

# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

## PLAN OF PROPOSED IMPROVEMENT

# NW REGION, PAVEMENT MARKING 2024

### VARIOUS HIGHWAYS, NW REGIONWIDE

## VAR HWY

## NW REGION WIDE

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
PROJECT ID	WISC 2024053	1

STATE PROJECT NUMBER
1000-18-61

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
<del>Section No. 4</del>	<del>Right of Way Plat</del>
<del>Section No. 5</del>	<del>Plan and Profile</del>
Section No. 6	Standard Detail Drawings
<del>Section No. 7</del>	<del>Sign Plates</del>
<del>Section No. 8</del>	<del>Structure Plans</del>
<del>Section No. 9</del>	<del>Computer Earthwork Data</del>
<del>Section No. 9</del>	<del>Cross Sections</del>

TOTAL SHEETS = 56



# 32

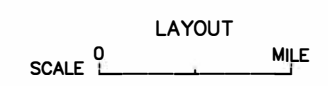
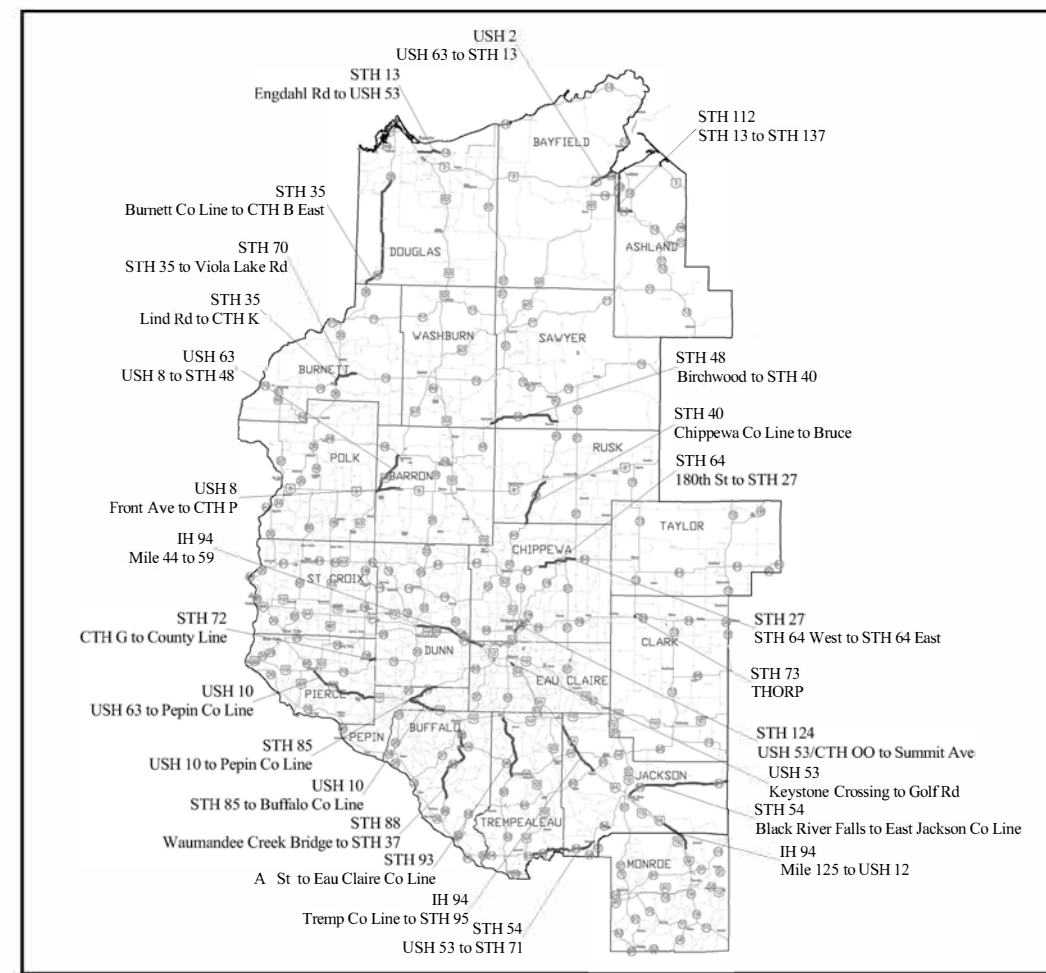
### DESIGN DESIGNATION

A.A.D.T.	=	VARIABLES
A.A.D.T. VARIATIONS	=	VARIABLES
D.H.V.	=	VARIABLES
D.D.	=	VARIABLES
T.	=	VARIABLES
DESIGN SPEED	=	VARIABLES
ESALS	=	VARIABLES

### CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

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



TOTAL NET LENGTH OF CENTERLINE =

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor \_\_\_\_\_  
Designer JEANNIE SILVER  
Project Manager MATTHEW THORNSEN  
Regional Examiner \_\_\_\_\_  
Regional Supervisor MATTHEW THORNSEN

APPROVED FOR THE DEPARTMENT

DATE: 8/29/2023   
(Signature)

GENERAL NOTES

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OR DIGGERS HOTLINE.



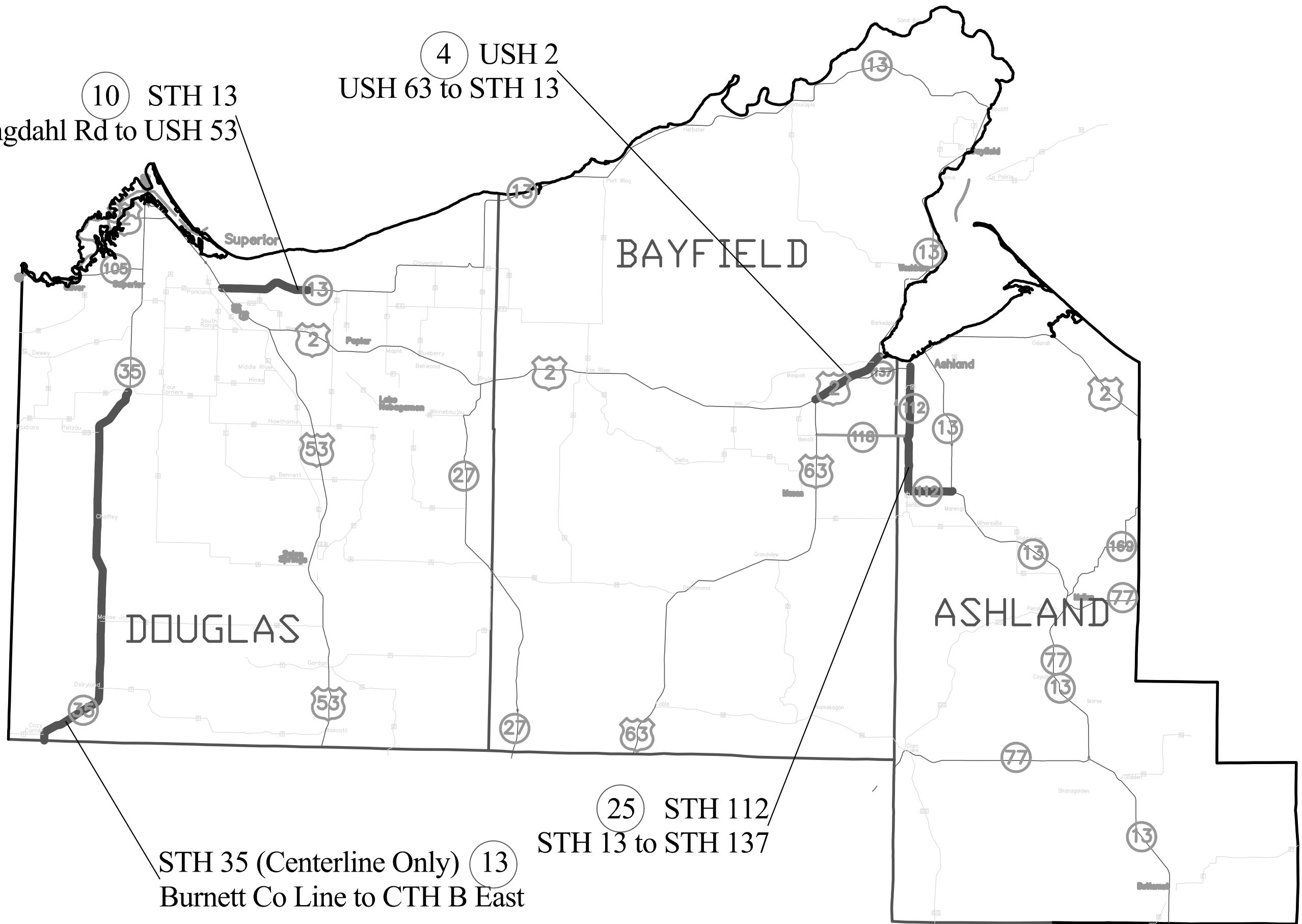
REGION CONTACTS

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 608-246-5408

10 STH 13  
Engdahl Rd to USH 53

4 USH 2  
USH 63 to STH 13



13 STH 35 (Centerline Only)  
Burnett Co Line to CTH B East

25 STH 112  
STH 13 to STH 137

15 STH 48

Birchwood to STH 40

19 STH 70

STH 35 to Viola Lake Rd

12 STH 35

Lind Rd to CTH K

BURNETT

WASHBURN

SAWYER

POLK

BARRON

RUSK

5 USH 8

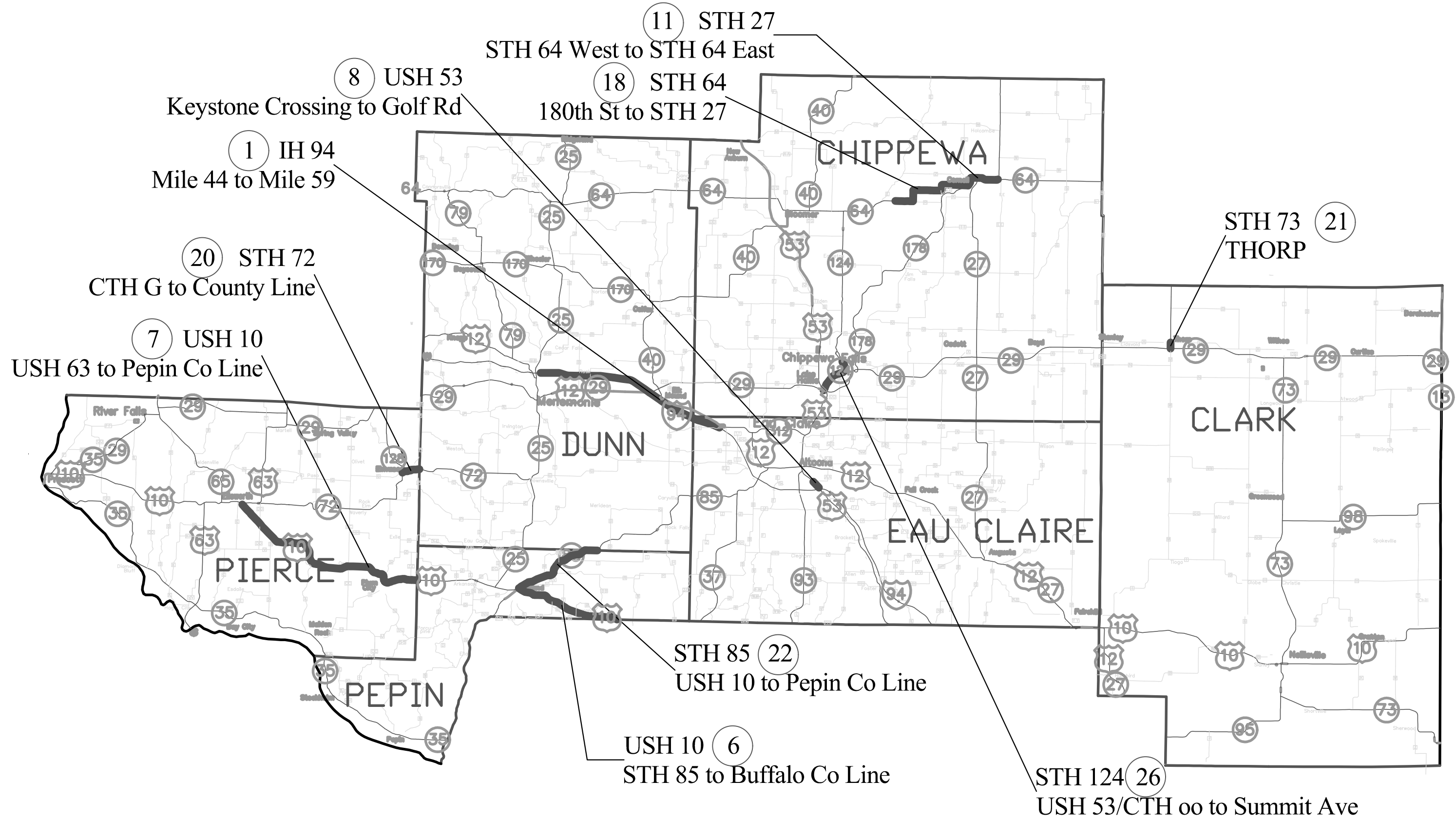
Front Ave to CTH P

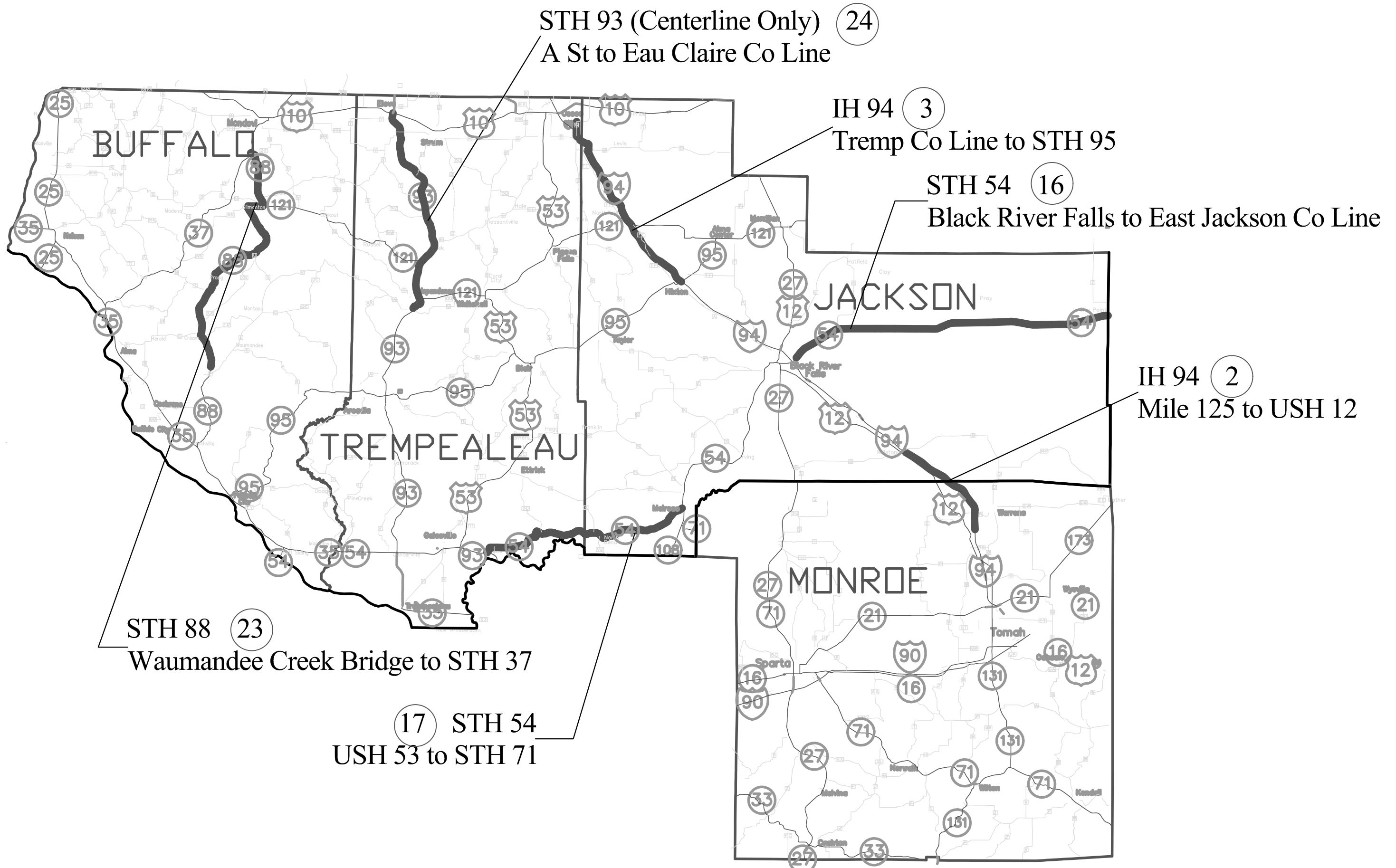
STH 40 14

Chippewa Co Line to Bruce

USH 63 (Edgelines/Lanelines Only) 9

USH 8 to STH 48





Estimate Of Quantities

1000-18-61

Line	Item	Item Description	Unit	Total	Qty
0002	619.1000	Mobilization	EACH	1.000	1.000
0004	646.2020	Marking Line Epoxy 6-Inch	LF	3,849,287.000	3,849,287.000
0006	646.2041.S	Marking Replace Line Wet Reflective Epoxy 6-inch	LF	592,355.000	592,355.000
0008	646.4020	Marking Line Epoxy 10-Inch	LF	29,336.000	29,336.000
0010	646.4041.S	Marking Replace Line Wet Reflective Epoxy 10-inch	LF	31,829.000	31,829.000
0012	646.5020	Marking Arrow Epoxy	EACH	167.000	167.000
0014	646.5120	Marking Word Epoxy	EACH	104.000	104.000
0016	646.5320	Marking Railroad Crossing Epoxy	EACH	8.000	8.000
0018	646.6120	Marking Stop Line Epoxy 18-Inch	LF	2,191.000	2,191.000
0020	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	33.000	33.000
0022	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	316.000	316.000
0024	646.7120	Marking Diagonal Epoxy 12-Inch	LF	2,371.000	2,371.000
0026	646.9200	Marking Removal Line Wide	LF	26.000	26.000
0028	SPV.0060	Special 01. Traffic Control	EACH	1.000	1.000
0030	SPV.0090	Special 01. Marking Line Black Epoxy 6-Inch	LF	89,255.000	89,255.000

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**MAP REFERENCE 1  
EAU CLAIRE/DUNN COUNTY  
IH 94  
950' EAST OF MILE MARKER 44 TO MILE MARKER 59**

Route	LOCATION	646.2020 LINE EPOXY 6-IN		LANE LINE WHITE LF	646.4020 LINE EPOXY 10-IN GORE WHITE LF	646.4041.S LINE WET REF EPOXY 10-IN GORE WHITE LF	SPV.0090.01 MARKING LINE BLACK EPOXY 6-IN LAG BLACK LF	646.6120 STOP LINE EPOXY 18-IN OFF RAMP WHITE LF
		EDGE LINE YELLOW LF	WHITE LF					
IH 94 EB	950' EAST OF MM 44 TO MM 59	80762	79265	20200			20200	
	USH 12 OFF RAMP	1490	1600		215	265		16
	USH 12 ON RAMP	1775	2720			1310		
	CTH B OFF RAMP	1275	1735		300	540		45
	CTH B ON RAMP	1122	2140			1385		
IH 94 WB	MM 59 TO 950' EAST OF MM 44	81258	75337	20200			20200	
	CTH B OFF RAMP	1254	1704		229	775		49
	CTH B ON RAMP	1125	1925			1360		
	USH 12 OFF RAMP	1400	1980		435	275		16
	USH 12 ON RAMP	1680	2190			660		
TOTAL		173141	170596	40400	1179	6570	40400	126

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**MAP REFERENCE 2  
JACKSON AND MORNOE COUNTY  
IH 94  
MM 125 TO USH 12**

Route	LOCATION	646.2020 LINE EPOXY 6-IN		646.2040 LINE WET REF EPOXY 6-IN		LANE LINE WHITE LF	646.4020 LINE EPOXY 10-IN GORE WHITE LF	646.4041.S LINE WET REF EPOXY 10-IN GORE WHITE LF	SPV.0090.01 MARKING LINE BLACK EPOXY 6-IN LAG BLACK LF	646.6120 STOP LINE EPOXY 18-IN OFF RAMP WHITE LF
		EDGE LINE YELLOW LF	WHITE LF	EDGE LINE YELLOW LF	WHITE LF					
IH 94 EB	150' WEST OF MM 125 TO USH 12			96000	93813	5950			5950	
	CTH O OFF RAMP	703	1004				160	1386		53
	CTH O ON RAMP	852	1687					514		
	CTH EW OFF RAMP	1435	1811				180	450		35
	CTH EW ON RAMP	1170	1820					1365		
	USH 12 OFF RAMP	955	1240					660		
IH 94 WB	USH 12 ON RAMP	721	1475							
	USH 12 CO LINE TO 150' WEST OF MM 125			97000	94524	4950			4950	
	USH 12 ON RAMP	665	1445					1375		
	CTH EW OFF RAMP	845	1237				162	490		43
	CTH EW ON RAMP	1285	1930					1175		
	CTH O OFF RAMP	645	985				170	1200		46
	CTH O ON RAMP	785	1400					712		
TOTAL		10061	16034	193000	188337	10900	672	9327	10900	177



**MAP REFERENCE 3  
JACKSON COUNTY  
IH 94  
JACKSON/TREMPEALEAU CO LINE TO STH 95**

Route	LOCATION	646.2020 LINE EPOXY 6-IN		LANE LINE WHITE LF	646.4020 LINE EPOXY 10-IN GORE WHITE LF	646.4041.S LINE WET REF EPOXY 10-IN GORE WHITE LF	SPV.0090.01 MARKING LINE BLACK EPOXY 6-IN LAG BLACK LF	646.6120 STOP LINE EPOXY 18-IN OFF RAMP WHITE LF
		EDGELINE YELLOW LF	WHITE LF					
IH 94 EB	JACKSON/TREMP CO LINE TO STH 95 NORTHSIDE OF BRIDGE DECK	74860	72256	18980			18980	
	STH 121 OFF RAMP	650	1396		40	735		52
	STH 121 ON RAMP	930	2004			1084		
	STH 95 OFF RAMP	830	1625		44	420		53
	STH 95 ON RAMP	860	2730			1090		
IH 94 WB	STH 95 NORTHSIDE OF BRIDGE DECK to JACKSON/TREMP CO LINE	74562	72331	18975			18975	
	STH 95 OFF RAMP	1132	1787		65	1150		50
	STH 95 ON RAMP	1110	2022			400		
	STH 121 OFF RAMP	870	1663		81	492		53
	STH 121 ON RAMP	1225	2434			1136		
	<b>TOTAL</b>	<b>157029</b>	<b>160248</b>	<b>37955</b>	<b>230</b>	<b>6507</b>	<b>37955</b>	<b>208</b>

**MAP REFERENCE 4  
BAYFIELD COUNTY  
USH 2  
Construction Joint east of USH 63 to STH 13, including RAB**

Route	LOCATION	CENTERLINE YELLOW LF	646.2020 LINE EPOXY 6-IN		646.4041.S LINE WET REF EPOXY 10-IN RAB WHITE LF	646.5020 ARROW EPOXY RAB		646.6320 DOTTED EXTENSION 18-IN EPOXY 2' LINE, 2' GAP WHITE LF
			EDGELINE YELLOW LF	WHITE LF		TYPE 1 EACH	TYPE 2R EACH	
USH 2	Construction Joint east of USH 63 to STH 13	37460						
	STH 13 RAB		2415	3101	3737		2	48
	USH 2/STH 13 RAB Bypass Lane		660	1500		2		
	<b>TOTAL</b>	<b>37460</b>	<b>3075</b>	<b>4601</b>	<b>3737</b>	<b>2</b>	<b>2</b>	<b>48</b>

DO NOT PAINT OVER WET REFLECTIVE CHANNELIZING, EDGELINES OR LANE LINES

MAP REFERENCE 5 BARRON COUNTY USH 8 North of Front Ave to CTH P		646.2020 LINE EPOXY 6-IN			646.4020 LINE EPOXY 10-IN			646.5020 ARROW EPOXY						646.5120 WORD EPOXY	646.6320 DOTTED EXTENSION 18-IN EPOXY	646.7120 DIAGONAL EPOXY 12-IN		
Route	LOCATION	CENTERLINE	EDGELINE	LANE LINE	GORE	LEFT TURN	RIGHT TURN	TURN LANE	RAB						ONLY	2' LINE, 2' GAP	MEDIAN	GORE
		YELLOW LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	TYPE 2 EACH	TYPE 1 EACH	TYPE 2 EACH	TYPE 2R EACH	TYPE 3 EACH	TYPE 3R EACH	WHITE EACH	WHITE LF	YELLOW LF	WHITE LF
3 USH 8	Construction Joint north of Front Ave to CTH P Pine St CTH K - RAB	50049	55061	5020		36 1201	145		1						1 1	88	26	44
	USH 63 / Maple St RAB Poplar St 2nd St/ CTH KK					589	300			2	1	2	3	1	1 4 2	80	116	56
	2 1/2 St								2						2			
	3rd St								2						2			
	3.25 St								1						1			
	14th Ave								2						1			
	3 1/2 St 3 3/4 St								2 2						2 2			
4th St 5th St								4 4						4 4				
Garfield St 6th St/CTH P								7 4						7 3		780		
TOTAL		50049	55061	5020	1826	445	4030	39	4	1	2	6	1	37	168	922	100	

**MAP REFERENCE 6  
PEPIN COUNTY  
USH 10  
STH 85 to Pepin/Buffalo Co LINE**

Route	LOCATION	646.2020 LINE EPOXY 6-IN CENTERLINE YELLOW LF
USH 10	Construction Joint East of STH 85 to Pepin/Buffalo Co LINE	54099
TOTAL		54099

**MAP REFERENCE 7  
PIERCE COUNTY  
USH 10  
USH 63 (Ellsworth) to Pierce/Pepin Co LINE**

Route	LOCATION	646.2020 LINE EPOXY 6-IN		646.4020 LINE EPOXY 10-IN	
		CENTERLINE YELLOW LF	EDGELINE WHITE LF	GORE WHITE LF	LEFT TURN WHITE LF
USH 10	USH 63 (east of Ellsworth) to East of CTH A	68518	87809		
	USH 63 635th St			894	115
	East of CTH A to Pierce / Pepin Co LINE	90028			
TOTAL		158546	87809	894	115

MAP REFERENCE 8 EAU CLAIRE COUNTY USH 53 Keystone Crossing Bridge to Golf Rd Joint		646.2020 LINE EPOXY 6-IN EDGE LINE		646.2041.S LINE WET REF EPOXY 6-IN LANE LINE		646.4020 LINE EPOXY 10-IN GORE & LANE 3' LINE, 9' GAP WHITE LF			646.4041.S LINE WET REF EPOXY 10-IN GORE WHITE LF		646.5020 ARROW EPOXY TURN LANE TYPE 2 EACH TYPE 3 EACH		646.5120 WORD EPOXY ONLY WHITE EACH		646.6120 STOP LINE EPOXY 18-IN OFF RAMP INTERSECTING ROADWAY WHITE LF		646.7120 DIAGONAL EPOXY 12-IN GORE WHITE LF		646.6220 Yield LINE EPOXY 18-IN WHITE EACH		636.9200 REMOVAL LINE WIDE LF		Comments
Route	LOCATION	YELLOW LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	TYPE 2 EACH	TYPE 3 EACH	WHITE EACH	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	LF		
USH 53 NB	North Side of Keystone Crossing Bridge to Golf Road Joint	4770	4770	1175					2000														
	USH 53 NB OFF RAMP	1170	2100		114	577				4	2	4	27					13			26	*New GORE	
	USH 53 NB On Ramp	1540	2064	375		721																	
USH 53 SB	Golf Road Joint to North Side of Keystone Crossing Bridge	5650	5650	1200																			
	USH 53 SB OFF RAMP	480	480	38					817	6	2	4	60										
	USH 53 SB On Ramp	511	2033																				
Golf Road WB	Gold Road Overpass			125	24			47	86	1			1		35	53							
Golf Road EB	Golf Road Overpass			150	63		21	39		2			2		36								
TOTAL		14121	17097	3063	201	1298	21	86	2903	13	4		11	87	71	53		13		26			

\*Contact the region for adding a GORE after the Yield and Crosswalk MARKINGS on the NB OFF RAMP.

MAP REFERENCE 9 BARRON COUNTY USH 63 USH 8 TO STH 48		646.2020 LINE EPOXY 6-IN EDGE LINE		646.4020 LINE EPOXY 10-IN RIGHT TURN		646.5020 ARROW EPOXY TURN LANE		646.5120 WORD EPOXY ONLY	
Route	LOCATION	WHITE LF	WHITE LF	WHITE LF	WHITE LF	TYPE 2 EACH	TYPE 3 EACH	WHITE EACH	WHITE EACH
USH 63	USH 8 NORTH JOINT TO STH 48	116810	1750						
	16TH AVE			393		1		1	
	20 1/2 AVE			101					
	CTH G			755		1	1	1	
TOTAL		116810	1750	1249		2	1	2	

DO NOT PAINT CENTERLINE

MAP REFERENCE 10 DOUGLAS COUNTY STH 13 ENGDAHL RD TO USH 53		646.2020 LINE EPOXY 6-IN CENTERLINE		646.4020 LINE EPOXY 10-IN EDGE LINE		646.4020 LINE EPOXY 10-IN RIGHT TURN	
Route	LOCATION	YELLOW LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF
STH 13	Construction Joint, S Engdahl Rd to West Side of Bridge Deck over USH 53	33071		60994			
	USH 53					142	
	TOTAL	33071		60994		142	

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MAP REFERENCE 11 CHIPPEWA COUNTY STH 27 STH 64 WEST TO STH 64 EAST		646.2020 LINE EPOXY 6-IN		646.4020 LINE EPOXY 10-IN	646.6120 STOP LINE EPOXY 18-IN
Route	LOCATION	CENTERLINE YELLOW LF	EDGELINE WHITE LF	RIGHT TURN WHITE LF	INTERSECTING ROADWAY WHITE LF
STH 27	STH 64 WEST TO STH 64 EAST CTH CC STH 64 EAST	13554	15660	100 402	33
TOTAL		13554	15660	502	33

MAP REFERENCE 12 BURNETT COUNTY STH 35 PUB/LIND RD TO CTH K		646.2020 LINE EPOXY 6-IN		646.2041.S LINE WET REF EPOXY 6-IN	646.4020 LINE EPOXY 10-IN	646.4041.S LINE WET REF EPOXY 10-IN		646.5020 ARROW EPOXY			646.5120 WORD EPOXY	646.6320 DOTTED EXTENSION 18-IN EPOXY	646.7120 DIAGONAL EPOXY 12-IN
Route	LOCATION	CENTERLINE YELLOW LF	EDGELINE WHITE LF	LANE LINE WHITE LF	RIGHT TURN WHITE LF	TURN LANE WHITE LF	RAB WHITE LF	TYPE 1 EACH	TYPE 2 EACH	TYPE 2R EACH	RAB WHITE EACH	2' LINE, 2' GAP WHITE LF	MEDIAN YELLOW LF
STH 35	PUB/LIND RD CONSTRUCTION JOINT TO CTH K LIND RD STH 70 RAB CTH K	9304	6289	500		1487	1144	2	3	4	5	52	73
TOTAL		9304	6289	500	200	1487	1144	2	5	4	7	52	73

MAP REFERENCE 13 DOUGLAS COUNTY STH 35 BURNETT/DOUGLAS CO LINE TO CTH B		646.2020 LINE EPOXY 6-IN
Route	LOCATION	CENTERLINE YELLOW LF
STH 35	DOUGLAS/BURNETT CO LINE TO CTH B WEST (NORTHSIDE OF BRIDGE DECK)	145644
TOTAL		145644

DO NOT PAINT WET REFLECTIVE EDGELINES

MAP REFERENCE 14 RUSK COUNTY STH 40 CHIPPEWA/RUSK CO LINE TO USH 8		646.2020 LINE EPOXY 6-IN		646.6120 STOP LINE EPOXY 18-IN
Route	LOCATION	CENTERLINE YELLOW LF	EDGELINE WHITE LF	MAINLINE WHITE LF
STH 40	RUSK COUNTY LINE TO USH 8 USH 8	98280	135242	22
TOTAL		98280	135242	22

**MAP REFERENCE 15  
SAWYER AND WASHBURN COUNTIES  
STH 48  
WEST OF PARK AVE, BIRCHWOOD TO STH 40**

Route	LOCATION	646.2020 LINE EPOXY 6-IN		646.5320 RAILROAD CROSSING EPOXY	646.6120 STOP LINE EPOXY 18-IN
		CENTERLINE YELLOW LF	EDGELINE WHITE LF	MAINLINE WHITE EACH	MAINLINE WHITE LF
STH 48	WEST PARK AVE, BIRCHWOOD TO STH 40	136385	186594		
	POLISH ROAD STH 40			2	20
TOTAL		136385	186594	2	20

**MAP REFERENCE 16  
JACKSON COUNTY  
STH 54  
BLACK RIVER FALLS TO WOOD CO LINE**

Route	LOCATION	646.2020 LINE EPOXY 6-IN		646.4020 LINE EPOXY 10-IN		646.5020 ARROW EPOXY	646.5120 WORD EPOXY	646.5320 RAILROAD CROSSING EPOXY	646.7120 DIAGONAL EPOXY 12-IN
		CENTERLINE YELLOW LF	EDGELINE WHITE LF	LEFT TURN WHITE LF	RIGHT TURN WHITE LF	TURN LANE TYPE 2 EACH	ONLY WHITE EACH	MAINLINE WHITE EACH	MEDIAN YELLOW LF
STH 54	OASIS RD TO WOOD CO LINE BAUER RD VAUDERAIL RD	101742	268910	310				4	
	RED IRON RD/LEICHT RD WA EHI HO Ci Drive Way Old 54 Rd/Mission Rd			425	195	2	1		500
	WHITE Tail Rd/Ho Chunk Casino WHITE Hawk Rd/ Ho Chunk Casino			220	200	2	1		396
	WHITE Tail Rd/Ho Chunk Casino WHITE Hawk Rd/ Ho Chunk Casino			220	185	4	2		
	WHITE Hawk Rd/ Ho Chunk Casino WHITE Hawk Rd/ Ho Chunk Casino			605	185	4	2		
TWLTL WHITE Hawk Rd to Ho Chunk Dr Ho Chunk Dr			400	200	10	3		327	
TOTAL		101742	268910	2545	965	28	9	4	1223

\*SKIP LANE LINES

**MAP REFERENCE 17  
TREMPEALEAU AND JACKSON COUNTIES  
STH 54  
USH 53 TO STH 71**

Route	LOCATION	646.2020 LINE EPOXY 6-IN		646.6120 STOP LINE EPOXY 18-IN	COMMENTS
		CENTERLINE YELLOW LF	EDGELINE WHITE LF	INTERSECTING ROADWAY WHITE LF	
STH 54	USH 53 TO JACKSON/TREMP CO LINE STH 54	81085	94989	20	
	JACKSON/TREMP CO LINE TO STH 71	83775			CENTERLINE ONLY
TOTAL		164860	94989	20	

**MAP REFERENCE 18  
CHIPPEWA COUNTY  
STH 64  
180TH St to STH 27 SOUTH**

Route	LOCATION	646.2020 LINE EPOXY 6-IN		646.4020 LINE EPOXY 10-IN		646.6120 STOP LINE EPOXY 18-IN
		CENTERLINE YELLOW LF	EDGELINE WHITE LF	GORE WHITE LF	RIGHT TURN WHITE LF	INTERSECTING ROADWAY WHITE LF
STH 64	CONSTRUCTION JOINT EAST OF 180TH ST TO STH 27 SOUTH	82267	98747		100	
	CTH CC			45		
	CTH R STH 178				68	44
	TOTAL	82267	98747	45	168	44

**MAP REFERENCE 19  
BURNETT COUNTY  
STH 70  
STH 35 TO VIOLA LAKE RD**

Route	LOCATION	646.2020 LINE EPOXY 6-IN		646.2041.S LINE WET REF EPOXY 6-IN		646.4020 LINE EPOXY 10-IN	646.4041.S LINE WET REF EPOXY 10-IN	646.5020 ARROW EPOXY	646.5120 WORD EPOXY
		CENTERLINE YELLOW LF	EDGELINE WHITE LF	CENTERLINE YELLOW LF	EDGELINE WHITE LF	LEFT TURN WHITE LF	TURN LANE WHITE LF	TURN LANE TYPE 2 EACH	ONLY WHITE EACH
STH 70	STH 35 TO VIOLA LAKE RD	3644	2650	19213	43647		154		
	CLAM LAKE DR PRIVATE ENTRANCE					110		1	1
	STH 35								
	TOTAL	3644	2650	19213	43647	110	154	1	1

**MAP REFERENCE 20  
PIERCE COUNTY  
STH 72  
CTH G TO DUNN COUNTY LINE**

Route	LOCATION	646.2020 LINE EPOXY 6-IN		646.4020 LINE EPOXY 10-IN
		CENTERLINE YELLOW LF	EDGELINE WHITE LF	RIGHT TURN WHITE LF
STH 72	CTH G TO DUNN COUNTY LINE	14407	13668	
	CTH G			204
	StH 128			100
	TOTAL	14407	13668	304

MAP REFERENCE 21 CLARK COUNTY STH 73 THORP		646.2020 LINE EPOXY 6-IN CENTERLINE YELLOW LF	646.4020 LINE EPOXY 10-IN LEFT TURN WHITE LF	646.5320 RAILROAD CROSSING EPOXY MAINLINE WHITE EACH
Route	LOCATION			
STH 73	KRYCH ST, THORP TO NYE ST THROP KRYCH ST BIRCH ST	3483	101	2
TOTAL		3483	101	2

DO NOT PAINT EDGELINES

MAP REFERENCE 22 PEPIN COUNTY STH 85 USH 10 TO PEPIN/DUNN CO LINE		646.2041.S LINE WET REF EPOXY 6-IN CENTERLINE YELLOW LF	EDGELINE WHITE LF	646.4020 LINE EPOXY 10-IN RIGHT TURN WHITE LF	646.5020 ARROW EPOXY TURN LANE TYPE 2 EACH	646.6120 STOP LINE EPOXY 18-IN MAINLINE WHITE LF
Route	LOCATION					
STH 85	USH 10 to Pepin/Dunn Co LINE USH 10 & CTH V	56915	76579	609	2	46
TOTAL		56915	76579	609	2	46

MAP REFERENCE 23 BUFFALO COUNTY STH 88 LITTLE WAUMANDEE CREEK TO STH 37		646.2020 LINE EPOXY 6-IN	
Route	LOCATION	CENTERLINE YELLOW LF	EDGELINE WHITE LF
STH 88	Little Waumandee Creek Bridge TO CTH U (EAST) CTH U EAST TO STH 37	98057 98118	125807 108363
TOTAL		196175	234170

3

**MAP REFERENCE 24  
TREMPEALEAU COUNTY  
STH 93  
A ST TO TREMP/EAU CLIARE CO LINE**

646.2020  
LINE  
EPOXY 6-IN  
CENTERLINE  
YELLOW  
LF

Route	LOCATION	
STH 93	A St TO TREMPEALEAU/EAUCLAIRE CO LINE	148923
TOTAL		148923

DO NOT PAINT WET REFLECTIVE EDGELINES

3

**MAP REFERENCE 25  
ASHLAND COUNTY  
STH 112  
STH 13 TO STH 137**

646.2020 LINE EPOXY 6-IN		646.4020 LINE EPOXY 10-IN		646.6120 STOP LINE EPOXY 18-IN	
CENTERLINE	EDGELINE	GORE	RIGHT TURN	MAINLINE	
YELLOW LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	

STH 112	STH 13 TO STH 137	40606	76475			33
	STH 13 Dahlstorm Rd/Klaus Rd				202	
	STH 118				370	
	STH 137			40		18
TOTAL		40606	76475	40	572	51

**MAP REFERENCE 26  
CHIPPEWA COUNTY  
STH 124  
USH 53/ CTH OO TO CHIPPEWA FALLS**

646.2020 LINE EPOXY 6-IN		646.4020 LINE EPOXY 10-IN				646.5020 ARROW EPOXY				646.5120 WORD EPOXY	646.6120 STOP LINE EPOXY 18-IN		646.6320 DOTTED EXTENSION 18-IN EPOXY	646.6220 YIELD MARKING			
CENTERLINE	EDGELINE	LANE LINE	GORE	RAB	LEFT TURN	RIGHT TURN	TURN LANE		RAB			ONLY	MAINLINE	INTERSECTING ROADWAY	2' LINE, 2' GAP	MAINLINE	
YELLOW LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	TYPE 2 EACH	TYPE 3 EACH	TYPE 1 EACH	TYPE 2 EACH	TYPE EACH	TYPE 3 EACH	WHITE EACH	WHITE LF	WHITE LF	WHITE SF	WHITE EACH

STH 124	NORTH OF USH 53 BRIDGE DECK/CTH OO TO SUMMIT AVE Turn to USH 53 On Ramp	39902	40683	11007										6	36				
	Commercial Blvd CTH OO/Bus 53						740	515	10				10	96	80				
	CTH J 40th Ave						615	758	10	2			12	84	72				
	47th/Park Ave																		
	133rd St Woodward Ave														111	110			
	RAB Business STH 29 Summit Ave						2147	1114						4	164	104		20	
TOTAL		39902	40683	11007	2147	1114	4146	3581	35	2	5	4	1	1	37	702	584	48	20

Do not paint bridge deck. Paint cat tracks



NORTHWEST REGIONWIDE LONGLINE EPOXY SUMMARY					646.2020 LINE EPOXY 6-IN				646.2041.S LINE WET REF EPOXY 6-IN					646.4020 LINE EPOXY 10-IN					646.4041.S LINE WET REF EPOXY 10-IN			SPV.0090.01 MARKING LINE BLACK EPOXY 6-IN	
Map Ref	Route	County	Miles	Segment	CENTERLINE	EDGELINE		LANE LINE	CENTERLINE	EDGELINE		LANE LINE	3' LINE, 9' GAP	GORE	3' LINE, 9' GAP	2' LINE, 6' GAP	LEFT TURN	RIGHT TURN	TURN LANE	RAB	GORE	LAG	
					YELLOW LF	YELLOW LF	WHITE LF	WHITE LF	YELLOW LF	YELLOW LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF
1	IH 94	EAU CLAIRE & DUNN	14	950' EAST OF MILE MARKER 44 TO MILE MARKER 59		173141	170596	40400						1179							6570	40400	
2	IH 94	JACKSON & MONROE	15	MM 125 TO USH 12		10061	16034			193000	188337	10900		672							9327	10900	
3	IH 94	JACKSON	14	JACKSON/TREMPEALEAU CO LINE TO STH 95		157029	160248	37955						230							6507	37955	
4	USH 2	BAYFIELD	6	Construction Joint east of USH 63 to STH 13	37460	3075	4601													3737			
5	USH 8	BARRON	6	FRONT AVE, TURTLE LAKE TO CTH P	50049		55061	5020						1826			445	4030					
6	USH 10	PEPIN	9	STH 85 TO PEPIN/BUFFALO CO LINE	54099																		
7	USH 10	PIECE	28	USH 63 TO PIERCE/PEPIN CO LINE	158546		87809							894			115						
8	USH 53	Eau CLAIRE	1	KEYSTONE BRIDGE TO GOLF ROAD JOINT		14121	17097					3063	201	1298	21	86					2903		
9	USH 63	BARRON	9	USH 8 TO USH 48			116810	1750										1249					
10	STH 13	DOUGLAS	6	ENGDAHL RD TO USH 53	33071		60994															142	
11	STH 27	CHIPPEWA	2	STH 64 WEST TO STH 64 EAST	13554		15660															502	
12	STH 35	BURNET	1	PUB/LIND RD TO CTH K	9304		6289					500										200	
13	STH 35	DOUGLAS	29	BURNETT CO LINE TO CTH B	145644																	1487	
14	STH 40	RUSK	13	CHIPPEWA CO LINE TO USH 8/BRUCE	98280		135242															1144	
15	STH 48	WASHBURN & SAWYER	18	BIRCHWOOD TO STH 40	136385		186594																
16	STH 54	JACKSON	26	OASIS AVE TO WOOD CO LINE	101742		268910										2545	965					
17	STH 54	TREMP & JACKSON	17	USH 53 TO STH 71	164860		94989																
18	STH 64	CHIPPEWA	3	180TH sat TO STH 27 SOUTH	82267		98747							45								168	
19	STH 70	BURNETT	4.5	STH 35 TO VIOLA LAKE RD	3644		2650		19213		43647							110		154			
20	STH 72	PIERCE	1.5	CTH G TO DUNN CO LINE	14407		13668															304	
21	STH 73	CLARK	1	THORP	3483												101						
22	STH 85	PEPIN	7.5	USH 10 TO PEPIN/DUNN CO LINE					56915		76579											609	
23	STH 88	BUFFALO COUNTY	22	LITTLE WAUMANDEE CREEK TO STH 37	196175		234170																
24	STH 93	TREMPEALAU	18	STH 121 TO TREMEALEAU/EAU CLAIRE CO LINE	148923																		
25	STH 112	ASHLAND	13	STH 13 TO STH 137	40606		76475							40								572	
26	STH 124	CHIPPEWA	4.5	USH 53 TO SUMMIT AVE	39902		40683	11007						2147	1114		4146	3581					
SUBTOTAL					1532401	357427	1863327	96132	76128	193000	308563	14463	201	8331	1135	86	7462	12322	1641	4881	25307	89255	
TOTAL						3849287				592355					29336					31829		89255	

SPV.0060.01 TRAFFIC CONTROL	1	EACH
619.1000 MOBILIZATION	1	EACH

**NORTHWEST REGIONWIDE SPECIAL MARKING EPOXY SUMMARY**

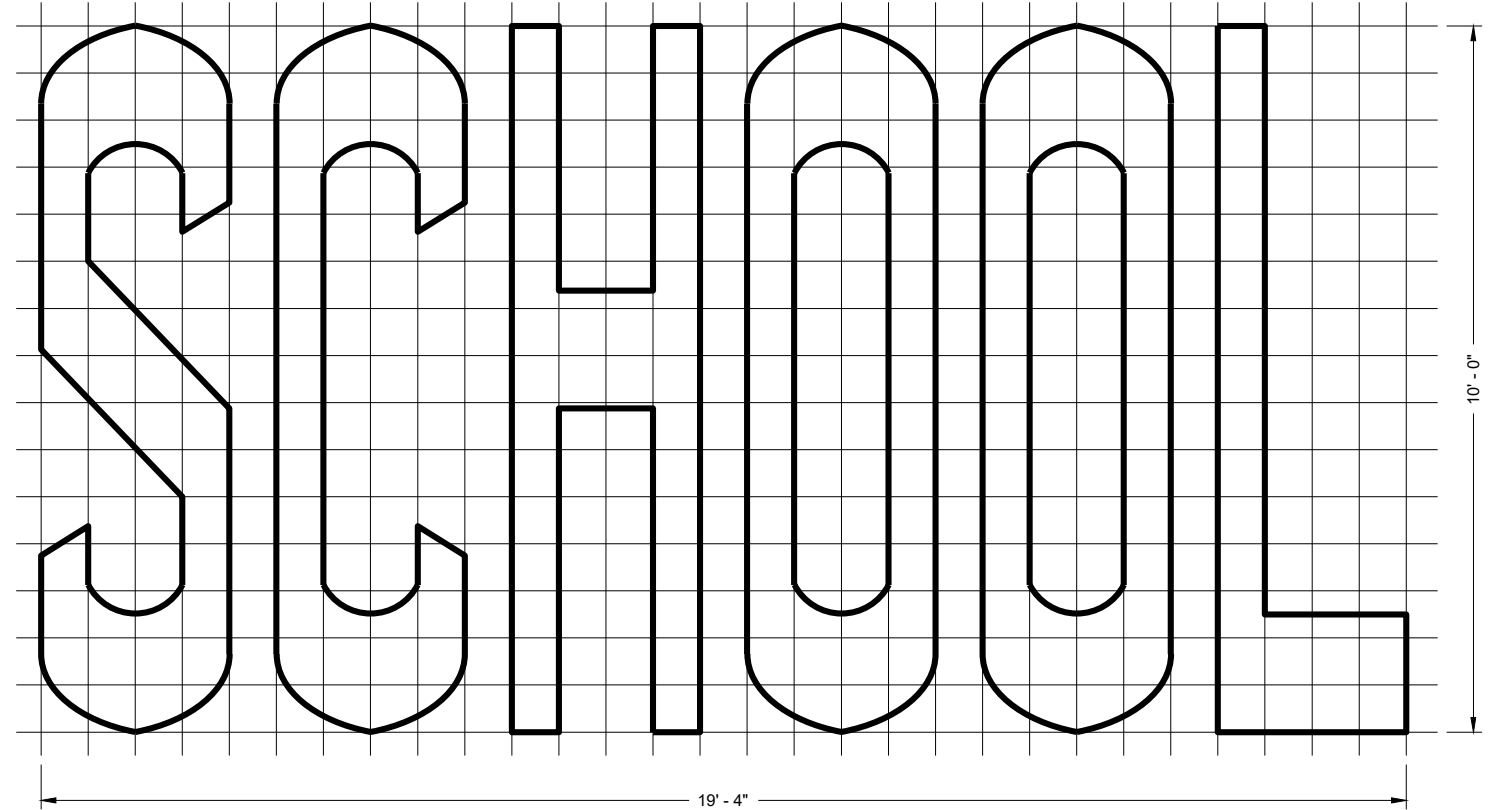
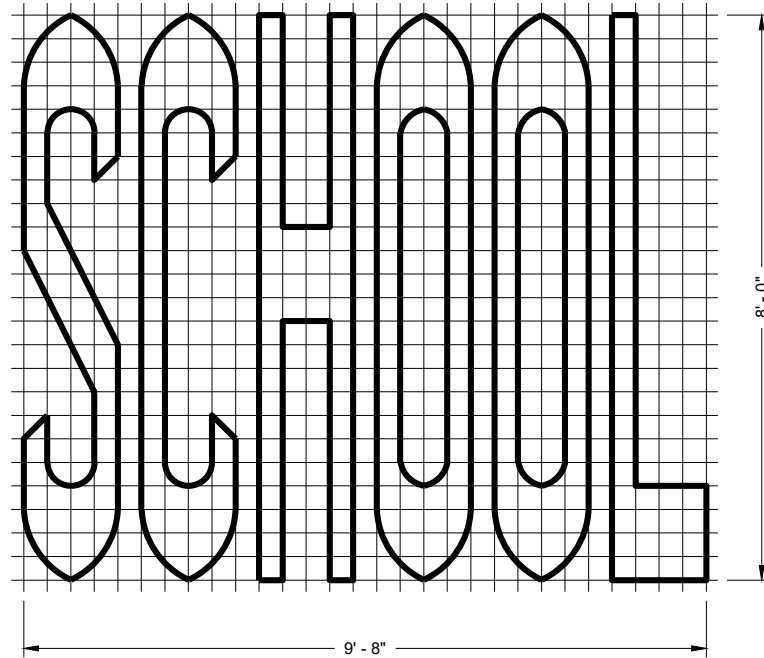
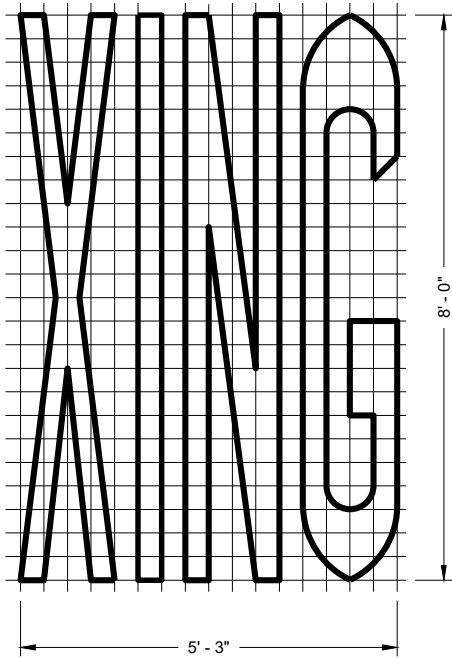
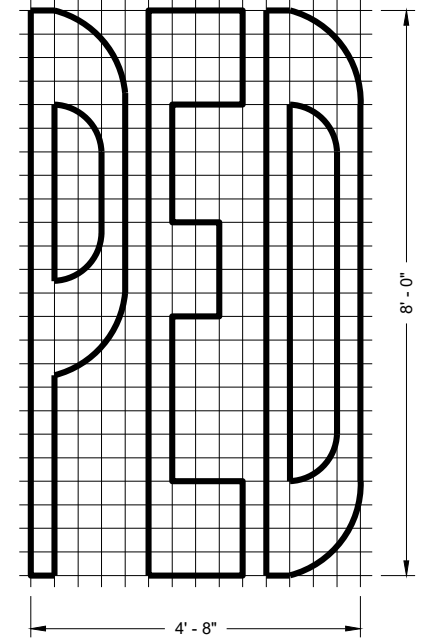
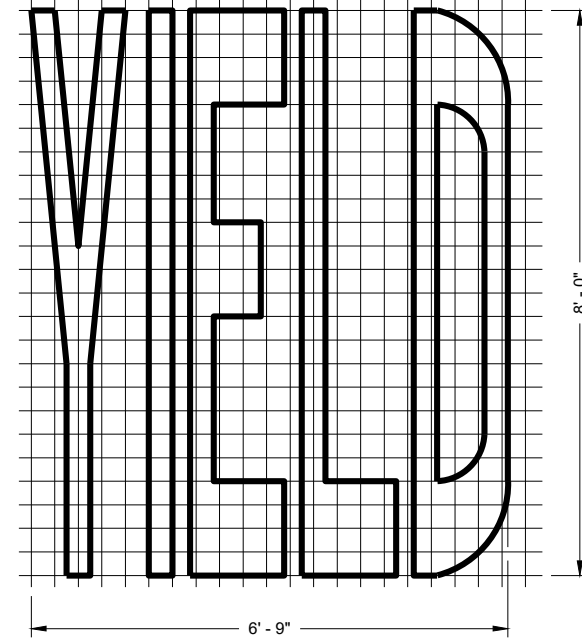
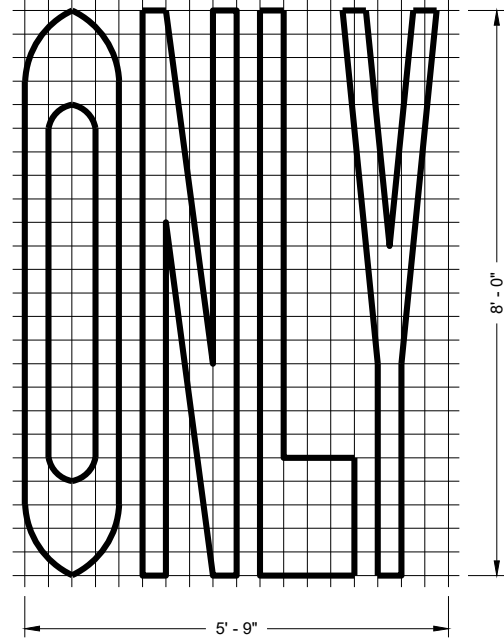
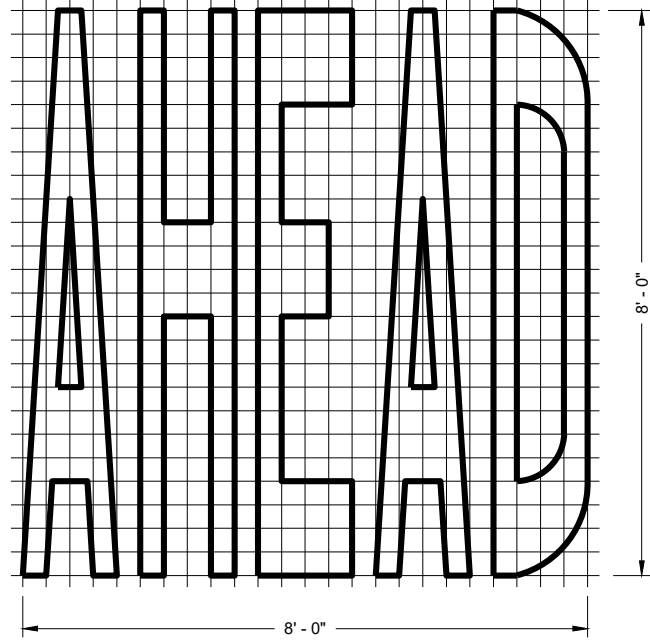
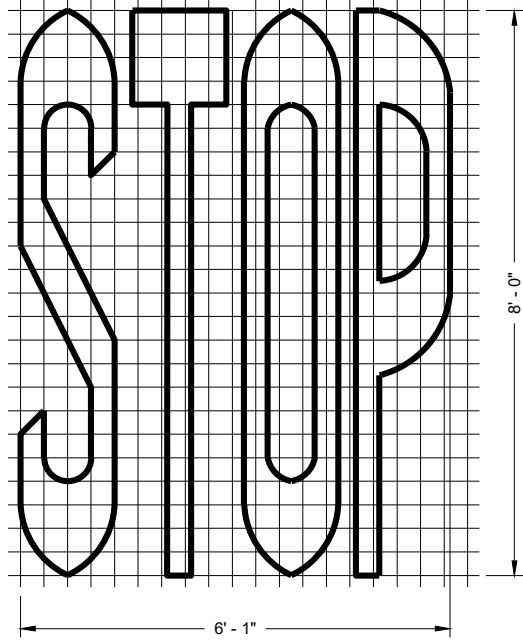
Map Ref	Route	County	Segment	TURN LANE		646.5020 ARROW EPOXY					646.5120 WORD EPOXY	646.5320 RAILROAD CROSSING EPOXY	646.6120 STOP LINE EPOXY 18-IN		646.6320 DOTTED EXTENSION 18-IN EPOXY	646.7120 DIAGONAL EPOXY 12-IN		646.6220 YIELD MARKING	636.9200 REMOVAL LINE WIDE	
				TYPE 2 EACH	TYPE 3 EACH	TYPE 1 EACH	TYPE 2 EACH	TYPE 2R EACH	TYPE 3 EACH	TYPE 3R EACH	ONLY	MAINLINE	MAINLINE	OFF RAMP	INTERSECTING ROADWAY	2' LINE, 2' GAP WHITE LF	MEDIAN	GORE	MAINLINE	STOP LINE
											WHITE EACH	WHITE EACH	WHITE LF	WHITE LF	WHITE LF		WHITE LF	WHITE EACH	WHITE LF	
1	IH 94	EAU CLAIRE & DUNN	950' EAST OF MILE MARKER 44 TO MILE MARKER 59											126						
2	IH 94	JACKSON & MONROE	MM 125 TO USH 12											177						
3	IH 94	JACKSON	JACKSON/TREMPEALEAU CO LINE TO STH 95											208						
4	USH 2	BAYFIELD	Construction Joint east of USH 63 to STH 13			2		2								48				
5	USH 8	BARRON	FRONT AVE, TURTLE LAKE TO CTH P	39		4	1	2	6	1	37				168	922	100			
7	USH 10	PIECE	USH 63 TO PIERCE/PEPIN CO LINE																	
8	USH 53	Eau CLAIRE	KEYSTONE BRIDGE TO GOLF ROAD JOINT	13	4						11			87	71		53	13	26	
9	USH 63	BARRON	USH 8 TO USH 48	2	1						2									
11	STH 27	CHIPPEWA	STH 64 WEST TO STH 64 EAST												33					
12	STH 35	BURNET	PUB/LIND RD TO CTH K			2	5	4			7					52	73			
14	STH 40	RUSK	CHIPPEWA CO LINE TO USH 8/BRUCE										22							
15	STH 48	WASHBURN & SAWYER	BIRCHWOOD TO STH 40										20							
16	STH 54	JACKSON	OASIS AVE TO WOOD CO LINE	28							9	4					1223			
17	STH 54	TREMP & JACKSON	USH 53 TO STH 71												20					
18	STH 64	CHIPPEWA	180TH st TO STH 27 SOUTH												44					
19	STH 70	BURNETT	STH 35 TO VIOLA LAKE RD	1							1									
21	STH 73	CLARK	THORP									2								
22	STH 85	PEPIN	USH 10 TO PEPIN/DUNN CO LINE	2									46							
25	STH 112	ASHLAND	STH 13 TO STH 137										51							
26	STH 124	CHIPPEWA	USH 53 TO SUMMIT AVE	35	2	5	4	1	1		37		702		584	48		20		
SUBTOTAL				120	7	13	10	9	7	1	104	8	841	598	752	316	2218	153	33	26
TOTAL							167				104	8		2191		316	2371	33	26	

3

3

## Standard Detail Drawing List

15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15D	ROUNDBABOUT ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23C	PAVEMENT MARKING (TURN LANES)
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C09-13A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
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
15C18-08C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
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
15C20-02	YIELD MARKING
15C21-11	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C31-05A	PAVEMENT MARKING EXIT RAMP AND PARALLEL EXIT RAMP
15C31-05B	PAVEMENT MARKING MAJOR SPLIT FREEWAY TO FREEWAY
15C31-05C	PAVEMENT MARKING ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP
15C31-05D	PAVEMENT MARKING LANE DROP AND LANE REDUCTION
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15C35-06B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-06C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D12-11A	TRAFFIC CONTROL, LANE CLOSURE
15D20-07A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
15D20-07B	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D20-07C	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D37-03	TRAFFIC CONTROL, 2-LANE ROUNDABOUT
15D43-02	TRAFFIC CONTROL, SHORT DURATION MOBILE OPERATIONS
15D50-03A	TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT
15D50-03B	TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY



SINGLE LANE

TWO - LANE

**GENERAL NOTES**

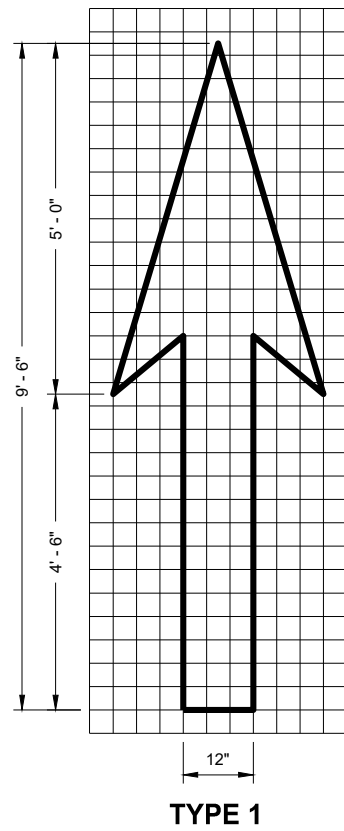
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

**PAVEMENT MARKING WORDS**

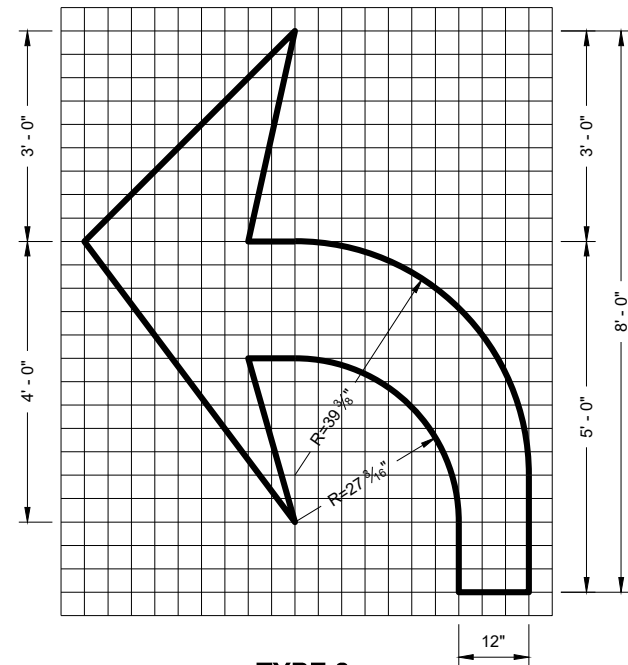
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

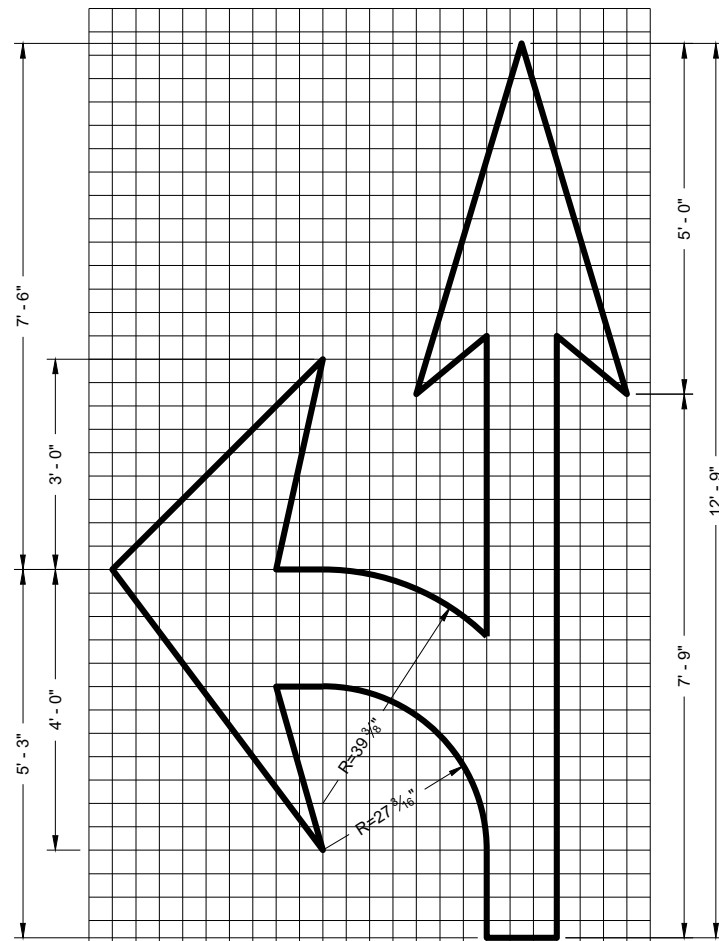
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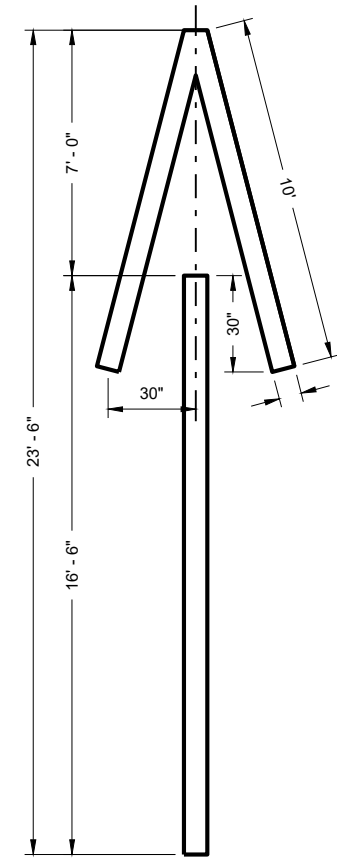
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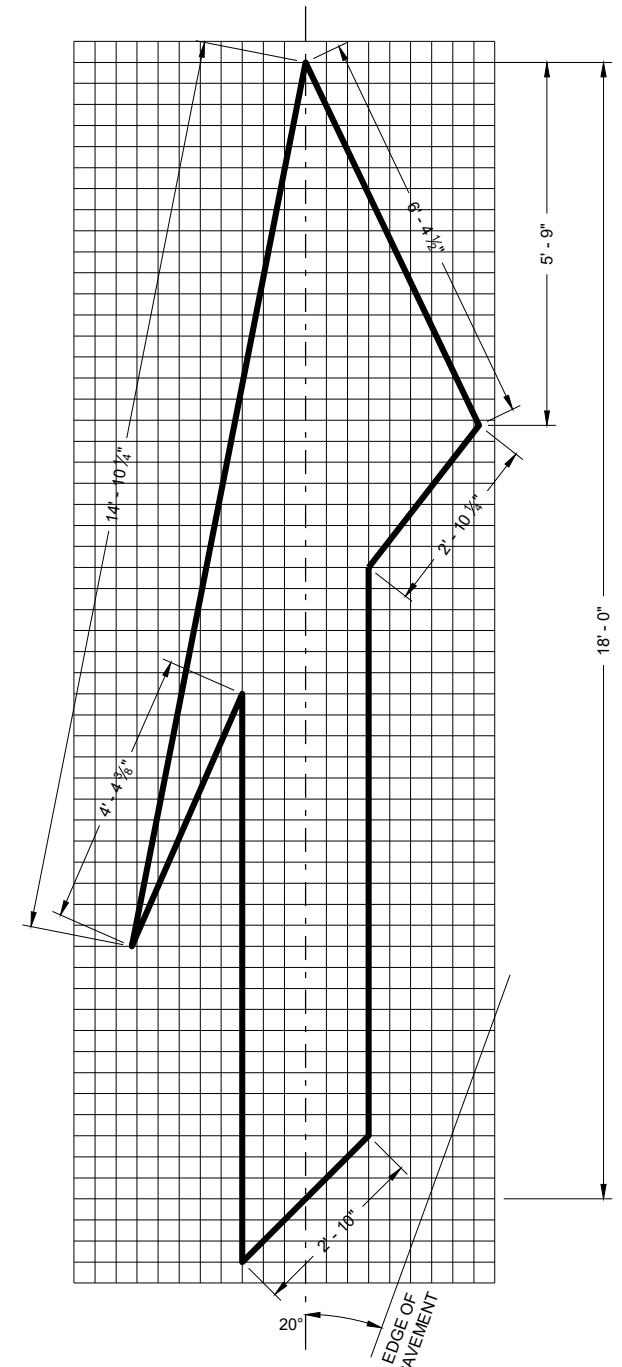
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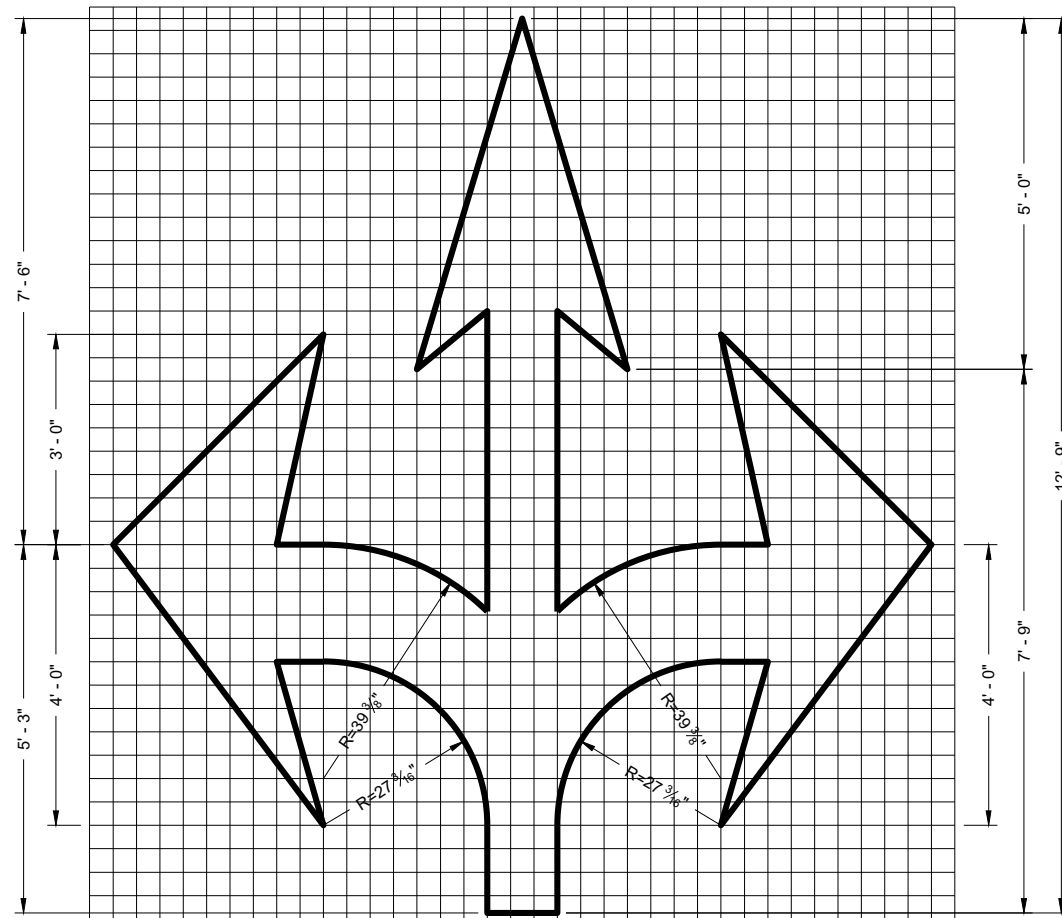
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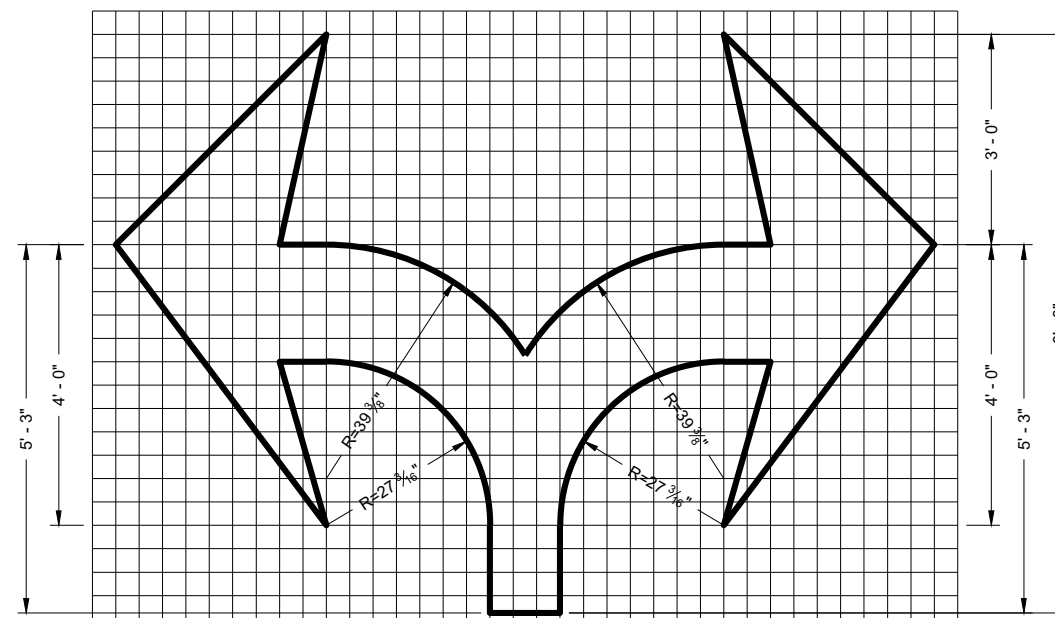
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

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.

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

November 2019

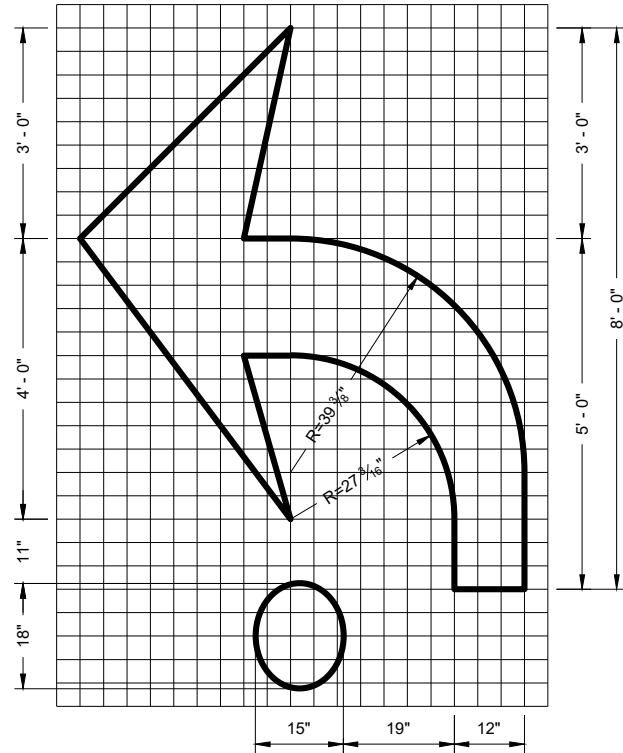
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FHWA

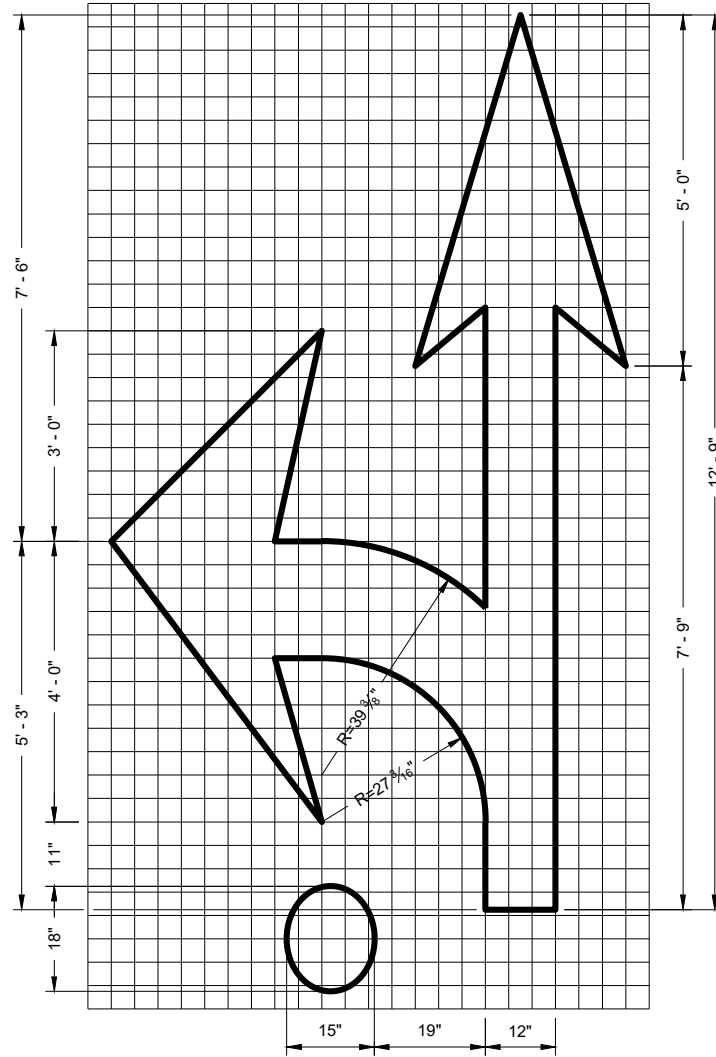
/s/ Matthew Rauch  
STATE SIGNING AND MARKING  
ENGINEER

**GENERAL NOTES**

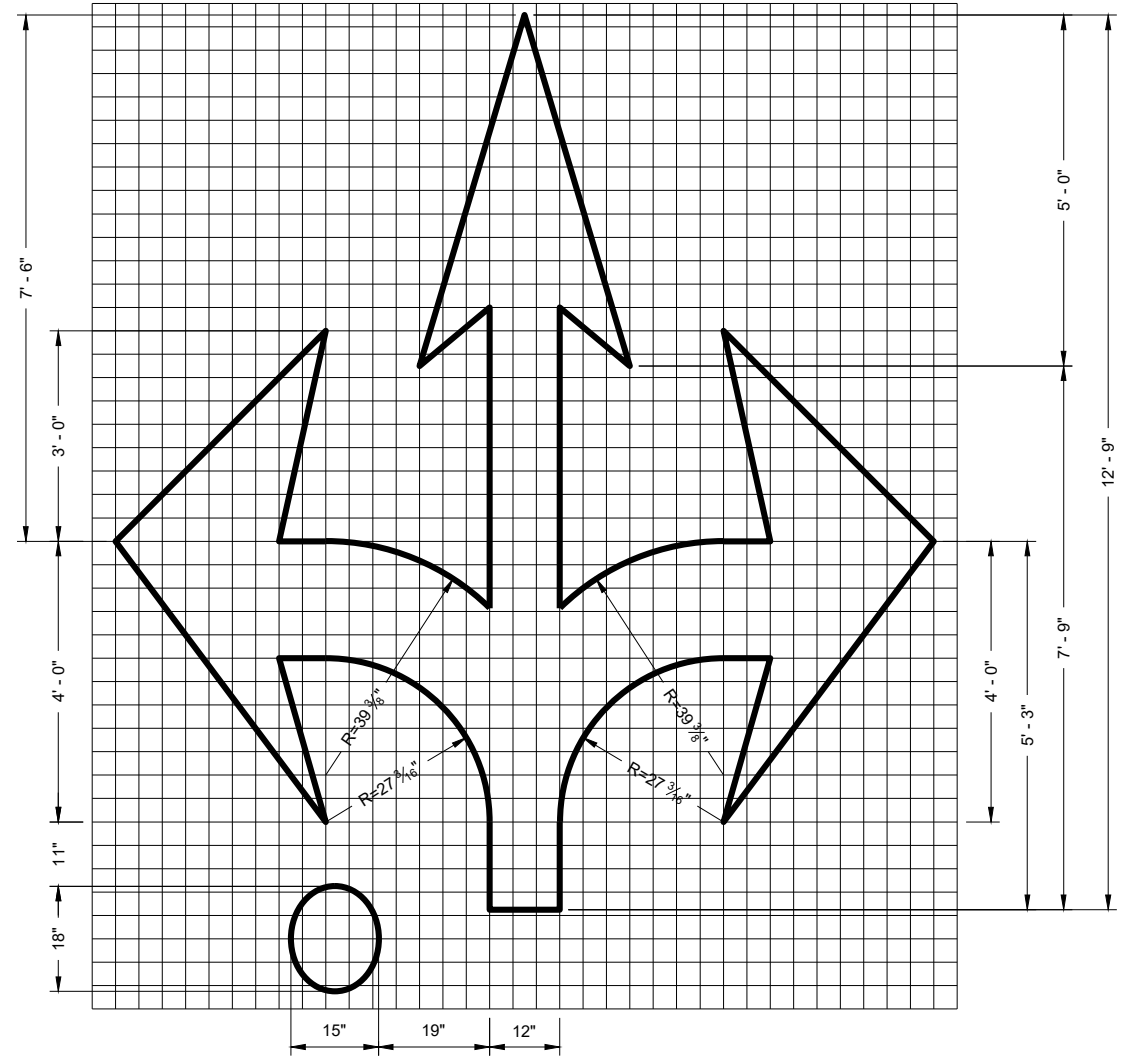
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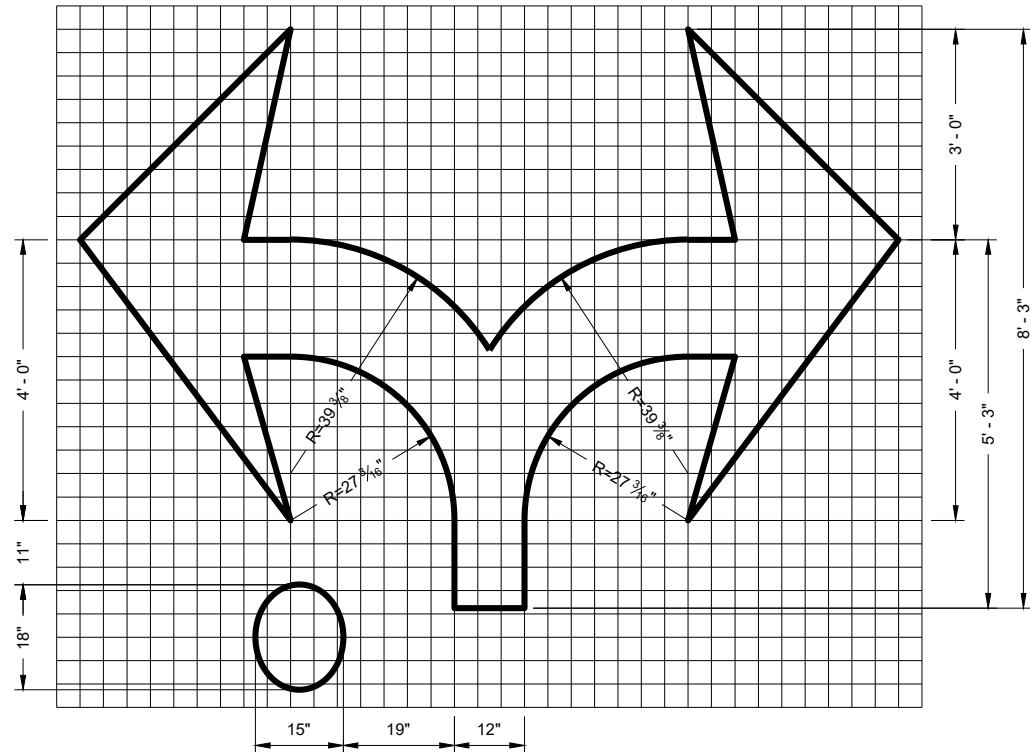
**TYPE 2R**



**TYPE 3R**



**TYPE 6R**



**TYPE 7R**

**ROUNDBOUT  
MARKING ARROWS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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




FHWA

**GENERAL NOTES**

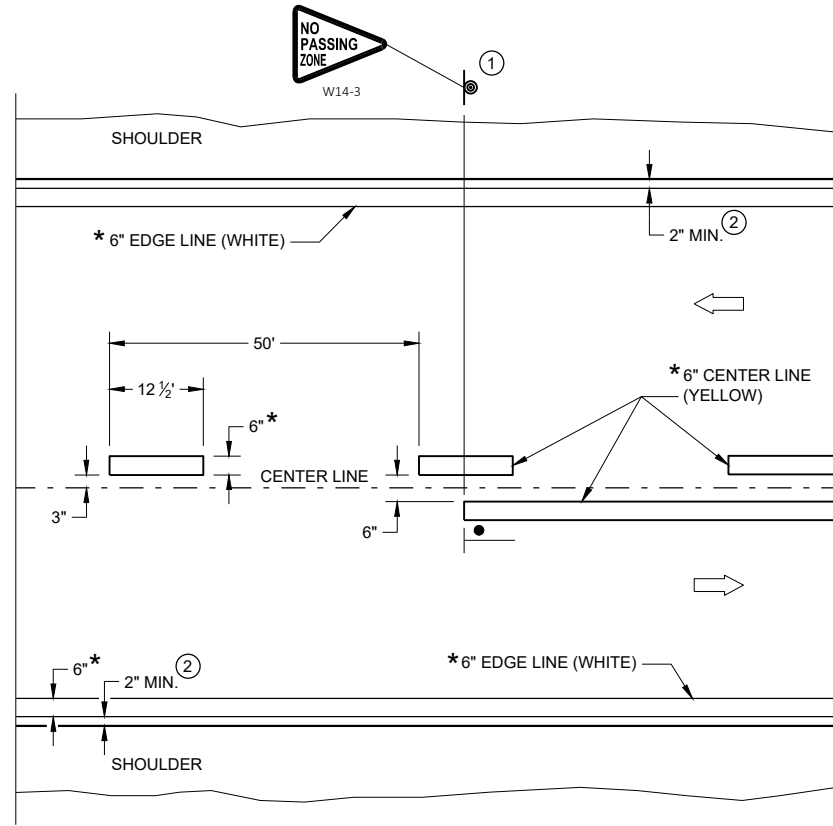
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

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

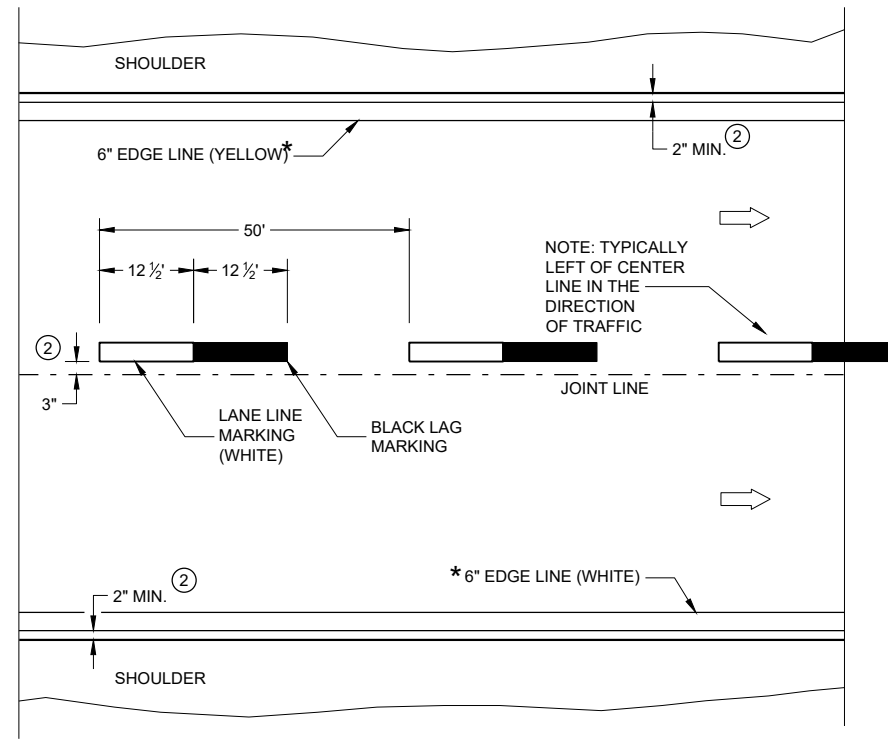
**LEGEND**

-  "T" MARKING
-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC

\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



**TWO WAY TRAFFIC**



**ONE WAY TRAFFIC**

**PERMANENT PAVEMENT MARKING**

**PERMANENT LONGITUDINAL PAVEMENT MARKINGS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

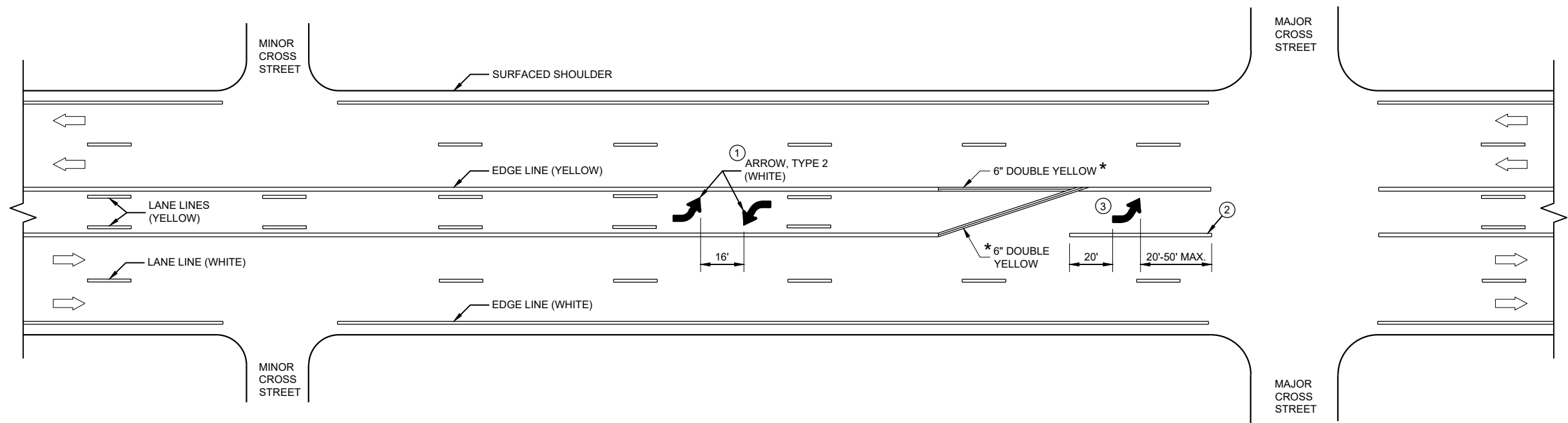
APPROVED  
May 2023 /S/ Jeannie Silver  
DATE STATEWIDE SIGNING AND MARKING ENGINEER

**GENERAL NOTES**

- ① A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ② 10" WHITE
- ③ TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

➡ DIRECTION OF TRAFFIC

\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

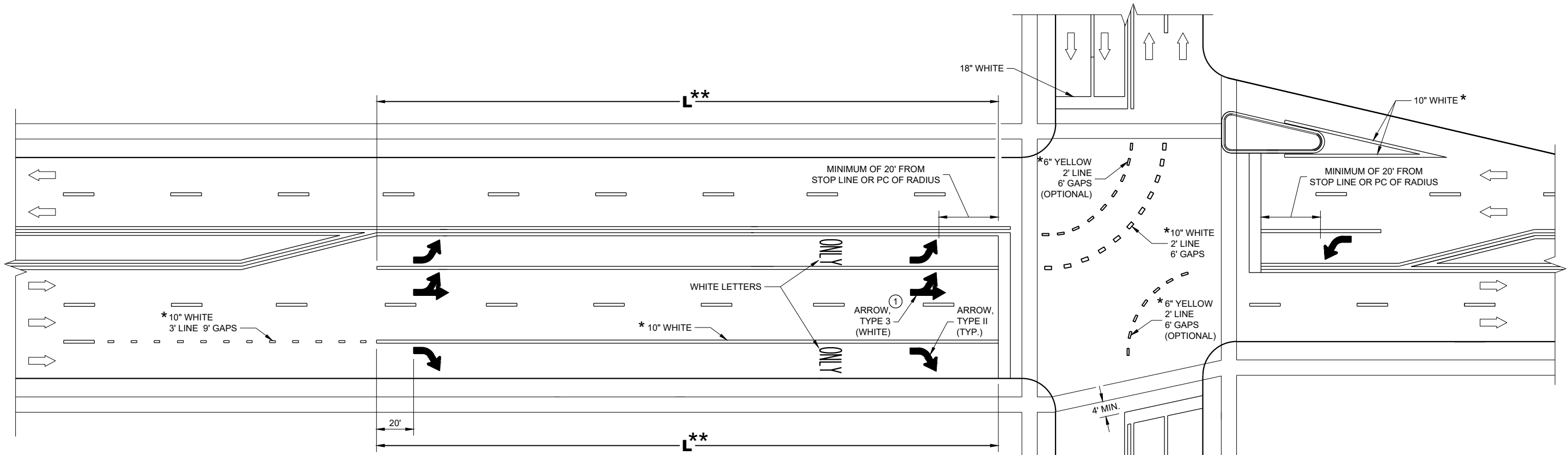


**TWO WAY LEFT TURN LANE**

**PAVEMENT MARKING  
(TURN LANES)**

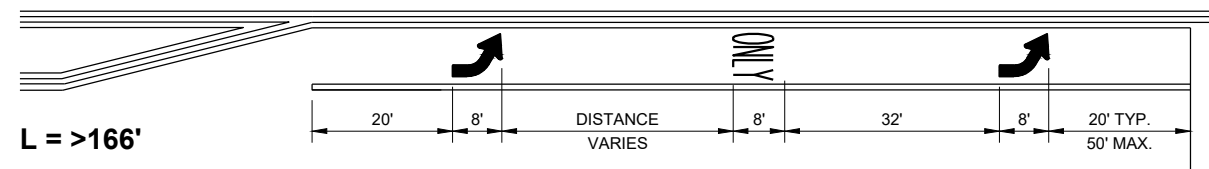
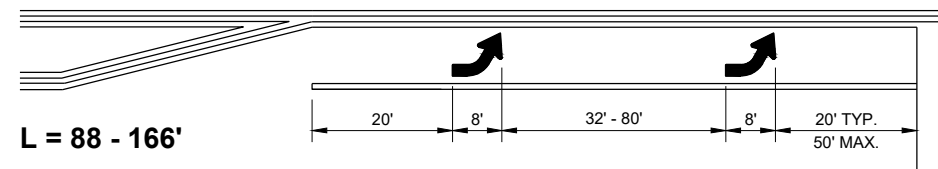
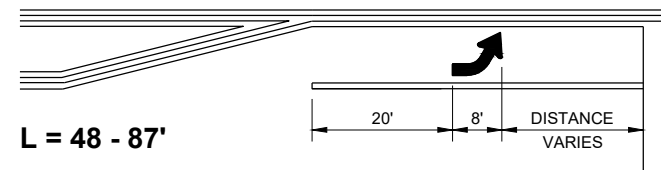
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION





**TURN LANE OPTIONS**

LENGTH OF TURN BAY ( **L** ) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



\*\* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

**GENERAL NOTES**

① QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

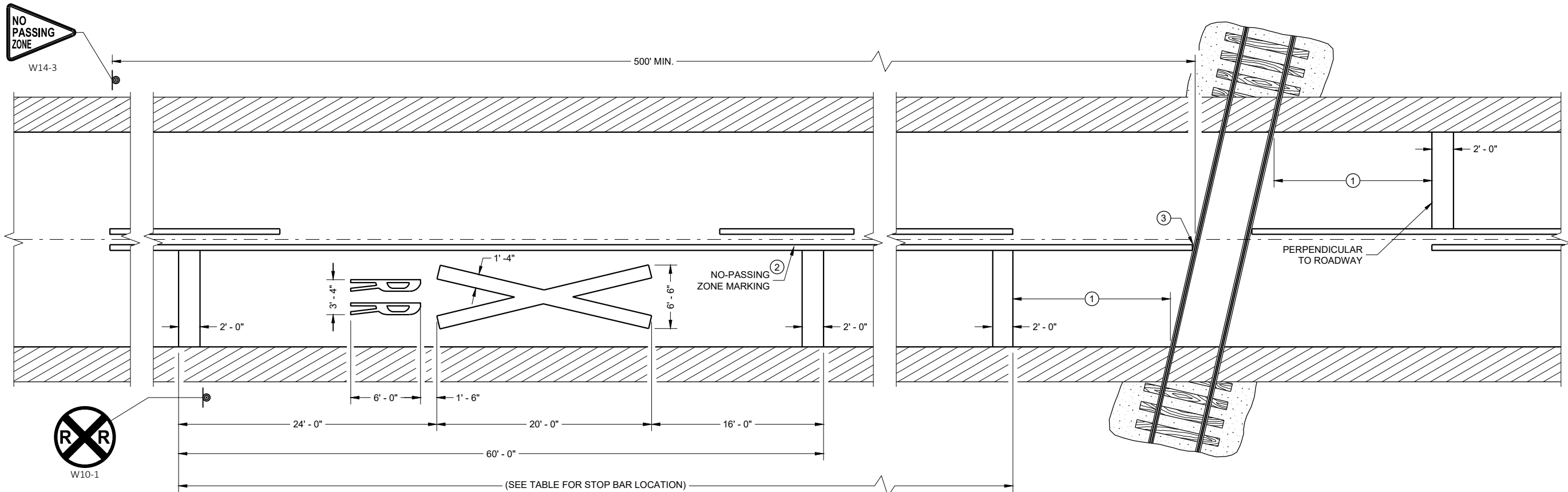
➡ DIRECTION OF TRAFFIC

**L** = LENGTH OF TURN BAY

\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

**PAVEMENT MARKING  
(TURN LANES)**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



**PAVEMENT MARKING**

**LEGEND**

⊙ SIGN ON PERMANENT SUPPORT

**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.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

TRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

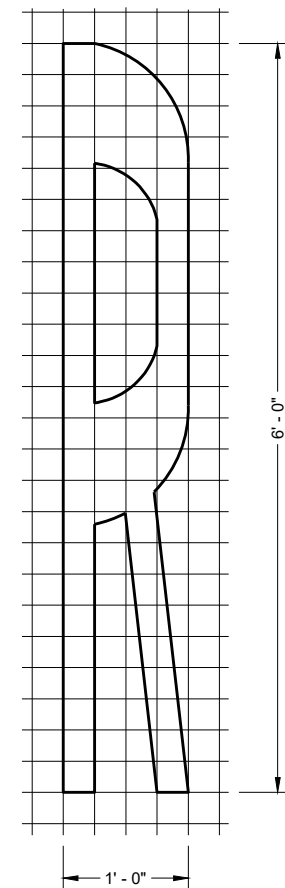
- ① PLACE STOP BAR APPROXIMATELY 8 FEET IN ADVANCE OF THE GATE (IF PRESENT), BUT NO CLOSER THAN 15 FEET IN ADVANCE OF THE NEAREST RAIL. FIELD-FIT STOP BAR TO MAXIMIZE VIEW OF APPROACHING TRAIN.
- ② 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.
- ③ FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

**DISTANCE TABLE**

TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

POSTED SPEED (M.P.H.)	DIMENSION RANGE (FEET)
25	150* - 250'
30	200* - 300'
35	250* - 450'
40	300* - 500'
45	400* - 650'
50	550* - 800'
55	750* - 1000'
60	1000* - 1250'
65	1000* - 1250'

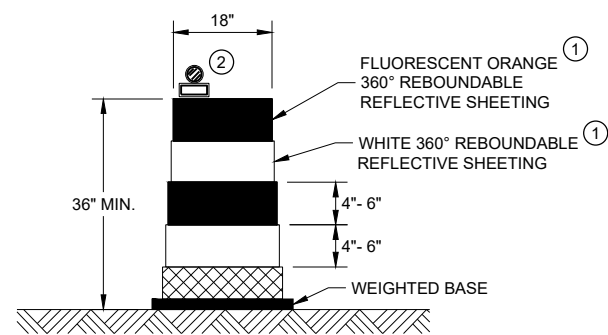
\* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSED PROXIMITY OF DRIVEWAYS, BRIDGES, SIDE ROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.



**SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS**

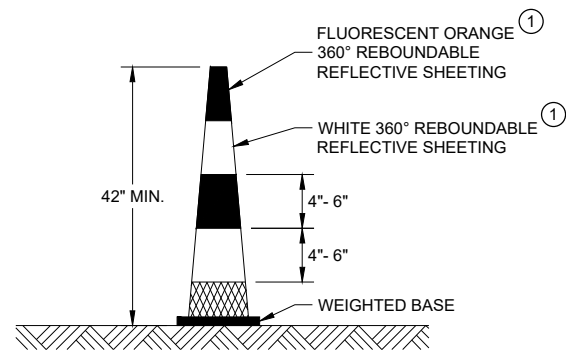
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2023 DATE /S/ Matthew R. Rauch  
STATE SIGNING AND MARKING ENGINEER  
FHWA



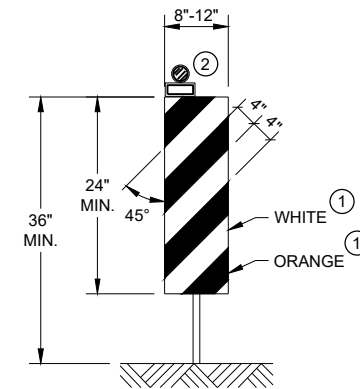
**DRUM**

BALLAST WIDTHS  
RANGE FROM 24"-36"



**42" CONE**

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

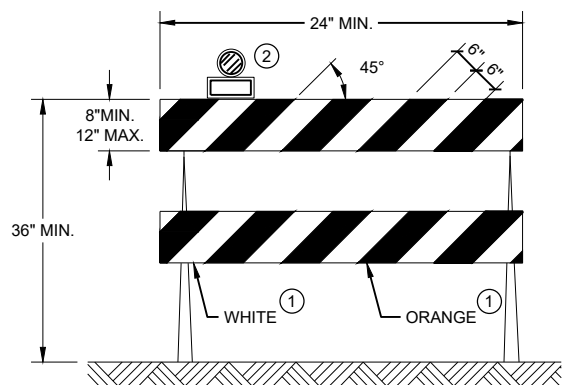


**VERTICAL PANEL**

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

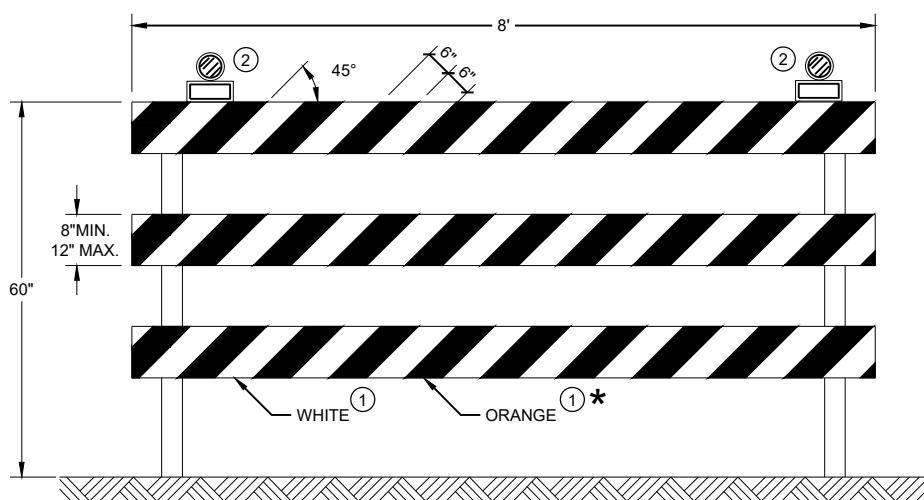
**GENERAL NOTES**

- 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.



**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

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

**LEGEND**

-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TEMPORARY PORTABLE RUMBLE STRIP ARRAY
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

**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 QUEUE.

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**

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.

- ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

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.

**TEMPORARY PORTABLE RUMBLE STRIPS**

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

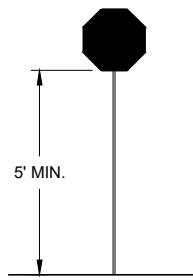
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

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.



**STOP/SLOW PADDLE ON SUPPORT STAFF**

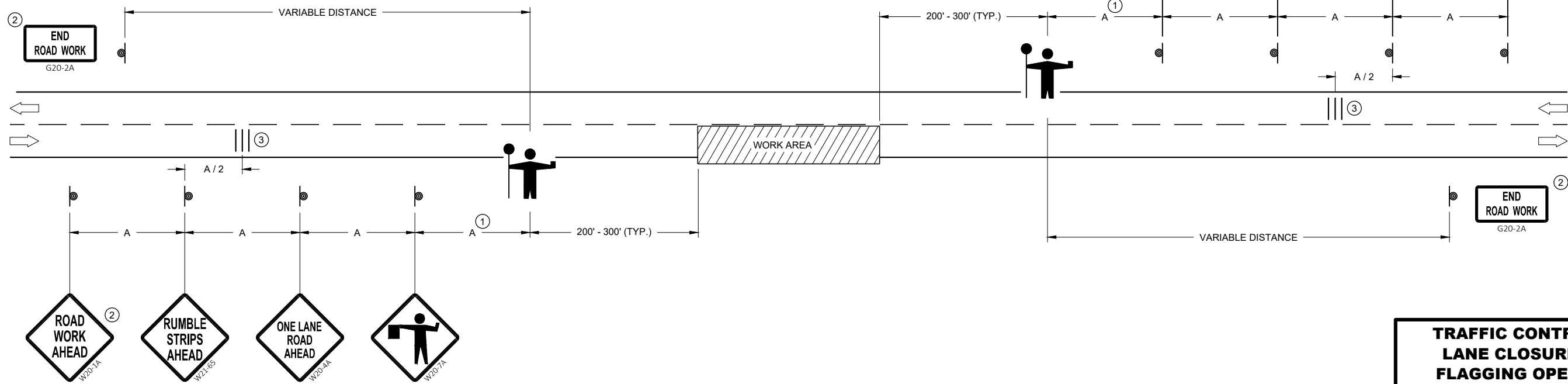
**SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE**

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



W03-4

USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



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SDD 15C12 - 09a

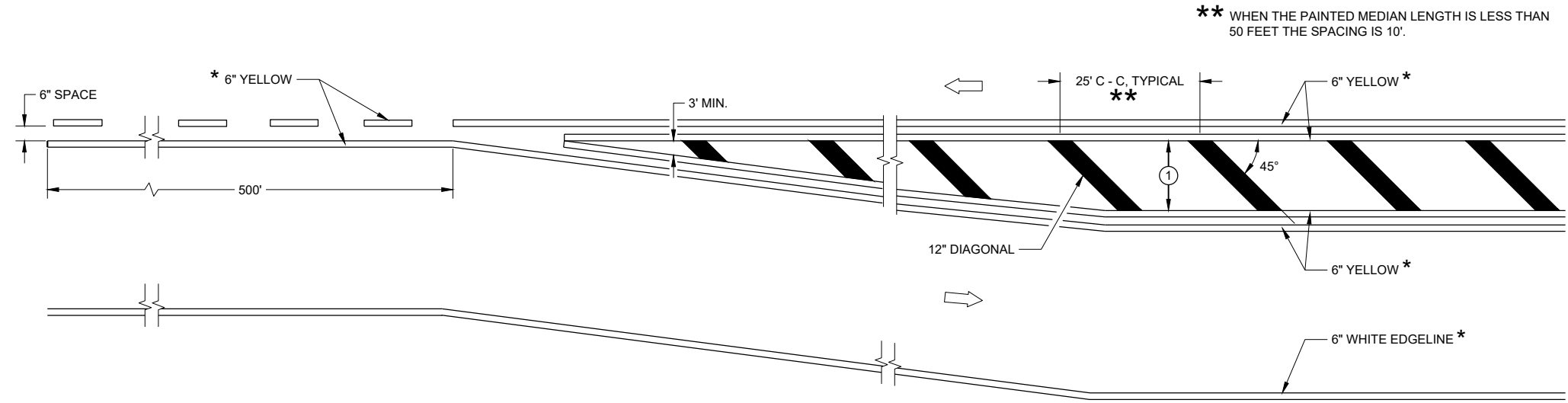
SDD 15C12 - 09a

**TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

FHWA



**MEDIAN ISLAND DETAIL**

**\*\*** WHEN THE PAINTED MEDIAN LENGTH IS LESS THAN 50 FEET THE SPACING IS 10'.

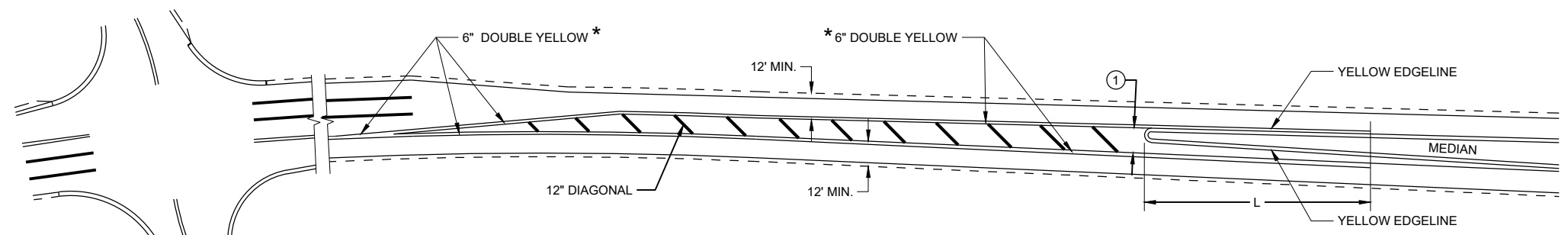
**GENERAL NOTES**

① DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

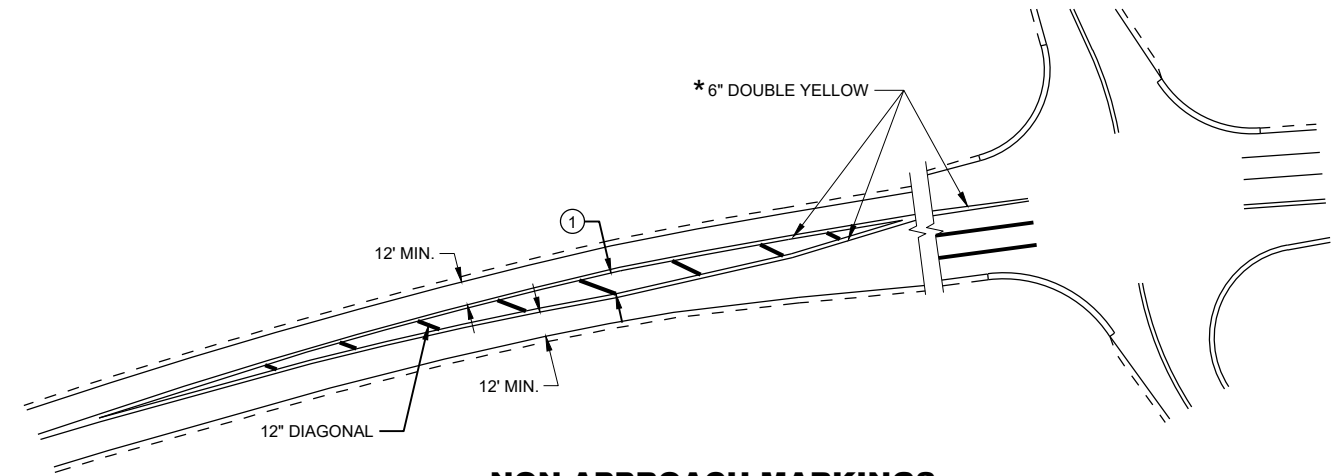
➔ DIRECTION OF TRAVEL

\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

SPEED LIMIT	L
<35 MPH	5'
35> MPH	50'



**APPROACH MARKINGS FOR OTHER MEDIAN TYPES**



**NON-APPROACH MARKINGS**

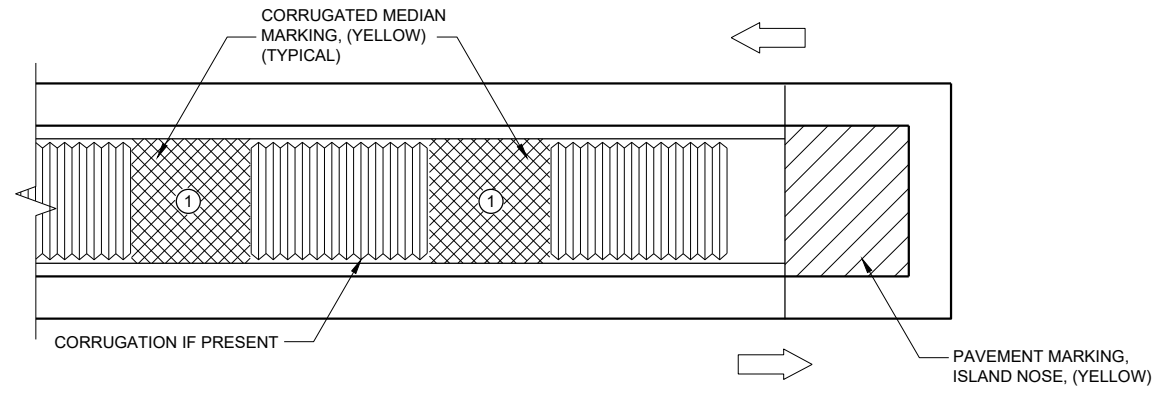
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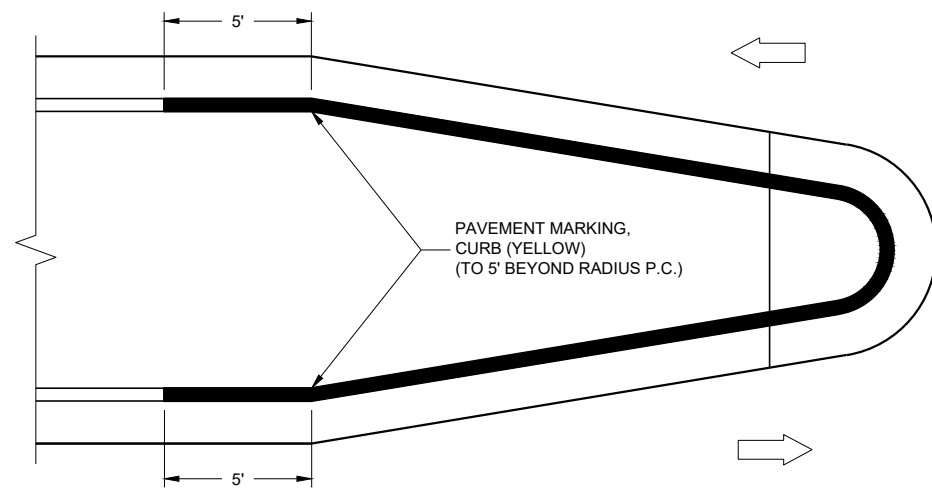
SDD 15C18-08a

SDD 15C18-08a

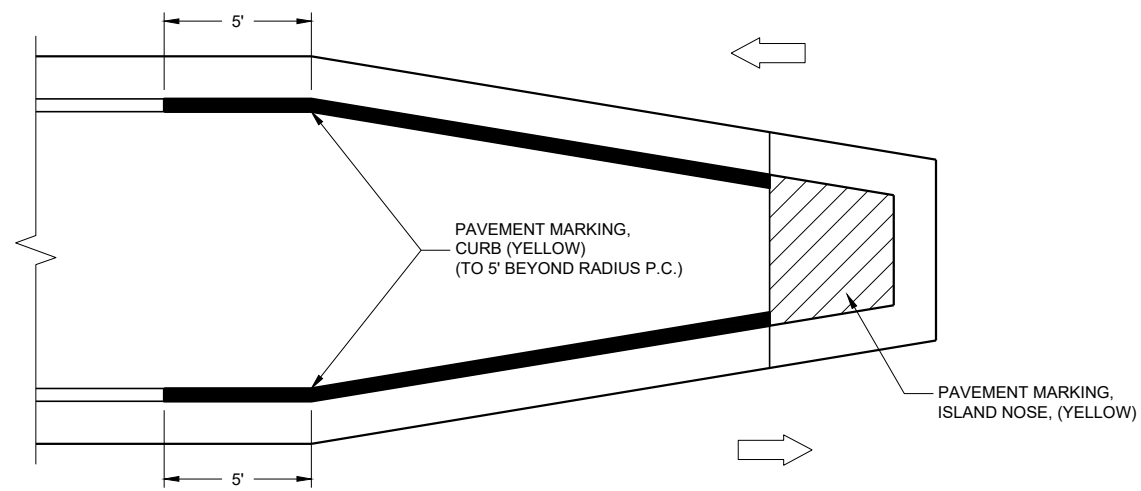
<b>MEDIAN ISLAND PAVEMENT MARKINGS</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2023 DATE	/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER
<small>FHWA</small>	



**MEDIAN ISLAND WITH SQUARE BLUNT NOSE**



**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.

-  ISLAND NOSE MARKING
-  CURB MARKING
-  CORRUGATED MEDIAN MARKING
-  DIRECTION OF TRAVEL

**PAVEMENT MARKINGS,  
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

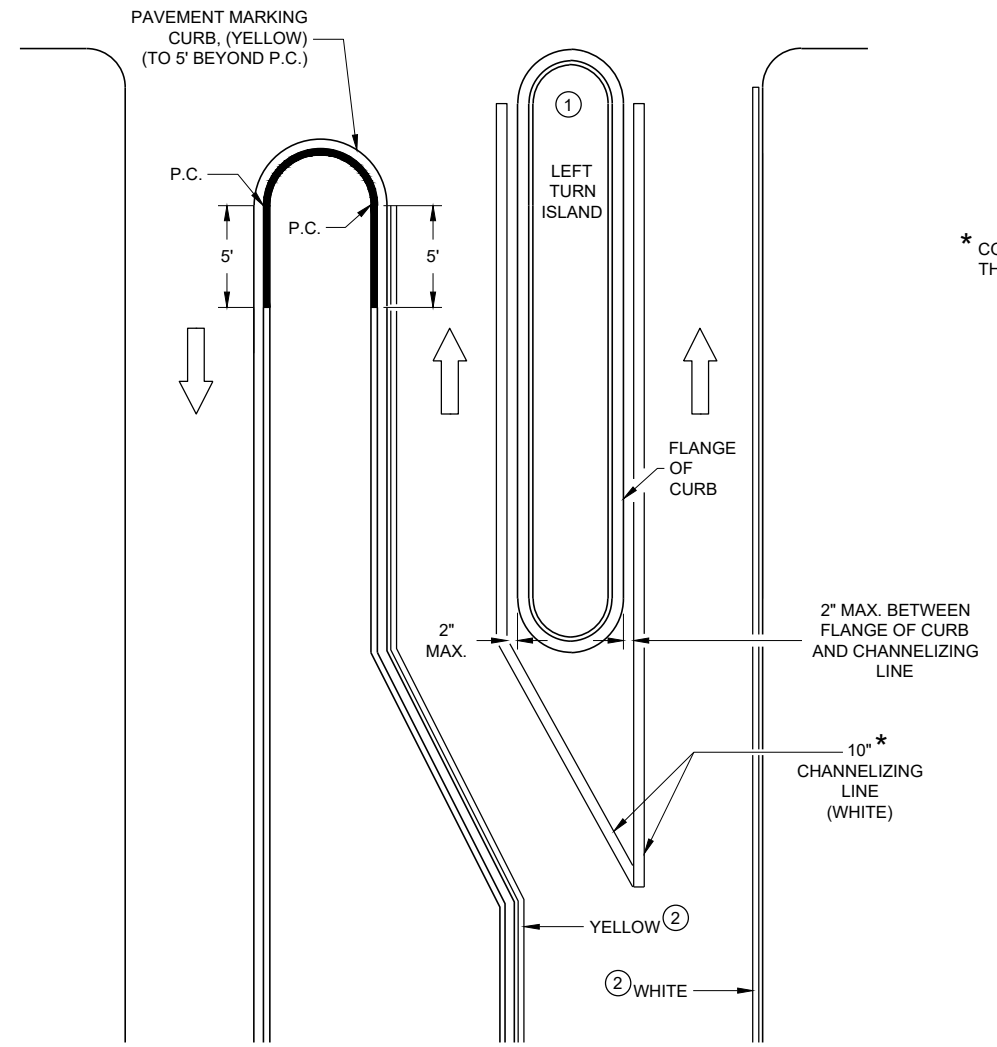
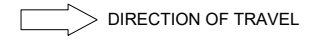
APPROVED  
May 2023 /S/ Jeannie Silver  
DATE STATE SIGNING AND MARKING  
ENGINEER

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED

**GENERAL NOTES**

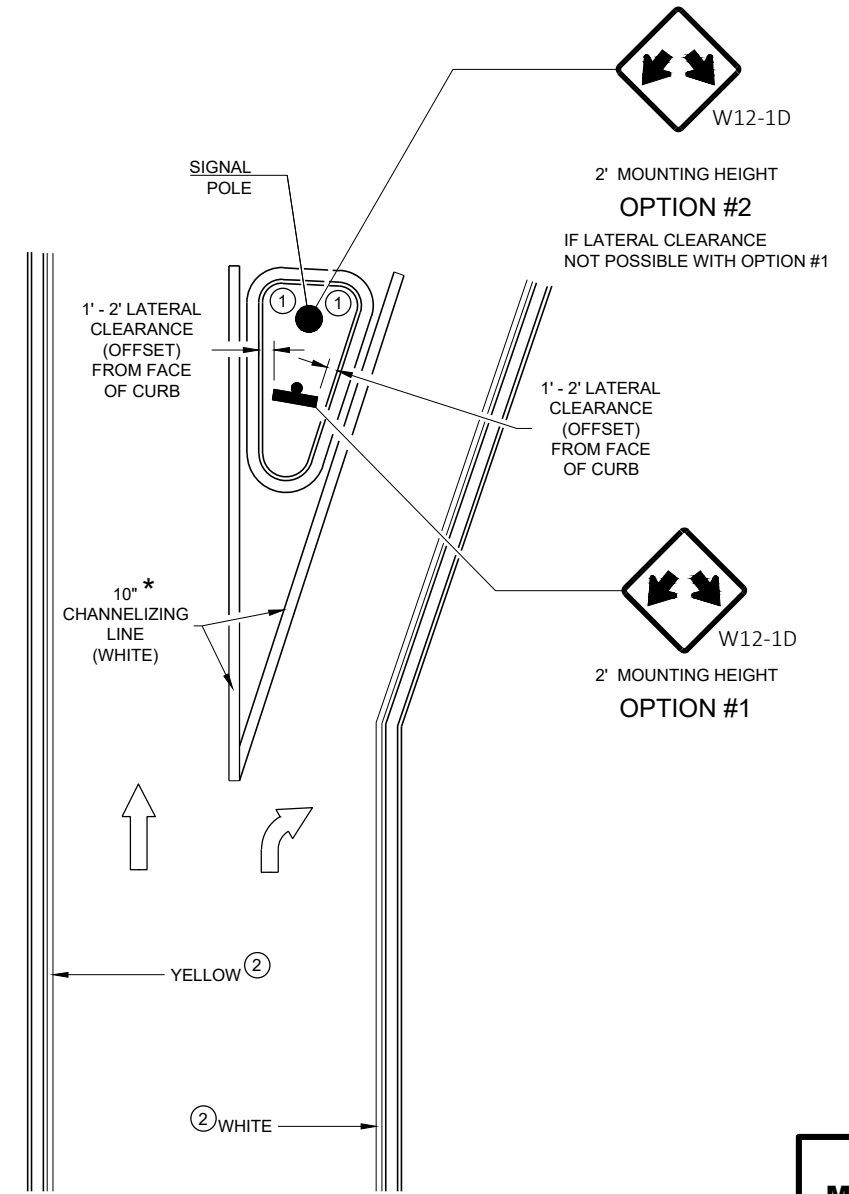
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.  
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

- ① MARK CURB NOSES YELLOW.
- ② MARK ACCORDING TO TABLE.



\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES





**LEFT TURN & MEDIAN ISLAND**



**RIGHT TURN ISLAND**

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2023 DATE	/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER
FHWA	

**LEGEND**

- V1 LEAD VEHICLE
- V2 MARKING VEHICLE
- V3 SHADOW VEHICLE
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW PANEL (CAUTION)

**GENERAL NOTES**

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

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, 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 AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

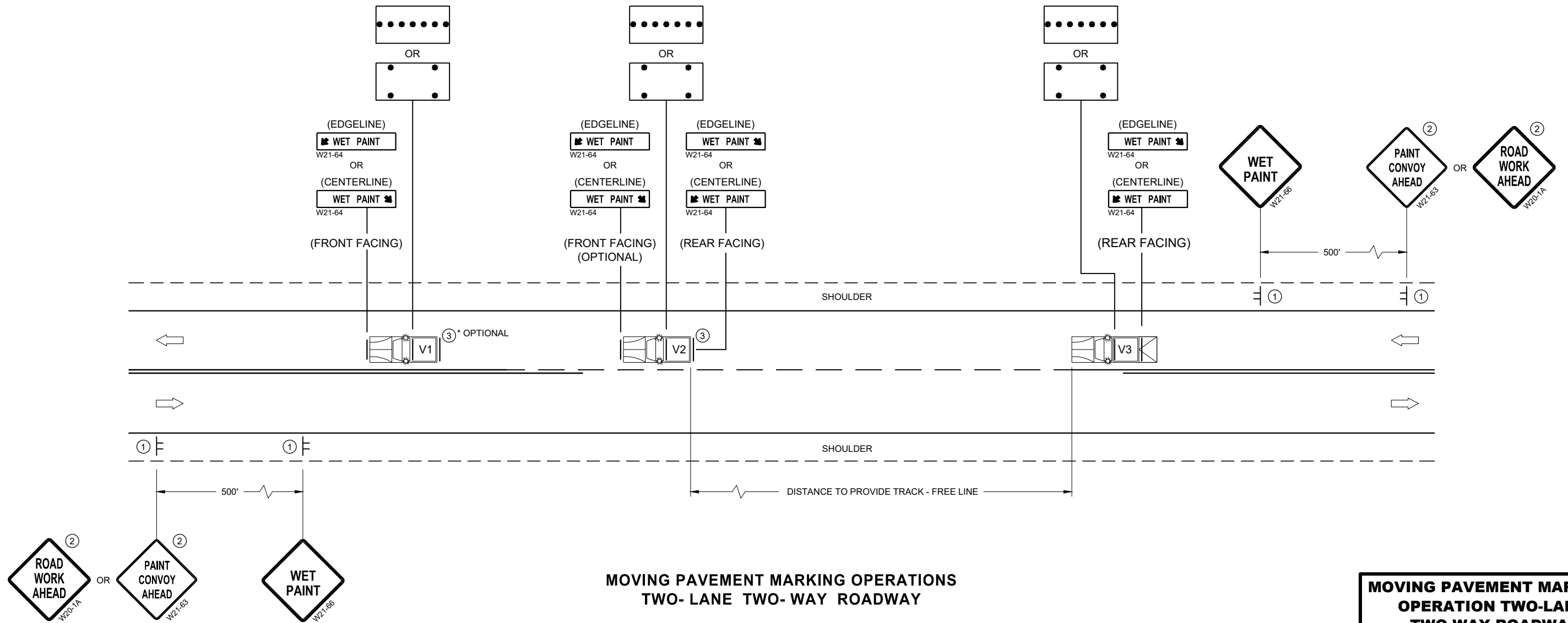
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING.

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.
- ③ V1 AND V2 CAN BE SWITCHED SO THAT THE MARKER IS THE LEAD VEHICLE.

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**MOVING PAVEMENT MARKING OPERATIONS  
TWO-LANE TWO-WAY ROADWAY**






SDD 15C19-08a

SDD 15C19-08a

<b>MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2023 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	



**LEGEND**

- V1 LEAD VEHICLE
- V2 MARKING VEHICLE
- V3 SHADOW VEHICLE
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW PANEL (MERGE)
-  FLASHING ARROW PANEL (CAUTION)

**GENERAL NOTES**

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

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, 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 AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

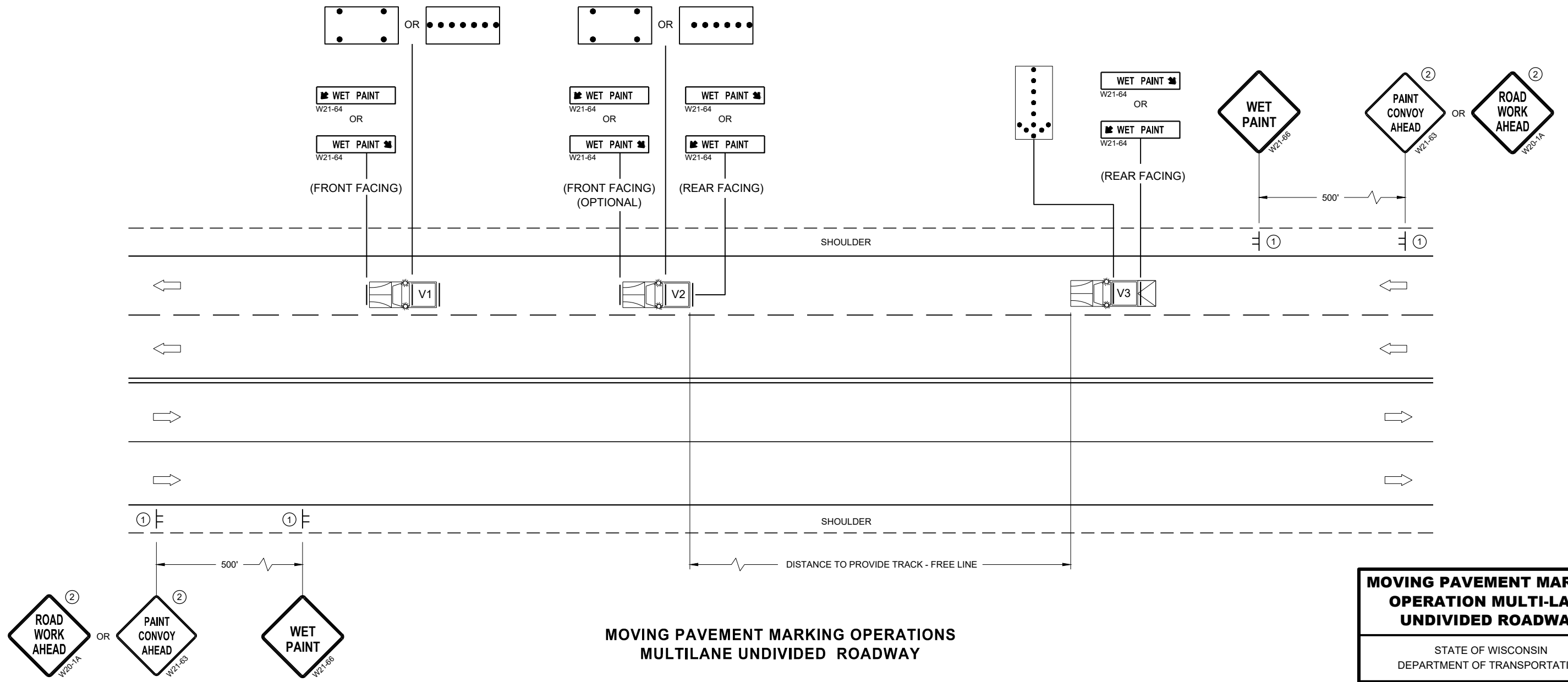
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLES AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL HAVE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS.

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

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




SDD 15C19-08b

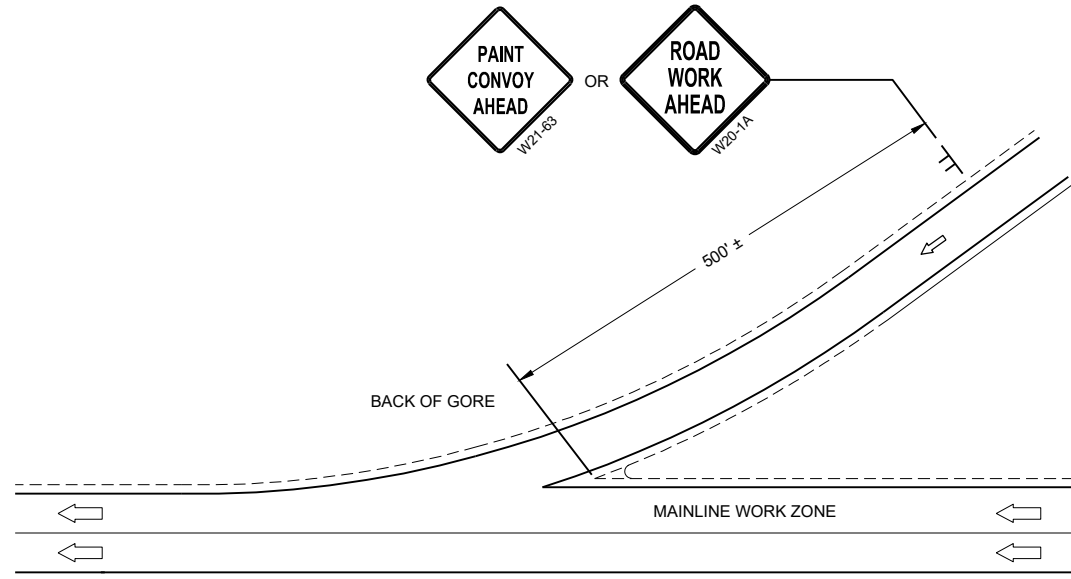
SDD 15C19-08b

**MOVING PAVEMENT MARKING OPERATIONS  
MULTILANE UNDIVIDED ROADWAY**

<b>MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2023 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

**LEGEND**

- V1 MARKING VEHICLE
- V2 SHADOW VEHICLE
- V3 TRAIL VEHICLE
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW PANEL (MERGE)
-  FLASHING ARROW PANEL (CAUTION)



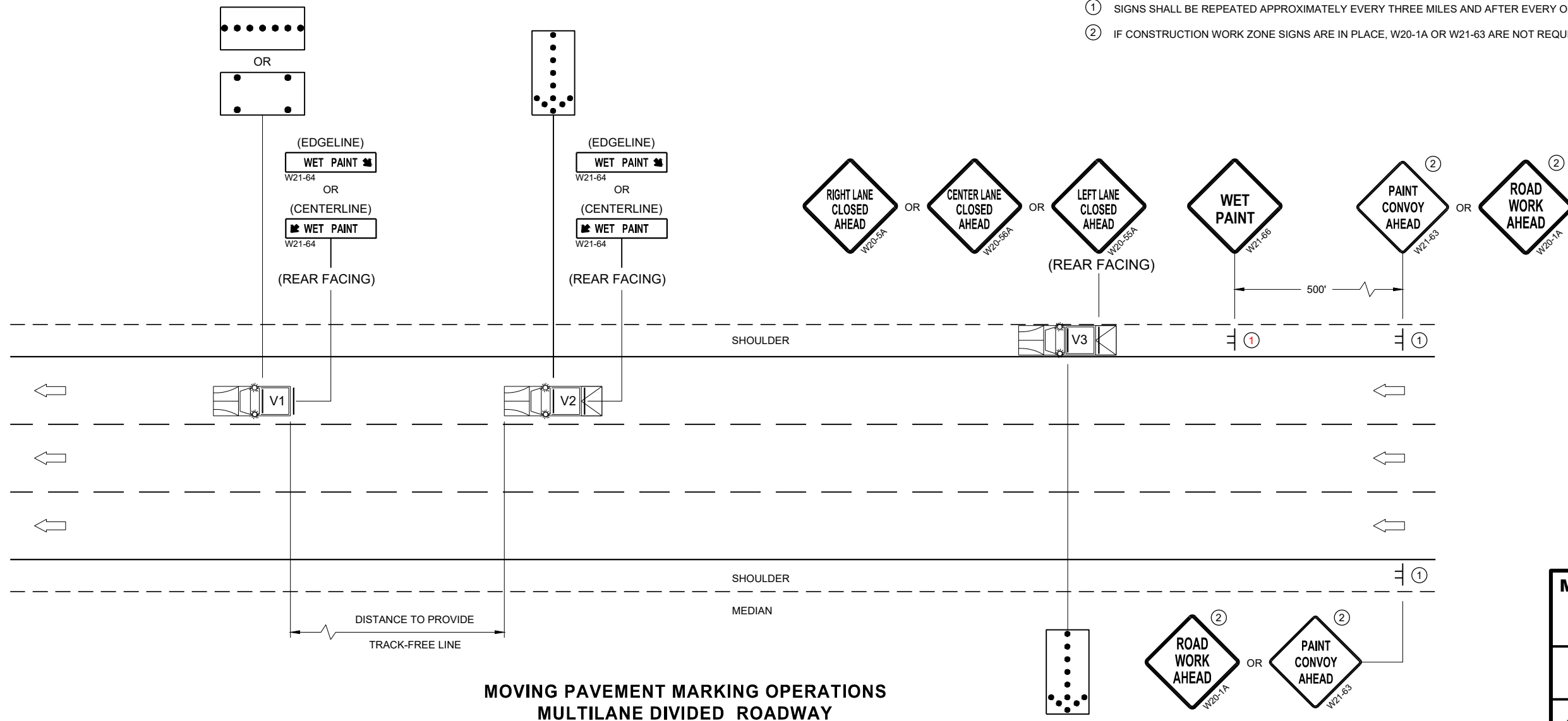
**GENERAL NOTES**

- ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.
- ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.
- DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, 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 AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.
- WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.
- USE AN ATTENUATOR ON THE REAR MOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.
- IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.
- WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC
- CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- CONES SHALL BE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

6

6

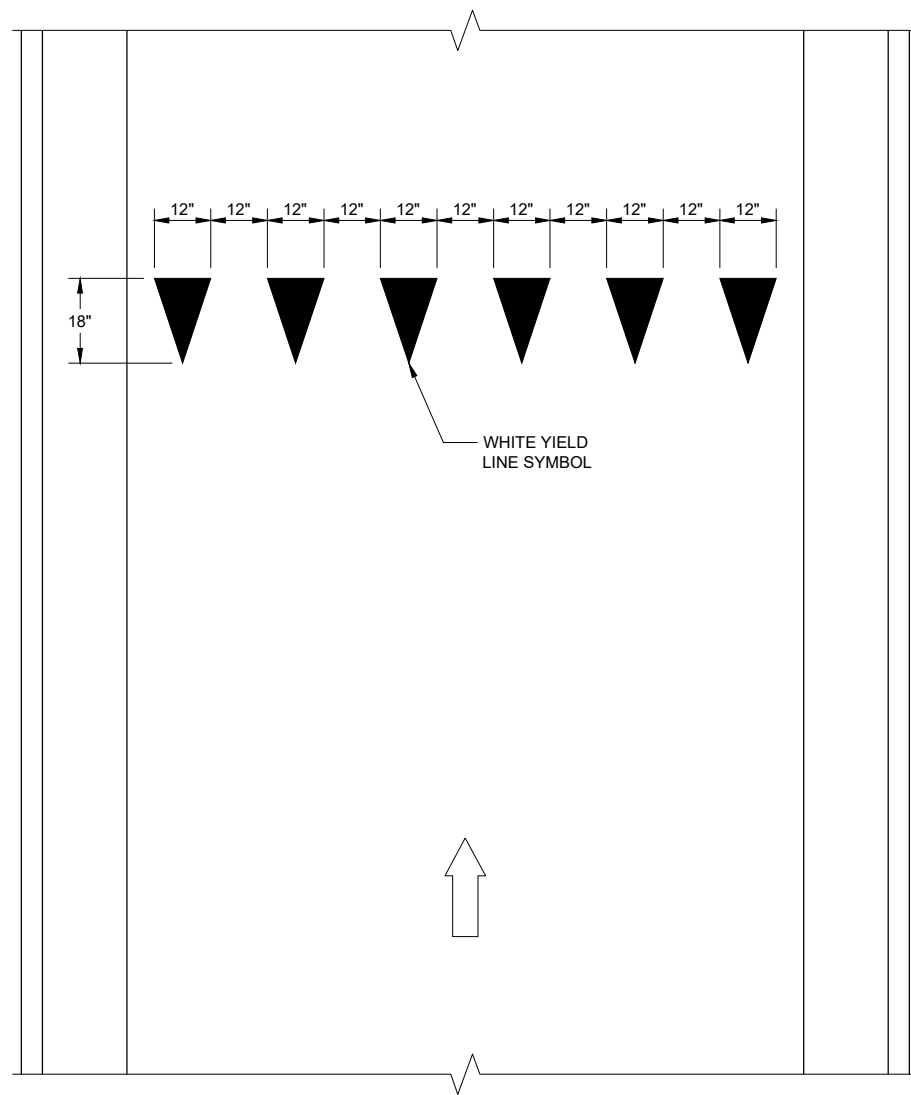


SDD 15C19-08c



SDD 15C19-08c

**MOVING PAVEMENT MARKING OPERATIONS  
MULTILANE DIVIDED ROADWAY**

<b>MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2023 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	



**LEGEND**

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAVEL

**YIELD LINE**

6

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**SDD 15C20 - 02**

**SDD 15C20 - 02**

<b>YIELD MARKINGS</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-81-2016 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MARKING ENGINEER
<small>FHWA</small>	

### GENERAL NOTES

SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

① USED ONLY WHEN APPROVED BY REGION TRAFFIC ENGINEER.

\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

\*\* SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT PLACEMENT.

\*\*\* IF POSTED SPEED IS 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN).

### LEGEND

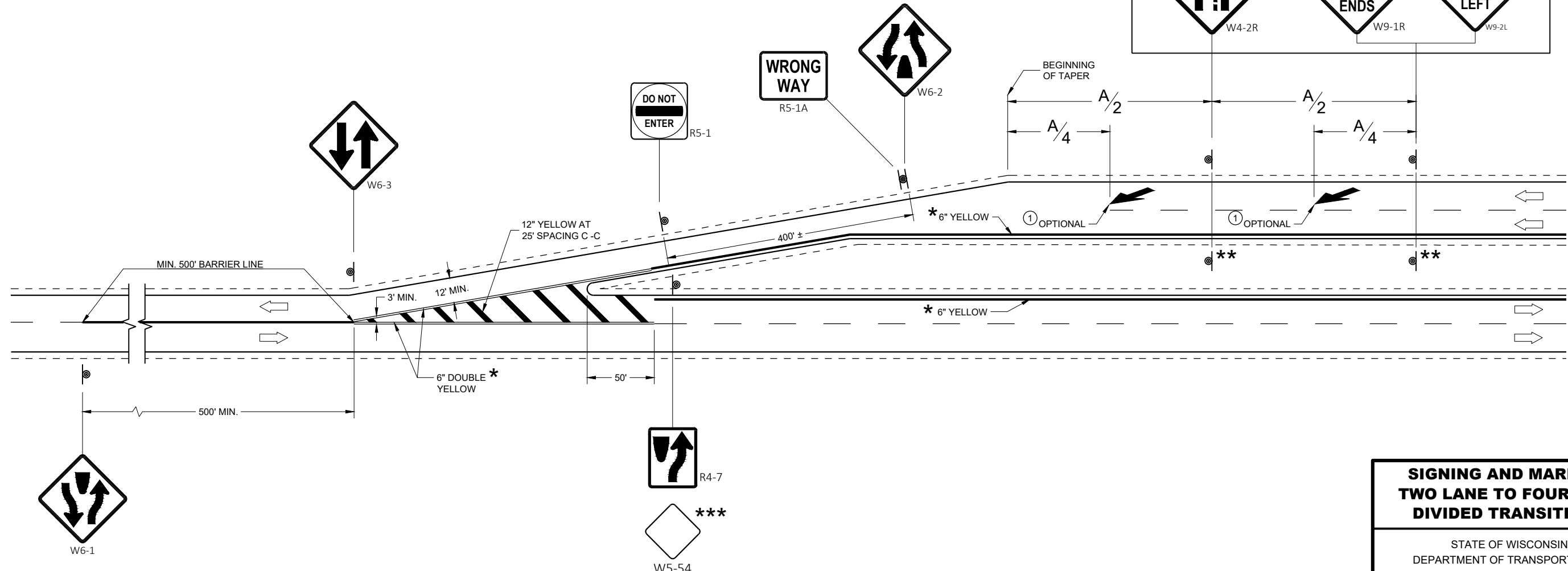
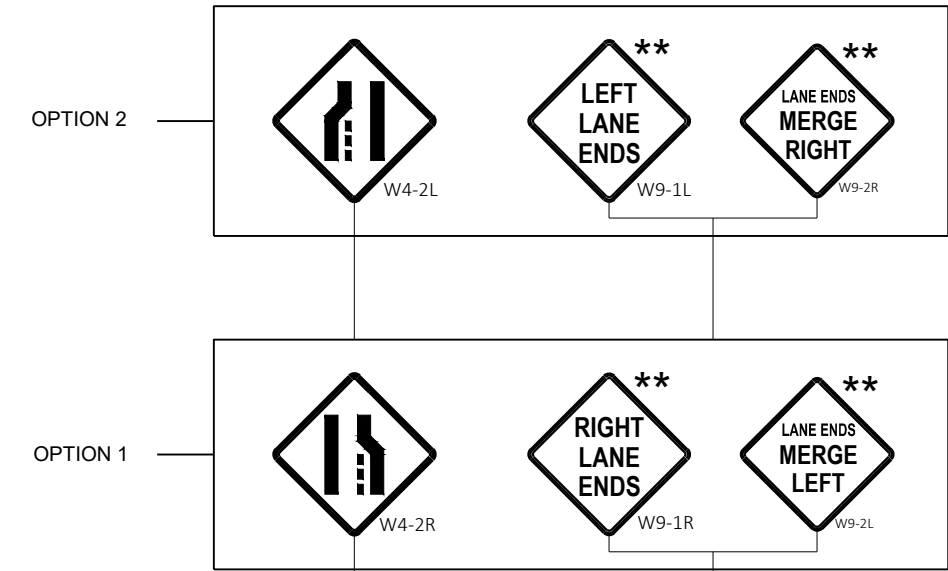
A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

⊙ SIGN MOUNTED ON PERMANENT SUPPORT

➡ DIRECTION OF TRAFFIC

#### DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	325'
30	460'
35	565'
40	670'
45	775'
50	885'
55	990'
65	1200'
70	1250'



**SIGNING AND MARKING  
TWO LANE TO FOUR LANE  
DIVIDED TRANSITIONS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2023 /S/ Matthew Rauch  
DATE STATE SIGNING AND MARKING  
ENGINEER

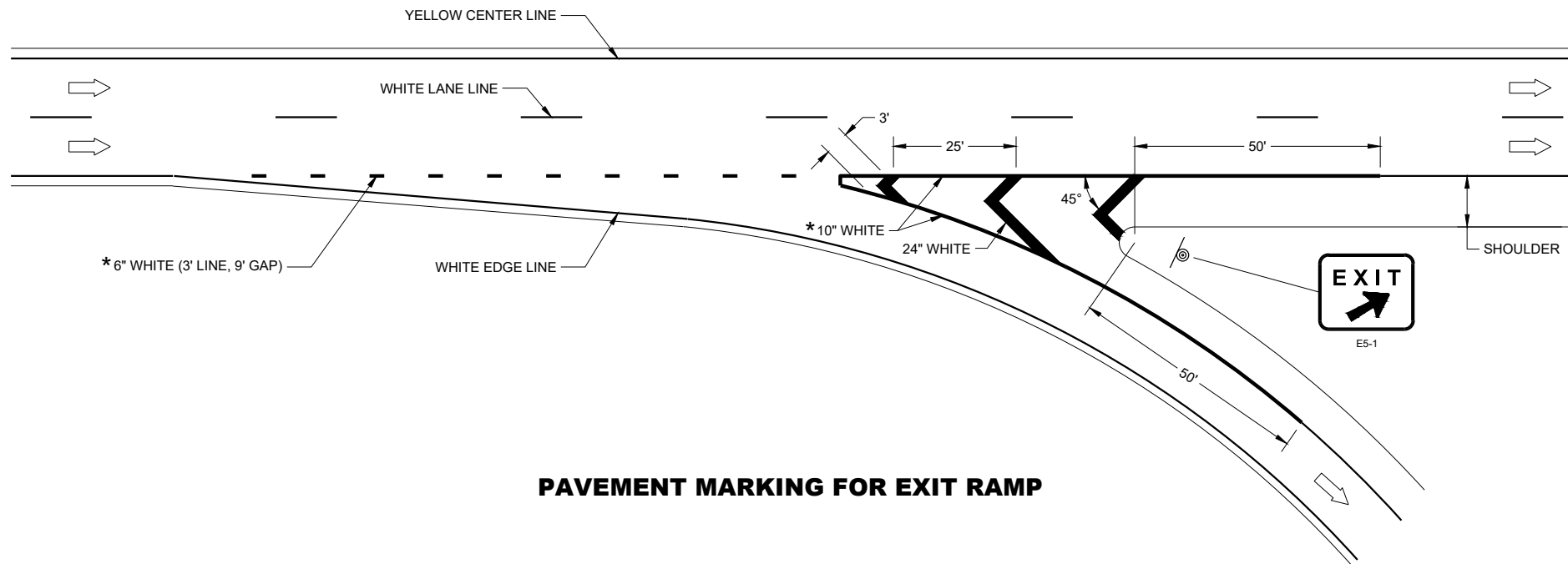
FHWA

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SDD 15C21-11

SDD 15C21-11



**PAVEMENT MARKING FOR EXIT RAMP**

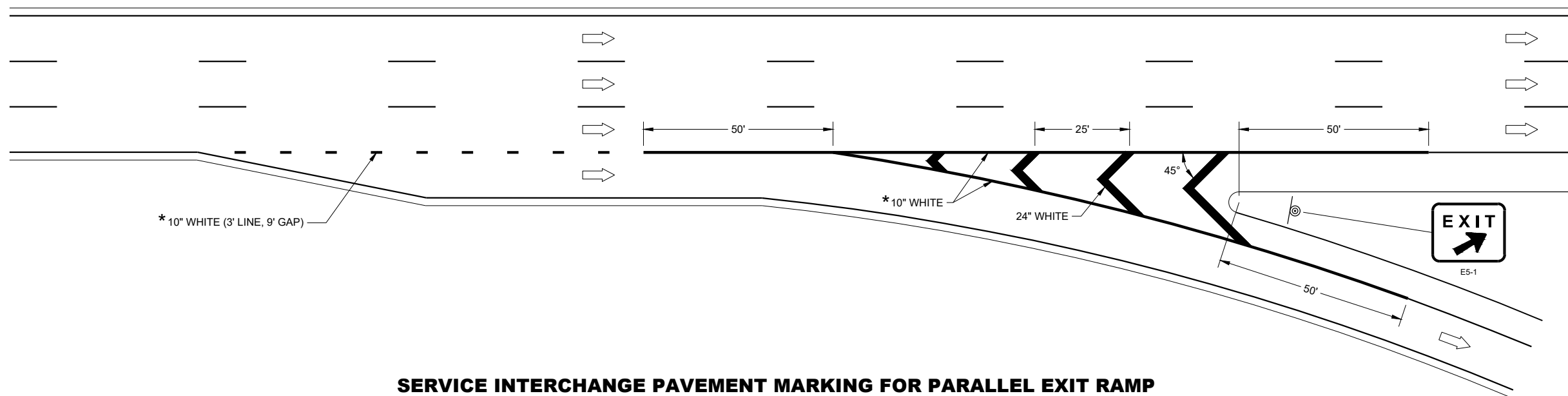
**GENERAL NOTES**

PLACE GROOVE 3 INCHES LEFT OF JOINT.

**LEGEND**

- ⊙ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAVEL

\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



**SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT RAMP**

**PAVEMENT MARKING,  
EXIT RAMP AND  
PARALLEL EXIT RAMP**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

6

6



SDD 15C31-05a

SDD 15C31-05a

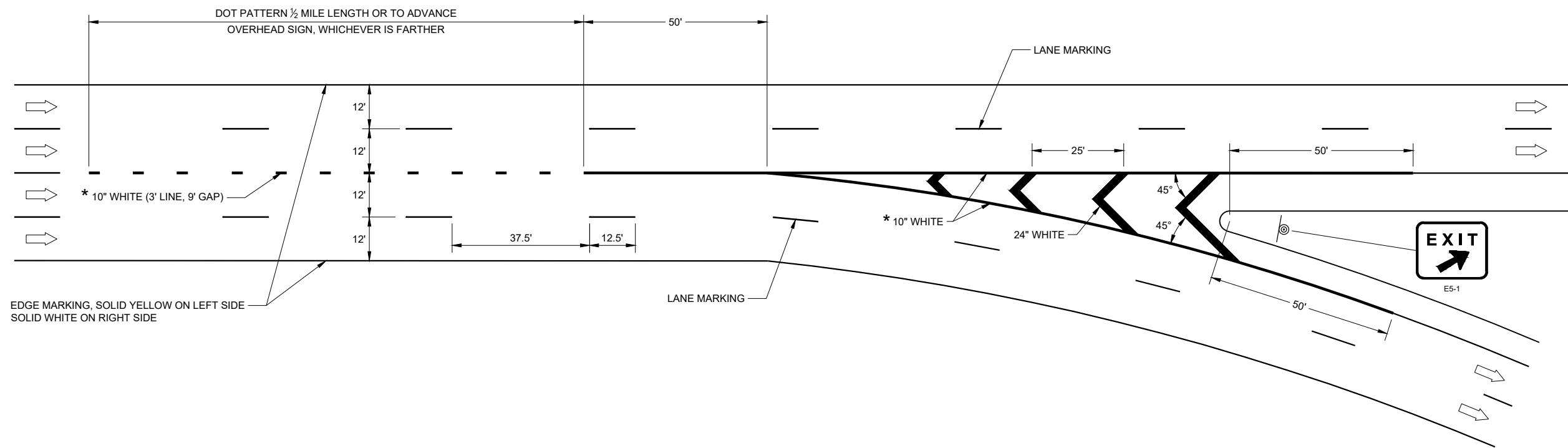
**GENERAL NOTES**

PLACE GROOVE 3 INCHES LEFT OF JOINT.

**LEGEND**

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAVEL

\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



6

6

SDD 15C31-05b

SDD 15C31-05b

<b>PAVEMENT MARKING, MAJOR SPLIT FREEWAY TO FREEWAY</b>
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

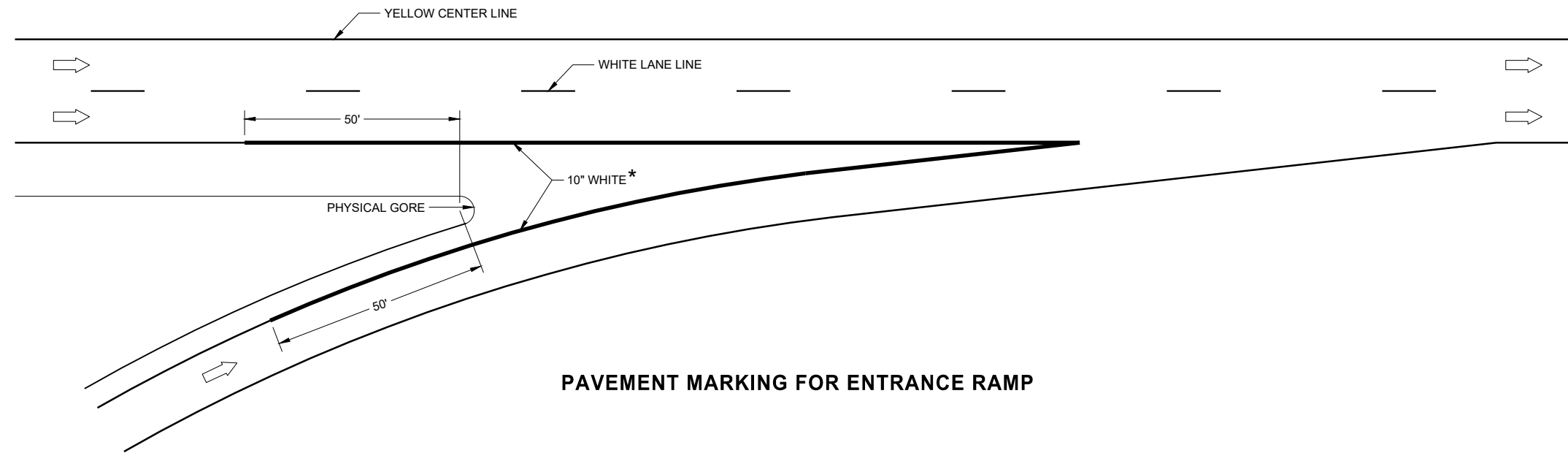
PLACE GROOVE 3 INCHES LEFT OF JOINT.

① ½ LENGTH OF FULL WIDTH ACCELERATION LANE.

**LEGEND**

➡ DIRECTION OF TRAVEL

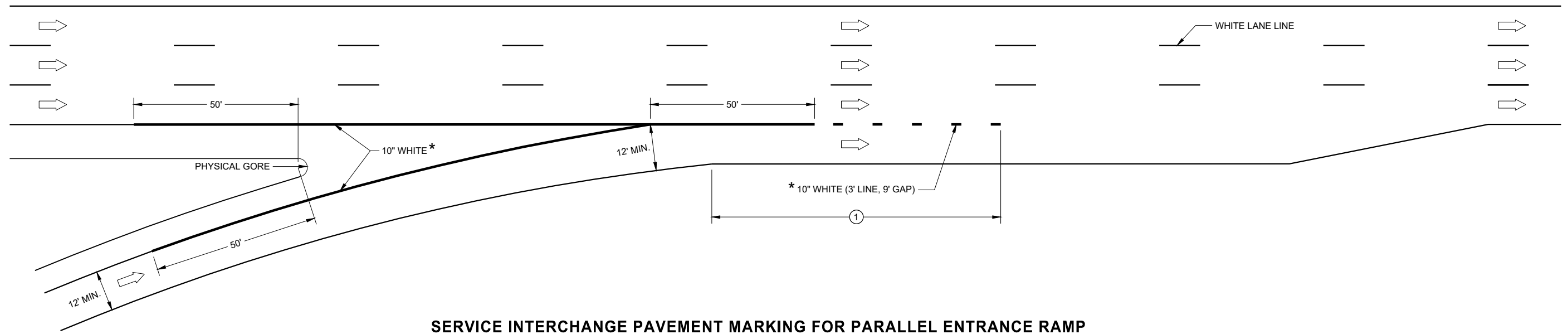
\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



**PAVEMENT MARKING FOR ENTRANCE RAMP**

6

6



**SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE RAMP**

SDD 15C31-05c

SDD 15C31-05c

**PAVEMENT MARKING,  
ENTRANCE RAMP AND  
PARALLEL ENTRANCE RAMP**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

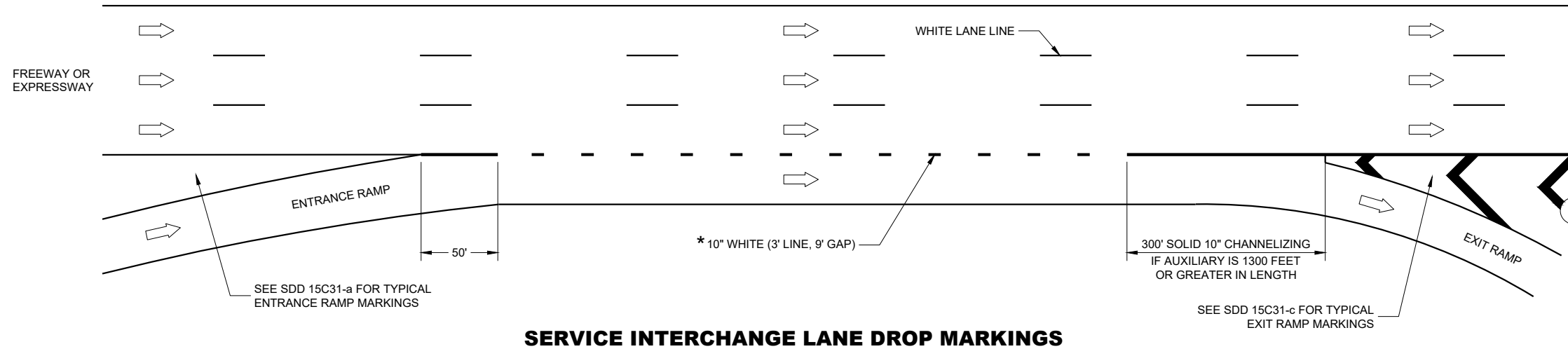
**LEGEND**

➡ DIRECTION OF TRAVEL

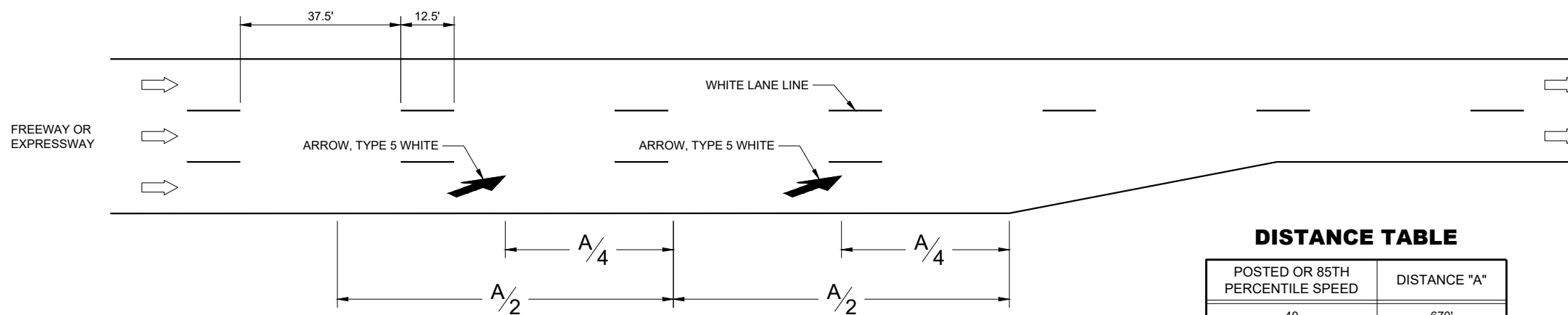
\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

**GENERAL NOTES**

PLACE GROOVE 3 INCHES LEFT OF JOINT.



**SERVICE INTERCHANGE LANE DROP MARKINGS**



**LANE REDUCTION MARKINGS**

**DISTANCE TABLE**

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
40	670'
45	775'
50	885'
55	990'
60	1100'
65	1200'
70	1250'

6

6

SDD 15C31-05d

SDD 15C31-05d

**PAVEMENT MARKING,  
LANE DROP AND  
LANE REDUCTION**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023  
DATE

/s/ Matthew Rauch  
STATE MARKING AND SIGNING  
ENGINEER

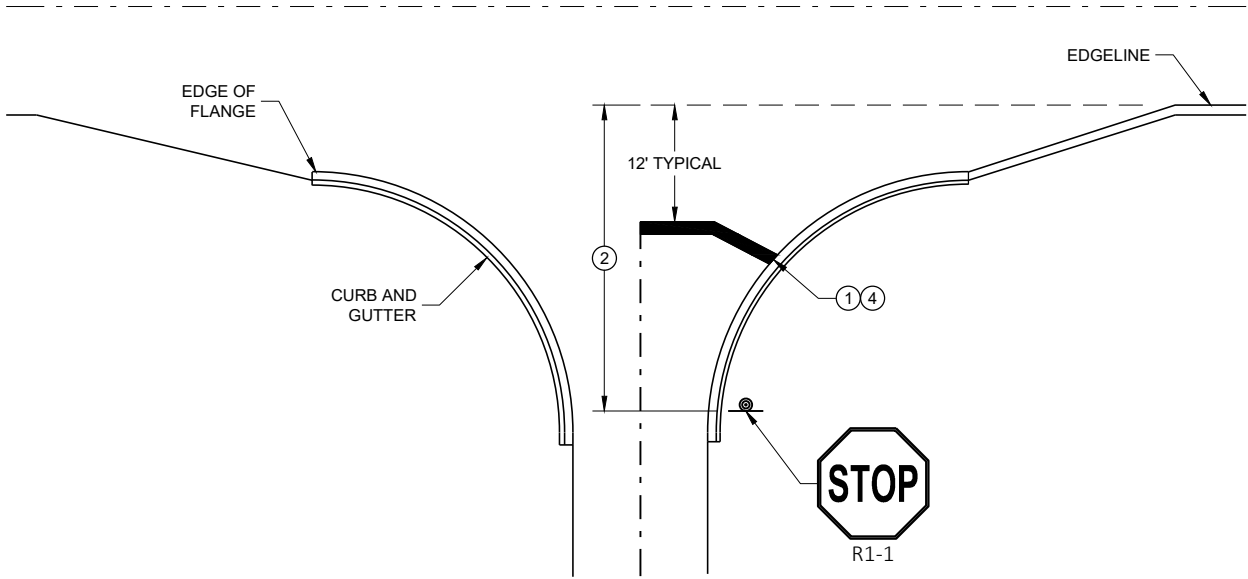
FHWA



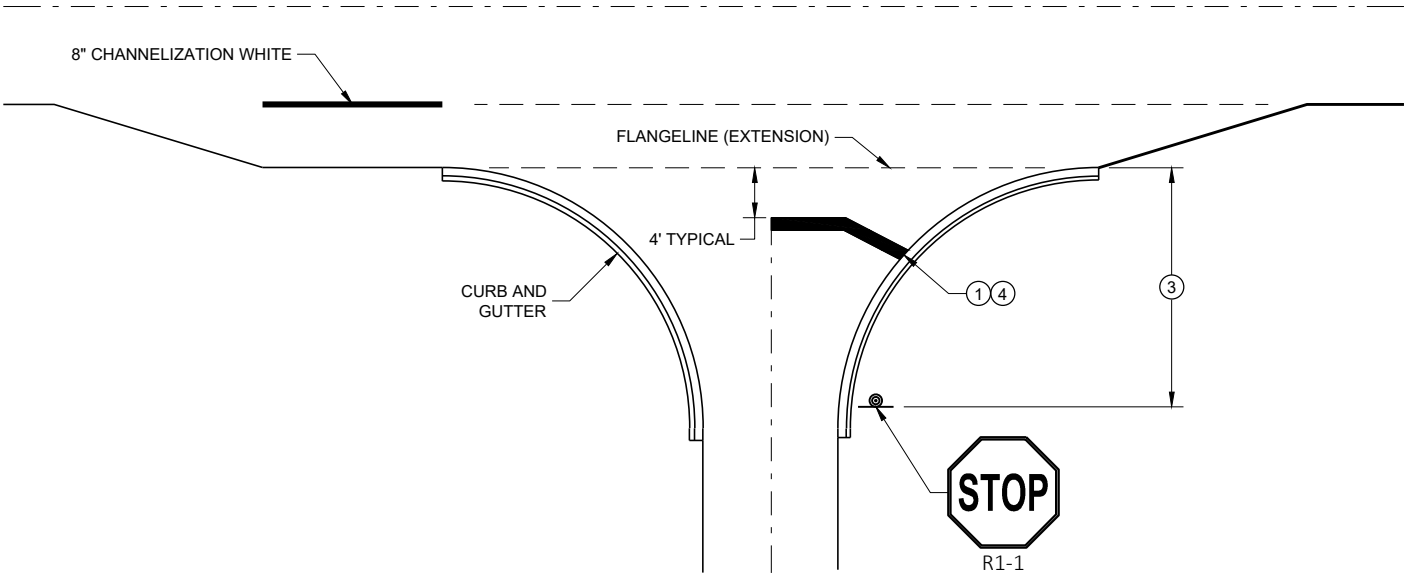
**GENERAL NOTES**

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

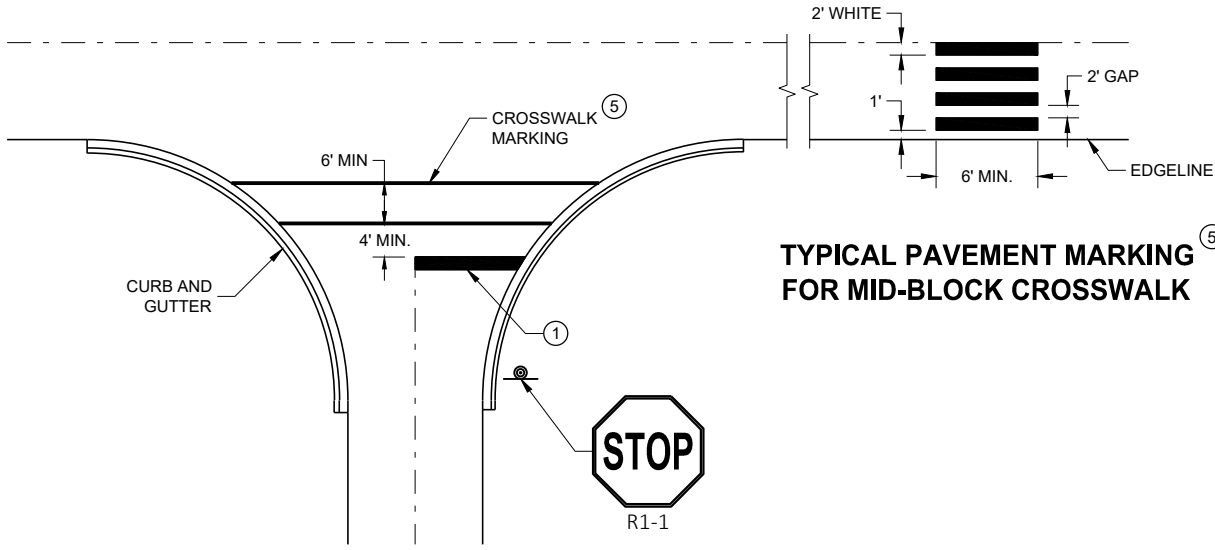
- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
- ③ NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
- ④ MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
- ⑤ LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



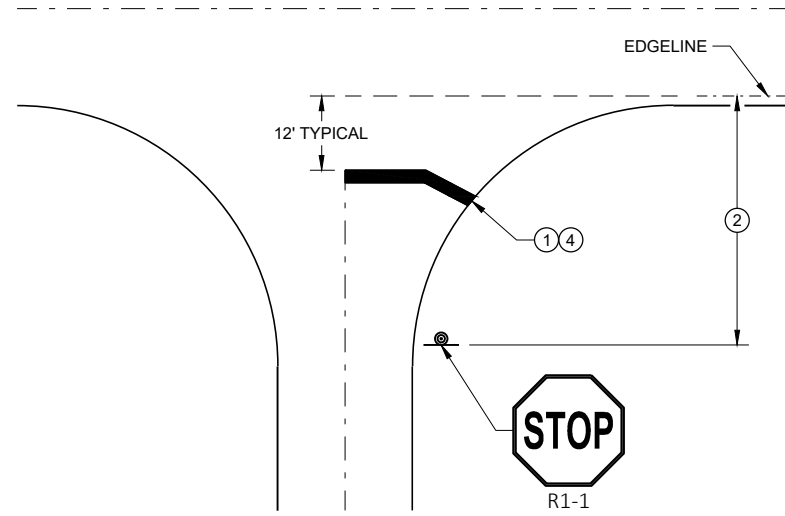
**TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER**



**TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE**



**TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING**



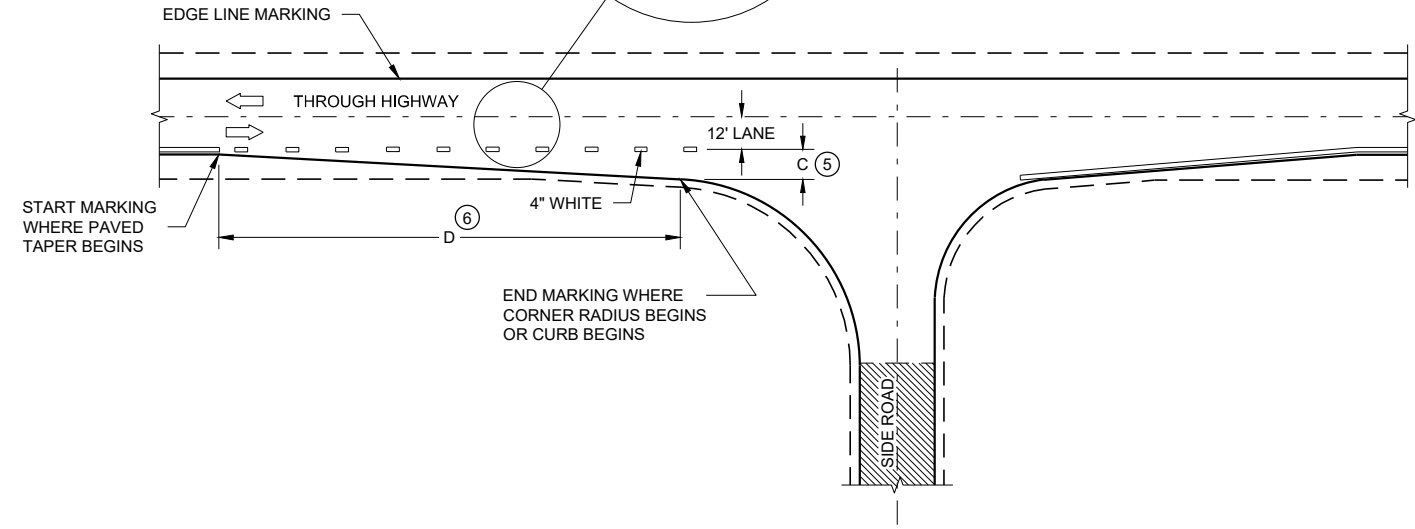
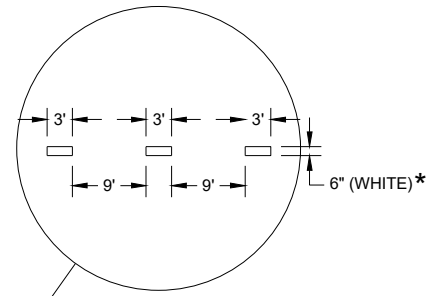
**TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER**

**STOP LINE AND CROSSWALK PAVEMENT MARKING**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

FHWA



**MINOR INTERSECTION**

\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

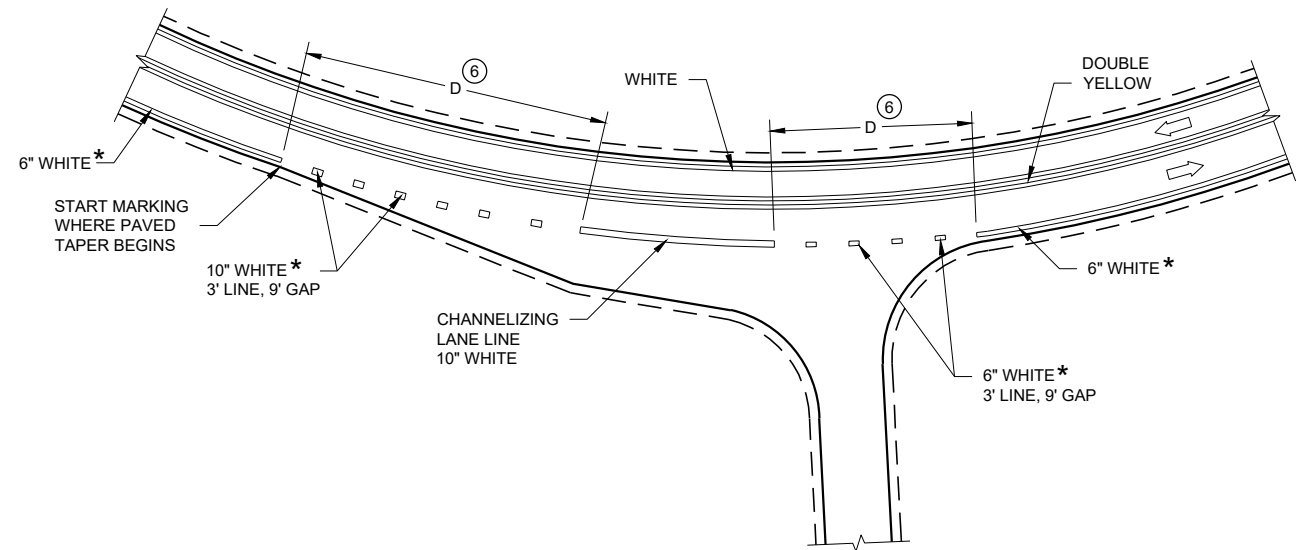
**GENERAL NOTES**

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

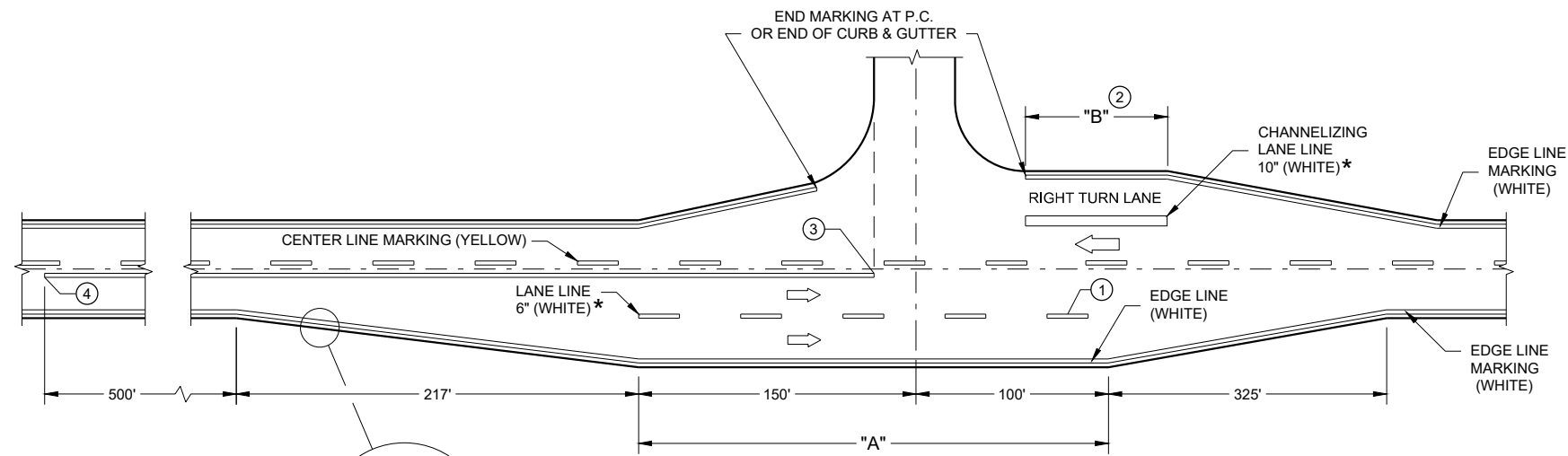
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
- ⑤ WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
- ⑥ WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

**LEGEND**

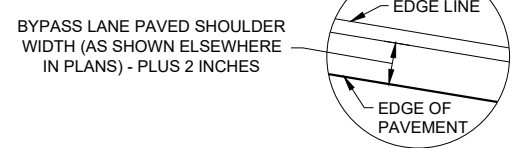
➔ DIRECTION OF TRAVEL



**INTERSECTION ON OUTSIDE OF CURVE**



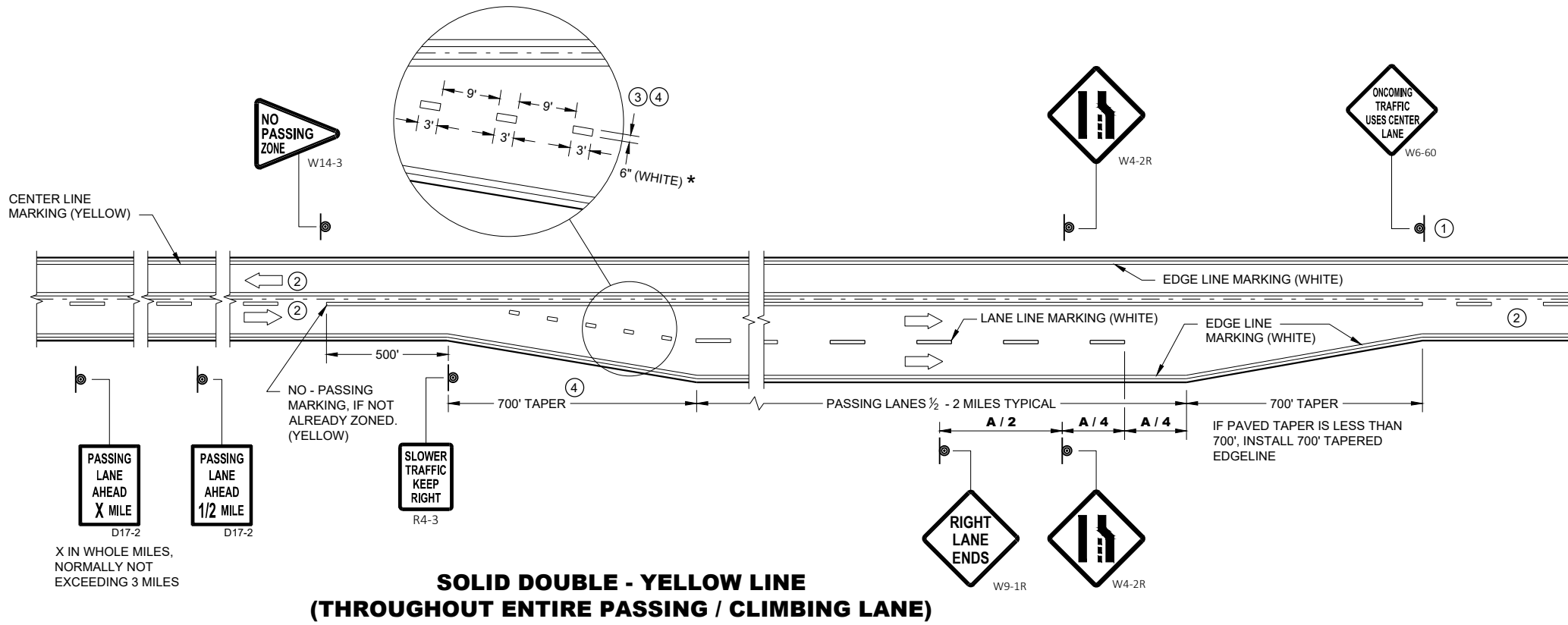
**MAJOR INTERSECTIONS  
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)**



BYPASS LANE PAVED SHOULDER WIDTH (AS SHOWN ELSEWHERE IN PLANS) - PLUS 2 INCHES

**PAVEMENT MARKING  
(INTERSECTIONS)**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



**SOLID DOUBLE - YELLOW LINE  
(THROUGHOUT ENTIRE PASSING / CLIMBING LANE)**

X IN WHOLE MILES,  
NORMALLY NOT  
EXCEEDING 3 MILES

**GENERAL NOTES**

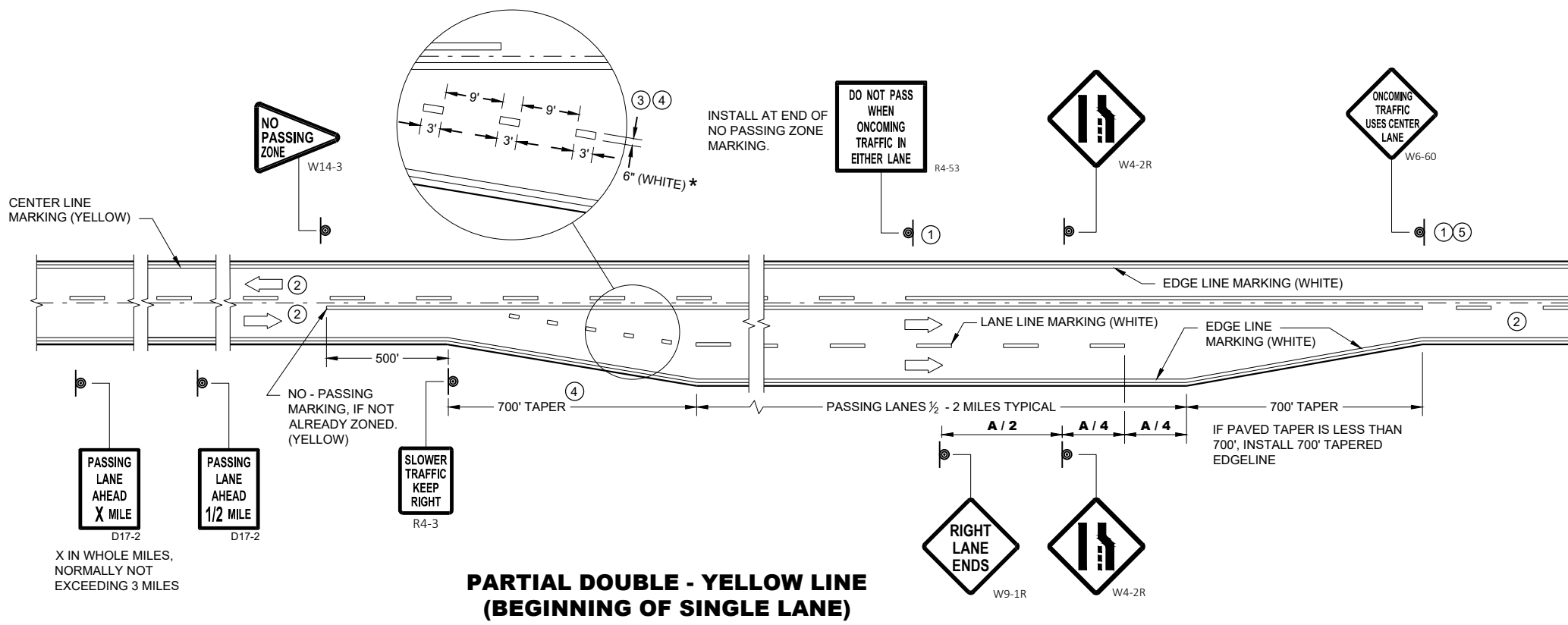
- ① SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- ② THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- ③ THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ④ WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
- ⑤ REPEAT EVERY 1 MILE UP UNTIL R4-53.

ARROW SYMBOL ( → ) SHOWS DIRECTION OF TRAVEL

**DISTANCE TABLE**

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990

\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

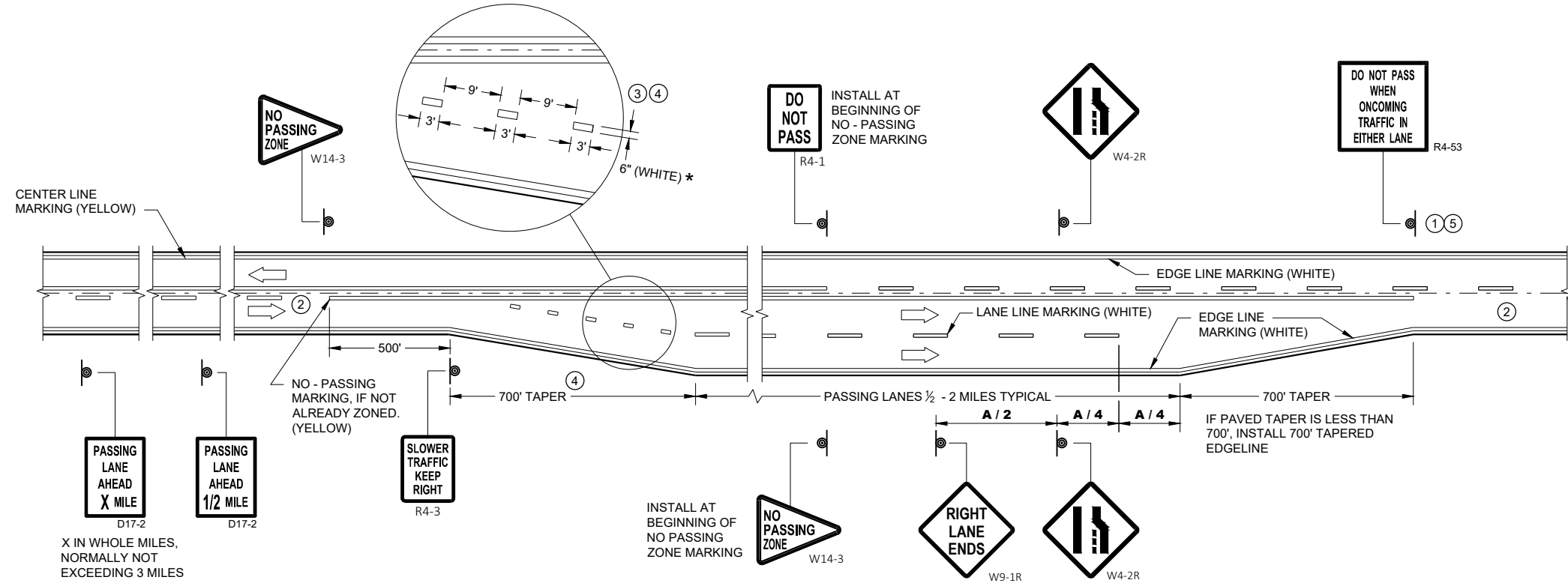


**PARTIAL DOUBLE - YELLOW LINE  
(BEGINNING OF SINGLE LANE)**

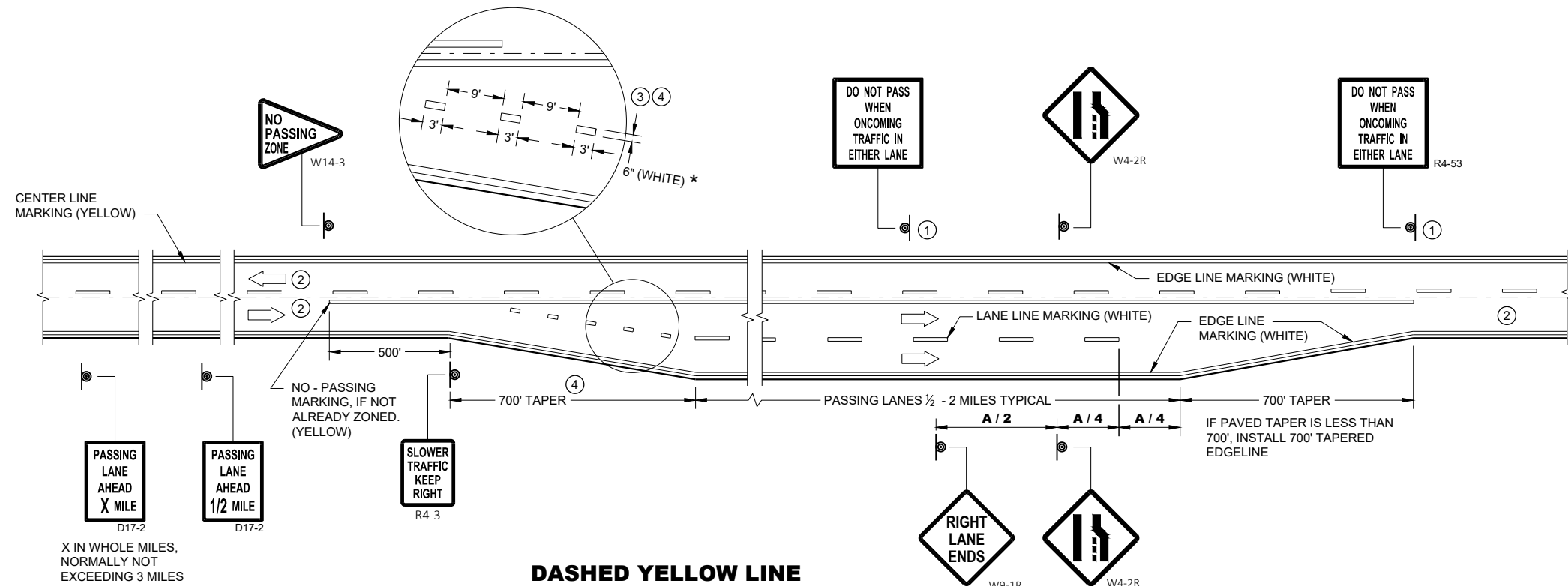
X IN WHOLE MILES,  
NORMALLY NOT  
EXCEEDING 3 MILES

**PAVEMENT MARKING & SIGNING  
(CLIMBING LANE & PASSING LANE)**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



**SOLID DOUBLE - YELLOW LINE  
(END OF SINGLE LANE)**



**DASHED YELLOW LINE  
(THROUGHOUT SINGLE LANE)**

**GENERAL NOTES**

- 1 SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- 2 THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- 3 THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- 4 WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
- 5 REPEAT EVERY ONE MILE UP UNTIL NO PASSING ZONE.

ARROW SYMBOL ( ) SHOWS DIRECTION OF TRAVEL

**DISTANCE TABLE**

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990

\* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

**PAVEMENT MARKING & SIGNING  
(CLIMBING LANE & PASSING LANE)**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
DATE: May 2023 /S/ Jeannie Silver  
STATE SIGNING AND MARKING ENGINEER

FHWA

## 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 FEET.










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

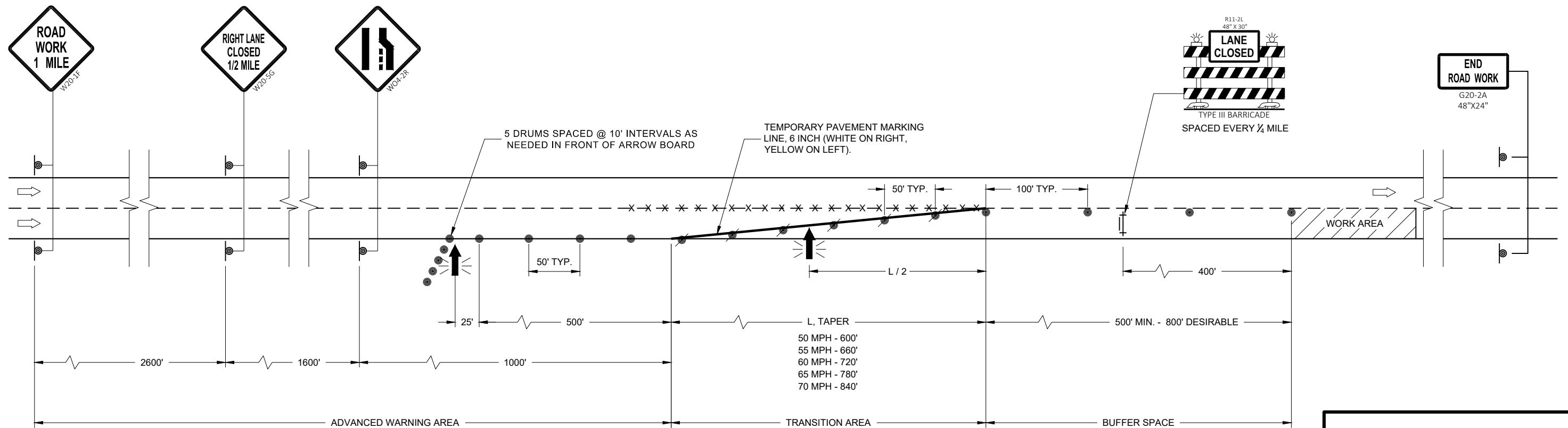
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS

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 SUCH AS A CROSSOVER MANEUVER.

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)
-  REMOVING PAVEMENT MARKINGS
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE May 2023	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

**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)
-  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" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" 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.

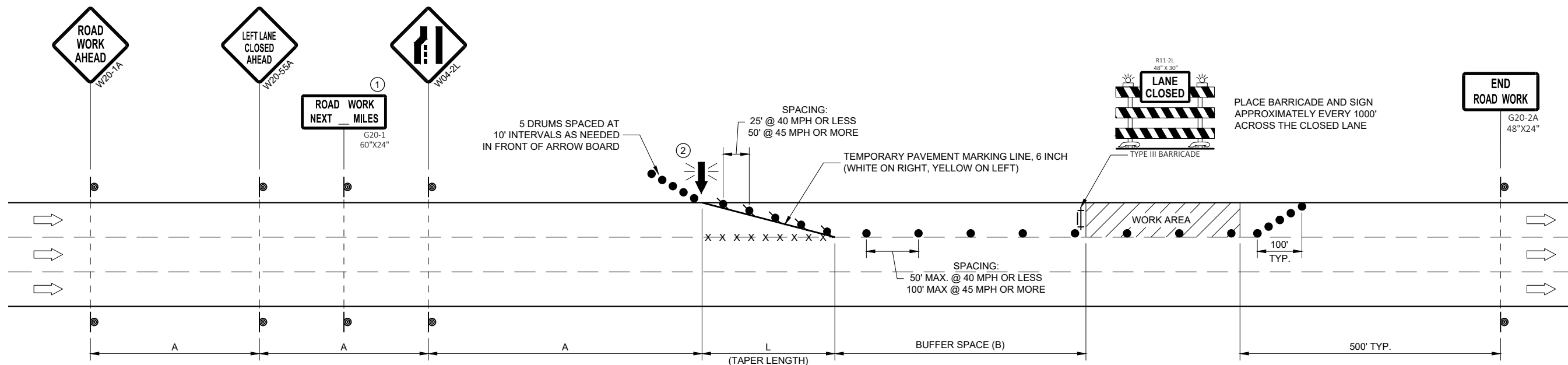
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

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 EACH 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.
- ② 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 PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'










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

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

FHWA

**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)
-  FLASHING ARROW BOARD
-  DIRECTION OF TRAFFIC
-  REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
-  WORK AREA

**GENERAL NOTES**

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

ALL SIGNS ARE 48"X48" UNLESS 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 EACH 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.

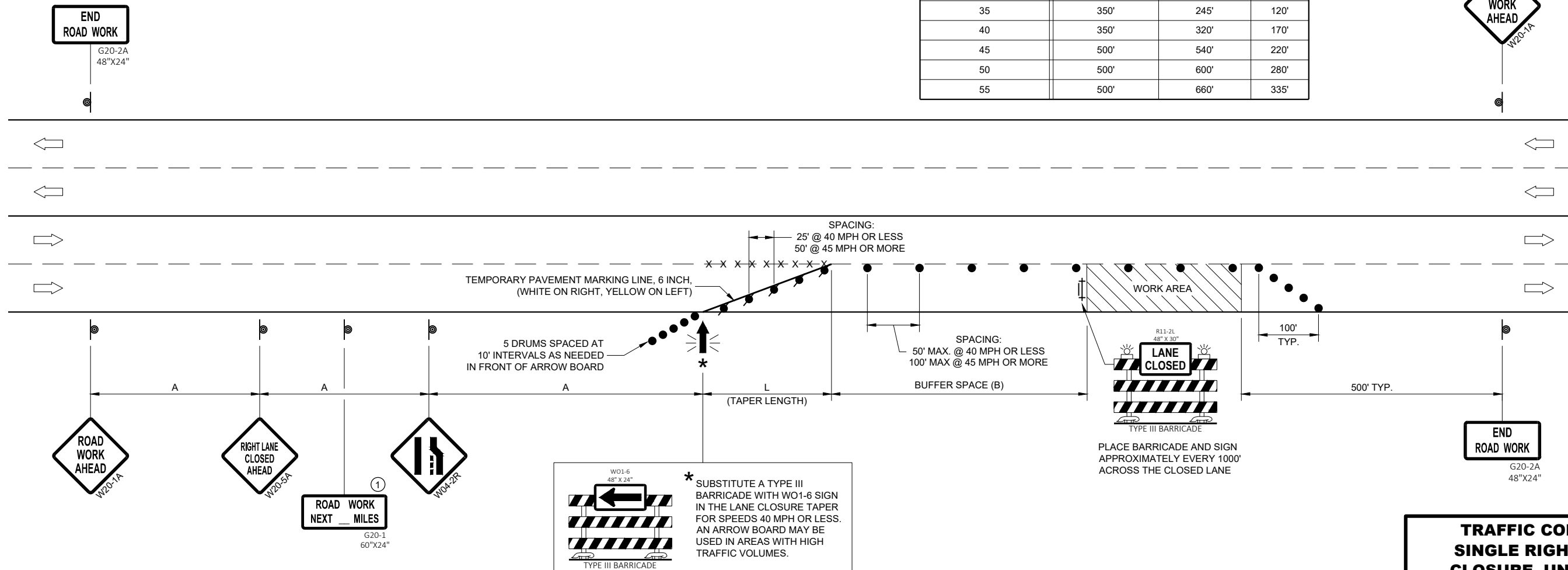
① OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'
50	500'	600'	280'
55	500'	660'	335'



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SDD 15D20-07b

SDD 15D20-07b










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

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

FHWA

**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)
-  FLASHING ARROW BOARD
-  DIRECTION OF TRAFFIC
-  REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
-  WORK AREA

**GENERAL NOTES**

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

ALL SIGNS ARE 48"X48" UNLESS 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.

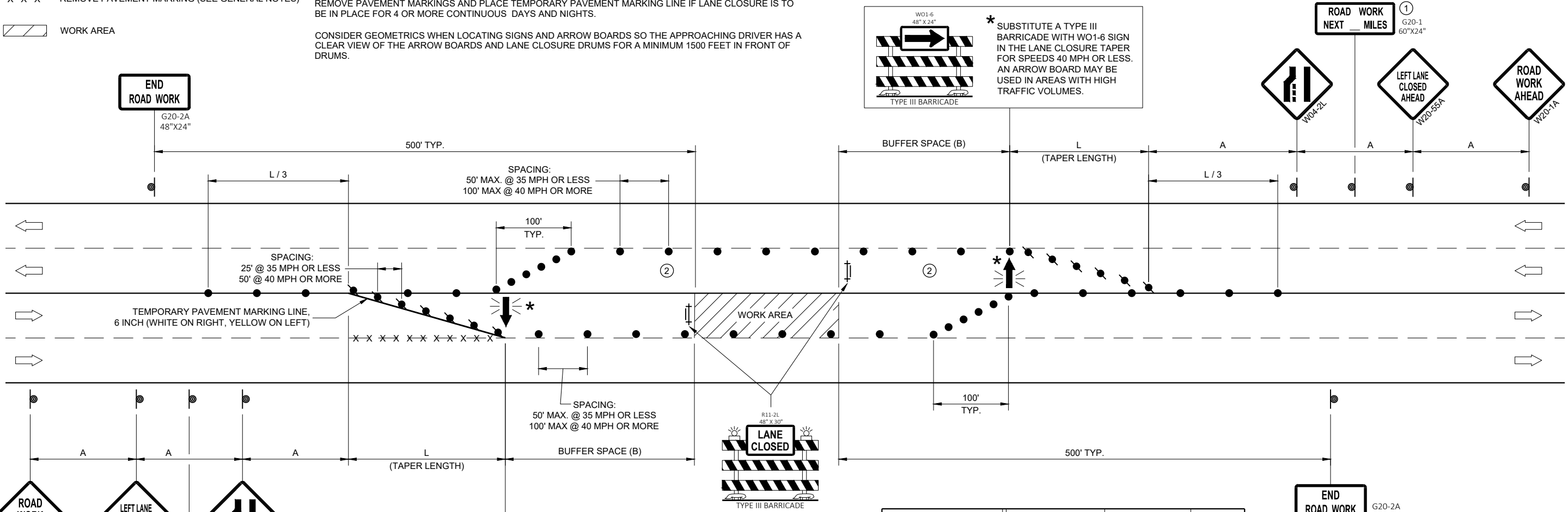
DUE TO LACK OF SHOULDER/MEDIAN, ARROW BOARD IS PLACED AT THE THE END OF THE TAPER.

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 EACH 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.
- ② LANE MAY BE OPENED WHEN WORKERS ARE NOT PRESENT IN THE WORK AREA.



**\* SUBSTITUTE A TYPE III BARRICADE WITH WO1-6 SIGN IN THE LANE CLOSURE TAPER FOR SPEEDS 40 MPH OR LESS. AN ARROW BOARD MAY BE USED IN AREAS WITH HIGH TRAFFIC VOLUMES.**

**\* SUBSTITUTE A TYPE III BARRICADE WITH WO1-6 SIGN IN THE LANE CLOSURE TAPER FOR SPEEDS 40 MPH OR LESS. AN ARROW BOARD MAY BE USED IN AREAS WITH HIGH TRAFFIC VOLUMES.**

**R11-2L 48" X 30"**

PLACE BARRICADE AND SIGN APPROXIMATELY EVERY 1000' ACROSS THE CLOSED LANE.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'
50	500'	600'	280'
55	500'	660'	335'

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

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

FHWA

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SDD 15D20-07C

SDD 15D20-07C



### GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

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

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.

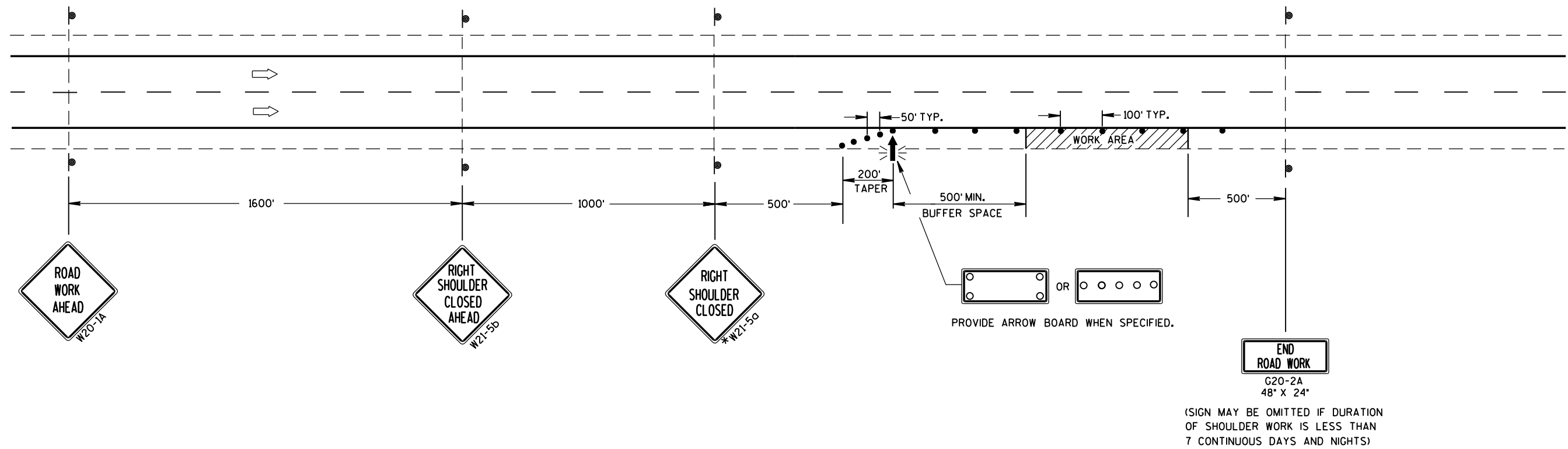
CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A 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.

\*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-50 SIGN MAY BE OMITTED.

### LEGEND







- TRAFFIC CONTROL DRUM
- ⊙ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ⚡➡ FLASHING ARROW BOARD
- ▨ WORK AREA



(SIGN MAY BE OMITTED IF DURATION OF SHOULDER WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS)

<b>TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2016 DATE	/s/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	

**LEGEND**

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

**GENERAL NOTES**

ALL SIGNS ARE 48"X48" BLACK ON ORANGE UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE 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.

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

ONLY ONE QUADRANT OF TRAFFIC SHALL BE RELEASED AT A TIME.

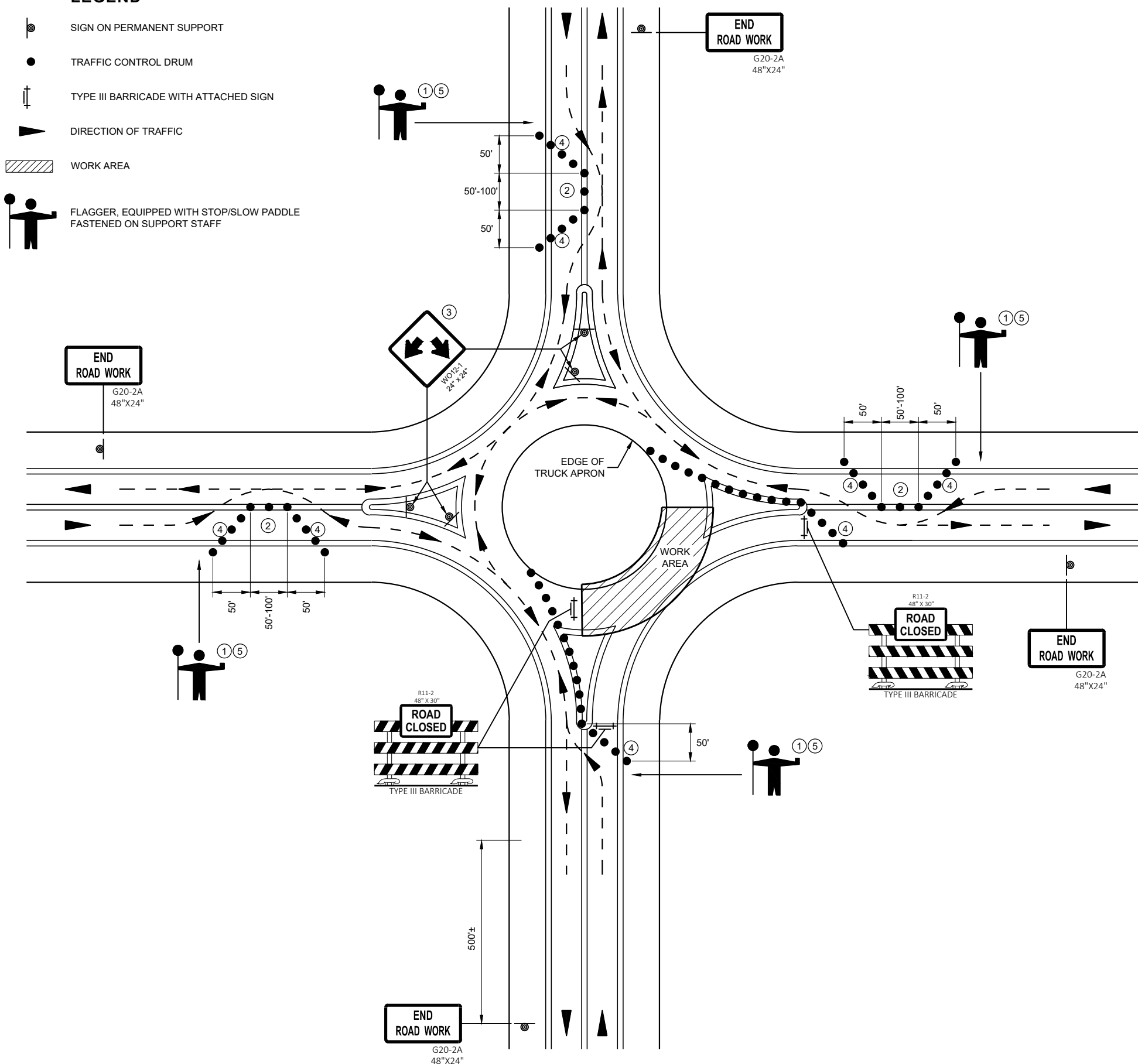
FLAGGERS SHALL CONTROL TRAFFIC ON ALL APPROACHES OF THE ONE-LANE ROUNDABOUT. ONE FLAGGER SHALL BE DESIGNATED LEAD FLAGGER.

NIGHT TIME WORK REQUIRES ADDITIONAL LIGHTING AT FLAGGER STATION(S).

- ① FLAGGERS SHALL BE IN DIRECT RADIO CONTACT AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.
- ② ADJUST CHANNELIZING DEVICES TO ACCOMMODATE FOR TURNING RADIUS OF LARGE VEHICLES AS DIRECTED BY THE ENGINEER.
- ③ GUIDE SIGN WITH ROAD NAMES MAY BE USED IN LIEU OF THE DOUBLE ARROW (WO12-1) SIGN.
- ④ THE TWO- WAY TAPER SHOULD BE 50 FEET USING 5 EQUALLY SPACED DRUMS.
- ⑤ FOLLOW SDD 15C12 FOR FLAGGING AND ADVANCE WARNING.

**RECOMMENDED REDUCED DRUM SPACING WITHIN ROUNDABOUT**

MPH	DRUM SPACING (FT)
0-40	25
45-55	50



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SDD 15D37 - 03

SDD 15D37 - 03

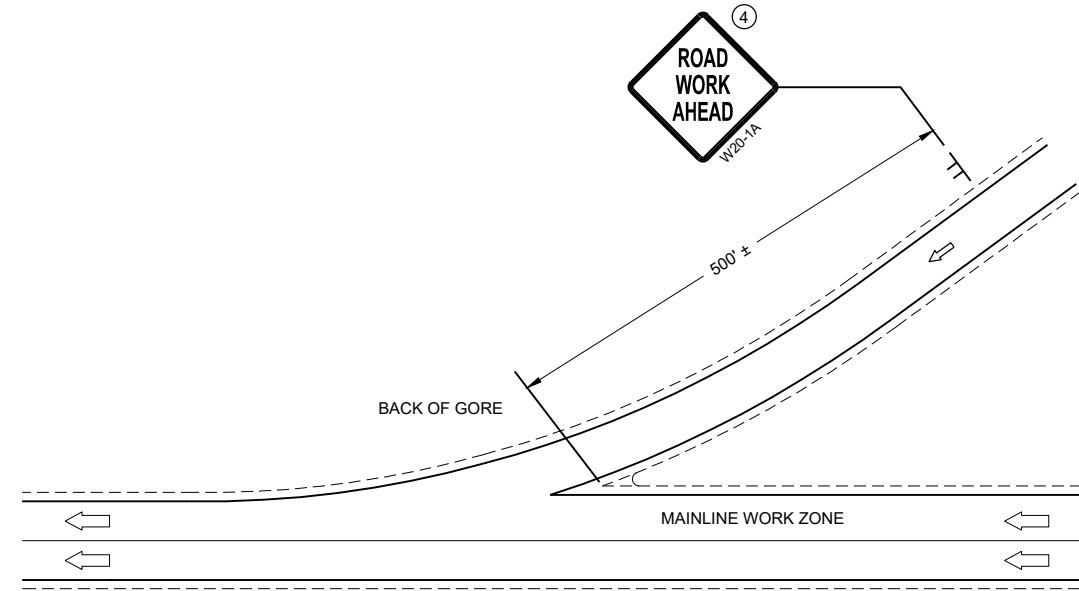
**TRAFFIC CONTROL, FLAGGING OPERATION, ROUNDABOUT**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2020 DATE /S/ Andrew Heidtke  
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER  
FHWA

**LEGEND**

- V1 SHADOW VEHICLE 1
- V2 SHADOW VEHICLE 2
- V3 ADVANCE WARNING TRUCK
- TRAFFIC CONTROL DRUM
- ◻ TRUCK MOUNTED ATTENUATOR (TMA)
- ⊥ SIGN ON TEMPORARY SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ◻ FLASHING ARROW PANEL (MERGE)
- ◻ FLASHING ARROW PANEL (CAUTION)
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- ▨ WORK AREA



**GENERAL NOTES**

SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.

MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

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

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

WHEN WORK ACTIVITY BLOCKS THE RIGHT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

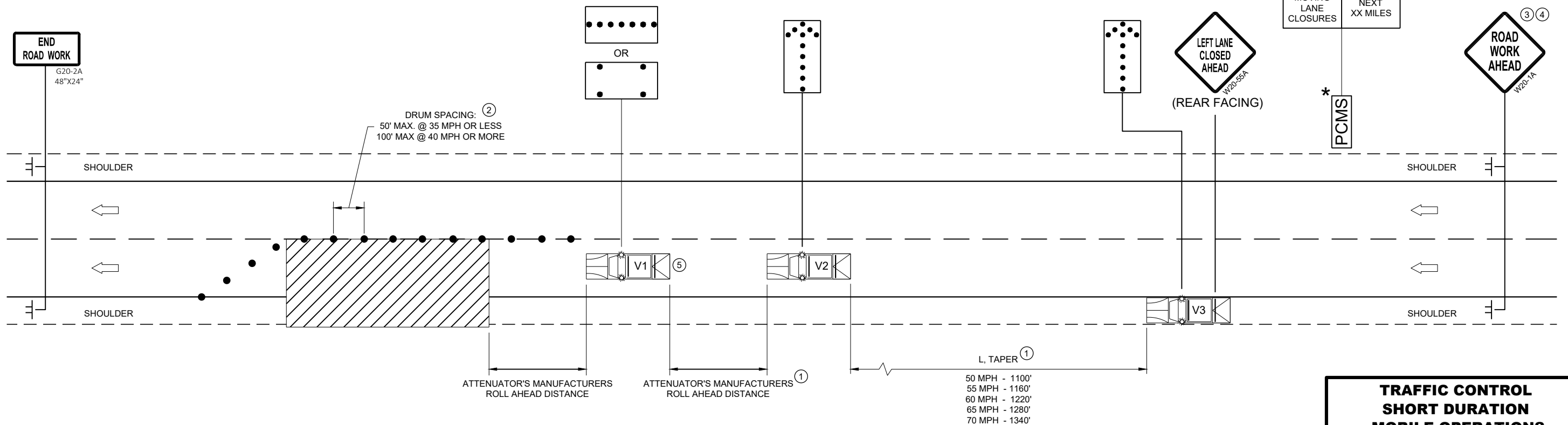
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

- ① DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO 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 AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- ② DRUMS ARE TO BE USED FOR BRIDGE DECK SEALING AND OTHER PROJECTS THAT REQUIRE DELINEATION.
- ③ WITHIN 5 MILES, RELOCATE SIGNS AS WORK PROGRESSES AND NECESSARY OR AS DIRECTED BY THE ENGINEER.
- ④ SIGN NOT REQUIRED IF MOVING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- ⑤ SHADOW VEHICLE 1 (V1) IS OPTIONAL

\* PCMS OPTIONAL

PCMS MESSAGING

FRAME 1	FRAME 2
MOVING LANE CLOSURES	NEXT XX MILES



**TRAFFIC CONTROL  
SHORT DURATION  
MOBILE OPERATIONS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION








APPROVED  
August 2021 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER

FHWA

6

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**LEGEND**

-  TYPE III BARRICADE WITH ATTACHED SIGN
-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE "A" WARNING LIGHT (FLASHING)
-  DIRECTION OF TRAFFIC
-  WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER $L/2$					
		W, LATERAL OFFSET (FT)					
		3	4	5	6	7	8
25	200	10	14	17	21	24	28
30	200	15	20	25	30	35	40
35	350	20	27	34	40	47	54
40	350	26	35	44	53	62	70
45	500	45	59	74	89	104	119
50	500	50	66	83	99	116	132
55	500	54	73	91	109	127	145

**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.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

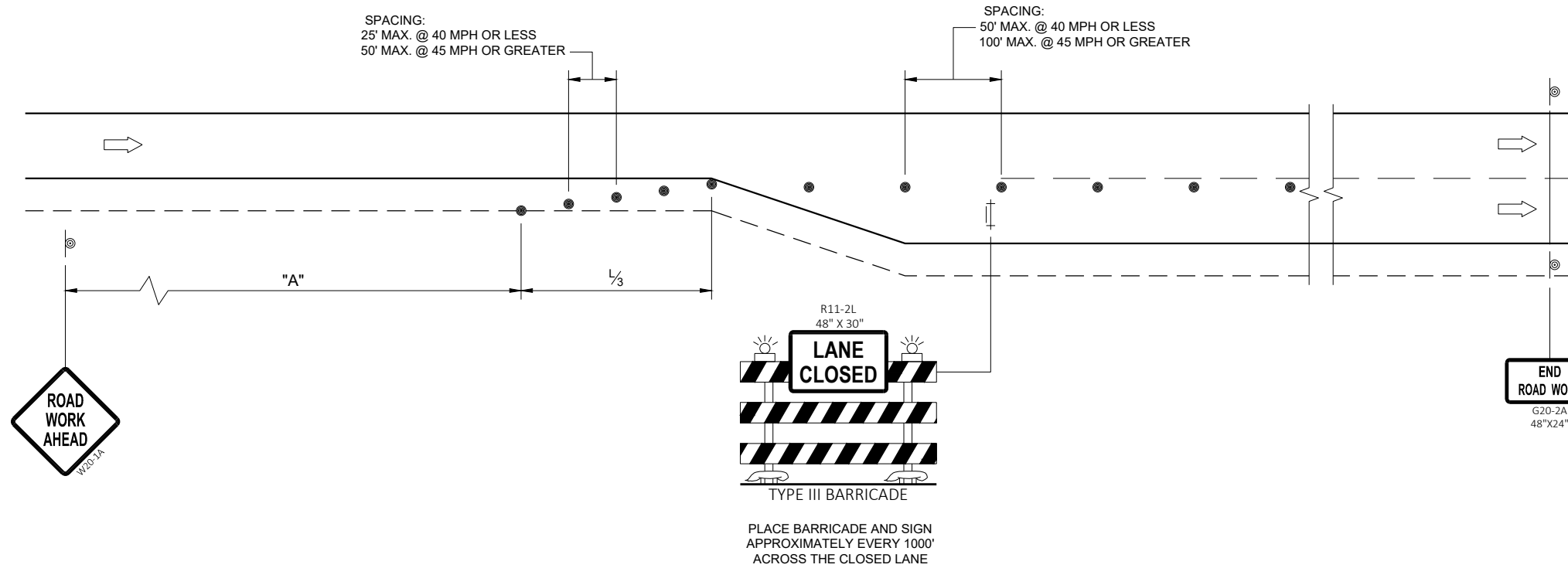
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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

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

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

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.



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





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SDD 15D50-03a

SDD 15D50-03a

<b>TRAFFIC CONTROL ADDED LANE CLOSURE WITHOUT LANE SHIFT</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE May 2023	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

**LEGEND**

-  TYPE III BARRICADE WITH ATTACHED SIGN
-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE "A" WARNING LIGHT (FLASHING)
-  DIRECTION OF TRAFFIC
-  WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER (L/2) FEET
25	200	60
30	200	90
35	350	120
40	350	160
45	500	270
50	500	300
55	500	330

**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.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"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 AND AS APPROVED BY THE ENGINEER.

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

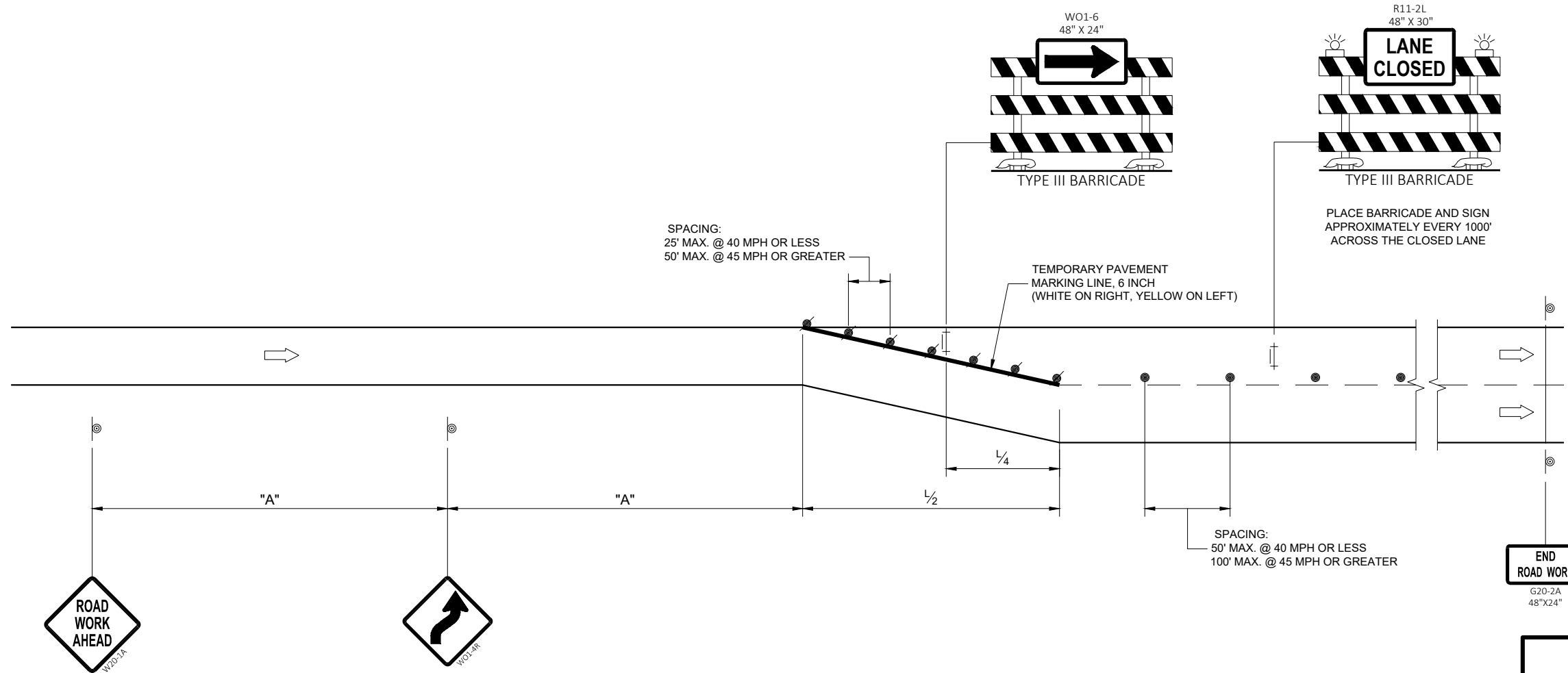
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.

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

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


SDD 15D50-03b

SDD 15D50-03b

<b>TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE May 2023	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

**LEGEND**

- V1 WORK VEHICLE
- 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.

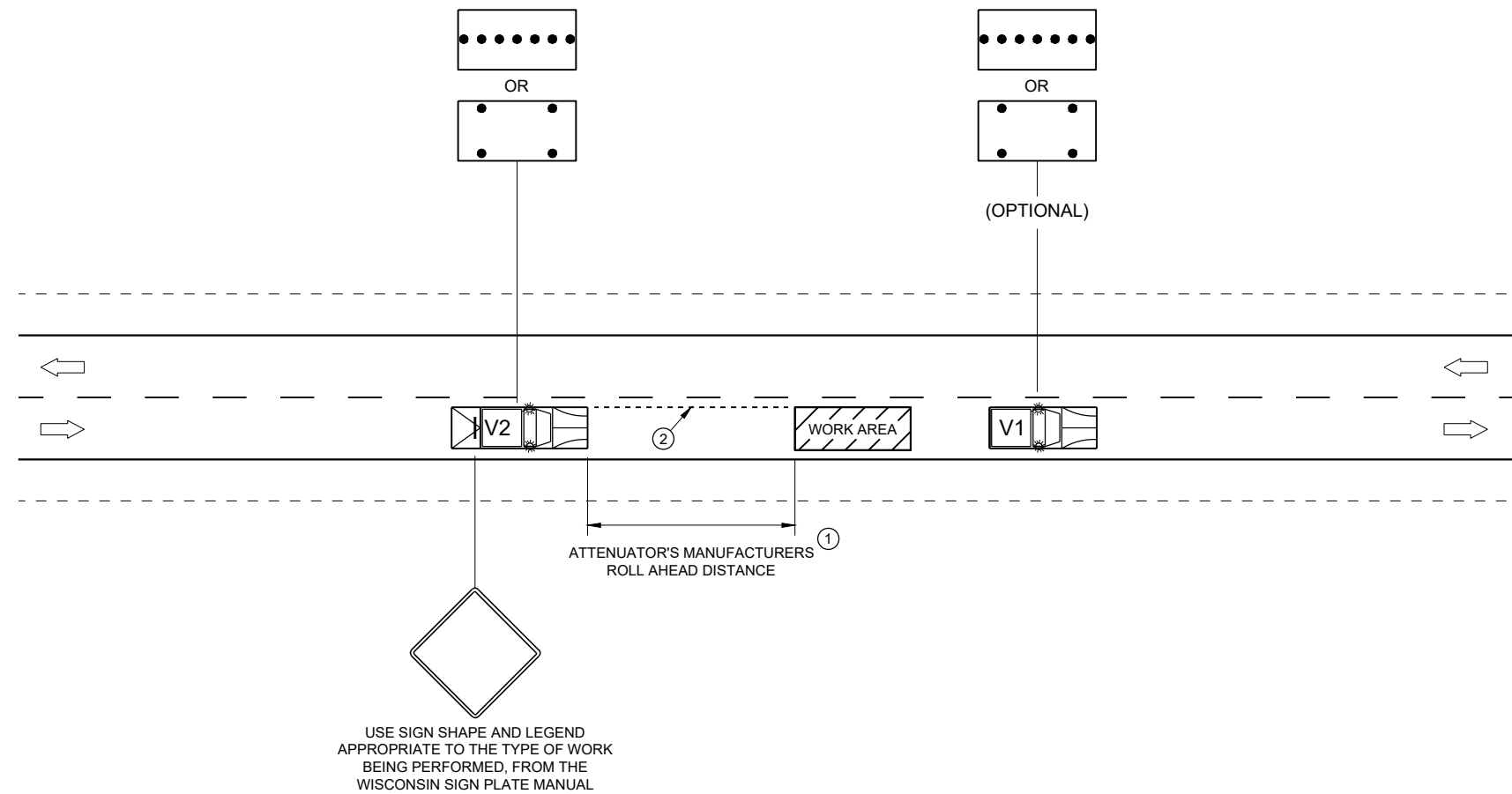
MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION SIGHT DISTANCE EVERY 15 MINUTES.

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 ARROW PANEL.

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

- ① 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.



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

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2021 /S/ Andrew Heidtke  
DATE STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

Notes



## *Wisconsin Department of Transportation*

Dedicated people creating transportation solutions through innovation and exceptional service.

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