NOVEMBER 2017 ORDER OF SHEETS Section No. 1 Typical Sections and Details Section No. 2 Estimate of Quantities Section No. 3 Section No. 3 Miscellaneous Quantities Plan and Profile Section No. 5 Section No. 6 Standard Detail Drawings 0 Sign Plates Section No. 7 S Computer Earthwork Data Section No. 9 Cross Sections Section No. 9 TOTAL SHEETS = 154 DESIGN DESIGNATION A.A.D.T. 2038 = 5100 = 1060 D.H.V. = 59/41 = 8.5% DESIGN SPEED = 30 - 60 MPH = 25915 ESALS CONVENTIONAL SYMBOLS CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA

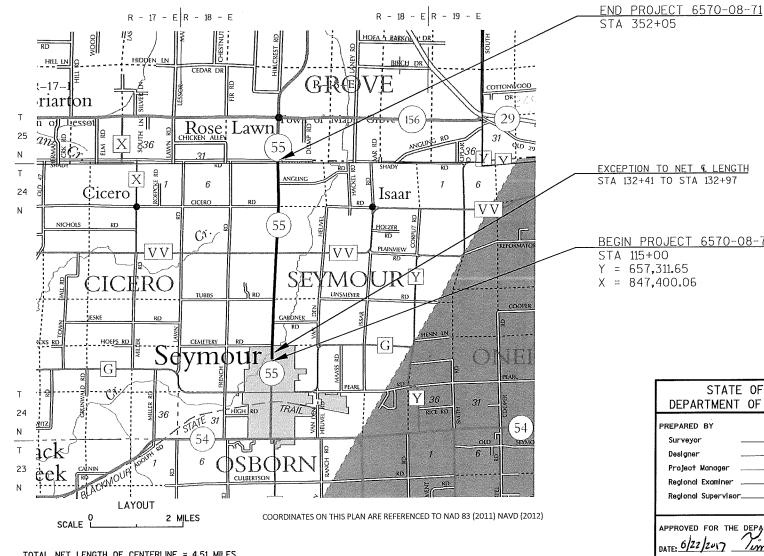
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SEYMOUR - ANGELICA

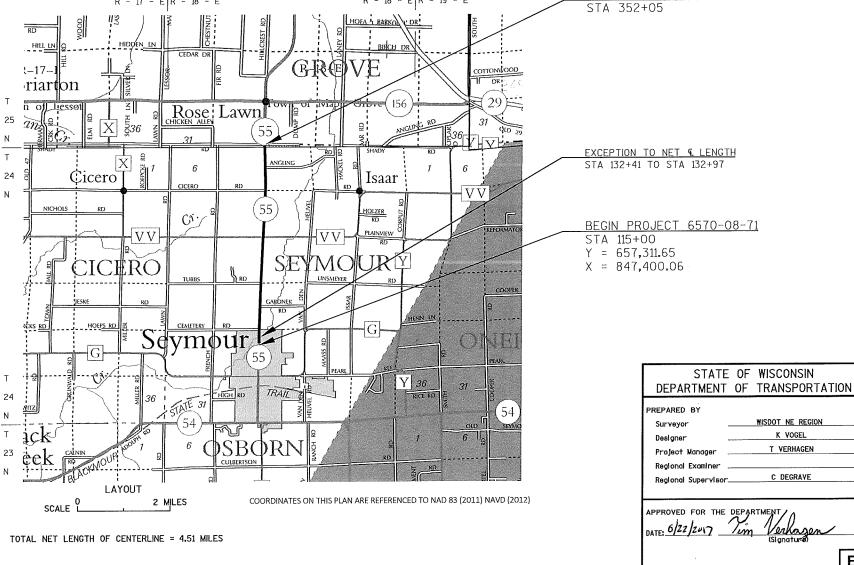
OUTAGAMIE COUNTY

STATE PROJECT NUMBER 6570-08-71



LAKE ROAD - NCL

STH 55



PROFILE GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

₫

Ø

STORM SEWER

TELEPHONE WATER

POWER POLE

GRADE ELEVATION

MARSH OR ROCK PROFILE

CULVERT (Profile View)

(To be noted as such)

FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2017619

STATE PROJECT

6570-08-71

GENERAL NOTES

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

EXISTING PERMANENT SIGNS ARE TO REMAIN IN PLACE UNLESS SPECIALLY CALLED FOR REMOVAL ON MISCELLANEOUS QUANTITY TABLE.

THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER. DETAILS OF CONSTRUCTION NOT SHOWN ON THE PLAN SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

INLET AND DISCHARGE ELEVATIONS AND SKEW FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. ADJUST ELEVATIONS AND SKEW AS DIRECTED BY THE ENGINEER.

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

ALL DISTURBED AREAS, NOT OTHERWISE SURFACED, ARE TO BE TOPSOILED, FERTILIZED, SEEDED AND COVERED WITH EROSION MAT, AS SHOWN ON THE PLANS.

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

THE EROSION CONTROL ITEMS ARE SHOWN ON THE EROSION CONTROL PLAN AT SUGGESTED LOCATIONS. THE EXACT LOCATIONS OF ALL EROSION CONTROL ITEMS SHALL BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ALL UTILITIES IN THE VICINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST THREE WORKING DAYS PRIOR TO BEGINNING WORK.

UTILITIES

CENTURY LINK - COMMUNICATION LINE MATT GUNDERSON 212 CHURCH AVE CASCO, WI 54205 (920) 837-2344 (920) 896-2867

 $\verb|matt.gunderson@centurylink.com| \\$

CITY OF SEYMOUR - WATER MIKE PEPIN 445 MUNICIPAL DR SEYMOUR, WI 54165-1056 (920) 833-2397 (920) 851-3446

WE ENERGIES - ELECTRICITY STEVE ARMSTRONG 800 S. LYNNDALE DR APPLETON, WI 54912-1699 (920) 380-3563

steven.armstrona@we-energies.com

CITY OF SEYMOUR - SEWER MIKE PEPIN 445 MUNICIPAL DR SEYMOUR, WI 54165-1056 (920) 833-2397 (920) 851-3446

TIME WARNER CABLE - COMMUNICATION LINE VINCENT ALBIN 3520 E DESTINATION DR APPLETON, WI 54915 (920) 831-9249 (920) 378-0444 vince.albin@charter.com

WE ENERGIES - GAS/PETROLEUM ANDY ROOYAKKERS 800 S. LYNNDALE DR APPLETON, WI 54912-1699 (920) 380-3476 (920) 858-4857 andrew.rooyakkers@we-energies.com DNR AREA LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES WISCONSIN DEPARTMENT OF NATURAL RESOURC 2984 SHAWANO AVENUE GREEN BAY, WI 54313-6727 ATTN: MATTHEW SCHAEVE PHONE: 920-662-5472 CELL: 920-366-1544 FAX: 920-662-5159 E-MAIL: MATTHEW.SCHAEVE@WISCONSIN.GOV

SURVEY CONTACT PERSON

CORMAC MCINNIS WISDOT-NE REGION 944 VANDERPERREN WAY GREEN BAY, WI 54304 920-492-5638 cormac.mcinnis@dot.wi.gov



EMERGENCY CONTACT NUMBERS FOR WE ENERGIES

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-662-4797 GAS 24 HOUR EMERGENCY SERVICE: 1-800-261-5325

PROJECT NO:6750-08-71

HWY: STH 55

COUNTY: OUTAGAMIE

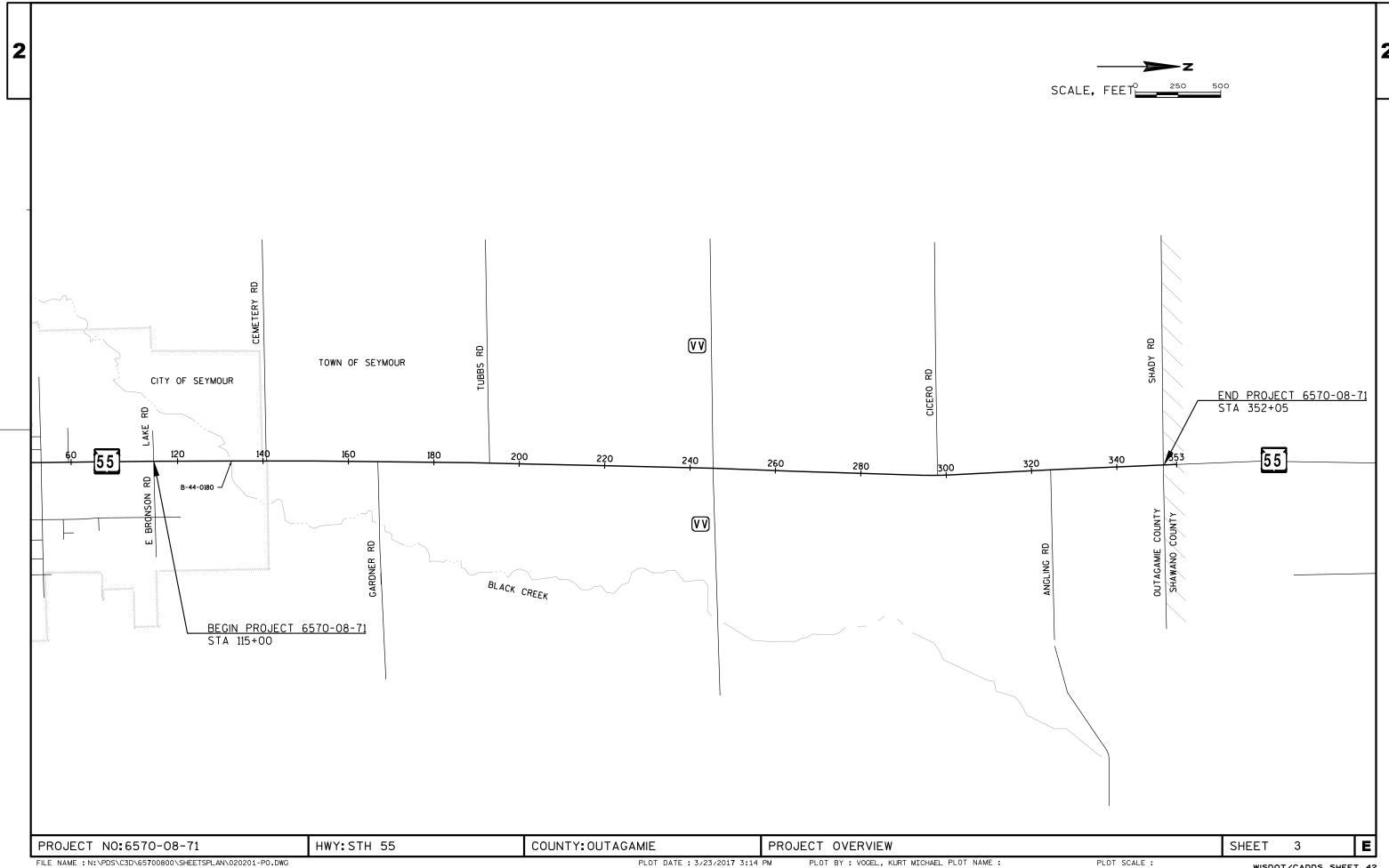
GENERAL NOTES

SHEET

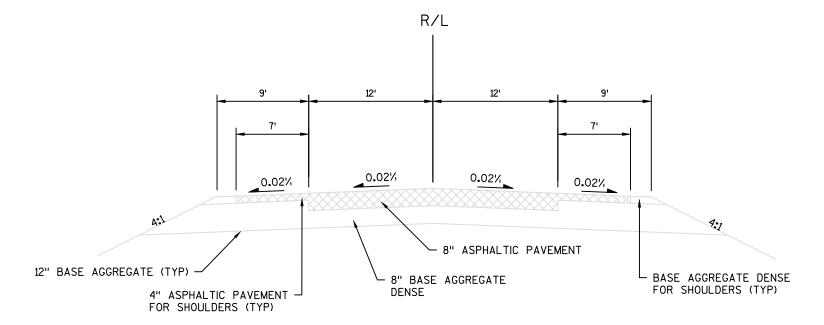
E

WISDOT/CADDS SHEET 42

PLOT BY: VERHAGEN, TIMOTHY G PLOT NAME:

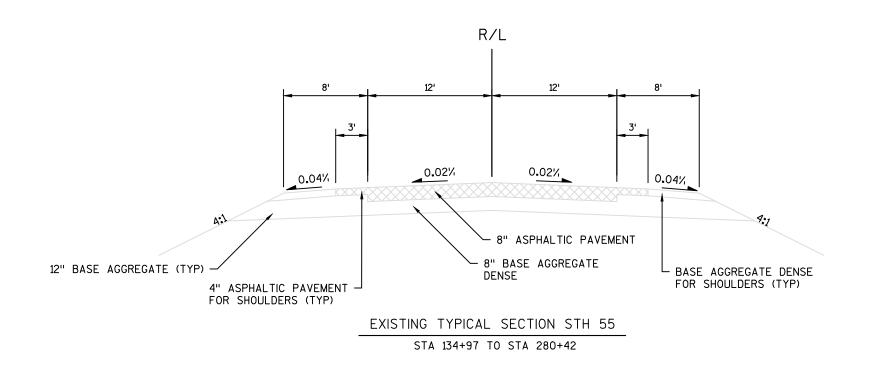






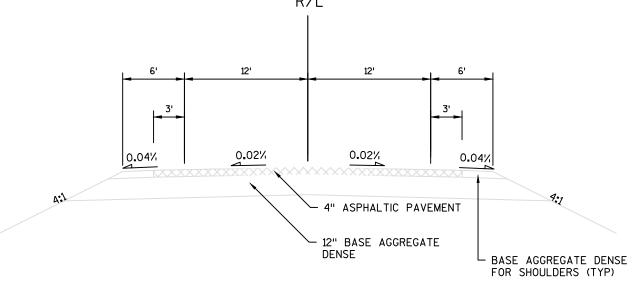
EXISTING TYPICAL SECTION STH 55

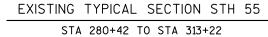
STA 115+00 TO STA 134+97

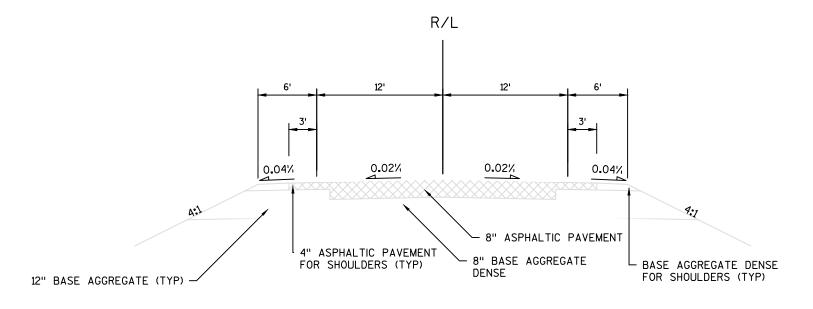


PROJECT NO:6570-08-71 HWY:STH 55 COUNTY:OUTAGAMIE TYPICAL SECTIONS SHEET 4





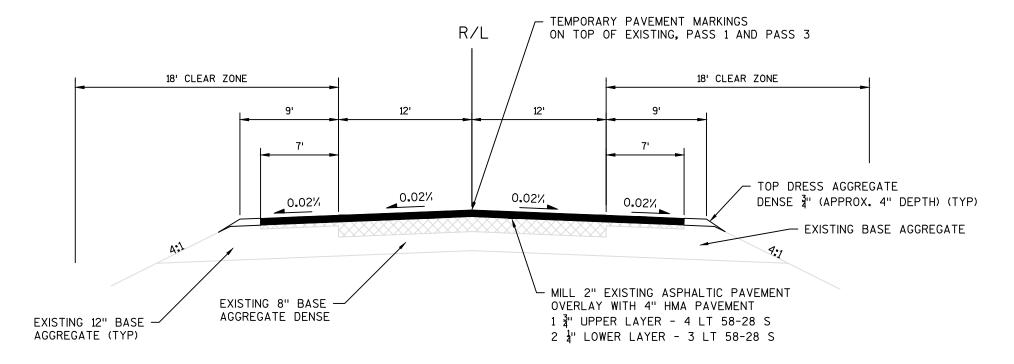




STA 313+22 TO STA 352+05

PROJECT NO:6570-08-71 HWY:STH 55 COUNTY:OUTAGAMIE TYPICAL SECTIONS SHEET 5 **E**





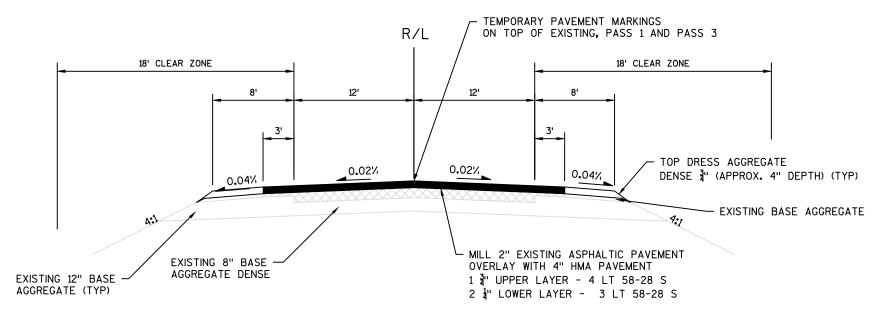
FINISHED TYPICAL SECTION STH 55
STA 115+00 TO STA 134+97

* 7' PAVED SHOULDER FROM APPROXIMATE STA 134+97 - STA 143+28 RT AND STA 134+97 - STA 140+20 LT TEMPORARY PAVEMENT MARKINGS R/L ON TOP OF EXISTING, PASS 1 AND PASS 3 ** MATCH EXISTING PAVED SHOULDER FROM APPROXIMATE STA 140+20 - STA 143+28 LT 18' CLEAR ZONE 18' CLEAR ZONE 12' 12' 8' * * TOP DRESS AGGREGATE 0.02% 0.02% 0.02% 0.02% DENSE 4" (APPROX. 4" DEPTH) (TYP) EXISTING BASE AGGREGATE 4:1 4:1 MILL 2" EXISTING ASPHALTIC PAVEMENT EXISTING 8" BASE -OVERLAY WITH 4" HMA PAVEMENT AGGREGATE DENSE EXISTING 12" BASE 1 3" UPPER LAYER - 4 LT 58-28 S AGGREGATE (TYP) 2 1 LOWER LAYER - 3 LT 58-28 S

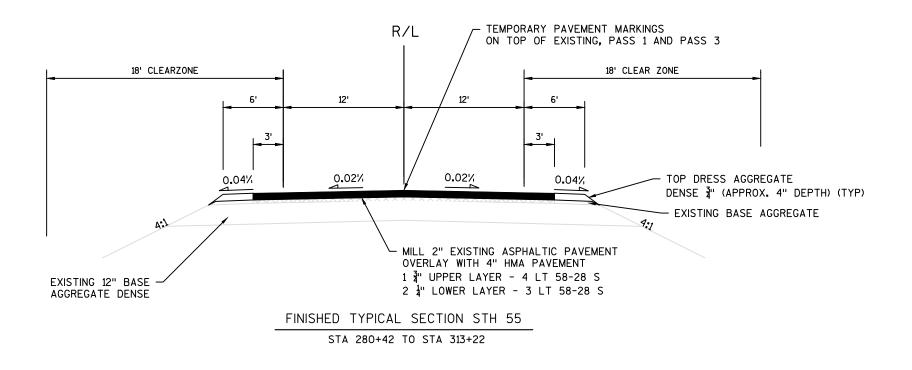
FINISHED TYPICAL SECTION STH 55

STA 134+97 TO STA 143+28

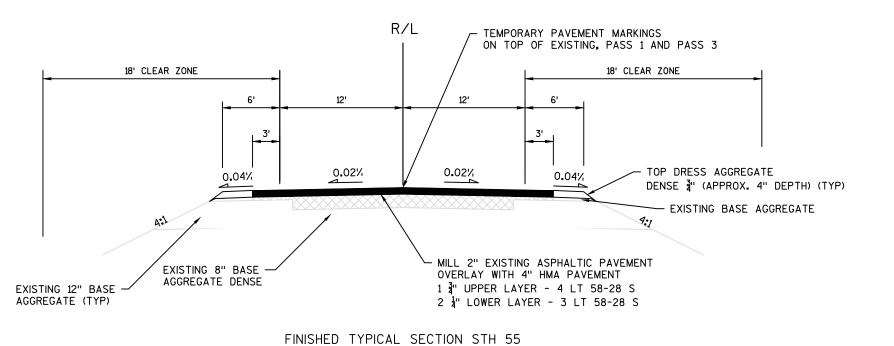
PROJECT NO:6570-08-71 HWY:STH 55 COUNTY:OUTAGAMIE TYPICAL SECTIONS SHEET **E**



FINISHED TYPICAL SECTION STH 55
STA 143+28 TO STA 280+42



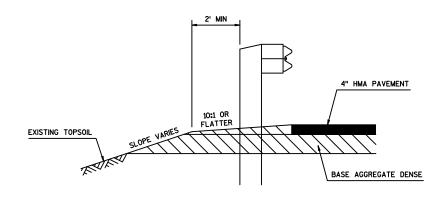
PROJECT NO:6570-08-71 HWY:STH 55 COUNTY:OUTAGAMIE TYPICAL SECTIONS SHEET **E**



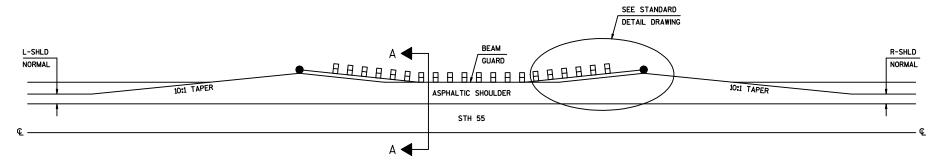
PROJECT NO:6570-08-71 HWY:STH 55 COUNTY:OUTAGAMIE TYPICAL SECTIONS SHEET E

STA 313+22 TO STA 352+05

FILE NAME: N:\PDS\C3D\65700800\SHEETSPLAN\020301-TS(71).DWG PLOT DATE: 5/19/2017 9:13 AM PLOT BY: VOGEL, KURT MICHAEL PLOT NAME: PLOT SCALE: 1 IN:10 FT WISDOT/CADDS SHEET 42



SECTION A-A

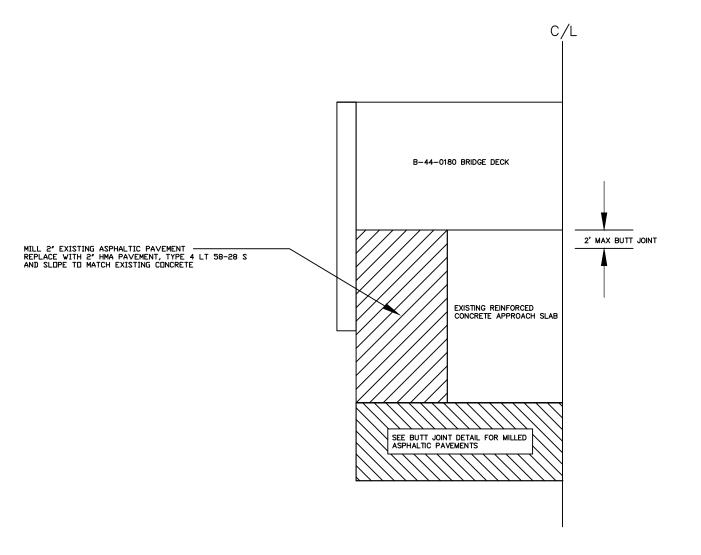


DETAIL FOR ASPHALTIC SHOULDER AT GUARDRAIL

PROJECT NO:6570-08-71 HWY:STH 55 COUNTY:OUTAGAMIE CONSTRUCTION DETAILS SHEET E

FILE NAME : N:\PDS\C3D\65700800\SHEETSPLAN\021001-CD.DWG PLOT BY : VOGEL, KURT MICHAEL PLOT NAME : PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42

2

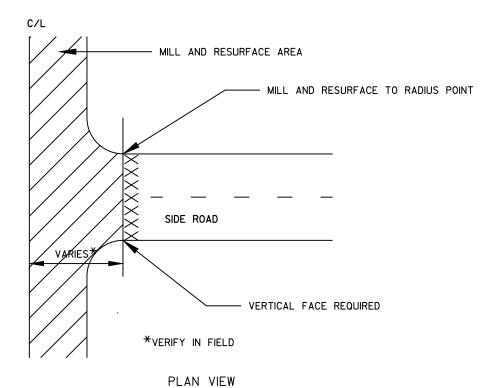


MILLING DETAIL FOR APPROACHES AT B-44-0180

DETAIL FOR NE, NW, SE, & SW QUADRANTS

PROJECT NO:6570-08-71 HWY:STH 55 COUNTY:OUTAGAMIE PLAN: CONSTRUCTION DETAILS SHEET

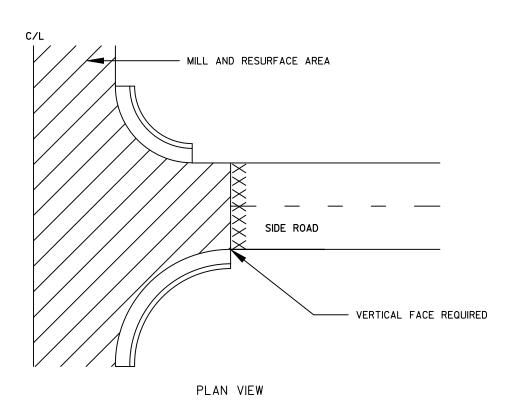
SIDE ROAD DETAIL - NO CURB & GUTTER NOT TO SCALE

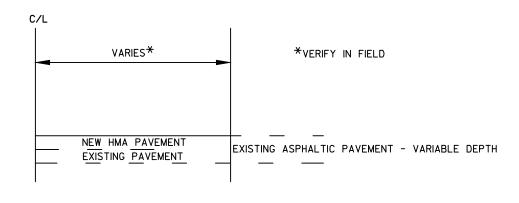


NEW HMA_PAVEMENT __ EXISTING ASPHALTIC PAVEMENT - VARIABLE DEPTH R/L

ELEVATIONS

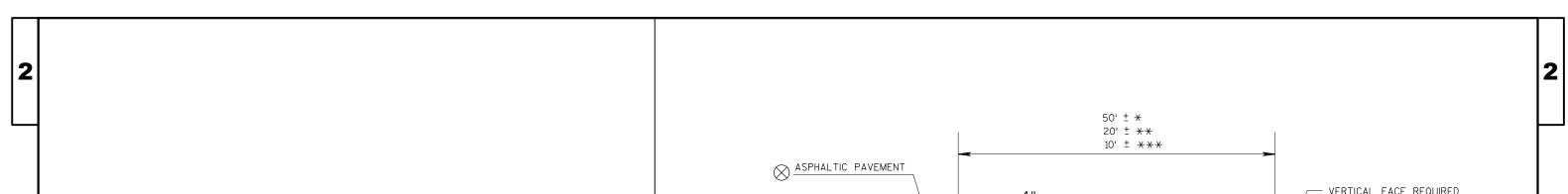
SIDE ROAD DETAIL - CURB & GUTTER NOT TO SCALE

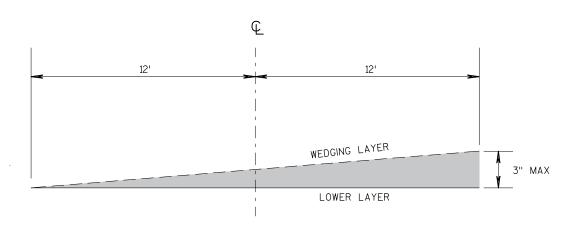




ELEVATIONS

PROJECT NO:6570-08-71 HWY:STH 55 COUNTY:OUTAGAMIE CONSTRUCTION DETAILS SHEET E

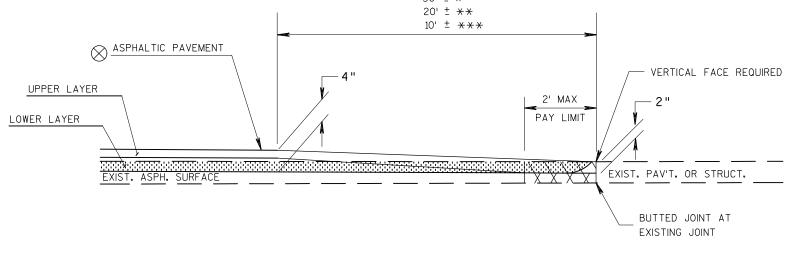




WEDGING LAYER TO INCREASE SUPERELEVATION

CURVE PI STA 297+56 EXISTING SUPER 0.08%

PLAN SUPER 1.0%



SEE TYPICAL CROSS SECTION FOR THICKNESS OF INDIVIDUAL LAYERS

R

REMOVING ASPHALTIC SURFACE, MILLING

REMOVING ASPHALTIC SURFACE, BUTT JOINTS (FULL DEPTH REMOVAL OPTIONAL)

ASPHALTIC WEDGING (FULL DEPTH REMOVAL OPTION)

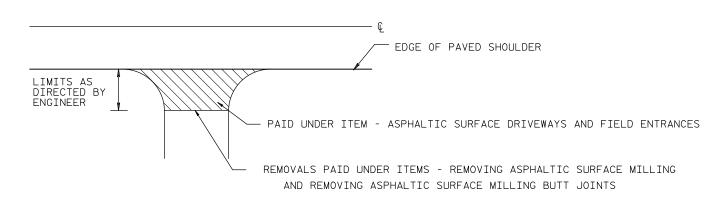
BUTT JOINT DETAIL FOR MILLED ASPHALTIC PAVEMENTS

* MAINLINE

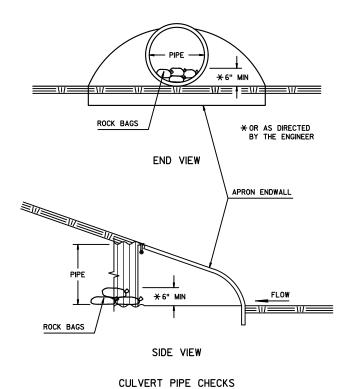
** SIDEROADS

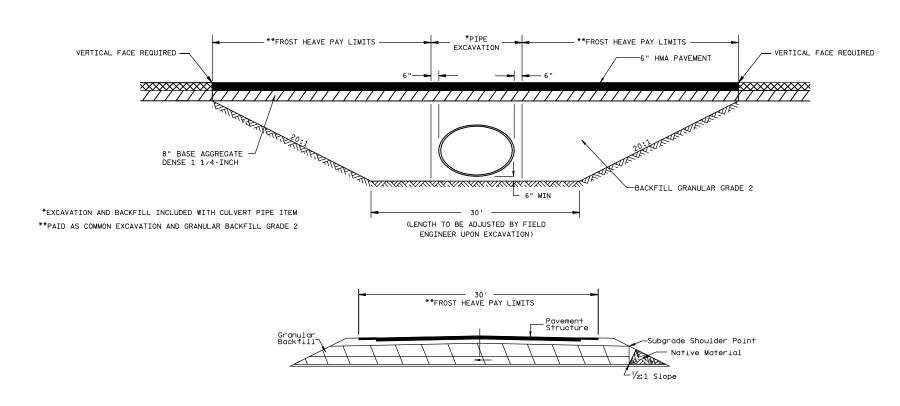
*** PRIVATE ENTRANCES

RURAL DRIVEWAY DETAIL - ASPHALT



PROJECT NO:6570-08-71 HWY:STH 55 COUNTY:OUTAGAMIE CONSTRUCTION DETAILS SHEET **E**





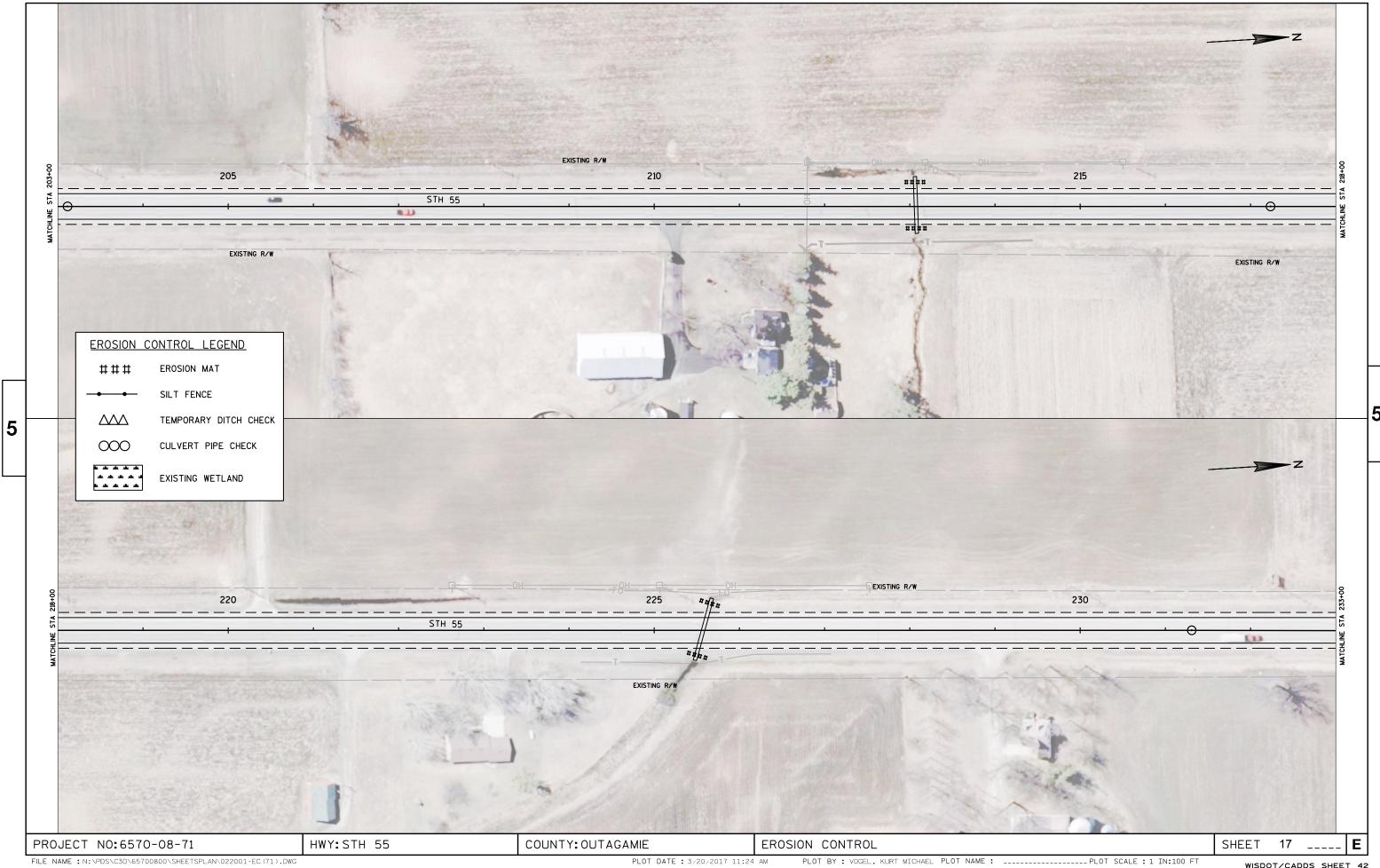
FROST HEAVE REPAIR AREA STA 225+56

PROJECT NO:6570-08-71 HWY:STH 55 COUNTY:OUTAGAMIE CONSTRUCTION DETAILS SHEET **E**

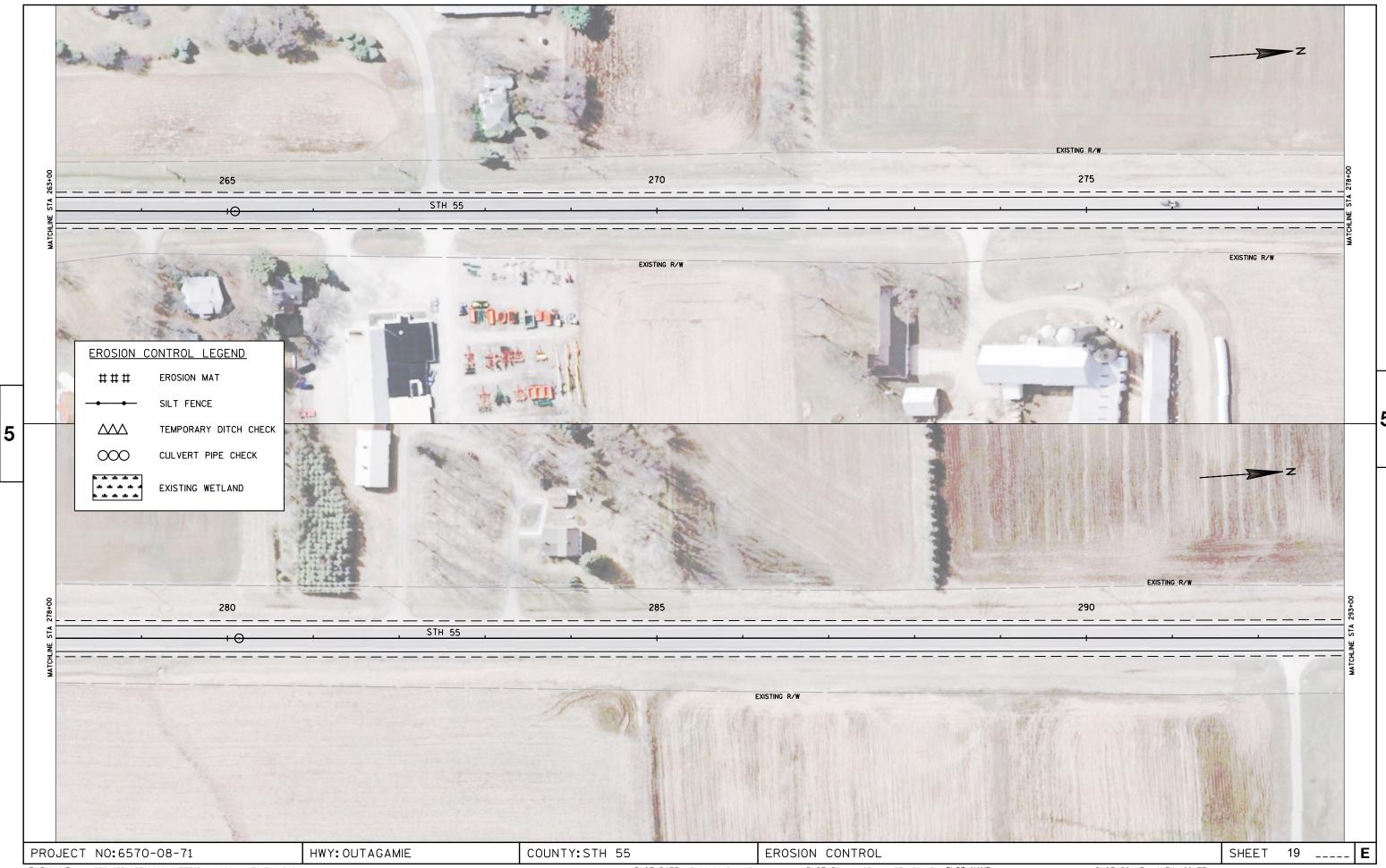




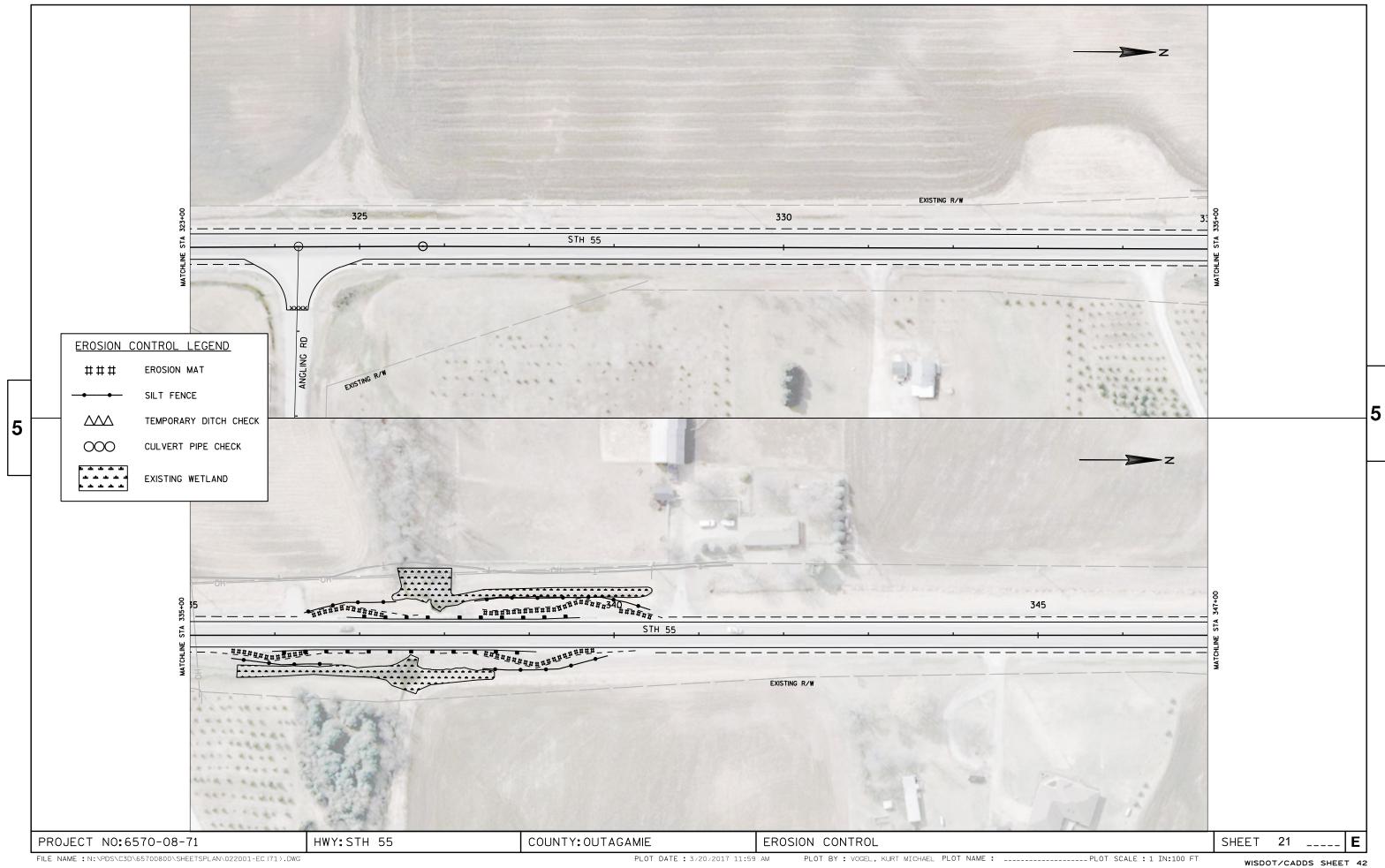




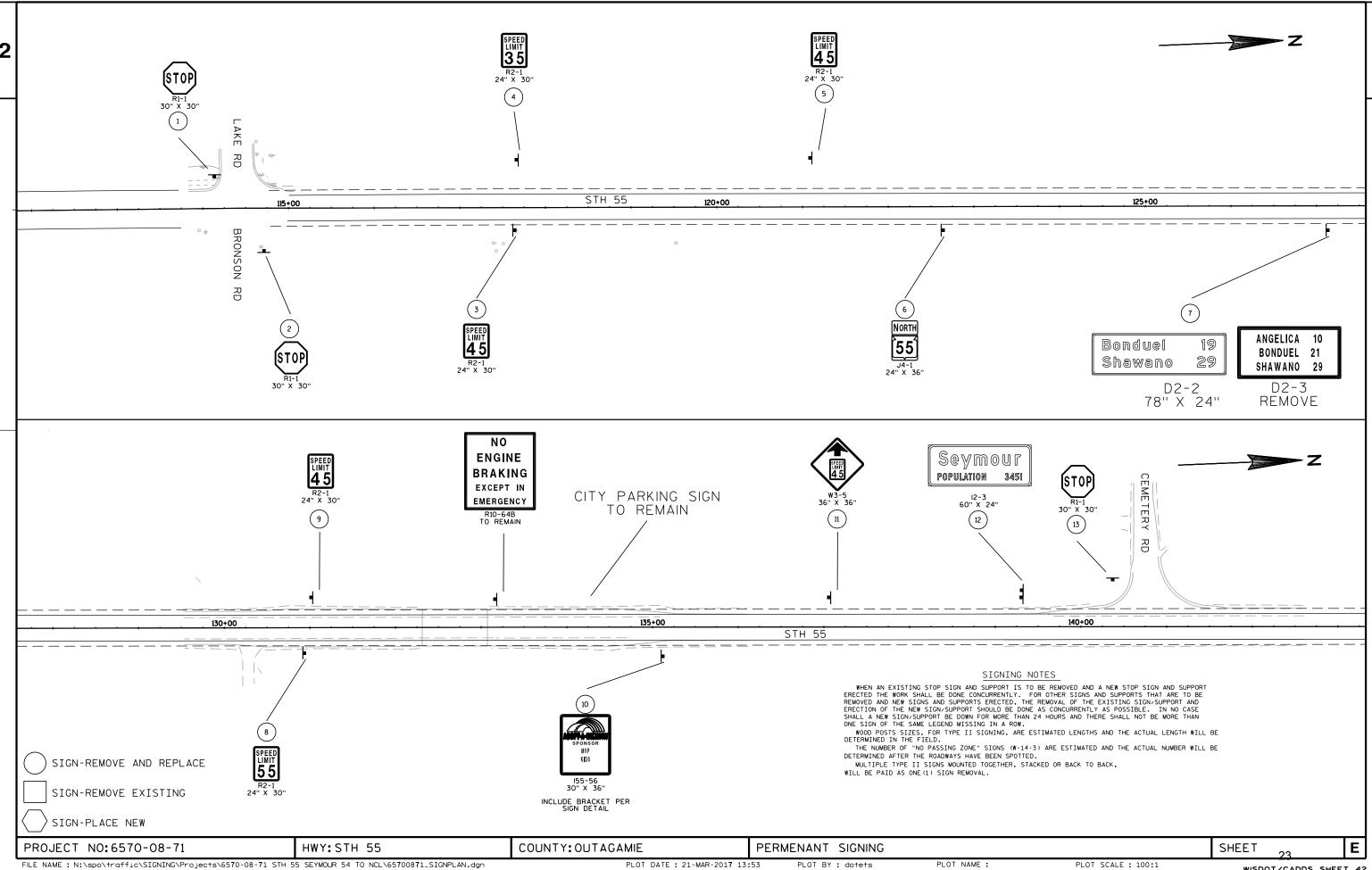








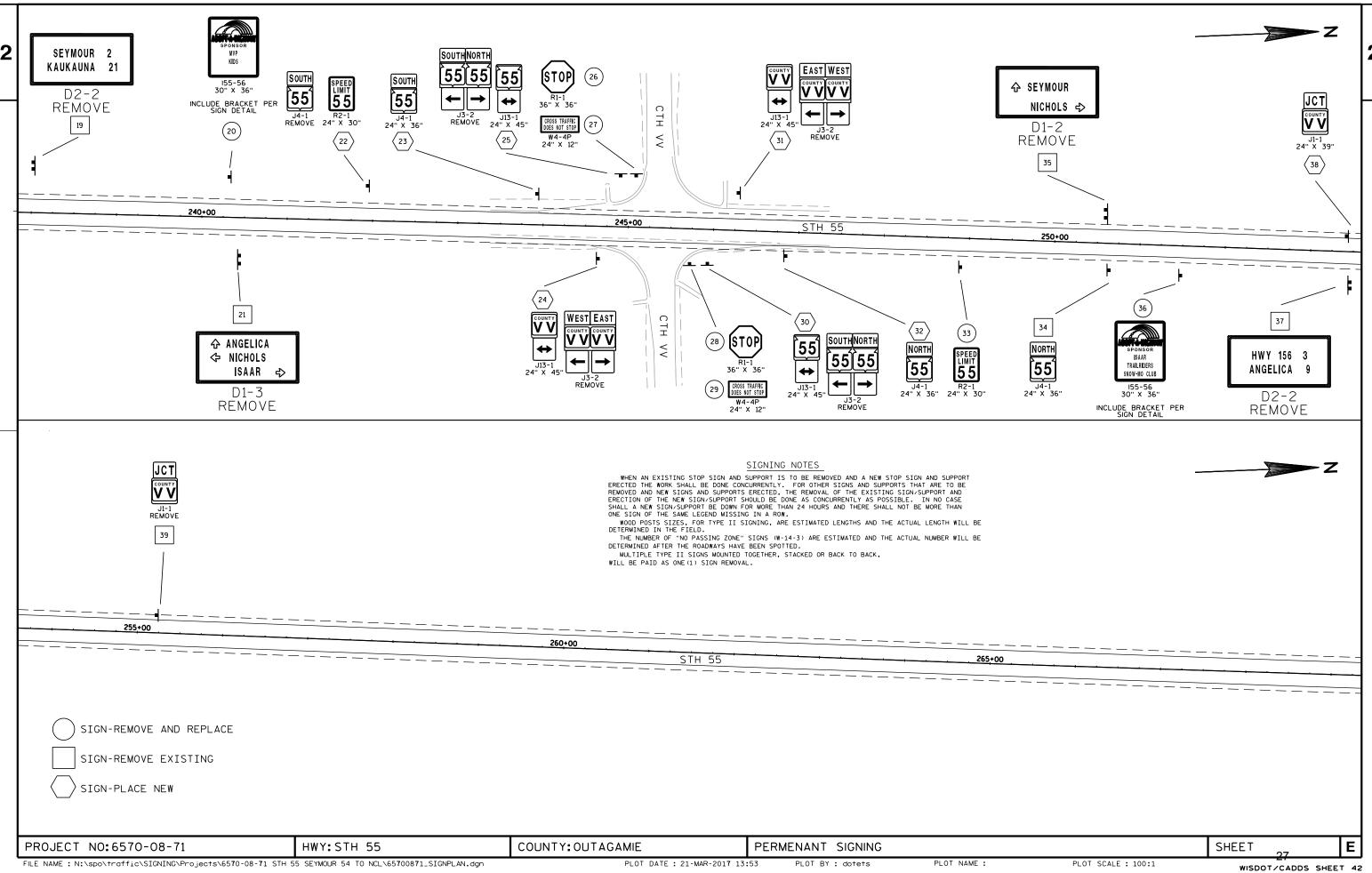




						7
T200 SIGN TO REMAIN						
1200 SIGN TO REMAIN						
145+00		150+00	STH 55	155+00		· · · · · · · · · · · · · · · · · · ·
		SIGNING NO	NTC .			
	EF	WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO	BE REMOVED AND A NEW STOP SIGN AND SUPPORT			
	EF SH	EMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE RECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE HALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 2	AS CONCURRENTLY AS POSSIBLE. IN NO CASE			
	DE	NE SIGN OF THE SAME LEGEND MISSING IN A ROW. WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ES ETERMINED IN THE FIELD. THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3				
	DE	ETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED. MULTIPLE TYPE II SIGNS MOUNTED TOGETHER, STAC ILL BE PAID AS ONE (1) SIGN REMOVAL.				
		THE DE FAIR AS SHE'LLY STON NEWSTAR.				
						Z
			/ `			
160+00		165+00	STH 55	170+00		
			3111 33			
C101 551/0/5 1/2 5-5/10-5						
SIGN-REMOVE AND REPLACE						
SIGN-REMOVE EXISTING		5	STOP)			
SIGN-PLACE NEW			RI-1 30" X 30"			
PROJECT NO:6570-08-71	HWY:STH 55	COUNTY: OUTAGAMIE	PERMENANT SIGNING			SHEET 24 E
FILE NAME: N:\spo\traffic\SIGNING\Projects\6570-08-71			1-MAR-2017 13:53 PLOT BY : dotets	PLOT NAME :	PLOT SCALE : 100:1	WISDOT/CADDS SHEET 42

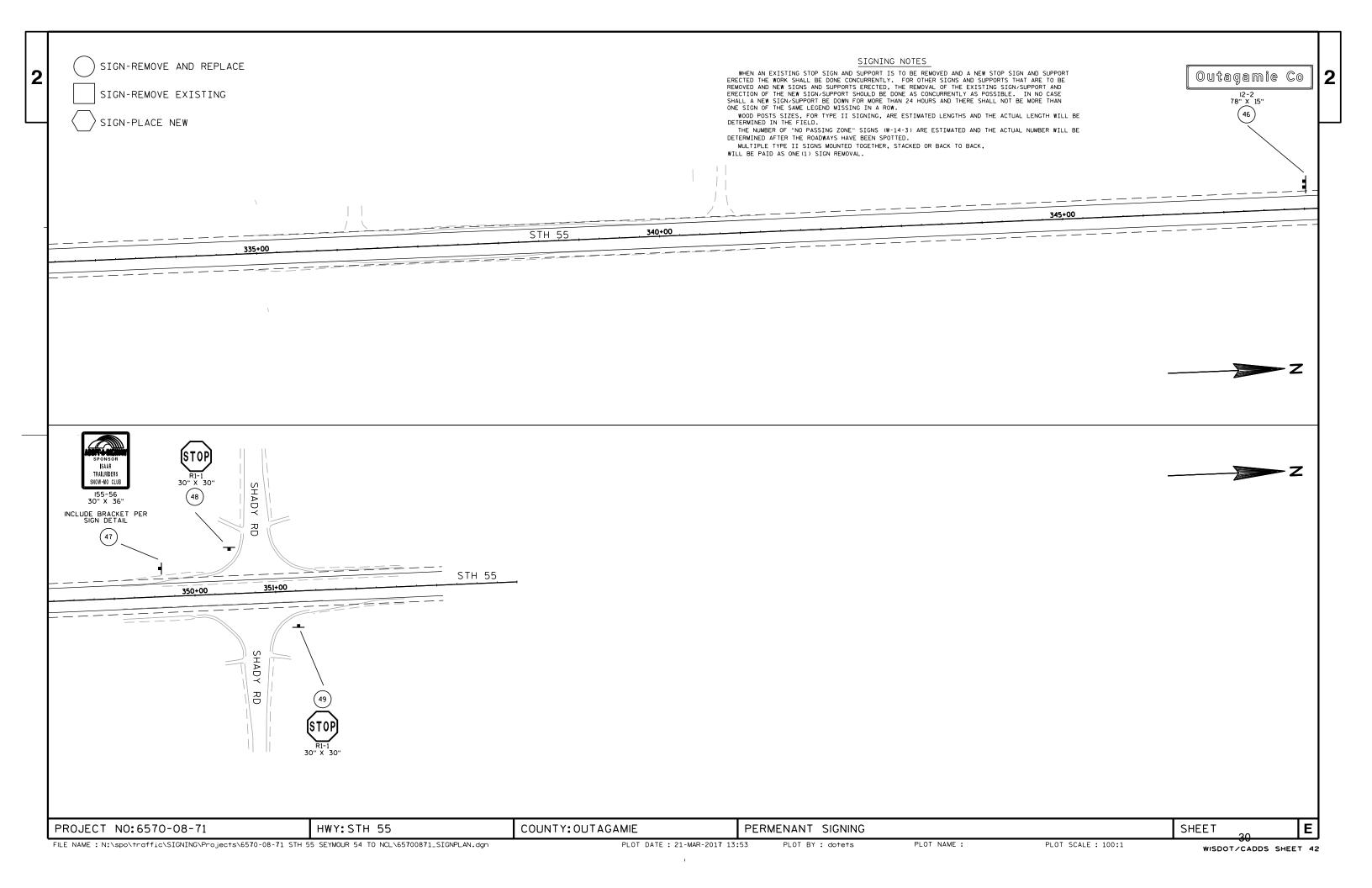
SIGN-REMOVE AND REPLACE SIGN-REMOVE EXISTING SIGN-PLACE NEW					
175÷00					
					190+00
	ERECTED THE WORK SHALL BE DONE REMOVED AND NEW SIGNS AND SUPP ERECTION OF THE NEW SIGN/SUPPOT SHALL A NEW SIGN/SUPPOT BE DO ONE SIGN OF THE SAME LEGEND MI WOOD POSTS SIZES, FOR TYPE DETERMINED IN THE FIELD. THE NUMBER OF "NO PASSING Z DETERMINED AFTER THE ROADWAYS	II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL CONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL HAVE BEEN SPOTTED.	E LL BE		
NO PASSING ZONE W14-3 48" × 36" (15A) NO PASSING R1-1 30" × 30" (15) R1-1 30" × 30" TUBBS RD					Z
	195+00				
16 W1-7 48" X 24"	NO PASSIN ZONE W14- 48" X		200+00		205+00
PROJECT NO:6570-08-71 HW	Y:STH 55	COUNTY: OUTAGAMIE	PERMENANT SIGNING		SHEET E
FILE NAME: N:\spo\traffic\SIGNING\Projects\6570-08-71 STH 55 SEYM		PLOT DATE : 21-MAR-2017 1		PLOT SCALE : 100:1	WISDOT/CADDS SHEET 42

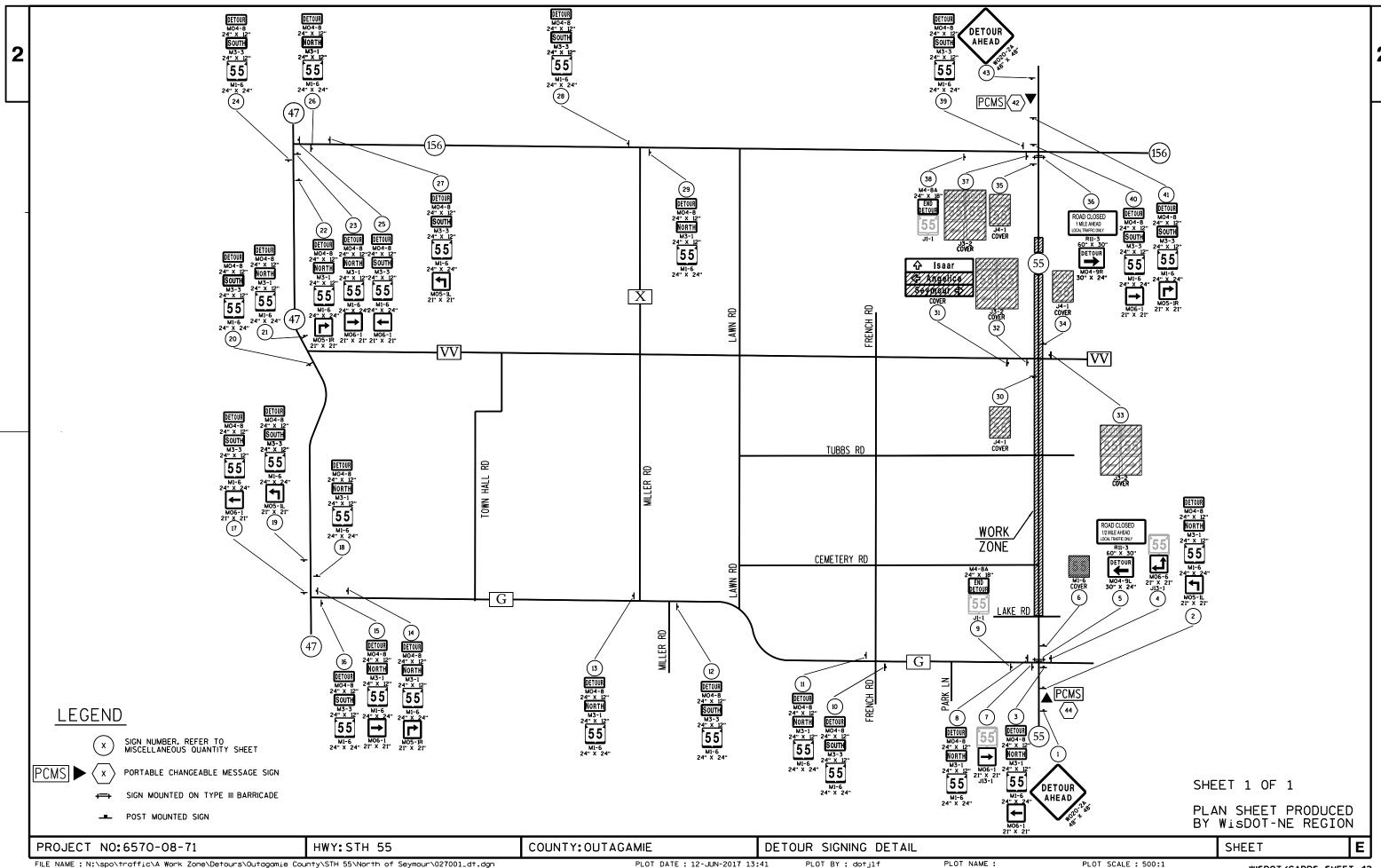
SIGN-REMOVE AND REPLACE SIGN-REMOVE EXISTING						Z
SIGN-PLACE NEW						-
	<u></u>					
	210+00	STH 55				·
					220+(00
	WHEN AN EXISTING STOP SIGN AND SUPPOR	ING NOTES T IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT				
	REMOVED AND NEW SIGNS AND SUPPORTS ERECT ERECTION OF THE NEW SIGN/SUPPORT SHOULD	TLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE ED, THE REMOVAL OF THE EXISTING SIGN-SUPPORT AND BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE E THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN				
	ONE SIGN OF THE SAME LEGEND MISSING IN A					
	WILL BE PAID AS ONE (1) SIGN REMOVAL.	IN, STACKED ON BACK TO BACK,				
•						
						Z
225	+00					
		STH 55			235+00	
				P		<u> </u>
				17		WEST NORTH EAST
				JCT COUNTY V V		JCT COUNTY COUNTY
				VVV		
				JI-1 REMOVE		J1-1 24" X 39" J2-3 REMOVE
PROJECT NO:6570-08-71	HWY:STH 55	COUNTY: OUTAGAMIE	PERMENANT SIGNING			SHEET 26 E
FILE NAME: N:\spo\traffic\SIGNING\Projects\6570-08-71	STH 55 SEYMOUR 54 TO NCL\65700871_SIGNPLAN.dgn	PLOT DATE : 21-MAR-20	17 13:53 PLOT BY : dotets	PLOT NAME :	PLOT SCALE : 100:1	WISDOT/CADDS SHEET 42



			SIGNING NOTES		Z
		ERECTED THE WORK SHALL BE! REMOVED AND NEW SIGNS AND ERECTION OF THE NEW SIGN'S SHALL A NEW SIGN'SUPPORT BI ONE SIGN OF THE SAME LECEN WOOD POSTS SIZES, FOR T' DETERMINED IN THE FIELD.	YPE II SIGNING, ARE ESTIMATED LENGTHS AND THE NG ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE	ORTS THAT ARE TO BE SIGN/SUPPORT AND SIBLE. IN NO CASE NOT BE MORE THAN CACTUAL LENGTH WILL BE	
			MOUNTED TOGETHER, STACKED OR BACK TO BACK,		
270+00					
		275+00			
					Z
SIGN-REMOVE AND REPLACE					
SIGN-REMOVE EXISTING		PASSING ZONE		STOP RI-1	
SIGN-PLACE NEW		W14-3 48" X 36"		30" x 30" (41)	
		40		(41)	
	290+00				300+00
		STH 55			
				42	
				W1-7 48" X 24"	
				۷۵ ۸ ۲۵	
PROJECT NO:6570-08-71	HWY:STH 55	COUNTY: OUTAGAMIE	PERMENANT SIGNING		SHEET 20 E
FILE NAME: N:\spo\traffic\SIGNING\Projects\6570-08-71				PLOT NAME: PLOT SCALE: 100:1	WISDOT/CADDS SHEET 4

					7
					2
					-
			1		
					315+00
		STH 55	310+00		
	305+00		/		
	GT01710 107		/		
	SIGNING NOTE WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR				
	REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REI ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS	MOVAL OF THE EXISTING SIGN/SUPPORT AND CONCURRENTLY AS POSSIBLE. IN NO CASE			
	SHALL A NEW SIGN-SUPPORT BE DOWN FOR MORE THAN 24 I ONE SIGN OF THE SAME LEGEND MISSING IN A ROW. WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIN				
	DETERMINED IN THE FIELD. THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3)) DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.	ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE			
	MULTIPLE TYPE II SIGNS MOUNTED TOGETHER. STACKEL WILL BE PAID AS ONE (1) SIGN REMOVAL.	D OR BACK TO BACK.			
·					
					7
SIGN-REMOVE AND REPLACE		W1-7 48" X 24"			
31GN-REMOVE AND REPLACE		44			
SIGN-REMOVE EXISTING		\			
SIGN-PLACE NEW					
		\			
			325+00		
	320+00		STH 55		
		ANGLING			
		~ (43) RB	45)		
		NO PASSING ZONE	(STOP)		
			R1-1 30" X 30"		
		48" X 36"	30 A 30		
		1	1		T
PROJECT NO:6570-08-71 FILE NAME: N:\spo\traffic\SIGNING\Projects\6570-08-7	HWY: STH 55	COUNTY: OUTAGAMIE PLOT DATE: 21-MAR-	PERMENANT SIGNING	NAME: PLOT SCALE: 100:1	SHEET 29
FILE NAME : N:\Spo\TrdTTIC\SIGNING\Projects\65(0-08-6	1 317 33 SEIMUUR 34 IU NUL/65(UU8(1_SIGNPLAN.dgn	PLUI DATE : 21-MAR-	2017 13:53 PLOT BY: dotets PLOT	NAME . PLUI SCALE : 100:1	WISDOT/CADDS SHEET 42





09/12/2017 12:23:50		l
Page 3	3	

Estimate Of Quantities

6570-08-71
1.000
1.000

Special 01. Grading Shaping Finishing Driveway Culvert EACH Extensions

3

0150

3|

REMOVING SMALL PIPE CULVERTS

			203. 0100	
		-		PIPE SIZE/
CATEGORY	STATI ON	LOCATI ON	EACH	TYPE
0010	125+53	STH 55	1	68"X43"/CMCP
	130+20	Dri veway	1	18"/CMCP
	167+39	STH 55	1	68"X43"/CMCP
	200+07	STH 55	1	68"X43"/CMCP
	213+07	STH 55	1	68"X43"/CMCP
	225+56	STH 55	1	68"X43"/CMCP
		ΤΟΤΔΙ	6	

REMOVING ASPHALTIC SURFACE MILLING BUTT JOINTS

		204. 0115
	LOCATI ON	
CATEGORY	FROM	SY
0010	BEGINNING OF PROJECT	8
	B-44-0180 SOUTH END	9
	B-44-0180 NORTH END	9
	CEMETERY RD	5
	GARDNER RD	6
	TUBBS RD	6
	CTH VV	13
	CI CERO RD	5
	ANGLI NG RD	7
	SHADY RD	14
	END OF PROJECT	11
	ASPHALTIC DRIVEWAYS	102

TOTAL

196

REMOVING ASPHALTIC SURFACE MILLING

TOTAL

					204. 0120	
	STA	ATI ON	LOCATI	ON		=
CATEGORY	FROM	TO	FROM	T0	SY	COMMENTS
0010	115+00	134+97	BEGINNING OF PROJECT	CEMETERY RD	8, 432	
	134+97	163+00	CEMETERY RD	GARDNER RD	10, 736	
	163+00	197+00	GARDNER RD	TUBBS RD	12, 512	
	197+00	250+00	TUBBS RD	CTH VV	19, 362	
	250+00	297+00	CTH VV	CI CERO RD	15, 667	
	297+00	321+00	CI CERO RD	ANGLI NG RD	8, 694	
	321+00	346+00	ANGLI NG RD	SHADY RD	9, 039	
	346+00	352+05	SHADY RD	END OF PROJECT	3, 438	
	115+00	352+05	BEGINNING OF PROJECT	END OF PROJECT	520	ASPHALTI C DRI VEWAYS

88, 399

REMOVING GUARDRAIL

	ST	ATI ON		204. 0165	
CATEGORY	FROM	TO	LOCATI ON	LF	COMMENTS
0010	133+07	135+07	STH 55	200	BLACK CREEK, NW QUAD
	133+06	134+56	STH 55	150	BLACK CREEK, NE QUAD
	130+75	132+35	STH 55	160	BLACK CREEK, SW QUAD
	130+52	132+36	STH 55	184	BLACK CREEK, SE QUAD
	305+75	308+75	STH 55	325	N. OF CICERO RD, RT
	335+75	339+90	STH 55	310	N. OF ANGLING RD, RT
	335+75	339+90	STH 55	310	N. OF ANGLING RD, LT

TOTAL 1, 639

PROJECT NO: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAMLE MISCELLANEOUS QUANTITIES

FILE NAME : N:\PDS\...\030200_mq.pptx PLOT DATE : July 6, 2017 PLOT BY : VERHAGEN, TIM PLOT NAME : PLO

SHEET:

PLOT SCALE : 1:1

EARTHWORK SUMMARY

CATEGORY 0010

		205.0100	***	****	****	***	***	
		Common Excavation	Available	Unexpanded	Expanded	Mass Ordinate	Waste	
From/To Station	Location	(1)	Material	Fill	Fill	+/-		
		****Cut (2)	(5)		(13)	(14)		
		CY	CY	CY	CY	CY	CY	Comment:
130+45 - 135+55	STH 55	**** 42	42	77	115	-73	0	****BEAMGUARD
305+23 - 309+65	STH 55	**** 30	30	27	41	-10	0	****BEAMGUARD
334+96 - 340+57	STH 55	**** 110	110	6	9	102	102	****BEAMGUARD
	SUBTOTAL	**** 183	182	110	165	19	102	

^{****} FOR INFORMATION ONLY, COMMON EXCAVATION 205.0100 IS INCLUDED AND PAID FOR UNDER ITEMS BARRIER SYSTEM GRADING SHAPING FINISHING 614.0010 AND GRADING SHAPING FINISHING DRIVEWAY CULVERT EXTENSIONS SPV.0060.01

Notes:

- (1) Common Excavation is the sum of the Cut and EBS Excavation. Item number 205.0100
- (2) Salvaged/Unsuable Pavement Material is included in Cut.

PROJECT TOTALS

- (5) Available Material = Cut Salvaged/Unusuable Pavement Material
- (13) Expanded Fill Factor = 1.5
- (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.

FROST HEAVE SUMMARY						
			COMMON EXCAVATION 205.0100	BACKFILL GRANULAR GRADE 2 209.2500		
CATEGORY	STATI ON	LOCATI ON	CY	TON		COMMENTS
						SEE CONSTRUCTION DETAIL
0010	225+56	STH 55, RT	682	1086	FROST	HEAVE REPAIR AREA STA 225+56
		SUBTOTALS	682	1086		
		PROJECT TOTAL	682	1, 086		

PROJECT NO: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAMLE MISCELLANEOUS QUANTITIES SHEET: E

FILE NAME: N:\PDS\...\030200_mq.pptx PLOT BY: VERHAGEN, TIM PLOT NAME: PLOT NAME: PLOT SCALE: 1:1

BASE AGGREGATE SUMMARY

BASE AGGREGATE BASE AGGREGATE

			DASE AGGREGATE			
			DENSE 3/4"		WATER	
			305. 0110	305. 0120	624. 0100	_
STATI ON						
FROM	TO	LOCATI ON	TON	TON	MGAL	COMMENTS
115+00	134+97	STH 55, RT	115	-	-	SHOULDER
115+00	134+97	STH 55, LT	115	-	-	SHOULDER
134+97	280+42	STH 55, RT	1, 863	-	-	SHOULDER
134+97	280+42	STH 55, LT	1, 863	-	-	SHOULDER
280+42	313+22	STH 55, RT	274	-	-	SHOULDER
280+42	313+22	STH 55, LT	274	=	-	SHOULDER
313+22	349+55	STH 55, RT	303	-	-	SHOULDER
313+22	349+55	STH 55, LT	303	-	-	SHOULDER
295+01	300+12	WEDGI NG	17	-	-	EXTRA SHOULDER GRAVEL FOR WEDGE
-	-	DRI VEWAYS	61	-	-	
130+55	134+07	STH 55, RT	-	-	-	SHOULDERS AT BEAMGUARD
131+31	134+99	STH 55, LT	-	-	-	SHOULDERS AT BEAMGUARD
305+88	308+64	STH 55, RT	-	-	-	SHOULDERS AT BEAMGUARD
335+97	339+08	STH 55, RT	-	-	-	SHOULDERS AT BEAMGUARD
336+85	339+59	STH 55, LT	-	-	-	SHOULDERS AT BEAMGUARD
125+53	213+07	CULVERT REPLACEMENTS	-	946	-	CULVERT REPLACEMENTS
225+56	-	FROST HEAVE	-	394	-	FROST HEAVE
		SUBTOTALS	5, 186	1, 340	0	
	FROM 115+00 115+00 134+97 134+97 280+42 280+42 313+22 313+22 295+01 130+55 131+31 305+88 335+97 336+85 125+53	115+00 134+97 115+00 134+97 134+97 280+42 134+97 280+42 134+97 280+42 280+42 313+22 280+42 313+22 313+22 349+55 295+01 300+12 - - 130+55 134+07 131+31 134+99 305+88 308+64 335+97 339+08 336+85 339+59 125+53 213+07	FROM TO LOCATION 115+00 134+97 STH 55, RT 115+00 134+97 STH 55, LT 134+97 280+42 STH 55, RT 134+97 280+42 STH 55, LT 280+42 313+22 STH 55, RT 280+42 313+22 STH 55, RT 313+22 349+55 STH 55, RT 313+22 349+55 STH 55, LT 295+01 300+12 WEDGING - - DRI VEWAYS 130+55 134+07 STH 55, RT 131+31 134+99 STH 55, LT 305+88 308+64 STH 55, RT 335+97 339+08 STH 55, RT 336+85 339+59 STH 55, LT 125+53 213+07 CULVERT REPLACEMENTS 225+56 - FROST HEAVE	STATI ON TON LOCATI ON TON	STATI ∪N DENSE 3/4" 305.0110 DENSE 1-1/4" 305.0120 STATI ∪N TON TON TROM TO LOCATI ON TON TON 115+00 134+97 STH 55, RT 115 - 134+97 280+42 STH 55, RT 1,863 - 134+97 280+42 STH 55, LT 1,863 - 280+42 313+22 STH 55, RT 274 - 280+42 313+22 STH 55, LT 274 - 280+42 313+22 STH 55, RT 303 - 313+22 349+55 STH 55, RT 303 - 295+01 300+12 WEDGING 17 - - DRI VEWAYS 61 - 130+55 134+07 STH 55, RT - - 131+31 134+99 STH 55, RT - - 305+88 308+64 STH 55, RT - -	DENSE 3/4" DENSE 1-1/4" WATER 305.0110 DENSE 1-1/4" WATER 624.0100 STATUR TON TON MCAL

5, 186

PREPARE FOUNDATION FOR ASPHALTIC PAVING

	STA	TI ON		211. 0100
CATEGORY	FROM	ТО	LOCATI ON	LS
0010	115+00	352+05	STH 55	1
		_	TOTAL	1

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

0

1, 340

50

50

				211.0400
	STA	ATI ON		
CATEGORY	FROM	TO	LOCATI ON	STA
0010	134+97	143+78	STH 55	18
			TOTAL	18

SHAPING SHOULDERS

	CITE A	TT ON		305. 0500
	STA	TI ON		
CATEGORY	FROM	TO	LOCATI ON	STA
0010	115+00	352+05	STH 55, LT	238
	115+00	352+05	STH 55, RT	238
			TOTAL	476

PROJECT NO: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAMI E SHEET: Ε MISCELLANEOUS QUANTITIES

UNDI STRI BUTED

PROJECT TOTAL

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				TACK COAT 455.0605	HMA PAVEMENT 3 LT 58-28 S 460.5223	HMA PAVEMENT 4 LT 58-28 S 460.5224	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 465.0120	
		TI ON						
CATEGORY	FROM	T0	LOCATI ON	GAL	TON	TON	TON	COMMENTS
0010	115+00	134+97	STH 55	1, 012	1, 128	812	-	MAI NLI NE/SHOULDERS
	134+97	143+28	STH 55	421	469	338	-	MAI NLI NE/SHOULDERS
	143+28	352+05	STH 55	8, 351	9, 308	6, 698	-	MAI NLI NE/SHOULDERS
	130+05	134+57	STH 55, RT	20	22	16	-	SHOULDERS AT BEAMGUARD
	130+81	135+49	STH 55, LT	17	18	13	-	SHOULDERS AT BEAMGUARD
	305+38	309+14	STH 55, RT	16	18	13	-	SHOULDERS AT BEAMGUARD
	335+57	339+08	STH 55, RT	12	14	10	-	SHOULDERS AT BEAMGUARD
	336+45	339+99	STH 55, LT	11	13	9	-	SHOULDERS AT BEAMGUARD
	140+00	144+40	STH 55, LT	78	87	63	-	CEMETERY RD/TURN LANES
	163+70	168+20	STH 55, RT	70	78	56	-	GARDNER RD/TURN LANES
	191+77	196+13	STH 55, LT	72	80	57	-	TUBBS RD/TURN LANES
	241+38	246+75	STH 55, RT	101	113	81	-	CTH VV/TURN LANES
	243+98	249+48	STH 55, LT	102	114	82	-	CTH VV/TURN LANES
	297+65	302+03	STH 55, LT	83	93	67	-	CI CERO RD/TURN LANES
	321+30	325+86	STH 55, RT	85	94	68	-	ANGLING RD/TURN LANES
	346+65	352+05	STH 55, RT	100	111	80	-	SHADY RD/TURN LANES
	349+30	352+05	STH 55, LT	71	79	57	-	SHADY RD/TURN LANES
	_	-	STH 55	36	-	-	61	DRI VEWAYS
	-	-	STH 55	-	579	-	-	CULVERT REPLACEMENTS
			TOTAL	10, 657	12, 417	8, 519	61	

Asphaltic Surface Patching 465.0110

CATEGORY	LOCATI ON	TON	COMMENTS
0010	UNDI STRI BUTED	20	TO BE USED TO MAKE MINOR PAVEMENT REPAIRS
	TOTAL	20	

	STAT	ΓΙ ON		REHEATING HMA PAVEMENT LONGITUDINAL JOINT 460.4110.S	ASPHALTIC CENTERLINE RUMBLE STRIP 2-LANE RURAL 465.0475
CATEGORY	FROM	TO	LOCATI ON	LF	LF
0010	115+00	132+20	STH 55	3440	-
0010	133+15	348+75	STH 55	43120	19290
0010	348+75	352+05	STH 55	660	-
			TOTAL	47220	19290

PROJECT NO: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAMLE MISCELLANEOUS QUANTITIES SHEET: E

FILE NAME: N:\PDS\...\030200_mq.pptx PLOT BY: VERHAGEN, TIM PLOT NAME: PLOT SCALE: 1:1

CULVERT PIPE SUMMARY

			CULVERT PIPE CORRUGATED STEEL 18-INCH* 521.0118	RCCEP CLASS III 43"X68" 523.0143	APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH 521.1018	RCCEP ENDWALL 43"X68" 523.0543	MARKERS CULVERT END 633. 5200				
								I NLET	DI SCHARGE	INLET END OF ENDWALL	DISCHARGE END OF ENDWAL
CATEGORY	STATI ON	LOCATI ON	LF	LF	EACH	EACH	EACH	ELEVATI ON	ELEVATI ON	STATIONING / OFFSET	STATIONING / OFFSET
0010	125+53	STH 55	-	56	-	2	2	783. 89	783. 82	125+57. 20 / 36. 00' RT	125+51. 78 / 35. 80' LT
	130+20	Dri veway	100	-	2	-	-	-	-	-	-
	157+78	STH 55	-	-	-	-	-	-	-	-	-
	167+39	STH 55	-	84	-	2	2	803. 15	803. 11	167+80. 00 / 33. 14' LT	167+24. 93 / 50. 33' RT
	200+07	STH 55	-	60	-	2	2	849. 37	849. 13	200+10.00 / 38.00' LT	200+10.00 / 38.00' RT
	213+07	STH 55	-	60	-	2	2	851. 74	851. 70	213+04. 10 / 38. 22' LT	213+05. 53 / 37. 76' RT
	225+56	STH 55	-	60	-	2	2	856. 29	856. 20	225+73. 28 / 35. 62' LT	225+46. 07 / 37. 62' RT
	253+20	STH 55	-	-	-	-	-	-	-	-	-
	258+10	STH 55	-	-	-	-	-	-	-	-	-
	279 + 75	STH 55	-	-	-	-	-	-	-	-	-
	298+50	STH 55	-	-	-	-	=	-	-	-	-
	324 + 75	STH 55	-	-	-	-	-	-	-	-	-
	334+50	STH 55	-	-	-	-	_	-	-	-	-

10

10

*MINIMUM WALL THICKNESS FOR CULVERT PIPE CORRUGATED STEEL EQUALS 0.064 INCHES

320

100

TOTAL

STATI ON		BARRIER SYSTEM GRADING SHAPING FINISHING 614.0010	MGS GUARDRAIL 3 614.2300	MGS GUARDRAIL 3L	MGS THRIE BEAM TRANSITION	MGS GUARDRAIL TERMINAL EAT	****	
				614. 2340	614. 2500	614. 2610	MARKER POSTS	
TO	LOCATI ON	EACH	LF	LF	LF	EACH	EACH	COMMENTS
134+99	STH 55, LT	2	162	-	78	2	2. 00	B- 44- 0180
134+57	STH 55, RT	2	154	-	78	2	2. 00	B- 44- 0180
308+64	STH 55, RT	2	58	113	-	2	2. 00	BOX CULVERT
339+59	STH 55, LT	2	63	113	-	2	2. 00	BOX CULVERT
339+08	STH 55, RT	2	100	113	-	2	2. 00	BOX CULVERT
	TOTAL	10	537	339	156	10	10	
	134+57 308+64 339+59 339+08	134+57 STH 55, RT 308+64 STH 55, RT 339+59 STH 55, LT 339+08 STH 55, RT TOTAL	134+99 STH 55, LT 2 134+57 STH 55, RT 2 308+64 STH 55, RT 2 339+59 STH 55, LT 2 339+08 STH 55, RT 2	134+99 STH 55, LT 2 162 134+57 STH 55, RT 2 154 308+64 STH 55, RT 2 58 339+59 STH 55, LT 2 63 339+08 STH 55, RT 2 100 TOTAL 10 537	134+99 STH 55, LT 2 162 - 134+57 STH 55, RT 2 154 - 308+64 STH 55, RT 2 58 113 339+59 STH 55, LT 2 63 113 339+08 STH 55, RT 2 100 113 TOTAL 10 537 339	134+99 STH 55, LT 2 162 - 78 134+57 STH 55, RT 2 154 - 78 308+64 STH 55, RT 2 58 113 - 339+59 STH 55, LT 2 63 113 - 339+08 STH 55, RT 2 100 113 - TOTAL 10 537 339 156	134+99 STH 55, LT 2 162 - 78 2 134+57 STH 55, RT 2 154 - 78 2 308+64 STH 55, RT 2 58 113 - 2 339+59 STH 55, LT 2 63 113 - 2 339+08 STH 55, RT 2 100 113 - 2 TOTAL 10 537 339 156 10	134+99 STH 55, LT 2 162 - 78 2 2.00 134+57 STH 55, RT 2 154 - 78 2 2.00 308+64 STH 55, RT 2 58 113 - 2 2.00 339+59 STH 55, LT 2 63 113 - 2 2.00 339+08 STH 55, RT 2 100 113 - 2 2.00 TOTAL 10 10

PROJECT NO: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAMLE MISCELLANEOUS QUANTITIES SHEET: E

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			LANDSCAP	ING SUMMARY		
				SALVAGED TOPSOIL 625. 0500	FERTI LI ZER TYPE B 629. 0210	SEEDI NG MI XTURE NO. 30 630.0130
	ST	ATI ON	_			
CATEGORY	FROM	Т0	LOCATI ON	SY	СШТ	LB
0010	125+53	-	STH 55	20	0. 013	0. 36
	130+10	-	STH 55, RT	20	0. 013	0. 36
	130+35	131+20	STH 55, RT	232	0. 146	4. 18
	131+20	132+05	STH 55, RT	78	0.049	1. 40
	131+00	132+00	STH 55, LT	76	0.048	1. 37
	133+50	134+70	STH 55, RT	112	0. 070	2. 01
	133+50	135+50	STH 55, LT	135	0. 085	2. 43
	167+39	-	STH 55	20	0.013	0. 36
	200+07	-	STH 55	20	0.013	0. 36
	213+07	-	STH 55	20	0.013	0. 36
	225+56	-	STH 55	20	0. 013	0. 36
	305+50	306+75	STH 55, RT	46	0. 029	0. 82
	307+70	309+75	STH 55, RT	261	0. 165	4. 70
	335+25	336+75	STH 55, RT	67	0.042	1. 20
	336+25	337+60	STH 55, LT	102	0.064	1.84
	338+25	340+25	STH 55, RT	150	0. 095	2. 70
	338+40	340+60	STH 55, LT	178	0. 112	3. 21
			SUBTOTAL	1, 557	0. 981	28
			UNDI STRI BUTED	389	0. 245	7
			TOTAL	1, 946	1. 23	35

				SI LT FENCE 628. 1504	SILT FENCE MAINTENANCE 628.1520
	STAT	ΓI ON	_		
CATEGORY	FROM	TO	LOCATI ON	LF	LF
0010	130+50	132+50	STH 55, LT	100	25
	130+50	132+50	STH 55, RT	80	20
	133+00	136+00	STH 55. LT	200	50
	133+00	135+00	STH 55, RT	120	30
	305+25	306+50	STH 55, RT	80	20
	307+75	309+75	STH 55, RT	120	30
	336+50	337+50	STH 55, LT	80	20
	335+00	336+75	STH 55, RT	100	25
	338+25	340+50	STH 55, LT	160	40
	338+25	340+00	STH 55, RT	120	30
			SUBTOTAL	1, 160	290
			UNDI STRI BUTED	290	73
			TOTAL	1, 450	363

PROJECT NO: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAME MISCELLANEOUS QUANTITIES SHEET: E

	EROSION	MAT	SUMMARY
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				EROSION MAT CLASS I TYPE B 628. 2004	EROSION MAT URBAN CLASS I TYPE A 628.2006
	STATI ON				
CODV	EDOM	TO	LOCATION	CV	CV

				ULO. LUU4	020. 2000	
	ST	ATI ON	_			
CATEGORY	FROM	Т0	LOCATI ON	SY	SY	COMMENTS
0010	125+53	-	STH 55	20	-	PI PE CROSSI NG
	130+10	-	STH 55, RT	-	20	DRI VEWAY CULVERT
	130+35	131+20	STH 55, RT	-	232	BEAMGUARD, SE QUAD
	131+20	132+05	STH 55, RT	78	-	BEAMGUARD, SE QUAD
	131+00	132+00	STH 55, LT	76	-	BEAMGUARD, SW QUAD
	133+50	134+70	STH 55, RT	112	-	BEAMGUARD, NE QUAD
	133+50	135+50	STH 55, LT	135	-	BEAMGUARD, NW QUAD
	167+39	-	STH 55	20	-	PIPE CROSSING
	200+07	-	STH 55	20	-	PIPE CROSSING
	213+07	-	STH 55	20	-	PIPE CROSSING
	225+56	-	STH 55	20	-	PIPE CROSSING
	305+50	306+75	STH 55, RT	46	-	BEAMGUARD, SOUTH
	307+70	309+75	STH 55, RT	261	-	BEAMGUARD, NORTH
	335+25	336+75	STH 55, RT	67	-	BEAMGUARD, SE QUAD
	336+25	337+60	STH 55, LT	102	-	BEAMGUARD, SW QUAD
	338+25	340+25	STH 55, RT	150	-	BEAMGUARD, NE QUAD
	338+40	340+60	STH 55, LT	178	-	BEAMGUARD, NW QUAD
			SUBTOTAL	1, 304	252	
			UNDI STRI BUTED	327	63	
			TOTAL	1. 631	315	

				TEMPORARY EROS	SION CONTROL		
			TEMPORARY DITCH CHECKS 628.7504	CULVERT PI PE CHECKS 628. 7555	MOBILIZATION EROSION CONTROL 628. 1905	MOBILIZATION EMERGENCY EROSION CONTROL 628.1910	
CATEGORY	STATI ON	LOCATI ON	LF	ЕАСН	EACH	ЕАСН	COMMENTS
0010	125+53	STH 55	10	-	-	-	PI PE CROSSI NG
	130+10	STH 55, RT	-	3	-	-	DRI VEWAY CULVERT
	131+75	STH 55, RT	10	-	-	-	BEAMGUARD
	131+75	STH 55, LT	_	-	-	-	SILT FENCE RELIEF
	132+00	STH 55, RT	-	-	-	-	SILT FENCE RELIEF
	133+50	STH 55, RT	-	-	-	-	SILT FENCE RELIEF
	134+50	STH 55, LT	-	-	-	-	SILT FENCE RELIEF
	167+39	STH 55	-	-	-	-	PIPE CROSSING
	200+07	STH 55	-	-	-	-	PIPE CROSSING
	213+07	STH 55	-	-	-	-	PIPE CROSSING
	225+56	STH 55	-	-	-	-	PI PE CROSSI NG
	305+00 - 310+00	STH 55, RT	20	-	-	-	BEAMGUARD
	335+00 - 340+00	STH 55	40	-	-	-	BEAMGUARD
		SUBTOTAL	80	3	0	0	
		UNDI STRI BUTED	20	1	9	2	
		TOTAL	100	4	9	2	

MISCELLANEOUS QUANTITIES

SHEET:

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FILE NAME: N:\PDS\...\030200_mq.pptx PLOT BY: VERHAGEN, TIM PLOT NAME: PLOT SCALE: 1:1

COUNTY: OUTAGAMI E

HWY: STH 55

PROJECT NO: 6570-08-71

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ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

l _⊢				Т	1	T	1	ı	<u> </u>		
					637. 2210				638. 2602		
					SI GNS	SI GNS	POSTS	POSTS	REMOVI NG	REMOVI NG	
					TYPE II	TYPE II	WOOD	WOOD	SI GNS	SMALL	
					REFLECTI VE	REFLECTI VE	4x6x14	4x6x16	TYPE II	SIGN	
	SI GN		SIGN		TYPE H	TYPE F				SUPPORTS	
	NO.	LOCATI ON	CODE	WXH	S. F.	S. F.	EACH	EACH	EACH	EACH	REMARKS
	1	LAKE RD	R1-1	30" X 30"	5. 18		1		1	1	
	2	BRONSON RD	R1-1	30" X 30"	5. 18		1		1	1	
	3	STH 55 N. OF LAKE RD	R2-1	24" X 30"	5. 00		1		1	1	45 MPH
	4	II .	R2-1	24" X 30"	5. 00		1		1	1	35 MPH
	5	II .	W3-5	36" X 36"		9. 00		1	1	1	45 MPH, REMOVE R2-1
	6	II.	J4- 1	24" X 36"	6. 00			1	1	1	SEE PLAN SHEET
	7	II .	D2-2	78" X 24"	13. 00			2	1	2	SEE SIGN DETAILS, REMOVE D2-3
	8	п	R2-1	24" X 30"	5. 00		1		1	1	55 MPH
	9	п	R2-1	24" X 30"	5. 00		1		1	1	45 MPH
	10	H .	I 55- 56	30" X 36"	7. 50			1	1	1	MVP KIDS, SEE PLAN SHEET
	11	н	W3-5	36" X 36"		9. 00		1	1	1	45 MPH
	12	н	I 2-3	66" X 24"	11. 00		2		1	2	SEYMOUR POP, SEE SIGN DETAIL
	13	CEMETERY RD	R1-1	30" X 30"	5. 18		1		1	1	
	14	GARDNER RD	R1-1	30" X 30"	5. 18		1		1	1	
	15A	STH 55, S. OF TUBBS RD	W14-3	48" X 36"		6. 00		1	1	1	
	15	TUBBS RD	R1-1	30" X 30"	5. 18		1		1	1	
	16	п	W1 - 7						1	1	
	17	STH 55 N. OF TUBBS RD	J1-1						1	1	
	17A	п	W14-3	48" X 36"		6. 00		1	1	1	
	18	II .	J1-1	24" X 39"	6. 50			1	1	1	SEE PLAN SHEET, REMOVE J2-3
	19	п	D2-2						1	2	·
	20	п	I 55- 56	30" X 36"	7. 50			1	1	1	MVP KIDS, SEE PLAN SHEET
	21	п	D1-3						1	2	·
	22	п	R2-1	24" X 30"	5. 00		1		1	1	55 MPH, REMOVE J4-1
	23	п	J4-1	24" X 36"	6. 00			1			SEE PLAN SHEET
	24	п	J13-1	24" X 45"	7. 50			1	1	1	SEE PLAN SHEET, REMOVE J3-2
	25	CTH VV	J13-1	24" X 45"	7. 50			1	1	1	SEE PLAN SHEET, REMOVE J3-2
	26	n .	R1-1	36" X 36"	7. 46			1	1	1	,
	27	n .	W4-4P	24" X 12"		2. 00					MOUNT BELOW SIGN 26
	28	n .	R1-1	36" X 36"	7. 46			1	1	1	-
	29	n .	W4-4P	24" X 12"		2. 00					MOUNT BELOW SIGN 28
	30	п	J13-1	24" X 45"	7. 50			1	1	1	SEE PLAN SHEET, REMOVE J3-2
	•	PAGE SUBTOTALS	-		145. 82	34. 00	12	16	29	33	

PROJECT NO: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET: **E**

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

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

									-	
				637. 2210	637. 2230	634. 0614	634. 0616	638. 2602	638. 3000	
				SI GNS	SI GNS	POSTS	POSTS	REMOVI NG	REMOVI NG	
				TYPE II	TYPE II	WOOD	WOOD	SI GNS	SMALL	
				REFLECTI VE	REFLECTI VE	4x6x14	4x6x16	TYPE II	SI GN	
SI GN		SI GN		ТҮРЕ Н	TYPE F				SUPPORTS	
NO.	LOCATI ON	CODE	WXH	S. F.	S. F.	EACH	EACH	EACH	EACH	REMARKS
31	STH 55 N. OF CTH VV	J13-1	24" X 45"	7. 50			1	1	1	SEE PLAN SHEET, REMOVE J3-2
32	II .	J4- 1	24" X 36"	6. 00			1			SEE PLAN SHEET
33	II .	R2-1	24" X 30"	5. 00		1		1	1	55 MPH
34	п	J4- 1						1	1	
35	II	D1-2						1	2	
36	п	I 55- 56	30" X 36"	7. 50			1	1	1	I SAAR TRAILRIDERS SNOW-MO CLUB, SEE PLAN SHEET
37	п	D2-2						1	2	
38	II	J1-1	24" X 39"	6. 50			1			SEE PLAN SHEET
39	п	J1-1						1	1	
40	п	W14-3	48" X 36"		6. 00		1	1	1	
41	CI CERO RD	R1-1	30" X 30"	5. 18		1		1	1	
42	п	W1 - 7						1	1	
43	STH 55 N. OF CICERO RD	W14-3	48" X 36"		6. 00		1	1	1	
44	ANGLI NG RD	W1 - 7						1	1	
45	п	R1- 1	30" X 30"	5. 18		1		1	1	
46	STH 55 N. OF ANGLING RD	I 2- 2	78" X 15"	8. 13		2		1	2	OUTAGAMIE CO, SEE SIGN DETAILS
47	11	I 55- 56	30" X 36"	7. 50			1	1	1	I SAAR TRAILRIDERS SNOW-MO CLUB, SEE PLAN SHEET
48	SHADY RD	R1- 1	30" X 30"	5. 18		1		1	1	
49	11	R1-1	30" X 30"	5. 18		1		1	1	
	PAGE SUBTOTALS			68. 85	12. 00	7	7	17	20	

PAGE SUBTOTALS

214.67 46.00 19 23 46 **53** PROJECT TOTALS

HWY: STH 55 Е SHEET: PROJECT NO: 6570-08-71 COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES

PLOT DATE : _ PLOT NAME : _____ PLOT SCALE : 1:1

CATEGORY 0010	LLATI ON 20 50 1,000 - 5 100 See SDD 15D28-3 OPERATI ONS 15 - - 1 8 120 See SDD 15C12-05 10 25 250 - 5 50						
	APPROX.			RUMBLE STRIPS	SI	GNS	
	SERVI CE						
	PERI OD	NO. IN			NO. IN		
LOCATI ON	DAYS	SERVI CE	DAYS	LS	SERVI CE	DAYS	REMARKS
MAI NLI NE/SI DE ROADS	45	-	-	-	17	765	See SDD 15C4
BEAM GUARD REMOVAL/INSTALLATION	20	50	1,000	-	5	100	See SDD 15D28-3
ASPHALTIC PAVING & MILLING OPERATIONS	15	-	-	1	8	120	See SDD 15C12-05
UNDI STRI BUTED	10	25	250	-	8 12 5 5		
TOTALS			1, 250	1		1, 035	

CATEGORY 0010

TRAFFI C CONTROL 6570-08-71
643. 0100
LOCATI ON EACH
PROJECT 1
TOTAL 1

CATEGORY 0010	
	TRAFFI C CONTROL DETOUR 6570-08-71
	643. 2000
LOCATI ON	EACH
PROJECT	1
TOTAL	1

PROJECT NO: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET: E

FILE NAME: N:\PDS\...\030200_mq.pptx PLOT BY: VERHAGEN, TIM PLOT NAME: PLOT NAME: PLOT SCALE: 1:1

TRAFFIC CONTROL DETOUR SIGN SUMMARY

STOR STORT						ı		T		T T		T	
SLOR LOCATION LO							643. 3000	643. 0420	643. 0705	643. 1050		643. 0920	1
SIGN							DETOUR	BARRI CADES	WARNI NG	SI GNS			1
SIGN NO. DICATION DICATIO					NUMBER	SERVI CE	SI GNS	TYPE III	LI GHTS	PORTABLE		SI GNS	1
NO. 16/4710 NO. 16/4710 NO. 16/4710 NO. 16/4714 NO. 16/4710 NO. 16/4714 NO. 16/471					IN	PERI OD			TYPE A	CHANGEABLE	NO OF	TYPE II	1
1 STH 55, PLACE JUST SOUTH OF DEPOT ST INTESECTION MD -20 48 24 742 1 10 10 10 10 10 10 10	SI GN		SI GN	SIZE	SERVI CE	10				MESSAGE	CYCLES		1
2 STH SS. PLACE JUST SOUTH OF ROBBINS ST INTERSECTION M 9+1 24*X12" 1 10 10 10 10 10 10 10	NO.	LOCATI ON	CODE	WXH		DAYS	DAYS	DAYS	DAYS	DAYS		EACH	REMARKS
	1	STH 55, PLACE JUST NORTH OF DEPOT ST INTERSECTION	WO 20-2A	48"X48"	1	10	10						
STR 55, PLACE SO MORTH OF CHIE GINTERSECTION MI + A	2	STH 55, PLACE JUST SOUTH OF ROBBINS ST INTERSECTION	MO 4-8	24"X12"	1	10	10						
STR 55, PLACE SO MORTH OF CHIE GINTERSECTION MI + A		"	M 3-1	24"X12"	1	10	10						
3 STIL 55, PLACE 50' SOUTH OF CTH G. INTERSECTION MP 48 21'X12' 1 10 10 10		n .			1	10							55
S		U U			1	10							
N 3 1 24*N2* 1 10 10 10 55 10 10 55 10 10	3	STH 55. PLACE 50' SOUTH OF CTH G INTERSECTION			1	10							
M B 24*X24* 1 10 10 10 10 155		"			1	_							
### CTR G. AT STW 55 INTERSECTION, MIDITY EXISTING J13-1 SIGN AS SHOWN ### Mo -6 -6 21*X21* 1 10 10 10 10 10 10 1		n .			1	_							55
4 CIR G, AI SIR 55 INTERSECTION, MODIF ENISTINC JIS1 SIGN AS SHOWN 5 STI 55, PLACE IN SMOULDEP PARKIN LANE AT CIT IC INTERSECTION ON NORTH LEG 6 STR 55, N. OF CIR G INTERSECTION, COVER EXISTING MI-6 SIGN 7 CIR G, AI SIR 55, INTERSECTION, COVER EXISTING MI-6 SIGN 8 CIR G, PLACE 100 W OF STR 51 STRESSECTION MODE AND AND A STRESS INTERSECTION, MODE AND A STRESS INTERSECTION, MODE AND A STRESS INTERSECTION, MODE AND A STRESS INTERSECTION MODE AND A STRESS INTERSECT		"			1								
STI 55, PLACE IN SIGNILIDEPRARKING LAKE AT CIT G INTERSECTION ON NORTH LEE R 11-3	4	CTH C AT STH 55 INTERSECTION MODIFY FXISTING 113-1 SIGN AS SHOWN			1								
M1-6 STH 55 N. OF CTH G INTERSECTION. COVER EXISTING MI-6 SIGN I I O OVER EXISTING MI-6 SIGN I I OVER EXISTING MI-6 SIGN M0-6 6 21° X21° I I I I I I I I I I I I I I I I I I	_				1	_		15	30				1/2 MILE AHEAD
STILES, N. OF CTH G INTERSECTION, COVER EXISTING Mile SIGN No. 66 21"X21" 1 10 10 10 10 10 10 1	9	SIII 33, TENEL IN SHOULDEN I AMALING ENITE AT CIT G INTERSECTION ON NORTH EEG						10	30				17 & WILL AILEAD
The content of the	6	STH 55 N OF CTH C INTERSECTION COVER FYISTING MILE SIGN	WIO 4- 3L	30 A24	1	10	10				1	1	COVED ENTIPE SICN
R			MO 6 6	91"V91"	1	10	10			+	<u> </u>	1	COVER ENTIRE SIGN
M3-1 24"X12" 1 10 10 55					1								
M 1-6 24*724* 1 10 10 10 55	8	CIR G, FLACE 100 W. OF SIR 33 INTERSECTION			1								
9		"			1 1					+			F.E.
CTH G, PLACE 100' E. OF FRENCH RD INTERSECTION MD 4-8 24"X12" 1 10 10 10 10 10 10 10		CTH C. DIACE ON EVICTING 14 1 CLON AC CHOIM			1	_							55
M 3-3 24"X12" 1 10 10					1					 		1	
M 1-6	10	CIH G, PLACE 100° E. OF FRENCH RD INTERSECTION			1								
11		<u>"</u>			1	_							
M 3-3 24"X12" 1 10 10 10 55		OTHER CONTROL AND THE OF THE PROPERTY OF			1	_							55
M 1-6 24"X24" 1 10 10 10 55	11	CTH G, PLACE 100' W. OF FRENCH RD INTERSECTION				_							
12					1								
M 3-3 24"X12" 1 10 10 10 55		"			1								55
M 1-6 24"X24" 1 10 10 10 55	12	CTH G, PLACE 100' E. OF MILLER RD INTERSECTION			1								
13		"			1	_							
M 3-1 24"X12" 1 10 10 10 55 14 10 10 10 10 10 10 10		"			1								55
M 1-6 24"X24" 1 10 10 10 55	13	CTH G, PLACE 100' W. OF MILLER RD INTERSECTION			1								
14		"			1	10							
M 3-1 24"X12" 1 10 10 55 10 10 55 15 CTH G, PLACE 100' W. OF STH 47 INTERSECTION M0 4-8 24"X24" 1 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10		"			1	10	_						55
M 1-6 24"X24" 1 10 10 10 55 15 15 15	14	CTH G, PLACE 500' E. OF STH 47 INTERSECTION	MO 4-8		1	10	10						
MO 5-1R 21"X21" 1 10 10		"	M 3-1		1	10	10						
15 CTH G, PLACE RIGHT OF EXISTING J13-1 AT STH 47 INTERSECTION M0 4-8 24"X12" 1 10 10 10		"	M 1-6	24"X24"	1	10	10						55
M 3-1 24"X12" 1 10 10 0 55 M 1-6 24"X24" 1 10 10 55 M 6-1 21"X21" 1 10 10 RIGHT 16 CTH G, PLACE 100' W. OF STH 47 INTERSECTION MO 4-8 24"X12" 1 10		u u	MO 5-1R	21"X21"	1	10	10						
M 1-6 24"X24" 1 10 10 55 55 10 16 16 17 17 17 17 17 17	15	CTH G, PLACE RIGHT OF EXISTING J13-1 AT STH 47 INTERSECTION	MO 4-8	24"X12"	1	10	10						
M 1-6 24"X24" 1 10 10 55 55 10 16 16 17 17 17 17 17 17		"			1	10	10						
M0 6-1 21"X21" 1 10 10 RIGHT 16 CTH G, PLACE 100' W. 0F STH 47 INTERSECTION M0 4-8 24"X12" 1 10 10 10		"	M 1-6	24"X24"	1	10	10						55
16 CTH G, PLACE 100' W. 0F STH 47 INTERSECTION M0 4-8 24"X12" 1 10 10 10 " M 3-3 24"X12" 1 10 10 10 " M 1-6 24"X24" 1 10 10 10 55		· ·			1								
" M 3-3 24"X12" 1 10 10 " M 1-6 24"X24" 1 10 10	16	CTH G, PLACE 100' W. OF STH 47 INTERSECTION			1								-
" M 1-6 24"X24" 1 10 10 55		n			1								
		n .			1								55
PAGE SUBTULALS 40 400 15 30 0 1		PAGE SUBTOTALS			40		400	15	30	0		1	

PLAN SHEET PRODUCED BY WisDOT - NE REGION

PROJECT NUMBER: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET **E**

3

TRAFFIC CONTROL DETOUR SIGN SUMMARY

				NUMBER I N	APPROX. SERVI CE PERI OD	643. 3000 DETOUR SI GNS	643. 0420 BARRI CADES TYPE III	643. 0705 WARNI NG LI GHTS TYPE A	643. 1050 SI GNS PORTABLE CHANGEABLE	NO OF	643. 0920 COVERI NG SI GNS TYPE II	
SIGN		SI GN	SIZE	SERVI CE	10				MESSAGE	CYCLES		
NO.	LOCATION CONTROL OF THE CONTROL OF T	CODE	WXH		DAYS	DAYS	DAYS	DAYS	DAYS		EACH	REMARKS
17	STH 47, AT CTH G INTERSECTION, PLACE RIGHT OF EXISTING J13-1 SIGN	MO 4-8	24"X12"	1	10	10					 	
		M 3-3	24"X12"	1	10	10						
	"	M 1-6	24"X24"	1	10	10					+	55 LEDE
10	CTH 47 DIACE 1001 N. OF CTH C. INTERCECTION	MO 6-1	21"X21" 24"X12"	1	10 10	10 10	-				+	LEFT
18	STH 47, PLACE 100' N. OF CTH G INTERSECTION	MO 4-8	24"X12" 24"X12"	1		10					+	
	"	M 3-1 M 1-6		1	10 10	10					+	
10	STH 47, PLACE 750' N. OF CTH G INTERSECTION	MO 4-8	24"X24" 24"X12"	1	10	10					+	55
19	SIH 47, PLACE 730 N. OF CIH G INTERSECTION	M 3-3	24 X12 24"X12"	1		10					+	
	п	M 1-6	24 X12 24"X24"	1	10 10	10					+	55
	п	MO 5-1L	21"X21"	1	10	10					+	
20	STH 47, PLACE 100' S. OF CTH VV INTERSECTION	MO 4-8	24"X12"	1	10	10					+ +	
20	III 47, TEACE 100 S. OF CHI VV INTERSECTION	M 3-3	24"X12"	1	10	10					+ +	
	п	M 1-6	24"X24"	1	10	10						55
21	STH 47, PLACE 100' N. OF CTH VV INTERSECTION	MO 4-8	24"X12"	1	10	10					 	- 33
~1	" "	M 3-1	24"X12"	1	10	10						
	ıı e	M 1-6	24"X24"	1	10	10						55
22	STH 47, PLACE 750' S. OF STH 156 INTERSECTION	MO 4-8	24"X12"	1	10	10						
22	"	M 3-1	24"X12"	1	10	10						
	п	M 1-6	24"X24"	1	10	10						55
	п	MO 5-1R	21"X21"	1	10	10						
23	STH 47, PLACE RIGHT OF EXISTING J3-2 SIGN AT STH 156 INTERSECTION	MO 4-8	24"X12"	1	10	10						
	II .	М 3-1	24"X12"	1	10	10						
	II .	M 1-6	24"X24"	1	10	10						55
	II .	MO 6-1	21"X21"	1	10	10						LEFT
24	STH 47, PLACE 100' S. OF STH 156 INTERSECTION	MO 4-8	24"X12"	1	10	10						
	"	М 3-3	24"X12"	1	10	10						
	п	М 1-6	24"X24"	1	10	10						55
25	STH 156, PLACE RIGHT OF EXISTING J3-3 SIGN AT STH 47 INTERSECTION	MO 4-8	24"X12"	1	10	10						
	II .	М 3-3	24"X12"	1	10	10						
	II .	М 1-6	24"X24"	1	10	10						55
	"	MO 6-1	21"X21"	1	10	10						LEFT
26	STH 156, PLACE 100' E. OF STH 47 INTERSECTION	MO 4-8	24"X12"	1	10	10						
	"	M 3-1	24"X12"	1	10	10						
	"	M 1-6	24"X24"	1	10	10					\bot	55
27	STH 156, PLACE 750' E. OF STH 47 INTERSECTION	MO 4-8	24"X12"	1	10	10						
	"	M 3-3	24"X12"	1	10	10					 	
	п	M 1-6	24"X24"	1	10	10					 	55
	COUNTY AND DE ADDITION OF COUNTY AND ADDITION	MO 5-1L	21"X21"	1	10	10					+ +	
28	STH 156, PLACE 100' W. OF CTH X INTERSECTION	MO 4-8	24"X12"	1	10	10						
	"	M 3-3	24"X12"	1	10	10	1				+	
	PAGE SUBTOTALS	M 1-6	24"X24"	42	10	10 420	0	0	0		0	55

PLAN SHEET PRODUCED BY WisDOT - NE REGION

PROJECT NUMBER: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET **E**

TRAFFIC CONTROL DETOUR SIGN SUMMARY

						643. 3000	643. 0420	643. 0705	643. 1050		643. 0920	
					APPROX.	DETOUR	BARRI CADES	WARNI NG	SI GNS		COVERI NG	
				NUMBER	SERVI CE	SI GNS	TYPE III	LI GHTS	PORTABLE		SI GNS	
				ΙN	PERI OD			TYPE A	CHANGEABLE	NO OF	TYPE II	
I GN		SIGN	SI ZE	SERVI CE	10				MESSAGE	CYCLES		
NO.	LOCATI ON	CODE	WXH		DAYS	DAYS	DAYS	DAYS	DAYS		EACH	REMARKS
29	STH 156, PLACE 100' E. OF CTH X INTERSECTION	MO 4-8	24"X12"	1	10	10						
	п	М 3-1	24"X12"	1	10	10						
	п	М 1-6	24"X24"	1	10	10						55
30	STH 55, S. OF CTH VV, COVER EXISTING J4-1 AS SHOWN									1	1	COVER "SOUTH 55"
31	CTH VV, W. OF STH 55, COVER EXISTING D1-3 AS SHOWN									1	1	COVER "ANGELI CA- SEYMO
32	CTH VV, W. OF STH 55, COVER EXISTING J3-2 AS SHOWN									1	1	COVER "N 55 LT-S 55
33	CTH VV, E. OF STH 55, COVER EXISTING J3-2 AS SHOWN									1	1	COVER "S 55 LT-N 55
34	STH 55, N. OF CTH VV, COVER EXISTING J4-1 AS SHOWN									1	1	COVER "NORTH 55"
35	STH 55, S. OF STH 156, COVER EXISTING J4-1 AS SHOWN									1	1	COVER "SOUTH 55"
86	STH 55, PLACE S. OF STH 156 INTERSECTION ACROSS ROADWAY	R 11-3	60"X30"	1	10	10	15	30				1 MI LE AHEAD
	п	MO 4-9R	30"X24"	1	10	10						
37	STH 156, W. OF STH 55, COVER EXISTING J3-2 AS SHOWN									1	1	
38	STH 156, W. OF STH 55, MODIFY EXISTING J1-1 AS SHOWN	M 4-9A	24"X18"	1	10	10						
39	STH 156, PLACE 100' W. OF STH 55 INTERSECTION	MO 4-8	24"X12"	1	10	10						
	n e	М 3-3	24"X12"	1	10	10						
	II	М 1-6	24"X24"	1	10	10						55
10	STH 55, PLACE AT STH 156 INTERSECTION TO THE RIGHT OF EXISTING J3-2	MO 4-8	24"X12"	1	10	10						
	II	М 3-3	24"X12"	1	10	10						
	II	М 1-6	24"X24"	1	10	10						55
	п	MO 6-1	21"X21"	1	10	10						RI GHT
41	STH 55, 500' N. OF STH 156 INTERSECTION	MO 4-8	24"X12"	1	10	10						
	п	М 3-3	24"X12"	1	10	10						
	п	М 1-6	24"X24"	1	10	10						55
	п	MO 5-1R	21"X21"	1	10	10						
12	STH 55, PLACE N. OF STH 156 INTERSECTION, FIELD DETERMINE	PCMS							7			
13	STH 55, 1000' N . OF STH 156 INTERSECTION	WO 20-2A	48"X48"	1	10	10						
4	STH 55, PLACE BETWEEN DEPOT AND ROBBINS ON PARKING LANE, FIELD DETERMINE	PCMS							7			
	PAGE SUBTOTALS			18		180	15	30	14		7	

100 1,000

PLAN SHEET PRODUCED BY WisDOT - NE REGION

PROJECT TOTALS

Ε PROJECT NUMBER: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET

PAVEMENT MARKING SUMMARY

				PAVEMENT PAINT	ORARY MARKING 4-INCH* 0402	PAVEMENT EPOXY 4- 646.		SAME EPOXY 4	MARKI NG DAY I NCH** 0406	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH 646.2304.S	PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH 646.2308.S	
				YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	WHI TE	WHI TE	
	STAT	TI ON		SOLI D	DASHED	SOLI D	DASHED	SOLI D	DASHED	SOLI D	SOLI D	
CATEGORY	FROM	TO	LOCATI ON	LF	LF	LF	LF	LF	LF	LF	LF	COMMENTS
0010	115+00	133+15	STH 55	-	290	-	-	-	454	-	-	STH 55 CENTERLINE
	133+15	292+00	STH 55	-	2, 542	-	3, 971	-	3, 971	-	-	
	292+00	303+25	STH 55	2, 250	184	1, 125	288	1, 125	288	-	-	STH 55 CENTERLINE
	303+25	313+00	STH 55	3, 700	-	1, 850	-	1, 850	-	-	-	STH 55 CENTERLINE
	313+00	323+50	STH 55	2, 100	168	1, 050	275	1, 050	275	-	-	STH 55 CENTERLINE
	323+50	348+75	STH 55	-	404	-	638	-	638	-	-	STH 55 CENTERLINE
	348+75	352+05	STH 55	-	53	-	-	-	88	-	-	STH 55 CENTERLINE
	115+00	141+00	STH 55, RT/LT	-	-	-	-	-	-	5, 100	-	STH 55 EDGELINES
	141+00	167+00	STH 55, RT/LT	-	-	-	-	-	-	5, 003	-	STH 55 EDGELINES
	167+00	193+00	STH 55, RT/LT	-	-	-	-	-	-	5, 100	-	STH 55 EDGELINES
	193+00	245+00	STH 55, RT/LT	-	-	-	-	-	-	10, 303	-	STH 55 EDGELINES
	245+00	298+00	STH 55, RT/LT	_	-	-	-	_	-	10, 352	-	STH 55 EDGELINES
	298+00	324+00	STH 55, RT/LT	_	-	-	-	_	-	5, 081	-	STH 55 EDGELINES
	324+00	351+55	STH 55, RT/LT	_	-	-	-	_	-	5, 154	-	STH 55 EDGELINES
	244+60	242+76	STH 55, RT	_	-	-	-	_	-	· -	184	RIGHT TURN LANE
	247+94	246+22	STH 55, LT	-	-	-	-	-	-	-	172	RIGHT TURN LANE
	294+76	293+66	STH 55, LT	_	-	_	-	_	-	-	110	RIGHT TURN LANE
	323+50	322+72	STH 55, RT	_	-	_	-	_	-	-	78	RIGHT TURN LANE
	350+03	348+07	STH 55, RT	_	-	_	-	_	-	-	196	RIGHT TURN LANE
•			SUBTOTAL	8, 050	3, 641	4, 025	5, 172	4, 025	5, 714	46, 093	740	
			TOTAL	11,	691	9, 1	197	9, ′	739	46, 093	740	

*NOTE: TEMPORARY PAVEMENT MARKING PAINT APPLIED TO MILLED SURFACE AND APPLIED TO LIFT 1

**NOTE: PAVEMENT MARKING SAME DAY EPOXY 4-INCH FOR APPLICATION BEFORE CENTER LINE RUMBLE STRIPS PLACED

***NOTE: PAVEMENT MARKING EPOXY 4-INCH FOR APPLICATION AFTER CENTER LINE RUMBLE STRIPS PLACED, STA 133+15 TO STA 348+75

LOCATI NG NO-PASSI NG ZONES 648. 0100

CATEGORY	LOCATI ON	MI
0010	STH 55 NB	4. 5
	STH 55 SB	4. 5
	TOTAL	9

PROJECT NO: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAMLE MISCELLANEOUS QUANTITIES SHEET: E

			CONSTRUCTION STAKING PIPE CULVERTS 650.6000	CONSTRUCTION STAKING RESURFACING REFERENCE 650.8000	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 650. 9910	*CONSTRUCTION STAKING SLOPE STAKES 650.9920
CATEGORY	STATI ON	LOCATI ON	ЕАСН	LF	LS	LF
0010	125+53	STH 55	1	-	-	-
	167+39	STH 55	1	-	-	-
	200+07	STH 55	1	-	-	-
	213+07	STH 55	1	-	-	-
	225+56	STH 55	1	-	-	-
	115+00 - 351+55	STH 55	-	23, 655	1	-
	130+55 - 135+50	STH 55	-	-	-	495
	305+25 - 309+57	STH 55	-	-	-	432
	335+00 - 340+50	STH 55	-	-	-	550
		TOTAL	5	23, 655	1	1, 477

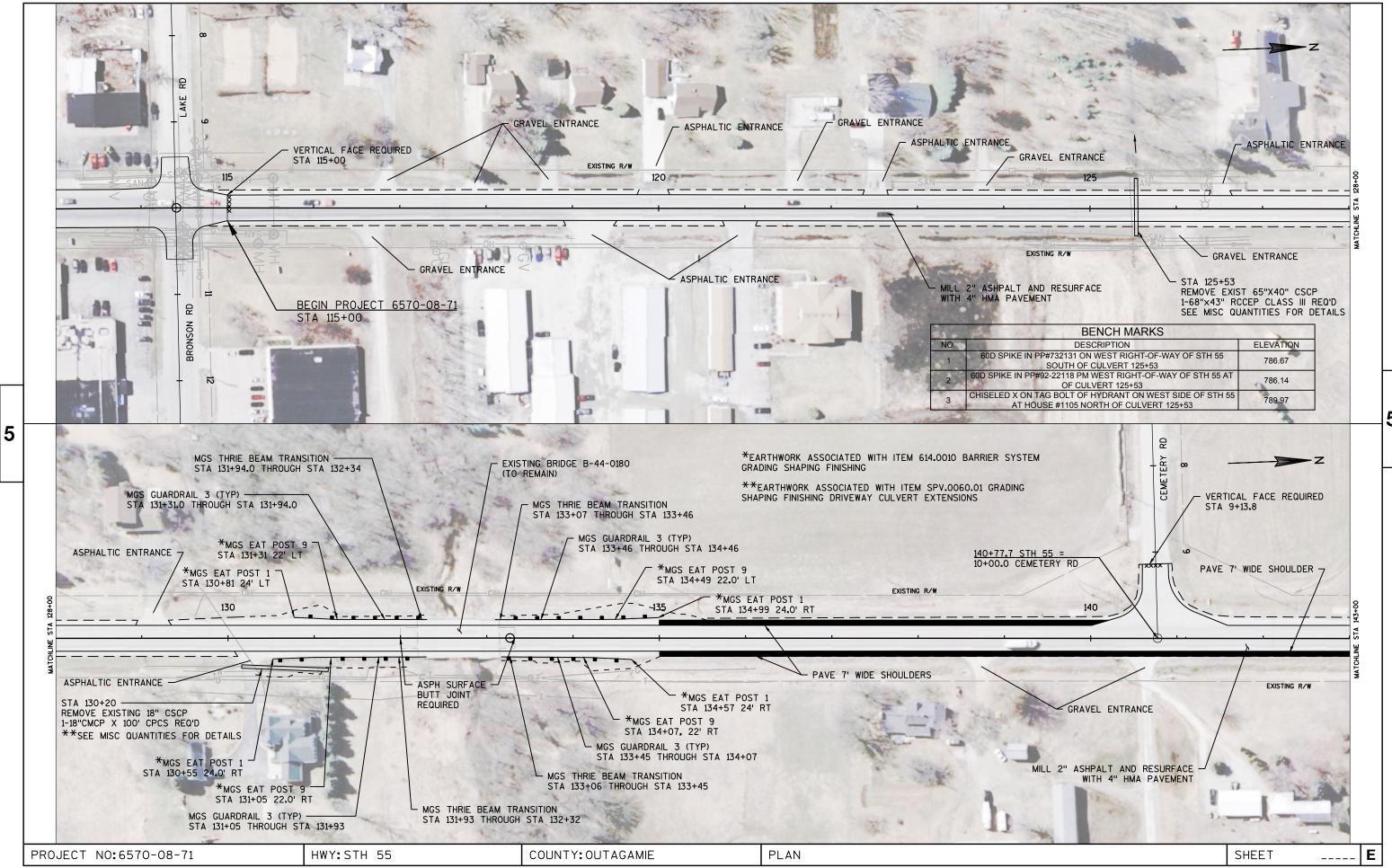
^{*}FOR INFORMATION ONLY, CONSTRUCTION STAKING INCLUDED WITH ITEM 614.0010

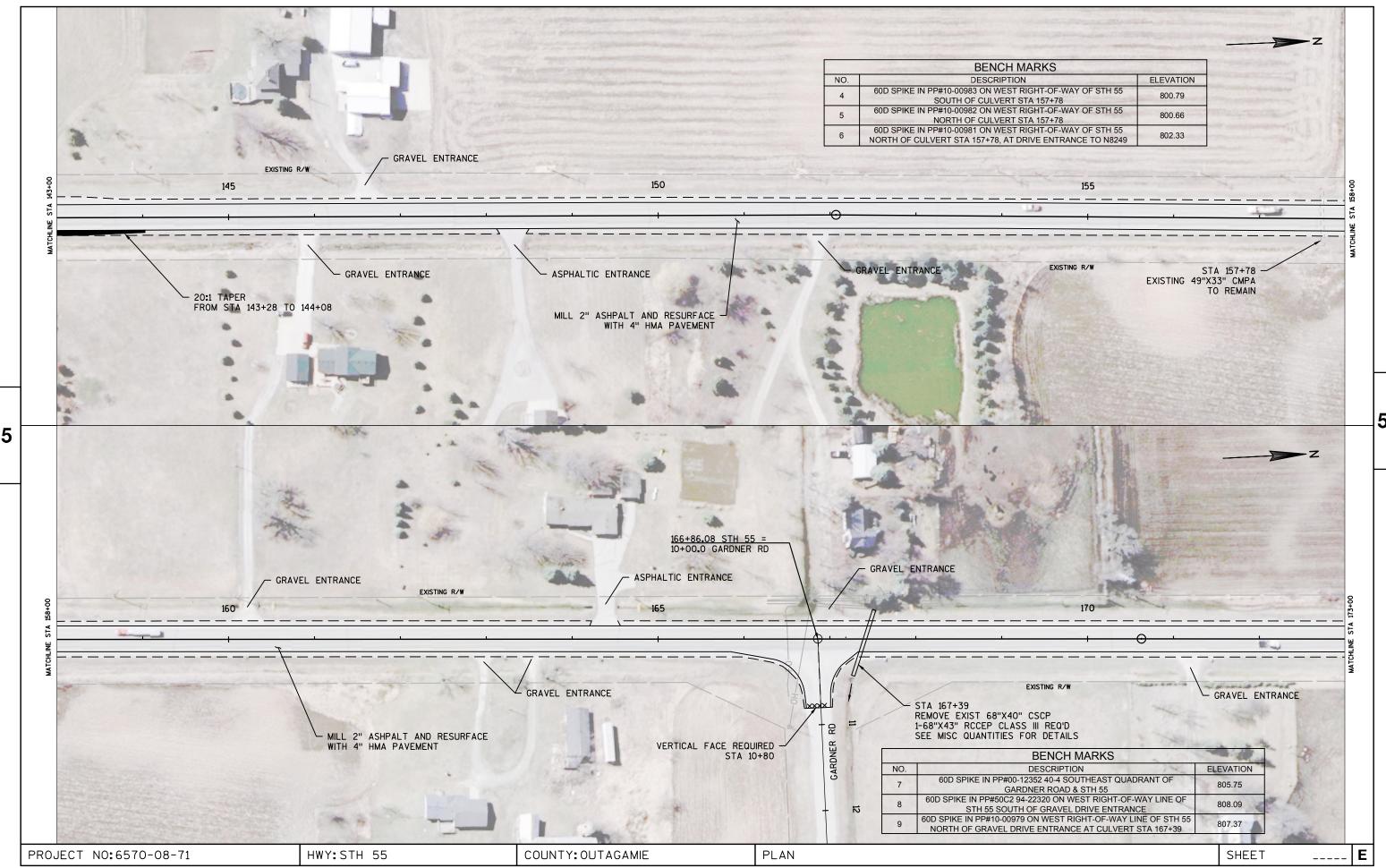
			SAWI NG ASPHALT 690. 0150
	APPROXI MENT		
CATEGORY	STATI ON	LOCATI ON	LF
0010	115+00	BEGIN PROJECT	30
	140+90, LT	CEMETERY RD	30
	166+75, RT	GARDNER RD	28
	193+00, LT	TUBBS RD	30
	245+25, RT	CTH VV	30
	245+25, LT	CTH VV	30
	298+00, LT	CI CERO RD	30
	324+25, RT	ANGLI NG RD	33
	350+75, RT	SHADY RD	32
	350+75, LT	SHADY RD	32
	352+05	END OF PROJECT	49
	115+00 - 352+05	DRI VEWAYS	460
	125+53	PI PE CULVERT	76
	167+39	PI PE CULVERT	96
	200+07	PI PE CULVERT	60
	213+07	PI PE CULVERT	60
	225+56	PI PE CULVERT	65
		TOTAL	1, 171

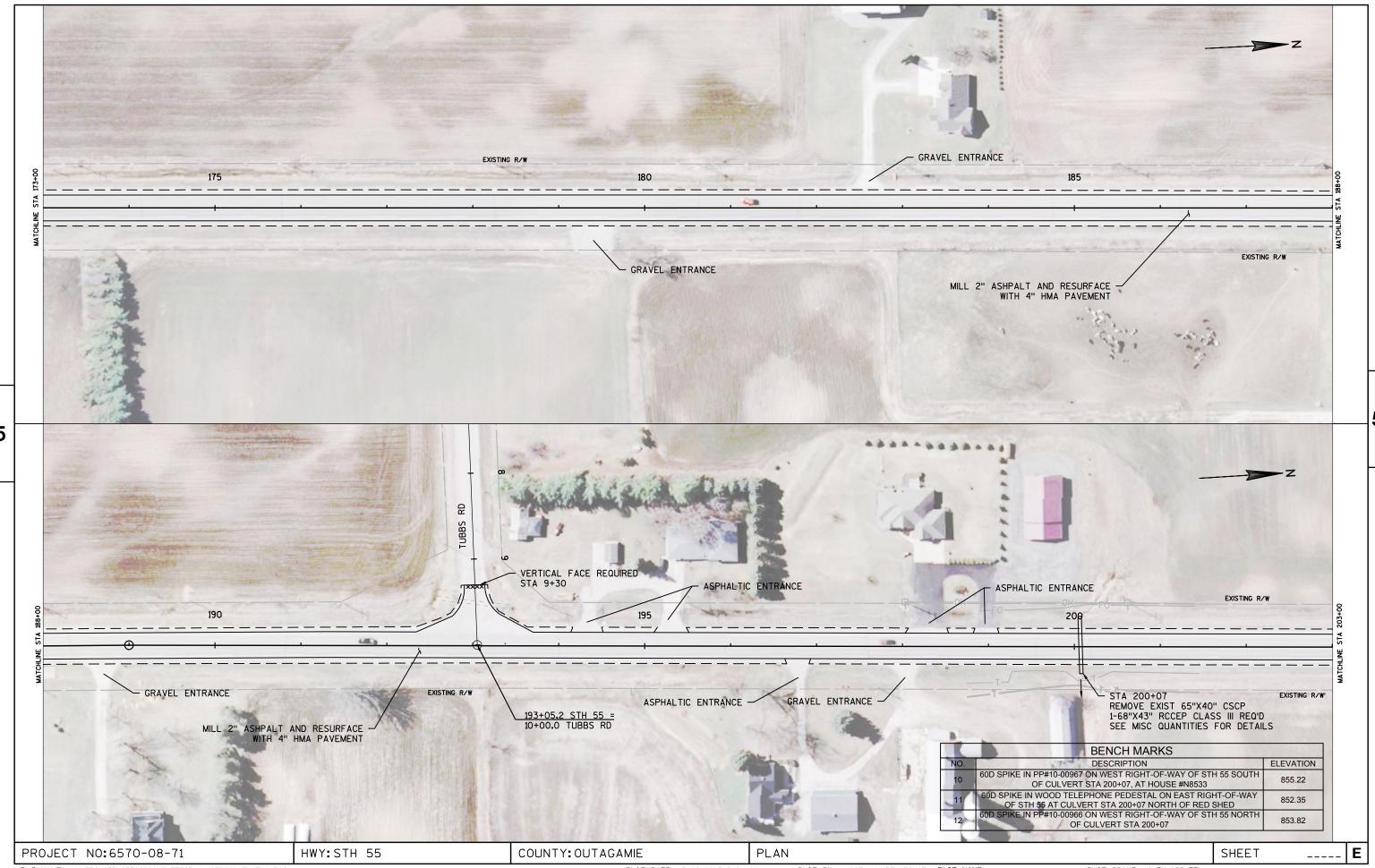
GRADING SHAPING FINISHING DRIVEWAY CULVERT EXTENSIONS SPV. 0060. 01

CATEGORY	APPROXI MENT STATI ON	LOCATI ON	ЕАСН
0010	130+50 RT	1216 N MAIN ST	1
		TOTAL	1

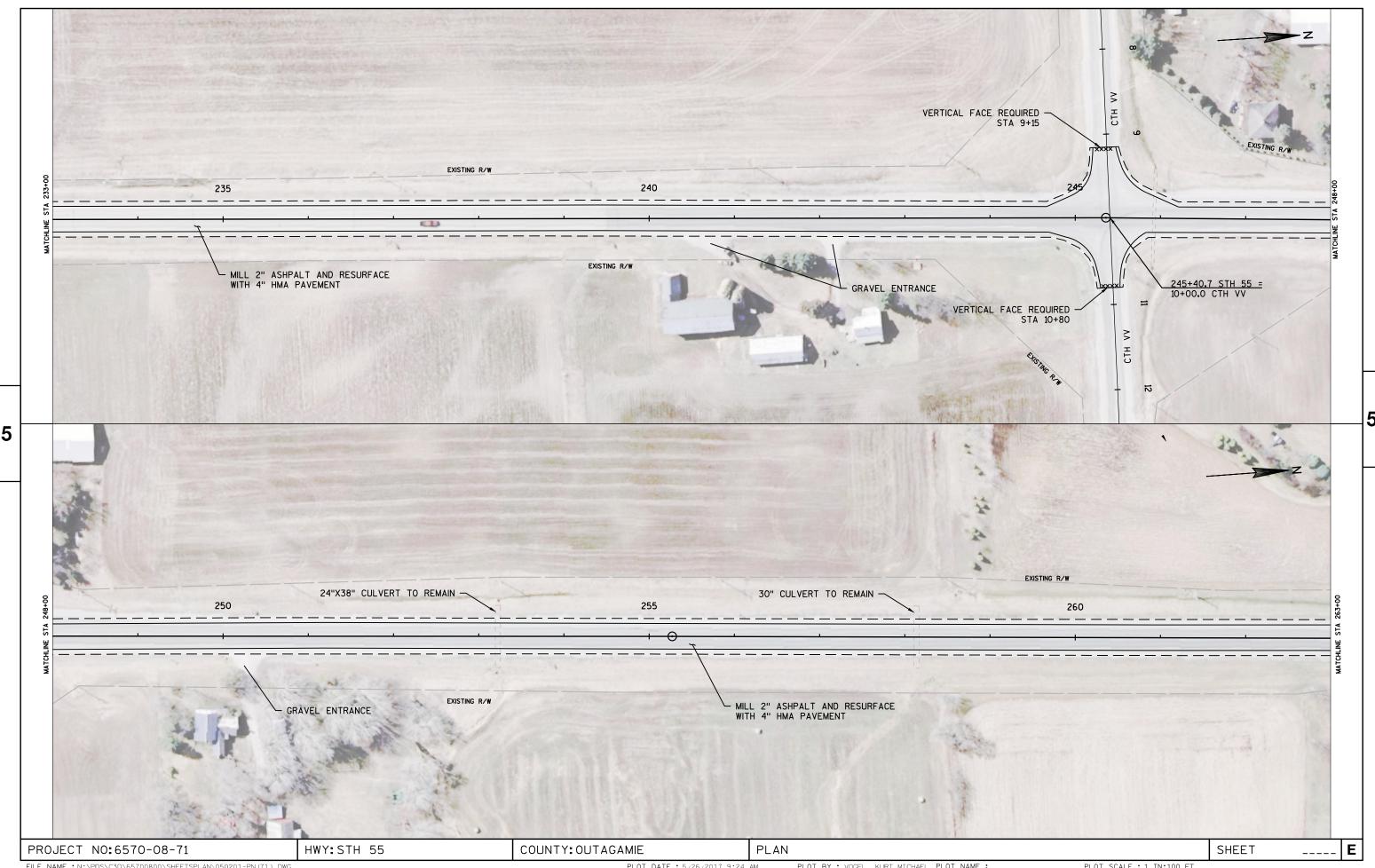
PROJECT NO: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAMLE MISCELLANEOUS QUANTITIES SHEET: E

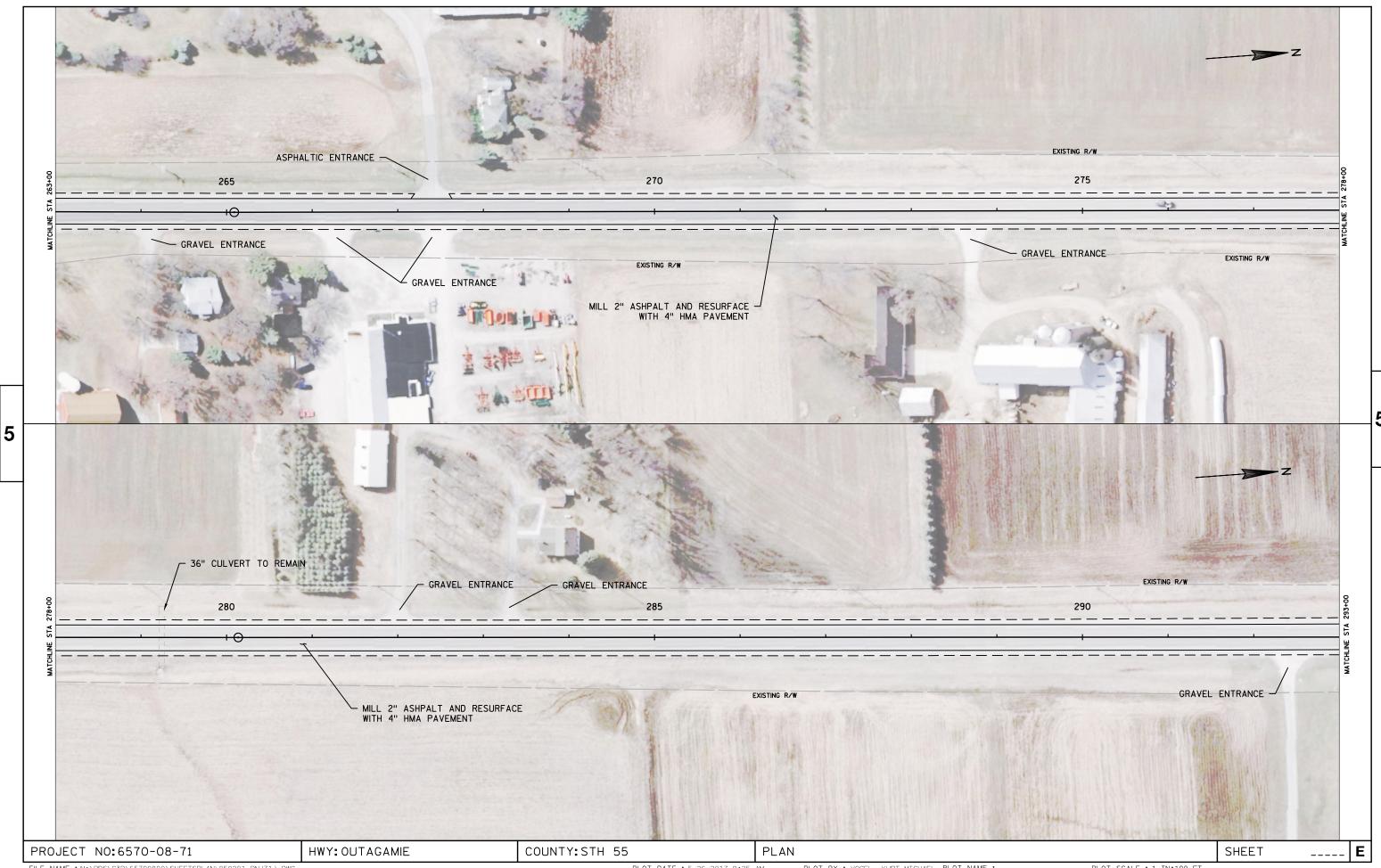




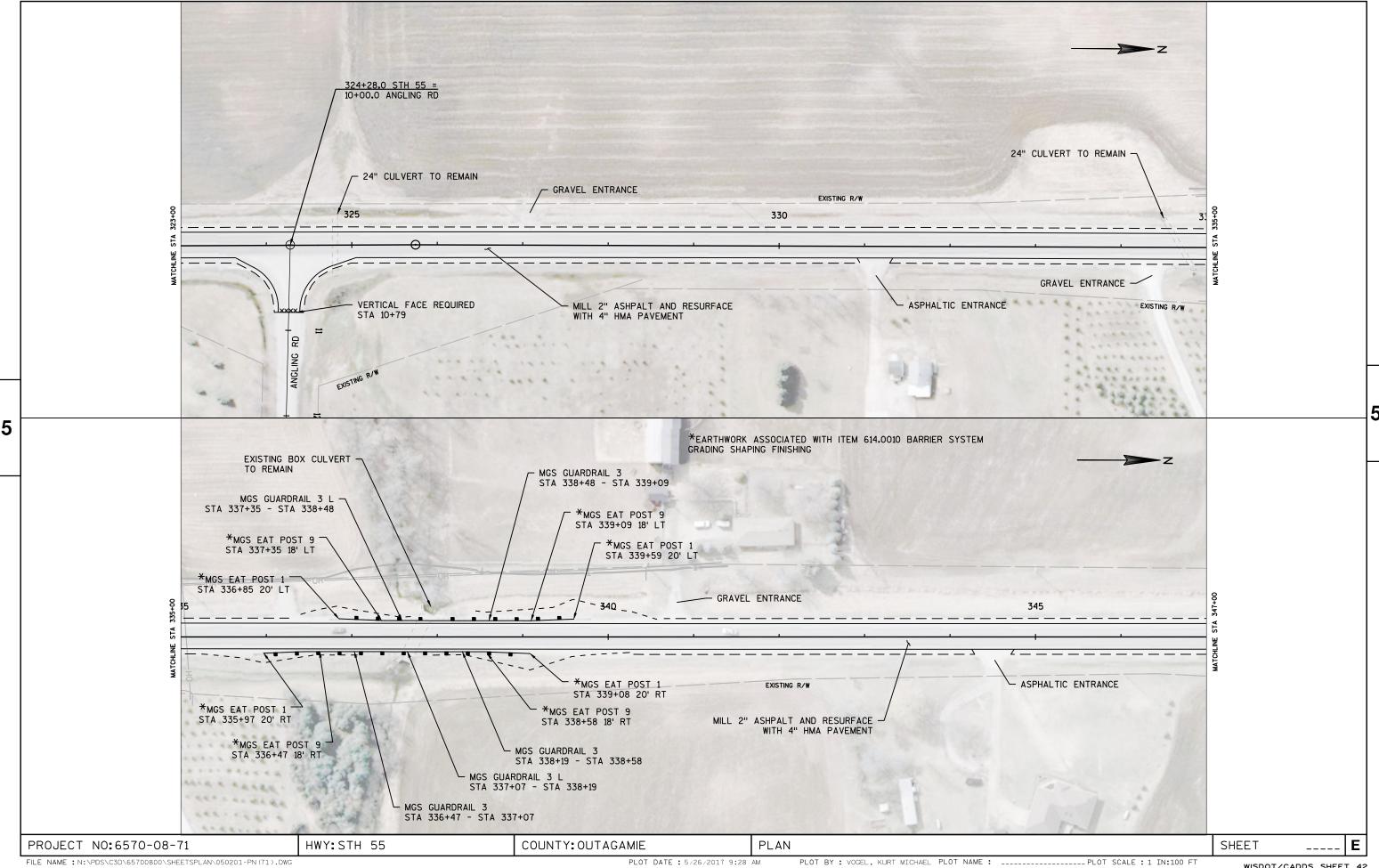












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Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B29-01	SAFETY EDGE
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B43-03A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRI CADES AND SI GNS FOR SI DEROAD CLOSURES
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-17A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C12-04	TRAFFIC CONTROL FOR LÂNE CLOSUŔE (SUITABLE FOR MOVING OPERATIONS)
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

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.

TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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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)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

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			1	METAL	APR	ON EN	NDWAL	.LS			
PIPE	MIN. 1	THICK.	DIMENSIONS (Inches)								
DIA.	(Incl		A	В	Н	L	Γį	L ₂	W	APPROX.	BODY
(IN.)	STEEL	ALUM.	(±1")	(MAX.)	(±1")	(±1 ½")	①	0	(±2")	320.2	
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	2½to 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	21/2+o 1	1Pc.
21	.064	.060	9	12	6	36	18	295/8	42	21/2+o 1	1Pc.
24	.064	.075	10	13	6	41	18	371/4	48	21/2+o 1	1Pc.
30	.079	.075	12	16	8	51	18	521/4	60	21/2+0 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	21/2+o 1	2 Pc.
42	.109	.105	16	22	11	69	24	75%	84	21/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ +o 1	3 Pc.
54	.109	.105	18	30	12	84	30	851/2	102	2 ¹ / ₄ †o 1	3 Pc.
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	11/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2+0 1	3 Pc.
96	.109×	.105×	18	35	12	87	_	_	150	1/2+0 1	3 Pc.

	RE	INFORC	ED C	ONCRET	E APRO	N E	NDWAL	.LS
PIPE			DIM	ENSIONS	(Inches)			APPROX.
DIA.	T	A	В	С	D	Ε	G	SLOPE
12	2	4	24	48 1/8	721/8	24	2	3 to 1
15	21/4	6	27	46	73	30	21/4	3 to 1
18	21/2	9	27	46	73	36	21/2	3 to 1
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1
24	3	91/2	431/2	30	731/2	48	3	3 to 1
27	31/4	101/2	491/2	24	731/2	54	31/4	3 to 1
30	$3\frac{1}{2}$	12	54	193/4	731/2	60	31/2	3 to 1
36	4	15	63	34¾	97¾	72	4	3 to 1
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	51/2		65	**************************************	8 ¹ / ₄ - 100	90	51/2	2% to 1
60	6	* * * 30-35	60	39	99	96	5	2 to 1
66	61/2	* ** 24-30	* * * 72-78	* * * 21-27	99	102	51/2	2 to 1
72	7	* ** 24-36	78	21	99	108	6	2 to 1
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1
84	8	36	901/2	21	1111/2	120	61/2	1½+o 1
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1

THREADED %6" DIA. ROD CONNECTOR AROUND CULVERT & THROUGH TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT TYPE 1 FOR 12" THRU 24" CORR. PIPE







NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

CORRUGATED PIPE. FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

DIMPLED BAND MAY BE USED WITH HELICALLY

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP

* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



**MAXIMUM





CONCRETE ENDWALLS

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

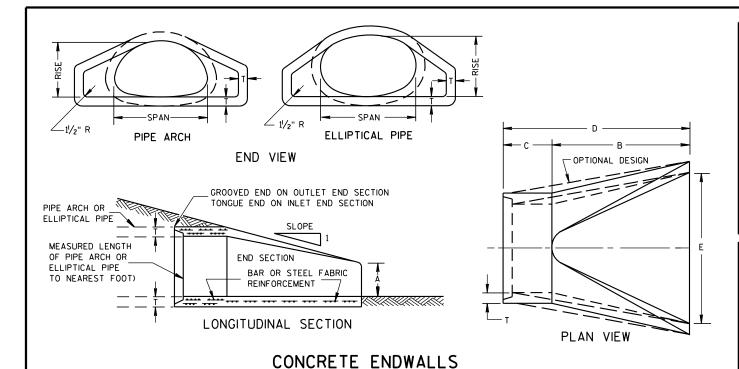
(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER

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Checks SPAN RISE STEEL ALUM. (±1") (MAX.) (±1") (±1½") (±1½") (±2") SLOPE		2- 2/3" X 1/2" CORRUGATIONS														
DIA. (Inches) A B H L L1 L2 W (±2") SLOPE BOD'	EQUIV.	(loci	hasi	MIN. 1	HICK.	DIMENSIONS (Inches)										
15						A	В		L					BODY		
18 21 15 .064 .060 7 10 6 23 14 19¾8 36 2½to 1 1 Pc 21 24 18 .064 .060 8 12 6 28 18 21¾4 42 2½to 1 1 Pc 24 28 20 .064 .060 9 14 6 32 18 27½ 48 2½to 1 1 Pc 30 35 24 .079 .075 10 16 6 39 18 37½ 60 2½to 1 1 Pc 36 42 29 .079 .075 12 18 8 46 24 45¾ 75 2½to 1 1 Pc 42 49 33 .109 .105 13 21 9 53 24 54¾ 85 2½to 1 3 Pc 48 57 38 .109 .105 18 26 12 63 24 68 90 2½to 1 3 Pc 54 64 43 .109 .105 18 30 12 70 24 72¾ 102 2½to 1 3 Pc 60 71 47 </th <th>(Inches)</th> <th>SPAN</th> <th>RISE</th> <th>STEEL</th> <th>ALUM.</th> <th>(±]")</th> <th>(MAX.)</th> <th>(±]")</th> <th>(±1 ½")</th> <th>①</th> <th>0</th> <th>(±2")</th> <th>3E0. E</th> <th></th>	(Inches)	SPAN	RISE	STEEL	ALUM.	(±]")	(MAX.)	(±]")	(±1 ½")	①	0	(±2")	3E0. E			
21	15	17	13	.064	.060	7	9	6	19	14	16	30	2½+o 1	1Pc.		
24 28 20 .064 .060 9 14 6 32 18 27½ 48 2½ to 1 1 Pc 30 35 24 .079 .075 10 16 6 39 18 375% 60 2½ to 1 1 Pc 36 42 29 .079 .075 12 18 8 46 24 45¾ 75 2½ to 1 1 Pc 42 49 33 .109 .105 13 21 9 53 24 54¾ 85 2½ to 1 2 Pc 48 57 38 .109 .105 18 26 12 63 24 68 90 2½ to 1 3 Pc 54 64 43 .109 .105 18 30 12 70 24 72¾ 102 2¼ to 1 3 Pc 66 77 52 .109* .105* 18 36 12 77 — 126 2 to 1 3 Pc 66 77 52 .109* .105* 18 36 12 77 — 126 2 to 1 3 Pc	18	21	15	.064	.060	7	10	6	23	14	193/8	36	21/2+o 1	1Pc.		
30 35 24 .079 .075 10 16 6 39 18 375/8 60 21/2 to 1 1 Pc 36 42 29 .079 .075 12 18 8 46 24 453/8 75 21/2 to 1 1 Pc 42 49 33 .109 .105 13 21 9 53 24 543/4 85 21/2 to 1 2 Pc 48 57 38 .109 .105 18 26 12 63 24 68 90 21/2 to 1 3 Pc 54 64 43 .109 .105 18 30 12 70 24 723/4 102 21/4 to 1 3 Pc 60 71 47 .109* .105* 18 33 12 77 30 821/4 114 21/4 to 1 3 Pc 66 77 52 .109* .105* 18 36 12 77 — 126 2 to 1 3 Pc	21	24	18	.064	.060	8	12	6	28	18	213/4	42	21/2+o 1	1Pc.		
36	24	28	20	.064	.060	9	14	6	32	18	271/2	48	21/2+o 1	1 Pc.		
42 49 33 .109 .105 13 21 9 53 24 54¾ 85 2½to 1 2 Pr 48 57 38 .109 .105 18 26 12 63 24 68 90 2½to 1 3 Pr 54 64 43 .109 .105 18 30 12 70 24 72¾ 102 2¼to 1 3 Pr 60 71 47 .109* .105* 18 33 12 77 30 82¼ 114 2¼to 1 3 Pr 66 77 52 .109* .105* 18 36 12 77 — 126 2 to 1 3 Pr	30	35	24	.079	.075	10	16	6	39	18	375/8	60	21/2+o 1	1 Pc.		
48 57 38 .109 .105 18 26 12 63 24 68 90 2½t 1 3 Pr 54 64 43 .109 .105 18 30 12 70 24 72¾ 102 2½t 1 3 Pr 60 71 47 .109* .105* 18 33 12 77 30 82¼ 114 2¼t 1 3 Pr 66 77 52 .109* .105* 18 36 12 77 — 126 2 to 1 3 Pr	36	42	29	.079	.075	12	18	8	46	24	45%	75	21/2+o 1	1Pc.		
54 64 43 .109 .105 18 30 12 70 24 72¾ 102 2½/4 to 1 3 Po 60 71 47 .109* .105* 18 33 12 77 30 82¼ 114 2¼ to 1 3 Po 66 77 52 .109* .105* 18 36 12 77 — 126 2 to 1 3 Po	42	49	33	.109	.105	13	21	9	53	24	54¾	85	21/2 to 1	2 Pc.		
60 71 47 .109* .105* 18 33 12 77 30 82'/4 114 2'/4+0 1 3 PG 66 77 52 .109* .105* 18 36 12 77 — 126 2 +0 1 3 PG	48	57	38	.109	.105	18	26	12	63	24	68	90	2½+o 1	3 Pc.		
66 77 52 .109* .105* 18 36 12 77 — — 126 2 to 1 3 Pd	54	64	43	.109	.105	18	30	12	70	24	723/4	102	2 ¹ / ₄ +o 1	3 Pc.		
	60	71	47	.109*	.105*	18	33	12	77	30	821/4	114	21/4+0 1	3 Pc.		
70 07 57 1004 1054 10 70 10 77	66	77	52	. 109*	.105 *	18	36	12	77	_	-	126	2 to 1	3 Pc.		
12 83 57 .109* .105* 18 39 12 77 — — 138 2 †0 1 3 Pa	72	83	57	.109*	.105*	18	39	12	77	_	_	138	2 to 1	3 Pc.		

	3" X 1" CORRUGATIONS														
EQUIV.	(Incl	nes)	MIN. 1		A	В	w	APPROX.	BODY						
(Inches)	SPAN	RISE	STEEL	ALUM.	(±1")	(MAX.)	H (± <u>1</u> ")	(±1 ½")	L ₁	L 2 ①	(±2")	SLOPE			
48	53	41	.109	.105	18	26	12	63	24	723/4	90	2½+o 1	2 Pc.		
54	60	46	.109	.105	18	30	12	70	30	821/4	102	2 to 1	2 Pc.		
60	66	51	.109*	. 105*	18	33	12	77	_	_	114	11/2+0 1	3 Pc.		
66	73	55	.109 *	. 105*	18	36	12	77	_	_	126	1½+o 1	3 Pc.		
72	81	59	.109*	. 105*	18	39	12	77	_	_	138	2 to 1	3 Pc.		
78	87	63	.109*	.105 *	22	38	12	77	_	_	148	11/2+0 1	3 Pc.		
84	95	67	.109*	. 105*	22	34	12	77	_	_	162	11/2+0 1	3 Pc.		
90	103	71	.109*	. 105*	22	38	12	77	_	_	174	1½+o 1	3 Pc.		
96	112	75	.109*	.105*	24	40	12	77	_	_	174	11/2 to 1	3 Pc.		

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

THREADED 7/6" DIA. ROD OVER TOP OF APRON, SIDE

LUGS TO BE RIVETED TO

MEASURED LENGTH OF PIPE ARCH

MEASURED LENGTH

OF PIPE ARCH

SECTION

CONNECTOR SECTION

TO BE PAID FOR AS

PART OF END SECTION

CONNECTOR

* EXCEPT CENTER PANEL SEE GENERAL NOTES

ROD HOLDER

COUPLING BAND

RIVETED OR

BOLTED

REQUIRED

REINFORCED CONCRETE PIPE ARCH												
EQUIV.		DIMENSIONS (Inches)										
DIA. (Inches)	** SPAN	** RISE	T	A	В	С	D	E	SLOPE			
24	29	18	3	81/2	39	33	72	48	3 to 1			
30	36	22	31/2	91/2	50	46	96	60	3 to 1			
36	44	27	4	111/8	60	36	96	72	3 to 1			
42	51	31	41/2	1513/16	60	36	96	78	3 to 1			
48	58	36	5	21	60	36	96	84	3 to 1			
54	65	40	51/2	251/2	60	36	96	90	3 to 1			
60	73	45	6	31	60	36	96	96	3 to 1			
72	88	54	7	31	60	39	99	120	2 to 1			
84	102	62	8	281/2	83	19	102	144	2 to 1			

	REINFORCED CONCRETE ELLIPTICAL PIPE													
EQUIV.	DIMENSIONS (Inches)													
DIA. (Inches) ** SPAN RISE T A B C D E														
24	30	19	31/4	81/2	39	33	72	48	3 to 1					
30	38	24	3¾	91/2	54	18	72	60	3 to 1					
36	45	29	41/2	111/8	60	24	84	72	21/2+o 1					
42	53	34	5	15¾	60	36	96	78	21/2+o 1					
48	60	38	51/2	21	60	36	96	84	2½+o 1					
54	68	43	6	251/2	60	36	96	90	2½+o 1					
60	76	48	61/2	30	60	36	96	96	21/2 to 1					

**NOMINAL SIZE

GENERAL NOTES

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

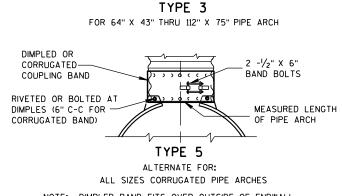
CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

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

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

phonelly.	TUBING SLIPPED (AND RIVETS PRIO CATION OF THE E
L ₂ ① 3%" R.	3%" DIA. X 1/2" OR ALUM. BUT SPACED AT 6 LENGTH OF RI 3%" R. OUTSIDE SIDEWALL
EDGE OF SIDEWALL SHEET ROLLED SNUGLY AGAINST STEEL ROD	MINIMUM %6" STEEL ROD O GALV. REINFOF

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED				
11/30/94	/	S/ Rory	L. Rhinesmi	th
DATE	CHIEF	ROADWAY	DEVELOPMENT	ENGINEER
FHWA				

REINFORCED EDGE (SEE SECTION A-A)
PLAN VIEW END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER PLATE W + 10" (RISE 23" THRU 29") W + 20" (RISE 33" THRU 75") END VIEW END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER TOE PLATE (SAME THICKNESS AND METAL AS APRON) SHALL BE FURNISHED WHEN CALLED FOR ON THE PLANS
SHOULDER SLOPE SLOPE FLOW LINE

SIDE ELEVATION

METAL ENDWALLS

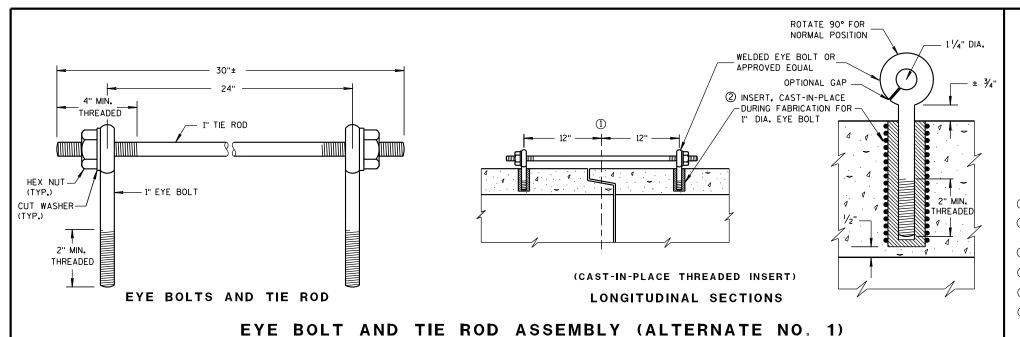
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0.109" THICK GALV. STEEL OR 0.109" THICK ALUMINUM 3/8" DIA. RIVETS SPACED APRON SIDEWALL AT 6" C-C SHEET 1" O.D. X O.079" THICK GALV. STEEL OR 0.075" THICK ALUM. OVER SHEET OR TO FABRI-END SECTION "- GALV. STEEL TTONHEAD RIVETS 6" C-C. OVER-RIVET = 0.78" OF APRON L SHEET DIA. GALV. OR 10M ORCING BAR

└─ ¹/8" (APPROX.)

CONNECTION DETAILS



GENERAL NOTES

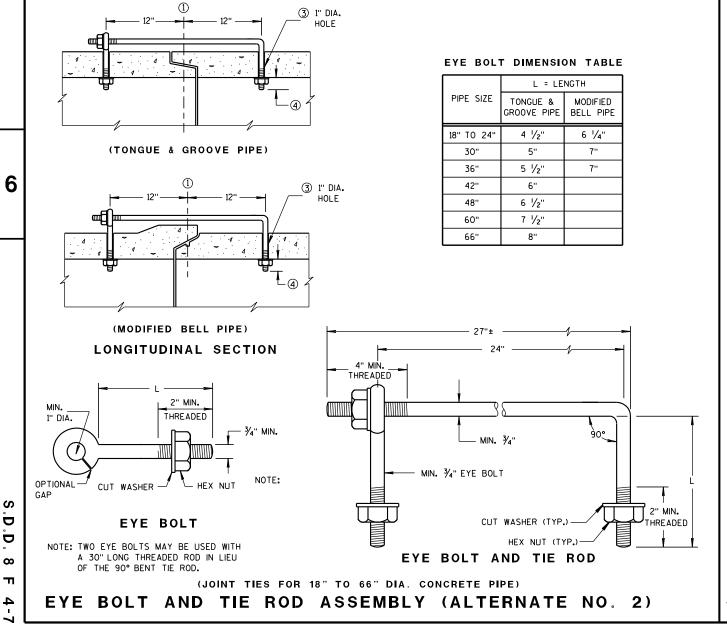
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES, ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

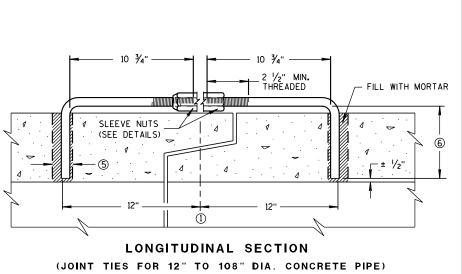
DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

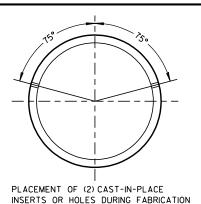
- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ${\mathfrak L}$ OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- (5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN $rac{1}{2}$ INCH OF THE INNER SURFACE OF THE PIPE.



ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

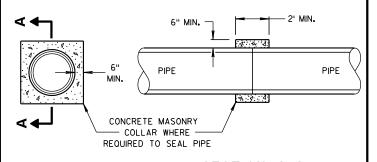


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

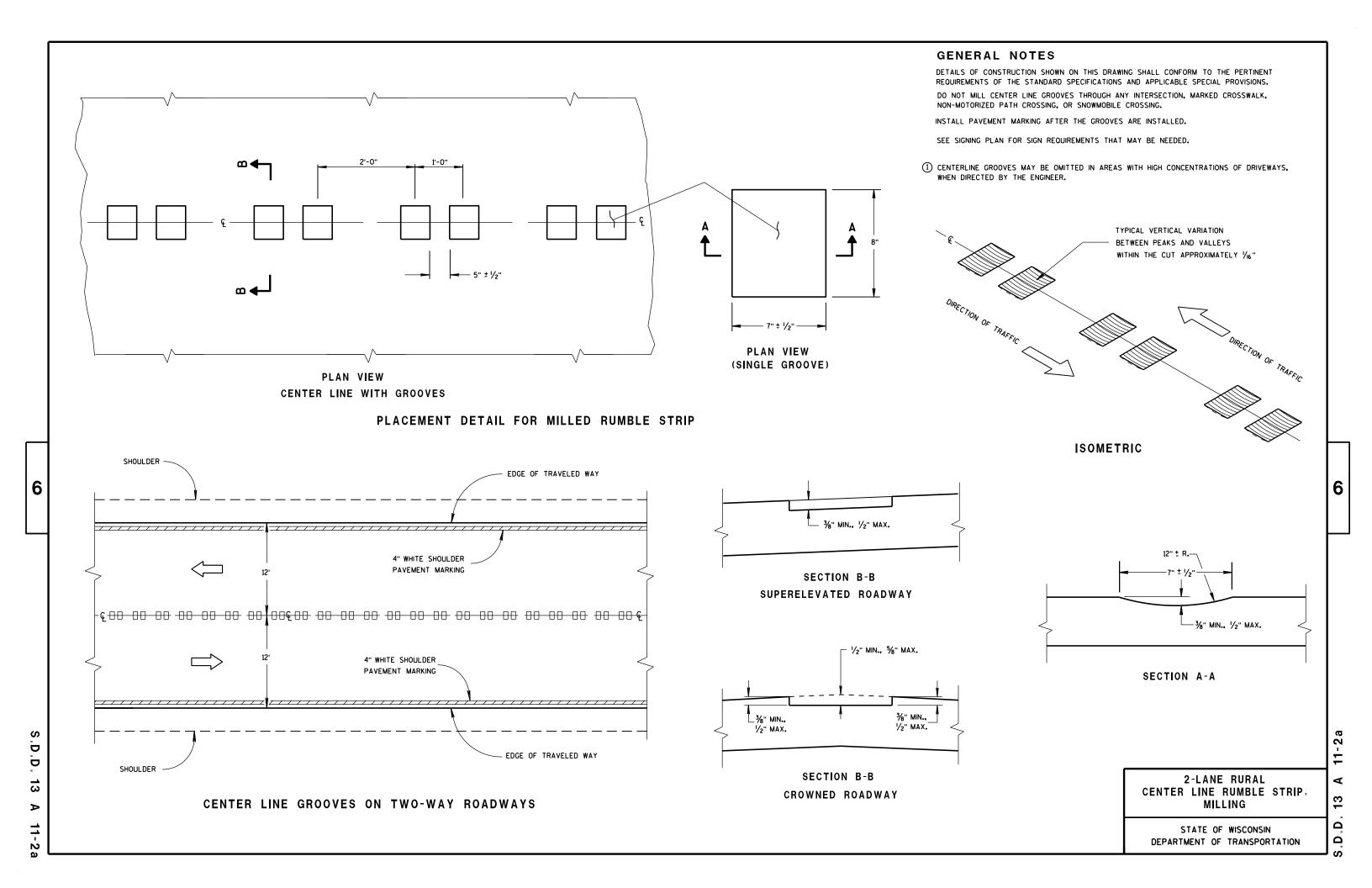
CONCRETE COLLAR DETAIL

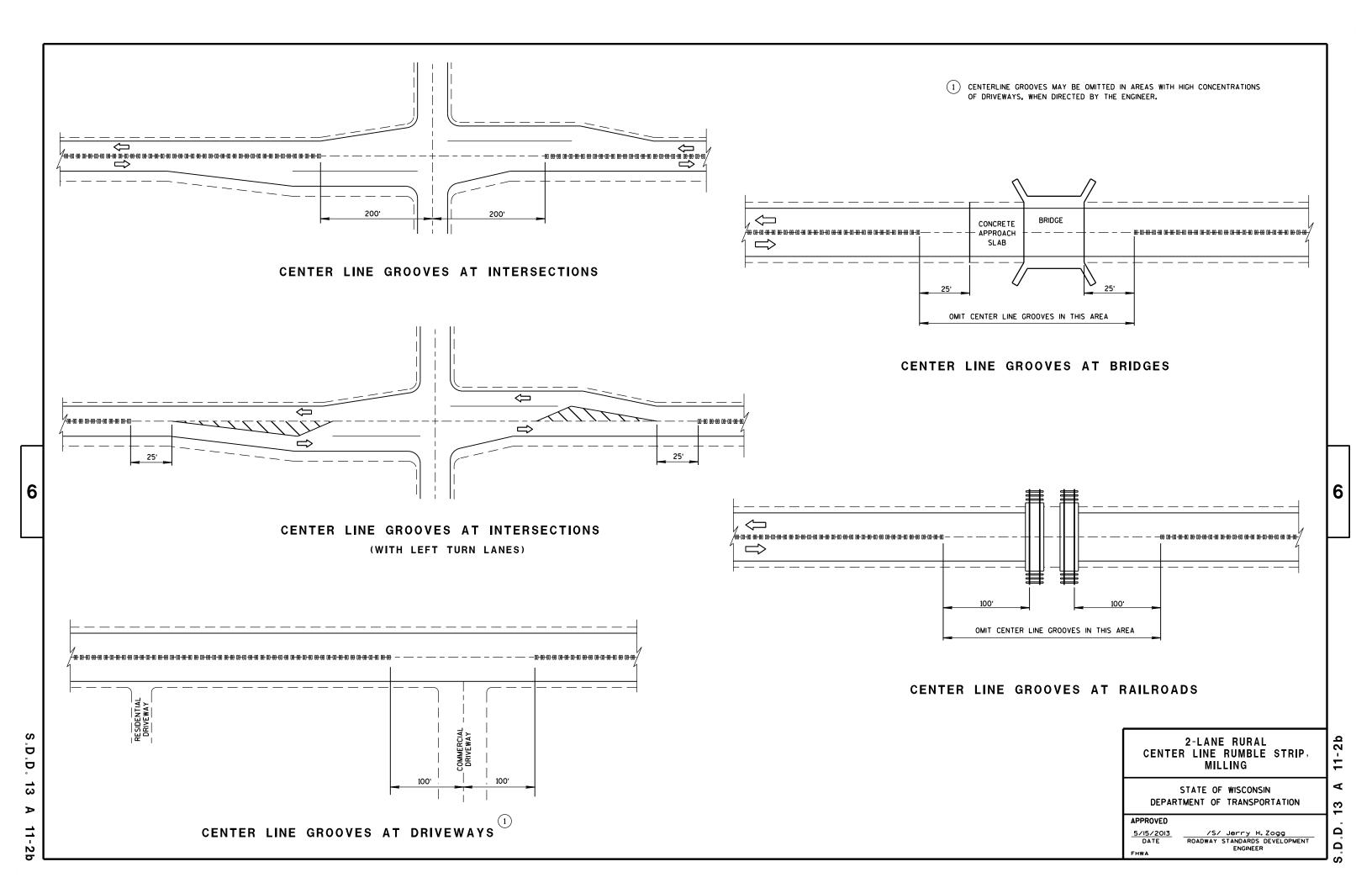
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

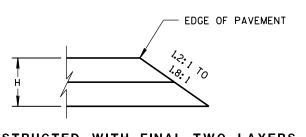
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

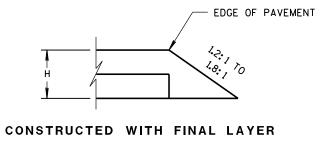
6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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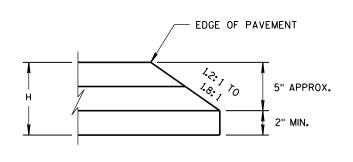


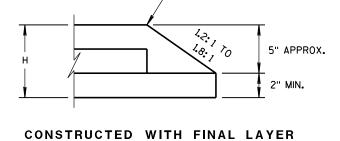


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





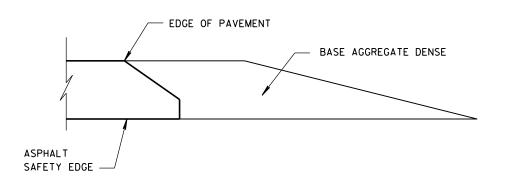
FOR H GREATER THAN 5"

EDGE OF PAVEMENT

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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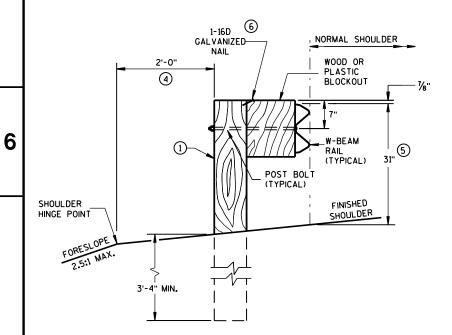
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APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

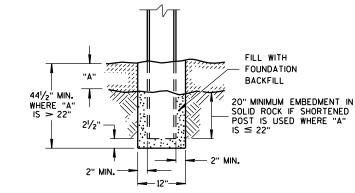
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- 2 USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ 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).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 273/4" 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.



END VIEW

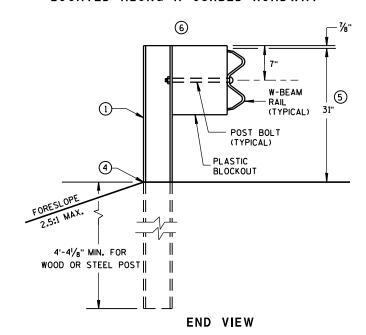
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



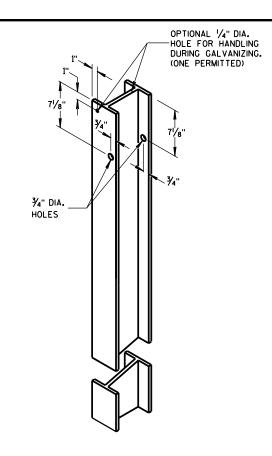
SETTING STEEL OR WOOD POST IN ROCK $^{\cite{3}}$



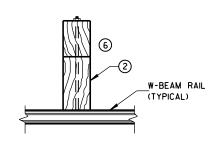
END VIEW
LOCATED ALONG A CURBED ROADWAY



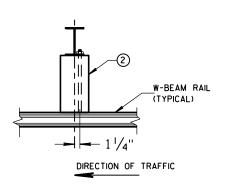
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



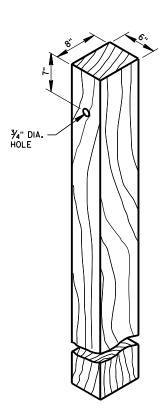
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



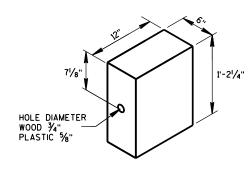
PLAN VIEW WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL $^{\scriptsize \textcircled{1}}$



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

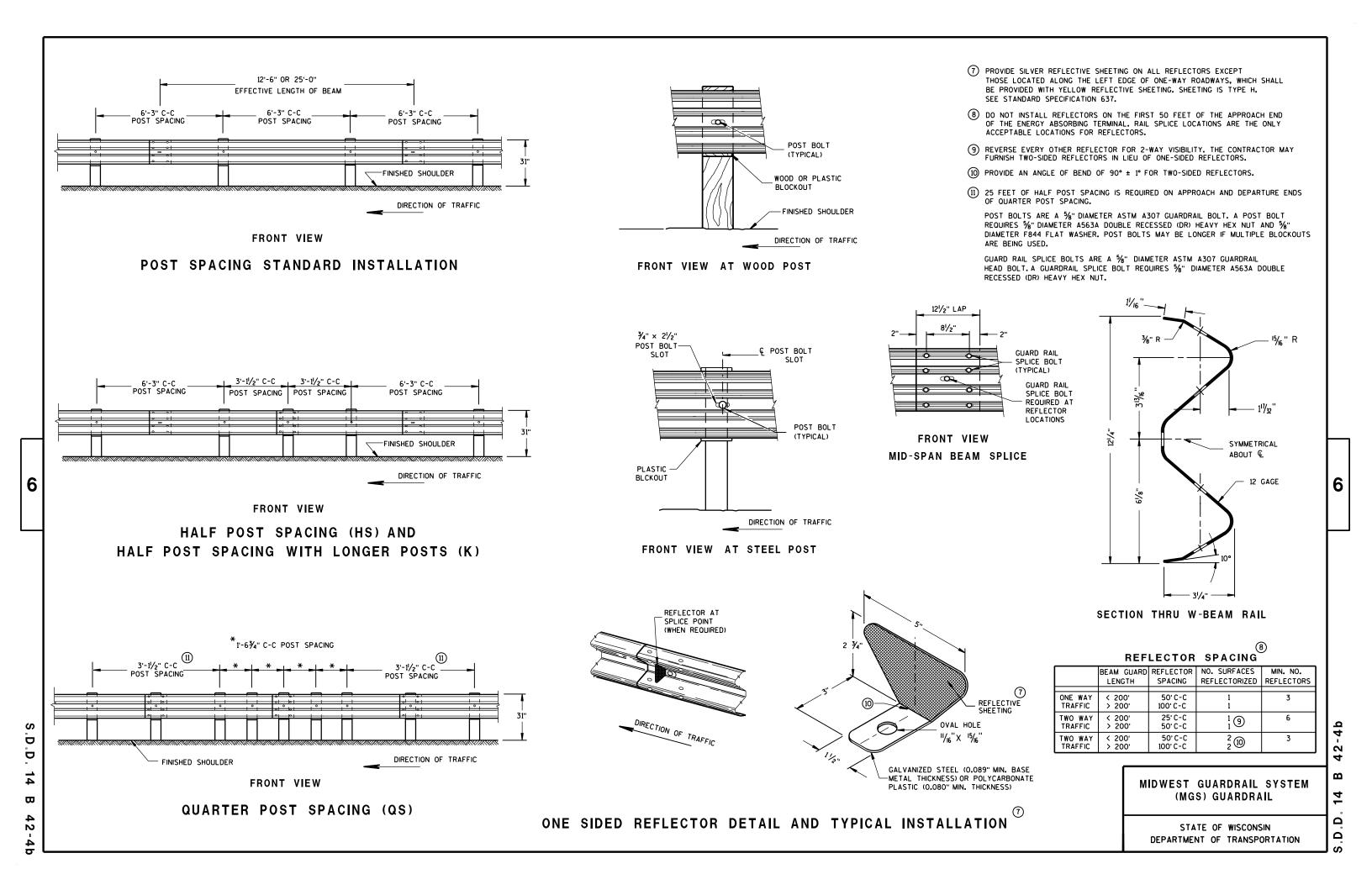
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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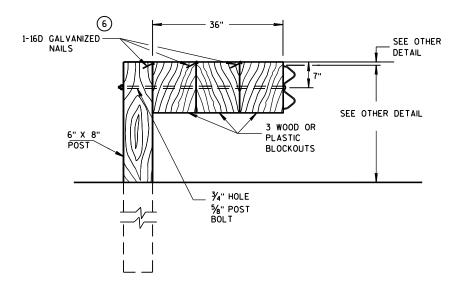
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DETAIL FOR 16" BLOCKOUT DEPTH

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.

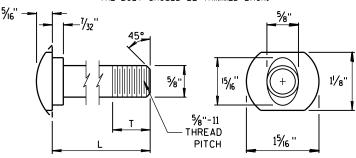


DETAIL FOR 36" BLOCKOUT DEPTH

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.

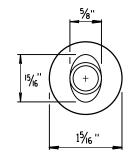
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16". 2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

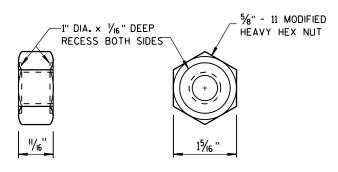


POST BOLT TABLE

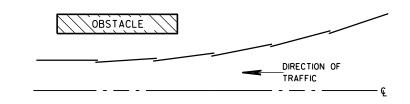
11/8"
-70
13/4"
4"
4½ ₆ "
4"
41/16"
4"



ALTERNATE BOLT HEAD

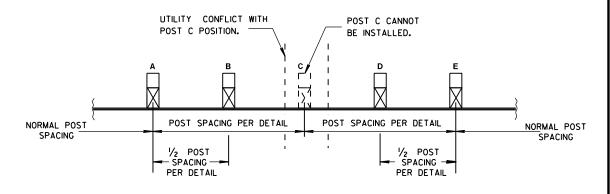


POST BOLT, SPLICE BOLT AND RECESS NUT



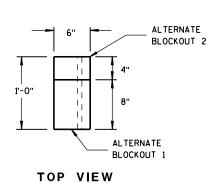
PLAN VIEW

BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

ALTERNATE WOOD **BLOCKOUT DETAIL**

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

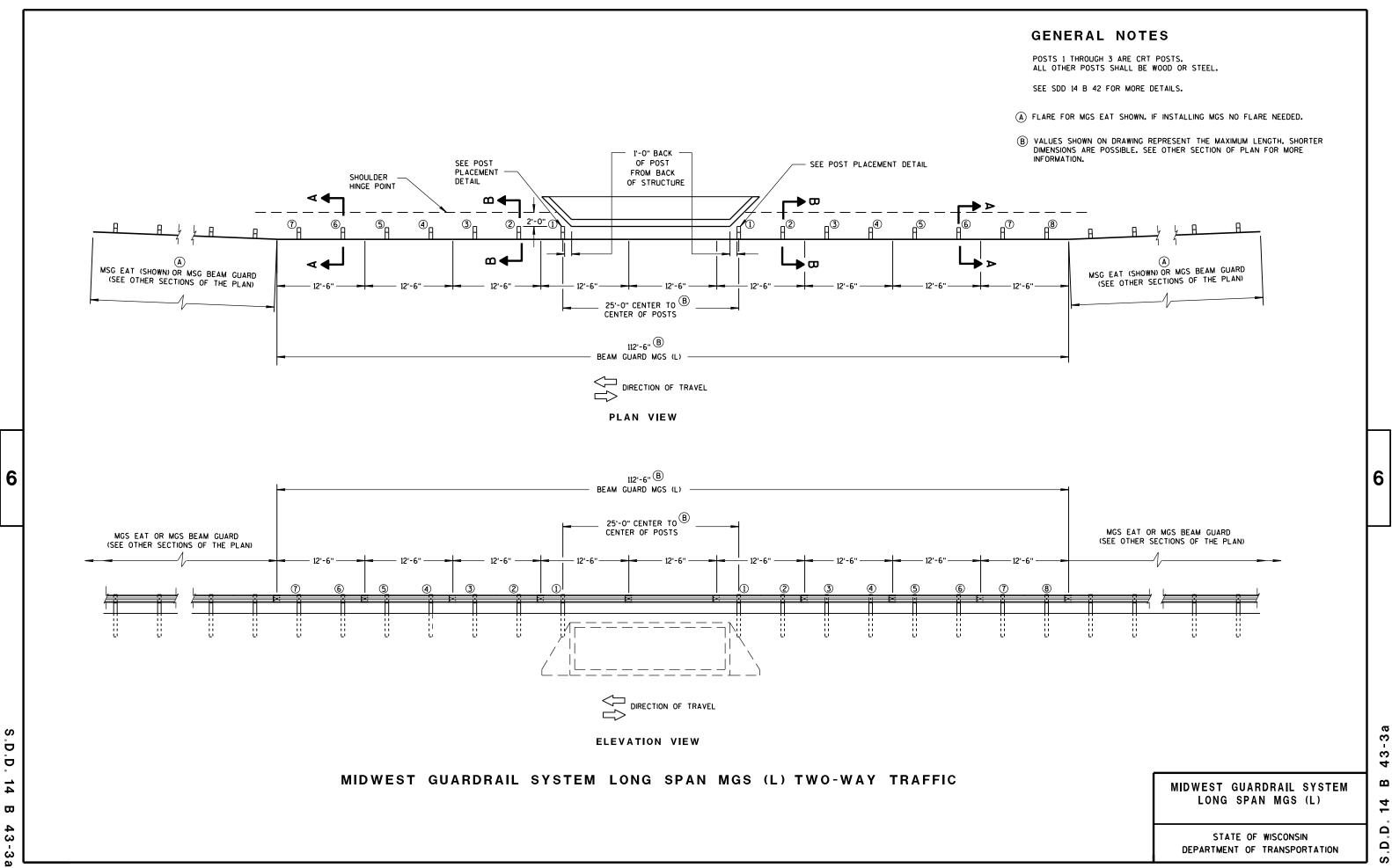
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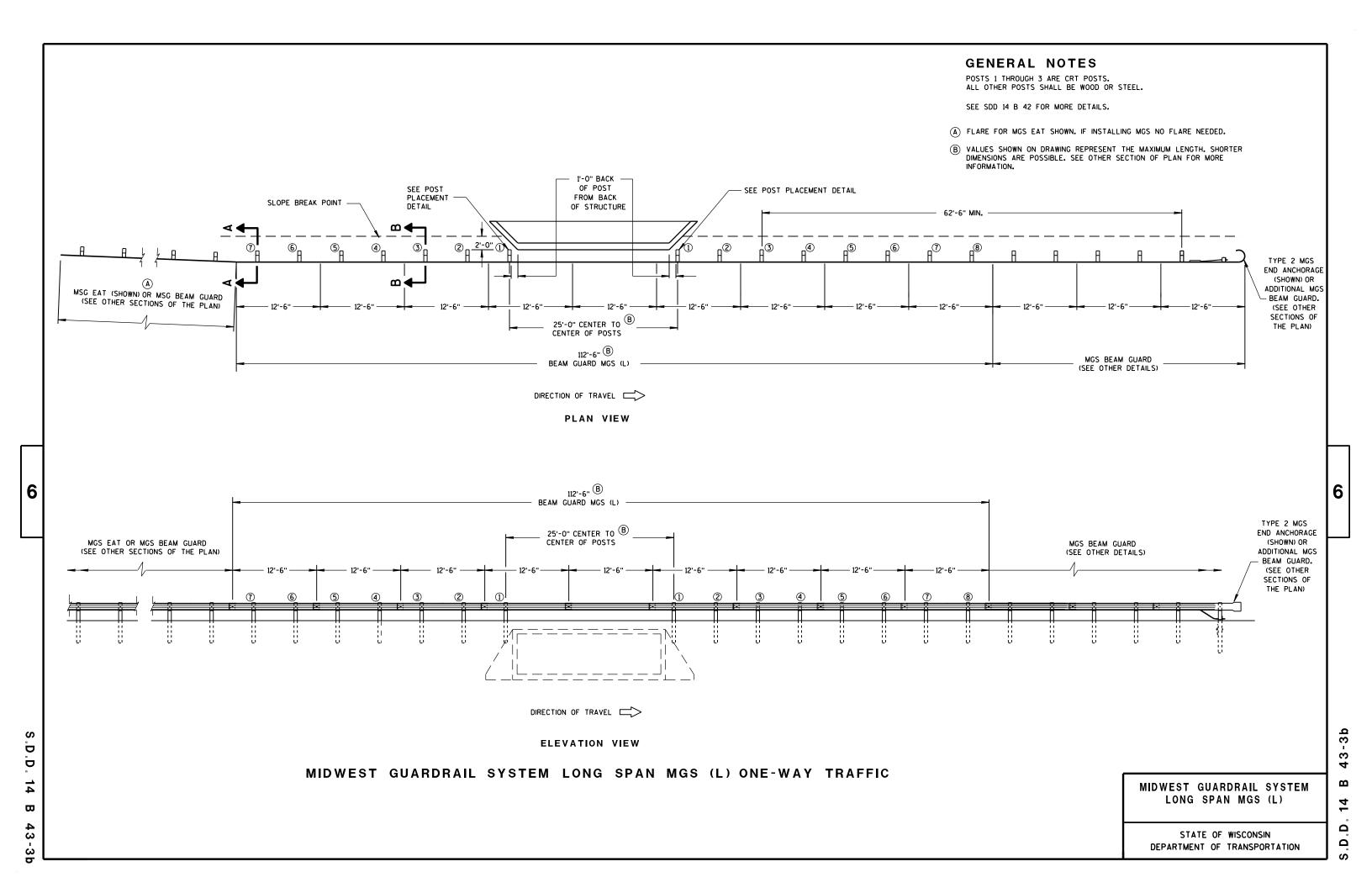
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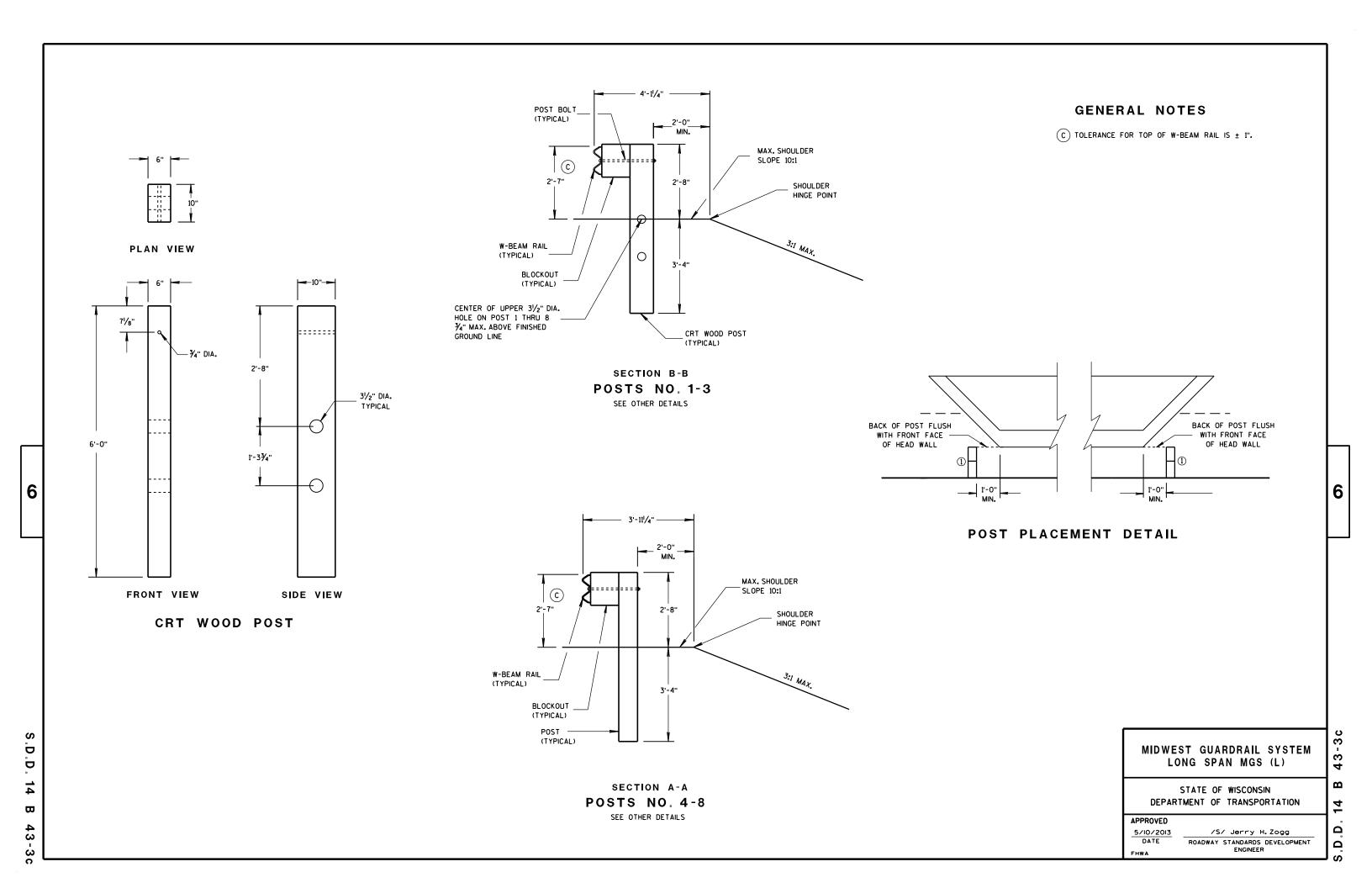
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SECTION A-A SECTION B-B

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PLAN VIEW

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
1	WOOD BREAKAWAY POST
2	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2
3	WOOD CRT
4	WOOD BLOCKOUT
(5)	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
12	END SECTION EAT
(3)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



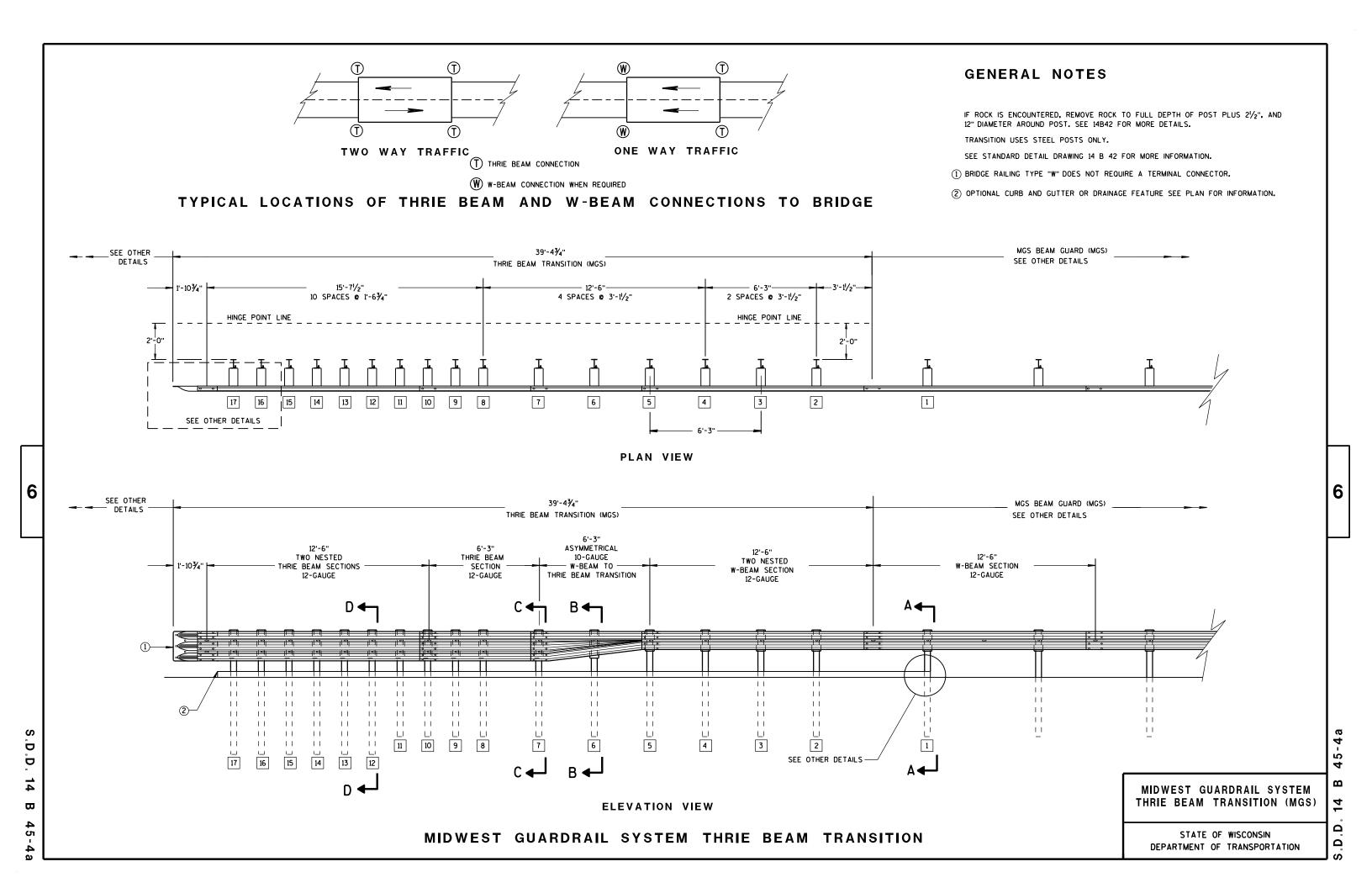
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

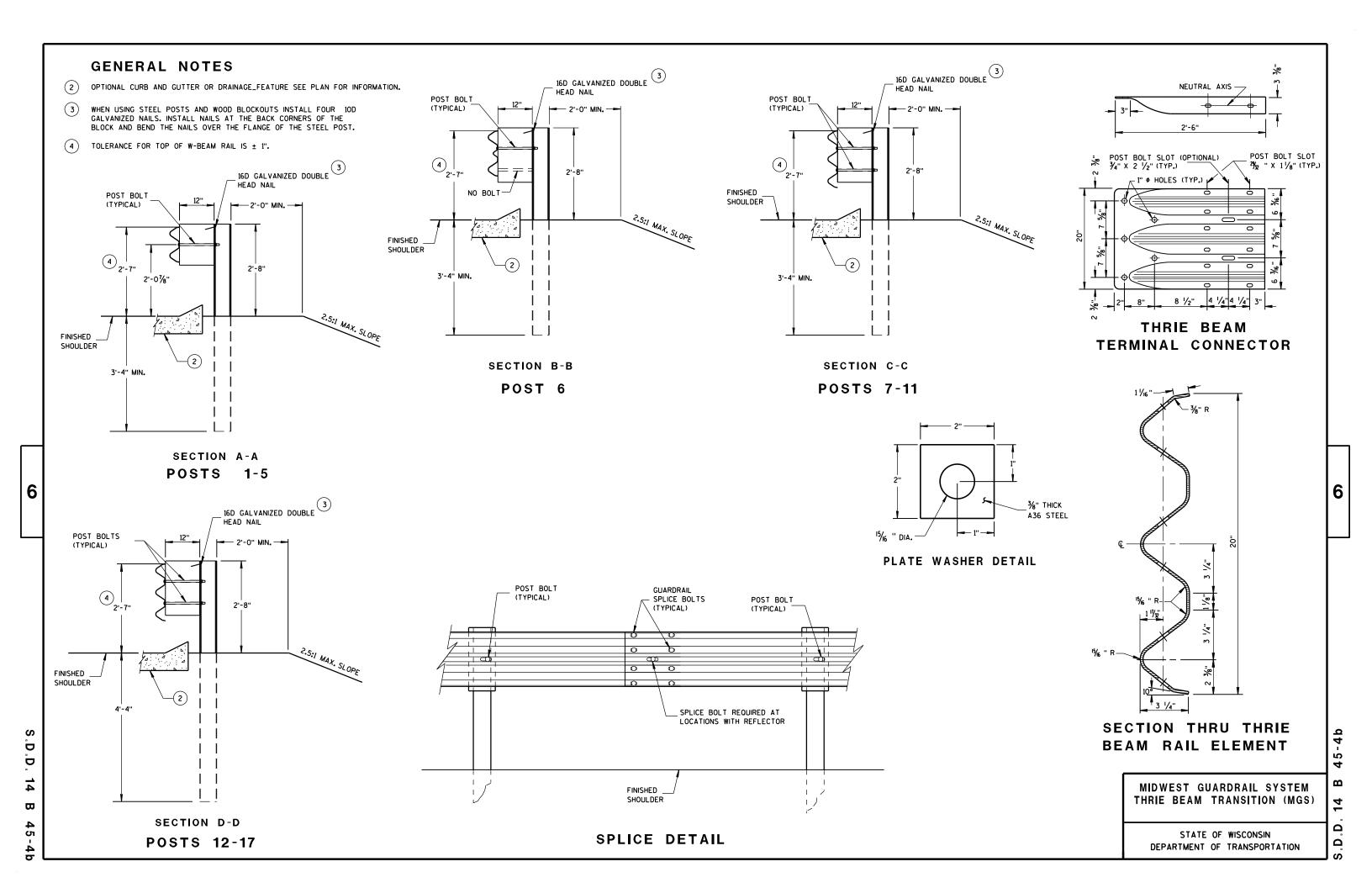
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

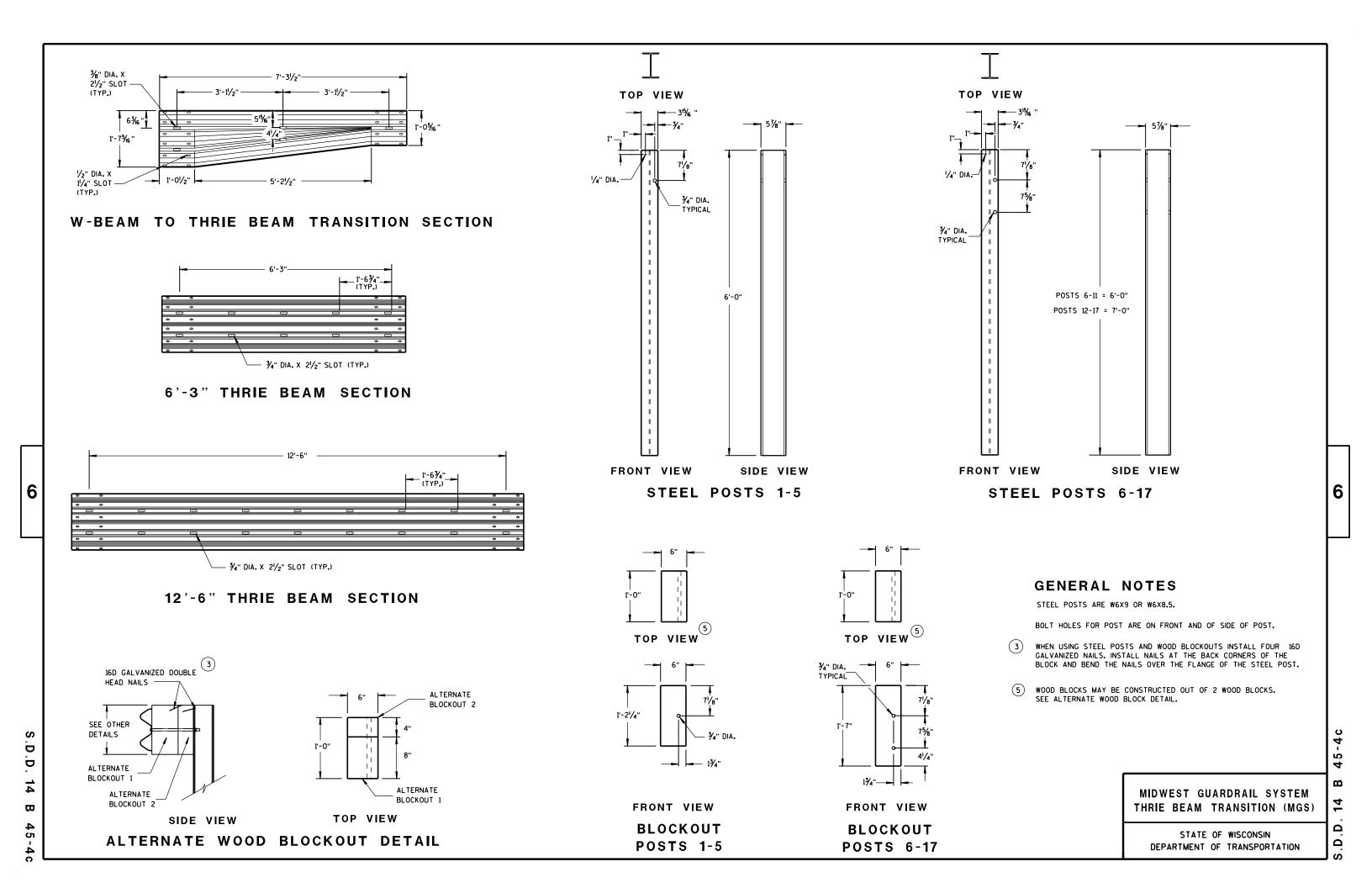
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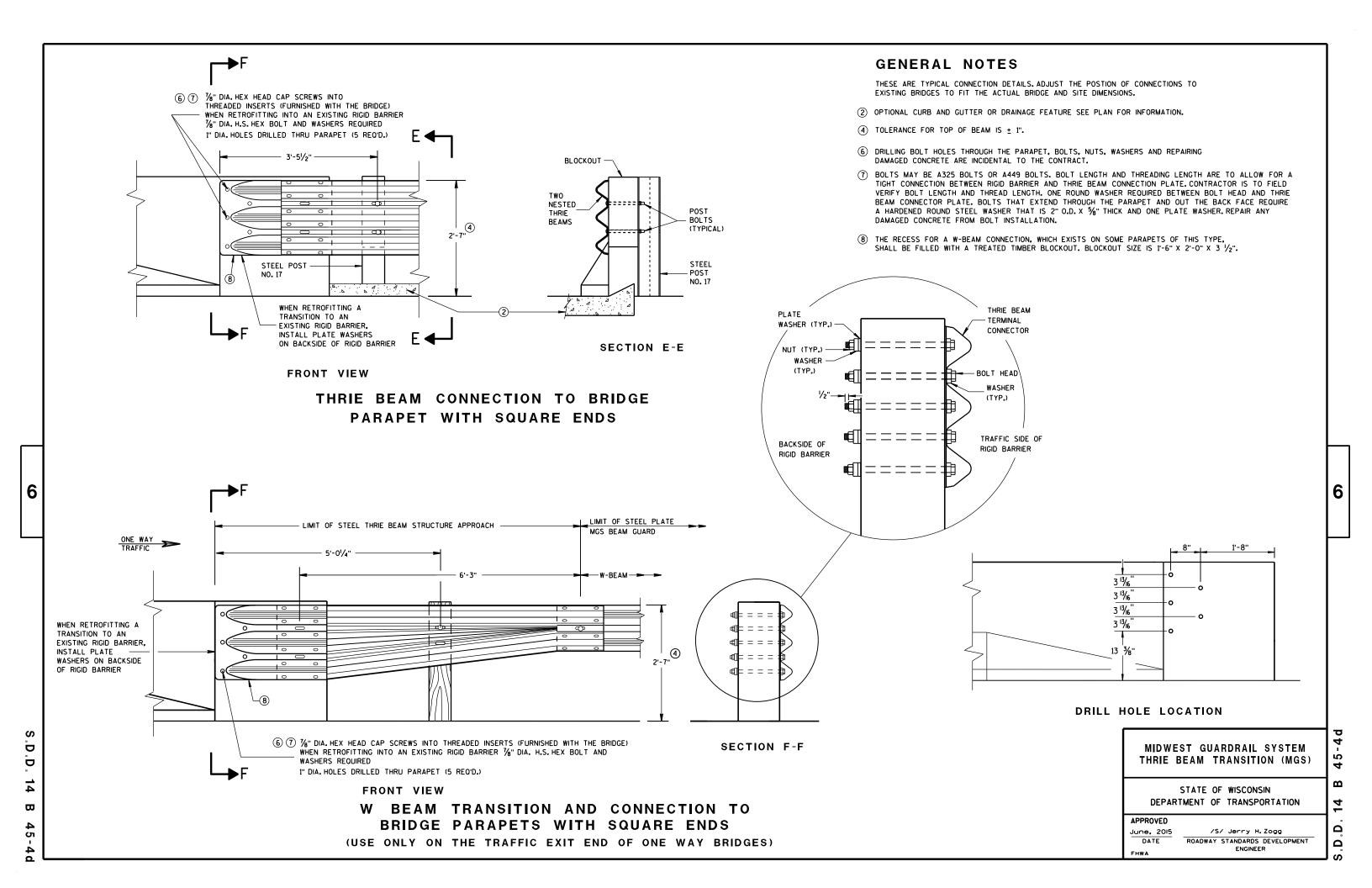
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THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

- (2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- (4) TOLERANCE FOR TOP OF BEAM IS ± 1".

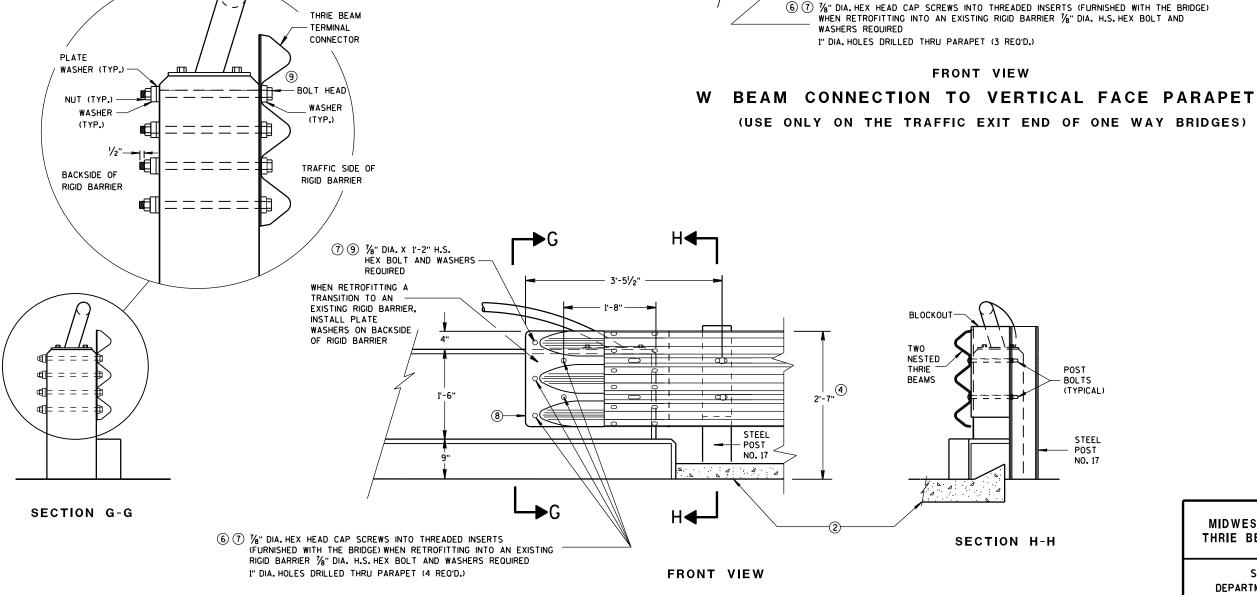
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- (6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTION 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%" 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

(7) 1/8" DIA. X 1'-2" H.S.

REQUIRED

WHEN RETROFITTING

A TRANSITION TO

AN EXISTING RIGID

BARRIFR, INSTALL

PLATE WASHERS

ON BACKSIDE OF

RIGID BARRIER

HEX BOLT AND WASHERS

W BEAM TERMINAL -

9

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
APPROVED
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE

FHWA

LIMIT OF STEEL PLATE

MGS BEAM GUARD

ONE WAY

TRAFFIC

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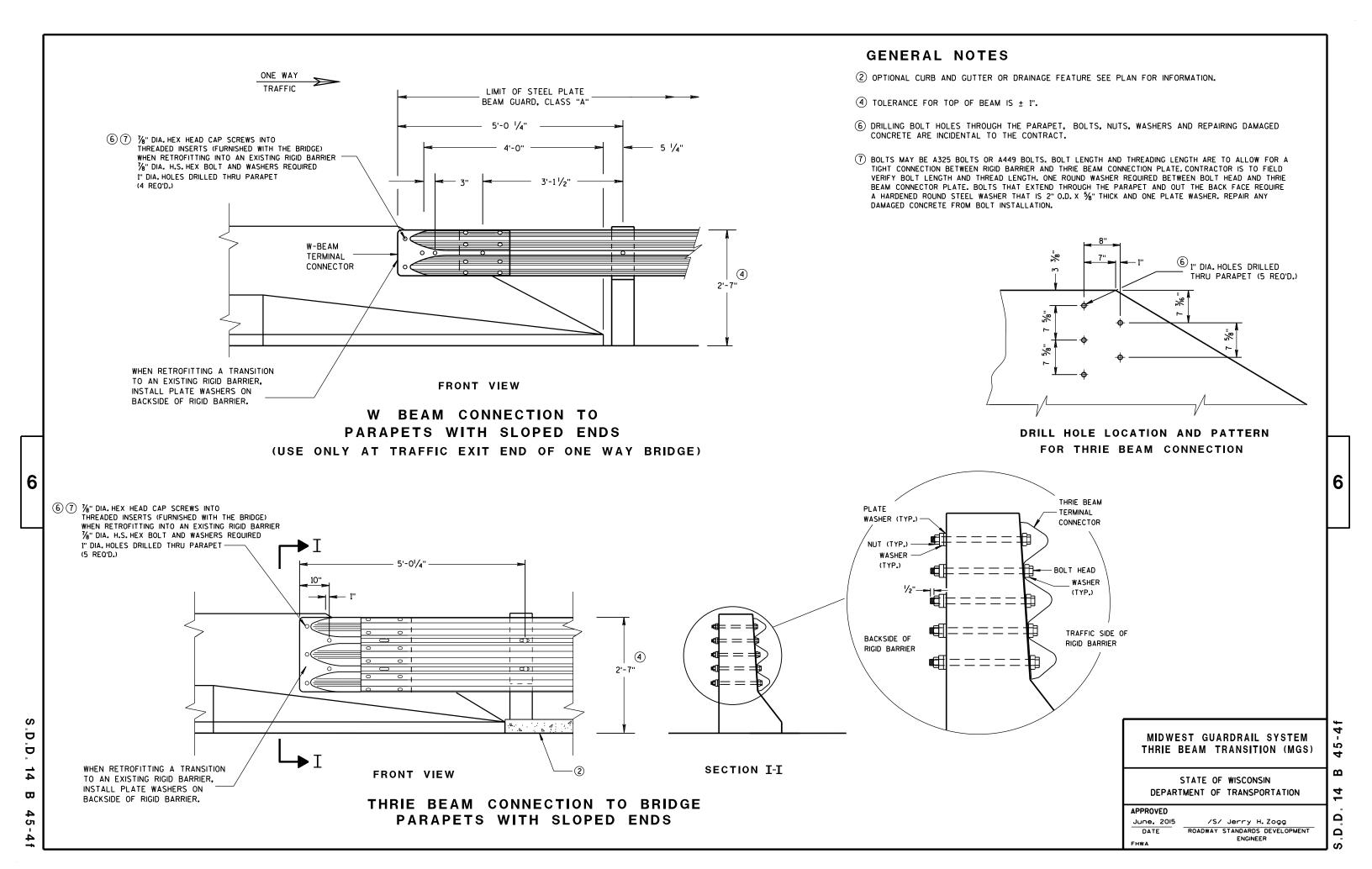
2'-7"

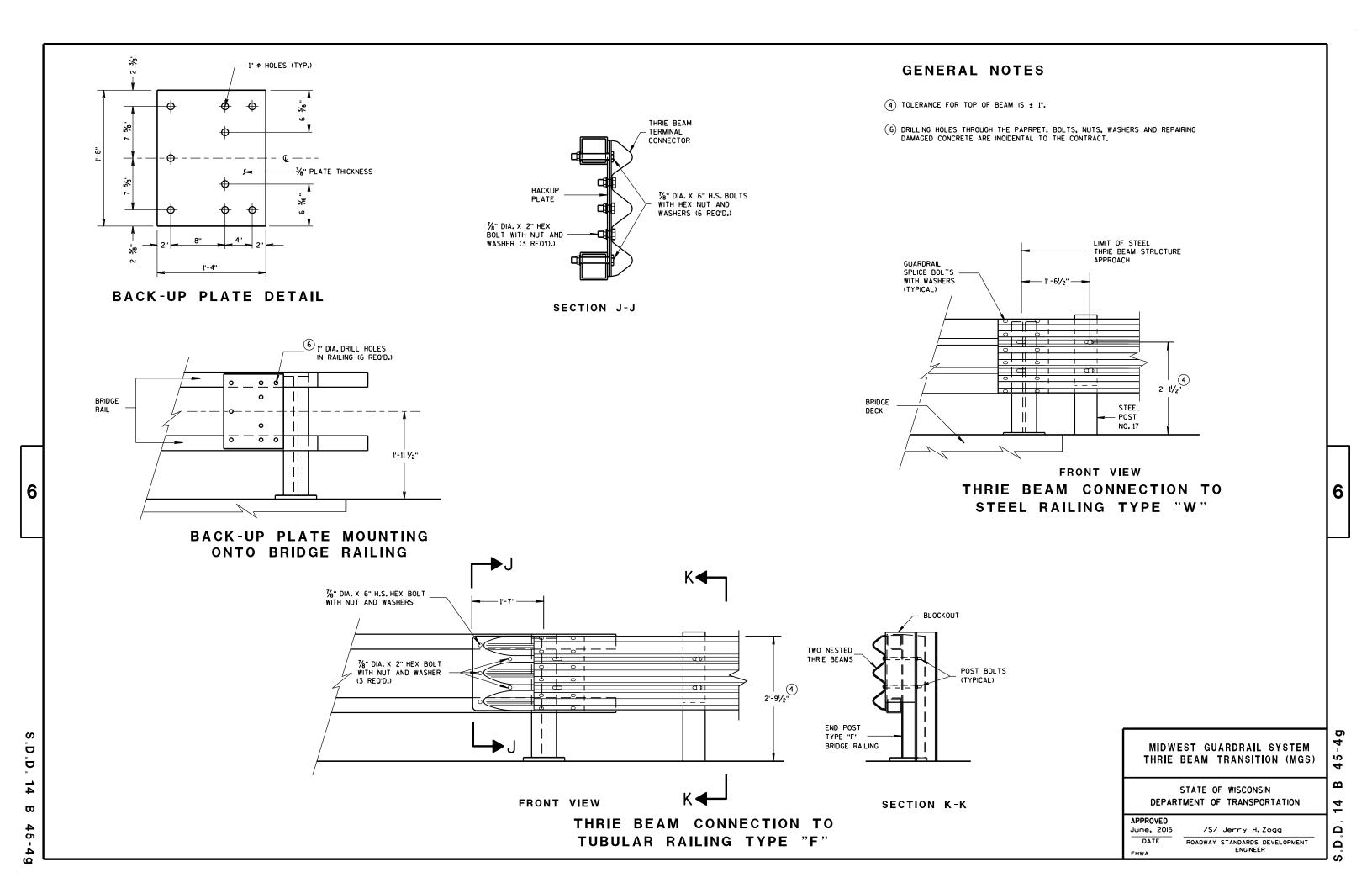
5'-0 1/4" —

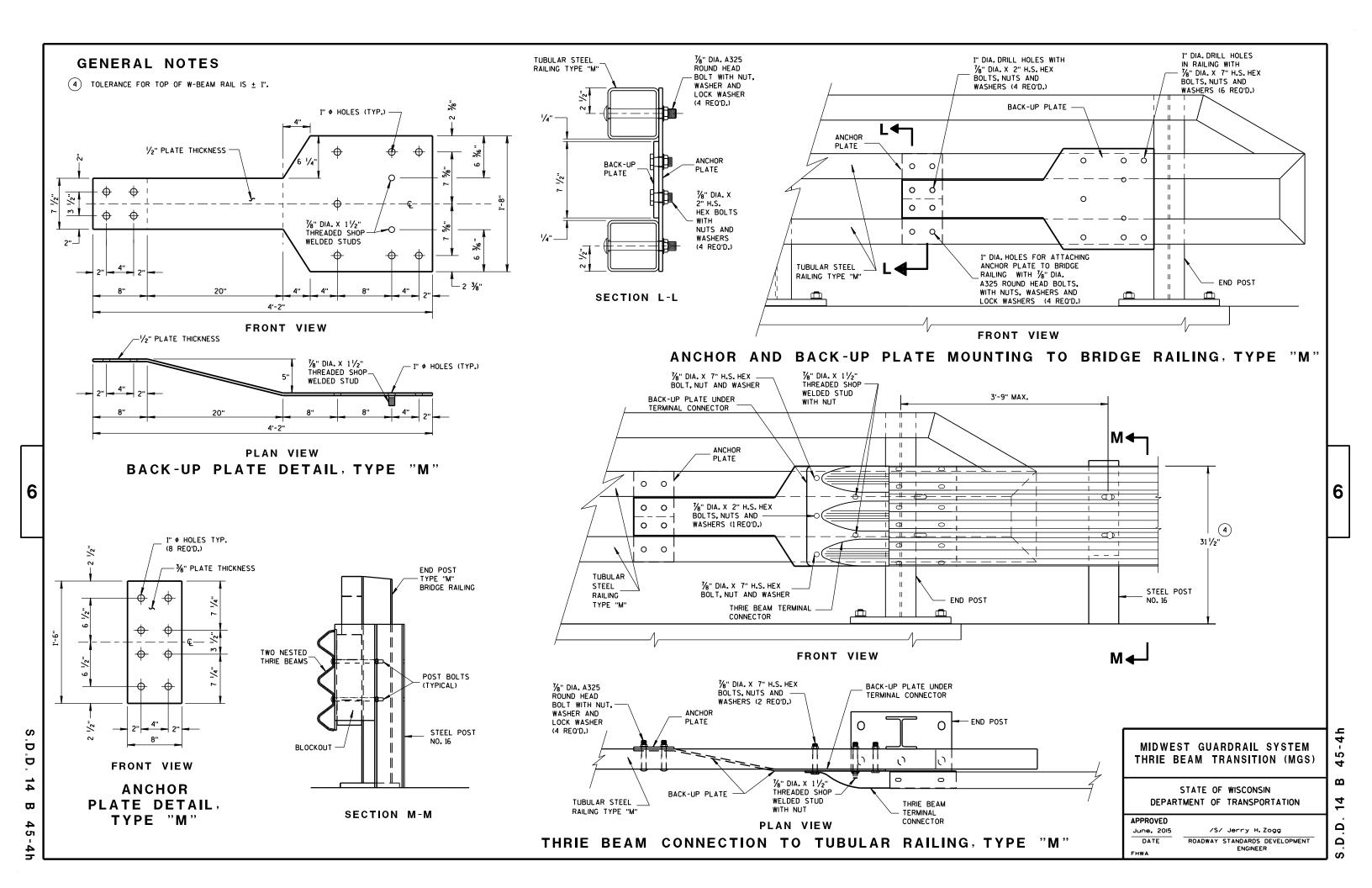
- 3'-1¹/₂"

ROADWAY STANDARDS DEVELOPMENT ENGINEER

S.D







(PER ASSEMBLY)							
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS			
P1	1	в₫	20" × 20"	3/6"			
P2	1	B∱c	20" × 20" × 28%6"	¾6 "			
Р3	1	B&D	39" × 35/8" × 20" × 195/6"	3/6 "			
S1	4	B A	18 % 6" × 3 % " × 18 ¾ "	1/4"			
S2	1	B D	10 ¹ / ₄ " × 2 ⁷ / ₁₆ " × 10 ³ / ₈ " × ¹ / ₂ "	1/4"			
S3	1	B₽₽	3" × 1½6" × 3½" × ½"	1/4"			
S4	1	в₫	61/8" × 21/16"	1/4"			
S5	1	в₾	6½" × ½"	1/4"			
S6	1	в₾	7¾" × 1¾"	1/4"			
S7	1	A DC	2%6" × 6" × 35%" × 57%"	1/4"			
S8	1	4 <u>8</u> 4	1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ "	1/4"			
S9	1	C □ R	6½6" × 6¾6" × 1¾2"	1/4"			
S10	1	A D C	11/8" × 91/8" × 35/8" × 911/16 "	1/4"			
S11	1	c ≜	8½" × 8¾" × 1¼6 "	1/4"			

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SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

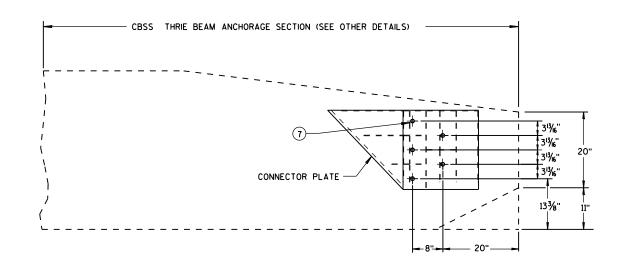
APPROVED	
2015	

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

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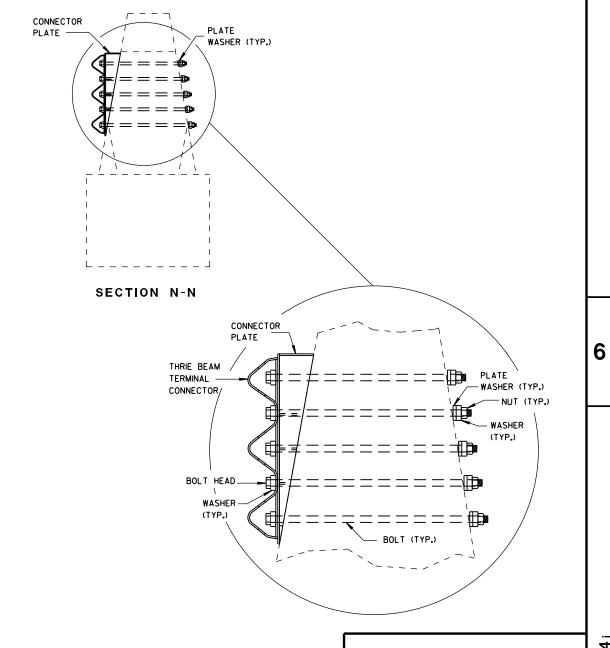


SINGLE SLOPE CONNECTION PLATE PLACEMENT

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.
- 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 %" 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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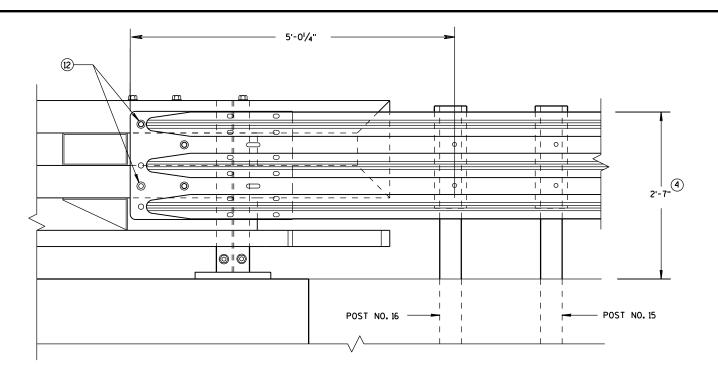
APPROVED
June, 2015 /S.

FHWA

OIS /S/ Jerry H. Zogg

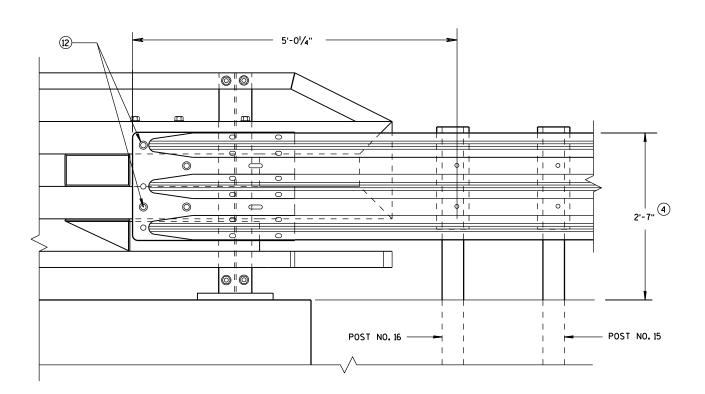
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

S.D.D. 14 B 4



ELEVATION OF DETAIL AT NY3 END POST

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".
- (12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND 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) 6

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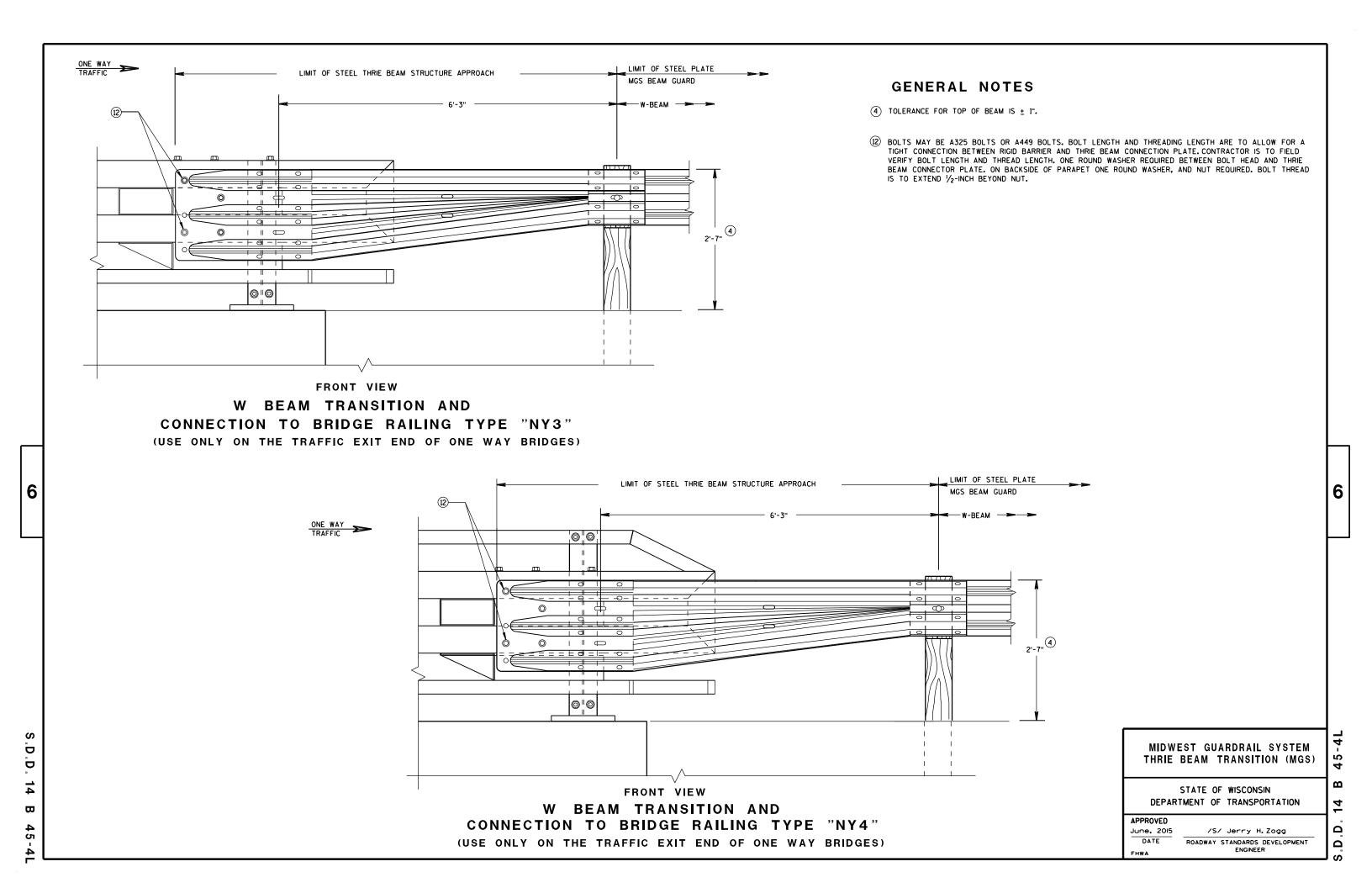
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Jerry H. Zogg June, 2015 DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

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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 SUPPORTS.

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

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE 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, 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". (30" X 15" 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".

- (1) 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
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- 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 SIGNS AS SHOWN.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

2

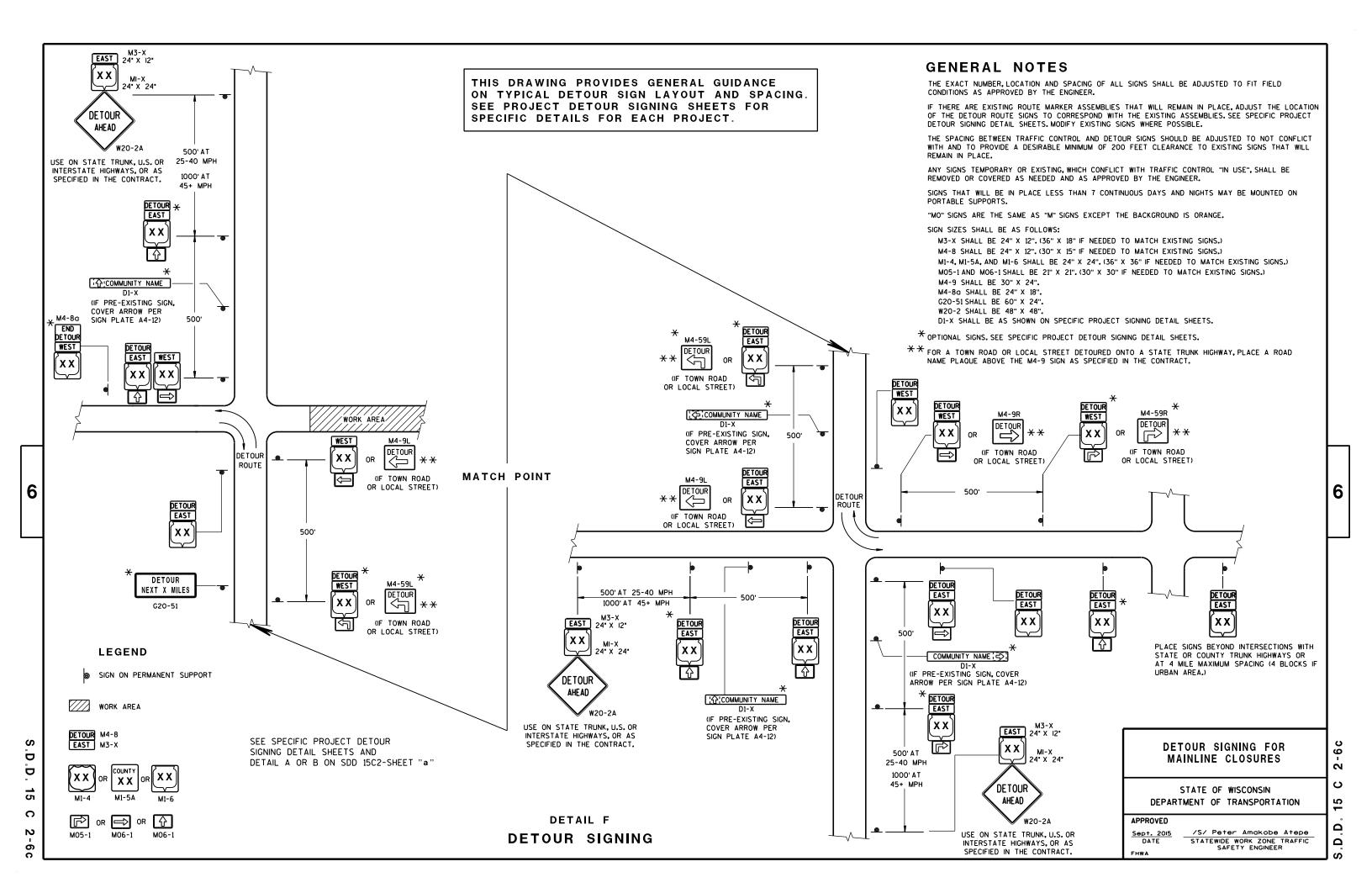
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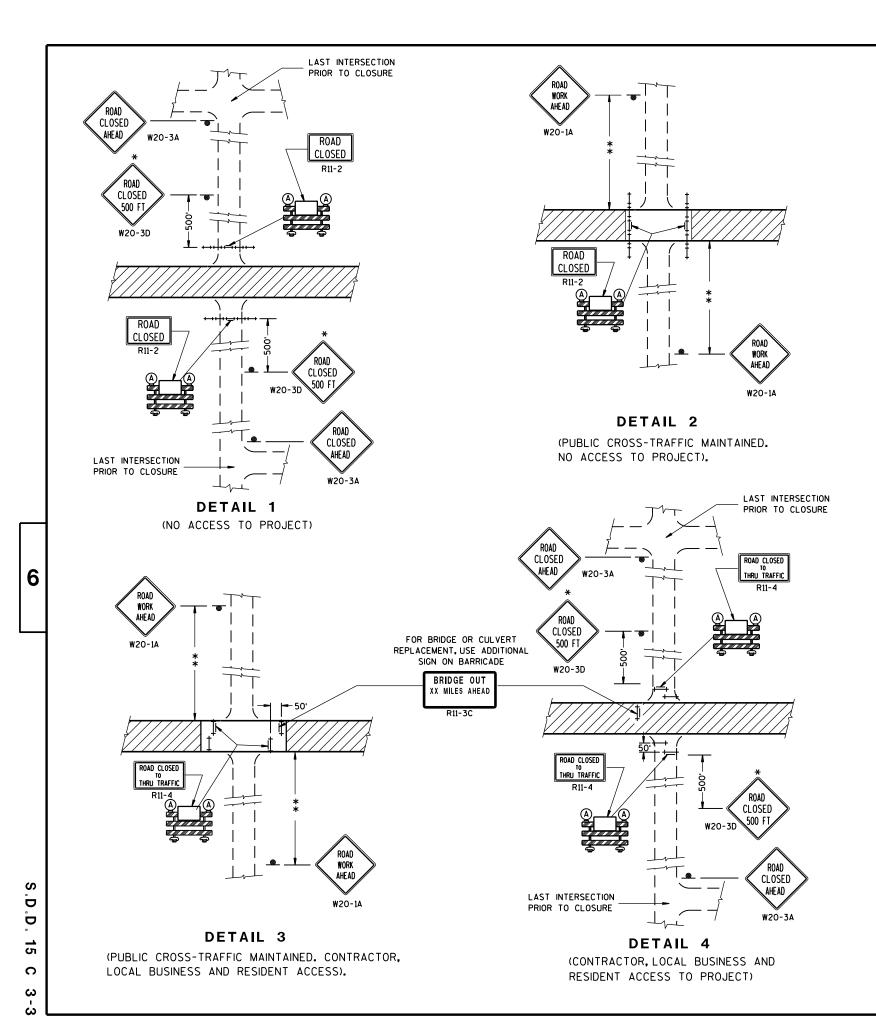
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER





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.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

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 SUPPORTS.

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 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH
ATTACHED SIGN

(A) TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015

DATE
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

S.D.D. 15 C 3

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THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

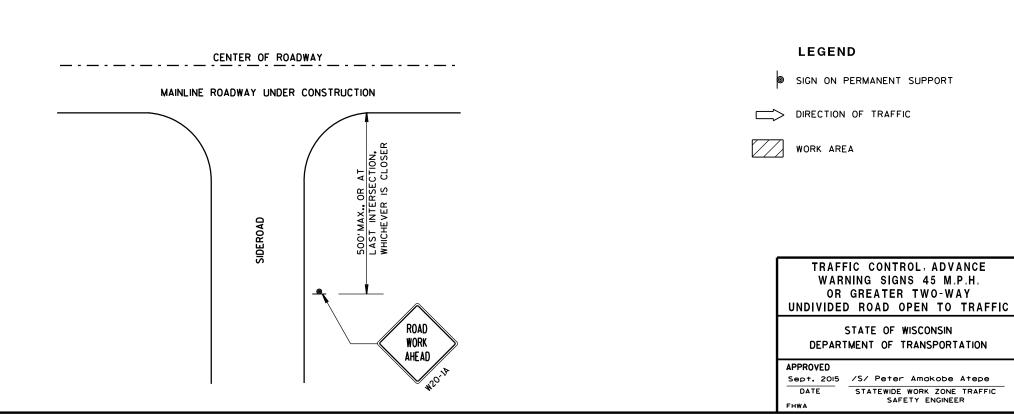
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

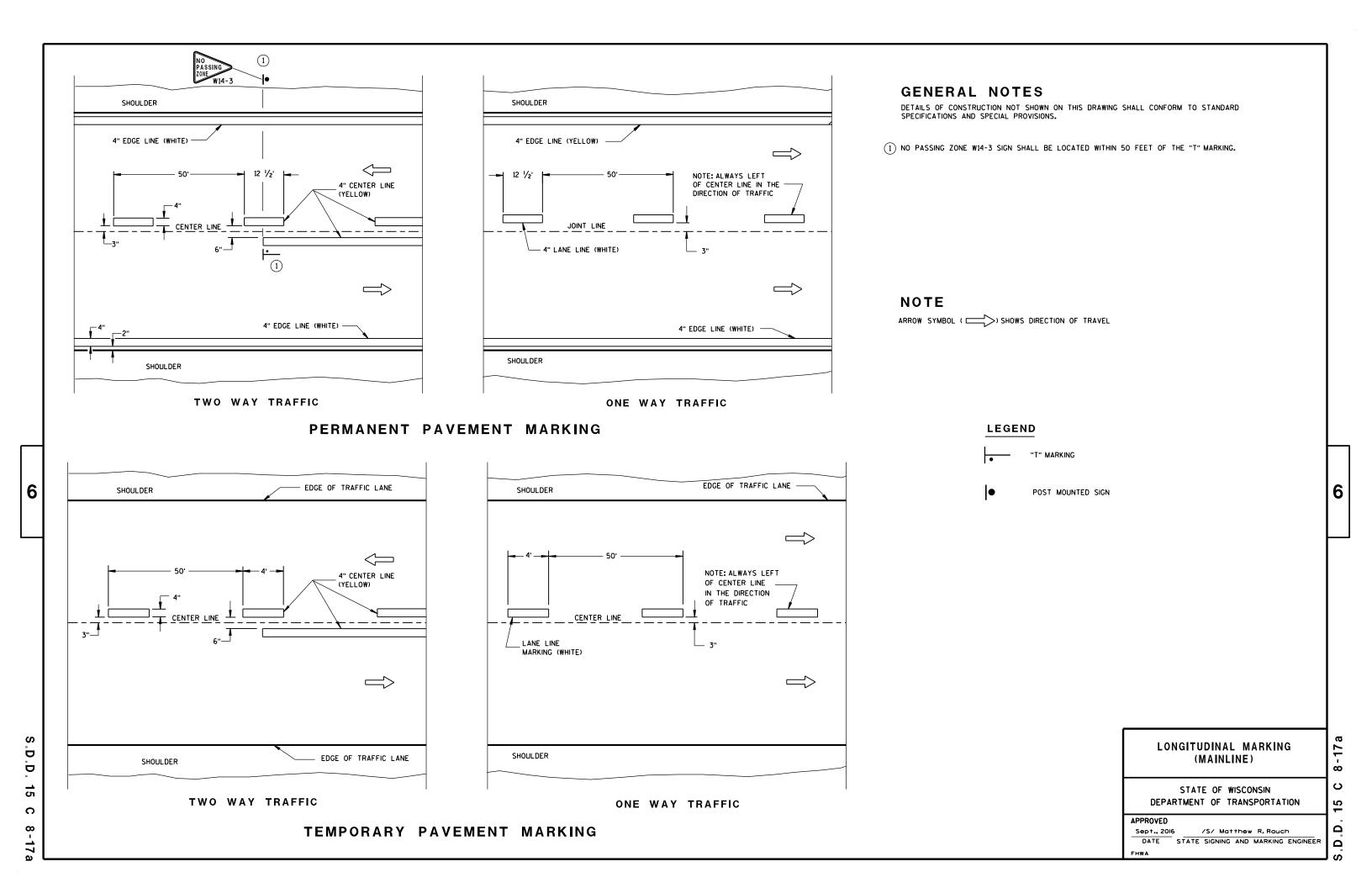
- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- * PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



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SAFETY ENGINEER





TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- * UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.
- 1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

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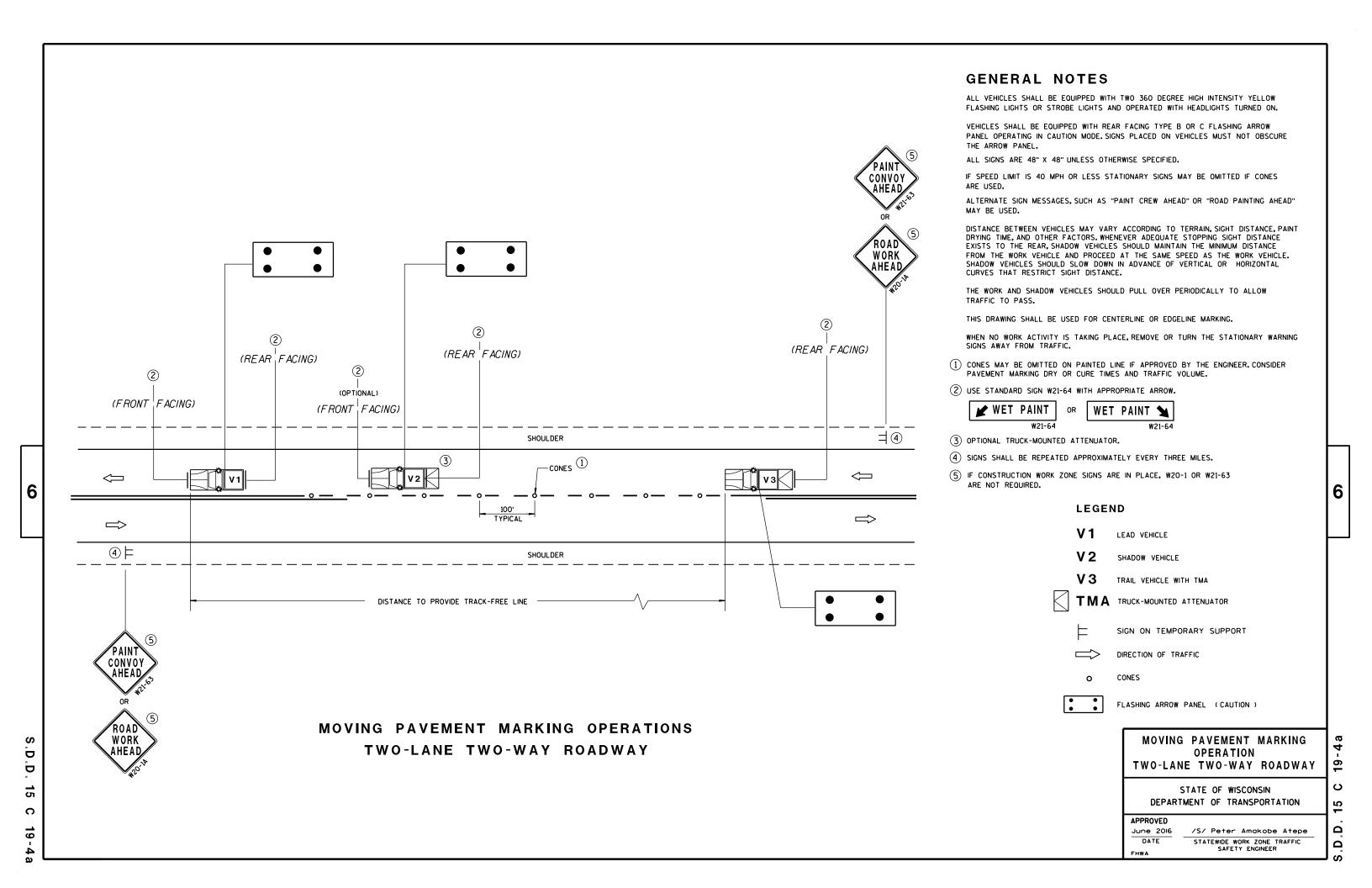
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

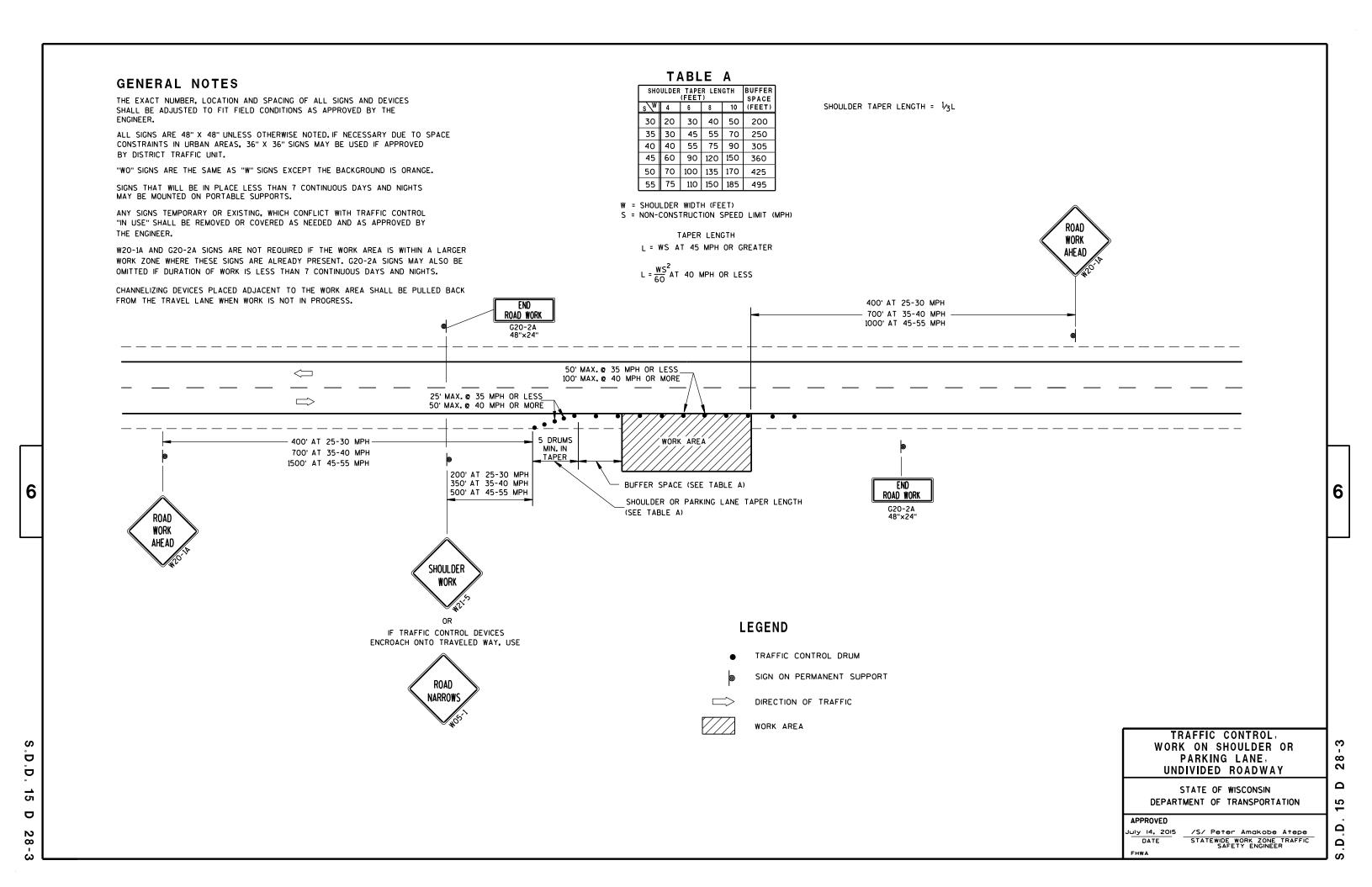
/S/ Andrew Heidtke WORK ZONE ENGINEER

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FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE FLAGGING OPERATION IS NOT IN EFFECT. REMOVE TEMPORARY ACROSS THE LANE AT LOCATIONS SHOWN. RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE APPROVED SIGNING. December, 2016 FHWA





1. Signs are Type II - Type H Reflective - reference WIS DOT Standard

areater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.



PROJECT NO:

J32-1

J22-1

J23-1

J33-1

PLOT BY: mscsja

PLATE NO. __A2-15.8

DATE 2/06/14

SHEET NO:

URBAN ARFA



RURAL AREA (See Note 2)



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



5'-3"(生) D^{-1} Outside Edae of Gravel

White Edgeline Location

** 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.

HWY:

* 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

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 barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is $7'-3''(\pm)$ or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is $7'-3''(\pm)$ or $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is $5' - 3'' (\pm)$.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (\pm) . The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' (\pm).

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

PLATE NO. <u>A4-3.20</u>

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42



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

- 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'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. Minimum mounting height for J assemblies (A2-1S) is 7'-3'' (±) or 6'-3'' (±) per urban or rural detail respectively.
- 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" (±) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- *** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

URBAN AREA RURAL AREA (See Note 3) 2'Min - 4'Max (See Note 6) ₩E# FF# 6'-3"(±) 6'-3"(±) 7'-3"(±) ** Curb ****\ Flowline D **7000** White Edgeline D 11 White Edgeline, Location Outside Edae Location

2' Min - 4' Max (See Note 6) 6'-3"(±) Curb Flowline. -11

48" DIAMOND WARNING SIGN

HWY:

_ 26" 5 ' - 3 "(±) White Edgeline Location Outside Edge of Gravel 48" DIAMOND WARNING SIGN

COUNTY:

Outside Edge

of Gravel

	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)				
L E					
* * *	Greater than 48" Less than 60"	12"			
	60" to 120"	L/5	l		

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)				
L	E			
Greater than 120" less than 168"	12"			

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)					
L	E				
168" and greater	12"				

POST EMBEDMENT DEPTH

of Gravel

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

Matther

SHEET NO:

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

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:23

PLOT SCALE : 107.021305:1.000000

WISDOT/CADDS SHEET 42

PLOT NAME :

PLOT BY: mscj9h

WISCONSIN DEPT OF TRANSPORTATION APPROVED

For State Traffic Engineer

PLATE NO. 44-4.14 DATE 7/23/15



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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

PLOT DATE . 11-416-2016 11:35

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SHEET NO:

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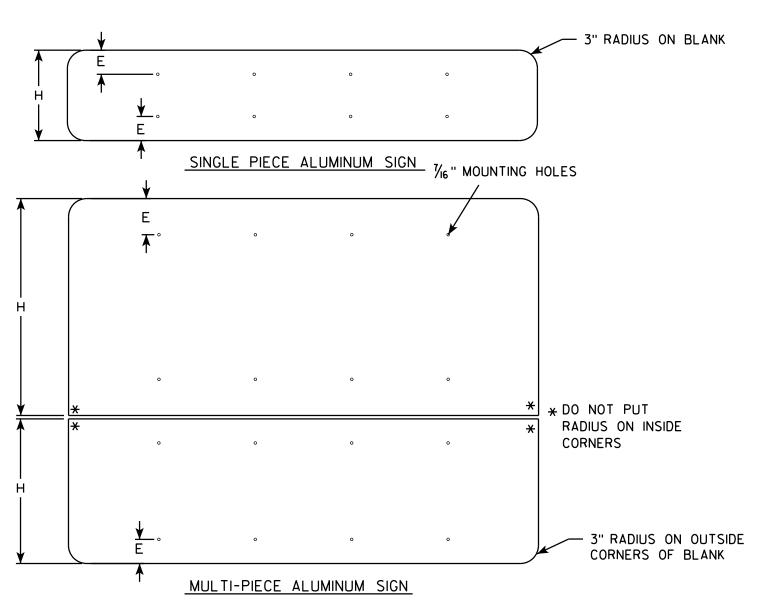
PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

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

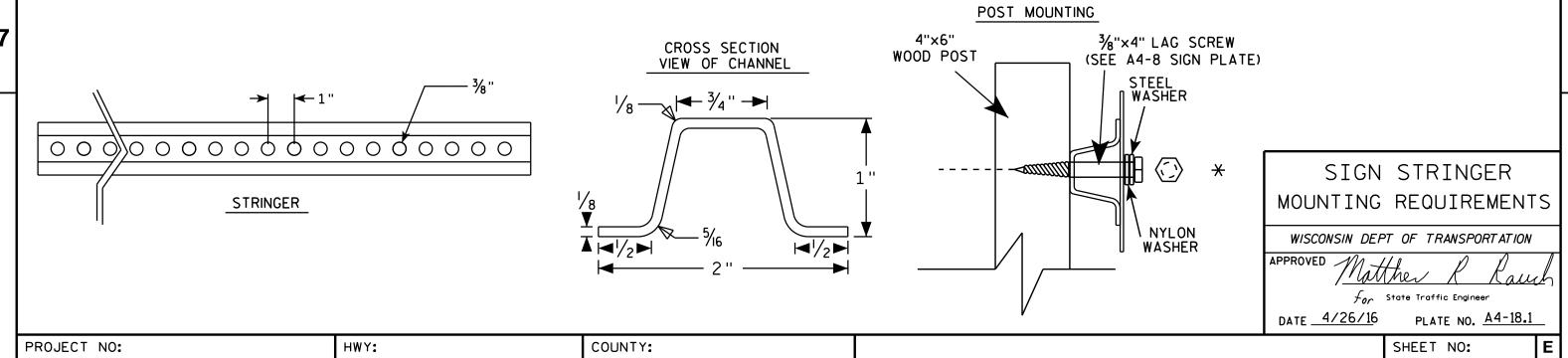
For State Traffic Engineer



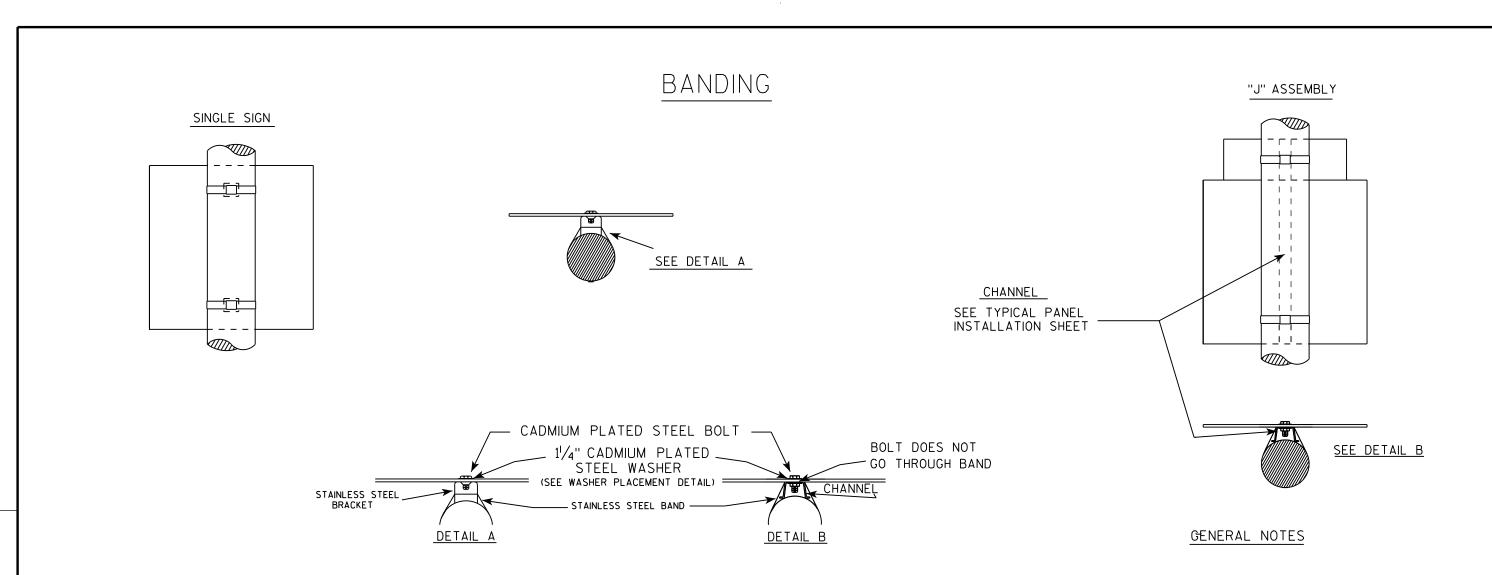


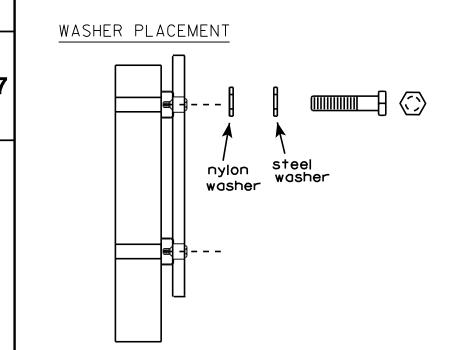
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE $\frac{7}{16}$ " DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING				NTING OLES			
78"	72"	2	16''	15''	31''	47''	63"			
84''	72"	2	17''	161/2"	331/2"	501/2"	6 7 1/21			
90"	7 2"	2	18''	18''	36''	54''	72''			
96"	90"	2	19''	191/2"	381/2''	571/2"	761/21			
102"	90"	2	20"	21''	41''	61''	81''			
108''	90"	2	21''	221/21	' 43 ^l / ₂ ''	641/2"	851/21	1		
114''	108''	3	15''	12''	2 7 ''	42"	5 7 "	7 2"	87"	102"
120''	108''	3	16''	12''	28''	44''	60"	76"	92"	108''
126"	108''	3	17''	12''	29"	46''	63"	80"	97"	114''
132"	126''	3	18''	12''	30"	48"	66"	84"	102"	120''
138''	126''	3	19''	12''	31''	50"	69"	88"	107''	126"
144''	126''	3	20"	12''	32"	52"	72"	92"	112''	132"



PLOT BY: mscj9h





HWY:

WASHERS (ALL POSTS) -

COUNTY:

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 FOR ALL TYPE H SIGNS

PLOT BY: mscsja

- 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.

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED 400 1100 400 400

For State Traffic Engineer

DATE 8/16/13

713 PLATE NO. A5-9.3

SHEET NO:

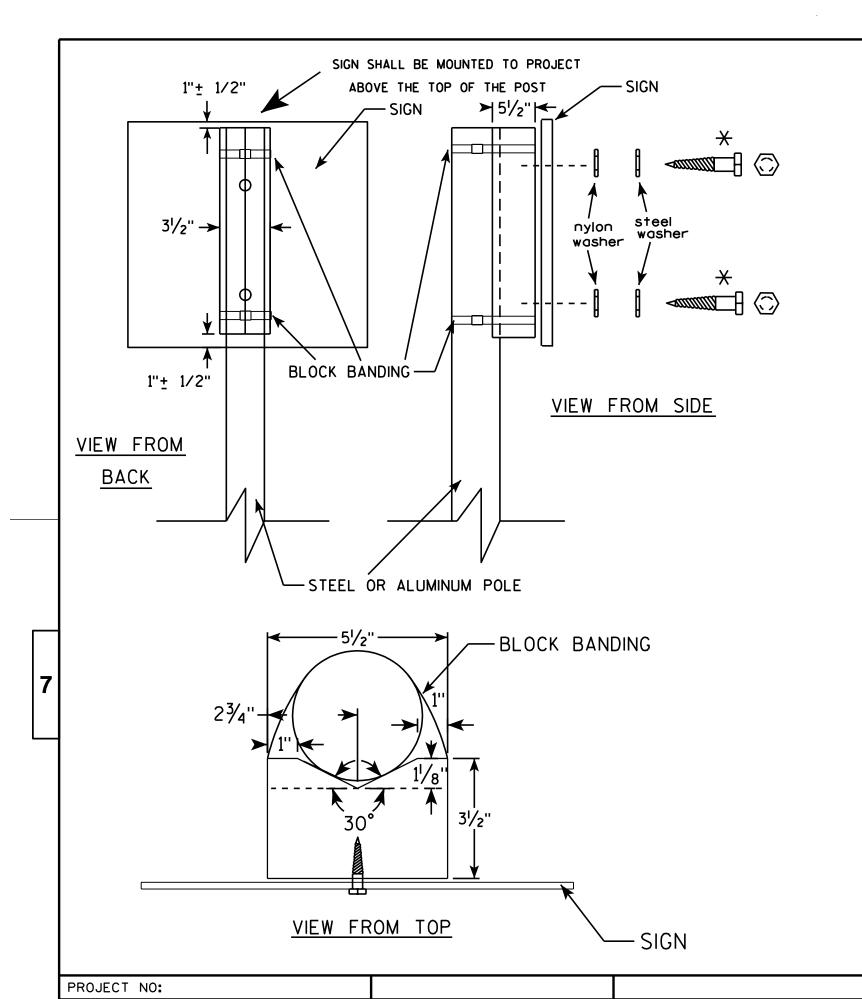
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A59.DGN

PROJECT NO:

PLOT DATE: 16-AUG-2013 13:27

PLOT NAME :

PLOT SCALE: 33.740899:1.000000



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, 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, or
 - b. Cadmium plated in accordance with ASTM Designation: B 766 TYPE 3, Class 12, or
 - c. 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 11/4" 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

X LAG BOLTS SHALL BE 3/8" X 21/2"

BLOCK BANDING DETAIL
(V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

For State Traffic Engineer

DATE 7/12/07

PLATE NO. A5-10.1

SHEET NO:

HWY:

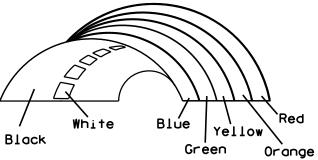
Background Colors of Symbol*

Z F Z

A F X A

₽ 4

* VARIES



*1/4" Black Border between each color of rainbow and border of rainbow

COUNTY:

NOTES

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

Background - White Message - (See Note 5)

- 3. Message Series (See Note 6)
- 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. Border Blue

Line 1 - Red

Line 2 - Black

Line 3-5 - Blue

6. Line 1 - Dutch 8011L

Line 2 - Series E

Line 3-5 - Series C

7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

STANDARD SIGN I55-56

For State Traffic Engineer

DATE 4/27/11 PLATE NO. 15!

ATE 4/27/11 PLATE NO. 155-56.3

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\I5556.DGN

PROJECT NO:

PLOT DATE: 27-APR-2011 10:05

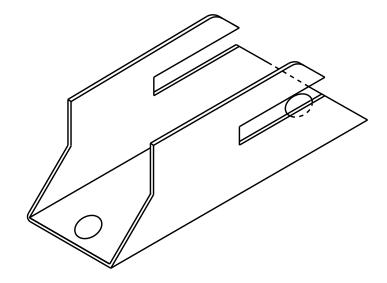
PLOT BY: mscj9h

PLOT NAME :

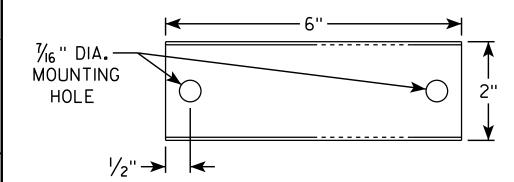
PLOT SCALE: 7.945391:1.000000

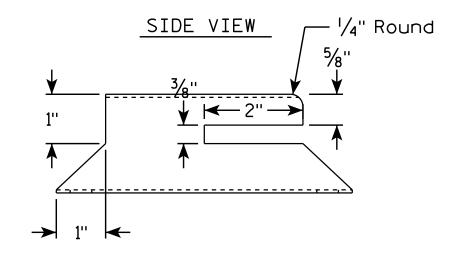
945391:1.000000 WISDOT/CADDS SHEET 42

ISOMETRIC VIEW



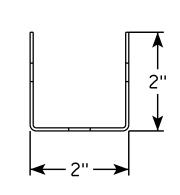
TOP VIEW





HWY:

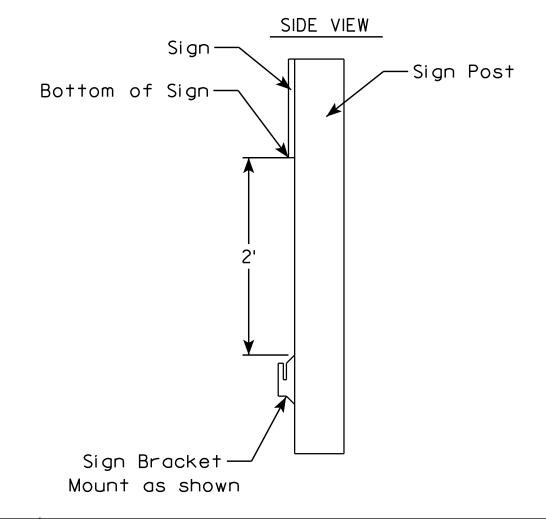
END VIEW



COUNTY:

NOTES

- Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
- 2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
- 3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
- 4. Shall have rounded edges with at least $\frac{1}{8}$ " radii.
- 5. Shall not have unrounded and uncoated metaledges which can contact the back surface of the roll-up sign.
- 6. Top of bracket shall be mounted 2' below the bottom of the 155-56 sign.
- 7. Cost of bracket and fastening hardware shall be incidental to the 155-56 sign.



SHEET NO:

PROJECT NO:

PLOT BY : mscj9h

DATE 4/26/16

PLATE NO.155-56B.2

ROLLUP SIGN BRACKET

155-56B

WISCONSIN DEPT OF TRANSPORTATION

- Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

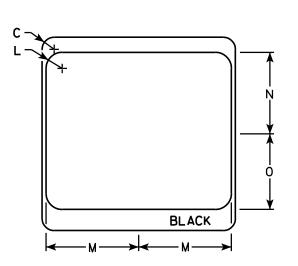
Background - White & Black - See Note 7 Message - Black

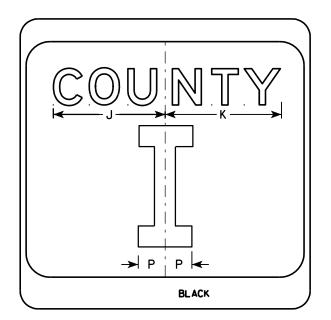
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

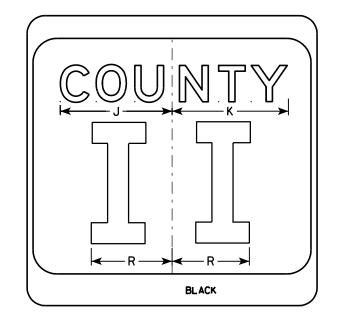
 Message Series D for 2 letters unless
 message is too big then Series C.

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

Background - Type H Reflective Detour or temporary Signs Background - Reflective







SIZE	Α	В	С	D	E	F	G	Н	I	J	K	٦	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	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 %									4.0
3	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
4	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
PRO	IFCT	NO:	·		·	·	Luv	VY:		·	·		COUN	TV•		·				·	·		·				

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther K Rauch

Forstate Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

SHEET NO:

BLACK

M1-5A

PLOT NAME :

PLOT SCALE: 5.959043:1.000000

- 1. Sign is Type II See Note 6 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White & Black - See Note 6 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. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
- 6. Permanent Signs
 Background Type H Reflective
 Detour or temporary Signs
 Background Reflective

J M N BLACK N

		F A H H H
Metric equivalent for this sign is:	M1 - 6	

HWY:

PROJECT NO:

900 mm X 900 mm

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 ½	10 1/4	2 1/2	8 %	11 1/2	1	1 %	11 1/4	21 1/8											4.0	. 36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 ½	2 1/8	16 1/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 ¾	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 ½	2 1/8	16 1/8	33											9.0	. 81

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Cheste J Spang

For State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

SHEET NO:

PLOT NAME :

- 1. Sign is Type II Type H
- 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. M2-1 Background White

Message - Black

MB2-1 Background - Blue

Message - White

MK2-1 Background - Green

Message - White

MM2-1 Background - White

Message - Green

MN2-1 Background - Brown

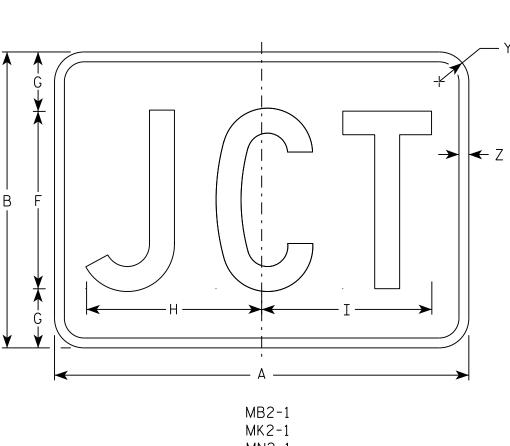
Message - White

MP2-1 Background - White

Message - Blue

MR2-1 Background - Brown

Message - Yellow



MN2-1

MR2-1

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	J	V	W	X	Υ	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 1/8	8 %																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40

COUNTY:

В

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch f_{or} State Traffic Engineer

DATE 10/15/15

PLATE NO. M2-1.12 Ε

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdplote\M21 DGN

PROJECT NO:

M2-1

HWY:

MM2-1

MP2-1

PLOT DATE . 01-DEC-2015 17:54

PLOT BY . \$\$ Diotuser \$\$ PLOT NAME :

PLOT SCALE • 4 864603•1 000000







MP3-1









HWY:



NOTES

- 1. All Signs Type II Type H
- 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.

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

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 **SERIES**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15 PLATE NO. M3-1.14

Ε

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000

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

) A G	
	;
→ G →	
Y	

Α С E F G H I J S Х Z D 0 10 10 1/4 1 1/8 3/8 3/8 24 2.0 3 36 1 1/8 3/8 1/2 4 1/2 14 5/8 14 1/2 4.5 4 5

COUNTY:

STANDARD SIGN M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 11/10/10 PLATE NO. M4-8.2

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48.DGN

PROJECT NO:

HWY:

PLOT DATE: 10-NOV-2010 13:18

PLOT BY : ditjph

PLOT SCALE : 4.767

PLOT NAME :

PLOT SCALE: 4.767233:1.000000

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

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.

 $D \longrightarrow$ Н M4-8A

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	w	Х	Y	Z	Area sq. ft.
$\parallel 1 \parallel$																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5				·	·						·				·												

COUNTY:

STANDARD SIGN M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther

For State Traffic Engineer DATE 3/9/11

PLATE NO. M4-8A.2

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48A.DGN

HWY:

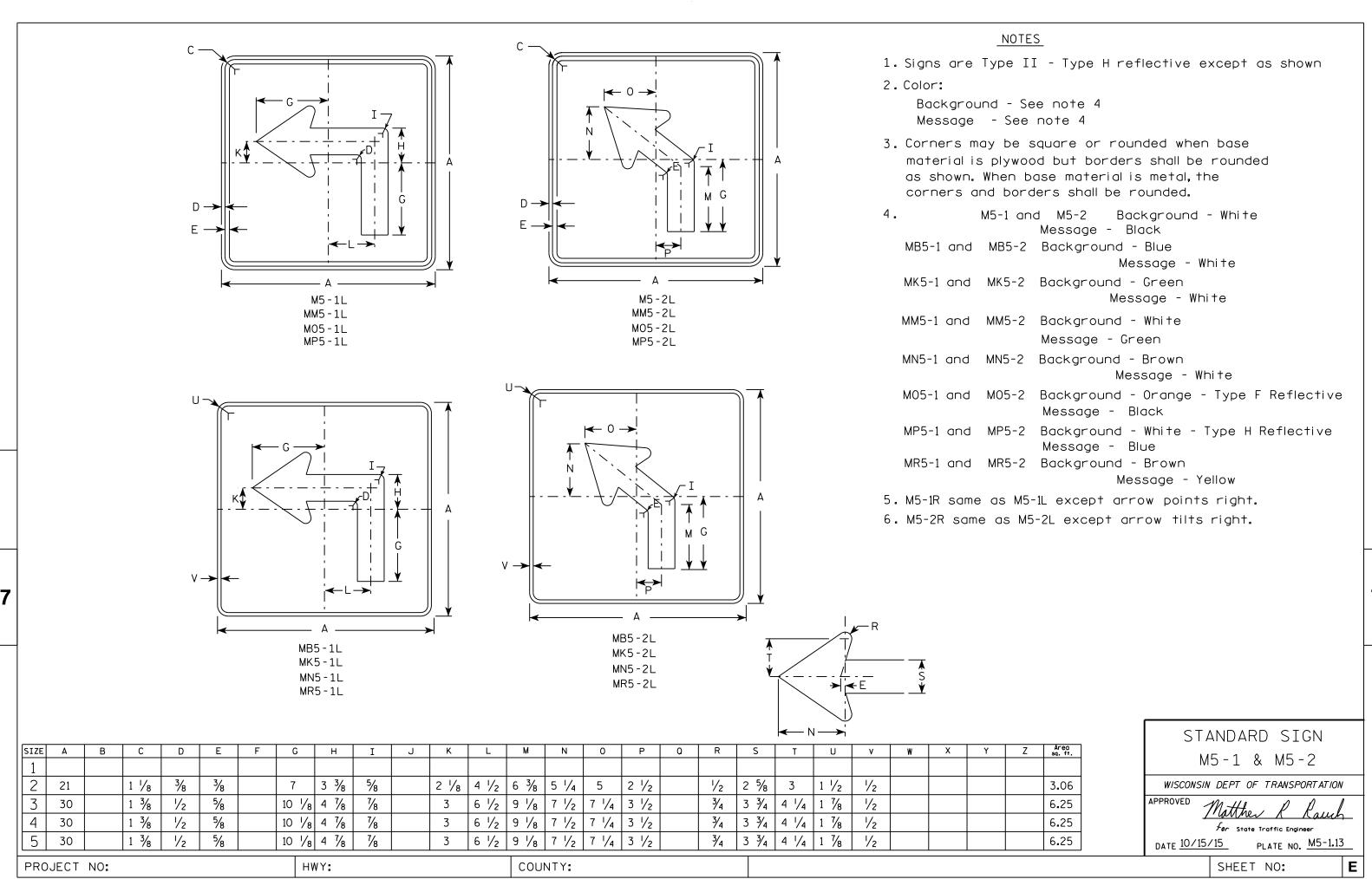
PROJECT NO:

PLOT DATE: 09-MAR-2011 10:29

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 3.972696:1.000000



FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

PLOT DATE . 01-DEC-2015 18:07

PINT RY . \$\$ DIOTUSET \$\$ PINT NAMF :

PLOT SCALE . 11 675051.1 000000







MR6-1

HWY:



NOTES

- 1. Signs are Type II Type H 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



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1 1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 %	1/2						1 1/2	1/2					3.06
3	30		1 3/8	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 1/8	1/2					6.25
4	30		1 3/8	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 1/8	1/2					6.25
5	30		1 3/8	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 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rawl For State Traffic Engineer

Ε

DATE 10/15/15 PLATE NO. M6-1.15

SHEET NO:

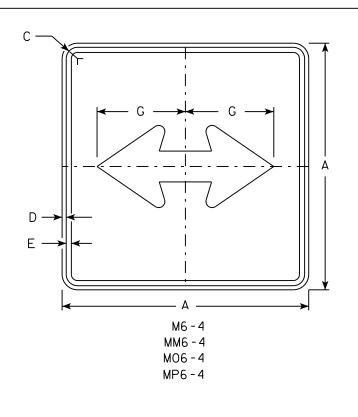
FILE NAME · C·\CAFfiles\Projects\tr stdplote\M61 DCN

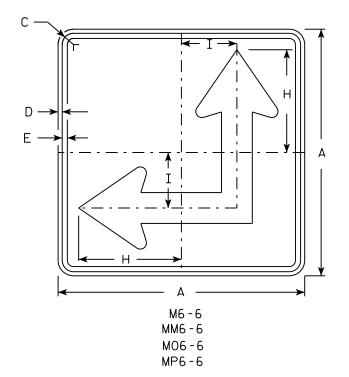
PROJECT NO:

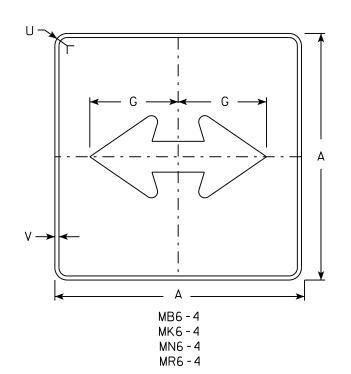
PLOT DATE . 01-DEC-2015 17:57

PIOT RY . \$\$ plotuser \$\$ PIOT NAMF :

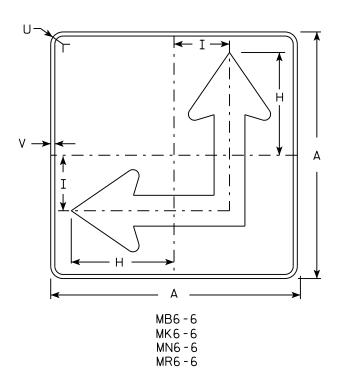
PLOT SCALE . 11 675051.1 000000







HWY:



NOTES

- 1. Signs are Type II Type H 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. M6-4 and M6-6 Background White Message - Black

MB6-4 and MB6-6 Background - Blue

Message - White

MK6-4 and MK6-6 Background - Green

Message - White

and MM6-6 Background - White MM6-4

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

M06-4 and M06-6 Background - Orange - Type F Reflective

Message - Black

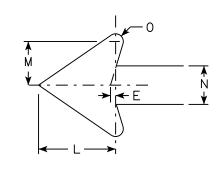
MP6-4 and MP6-6 Background - White

Message - Blue

MR6-4 and MR6-6 Background - Brown

Message - Yellow

5. M6-6R same as M6-6L except arrow points ahead and right.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	a	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
																											==

COUNTY:

STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 10/15/15

PLATE NO. M6-4.10 Ε

PLOT DATE . 01-DEC-2015 17.58

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000

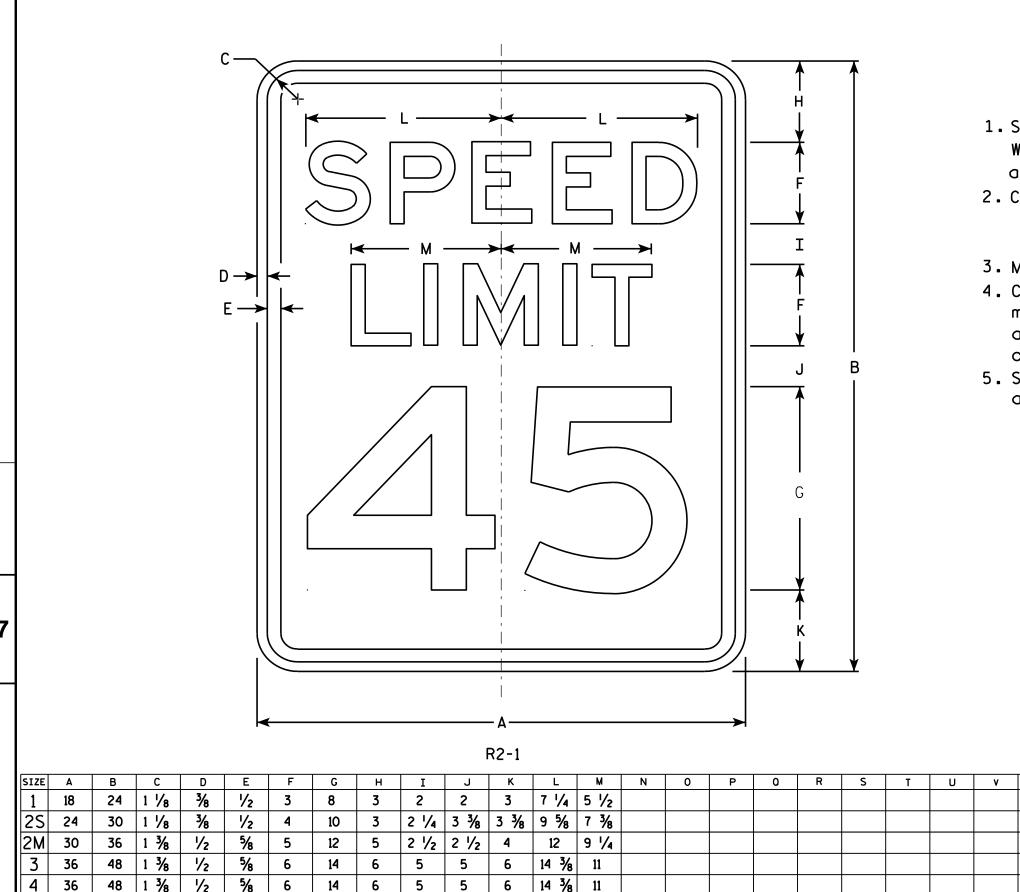
PROJECT NO:

NOTES 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. 2. Color: Background - Red Message - White 3. Message Series - C R1-1 SIZE A STANDARD SIGN 30 5/8 10 12 1/2 45° 12 3/4 5.18 2S 30 5/8 12 1/2 45° 12 3/4 10 5.18 R1-1 2M 36 3/4 12 15 45° 15 % 7.46 3/4 15 3/8 12 45° 36 15 7.46 WISCONSIN DEPT OF TRANSPORTATION 45° 20 1/2 48 16 20 13.25 APPROVED Matthew & Kauch 5 48 16 20 45° 20 1/2 13.25 3/8 7 3/4 45° 7 3/4 1.86 18 6 For State Traffic Engineer 12 1/4 4 45° 5 1/8 0.78 DATE <u>11/12/15</u> PLATE NO. _____R1-1.13 COUNTY: SHEET NO: PROJECT NO: HWY: PLOT SCALE • 4 378143•1 000000

FILE NAME · C·\CAFfiles\Projects\tr stdplote\R11 DGN

PLOT DATE . 01-DEC-2015 18:07

PINT RY . \$\$ plotuser \$\$ PINT NAMF :



4 1/2 6 3/4 6 3/4 19 1/4 14 5/8

COUNTY:

20

HWY:

6

NOTES

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

Background - White Message - Black

- 3. Message Series E
- 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 and optically adjust spacing to achieve proper balance.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION APPROVED

Matther R Raus For State Traffic Engineer PLATE NO. R2-1.13

DATE <u>5/26/1</u>0

SHEET NO:

2 1/4

60

5

48

PROJECT NO:

PLOT NAME :



- 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

SIZE A В С D Е G 5/8 1 3/8 1/2 1 1/8 | 15 1/4 | 8 10 3/4 8 3/8 4 3/4 6 3/4 36 18 4 3 2 1/2 2 2 11 1/8 6 1/2 2 7 1/8 4.5 1/2 17 3/8 13 1/8 30 $1\frac{3}{8}$ 5/8 4 1/4 3 3/8 16 5/8 1 1/2 23 | 13 1/4 | 1 3/4 3 1/2 11 1/8 12.5 6 10 11 2M 4 1/4 3 3/8 16 5/8 1 1/2 23 | 13 1/4 | 1 3/4 30 17 3/8 13 1/8 10 3 1/2 12.5 3 4 5

COUNTY:

STANDARD SIGN R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch DATE 3/15/17 PLATE NO. R11-3.8

SHEET NO:

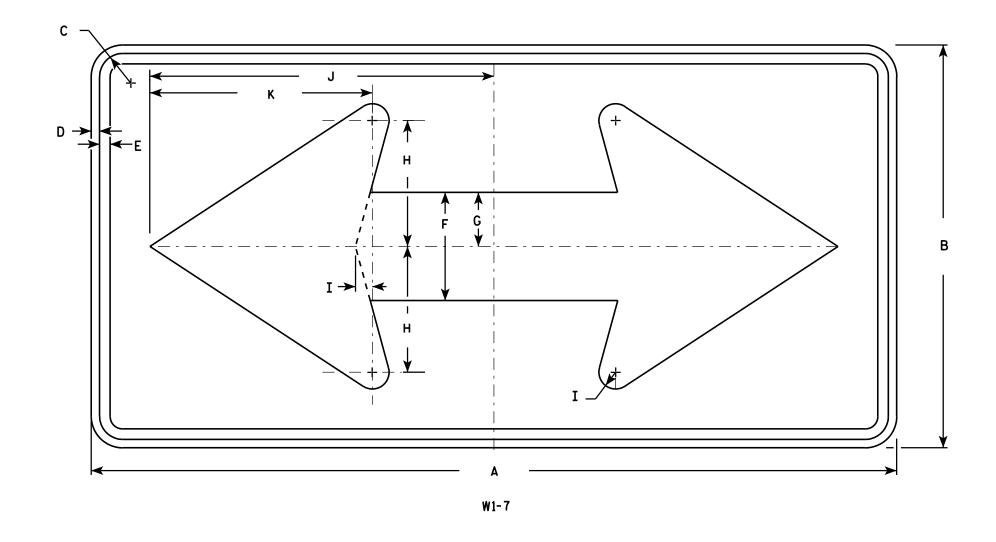
HWY:

PROJECT NO:

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

Background - Yellow Message - Black

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.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Area sq. ft.
1	36	18	1 1/8	3⁄8	1/2	5	2 1/2	5 ¾	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/3	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

COUNTY:

STANDARD SIGN W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W17.DGN

PROJECT NO:

HWY:

PLOT DATE: 07-JUN-2010 12:35

PLOT BY : ditjph

PLOT NAME :

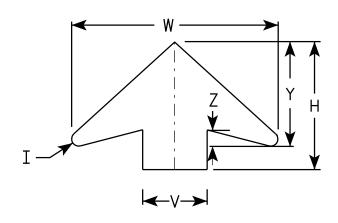
PLOT SCALE: 5.720679:1.000000

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

 Background YELLOW*

 Message BLACK
- 3. Message Series C for numbers Series E for wording
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft
1																											
25	36		1 1/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
2M	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
3	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3∕8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	1 /8	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9 3/8	12	8	25 %	3∕8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7 ⁄8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN W3-5

WISCONSIN DEPT OF TRANSPORTATION

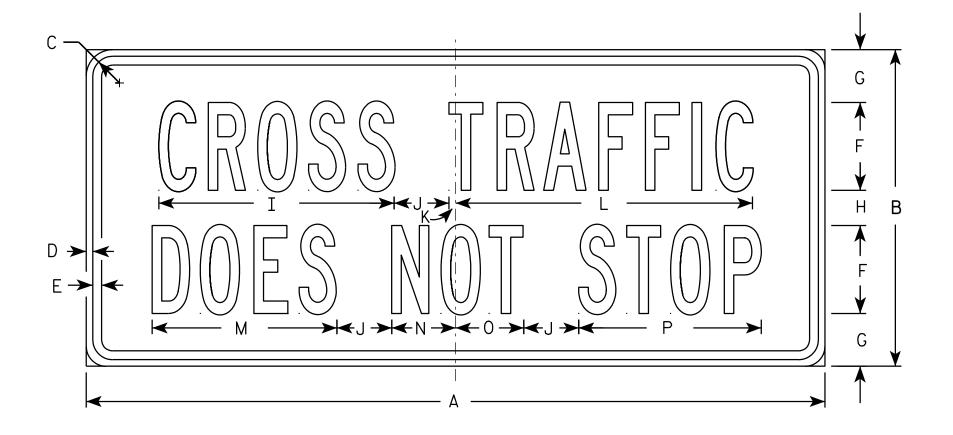
APPROVED

Matther R Rauch.

DATE 5/29/12 PLATE NO. W3-5.5

SHEET NO:

PROJECT NO:



W4-4P

NOTES

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

Background - Yellow 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 2S 2M 2 1/4 1 1/2 1 1/2 6 1/4 2 1/4 2 1/4 6 1/4 24 1 1/8 2.0 12 6 1/4 2 1/4 2 1/4 6 1/4 24 2 1/4 1 1/2 1 1/2 2.0 3 2 5/8 10 3/4 2 3/8 13 1/2 8 3/8 3 1/8 8 3/8 36 15 3.75 4 1 1/8 16 \(\frac{7}{8} \) 10 \(\frac{1}{2} \) 3 \(\frac{5}{8} \) 3 \(\frac{7}{8} \) 10 \(\frac{3}{8} \) 42 13 3/8 | 3 1/8 | 5.25 18 5

COUNTY:

STANDARD SIGN W4-4P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED /

Matthew R

DATE 03/12/13

/13 PLATE NO. W4-4P.2

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W44P.DGN

PROJECT NO:

HWY:

PLOT DATE: 12-MAR-2013 11:42

PLOT BY: mscsja

PLOT SC

PLOT NAME :

PLOT SCALE : 5.458200:1.000000



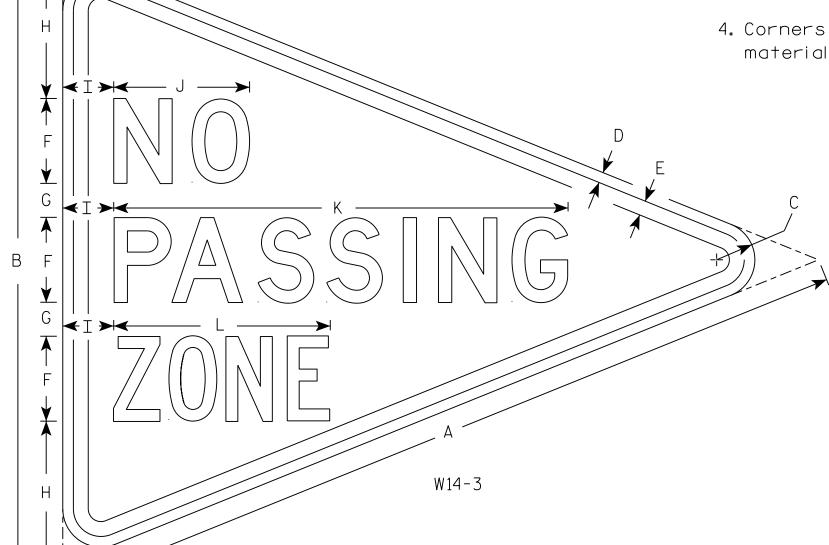
- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow

Message – Black

3. Message Series - Lines 1 and 2 are Series D. Line 3 is series C.

4. Corners and borders shall be rounded on all base materials for this sign.



			,																								
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	<i>7</i> ⁄8	5	2	8 ½	3	8	26 ¾	12 3/4															5 . 56
2M																											
3																											
4																											
5																											
PRC	JECT	NO:					Н	WY:					COL	INTY:													

STANDARD SIGN W14-3

WISCONSIN DEPT OF TRANSPORTATION

500 3/21/17

E 3/21/17 PLATE NO. W14-3

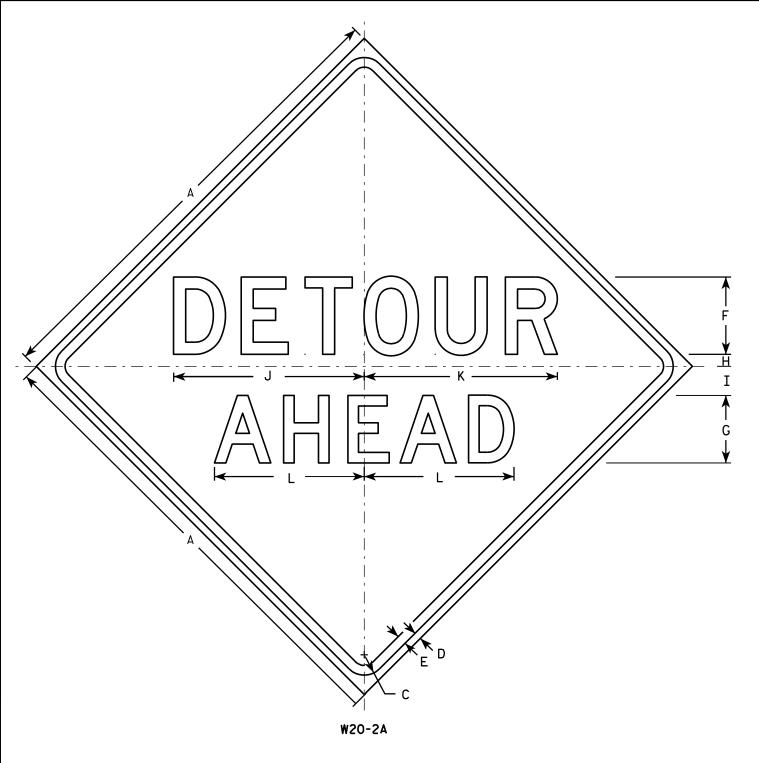
SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W143.DGN

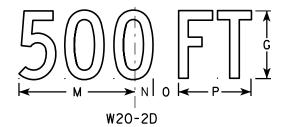
PLOT DATE: 21-MAR-2017 08:48

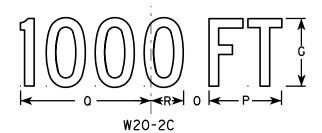
PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

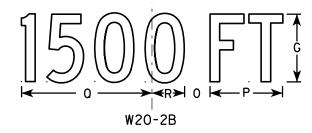
PLOT SCALE: 5.650195:1.000000

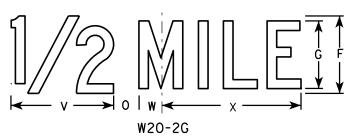


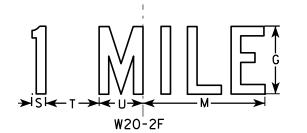
HWY:











PLOT BY: mscj9h

NOTES

- Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 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	. Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 1/8	5/8	₹4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 1/8	5 %	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
3	48		2 1/4	₹4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
4	48		2 1/4	₹4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
5	48		2 1/4	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

COUNTY:

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

WISCONSIN DEPT OF TRANSPORTATION

DATE 3/18/11 PLATE NO. W20-2.6

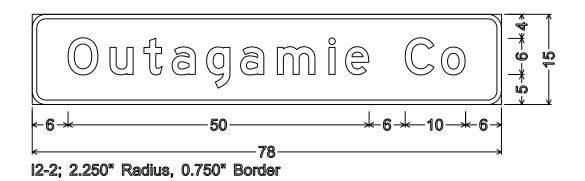
SHEET NO:

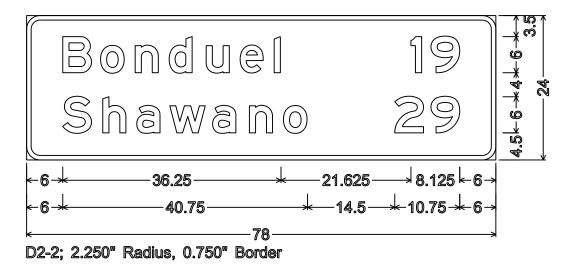
PROJECT NO:

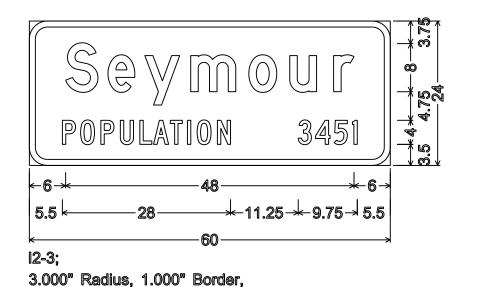
- 1. All Signs Type II Type H Reflective
- 2. Color:

Background - Green Message - White

3. Message Series - E







PROJECT NO: 6570-08-71

HWY: STH 55

COUNTY: OUTAGAMIE

PERMANENT SIGNING

SHEET NO:

WISDOT/CADDS SHEET 42

FILE NAME : C:\CAEfiles\Projects\tr_d3\3441a117.DGN

PLOT DATE: 25-JAN-2017 11:19

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

"Seymour" D; "POPULATION" C; "3451" C

EARTHWORK SUMMARY

CATEGORY 0010

		****205.0100	****	***	****	***	****	****208.0100	
		Common Excavation	Available	Unexpanded	Expanded	Mass Ordinate	Waste	Borrow	
From/To Station	Location	(1)	Material	Fill	Fill	+/-			
		Cut (2)	(5)		(13)	(14)			
		CY	CY	CY	CY	CY	CY	CY	Comment:
130+45 - 135+55	STH 55	42	42	77	96	-54	0	54	BEAMGUARD
305+23 - 309+65	STH 55	30	30	27	34	-4	0	4	BEAMGUARD
334+96 - 340+57	STH 55	110	110	5	7	104	104	0	BEAMGUARD
	SUBTOTAL	183	183	110	137	46	104	58	
P	ROJECT TOTALS	183						58	

**** FOR INFORMATION ONLY

Notes:

- (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 = 1.5
- (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.

9

9

PROJECT NO: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAMIE EARTHWORK SHEET: ⁵⁷ **E**

FILE NAME : PLOT DATE : 3/21/2017_____ PLOT BY : K. VOGEL PLOT NAME : _____ PLOT SCALE : 1:1

		AREA (SF	-)	Incremental Vol (CY) (Unadjus	sted)	Cumulative Vol (CY)		
	[Expanded	
		Cut	Fill	Cut	Fill	Cut	Fill	Mass Ordinate
STATION	Distance					1.00	1.25	
				Note 1	Note 3	Note 1		Note 8
130+44.9	0.00	4.25	0.00	0	0	0	0	0
130+53.94	9.04	2.21	24.90	1	4	1	5	-4
130+69.34	15.40	2.12	27.76	1	15	2	24	-22
130+82.16	12.82	1.88	12.61	1	10	3	36	-33
131+00	17.84	1.61	13.90	1	9	4	47	-42
131+09.49	9.49	1.50	2.86	1	3	5	51	-46
131+32.3	22.81	3.35	3.87	2	3	7	54	-47
131+57.22	24.92	4.03	2.51	3	3	10	58	-47
131+81.87	24.65	1.35	0.73	2	1	13	60	-47
132+00	18.13	1.38	0.42	1	0	14	60	-46
132+08.86	8.86	1.44	0.22	0	0	14	60	-46
132+30.57	21.71	0.90	0.26	1	0	15	61	-45
133+09.38	78.80	0.00	0.00	1	0	17	61	-44
133+16.83	7.45	4.62	0.00	1	0	17	61	-44
133+57.21	40.38	3.90	0.00	6	0	24	61	-37
133+82.22	25.01	3.10	8.03	3	4	27	66	-39
134+21.68	39.46	3.20	11.26	5	14	31	83	-52
134+63.02	41.34	4.48	0.60	6	9	37	95	-57
135+00.06	37.04	1.08	0.51	4	1	41	96	-54
135+54.5	54.44	0.00	0.00	1	1	42	96	-54

|9|

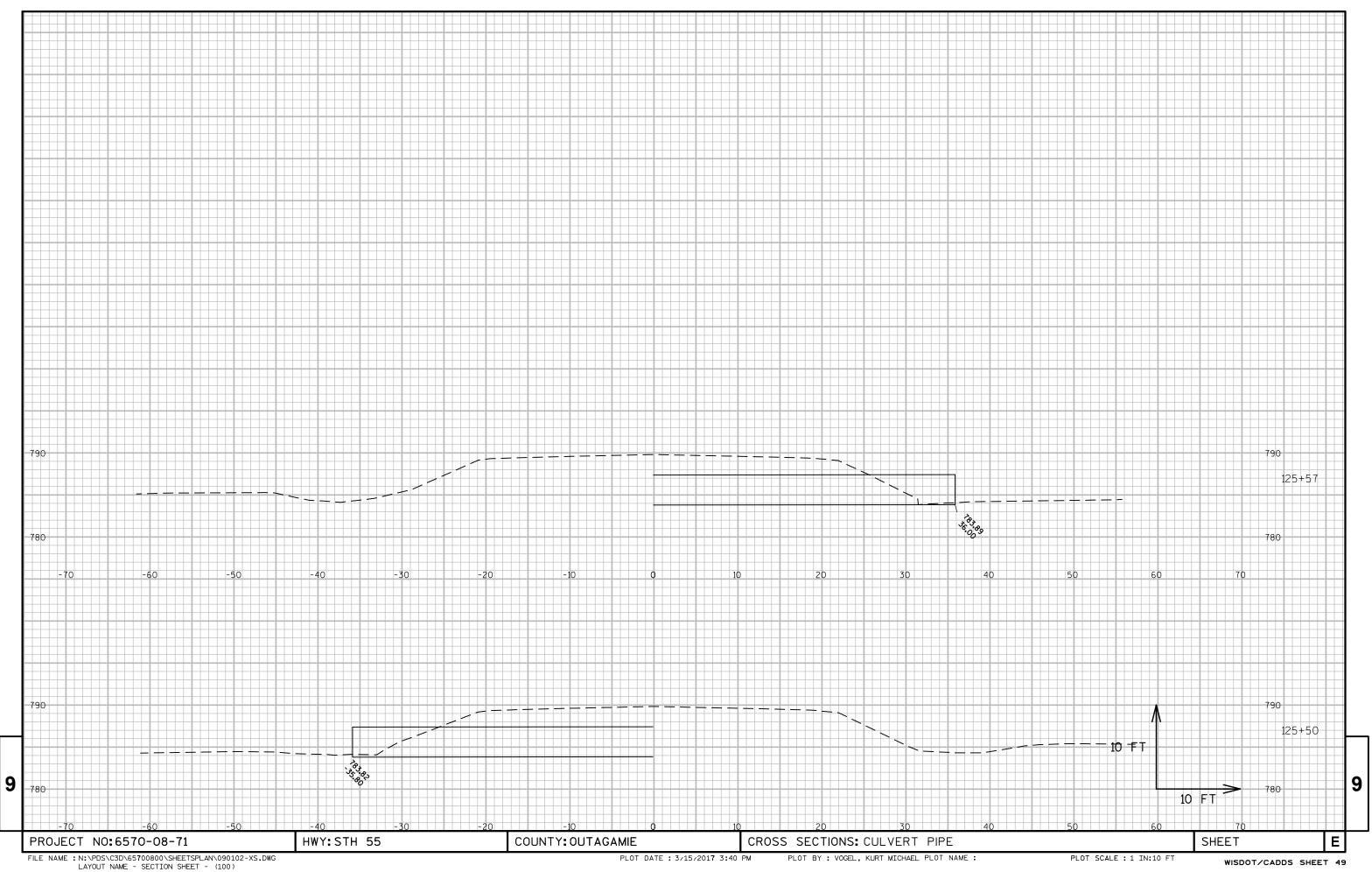
9

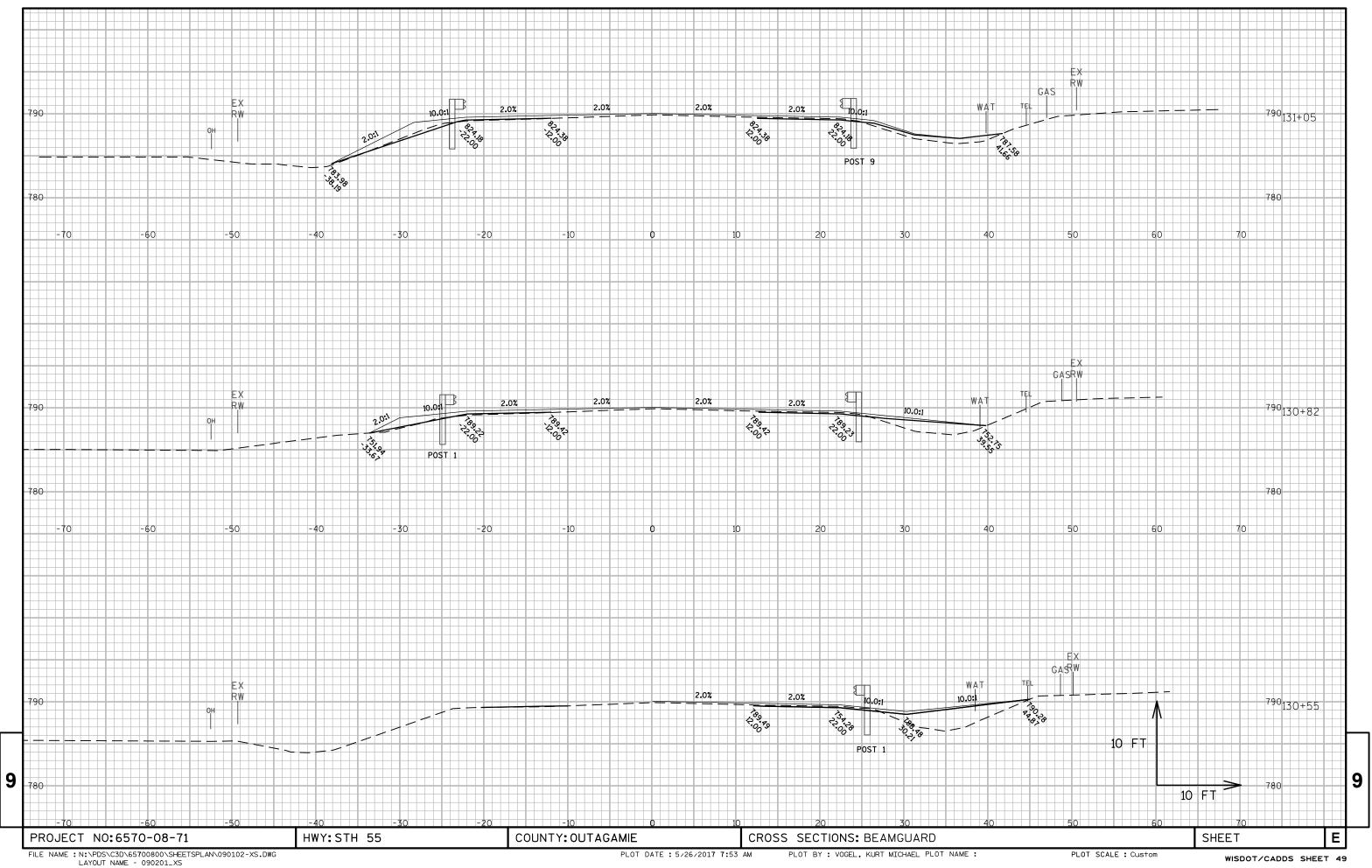
PROJECT NO: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAMIE EARTHWORK SHEET: ⁵⁸ **E**

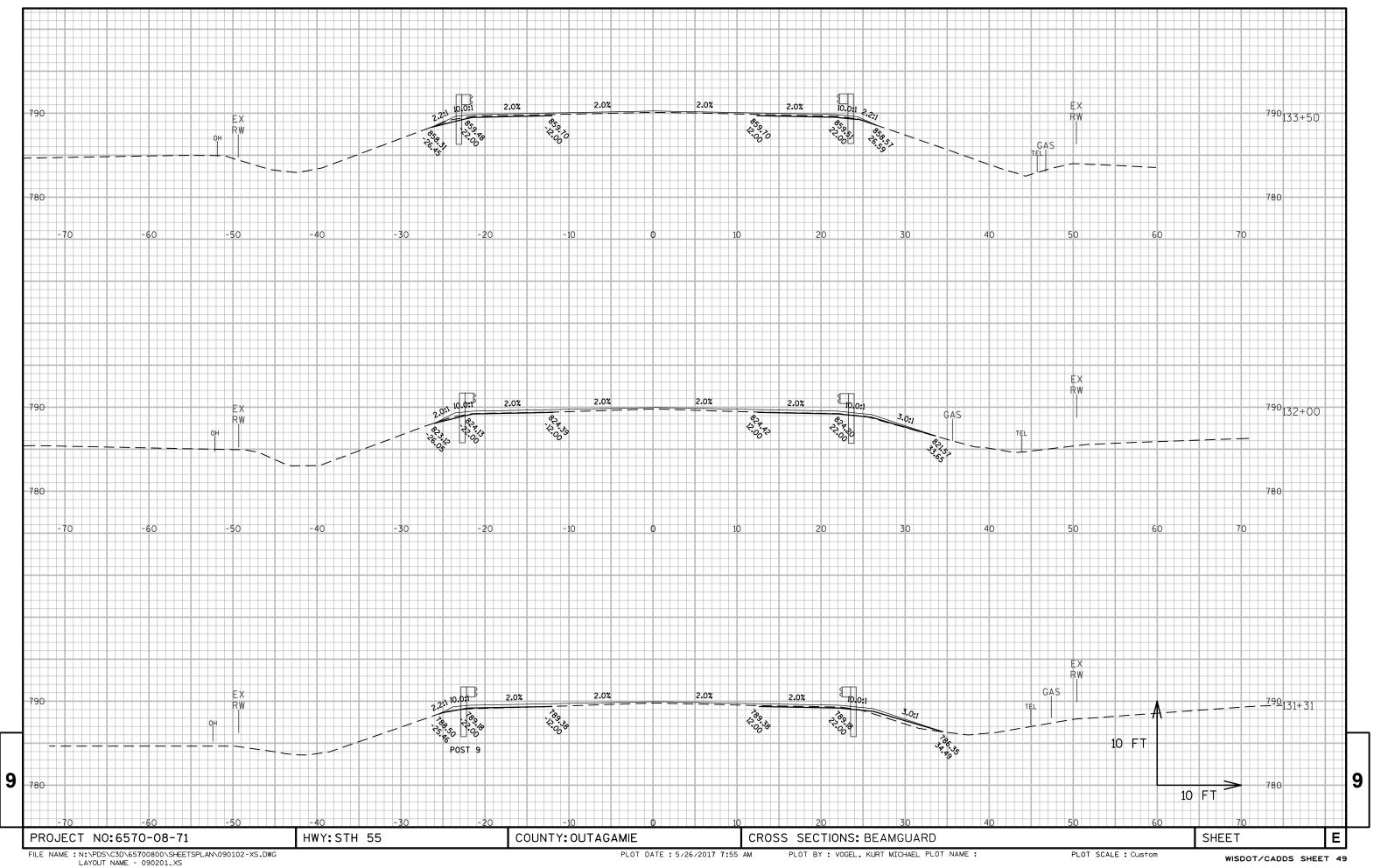
		AREA (SF)	Incremental Vol (CY) (Unadjusted	d)	Cumulative Vol (CY)		
							Expanded	
		Cut	Fill	Cut	Fill	Cut	Fill	Mass Ordinate
STATION	Distance					1.00	1.25	
				Note 1	Note 3	Note 1		Note 8
305+23.87	16969.38	0.00	0.00	0	0	0	96	-54
305+88.24	64.36	0.61	2.54	1	3	1	100	-57
306+00	11.76	0.46	1.74	0	1	1	101	-58
306+69.06	69.06	6.72	0.00	9	2	10	104	-52
307+80.99	111.94	0.00	0.00	14	0	24	104	-38
307+99.99	18.99	1.14	0.47	0	0	24	104	-38
308+32.2	32.22	1.13	2.21	1	2	26	106	-38
308+63.91	31.71	0.52	11.34	1	8	27	116	-47
309+00	36.09	1.15	2.23	1	9	28	127	-57
309+32.2	32.20	0.95	0.71	1	2	29	130	-58
309+64.68	32.48	1.03	0.00	1	0	30	130	-58

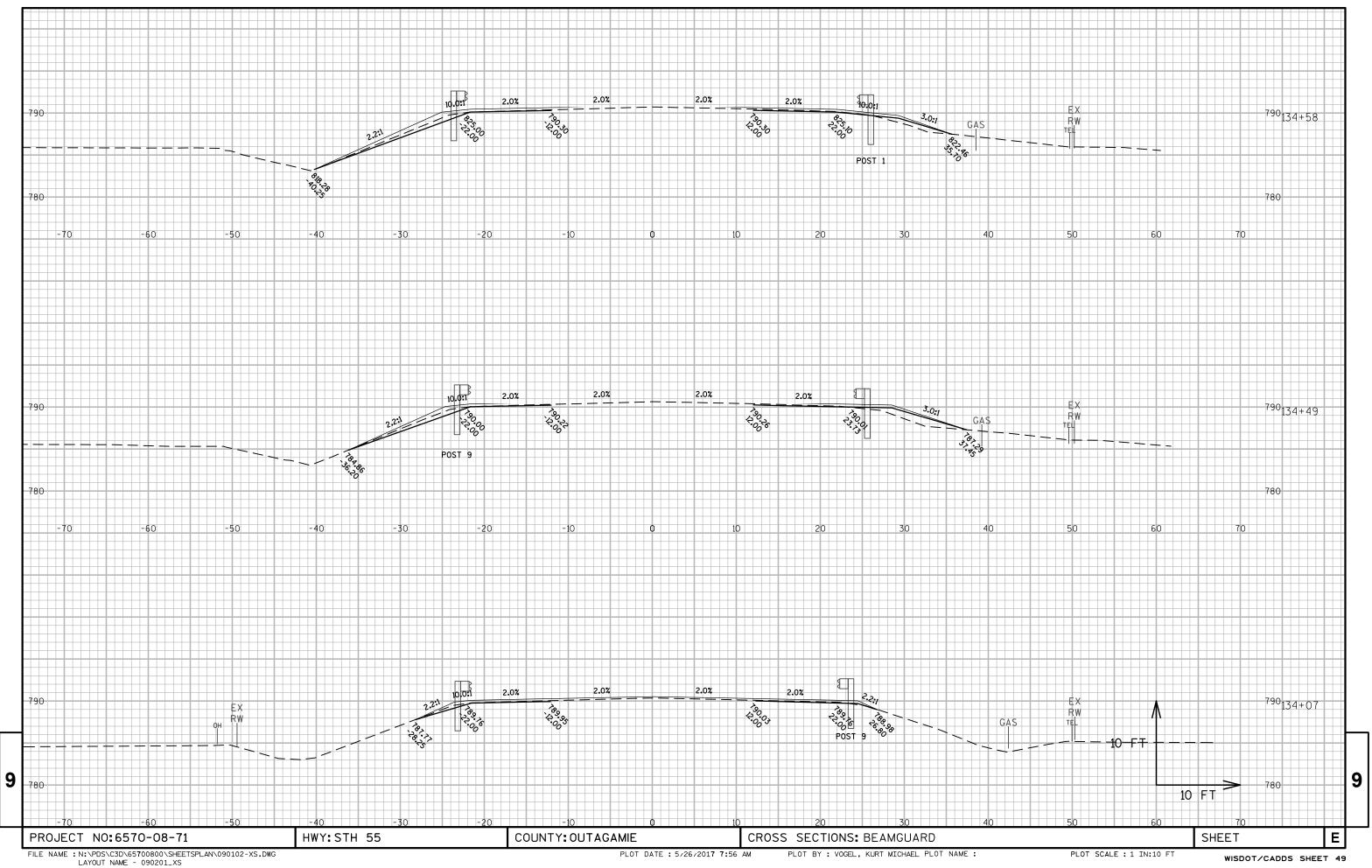
		AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
							Expanded	
		Cut	Fill	Cut	Fill	Cut	Fill	Mass Ordinate
STATION	Distance					1.00	1.25	
				Note 1	Note 3	Note 1		Note 8
334+96.51(2)	2531.83	0.00	0.00	48	0	48	130	-9
336+00(2)	103.49	0.44	1.66	1	3	49	134	-12
336+40.13(2)	40.13	1.84	0.33	2	1	51	136	-12
336+79.57(2)	39.45	2.76	0.08	3	0	54	136	-10
337+06.72(2)	27.15	5.90	0.00	4	0	59	136	-5
337+68.96(2)	62.24	0.00	0.00	7	0	65	136	2
337+94.68(2)	25.72	2.00	0.00	1	0	66	136	3
338+44.63(2)	49.95	2.68	0.00	4	0	71	136	7
339+07.15(2)	62.52	4.53	0.16	8	0	79	137	15
339+57.24(2)	50.09	6.55	0.07	10	0	89	137	25
340+00(2)	42.76	7.77	0.00	11	0	101	137	36
340+25.34(2)	25.35	5.34	0.00	6	0	107	137	42
340+57.21(2)	31.86	0.52	0.00	3	0	110	137	46

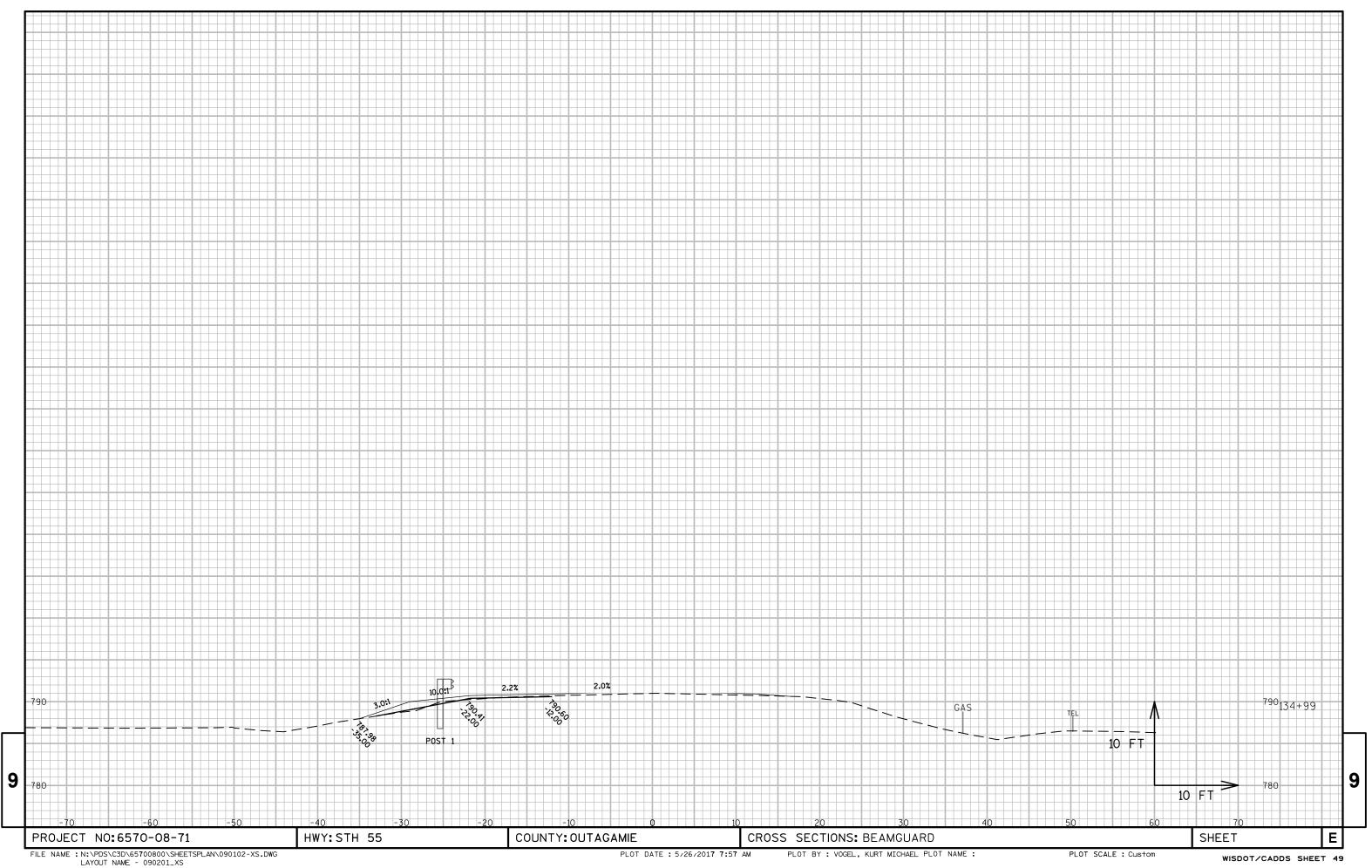
PROJECT NO: 6570-08-71 HWY: STH 55 COUNTY: OUTAGAMIE EARTHWORK SHEET: ⁵⁹ **E**

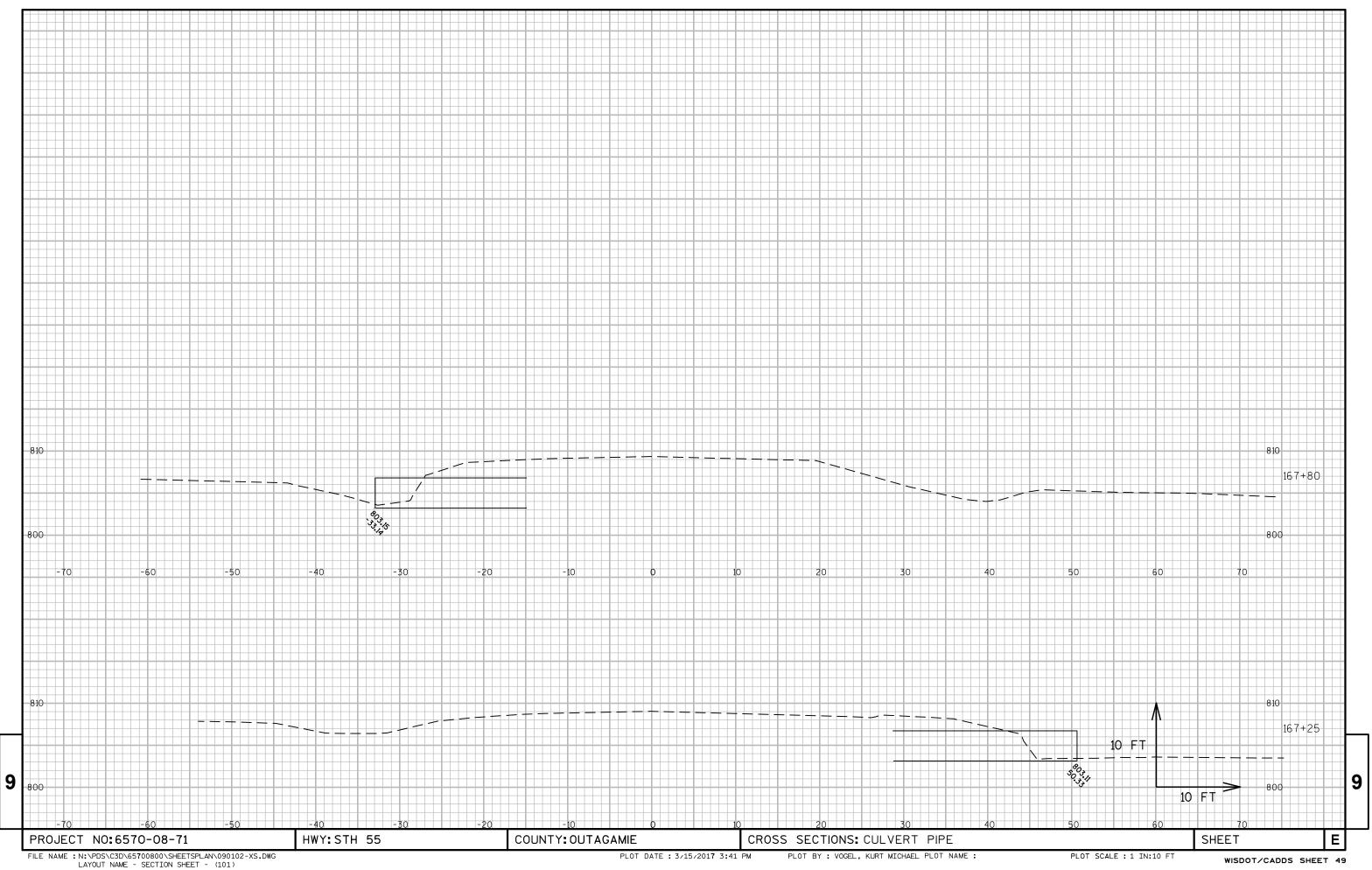


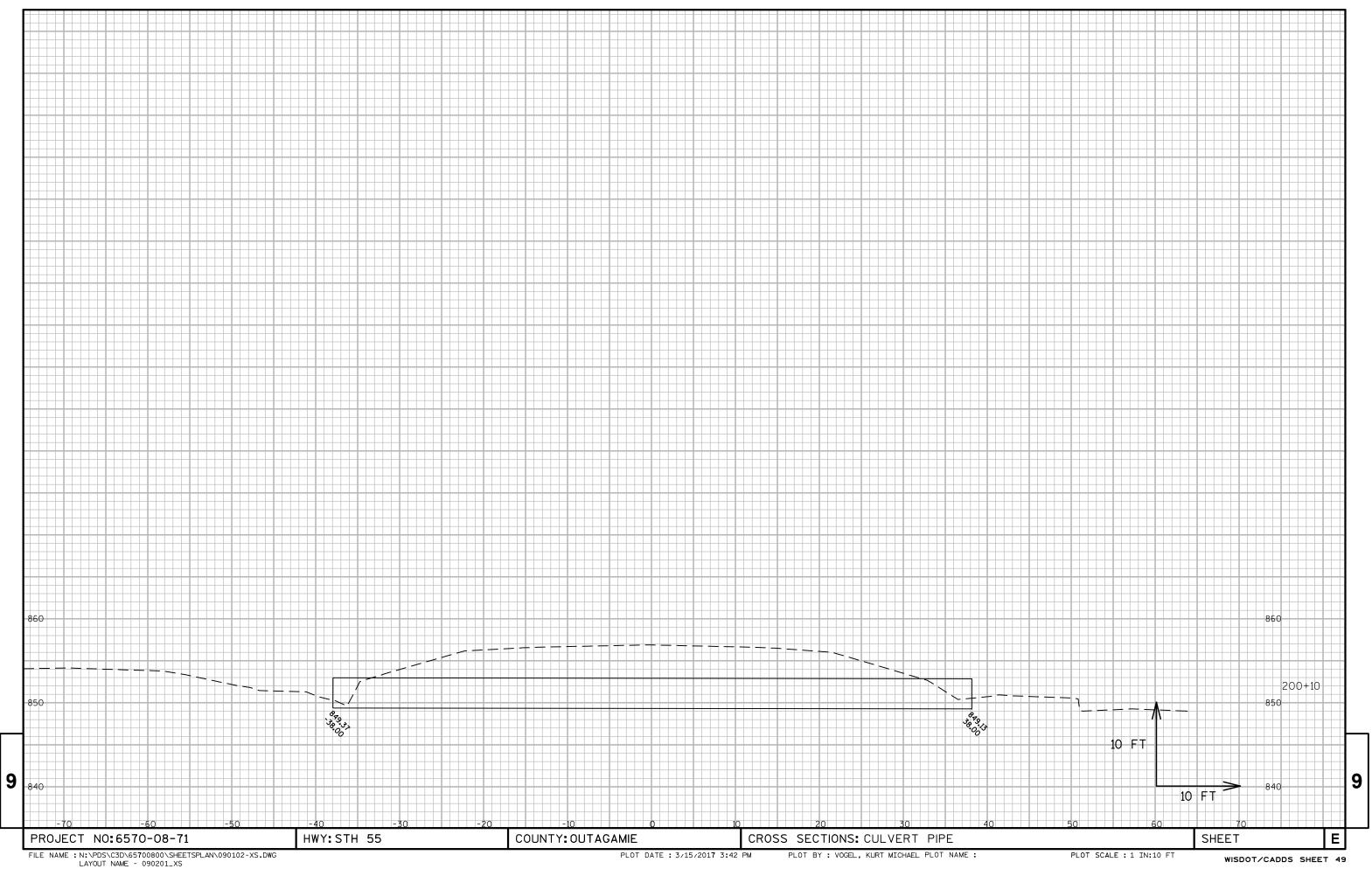


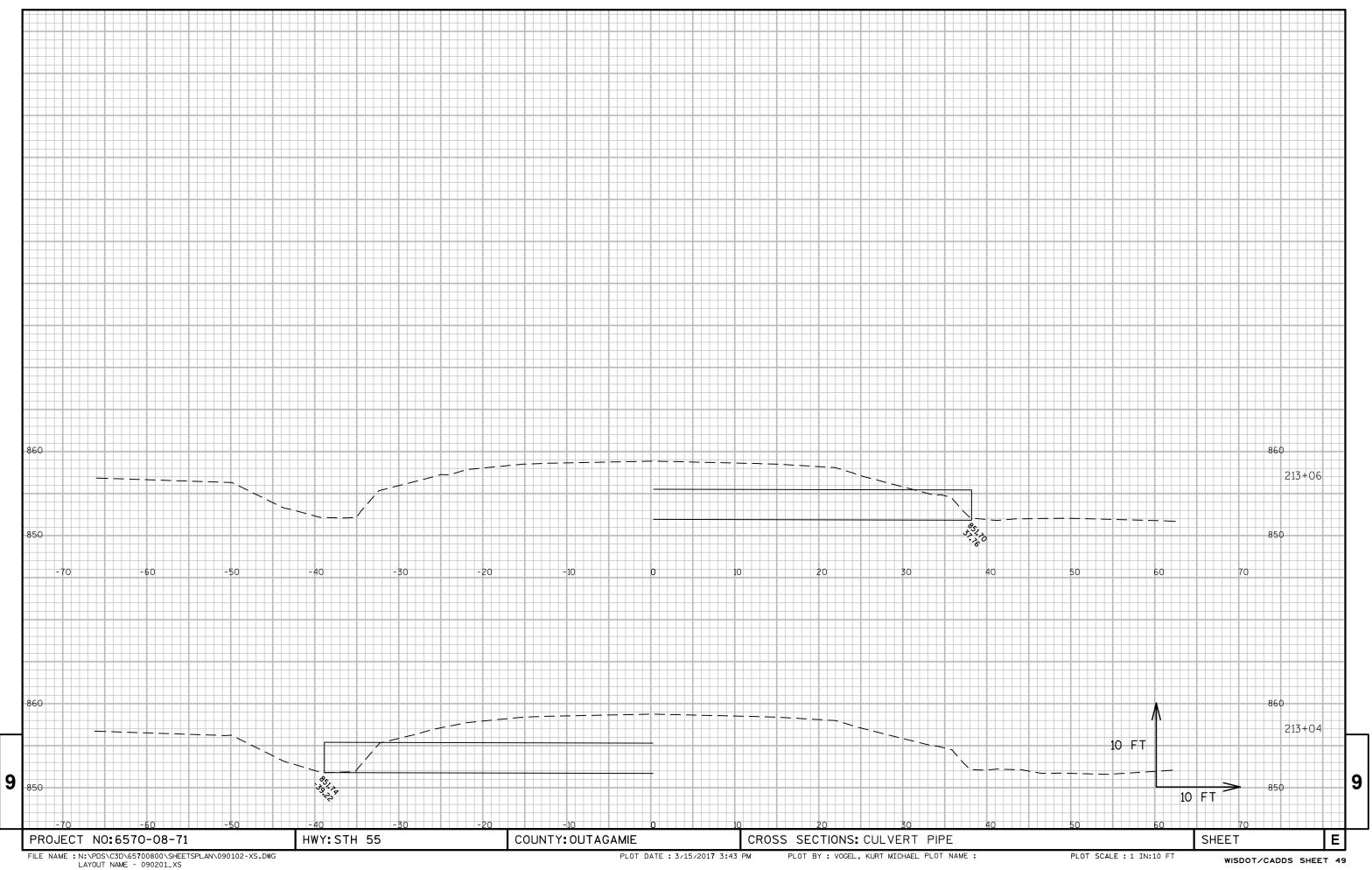


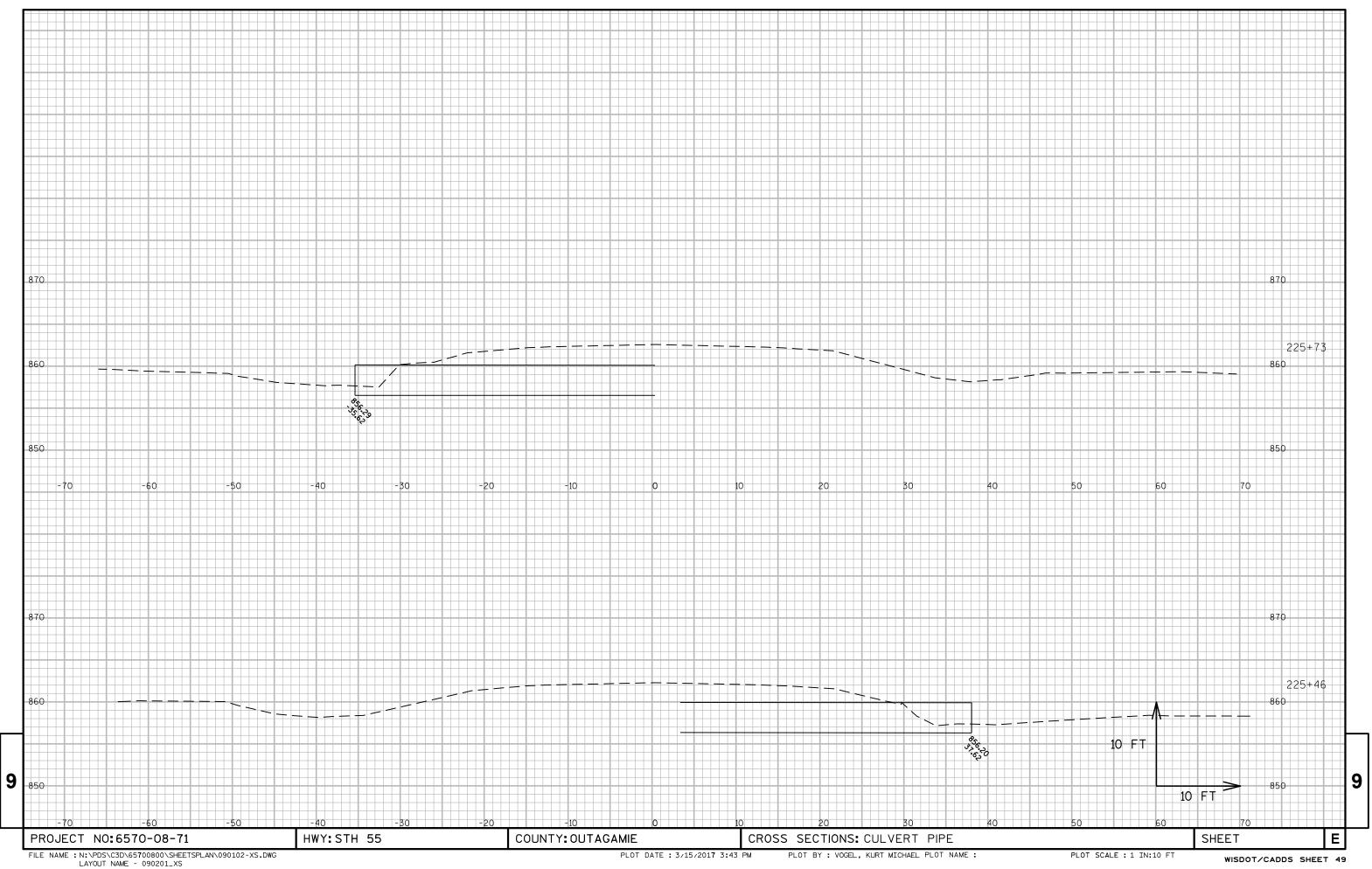


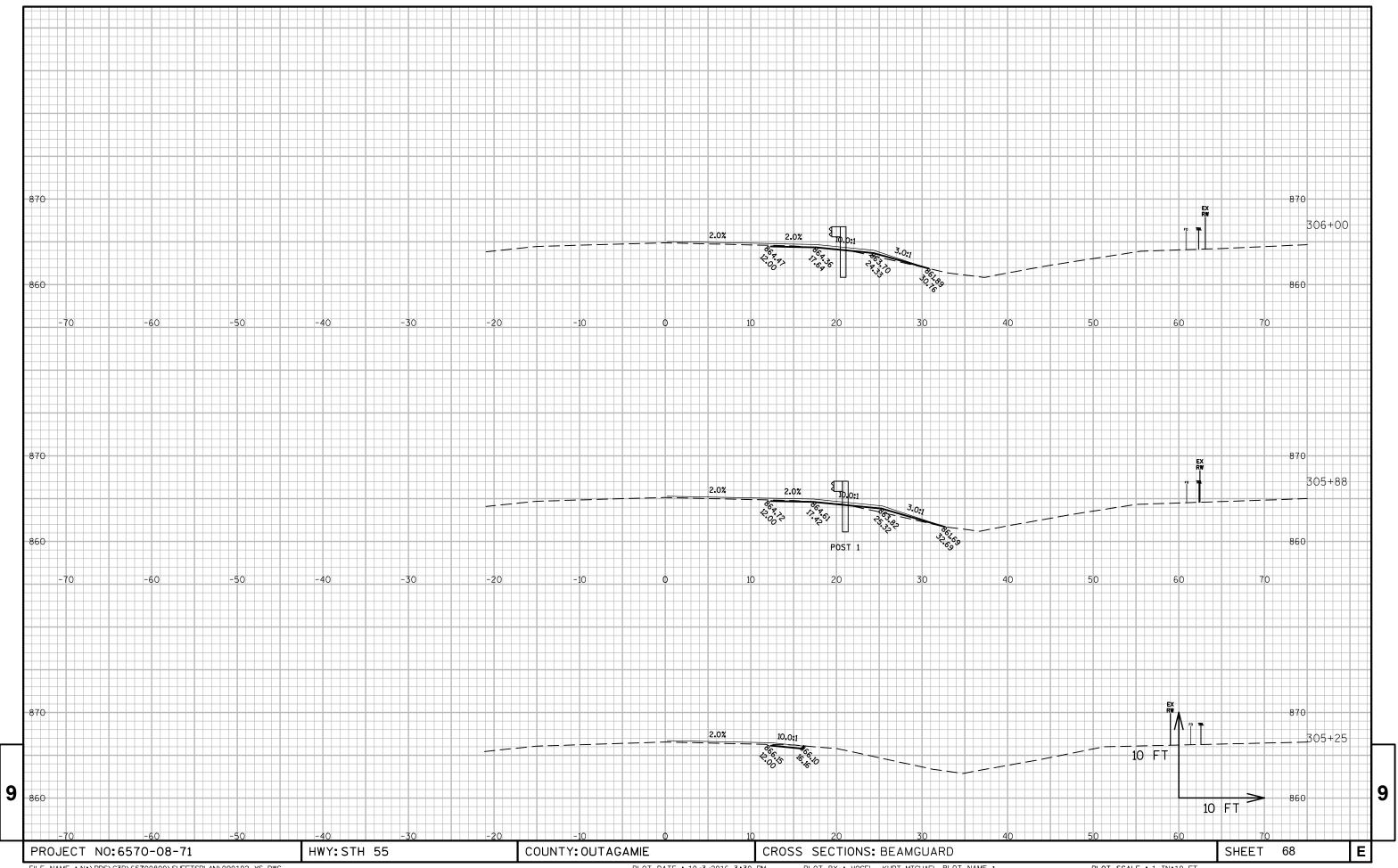


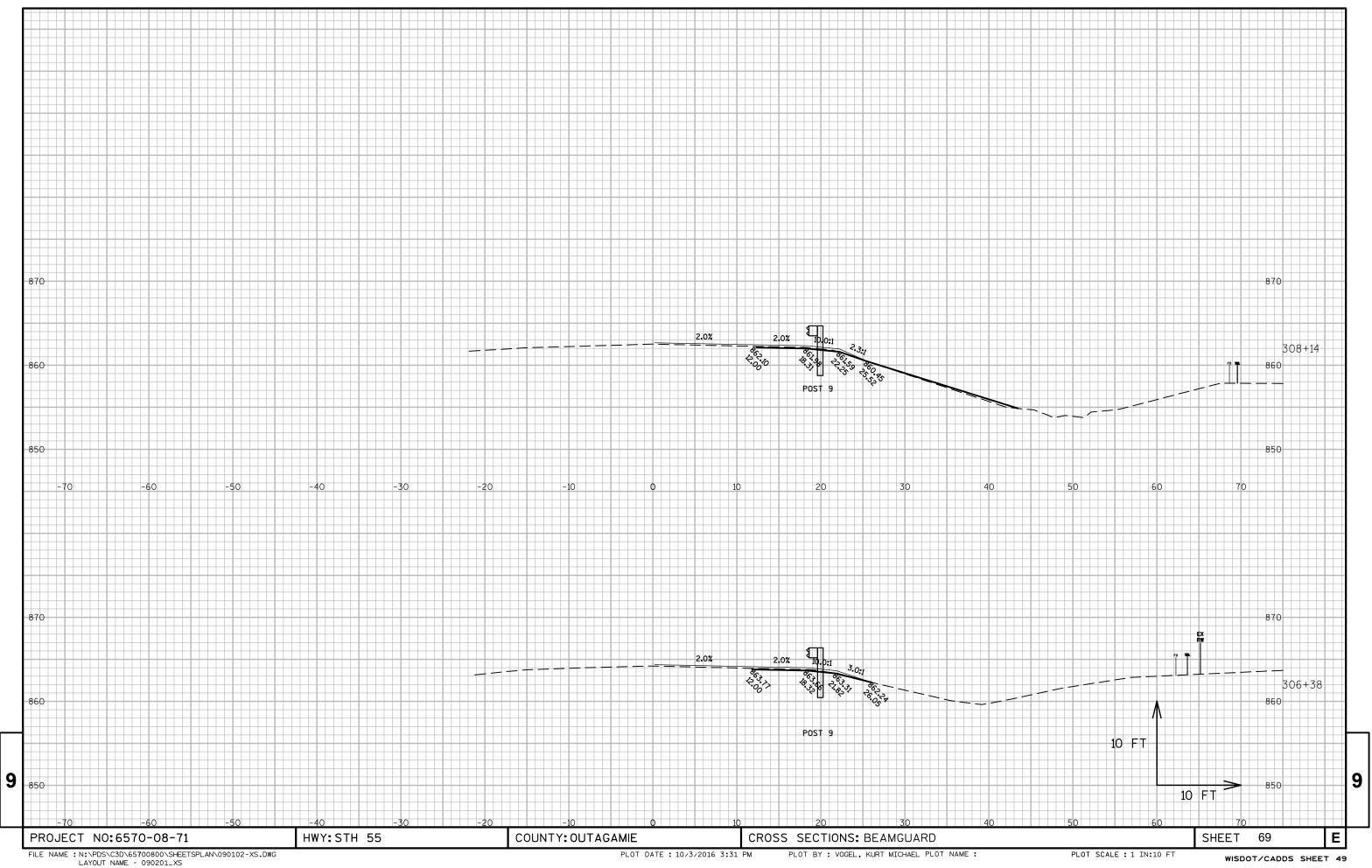


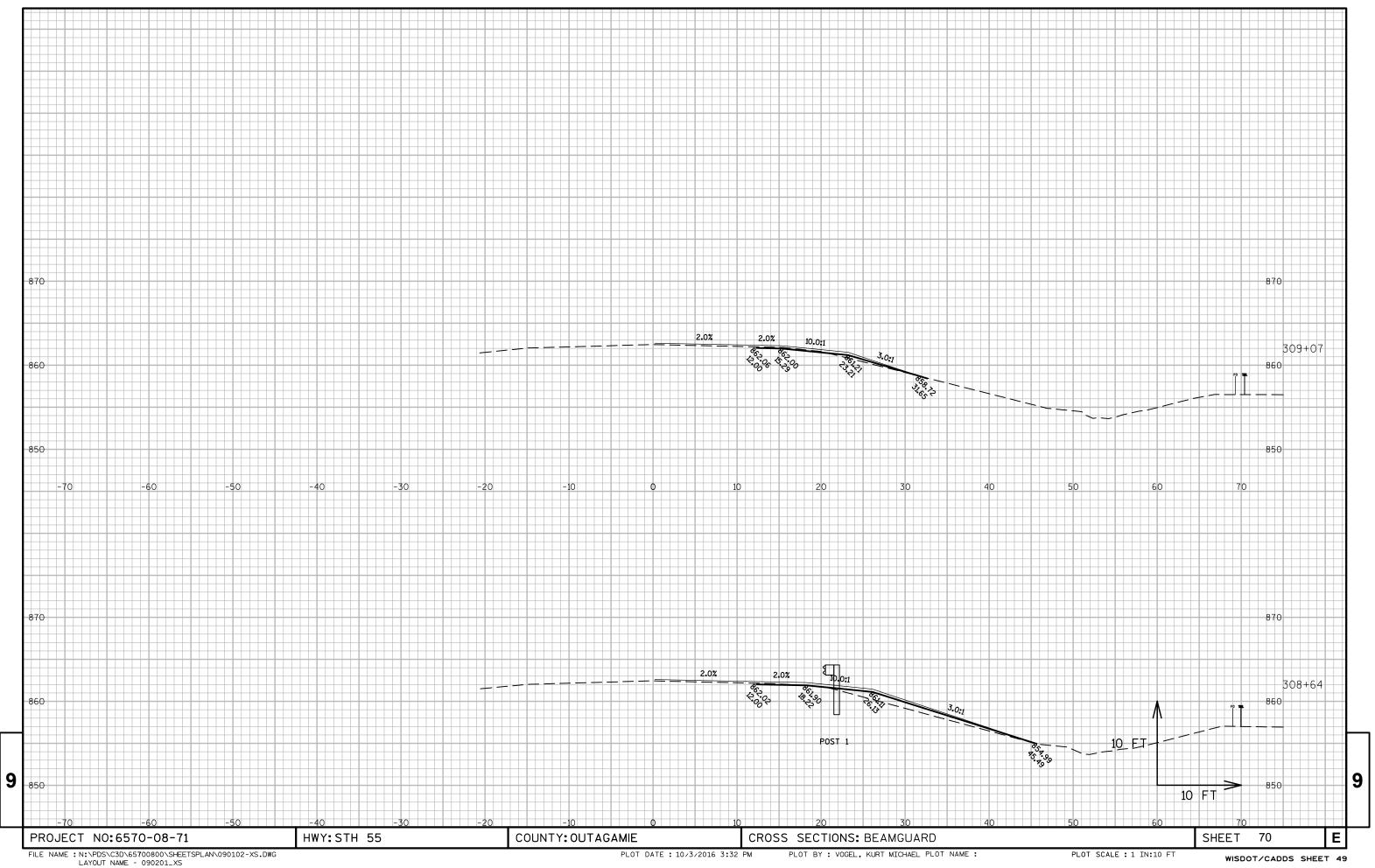


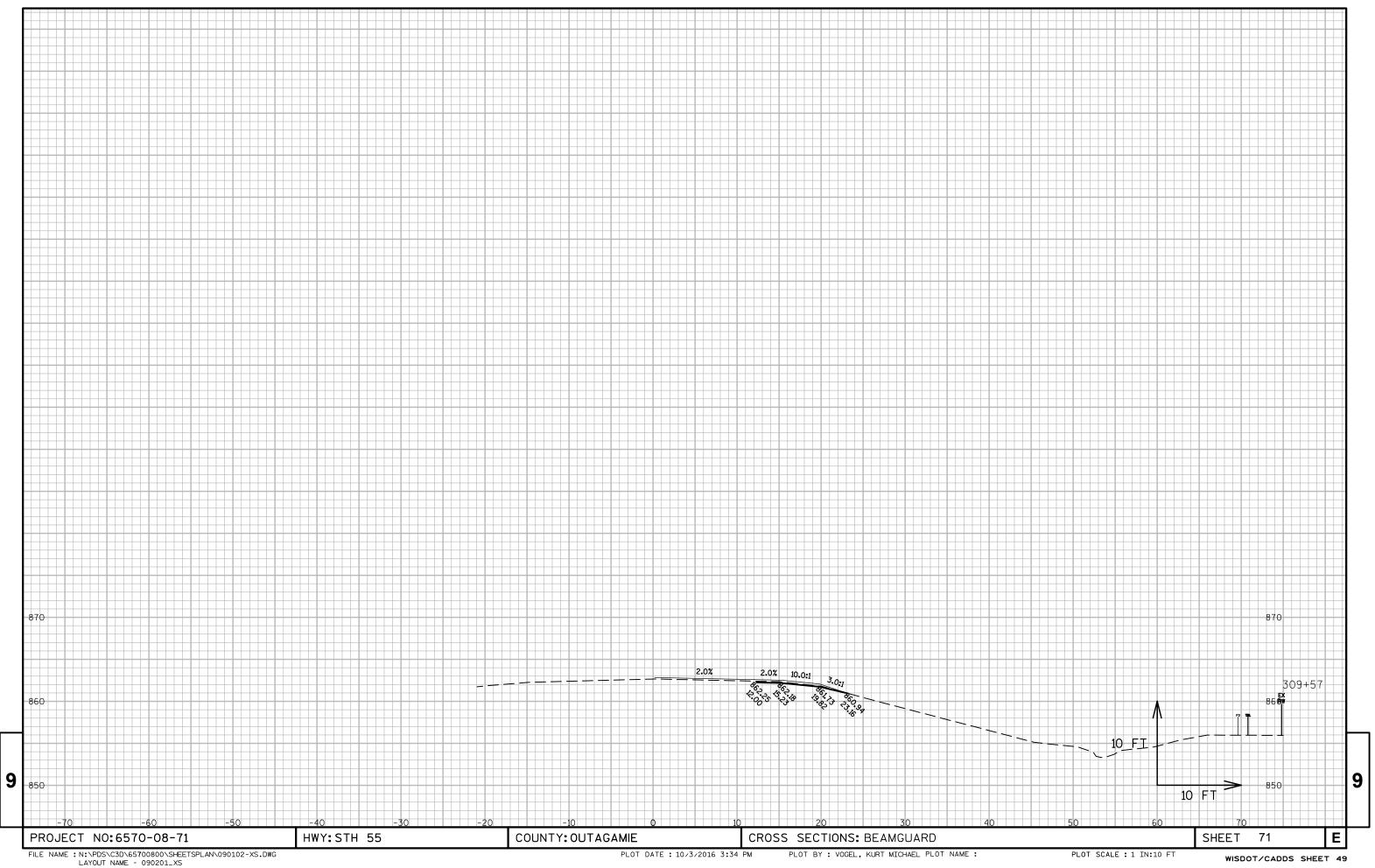


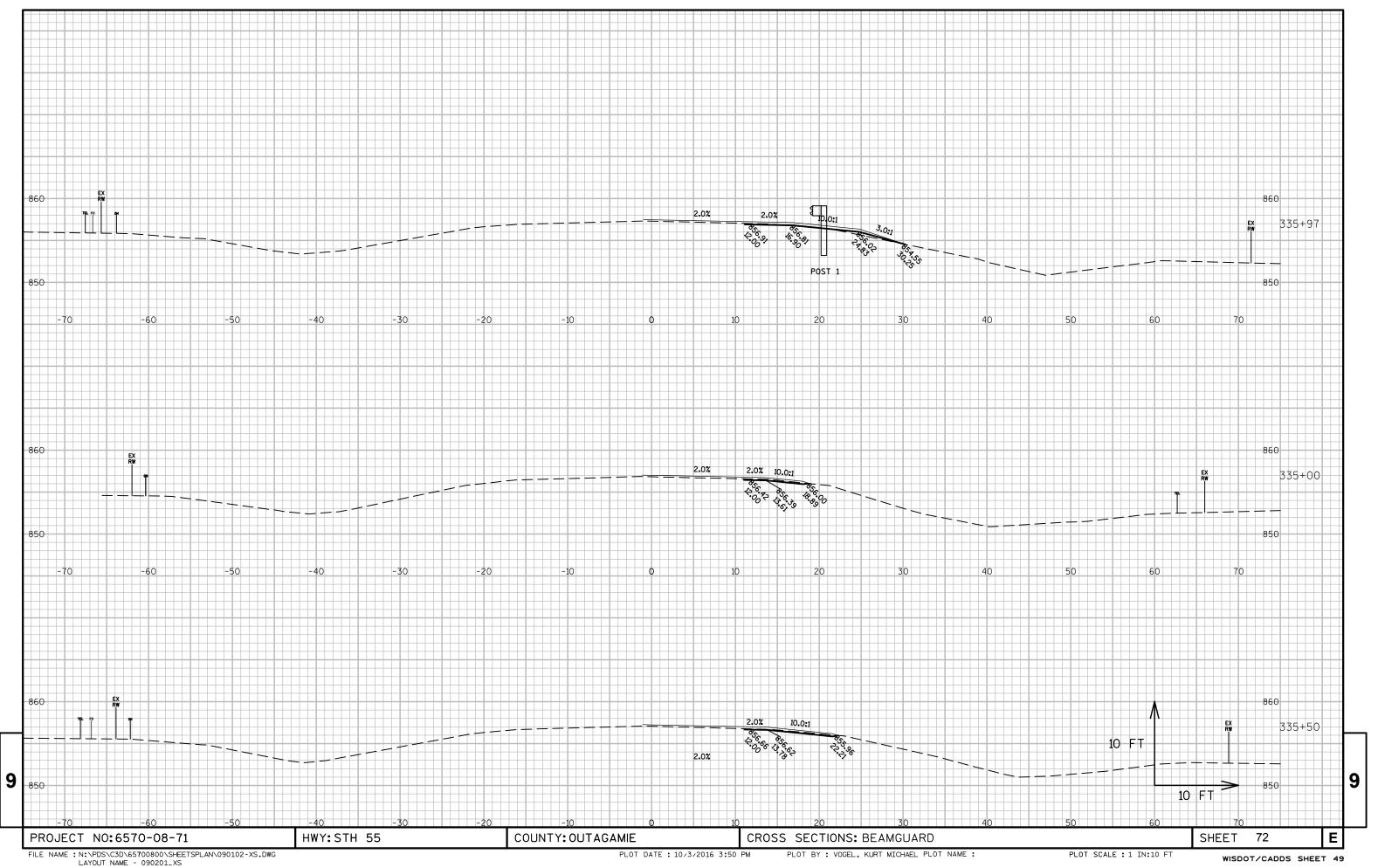


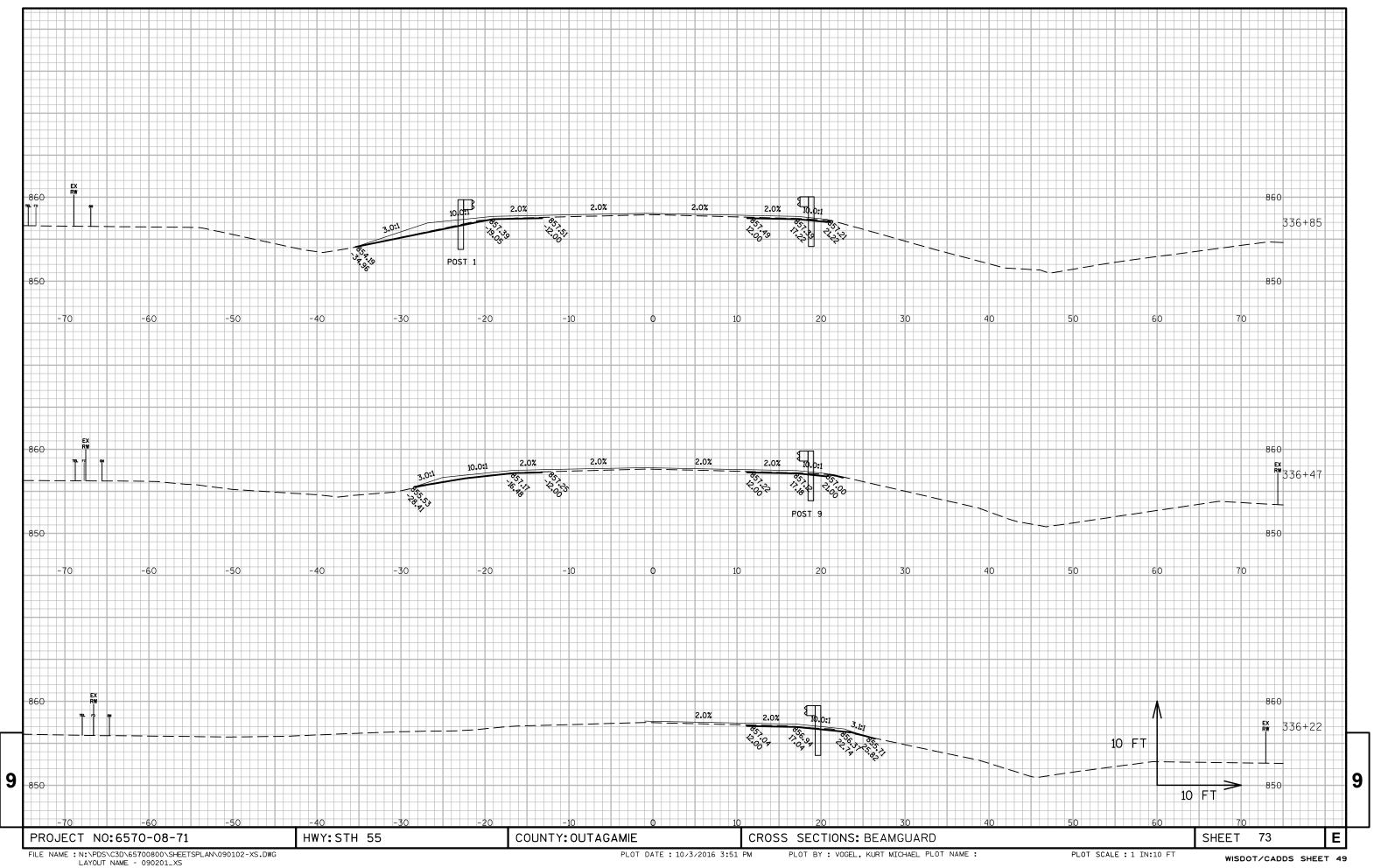


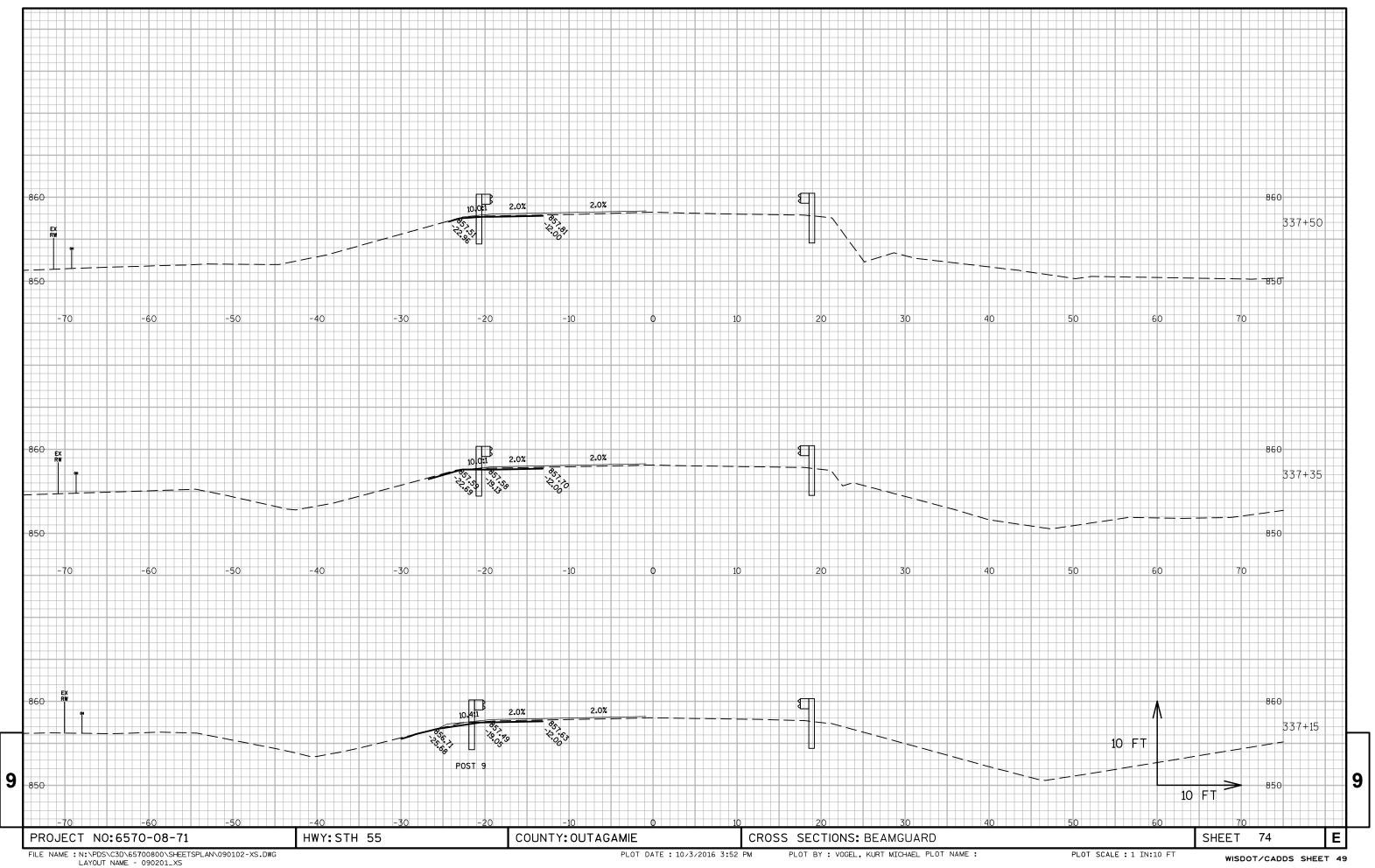


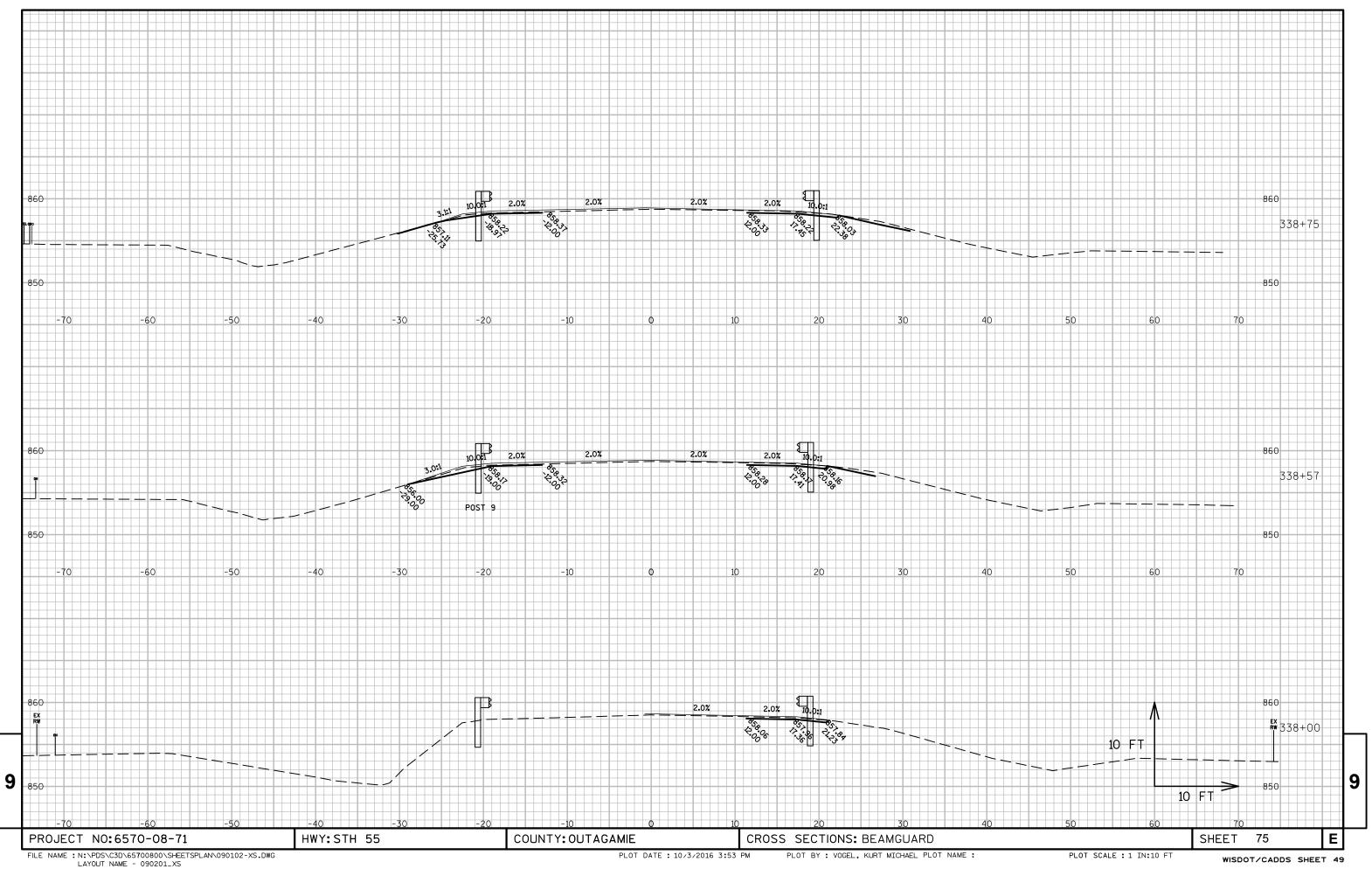


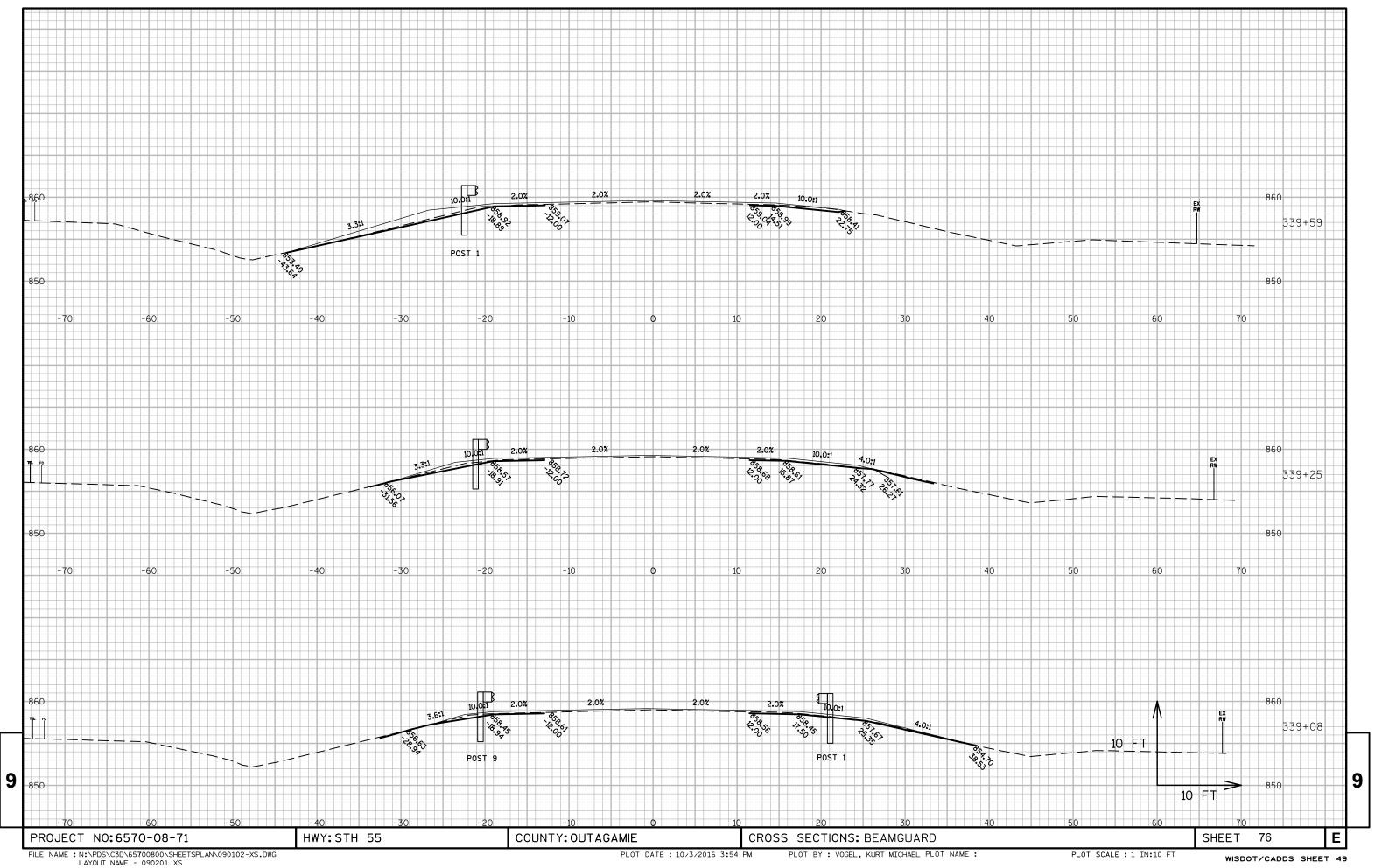


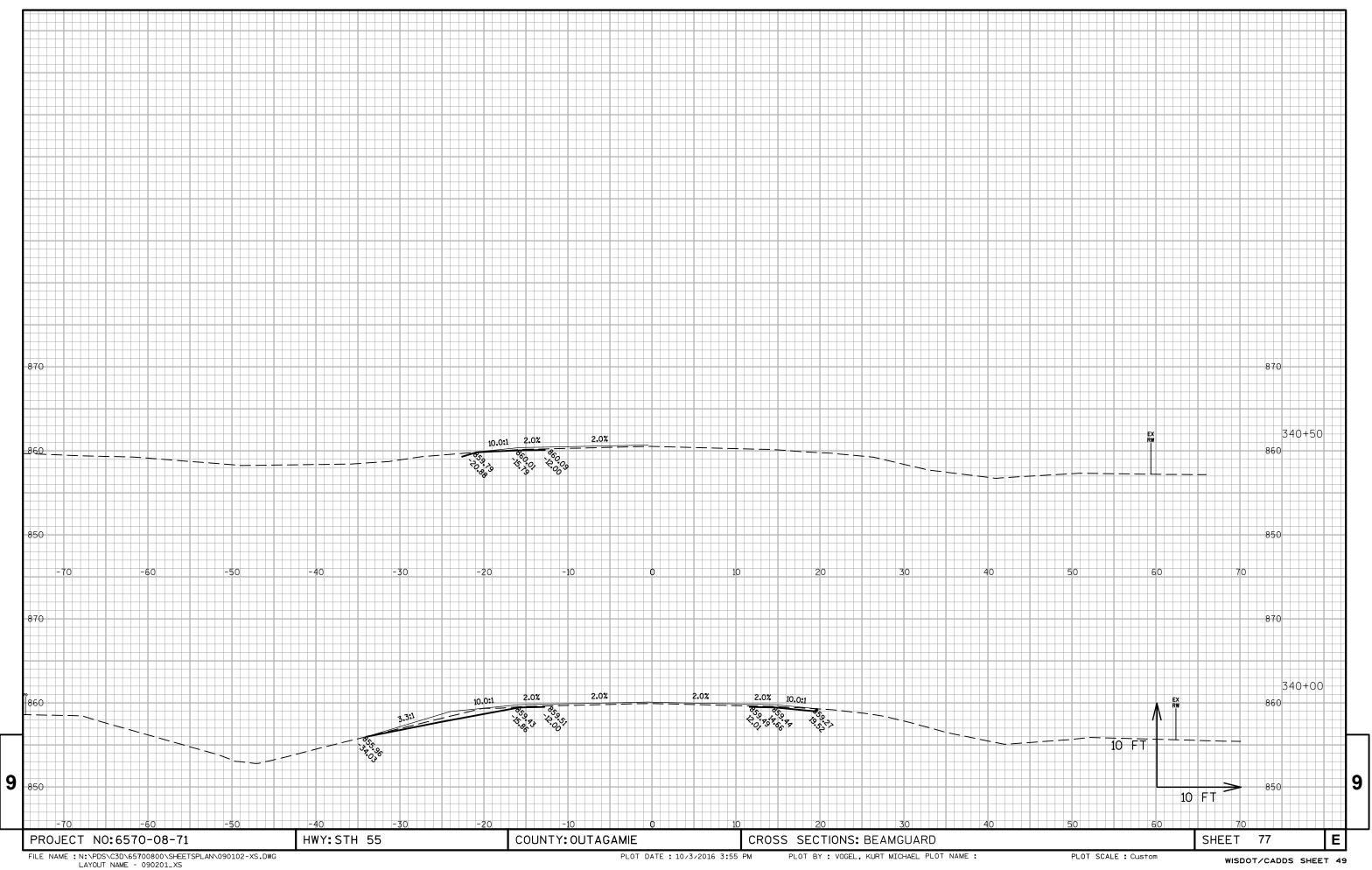












Notes



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