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PLAN OF PROPOSED IMPROVEMENT

### FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 3678-00-70 WISC 2024430

## T DUNN - T PLEASANT SPRINGS (CTH MN)

DOOR CREEK BRIDGE, B-13-0915

# **CTH MN**

STATE PROJECT NUMBER 3678-00-70

**DANE COUNTY** 

Cross Sections

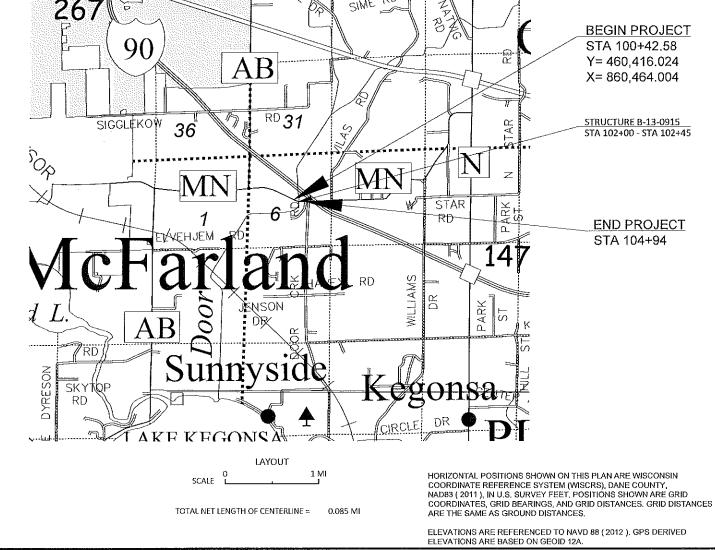
### DESIGN DESIGNATION 3678-00-00

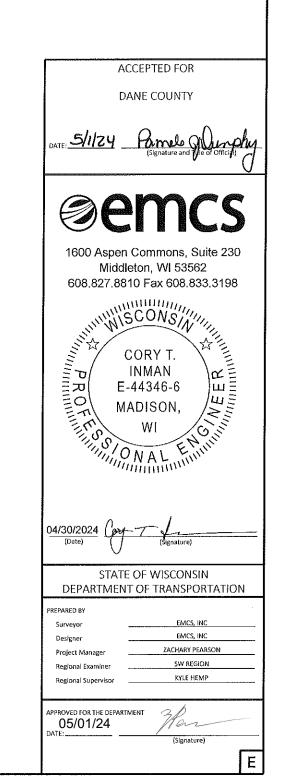
A.A.D.T.	2025	=	2600
A.A.D.T.	2045	=	2800
D.H.V.		=	318
D.D.		=	60/40
T.		=	6.5%
DESIGN SPEED		=	55 MPH
ESALS		=	310.000

TOTAL SHEETS = 104

#### CONVENTIONAL SYMBOLS

	-		
PLAN		PROFILE	
CORPORATE LIMITS	<i>!/////</i> .	GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	_ ^ _ \
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	_ ROCK
LIMITED HIGHWAY EASEMENT	L	SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE		GRADE ELEVATION	95.36
SLOPE INTERCEPT	/	CULVERT (Profile View)	0 □
REFERENCE LINE	300,58	UTILITIES	
EXISTING CULVERT		ELECTRIC	— E —
		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
•	MA	SANITARY SEWER	SAN
COMBUSTIBLE FLUIDS	-caution-	STORM SEWER	<u> </u>
	1/1/	TELEPHONE	— т —
MARSH ARFA	1111	WATER	—— w ——
MUNICITY CITES	4	UTILITY PEDESTAL	Ħ
		POWER POLE	Ь
WOODED OR SHRUB AREA	ξ	TELEPHONE POLE	ø





**EROSION CONTROL** 

TRAFFIC CONTROL **DETOUR PLAN** 

**GENERAL NOTES** TYPICAL SECTIONS

#### **GENERAL NOTES**

- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS. HOTLINE AND/OR DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
- 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 CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.
- CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION
- THE QUANTITY OF THE ITEMS FOR EROSION PROTECTION INCLUDES AN UNDISTRIBUTED AMOUNT FOR PROTECTION, CONTROL AND ABATEMENT OF WATER POLLUTION RESULTING FROM SOIL EROSION. THE DISTRIBUTION AND LOCATION OF THESE MATERIALS ARE TO BE DETERMINED BY THE ENGINEER.
- DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND EROSION MATTED AS DIRECTED BY THE ENGINEER.
- (SALVAGED) TOPSOIL AND EROSION MAT HAS BEEN COMPUTED BY DIRECT MEASUREMENTS ON THE CROSS SECTIONS PLUS 5 FT BEYOND THE TOE OF SLOPE. SEEDING AND FERTILIZER HAS BEEN COMPUTED BY DIRECT MEASUREMENTS ON THE CROSS SECTIONS PLUS 10 FT.
- DO NOT REMOVE ANY TREES WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- FERTILIZER SHALL NOT BE USED WITHIN 20' OF NAVIGABLE WATERWAYS OR WETLANDS.
- APPLY TACK COAT AT A RATE OF 0.07 GAL/SY TO MILLED PAVEMENT SURFACES AND 0.05 GAL/SY BETWEEN LAYERS OF HMA PAVEMENT.
- A CONVERSION FACTOR OF 2.10 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE 3/4-INCH.
- A CONVERSION FACTOR OF 2.00 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE 1 1/4-INCH
- A CONVERSION FACTOR OF 112 LB/SY/IN. IS USED TO ESTIMATE QUANTITIES FOR HMA PAVEMENT.
- ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND **GRADATIONS:**

TOTAL LAYER PAVEMENT THICKNESS	<u>LAYERS</u>	GRADATION	
5" ASPHALTIC SURFACE	2" (UPPER LAYER) 3" (LOWER LAYER)	12.5 mm (UPPER LAYER) 19.0 mm (LOWER LAYER)	

#### UTILITIES

#### **ALLIANT ENERGY - ELECTRIC**

NICHOLAS DACHNIWSKYJ 935 WBR TOWNLINE RD BELOIT, WI 53511 P: 608-364-6566 C: 608-444-9362 EMAIL: NICHOLASDACHNIWSKYJ@ALLIANTENERGY.COM

## FRONTIER - COMMUNICATIONS

BIMAL KOHLI 122 VINE ST, SUITE 30 PASO ROBLES, CA 9344 P: 763-317-8414 EMAIL: BKOHLI@PEARCE-SERVICES.COM

#### WINDSTREAM KDL (WINDSTREAM) -COMMUNICATIONS

LORI KETTER 969 WAUBE LN GREEN BAY, WI 54304 P: 920-410-6902

EMAIL: LORI.KETTER@WINDSTREAM.COM

## **ALLIANT ENERGY - GAS**

NICHOLAS DACHNIWSKYJ 935 WBR TOWNLINE RD BELOIT, WI 53511 P: 608-364-6566 C: 608-444-9362

EMAIL: NICHOLASDACHNIWSKYJ@ALLIANTENERGY.COM

#### SPECTRUM MID-AMERICA, LLC. (SPECTRUM) -COMMUNICATIONS

PAUL ZUEHLKE 1348 PLAINFIELD AVE JANESVILLE, WI 53545 P: 715-491-7502

EMAIL: PAUL.ZUEHLKE@CHARTER.COM

#### STANDARD ABBREVIATIONS

AGG AGGREGATE MGAL 1000 GALLONS	
< ANGLE N NORTH	
AE,AEW APRON ENDWALL NB NORTHBOUND	
ASPH. ASPHALTIC NOR. NORMAL	
A.D.T. AVERAGE DAILY TRAFFIC PAV'T PAVEMENT A.A.D.T. ANNUAL AVERAGE DAILY TRAFFIC P.L.E. PERMANENT LIMITED EASE	
A.A.D.T. ANNUAL AVERAGE DAILY TRAFFIC P.L.E. PERMANENT LIMITED EASE	MENT
C/L CENTER LINE P.C. POINT OF CURVATURE	
Δ CENTRAL ANGLE OR DELTA P.I. POINT OF INTERSECTION	
CMCP CORRUGATED METAL CULVERT PIPE P.T. POINT OF TANGENCY	
CMP CORRUGATED METAL PIPE P.E. PRIVATE ENTRANCE	
CO. COUNTY R RADIUS OR RANGE	
CTH COUNTY TRUNK HIGHWAY R/L REFERENCE LINE	
CR. CREEK R.C.C.P. REINFORCED CONCRETE CU	JLVERT PIPE
CY CUBIC YARD REQ'D REQUIRED	
C&G CURB AND GUTTER RT RIGHT	
D DEGREE OF CURVE R/W RIGHT OF WAY	
D.H.V. DESIGN HOURLY VOLUME RD. ROAD	
D.D. DIRECTIONAL DISTRIBUTION SHLD. SHOULDER(S)	
EA EACH S SOUTH	
E EAST SB SOUTHBOUND	
EB EASTBOUND S.F. SQUARE FOOT (FEET)	
ELEC. ELECTRIC(AL), ELEC. CABLE SDD STANDARD DETAIL DRAWII	NG(S)
EL., ELEV. ELEVATION STH STATE TRUNK HIGHWAY	(-)
ESALS EQUIVALENT SINGLE AXLE LOADS STA. STATION	
EXC. EXCAVATION S.E. SUPERELEVATION	
EXIST EXISTING S.I. SLOPE INTERCEPT	
F.E. FIELD ENTRANCE T. PERCENT TRUCKS	
CWT HUNDRED WEIGHT TEL. TELEPHONE	
IH INTERSTATE HIGHWAY T.L.E. TEMPORARY LIMITED EASE	MENT
LT LEFT TYP TYPICAL	
L. LENGTH OF CURVE VAR VARIABLE	
L.F. LINEAR FOOT(FEET) W WEST	
LC. LONG CHORD WB WESTBOUND	
LS LUMP SUM	

#### **OTHER AGENCIES**

#### **WDNR LIAISON**

ERIC HEGGELUND 3911 FISH HATCHERY RD FITCHBURG, WI 53711 PHONE: (608) 228-7927

EMAIL: ERIC.HEGGELUND@WISCONSIN.GOV

#### DANE COUNTY HIGHWAY DEPARTMENT

DANE COUNTY **BRIAN RICE** 2302 FISH HATCHERY ROAD MADISON, WI 53713 PHONE: (608) 266-4037

EMAIL: RICE.BRIAN@COUNTYOFDANE.COM

#### CONSULTANT DESIGN

EMCS, INC. CORY INMAN 1600 ASPEN COMMONS, SUITE 230 MIDDLETON, WI 53562 PHONF: (608)665-9819 EMAIL: CINMAN@EMCSINC.COM



#### **RUNOFF COEFFICIENT TABLE**

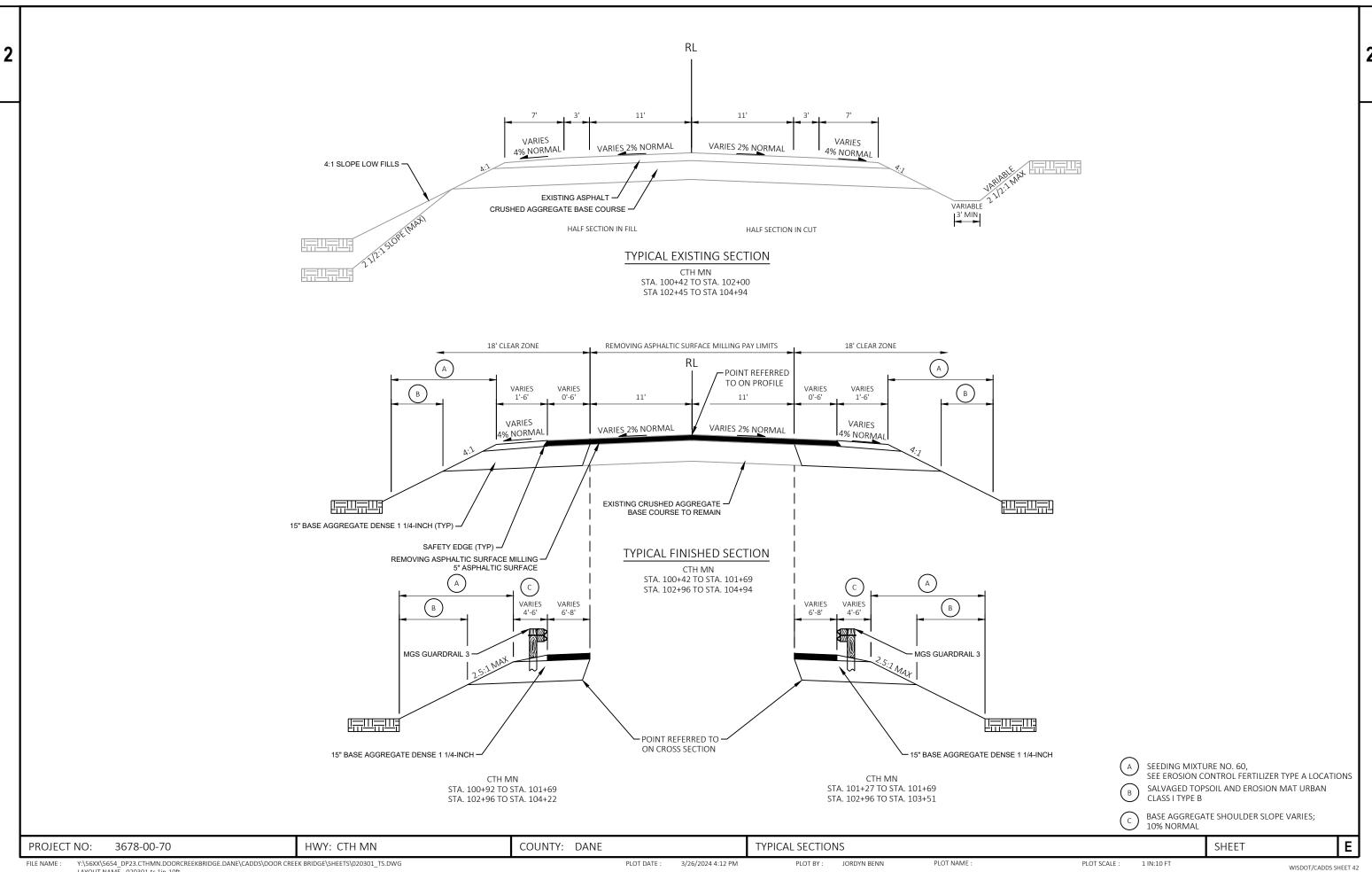
		HYDROLOGIC SOIL GROUP											
		А			В			С			D		
	SLOPE	RANGE	(PERCENT)	SLOPE	SLOPE RANGE (PERCENT) SI			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	0-2 2-6 6 & OVER		0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS:	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38	
NOW CROPS.	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56	
MEDIAN STRIPTURF:	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30	
MEDIAN STRIPTORF:	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40	
CIDE CLODETLIBE.			.25			.27			.28			.30	
SIDE SLOPETURF:			.32			.34			.36			.38	
PAVEMENT:													
ASPHALT:						.70	95						
CONCRETE:						.80	95						
BRICK:	.7080												
DRIVES, WALKS:	.7585												
ROOFS:						.75	95						
GRAVEL ROADS, SHOULDERS: .4060													

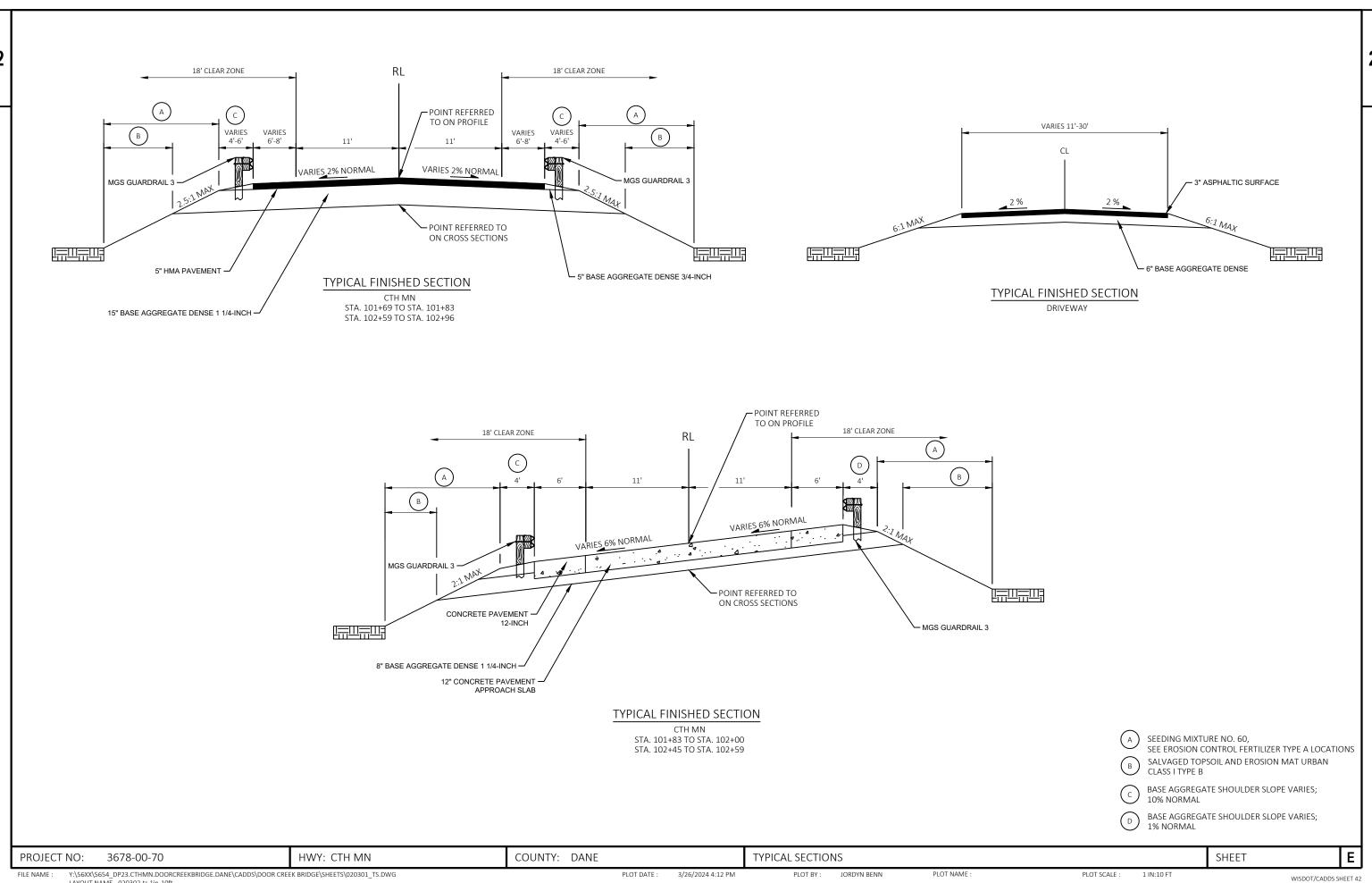
TOTAL PROJECT AREA = \_\_\_\_624 \_\_ ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.424 ACRES

PROJECT NO: 3678-00-70 HWY: CTH MN COUNTY: DANE **GENERAL NOTES** SHEET Ε

FILE NAME :





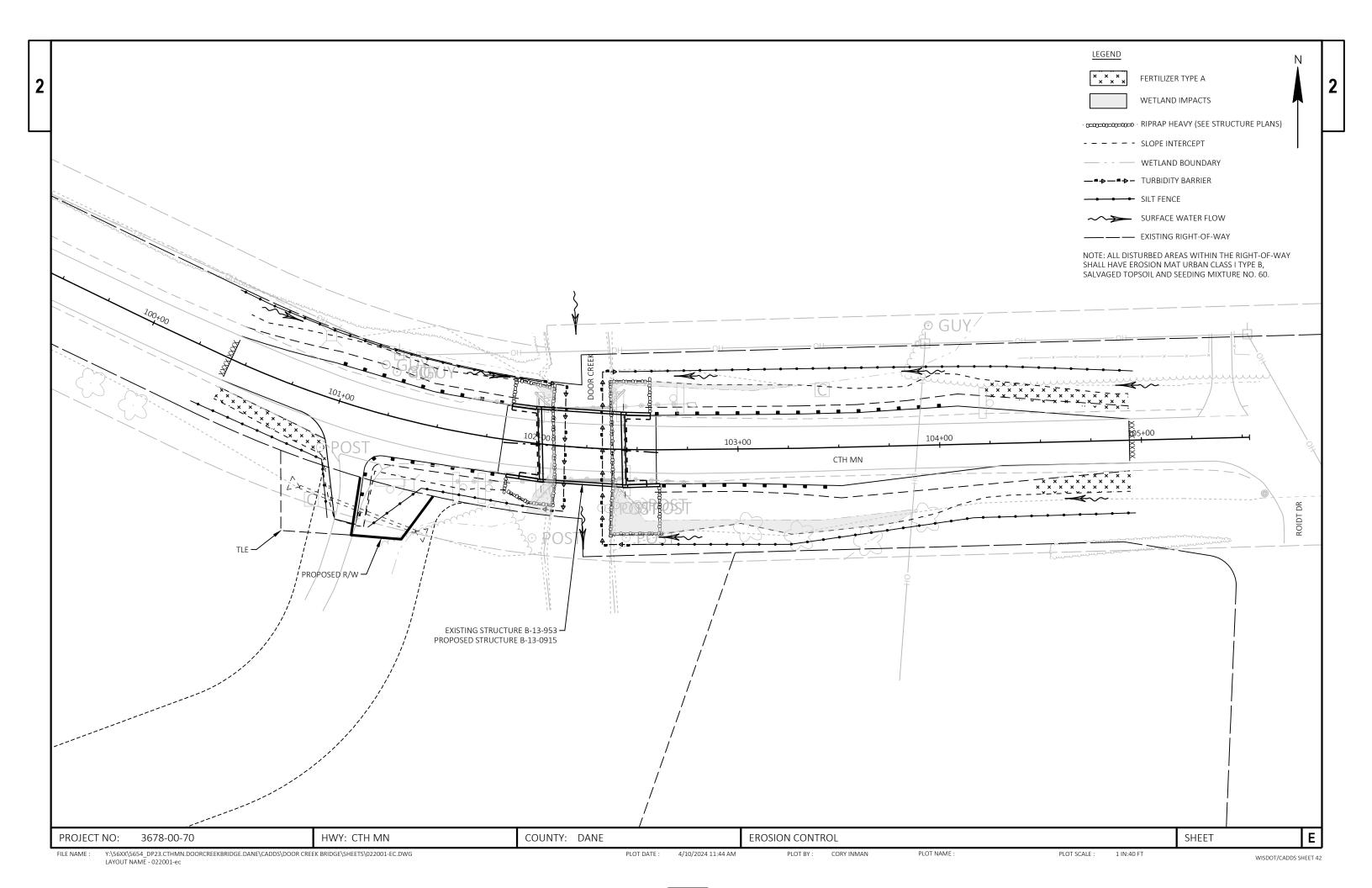
2

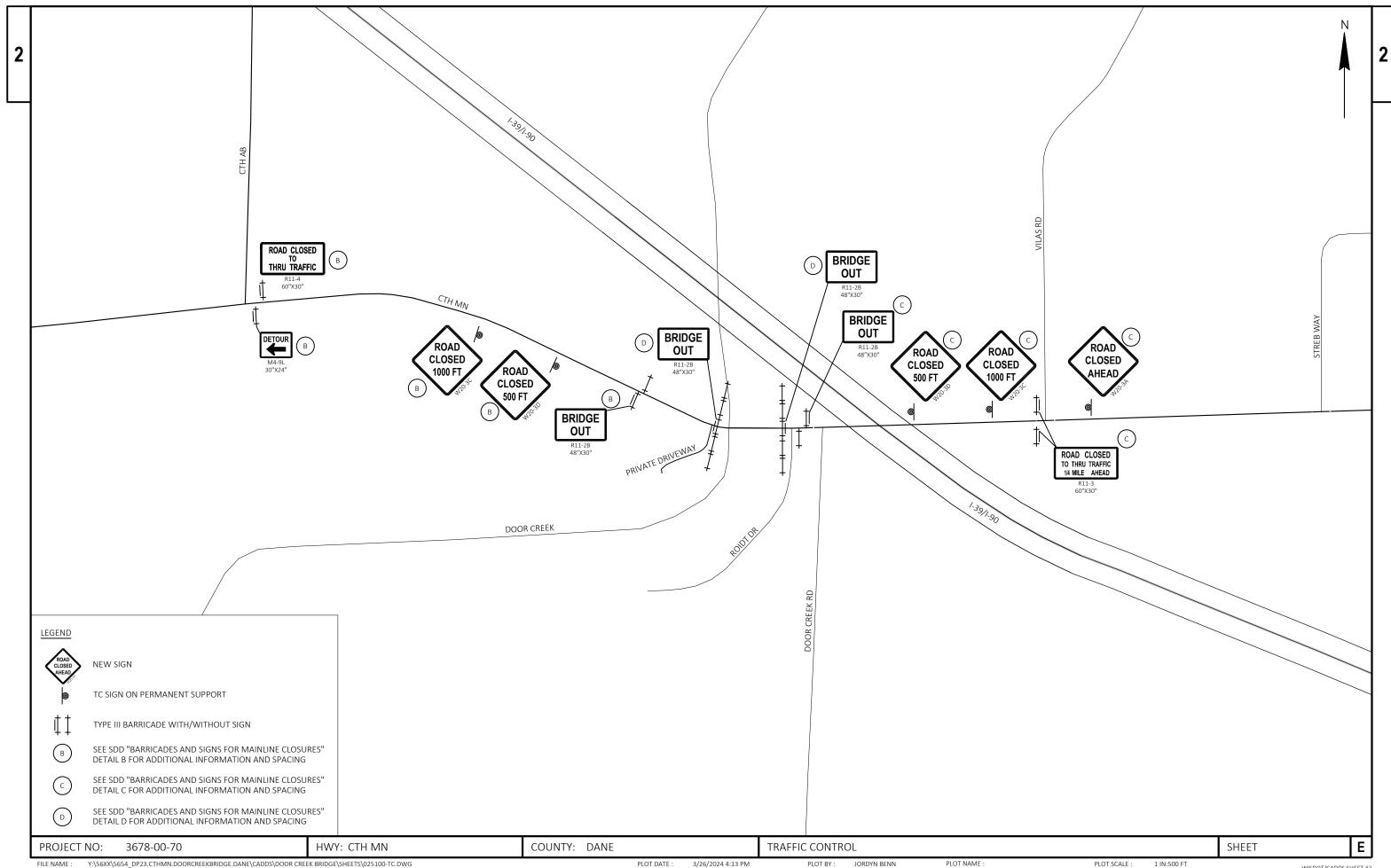
2

SUPERELEVATION REPORT FOR CTH MN									
TRANSITION EVENT PO	DINTS	RATE (FT/FT)							
		LEFT OF CRO	WNLINE	RIGHT C	F CROWNLINE				
LOCATION	STATION	LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER				
CURVE 1									
Match Existing	100+42.50	-0.141	-0.084	0.056	-0.008				
Begin Full Super Rt Lane	100+52.40	-0.133	-0.08	0.06	-0.001				
Begin Full Super Lt Shoulder	100+92.30	-0.1	-0.063	0.06	Driveway				
Begin Full Super Lt Lane	101+04.40	-0.1	-0.06	0.06	Driveway				
Begin MGS Rt	101+28.90	-0.1	-0.06	0.06	-0.01				
Begin Structure	102+05.21	-0.1	-0.06	0.06	-0.01				
End Structure	102+43.48	-0.06	-0.06	0.06	-0.01				
<u>EndFullSuper</u>	102+45.00	-0.06	-0.06	0.06	-0.01				
<u>LowShoulderMatch</u>	102+96.00	-0.04	-0.04	0.04	-0.01				
ReverseCrown	103+47.00	-0.04	-0.02	0.02	-0.01				
LevelCrown	103+98.00	-0.04	-0.02	0	-0.01				
<u>BeginNormalCrown</u>	104+49.00	-0.04	-0.02	-0.02	-0.04				
<u>Begin Normal Shoulder</u>	104+49.00	-0.04	-0.02	-0.02	-0.04				

PROJECT NO: 3678-00-70 HWY: CTH MN COUNTY: DANE TYPICAL SECTIONS SHEET **E** 

PLOT NAME :





#### DETOUR NOTES

THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE TRAFFIC CONTROL PLAN, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

ALL EXISTING SIGNS THAT NEED TO BE COVERED SHALL BE COVERED WITH A BLANK ORANGE PANEL. PAID FOR AS TRAFFIC CONTROL COVERING SIGNS TYPE II UNLESS OTHERWISE NOTED.

ALL "W" AND "WO" SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.

REFER TO SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" AND SDD "DETOUR SIGNING FOR MAINLINE CLOSURES" FOR SIGN SPACING NOT SHOWN IN DETAILS

SEVEN CALENDAR DAYS IN ADVANCE OF CLOSING CTH MN, PLACE PCMS AT THE EAST AND WEST END OF THE DETOUR ROUTE ON CTH MN AS DETERMINED BY THE ENGINEER. MESSAGE TO READ AS LISTED BELOW OR AS APPROVED BY THE ENGINEER.

TRAFFIC CONTROL SIGNS PCMS MESSAGES							
PCMS SIGN LOCATION	PHASE 1						
CTH MN AT CTH AB	ROAD TO CLOSE (DATE)						
CTH MN AT CTH N	ROAD TO CLOSE (DATE)						







PROJECT NO:

PROJECT LOCATION

3678-00-70 HWY: CTH MN

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PLOT DATE : 3/26/2024 4:14 PM

**IcFarland** 

PLOT BY:

PLOT NAME

DETAIL 1

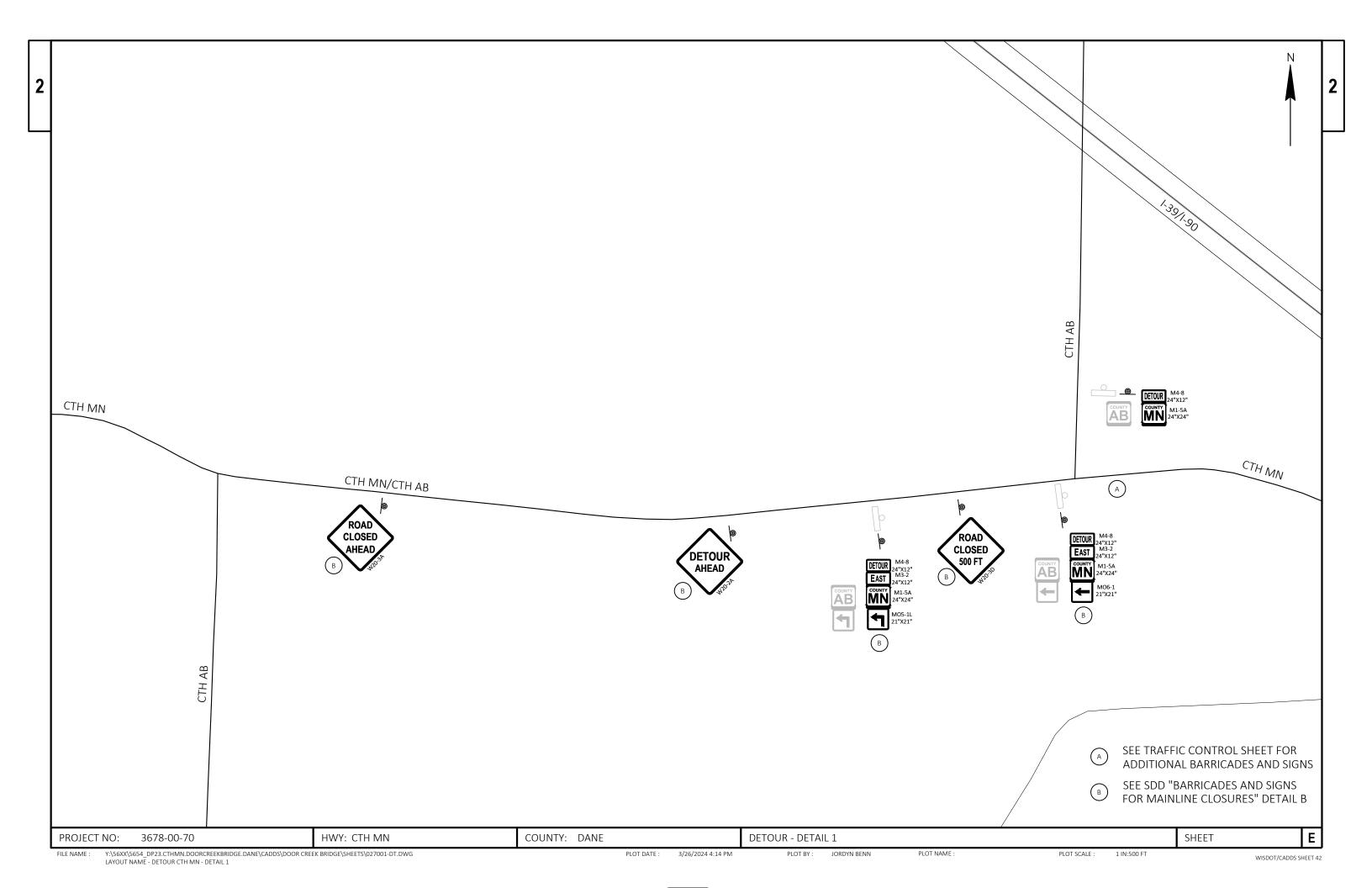
PLOT SCALE:

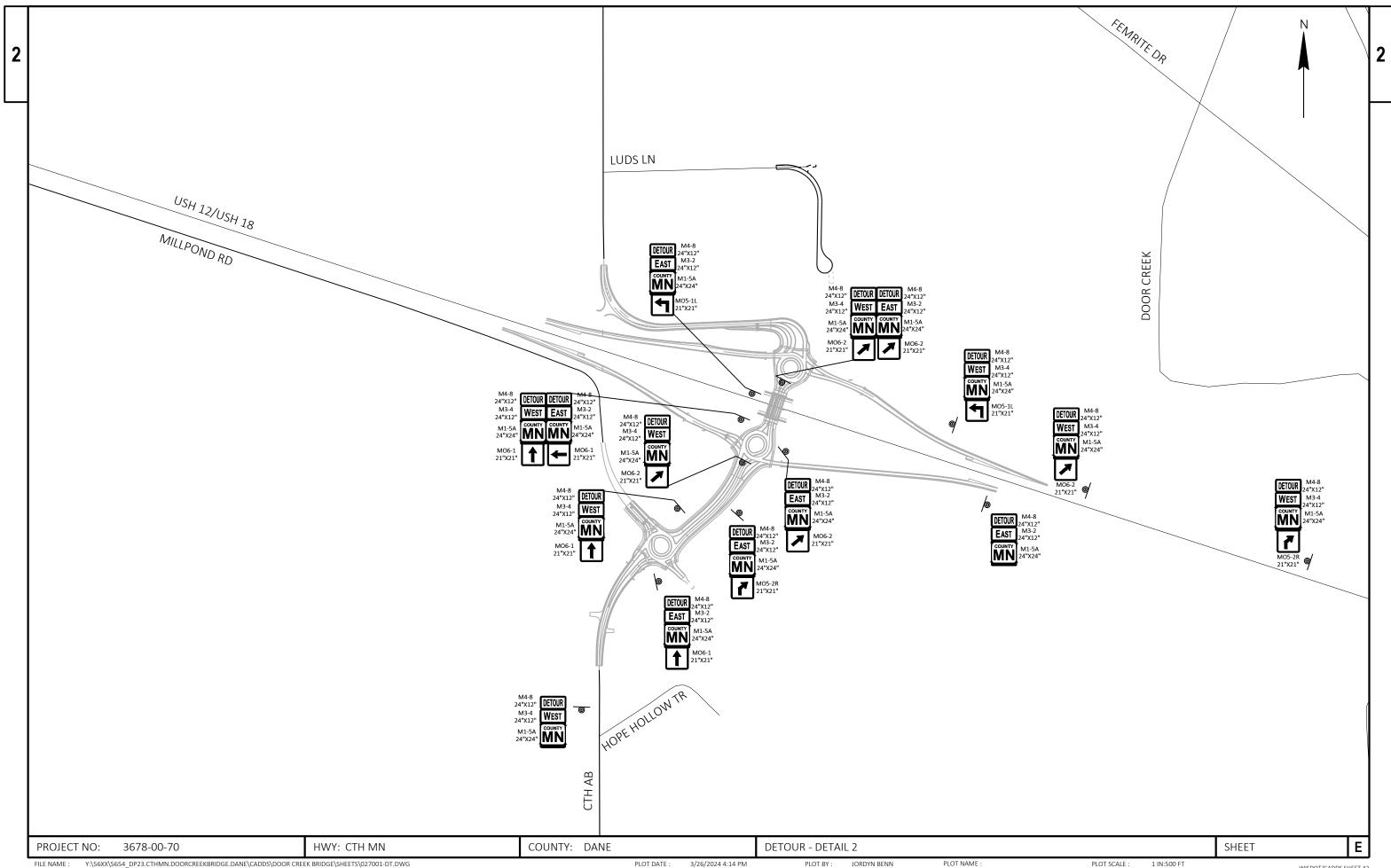
WISDOT/CADDS SHEET 42

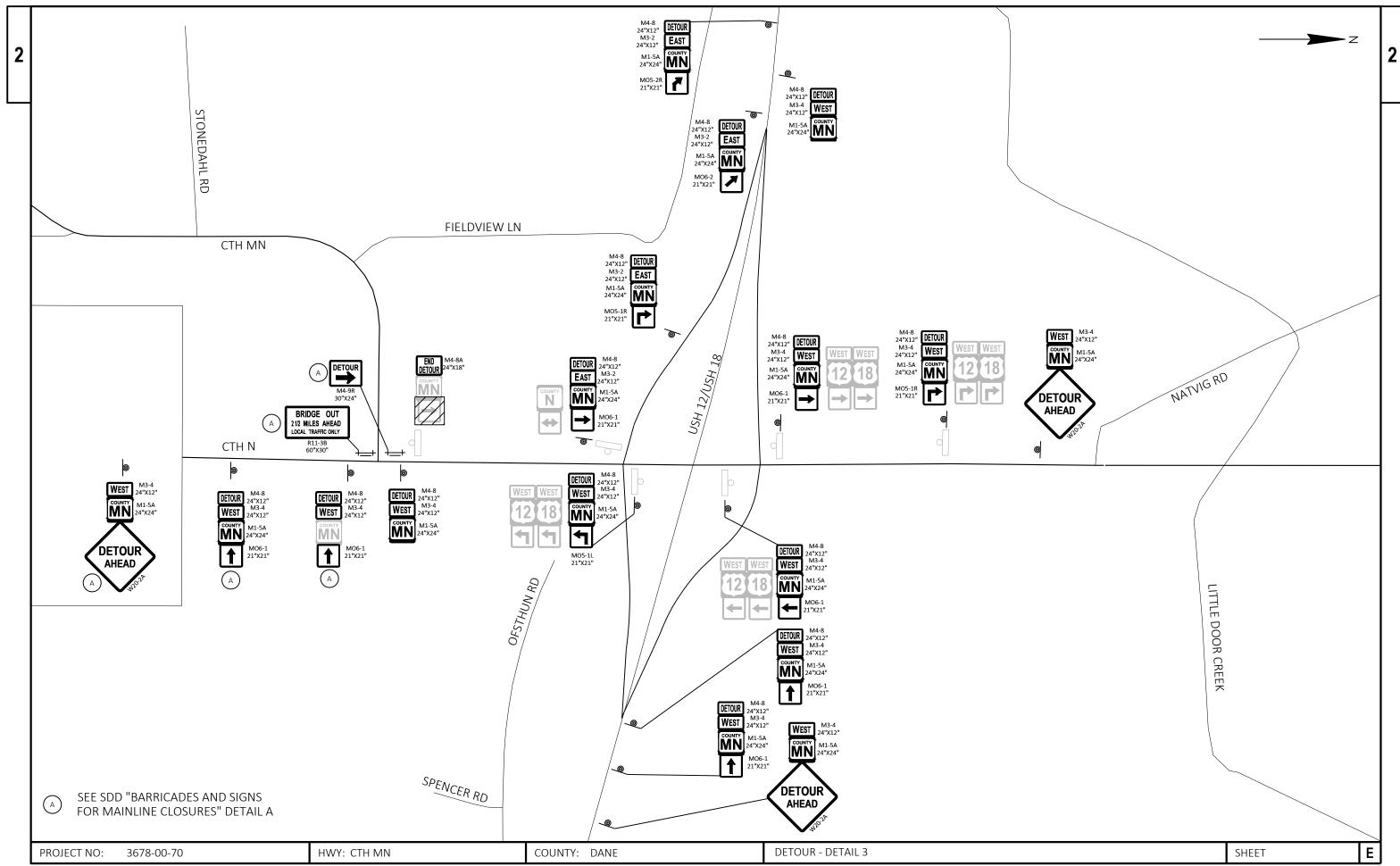
COUNTY: DANE

DETAIL 2

**SHEET** 







2222 22 72	
3678-00-70	1

					3678-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	203.0250	Removing Structure Over Waterway Remove Debris (structure) 01. B-13-953	EACH	1.000	1.000	
0004	204.0120	Removing Asphaltic Surface Milling	SY	821.000	821.000	
0006	204.0165	Removing Guardrail	LF	235.000	235.000	
8000	205.0100	Excavation Common	CY	512.000	512.000	
0010	206.1001	Excavation for Structures Bridges (structure) 01. B-13-953	EACH	1.000	1.000	
0012	210.1500	Backfill Structure Type A	TON	490.000	490.000	
0014	213.0100	Finishing Roadway (project) 01. 3678-00-70	EACH	1.000	1.000	
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	61.000	61.000	
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,030.000	1,030.000	
0020	415.0120	Concrete Pavement 12-Inch	SY	39.000	39.000	
0022	415.0410	Concrete Pavement Approach Slab	SY	89.000	89.000	
0024	455.0605	Tack Coat	GAL	94.000	94.000	
0026	465.0105	Asphaltic Surface	TON	404.000	404.000	
0028	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	11.000	11.000	
0030	502.0100	Concrete Masonry Bridges	CY	212.000	212.000	
0032	502.3200	Protective Surface Treatment	SY	260.000	260.000	
0034	505.0400	Bar Steel Reinforcement HS Structures	LB	5,220.000	5,220.000	
0036	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	26,930.000	26,930.000	
0038	513.4061	Railing Tubular Type M	LF	146.000	146.000	
0040	516.0500	Rubberized Membrane Waterproofing	SY	22.000	22.000	
0042	550.0500	Pile Points	EACH	22.000	22.000	
0044	550.2104	Piling CIP Concrete 10 3/4 X 0.25-Inch	LF	1,320.000	1,320.000	
0046	606.0300	Riprap Heavy	CY	135.000	135.000	
0048	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	164.000	164.000	
0050	614.2300	MGS Guardrail 3	LF	87.500	87.500	
0052	614.2350	MGS Guardrail Short Radius	LF	38.000	38.000	
0054	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600	
0056	614.2610	MGS Guardrail Terminal EAT	EACH	3.000	3.000	
0058	614.2630	MGS Guardrail Short Radius Terminal	EACH	1.000	1.000	
0060	618.0100	Maintenance and Repair of Haul Roads (project) 01. 3678-00-70	EACH	1.000	1.000	
0062	619.1000	Mobilization	EACH	1.000	1.000	
0064	624.0100	Water	MGAL	25.000	25.000	
0066	625.0500	Salvaged Topsoil	SY	402.000	402.000	
0068	628.1504	Silt Fence	LF	832.000	832.000	
0070	628.1520	Silt Fence Maintenance	LF	832.000	832.000	
0072	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000	
0074	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000	
0076	628.2008	Erosion Mat Urban Class I Type B	SY	443.000	443.000	
0078	628.6005	Turbidity Barriers	SY	207.000	207.000	
0800	629.0205	Fertilizer Type A	CWT	2.200	2.200	
0082	630.0160	Seeding Mixture No. 60	LB	12.100	12.100	
0084	630.0200	Seeding Temporary	LB	6.100	6.100	
0086	630.0500	Seed Water	MGAL	19.800	19.800	
0088	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	7.000	7.000	
0090	638.2102	Moving Signs Type II	EACH	7.000	7.000	
0092	638.2602	Removing Signs Type II	EACH	2.000	2.000	
0094	638.3000	Removing Small Sign Supports	EACH	9.000	9.000	
0096	642.5001	Field Office Type B	EACH	1.000	1.000	
0098	643.0420	Traffic Control Barricades Type III	DAY	1,350.000	1,350.000	

222	$\Delta \Delta \Delta$	$\sim$
3678-		

Line	Item	Item Description	Unit	Total	Qty
0100	643.0705	Traffic Control Warning Lights Type A	DAY	2,700.000	2,700.000
0102	643.0900	Traffic Control Signs	DAY	11,025.000	11,025.000
0104	643.0920	Traffic Control Covering Signs Type II	EACH	1.000	1.000
0106	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0108	643.5000	Traffic Control	EACH	1.000	1.000
0110	645.0111	Geotextile Type DF Schedule A	SY	120.000	120.000
0112	645.0120	Geotextile Type HR	SY	260.000	260.000
0114	646.1020	Marking Line Epoxy 4-Inch	LF	1,780.000	1,780.000
0116	650.4500	Construction Staking Subgrade	LF	401.000	401.000
0118	650.5000	Construction Staking Base	LF	401.000	401.000
0120	650.6501	Construction Staking Structure Layout (structure) 01. B-13-0915	EACH	1.000	1.000
0122	650.7000	Construction Staking Concrete Pavement	LF	30.000	30.000
0124	650.9911	Construction Staking Supplemental Control (project) 01. 3678-00-70	EACH	1.000	1.000
0126	650.9920	Construction Staking Slope Stakes	LF	401.000	401.000
0128	690.0150	Sawing Asphalt	LF	46.000	46.000
0130	715.0502	Incentive Strength Concrete Structures	DOL	1,272.000	1,272.000
0132	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000
0134	999.2005.S	Maintaining Bird Deterrent System (station) 01. 102+25	EACH	1.000	1.000
0136	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0138	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0140	SPV.0060	Special 01. Utility Line Opening (ULO)	EACH	2.000	2.000
0142	SPV.0090	Special 01. Flashing Stainless Steel	LF	45.000	45.000
0144	SPV.0195	Special 01. Select Crushed Material for Travel Corridor	TON	64.000	64.000

REMOVAL ITEMS

					204.0120 REMOVING ASPHALTIC SURFACE MILLING	204.0165  REMOVING GUARDRAIL
CATEGORY	STATION	TO	STATION	LOCATION	SY	LF
0010	101+56	-	102+79	LT		108
0010	101+56	-	102+79	RT		127
0010	100+42	-	101+69	RT/LT	338	
0010	102+96	-	104+94	RT/LT	483	
				TOTAL 0010	821	235

### CONCRETE ITEMS

					415.0120	415.0410
						CONCRETE
					CONCRETE	PAVEMENT
					PAVEMENT	APPROACH
					12-INCH	SLAB
CATEGORY	STATION	TO	STATION	LOCATION	SY	SY
0030	100+42	-	102+02	WEST	21	48
0030	102+44	-	104+87	EAST	18	41
				TOTAL 0000	20	
				TOTAL 0030	39	89

#### BASE AGGREGATE ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	REMARKS
CATEGORI	STATION	10	STATION	LOCATION	TON	TON	NEIVIANNS
0010	100+42	-	102+02	WEST	22	383	
0010	101+00	-	101+28	RT		22	DRIVEWAY
0010	102+44	-	104+87	EAST	39	625	test
				TOTAL 0010	61	1,030	

#### ASPHALTIC ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	455.0605  TACK COAT  GAL	465.0105  ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	REMARKS
0010	100+42	-	102+02	WEST	36	144		
0010	101+00	-	101+28	RT			11	DRIVEWAY
0010	102+44	-	104+87	EAST	58	229		
0010	100+42	-	101+69	WEST		11		WEDGING
0010	102+96	-	104+94	EAST		20		WEDGING
				TOTAL 0010	94	404	11	

		205.0100 COMMON EXCAVATION (1)	AVAILABLE		EXPANDED FILL (13)		
		CUT	MATERIAL	UNEXPANDED	FACTOR	MASS ORDINATE +/-	
DIVISION	FROM/TO STATION	(2)	(5)	FILL	1.25	(14)	WASTE
DIVISION 1							
WESTABUTMENT	100+42.5/101+98.755	239	239	21	26	213	213
DIVISION 1 SUBTOTAL		239	239	21	26	213	213
DIVISION 2							
EASTABUMENT	102+45.649/104+94	273	273	164	205	68	68
DIVISION 2 SUBTOTAL		273	273	164	205	68	68
GRAND TOTAL		512	512	185	231	281	281
	TOTAL COMMON EXCAVATION	512					

NOTES:
ALL QUANTITIES SHOWN IN CY.
(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL
(13) EXPANDED FILL FACTOR = UNEXPANDED FILL \* FILL FACTOR
(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
(15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

Ε PROJECT NO: 3678-00-70 HWY: CTH MN COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET 7/9/2024 10:03 AM FILE NAME :

Y:\56XX\5654\_DP23.CTHMN.DOORCREEKBRIDGE.DANE\CADDS\DOOR CREEK BRIDGE\SHEETS\030201-MQ.DWG LAYOUT NAME - 01

PLOT DATE :

PLOT BY: JORDYN BENN

PLOT NAME :

PLOT SCALE :

WISDOT/CADDS SHEET 42

#### **GUARDRAIL ITEMS**

#### MAINTENANCE AND REPAIR OF HAUL ROADS

					614.2300	614.2350	614.2500	614.2610	614.2630	SPV.0060.01
									MGS	SPECIAL (01.
						MGS	MGS THRIE	MGS	GUARDRAIL	UTILITY LÌNE
					MGS	GUARDRAIL	BEAM	GUARDRAIL	SHORT RADIUS	OPENING
					GUARDRAIL 3	SHORT RADIUS	TRANSITION	TERMINAL EAT	TERMINAL	(ULO))
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	LF	EACH	EACH	EACH
0010	100+42	=	102+02	NORTHWEST			39.4	1		
0010	100+42	=	102+02	SOUTHWEST	25	38	39.4		1	2
0010	102+44	=	104+87	NORTHEAST	62.5		39.4	1		
0010	102+44	-	104+87	SOUTHEAST			39.4	1		
				TOTAL 0010	87.5	38	157.6	3	1	2

MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) (01. 3678-00-70) EACH CATEGORY LOCATION 0030 TOTAL 0030

## MOVING & REMOVING SIGNS

				634.0616 POSTS	638.2102	638.2602	638.3000	
				WOOD			REMOVING	
				4X6-INCH	MOVING	REMOVING	SMALL SIGN	
				X 16-FT	SIGNS TYPE II	SIGNS TYPE II	SUPPORTS	
CATEGORY	STATION	OFFSET	SIGN DESCRIPTION	EACH	EACH	EACH	EACH	COMMENTS
0010		RT	NARROW BRIDGE			1	1	500' WEST OF PROJECT LIMIT
	101+67	RT	ONE-DIRECTION LARGE ARROW	1	1		1	
	101+80	RT	LAKE/RIVER (DOOR CREEK)	1	1		1	
	102+03	LT/RT	BRIDGE HASH MARKS	2	2		2	
	102+42	LT/RT	BRIDGE HASH MARKS	2	2		2	
	104+25	LT	LAKE/RIVER (DOOR CREEK)	1	1		1	
		LT	NARROW BRIDGE			1	1	300' EAST OF PROJECT LIMIT
			TOTAL 0010	7	7	2	9	

## PAVEMENT MARKINGS

				646.1020 MARKING LINE EPOXY 4-INCH	
CATEGORY	STATION	TO	STATION	LF	REMARKS
0010 0010	100+42 100+42	-	104+87 104+87	890 890	WB/EB YELLOW CENTERLINE SOLID WB/EB WHITE EDGELINE
0010	100+42		TOTAL 0010	1.780	WB/EB WITHE EDGLEINE

### STAKING

		650.4500	650.5000	650.7000	650.9911.01	650.9920
					CONSTRUCTION	
					STAKING	
				CONSTRUCTION	i Supplemental	
		CONSTRUCTION		STAKING	CONTROL	CONSTRUCTION
		STAKING	CONSTRUCTION	CONCRETE	(PROJECT) (01.	STAKING
		SUBGRADE	STAKING BASE	PAVEMENT	3678-00-70)	SLOPE STAKES
CATEGORY	LOCATION	LF	LF	LF	EACH	LF
0010	CTH MN	401	401	30	1	401
	TOTAL 0010	401	401	30	1	401

## SAWING ASPHALT

CATEGORY	STATION	то	STATION	LOCATION	690.0150 SAWING ASPHALT LF
CATEGORI	317(11011	10	317(11011	200/11014	
0010	100+42	=	102+02	WEST	24
0010	102+44	=	104+87	EAST	22
<u> </u>				TOTAL 0010	46

Ε 3678-00-70 COUNTY: DANE SHEET PROJECT NO: HWY: CTH MN MISCELLANEOUS QUANTITIES FILE NAME :

#### TRAFFIC CONTROL ITEMS

			643.	0420		.0705	643	.0900		643.0920		643.	1050	643.5000	)
		DURATION		CONTROL DES TYPE III	WARNIN	CONTROL IG LIGHTS PE A		CONTROL GNS	TRAFFIC C	ONTROL (		TRAFFIC (	CONTROL PCMS	TRAFFIC CONTROL	
CATEGORY	LOCATION	DAY	NO.	DAY	NO.	DAY	NO.	DAY	CYCLES	NO.	EACH	NO.	DAY	EACH	COMMENTS
0010															
	CTH MN AND CTH AB	75					13	975							DETOUR CTH MN - DETAIL 1
	CTH AB AND USH 12/18	75					58	4,350							DETOUR CTH MN - DETAIL 2
	USH 12/18 AND CTH N	75	2	150	4	300	65	4,875	1	1	1				DETOUR CTH MN - DETAIL 3
_	CTH MN	75	16	1,200	32	2,400	11	825							ROAD CLOSURE SIGNS
	CTH MN	7										2	14		ADVANCE WARNING PCMS
	PROJECT 3678-00-70													1	
-	TOTAL 0010		18	1,350	36	2,700	147	11,025			1	2	14	1	

CATEGORY	LOCATION	624.0100 WATER MGAL
0010	CTH MN	25
	TOTAL 0010	25

WATER

#### **EROSION CONTROL ITEMS**

					628.1504	628.1520	628.2008	628.6005	
					SILT FENCE	SILT FENCE MAINTENANCE		TURBIDITY BARRIERS	
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	SY	SY	REMARKS
0010 0010 0010	100+42 102+44		102+02 104+87 UNDISTRIBUTED	WEST EAST	339 493 	339 493 	56 346 41	92 115 	SEE NOTE 1 SEE NOTE 2
				TOTAL 0010	832	832	443	207	

## EROSION CONTROL MOBILIZATION

		628.1905	628.1910
			MOBILIZATIONS
		MOBILIZATIONS	EMERGENCY
		EROSION	EROSION
		CONTROL	CONTROL
CATEGORY	LOCATION	EACH	EACH
0010	PROJECT	4	4
	TOTAL 0010	4	4

NOTE 1: TURBIDITY BARRIER CALCULATED BASED ON A HEIGHT OF 9 FT (Q2-STREAMBED+2 FT FLAP+2 FT ABOVE Q2) AND LENGTH OF 92 FT NOTE 2: TURBIDITY BARRIER CALCULATED BASED ON A HEIGHT OF 8.5 FT (Q2-STREAMBED+2 FT FLAP+2 FT ABOVE Q2) AND LENGTH OF 121 FT

## FIELD OFFICE

		642.5001
		FIELD OFFICE TYPE B
CATEGORY	LOCATION	EACH
0010	PROJECT	1
	TOTAL 0010	1

#### **RESTORATION ITEMS**

					625.0500	629.0205	630.0160 SEEDING	630.0200	630.0500
CATEGORY	STATION	TO	STATION	LOCATION	SALVAGED TOPSOIL SY	FERTILIZER TYPE A CWT	MIXTURE NO. 60	SEEDING TEMPORARY LB	SEED WATER MGAL
•									
0010	100+42		102+02	WEST	56	1.0	3.0	1.5	5.0
0010	102+44		104+87	EAST	346	1.0	8	4.0	13
0010			UNDISTRIBUTED			0.2	1.1	0.6	1.8
				TOTAL 0010	402	2.2	12.1	6.1	19.8

COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET Ε PROJECT NO: 3678-00-70 HWY: CTH MN

S12° 34' 38"W

FFF/TLF

814

LIMITED LIABILITY COMPANY

TRUST DATED MARCH 3, 1997

EUGENE J. SAWYER AND WANDA LOUISE

SAWYER, TRUSTEE(S) OR SUCCESSOR

TRUSTEE(S), OF THE SAWYER LIVING

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PLOT BY

OWNER(S

WINDSTREAM KDL, LLC (COMMUNICATION)

WISCONSIN POWER AND LIGHT COMPANY, A

WISCONSIN CORPORATION (ELECTRIC)

CONSIN POWER AND LIGHT COMPANY

WISCONSIN CORPORATION (GAS)

REQUIRED

RELEASE OF RIGHT

RELEASE OF RIGHTS

RELEASE OF RIGHTS

BOYER

S-2675

HEWITT

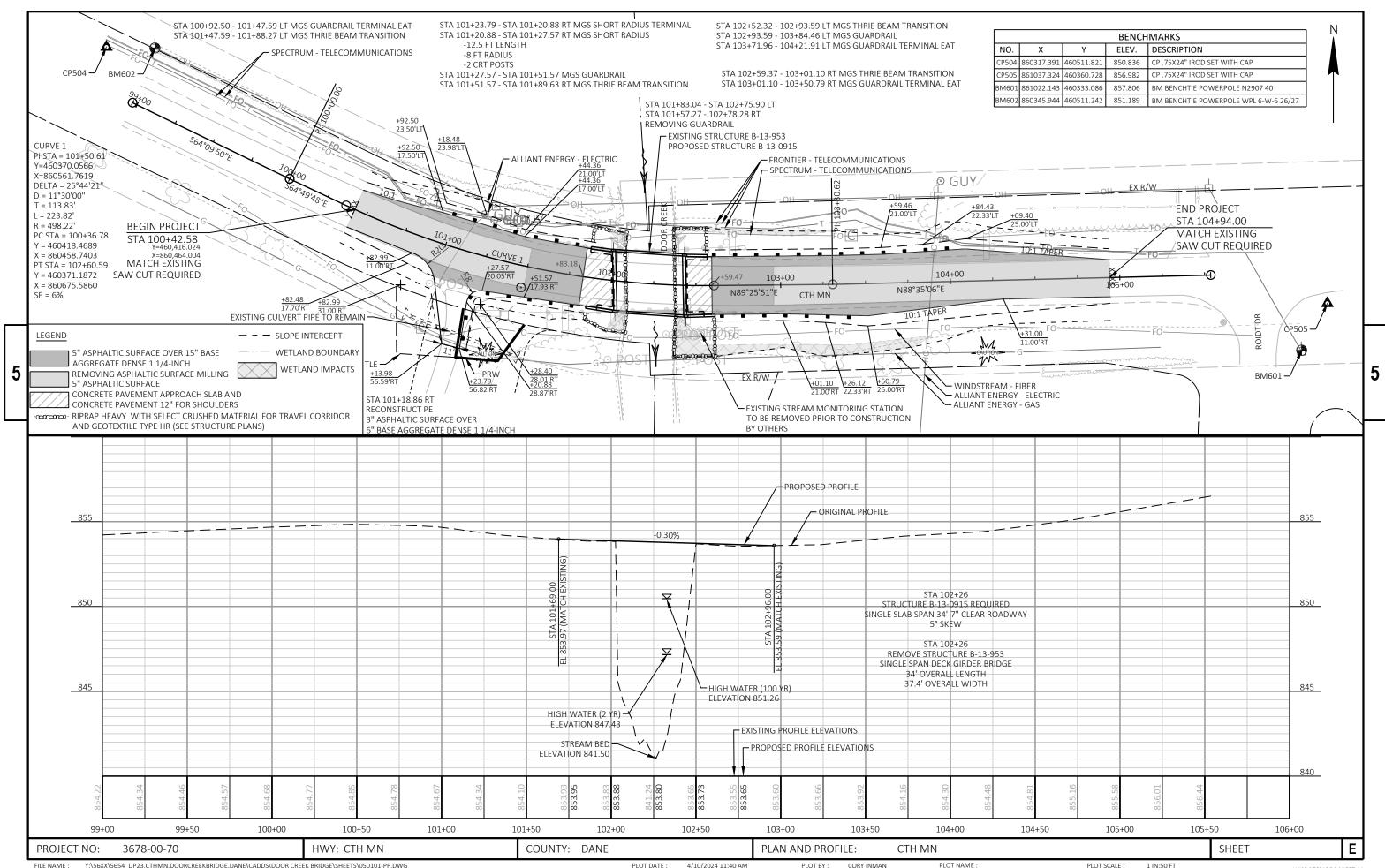
DATE:2/22/2024

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR

Himel Wungly

THE COUNTY OF DANK

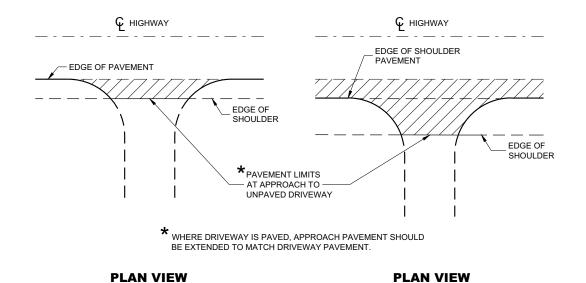
PRINT NAME: Pamela Dunphy



## <u>ہ</u>

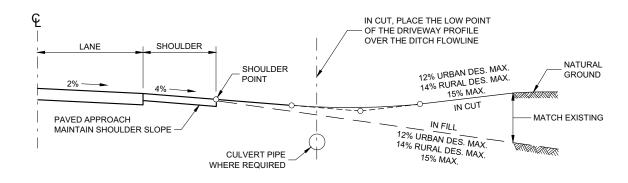
## Standard Detail Drawing List

08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
13A03-07	CONCRETE PAVEMENT SHOULDERS
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C19-03	HMA LONGITUDINAL JOINTS
14в29-01	SAFETY EDGE
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
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)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B53-02A	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS
14B53-02B	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS
14B53-02C	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS
14B53-02D	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS
14B53-02E	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS
14B53-02F	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS
14B53-02G	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS
14B53-02H	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS
14B53-02I	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS

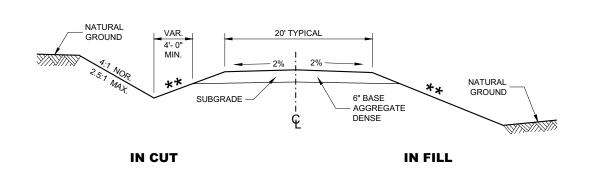


**RURAL DRIVEWAY INTERSECTION DETAIL** (NO CURB AND GUTTER OR SIDEWALK)

(PAVED SHOULDER ON HIGHWAY)



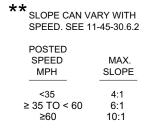
#### **TYPICAL DRIVEWAY PROFILES**

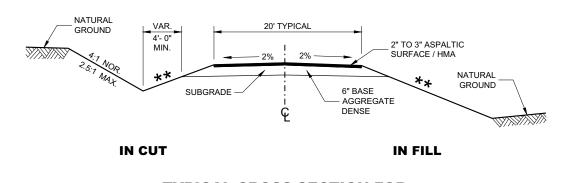


**TYPICAL CROSS SECTION FOR** 

PRIVATE DRIVE OR FIELD ENTRANCE **AGGREGATE SURFACE** 

(UNPAVED SHOULDER ON HIGHWAY)





### **TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE**

## **DRIVEWAYS WITHOUT CURB AND GUTTER**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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08D21

SD

SDD 08D21

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December 2017 DATE

## TYPICAL APPLICATION OF SILT FENCE

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## PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



#### 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 11/8" X 11/8" 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.



TRENCH DETAIL



SILT FENCE TIE BACK

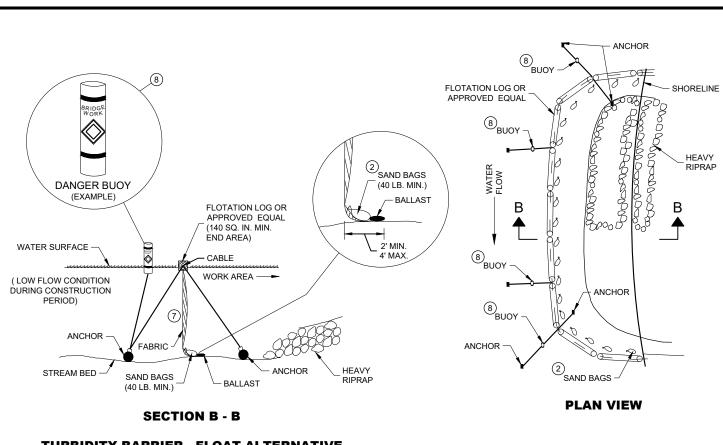
(WHEN REQUIRED BY THE ENGINEER)



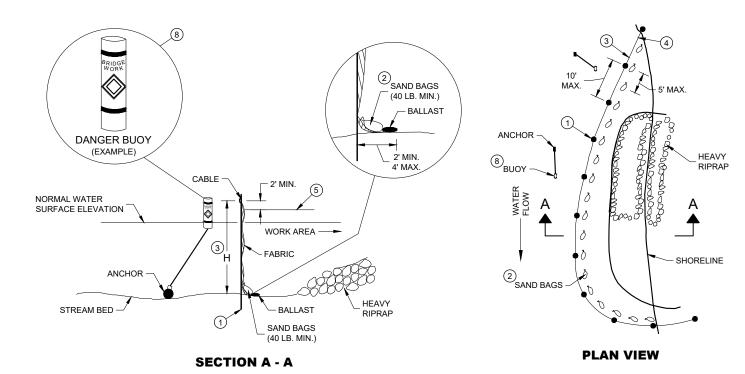
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D.D. 8 E 9-6



#### **TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6**



**TURBIDITY BARRIER - STANDARD POST INSTALLATION** 

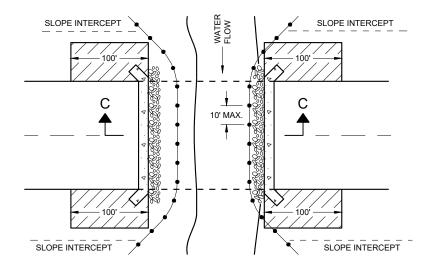
#### **TURBIDITY BARRIER PLACEMENT DETAILS**

#### **GENERAL NOTES**

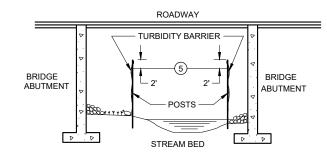
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH
- (2) SAND BAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT "H" EXCEEDS 8 FEET, POST SPACING MAY NEED TO BE DECREASED.
- (4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



**PLAN VIEW** 



**SECTION C - C** 

## **TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES**

## **TURBIDITY BARRIER**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION  $\infty$ 

APPROVED /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT
ENGINEER 6/4/02 DATE





### TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

#### **GENERAL NOTES**

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 WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

## NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/IO /S/ Scot Becker

DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

3-10

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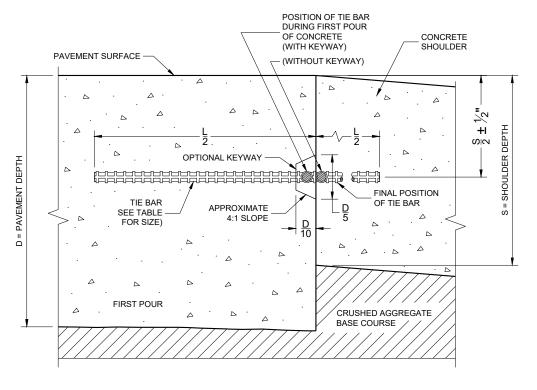
## **GENERAL NOTES**

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

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE

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



**SECTION A - A LONGITUDINAL CONSTRUCTION JOINT** 

## 1' - 0" DOWEL BARS 12" C -C DOWEL BARS 12" C -C (SEE DOWEL BAR TABLE) SHOULDER WIDTH TIE BAR (SEE TIE BAR TABLE TIE BAR SPACING FOR SIZE) (SEE TABLE) LONGITUDINAL JOINT → 15" MIN. →

- JOINT SPACING (SEE TABLE) -

## **PLAN VIEW CONCRETE PAVEMENT SHOULDER**

#### **TIE BAR TABLE**

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
<10 ½"	NO. 4	30"	36"
>10 ½"	NO. 5	36"	36"
> 10 /2	NO. 4*	30"	<sub>24"</sub> * *

\* SUBSTITUTE BENT BATS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES.

CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

#### **PAVEMENT DEPTH, DOWEL BAR SIZE** AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER ***	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12"
7", 7 ½"	1"	14"
8" & ABOVE	1 1/4"	15"

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

### **CONCRETE PAVEMENT SHOULDERS**

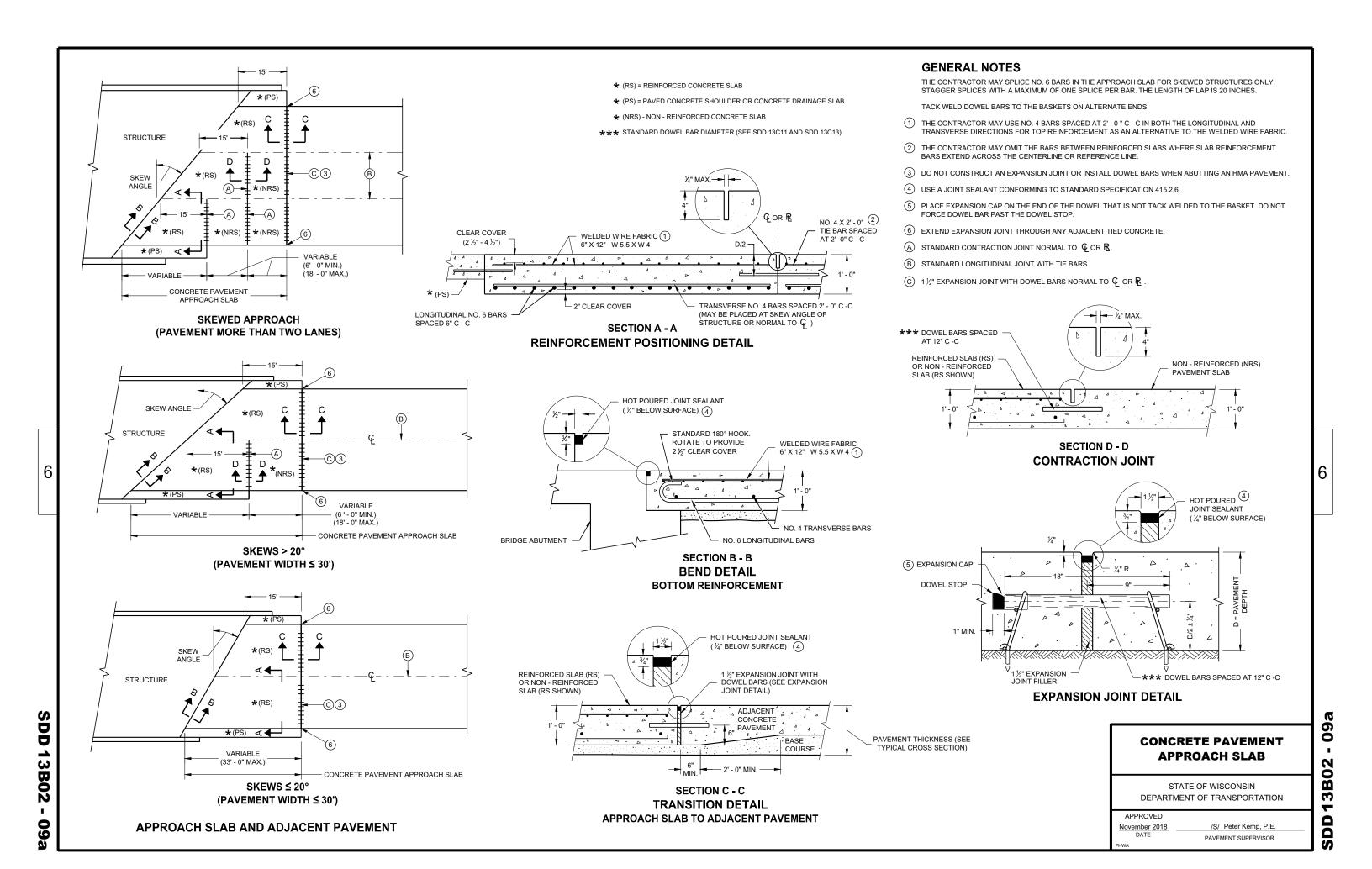
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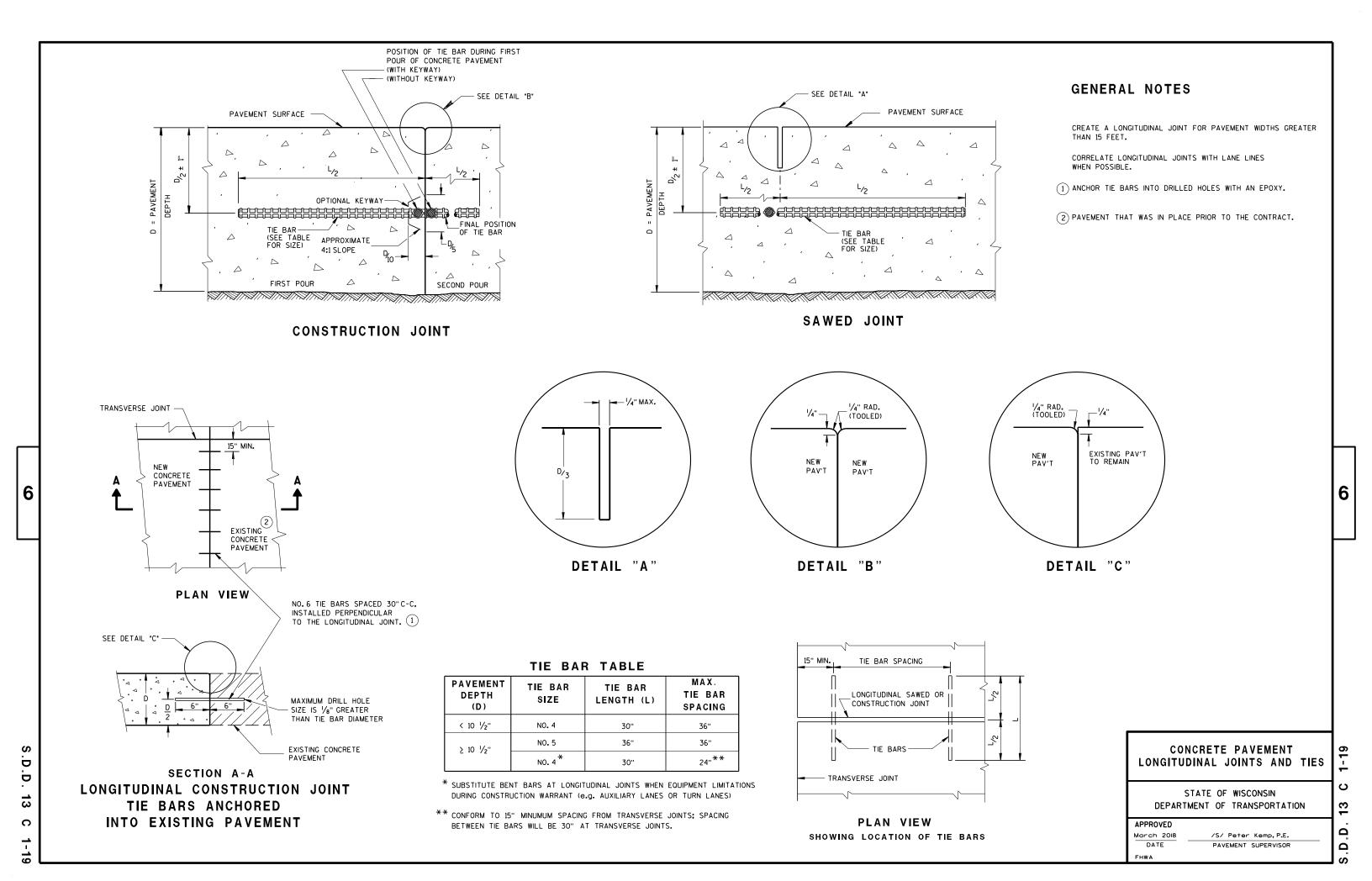
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

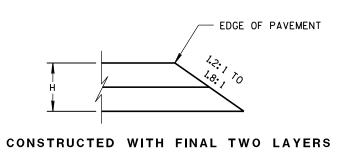
November 2022 DATE /S/ Peter Kemp PAVEMENT SUPERVISOR

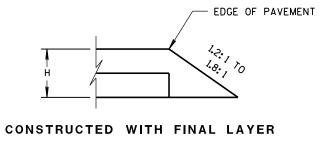
APPROVED



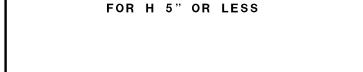


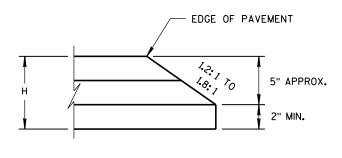






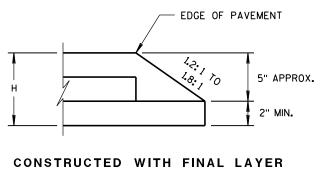
FOR H 5" OR LESS



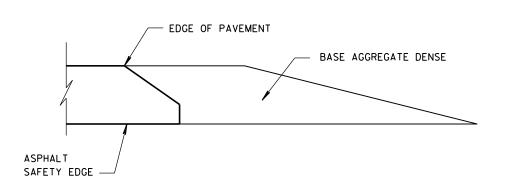


CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"



FOR H GREATER THAN 5"



FINISHED SHOULDER AGGREGATE PLACEMENT

HMA PAVEMENT AND HMA OVERLAYS

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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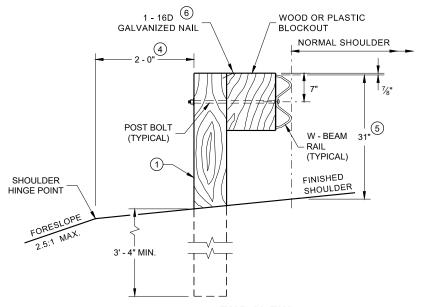
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APPROVED

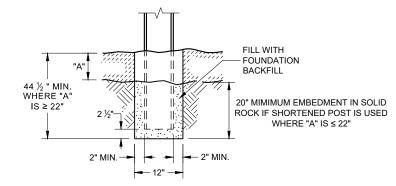
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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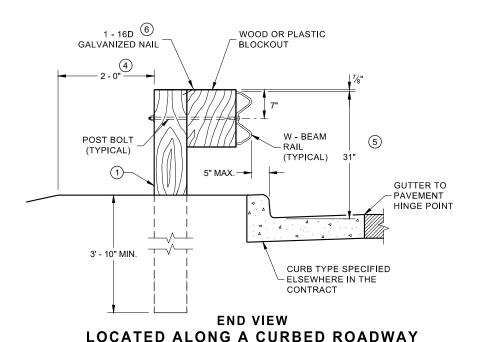
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $\fill \ensuremath{\texttt{5}}$  FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS \$\pm1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 % " TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.
- $\bigcirc$  TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".

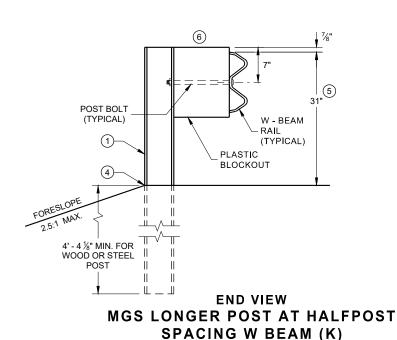


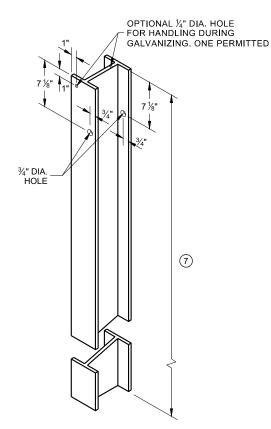
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



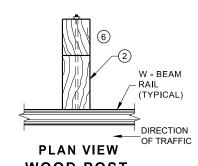
SETTING STEEL OR WOOD POST IN ROCK



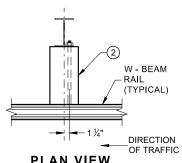




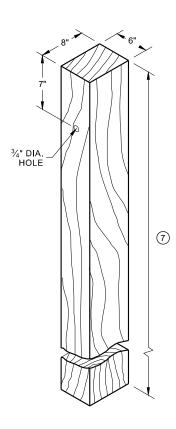
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



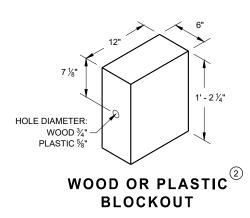
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

# FRONT VIEW HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

6' 3" C - C

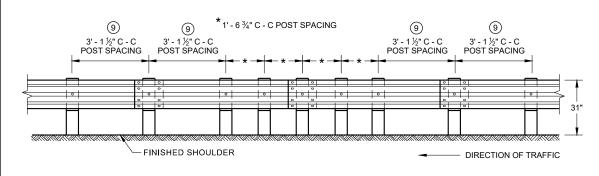
POST SPACING

DIRECTION OF TRAFFIC

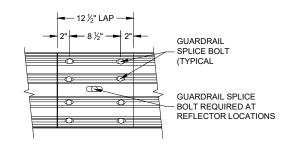
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW
QUARTER POST SPACING (QS)



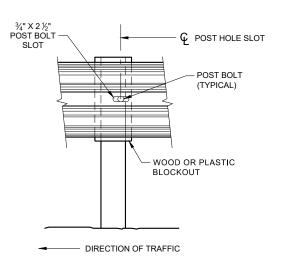
FRONT VIEW
MID-SPAN BEAM SPLICE

## **GENERAL NOTES**

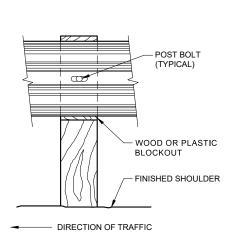
- 8 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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 ARE BEING USED.

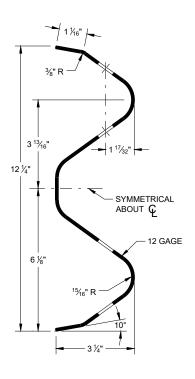
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



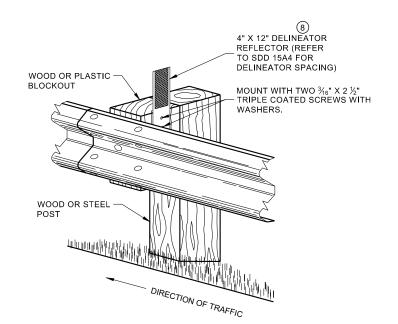
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



**SECTION THRU W-BEAM RAIL** 



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

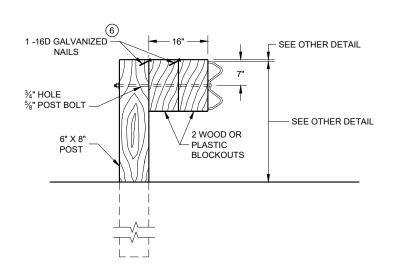
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

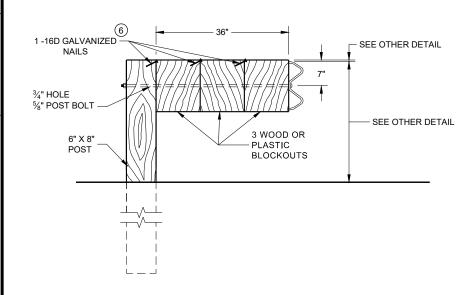
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#### **DETAIL FOR 16" BLOCKOUT DEPTH**

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



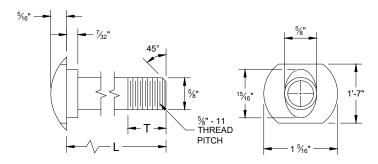
#### **DETAIL FOR 36" BLOCKOUT DEPTH**

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

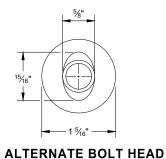
#### NOTE:

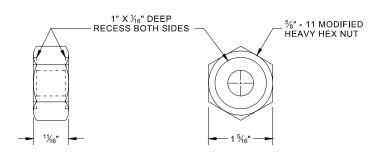
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF  $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN  $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



#### **POST BOLT TABLE**

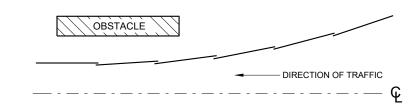
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



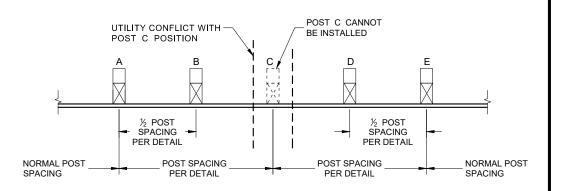


### POST BOLT, SPLICE BOLT **AND RECESS NUT**

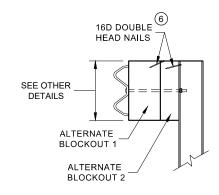
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

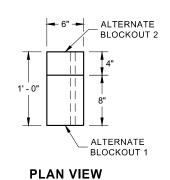


#### **PLAN VIEW BEAM LAPPING DETAIL**



## POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

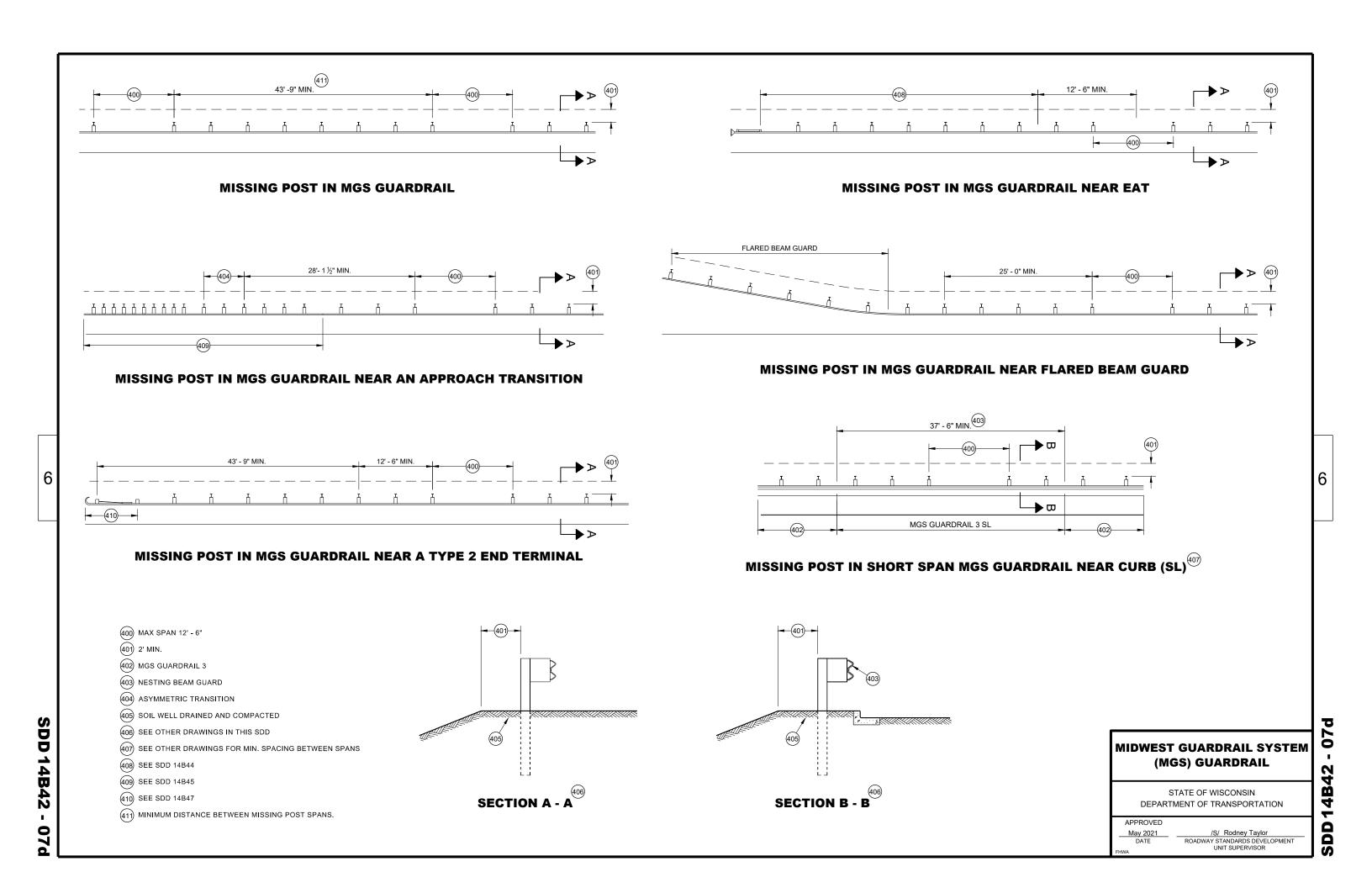
**ALTERNATE WOOD BLOCKOUT DETAIL** 

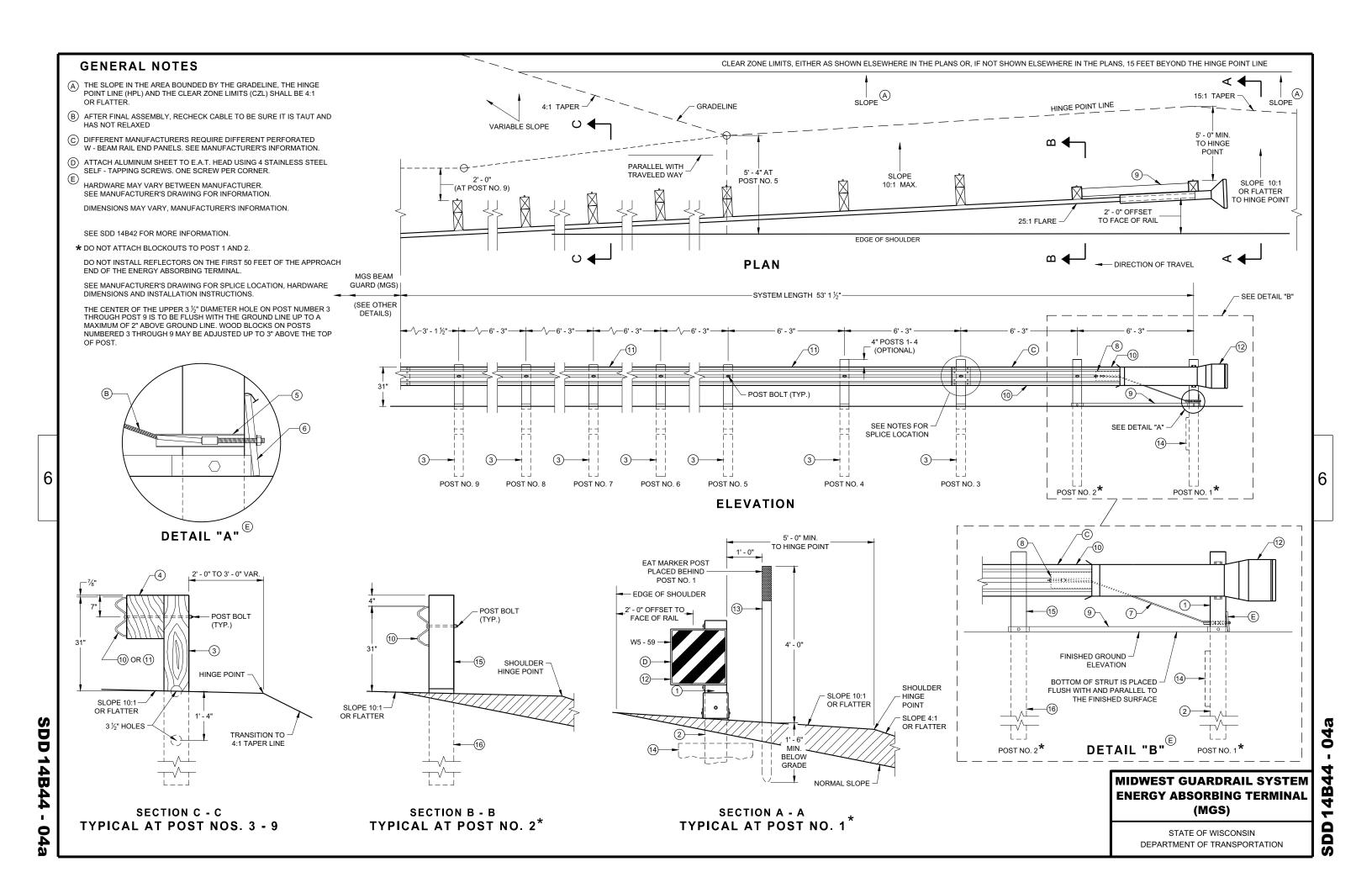
## **MIDWEST GUARDRAIL SYSTEM** (MGS) GUARDRAIL

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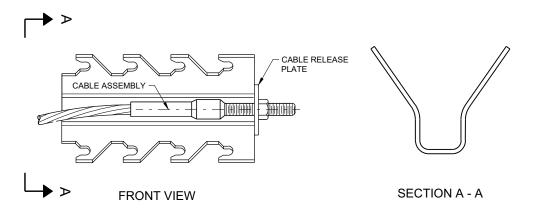
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

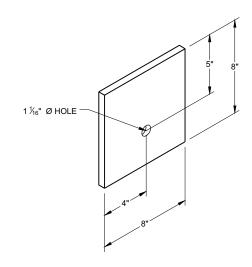




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX <sup>(9) (E)</sup>



BEARING PLATE

## MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

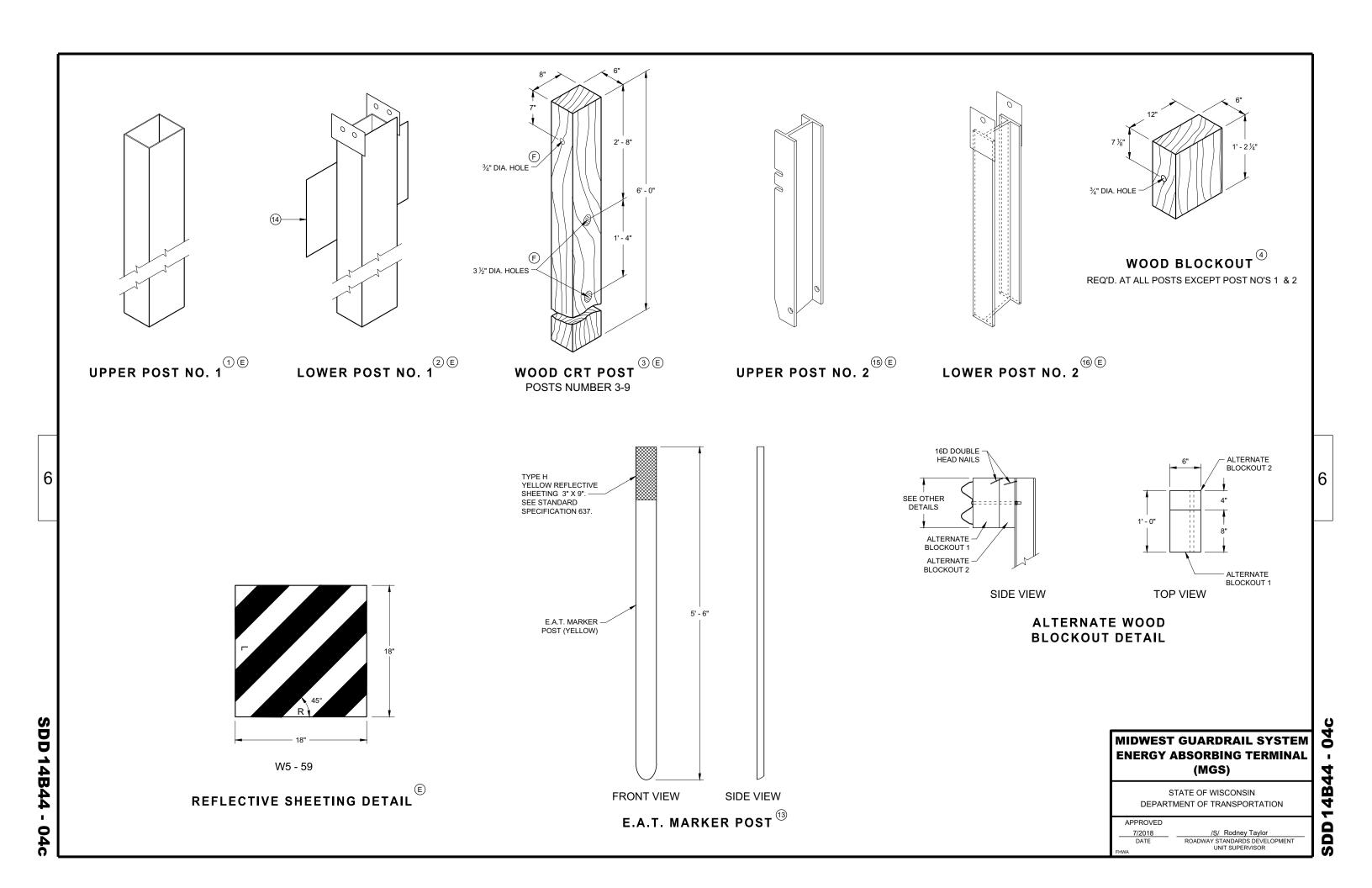
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

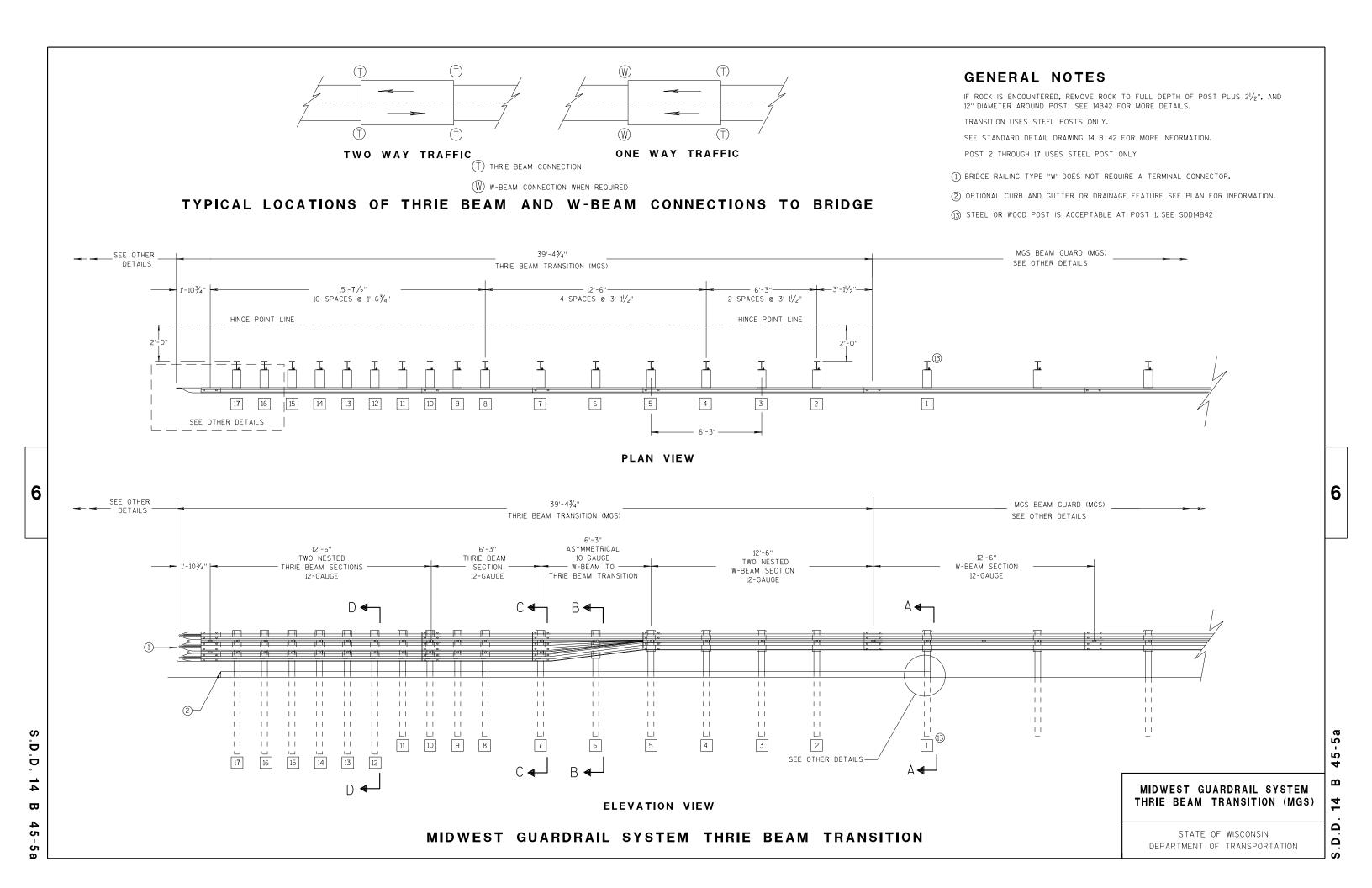
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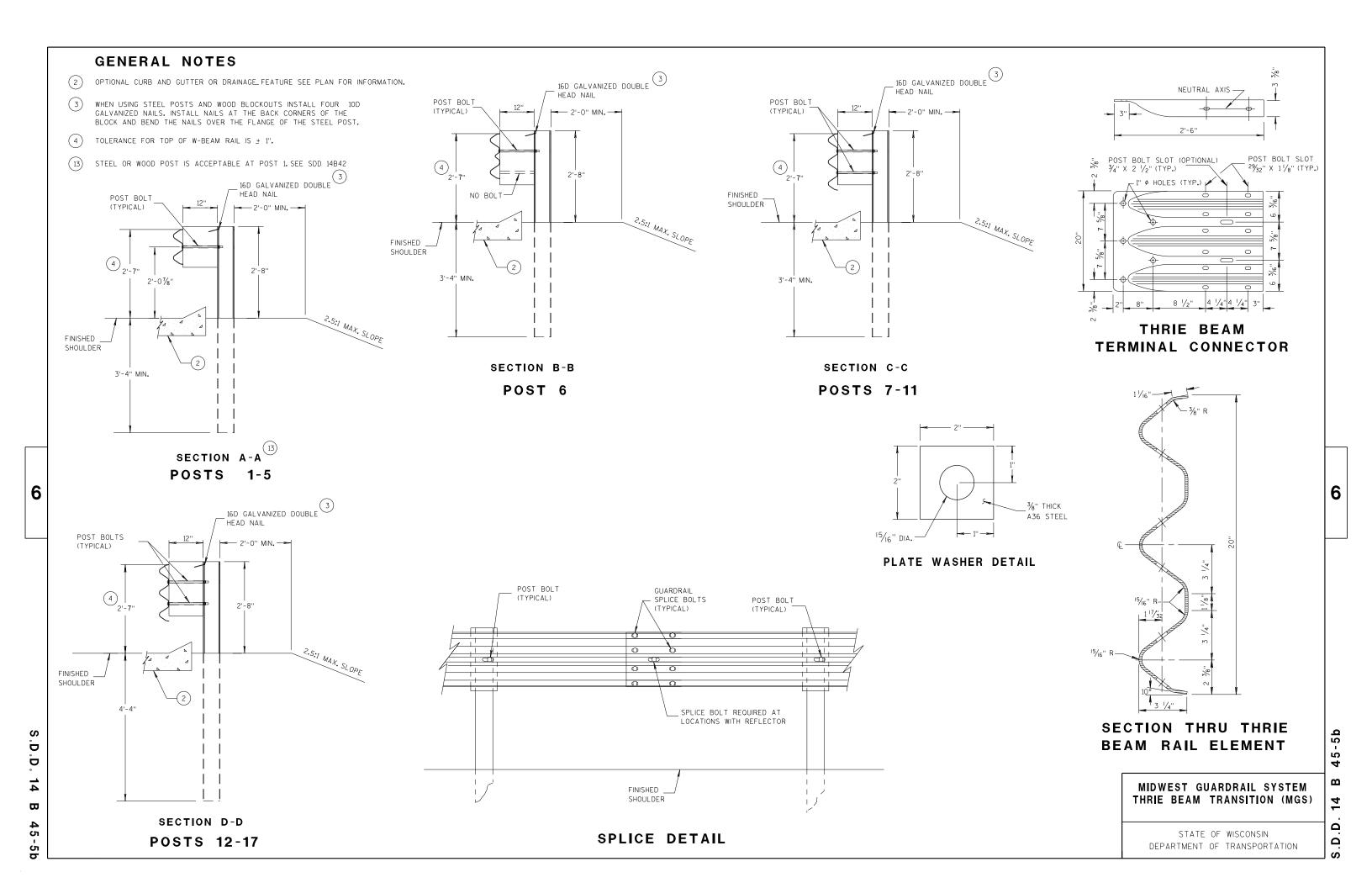
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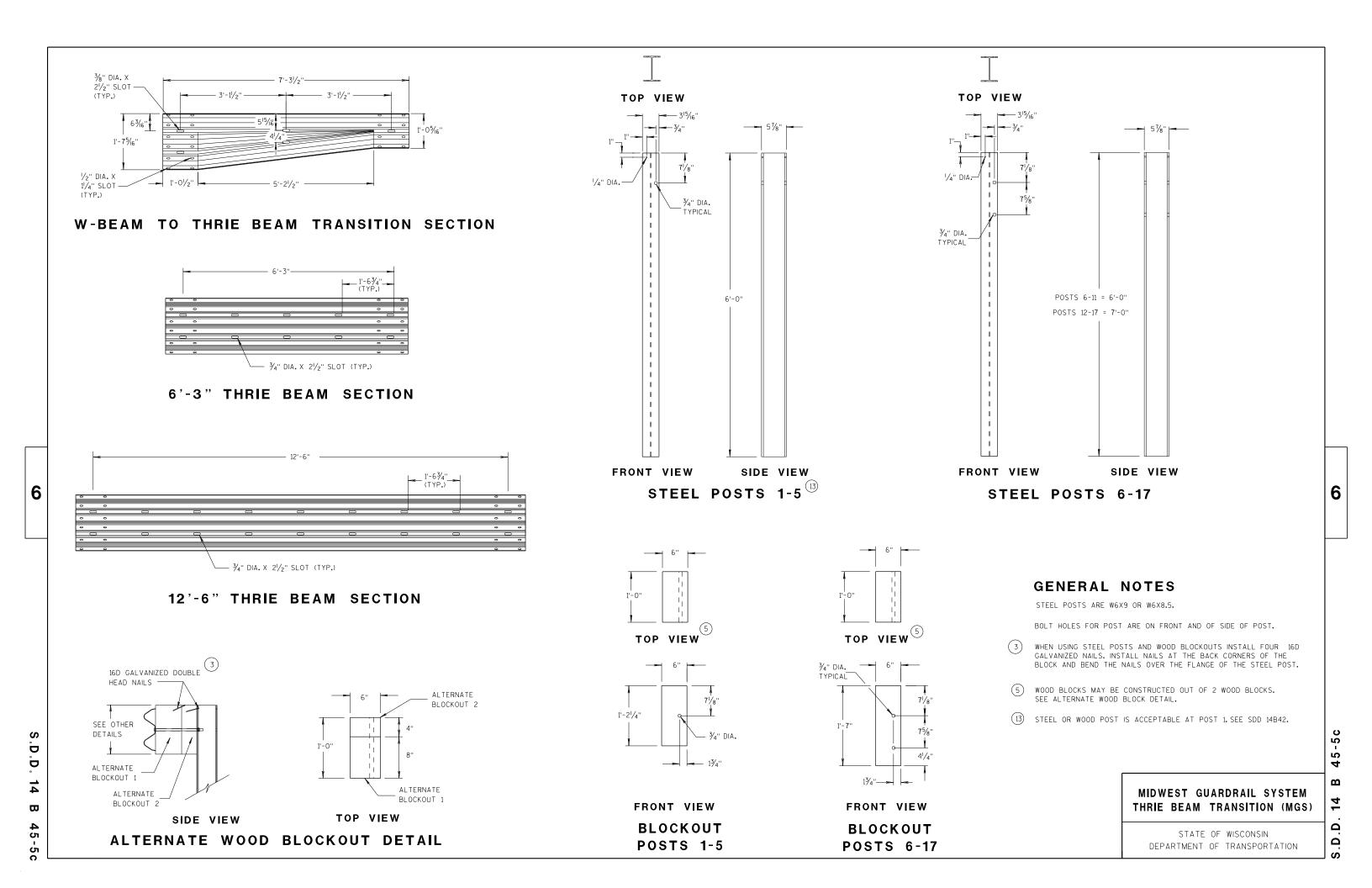
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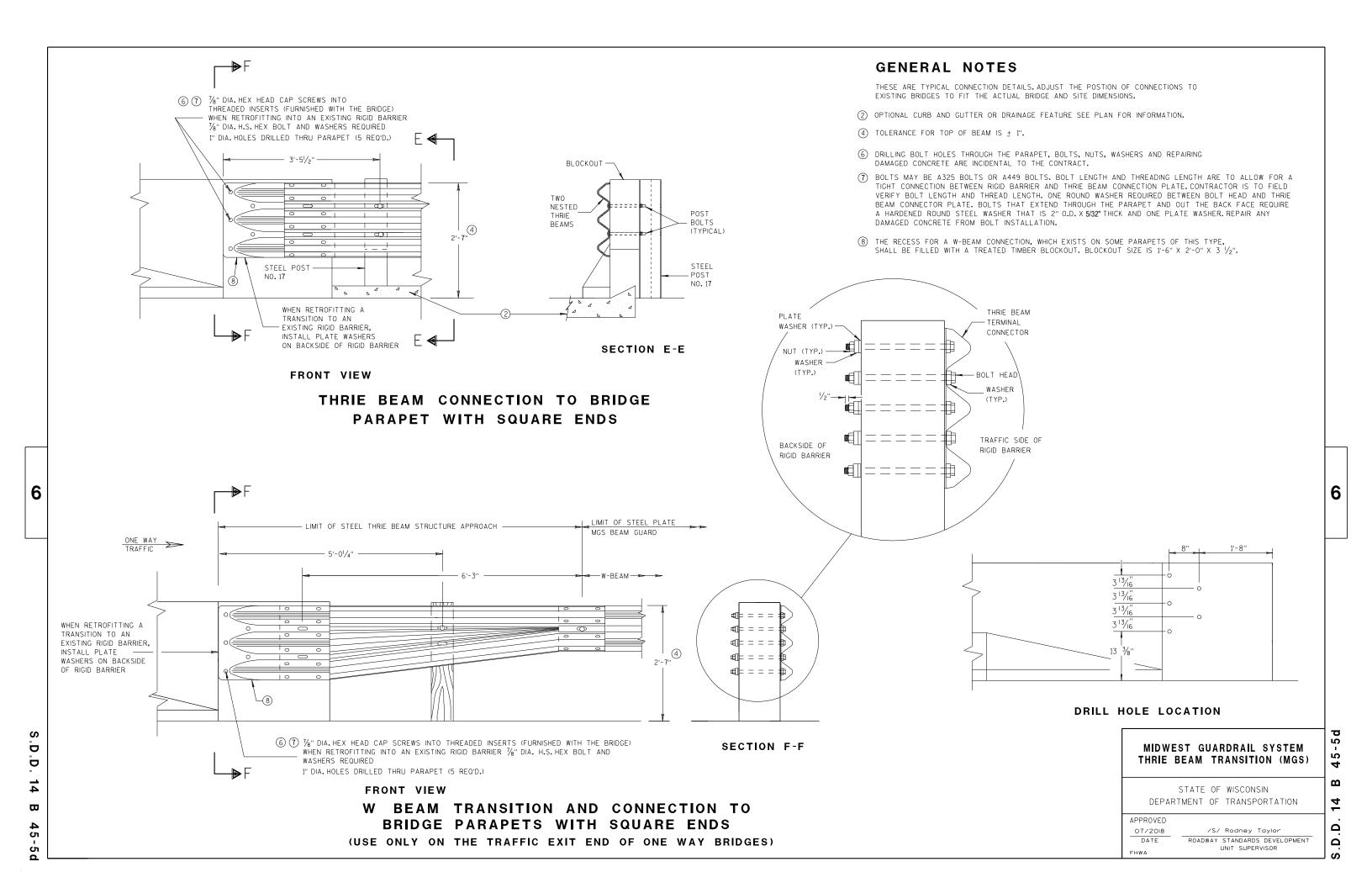
SDD 14B44 - 04



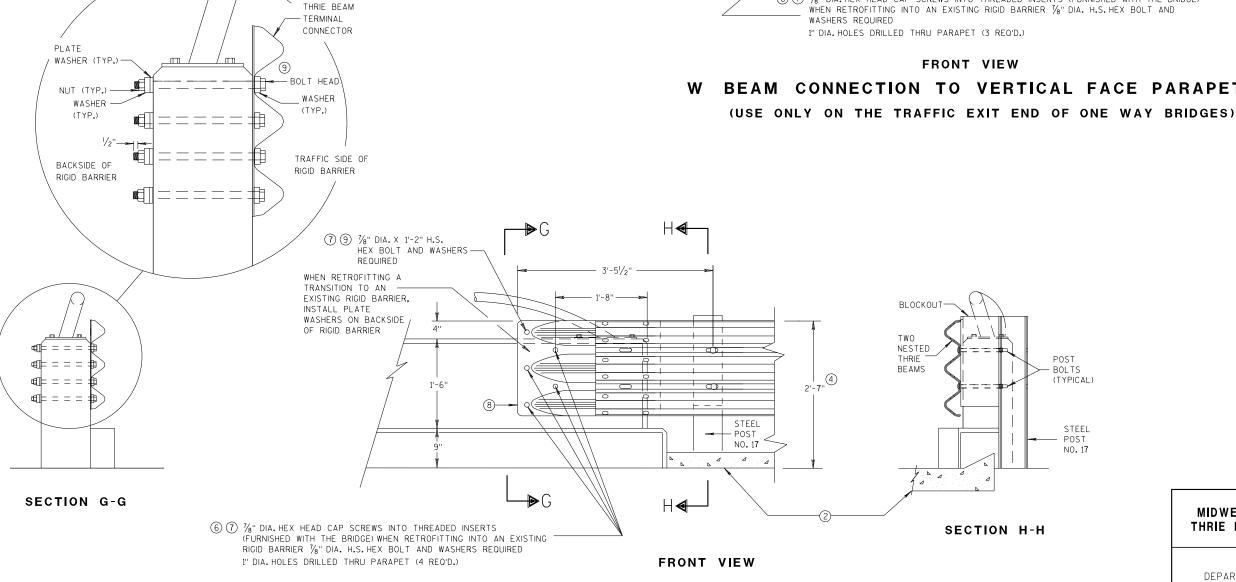








- (2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- (4) TOLERANCE FOR TOP OF BEAM IS ± 1".
- 6 DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- 7 BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE, BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- (8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".
- (9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.



THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

LIMIT OF STEEL PLATE 7 7/8" DIA. X 1'-2" H.S. MGS BEAM GUARD HEX BOLT AND WASHERS REQUIRED 5'-0 1/4" ONE WAY
TRAFFIC WHEN RETROFITTING A TRANSITION TO AN EXISTING RIGID BARRIER, INSTALL 9 PLATE WASHERS ON BACKSIDE OF RIGID BARRIER W BEAM TERMINAL 8 CONNECTOR (4) 2'-7' 6 7 %" DIA. HEX HEAD CAP SCREWS INTO THREADED INSERTS (FURNISHED WITH THE BRIDGE) WHEN RETROFITTING INTO AN EXISTING RIGID BARRIER 1/8" DIA. H.S. HEX BOLT AND

#### BEAM CONNECTION TO VERTICAL FACE PARAPET

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 07/2018 DATE

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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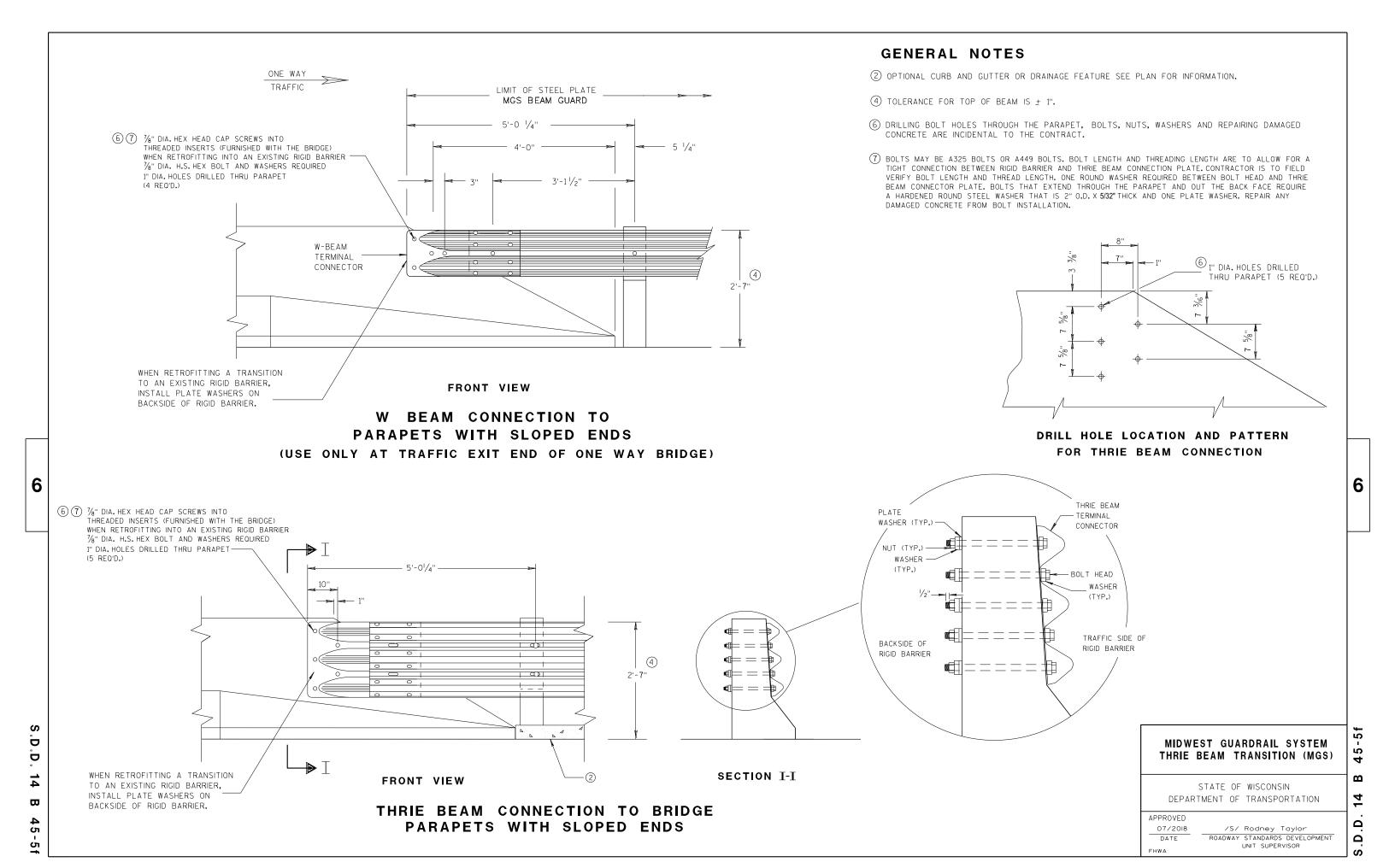
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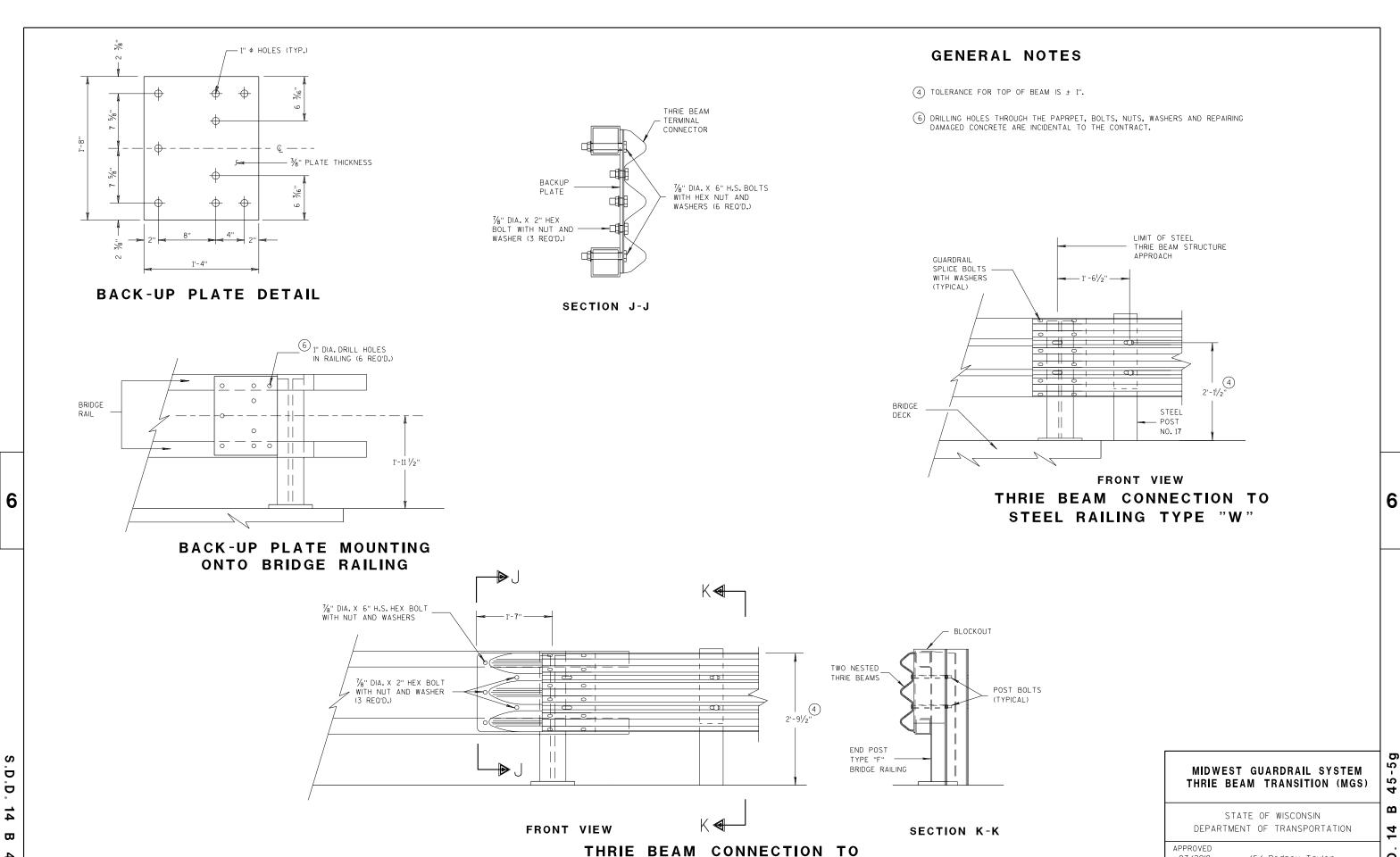
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TUBULAR RAILING TYPE "F"

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S.D.D. 14 B 45-5

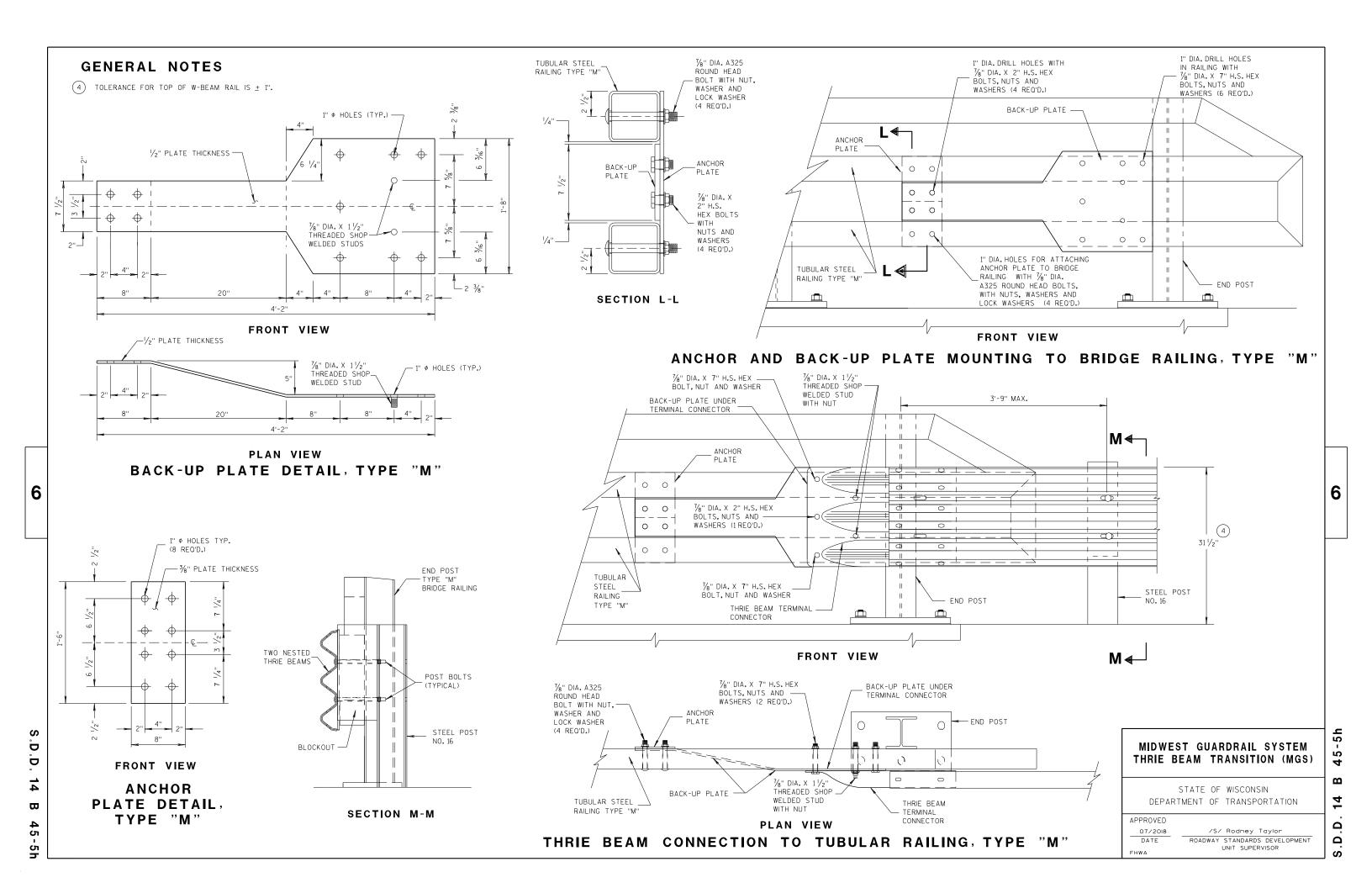
07/2018

DATE

/S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR



#### **WELDING INSTRUCTION**

21/2"

101/2"

(VIEWED FROM BACK SIDE OF PLATE)

#### PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)				
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS
P1	1	ВЁ	20" × 20"	3/16"
P2	1	B₽€	20" × 20" × 28%6"	3/16"
Р3	1	B <del>A</del> C D	39" × 35/8" × 20" × 195//6"	3/16"
S1	4	B A	187/6" × 35/8" × 183/4"	1/4"
S2	1	B O	$10^{1}/_{4}$ " × $2\frac{7}{16}$ " × $10\frac{3}{8}$ " × $\frac{1}{2}$ "	1/4"
S3	1	B₽D	3" × 1½6" × 3½" × ½"	1/4"
S4	1	В□	61/8" × 27/16"	1/4"
S5	1	в∟	61/8" × 11/16"	1/4"
S6	1	вФ	7¾" × 1¾"	1/4"
S7	1	ABC	2%6" × 6" × 3%" × 5%"	1/4"
S8	1	ABC	1 <sup>5</sup> / <sub>32</sub> " × 7 <sup>1</sup> / <sub>2</sub> " × 2 <sup>1</sup> / <sub>2</sub> " × 7 <sup>3</sup> / <sub>8</sub> "	1/4"
S9	1	CLA B	$6\frac{1}{16}$ " × $6\frac{3}{16}$ " × $1\frac{3}{32}$ "	1/4"
S10	1	ABC	1%" × 9%" × 3%" × 9"/ <sub>16</sub> "	1/4"
S11	1	C A	8½" × 8¾" × 1 <sup>13</sup> / <sub>16</sub> "	1/4"

BACK SIDE OF PLATE

#### SINGLE SLOPE CONNECTION PLATE

#### MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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GENERAL NOTES

COVER PLATE PANELS ARE 3/6" THICK.

BACK SIDE OF PLATE

7/2018 /S/ Rodney Taylor

DATE ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

S.D.D. 14 B 45-5

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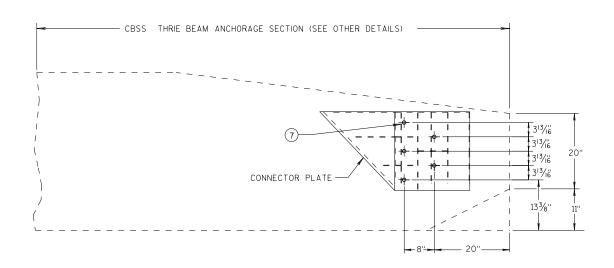
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#### THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

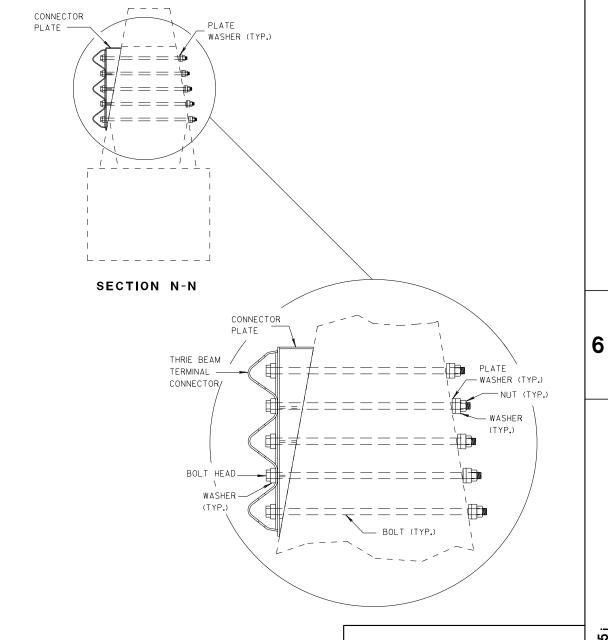


#### SINGLE SLOPE CONNECTION PLATE PLACEMENT

#### **GENERAL NOTES**

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

- 2 OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- ONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



#### MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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7/2018
DATE
ROADWAY

/S/ Rodney Taylor

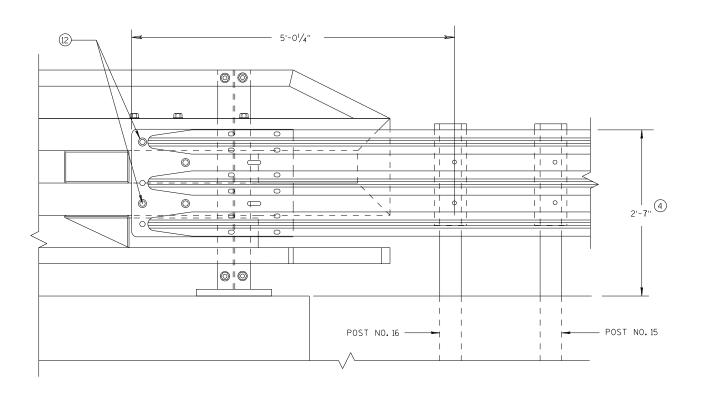
ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

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THRIE BEAM RAIL ATTACHMENT



#### ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

#### **GENERAL NOTES**

- 4) TOLERANCE FOR TOP OF BEAM IS ± 1".
- (2) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

#### MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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7/2018 /S/ RODNEY Taylor

DATE ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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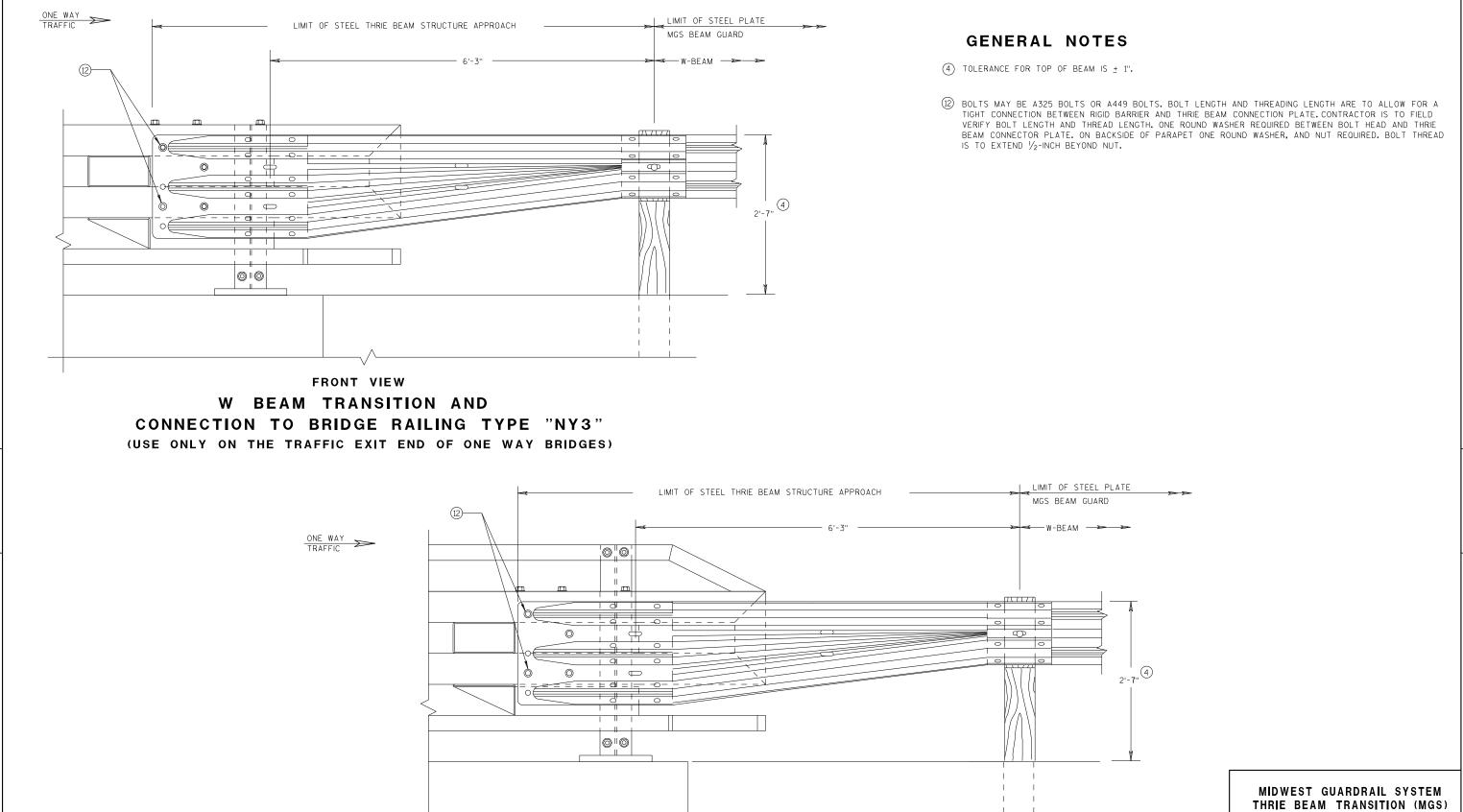
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FRONT VIEW

W BEAM TRANSITION AND

CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

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/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

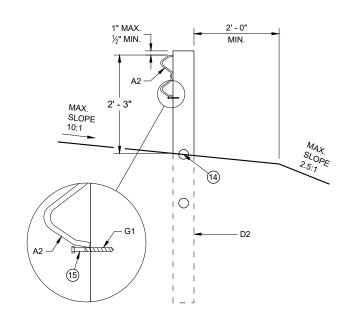
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

DATE

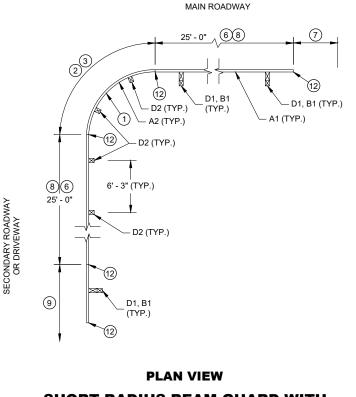
#### **PLAN VIEW**

#### **SHORT RADIUS BEAM GUARD WITH SHORT RADIUS TERMINAL ON SECONDARY ROAD OR DRIVEWAY**

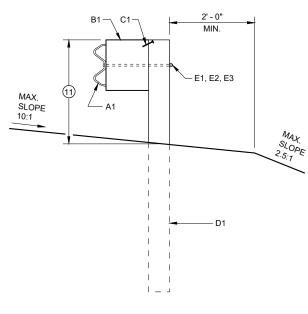


**CONTROLLED RELEASE** 

**TERMINAL POST (CRT) IN RADIUS** 



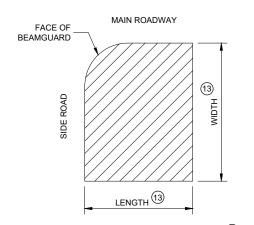
#### **SHORT RADIUS BEAM GUARD WITH EAT, ADDITIONAL BEAM GUARD** TRANSITION TO RIGID BARRIER ON **SECONDARY ROAD OR DRIVEWAY**



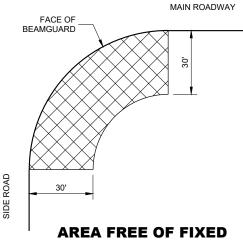
**BEAM GUARD POSTS** IN HEIGHT TRANSITION

#### **TABLE FOR RADIUS OF 32' AND LESS**

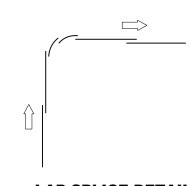
RADIUS (FT)	LENGTH (FT)	WIDTH (FT)
8	25	15
16	30	15
24	40	20
32	50	30



#### AREA FREE OF FIXED 16 **OBJECTS FOR RADIUS** 32' AND LESS



#### **OBJECTS FOR RADIUS GREATER THAN 32'**



LAP SPLICE DETAIL

#### **GENERAL NOTES**

SEE PLANS FOR OTHER BARRIER SYSTEM AND LOCATION SPECIFICS.

SEE SDD 14B42 FOR MORE INFORMATION ON BEAM GUARD INSTALLATION, PARTS, MATERIALS, AND INSTALLATION INFORMATION.

- 1) RADIUS MEASURE FROM INSIDE OF RAIL. LENGTH OF BEAM GUARD SHORT RADIUS

- 8 TOP OF BEAM GUARD BY THE RADIUS IS 27". HEIGHT OF BEAM GUARD IS 31" BY
- (9) ADDITIONAL BEAM GUARD, EAT OR TRANSITION TO RIGID BARRIER. BEAM GUARD

**SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)**  0

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

**SDD 14B53** 02a

**SHORT RADIUS TERMINAL** 

**SDD 14B53** 

02b

STATE OF WISCONSIN

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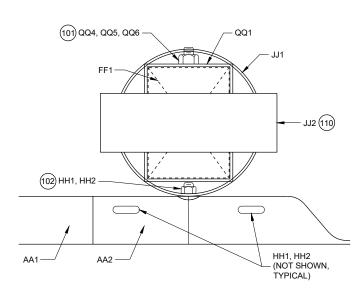
DEPARTMENT OF TRANSPORTATION

**GUARD (MGS) SHORT** 

**RADIUS TERMINAL (MGS)** 

#### **PROFILE VIEW**

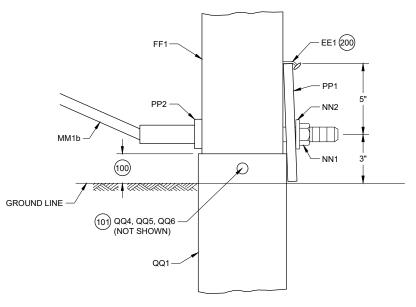
## DETAIL "B" STEEL PIPE ASSEMBLY (BEAM GUARD AND W BEAM END SECTION NOT SHOWN)



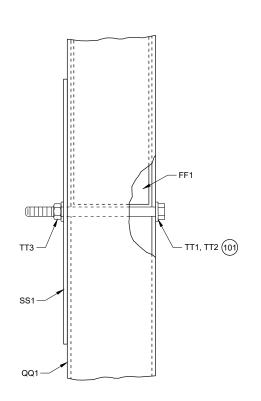
PLAN VIEW
DETAIL "B"
STEEL PIPE ASSEMBLY

#### **GENERAL NOTES**

(200) TWO (2) NAILS SPACED 4 INCHES CENTER TO CENTER.



PROFILE VIEW
DETAIL "C"



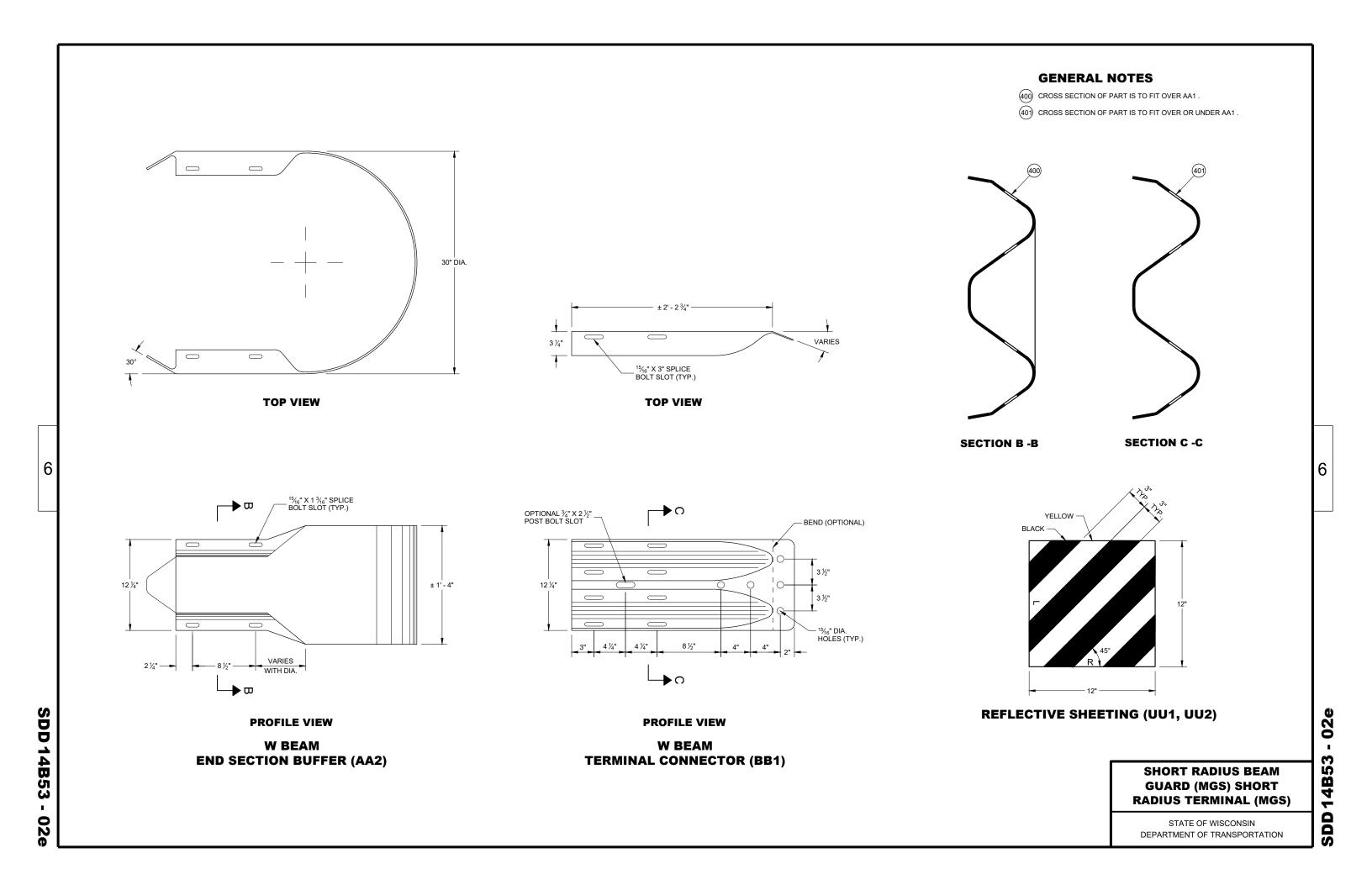
PROFILE VIEW
DETAIL "D"

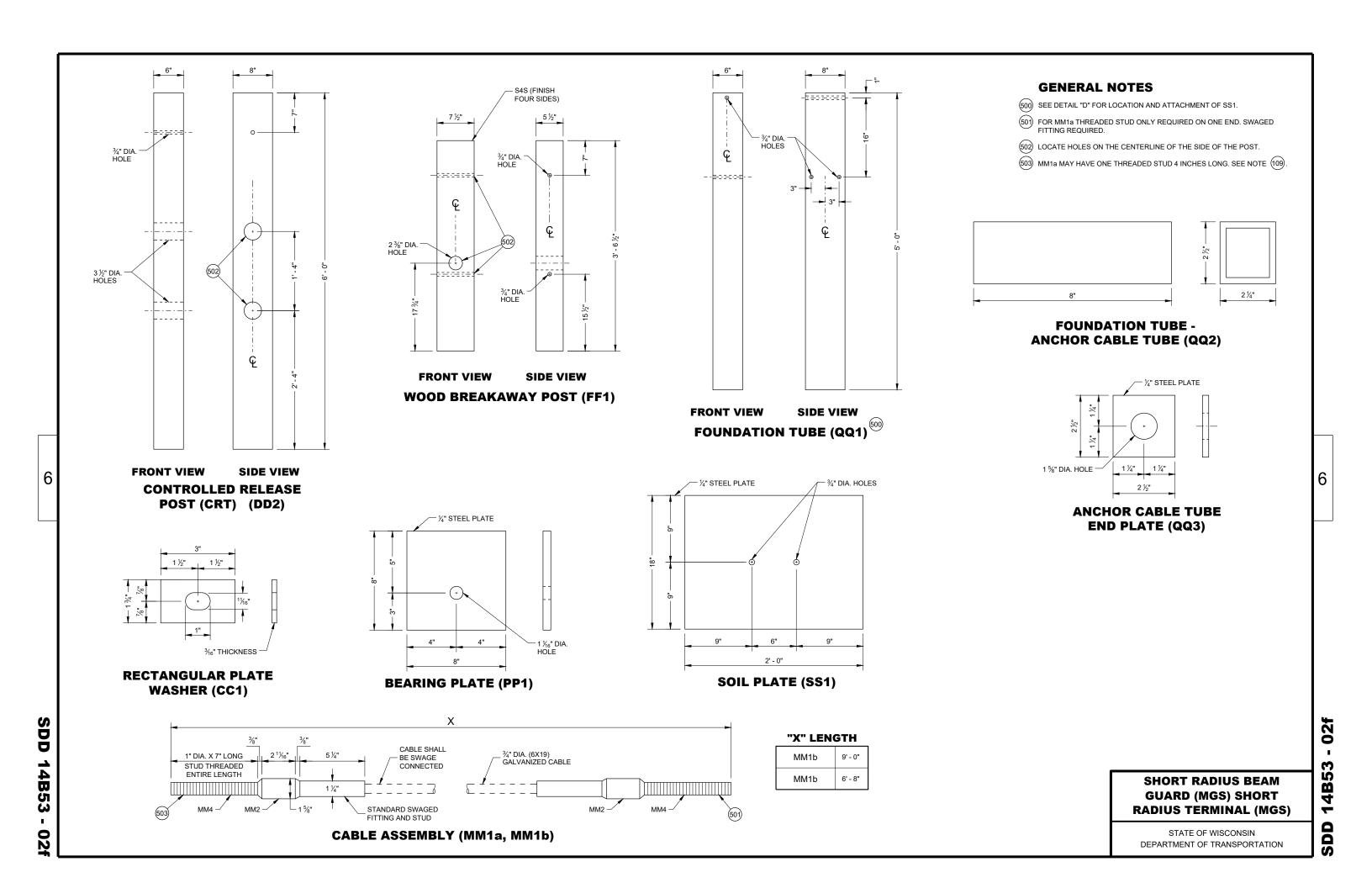
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B53 - 02d

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION





PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES	
A1	BEAM GUARD RAIL	AASHTO M180, CLASS A, TYPE 2		
AI	BEAM GUARD RAIL	APPROVED PRODUCER		
		INDICATE ON BACK OF RAIL THE RADIUS THAT RAIL WAS BENT TO. SHOP BEND RADIUS IS TO THE NEAREST FOOT. FOLLOW AASHTO M180 ON HOW TO MARK RADIUS INFORMATION.		
A2	BEAM GUARD RAIL - SHOP BENT	AASHTO M180, CLASS A, TYPE 2		
		APPROVED PRODUCER		
B1	BLOCK - WOOD	WISDOT SPEC. 614	SEE SDD 14B42	
C1	NAIL	ASTM A153 HOT DIP CLASS D		
Ci	NAIL	ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEAD)		
D1	POST-STRONG POST-WOOD	WISDOT SPEC. 614	SEE SDD 14B42	
D2	POST-CRT-WOOD	WISDOT SPEC. 614		
		ASTM A307 GRADE A OR SAE J429 GRADE 2		
		AASHTO M180	5⁄8" DIA.	
E1	POST BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	SEE SDD 14B42 FOR BOLT GEOMETRY	
		UNC		
E2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	%" DIA.	
EZ	POST BOLT - WASHER	GALV. AASHTO M111/ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329		
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD		
	POST BOLT - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	- 5%" DIA.	
E3		UNC	SEE SDD 14B42 FOR BOLT GEOMETRY	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563		
		ASTM A563 GRADE A HEAVY HEX HEAD		
F1		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	<sup>5</sup> %" DIA.	
	SPLICE BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	SEE SDD 14B42 FOR BOLT GEOMETRY	
		UNC		
		AASHTO M180		

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
F2	SPLICE BOLT - NUT	ASTM A563 GRADE A	
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	5%" DIA.  SEE SDD 14B42 FOR BOLT GEOMETRY
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
G1	LAG SCREW	ASTM A308 GRADE A ASTM A153 CLASS D	½" DIA. 6" LONG
H1	DELINEATOR - BEAM GUARD		SEE SDD 14B42 FOR MORE INFORMATION
		YELLOW OR WHITE	
H2	DELINEATION - SHEETING	WISDOT SPEC 637 TYPE SH	
		APPROVED PRODUCT LIST	
J1	FOUNDATION BACKFILL	STANDARD SPEC. 614	
		AASHTO M180, CLASS A, TYPE 2	
AA1	BEAM GUARD RAIL - PUNCHED	APPROVED PRODUCER	
440	BEAM GUARD RAIL - END SECTION	AASHTO M180, CLASS A, TYPE 2	
AA2	BUFFER	APPROVED PRODUCER	
BB1	BEAM GUARD RAIL - TERMINAL	AASHTO M180, CLASS A, TYPE 2	
DDI	CONNECTOR MODIFIED	APPROVED PRODUCER	
CC1	SHORT RADIUS - SQUARE	AASHTO M180	
CCT	WASHER	GALV. AASHTO M111/ASTM A123	
EE1	NAIL	ASTM A153 HOT DIP CLASS D	
661	NAIL	ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEADED)	
FF1	POST - BCT - WOOD	S4S FINISH ON 4 SIDES	
FFI	F031 - BC1 - W00D	WISDOT SPEC. 614	
		ASTM A307 GRADE A OR SAE J429 GRADE 2	3%" DIA.
		AASHTO M180	SEE SDD 14B42 FOR BOLT GEOMETRY
GG1	POST BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
GG2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	- ¾" DIA.
		GALV. AASHTO M111 / ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329	.,

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

RADIUS TERMINAL (MGS)

6

SDD 14B53 - 02g

SDD 14B53 - 02g

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
		ASTM A563 GRADE A	3⁄8" DIA.
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	SEE 14B42 FOR GEOMETRY
GG3	POST BOLT - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	- ¾" DIA.
HH1	SPLICE BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	SEE SDD 14B42 FOR
		UNC	BOLT GEOMETRY
		AASHTO M180 HEAD GEOMETRY	
		ASTM A563 GRADE A	
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
HH2	SPLICE BOLT - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	%" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
JJ1	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	10" O.D.
JJ2	TOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS %" X 4" X 1' - 0"
		GALV. AASHTO M111 / ASTM A123	
KK1	ANCHOR BRACKET	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	-
KK2	ANCHOR BRACKET - BEARING PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
		ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	
LL1	ANCHOR BRACKET - BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	%" DIA.
		UNC	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
		ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	
LL2	ANCHOR BRACKET - WASHER	GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
LL3		ASTM A563 GRADE A	
	ANCHOR BRACKET - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5⁄8" DIA.
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	.0
		UNC	
ММ1а	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM1b	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
		ASTM A576 GRADE 1035	
	ANCHOR CABLE - SWAGE FITTING	SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. WITH A BREAKING STRENGTH 40,000 LBS.	
MM2		GALV. AASHTO M111 / ASTM A123	
		ASME B30.26 FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING INTO CONNECTION: NAME OF MANUFACTURER OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE.	
MM3	WIRE ROPE CABLE CLAMPS	FF-C-450D TYPE 1 CLASS 1	3/4"
		ASTM A153 HOT DIP CLASS D	
		ASTM F3125 GRADE A325 TYPE 1 OR SAE GRADE 5 OR ASTM A449 TYPE 1 HEAVY HEX HEAD	
MM4	ANCHOR CABLE - SWAGE FITTING - STUD	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		ASTM A563 GRADE A	
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
NN1	ANCHOR CABLE - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	1" DIA.
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
		ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	
NN2	ANCHOR CABLE - NUT - WASHER	GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	1" DIA.

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SDD 14B53 - 02h

SDD 14B53 - 02h

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES	
SS1	SOIL PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI		
		GALV. AASHTO M111/A123		
		ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD		
TT1	SOIL PLATE - BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1		
		UNC		
	SOIL PLATE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)		
TT2		SOIL PLATE - WASHER  GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F23		
ТТ3	SOIL PLATE - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	% DIA.	
		MUTCD / WISDOT OBJECT MARKER TYPE 3	PATTERN AND	
UU1	OBJECT MARKER - SHEETING	WISDOT SPEC 637 TYPE F	COLOR FOR SHEETING. SHEETING TYPE	
		APPROVED PRODUCT LIST	FOR MARKER.	
UU2	OBJECT MARKER - ALUMINUM PLATE	WISDOT SPEC 637 ALUMINUM PLATE	MATERIAL AND THICKNESS OF MATERIALS	
UU3	OBJECT MARKER - SCREWS	STAINLESS SELF-TAPPING SCREWS		
VV1	FOUNDATION BACKFILL	WISDOT SPEC 614		

#### **SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

May 2022 /S/ Rodney Taylor

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

02i

**02i** • 14B53 SD





#### **DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW**



#### **DETAIL E** LANE CLOSURE BARRICADE DETAIL **APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

#### **GENERAL NOTES**

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2. R11 - 3. M4 - 9. R11 - 4. AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE 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)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" 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"

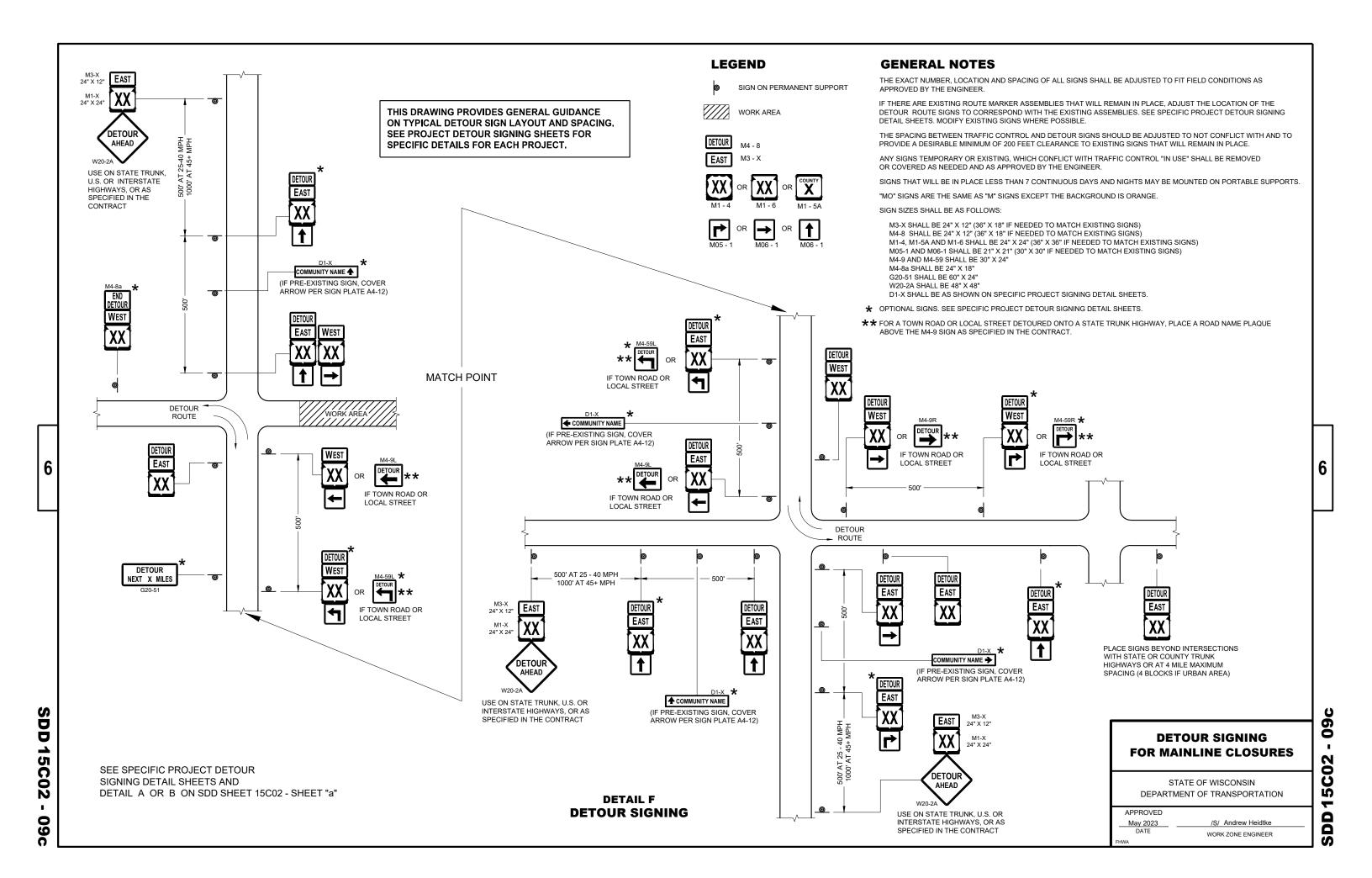
- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> 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 ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

#### **BARRICADES AND SIGNS** FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

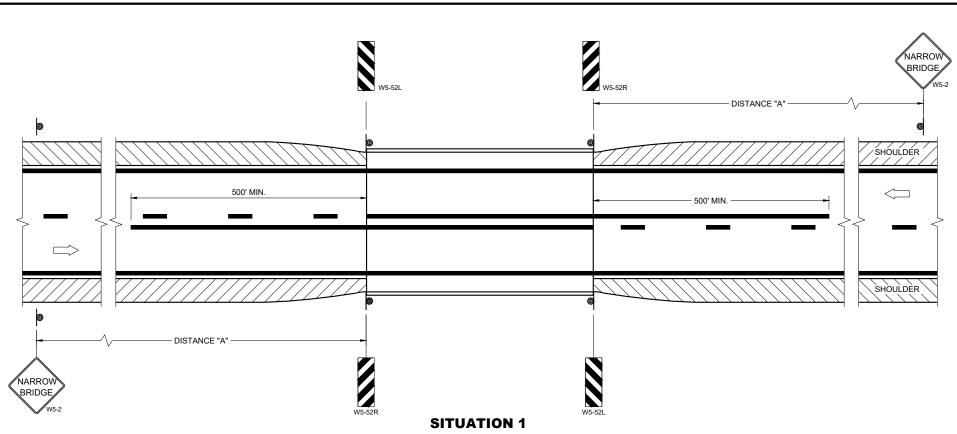
**APPROVED** May 2023 DATE WORK ZONE ENGINEER

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# SDD 15C06-12



WARRANTING CRITERIA: BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

# OR SHOULDER SHOULDER WS-52R WS-52L

SITUATION 2

WARRANTING CRITERIA: 1. BRIDGE WIDTH IS AT LEAST 24 FEET <u>AND</u> 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

SDD

15C06-12

**GENERAL NOTES** 

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.

1) OMIT ON ONE-WAY TRAVELED WAYS.

#### LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

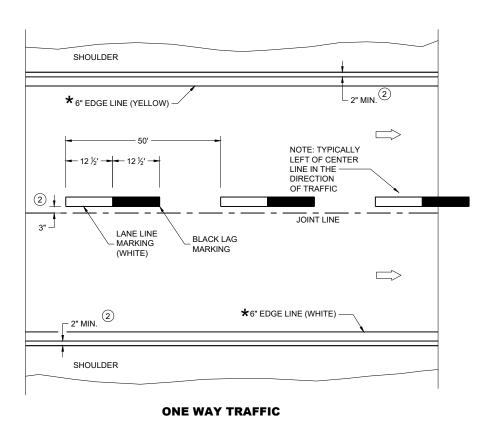
#### DISTANCE TABLE

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

#### SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2023	/S/ Jeannie Silver
DATE	Statewide Pavement Marking Engineer
FHWA	



**PERMANENT PAVEMENT MARKING** 

#### **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

PERMANENT LONGITUDINAL **PAVEMENT MARKINGS** 

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

May 2023 DATE

/S/ Jeannie Silver Statewide Pavement Marking Engineer

6

SDD

C08-23 Ŋ SD

15C08-23a





RURAL AREA (See Note 2)



#### 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 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" ( $\pm$ ) 3". 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" ( $\pm$ ) 3".

- 3. For expressways and freeways, mounting height is 7'- 3"  $(\pm)$  3" or 6'-3"  $(\pm)$  3" depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ( $\frac{+}{-}$ ) 3''.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) 3'' or as directd by the Engineer.

2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
( Sq.Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

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.

\* 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.

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. \_\_A4-3.23

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



#### **ELEVATION VIEW**

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42





2'Min - 4'Max (See Note 6)



	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRE)	
	L	E
***	Greater than 48" Less than 60"	12''
	60" to 108"	L/5

HWY:

SIGN SHAPE OTHER THAN	DIAMOND
(THREE POSTS REQUIR	RED)
L	Е
Greater than 108" to 144"	12''

#### 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" (±) 3" or 6'-3" (±) 3" 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'' ( $\pm$ ) 3'' or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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.
- $\times \times \times$  See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

#### POST EMBEDMENT DEPTH

	ı
Area of Sign	
Installation	D
( Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

PLATE NO. <u>A4-4.16</u>

Ε

CUEET NO.

SHEET NO:

FILE NAME : C:\CAEfiles\Project\tr\_stdplate\A44.dgn

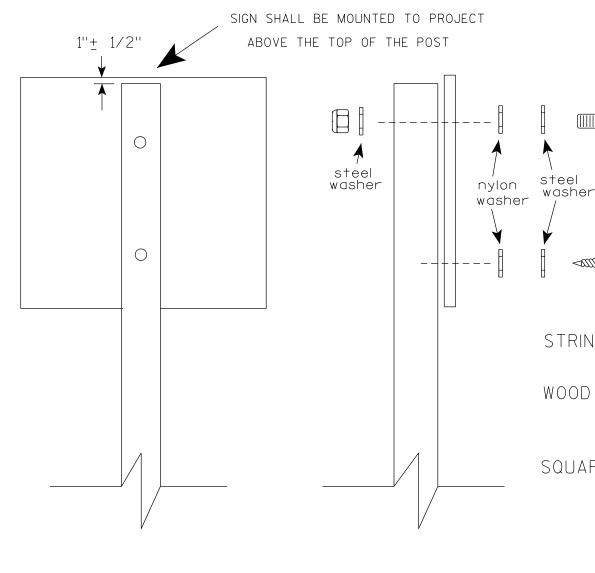
PROJECT NO:

COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h



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 on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS -  $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS  $(4'' \times 6'')$ 

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

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)

RIVETS - 3/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ " STEEL 1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

APPROVED

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A48.DGN

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

WISCONSIN DEPT OF TRANSPORTATION

Matther ≠or State Traffic Engineer

SHEET NO:



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer



#### BANDING



SINGLE SIGN





### WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X<sup>3</sup>/<sub>8</sub>" I.D. X<sup>1</sup>/<sub>16</sub>" STEEL 1-1/4" O.D.  $\times \frac{3}{8}$ " I.D.  $\times$  .080 NYLON FOR ALL TYPE H SIGNS

CHANNEL

#### GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be  $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

#### "J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

PROJECT NO:

31/2"

VIEW FROM TOP

#### GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL,  $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

  SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $3/_{8}$ " I.D. X  $1/_{16}$ "
- 8. NYLON WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 $\rightarrow$  LAG BOLTS SHALL BE  $\frac{3}{8}$ " X  $\frac{2}{2}$ "

BLOCK BANDING DETAIL ( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

APPROVED //

DATE 4/19/2022 PLATE NO. \_A5-10.3

ATE 4/19/2022 PLATE NO. \_

SHEET NO:

SIGN

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A510.dgn

PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

#### NOTES

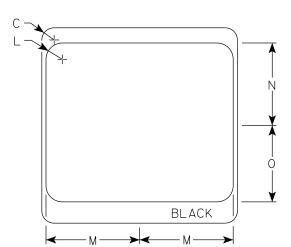
- 1. Sign is Type II Type H Reflective
- 2. Color:

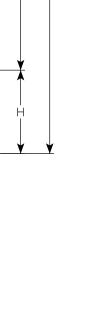
Background - White & Black Message - Black

- 3. Message Series see Note 4
- 4. Message Series E for 1 letter.

  Message Series D for 2 letters unless
  message is too big then Series C.

  Message Series C for 3 letters unless
  message is too big then Series B.
- 5. Substitute appropriate letters & optically center to achieve proper balance.

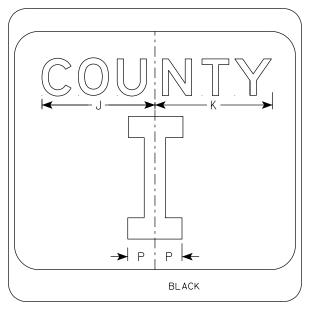


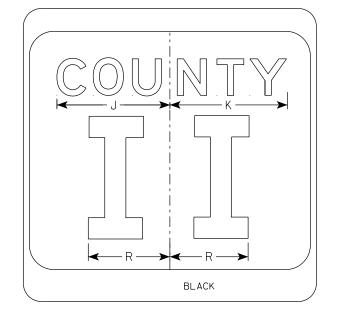


BLACK

HWY:

M1-5A





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Χ	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
2M	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 %	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

COUNTY:

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

For State Traffic Engineer

DATE 11/8/2022

PLATE NO. <u>M1-5A.9</u>

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\M15A.dgn

PROJECT NO:

PLOT DATE: 8-NOV 2022 8:26

PLOT BY : dotc4c

PLOT NAME :

1. All Signs Type II - Type H Reflective

NOTES

2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. 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.
- 5. M3-1 thru M3-4 Background - White

Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

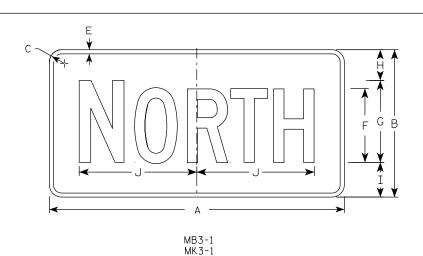
MN3-1 thru MN3-4 Background - Brown

Message - White

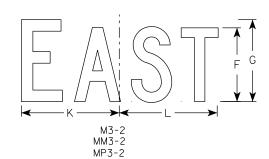
MP3-1 thru MP3-4 Background - White

Message - Blue

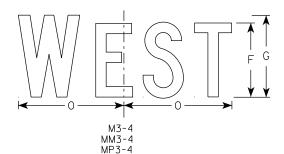
6. Note the first letter of each direction is larger than the remainder of the message.

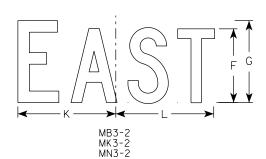


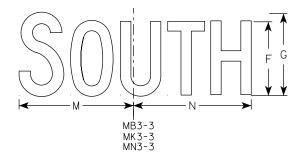
M3-1 MM3-1 MP3-1

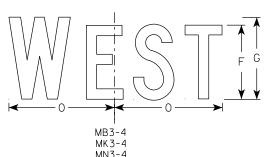


MM3-3









SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
2N	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

STANDARD SIGNS M3-1 THRU M3-4 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 2/8/2023 PLATE NO. <u>M3-1.1</u>5

PROJECT NO: HWY: COUNTY: SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\_M31.dgn

PLOT DATE: 8-FEB 2023 11:00

PLOT BY : dotc4c

PLOT NAME :

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series B
- 4. 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.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
			- / 2	/ 0	/ 2		, , ,	, 0	- / 2																		

COUNTY:

STANDARD SIGN M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthe R Rauch

DATE 2/9/2023 PLATE NO. M4-8.4

SHEET NO:

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr\_stdplate\M48.dgn

HWY:

PLOT DATE : 9-FEB 2023 7:38

PLOT BY : dotc4c

PLOT NAME :

1. Sign is Type II - Type F Reflective

2. Color:

Background - Orange Message - Black

- 3. Message Series B
- 4. 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.

C		
		G F F
		H B F G G
	Д	<b></b>
·	M4 - 8 A	

SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
2M	24	18	1 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
5	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0

COUNTY:

STANDARD SIGN M4-8A

WISCONSIN DEPT OF TRANSPORTATION

for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4 SHEET NO:

HWY:

PROJECT NO:

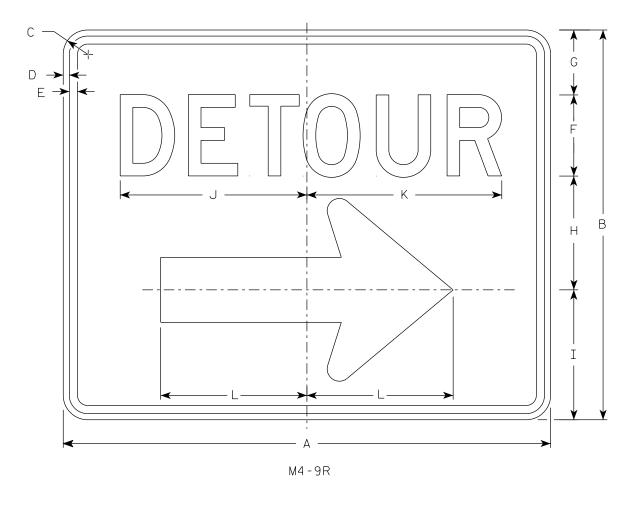
PLOT DATE: 9-FEB 2023 8:03

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\M48A.dgn

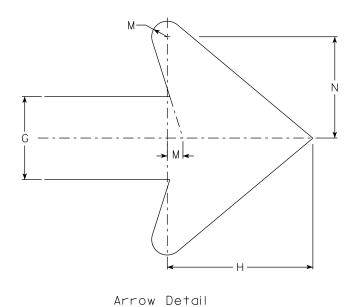


#### NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series D
- 4. 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. M4-9L is the same as M4-9R except the arrow is reversed.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1//8													5.00
4	48	36	1 1/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8 2	0 1/2	13 1/4	1 1/8	6 1/8													12.0
5	48	36	1 1/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8 2	0 1/2	13 1/4	1 1/8	6 1/8													12.0

COUNTY:

STANDARD SIGN M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

forState Traffic Engineer PLATE NO. M4-9R.6

DATE <u>2/9/2023</u>

SHEET NO:

Ε

FILE NAME: C:\CAEfiles\Projects\tr\_stdplate\M49R.dgn

HWY:

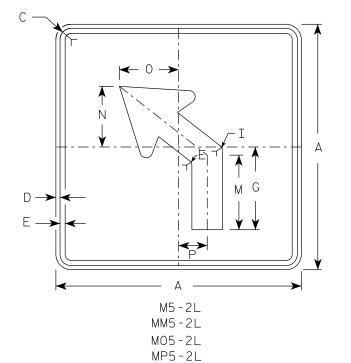
PROJECT NO:

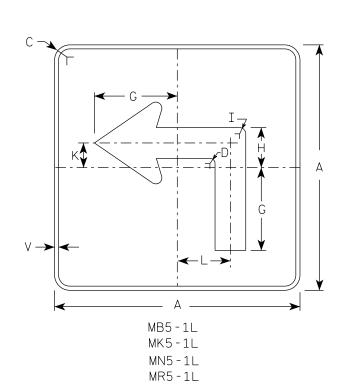
PLOT BY : dotc4c

PLOT NAME :

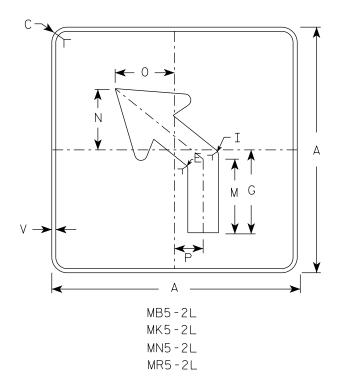
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

## M5-1L MM5-1L M05-1L MP5-1L





HWY:



#### NOTES

- 1. Signs are Type II Type H reflective except as shown

Background - See note 4 Message - See note 4

- 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.
- M5-1 and M5-2 Background White Message – Black

MB5-1 and MB5-2 Background - Blue

Message - White

MK5-1 and MK5-2 Background - Green

Message - White

MM5-1 and MM5-2 Background - White

Message - Green

MN5-1 and MN5-2 Background - Brown

Message - White

M05-1 and M05-2 Background - Orange - Type F Reflective

Message - Black

MP5-1 and MP5-2 Background - White

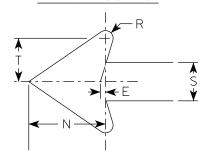
Message - Blue

MR5-1 and MR5-2 Background - Brown

Message - Yellow

- 5. M5-1R same as M5-1L except arrow points right.
- 6. M5-2R same as M5-2L except arrow tilts right.

#### ARROW DETAIL



1																										
SIZE	Α	В	С	D	E	F	G	Н	Ι	J	K	L	М	N	0	Р	Q	R	S	Т	V	W	Х	Y	Z	Area sq. ft.
1																										
25	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2	3	1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1/2					3.06
3	30		1 1/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1/2					6.25
4	30		1 1/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1/2					6.25
5	30		1 1/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1/2					6.25

COUNTY:

STANDARD SIGN M5 - 1 & M5 - 2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Forstate Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\_M51.dgn

PROJECT NO:

PLOT DATE: 13-FEB 2023 10:05

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

- 1. Signs are Type II Type H Reflective except as Shown
- 2. Color:

Background - See note 4 Message - See note 4

- 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. M6-1 and M6-2 Background White Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

M06-1 and M06-2 Background - Orange - Type F Reflective

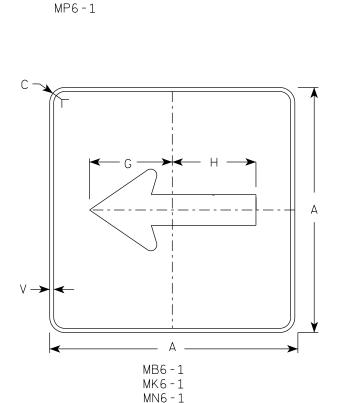
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



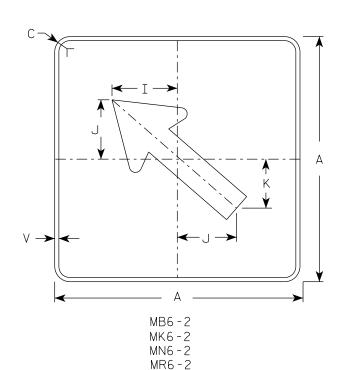
MR6-1

HWY:

M6 - 1

MM6 - 1

M06-1



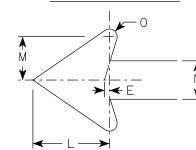
M6-2

MM6 - 2

MO6-2

MP6-2

ARROW DETAIL



SIZE	. Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
25	1 21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30	)	1 1/8	1/2	5/8		10 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30	)	1 1/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30	)	1 1/8	1/2	5/8		10 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16 SHEET NO:

Ε

PLOT BY : dotc4c PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

FILE NAME: C:\CAEfiles\Projects\tr\_stdplate\_M61.dgn

PROJECT NO:

PLOT DATE: 13-FEB 2023 1:30

#### NOTES

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message – Black

- 3. Message Series D
- 4. 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.

C —		
	G F H B F G G	
R	l1-2B	

SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																											
25	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0
2M	48	30	1 1/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 1/8																10.0
3	48	30	1 1/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 1/8																10.0
4	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0
5	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0

STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 2/5/24 PLATE NO. R11-2B.3

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R112B.dgn

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:20

PLOT BY : mscj9h

WISDOT/CADDS SHEET 42



- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. 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.
- 5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.

R11-3

\*\* See Note 5

HWY:

В	C	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
18	1 1/2	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
30	1 7/8	1/2	5/8	6	5	3 1/2	16 1/8	5	1 3/8	23 1/4	3	6 1/4	13	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 1/8				12.5
30	1 1/8	1/2	5/8	6	5	3 1/2	16 1/8	5	1 3/8	23 1/4	3	6 1/4	13 %	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
)	30	30 1 7/8	18 1 ½ ¾ 30 1 ⅓ ½	18 1 ½ 3/8 3/8 30 1 7/8 ½ 5/8	18 1 ½ 3/8 3/8 4 30 1 7/8 ½ 5/8 6	18 1 ½ 3/8 3/8 4 3 30 1 ½ ½ 5/8 6 5	18     1 ½     3/8     3/8     4     3     2       30     1 ½     5/8     6     5     3 ½	18     1 ½     3/8     3/8     4     3     2     11 ¼       30     1 ½     5/8     6     5     3 ½     16 ¾	18     1 ½     3/8     3/8     4     3     2     11 ¼     3       30     1 ¾     ½     5/8     6     5     3 ½     16 ¾     5	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓       30     1 ¾     ½     5/8     6     5     3 ½     16 ¾     5     1 ¾	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ½     15 3/8       30     1 ½     5/8     6     5     3 ½     16 ½     5     1 3/8     23 ¼	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ½     15 3/8     2       30     1 ¾     ½     5/8     6     5     3 ½     16 ¾     5     1 3/8     23 ¼     3	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓     15 ¾     15 ¾     2     3 ¾       30     1 ¾     ½     5/8     6     5     3 ½     16 ¾     5     1 ¾     23 ¼     3     6 ¼	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓     15 ¾     2     3 ¾     8 ¼       30     1 ¾     ½     5/8     6     5     3 ½     16 ¾     5     1 ¾     23 ¼     3     6 ¼     13 ¾	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓     15 ¾     2     3 ¾     8 ¼     5/8       30     1 ¾     ½     5/8     6     5     3 ½     16 ¾     5     1 ¾     23 ¼     3     6 ¼     13 ¾     1 ½	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓     15 ¾     2     3 ¾     8 ¼     5/8       30     1 ¾     ½     5/8     6     5     3 ½     16 ¾     5     1 ¾     23 ¼     3     6 ¼     13 ¾     1 ½	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓     15 ¾     2     3 ¾     8 ¼     5/8     1 ¾       30     1 ¾     ½     5/8     6     5     3 ½     16 ¾     5     1 ¾     23 ¼     3     6 ¼     13 ½     1 ½	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓8     15 ¾8     2     3 ¾4     8 ¼4     5/8     1 ¾8     13 ¼4       30     1 ¾8     ½     5/8     6     5     3 ½     16 ¾8     5     1 ¾8     23 ¼4     3     6 ¼4     13 ½8     1 ⅓8     1 ¾8     22 ⅓8	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓8     15 ¾8     2     3 ¾4     8 ¼4     5/8     1 ¾8     13 ¼4     8 ¾8       30     1 ¾8     ½     5/8     6     5     3 ½     16 ¾8     5     1 ¾8     23 ¼4     3     6 ¼4     13 ½8     1 ⅓8     1 ¾8     12 ½8     14	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓8     15 ¾8     2     3 ¾4     8 ¼4     5/8     1 ¾8     13 ¼4     8 ¾8     ½8       30     1 ¾8     ½     5/8     6     5     3 ½     16 ¾8     5     1 ¾8     23 ¼4     3     6 ¼4     13 ½8     1 ⅓8     11 ¾8     22 ⅓8     14     1 ½2	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓8     15 ¾8     2     3 ¾4     8 ¼4     5/8     1 ¾8     13 ¼4     8 ¾8     ¼8     10 ½       30     1 ¾8     ½     5/8     6     5     3 ½     16 ¾8     5     1 ¾8     23 ¼4     3     6 ¼4     13 ½8     1 ⅓8     1 ¾8     12 ½     1 ½     17 ½     17 ½	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓     15 ¾     2     3 ¾     8 ¼     5/8     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¼     1 ½     1 ¼     1 ¼     1 ¼     1 ½     1 ¼ <t< td=""><td>18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓     15 ¾     2     3 ¾     8 ¼     5/8     1 ¾     1 ¾     1 ¾     1 ¾     1 ½     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¼     1 ¼     1 ¼     1 ¼     1 ¼     1 ½     <t< td=""><td>18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓     15 ¾     2     3 ¾     8 ¼     5/8     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ½     <t< td=""><td>18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓     15 ¾     2     3 ¾     8 ¼     5/8     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ½     <t< td=""></t<></td></t<></td></t<></td></t<>	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓     15 ¾     2     3 ¾     8 ¼     5/8     1 ¾     1 ¾     1 ¾     1 ¾     1 ½     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¼     1 ¼     1 ¼     1 ¼     1 ¼     1 ½ <t< td=""><td>18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓     15 ¾     2     3 ¾     8 ¼     5/8     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ½     <t< td=""><td>18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓     15 ¾     2     3 ¾     8 ¼     5/8     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ½     <t< td=""></t<></td></t<></td></t<>	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓     15 ¾     2     3 ¾     8 ¼     5/8     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ½ <t< td=""><td>18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓     15 ¾     2     3 ¾     8 ¼     5/8     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ½     <t< td=""></t<></td></t<>	18     1 ½     3/8     3/8     4     3     2     11 ¼     3     1 ⅓     15 ¾     2     3 ¾     8 ¼     5/8     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ¾     1 ½ <t< td=""></t<>

COUNTY:

STANDARD SIGN R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther & Rawh

For State Traffic Engineer

SHEET NO:

DATE <u>2/5/24</u> PLATE NO. <u>R11-3.10</u>

Ε

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R113.DGN

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:30

PLOT BY: mscj9h

PLOT NAME :

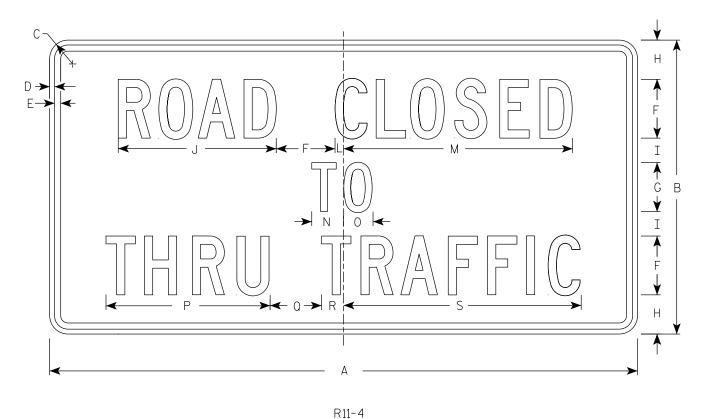
PLOT SCALE: \$\$.....plotscale.....\$\$
WISDOT/CADDS SHEET 42

#### NOTES

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. 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.



K11-2

SIZE	Α	В	С	D	E	F	G	Ι	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																											
25	60	30	1 1/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 1/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew K Kaush For State Traffic Engineer

SHEET NO:

DATE 2/5/24

PLATE NO. R11-4.4

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R114.dgn

HWY:

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:54

PLOT BY: mscj9h

PLOT NAME: PLOT SCALE: \$\$.

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

\_\_\_\_\_\_

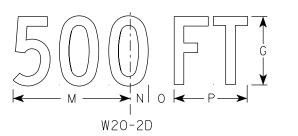
7

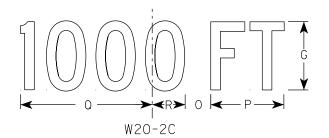


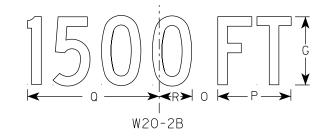
- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message – Black

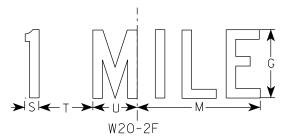
- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Line 1 is Series D. Line 2 is Series D for AHEAD and Series C for all other distances.











SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z	Area sq. ft.
	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 1/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
25	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0

COUNTY:

W20-2A

HWY:

STANDARD SIGN W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

DATE 1/10/2024 PLATE NO. W20-2.7

SHEET NO:

FILE NAME: C:\CAEfiles\Projects\tr\_stdplate\W202.DGN

PROJECT NO:

PLOT DATE: 10-JAN 2024 11:36

PLOT BY : dotc4c

PLOT NAME :

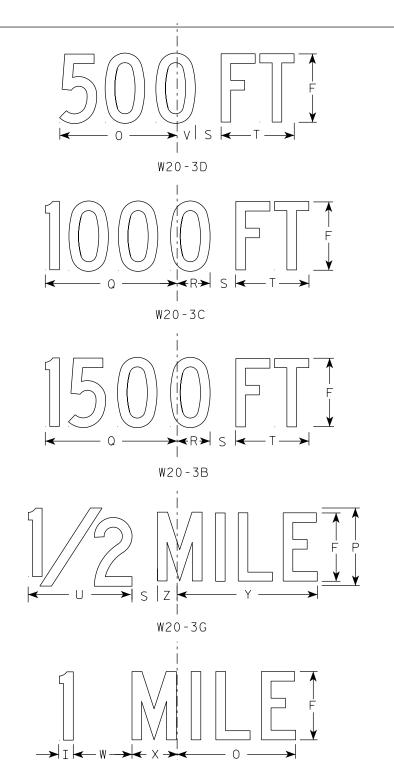
PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42



- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. 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.
- 5. Lines 1 and 2 are Series D.
  Line 3 is Series D for AHEAD and
  Series C for all other distances.



W20-3F

A N	
C	

HWY:

W20-3A

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	Z	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 1/8	12 1/2	11	9	6	10 1/8	2 1/2	1 1/8	5 %	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
25	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0

COUNTY:

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

 $\frac{MMMeV}{F_{or}}$  State Traffic Engineer

SHEET NO:

DATE 1/10/2024 PLATE NO. W20-3.8

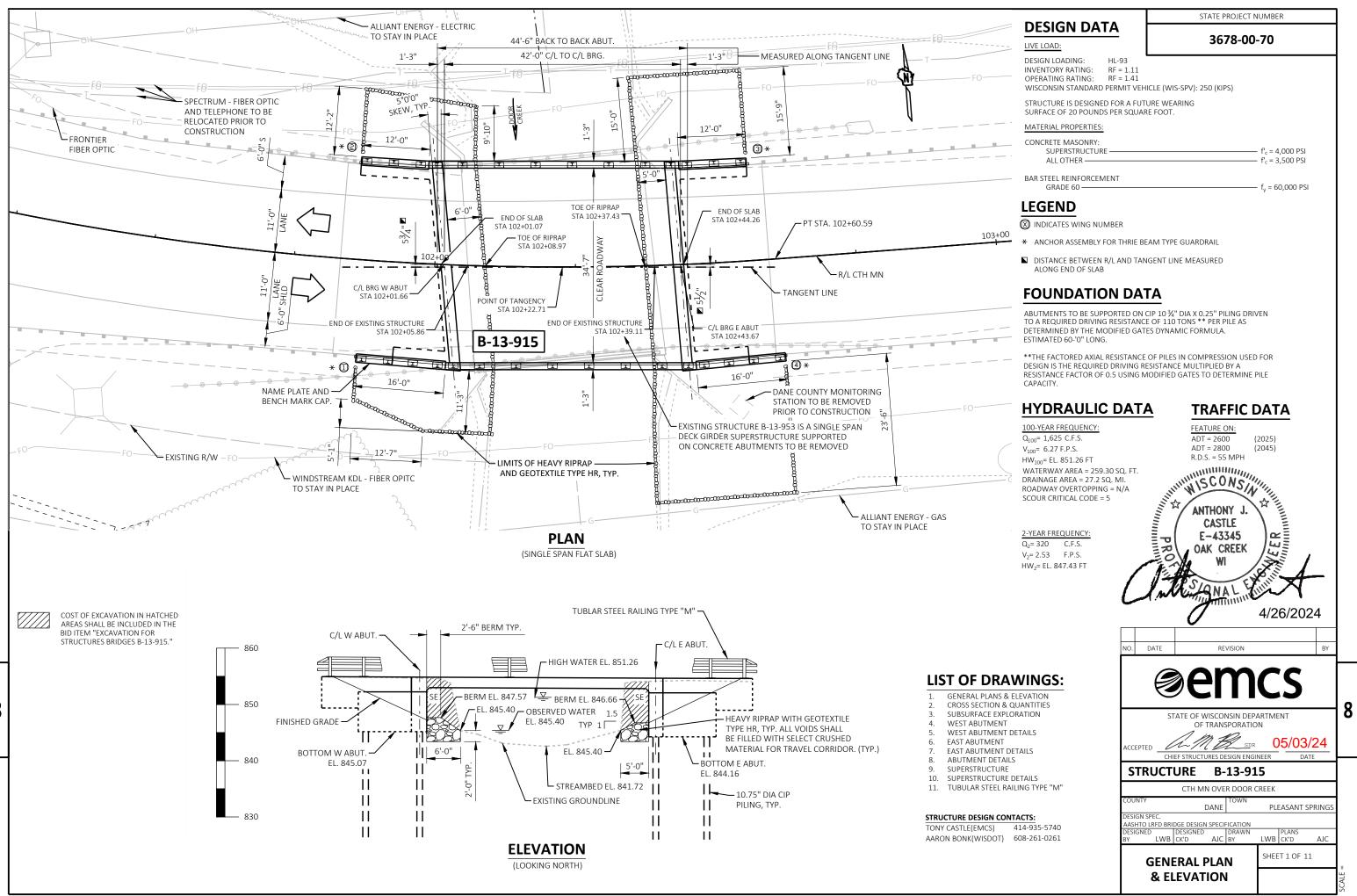
FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W203.DGN

PROJECT NO:

PLOT DATE: 10-JAN 2024 12:02 PLOT BY: dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42



#### GENERAL NOTES

DRAWINGS SHALL NOT BE SCAL

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

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

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-13-915" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

EXCAVATION OUTSIDE OF THE LIMITS SHOWN IN "TYPICAL SECTION THRU ABUTMENT" DETAIL ON SHEET REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF ABUTMENT AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

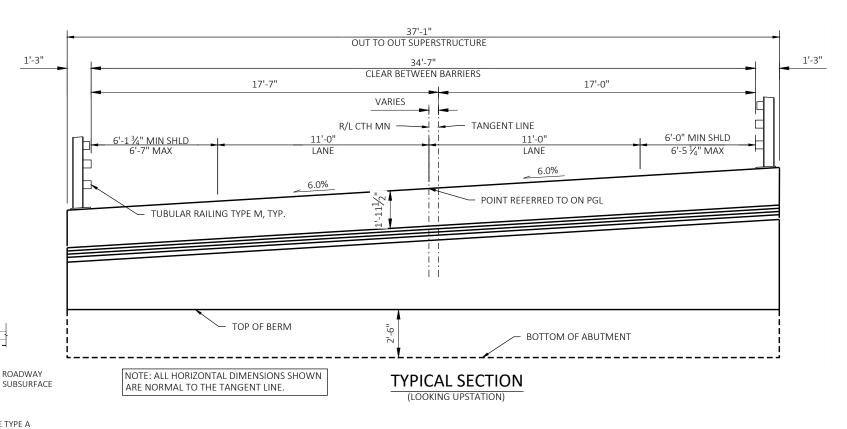
THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF SLAB INCLUDING THE SLAB EDGE AND 1'-0" UNDER THE SLAB, THE TOP AND EXTERIOR FACE OF WINGS AND FRONT FACE OF ABUTMENT TO 1'-0" PAST EDGE OF SLAB.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE "HR" TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS

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

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



#### TYPICAL SECTION THRU ABUTMENT

ABUTMENT BACKFILL DIAGRAM

= AVERAGE ABUTMENT FILL HEIGHT (FT)

**BRIDGE** 

SUPERSTRUCTURE

REO'D

- ABUTMENT

BACKFACE

TON BID ITEMS)

 $V_{CY} = V_{CF}(EF)/27$  $V_{TON} = V_{CY}(2.0)$ 

= (L)(3.0')(H) + (L)(0.5)(1.5H)(H)

= OUT TO OUT OF ABUTMENT BODY INCLUDING WINGS (FT)

= EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR

▲ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

ROADWAY

PAY LIMITS
OF BACKFILL

BACKFILL STRUCTURE TYPE A

"GEOTEXTILE TYPE DF SCHEDULE A" LIMITS. EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT FOR THE ENTIRE ABUTMENT BODY LENGTH.

- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.
- ★ UNDERDRAIN DISCHARGE ELEVATIONS SHOULD BE PLACED AT MINIMUM ELEVATION 845.40
- FILL UNDER ABUTMENT TO BE STRUCTURAL BACKFILL TYPE A.

  CONTRACTOR MAY REPLACE MATERIAL WITH BASE AGGREGATE OPEN
  GRADED AT NO ADDITIONAL COST TO DEPARTMENT.

#### **CURVE DATA** NOTE: PLACE FILL EVEN WITH TOP OF WING, 2 - TYPE 'M' RAIL FEATURE ON P I = 101+50 61 $\Lambda = 25^{\circ}44'21'' IT$ - TOP OF WING D = 11°30'00" HEAVY RIPRAP T = 113.83L = 223.82 R = 498.22S.E. = 6.0% R/L CTH MN P.C. = 100+36.78P.T. = 102 + 60.59

PROFILE GRADE LINE

# HEAVY RIPRAP HEAVY RIPRAP THEAVY WITH SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR GEOTEXTILE TYPE HR 6'-0" AT W. ABUT. 5'-0" AT E. ABUT.

#### TOTAL ESTIMATED QUANTITIES

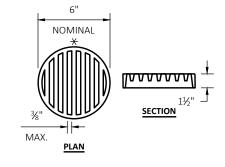
#### TYPICAL FILL SECTION AT WING TIPS

LEND OF ABUTMENT WING

GEOTEXTYLE \*

BID ITEM NO.	BID ITEMS	UNIT	W ABUT.	E ABUT.	SUPER	TOTAL
203.0250	REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS B-13-952	EACH	_	-	-	1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-13-915	EACH	_	-	_	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	230	260	_	490
502.0100	CONCRETE MASONRY BRIDGES	CY	41.8	46.6	123.4	212
502.3200	PROTECTIVE SURFACE TREATMENT	SY	25	27	208	260
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,530	2,690	-	5,220
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,750	1,900	23,280	26,930
513.4061	RAILING TUBULAR TYPE M	LF	_	-	146	146
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	11	11	-	22
550.0500	PILE POINTS	EACH	11	11		22
550.2104	PILING CIP CONCRETE 10 3/4 X 0.25-INCH	LF	660	660	-	1,320
606.0300	RIPRAP HEAVY	CY	55	80	_	135
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	82	82	-	164
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	60	60	-	120
645.0120	GEOTEXTILE TYPE HR	SY	105	155	-	260
SPV.0090.01	FLASHING STAINLESS STEEL	LF	-	-	45	45
SPV.0195.01	SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR	TON	26	38	-	64
	NON-BID ITEMS					

#### RIPRAP HEAVY DETAIL

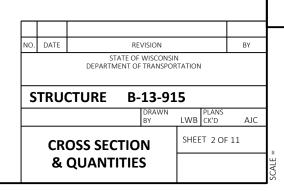


#### RODENT SHIELD DETAIL

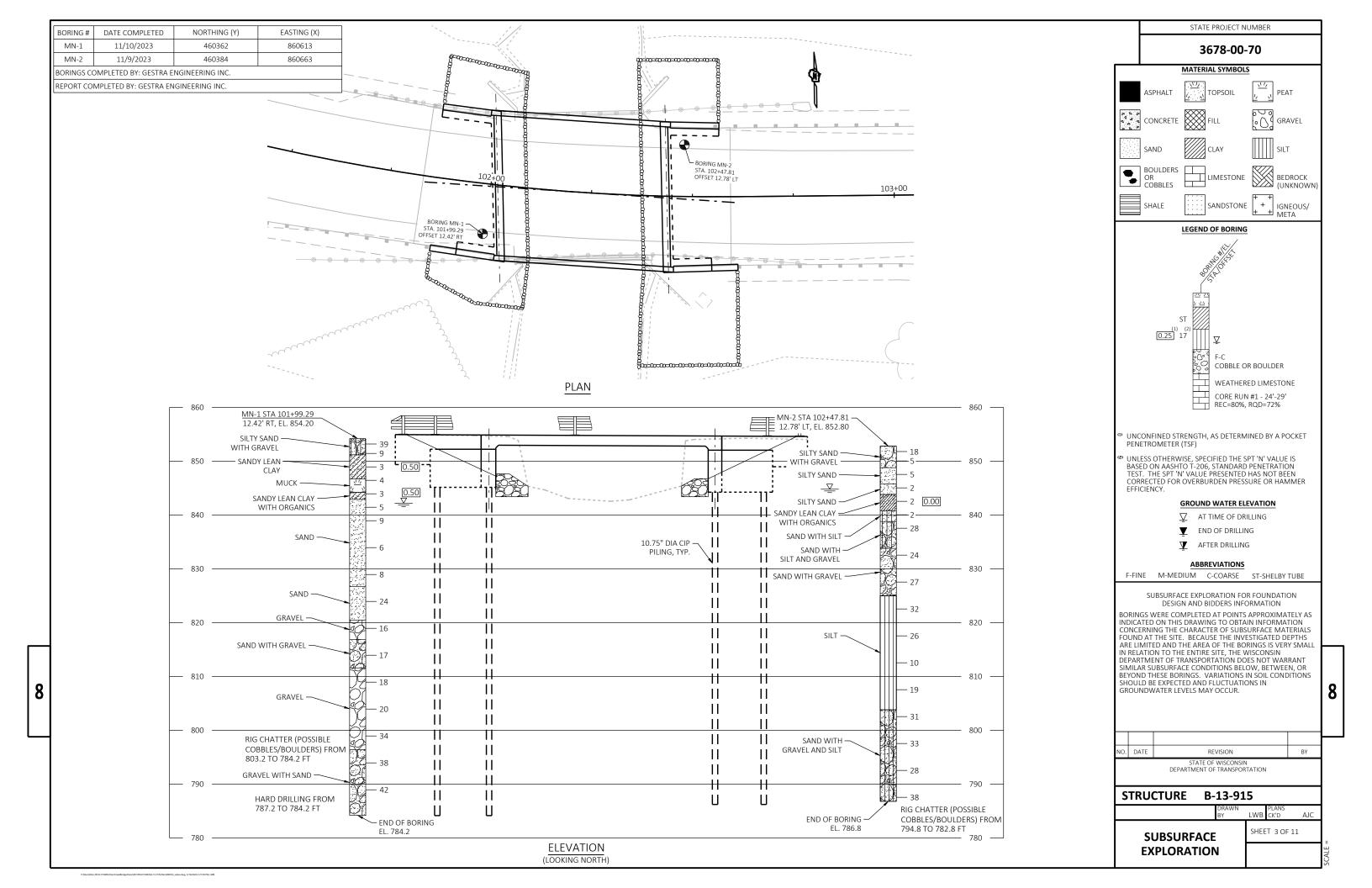
 $m{\times}$  DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

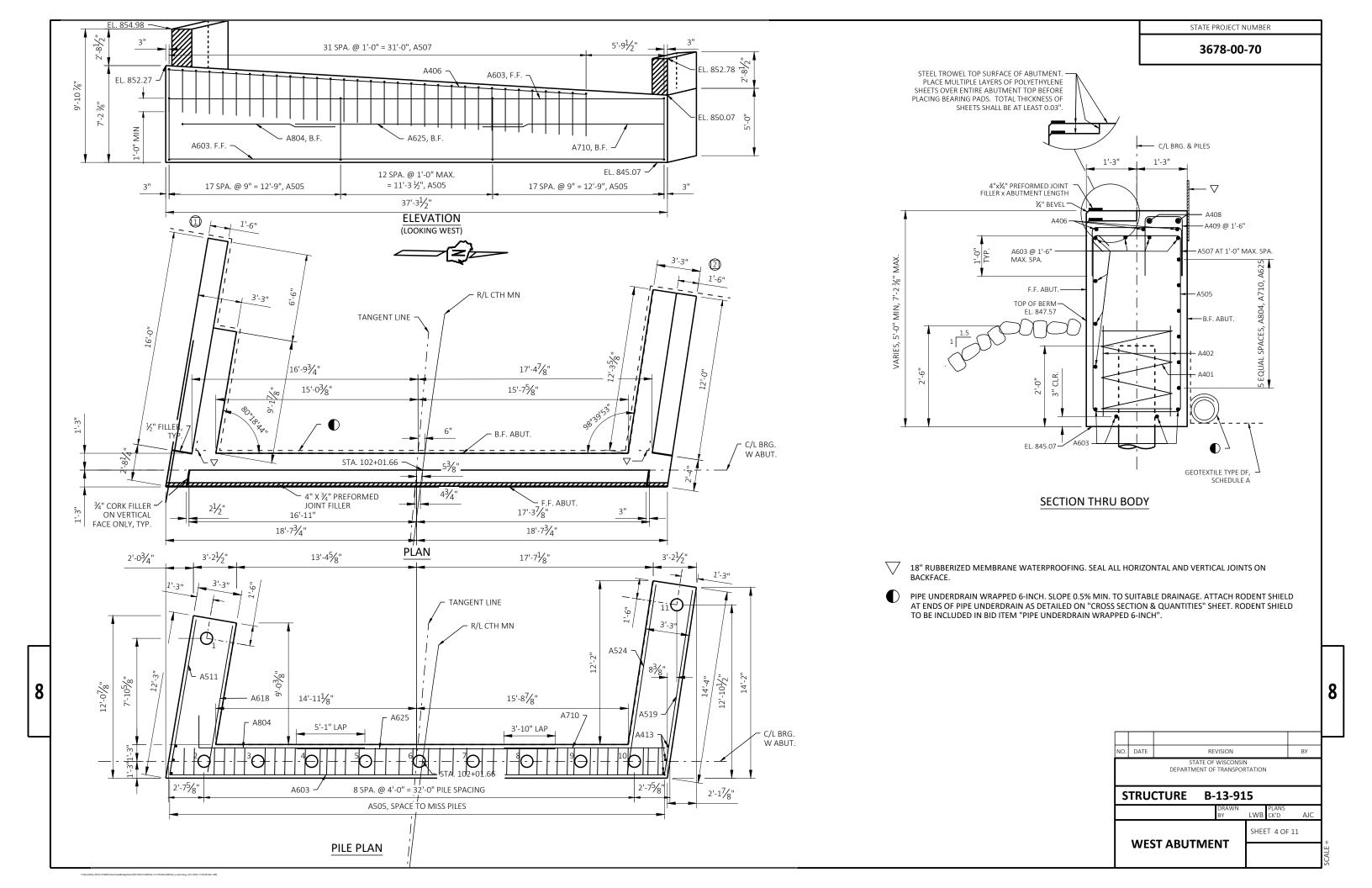
THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

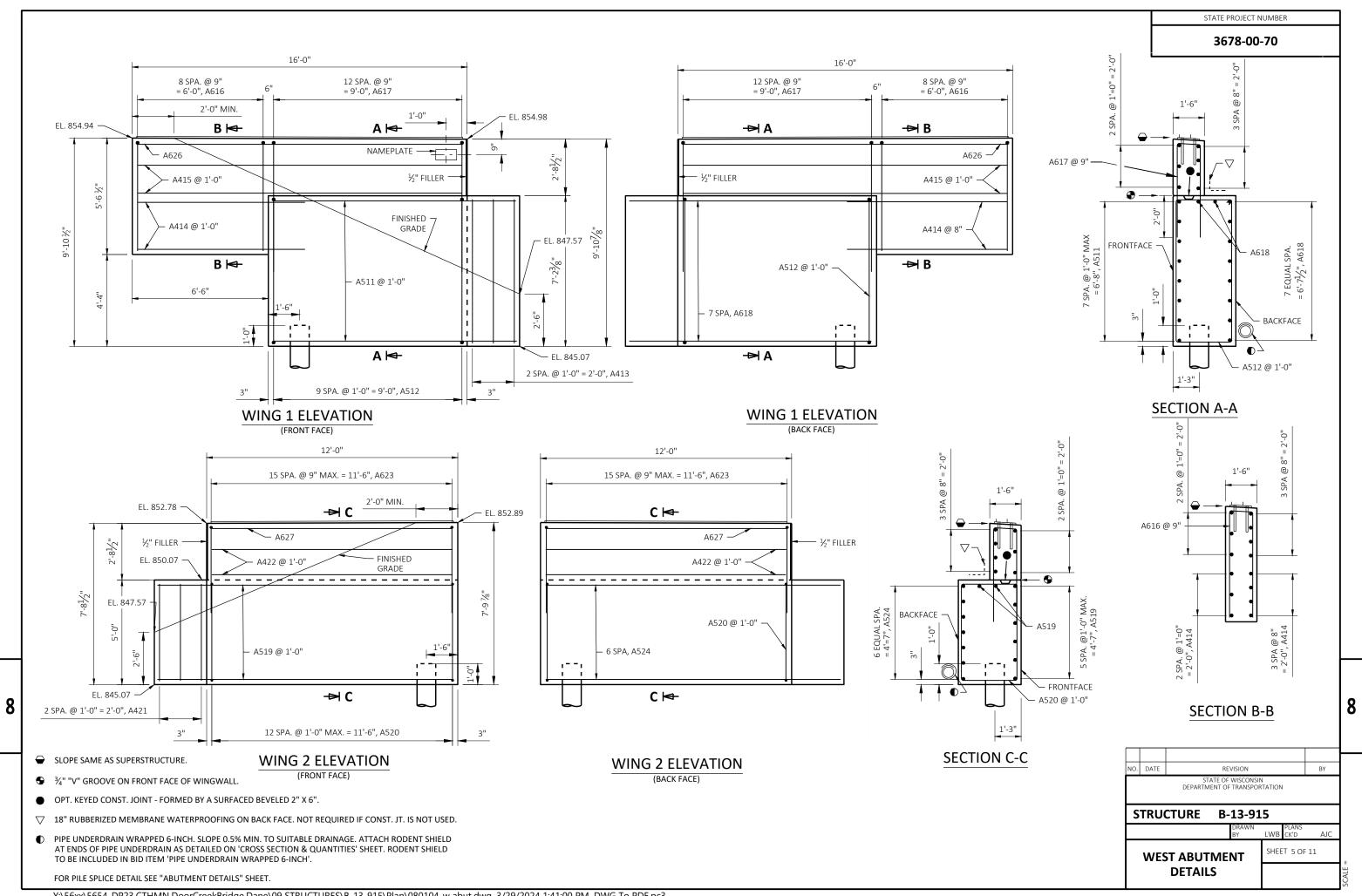
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

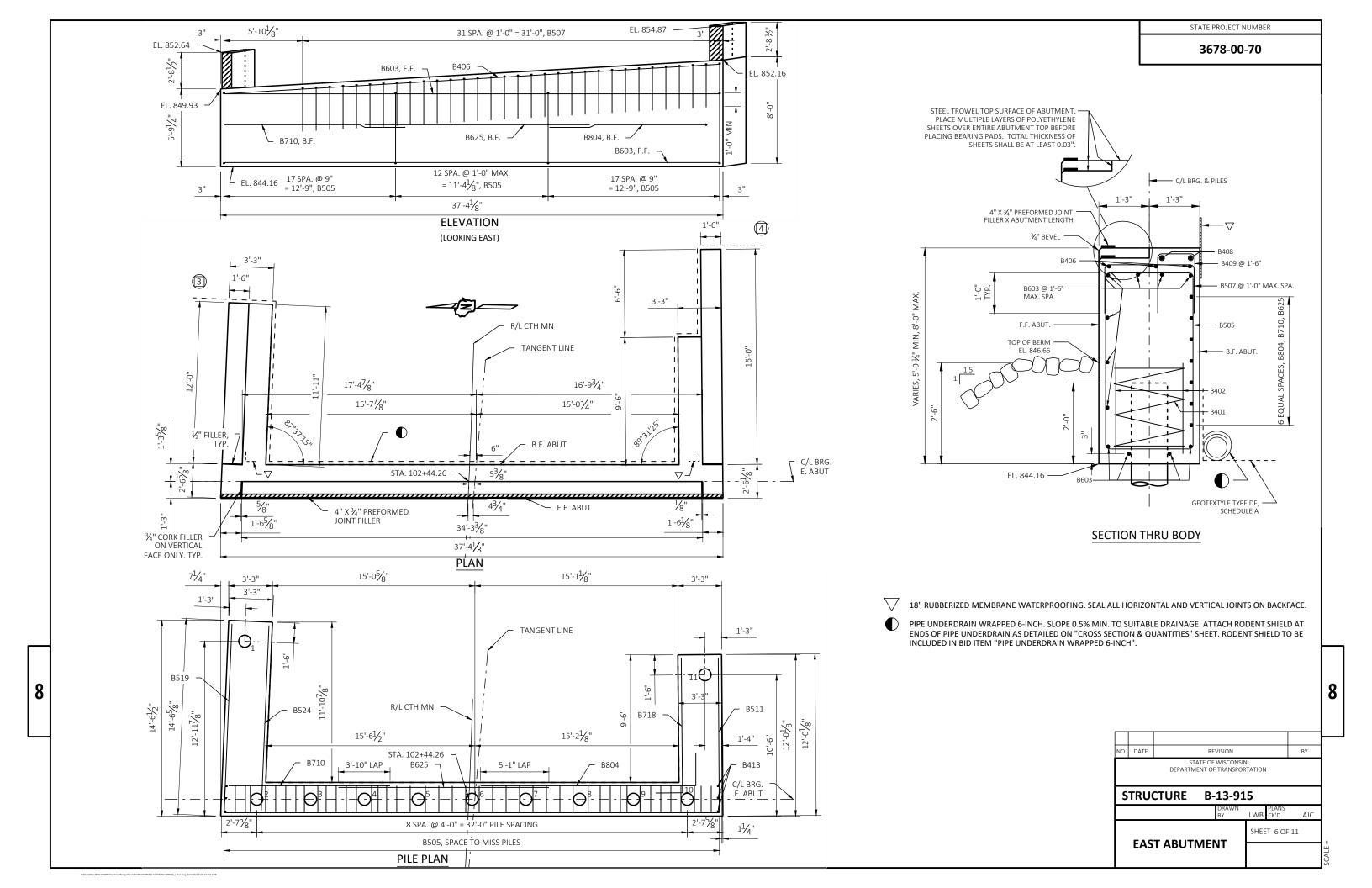


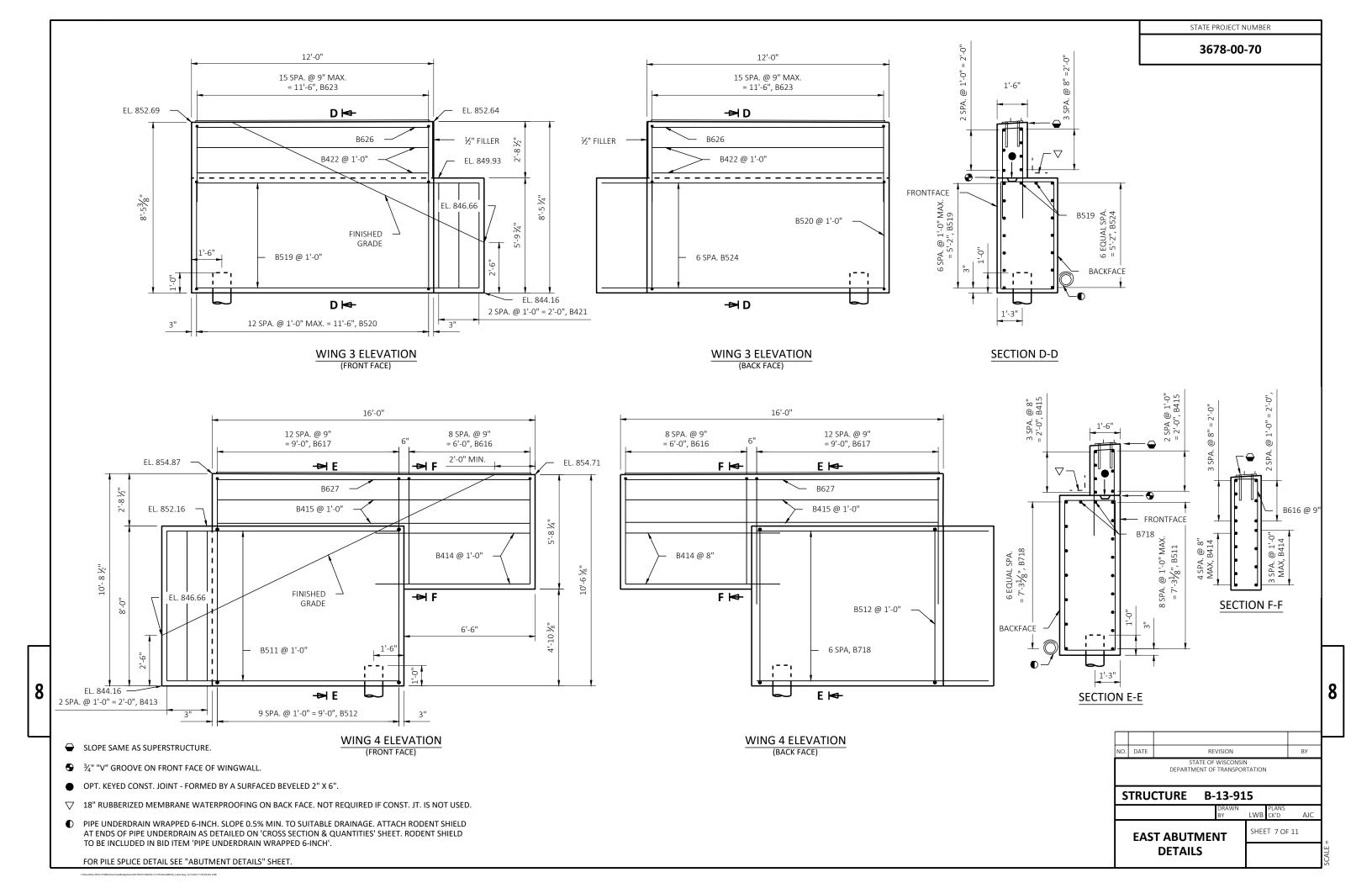
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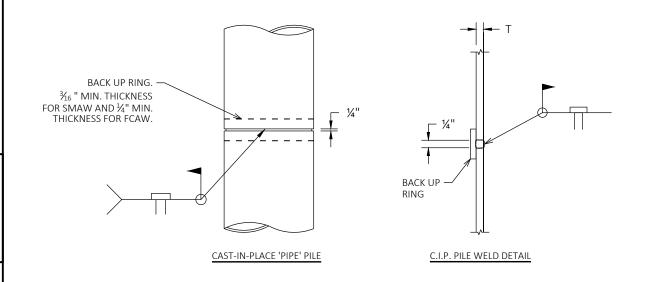
3678-00-70

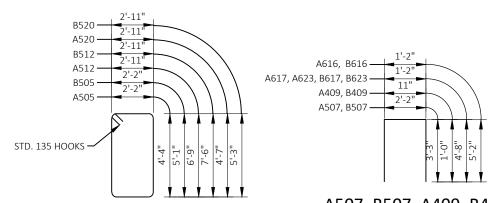
#### WEST ABUTMENT BILL OF BARS

BAR MARK	COAT	NO.	LENGTH	BENT	LOCATION
A401		11	28'-0"	Х	ABUT PILES - 1 PER PILE
A402		22	2'-3"		ABUT PILES - 2 PER PILE
A603		11	36'-8"		ABUT BODY - HORZ
A804		6	13'-2"	Х	ABUT BODY - HORZ
A505		47	13'-8"	Х	ABUT BODY STIRRUPS
A406		3	31'-3"		ABUT. BODY HORIZ. TOP
A507		32	8'-5"	Х	ABUT. SEAT VERT. TOP
A408		2	37'-0"		ABUT. BODY HORIZ. TOP
A409		25	2'-9"	Х	ABUT. SEAT VERT. TOP
A710		6	16'-0"		ABUT BODY - HORZ
A511	Х	8	11'-8"		WING 1 LOWER HORIZ FF
A512	Х	10	20'-1"	Х	WING 1 - STIRRUP
A413	Х	3	6'-9"		WING 1 LOWER VERT. FF
A414	Х	7	7'-11"		WING 1 UPPER HORIZ.
A415	Х	5	15'-8"		WING 1 UPPER HORIZ.
A616	Χ	9	11'-2"	Х	WING 1 UPPER VERT.
A617	Х	13	10'-2"	Х	WING 1 UPPER VERT.
A618	Х	10	11'-3"		WING 1 LOWER HORIZ BF
A519	Х	9	13'-11"		WING 2 LOWER HORIZ FF
A520	Χ	13	15'-8"	Χ	WING 2 - STIRRUP
A421	Χ	3	4'-7"		WING 2 LOWER VERT
A422	Х	5	11'-8"		WING 2 UPPER HORIZ
A623	Х	16	10'-2"	Х	WING 2 UPPER VERT
A524	Х	7	14'-2"		WING 2 LOWER HORIZ
A625		6	17'-9"		ABUT BODY - HORZ
A626	Х	2	15'-8"		WING 1 UPPER HORIZ.
A627	Х	2	11'-8"		WING 2 UPPER HORIZ.

#### EAST ABUTMENT BILL OF BARS

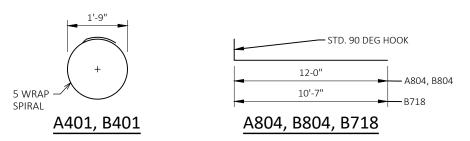
BAR MARK	COAT	NO.	LENGTH	BENT	LOCATION
B401		11	28'-0"	Х	ABUT PILES - 1 PER PILE
B402		22	2'-3"		ABUT PILES - 2 PER PILE
B406		11	36'-8"		ABUT BODY - HORZ
B804		7	13'-2"	Х	ABUT BODY - HORZ
B505		47	15'-2"	Х	ABUT BODY STIRRUPS
B406		3	31'-3"		ABUT. BODY HORIZ. TOP
B507		32	8'-5"	Х	ABUT. SEAT VERT. TOP
B408		2	37'-0"		ABUT. BODY HORIZ. TOP
B409		25	2'-9"	Х	ABUT. SEAT VERT. TOP
B710		7	16'-0"		ABUT BODY - HORZ
B511	Х	9	11'-8"		WING 4 LOWER HORIZ FF
B512	Х	10	21'-6"	Х	WING 4 - STIRRUP
B413	Х	3	7'-6"		WING 4 LOWER VERT. FF
B414	Х	7	7'-11"		WING 4 UPPER HORIZ.
B415	Х	5	15'-8"		WING 4 UPPER HORIZ.
B616	Х	9	11'-2"	Х	WING 4 UPPER VERT.
B617	Х	13	10'-2"	Х	WING 4 UPPER VERT.
B718	Х	9	11'-7"	Х	WING 4 LOWER HORIZ BF
B519	Х	9	13'-11"		WING 3 LOWER HORIZ FF
B520	Х	13	17'-1"	Х	WING 3 - STIRRUP
B421	Х	3	5'-3"		WING 3 LOWER VERT
B422	Х	5	11'-8"		WING 3 UPPER HORIZ
B623	Х	16	10'-2"	Х	WING 3 UPPER VERT
B524	Х	7	14'-2"		WING 3 LOWER HORIZ
B625		7	17'-9"		ABUT BODY - HORZ
B626	Х	2	11'-8"		WING 3 UPPER HORIZ.
B627	Х	2	11'-8"		WING 4 UPPER HORIZ.

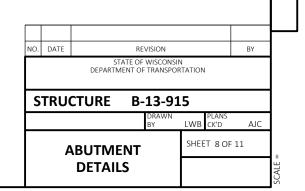




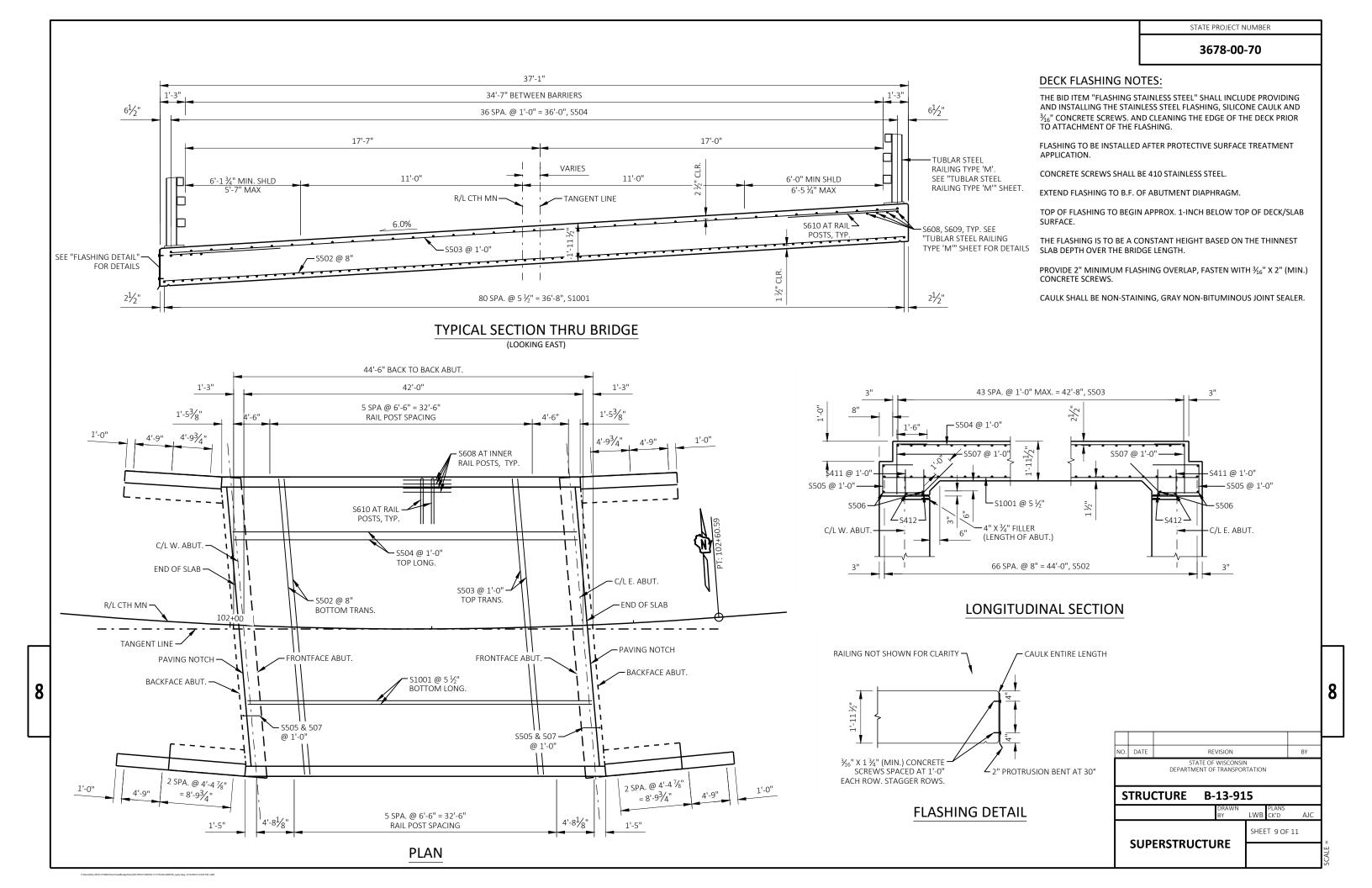
A505, B505, A512, B512, A520, B520 B616

A507, B507, A409, B409, A616, B616, A617, B617, A623, B623





CIP PILE DETAILS



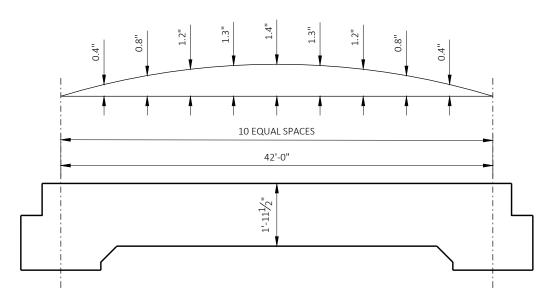
#### 3678-00-70

#### **BILL OF BARS**

BAR MARK	COAT	NO.	LENGTH	BENT	LOCATION
S1001	х	81	42'-10"		SLAB LONG. BOT.
S502	х	68	36'-9"		SLAB TRANS. BOT. 1
S503	х	44	36'-9"		SLAB TRANS. TOP
S504	х	37	42'-10"		SLAB LONG. TOP
S505	х	76	6'-9"	Х	END OF SLAB STIRRUP 1
S506	х	6	36'-9"		SLAB TRANS. BOT. 2
S507	х	76	3'-9"	Х	END OF SLAB STIRRUP 2
S608	х	48	6'-0"		RAIL POST LONG. INT.
S609	х	16	4'-7"	Х	RAIL POST LONG. EXT.
S610	х	32	12'-0"	Х	RAIL POST TRANS.
S411	Х	62	3'-3"	Х	ABUT DIA U-BAR
S412	Х	4	30'-4"		ABUT DIA TRANS.

#### **TOP OF SLAB ELEVATIONS**

	W Abut	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	E Abut.
N. EDGE OF DECK	852.78	852.76	852.74	852.72	852.70	852.68	852.67	852.66	852.65	852.65	852.64
TANGENT LINE	853.90	853.88	853.86	853.84	853.82	853.81	853.80	853.79	853.78	853.78	853.77
S.EDGE OF DECK	854.98	854.96	854.94	854.93	854.91	854.90	854.89	854.88	854.87	854.87	854.87

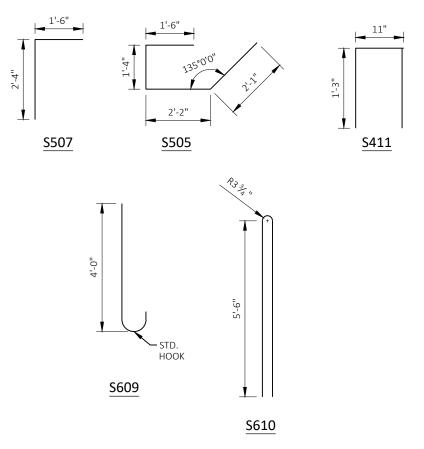


#### CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTION.

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

PARAPETS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN REMOVED.

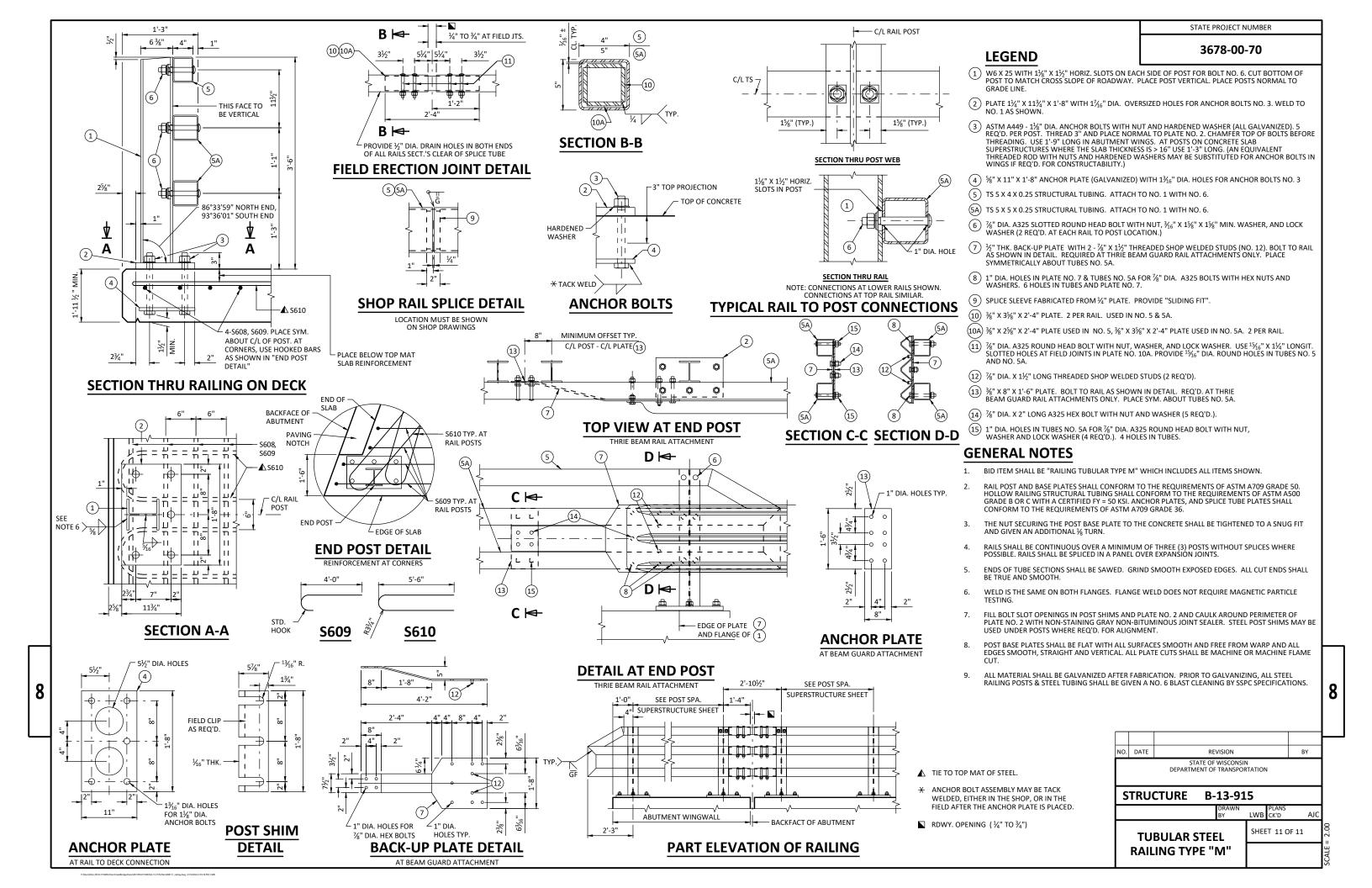


#### **SURVEY TOP OF SLAB ELEVATIONS**

LOCATION	C/L W. ABUT.	5/10 PTS.	C/L E. ABUT.
N. EDGE OF SLAB			
C/L OF STRUCTURE			
S. EDGE OF SLAB			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE C/L OF ABUTMENTS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND CROWN OR C/L. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS-BUILT" PLANS.

						ı	
						r	
NO.	DATE	RE	VISION		BY		
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION						
S	TRU	CTURE B-	13-91	.5			
			DRAWN BY	LWB CK'D	AJC		
	SUP	ERSTRUCTU	JRE	SHEET 10	OF 11		
		DETAILS				SCALF =	



			AREA	A (SF)	INCREMENT (UNADJ	AL VOL (CY) USTED)		CUMULATIVE \	/OL (CY)
STATION	REAL STATION	DISTANCE	CUT	FILL	CUT	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINAT
					NOTE 1	NOTE 3	NOTE 1		NOTE 8
100+42.5	10042.50	0.00	28.87	0.00	0	0	0	0	0
100+52.4	10052.40	9.90	27.61	0.00	10	0	10	0	10
100+92.499	10092.50	40.10	28.77	4.29	42	3	52	4	48
101+00	10100.00	7.50	26.94	5.66	8	1	60	5	55
01+18.481	10118.48	18.48	50.69	5.06	27	4	87	10	77
101+27.574	10127.57	9.09	29.74	4.25	14	2	101	13	89
101+44.355	10144.36	16.78	30.48	2.73	19	2	120	15	105
101+48.685	10148.69	4.33	31.06	2.78	5	0	125	15	110
101+51.572	10151.57	2.89	66.67	2.97	5	0	130	15	115
101+69	10169.00	17.43	63.47	2.84	42	2	172	18	155
101+83.05	10183.05	14.05	52.43	5.25	30	2	202	20	182
101+85.663	10185.66	2.61	50.34	6.32	5	1	207	21	186
101+87.17	10187.17	1.51	48.11	14.02	3	1	210	23	188
01+98.755	10198.75	11.58	88.65	0.92	29	3	239	26	213
				Stru	cture B-13-09				
			AREA	A (SF)		AL VOL (CY)		CUMULATIVE \	/OL (CY)
					(UNAD)	USTED)			
STATION	REAL STATION	DISTANCE			CUT	FILL	CUT	EXPANDED FILL	MASS ORDINA
STATION	REAL STATION	DISTANCE	CUT	FILL	·	,	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINA
STATION	REAL STATION	DISTANCE	CUT	FILL	·	,			MASS ORDINA
	REAL STATION	DISTANCE 0.00	CUT 97.02	FILL 2.37	CUT	FILL	1.00		
STATION .02+45.649 102+56.55					CUT NOTE 1	FILL NOTE 3	1.00 NOTE 1	1.25	NOTE 8
102+45.649	10245.65	0.00	97.02	2.37	CUT  NOTE 1	FILL NOTE 3	1.00 NOTE 1 239	1.25	NOTE 8 213
.02+45.649 102+56.55 .02+60.594	10245.65 10256.55 10260.59	0.00 10.90 4.04	97.02 51.06 49.82	2.37 28.66 42.63	CUT  NOTE 1  0 30 8	FILL  NOTE 3  0 6 5	1.00 NOTE 1 239 269 277	1.25 26 34 40	NOTE 8  213 235 237
.02+45.649 102+56.55 .02+60.594 .02+61.147	10245.65 10256.55 10260.59 10261.15	0.00 10.90 4.04 0.55	97.02 51.06 49.82 49.64	2.37 28.66 42.63 44.03	CUT  NOTE 1  0 30 8 1	FILL  NOTE 3  0 6 5 1	1.00 NOTE 1 239 269 277 278	26 34 40 41	NOTE 8  213 235 237 237
.02+45.649 102+56.55 .02+60.594 .02+61.147 .02+95.945	10245.65 10256.55 10260.59 10261.15 10295.95	0.00 10.90 4.04 0.55 34.80	97.02 51.06 49.82 49.64 50.40	2.37 28.66 42.63 44.03 22.42	CUT  NOTE 1  0 30 8 1 64	FILL  NOTE 3  0 6 5 1 43	1.00 NOTE 1 239 269 277 278 342	1.25 26 34 40 41 95	NOTE 8  213 235 237 237 247
02+45.649 102+56.55 02+60.594 02+61.147 02+95.945 03+01.102	10245.65 10256.55 10260.59 10261.15 10295.95 10301.10	0.00 10.90 4.04 0.55 34.80 5.16	97.02 51.06 49.82 49.64 50.40 16.51	2.37 28.66 42.63 44.03 22.42 21.30	CUT  NOTE 1  0 30 8 1 64 6	FILL  NOTE 3  0 6 5 1 43	1.00 NOTE 1 239 269 277 278 342 348	1.25 26 34 40 41 95 100	NOTE 8  213 235 237 237 247 248
.02+45.649 102+56.55 .02+60.594 .02+61.147 .02+95.945 .03+01.102 .03+26.087	10245.65 10256.55 10260.59 10261.15 10295.95 10301.10 10326.09	0.00 10.90 4.04 0.55 34.80 5.16 24.99	97.02 51.06 49.82 49.64 50.40 16.51 14.02	2.37 28.66 42.63 44.03 22.42 21.30 37.47	CUT  NOTE 1  0 30 8 1 64 6 14	FILL  NOTE 3  0 6 5 1 43 4 27	1.00 NOTE 1 239 269 277 278 342 348 362	1.25 26 34 40 41 95 100 134	213 235 237 237 247 248 228
	10245.65 10256.55 10260.59 10261.15 10295.95 10301.10 10326.09 10330.62	0.00 10.90 4.04 0.55 34.80 5.16 24.99 4.53	97.02 51.06 49.82 49.64 50.40 16.51 14.02 14.57	2.37 28.66 42.63 44.03 22.42 21.30 37.47 36.80	CUT  NOTE 1  0 30 8 1 64 6 14 2	FILL  NOTE 3  0 6 5 1 43 4 27 6	1.00 NOTE 1 239 269 277 278 342 348 362 364	1.25  26 34 40 41 95 100 134 141	213 235 237 237 247 248 228 223
02+45.649 102+56.55 02+60.594 02+61.147 02+95.945 03+01.102 03+26.087 103+30.622 103+47	10245.65 10256.55 10260.59 10261.15 10295.95 10301.10 10326.09 10330.62 10347.00	0.00 10.90 4.04 0.55 34.80 5.16 24.99 4.53 16.38	97.02 51.06 49.82 49.64 50.40 16.51 14.02 14.57 15.51	2.37 28.66 42.63 44.03 22.42 21.30 37.47 36.80 32.93	CUT  NOTE 1  0 30 8 1 64 6 14 2 9	FILL  NOTE 3  0 6 5 1 43 4 27 6 21	1.00 NOTE 1 239 269 277 278 342 348 362 364 373	1.25 26 34 40 41 95 100 134 141 168	213 235 237 237 247 248 228 223 206
1.02+45.649 102+56.55 1.02+60.594 1.02+61.147 1.02+95.945 1.03+01.102 1.03+26.087 1.03+30.622 1.03+47 1.03+50.794	10245.65 10256.55 10260.59 10261.15 10295.95 10301.10 10326.09 10330.62 10347.00 10350.79	0.00 10.90 4.04 0.55 34.80 5.16 24.99 4.53 16.38 3.79	97.02 51.06 49.82 49.64 50.40 16.51 14.02 14.57 15.51 15.95	2.37 28.66 42.63 44.03 22.42 21.30 37.47 36.80 32.93 31.53	CUT  NOTE 1  0 30 8 1 64 6 14 2 9 2	FILL  NOTE 3  0 6 5 1 43 4 27 6 21 5	1.00 NOTE 1 239 269 277 278 342 348 362 364 373 375	1.25 26 34 40 41 95 100 134 141 168 174	213 235 237 237 247 248 228 223 206 201
.02+45.649 102+56.55 .02+60.594 .02+61.147 .02+95.945 .03+01.102 .03+26.087 .03+30.622 .103+47 .03+50.794	10245.65 10256.55 10260.59 10261.15 10295.95 10301.10 10326.09 10330.62 10347.00 10350.79	0.00 10.90 4.04 0.55 34.80 5.16 24.99 4.53 16.38 3.79 8.67	97.02 51.06 49.82 49.64 50.40 16.51 14.02 14.57 15.51 15.95	2.37 28.66 42.63 44.03 22.42 21.30 37.47 36.80 32.93 31.53 26.13	CUT  NOTE 1  0 30 8 1 64 6 14 2 9 2 5	FILL  NOTE 3  0 6 5 1 43 4 27 6 21 5	1.00 NOTE 1 239 269 277 278 342 348 362 364 373 375 380	1.25  26 34 40 41 95 100 134 141 168 174 185	213 235 237 237 247 248 228 223 206 201
.02+45.649 102+56.55 .02+60.594 .02+61.147 .02+95.945 .03+01.102 .03+26.087 .03+30.622 .103+47 .03+50.794 .03+50.794	10245.65 10256.55 10260.59 10261.15 10295.95 10301.10 10326.09 10330.62 10347.00 10350.79	0.00 10.90 4.04 0.55 34.80 5.16 24.99 4.53 16.38 3.79	97.02 51.06 49.82 49.64 50.40 16.51 14.02 14.57 15.51 15.95	2.37 28.66 42.63 44.03 22.42 21.30 37.47 36.80 32.93 31.53	CUT  NOTE 1  0 30 8 1 64 6 14 2 9 2	FILL  NOTE 3  0 6 5 1 43 4 27 6 21 5 9 19	1.00 NOTE 1 239 269 277 278 342 348 362 364 373 375	1.25 26 34 40 41 95 100 134 141 168 174	213 235 237 237 247 248 228 223 206 201
.02+45.649 102+56.55 .02+60.594 .02+61.147 .02+95.945 .03+01.102 .03+26.087 .03+30.622 .103+47 .03+50.794	10245.65 10256.55 10260.59 10261.15 10295.95 10301.10 10326.09 10330.62 10347.00 10350.79	0.00 10.90 4.04 0.55 34.80 5.16 24.99 4.53 16.38 3.79 8.67	97.02 51.06 49.82 49.64 50.40 16.51 14.02 14.57 15.51 15.95	2.37 28.66 42.63 44.03 22.42 21.30 37.47 36.80 32.93 31.53 26.13	CUT  NOTE 1  0 30 8 1 64 6 14 2 9 2 5	FILL  NOTE 3  0 6 5 1 43 4 27 6 21 5	1.00 NOTE 1 239 269 277 278 342 348 362 364 373 375 380	1.25  26 34 40 41 95 100 134 141 168 174 185	213 235 237 237 247 248 228 223 206 201
.02+45.649 102+56.55 .02+60.594 .02+61.147 .02+95.945 .03+01.102 .03+26.087 .03+30.622 .103+47 .03+50.794 .03+59.463 .03+84.425	10245.65 10256.55 10260.59 10261.15 10295.95 10301.10 10326.09 10330.62 10347.00 10350.79 10359.46 10384.43	0.00 10.90 4.04 0.55 34.80 5.16 24.99 4.53 16.38 3.79 8.67 24.96	97.02 51.06 49.82 49.64 50.40 16.51 14.02 14.57 15.51 15.95 17.03 21.24	2.37 28.66 42.63 44.03 22.42 21.30 37.47 36.80 32.93 31.53 26.13 14.18	CUT  NOTE 1  0 30 8 1 64 6 14 2 9 2 5 18	FILL  NOTE 3  0 6 5 1 43 4 27 6 21 5 9 19	1.00 NOTE 1 239 269 277 278 342 348 362 364 373 375 380 398	1.25  26 34 40 41 95 100 134 141 168 174 185 209	213 235 237 237 247 248 228 223 206 201 195 189
.02+45.649 102+56.55 .02+60.594 .02+61.147 .02+95.945 .03+01.102 .03+26.087 .03+30.622 .03+47 .03+50.794 .03+50.794 .03+59.463 .03+84.425 .103+98 .103+98	10245.65 10256.55 10260.59 10261.15 10295.95 10301.10 10326.09 10330.62 10347.00 10350.79 10359.46 10384.43 10398.00	0.00 10.90 4.04 0.55 34.80 5.16 24.99 4.53 16.38 3.79 8.67 24.96 13.57	97.02 51.06 49.82 49.64 50.40 16.51 14.02 14.57 15.51 15.95 17.03 21.24 23.98	2.37 28.66 42.63 44.03 22.42 21.30 37.47 36.80 32.93 31.53 26.13 14.18 12.42	CUT  NOTE 1  0 30 8 1 64 6 14 2 9 2 5 18 11	FILL  NOTE 3  0 6 5 1 43 4 27 6 21 5 9 19 7	1.00 NOTE 1 239 269 277 278 342 348 362 364 373 375 380 398 409	1.25  26 34 40 41 95 100 134 141 168 174 185 209 218	213 235 237 237 247 248 228 223 206 201 195 189 192
.02+45.649 102+56.55 .02+60.594 .02+61.147 .02+95.945 .03+01.102 .03+26.087 .03+30.622 103+47 .03+50.794 .03+59.463 .03+84.425 103+98 104+00 .04+09.399	10245.65 10256.55 10260.59 10261.15 10295.95 10301.10 10326.09 10330.62 10347.00 10350.79 10359.46 10384.43 10398.00 10400.00 10409.40	0.00 10.90 4.04 0.55 34.80 5.16 24.99 4.53 16.38 3.79 8.67 24.96 13.57 2.00 9.40	97.02 51.06 49.82 49.64 50.40 16.51 14.02 14.57 15.51 15.95 17.03 21.24 23.98 24.42 26.64	2.37 28.66 42.63 44.03 22.42 21.30 37.47 36.80 32.93 31.53 26.13 14.18 12.42 11.48 7.67	CUT  NOTE 1  0 30 8 1 64 6 14 2 9 2 5 18 11 2 9	FILL  NOTE 3  0 6 5 1 43 4 27 6 21 5 9 19 7 1 3	1.00 NOTE 1 239 269 277 278 342 348 362 364 373 375 380 398 409 411 420	1.25  26 34 40 41 95 100 134 141 168 174 185 209 218 219 223	213 235 237 237 247 248 228 223 206 201 195 189 192 192 198
.02+45.649 102+56.55 .02+60.594 .02+61.147 .02+95.945 .03+01.102 .03+26.087 .03+30.622 .03+47 .03+50.794 .03+50.794 .03+59.463 .03+84.425 .103+98 .103+98	10245.65 10256.55 10260.59 10261.15 10295.95 10301.10 10326.09 10330.62 10347.00 10350.79 10359.46 10384.43 10398.00 10400.00	0.00 10.90 4.04 0.55 34.80 5.16 24.99 4.53 16.38 3.79 8.67 24.96 13.57 2.00	97.02 51.06 49.82 49.64 50.40 16.51 14.02 14.57 15.51 15.95 17.03 21.24 23.98 24.42	2.37 28.66 42.63 44.03 22.42 21.30 37.47 36.80 32.93 31.53 26.13 14.18 12.42 11.48	CUT  NOTE 1  0 30 8 1 64 6 14 2 9 2 5 18 11 2	FILL  NOTE 3  0 6 5 1 43 4 27 6 21 5 9 19 7 1	1.00 NOTE 1 239 269 277 278 342 348 362 364 373 375 380 398 409 411	1.25  26 34 40 41 95 100 134 141 168 174 185 209 218 219	213 235 237 237 247 248 228 223 206 201 195 189 192

Notes:	
1- CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	(CUT - SALVAGED PAVT) - (FILL * FILL FACTOR)

Ε

9

HWY: CTH MN PROJECT NO: 3678-00-70

COUNTY: DANE

EARTHWORK DATA

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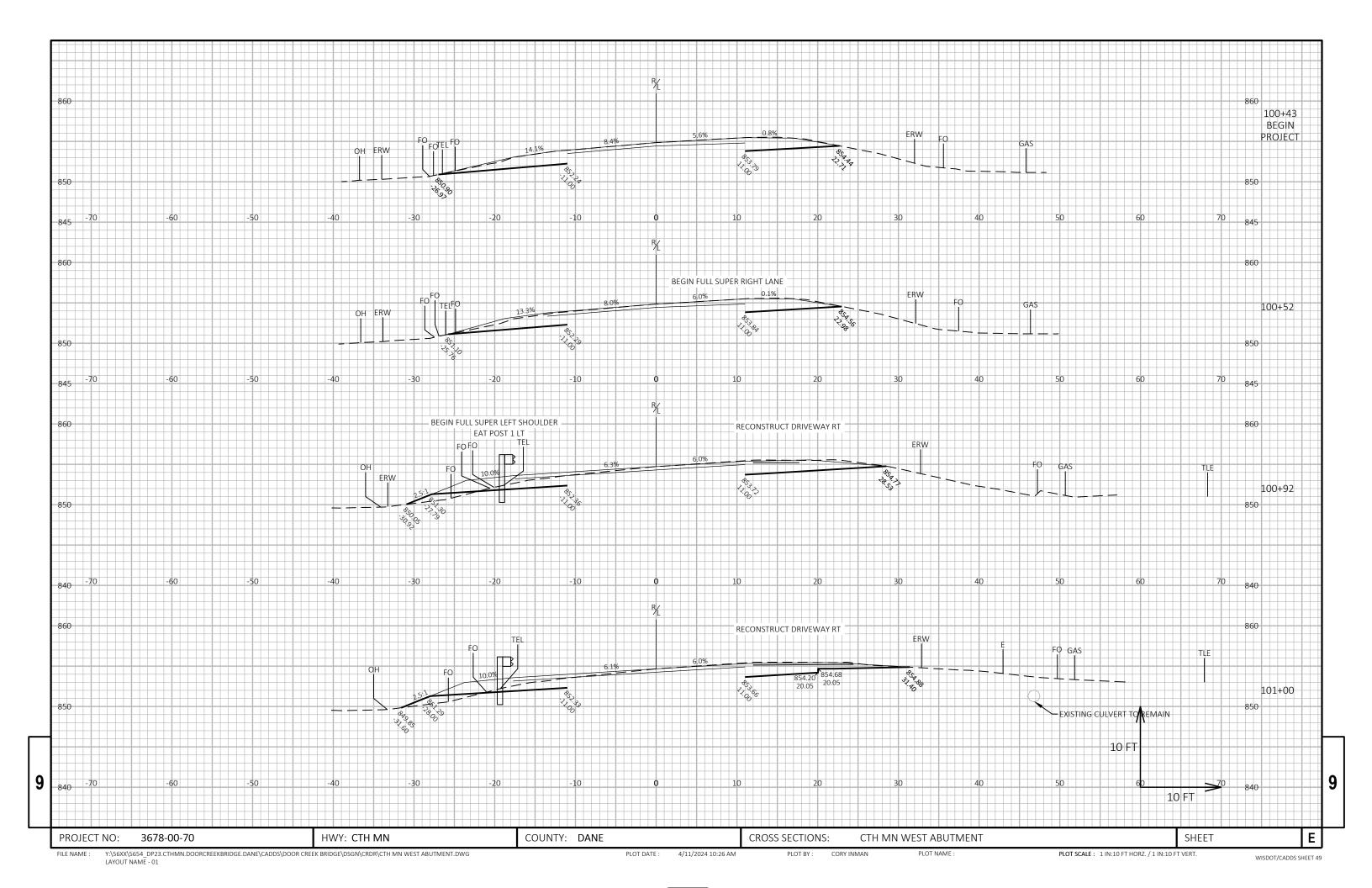
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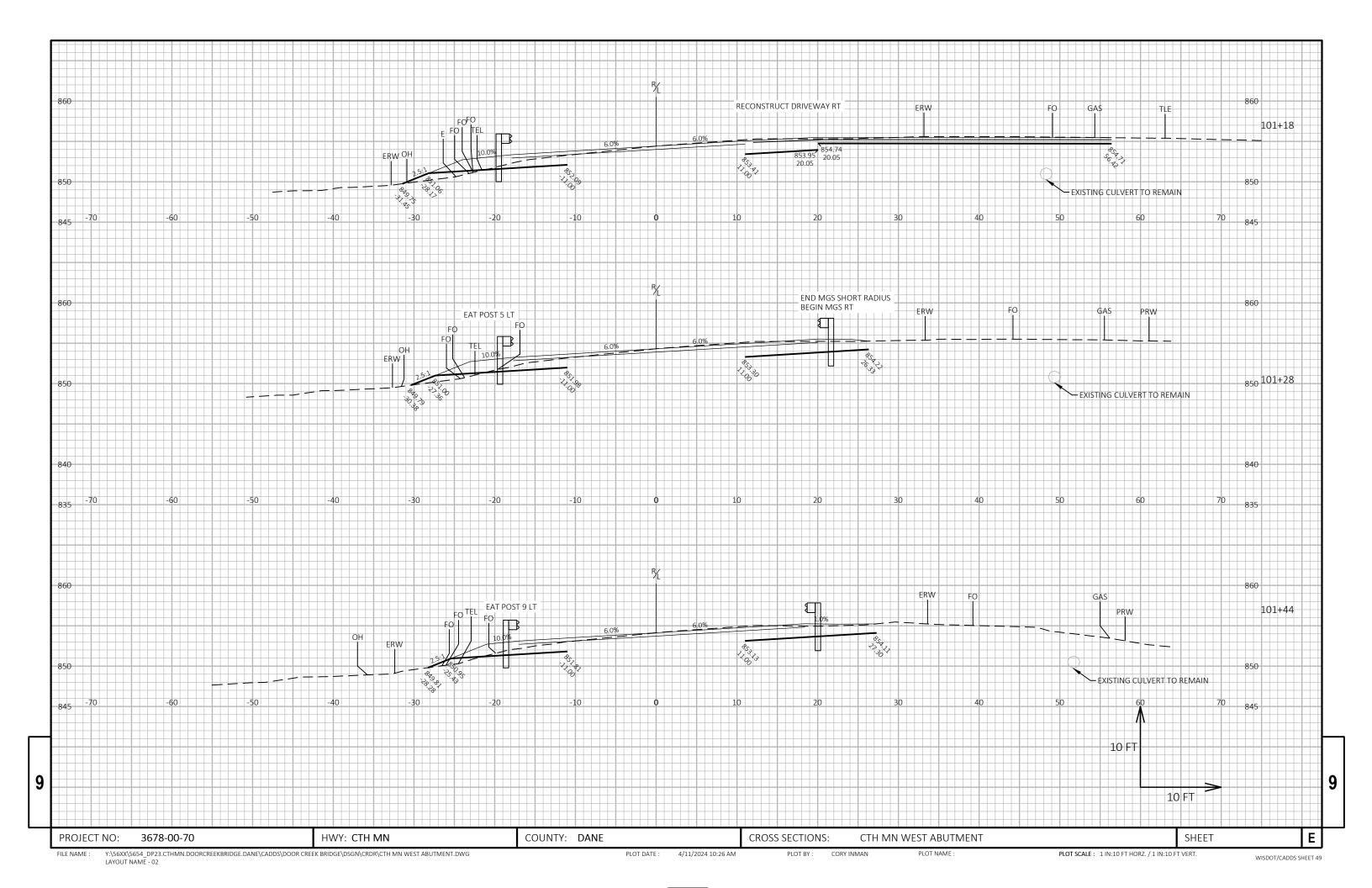
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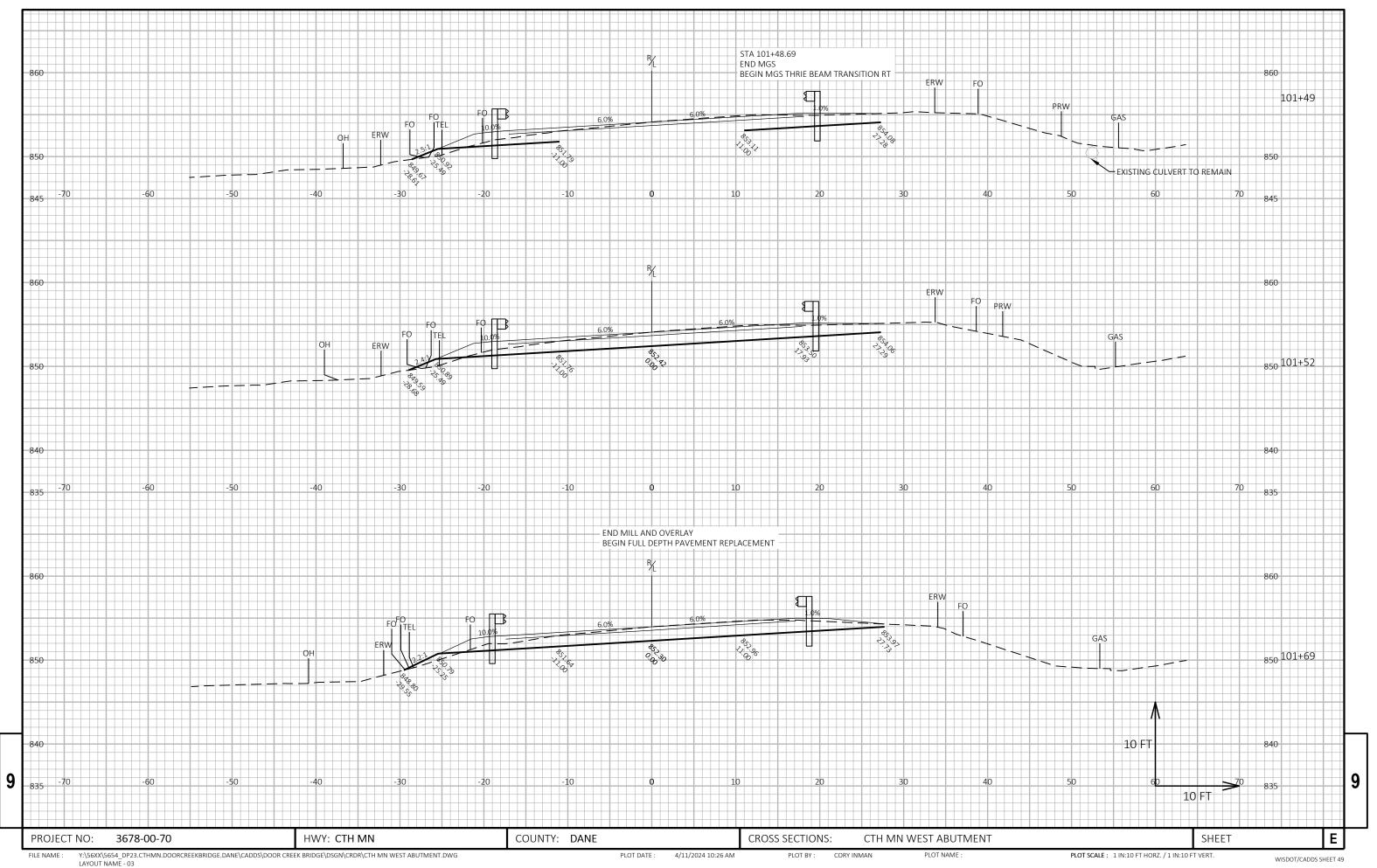
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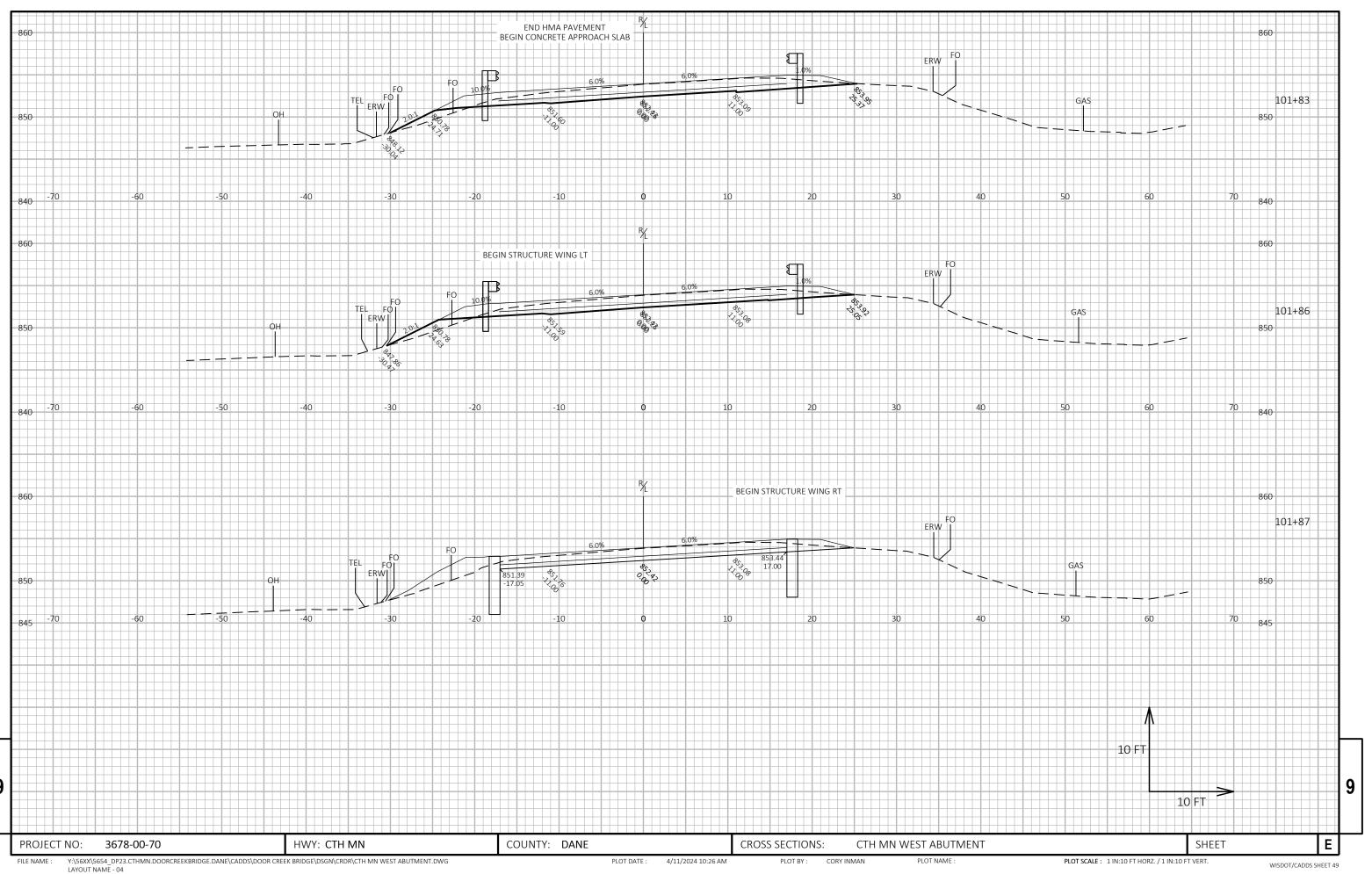
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PLOT BY: JORDYN BENN

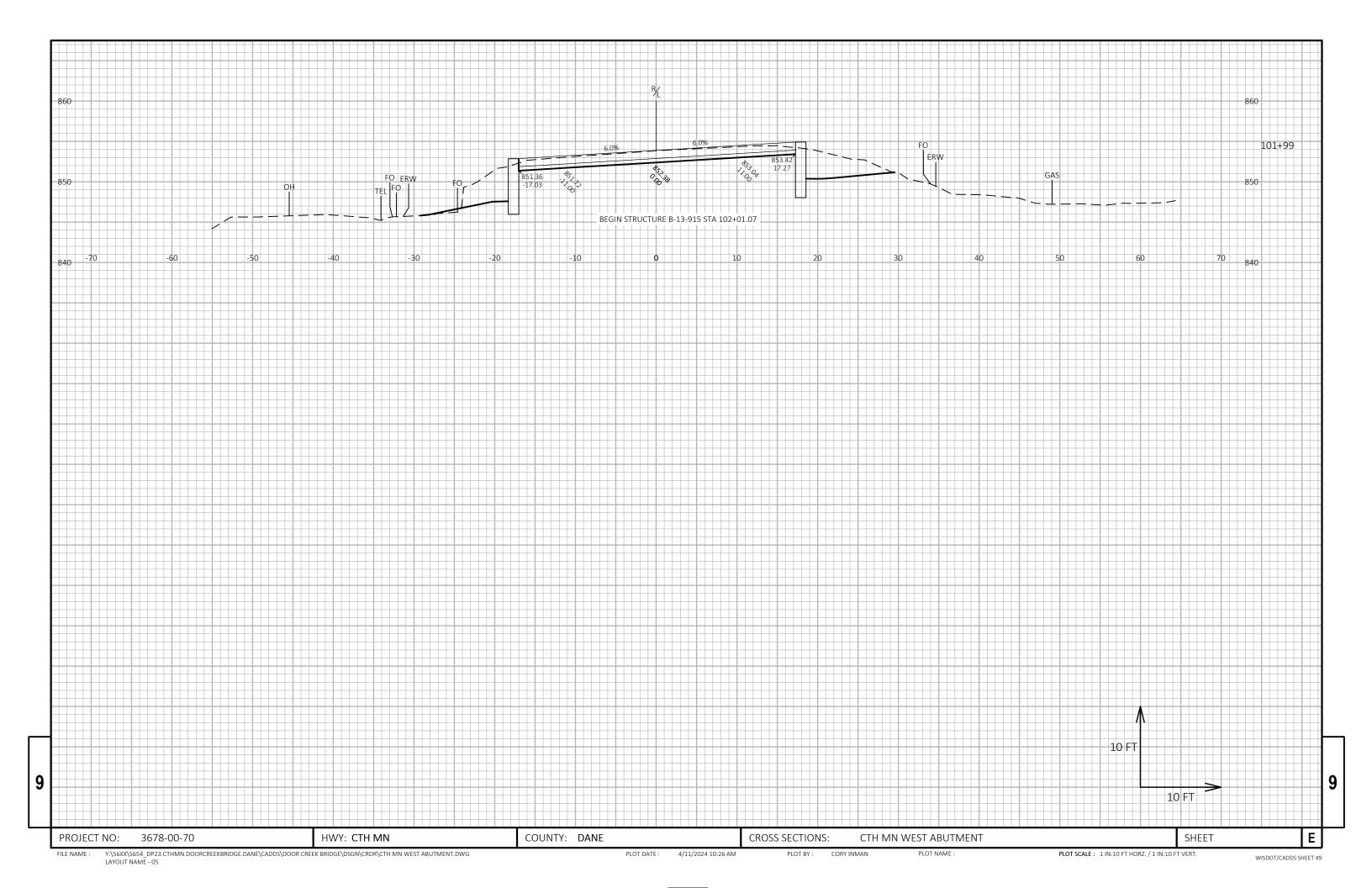


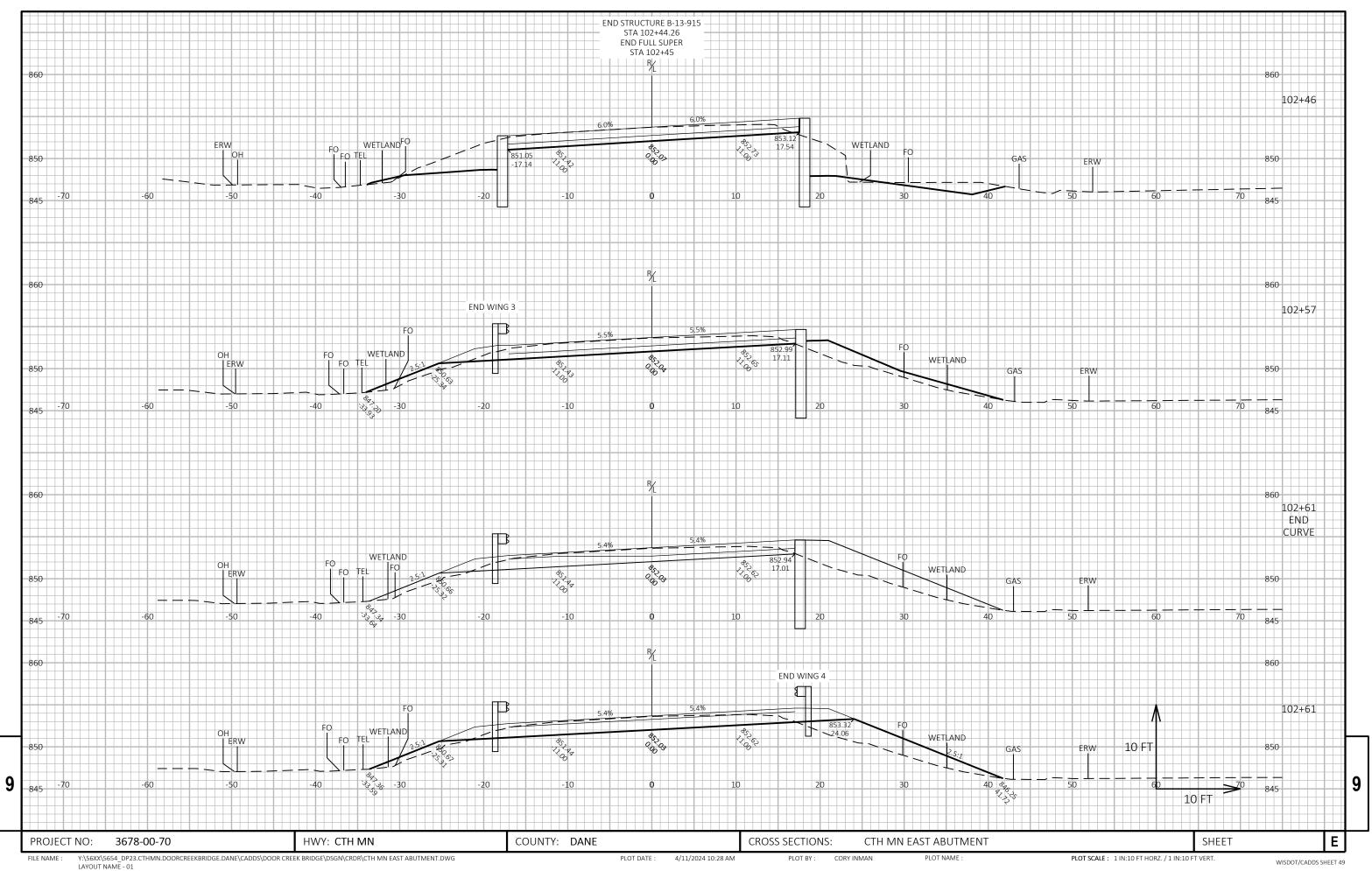


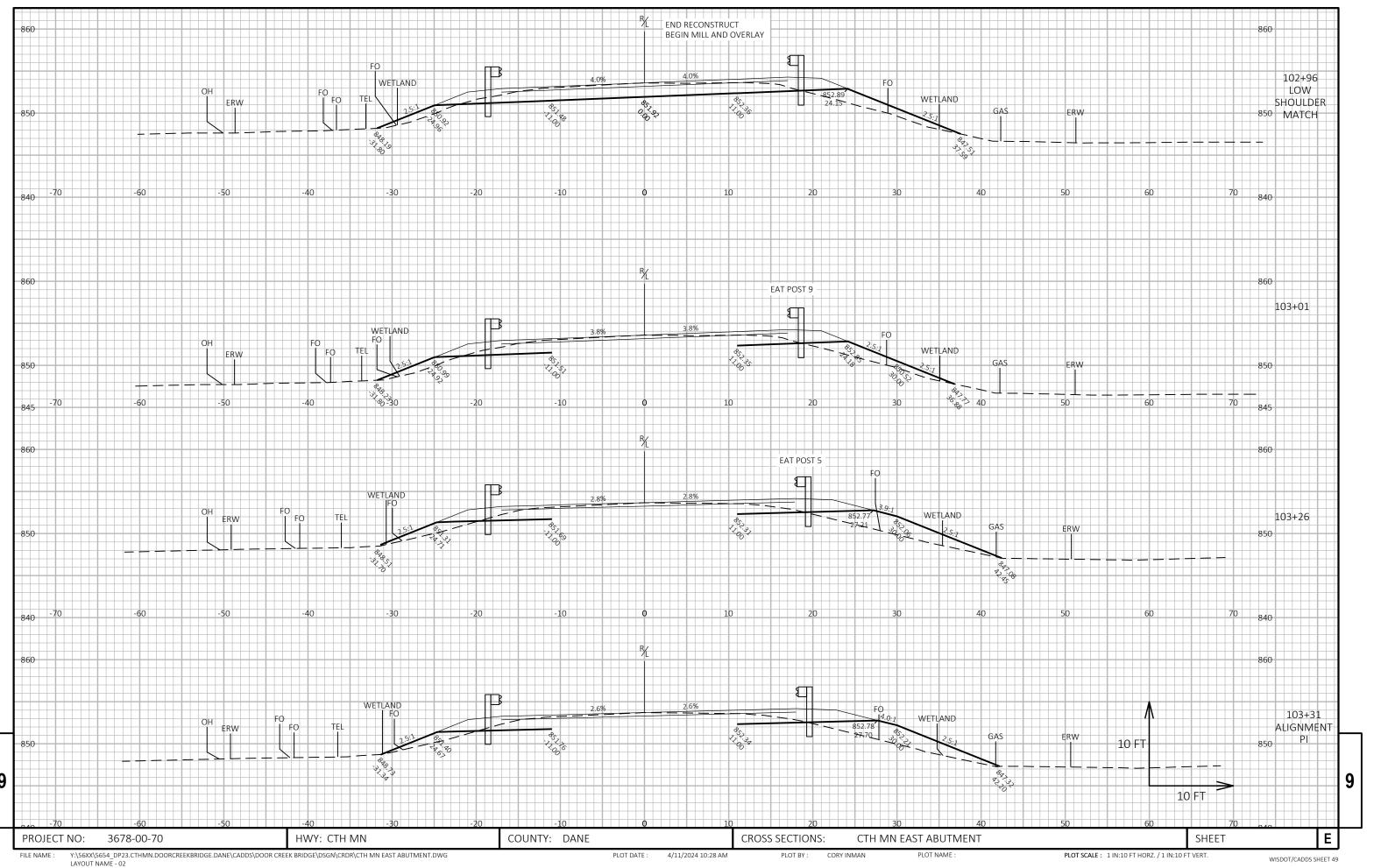




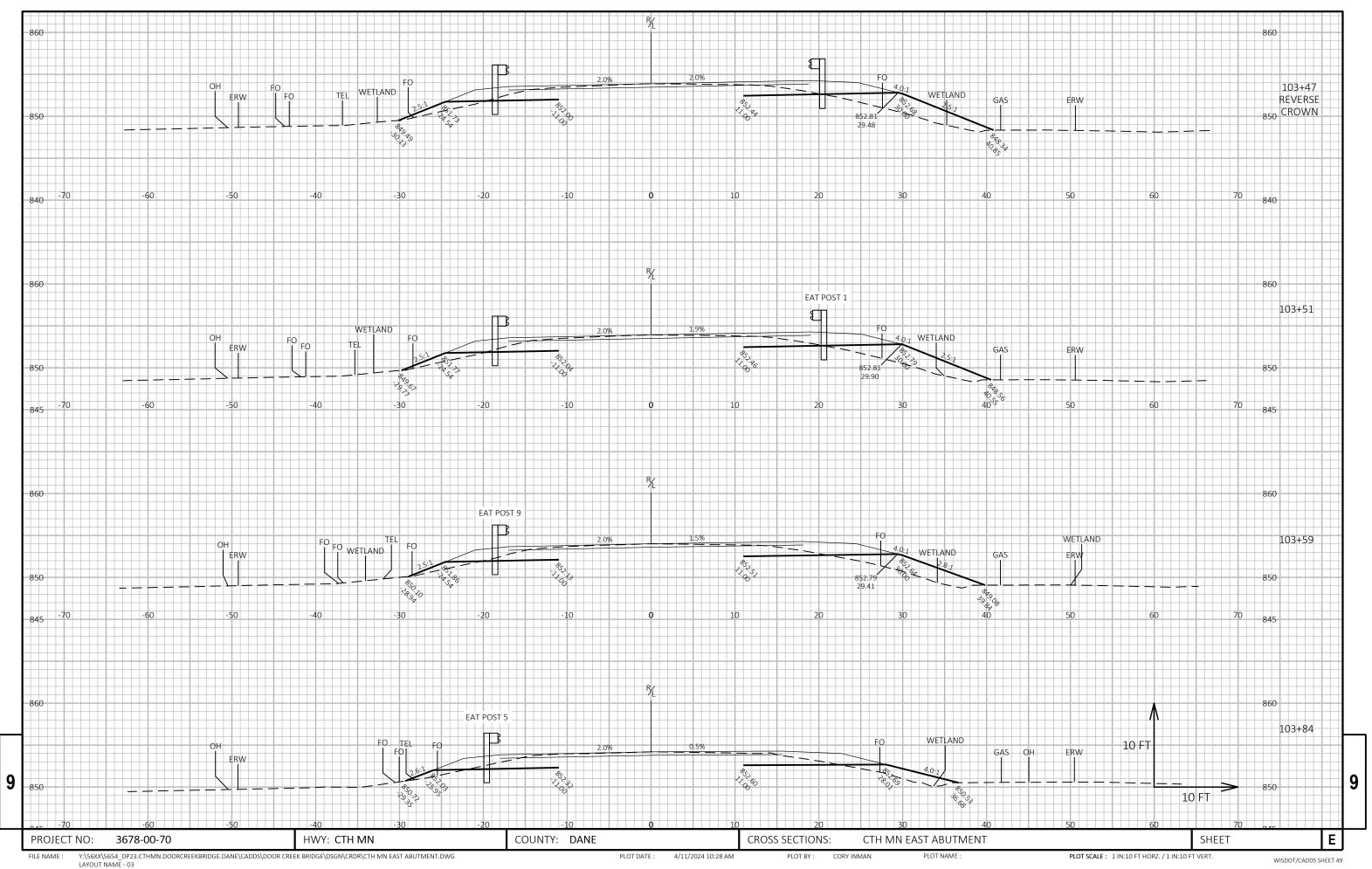
WISDOT/CADDS SHEET 49



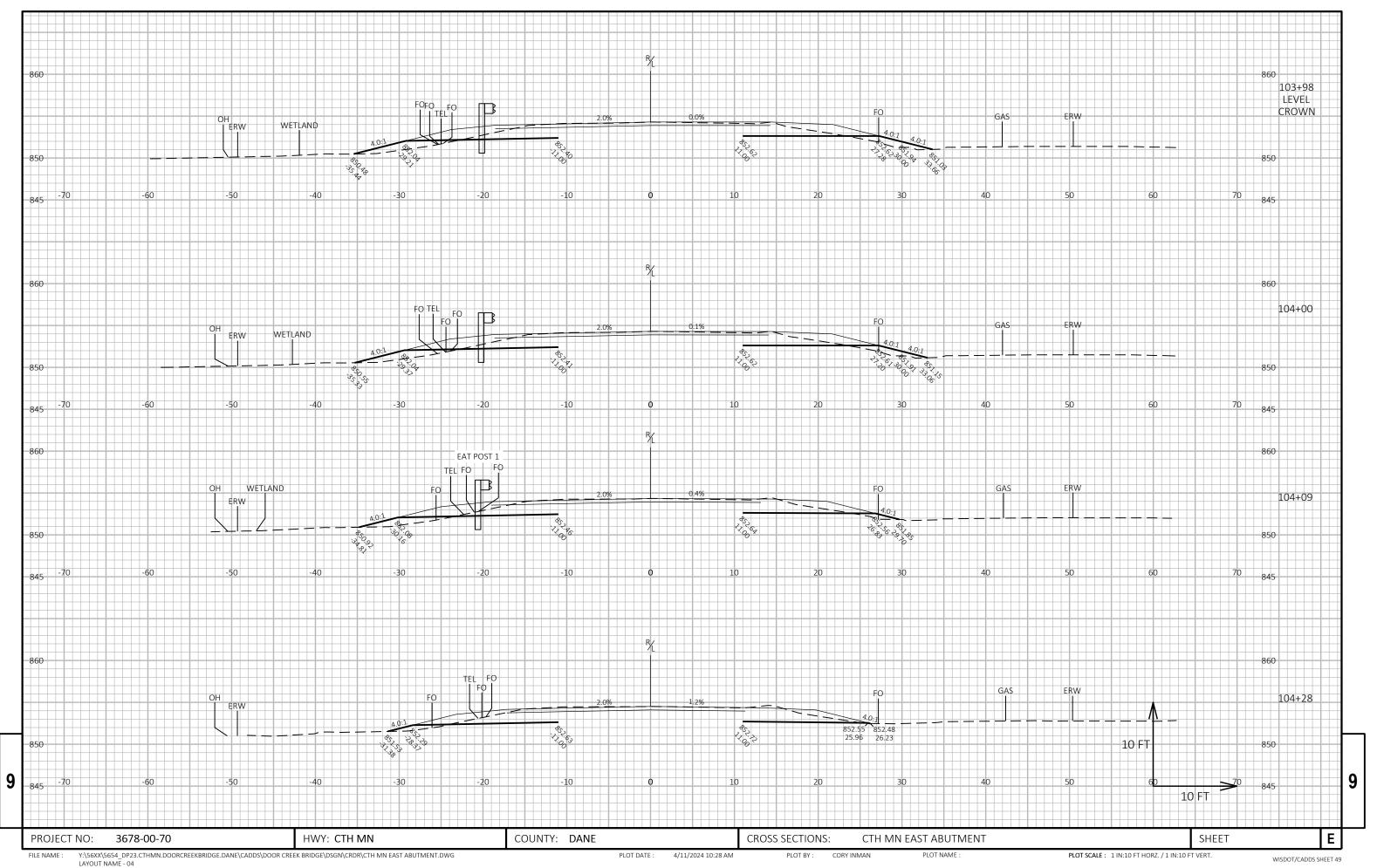


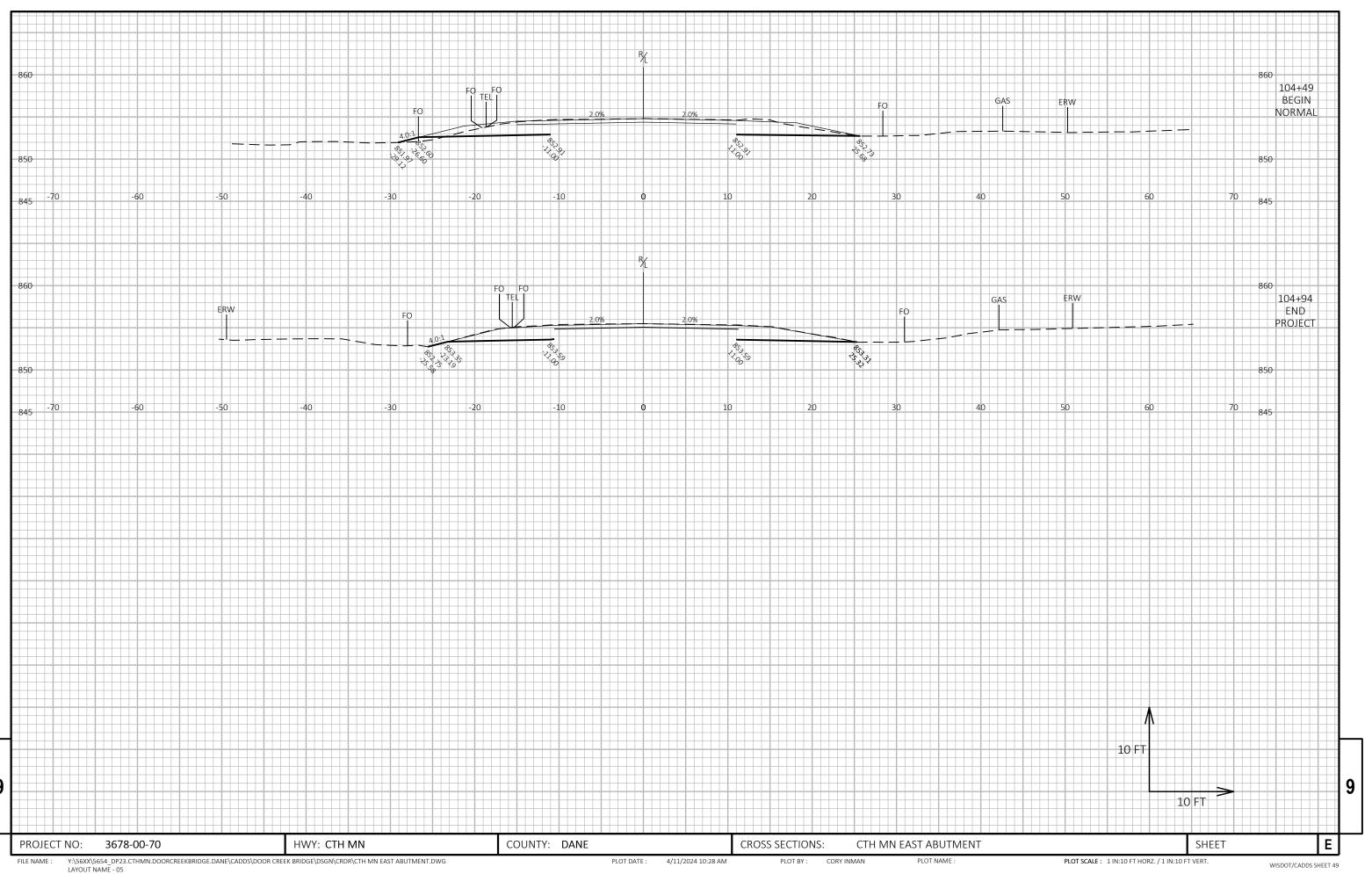


LATOUT NAIME - UZ



WISDOT/CADDS SHEET 49







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