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Sheet No.		Estimate of Quantities
Sheet No.		Miscellaneous Quantities
Sheet No.		Standard Detail Drawings

TOTAL SHEETS = 30

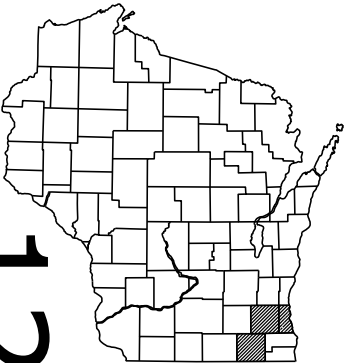
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

EPOXY PAVEMENT MARKING - 2013

VARIOUS HIGHWAYS
SE REGION WIDE

STATE PROJECT NUMBER
1000-77-09



12

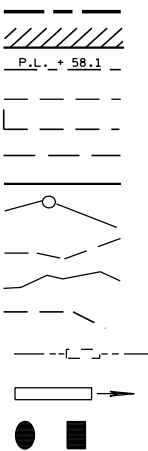
WAUKESHA COUNTY

MILWAUKEE COUNTY

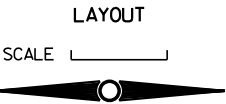
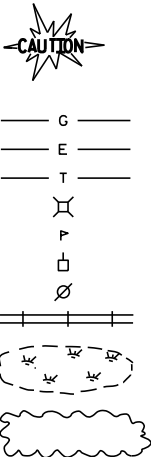
WALWORTH COUNTY

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 1000-77-09 = 36.000 MI.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	_____
Designer	DONALD STEEL
Project Manager	TOM HEYDEL
Regional Examiner	_____
Regional Supervisor	HANS HIGDON
C.O. Examiner	_____
APPROVED FOR THE DEPARTMENT	
DATE: 1-24-2013	<i>Thomas Heydel, P.E.</i> (Signature)

E

PROJECT ID: 1000-77-09
WITH: N.A.

COUNTY: SE REGION WIDE

CONTACTS:

DNR- SPILL HOTLINE (24HR)

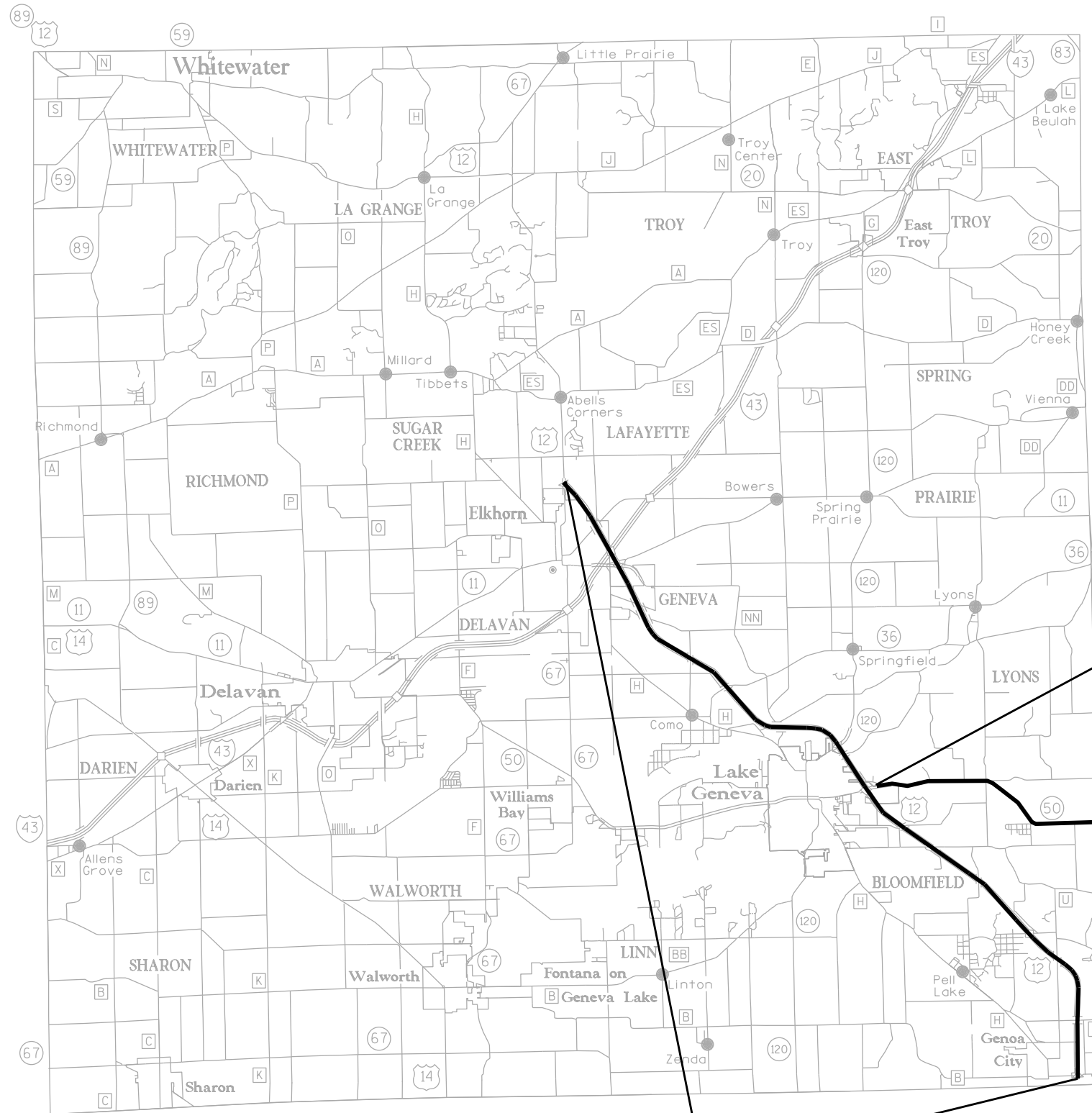
1-800-943-0003



Call 811 3 Work Days Before You Dig
Or Toll Free (800) 242-8511

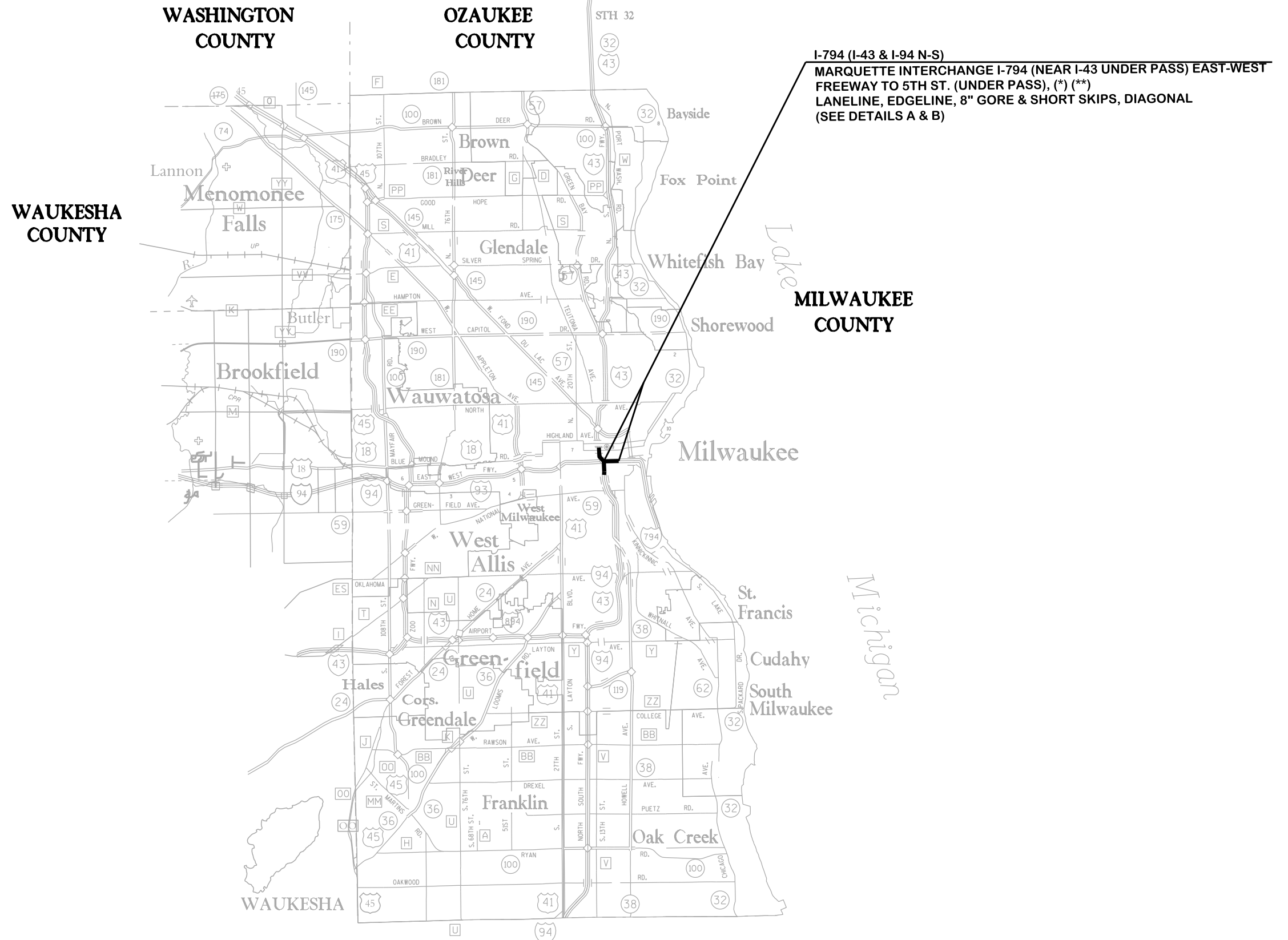
Hearing Impaired TDD (800) 542-2289

www.DiggersHotline.com



STH 50
KENOSHA WEST CO. LINE TO LAKE GENEVA WAY
LANELINE, EDGELINE, 8" GORE & SHORT SKIPS, DIAGONAL

USH 12
STH 67 TO CTH H
NOTE: NEW EPOXY @ 43 NB
(LANELINE, EDGELINE, 8" GORE & SHORT SKIPS)

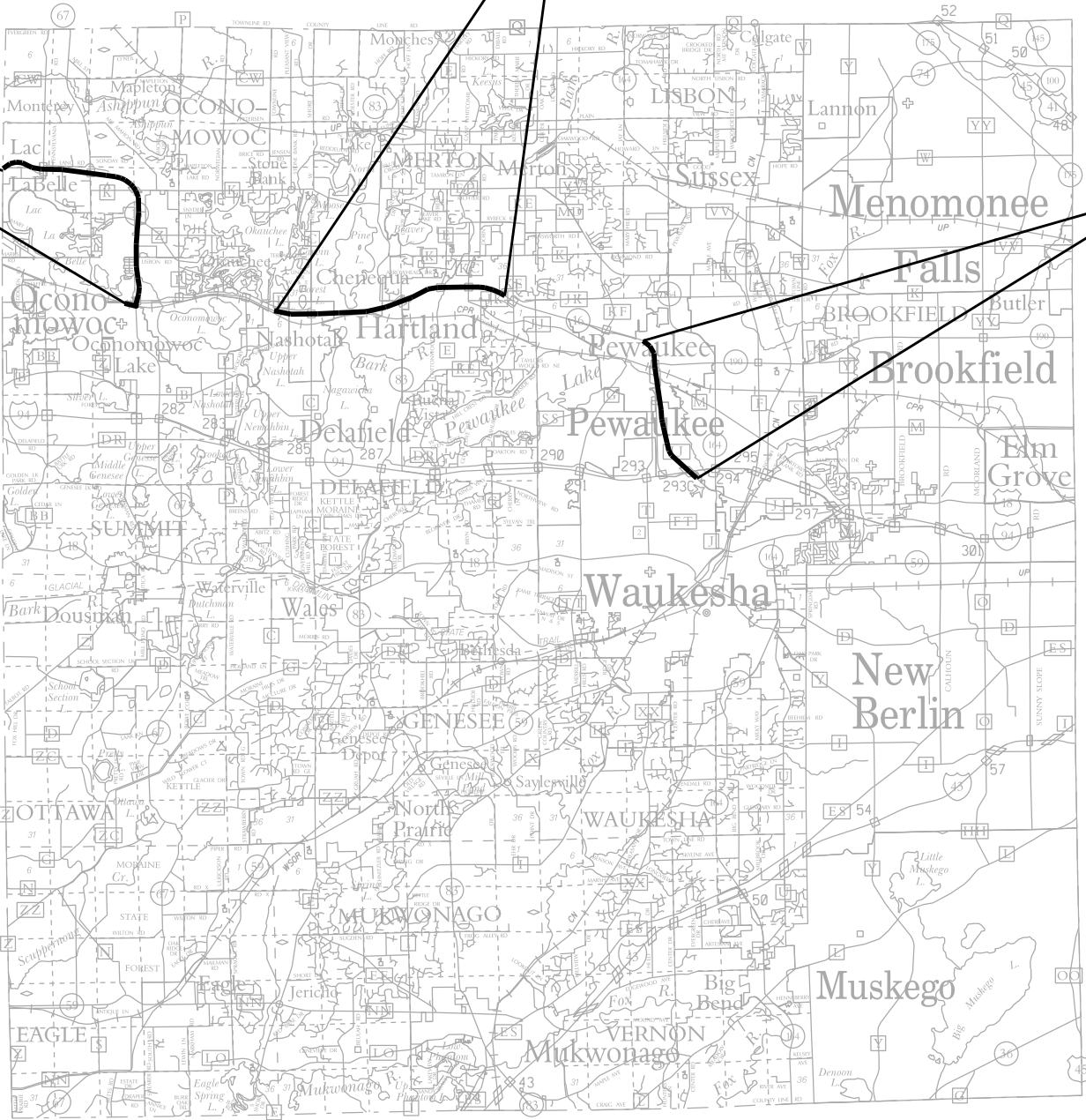




STH 16 (BYPASS)
(@ 16 & 67 INTER) TO JEFFERSON CO. LINE
LANE LINES, YELLOW & WHITE EDGELINE, 8" LINES
GORE AND SHORT SKIPS

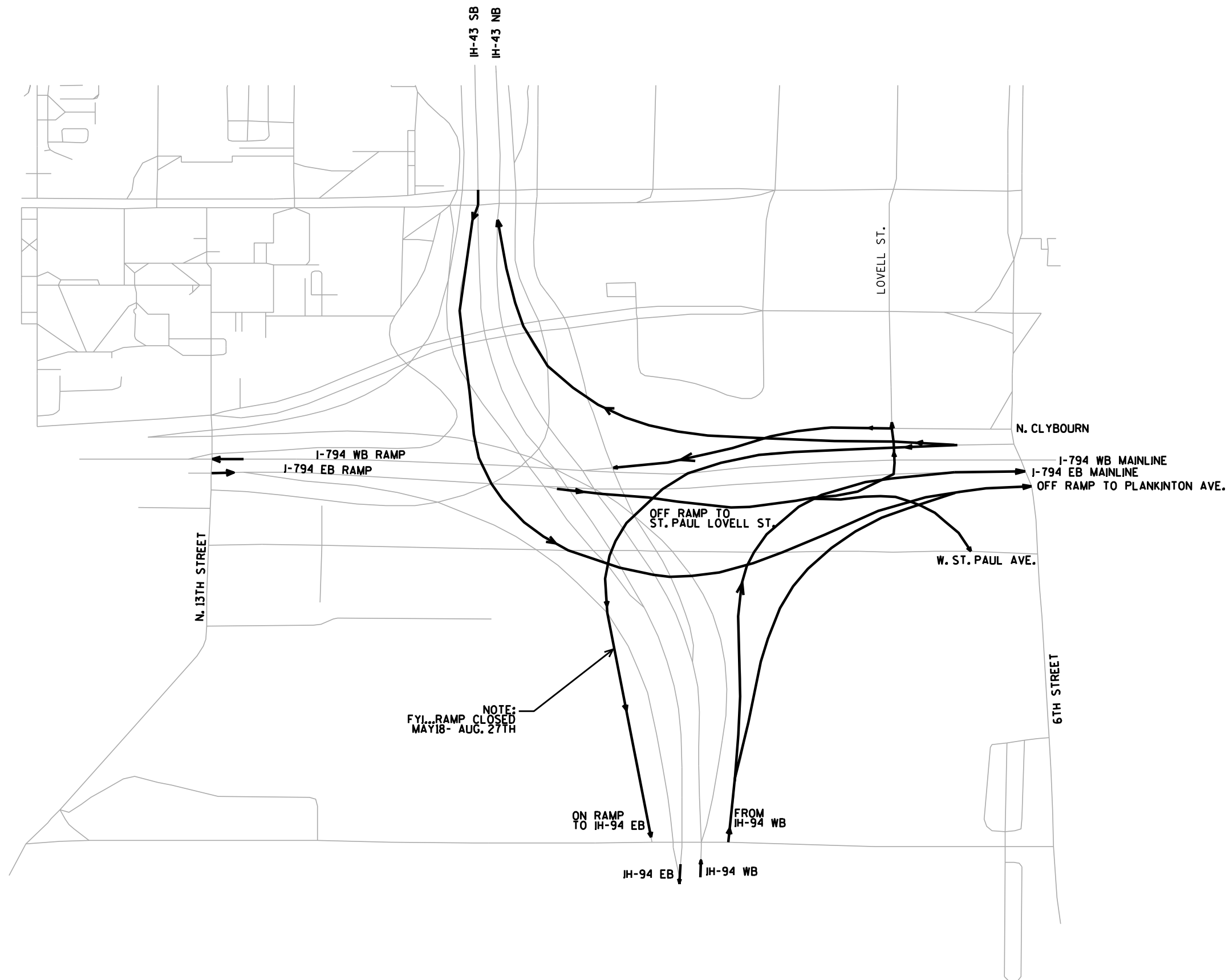
STH 16
2,100' EAST OF CTH KCIE TO 4500' WEST OF CTH C
LANE LINES, YELLOW & WHITE EDGELINE, 8" LINES
GORE AND SHORT SKIPS

STH 16
IH-94 (ON RAMP TO STH 16) TO , 7 MILES WEST OF STH 190
LANE LINES, YELLOW & WHITE EDGELINE, 8" LINES
GORE AND SHORT SKIPS



LEGEND

- NEW PAVEMENT MARKING
— EXISTING PAVEMENT MARKING



MARQUETTE INTERCHANGE
DETAIL A

PROJECT NO: 1000-77-09

HWY: I-794

COUNTY: MILWAUKEE

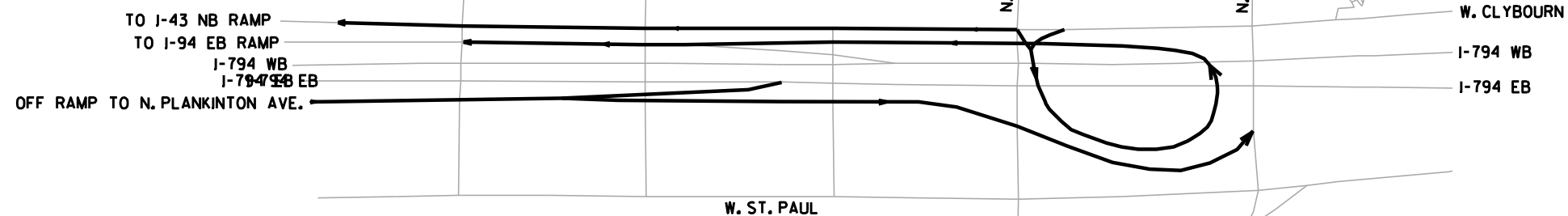
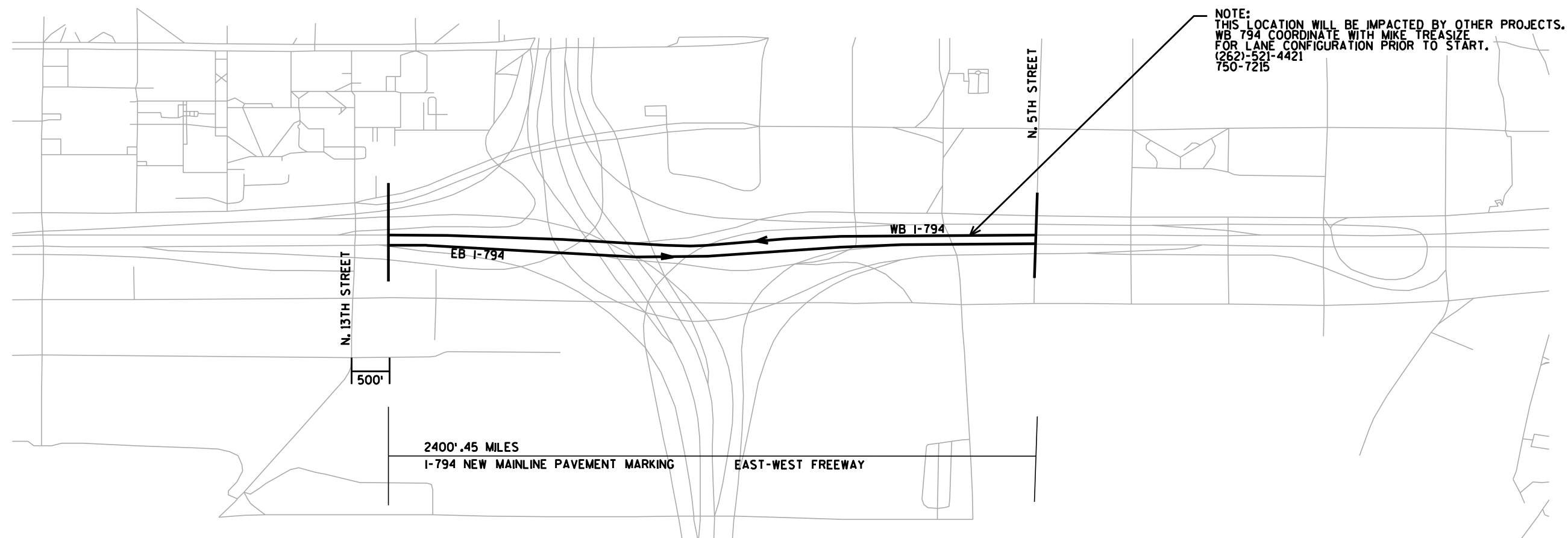
MILWAUKEE COUNTY

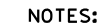
SHEET

E

LEGEND

- NEW PAVEMENT MARKING
— EXISTING PAVEMENT MARKING

MARQUETTE INTERCHANGE
DETAIL B



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

NOTE: DIAGONALS NOT PART OF THE CONTRACT

CONCRETE BARRIER

CONC. SHOULDER

ASPH. SHOULDER

45°

100'

50'

12.5' TYP.

37.5' TYPICAL

12'

12'

50'

VARIES

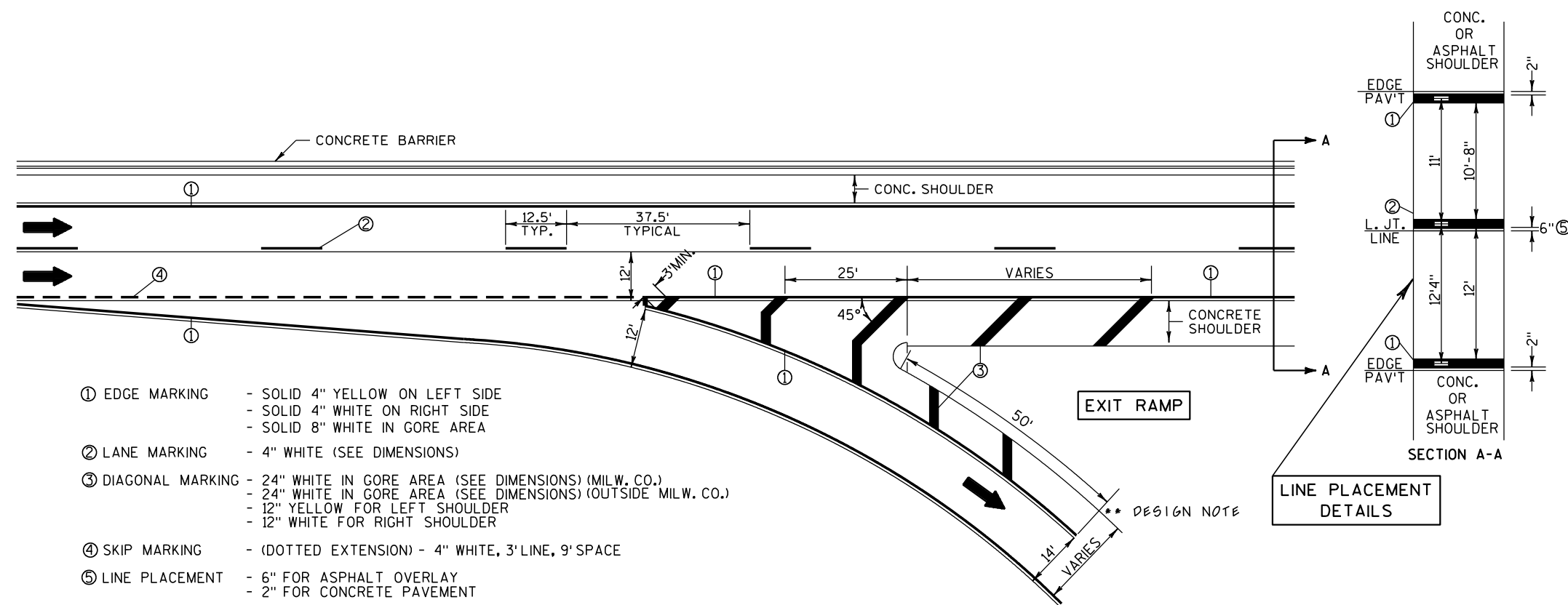
ENTRANCE RAMP

A-A

3-LANES WITH 1-LANE ENTRANCE AND EXIT RAMP

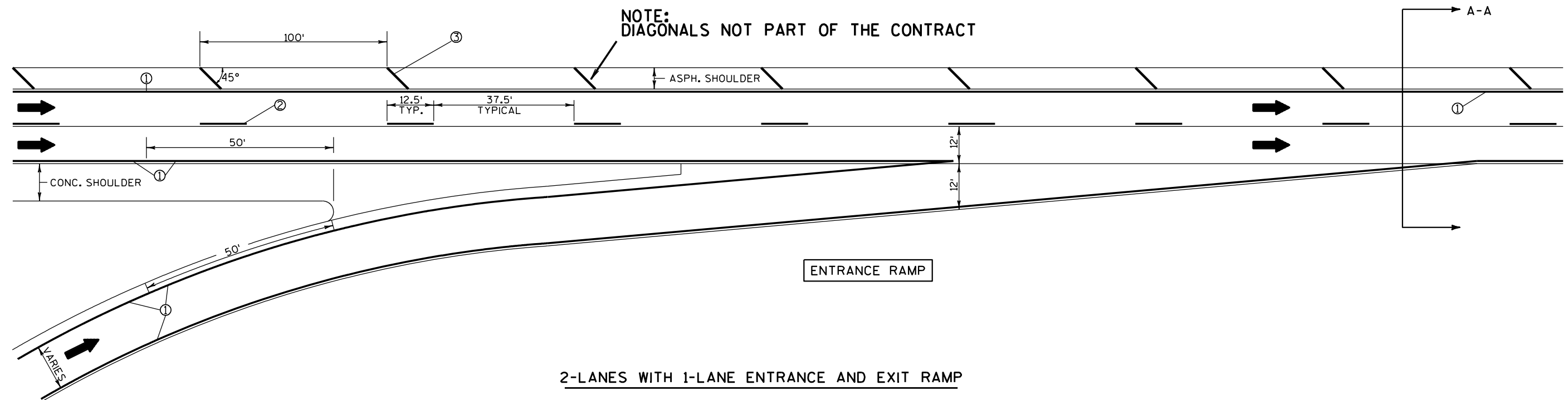
DESIGN NOTES ARE LOCATED ON LEVEL 63

GORES, FREEWAYS, & EXPRESSWAYS (EPOXY)



NOTES:

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



GORES, FREEWAYS, & EXPRESSWAYS (EPOXY)

PROJECT NO: 1000-77-09

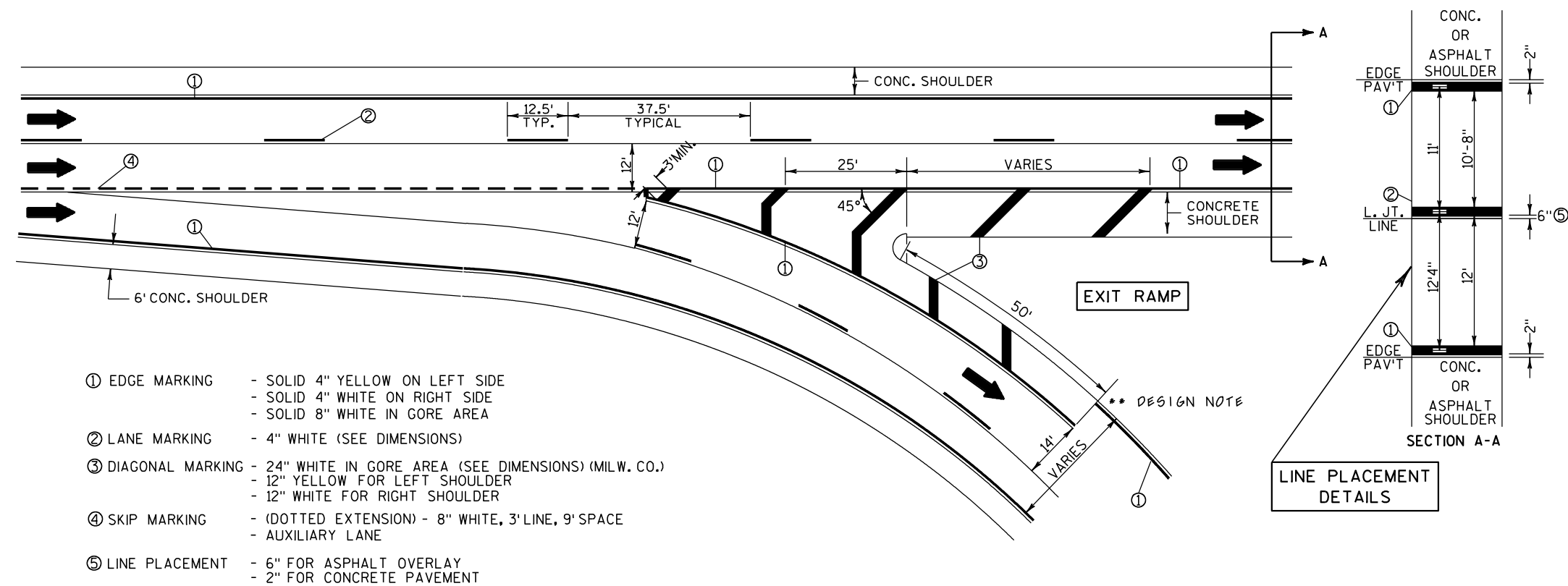
HWY: VARIES

COUNTY: MILWAUKEE

PAVEMENT MARKING, RAMPS

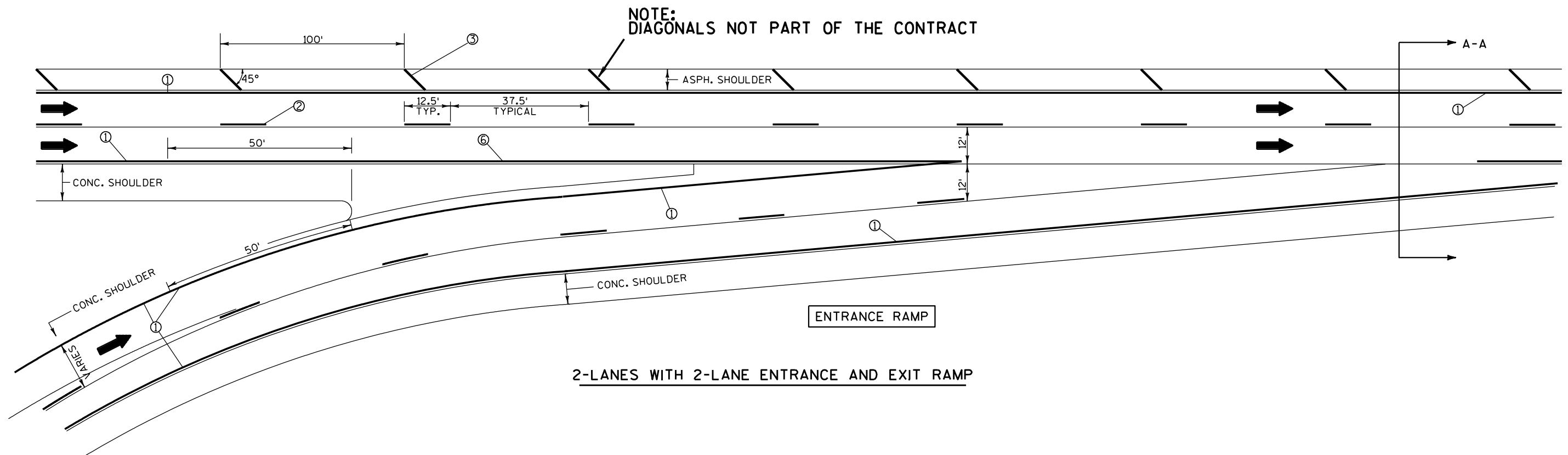
SHEET

E



NOTES:

1. THE 12" WIDE DIAGONAL SHOULDER MARKING SHALL BE USED ONLY WHERE THE ASPHALTIC CONCRETE SHOULDER ABUTS ASPHALTIC CONC. PAV'T. IF THERE ARE CONTINUOUS RUMBLE STRIPS, DO NOT USE DIAGONAL SHOULDER MARKING.
2. WHERE THE DOTTED EXTENSION OF THE RIGHT EDGE LINE IS SHOWN ON THE PLAN, IT SHALL BE 8" WIDE, WITH A LINE SKIP PATTERN CONSISTING OF A 3' LONG LINE AND A 9' SKIP.
3. PAVEMENT LANE MARKINGS SHALL BE LOCATED 6" OFF THE LONGITUDINAL JOINT OF THE UNDERLYING CONC. PAVEMENT.
4. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
5. SPOTTING FOR PAVEMENT LANE MARKINGS AND EDGE LINES SHALL BE 4"x4" PIECES OF REFLECTORIZED PAV'T MARKING TAPE SPACED AT 50' INTERVALS, INCIDENTAL TO PAV'T MARKING.
6. SEE STANDARD DETAIL DRAWING FOR RAISED PAVEMENT MARKERS IN GORE AND LINE WIDTH TOLERANCES.



2-LANES WITH 2-LANE ENTRANCE AND EXIT RAMP

GORES, FREEWAYS, & EXPRESSWAYS (EPOXY)

PROJECT NO: 1000-77-09

HWY: VARIES

COUNTY: MILWAUKEE

PAVEMENT MARKING, RAMPS

SHEET

E

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PLOT DATE : 06-NOV-2012 08:48

PLOT BY : dotbgw

PLOT NAME :

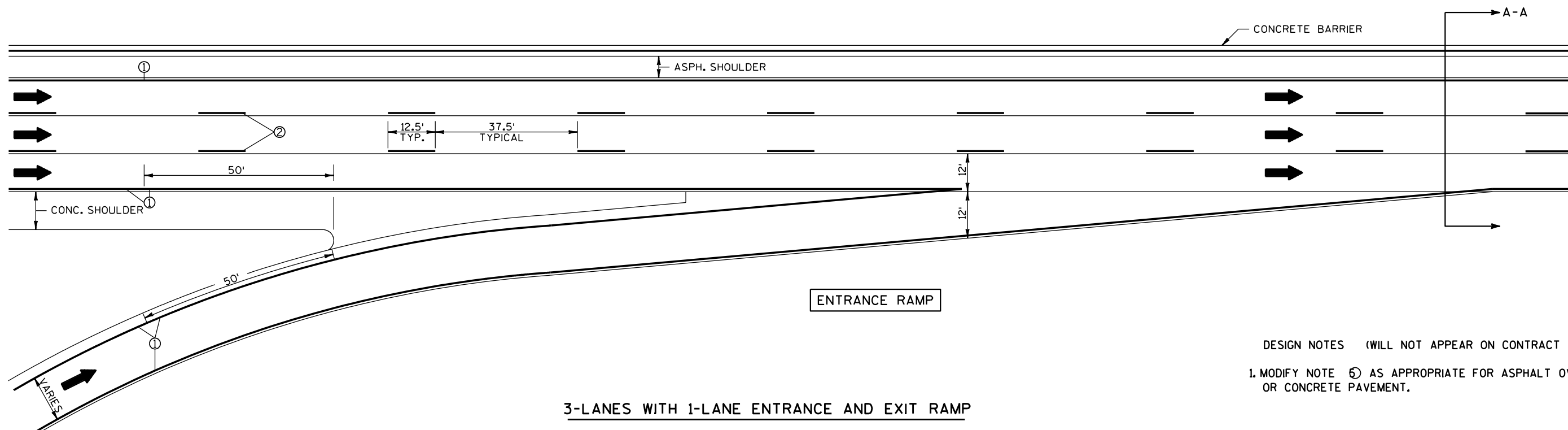
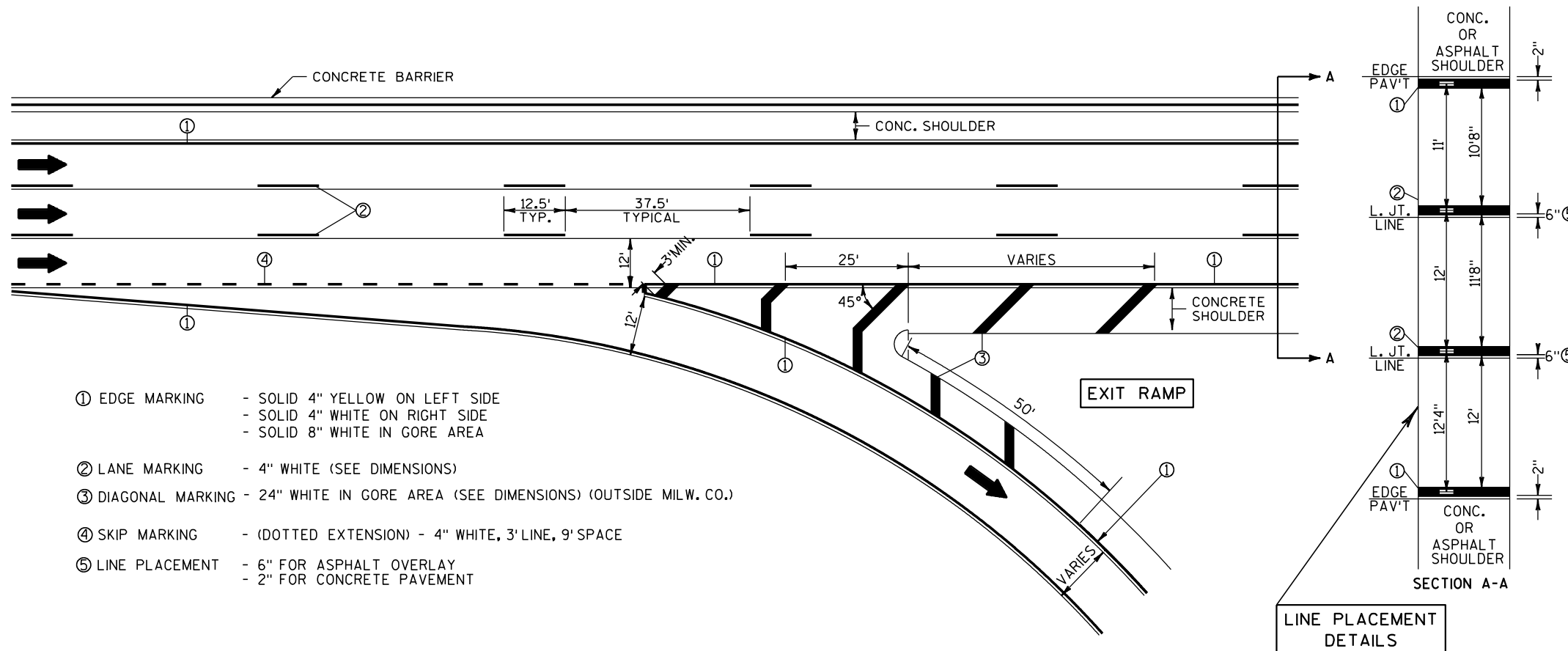
PLOT SCALE : 200:1

WISDOT/CADDs SHEET 42

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.
5. SEE STANDARD DETAIL DRAWING FOR RAISED PAVEMENT MARKERS IN GORE AND LINE WIDTH TOLERANCES.



DESIGN NOTES (WILL NOT APPEAR ON CONTRACT PLANS)

1. MODIFY NOTE ⑤ AS APPROPRIATE FOR ASPHALT OVERLAY OR CONCRETE PAVEMENT.

GORES, FREEWAYS, & EXPRESSWAYS

PROJECT NO: 1000-77-09

HWY: VARIES

COUNTY: OUTSIDE MILWAUKEE CO.

EPOXY PAVEMENT MARKING, RAMPS

SHEET

E

FILE NAME : j:\projects\d2_pavmark\d2_10007709\PMGORE.DGN

PLOT DATE : 06-NOV-2012 08:48

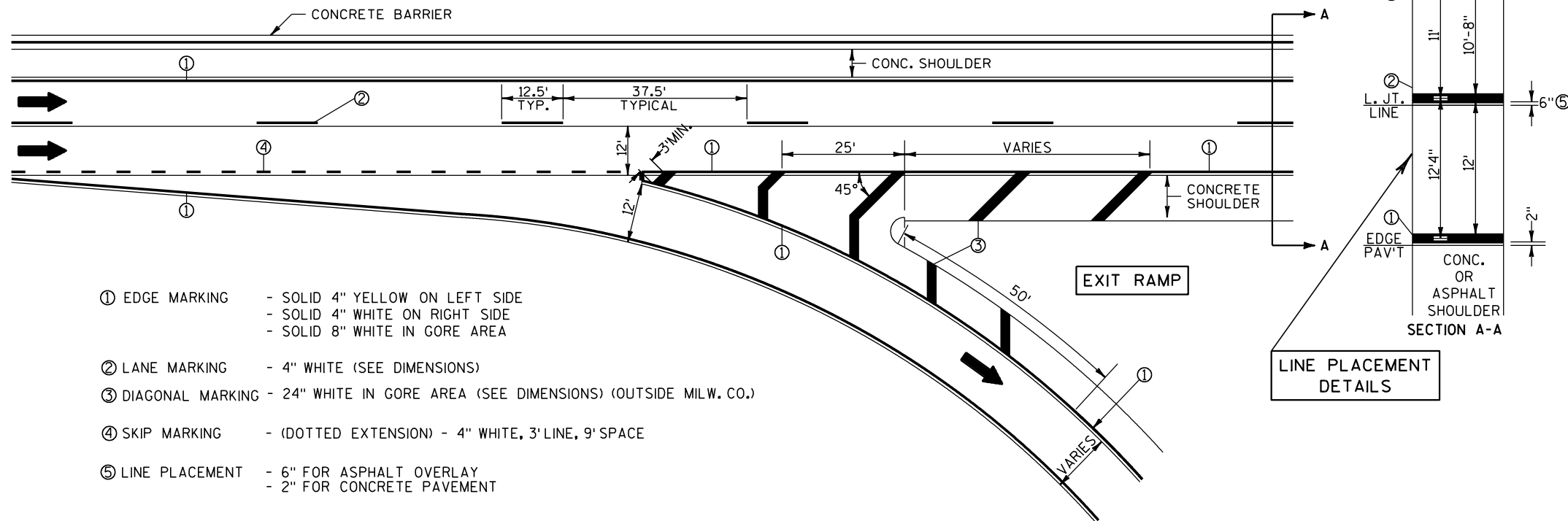
PLOT BY : dotbgw

PLOT NAME :

PLOT SCALE : 200:1

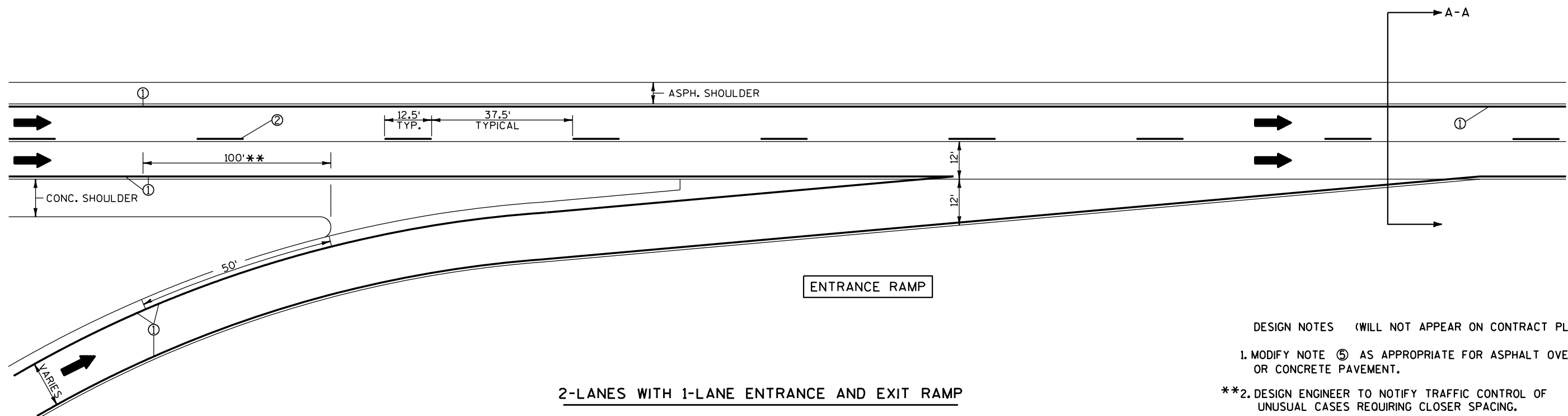
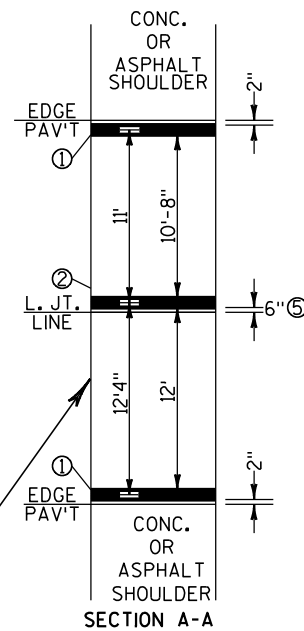
WISDOT/CADD SHEET 42

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.
5. SEE STANDARD DETAIL DRAWING FOR RAISED PAVEMENT MARKERS IN GORE AND LINE WIDTH TOLERANCES.

LINE PLACEMENT
DETAILS

DESIGN NOTES (WILL NOT APPEAR ON CONTRACT PLANS)

1. MODIFY NOTE ⑤ AS APPROPRIATE FOR ASPHALT OVERLAY OR CONCRETE PAVEMENT.
- **2. DESIGN ENGINEER TO NOTIFY TRAFFIC CONTROL OF UNUSUAL CASES REQUIRING CLOSER SPACING.

2-LANES WITH 1-LANE ENTRANCE AND EXIT RAMP

GORES, FREEWAYS, & EXPRESSWAYS

PROJECT NO: 1000-77-09

HWY: VARIES

COUNTY: OUTSIDE MILWAUKEE CO.

EPOXY PAVEMENT MARKING, RAMPS

SHEET

E

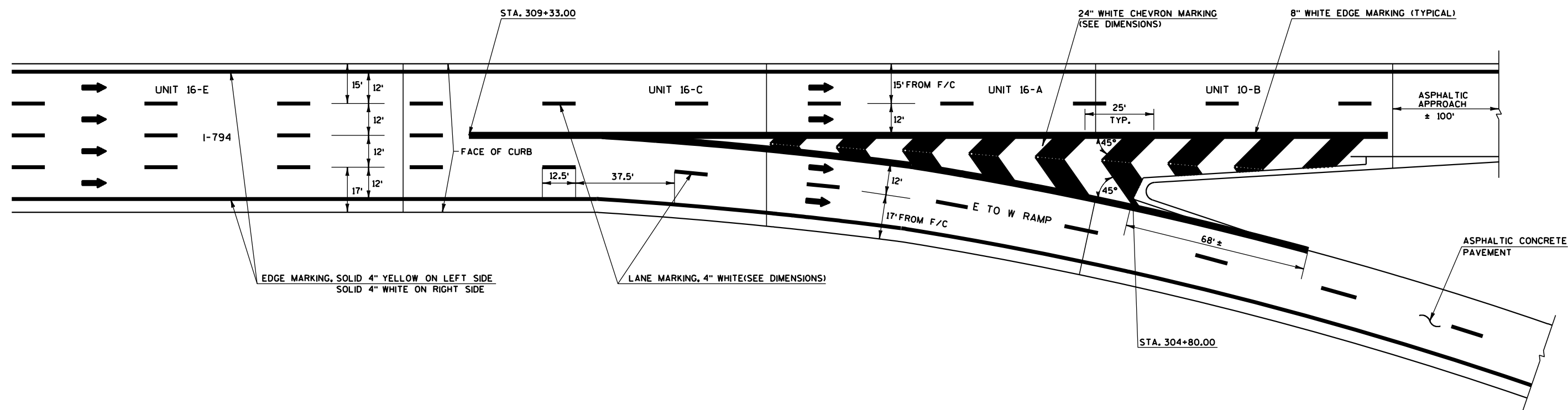
NOTES: PAVEMENT LANE MARKINGS AND EDGE LINES SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

GORE MARKING SHALL BE PROVIDED AT ALL LOCATIONS AND SHALL DUPLICATE THE EXISTING GORE MARKINGS BEFORE RESURFACING OR AS DIRECTED BY THE ENGINEER.

ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.

SPOTTING FOR PAVEMENT LANE MARKINGS AND EDGE LINES SHALL BE 4" X 4" PIECES OF REFLECTORIZED PAV'T MARKING TAPE SPACED AT 50' INTERVALS.

TEMPORARY PAVEMENT MARKING SHALL BE IN PLACE PRIOR TO COMPLETION OF FINAL ROLLING OF THE BINDER COURSE.



MAJOR SPLIT FREEWAY TO FREEWAY

PROJECT NO: 1000-77-09

HWY: VARIES

COUNTY: VARIES

EPOXY PAVEMENT MARKING DETAIL

SHEET

E

FILE NAME : j:\projects\d2_pavmark\d2_10007709\PMGORE.DGN

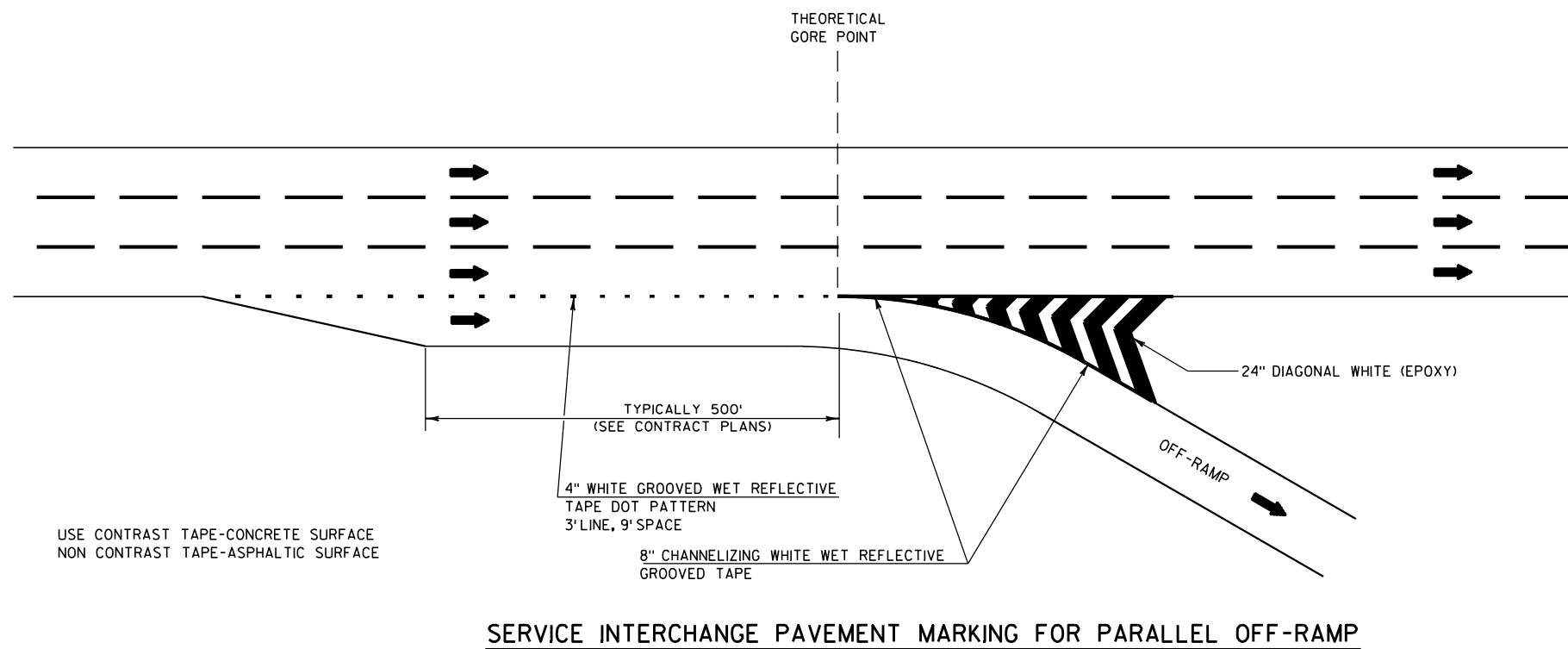
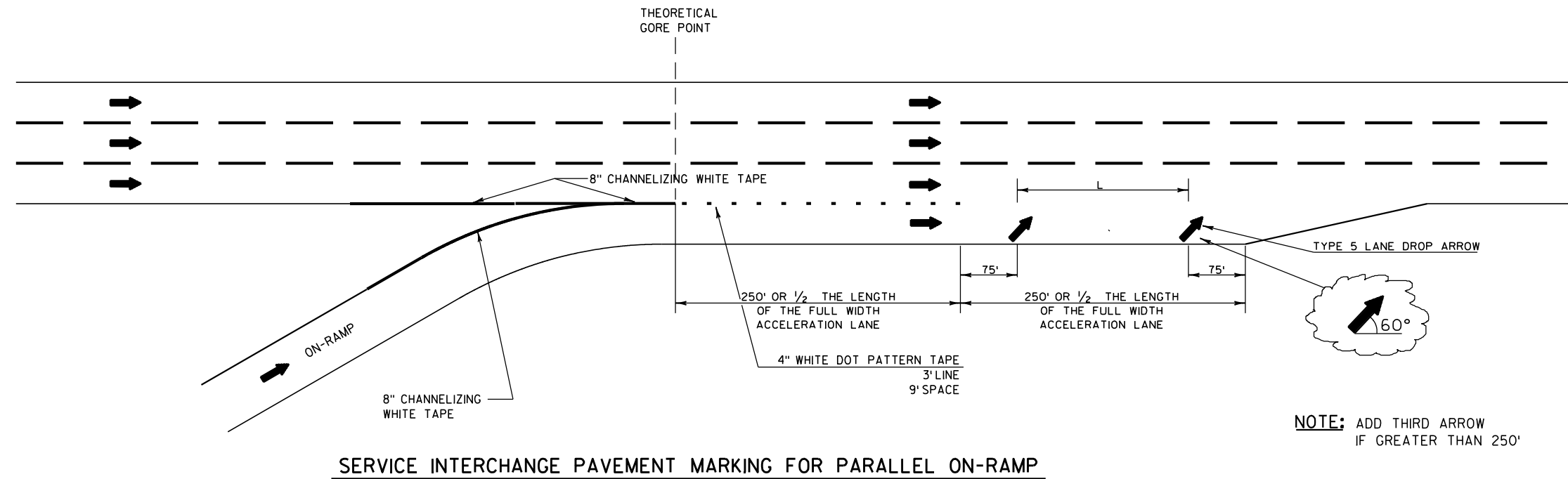
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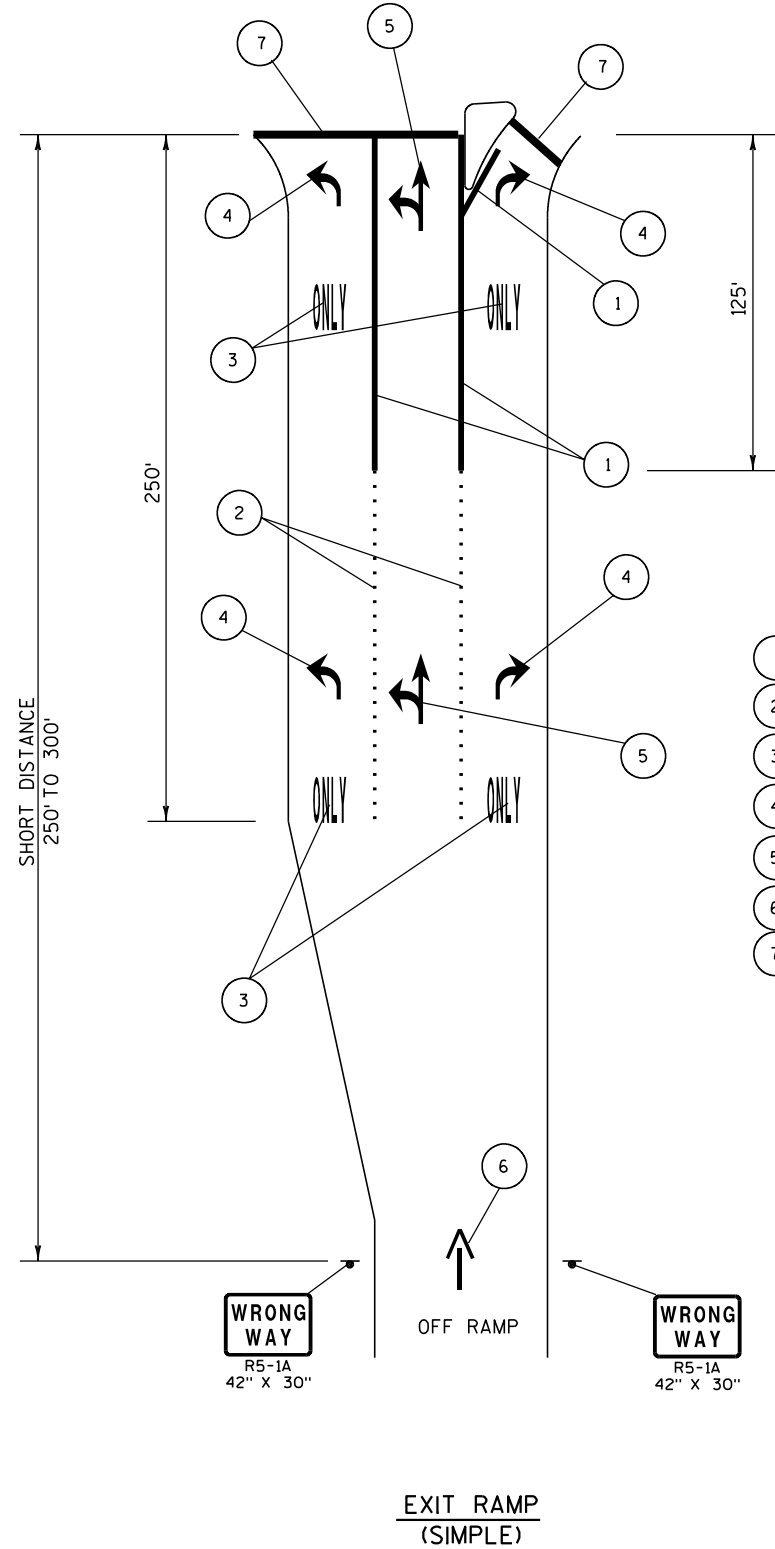
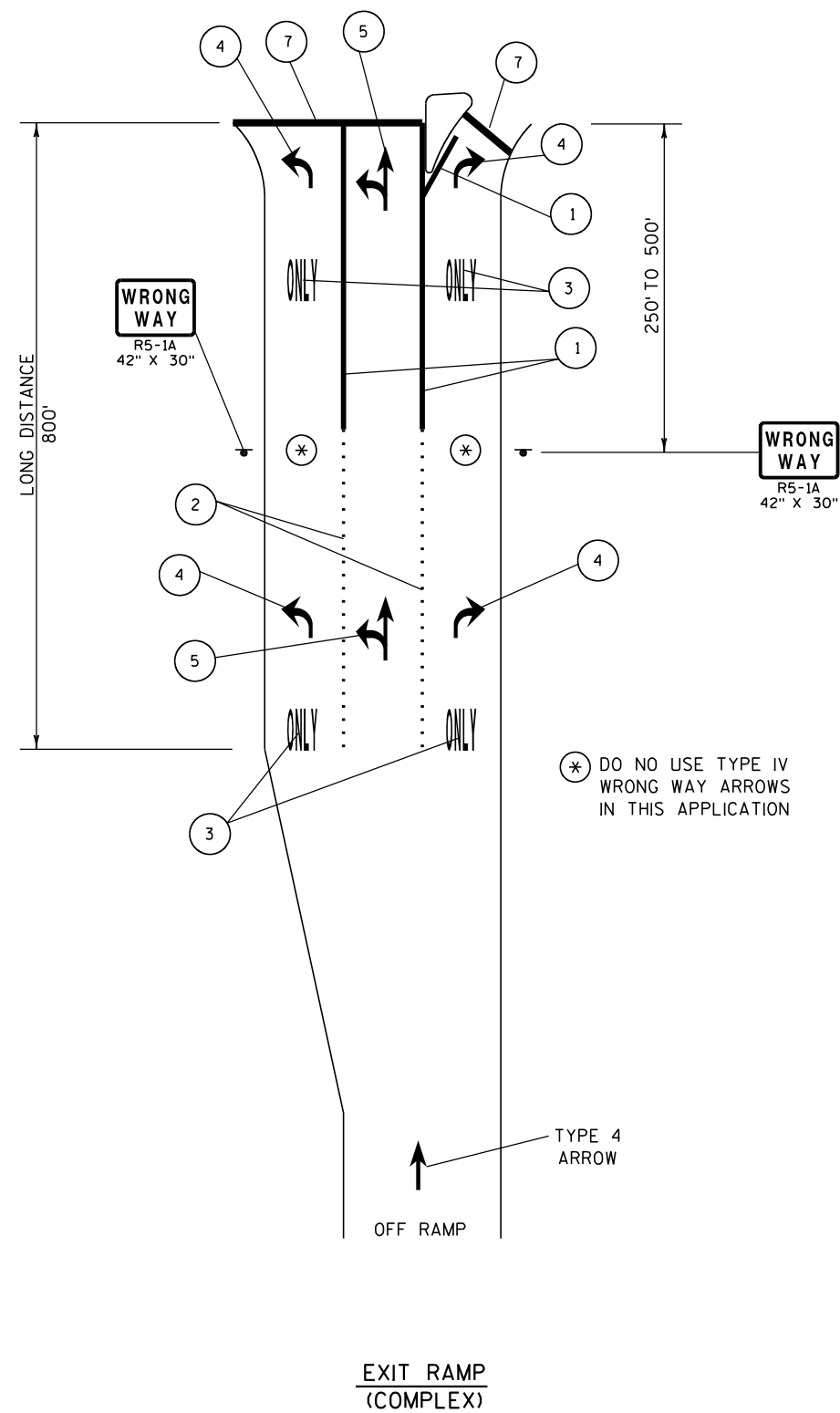
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PLOT NAME :

PLOT SCALE : 200:1

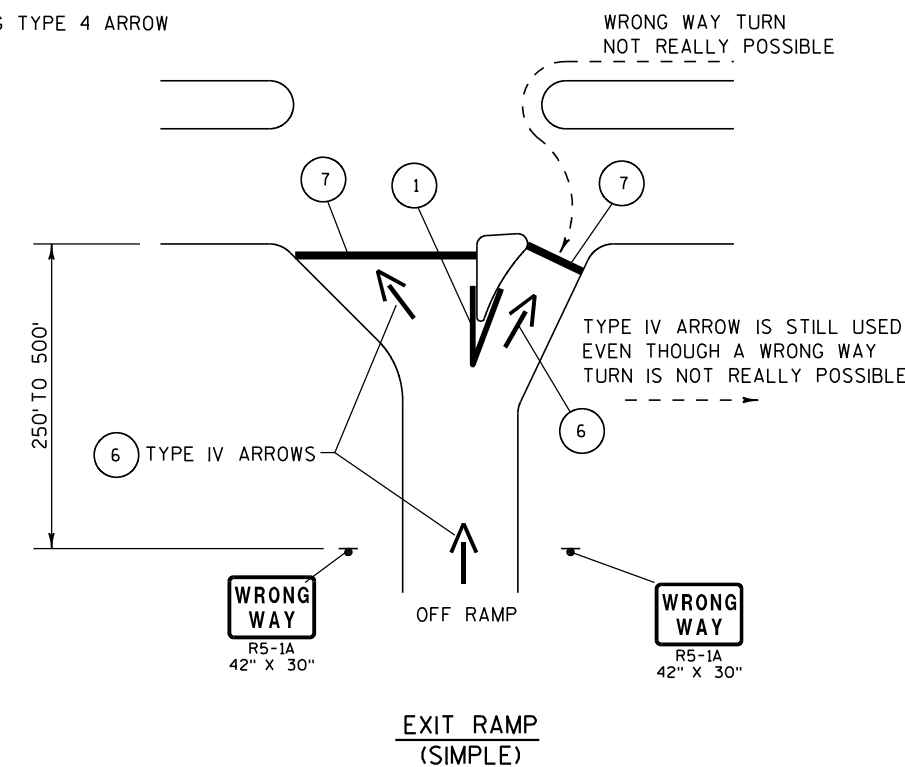
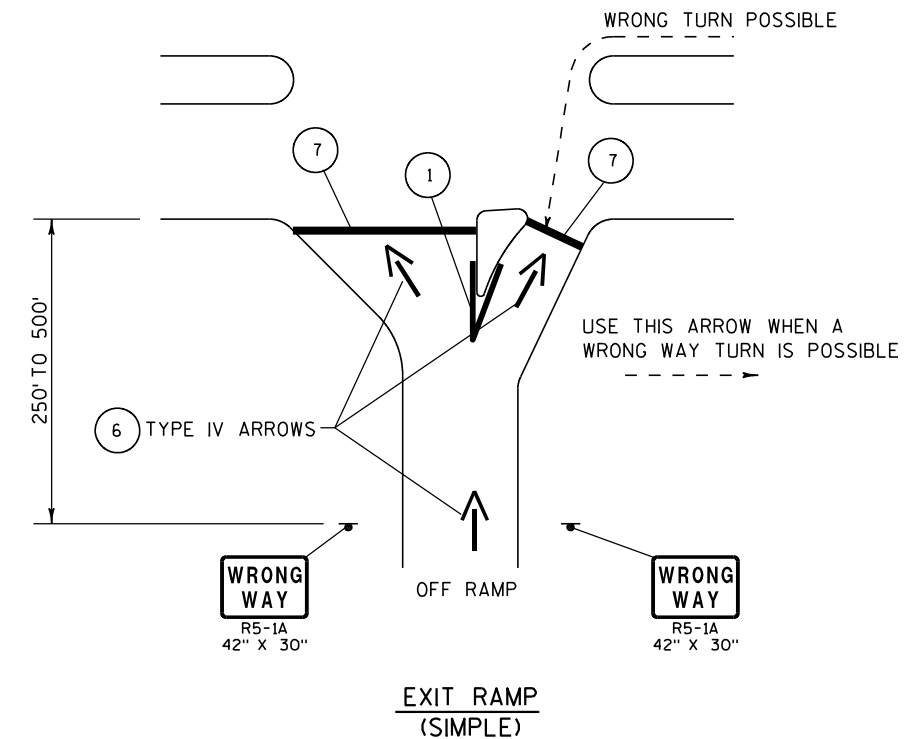
WISDOT/CADDs SHEET 42

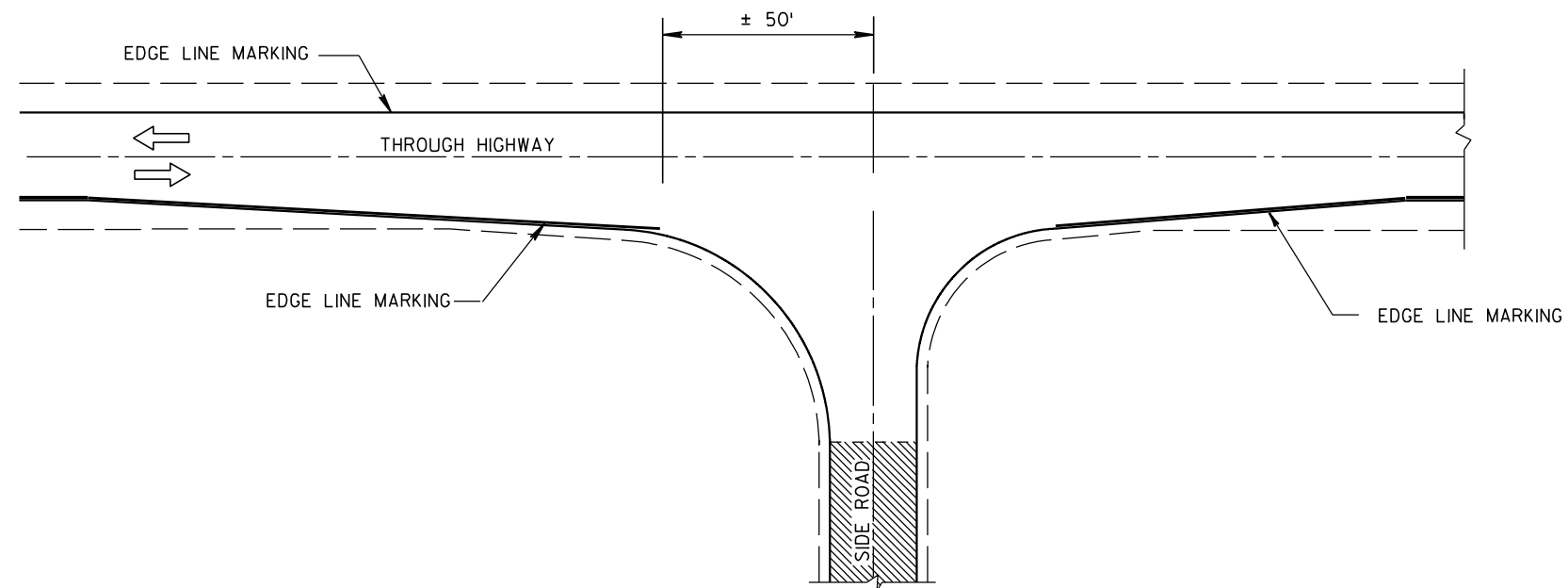




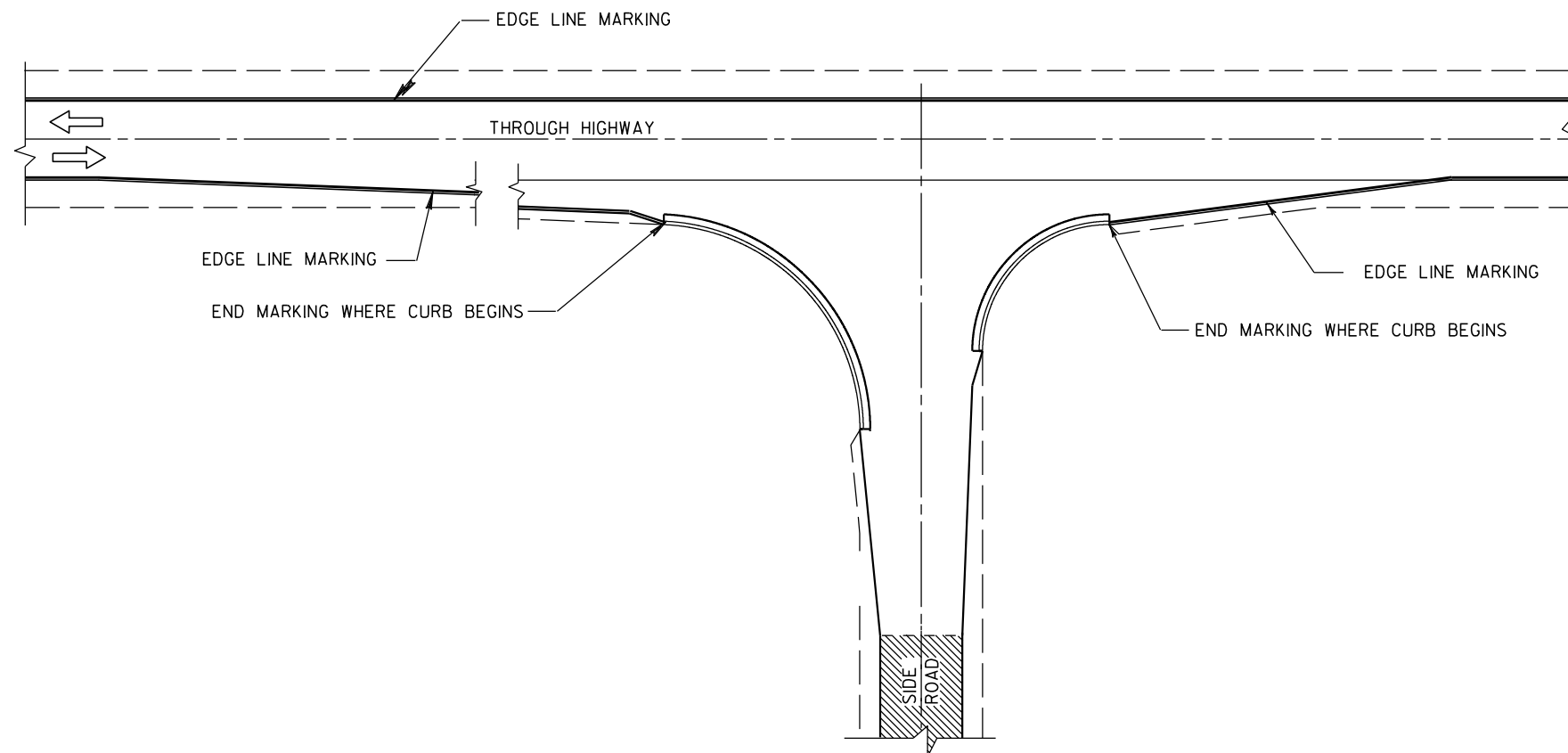
LEGEND

- 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

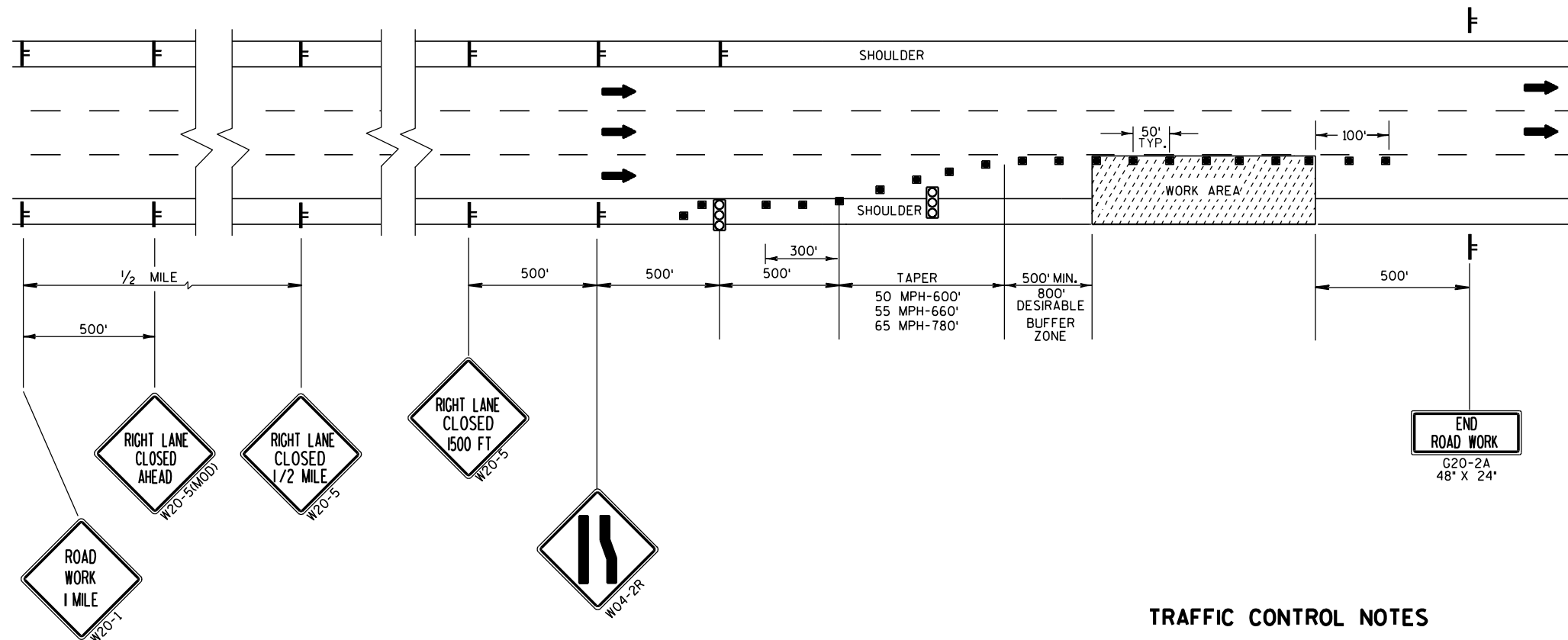




MINOR INTERSECTION WITHOUT CURBS
(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)

TYPICAL ONE-LANE CLOSURE (SHORT TERM-3 DAYS OR LESS)**LEGEND**

- DRUM
- ⌋ SIGN ON FIXED SUPPORT
- ⌋ SIGN ON TEMPORARY SUPPORT
- ⊞ ARROW BOARD

TRAFFIC CONTROL NOTES

RIGHT LANE CLOSURE SHOWN, LEFT LANE CLOSURE SIMILAR.

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

FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A WARNING LIGHT, TYPE C (STEADY BURN).

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

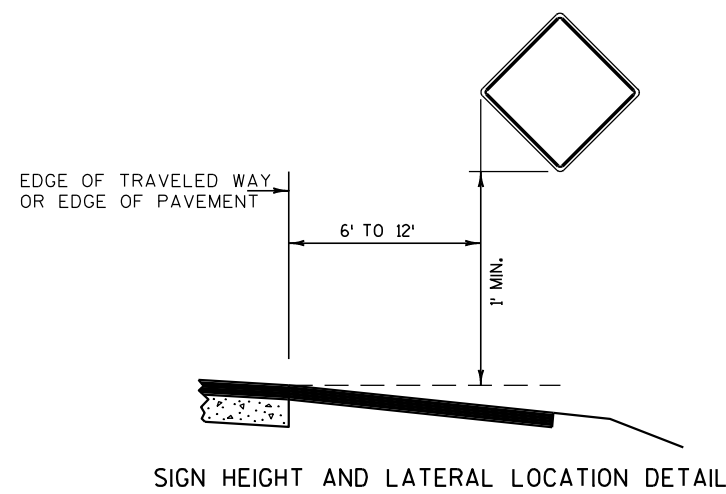
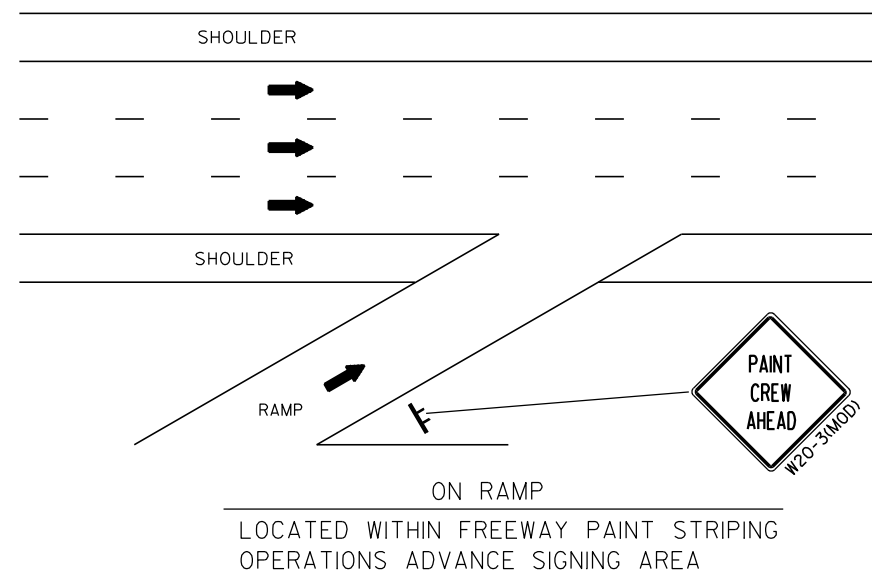
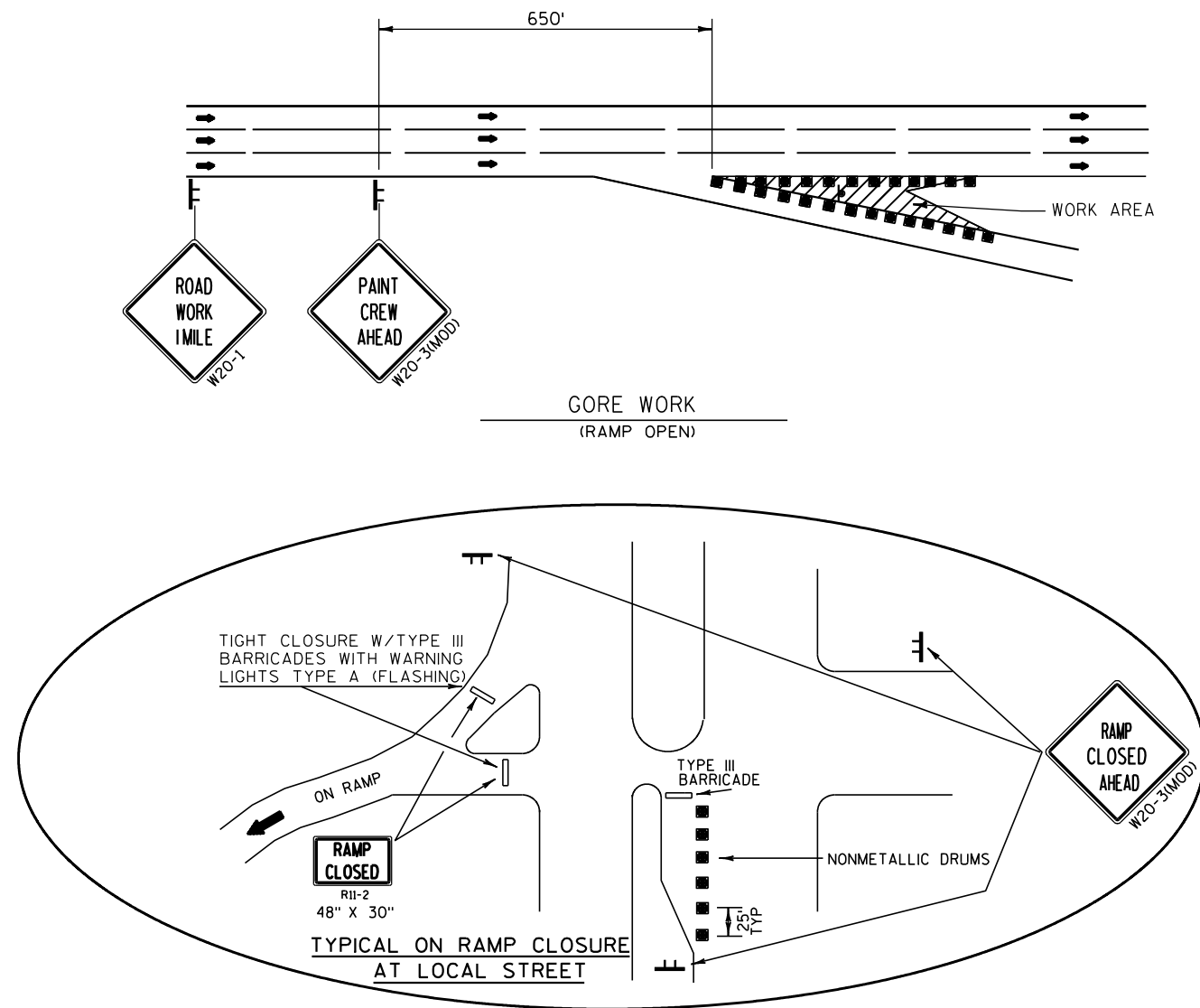
"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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

ALL SHORT TERM LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL ARROWBOARDS AND DEVICES REMOVED BEYOND THE SHOULDER WHEN THE WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO A SAFE OPERATING CONDITION.

IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1000' ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROWBOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500' IN FRONT OF DRUMS.



GENERAL NOTES FOR TRAFFIC CONTROL

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

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

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

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

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

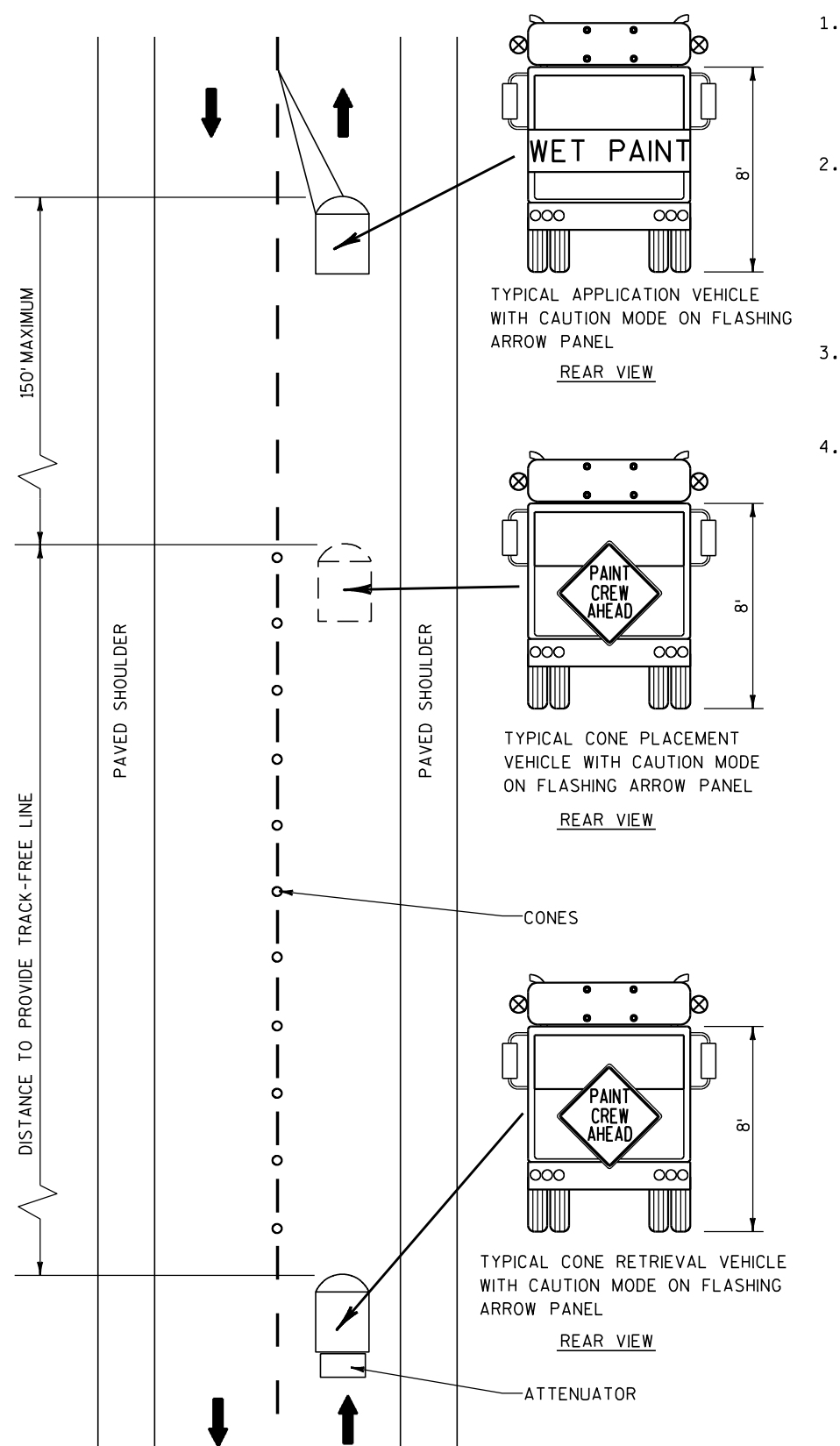
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROWBOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500' IN FRONT OF DRUMS.

SPECIAL APPLICATION NOTES

ALL LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL ARROWBOARDS AND DEVICES REMOVED BEYOND THE SHOULDER WHEN THE WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO A SAFE OPERATING CONDITION.

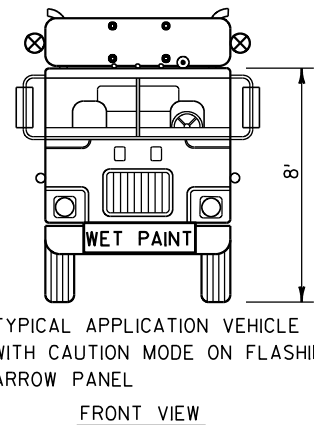
LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DEVICE

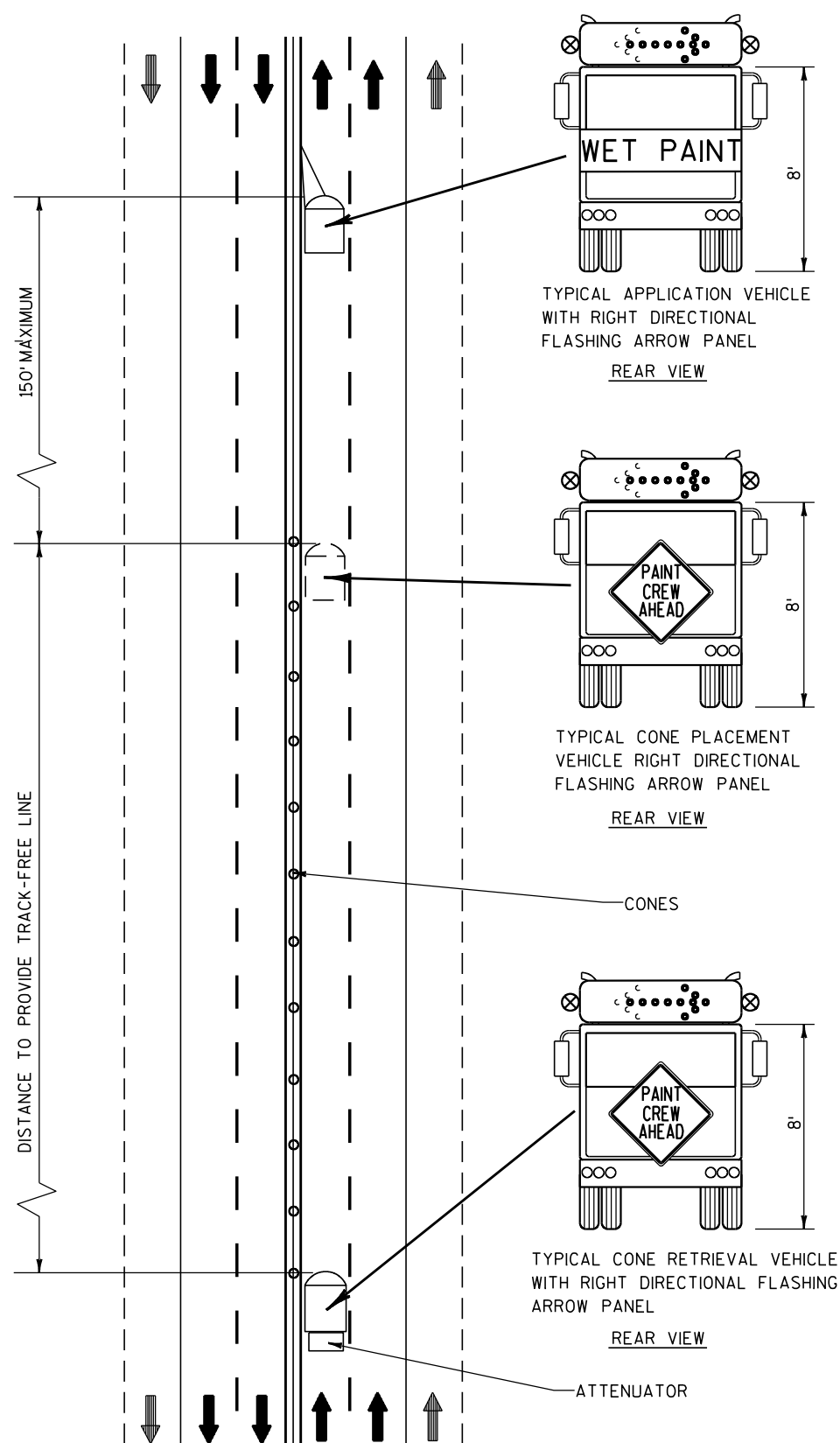


2-LANE 2-WAY ROADWAY CENTERLINE

1. ALL VEHICLES SHALL BE EQUIPPED WITH ROTATING YELLOW BEACONS OR STROBE LIGHTS MOUNTED SUCH THAT AT LEAST ONE CAN BE SEEN FROM ANY APPROACH ANGLE.
2. THE APPLICATION VEHICLE SHALL BE EQUIPPED WITH FRONT AND REAR FACING TYPE A OR B FLASHING ARROW PANELS OPERATING IN CAUTION MODE. ALL SUBSEQUENT VEHICLES SHALL BE EQUIPPED WITH A REAR FACING TYPE A OR B FLASHING ARROW PANEL.
3. THE APPLICATION VEHICLE SHALL BE EQUIPPED WITH "WET PAINT" SIGNS FRONT AND REAR.
4. THE CONE PLACEMENT VEHICLE AND CONE RETRIEVAL VEHICLE SHALL BE EQUIPPED WITH A "PAINT CREW AHEAD" SIGN AND A REAR FACING FLASHING ARROW PANEL OPERATING IN CAUTION MODE.



FRONT VIEW



4 OR 6 LANE 2-WAY ROADWAY CENTERLINE

1. ALL VEHICLES SHALL BE EQUIPPED WITH ROTATING YELLOW BEACONS OR STROBE LIGHTS MOUNTED SUCH THAT AT LEAST ONE CAN BE SEEN FROM ANY APPROACH ANGLE.
2. ALL VEHICLES SHALL BE EQUIPPED WITH A TYPE A OR B FLASHING ARROW PANEL.
3. THE APPLICATION VEHICLE SHALL BE EQUIPPED WITH "WET PAINT" SIGNS FRONT AND REAR AND A RIGHT DIRECTIONAL FLASHING ARROW PANEL FACING THE REAR.
4. THE CONE PLACEMENT VEHICLE AND CONE RETRIEVAL VEHICLE SHALL BE EQUIPPED WITH A "PAINT CREW AHEAD" SIGN AND A REAR FACING RIGHT DIRECTIONAL FLASHING ARROW PANEL.

DATE 31JAN13			E S T I M A T E O F Q U A N T I T I E S		
LINE					1000-77-09
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	619.1000	MOBILIZATION	EACH	1.000	1.000
0020	643.0100	TRAFFIC CONTROL (PROJECT) 01.	EACH	1.000	1.000
0030	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	1,076,744.000	1,076,744.000
0040	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	153,031.000	153,031.000
0050	646.0600	REMOVING PAVEMENT MARKINGS	LF	1,500.000	1,500.000
0060	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	500.000	500.000
0070	647.0746	PAVEMENT MARKING DIAGONAL EPOXY 24-INCH	LF	4,500.000	4,500.000

Epoxy Pavement Marking - 2013
Var. Hwy (1000-77-09)
SE Region

Category: 0100

				646.0106 PAVT Marking, EPOXY 4-IN				646.0126 EPOXY		677.0726 EPOXY	647.0746 EPOXY	646.0600
				4-INCH	4-INCH	4-INCH	4-INCH	8- INCH		12-INCH	24-INCH	REMOVING
				Yellow	White	Lane	Mini			12"	24"	PAVEMENT
			Total	Edge Line	Edgeline	Line	Skips	Gores	Mini Skips	Diagonal	Diagonal	MARKING
County	Hwy	Location	Miles	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.
Milwaukee	I-794	Marq. Inter. I794 (I43 under pass) east- west freeway to 5th str.(under pass), (*), (**)	0.35	12,000	12,000	1,400	500	2,500	100		2,000	
Walworth	USH 12	STH 67 to CTH H	19.4	233325	238024	50139	1534	26,000				
Waukesha	STH 16 (bypass)	16 (@ 16/67 inter) to Jefferson Co. line	5.5	63,042	63,517	13,813	96	10,667				
Waukesha	STH 16	2100' East of CTH KC/E to 4500' West of CTH C	5	64,100	64,207	12,750	924	14,150				
Waukesha	STH 16	IH 94 (on ramp to STH 16) to .7 miles west of STH 190	3.6	47,100	38,649	9,438	950	7288				
Walworth	STH 50	Grand Geneva Way to Keno. West Co. Line	5.4	55,652	52,062	14,238		52,062	10399			
				475,219	468,459	101,778	4,004	112,667	10,499	0	2,000	0
		subtotals	39.25	1,049,460				123,166			2,000	
		Undistribute quantities		27284				29865		500	2500	1500
		Totals		1,076,744				153,031		500	4,500	1,500

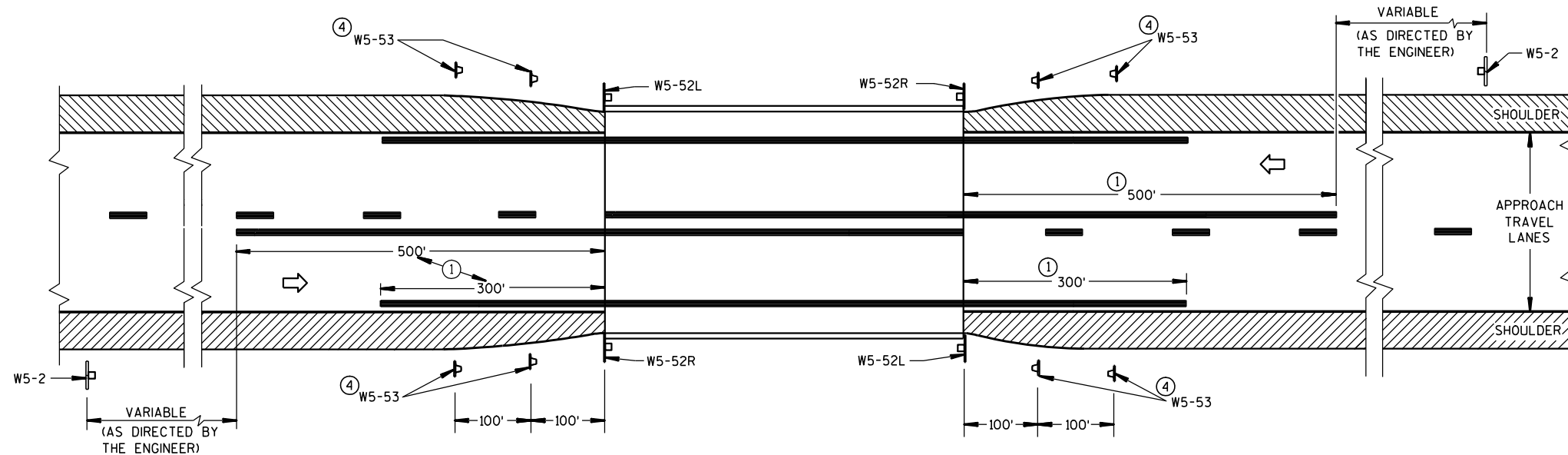
NOTE: ALL E/L MARKINGS ON EXIT RAMPS(FROM FREEWAY TO TERMINI) AND ENTRANCE RAMPS (FROM TERMINI TO FREEWAY).
SHALL BE EPOXY WITH 4" (YELLOW & WHITE) MARKINGS WHERE APPLICABLE.

NOTE: PROVIDE 4" MINI-SKIPS AT EXIT RAMPS WHERE APPLICABLE.

(*) Incl. all in coming (IH 43 SB / IH 94 WB) interchange ramps and out going (IH 43 NB /IH94 EB) interchange ramps
(**) Incl. Plankinton **off ramp** & W Clybourn (N 2nd str) **on ramp** segments

Standard Detail Drawing List

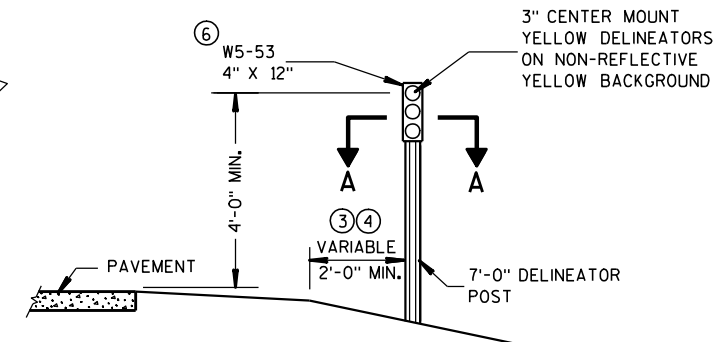
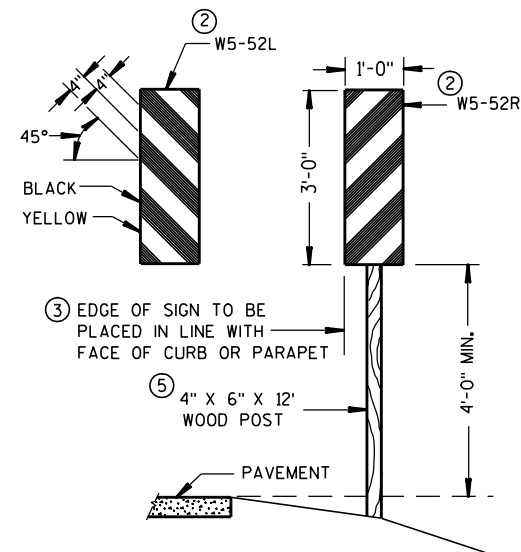
15C06-05	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-14A	PAVEMENT MARKING (MAINLINE)
15C08-14B	PAVEMENT MARKING (INTERSECTIONS)
15C08-14F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C19-01C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)



SITUATION 1

WARRANTING CRITERION:

BRIDGE WIDTH IS AT LEAST 18 FEET BUT LESS THAN 24 FEET



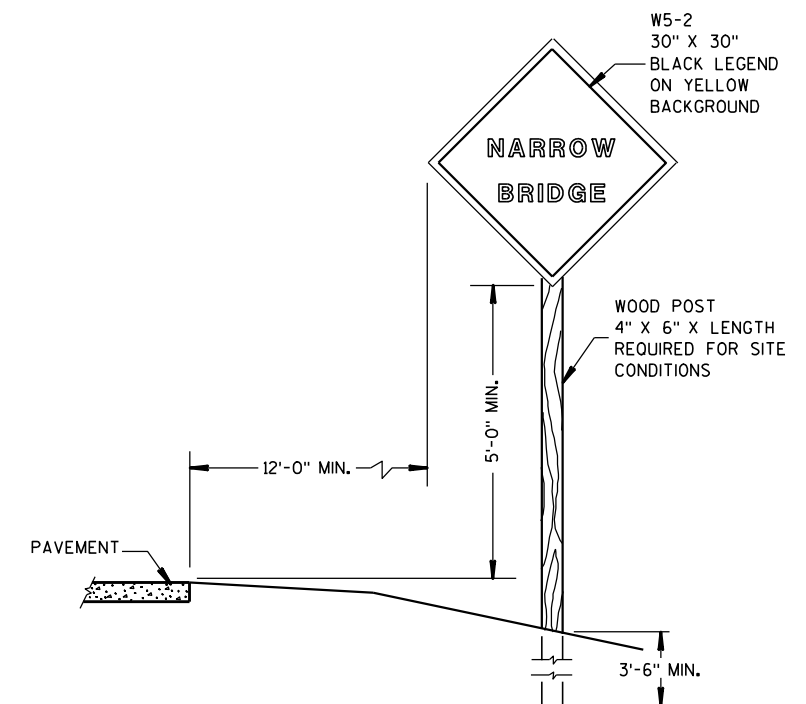
OBJECT MARKER PLACEMENT

GENERAL NOTES

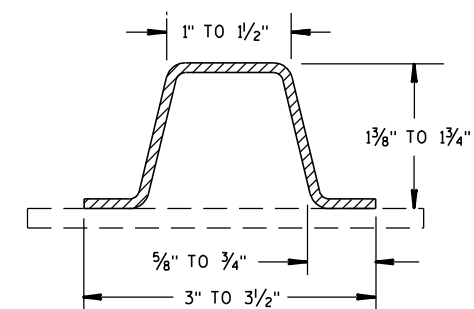
DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

PAVEMENT MARKING SHOWN ON THIS DRAWING IS NOT REQUIRED UNLESS OTHERWISE SPECIFIED IN THE CONTRACT. WHEN SPECIFIED, PAVEMENT MARKING SHALL CONFORM TO THIS DRAWING AND OTHER CONTRACT REQUIREMENTS.

- ① MINIMUM DISTANCE UNLESS OTHERWISE SHOWN ON THE PLAN.
- ② FACE OF OBJECT MARKERS W5-52R AND W5-52L SHALL BE COVERED WITH TYPE H REFLECTIVE SHEETING.
- ③ LOCATE OBJECT MARKER POST(S) BEHIND GUARDRAIL WHEN PRESENT.
- ④ OBJECT MARKERS (W5-53) SHALL BE LOCATED ALONG A LINE FLARED AWAY FROM THE BRIDGE CORNER TO DELINEATE THE NARROWING OF THE SHOULDER OR BERM.
- ⑤ A 12 FOOT DELINEATOR POST MAY BE USED INSTEAD OF A WOOD POST.
- ⑥ NON-BID ITEM. INCIDENTAL TO OTHER ITEMS.



SIGN PLACEMENT



SECTION A-A

(MINIMUM WEIGHT 1.9 LBS. PER FT. AFTER GALVANIZING)

SIGNING & MARKING FOR TWO LANE BRIDGES

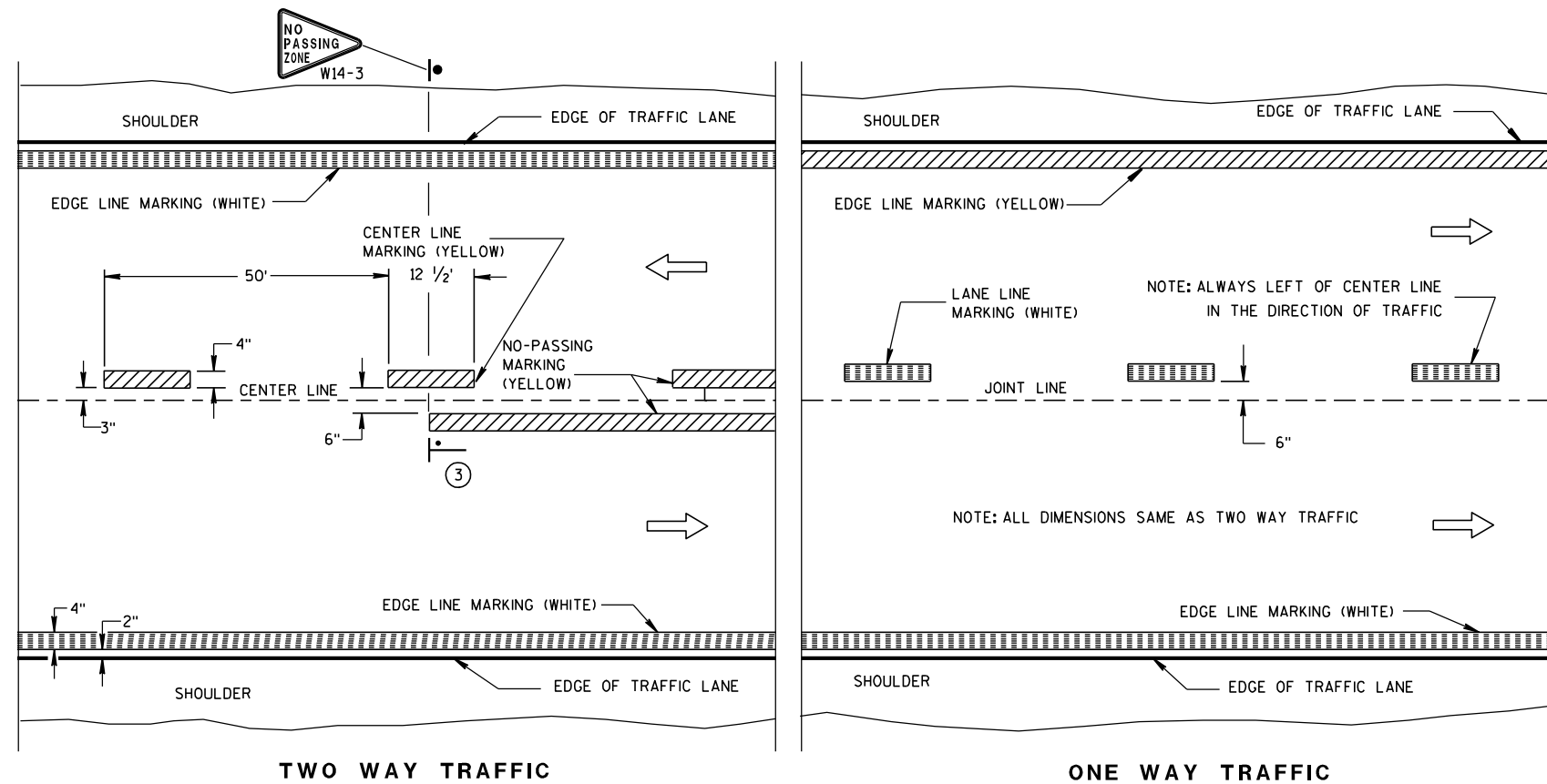
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

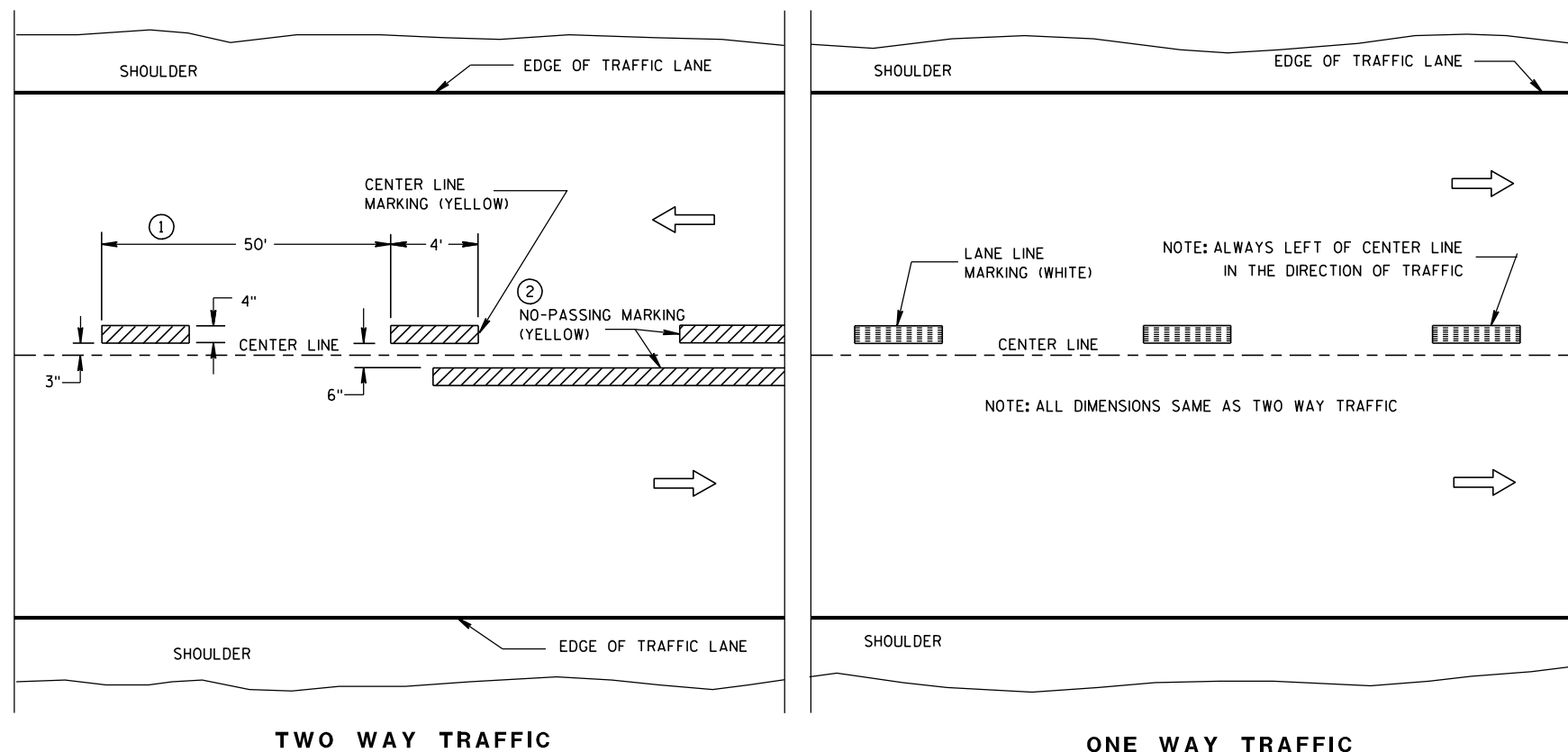
9/5/06
DATE

FHWA

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



PERMANENT PAVEMENT MARKING



TEMPORARY (INTERMEDIATE) PAVEMENT MARKING


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

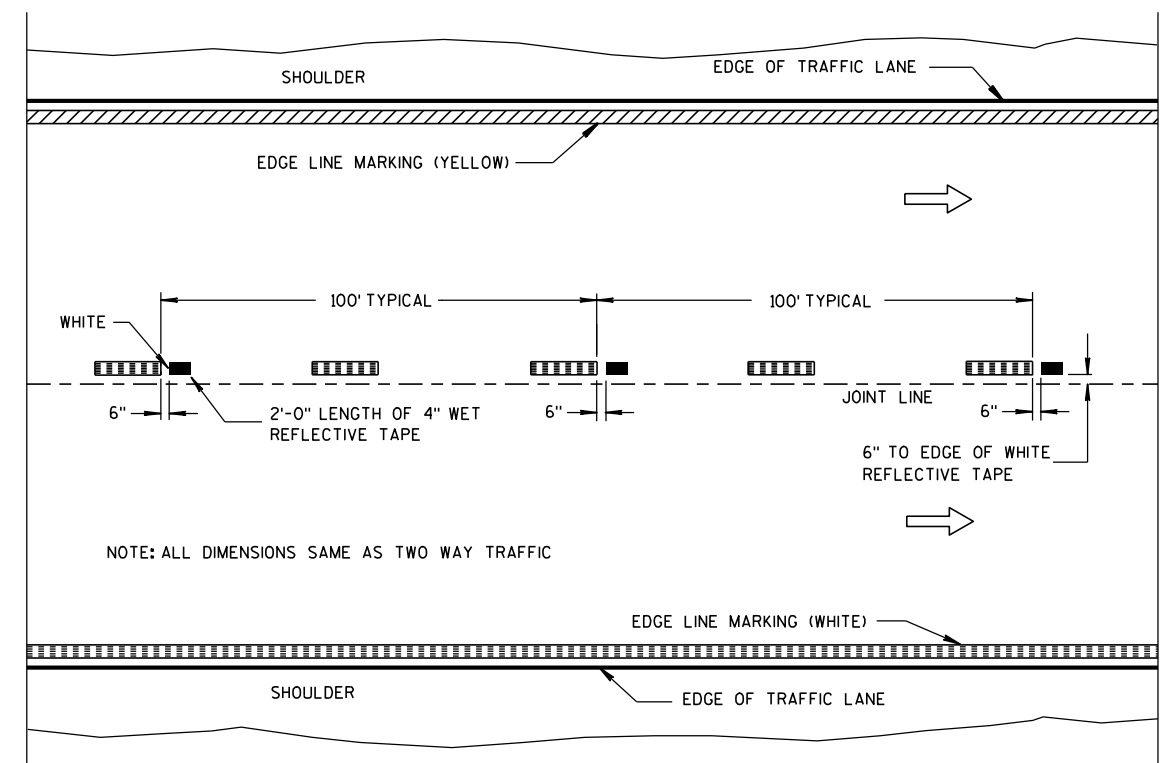
GENERAL NOTES

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.


NOTE

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL



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

LEGEND

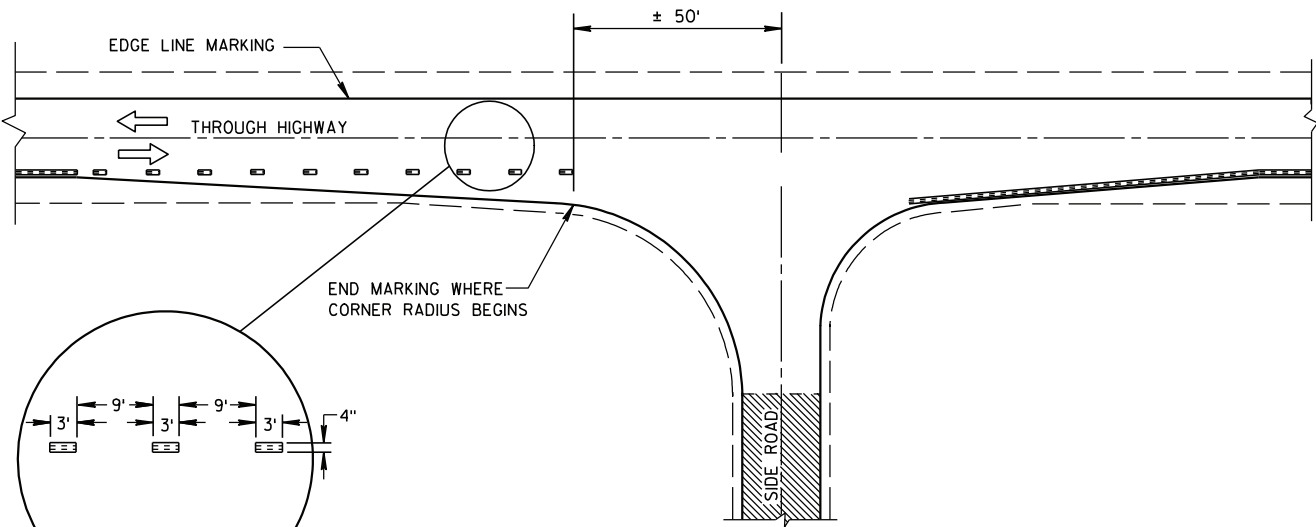
 "T" MARKING

● POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

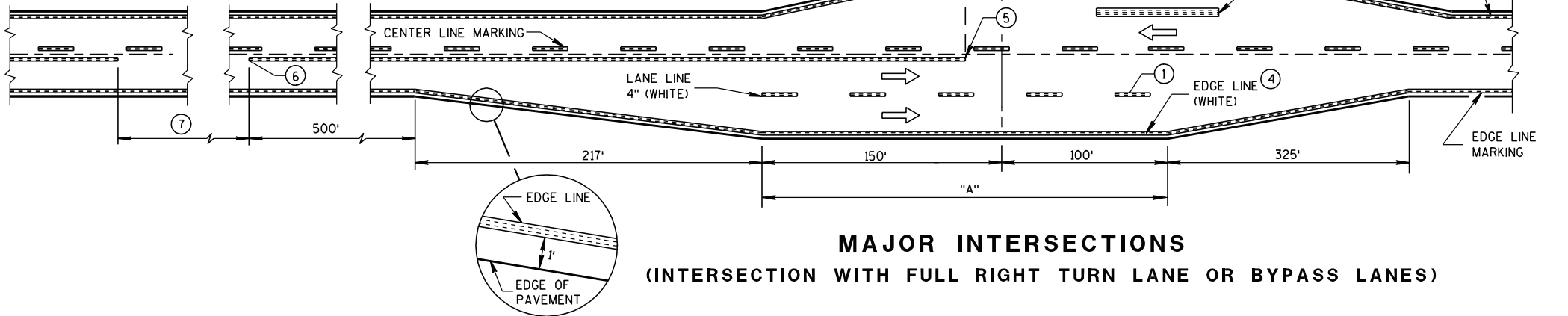
APPROVED
6-23-II /S/ Thomas N. Notbohm
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



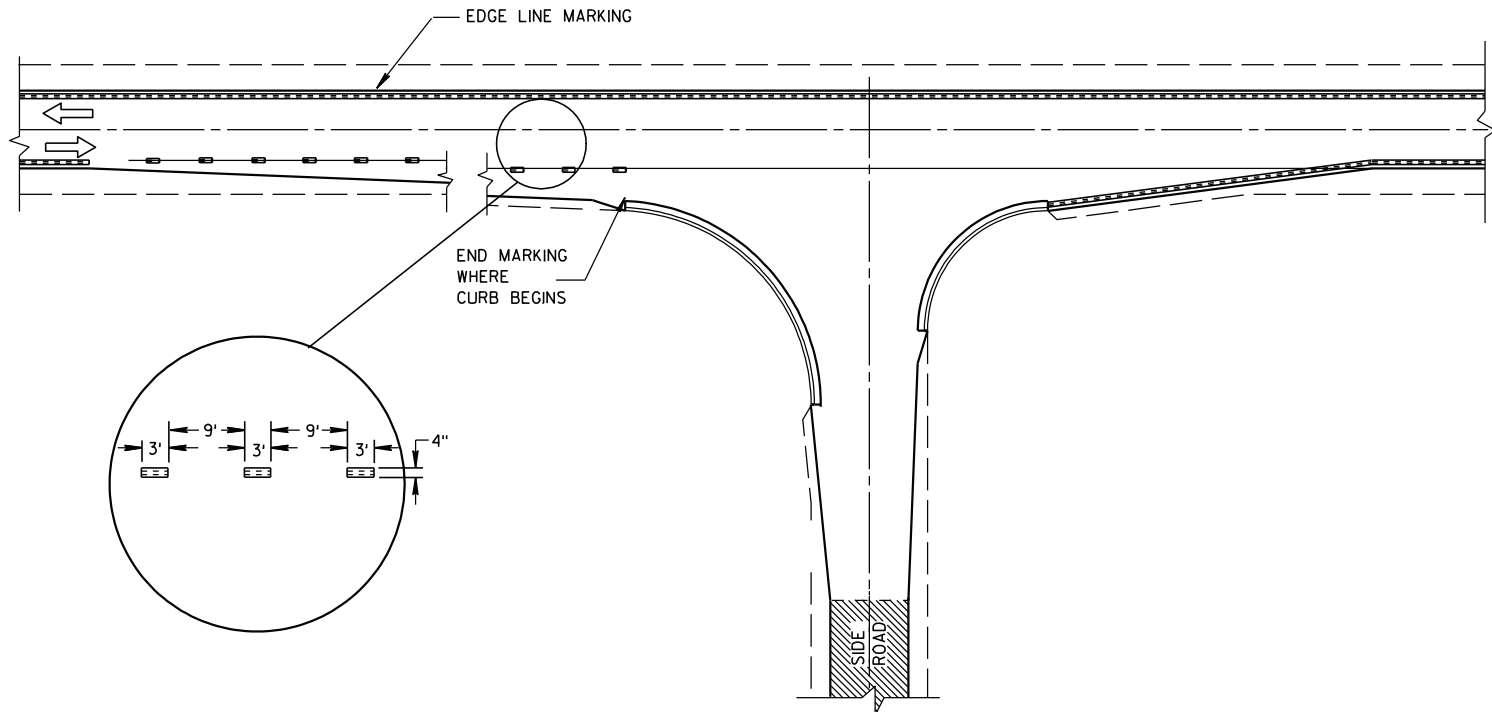
MINOR INTERSECTION WITHOUT CURBS

⑦

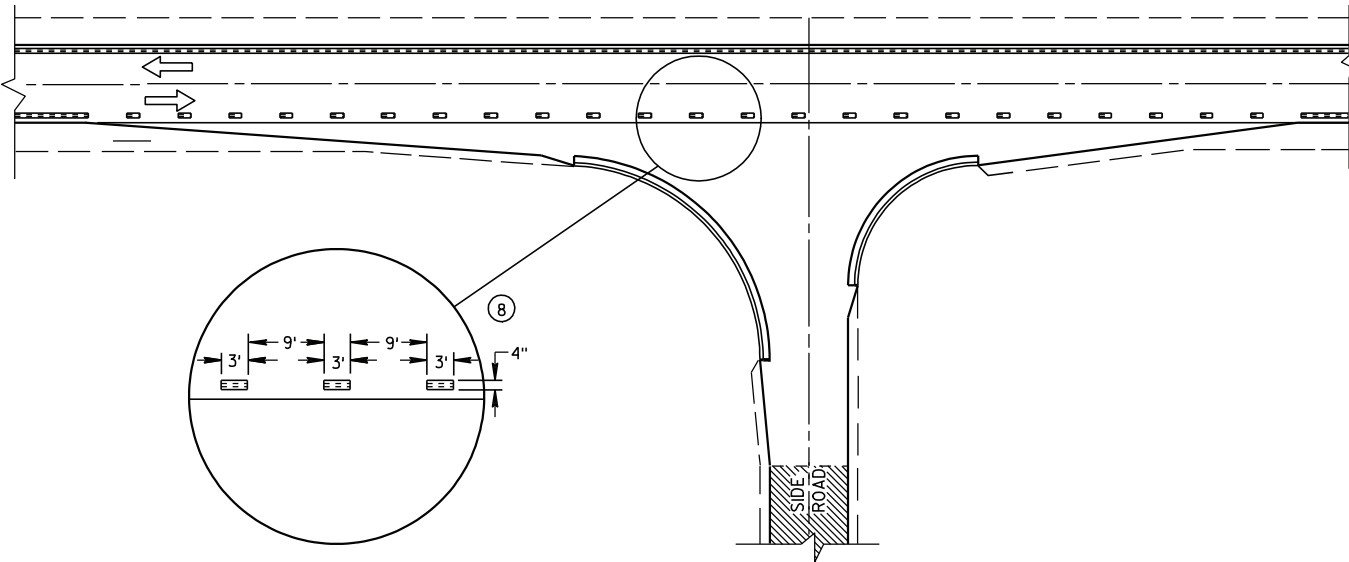
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



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



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



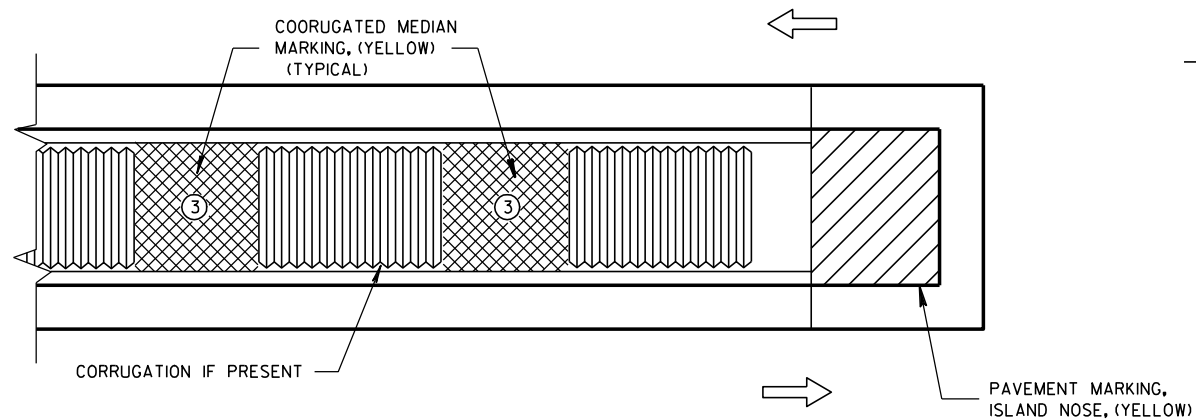
MINOR INTERSECTION WITH CURBS
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

GENERAL NOTES

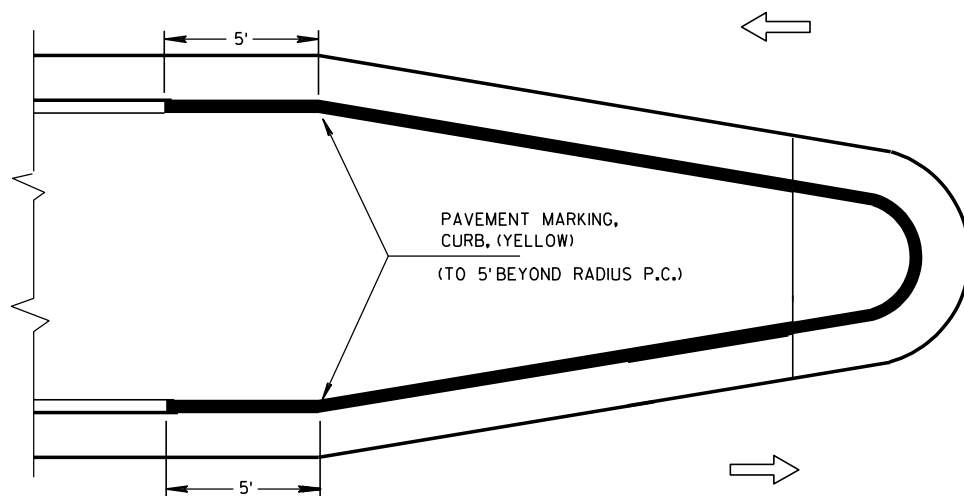
- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
 - ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
 - ③ ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE 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)

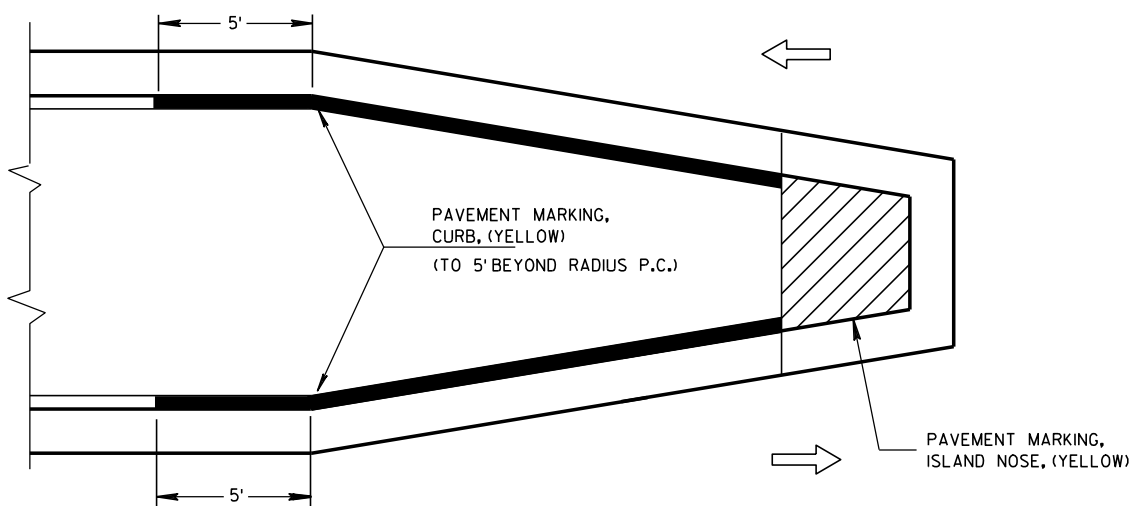
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

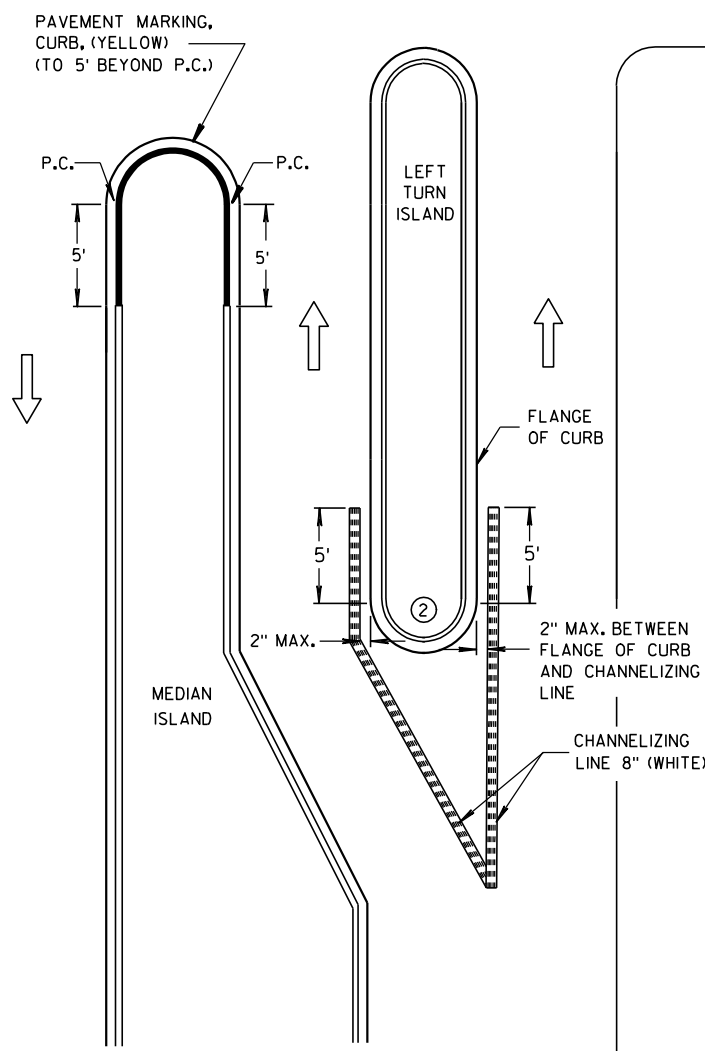


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

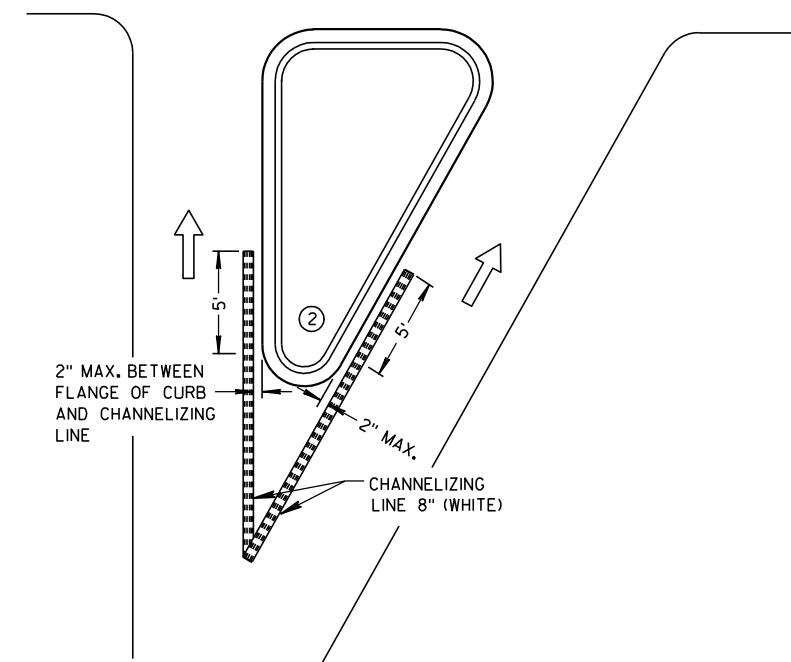
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

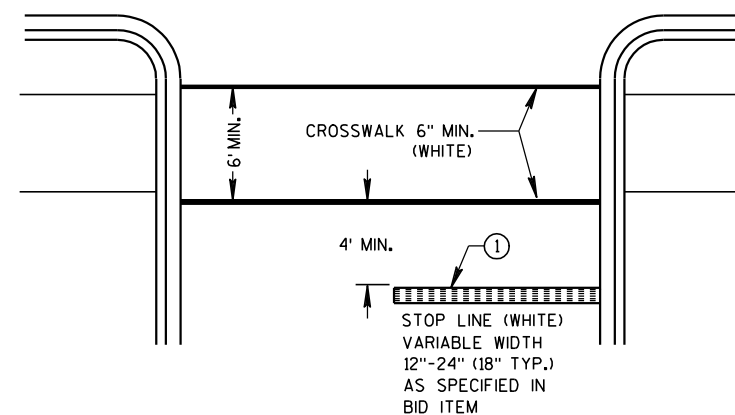
- ① STOP LINE IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
- ③ WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED 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

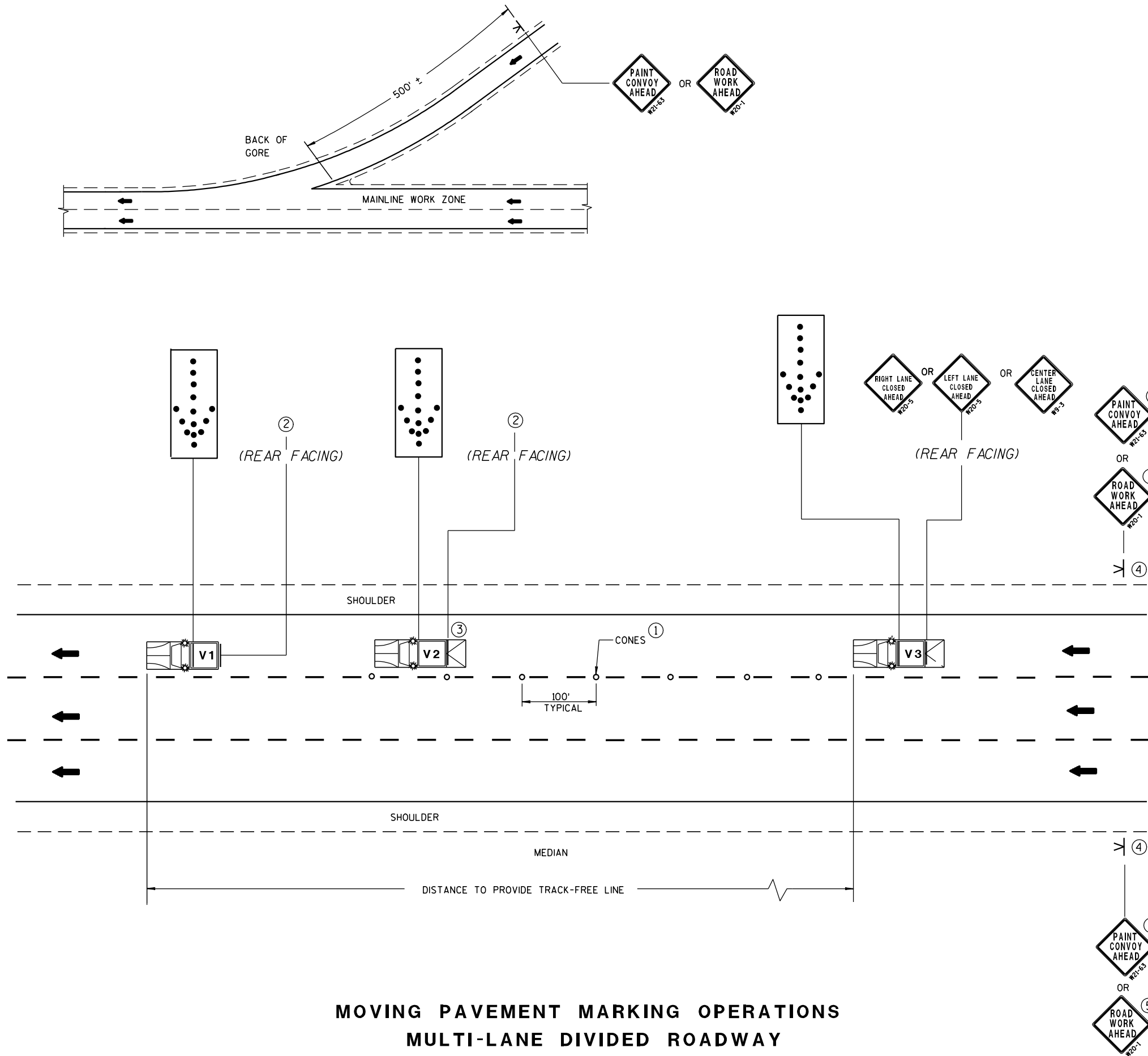
- ISLAND NOSE MARKING
- CURB MAKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL



STOP LINE AND CROSSWALK

**PAVEMENT MARKING
(ISLANDS, STOP LINE &
CROSS WALK)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE DIVIDED ROADWAY

GENERAL NOTES

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

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

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

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

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

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

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR EDGELINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

- ① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- ② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.
- ③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.
- ④ SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.
- ⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

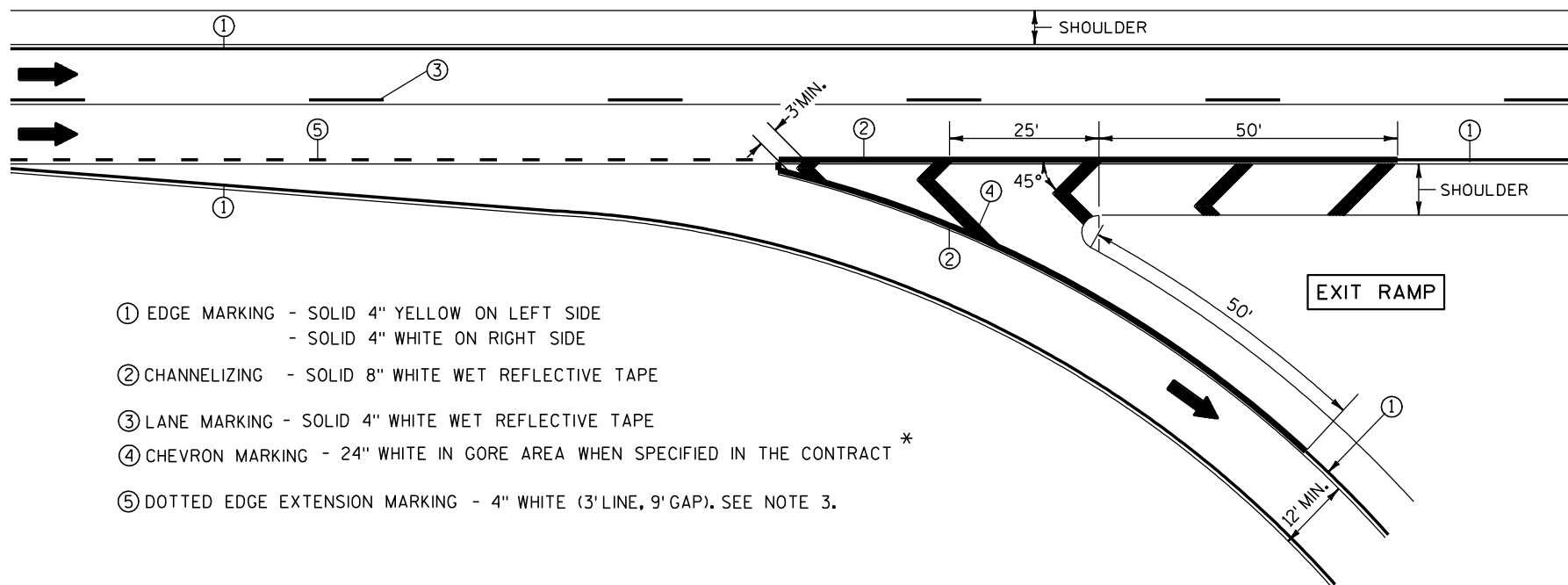
- V1 LEAD VEHICLE
- V2 SHADOW VEHICLE
- V3 TRAIL VEHICLE WITH TMA
- TMA TRUCK-MOUNTED ATTENUATOR
- SIGN ON PORTABLE SUPPORT
- DIRECTION OF TRAVEL
- CONES
- FLASHING ARROW PANEL (MERGE)

MOVING PAVEMENT MARKING
OPERATION
MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/6/2011 /S/ Thomas N. Notbohm
DATE STATE TRAFFIC ENGINEER OF DESIGN

FHWA

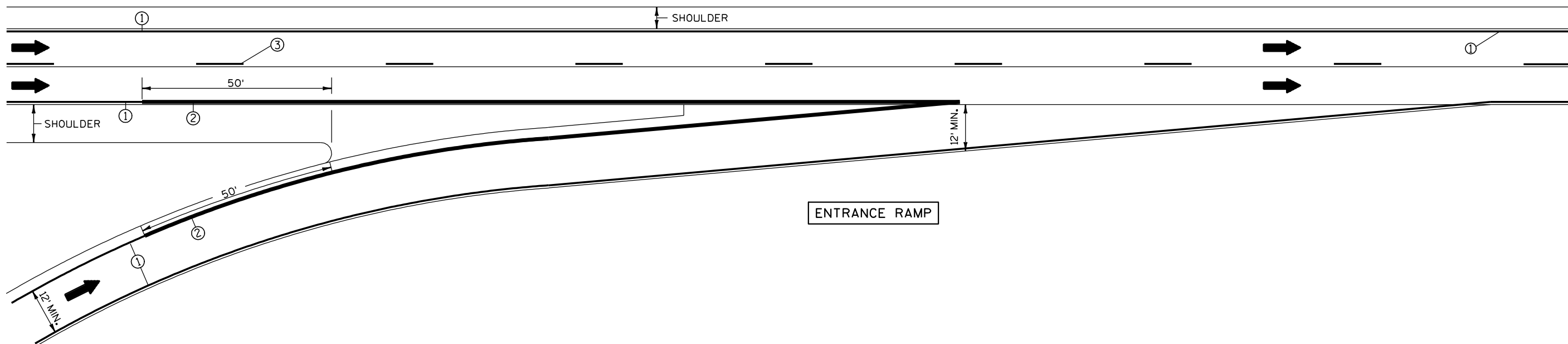


- ① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
- SOLID 4" WHITE ON RIGHT SIDE
- ② CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE
- ③ LANE MARKING - SOLID 4" WHITE WET REFLECTIVE TAPE
- ④ CHEVRON MARKING - 24" WHITE IN GORE AREA WHEN SPECIFIED IN THE CONTRACT *
- ⑤ DOTTED EDGE EXTENSION MARKING -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

NOTES:

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

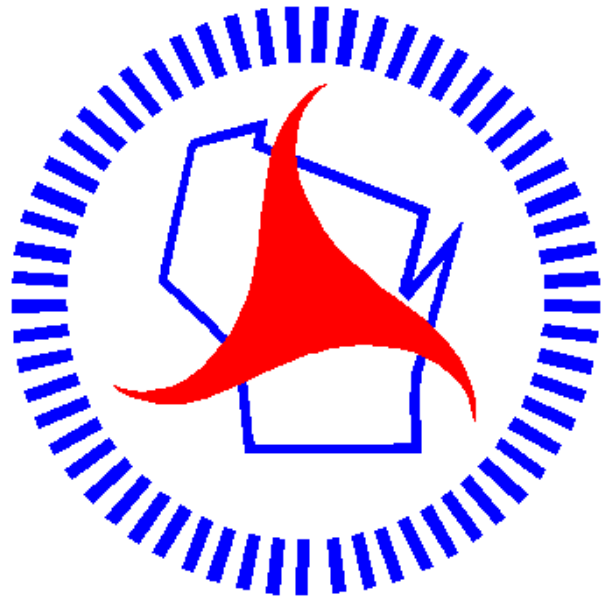
* REFER TO DESIGN NOTES.



PAVEMENT MARKING
(RAMPS AND GORES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Notes



Wisconsin Department of Transportation

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through innovation and exceptional service.

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