

WIS

MAR 2016

PROJECT ID:

1009-42-43

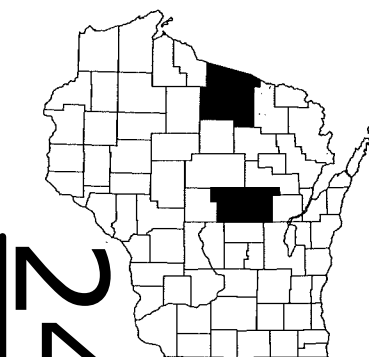
COUNTY:

NC REGION WIDE

ORDER OF SHEETS

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

TOTAL SHEETS = 26



DESIGN DESIGNATION 1009-42-42

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

CONVENTIONAL SYMBOLS

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

PROFILE	
GRADE LINE	----
ORIGINAL GROUND	----
MARSH OR ROCK PROFILE (To be noted as such)	----
SPECIAL DITCH	----
GRADE ELEVATION	92.56
CULVERT (Profile View)	----
UTILITIES	----
ELECTRIC	----
FIBER OPTIC	----
GAS	----
SANITARY SEWER	----
STORM SEWER	----
TELEPHONE	----
WATER	----
UTILITY PEDESTAL	----
POWER POLE	----
TELEPHONE POLE	----

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

NC REGION, EPOXY PAVEMENT MARKING

LOCATIONS ON STN PER ANNUAL PLAN

VAR HWY

NORTH CENTRAL REGION WIDE

STATE PROJECT NUMBER

1009-42-43

STATE PROJECT

1009-42-43

FEDERAL PROJECT

PROJECT

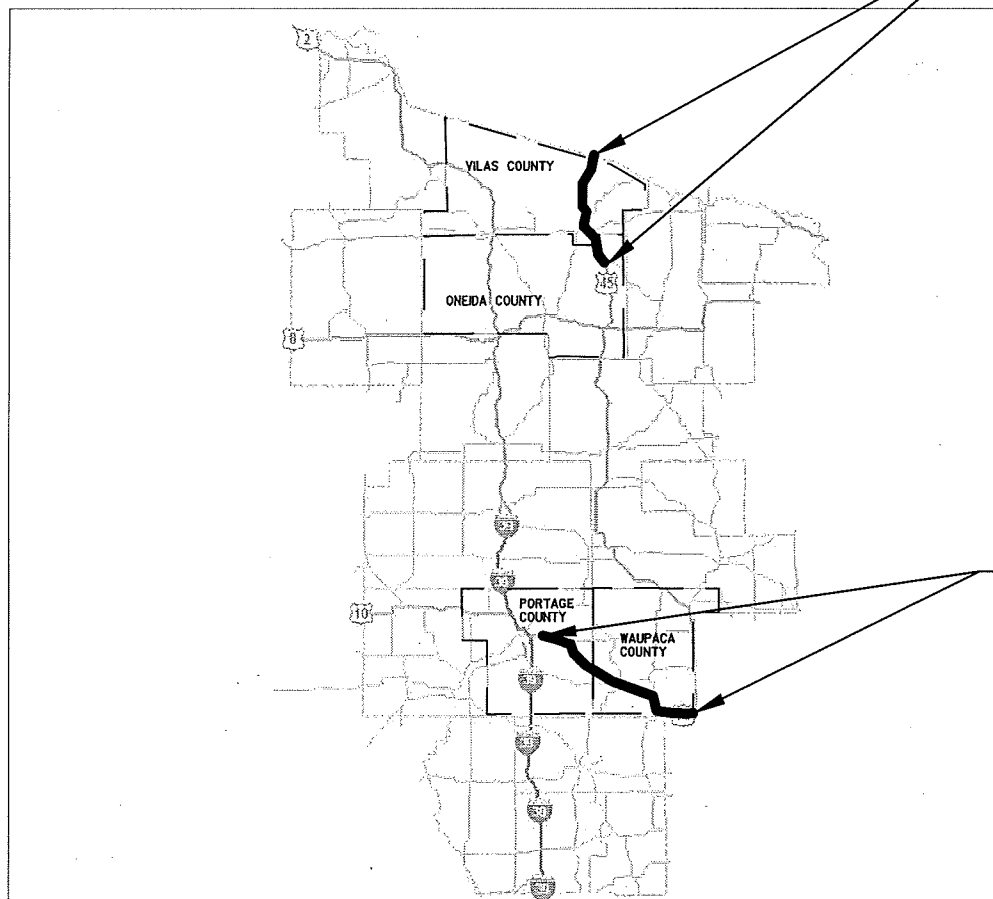
WISC 2016067

CONTRACT

1

SEGMENT 2

USH 45
(STH 32 - MICHIGAN/WISCONSIN STATE LINE)



SEGMENT 1

USH 10
(CTH J OFF RAMP - WINNEBAGO/WAUPACA CO LINE)

LAYOUT
SCALE 0 NA

TOTAL NET LENGTH OF CENTERLINE = 0 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, COUNTY COUNTY, NAD83 (YEAR), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	NC REGION
Designer	JASON SCHAEFFER
Project Manager	TIMOTHY HANLEY
Regional Examiner	CHERYL SIMON
Regional Supervisor	MICHAEL KRETSCHMER

APPROVED FOR THE DEPARTMENT

DATE: 1-5-16 Timothy R. Hanley (Signature)

E

DNR LIAISON

JON SIMONSEN (715)365-8916
jonathan.simonsen@wisconsin.gov
COUNTIES: IRON, LINCOLN, ONEIDA, PRICE

MARC HERSHFIELD (715)421-7867
marc.hershfield@wisconsin.gov
COUNTIES: MARATHON, PORTAGE

BOBBI JO FISCHER (920)787-3015
bobbi.fischer@wisconsin.gov
COUNTIES: WAUPACA, WAUSHARA

GENERAL NOTES

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS.

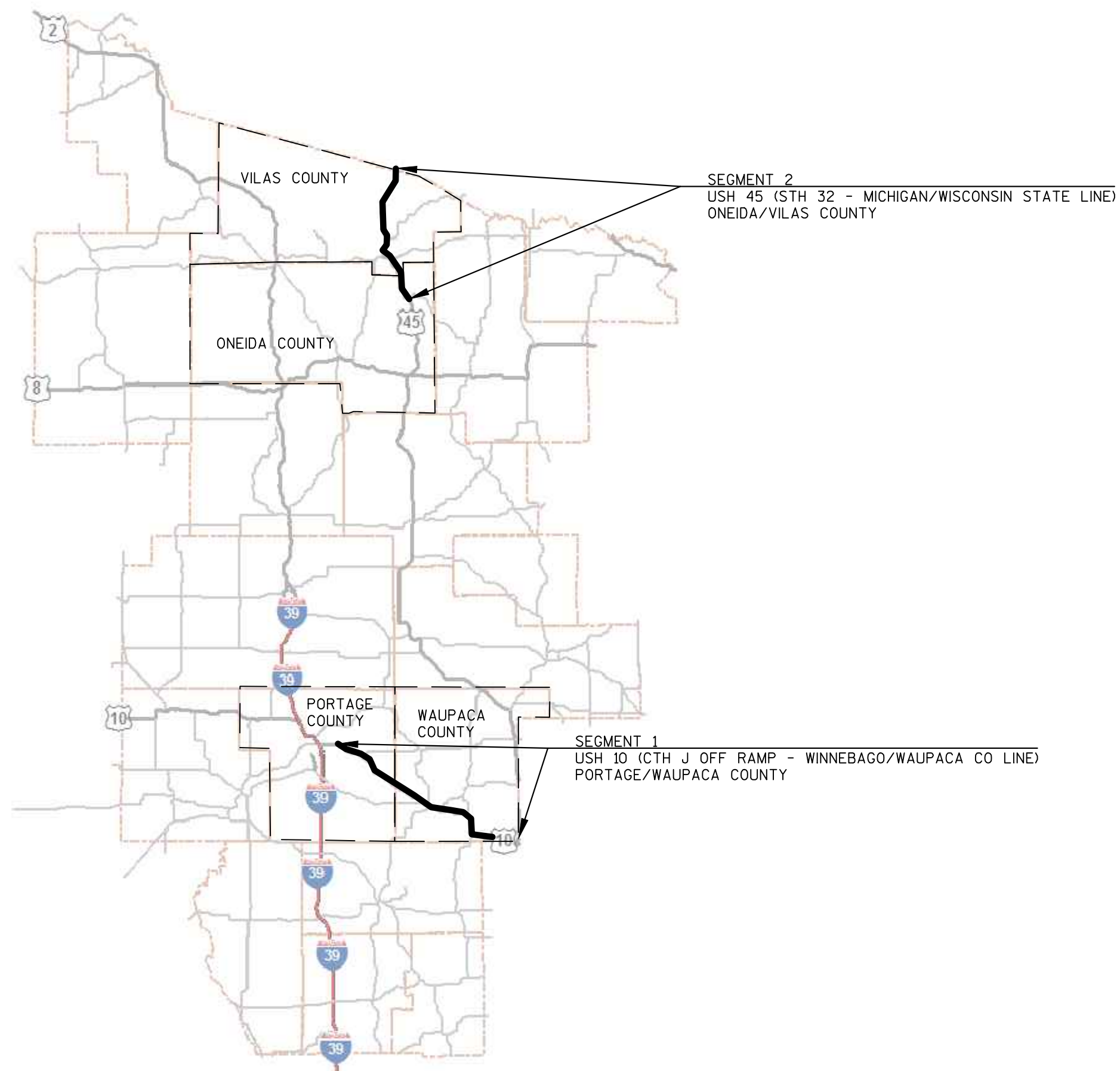
DIGGERS



HOTLINE

Dial  or (800)242-8511

www.DiggersHotline.com



USH 10 (CTH QQ MEDIAN)
PAV'T MARKING EPOXY STOP BAR 18-INCH

USH 10 (CTH K MEDIAN)
PAV'T MARKING EPOXY STOP BAR 18-INCH

USH 10 EB AND WB (SMOKEY ROAD MEDIAN)
PAV'T MARKING EPOXY STOP BAR 18-INCH

USH 10 EB AND WB (RIDGE ROAD MEDIAN)
PAV'T MARKING EPOXY STOP BAR 18-INCH

USH 10 EB AND WB (CTH B)
PAV'T MARKING EPOXY STOP BAR 18-INCH
PAV'T MARKING EPOXY DIAGONAL 24-INCH
PAV'T MARKING EPOXY TYPE 4 ARROW

USH 10 EB AND WB (CTH A)
PAV'T MARKING EPOXY STOP BAR 18-INCH
PAV'T MARKING EPOXY DIAGONAL 24-INCH
PAV'T MARKING EPOXY TYPE 4 ARROW

USH 10 EB AND WB (BUCHOLZ ROAD)
PAV'T MARKING EPOXY STOP BAR 18-INCH

USH 10 EB AND WB (OTTO ROAD)
PAV'T MARKING EPOXY STOP BAR 18-INCH

USH 10 EB AND WB (CTH DD/CTH T)
PAV'T MARKING EPOXY STOP BAR 18-INCH

USH 10 EB AND WB (FOLEY ROAD)
PAV'T MARKING EPOXY STOP BAR 18-INCH

USH 10 EB AND WB (MORGAN ROAD)
PAV'T MARKING EPOXY STOP BAR 18-INCH

USH 10 EB AND WB (CTH Q)
PAV'T MARKING EPOXY STOP BAR 18-INCH

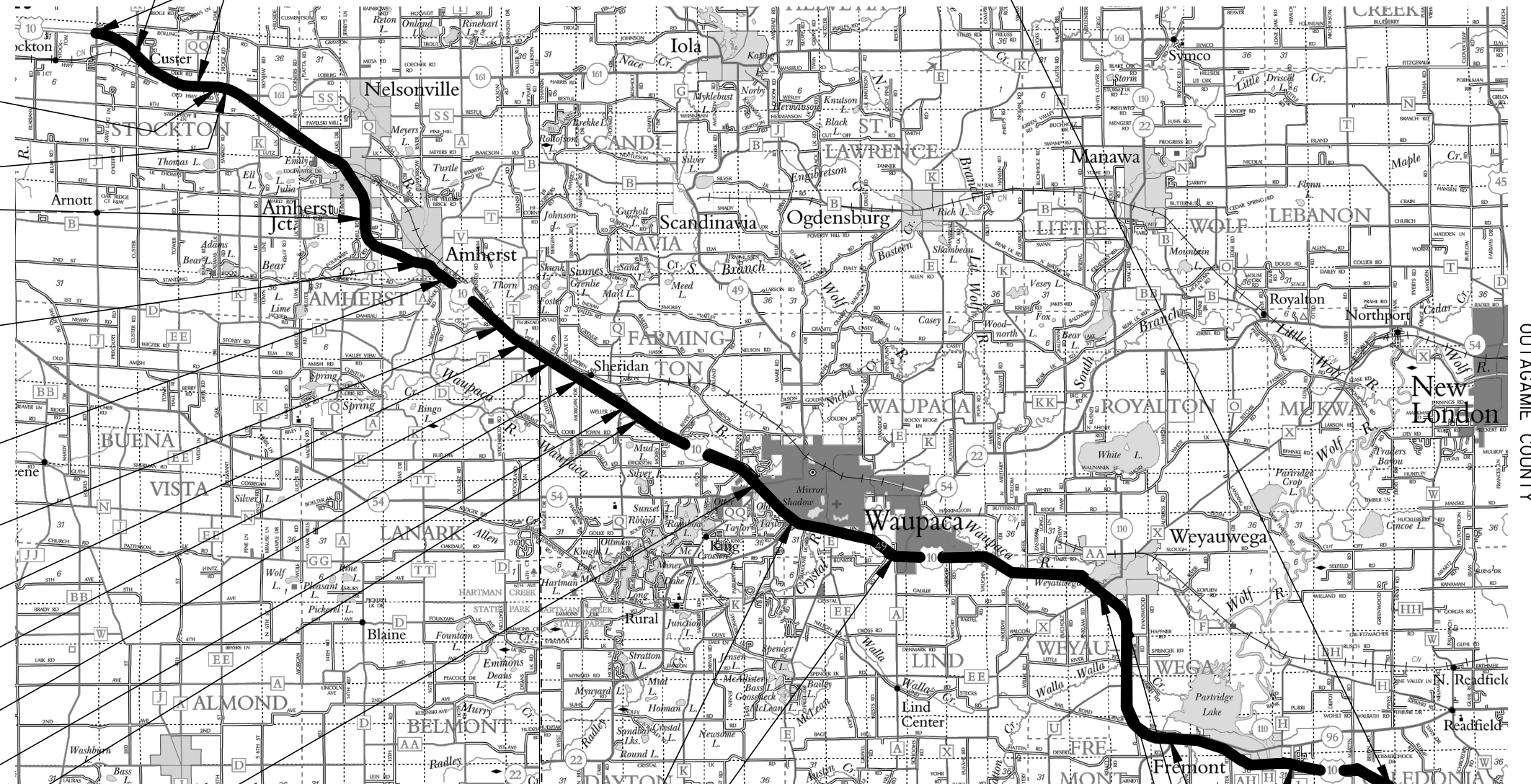
USH 10 EB (MANNEY COURT)
PAV'T MARKING EPOXY STOP BAR 18-INCH

USH 10 EB AND WB
(STH 54 AND STH 49 AND RAMPS)
PAV'T MARKING EPOXY STOP BAR 18-INCH
PAV'T MARKING EPOXY 24-INCH DIAGONALS
PAV'T MARKING EPOXY TYPE 2 ARROWS
PAV'T MARKING EPOXY TYPE 4 ARROWS
PAV'T MARKING EPOXY WORDS - ONLY
PAV'T MARKING EPOXY 12-INCH CROSSWALK

USH 10 EB AND WB
(STH 22 AND CTH K)
PAV'T MARKING EPOXY STOP BAR 18-INCH
PAV'T MARKING EPOXY 24-INCH DIAGONALS
PAV'T MARKING EPOXY TYPE 4 ARROWS
PAV'T MARKING EPOXY WORDS - ONLY

USH 10 EB AND WB
(CTH A AND APPLETREE LANE)
PAV'T MARKING EPOXY STOP BAR 18-INCH
PAV'T MARKING EPOXY 6-INCH CROSSWALK

USH 10 EB & WB
PAVEMENT MARKING EPOXY 4-INCH
PAVEMENT MARKING EPOXY 8-INCH



WAUSHARA COUNTY

USH 10 EB AND WB
(STH 110 AND CTH X)
PAV'T MARKING EPOXY STOP BAR 18-INCH
PAV'T MARKING EPOXY 24-INCH DIAGONALS
PAV'T MARKING EPOXY TYPE 4 ARROWS
PAV'T MARKING EPOXY WORDS - ONLY

USH 10 WB (CTH F)
PAV'T MARKING EPOXY 24-INCH DIAGONALS

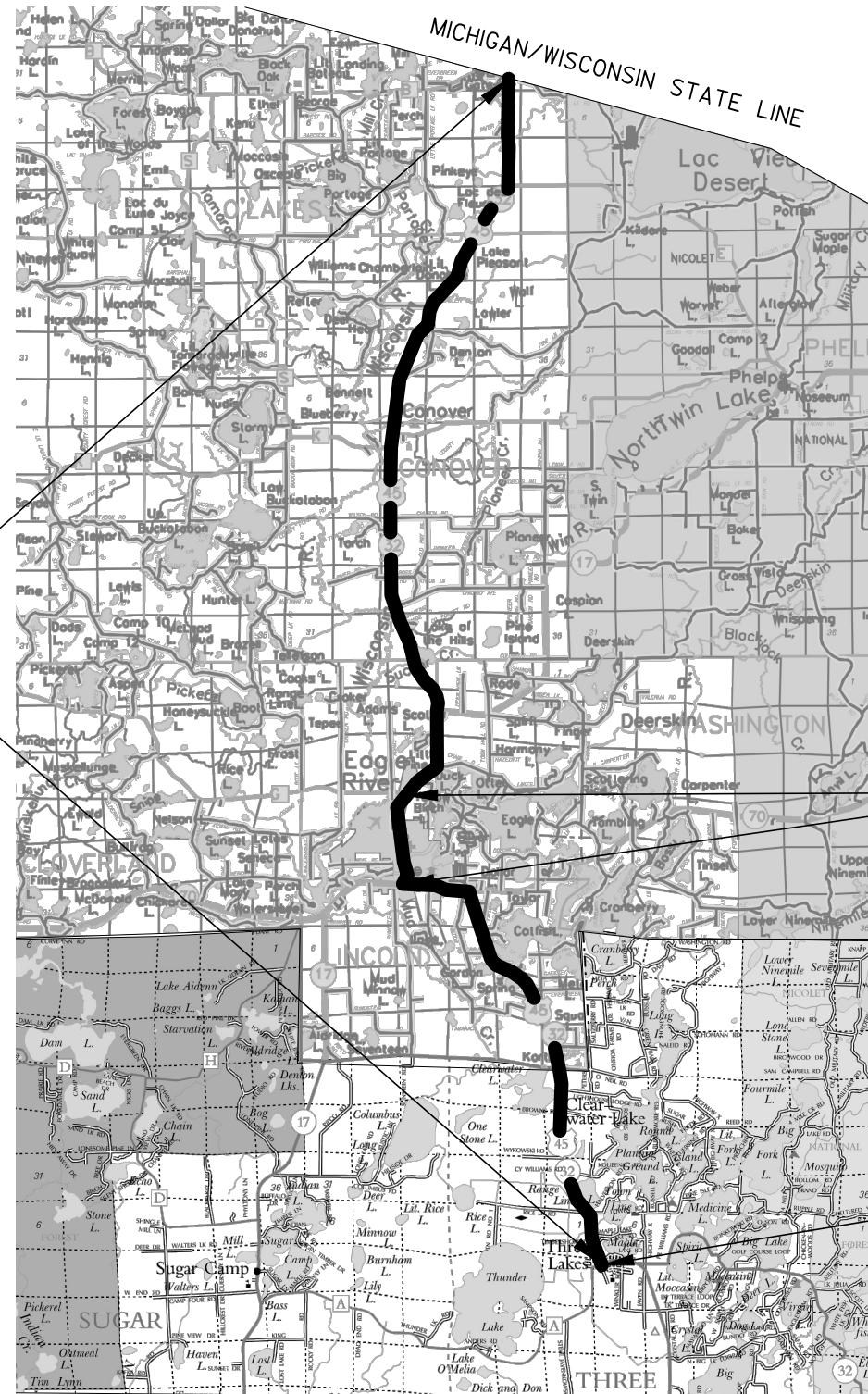
USH 10 EB AND WB
(STH 110 AND USH 49)
PAV'T MARKING EPOXY TYPE 4 ARROW
PAV'T MARKING EPOXY STOP BAR 18-INCH

WINNEBAGO COUNTY

USH 10 EB & WB
(STH 110 & CTH II)
PAV'T MARKING
EPOXY TYPE 4 ARROW
PAV'T MARKING
EPOXY DIAGONALS 24-INCH



USH 45 NB AND SB
PAV'T MARKING EPOXY 4-INCH
PAV'T MARKING EPOXY 8-INCH



USH 45 NB AND SB
(STH 70 - CTH G)
PAV'T MARKING EPOXY DIAGONALS 12-INCH
PAV'T MARKING EPOXY CORRUGATED MEDIAN
PAV'T MARKING EPOXY CURB
PAV'T MARKING EPOXY STOP BAR 18-INCH
PAV'T MARKING EPOXY STOP LINE 18-INCH
PAV'T MARKING EPOXY TYPE 2 ARROWS
PAV'T MARKING EPOXY TYPE 3 ARROWS
PAV'T MARKING EPOXY WORDS - ONLY

USH 45 NB AND SB
(STH 32 AND USH 45 INTERSECTION)
PAV'T MARKING EPOXY STOP BAR 18-INCH
PAV'T MARKING EPOXY TYPE 2 ARROWS
PAV'T MARKING EPOXY WORDS - ONLY

DATE 05JAN16		E S T I M A T E O F Q U A N T I T I E S				
LINE		1009-42-43				
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.	EACH	1.000	1.000	1009-42-43
0030	646.0106	Pavement Marki ng Epoxy 4-Inch	LF	1,410,435.000	1,410,435.000	
0040	646.0126	Pavement Marki ng Epoxy 8-Inch	LF	112,273.000	112,273.000	
0050	647.0166	Pavement Marki ng Arrows Epoxy Type 2	EACH	115.000	115.000	
0060	647.0176	Pavement Marki ng Arrows Epoxy Type 3	EACH	17.000	17.000	
0070	647.0186	Pavement Marki ng Arrows Epoxy Type 4	EACH	8.000	8.000	
0080	647.0356	Pavement Marki ng Words Epoxy	EACH	42.000	42.000	
0090	647.0456	Pavement Marki ng Curb Epoxy	LF	599.000	599.000	
0100	647.0566	Pavement Marki ng Stop Li ne Epoxy 18-Inch	LF	1,467.000	1,467.000	
0110	647.0606	Pavement Marki ng Isl and Nose Epoxy	EACH	21.000	21.000	
0120	647.0716	Pavement Marki ng Diagonal Epoxy 8-Inch	LF	77.000	77.000	
0130	647.0726	Pavement Marki ng Diagonal Epoxy 12-Inch	LF	105.000	105.000	
0140	647.0746	Pavement Marki ng Diagonal Epoxy 24-Inch	LF	5,413.000	5,413.000	
0150	647.0856	Pavement Marki ng Concrete Corrugated Medi an Epoxy	SF	596.000	596.000	
0160	ASP.1T0A	On-the-Job Traini ng Apprentice at \$5.00/HR	HRS	150.000	150.000	
0170	ASP.1T0G	On-the-Job Traini ng Graduate at \$5.00/HR	HRS	300.000	300.000	

3

3

PAVEMENT MARKING (SEGMENT 1)														
		646.0106		646.0126		647.0166	647.0186		647.0566	647.0726		647.0746		
		EPOXY		EPOXY		ARROWS	ARROWS	647.0356	STOP LINE	DIAGONAL		DIAGONAL		
		4 INCH		8-INCH		EPOXY	EPOXY	WORDS	EPOXY	EPOXY		EPOXY		
		YELLOW	WHITE	YELLOW	WHITE	WHITE	WHITE	WHITE	WHITE	YELLOW	WHITE	YELLOW	WHITE	
LOCATION		LF	LF	LF	LF	EACH	EACH	EACH	LF	LF	LF	LF	LF	REMARKS
PORTAGE COUNTY	USH 10 EB & WB (CTH K)	---	---	---	---	---	---	---	36	---	---	---	---	MEDIAN
PORTAGE COUNTY	USH 10 EB & WB (CTH QQ)	---	---	---	---	---	---	---	36	---	---	---	---	MEDIAN
PORTAGE COUNTY	USH 10 EB & WB (SMOKEY ROAD)	---	---	---	---	---	---	---	36	---	---	---	---	MEDIAN
PORTAGE COUNTY	USH 10 EB & WB (RIDGE ROAD)	---	---	---	---	---	---	---	36	---	---	---	---	MEDIAN
PORTAGE COUNTY	USH 10 EB & WB (CTH B)	---	---	---	---	---	---	---	50	---	---	---	---	MEDIAN
PORTAGE COUNTY	USH 10 EB & WB (CTH B)	---	---	---	---	---	---	---	---	---	---	---	430	MEDIAN AND GORE
PORTAGE COUNTY	USH 10 EB & WB (CTH A)	---	---	---	---	---	---	---	61	---	---	---	---	MEDIAN
PORTAGE COUNTY	USH 10 EB & WB (CTH A)	---	---	---	---	---	---	---	---	---	---	---	462	MEDIAN AND GORE
PORTAGE COUNTY	USH 10 EB & WB (BUCHHOLZ ROAD)	---	---	---	---	---	---	---	36	---	---	---	---	MEDIAN
PORTAGE COUNTY	USH 10 EB & WB (OTTO ROAD)	---	---	---	---	---	---	---	36	---	---	---	---	MEDIAN
WAUPACA COUNTY	USH 10 WB (CTH DD/CTH T)	---	---	---	---	---	---	---	60	---	---	---	---	MEDIAN
WAUPACA COUNTY	USH 10 EB & WB (FOLEY ROAD)	---	---	---	---	---	---	---	36	---	---	---	---	MEDIAN
WAUPACA COUNTY	USH 10 EB & WB (MORGAN ROAD)	---	---	---	---	---	---	---	36	---	---	---	---	MEDIAN
WAUPACA COUNTY	USH 10 EB & WB (CTH Q)	---	---	---	---	---	---	---	36	---	---	---	---	MEDIAN
WAUPACA COUNTY	USH 10 EB (MANNEY COURT)	---	---	---	---	---	---	---	36	---	---	---	---	MEDIAN
WAUPACA COUNTY	USH 10 (RIVER DRIVE)	---	---	---	---	---	---	---	36	---	---	---	---	MEDIAN
WAUPACA COUNTY	USH 10 EB & WB (STH 54 & STH 49 & RAMPS	---	---	---	---	1	1	1	64	---	89	---	550	INTERSECTION AND RAMPS
WAUPACA COUNTY	USH 10 EB & WB (STH 22 & CTH K)	---	---	---	---	---	2	---	72	---	---	---	606	INTERSECTION AND RAMPS
WAUPACA COUNTY	USH 10 EB & WB (CTH A & APPLETREE LANE)	---	---	---	---	---	---	---	48	---	---	---	440	INTERSECTION AND RAMPS
WAUPACA COUNTY	USH 10 EB & WB (STH 110 & CTH X)	---	---	---	---	---	2	---	82	---	---	---	828	INTERSECTION AND RAMPS
WAUPACA COUNTY	USH 10 WB (CTH F)	---	---	---	---	---	---	---	---	---	---	---	614	
WAUPACA COUNTY	USH 10 EB & WB (STH 49 & STH 110)	---	---	---	---	---	2	---	87	---	---	---	---	INTERSECTION AND RAMPS
WAUPACA COUNTY	USH 10 EB & WB (STH 110 & CTH II)	---	---	---	---	---	1	---	---	---	---	---	614	INTERSECTION AND RAMPS
WAUP/PORT COUNTIES	USH 10 EB & WB WINNEBAGO/WAUPACA CO LINE-CTH J OFF RAMP	---	932588	---	109854	---	---	---	---	---	---	---	---	MAINLINE/TURN LANES & GORES
		---	---	---	---	---	---	---	---	---	---	---	---	
	SUBTOTALS:	0	932588	0	109854					0	89	0	4544	
	SEGMENT 1 TOTALS:	932,588		109,854		1	8	1	920	89		4,544		

continued onto next page...

PAVEMENT MARKING (SEGMENT 2)																				
		647.0606 EPOXY ISLAND NOSE YELLOW LF	646.0106 EPOXY 4 INCH		646.0126 EPOXY 8-INCH		647.0456 EPOXY CURB YELLOW LF	647.0166 ARROWS TYPE 2 EPOXY WHITE EACH	647.0176 ARROWS TYPE 3 EPOXY WHITE EACH	647.0186 ARROWS TYPE 4 EPOXY WHITE EACH	647.0356 WORDS EPOXY WHITE EACH	647.0566 STOP LINE EPOXY 18-INCH WHITE LF	647.0716 DIAGONAL EPOXY 8-INCH		647.0726 DIAGONAL EPOXY 12-INCH		647.0746 DIAGONAL EPOXY 24-INCH		647.0856 EPOXY CORRUGATED MEDIAN LF	REMARKS
		YELLOW LF	WHITE LF	YELLOW LF	WHITE LF	WHITE EACH	WHITE EACH	WHITE EACH	WHITE EACH	WHITE LF	YELLOW LF	WHITE LF	YELLOW LF	WHITE LF	YELLOW LF	WHITE LF				
LOCATION																				
VILAS/ONEIDA CO	USH 45 NB & SB (STH 32 - WISCONSIN/MICHIGAN STATE LINE)	---	213689	264158	---	2419	---	---	---	---	---	---	---	---	---	---	---	---	---	MAINLINE
VILAS COUNTY	USH 45 NB & SB (STH 32 & USH 45 INTERSECTION)	---	---	---	---	---	---	1	---	---	1	20	---	---	---	---	---	---	---	INTERSECTION
VILAS COUNTY	USH 45 NB & SB (STH 70 TO CTH G)	21	---	---	---	---	599	113	17	---	40	527	---	77	---	16	---	869	596	EAGLE RIVER
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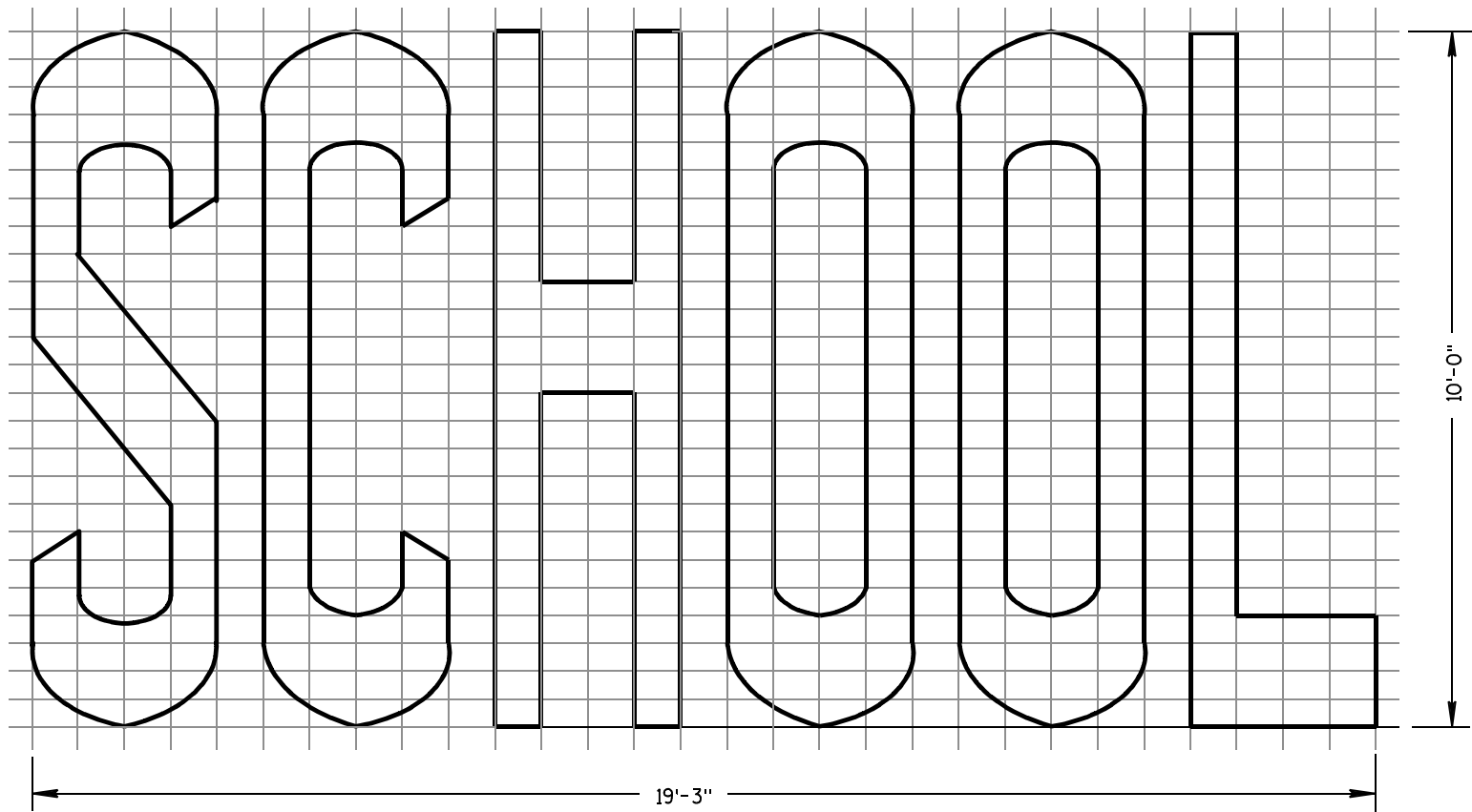
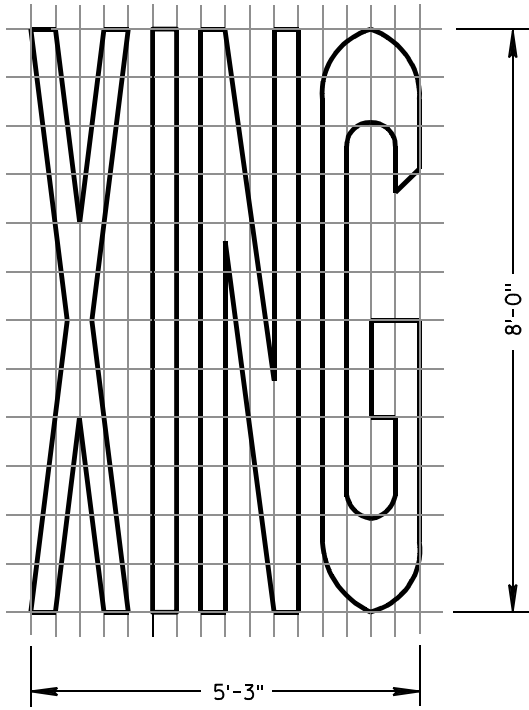
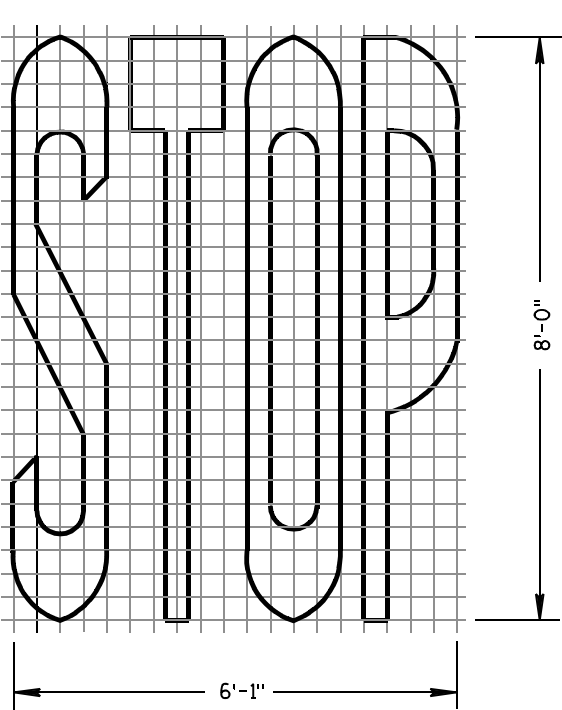
Standard Detail Drawing List

15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16C	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C08-16D	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C18-03	MEDIAN ISLAND MARKING
15C19-02A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-02B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-02C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING

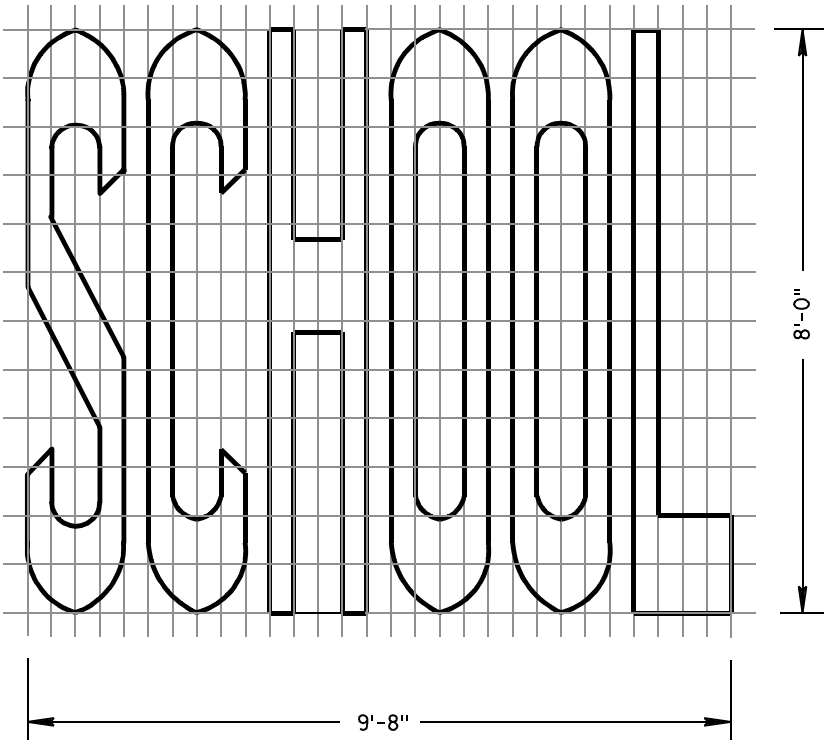
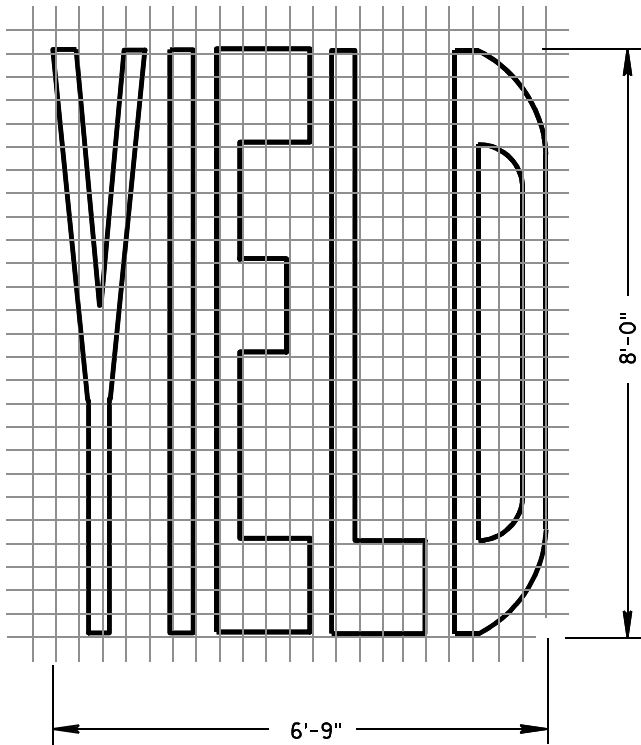
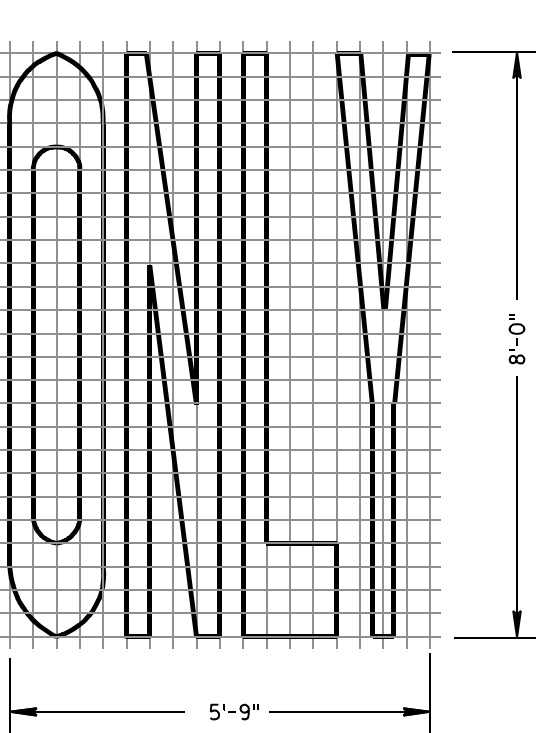
GENERAL NOTES

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.

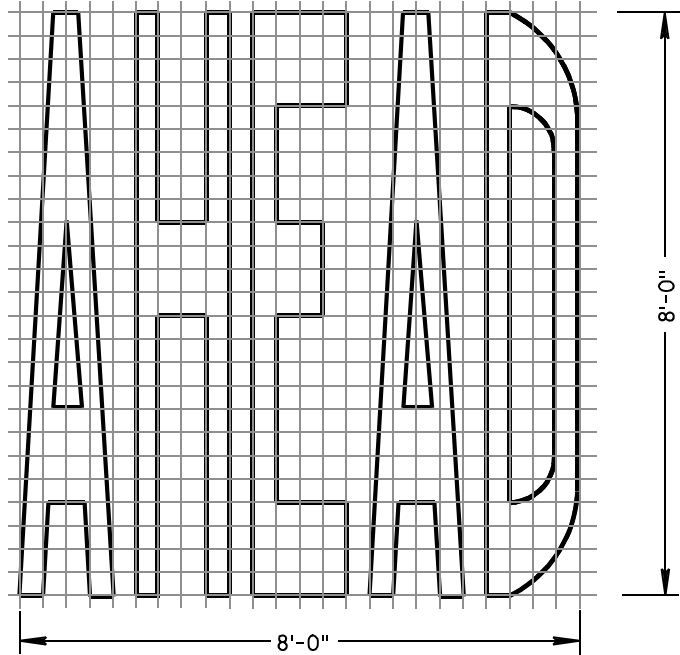
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES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



TWO-LANE



SINGLE-LANE



PAVEMENT MARKING WORDS

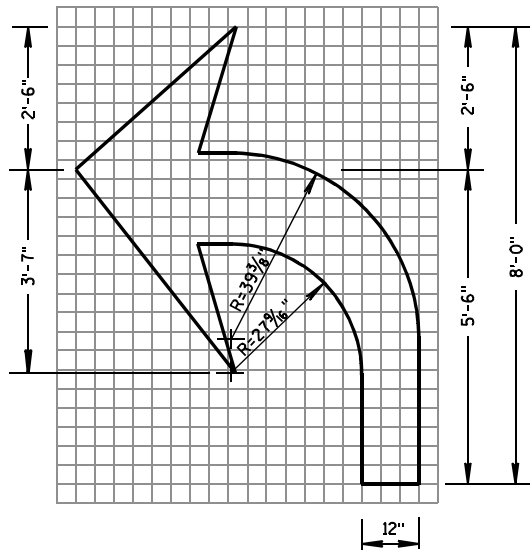
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

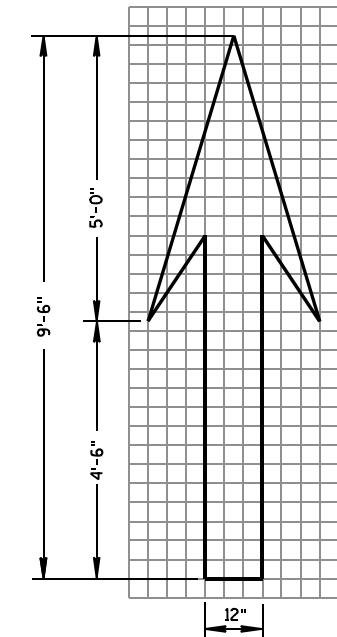
7-1-11
DATE

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

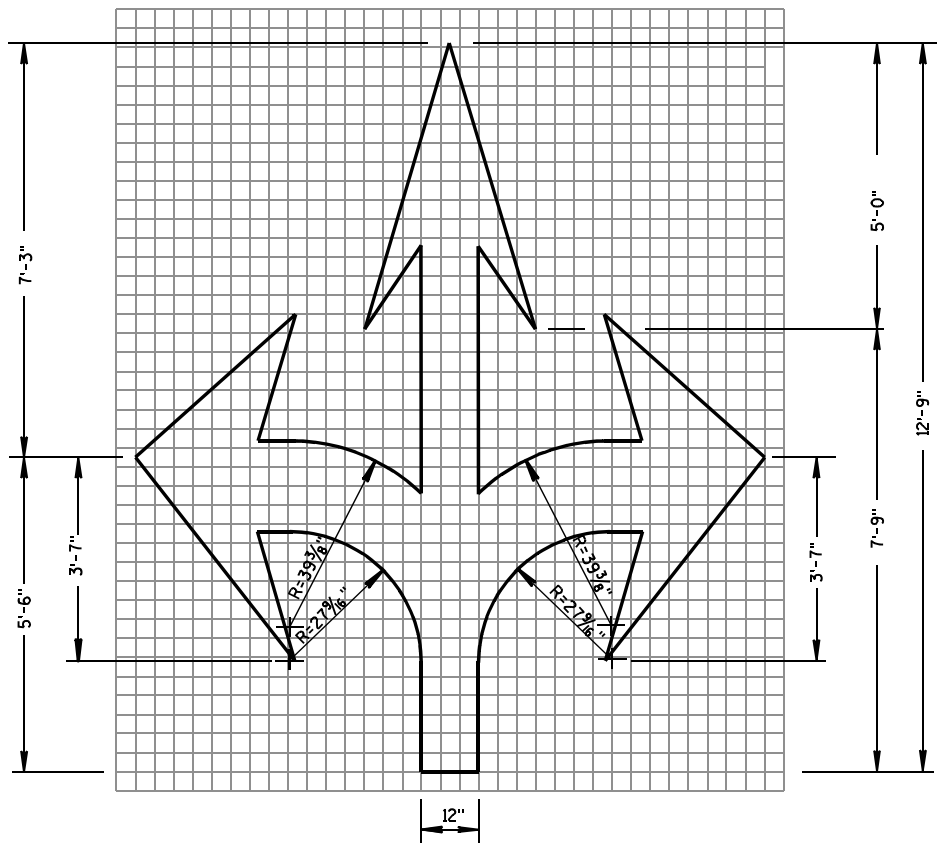
FHWA



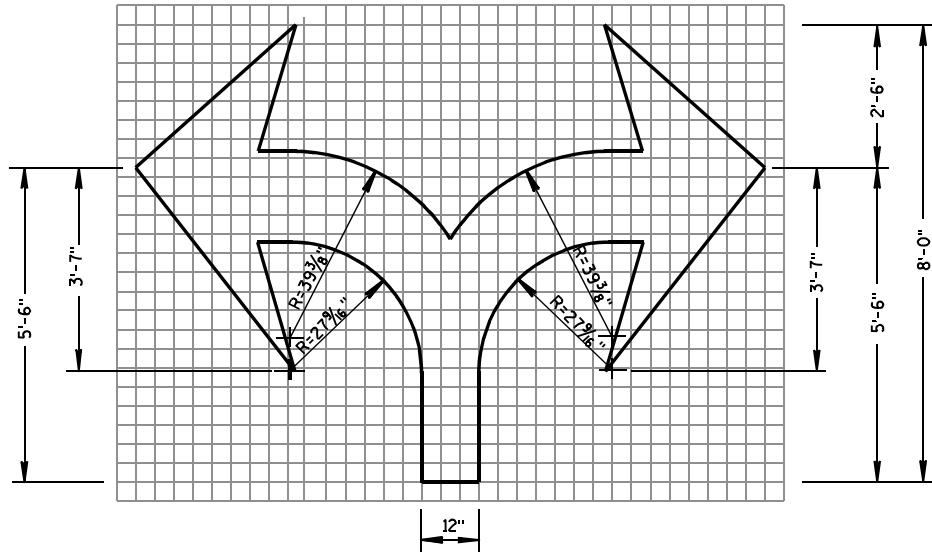
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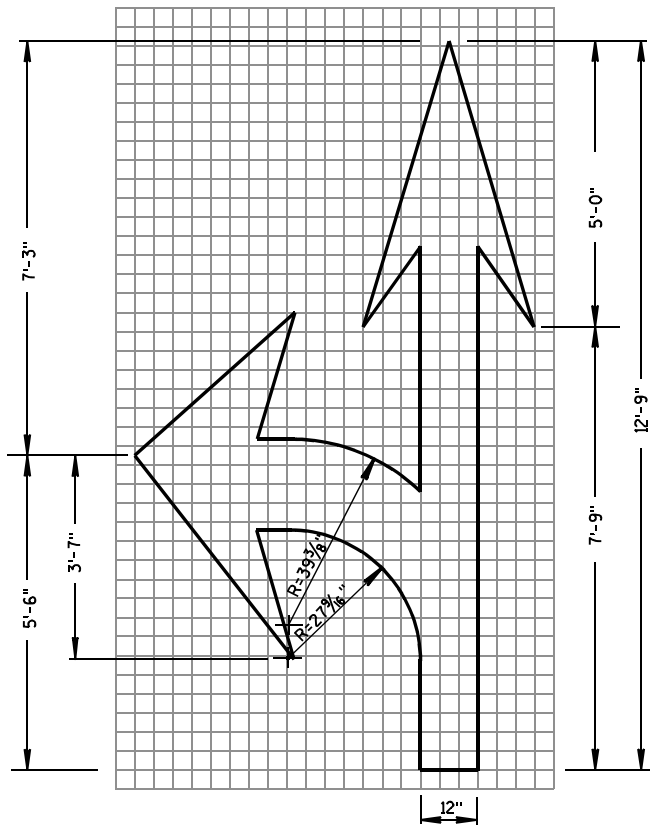
TYPE 1



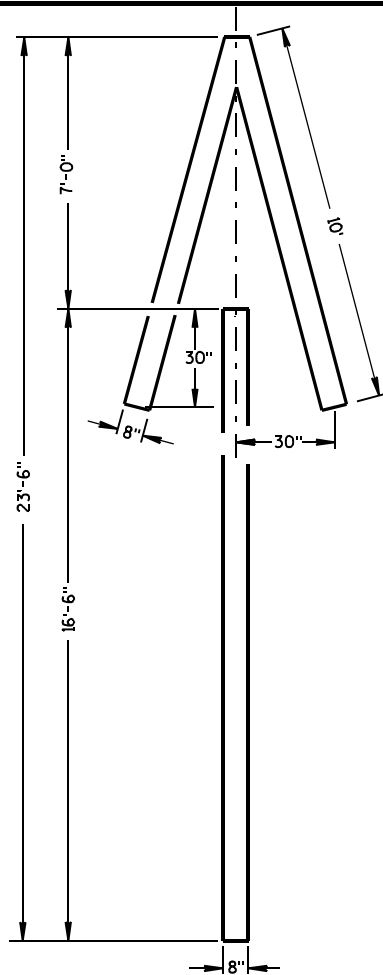
TYPE 6



TYPE 7



TYPE 3

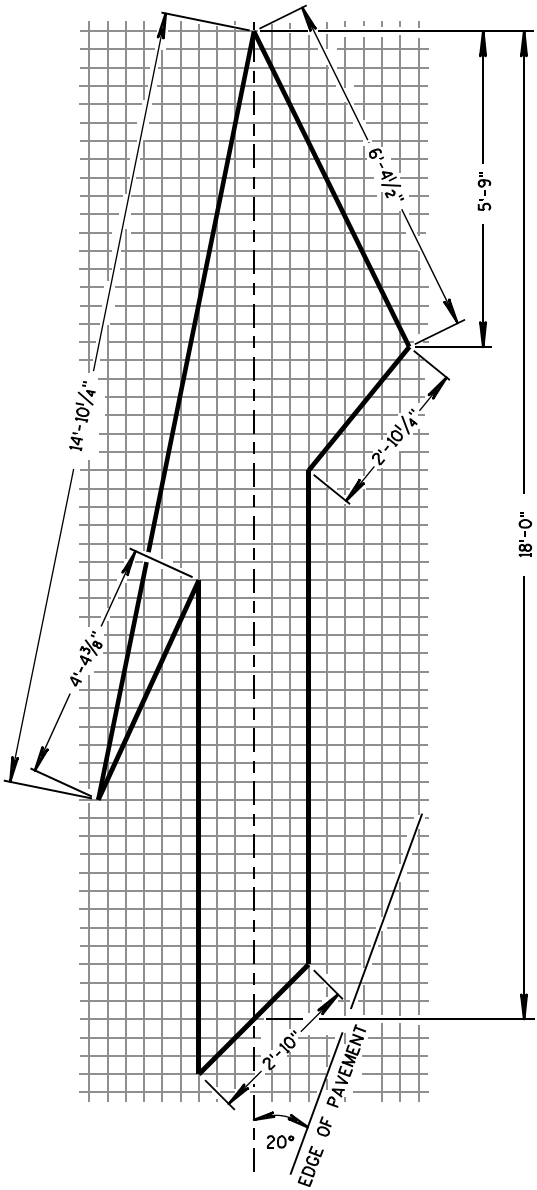


TYPE 4

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.

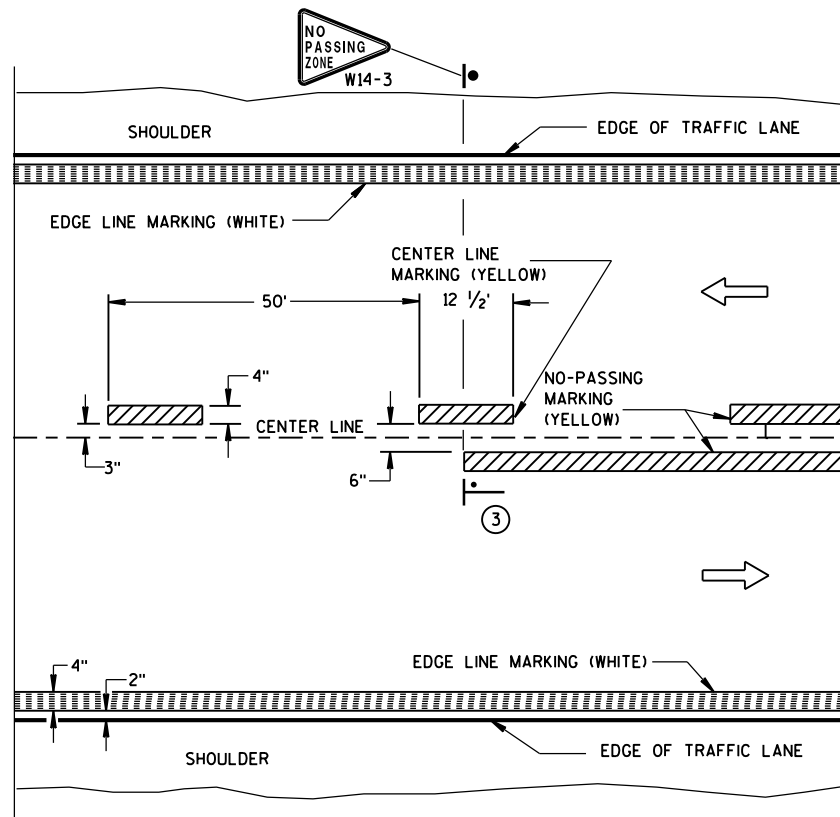


TYPE 5 LANE DROP ARROW

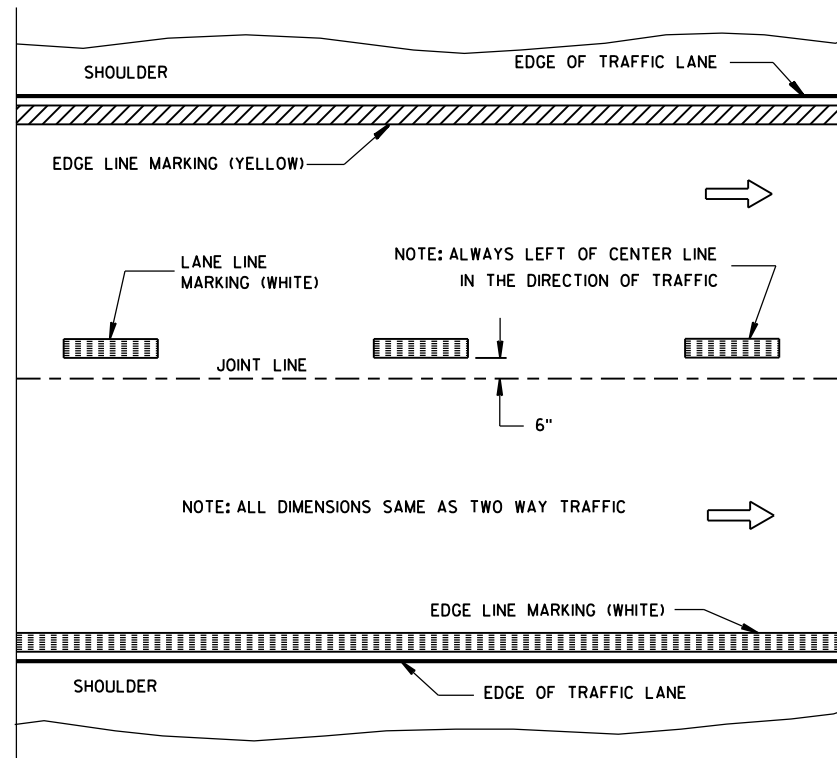
PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

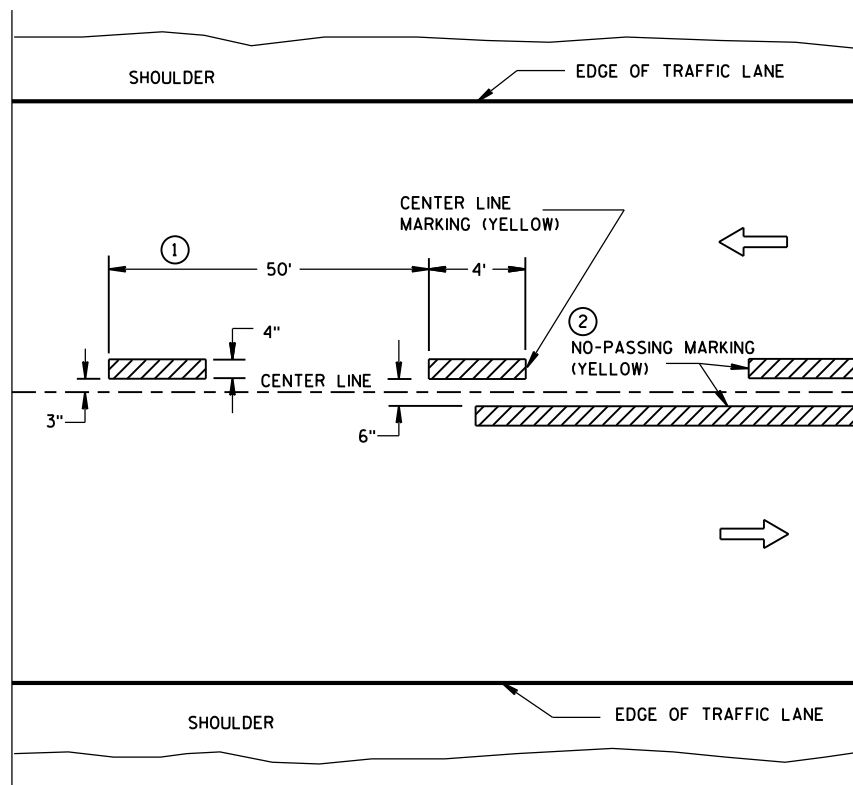


TWO WAY TRAFFIC

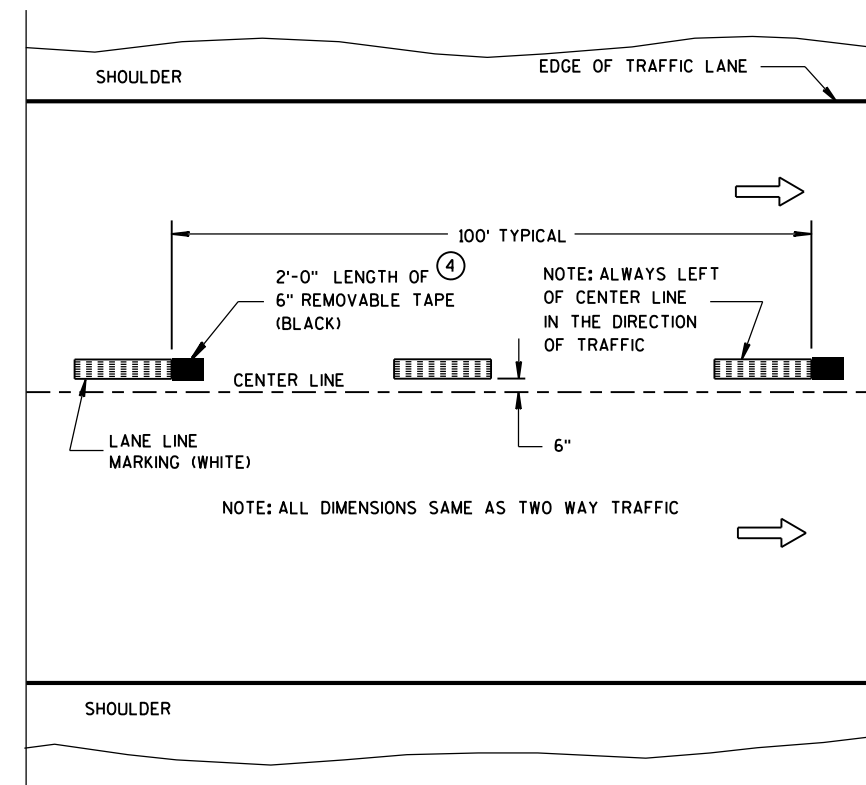


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

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

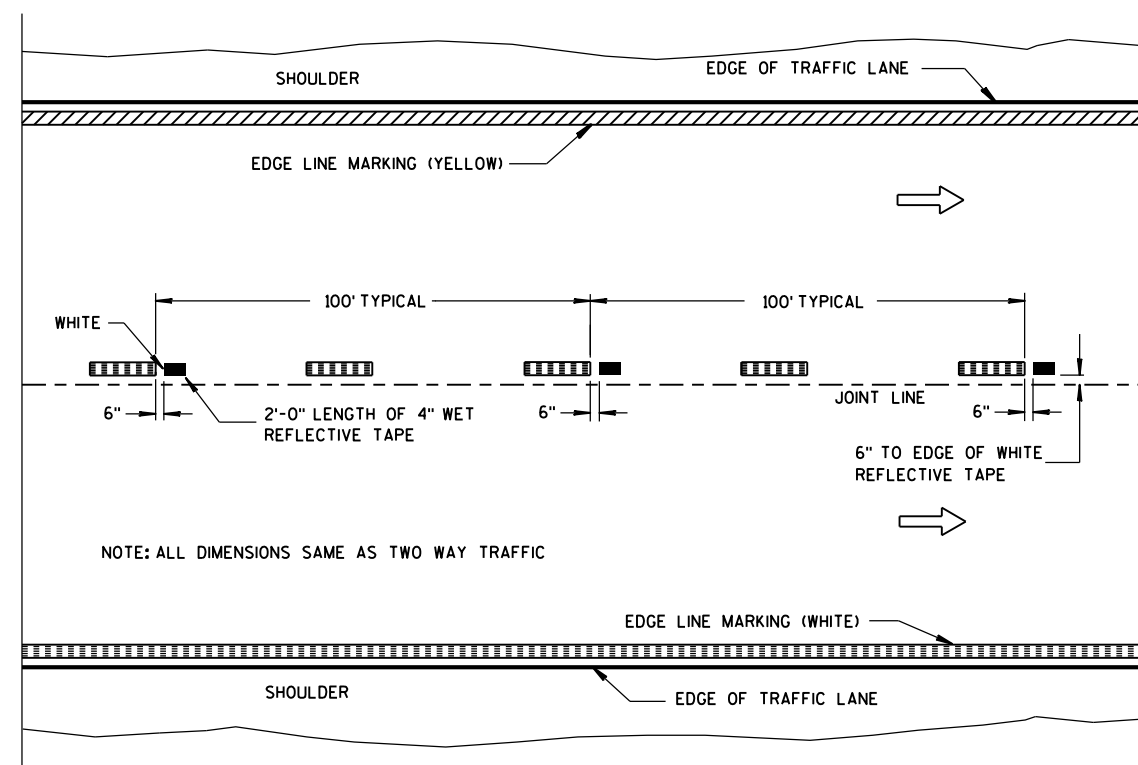
GENERAL NOTES

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)

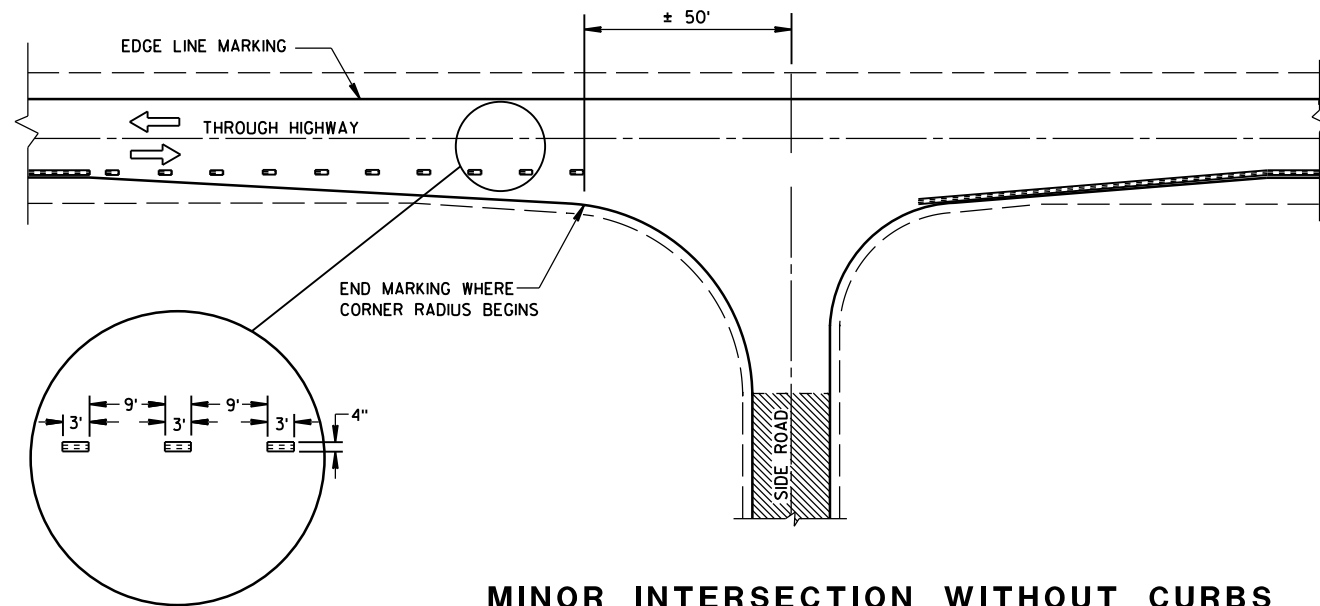
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-13-2013
DATE

FHWA

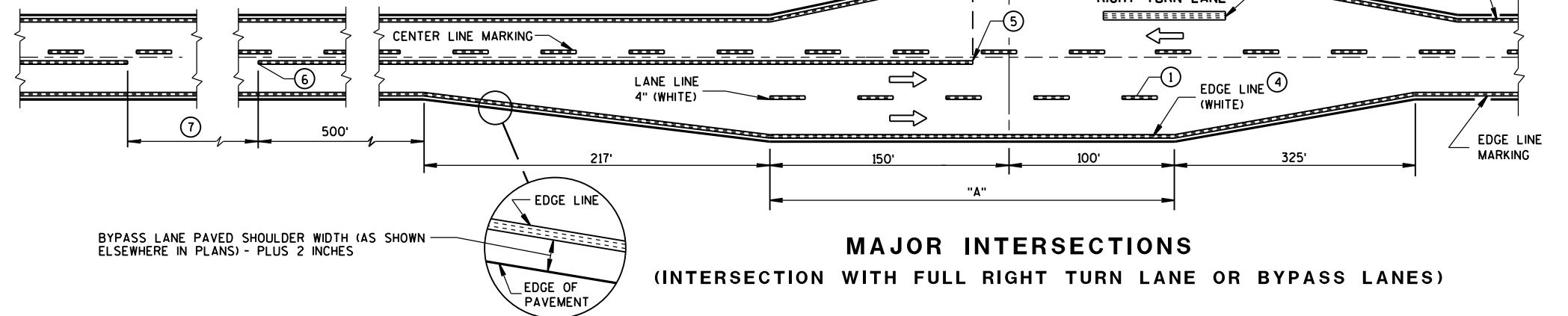
/S/ Travis Feltes
STATE TRAFFIC ENGINEER



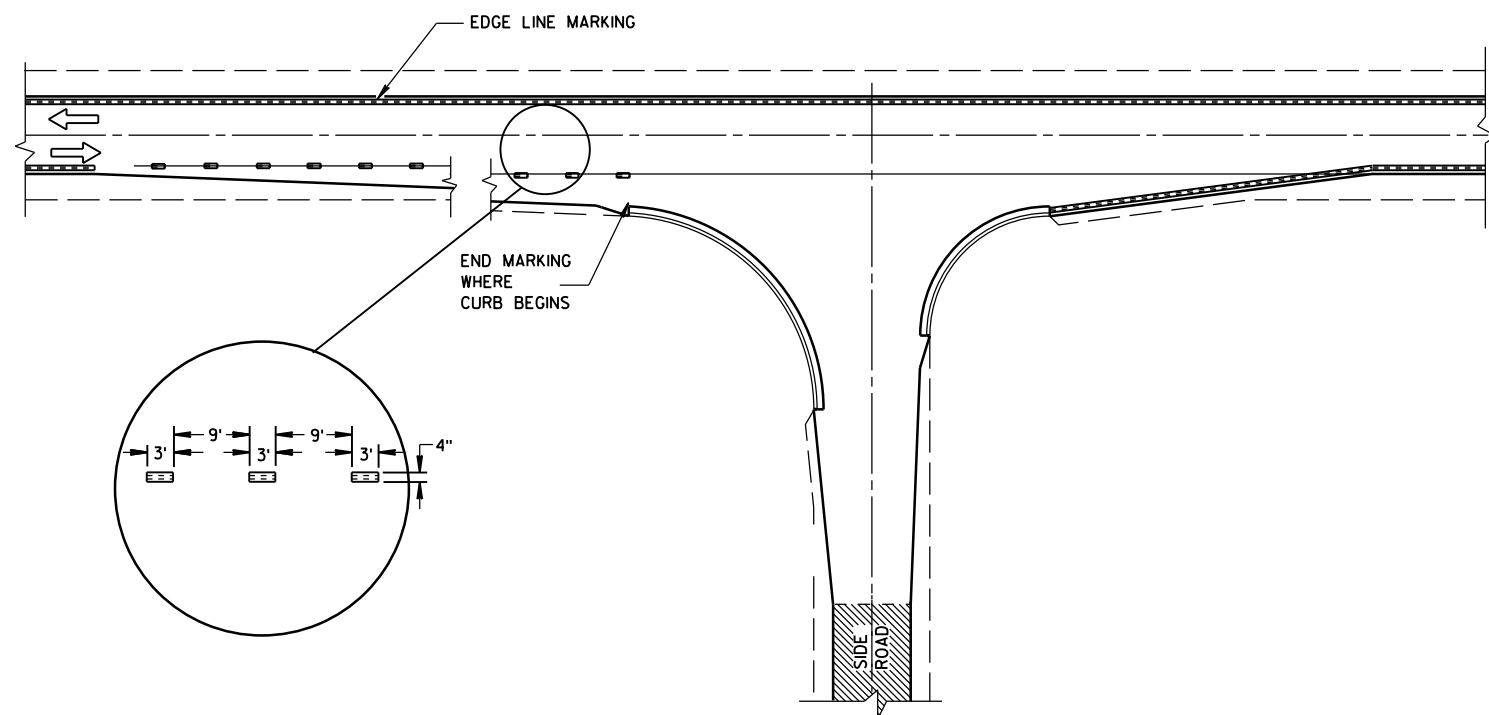
MINOR INTERSECTION WITHOUT CURBS

⑦

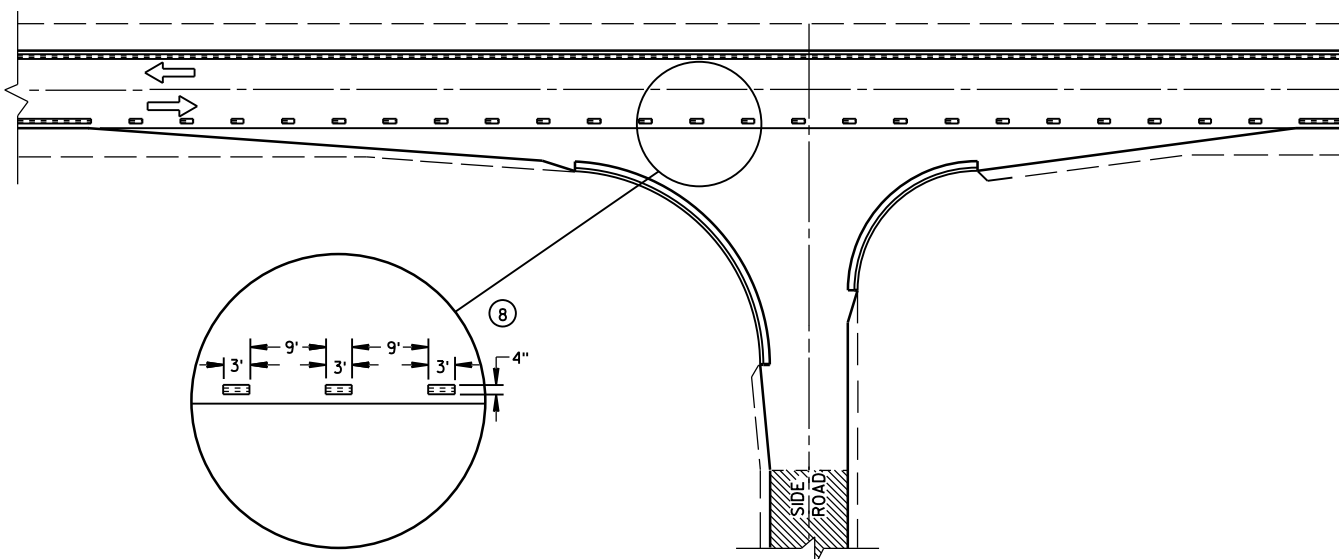
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



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



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



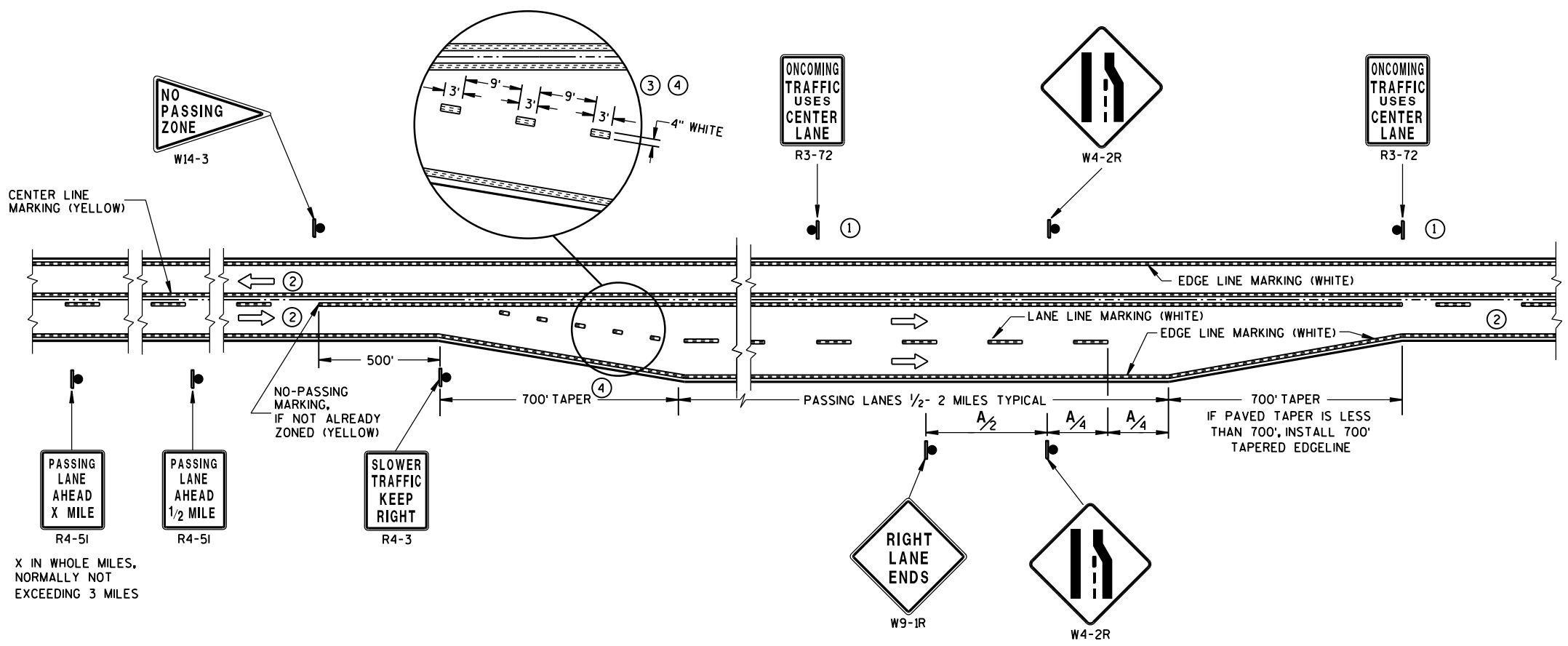
MINOR INTERSECTION WITH CURBS
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

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

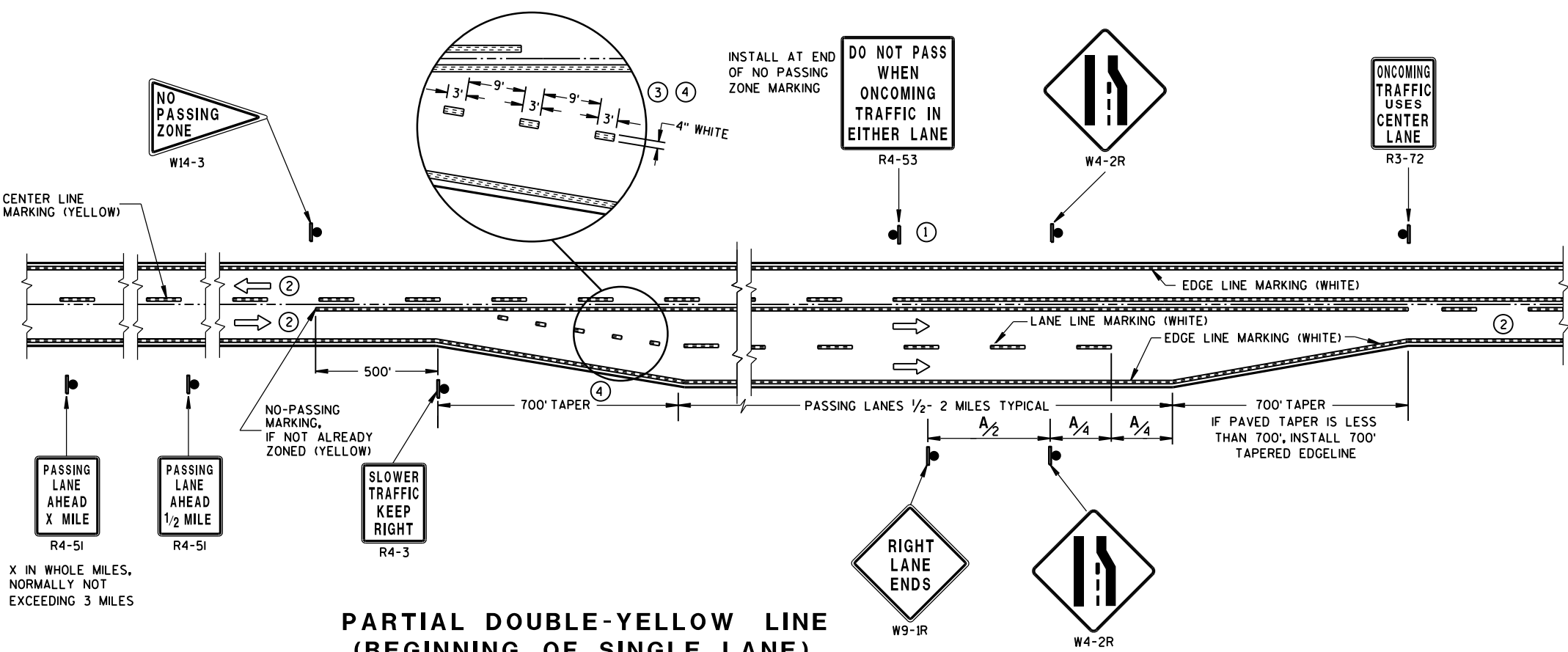
GENERAL NOTES

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

ARROW SYMBOL (➡) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

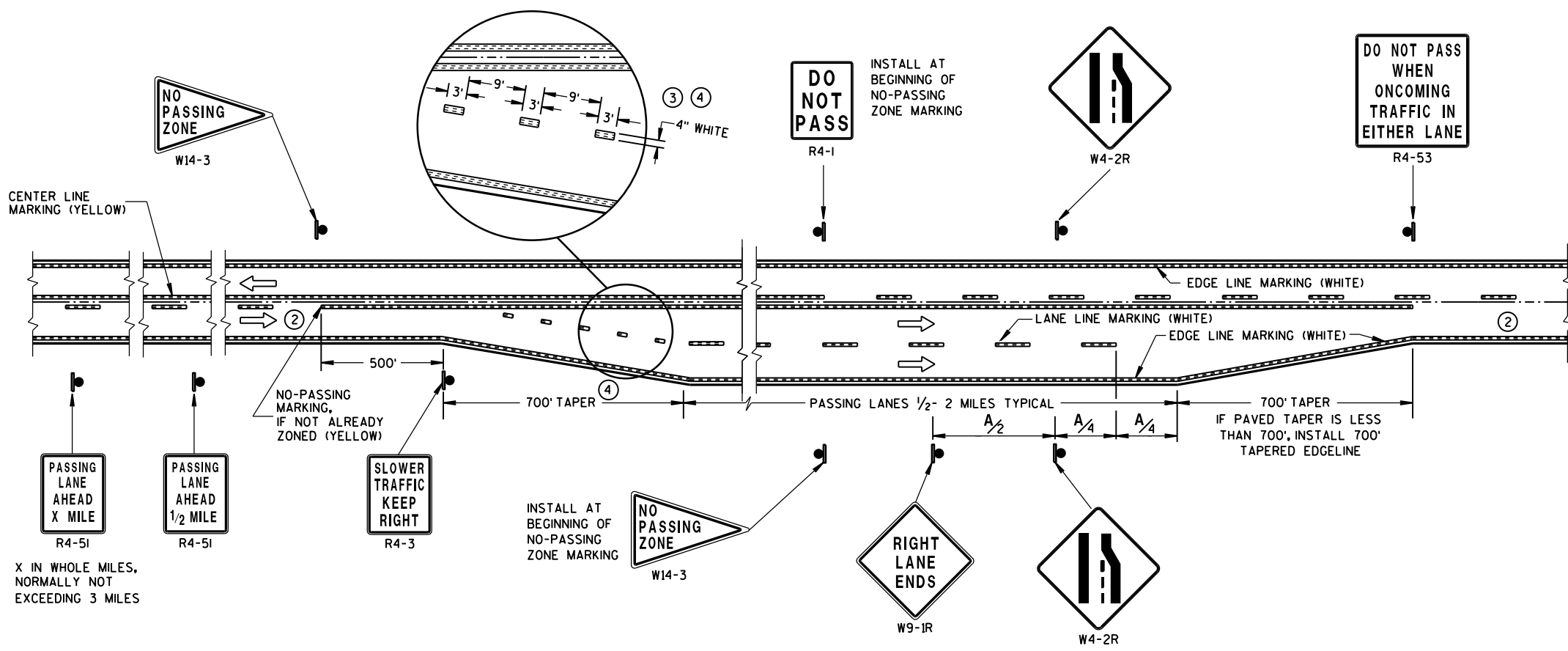
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950



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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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

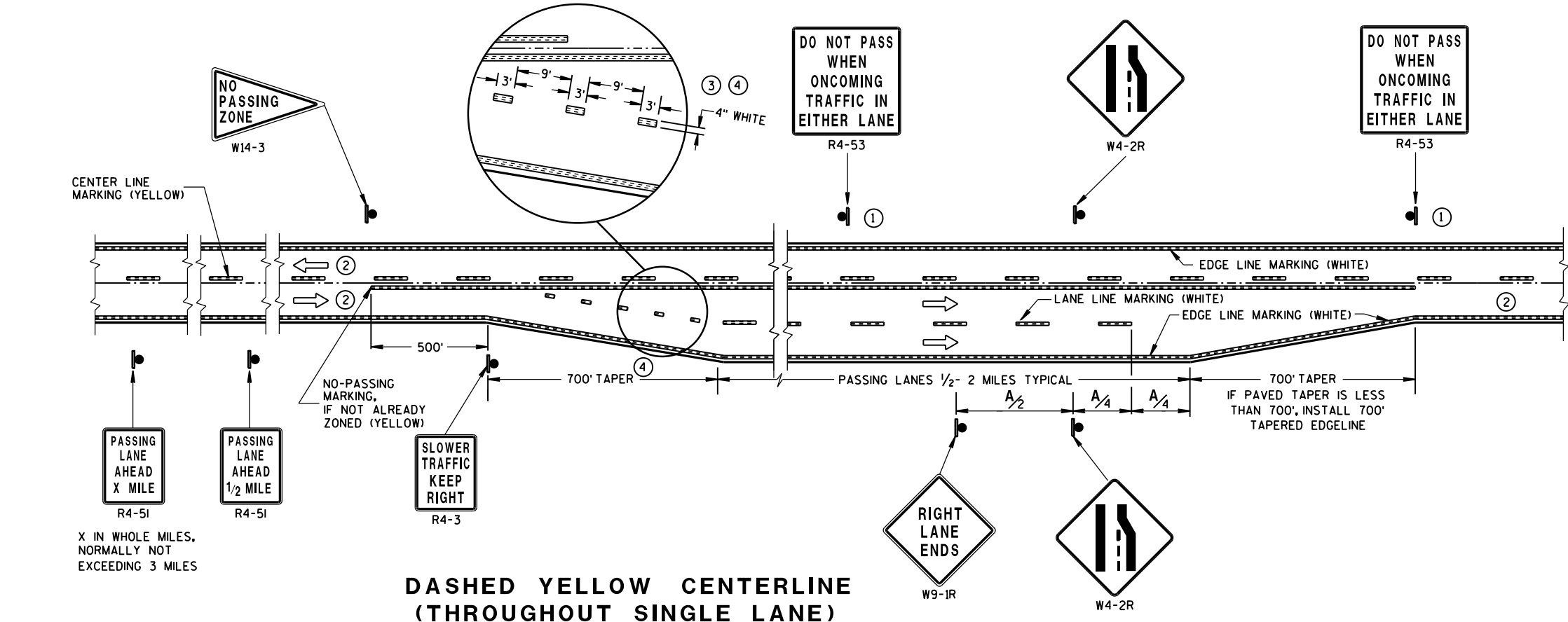
GENERAL NOTES

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

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

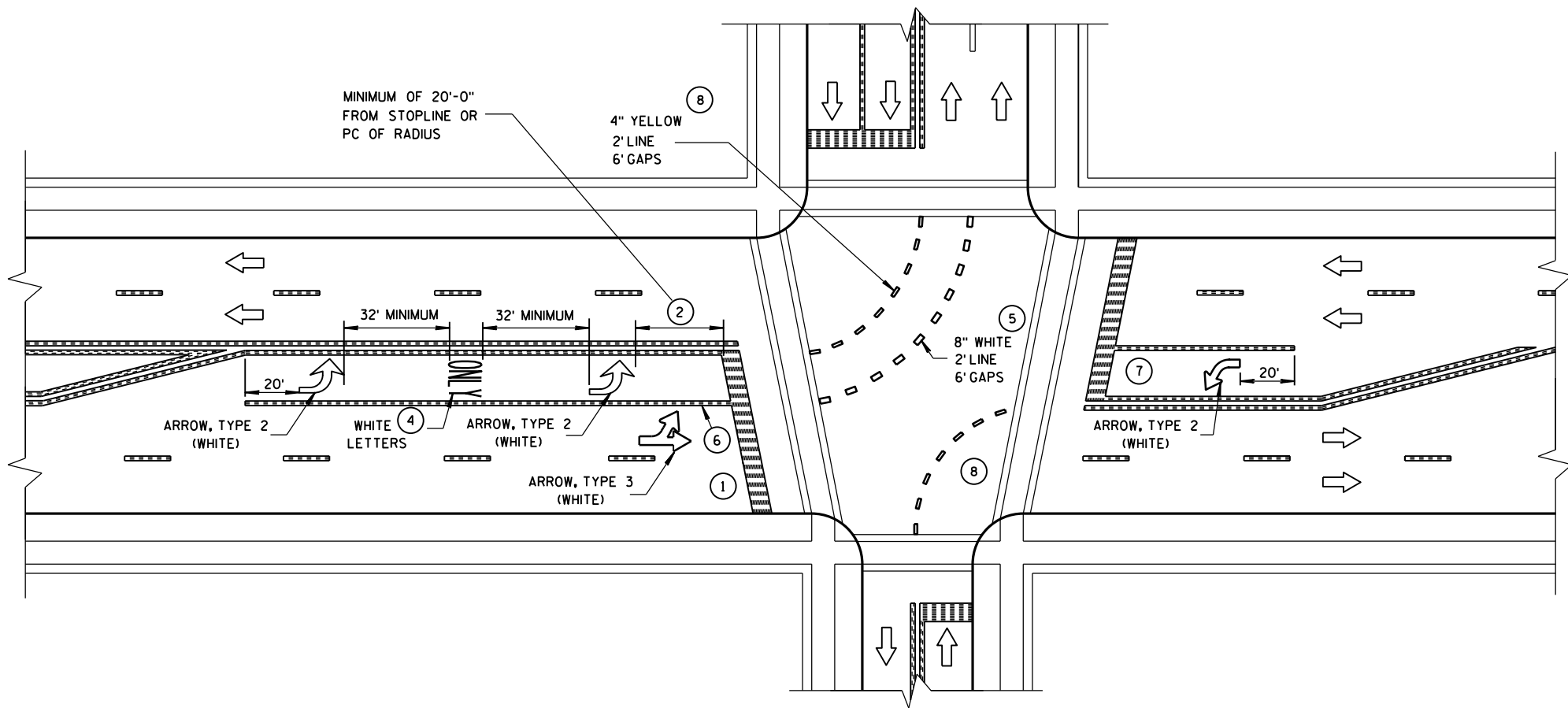
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950



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

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

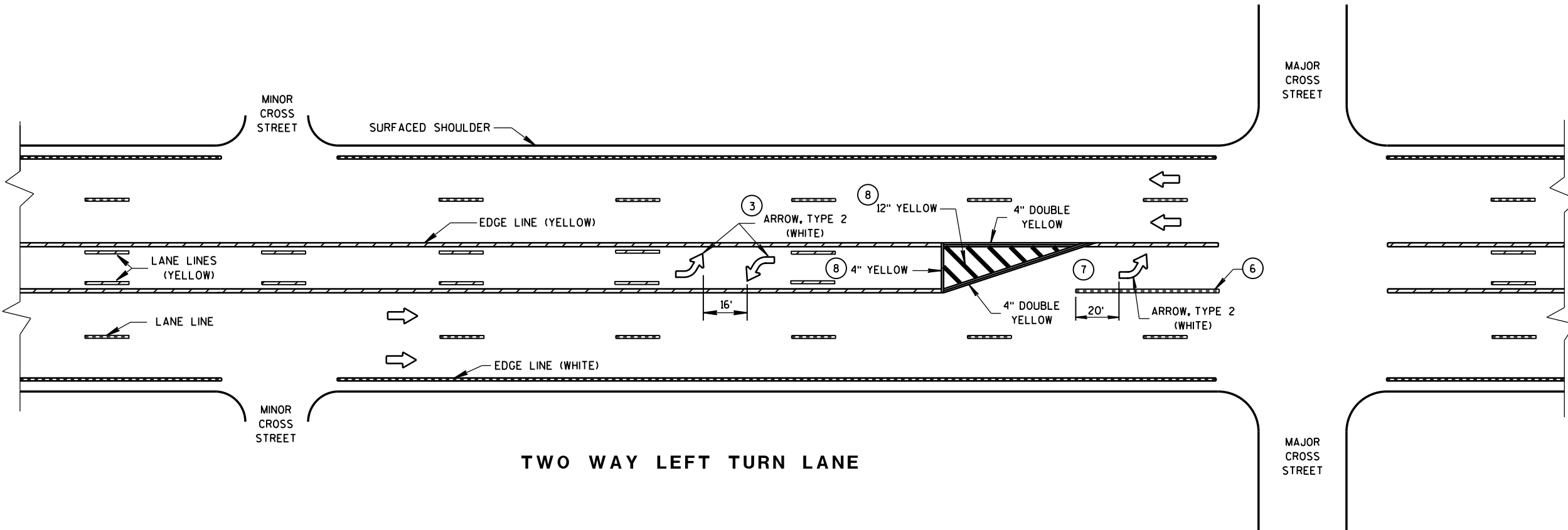
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

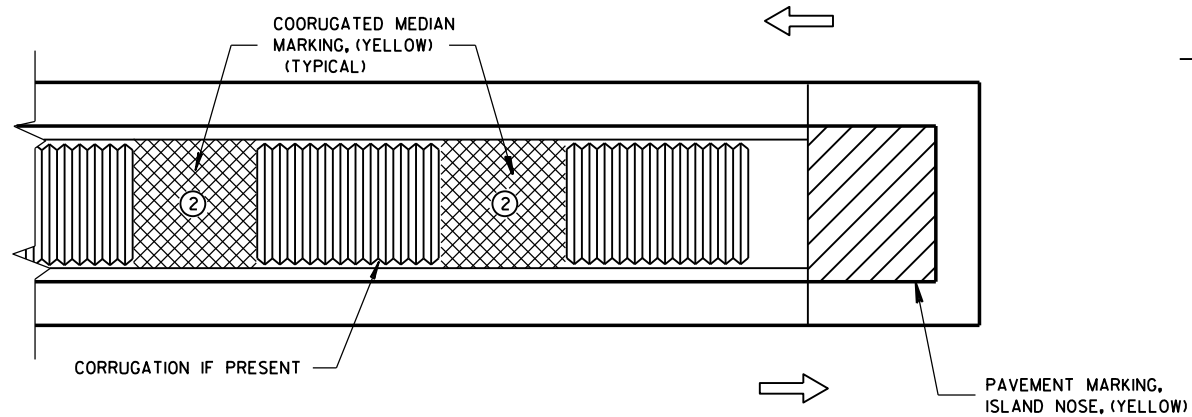
- 1 STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- 2 DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
- 3 A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- 4 ADD EXTRA SETS OF ONE ARROW AND ONE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

NOTE:
ARROW SYMBOL (➡)
SHOWS DIRECTION OF TRAVEL

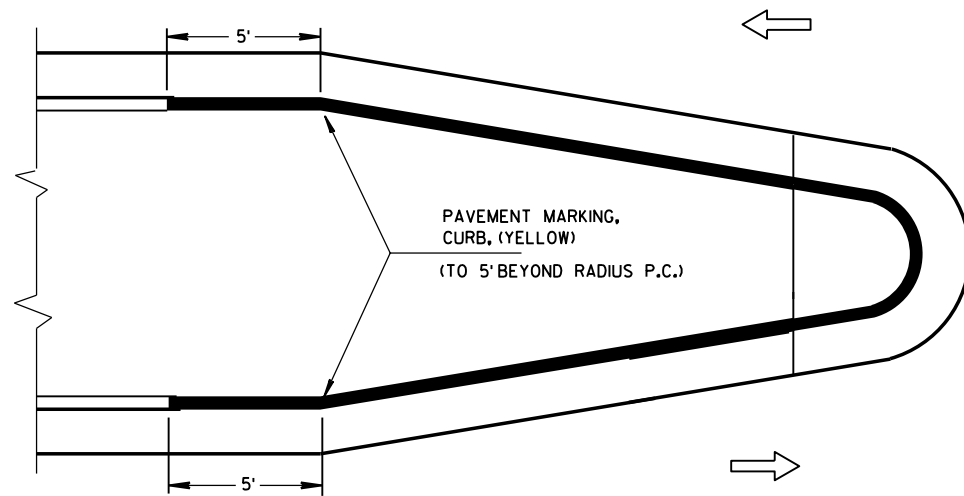


PAVEMENT MARKING
(LEFT TURN LANE)

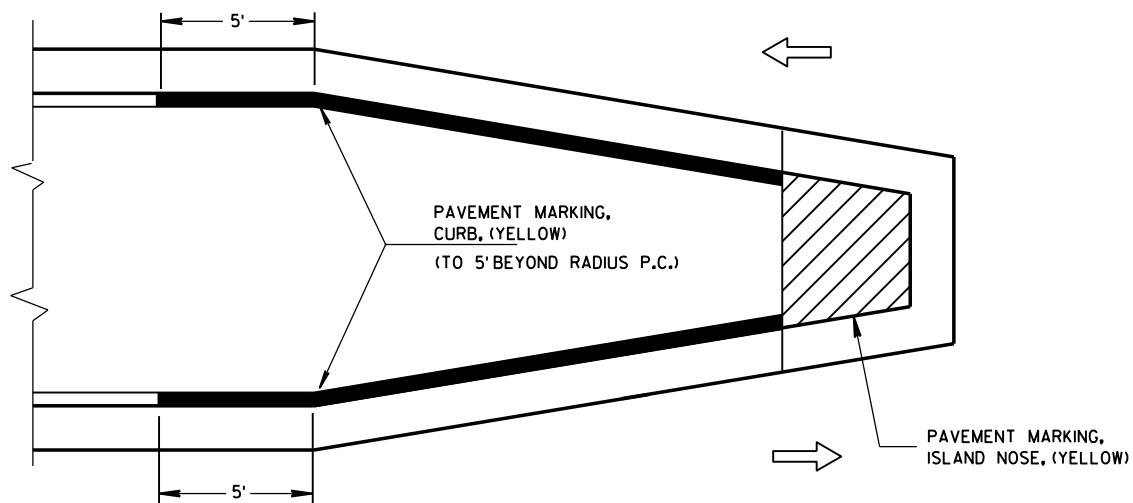
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

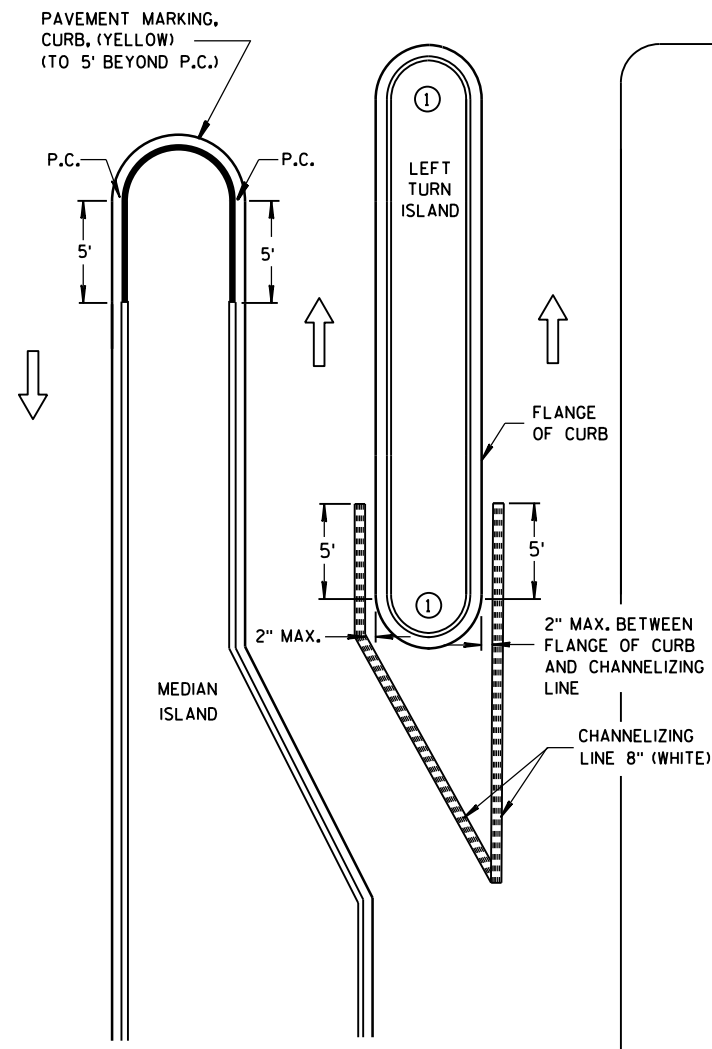


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

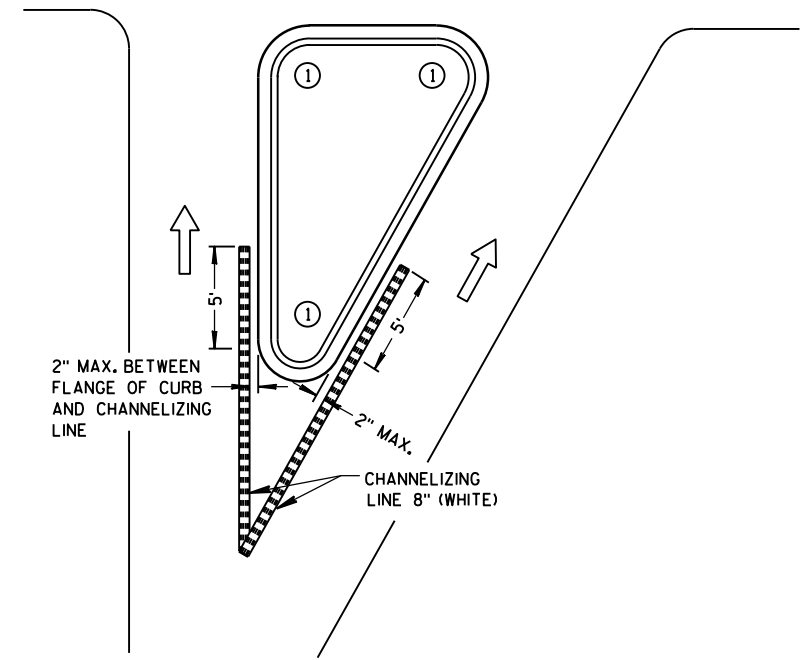
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

- DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
- WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND 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

LEGEND

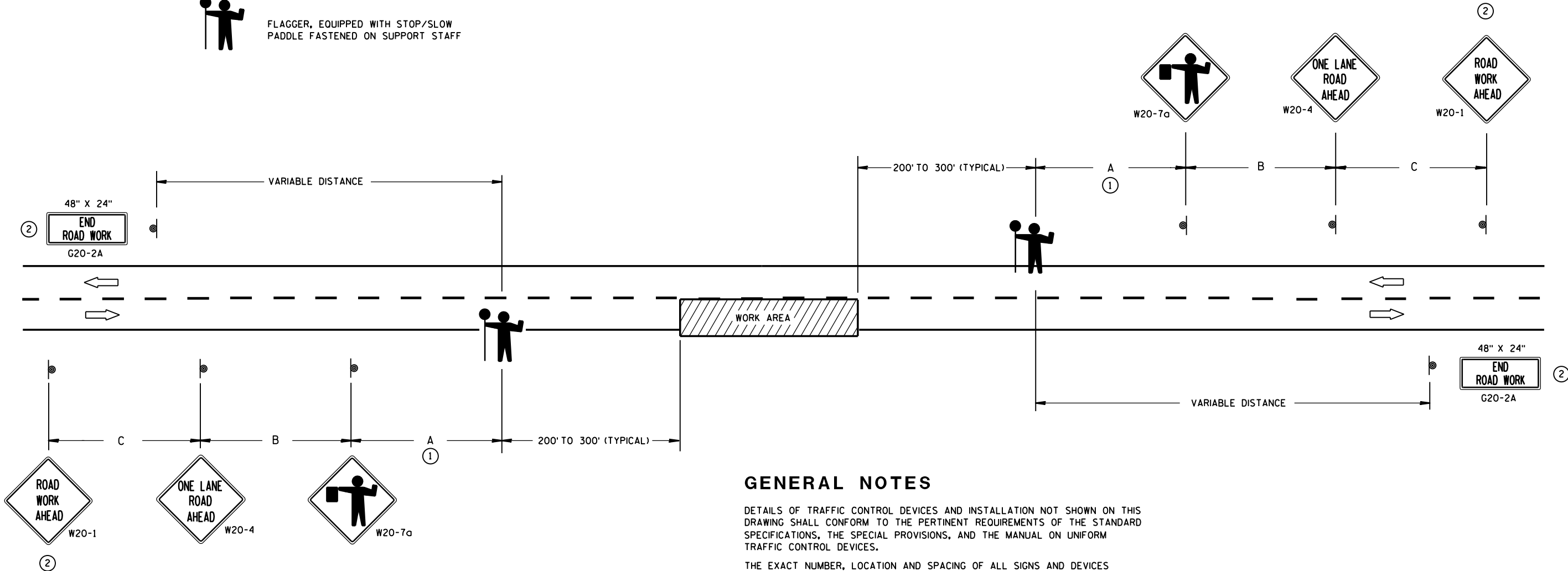
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



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.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

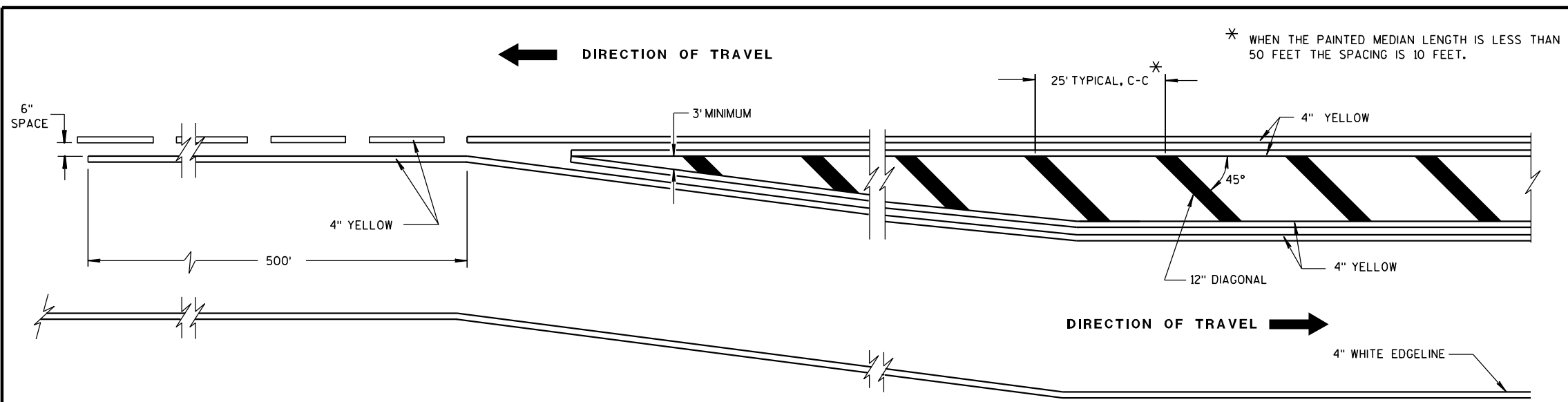
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- ① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

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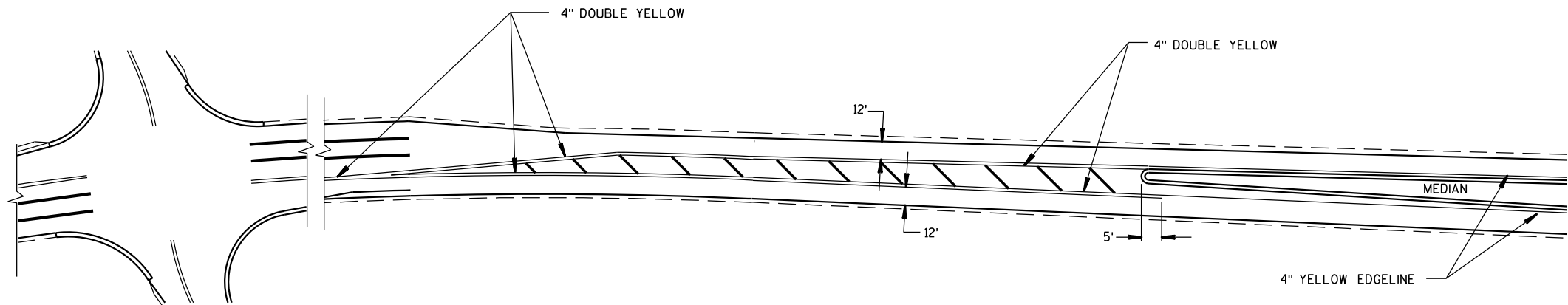
APPROVED
8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



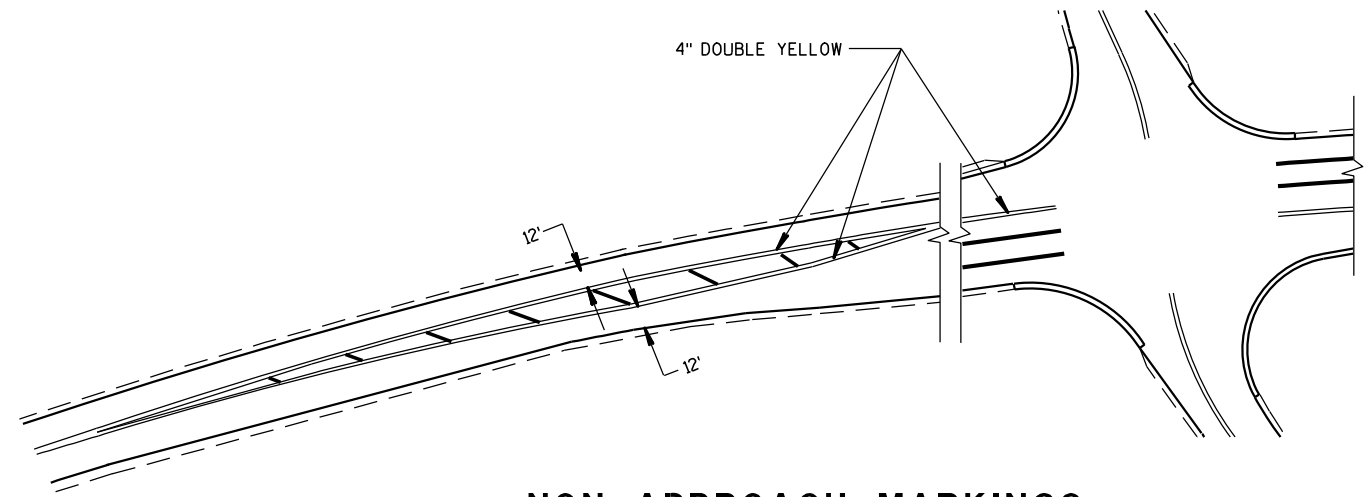
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

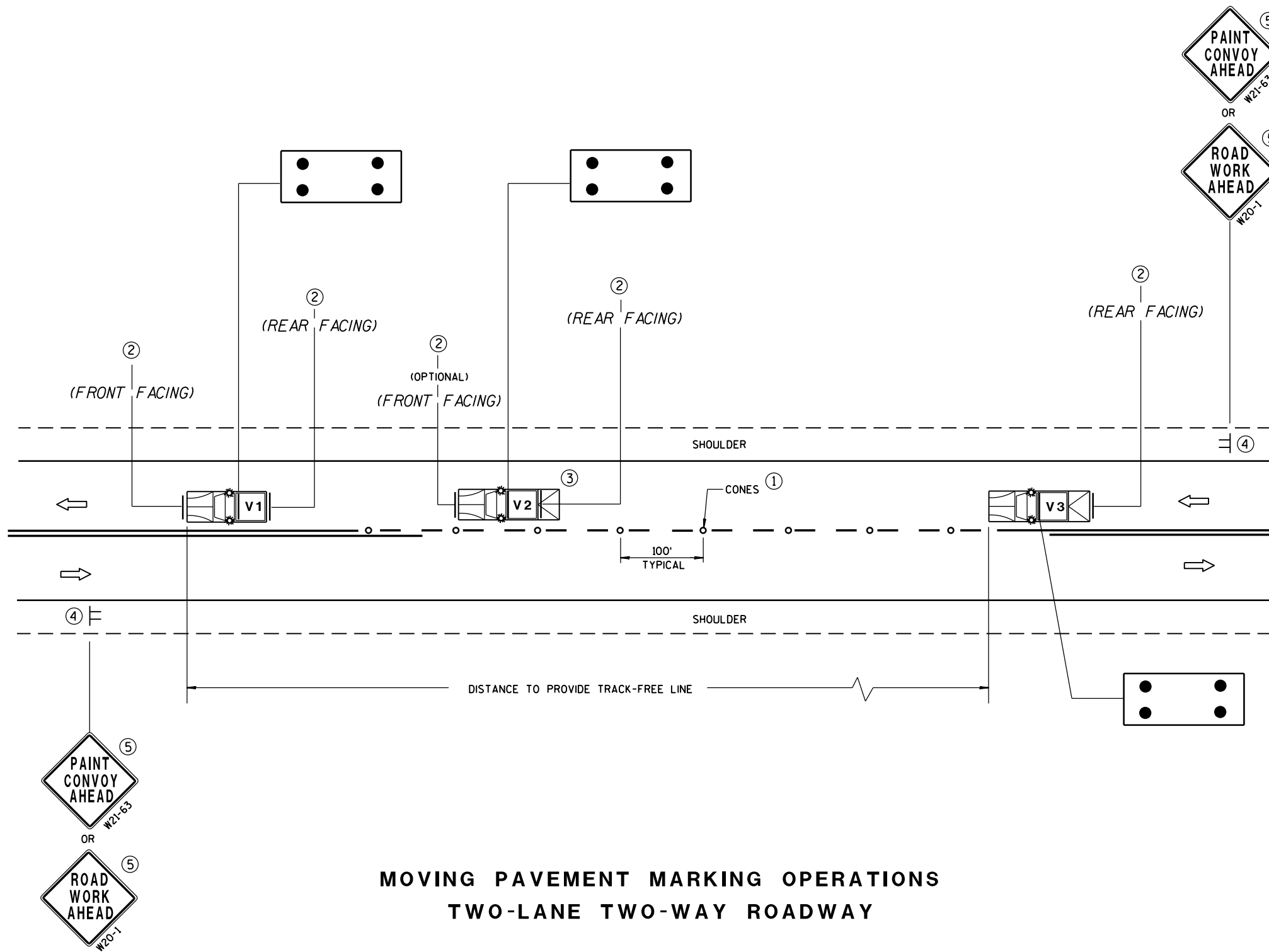


APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Notbohm STATE TRAFFIC ENGINEER OF DESIGN
FHWA	



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY 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.

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

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

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.

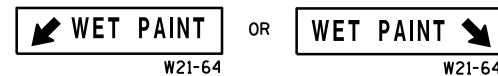
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

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

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 APPROXIMATELY 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 TEMPORARY SUPPORT

 DIRECTION OF TRAFFIC

 CONES

 FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING
OPERATION
TWO-LANE TWO-WAY ROADWAY

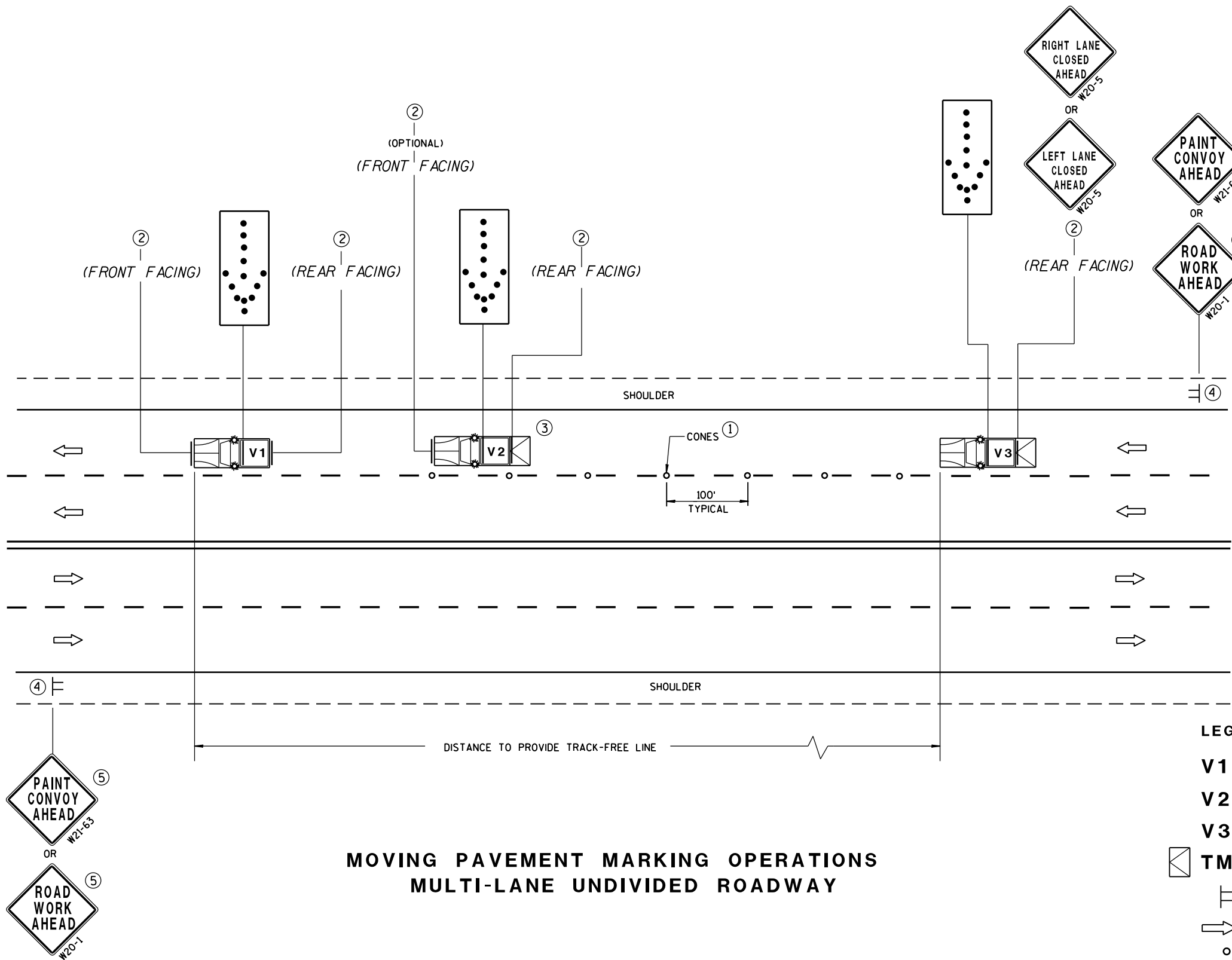
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/3/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

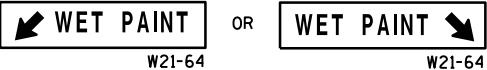


MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE UNDIVIDED ROADWAY

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.
- WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.
- THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE OR LANELINE MARKING FOR MULTILANE UNDIVIDED 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 APPROXIMATELY EVERY THREE MILES.
- ⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.



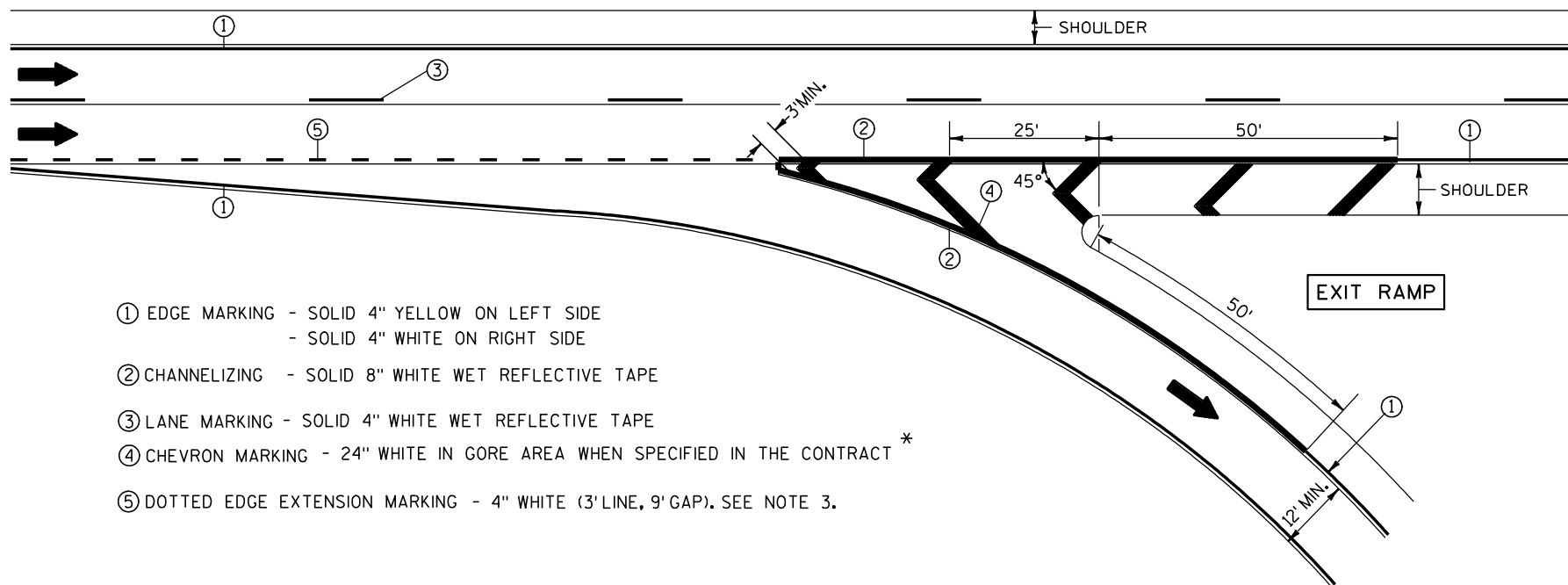
LEGEND

- V1 LEAD VEHICLE
- V2 SHADOW VEHICLE
- V3 TRAIL VEHICLE WITH TMA
- TMA TRUCK-MOUNTED ATTENUATOR
- Sign on temporary support
- Direction of traffic
- Cones
- Flashing arrow panel (merge)

MOVING PAVEMENT MARKING
OPERATION
MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/3/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER
FHWA

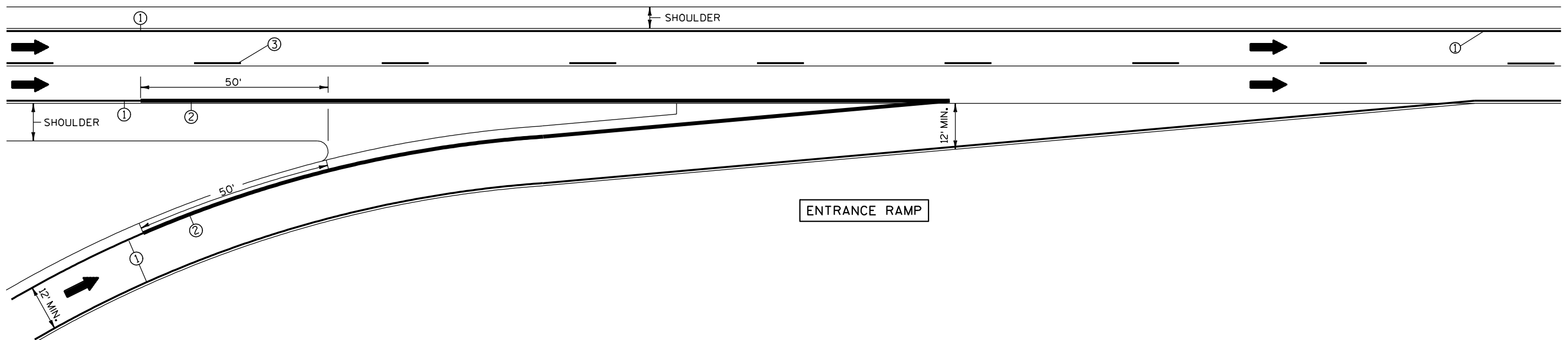


- ① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
- SOLID 4" WHITE ON RIGHT SIDE
- ② CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE
- ③ LANE MARKING - SOLID 4" WHITE WET REFLECTIVE TAPE
- ④ CHEVRON MARKING - 24" WHITE IN GORE AREA WHEN SPECIFIED IN THE CONTRACT *
- ⑤ DOTTED EDGE EXTENSION MARKING -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

NOTES:

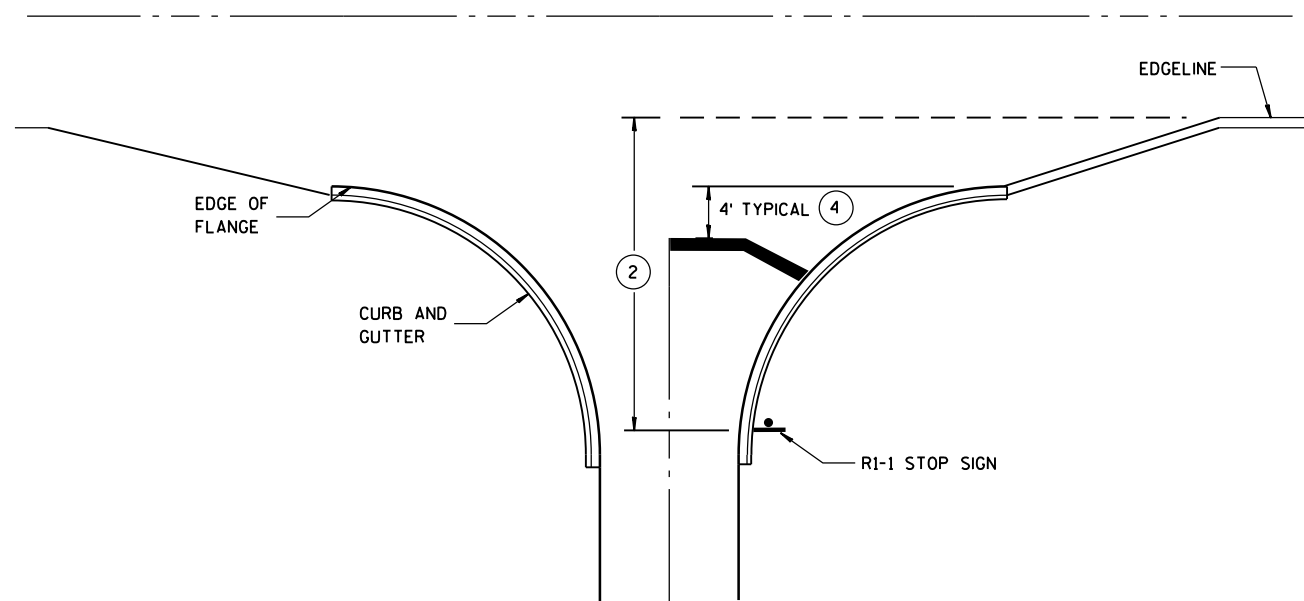
- 1. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
- 2. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.
- 3. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- 4. RETRACE EXISTING DIAGONAL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

* REFER TO DESIGN NOTES.

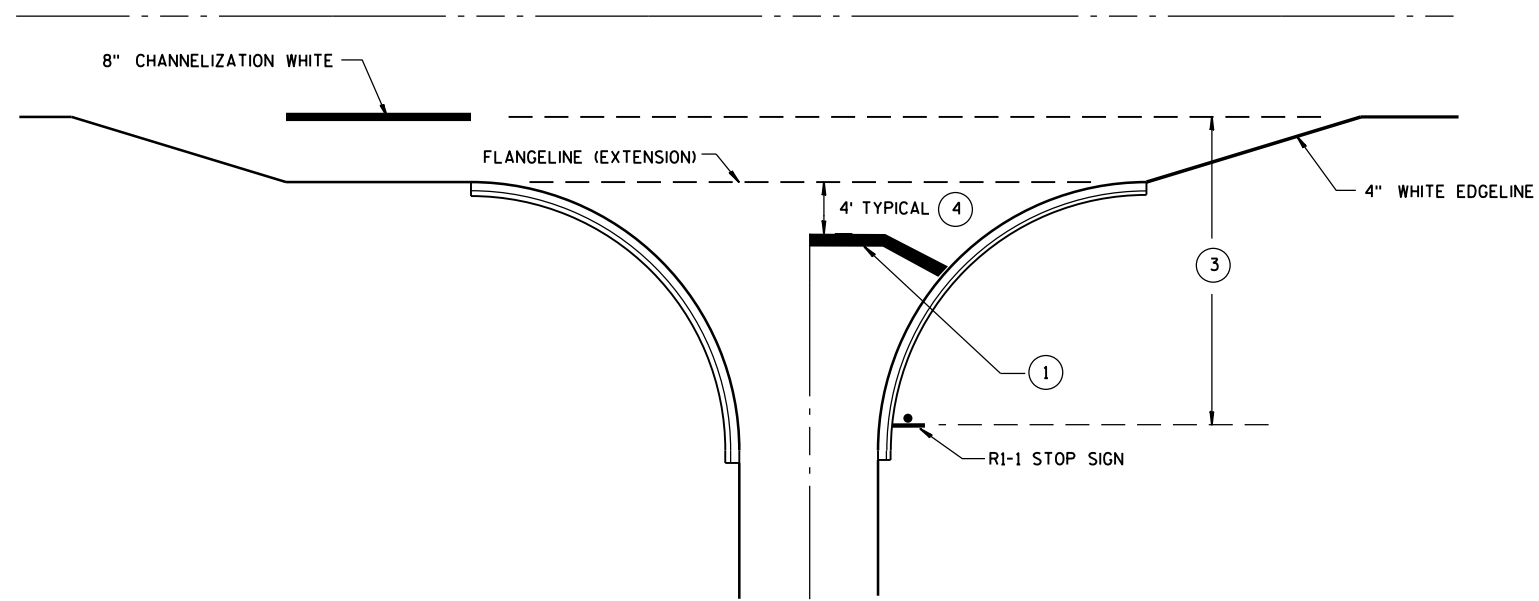


PAVEMENT MARKING
(RAMPS AND GORES)

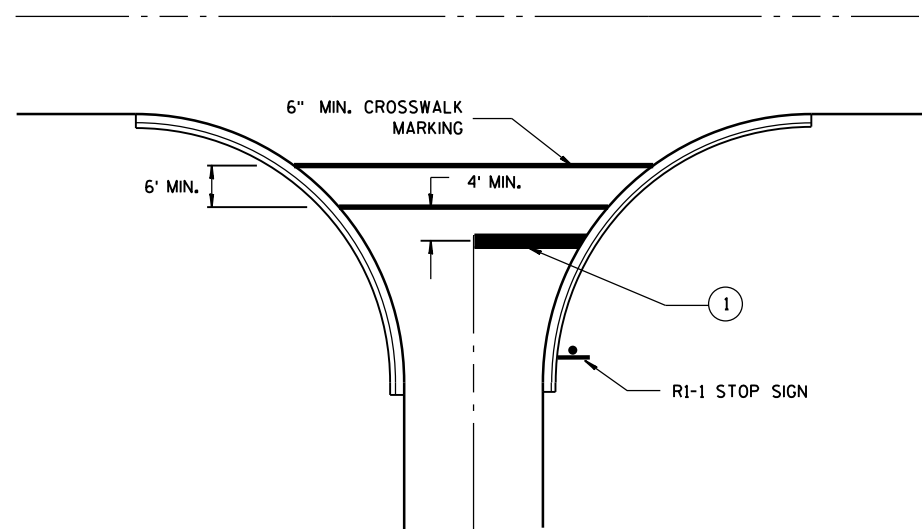
STATE OF WISCONSIN
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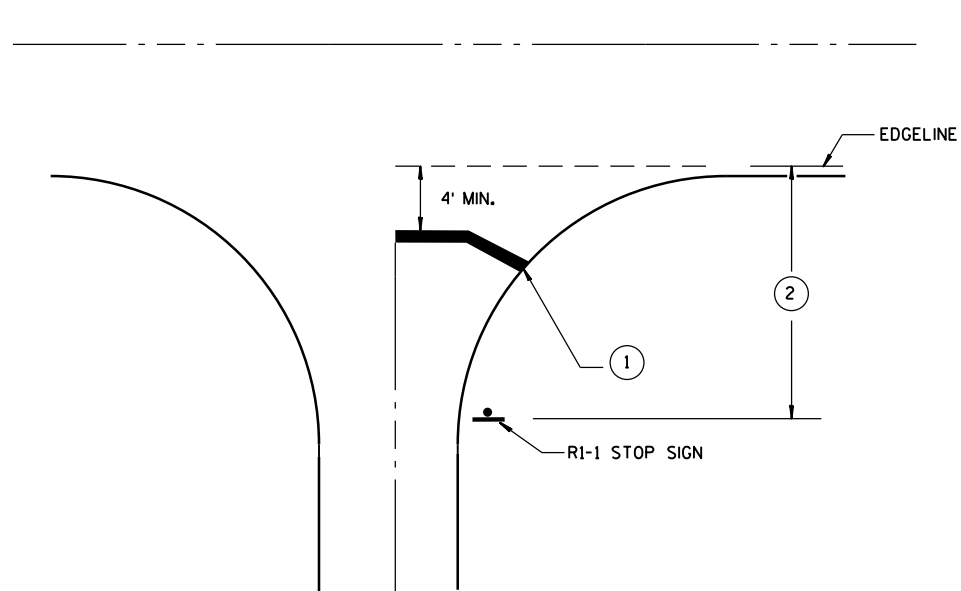
**TYPICAL STOP LINE PAVEMENT MARKING
WITH CURB AND GUTTER**



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



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



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

GENERAL NOTES

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

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

FHWA

/S/ Travis Feltz
STATE TRAFFIC ENGINEER

Notes



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