

LAX

JANUARY 2023

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
- ~~Section No. 4 Right of Way Plat~~
- ~~Section No. 5 Plan and Profile~~
- Section No. 6 Standard Detail Drawings
- ~~Section No. 7 Sign Plates~~
- ~~Section No. 8 Structure Plans~~
- ~~Section No. 9 Computer Earthwork Data~~
- ~~Section No. 9 Cross Sections~~

TOTAL SHEETS = 50

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SOUTHWEST REGION WIDE

STN LOCATIONS PER ANNUAL PLAN

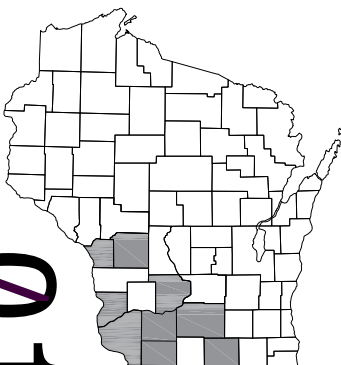
VAR HWY SW REGION

STATE PROJECT NUMBER
1009-12-98

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1009-12-98	_____	_____

PROJECT ID: 1009-12-98

COUNTY: SW REGION



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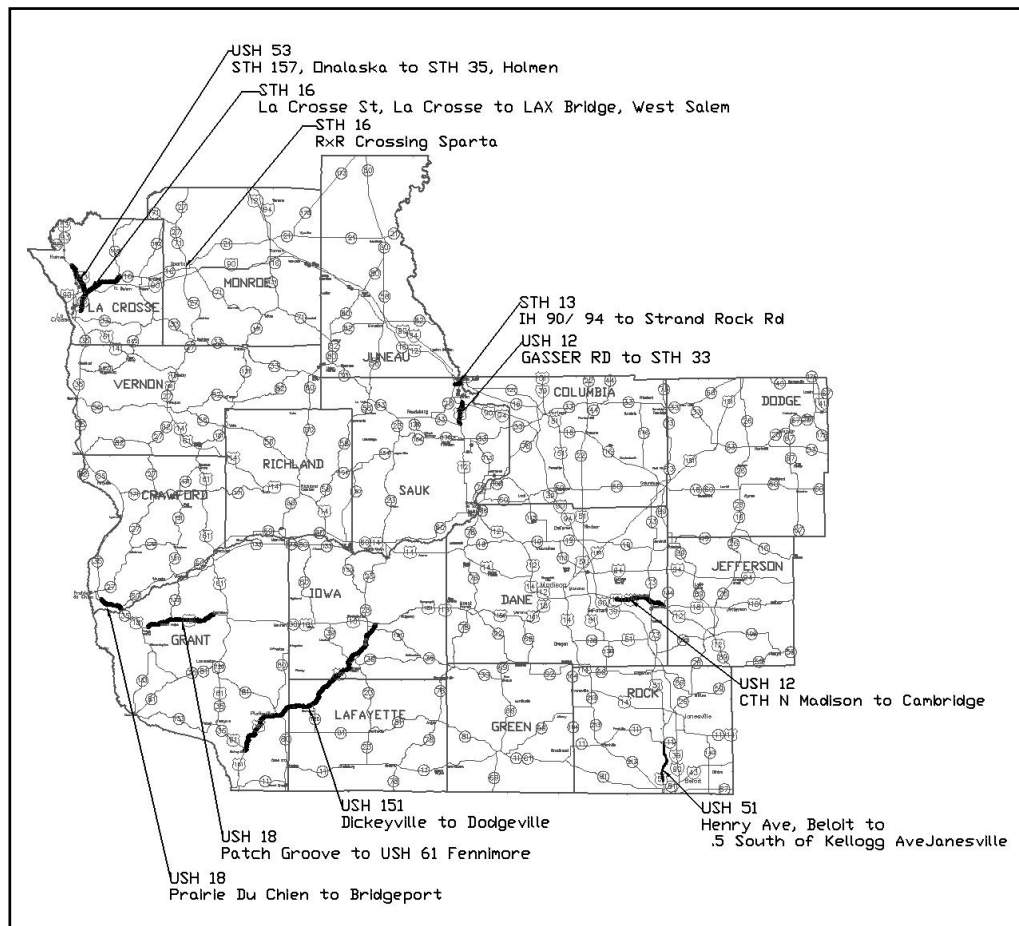
DESIGN DESIGNATION

- A.A.D.T. VARIES = VARIES
- A.A.D.T. VARIES = VARIES
- D.H.V. = VARIES
- D.D. = VARIES
- T. = VARIES
- DESIGN SPEED = VARIES
- ESALS = VARIES

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



LAYOUT
SCALE 0 _____ NA

TOTAL NET LENGTH OF CENTERLINE = 0 MILES

**STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION**

PREPARED BY

Surveyor _____

Designer _____ JEANNIE SILVER

Project Manager _____ JEANNIE SILVER

Regional Examiner _____

Regional Supervisor _____ RICHARD VYDRAZAL

APPROVED FOR THE DEPARTMENT

DATE: 8/22/22 *Richard J. Vydrazal*
(Signature)

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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 OF DIGGERS HOTLINE.

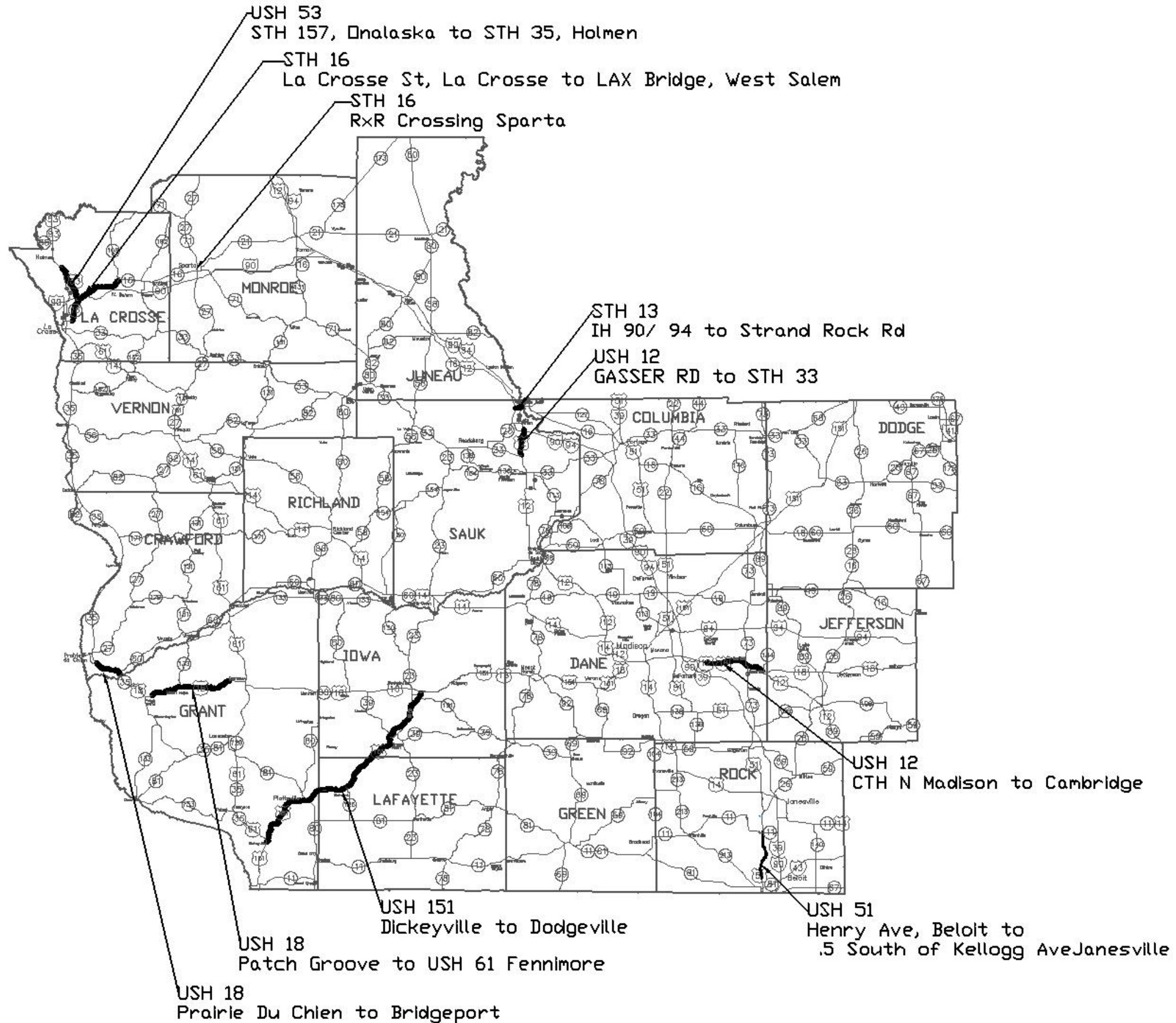


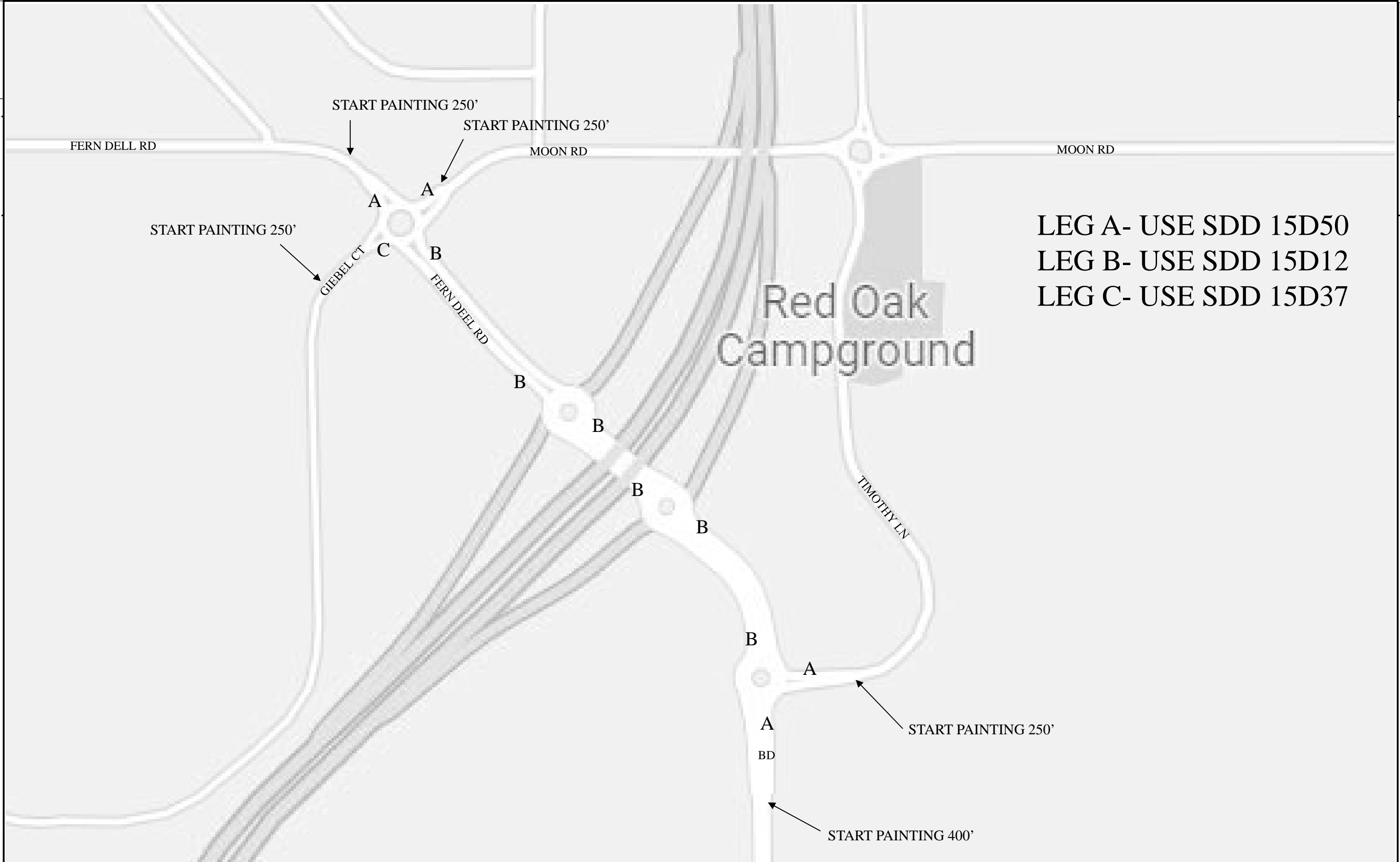
REGION CONTACTS

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 608-246-5408





LEG A- USE SDD 15D50
 LEG B- USE SDD 15D12
 LEG C- USE SDD 15D37

Estimate Of Quantities

1009-12-98

Line	Item	Item Description	Unit	Total	Qty
0002	619.1000	Mobilization	EACH	1.000	1.000
0004	646.1020	Marking Line Epoxy 4-Inch	LF	2,436,933.000	2,436,933.000
0006	646.3020	Marking Line Epoxy 8-Inch	LF	174,061.000	174,061.000
0008	646.5020	Marking Arrow Epoxy	EACH	577.000	577.000
0010	646.5120	Marking Word Epoxy	EACH	212.000	212.000
0012	646.5320	Marking Railroad Crossings Epoxy	EACH	2.000	2.000
0014	646.5420	Marking Aerial Enforcement Bar Epoxy	EACH	20.000	20.000
0016	646.6120	Marking Stop Line Epoxy 18-Inch	LF	4,713.000	4,713.000
0018	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	528.000	528.000
0020	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	2,355.000	2,355.000
0022	SPV.0060	Special 01. Traffic Control	EACH	1.000	1.000
0024	SPV.0090	Special 01. Marking Crosswalk Transverse Epoxy 12-IN	LF	3,917.000	3,917.000

**DANE COUNTY
USH 12/18
COTTAGE GROVE TO CAMBRIDGE**

ROUTE	LOCATION	646.1020 LINE EPOXY 4-INCH			646.3020 LINE EPOXY 8-INCH			646.5020 ARROW EPOXY		646.5120 WORD EPOXY		646.6120 STOP LINE EPOXY 18-INCH	
		EDGELINE YELLOW L.F.	CENTERLINE YELLOW L.F.	LANELINE WHITE L.F.	EDGELINE WHITE L.F.	LEFT TURN WHITE L.F.	GORE WHITE L.F.	RIGHT TURN WHITE L.F.	LEFT TURN TYPE 2 EACH	RIGHT TURN TYPE 3 EACH	LEFT TURN ONLY EACH	RIGHT TURN ONLY EACH	INTERSECTING ROADWAY L.F.
USH 12/18 EB & WB	1 Mile East of CTH N - Cambridge		69822		97397								
USH 12 EB	CTH BN CTH W							110 200				15 20	
	divided Highway at STH 73 Nuland Rd Right Turn Lane (3' Line, 9'Gap)	4540	2455	63	5077								
	Ramp to STH 73/Connector Road Off Ramp/Connector Road to STH 73	390		54	803	265			4	2	2	1	
	On Ramp/Connector Rd from STH 73 Clear View Rd Right Turn Lane	385		174	1915								
	State Farm Rd (Bypass Lane) Kenseth Way (Bypass Lane)			63 63									
	STH 134 USH 18					85 141			1 1		1 1		
USH 12 WB	USH 18 STH 134						197	181 108		1		1	31 24
	Kenseth Way Clear View Rd (Bypass Lane)			63				200					
	Divided Highway at STH 73 Ramp to STH 73/Connector Road	7309	2455	54	5497				2		1		
	Off Ramp/Connector Road to STH 73 On Ramp/Connector Rd from STH 73	863 926		174	938 2593	286			2		1		50
	Oak Park Rd CTH BN							100					15 15
	SUBTOTAL		14413	74732	708	115468	980	197	899	10	3	6	2

Grooved 8-Inch Contrast Tape to Remain at STH 73

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**SAUK COUNTY
USH 12 LONGLINE MARKINGS
CTH BD, LAKE DELTON TO BARABOO**

ROUTE	NEAREST CROSSROAD	646.0120 LINE EPOXY 4-INCH				646.3020 LINE EPOXY 8-INCH			
		EDGE LINE YELLOW L.F.	CENTERLINE YELLOW L.F.	LANE LINE WHITE L.F.	MINI DASH WHITE L.F.	EDGE LINE WHITE L.F.	RAMP WHITE L.F.	ISLAND GORE WHITE L.F.	MINI DASH WHITE L.F.
USH 12 EB	Mile Marker 212.18, CTH BD (Lake Delton) to Mile 217.45 (West Baraboo) Exit 212, BUS 12, CTH BD Off Ramp	31469 1044				26176 1383	645		280
CTH BD NB CTH BD SB	400 Feet South of CTH BD and Timothy Ln to USH 12/Fern Dell Rd and BD USH 12, Fern Dell Rd and CTH BD to 400 feet South of BD and Timothy Ln	1260		187 164	302 291	732 758	400 287	207 209	
Fern Dell Rd EB Fern Dell Rd WB	250 Feet West of Fern Dell Rd/ Moon Rd and Giebel Ct to USH 12/Fern Dell Rd and CTH BD USH 12, Fern Dell Rd and CTH BD to 250 feet west of Fern Dell Rd/Moon Rd and Gievel Ct	999 991	168	159 161	166 30	474 468	215 115	65 55	
Timothy Ln Moon Rd Giebel Ct	250 Feet North of CTH BD and Timothy Ln to CTH BD and Timothy Ln 250 Feet North of Fern Dell Rd/ Moon Rd and Giebel Ct to Fern Dell Rd/Moon Rd and Geibel Ct 250 Feet South of Fern Dell Rd/Moon Rd and Giebel Ct to Fern Dell Rd/Moon and Geibel Ct	632 189 331				434	100 95	54 65 56	
USH 12 EB USH 12 EB	Exit 212, BUS 12, CTH BD On Ramp Exit 214, N. Reedsburg Rd Off Ramp	830 1001				2165 1560			
N Reedsburg Rd EB N Reedsburg Rd WB	125 Feet West of the West Ramp Terminal to 150 feet East of East Ramp Terminal 150 feet East of the East Ramp Terminal to 125 feet West of West Ramp Terminal	580 560						144 142	
USH 12 EB USH 12 EB	Exit 214, N. Reedsburg Rd On Ramp Exit 215, STH 33 Off Ramp	1027 871				2367 1438			
STH 33 EB STH 33 WB	600 Feet West of the West Ramp Terminal to east West Terminal East Ramp Terminal to 600 feet West of the West Ramp Terminal							61 120	
Pit Rd USH 12 EB	250 Feet East of the East Ramp Terminal to east Ramp Terminal Exit 215, STH 33 On Ramp	629 931				394 2267		61	
USH 12 WB	Mile 217.45 (West of Baraboo) to Mile Marker 212 North of BUS 12/CTH BD	27562				22850			
	Exit 215, STH 33 Off Ramp	869				1347			
	Exit 215, STH 33 On Ramp	977				2318			
	Exit 214, N. Reedsburg Rd Off Ramp	1079				1622			
	Exit 214, N. Reedsburg Rd On Ramp	896				2225			
	Exit 212, BUS 12, CTH BD (Fern Dell Rd) Off Ramp	831				1390			
	Exit 212, BUS 12, CTH BD (Fern Dell Rd) On Ramp	1005				1454	911		329
SUBTOTAL		76563	682	671	789	73822	2768	1239	609

DO NOT PAINT TAPE LANE LINES OR CHANNILIZING LINES

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**SAUK COUNTY
USH 12 SPECIAL MARKINGS
CTH BD, LAKE DELTON TO BARABOO**

ROUTE	NEAREST CROSSROAD	646.5020 ARROW EPOXY					646.1520 WORD EPOXY ONLY WHITE EACH	646.6320 DOTTED EXTENSION 18-INCH EPOXY WHITE L.F.	
		TYPE 1 WHITE EACH	TYPE 2 WHITE EACH	TYPE 2R WHITE EACH	TYPE 3 WHITE EACH	TYPE 3R WHITE EACH			TYPE 5 WHITE EACH
USH 12 EB	Mile Marker 212.18, CTH BD (Lake Delton) to Mile 217.45 (West Baraboo) Exit 212, BUS 12, CTH BD Off Ramp		2			2	1	30	
CTH BD NB	400 Feet South of CTH BD and Timothy Ln to USH 12/Fern Dell Rd and BD	8			5	2		76	
CTH BD SB	USH 12, Fern Dell Rd and CTH BD to 400 feet South of BD and Timothy Ln	7			2	4	2	42	
Fern Dell Rd EB	250 Feet West of Fern Dell Rd/ Moon Rd and Giebel Ct to USH 12/Fern Dell Rd and CTH BD	3			4	1		48	
Fern Dell Rd WB	USH 12, Fern Dell Rd and CTH BD to 250 feet west of Fern Dell Rd/Moon Rd and Gievel Ct		2			2		28	
Timothy Ln	250 Feet North of CTH BD and Timothy Ln to CTH BD and Timothy Ln		2	2				26	
Moon Rd	250 Feet North of Fern Dell Rd/ Moon Rd and Giebel Ct to Fern Dell Rd/Moon Rd and Geibel Ct			2	2			24	
Giebel Ct	250 Feet South of Fern Dell Rd/Moon Rd and Giebel Ct to Fern Dell Rd/Moon and Geibel Ct							16	
USH 12 EB	Exit 214, N. Reedsburg Rd Off Ramp							18	
N Reedsburg Rd EB	125 Feet West of the West Ramp Terminal to 150 feet East of East Ramp Terminal							34	
N Reedsburg Rd WB	150 feet East of the East Ramp Terminal to 125 feet West of West Ramp Terminal							34	
USH 12 EB	Exit 215, STH 33 Off Ramp							22	
STH 33 EB	600 Feet West of the West Ramp Terminal to east West Terminal							36	
STH 33 WB	East Ramp Terminal to 600 feet West of the West Ramp Terminal							16	
Pit Rd	250 Feet East of the East Ramp Terminal to east Ramp Terminal							20	
USH 12 WB	Mile 217.45 (West of Baraboo) to Mile Marker 212 North of BUS 12/CTH BD							22	
	Exit 215, STH 33 Off Ramp							18	
	Exit 214, N. Reedsburg Rd Off Ramp							18	
	Exit 212, BUS 12, CTH BD (Fern Dell Rd) Off Ramp							18	
	Gasser Rd		6				6		
SUBTOTAL		18	12	4	13	11	2	7	528

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CRAWFORD COUNTY USH 18 PRAIRIE DU CHIEN TO BRIDGEPORT		646.1020 LINE EPOXY 4-INCH				646.3020 LINE EPOXY 8-INCH				646.5020 ARROW EPOXY			646.5120 WORD EPOXY		646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK TRANSVERSE EPOXY 6-INCH	
ROUTE	LOCATION	EDGELINE YELLOW L.F.	CENTERLINE YELLOW L.F.	EDGELINE WHITE L.F.	LANELINE WHITE L.F.	LEFT TURN WHITE L.F.	RIGHT TURN WHITE L.F.	ISLAND WHITE L.F.	MINI-DASH WHITE L.F.	LEFT TURN TYPE 2 EACH	RIGHT TURN TYPE 3 EACH	TWLTL TYPE 2 EACH	LEFT TURN ONLY EACH	RIGHT TURN ONLY EACH	MAINLINE L.F.	INTERSECTING ROADWAY L.F.	MAINLINE L.F.	INTERSECTING ROADWAY L.F.
USH 18 EB	E La Pointe St To S Town Ln STH 35 SB (Marquette Rd/ La Point St)	1982	4543	5324	1470										35	42	162	102
	Riverside Square Entrance S Vineyard Rd					120	72			2	1		1	1	39	32	90	177
	S Vineyard Rd To S Town Ln Industrial Blvd					149				2		20	1					
	S Town Ln S Town Ln to Wisconsin River Bridge	15908		16608	3550	129				2			1		39	29	87	
	Sugarloaf Trail Cabin Hill Ln						300	400		2	2		1	1				
	Ward Rd Church Driveway							400		2			1					
	Old Highway 18 Utopia Ln					900	300			4	2		3	1				
	Country Club Dr Bouska Rd						300	900		4	2		3	1				
	Longview Ct STH 60 EB							800		4			3					
	Upper Bridgeport Rd Transition to Two Lane Undivided		600					500		2			1					
USH 18 WB	Wisconsin River Bridge to Selch Rd Transition to Divided Highway	15973	600	16068	3450													
	Upper Bridgeport Rd Private Entrance						300	400			2			1				
	STH 60 EB STH 60 EB to USH 18 WB			500		400		900			2			1	25			
	Longview Ct Bouska Rd					300		800		4	2		3	1	30			
	Country Club Dr Utopia Ln						300	900		4	2		3	1	27			
	Old Highway 18 Church Driveway						300	900		4	2		3	1				
	Ward Rd Cabin Hill Ln						300	400		2	2		1	1				
	Sugarloaf Trail Private Entrance						300	400		2	2		1	1				
STH 60	STH 60 EB from USH 18 EB Ahead STH 60 WB to USH 18 Slip Ramp	100 300	75	275				100		2	1							
USH 18 WB	Ramp to STH 60 Selch Dr (S Town Ln) to E La Point ST	1984	4543	5561	1185			200		2			1		15			
	USH 18 WB S Town Ln					93				1			1		43	35	74	
	Industrial Blvd S Vineyard Rd					95 146				1 2			1 1		44	33		65
	STH 35/La Point St/Marquette Rd E La Pointe St WB to USH 18	36247	10361	44436	9655	1470 3802		9700	57 189	6 59			5 40		38 335		114 527	86 430
SUBTOTAL		72494	20722	44436	19310	7604	2472	19400	378	118	22	20	80	11	670	171	1054	430

PROJECT NO: 1009-12-98 HWY: USH 18 COUNTY: CRAWFORD MISCELLANEOUS QUANTITIES SHEET: E

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**GRANT COUNTY
USH 18
PATCH GROOVE TO FENNIMORE**

ROUTE	LOCATION	646.1020 LINE EPOXY 4-INCH			646.3020 LINE EPOXY 8-INCH WHITE Right Turn Lane L.F.
		EDGE LINE WHITE L.F.	LANE LINE WHITE L.F.	MINI DASH WHITE L.F.	
USH 18	0.35 miles east of STH 35 South (Patch Grove) - USH 61 (Fennimore)	160660	3687	998	
	Breuer Rd				300
	CTH JJ, Clark Rd				200
	STH 133				300
	CTH J				300
	Irish Ridge Rd, CTH JJ				400
	CTH K				400
	Hunter Hollow				200
SUBTOTAL		160660	3687	998	2100

*DO NOT PAINT CENTERLINES

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**ROCK COUNTY
USH 51
BAYLISS AVE BELOIT TO STH 11 JANESVILLE**

ROUTE	LOCATION	646.1020 LINE EPOXY 4-INCH			646.3020 LINE EPOXY 8-INCH		646.5020 ARROW EPOXY			646.5120 WORD EPOXY		646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK EPOXY TRANSVERSE LINE 6-INCH	
		CENTERLINE YELLOW L.F.	EDGE LINE WHITE L.F.	LANE LINE WHITE L.F.	LEFT TURN WHITE L.F.	RIGHT TURN WHITE L.F.	LEFT TURN TYPE 2 EACH	RIGHT TURN TYPE 2 EACH	TW/TL TYPE 2 EACH	MAINLINE TYPE 5 EACH	LEFT TURN ONLY EACH	RIGHT TURN ONLY EACH	INTERSECTING ROADWAY L.F.	MAINLINE L.F.	INTERSECTING ROADWAY L.F.
USH 51 NB	.1m S of Bayliss Ave to .4m N of Hwy 11 Bayliss Ave to Cranston Rd	67103	40492						10						
	CRANSTON RD WEIRICK RD			300	50							30	45	144	
	Entrance to Mobile Home CTH Q						2			1	2				
	Baldwind Woods Rd to Inman Pkwy INMAN PKWY								20			24	24	139	
	Inman Pkwy to Railroad Overpass TOWNLINE RD						1	1	30				166		
	Golf Rd to Black Hawk Tech CRYSTAL DR								14						
	BLACKHAWK TECH SCHOOL SHERMAN RD						2	2			1				
STH 11						2	1					46	46		
USH 51 SB	.1m S of Bayliss Ave to .4m N of Hwy 11 STH 11	29826	40492		264	106						46	55		
	AIRPORT RD HAPPY HOLLOW RD							2			1	25			
	SHERMAN RD Gold Rd						1	2			1				
	TOWNLINE RD AUBURN RD						2	2			1	1	27		
	Inman Pkwy Cranston Rd			300	300		2		1		1		35		
SUBTOTAL		96929	80984	600	614	106	18	14	77	1	5	6	198	371	283

DO NOT PAINT TAPE LANE LINES OR CHANNELIZING LINES

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LA CROSSE COUNTY
USH 53
STH 157 ONALSKA TO STH 35 HOLMEN

ROUTE	LOCATION	646.1020 LINE EPOXY 4-INCH				646.302 LINE Epoxy 8-INCH			646.6120 STOP LINE EPOXY 18-INCH	SPV.0090.01 CROSSWALK EPOXY 12-INCH TRANSVERSE
		EDGE LINE YELLOW L.F.	LANE LINE WHITE L.F.	MINI DASHES WHITE L.F.	EDGE LINE WHITE L.F.	MAINLINE WHITE L.F.	RAMP WHITE L.F.	ISLAND WHITE L.F.	INTERSECTING ROADWAY L.F.	ON RAMP WHITE L.F.
USH 53 NB	STH 157 Main Street (Onalaska) To 211' S of Old 93 Rd (end of 4-lane)	56568	13571	671	42376					
	STH 157 On Ramp	848			2267	866	867			109
	Sand Lake Rd Off Ramp	1196			2263	258	260	226	29	
	Sand Lake Rd On Ramp	879			2204	824	823			
	CTH OT Off Ramp	1216			2007	190	194	45	42	
	CTH OT On Ramp	938			2462	820	819			
	CTH HD/STH 35 SB- Off Ramp	1687			2907	229	226	265	25	
	CTH HD On Ramp	906			2313	647	642			
USH 53 SB	CTH MH/McHugh Road Off Ramp	1479			2213	190	177		44	
	CTH MH/McHugh Road - On Ramp	1216			2515	731	735			
	STH 35 North Junction Off Ramp (Holmen)	1104			1988	287	274	45	43	
	STH 35 North Junction On Ramp (Holmen)	1008			2530	803	817			
	211' So of Old 93 Rd (end of 4-lane) To STH 175 Main St (Onalaska)	55458	13694	708	40098					
	STH 35 North Junction Off Ramp (Holmen)	818			1529	235	226	40	42	
	STH 35 North Junction On Ramp (Holmen)	1010			2480	795	794			
	CTH MH/McHugh Road Off Ramp	1113			1827	189	195		22	
USH 53 SB	CTH MH/McHugh Road On Ramp	1401			2790	604	618			
	CTH HD/STH 35 SB Off Ramp	1877			2620	187	174		28	
	CTH HD On Ramp (Loop Ramp)	1488			3238	760	753			
	CTH HD On Ramp	787			2478	917	915			
	CTH OT Off Ramp	864			1656	258	241	51	42	
	CTH OT On Ramp	995			2444	862	865			
	Sand Lake Rd Off Ramp	1246			2147	233	223	59	43	
	Sand Lake Rd On Ramp	945			2285	836	833			
	STH 157 Off Ramp	826			1821	336	332	105	16	85
	SUBTOTAL	137873	27265	1379	135458	12057	12003	836	376	194

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**GRANT, LAFAYETTE and IOWA COUNTIES
USH 151 NB
DICKEYVILLE TO DODGEVILLE**

ROUTE	LOCATION	646.1020 LINE EPOXY 4-INCH			646.3020 LINE EPOXY 8-INCH					646.5420 AERIAL ENFORCEMENT BAR WHITE EACH	646.6120 18-INCH STOP LINE INTERCHANGING ROADWAY L.F.	
		EDGE LINE YELLOW L.F.	LANE LINE WHITE L.F.	EDGE LINE WHITE L.F.	LEFT TURN WHITE L.F.	RIGHT TURN WHITE L.F.	MAINLINE WHITE L.F.	RAMP WHITE L.F.	ISLAND WHITE L.F.			
USH 151 NB	0.25 mi South of USH 61/STH 35(Dickeyville) to CTH Z (Dodgeville)	205658	48674	181406								
	Exit 8 Off Ramp to USH 61	1120		1695			490	447				40
	Exit 8 On Ramp from USH 61	1082		2350			725	725				
	Hill Climb Rd				609							
	Fire Numbers 4052 and 4054				252							
	Clay Hollow Rd					460						
	Church Rd				499							
	North of Church Rd - Mile 11.50 to Mile 12.03									10		
	Little Platte Ln				401							
	Airport Rd				534	453						
	Fire Numbers 4638 and 4686				247							
	Fire Number 4862				224							
	Fire Numbers 4934, 4942 and 4656				228							
	Woody Ln South Junction				367							
	Fire Number 5223				251							
	Hummingbird Rd/ CTH O				456	460						25
	Major Ln/ Maple Ridge Rd				465	454						
	Southwest Rd				486	433						
	Fire Number 5753				239							
	Exit 18 Off Ramp to CTH D and Business 151	1090		1770			470	488				30
	Exit 18 On Ramp from CTH D and Business 151	1119		2646			856	848				
	Exit 19 Off Ramp to STH 80	1701		2317			455	453				25
	Exit 19 On Ramp from STH 80	887		2113			545	546				
	Exit 21 Off Ramp to CTH XX	2176		2795			446	454				25
	Exit 21 On Ramp from CTH XX	794		2466			1047	1042	232			
	Exit 26 at STH 126 Off Ramp (Belmont)	1158		1685			382	382				
	Exit 26 at STH 126 On Ramp (Belmont)	814		2155			724	724				
	Fire Number 18500				201							
	Fire Numbers 18804 and 18828 (Steinhoff Ln)				237							
	Maple Lane				476	369						
	Fire Numbers 19663 and 19505				234							
	Burr Oak Rd				475	361						
	Mile 30.07 Left Turn Lane				233							
	Bethel Grove Rd				471	361						
	Fire Number 20617				246							
	Mile 31.00 Field Entrance				234							
	Mile 31.40 Field Entrance				238							
	Mile 31.70 Field Entrance				249							
	Mile 32.30 (Fire Number 284)				356							
	Fire Number 21990				196							
Mile 33.00				201								
CTH A				473	349							
Pittz Schaaf Rd				254								
Fire Number 325				214								
S Oak Park Rd Right Turn Lane				437	348							
Mile 35.40 Field Entrance				213								
Mile 36.00 Field Entrance				208								
Exit 37 at CTH O Off Ramp (Mineral Point)	1179		1723			360	360	187			25	
Exit 37 at CTH O On Ramp (Mineral Point)	1275		2710			846	846	50				
Exit 40 at STH 39 Off Ramp (Mineral Point)	1589		2146			394	394				23	
Exit 40 at STH 39 On Ramp (Mineral Point)	1324		2702			760	760					
CTH YD				450	381							
Fire Numbers 1998 and 2011				177								
CTH Y				466	374							
Chris-Na-Mar Rd				427	352							
Exit 44 at STH 23 Off Ramp (Dodgeville)	2534		3227			191	191					
Exit 44 at STH 23 On Ramp (Dodgeville)	2235		3382			783	783					
Exit 47 at USH 18 Off Ramp (Dodgeville)	2720	644	3445			241	366					
Exit 47 at USH 18 On Ramp (Dodgeville)	3996		4932			766	766					
		234451	49318	227665	12624	5155	10481	10575	469	10	193	

DO NOT PAINT TAPE GORES

3

3

**GRANT, LAFAYETTE and IOWA COUNTIES
USH 151 SB
DODGEVILLE TO DICKEYVILLE**

ROUTE	LOCATION	646.1020 LINE EPOXY 4-INCH			646.3020 LINE EPOXY 8-INCH				646.5420	646.6120	
		EDGELINE YELLOW L.F.	LANELINE WHITE L.F.	EDGELINE WHITE L.F.	LEFT TURN WHITE L.F.	RIGHT TURN WHITE L.F.	MAINLINE WHITE L.F.	RAMP WHITE L.F.	ISLAND WHITE L.F.	AERIAL ENFORCEMENT BAR WHITE EACH	18-INCH STOP LINE INTERCHANGING ROADWAY L.F.
USH 151 SB	CTH Z (Dodgeville) to 0.25 mi South of USH 61/STH 35 (Dickeyville)	204934	48095	195068							
	Exit 47 at USH 18 Off Ramp (Dodgeville)	989		2514			772	772			
	Exit 47 at USH 18 On Ramp (Dodgeville)	1709		3736			719	719			
	Exit 44 at STH 23 Off Ramp (Dodgeville)	924		1890			309	309			30
	Exit 44 at STH 23 On Ramp (Dodgeville)	836		2358			661	661			
	Chris-Na-Mar Rd				432	346					
	Fire Number Radio Station				200						
	CTH Y				445	350					
	Fire Numbers 1998 and 2011				235						
	CTH YD				435	350					
	Exit 40 at STH 39 Off Ramp (Mineral Point)	1202		1705			337	337			25
	Exit 40 at STH 39 On Ramp (Mineral Point)	926		2384			872	872			
	Exit 37 at CTH O Off Ramp (Mineral Point)	1411		1944			378	378			25
	Exit 37 at CTH O On Ramp (Mineral Point)	925		2334			826	826			
	Mile 36.00				215						
	Mile 35.40				250						
	N Oak Park Rd				448	334					
	Fire Number 330				198						
	Pittz Schaaf Rd				473	353					
	CTH A				470						
	Mile 33.00				228						
	Fire Number 21990				473						
	Mile 32.30 (Fire Number 284)				243						
	Mile 31.70				231						
	Mile 31.40				248						
	Mile 31.00				245						
	Fire Number 20617				241						
	Jericho Rd				473	345					
	Mile 30.07 Field Entrance				241						
	Burr Oak Rd				478	356					
	Fire Numbers 19663 and 19505				241						
	Maple Lane				480	358					
	Fire Numbers 18804 and 18828 (Steinhoff Ln)				234						
	Fire Number 18500				243						
	Exit 26 at STH 126 Off Ramp (Belmont)	1117		1658			385	385			
	Exit 26 at STH 126 On Ramp (Belmont)	799		2210			739	739			
	Exit 21 Off Ramp to CTH XX	1930		2130			266	260	382		15
	Exit 21 On Ramp from CTH XX	862		2332			771	767			
	Exit 19 Off Ramp to STH 80	1702		2268			392	396			25
	Exit 19 On Ramp from STH 80	1023		2526			831	829			
Exit 18 Off Ramp to CTH D Business 151	872		1497			461	458			25	
Exit 18 On Ramp from CTH D and Business 151	1095		2589			827	829				
Fire Number 5753				247							
Southwest Rd				493	464						
Major Ln /Maple Ridge Rd				491	470						
Hummingbird Rd				505							
CTH O					448					35	
Fire Number 5223				223							
Woody Ln North Junction				239	321						
Fire Numbers 4931 and 4951				240							
Fire Number 4853				243							
Fire Numbers 4638 and 4686				237							
Airport Rd				638							
Little Platte Ln				240	334						
North of Church Rd - Mile 12.03 to Mile 11.50									10		
Church Rd				231	493						
Clay Hollow Rd				673							
Fire Numbers 4052 and 4054				395							
Hill Climb Rd				249	462					62	
Exit 8 Off Ramp to USH 61	1184		1737			394	399			40	
Exit 8 On Ramp from USH 61	1235		2549			674	664				
		225675	48095	235429	13444	5784	10614	10600	382	10	282

DO NOT PAINT TAPE GORES

PROJECT NO: 1009-12-98

HWY: USH 151

COUNTY: VARIOUS

MISCELLANEOUS QUANTITIES

SHEET:

E

3

**SAUK COUNTY
STH 13
IH 90/94 TO STRAND ROCK RD**

ROUTE	LOCATION	646.0120 LINE EPOXY 4-INCH				646.3020 LINE EPOXY 8-INCH					646.5020 ARROW EPOXY		646.5120 WORD EPOXY	646.6120 STOP LINE 18-INCH EPOXY		646.7420 6-INCH EPOXY CROSSWALK	
		EDGE LINE WHITE LF	EDGE LINE YELLOW LF	LANE LINE WHITE LF	MINI DASH WHITE LF	BIKE LANE WHITE LF	LEFT LANE WHITE LF	GORE WHITE LF	RIGHT LANE WHITE LF	MINI DASH WHITE LF	TYPE 2 WHITE EACH	TYPE 3 WHITE EACH	ONLY WHITE EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	MAINLINE LF	INTERCHANGING ROADWAY LF
STH 13 NB	IH 90/94 EB Exit Gore TO Strand Rock Rd	6106	4146	1426	284												
	IH 90/94 WB Exit Ramp					399		797									
	S Frontage Rd					205		85									
	CTH H/Trout Rd						130		37				34	14	56	100	
	Commercial Entrance-Mobile						125			33							
	Commercial Entrance-IHOP						110			84							
USH 12 STH 13 NB	Commercial Entrance- Walgreens						66			49							
	USH 12, STH 16 and STH 23					262	90		357	121	1		1	35.5		214	
STH 13 SB	STH 16 and STH 23											3				66	
	Strand Rock Rd						123				2		1				
	Stand Rock Rd to IH 90/94 EB On Ramp Gore	7012	4462	1891	160												
	Interstate 90 - 94 WB On Ramp	1845	717			297		297									
STH 13 SB	CTH H						188		293					38	24	86	
	Commercial Entrance- Paul Bunyans					101			104								
	USH 12, STH 16 and STH 23					478			192	55	3	3	3	34.5		66	
SUBTOTAL		14963	9325	3317	444	1742	832	1179	879	446	6	6	5	142	38	488	100

3

**MONROE COUNTY
STH 16
WEST OF EAST AVE, SPARTA**

646.5320
MARKING RAILROAD
CROSSING EPOXY
WHITE
EACH

ROUTE	LOCATION	
STH 16	WEST OF EAST AVE, SPARTA	2
TOTAL		2

3

LA CROSSE COUNTY STH 16 LA CROSSE TO WEST SALEM		646.0120 LINE EPOXY 4-INCH						646.3020 LINE EPOXY 8-INCH			646.5020 ARROW EPOXY			646.5120 WORD EPOXY		646.6120 STOP LINE 18-INCH EPOXY		SPV.0090.01 CROSSWALK EPOXY 12-INCH	
ROUTE	LOCATION	EDGELINE YELLOW L.F.	CENTERLINE YELLOW L.F.	DASHES YELLOW L.F.	EDGELINE WHITE L.F.	LANELINE WHITE L.F.	DASHES WHITE L.F.	LEFT LANE WHITE L.F.	RIGHT LANE WHITE LF	GORE WHITE L.F.	TWLTL TYPE 2 EACH	LEFT LANE TYPE 2 EACH	RIGHT LANE TYPE 2 EACH	LEFT LANE ONLY EACH	RIGHT LANE ONLY EACH	MAINLINE L.F.	INTERSECTING ROADWAY LF	MAINLINE L.F.	INTERSECTING ROADWAY LF
	La Crosse St to La Crosse River Bridge La Crosse St to Sunset Lane	23440	36789		40663	14146					34								
	Sunset Court CTH B, Gillette St			42		75			117 137	362		4	2		1	62	28	207	151
	Sunset Lane CTH B, Conoco Rd								155 150	421			2			49	36		
	Medary Ln Ramp to 12th Ave South STH 157			42		51			203 113	374		6	2		1	60	36		219
	Mall Main Entrance Braund St							232 136	157			2	2	1	1	51	31	159	168
	Theater Road Side Street to Olive Garden							634	153			4	2	3	1	49	42	159	190
	Pralle Center Dr/S Kinney Coulee Rd IH-90 EB On Ramp							299	177			3	2	2	1	51	41	168	202
	IH-90 WB On Ramp IH-90 WB OFF Ramp								232 408				2		2	47			
	Main Street/N Kinney Coulee Rd Commercial Entrance HOM Furniture	1220		42		51	36	473 113	179 216			2	2	2	2	48 26	44		104
	Oak Dr /French Rd Emerald Dr	199						109	125 320	250		2	3	2	3	14			
	Maple Ln / Pierce Rd Moos Rd								280 1218	1066		2	2	1	1				
	Hidden Trails Corn Maze Settlers Trail							353				2		1					
	Oakview Rd William Rd									1189		2		1					
	Gills Coulee Rd Carlson Rd (Park Entrance)							312 302 361				2		1				31	
	Heritage Ln Heritage Blvd							156 152				1		1		30 23			
	CTH M CTH M to West Ave							173			10	2		1		37	30		
	West Ave Brickl Rd							100 139	206			2	2	1	1	48 36	31 27	175 176	177 119
	W Hamlin St to CTH C CTH C										2		1						28
	CTH C to STH 108 STH 108							233			6	2		1					
	STH 108 to La Crosse River										2								
	TOTAL	24859	36789	126	40663	14323	36	4277	3902	4880	54	53	36	26	20	715	398	1044	1330

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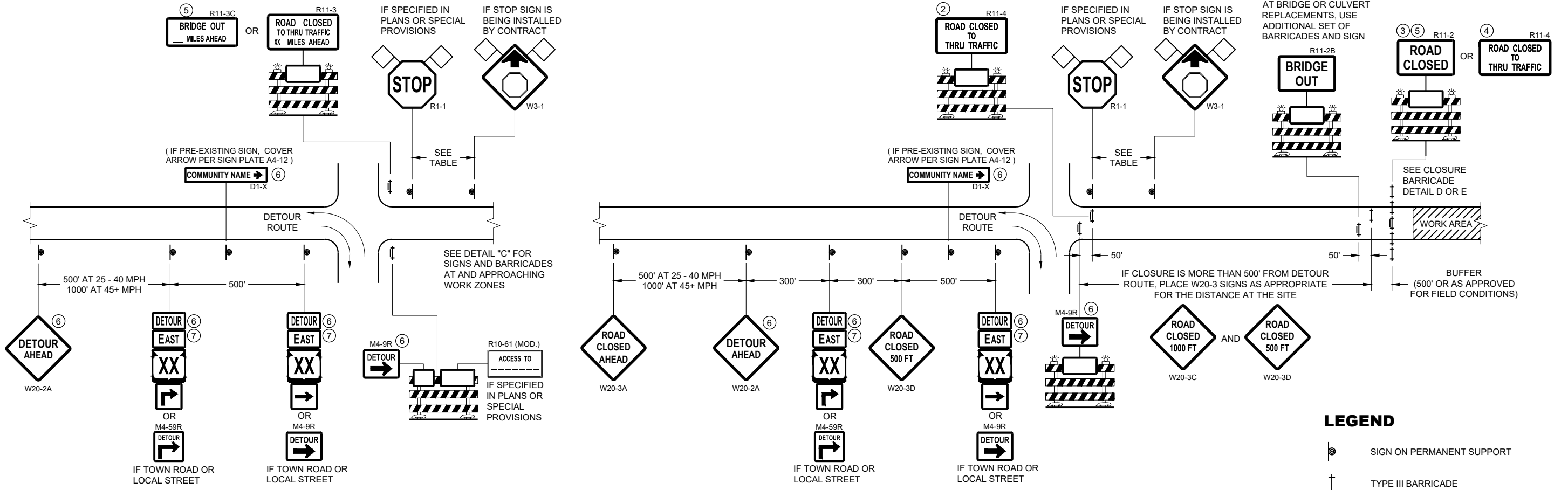
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LA CROSSE COUNTY
STH 16
LA CROSSE TO WEST SALEM

ROUTE	LOCATION	646.0120 LINE EPOXY 4-INCH					646.3020 LINE EPOXY 8-INCH			646.5020 ARROW EPOXY		646.5120 WORD EPOXY		646.6120 STOP LINE 18-INCH EPOXY		SPV.0090.01 CROSSWALK EPOXY 12-INCH			
		EDGE LINE YELLOW L.F.	CENTERLINE YELLOW L.F.	DASHES Yellow L.F.	EDGE LINE WHITE L.F.	LANE LINE WHITE L.F.	DASHES WHITE L.F.	LEFT LANE WHITE L.F.	RIGHT LANE WHITE LF	GORE WHITE L.F.	TW/LTL TYPE 2 EACH	LEFT LANE TYPE 2 EACH	RIGHT LANE TYPE 2 EACH	LEFT LANE ONLY EACH	RIGHT LANE ONLY EACH	MAINLINE L.F.	INTERSECTING ROADWAY LF	MAINLINE L.F.	INTERSECTING ROADWAY LF
	La Crosse River Bridge to La Crosse St East of La Crosse River Bridge	53023	5719		37959	13530													
	STH 108 CTH C						141 248	94			2 2	1	1 1			35			
	Hamlin Street West Ave						154 185	63			2 2	1	1 1		36 58	25 25	181 194	123 178	
	CTH M Heritage Blvd						143 71				2 1		1 1		36 29	32	168		
	Heritage Ln Carlson Rd						152 160	181			1 1	1	1 1	1	29 21				
	Gills Coulee Rd Henry Rd						261 279	299			2 2	2	1 1	1					
	Oakview Dr Settlers Trl							296	1075		2	2	1	1					
	Moos Rd Maple Lane / Pierce Rd							316 554	1109			2		1					
	Emerald Dr Oak Dr						135	104	350		2 2	2 1	2 1	2 1					
STH 16 WB	Commercial Entrance Main Street		42		51		198 183	179			2 2	2	2 2	2 2	49		114		
	IH-90 WB On Ramp IH-90 EB Off Ramp (Mainline at Traffic Signals)								190						36	36			
	IH-90 EB On Ramp Farm & Fleet Entrance						291	95			2	2	2		38				
	So. Kinney Coulee Road/Paralle Center Drive PH						223	160			2	2	2	1	54	49			
	Theater Road Braund St.						529 122	162 126			3 1	2	2 1	1 1	24 37	36 15			
	STH 157, Valley View Mall Entrance Commercial Entrance		42		51		247	286			2 1	2	1 1	1 1	60				
	Ramp to Cheastrut Place CTH B							530	156		2	2	2		38	37			
	Sunset Lane CTH B, Gillette St, Frontage Road		51		60		293	282			2 2	2	1 1	1 1	79	25	219	172	
	Vista Court North Vista Court South						146 105				2 2	2							
	TOTAL	53023	5854	0	38121	13530	284	4796	3858	2880	4	48	27	30	14	624	315	876	473

Standard Detail Drawing List

15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-21A	LONGITUDINAL MARKING (MAINLINE)
15C08-21C	PAVEMENT MARKING (TURN LANES)
15C08-21D	PAVEMENT MARKING (TURN LANES)
15C09-12A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C14-04	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
15C18-06A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-06B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C19-07A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-07B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-07C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-04A	PAVEMENT MARKING EXIT RAMP AND PARALLEL EXIT RAMP
15C31-04B	PAVEMENT MARKING MAJOR SPLIT FREEWAY TO FREEWAY
15C31-04C	PAVEMENT MARKING ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-05A	PAVEMENT MARKING (INTERSECTIONS)
15C35-05B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-05C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D12-10A	TRAFFIC CONTROL, LANE CLOSURE
15D20-06A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D20-06B	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D20-06C	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
15D50-02A	TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT
15D50-02B	TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT



**DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE GREATER THAN OR EQUAL TO 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

**DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR**

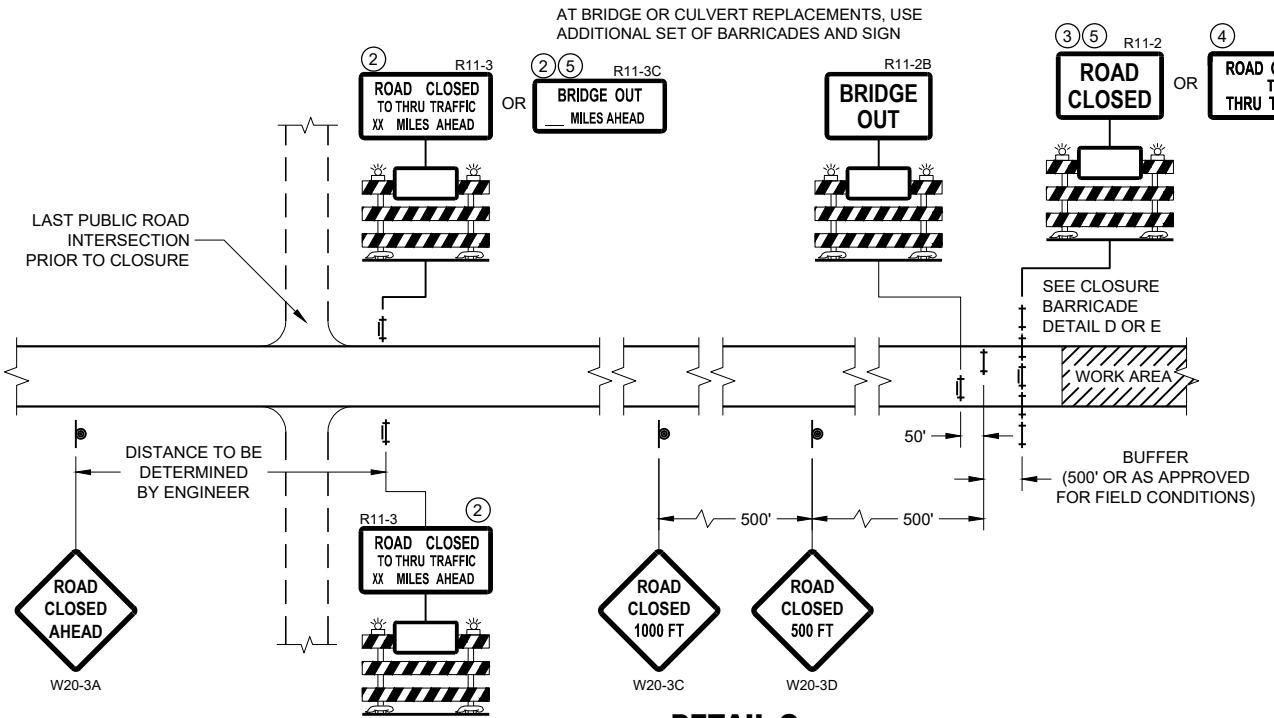
WORK ZONE LESS THAN 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

- M4 - 8
- M3 - X
- M1 - 4
- M1 - 6
- M1 - 5A
- M05 - 1
- M06 - 1



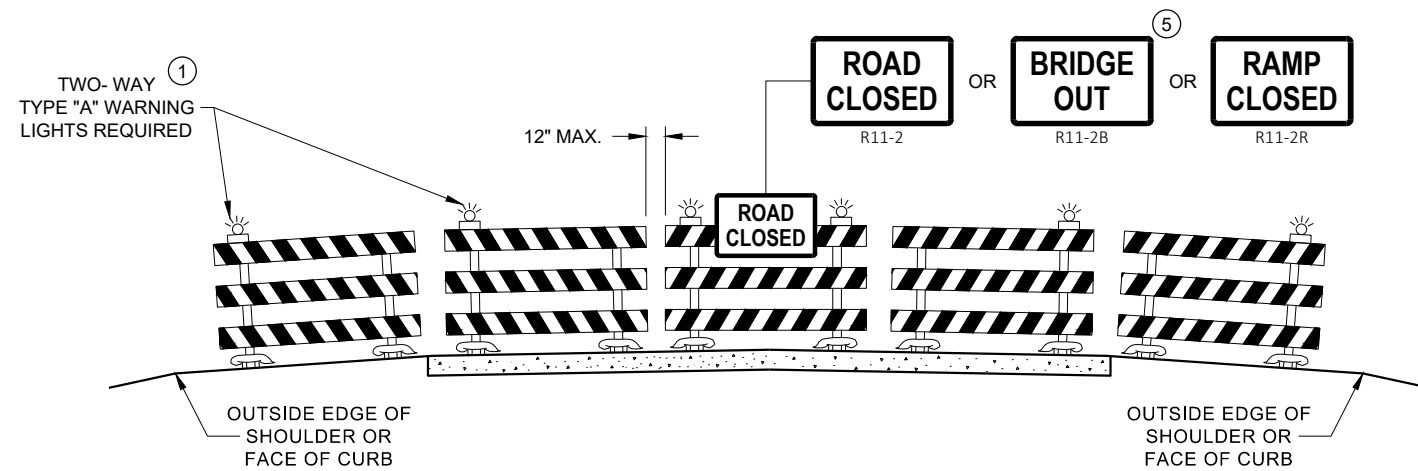
**DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR**

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

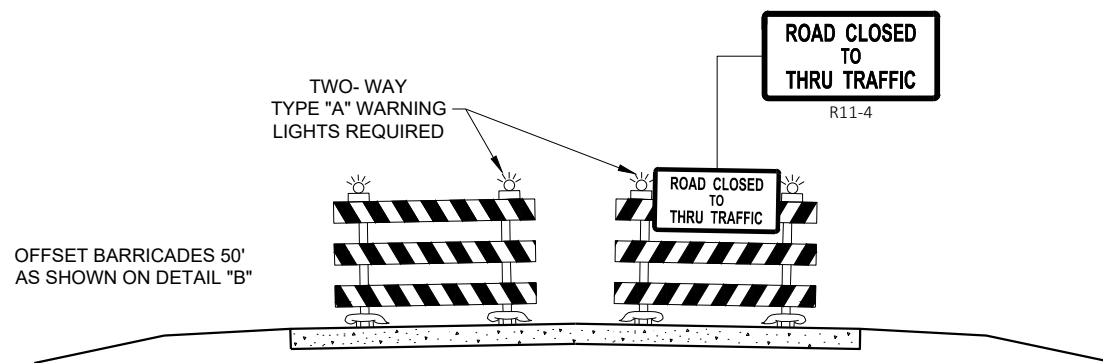
**BARRICADES AND SIGNS
FOR MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA



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



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

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60" X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

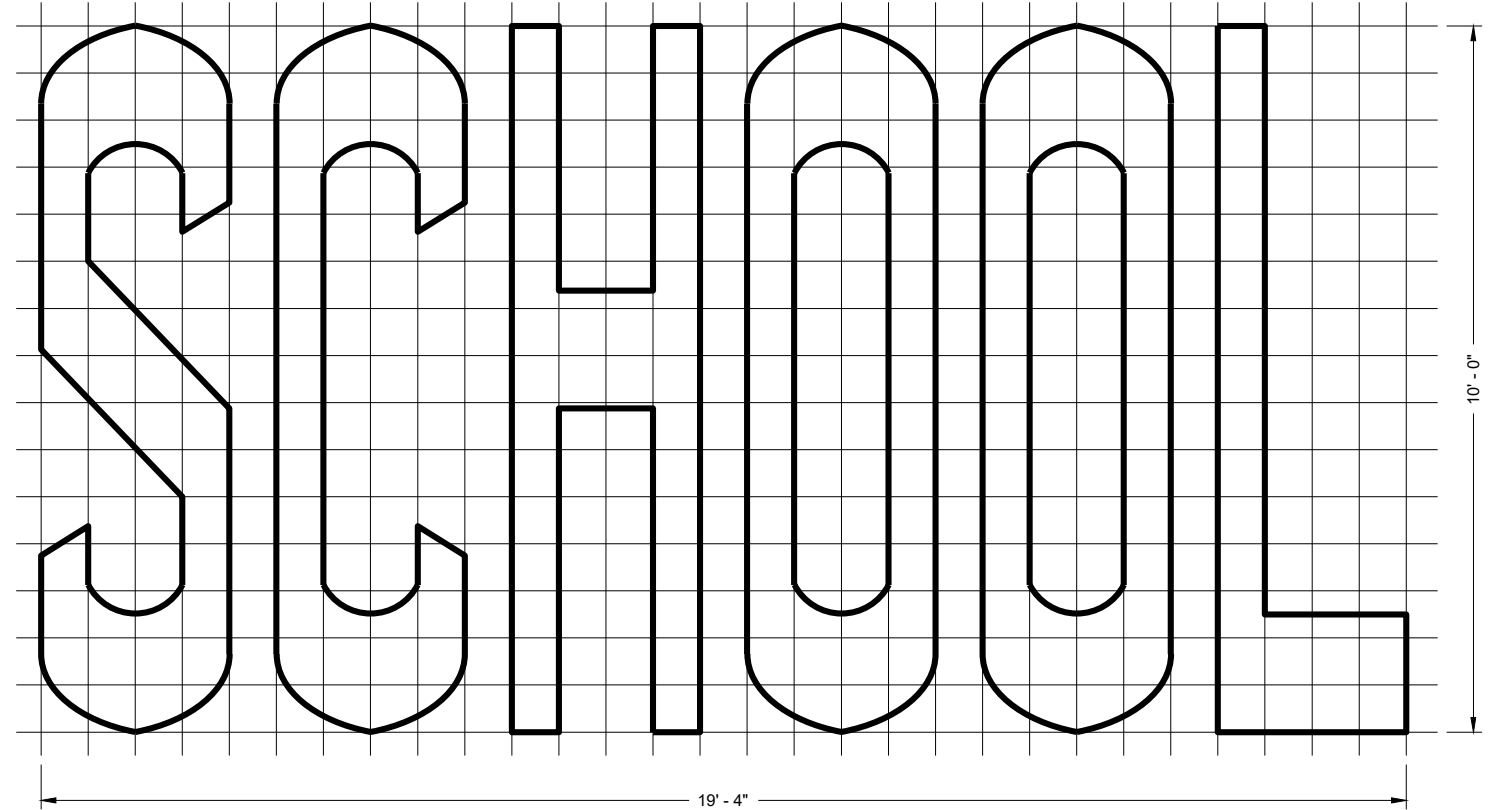
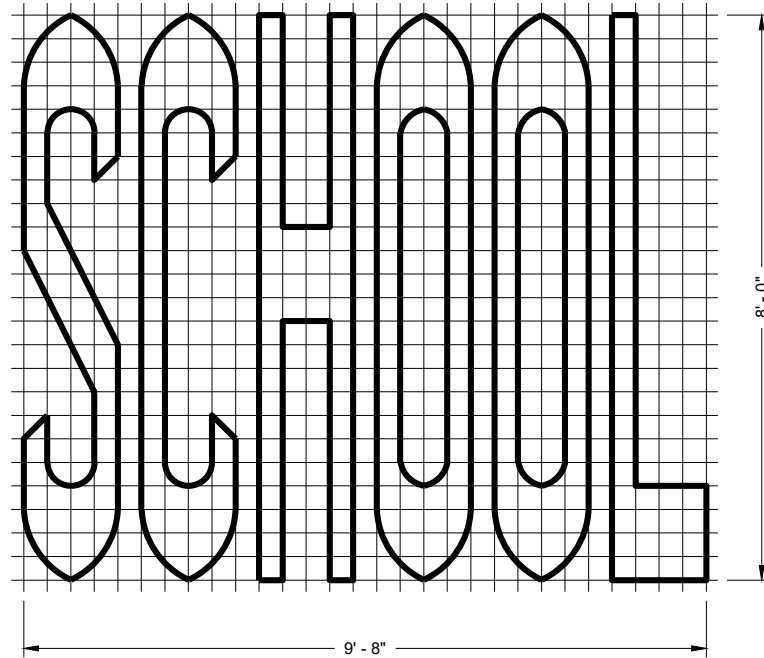
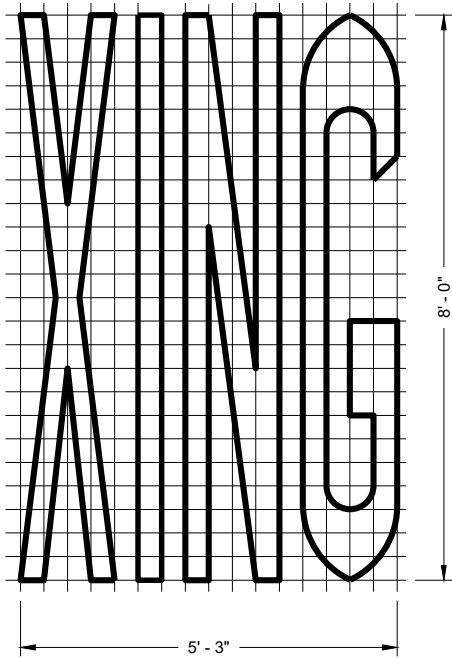
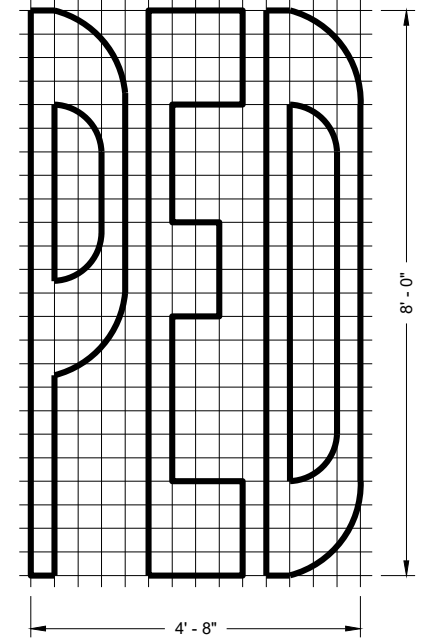
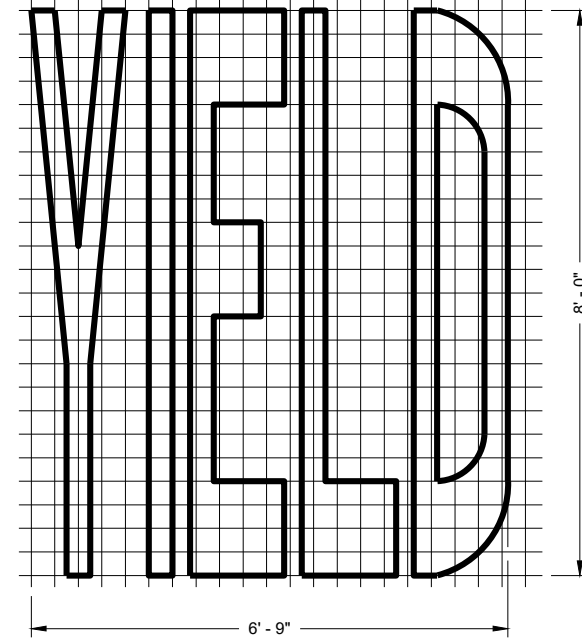
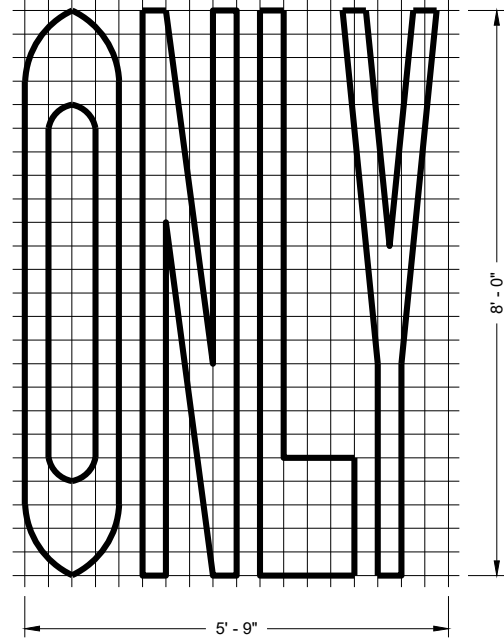
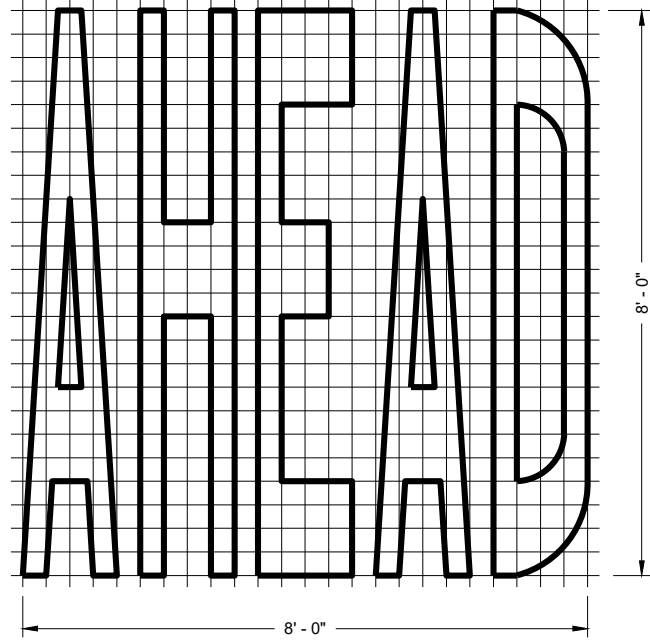
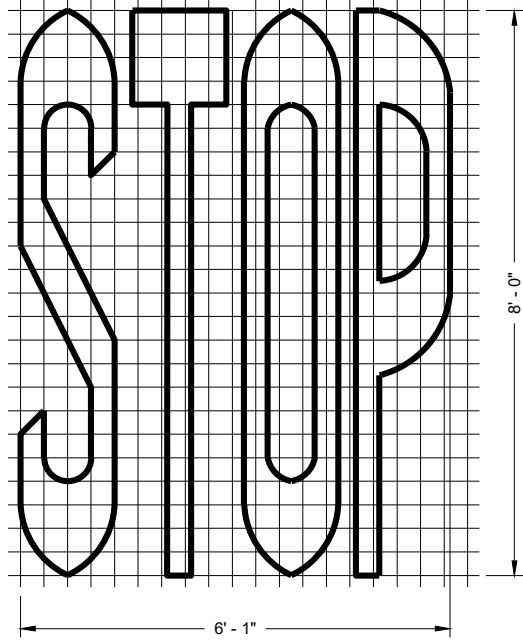
- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- ③ FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- ④ FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- ⑤ FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- ⑥ INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- ⑦ "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

**BARRICADES AND SIGNS
FOR
VARIOUS CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA



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.

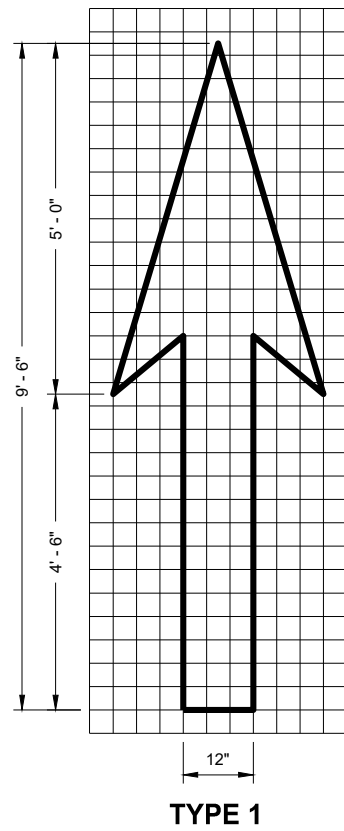
PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

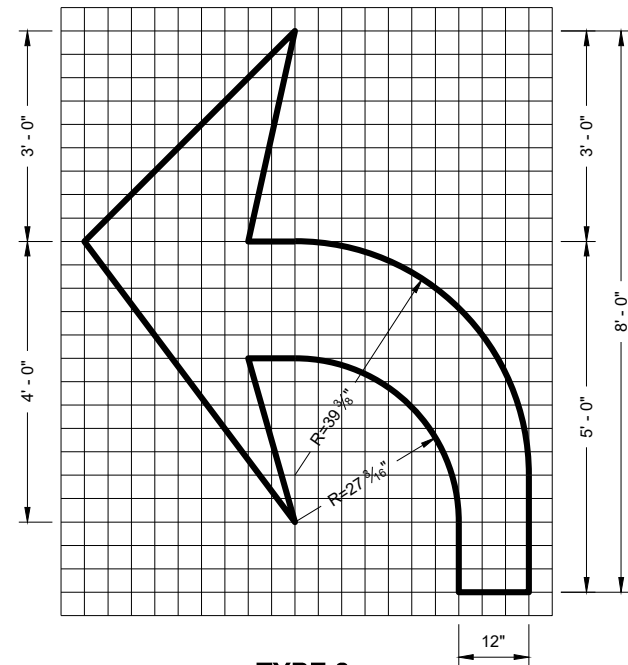
APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

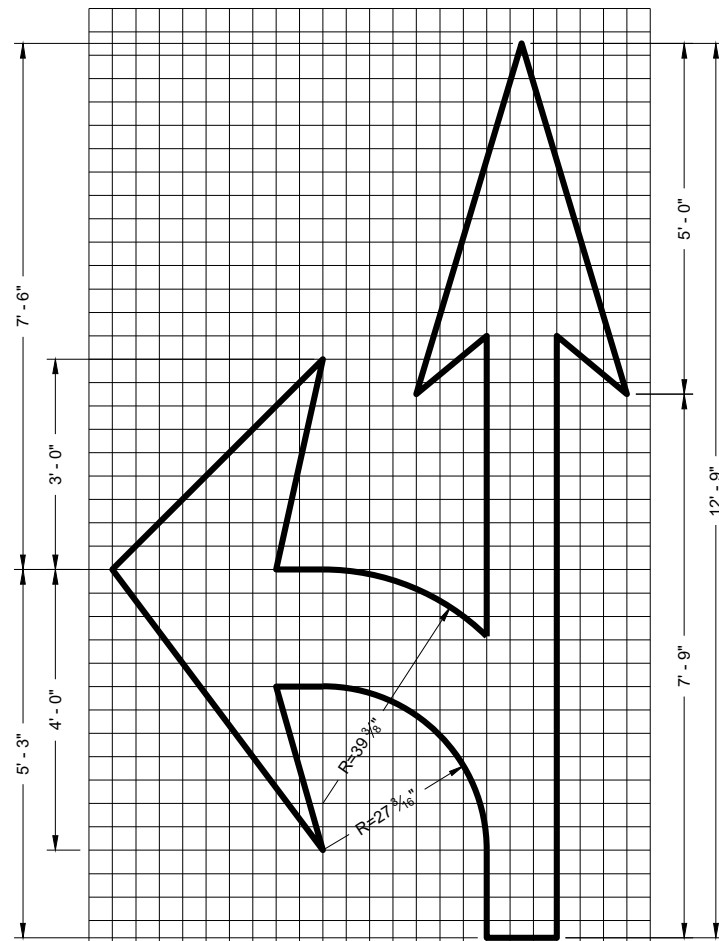
FHWA



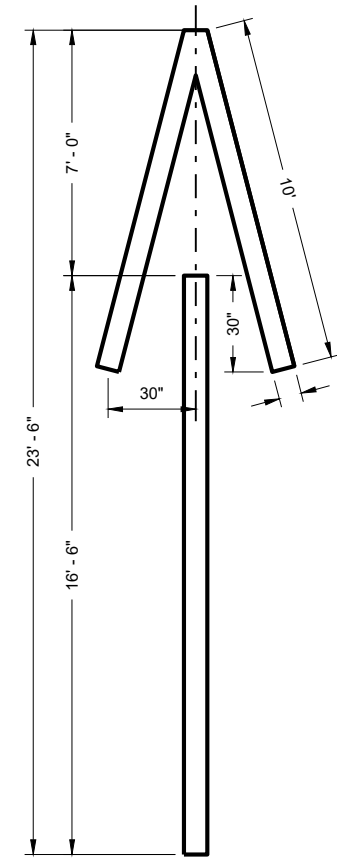
TYPE 1



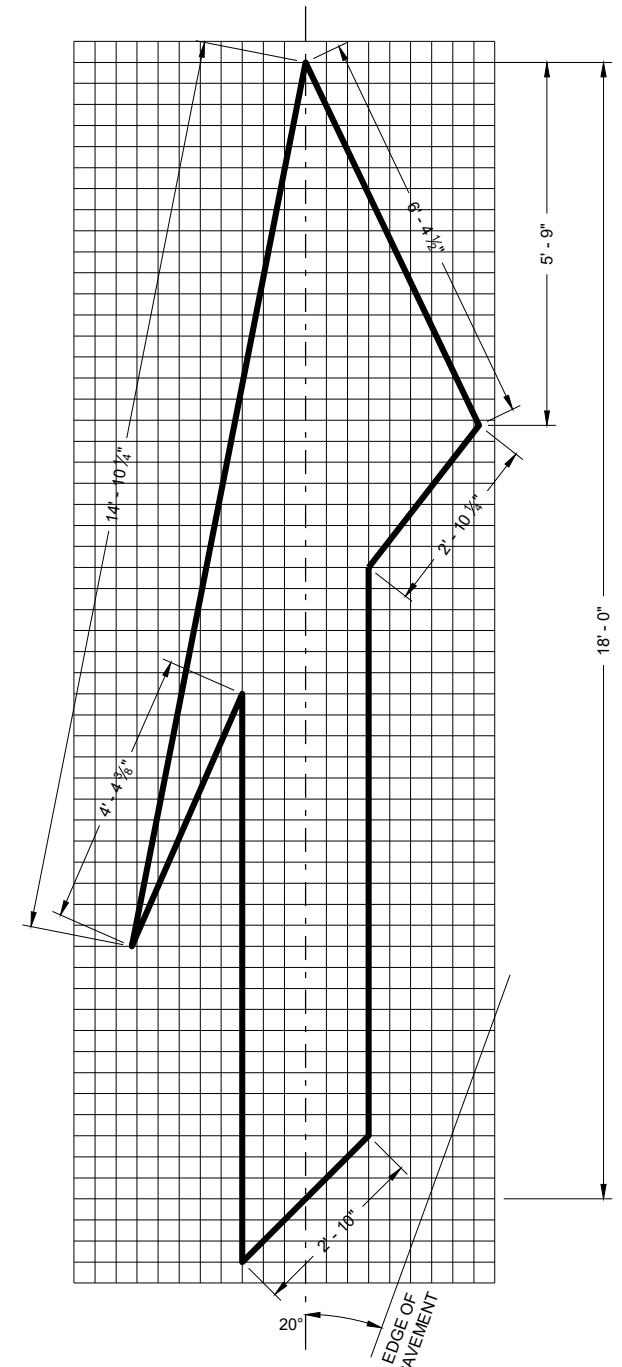
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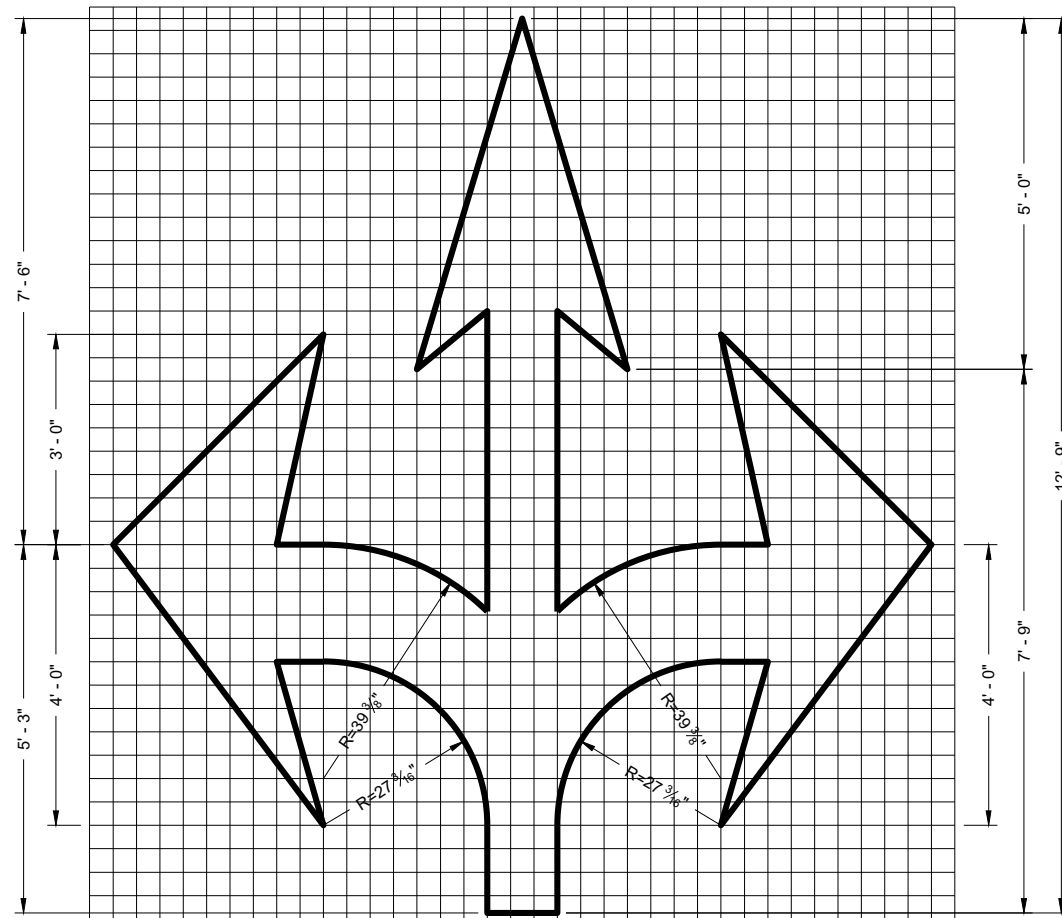
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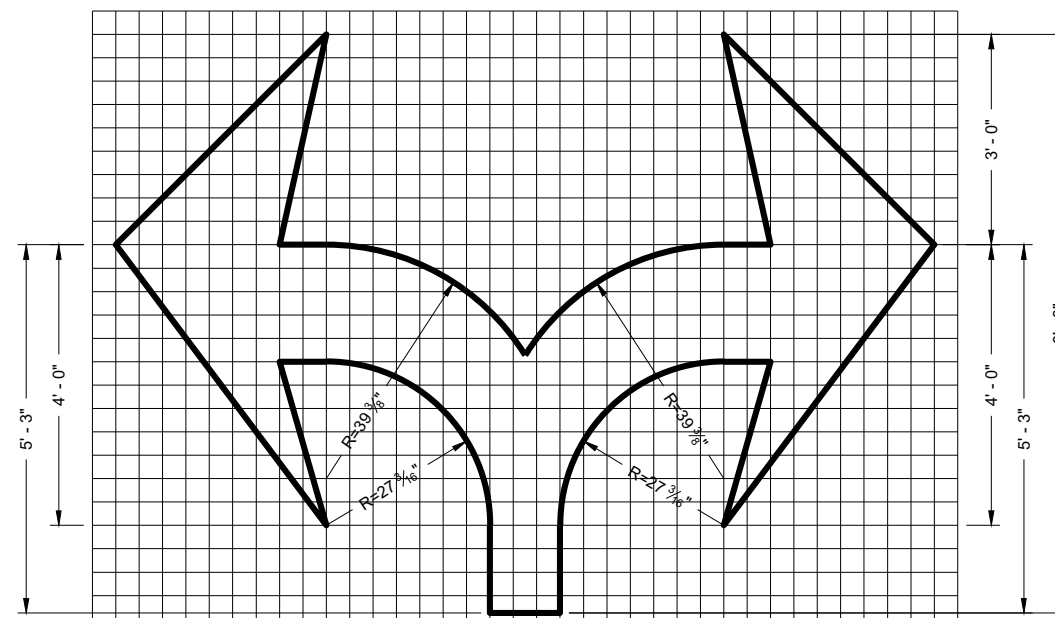
TYPE 4



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
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APPROVED

November 2019

DATE

FHWA




/s/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

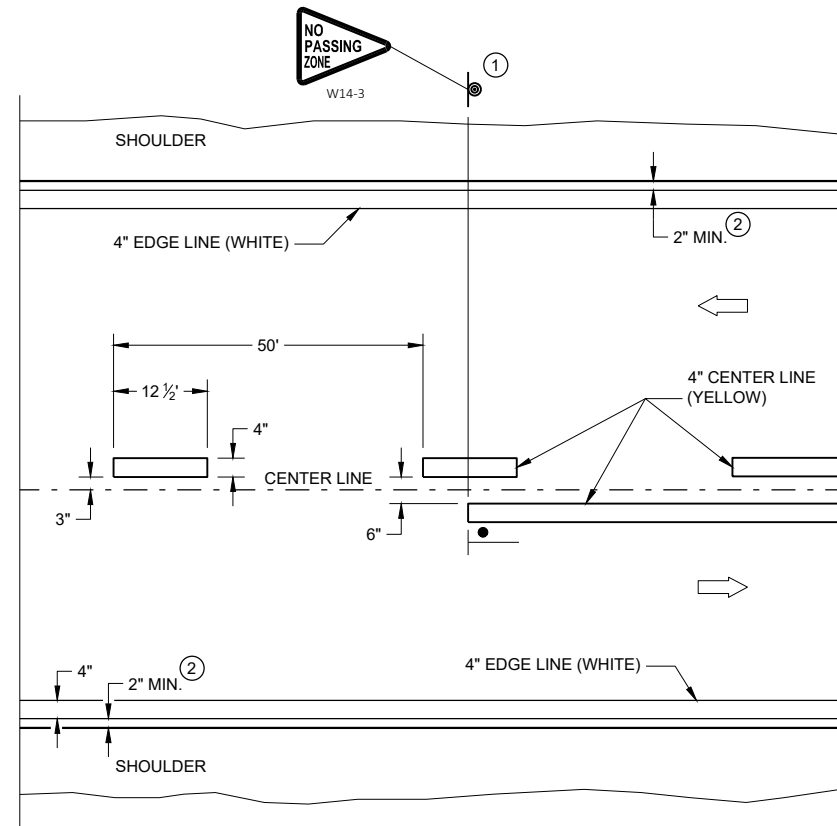
GENERAL NOTES

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

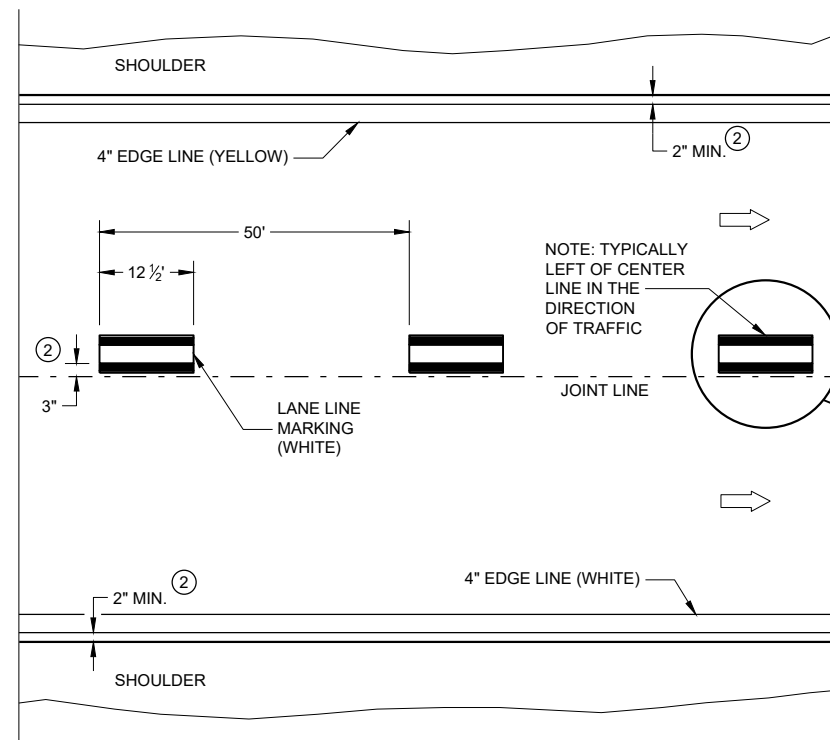
- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

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

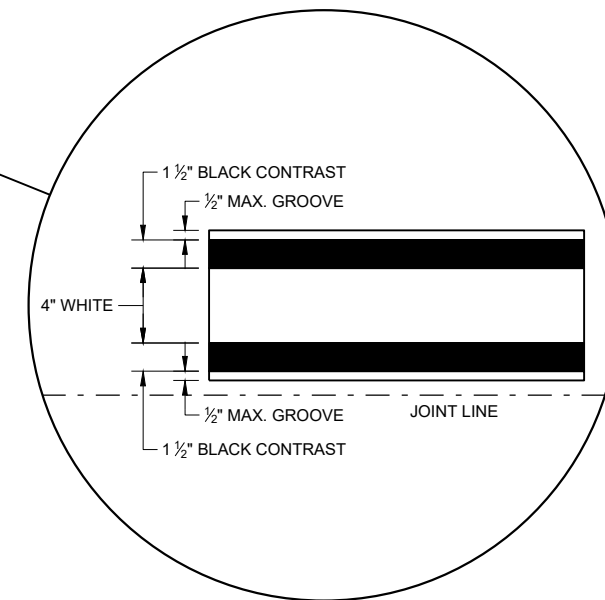


TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



PERMANENT LONGITUDINAL PAVEMENT MARKINGS

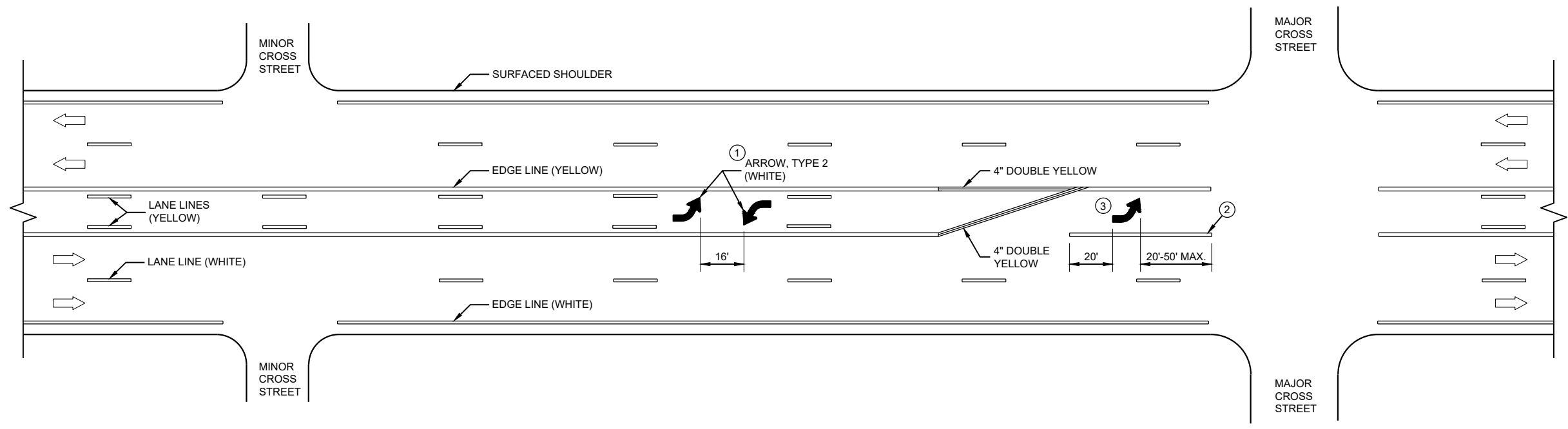
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE: May 2022 /S/ Jeannie Silver
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 8" WHITE
- ③ TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

➡ DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

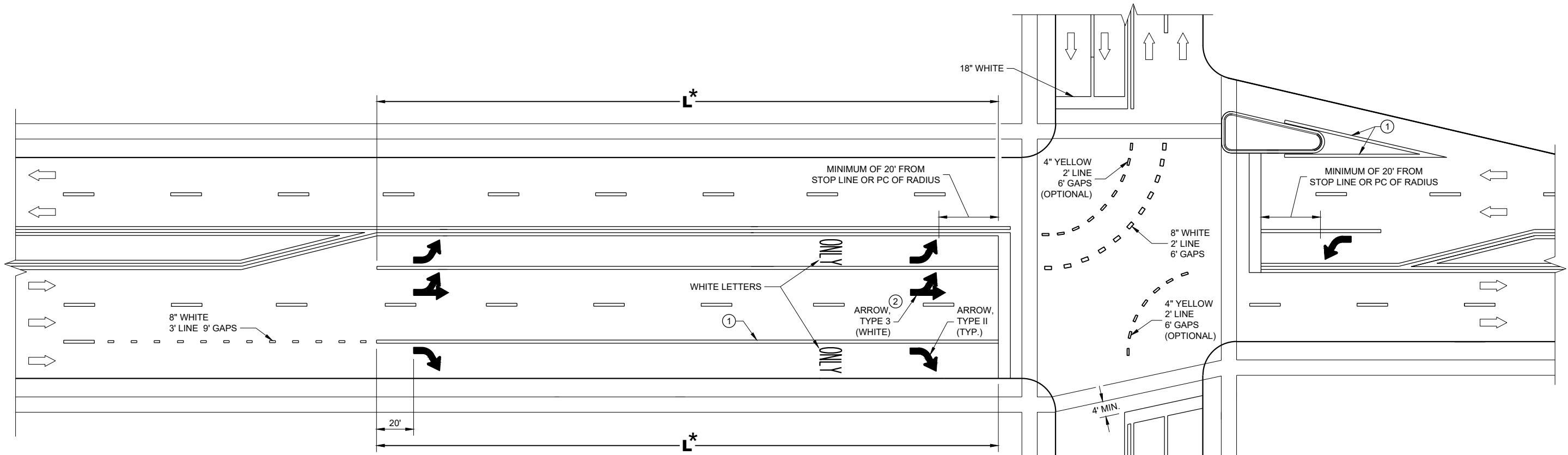
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SDD 15C08 - 21c

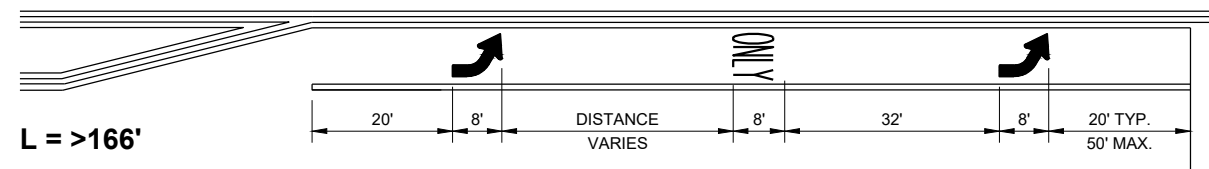
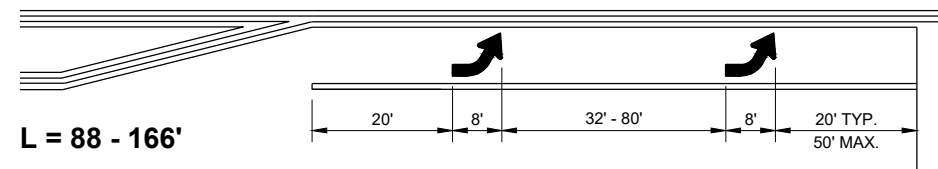
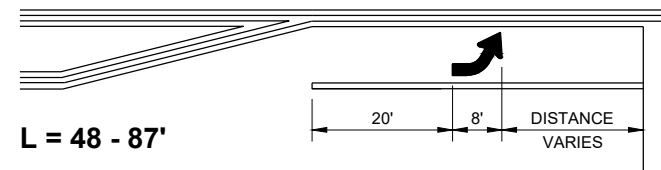
SDD 15C08 - 21c

<p>PAVEMENT MARKING (TURN LANES)</p>
<p>STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</p>



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

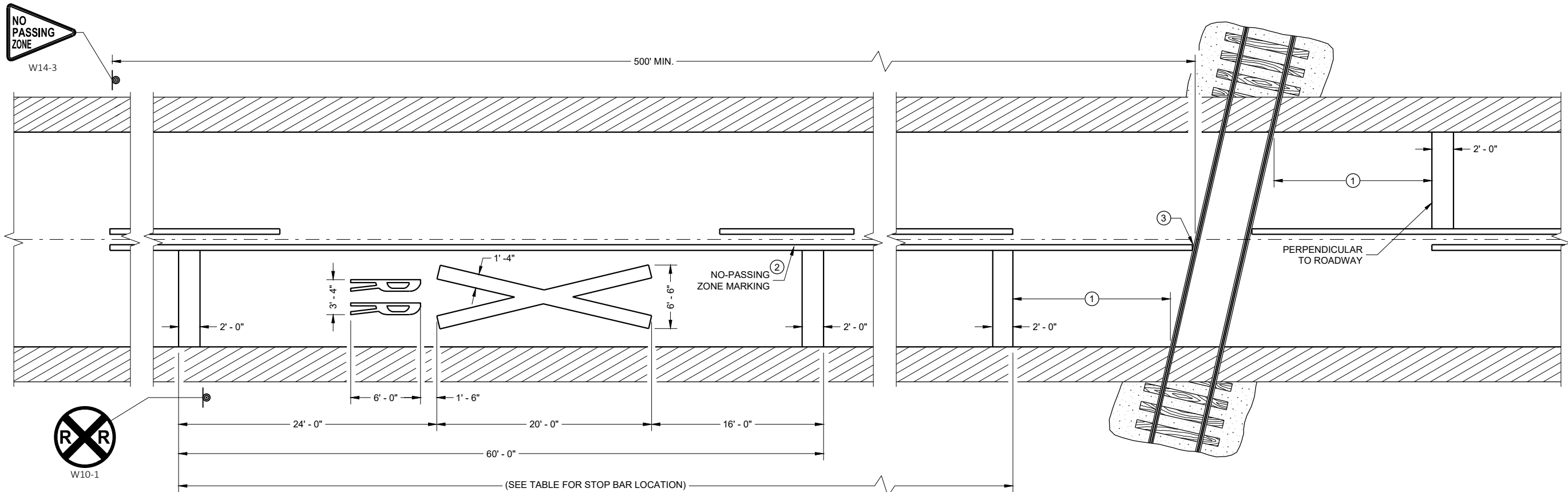
- ① 8" WHITE
- ② QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

➡ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

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.

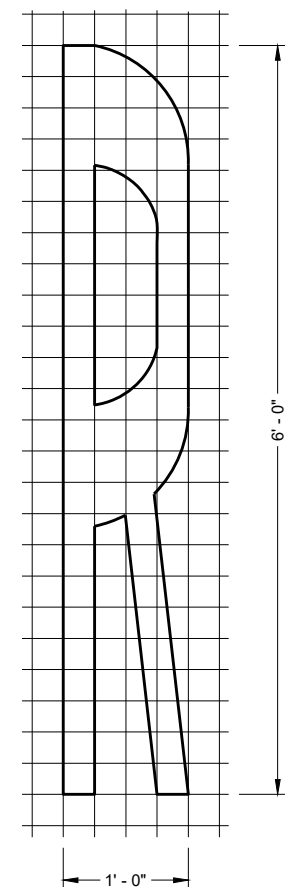
- ① MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNAL , GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.
- ② 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.
- ③ FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE 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'

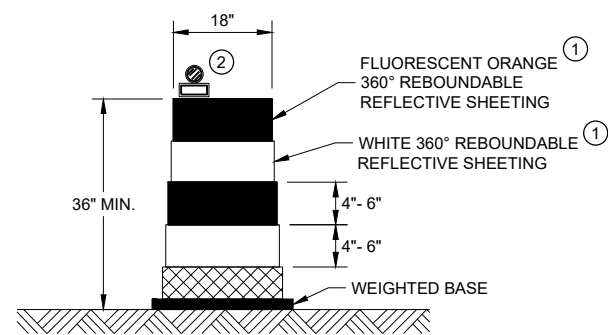
* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSED PROXIMITY OF DRIVEWAYS, BRIDGES, SIDE ROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.



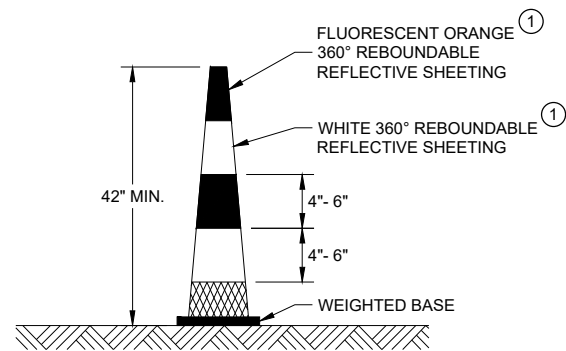
SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 DATE /S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

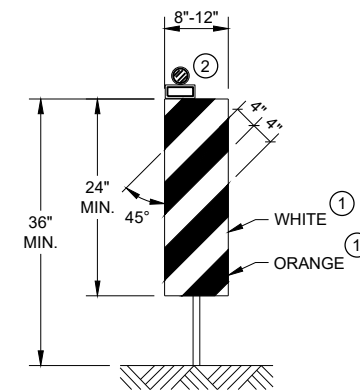


DRUM



42" CONE

DO NOT USE IN TAPERS
 1/2 SPACING OF DRUMS

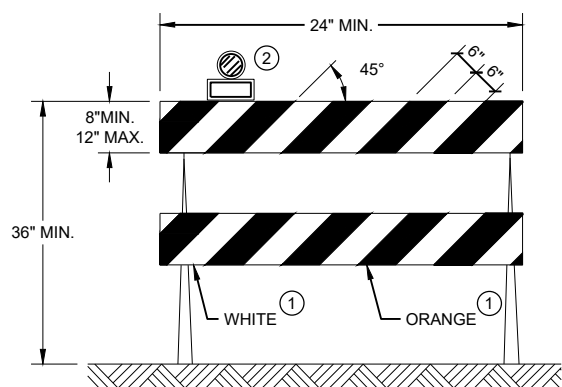


VERTICAL PANEL

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

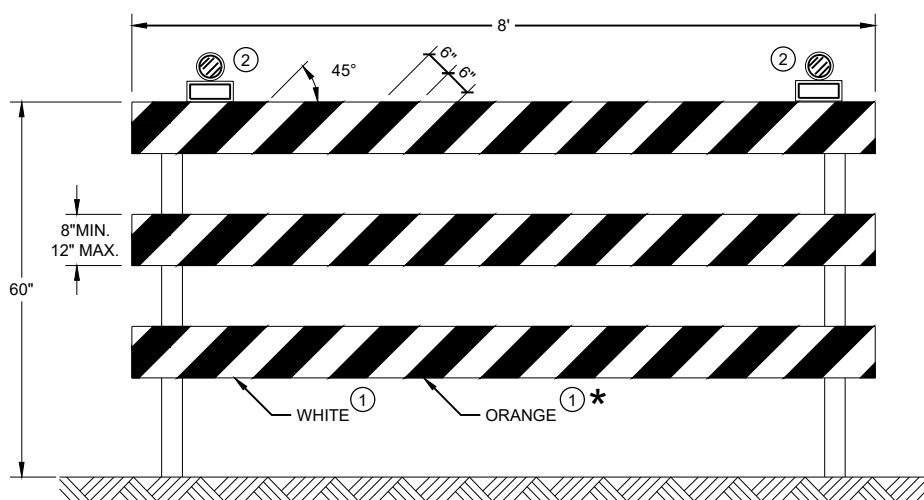
GENERAL NOTES

- 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 May 2021 DATE	/S/ Andrew Heidtke 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.

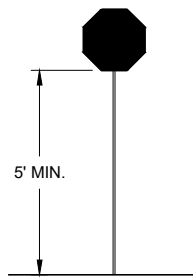
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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.



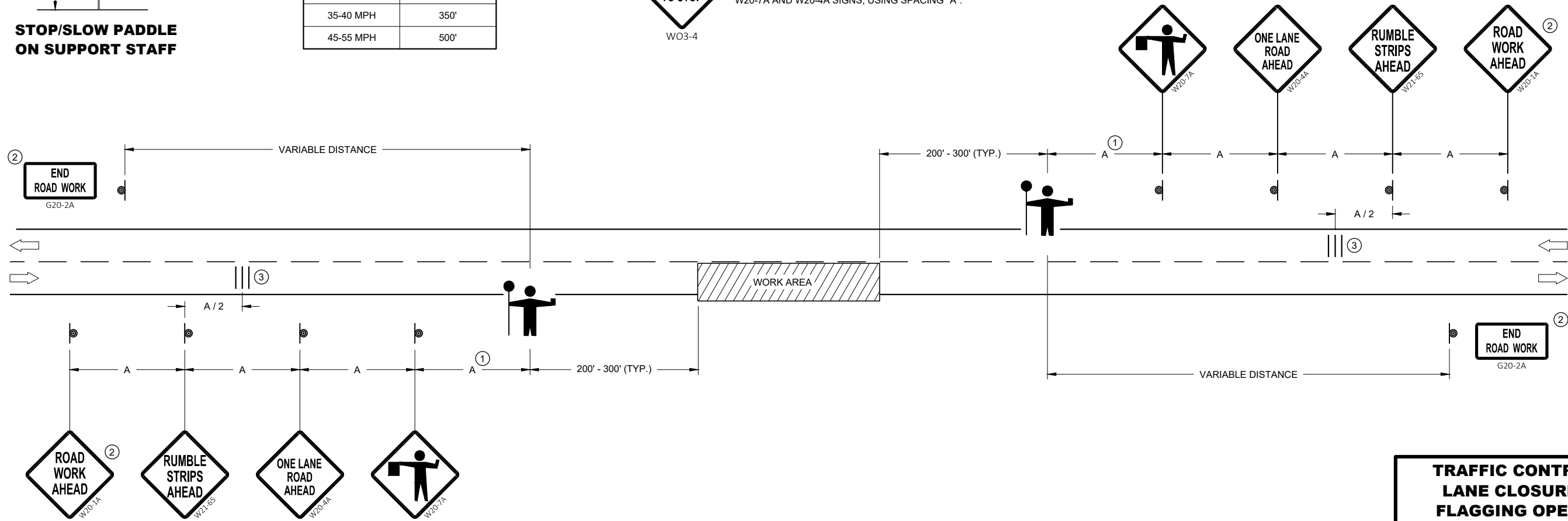
STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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



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".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

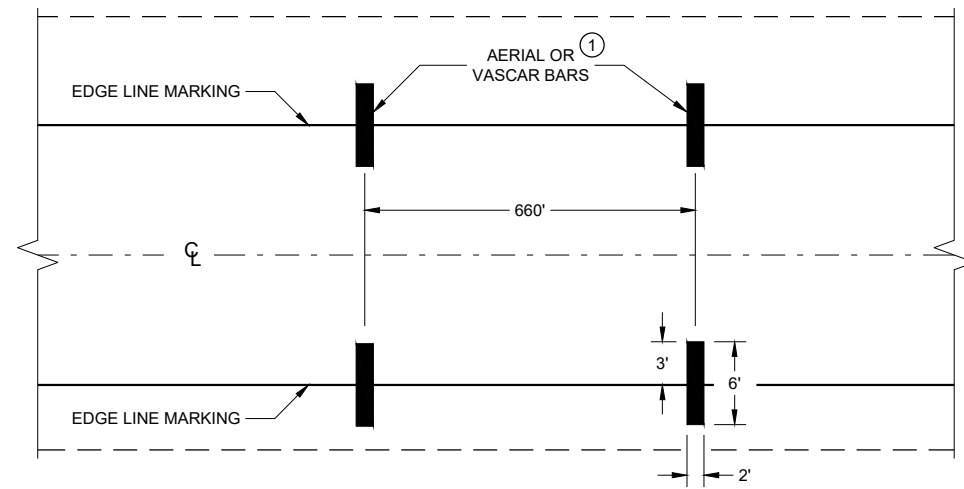
APPROVED
DATE: May 2022 /S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

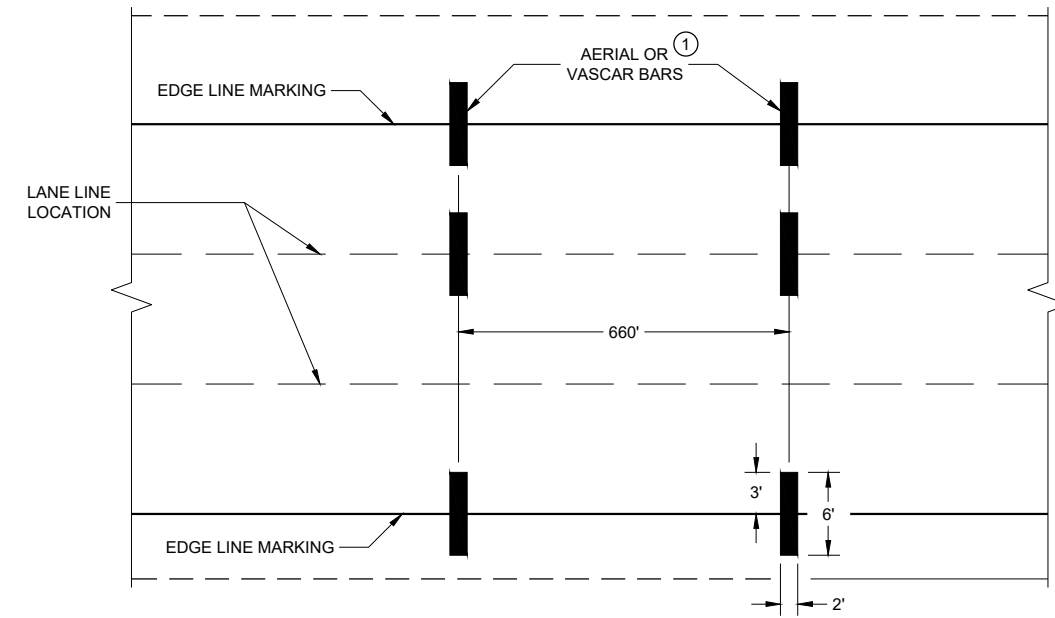
GENERAL NOTES

① PLACE TWO TO FIVE AERIAL OR VASCAR BARS AT 660 FOOT SPACING.

A CAR CAN BE PROVIDED BY THE WISCONSIN STATE PATROL FOR TRAFFIC CONTROL.



TYPICAL FOR TWO WAY OR ONE WAY TRAFFIC



TYPICAL FOR MULTILANE TRAFFIC

SPEED ENFORCEMENT ZONE WITH AERIAL OR VASCAR BARS

**AERIAL ENFORCEMENT BARS
PAVEMENT MARKING DETAILS**

STATE OF WISCONSIN
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APPROVED
February 2021 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING
ENGINEER

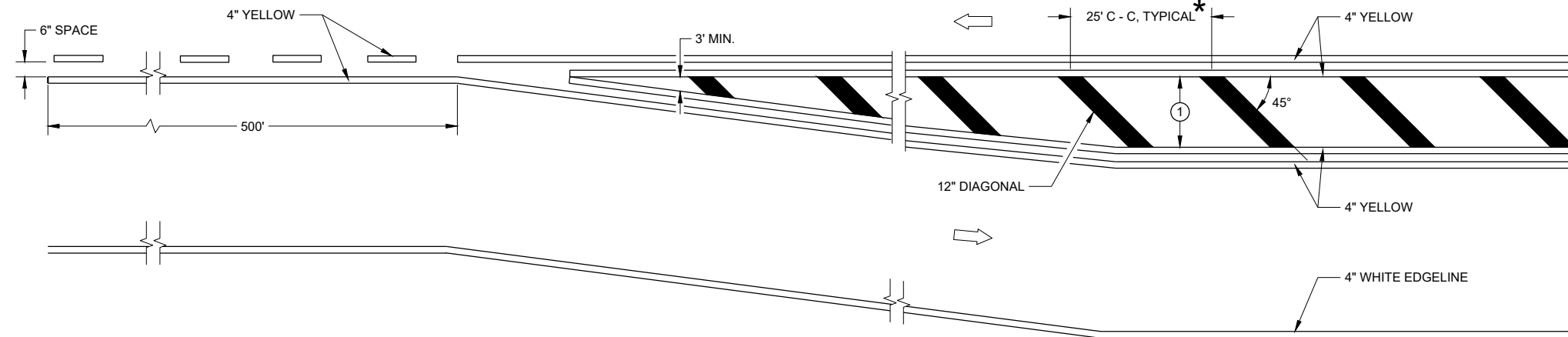
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GENERAL NOTES

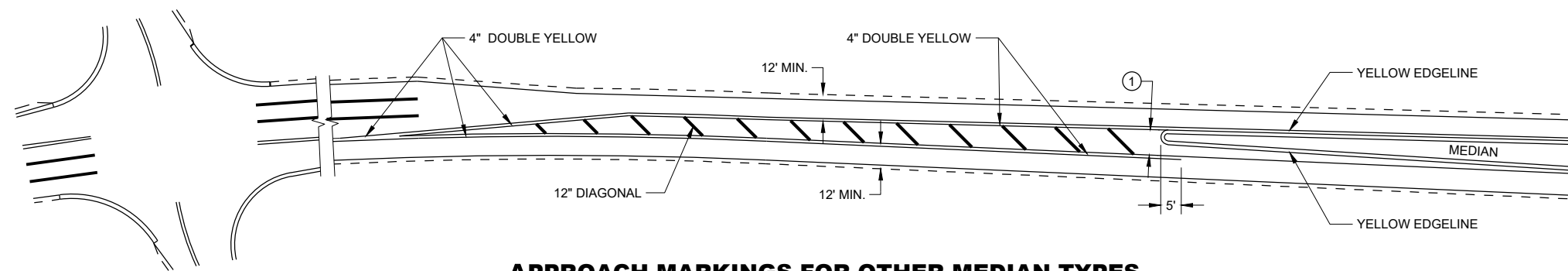
- ① DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

➔ DIRECTION OF TRAVEL

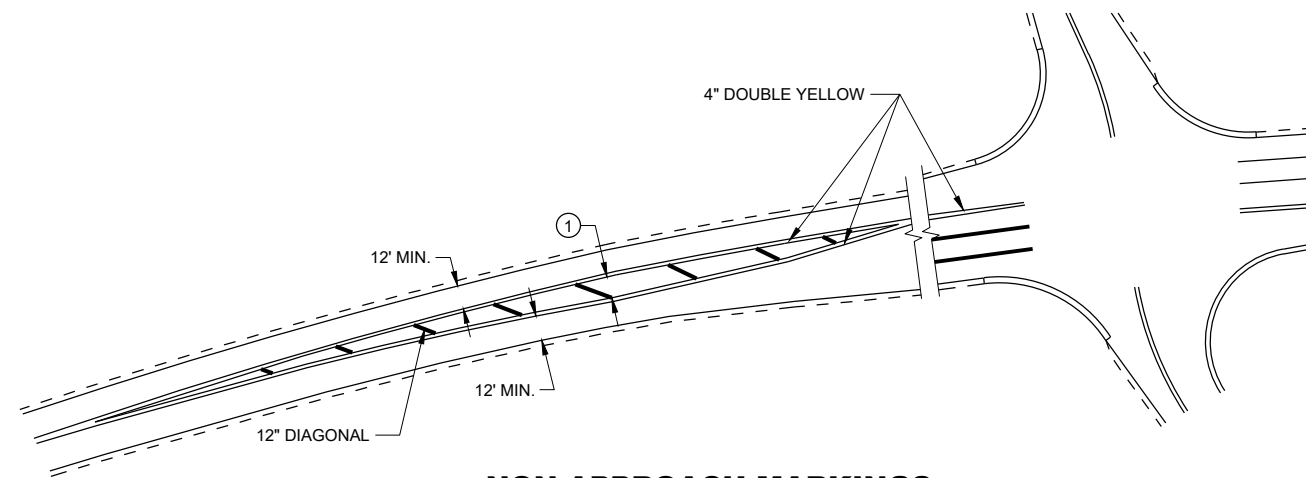
* WHEN THE PAINTED MEDIAN LENGTH IS LESS THAN 50 FEET THE SPACING IS 10'.



MEDIAN ISLAND DETAIL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

6

6

SDD 15C18 - 06a

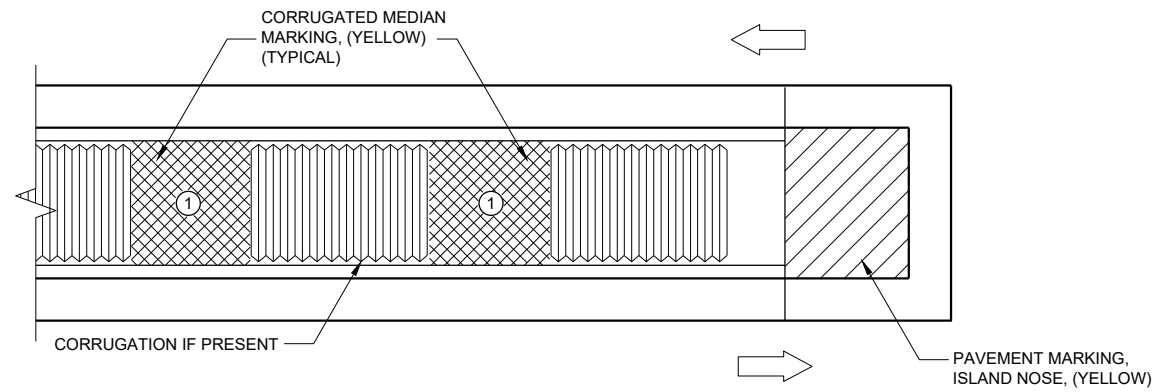
SDD 15C18 - 06a

**MEDIAN ISLAND
PAVEMENT MARKINGS**

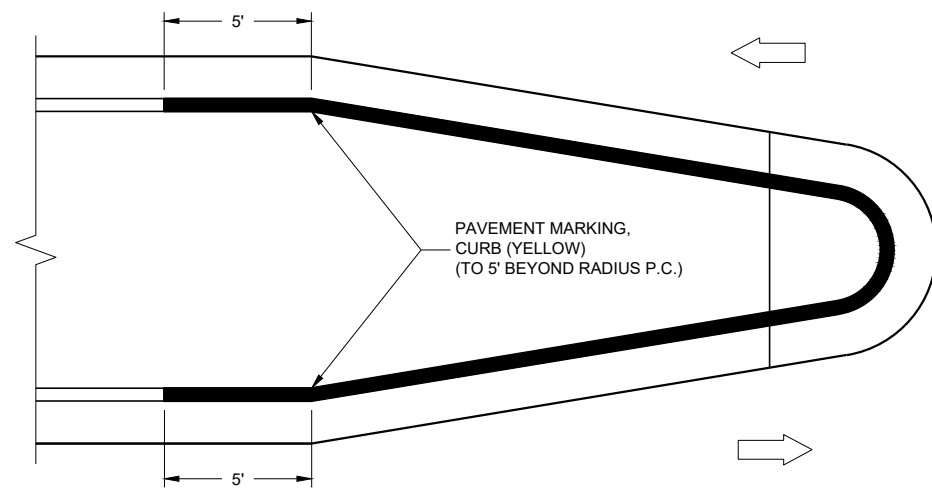
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 DATE /S/ Jeannie Silver
STATE SIGNING AND MARKING ENGINEER

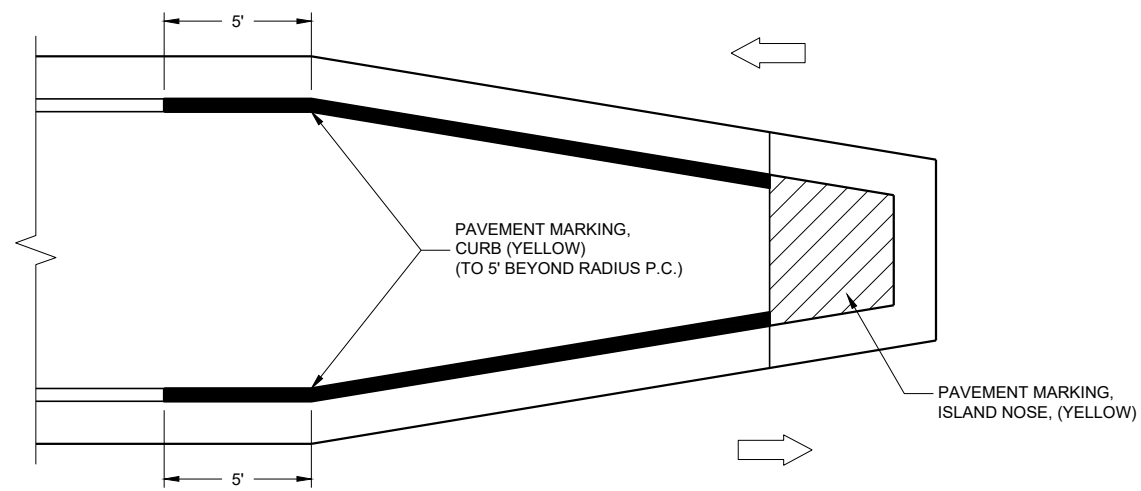
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MEDIAN ISLAND WITH SQUARE BLUNT NOSE



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 2022 /S/ Jeannie Silver
DATE STATE SIGNING AND MARKING
ENGINEER

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.

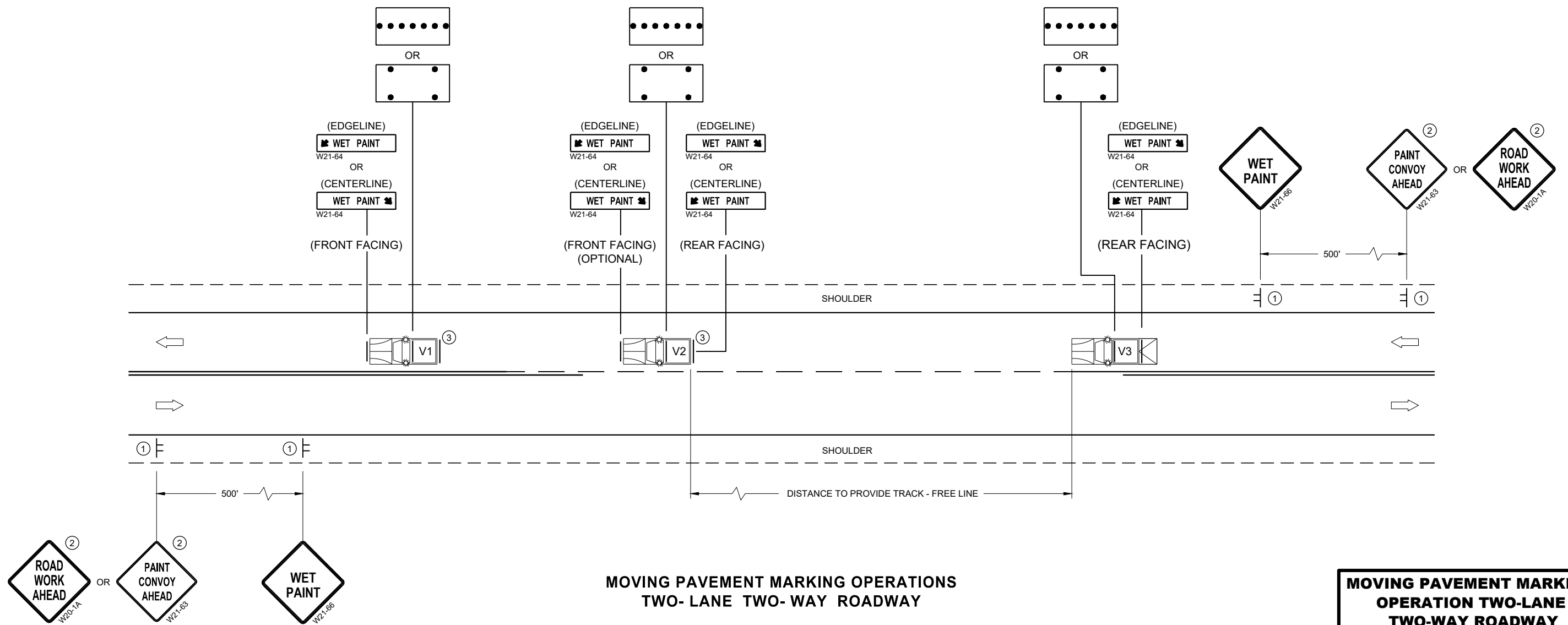
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

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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SDD 15C19 - 07a

SDD 15C19 - 07a

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






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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE: May 2022 /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.

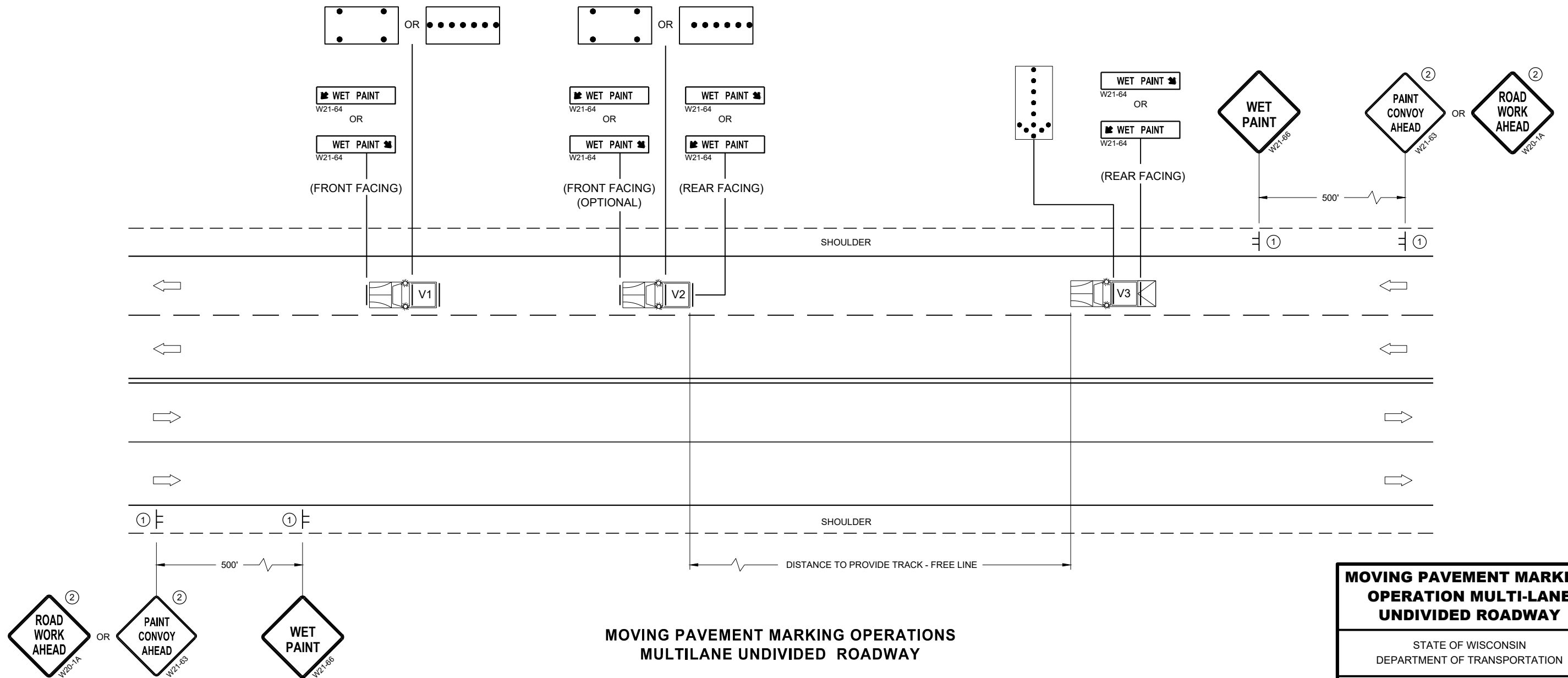
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLES AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

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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



**MOVING PAVEMENT MARKING OPERATIONS
MULTILANE UNDIVIDED ROADWAY**

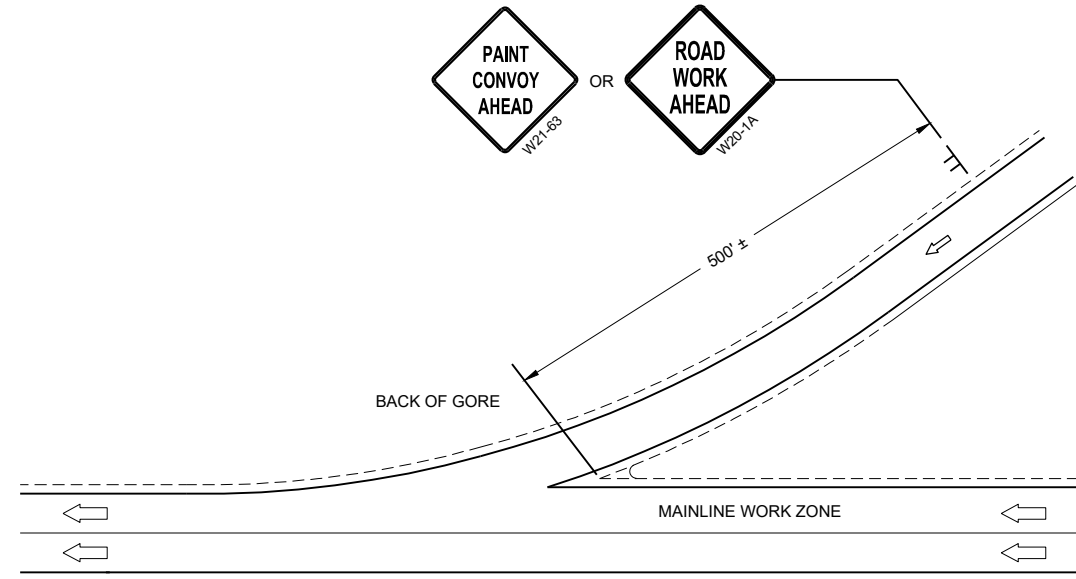
MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2022 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

SDD 15C19 - 07b

SDD 15C19 - 07b

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

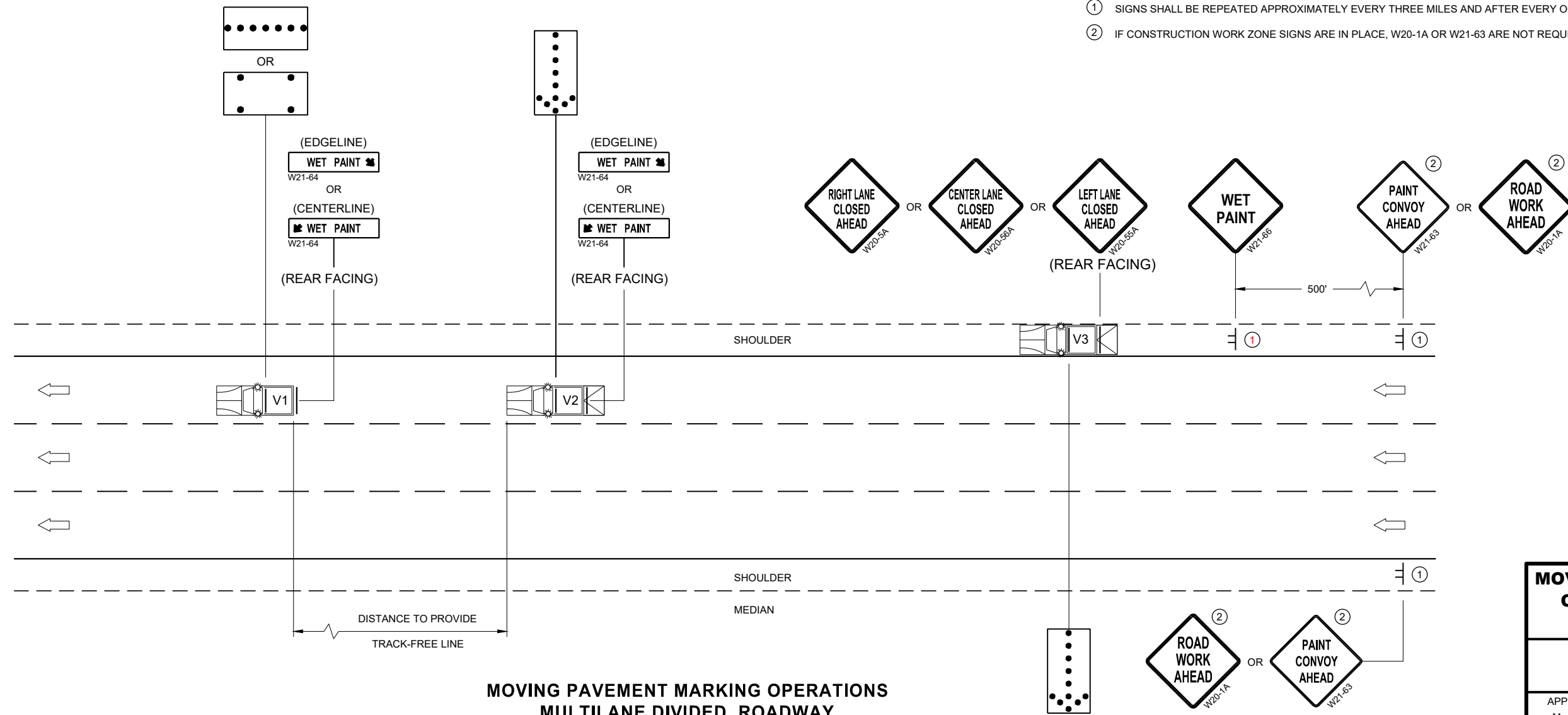
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

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.

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SDD 15C19 - 07C

SDD 15C19 - 07C

**MOVING PAVEMENT MARKING OPERATIONS
MULTILANE DIVIDED ROADWAY**

**MOVING PAVEMENT MARKING
OPERATION MULTI-LANE
DIVIDED ROADWAY**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

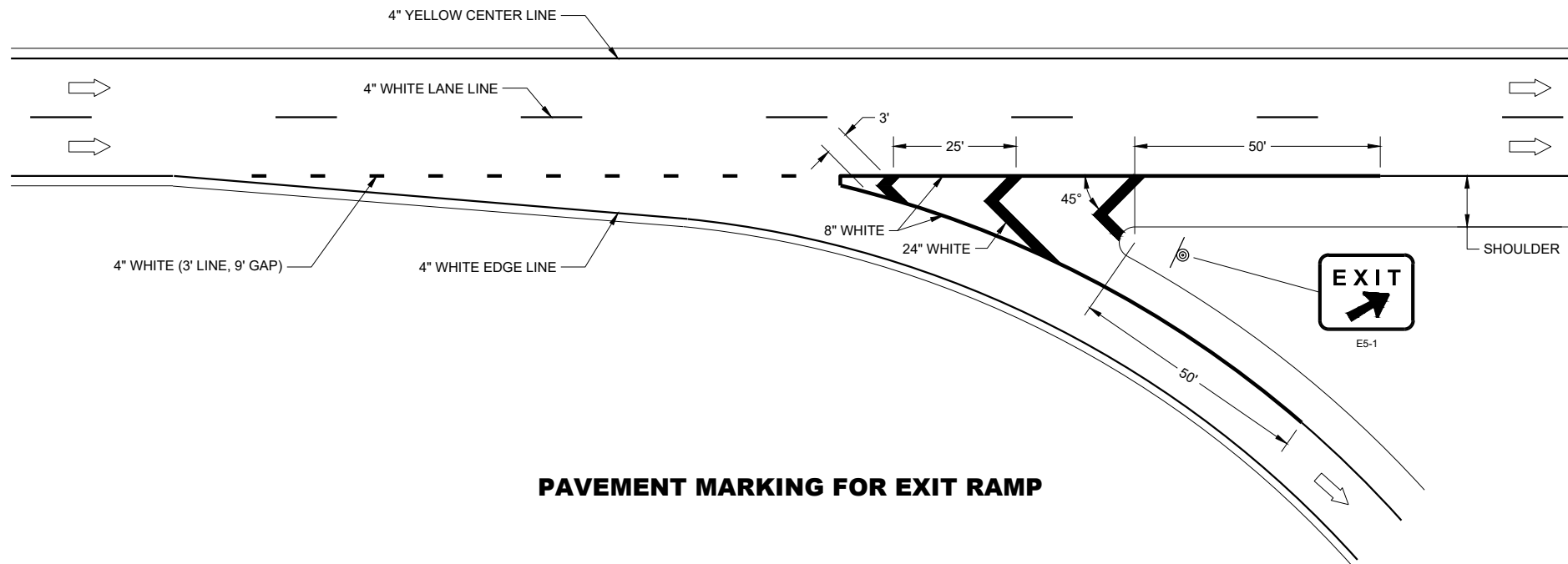
FHWA

GENERAL NOTES

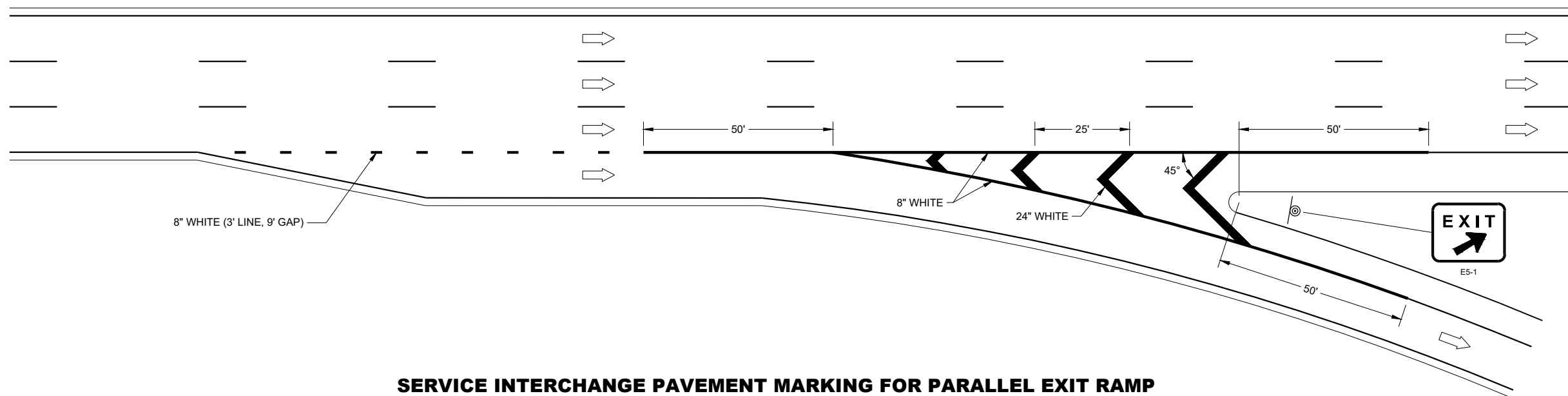
PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAVEL



PAVEMENT MARKING FOR EXIT RAMP



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT RAMP

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

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SDD 15C31 - 04a

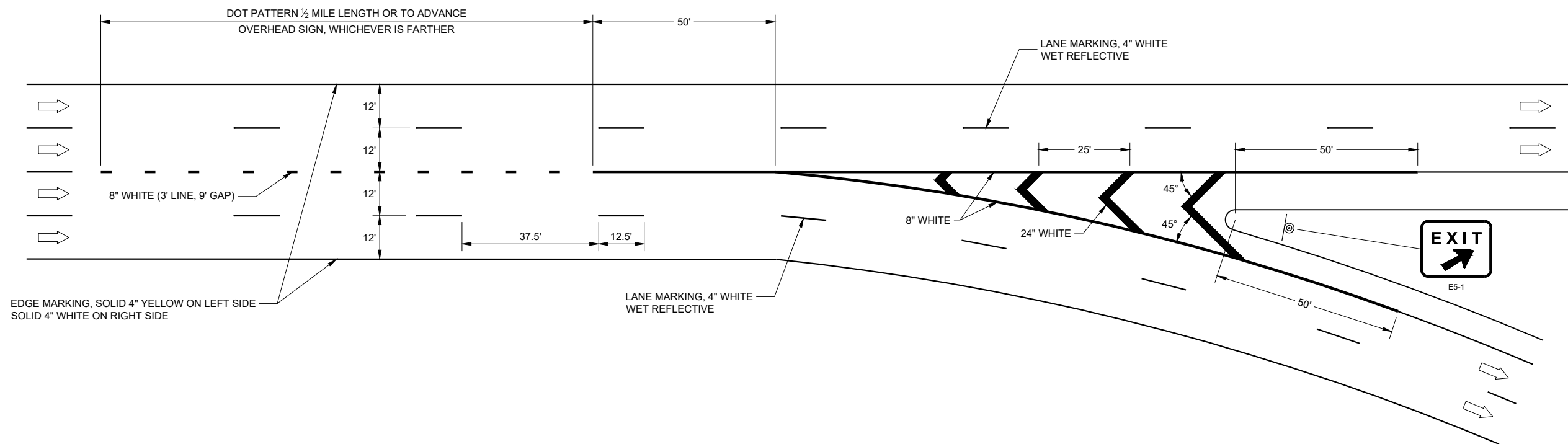
SDD 15C31 - 04a

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAVEL



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SDD 15C31 - 04b

SDD 15C31 - 04b

**PAVEMENT MARKING,
MAJOR SPLIT
FREEWAY TO FREEWAY**

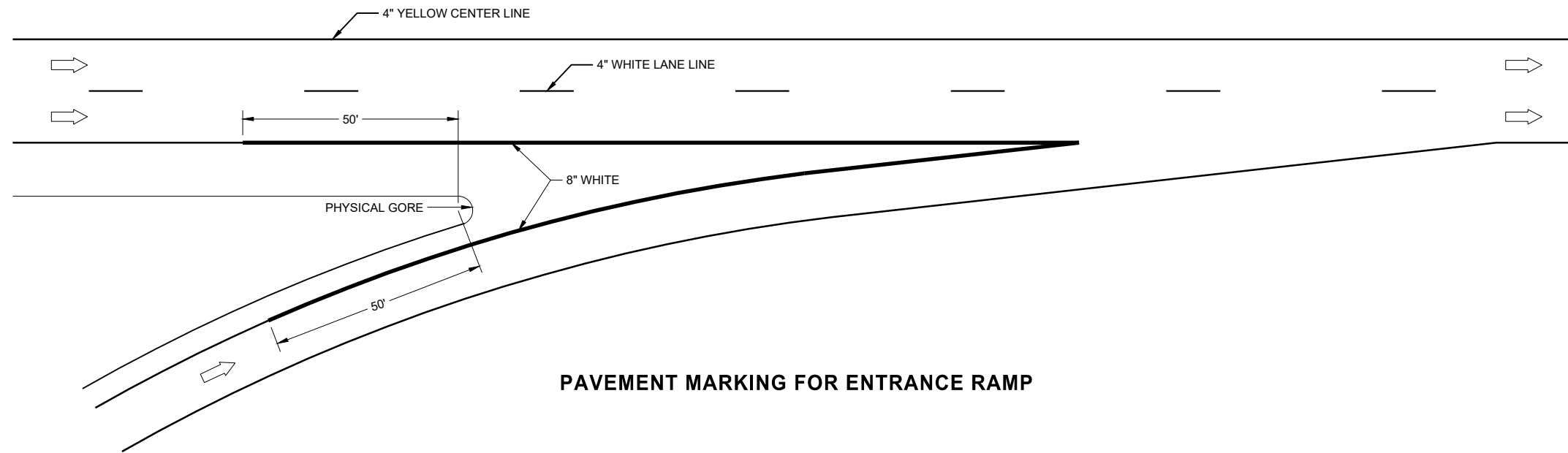
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

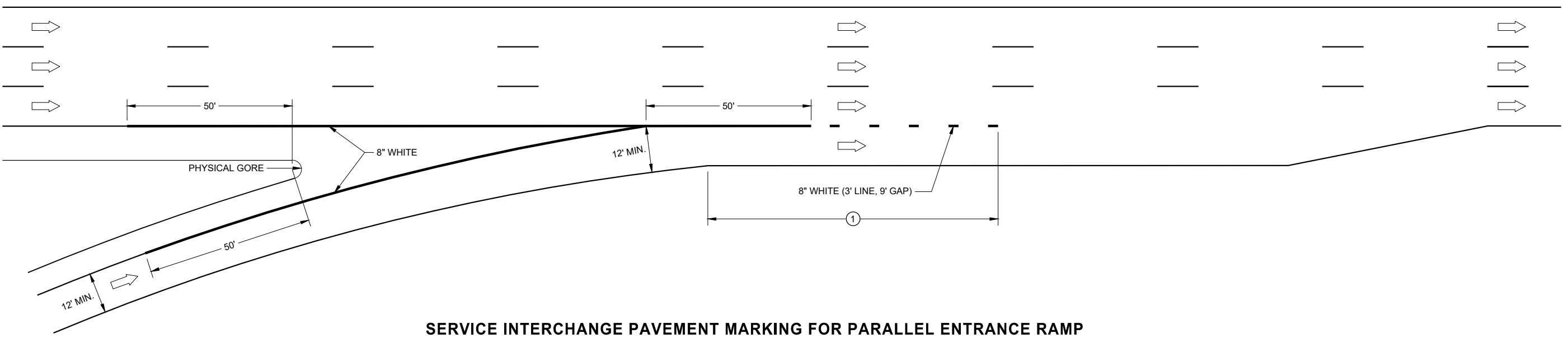
- PLACE GROOVE 3 INCHES LEFT OF JOINT.
- ① ½ LENGTH OF FULL WIDTH ACCELERATION LANE.

LEGEND

➡ DIRECTION OF TRAVEL



PAVEMENT MARKING FOR ENTRANCE RAMP



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE RAMP

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SDD 14C31 - 04c

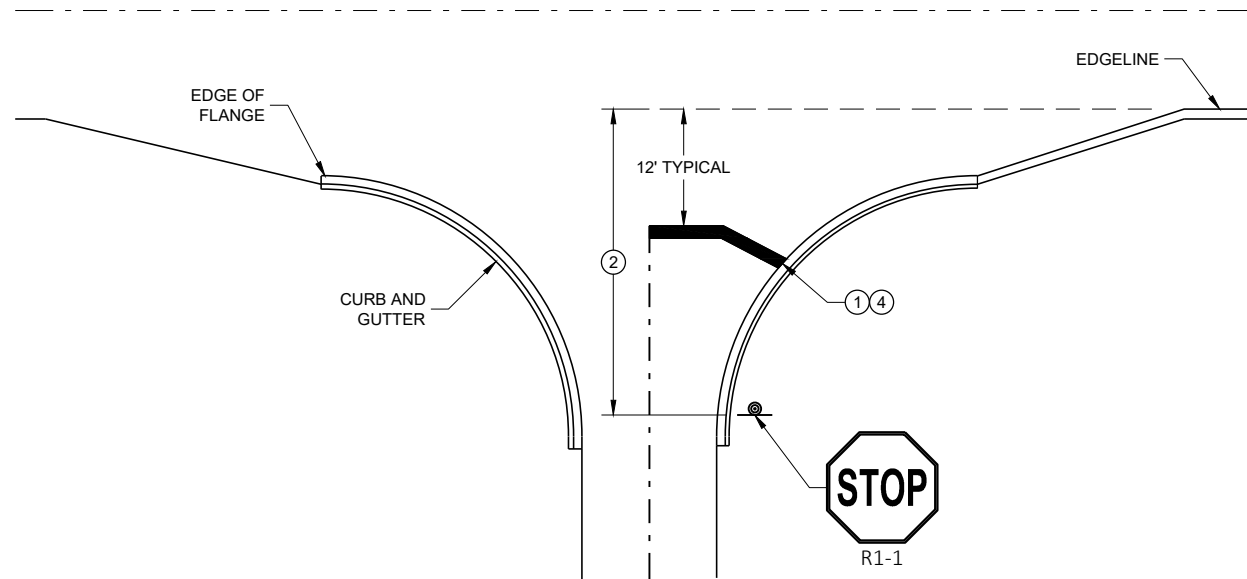
SDD 14C31 - 04c

PAVEMENT MARKING, ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

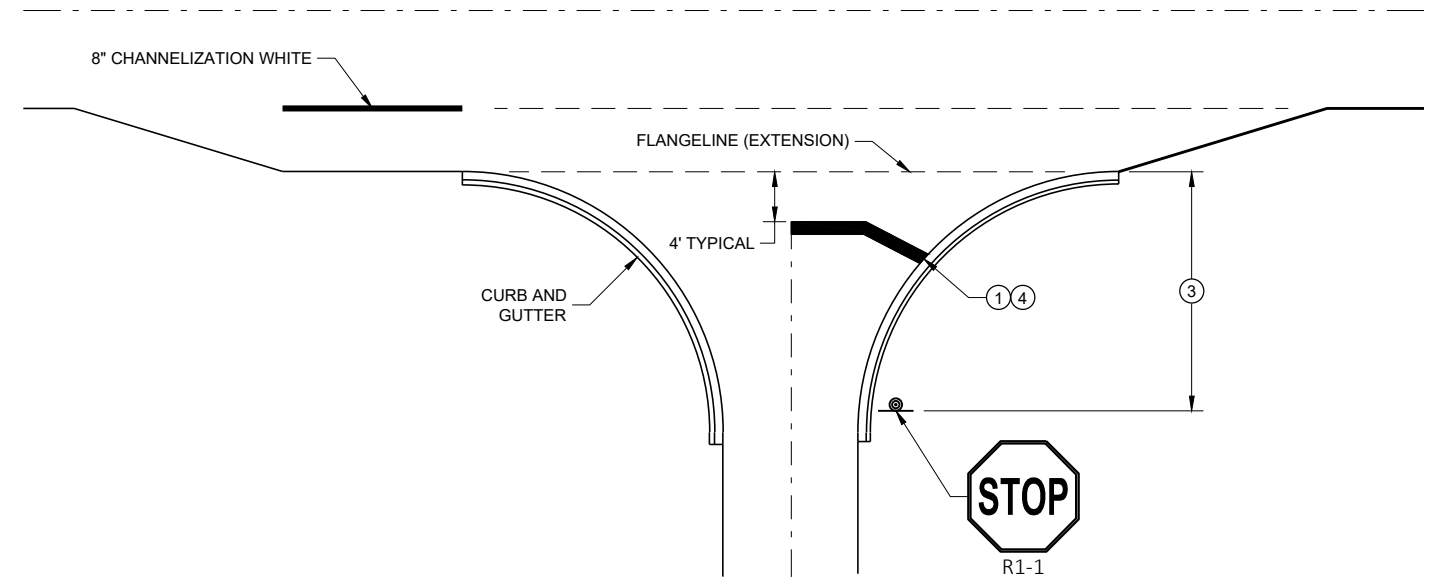
GENERAL NOTES

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

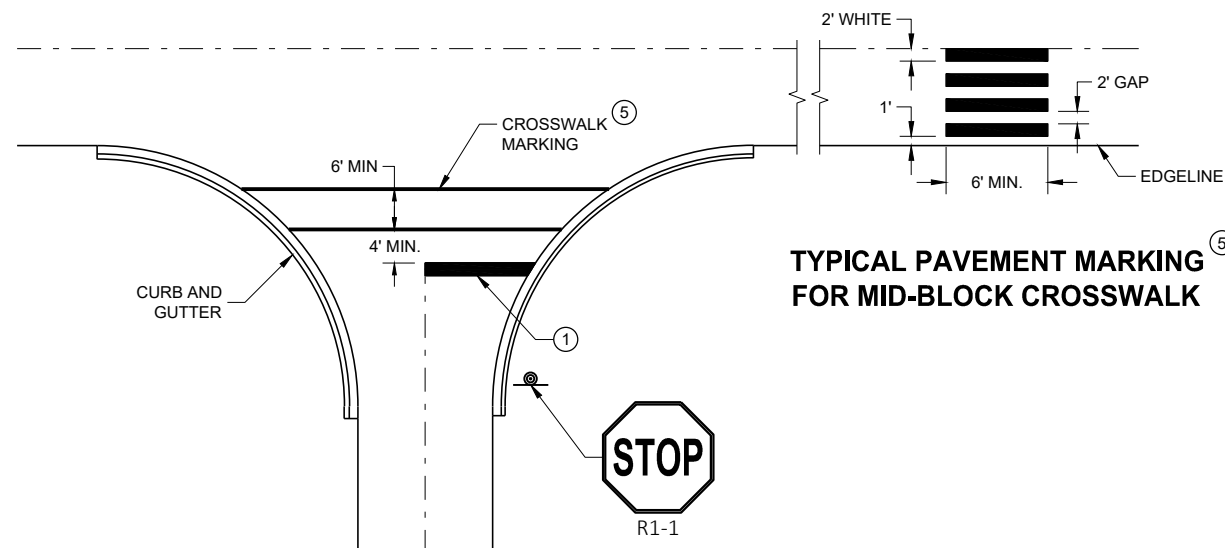
- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
- ③ NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE 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.



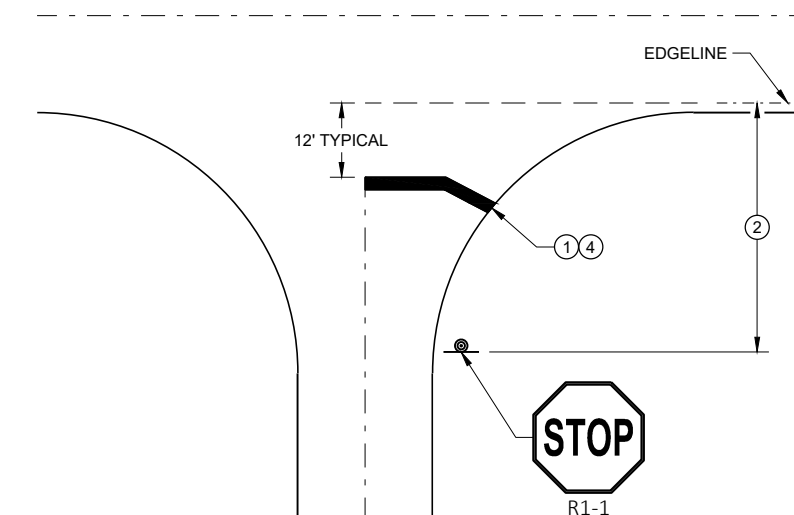
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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

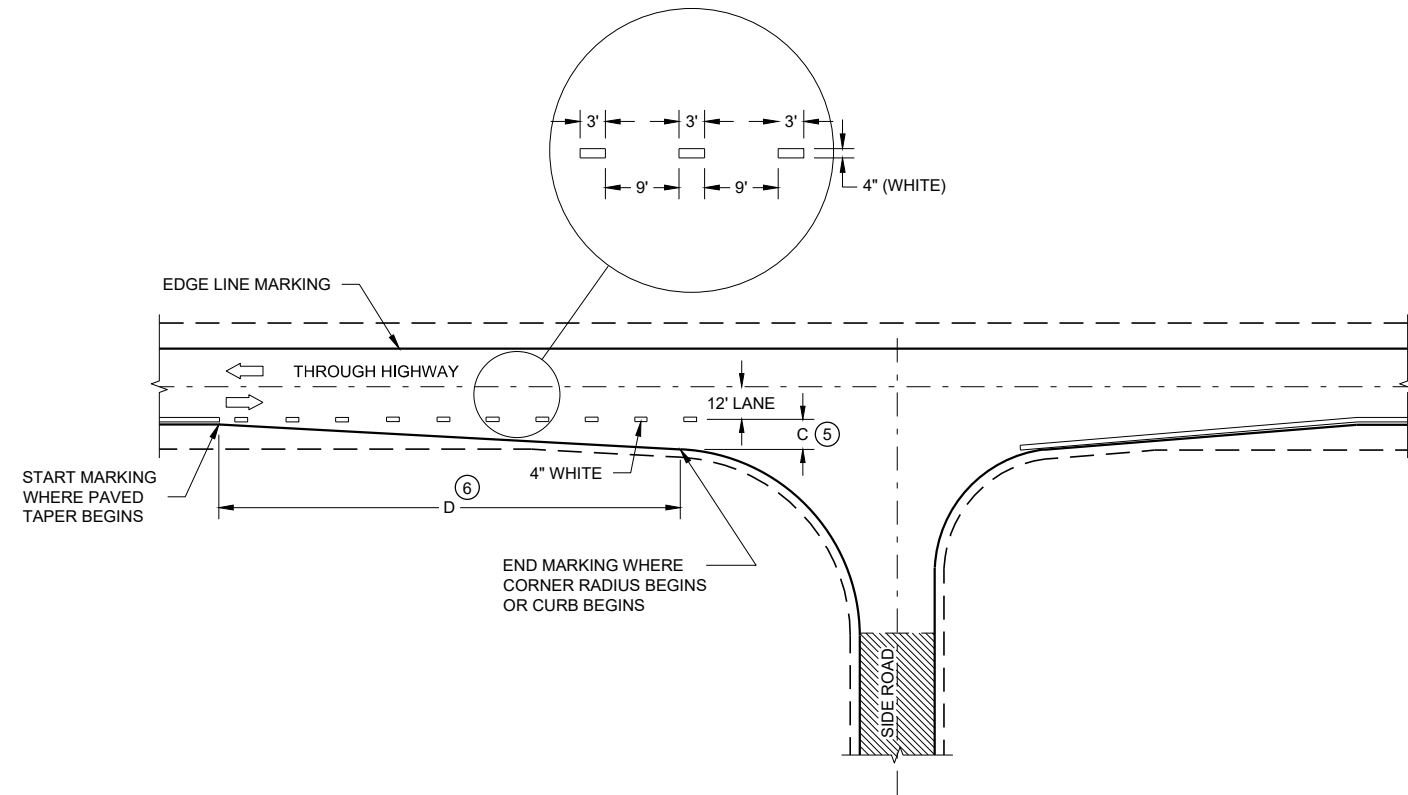
GENERAL NOTES

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

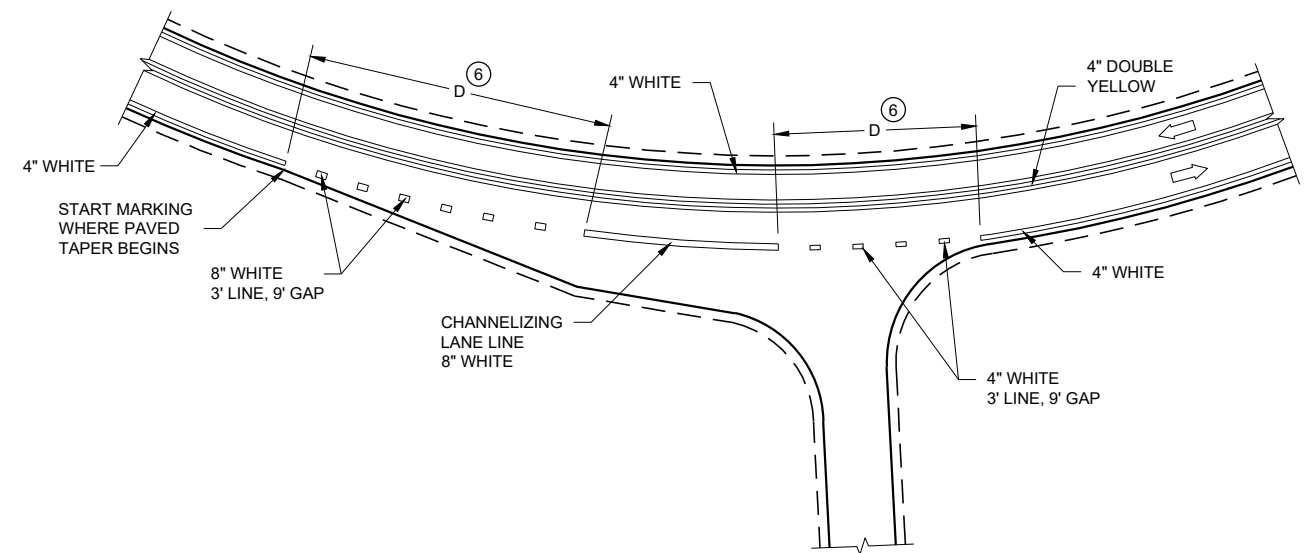
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
- ⑤ WHEN DISTANCE "C" IS LESS THAN 4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

LEGEND

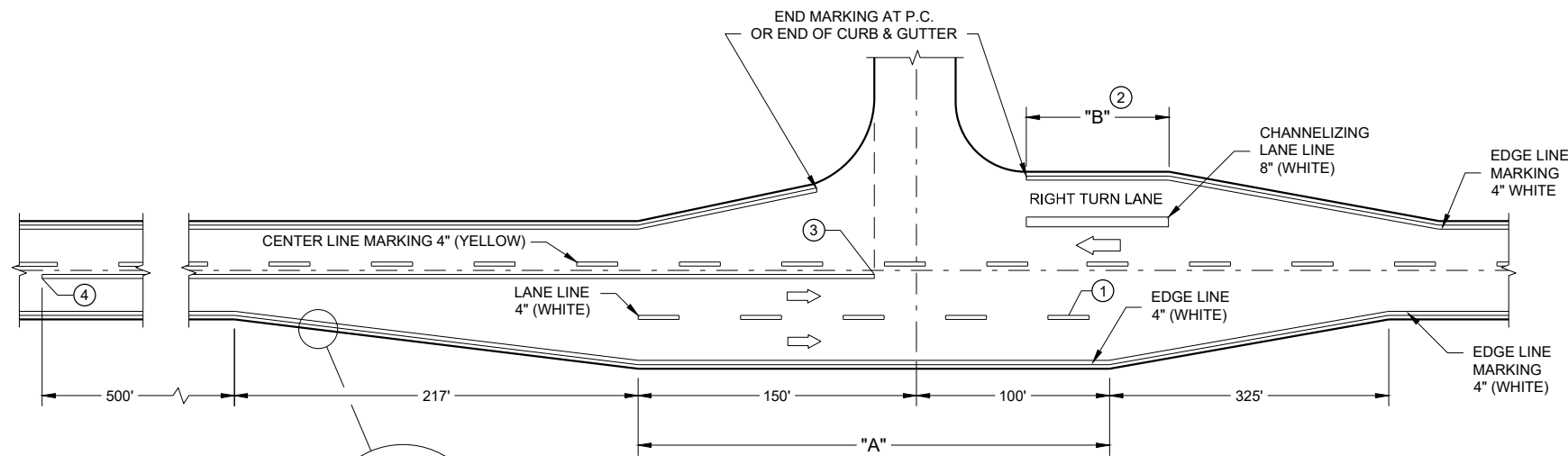
➔ DIRECTION OF TRAVEL



MINOR INTERSECTION

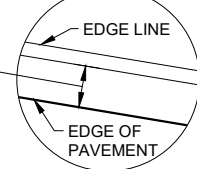


INTERSECTION ON OUTSIDE OF CURVE



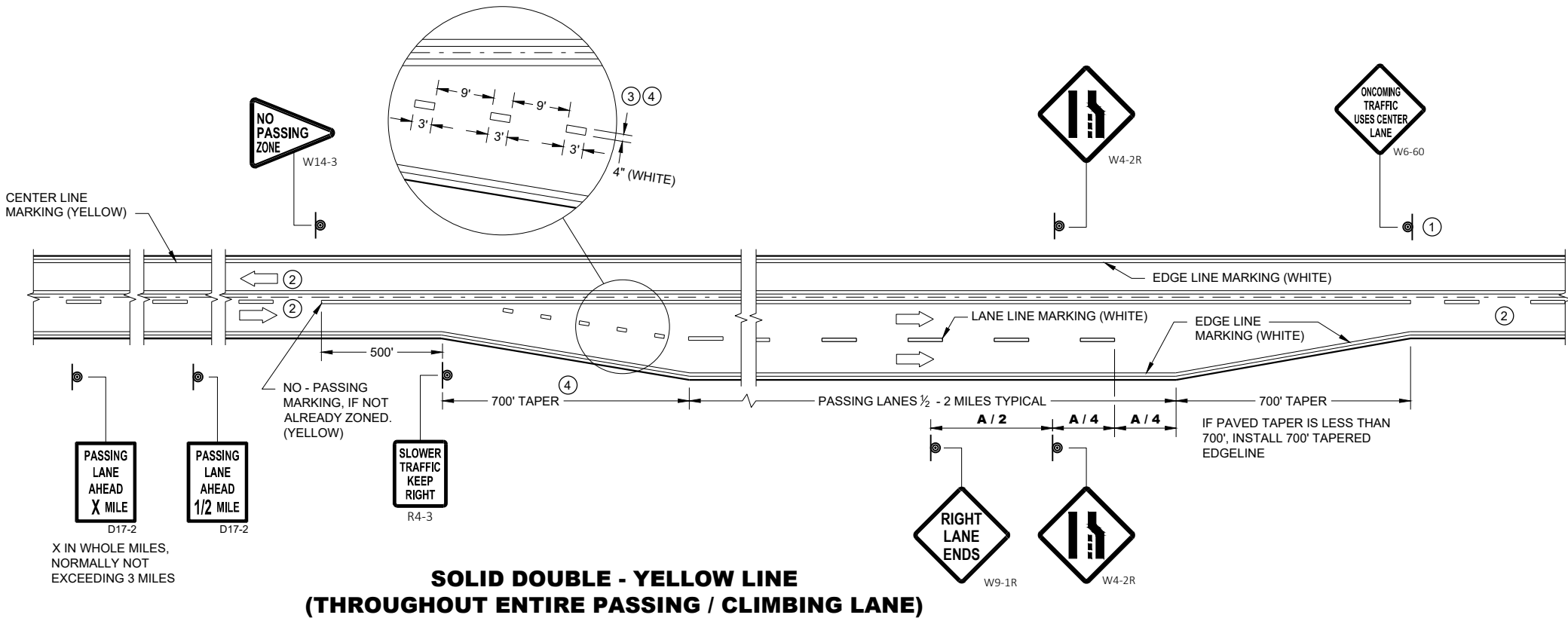
**MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)**

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



**PAVEMENT MARKING
(INTERSECTIONS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



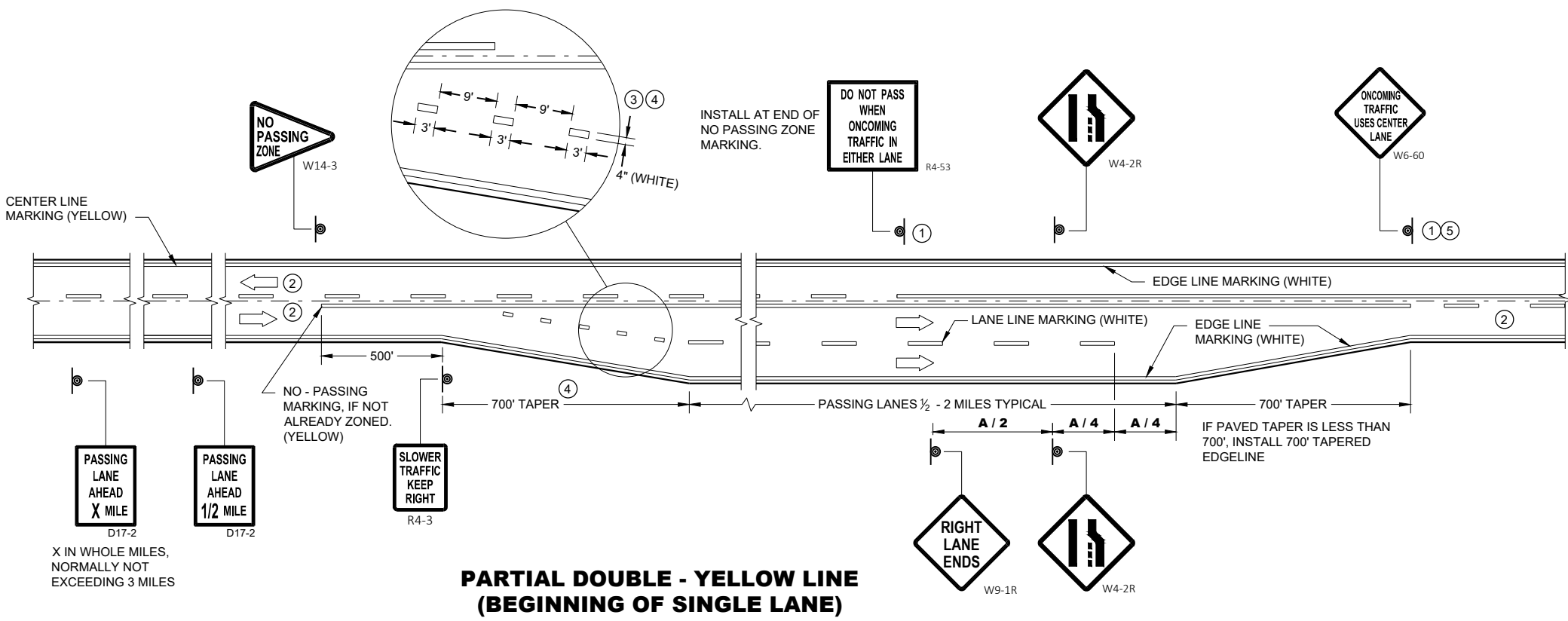
GENERAL NOTES

- SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- 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.
- 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.
- REPEAT EVERY 1 MILE UP UNTIL R4-53.

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

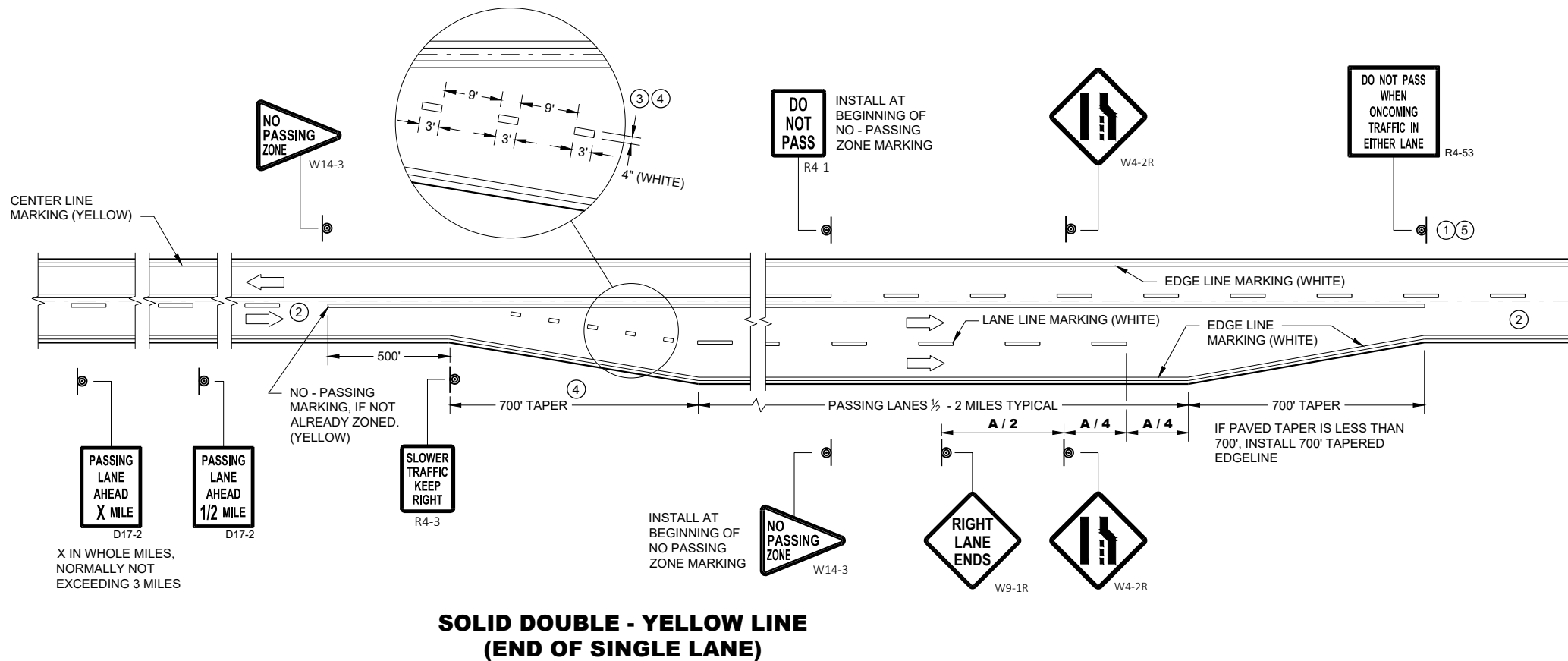
DISTANCE TABLE

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

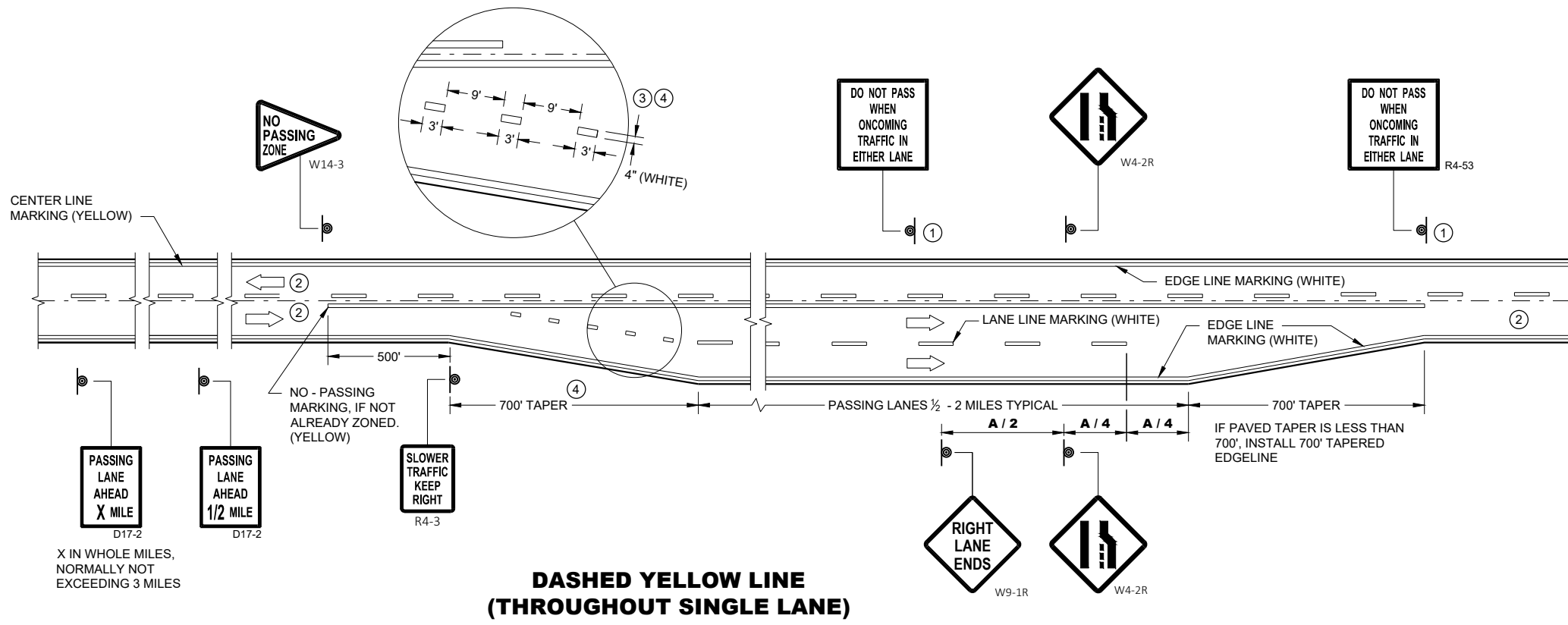


**PAVEMENT MARKING & SIGNING
(CLIMBING LANE & PASSING LANE)**

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE: May 2022 /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.

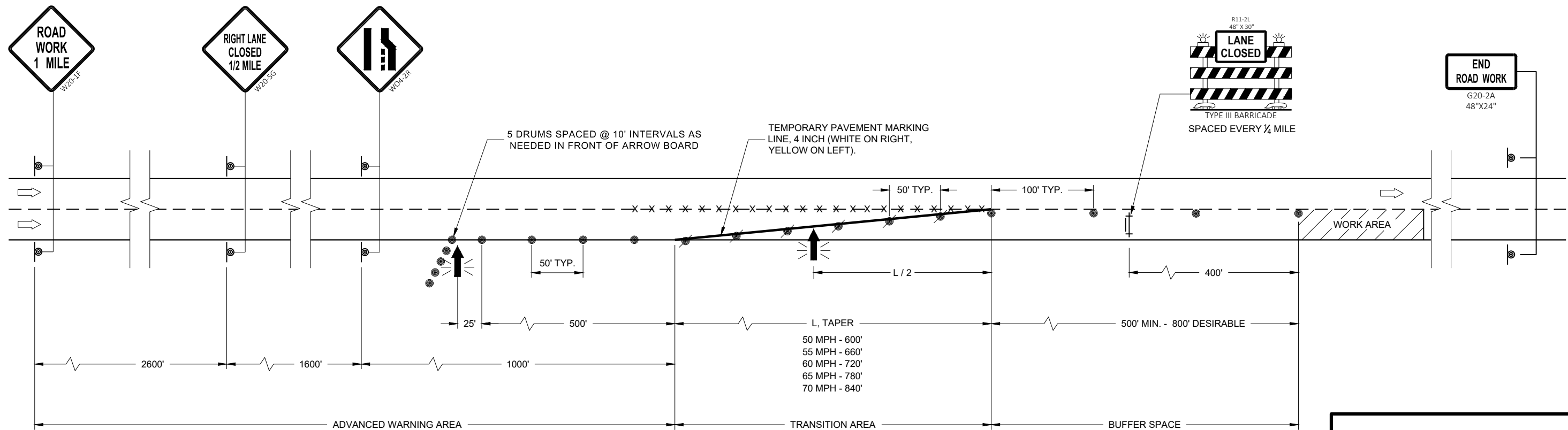
CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

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

6

SDD 15D12 - 10a












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SDD 15D12 - 10a

TRAFFIC CONTROL LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2022 DATE	/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"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.

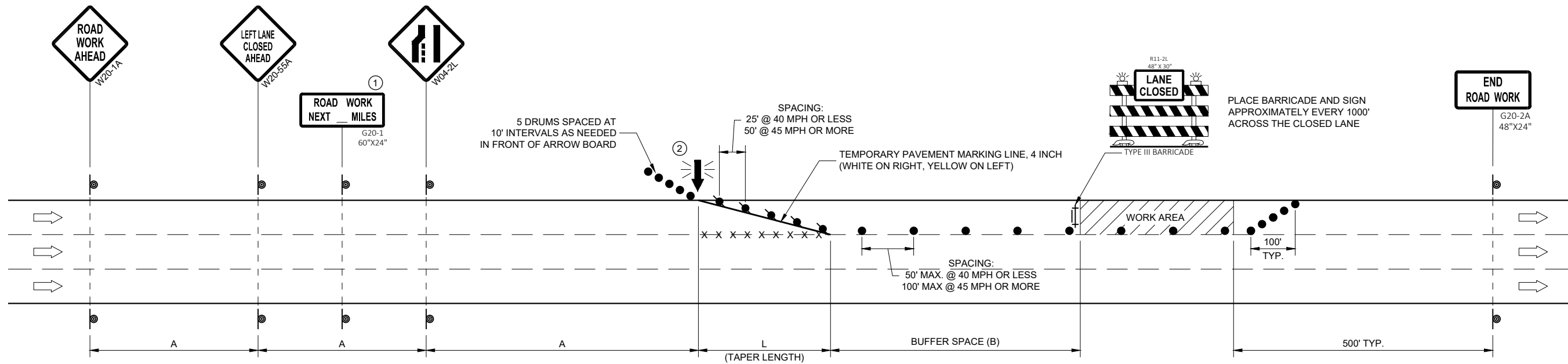
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

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.
- 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
February 2022 /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.

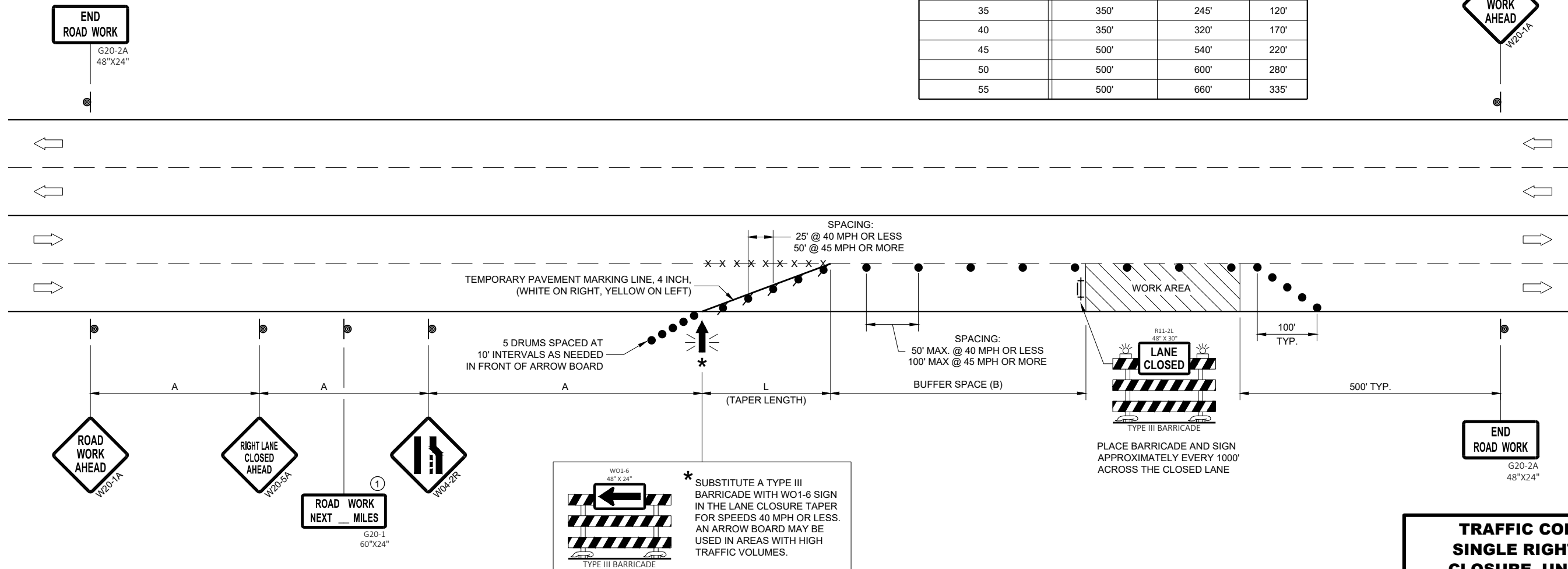
① OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

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'



6

6



SDD 15D20 - 06b

SDD 15D20 - 06b










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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022 /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.

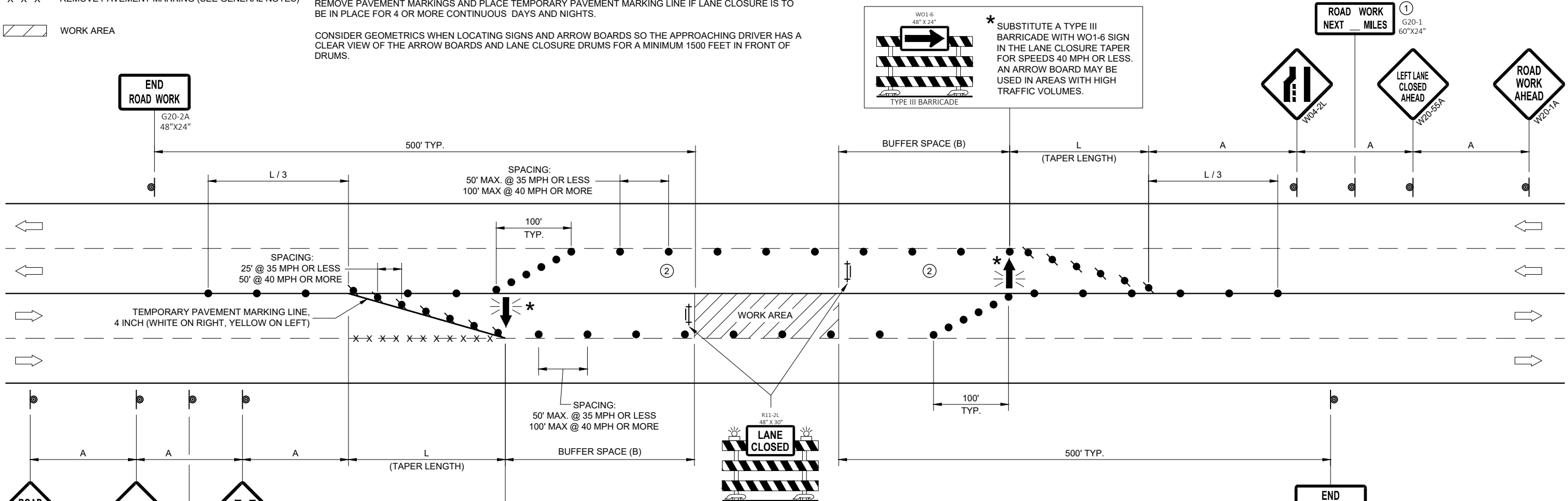
DUE TO LACK OF SHOULDER/MEDIAN, ARROW BOARD IS PLACED AT THE THE END OF THE TAPER.

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"X30"

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
February 2022 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

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.

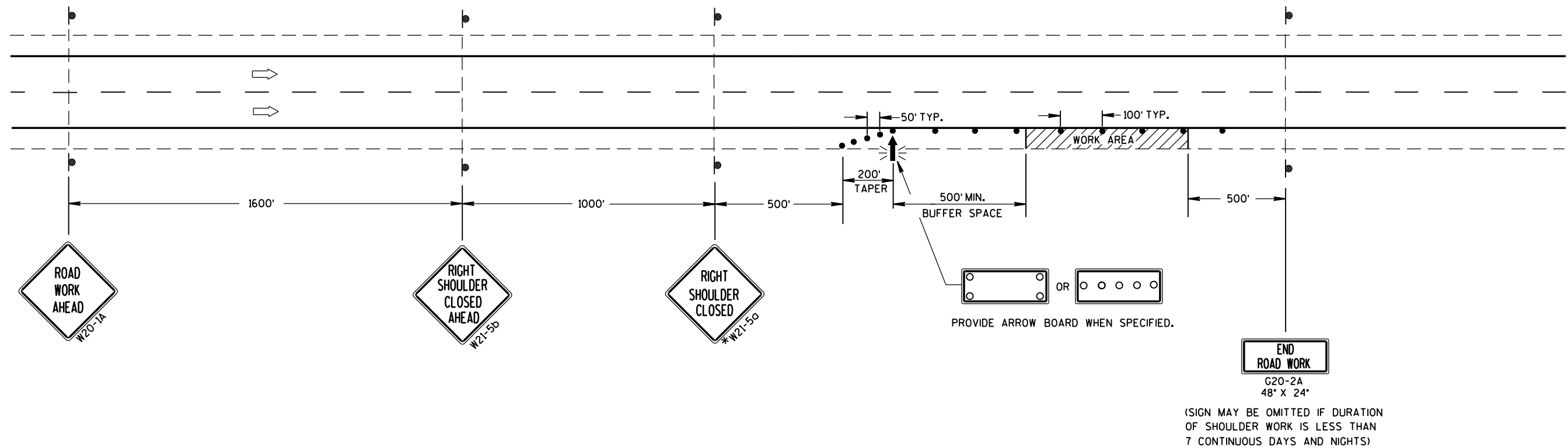
CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH	
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.

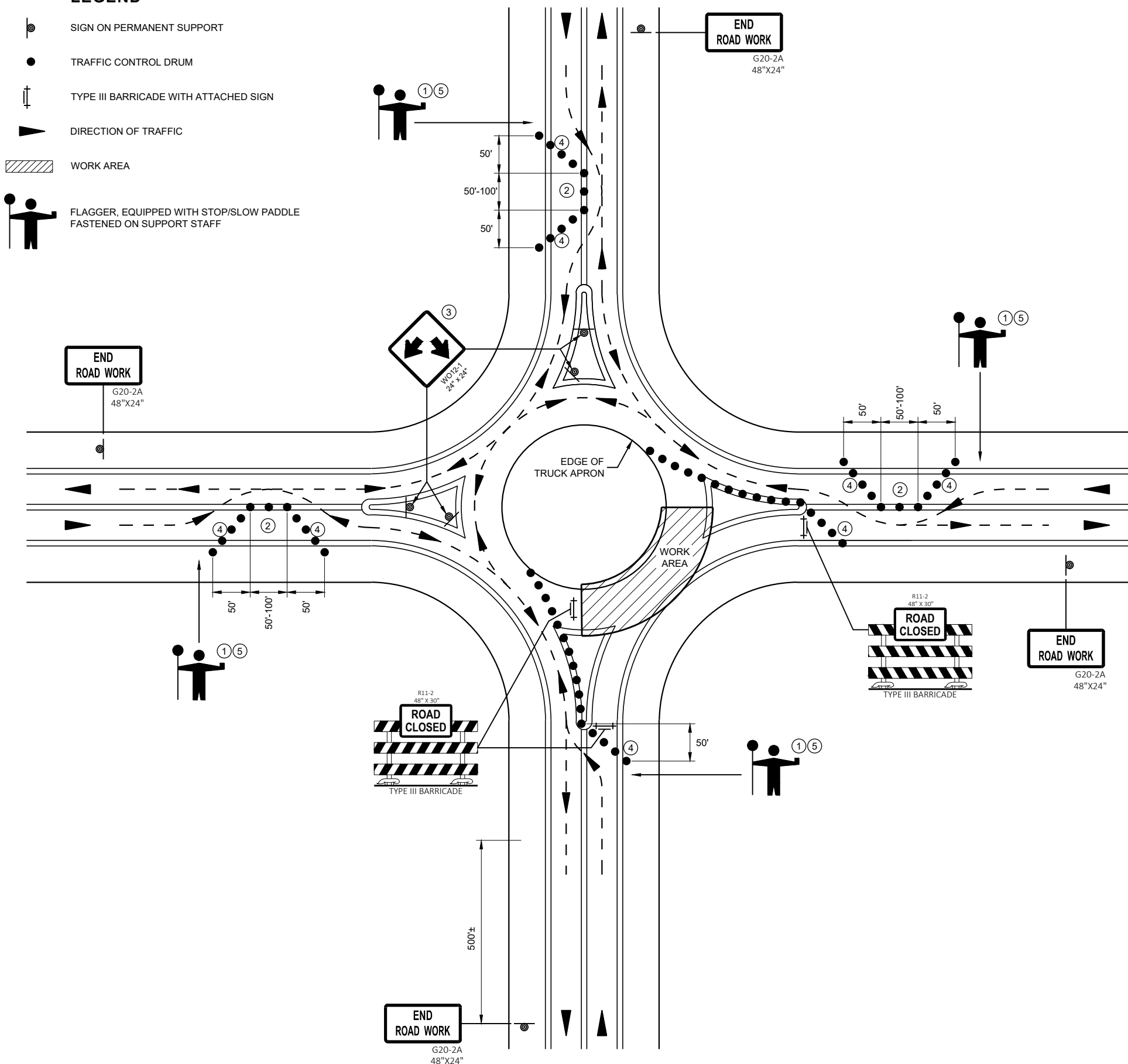
FLAGGERS SHALL CONTROL TRAFFIC ON ALL APPROACHES OF THE ONE-LANE ROUNDABOUT. ONE FLAGGER SHALL BE DESIGNATED LEAD FLAGGER.

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 /S/ Andrew Heidtke
DATE STATEWIDE WORK ZONE TRAFFIC SAFETY 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 $L/2$					
		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.

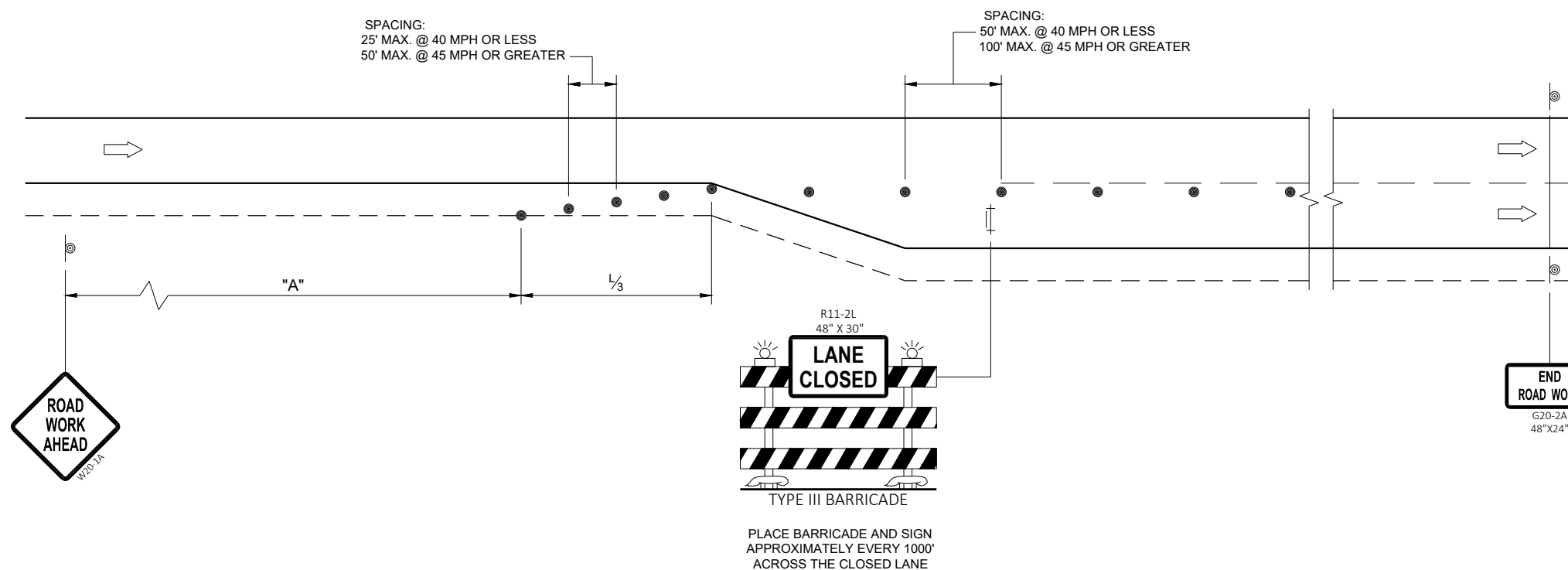
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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.



TRAFFIC CONTROL ADDED LANE CLOSURE WITHOUT LANE SHIFT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2022 DATE	/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.

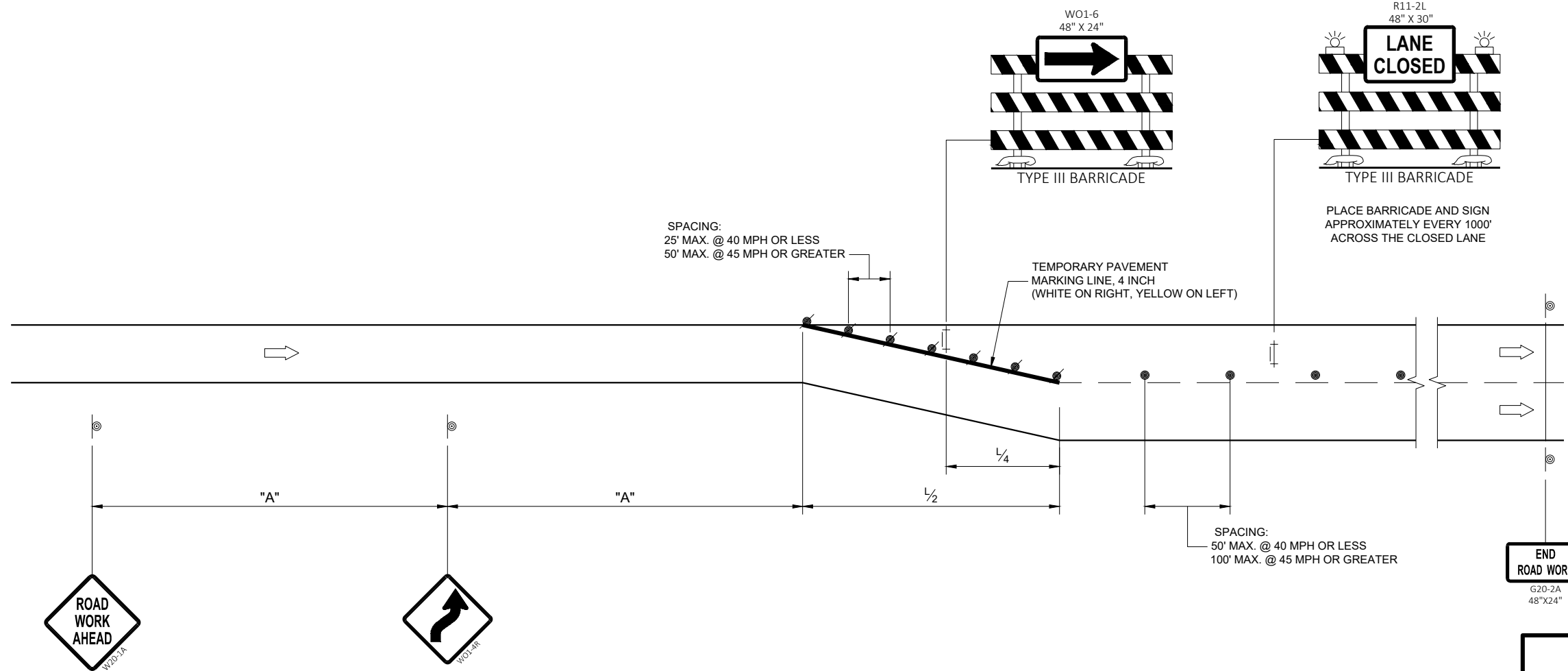
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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.



**TRAFFIC CONTROL,
ADDED LANE CLOSURE
WITH LANE SHIFT**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

<http://www.dot.wisconsin.gov>