STATE PROJECT STATE OF WISCONSIN ORDER OF SHEETS PROJECT 6190-26-71 Section No. **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Section No. Estimate of Quantities Section No. Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Section No. Plan and Profile Section No. Standard Detail Drawings Section No. **WINNECONNE - USH 45 EAST VILLAGE LIMITS - USH 45 STH 116** TOTAL SHEETS = 68 **WINNEBAGO COUNTY** STATE PROJECT NUMBER 6190-26-71 R-15-E R-16-E 45 Lake Winneconne Alenville DESIGN DESIGNATION AADT 2024 = 8.310 **END PROJECT** A.A.D.T. 2044 = 9,260 **BEGIN PROJECT** = 530 STA 178+25.00 D.H.V. D.D. = 60/40 STA 77+15.00 Y = 507,645.299 = 9.2 Winneconne X = 762,580.264Y = 507,808.186 DESIGN SPEED = 60 X = 752,472.010= 2,100,000 CONVENTIONAL SYMBOLS PROFILE GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOTTINE (To be noted as such) Butte des Morts LIMITED HIGHWAY EASEMENT SPECIAL DITCH STATE OF WISCONSIN EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE DEPARTMENT OF TRANSPORTATION WINNECONNE SLOPE INTERCEPT CULVERT (Profile View) PREPARED BY UTILITIES Lake Butte des Morts REFERENCE LINE Surveyor ELECTRIC Designer EXISTING CULVERT FIBER OPTIC Project Manage PROPOSED CULVERT Regional Examiner SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN TELEPHONE SCALE I COORDINATE REFERENCE SYSTEM (WISCRS), WINNEBAGO COUNTY, NAD83 ( 2011 ). IN U.S. SURVEY FEET, POSITIONS SHOWN ARE GRID PPROVED FOR THE DEPARTMENT MARSH AREA 2/22/24 COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES UTILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = 1.915 MI ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED POWER POLE ₫ TO NAVD 88 ( 2012 ). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A Ø WOODED OR SHRUB AREA TELEPHONE POLE

FILE NAME: N:\PDS\C3D\61902600\SHEETSPLAN\010101-TI.DWG

10/11/2023 3:56 PM

CAMPSHURE, MICHAEL R PLOT NAME:

Bill Bertrand, P.E. (Signature)

SURVEYOR

FEDERAL PROJECT

CONTRACT

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2

**GENERAL NOTES** 

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.

> jeremiah.schiefelbein@wisconsin.gov WINNEBAGO COUNTY HIGHWAY COMMISSIONER

DNR LIAISON

JAY SCHIEFELBEIN

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GREEN BAY, WI 54313

(920) 360-3784

ROBERT DOEMEL 901 W COUNTY RD Y OSHKOSH, WI 54901 (920) 232-1713 rdoemel@co.winnebago.wi.us

NE REGION SURVEY COORDINATOR

MICHAEL ANDRASCHKO, PLS 944 VANDERPERREN WAY GREEN BAY, WI 54304 (920) 492-4166 michael.andraschko@dot.wi.gov

NE REGION DESIGN PROJECT MANAGER

WILLIAM BERTRAND, PE 944 VANDERPERREN WAY GREEN BAY, WI 54304 (920) 360-3124 william.bertrand@dot.wi.gov

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES TYPICAL SECTIONS CONSTRUCTION DETAILS PLAN DETAILS TRAFFIC CONTROL DETOUR PLAN ALIGNMENT PLAN

RUNOFF COEFFICIENT TABLE

						HYDROLOGIC S	OIL GROUP					
			A		В			С			D	
	SLOPI	E RANGE	(PERCENT)	S	LOPE RANG	GE (PERCENT)	SLO	OPE RANG	GE (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:		ı					1	1			1	
ASPHALT						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS						.7585						
ROOFS						.7595						
GRAVEL ROADS, SHO	OULDERS					.4060						

**UTILITIES CONTACTS** 

CHUCK BARTELT AT&T WISCONSIN - COMMUNICATION LINE 70 E DIVISION ST FOND DU LAC, WI 54935 (920) 410-5104 cb1461@att.com

ALLYSA DUCAT ALLIANT ENERGY - ELECTRICITY/GAS/PETROLEUM 880 N WISCONSIN ST BERLIN, WI 54923 (920) 361-5629 & (920) 946-6498 allysaducat@alliantenergy.com

TODD HILDEBRANDT SPECTRUM - COMMUNICATION LINE 165 KNIGHTS WAY FOND DU LAC, WI 54935 (920) 907-7724 & (920) 794-4946 todd.hildebrandt@charter.com

LINDA TREBIATOWSKI WISCONSIN PUBLIC SERVICE CORP - ELECTRICITY 2850 S ASHLAND ST GREEN BAY, WI 54304 (920) 236-5904 & (920) 660-3266 linda.trebiatowski@wisconsinpublicservice.com

ATC MANAGEMENT, INC. - ELECTRICITY/TRANSMISSION PO BOX 47 WAUKESHA, WI 53187 (262) 506-6884 cdailey@atcllc.com

ADAM VANDENHOUTEN WISCONSIN PUBLIC SERVICE CORPORATION - GAS/PETROLEUM 3300 N MAIN ST OSHKOSH, WI 54901 (920) 617-2736 & (920) 660-5548 adam.vandenhouten@wisconsinpublicservice.com

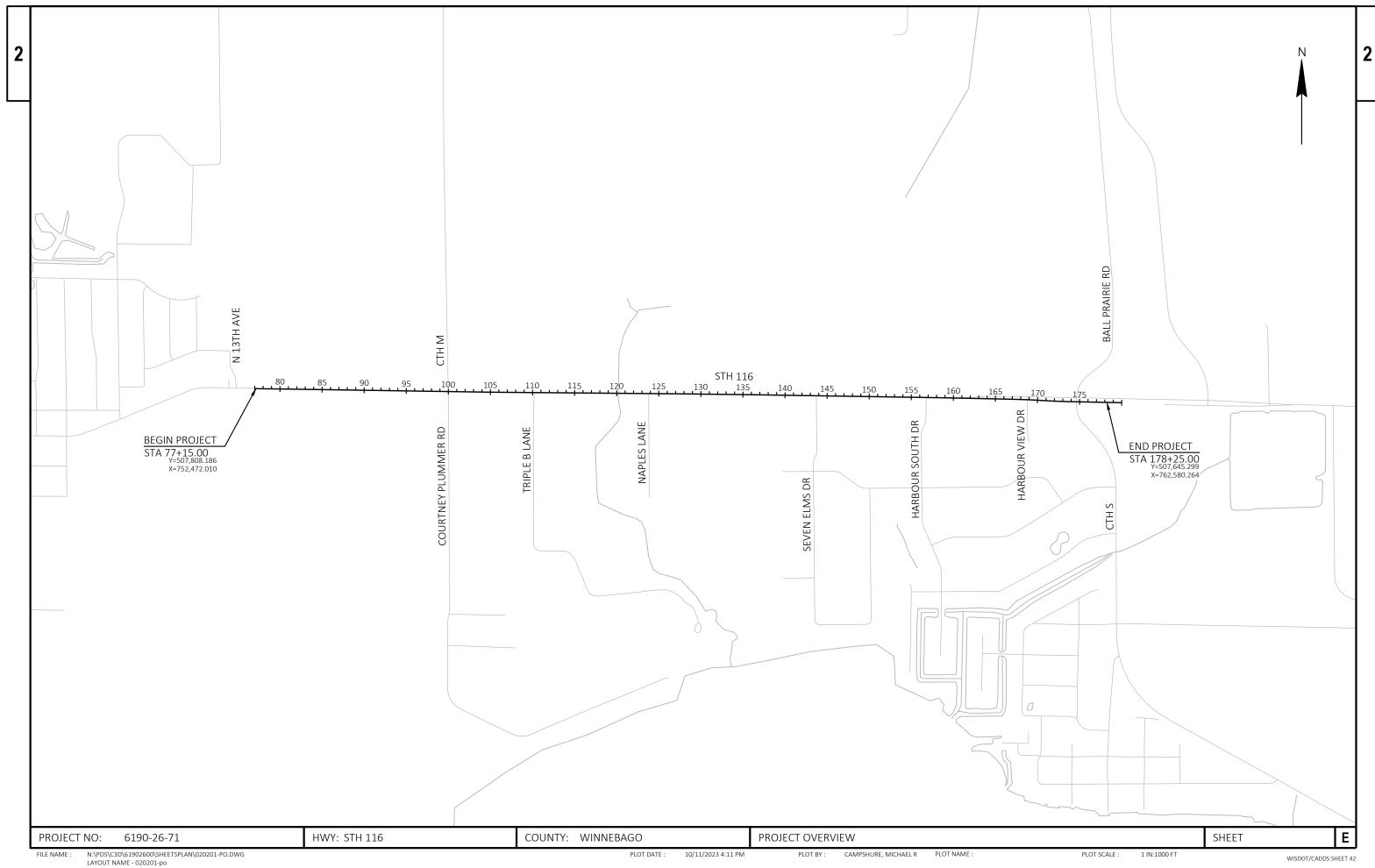


TOTAL PROJECT AREA = 11.8 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.25 ACRES

Ε PROJECT NO: 6190-26-71 HWY: STH 116 COUNTY: WINNEBAGO **GENERAL NOTES** SHEET N:\PDS\C3D\61902600\SHEETSPLAN\020101-GN.DWG 3/27/2024 7:26 AM HEIDEN, BRIAN MATTHE PLOT NAME : 1 IN:10 FT FILE NAME :

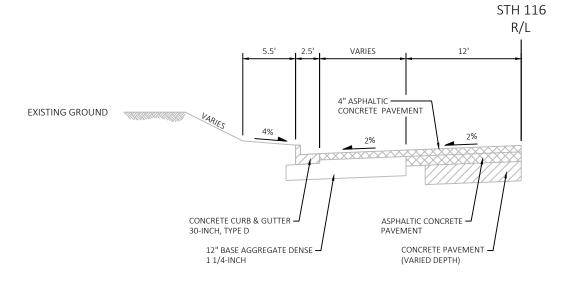
LAYOUT NAME - 020101-gn

PLOT SCALE :



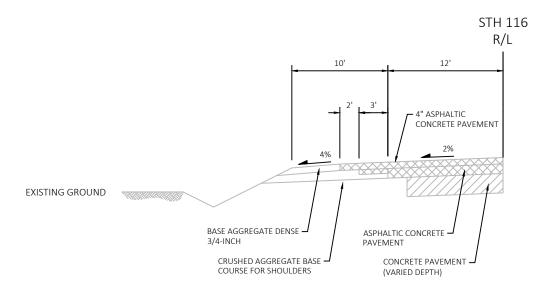


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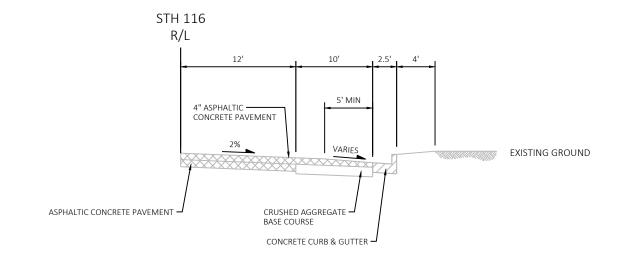
# EXISTING 1/2 TYPICAL SECTION STH 116

STA 77+15 TO STA 82+70 LT STA 77+15 TO STA 79+50 RT



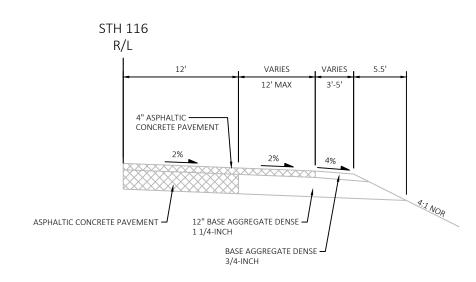
## EXISTING 1/2 TYPICAL SECTION STH 116

STA 83+00 TO STA 98+00 LT & RT STA 128+00 TO STA 139+00 LT & RT STA 145+00 TO STA 161+68.50 LT & RT



# EXISTING 1/2 TYPICAL SECTION STH 116

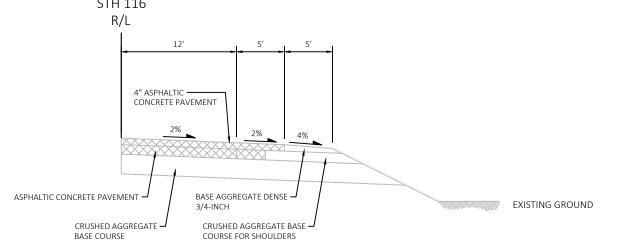
STA 79+50 TO STA 82+50 RT

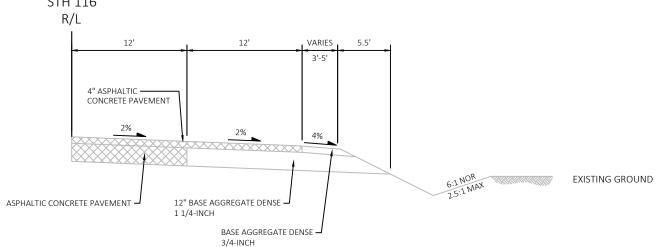


### EXISTING 1/2 TYPICAL SECTION STH 116 FOR RIGHT TURN LANE

STA 96+79 TO STA 98+60 RT STA 102+59 TO STA 106+59 LT

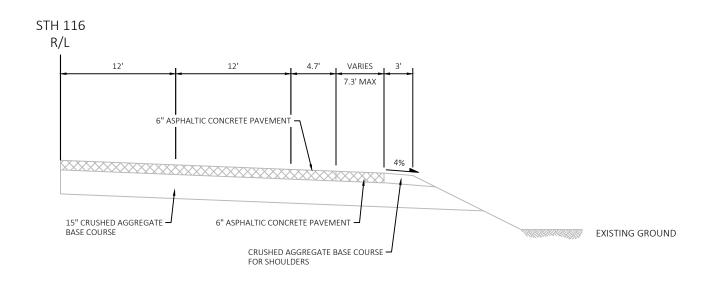
PROJECT NO: 6190-26-71 HWY: STH 116 COUNTY: WINNEBAGO TYPICAL SECTIONS SHEET N:\PDS\C3D\61902600\SHEETSPLAN\020301-TS.DWG PLOT BY: CAMPSHURE, MICHAEL R PLOT NAME: PLOT SCALE: 1IN:10 FT 10/11/2023 4:13 PM FILE NAME : WISDOT/CADDS SHEET 42 STH 116 STH 116





EXISTING 1/2 TYPICAL SECTION STH 116 STA 98+00 TO STA 128+00 STA 135+50 TO STA 145+50

EXISTING 1/2 TYPICAL SECTION STH 116 PASSING LANE STA 152+51.38 TO STA 160+43.38 LT



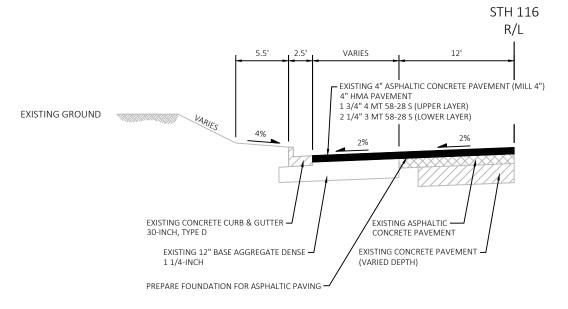
EXISTING 1/2 TYPICAL SECTION STH 116 FOR RIGHT TURN LANE HARBOUR VIEW RD - CTH S

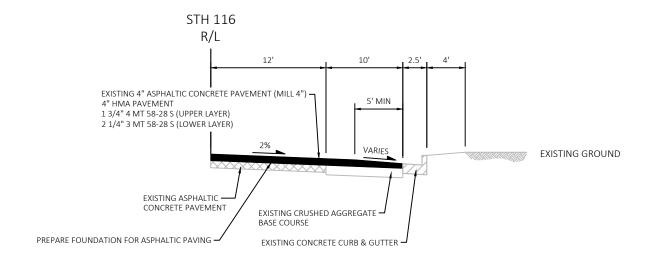
COUNTY: WINNEBAGO Ε PROJECT NO: 6190-26-71 HWY: STH 116 TYPICAL SECTIONS SHEET N:\PDS\C3D\61902600\SHEETSPLAN\020301-TS.DWG

FILE NAME : LAYOUT NAME - 020302-ts

PLOT BY: CAMPSHURE, MICHAEL R PLOT NAME: PLOT SCALE: 1IN:10 FT 10/11/2023 4:13 PM

STH 116 R/L WB ΕB 2.5' 12' 2.5' VARIES VARIES VARIES VARIES 12' 0'-23' 0'-23' 6" ASPHALTIC CONCRETE PAVEMENT (TYP) 4% EXISTING GROUND CRUSHED AGGREGATE BASE COURSE — FOR SHOULDERS (TYP) CONCRETE CURB & GUTTER –30-INCH, TYPE J (TYP) EXISTING GROUND 3 1/2" ASPHALTIC CONCRETE J PAVEMENT (TYP) 15" CRUSHED AGGREGATE — BASE COURSE (TYP) EXISTING TYPICAL SECTION STH 116 STA 161+68.50 TO STA 178+25 Ε HWY: STH 116 COUNTY: WINNEBAGO SHEET PROJECT NO: 6190-26-71 TYPICAL SECTIONS N:\PDS\C3D\61902600\SHEETSPLAN\020301-TS.DWG LAYOUT NAME - 020303-ts FILE NAME : 10/11/2023 4:13 PM PLOT BY: CAMPSHURE, MICHAEL R PLOT NAME: PLOT SCALE: 1IN:10 FT WISDOT/CADDS SHEET 42





FINISHED 1/2 TYPICAL SECTION STH 116

STA 79+50 TO STA 82+50 RT

# FINISHED 1/2 TYPICAL SECTION STH 116

STA 75+62 TO STA 82+70 LT STA 75+07 TO STA 79+50 RT

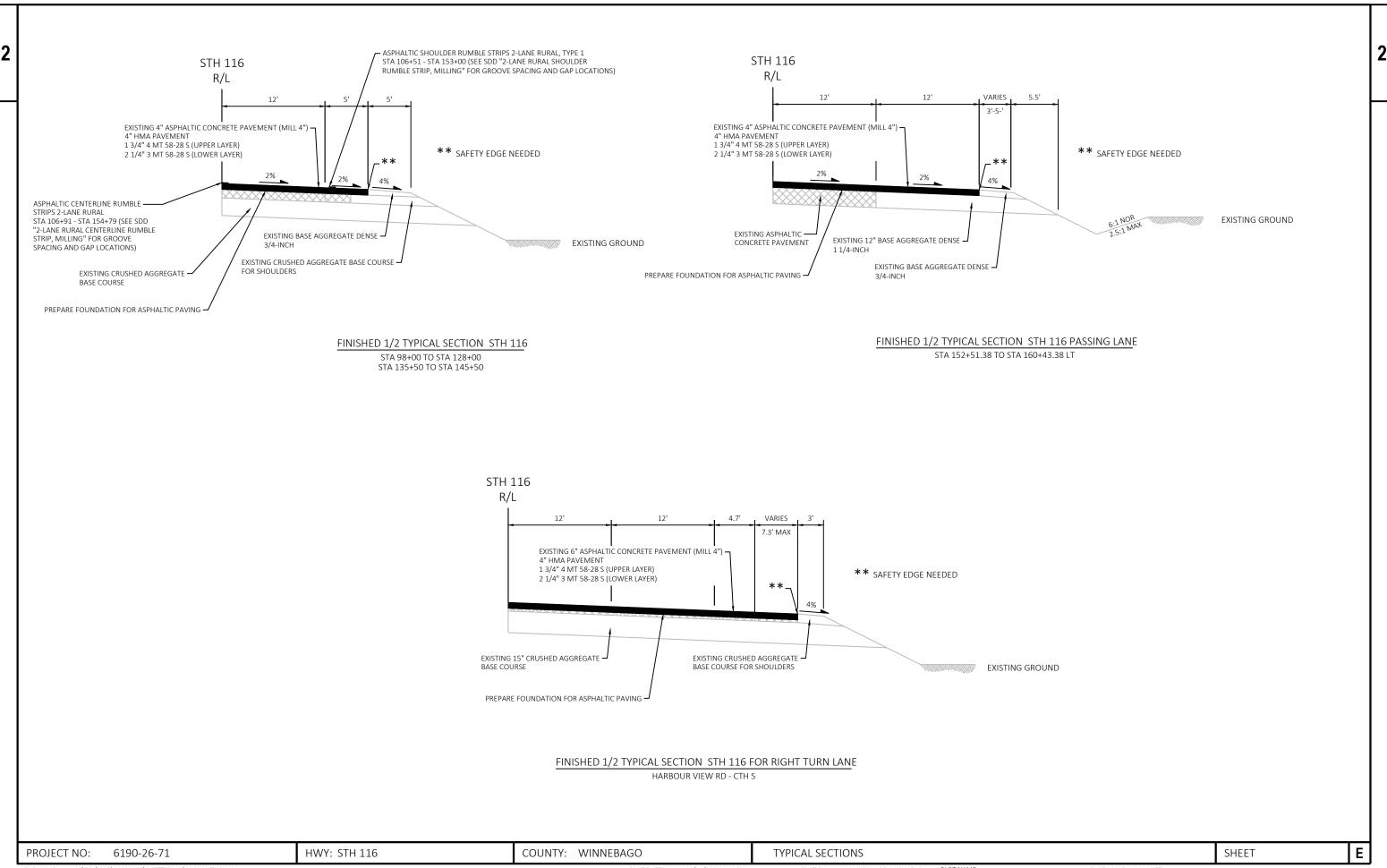
# STH 116 R/L VARIES VARIES 5.5' 12' MAX 3'-5' EXISTING 4" ASPHALTIC CONCRETE PAVEMENT (MILL 4") 4" HMA PAVEMENT 1 3/4" 4 MT 58-28 S (UPPER LAYER) 2 1/4" 3 MT 58-28 S (LOWER LAYER) \*\* SAFETY EDGE NEEDED 4:1<sub>NOR</sub> EXISTING ASPHALTIC -EXISTING 12" BASE AGGREGATE DENSE -CONCRETE PAVEMENT EXISTING BASE AGGREGATE DENSE PREPARE FOUNDATION FOR ASPHALTIC PAVING -3/4-INCH

# STH 116 R/L 12' EXISTING 4" ASPHALTIC CONCRETE PAVEMENT (MILL 4") 4" HMA PAVEMENT 1 3/4" 4 MT 58-28 S (UPPER LAYER) \*\* SAFETY EDGE NEEDED 2 1/4" 3 MT 58-28 S (LOWER LAYER) EXISTING GROUND EXISTING BASE AGGREGATE DENSE -EXISTING ASPHALTIC — CONCRETE PAVEMENT EXISTING CRUSHED AGGREGATE BASE EXISTING CONCRETE PAVEMENT J COURSE FOR SHOULDERS (VARIED DEPTH) PREPARE FOUNDATION FOR ASPHALTIC PAVING

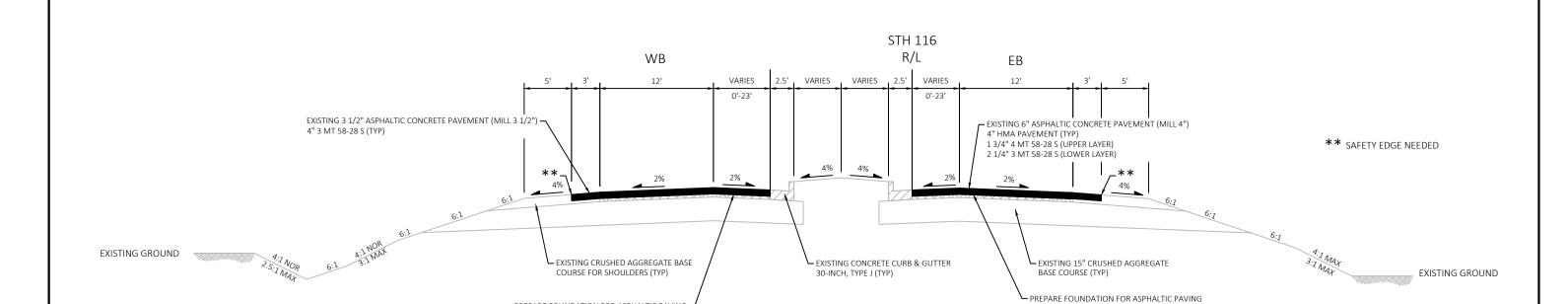
### FINISHED 1/2 TYPICAL SECTION STH 116

STA 83+00 TO STA 98+00 LT & RT STA 128+00 TO STA 139+00 LT & RT STA 145+00 TO STA 161+68.50 LT & RT FINISHED 1/2 TYPICAL SECTION STH 116 FOR RIGHT TURN LANE

STA 96+79 TO STA 98+60 RT STA 102+59 TO STA 106+59 LT







FINISHED TYPICAL SECTION STH 116 STA 161+68.50 TO STA 178+25

PROJECT NO:

HWY: STH 116

COUNTY: WINNEBAGO

PREPARE FOUNDATION FOR ASPHALTIC PAVING

TYPICAL SECTIONS

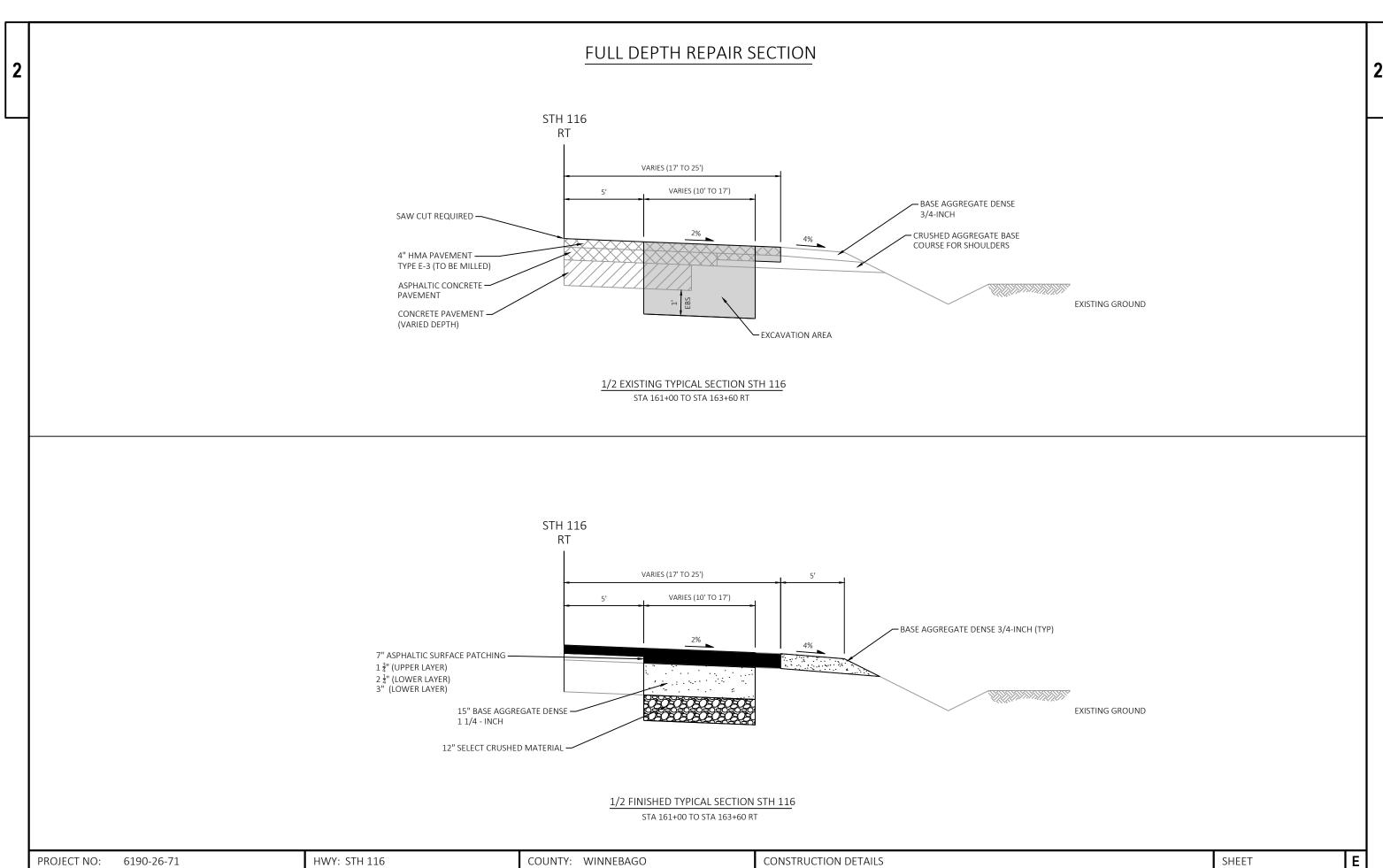
SHEET

PLOT SCALE: 1IN:10 FT

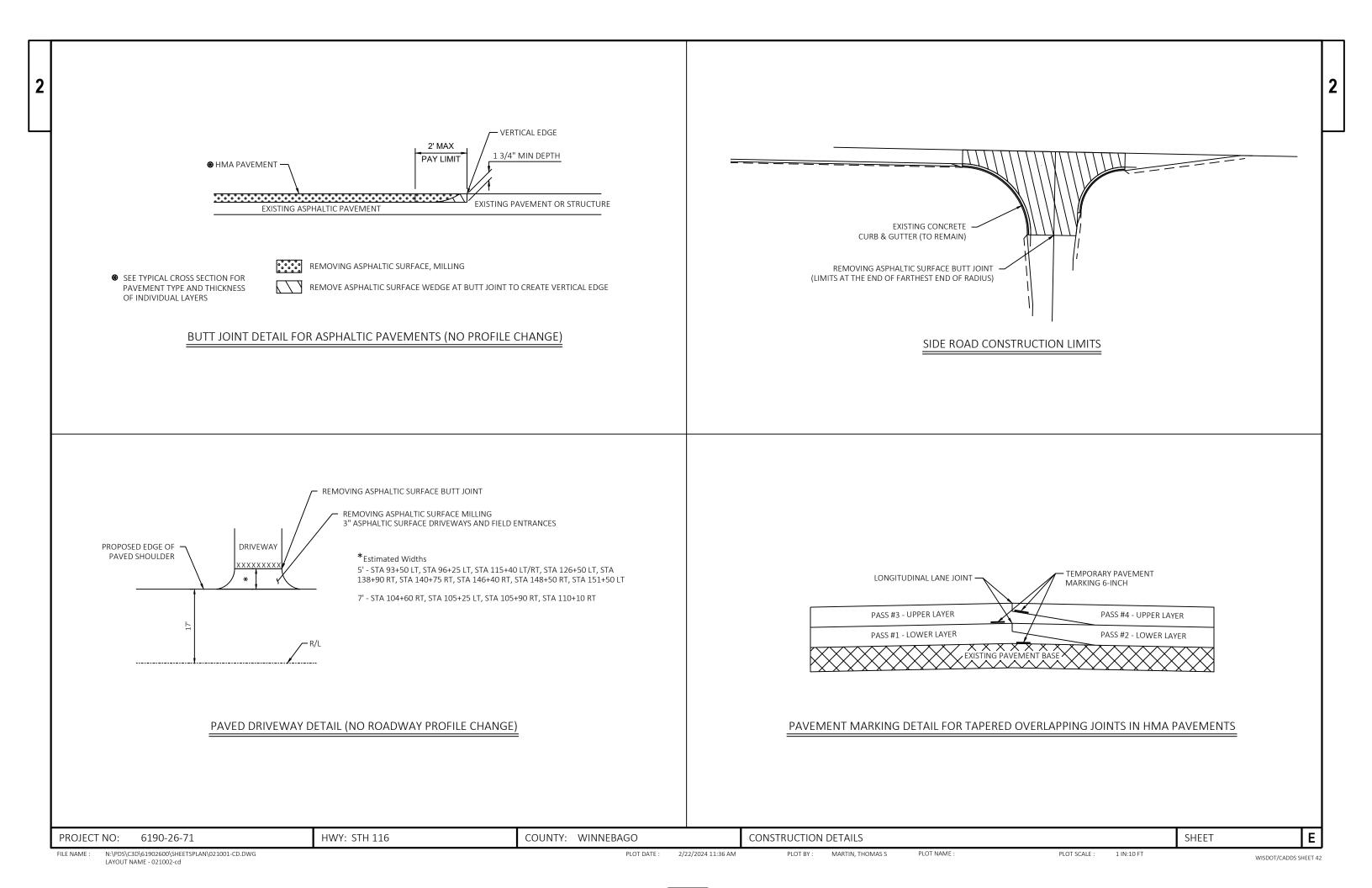
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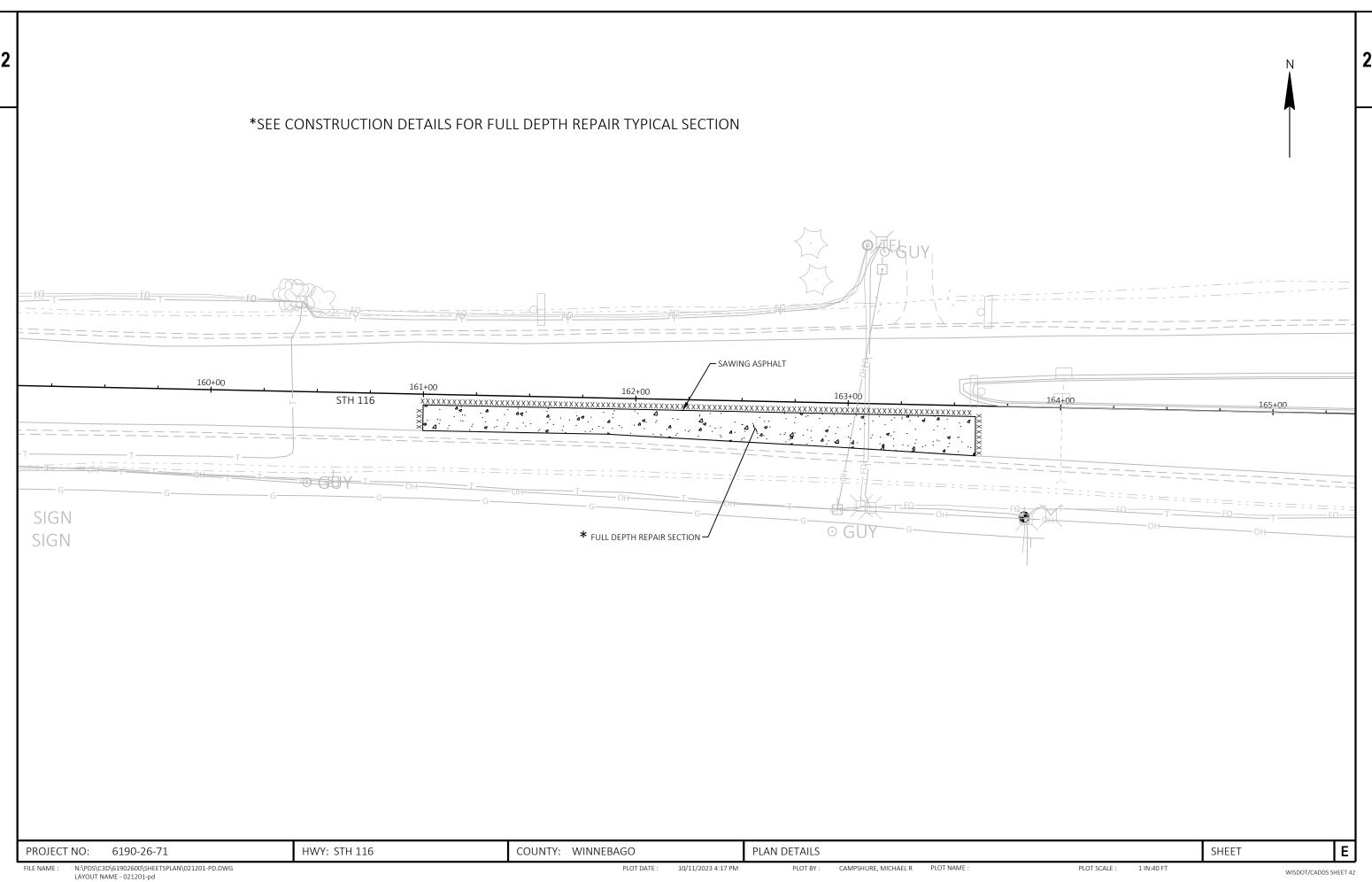
6190-26-71

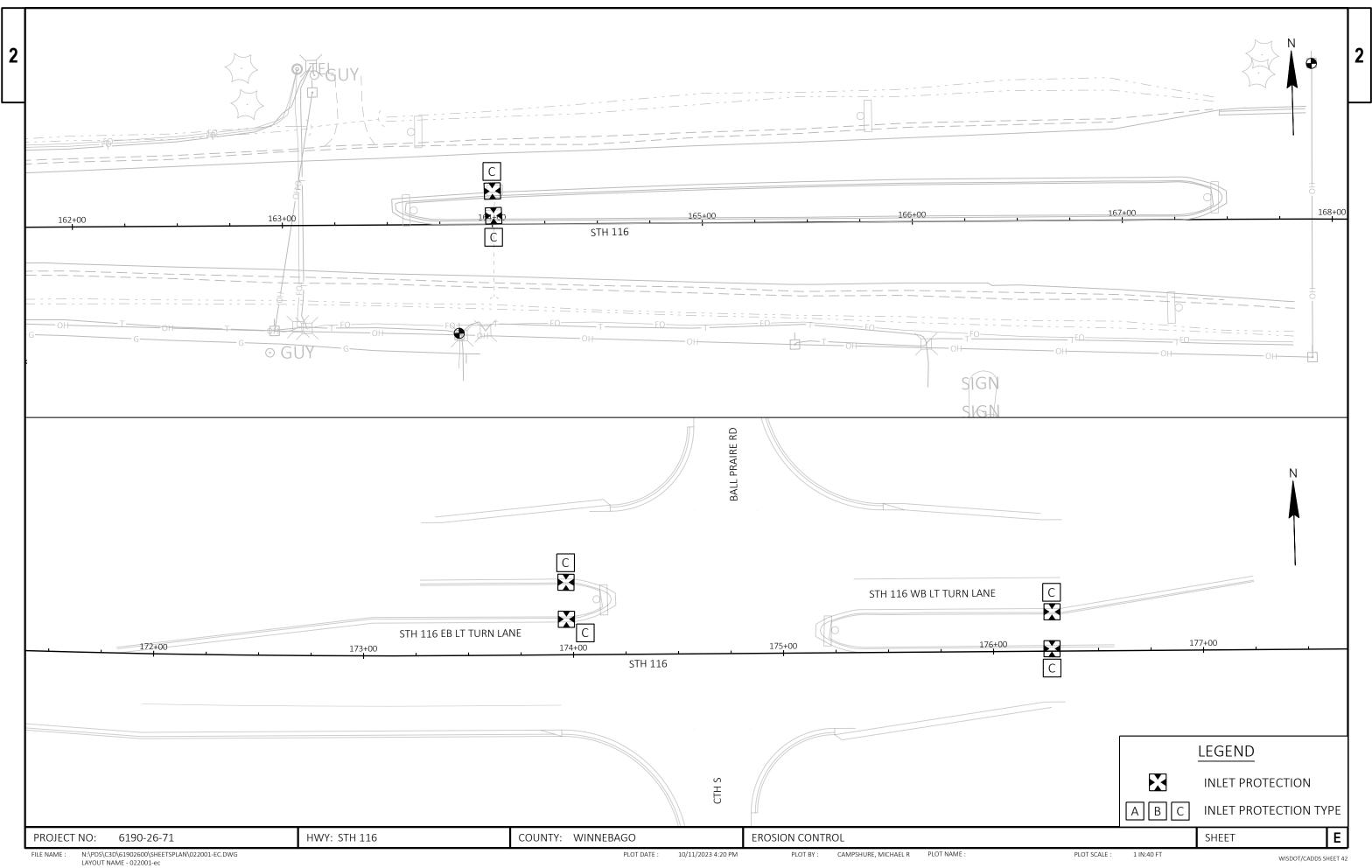
Ε



EATOOT NAME - 021001-cu

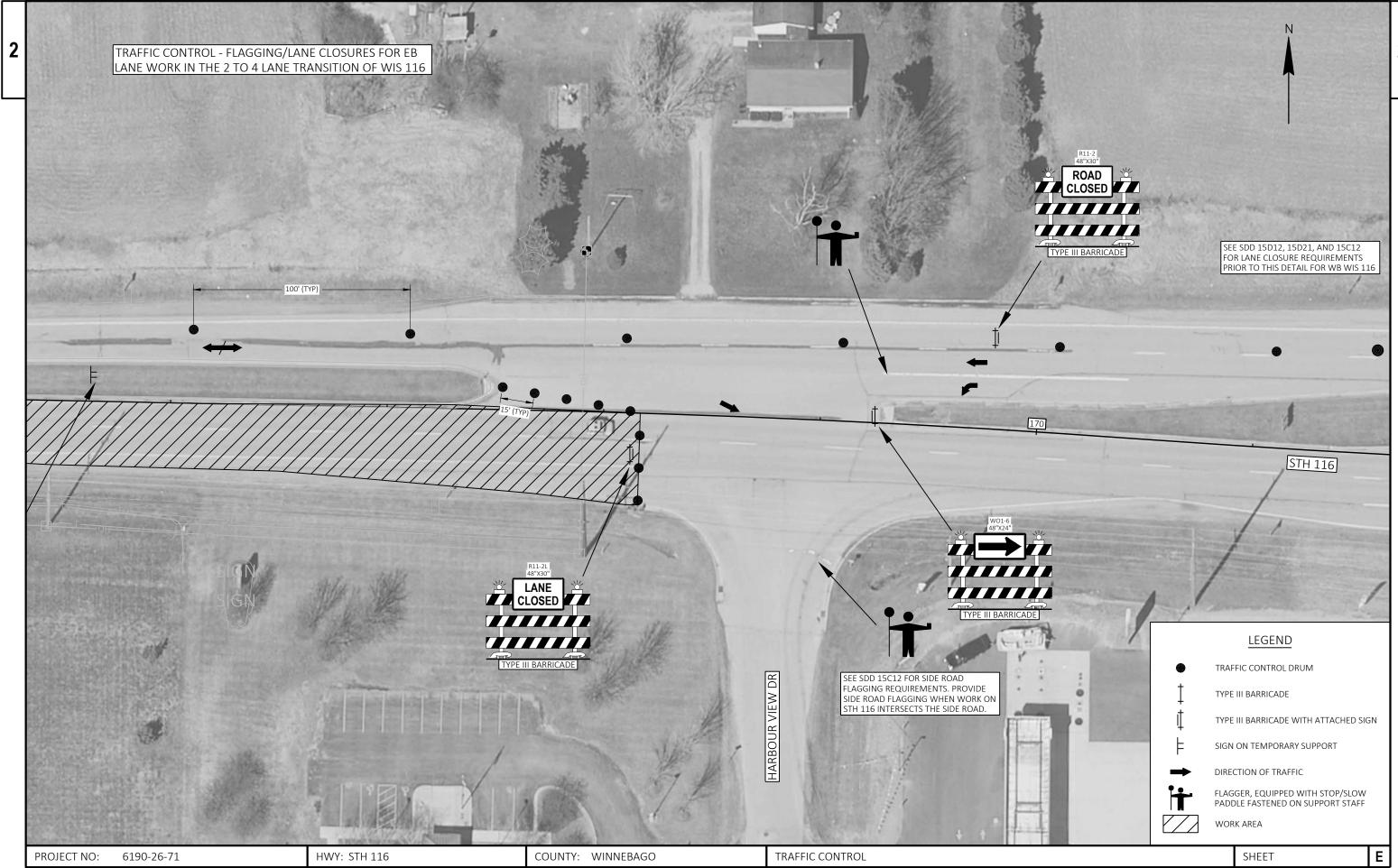








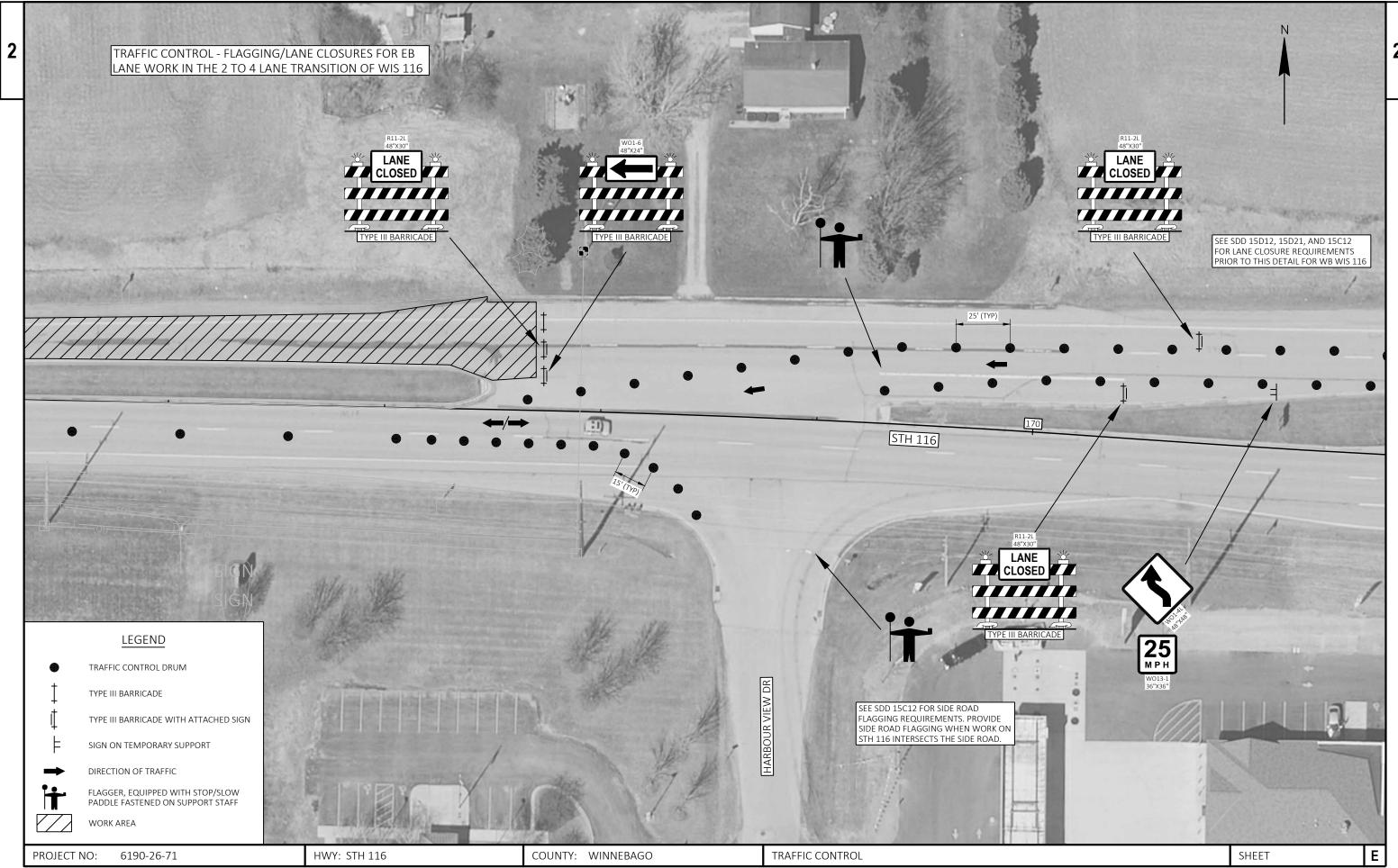
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PLOT DATE: 10/11/2023 4:23 PM
PLOT BY: CAMPSHURE, MICHAEL R
PLOT NAME: PLOT NAME: 1 IN:40 FT
LAYOUT NAME - 026001-tc
WISDOT/CADDS SHEET 42



FILE NAME : N:\PDS\C3D\61902600\SHEETSPLAN\026001-TC.DWG PLOT DATE : 10/11/2023 4:23 PM PLOT BY : CAMPSHURE, MICHAEL R PLOT NAME : PLOT NAME : 1 IN:40 FT LAYOUT NAME - 026002-tc



N:\PDS\C3D\61902600\\$HEETSPLAN\026002-TC.DWG PLOT BY: CAMPSHURE, MICHAEL R PLOT NAME: PLOT SCALE: 1 IN:40 FT LAYOUT NAME - 026003-tc



N:\PDS\C3D\61902600\\$HEETSPLAN\026002-TC.DWG
PLOT DATE: 10/11/2023 4:24 PM
PLOT BY: CAMPSHURE, MICHAEL R
PLOT NAME: PLOT NAME: 1 IN:40 FT
USDOT/CADDS SHEET 42

WISDOT/CADDS SHEET 42

6190-26-71

					0190-20-71
Line	Item	Item Description	Unit	Total	Qty
0002	204.0100	Removing Concrete Pavement	SY	90.000	90.000
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	161.000	161.000
0006	204.0120	Removing Asphaltic Surface Milling	SY	49,675.000	49,675.000
8000	205.0100	Excavation Common	CY	350.000	350.000
0010	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 6190-26-71	EACH	1.000	1.000
0012	213.0100	Finishing Roadway (project) 01. 6190-26-71	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,001.000	1,001.000
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	320.000	320.000
0018	312.0110	Select Crushed Material	TON	230.000	230.000
0020	450.4000	HMA Cold Weather Paving	TON	1,350.000	1,350.000
0022	455.0605	Tack Coat	GAL	5,968.000	5,968.000
0024	460.2000	Incentive Density HMA Pavement	DOL	7,770.000	7,770.000
0026	460.6223	HMA Pavement 3 MT 58-28 S	TON	6,760.000	6,760.000
0028	460.6224	HMA Pavement 4 MT 58-28 S	TON	5,370.000	5,370.000
0030	465.0110	Asphaltic Surface Patching	TON	220.000	220.000
0032	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	49.000	49.000
0034	465.0520	Asphaltic Rumble Strips, Shoulder	LF	7,759.000	7,759.000
0036	465.0560	Asphaltic Rumble Strips, Centerline	LF	4,388.000	4,388.000
0038	618.0100	Maintenance and Repair of Haul Roads (project) 01. 6190-26-71	EACH	1.000	1.000
0040	619.1000	Mobilization	EACH	1.000	1.000
0042	624.0100	Water	MGAL	20.000	20.000
0044	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0046	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0048	628.7015	Inlet Protection Type C	EACH	8.000	8.000
0050	642.5001	Field Office Type B	EACH	1.000	1.000
0052	643.0300	Traffic Control Drums	DAY	444.000	444.000
0054	643.0420	Traffic Control Barricades Type III	DAY	36.000	36.000
0056	643.0800	Traffic Control Arrow Boards	DAY	12.000	12.000
0058	643.0900	Traffic Control Signs	DAY	569.000	569.000
0060	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0062	643.3165	Temporary Marking Line Paint 6-Inch	LF	41,206.000	41,206.000
0064	643.5000	Traffic Control	EACH	1.000	1.000
0066	646.2020	Marking Line Epoxy 6-Inch	LF	115.000	115.000
0068	646.2040	Marking Line Epoxy 6-Inch  Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	23,063.000	23,063.000
0070	646.4040	Marking Line Grooved Wet Ref Epoxy 6-inch	LF	1,535.000	1,535.000
0070	646.4720	Marking Line Grooved Wet Ref Epoxy 10-inch  Marking Line Same Day Epoxy 6-Inch	LF	8,238.000	8,238.000
	646.7120	Marking Diagonal Epoxy 12-Inch	LF		
0074			LF	165.000	165.000
0076	650.4500	Construction Staking Subgrade		260.000	260.000
0078	650.5000	Construction Staking Base	LF	260.000	260.000
0800	650.8000	Construction Staking Resurfacing Reference	LF	10,110.000	10,110.000
0082	690.0150	Sawing Asphalt	LF	292.000	292.000
0084	690.0250	Sawing Concrete	LF	266.000	266.000
0086	740.0440	Incentive IRI Ride	DOL	18,400.000	18,400.000

204.0100 REMOVING CONCRETE PAVE	EMENT
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 ROADWAY
 LOCATION
 LENGTH (FT)
 WIDTH (FT)
 AREA (SF)
 AREA (SY)
 REMARKS

 STH 116 EB
 STA 161+00 to 163+60 RT
 260.00
 3.0
 780.00
 90
 FULL DEPTH REPAIR SECTION

<u>TOTAL</u> <u>90</u>

	204.0115 REMOVING AS	PHALTIC SURFACE BUTT J	OINTS	
STATION	ROADWAY	LOCATION	AREA (SY)	
77+15	STH 116	WEST PROJECT LIMITS	9	
99+90	CTH M	NORTH LIMITS	10	
99+90	OURTNEY PLUMMER ROA	SOUTH LIMITS	4	
123+90	NAPLES LANE	SOUTH LIMITS	7	
156+80	HARBOUR SOUTH DRIVE	SOUTH LIMITS	7	
168+75	HARBOUR VIEW DRIVE	SOUTH LIMITS	7	
174+65	BALL PRAIRIE ROAD	NORTH LIMITS	6	
174+65	CTH S	SOUTH LIMITS	7	
178+25	WB STH 116	EAST PROJECT LIMITS	6	
178+25	EB STH 116	EAST PROJECT LIMITS	6	
-	DRIVEWAYS	PROJECT WIDE	93	
		<u>TOTAL</u>	<u>161</u>	

5.0100 EX	(CAVATION	COMMON
<u>OFFSET</u>	CUT (CY)	<u>REMARKS</u>
RT	247	EXISTING PAVEMENT STRUCTURE
RT	130	EXCAVATION BELOW SUBGRADE
RT	29	REMOVING CONCRETE PAVEMENT (-)
<u>TOTAL</u>	<u>350</u>	
	OFFSET RT RT RT	RT 247 RT 130 RT 29

		204.0120 R	EMOVING ASPHALT	IC SURFACE	MILLING
STATION	<u>TO</u>	STATION	ROADWAY	AREA (SY)	<u>REMARKS</u>
77+15	-	79+50	STH 116	1044	
79+50	-	82+50	STH 116	1467	
82+50	-	83+00	STH 116	223	
83+00	-	98+00	STH 116	5667	
98+00	-	99+90	STH 116	718	
99+90	-	110+40	STH 116	3967	
110+40	-	123+90	STH 116	5100	
123+90	-	128+00	STH 116	1549	
128+00	-	139+00	STH 116	4156	
139+00	-	145+00	STH 116	2267	
145+00	-	156+80	STH 116	4458	
153+00	-	160+25	STH 116 WB	522	PASSING LANE
156+80	-	160+25	STH 116 WB	460	MAINLINE
160+25	-	167+90	STH 116 WB	1530	2 TO 4-LANE TRANSITON
167+50	-	171+90	STH 116 WB	722	MEDIAN/LT TURN LANE
160+25	-	173+25	STH 116 WB	567	SHOULDER
167+90	-	178+25	STH 116 WB	2760	MAINLINE
156+80	-	161+85	STH 116 EB	954	MAINLINE
161+85	-	165+15	STH 116 EB	843	2 TO 4-LANE TRANSITON
165+15	-	178+25	STH 116 EB	3493	MAINLINE
		99+90	STH 116 RT	761	COURTNEY PLUMMER RD
		99+90	STH 116 LT	911	СТН М
		123+90	STH 116 RT	581	NAPLES LN
		156+80	STH 116 RT	861	HARBOUR S DR
		168+75	STH 116 RT	1000	HARBOUR VIEW DR
		174+65	STH 116 RT	889	CTH S
		174+65	STH 116 LT	722	BELL PRAIRIE RD
			<u>TOTAL</u>	<u>49675</u>	

305.01	10 BASE	AGGREGAT	TE DE	NSE 3/4-INC	СН	624.0100 WATER
ROADWAY	RT/LT	STATION	TO	STATION	TON	MGAL
			_			
STH 116 EB	RT	82+50	-	178+25	476	7.1
STH 116 WB	LT	82+75	-	178+25	502	7.5
SIDE ROADS	-	-	-	-	23	0.3
				<u>TOTAL</u>	1,001	<u>15</u>

305.03	120 BASE	Aggregate d	DENSE 1	1 1/4-INCH		624.0100 WATER
ROADWAY	RT/LT	<u>STATION</u>	<u>TO</u>	<u>STATION</u>	<u>TON</u>	<u>MGAL</u>
STH 116 EB	RT	161+00	-	163+60	320	5
				<u>TOTAL</u>	<u>320</u>	<u>5</u>

	312.011	0 SELECT CRUSH	ied matei	RIAL	
ROADWAY STH 116 EB	<u>RT/LT</u> RT	<u>STATION</u> 161+00	<u>TO</u>	<u>STATION</u> 163+60	<u>TONS</u> 230
				TOTAL	<u>230</u>

PROJECT NO: 6190-26-71 HWY: STH 116 COUNTY: WINNEBAGO MISCELLANEOUS QUANTITIES SHEET

FILE NAME: N:\PDS\\C3D\\61902600\SHEETSPLAN\\030201-MQ.DWG PLOT DATE: 2/26/2024 2:33 PM PLOT BY: HEIDEN, BRIAN MATTHE PLOT NAME: PLOT SCALE: 1" = 1' WISDOT/CADDS SHEET 42 LAYOUT NAME - 01

3

			450.4000 HMA	455.0 TACK (		460.6223 HMA	460.6224 HMA	465.0110 ASPHALTIC	465.0120 ASPHALTIC	
			COLD WEATHER PAVING	LOWER LAYER	UPPER LAYER	PAVEMENT 3 MT 58-28 S	PAVEMENT 4 MT 58-28 S	SURFACE PATCHING	SURFACE DRIVEWAYS AND FIELD ENTRANCES	
STATION	<u>TO</u>	STATION ROADWAY	<u>TON</u>	<u>GA</u>	<u>\L</u>	<u>TON</u>	<u>TON</u>	TON	TON	<u>REMARKS</u>
77+15	-	79+50 STH 116	-	73	52	140	110	-	-	
79+50	-	82+50 STH 116	-	103	74	200	160	-	-	
82+50	-	83+00 STH 116	-	15	11	30	20	-	-	
83+00	=	98+00 STH 116	=	397	284	770	610	=	5	
98+00	-	99+90 STH 116	-	50	36	100	80	-	-	
99+90	-	110+40 STH 116	-	278	199	540	430	-	17	
110+40	-	123+90 STH 116	-	357	255	690	550	-	10	
123+90	-	128+00 STH 116	-	109	78	210	170	-	3	
128+00	=	139+00 STH 116	=	291	208	570	450	=	2	
139+00	-	145+00 STH 116	-	159	114	310	240	-	3	
145+00	-	156+80 STH 116	-	312	223	610	480	-	8	
153+00	-	160+253TH 116 WE	-	36	26	70	60	-	-	PASSING LANE
156+80	-	160+253TH 116 WE	-	32	23	60	50	-	-	MAINLINE
160+25	-	167+903TH 116 WE	-	107	77	210	170	-	-	2 TO 4-LANE TRANSITON
160+25	-	163+553TH 116 WE	=	20	14	40	30	-	-	MEDIAN
167+50	=	171+903TH 116 WE	=	50	36	100	80	-	=	MEDIAN/LT TURN LANE
160+25	-	173+253TH 116 WE	-	40	29	80	60	-	-	SHOULDER
174+25	-	178+005TH 116 WE	-	34	24	60	50	-	-	LT TURN LANE
176+15	-	178+253TH 116 WE	-	5	4	10	10	-	-	SHOULDER
167+90	-	178+253TH 116 WE	-	193	138	380	300	-	-	MAINLINE
156+80	-	161+85STH 116 EB	-	67	48	130	100	-	-	MAINLINE
161+00	-	163+60STH 116 EB	-	-	-	-	-	170	-	FULL DEPTH REPAIR SECTION
161+85	-	165+15 STH 116 EB	-	59	42	110	90	-	-	2 TO 4-LANE TRANSITON
171+50	-	175+10STH 116 EB	-	34	24	60	50	-	-	LT TURN LANE
175+10	-	176+80STH 116 EB	-	7	5	10	10	-	-	SHOULDER
175+75	-	178+25 STH 116 EB	=	6	4	10	10	-	-	SHOULDER
165+15	-	178+25 STH 116 EB	-	244	175	480	380	-	-	MAINLINE
		99+90 STH 116 RT	-	53	38	100	80	-	-	COURTNEY PLUMMER RD
		99+90 STH 116 LT	-	64	46	120	100	-	-	CTH M
		123+90STH 116 RT	-	41	29	80	60	-	-	NAPLES LN
		156+80STH 116 RT	-	60	43	120	90	-	-	HARBOUR S DR
		168+75STH 116 RT	-	70	50	140	110	-	-	HARBOUR VIEW DR
		174+65STH 116 RT	-	62	45	120	100	-	-	CTH S
		174+65 STH 116 LT	-	50	36	100	80	-	-	BELL PRAIRIE RD
			1350	-	-	-	-	50	-	PROJECT WIDE
				3,478	2,490					
		TOTAL	<u>1,350</u>	<u>5,9</u>	<u>68</u>	<u>6,760</u>	<u>5,370</u>	220	<u>49</u>	

 ROADWAY
 RT/LT
 STATION
 TO STATION
 LENGTH (LF)
 REMARKS

 STH 116 EB
 RT
 106+51
 120+55
 1,266
 55 MPH POSTED SPEED

 STH 116 EB
 RT
 125+71
 150+45
 2,194
 55 MPH POSTED SPEED

 STH 116 WB
 LT
 106+51
 153+00
 4,299
 55 MPH POSTED SPEED

 TOTAL
 7,759

465.0560 ASPHALTIC RUMBLE STRIPS, CENTERLINE STATION TO <u>STATION</u> LENGTH (LF) <u>REMARKS</u> <u>ROADWAY</u> 1,488 STH 116 106+91 121+79 55 MPH POSTED SPEED 2,900 55 MPH POSTED SPEED STH 116 125+79 -154+79 <u>4,388</u> <u>TOTAL</u>

PROJECT NO: 6190-26-71 HWY: STH 116 COUNTY: WINNEBAGO MISCELLANEOUS QUANTITIES SHEET **E** 

FILE NAME: N:\PDS\C3D\61902600\SHEETSPLAN\030201-MQ.DWG PLOT DATE: 2/26/2024 2:33 PM PLOT BY: HEIDEN, BRIAN MATTHE PLOT NAME: "PLOT NAME: "" = 1" WISDOT/CADDS SHEET 42 LAYOUT NAME - 02

3

628.1905 628.1910 MOBILIZATIONS MOBILIZATIONS EMERGENCY EROSION EROSION CONTROL CONTROL STATION RT/LT EACH EACH REMARKS PROJECT WIDE UNDISTRUBTED **TOTAL** 4 <u>2</u>

628.7015 INLET PROTECTION TYPE C **STATION** RT/LT EACH STH 116 WB RT 3 STH 116 EB LT 3 UNDISTRIBUTED TOTAL 8

									*	
									3165	
								TEMPORAF	RY MARKING	
								LINE PAII	NT 6-INCH	
					YEL	LOW CENTERL	INE			
				SEGMENT	DOUBLE	SINGLE	DASHED	MILLED SURFACE	TOP LOWER LAYER	
ROADWAY	STATION	ТО	STATION	LENGTH (LE)	LENGTH (LF)	LENGTH (LF)	LENGTH (LE)		LAYER LENGTH (LF)	REMARKS
										<u></u>
STH 116	77+15	-	77+50	35	140	=	-	140	140	DOUBLE YELLOW - x2
STH 116	77+50	-	85+50	800	-	800	200	1,000	1,000	SOLID AND SKIPS YELLOW
STH 116	85+50	-	96+00	1,050	-	-	262.5	263	263	SKIPS YELLOW
STH 116	96+00	-	99+50	350	-	-	87.5	88	88	SKIPS YELLOW
STH 116	99+50	-	104+50	500	1,000	-	-	1,000	1,000	DOUBLE YELLOW
STH 116	104+50	-	115+00	1,050	-	1,050	262.5	1,313	1,313	SOLID AND SKIPS YELLOW
STH 116	115+00	-	133+00	1,800	-	-	450	450	450	SKIPS YELLOW
STH 116	133+00	-	141+50	850	-	850	212.5	1,063	1,063	SOLID AND SKIPS YELLOW
STH 116	141+50	-	143+50	200	-	-	50	50	50	SKIPS YELLOW
STH 116	143+50	-	154+50	1,100	-	1,100	275	1,375	1,375	SOLID AND SKIPS YELLOW
STH 116	154+50	-	163+50	900	1,800	-	-	1,800	1,800	DOUBLE YELLOW
								8,540	8,540	
							<u>TOTAL</u>	<u>17,</u>	080	
*Additional	Quantity S	how	n Elsewher	· O						

\*Additional Quantity Shown Elsewhere

	*		643.0300		643.0420		643.0800		643.0900		643.1050	643.5000	
	ESTIMATED DURATION (CALENDER DAYS)	*	TRAFFIC CONTROL DRUMS	*	TRAFFIC CONTROL BARRICADES TYPE III	*	TRAFFIC CONTROL ARROW BOARDS	*	TRAFFIC CONTROL SIGNS	*	TRAFFIC CONTROL SIGNS PCMS	TRAFFIC CONTROL	
OPERATION		EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	REMARKS
PRECONSTRUCTION	7	8	56	-	-	-	-	-	-	2	14	-	
ADVANCED WARNING	25	-	-	-	-	-	-	12	300	-	-	-	DIVIDED SECTIONS OF STH 116 REQUIRE SIGNING ON BOTH SIDES OF ROADWAY
SIDE ROADS	25	-	-	-	-	-	-	7	175	-	-	-	
WIS 116 EB CLOSURE	4	54	216	5	20	2	8	15	60	-	-	-	WIS 116 EB LANE WORK IN THE 2 TO 4 LANE TRANSITION
WIS 116 WB CLOSURE	2	86	172	8	16	2	4	17	34	-	-	-	WIS 116 WB LANE WORK IN THE 2 TO 4 LANE TRANSITION
UNDISTRIBUTED		-	-	-	-	-	-	-	-	-	-	1	
	<u>TOTAL</u>		444		<u>36</u>		<u>12</u>		<u>569</u>		14	<u>1</u>	

HWY: STH 116 COUNTY: WINNEBAGO Ε PROJECT NO: 6190-26-71 MISCELLANEOUS QUANTITIES SHEET FILE NAME: N:\PDS\C3D\61902600\SHEETSPLAN\030201-MQ.DWG PLOT DATE : 2/26/2024 2:33 PM PLOT BY: HEIDEN, BRIAN MATTHE PLOT NAME: PLOT SCALE : 1" = 1' WISDOT/CADDS SHEET 42

LAYOUT NAME - 03

									* 643.3165		
								TEMPORARY	MARKING LINE	PAINT 6-INCH	
				_		WHITE		MILLED	TOP LOWER	FINAL	
				SEGMENT	LEFT EDGELINE	RIGHT EDGELINE	DASHED	SURFACE	LAYER	SURFACE	
ROADWAY	START POINT	<u>TO</u>	END POINT	<u>LENGTH (LF)</u>	LENGTH (LF)	LENGTH (LF)	LENGTH (LF)	LENGTH (LF)	LENGTH (LF)	LENGTH (LF)	<u>REMARKS</u>
STH 116	WEST PROJECT LIMITS	-	CTH M/COURTNEY PLUMMER ROAD	2,285	1,660	1,685	-	-	-	3,345	
STH 116	CTH M/COURTNEY PLUMMER ROAD	-	NAPLES LANE	2,380	2,315	2,255	-	-	=	4,570	
STH 116	NAPLES LANE	-	HARBOUR SOUTH DRIVE	3,295	3,295	3,170	25	-	-	6,490	
STH 116	HARBOUR SOUTH DRIVE	-	TRANSITION FROM 2-LANE TO DIVIDED BEGIN	275	275	220	37.5	-	-	533	
STH 116 WB	TRANSITION FROM 2-LANE TO DIVIDED BEGIN	-	BEGIN CURB AND GUTTER MEDIAN	400	400	-	-	-	-	400	
STH 116 EB	TRANSITION FROM 2-LANE TO DIVIDED BEGIN	-	BEGIN CURB AND GUTTER MEDIAN	400	≡	400	-	=	=	400	
STH 116 WB	BEGIN CURB AND GUTTER MEDIAN	-	HARBOUR VIEW DRIVE	530	535	-	25	25	25	560	MILLED/LOWER LAYER ARE LANE LINE SKIPS
STH 116 EB	BEGIN CURB AND GUTTER MEDIAN	-	HARBOUR VIEW DRIVE	530	=	230	112.5	112.5	112.5	343	MILLED/LOWER LAYER ARE LANE LINE SKIPS
STH 116 WB	HARBOUR VIEW DRIVE	-	CTH S/BALL PRAIRIE ROAD	580	535	-	137.5	137.5	137.5	673	MILLED/LOWER LAYER ARE LANE LINE SKIPS
STH 116 EB	HARBOUR VIEW DRIVE	-	CTH S/BALL PRAIRIE ROAD	580	530	450	112.5	112.5	112.5	1,093	MILLED/LOWER LAYER ARE LANE LINE SKIPS
STH 116 WB	CTH S/BALL PRAIRIE ROAD	-	EAST PROJECT LIMITS	365	140	-	87.5	87.5	87.5	228	MILLED/LOWER LAYER ARE LANE LINE SKIPS
STH 116 EB	CTH S/BALL PRAIRIE ROAD	-	EAST PROJECT LIMITS	365	-	300	75	75	75	375	MILLED/LOWER LAYER ARE LANE LINE SKIPS
								550	550	19,008	
							<u>TOTAL</u>		20,108		
*Additional Qu	uantity Shown Elsewhere										

PROJECT NO: 6190-26-71 HWY: STH 116 COUNTY: WINNEBAGO MISCELLANEOUS QUANTITIES SHEET **E** 

FILE NAME: N:\PDS\\C3D\\61902600\\SHEETSPLAN\\030201-MQ.DWG PLOT DATE: 2/26/2024 2:33 PM PLOT BY: HEIDEN, BRIAN MATTHE PLOT NAME: 1" = 1' WISDOT/CADDS SHEET 42 LAYOUT NAME - 04

								646.4720 MARKING LINE SAME	* 643.3165	
								DAY EPOXY 6-INCH	TEMPORARY MARKING LINE PAINT 6-INCH	
					YEL	LOW CENTERL	INE			
				SEGMENT	DOUBLE	SINGLE	DASHED			
ROADWAY	<u>STATION</u>	<u>TO</u>	<u>STATION</u>	LENGTH (LF)	LENGTH (LF)	LENGTH (LF)	LENGTH (LF)	<u>FINAL SURFACE (LF)</u>	FINAL SURFACE (LF)	<u>REMARKS</u>
CTU 44.6	77.15		77.50	25	1.40			140		DOUBLE VEH OW 12
STH 116	77+15	-	77+50	35	140	-	-	140	-	DOUBLE YELLOW - x2
STH 116	77+50	-	85+50	800	-	800	200	1,000	-	SOLID AND SKIPS YELLOW
STH 116	85+50	-	96+00	1,050	-	-	262.5	263	-	SKIPS YELLOW
STH 116	96+00	-	99+50	350	-	350	87.5	438	-	SOLID AND SKIPS YELLOW
STH 116	99+50	=	103+50	400	800	-	-	800	-	DOUBLE YELLOW
STH 116	103+50	-	115+00	1,050	-	1,150	287.5	416	1,022	SOLID AND SKIPS YELLOW
STH 116	115+00	-	133+00	1,800	-	-	450	-	450	SKIPS YELLOW
STH 116	133+00	-	141+50	850	-	850	212.5	-	1,063	SOLID AND SKIPS YELLOW
STH 116	141+50	-	143+50	200	-	-	50	-	50	SKIPS YELLOW
STH 116	143+50	-	154+50	1,100	=	1,100	275	-	1,375	SOLID AND SKIPS YELLOW
STH 116	154+50	-	160+50	600	1,200	-	-	1,142	58	DOUBLE YELLOW
STH 116	160+50	-	163+50	300	1,200	-	-	1,200	-	DOUBLE YELLOW - x2
STH 116 EB	163+50	-	167+50	400	-	400	-	400	-	SINGLE YELLOW
STH 116 WB	163+50	-	167+50	400	-	400	-	400	-	SINGLE YELLOW
STH 116 EB	169+25	-	174+25	500	-	500	-	500	-	SINGLE YELLOW
STH 116 WB	169+25	-	174+25	500	-	500	-	500	-	SINGLE YELLOW
STH 116 EB	175+25	-	178+25	300	-	300	-	300	-	SINGLE YELLOW
STH 116 WB	175+25	-	178+25	300	-	300	-	300	-	SINGLE YELLOW
CTH M	STH 116	-	NORTH LIMITS	75	80	-	-	80	-	DOUBLE YELLOW
HARBOUR SOUTH DRIVE	SOUTH LIMITS	-	STH 116	85	90	-	-	90	-	DOUBLE YELLOW
HARBOUR VIEW DRIVE	SOUTH LIMITS	-	STH 116 EB	95	80	-	-	80	-	DOUBLE YELLOW
BALL PRAIRIE ROAD	STH 116 WB	-	NORTH LIMITS	130	110	-	-	110	-	DOUBLE YELLOW
CTH S	SOUTH LIMITS	-	STH 116 EB	90	80	-	-	80	-	DOUBLE YELLOW
							TOTAL	<u>8,238</u>	4,018	
*Additional Quantity Shown	Elsewhere								_ <del></del>	

646	.2020 MARKING	3 LIN	IE EPOXY 6-INCH	I	
				WH LEFT EDGELINE	HITE RIGHT EDGELINE
<u>ROADWAY</u>	START POINT	<u>TO</u>	END POINT	<u>LENGT</u>	<u>H (FT)</u>
CTH M	STH 116	-	NORTH LIMITS	-	15
HARBOUR SOUTH DRIVE	SOUTH LIMITS	-	STH 116	-	20
HARBOUR VIEW DRIVE	SOUTH LIMITS	-	STH 116 EB	5	-
BALL PRAIRIE ROAD	STH 116 WB	-	NORTH LIMITS	65	-
CTH S	SOUTH LIMITS	-	STH 116 EB	-	10
				70	45
			TOTAL	1	<u>15</u>

HWY: STH 116 COUNTY: WINNEBAGO Ε SHEET PROJECT NO: 6190-26-71 MISCELLANEOUS QUANTITIES

FILE NAME : N:\PDS\C3D\61902600\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 05 PLOT BY: HEIDEN, BRIAN MATTHE PLOT NAME: PLOT DATE : 2/26/2024 2:33 PM PLOT SCALE : 1" = 1' WISDOT/CADDS SHEET 42

3

646.2040	MARKING LINE	GROOVED	WFT RFF	<b>EPOXY 6-INCH</b>

				SEGMENT	LEFT EDGELINE	WHITE RIGHT EDGELINE	DASHED	YELLOW CENTERLINE	TOTAL	
ROADWAY	START POINT	<u>TO</u>	END POINT	LENGTH (FT)	LENGTH (FT)	LENGTH (FT)	LENGTH (FT)	LENGTH (FT)	LENGTH (LF	REMARKS
STH 116	WEST PROJECT LIMITS	=	CTH M/COURTNEY PLUMMER ROAD	2,285	1,660	1,685	-	=	3,345.0	
STH 116	CTH M/COURTNEY PLUMMER ROAD	-	NAPLES LANE	2,380	2,315	2,255	-	-	4,570.0	
STH 116	NAPLES LANE	-	HARBOUR SOUTH DRIVE	3,295	3,295	3,170	25.0	-	6,490.0	
STH 116	HARBOUR SOUTH DRIVE	-	TRANSITION FROM 2-LANE TO DIVIDED BEGIN	275	275	220	37.5	-	532.5	
STH 116 WB	TRANSITION FROM 2-LANE TO DIVIDED BEGIN	-	BEGIN CURB AND GUTTER MEDIAN	400	400	-	-	-	400.0	
STH 116 EB	TRANSITION FROM 2-LANE TO DIVIDED BEGIN	-	BEGIN CURB AND GUTTER MEDIAN	400	-	400	-	-	400.0	
STH 116 WB	BEGIN CURB AND GUTTER MEDIAN	-	HARBOUR VIEW DRIVE	530	535	-	-	-	535.0	
STH 116 EB	BEGIN CURB AND GUTTER MEDIAN	-	HARBOUR VIEW DRIVE	530	-	230	112.5	-	342.5	
STH 116 WB	HARBOUR VIEW DRIVE	-	CTH S/BALL PRAIRIE ROAD	580	535	-	150.0	-	685.0	
STH 116 EB	HARBOUR VIEW DRIVE	-	CTH S/BALL PRAIRIE ROAD	580	530	450	137.5	-	1,117.5	
STH 116 WB	CTH S/BALL PRAIRIE ROAD	-	EAST PROJECT LIMITS	365	140	-	87.5	-	227.5	
STH 116 EB	CTH S/BALL PRAIRIE ROAD	-	EAST PROJECT LIMITS	365	-	300	100.0	-	400.0	
STH 116	106+91	-	121+79	-	-	=	-	1,297	1,297.0	OVER RUMBLE STRIPS
STH 116	125+76	-	154+79	-	-	-	-	2,721	2,721.0	OVER RUMBLE STRIPS
							<u>TOTAL</u>		23,063	

	646.4040	) MARKING	G LINE GROOVED WET REF EPOXY 10-INCH		
ROADWAY	START POINT	<u>TO</u>	END POINT	WHITE LENGTH (LF)	<u>REMARKS</u>
STH 116	WEST PROJECT LIMITS	-	CTH M/COURTNEY PLUMMER ROAD	200	RIGHT TURN LANE CHANNELIZATION
STH 116	CTH M/COURTNEY PLUMMER ROAD	-	NAPLES LANE	545	LEFT AND RIGH TURN LANE CHANNELIZATION
STH 116	NAPLES LANE	-	HARBOUR SOUTH DRIVE	180	RIGHT TURN LANE CHANNELIZATION
STH 116 WB	HARBOUR VIEW DRIVE	-	CTH S/BALL PRAIRIE ROAD	115	LEFT TURN LANE CHANNELIZATION
STH 116 EB	HARBOUR VIEW DRIVE	=	CTH S/BALL PRAIRIE ROAD	375	LEFT AND RIGH TURN LANE CHANNELIZATION
STH 116 WB	CTH S/BALL PRAIRIE ROAD	-	EAST PROJECT LIMITS	120	LEFT TURN LANE CHANNELIZATION
			TOTA	<u>sL 1,535</u>	

646.7120 MARKING DIAGONAL EPOXY 12-INCH LENGTH (LF) REMARKS ROADWAY TO STA STH 116 160+50 - 163+50 165 YELLOW <u>TOTAL</u> <u> 165</u>

HWY: STH 116 COUNTY: WINNEBAGO SHEET Ε PROJECT NO: 6190-26-71 MISCELLANEOUS QUANTITIES FILE NAME : N:\PDS\C3D\61902600\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 06 PLOT DATE : 2/26/2024 2:33 PM PLOT SCALE : 1" = 1'

PLOT BY: HEIDEN, BRIAN MATTHE PLOT NAME:

			650.4500	650.5000
			CONSTRUCTION STAKING SUBGRADE	CONSTRUCTION STAKING BASE
<u>STATION</u>	<u>TO</u>	<u>STATION</u>	<u>LF</u>	<u>LF</u>
161+00	-	163+60	260	260
		<u>TOTAL</u>	<u>260</u>	<u>260</u>

				650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE
STATION	<u>TO</u>	STATION		<u>LF</u>
77+15	-	77+50		35
77+50	-	85+50		800
85+50	-	96+00		1,050
96+00	-	99+50		350
99+50	-	104+50		500
104+50	-	115+00		1,050
115+00	-	133+00		1,800
133+00	-	141+50		850
141+50	-	143+50		200
143+50	-	154+50		1,100
154+50	-	163+50		900
163+50	-	178+25		1475
			<u>TOTAL</u>	<u>10110</u>

			690.0150 SAWING ASPHALT	690.0250 SAWING CONCRETE	
APPROXIMATE STATION	OFFSET	LOCATION	<u>LF</u>	<u>LF</u>	<u>REMARKS</u>
161+00	RT	STH 116	12	3	FULL DEPTH REPAIR SECTION
161+00 to 163+60	RT	STH 116	260	260	FULL DEPTH REPAIR SECTION
163+60	RT	STH 116	20	3	FULL DEPTH REPAIR SECTION
		<u>TOTAL</u>	<u>292</u>	<u>266</u>	

PLOT SCALE : 1" = 1'

COUNTY: WINNEBAGO HWY: STH 116 SHEET Ε PROJECT NO: 6190-26-71 MISCELLANEOUS QUANTITIES PLOT BY: HEIDEN, BRIAN MATTHE PLOT NAME:

PLOT DATE : 2/26/2024 2:33 PM

FILE NAME : N:\PDS\C3D\61902600\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 07







N:\PDS\C3D\61902600\SHEETSPLAN\050201-PN.DWG LAYOUT NAME - 050203-pn

1 IN:100 FT



LAYOUT NAME - 050204-pn

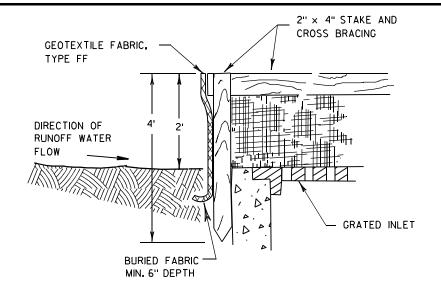
PLOT DATE :

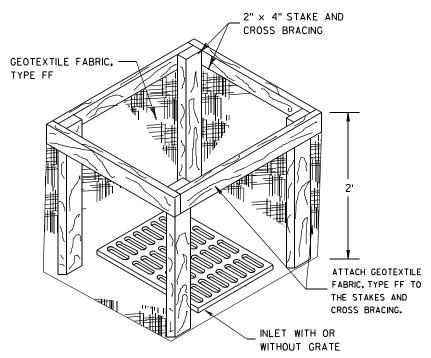
PLOT SCALE :

# Standard Detail Drawing List

13A10-03A SHOULDER RUMBLE STRIPS - ASPHALT 13A10-03G SHOULDER AND EDGE LINE RUMBLE STRIPS - CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS	
13A10-03H SHOULDER AND EDGE LINE RUMBLE STRIPS - RAILROAD, PASSING, CLIMBING AND BYPASS LANES	
13A11-04A CENTERLINE RUMBLE STRIPS - ASPHALT	
13A11-04D CENTERLINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAILROADS	
13C19-03 HMA LONGITUDINAL JOINTS	
14B29-01 SAFETY EDGE	
15CO4-05 TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO	ΓRAFFIC
15C08-23A PERMANENT LONGITUDINAL PAVEMENT MARKINGS	
15C08-23B TEMPORARY LONGITUDINAL PAVEMENT MARKING	
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	
15C12-09B TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE	
15C19-08A MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
15C19-08C MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY	
15C21-11 SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS	
15D12-12A TRAFFIC CONTROL, LANE CLOSURE, WITH TEMPORARY RUMBLE STRIPS	
15D2O-07A TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY	
15D21-07A TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE	
15D21-07B TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE	
15D27-03 TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH	
15D28-04 TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY	
15D44-02 TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES	
15D45-03 TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL	

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INLET PROTECTION, TYPE A

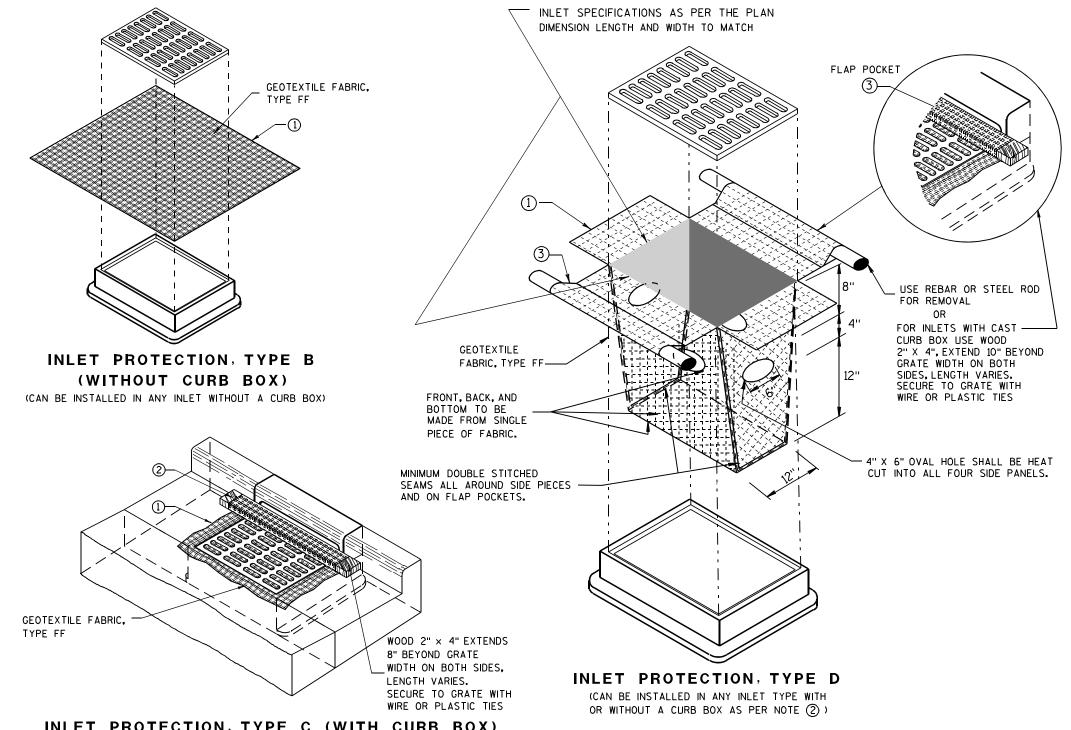
## **GENERAL NOTES**

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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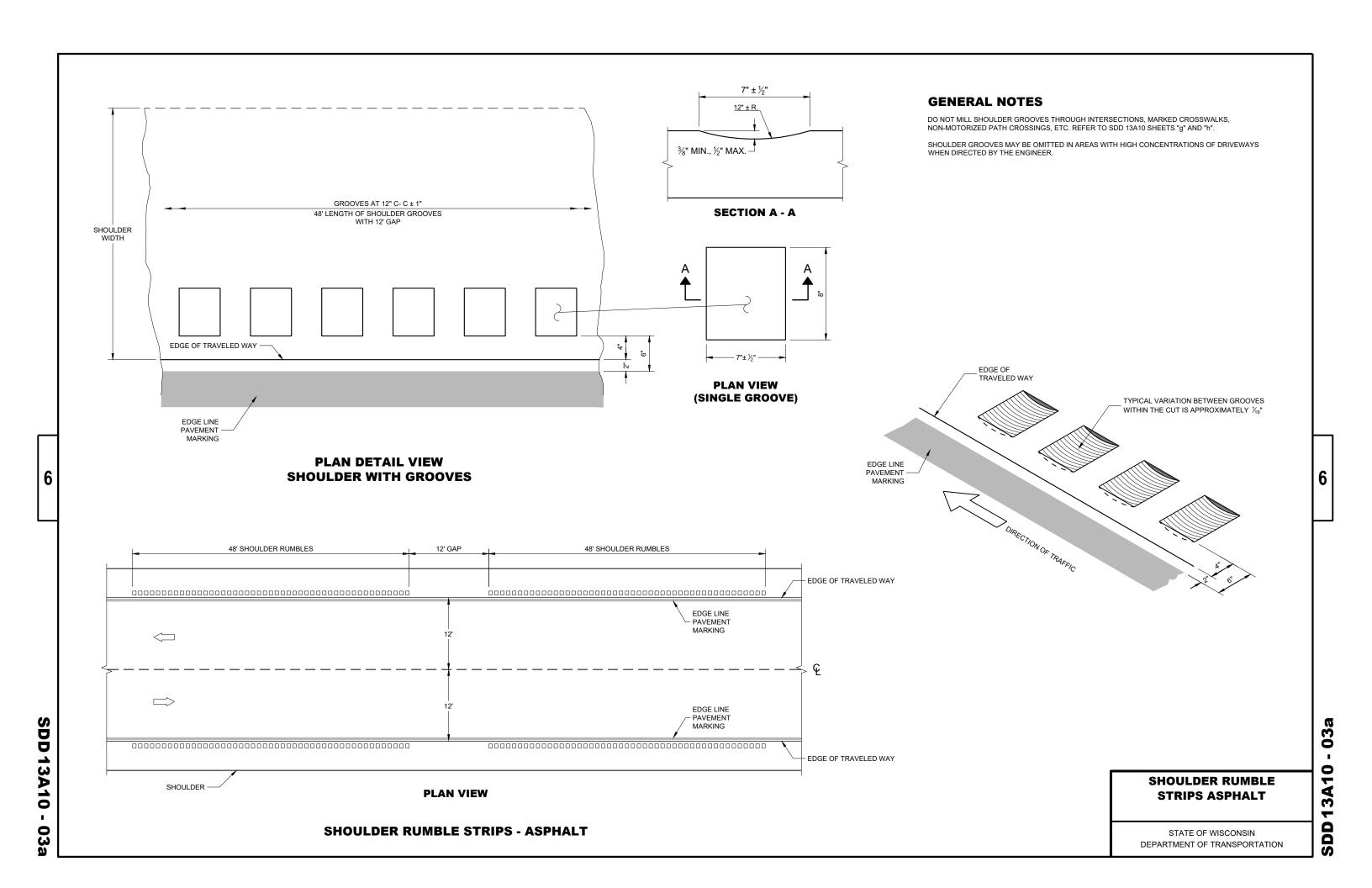
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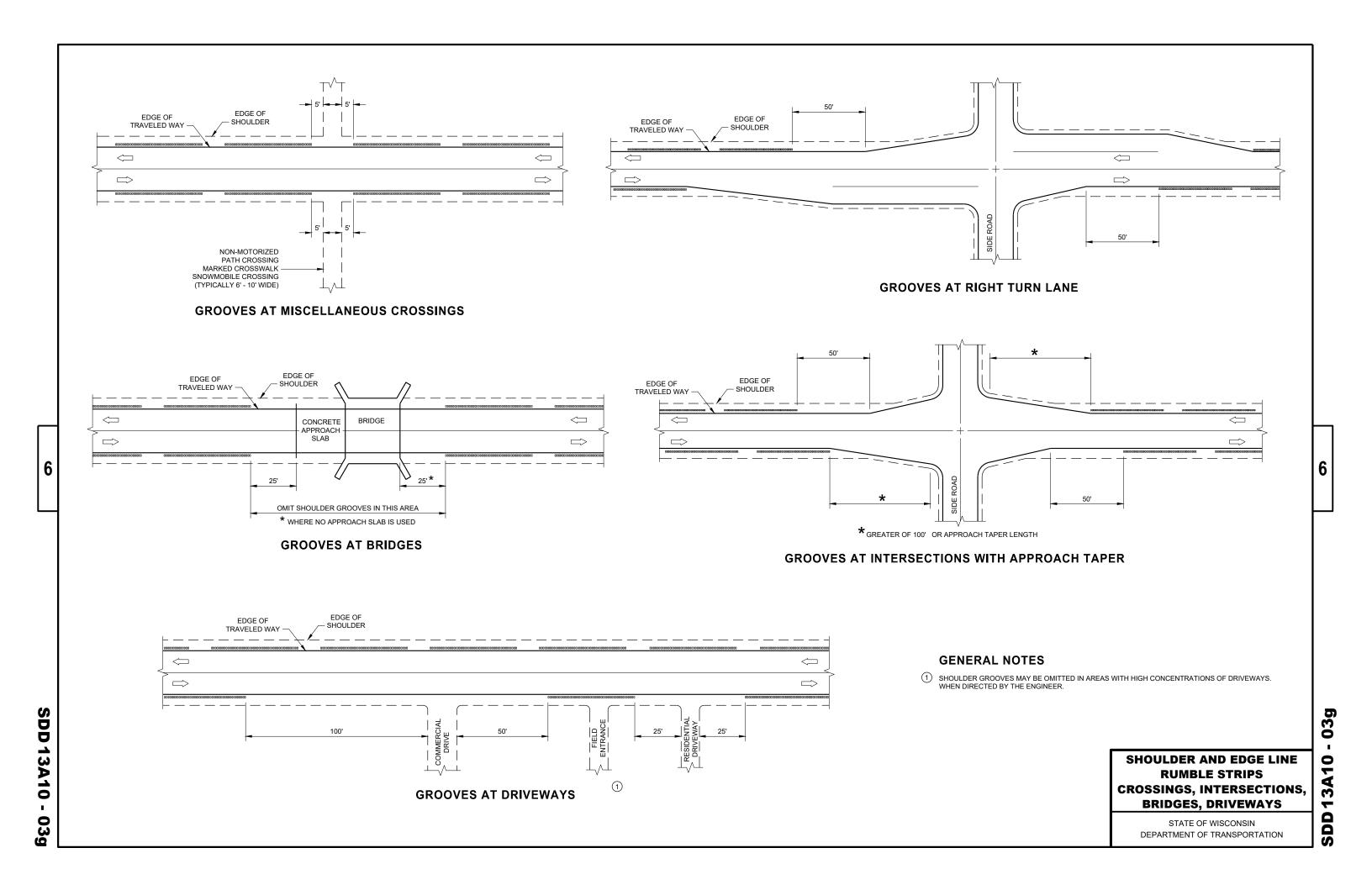
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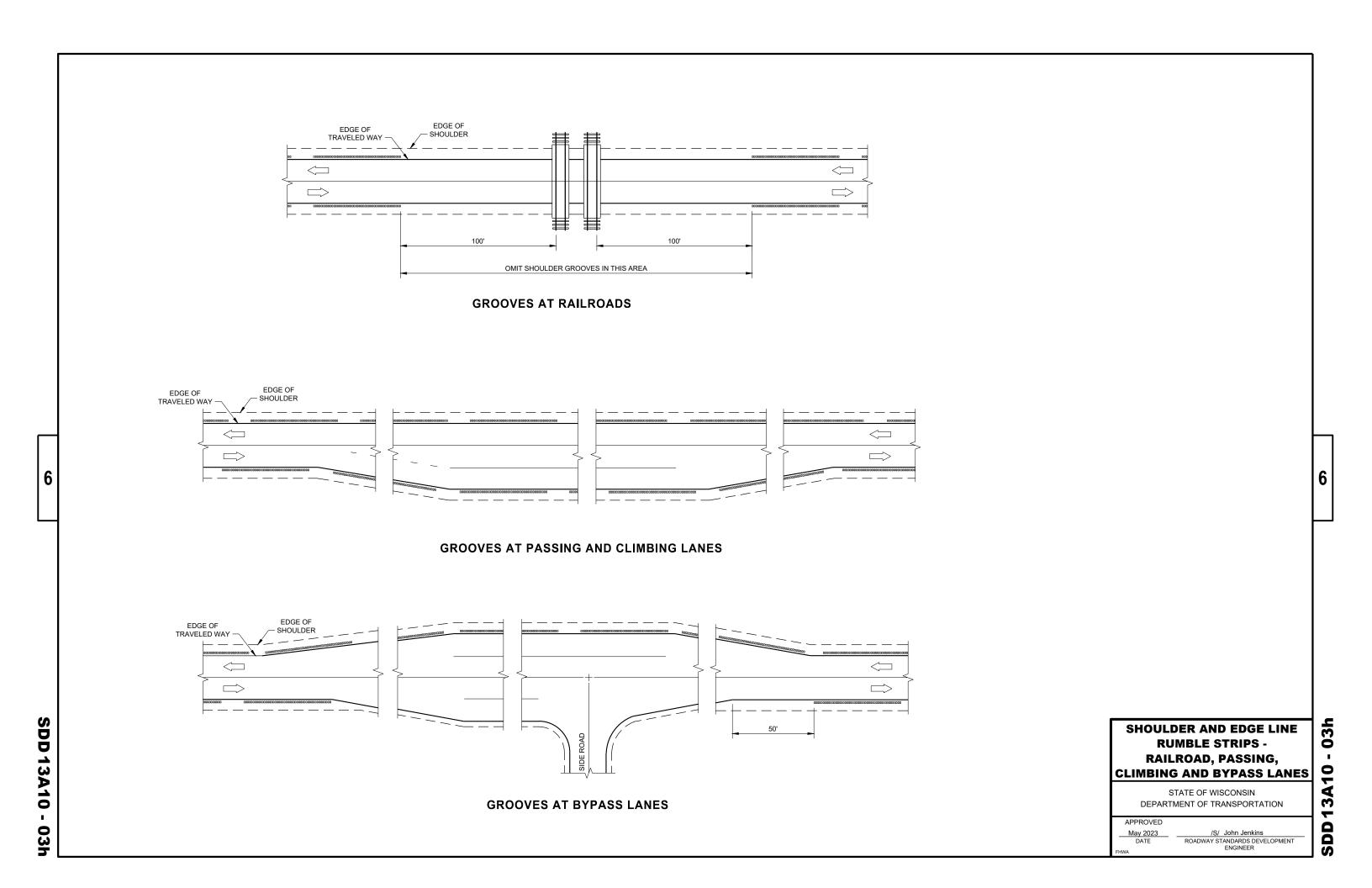
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

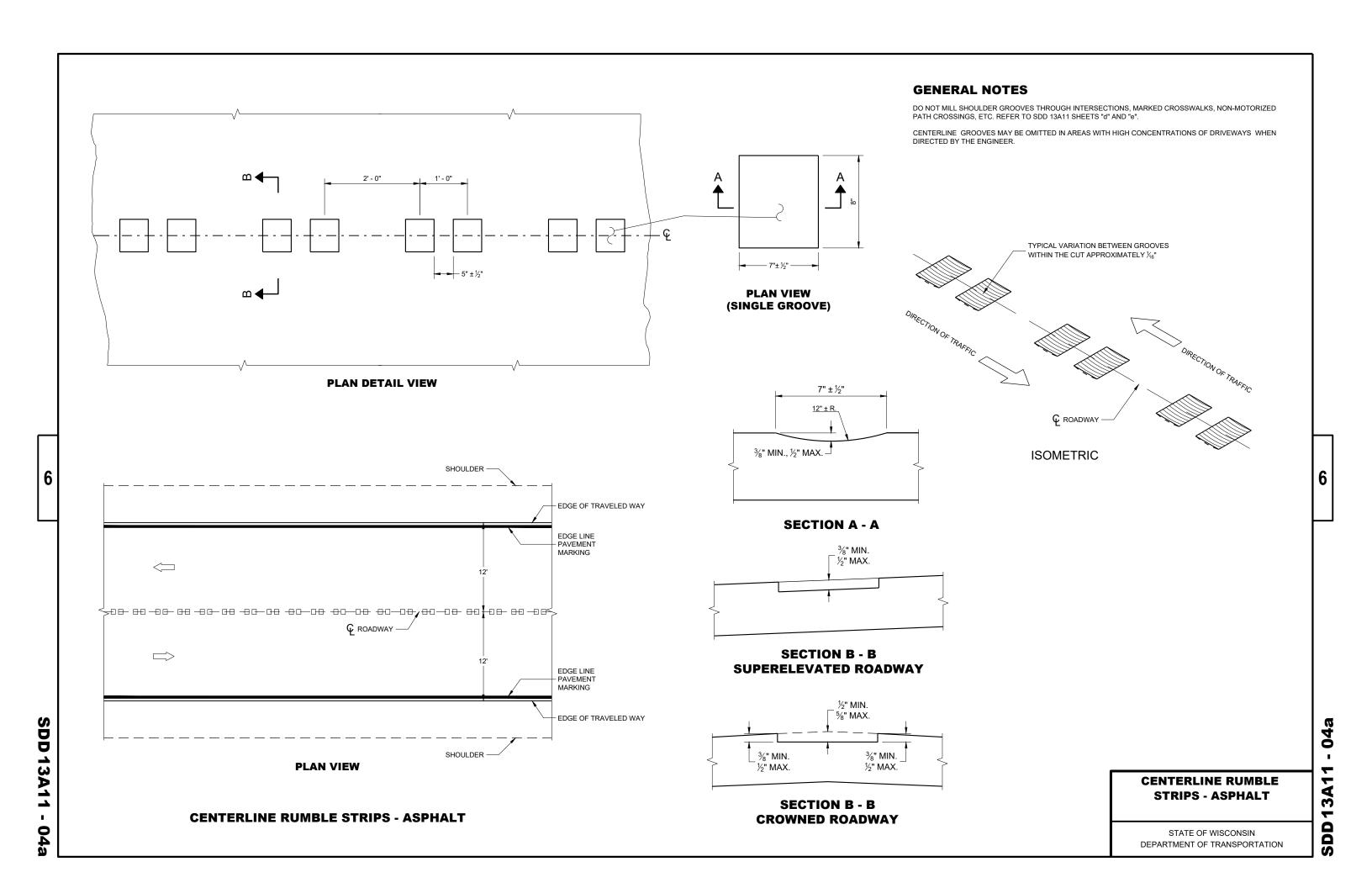
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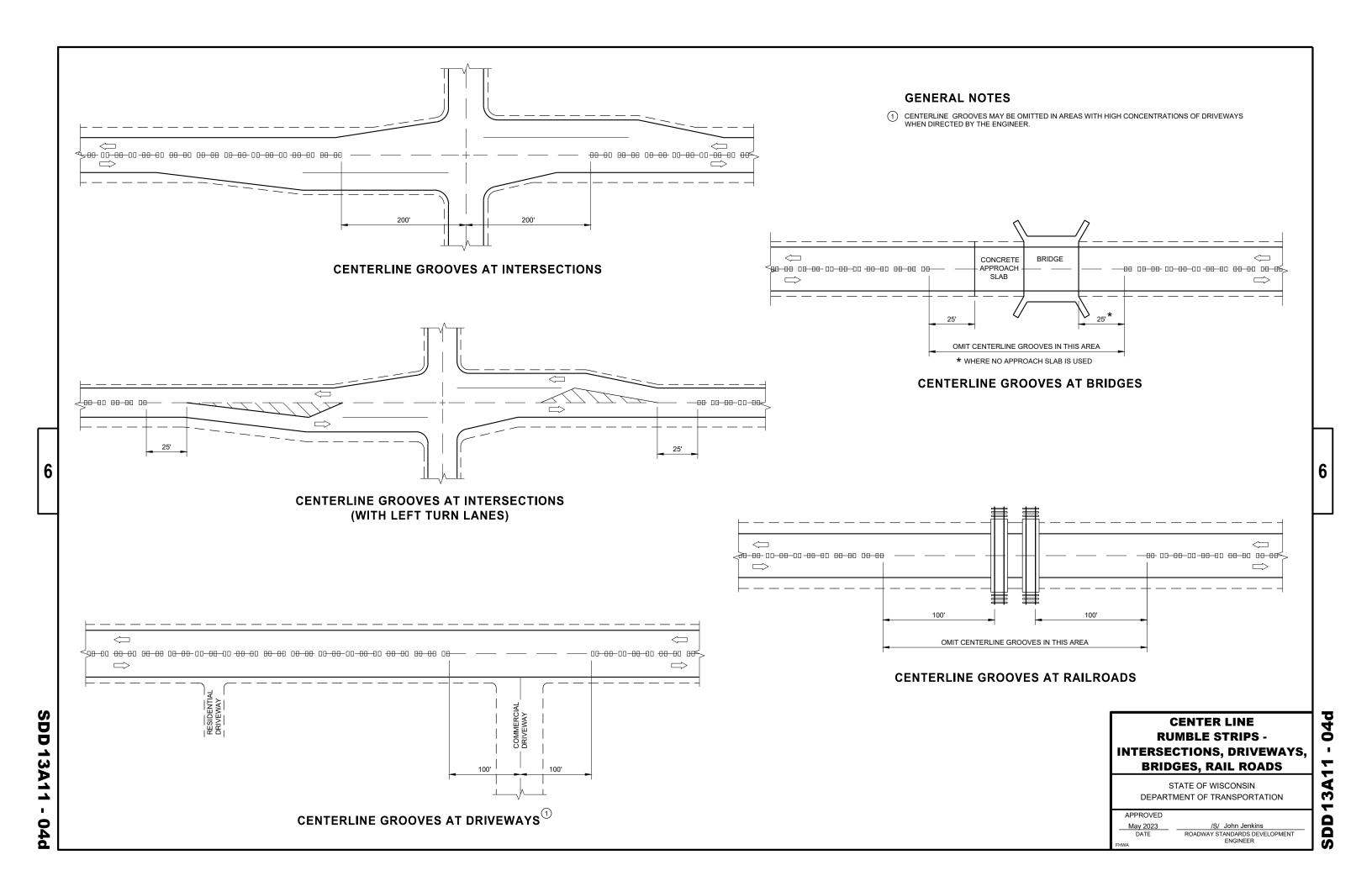
/S/ Beth Cannestra 10/16/02 CHIEF ROADWAY DEVELOPMENT ENGINEER

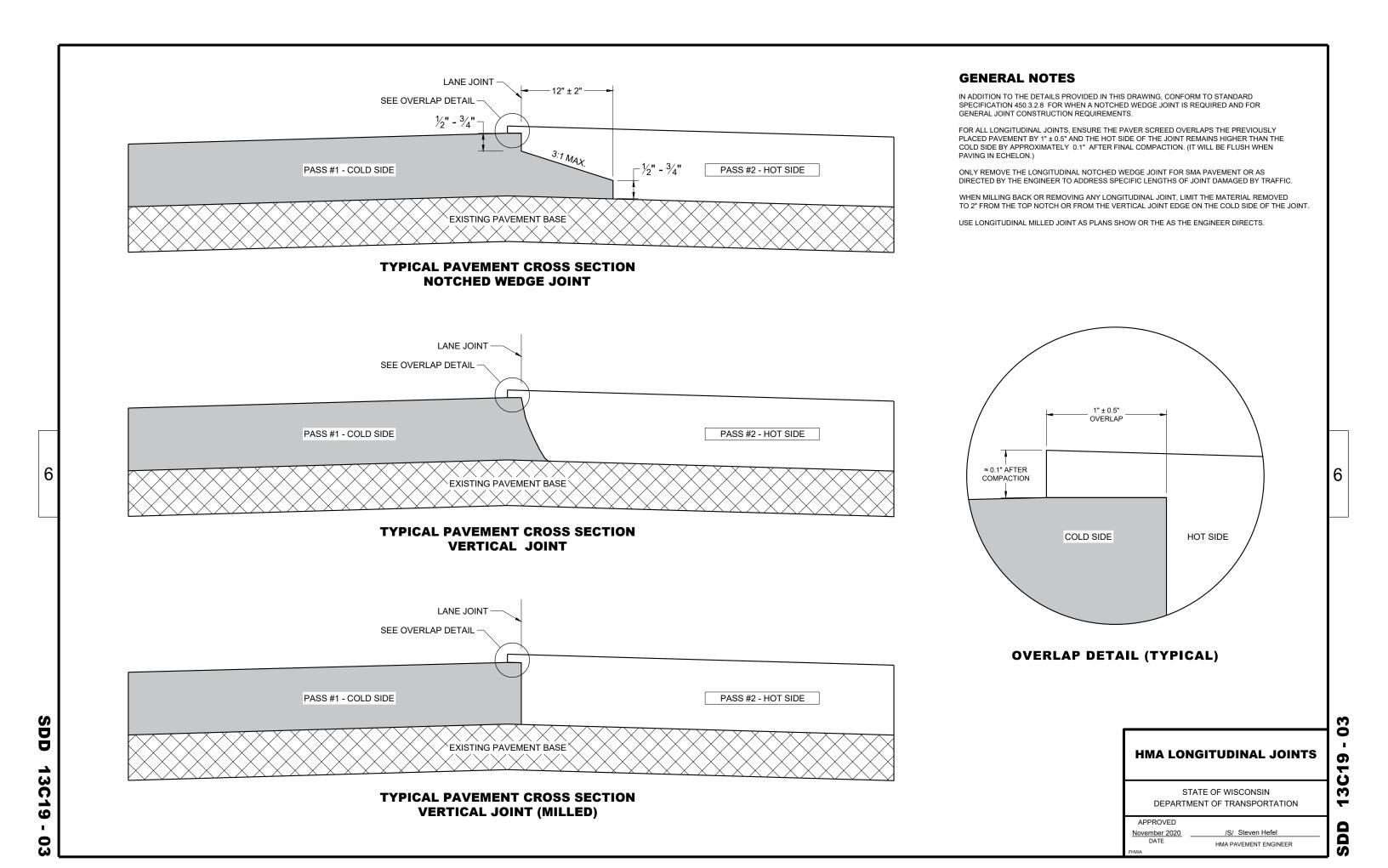


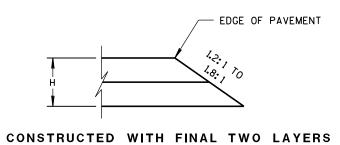


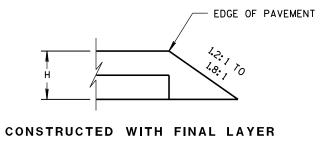






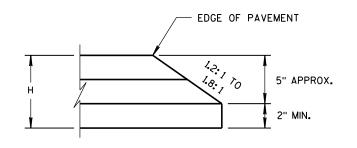


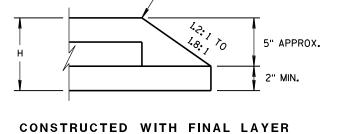




FOR H 5" OR LESS

FOR H 5" OR LESS





EDGE OF PAVEMENT

FOR H GREATER THAN 5"

FOR H GREATER THAN 5"

ASPHALT
SAFETY EDGE —

FINISHED SHOULDER AGGREGATE PLACEMENT

- EDGE OF PAVEMENT

HMA PAVEMENT AND HMA OVERLAYS

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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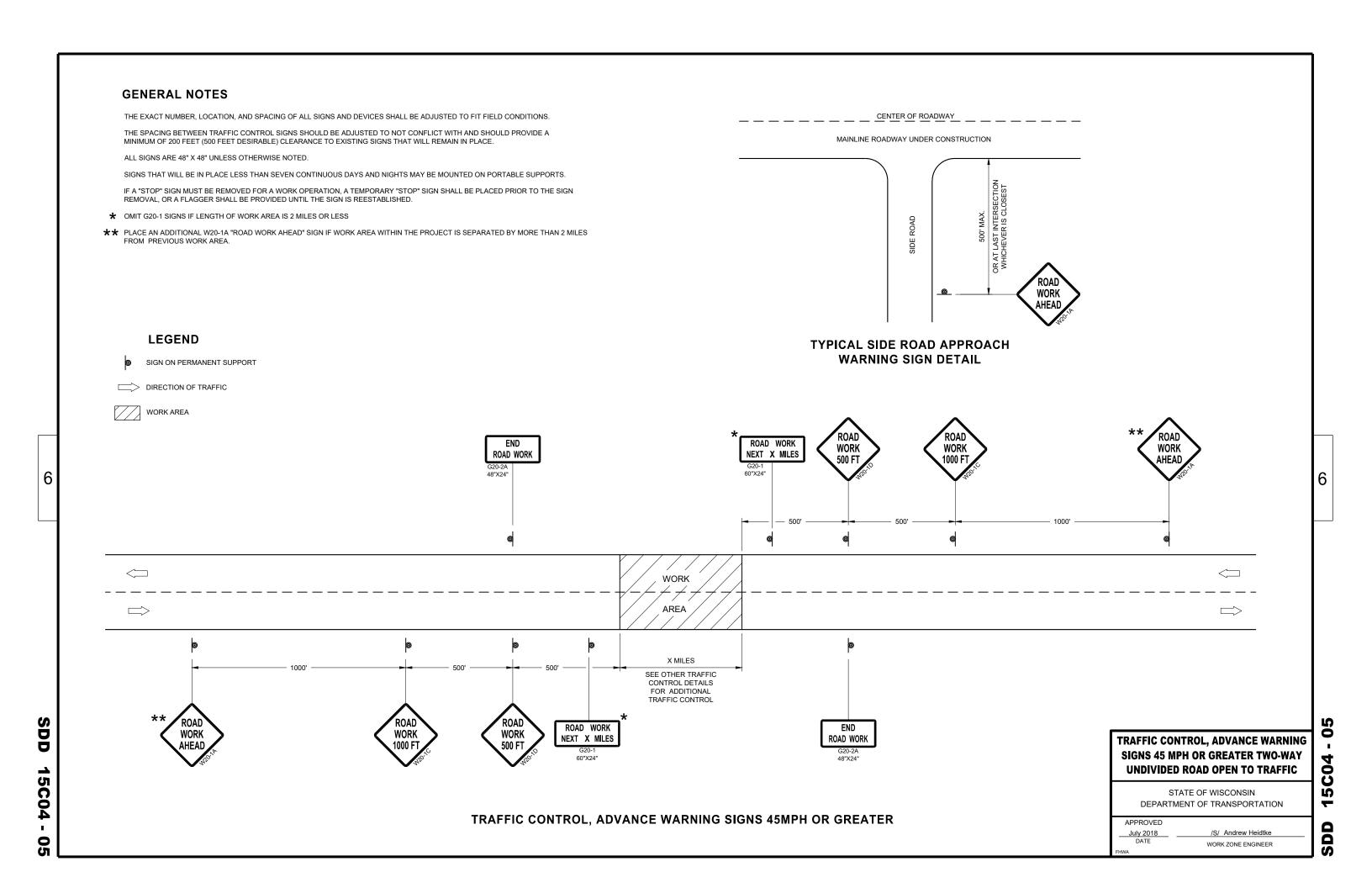
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APPROVED

BASE AGGREGATE DENSE

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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**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.

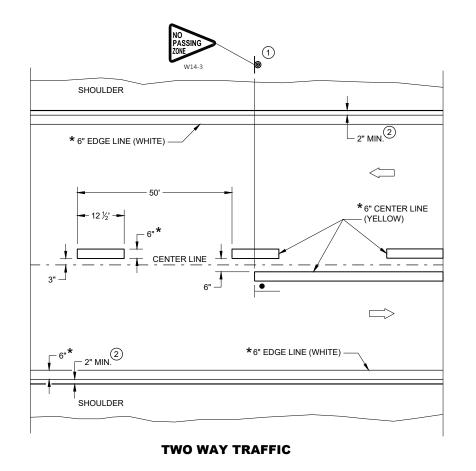
### **LEGEND**

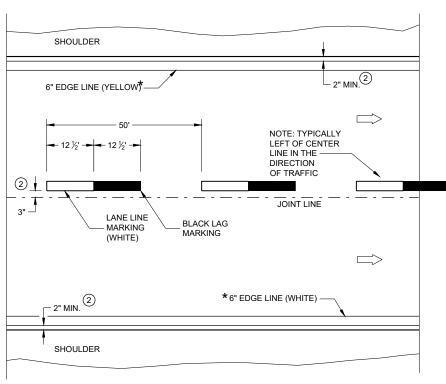
"T" MARKING

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**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023

DATE /S/ Jeannie Silver
STATEWIDE SIGNING AND MARKING
ENGINEER

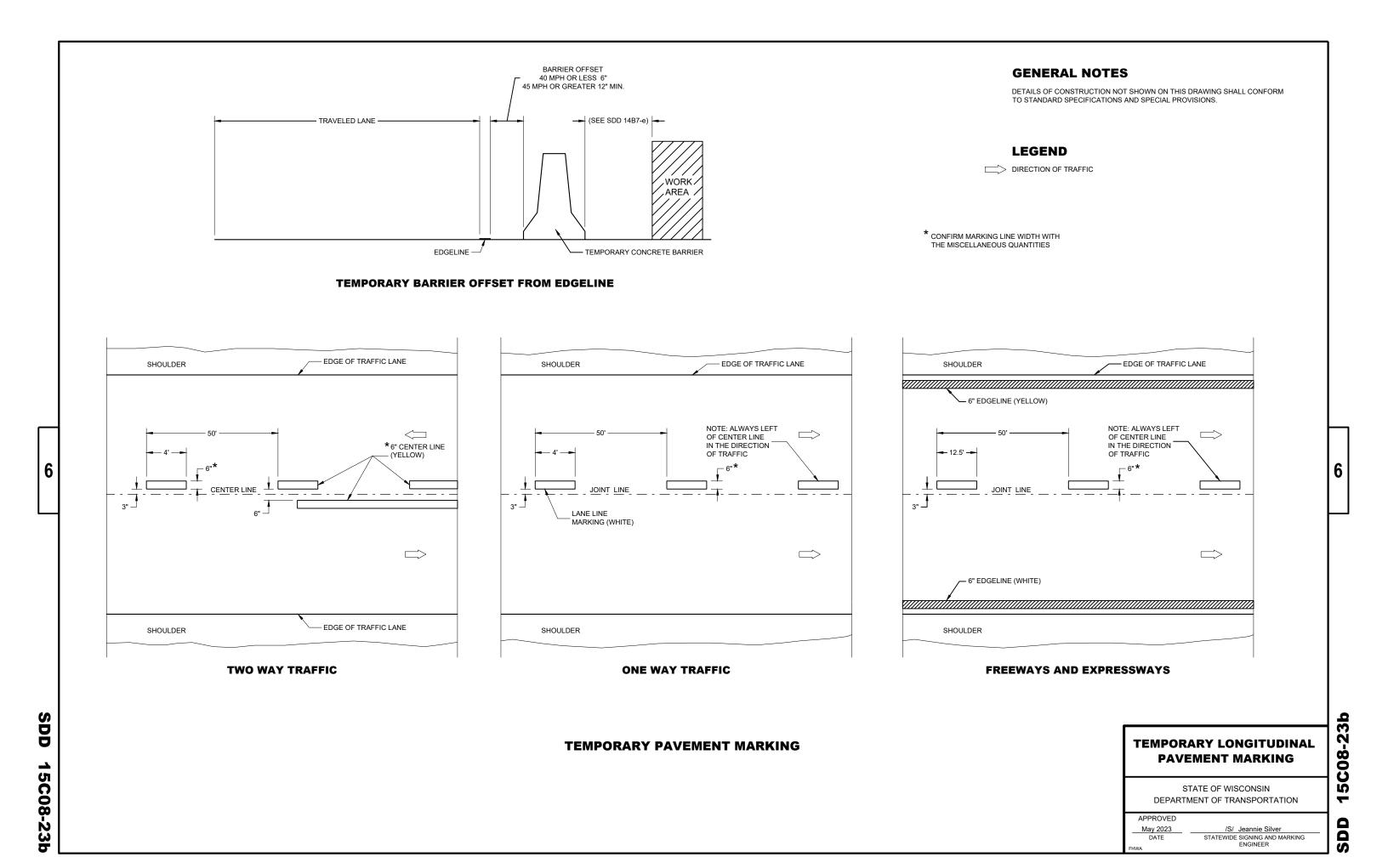
SDD 15C08-23a

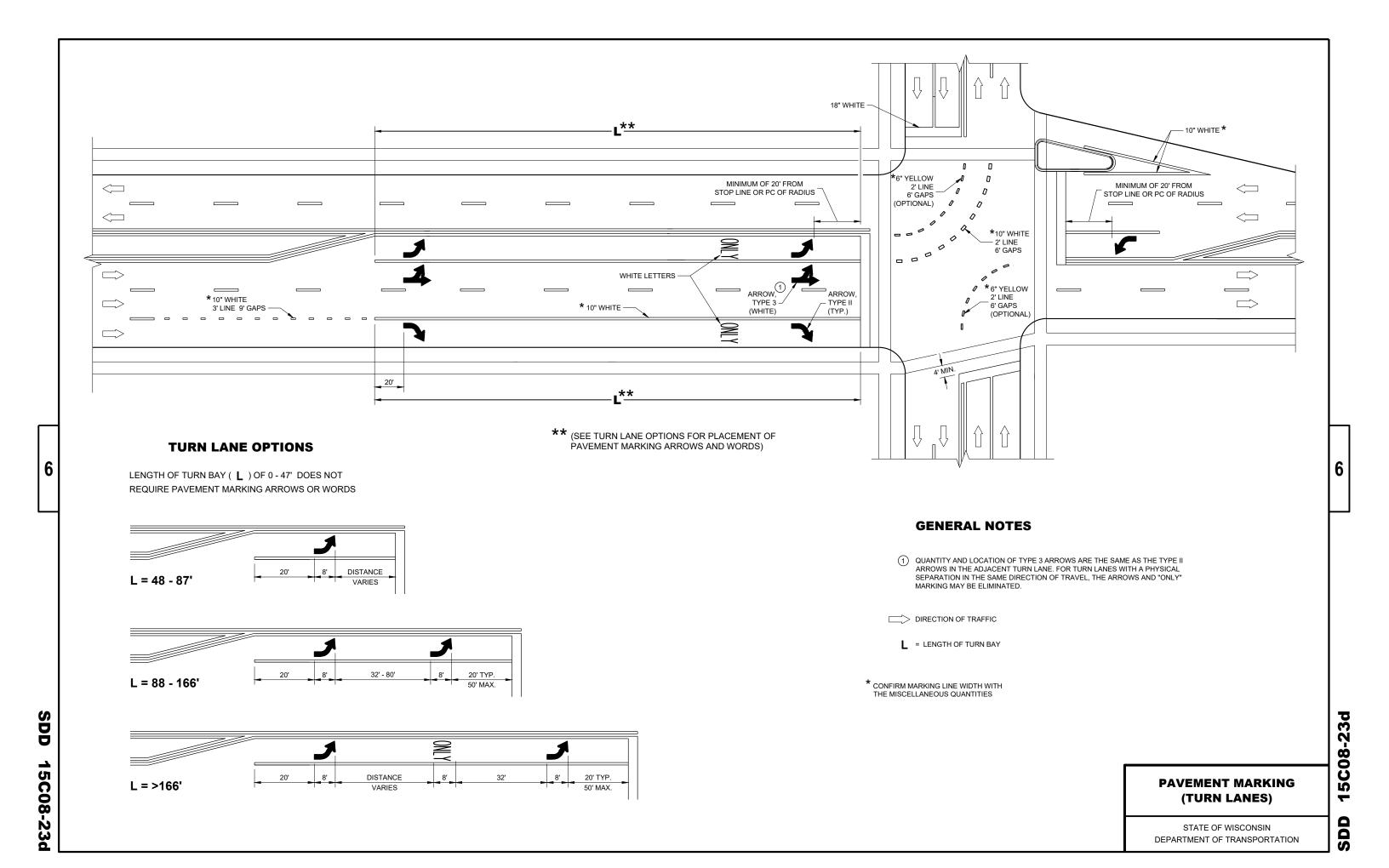
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C08-2

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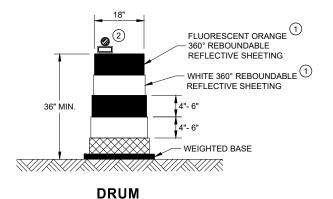




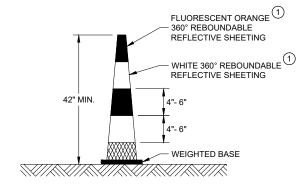
# **SDD 15C11**

# **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.

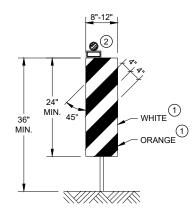


BALLAST WIDTHS RANGE FROM 24"-36"



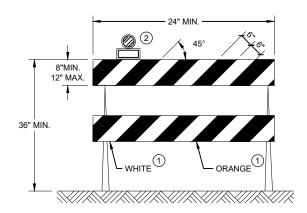
### **42" CONE**

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



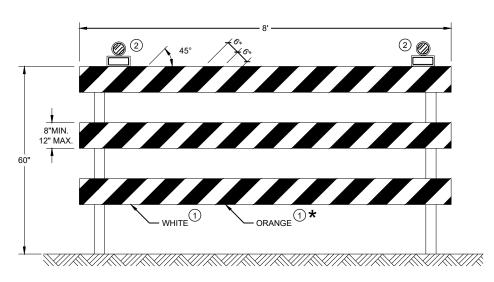
### **VERTICAL PANEL**

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**

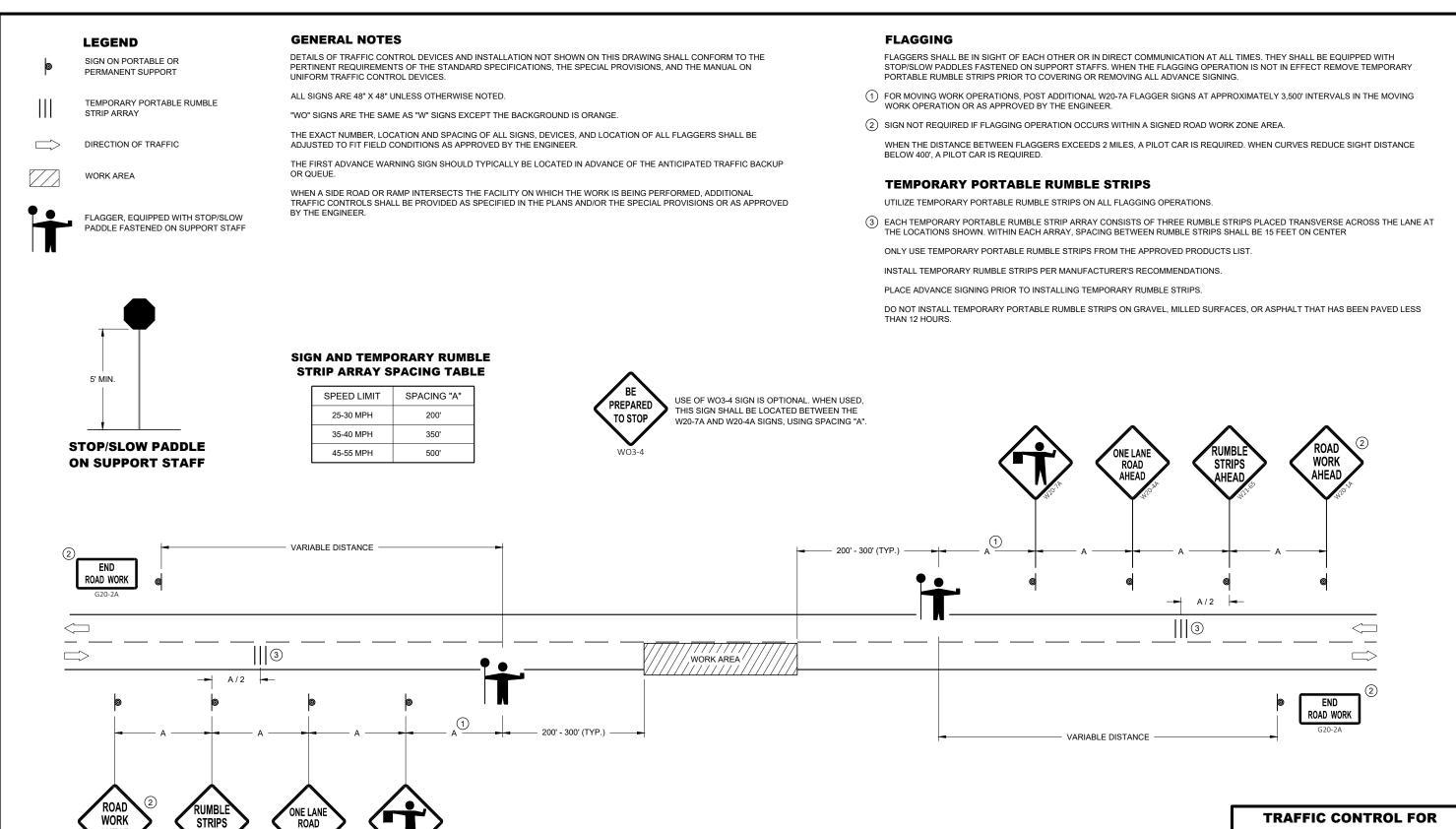
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

\* 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
FHWA	



# LANE CLOSURE WITH **FLAGGING OPERATION**

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

#### **GENERAL NOTES**

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

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

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

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

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

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

#### FLAGGING

IF THE AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) STOPS WORKING, FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

- 1) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- (2) IF FLAGGERS ARE PHYSICALLY NEEDED TO FLAG, REPLACE WO3-4 SIGNS WITH W20-7A SIGNS.

#### **TEMPORARY PORTABLE RUMBLE STRIPS**

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

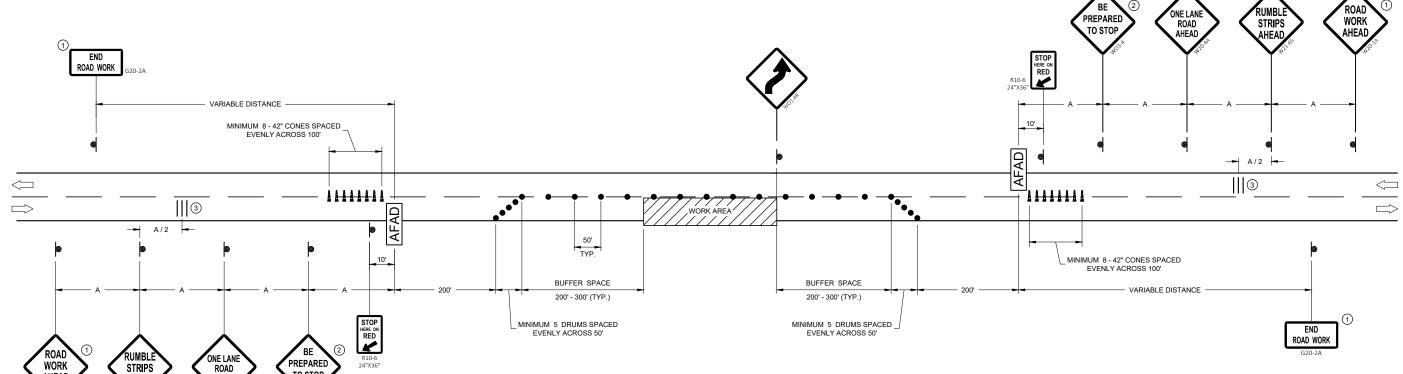
DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSELY AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER.



# SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



# TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

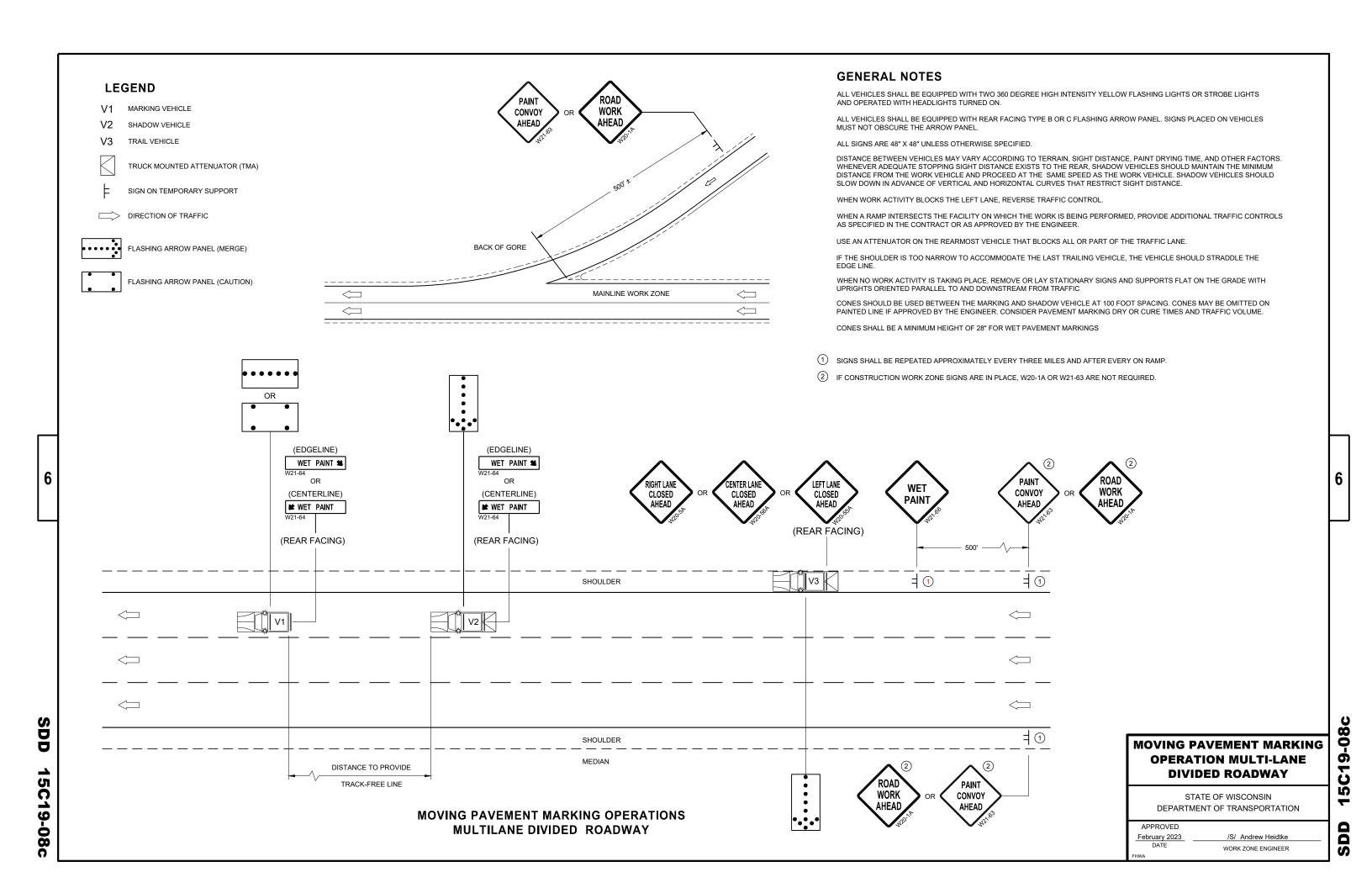
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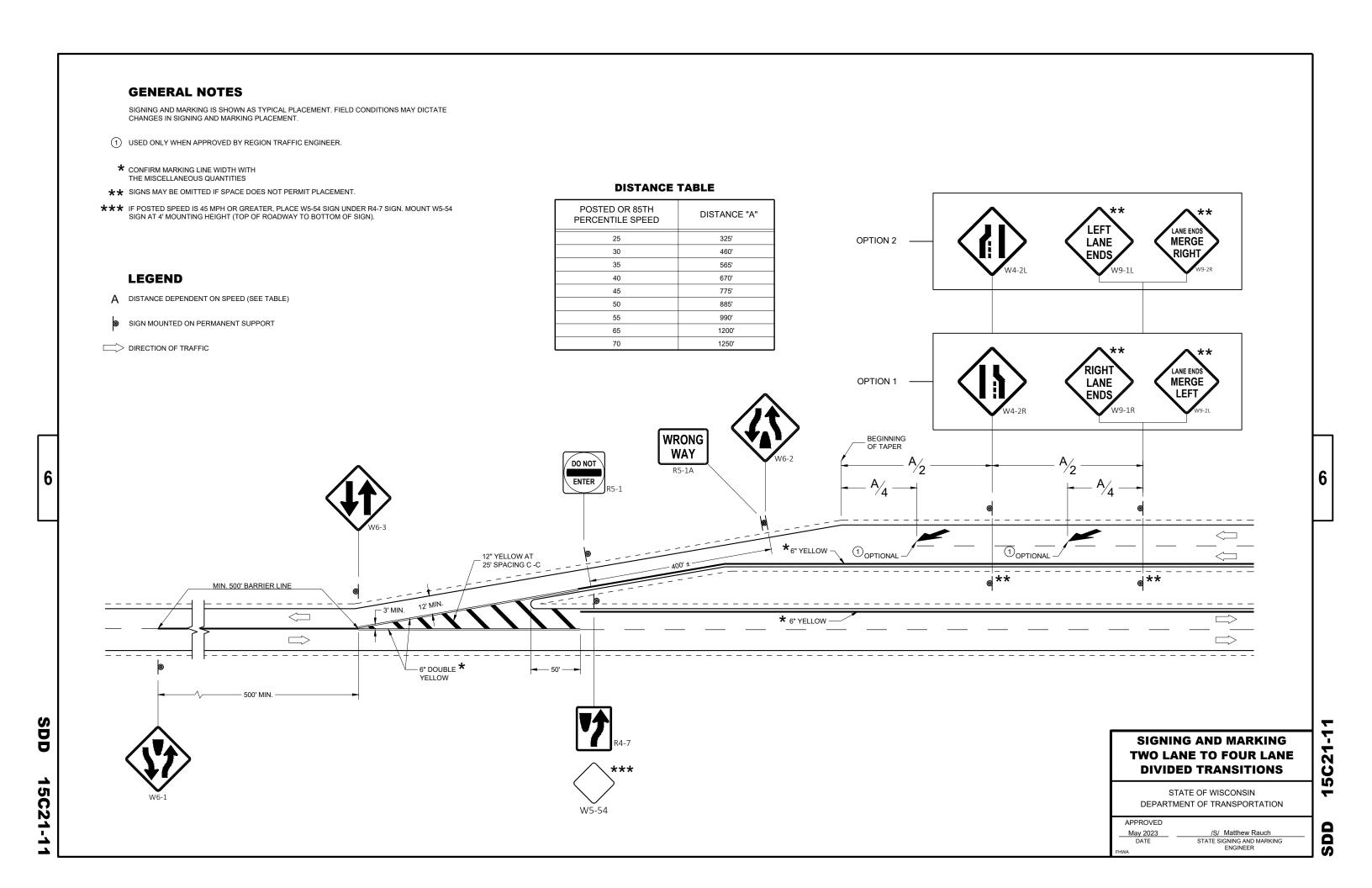
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### **GENERAL NOTES**

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO  $50\,\mathrm{FEET}$ .

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SLICH AS A CROSSOVER MANELIVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

### **LEGEND**

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TYPE III BARRICADE WITH ATTACHED SIGN

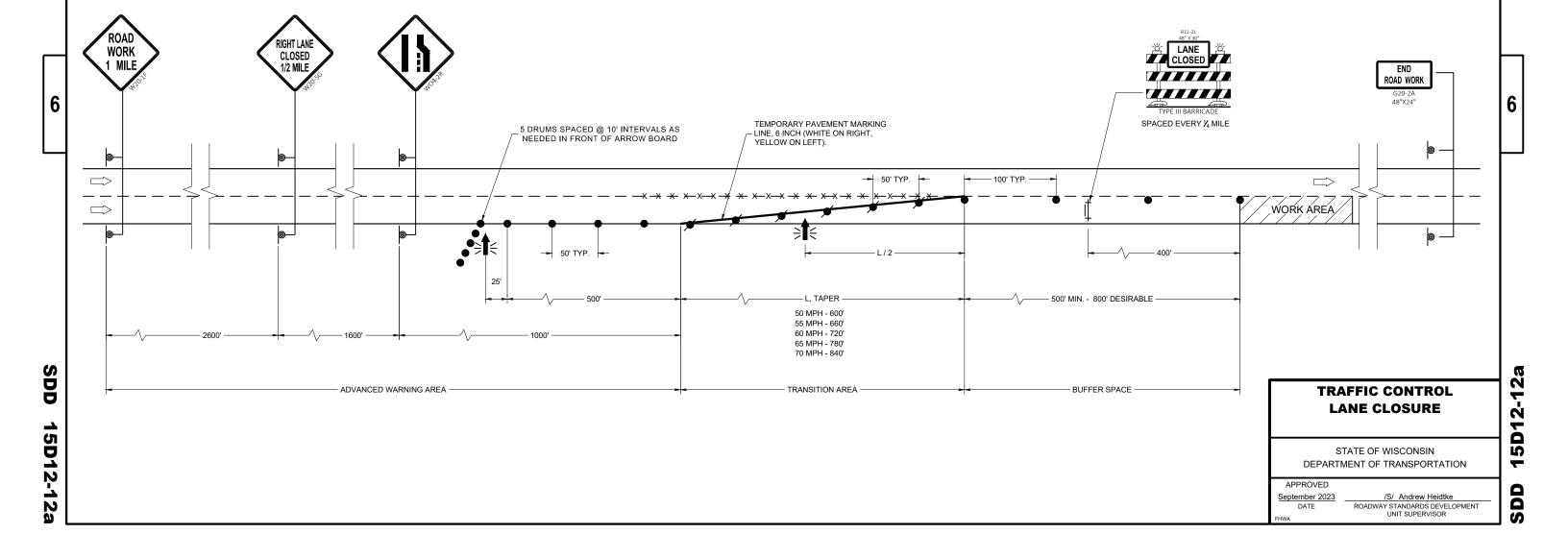
TYPE "A" WARNING LIGHT (FLASHING)

-X-X-X REMOVING PAVEMENT MARKINGS

DIRECTION OF TRAFFIC

/// WORK AREA

FLASHING ARROW BOARD



SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TYPE III BARRICADE WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

FLASHING ARROW BOARD

DIRECTION OF TRAFFIC

REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)

WORK AREA

**GENERAL NOTES** 

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" LINESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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

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

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS, DAYS AND NIGHTS

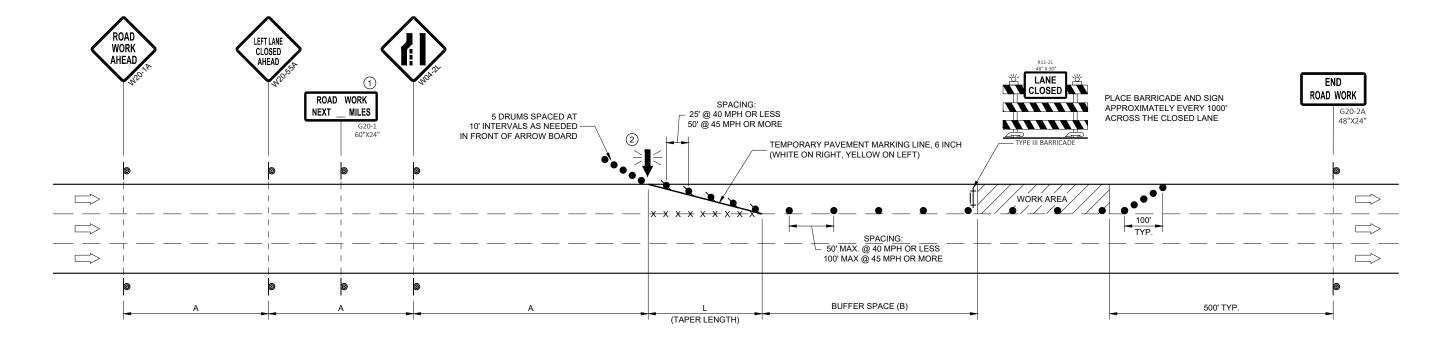
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

BARRICADES IN A CLOSED LANE 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 FACH WORKING DAY

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

- (1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT ADVANCE TAPER LENGTH | BUFFER PRIOR TO WORK WARNING SIGN (12 FT. LANE) SPACE STARTING (MPH) SPACING (A) FEET (L) FEET (B) FEET 25 200' 125' 55' 30 200' 180' 85' 35 350' 245' 120' 40 170' 350 320' 45 500' 540' 220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED **NON-FREEWAY/EXPRESSWAY** 

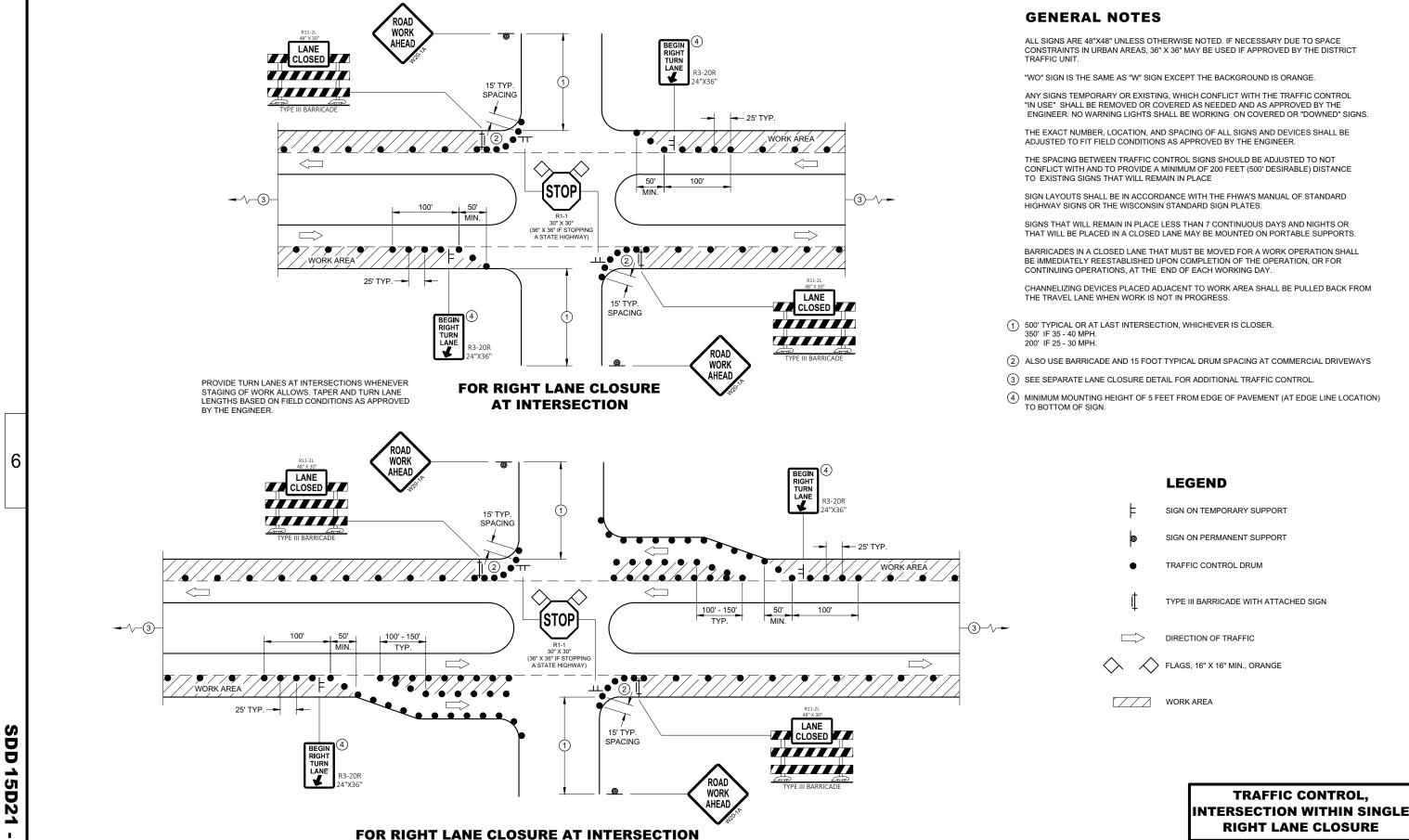
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

SDD 15D20-0



(WITH RIGHT TURN BAY OPEN)

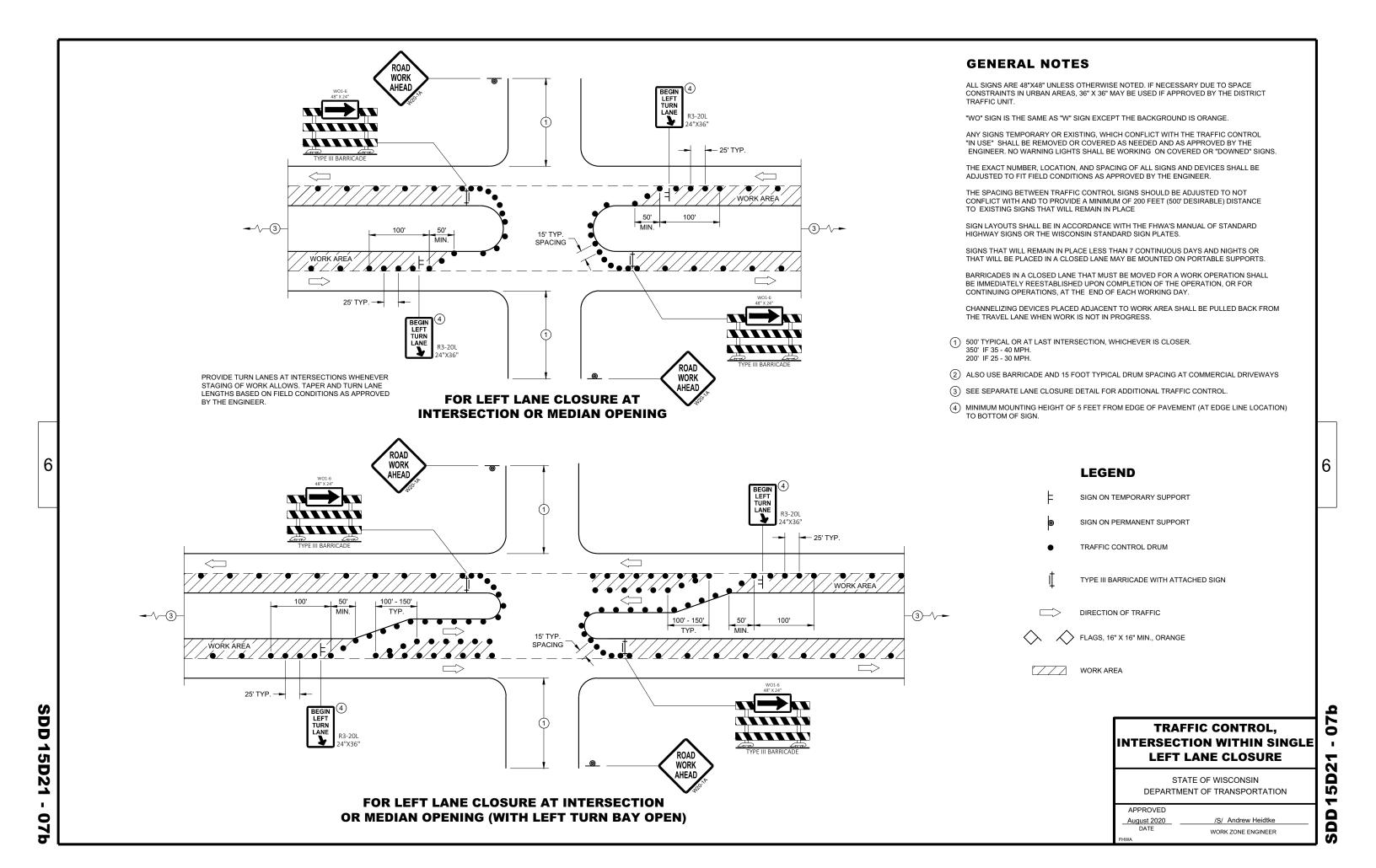
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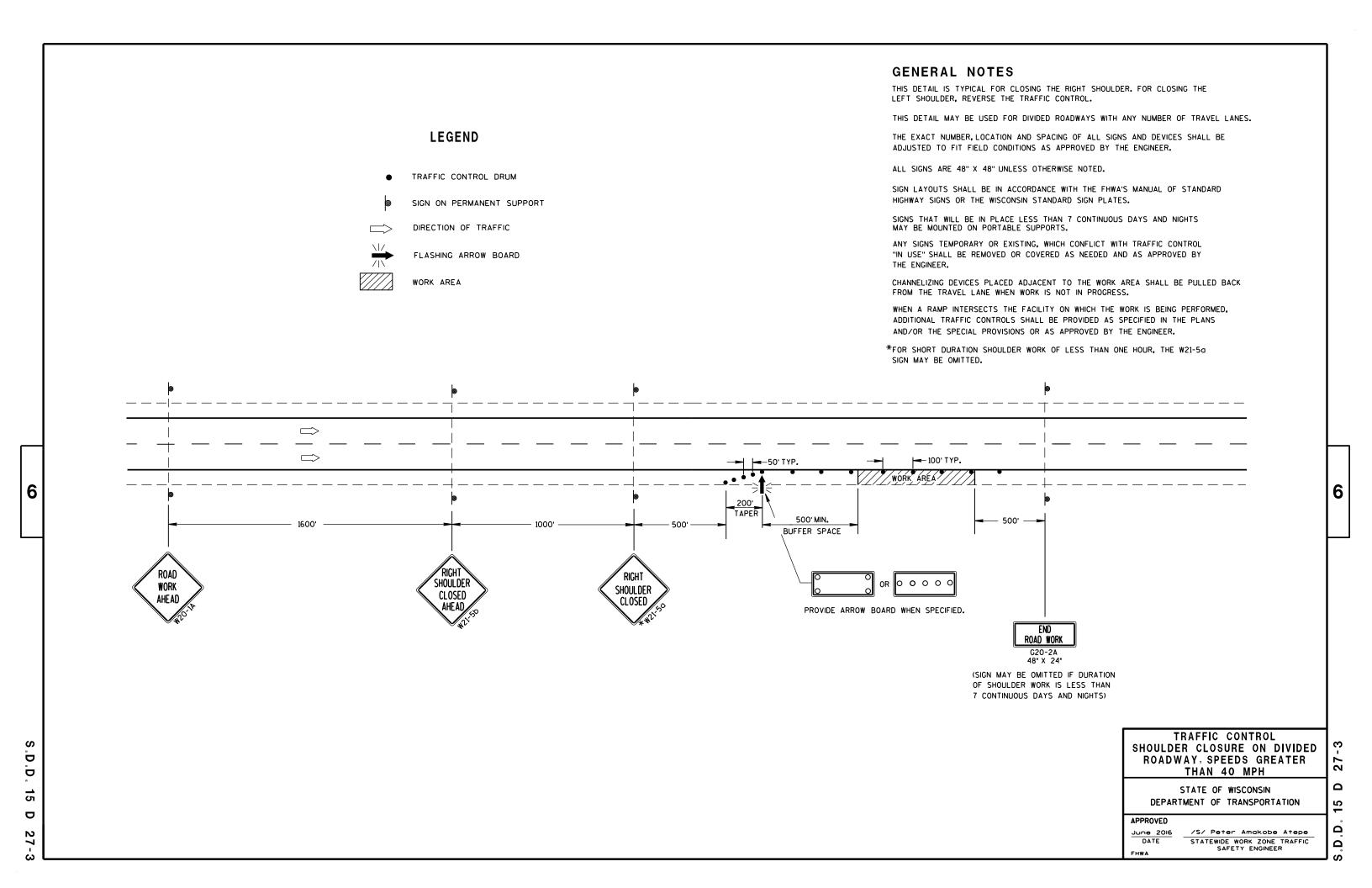
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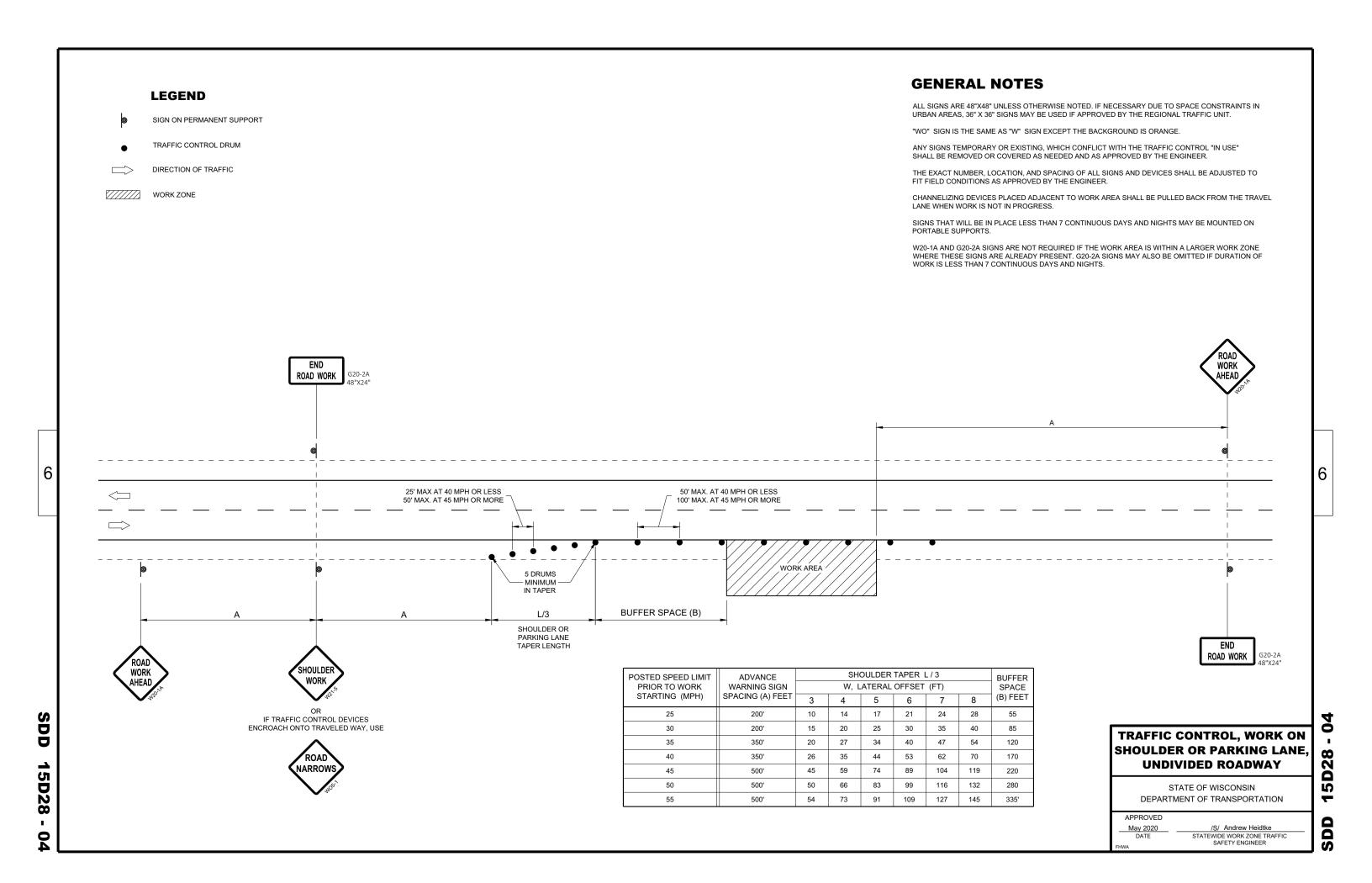
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION







QROOVED PAVEMENT

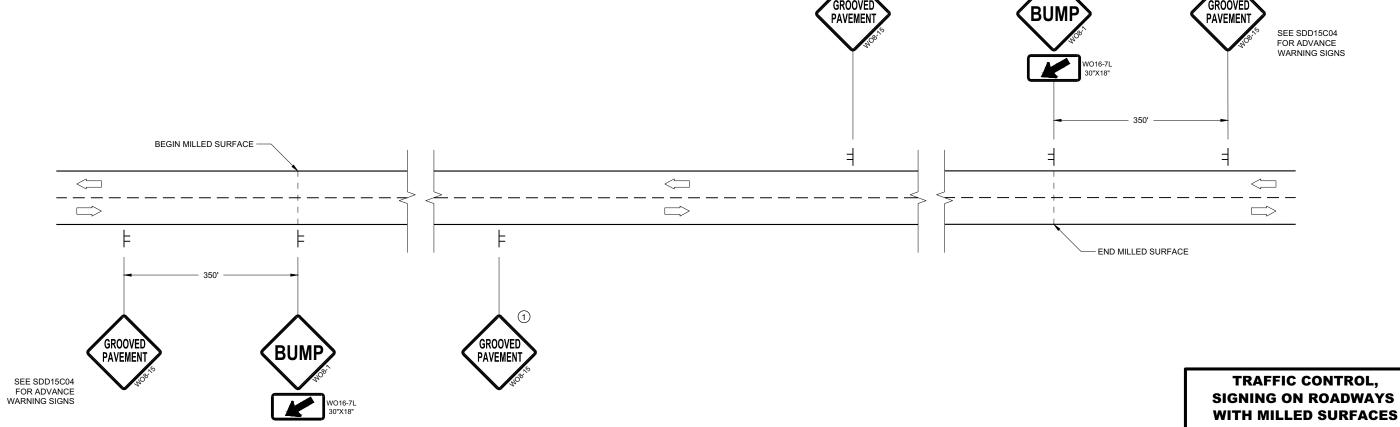
### TYPICAL SIDE ROAD APPROACH SIGN DETAIL

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke
WORK ZONE ENGINEER

APPROVED
February 2020
DATE



**DETAIL FOR SIGNING ON MILLED SURFACES** 

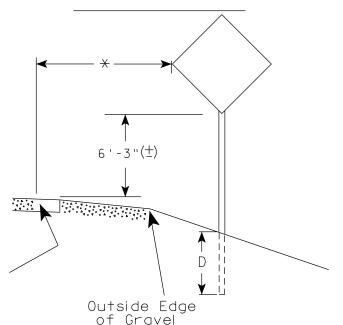
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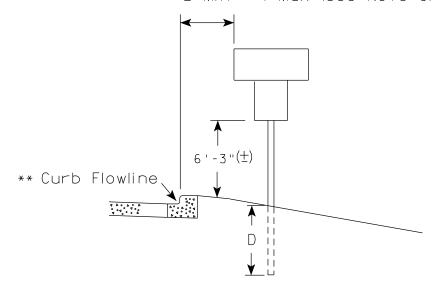
2' Min - 4' Max (See Note 6)

The state of t

White Edgeline Location



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



White Edgeline Location

geline

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

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.

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.

2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

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

- 3. For expressways and freeways, mounting height is 7'- 3"  $(\pm)$  or 6'-3"  $(\pm)$  depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ( $\frac{+}{2}$ ).
- 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.

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

Matthew R Rawh

For State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

SHEET NO:

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PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr\_stdplate\A43.dgn

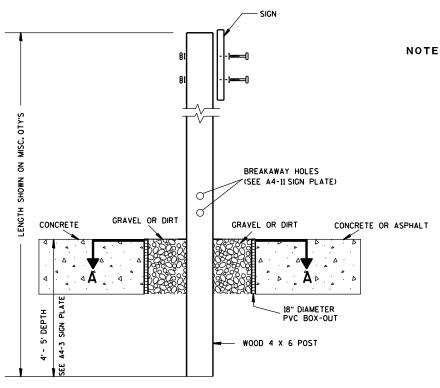
measured from the flow line.

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY : mscj9h

PLOT NAME :

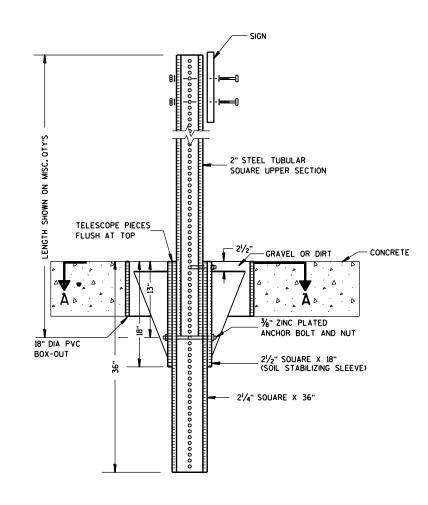
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



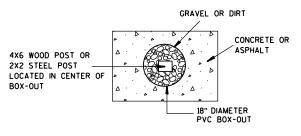
# ELEVATION VIEW

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

ELEVATION VIEW

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

- 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.
- $\star\star\star$  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'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

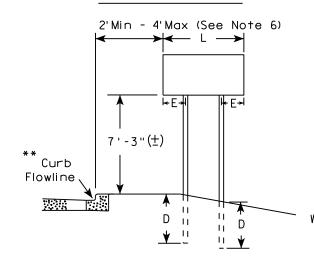
For State Traffic Engineer

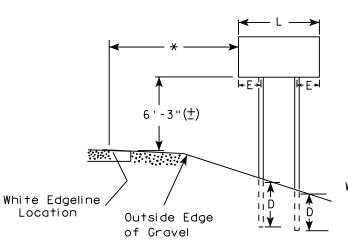
DATE 8/21/17 PLATE NO. 44-4.15

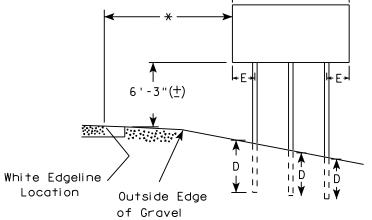
SHEET NO:

## URBAN AREA

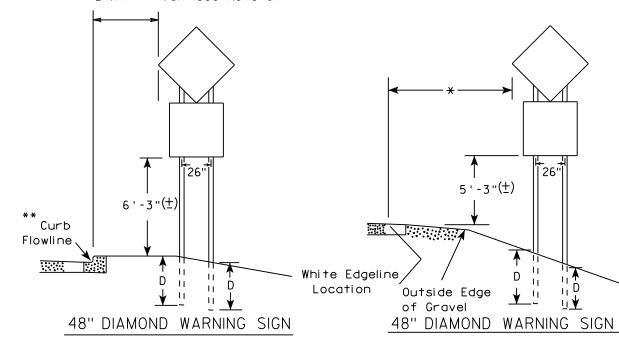
### RURAL AREA (See Note 3)







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



	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRED	
	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

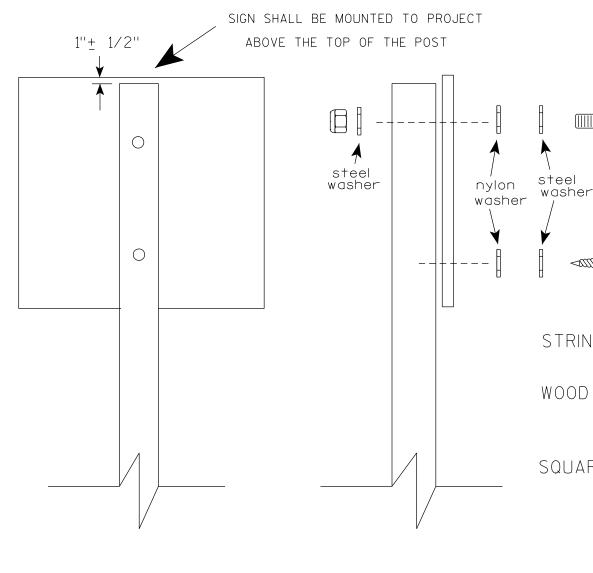
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

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

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



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

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

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

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

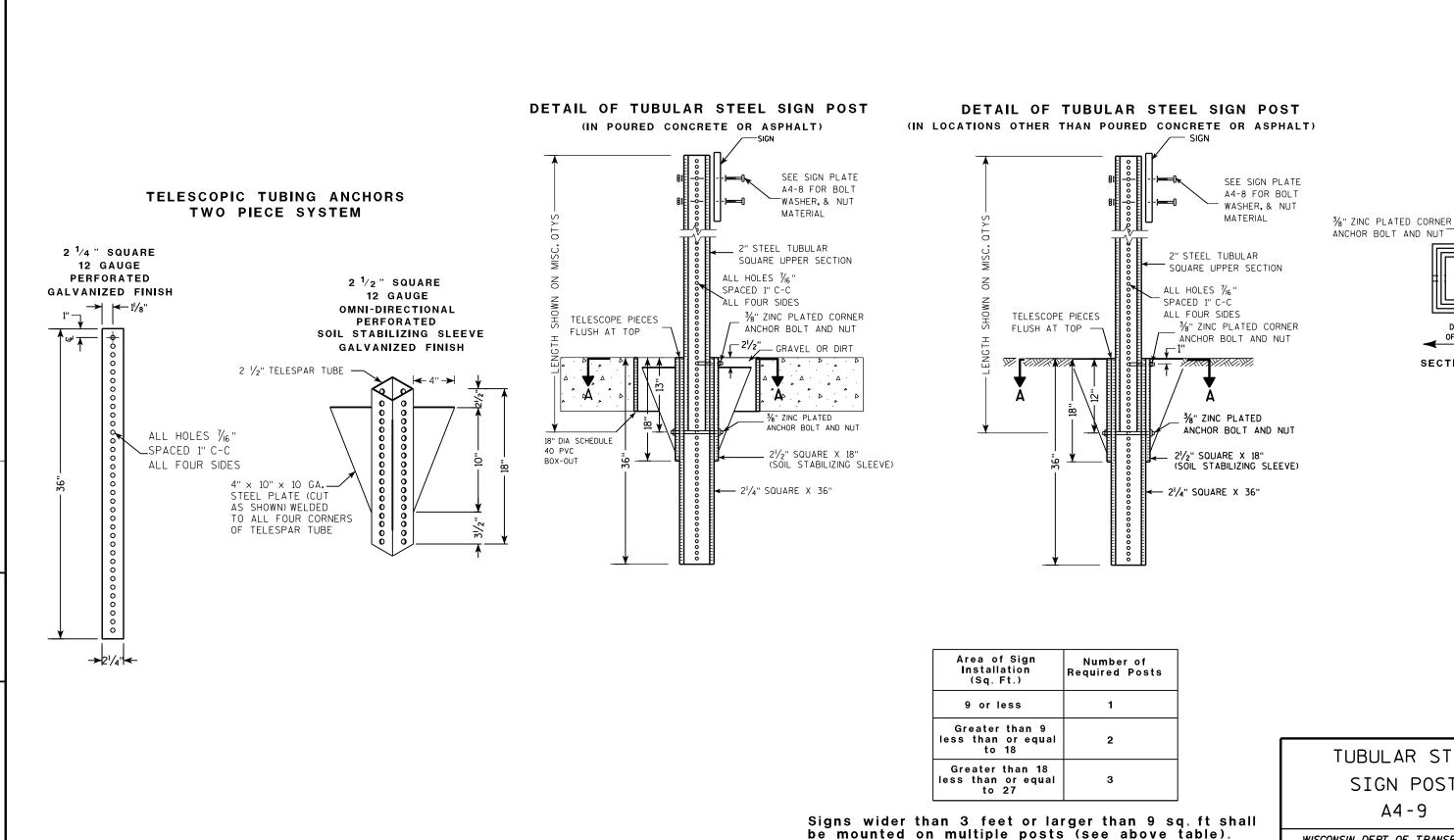
PLATE NO. <u>A4-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

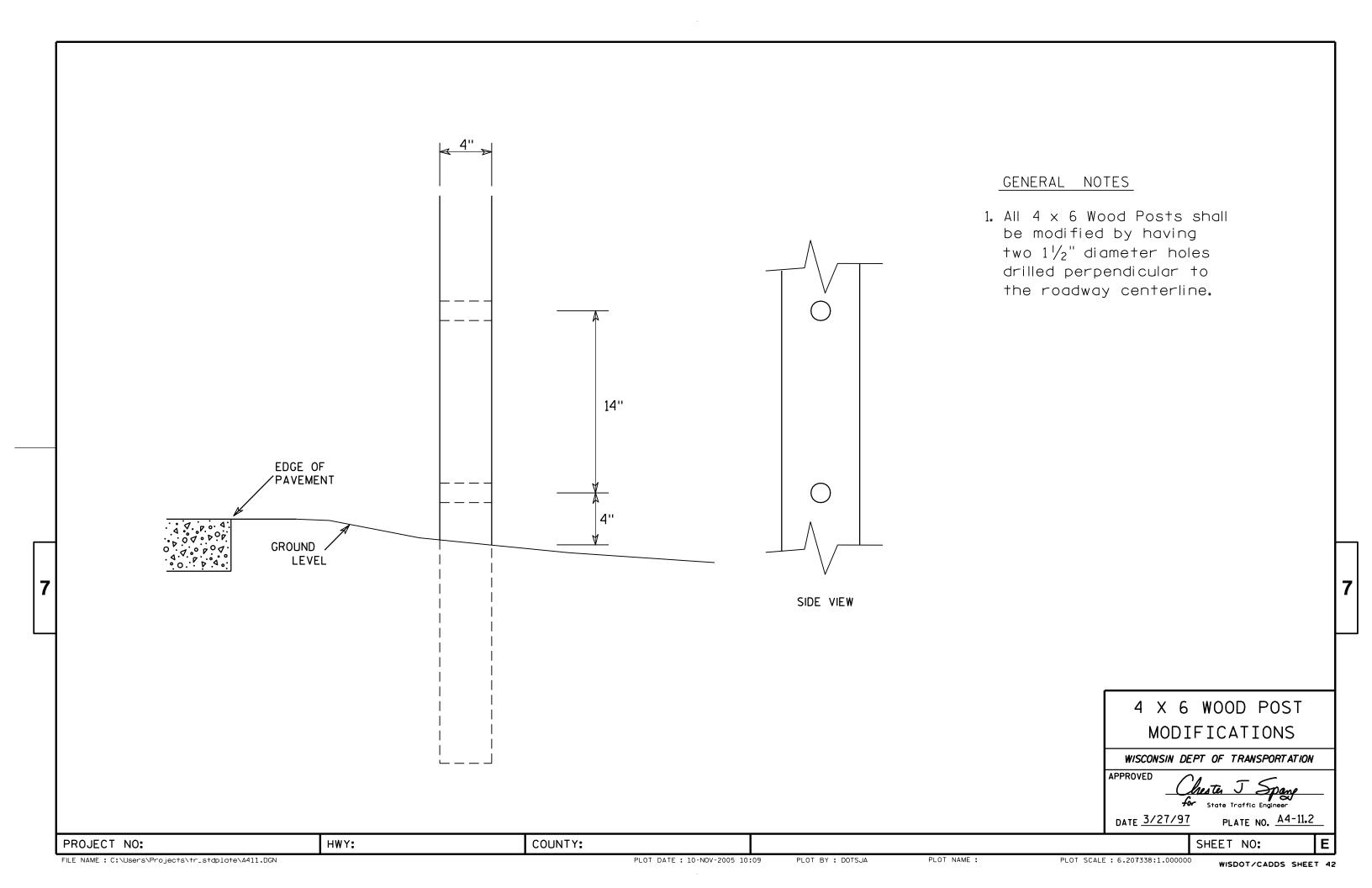
COUNTY:

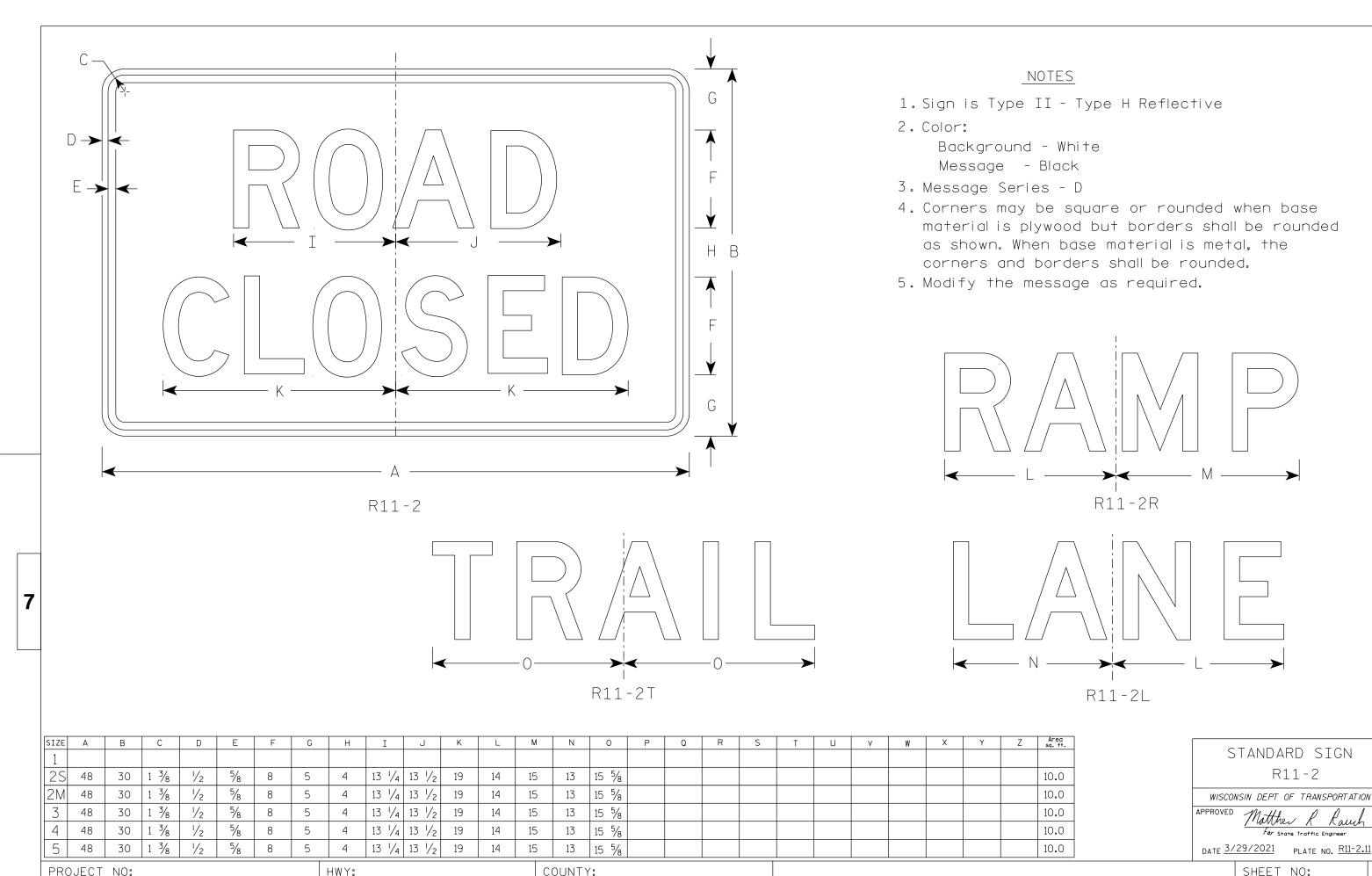
PLOT NAME :

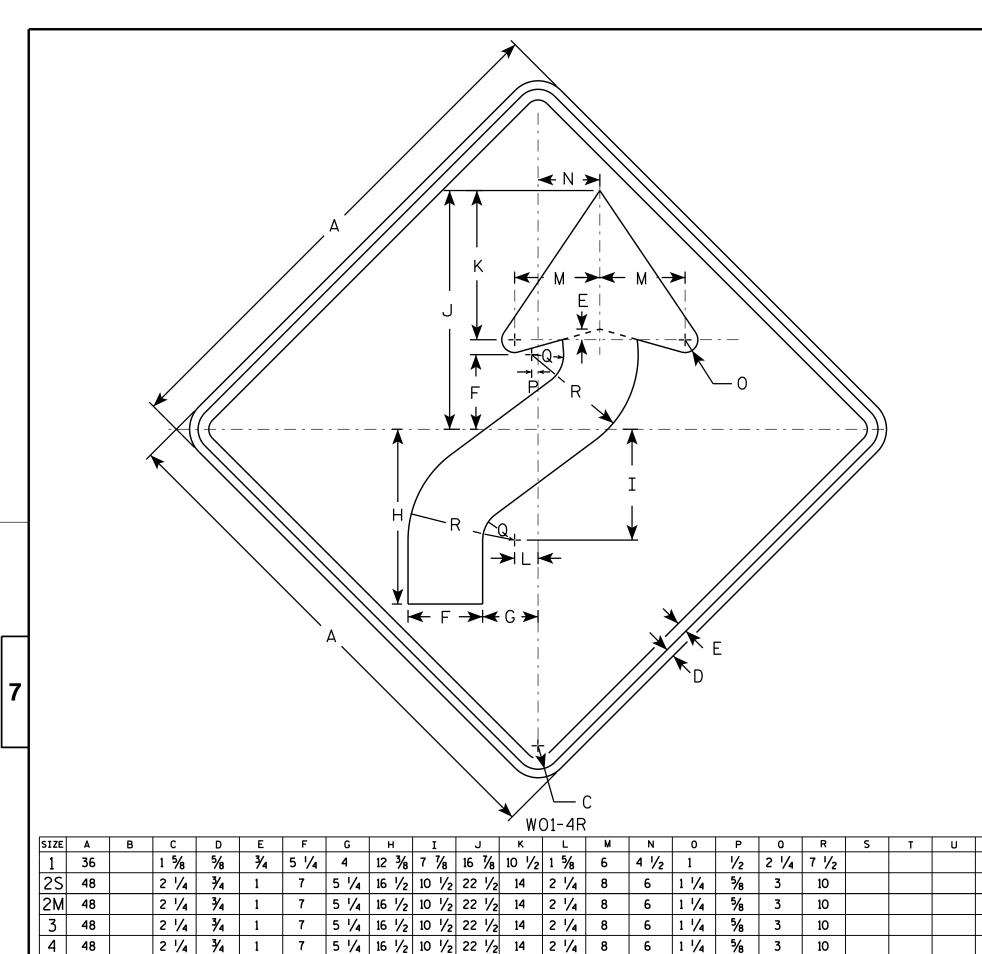
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

SECTION A-A







5 1/4 16 1/2 10 1/2 22 1/2 14

HWY:

2 1/4

# NOTES

- 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. 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. WO1-4L is the same as WO1-4R except the arrow is reversed along the vertical centerline.

Area sq. ft.

9.0

16.0

16.0

16.0

16.0

16.0

STANDARD SIGN WO1-4 WISCONSIN DEPT OF TRANSPORTATION **APPROVED** for State Traffic Engineer

DATE <u>11/18/1</u>3

PLATE NO. WO1-4.1 SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W014.DGN

2 1/4 | 3/4

48

48

PROJECT NO:

PLOT DATE: 28-FEB-2014 11:35

1 1/4

COUNTY:

10

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 6.755110:1.000000

# NOTES

- 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. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

c —	
	B
K	
M ————————————————————————————————————	
NH	
A	
WO1-6	

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	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5

COUNTY:

STANDARD SIGN WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

SHEET NO:

DATE 11/18/13 PL

13 PLATE NO. <u>WO1-6.1</u>

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W016.DGN

HWY:

PROJECT NO:

PLOT DATE: 28-FEB-2014 11:37

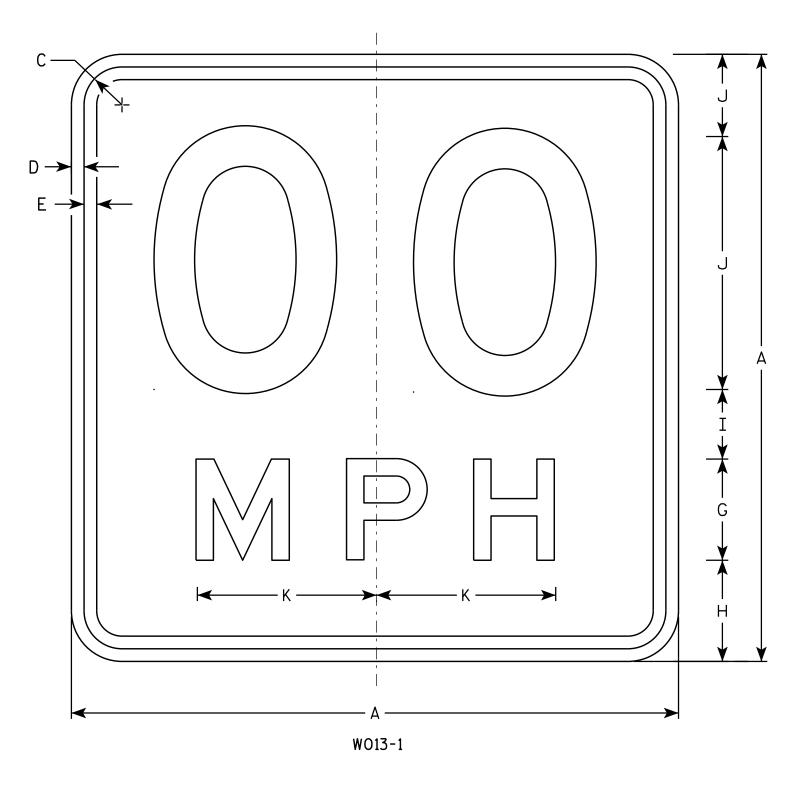
PLOT N

PLOT BY: mscj9h

PLOT SCALE : 5.837526:1.000000

WISDOT/CADDS SHEET 42

PLOT NAME :



# NOTES

- 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 6
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
- 6. Line 1 is Series D Line 2 is Series E

SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Areo sq. ft.
1	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
25	36		1 1/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
2M	36		1 1/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
3	36		1 1/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
4	36		1 1/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
5	36		1 1/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

COUNTY:

STANDARD SIGN W013-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rawl

DATE 11/21/13 F

PLATE NO. WO13-1.1

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W0131.DGN

HWY:

PROJECT NO:

PLOT DATE: 02-DEC-2013 13:55

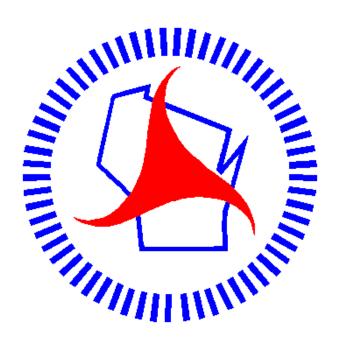
PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 3.794391:1.000000

WISDOT/CADDS SHEET 42

Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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