MAY 2024

Section No

Section No

Section No. Section No.

Section No

Section No.

Section No.

TOTAL SHEETS = 168

ORDER OF SHEETS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

WCL - APPLETON

CLEARY COURT - TOWER VIEW DRIVE

STH 96 OUTAGAMIE COUNTY

STATE PROJECT NUMBER 4075-41-71

Hortonville

Black Otte

R-16-E ---

36

Greenville

31

GRAND

CHUTE

Typical Sections and Details

Estimate of Quantities

Plan and Profile

Sign Plates

Structure Plans

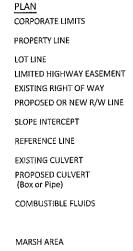
Cross Sections

Miscellaneous Quantities

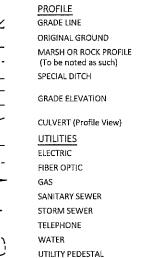
DESIGN DESIGNATION

A.A.D.T.	2025	=	13,070
A.A.D.T.	2045	==	14,840
D.H.V.		=	5.3
D.D.		=	59/41
₹.		=	6.2
DESIGN SPEE	D	=	45 MPH
ECALC			1,000,000

CONVENTIONAL SYMBOLS

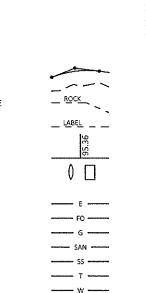


WOODED OR SHRUB AREA



POWER POLE

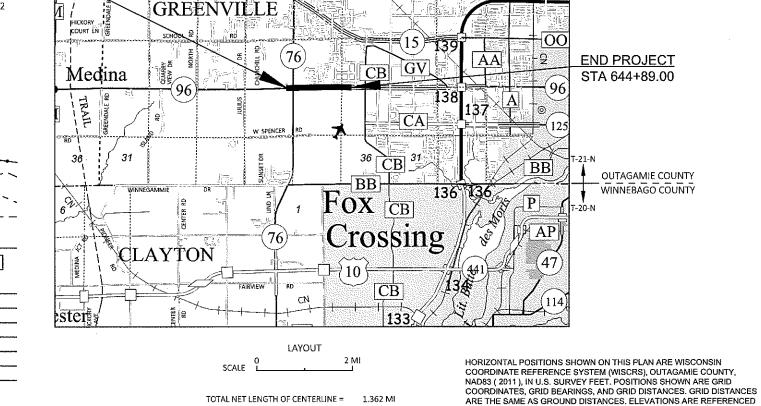
TELEPHONE POLE



Ь

BEGIN PROJECT STA 573+00.00

Y = 566,284.557 X = 792,537.972



FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 4075-41-71



STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

EPARED BY	
Surveyor	WISDOT NE REGION
Designer	RASMITH
Project Manager	JESSE HANSEN
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	TAMMY RABE

TOTAL NET LENGTH OF CENTERLINE = 1.362 MI

TO NAVD 88 (2012), GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

APPLETON, WI 54911 (920) 221-5969 KW715W@ATT.COM

GREENVILLE SANITARY DISTRICT NO. 1 - SEWER

CODY SIMONIS W6860 PARKVIEW DR GREENVILLE, WI 54942 (920) 750-8130

CSIMONIS@TOWNOFGREENVILLE.COM

GREENVILLE SANITARY DISTRICT NO. 1 - WATER

CODY SIMONIS W6860 PARKVIEW DR GREENVILLE, WI 54942 (920) 757-7276 (920) 750-8130 (MOBILE)

CSIMONIS@TOWNOFGREENVILLE.COM

LEVEL 3 COMMUNICATIONS LLC - COMMUNICATION LINE

MASOOD ZEERAK 1025 ELDORADO BLVD BROOMFIELD, CO 80021 NATIONALRELO@CENTURYLINK.COM

NET LEC LLC - COMMUNICATION LINE RICK VINCENT 450 SECURITY BLVD P.O. BOX 19079

GREEN BAY, WI 54307-9079 (920) 617-7316

RICK.VINCENT@NSIGHT.COM

TOTAL PROJECT AREA = 20.96 ACRES

4075-41-71

PROJECT NO:

FILE NAME :

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 9.60 ACRES

UTILITIES CONTACTS

SPECTRUM - COMMUNICATION LINE VINCE ALBIN 3520 E DESTINATION DR APPLETON, WI 54915 (920) 831-9249 VINCE.ALBIN@CHARTER.COM

TDS METROCOM LLC - COMMUNICATION LINE

202 OGDEN ST MEDFORD, WI 54451 (715) 748-6970

WIN TECHNOLOGY - COMMUNICATION LINE

JEFF.SHAW@TDSTELECOM.COM

ERIC BECKER 4955 BULLIS FARM RD EAU CLAIRE, WI 54701 (715) 797-2724

ERIC.BECKER@WINTECHNOLOGY.COM

WE ENERGIES - ELECTRICITY 7ACH DUGA 800 S LYNNDALE DR APPLETON, WI 54912 (920) 380-3458 (920) 450-9314 (MOBILE) ZACHARY.DUGA@WE-ENERGIES.COM

WE ENERGIES - GAS/PETROLEUM CODY BECKMAN 800 S LYNNDALE DR APPLETON, WI 54912 (920) 380-3422

(920) 428-1038 (MOBILE) CODY.BECKMAN@WE-ENERGIES.COM

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
		А			В		С		D			
	SLOP	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:										-1		
ASPHALT						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS						.7585						
ROOFS		.7595										
GRAVEL ROADS, SH	OULDERS					.4060		-	-			

HWY: STH 96

DNR LIASION

MATT SCHAEVE DNR NORTHEAST REGIONAL HEADQUARTERS 2984 SHAWANO AVE GREEN BAY, WI 54313 (920) 366-1544 matthew.schaeve@wisconsin.gov

OUTAGAMIE COUNTY HIGHWAY COMMISSIONER

DEAN STEINGRABER, P.E. OUTAGAMIE COUNTY HIGHWAY DEPT 1313 HOLLAND ROAD APPLETON, WI 54911-8947 (920) 832-5673 dean.steingraber@outagamie.org

VILLAGE OF GREENVILLE DIRECTOR OF PUBLIC WORKS

KEITH CURRAN, P.E. VILLAGE OF GREENVILLE W6895-A PARKVIEW DR GREENVILLE, WI 54942 (920) 757-7276 kcurran@greenvillewi.gov

APPLETON INTERNATIONAL AIRPORT

SCOTT VOLBERDING W6390 CHALLENGER DR STE 201 APPLETON, WI 54914 (920) 832-5267 SVOLBERDING@ATWAIRPORT.COM

NE REGION PROJECT MANAGER

JESSE HANSEN, PE 944 VANDERPERREN WAY GREEN BAY, WI 54304 (920) 492-5630 Jesse.Hansen@dot.wi.gov

DESIGN CONSULTANT

raSmith BRAD SEVERSON, PE 100 WEST LAWRENCE STREET, SUITE 412 APPLETON, WI 54911 (920) 843-5738 BRAD.SEVERSON@RASMITH.COM

GENERAL NOTES

- 1. THE LOCATIONS OF EXISTING UTILITY FACILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN
- NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
- 3. EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.
- TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. NO WORK SHALL BEGIN UNTIL PROPER TRAFFIC CONTROL DEVICES ARE PLACED AND APPROVED BY THE ENGINEER.
- DO NOT DRIVE OR STORE EQUIPMENT, OR STORE CONSTRUCTION MATERIALS IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS OR WATERWAYS.

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES

PROJECT OVERVIEW

TYPICAL SECTIONS

CONSTRUCTION DETAILS

EROSION CONTROL PLAN

STORM SEWER PLAN TRAFFIC SIGNAL PLAN

PAVEMENT MARKING PLAN

TRAFFIC CONTROL PLAN DETOUR PLAN

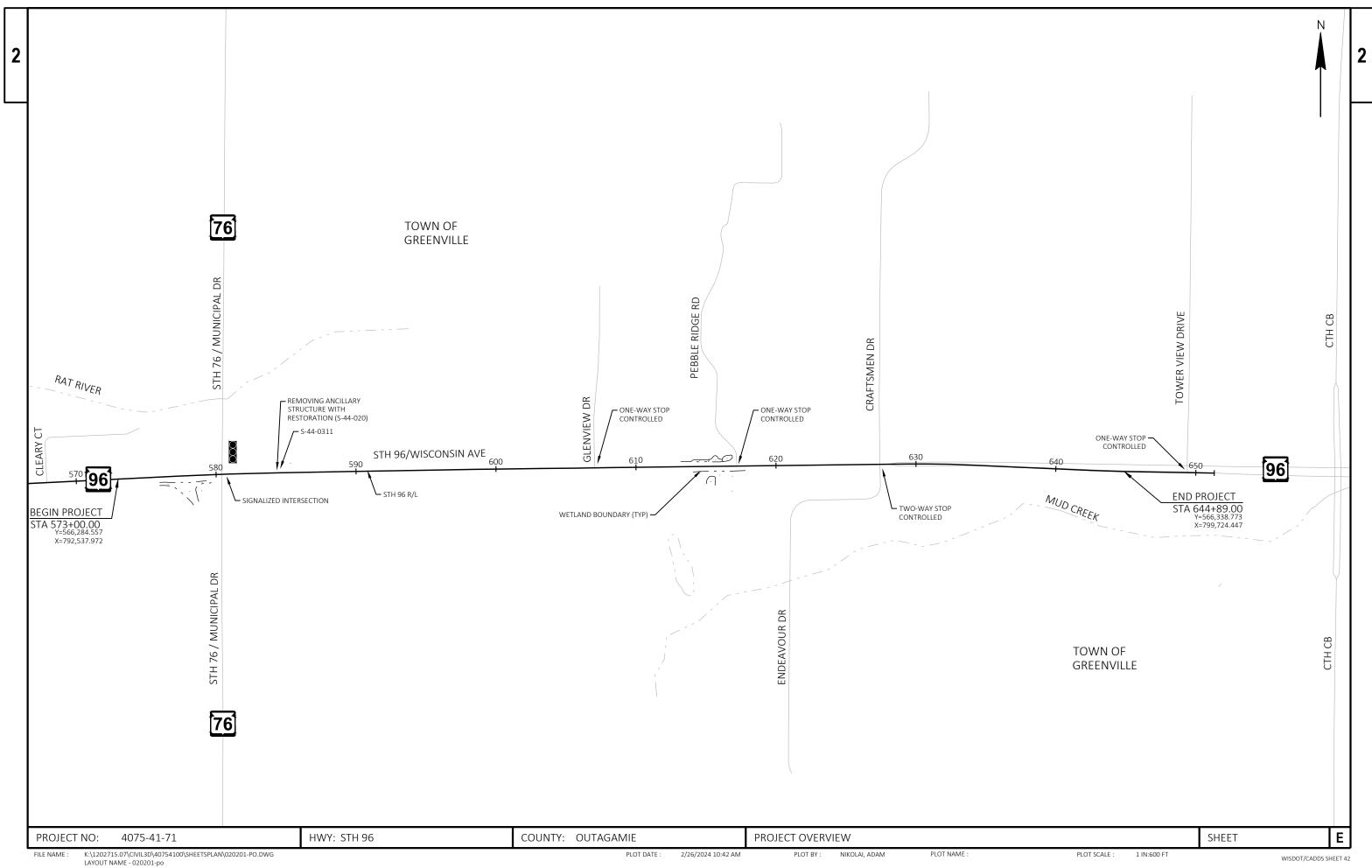
Dial (800)242-8511 www.DiggersHotline.com

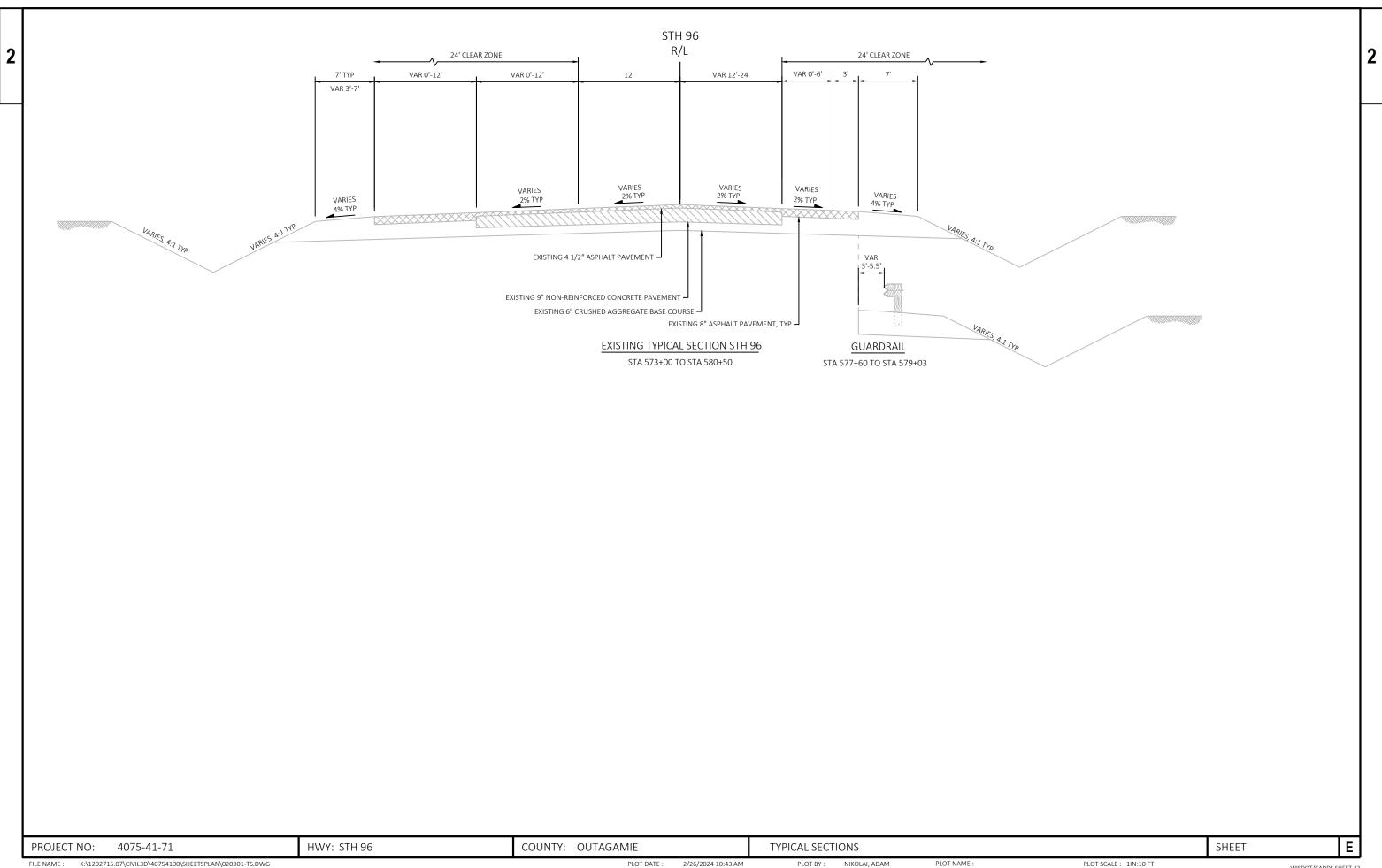
SHEET

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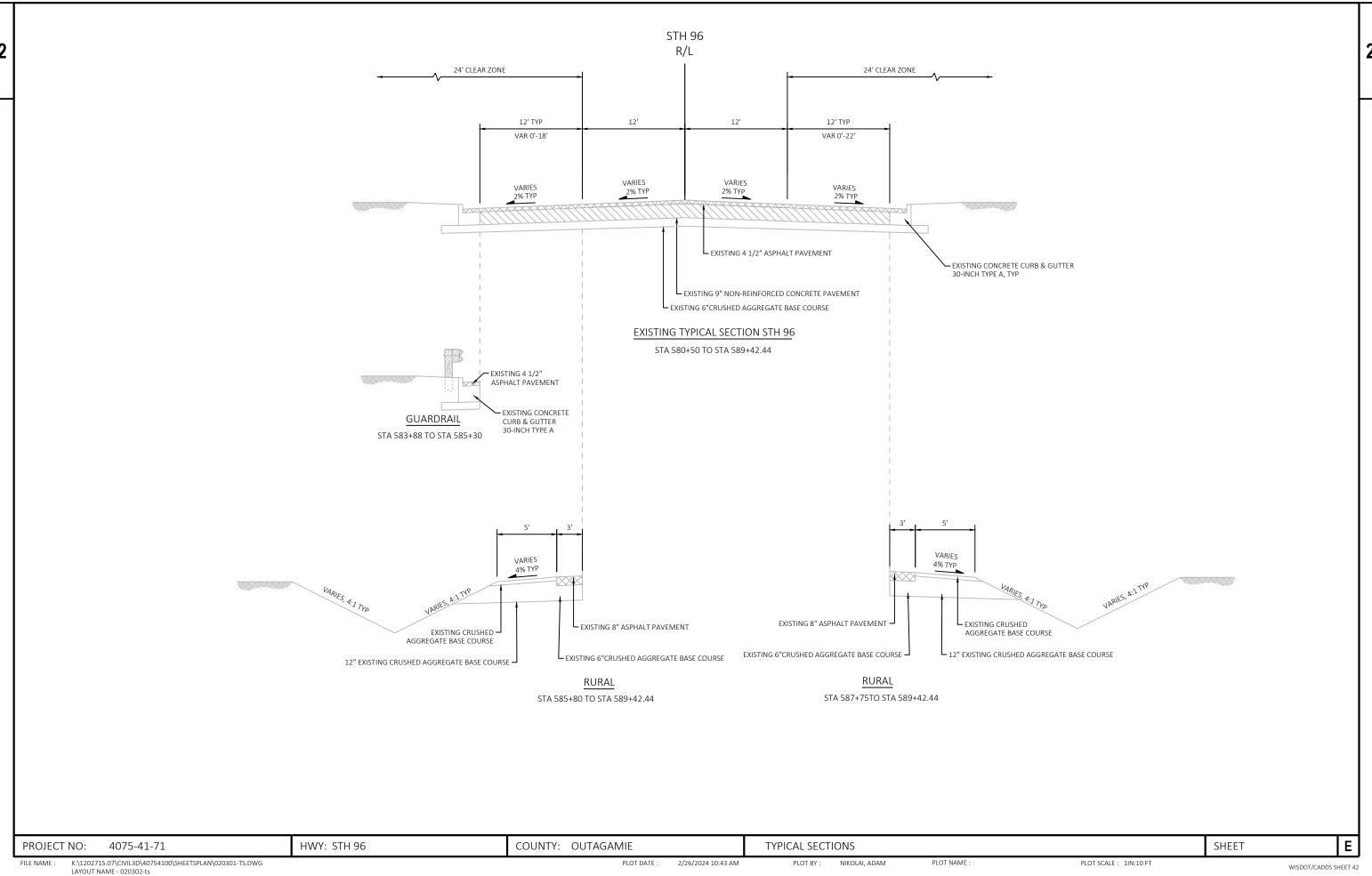
COUNTY: OUTAGAMIE **GENERAL NOTES**

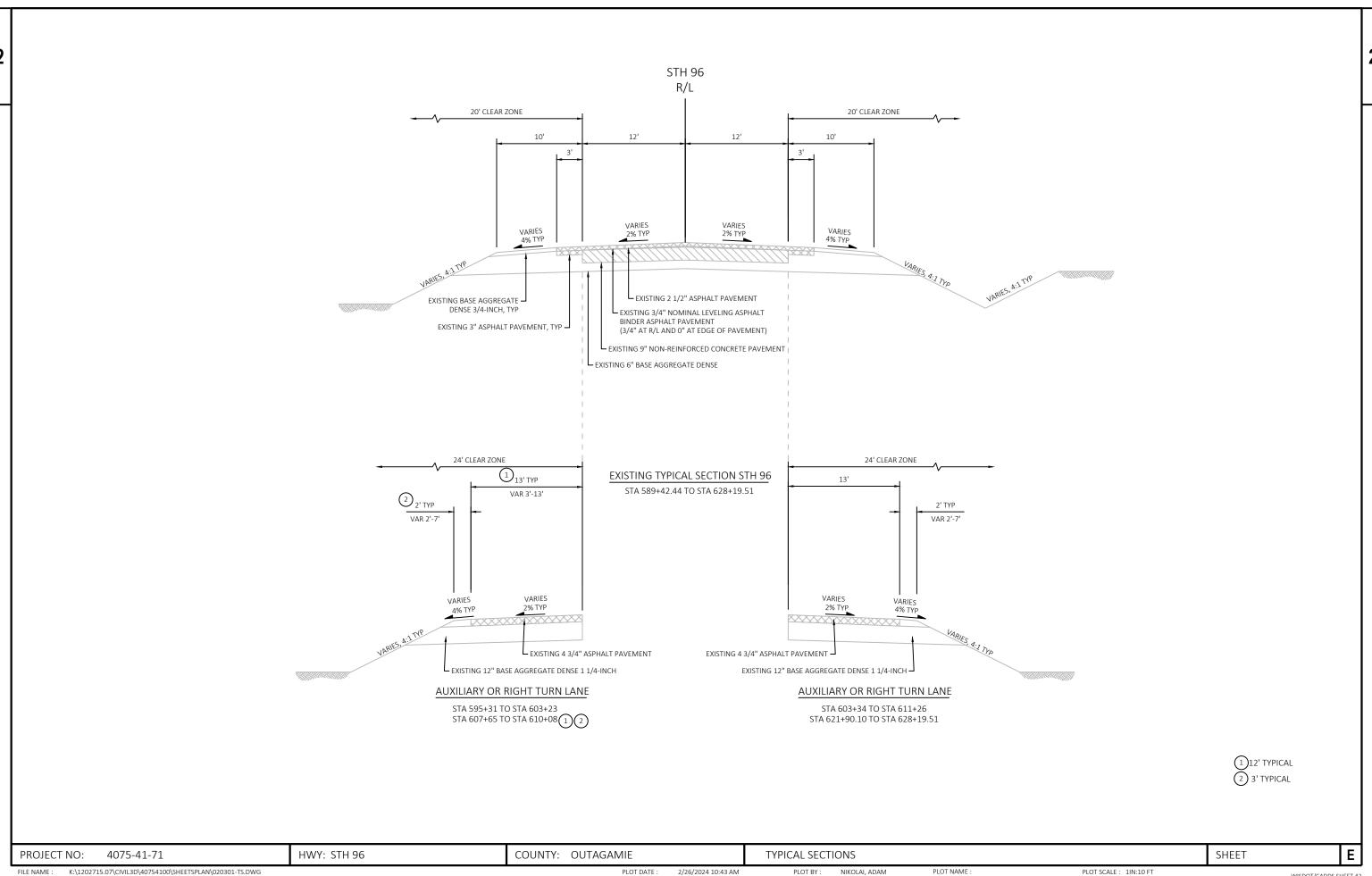
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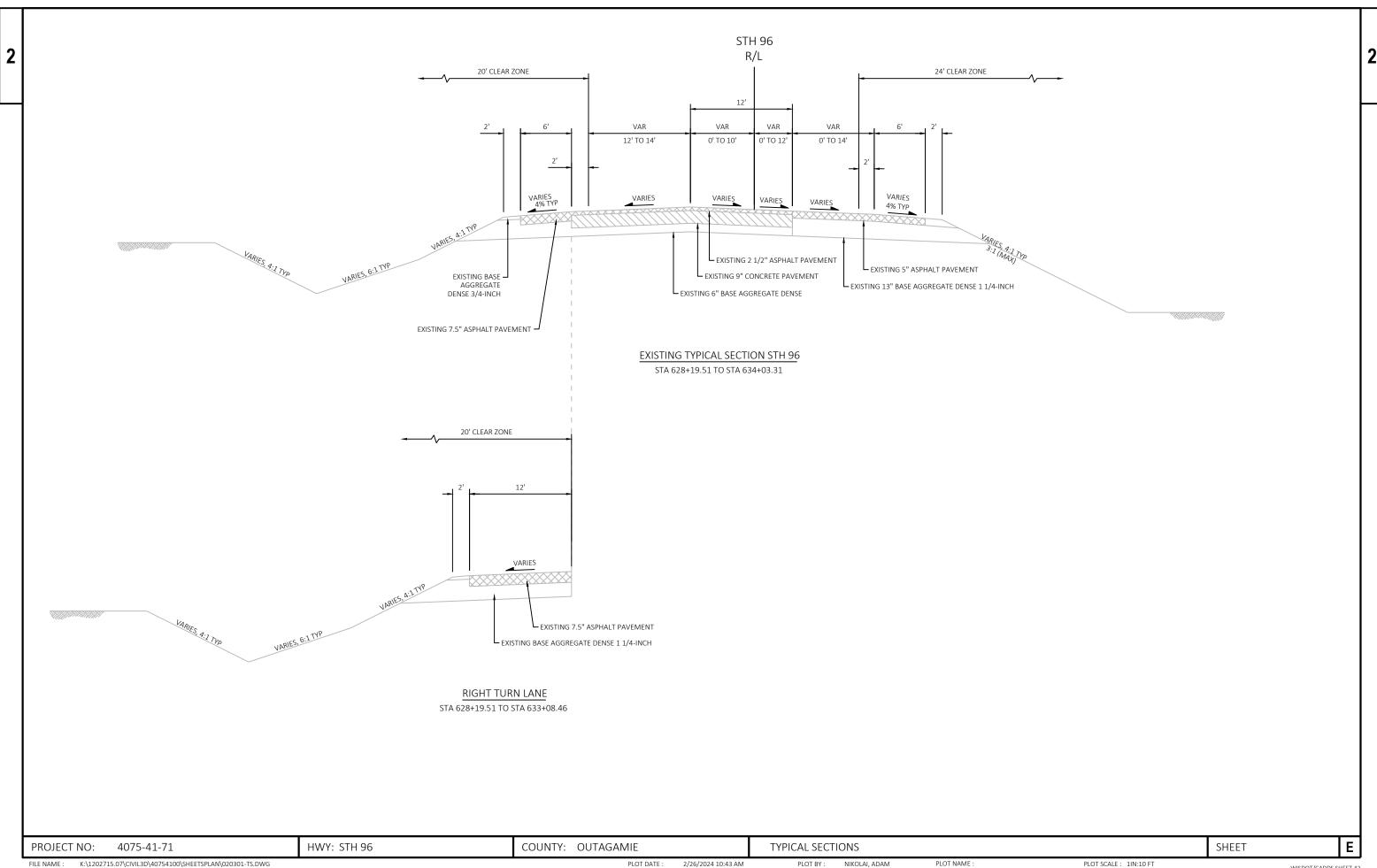


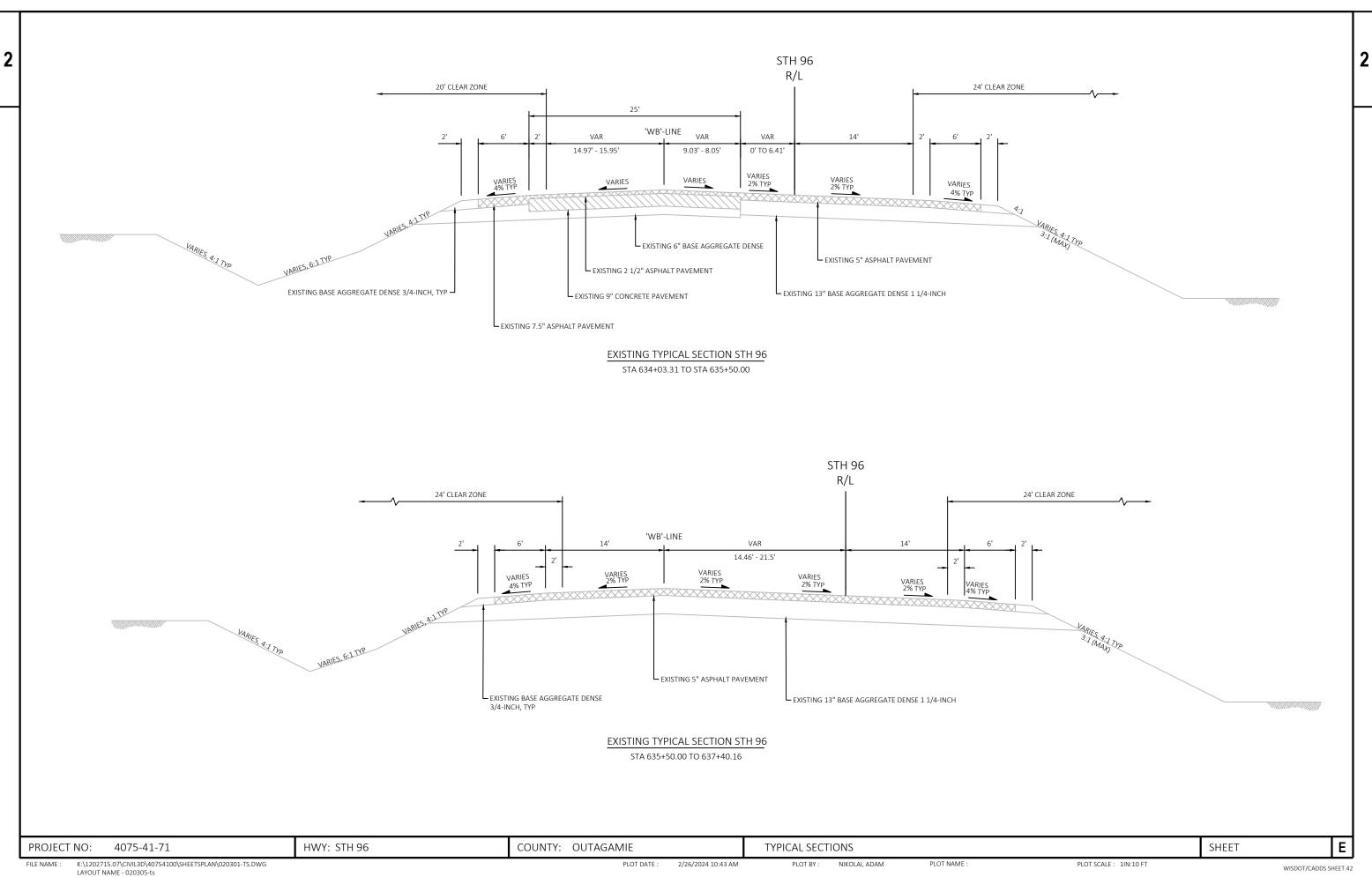
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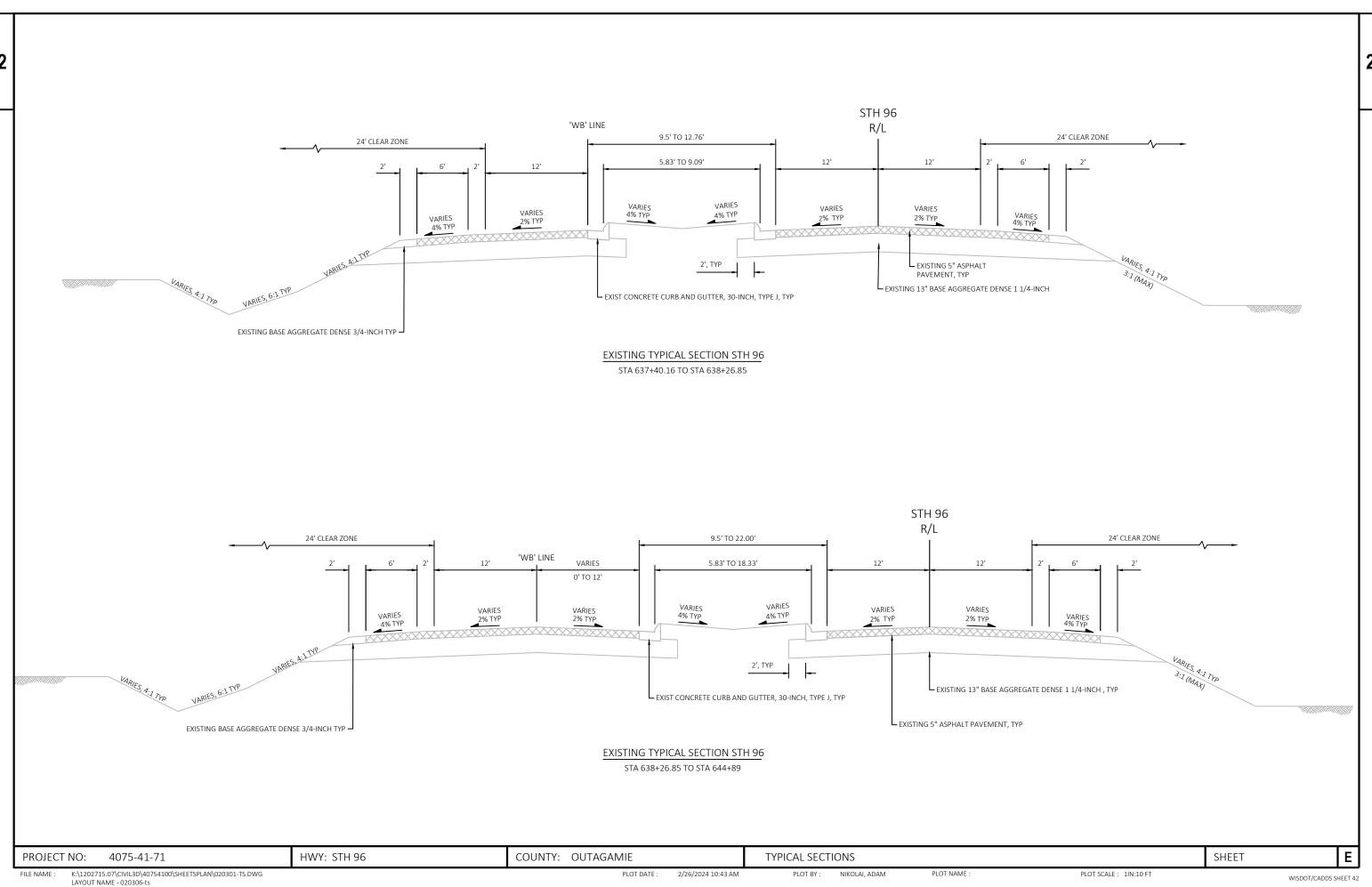


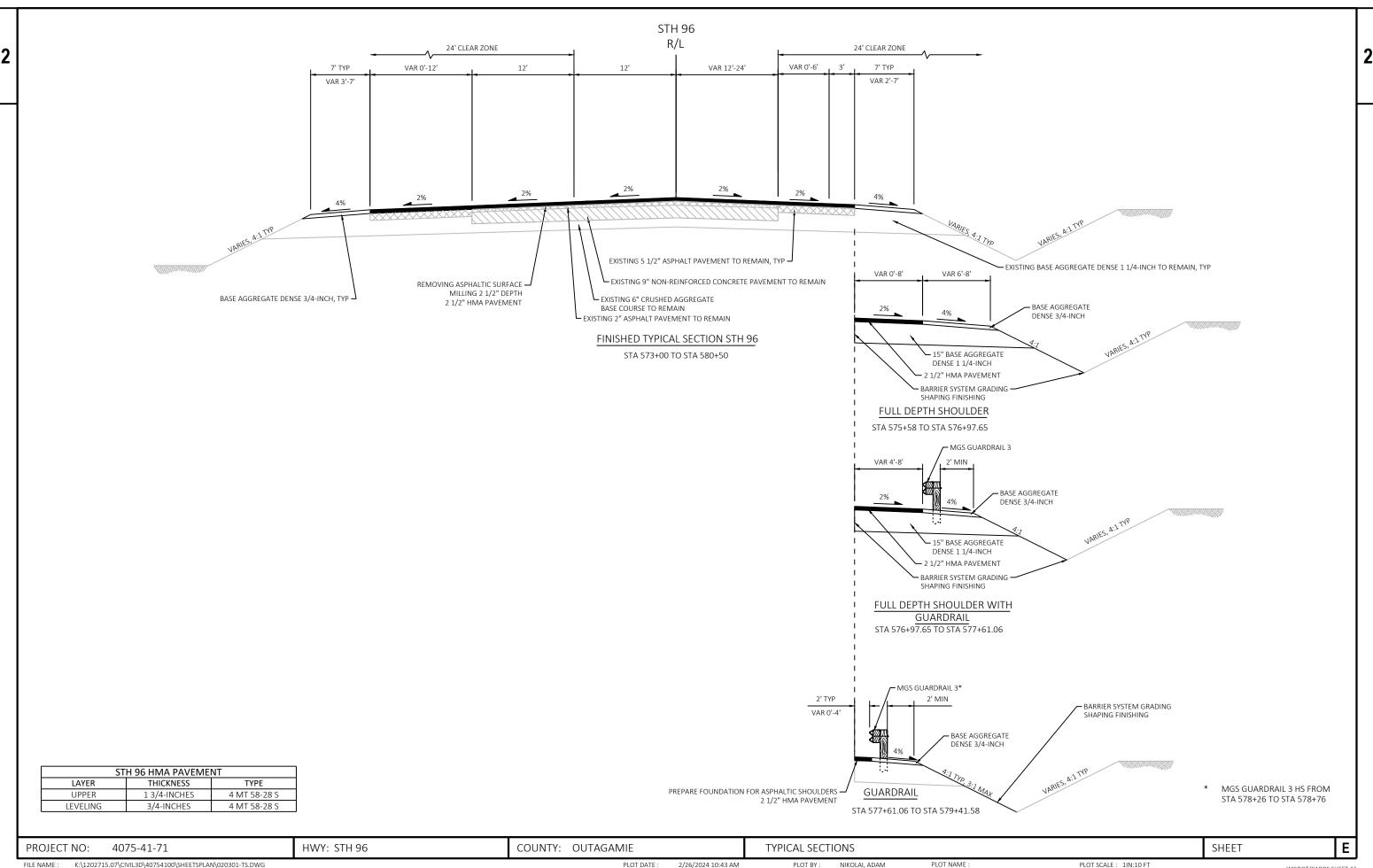


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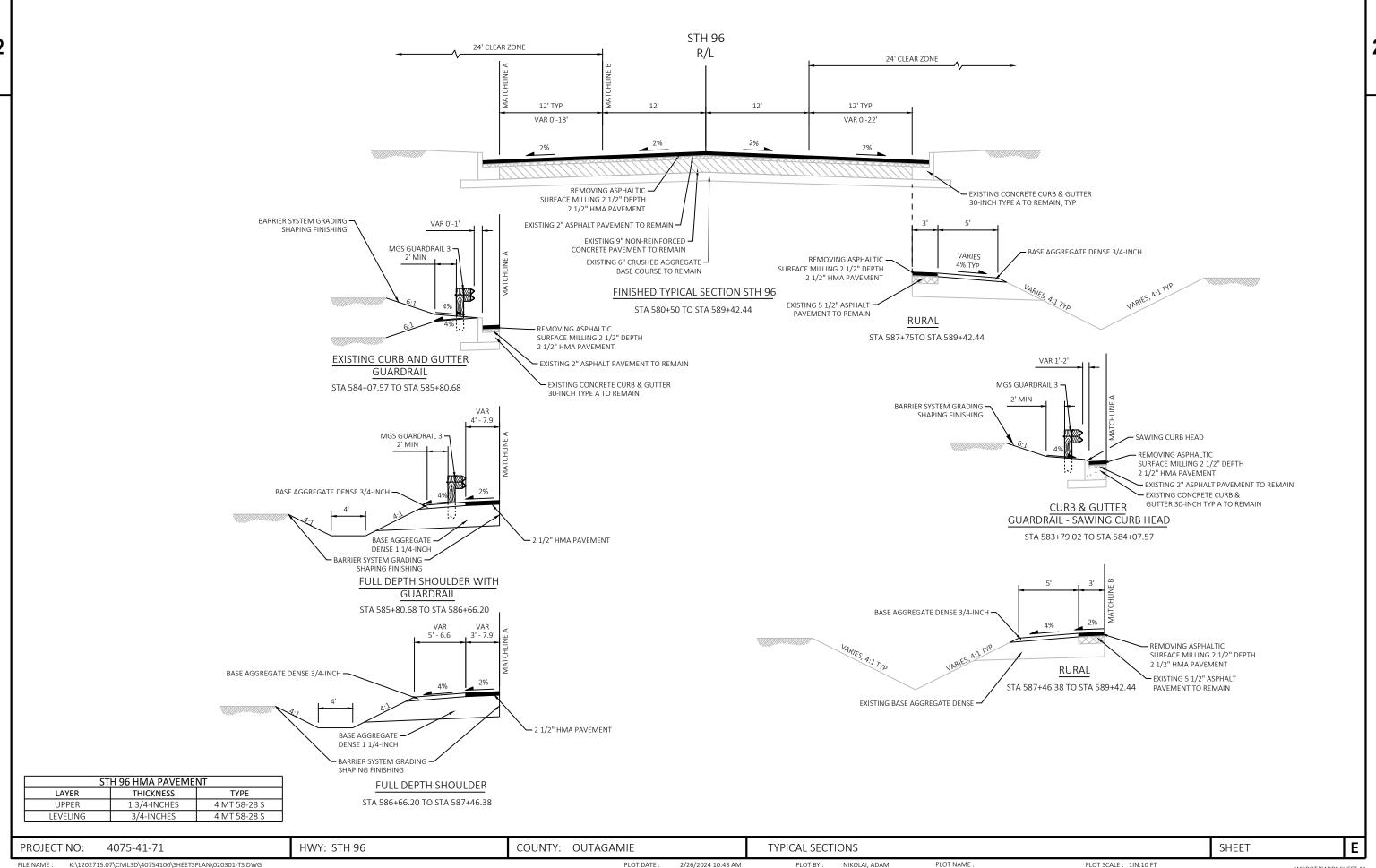


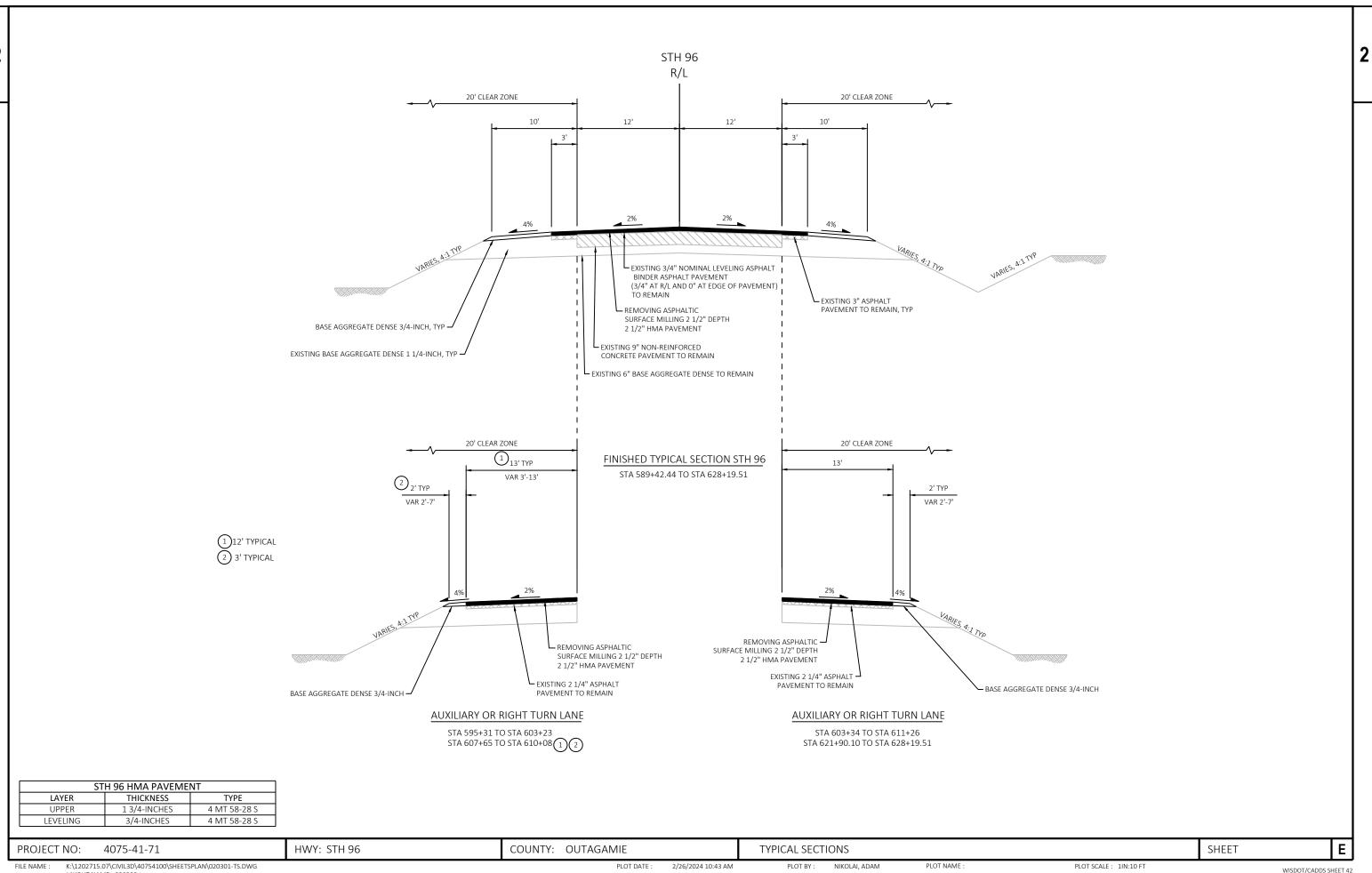




WISDOT/CADDS SHEET 42

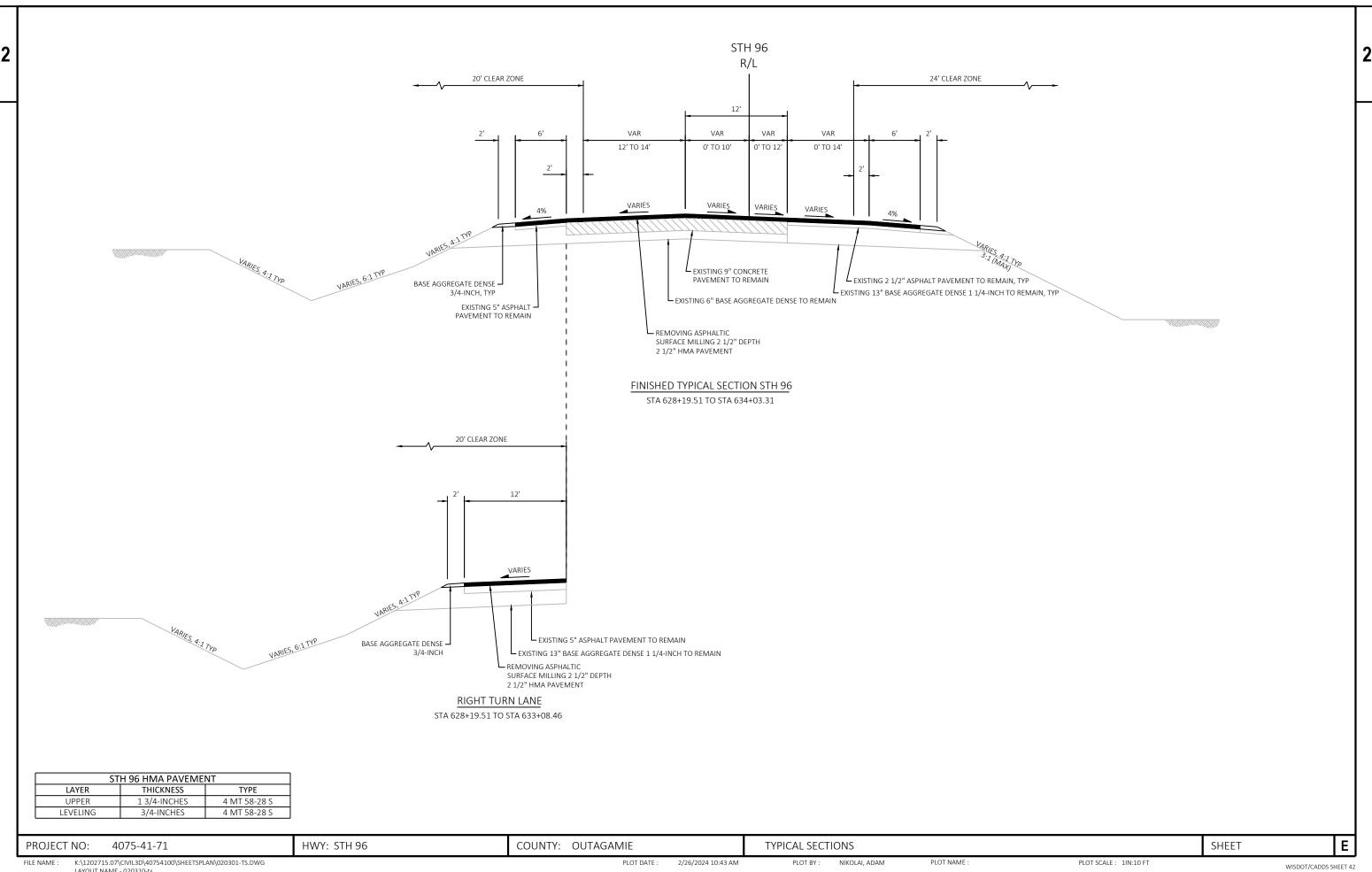
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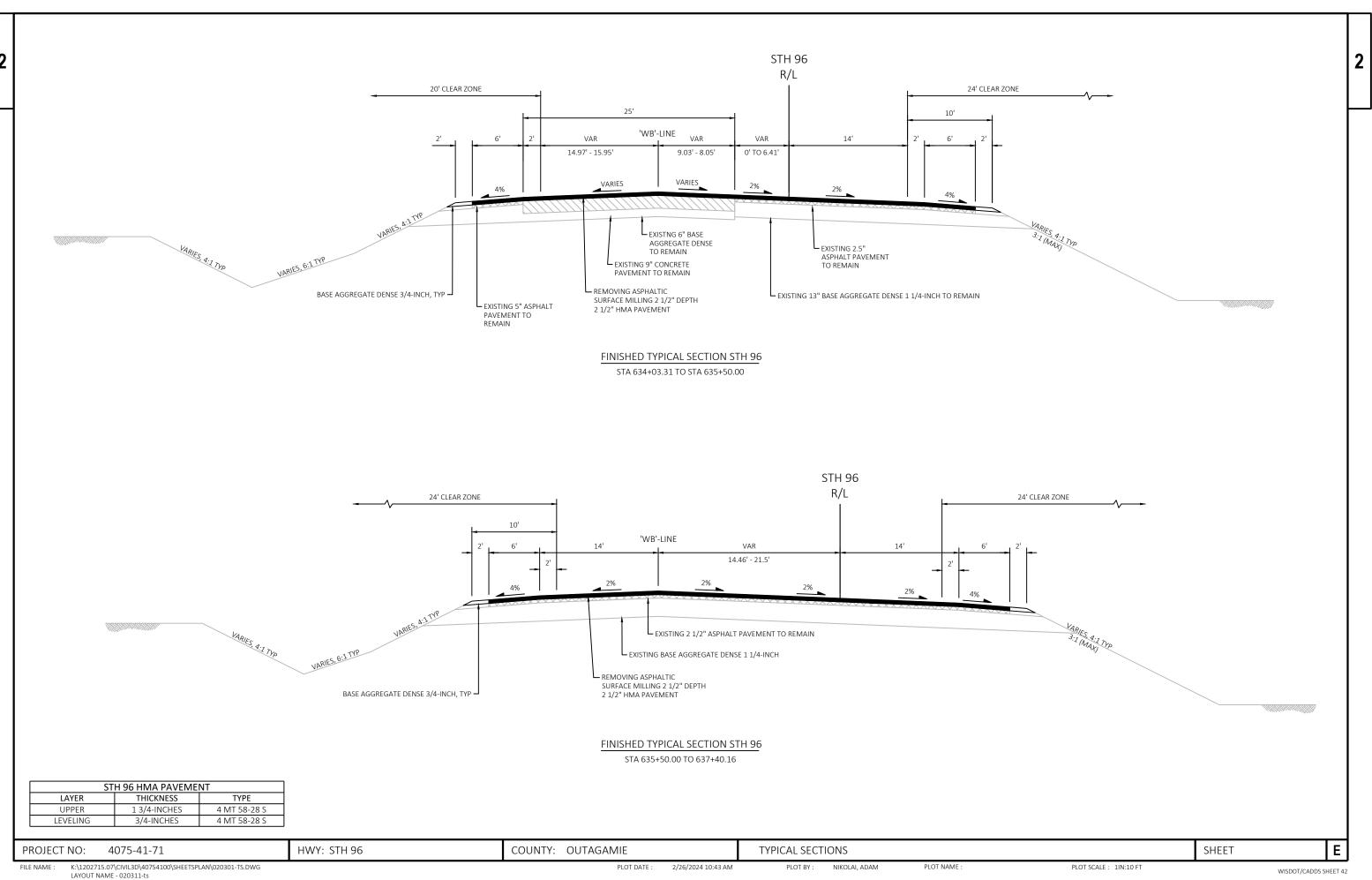


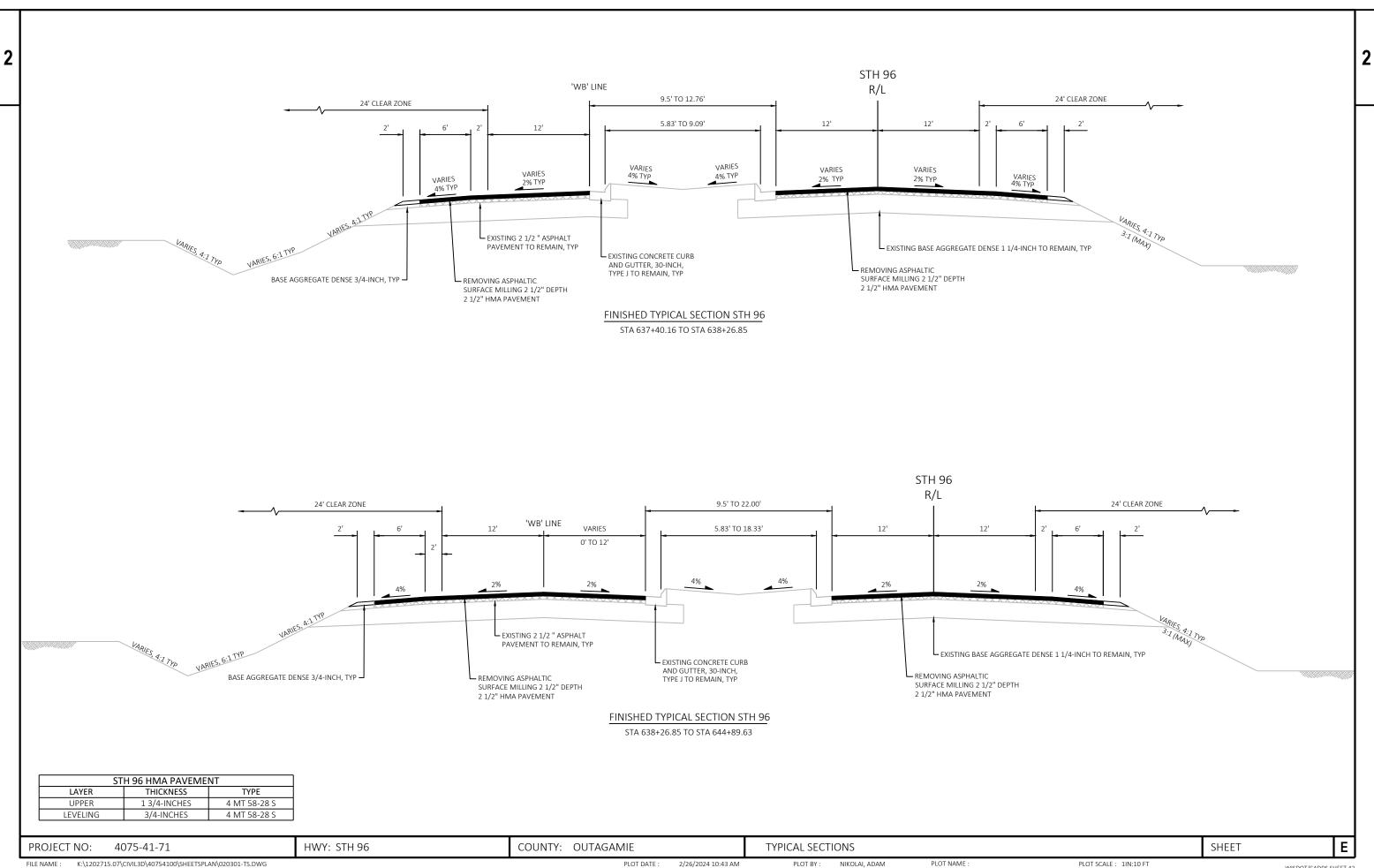


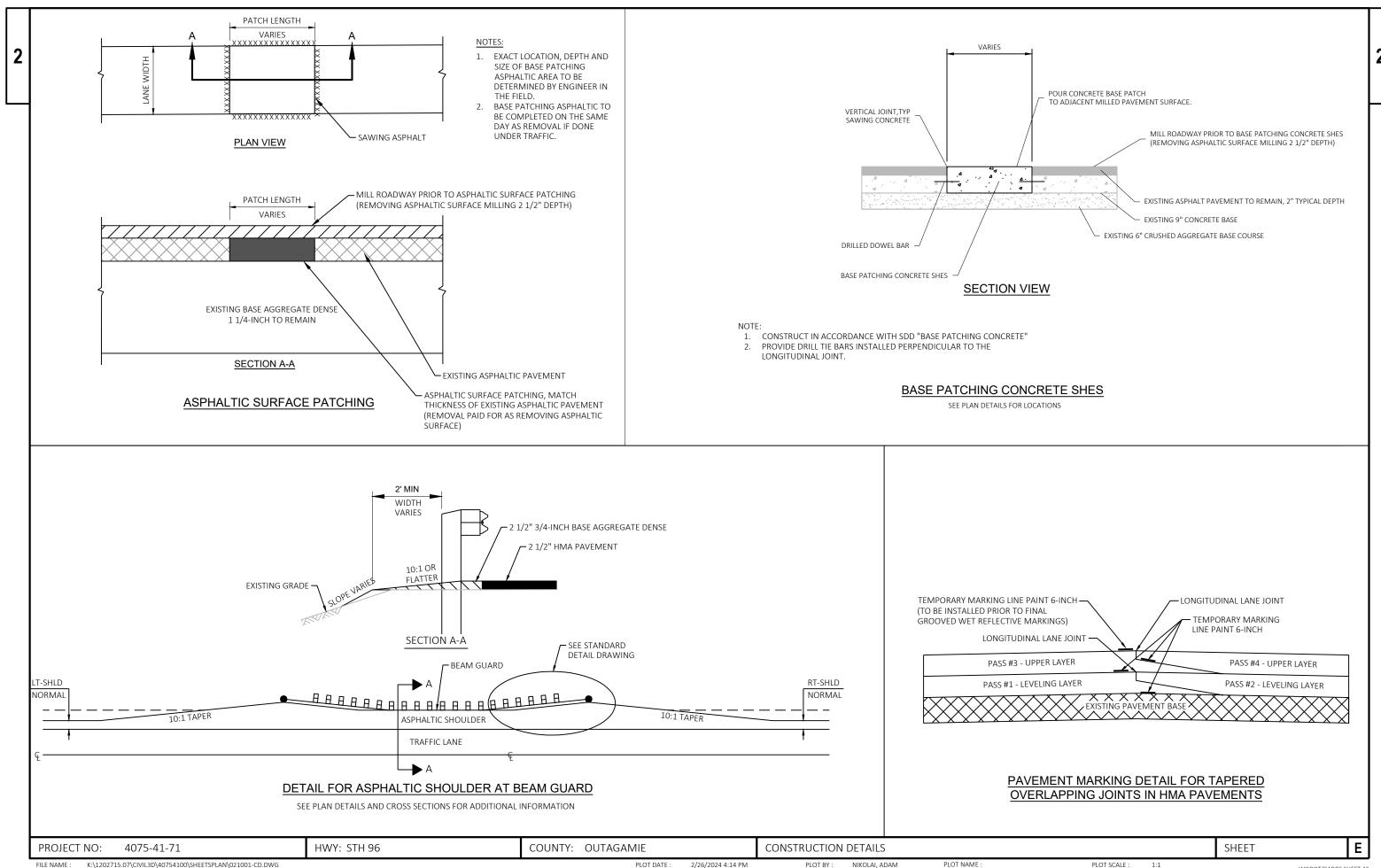
WISDOT/CADDS SHEET 42

LAYOUT NAME - 020309-ts



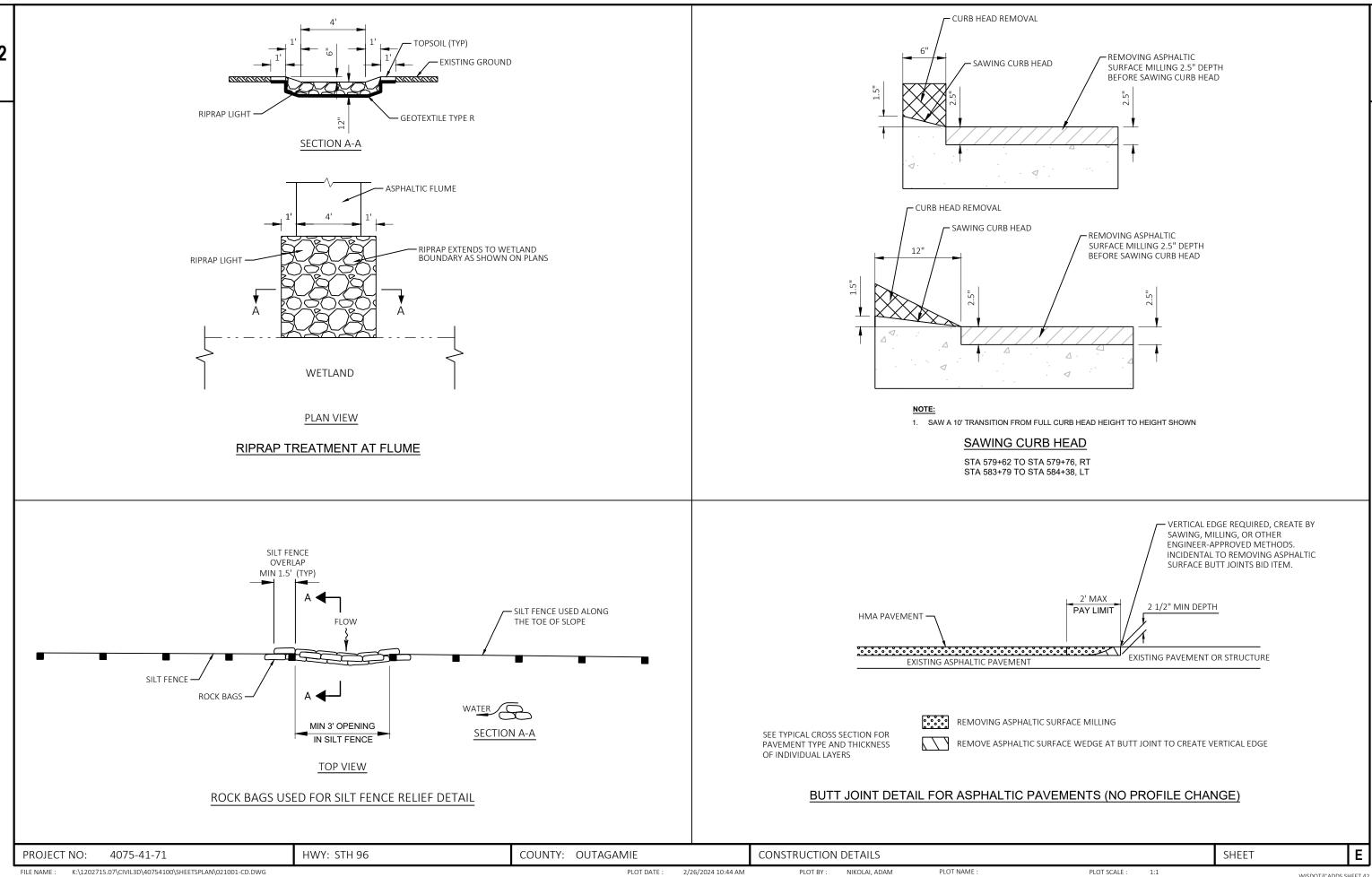




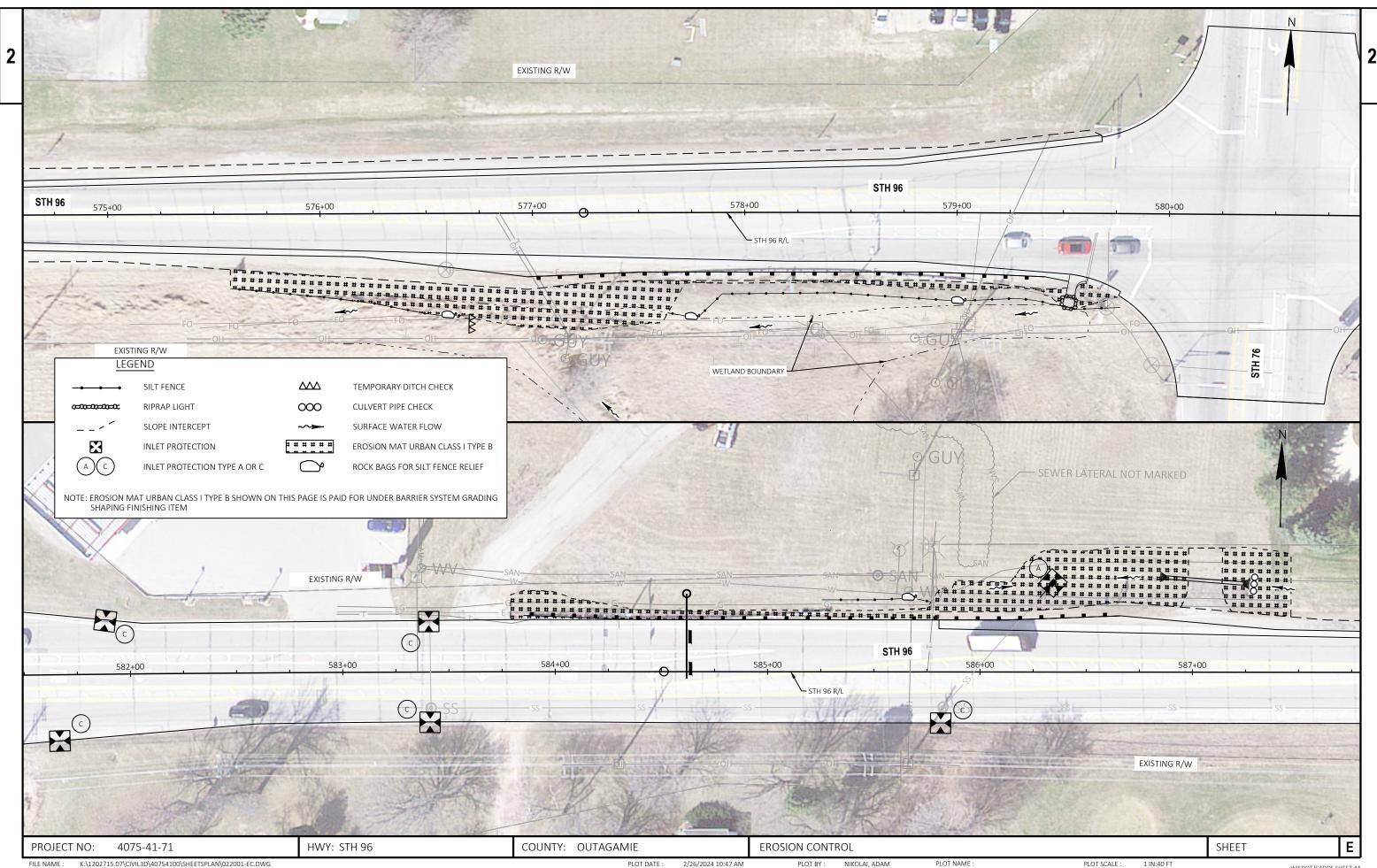


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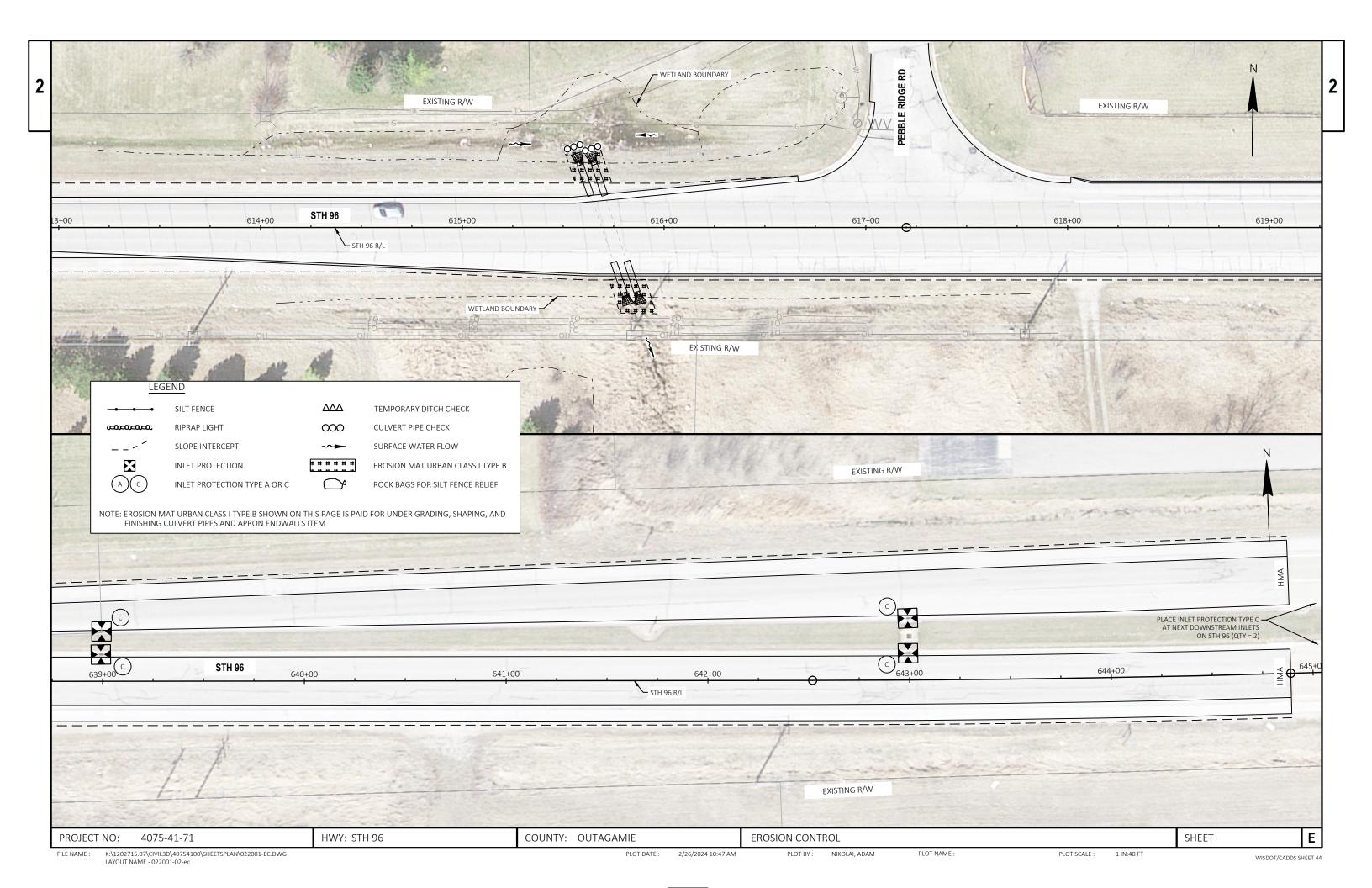
LAYOUT NAME - 021001-cd

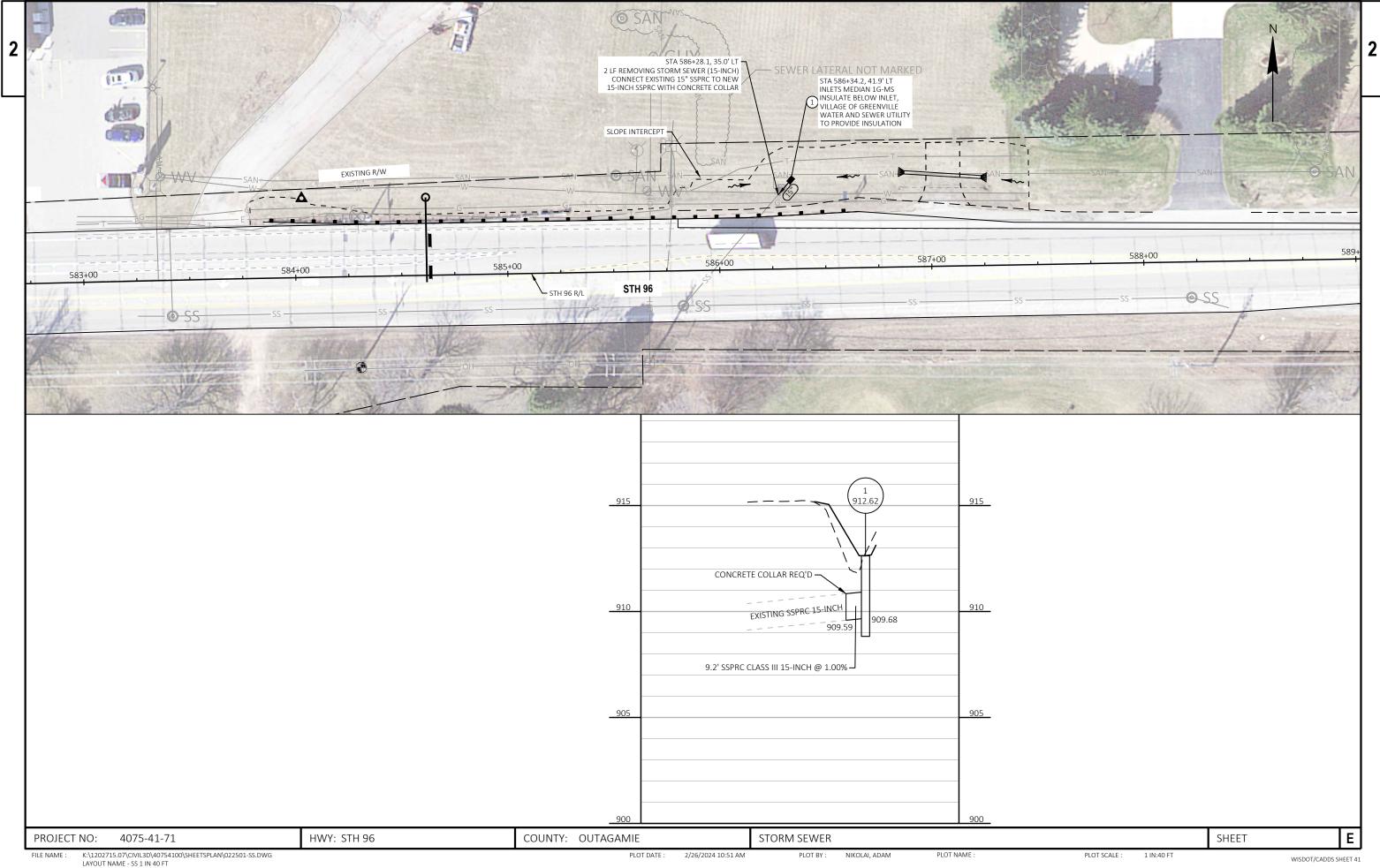


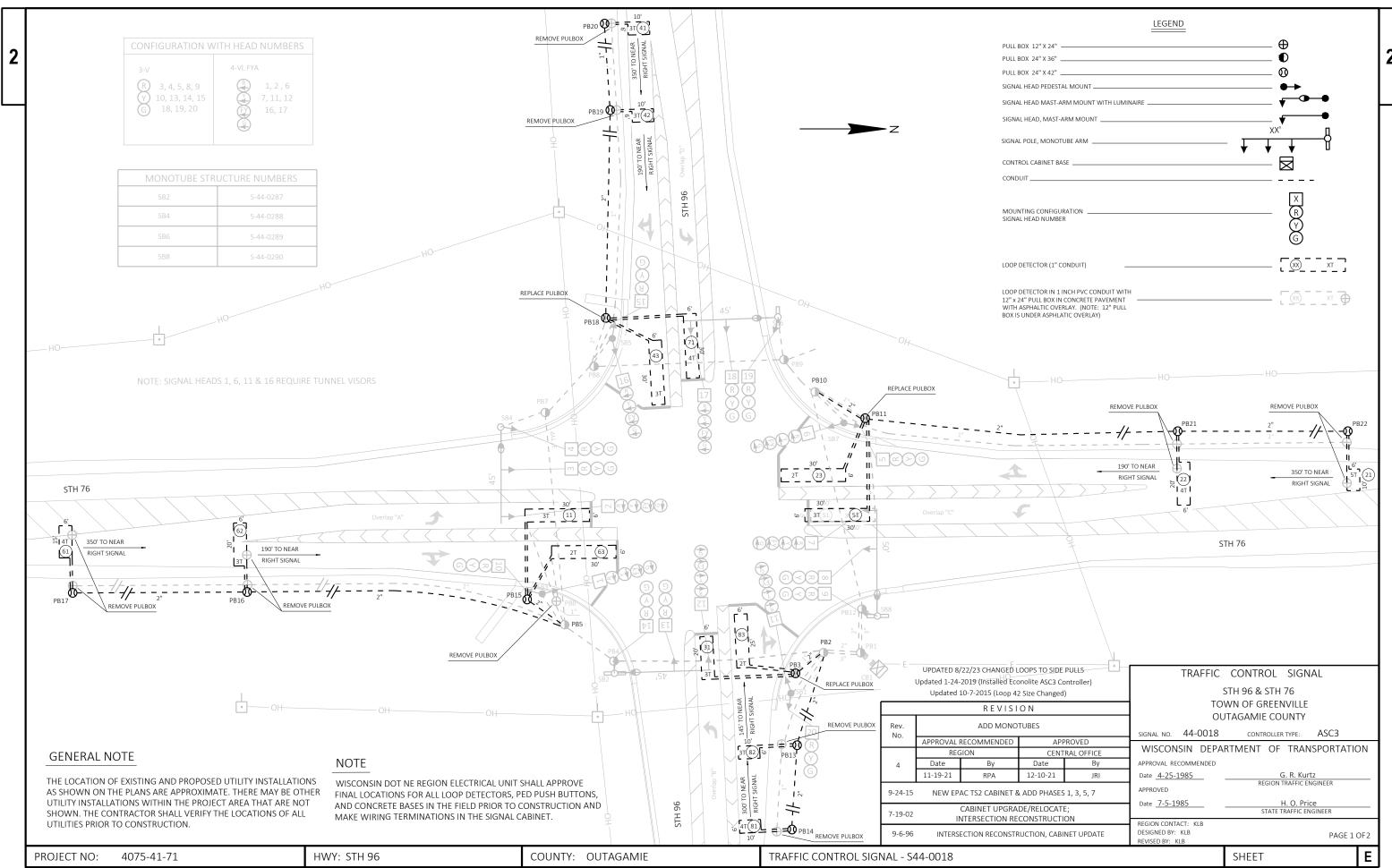
WISDOT/CADDS SHEET 42 LAYOUT NAME - 021001-cd (2)



LAYOUT NAME - 022001-01-ec







FILE NAME : F:\D3_TRAFFI\S44-0018 (96 & 76)\S44-0018 FUTURE.DWG LAYOUT NAME - S44-0018 FUTURE-tcs

PLOT DATE : 1/31/2024 6:26 AM

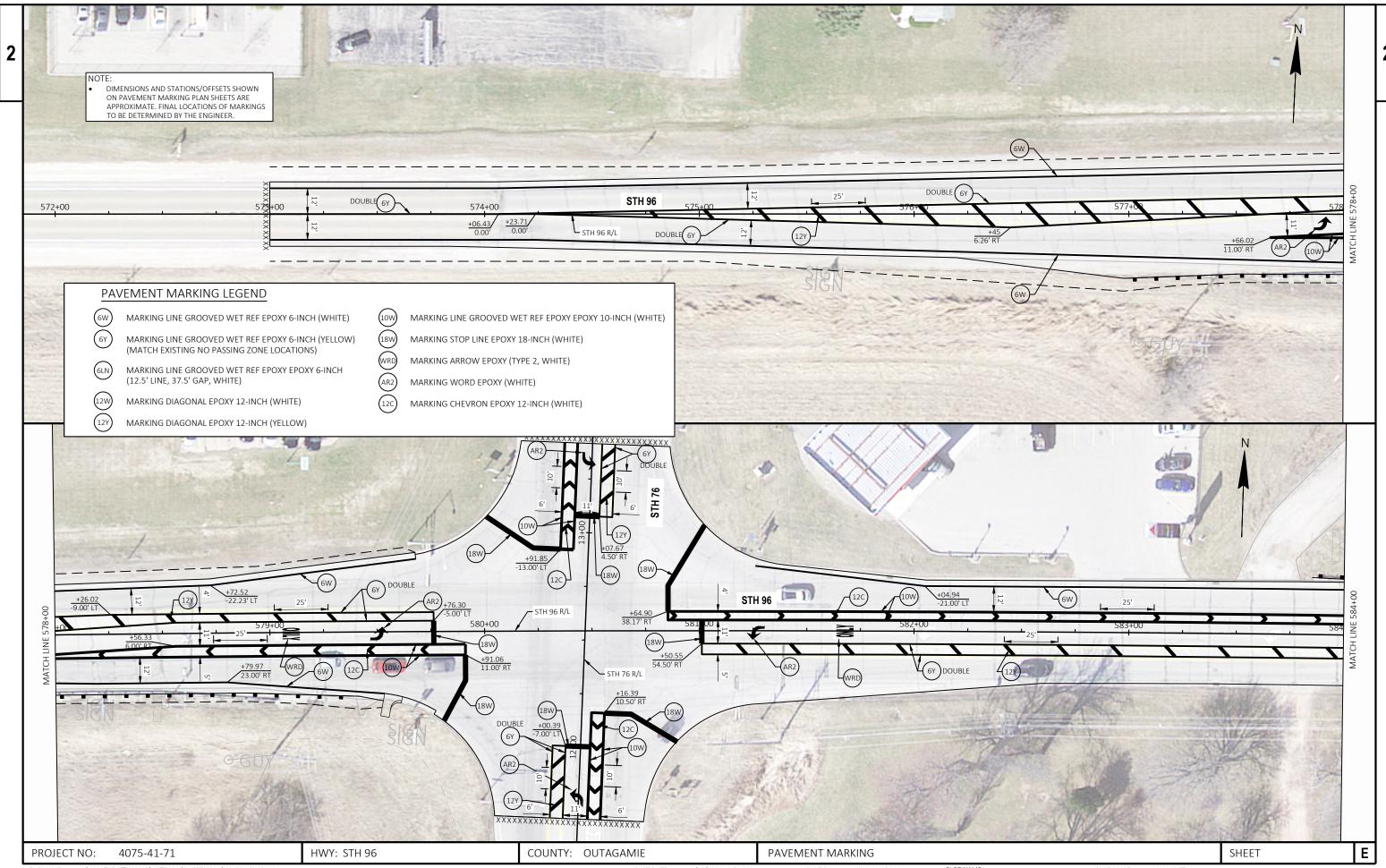
MARTENS, JOHN M

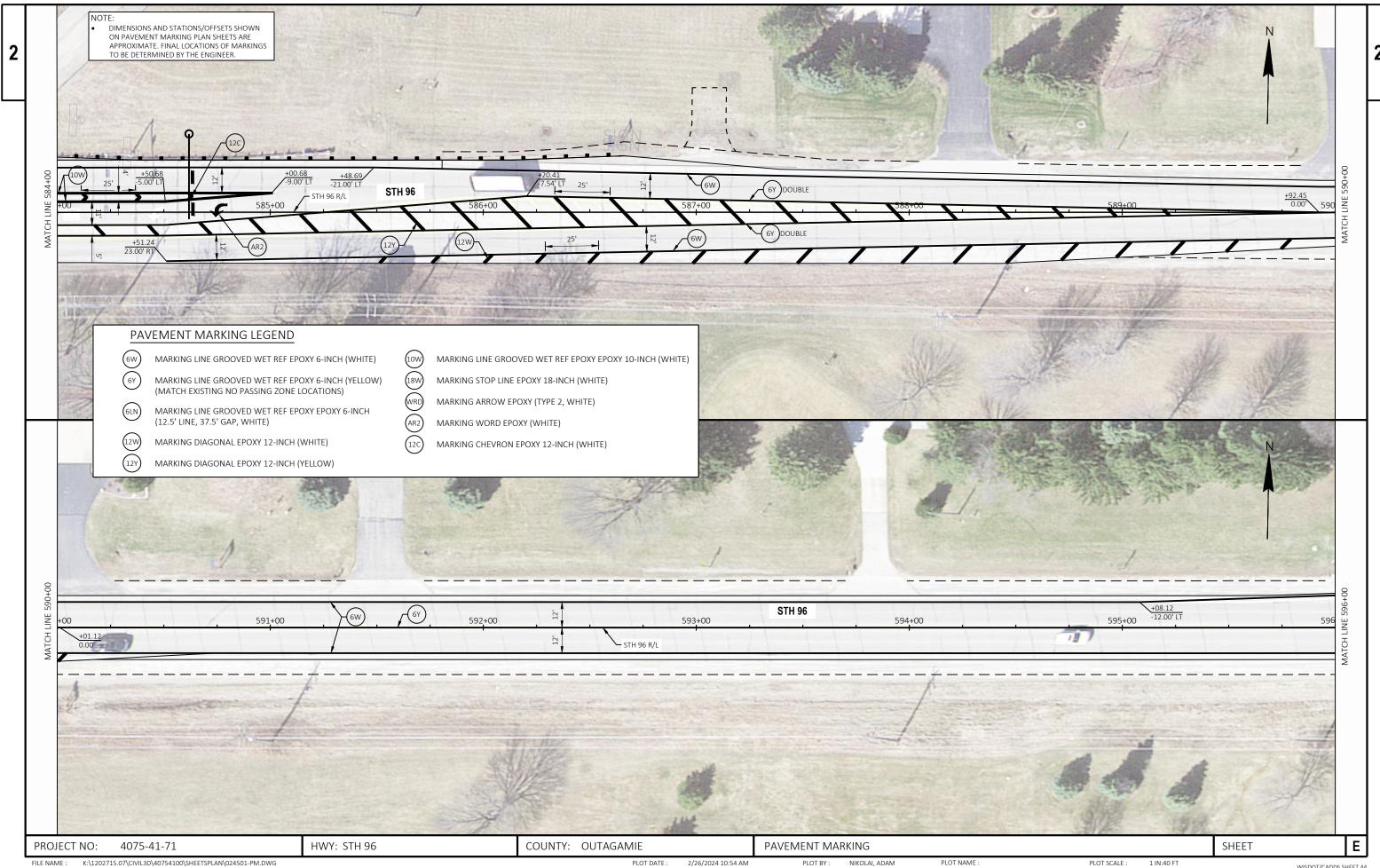
PLOT NAME

PLOT BY:

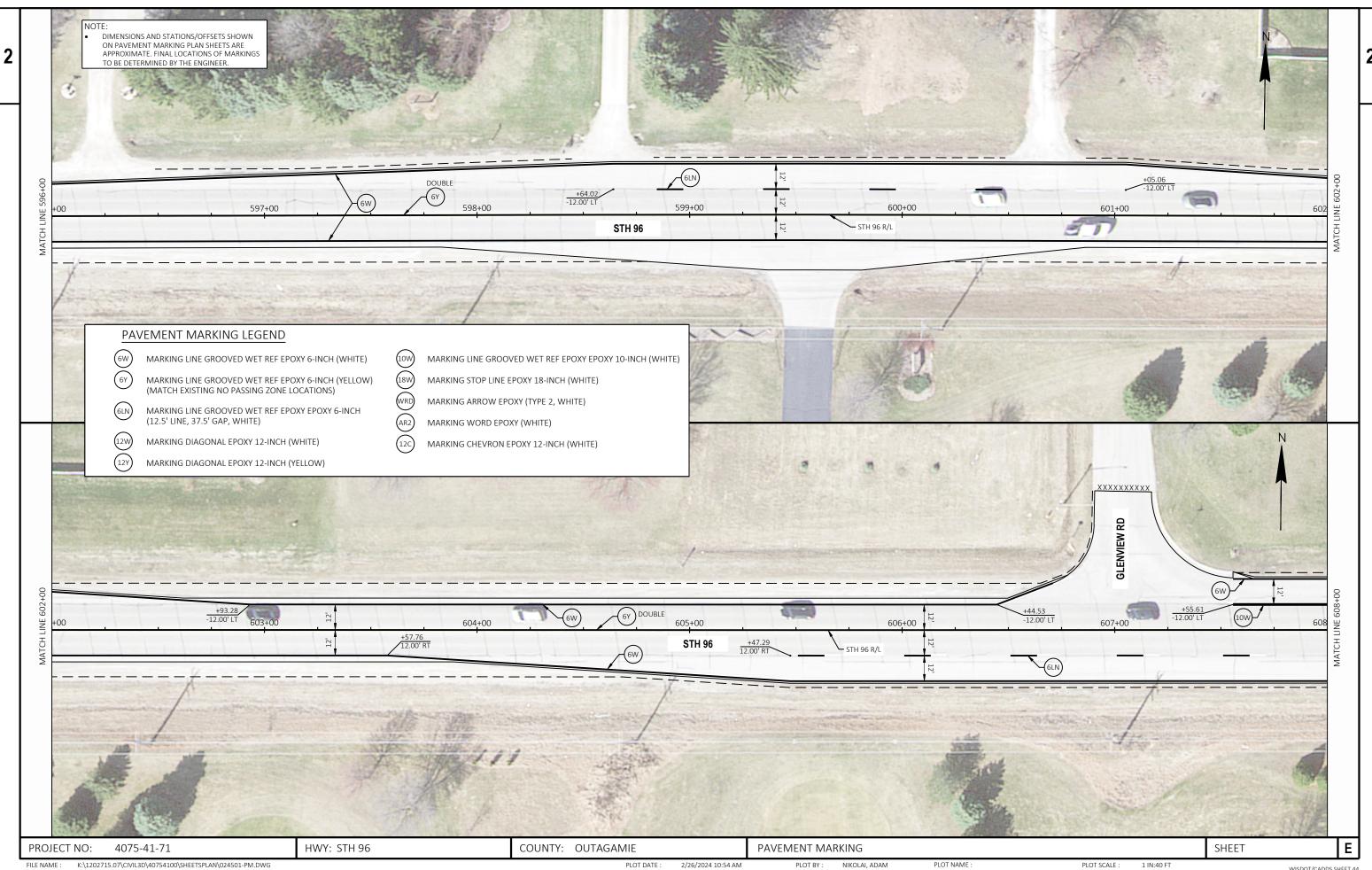
PLOT SCALE :

1 IN:40 FT

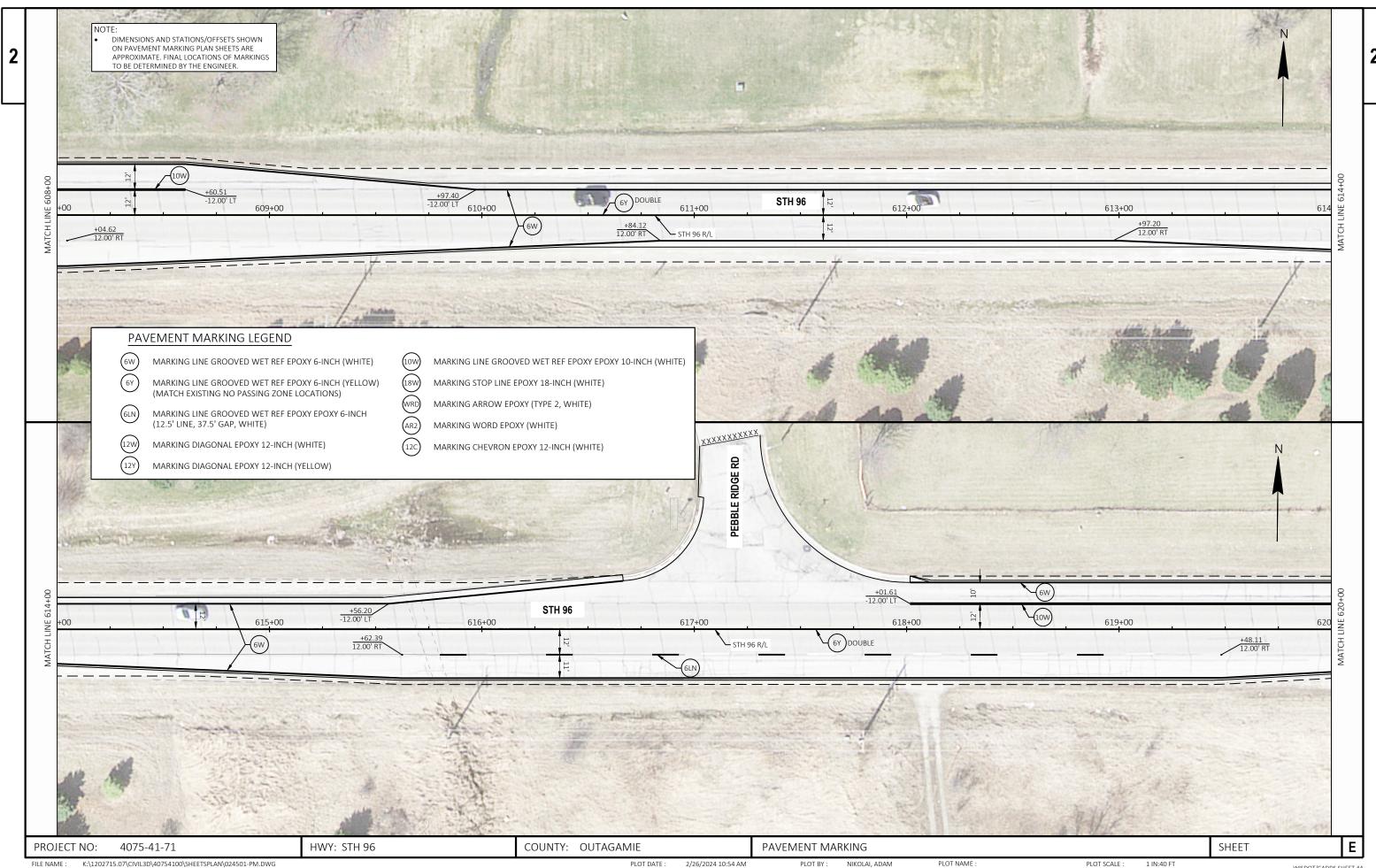




LAYOUT NAME - 024501-02-pm



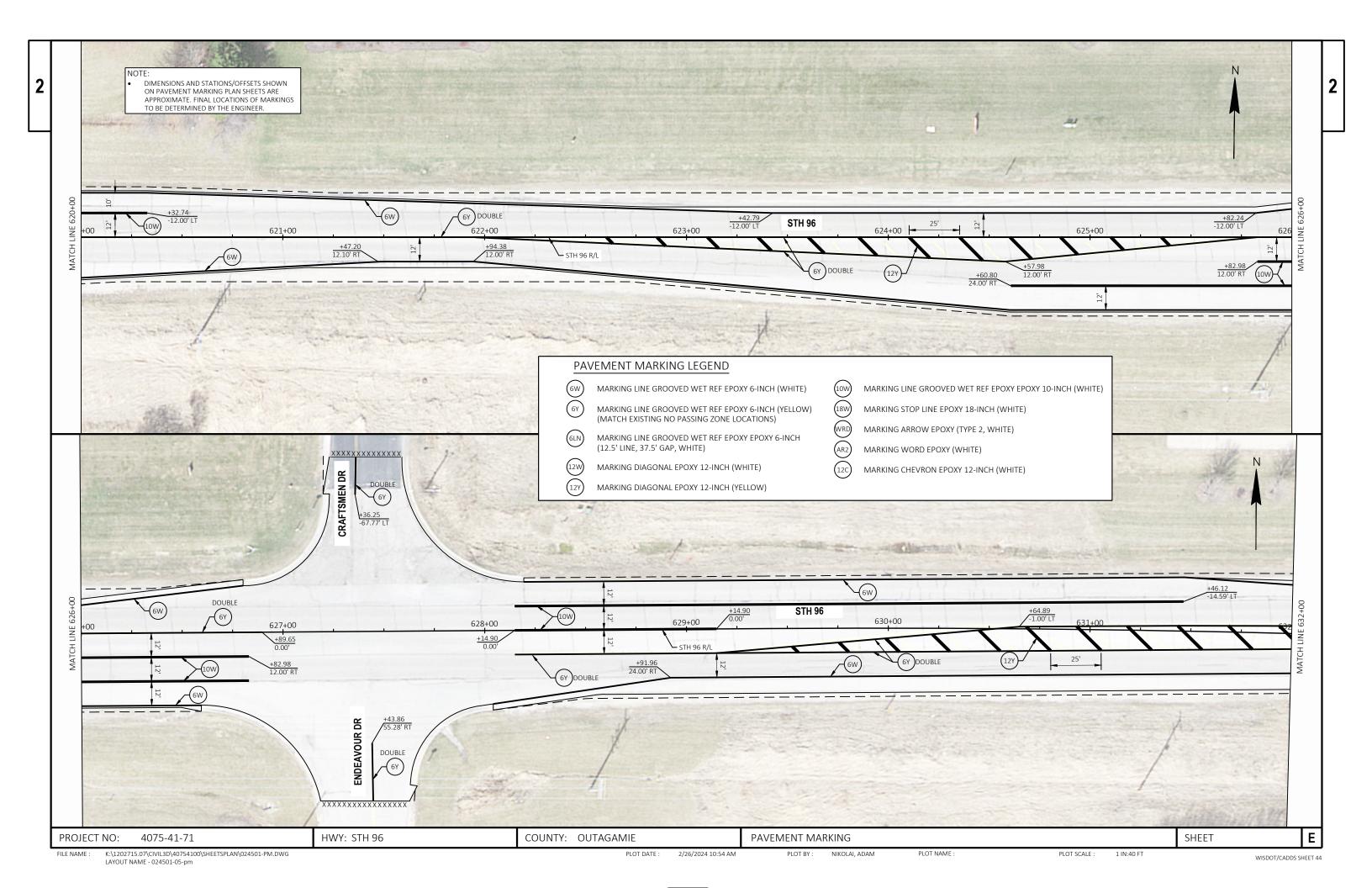
LAYOUT NAME - 024501-03-pm

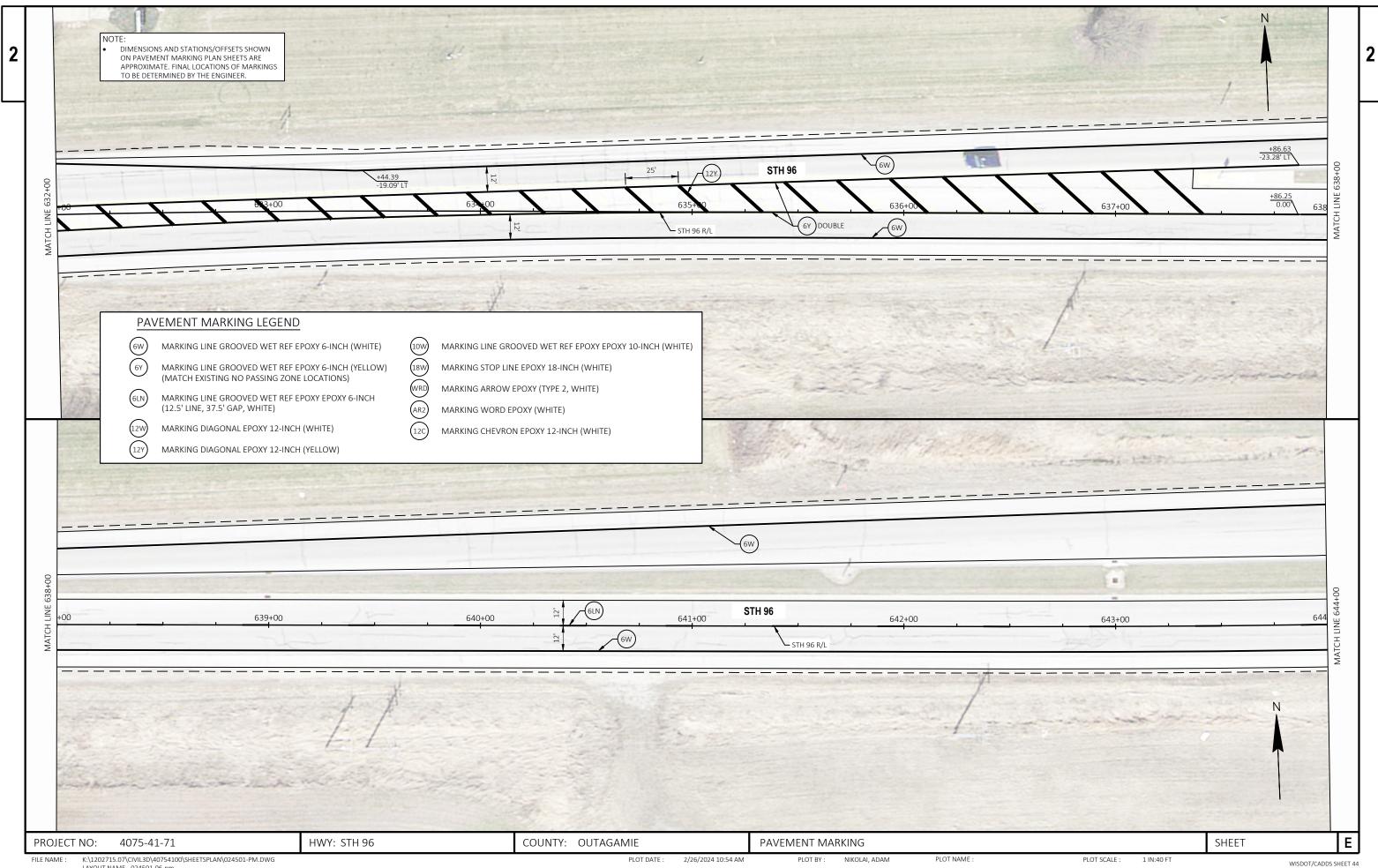


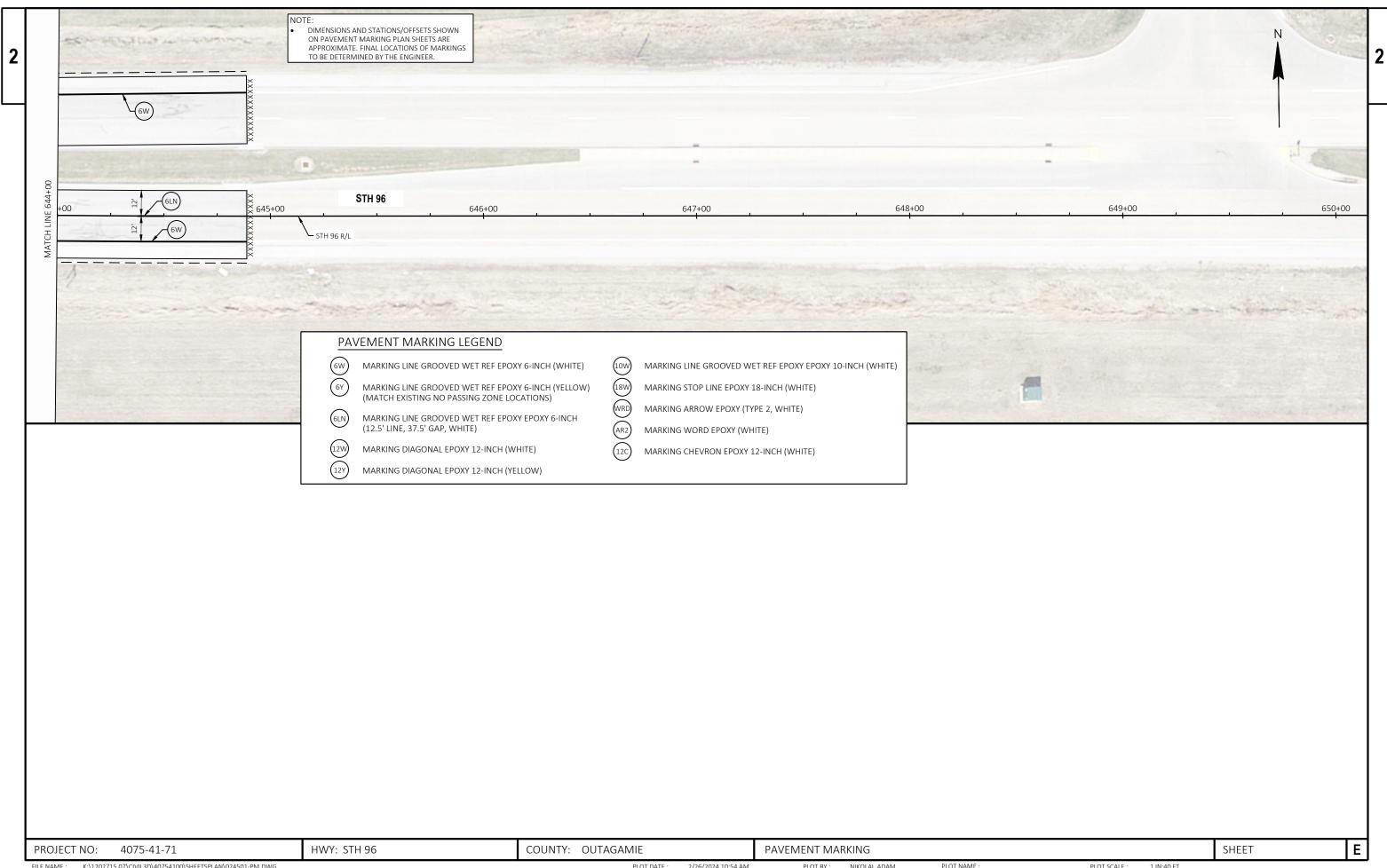
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LAYOUT NAME - 024501-04-pm

DATE . 2/20/2024 10:34 AIVI FEOT BT . ININOLAI, ADAIVI TEOT MAIVIE .







E: K:\1202715.07\CIVIL3D\40754100\SHEETSPLAN\024501-PM.DWG

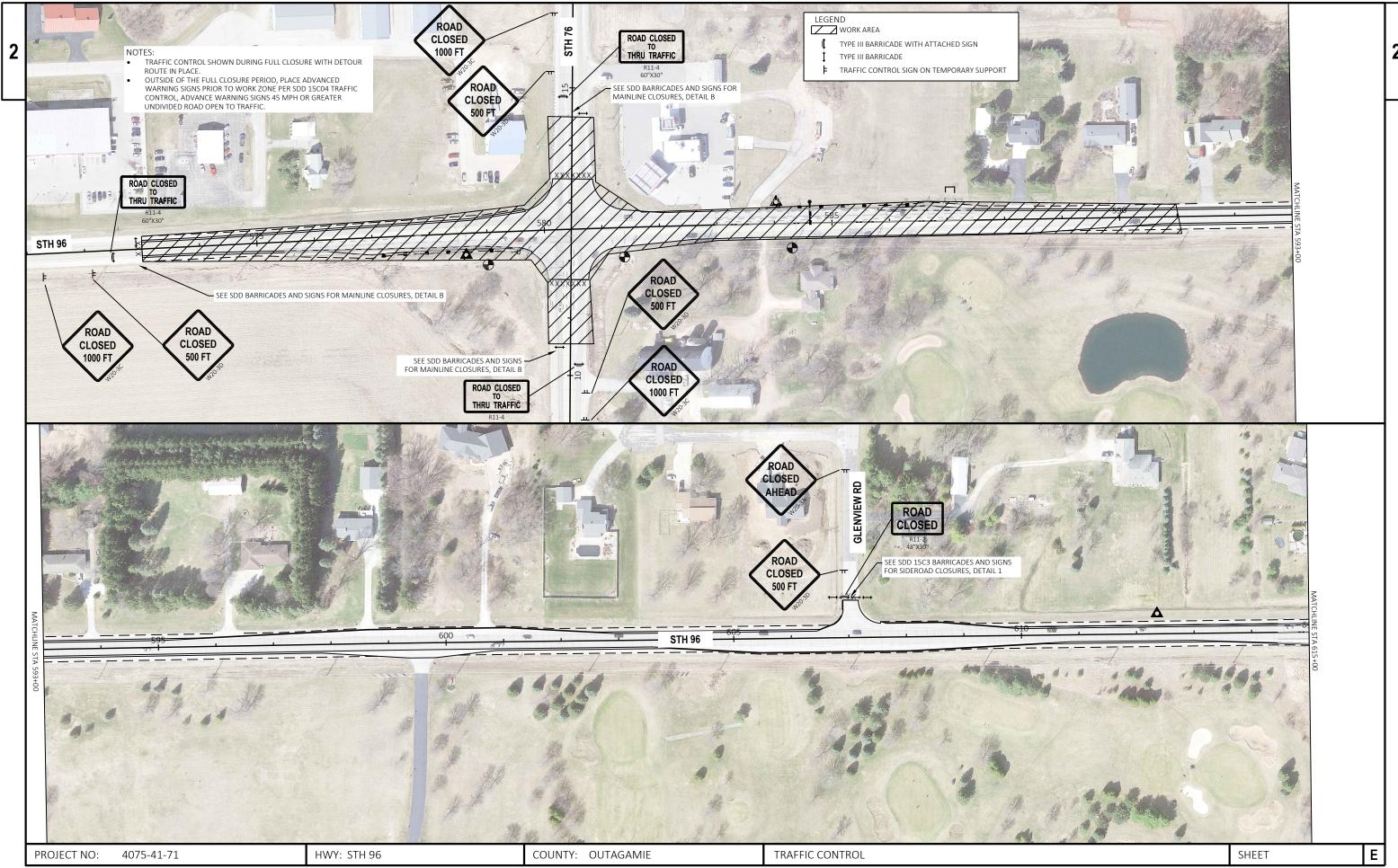
PLOT DATE: 2/26/2024 10:54 AM

PLOT BY: NIKOLAI, ADAM

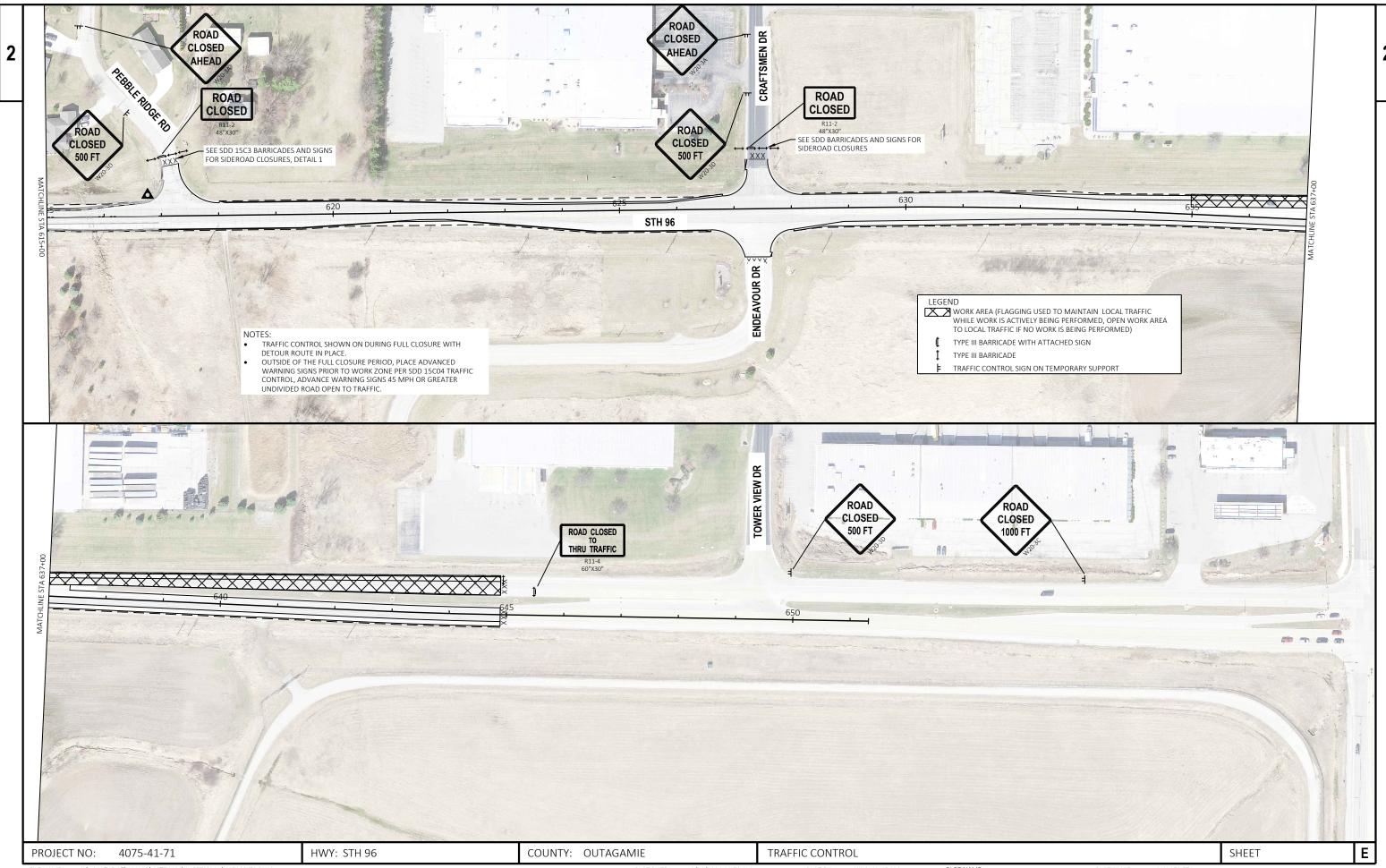
PLOT NAME: PLOT NAME: 1 IN:40 FT

WISDOT/CADDS SHEET 44

WISDOT/CADDS SHEET 44



FILE NAME: K:\1202715.07\CIVIL3D\\40754100\SHEETSPLAN\\025100-TC.DWG PLOT DATE: 2/26/2024 10:57 AM PLOT BY: NIKOLAI, ADAM PLOT NAME: PLOT NAME: 1 in:150 FT WISDOT/CADDS SHEET 44 LAYOUT NAME - Plan Dbi 1 in 200 FT

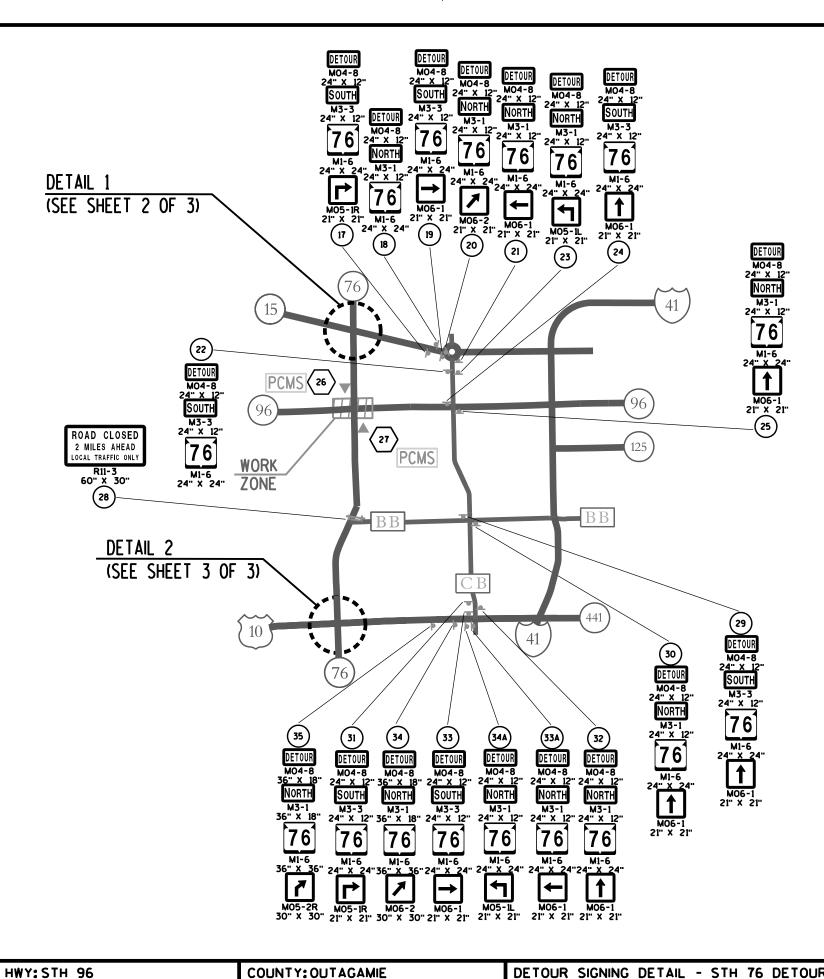


FILE NAME : K:\1202715.07\CIVIL3D\\40754100\SHEETSPLAN\\025100-TC.DWG PLOT DATE : 2/26/2024 10:58 AM PLOT BY : NIKOLAI, ADAM PLOT NAME : PLOT NAME : 1 IN:150 FT WISDOT/CADDS SHEET 44 LAYOUT NAME - Plan Dbl 1 IN 200 FT (2)



SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET ▲ PCMS PORTABLE CHANGEABLE MESSAGE SIGN SIGN MOUNTED ON TYPE III BARRICADE **▼** POST MOUNTED SIGN

LEGEND



SHEET 1 OF 3

PLAN SHEET PRODUCED BY WisDOT - NE REGION

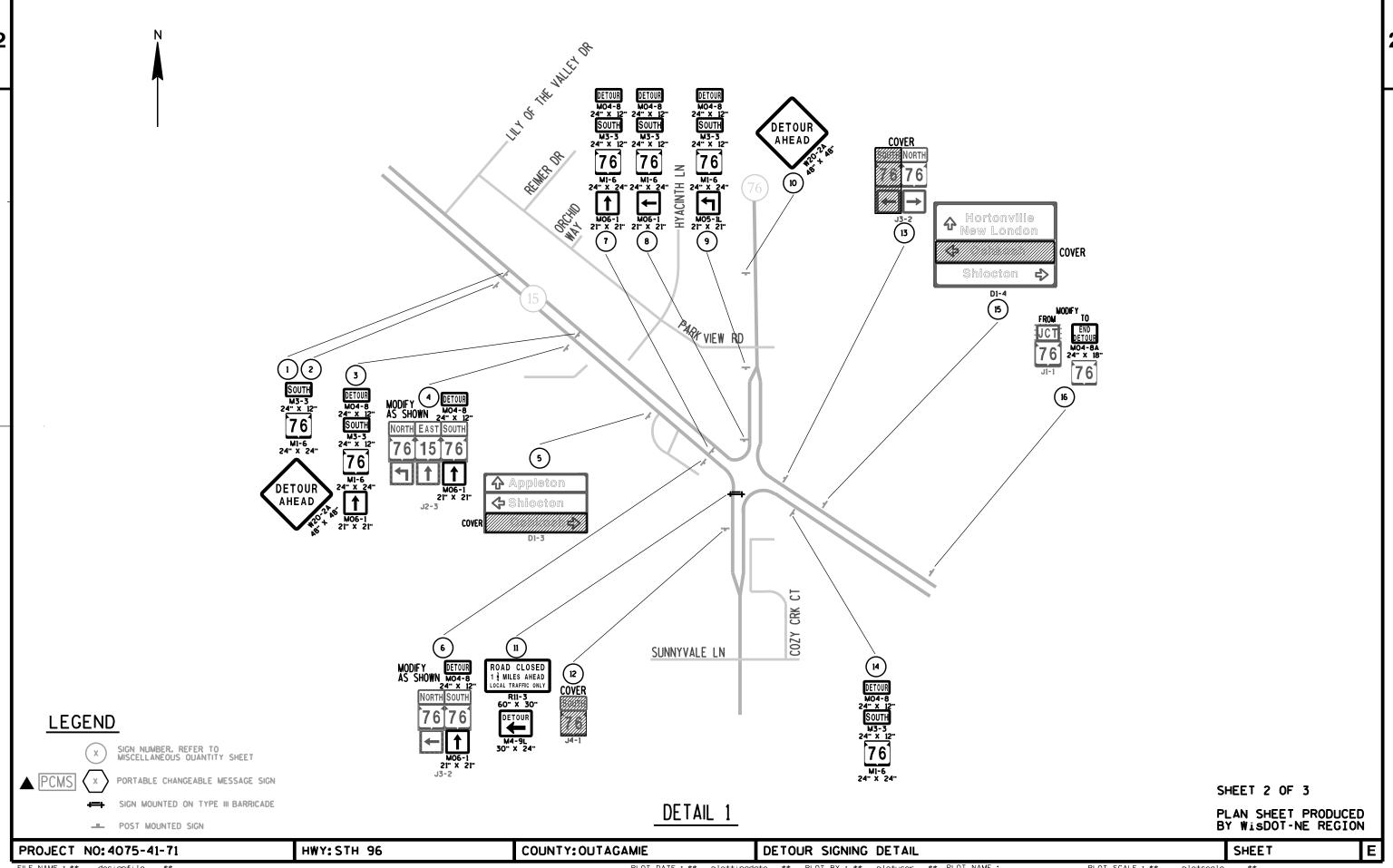
PROJECT NO: 4075-41-71

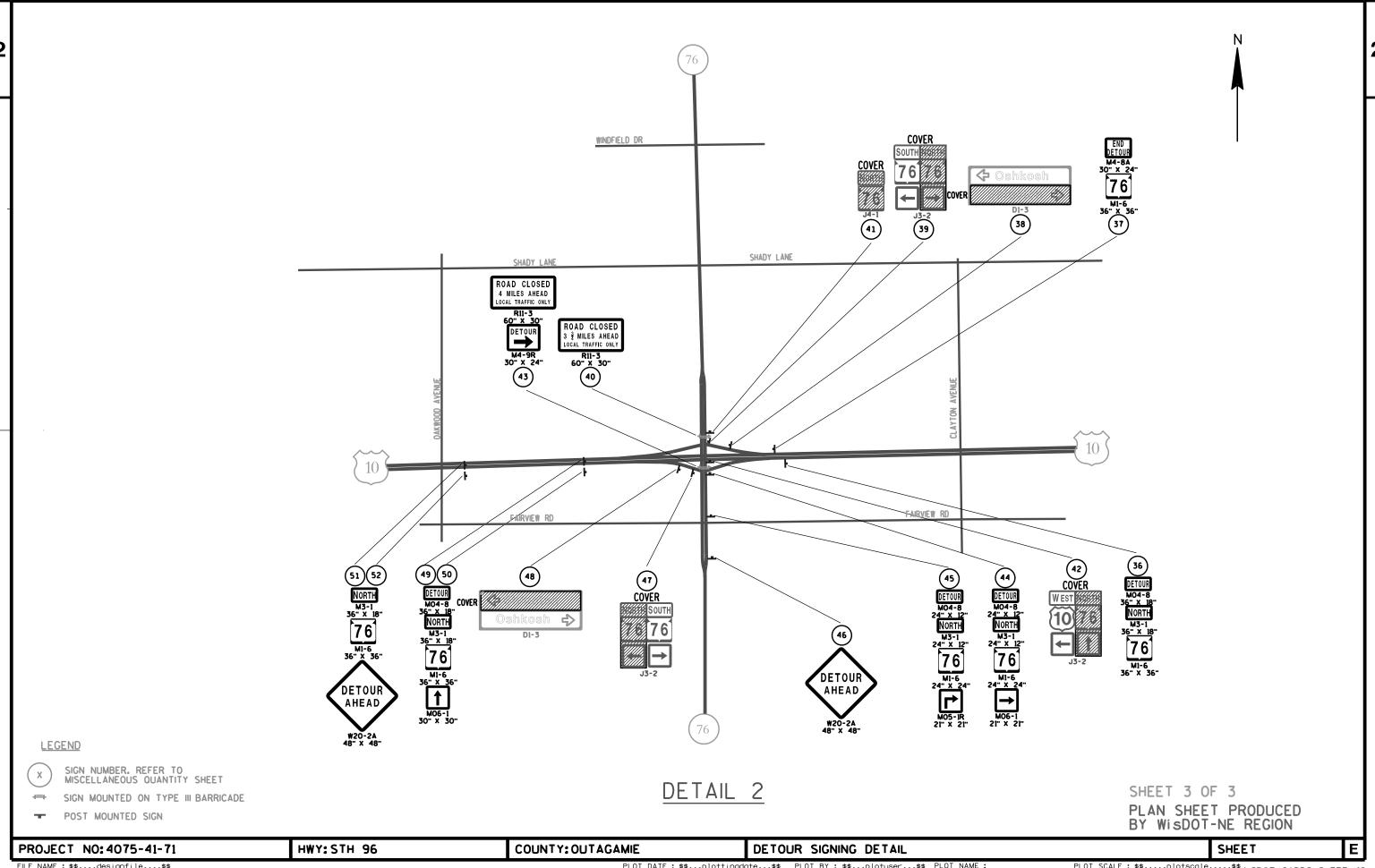
COUNTY: OUTAGAMIE

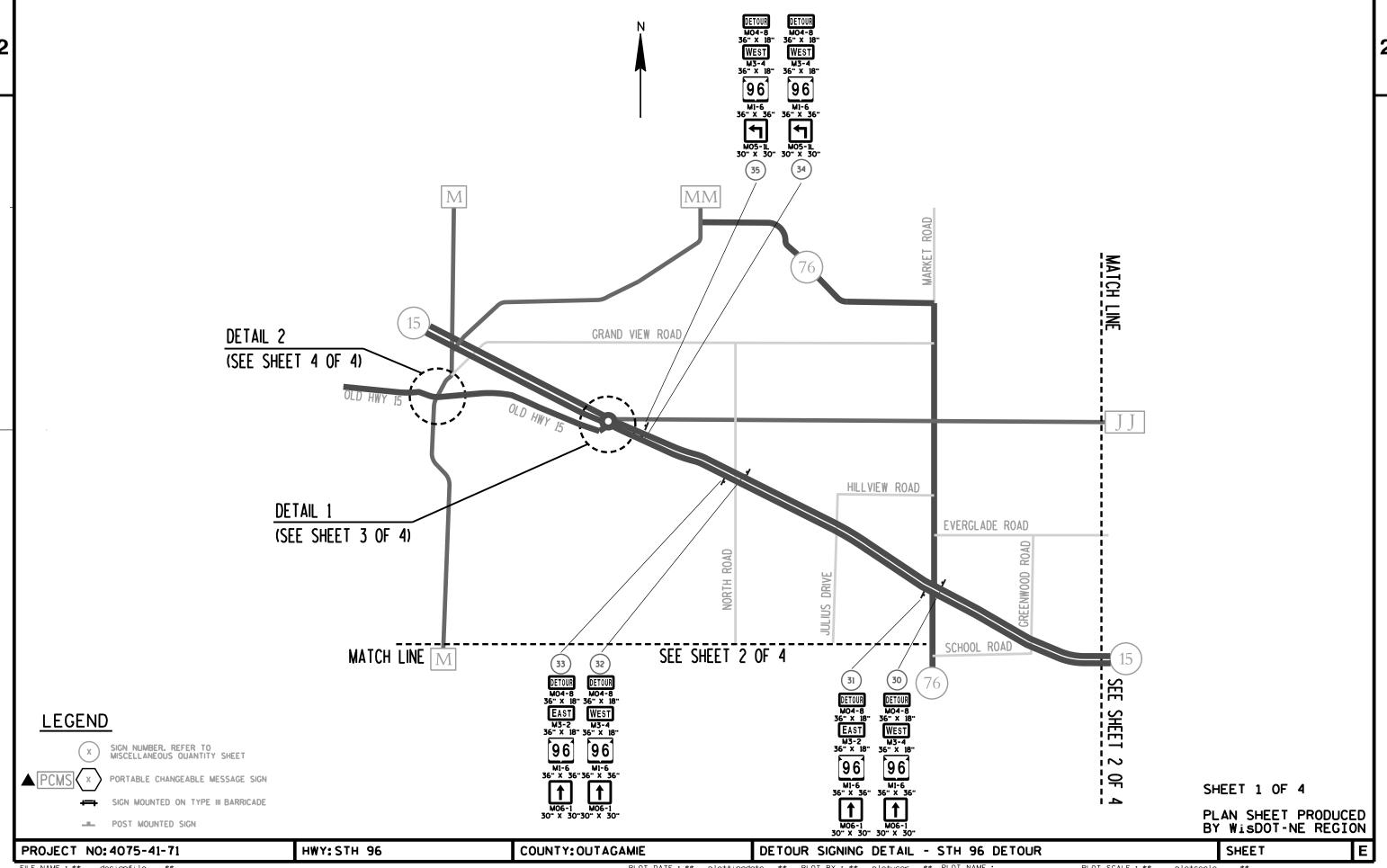
DETOUR SIGNING DETAIL - STH 76 DETOUR

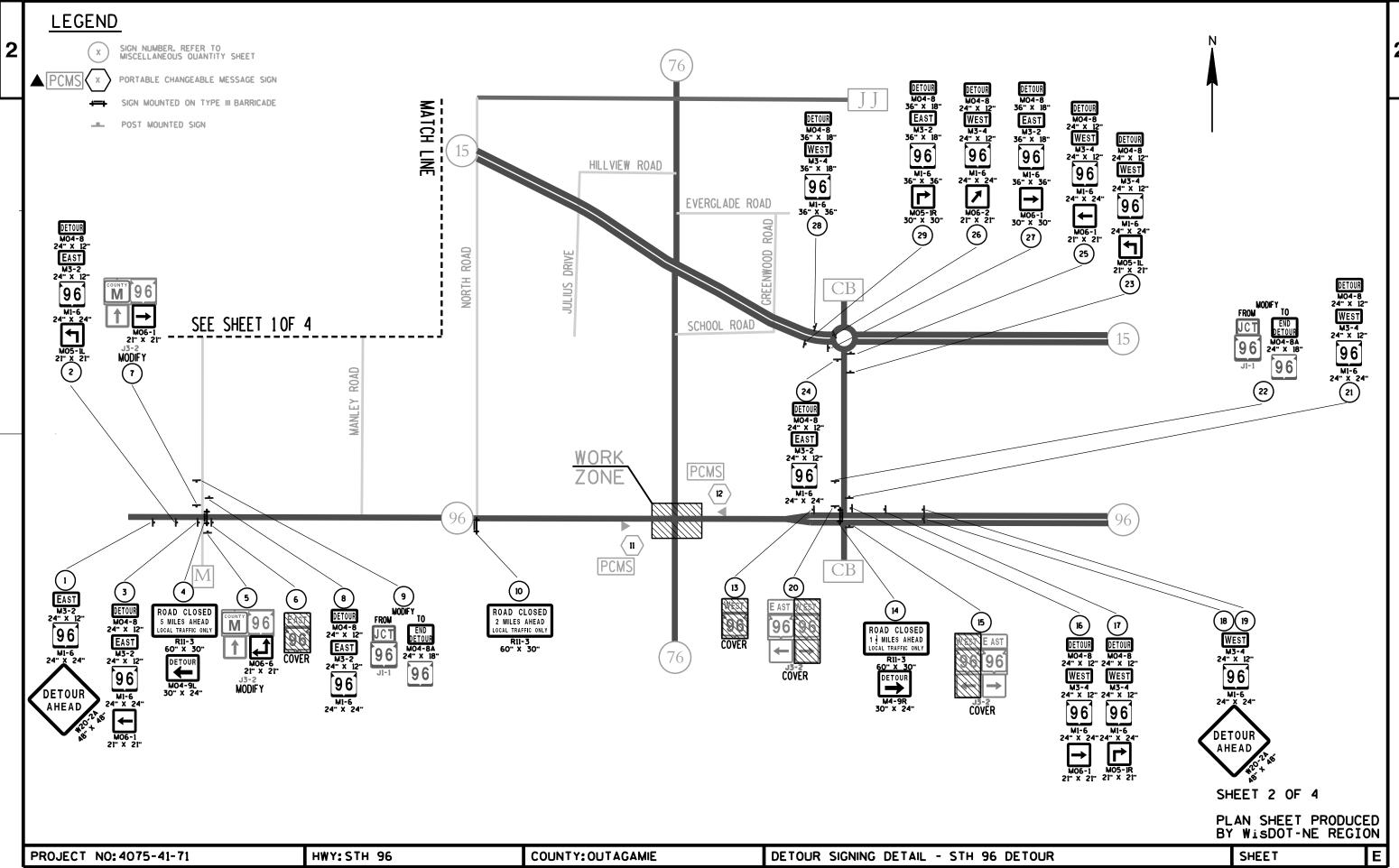
SHEET

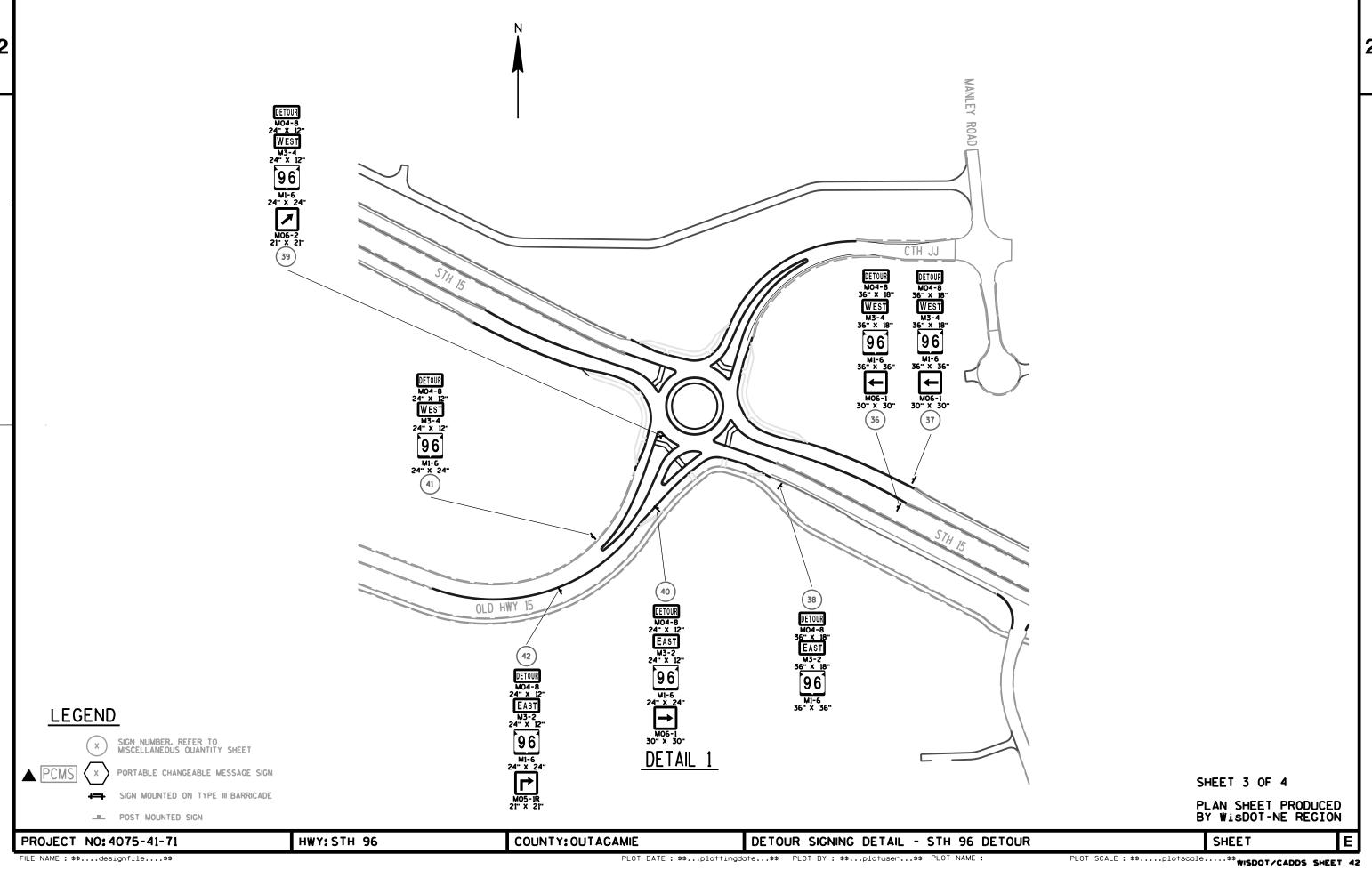
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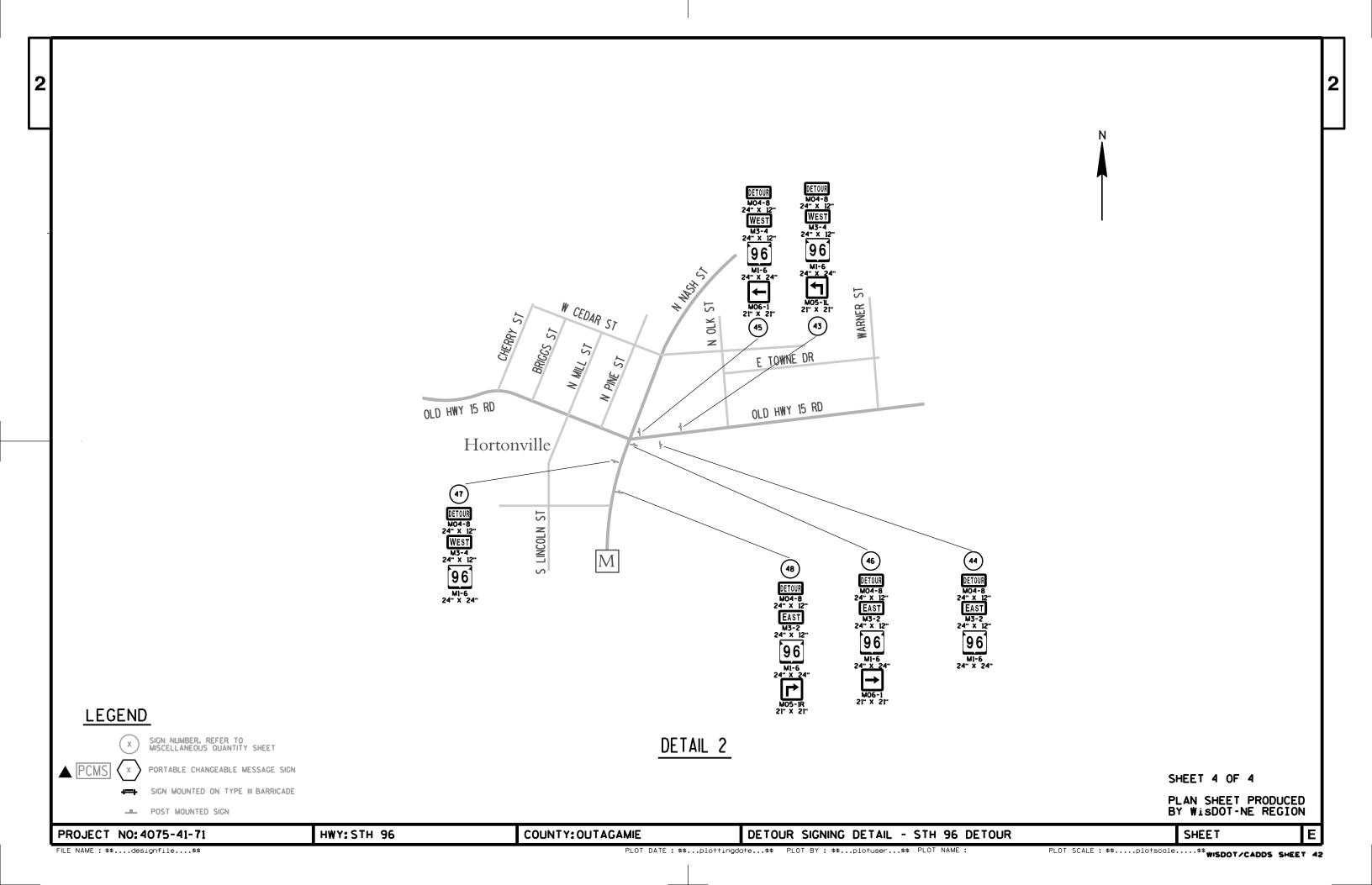












4075-41-71

					4075-41-71	
Line	Item	Item Description	Unit	Total	Qty	
0002	203.0100	Removing Small Pipe Culverts	EACH	5.000	5.000	
0004	204.0110	Removing Asphaltic Surface	SY	1,855.000	1,855.000	
0006	204.0115	Removing Asphaltic Surface Butt Joints	SY	83.000	83.000	
8000	204.0120	Removing Asphaltic Surface Milling	SY	38,280.000	38,280.000	
0010	204.0150	Removing Curb & Gutter	LF	10.000	10.000	
0012	204.0165	Removing Guardrail	LF	285.000	285.000	
0014	204.0220	Removing Inlets	EACH	1.000	1.000	
0016	204.0245	Removing Storm Sewer (size) 01. 15-Inch	LF	2.000	2.000	
0018	204.0247	Removing Ancillary Structure with Restoration (structure) 01. S-44-020	EACH	1.000	1.000	
0020	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 4075-41-71	EACH	1.000	1.000	
0022	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	3.000	3.000	
0024	213.0100	Finishing Roadway (project) 01. 4075-41-71	EACH	1.000	1.000	
0026	305.0110	Base Aggregate Dense 3/4-Inch	TON	900.000	900.000	
0028	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	510.000	510.000	
0030	390.0100	Removing Pavement for Base Patching	CY	490.000	490.000	
0032	390.0305	Base Patching Concrete HES	CY	490.000	490.000	
0034	416.0610	Drilled Tie Bars	EACH	310.000	310.000	
0036	416.0620	Drilled Dowel Bars	EACH	1,880.000	1,880.000	
0038	455.0605	Tack Coat	GAL	2,710.000	2,710.000	
0040	460.2000	Incentive Density HMA Pavement	DOL	3,700.000	3,700.000	
0042	460.6224	HMA Pavement 4 MT 58-28 S	TON	5,690.000	5,690.000	
0044	465.0110	Asphaltic Surface Patching	TON	345.000	345.000	
0046	465.0315	Asphaltic Flumes	SY	7.000	7.000	
0048	520.8000	Concrete Collars for Pipe	EACH	5.000	5.000	
0050	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	2.000	2.000	
0052	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	37.000	37.000	
0054	522.0430	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	64.000	64.000	
0056	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	4.000	4.000	
0058	531.2042	Drilling Shaft 42-Inch	LF	18.000	18.000	
0060	531.5130	Foundation Single-Shaft Type MC-III (structure) 01. S-44-0311	EACH	1.000	1.000	
0062	532.5130	Monotube Cantilever Type III (structure) 01. S-44-0311	EACH	1.000	1.000	
0064	606.0100	Riprap Light	CY	3.000	3.000	
0066	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	10.000	10.000	
0068	611.0642	Inlet Covers Type MS	EACH	1.000	1.000	
0070	611.3901	Inlets Median 1 Grate	EACH	1.000	1.000	
0072	614.0010	Barrier System Grading Shaping Finishing	EACH	2.000	2.000	
0074	614.2300	MGS Guardrail 3	LF	262.500	262.500	
0076	614.2310	MGS Guardrail 3 HS	LF	50.000	50.000	
0078	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000	
0080	618.0100	Maintenance and Repair of Haul Roads (project) 01. 4075-41-71	EACH	1.000	1.000	
0082	619.1000	Mobilization	EACH	1.000	1.000	
0084	624.0100	Water	MGAL	9.000	9.000	
0086	628.1504	Silt Fence	LF	450.000	450.000	
0088	628.1520	Silt Fence Maintenance	LF	345.000	345.000	
0090	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000	
0092	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0094	628.7005	Inlet Protection Type A	EACH	2.000	2.000	
0096	628.7015	Inlet Protection Type C	EACH	14.000	14.000	
0098	628.7504	Temporary Ditch Checks	LF	21.000	21.000	
0100	628.7555	Culvert Pipe Checks	EACH	15.000	15.000	
					. 0.000	

4075-41-71

					4075-41-71	
Line	Item	Item Description	Unit	Total	Qty	
0102	628.7570	Rock Bags	EACH	75.000	75.000	
0104	633.5200	Markers Culvert End	EACH	4.000	4.000	
0106	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	1.000	1.000	
0108	637.2210	Signs Type II Reflective H	SF	26.000	26.000	
0110	638.2602	Removing Signs Type II	EACH	1.000	1.000	
0112	638.3000	Removing Small Sign Supports	EACH	1.000	1.000	
0114	642.5001	Field Office Type B	EACH	1.000	1.000	
0116	643.0420	Traffic Control Barricades Type III	DAY	405.000	405.000	
0118	643.0705	Traffic Control Warning Lights Type A	DAY	810.000	810.000	
0120	643.0900	Traffic Control Signs	DAY	6,199.000	6,199.000	
0122	643.0920	Traffic Control Covering Signs Type II	EACH	13.000	13.000	
0124	643.1000	Traffic Control Signs Fixed Message	SF	14.000	14.000	
0126	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000	
0128	643.3165	Temporary Marking Line Paint 6-Inch	LF	71,020.000	71,020.000	
0130	643.3265	Temporary Marking Line Paint 10-Inch	LF	10,400.000	10,400.000	
0132	643.3805	Temporary Marking Stop Line Paint 18-Inch	LF	820.000	820.000	
0134	643.5000	Traffic Control	EACH	1.000	1.000	
0136	645.0130	Geotextile Type R	SY	10.000	10.000	
0138	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	31,395.000	31,395.000	
0140	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	2,600.000	2,600.000	
0142	646.5020	Marking Arrow Epoxy	EACH	6.000	6.000	
0144	646.5120	Marking Word Epoxy	EACH	2.000	2.000	
0146	646.6120	Marking Stop Line Epoxy 18-Inch	LF LF	205.000	205.000	
0148 0150	646.7120 646.8120	Marking Diagonal Epoxy 12-Inch Marking Curb Epoxy	LF	1,360.000 10.000	1,360.000 10.000	
0150	646.8220	Marking Guib Epoxy Marking Island Nose Epoxy	EACH	1.000	1.000	
0154	650.4000	Construction Staking Storm Sewer	EACH	1.000	1.000	
0154	650.6000	Construction Staking Storm Sewer Construction Staking Pipe Culverts	EACH	4.000	4.000	
0158	650.8000	Construction Staking Resurfacing Reference	LF	7,189.000	7,189.000	
0160	650.9911	Construction Staking Nesuriacing Neterlance Construction Staking Supplemental Control (project) 01. 4075-41-71	EACH	1.000	1.000	
0162	652.0210	Conduit Rigid Nonmetallic Schedule 40 1-Inch	LF	160.000	160.000	
0164	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	1,370.000	1,370.000	
0166	652.0605	Conduit Special 2-Inch	LF	175.000	175.000	
0168	652.0800	Conduit Loop Detector	LF	1,662.000	1,662.000	
0170	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	12.000	12.000	
0172	653.0905	Removing Pull Boxes	EACH	16.000	16.000	
0174	655.0700	Loop Detector Lead In Cable	LF	5,143.000	5,143.000	
0176	655.0800	Loop Detector Wire	LF	5,280.000	5,280.000	
0178	690.0150	Sawing Asphalt	LF	1,795.000	1,795.000	
0180	690.0250	Sawing Concrete	LF	3,345.000	3,345.000	
0182	740.0440	Incentive IRI Ride	DOL	11,500.000	11,500.000	
0184	SPV.0060	Special 01. Utility Line Opening	EACH	1.000	1.000	
0186	SPV.0060	Special 02. Grading, Shaping, and Finishing Culvert Pipes and Apron Endwalls	EACH	4.000	4.000	
0188	SPV.0090	Special 01. Marking Chevron Epoxy 12-Inch	LF	215.000	215.000	
0190	SPV.0090	Special 02. Sawing Curb Head	LF	50.000	50.000	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED REMOVING PIPE CULVERTS	REMOVING ASPHALTIC SURFACE	REMOVING CURB & GUTTER
203.0100 REMOVING SMALL PIPE CULVERTS	204.0110 204.0115 204.0120 REMOVING REMOVING REMOVING ASPHALTIC ASPHALTIC ASPHALTIC SURFACE SURFACE JOINTS MILLING STH 96 STH 96 S73+00 582+00 608+00 6 11,210 608+00 627+00 655 7 9,010 627+00 644+89 895 32 12,160 UNDISTRIBUTED 170 TOTAL 0010 1,855 83 38,280	204.0150 REMOVING CURB & GUTTER ROADWAY STATION TO STATION SIDE LF STH 96 579+51 - 579+61 RT 10 TOTAL 0010 10
REMOVING GUARDRAIL	REMOVING INLET	REMOVING STORM SEWER
204.0165 REMOVING GUARDRAIL ROADWAY STATION TO STATION SIDE LF STH 96 577+61 - 579+03 RT 143 583+89 - 585+30 LT 142 TOTAL 0010 285	204.0220 REMOVING INLETS ROADWAY STATION OFFSET EACH STH 96 586+30 38'LT 1 TOTAL 0010 1	204.0245.01 REMOVING STORM SEWER (SIZE) (01.15-INCH) ROADWAY STATION TO STATION SIDE LF STH 96 586+28 - 586+29 LT 2 TOTAL 0010 2
REMOVING ANCILLARY STRUCTURE 204.0247.01 REMOVING ANCILLARY STRUCTURE WITH RESTORATION (STRUCTURE) (01. S-44-020) ROADWAY STATION OFFSET EACH STH 96 584+36 28'LT 1 TOTAL 0010 1	BASE AGGREGATE ITEMS 305.012 624.0100	BASE PATCHING ITEMS 390.0100 390.0305 REMOVING PAVEMENT FOR BASE PATCHING BASE PATCHING CONCRETE HES CONCRETE HE
PROJECT NO: 4075-41-71 HWY: STH 96	COUNTY: OUTAGAMIE MISCELLANEOUS QUANTIT	TIES SHEET: E

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	ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED DRILLED BARS	582+00 - 60 608+00 - 62 627+00 - 64	211.0400 PREPARE FOUNDA ASPHALTIC SHO	TION FOR TACK HMA ULDERS COAT 4 N GAL 425 805 635	60.6224 465.011 A PAVEMENT ASPHALTIC SU AT 58-28 S PATCHIN TON TON 890 45 1,690 1,330 120 1,780 145	IRFACE		ROADWAY STATI STH 96	ION SIDE	465.0315 ASPHALTIC FLUMES SY 7 7	
	608+00 - 627+00 627+00 50 627+00 - 644+89 10 50 TOTAL 0010 310 1,880	UNDISTRIBUTED	AL 0010 3	2,710	5,690 345	_					
	INLET ROADWAY STATION OFFSET ELEV STH 96 -	DISCHARGE STATION OFFSET ELEV 586+87.5 44.6'LT 913.12	* 520.8000 CONCRETE F	S21.1018 521.3118 APRON ENDWALLS CULVERT PIPEOR CULVERT CORRUGATED PIPE STEEL STEEL 18-INCH 18-INCH EACH LF	API CULVERT PIPE ENDWA E REINFORCED CULVE CONCRETE REINF CLASS IV 30- INCH 30-		650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	JOIN TIES** EACH	MINIMUM STEEL PIPE THICKNESS IN		
	615+58.5 30.9'LT 895.18 615+65.5 31.1'LT 895.32 615+75.0 17.2'RT 894.97	615+63.7 15.8'LT 895.11 615+70.6 15.9'LT 895.22 615+80.2 32.3'RT 894.90	0.0041 1 0.0067 1 0.0041 1	 	16 16 16	1 1 1 1 1 1	1 1 1	6 6			
	615+81.5 16.7'RT 894.99	615+86.6 31.9'RT 894.88 TOTAL 0010	0.0067 1	2 37	16 16 64	1 1 1 4 4	1 4	6 24			I
-	* ADDITIONAL QUANTITIES SHOWN ELSEWHE **NON-BID ITEM: FOR INFORMATION ONLY. L STORM SEWER F	AST SET OF JOINT TIES TO BE DRILLED INTO E	EXISTING PIPE. DRILLING IS II	NCIDENTAL TO CULVERT PIP	E REINFORCED CONCRETE I	TEM STORM SEWER:	<u>STRUCTURES</u>				
	608.0318 STORM SEWER PIP REINFORCED CONCRETE CLASS II 18-INCH FROM - TO LF 1 - EXIST 9.2 TOTAL 0010 10			1 586+34.2 EXISTINLET 586+28.1 EMARKS	RIM OFFSET* ELEVATION 41.9'LT 912.62 35.0'LT	INVERT DEPT ELEVATION FT 909.68 2.9 TOTAL	EACH 04 - 1		611.3901 5 INLETS MEDIAN 1 GRATE EACH 1 1	650.4000 CONSTRUCTION STAKING STORM SEWER EACH 1 1	
	PROJECT NO: 4075-41-71 HWY: STH 96	cou	*:	STATIONS AND OFFSETS ARE * DEPTH = RIM ELEV - INVER* ** ADDITIONAL QUANTITIES M	ELEV					SHEET:	E

L ITEMS ARE CATEGORY 0010 NI ESS OTHERWISE NOTED																
NEESS OTHERWISE NOTED							<u>Gl</u>	JARDRAIL ITEMS								
	ROADWAY	STATIO	ON TO ST	TATION SIDE	BARRIER SYST GRADING SHA FINISHING	TEM PING MGS G GUARDRAIL	3 HS	TERMINAL EAT	* EXCAVATION COMMON	* BORROW	SALVAGED FERT	SEEDING TILIZER MIXTURE PE B NO. 30	URBAN CLASS I TYPE B	* SEED WATER MGAI		
		STATIO	лч 10 31.	ATION SIDE	EACH	LF	LF	EACH	Ct	Cī	31 C	VVI LD	31	MGAL		
	STH 96				1 1	87.5 175	50	2 2	85 170	10			415 540	10 13		
	* FOR INFOR	RMATION C	ONLY	TOTAL 00	10 2	262.5	50	4	255	10	955 ().7 18	955	23		
							<u>EROSI</u>	ON CONTROL ITE	<u>MS</u>							
				606.0100	628.1504	628.1520	628.1905	628.1910	628.7005	628.7015	628.7504	628.7555	628.7570	645.0130		
				RIPRAP LIGHT	SILT FENCE	SILT FENCE		MOBILIZATIONS EMERGENCY EROSION CONTROL	INLET PROTECTION TYPE A	INLET PROTECTION TYPE C	TEMPORARY DITCH CHECKS	CULVERT PIPE CHECKS	ROCK BAGS	GEOTEXTILE TYPE R		
		N TO S	STATION	СҮ	LF	LF	EACH	EACH	EACH	EACH	LF	EACH	EACH	SY		
	575+5			2	310 50	235 40			 1	 5	16	 2	45 15	8		
										6		10				
	UNDISTRIBUTED			1	90	70	4	3	1	3	5	3	15	2		
		ТО	OTAL 0010	3	450	345	4	3	2	14	21	15	75	10		
							PERMANENT	SIGNS AND SIGN	<u>REMOVALS</u>							
						X H POSTS	WOOD		REN	MOVING						
			SIG			IN EA					ES		_			
			:	1 R3-5L 2 R3-6R 3 R3-8LF	2S 42	X 48	-	14	 1	TO E	E MOUNTED ON S-4 E INSTALLED ONLY I	4-0311 F 1 AND 2 NOT				
					ТО	TAL 0010 1		26	1	1			_			
ROJECT NO: 4075-41-71		HWY:	: STH 96	 S		COUNTY: OU	TAGAMIE		MISCELL	ANEOUS C	UANTITIES	<u> </u>			SHEET:	E
	NLESS OTHERWISE NOTED	ROADWAY STH 96 * FOR INFOR STH 96 STH 96 UNDISTRIBUTED	ROADWAY STATION STH 96	ROADWAY STATION TO STATION TO STATION STH96 S75+58 - 55 583+79 - 58 583+79 - 58 583+50 S81+50 -	ROADWAY STATION TO STATION SIDE	ROADWAY STATION TO STATION SIDE FACH	BOADWAY STATION TO STATION SIDE STATION SIDE STATION STATI	BOADWAY STATION TO STATION SIDE SALES STEPANCE STATION STATION	STATE STAT	SECOND S	STATION TO STAT	NUMBER OF PROPERTY OF THE PROP	NUMBER PROPERTY PROPERTY	Property Property	Section Property Property	March Marc

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	** * * * *	TEMPORARY PAVEMENT MARKING						
FIELD OFFICE	643.0420 643.0705 643.0900 TRAFFIC TRAFFIC CONTROL CONTROL TRAFFIC			643.3165	643.3265	643.3805		
	ESTIMATED BARRICADES WARNING CONTROL CALENDAR DAYS TYPE III LIGHTS TYPE A SIGNS			TEMPORARY		TEMPORARY MARKING STOP LINE		
642.5001	ROADWAY STAGE EACH DAY EACH DAY EACH DAY				PAINT 10-INCH	PAINT 18-INCH		
FIELD OFFICE	12 FULL CLOSURE 20 240 40 480 21 252			YELLOW	WHITE	WHITE		
TYPE B LOCATION EACH	12 TOLL CLOSONE 20 240 40 400 21 232	ROADWAY STATION TO	STATION	LF	LF	LF		
4075-41-71 1	49 DURING CONSTRUCTION 14 686	STH 96						
TOTAL 0010 1		573+00 -	582+00	12,820	3,600	820		
		582+00 -	608+00	24,820	2,600			
	UNDISTRIBUTED 25 50 95	608+00 - 627+00 -	627+00 644+89	18,240 15,140	2,460 1,740			
		627+00 -	TOTAL 0010	71,020	10,400	820		
	TOTAL 0010 265 530 1033		TOTALOUIO	71,020	10,400	020		
	* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ** FOR INFORMATION ONLY							

PAVEMENT MARKING ITEMS

			646	.2040	646.4040	646.5020	646.5120	646.6120	646	.7120	646.8120	646.8220	SPV.0090.01
													SPECIAL (01.
					MARKING LINE	MARKING	MARKING		MAI	RKING		MARKING	MARKING
			MARKING LINE	E GROOVED WET	GROOVED WET REF	ARROW	WORD	MARKING STOP LINE	DIA	GONAL	MARKING CURB	ISLAND NOSE	CHEVRON
			REF EPO	XY6-INCH	EPOXY 10-INCH	EPOXY	EPOXY	EPOXY 18-INCH	EPOXY	12-INCH	EPOXY	EPOXY	EPOXY 12-INCH)
			WHITE	YELLOW	WHITE	TYPE 2	TYPE 2	WHITE	WHITE	YELLOW	YELLOW	YELLOW	WHITE
ROADWAY	STATION TO	STATION	LF	LF	LF	EACH	EACH	LF	LF	LF	LF	EACH	LF
													_
STH 96													
	573+00	582+00	1,400	3,205	900	5	2	205		240			150
	582+00	608+00	4,995	6,205	650	1			160	265			65
	608+00	627+00	3,710	4,560	615					125			
	627+00	644+89	3,535	3,785	435					570	10	1	
			13,640	17,755	2,600	6	2	205	160	1,200	10	1	215
		TOTAL 0010	31	,395	2,600	6	2	205	1,	360	10	1	215

PROJECT NO: 4075-41-71 HWY: STH 96 COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET: **E**

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	ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED		
	STAKING ITEMS		
3	650.8000 650.9911.01 CONSTRUCTION CONSTRUCTION STAKING STAKING SUPPLEMENTAL RESURFACING CONTROL (PROJECT) REFERENCE (01.4075-41-71) ROADWAY STATION TO STATION LF EACH	SAWING ITEMS 690.0150 690.0250 SPV.0090.02 SAWING SAWING SPECIAL (02. SAWING ASPHALT CONCRETE CURB HEAD) ROADWAY STATION TO STATION LF LF LF	<u>UTILITY LINE OPENING</u>
	STH 96 573+00 - 582+00 900 582+00 - 608+00 2,600 608+00 - 627+00 1,900 627+00 - 644+89 1,789 PROJECTWIDE 1	STH 96 STATION LF LF LF 573+00 - 582+00 270 1,635 20 582+00 - 608+00 1,625 30 608+00 - 627+00 410 627+00 - 644+89 1,115 85 TOTAL 0010 1,795 3,345 50	SPV.0060.01 SPECIAL (01. UTILITY LINE OPENING) PROJECT EACH 4075-41-71 1 TOTAL 0010 1
	TOTAL 0010 7,189 1		
		GRADING. SHAPING. AND FINISHING CULVERT PIPES AND APRON ENDWALLS SPV.0060.02 * * * * * * SPECIAL (02. GRADING.	

					SPV.0060.02	*	*	*	*	*
					SPECIAL (02.					
					GRADING,					
					SHAPING, AND				EROSION	
					FINISHING				MAT	
					CULVERT PIPES			SEEDING	URBAN	
					AND APRON	SALVAGED	FERTILIZER	MIXTURE	CLASS I	SEED
					ENDWALLS)	TOPSOIL	TYPEB	NO. 30	TYPE B	WATER
ROADWAY	STATION	TO	STATION	SIDE	EACH	SY	CWT	LB	SY	MGAL
STH 96										
	615+50	-	616+00	LT/RT	4	70	0.1	2	70	3
				TOTAL 0010	4	70	0.1	2	70	3

^{*} FOR INFORMATION ONLY

PROJECT NO: 4075-41-71 HWY: STH 96 COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET: **E**

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ſ	ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED			<u>CONDUIT ITEM</u>	<u>s</u>						
					652.0210 CONDUIT RIGID NONMET		652.0605 CONDUIT				
		LOCATION	FROM	ТО	SCHEDULE 40 1-INCI LF	H INCH LF	SPECIAL 2-INCH LF				
											
3		STH 96 & 76 (S44-001	8) PB2	PB3		20					
			PB2	PB13		170					
			PB13	WEST SIDE OF DRIVEWAY EAST SIDE OF DRIVEWAYS		155					
			EAST SIDE OF DRIVEWAYS	PB14		 100	115 				
			PB5	PB15		25					
			PB5 PB16	PB16 NORTH SIDE OF DRIVEWAY		210 20					
				SOUTH SIDE OF DRIVEWAY			 60				
			SOUTH SIDE OF DRIVEWAY	PB17		80	<u></u>				
			PB18 PB19	PB19 PB20	 160	200					
			PB19 PB10	PB20 PB11	160	30					
			PB11	PB21		200					
			PB21	PB22 TOTAL 0010	160	160 1,370	 175				
				1011120010	100	2,576	17.0				
		PULL BOXES 653.0164 653.0 PULL BOXES NON- CONDUCTIVE REMO 24X42-INCH PULL B	/ING OXES			LOCATION STH 96 & 76 (S44-00)	LOOP NO. 18) 11 21 22 23	#OF TURNS 3 5 4	652.0800 6 CONDUIT I LOOP DETECTOR LF 152 72 82 122	LOOP DETECTOR LEAD IN D	LOOP DETECTOR
	STH	196 & 76 (S44-0018) 12 16 TOTAL 0010 12 16					31 41 42 43 51	3 3 3 3 3 3	132 62 62 122 162	73 658 498 298 188	194 194 374 494
							61 62	3	92	558 398	336 284
							63	2	122	188	252
							71	4	142	298	576
							81 82	4	72 72	378 223	296 224
							83	2	112	53	232
								TOTAL 0010	1,662		5,280
}	PROJECT NO: 4075-41-71	HWY: STH 96	cc	OUNTY: OUTAGAMIE		MISCELLANEOUS (QUANTITIES				SHEET:

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						643.0900	643.0420	643.0705	643.1050		643.0920	
					APPROX.	SIGNS	BARRICADES	WARNING	SIGNS		COVERING	
				NUMBER	SERVICE	310.13	TYPE III	LIGHTS	PORTABLE		SIGNS	
				IN	PERIOD		'''	TYPE A	CHANGEABLE	NO OF	TYPE II	
SIGN		SIGN	SIZE	SERVICE	26			11112 A	MESSAGE	CYCLES	''''	
NO.	LOCATION	CODE	WXH	JERVICE	DAYS	DAYS	DAYS	DAYS	DAYS	CICLLS	EACH	REMARKS
1	STH 15, W. OF STH 76, PLACE 1000' W. OF STH 76 IN MEDIAN	M 3-3	24"X12"	1	26	26	DATS	DATS	DATS		LACII	KEMAKKS
	II	M 1-6	24"x24"	1	26	26						76
	11	W 20-2A	48"x48"	1	26	26						7.0
2	STH 15, W. OF STH 76, PLACE 1000' W. OF STH 76 ON RIGHT SHOULDER	M 3-3	24"x12"	1	26	26					1	
	II	M 1-6	24"x24"	1	26	26						76
	11	W 20-2A	48"x48"	1	26	26						,,,
3	STH 15, W. OF STH 76, PLACE ACROSS FROM SIGN #4 IN MEDIAN	MO 4-8	24"x12"	1	26	26					1	
	II	M 3-3	24"X12"	1	26	26					 	
	II .	M 1-6	24"X24"	1	26	26					+	76
	П	MO 6-1	21"X21"	1	26	26					 	AHEAD
4	STH 15, W. OF STH 76, MODIFY EXISTING J2-3 SIGN AS SHOWN	MO 4-8	24"X12"	1	26	26						AILAD
т	III 13, W. OI SIII 70, MUULII EATSIING JE-3 SIGN AS SHOWN	MO 4-8 MO 6-1	21"X21"	1	26	26						AHEAD
5	STH 15, W. OF STH 76, COVER EXISTING D1-3 SIGN AS SHOWN	140 0-1	<u> </u>	+	20	20				1	1	COVER "OSHKOSH RIGHT"
6	STH 15, W. OF STH 76, COVER EXISTING DI-3 SIGN AS SHOWN STH 15, W. OF STH 76, MODIFY EXISTING J3-2 SIGN AS SHOWN	MO 4-8	24"x12"	1	26	26					+ +	COAFIC ONINONI KIRILI
0	III 13, W. OF SIII 70, MODIFI EAISIING 33-2 SIGN AS SHOWN	MO 4-8 MO 6-1	21"X21"	1	26	26			 		+	AHEAD
7	STH 15, W. OF STH 76, PLACE ACROSS FROM SIGN #6 IN MEDIAN	MO 4-8	24"X12"	1	26	26					+	AITEAD
	SIR 13, W. OF SIR 70, PLACE ACROSS FROM SIGN #0 IN MEDIAN	M 3-3	24"X12"	1	26	26					+	
	II .	M 1-6	24"X24"	1	26	26					+	76
	II .	MO 6-1	21"X21"	1	26	26						AHEAD
8	STH 76, AT STH 15, PLACE RIGHT OF EXISTING SIGNAL AT STH 15 INTERSECTION	MO 4-8	24"X12"	1	26	26						AREAD
0	SIR 70, AT SIR 13, PLACE RIGHT OF EXISTING SIGNAL AT SIR 13 INTERSECTION	M 3-3	24"X12"	1	26	26					 	
	II .	M 1-6	24"X24"	1	26	26					+	76
	п	MO 6-1	21"X21"	1	26	26					+	70 RIGHT
9	STH 76, N. OF STH 15, PLACE 500' N. OF STH 15 INTERSECTION	MO 4-8	24"X12"	1	26	26					+	RIGHT
9	SIH 70, N. OF SIH 13, PLACE 300 N. OF SIH 13 INTERSECTION	MU 4-8 M 3-3	24"X12"	1	26	26					+	
	n	M 1-6	24 X12 24"X24"	1	26	26					+	76
	п	MO 5-1L	21"X21"	1	26	26					+	78
10	STH 76, N. OF STH 15, PLACE 1000' N. OF STH 15 INTERSECTION	W 20-2A	48"X48"	1	26	26					+	
11	STH 76, N. OF STH 13, PLACE 1000 N. OF STH 13 INTERSECTION STH 76, AT STH 15, PLACE IN SW QUADRANT AT STH 15 INTERSECTION	R 11-3	60"x30"	1	26	26	26	52			+	1 3/4 MILES AHEAD
11	SIH 70, AI SIH I3, PLACE IN SW QUADRANI AI SIH I3 INTERSECTION		30"x24"	1		26	20	32			+	1 3/4 MILES AHEAD
12	STH 76. S. OF STH 15. COVER EXISTING J4-1 SIGN AS SHOWN	M 4-9L	3U XZ4	+	26	20			+	1	1	COVED ENTIRE STON
13	STH 76, S. OF STH 15, COVER EXISTING J4-1 SIGN AS SHOWN STH 15, AT STH 76, COVER EXISTING J3-2 SIGN AS SHOWN			1					1	<u>1</u> 1	1 1	COVER ENTIRE SIGN COVER "SOUTH 76 LEFT"
14	STH 15, AT STH 76, COVER EXISTING J5-2 SIGN AS SHOWN STH 15, E. OF STH 76, PLACE RIGHT OF EXISTING J4-1 SIGN	MO 4-8	24"x12"	1	26	26	 			тт	+ +	COVER SOUTH /O LEFT
14	SIR 15, E. OF SIR 76, PLACE RIGHT OF EXISTING J4-1 SIGN	MO 4-8 M 3-3	24 X12 24"X12"	1	26	26	 		1		 	
	n	M 1-6	24"X24"	1	26	26					 	76
15	STH 15, E. OF STH 76, COVER EXISTING D1-3 SIGN AS SHOWN	IAI T-Q	24 X24	+ -	20	20	 		1	1	1 1	COVER "LEFT OSHKOSH"
16	STH 15, E. OF STH 76, COVER EXISTING DI-3 SIGN AS SHOWN STH 15, E. OF STH 76, MODIFY EXISTING J1-1 SIGN AS SHOWN	MO 4-8A	24"x18"	1	26	26			1	1	1	COVER LEFT USHKUSH
17	STH 15, E. OF STH 76, MODIFY EXISTING J1-1 SIGN AS SHOWN STH 15, W. OF CTH CB, PLACE 500' W. OF CTH CB INTERSECTION		24 X18 24"X12"	1	26	26			1		+	
1/	SIR IJ, W. OF CIR CD, PLACE JUU W. OF CIR CB INTERSECTION	MO 4-8 M 3-3	24 X12 24"X12"	1	26	26			1		 	
	п		24"X12"		26	26					 	76
-	п	M 1-6	24"X24" 21"X21"	1		26					+	70
10	CTU 15 W OF CTU CD DIACE DIGHT OF EVICTING 34 1 CTCV	MO 5-1R		1	26	26 26					 	
18	STH 15, W. OF CTH CB, PLACE RIGHT OF EXISTING J4-1 SIGN	MO 4-8	24"X12" 24"X12"	1	26	26					+	
	"	M 3-1		1	26						 	
	PAGE SUBTOTALS	м 1-6	24"x24"	40	26	26 1,040	<u> </u> 26	52	0		4	

PLAN SHEET PRODUCED BY WisDOT - NE REGION

SIGN		SIGN	SIZE	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 26	643.0900 SIGNS	643.0420 BARRICADES TYPE III	643.0705 WARNING LIGHTS TYPE A	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE	NO OF CYCLES	643.0920 COVERING SIGNS TYPE II	
NO.	LOCATION	CODE	W X H		DAYS	DAYS	DAYS	DAYS	DAYS	0.000	EACH	REMARKS
19	STH 15, AT CTH CB, PLACE RIGHT OF EXISTING R1-2 AT CTH CB INTERSECTION	MO 4-8	24"x12"	1	26	26						
	II .	м 3-3	24"x12"	1	26	26						
	п	м 1-6	24"x24"	1	26	26						76
i	П	MO 6-1	21"x21"	1	26	26						RIGHT
20	STH 15, AT CTH CB, PLACE ABOVE EXISTING SPLITTER ISLAND SIGN AT WEST LEG EXIT	MO 4-8	24"x12"	1	26	26						
	II .	м 3-1	24"x12"	1	26	26						
	11	м 1-6	24"x24"	1	26	26						76
	11	MO 6-2	21"x21"	1	26	26						TILT RIGHT
21	CTH CB, AT STH 15, PLACE RIGHT OF EXISTING R1-2 AT STH 15 INTERSECTION	MO 4-8	24"x12"	1	26	26						
	п	м 3-1	24"x12"	1	26	26						
	П	м 1-6	24"x24"	1	26	26						76
	п	MO 6-1	21"x21"	1	26	26						LEFT
22	CTH CB, S. OF STH 15, PLACE RIGHT OF EXISTING J4-1 SIGN	MO 4-8	24"x12"	1	26	26						
	II .	м 3-3	24"x12"	1	26	26						
	11	м 1-6	24"x24"	1	26	26						76
23	CTH CB, S. OF STH 15, PLACE 500' S. OF STH 15 INTERSECTION	MO 4-8	24"x12"	1	26	26						
	11	м 3-1	24"x12"	1	26	26						
	11	м 1-6	24"x24"	1	26	26						76
	11	MO 5-1L	21"x21"	1	26	26						
24	CTH CB, N. OF STH 96, PLACE 250' N. OF STH 96 INTERSECTION	MO 4-8	24"x12"	1	26	26						
	11	м 3-3	24"X12"	1	26	26						
	II .	м 1-6	24"x24"	1	26	26						76
	11	MO 6-1	21"x21"	1	26	26						AHEAD
25	CTH CB, S. OF STH 96, PLACE 250' S. OF STH 96 INTERSECTION	MO 4-8	24"X12"	1	26	26						
	п	м 3-1	24"X12"	1	26	26						
	II .	м 1-6	24"x24"	1	26	26						76
	II	MO 6-1	21"X21"	1	26	26						AHEAD
26	STH 76, N. OF STH 96, PLACE ON RIGHT SHOULDER, FIELD DETERMINE LOCATION	PCMS		1					7			PLACE IN ADVANCE OF CLOSURE
27	STH 76, S. OF STH 96, PLACE ON RIGHT SHOULDER, FIELD DETERMINE LOCATION	PCMS		1					7			PLACE IN ADVANCE OF CLOSURE
28	STH 76, AT CTH BB, PLACE IN NE QUADRANT OF INTERSECTION ON RIGHT SHOULDER	R 11-3	60"x30"	1	26	26	26	52				2 MILES AHEAD
29	CTH CB, N. OF CTH BB, PLACE 250' N. OF CTH BB INTERSECTION	MO 4-8	24"x12"	1	26	26						
	II .	м 3-3	24"x12"	1	26	26						
	n -	м 1-6	24"x24"	1	26	26						76
	п	MO 6-1	21"X21"	1	26	26						AHEAD
30	CTH CB, S. OF CTH BB, PLACE 250' S. OF CTH BB INTERSECTION	MO 4-8	24"X12"	1	26	26						
	II .	M 3-1	24"X12"	1	26	26						
		м 1-6	24"x24"	1	26	26						76
	II .	MO 6-1	21"X21"	1	26	26						AHEAD
31	CTH CB, N. OF US 10, PLACE 500' N. OF US 10 INTERSECTION	MO 4-8	24"X12"	1	26	26	ļ		ļ		ļ	
	ıı .	м 3-3	24"X12"	1	26	26			ļ		ļ	
	n .	м 1-6	24"X24"	1	26	26						76
	II .	MO 5-1R	21"X21"	1	26	26						
32	CTH CB, S. OF AMERICAN DR, PLACE 250' S. OF AMERICAN DR INTERSECTION	MO 4-8	24"X12"	1	26	26	ļ		ļ		ļ	
	"	M 3-1	24"X12"	1	26	26					ļ	
	"	м 1-6	24"X24" 21"X21"	1	26 26	26 26						76
' ——	п	MO 6-1		1 1								AHEAD

PLAN SHEET PRODUCED BY WisDOT - NE REGION

						643.0900	643.0420	643.0705	643.1050		643.0920	
					APPROX.		BARRICADES	WARNING	SIGNS		COVERING	
				NUMBER	SERVICE		TYPE III	LIGHTS	PORTABLE		SIGNS	
				IN	PERIOD			TYPE A	CHANGEABLE	NO OF	TYPE II	
SIGN		SIGN	SIZE	SERVICE	26				MESSAGE	CYCLES		
NO.	LOCATION	CODE	WXH		DAYS	DAYS	DAYS	DAYS	DAYS		EACH	REMARKS
33	CTH CB, AT US 10, PLACE RIGHT OF EXISTING J3-2 SIGN AT US 10 INTERSECTION	MO 4-8	24"X12"	1	26	26						
	II	м 3-3	24"X12"	1	26	26						
	"	м 1-6	24"x24"	1	26	26						76
	"	MO 6-1	21"X21"	1	26	26						RIGHT
33A	US 10 OFF-RAMP TO CTH CB, PLACE RIGHT OF EXISTING R5-1 SIGN AT RAMP INTERSECTION	MO 4-8	24"X12"	1	26	26						
	"	м 3-1	24"X12"	1	26	26						
	n	м 1-6	24"x24"	1	26	26						76
	п	MO 6-1	21"x21"	1	26	26						LEFT
34A	US 10 OFF-RAMP TO CTH CB, PLACE 500' PRIOR TO RAMP INTERSECTION	MO 4-8	24"x12"	1	26	26						
	n n	м 3-1	24"X12"	1	26	26						
	II .	м 1-6	24"x24"	1	26	26						76
	П	MO 5-1L	21"X21"	1	26	26						
34	US 10, AT CTH CB OFF-RAMP, PLACE LEFT OF EXISTING TYPE I GROUND MOUNT SIGN	MO 4-8	36"x18"	1	26	26						
	ı ıı	м 3-1	36"x18"	1	26	26						
	II .	м 1-6	36"x36"	1	26	26						76
	II .	MO 6-2	30"x30"	1	26	26						TILT RIGHT
35	US 10, W. OF CTH CB OFF-RAMP, PLACE 750' W. OF CTH CB OFF-RAMP	MO 4-8	36"x18"	1	26	26						
	"	м 3-1	36"x18"	1	26	26						
	n	м 1-6	36"x36"	1	26	26						76
	n	MO 5-2R	30"x30"	1	26	26						
36	US 10, E. OF STH 76, PLACE RIGHT OF EXISTING J4-1 SIGN	MO 4-8	36"x18"	1	26	26						
	ıı ıı	м 3-1	36"x18"	1	26	26						
	II .	м 1-6	36"x36"	1	26	26						76
37	US 10, AT STH 76 OFF-RAMP, PLACE LEFT OF EXISTING TYPE I GROUND MOUNT SIGN	M 4-8A	30"x24"	1	26	26						
	II .	м 1-6	36"x36"	1	26	26						76
38	US 10 OFF-RAMP TO STH 76, COVER EXISTING D1-3 SIGN AS SHOWN									1	1	COVER "SHIOCTON RIGHT"
39	US 10 OFF-RAMP TO STH 76, COVER EXISTING J3-2 SIGN AS SHOWN									1	1	COVER "NORTH 76 RIGHT"
40	STH 76, AT US 10 WB RAMP INTERSECTION, PLACE IN NE QUADRANT OF INTERSECTION	R 11-3	60"x30"	1	26	26	26	52			1	3 3/4 MILES AHEAD
	PAGE SUBTOTALS	-		26		676	26	52	0		2	,

PLAN SHEET PRODUCED BY WisDOT - NE REGION

				NUMBER IN	APPROX. SERVICE PERIOD	643.0900 SIGNS	643.0420 BARRICADES TYPE III	643.0705 WARNING LIGHTS TYPE A	643.1050 SIGNS PORTABLE CHANGEABLE	NO OF	643.0920 COVERING SIGNS TYPE II	
SIGN		SIGN	SIZE	SERVICE	26				MESSAGE	CYCLES		
NO.	LOCATION	CODE	WXH		DAYS	DAYS	DAYS	DAYS	DAYS		EACH	REMARKS
41	STH 76, N. OF US 10, COVER EXISTING J4-1 SIGN AS SHOWN									1	1	COVER ENTIRE SIGN
42	STH 76, BETWEEN US 10 RAMP INTERSECTIONS, COVER EXISTING J3-2 SIGN AS SHOWN									1	1	COVER "NORTH 76 AHEAD"
43	STH 76, AT US 10 EB RAMP INTERSECTION, PLACE IN NE QUADRANT OF INTERSECTION ON RIGHT SHOULDER	R 11-3	60"x30"	1	26	26	26	52				4 MILES AHEAD
	"	M 4-9R	30"x24"	1	26	26						
44	STH 76, AT US 10 EB RAMP INTERSECTION, PLACE RIGHT OF EXISTING J3-1 SIGN	MO 4-8	24"x12"	1	26	26						
	"	м 3-1	24"x12"	1	26	26						
	"	м 1-6	24"x24"	1	26	26						76
	II .	MO 6-1	21"x21"	1	26	26						RIGHT
45	STH 76, S. OF US 10, PLACE 500' S. OF US 10 EB RAMP INTERSECTION	MO 4-8	24"x12"	1	26	26						
	п	м 3-1	24"x12"	1	26	26						
	п	м 1-6	24"x24"	1	26	26						76
	п	MO 5-1R	21"x21"	1	26	26						
46	STH 76, S. OF US 10, PLACE 1000' S. OF US 10 EB RAMP INTERSECTION	W 20-2A	48"x48"	1	26	26						
47	US 10 OFF-RAMP TO STH 76, COVER EXISTING J3-2 SIGN AS SHOWN									1	1	COVER "NORTH 76 LEFT"
48	US 10 OFF-RAMP TO STH 76, COVER EXISTING D1-2 SIGN AS SHOWN									1	1	COVER "LEFT SHIOCTON"
49	US 10, W. OF STH 76, PLACE 750' W. OF STH 76 IN MEDIAN	MO 4-8	36"x18"	1	26	26						
	"	м 3-1	36"x18"	1	26	26						
	II .	м 1-6	36"x36"	1	26	26						76
	II .	MO 6-1	30"x30"	1	26	26						AHEAD
50	US 10, W. OF STH 76, PLACE 750' W. OF STH 76 ON RIGHT SHOULDER	MO 4-8	36"x18"	1	26	26						
	"	м 3-1	36"x18"	1	26	26						
	"	м 1-6	36"x36"	1	26	26						76
	"	MO 6-1	30"x30"	1	26	26						AHEAD
51	US 10, W. OF STH 76, PLACE 1500' W. OF STH 76 IN MEDIAN	м 3-1	36"x18"	1	26	26						
	"	м 1-6	36"x36"	1	26	26						76
	"	W 20-2A	48"x48"	1	26	26						
52	US 10, W. OF STH 76, PLACE 1500' W. OF STH 76 ON RIGHT SHOULDER	м 3-1	36"x18"	1	26	26						
	"	м 1-6	36"x36"	1	26	26						76
	II .	W 20-2A	48"x48"	1	26	26						
	PAGE SUBTOTALS			25		650	26	52	0		4	

STH 76 DETOUR TOTALS 137 3,510 104 208 14 10

PLAN SHEET PRODUCED BY WisDOT - NE REGION

		1		1	1								T
						643.0900	643.0420	643.0705	643.1000	643.1050		643.0920	
					APPROX.	SIGNS	BARRICADES	WARNING	SIGNS	SIGNS		COVERING	
				NUMBER	SERVICE		TYPE III	LIGHTS	FIXED	PORTABLE		SIGNS	
				IN	PERIOD			TYPE A	MESSAGE	CHANGEABLE	NO OF	TYPE II	
SIGN		SIGN	SIZE	SERVICE	12					MESSAGE	CYCLES		
NO.	LOCATION	CODE	WXH		DAYS	DAYS	DAYS	DAYS	SF	DAYS		EACH	REMARKS
1	STH 96, W. OF CTH M, PLACE 1000' W. OF CTH M INTERSECTION	м 3-2	24"x12"	1	12	12							
	n n	м 1-6	24"x24"	1	12	12							96
	II .	w 20-2A	48"x48"	1	12	12							
2	STH 96, W. OF CTH M, PLACE 500' W. OF CTH M INTERSECTION	MO 4-8	24"x12"	1	12	12							
	"	M 3-2	24"x12"	1	12	12							
	II .	M 1-6	24"x24"	1	12	12							96
	11	MO 5-1L	21"X21"	1	12	12							30
3	STH 96, AT CTH M, PLACE RIGHT OF EXISTING J13-1 AT CTH M INTERSECTION	MO 4-8	24"X12"	1	12	12							
J	SIN 30, AT CIN M, PLACE RIGHT OF EXISTING JIS-I AT CIN M INTERSECTION	MO 4-8 M 3-2	24"X12"	1	12	12							
			24"X24"							+			96
	11	M 1-6		1	12	12				-			
	"	MO 6-1	21"X21"	1	12	12							LEFT
4	STH 96, AT CTH M, PLACE ON RIGHT SHOULDER IN SE QUADRANT OF INTERSECTION	R 11-3	60"x30"	1	12	12	12	24					5 MILES AHEAD
	"	MO 4-9L	30"x24"	1	12	12							
5	CTH M, AT STH 96, MODIFY EXISTING J13-2 SIGN AS SHOWN	MO 6-6	21"X21"	1	12	12							
6	STH 96, E. OF CTH M, COVER EXISTING J4-1 SIGN AS SHOWN												COVER ENTIRE SIGN
7	CTH M, AT STH 96, MODIFY EXISTING J13-2 SIGN AS SHOWN	MO 6-1	21"X21"	1	12	12							RIGHT
8	CTH M, N. OF STH 96, PLACE 250' N. OF STH 96 INTERSECTION	MO 4-8	24"X12"	1	12	12							
	п	м 3-2	24"X12"	1	12	12							
	11	м 1-6	24"x24"	1	12	12							96
9	CTH M, N. OF STH 96, MODIFY EXISTING J1-1 AS SHOWN	MO 4-8A	24"x18"	1	12	12							
10	STH 96, AT NORTH RD, PLACE IN SE QUADRANT OF INTERSECTION ON RIGHT SHOULDER	R 11-3	60"x30"	1	12	12	12	24					2 MILES AHEAD
11	STH 96, W. OF STH 76, PLACE ON RIGHT SHOULDER, FIELD DETERMINE LOCATION	PCMS		1					7				PLACE IN ADVANCE OF CLOSURE
12	STH 96, E. OF STH 76, PLACE ON RIGHT SHOULDER, FIELD DETERMINE LOCATION	PCMS		1					7				PLACE IN ADVANCE OF CLOSURE
13	STH 96, W. OF CTH CB, COVER EXISTING J4-1 SIGN AS SHOWN	1 (115		1 -					,		1	1	COVER ENTIRE SIGN
14	STH 96, AT CTH CB, PLACE IN NW QUADRANT OF INTERSECTION ON RIGHT SHOULDER	R 11-3	60"x30"	1	12	12	12	24		+		-	1 1/2 MILES AHEAD
14	SIN 30, AT CITIES, PLACE IN NW QUADRANT OF INTERSECTION ON RIGHT SHOULDER	M 4-9R	30"x24"	1	12	12	12	24					1 1/2 MILES AREAD
15	CTH CB, AT STH 96, COVER EXISTING J3-2 SIGN AS SHOWN	M 4-3K	30 A24	<u> </u>	12	12					1	1	COVER "WEST 96 LEFT"
16		MO 4-8	24"x12"	1	12	12				+	Т	1	COVER WEST 90 LEFT
10	STH 96, AT CTH CB, PLACE RIGHT OF EXISTING J13-1 SIGN		24 X12 24"X12"										
	п	M 3-4		1	12	12							0.5
	"	M 1-6	24"X24"	1	12	12							96
		MO 6-1	21"X21"	1	12	12							RIGHT
17	STH 96, E. OF CTH CB, PLACE 750' E. OF CTH CB INTERSECTION	MO 4-8	24"X12"	1	12	12							
	"	м 3-4	24"X12"	1	12	12							
	П	м 1-6	24"x24"	1	12	12							96
	11	MO 5-1R	21"x21"	1	12	12							
18	STH 96, E. OF CTH CB, PLACE 1500' E. OF CTH CB INTERSECTION IN MEDIAN	м 3-4	24"x12"	1	12	12							
	=	м 1-6	24"X24"	1	12	12							96
	η	W 20-2A	48"x48"	1	12	12							
19	STH 96, E. OF CTH CB, PLACE 1500' E. OF CTH CB INTERSECTION ON RIGHT SHOULDER	м 3-4	24"X12"	1	12	12							
	ıı ı	м 1-6	24"x24"	1	12	12							96
	II .	W 20-2A	48"x48"	1	12	12							
20	CTH CB, AT STH 96, COVER EXISTING J3-2 SIGN AS SHOWN	,		† -	†						1	1	COVER "WEST 96 RIGHT"
21	CTH CB, N. OF STH 96, PLACE 250' N. OF STH 96 INTERSECTION	MO 4-8	24"x12"	1	12	12							
- 1	II	M 3-4	24"X12"	1	12	12				 			
	II .	M 1-6	24"X24"	1	12	12				+			96
	PAGE SUBTOTALS	M T-0	47 A44	41	1 14	468	36	72	14	0		3	30

PLAN SHEET PRODUCED BY WisDOT - NE REGION

						643.0900	643.0420	643.0705	643.1000	643.1050		643.0920	
					APPROX.	SIGNS	BARRICADES	WARNING	SIGNS	SIGNS		COVERING	
				NUMBER	SERVICE		TYPE III	LIGHTS	FIXED	PORTABLE	NO 05	SIGNS	
CTCN		SIGN	SIZE	IN SERVICE	PERIOD 12			TYPE A	MESSAGE	CHANGEABLE MESSAGE	NO OF CYCLES	TYPE II	
SIGN	LOCATION	CODE	W X H	SERVICE	DAYS	DAVE	DAVE	DAVE	SF		CYCLES	FACIL	DEMARK C
NO. 22	CTH CB, N. OF STH 96, MODIFY EXISTING J1-1 SIGN AS SHOWN	MO 4-8A	24"X18"	1	12	DAYS 12	DAYS	DAYS	SF.	DAYS		EACH	REMARKS
23	CTH CB, N. OF STH 90, MODIFY EXISTING JI-1 SIGN AS SHOWN CTH CB, S. OF STH 15, PLACE 500' S. OF STH 15 INTERSECTION	MO 4-8A	24"X12"	1	12	12							
23	" III CB, 3. OF 3III 13, FLACE 300 3. OF 3III 13 INTERSECTION	M 3-4	24"X12"	1	12	12							
	11	M 1-6	24"X24"	1	12	12							96
	11	MO 5-1L	21"X21"	1	12	12							30
24	CTH CB, S. OF STH 96, PLACE 250' S. OF STH 96 INTERSECTION	MO 4-8	24"x12"	1	12	12							
	п	M 3-2	24"x12"	1	12	12							
	II .	м 1-6	24"x24"	1	12	12							96
25	CTH CB, AT STH 15, PLACE RIGHT OF EXISTING R1-2 SIGN AT STH 15 INTERSECTION	MO 4-8	24"x12"	1	12	12							
	II.	м 3-4	24"x12"	1	12	12							
	П	м 1-6	24"x24"	1	12	12							96
	П	MO 6-1	21"X21"	1	12	12							LEFT
26	STH 15, AT CTH CB, PLACE NEXT TO EXISTING SPLITTER ISLAND SIGN ON WEST LEG EXIT	MO 4-8	24"X12"	1	12	12							
	п	м 3-4	24"X12"	1	12	12							
	п	м 1-6	24"X24"	1	12	12							96
	II .	MO 6-2	21"X21"	1	12	12							TILT RIGHT
27	STH 15, AT CTH CB, PLACE RIGHT OF EXISTING R1-2 SIGN AT CTH CB INTERSECTION	MO 4-8	36"x18"	1	12	12							
	"	M 3-2	36"x18"	1	12	12							
	"	м 1-6	36"x36"	1	12	12							96
	п	MO 6-1	30"x30"	1	12	12							RIGHT
28	STH 15, W. OF CTH CB, PLACE 250' W. OF CTH CB INTERSECTION	MO 4-8	36"x18"	1	12	12							
	"	м 3-4	36"x18"	1	12	12							
	"	м 1-6	36"x36"	1	12	12							96
29	STH 15, W. OF CTH CB, PLACE 750' W. OF CTH CB INTERSECTION	MO 4-8	36"x18"	1	12	12							
	"	M 3-2	36"x18"	1	12	12							
	" "	M 1-6	36"x36"	1	12	12							96
20		MO 5-1R	30"x30"	1	12	12							
30	STH 15, E. OF STH 76, PLACE 250' E. OF STH 76 INTERSECTION	MO 4-8	36"x18" 36"x18"	1	12	12 12							
	п	м 3-4 м 1-6	36 X18	1	12 12	12							96
	п	MO 6-1	30"x30"	1	12	12							AHEAD
31	STH 15, W. OF STH 76, PLACE 250' W. OF STH 76 INTERSECTION	MO 4-8	36"x18"	1	12	12							AREAD
21	JIII 13, W. OF JIII 10, FLACE 230 W. OF JIII 10 INTERSECTION	MO 4-8 M 3-2	36"X18"	1	12	12				+ -		+	
	11	M 1-6	36"x36"	1	12	12				 		 	96
	11	MO 6-1	30"x30"	1	12	12				†			AHEAD
32	STH 15, E. OF NORTH RD, PLACE 250' E. OF NORTH RD INTERSECTION	MO 4-8	36"x18"	1	12	12				†		1	/ WILD
	II	M 3-4	36"x18"	1	12	12				†			
	п	M 1-6	36"x36"	1	12	12							96
	п	MO 6-1	30"x30"	1	12	12							AHEAD
33	STH 15, W. OF NORTH RD, PLACE 250' W. OF NORTH RD INTERSECTION	MO 4-8	36"x18"	1	12	12							
	II .	M 3-2	36"x18"	1	12	12							
	п	м 1-6	36"x36"	1	12	12							96
	П	MO 6-1	30"x30"	1	12	12							AHEAD
	PAGE SUBTOTALS			43		516	0	0	0	0		0	

PLAN SHEET PRODUCED BY WisDOT - NE REGION

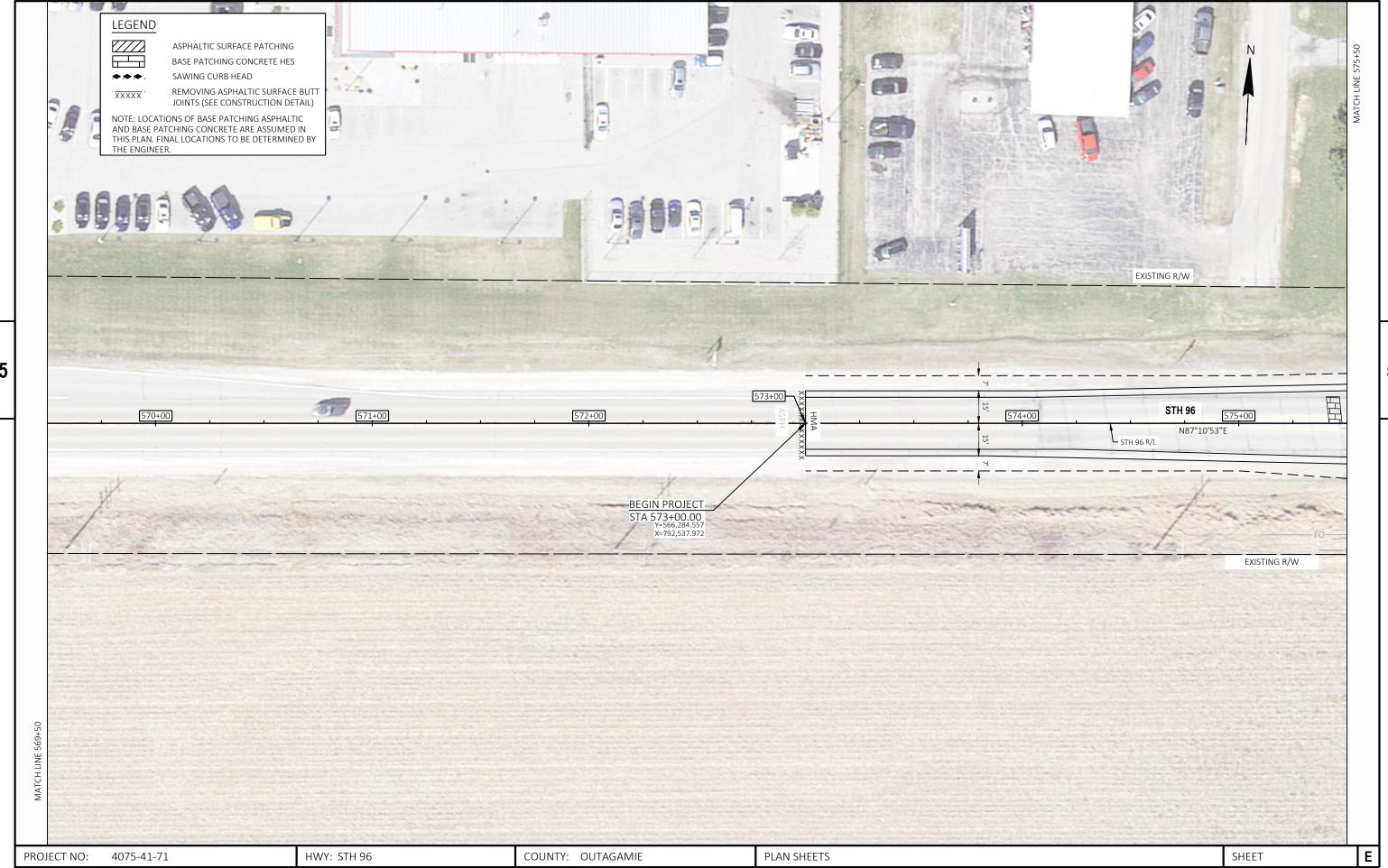
						643.0900	643.0420	643.0705	643.1000	643.1050		643.0920	
					APPROX.	SIGNS	BARRICADES	WARNING	SIGNS	SIGNS		COVERING	
				NUMBER	SERVICE	310(13	TYPE III	LIGHTS	FIXED	PORTABLE		SIGNS	
				IN	PERIOD		1112	TYPE A	MESSAGE	CHANGEABLE	NO OF	TYPE II	
SIGN		SIGN	SIZE	SERVICE	12			1112 A	MESSAGE	MESSAGE	CYCLES	'''	
NO.	LOCATION	CODE	W X H	JERVICE	DAYS	DAYS	DAYS	DAYS	SF	DAYS	CICLLS	EACH	REMARKS
34	STH 15, E. OF OLD HWY 15 RD, PLACE 750' E. OF OLD HWY 15 RD IN MEDIAN	MO 4-8	36"X18"	1	12	12	DATS	DATS	31	DATS		LACII	KERAKIS
J 1	311 13, E. 01 010 1111 13 No, 1 EACE 730 E. 01 010 1111 13 No 11 MEDIAN	M 3-4	36"X18"	1	12	12							
	II .	M 1-6	36"x36"	1	12	12							96
	· ·	MO 5-1L	30"x30"	1	12	12							30
35	STH 15, E. OF OLD HWY 15 RD, PLACE 750' E. OF OLD HWY 15 RD ON RIGHT SHOULDER	MO 4-8	36"x18"	1	12	12							
	"	M 3-4	36"x18"	1	12	12							
	"	м 1-6	36"x36"	1 1	12	12							96
	=	MO 5-1L	30"x30"	1	12	12							
36	STH 15, E. OF OLD HWY 15 RD, PLACE 250' E. OF OLD HWY 15 RD IN MEDIAN	MO 4-8	36"x18"	1	12	12							
	"	м 3-4	36"x18"	1	12	12							
	n .	м 1-6	36"x36"	1	12	12							96
	n .	MO 6-1	30"x30"	1	12	12							LEFT
37	STH 15, E. OF OLD HWY 15 RD, PLACE 250' E. OF OLD HWY 15 RD ON RIGHT SHOULDER	MO 4-8	36"x18"	1	12	12							
	"	м 3-4	36"x18"	1	12	12							
	п	м 1-6	36"x36"	1	12	12							96
	n .	MO 6-1	30"x30"	1	12	12							LEFT
38	STH 15, E. OF OLD HWY 15 RD, PLACE 150' E. OF OLD HWY 15 RD ON RIGHT SHOULDER	MO 4-8	36"x18"	1	12	12							
	П	м 3-2	36"x18"	1	12	12							
	н	м 1-6	36"x36"	1	12	12							96
39	STH 15, AT OLD HWY 15 RD, PLACE NEXT TO EXISTING SPLITTER ISLAND SIGN IN SOUTH LEG EXIT	MO 4-8	24"X12"	1	12	12							
	"	м 3-4	24"X12"	1	12	12							
	"	м 1-6	24"X24"	1	12	12							96
	"	MO 6-2	21"X21"	1	12	12							TILT RIGHT
40	OLD HWY 15 RD, S. OF STH 15, PLACE 150' S. OF STH 15 RAB INTERSECTION	MO 4-8	24"X12"	1	12	12							
	"	м 3-2	24"X12"	1	12	12							
	=	м 1-6	24"x24"	1	12	12							96
	· ·	MO 6-1	21"X21"	1	12	12							RIGHT
41	OLD HWY 15 RD, S. OF STH 15, PLACE 250' S. OF STH 15 RAB INTERSECTION	MO 4-8	24"x12"	1	12	12							
	ıı .	м 3-4	24"x12"	1	12	12							
	ıı .	м 1-6	24"x24"	1	12	12							96
42	OLD HWY 15 RD, S. OF STH 15, PLACE 500' S. OF STH 15 RAB INTERSECTION	MO 4-8	24"x12"	1	12	12							
	n .	м 3-2	24"x12"	1	12	12							
	"	м 1-6	24"X24"	1	12	12							96
	II .	MO 5-1R	21"X21"	1	12	12							
	PAGE SUBTOTALS			34		408	0	0	0	0		0	

PLAN SHEET PRODUCED BY WisDOT - NE REGION

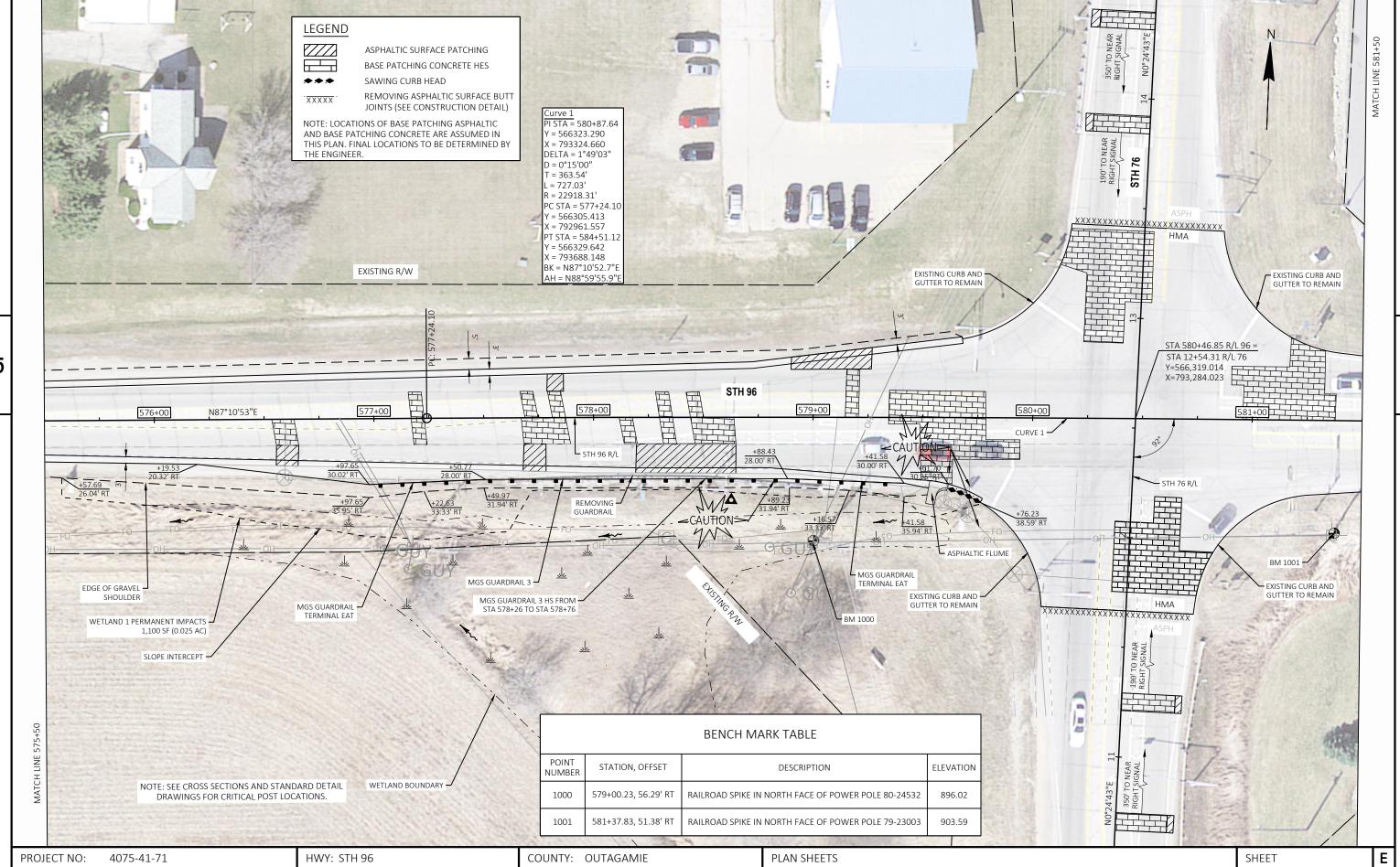
				NUMBER	APPROX. SERVICE	643.0900 SIGNS	643.0420 BARRICADES TYPE III	643.0705 WARNING LIGHTS	643.1000 SIGNS FIXED	643.1050 SIGNS PORTABLE		643.0920 COVERING SIGNS	
SIGN		SIGN	SIZE	IN SERVICE	PERIOD 12			TYPE A	MESSAGE	CHANGEABLE MESSAGE	NO OF CYCLES	TYPE II	
NO.	LOCATION	CODE	M X H	SERVICE	DAYS	DAYS	DAYS	DAYS	SF	DAYS	CYCLES	EACH	REMARKS
43	OLD HWY 15 RD, E. OF CTH M, PLACE 500' E. OF CTH M INTERSECTION	MO 4-8	24"X12"	1	12	12	DATS	DATS	3F	DATS		EACH	KEMAKKS
43	OLD HWY 13 KD, E. OF CHE MI, PLACE 300 E. OF CHE M INTERSECTION	M 3-4	24"X12"	1	12	12						+ +	
	П	M 1-6	24"X24"	1	12	12							96
	II .	MO 5-1L	21"X21"	1	12	12							30
44	OLD HWY 15 RD, E. OF CTH M, PLACE 250' E. OF CTH M INTERSECTION	MO 4-8	24"X12"	1	12	12							
	"	M 3-2	24"X12"	1	12	12							
	II .	M 1-6	24"x24"	1	12	12							96
45	OLD HWY 15 RD, E. OF CTH M, PLACE 100' E. OF CTH M INTERSECTION	MO 4-8	24"X12"	1	12	12							
	, ,	м 3-4	24"X12"	1	12	12							
	П	м 1-6	24"x24"	1	12	12							96
	П	MO 6-1	21"x21"	1	12	12							LEFT
46	CTH M, S. OF OLD HWY 15 RD, PLACE 100' S. OF OLD HWY 15 RD INTERSECTION	MO 4-8	24"x12"	1	12	12							
	II .	м 3-2	24"x12"	1	12	12							
	II	м 1-6	24"X24"	1	12	12							96
	П	MO 6-1	21"X21"	1	12	12							RIGHT
47	CTH M, S. OF OLD HWY 15 RD, PLACE 250' S. OF OLD HWY 15 RD INTERSECTION	MO 4-8	24"X12"	1	12	12							
	п	м 3-4	24"X12"	1	12	12							
	п	м 1-6	24"X24"	1	12	12							96
48	CTH M, S. OF OLD HWY 15 RD, PLACE 500' S. OF OLD HWY 15 RD INTERSECTION	MO 4-8	24"X12"	1	12	12							
	п	м 3-2	24"x12"	1	12	12							
	п	м 1-6	24"X24"	1	12	12							96
	II .	MO 5-1R	21"X21"	1	12	12							
	PAGE SUBTOTALS			22		264	0	0	0	0		0	

STH 96 DETOUR TOTALS 140 1,656 36 72 14 0 3

PLAN SHEET PRODUCED BY WisDOT - NE REGION



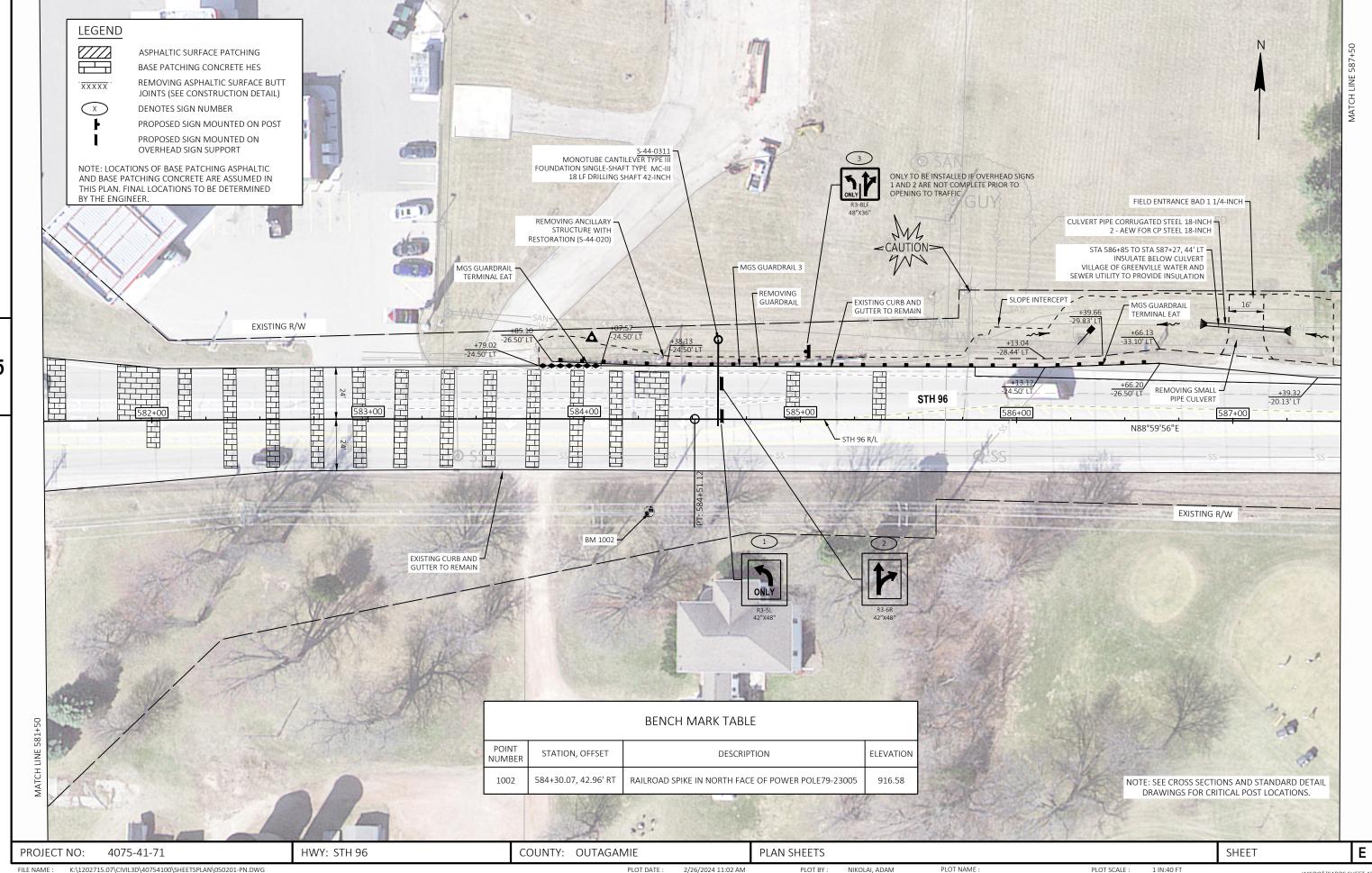
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FILE NAME : K:\1202715.07\CIVIL3D\40754100\SHEETSPLAN\\050201-PN.DWG PLOT DATE : 2/26/2024 11:01 AM PLOT BY : NIKOLAI, ADAM PLOT NAME : 1 IN:40 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 07

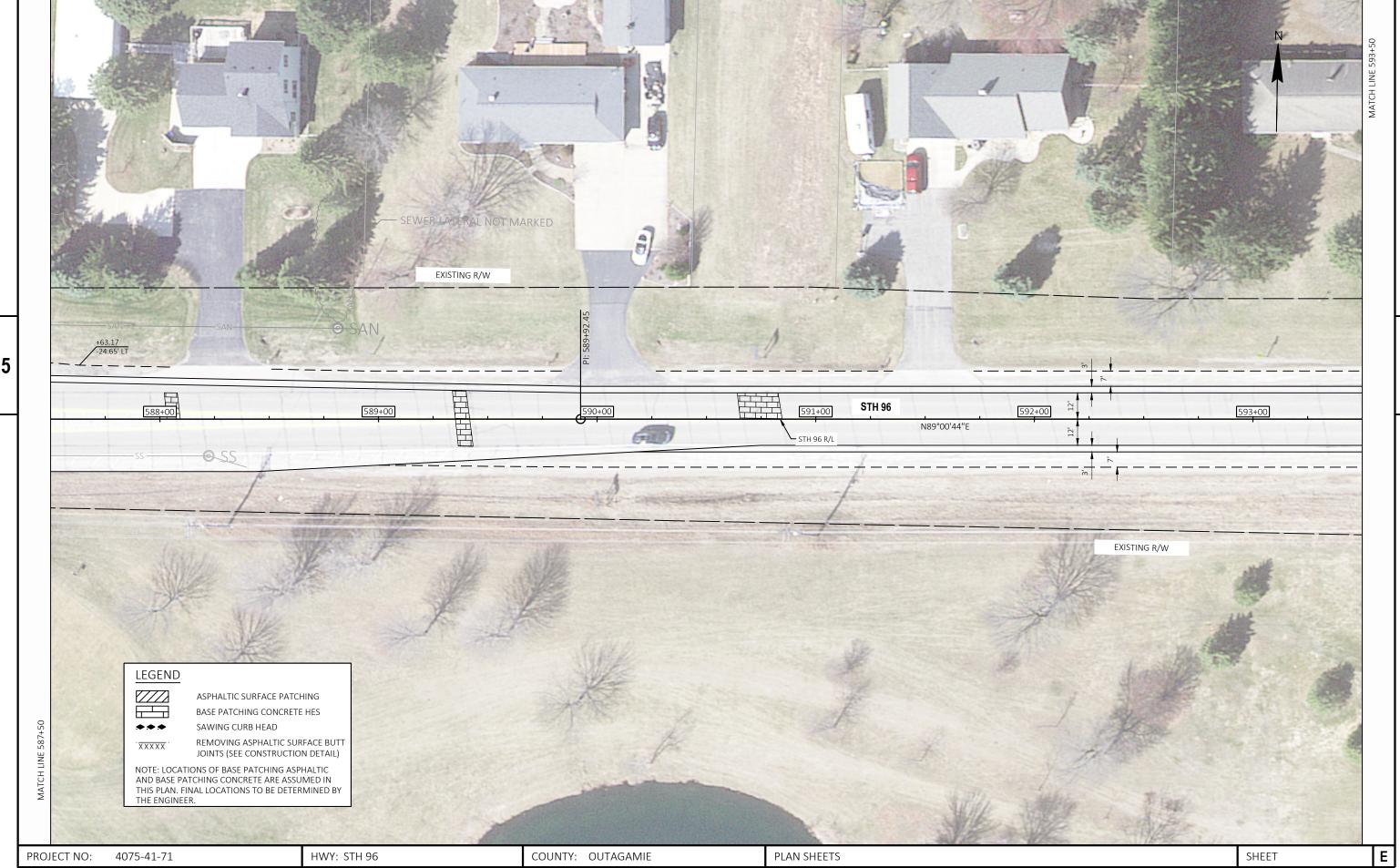
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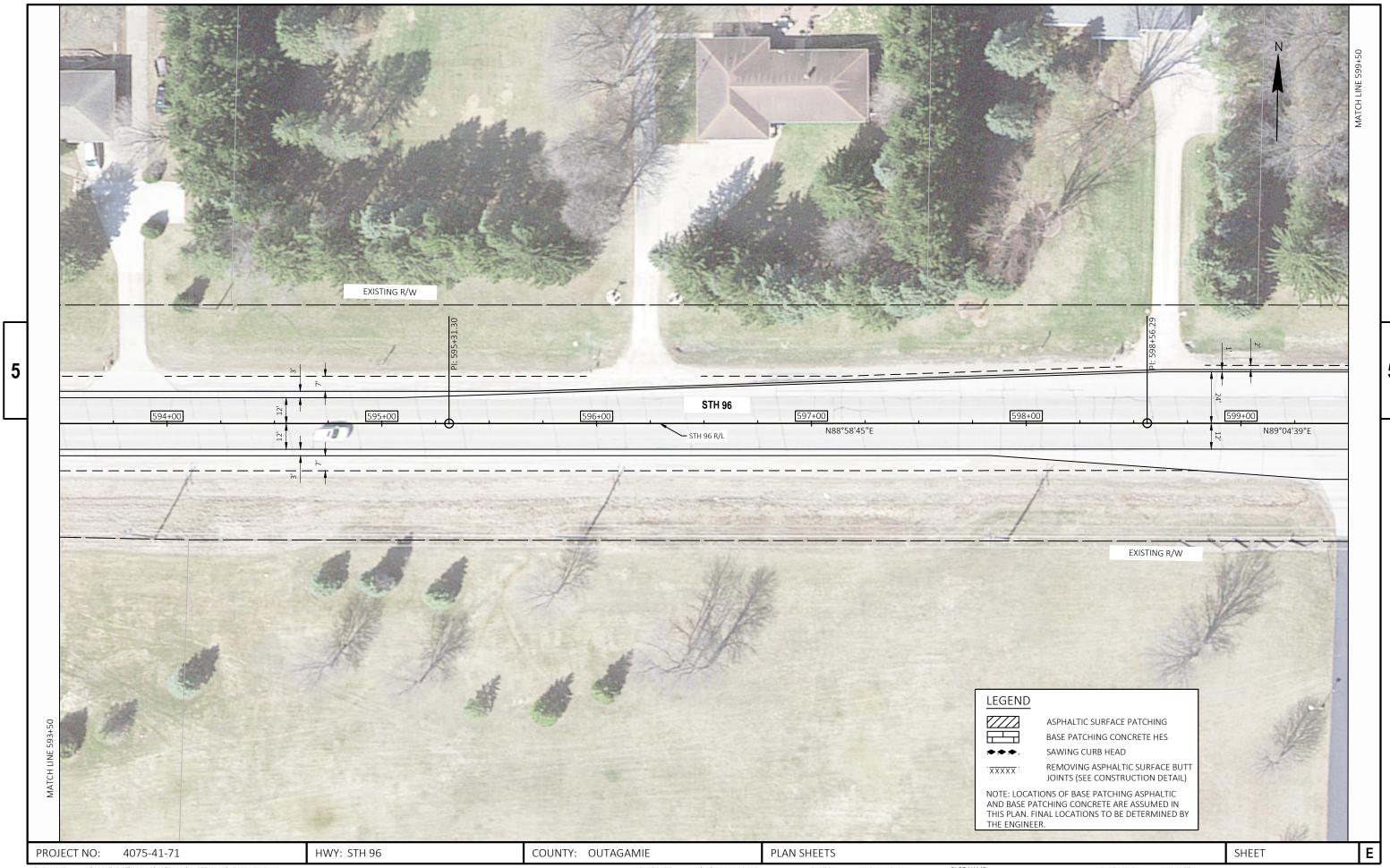
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1 IN:40 FT WISDOT/CADDS SHEET 42

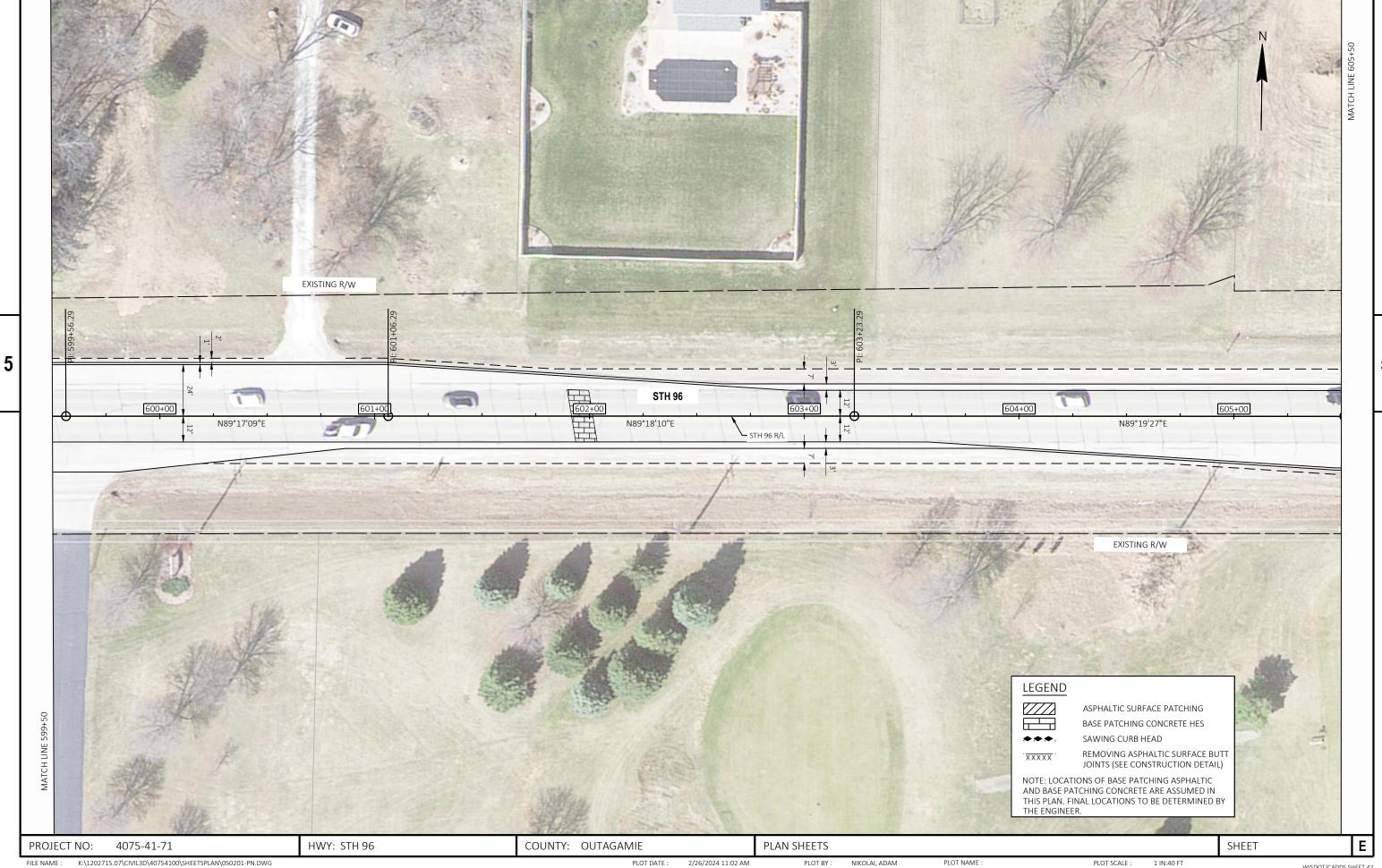


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5

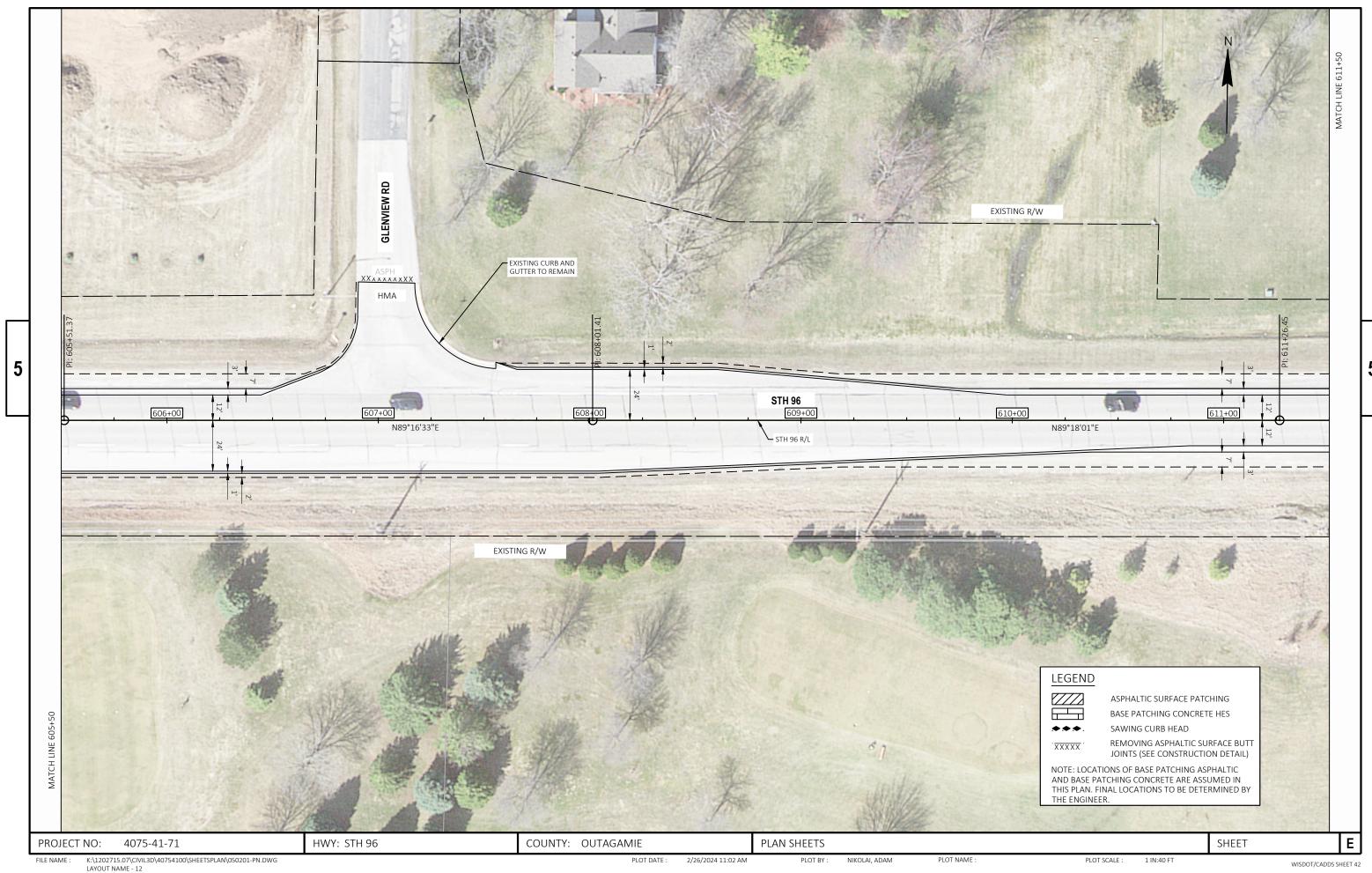


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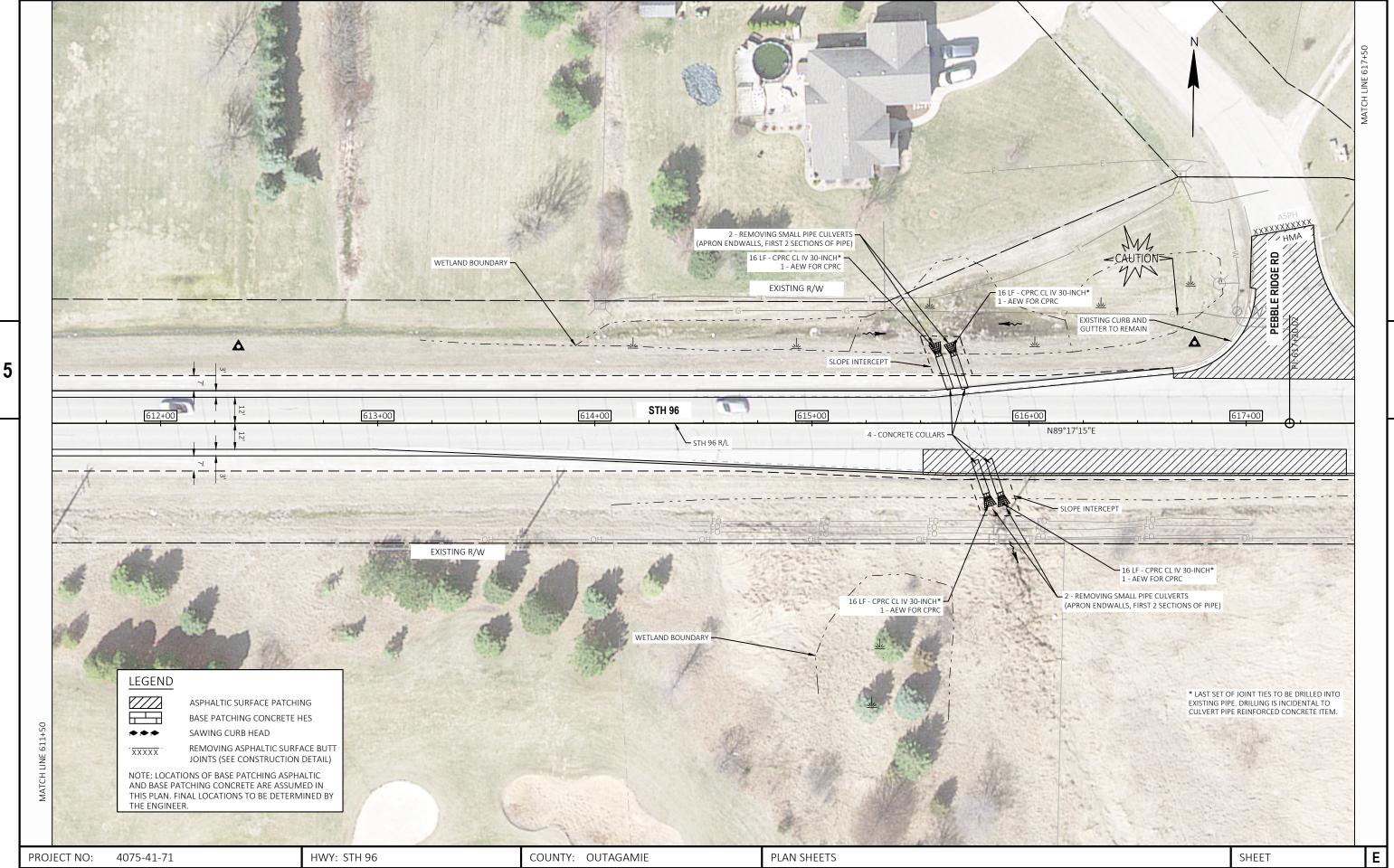


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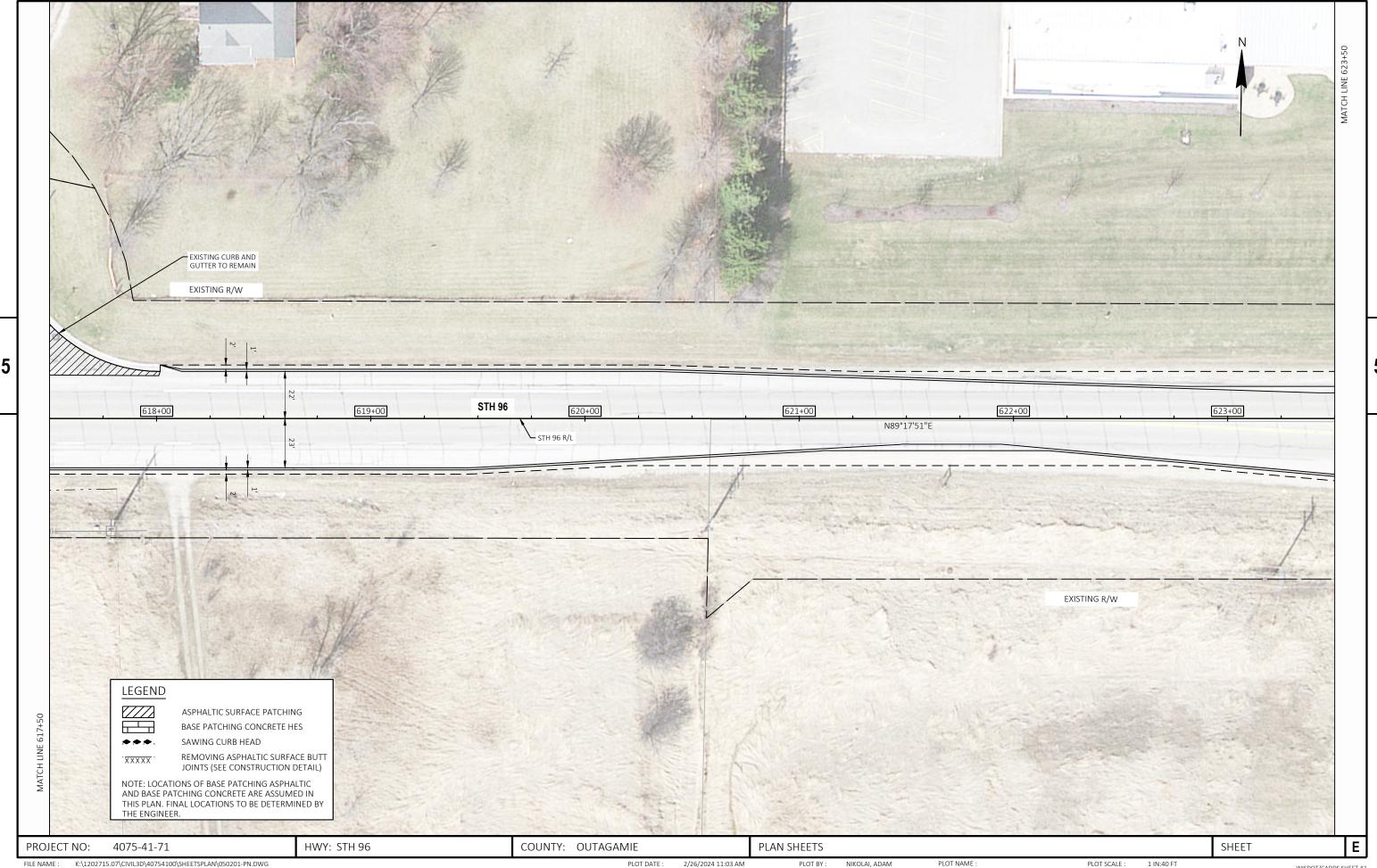
WISDOT/CADDS SHEET 42



WISDOT/CADDS SHEET 42

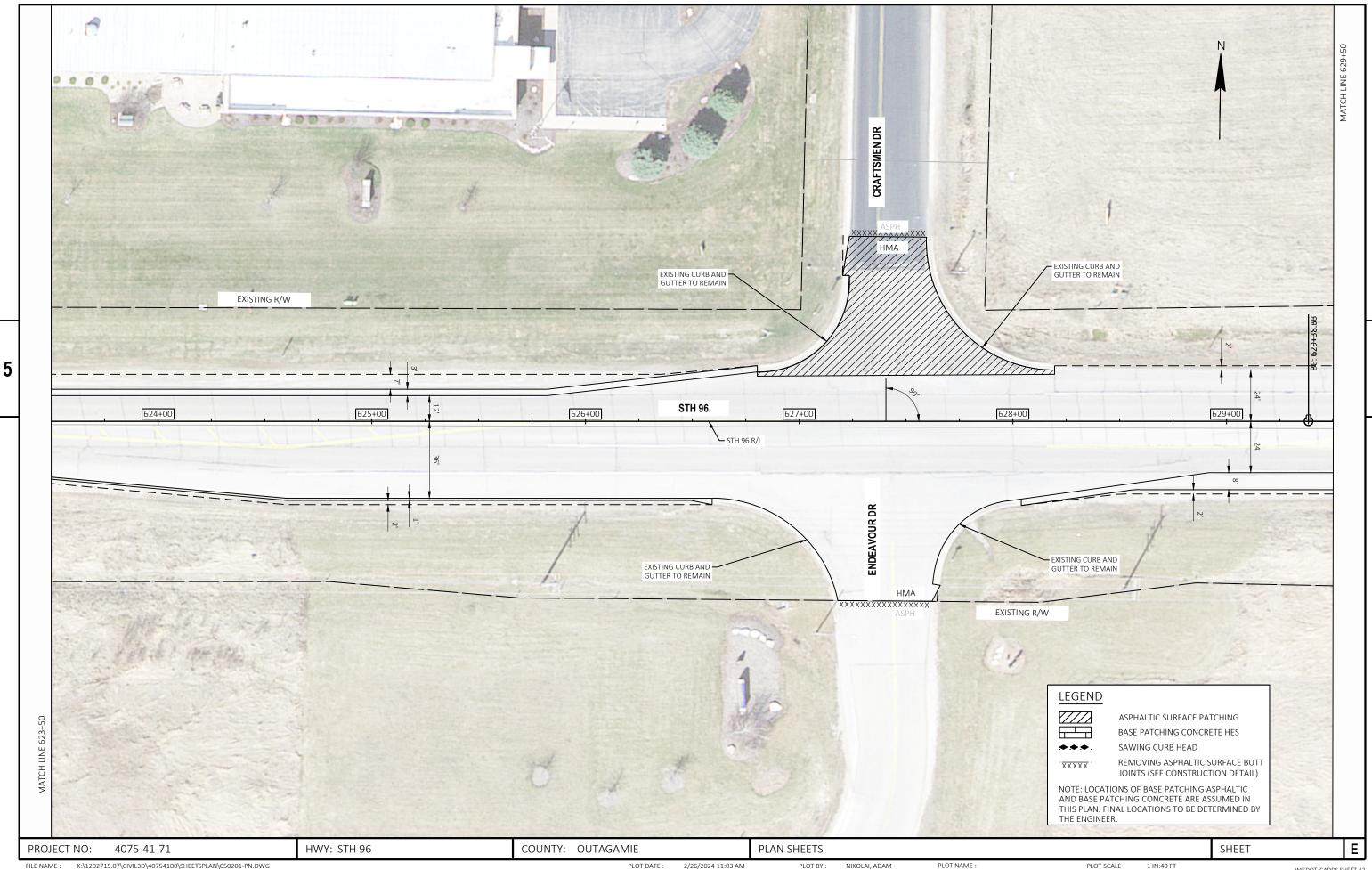


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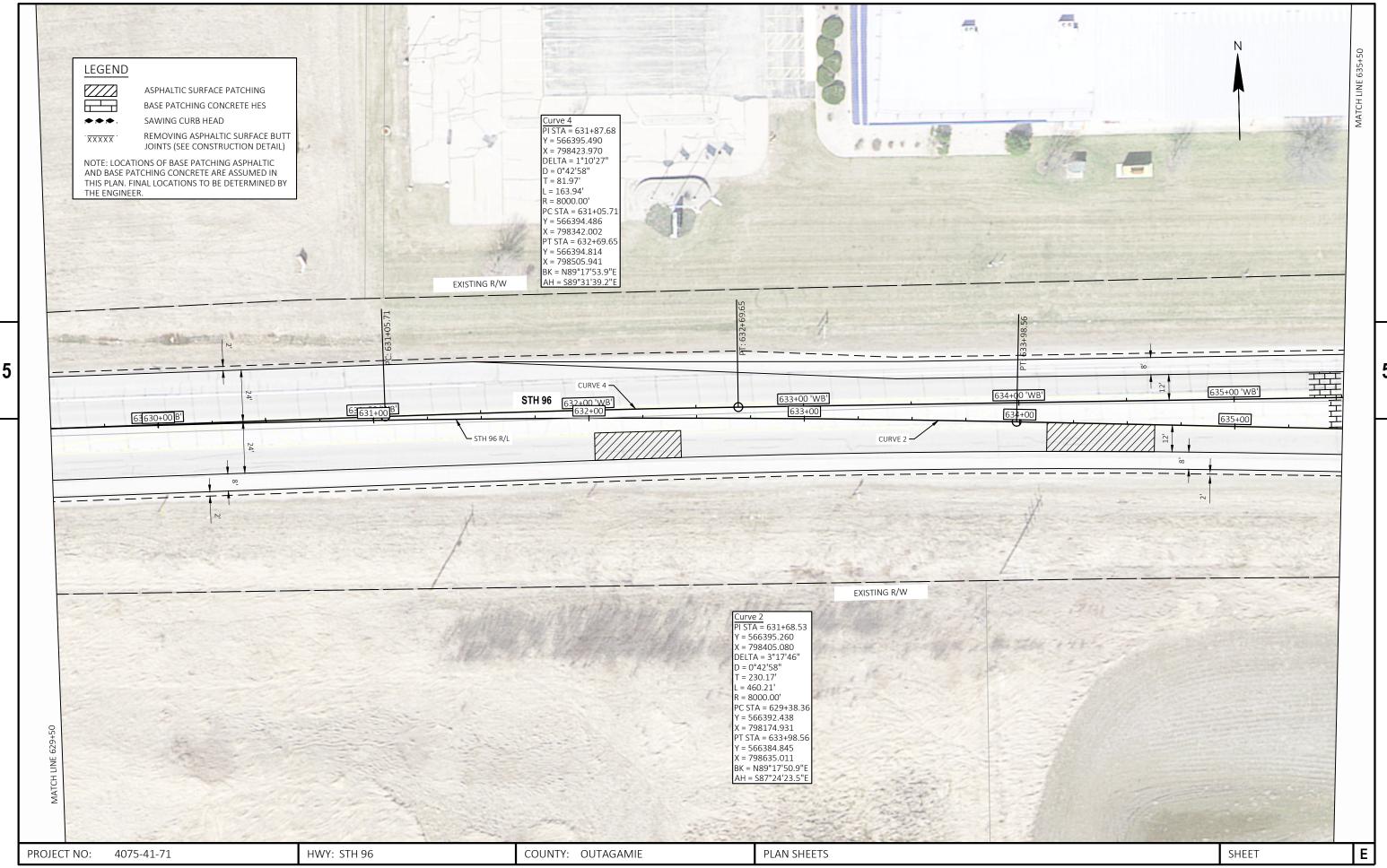
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WISDOT/CADDS SHEET 42

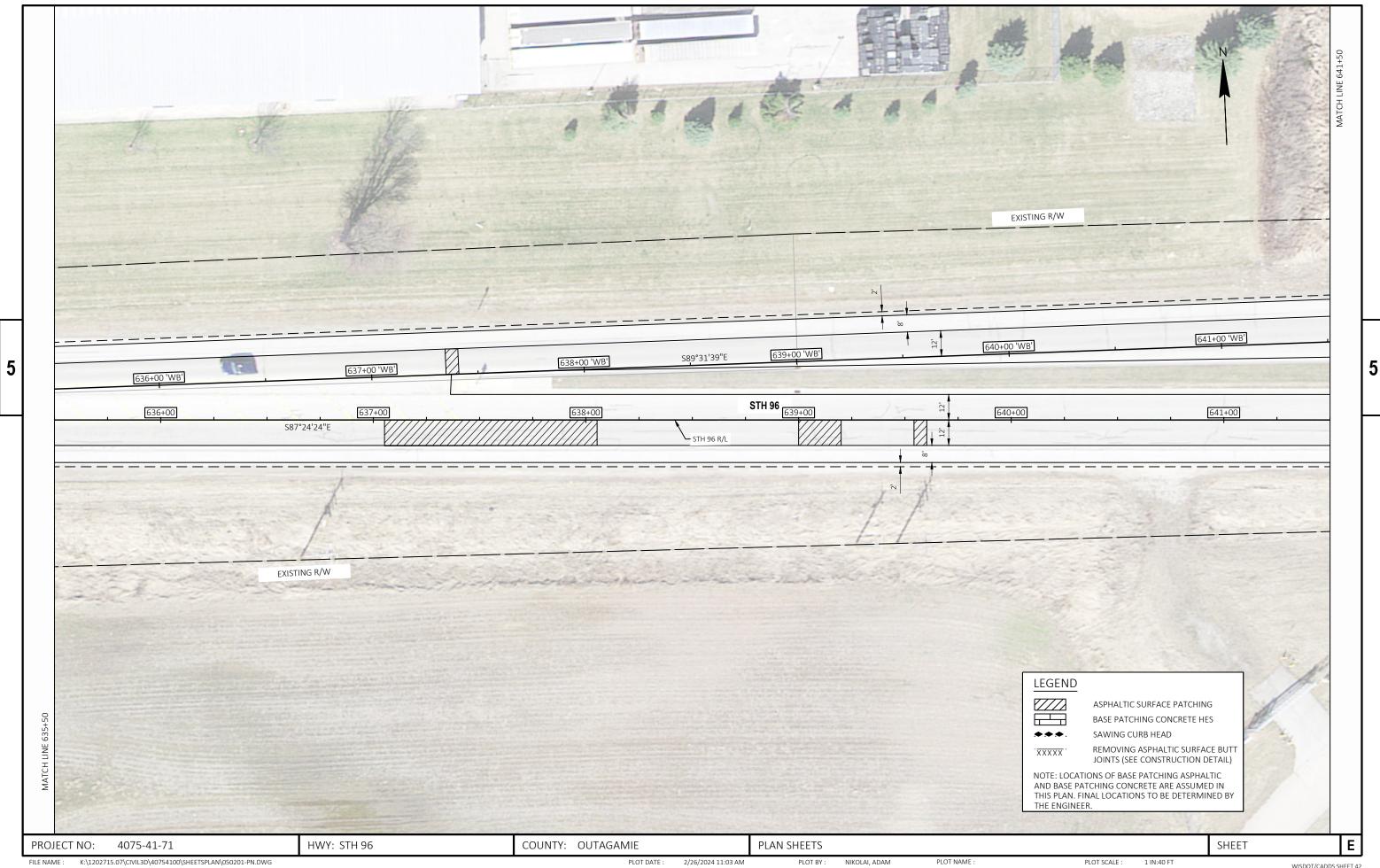


LAYOUT NAME - 15

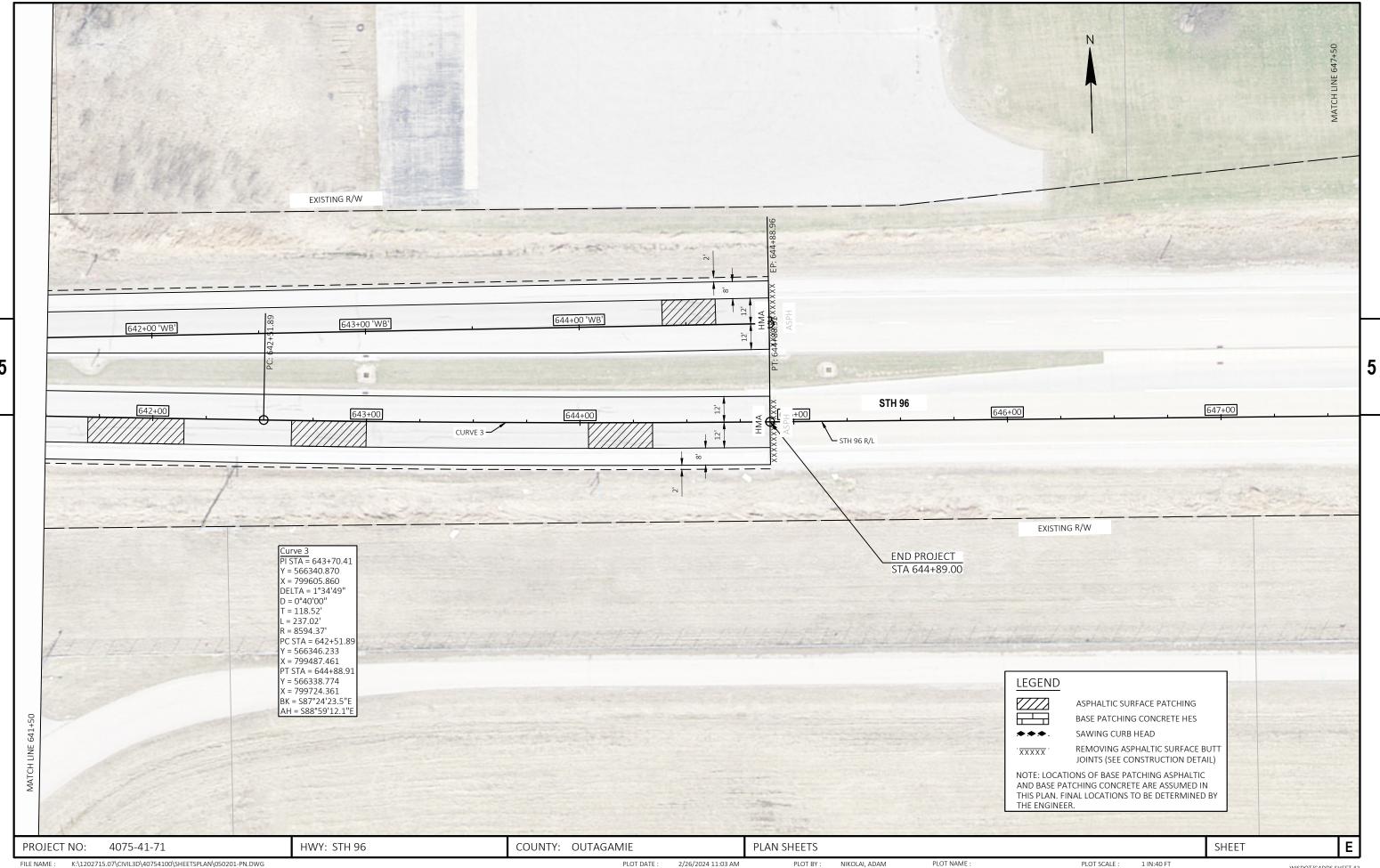
WISDOT/CADDS SHEET 42



FILE NAME : K:\1202715.07\CIVIL3D\40754100\SHEETSPLAN\050201-PN.DWG PLOT DATE : 2/26/2024 11:03 AM PLOT BY : NIKOLAI, ADAM PLOT NAME : 1 IN:40 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 16



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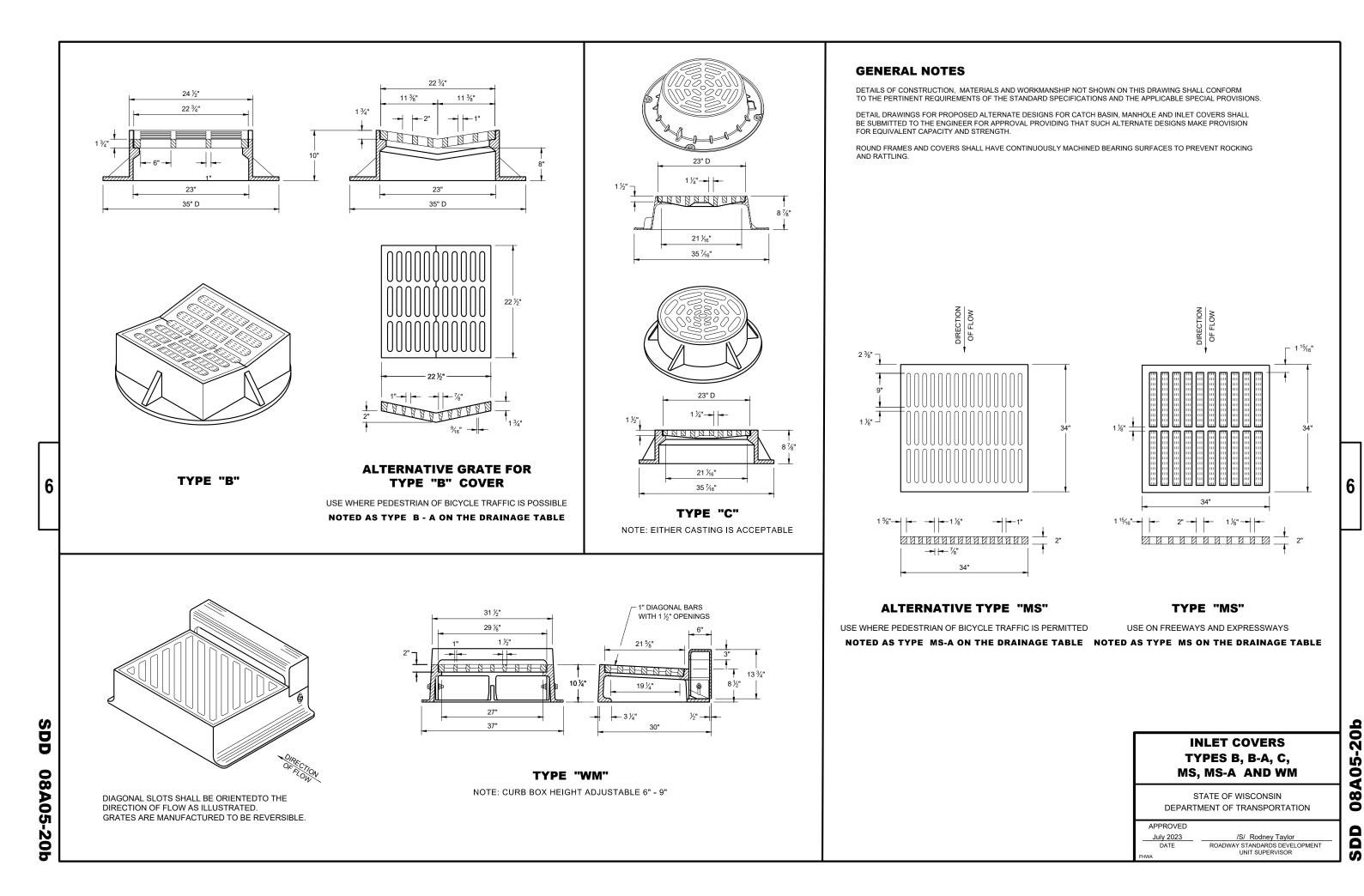


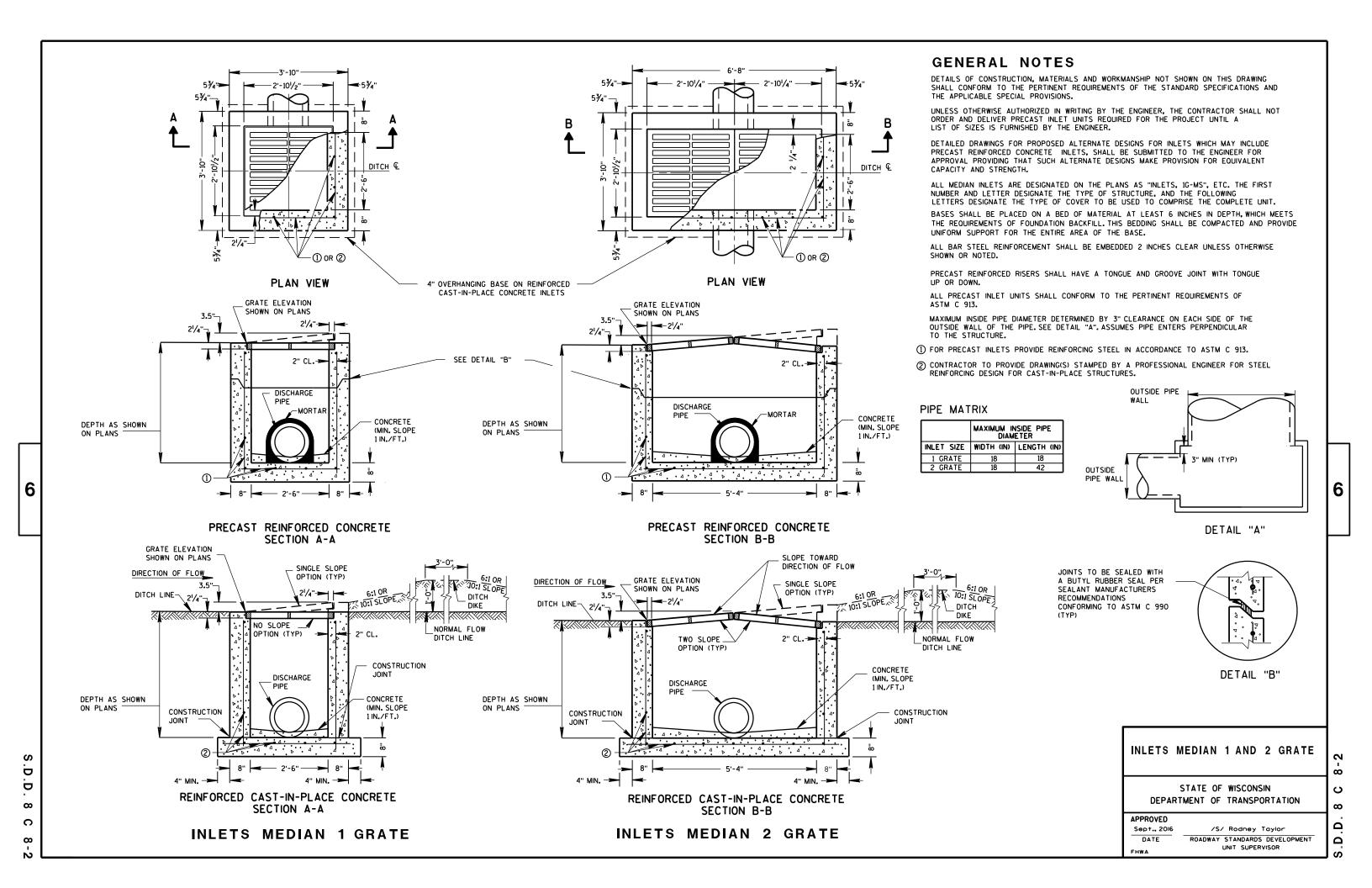
LAYOUT NAME - 18

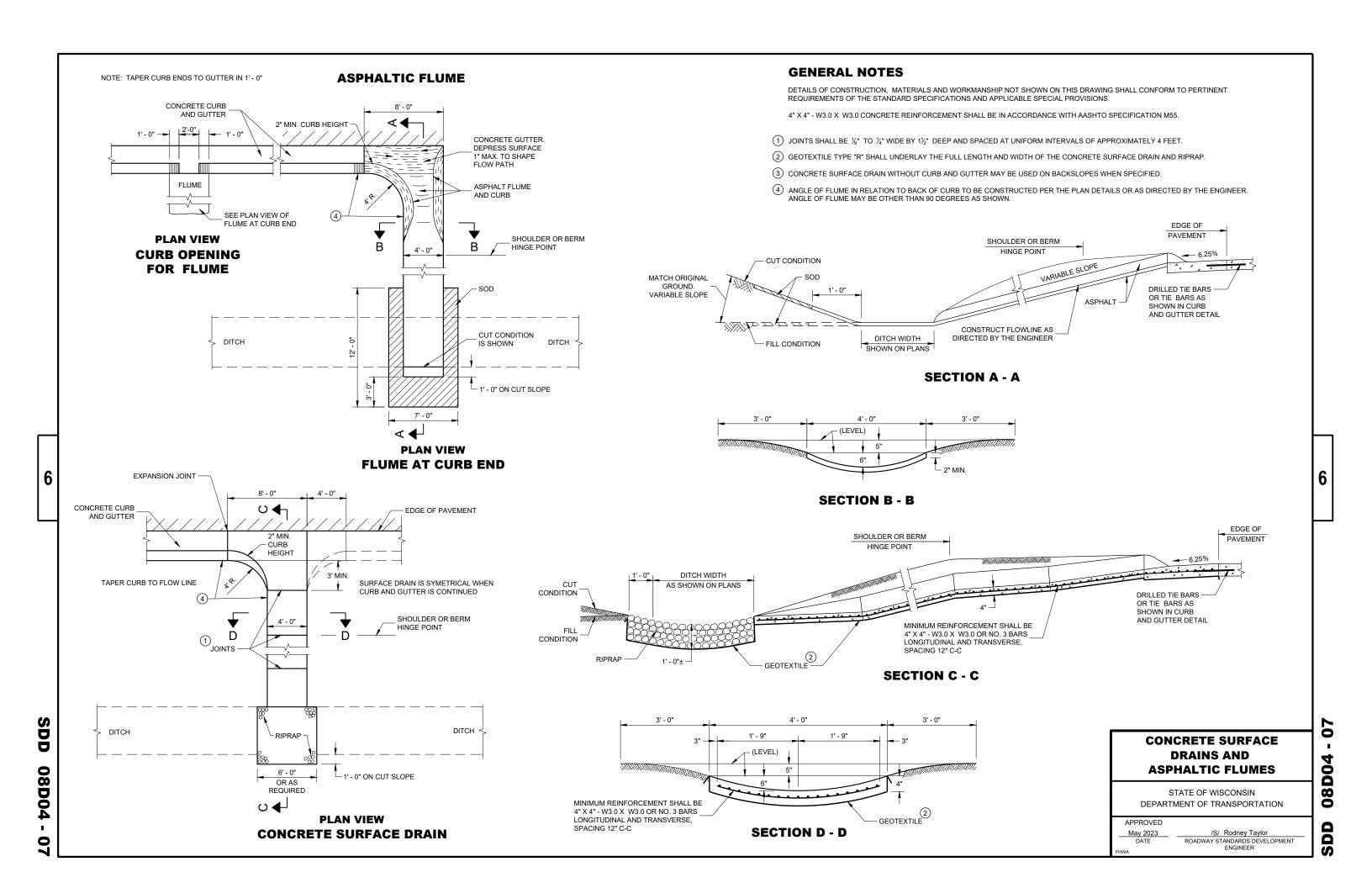
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Standard Detail Drawing List

08A05-20B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09в02-10	CONDUIT
09в16-02	PULL BOX NON-CONDUCTIVE
09F15-04A	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)
13C14-07A	BASE PATCHING CONCRETE
13С14-07В	BASE PATCHING CONCRETE
13C14-07C	BASE PATCHING CONCRETE
13C19-03	HMA LONGITUDINAL JOINTS
14B42-07A	
	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-23C	PAVEMENT MARKING (TURN LANES)
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-08A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-08B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C19-08A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-08B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-08C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C21-11	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
	· · · · · · · · · · · · · · · · · · ·
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY



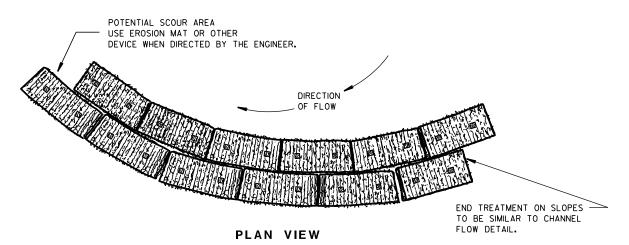




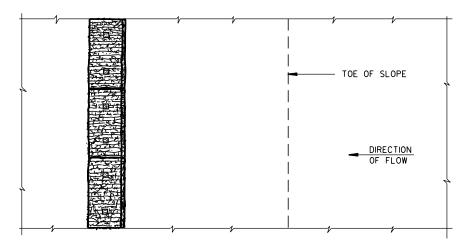
GENERAL NOTES

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.

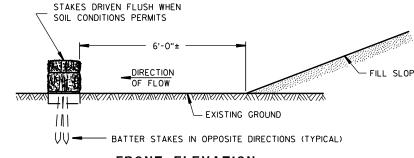
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



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

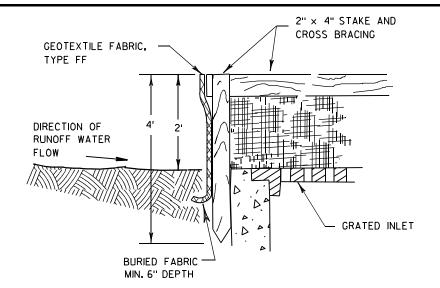
(WHEN REQUIRED BY THE ENGINEER)

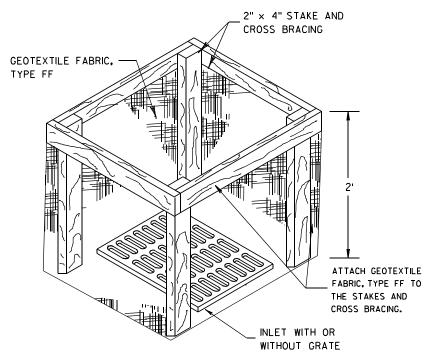


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INLET PROTECTION, TYPE A

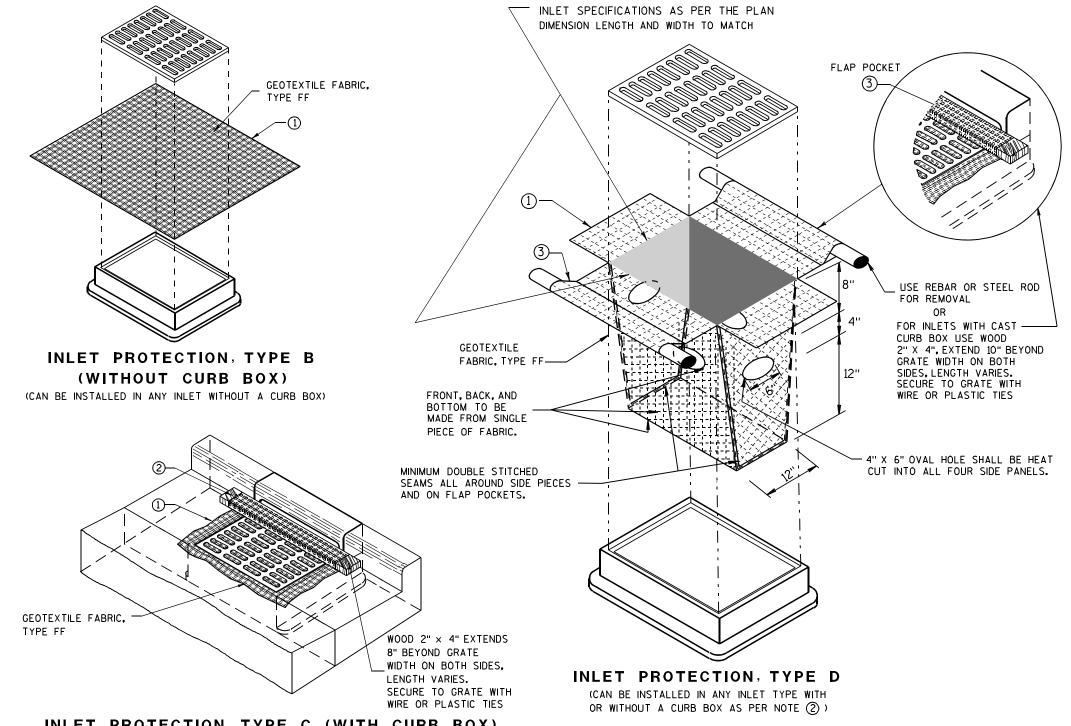
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- (2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION TYPE A, B, C, AND D

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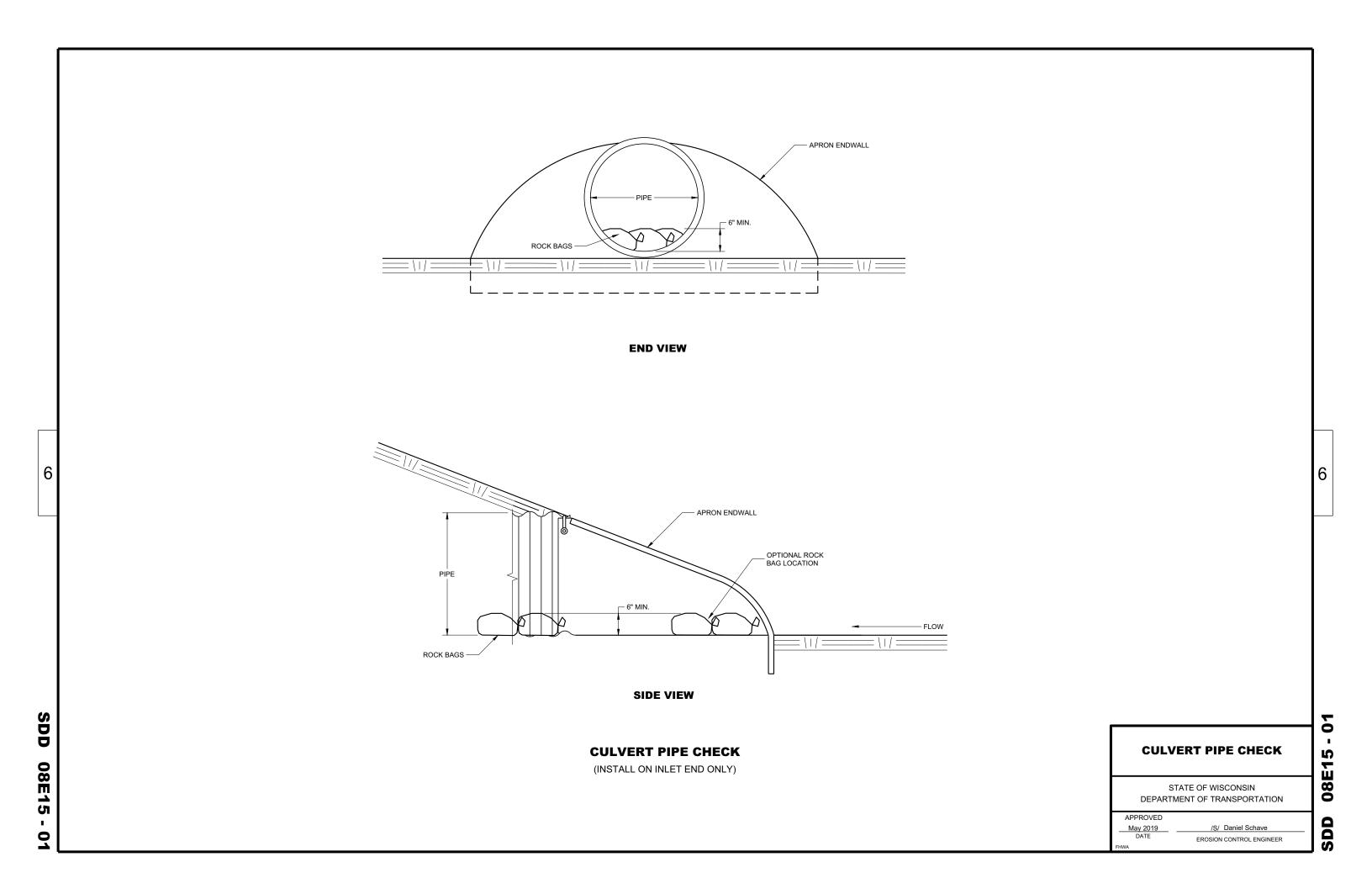
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

10/16/02



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END CORNER

1/16" DIA. HOLES FOR

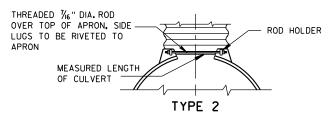
BOLTS OR RIVETS -

12" C-C MAX. SPACING

			N	METAL	APR	ON EI	NDWAL	.LS			
PIPE	MIN. THICK.		DIMENSIONS (Inches)							APPROX.	
DIA. (IN.)	(Inch		A (±]")	B (MAX.)	H (±]")	L (±1 ½")	L1 (1)	L 2 ①	₩ (±2")	SLOPE	BODY
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	21/2+o 1	1 Pc.
18	.064	.060	8	10	6	31	15	281/4	36	$2\frac{1}{2}$ to 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	$2\frac{1}{2}$ to 1	1Pc.
24	.064	.075	10	13	6	41	18	371/4	48	21/2+0 1	1Pc.
30	.079	.075	12	16	8	51	18	52 ¹ / ₄	60	21/2+0 1	1Pc.
36	.079	.105	14	19	9	60	24	59¾	72	2½+o 1	2 Pc.
42	.109	. 105	16	22	11	69	24	75%	84	21/2+o 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	1½+0 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	ı	ı	150	1½+0 1	3 Pc.

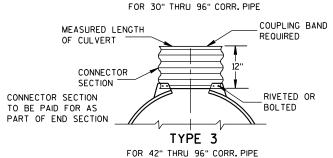
	RE	INFORC	ED C	ONCRET	E APRO	N E	NDWAL	.LS
PIPE			DIM	ENSIONS	(Inches)			APPROX.
DIA.	T	A	В	С	D	E	G	SLOPE
12	2	4	24	48 1/8	721/8	24	2	3 to 1
15	21/4	6	27	46	73	30	21/4	3 to 1
18	$2\frac{1}{2}$	9	27	46	73	36	21/2	3 to 1
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1
24	3	91/2	431/2	30	731/2	48	3	3 to 1
27	31/4	101/2	$49^{1}/_{2}$	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	**************************************	98 ¹ /4- 100	90	51/2	2% to 1
60	6	* ** 30-35	60	39	99	96	5	2 to 1
66	61/2		* ** 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	11/2+0 1
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1

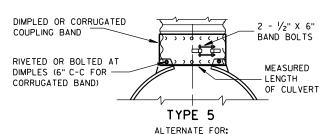
END SECTION CONNECTOR STRAP THREADED 76" DIA. ROD AROUND CULVERT & THROUGH CONNECTOR TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT



TYPE 1

FOR 12" THRU 24" CORR. PIPE





ALL SIZES CORRUGATED CIRCULAR PIPE

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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.

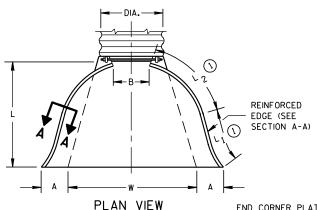
CONNECTION DETAILS

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

*MINIMUM **MAXIMUM

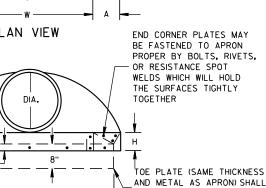
OPTIONAL

DESIGN



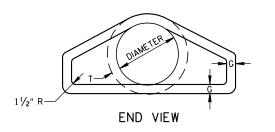
* EXCEPT CENTER PANEL

SEE GENERAL NOTES

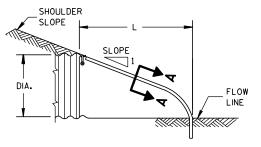


BE FURNISHED WHEN CALLED

FOR ON THE PLANS

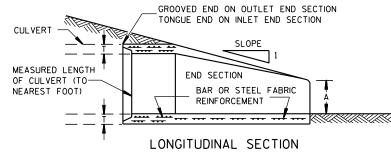


PLAN

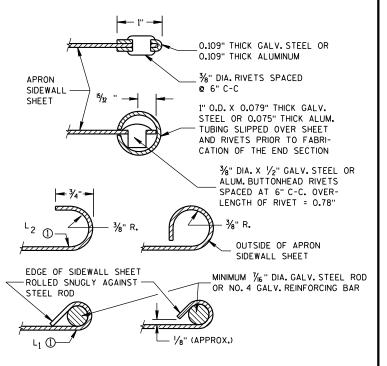


END VIEW





CONCRETE ENDWALLS



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.

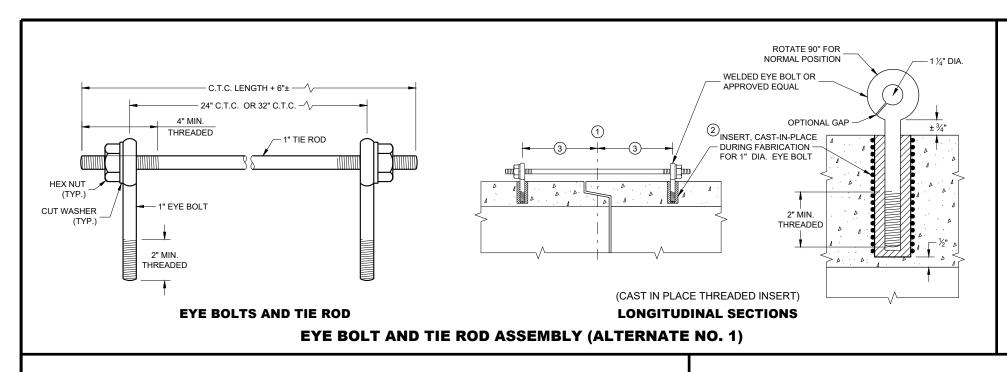
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

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



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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



GENERAL NOTES

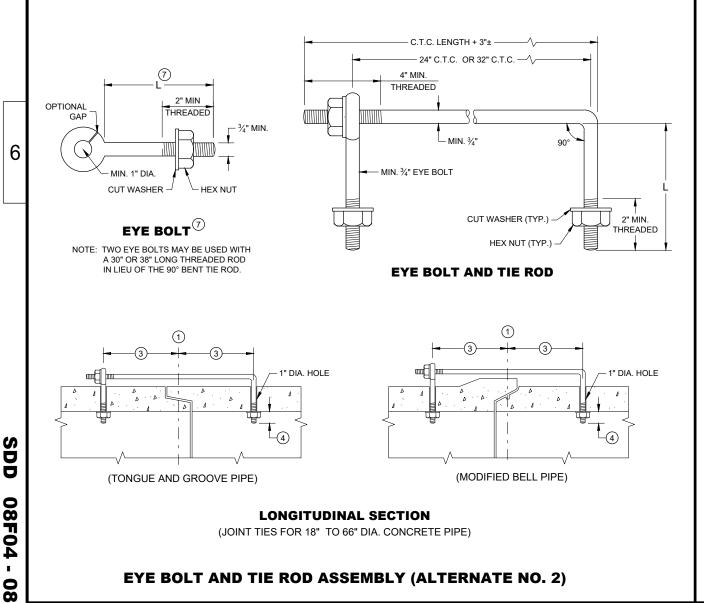
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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. LINESS 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

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.

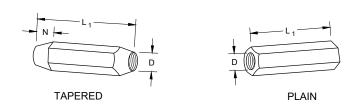
- 1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- 2 THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
- (3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- 5 OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- 6 LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.
- (7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.



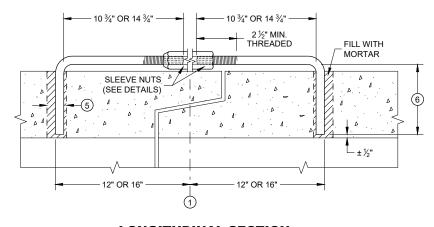
TIE ROD DIAMETER DIAMETER 5 12 - 60 5

ADJUSTABLE TIE ROD TABLE

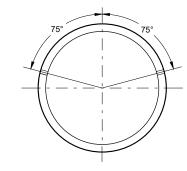
DIMENSIONS SHOWN ARE IN INCHES



RIGHT AND LEFT THREADS **SLEEVE NUTS**

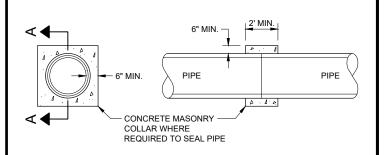


LONGITUDINAL SECTION ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

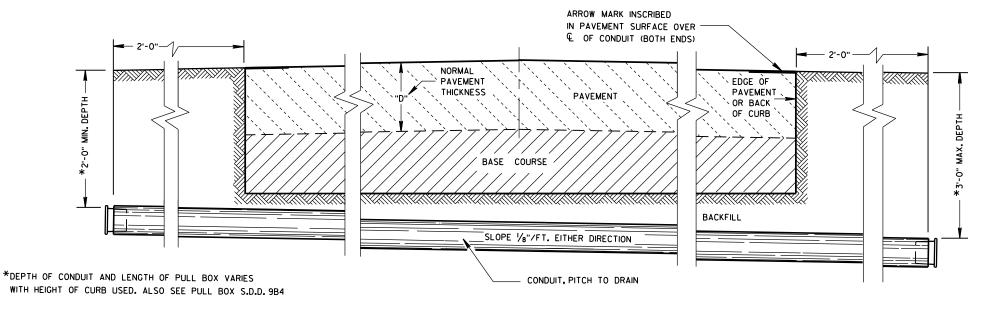
JOINT TIES FOR CONCRETE PIPE AND CONCRETE **COLLAR DETAIL**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED /S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT
ENGINEER November 2021 DATE

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SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L.LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REIN-STALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED /S/ Ahmet Demirbilek DATE STATE ELECTRICAL ENGINEER

FHWA

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GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN %" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN $\frac{1}{4}$ ".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN ½".

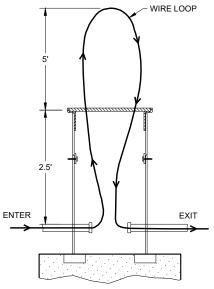
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE.

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

PULL BOXES NON-CONDUCTIVE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2022 /S/ Ahmet Demirbilek

DATE STATE ELECTRICAL ENGINEER

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3'- 0" OR AS 3'- 0" OR AS SHOWN ON THE SHOWN ON THE PLAN SHEET PLAN SHEET PLACE LOOP IN CENTER OF LANE(S) -PLACE LOOP IN CENTER OF LANE(S) 1" PVC CONDUIT -1" PVC CONDUIT HOME RUN HOME RUN CONDUIT CONDUIT 45° ELBOW 45° ELBOW OR BEND OR BEND -CONDUIT CONDUIT 90° ELBOW 90° ELBOW OR BEND OR BEND 6' OR AS SHOWN CONDUIT CONDUIT 6' OR AS SHOWN ON PLANSHEET ON PLANSHEET PULL (SPLICE) (SPLICE) 3'- 0" MAX. OR AS SHOWN 3'- 0" MAX. OR AS SHOWN ON THE PLAN SHEET ON THE PLAN SHEET

> **TYPICAL PLAN LOOP DETECTOR** WITH 18" OR 24" PULL (SPLICE) BOX

IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)

GENERAL NOTES

AS SHOWN ON THE PLANS.

LEAD-IN SHALL BE PLACED IN THE CABINET.

NON-SPLICED, CONTINUOUS LENGTH.

PROJECT ENGINEER

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO

FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP

THE #12 AWG LOOP WIRE IN THE ROADSIDE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE

PROTECTION OF THE CONDUIT IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE

SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

LOOP DETECTOR INSTALLED

APPROVED September 2014 DATE /S/ Ahmet Demirbilek

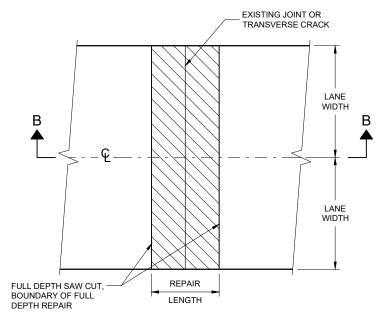
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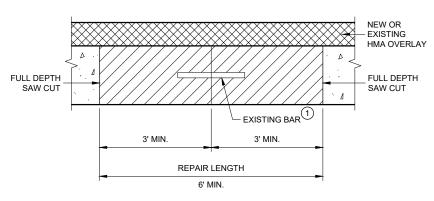


PLAN VIEW DOUBLE LANE REPAIR

EXISTING JOINT OR TRANSVERSE CRACK WIDTH LANE WIDTH FULL DEPTH SAW CUT, -BOUNDARY OF FULL DEPTH REPAIR REPAIR LENGTH

PLAN VIEW SINGLE LANE REPAIR

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION B - B **CONCRETE REMOVAL**

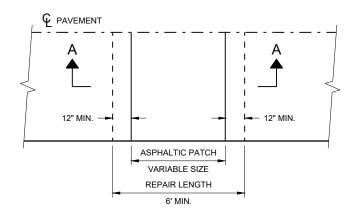
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE

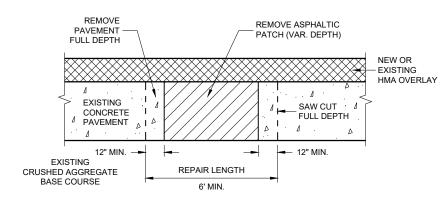
PROVIDE A 6 FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREA TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NON-DOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

1 DOWEL BARS MAY NOT BE PRESENT.



PLAN VIEW



SECTION A - A

HMA PATCH REMOVAL

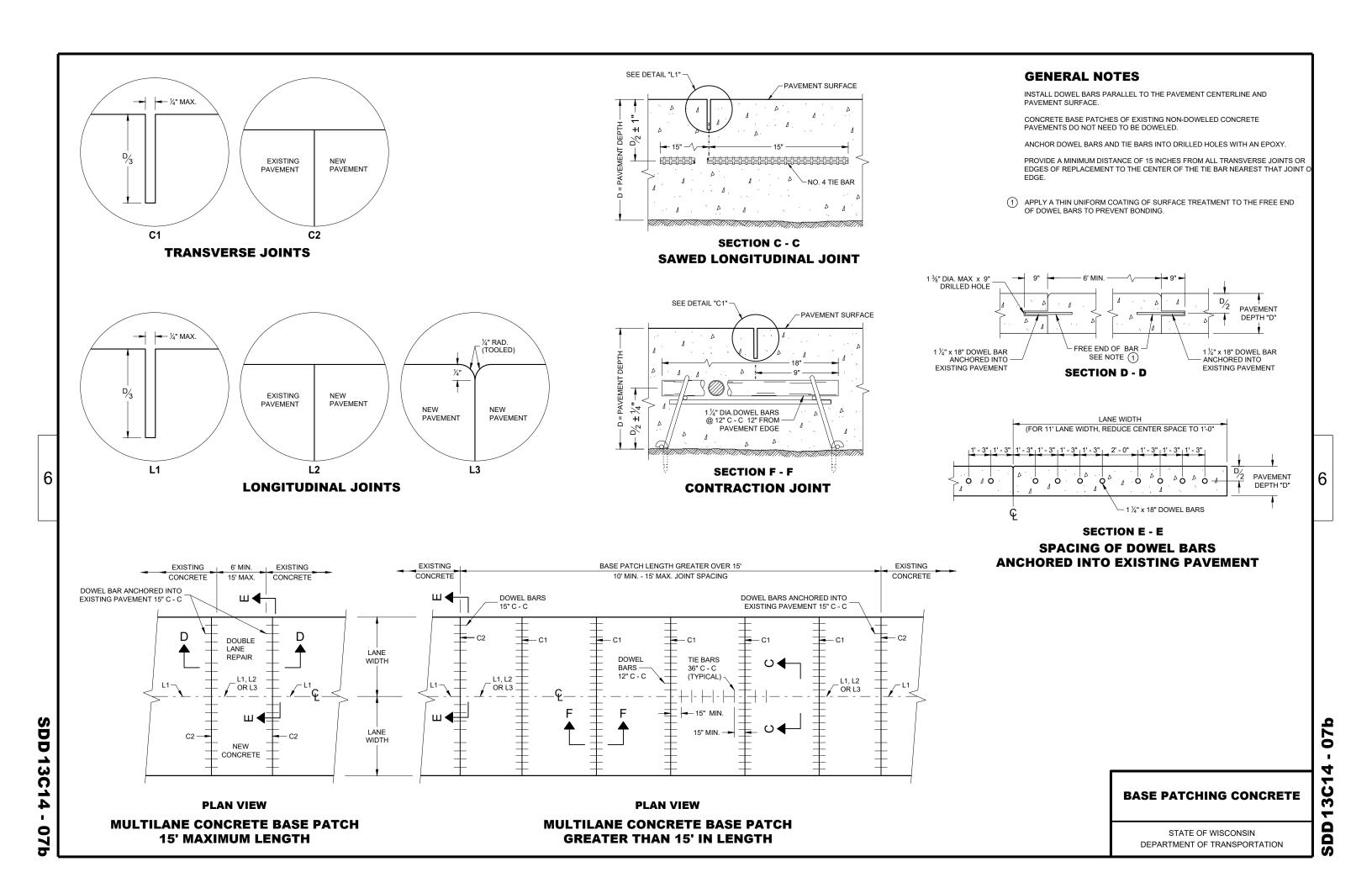
BASE PATCHING CONCRETE

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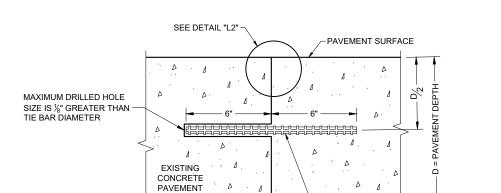
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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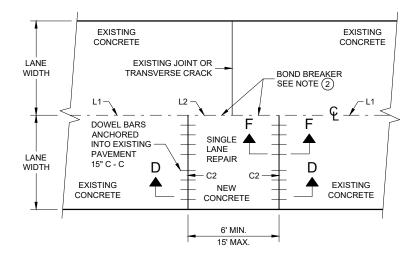


SECTION G - G TIE BARS ANCHORED INTO EXISTING PAVEMENT

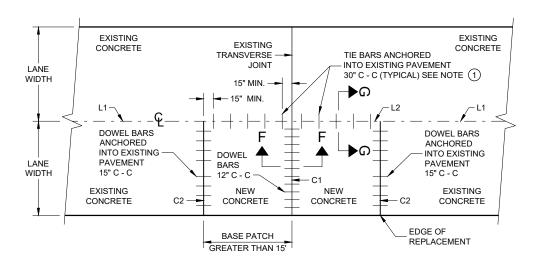
NO. 6 TIE BARS, SPACED 30" C - C, └ INSTALLED PERPENDICULAR TO THE LONGITUDINAL JOINT ③

GENERAL NOTES

- 1 WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
- ② USE AN ENGINEER APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.
- 3 ANCHOR TIE BARS INTO DRILLED HOES WITH AN EPOXY.



PLAN VIEW SINGLE LANE CONCRETE BASE PATCH **15' MAXIMUM LENGTH**



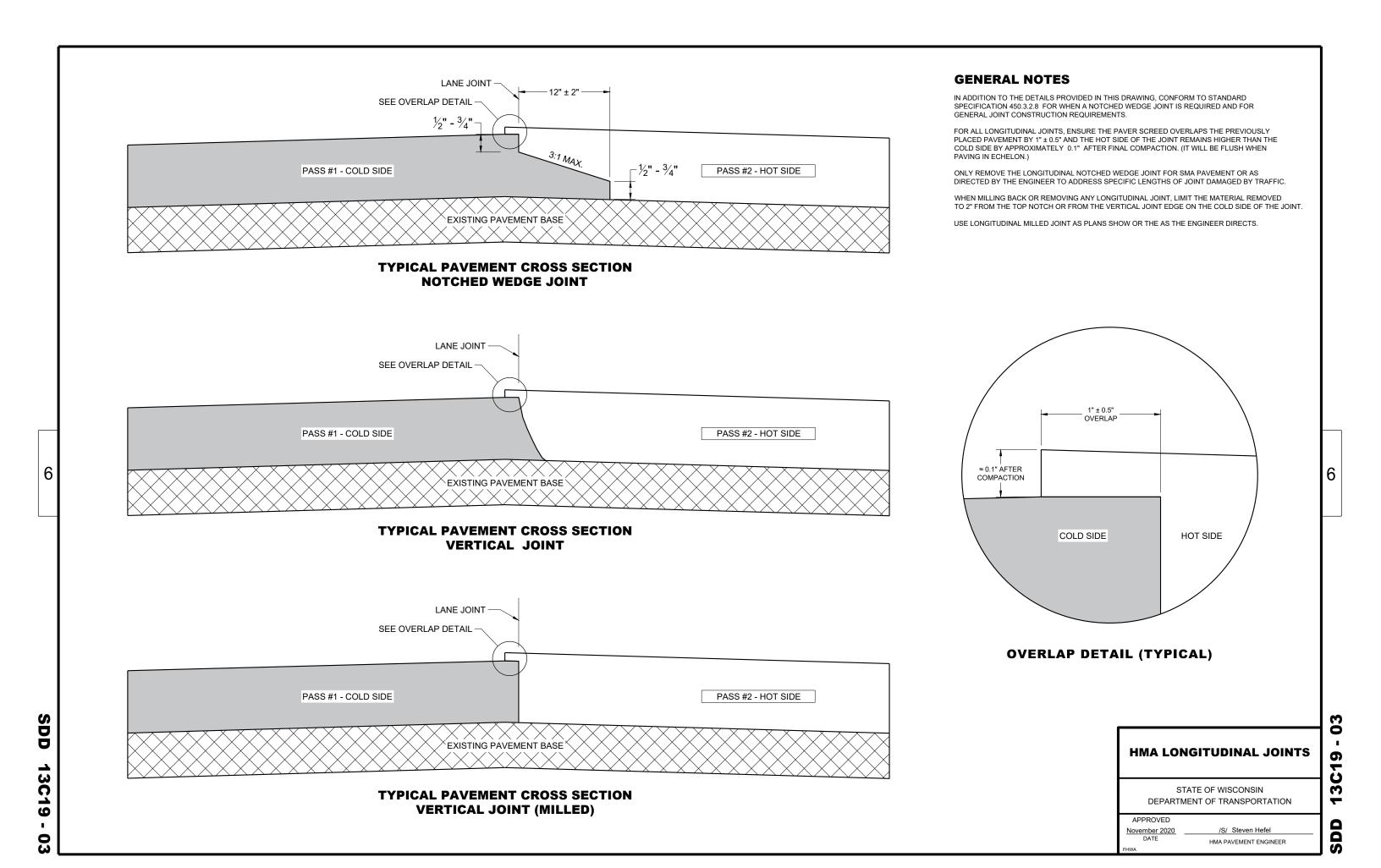
PLAN VIEW SINGLE LANE CONCRETE BASE PATCH **GREATER THAN 15' LENGTH**

BASE PATCHING CONCRETE

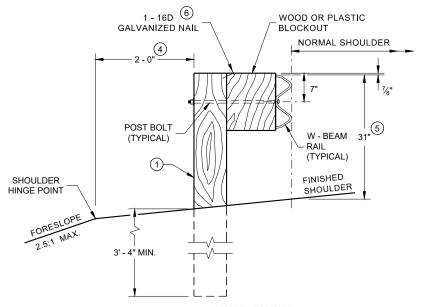
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED March 2018 DATE

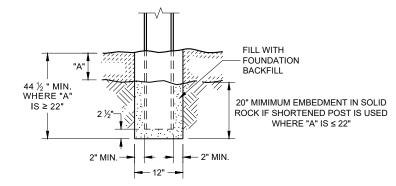
/S/ Peter Kemp, P.E PAVEMENT SUPERVISOR



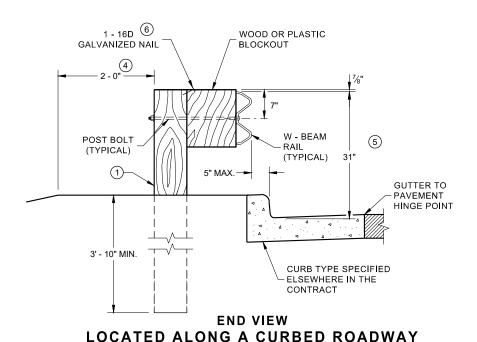
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES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

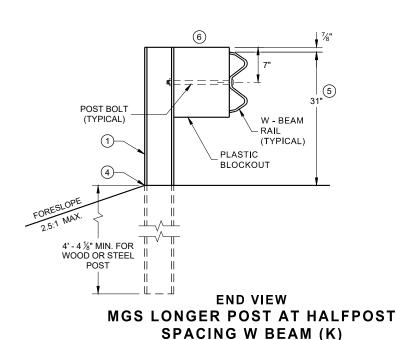


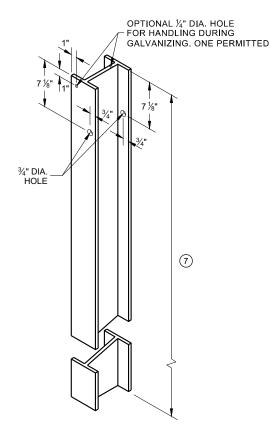
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



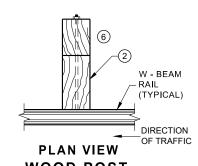
SETTING STEEL OR WOOD POST IN ROCK



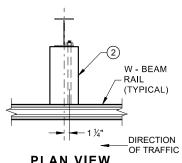




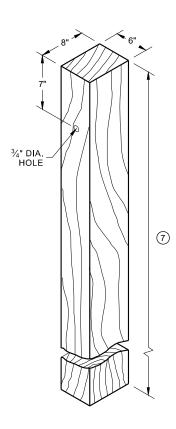
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



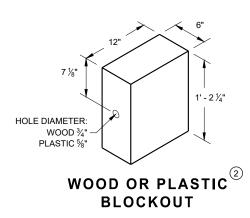
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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

6' 3" C - C

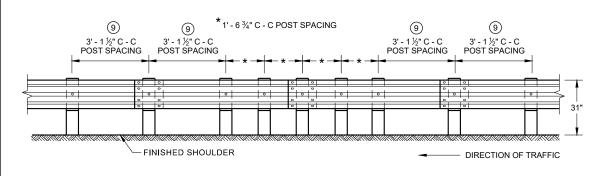
POST SPACING

DIRECTION OF TRAFFIC

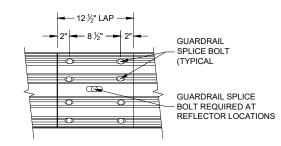
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW
QUARTER POST SPACING (QS)



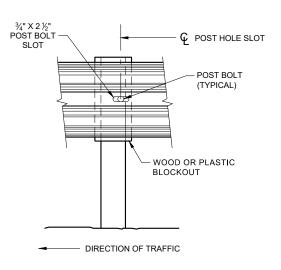
FRONT VIEW
MID-SPAN BEAM SPLICE

GENERAL NOTES

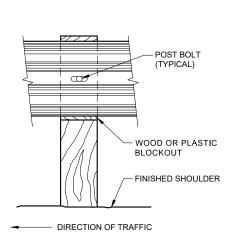
- 8 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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

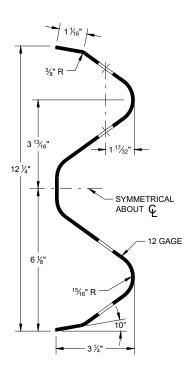
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



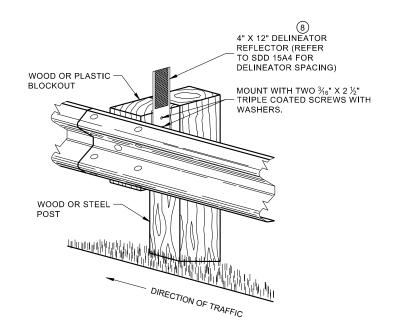
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

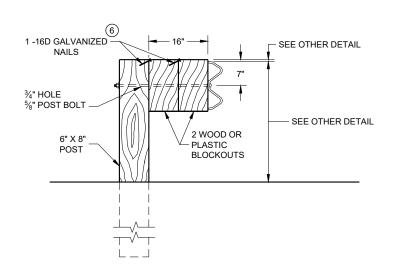
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SDD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

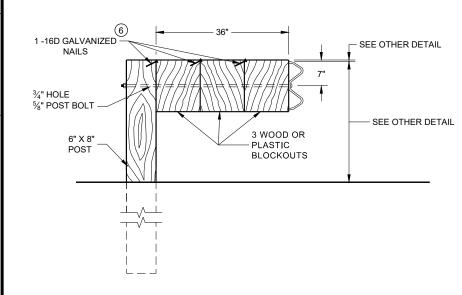
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6



DETAIL FOR 16" BLOCKOUT DEPTH

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



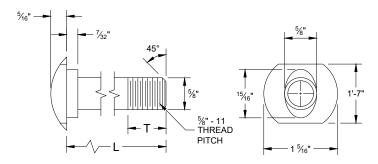
DETAIL FOR 36" BLOCKOUT DEPTH

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

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

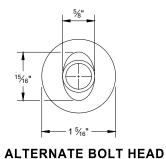
NOTE:

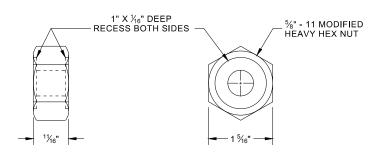
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

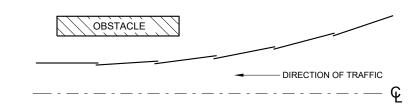
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



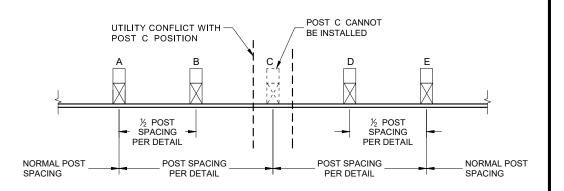


POST BOLT, SPLICE BOLT **AND RECESS NUT**

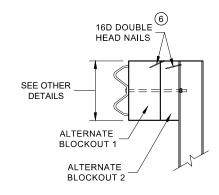
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

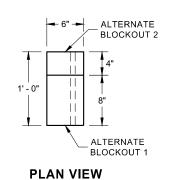


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

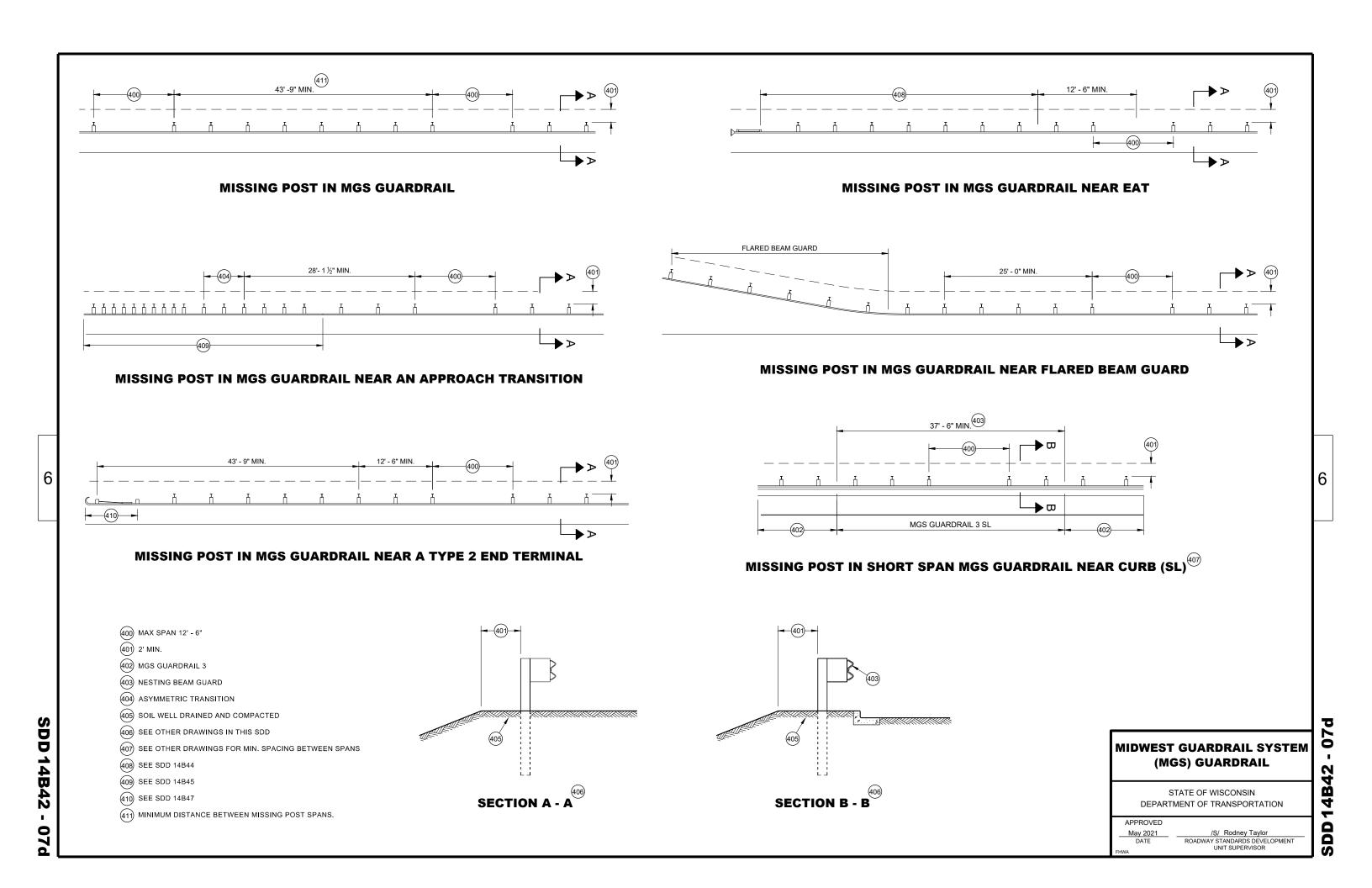
ALTERNATE WOOD BLOCKOUT DETAIL

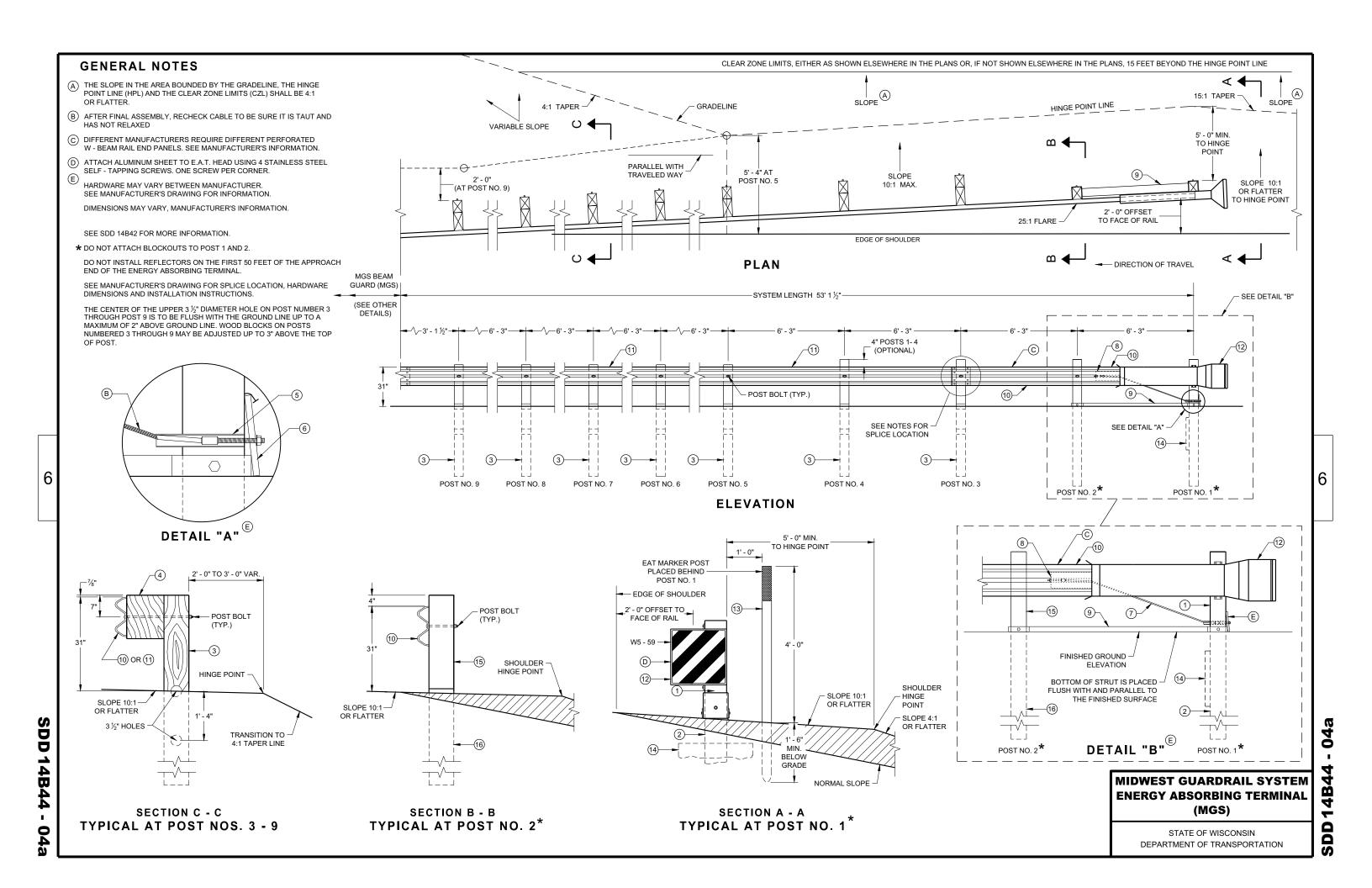
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

07

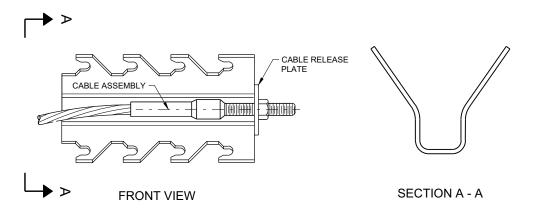
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

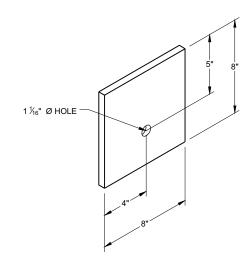




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX ^{(9) (E)}



BEARING PLATE

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

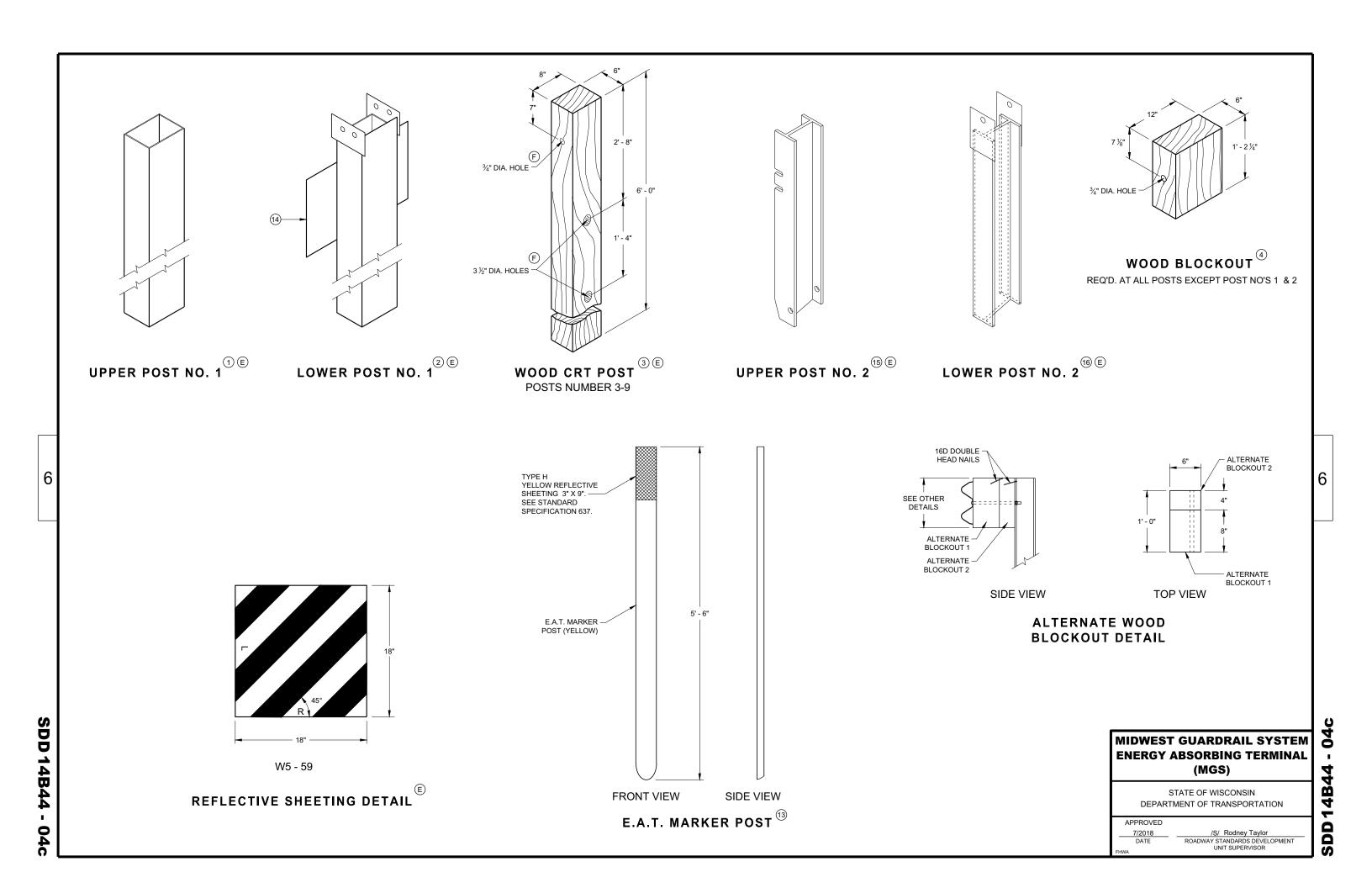
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

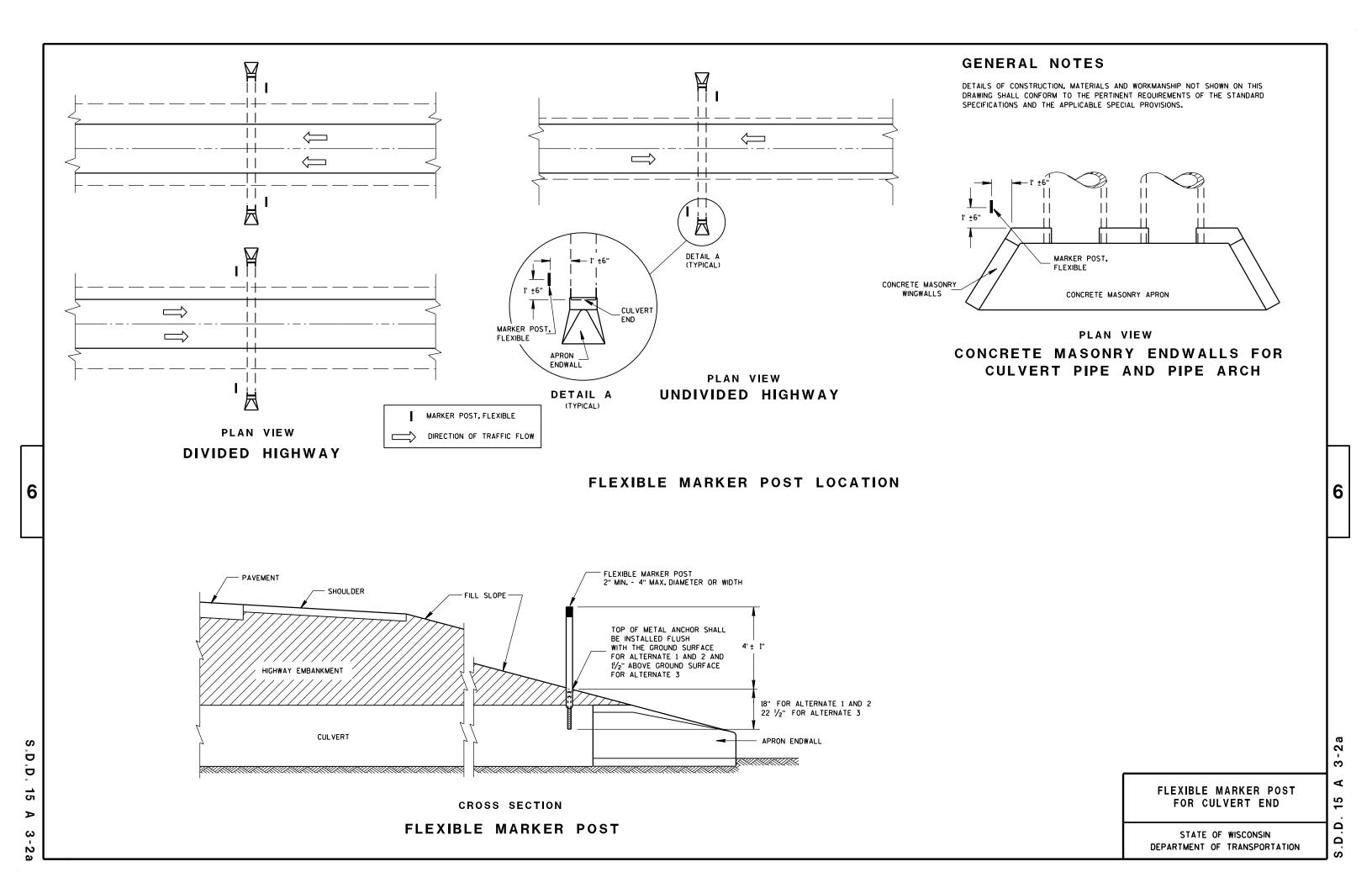
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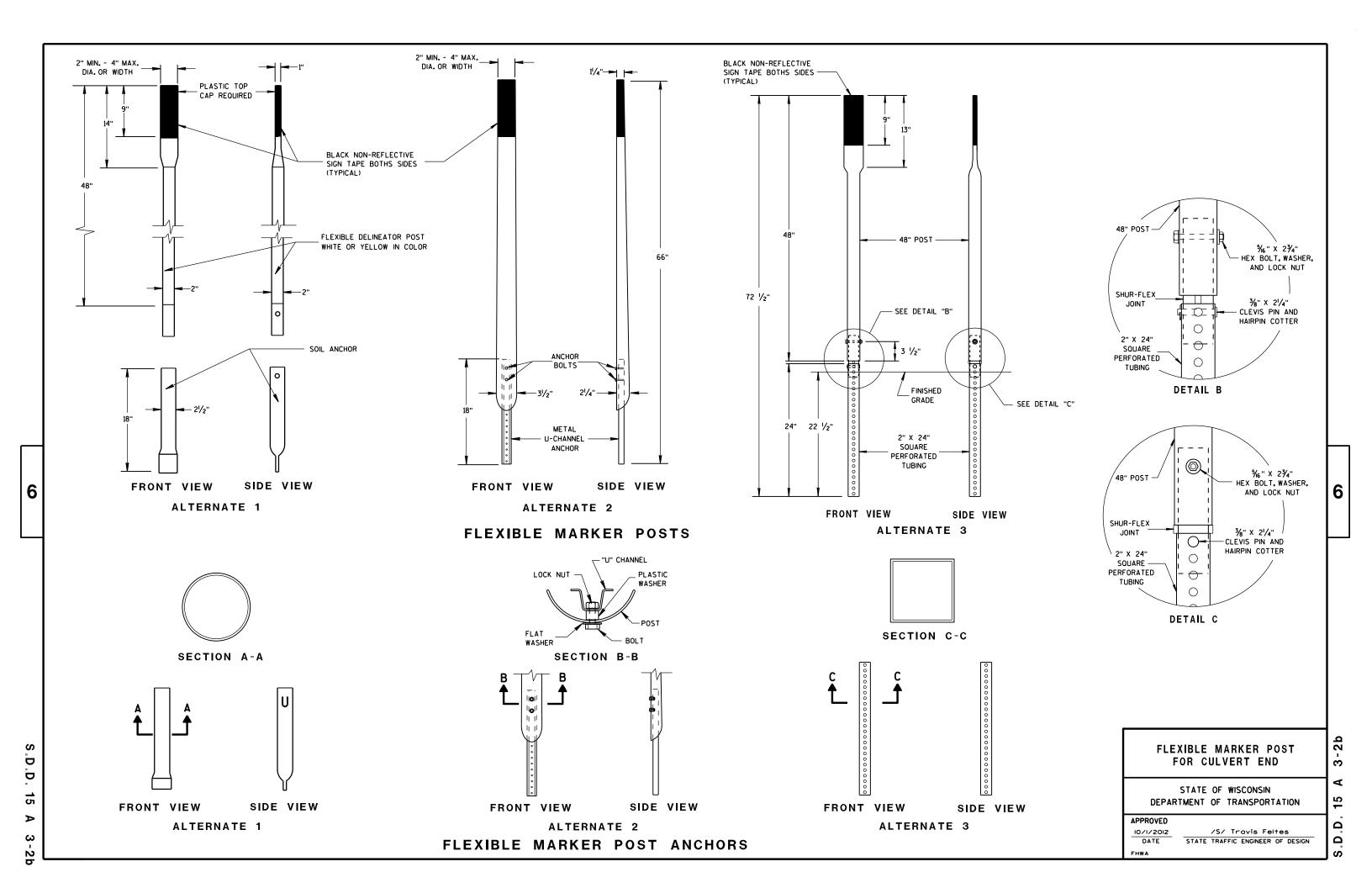
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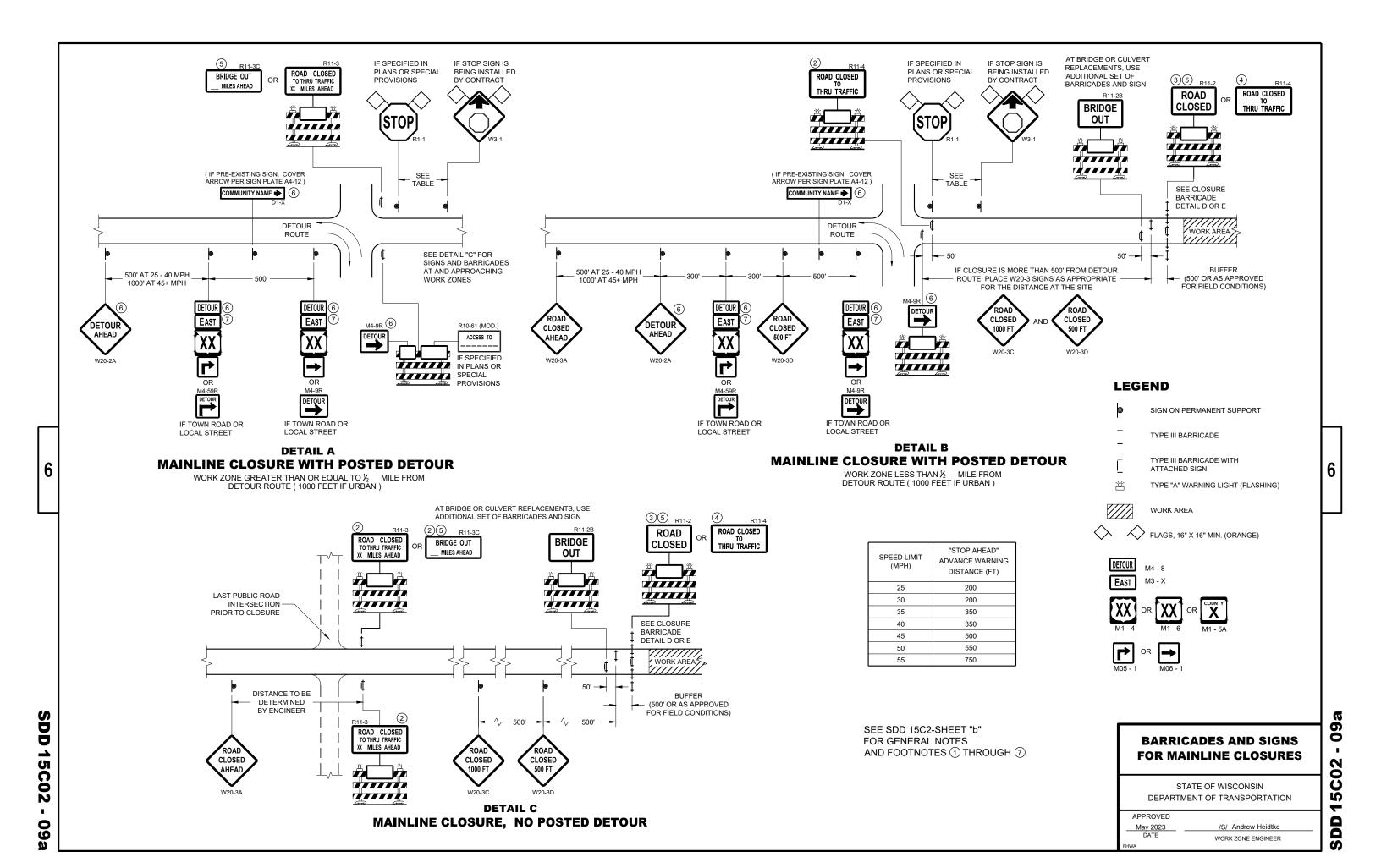
SDD

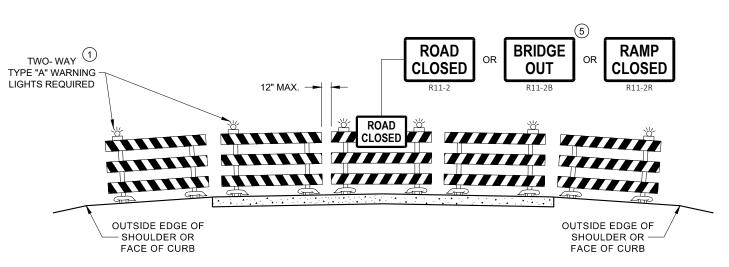
SDD 14B44 - 04



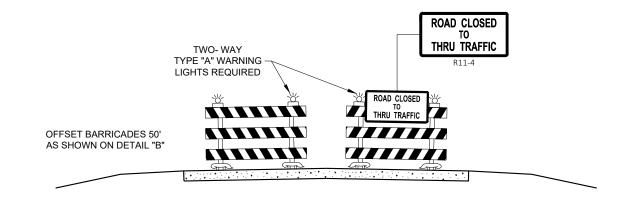








DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



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

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

THE R11 - 2. R11 - 3. M4 - 9. R11 - 4. AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

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

R1 - 1 SHALL BE 36" X 36"

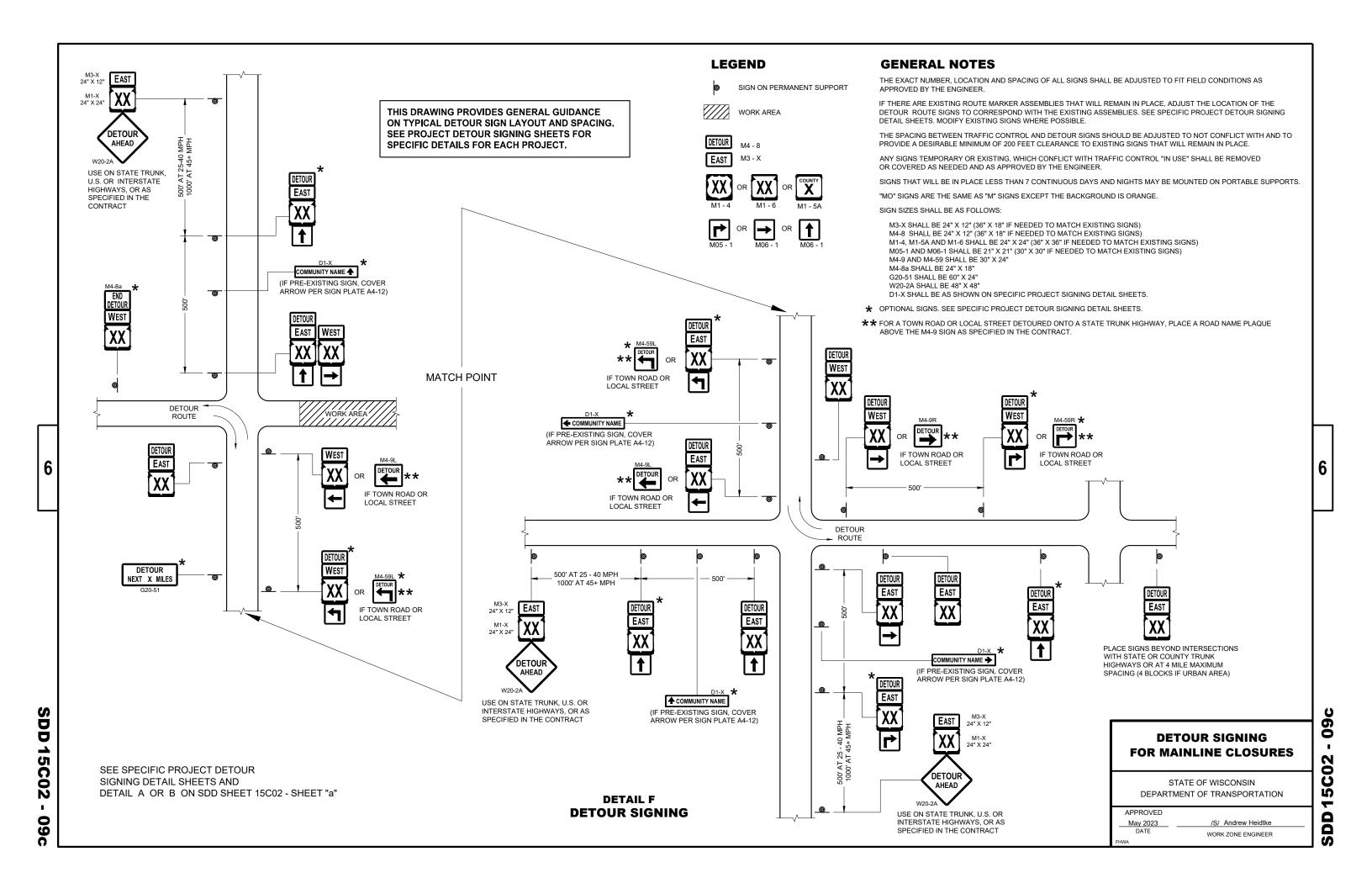
- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

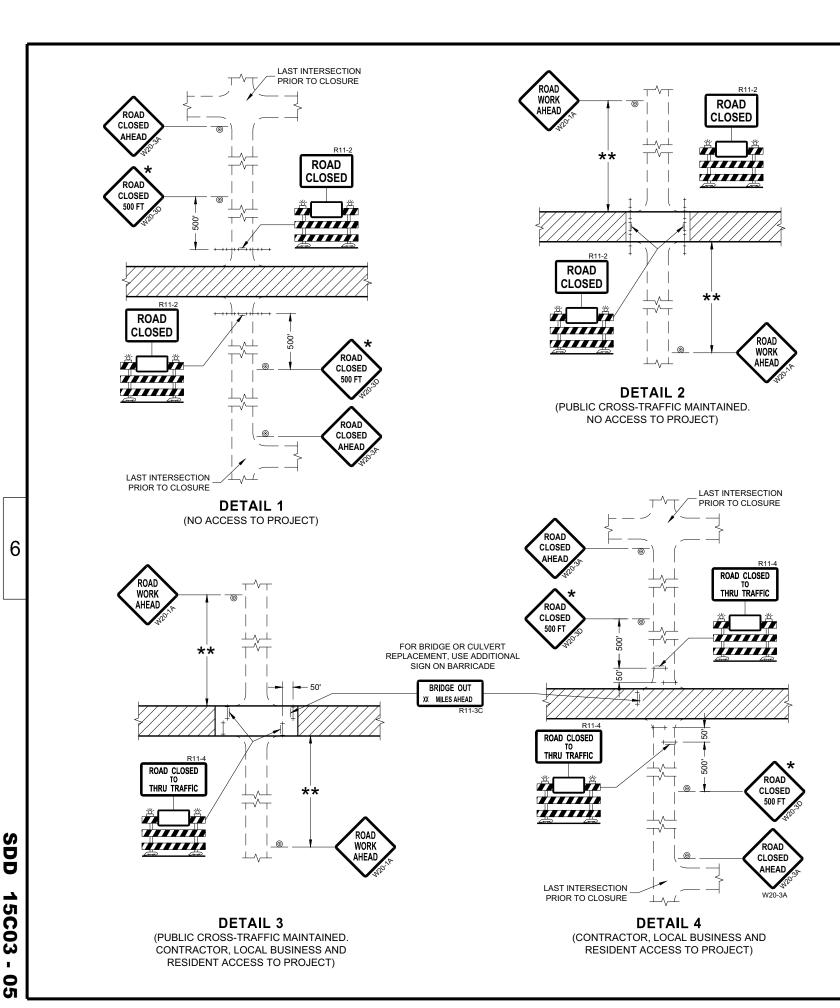
BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE WORK ZONE ENGINEER

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GENERAL NOTES

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

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 (500 FEET DESIRABLE) 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 REESTABLISHED.

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

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN 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 FEET OR LESS FROM THE WORK ZONE.
- ** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

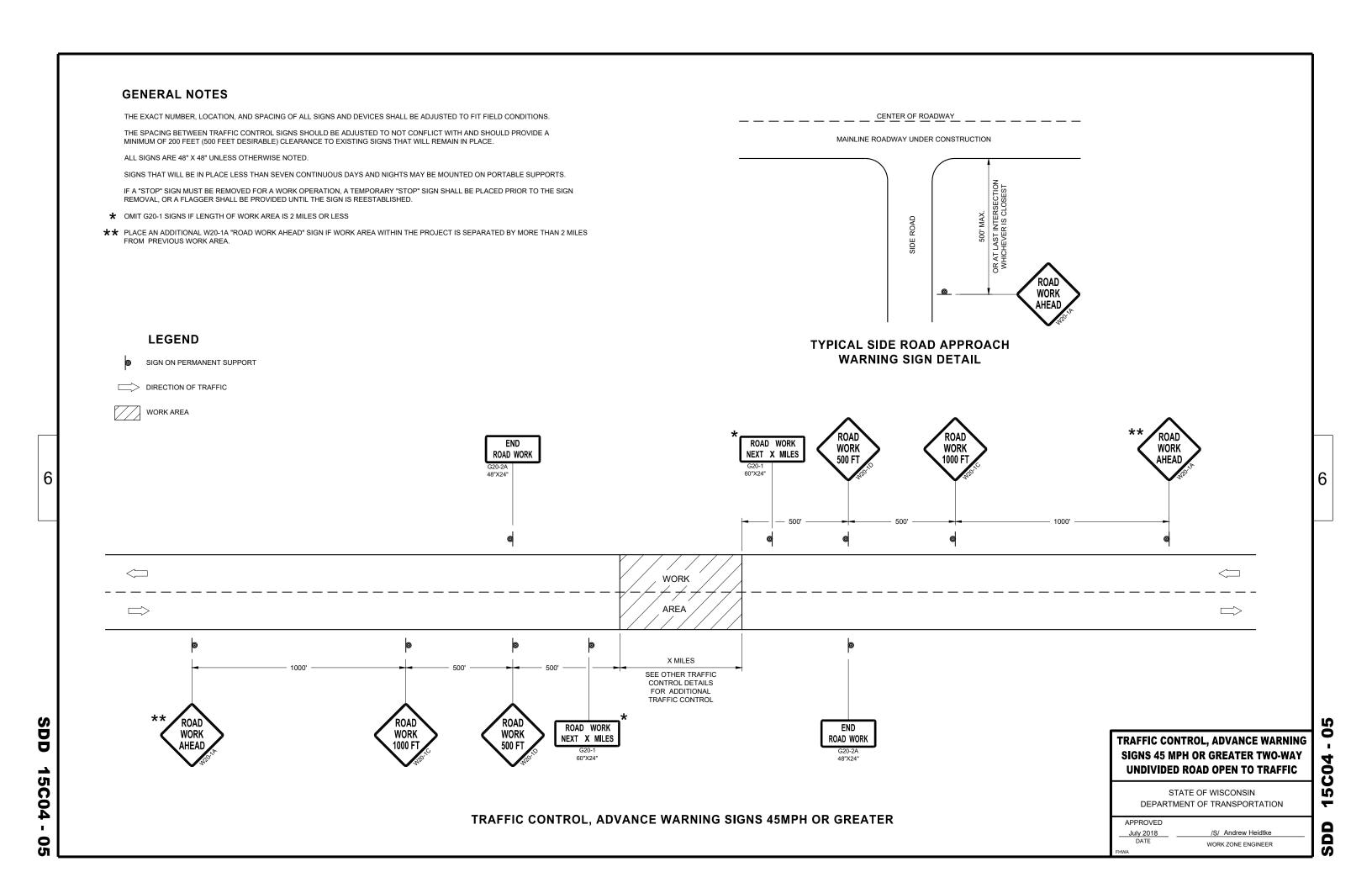
WORK AREA

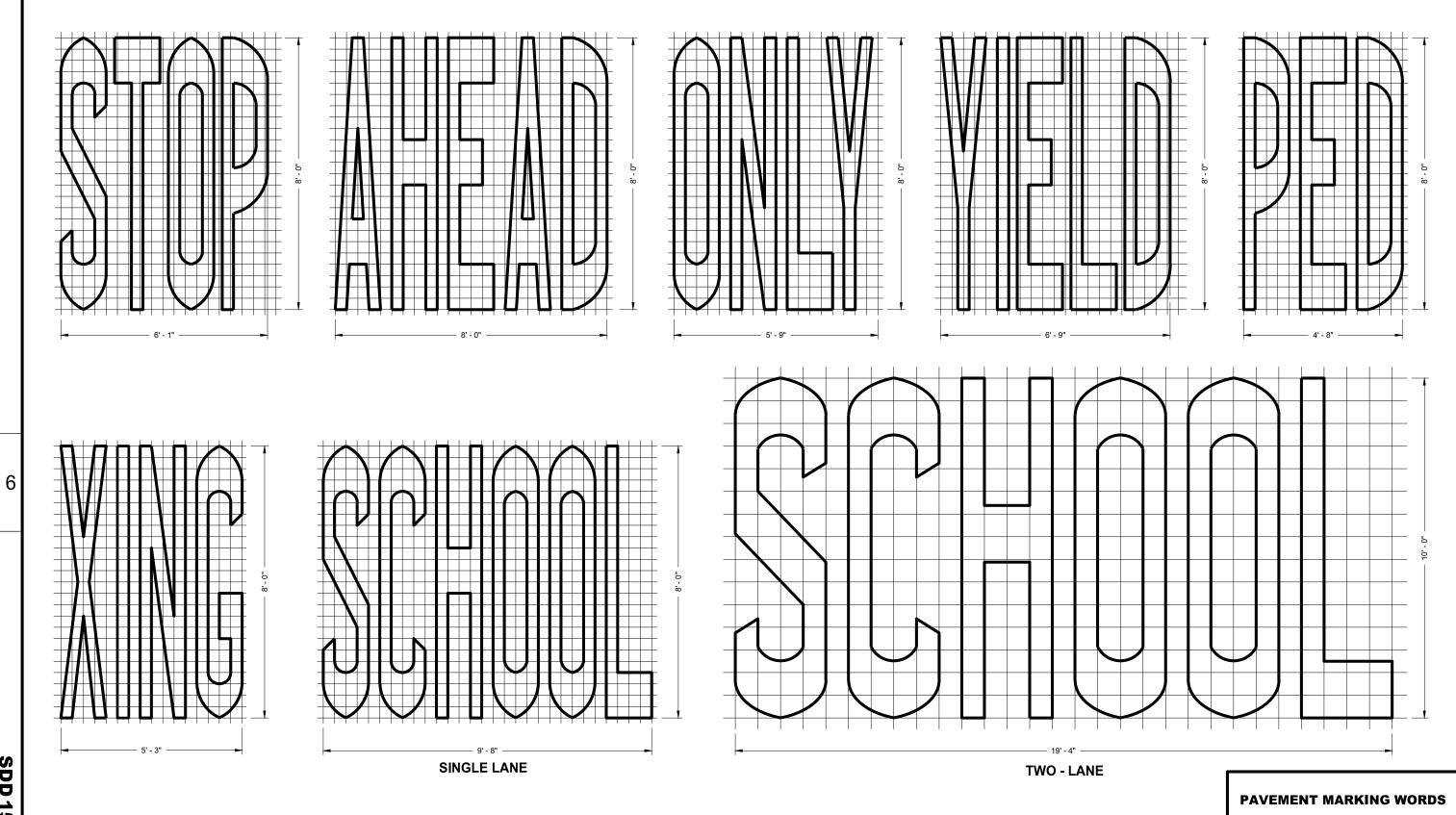
BARRICADES AND SIGNS FOR **SIDEROAD CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED July 2018 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER ŭ

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SDD 15C07 - 15b

GENERAL NOTES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

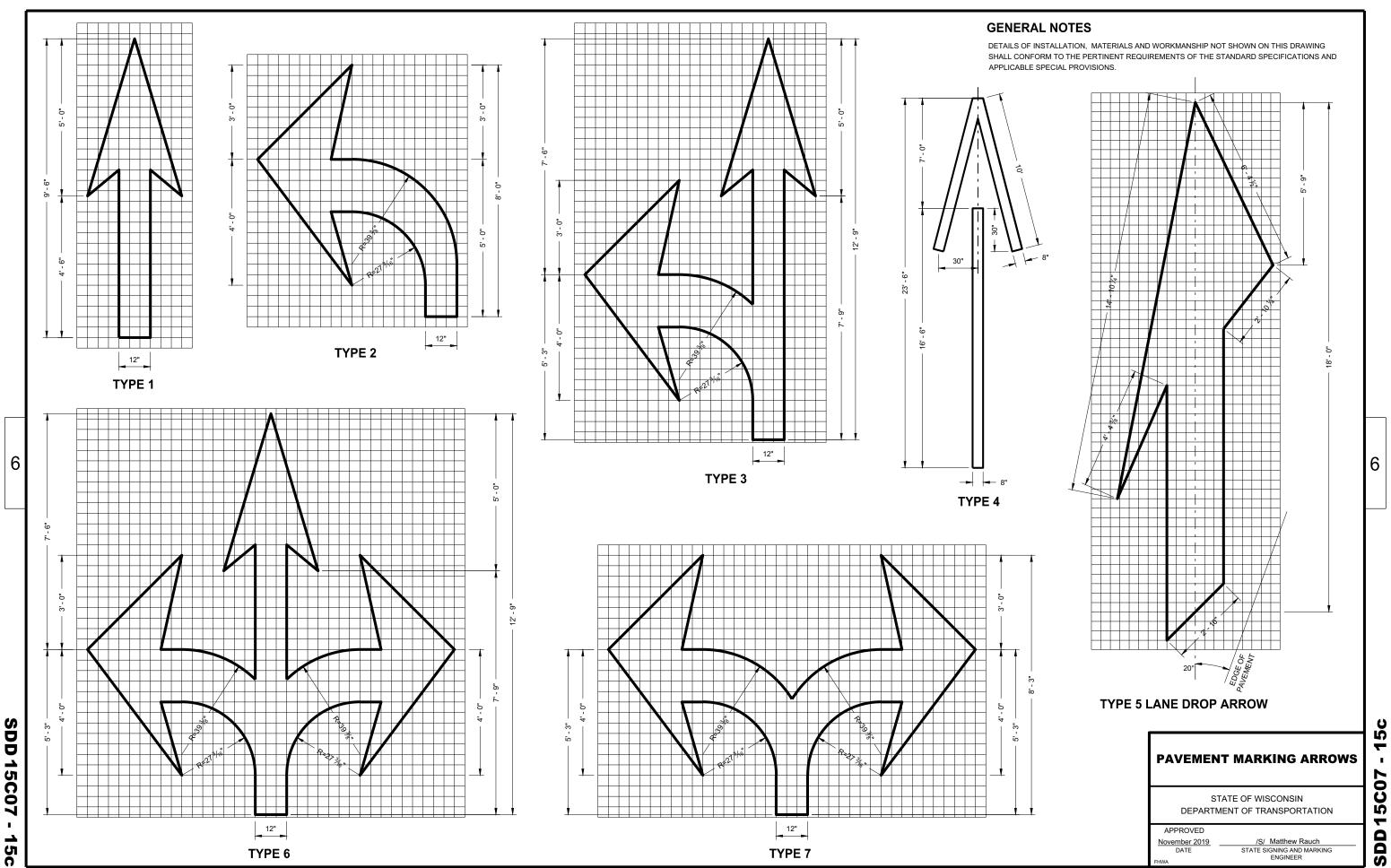
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SDD15C07

APPROVED

November 2019 /S/ Matthew Rauch
DATE STATE SIGNING AND MARKING
ENGINEER



TYPE 7

TYPE 6

SDD

GENERAL NOTES

- 1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- (2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

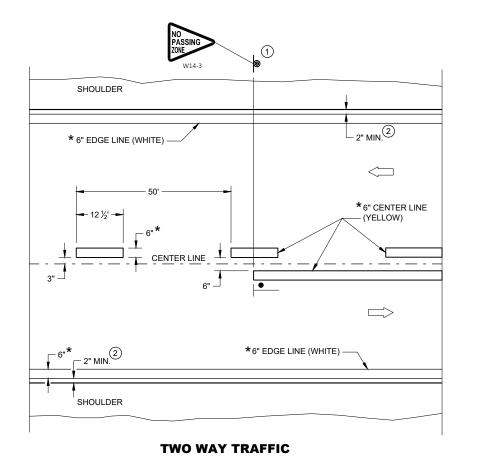
LEGEND

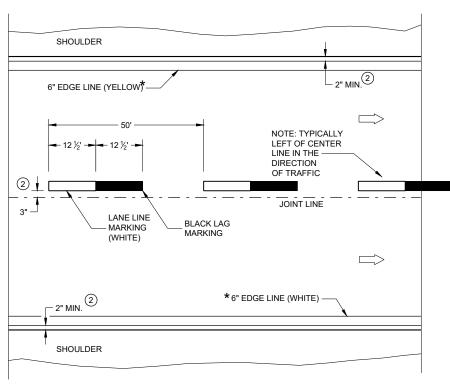
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES





ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

C08-2

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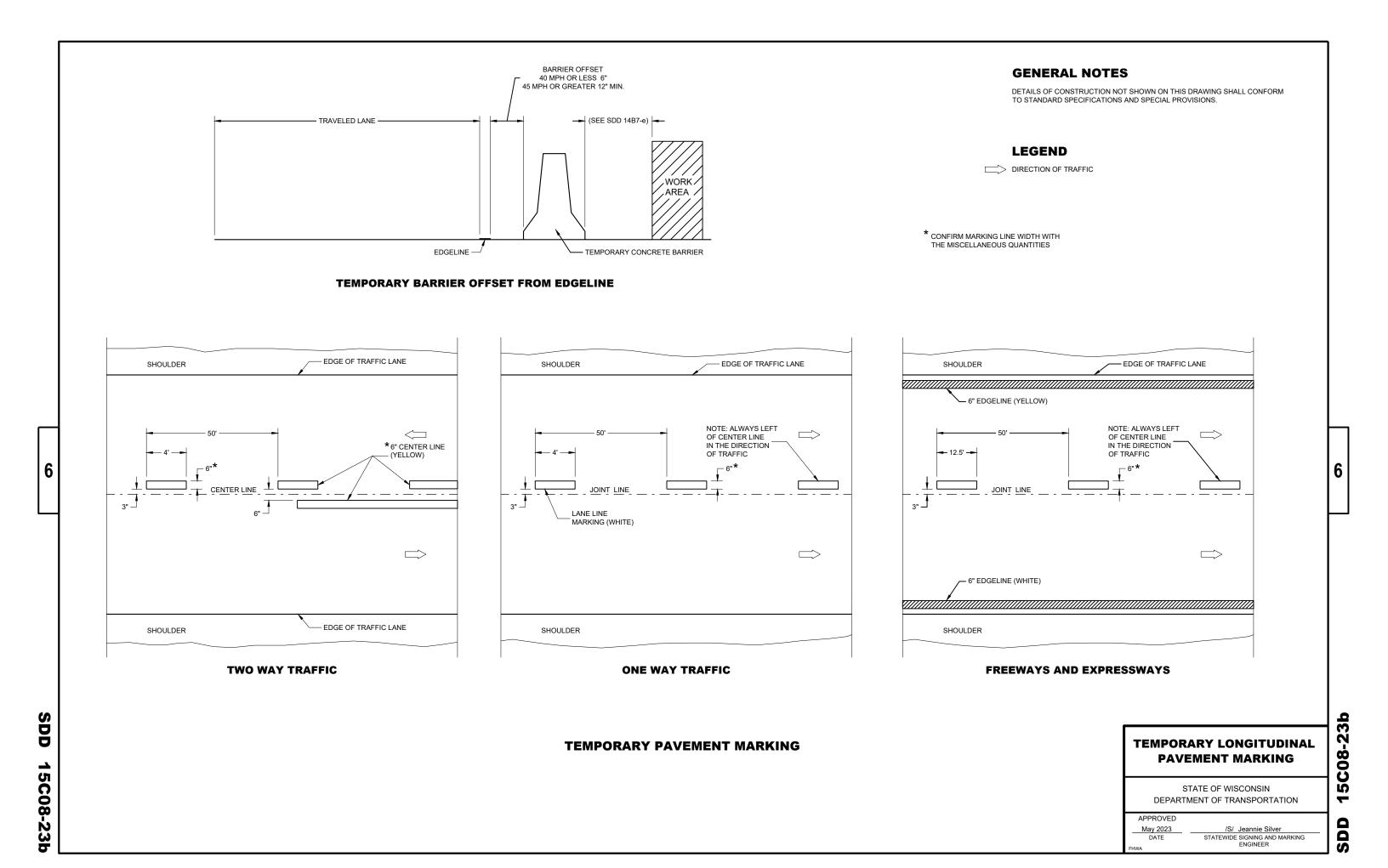
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

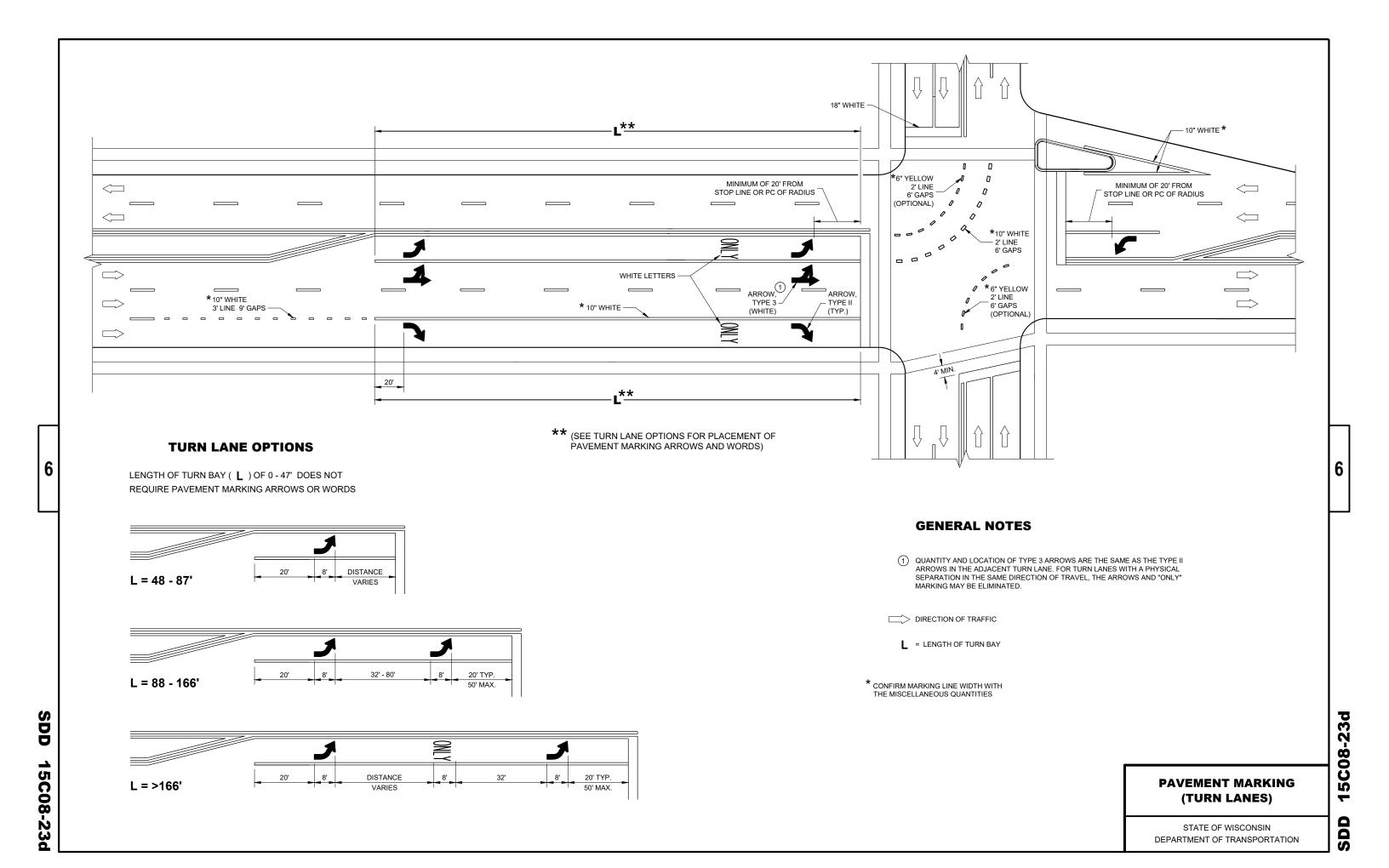
May 2023

DATE /S/ Jeannie Silver
STATEWIDE SIGNING AND MARKING
ENGINEER

6



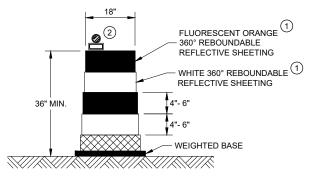
DEPARTMENT OF TRANSPORTATION



SDD 15C11

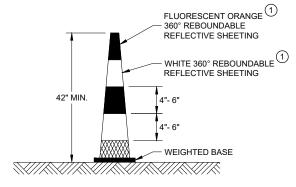
GENERAL NOTES

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



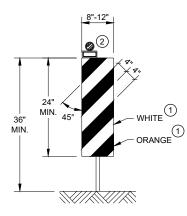
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



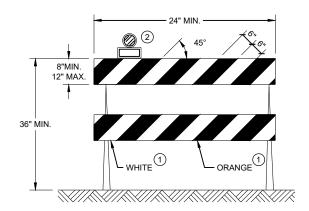
42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



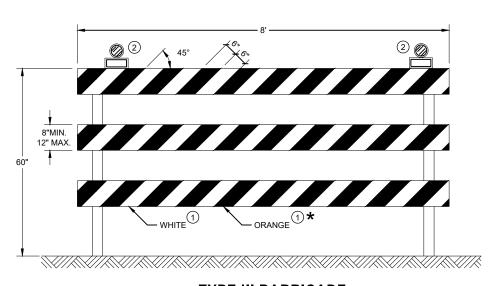
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

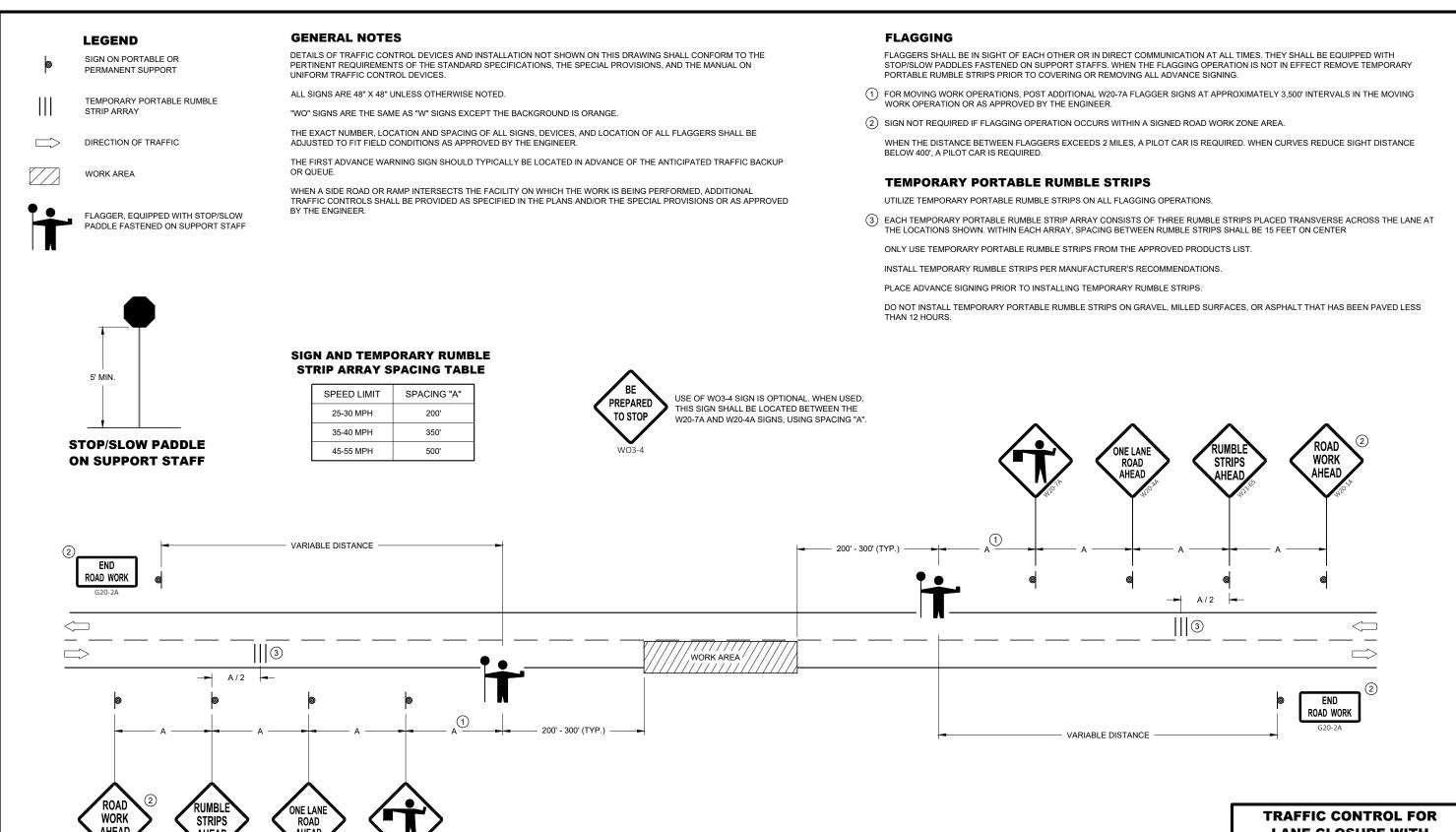
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

APPROVED	
November 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER



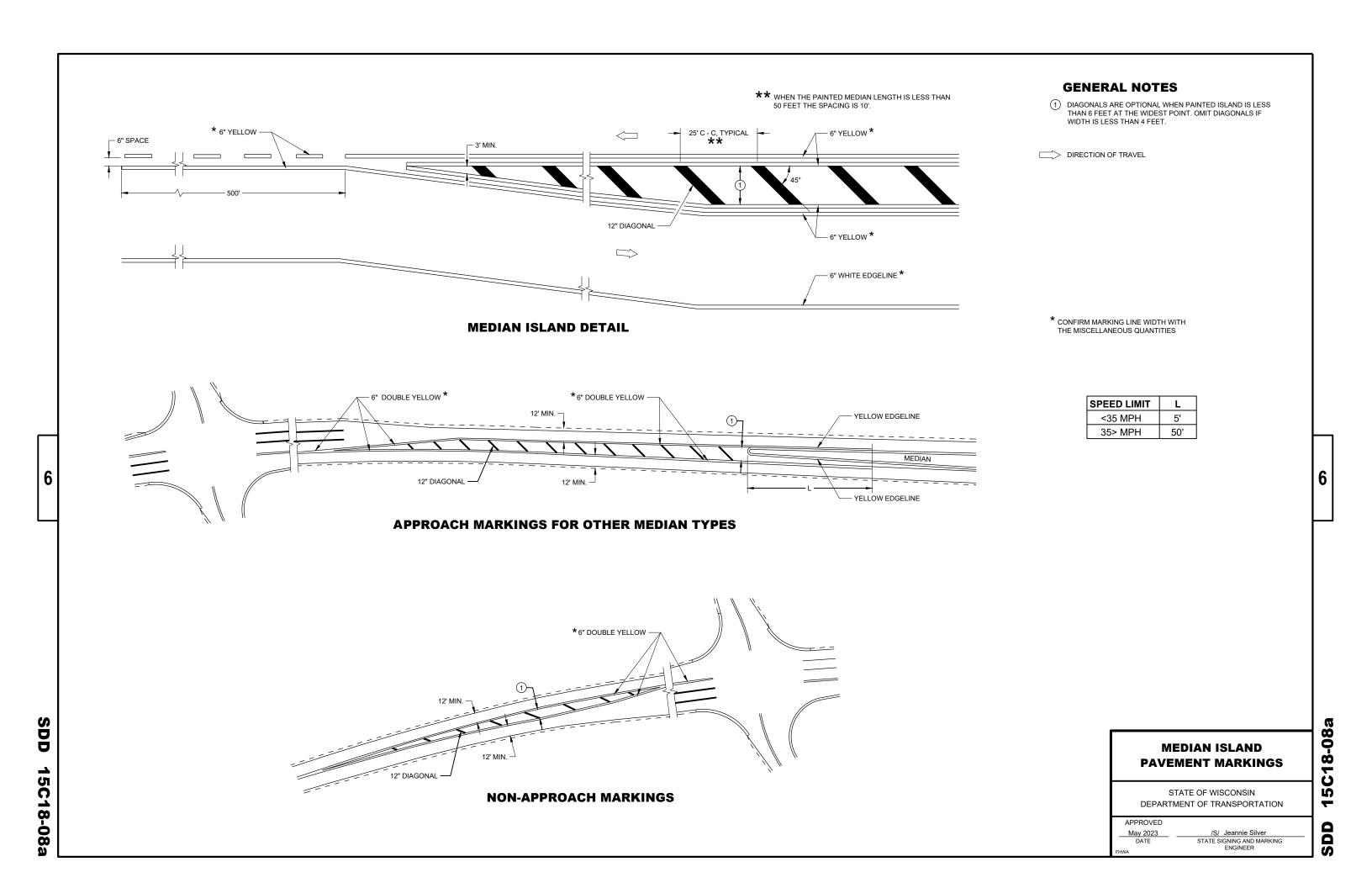
LANE CLOSURE WITH **FLAGGING OPERATION** 0

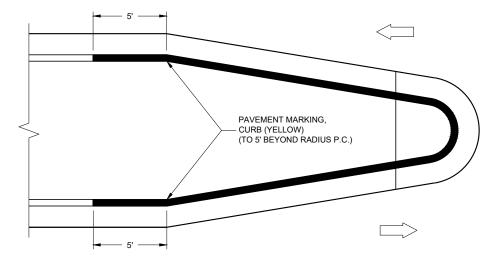
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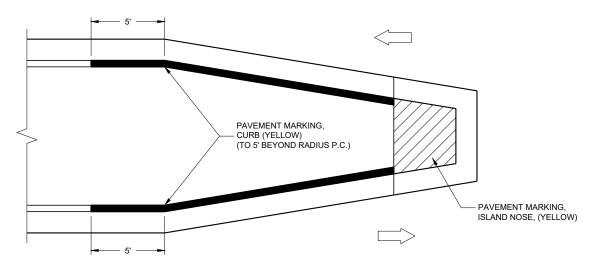
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2022 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER





MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

CURB MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS, MEDIAN ISLAND NOSE C18-08

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

 APPROVED
 May 2023
 /S/ Jeannie Silver

 DATE
 STATE SIGNING AND MARKING ENGINEER

SDD 15C18-08b

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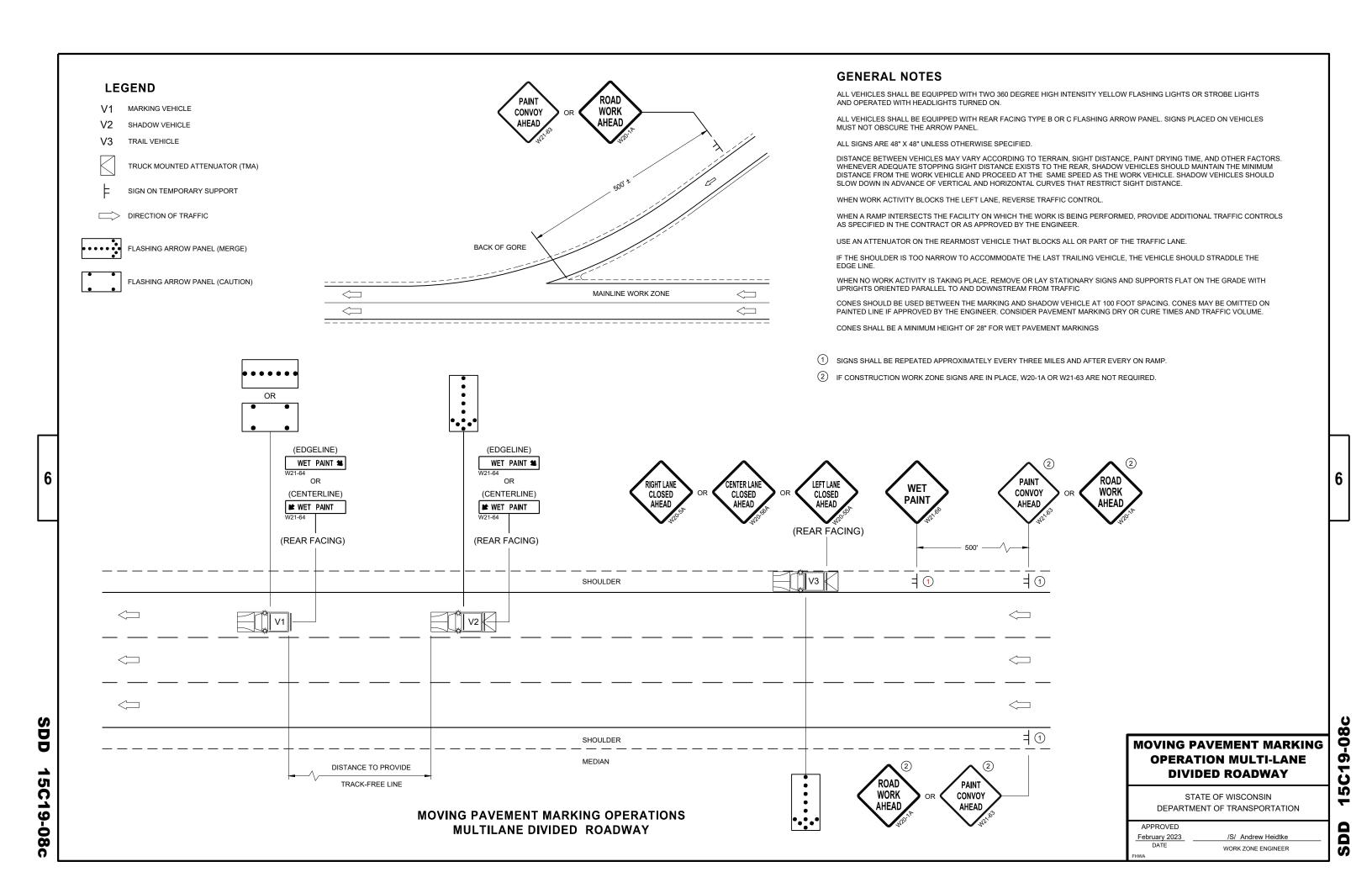
0-6

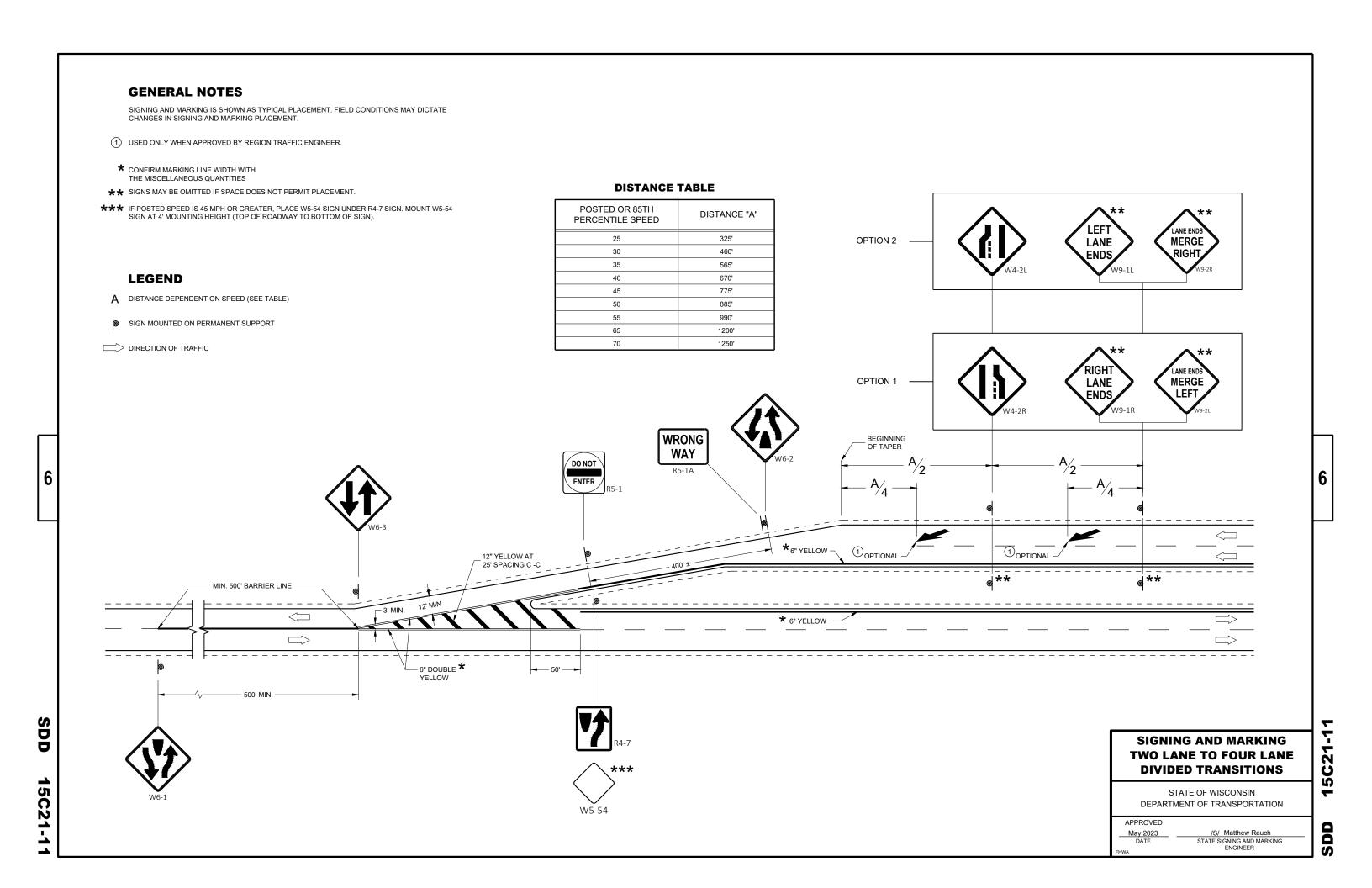
Ŋ

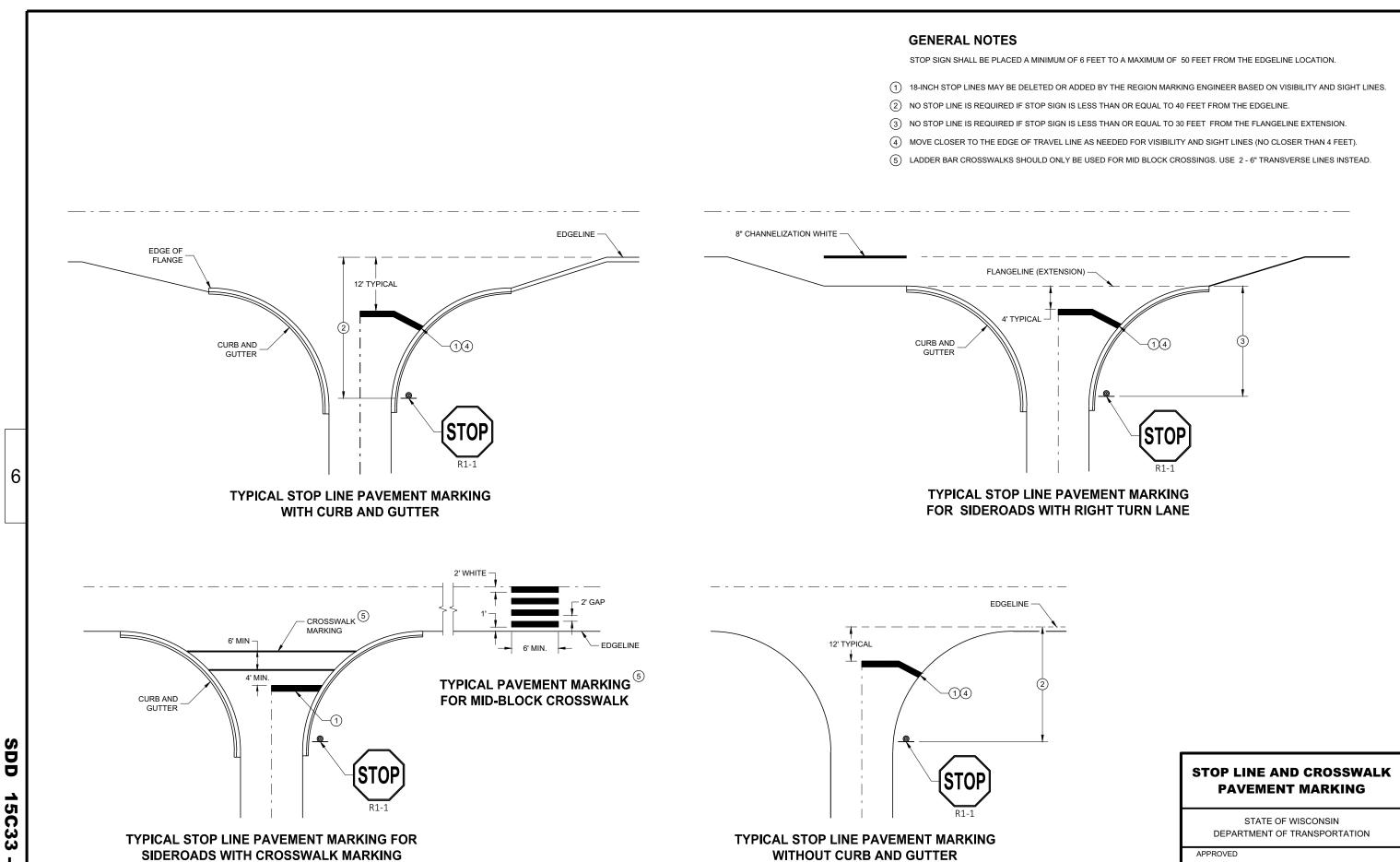
 $\boldsymbol{\mathsf{T}}$

S

 $\boldsymbol{\mathsf{T}}$







C33 15 SDD

/S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

November 2019 DATE

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

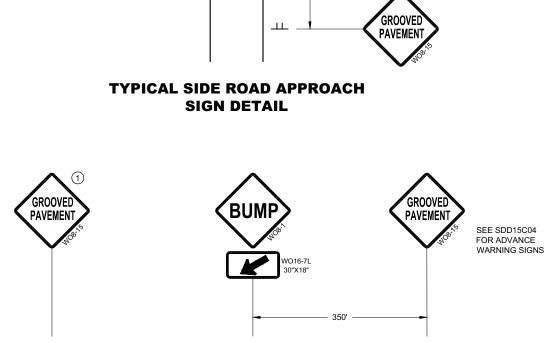
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE

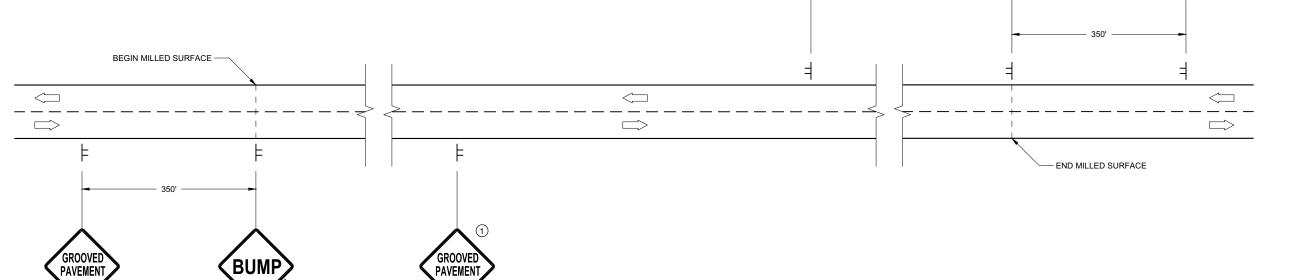
ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

- (1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
- (2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

DIRECTION OF TRAFFIC





SEE SDD15C04 FOR ADVANCE WARNING SIGNS

DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, **SIGNING ON ROADWAYS WITH MILLED SURFACES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER Ò S

V2

SHADOW VEHICLE TRUCK MOUNTED ATTENUATOR (TMA)

FLASHING ARROW PANEL (CAUTION)

WORK AREA

DIRECTION OF TRAFFIC

POSTED SPEED PRIOR TO WORK STARTING (MPH)	DECISION SIGHT DISTANCE (D)
0 - 25	550'
30	550'
35	700'
40	700'
45	900'
50	900'
55	1200'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

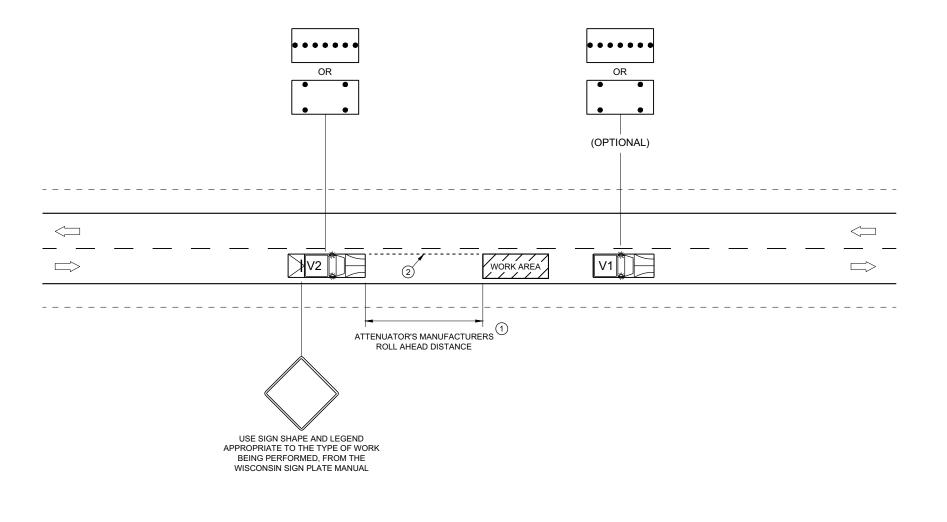
MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL ARROW PANELS SHALL BE REAR FACING, TYPE "B" OR "C", AND DISPLAYING THE FLASHING CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF

- DISTANCE BETWEEN VEHICLES MAY INCREASE FROM THE ATTENUATOR'S ROLL AHEAD BASED ON TERRAIN, SIGHT DISTANCE, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- 2) ALIGN LEFT SIDE OF SHADOW VEHICLE WITH EDGE OF WORK AREA.



TRAFFIC CONTROL, **MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY**

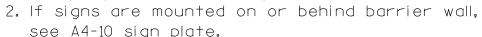
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021 DATE

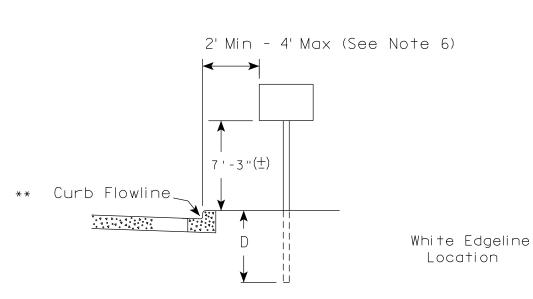
/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

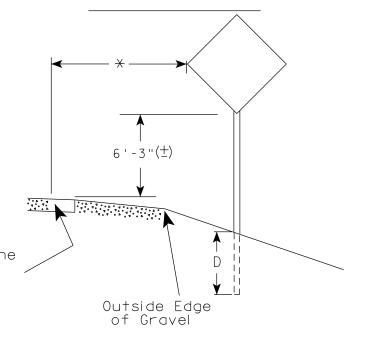
51 S



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52). Mile Markers (D10 series). In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' ($\frac{+}{-}$).

- 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 signs mounted on traffic signal poles is $5' - 3'' \stackrel{(\pm)}{-}$.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (+) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.





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

5'-3"(士) White Edgeline $D \parallel$ Location Outside Edge of Gravel

** 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.

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

APPROVED For State Traffic Engineer

DATE 5/13/2020 PLATE NO. __A4-3.22

SHEET NO:

Ε

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.dgn COUNTY:

PLOT BY: mscj9h

PLOT NAME :

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

PLOT DATE: 13-MAY 2020 1:04



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

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) 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.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





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

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

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

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

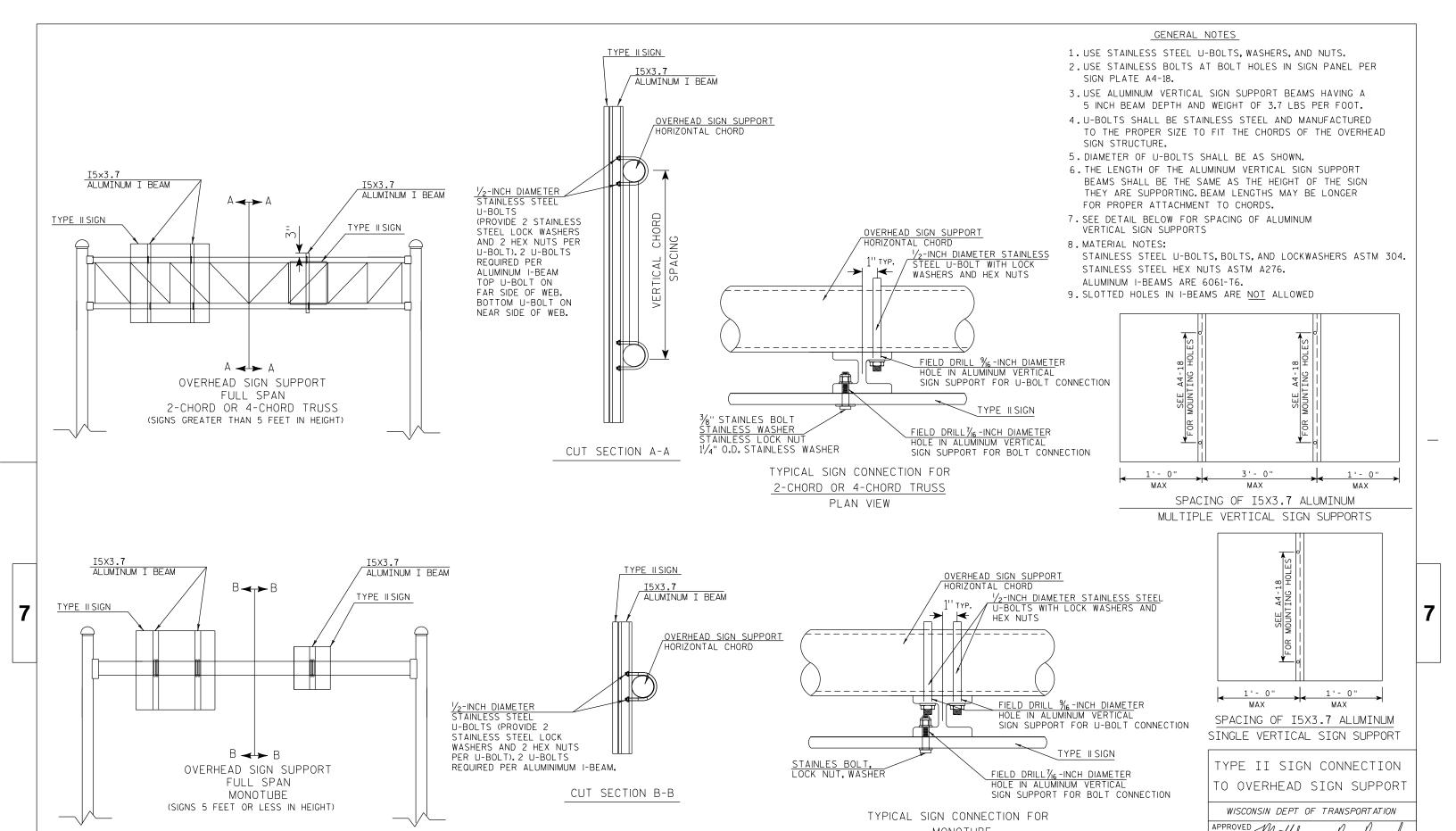
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



COUNTY:

PROJECT NO:

HWY:

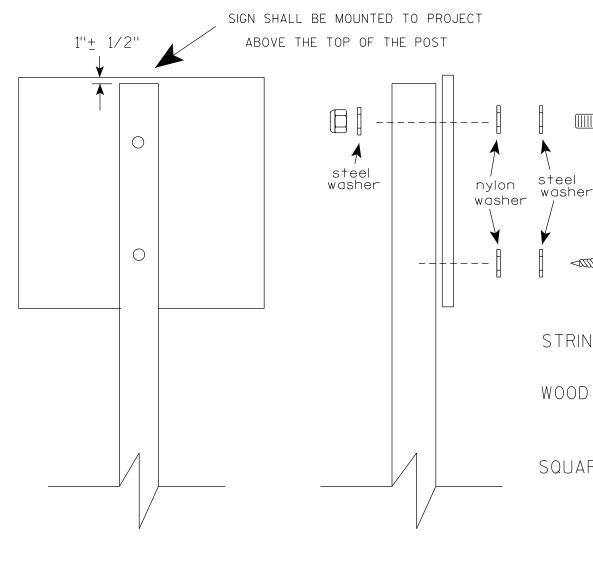
MONOTUBE PLAN VIEW

PLATE NO. <u>A4-7B.1</u>

Ε

DATE 1/07/20

SHEET NO:



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 1/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

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

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN

PROJECT NO:



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

DATE 2/05/15

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

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

CHANNEL

GENERAL NOTES

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

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

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

PROJECT NO:

VIEW FROM TOP

GENERAL NOTES

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

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

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

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Manher R

APPROVED

DATE 4/19/2022 PLATE NO. A5-10.3

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

SIGN

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

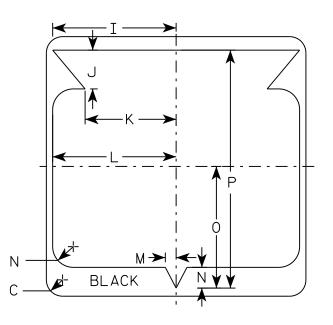
Ε

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

Background - White Message - Black

- 3. Message Series D except 3 number signs 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.

	G F A H H
A A	
M1-6	1



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

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 3/16/18

PLATE NO. <u>M1-6.10</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M16.DGN

HWY:

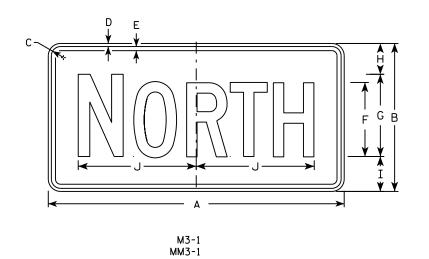
PROJECT NO:

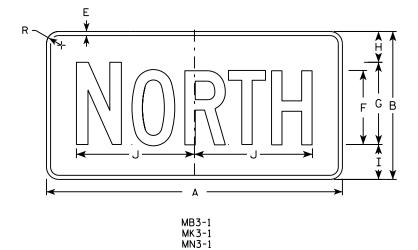
PLOT DATE: 16-MAR-2018 14:11

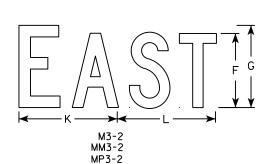
PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE : 6.655277:1.000000

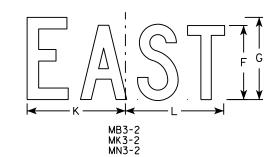
WISDOT/CADDS SHEET 42

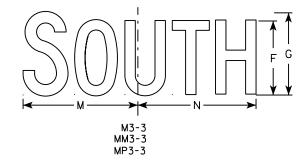


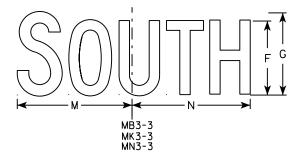


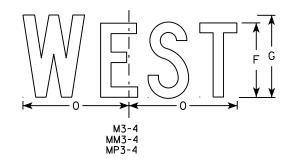


MP3-1

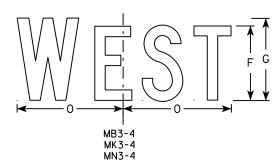








HWY:



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.

	G
	F B G G G G G G G G G G G G G G G G G G
A M4 - 8	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

For State Traffic Engineer

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

SHEET NO:

PROJECT NO:

HWY:

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.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 ¾																	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

SHEET NO:

DATE 3/9/11

PLATE NO. M4-8A.2

PLOT SCALE: 3.972696:1.000000

WISDOT/CADDS SHEET 42

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

HWY:

PROJECT NO:

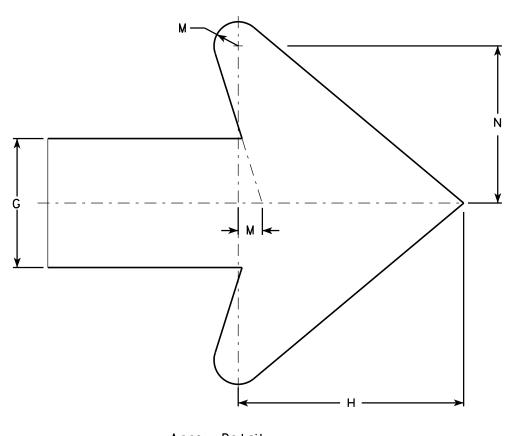
PLOT DATE: 09-MAR-2011 10:29

PLOT BY: mscj9h

- 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 D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	Α	В	С	D	Ε	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																											
2	30	24	1 1/8	3∕8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
3	30	24	1 1/8	3∕8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 %	20 %	20 1/2	13 1/4	1 1/8	6 %													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 %	20 1/2	13 1/4	1 1/8	6 %													12.0

COUNTY:

M4-9R

M4-9 R & L WISCONSIN DEPT OF TRANSPORTATION

STANDARD SIGN

APPROVED

Matthew R *for* State Traffic Engineer

PLATE NO. M4-9R.4 DATE 3/9/11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M49R.DCN

PROJECT NO:

HWY:

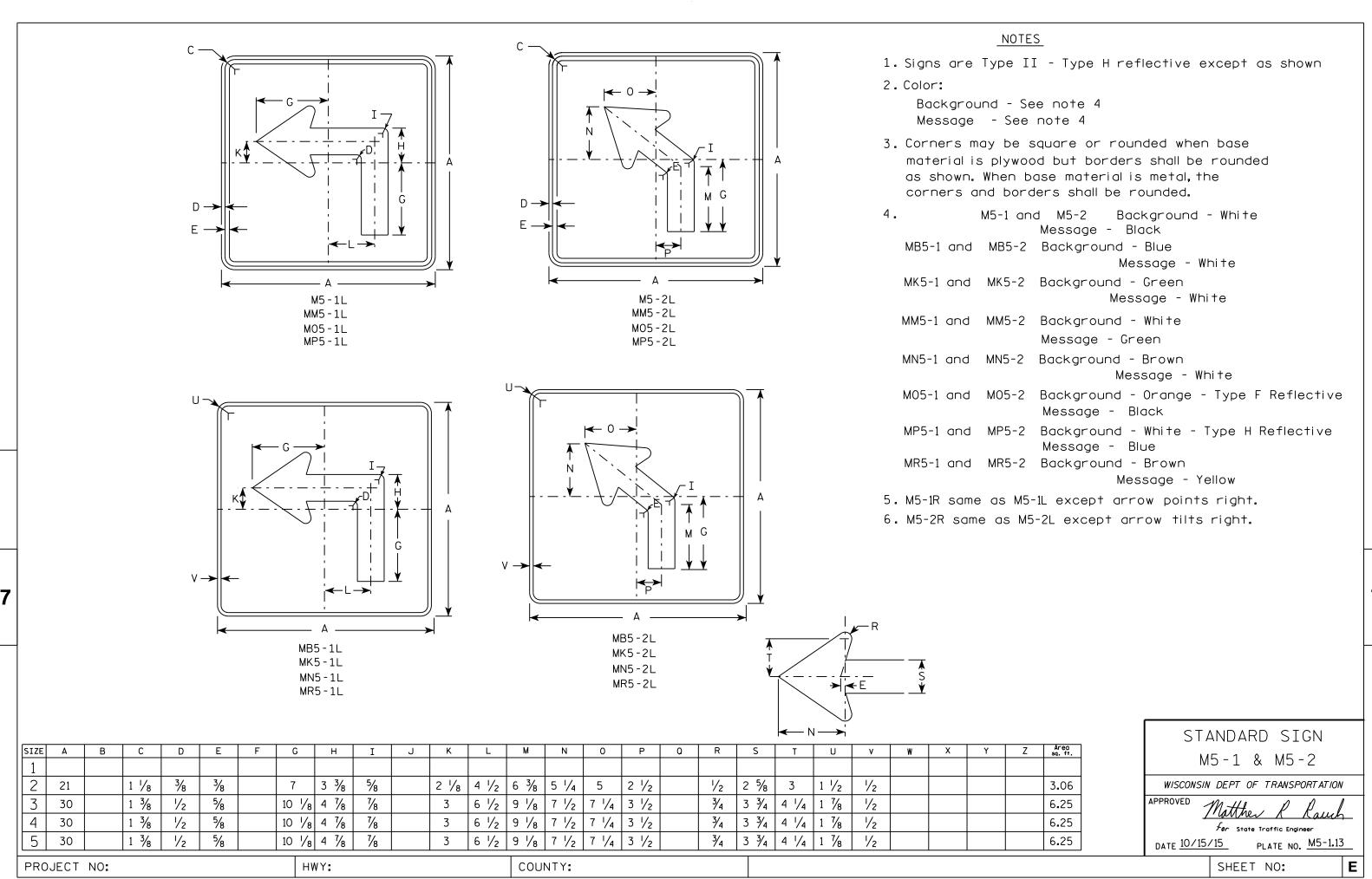
PLOT DATE: 09-MAR-2011 11:17

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42

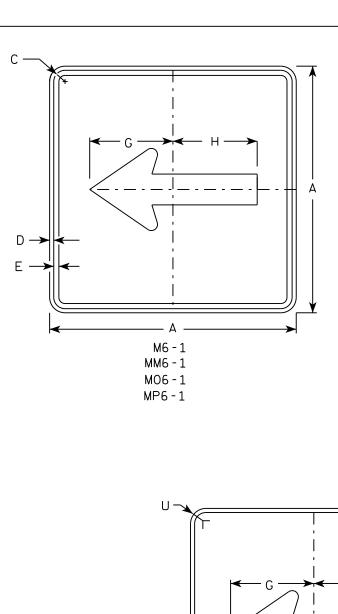


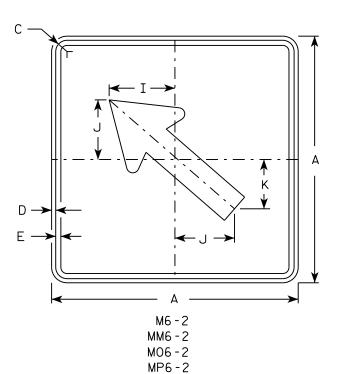
FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

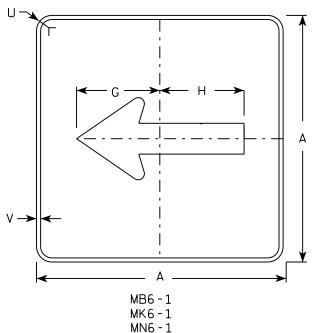
PLOT DATE . 01-DEC-2015 18:07

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

PLOT SCALE . 11 675051.1 000000

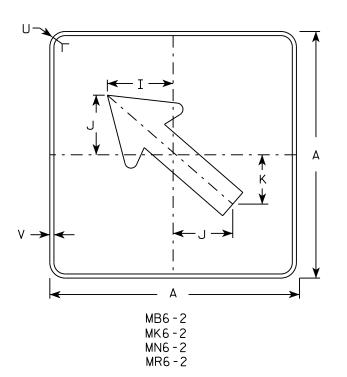






MR6-1

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

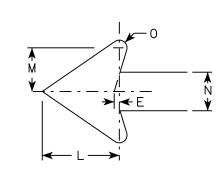
Message - Black

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:

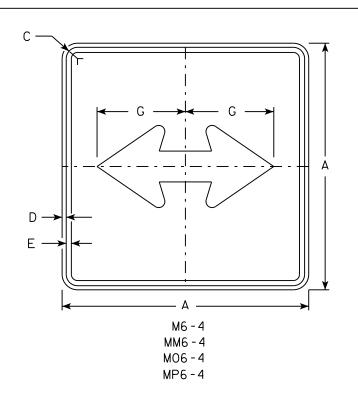
FILE NAME · C·\CAFfiles\Projects\tr stdplote\M61 DCN

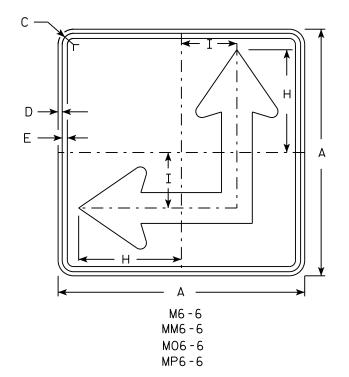
PROJECT NO:

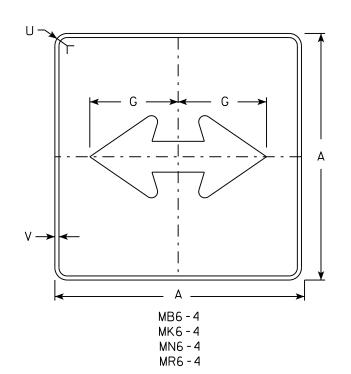
PLOT DATE . 01-DEC-2015 17:57

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

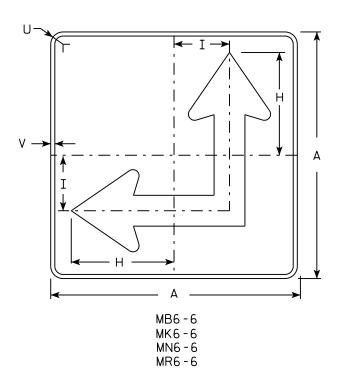
PLOT SCALE . 11 675051.1 000000







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

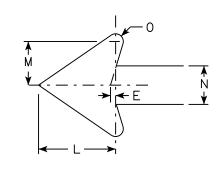
MP6-4 and MP6-6 Background - White

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

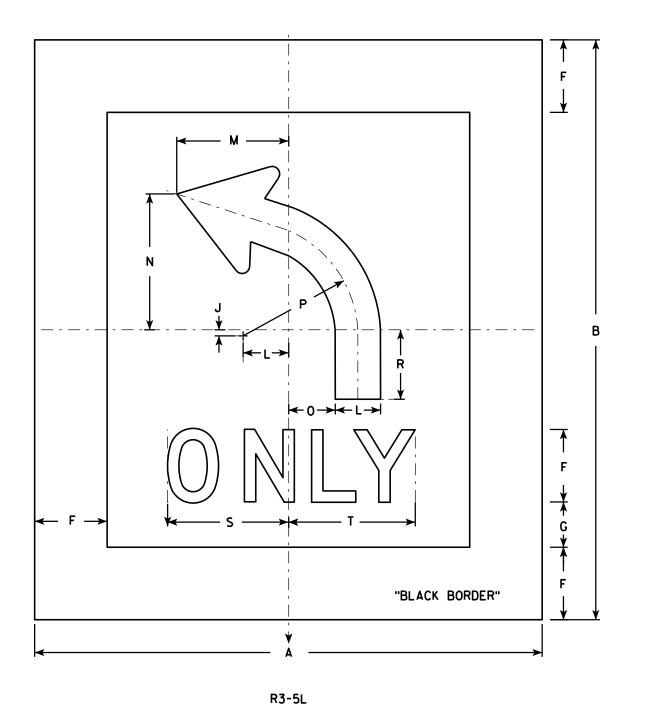
PLATE NO. M6-4.10 Ε

PLOT DATE . 01-DEC-2015 17.58

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

PLOT SCALE . 11 675051.1 000000

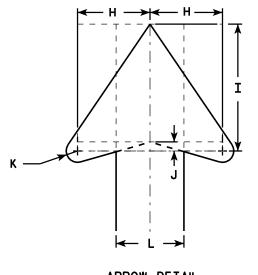
PROJECT NO:



- 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 D
- 4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
- 5. R3-5R is the same as R3-5L except curved portion of arrow points right.
- 6. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	Α	В	С	D	Ε	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	w	Х	Y	Z	Areo sq. ft.
1																											
25	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 1/8	9 1/2		5 3/4	10	10 1/2							1.26
2M	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 1/8	9 1/2		5 3/4	10	10 1/2							1.26
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Ma

For State Traffic Engineer

DATE 2/24/11

11 PLATE NO. R3-5.6
SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R35.DGN

HWY:

PROJECT NO:

PLOT DATE: 24-FEB-2011 14:53

PLOT BY: mscsja

PLOT NAME : PLOT SC

PLOT SCALE: 7.945391:1.000000

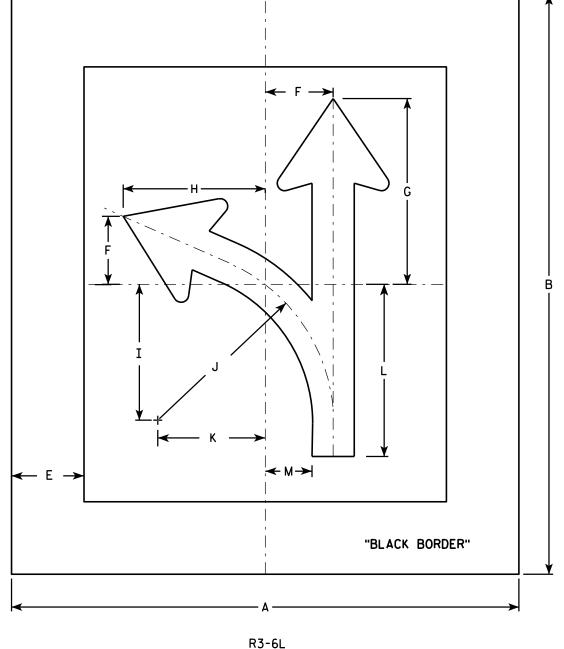
WISDOT/CADDS SHEET 42

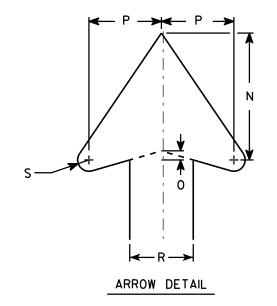


- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Corners may be square or rounded when base material is plywood. When base material is metal. the corners shall be rounded.
- 4. R3-6R is the same as R3-6L except curved portion of arrow points right.
- 5. The 6" border is non-reflective black.





SIZE A	В	С	D	E	F	G	Н	I	J	K	L	M	Z	0	Р	0	R	S	T	C	٧	W	X	Y	Z	Areo sq. ft.
1																										
2S 42	48			6	5 %	15 3/8	11 3/4	11 1/4	14 1/2	8 1/8	14 1/4	3 1/8	7	1/2	4		3 1/2	5/8	36							14.0
2M 42	48			6	5 %	15 3/8	11 3/4	11 1/4	14 1/2	8 1/8	14 1/4	3 1/8	7	1/2	4		3 1/2	5/8	36							14.0
3																										
4																										
5																										
ROJECT	110-					HW						COUN	-													

STANDARD SIGN R3-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 f_{or} State Traffic Engineer

DATE 3/17/2011

PLATE NO. R3-6.5

SHEET NO:

- 1. Sigs are Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 4. Use appropriate Letter for Sign Code
 Each letter added makes sign wider. Example R3-8EAR
- 5. Square footage of sign varies by letters

- 2 Letters = 7.5 sq ft for Size 2 12.0 sq ft for Size 3
- 20.0 sq ft for Size 4 or 5 3 Letters = 11.25 sq ft for Size 2

30.0 sq ft for Size 4 or 5

- 4 Letters = 15.0 sq ft for Size 2 24.0 sq ft for Size 3
 - 40.0 sq ft for Size 4 or 5

18.0 sq ft for Size 3

- 5 Letters = 18.75 sq ft for Size 2 30.0 sq ft for Size 3 50.0 sq ft for Size 4 or 5
- 6 Letters = 22.5 sq ft for Size 2 36.0 sq ft for Size 3 60.0 sq ft for Size 4 or 5
- 6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq.Ft.changes.

Add the amounts when these letters are used:

1.25 sq ft for Size 2
1.5 sq ft for Size 3
2.0 sq ft for Size 4 or 5

STANDARD SIGN R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

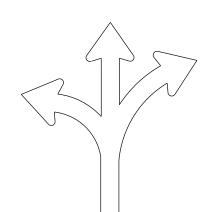
APPROVED Matthew & Rawh

For State Traffic Engineer

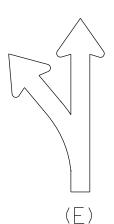
DATE 5/21/19 PLATE NO. R3-8.1

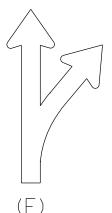
SHEET NO:

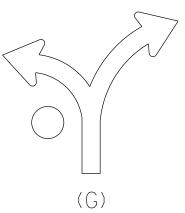
(C)

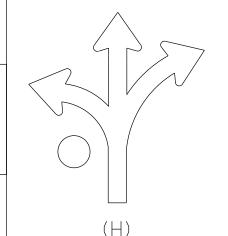


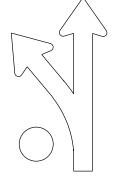
 (Δ)







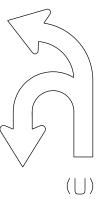




 (\top)







FILE NAME: C:\CAEfiles\Projects\stdplate_R38.dgn

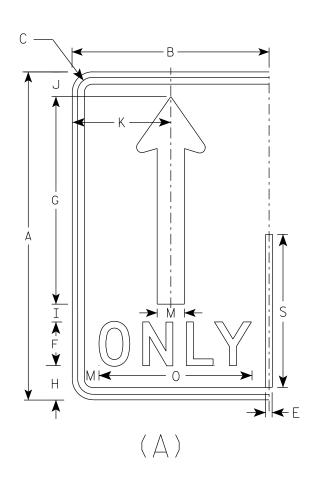
PROJECT NO:

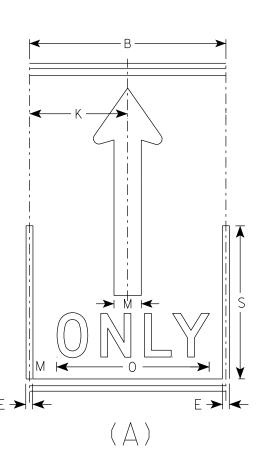
Ε

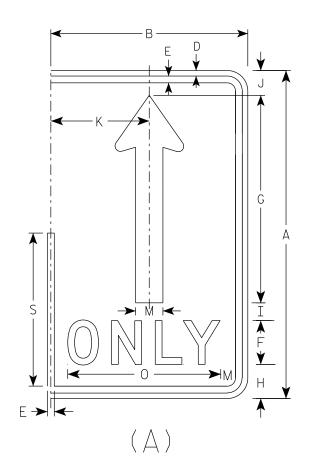
- 1. Sign is Type II Type H Reflective
- 2. Color:

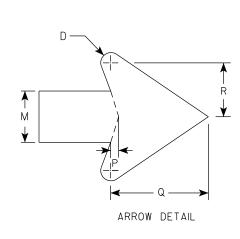
Background - White Message - Black

3. Message Series - D









SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	Ν	0	Р	Q	R	S	Т	U	٧	W	Χ	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 ¾	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 ¾								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 1/8	3 %	15		4		21 ¾	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 1/8	3 5/8	15		4		21 ¾	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN R3-8 (A) Arrow WISCONSIN DEPT OF TRANSPORTATION

APPROVED State Traffic Engineer

DATE <u>5/21/19</u> PLATE NO. <u>R3-8.1</u>

Ε PROJECT NO: HWY: COUNTY: SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

PLOT DATE: 21-MAY 2019 4:38

PLOT BY : mscj9h

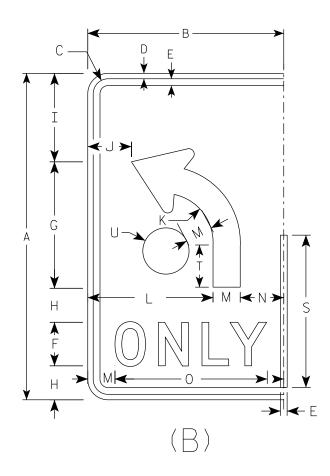
PLOT NAME :

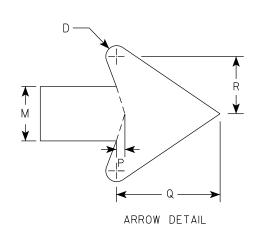
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

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

Background – White Message – Black

Message Series - D





SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Χ	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 %	14	3 1/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 %	14	3 1/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8			22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	18	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

STANDARD SIGN

PROJECT NO: SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

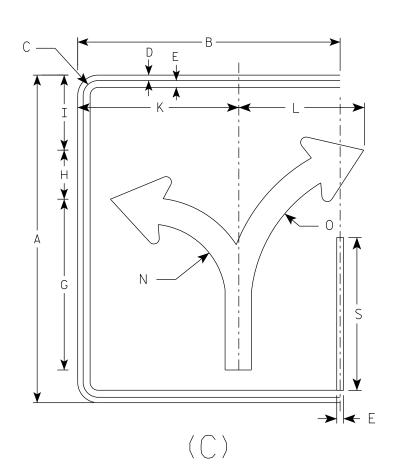
PLOT DATE: 21-MAY 2019 4:38

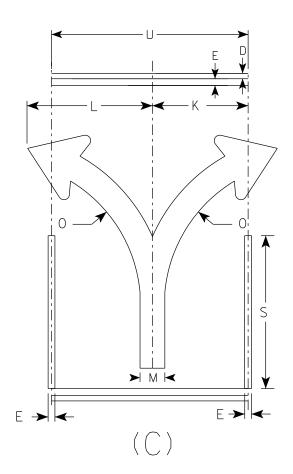
PLOT BY: mscj9h

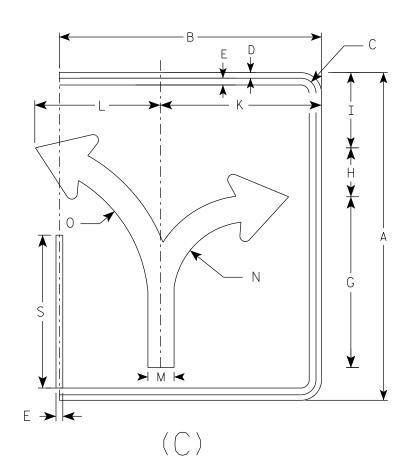
- 1. Sign is Type II Type H Reflective
- 2. Color:

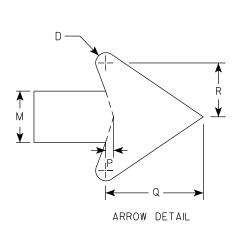
Background - White Message - Black

3. Message Series - None









																										ENDS	MIDDLE
SIZE	Α	В	С	D	E	F	G	Н	I	J K	L	М	Ν	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.	Area sq. ft.
1																											
25	30	24	1 3/8	1/2	5/8		15 %	4 1/2	6 1/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 %	4 1/2	6 1/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4	17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

COUNTY:

STANDARD SIGN R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

 f_{or} State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO: PLOT NAME :

HWY:

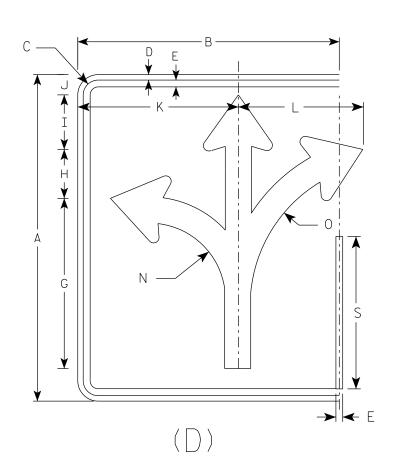
PROJECT NO:

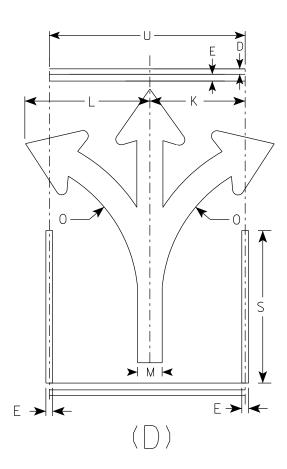
- 1. Sign is Type II Type H Reflective
- 2. Color:

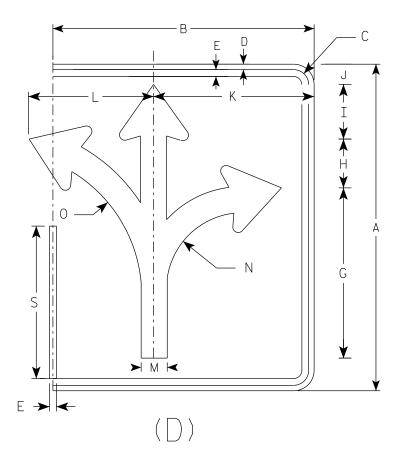
Background - White Message - Black

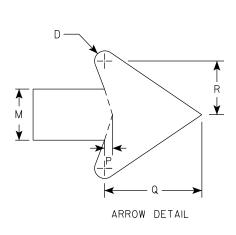
3. Message Series - None

ENDS MIDDLE









SIZE	А	В	С	D	E	F	G	Н	I	J K	L	М	N	0	Р	Q	R	S	T U	V	W	X	Υ	Z	Area sq. ft.	Area sq. ft.
1																										
25	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8 14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14	18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 %	4 1/2	5	1 1/8 14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14	18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4 17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 ¾	24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8 23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8	30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8 23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8	30						12.0	10.0

COUNTY:

STANDARD SIGN R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther √or State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1 Ε

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

HWY:

PROJECT NO:

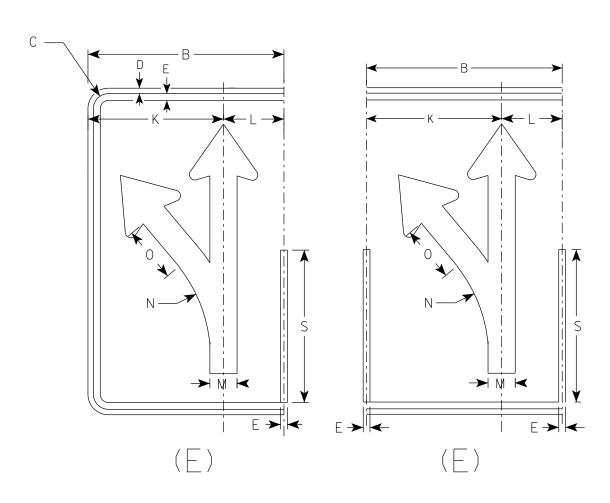
PLOT DATE: 21-MAY 2019 4:38

PLOT BY : mscj9h

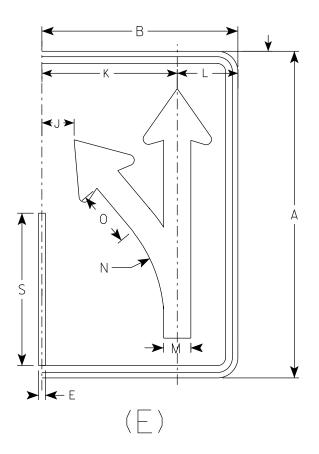
- 1. Sign is Type II Type H Reflective
- 2. Color:

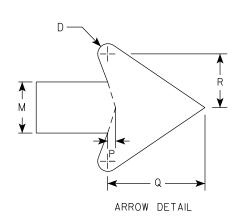
Background - White Message - Black

3. Message Series - None



HWY:





SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	۵	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	5 %	4	4 1/8	16 1/8	7 3/4	3	15 1/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 ¾								10.0

COUNTY:

STANDARD SIGN R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO: **E**

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

PROJECT NO:

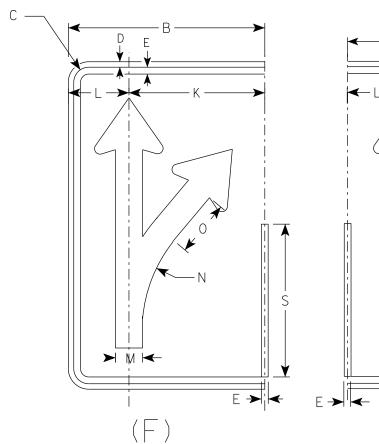
PLOT DATE: 21-MAY 2019 4:38

PLOT BY : mscj9h

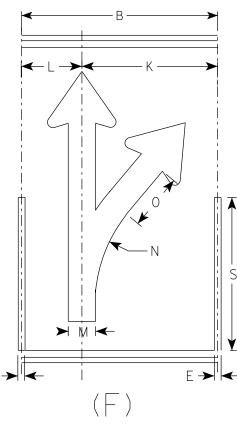
- 1. Sign is Type II Type H Reflective
- 2. Color:

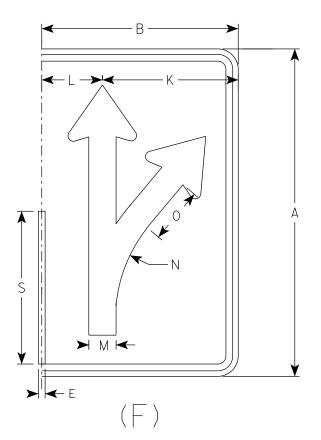
Background - White Message - Black

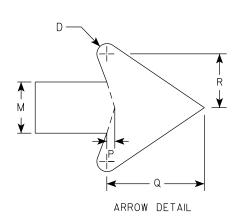
3. Message Series - None



HWY:







SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Χ	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 ½	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	5 5/8	4	4 1/8	16 1/8	7 3/4	3	15 1/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8			22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7	4 1/4	22 3/8								10.0

COUNTY:

STANDARD SIGN R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R R For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO: **E**

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

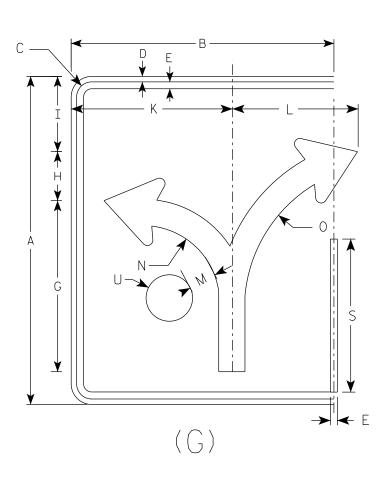
PLOT NAME :

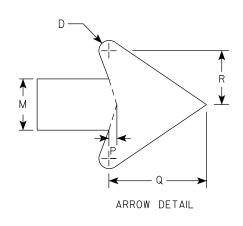
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

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

Background - White Message - Black

3. Message Series - None





s	IZE	А	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	Q	R	S	T	U	٧	w w	Χ	Y	Z	Area sq. ft.
	1																											
	25	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 1/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
	2M	30	24	1 3/8	1/2	5/8		15 %	4 1/2	6 %		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
	3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
	4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
	5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

COUNTY:

STANDARD SIGN R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Roy For State Traffic Engineer

SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

PROJECT NO:

HWY:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

PLOT NAME :

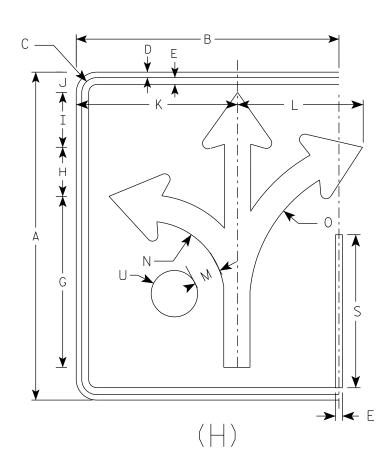
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

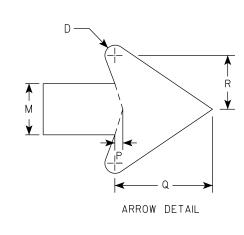
•

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

Background - White Message - Black

3. Message Series - None





SIZE	А	В	С	О	E	F	G	I	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																											
25	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 1/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 %	4 1/2	5	1 1/8	14 3/4			7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 ¾	5 1/2	9	3 1/8	17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 ¾		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

COUNTY:

STANDARD SIGN R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Roy For State Traffic Engineer

DATE ___5/21/19_ PLATE NO. __R3-8.1

SHEET NO: **E**

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

HWY:

PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

PLOT NAME :

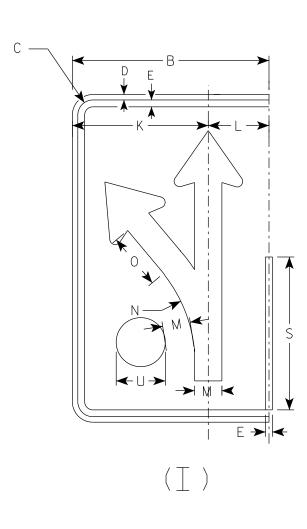
PLOT SCALE: \$\$.....plotscale.....\$\$WISDOT/CADDS SHEET 42

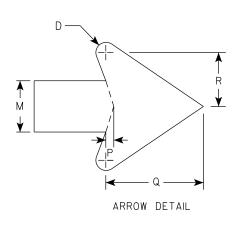
7

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

Background - White Message - Black

3. Message Series - None





SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Χ	Υ	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 ½	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	5 %	4	4 1/8	16 1/8	7 3/4	3	15 1/8	6 1/8	1/2	5 3/4	3 1/8	16 ¾		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 %	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED $\frac{\text{Matthex}}{\text{For}}$ State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO: **E**

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

HWY:

PROJECT NO:

COUNTY:

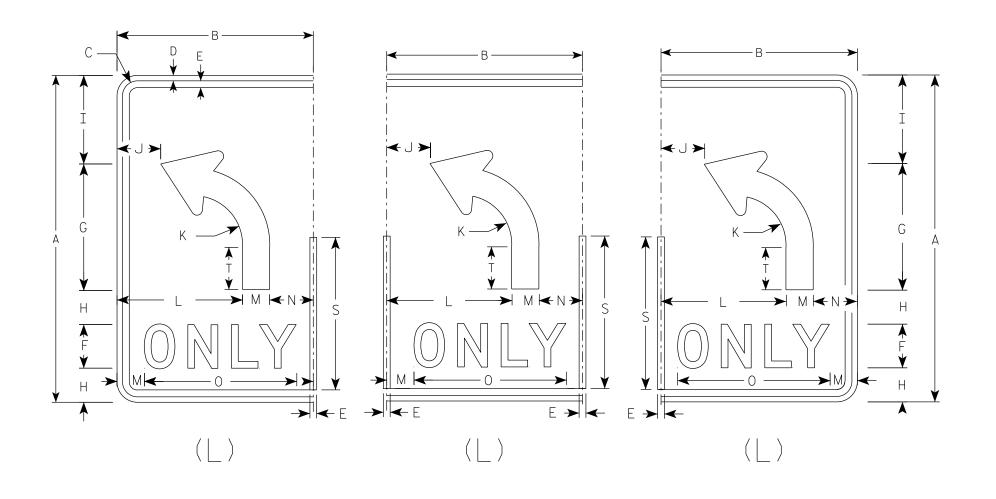
PLOT DATE: 21-MAY 2019 4:38

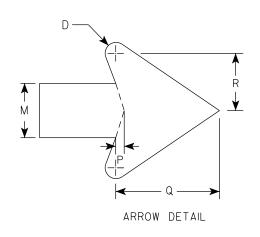
PLOT BY : mscj9h

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

Background – White Message – Black

3. Message Series - D





SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	7 Area sq. ft.
1																										
25	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 %						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4						10.0
5	48	30	2 1/4	3/4	1	6	18	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 %	4 1/4	22 3/8	6 1/4						10.0

STANDARD SIGN
R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther R Raw

For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

SHEET NO:

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\stdplate_R38.dgn

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

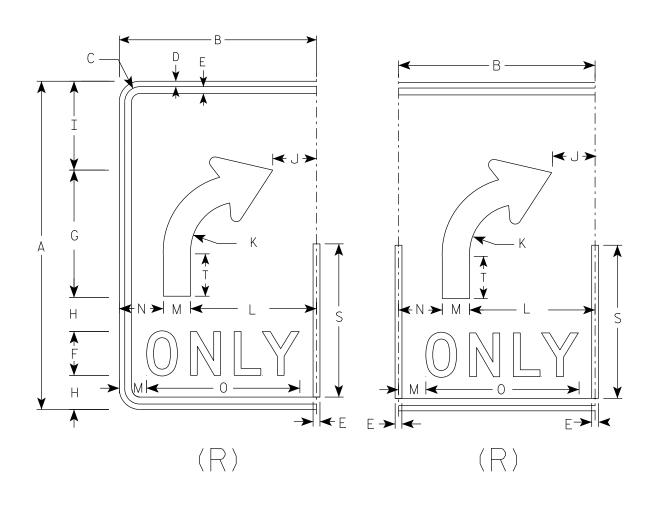
PLOT NAME :

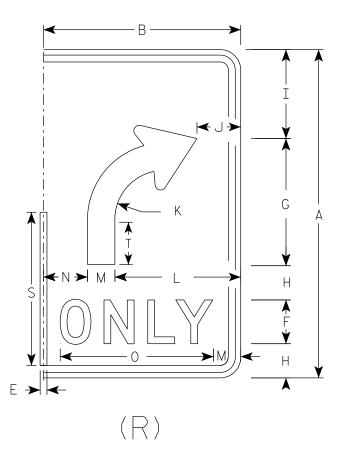
Ε

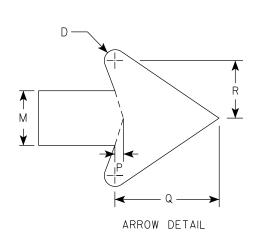
- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

3. Message Series - D







SIZE	А	В	С	D	E	F	G	Ι	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 1/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2	14	3 1/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED M

For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

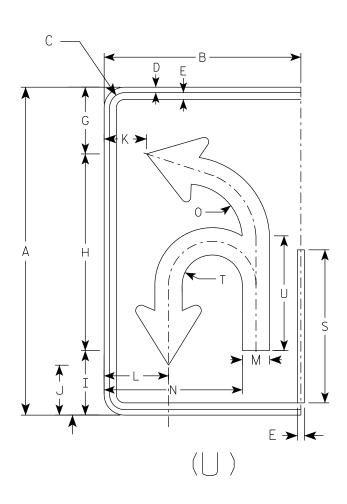
SHEET NO:

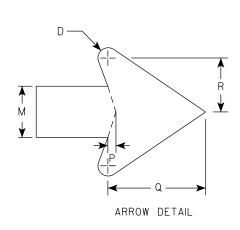
PROJECT NO:

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

Background - White Message - Black

3. Message Series - None





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S T	U	V	W	X	Υ	Z Area sq. ft.
1																									
25	30	18	1 3/8	1/2	5/8		6 1/8	18	5 1/8	4 5/8	3 1/8	5 %	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14 2	4 10 1/2	2				3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 1/8	4 5/8	3 1/8	5 1/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14 2	/ ₄ 10 1/ ₂	2				3.75
3	36	24	1 3/8	1/2	5/8		21 1/8	21 %	7 1/8	5 1/2	5 %	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4 3 !	/ ₄ 12 5/ ₈					6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 ¾	9 3/8	7 1/4	6 1/8	10	4	20 1/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8 4 3	8 16 3/ ₄					10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 ¾	9 3/8	7 1/4	6 1/8	10	4	20 1/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8 4 3	8 16 3/2					10.0

COUNTY:

STANDARD SIGN R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

DATE 5/21/19 PLATE NO. R3-8.1

 f_{or} State Traffic Engineer

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

HWY:

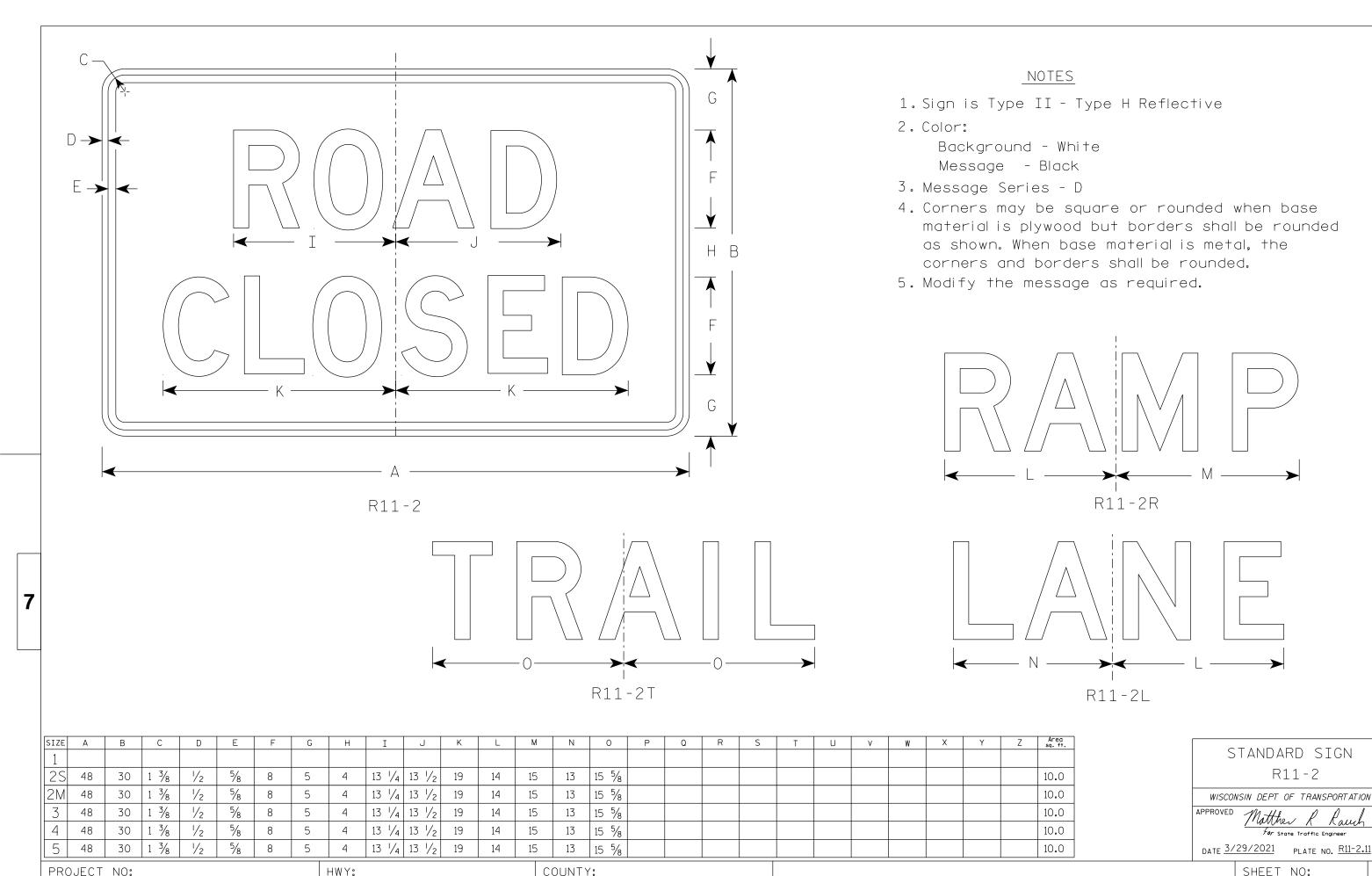
PROJECT NO:

PLOT DATE: 21-MAY 2019 4:38

PLOT BY: mscj9h

PLOT NAME :

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



FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn

PLOT DATE: 29-MAR 2021 8:15

PLOT BY : dotc4c

PLOT NAME :

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

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

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.

 $D \rightarrow$ F->

R11-3

** See Note 5

SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Ρ	Q	R	S	Т	U	V	W	Χ	Y	Z	Area sq. ft.
1	36	18	1 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
25	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 1/8	5	1 3/8	23 1/4	3	6 1/4	13 %	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 1/8				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 1/8	5	1 3/8	23 1/4	3	6 1/4	13 %	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 1/8				12.5
3																											
4																											
5																											
PRO	ROJECT NO: HWY:								С	OUNTY	` o							-					•				

STANDARD SIGN R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Kauch

SHEET NO:

DATE 6/14/2021 PLATE NO. R11-3.9

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R113.DGN

PLOT DATE: 14-JUNE 2021 10:04

PLOT BY : dotc4c

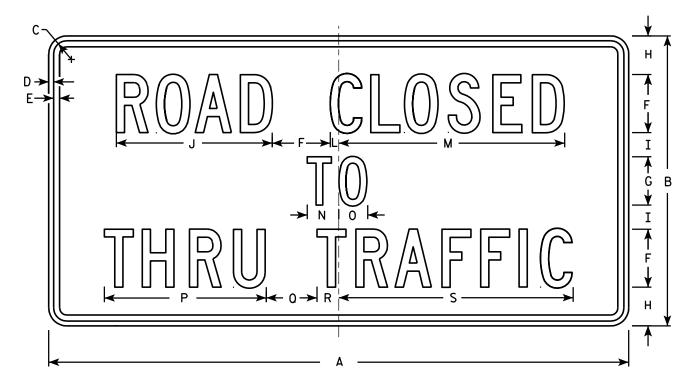
PLOT NAME :

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

- 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 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.



R11-4

SIZE	Α	В	С	D	Ε	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																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7 /8	23 ¾	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7∕8	23 ¾	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-4.3

SHEET NO:

PLOT DATE: 01-APR-2011 14:11

PLOT NAME :

WISDOT/CADDS SHEET 42

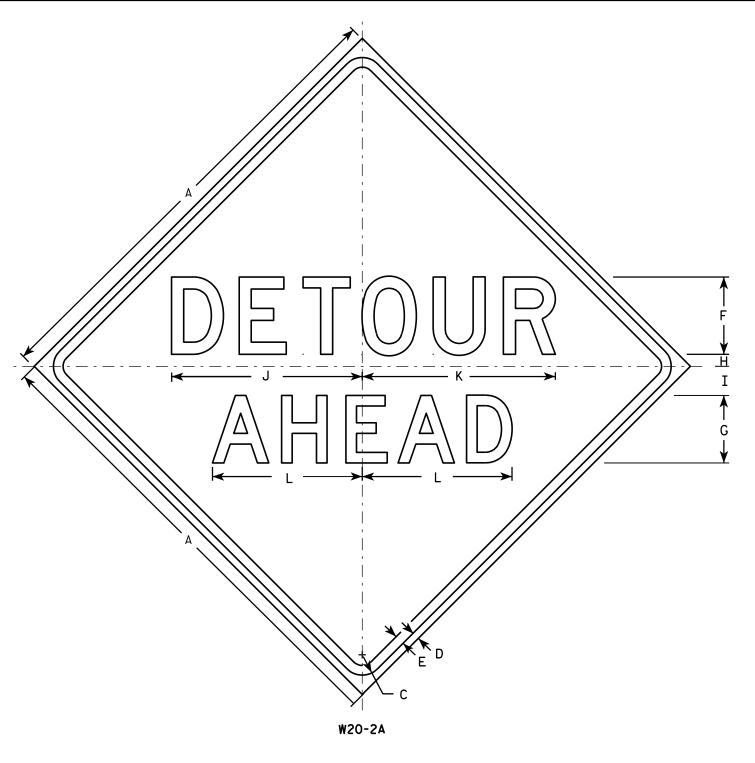
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R114.DGN

PROJECT NO:

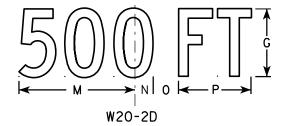
HWY:

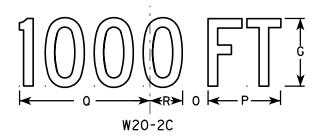
PLOT BY: mscj9h

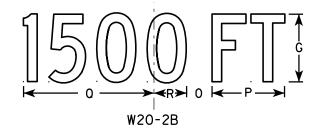
PLOT SCALE: 9.931739:1.000000

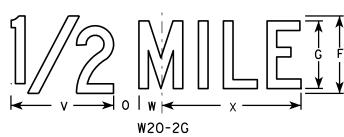


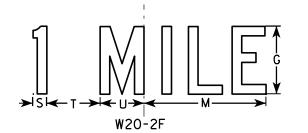
HWY:











PLOT BY: mscj9h

<u>NOTES</u>

- 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	3/4	6	5	1	2 1/4	14 3/4	15	11 %	9	1 3/8	1 %	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 3/8	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 3/8	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
3	48		2 1/4	3∕4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 %	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	3∕4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 %	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 %	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

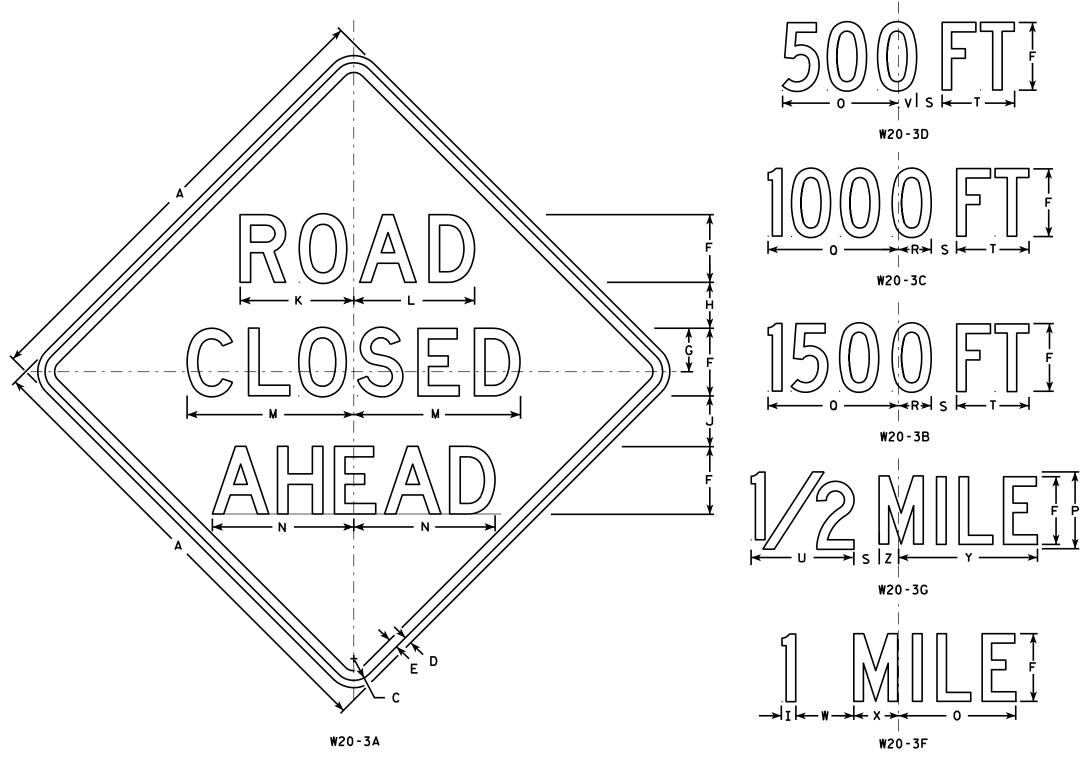
WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

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 - Orange Message - Black

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

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	٧	w	х	Y	Z	Areo sq. ft.
1	36		1 %	5/8	₹4	5	3 3/8	3 ½	1 1/8	4	8 3%	8 %	12 1/2	11	9	6	10 1/8	2 1/2	1 %	5 %	8	1 3/8	4 1/2	3 1/2	10 ¾	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 ¾	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 ¾	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 5/8	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
	-		- , -	, -	_		, , .				,			- ,0			, -	- 70	_ , ,	, -	70	- 70		, ,	- ,0	- 70	

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

WISCONSIN DEPT OF TRANSPORTATION

DATE 3/18/11

For State Traffic Engineer
PLATE NO. W20-3.7

SHEET NO:

HWY:

COUNTY:

PLOT NAME :

PLOT SCALE: 9.931739:1.000000

PROJECT NO:

DESIGN DATA

CONTRACTOR DESIGNED OVERHEAD SIGN STRUCTURES SHALL BE DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL

STANDARD FOUNDATIONS DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN

DEAD LOAD: WT. OF SIGN AND SUPPORTING STRUCTURE 3 PSF TO ONE FACE OF SIGN & SURFACE OF MEMBERS ICE LOAD:

115 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS WIND PRESSURE:

(700 YEAR MEAN RECURRENCE INTERVAL)

NORMAL	TRANSVERSE
1.00	0.00
0.00	1.00
0.75	0.75
	1.00 0.00

LOAD COMBINATIONS

1.25 DC + 1.6 LL 1.1 DC + 1.0 W + 1.0 ICE EXTREME I (MAX DC) EXTREME L'(MIN DC): 0 9 DC + 1 0 W SERVICE I 1.0 DC + 1.0 W

FATIGUE: 1.0 NW (NATURAL WIND GUST) 1.0 Trg (TRUCK INDUCED GUST) 1.0 GVW (GALLOPING - CANTILEVER ONLY)

MATERIAL PROPERTIES

CONCRETE MASONRY	f' _c = 3,500 PSI
HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60	f _y = 60,000 PSI
STRUCTURAL ANGLES, PLATES & BARS - ASTM A709 GRADE 36 ——	f _y = 36,000 PSI
HIGH STRENGTH BOLTS - ASTM A3125 GRADE A325 ————	f _y = 92,000 PSI
ANCHOR RODS - ASTM F1554 GRADE 55	f _y = 55,000 PSI
HEAVY HEX NUTS - ASTM A563 GRADE DH OR ASTM A194 GRADE 2H	

WASHERS - ASTM F436

BID ITEM NO. BID ITEM

531.2042

531.5130

532.5130

DTI WASHERS - ASTM F959 TYPE 325

FOUNDATION DATA

TOTAL ESTIMATED QUANTITES

DRILLING SHAFT 42-INCH

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGN FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE FOR DESIGN IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE, ACTUAL WATER LEVEL AT SITE MAY VARY. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING THE DRILLING OF THE SHAFT HOLE TO CONFRIM THESE PROPERTIES PRIOR TO PLACEMENT OF THE

FOUNDATION SINGLE-SHAFT TYPE MC-III (S-44-0311)

MONOTUBE CANTILEVER TYPE III (S-44-0311)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE REFERENCE SYSTEM SYSTEM (WISCRS), OUTAGAMIE COUNTY, NAD 83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON

ALL REINFORCING BARS ARE IN ENGLISH LINITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE TRUSS OR MONOTUBE BID ITEMS FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A4-3.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIA. A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1 1

SEE SIGN PLATE NO. A4-6, A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE $rac{1}{4}$ THE LENGTH OF THE CANTILEVER SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON THE SHOP DRAWINGS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "DRILLING SHAFT (DIA.)".

UNIT

EA

EA

S-44-0311

18

STRUCTURE DATA

STRUCTURE ID S-44-0311 28 SF

4'-N"

FOUNDATION TYPE TYPE MC-III

TRUSS TYPE

STATE PROJECT NUMBER

4075-41-71

TRAFFIC VOLUME

A.D.T. (2045) = 14,840 R.D.S. = 50 MPH

LIST OF DRAWINGS:

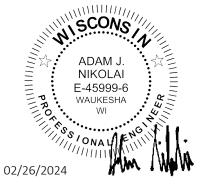
- 1. GENERAL NOTES & DESIGN DATA
- 2. LAYOUT S-44-0311

LIST OF STANDARD DESIGN DRAWINGS

- MONOTUBE & 2-CHORD TRUSS CONNECTIONS 1
- 4. II. MONOTUBE & 2-CHORD TRUSS CONNECTIONS 2
- 5. III. MONOTUBE & 2-CHORD TRUSS ELECTRICAL DETAILS
- 6. IV. MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

THESE ARE STANDARD DESIGN PLANS DEVELOPED AND MAINTAINED BY THE WISDOT. THE DESIGNER CERTIFIES THAT THE DESIGN AND PLAN DETAILS CHOSEN ARE CONSISTENT WITH THE GUIDANCE PROVIDED IN THE CURRENT WISDOT

BRIDGE MANUAL CHAPTER 39.



STRUCTURE DESIGN CONTACTS: (608) 261-0261 **AARON BONK** ADAM NIKOLAI (262) 317-3257

NO. DATE REVISION 100 West Lawrence Street, Suite 41 Appleton, WI 54911-5754 (920) 731-3499 rasmith.com STATE OF WISCONSIN DEPARTMENT OF TRANSPORATION

> CHIEF STRUCTURES DESIGN ENGINEER **MONOTUBE & 2-CHORD**

STH 96 EAST OF STH 76

OUTAGAMIE GREENVILLE DESIGN SPEC AASHTO LRFD BRIDGE DESIGN SPECIFICATION BOS CK'D BOS BY AJN CK'D

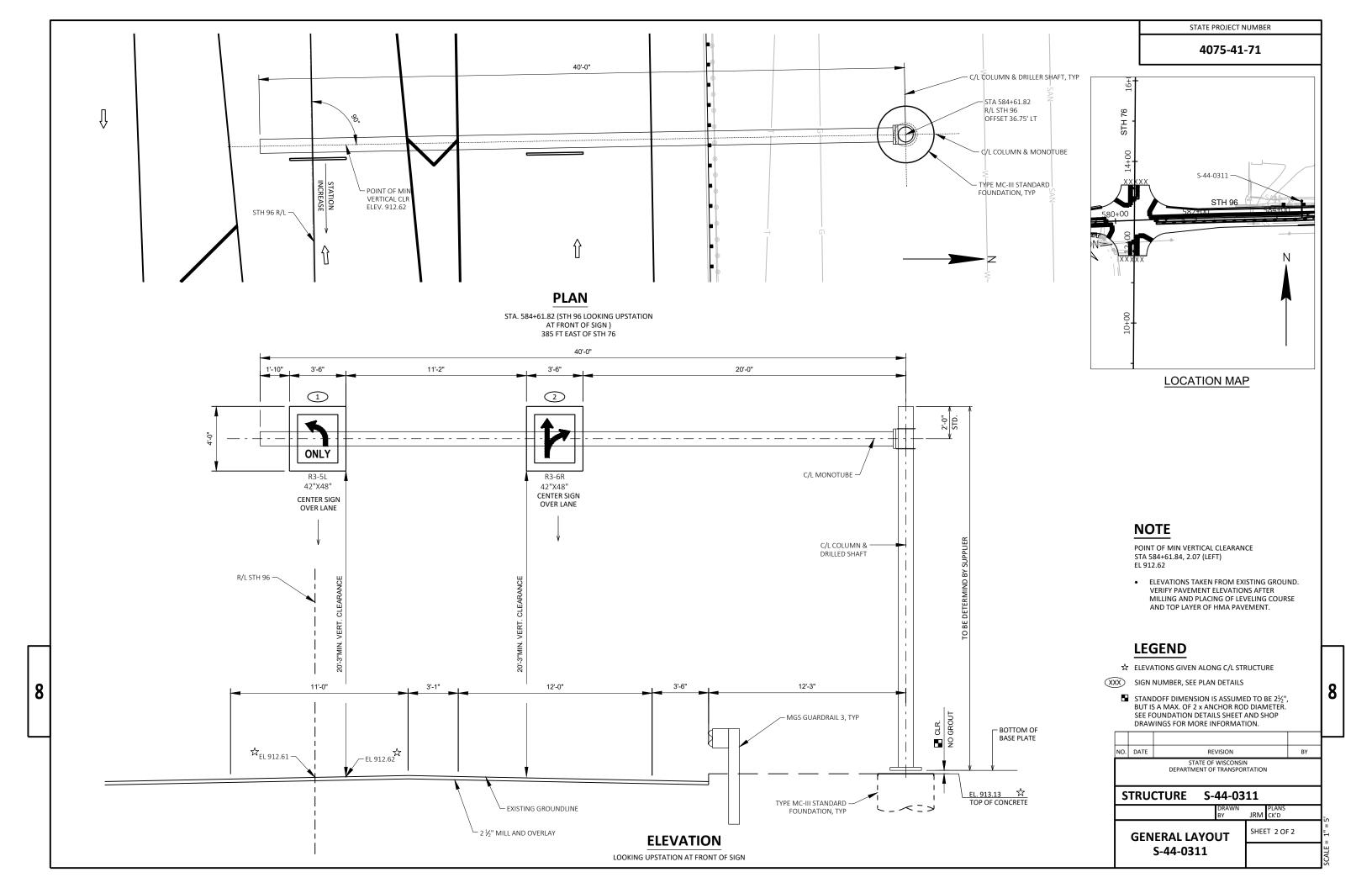
GENERAL NOTES & DESIGN DATA

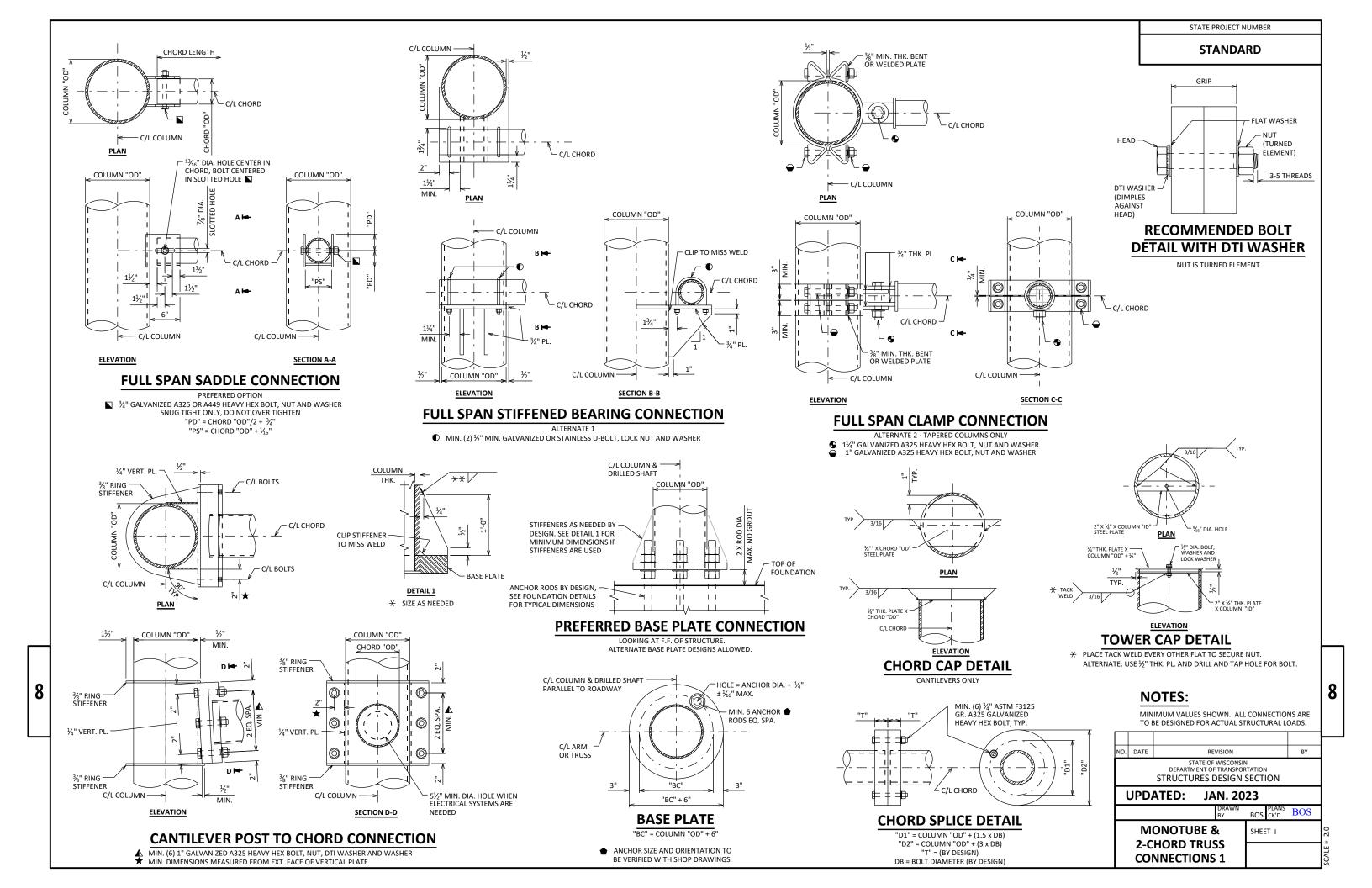
02/26/24

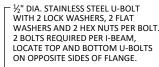
DATE: 02/26/2024

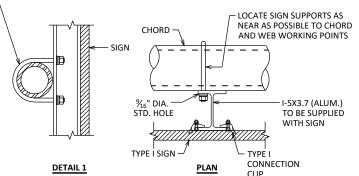
SHEET 1 OF 2

I.D. 4075-41-71









2-CHORD TRUSS SIGN CONNECTION

TYPE I SIGN PANEL SHOWN. SEE SIGN PLATE MANUAL A4-7A AND A4-7BFOR DETAILS. ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH SIGN PANEL, HARDWARE TO BE SUPPLIED BY THE CONTRACTOR.

½" DIA. STAINLESS STEEL U-BOLT WITH 2 LOCK WASHERS, 2 FLAT WASHERS AND 2 HEX NUTS PER BOLT. REQUIRED PER I-BEAM, LOCATE U-BOLTS ON 2 - U-BOLTS PER CONNECTION CHORD %6" DIA. I-5X3.7 (ALUM.) STD. HOLE TO BE SUPPLIED

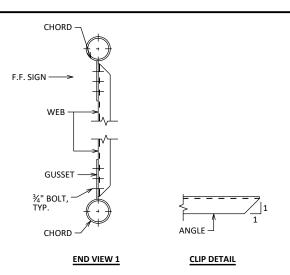
MONOTUBE SIGN CONNECTION

TYPE II SIGN -

PLAN

STAINLESS BOLT, **NUT AND OVERSIZED**

TYPE II SIGN PANEL SHOWN. SEE SIGN PLATE MANUAL A4-7A AND A4-7B FOR DETAILS. ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH SIGN PANEL, HARDWARE TO BE SUPPLIED BY THE CONTRACTOR.



13'-9" MAX. (CANTILEVER) 10'-6" MAX. (FULL SPAN) - W6X12 DMS/CATWALK SUPPORT, TYP. BOTTOM -5'-0" ± 6", TYP. OR SPA. PER MANUFACTURER MAX.

RT OR

- BACK-UP BAR

STATE PROJECT NUMBER

STANDARD

CHORD SPLICE

SEPARATE OPTIONAL SPLICE FROM GUSSET PLATES BY 6" MIN.

TRUSS CONNECTION DETAILS

MEMBER ORIENTATION FOR BOLTED CONNECTIONS SHOWN, WELDED CONNECTIONS SIMILAR. ANGLES PREFERRED, OTHER WEB DESIGNS ALLOWED.

— F.F. DMS

DMS MOUNTING POST DETAIL

PLATE

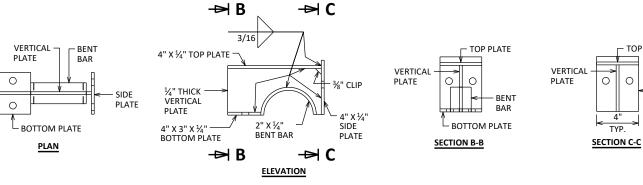
- CHORD

TYP.

SECTION A-A

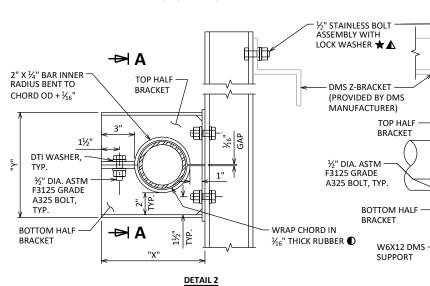
TYP.

POST SPACING MAY BE ADJUSTED AS REQUIRED IF SPACING CONFLICTS WITH GUSSET PLATES OF TRUSS WITHIN TOLERANCES NOTED.



DMS WELDED PLATE CONNECTION DETAILS

TOP HALF OF BRACKET SHOWN,

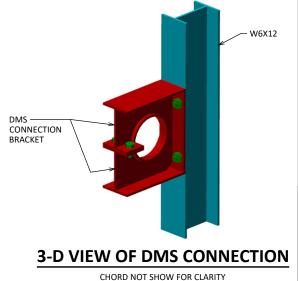


		<u> </u>
CHORD "OD"	"X"	" Y "
"OD"	"OD" + 4 ¹³ / ₁₆ "	"OD" + 5½"

TYPICAL DMS CONNECTION

NEOPRENE, GRADE 45±5, OTHERWISE MEETING THE REQUIREMENTS OF STD. SPEC. 506.2.6.1

▲ IF DMS CONNECTION BRACKET IS USED WITH A TYPE II SIGN PANEL, THE BOLT HOLE MUST BE GALVANIZED AND A STAINLESS WASHER USED BETWEEN THE I-BEAM AND SIGN PANEL.





MONOTUBE & 2-CHORD TRUSS CONNECTIONS 2

SHEET II

DETAIL 1

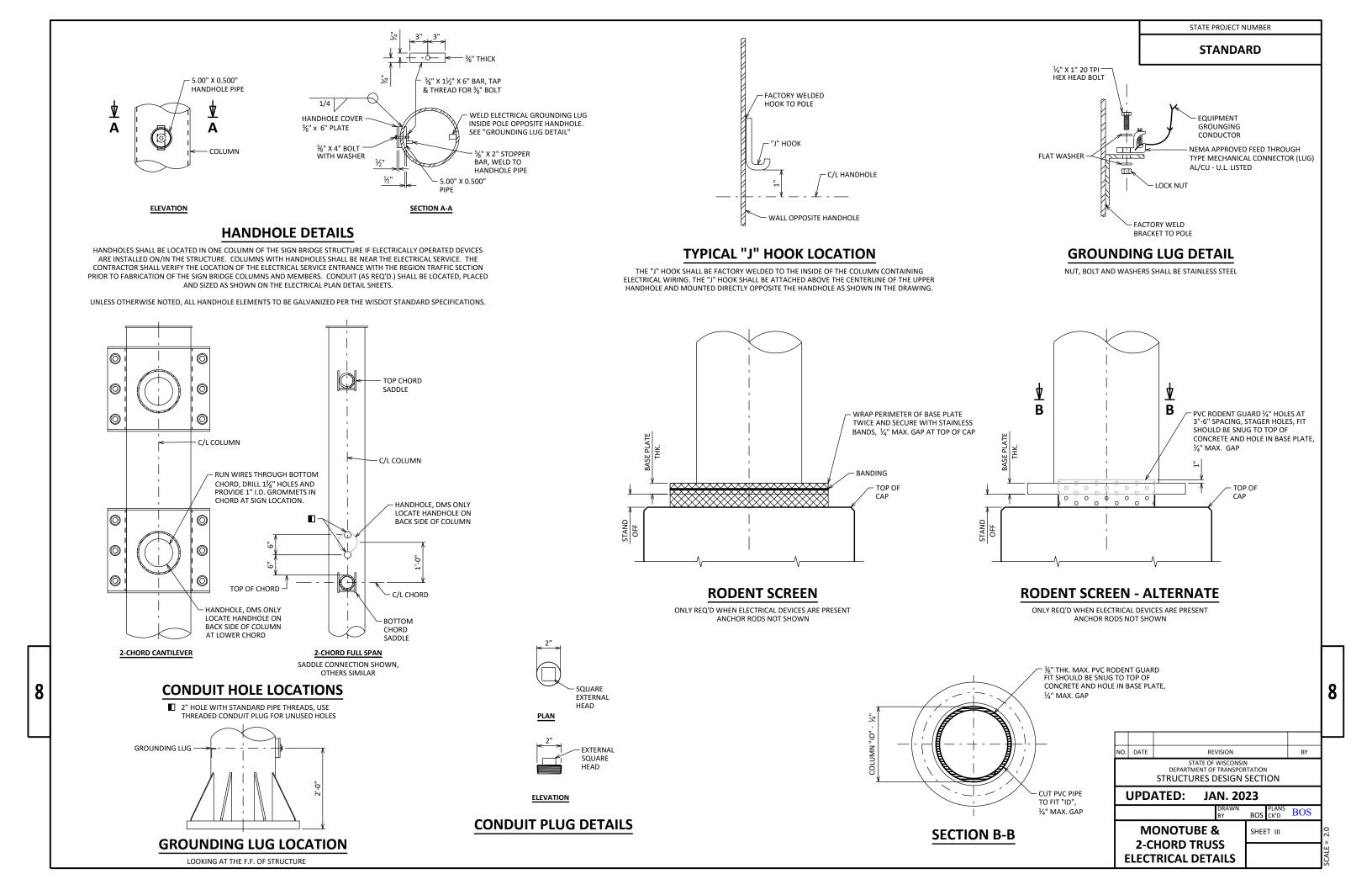
MAX. W6X12 DMS SUPPORT DMS CONNECTION -BRACTET, TYP.

1'-0"

SECTION THRU TRUSS - DMS

FOR DMS/CATWALK CONNECTIONS

★ W6X12 SUPPORTS AND HARDWARE ARE TO BE SUPPLIED BY THE CONTRACTOR. ½" STAINLESS BOLT, NUT, WASHER AND LOCK WASHER REQUIRED, 4 PER W6X12



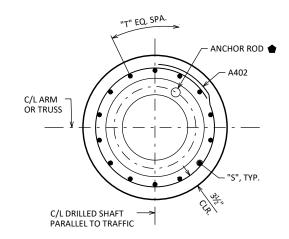
"D"/2

"D"/2

· C/I COLUMN &

DRILLED SHAFT

- TYPICAL FOR DRILLED SHAFT FOOTINGS INSTALLED ADJACENT TO SIDEWALKS OR BEHIND CURB AND GUTTER ON LOW SPEED ROADS. TOP OF SHAFT SHALL BE FLUSH IF SURROUNDED BY CONCRETE AND 2" ABOVE FINISHED GRADE FOR ALL OTHER SURFACES.
- ◆ TYPICAL FOR EACH DRILLED SHAFT FOOTING INSTALLED ADJACENT TO ROADWAY FACILITIES OR ON SIDE SLOPES WITHIN CLEAR ZONE. BARRIER OR BEAMGUARD MAY BE REQUIRED.



SECTION B-B

TYPICAL FOR EACH DRILLED SHAFT FOOTING

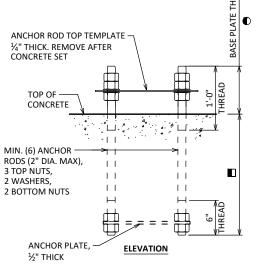
FOUNDATION DIMENSION DATA

STANDARD		FOL	JNDATIC	N DIME	NSIONS	
DESIGN TYPE	"D"	"L"	"R"	"S"	"T"	"ВС" МАХ.
MFI	2'-0"	12'-0"	12	A801	6	1'-0"
MFII	2'-6"	13'-0"	13	A801	10	1'-5"
MCI/MCII/TFI	2'-6"	17'-0"	17	A801	10	1'-5"
TCI	3'-0"	18'-0"	18	A801	14	1'-10"
TFII	3'-0"	20'-0"	20	A801	14	1'-10"
MCIII/TCII/TFIII	3'-6"	18'-0"	18	A901	14	2'-4"
MCIV/TFIV	3'-6"	23'-0"	23	A901	14	2'-4"
TCIII	4'-0"	23'-0"	23	A1001	14	2'-10"
TCIV	4'-0"	28'-0"	28	A1001	14	2'-10"

ESTIMATED QUANTITIES - FOUNDATION

STANDARD DESIGN TYPE	CONCRETE MASONRY	STEEL REINFORCEMENT HS	FO		TION I	DRILLII F)	NG
	(CY)	(LBS)	24"	30"	36"	42"	48
MFI	2	240	12				
MFII	3	410		13			
MCI/MCII/TFI	4	540		17			
TCI	5	780			18		
TFII	6	860			20		
MCIII/TCII/TFIII	7	970				18	
MCIV/TFIV	9	1,250				23	
TCIII	11	1,560					23
TCIV	13	1,900					28

* * QUANTITIES ARE FOR INFORMATION ONLY AND ARE BASED ON A SINGLE * * DRILLED SHAFT. MULTIPLY BY 2 FOR FULL SPAN STRUCTURES.



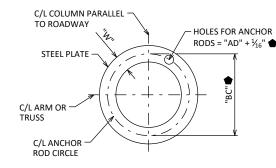
ANCHOR ROD ASSEMBLY DETAILS

■ ANCHOR RODS PER ASSEMBLY TO BE DESIGNED BY CONTRACTOR AND SHOWN ON SHOP DRAWINGS. SHOW DIAMETER, NUMBER, ORIENTATION AND EMBEDMENT OF ANCHOR RODS.

CENTER ANCHOR ROD ASSEMBLY AND ENSURE ASSEMBLY IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE AS DETAILED. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHORS.

ANCHOR DIAMETER	MAX. STICK OUT ⊕
	"X"
1"	5"
11/4"	6"
1½"	7"
1¾"	8"
2"	9"

ADD BASE PLATE THICKNESS TO VALUE SHOWN FOR MAX. STICK OUT DIMENSION. CONTRACTOR TO COORDINATE WITH FABRICATOR FOR PROPER ANCHOR PLACEMENT.



ANCHOR PLATE &

♠ ANCHOR SIZE, BOLT CIRCLE, AND POSITION TO BE VERIFIED WITH SHOP DRAWINGS.

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

BILL OF BARS

STANDARD

STATE PROJECT NUMBER

STANDARD TYPE MFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		6	11'-8"			DRILLED SHAFT - VERTICAL
A402		13	5'-10"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE MFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	12'-8"			DRILLED SHAFT - VERTICAL
A402		14	9'-4"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPES MCI/MCII/TFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		10	16'-8"			DRILLED SHAFT - VERTICAL
A402		18	9'-4"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TCI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	17'-8"			DRILLED SHAFT - VERTICAL
A402		19	10'-10"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	19'-8"			DRILLED SHAFT - VERTICAL
A402		21	10'-10"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPES MCIII/TCII/TFIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	17'-8"			DRILLED SHAFT - VERTICAL
A402		19	12'-5"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPES MCIV/TFIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	22'-8"			DRILLED SHAFT - VERTICAL
A402		24	12'-5"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TCIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	22'-8"			DRILLED SHAFT - VERTICAL
A402		24	14'-0"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TCIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	27'-8"			DRILLED SHAFT - VERTICAL
A402		29	14'-0"	Х		DRILLED SHAFT - HORIZONTAL

^{*} VALUES IN BAR TABLES ARE FOR A SINGLE FOUNDATION ONLY. MULTIPLY BY 2 FOR FULL * *

A402

LEGEND

ANCHOR ROD STICK OUT IN FINAL CONDITION. EXCESSIVE STICK OUT BEYOND DIMENSION SHOWN TO BE CUT OFF AFTER PLACING STRUCTURE. ANCHORS TO BE ULTRASONIC TESTED TO DETERMINE EMBEDDED LENGTH MEETS REQUIREMENTS PRIOR TO CUTTING. NOTE REMAINING LENGTH ON AS-BUILT.

▲ 2 - 2" DIA. NON-METALLIC CONDUITS. INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP OR SEAL EACH END WITH A SUITABLE REMOVABLE PLUG. PLACE CONDUITS UNDER COLUMN ADJACENT TO DMS. CONDUITS INCIDENTAL TO THE FOUNDATION BID ITEMS.

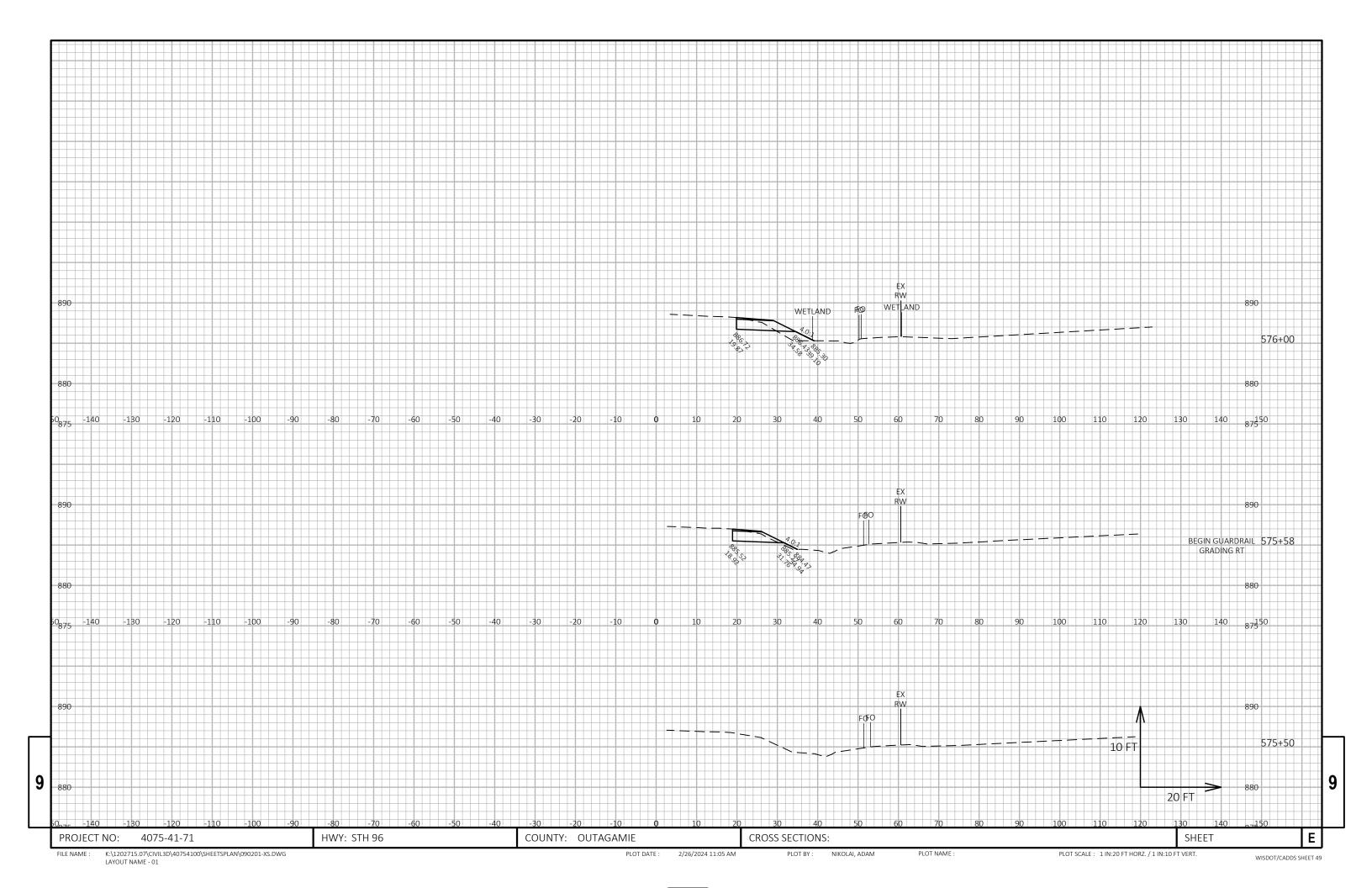
NO.	DATE	REVISION	BY
		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	

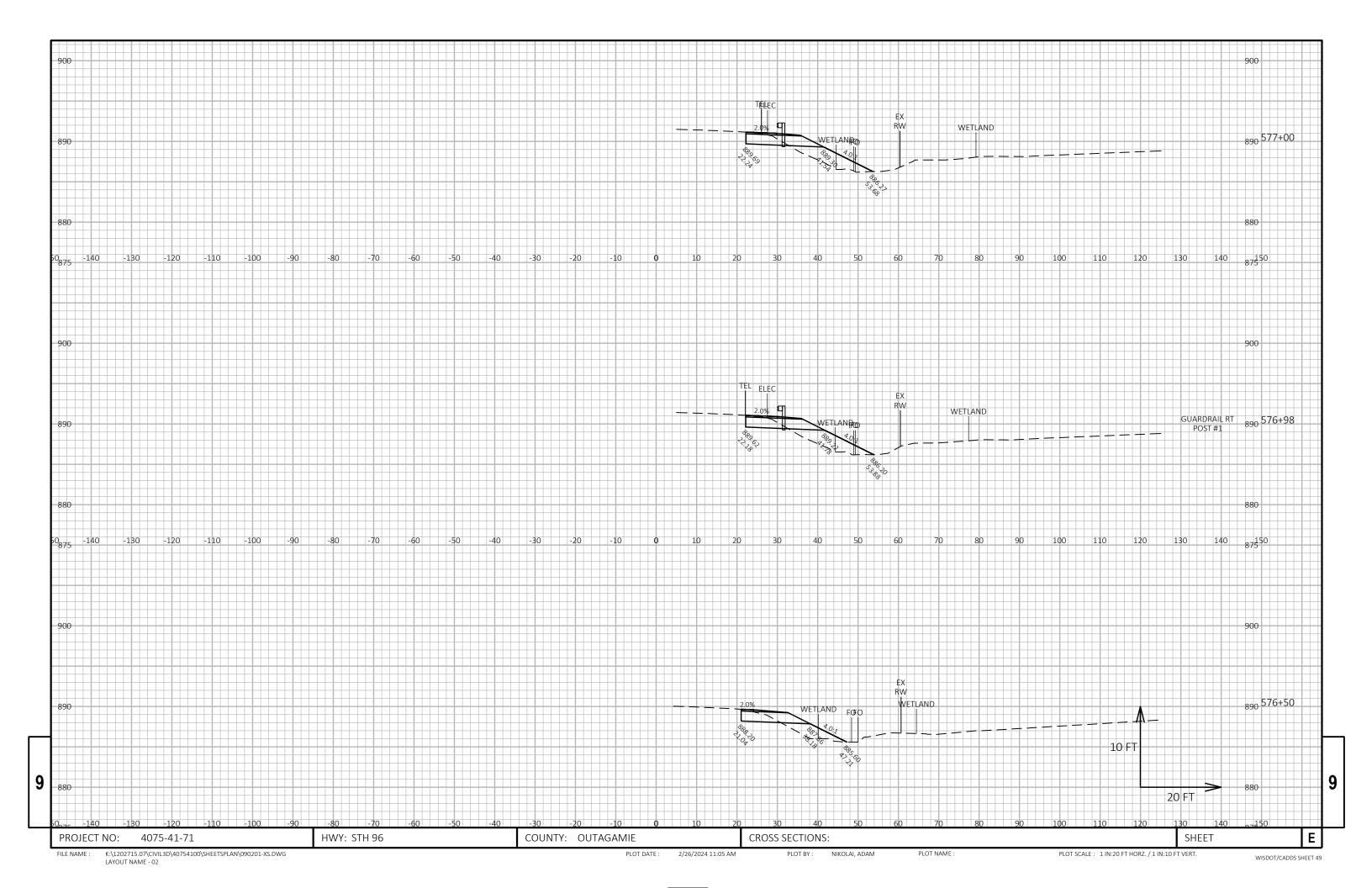
STRUCTURES DESIGN SECTION **UPDATED:** OCT. 2023

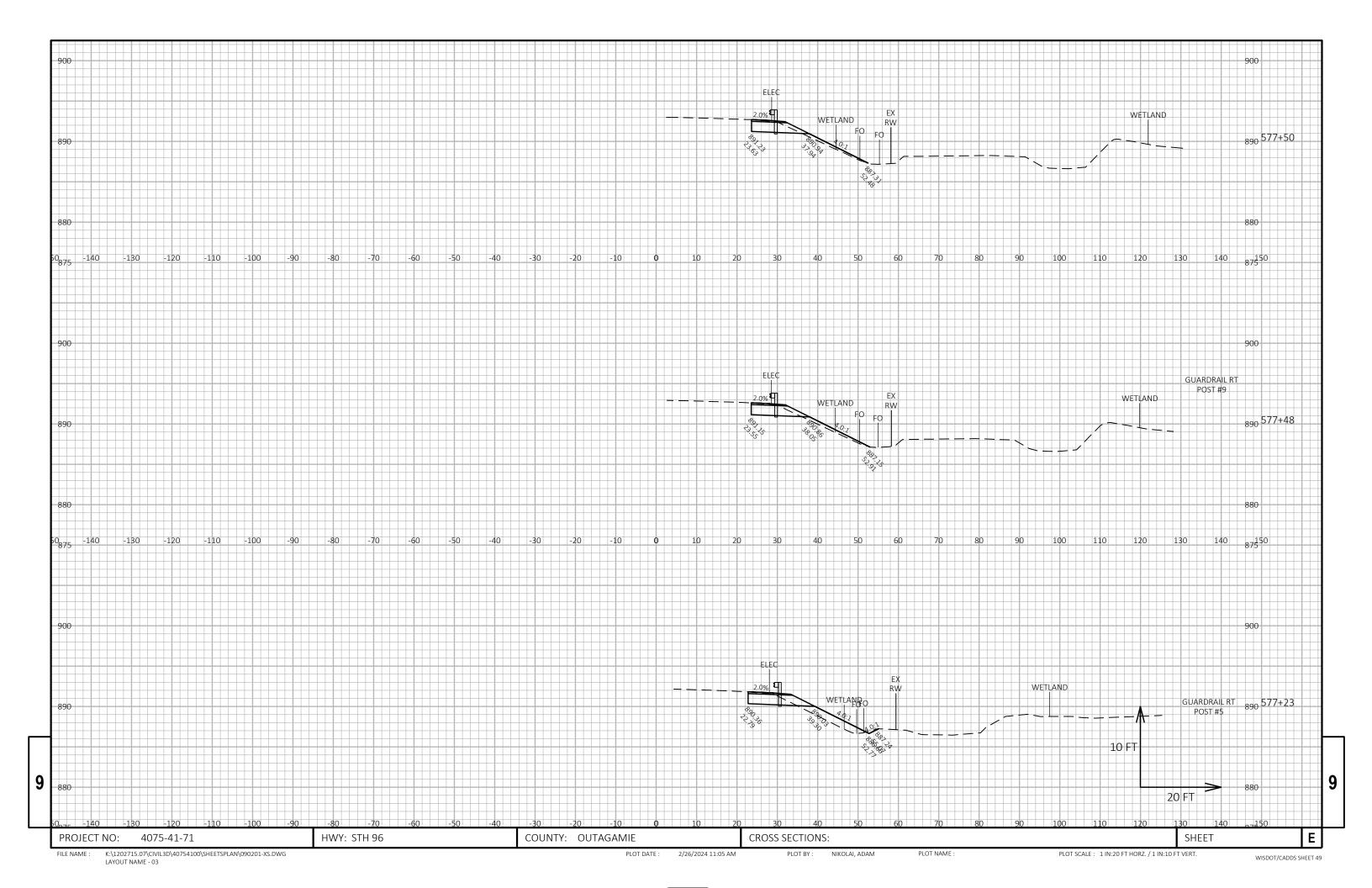
BOS CK'D

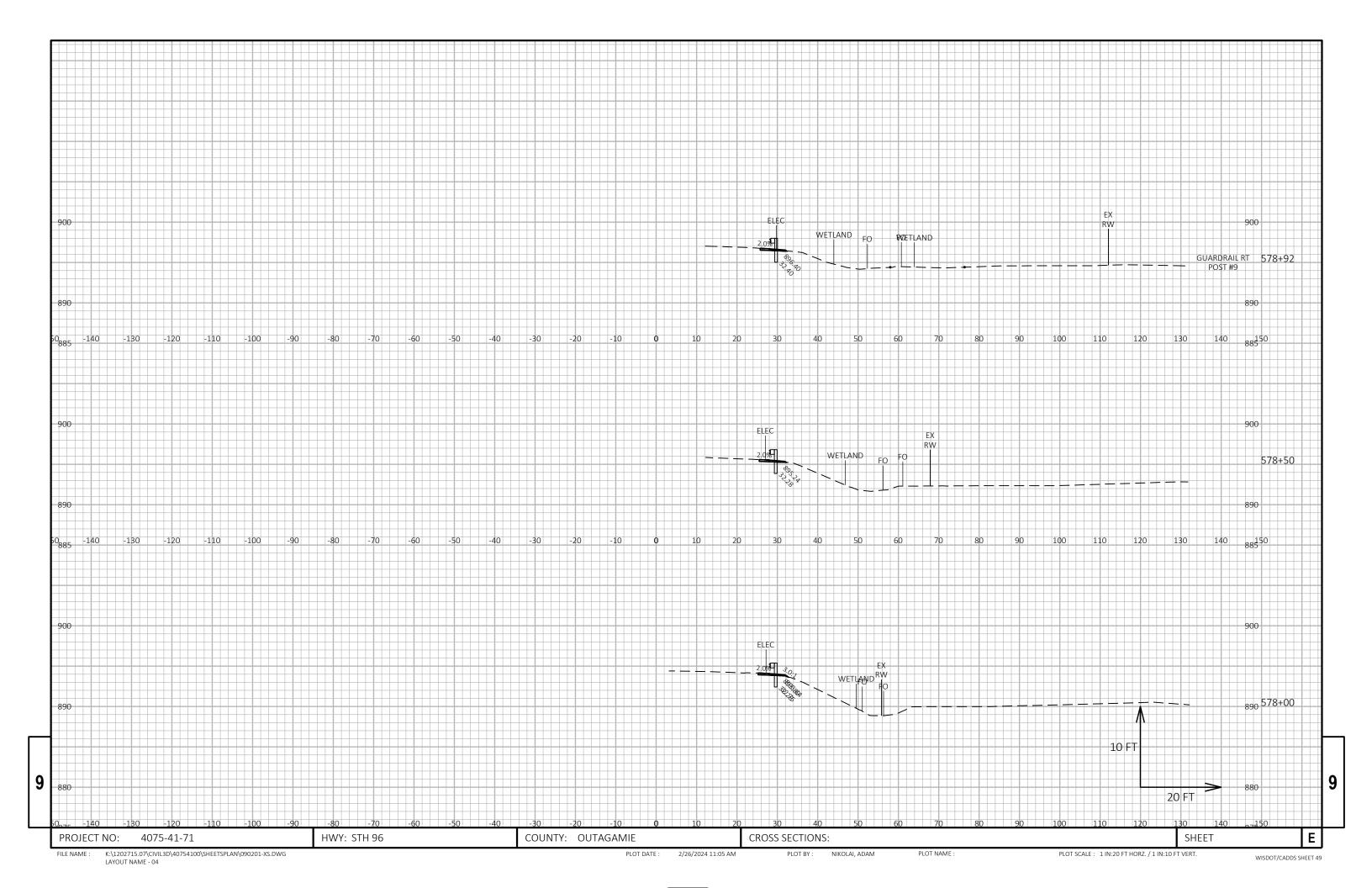
MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

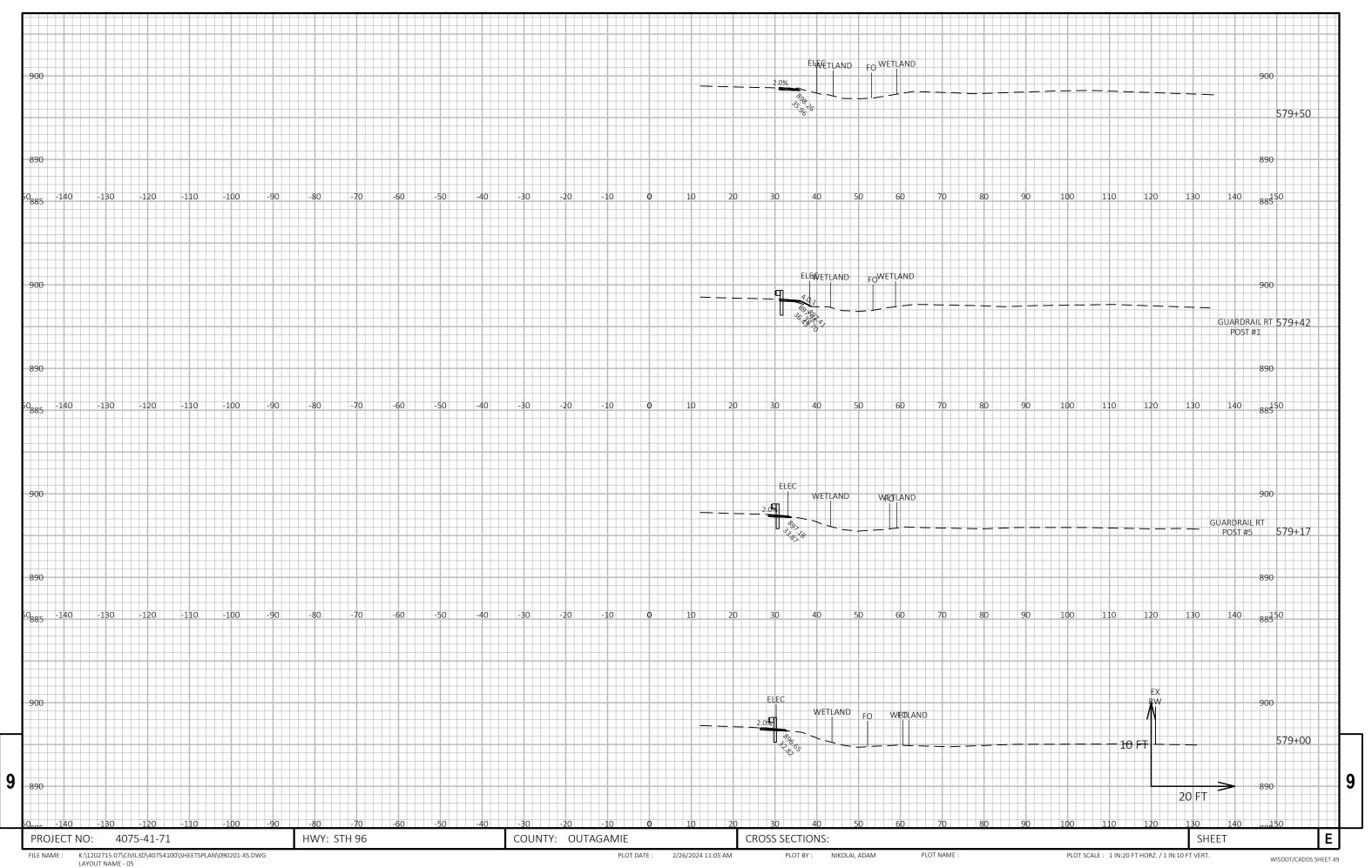
SHEET IV

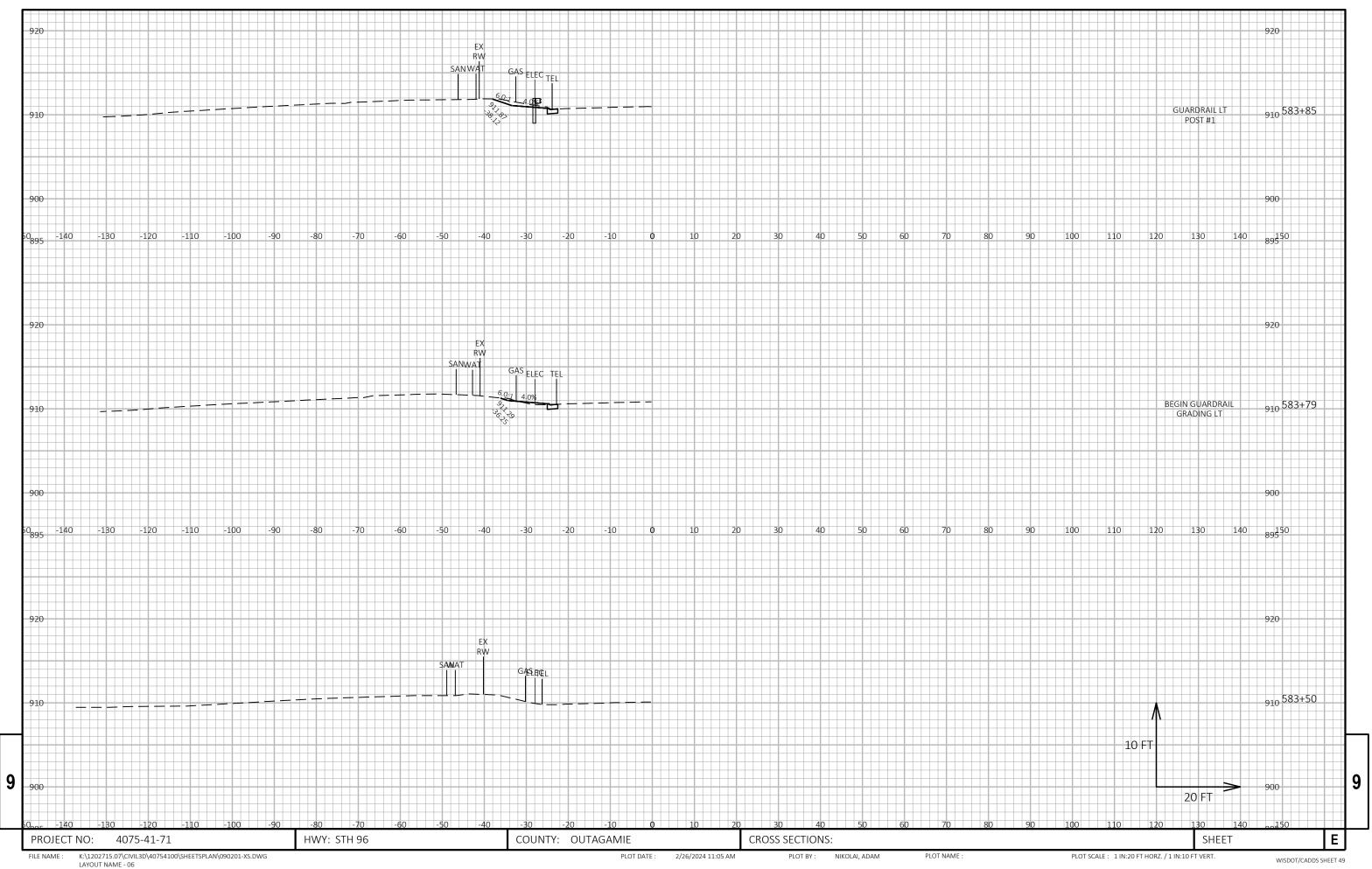




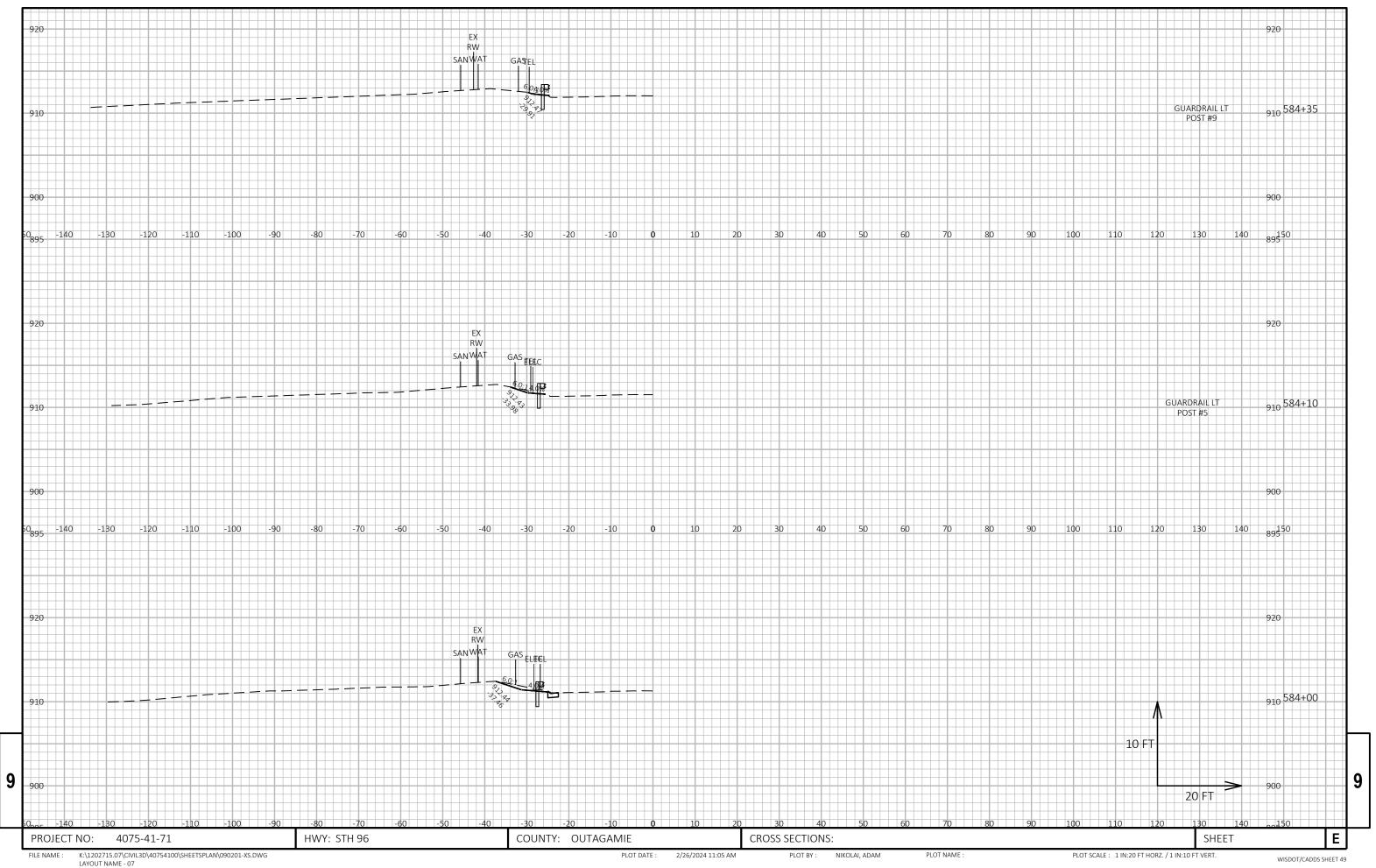


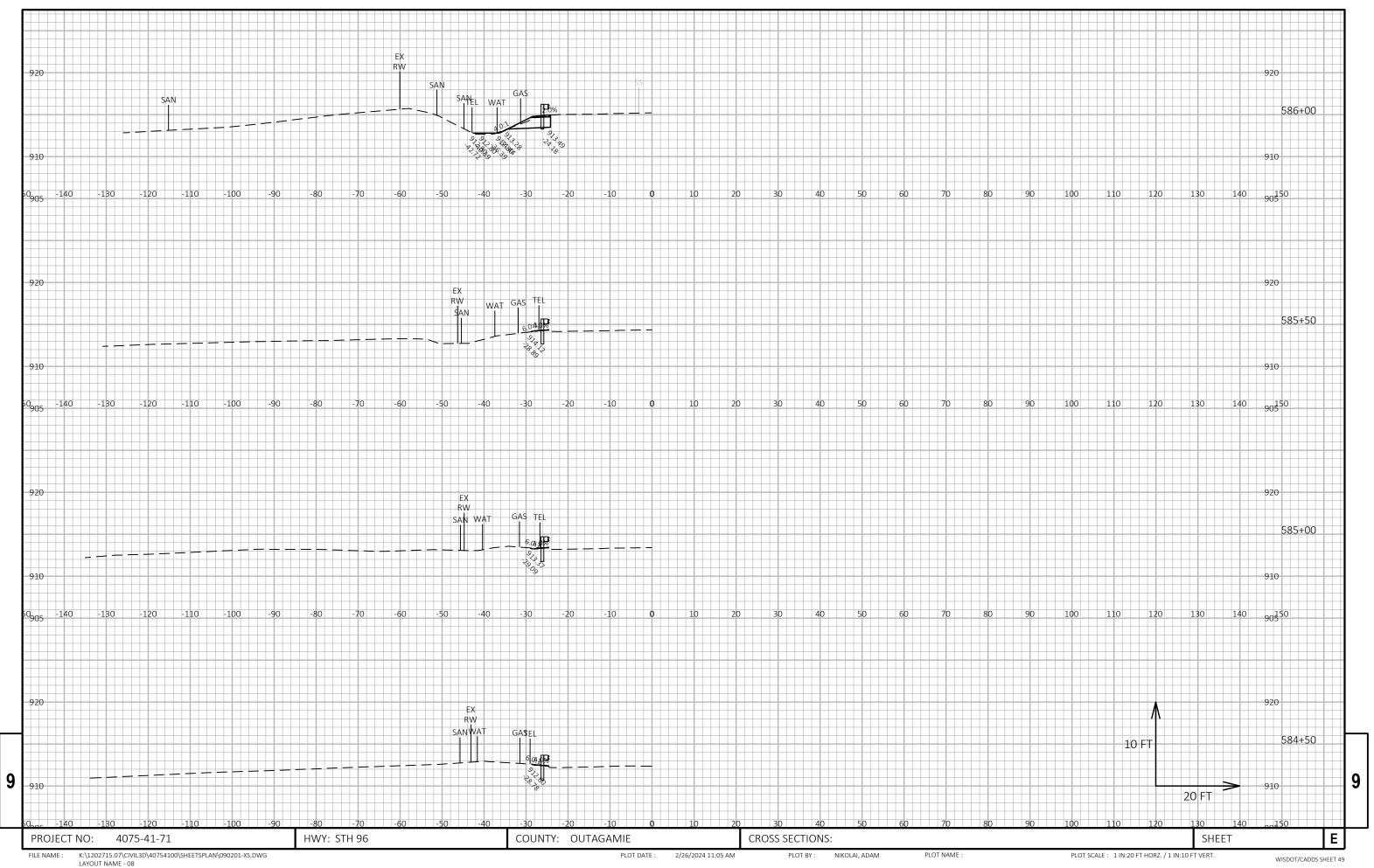


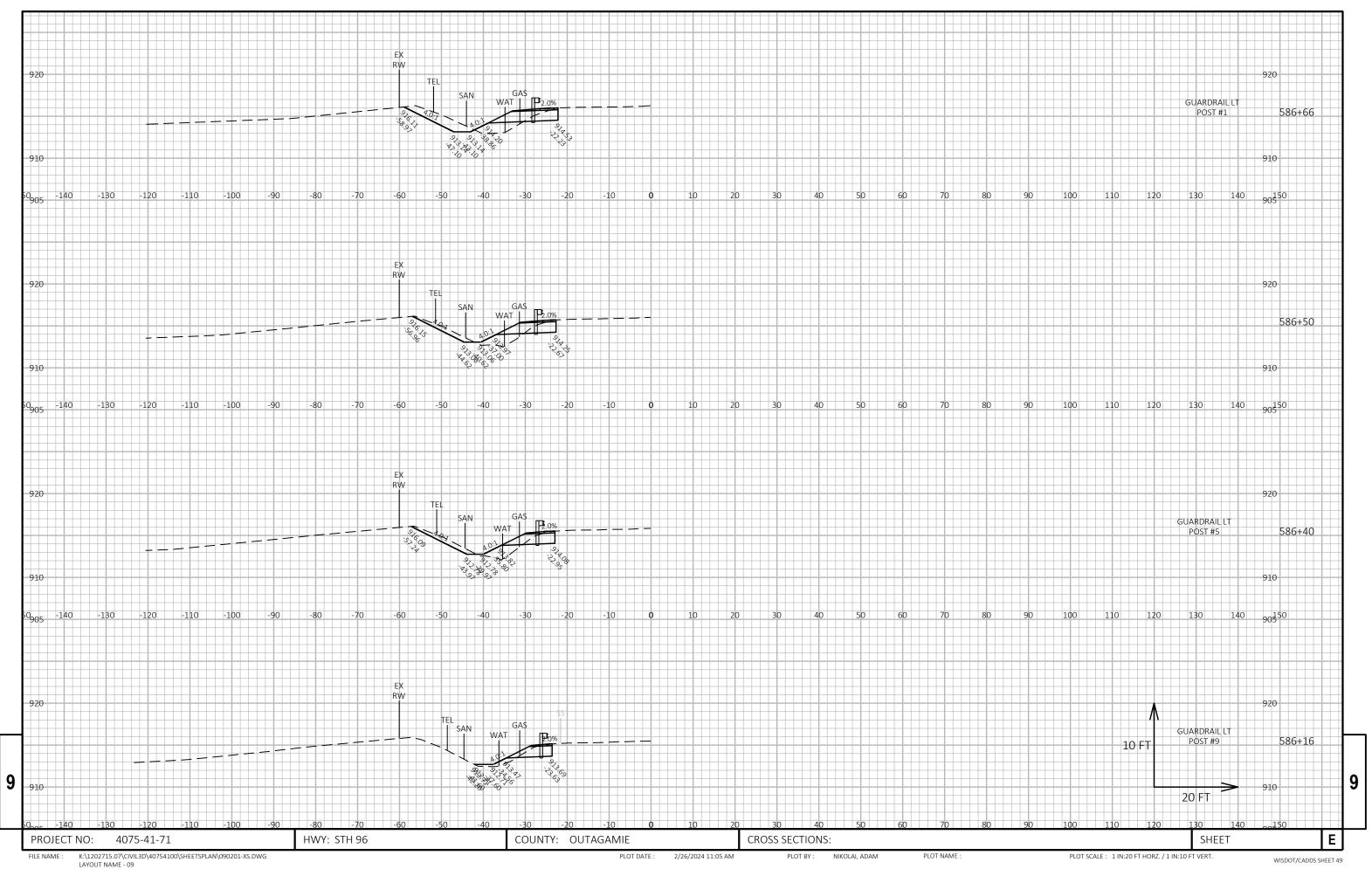




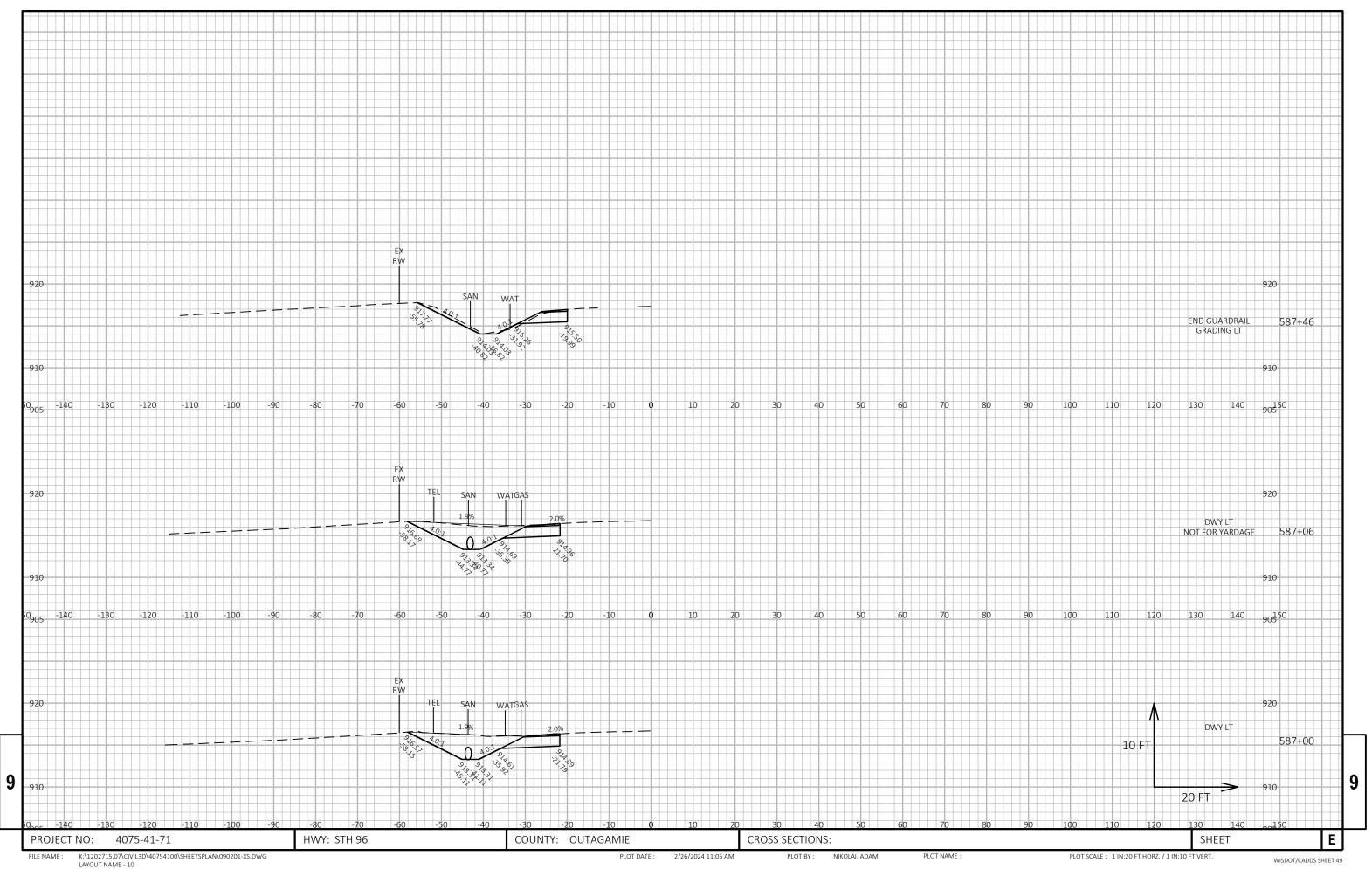
LAYOUT NAME - 06







ENTOUT NAME - 05



EATOUT NAIVE - 10



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