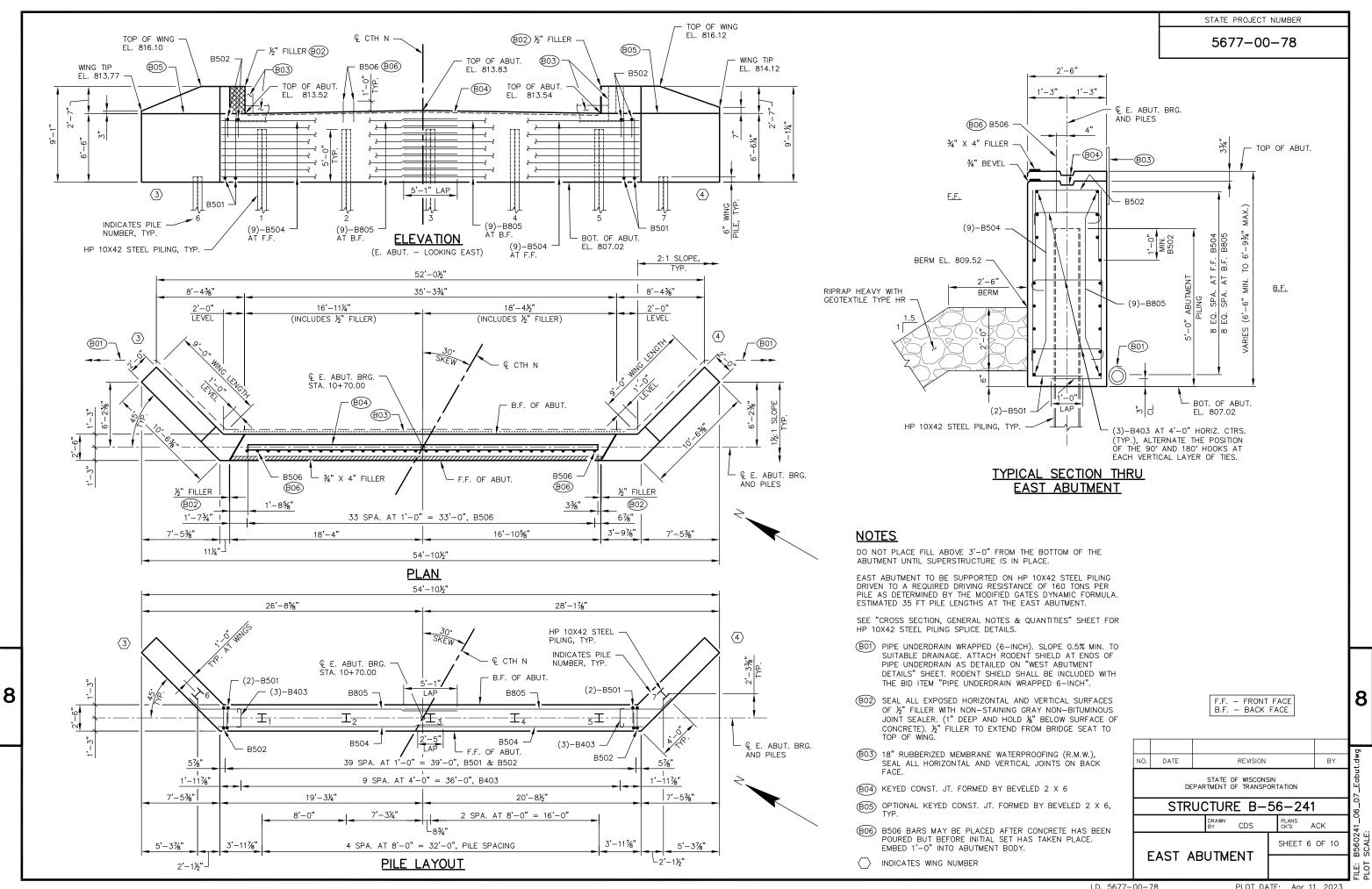


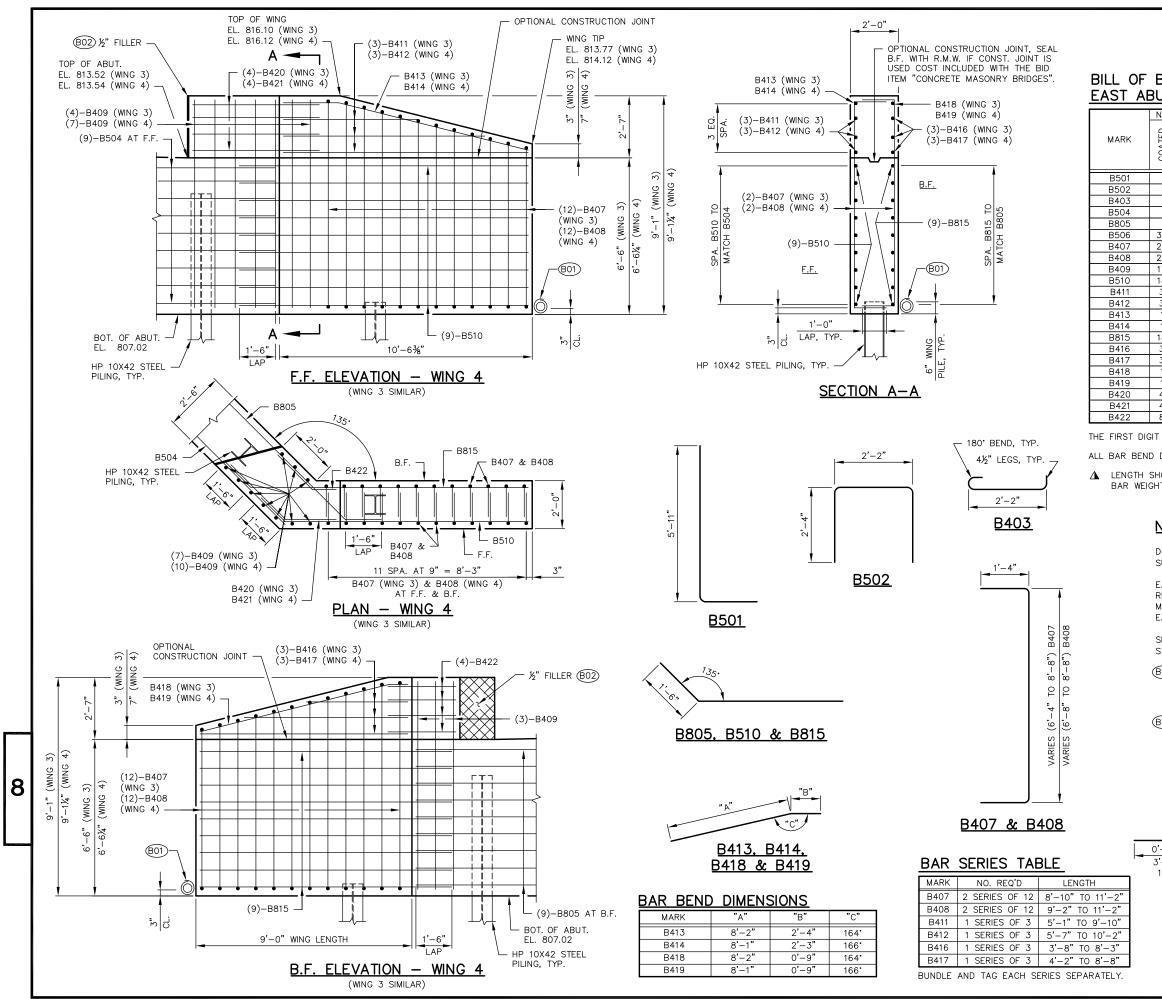




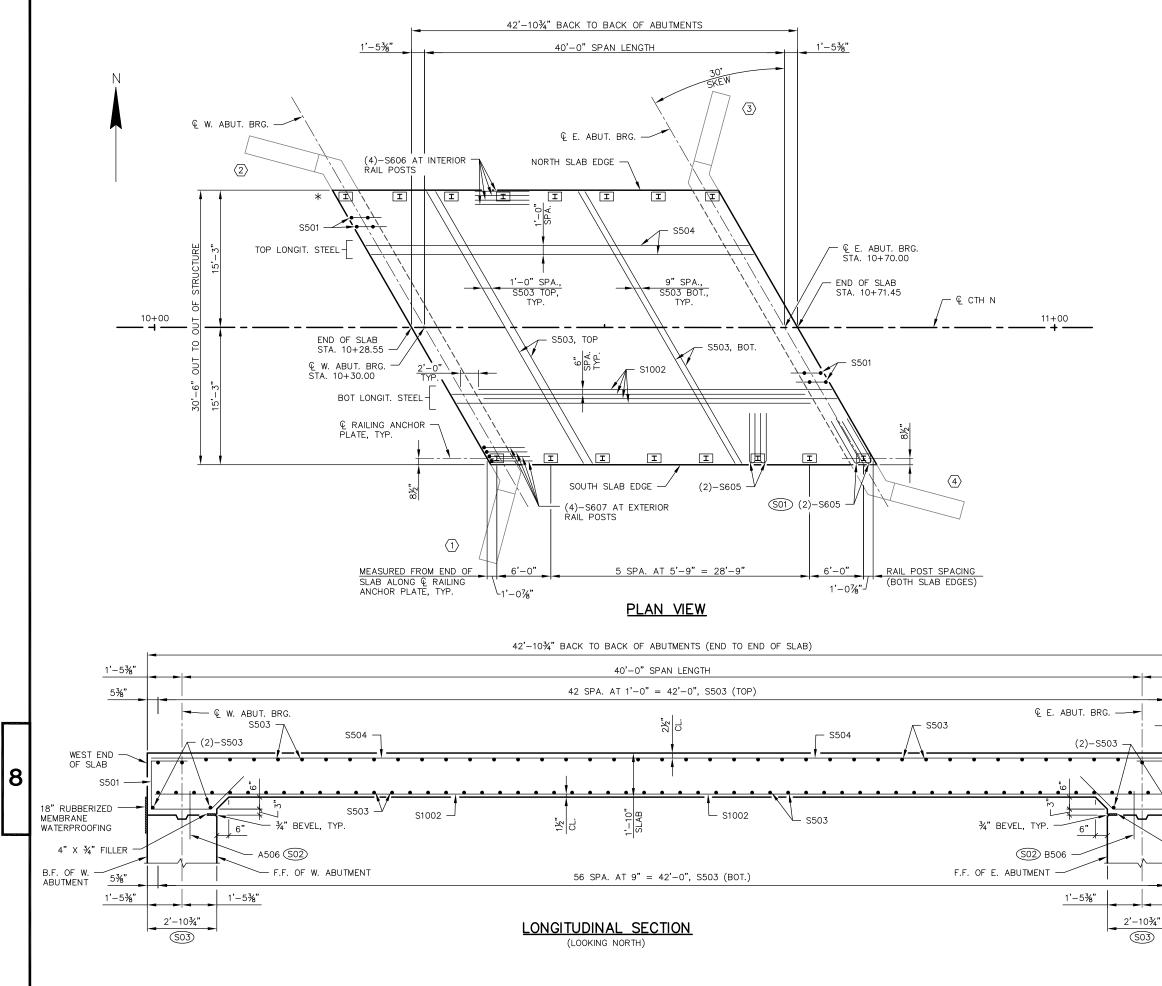


							STAT	E PR	OJEC1	r numbef	२		1
										0-78			1
	RS				L	C	COAT	ΈD	=	1,430) LE	BS.	1
JT	ME	NT				UNC	CAT	ED	=	2,480) LE	3 <u>S.</u>	1
10M	BER			ES									1
e	TED		╘	SERIE									
COATED	VO	LENGTH	BENT				LOC	ATION					1
8	UNCOATED			BAR									1
	⊃ 80	5'-11"	X		BODY - STIF		- 55	8. 0			VE	RT	1
	40	<u> </u>	X		BODY - STIF			υ.D.	•		VE		I
	30	3'-1"	X		BODY - TIES						HOF		
	18	21'-3"			BODY - F.F.						HOR		
34	18	<u>26'-1"</u> 2'-0"	X		BODY - B.F. BODY - TOF		FIS				HOF VEI		
24		8'-8"	x	Δ	WING 1 - S			. & E	3.F.		VE		
24		9'-2"	X	Δ	WING 2 - S				B.F.		VE		
17		7'-2"			WINGS 1 & 2			3.F.			VE		
8 3		<u>11'-9"</u> 10'-2"	X		WINGS 1 & 2 WINGS 1 & 2						HOF		
1		7'-11"	1		WING 1 – F.						HOR		1
1		5'-4"			WING 1 - F.F						HOF		
1		8'-4"			WING $2 - F$.						HOF		1
1 1		<u> 10'–5" </u> 10'–5"	X	$\left \right $	WING 1 - F.F.						HOF HOF		1
8		13'-3"	X		WINGS 1 & 2	2 – B.	F.				HOF		1
3		8'-8"			WINGS 1 & 2	2 – B					HOF		1
1 1		<u>6'-4"</u> 3'-11"			WING 1 - B.						HOF		1
1		<u> </u>			WING $1 - B$. WING $2 - B$.						HOF HOF		
1		8'-11"	X		WING 2 B.		TOP				HOF		1
1		8'-11"	Х		WING 2 - B						HOF		
4		2'-11"	X	\square	WING 1 - F.						HOF		1
4 8		<u>5'-7"</u> 2'-8"	X	$\left \right $	WING 2 - F. WINGS 1 & 2						HOF HOF		1
					THE BAR SIZ						1.01		1
TES OT RST AB NG MIC 'CR(G SI OF DF DF	PLAC RUCT UTME RESIS FORI DSS S PLICE PE U RAINA	E FILL ABC URE IS IN NT TO BE TANCE OF MULA. ESTI SECTION, G DETAILS. NDERDRAIN GE. ATTAC ED ON THIS	DVE PLAC SUP 140 MATE ENEF	3'-0 CE. PORI TON ED 3 RAL I APPE DDEN EET.	SERIES TABL FROM THE ED ON HP 10 S PER PILE / S FT PILE LE NOTES & QUA D (6-INCH). T SHIELD AT T SHIELD AT RODENT SHIE RAPPED 6-IN (A02)	BOTTO DX42 S AS DE NGTHS ANTITIE SLOPE ENDS ELD SF NCH".	DM OF ⁻ STEEL F TERMINI S AT TH S AT TH E 0.5% OF PIF HALL BI	THE A PILING ED BY HE WE EET F MIN. PE UNC E INC	BUTN CTHE ST A OR H TO S IDERL LUDEI	VEN TO A MODIFIE BUTMENT P 10X42 UITABLE DRAIN AS	A REG D GA STEE HE BI	TES L ID ND	
3'-	-8" A -4" A 1" A4		22	AL SO	A 45 00 A 42 00	NON JOIN BEL(FILLI	I-STAIN IT SEAL OW SUF	IING (ER. (RFACE EXTEN	GRAY 1"DI OF ND FF	NON-BIT EEP AND CONCRET ROM BRID	UMIN HOLE E.) 兆	OUS) 尨" "	3
	<u>A4</u>	<u>24. A4</u>	-	<u>,</u>	NO. DA	ΓE		RE	VISION	1		ΒY	_04_05_Wabut.dwg
	9	<u>& A42</u>	0			DEP	STATI PARTMEN	E OF N T OF 1	VISCON RANSF	ISIN PORTATION			_Wat
	LE				S	TRU	JCTU	RE	B-	-56-2	241		4_05
			-				DRAW		DS	PLANS CK'D	AC	.ĸ	
2		ENGTH	,				51	U		1			B560241
2	7'-7 8'-7	<u>70 9'-8'</u> T0 9'-8'			WES	T A	BUT	IEN	T	SHEE	т́5 С	DF 10	B560
-		SEPARATEI					TAILS		•				
													ЫLЕ Г
			I.D.	567	7-00-78			PL	OT D	ATE: Ap	or 10,	2023	





					CTATE DOO FOT MULLOSS	
					STATE PROJECT NUMBER	
					5677-00-78	
BAF	RS				COATED = 1,470	LBS.
JTM	<u>1EN</u>	Т			UNCOATED = 2,600	
NUMB	-			ES		
	UNCOATED	LENGTH	BENT	SERI	LOCATION	
COATED	CO/	LENGIN	Ш	BAR 3	LOOATION	
	80 40	$\frac{7'-5''}{6'-7''}$	X X		BODY – STIRRUP – F.F. & B.F. BODY – STIRRUP – TOP	VERT. VERT.
	30	<u> </u>	X		BODY - TIES	HORIZ.
	18	21'-3"	V		BODY - F.F.	HORIZ.
34	18	<u>26'-1"</u> 2'-0"	X		30DY – B.F. 30DY – TOP DOWELS	HORIZ. VERT.
24		10'-0"	Х		WING 3 – STIRRUP – F.F. & B.F.	VERT.
24 17		<u>10'-2"</u> 8'-8"	X	Δ	VING 4 - STIRRUP - F.F. & B.F. VINGS 3 & 4 - F.F. & B.F.	VERT. VERT.
18		11'-9"	Х		WINGS 3 & 4 - F.F.	HORIZ.
3 3		<u>7'-6"</u> 7'-11"		Δ	VING 3 — F.F. VING 4 — F.F.	HORIZ. HORIZ.
1		10'-6"	Х		WING 3 - F.F TOP	HORIZ.
1	$-\top$	10'-4"	X	-	WING 4 - F.F TOP	HORIZ.
18 3	_	<u>13'-3"</u> 6'-0"	X	Δ	VINGS 3 & 4 - B.F. VING 3 - B.F.	HORIZ. HORIZ.
3		6'-5"			WING 4 - B.F.	HORIZ.
1	+	8'-11" 8'-10"	X X	\square	VING 3 - B.F TOP VING 4 - B.F TOP	HORIZ. HORIZ.
4		2'-11"	Х		WING 3 – F.F. CORNER	HORIZ.
4 8	-+	<u>5'-7"</u> 2'-8"	X X		VING 4 - F.F. CORNER VINGS 3 & 4 - B.F. CORNER	HORIZ. HORIZ.
OF		R MARK 4	SIGNI	FIES	THE BAR SIZE.	
					Г OF BAR.	
					E LENGTH AND SHOULD ONLY BE USED FOR	
	ОТ РІ				-0" FROM THE BOTTOM OF THE ABUTMENT	JNTIL
EAST REQUI MODIF	ABU RED IED (IMENT TO DRIVING R	BE ESIS	SUPF TANC	DRTED ON HP 10X42 STEEL PILING DRIVEN TO E OF 160 TONS PER PILE AS DETERMINED BY MULA. ESTIMATED 35 FT PILE LENGTHS AT 1	′ THE
		S SECTION			L NOTES & QUANTITIES" SHEET FOR HP 10X	42
301)	DRA DET/ BE I	INAGE. AT AILED ON NCLUDED	TACH "WES WITH	H ROI ST AE I THE	PED (6-INCH). SLOPE 0.5% MIN. TO SUITABL ENT SHIELD AT ENDS OF PIPE UNDERDRAIN UTMENT DETAILS" SHEET. RODENT SHIELD SH BID ITEM "PIPE UNDERDRAIN WRAPPED 6-IN	AS ALL CH".
302)	WITH AND	I NON-ST. HOLD 1/8"	AININ BEL	IG GF .OW S	NZONTAL AND VERTICAL SURFACES OF ½" FI AY NON-BITUMINOUS JOINT SEALER. (1" DEE JRFACE OF CONCRETE.) ½" FILLER TO EXTEN TOP OF WING.	P -
					F.F. – FRONT FACE	
	ŕ	135		420 842 842	B.F. – BACK FACE	
	, B420		Ŷ.	ġ		
'—4" 11" В		-1.			NO. DATE REVISION	BY t
0	TLL				STATE OF WISCONSIN	40.
<u>B</u> ₄		<u>, B42</u>	<u>1,</u>		DEPARTMENT OF TRANSPORTATION	Ľ
	<u>&</u>	<u>B422</u>			STRUCTURE B-56-2	41 g
					DRAWN BY CDS PLANS CK'D	ACK 5
					SHEET	ВУ ВУ 41 АСК 7 ОГ 10
					EAST ABUIMENT	
					DETAILS	ن 5
					–00–78 PLOT DATE: Apr	u



STATE PROJECT NUMBER

5677-00-78

NOTES

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY.

BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

RAILING TO BE INSTALLED ON THE SLAB AFTER FALSEWORK HAS BEEN RELEASED.

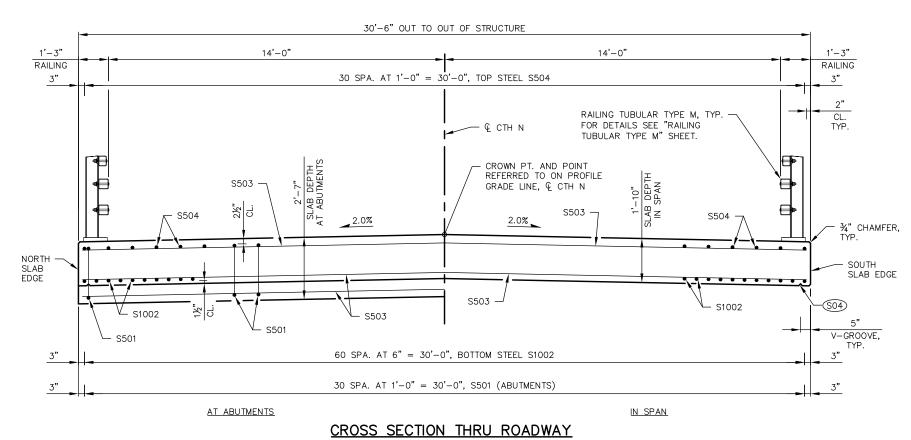
(S01) ADJUST ORIENTATION OF S605 BAR AT END POST NEAR WINGS 2 & 4 TO ENSURE CLEAR COVER AT END OF SLAB.

(S02) SEE "WEST ABUTMENT" SHEET FOR PLACEMENT OF A506 BARS AND SEE "EAST ABUTMENT" SHEET FOR PLACEMENT OF B506 BARS.

(\$03) DIMENSION IS TAKEN PARALLEL TO € CTH N.

- * LOCATION OF BEAM GUARD ATTACHMENT
- \bigcirc INDICATES WING NUMBER

1'−5¾"									
5 <u>3</u> %"									
2"									
CL. TYP.									
EAST END		г		-					
OF SLAB			F.F. – FRONT FAC B.F. – BACK FACE			8			
		_				၊၀၊			
18" RUBBERIZED									
WATERPROOFING									
4" X ¾" FILLER	NO.	DATE	REVISION		BY	r.dwg			
5¾" B.F. OF E. ABUTMENT		DE	STATE OF WISCONS	SIN ORTATION		_super.dwg			
1'-5¾"		STR	UCTURE B-	56-241		60_8			
n 			drawn by JDO	PLANS CK'D A	ACK	B560241_08. SCALE:			
	SHEET 8 OF 10								
		UPERS	TRUCTURE			FILE: B PLOT S			
I.D. 5677-	-00-	78	PLOT DA	TE: Apr 1	0, 2023	ււև			

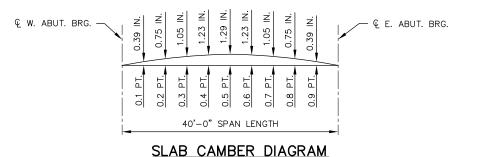


(LOOKING EAST)

SURVEY TOP OF SLAB ELEVATIONS

	€ W. ABUT. BRG.	5/10 PT.	€ E. ABUT. BRG.
NORTH SLAB EDGE			
€ CTH N			
SOUTH SLAB EDGE			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE & OF ABUTMENTS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND REFERENCE LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.



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

TOP OF SLAB ELEVATION AT FINAL GRADE SLAB THICKNESS

LESS PLUS CAMBER

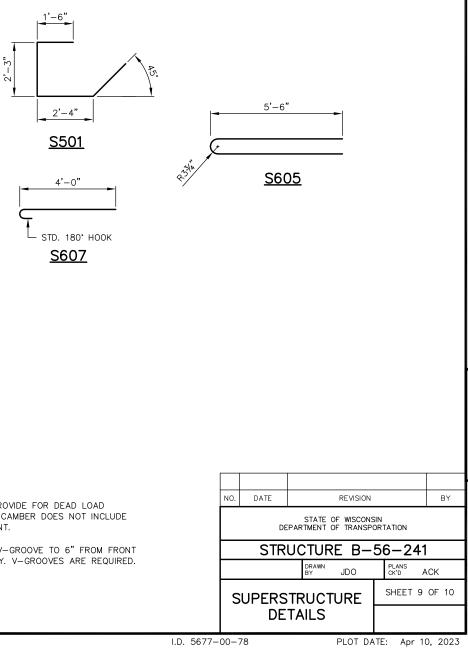
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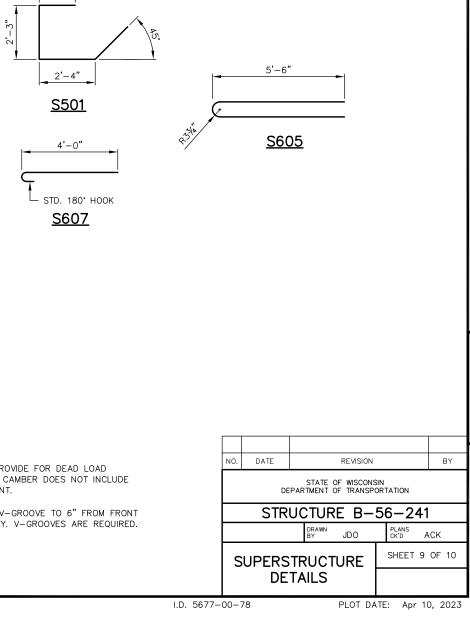
FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR) PLUS EQUALS TOP OF SLAB FALSEWORK ELEVATION.

TOP OF SLAB ELEVATIONS NORTH SLAB SOUTH SLAB € CTH N SPAN PT EDGE EDGE € W. ABUT 816.06 816.37 816.08 816.07 816.08 0.1 816.37 0.2 816.07 816.09 816.38 0.3 816.07 816.38 816.09 0.4 816.08 816.39 816.10 0.5 816.08 816.39 816.10 0.6 816.39 816.09 816.10 0.7 816.09 816.40 816.11 0.8 816.09 816.40 816.11 0.9 816.10 816.41 816.11 € E. ABUT. 816.10 816.41 816.12

BILL OF BARS

SUPER	-	 -			COATED = 17,07	0 LBS
MARK	COATED R	LENGTH	BENT	BAR SERIES	LOCATION	
S501	62	7'-7"	Х		SLAB AT ABUTMENT - TIES	LONGIT.
S1002	61	39'-3"			SLAB – BOTTOM	LONGIT.
S503	104	34'-10"			SLAB - TOP & BOTTOM	TRANS.
S504	31	42'-6"			SLAB – TOP	LONGIT.
S605	32	12'-0"	Х		SLAB – TOP AT RAIL POSTS	TRANS.
S606	48	6'-0"			SLAB – TOP AT INTERIOR RAIL POSTS	LONGIT.
S607	16	4'-8"	Х		SLAB – TOP AT EXTERIOR RAIL POSTS	LONGIT.





8

SC SC

U F - -

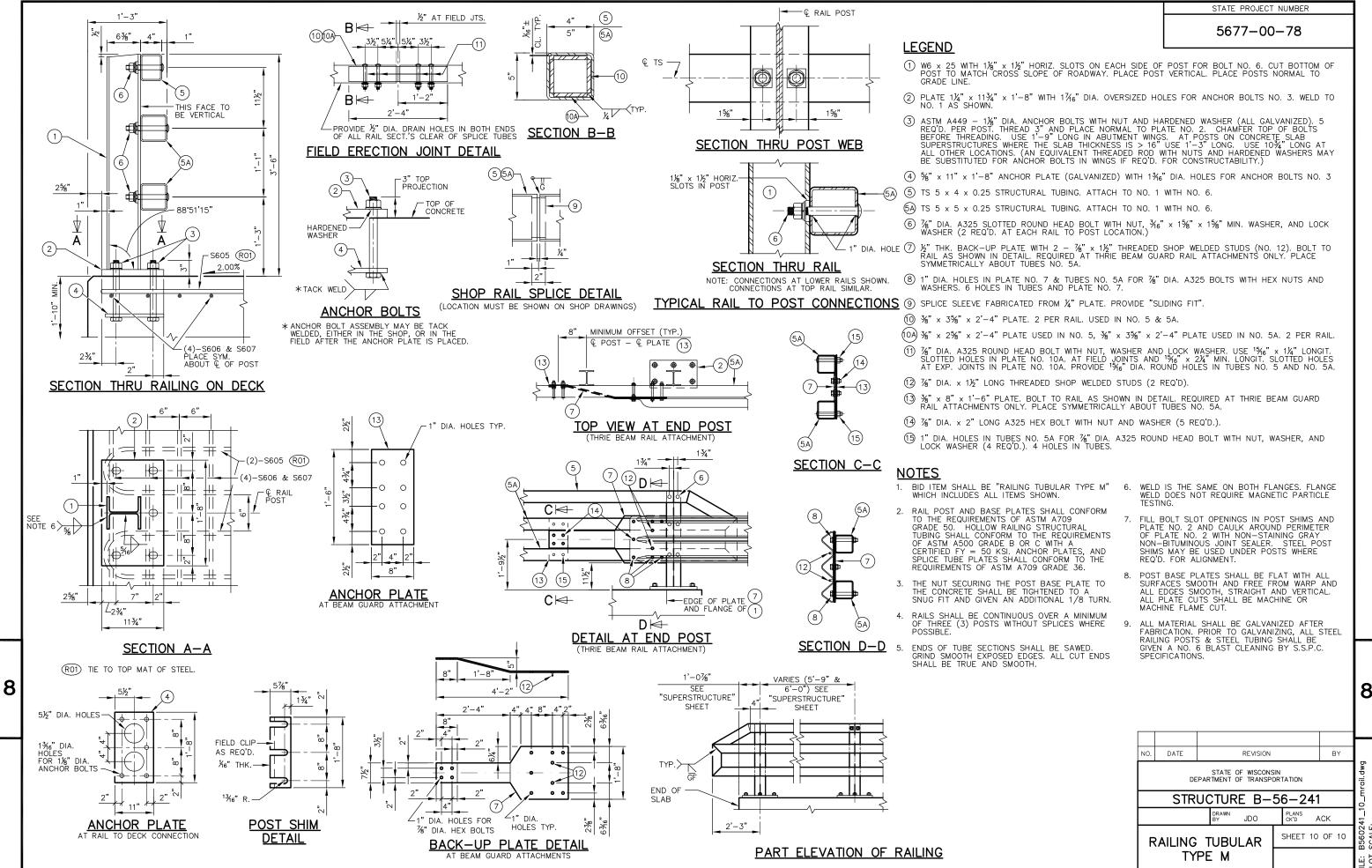
CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

¾" V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT S04 FACE OF ABUTMENT BODY. V-GROOVES ARE REQUIRED.

STATE PROJECT NUMBER

5677-00-78

THE FIRST OR FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE. ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.



PLOT DATE: Apr 10, 2023

127

			AREA (SF)		INCREM	IENTAL VOL (CY) (UNADJ	USTED)	CUMUL		
STATION	DISTANCE	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT Note 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL Note 2	FILL Note 3	CUT 1.00 Note 1	EXPANDED FILL 1.25	MASS ORDINATI Note 4
08+12.87		12.24	0.00	0.00	0	0	0	0	0	0
08+50.00	37.13	12.48	0.00	0.00	17	0	0	17	0	17
09+00.00	50.00	11.83	0.00	0.74	23	0	1	40	1	38
09+30.49	30.49	11.16	0.00	1.81	13	0	1	53	3	50
09+50.00	19.51	10.56	0.00	1.97	8	0	1	61	4	57
09+55.47	5.47	10.76	0.00	1.17	2	0	0	63	4	59
09+78.55	23.08	10.63	0.00	0.00	9	0	1	72	5	67
09+78.57	0.02	53.60	9.25	0.00	0	0	0	72	5	67
10+00.00	21.43	64.18	9.68	0.00	47	8	0	119	5	105
10+10.03	10.03	57.34	10.66	0.04	23	4	0	142	5	124
10+10.04	0.01	56.78	10.66	0.04	0	0	0	142	5	124
10+18.73	8.69	54.12	11.59	0.00	18	4	0	160	5	138
10+36.06	17.33	5.28	0.16	2.61	19	4	1	179	6	152
10+36.07	0.01	5.28	0.16	2.61	0	0	0	179	6	152
10+38.39	2.32	0.00	0.00	0.00	0	0	0	179	6	152
				STR	UCTURE E	3-56-0241				
			DIVISION 1 TOTALS		179	20	5			

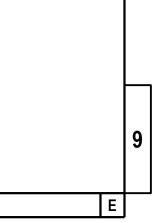
			AREA (SF)		INCREM	1ENTAL VOL (CY) (UNADJ	USTED)	CUMUL	ATIVE VOL (CY)	
STATION	DISTANCE	сит	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT Note 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL Note 2	FILL Note 3	CUT 1.00 Note 1	EXPANDED FILL 1.25	MASS ORDINATE Note 4
				STR	UCTURE B	-56-0241				
10+61.61	-	0.00	0.00	0.00	0	0	0	0	0	0
10+63.94	2.33	10.71	0.94	0.00	0	0	0	0	0	0
10+81.27	17.33	51.18	11.45	0.00	20	4	0	20	0	16
10+89.97	8.70	55.63	10.99	0.00	17	4	0	37	0	29
10+89.98	0.01	56.40	10.99	0.00	0	0	0	37	0	29
11+00.00	10.02	60.73	10.50	0.00	22	4	0	59	0	47
11+21.45	21.45	61.10	9.46	0.00	48	8	0	107	0	87
			DIVISION 2 TOTALS		107	20	0			
			PROJECT TOTALS		286	40	5			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT N	TAT THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[(CUT)-(FILL*FILL FACTOR)-(SALVAGED/UNUSABLE PAVEMENT MATERIAL)]

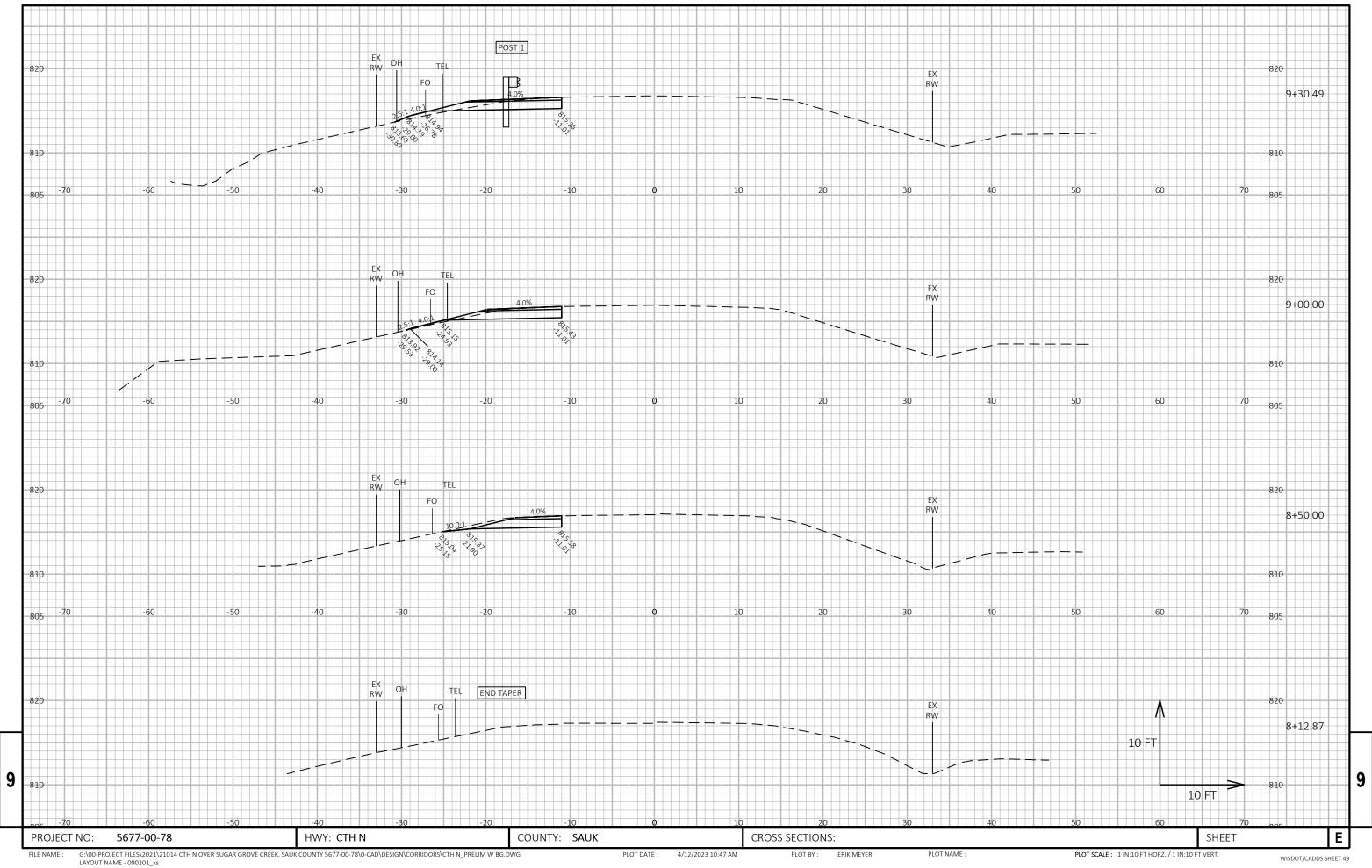
PROJECT NO: 5677-00		HWY: CTH N	COUNTY: SAUK			EARTHWORK DA	ATA		
FILE NAME : G:\00-PROJECT FILES\2021	\21014 CTH N OVER SUGAR GROVE CREEK, SAU		PLOT DATE :	2/16/2023 8:42 AM	PLOT BY :	ERICA BAUER	PLOT NAME :		

LAYOUT NAME - 090101_ew

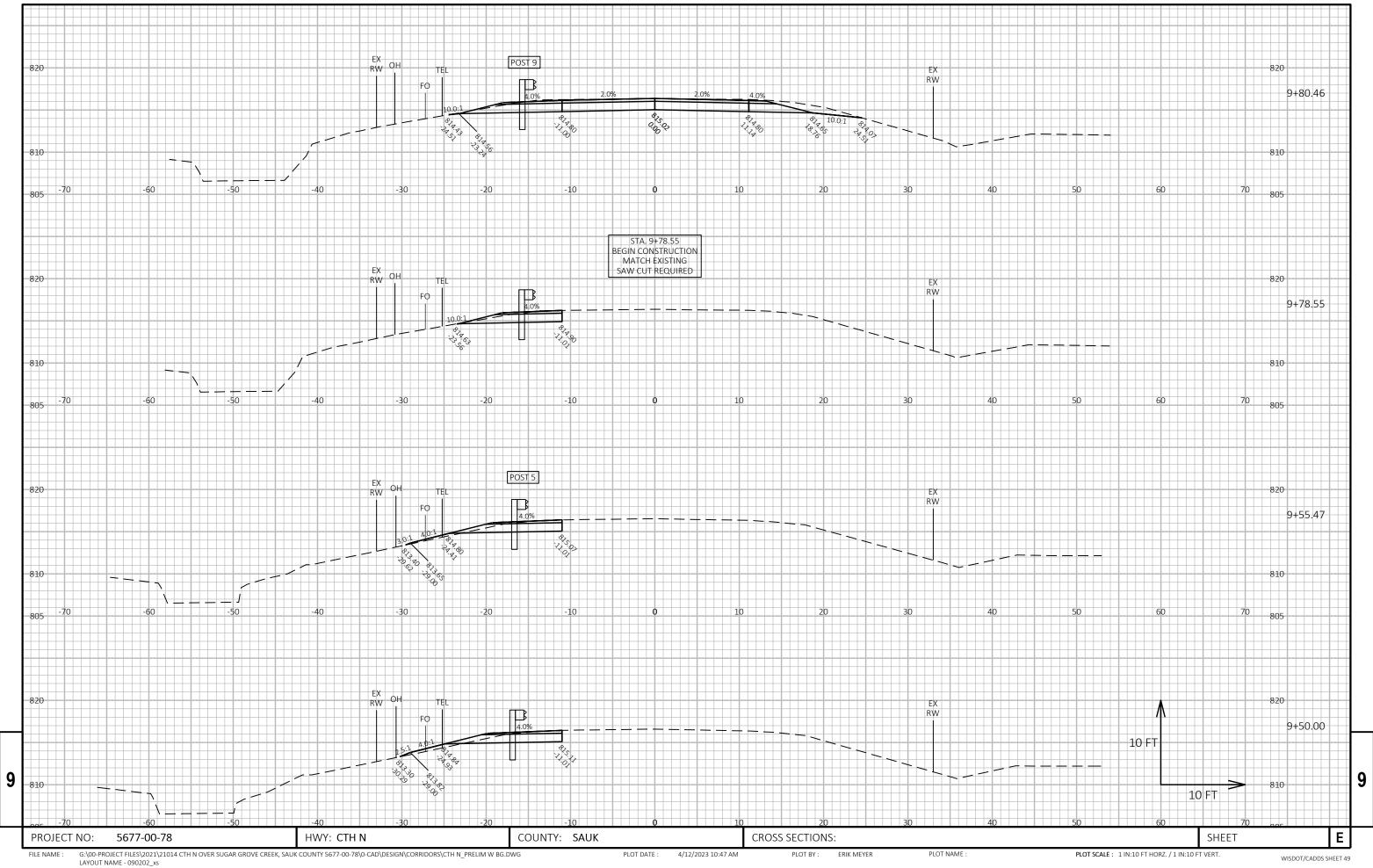
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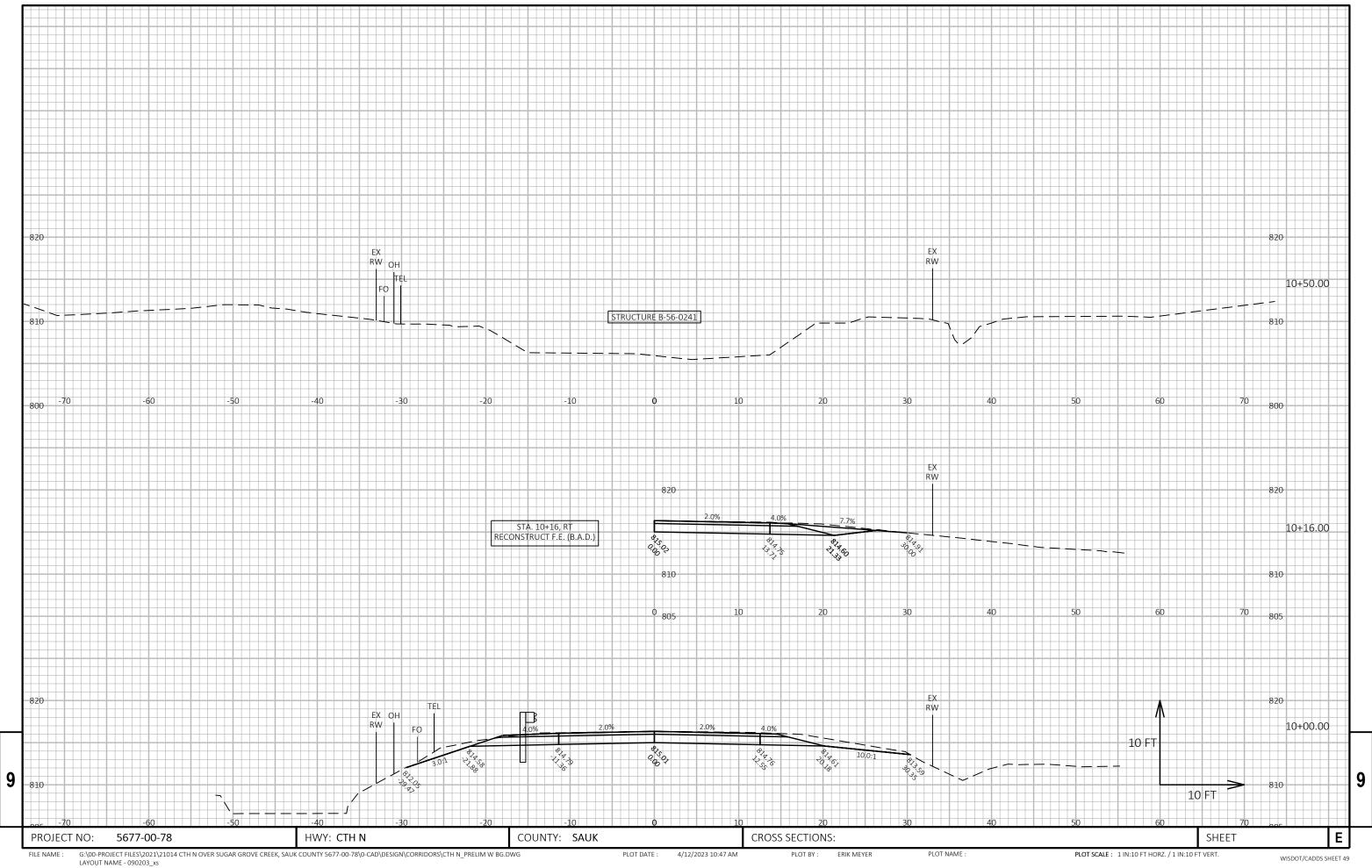
SHEET



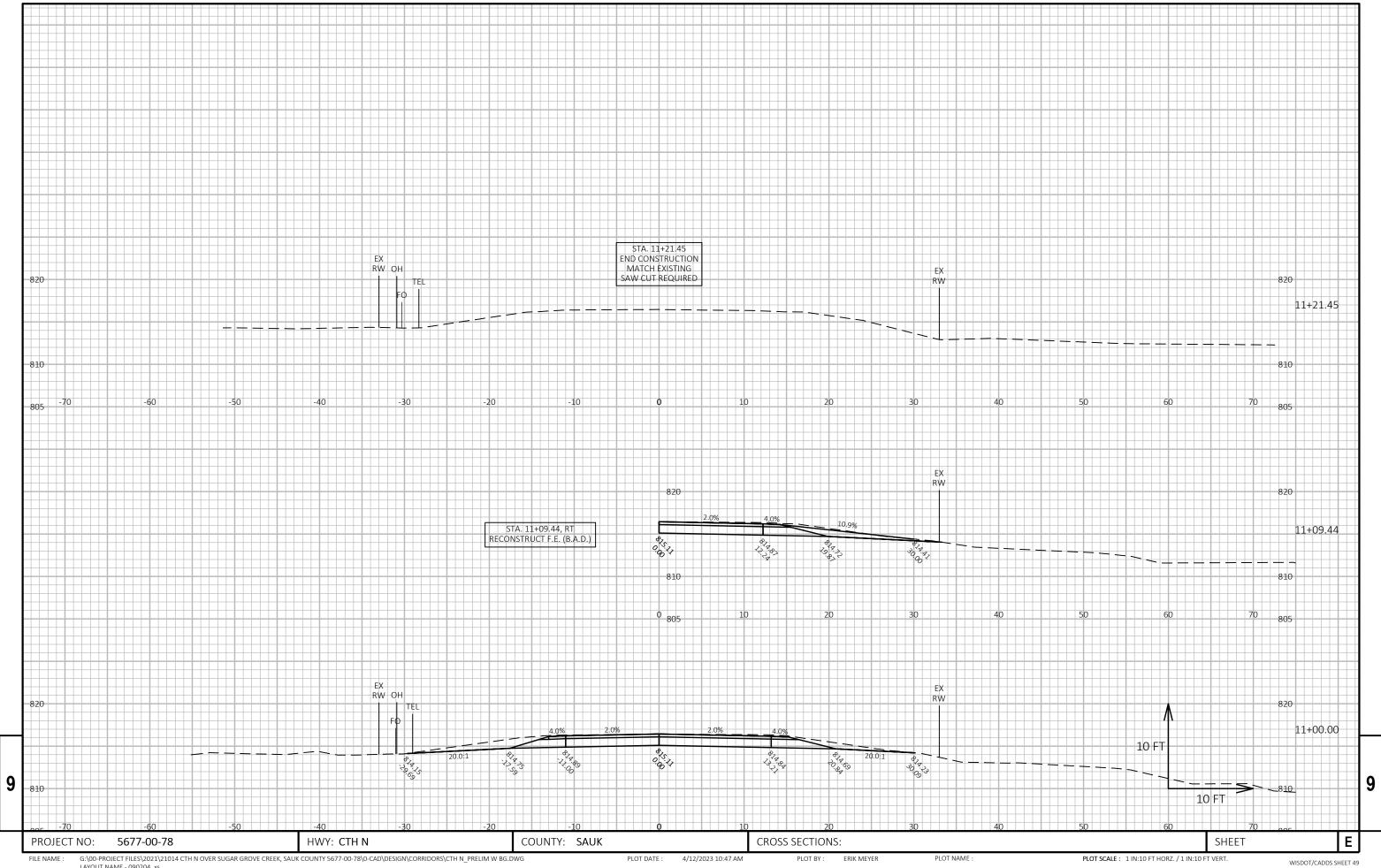
WISDOT/CADDS SHEET 49



WISDOT/CADDS SHEET 49

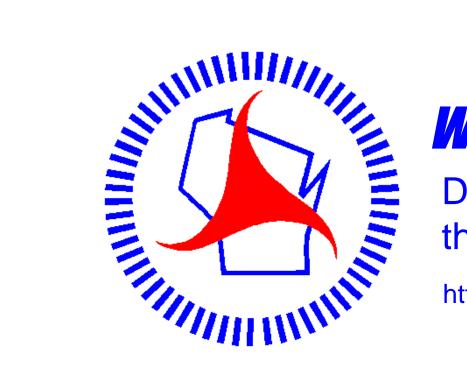


WISDOT/CADDS SHEET 49



G:\00-PROJECT FILES\2021\21014 CTH N OVER SUGAR GROVE CREEK, SAUK COUNTY 5677-00-78\0-CAD\DESIGN\CORRIDORS\CTH N_PRELIM W BG.DWG LAYOUT NAME - 090204_xs

4/12/2023 10:47 AM



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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