

- Section No. 1 Title
Section No. 2 Typical Sections and Details
Section No. 3 Estimate of Quantities
Section No. 3 Miscellaneous Quantities
~~Section No. 5 Plan~~
Section No. 6 Standard Detail Drawings
~~Section No. 7 Sign Plates~~
~~Section No. 8 Structure Plans~~

TOTAL SHEETS = 38

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SPECIAL PAVEMENT MARKING - 2014

VARIOUS HIGHWAYS
SE REGION WIDE

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1000-77-12	WISC 2014214	1



WASHINGTON COUNTY

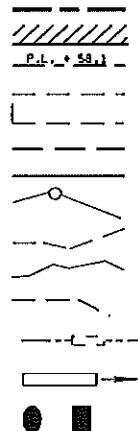
MILWAUKEE COUNTY

STATE PROJECT NUMBER
1000-77-12

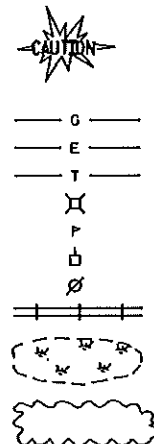


CONVENTIONAL SIGNS

COUNTY LINE
CORPORATE LIMITS
PROPERTY LINE
LOT LINE
LIMITED EASEMENT
EXISTING RIGHT OF WAY
PROPOSED OR NEW R/W LINE
SURVEY LINE
SLOPE INTERCEPT
ORIGINAL GROUND
MARSH OR ROCK PROFILE
EXISTING CULVERT
PROPOSED CULVERT
(Box or Pipe)
CULVERT (Profile View)



COMBUSTIBLE FLUIDS
UNDERGROUND UTILITIES
GAS
ELECTRIC
TELEPHONE OR TELEGRAPH
SERVICE PEDESTAL
CABLE MARKER
POWER POLE
TELEPHONE POLE
RAILROAD
MARSH AREA
WOODED OR SHRUB AREA



LAYOUT

SCALE

PROJECT ID 1000-77-12 = 0.000 MI.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor _____
Designer DON STEEL
Project Manager DON STEEL
Regional Examiner TOM HEYDEL
Regional Supervisor HANS HIGDON
C.O. Examiner _____

APPROVED FOR THE DEPARTMENT

DATE: 3-26-14 Tom Heydel (Signature)

E

CONTACTS:

DNR- SPILL HOTLINE (24HR)
1-800-943-0003



Call 811 3 Work Days Before You Dig
Or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com





DODGE
COUNTY

FOND DU LAC
COUNTY

US 45 (17.2 MILE)

US 41- SPLIT
TO
CTH H WEST JUNCTION (MOHAWK RD)
(ARROW, SYMBOL, WORD, STOP BAR,
DIAGONAL, CHANNELIZING & CROSSWALK)
(SEGMENT 2)

OZAUKEE
COUNTY

NOTE: ● STH 60 & STH 145 INTERCHANGE
"SPECIAL PAVEMENT MARKINGS" ARE EXCLUDED
FROM PROJECT.

WASHINGTON
COUNTY

STH 60 (3.2 MILE)

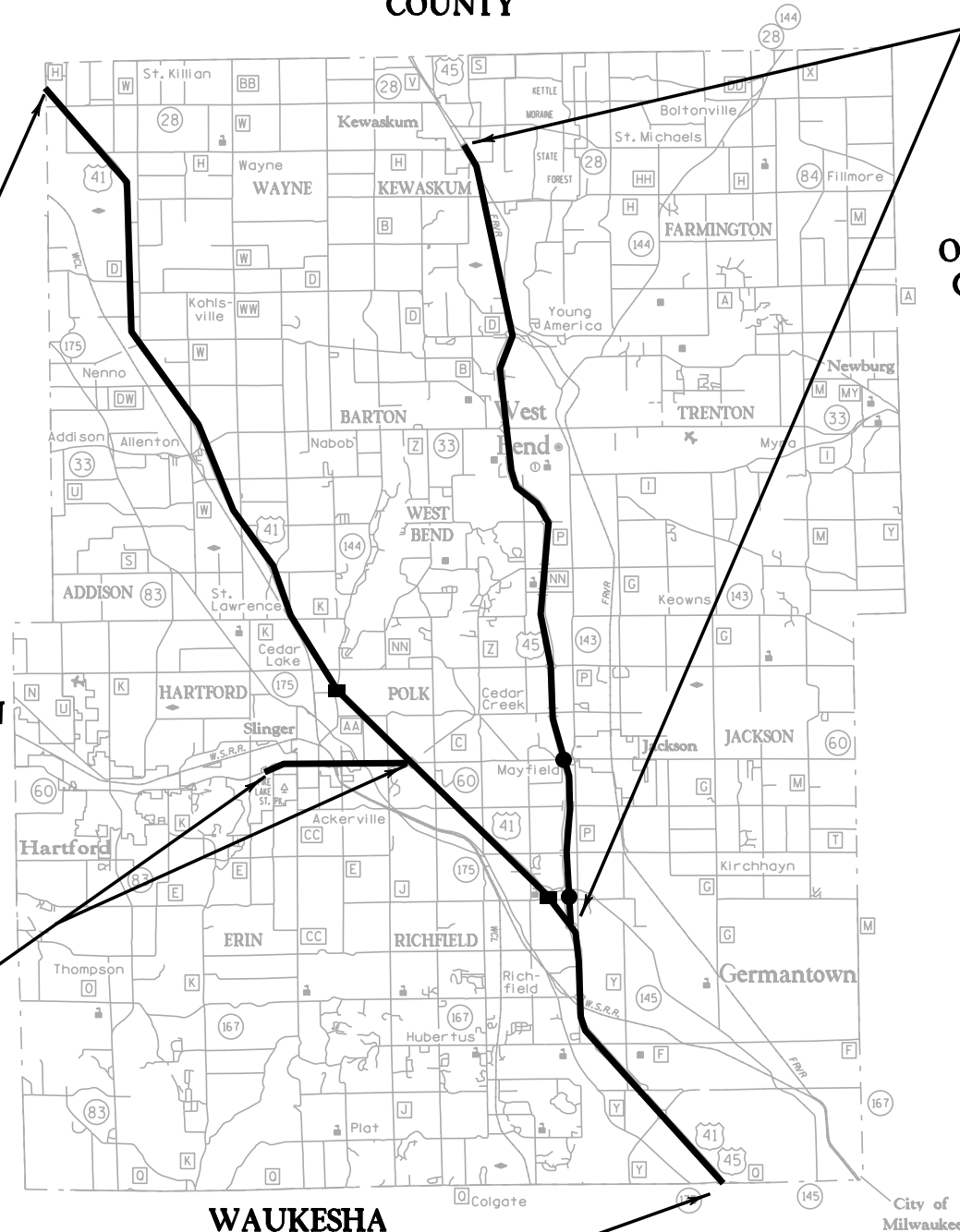
US 41
TO
POWDER HILL RD
(ARROW, WORDS
& STOP BAR)
(SEGMENT 6)

US 41 (28.4 MILE)

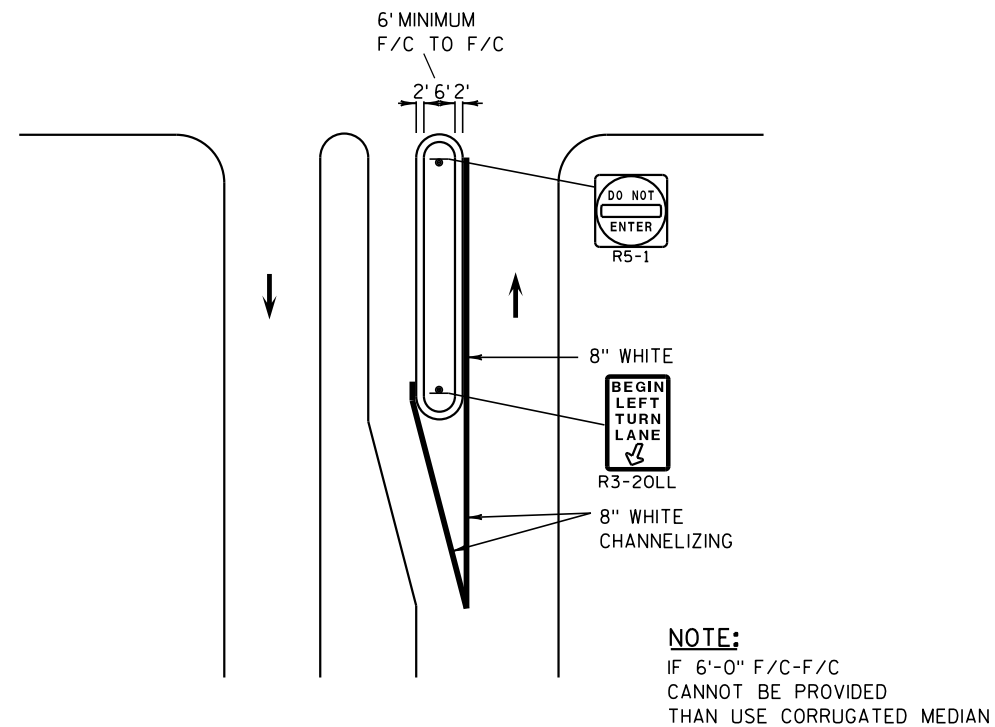
WAUKESHA COUNTY LINE (CTH Q)
TO
DODGE COUNTY (STH 28)
(ARROW, SYMBOL, WORD, STOP BAR,
DIAGONAL & CHANNELIZING)
(SEGMENT 1)

WAUKESHA
COUNTY

NOTE: ■ STH 144 & STH 145 INTERCHANGE
"SPECIAL PAVEMENT MARKINGS" ARE EXCLUDED
FROM PROJECT.



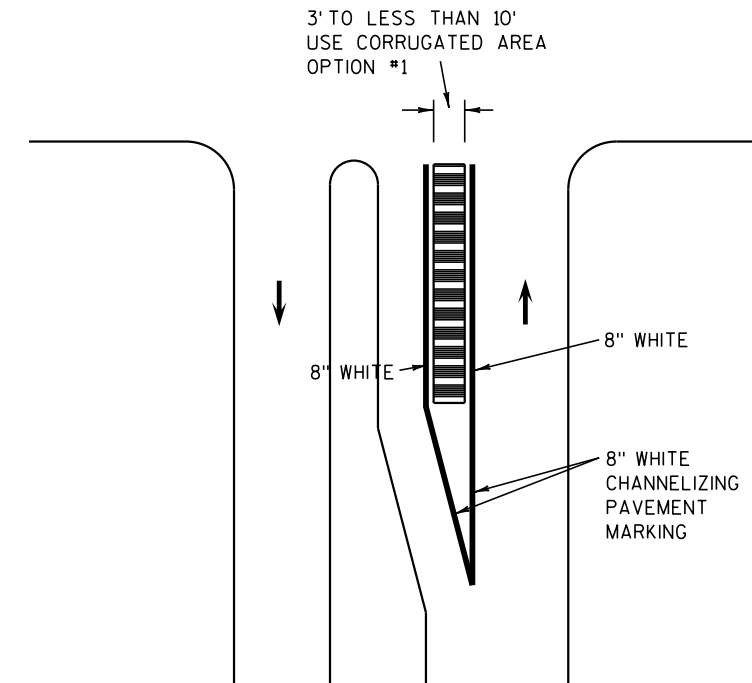
2



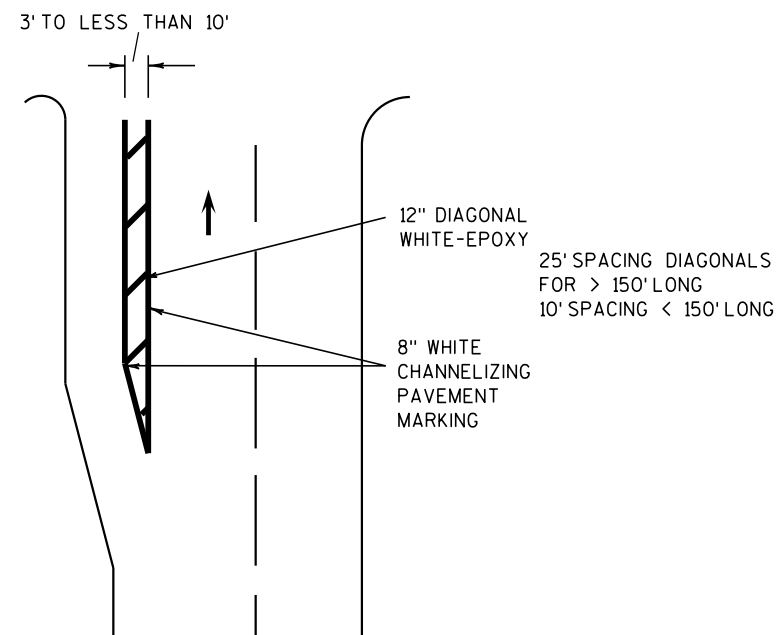
1 10' OR GREATER
CURB & GUTTER LEFT TURN SLOT

NOTE:
IF 6'-0" F/C-F/C
CANNOT BE PROVIDED
THAN USE CORRUGATED MEDIAN

2



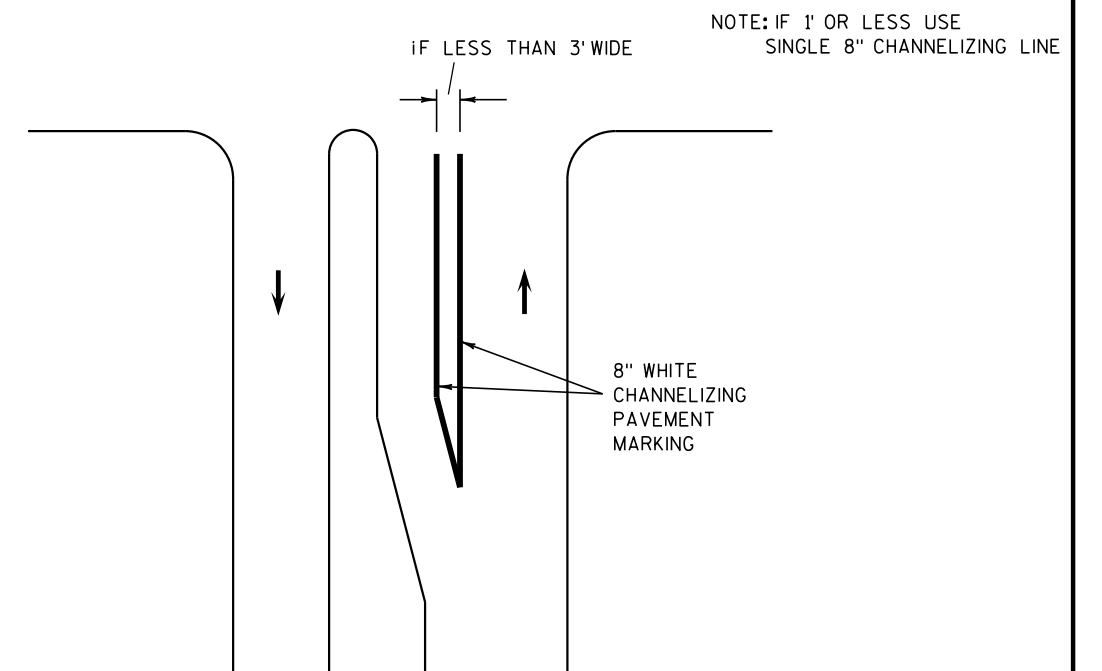
2 3' TO 10' OPTION #1
PREFERRED OVER OPTION #2



3 3' TO 10' OPTION #2

SLOTTED LEFT TURN LANE TREATMENT

- 1 10' OR GREATER
- 2 3' TO 10' OPTION #1
- 3 3' TO 10' OPTION #2
- 4 LESS THAN 3'-0"



4 LESS THAN 3' WIDE

PAVEMENT MARKING

SHEET 1 OF 2

PROJECT NO: 1000-77-12

HWY: VARIOUS

COUNTY: VARIOUS

CONSTRUCTION DETAIL- SLOTTED LEFT TURN LANES

SHEET

E

FILE NAME : J:\projects\d2_paymark\d2_10007712\PM-LTTURNS2.DGN

PLOT DATE : 03-DEC-2013 09:20

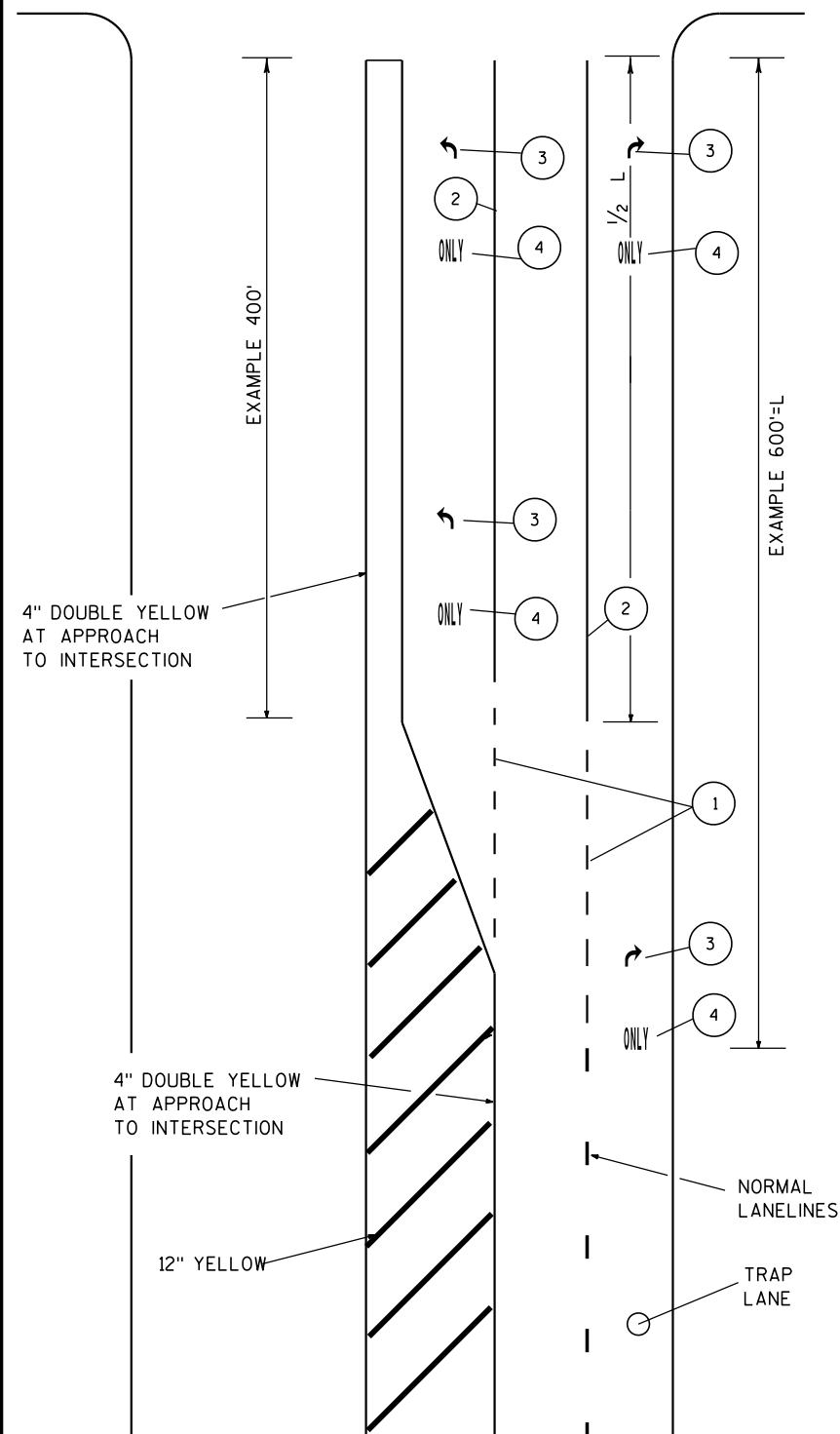
PLOT BY : dotbgw

PLOT NAME :

PLOT SCALE : 200:1

WISDOT/CADDs SHEET 42

TWO SETS MAX. OF ARROWS/ONLYS



RIGHT
TURN
ONLY
R3-53R
24" X 30"

DO NOT
ENTER
R5-1

W12-1D
24" X 24"
2' HEIGHT

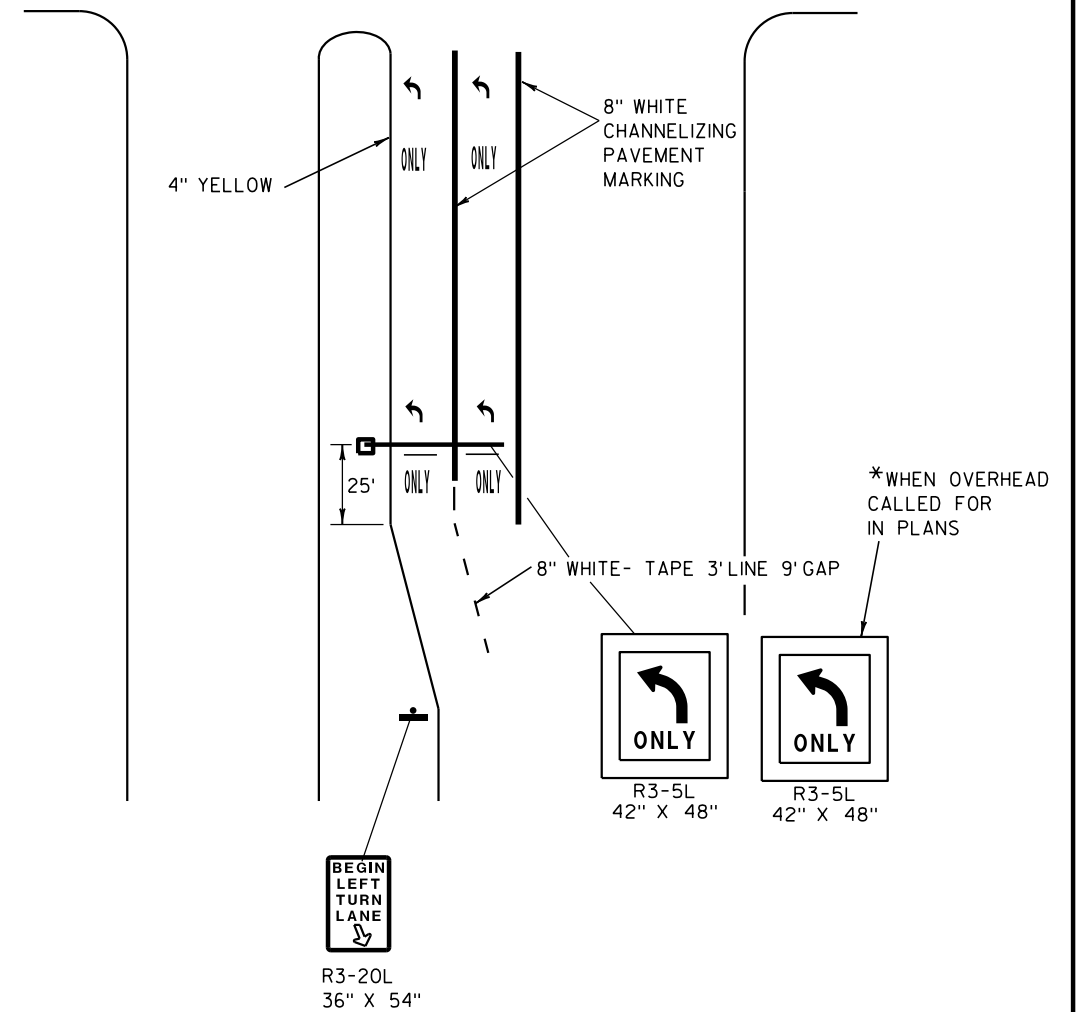
8" WHITE CHANNELING

- 1 8" WHITE (3' LINE, 9' GAP)
- 2 8" SOLID WHITE
- 3 ARROW TYPE 2
- 4 WORD

*CONTACT TRAFFIC OPERATIONS TOM HEYDEL FOR SPEC OR WEBSITE
http://dotnet/dtid_bho/extranet/manuals/index.shtm
traffic hot topics reference list/special provisions

**SEE REGION MATRIX OF MATERIALS FOR TYPE OF PAVEMENT MARKING PRODUCT TO USE
CONTACT TOM HEYDEL

TWO SETS MAX. OF ARROWS/ONLYS



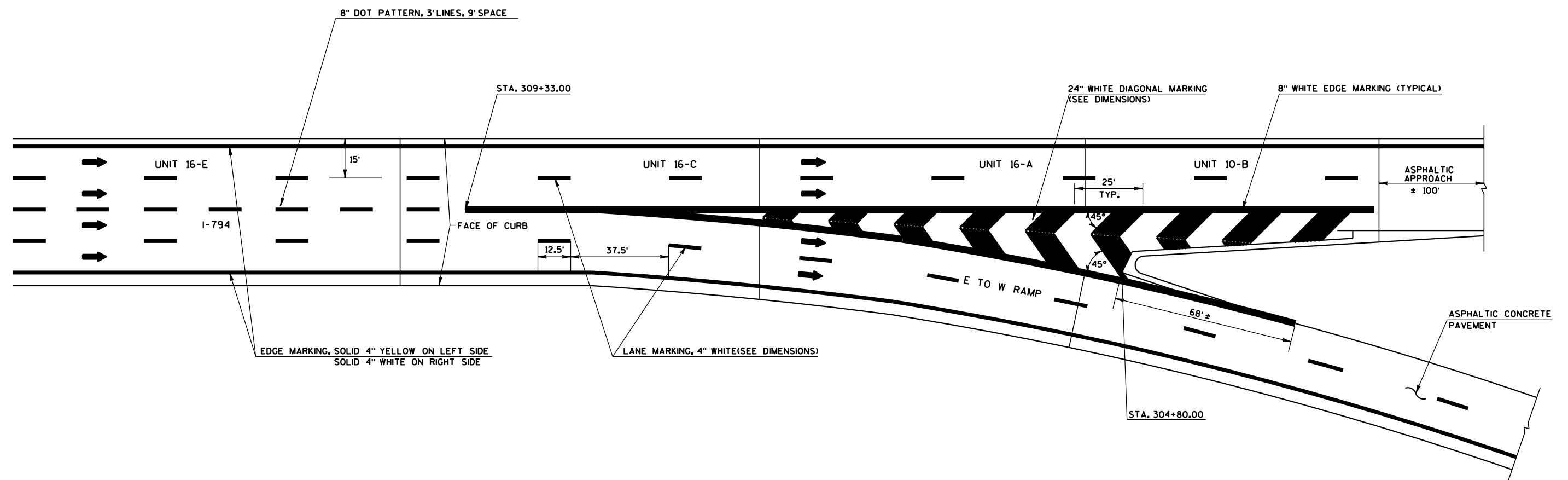
ONLY
R3-5L
42" X 48"

ONLY
R3-5L
42" X 48"

*WHEN OVERHEAD
CALLED FOR
IN PLANS

SHEET 2 OF 2

NOTES: PAVEMENT LANE MARKINGS AND EDGE LINES SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
GORE MARKING SHALL BE PROVIDED AT ALL LOCATIONS AND SHALL DUPLICATE THE EXISTING GORE MARKINGS.
ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.



MAJOR SPLIT FREEWAY TO FREEWAY

PROJECT NO: 1000-77-12

HWY: IH-41/USH 45

COUNTY: WASHINGTON

EPOXY PAVEMENT MARKING DETAIL

SHEET

E

FILE NAME : J:\projects\d2_paymark\d2_10007712\PMGORE_DETAILS.DGN

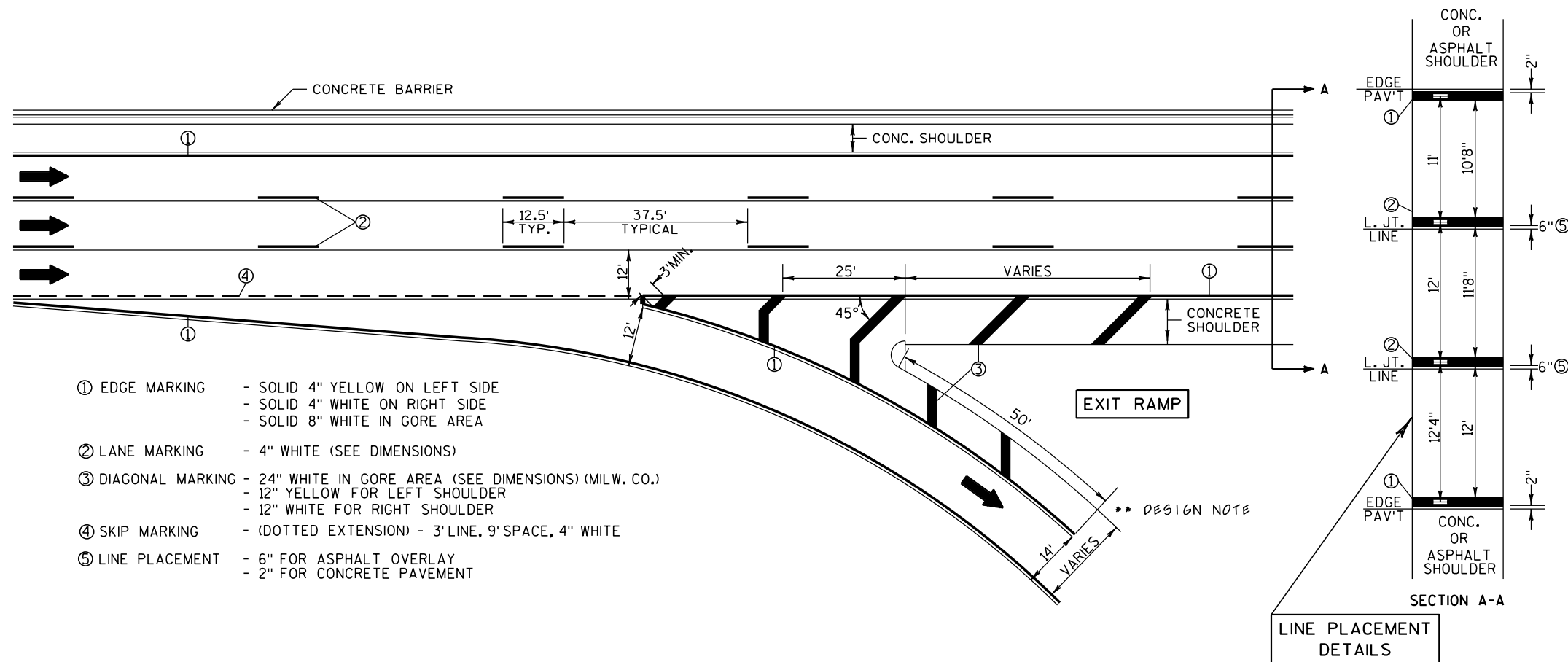
PLOT DATE : 03-DEC-2013 09:20

PLOT BY : dotbgw

PLOT NAME :

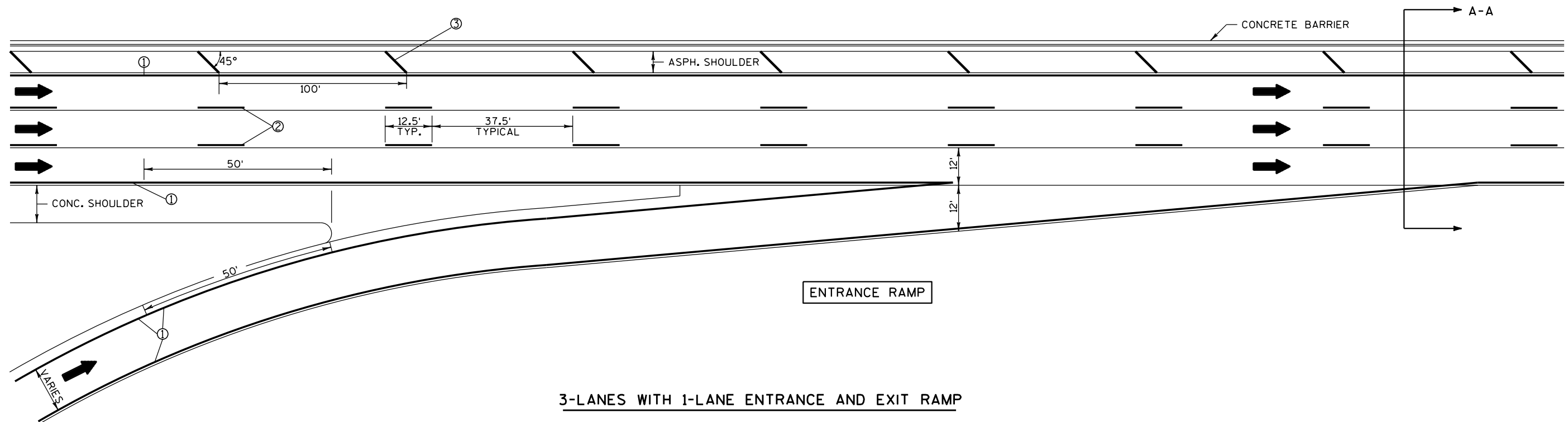
PLOT SCALE : 200:1

WISDOT/CADDs SHEET 42



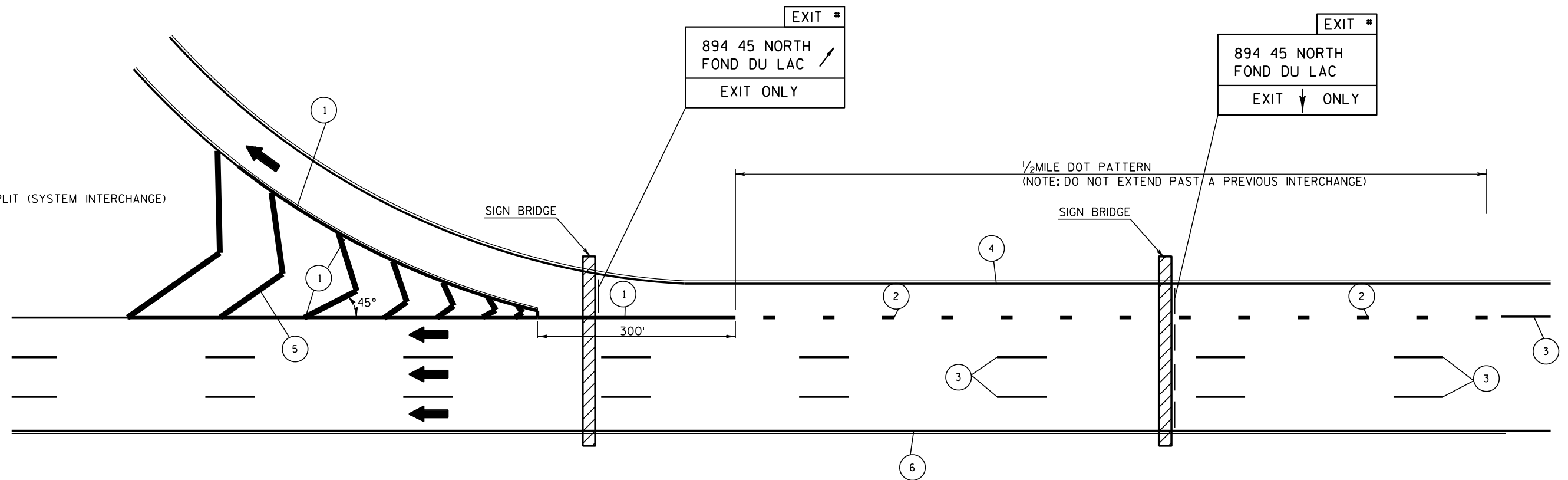
NOTES:

1. THE 12" WIDE DIAGONAL SHOULDER MARKING SHALL BE USED ONLY WHERE THE ASPHALTIC CONCRETE SHOULDER ABUTS ASPHALTIC CONC. PAV'T. IF THERE ARE CONTINUOUS RUMBLE STRIPS, DO NOT USE DIAGONAL SHOULDER MARKING.
2. WHERE THE DOTTED EXTENSION OF THE RIGHT EDGE LINE IS SHOWN ON THE PLAN, IT SHALL BE 4" WIDE, WITH A LINE SKIP PATTERN CONSISTING OF A 3' LONG LINE AND A 9' SKIP.
3. PAVEMENT LANE MARKINGS SHALL BE LOCATED 6" OFF THE LONGITUDINAL JOINT OF THE UNDERLYING CONC. PAVEMENT.
4. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
5. SPOTTING FOR PAVEMENT LANE MARKINGS AND EDGE LINES SHALL BE 4"x4" PIECES OF REFLECTORIZED PAV'T MARKING TAPE SPACED AT 50' INTERVALS, INCIDENTAL TO PAV'T MARKING.



DESIGN NOTES ARE LOCATED ON LEVEL 63
GORES, FREEWAYS, & EXPRESSWAYS (EPOXY)

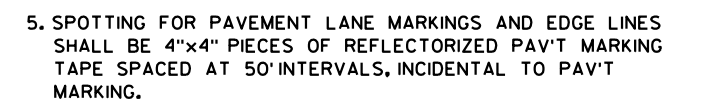
NOTE:
CHEVRONS AT MAJOR SPLIT (SYSTEM INTERCHANGE)
IN LIEU OF DIAGONALS



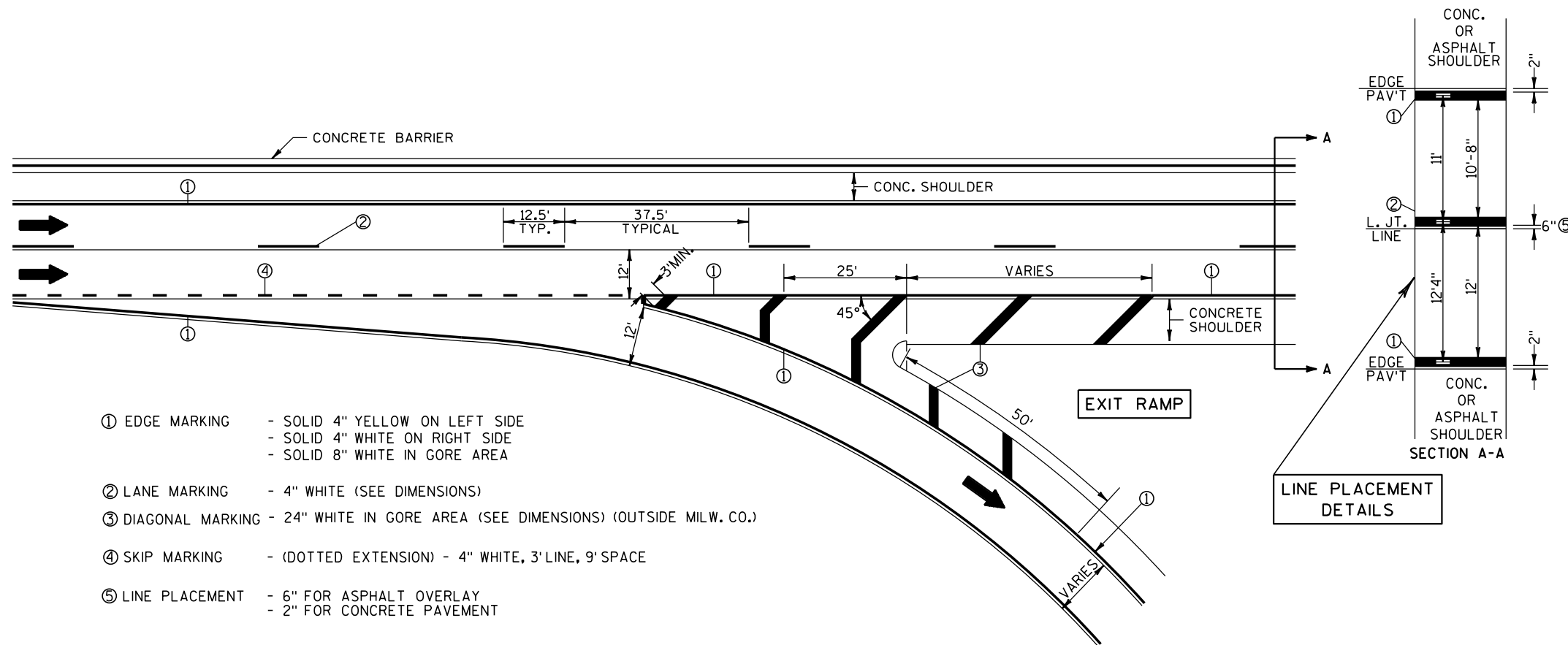
TYPICAL AUXILIARY LANE PAVEMENT MARKING SYSTEM INTERCHANGE

LEGEND

- 1 8" CHANNELIZING WHITE
- 2 8" WHITE DOT PATTERN
3' LINE, 9" SPACE
+ RPMS SPACED AT 60'
- 3 4" WHITE 12.5' LINE, 37.5' SPACE
- 4 4" WHITE EDGELINE
- 5 24" WHITE CHAVRON
- 6 4" YELLOW EDGELINE

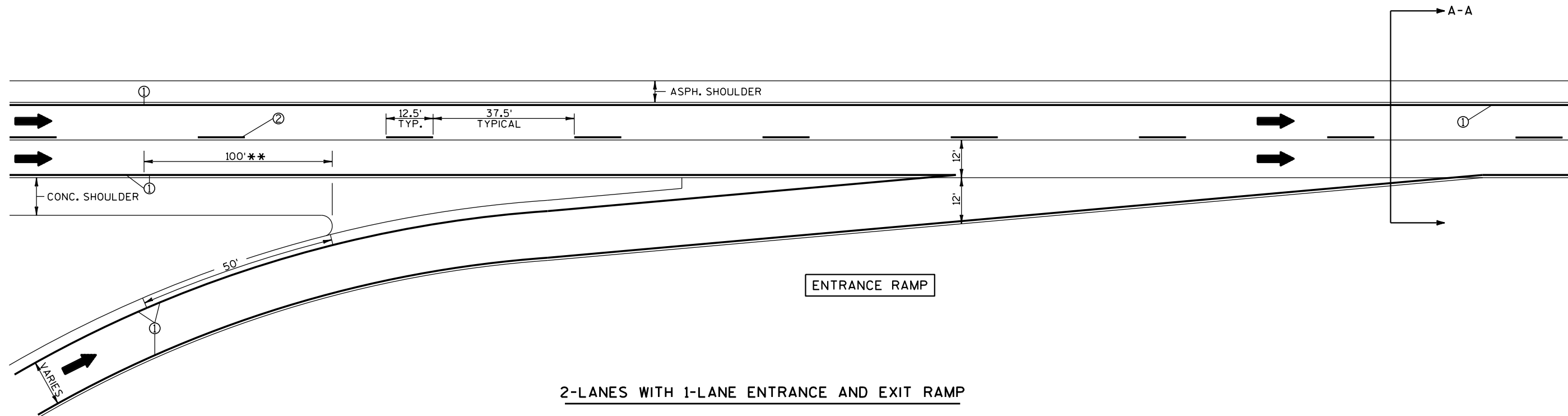


RACINE, KENOSHA, WALWORTH, WAUKESHA,
OZAUKEE & WASHINGTON COUNTIES



NOTES:

1. WHERE THE DOTTED EXTENSION OF THE RIGHT EDGE LINE IS SHOWN ON THE PLAN, IT SHALL BE 4" WIDE, WITH A LINE SKIP PATTERN CONSISTING OF A 3' LONG LINE AND A 9' SKIP.
2. PAVEMENT LANE MARKINGS SHALL BE LOCATED 6" OFF THE LONGITUDINAL JOINT OF THE UNDERLYING CONC. PAVEMENT.
3. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
4. SPOTTING FOR PAVEMENT LANE MARKINGS AND EDGE LINES SHALL BE 4"x4" PIECES OF REFLECTORIZED PAV'T MARKING TAPE SPACED AT 50' INTERVALS, INCIDENTAL TO PAV'T MARKING.



2-LANES WITH 1-LANE ENTRANCE AND EXIT RAMP

GORES, FREEWAYS, & EXPRESSWAYS

PROJECT NO: 1000-77-12

HWY: VARIES IH/USH

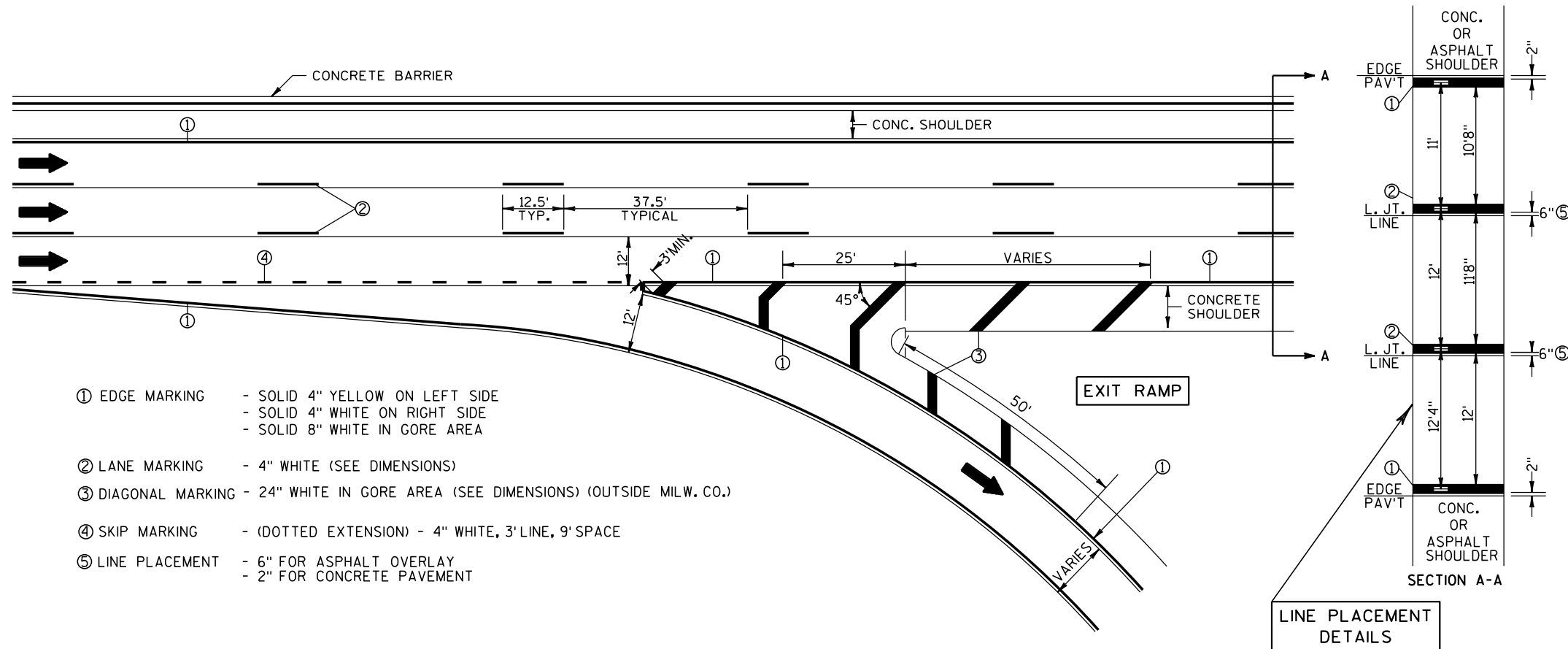
COUNTY: OUTSIDE MILWAUKEE CO.

EPOXY PAVEMENT MARKING, RAMPS

SHEET

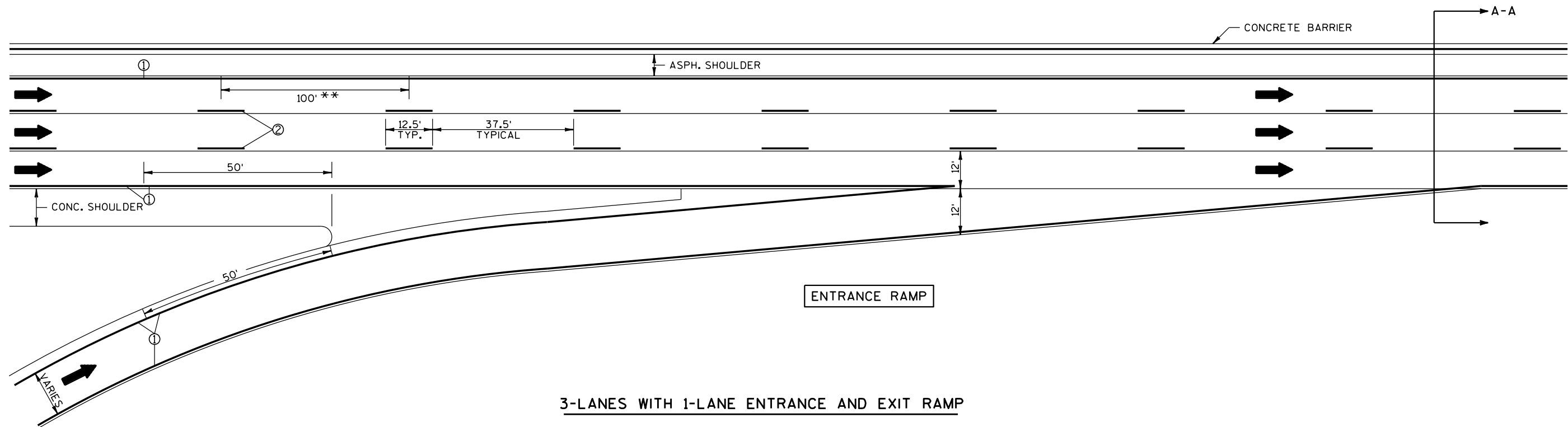
E

RACINE, KENOSHA, WALWORTH, WAUKESHA,
OZAUKEE & WASHINGTON COUNTIES

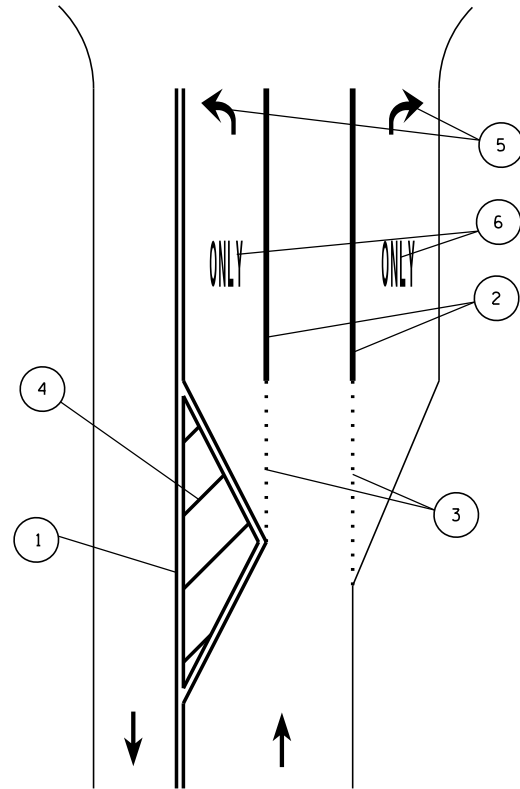


NOTES:

- WHERE THE DOTTED EXTENSION OF THE RIGHT EDGE LINE IS SHOWN ON THE PLAN, IT SHALL BE 4" WIDE, WITH A LINE SKIP PATTERN CONSISTING OF A 3' LONG LINE AND A 9' SKIP.
- PAVEMENT LANE MARKINGS SHALL BE LOCATED 6" OFF THE LONGITUDINAL JOINT OF THE UNDERLYING CONC. PAVEMENT.
- ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
- SPOTTING FOR PAVEMENT LANE MARKINGS AND EDGE LINES SHALL BE 4"x4" PIECES OF REFLECTORIZED PAV'T MARKING TAPE SPACED AT 50' INTERVALS, INCIDENTAL TO PAV'T MARKING.



GORES, FREEWAYS, & EXPRESSWAYS

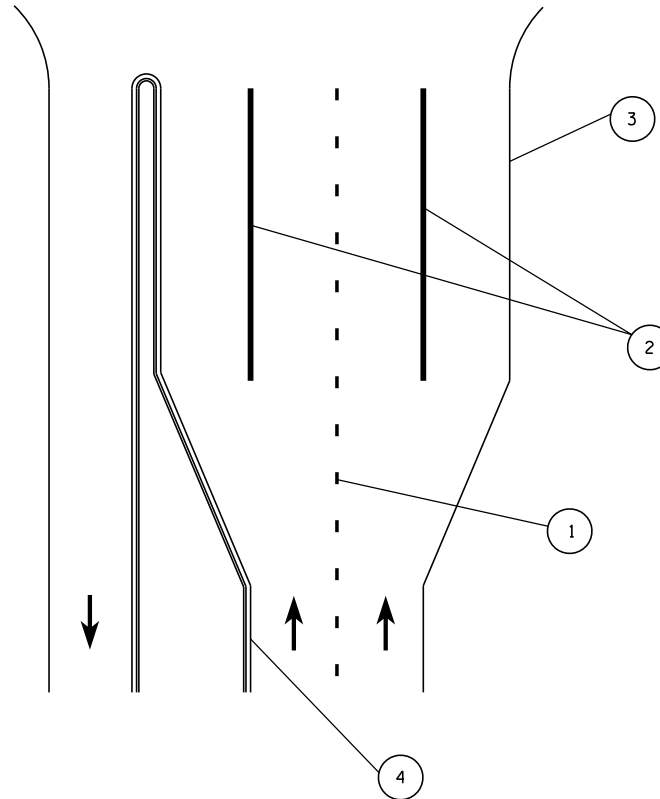


NOTE: IF SIGNALIZED
ADD STOP BAR

TYPICAL ARROW/ONLY LANE USE MARKINGS
FOR PAINTED CENTERLINE APPLICATION

LEGEND

- ① PAVEMENT MARKING 4" DOUBLE YELLOW
- ② PAVEMENT MARKING 8" CHANNELIZING WHITE
- ③ PAVEMENT MARKING 8" WHITE (3' LINE, 12' SPACE)
- ④ PAVEMENT MARKING 12" DIAGONAL YELLOW
- ⑤ PAVEMENT MARKING TYPE 2 ARROW
- ⑥ PAVEMENT MARKING WORDS

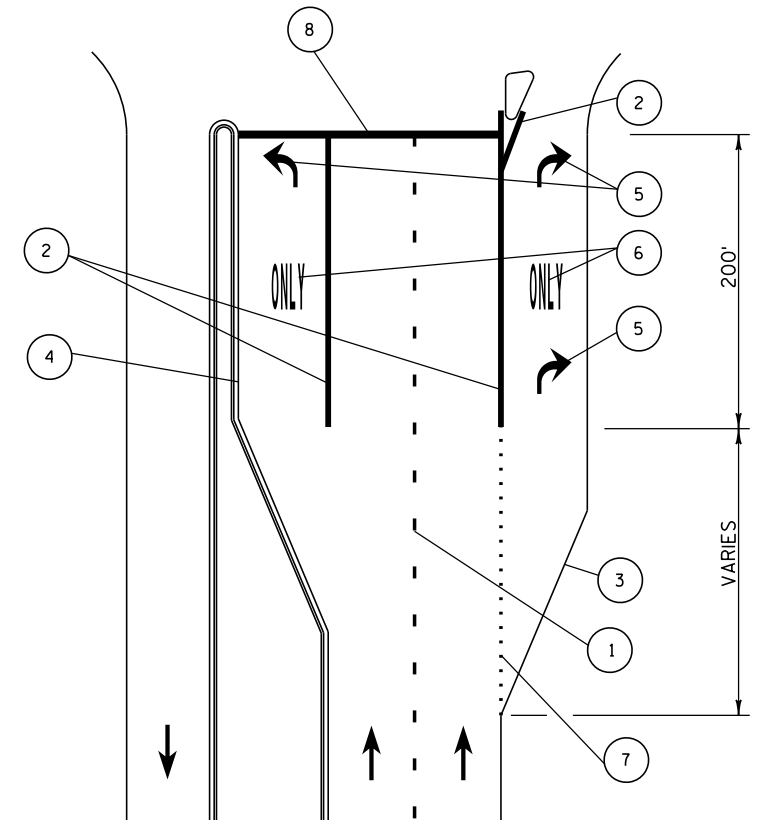


NOTE: IF OUTSIDE SHOULDER
IS NOT CURB & GUTTER THEN
ALWAYS USE EDGE LINE
REGARDLESS OF SPEED LIMIT

TYPICAL NO ARROW/ONLY TURN LANES
CURB & GUTTER MEDIAN
UNSIGNALIZED SIDEROAD

LEGEND

- ① PAVEMENT MARKING 4" LANE LINE WHITE (12.5' LINE, 37.5' SPACE)
- ② PAVEMENT MARKING 8" CHANNELIZING WHITE
- ③ PAVEMENT MARKING 4" WHITE EDGE LINE 45 MPH & GREATER
- ④ PAVEMENT MARKING 4" YELLOW EDGE LINE 45 MPH & GREATER

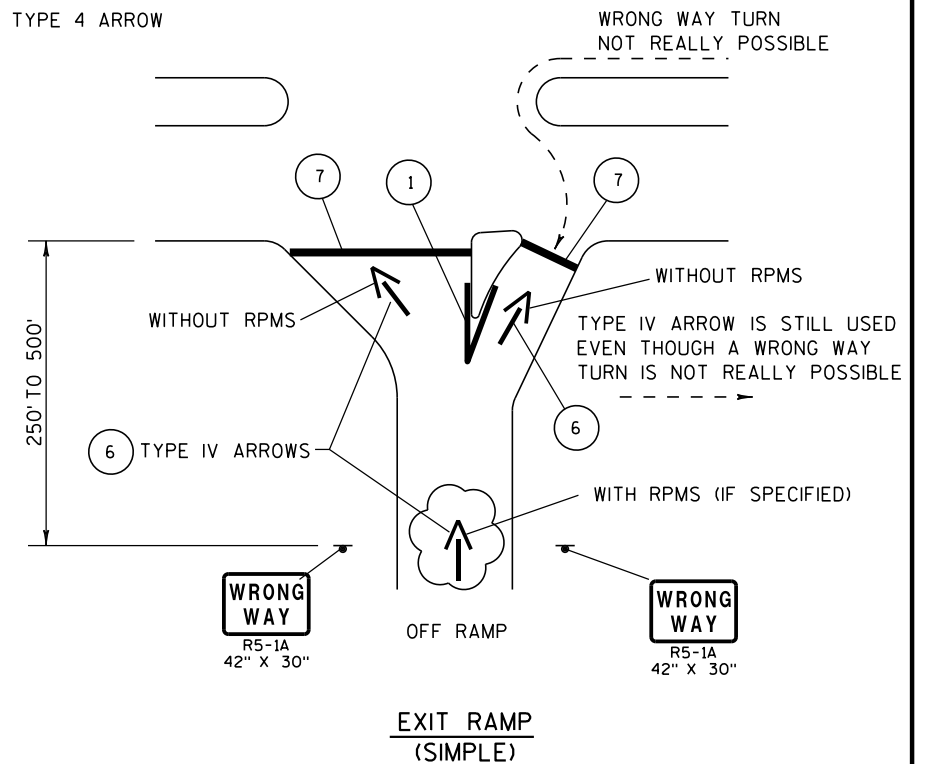
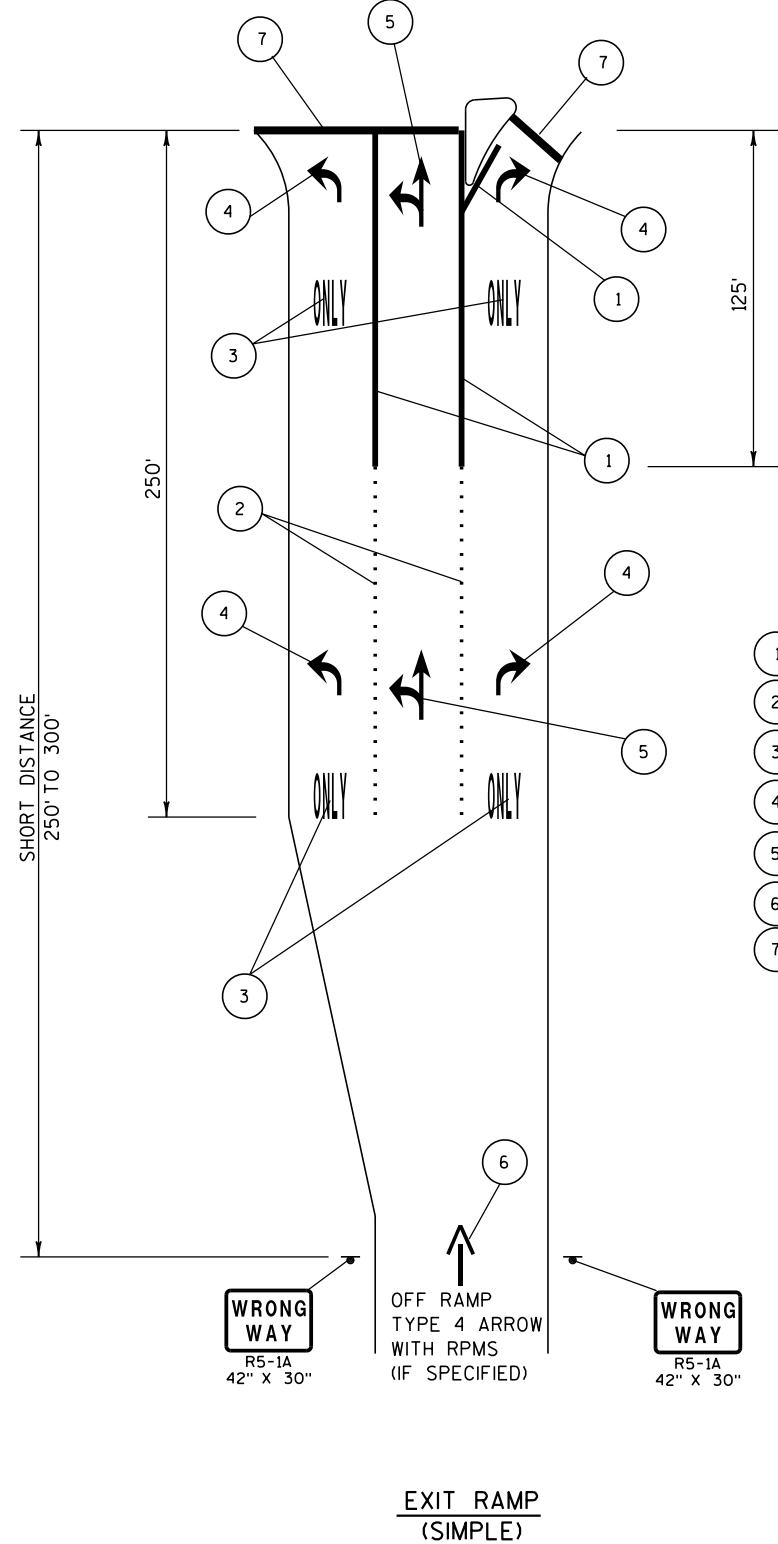


NOTE: SIGNALIZED INTERSECTION

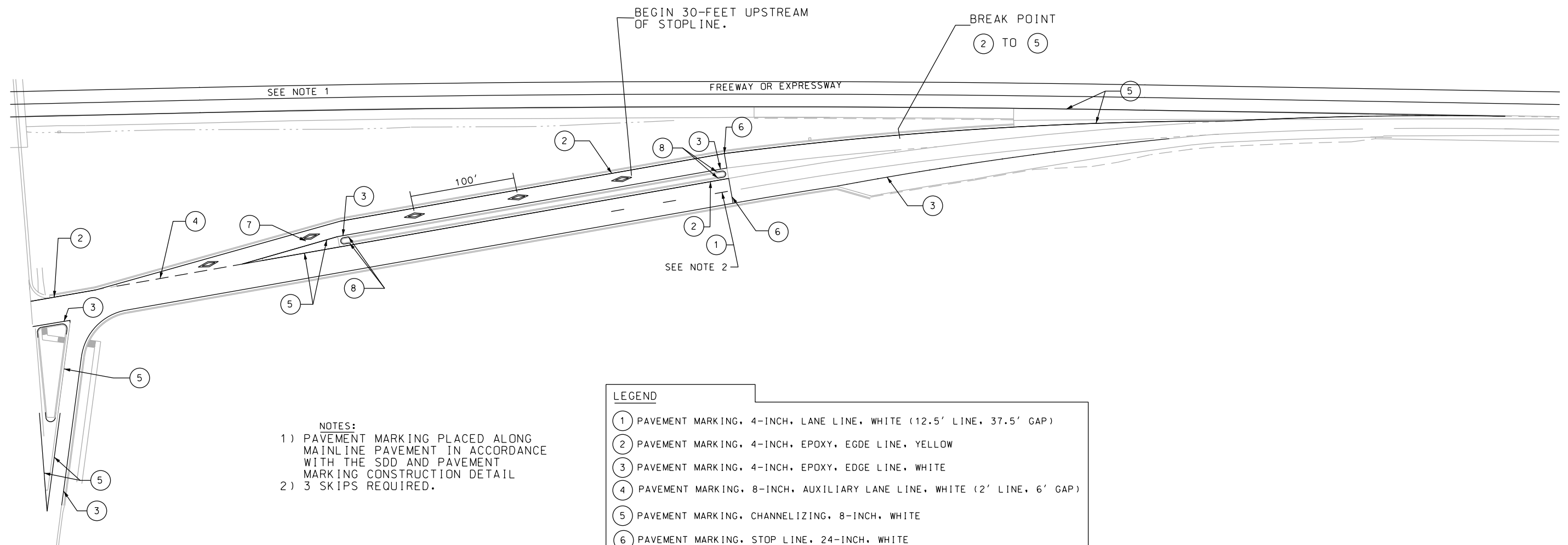
TYPICAL MARKING AT
SIGNALIZED INTERSECTION
CURB & GUTTER MEDIAN

LEGEND

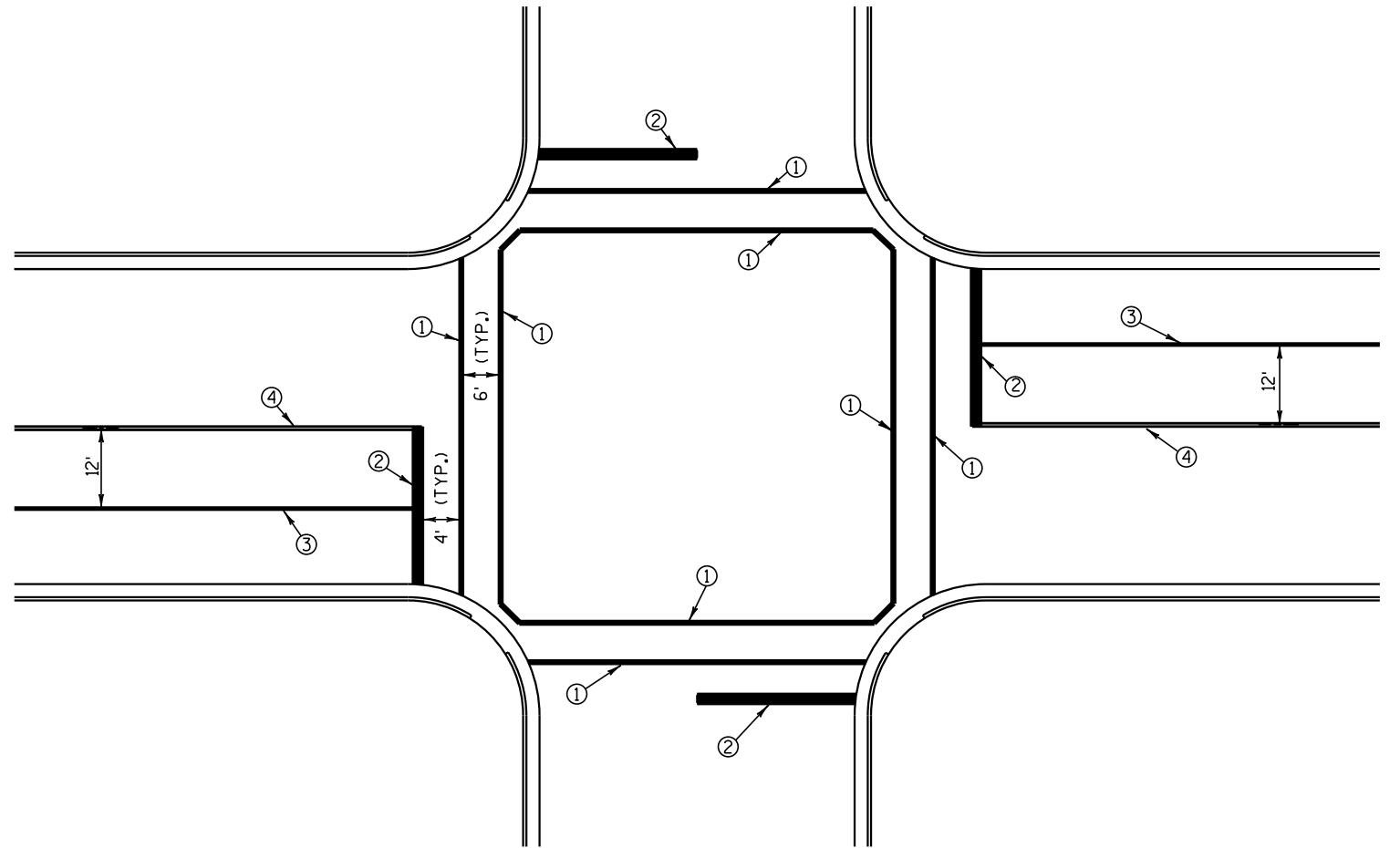
- ① PAVEMENT MARKING 4" LANE LINE WHITE (12.5' LINE, 37.5' SPACE)
- ② PAVEMENT MARKING 8" CHANNELIZING WHITE
- ③ PAVEMENT MARKING 4" WHITE EDGE LINE 45 MPH & GREATER
- ④ PAVEMENT MARKING 4" YELLOW EDGE LINE 45 MPH & GREATER
- ⑤ PAVEMENT MARKING TYPE 2 ARROW
- ⑥ PAVEMENT MARKING WORDS
- ⑦ PAVEMENT MARKING 8" WHITE (3' LINE, 12' SPACE)
- ⑧ PAVEMENT MARKING 18" STOP LINE



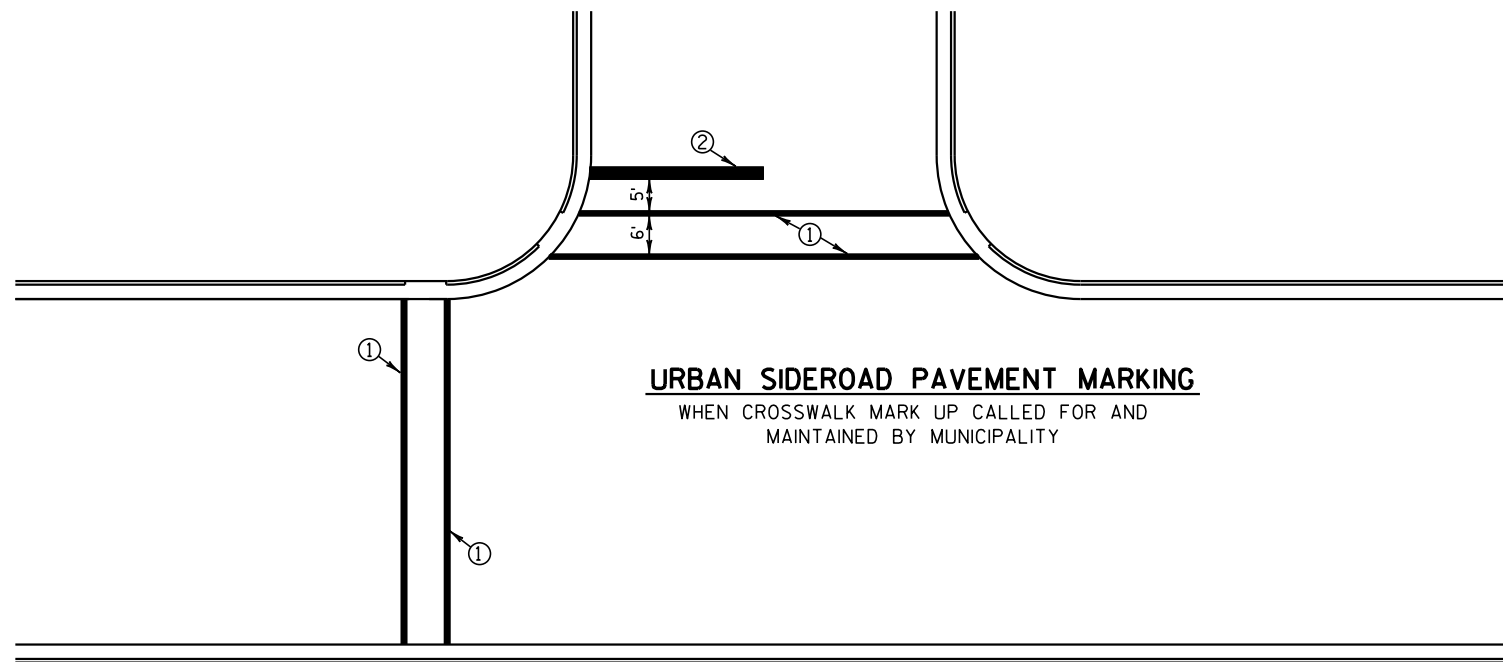
- ## LEGEND
- | | |
|---|---|
| 1 | PAVEMENT MARKING 8" CHANNELIZING WHITE |
| 2 | PAVEMENT MARKING 8" WHITE (3' LINE, 9' SPACE) |
| 3 | PAVEMENT MARKING WORDS |
| 4 | PAVEMENT MARKING TYPE 2 ARROW |
| 5 | PAVEMENT MARKING TYPE 3 ARROW |
| 6 | PAVEMENT MARKING TYPE 4 ARROW |
| 7 | 18" STOP BAR |



TYPICAL RAMP METER AND HOV LANE MARKING



TYPICAL URBAN INTERSECTION PAVEMENT MARKING



URBAN SIDEROAD PAVEMENT MARKING

WHEN CROSSWALK MARK UP CALLED FOR AND
MAINTAINED BY MUNICIPALITY

LEGEND	
①	6" SOLID WHITE (CROSSWALK)
②	18" SOLID WHITE (STOP LINE)
③	8" SOLID WHITE (CHANNELIZING)
④	6" DOUBLE YELLOW

TYPICAL CROSS WALK AT URBAN CROSS-SECTION AWAY FROM INTERSECTIONS

CROSSWALK - STOP BAR

DATE 13MAR14		E S T I M A T E O F Q U A N T I T I E S			
LINE		1000-77-12			
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	619.1000	MOBILIZATION	EACH	1.000	1.000
0020	643.0100	TRAFFIC CONTROL (PROJECT) ID 1000-77-12	EACH	1.000	1.000
0030	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	11,441.000	11,441.000
0040	647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	227.000	227.000
0050	647.0176	PAVEMENT MARKING ARROWS EPOXY TYPE 3	EACH	22.000	22.000
0060	647.0186	PAVEMENT MARKING ARROWS EPOXY TYPE 4	EACH	57.000	57.000
0070	647.0256	PAVEMENT MARKING SYMBOLS EPOXY	EACH	27.000	27.000
0080	647.0356	PAVEMENT MARKING WORDS EPOXY	EACH	156.000	156.000
0090	647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	4,568.000	4,568.000
0100	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	3,546.000	3,546.000
0110	647.0746	PAVEMENT MARKING DIAGONAL EPOXY 24-INCH	LF	6,071.000	6,071.000
0120	647.0766	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	LF	7,390.000	7,390.000

Special Pavement Marking - 2014 Var. Hwy (1000-77-12) SE Region			Category: 0010										
Summaries:			Total Miles	647.0166 Pav. Mrkng Epoxy Arrow Type 2 EA.	647.0176 Pav. Mrkng Epoxy Arrow Type 3 EA.	647.0186 Pav. Mrkng Epoxy Arrow Type 4 EA.	647.0256 Pav. Mrkng Epoxy Symbols (Diamonds) EA.	647.0356 Pav. Mrkng Epoxy Word (Only) EA.	647.0566 Pav. Mrkng Epoxy Stop Line 18-IN L.F.	647.0746 Pav. Mrkng Epoxy Diagonal 24-IN L.F.	646.0726 Pav. Mrkng Epoxy Diagonal 12-IN L.F.	646.0126 Pav. Mrkng Epoxy Chan. 8- IN L.F.	647.0766 Pav. Mrkng Epoxy Cross walk 6- IN L.F.
Washington Co	USH 41	Wauk Co (CTH Q) to Dodge Co (STH 28)	28.4	41	13	27	0	41	610	4548	0	4763	0
Washington Co	STH 60	US 41 to Powder Hill Rd	3.2	69	0	0	0	30	489	0	0	0	0
Washington Co	US 45	US 41 to CTH H-West Jct (Mohawk Rd)	17.2	77	2	21	0	50	501	958	45	3825	675
Milwaukee Co.	STH181	Florist Ave to Milw Co. (Co. Line Rd)	4.5	8	2	0	0	8	2352	0	3251	200	6715
Milwaukee Co.	US 41	900' S. of Good Hope Rd to Wauk Co.	1.3	10	2	3	27	7	303	565	225	2083	0
Milwaukee Co.	STH 341	I-94 (South End) to STH 59 (National)	.9	22	3	6	0	20	313	0	25	570	0
Final Total			53.3	227	22	57	27	156	4568	6071	3546	11441	7390

Special Pavement Marking - 2014
Var. Hwy (1000-77-12)
SE Region

INFORMATION ONLY

County	Hwy	Location	Total Miles	647.0166 Pav. Mrkng Epoxy Arrow Type 2 L.F.	647.0176 Pav. Mrkng Epoxy Arrow Type 3 L.F.	647.0186 Pav. Mrkng Epoxy Arrow Type 4 L.F.	647.0256 Pav. Mrkng Epoxy Symbols (Diamonds) L.F.	647.0356 Pav. Mrkng Epoxy Word (Only) L.F.	647.0566 Pav. Mrkng Epoxy Stop Line 18-IN L.F.	647.0746 Pav. Mrkng Epoxy Diagonal 24-IN L.F.	646.0726 Pav. Mrkng Epoxy Diagonal 12-IN L.F.	646.0126 Pav. Mrkng Epoxy Chan. 8- IN L.F.	Remarks:
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Washington USH 41 Wauk Co (CTH Q) to Dodge Co (STH 28) 28.4

Interchange:

Co. Line Rd , Q

Off ramp NB
Approaching - (*) on ramp NB
(*) Off ramp SB
Approaching - (*) on ramp SB

3	2	1		3	26	241		
1				1	40			140
1	1	1			48	130		
2			0	1	100			320

Do not expoxy Diamond symbol

Lannon Rd / STH 167 (East)

Off ramp NB
Approaching - on ramp NB
Off ramp SB
Approaching - on ramp SB

4	2	1		4	44	110		
4				4	20			625
2	2	1		2	16	115		
5				5	45			1350

STH 167 (West)/ holly Hill Rd

Off ramp NB
Approaching - (*) on ramp NB
Off ramp SB
Approaching - (*) on ramp SB

		3			18	225		
1				1	24			60
		3				142		
1				1				275

USH 45 & USH 41 Split

Approaching NB split
Approaching SB split

						920		
						745		

STH 145

0	0	0	0	0	0	0		0
---	---	---	---	---	---	---	--	---

OMIT
STH 145 INTER. from this project
(Special Marking looks o.k.)

STH 60

Off ramp NB
Approaching - on ramp NB
* Off ramp SB
Approaching - on ramp SB

		2				190		
2				2				250
		3			35	60		
1				1				75

2-NEW (TYPE 4) ARROWS

STH 144

0	0	0	0	0	0	0		0
---	---	---	---	---	---	---	--	---

OMIT
STH 144 INTER. from this project
(2014 CONSTRUCTION)

Special Pavement Marking - 2014

Var. Hwy (1000-77-12)

SE Region

INFORMATION ONLY

County	Hwy	Location	Total Miles	647.0166 Pav. Mrkng Epoxy Arrow Type 2 L.F.	647.0176 Pav. Mrkng Epoxy Arrow Type 3 L.F.	647.0186 Pav. Mrkng Epoxy Arrow Type 4 L.F.	647.0256 Pav. Mrkng Epoxy Symbols (Diamonds) L.F.	647.0356 Pav. Mrkng Epoxy Word (Only) L.F.	647.0566 Pav. Mrkng Epoxy Stop Line 18-IN L.F.	647.0746 Pav. Mrkng Epoxy Diagonal 24-IN L.F.	646.0726 Pav. Mrkng Epoxy Diagonal 12-IN L.F.	646.0126 Pav. Mrkng Epoxy Chan. 8- IN L.F.	Remarks:																																																																																																												
CTH K Off ramp NB Approaching - on ramp NB Off ramp SB Approaching - on ramp SB <table> <tr><td></td><td></td><td>3</td><td></td><td></td><td>28</td><td>235</td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td>3</td><td></td><td></td><td></td><td>290</td></tr> <tr><td></td><td></td><td>3</td><td></td><td></td><td>30</td><td>375</td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td>3</td><td></td><td></td><td></td><td>225</td></tr> </table> STH 33/ CTH W Off ramp NB Approaching - (*) on ramp NB Off ramp SB Approaching - (*) on ramp SB <table> <tr><td></td><td></td><td>2</td><td></td><td></td><td>33</td><td>200</td><td></td><td></td></tr> <tr><td></td><td>2</td><td></td><td></td><td>2</td><td></td><td></td><td></td><td>230</td></tr> <tr><td></td><td></td><td>2</td><td></td><td></td><td>40</td><td>175</td><td></td><td></td></tr> <tr><td></td><td>2</td><td></td><td></td><td>2</td><td></td><td></td><td></td><td>206</td></tr> </table> CTH D (*)Off ramp NB Approaching - on ramp NB (*) Off ramp SB Approaching - on ramp SB <table> <tr><td>1</td><td>1</td><td>1</td><td></td><td></td><td>33</td><td>275</td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td>3</td><td></td><td></td><td></td><td>307</td></tr> <tr><td>1</td><td>1</td><td>1</td><td></td><td></td><td>30</td><td>410</td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td>3</td><td></td><td></td><td></td><td>410</td></tr> </table> STH 28 00000000 OMIT STH 28 INTERCHANGE																3			28	235			3				3				290			3			30	375			3				3				225			2			33	200				2			2				230			2			40	175				2			2				206	1	1	1			33	275			3				3				307	1	1	1			30	410			3				3				410
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3				3				410																																																																																																																	
Washington	USH 41	Wauk Co (CTH Q) to Dodge Co (STH 28)	28.4	41	13	27	0	41	610	4548		4763																																																																																																													

(*)- INDICATES THAT NEW MARKINGS ARE ADDED; WISDOT FIELD MANAGER SHALL ASSIST WITH THE LOCATIONS .

Special Pavement Marking - 2014 Var. Hwy (1000-77-12)															
SE Region															
INFORMATION ONLY															
County	Hwy	Location	Total Miles	647.0166 Pav. Mrkng Epoxy Arrow Type 2 EA.	647.0176 Pav. Mrkng Epoxy Arrow Type 3 EA.	647.0186 Pav. Mrkng Epoxy Arrow Type 4 EA.	647.0256 Pav. Mrkng Epoxy Symbols (Diamonds) EA.	647.0356 Pav. Mrkng Epoxy Word (Only) EA.	647.0566 Pav. Mrkng Epoxy Stop Line 18-IN L.F.	647.0746 Pav. Mrkng Epoxy Diagonal 24-IN L.F.	646.0726 Pav. Mrkng Epoxy Diagonal 12-IN L.F.	646.0126 Pav. Mrkng Epoxy Chan. 8- IN L.F.	647.0766 Pav. Mrkng Epoxy Cross walk 6- IN L.F.	Remarks:	
Washington Co	STH 60	US 41 to Powder Hill Rd	3.2												
		USH 41 INTERCHANGE		0				0	0						
		MEDIAN		12				0	0						
		LOVER LN		8				5	140						
		ENTERPRISE DR		5				5	24						
		MEDIAN		3				1	0						
		LOUS WAY		0				0	0						
		STH 175		3				3	175						
		INDUSTRIAL DR		2				2	0						
		SLINGER RD		4				4	0						
		MEDIAN		8				0	0						
		WHEEL ESTATEE		0				0	0						
		PARKWAY DR		1				1	0						
		KETTLE MORaine DR S		5				5	150						
		MEDIAN		6				0							
		(*) CHAROLAIS DR		1				1	0						
		KETTLE VIEW CT		2				2	0						
		MEDIAN		8				0	0						
		POWDER HILL RD		1				1	0						
Washington Co	STH 60	US 41 to Powder Hill Rd	3.2	69	0	0	0	30	489	0		0	0		

(*)- INDICATES THAT NEW MARKINGS ARE ADDED; WISDOT FIELD MANAGER SHALL ASSIST WITH THE LOCATIONS .

Special Pavement Marking - 2014
Var. Hwy (1000-77-12)
SE Region

INFORMATION ONLY

County	Hwy	Location	Total Miles	647.0166 Pav. Mrkng Epoxy Arrow Type 2 EA.	647.0176 Pav. Mrkng Epoxy Arrow Type 3 EA.	647.0186 Pav. Mrkng Epoxy Arrow Type 4 EA.	647.0256 Pav. Mrkng Epoxy Symbols (Diamonds) EA.	647.0356 Pav. Mrkng Epoxy Word (Only) EA.	647.0566 Pav. Mrkng Epoxy Stop Line 18-IN L.F.	647.0746 Pav. Mrkng Epoxy Diagonal 24-IN L.F.	646.0726 Pav. Mrkng Epoxy Diagonal 12-IN L.F.	646.0126 Pav. Mrkng Epoxy Chan. 8- IN L.F.	647.0766 Pav. Mrkng Epoxy Cross walk 6- IN L.F.	Remarks:
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Wash. US 45 US 41 to CTH H-West Jct (Mohawk Rd) 17.2

Interchange:

STH 145

0	0	0	0	0	0	0		0	0
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OMIT
STH 145 INTER. from this project
Special Markings looks O.K.

STH 60

0	0	0	0	0	0	0		0	0
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OMIT
STH 60, INTER. from this project
Special Markings looks fairly new

Pleasant Valley Rd

Off ramp NB
Approaching - on ramp NB
Off ramp SB
Approaching - on ramp SB

		3			12	100			
4				2				260	
		3			20	125			
4				2				250	

W Paradise Dr

Off ramp NB
Approaching - on ramp NB
Off ramp SB
Approaching - on ramp SB

4		2		4	52	108			
8				8	76	30		630	
4	2	1		4	24	130			
6				6	41			450	

W Washington St

Off ramp NB
Approaching - (*)on ramp NB
Off ramp SB
Approaching - (*) on ramp SB

		3			15	110			
4				2				450	
		3			17	115			
4				2				350	

CTH D

Off ramp NB
Approaching - (*)on ramp NB
Off ramp SB
Approaching - (*) on ramp SB

		3			15	90			
4				2				375	
		3			15	150			
4				2				400	

Special Pavement Marking - 2014
Var. Hwy (1000-77-12)
SE Region

INFORMATION ONLY

County	Hwy	Location	Total Miles	647.0166 Pav. Mrkng Epoxy Arrow Type 2 EA.	647.0176 Pav. Mrkng Epoxy Arrow Type 3 EA.	647.0186 Pav. Mrkng Epoxy Arrow Type 4 EA.	647.0256 Pav. Mrkng Epoxy Symbols (Diamonds) EA.	647.0356 Pav. Mrkng Epoxy Word (Only) EA.	647.0566 Pav. Mrkng Epoxy Stop Line 18-IN L.F.	647.0746 Pav. Mrkng Epoxy Diagonal 24-IN L.F.	646.0726 Pav. Mrkng Epoxy Diagonal 12-IN L.F.	646.0126 Pav. Mrkng Epoxy Chan. 8- IN L.F.	647.0766 Pav. Mrkng Epoxy Cross walk 6- IN L.F.	Remarks:
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Intersections:

Friendly Dr

USH 45 & CTH H (East)

NB & SB
EB & WB

Trading Post Ln

Sandy Rigde Rd

Median

Prospect Dr

Trimblin Dr

Median

Fond du Lac Ave / CTH H (West)

4				2	48							260	
3				3	64								
2				2									
4													
5				3							200		
3				2									
4													
6				4	102					45	460	415	

shington	US 45	US 41 to CTH H-West Jct (Mohawk Rd)	17.2	77	2	21	0	50	501	958	45	3825	675
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(*)- INDICATES THAT NEW MARKINGS ARE ADDED; WISDOT FIELD MANAGER SHALL ASSIST WITH THE LOCATIONS .

Special Pavement Marking - 2014 Var. Hwy (1000-77-12) SE Region															
INFORMATION ONLY															
County	Hwy	Location	Total Miles	647.0166 Pav. Mrkng Epoxy Arrow Type 2 EA.	647.0176 Pav. Mrkng Epoxy Arrow Type 3 EA.	647.0186 Pav. Mrkng Epoxy Arrow Type 4 EA.	647.0256 Pav. Mrkng Epoxy Symbols (Diamonds) EA.	647.0356 Pav. Mrkng Epoxy Word (Only) EA.	647.0566 Pav. Mrkng Epoxy Stop Line 18-IN L.F.	647.0746 Pav. Mrkng Epoxy Diagonal 24-IN L.F.	646.0726 Pav. Mrkng Epoxy Diagonal 12-IN L.F.	646.0126 Pav. Mrkng Epoxy Chan. 8- IN L.F.	647.0766 Pav. Mrkng Epoxy Cross walk 6- IN L.F.	Remarks:	
Milw.	STH181	Florist Ave to Milw Co. (Co. Line Rd)	4.5												
Intersections:															
W Florist Ave (signalized)									108		105		536		
W Winfield Ave									0		70		0		
W Mill Rd (signalized)									280		150		740		
Left turn median									0		110		0		
W Acacia St (signalized)									120		110		537		
W Green tree Rd (signalized)									154		145		600		
W Denver ave (T,signalized inter.)											110		0		
W Good Hope Rd (signalized)									360		0		850		
Left turn median									0		30		0		
W Clinton Ave (T, inter.)									0		80		0		
Left turn median									0		44		0		
W Calument Rd (signalized)									216		140		580		
W Lolita Ave (T, inter.)									0		65		0		
W Bradley Rd (signalized)									240		125		680		
W Tower Ave (T, signalized)									120		40		400		

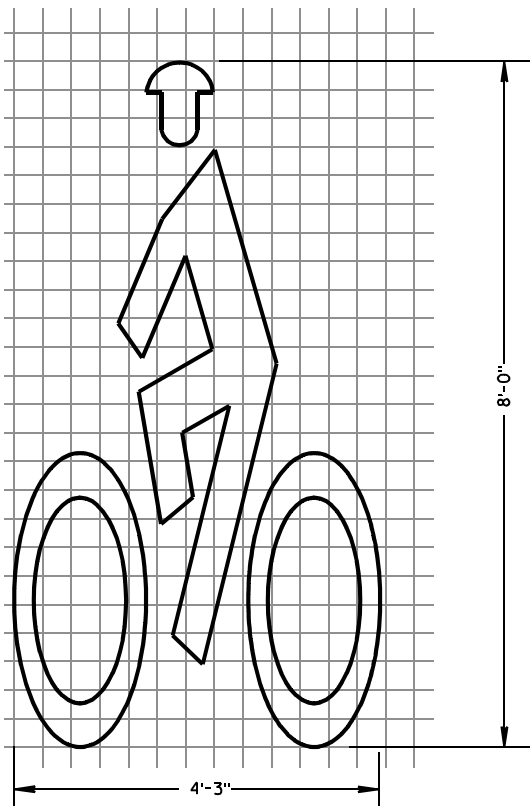
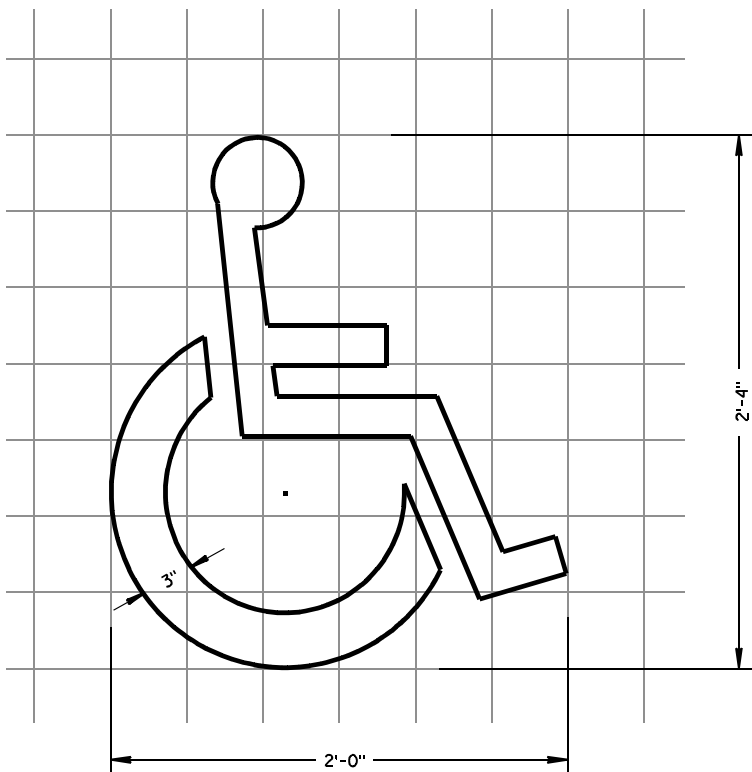
Special Pavement Marking - 2014														
Var. Hwy (1000-77-12)														
SE Region														
INFORMATION ONLY														
County	Hwy	Location	Total Miles	647.0166	647.0176	647.0186	647.0256	647.0356	647.0566	647.0746	646.0726	646.0126	647.0766	Remarks:
				Pav. Mrkng Epoxy Arrow Type 2 EA.	Pav. Mrkng Epoxy Arrow Type 3 EA.	Pav. Mrkng Epoxy Arrow Type 4 EA.	Pav. Mrkng Epoxy Symbols (Diamonds) EA.	Pav. Mrkng Epoxy Word (Only) EA.	Pav. Mrkng Epoxy Stop Line 18-IN L.F.	Pav. Mrkng Epoxy Diagonal 24-IN L.F.	Pav. Mrkng Epoxy Diagonal 12-IN L.F.	Pav. Mrkng Epoxy Chan. 8- IN L.F.	Pav. Mrkng Epoxy Cross walk 6- IN L.F.	
		W Dean Rd (signalized)							192		71		514	
		N 76th Pl (T, inter)							0		45		0	
		<u>Interchange:</u>												
		STH 100 (W. Brown Deer Rd)									1526			
		Off ramp NB		1	1			1	37				84	
		Approaching - on ramp NB										100	46	
		Off ramp SB		1	1			1	41				104	
		Approaching - on ramp SB										100	54	
		Northridge Dr. Way (T, signalized)							114		80		400	
		W Northridge Lakes Blvd (signalized)							210		85		590	
		Northridge Dr. Way (T, inter.)		1				1	0		60		0	
		W Glenbrook Rd (T, inter.)		1				1	0		60		0	
		W County Line Rd (CTH Q)		4				4	160		0		0	
waukee	STH181	Florist Ave to Milw Co. (Co. Line Rd)	4.5	8	2	0	0	8	2352	0	3251	200	6715	

Special Pavement Marking - 2014 Var. Hwy (1000-77-12) SE Region				INFORMATION ONLY											
				Total Miles	647.0166 Pav. Mrkng	647.0176 Pav. Mrkng	647.0186 Pav. Mrkng	647.0256 Pav. Mrkng	647.0356 Pav. Mrkng	647.0566 Pav. Mrkng	647.0746 Pav. Mrkng	646.0726 Pav. Mrkng	646.0126 Pav. Mrkng	647.0766 Pav. Mrkng	
County	Hwy	Location	Epoxy Arrow Type 2 EA.		Epoxy Arrow Type 3 EA.	Epoxy Arrow Type 4 EA.	Epoxy Symbols (Diamonds) EA.	Epoxy Word (Only) EA.	Epoxy Stop Line 18-IN L.F.	Epoxy Diagonal 24-IN L.F.	Epoxy Diagonal 12-IN L.F.	Epoxy Chan. 8- IN L.F.	Epoxy Cross walk 6- IN L.F.	Remarks:	
Milwaukee Co.	US 41	900' S. of Good Hope Rd to Wauk Co.	1.3	Interchange: W Goodhope Rd Off ramp NB Approaching - on ramp NB Off ramp SB Approaching - (2) on ramp SB Wauk.Co. Line (124th Str) Off ramp NB Approaching - on ramp NB Off ramp SB Approaching - on ramp SB											
Milwaukee Co.	US 41	900' S. of Good Hope Rd to Wauk Co.	1.3	10	2	3	27	7	303	565	225	2083	0		

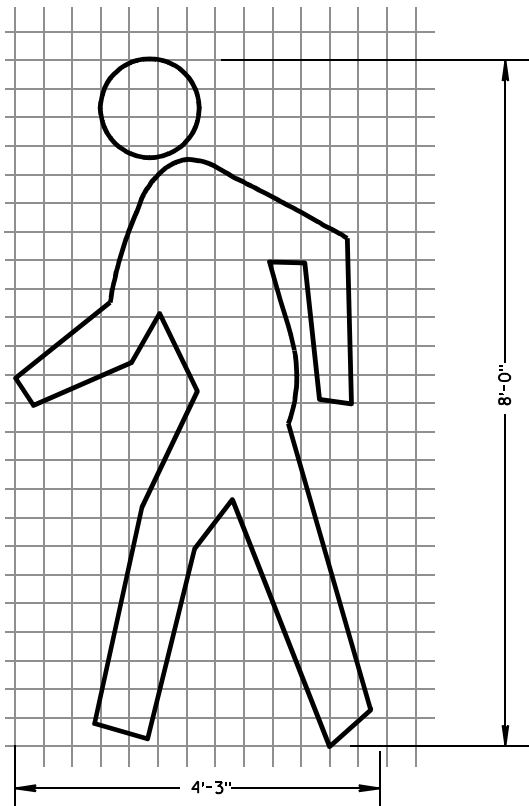
Special Pavement Marking - 2014 Var. Hwy (1000-77-12) SE Region														
INFORMATION ONLY														
County	Hwy	Location	Total Miles	647.0166 Pav. Mrkng Epoxy Arrow Type 2 EA.	647.0176 Pav. Mrkng Epoxy Arrow Type 3 EA.	647.0186 Pav. Mrkng Epoxy Arrow Type 4 EA.	647.0256 Pav. Mrkng Epoxy Symbols (Diamonds) EA.	647.0356 Pav. Mrkng Epoxy Word (Only) EA.	647.0566 Pav. Mrkng Epoxy Stop Line 18-IN L.F.	647.0746 Pav. Mrkng Epoxy Diagonal 24-IN L.F.	646.0726 Pav. Mrkng Epoxy Diagonal 12-IN L.F.	646.0126 Pav. Mrkng Epoxy Chan. 8- IN L.F.	647.0766 Pav. Mrkng Epoxy Cross walk 6- IN L.F.	Remarks:
Milwaukee Co.	STH 341	I-94 (South End) to STH 59 (W National Ave)	.9											
Interchange: Frederick Miller Way Off ramp NB Approaching - on ramp NB Off ramp SB Approaching - on ramp SB W National Ave (STH 59) Off ramp NB Approaching - on ramp NB Off ramp SB Approaching - on ramp SB														
Milwaukee Co.	STH 341	I-94 (South End) to STH 59 (W National Ave)	.9	22	3	6	0	20	313	0	25	570	0	

Standard Detail Drawing List

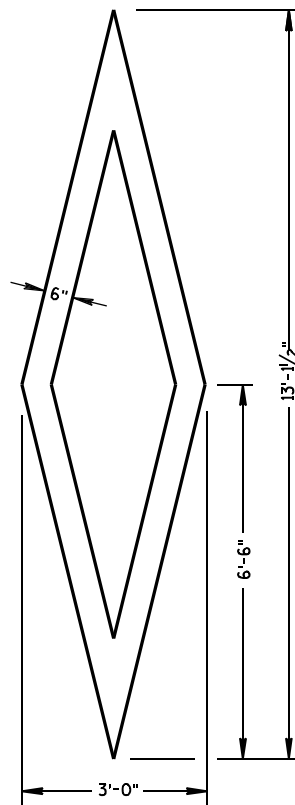
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15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15C31-01C	PAVEMENT MARKING MAJOR SPLIT FREEWAY TO FREEWAY
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D12-03	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.



BIKE CROSSING SYMBOL



PEDESTRIAN SYMBOL



PREFERENTIAL
LANE SYMBOL

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.

ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11
DATE

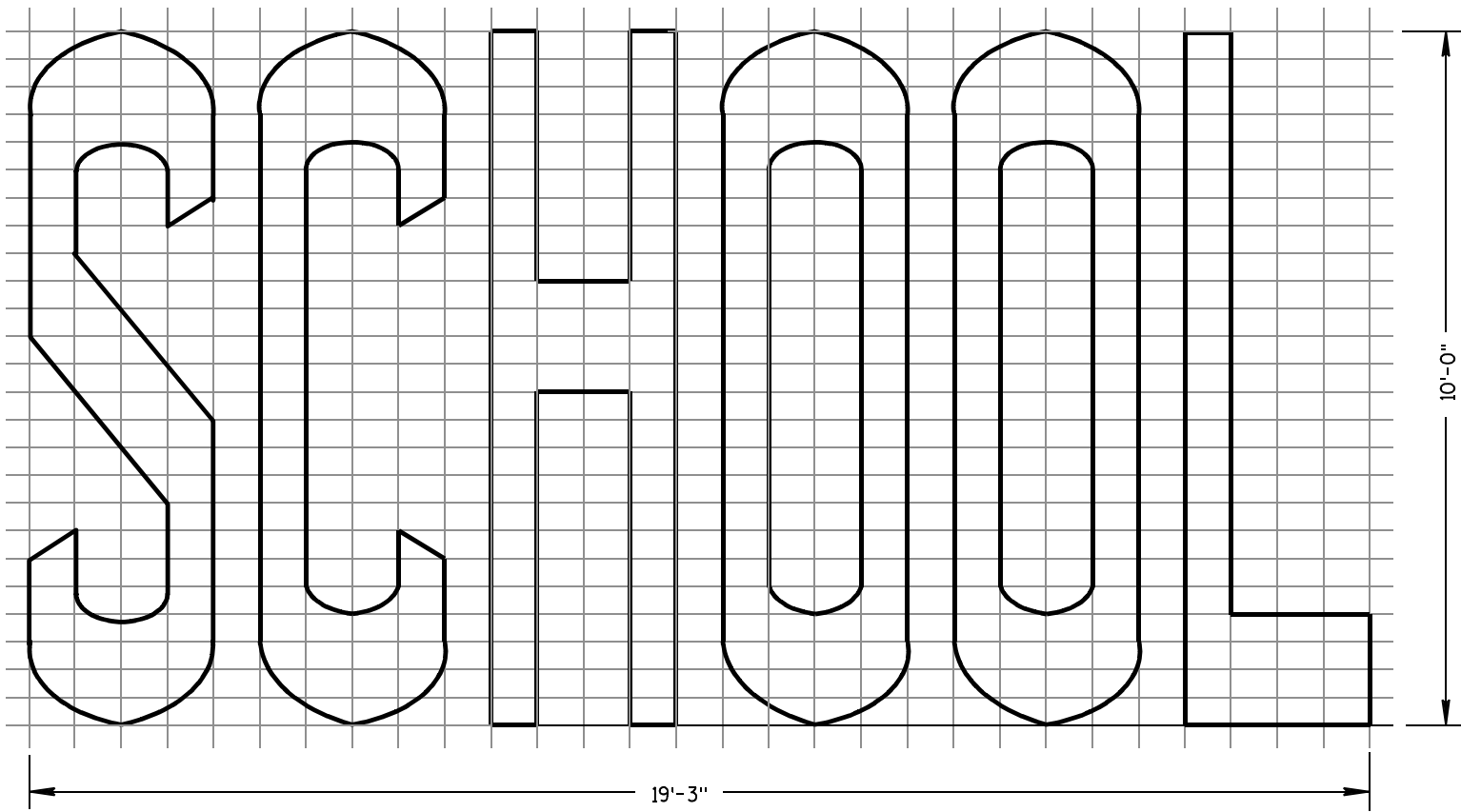
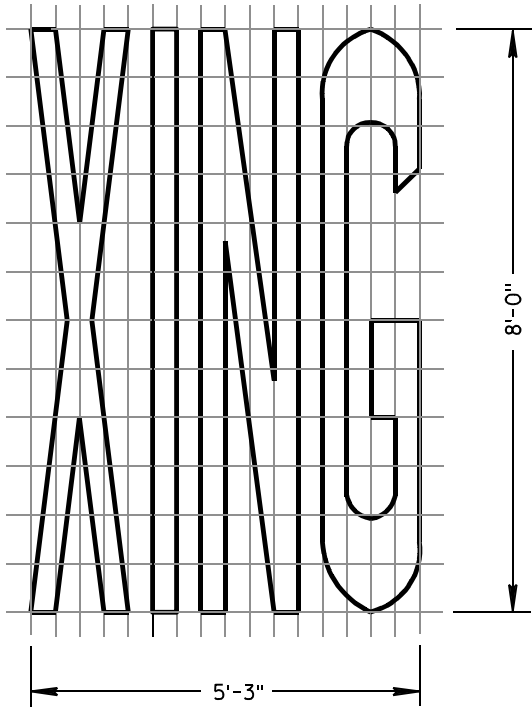
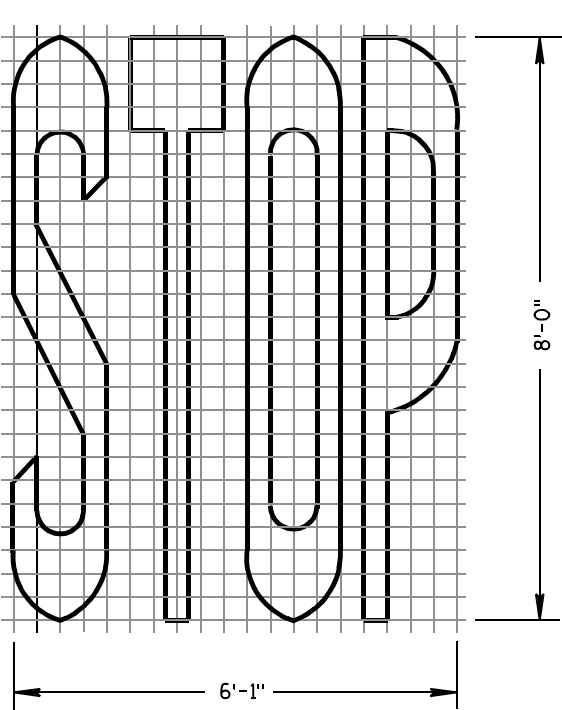
/S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER OF DESIGN

FHWA

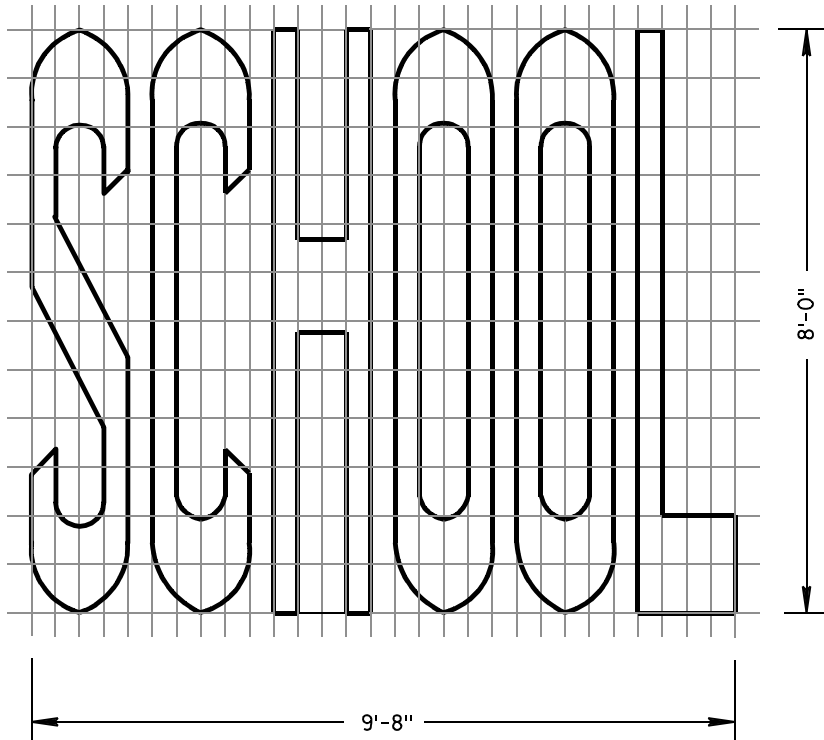
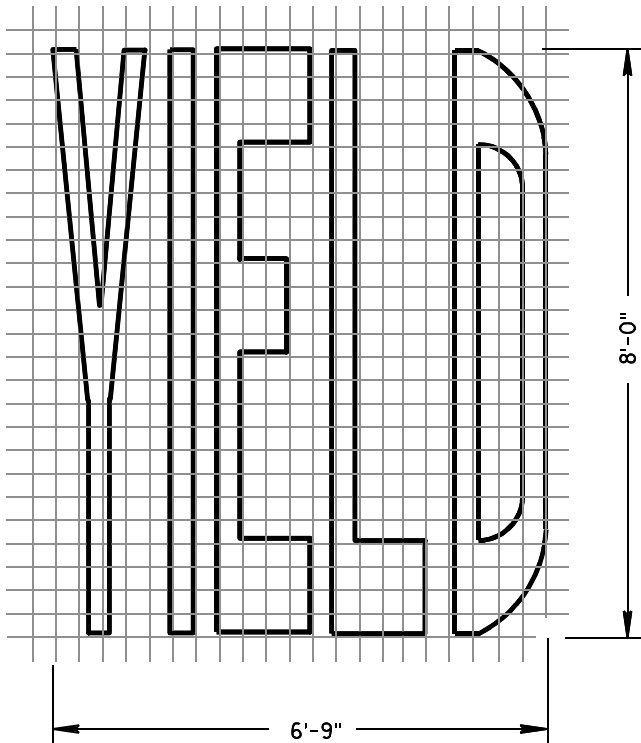
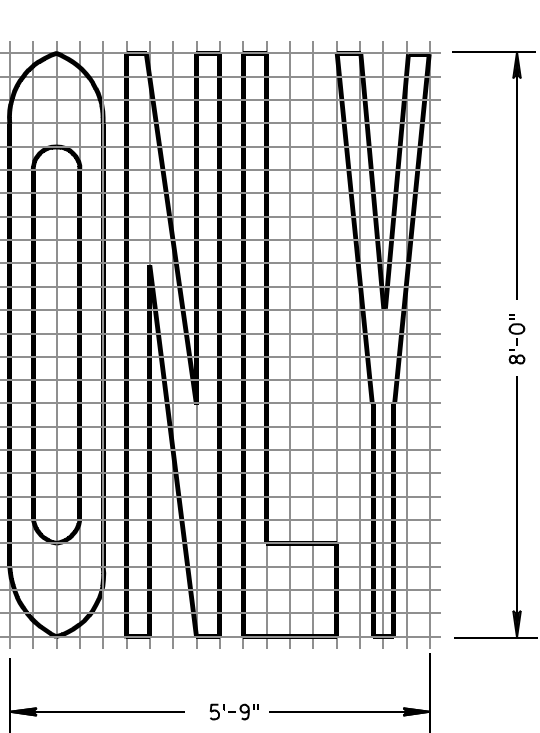
GENERAL NOTES

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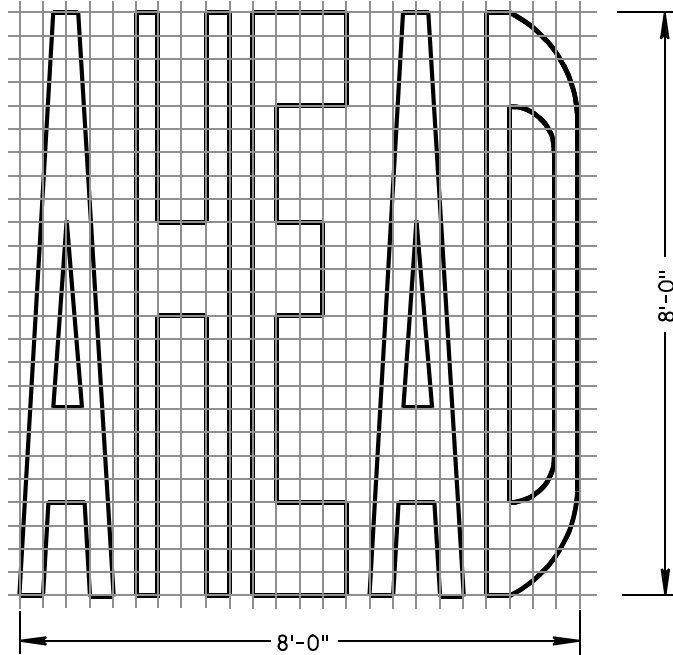
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TWO-LANE



SINGLE-LANE



PAVEMENT MARKING WORDS

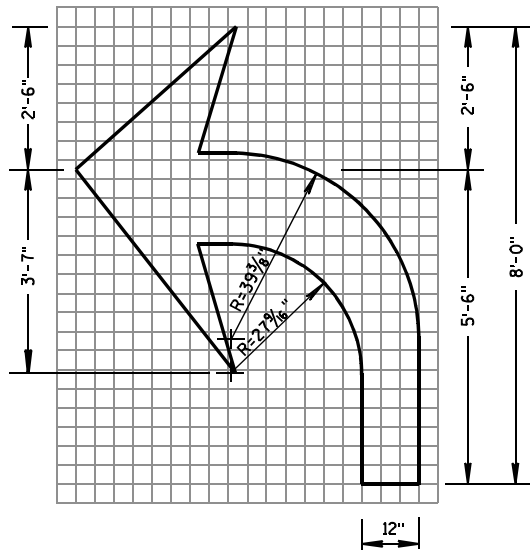
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

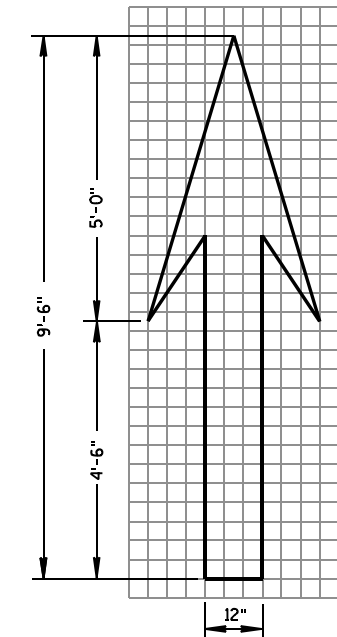
7-1-11
DATE

/S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER OF DESIGN

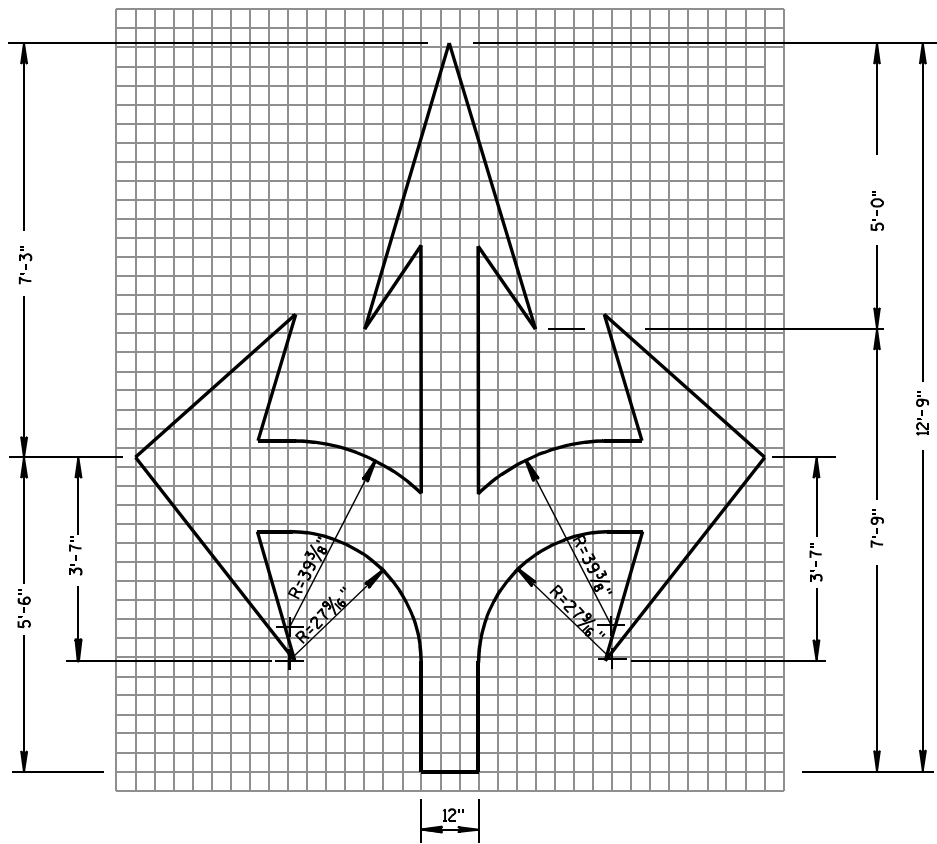
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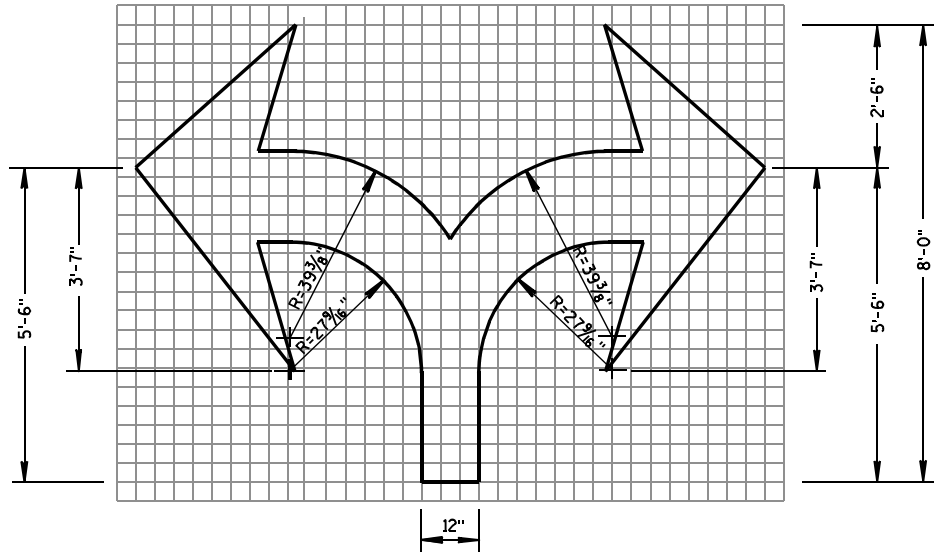
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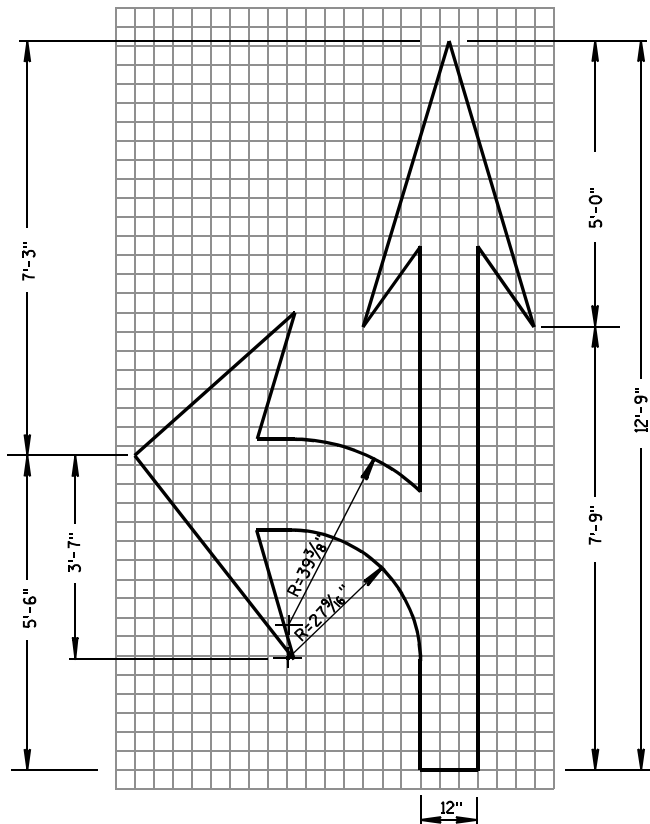
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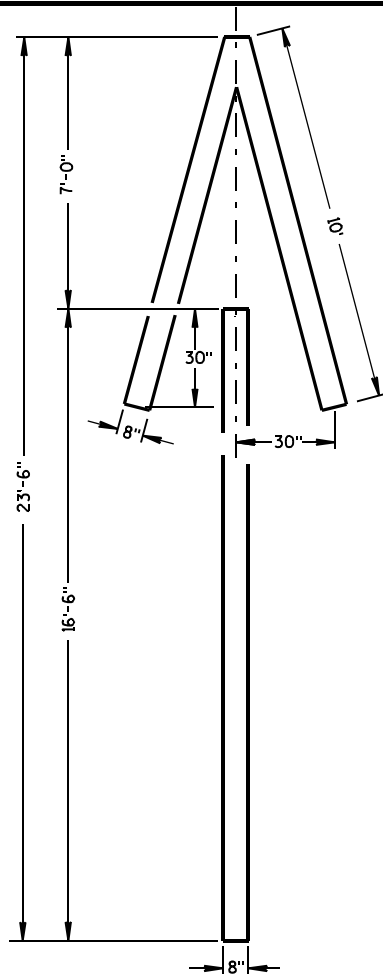
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TYPE 7



TYPE 3

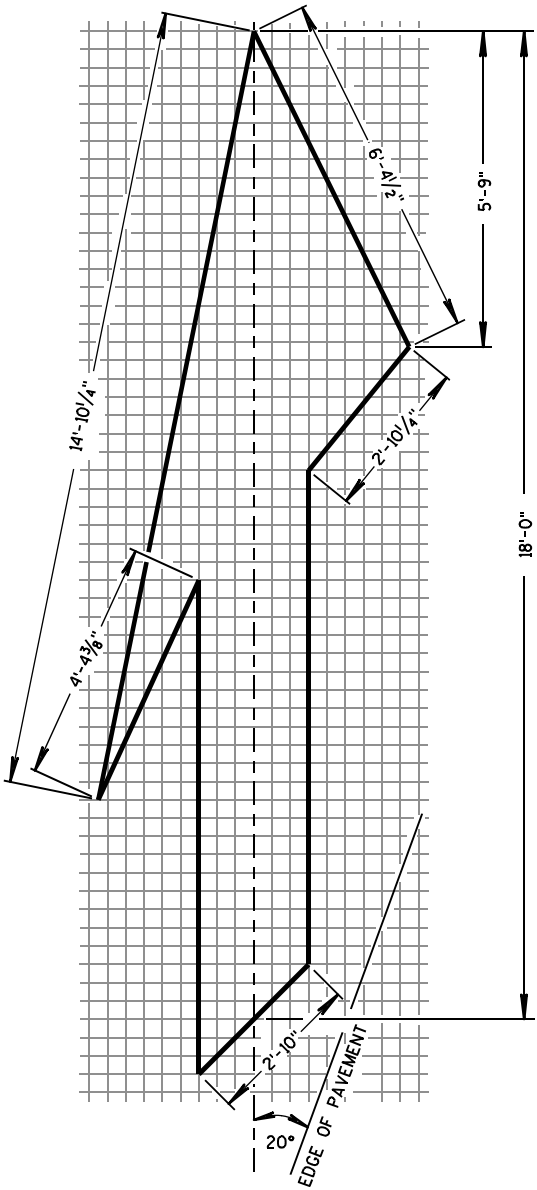


TYPE 4

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.

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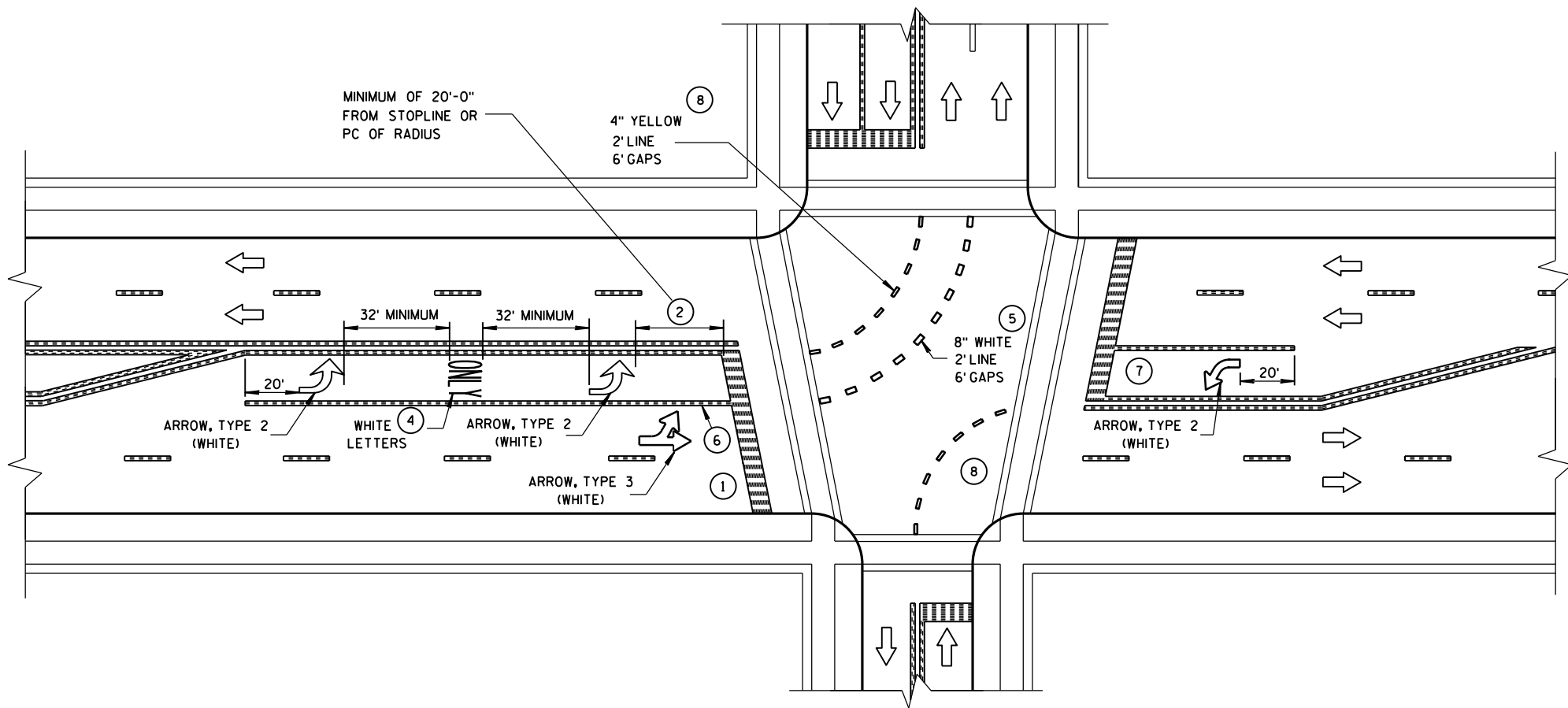


TYPE 5 LANE DROP ARROW

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

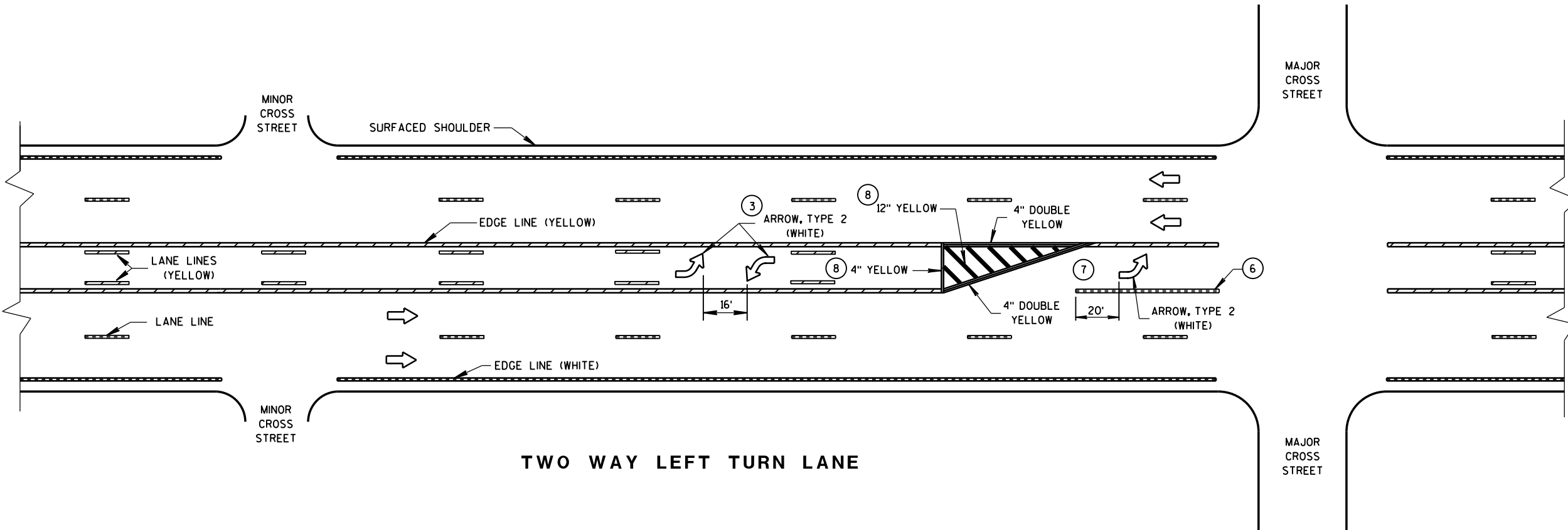
APPROVED
7/1/11
DATE
/S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER OF DESIGN
FHWA



GENERAL NOTES

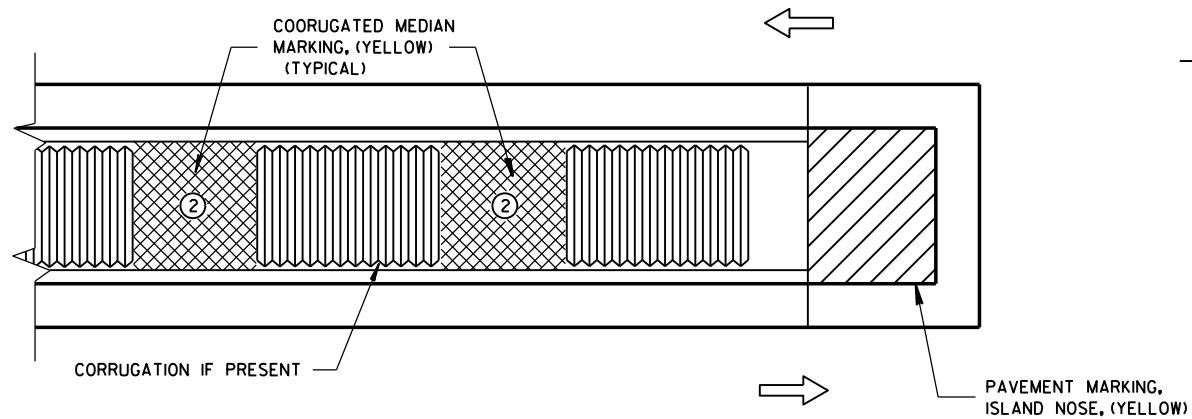
- 1 STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- 2 DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
- 3 A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- 4 ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
- 5 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
- 6 8" WHITE
- 7 ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
- 8 REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (➡)
SHOWS DIRECTION OF TRAVEL

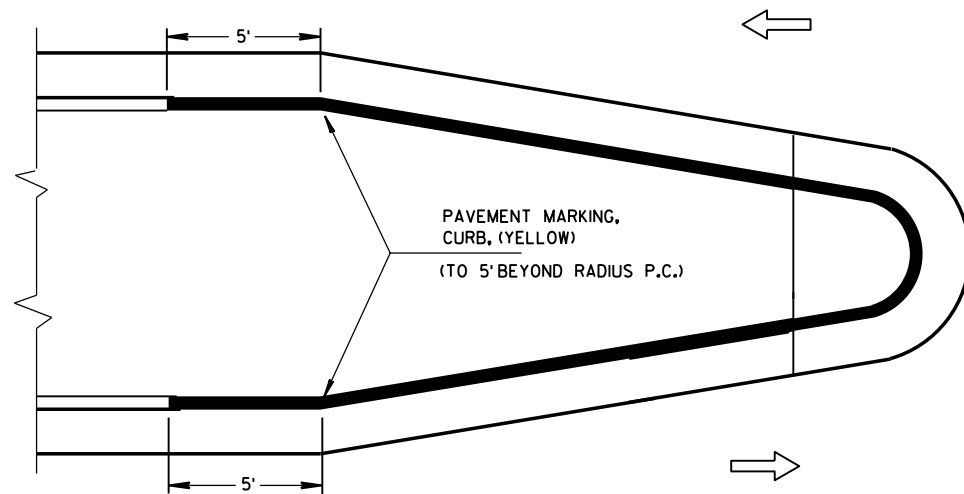


PAVEMENT MARKING
(LEFT TURN LANE)

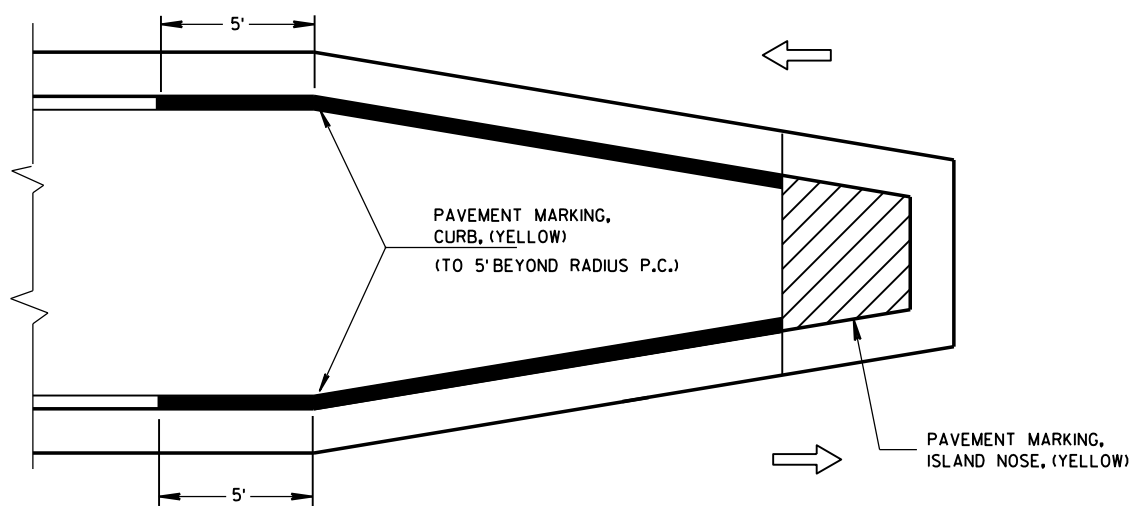
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

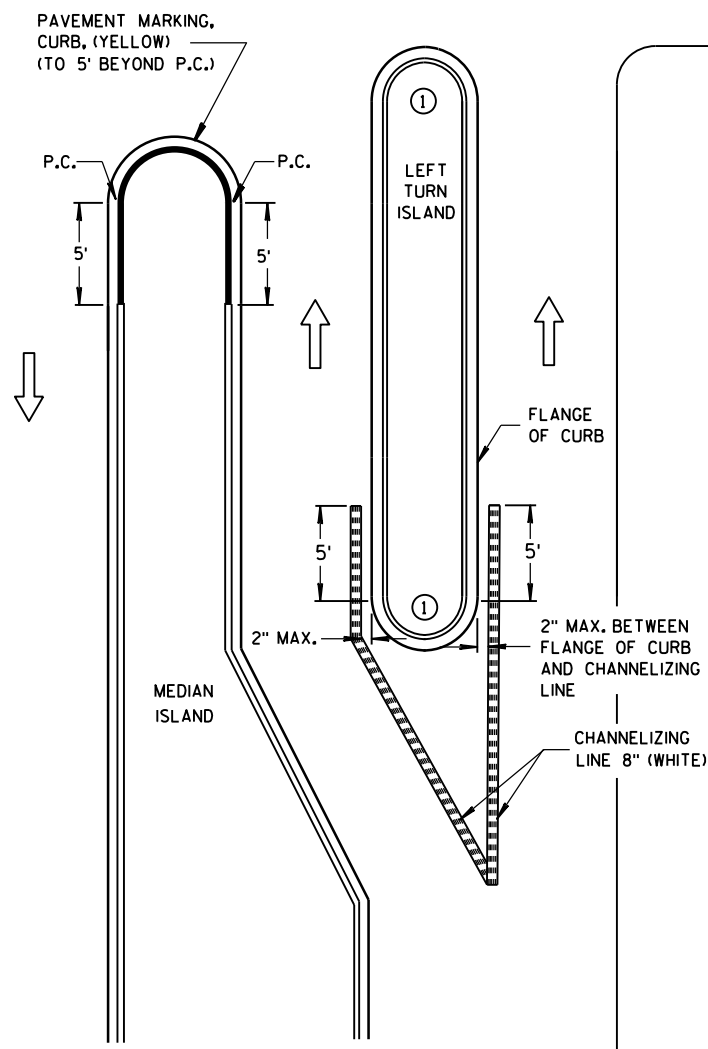


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

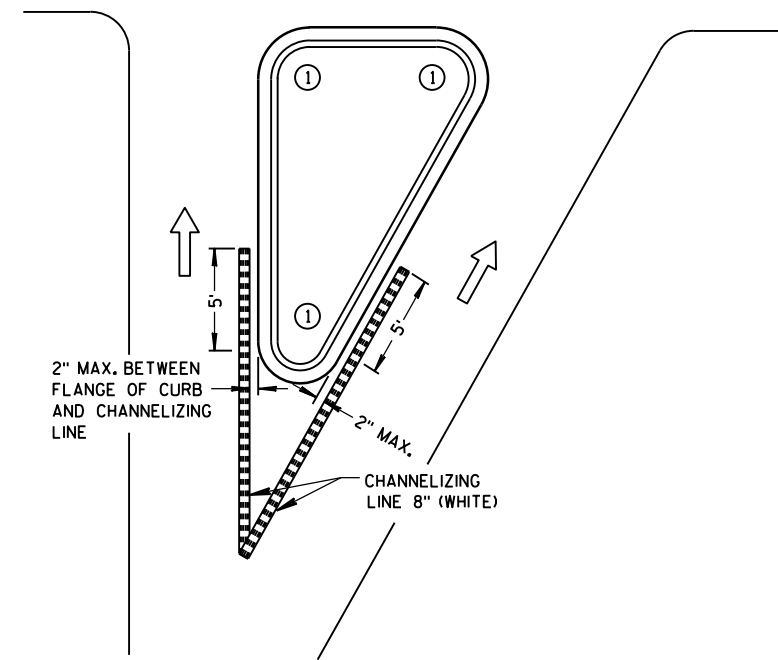
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

- DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
- 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.



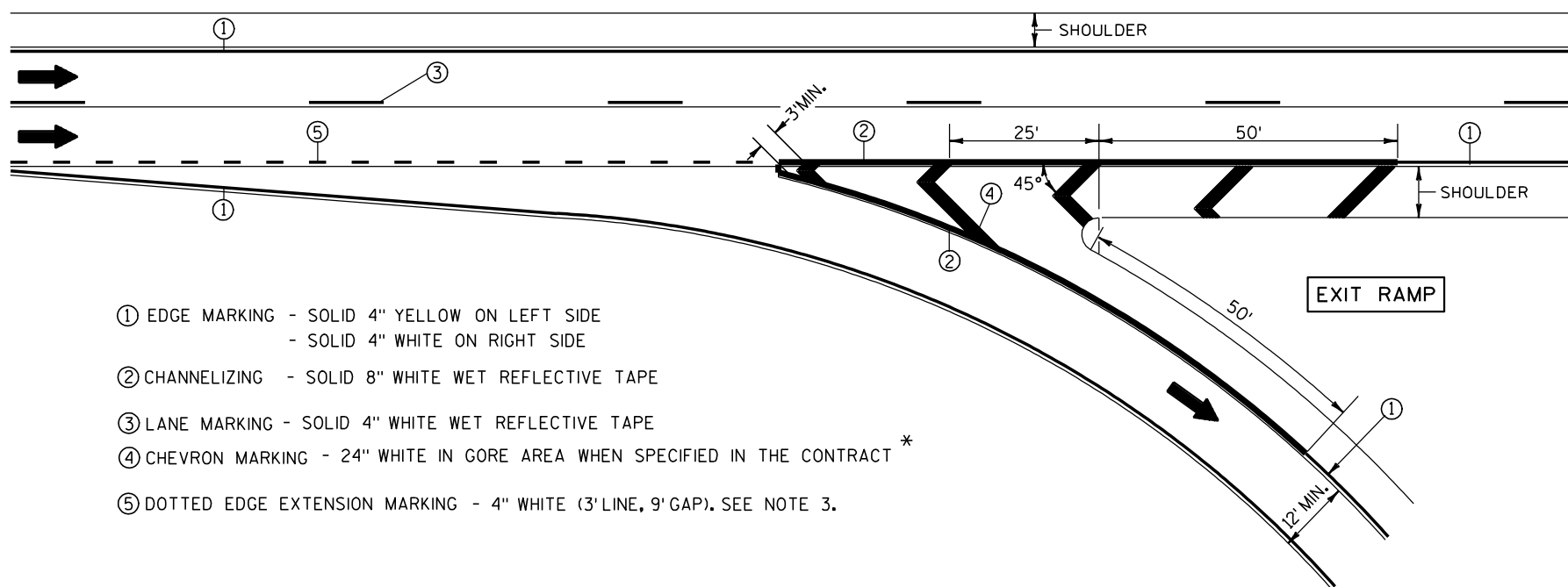
RIGHT TURN ISLAND

LEGEND

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

PAVEMENT MARKING (ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

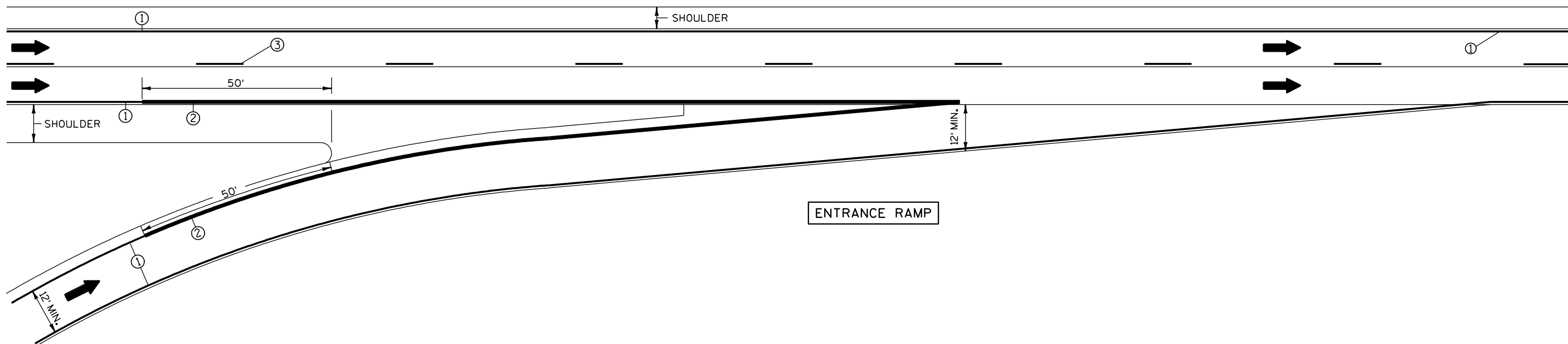


- ① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
- SOLID 4" WHITE ON RIGHT SIDE
- ② CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE
- ③ LANE MARKING - SOLID 4" WHITE WET REFLECTIVE TAPE
- ④ CHEVRON MARKING - 24" WHITE IN GORE AREA WHEN SPECIFIED IN THE CONTRACT *
- ⑤ DOTTED EDGE EXTENSION MARKING - 4" WHITE (3' LINE, 9' GAP). SEE NOTE 3.

NOTES:

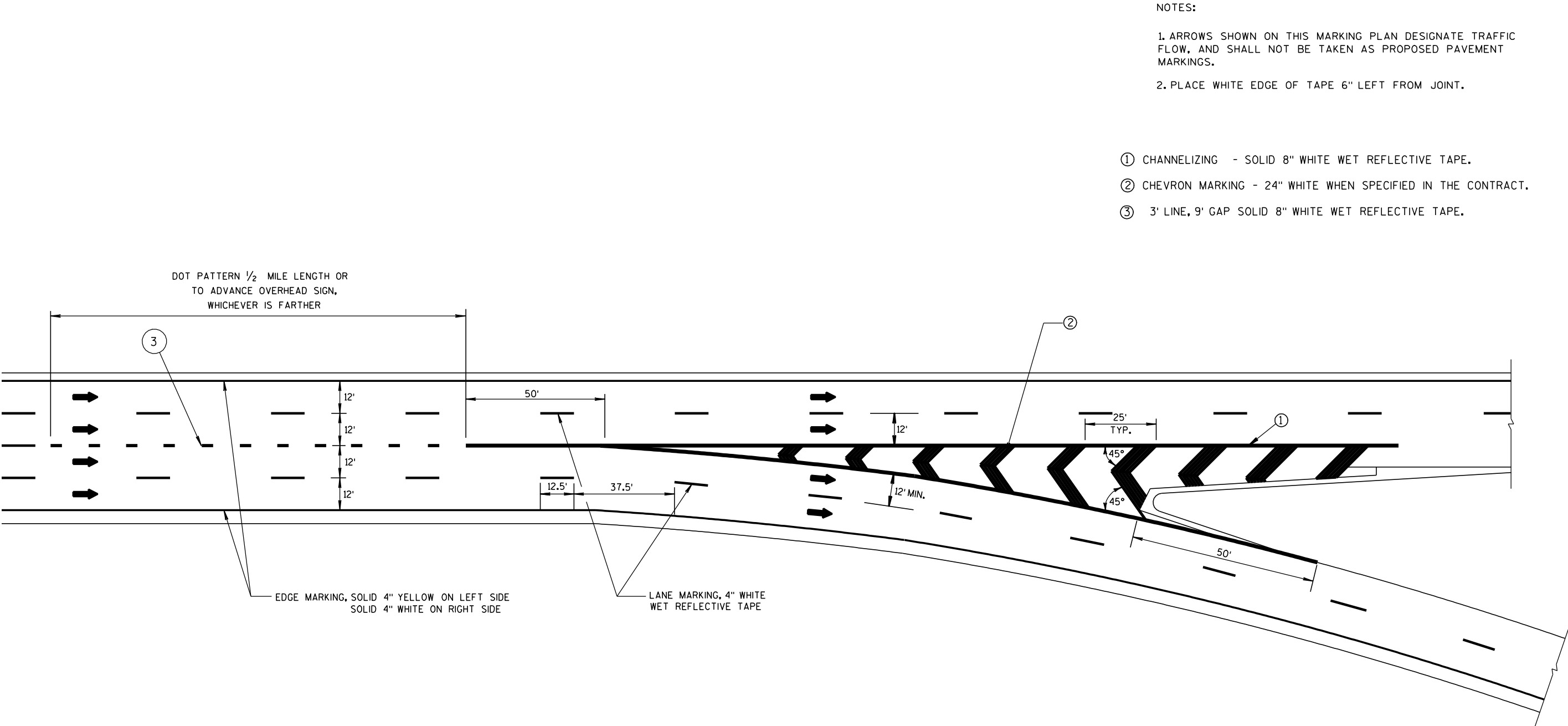
- 1. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
- 2. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.
- 3. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- 4. RETRACE EXISTING DIAGONAL MARKINGS.

* REFER TO DESIGN NOTES.



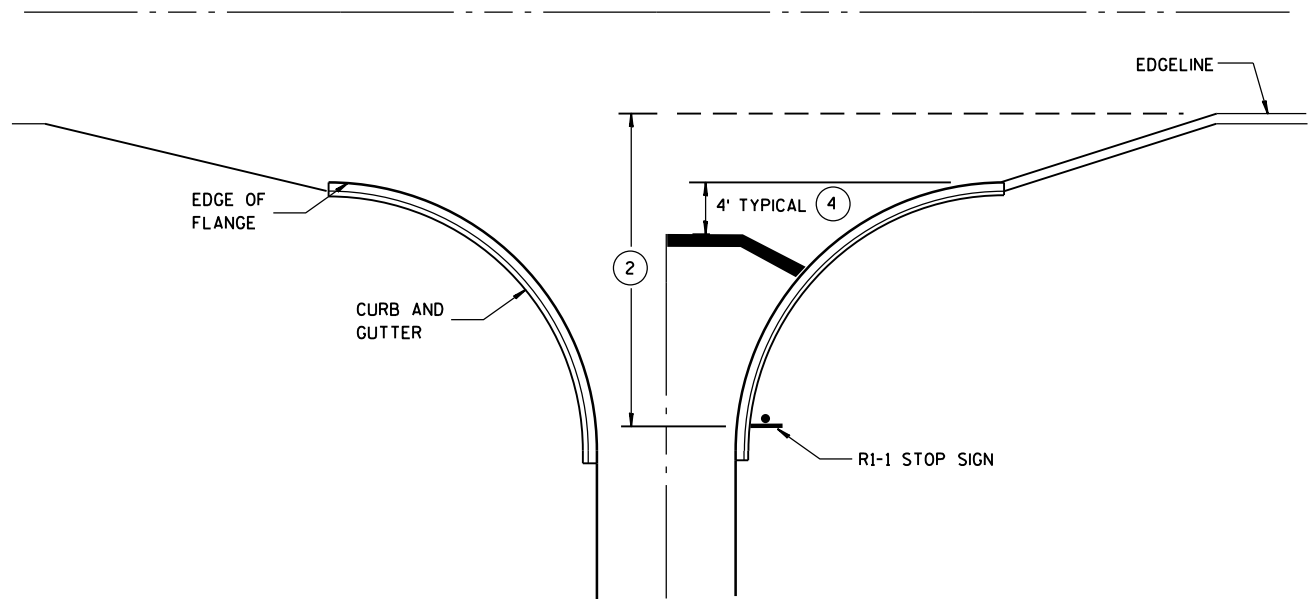
PAVEMENT MARKING
(RAMPS AND GORES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

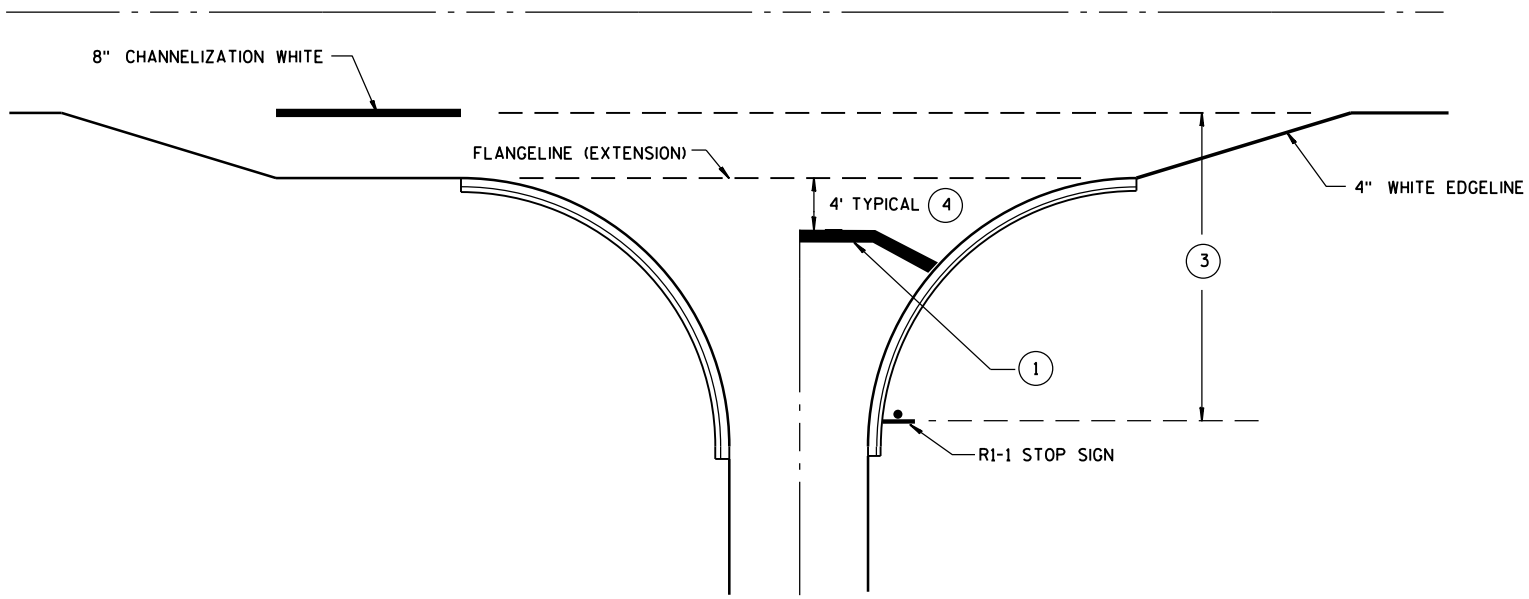


PAVEMENT MARKING
MAJOR SPLIT
FREEWAY TO FREEWAY

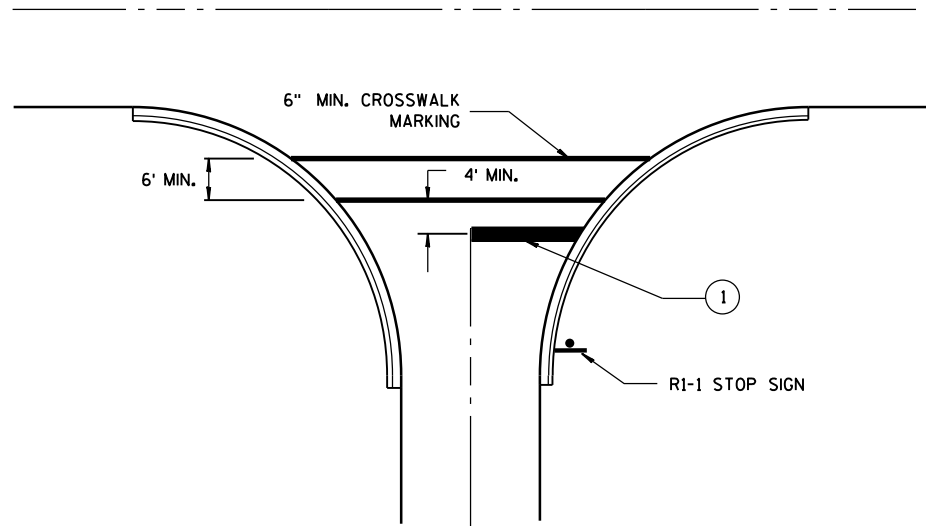
STATE OF WISCONSIN
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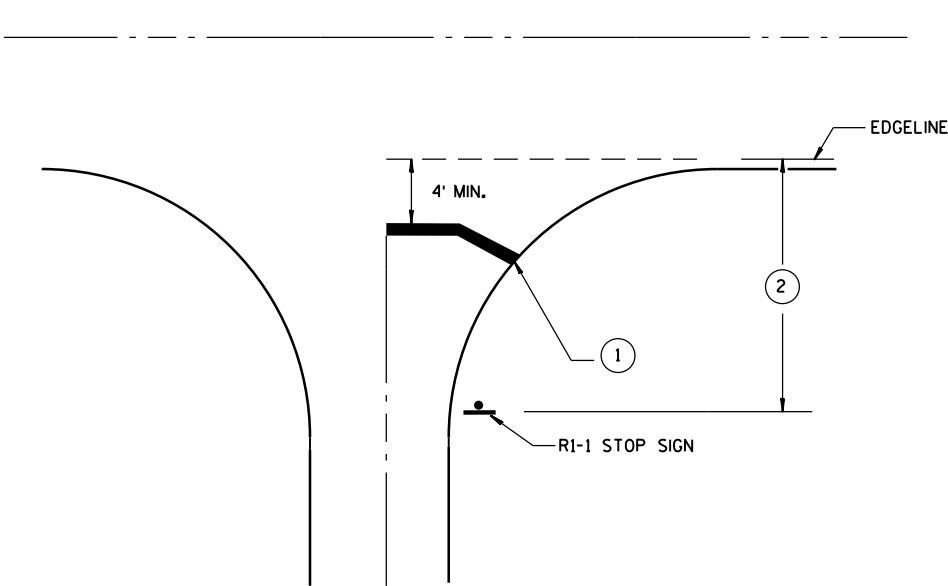
TYPICAL STOP LINE PAVEMENT MARKING
WITH CURB AND GUTTER



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

GENERAL NOTES

- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGE LINE THAN NO STOP LINE IS REQUIRED.
- ③ IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
- ④ MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK
PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/30/2013 DATE /S/ Travis Feltz
STATE TRAFFIC ENGINEER
FHWA

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- POST WITH ATTACHED SIGN IN DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

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 DESIREABLE) DISTANCE TO EXISTING SIGNS.

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

ALL SIGNS ARE 48"x48" 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 AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

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.

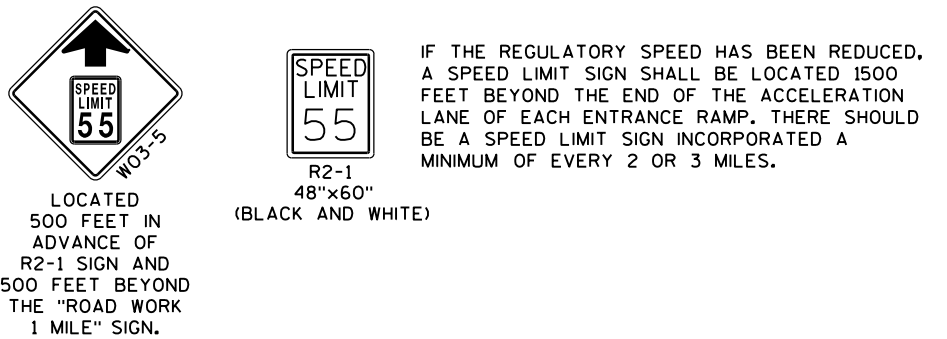
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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

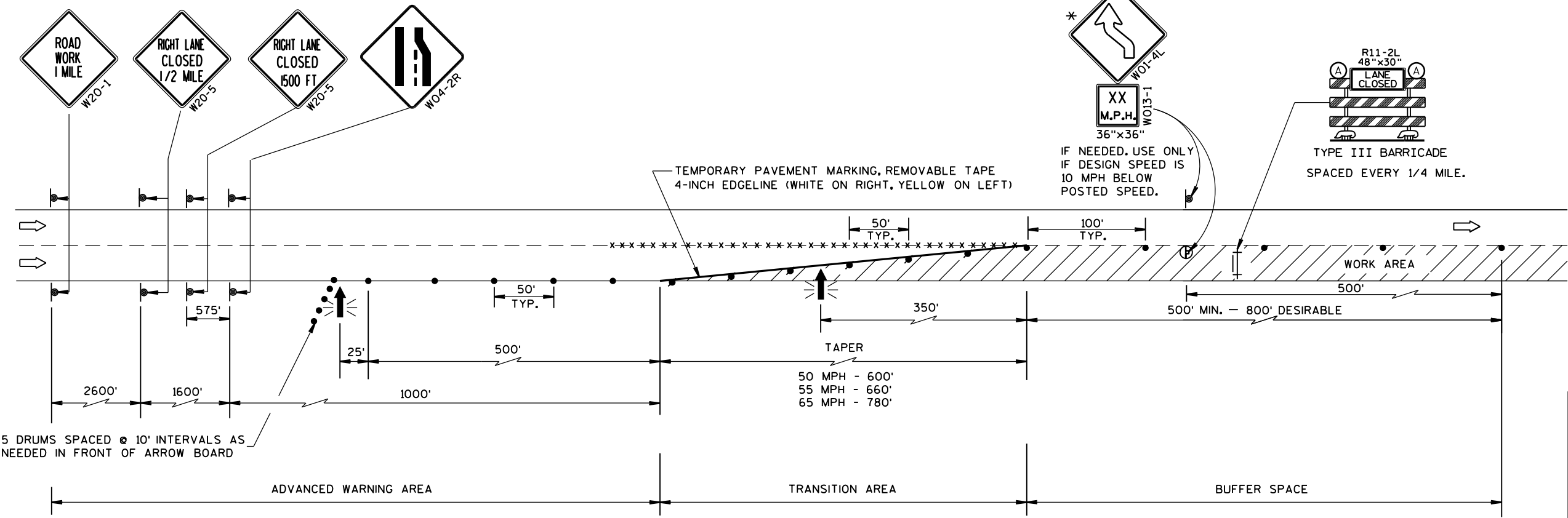
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 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.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



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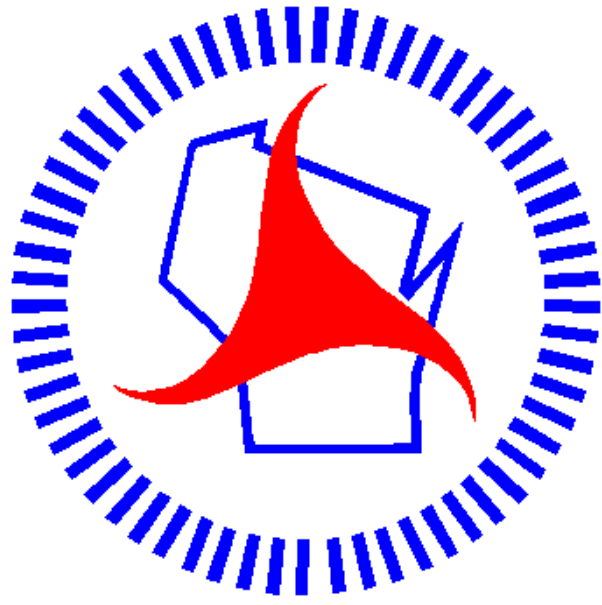


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S.D.D. 15 D 12-3

TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 8/2013	/S/ Travis Feltes
DATE	STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

S.D.D. 15 D 12-3



Wisconsin Department of Transportation

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through innovation and exceptional service.

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