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Sheet No.		Typical Sections and Details
Sheet No.		Estimate of Quantities
Sheet No.		Miscellaneous Quantities
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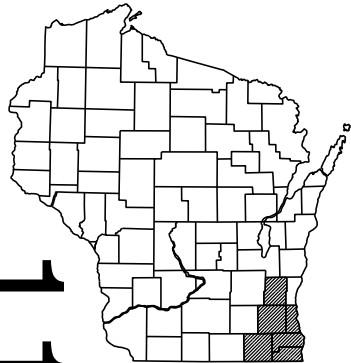
TOTAL SHEETS = 82

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SPECIAL PAVEMENT MARKING - 2016

VARIOUS HIGHWAYS
SE REGION WIDE



11

STATE PROJECT NUMBER
1000-77-16



WASHINGTON COUNTY

WAUKESHA COUNTY

MILWAUKEE COUNTY

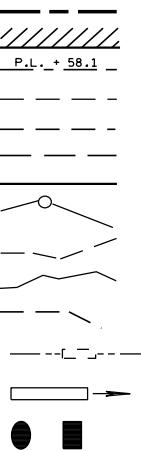
RACINE COUNTY

KENOSHA COUNTY

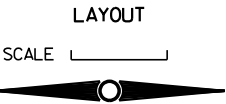
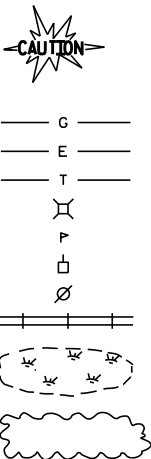
WALWORTH COUNTY

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



PROJECT ID 1000-77-16 = 90.72 MI.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1000-77-16	WISC 2016167	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor
Designer DONALD STEEL
Project Manager DONALD STEEL
Regional Examiner TOM HEYDEL
Regional Supervisor DON BERGHAMMER
C.O. Examiner

APPROVED FOR THE DEPARTMENT
DATE: 12/8/15
Signature: Thomas Heydel, P.E.
(Signature)

E

GENERAL NOTES:

- 1. THERE ARE NO UTILITY IMPACTS FOR THIS PROJECT
- 2. ON SOME TYPES OF PROJECTS THE UTILITY FACILITIES ARE NOT SHOWN ON THE PLAN, THEN USE THIS NOTE:
-THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS 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.

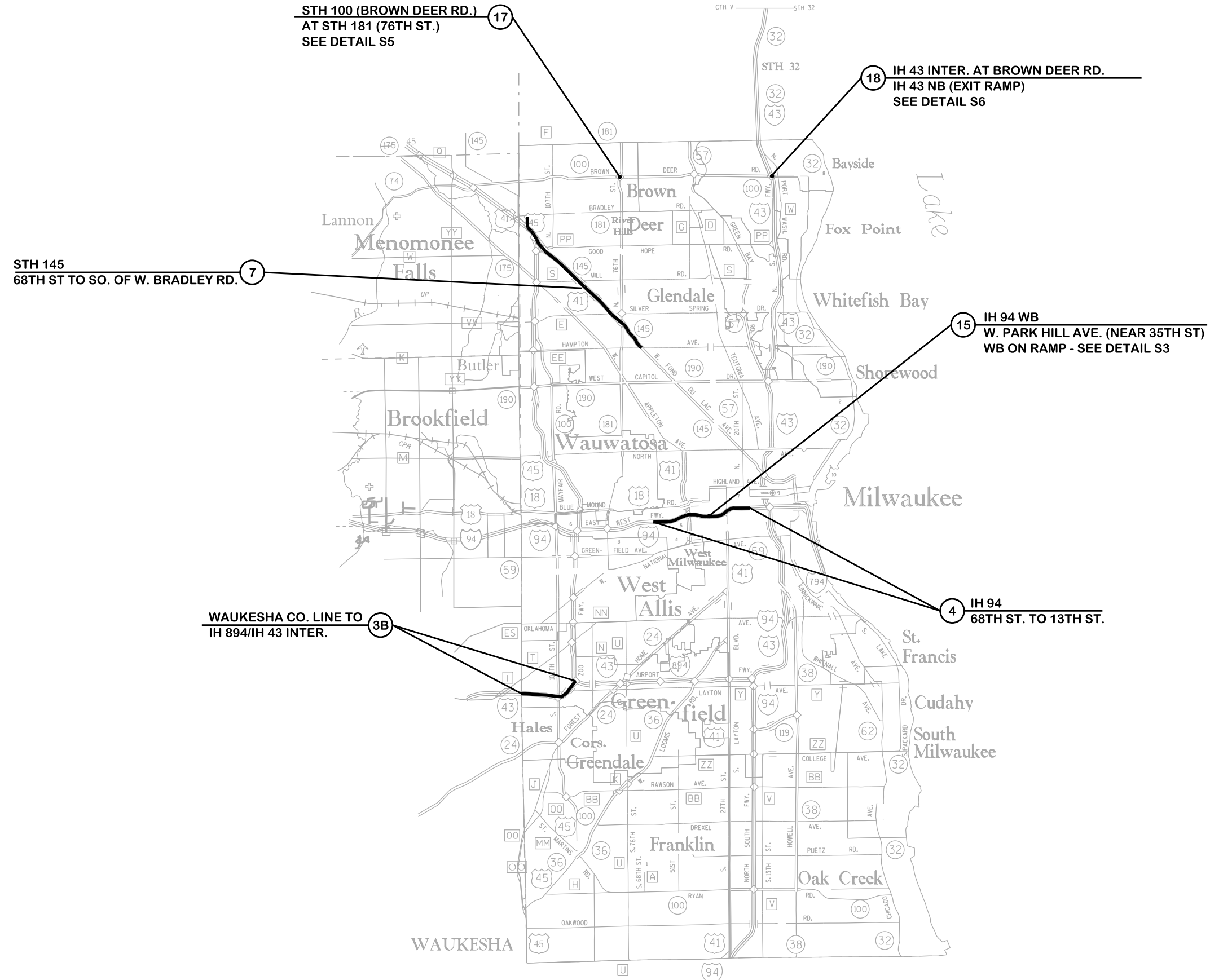
CONTACTS:

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

DIGGERSHOTLINE

Dial811or(800)242-8511

www.DiggersHotline.com



SHEET 1 OF 6

PROJECT NO: 1000-77-16

HWY: VARIOUS HWYS

COUNTY: MILWAUKEE

OVERVIEW - MILWAUKEE

SHEET

E

FILE NAME : N:\PDS\Projects\10007716\Plan.Set\020201.po.dgn

PLOT DATE : 02-MAR-2016 14:33

PLOT BY : dotshw

PLOT NAME :

PLOT SCALE : 19999.96:1

WISDOT/CADDS SHEET 42



IH 43
ROCK CO. LINE TO 600' SOUTH OF USH 12 INTER.

1

IH 43 (NB ONLY)
NORTH OF USH 12 TO .5 MILES SOUTH
OF WAUKESHA CO. LINE

2

USH 12
GENOA (CTH H) TO STH 67

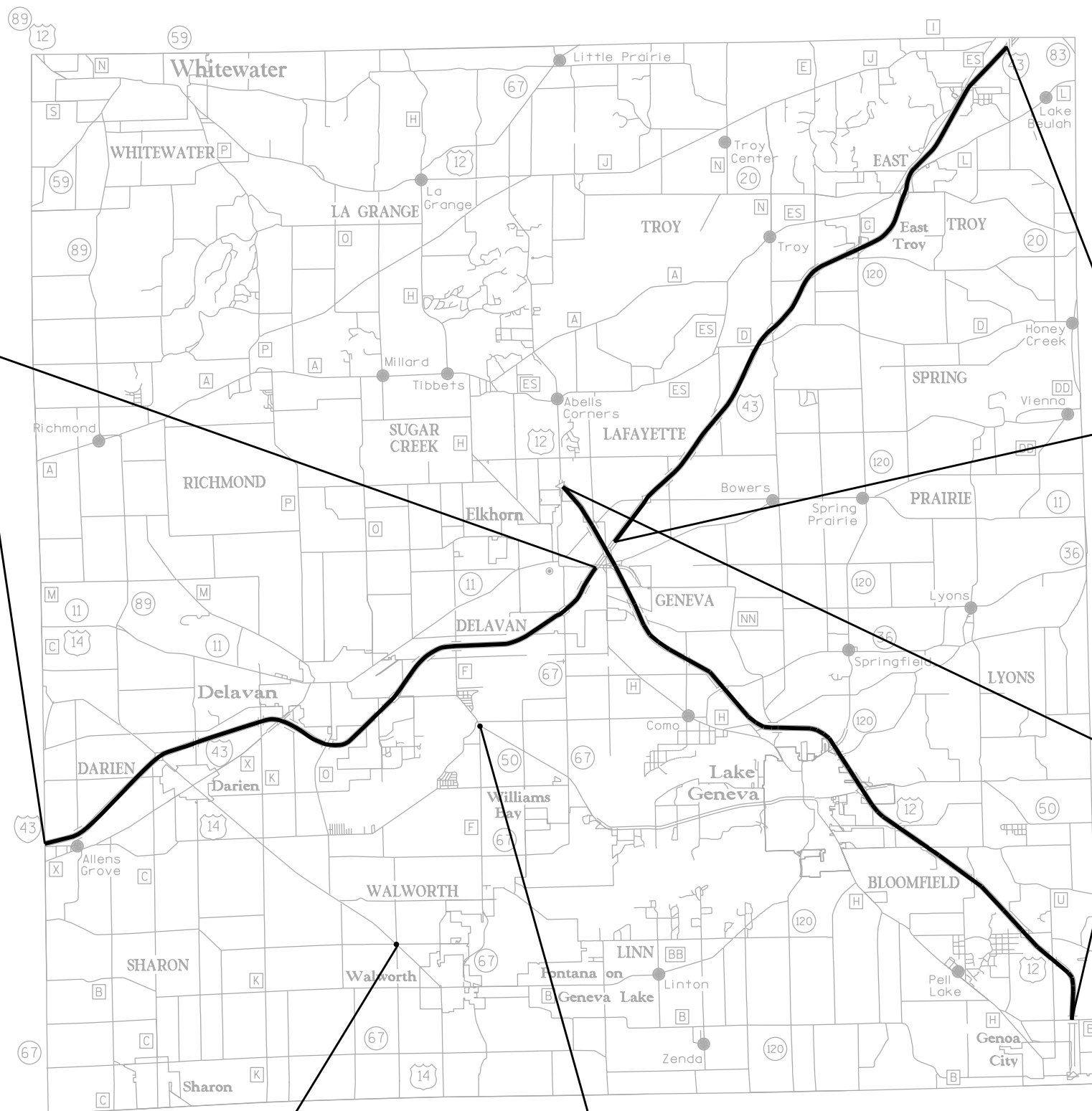
6

USH 14 AT SIX CORNERS RD.
SEE DETAIL S7

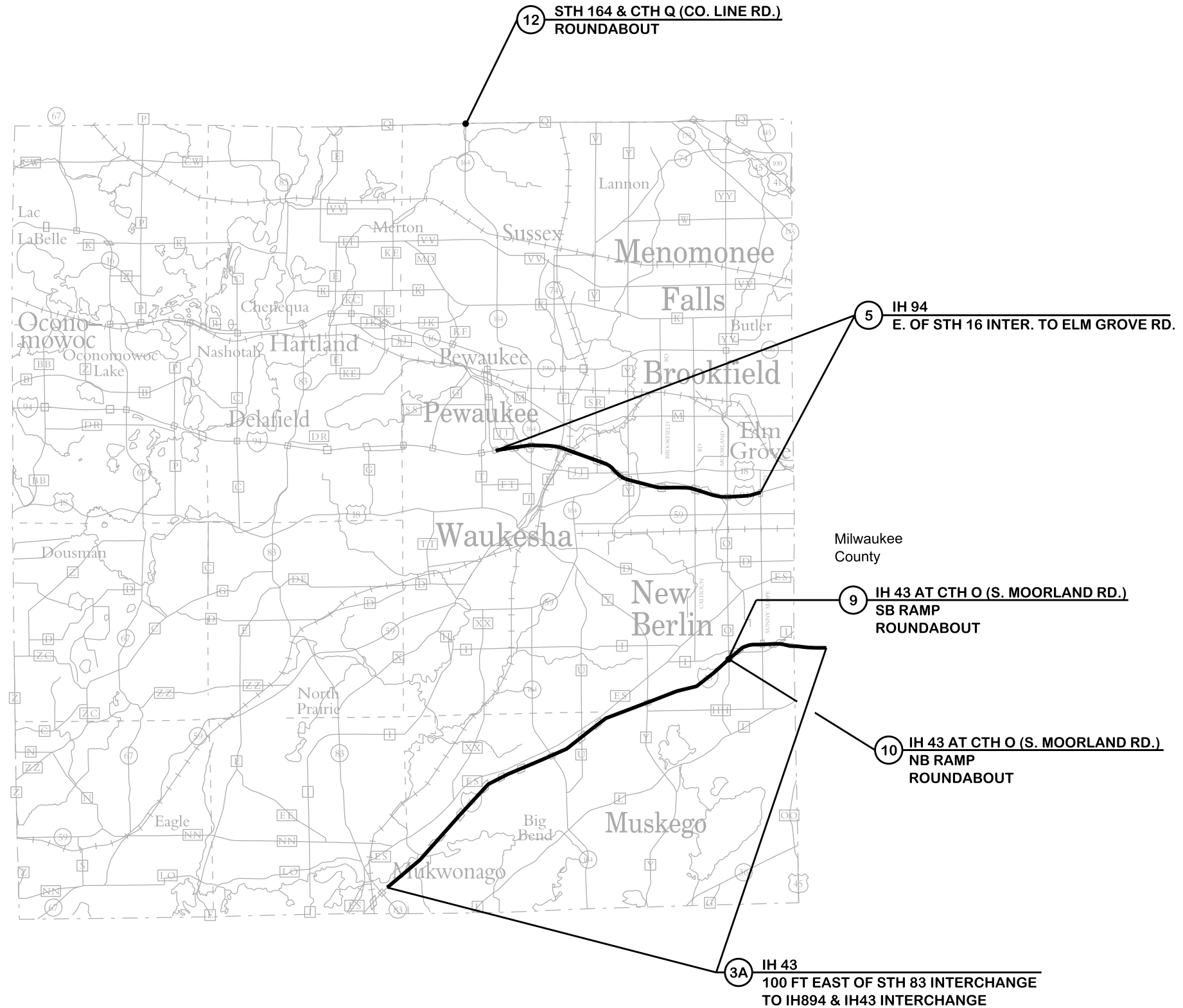
19

STH 50 AT CTH F
(TOWN OF DELEVAN)
SEE DETAIL S8

20



SHEET 2 OF 6



SHEET 3 OF 6

PROJECT NO:1000-77-16

HWY: VARIOUS HWYS

COUNTY: WAUKESHA

OVERVIEW - WAUKESHA

SHEET

E

FILE NAME : N:\PDS\Projects\10007716\Plan.Set\020201..po.dgn

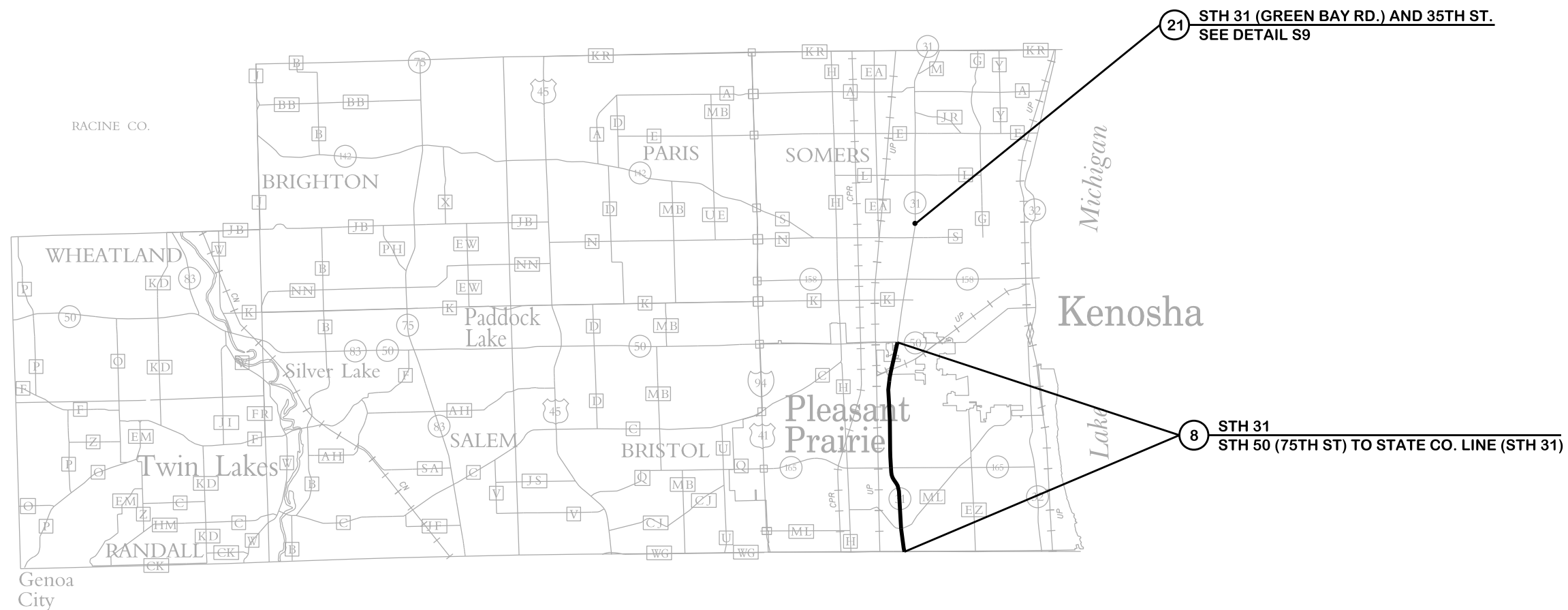
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PLOT BY : dotshw

PLOT NAME :

PLOT SCALE : 20000:1

WISDOT/CADDs SHEET 42



SHEET 4 OF 6

PROJECT NO:1000-77-16

HWY: VARIOUS HWYS

COUNTY: KENOSHA

OVERVIEW - KENOSHA

SHEET

E

FILE NAME : N:\PDS\Projects\10007716\Plan_Set\020201_.po.dgn

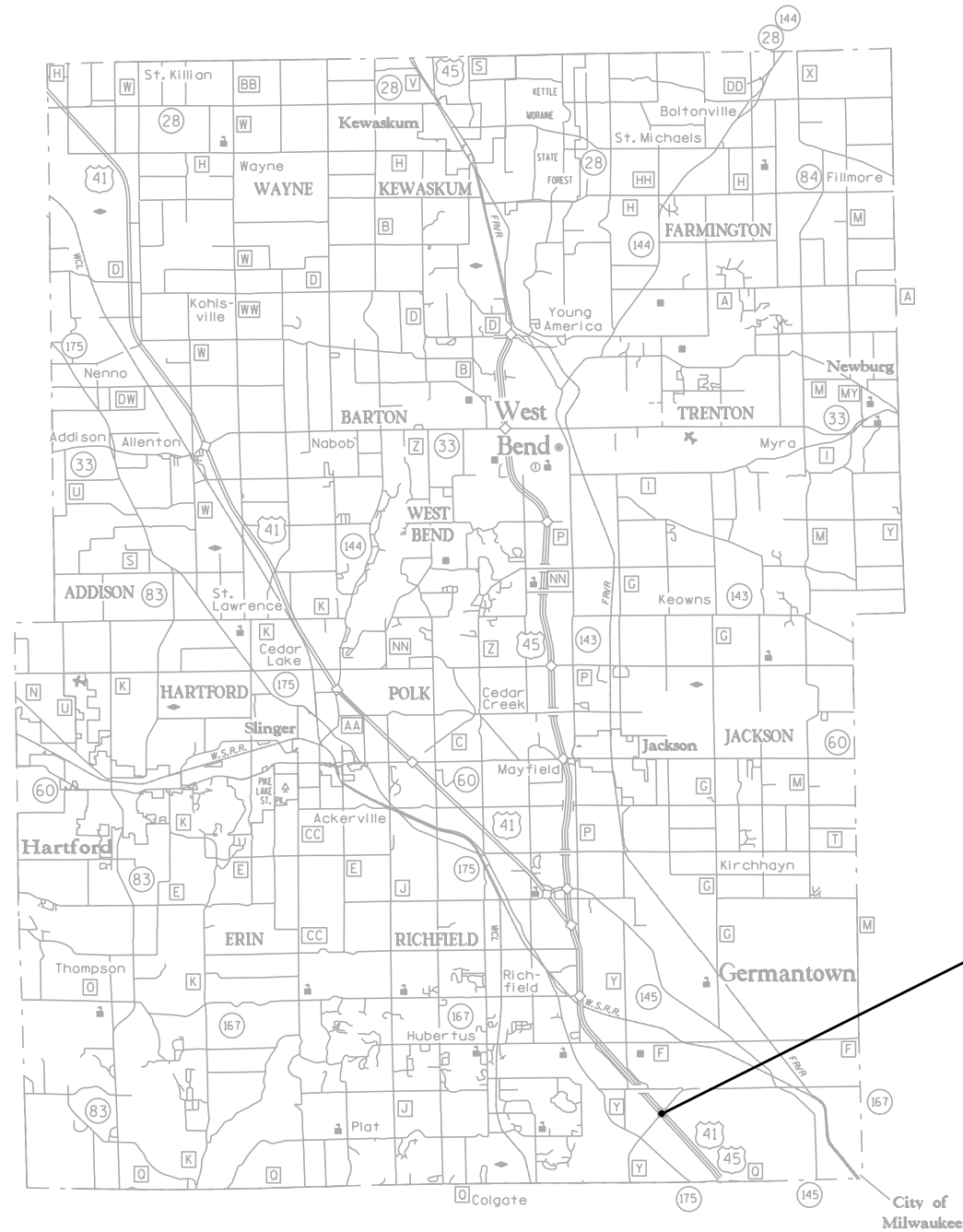
PLOT DATE : 02-MAR-2016 14:33

PLOT BY : dotshw

PLOT NAME :

PLOT SCALE : 20000:1

WISDOT/CADDs SHEET 42



16 USH 41/45 AT STH 167 (LANNON RD.)
NB OFF RAMP
SEE DETAIL S4

SHEET 5 OF 6

PROJECT NO:1000-77-16

HWY: VARIOUS HWYS

COUNTY: WASHINGTON

OVERVIEW - WASHINGTON

SHEET

E

FILE NAME : N:\PDS\Projects\10007716\Plan_Set\020201_.po.dgn

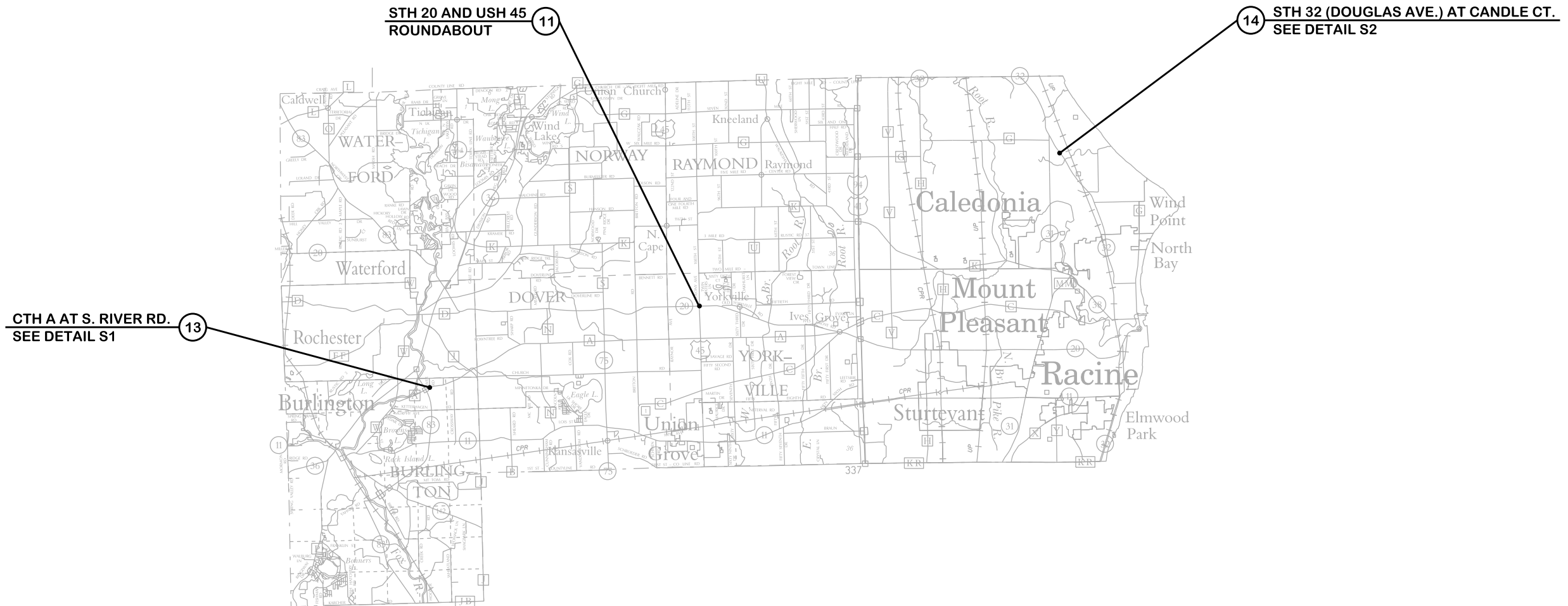
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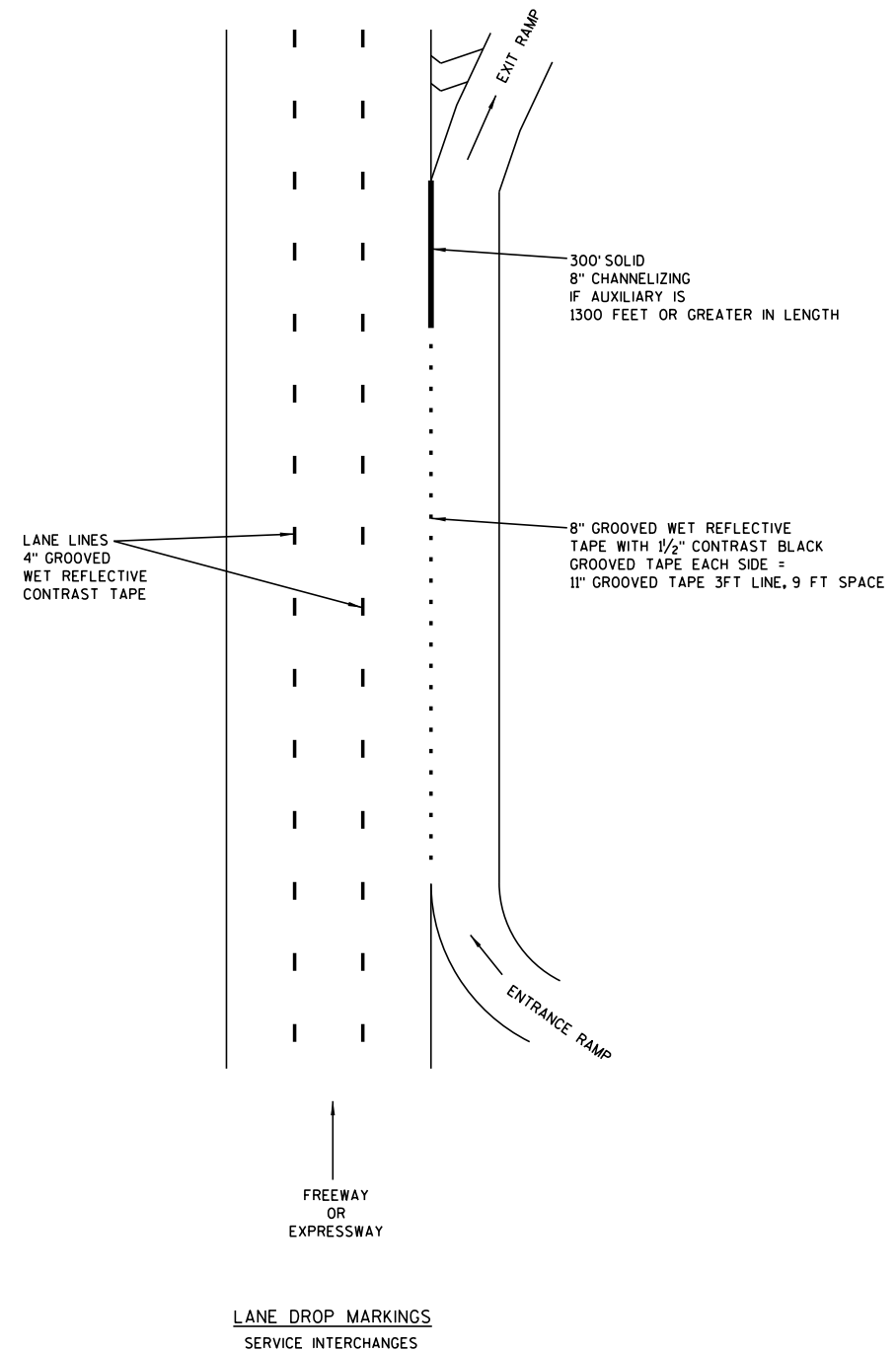
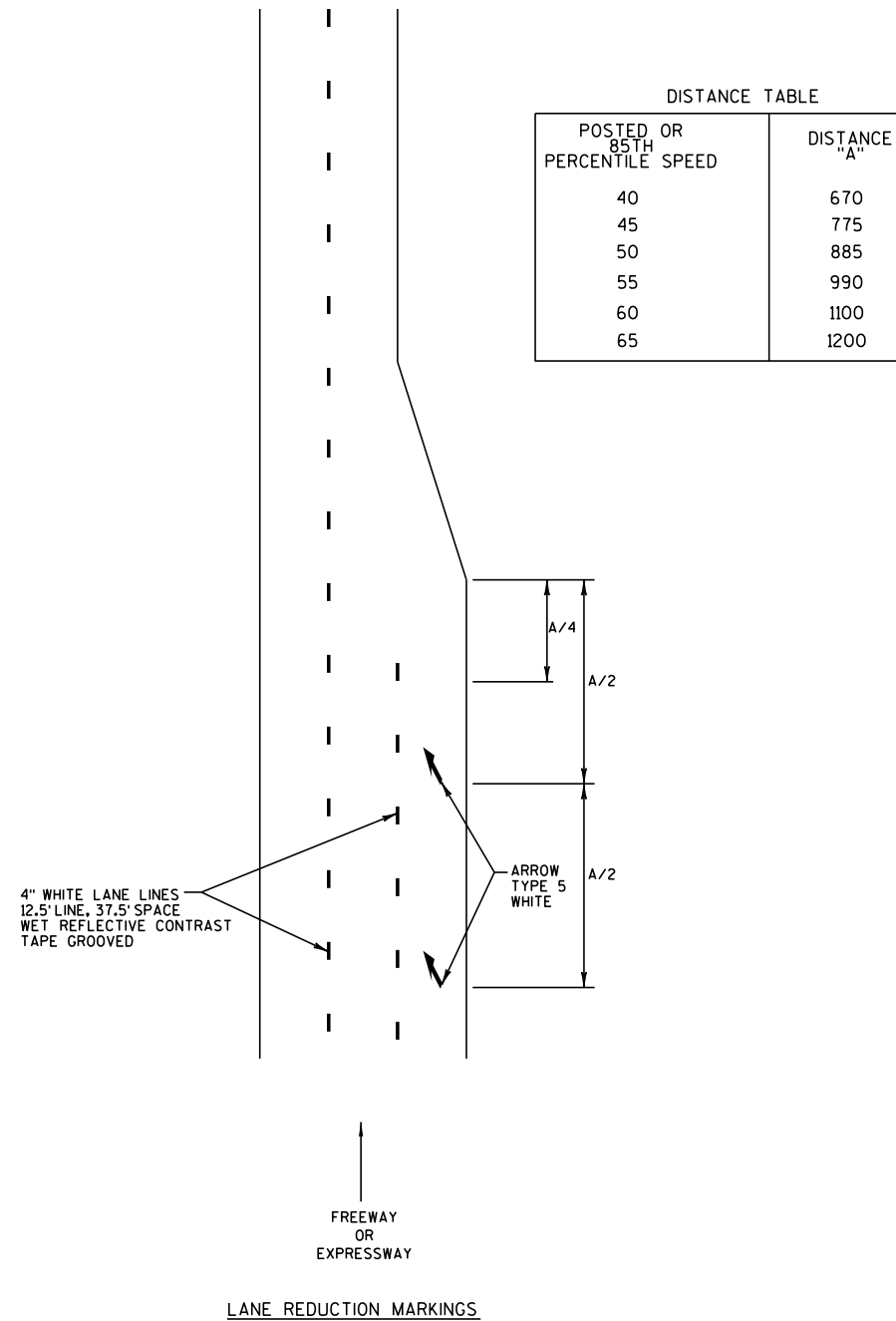
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PLOT NAME :

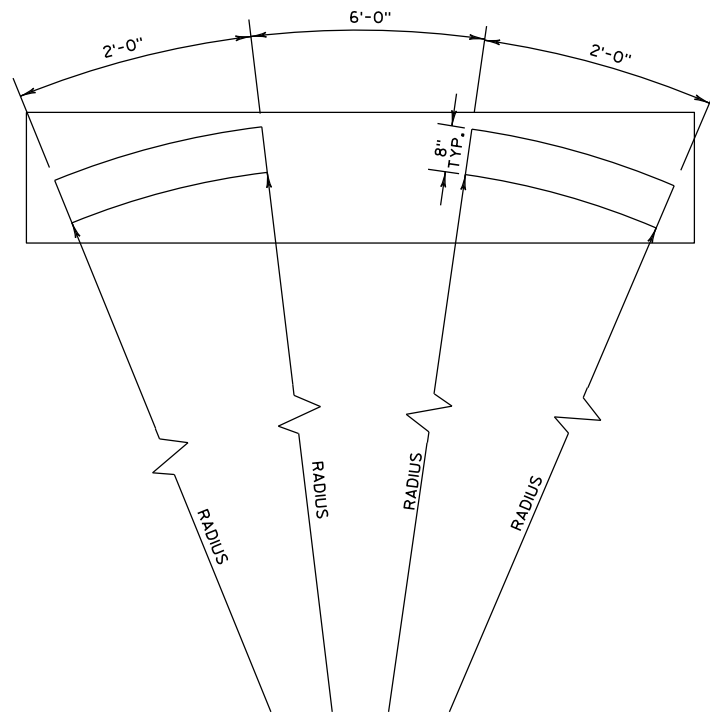
PLOT SCALE : 20000:1

WISDOT/CADDs SHEET 42



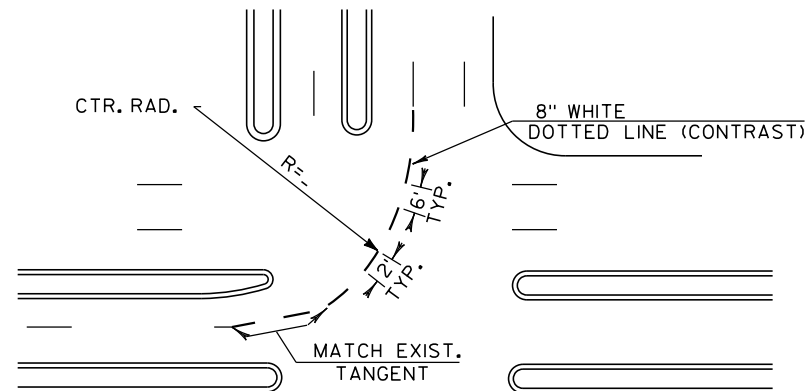


2

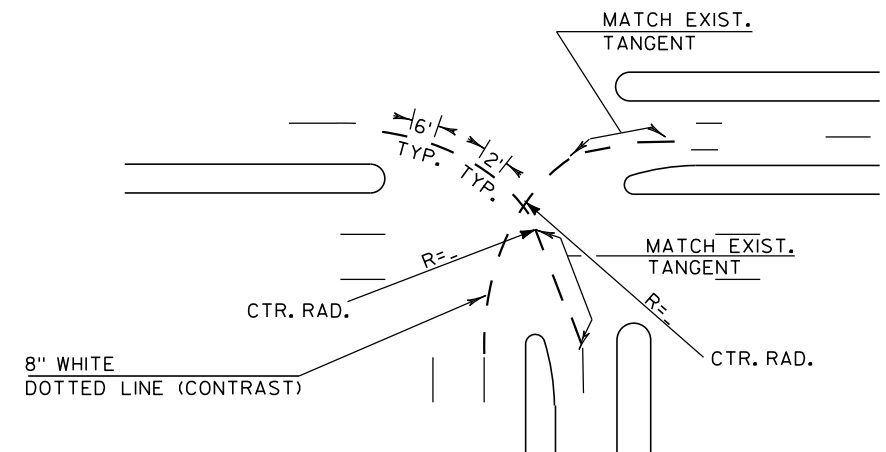
**DOTTED TEMPLATE**

NOTE: CONTRACTOR TO BUILD TEMPLATE BASED ON RADIUS SHOWN. TEMPLATES ARE TO BE CONSTRUCTED OF PLYWOOD, PLASTIC, OR SUITABLE MATERIAL APPROVED BY THE ENGINEER IN THE FIELD.

DESIGNER NOTE: ESTABLISH RADIUS FOR DUAL LEFT MARKING PROVIDE R=VALUE IN SPECIFIC CASE

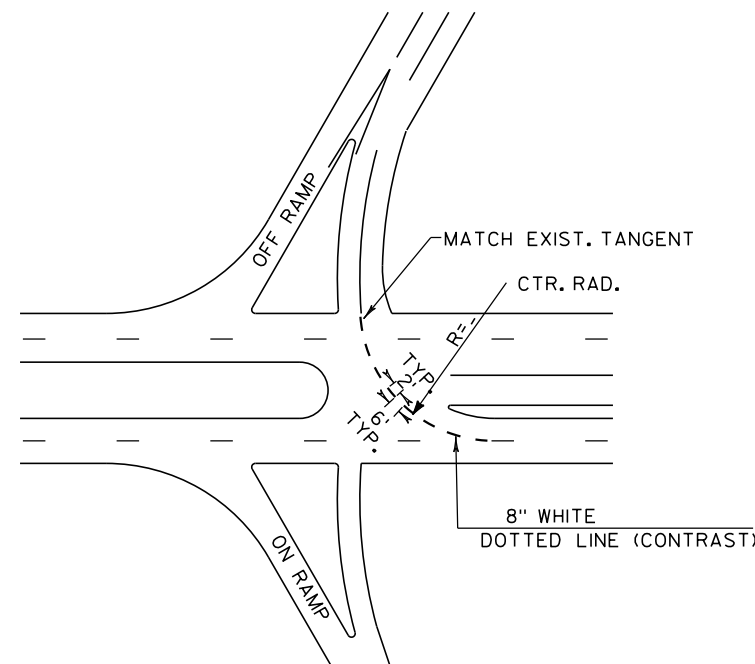
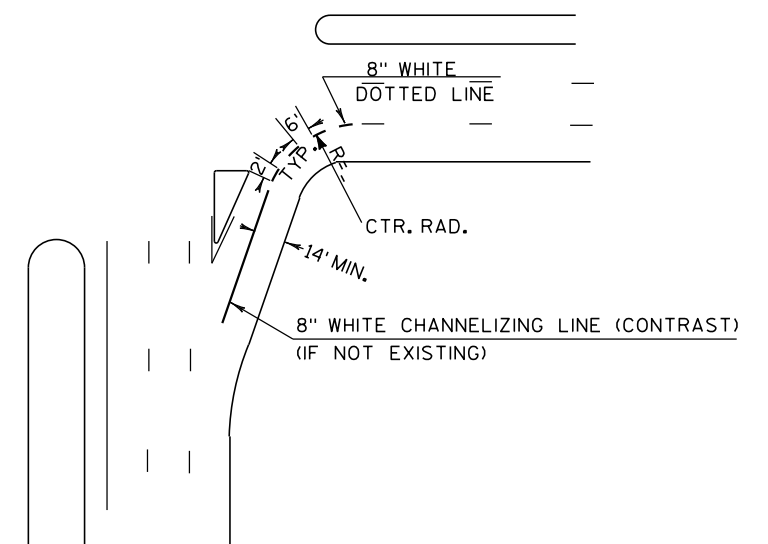
**INTERSECTING HIGHWAYS
(DOTTED PATTERN)
DOUBLE LEFT-TURNING MOVEMENTS**

2

**INTERSECTING HIGHWAYS
(DOTTED PATTERN)
DOUBLE LEFT-TURNING MOVEMENTS****GENERAL NOTES**

1. DOTTED PAVEMENT MARKING PATTERNS SHALL BE INSTALLED WITH A 2-FOOT SEGMENT AND A 6-FOOT GAP.
2. EXISTING MARKINGS THRU INTERSECTIONS DO NOT ALWAYS HAVE THE 2-FOOT X 6-FOOT CYCLE. IF THE EXISTING MARKINGS ARE OF THE 5-FOOT CYCLE, THEY WILL BE BRUSH PLASTED AND PAVEMENT MARKED WITH A 380 WR TAPE GROOVED IN.

IF THE EXISTING MARKINGS ARE NOT OF THE 2-FOOT CYCLE, THE CONTRACTOR WILL LAY OUT THE NEW MARKINGS, PREPARE THE EXISTING PAVMENT BY BRUSH PLASTING, AND A 380 WR TAPE PAVEMENT MARK THE NEW CYCLE.
3. IF THE DOTTED PAVEMENT MARKINGS ARE NON-EXISTING, THE CONTRACTOR SHALL LAY OUT THE RADIUS, AS BEING USED BY THE PRESENT TRAFFIC, WITH THE MINIMUM LANE WIDTHS AS SHOWN ON THE PLANS.
4. THE CONTRACTOR SHALL CONSTRUCT AND USE ONE OF THE TWO DOTTED TEMPLATES WHICH MOST CLOSELY MATCH THE FIELD CONDITIONS.
5. THE CONTRACTOR SHALL PROTECT THE TAPE LINES UNTIL DRY, BY THE USE OF TRAFFIC CONTROLS AND TRAFFIC CONES AS SHOWN ON THE TRAFFIC CONTROL PLANS.

**FREEWAY EXIT RAMP
(DOTTED PATTERN)
DOUBLE LEFT-TURNING MOVEMENTS****INTERSECTIONS & EXIT RAMP
(DOTTED PATTERN)
DOUBLE RIGHT-TURNING MOVEMENTS****STANDARD DETAIL DRAWINGS**

15 C 12-2 TRAFFIC CONTROL FOR LANE CLOSURES
(SUITABLE FOR MOVING OPERATIONS)

PROJECT NO:1000-77-16

HWY: VARIOUS

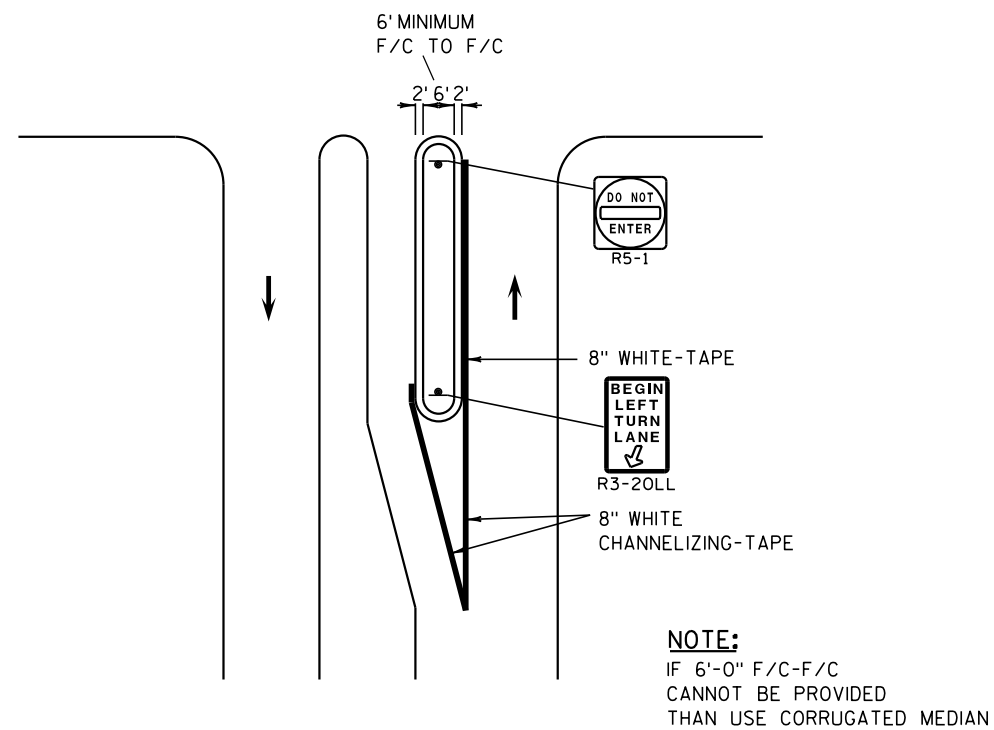
COUNTY: VARIOUS

EPOXY PAVEMENT MARKING DETAILS - DUAL LEFTS

SHEET

E

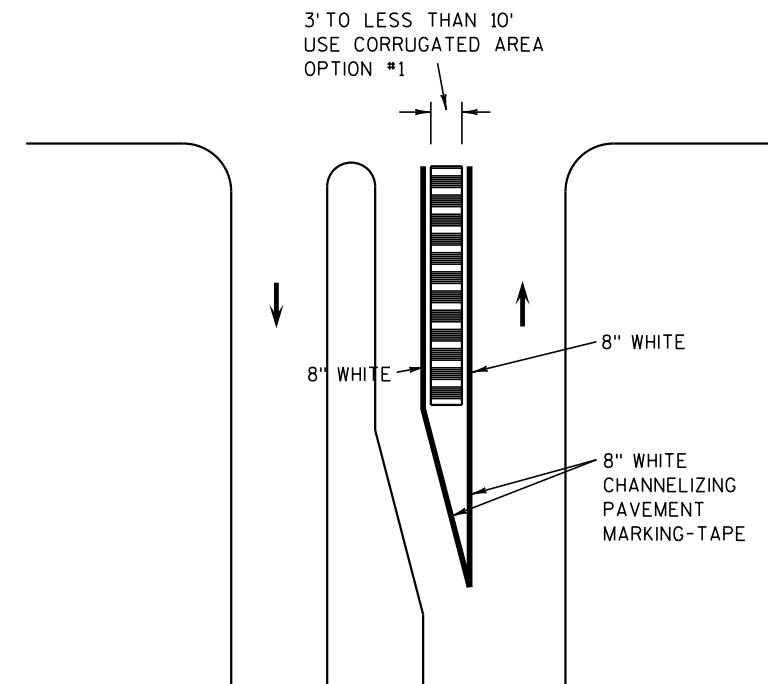
2



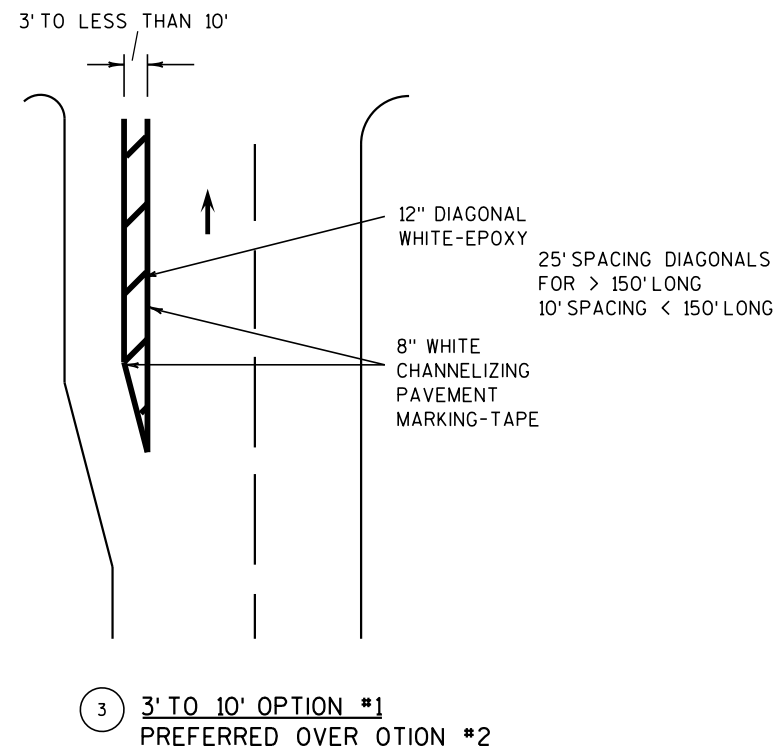
① 10' OR GREATER
CURB & GUTTER LEFT TURN SLOT

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

2



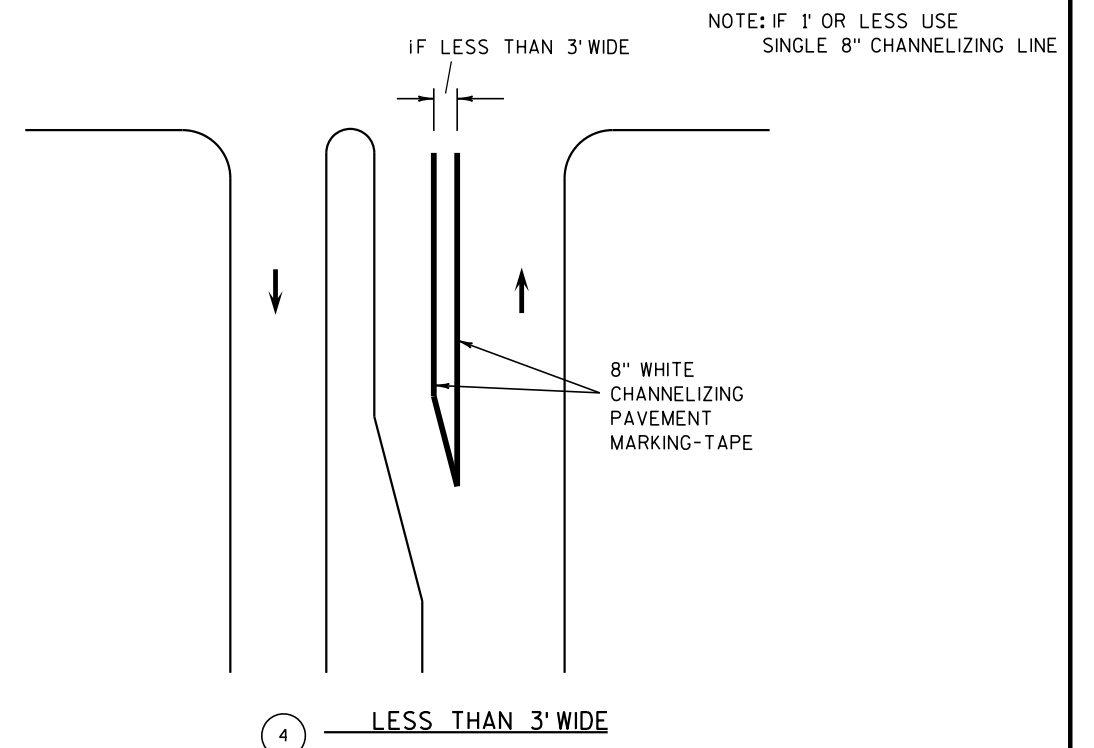
② 3' TO 10' OPTION #2



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

SLOTTED LEFT TURN LANE TREATMENT

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



④ LESS THAN 3' WIDE

PAVEMENT MARKING

SHEET 1 OF 2

PROJECT NO: 1000-77-16

HWY: VARIOUS

COUNTY: VARIOUS

CONSTRUCTION DETAIL- SLOTTED LEFT TURN LANES

SHEET

E

FILE NAME : N:\PDS\Projects\10007716\Plan_Set\021003_cd.dgn

PLOT DATE : 22-JAN-2016 07:21

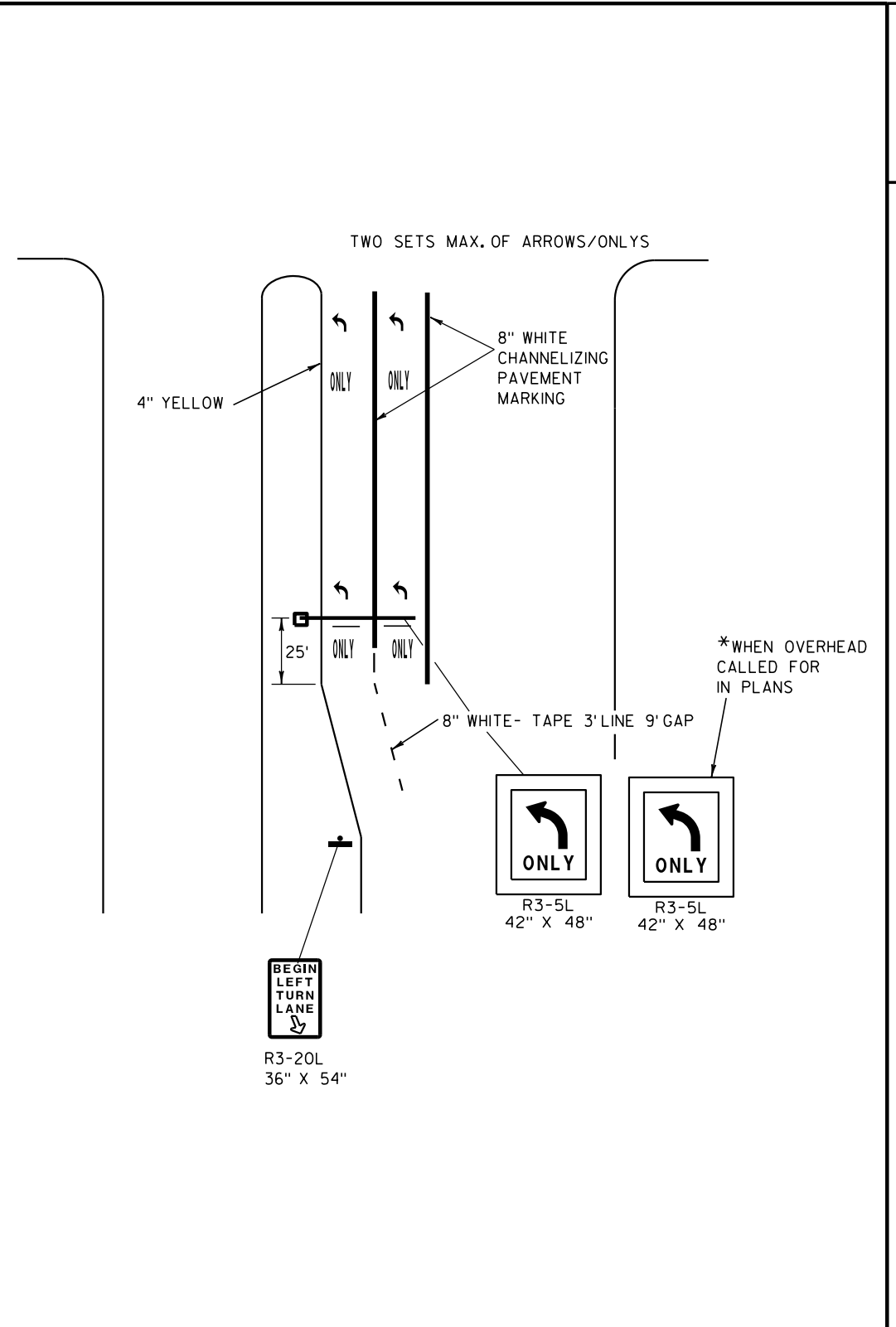
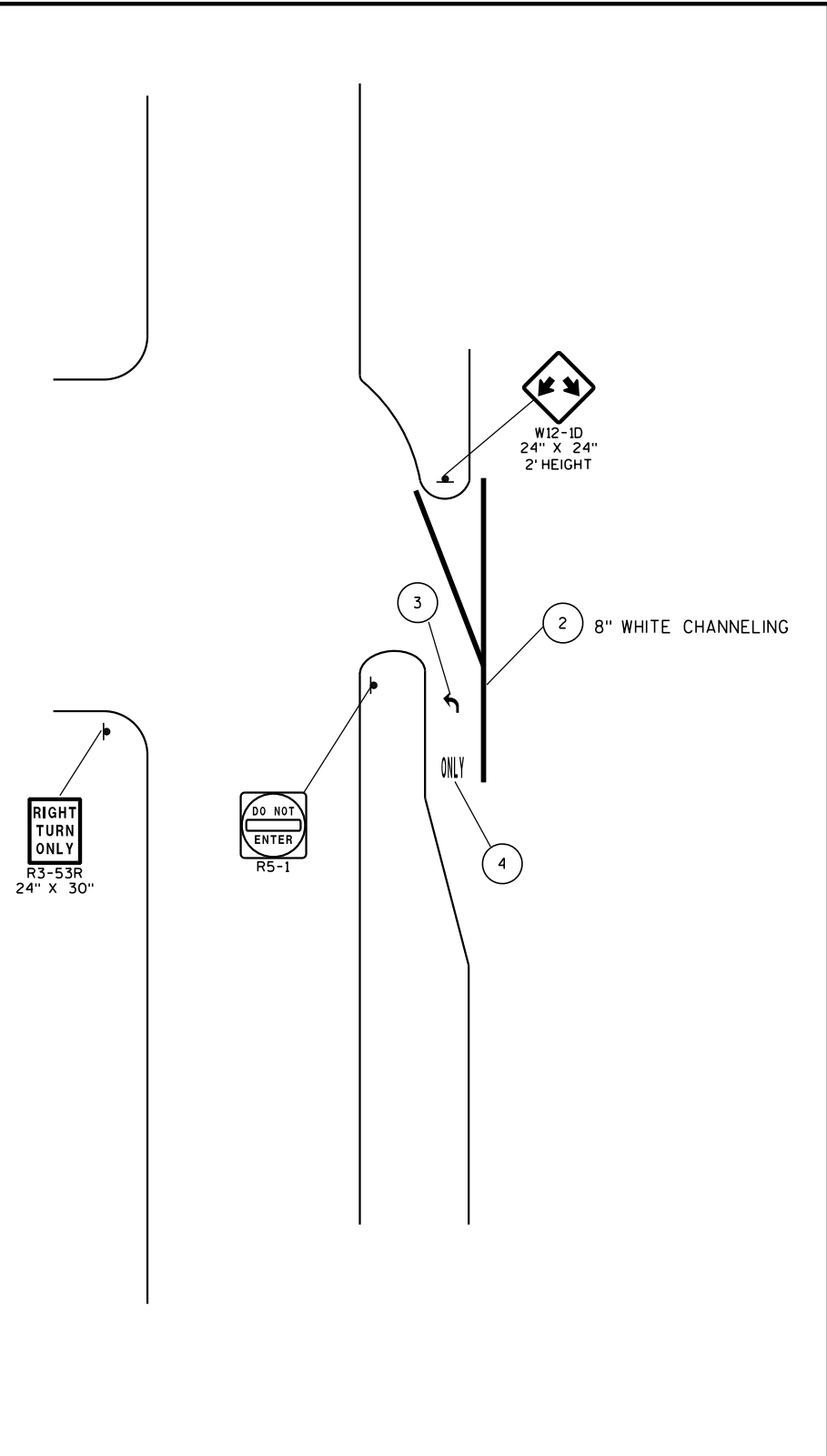
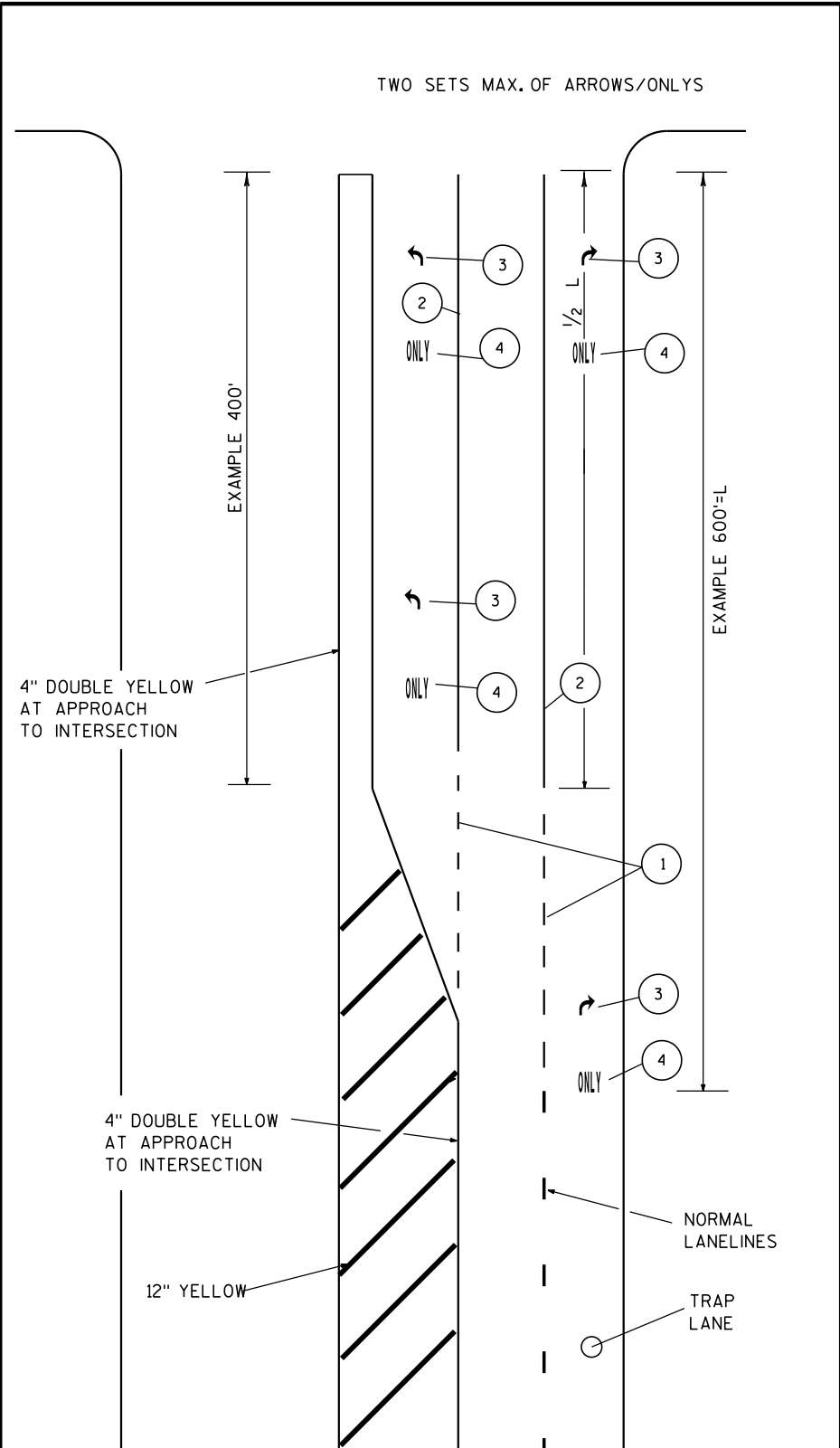
PLOT BY : dotcmv

PLOT NAME :

PLOT SCALE : 200:1

WISDOT/CADDs SHEET 42

2



- 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/dtd_bho/extranet/manuals/index.shtml
 traffic hot topics reference list/special provisions

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

SHEET 2 OF 2

PROJECT NO:1000-77-16

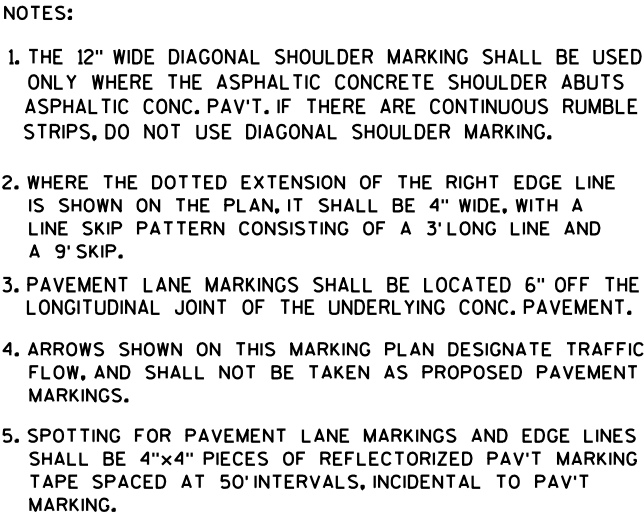
HWY: VARIOUS

COUNTY: VARIOUS

CONSTRUCTION DETAIL-TURN LANE PAVEMENT MARKING

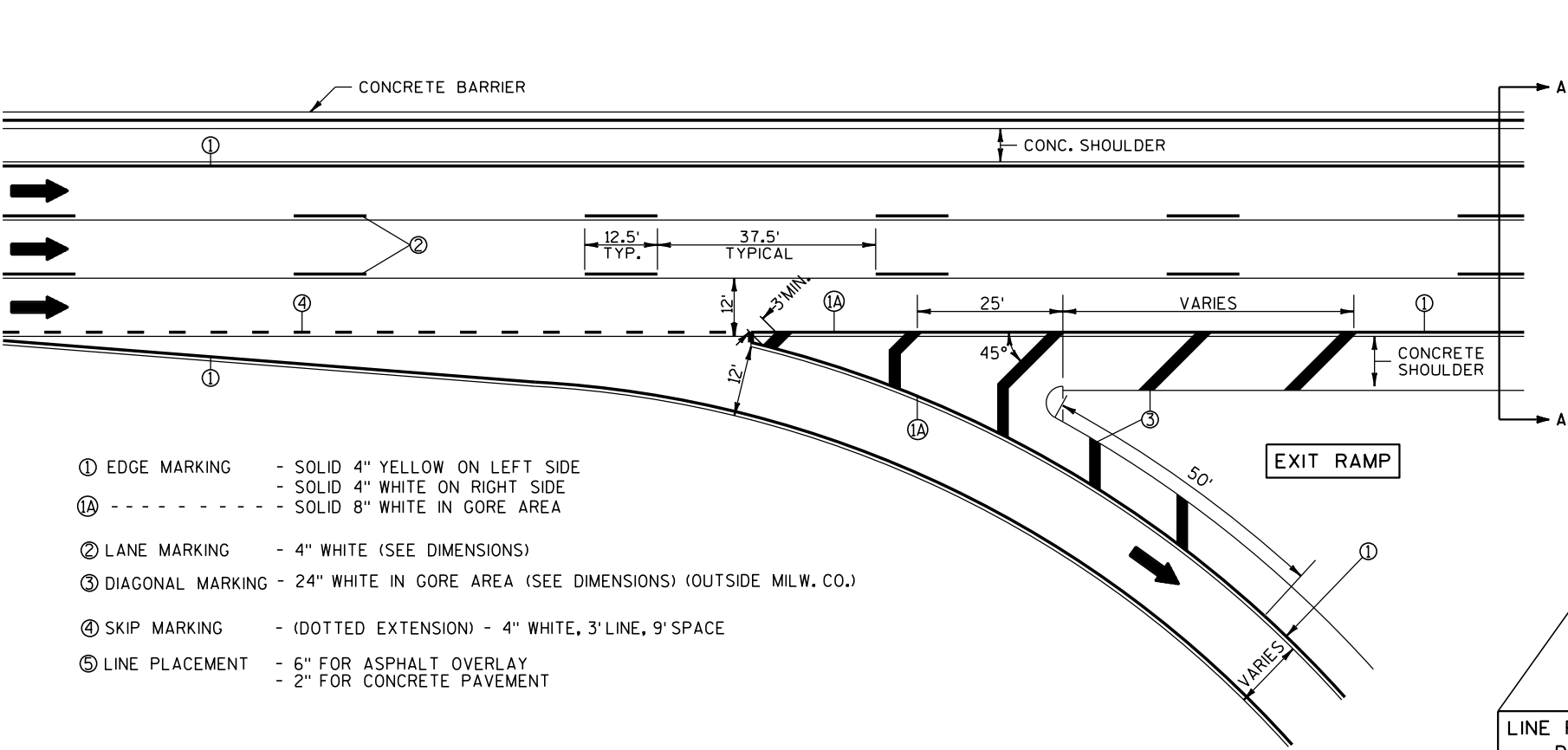
SHEET

1



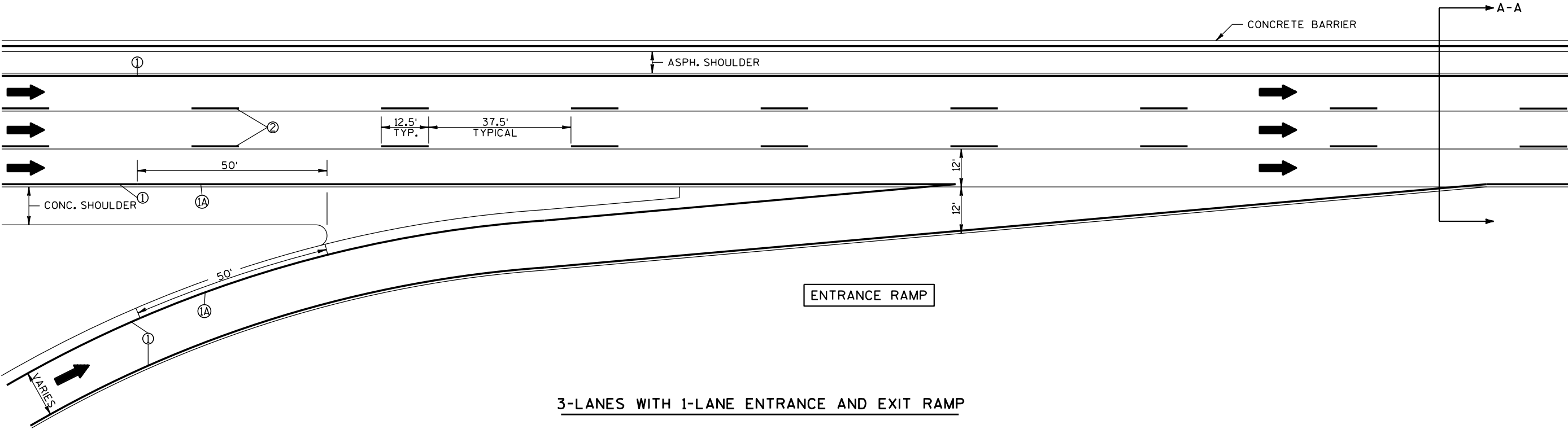
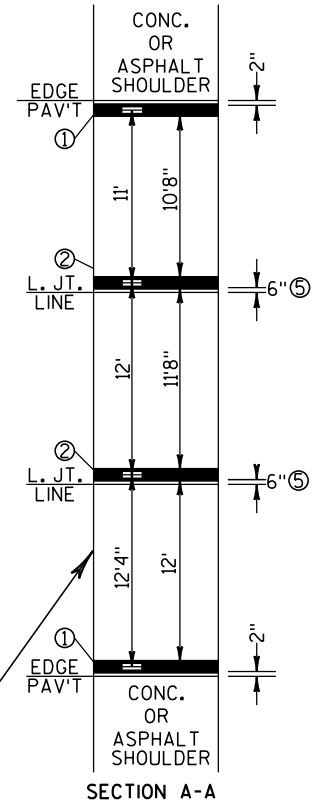


RACINE, KENOSHA, WALWORTH, WAUKESHA,
FOND DU LAC, OZAUKEE & WASHINGTON
COUNTIES



- ① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
- SOLID 4" WHITE ON RIGHT SIDE
- ①A - - - - - SOLID 8" WHITE IN GORE AREA
- ② LANE MARKING - 4" WHITE (SEE DIMENSIONS)
- ③ DIAGONAL MARKING - 24" WHITE IN GORE AREA (SEE DIMENSIONS) (OUTSIDE MILW. CO.)
- ④ SKIP MARKING - (DOTTED EXTENSION) - 4" WHITE, 3' LINE, 9' SPACE
- ⑤ LINE PLACEMENT - 6" FOR ASPHALT OVERLAY
- 2" FOR CONCRETE PAVEMENT

LINE PLACEMENT
DETAILS

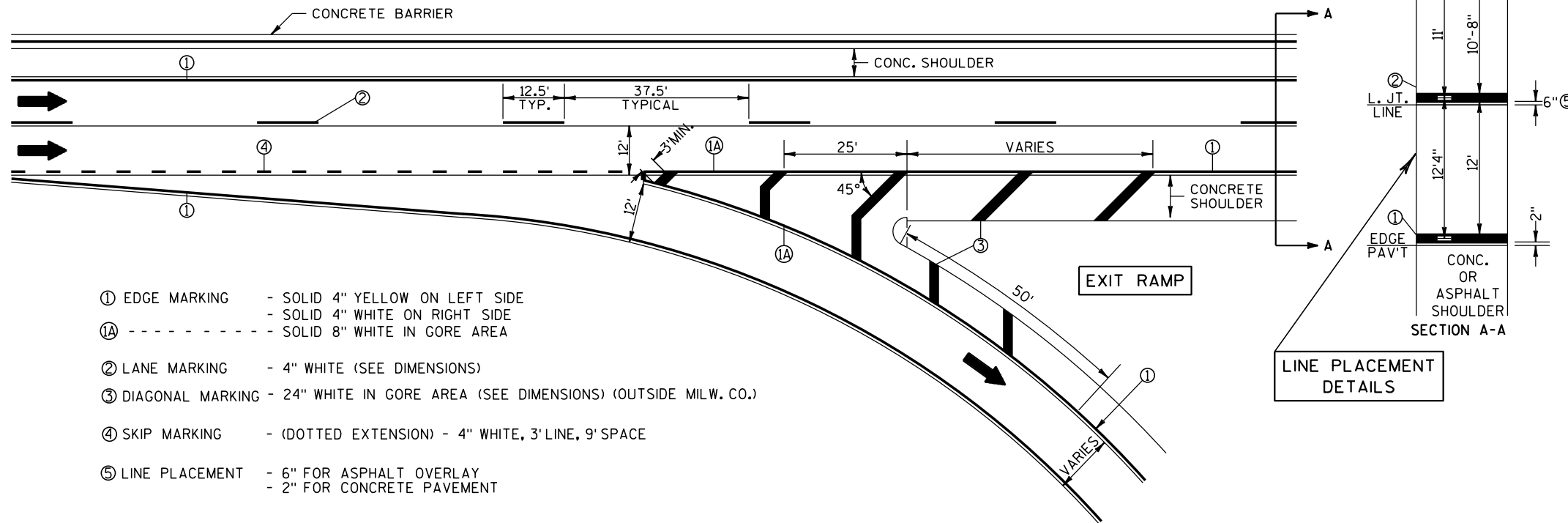


ENTRANCE RAMP

3-LANES WITH 1-LANE ENTRANCE AND EXIT RAMP

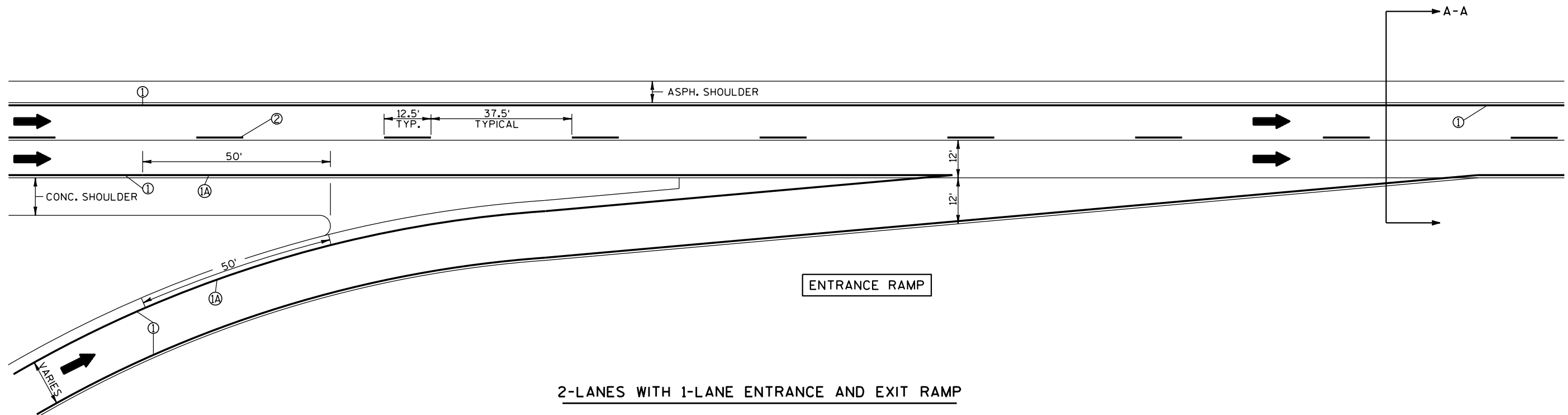
GORES, FREEWAYS, & EXPRESSWAYS

RACINE, KENOSHA, WALWORTH, WAUKESHA,
FOND DU LAC, 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.



GORES, FREEWAYS, & EXPRESSWAYS

PROJECT NO: 1000-77-16

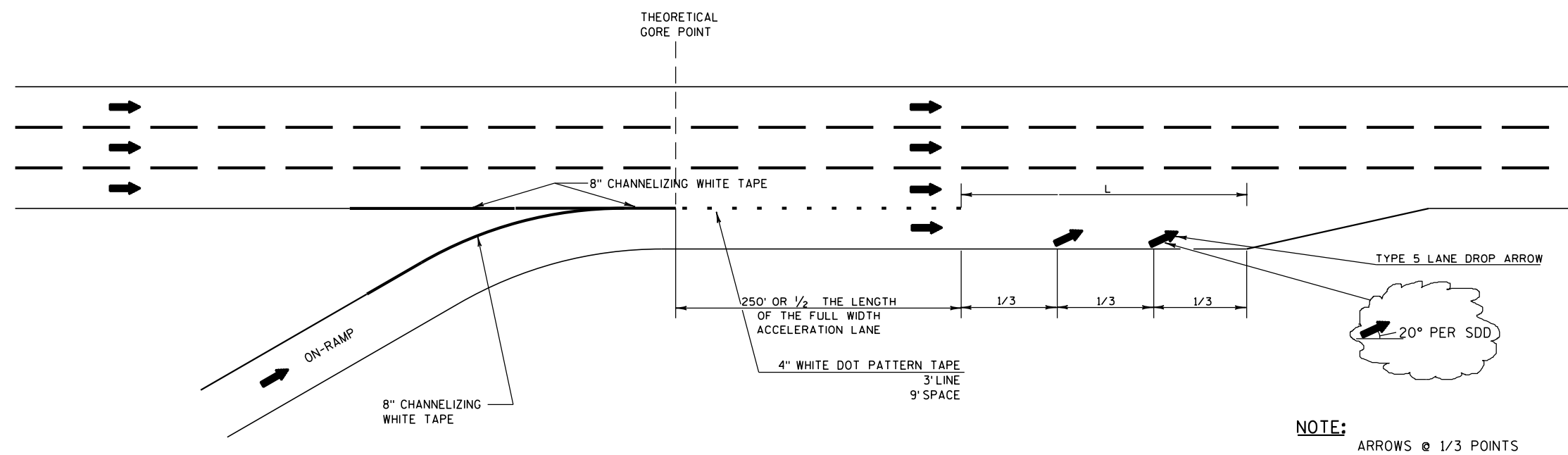
HWY: VARIOUS

COUNTY: VARIOUS

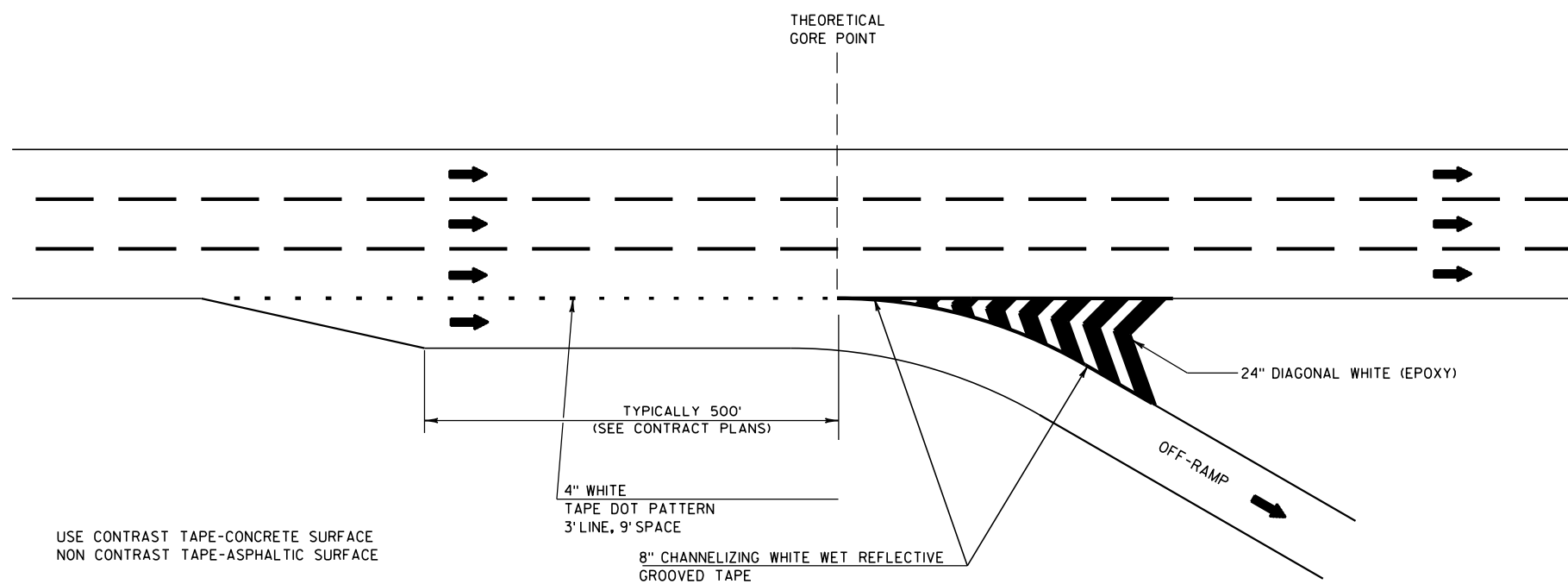
EPOXY PAVEMENT MARKING, RAMPS

SHEET

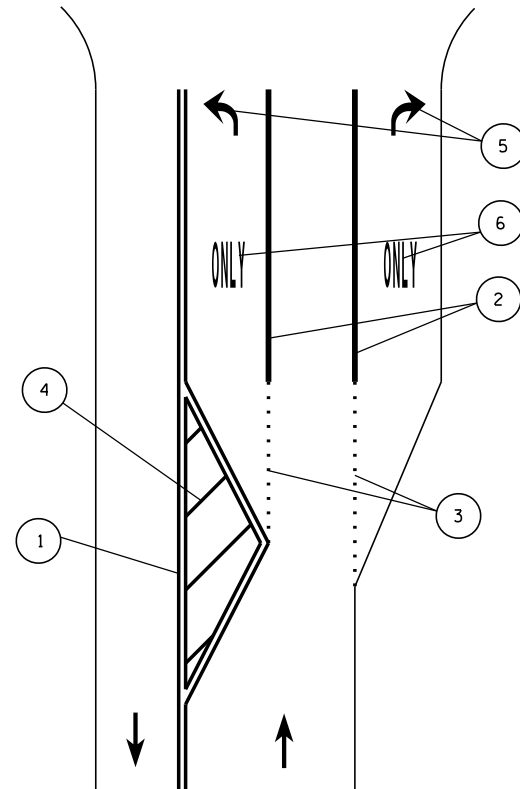
E



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ON-RAMP



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL OFF-RAMP

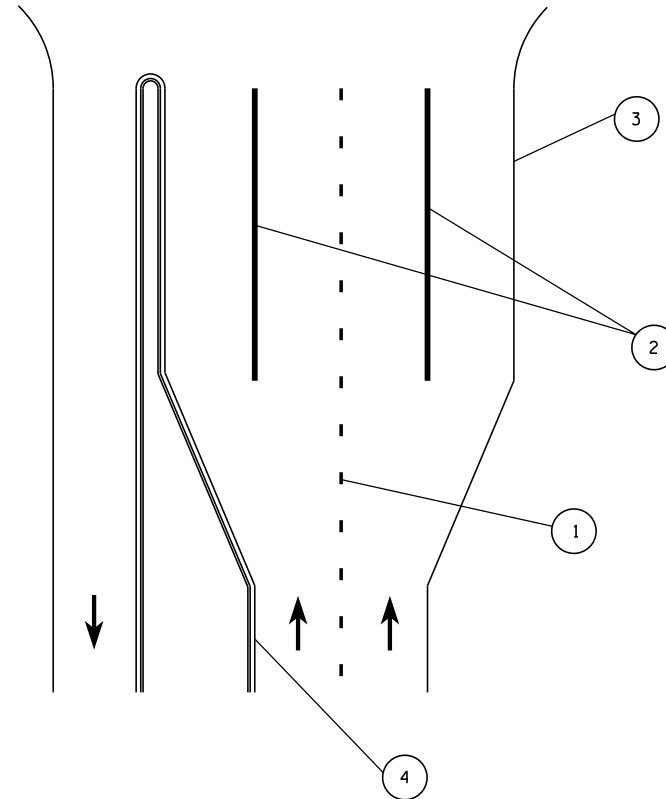


NOTE: IF SIGNALIZED
ADD STOP BAR

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, 9' SPACE)
- ④ PAVEMENT MARKING 12" DIAGONAL YELLOW
- ⑤ PAVEMENT MARKING TYPE 2 ARROW
- ⑥ PAVEMENT MARKING WORDS

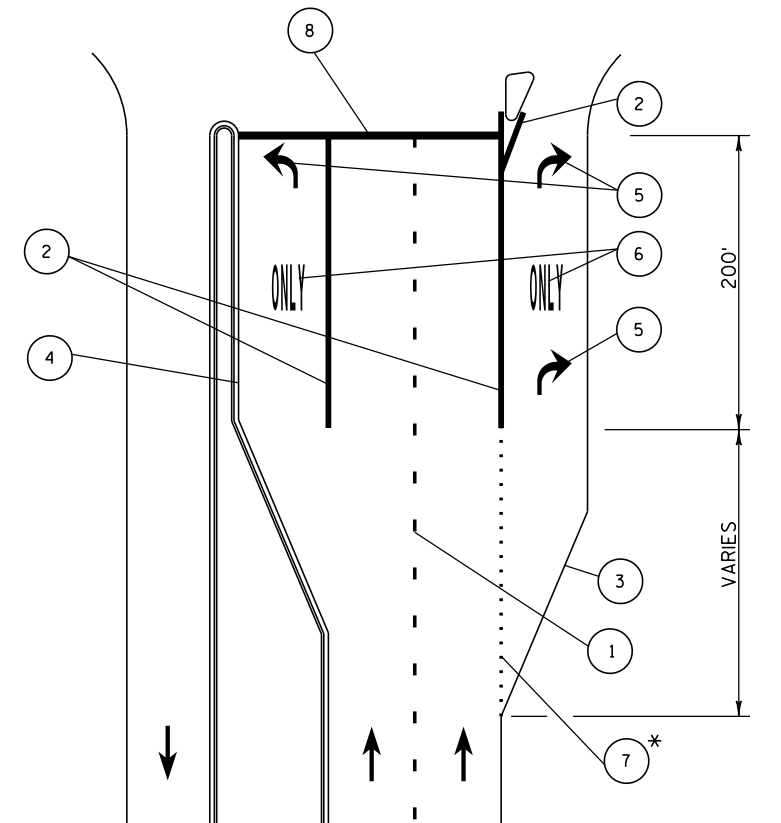


NOTE: IF OUTSIDE SHOULDER
IS NOT CURB & GUTTER THEN
ALWAYS USE EDGE LINE
REGARDLESS OF SPEED LIMIT

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



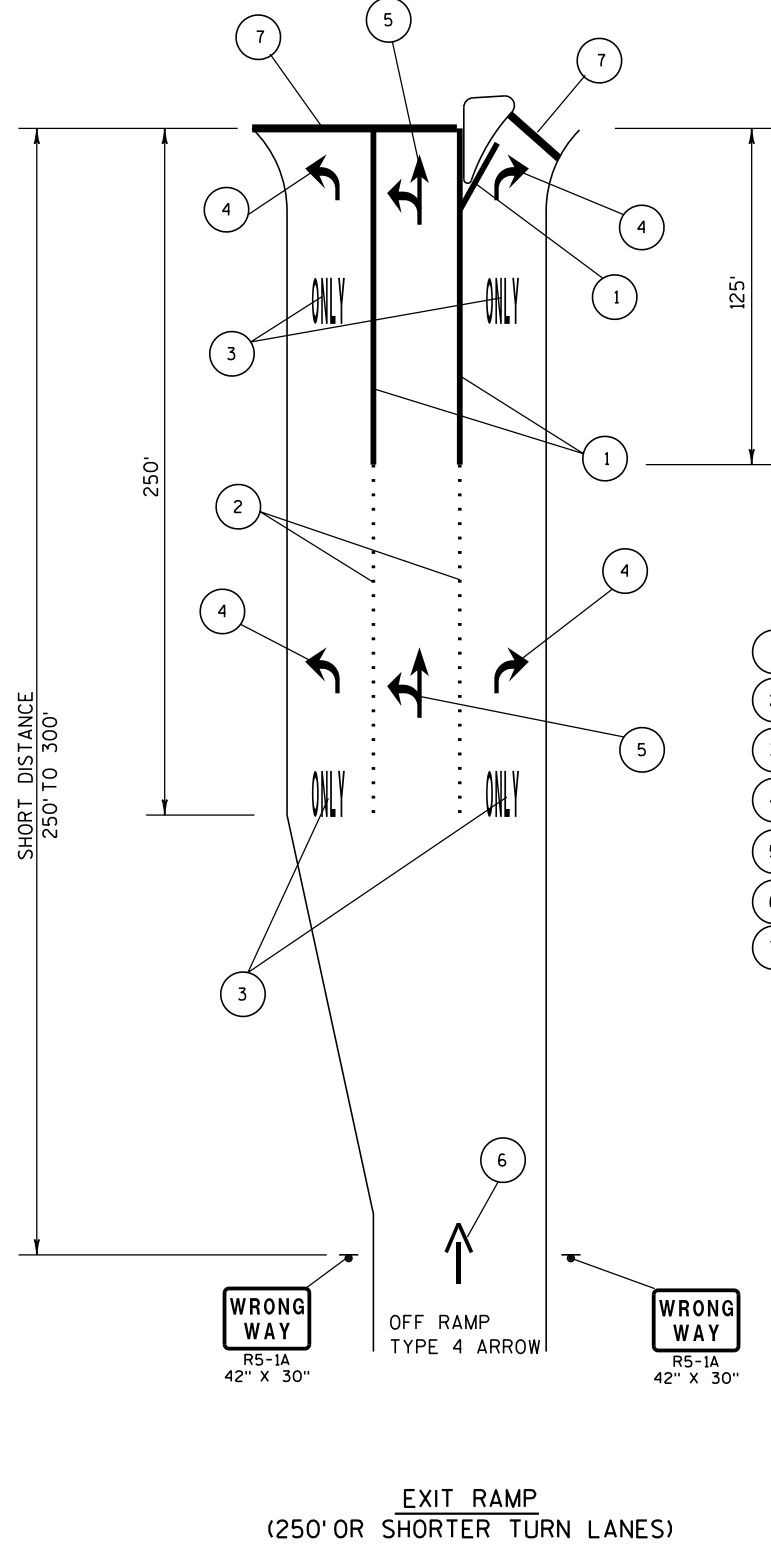
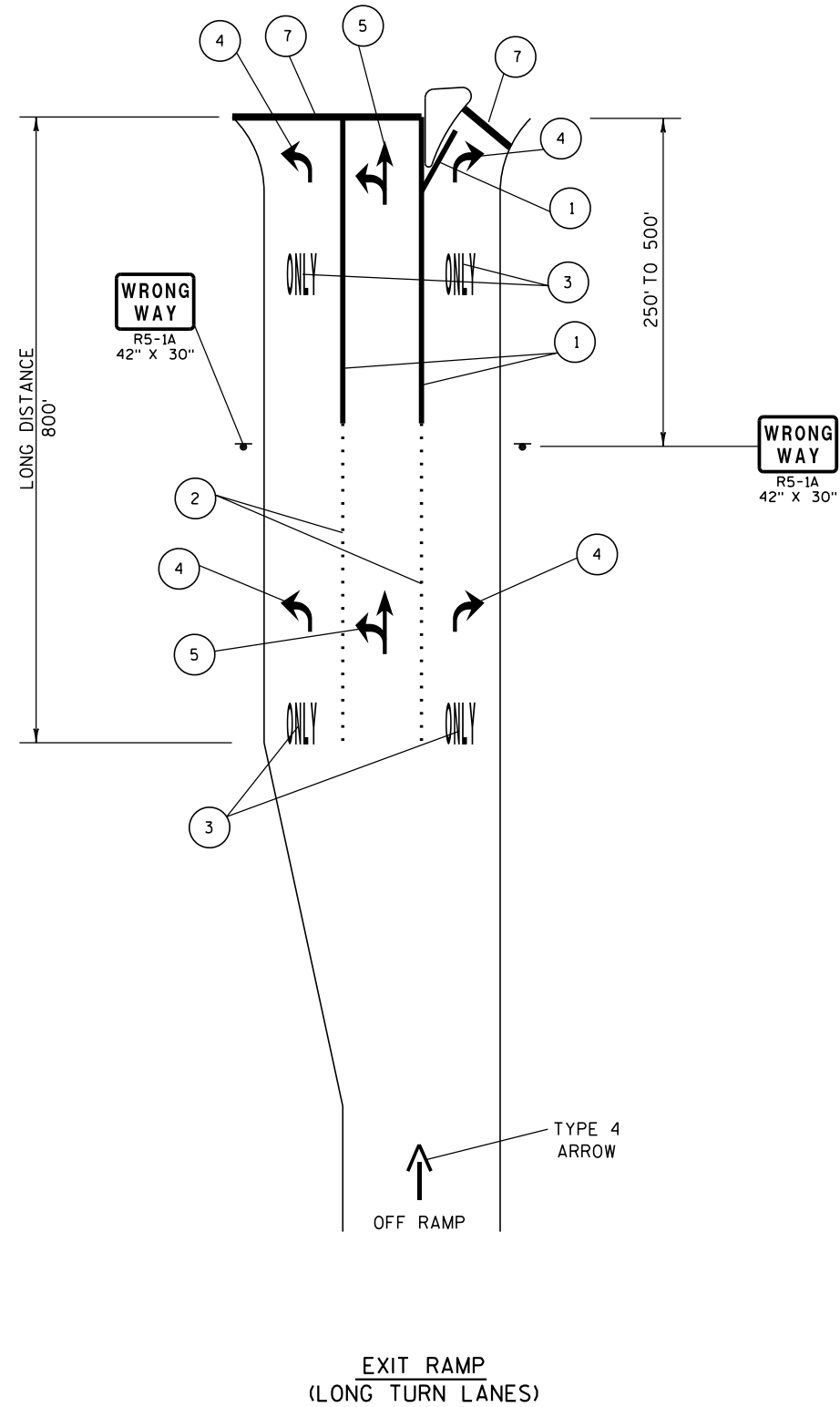
NOTE: SIGNALIZED INTERSECTION

* ⑦ DOT PATTERN NOT NEEDED
IF CURB & GUTTER UNLESS
ON CURVE

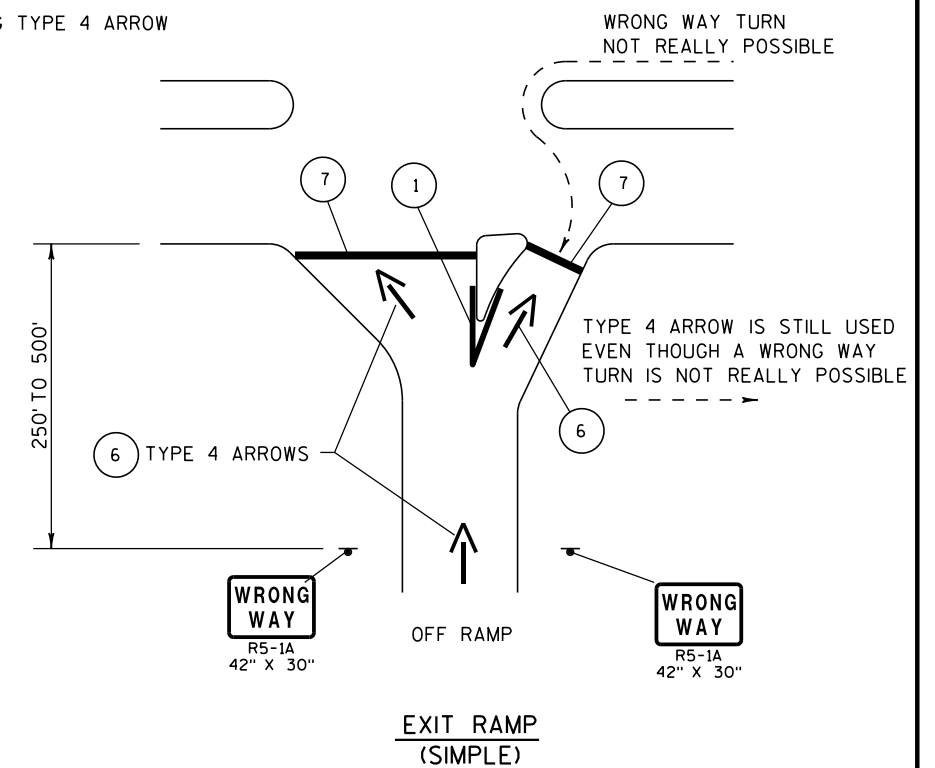
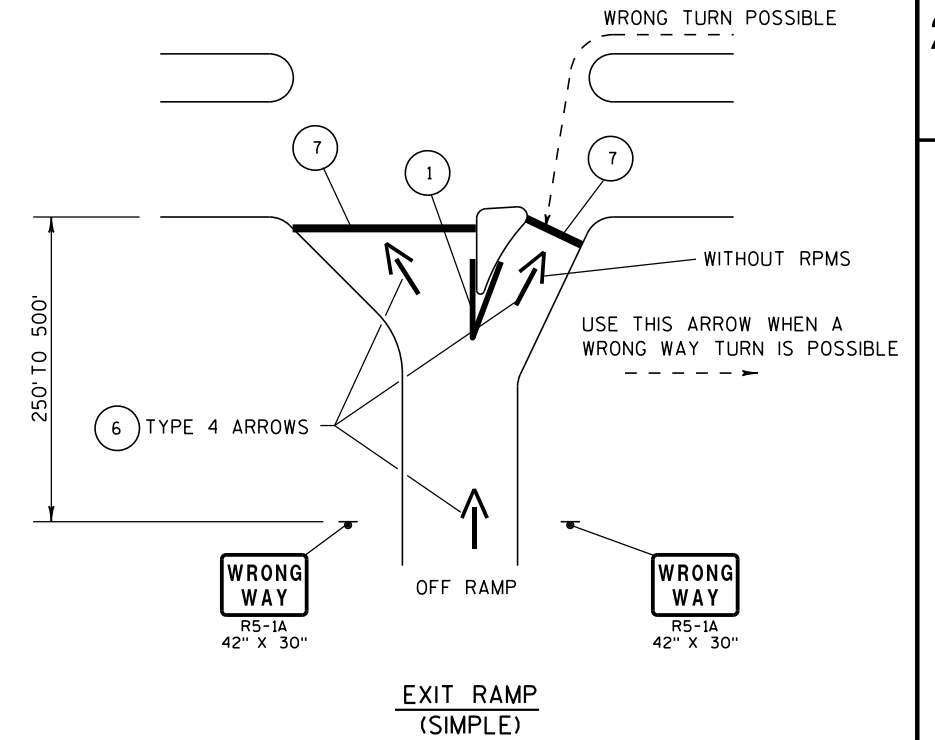
TYPICAL MARKING AT
SIGNALIZED INTERSECTION
CURB & GUTTER MEDIAN

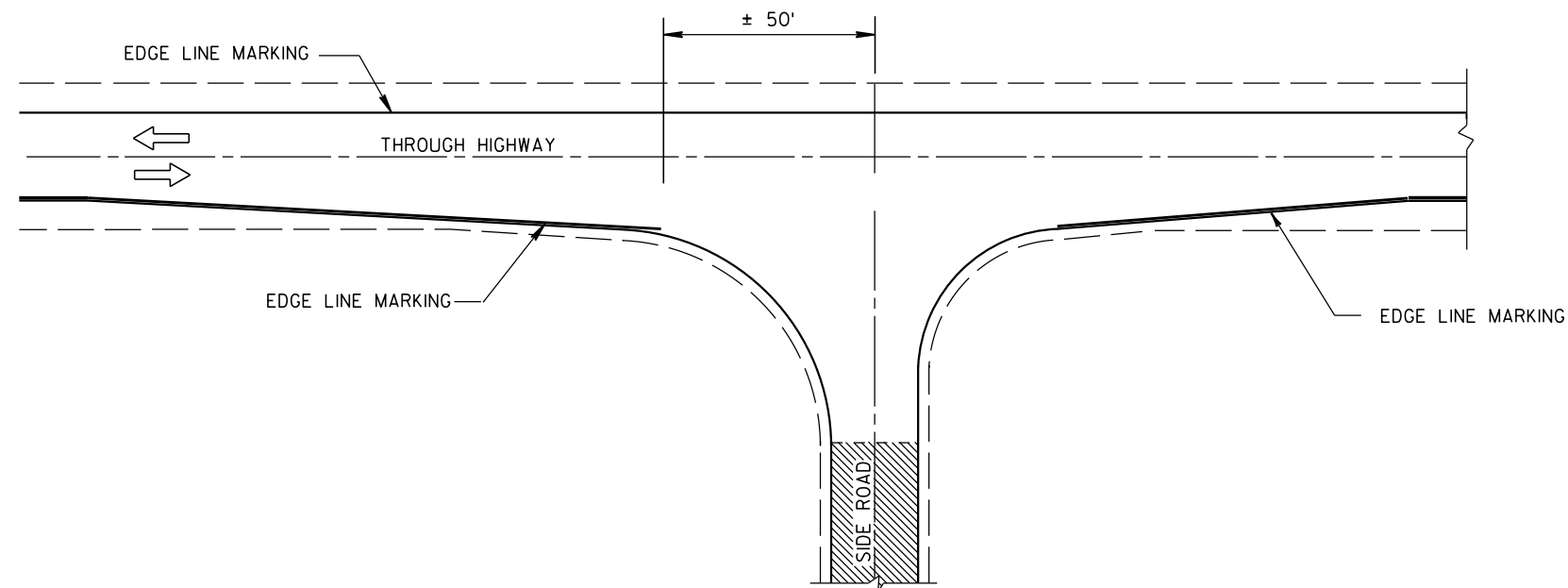
LEGEND

- 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, 9' SPACE)
- ⑧ PAVEMENT MARKING 18" STOP LINE

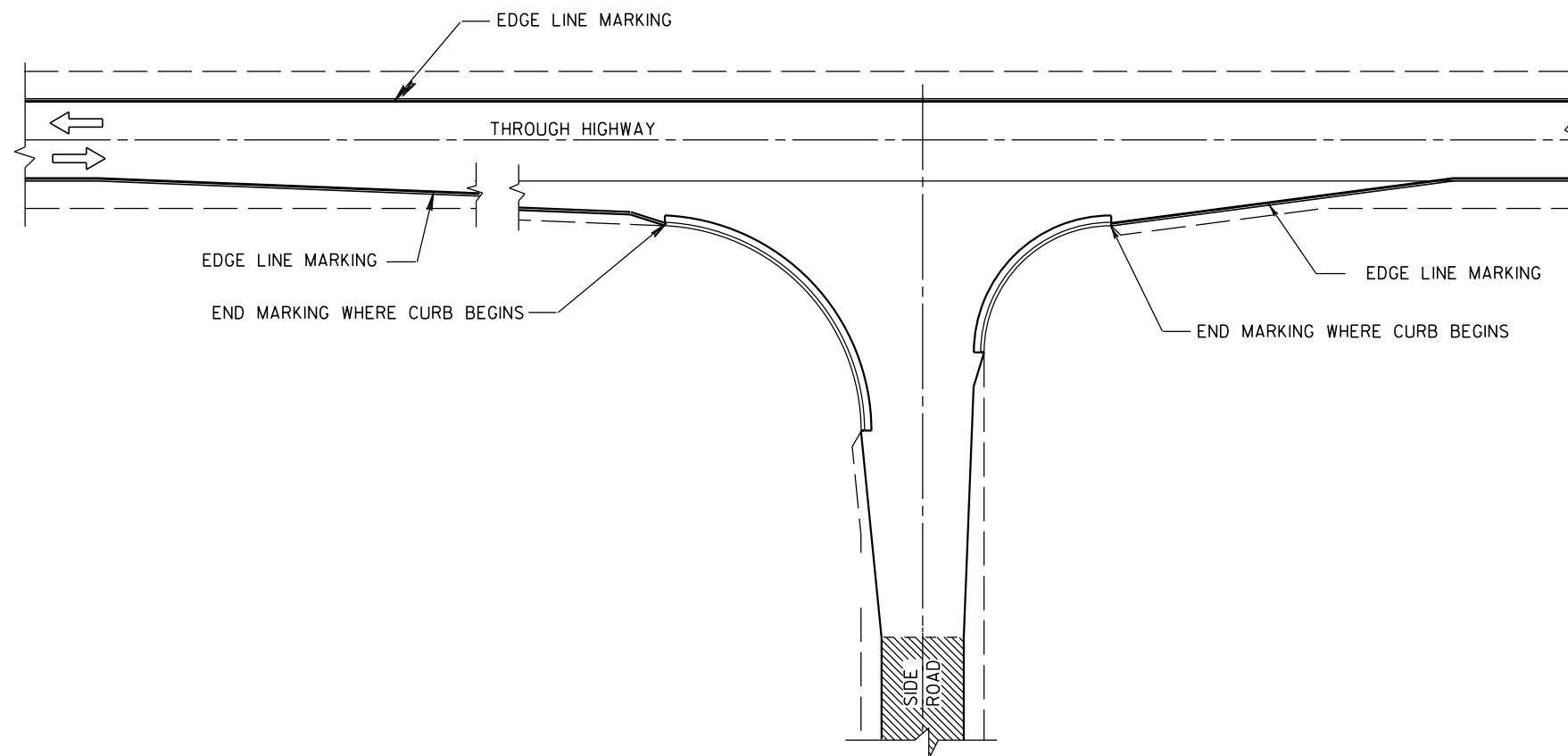
**LEGEND**

- 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

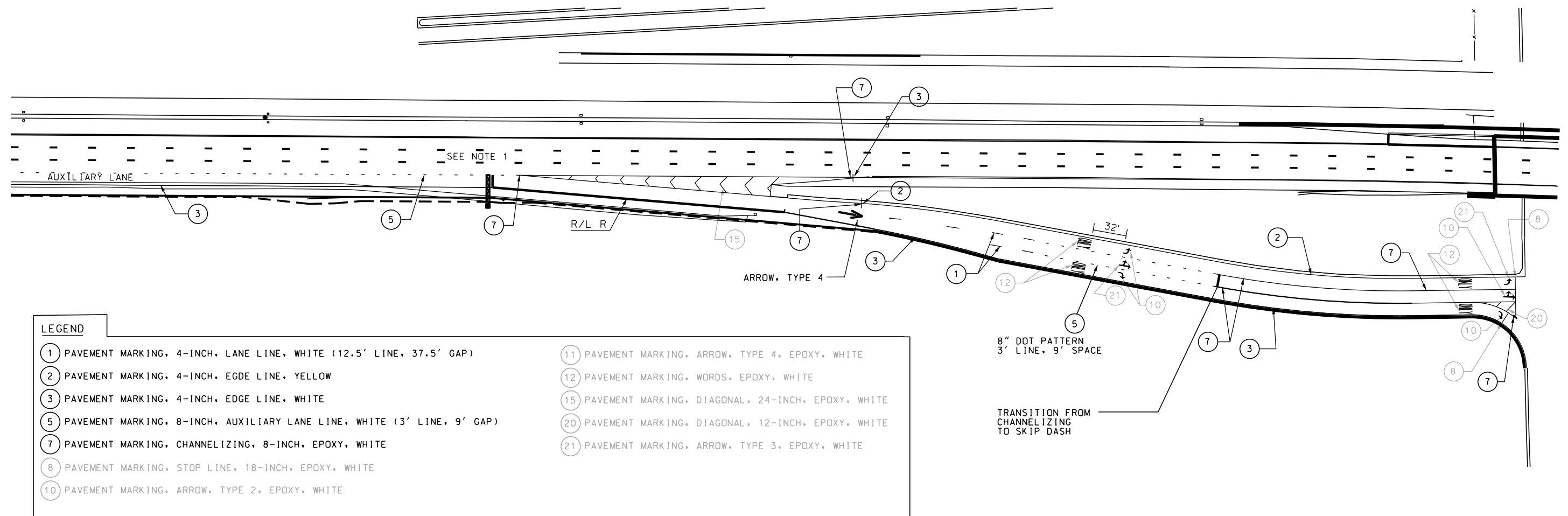




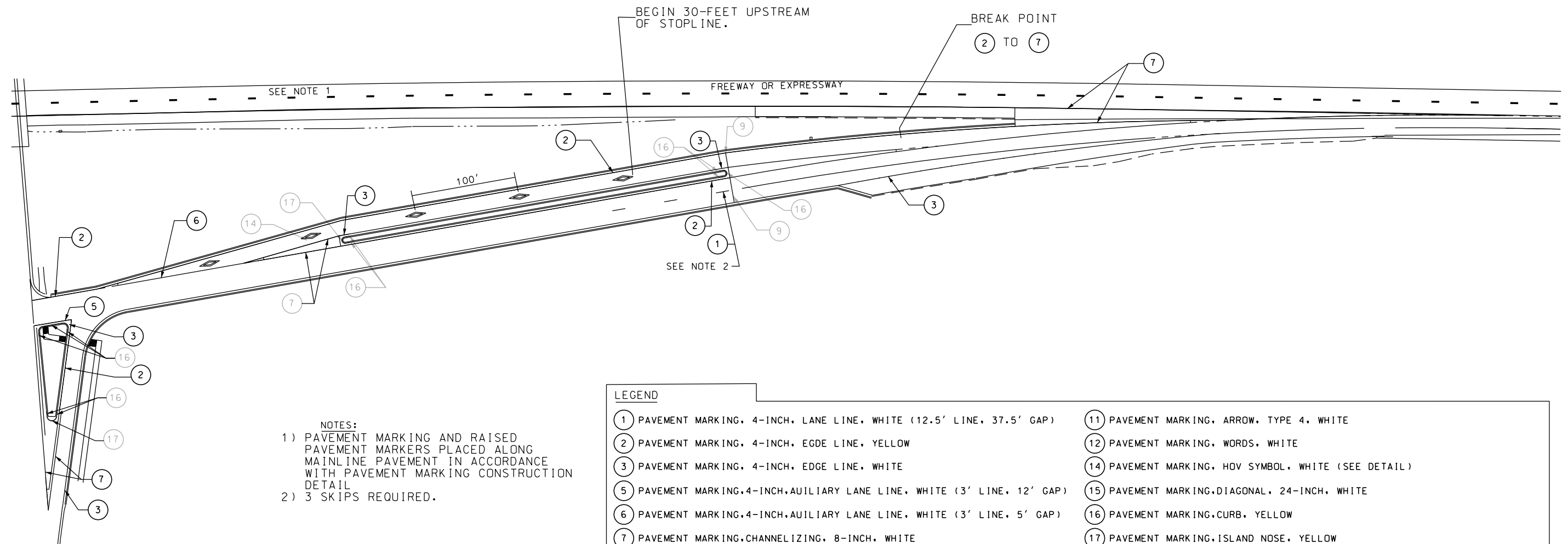
MINOR INTERSECTION WITHOUT CURBS
(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



TYPICAL OFF-RAMP PAVEMENT MARKING WITH MULTIPLE LANES



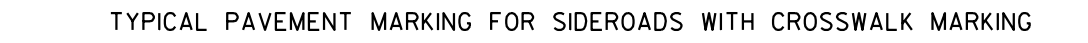
- NOTES:
- 1) PAVEMENT MARKING AND RAISED PAVEMENT MARKERS PLACED ALONG MAINLINE PAVEMENT IN ACCORDANCE WITH PAVEMENT MARKING CONSTRUCTION DETAIL
 - 2) 3 SKIPS REQUIRED.

LEGEND

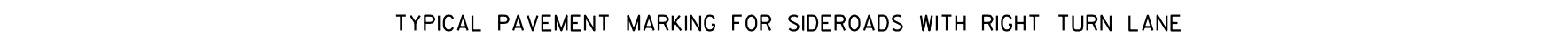
- | | |
|---|---|
| (1) PAVEMENT MARKING, 4-INCH, LANE LINE, WHITE (12.5' LINE, 37.5' GAP) | (11) PAVEMENT MARKING, ARROW, TYPE 4, WHITE |
| (2) PAVEMENT MARKING, 4-INCH, EDGE LINE, YELLOW | (12) PAVEMENT MARKING, WORDS, WHITE |
| (3) PAVEMENT MARKING, 4-INCH, EDGE LINE, WHITE | (14) PAVEMENT MARKING, HOV SYMBOL, WHITE (SEE DETAIL) |
| (5) PAVEMENT MARKING, 4-INCH, AUXILIARY LANE LINE, WHITE (3' LINE, 12' GAP) | (15) PAVEMENT MARKING, DIAGONAL, 24-INCH, WHITE |
| (6) PAVEMENT MARKING, 4-INCH, AUXILIARY LANE LINE, WHITE (3' LINE, 5' GAP) | (16) PAVEMENT MARKING, CURB, YELLOW |
| (7) PAVEMENT MARKING, CHANNELIZING, 8-INCH, WHITE | (17) PAVEMENT MARKING, ISLAND NOSE, YELLOW |
| (8) PAVEMENT MARKING, STOP LINE, 18-INCH, WHITE | |
| (9) PAVEMENT MARKING, STOP LINE, 18-INCH, WHITE | |
| (10) PAVEMENT MARKING, ARROW, TYPE 2, WHITE | |

TYPICAL RAMP METER AND HOV LANE MARKING

2



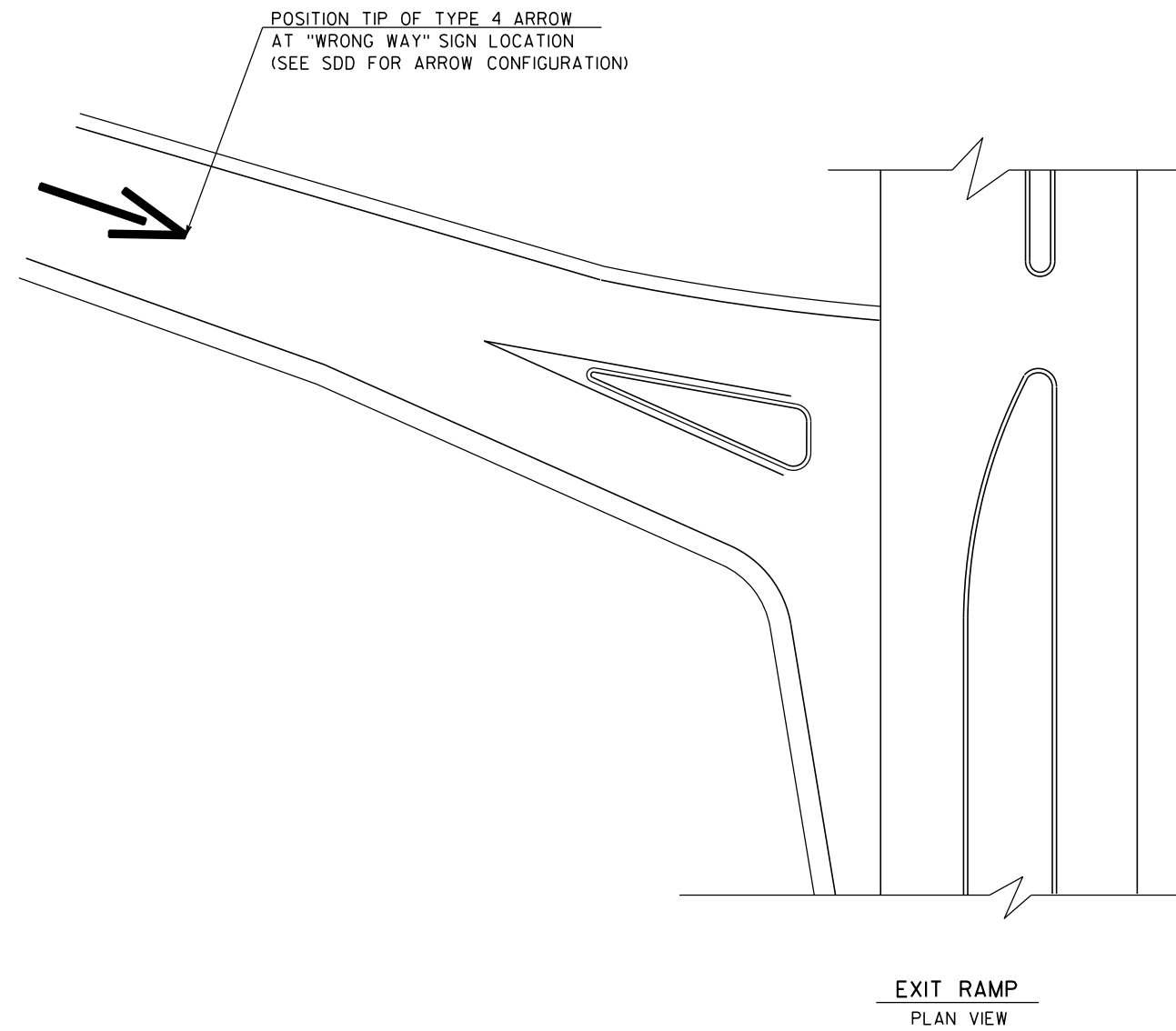
SECTION 3B.16-MUTCD STOP LANE
SHOULD BE PLACED NOT LESS
THAN 4' FROM NEAREST EDGE OF
INTERSECTING TRAVELED WAY



18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE
PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

■ CROSSWALK MARKINGS EXIST OR BEING PROVIDED

- OFFSET LEFT TURNS WHERE STOP BAR FOR LEFT TURN IS SET BACK FROM THRU MOVEMENT.



(RAMPS & ARROWS)

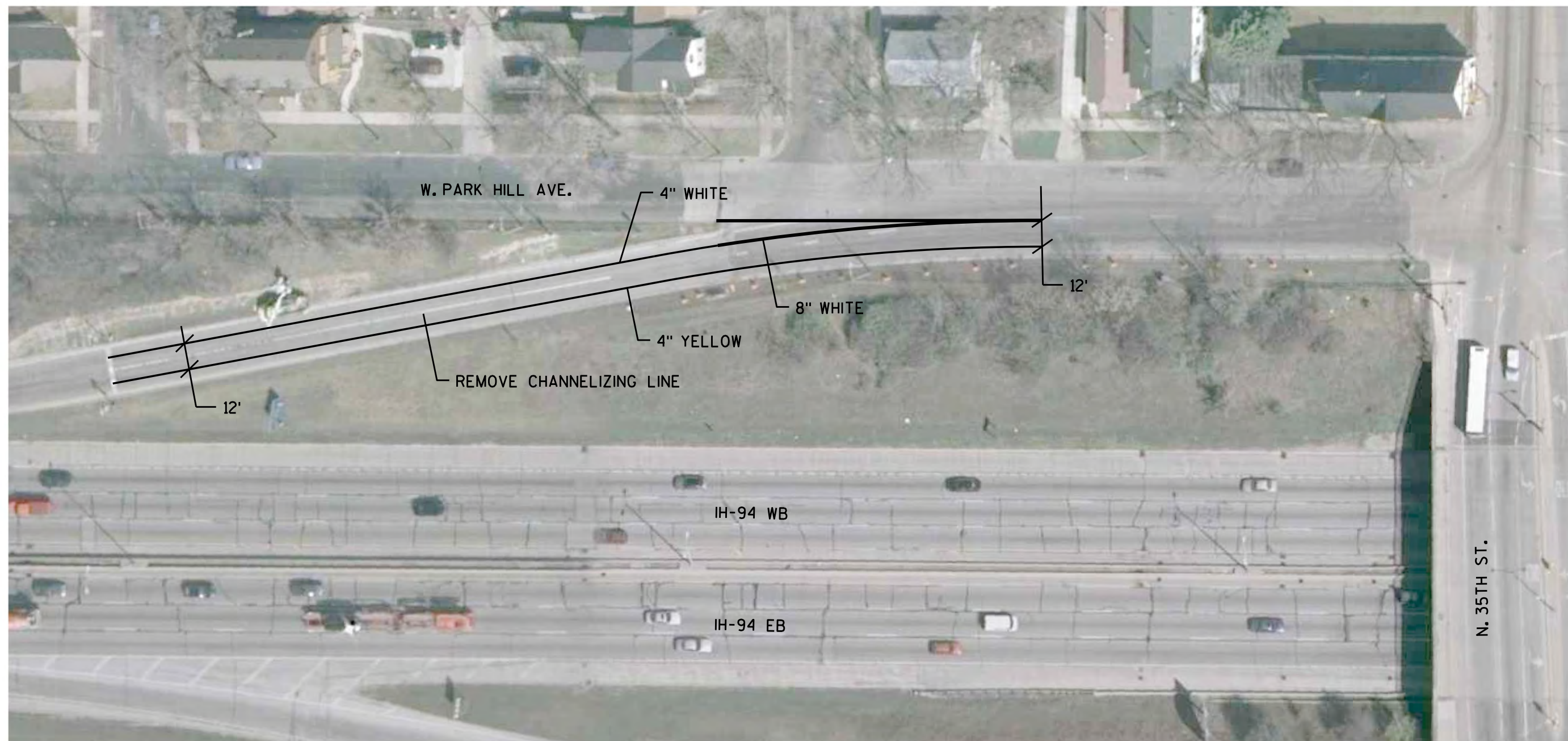


DETAIL S1
CTH A @ S. RIVER RD.
AT BURLINGTON BYPASS



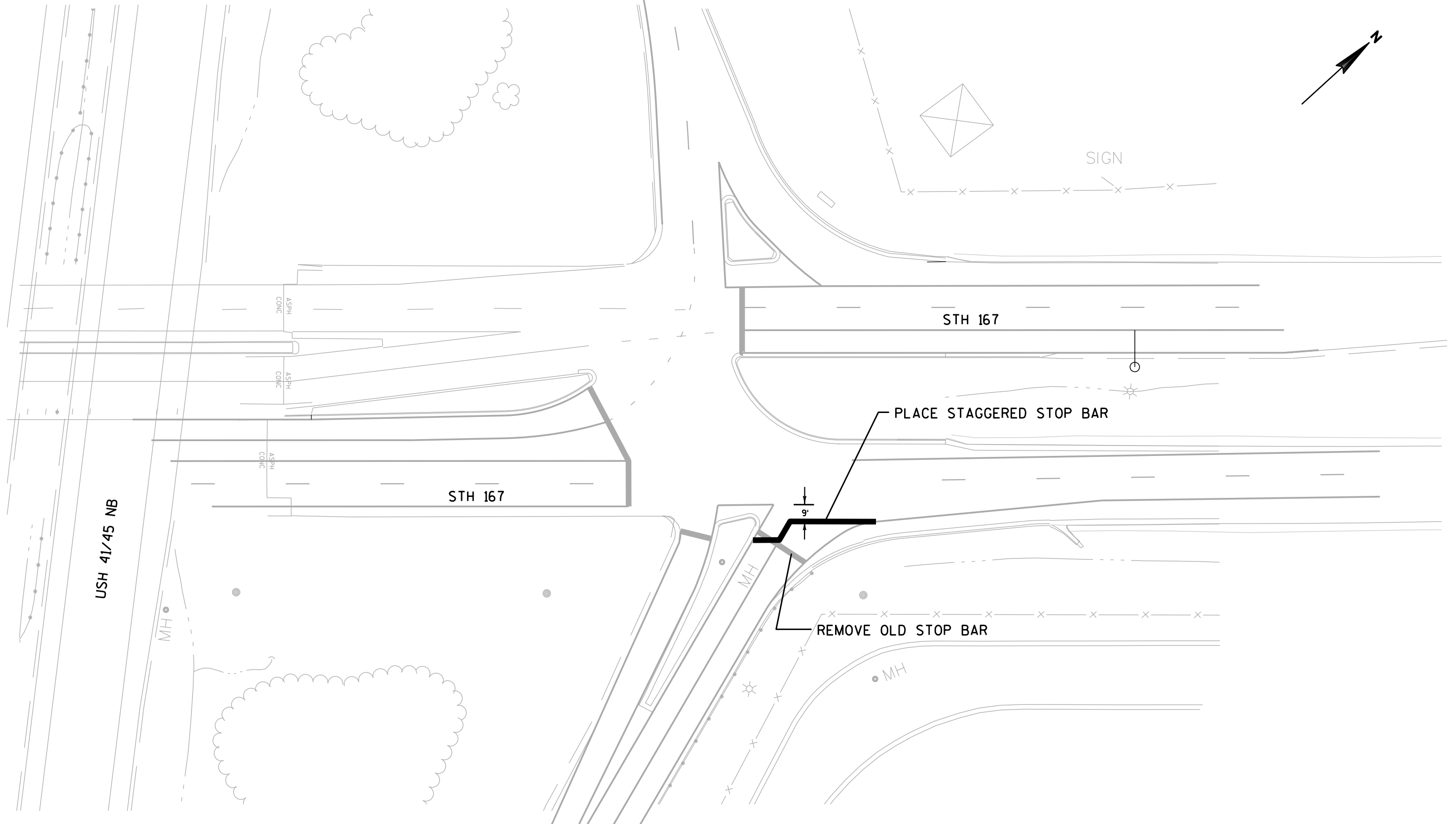
DETAIL S2
STH 32 @ CANDLE CT.
RACINE COUNTY NEAR 5 MILE RD.

NOTE:
CONTACT TOM HEYDEL 5 DAYS PRIOR
TO MARKING FOR VERIFICATION.



DETAIL S3

I-94 WB ON RAMP @ W. PARK HILL AVE. (NEAR 35TH ST.)



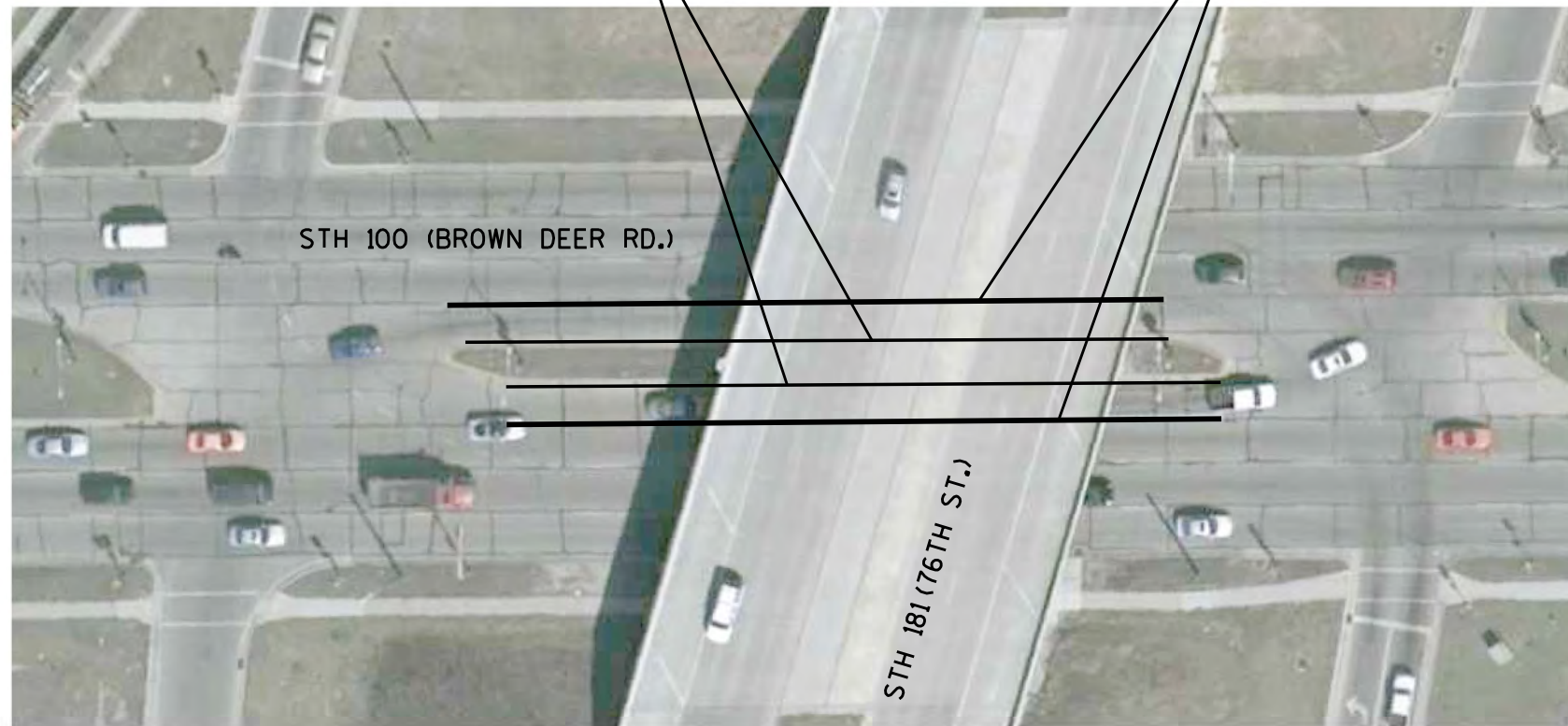
DETAIL S4

USH 41/45 NB RAMP @ STH 167

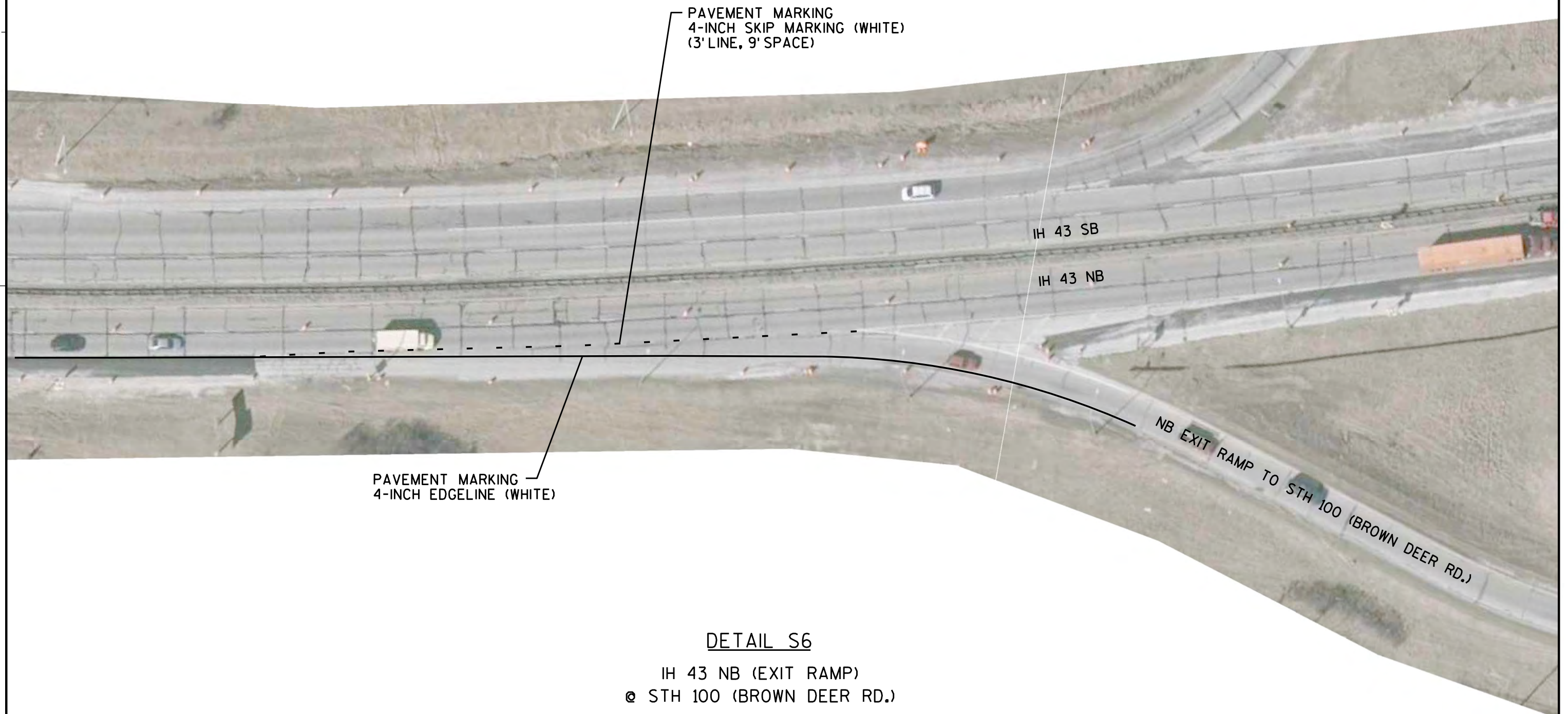


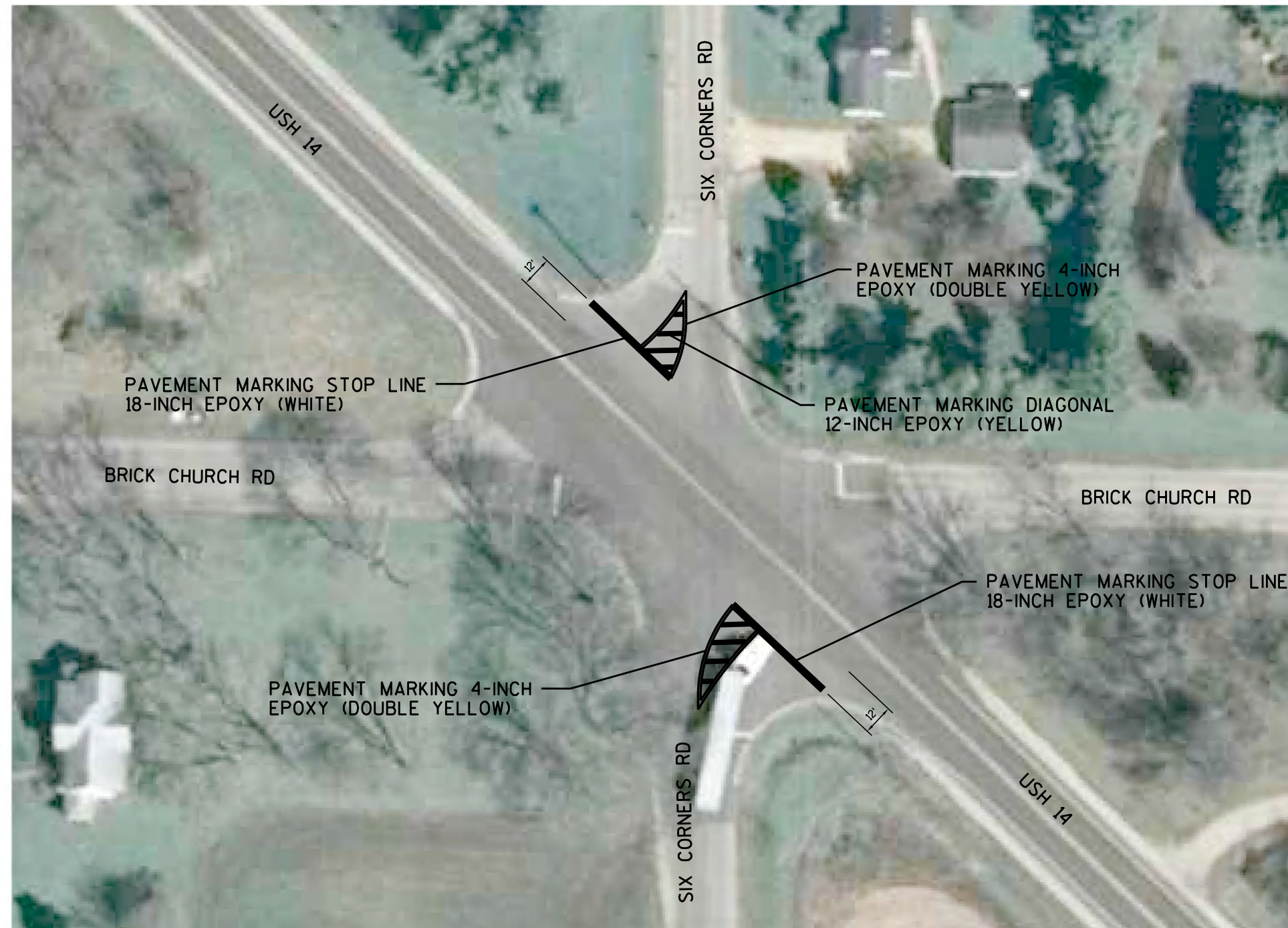
PAVEMENT MARKING
4" EDGELINE (YELLOW)

PAVEMENT MARKING
8" CHANNELIZING (WHITE)

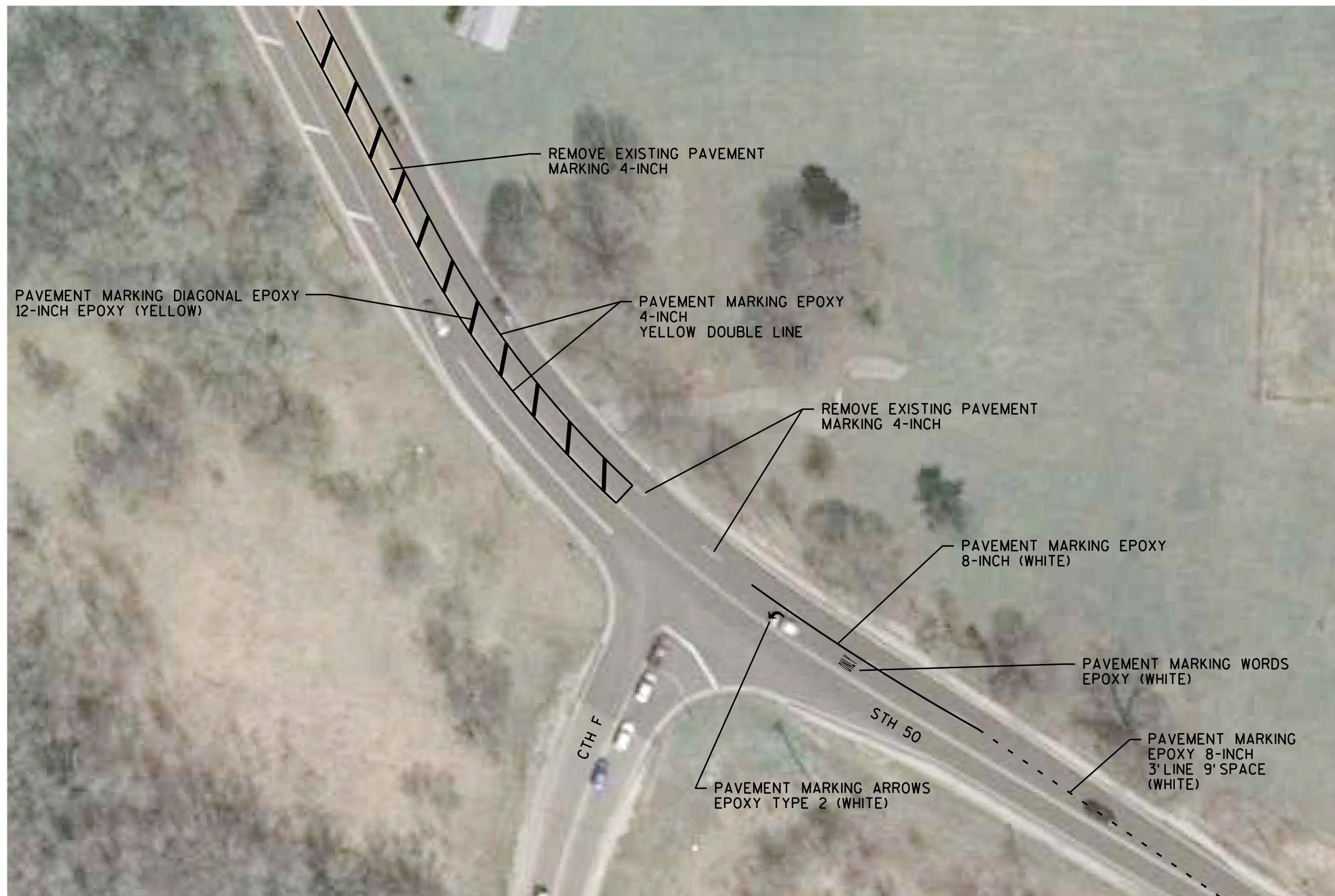


DETAIL S5
STH 100 (BROWN DEER RD.)
@ STH 181 (76TH ST.)

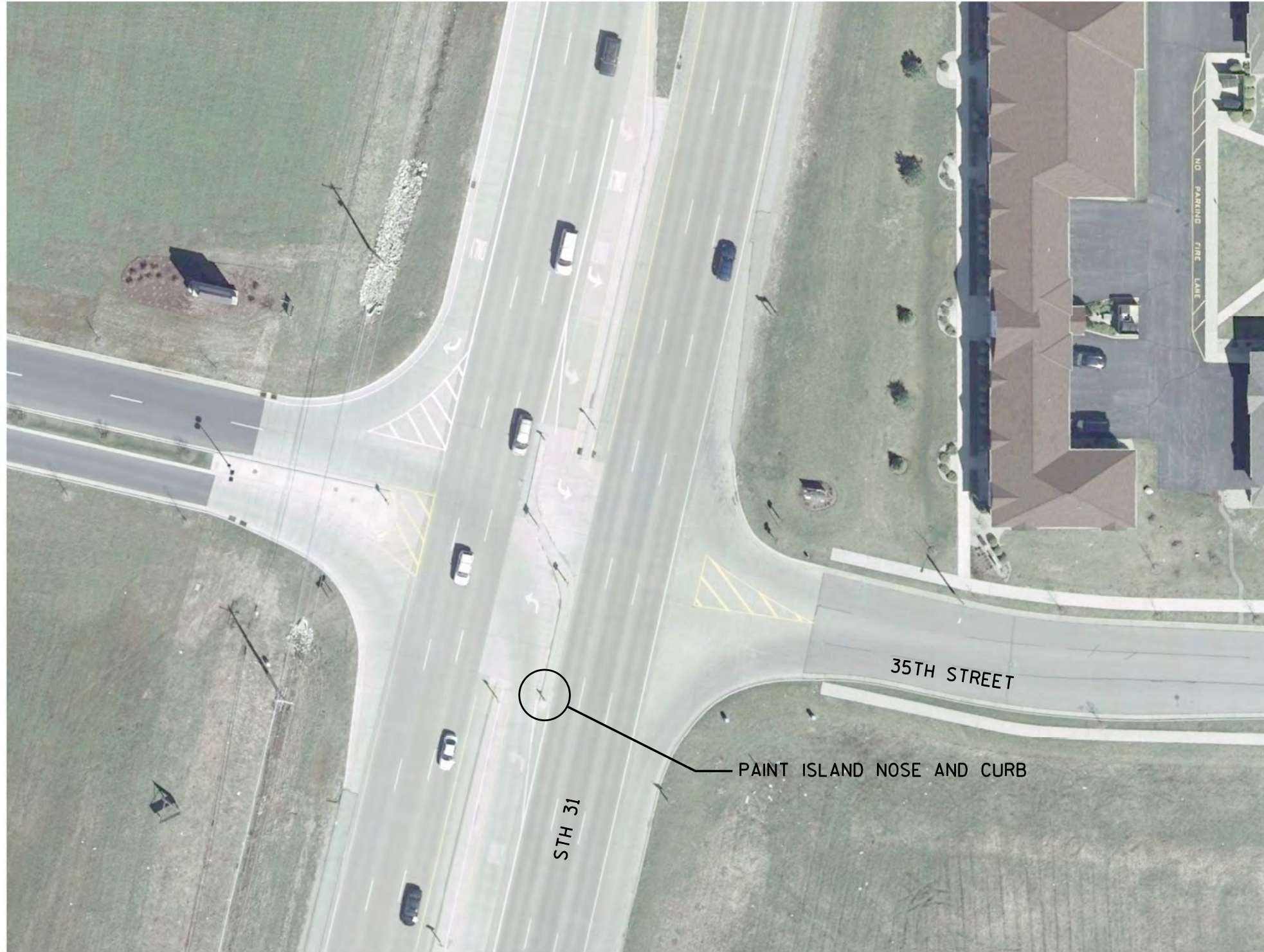




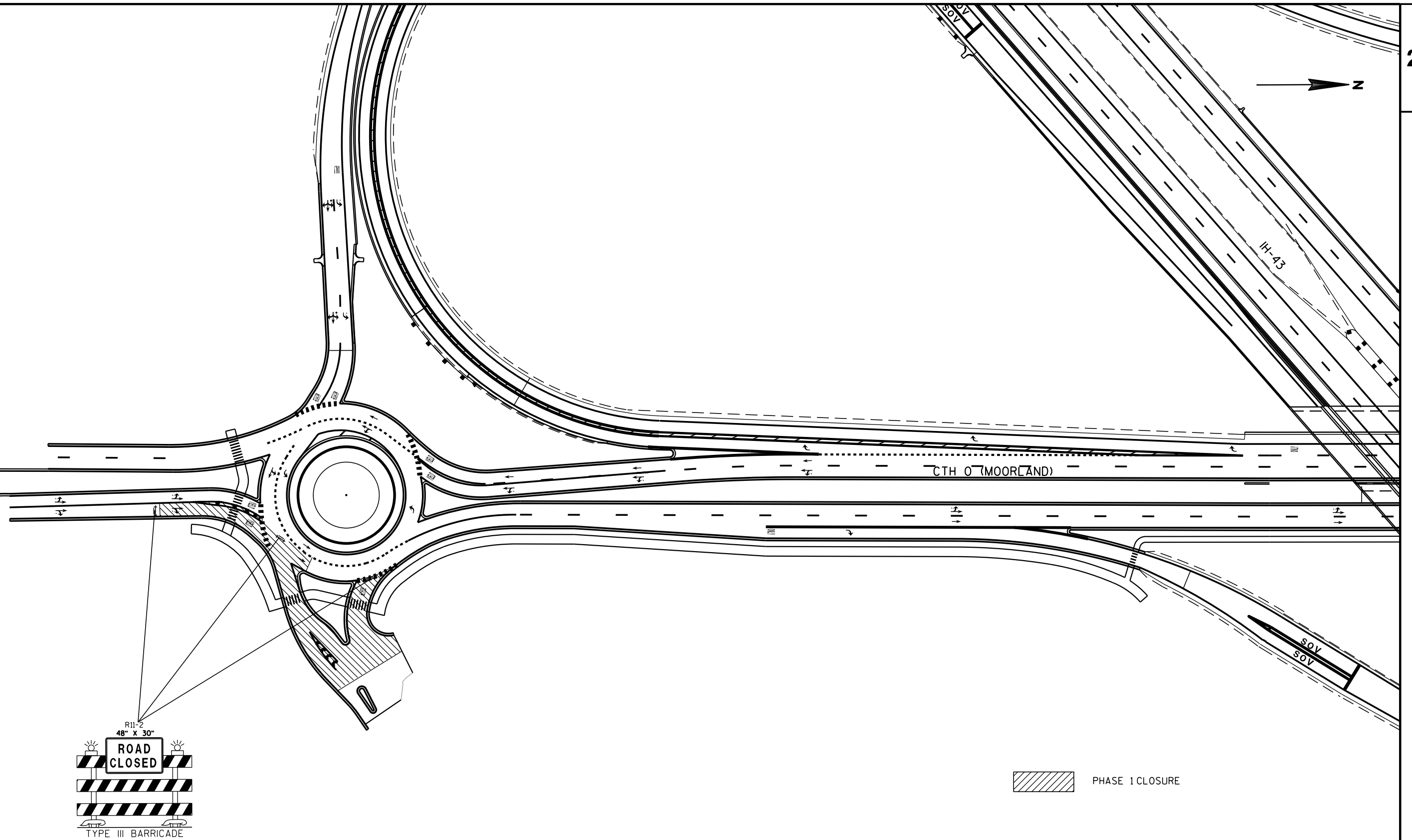
DETAIL S7
USH 14 @ SIX CORNERS RD.



DETAIL S8
STH 50 @ CTH F



DETAIL S9
STH 31 @ 35TH ST.



SHEET 1 OF 16

PROJECT NO: 1000-77-16

HWY: I-43

COUNTY: WAUKESHA

TRAFFIC CONTROL STAGE 1

SHEET

E

FILE NAME : N:\PDS\Projects\10007716\Plan_Set\026001.S1.dgn

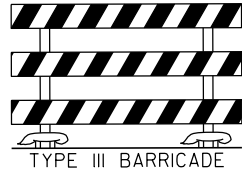
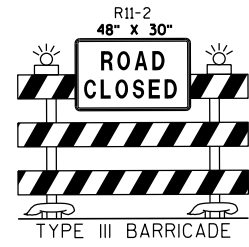
PLOT DATE : 22-JAN-2016 07:22

PLOT BY : dotcmv

PLOT NAME :

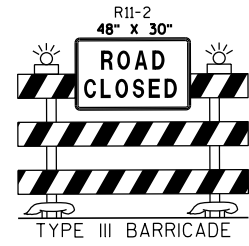
PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42



1

2



3

2

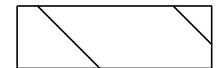
3

2

3

CTH O (MOORLAND)

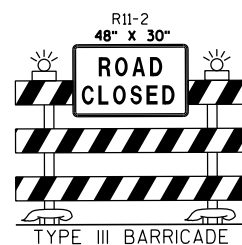
IH-43



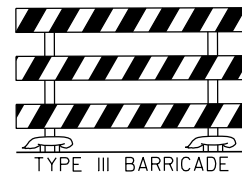
PHASE 2 CLOSURE

2

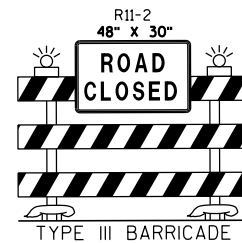
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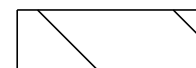
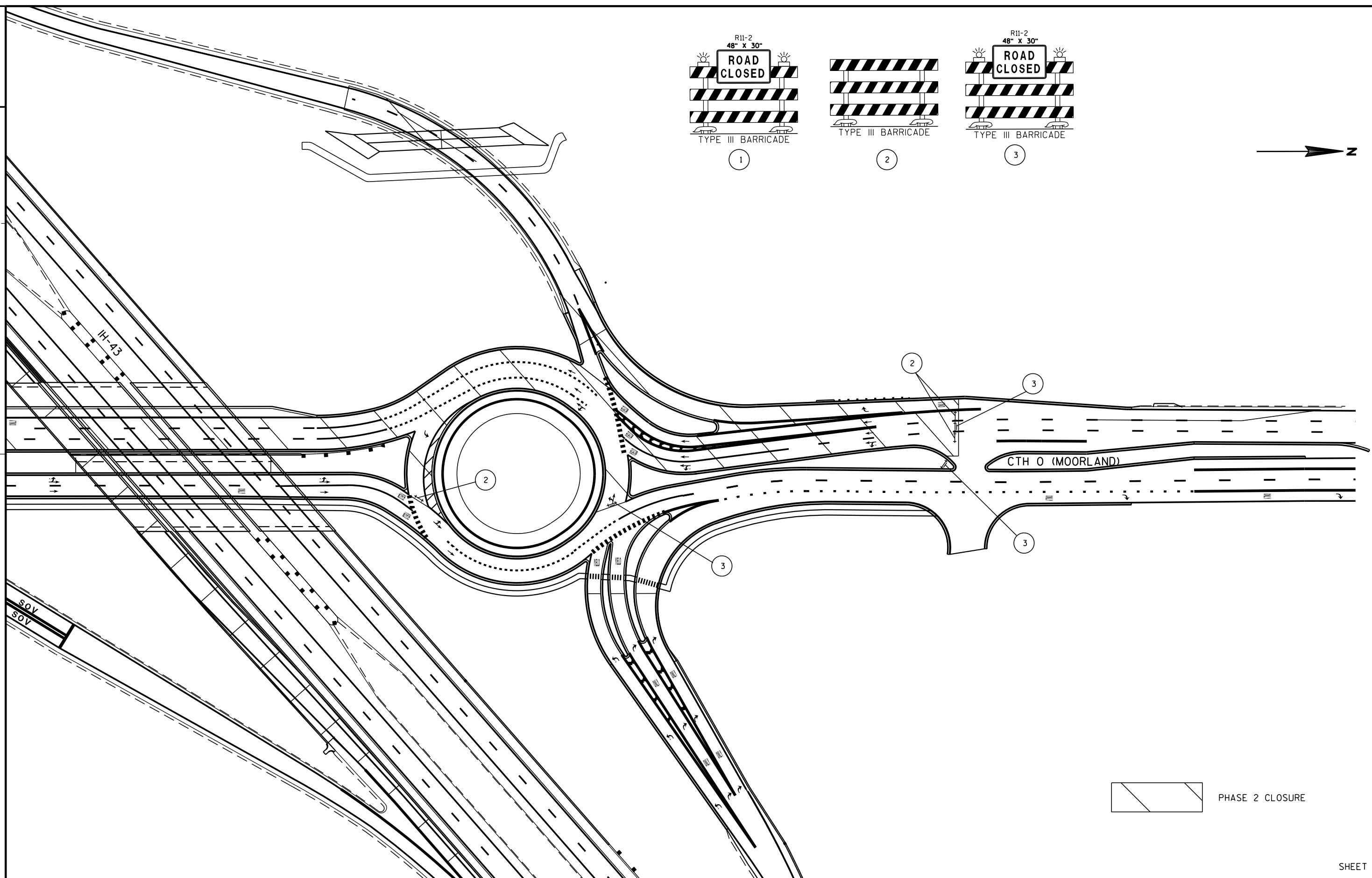
1



2



3



PHASE 2 CLOSURE

SHEET 3 OF 16

PROJECT NO:1000-77-16

HWY:I-43

COUNTY:WAUKESHA

TRAFFIC CONTROL STAGE 2

SHEET

E

FILE NAME : N:\PDS\Projects\10007716\Plan.Set\026102.S2.dgn

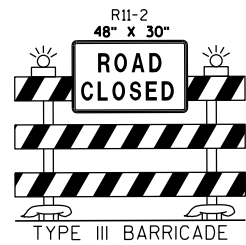
PLOT DATE : 22-JAN-2016 07:22

PLOT BY : dotcmv

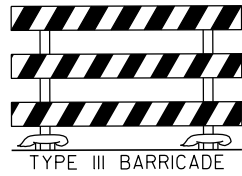
PLOT NAME :

PLOT SCALE : 100:1

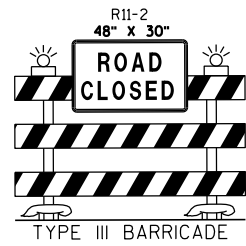
WISDOT/CADDs SHEET 42



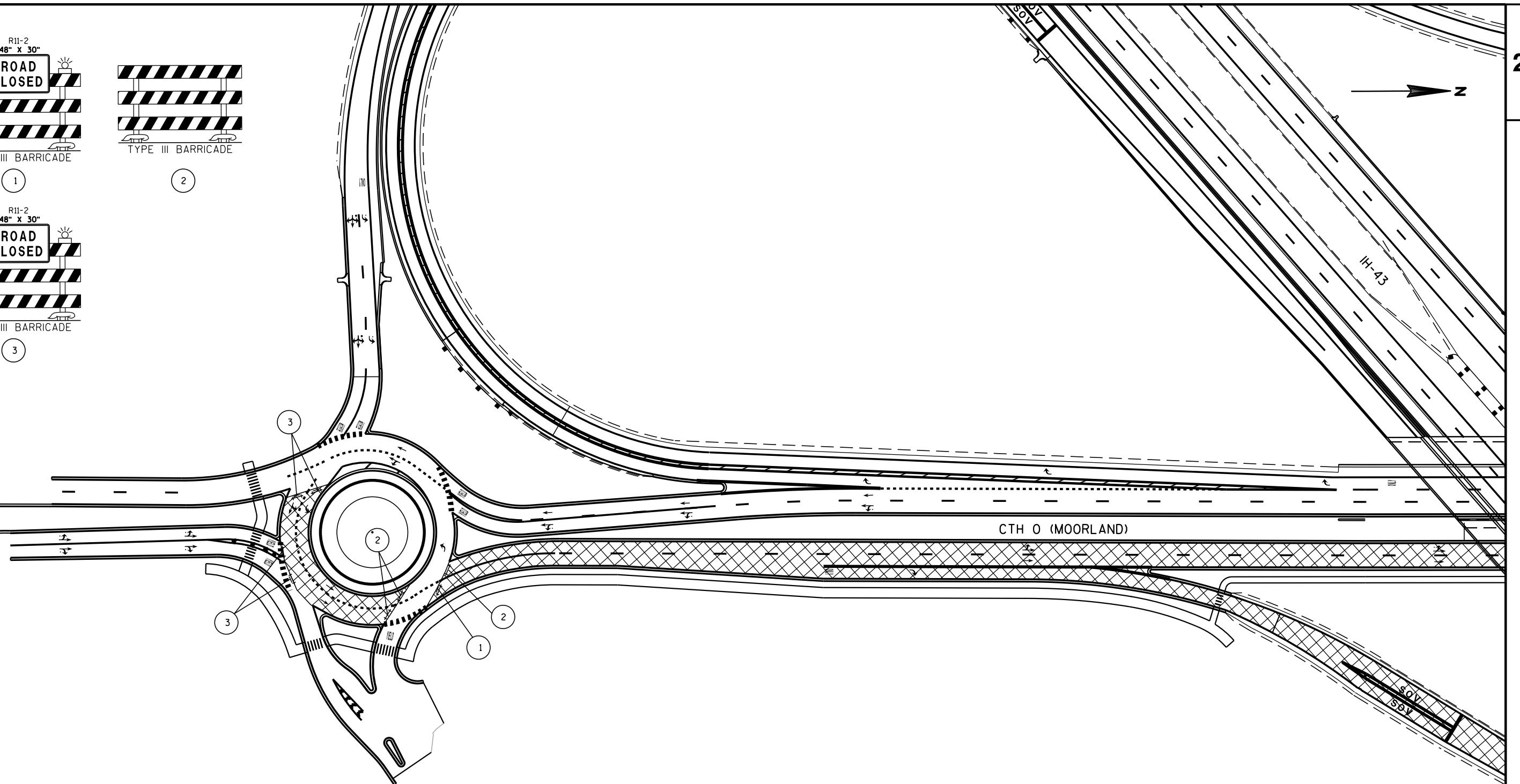
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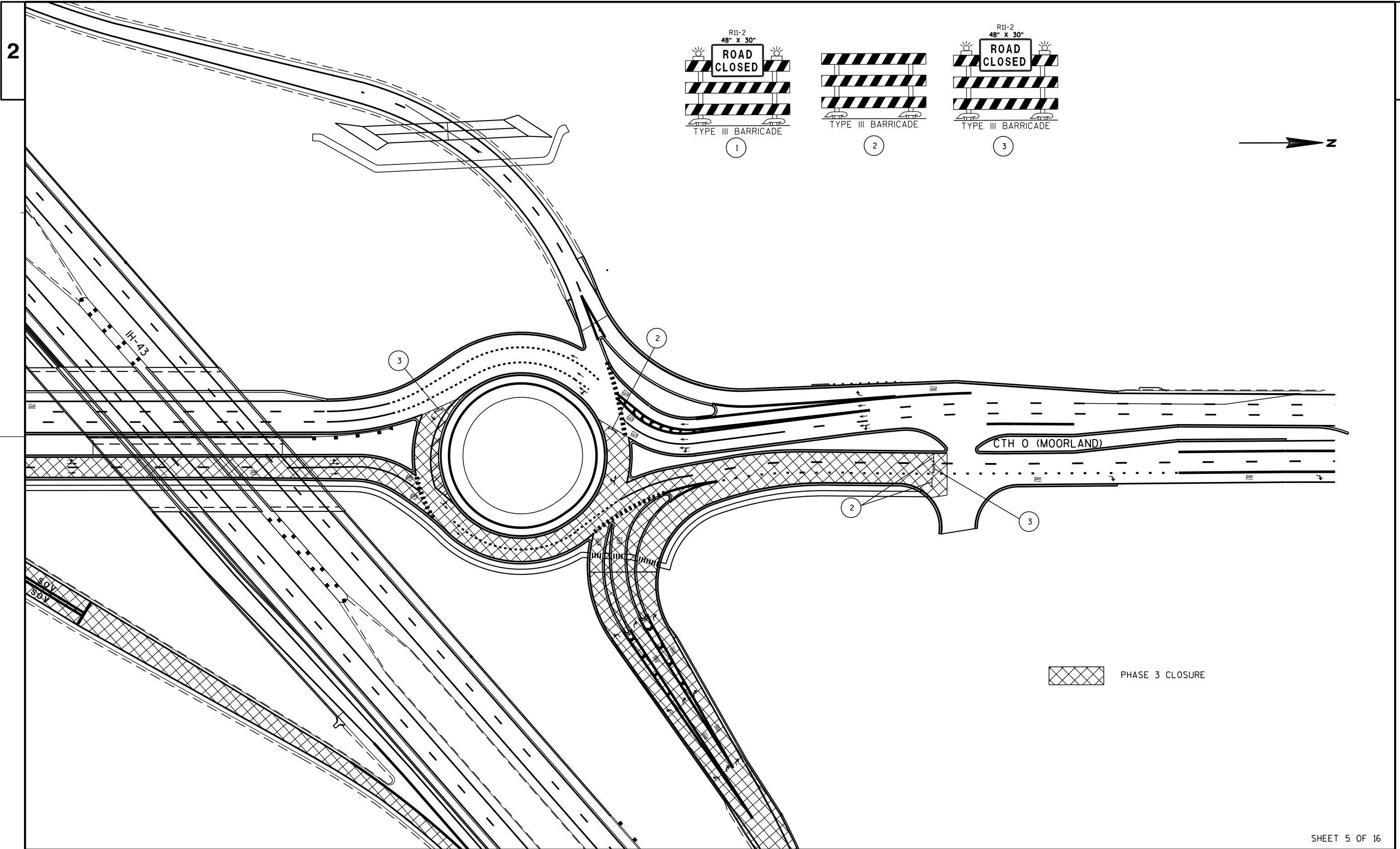
2

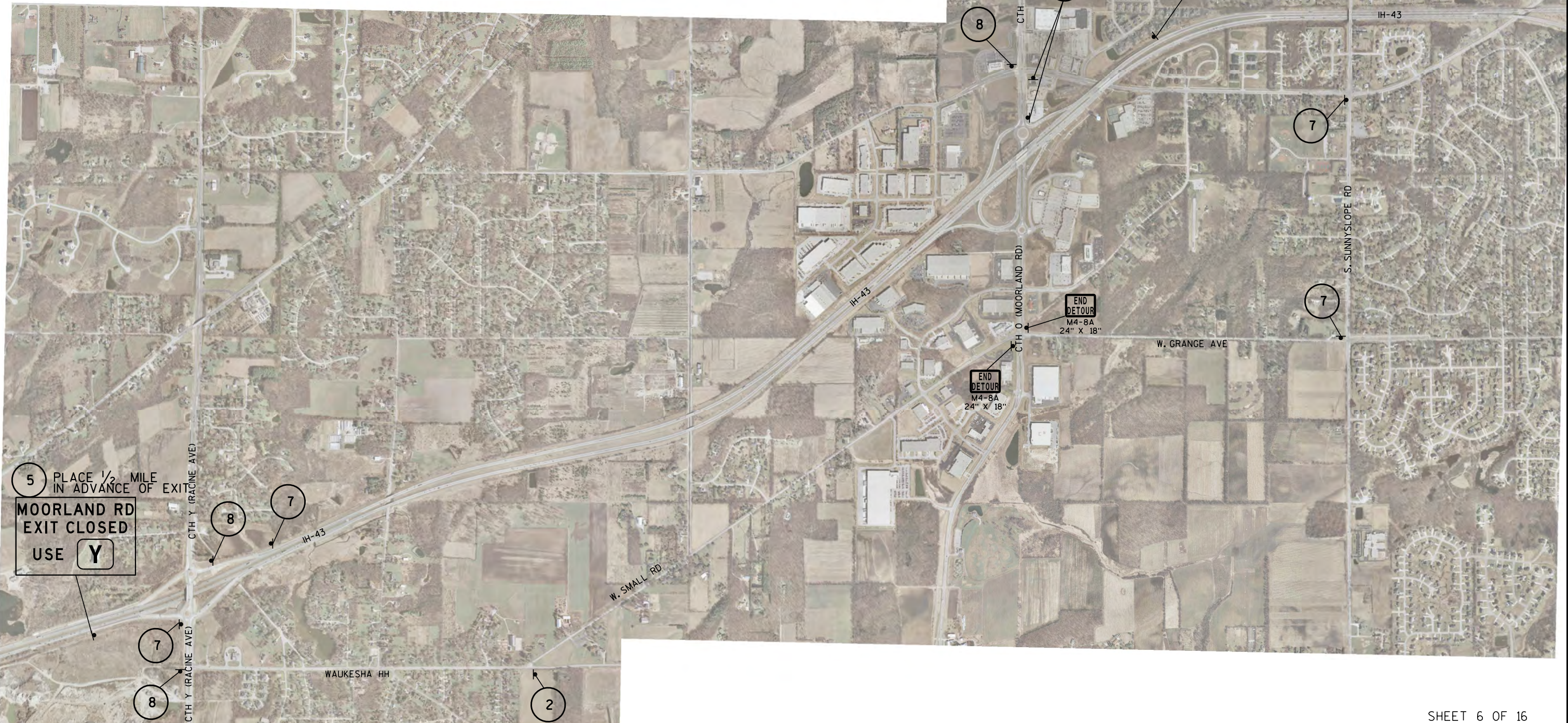


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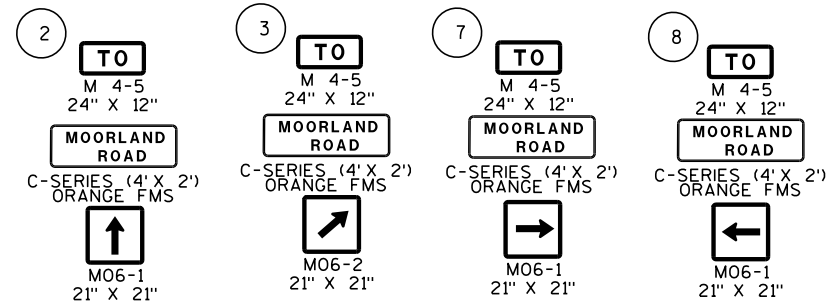
PHASE 3 CLOSURE





WAUKESHA COUNTY ROUNDABOUT AT I-43 & CTH Y (MOORLAND RD)

1000-77-16



SHEET 7 OF 16

PROJECT NO: 1000-77-16

HWY: I-43

COUNTY: WAUKESHA

DETOUR - STAGE 3

SHEET

E

FILE NAME : N:\PDS\Projects\10007716\Plan.Set\027002.dwg

PLOT DATE : 22-JAN-2016 07:24

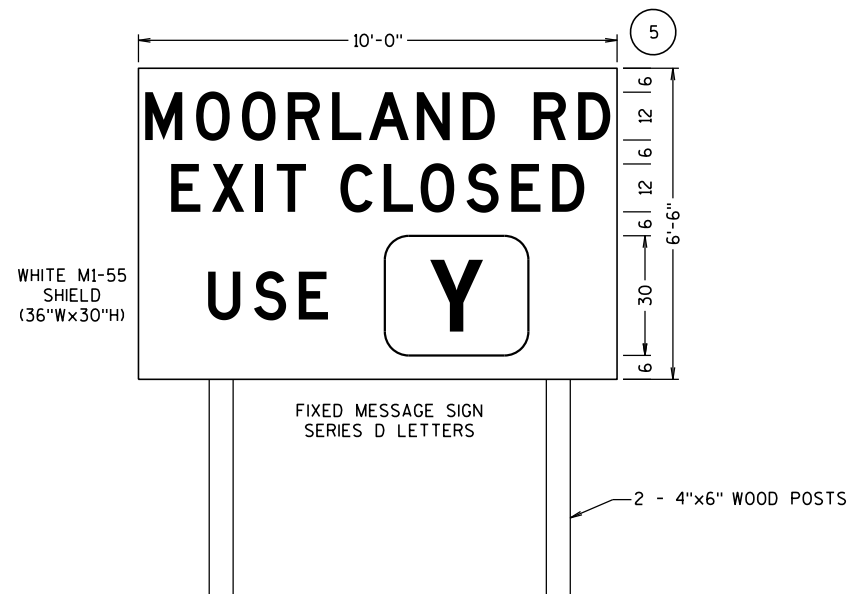
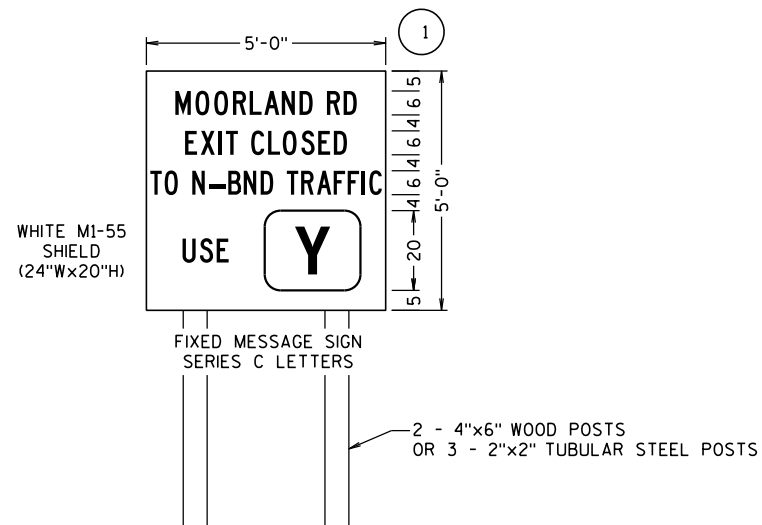
PLOT BY : dotcmv

PLOT NAME :

PLOT SCALE : 1600:1

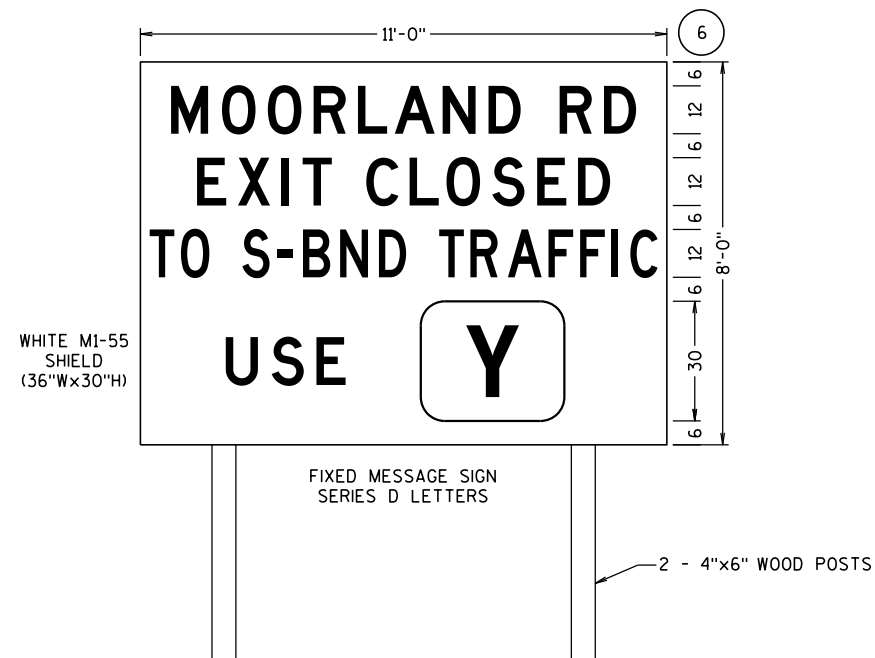
WISDOT/CADDS SHEET 42

(X) = SIGN NUMBER



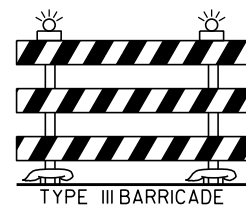
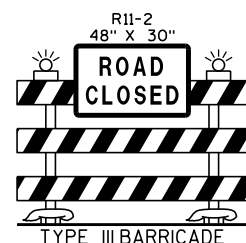
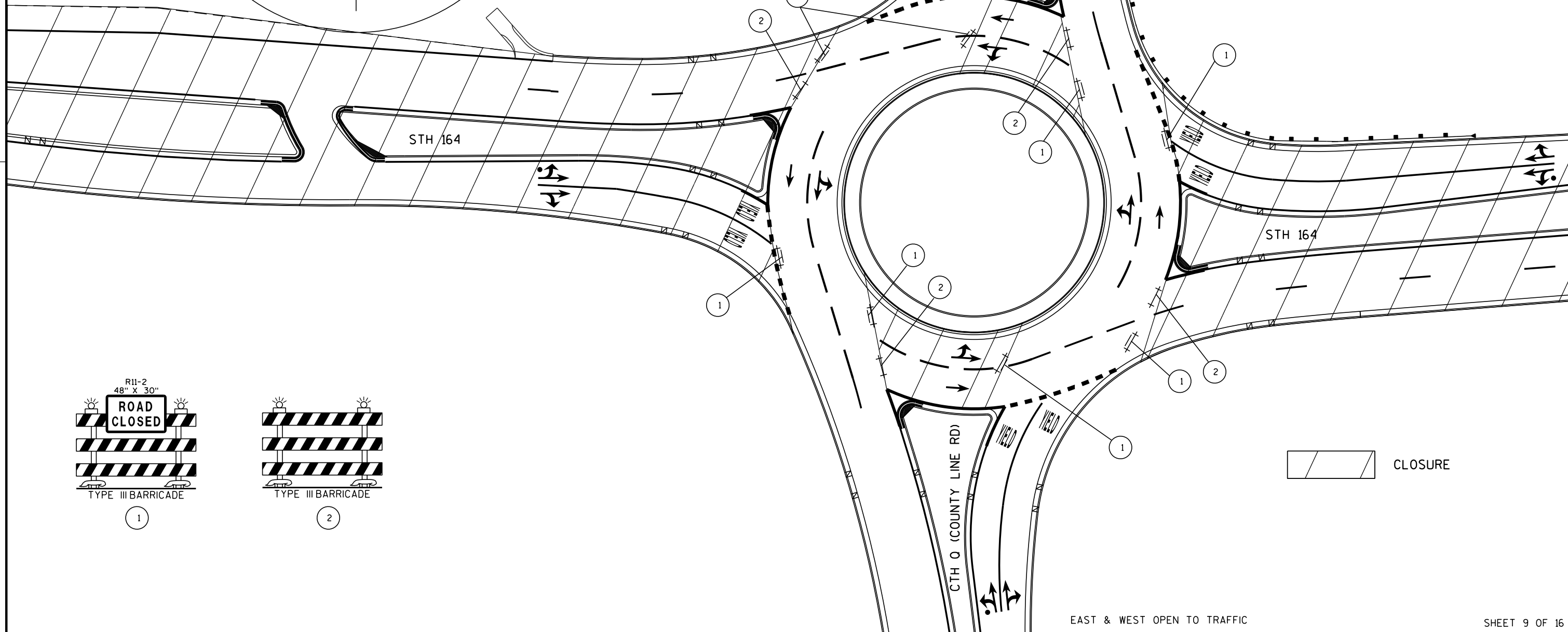
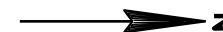
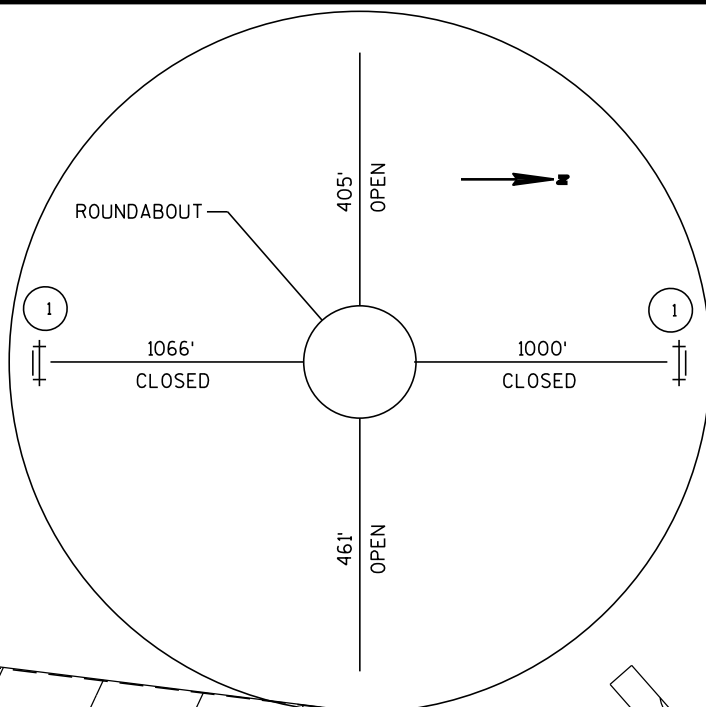
GENERAL NOTES:

1. ALL SIGNS TO HAVE STANDARD REFLECTIVE SHEETING - REFERENCE: "WISDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION.
2. AFTER SIGNS HAVE BEEN LOCATED IN THE FIELD, BUT BEFORE INSTALLATION, THE SIGNING AND MARKING SUPERVISOR SHALL VERIFY EACH SIGN LOCATION.
3. ALL SIGNS TO BE MOUNTED ON WOODEN POST SUPPORTS (4"x6"). THE NUMBER OF POSTS REQUIRED FOR EACH LAYOUT IS SHOWN.
4. SIGNS ON THIS SHEET TO BE PAID UNDER THE ITEM "FIXED MESSAGE SIGNS."
5. SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE REFLECTIVE BACKGROUND.
6. ALL SIGNS SHALL HAVE CAPITAL LETTERS AND NUMERALS:
12" CAPS SHALL BE SERIES "D"
6" CAPS SHALL BE SERIES "C"
7. BEGIN XXX XX SIGNS SHALL BE SEPARATE PANELS, BUT SHALL BE CONSIDERED AS PART OF THE SIGN AND SHOULD BE REMOVED OR COVERED AFTER THEIR EFFECTIVE DATE. THE MONTH AND DAY SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.
8. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO MANUFACTURING.
9. SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 637.2.1.2.
10. SIGNS TO BE IN PLACE 10 DAYS PRIOR TO CONSTRUCTION.



2

2



CLOSURE

EAST & WEST OPEN TO TRAFFIC

SHEET 9 OF 16

PROJECT NO:1000-77-16

HWY: STH 164 & CTH Q

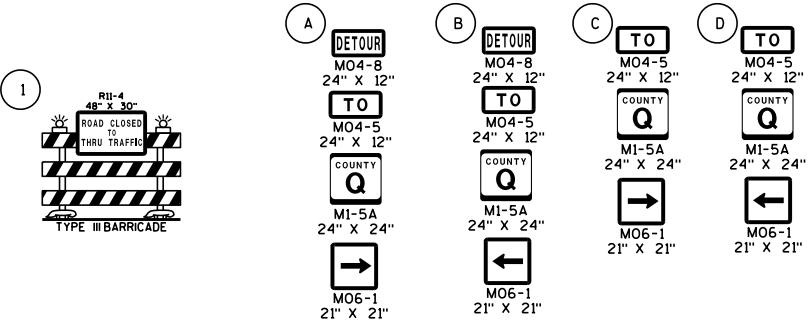
COUNTY: WAUKESHA

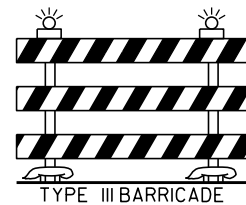
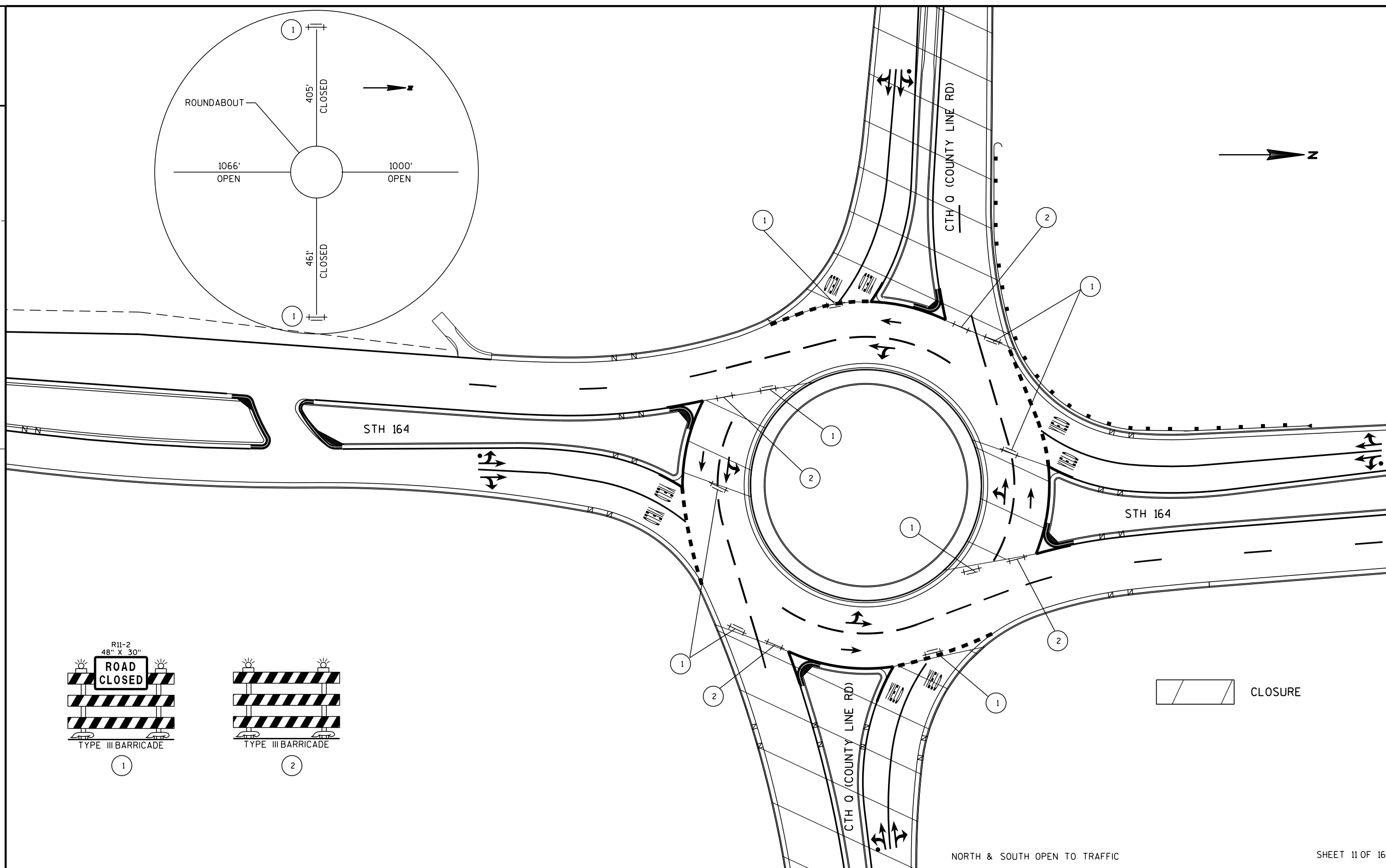
TRAFFIC CONTROL STAGE 4 - STH 164 & CTH Q

SHEET

	E
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WAUKESHA COUNTY ROUNDABOUT AT STH 164 & CTH Q
1000-77-16

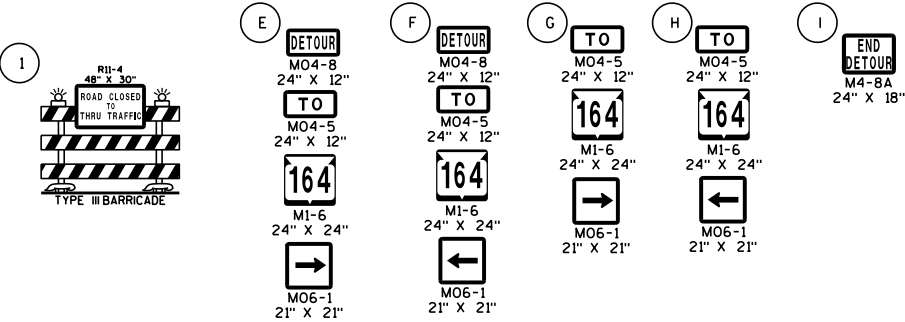


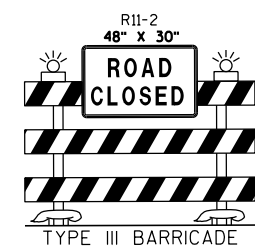


CLOSURE

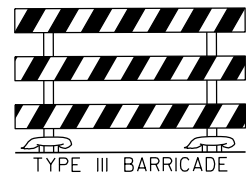
SHEET 11 OF 16

1000-77-16

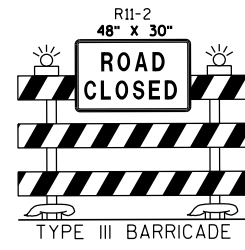




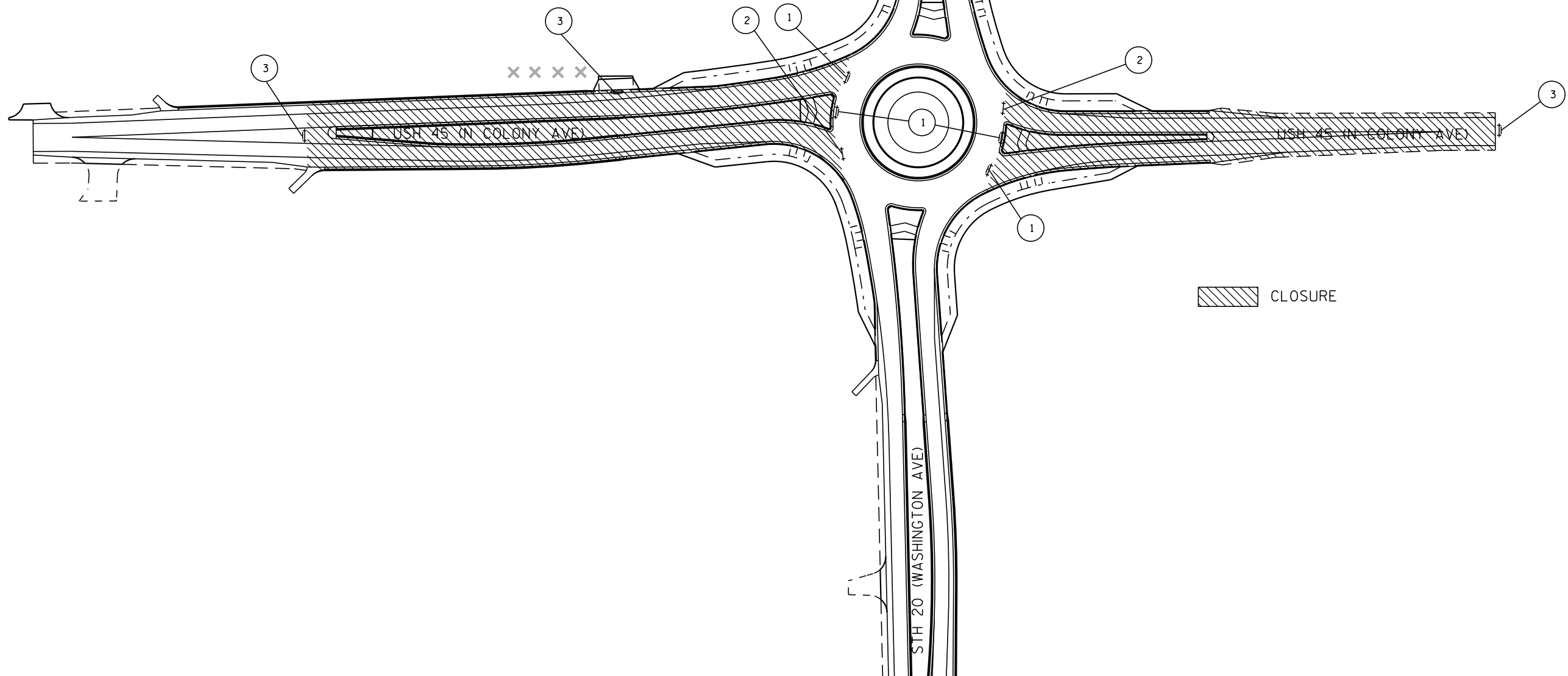
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2

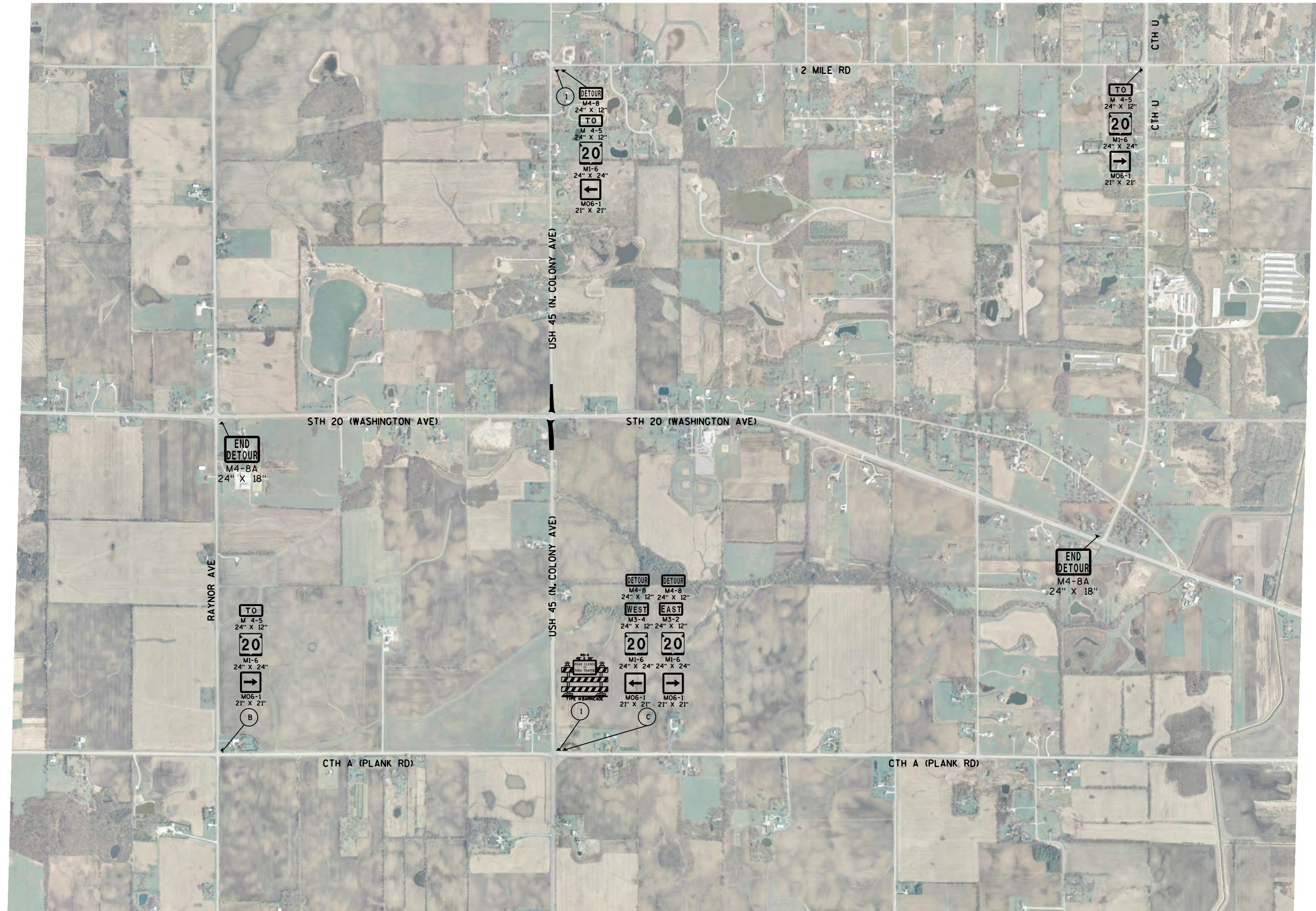


3



SHEET 13 OF 16

RACINE COUNTY ROUNDABOUT AT USH 45 & STH 20 (WASHINGTON AVE)
1000-77-16



SHEET 14 OF 16

PROJECT NO:1000-77-16

HWY: USH 45

COUNTY: RACINE

DETOUR - STAGE 6

SHEET

E

FILE NAME : N:\PDS\Projects\10007716\Plan.Set\027006_.d*.dgn

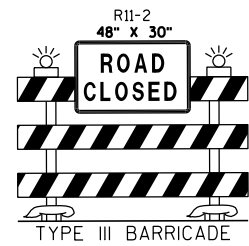
PLOT DATE : 22-JAN-2016 07:27

PLOT BY : dotcmv

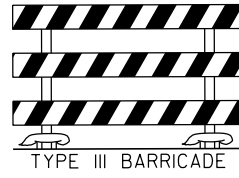
PLOT NAME :

PLOT SCALE : 1600:1

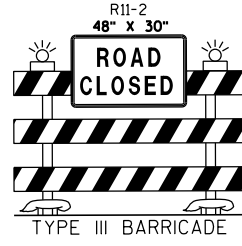
WISDOT/CADDs SHEET 42



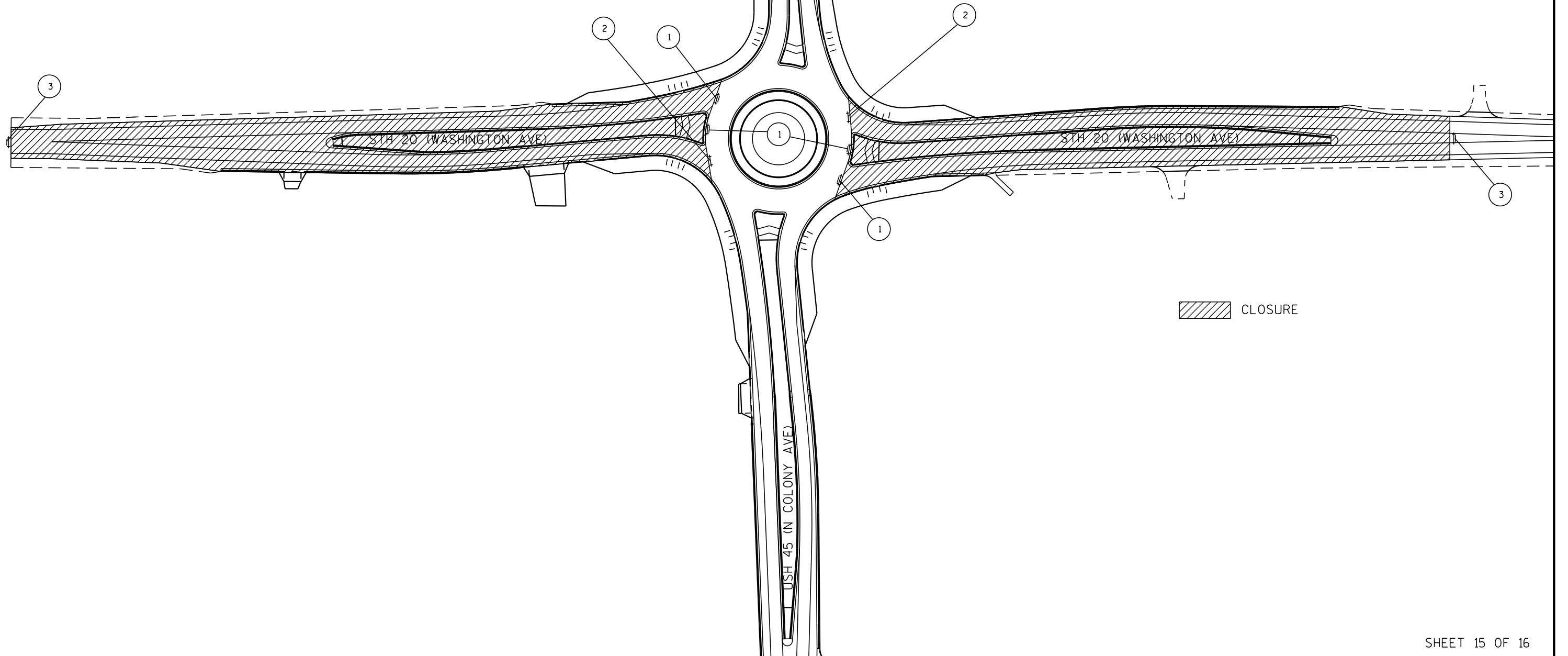
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2



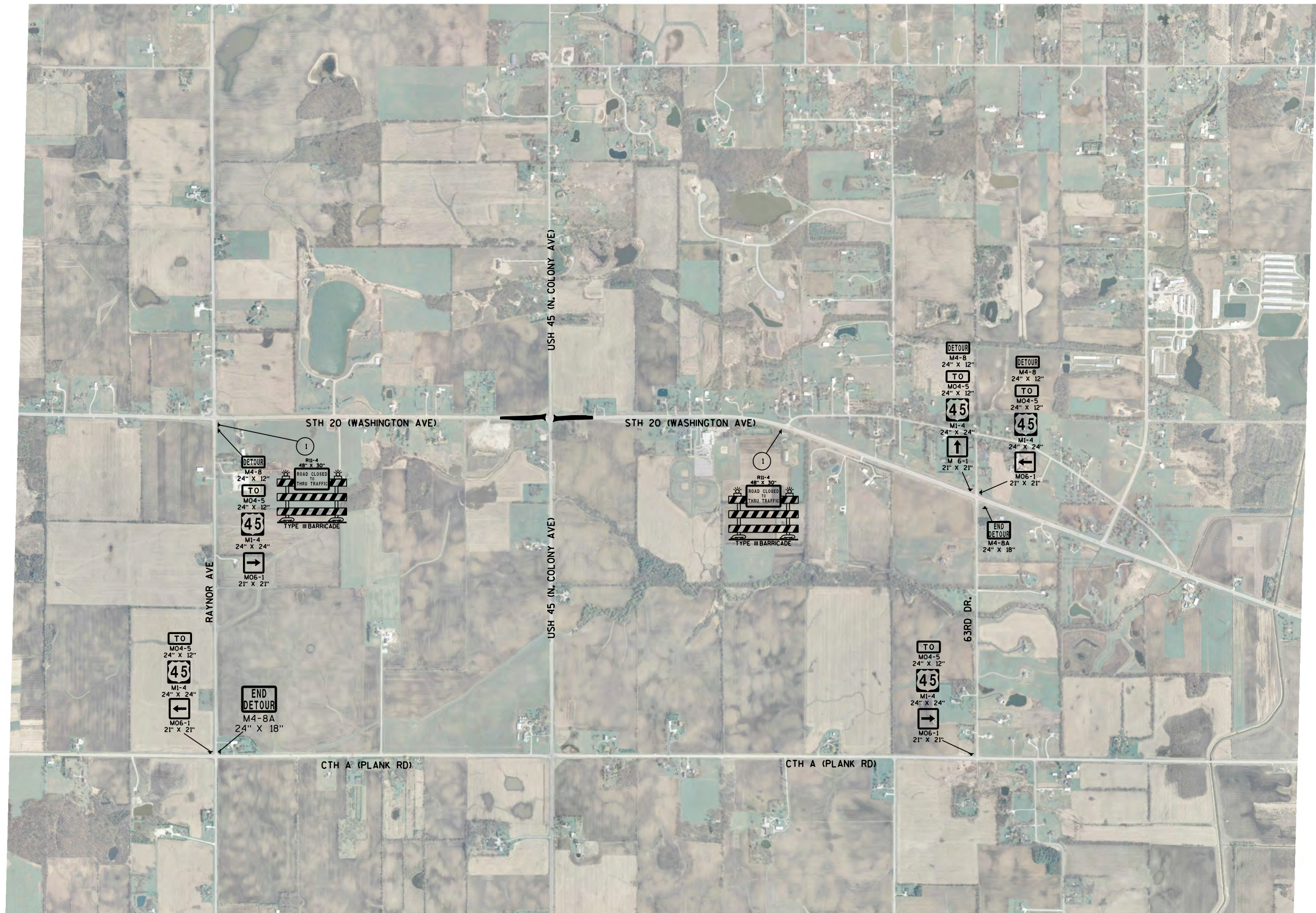
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CLOSURE

SHEET 15 OF 16

RACINE COUNTY ROUNDABOUT AT USH 45 & STH 20 (WASHINGTON AVE)
1000-77-16



SHEET 16 OF 16

PROJECT NO: 1000-77-16

HWY: USH 45

COUNTY: RACINE

DETOUR - STAGE 7

SHEET

E

FILE NAME : N:\PDS\Projects\10007716\Plan.Set\027007.dwg

PLOT DATE : 22-JAN-2016 07:28

PLOT BY : dotcmv

PLOT NAME :

PLOT SCALE : 1600:1

WISDOT/CADDs SHEET 42

DATE 22MAR16		E S T I M A T E O F Q U A N T I T I E S				
LINE					1000-77-16	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTI TY	
0010	619. 1000	Mobil i zati on	EACH	1. 000	1. 000	
0020	643. 0100	Traffi c Control (project) 01. 1000-77-16	EACH	1. 000	1. 000	
0030	646. 0106	Pavement Marki ng Epoxy 4-Inch	LF	40, 350. 000	40, 350. 000	
0040	646. 0126	Pavement Marki ng Epoxy 8-Inch	LF	13, 412. 000	13, 412. 000	
0050	646. 0156	Pavement Marki ng Epoxy 18-Inch	LF	216. 000	216. 000	
0060	646. 0600	Removi ng Pavement Markings	LF	1, 350. 000	1, 350. 000	
0070	647. 0110	Pavement Marki ng Rai l road Crossings	EACH	2. 000	2. 000	
0080	647. 0140	Epoxy Pavement Marki ng Arrows Epoxy Type 6R	EACH	3. 000	3. 000	
0090	647. 0156	Pavement Marki ng Arrows Epoxy Type 1	EACH	41. 000	41. 000	
0100	647. 0160	Pavement Marki ng Arrows Epoxy Type 2R	EACH	6. 000	6. 000	
0110	647. 0166	Pavement Marki ng Arrows Epoxy Type 2	EACH	221. 000	221. 000	
0120	647. 0170	Pavement Marki ng Arrows Epoxy Type 3R	EACH	19. 000	19. 000	
0130	647. 0176	Pavement Marki ng Arrows Epoxy Type 3	EACH	64. 000	64. 000	
0140	647. 0186	Pavement Marki ng Arrows Epoxy Type 4	EACH	68. 000	68. 000	
0150	647. 0196	Pavement Marki ng Arrows Epoxy Type 5	EACH	17. 000	17. 000	
0160	647. 0256	Pavement Marki ng Symbols Epoxy	EACH	33. 000	33. 000	
0170	647. 0356	Pavement Marki ng Words Epoxy	EACH	176. 000	176. 000	
0180	647. 0456	Pavement Marki ng Curb Epoxy	LF	32. 000	32. 000	
0190	647. 0526	Pavement Marki ng Yiel d Li ne Symbol s	EACH	50. 000	50. 000	
0200	647. 0566	Epoxy 18-Inch Pavement Marki ng Stop Li ne Epoxy 18-Inch	LF	3, 594. 000	3, 594. 000	
0210	647. 0606	Pavement Marki ng Island Nose Epoxy	EACH	2. 000	2. 000	
0220	647. 0726	Pavement Marki ng Diagonal Epoxy 12-Inch	LF	2, 362. 000	2, 362. 000	
0230	647. 0746	Pavement Marki ng Diagonal Epoxy 24-Inch	LF	100. 000	100. 000	
0240	647. 0766	Pavement Marki ng Crosswal k Epoxy 6-Inch	LF	3, 200. 000	3, 200. 000	
0250	647. 0796	Pavement Marki ng Crosswal k Epoxy 24-Inch	LF	119. 000	119. 000	
0260	647. 0955	Removi ng Pavement Markings Arrows	EACH	3. 000	3. 000	
0270	647. 0965	Removi ng Pavement Markings Words	EACH	3. 000	3. 000	
0280	ASP. 1T0A	On-the-Job Trai ni ng Apprentice at \$5. 00/HR	HRS	100. 000	100. 000	
0290	ASP. 1T0G	On-the-Job Trai ning Graduate at \$5. 00/HR	HRS	100. 000	100. 000	
0300	SPV. 0060	Speci al 01. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTI C WORDS	EACH	8. 000	8. 000	
0310	SPV. 0090	Speci al 01. PAVEMENT MARKING REMOVI NG 18-INCH	LF	68. 000	68. 000	
0320	SPV. 0090	Speci al 02. PAVEMENT MARKING REMOVI NG 12-INCH	LF	20. 000	20. 000	
0330	SPV. 0090	Speci al 03. PAVEMENT MARKING REMOVI NG 8-INCH	LF	300. 000	300. 000	
0340	SPV. 0090	Speci al 04. PAVEMENT MARKING CONTRAST EPOXY 8-INCH	LF	60. 000	60. 000	
0350	SPV. 0090	Speci al 05. PAVEMENT MARKING CONTRAST EPOXY 4-INCH	LF	395. 000	395. 000	
0360	SPV. 0090	Speci al 06. PAVEMENT MARKING GROOVED CONTRAST PREFORMED PLASTI C TAPE 4"	LF	30. 000	30. 000	
0370	SPV. 0090	Speci al 07. PAVEMENT MARKING GROOVED CONTRAST PREFORMED PLASTI C TAPE 8"	LF	30. 000	30. 000	

SUMMARY (1 OF 2)

3

			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Special Pavement Marking - 2016			647.0156	647.0166	647.0176	647.0186	647.0196	647.0140	647.0256	647.0356	647.0356	647.0456	647.0606	647.0726	647.0766	646.0126	646.0156	647.0566	647.0526	646.0600
Var. Hwy (1000-77-16)			Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng
SE Region			Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Yield line	Epoxy	Epoxy	Removal
			Arrow	Arrow	Arrow	Arrow	Arrow	Arrow	Symbols	Word	Word	Curb	Island Nose	Diagonal	Cross Walk	Chan.		Stop Line	Yield symbol	
			Type 1	Type 2	Type 3	Type 4	Type 5	Type 6 R	(Diamonds)	(Only)	(Yield)			12-IN	6-IN	8- IN	18-IN	18-IN	18-IN	
SUMMARY:			EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	L.F.	EA.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	L.F.
ITEM #	SEGMENT SUMMARIES	MILES																		
1	IH43 (ROCK CO. LINE TO 600' OF USH 12 INTER.)	15.5		11		16				7					180					
2	IH43(N. of USH 12 TO .5 MI S. of WAUK CO. Line (NB ONLY))	14.4		4		3				4								60		
3	IH43(100' E. OF STH 83 INTER. TO IH894/ IH 43 INTER.)	15.7		12	5	2			2	12	5			250		3690	37	375		
4	IH 94 (68 ST INTER. TO 13TH ST. INTER.)	3.4		30	7	12			11	13					960			460		
5	IH 94(E. of STH 16 IINTER. TO ELM GROVE RD)	8.5	5	75	15	4	3		5	65					404			717		
6	USH12 (GENOA CITY TO STH 67)	19.4		2		14												94		
7	STH 145 (68TH ST TO SO. OF W. BRADLEY RD)	5.3		14		8				12					1006			382		
8	STH 31(STH 50 (75TH ST) TO STATE CO.LINE)	5.1		32	2					23					300			714		
Roundabout Section SUMMARIES																				
9	IH 43, SB RAMP ROUNABOUT AT MOORLAND	0.1	11	8	3			0		6	4			60		3829	11			
10	IH 43, NB RAMP ROUNABOUT AT MOORLAND	0.1	9	3	6			3		4	5			0		1325	44			
11	STH 20 AND USH 45	0.1	0	0	0			0		0	0			600		400	44			
12	STH 164 AND CTH Q	0.1	4	0	12						8					2560	60			
SUMMARIES																				
13 THRU 21	VARIES LOCATIONS	0.09	0	1	2	0	2		0	1	0	12	1	270	0	908	0	92	0	200
22 THRU 37	UNDISTRIBUTED QUANTITIES																			
	VARIES LOCATION TO BE DETERMINED	2.93	12	29	12	9	12	0	15	5	2	20	1	832	350	700	20	700	50	1150
FINAL QUANTITIES			41	221	64	68	17	3	33	152	24	32	2	2012	3200	13412	216	3594	50	1350
MILES 90.72																				

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SUMMARY (2 OF 2)

3

			19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Special Pavement Marking - 2016			647.0955	647.0746	646.0106	647.0170	647.0160	647.0110	647.0965	SPV.0090.01	SPV.0090.02	SPV.0090.03	SPV.0090.04	SPV.0090.05	SPV.0090.06	SPV.0090.07	647.0796	647.0726	SPV.0060.01
Var. Hwy (1000-77-16) SE Region			Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	P.M. Grooved	P.M. Grooved	Pav. Mrkng	Pav. Mrkng	P.M. Grooved
			Removing	Epoxy	4-INCH	Epoxy	Epoxy	Epoxy	Removing	Removing	Removing	Removing	Epoxy	Epoxy	Contrast Preform	Contrast Preform	Cross Walk	Epoxy	Prefromed
			Arrow	Diagonal	Edge Line	Arrow	Arrow	Railroad	Word	18 - IN	12 - IN	8 - IN	Contrast	Contrast	Plastic Tape	Plastic Tape	Epoxy	CHEVRONS	Thermoplastic
CONTINUE SUMMARY:			EA.	L.F.	L.F.	EA.	EA.	E.A.	E.A.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.
ITEM #	SEGMENT SUMMARIES	MILES																	
1	IH43 (ROCK CO. LINE TO 600' OF USH 12 INTER.)	15.5																	
2	IH43(N. of USH 12 TO .5 MI S. of WAUK CO. Line (NB ONLY))	14.4																	
3	IH43(100' E. OF STH 83 INTER. TO IH894/ IH 43 INTER.)	15.7			6940		4												
4	IH 94 (68 ST INTER. TO 13TH ST. INTER.)	3.4																	
5	IH 94(E. of STH 16 IINTER. TO ELM GROVE RD)	8.5																	
6	USH12 (GENOA CITY TO STH 67)	19.4																	
7	STH 145 (68TH ST TO SO. OF W. BRADLEY RD)	5.3																	
8	STH 31(STH 50 (75TH ST) TO STATE CO.LINE)	5.1																	
Roundabout Section SUMMARIES																			
9	IH 43, SB RAMP ROUNABOUT AT MOORLAND	0.1			8200	5	0										14	250	
10	IH 43, NB RAMP ROUNABOUT AT MOORLAND	0.1			8900	4	2										23	0	
11	STH 20 AND USH 45	0.1			8800	0	0										40	0	
12	STH 164 AND CTH Q	0.1			1900	8													
SUMMARIES																			
13 THRU 21	VARIES LOCATIONS	0.09	2	0	1595	0	0	0	1	20	0	0	0	0	0	0	0	0	0
22 THRU 37	UNDISTRIBUTED QUANTITIES	0																	
	VARIES LOCATION TO BE DETERMINED	2.93	1	100	4015	2	0	2	2	48	20	300	60	395	30	30	42	100	8
CONTINUE FINAL QUANTITIES			3	100	40350	19	6	2	3	68	20	300	60	395	30	30	119	350	8
MILES 90.72																			

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INFORMATION ONLY

Special Pavement Marking - 2016				647.0166	647.0186	647.0356	647.0766	647.0566
Var. Hwy (1000-77-16)				Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng
SE Region				Epoxy	Epoxy	Epoxy	Epoxy	Epoxy
SEGMENT # 1 (ITEM #1)				Arrow	Arrow	Word	Cross Walk	Stop Line
MILES	HWY	COUNTY	LOCATION	Type 2	Type 4	(Only)	6-IN	18-IN
				EA.	EA.	EA.	L.F.	L.F.
15.5	IH 43	WALW.	IH43 (ROCK CO. LINE TO 600' OF USH 12 INTER.)					
INTERCHANGE(S)								
USH 14 (N WALWORTH ST)								
Off ramp NB								
Approaching - on ramp NB								
Off ramp SB								
Approaching - on ramp SB								
CTH X								
Off ramp NB								
Approaching - on ramp NB				1	3			15
Off ramp SB								
Approaching - on ramp SB				2	3	1		15
STH 50, (E GENEVA ST.)								
Off ramp NB								
Approaching - on ramp NB				5	1	3	70	14
Off ramp SB								
Approaching - on ramp SB				3		3	110	60
STH 67, (S. LINCOLN)								
Off ramp NB								
Approaching - on ramp NB								
Off ramp SB								
Approaching - on ramp SB								
15.5	IH 43	WALW.	IH43 (ROCK CO. LINE TO 600' OF USH 12 INTER.)					
TOTAL				11	16	7	180	240

INFORMATION ONLY

Special Pavement Marking - 2016 Var. Hwy (1000-77-16) SE Region				647.0166	647.0186	647.0356	647.0566
SEGMENT # 2(ITEM #2)				Pav. Mrkng Epoxy Arrow Type 2 EA.	Pav. Mrkng Epoxy Arrow Type 4 EA.	Pav. Mrkng Epoxy Word (Only) EA.	Pav. Mrkng Epoxy Stop Line 18-IN L.F.
MILES	HWY	COUNTY	LOCATION				
14.4	IH 43	WALW.	IH43(N. of USH 12 TO .5 MI S. of WAUK CO. Line (NB ONLY))				
INTERCHANGE(S)							
STH 11,							
Off ramp NB Approaching - on ramp NB				15			
REST AREA							
Off ramp NB Approaching - on ramp NB				3			
BOWERS RD							
Off ramp NB Approaching - on ramp NB				2		2	15
STH 120, (STATE RD)							
Off ramp NB Approaching - on ramp NB				1		1	15
STH 20 (NORTH ST)							
Off ramp NB Approaching - on ramp NB				1		1	15
14.4	IH 43	WALW.	IH43(N. of USH 12 TO .5 MI S. of WAUK CO. Line (NB ONLY))				
TOTAL				4	3	4	60

INFORMATION ONLY

Special Pavement Marking - 2016 Var. Hwy (1000-77-16) SE Region				647.0166	647.0176	647.0186	647.0256	647.0356	647.0356	646.0156	647.0566	647.0160	646.0106	646.0126	647.0726
SEGMENT # 3 (ITEM #3)				Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng
MILES	HWY	CO.	LOCATION	Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Symbols (Diamonds)	Epoxy Word (Only)	Epoxy Word (Yield)	Yield line	Epoxy Stop Line	Epoxy Arrow	4-INCH Edge Line	Epoxy Chan.	Epoxy Diagonal
Type 2 EA.	Type 3 EA.	Type 4 EA.		Type 2 EA.	Type 3 EA.	Type 4 EA.	(Diamonds) EA.	(Only) EA.	(Yield) EA.	18-IN L.F.	18-IN L.F.	Type 2R EA.	Lane Line L.F.	8- IN L.F.	12-IN L.F.
15.7	IH 43	WALW.	IH43(100' E. OF STH 83 INTER. TO IH894/ IH 43 INTER.)												
INTERCHANGE(S)															
STH 164 (BIG BEND DR)															
			Off ramp NB	1	1	1					40				
			Approaching - on ramp NB	1				1			60				
			Off ramp SB	1	1	1					40				
			Approaching - on ramp SB	1				1			60				
CTH Y, (RACINE AVE)															
			Off ramp NB	2				4	2	17		2			
			Approaching - on ramp NB												
			Off ramp SB	4				4	3	20		2			
			Approaching - on ramp SB												
CTH O, (S. MOORLAND RD)															
			on 1 ramp NB		3			1			24		5890	3410	250
			Approaching - on 2 ramp NB								20		1050	280	
Note: Also see roundabout Detail															
			Approaching - on ramp SB												
SOUTH 124TH ST.															
			Off ramp NB	2				1			44				
			Approaching - on ramp SB												
STH 100 (S. 108TH ST.)															
			Approaching - on ramp NB				2				70				
			Off ramp SB								17				
15.7	IH 43	WALW.	IH43(100' E. OF STH 83 INTER. TO IH894/ IH 43 INTER.)												
TOTAL				12	5	2	2	12	5	37	375	4	6940	3690	250

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INFORMATION ONLY				647.0166	647.0176	647.0186	647.0256	647.0356	647.0766	647.0566
Special Pavement Marking - 2016				Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng
Var. Hwy (1000-77-16)				Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy
SE Region				Arrow	Arrow	Arrow	Symbols	Word	Cross Walk	Stop Line
SEGMENT # 4 (ITEM #4)				Type 2	Type 3	Type 4	(Diamonds)	(Only)	6-IN	18-IN
MILES	HWY	COUNTY	LOCATION	EA.	EA.	EA.	EA.	EA.	L.F.	L.F.
3.4	IH 94	MILW.	IH 94 (68 ST INTER. TO 13TH ST. INTER.)							
			INTERCHANGE(S)							
			S HAWLEY RD							
			Off ramp WB	2		1				
			Approaching - on ramp WB	1			4	1	178	56
			Off ramp EB	2		2		2	100	31
			Approaching - on ramp EB	2			2	2		24
			N. GENERAL MICHEL BLVD(PARKWAY DR)							
			Off ramp EB	2	2	1		1		22
			Approaching - on ramp EB	2	1		2			24
			Off ramp WB	4	1	1				48
			Approaching - on ramp WB	1				1		19
			35TH ST.							
			Off ramp EB	2	2	1			105	25
			Approaching - on ramp EB	2				1	145	20
			Off ramp WB	2		3				16
			Approaching - on ramp WB	2				1		40
			W ST. PAUL AVE							35
			Approaching - on ramp WB				3			
			n. 26th st.							
			- off ramp EB	2	1	1				
			N. 25TH ST.							
			Off ramp WB	2		1		2	125	26
			Approaching - on ramp EB						200	36
			N. 13TH ST.							
			Off ramp EB	2		1		2	107	38
3.4	IH 94	MILW.	IH 94 (68 ST INTER. TO 13TH ST. INTER.)							
TOTAL				30	7	12	11	13	960	460

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INFORMATION ONLY

Special Pavement Marking - 2016 Var. Hwy (1000-77-16) SE Region SEGMENT # 5 (ITEM #5) MILES HWY COUNTY LOCATION				647.0156	647.0166	647.0176	647.0186	647.0196	647.0256	647.0356	647.0766	647.0566								
				Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng							
				Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Symbols (Diamonds)	Epoxy Word (Only)	Epoxy Cross Walk	Epoxy Stop Line								
				Type 1 EA.	Type 2 EA.	Type 3 EA.	Type 4 EA.	Type 5 EA.	(Diamonds) EA.	(Only) EA.	6-IN L.F.	18-IN L.F.								
8.5	IH 94	Wauk.	East of STH 16 INTER. TO ELM GROVE RD (UNDERPASS)																	
INTERCHANGE(S)																				
<div>STH 164. (PEWAUKEE ROAD)</div>																				
Off ramp WB													6	2			6		62	
Approaching - on ramp WB													6				6		84	
Off ramp EB													4	2			4			
Approaching - on ramp EB													8				6		108	
<div>CTH F. (REDFORD BLVD)</div>																				
Off ramp WB														6	2			6		48
Approaching - on ramp WB													2	3				5		60
Off ramp EB														3	2			3		36
Approaching - on ramp EB															3			3		70
<div>W BLUEMOUND ROAD</div>																				
collector on ramp WB																				16
on ramp WB																				24
(near termini) Off ramp EB																1				
<div>USH 18, E. MORELAND BLVD</div>																				
on ramp EB																				22
<div>CTH Y (S. BARKER RD)</div>																				
94 EB On ramp													2	9	1			5	6	50
NB (CTH Y) SIGNAL														3					3	24
94 WB Off ramp WB				1	10	3	3			4										
94 EB	Main Line																			
						3														
<div>CTH O. (S. MOORLAND RD)</div>																				
94 WB Off ramp																				
Off ramp heading SB											90									
Approaching - on ramp					4				4		144	24								
94 EB Off ramp					11				8		130	48								
on ramp(1) NB											40	24								
on ramp(2) NB					2				1			17								
8.5	IH 94	Wauk.	East of STH 16 INTER. TO ELM GROVE RD (UNDERPASS)																	
TOTAL				5	75	15	4	3	5	65	404	717								

INFORMATION ONLY

Special Pavement Marking - 2016 Var. Hwy (1000-77-16) SE Region SEGMENT # 6 (ITEM #6)				647.0166	647.0186	646.0156
				Pav. Mrkng	Pav. Mrkng	Pav. Mrkng
				Epoxy	Epoxy	Yield line
				Arrow	Arrow	
MILES	HWY	COUNTY	LOCATION	Type 2	Type 4	18-IN
19.4	USH 12	WALW.	GENOA CITY TO STH 67	EA.	EA.	L.F.
INTERCHANGE(S)						
STH 67 (N WISCONSIN ST)						
Off ramp NB				2	1	18
Approaching - on ramp NB						
Off ramp SB						
Approaching - on ramp SB						
STATE RD 120 / INTER. N						
Off ramp NB					2	15
Approaching - on ramp NB						
Off ramp SB					2	15
Approaching - on ramp SB						
PELL LAKE DR.						
Off ramp NB					3	15
Approaching - on ramp NB						
Off ramp SB					3	15
Approaching - on ramp SB						
CTH H (GENOA CITY)						
Off ramp NB						
Approaching - on ramp NB						
Off ramp SB					3	16
Approaching - on ramp SB						
19.4	USH 12	WALW.	GENOA CITY TO STH 67			
TOTALS				2	14	94

INFORMATION ONLY				647.0166	647.0186	647.0356	647.0766	647.0566
Special Pavement Marking - 2016				Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng
Var. Hwy (1000-77-16)				Epoxy	Epoxy	Epoxy	Epoxy	Epoxy
SE Region				Arrow	Arrow	Word	Cross Walk	Stop Line
SEGMENT # 7 (ITEM #7)				Type 2	Type 4	(Only)	6-IN	18-IN
MILES	HWY	COUNTY	LOCATION	EA.	EA.	EA.	L.F.	L.F.
5.3	STH 145	MILW.	68TH STH TO SO. OF W BRADLEY RD					
			INTERCHANGE(S)					
			IH 41 / USH 45 INTERCHANGE AT 124TH ST.					
			Off ramp NB					
			Approaching - on ramp NB					
			FDL ave &124th inter.Signal	2		2	180	104
			FDL ave LEFT TURN on to 124th					
			Approaching					
			- on ramp SB	2		1		
			& Left turn					
			IH 41 / USH 45 INTERCHANGE AT 124TH ST.					
			Off ramp SB	2		2		32
			FOND DU LAC & STH 145					
			Intersection:			1		
			WB STH 145	1				
			Drive way					
			EB STH 145	1		1		
			FDL Ave					40
			STH 145 (OFF RAMP) AT W. PARK PL.					
			Off ramp WB	1	1			40
			STH 145 AT 107TH ST. (WB OFF RAMP)					
			Off ramp		2			30
			FOND DU LAC (ON/OFF RAMPS) To STH 145					
			Off ramp EB		1			20
			on ramp EB					
			STH 145 AT W. LEON TERRACE (ON/OFF RAMPS)					
			Off ramp WB		1			
			FDL (ON/OFF RAMPS) INCL 91ST AT STH 145					
			Off ramp WB		1			20
			STH 145 AT W SILVER SPRING DR INTER.					
			On ramp WB				110	
			Off ramp WB				36	
			Off ramp EB				80	
			STH 145 AT W FDL AVE & STH 181(N. 76 TH ST)					
			Off ramp EB		1		80	25
			on ramp EB				50	
			Off ramp WB				70	
			on ramp WB				70	
			FDL Ave E. of W GRANTOSA DR					
			Off ramp EB		1		80	25
			W. FDL Ave and STH 145 Fwy (split)					
			Off ramp WB	4		4		24
			STH 145 Fwy @Signal (EB)					22
			STH 145 AT 68TH ST (west direction only)					
			Main line, EB at Signal	1		1	60	
			Main line, WB at Signal				190	
5.3	STH 145	MILW.	68TH STH TO SO. OF W BRADLEY RD					
Totals =				14	8	12	1006	382
SHEET 9 OF 12								

INFORMATION ONLY

Special Pavement Marking - 2016 Var. Hwy (1000-77-16) SE Region				647.0166	647.0176	647.0356	647.0766	647.0566
				Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng
				Epoxy	Epoxy	Epoxy	Epoxy	Epoxy
				Arrow	Arrow	Word	Cross Walk	Stop Line
SEGMENT # 8 (1 OF 2)(ITEM #8)				Type 2	Type 3	(Only)	6-IN	18-IN
MILES	HWY	COUNTY	LOCATION	EA.	EA.	EA.	L.F.	L.F.
5.1	STH 31	KENOSHA	STH 50 (75TH ST) TO STATE CO. LINE					
INTERSECTION(S)								
STH 50 AT STH 31(HEADING SOUTH)								
STH 31, MAIN LINE (SB & NB - SOUTHWARD ONLY) (NO NEW MARKINGS FOR STH 50) APPROACHING MAIN LINE				6		4	300	60
STH 31 AT 76TH ST								
STH 31, MAIN LINE (NB & SB) WB (ONLY) SIDE ROAD APPROACHING MAIN LINE				4		2		30
STH 31 AT 78TH ST								
STH 31, MAIN LINE (NB & SB) EB (ONLY) SIDE ROAD APPROACHING MAIN LINE				1	1	1		25
STH 31 AT 79TH ST								
STH 31, MAIN LINE (NB & SB) EB (ONLY) SIDE ROAD APPROACHING MAIN LINE								20
STH 31, MAIN LINE (NB & SB) TURN MEDIAN								
STH 31, MAIN LINE (NB & SB) TURN MEDIAN								
OMIT RAIL ROAD MARKINGS								
STH 31 AT BAIN STATION RD								
STH 31, MAIN LINE (NB & SB) SIDE ROADS APPROACHING MAIN LINE								25
STH 31 AT BENTZ. (INTERSECTION)								
STH 31, MAIN LINE (NB & SB) WB (ONLY) SIDE ROAD APPROACHING MAIN LINE				2		2		33 35
STH 31	KENOSHA		STH 50 (75TH ST) TO STATE CO. LINE					
SUBTOTAL =				13	1	9	300	228

Special Pavement Marking - 2016 Var. Hwy (1000-77-16) SE Region				647.0166	647.0176	647.0356	647.0766	647.0566
				Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng
				Epoxy	Epoxy	Epoxy	Epoxy	Epoxy
				Arrow	Arrow	Word	Cross Walk	Stop Line
SEGMENT # 8 (2 OF 2)(ITEM #8)				Type 2	Type 3	(Only)	6-IN	18-IN
MILES	HWY	COUNTY	LOCATION	EA.	EA.	EA.	L.F.	L.F.
5.1	STH 31	KENOSHA	STH 50 (75TH ST) TO STATE CO. LINE					
INTERSECTION(S)								
STH 31, MAIN LINE (NB) TURN MEDIAN								
STH 31, MAIN LINE (NB) TURN MEDIAN								
STH 31 AT 95TH ST. (INTERSECTION)								
STH 31, MAIN LINE (NB & SB) SIDE ROADS APPROACHING MAIN LINE				3		3		110 60
STH 31 AT 99TH ST. (INTERSECTION)								
STH 31, MAIN LINE (NB & SB) SIDE ROADS APPROACHING MAIN LINE								25
STH 31, MAIN LINE (NB) TURN MEDIAN								
STH 31 AT STH 165 (104TH ST) INTERSECTION								
STH 31, MAIN LINE (NB & SB) SIDE ROADS APPROACHING MAIN LINE				6 7		4 4		72 84
STH 31 AT 108TH ST								
STH 31, MAIN LINE (NB & SB) WB (ONLY) SIDE ROAD APPROACHING MAIN LINE								35
STH 31, MAIN LINE (NB) TURN MEDIAN								
STH 31 AT CTH ML								
STH 31, MAIN LINE (NB & SB) (NO NEW MARKINGS FOR STH 131) APPROACHING MAIN LINE				1	1	1		70
STH 31 AT 123RD ST								
STH 31, MAIN LINE (NB & SB) (NO NEW MARKINGS FOR STH 131) APPROACHING MAIN LINE								30
STH 31, MAIN LINE (NB) TURN MEDIAN								
STH 31 AT STATE CO. LINE (STH 131)								
STH 31, MAIN LINE (NB & SB), NORTHWARD ONLY (NO NEW MARKINGS FOR STH 131) APPROACHING MAIN LINE				2		2		
STH 31	KENOSHA		STH 50 (75TH ST) TO STATE CO. LINE					
FINAL TOTAL =				32	2	23	300	714

INFORMATION ONLY																													
Special Pavement Marking - 2016 Var. Hwy (1000-77-16)				647.0156	647.0166	647.0176	647.0140	647.0356	647.0356	647.0726	646.0126	647.0526	646.0106	647.0170	647.0160	647.0796	646.0726												
				Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng										
SE Region				Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Word	Epoxy Word	Epoxy Diagonal	Epoxy Chan.	Yield line	Yield line	4-INCH Edge Line	Epoxy Arrow	Epoxy Arrow	Cross Walk Epoxy	Epoxy CHEVRONS											
MILES	HWY	COUNTY	LOCATION	Type 1 EA.	Type 2 EA.	Type 3 EA.	Type 6R EA.	(Only) EA.	(Yield) EA.	12-IN EA.	8- IN EA.	18-IN EA.	Lane Line EA.	Type 3R EA.	Type 2R EA.	24-IN EA.	12-IN EA.												
0.1	IH 43	WAUK.	IH 43, SB RAMP ROUNABOUT AT MOORLAND																										
ROUNDABOUT LEGS																													
Note: 4" Quantities incl. Main line, "edge & lane line".																													
		1 IH 43 SB OFF RAMP	6															1		4	2		1244		2040	3		14	125
		2 NORTH (CTH O)	3															1	3	1			1370		1200				125
		3 ROUNABOUT CIRCLE AREA																											
		4 IH 43 SB ON RAMP	2						60		825		1000																
		5 SOUTH (CTH O)						1	2		150		2360																
											240	11	1600	2															
0.1	IH 43	WAUK.	IH 43, SB RAMP ROUNABOUT AT MOORLAND	11	8	3	0	6	4	60	3829	11	8200	5	0	14	250												

Special Pavement Marking - 2016 Var. Hwy (1000-77-16)				647.0156	647.0166	647.0176	647.0140	647.0356	647.0356	647.0726	646.0126	647.0526	646.0106	647.0170	647.0160	647.0796	646.0726
SE Region				Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng
Roundabout -SECTION # 10 (ITEM #10)				Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Word	Epoxy Word	Epoxy Diagonal	Epoxy Chan.	Yield line	4-INCH Edge Line	Epoxy Arrow	Epoxy Arrow	Cross Walk Epoxy	Epoxy CHEVRONS
MILES	HWY	COUNTY	LOCATION	Type 1 EA.	Type 2 E.A.	Type 3 E.A.	Type 6R E.A.	(Only) E.A.	(Yield) E.A.	12-IN L.F.	8- IN L.F.	18-IN E.A.	Lane Line L.F.	Type 3R E.A.	Type 2R E.A.	24-IN L.F.	12-IN L.F.
0.1	IH 43	WAUK.	IH 43, NB RAMP ROUNABOUT AT MOORLAND														
ROUNDABOUT LEGS																	
Note: 4" Quantities incl. Main line, "edge & lane line".																	
			1 IH 43 NB OFF RAMP				3		2		250	11	2600		2		40
			2 N toward Rockridge		1			1	1		100	8	200				
			3 ROUNABOUT CIRCLE AREA	2	2	3		1			235		1000				
			4 NORTH (CTH O)	4				2			340	10	2000	4		8	
			5 SOUTH (CTH O)	3		3			2		400	15	3100			15	
0.1	IH 43	WAUK.	IH 43, NB RAMP ROUNABOUT AT MOORLAND	9	3	6	3	4	5	0	1325	44	8900	4	2	23	

Special Pavement Marking - 2016 Var. Hwy (1000-77-16)				647.0156	647.0166	647.0176	647.0140	647.0356	647.0356	647.0726	646.0126	647.0526	646.0106	647.0170	647.0160	647.0796	646.0726
SE Region				Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng
Roundabout -SECTION # 11 (ITEM #11)				Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Word	Epoxy Word	Epoxy Diagonal	Epoxy Chan.	Yield line	4-INCH Edge Line	Epoxy Arrow	Epoxy Arrow	Cross Walk Epoxy	Epoxy CHEVRONS
MILES	HWY	COUNTY	LOCATION	Type 1 EA.	Type 2 E.A.	Type 3 E.A.	Type 6R E.A.	(Only) E.A.	(Yield) E.A.	12-IN L.F.	8- IN L.F.	18-IN E.A.	Lane Line L.F.	Type 3R E.A.	Type 2R E.A.	24-IN L.F.	12-IN L.F.
0.1	USH 45	RACINE	STH 20 AND USH 45														
ROUNDABOUT LEGS																	
			1 NORTH BOUND- 400'							150			1400			10	85
			2 EASTBOUND-800'							150			2600			10	85
			3 ROUNABOUT CIRCLE AREA								400	44					
			4 SOUTH BOUND-700'							150			2400			10	85
			5 WESTBOUND-700'							150			2400			10	85
0.1	USH 45	RACINE	STH 20 AND USH 45	0	0	0	0	0	0	600	400	44	8800	0	0	40	

Special Pavement Marking - 2016 Var. Hwy (1000-77-16)				647.0156	647.0166	647.0176	647.0140	647.0356	647.0356	647.0726	646.0126	647.0526	646.0106	647.0170	647.0160	647.0796	646.0726
SE Region				Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng
Roundabout -SECTION # 12(ITEM #12)				Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Word	Epoxy Word	Epoxy Diagonal	Epoxy Chan.	Yield line	4-INCH Edge Line	Epoxy Arrow	Epoxy Arrow	Cross Walk Epoxy	Epoxy CHEVRONS
MILES	HWY	COUNTY	LOCATION	Type 1 EA.	Type 2 EA.	Type 3 EA.	Type 6R EA.	(Only) EA.	(Yield) EA.	12-IN EA.	8- IN EA.	18-IN EA.	Lane Line EA.	Type 3R EA.	Type 2R EA.	24-IN EA.	12-IN EA.
0.1	STH 164	WAUK.	STH 164 AND CTH Q														
ROUNDABOUT LEGS																	
			1 NORTH BOUND-950'			2			2		1265		1900	2			
			2 EASTBOUND-355'			2			2		160			2			
			3 ROUNABOUT CIRCLE AREA	4		4					300	60					
			4 SOUTH BOUND-800'			2			2		760			2			
			5 WESTBOUND-350'			2			2		75			2			
0.1	STH 164	WAUK.	STH 164 AND CTH Q	4	0	12	0	0	8	0	2560	60	1900	8	0	0	

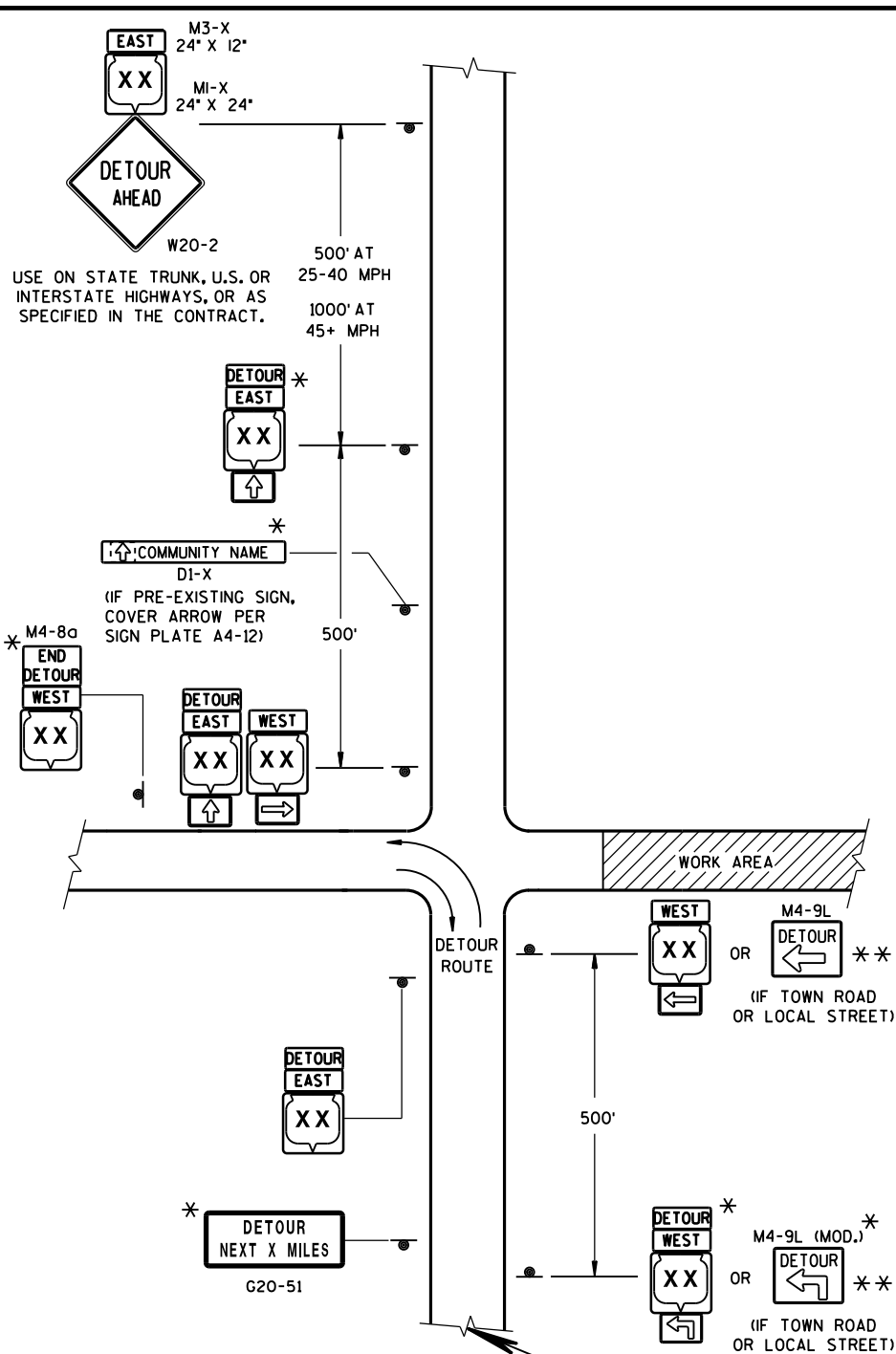
INFORMATION ONLY						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Special Pavement Marking - 2016						647.0156	647.0166	647.0176	647.0186	647.0196	647.0140	647.0256	647.0356	647.0356	647.0456	647.0606	647.0726	647.0766	646.0126	646.0156	647.0566	647.0526	646.0600
Var. Hwy (1000-77-16)						Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng
SE Region						Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Arrow	Epoxy Symbols (Diamonds)	Epoxy Word (Only)	Epoxy Word (Yield)	Epoxy Curb	Epoxy Island Nose	Epoxy Diagonal	Epoxy Cross Walk	Epoxy Chan.	Epoxy Yield line	Epoxy Stop Line	Epoxy Yield symbol	Epoxy Removal
ITEM	MILES	HWY/Rdwy	COUNTY	SECTION VARIOUS LOCATION	Remark / Comment	Type 1 EA.	Type 2 EA.	Type 3 EA.	Type 4 EA.	Type 5 EA.	Type 6R EA.	(Diamonds) EA.	(Only) EA.	(Yield) EA.	L.F.	EA.	12-IN L.F.	6-IN L.F.	8- IN L.F.	18-IN L.F.	18-IN L.F.	18-IN L.F.	L.F.
13	0.01	CTH A	Racine	Inter.: CTH A and S. River Rd	Burlington Bypass @ CTH A (see detail S1) Special Marking removal & replacement			2															
14	0.01	STH 32	Racine	STH 32 (Douglas Ave) & Candle Ct.	Placing 2, Type 5 Arrows a 100' apart(min.) (see detail S2)					2													
15	0.01	IH 94	Milwaukee	W Park Hill Ave On ramp to I94 WB	Extend 8" gore marking to create a 12' lane width for the on ramp as shown in detail S3.														200				
16	0.01	USH 41/45	Washington	USH 41/45 NB, Off ramp to STH 167 (Lannon Rd)	Placing stagger stop bar as shown in detail S4														8		32		
17	0.01	STH 100	Milwaukee	STH 100(Brown Deer Rd) at STH 181 (76th St)	Replacing 4" E.L. & 8" chann. in median on STH100 at 76th st In both direction, markings,(detail S5)														380				
18	0.01	IH 43	Milwaukee	IH 43 NB, Off Ramp to EB STH 100(Brown Deer Rd)	Replacing 4" edge line and Skip markings on STH 100,EB off ramp , as shown in detail S6																		
19	0.01	USH 14	WALW.	USH 14 AND SIX CORNERS RD	Remove & replace stop bar, adding 12" diag. and 4" double yellow as shown on detail S7												50				60		
20	0.01	STH 50	WALW.	STH 50 & CTH F (TOWN OF DELAVAN)	Remove 4" and replace with double 4" adding 12" diag.,type 2 arrows & words as shown on S8		1						1				220		320				200
21	0.01	STH 31	Kenosha	STH 31(Green Bay Rd) & 35th ST.	Paint Island Nose (NB median) and Curb Yellow (5' beyond radius per SDD) as shown on detail S9										12	1							
	0.09				SUBTOTAL=	0	1	2	0	2	0	0	1	0	12	1	270	0	908	0	92		200
22- 37	2.93	VARIOUS HWY & RDWY	STATE WIDE	Throughout SE - Region (STATE WIDE)	TO BE DETERMINED BY OR BEFORE SEPTEMBER 30TH, 2016.	12	29	12	9	12	0	15	5	2	20	1	832	350	700	20	700	50	1150
	3.02				SUBTOTAL=	12	30	14	9	14	0	15	6	2	32	2	1102	350	1608	20	792	50	1350
					TOTAL =	12	30	14	9	14	0	15	6	2	32	2	1102	350	1608	20	792	50	1350

INFORMATION ONLY						19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Special Pavement Marking - 2016						647.0955	647.0746	646.0106	647.0170	647.0160	647.0110	647.0965	SPV.0090.01	SPV.0090.02	SPV.0090.03	SPV.0090.04	SPV.0090.05	SPV.0090.06	SPV.0090.07	647.0796	646.0726	SPV.0060.01
Var. Hwy (1000-77-16)						Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	Pav. Mrkng	P.M. Grooved	P.M. Grooved	Pav. Mrkng	Pav. Mrkng	P.M. Grooved
SE Region						Removing Arrow	Epoxy Diagonal	4-INCH Edge Line	Epoxy Arrow	Epoxy Arrow	Epoxy Railroad Crossings	Removing Word	Removing 18 - IN	Removing 12 - IN	Removing 8 - IN	Epoxy Contrast	Epoxy Contrast	Contrast Preform	Contrast Preform	Cross Walk	Epoxy CHEVRONS	Prefromed
ITEM	MILES	HWY/Rdwy	COUNTY	SECTION VARIOUS LOCATION	Remark / Comment	EA.	L.F.	L.F.	Type 3R EA.	Type 2R EA.	EA.	EA.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.
13	0.01	CTH A	Racine	Inter.: CTH A and S. River Rd	Burlington Bypass @ CTH A (see detail S1) Special Marking removal & replacement	2						1										
14	0.01	STH 32	Racine	STH 32 (Douglas Ave) & Candle Ct.	Placing 2, Type 5 Arrows a 100' apart(min.) (see detail S2)																	
15	0.01	IH 94	Milwaukee	W Park Hill Ave On ramp to I94 WB	Extend 8" gore marking to create a 12' lane width for the on ramp as shown in detail S3.																	
16	0.01	USH 41/45	Washington	USH 41/45 NB, Off ramp to STH 167 (Lannon Rd)	Placing stagger stop bar as shown in detail S4																	
17	0.01	STH 100	Milwaukee	STH 100(Brown Deer Rd) at STH 181 (76th St)	Replacing 4" E.L. & 8" chann. in median on STH100 at 76th st In both direction, markings,(detail S5)			360														
18	0.01	IH 43	Milwaukee	IH 43 NB, Off Ramp to EB STH 100(Brown Deer Rd)	Replacing 4" edge line and Skip markings on STH 100,EB off ramp , as shown in detail S6			325														
19	0.01	USH 14	WALW.	USH 14 AND SIX CORNERS RD	Remove & replace stop bar, adding 12" diag. and 4" double yellow as shown on detail S7			110				20										
20	0.01	STH 50	WALW.	STH 50 & CTH F (TOWN OF DELAVAN)	Remove 4" and replace with double 4" adding 12" diag.,type 2 arrows & words as shown on S8			800														
21	0.01	STH 31	Kenosha	STH 31(Green Bay Rd) & 35th ST.	Paint Island Nose (NB median) and Curb Yellow (5' beyond radius per SDD) as shown on detail S9																	
	0.09	VAR.	VAR.	VARIES LOCATIONS	SUBTOTAL=	2	0	1595	0	0	0	1	20	0	0	0	0	0	0	0	0	0
22- 37 (*)	2.93	VARIOUS HWY & RDWY	STATE WIDE	Throughout SE - Region (STATE WIDE)	TO BE DETERMINED BY OR BEFORE SEPTEMBER 30TH, 2016.	1	100	4015	2		2	2	48	20	300	60	395	30	30	42	100	8
	3.02				CONTINUE TOTAL =	3	100	5610	2	0	2	3	68	20	300	60	395	30	30	42	100	8

(*) NOTE: ITEMS # 22 - 37 ARE INCLUDED AS PART OF MOBILIZATION AND TRAFFIC CONTROL.

Standard Detail Drawing List

15C02-05C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C07-12A	PAVEMENT MARKING SYMBOLS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C07-12D	ROUNDABOUT ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C20-01	YIELD MARKING
15C31-01B	LANE DROP PAVEMENT MARKING
15C31-01C	PAVEMENT MARKING MAJOR SPLIT FREEWAY TO FREEWAY
15D16-03	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D22-02	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D37-01	TRAFFIC CONTROL, 2-LANE ROUNDABOUT



THIS DRAWING PROVIDES GENERAL GUIDANCE
ON TYPICAL DETOUR SIGN LAYOUT AND SPACING.
SEE PROJECT DETOUR SIGNING SHEETS FOR
SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

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

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. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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.

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

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

SIGN SIZES SHALL BE AS FOLLOWS:

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

M4-8 SHALL BE 24" X 12". (30" X 15" 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.)

M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)

M4-9 SHALL BE 30" X 24".

M4-8a SHALL BE 24" X 18".

G20-51 SHALL BE 60" X 24".

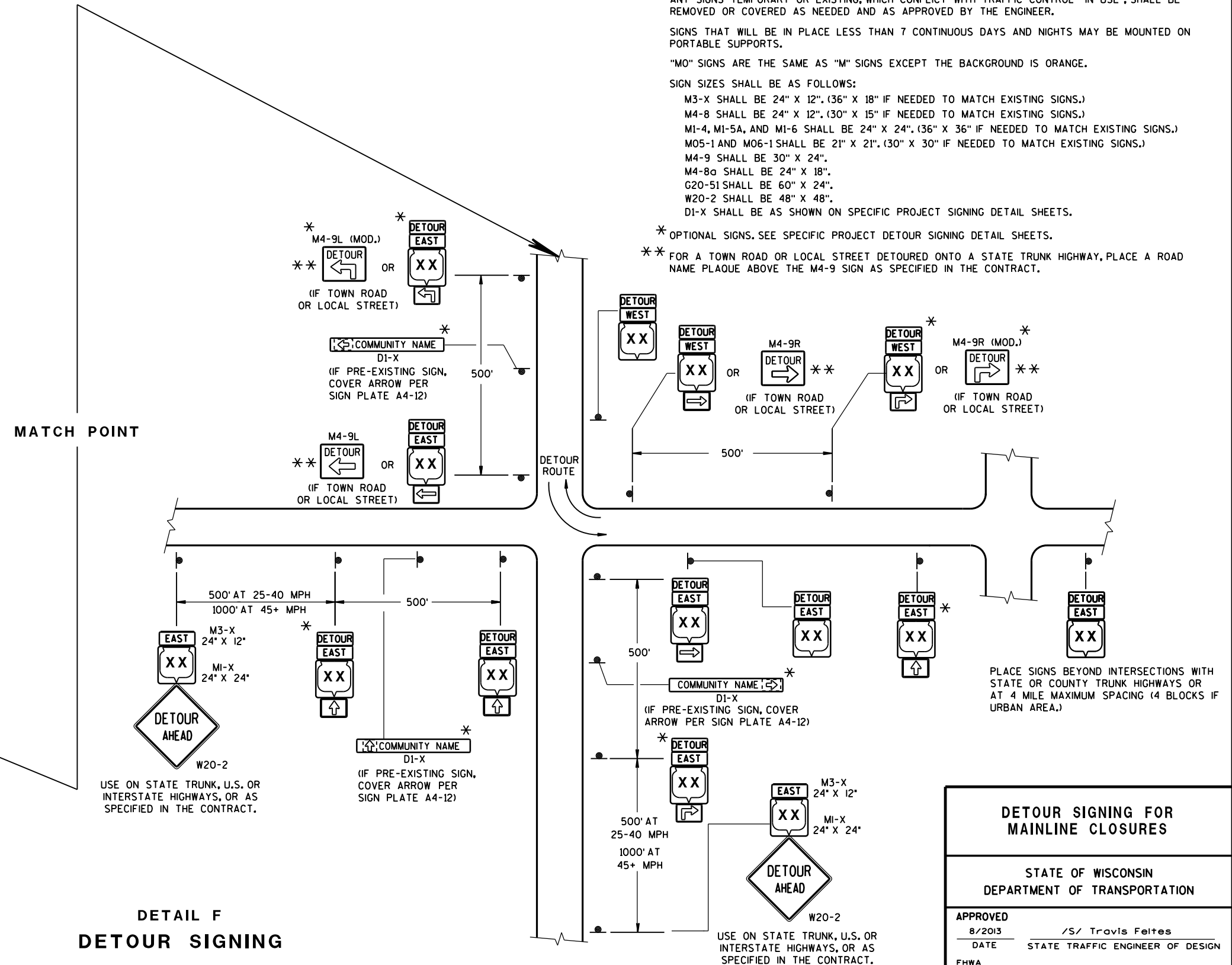
W20-2 SHALL BE 48" X 48".

D1-X SHALL BE AS SHOWN C

OPTIONAL SIGNS SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS

*** FOR A TOWN ROAD OR LOCAL STREET DETOURD ONTO A STATE TRUNK L

*** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.






LEGEND

 SIGN ON PERMANENT SUPPORT

 WORK AREA

DETOUR M4-8
EAST M3-X


 OR
 
 OR
 

M1-4 M1-5A M1-6


 OR
 
 OR
 

SEE SPECIFIC PROJECT DETOUR
SIGNING DETAIL SHEETS AND
DETAIL A OR B ON SDD 15C2-SHEET "a"

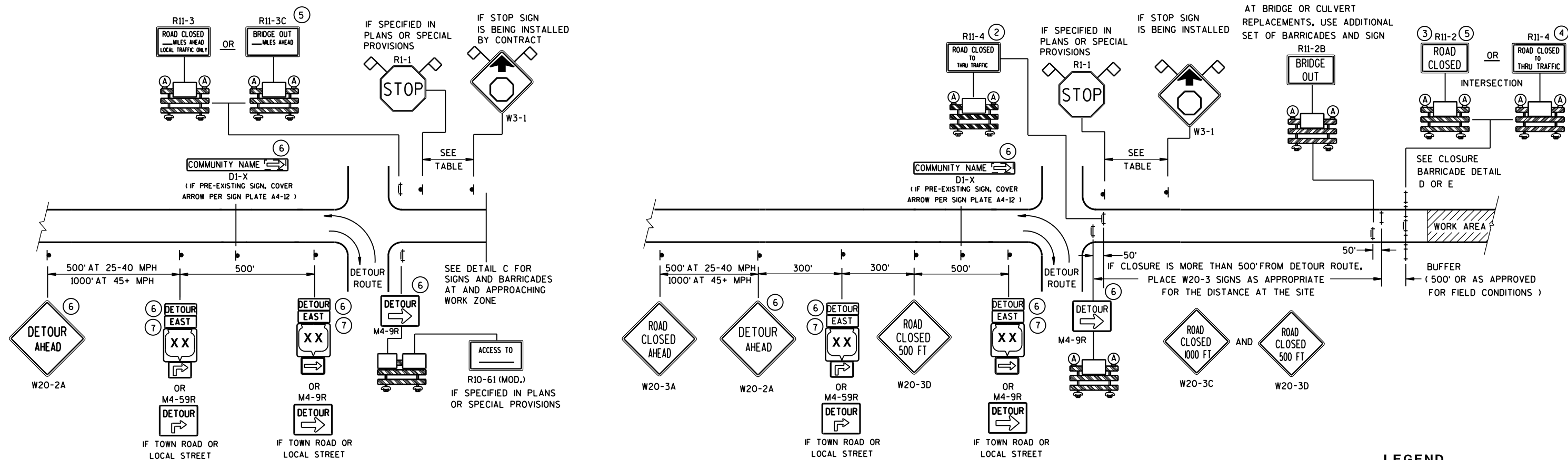
DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

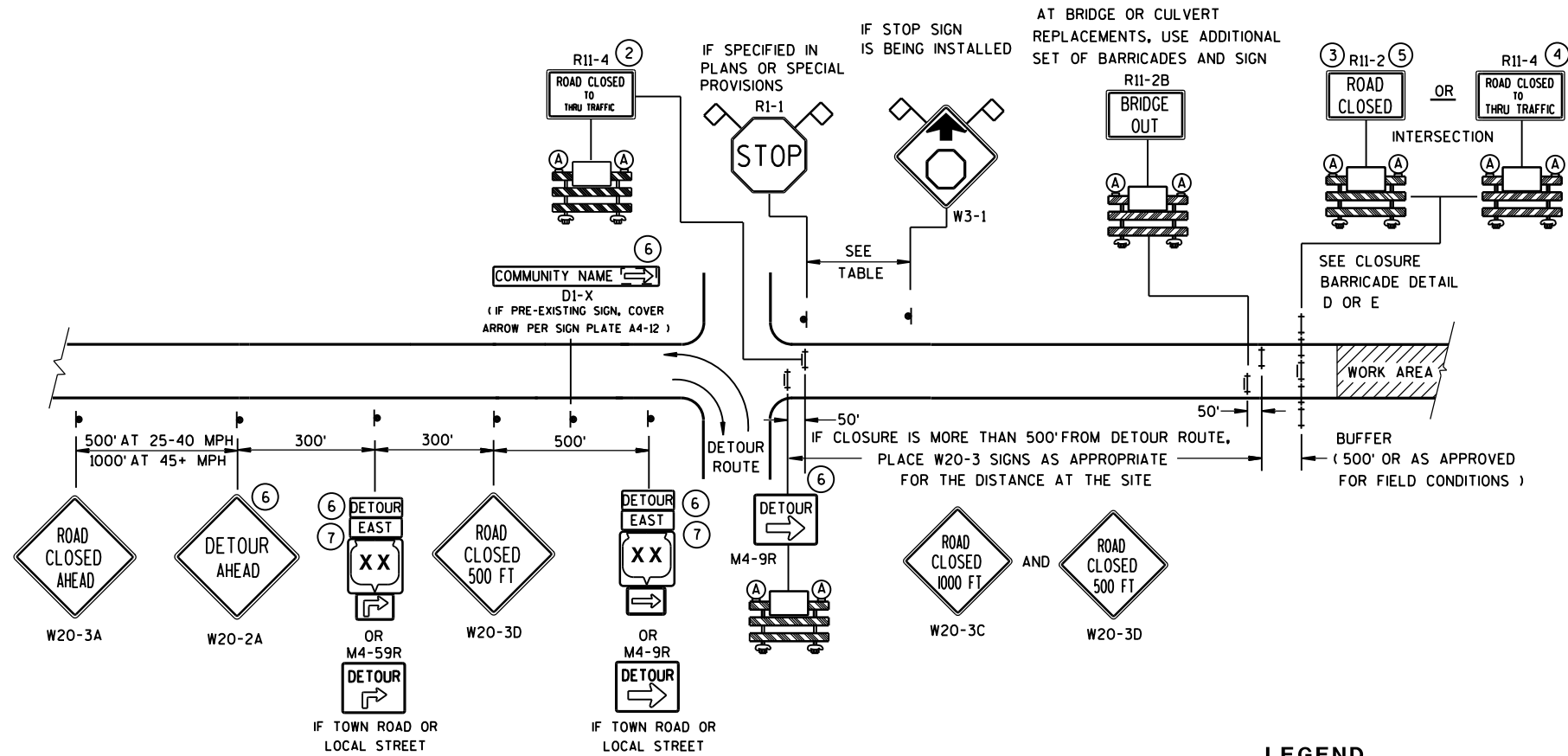
APPROVED
8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

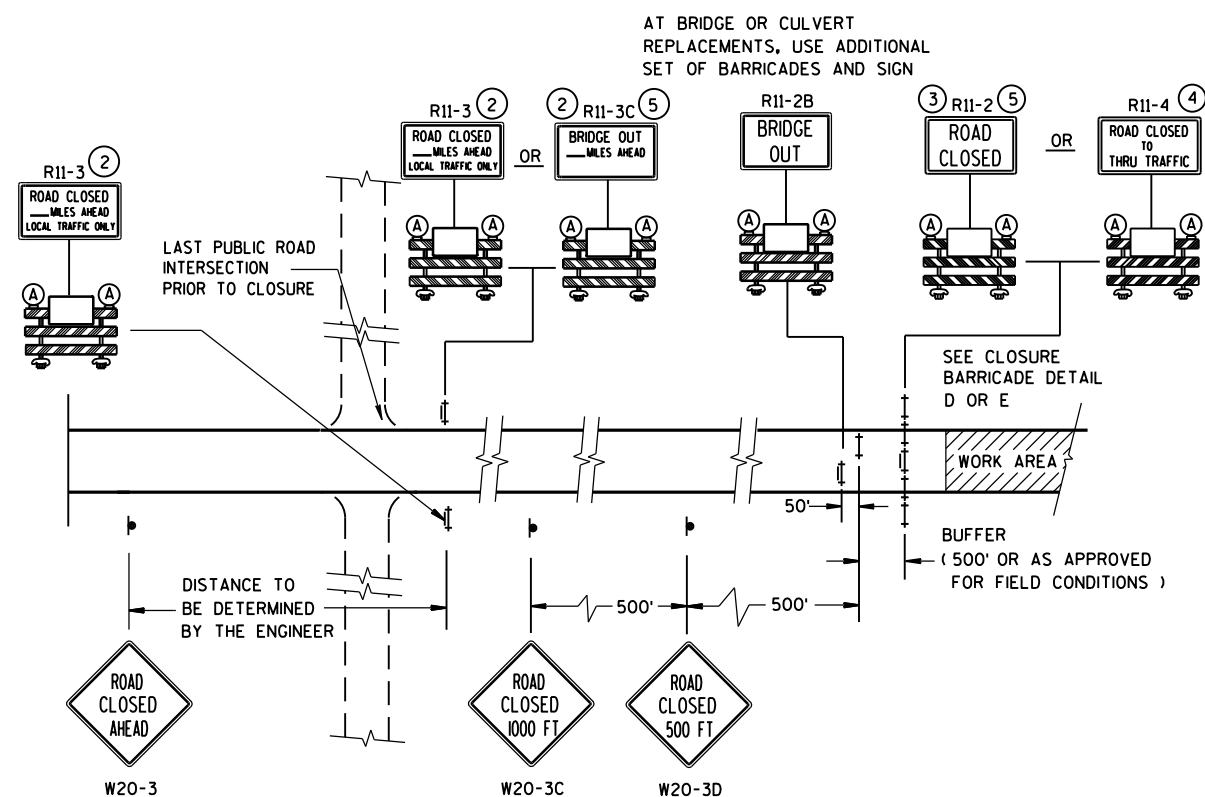
WORK ZONE GREATER THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B

MAINLINE CLOSURE WITH POSTED DETOUR














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



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

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

- ### LEGEND

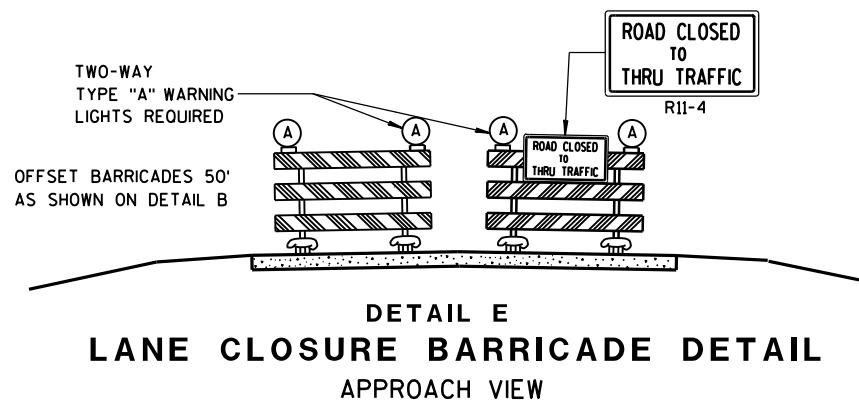
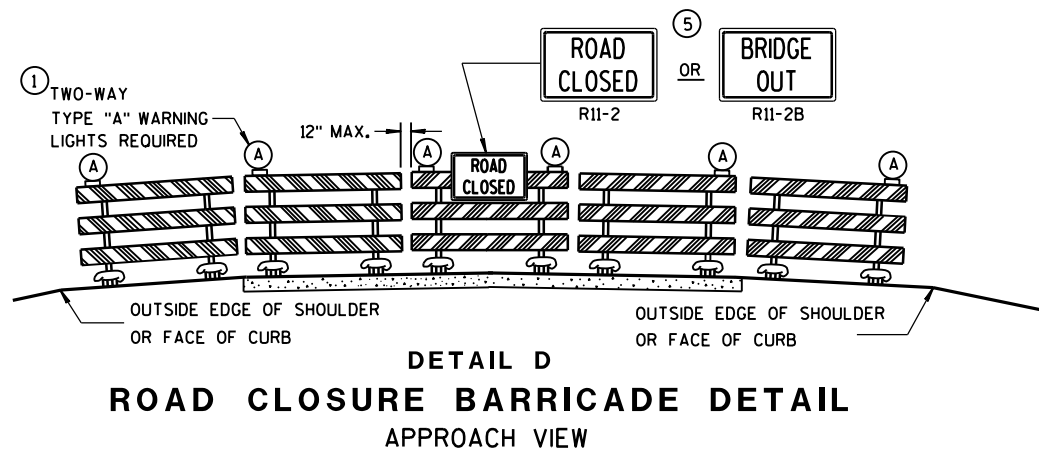
-  SIGN ON PERMANENT SUPPORT
 TYPE III BARRICADE
 TYPE III BARRICADE WITH ATTACHED SIGN
 TYPE "A" WARNING LIGHT (FLASHING)
 WORK AREA
 M4-8
 M3-X
 M1-4
OR
 M1-5A
OR
 M1-6
 M05-1
OR
 M06-1
 FLAGS, 16" X 16" MIN., (ORANGE)

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

Sept. 2015	/S/ Peter Amakobe Atepe
DATE	STATEWIDE WORK ZONE TRAFFIC
FHWA	SAFETY ENGINEER



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 BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

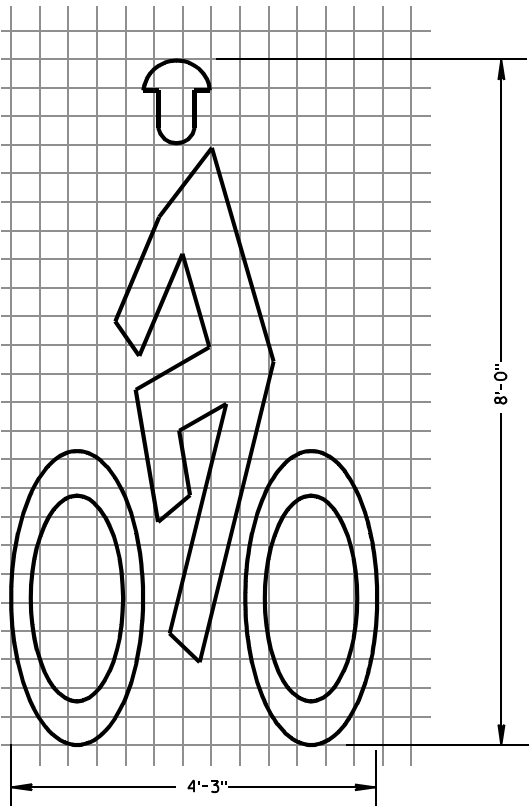
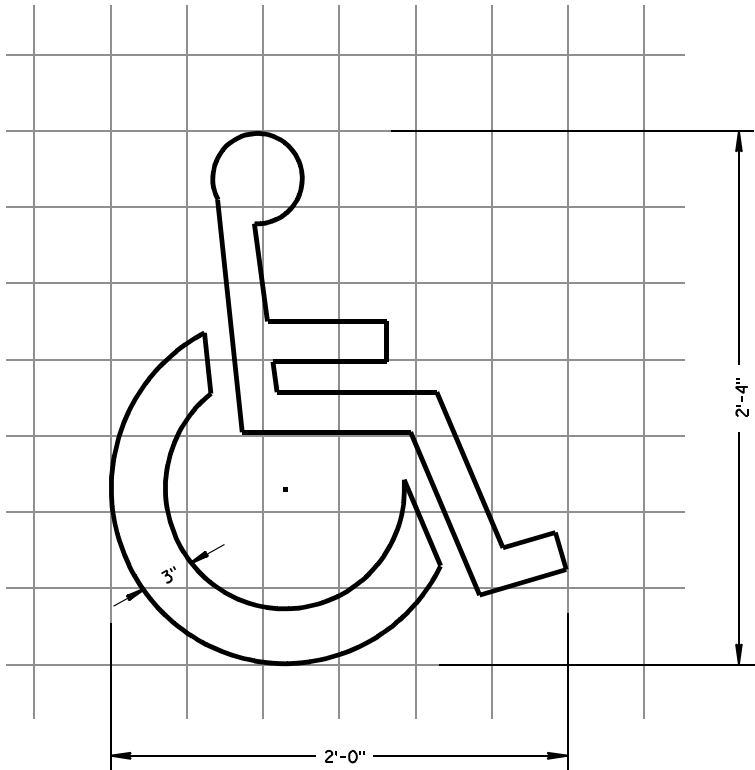
"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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

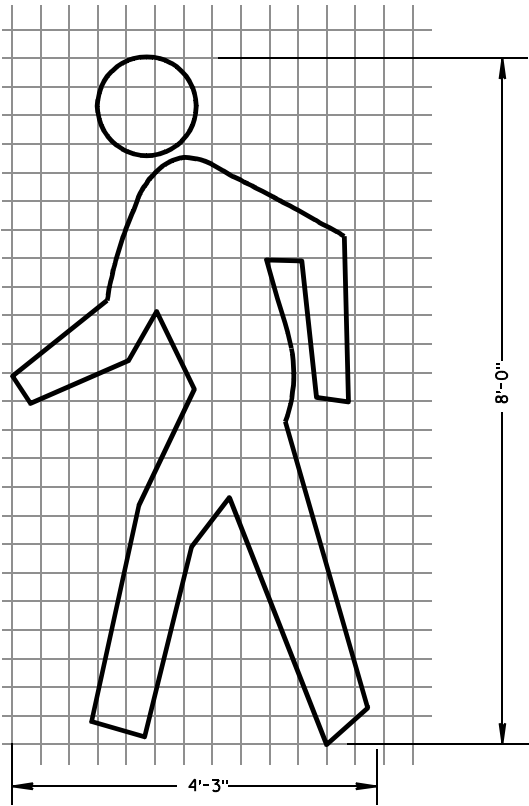
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 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 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 LANE 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.

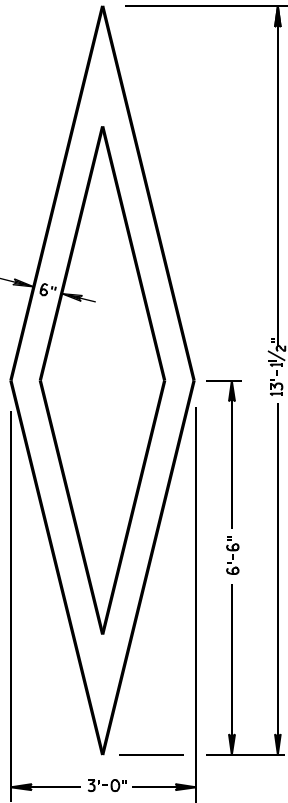
BARRICADES AND SIGNS FOR MAINLINE CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
Sept. 2015 DATE	/S/ Peter Amokobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	



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.

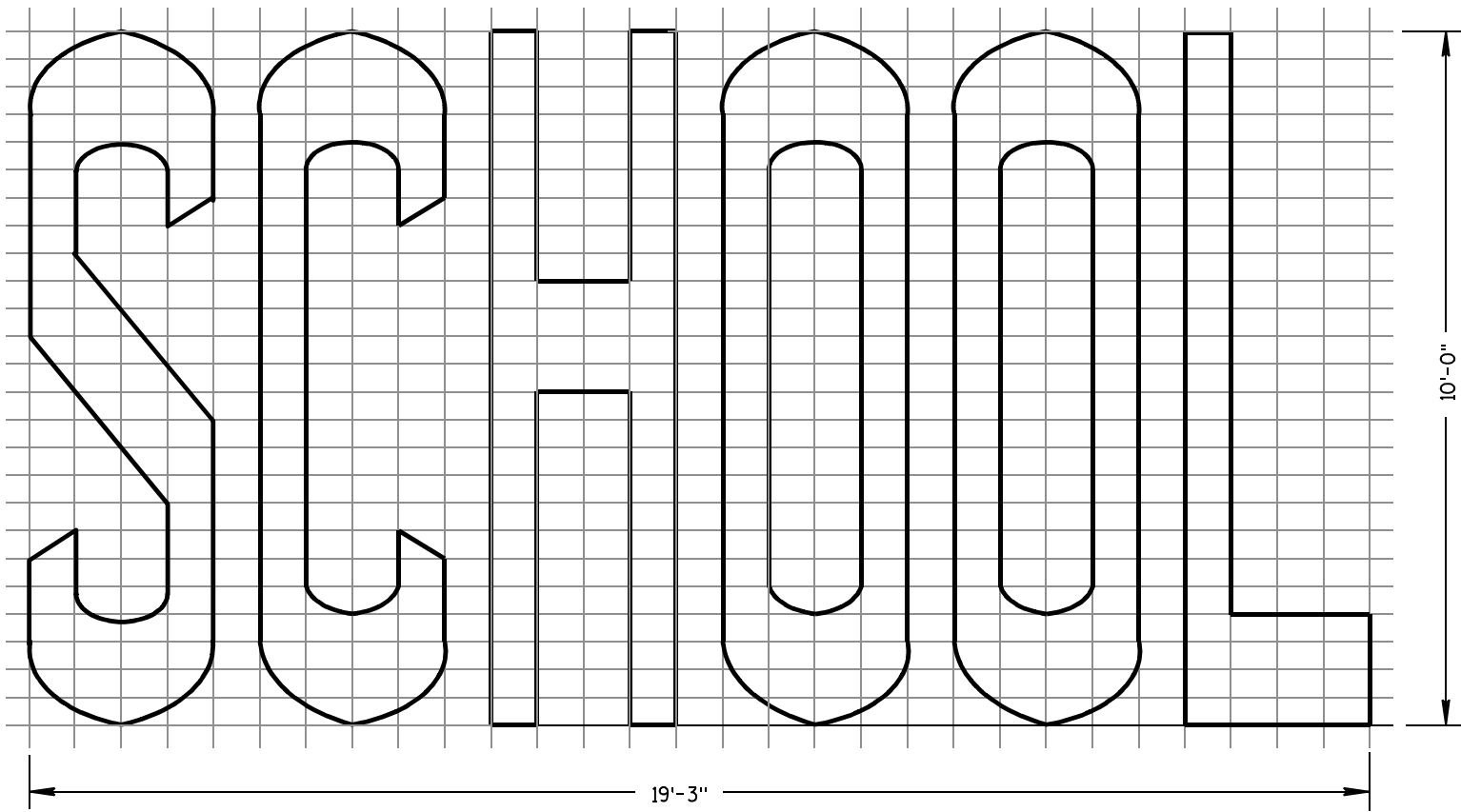
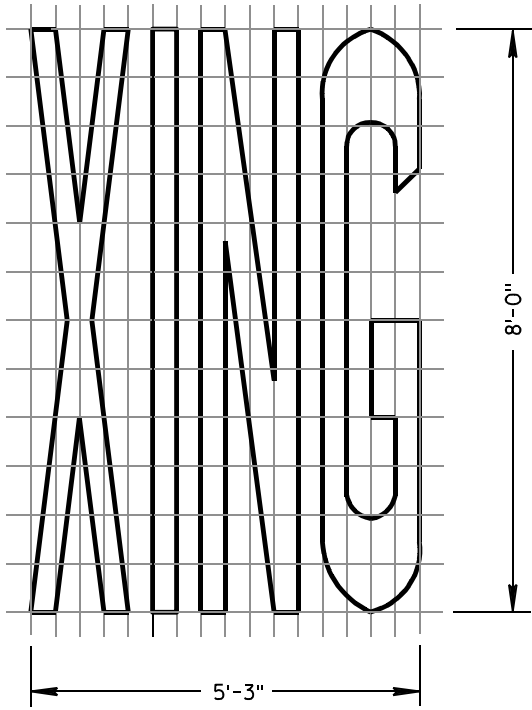
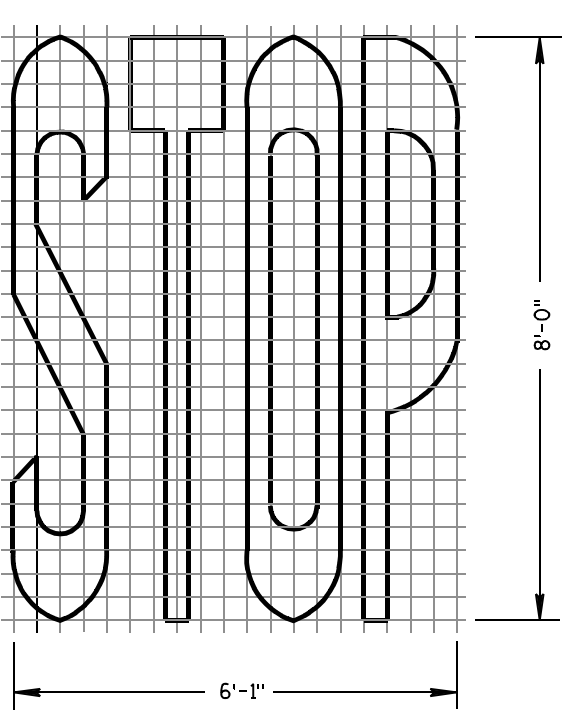
A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

PAVEMENT MARKING SYMBOLS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 7/1/11 DATE	/S/ Thomas N. Notbohm STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

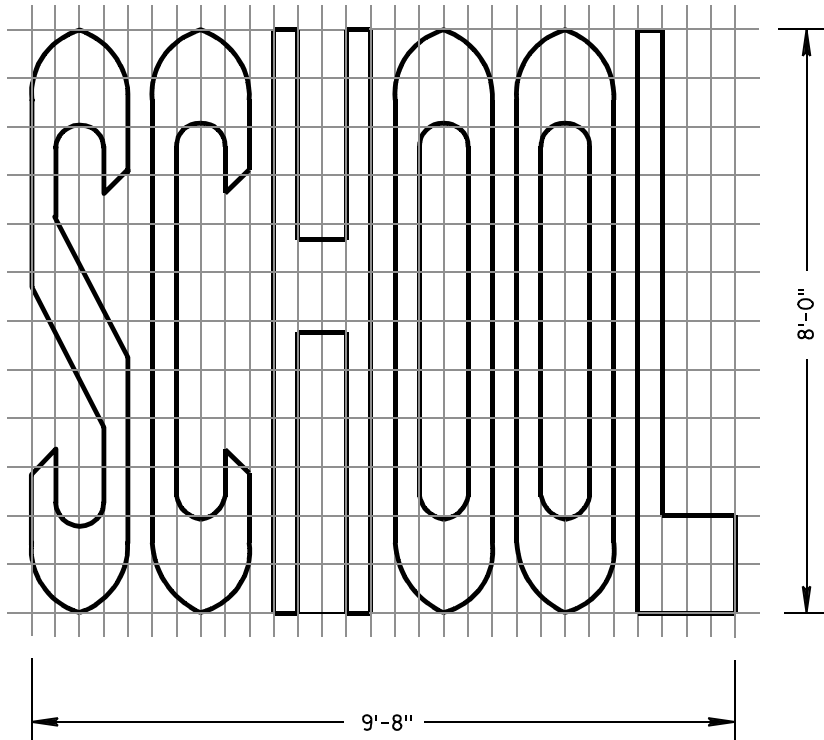
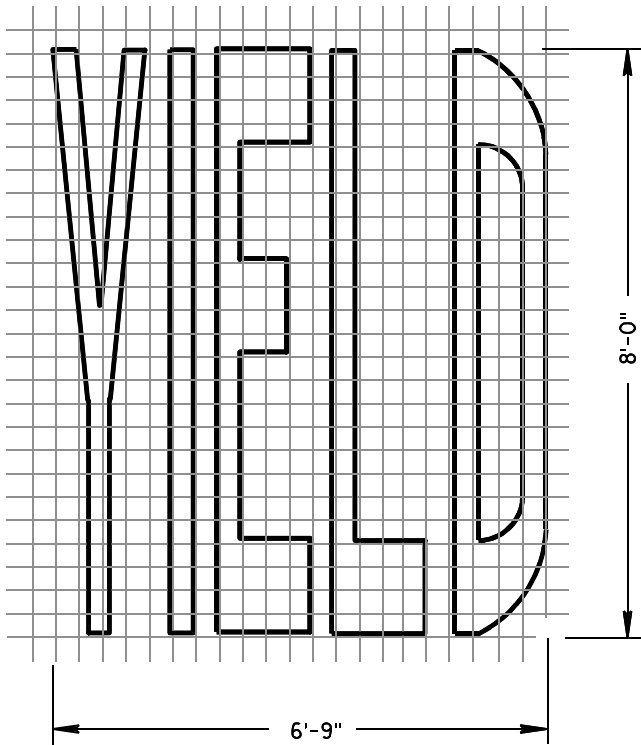
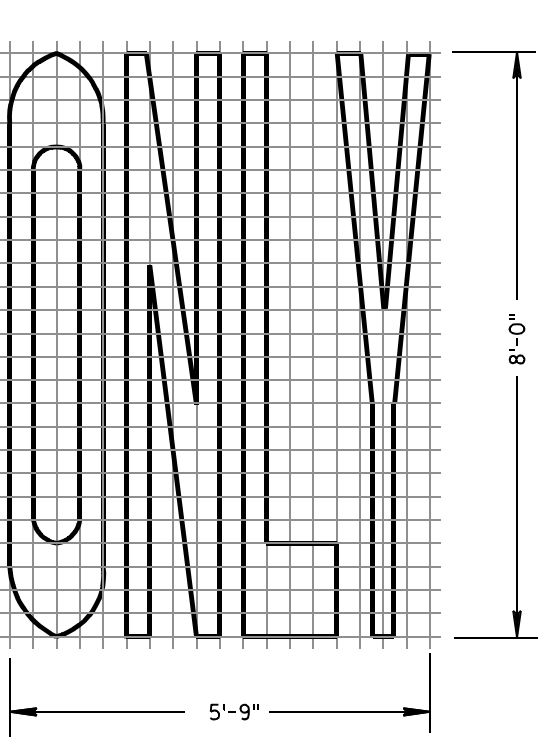
GENERAL NOTES

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.

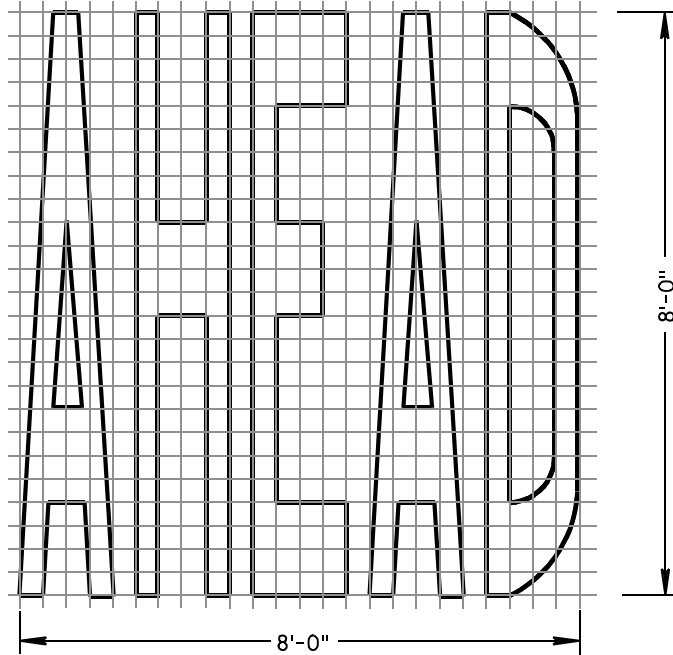
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES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



TWO-LANE



SINGLE-LANE



PAVEMENT MARKING WORDS

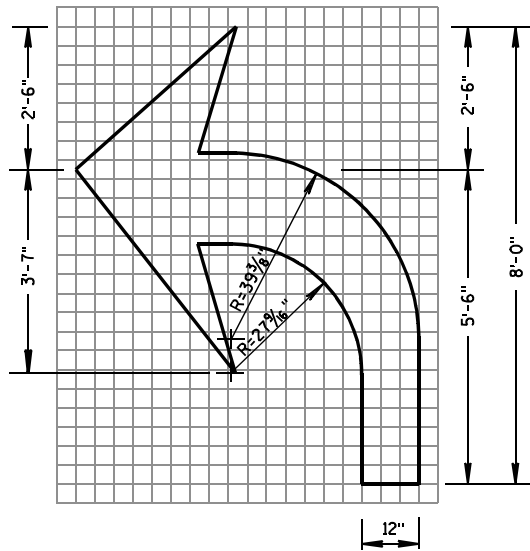
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

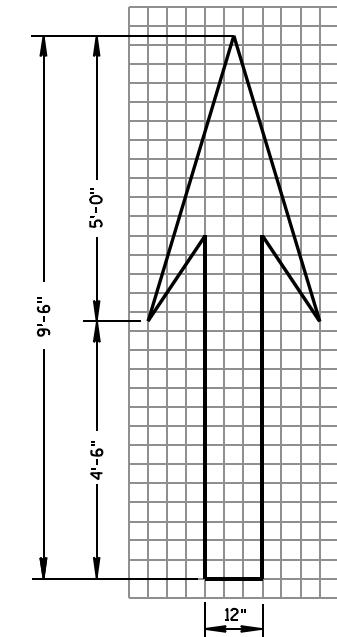
7-1-11
DATE

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

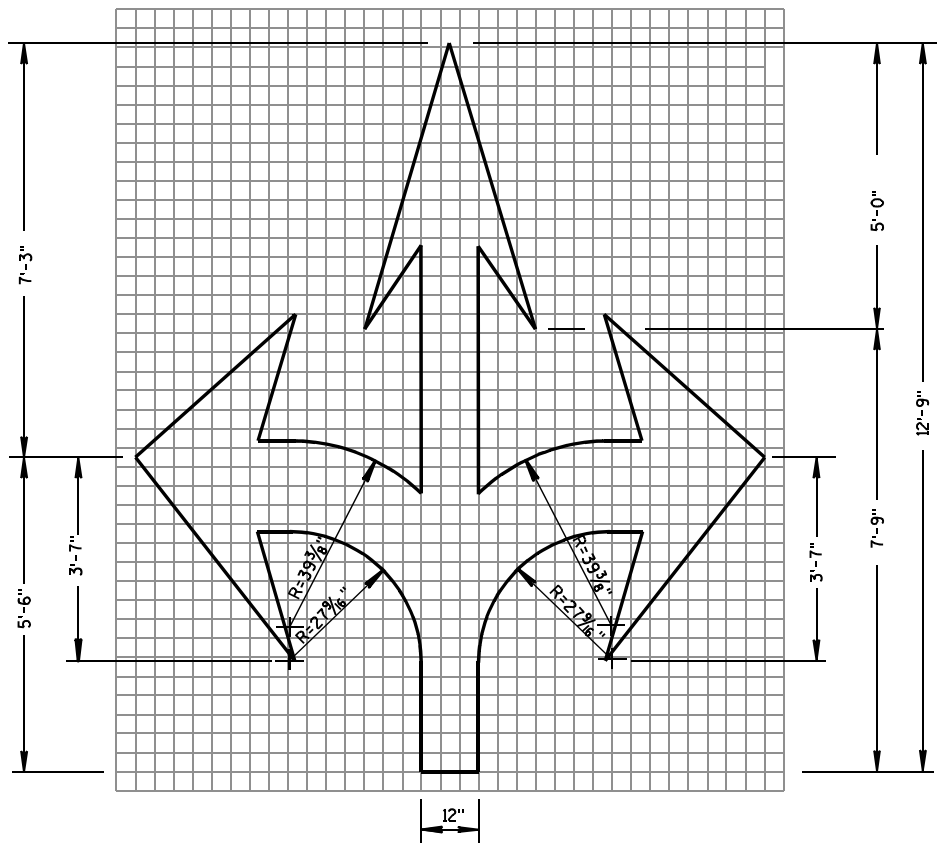
FHWA



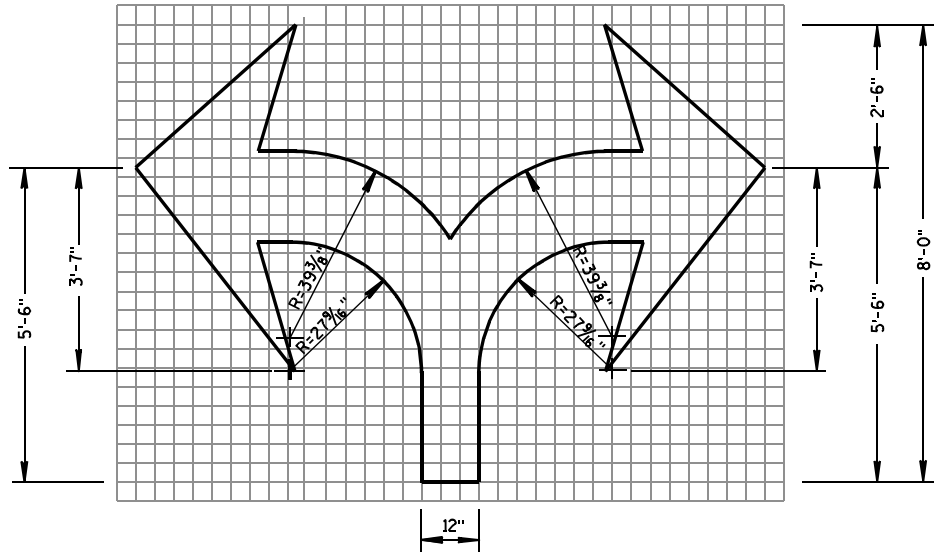
TYPE 2



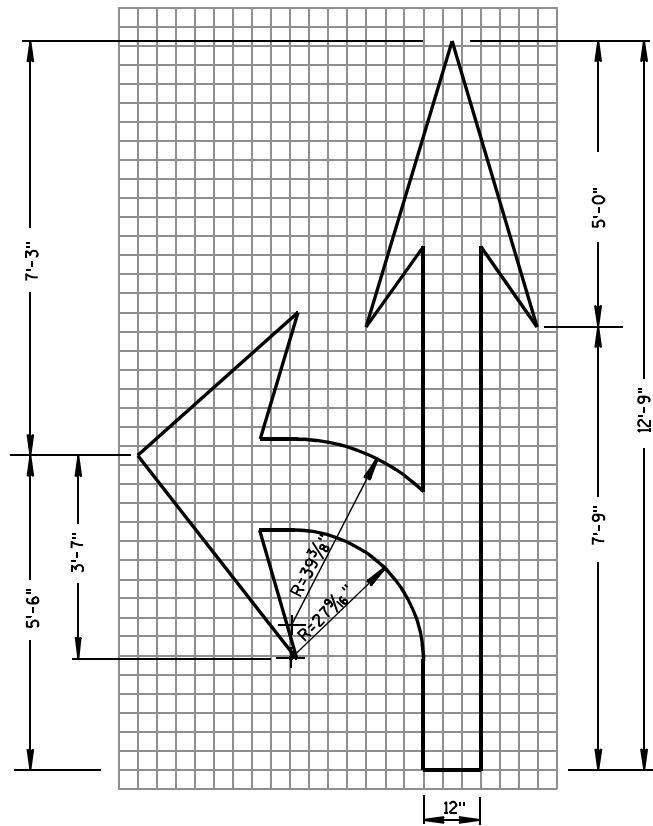
TYPE 1



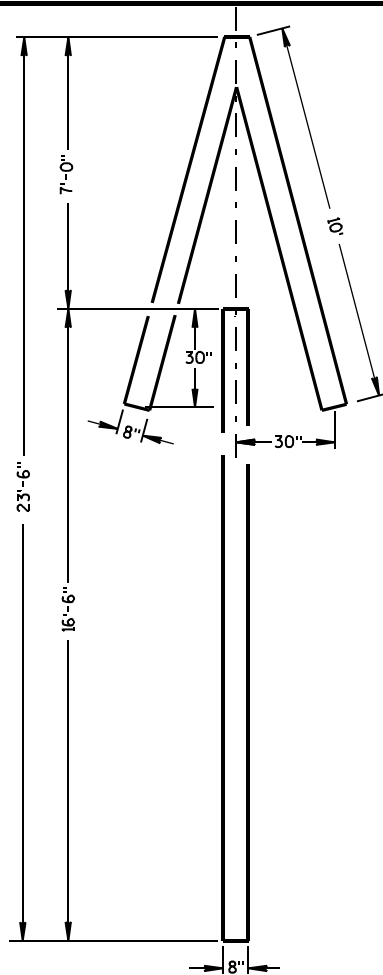
TYPE 6



TYPE 7



TYPE 3

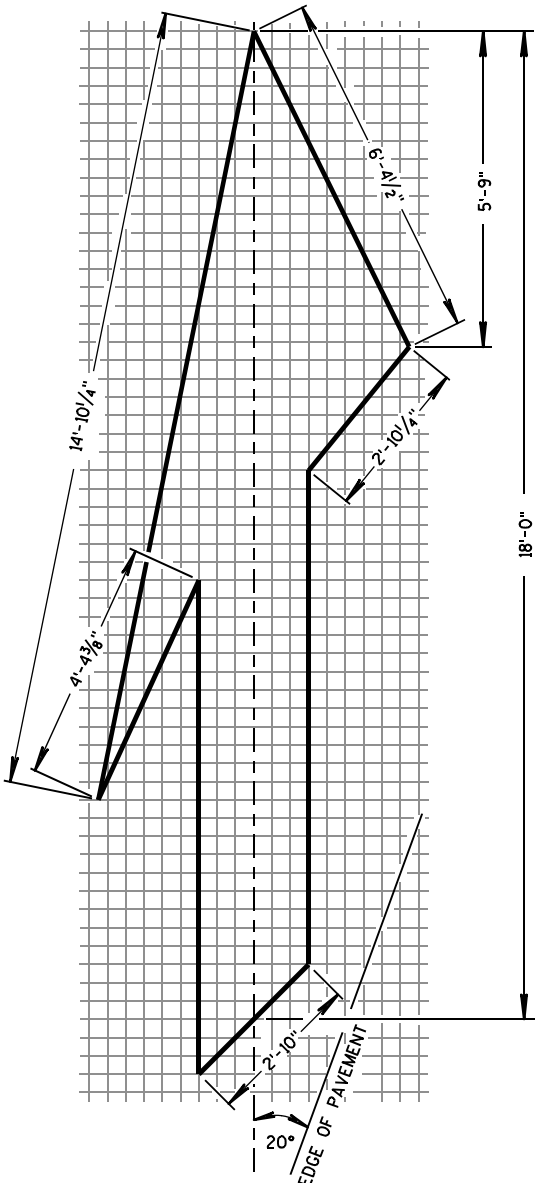


TYPE 4

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.

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.



TYPE 5 LANE DROP ARROW

PAVEMENT MARKING ARROWS

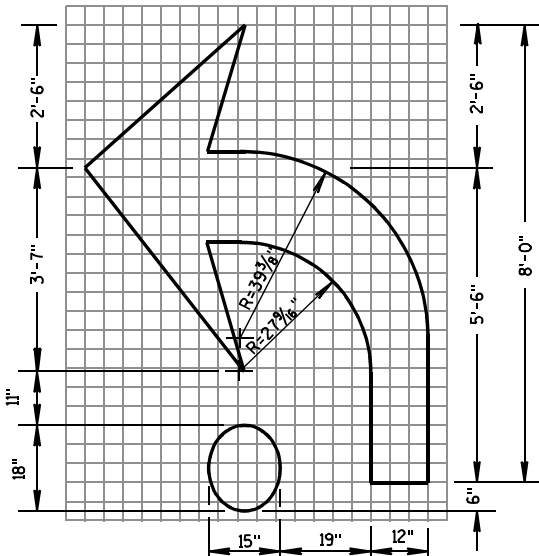
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

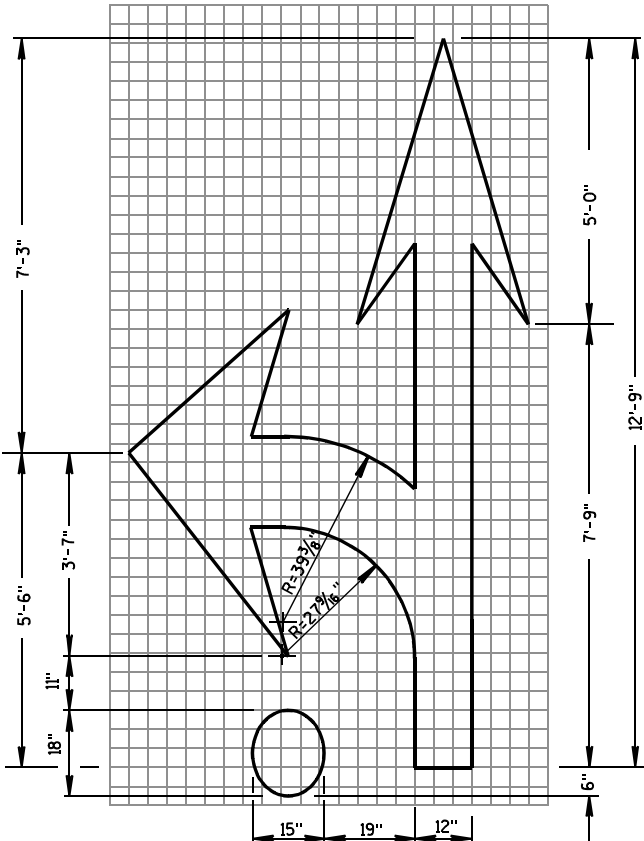
7/1/11
DATE

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

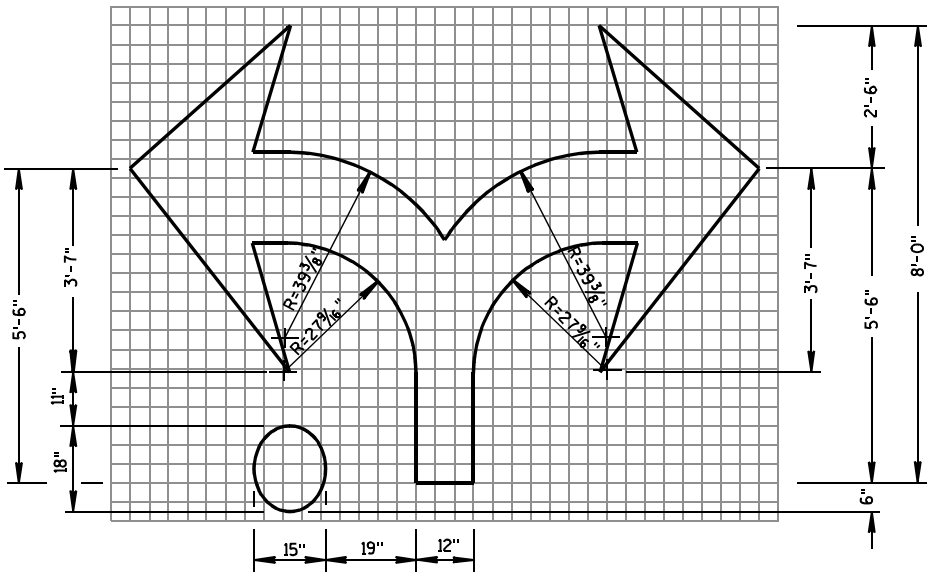
FHWA



TYPE 2R



TYPE 3R

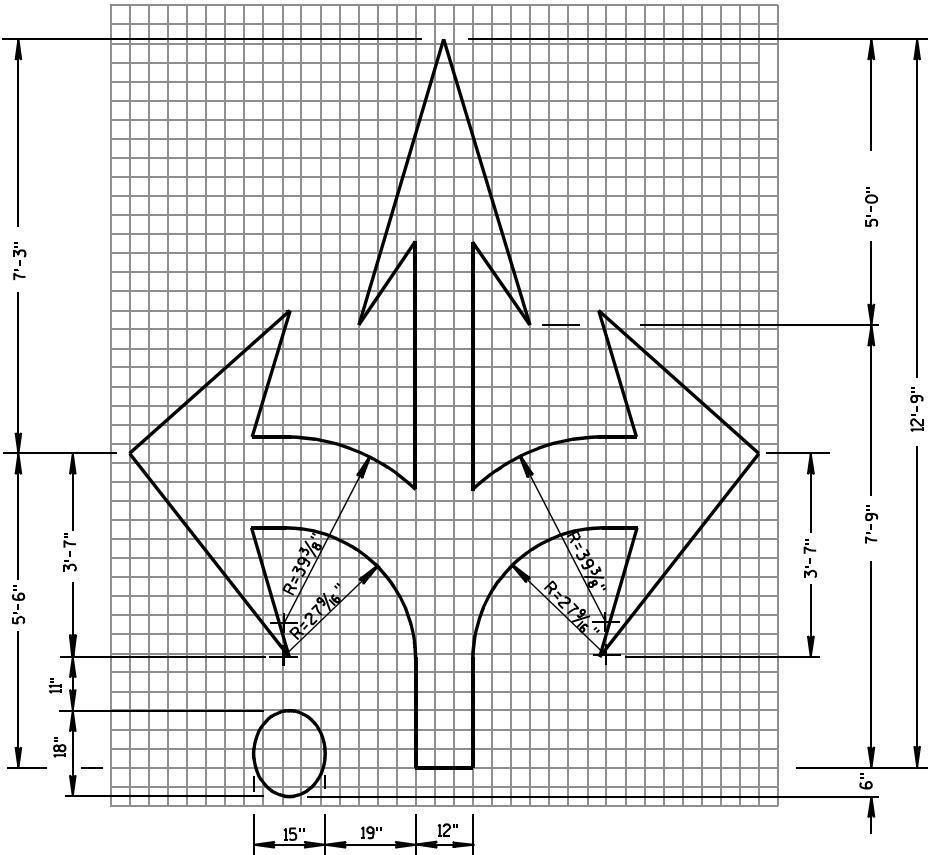


TYPE 7R

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.



TYPE 6R

ROUNDBOULT ARROWS

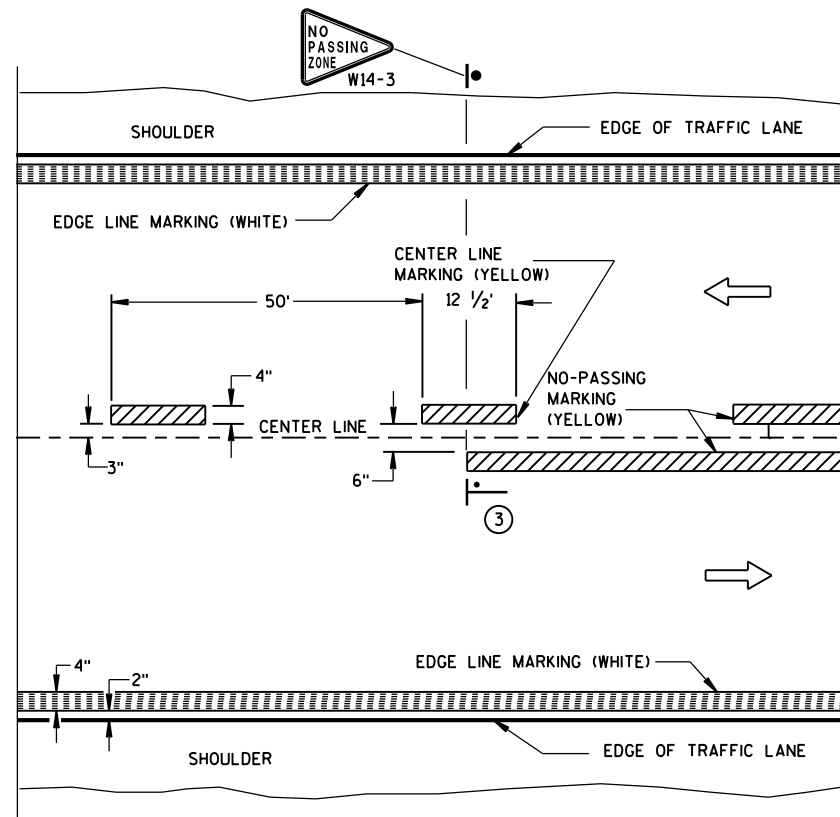
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

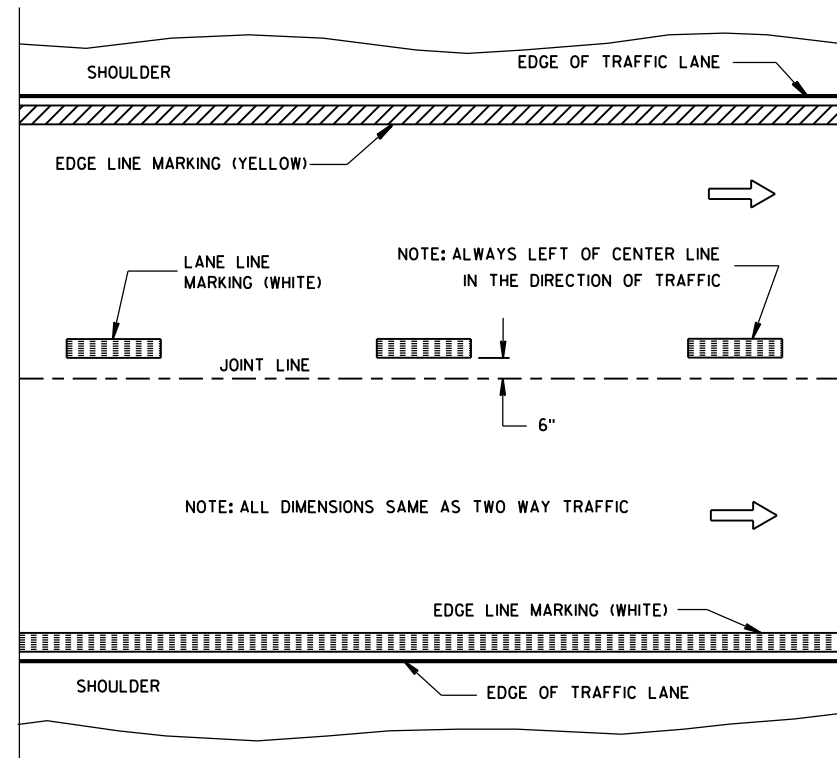
7/1/11
DATE

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

FHWA

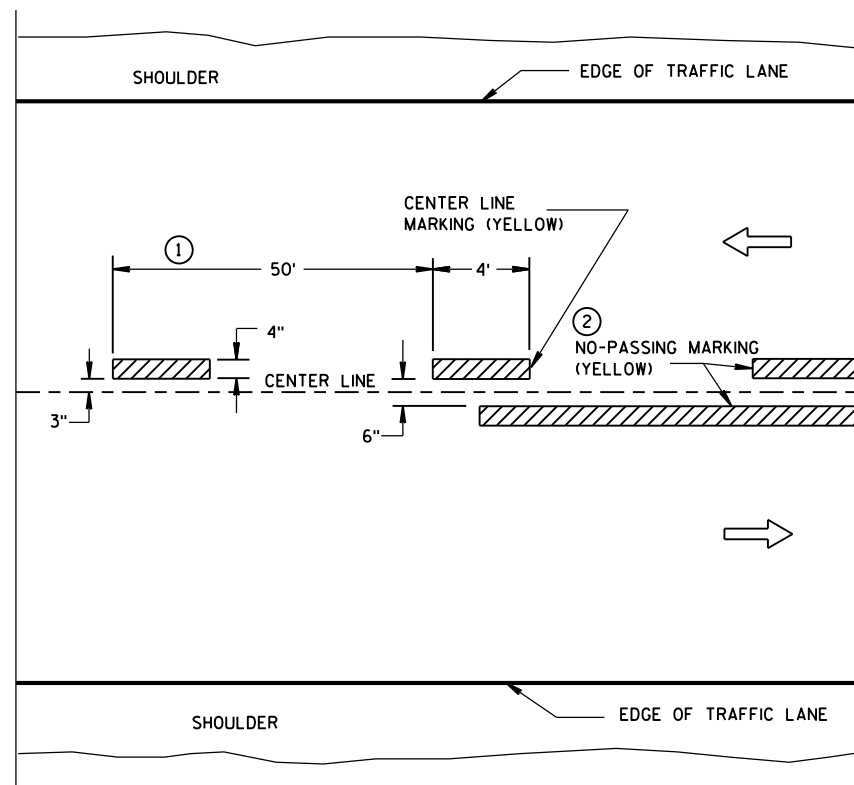


TWO WAY TRAFFIC

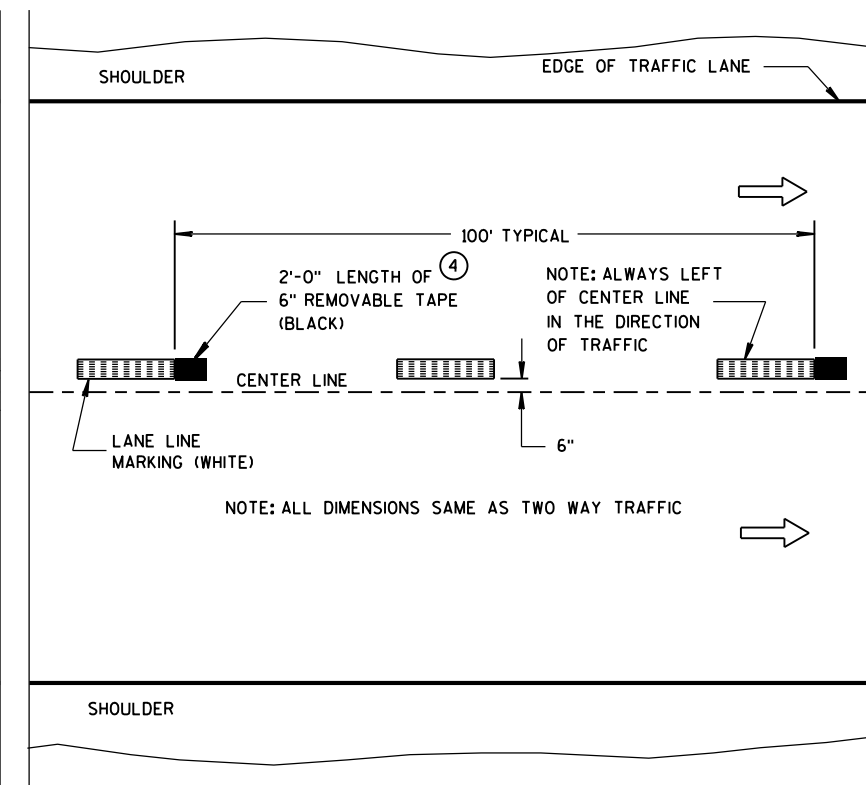


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

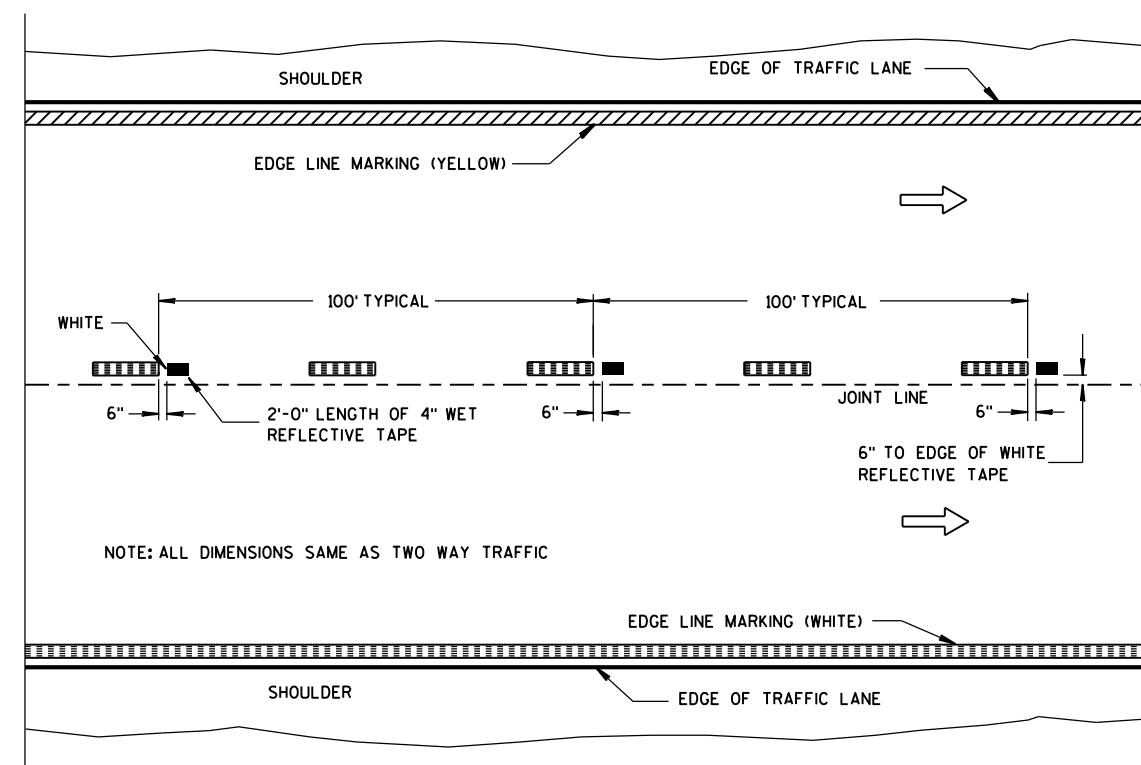
GENERAL NOTES

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

- ① HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- ② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- ③ NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- ④ CONCRETE ONLY.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

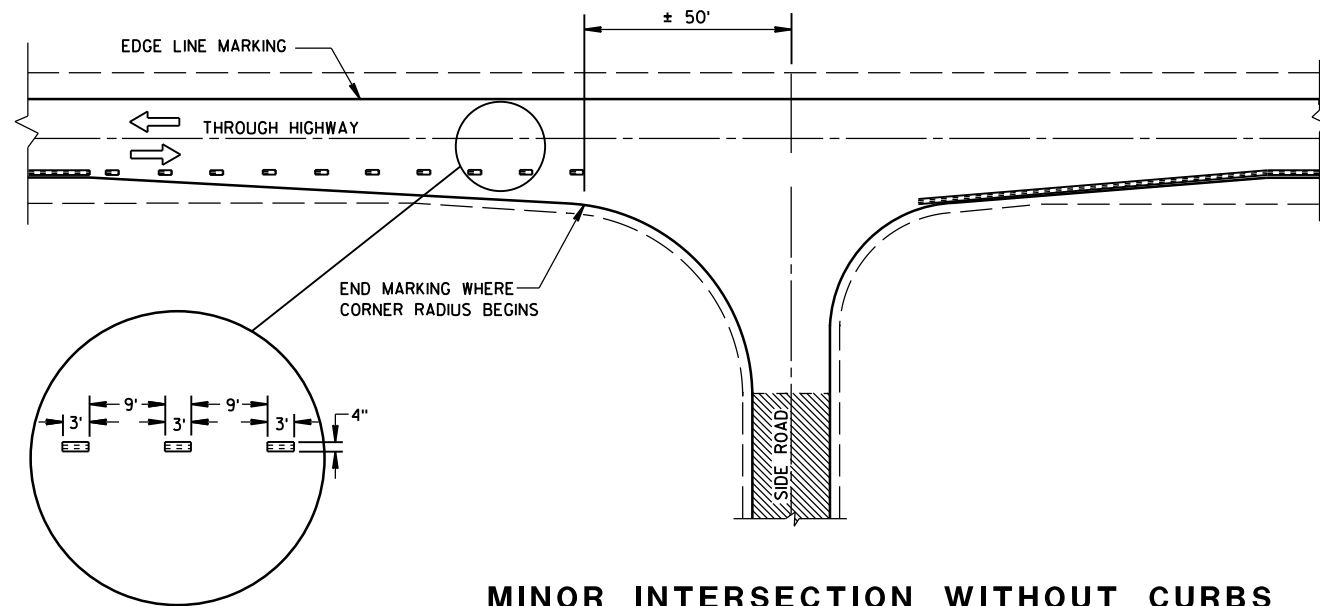
- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5-13-2013
DATE
FHWA

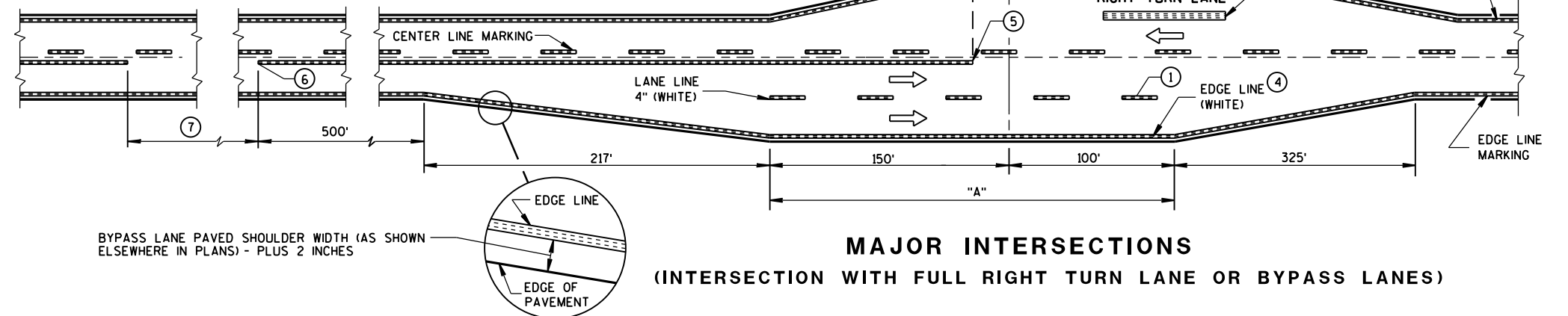
/S/ Travis Feltes
STATE TRAFFIC ENGINEER



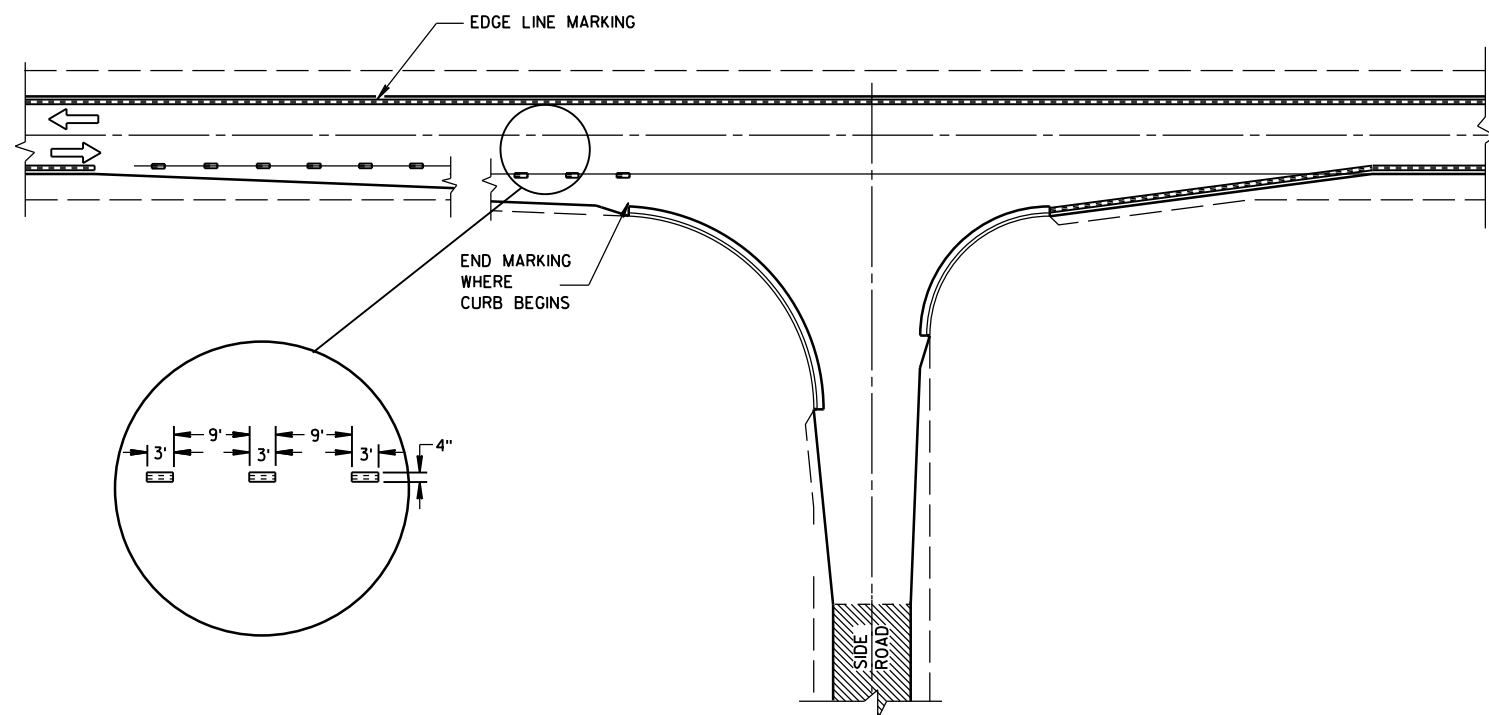
MINOR INTERSECTION WITHOUT CURBS

⑦

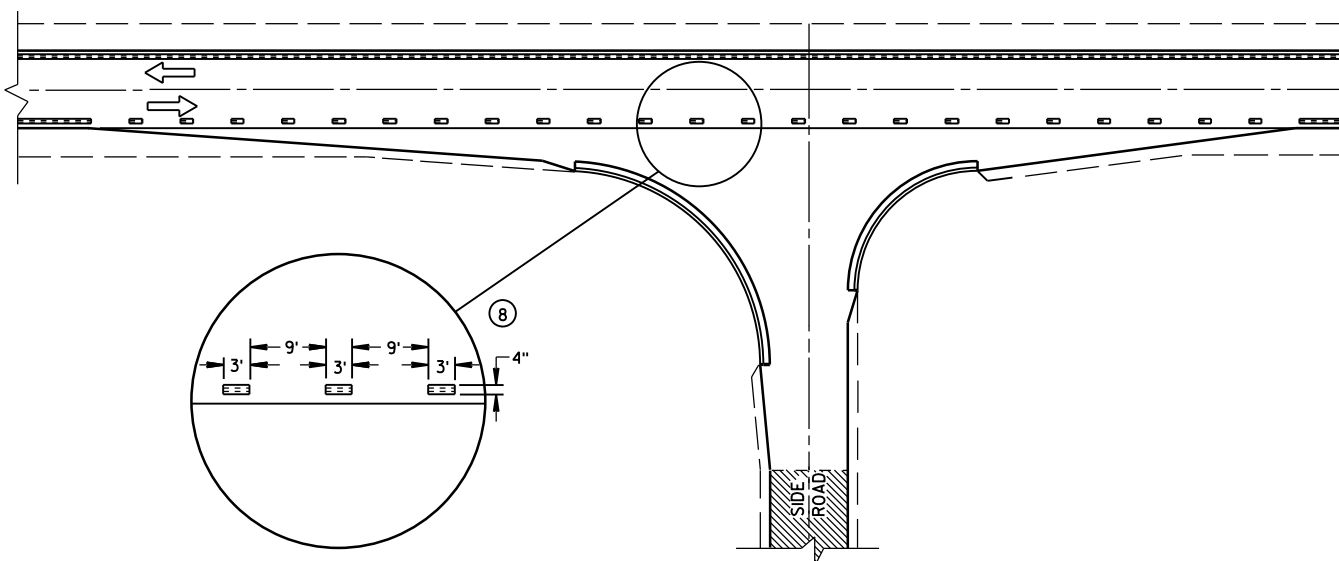
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



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



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



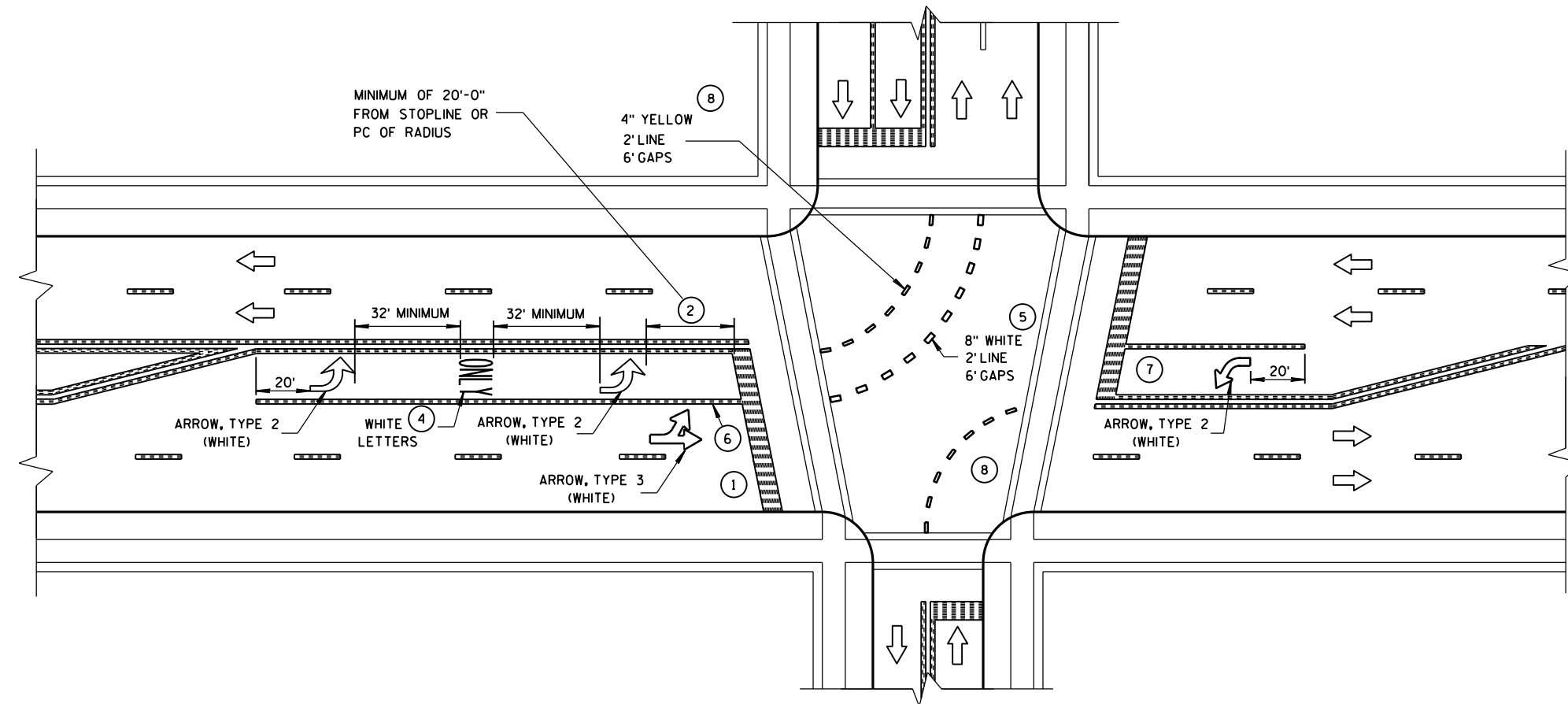
MINOR INTERSECTION WITH CURBS
⑧ (FOR SPECIAL CONDITIONS AS SPECIFIED)

GENERAL NOTES

- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED 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 ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
 - ④ THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.
 - ⑤ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
 - ⑥ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
 - ⑦ IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.
 - ⑧ 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

PAVEMENT MARKING
(INTERSECTIONS)

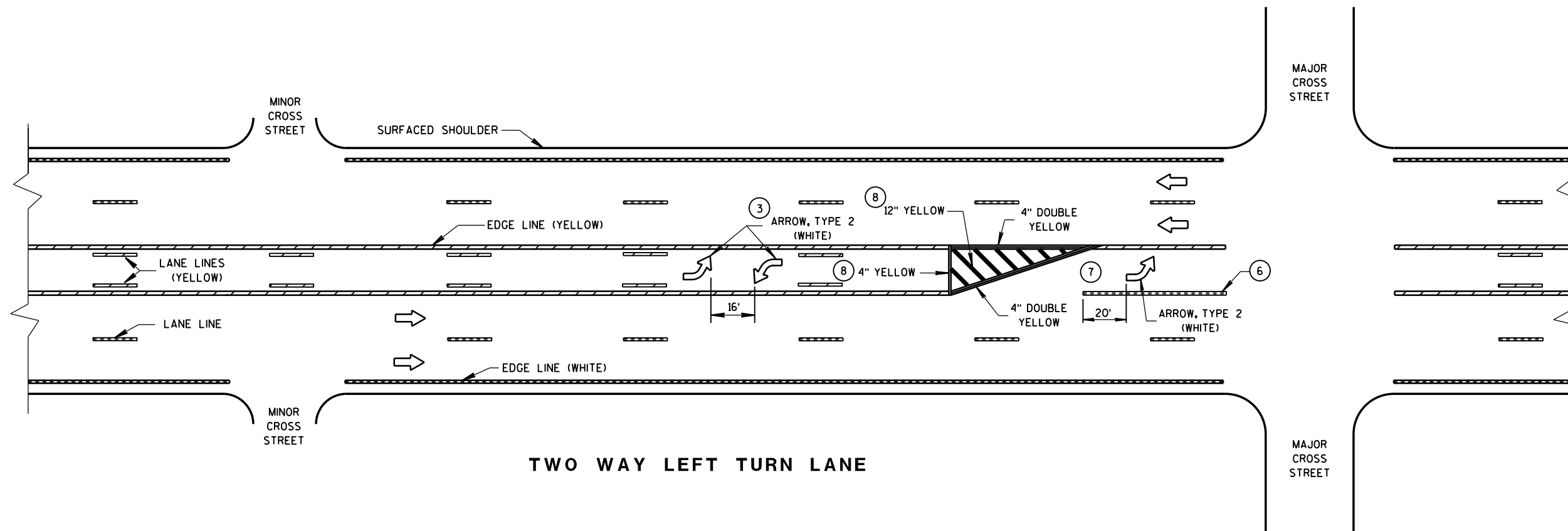
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

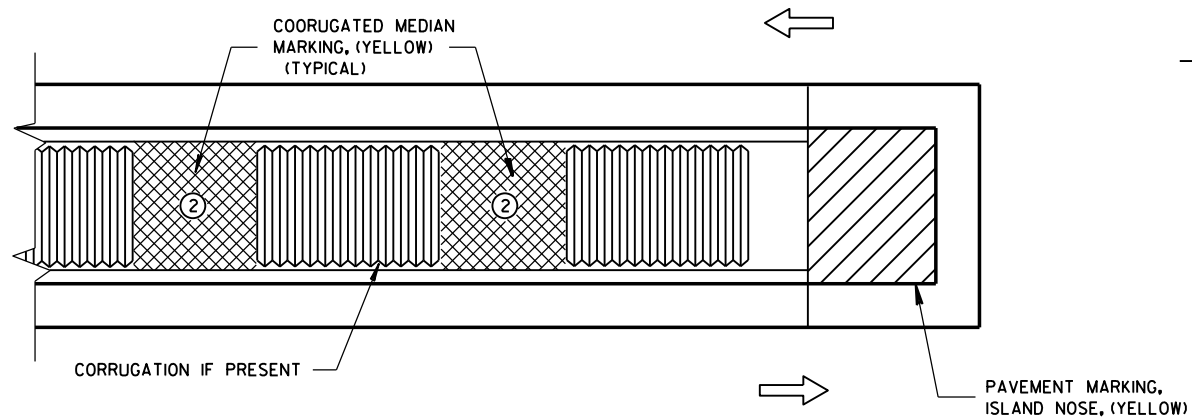
- ① STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DISTANCE MAY BE ADJUSTED TO ACCOMMODATE SHORT LEFT TURN LANES, AS APPROVED BY THE ENGINEER.
- ③ A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ④ ADD EXTRA SETS OF ONE ARROW AND ONE 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

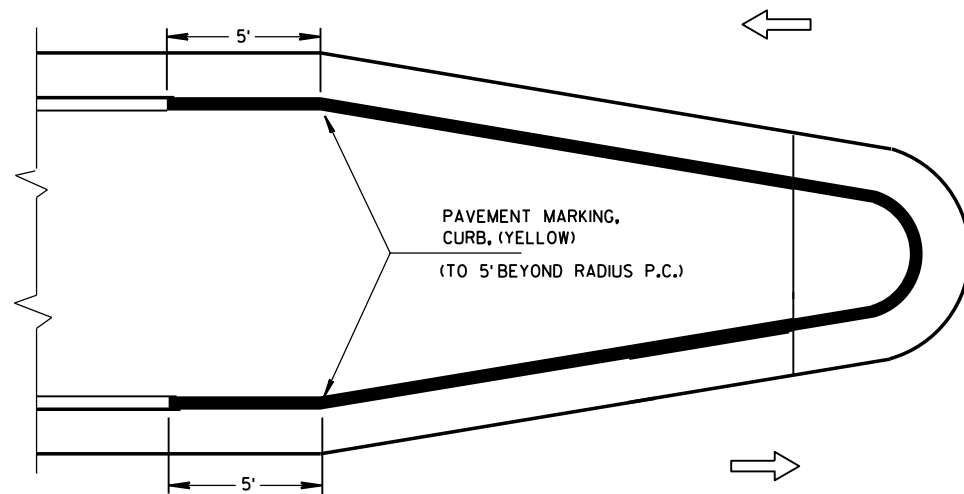


PAVEMENT MARKING
(LEFT TURN LANE)

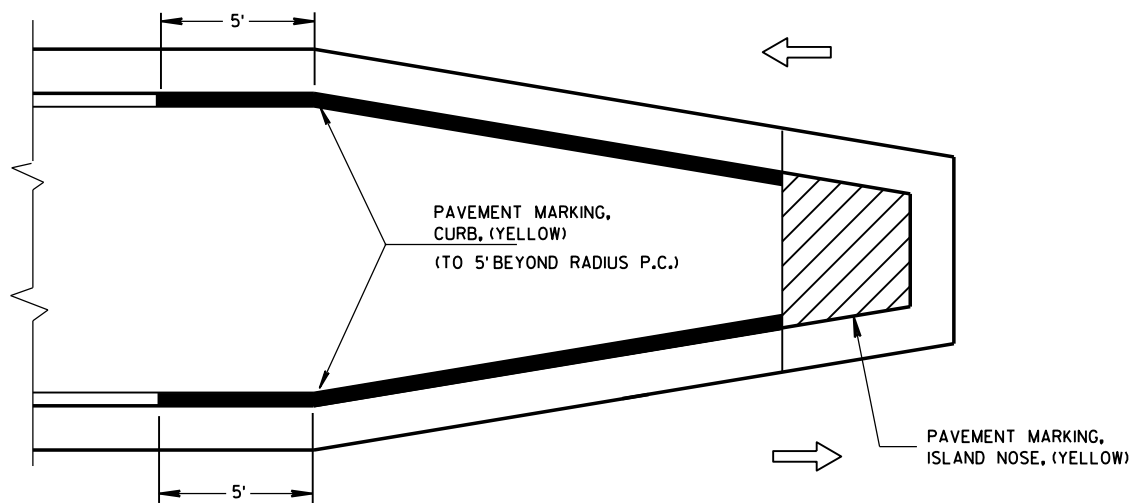
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

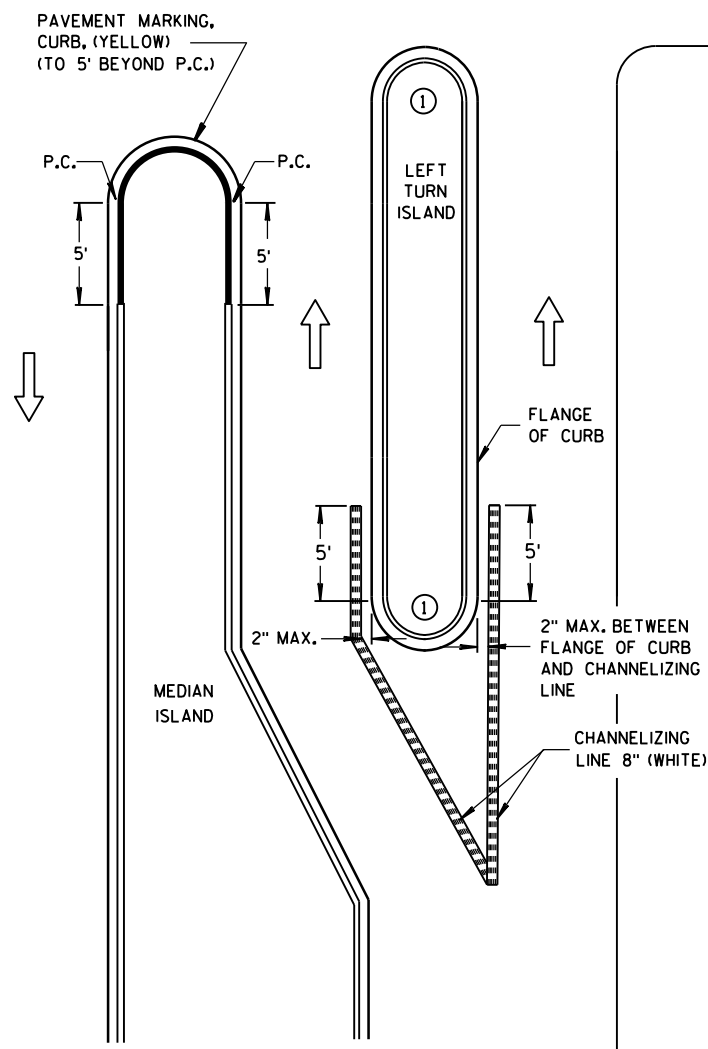


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

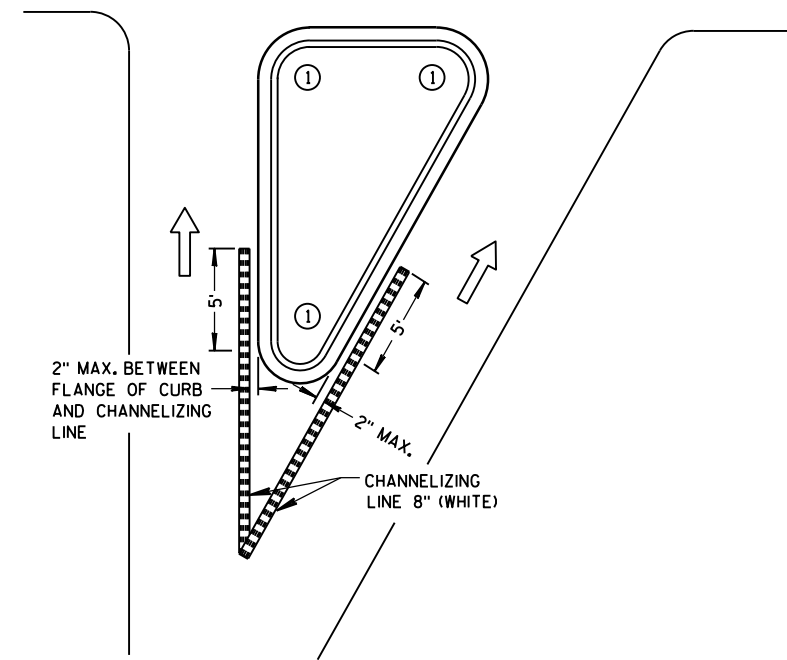
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

- 1 DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
- 2 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 AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



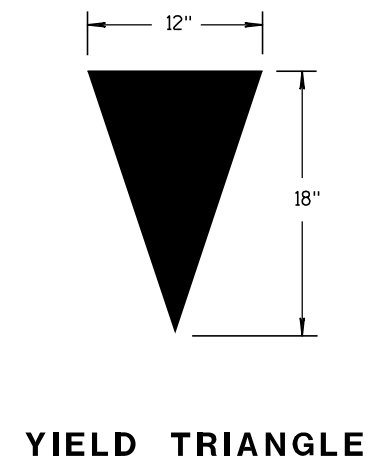
RIGHT TURN ISLAND

LEGEND

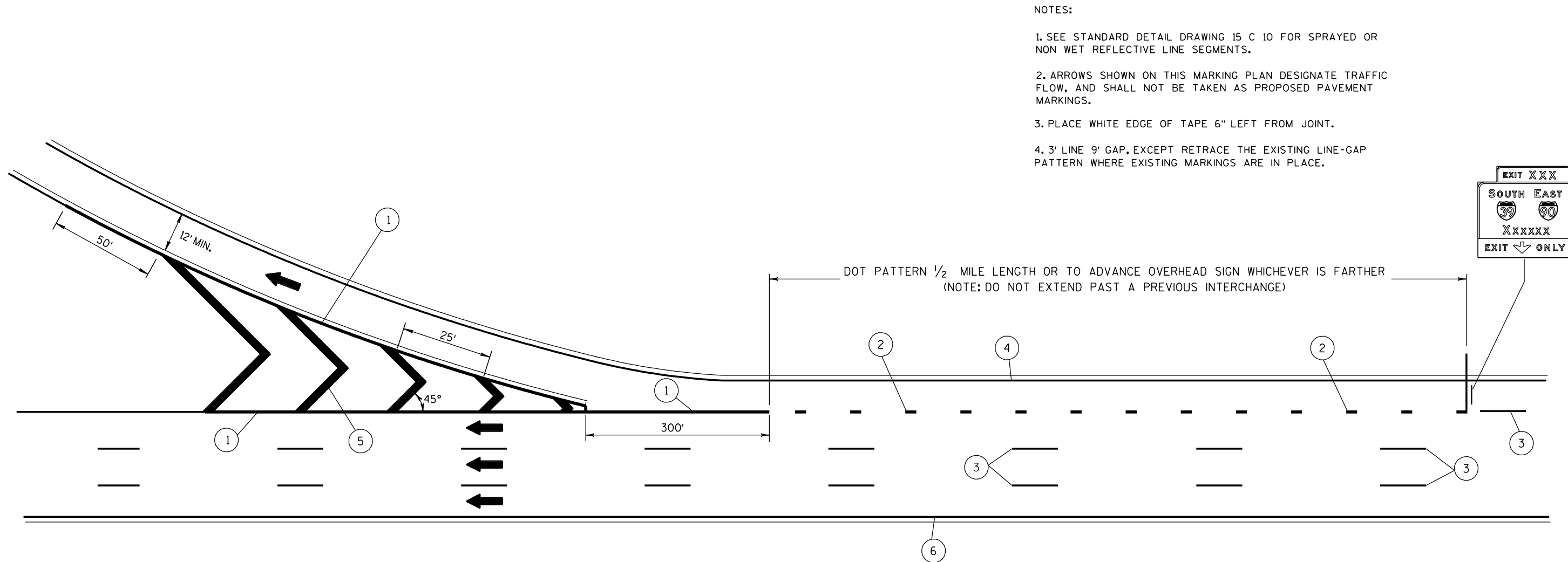
- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING (ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



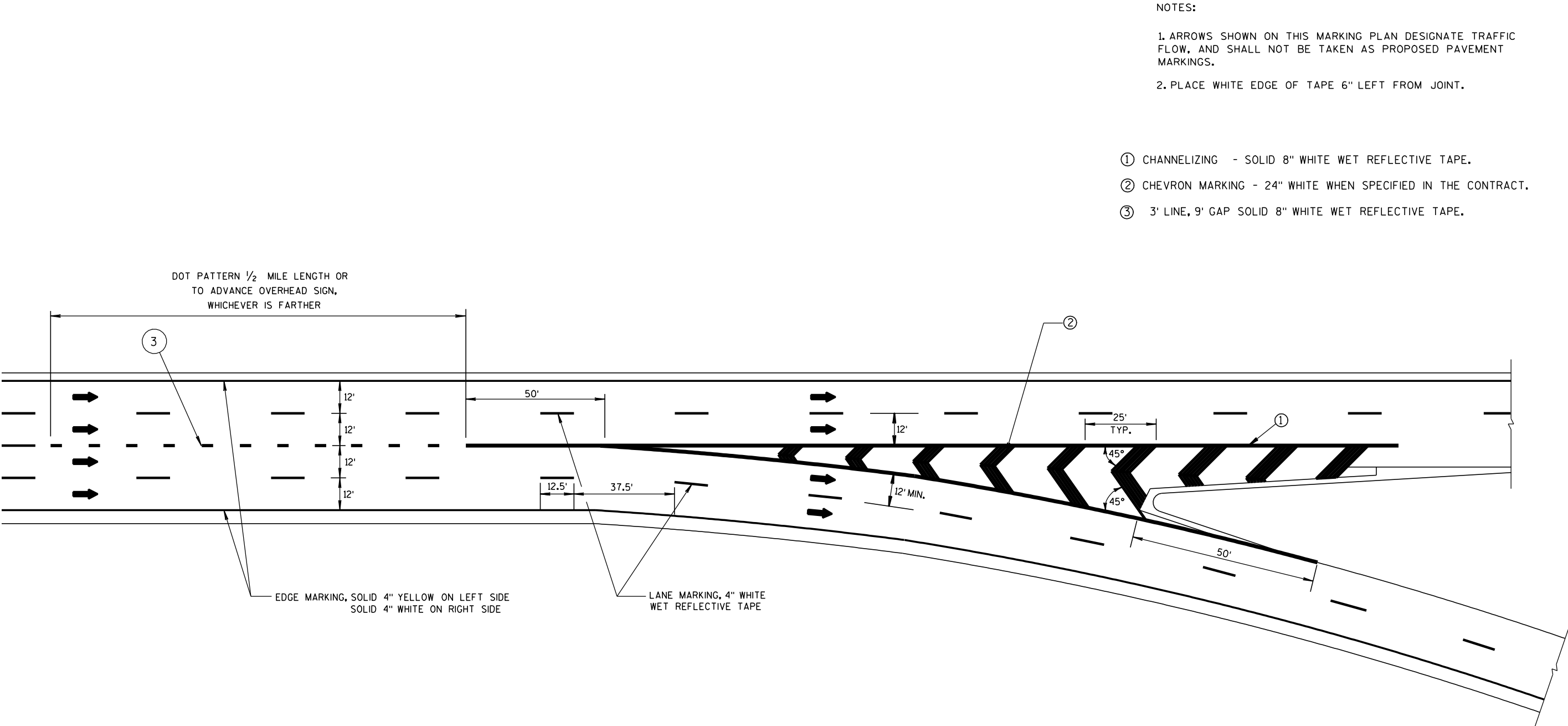
YIELD MARKINGS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED <u>1/28/05</u> DATE	<u>/S/ Thomas N. Notbohm</u> STATE TRAFFIC ENGINEER OF DESIGN
FHWA	



- ① CHANNELIZING - SOLID 8" WHITE WET RELECTIVE TAPE
- ② 3' LINE, 9' GAP SOLID 8" WHITE WET REFLECTIVE TAPE. SEE NOTE 4.
- ③ SOLID 4" WHITE WET REFLECTIVE TAPE
- ④ 4" WHITE EDGELINE
- ⑤ CHEVRON MARKING - 24" WHITE WHEN SPECIFIED IN THE CONTRACT
- ⑥ 4" YELLOW EDGELINE

LANE DROP
PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



- 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.
- ① CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE.
- ② CHEVRON MARKING - 24" WHITE WHEN SPECIFIED IN THE CONTRACT.
- ③ 3' LINE, 9' GAP SOLID 8" WHITE WET REFLECTIVE TAPE.

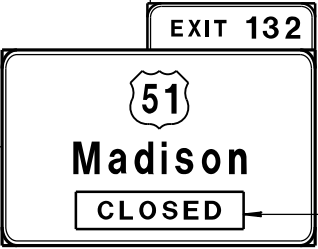
PAVEMENT MARKING
MAJOR SPLIT
FREEWAY TO FREEWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



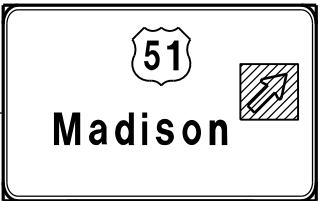
G20-60
108"x24"

OR



G20-60
108"x24"

PLACE SIGN G20-60 OVER MILEAGE
ON EXISTING E1-1A SIGN



COVER ARROW ON
EXISTING E4-1A
SIGN (COVERING
SIGNS TYPE I)

G20-61
120"x30"

GENERAL NOTES

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

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 SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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.

PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROPOFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN THE WORK IS NOT IN PROGRESS.

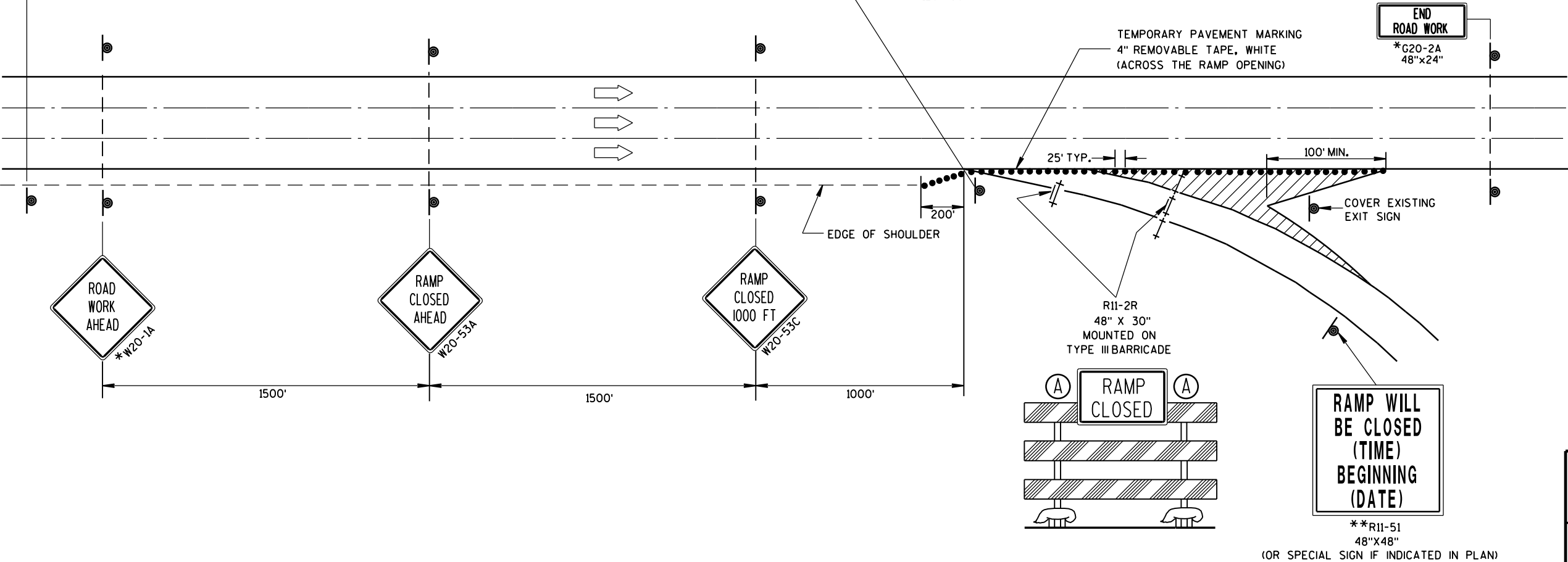
WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12-HOUR DURATION.

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

** PLACE "RAMP WILL BE CLOSED" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.

6

6



LEGEND

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

TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 /S/ Peter Amakobe Atepe
DATE STATEWIDE WORK ZONE TRAFFIC
FHWA SAFETY ENGINEER

S.D.D. 15 D 16-3

S.D.D. 15 D 16-3

TABLE 1
TAPER AND BUFFER SPACE
FOR 12' LANE WIDTH

s	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

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

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 SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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 THE DISTRICT TRAFFIC UNIT.

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

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 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.

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

W20-1, 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.

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

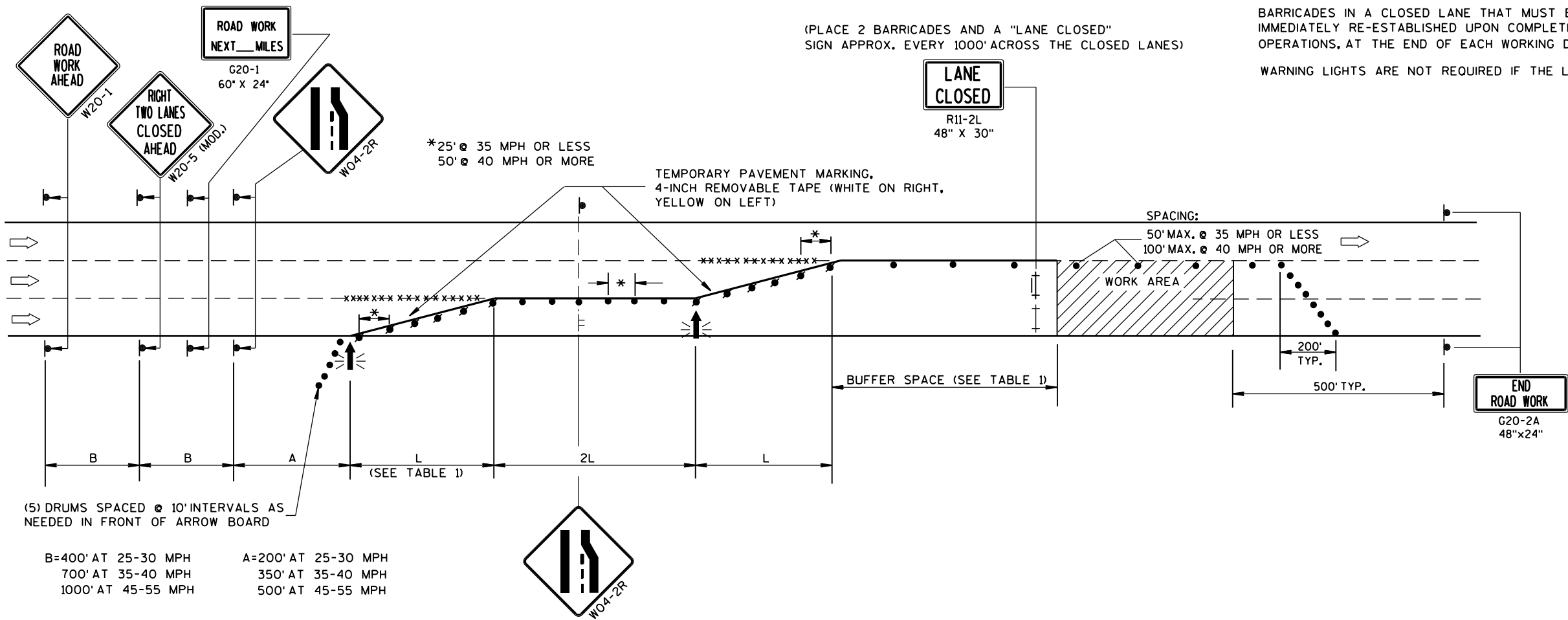
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO LOCATE THE ARROWBOARD AS SHOWN, PLACE THE ARROWBOARD IN THE LANE CLOSURE TAPER AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE TAPER.

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

BARRICADES IN A CLOSED LANE 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.

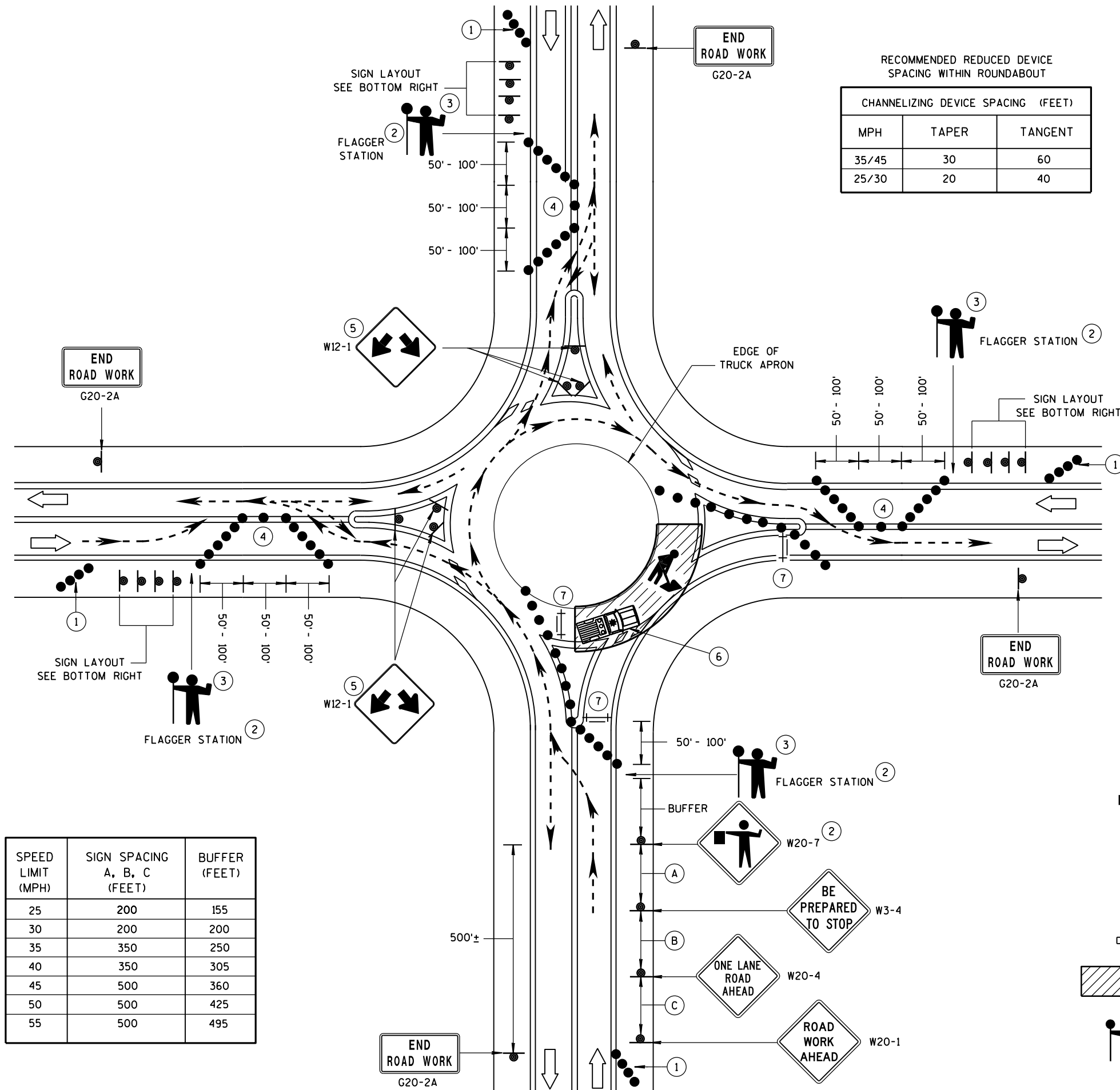
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.



TRAFFIC CONTROL,
TWO LANE CLOSURE,
NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



SPEED LIMIT (MPH)	SIGN SPACING A, B, C (FEET)	BUFFER (FEET)
25	200	155
30	200	200
35	350	250
40	350	305
45	500	360
50	500	425
55	500	495

END
ROAD WORK
G20-2A

RECOMMENDED REDUCED DEVICE SPACING WITHIN ROUNDABOUT		
CHANNELIZING DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
35/45	30	60
25/30	20	40

GENERAL NOTES

ALL SIGNS ARE 48"x48" BLACK ON ORANGE UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS IF APPROVED BY THE ENGINEER.

REMOVE OR COVER CONFLICTING SIGNS.

THE EXACT LOCATION AND PLACEMENT OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

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.

RADIO COMMUNICATION SHALL BE USED BY ALL FLAGGERS.

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

- 1 PLACE A MINIMUM OF 4 DRUMS ON THE SHOULDER IN ADVANCE OF THE PCMS IN A TAPER FOR DELINEATION ON ALL APPROACHES TO THE ROUNDABOUT.
- 2 ESTABLISH THE LIMITS OF THE WORK ZONE TO ENSURE THE MAXIMUM POSSIBLE SIGHT DISTANCE TO THE FLAGGER STATION.
- 3 FLAGGERS SHALL BE IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.
- 4 ADJUST CHANNELIZING DEVICES TO ACCOMMODATE FOR TURNING RADIUS OF LARGE VEHICLES AS DIRECTED BY THE ENGINEER.
- 5 GUIDE SIGN WITH ROAD NAMES MAY BE USED IN LIEU OF THE DOUBLE ARROW (W12-1) SIGN.
- 6 BUFFER VEHICLE RECOMMENDED TO SHIELD WORK AREA.
- 7 TYPE III BARRICADES WITH ROAD CLOSED SIGN.

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

TRAFFIC CONTROL, 2-LANE ROUNDABOUT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3-2014 /S/ Travis Feltz
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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