

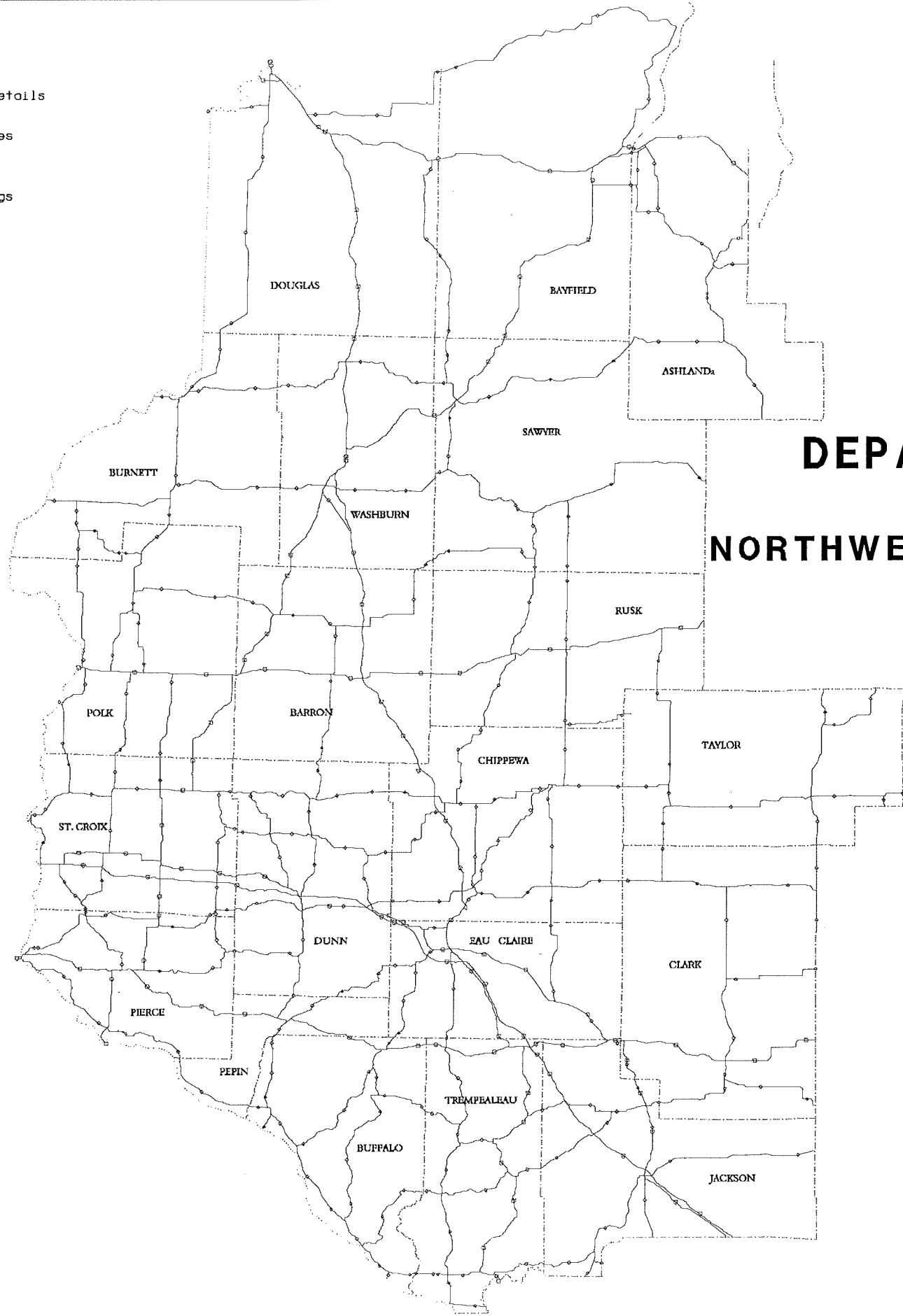
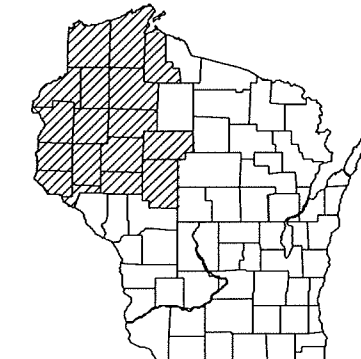
PROJECT ID: 1000-08-32

COUNTY: N.W. REGION

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. 5	Plan and Profile
Section No. 6	Standard Detail Drawings

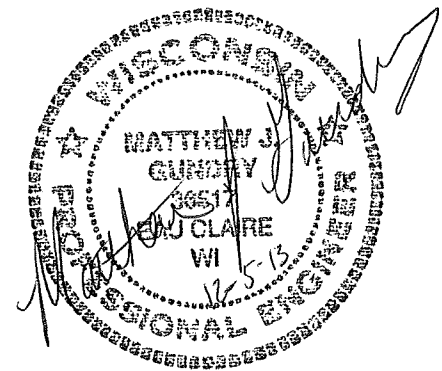
TOTAL SHEETS = 34



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
NORTHWEST REGION PAVEMENT MARKING 2014
VARIOUS HIGHWAYS
NORTHWEST REGION WIDE

STATE PROJECT NUMBER
1000-08-32

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1000-08-32	WISC 2014117	1



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	NORTHWEST REGION
Designer	FAA, INC.
Project Manager	CHLOE ANDERSON
District Examiner	DANIEL OJBWAY
District Supervisor	ROBERT ANDERSON
C.O. Examiner	
APPROVED FOR DISTRICT OFFICE	
DATE: 12/11/13	<i>Robert Anderson</i> (signature)

NORTHWEST REGION TRAFFIC CONTACTS

LT. NICK WARNINK
SGT. STEVE TAPE (EXT. 108) - SPEED ENFORCEMENT BARS
STATE PATROL DIVISION OF DISTRICT 6
5009 USH 53 SOUTH.
EAU CLAIRE, WI 54701
PHONE (715) 839-3800

I94 WB DUNN CO. SCALE
PHONE (715) 235-4581
I94 EB ST. CROIX CO. SCALE
PHONE (715) 749-3744
REBECCA GRANGAAD - CHANGEABLE MESSAGE SIGN COORDINATION
STATE PATROL
PHONE (715) 839-3800

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
1300 W. CLAIREMONT AVE.
EAU CLAIRE, WI 54701
PHONE (715) 839-3700

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
810 W. MAPLE STREET
SPOONER, WI 54801
PHONE (715) 635-2101

CHLOE ANDERSON
WISCONSIN DEPARTMENT OF TRANSPORTATION
5009 USH 53 SOUTH
EAU CLAIRE, WI 54701
PHONE (715) 855-7672
CELL (715) 577-4493

ROBERT ANDERSON
WISCONSIN DEPARTMENT OF TRANSPORTATION
718 W. CLAIREMONT AVE.
EAU CLAIRE, WI 54701
PHONE (715) 833-5361

RAILROAD CONTACTS

BNSF RAILWAY COMPANY
DAVID JOHNSON, MANAGER PUBLIC PROJECTS
80 44TH AVE NE
MINNEAPOLIS, MN 55421
TELEPHONE 763-782-3495
FAX 763-782-3061
EMAIL David.Johnson7@BNSF.com

WISCONSIN CENTRAL LTD.
JACKIE MACEWICZ, MANAGER PUBLIC WORKS
1625 DEPOT ST.
STEVENS POINT, WI 54481
TELEPHONE (715) 345-2503
FAX (715) 345-2534
EMAIL jackie.macewicz@cn.ca

SOO LINE RAILROAD COMPANY
D/B/A CANADIAN PACIFIC RAILWAY COMPANY (CP)
JIM KRIEGER, MANAGER PUBLIC WORKS
CANADIAN PACIFIC BATTLE CREEK BUILDING
1010 SHOP ROAD
ST. PAUL, MN 55106
TELEPHONE (651) 772-5974
EMAIL jim_krieger@cpr.ca

GENERAL NOTES

- THE DEPARTMENT WILL MEASURE REMOVING PAVEMENT MARKINGS BY THE LINEAR FOOT OF 4-INCH WIDE LINE, IF REMOVING 8-INCH LINE, DOUBLE THE QUANTITY
- THE CONTRACTOR SHALL FURNISH MATERIALS FROM THE WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED LISTS.
- THE CONTRACTOR AT NO TIME SHALL CLOSE OFF AN ENTIRE RAMP. RAMPS MUST BE DONE ONE HALF AT A TIME.
- PAINTED SURFACES SHALL BE FREE OF DEBRIS AS STATED IN SECTION 646 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- THE CONTRACTOR SHALL GIVE A ONE WEEK MINIMUM PRIOR NOTICE TO STATE PATROL CONTACT FOR THE COORDINATION OF THE LOCATION OF SPEED ENFORCEMENT LINES.
- PAVEMENT MARKINGS SHALL NOT BE PAINTED THROUGH SIGNALIZED INTERSECTIONS OR THROUGH INTERSECTIONS WHERE TWO STATE TRUNK HIGHWAYS JUNCTION.
- DASHES, PAINTED THRU INTERSECTION SHALL MATCH THE EXISTING CYCLE.
- IF ASSIGNED TO PAINT A RAMP, PAINT BOTH SIDES OF THE GORE, GORES ARE PAINTED WITH RAMPS.

DIGGERSHOTLINE

Dial 811 or (800)242-8511

www.DiggersHotline.com

LARGE COLOR MAPS AVAILABLE UPON REQUEST

MAP REF#	MILES	COUNTY	HWY	1000-08-32			NO TIME RESTRICTIONS	PAINTING ALLOWED SUNDAY THRU THURSDAY 9 PM - 5 AM	NO LANE CLOSURE PAINTING ALLOWED TUES, WED, THURS 6 PM - 3 PM	NO LANE CLOSURE PAINTING ALLOWED TUES, WED, THURS 7 PM - 2:30 PM	NO LANE CLOSURE PAINTING ALLOWED TUES, WED, THURS 7 PM - 4 AM OR 8:30 AM - 2:30 PM	PAINTING ALLOWED SUNDAY THRU THURSDAY 12 AM - 5 AM	PORTABLE CHANGEABLE MESSAGE SIGN WITH CELLULAR COMMUNICATIONS	WISCONSIN LANE CLOSURE SYSTEM ADVANCE NOTIFICATION 5 BUSINESS DAYS
601	14.9	EC/DUNN	I 94 EB	MILE POST 44 (FROM CONCRETE)	USH 12 / STH 312 / EXIT 59 (NEW ASPHALT)	---	---	X	---	---	---	---	X	X
	14.9		I 94 WB	USH 12 / STH 312 / EXIT 59 (NEW ASPHALT)	MILE POST 44 (TO CONCRETE)	---	---	X	---	---	---	---	X	X
			RAMPS:	(4) CTH B / EXIT 45 WEIGH STATION / ASPHALT AREA ONLY (4) USH 12 / STH 29 / STH 40 / EXIT 52 / ASPHALT AREA ONLY (1) WB ON RAMP USH 12 / STH 312 / CTH EE / EXIT 59										
602	17.5	ST CROIX	I 94 EB	STH 65 / EXIT 10 / ON RAMP / EAST SIDE (FROM CONCRETE)	STH 128 / EXIT 28 / OFF RAMP / WEST SIDE	---	---	---	X	---	---	---	X	X
	17.5	ST CROIX	I 94 WB	STH 128 / EXIT 28 / ON RAMP / WEST SIDE	STH 65 / EXIT 10 / OFF RAMP / EAST SIDE (TO CONCRETE)	---	---	---	---	X	---	---	X	X
			RAMPS:	(4) CTH T / EXIT 16 (4) USH 63 / EXIT 19 (4) CTH B / EXIT 24 (4) STH 128 / EXIT 28										
603	3.0	ST CROIX	STH 29	STH 128	ST CROIX / DUNN CO LINE	X	---	---	---	---	---	---	---	---
604	5.8	PIERCE	STH 29	USH 63 SOUTH	CTH CC / SPRING VALLEY	X	---	---	---	---	---	---	---	---
605	11.2	TREMPEALEAU	USH 53	SOUTH END OF BRIDGE DECK / SHEPARD RD / PIGEON FALLS	USH 10 EAST / OSSEO	X	---	---	---	---	---	---	---	---
601	11.4	POLK	STH 46	USH 8 WEST	STH 35	X	---	---	---	---	---	---	---	---
602	9.1	POLK	USH 8	EAST SIDE OF APPLE RIVER BRIDGE (WEST OF STH 46 SB)	STH 35 NB (TO CONCRETE) / ST CROIX FALLS	X	---	---	---	---	---	---	---	X
603	1.9	POLK	STH 35	CTH W EAST / FREDERIC	422' NORTH OF POLK AVE / FREDERIC	X	---	---	---	---	---	---	---	---
604	8.9	ASHLAND	USH 2	RIVER RD / WEST END OF BRIDGE	ASHLAND / IRON CO LINE	X	---	---	---	---	---	---	---	X
605	1.2	DOUGLAS	STH 35	SOUTH SUPERIOR CITY LIMITS / N 64TH ST	510' NORTH OF 52ND ST / SUPERIOR	---	X	---	---	---	---	---	---	---
606	4.6	DOUGLAS	STH 105	MINNEAPOLIS AVE / TOWN OF OLIVER	ZONE CHANGE	X	---	---	---	---	---	---	---	---
607	7.2	DOUGLAS	USH 2 EB	KELLOGG RD	SUPERIOR CITY LIMITS (START OF CURB & GUTTER)	X	---							
	7.2		USH 2 WB	SUPERIOR CITY LIMITS (START OF CURB & GUTTER)	KELLOGG RD			---	---	---	---	---	---	---
			RAMPS:	(4) STH 13 / CTH Z WEIGH STATION (EXIT / ENTRY GORES ONLY) REST AREA (EXIT / ENTRY GORES ONLY) X- OVER AT CTH C										
				SPECIAL MARKING LOCATIONS										
47A		CHIPPEWA	STH 124	BUSINESS 29 ROUNDABOUT		---	---	---	---	---		X	X	X
47B		CHIPPEWA	STH 124	BUSINESS 29 ROUNDABOUT		---	---	---	---	---		X	X	X
47D		CHIPPEWA	STH 124	BUSINESS 29 ROUNDABOUT		---	---	---	---	---		X	X	X
1000		DOUGLAS	STH 35	N 69TH ST / SUPERIOR SOUTH CITY LIMITS	510' NORTH OF 52ND ST / SUPERIOR	---	X	---	---	---	---	---	---	---

WORK TIME RESTRICTIONS & TRAFFIC CONTROL

REGION WIDE - NO WEEKEND OR NO NIGHT PAINTING, EXCEPT AS NOTED IN PLAN OR WITH PROJECT ENGINEER'S PRE-APPROVAL

REGION WIDE -NO PAINTING DURING HOLIDAY TIME PERIODS.

FROM 5 AM FRIDAY, MAY 23, 2014 TO 5 AM WEDNESDAY, MAY 28, 2014
FROM 5 AM THURSDAY, JULY 3, 2014 TO 5 AM TUESDAY, JULY 8, 2014
FROM 5 AM FRIDAY, AUGUST 29, 2014 TO 5 AM WEDNESDAY, SEPTEMBER 3, 2014

GENERAL TRAFFIC CONTROL NOTES:

WISCONSIN LANE CLOSURE SYSTEM ADVANCE NOTIFICATION - GIVE A FIVE WORKING DAY MINIMUM ADVANCE NOTICE TO THE PROJECT ENGINEER

TRAFFIC CONTROL SIGNS PCMS - UNITS SHALL BE USED FOR ALL NIGHTTIME WORK OPERATIONS ON USH 8, USH 12, USH 53, STH 29,STH 35, STH 93,STH 312

TRAFFIC CONTROL SIGNS PCMS - UNITS SHALL BE USED FOR ALL DAYTIME OR NIGHTTIME WORK OPERATIONS ON INTERSTATE 94.

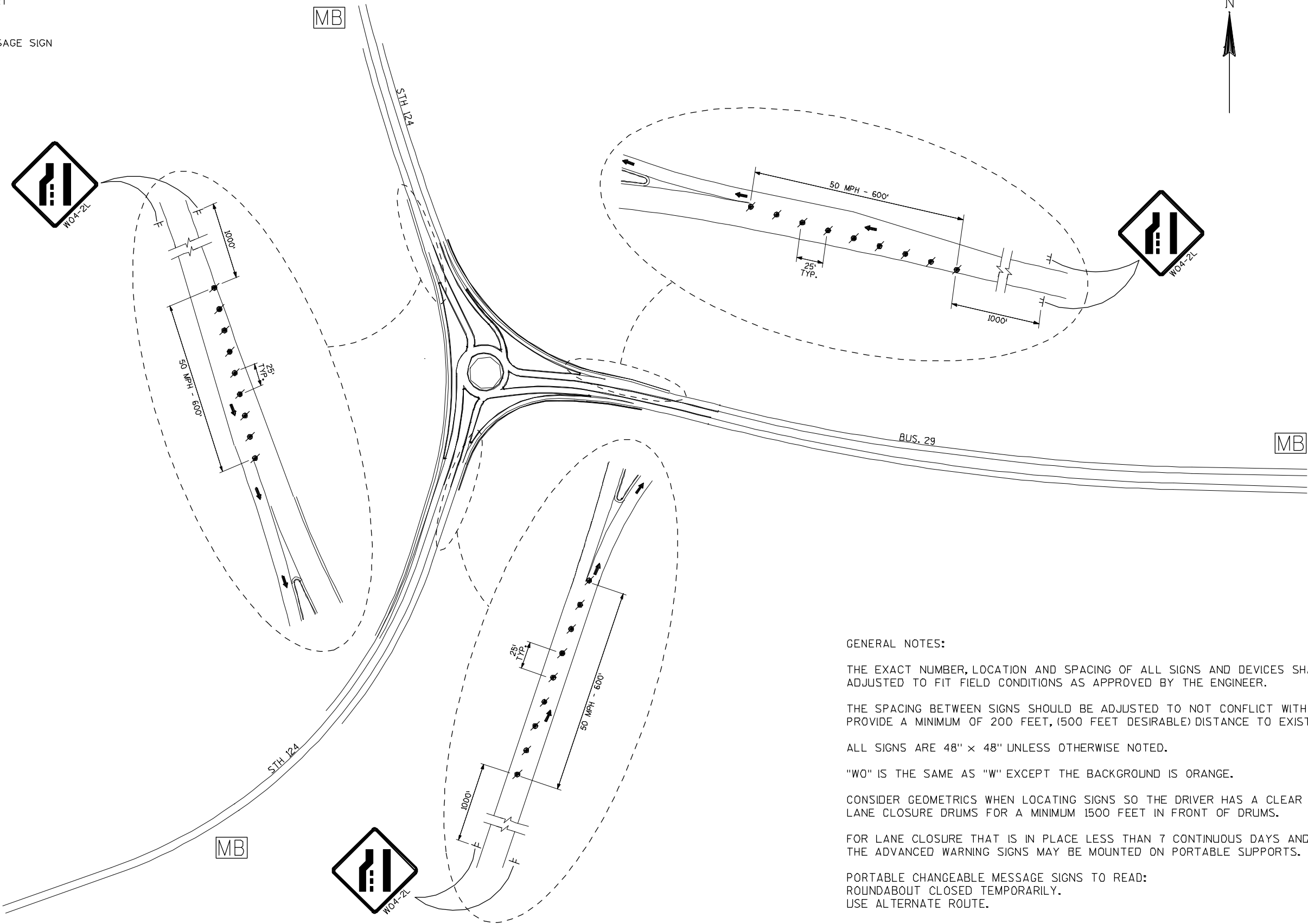
INTERSTATE 94 RAMP PAINTING REQUIRES THE USE OF 2 TRAFFIC CONTROL SIGNS PCMS. THE UNITS MUST REMAIN STATIONARY ON THE INTERSTATE 94 MAINLINE SHOULDER, NOT TO FOLLOW THE PAINTING CONVOY. THE SIGN MESSAGE SHALL READ "RAMP WORK AHEAD USE CAUTION".

INTERSTATE 94 MAINLINE PAINTING NOT USING A FULL LANE CLOSURE MAY USE A MOBILE TRAFFIC CONTROL SIGN PCMS TO FOLLOW THE PAINTING CONVOY, NO CLOSER THAN 1,320 FEET (0.25 MILE) THE SIGN MESSAGE SHALL READ "ROAD WORK AHEAD MERGE RIGHT/LEFT"

INTERSTATE 94 MAINLINE PAINTING USING A FULL LANE CLOSURE REQUIRES THE USE OF A STATIONARY TRAFFIC CONTROL SIGN PCMS TO BE LOCATED NO CLOSER THAN 1,320 FEET (0.25 MILE) FROM THE START OF THE LANE CLOSURE. THE SIGN MESSAGE SHALL READ "ROAD WORK AHEAD MERGE RIGHT/LEFT"

LEGEND

- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE SIGN



GENERAL NOTES:

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

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

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

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

FOR LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PORTABLE CHANGEABLE MESSAGE SIGNS TO READ:
ROUNDBOUT CLOSED TEMPORARILY.
USE ALTERNATE ROUTE.

DATE 06FEB14		E S T I M A T E O F Q U A N T I T I E S			
LINE				1000-08-32	
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	643. 0300	TRAFFIC CONTROL DRUMS	DAY	63. 000	63. 000
0040	643. 0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	63. 000	63. 000
0050	643. 0900	TRAFFIC CONTROL SIGNS	DAY	6. 000	6. 000
0060	643. 1050	TRAFFIC CONTROL SIGNS PCMS	DAY	20. 000	20. 000
0070	646. 0103	PAVEMENT MARKING PAINT 4-INCH	LF	410, 825. 000	410, 825. 000
0080	646. 0106	PAVEMENT MARKING EPOXY 4-INCH	LF	1, 530, 910. 000	1, 530, 910. 000
0090	646. 0123	PAVEMENT MARKING PAINT 8-INCH	LF	10, 310. 000	10, 310. 000
0100	646. 0126	PAVEMENT MARKING EPOXY 8-INCH	LF	32, 620. 000	32, 620. 000
0110	646. 0600	REMOVING PAVEMENT MARKINGS	LF	183, 893. 000	183, 893. 000
0120	647. 0105	PAVEMENT MARKING RAILROAD CROSSINGS PAINT	EACH	2. 000	2. 000
0130	647. 0110	PAVEMENT MARKING RAILROAD CROSSINGS EPOXY	EACH	2. 000	2. 000
0140	647. 0156	PAVEMENT MARKING ARROWS EPOXY TYPE 1	EACH	3. 000	3. 000
0150	647. 0160	PAVEMENT MARKING ARROWS EPOXY TYPE 2R	EACH	4. 000	4. 000
0160	647. 0163	PAVEMENT MARKING ARROWS PAINT TYPE 2	EACH	74. 000	74. 000
0170	647. 0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	13. 000	13. 000
0180	647. 0176	PAVEMENT MARKING ARROWS EPOXY TYPE 3	EACH	1. 000	1. 000
0190	647. 0353	PAVEMENT MARKING WORDS PAINT	EACH	3. 000	3. 000
0200	647. 0356	PAVEMENT MARKING WORDS EPOXY	EACH	15. 000	15. 000
0210	647. 0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	90. 000	90. 000
0220	647. 0576	PAVEMENT MARKING STOP LINE EPOXY 24-INCH	LF	28. 000	28. 000
0230	647. 0603	PAVEMENT MARKING ISLAND NOSE PAINT	EACH	1. 000	1. 000
0240	647. 0723	PAVEMENT MARKING DIAGONAL PAINT 12-INCH	LF	515. 000	515. 000
0250	647. 0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	318. 000	318. 000
0260	647. 0763	PAVEMENT MARKING CROSSWALK PAINT 6-INCH	LF	3, 156. 000	3, 156. 000
0270	647. 0773	PAVEMENT MARKING CROSSWALK PAINT 12-INCH	LF	228. 000	228. 000
0280	647. 0803	PAVEMENT MARKING AERIAL ENFORCEMENT BARS EPOXY 24-INCH	LF	120. 000	120. 000
0290	SPV. 0045	SPECIAL 01. PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) CELLULAR COMMUNICATIONS	DAY	20. 000	20. 000
0300	SPV. 0090	SPECIAL 01. PAVEMENT MARKING GROOVED TAPE 18-INCH	LF	48. 000	48. 000
0310	SPV. 0090	SPECIAL 02. PAVEMENT MARKING GROOVED CONTRAST TAPE 8-INCH	LF	443. 000	443. 000

MAP REF#	MILES	COUNTY	HWY	CATEGORY 010 BEGIN	END	646.0103 PAVEMENT MARKING PAINT 4-INCH		646.0123 PAVEMENT MARKING PAINT 8-INCH	646.0106 PAVEMENT MARKING EPOXY 4-INCH		646.0126 PAVEMENT MARKING EPOXY 8-INCH	646.0600 REMOVING PAVEMENT MARKINGS	643.1050 TCS PCMS AND SPV.0045.01 PCMS CELLULAR COMMUNICATIONS
						YELLOW LF	WHITE LF	WHITE LF	YELLOW LF	WHITE LF	WHITE LF	LF	DAY
601	14.9	EC/DUNN	I 94 EB	MILE POST 44 (FROM CONCRETE)	USH 12 / STH 312 / EXIT 59 (NEW ASPHALT)	172,315	213,225	9,480	---	---	---	---	4
	14.9	EC/DUNN	I 94 WB	USH 12 / STH 312 / EXIT 59 (NEW ASPHALT)	MILE POST 44 (TO CONCRETE)								
			RAMPS:	(4) CTH B / EXIT 45									
				WEIGH STATION / ASPHALT AREA ONLY									
602	17.5	ST CROIX	I 94 EB	STH 65 / EXIT 10 / ON RAMP /EAST SIDE (FROM CONCRETE)	STH 128 / EXIT 28 / OFF RAMP / WEST SIDE	---	---	---	202,010	244,350	13,650	---	4
	17.5	ST CROIX	I 94 WB	STH 128 / EXIT 28 / ON RAMP / WEST SIDE	STH 65 / EXIT 10 / OFF RAMP /EAST SIDE (TO CONCRETE)								
			RAMPS:	(4) CTH T / EXIT 16									
				(4) USH 63 / EXIT 19									
603	3.0	ST CROIX	STH 29	STH 128	ST CROIX / DUNN CO LINE	---	---	---	17,870	31,860	150	---	---
604	5.8	PIERCE	STH 29	USH 63 SOUTH	CTH CG / SPRING VALLEY	---	---	---	39,355	60,430	805	---	---
605	11.2	TREMPEALEAU	USH 53	SOUTH END OF BRIDGE DECK / SHEPARD RD / PIGEON FALLS	USH 10 EAST / OSSEO	---	---	---	88,380	111,435	680	---	---
601	11.4	POLK	STH 46	USH 8 WEST	STH 35	---	---	---	86,700	110,825	1,185	---	---
602	9.1	POLK	USH 8	EAST SIDE OF APPLE RIVER BRIDGE (WEST OF STH 46 SB)	STH 35 NB (TO CONCRETE) / ST CROIX FALLS	---	---	---	64,700	97,120	1,340	---	---
603	1.9	POLK	STH 35	CTH W EAST / FREDERIC	422' NORTH OF POLK AVE / FREDERIC	---	---	---	15,050	8,799	1,320	---	---
604	8.9	ASHLAND	USH 2	RIVER RD / WEST END OF BRIDGE	ASHLAND / IRON CO LINE	---	---	---	51,180	94,960	1,740	---	---
605	1.2	DOUGLAS	STH 35	SOUTH SUPERIOR CITY LIMITS / N 64TH ST	510' NORTH OF 52ND ST / SUPERIOR	15,115	10,170	830	---	---	---	---	---
606	4.6	DOUGLAS	STH 105	STH 35 / SUPERIOR	EAST SIDE OF RR TRESTLE / OLIVER	---	---	---	19,900	45,605	---	---	---
				MINNEAPOLIS AVE / TOWN OF OLIVER	ZONE CHANGE								
607	7.2	DOUGLAS	USH 2 EB	KELLOGG RD	SUPERIOR CITY LIMITS (START OF CURB & GUTTER)	---	---	---	71,105	89,298	11,750	183,883	9
	7.2		USH 2 WB	SUPERIOR CITY LIMITS (START OF CURB & GUTTER)	KELLOGG RD								
			RAMPS:	(4) STH 13 / CTH Z									
				WEIGH STATION (EXIT / ENTRY GORES ONLY)									
				REST AREA (EXIT / ENTRY GORES ONLY)									
				X- OVER AT CTH C									
SHEET TOTAL						187,430	223,395	10,310	636,230	894,680	32,620	183,883	17

3

3

COUNTY		ST CROIX											
MAP REFERENCE		ST CROIX 1000A											
MAP REFERENCE HWY		94EB											
MAP REFERENCE SITE ID		CTH B EXIT 24											
BID ITEM #	DESCRIPTION		SMCODE	MARKING LOCATION	UNIT	CTH B		I 94		TOTAL QUANTITY			
						NB	SB	EB	WB				
	647.0803							60					
	PAVEMENT MARKING AERIAL ENFORCEMENT BARS EPOXY 24-INCH NEW INSTALLATION												
CONTACT; SGT BRIAN ERICKSON 715-577-7139													
MAP REFERENCE		ST CROIX 1000B											
MAP REFERENCE HWY		94WB											
MAP REFERENCE SITE ID		CTH B EXIT 24											
BID ITEM #	DESCRIPTION		SMCODE	MARKING LOCATION	UNIT	CTH B		I 94		TOTAL QUANTITY			
						NB	SB	EB	WB				
	647.0803								60				
	PAVEMENT MARKING AERIAL ENFORCEMENT BARS EPOXY 24-INCH NEW INSTALLATION												
CONTACT; SGT BRIAN ERICKSON 715-577-7139													
MAP REFERENCE		ST CROIX 32											
MAP REFERENCE HWY		35											
MAP REFERENCE SITE ID		MAIN ST & PARENT ST - SOMERSET											
BID ITEM#	DESCRIPTION		SMCODE	MARKING LOCATION	UNIT	STH 35		MAIN ST		TOTAL QUANTITY			
						NB	SB	EB	WB				
	647.0166					2	2						
	PAVEMENT MARKING ARROWS EPOXY TYPE 2												
647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2		SM-ARROW-2-R	LEFT TURN LANE	EACH	2	2			4			
647.0356	PAVEMENT MARKING WORDS EPOXY		SM-ONLY	LEFT TURN LANE	EACH		2			2			
647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH		SM-STOPBAR-18-INCH	MAINLINE	L.F.	47	43			90			
647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH		SM-DIAGONAL-YELLOW	MEDIAN ISLAND	L.F.	111				111			
COUNTY		CHIPPEWA											
MAP REFERENCE		CHIPPEWA 47A -----WORK TIME RESTRICTIONS											
MAP REFERENCE HWY		124 NB											
MAP REFERENCE SITE ID		BUSINESS 29 WB - CHIPPEWA FALLS - ROUNDABOUT											
BID ITEM #	DESCRIPTION		SMCODE	MARKING LOCATION	UNIT	STH 124		BUS 29		TOTAL QUANTITY			
						NB	SB	EB	WB				
	643.0300					21	21		21				
	TRAFFIC CONTROL DRUMS												
643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C			RA APPROACH LANE	DAY	21	21		21	63			
643.0900	TRAFFIC CONTROL SIGNS			RA APPROACH LANE	DAY	2	2		2	6			
643.1050	TRAFFIC CONTROL SIGNS PORTABLE CHANGEABLE MESSAGE SIGN			RA APPROACH LANE	DAY	1	1		1	3			
647.0356	PAVEMENT MARKING WORDS EPOXY		SM-YIELD	RA APPROACH LANE	EA	1				1			
647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH		SM-DIAGONAL-YELLOW	RA APPROACH LANE	L.F.	57				57			
SPV.0045.01	PORTABLE CHANGEABLE MESSAGE SIGN CELLULAR COMMUNICATIONS			RA APPROACH LANE	DAY	1	1		1	3			
SPV.0090.01	PAVEMENT MARKING GROOVED TAPE 18-INCH		SM-RA-DOTTED EL-W	RA APPROACH LANE	L.F.	14				14			
PROJECT NO:1000-08-32		HWY: NORTHWEST REGION		COUNTY: NORTHWEST REGION		MISCELLANEOUS QUANTITIES			SHEET				
									E				

3

MAP REFERENCE CHIPPEWA 47B -----WORK TIME RESTRICTIONS
MAP REFERENCE HWY 124 SB
MAP REFERENCE SITE ID BUSINESS 29 WB - CHIPPEWA FALLS - ROUNDABOUT

BID ITEM#	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	STH 124		BUS 29		TOTAL QUANTITY
					NB	SB	EB	WB	
647.0156	PAVEMENT MARKING ARROWS EPOXY TYPE 1	SM-ARROW-1	RA SPIRAL	EA		3			3
647.0160	PAVEMENT MARKING ARROWS EPOXY TYPE 2R	SM-ARROW-2-L	RA APPROACH LANE	EA		2			2
647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	SM-ARROW-2-L	RA APPROACH LANE	EA		2			2
647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	SM-ARROW-2-L	RA SPIRAL	EA		1			1
647.0176	PAVEMENT MARKING ARROWS EPOXY TYPE 3	SM-ARROW-3-L	RA SPIRAL	EA		1			1
647.0356	PAVEMENT MARKING WORDS EPOXY	SM-YIELD	RA APPROACH LANE	EA		2			2
647.0356	PAVEMENT MARKING WORDS EPOXY	SM-ONLY	RA APPROACH LANE	EA		4			4
SPV.0090.01	PAVEMENT MARKING GROOVED TAPE 18-INCH	SM-RA-DOTTED EL-W	RA APPROACH LANE	L.F.		16			16
SPV.0090.02	PAVEMENT MARKING GROOVED CONTRAST TAPE 8-INCH	W-RA-8 INCH-9	RA SPIRAL	L.F.		132			132
SPV.0090.02	PAVEMENT MARKING GROOVED CONTRAST TAPE 8-INCH	W-TURNLANE-8-INCH	RA APPROACH LANE	L.F.		71			71

3

MAP REFERENCE CHIPPEWA 47D -----WORK TIME RESTRICTIONS
MAP REFERENCE HWY BUSINESS 29 WB
MAP REFERENCE SITE ID STH 124 - CHIPPEWA FALLS - ROUNDABOUT

BID ITEM#	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	STH 124		BUS 29		TOTAL QUANTITY
					NB	SB	EB	WB	
647.0160	PAVEMENT MARKING ARROWS EPOXY TYPE 2R	SM-ARROW-2-L	RA APPROACH LANE	EA				2	2
647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	SM-ARROW-2-L	RA SPIRAL	EA				2	2
647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	SM-ARROW-2-L	RA APPROACH LANE	EA				2	2
647.0356	PAVEMENT MARKING WORDS EPOXY	SM-YIELD	RA APPROACH LANE	EA				2	2
647.0356	PAVEMENT MARKING WORDS EPOXY	SM-ONLY	RA APPROACH LANE	EA				4	4
SPV.0090.01	PAVEMENT MARKING GROOVED TAPE 18-INCH	SM-RA-DOTTED EL-W	RA APPROACH LANE	L.F.				18	18
SPV.0090.02	PAVEMENT MARKING GROOVED CONTRAST TAPE 8-INCH	W-TURNLANE-8-INCH	RA APPROACH LANE	L.F.				72	72
SPV.0090.02	PAVEMENT MARKING GROOVED CONTRAST TAPE 8-INCH	W-RA-8 INCH-9	RA SPIRAL	L.F.				168	168

3

3

COUNTY DOUGLAS
MAP REFERENCE DOUGLAS 1000 - SUPERIOR --- WORK TIME RESTRICTIONS
MAP REFERENCE HWY 35
MAP REFERENCE SITE ID N 69TH ST / SUPERIOR SOUTH CITY LIMITS TO 510' NORTH OF 52ND ST / SUPERIOR

BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	STH 35	TOTAL QUANTITY
647.0105	PAVEMENT MARKING RAILROAD CROSSINGS PAINT	SM-RAILROAD	MAINLINE	EA	2	2
647.0163	PAVEMENT MARKING ARROWS PAINT TYPE 2	SM-ARROW-2-R	RIGHT TURN LANE	EA	8	8
647.0163	PAVEMENT MARKING ARROWS PAINT TYPE 2	SM-ARROW-2-L	TWLT	EA	63	63
647.0163	PAVEMENT MARKING ARROWS PAINT TYPE 2	SM-ARROW-2-L	LEFT TURN LANE	EA	3	3
647.0353	PAVEMENT MARKING WORDS PAINT	SM-ONLY	LEFT TURN LANE	EA	3	3
647.0603	PAVEMENT MARKING ISLAND NOSE PAINT	SM-ISLAND NOSE-YELLOW	MEDIAN ISLAND	EA	1	1
647.0723	PAVEMENT MARKING DIAGONAL PAINT 12-INCH	SM-DIAGONAL-YELLOW	MEDIAN ISLAND	LF	515	515
647.0763	PAVEMENT MARKING CROSSWALK PAINT 6-INCH	SM-CROSSWALK OUTLINE-6	MAINLINE	LF	3156	3156
647.0773	PAVEMENT MARKING CROSSWALK PAINT 12-INCH	SM-CROSSWALK BLOCK-12	MAINLINE	LF	228	228

MAP REFERENCE DOUGLAS 01
MAP REFERENCE HWY 35
MAP REFERENCE SITE ID 845 FT NORTH OF N 74TH ST - SOUTH OF SUPERIOR

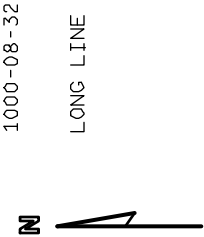
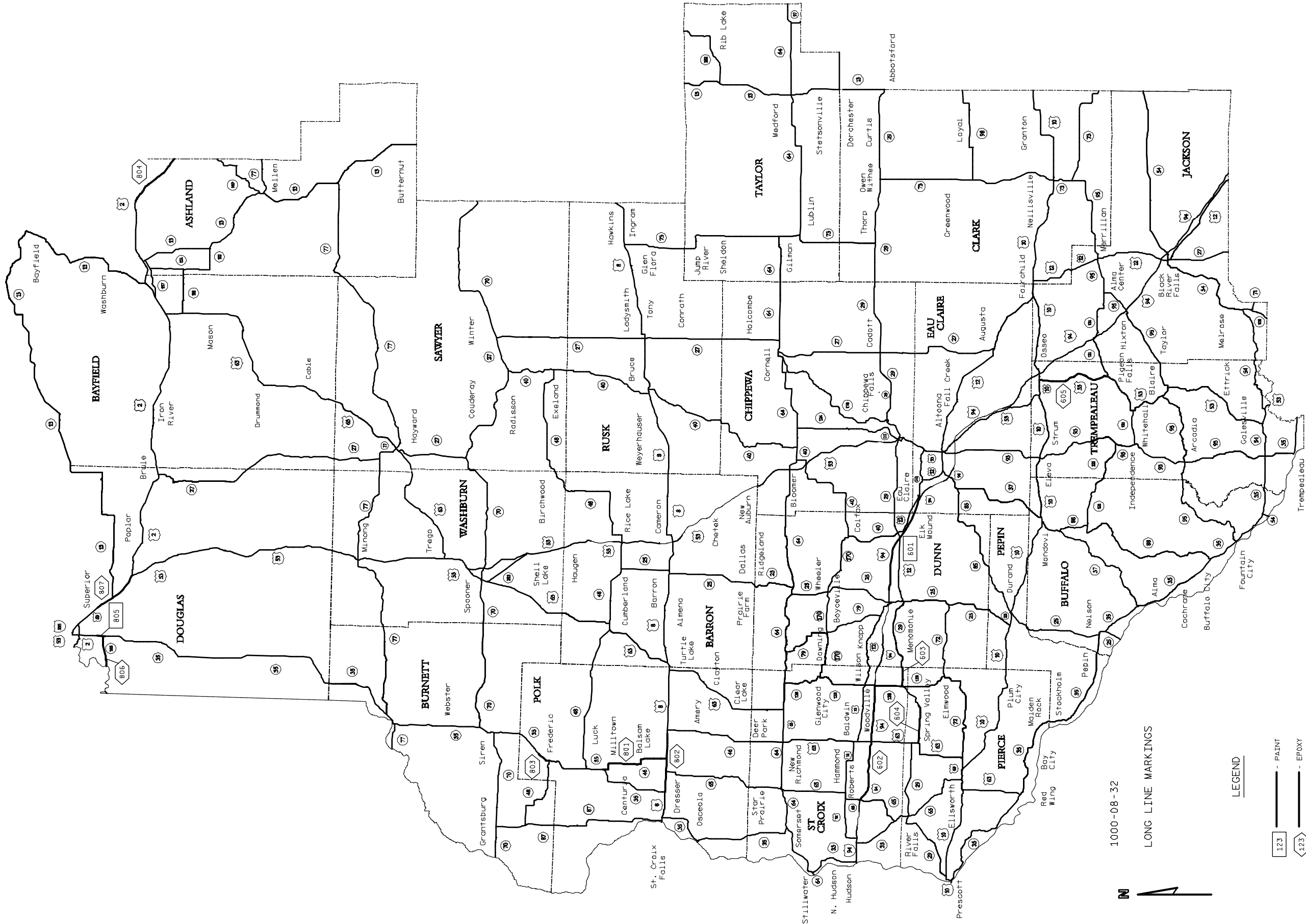
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	STH 35		74TH ST		TOTAL QUANTITY
					NB	SB	EB	WB	
647.0110	PAVEMENT MARKING RAILROAD CROSSINGS EPOXY NEW LOCATION (DO NOT RETRACE OLD SYMBOLS)	SM-RAILROAD	MAINLINE	EA	1	1			2

COUNTY WASHBURN
MAP REFERENCE WASHBURN 1000
MAP REFERENCE HWY 63
MAP REFERENCE SITE ID DMV DR - SPOONER

BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	USH 63		DMV DR	STH 253	TOTAL QUANTITY
					NB	SB	EB	WB	
647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	SM-DIAGONAL-WHITE	SHOULDER	L.F.		150			150

SPECIAL MARKING SUMMARY

643.0300	TRAFFIC CONTROL DRUMS	63 DAY
643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	63 DAY
643.0900	TRAFFIC CONTROL SIGNS	6 DAY
643.1050	TRAFFIC CONTROL SIGNS PORTABLE CHANGEABLE MESSAGE SIGN	3 DAY
647.0105	PAVEMENT MARKING RAILROAD CROSSINGS PAINT	2 EACH
647.0110	PAVEMENT MARKING RAILROAD CROSSINGS EPOXY	2 EACH
647.0156	PAVEMENT MARKING ARROWS EPOXY TYPE 1	3 EACH
647.0160	PAVEMENT MARKING ARROWS EPOXY TYPE 2R	4 EACH
647.0163	PAVEMENT MARKING ARROWS PAINT TYPE 2	74 EACH
647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	13 EACH
647.0176	PAVEMENT MARKING ARROWS EPOXY TYPE 3	1 EACH
647.0353	PAVEMENT MARKING WORDS PAINT	3 EACH
647.0356	PAVEMENT MARKING WORDS EPOXY	15 EACH
647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	90 LF
647.0576	PAVEMENT MARKING STOP LINE EPOXY 24-INCH	28 LF
647.0603	PAVEMENT MARKING ISLAND NOSE PAINT	1 EACH
647.0723	PAVEMENT MARKING DIAGONAL PAINT 12-INCH	515 LF
647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	318 LF
647.0763	PAVEMENT MARKINGCROSSWALK PAINT 6-INCH	3156 LF
647.0773	PAVEMENT MARKINGCROSSWALK PAINT 12-INCH	228 LF
647.0803	PAVEMENT MARKING AERIAL ENFORCEMENT BARS EPOXY 24-INCH	120 LF
SPV.0045.01	PORTABLE CHANGEABLE MESSAGE SIGN CELLULAR COMMUNICATIONS	3 DAY
SPV.0090.01	PAVEMENT MARKING GROOVED TAPE 18-INCH	48 LF
SPV.0090.02	PAVEMENT MARKING GROOVED CONTRAST TAPE 8-INCH	443 LF



1000-08-32

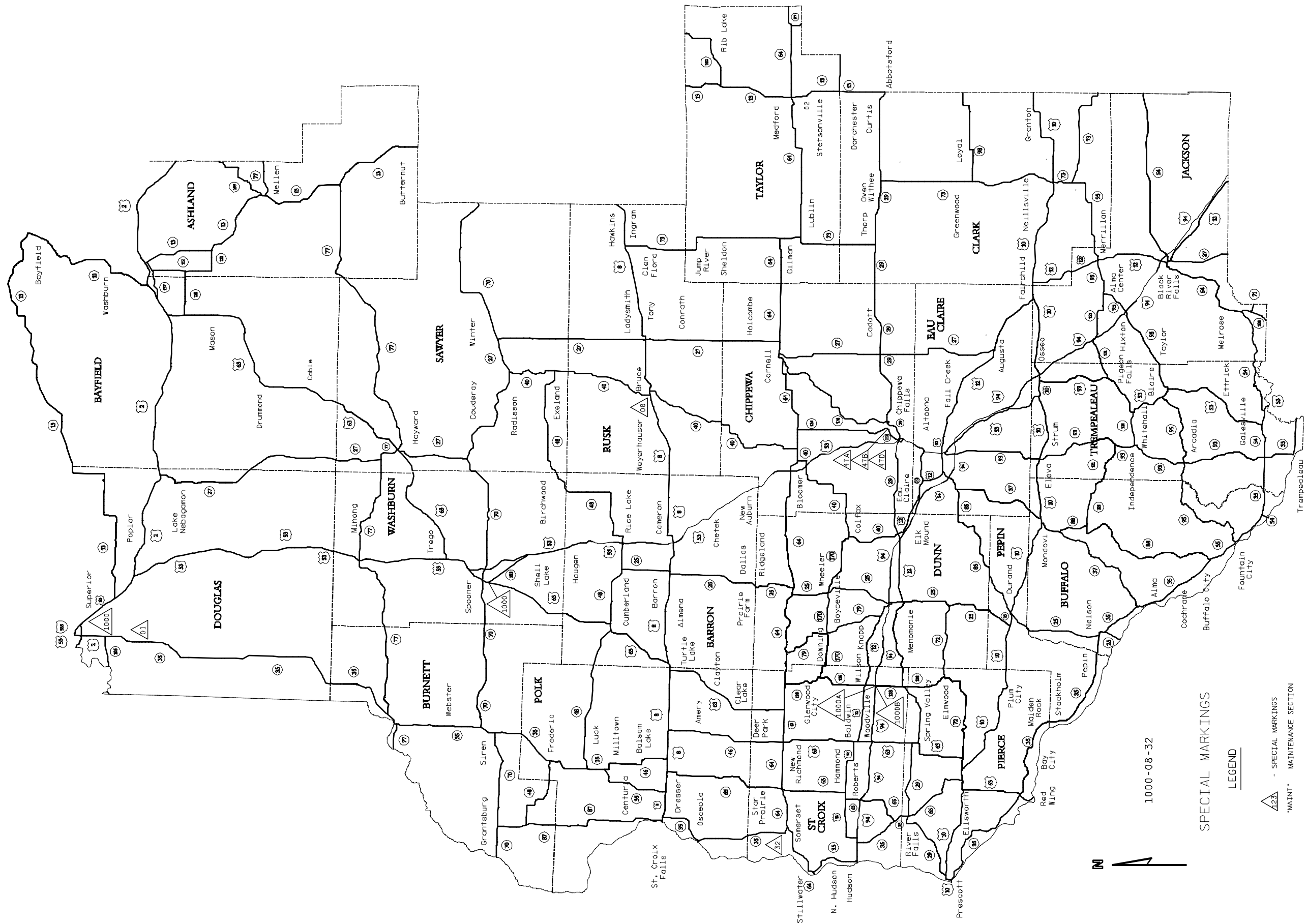
LONG LINE MARKINGS

LEGEND

- 123 ——— PAINT
- 123 ——— EPOXY
- 123 ——— TAPE
- 123 ——— REMOVALS
- 123 ——— MAINTENANCE SECTION

5

5



1000-08-32

SPECIAL MARKINGS

LEGEND

△123 - SPECIAL MARKINGS
"MAINT" MAINTENANCE SECTION

COLOR MAPS AVAILABLE UPON REQUEST

PROJECT NO:1000-08-32

HWY: NORTHWEST REGION

COUNTY:NORTHWEST REGION

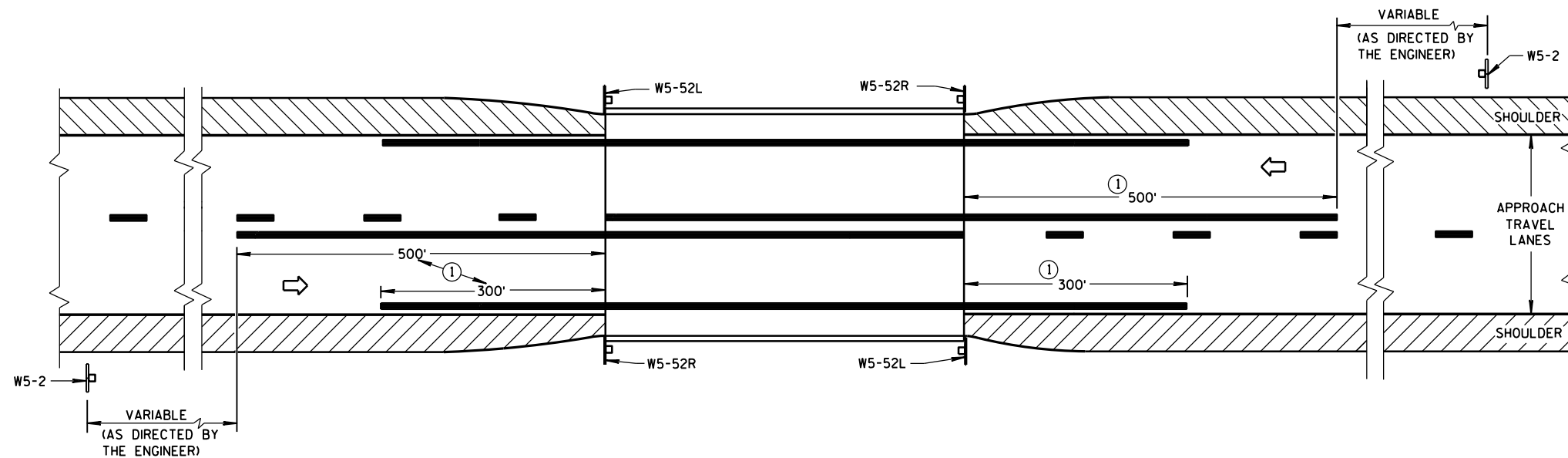
SPECIAL MARKING LOCATIONS

SHEET

E

Standard Detail Drawing List

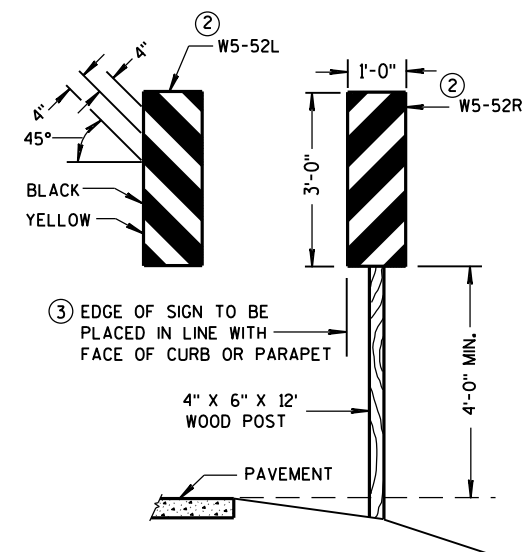
15C06-06	SIGNING & MARKING FOR TWO LANE BRIDGES
15C07-12A	PAVEMENT MARKING SYMBOLS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C07-12D	ROUNDABOUT ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16C	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C08-16D	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C09-09A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C14-01	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
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
15C21-05	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15D12-03	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M. P. H.



SITUATION 1

WARRANTING CRITERIA:

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



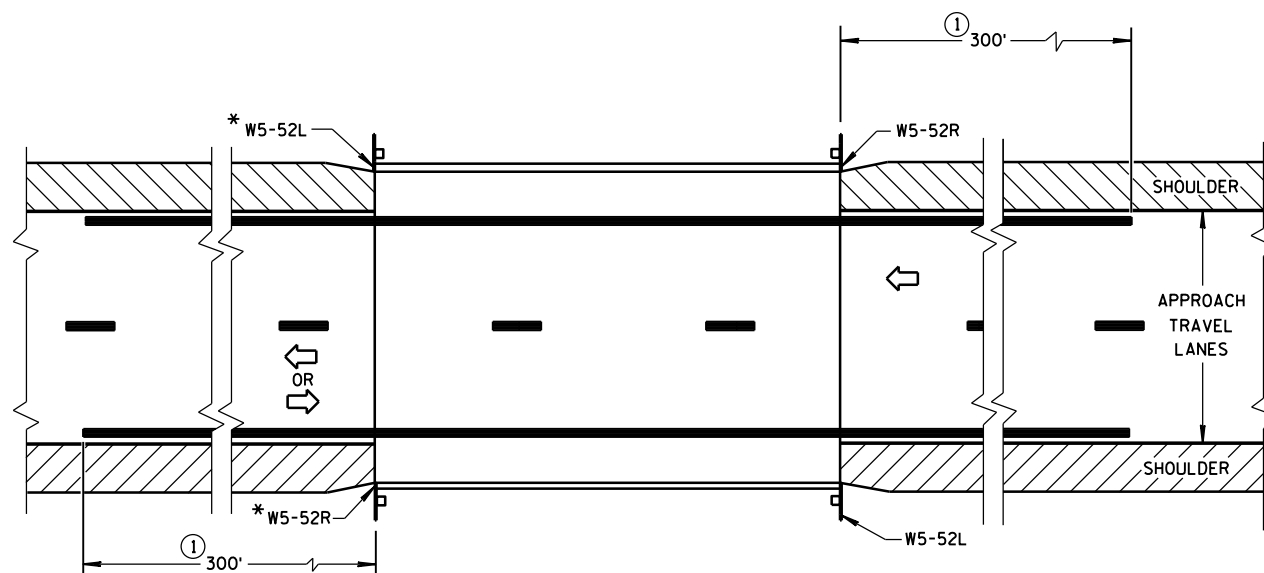
OBJECT MARKER PLACEMENT

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 F REFLECTIVE SHEETING.
- ③ LOCATE OBJECT MARKER POST(S) BEHIND GUARDRAIL WHEN PRESENT.

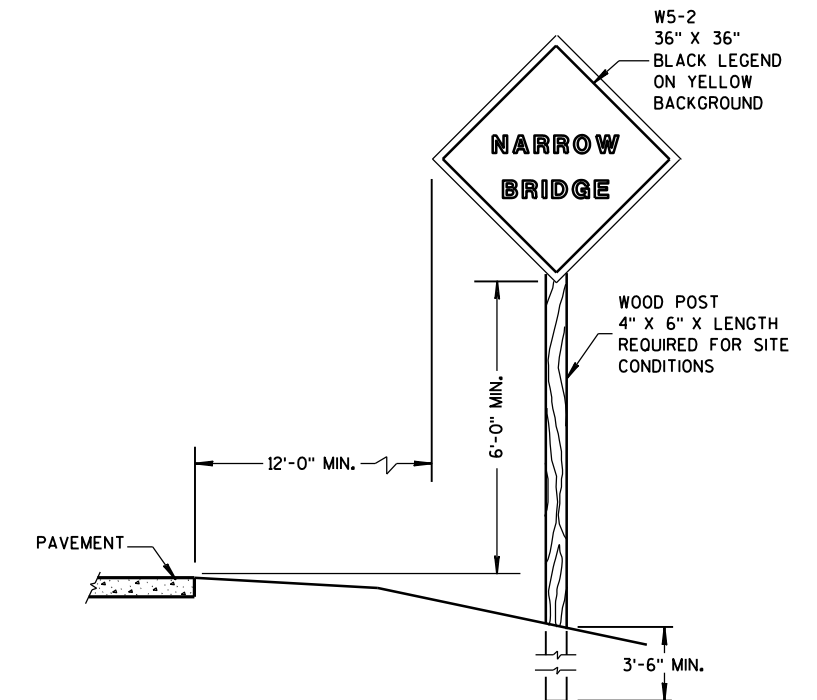


*OMIT ON ONE-WAY TRAVELLED WAYS

SITUATION 2

WARRANTING CRITERIA:

1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE IS LESS THAN 6 FEET WIDER (ON EACH SIDE) THAN APPROACH TRAVEL LANES.



SIGN PLACEMENT

SIGNING & MARKING FOR TWO LANE BRIDGES

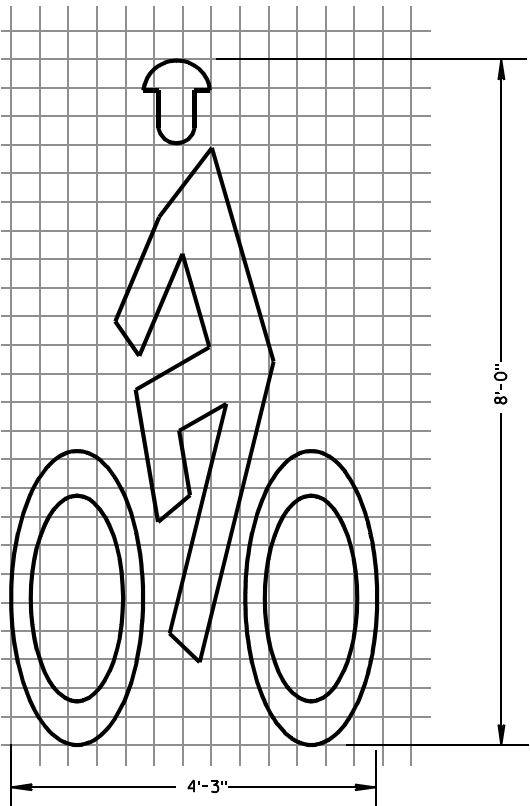
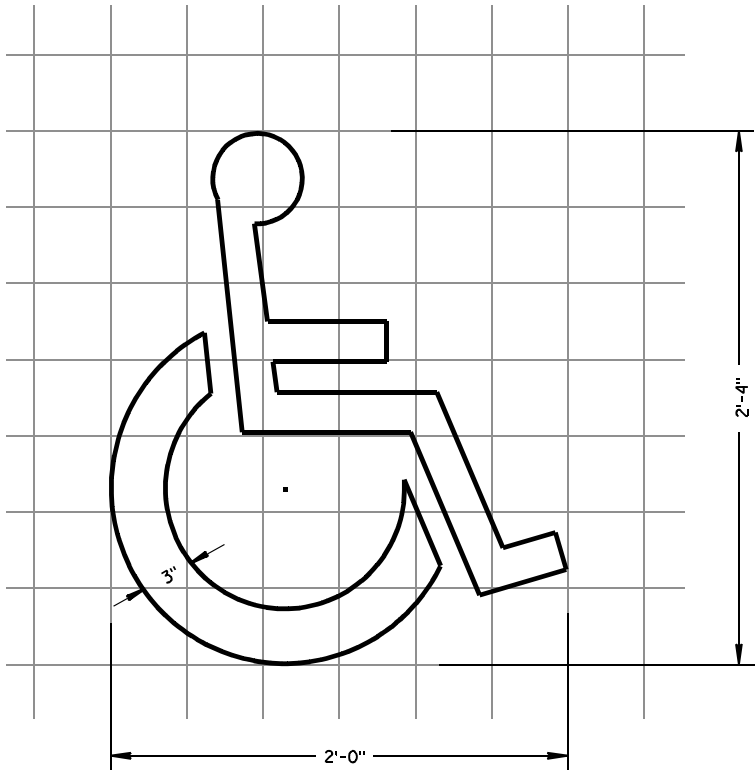
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

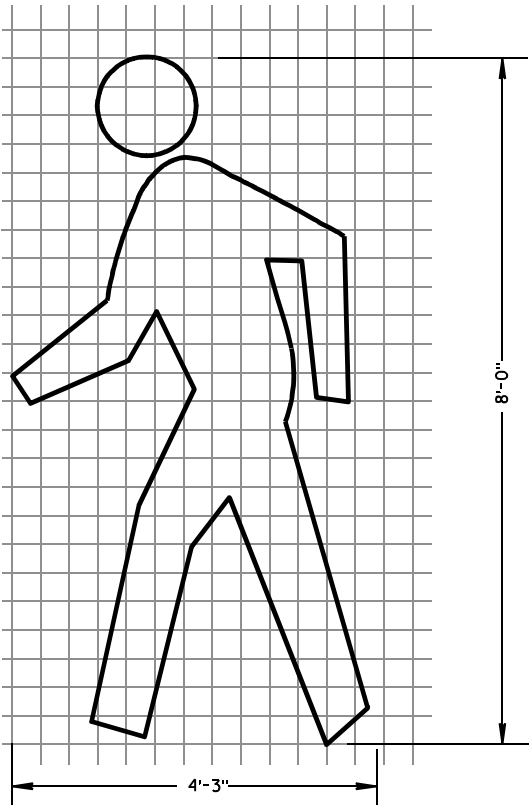
3/4/2013
DATE

FHWA

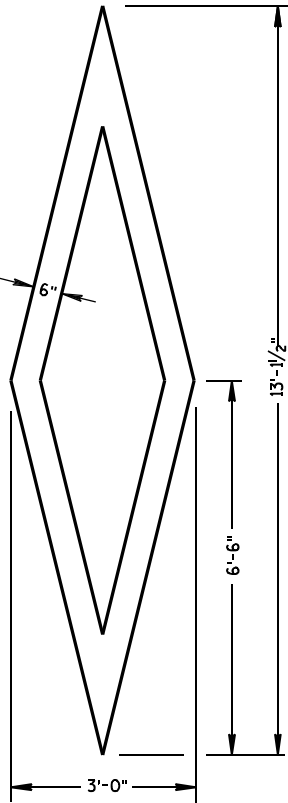
/S/ Travis Feltes
STATE TRAFFIC ENGINEER OF DESIGN



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.

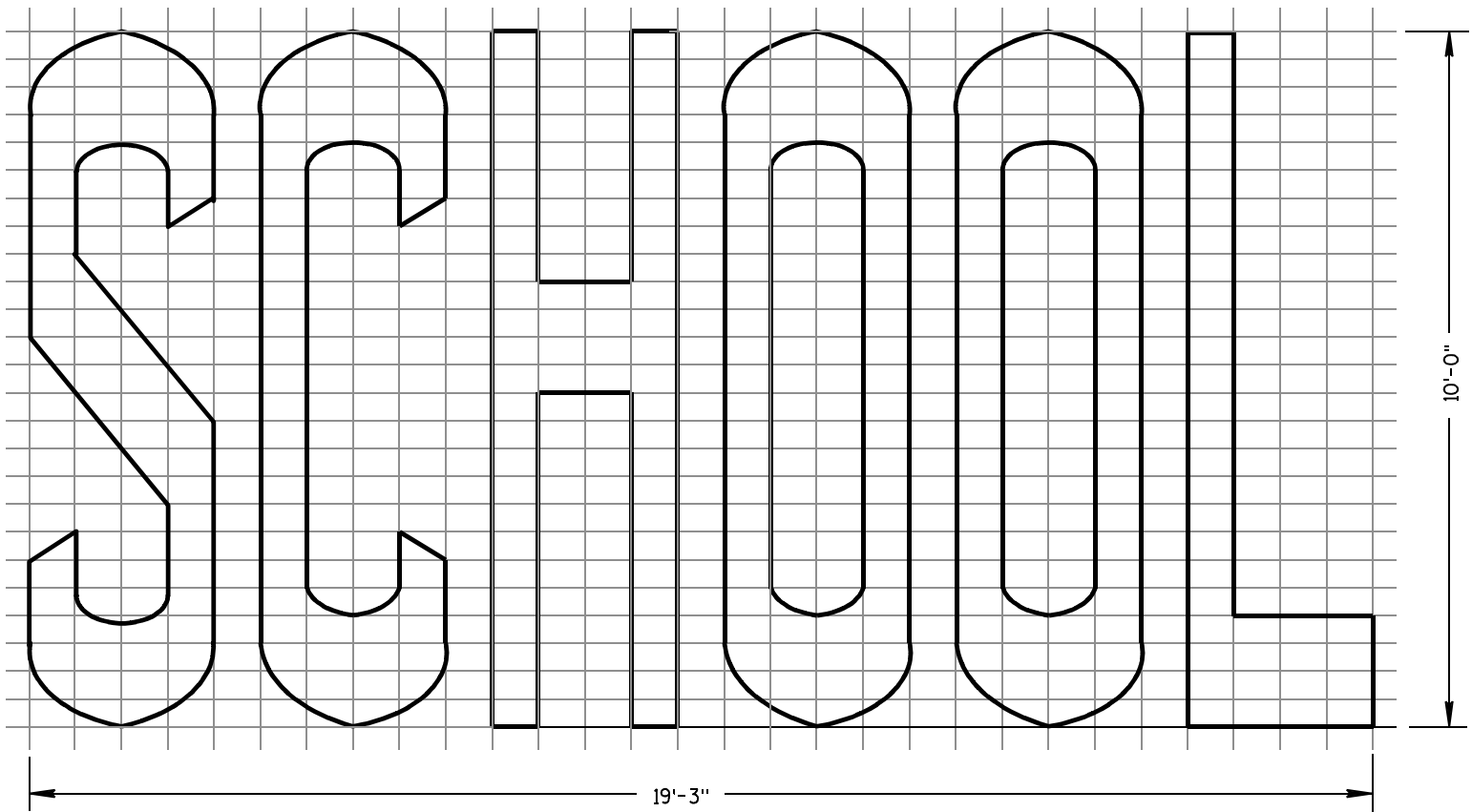
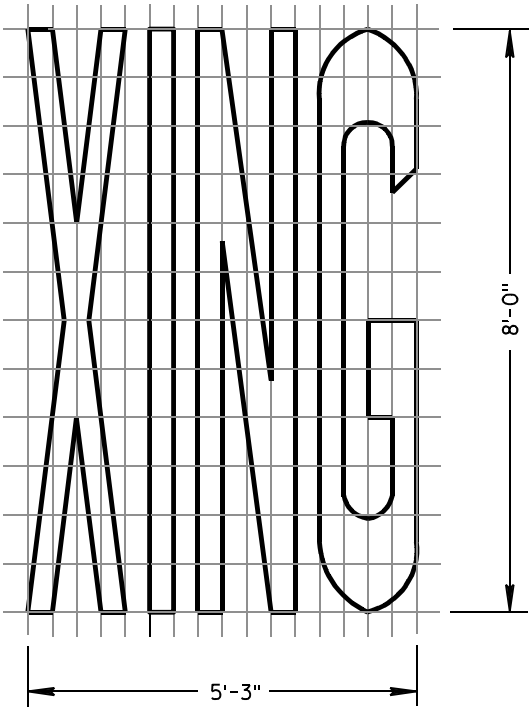
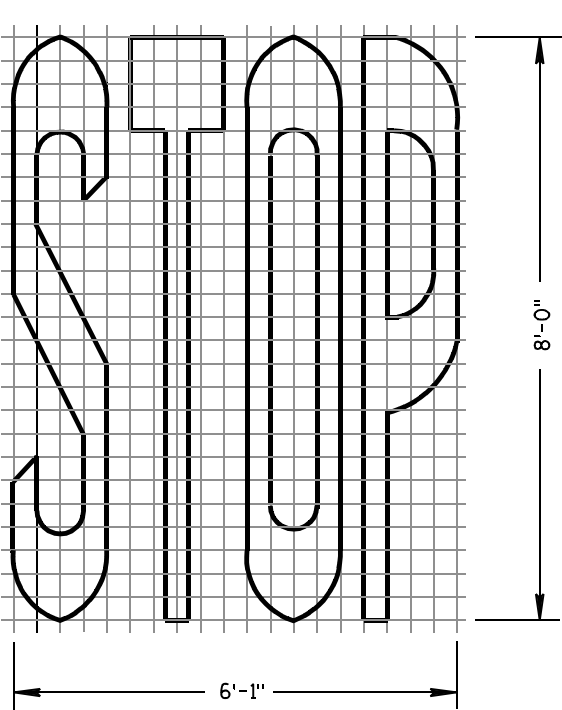
A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

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

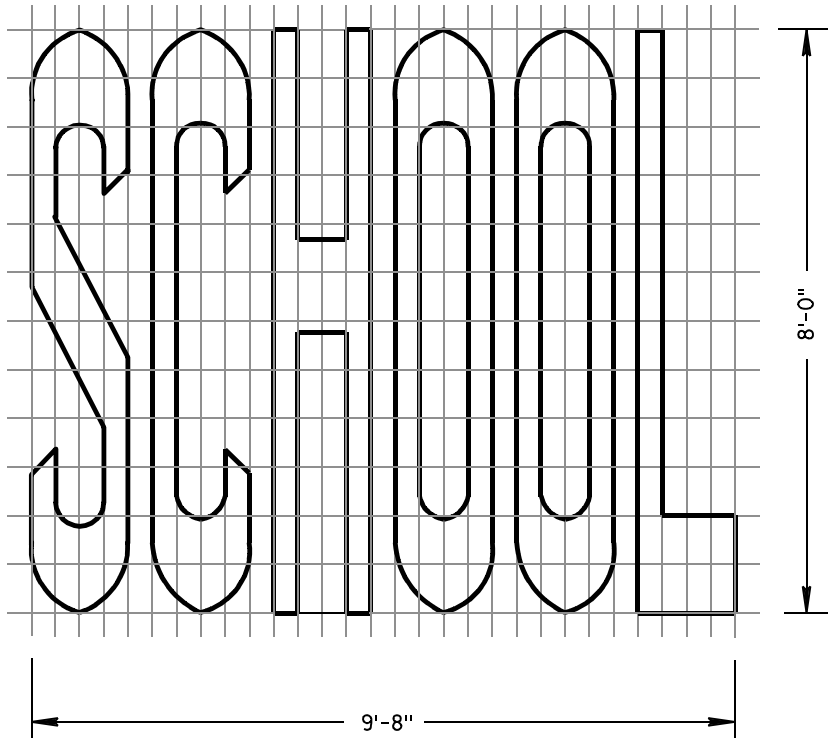
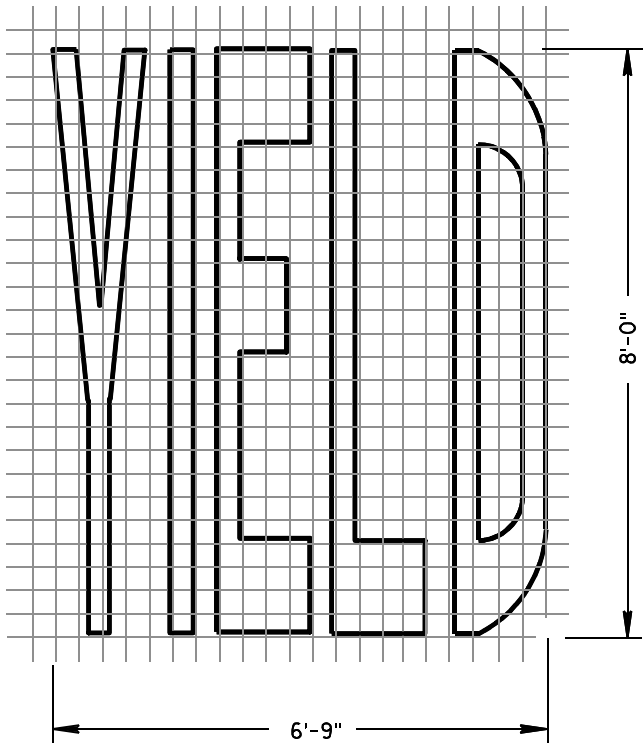
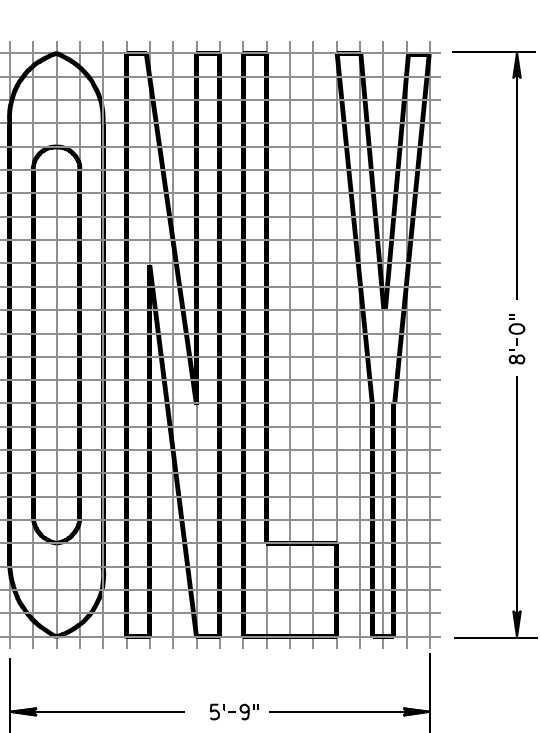
GENERAL NOTES

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.

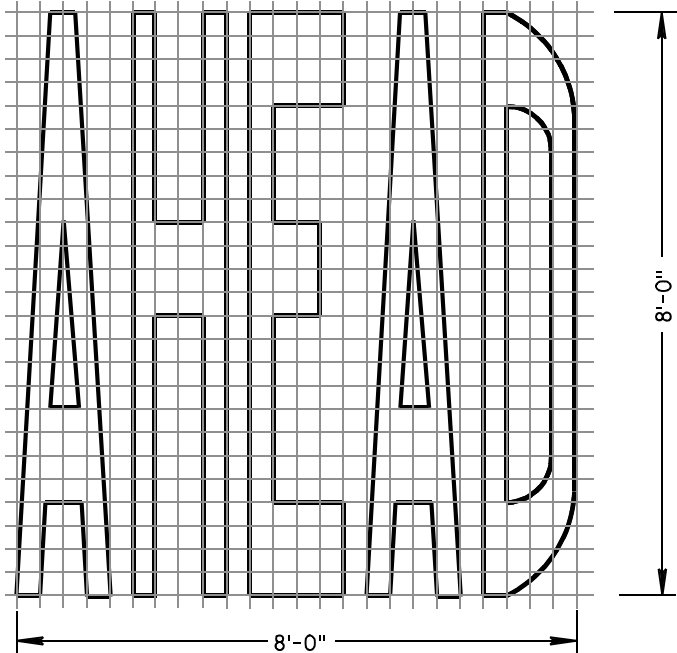
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES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



TWO-LANE



SINGLE-LANE



PAVEMENT MARKING WORDS

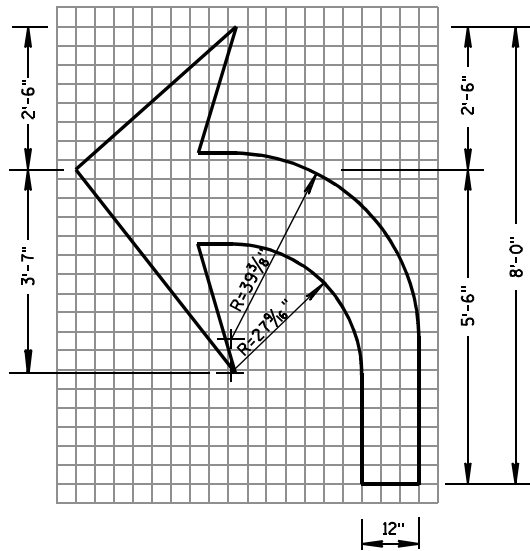
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

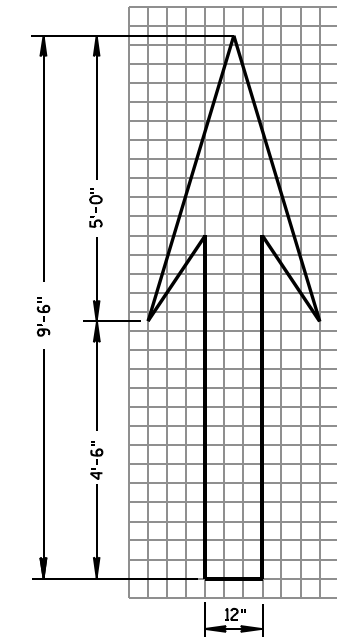
7-1-11
DATE

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

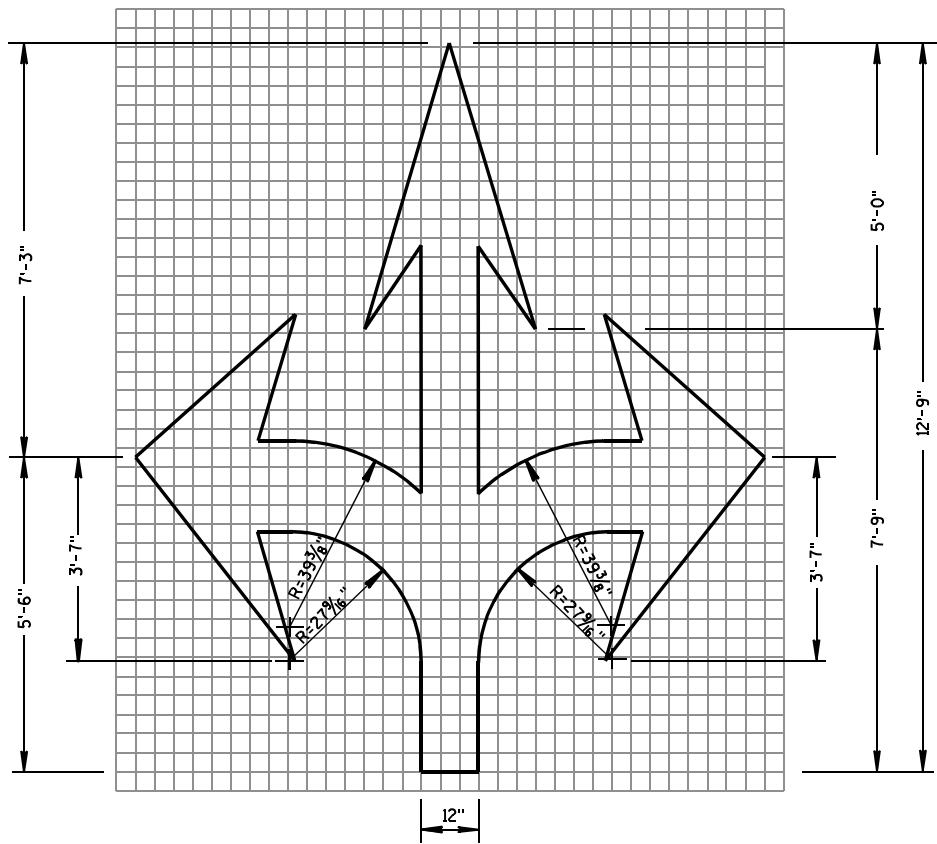
FHWA



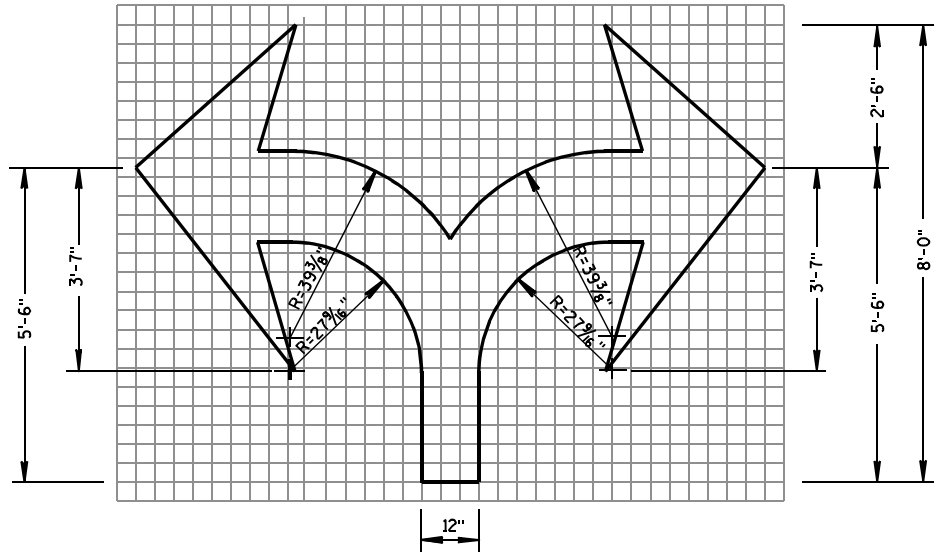
TYPE 2



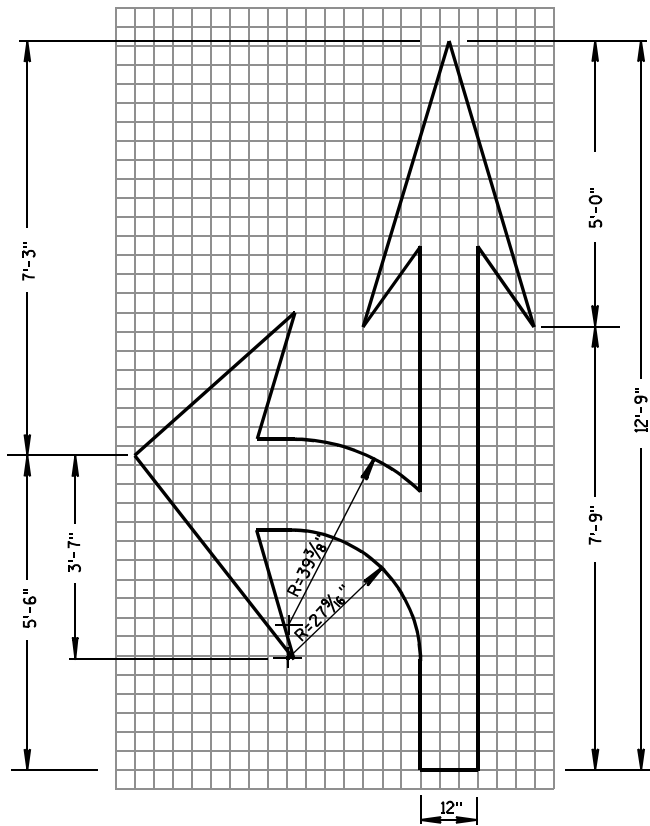
TYPE 1



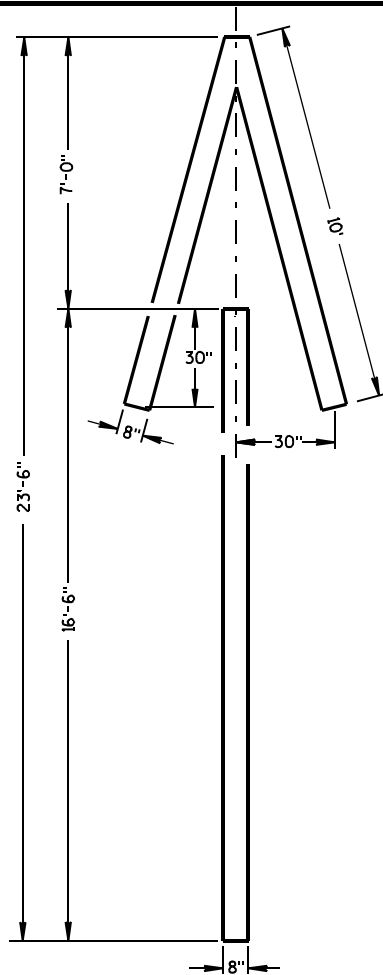
TYPE 6



TYPE 7



TYPE 3

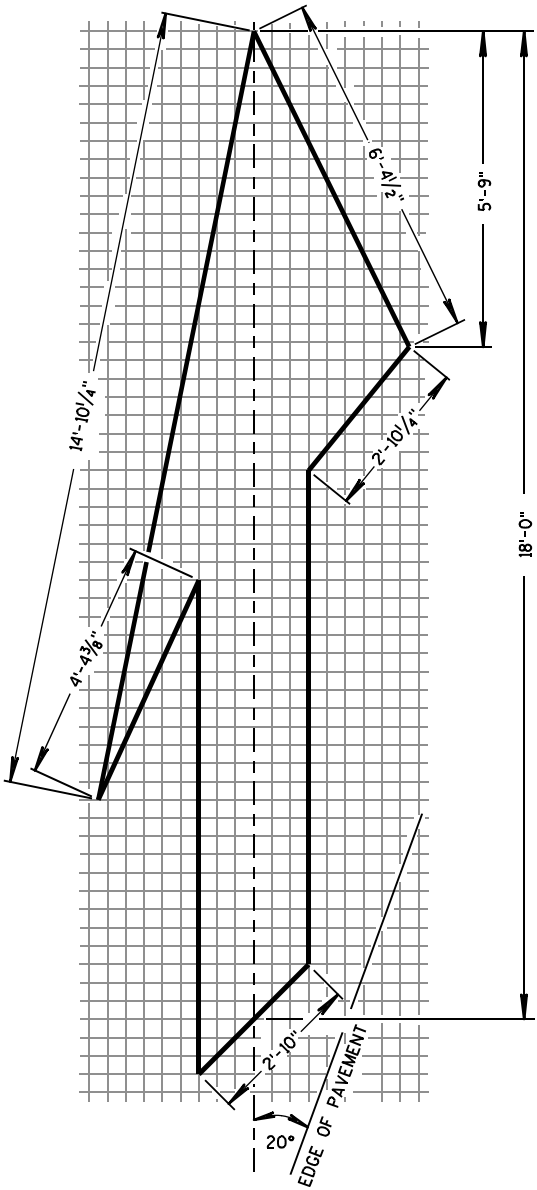


TYPE 4

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

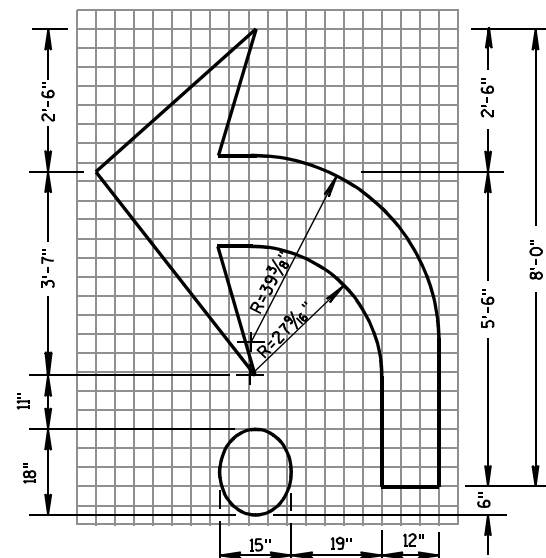
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

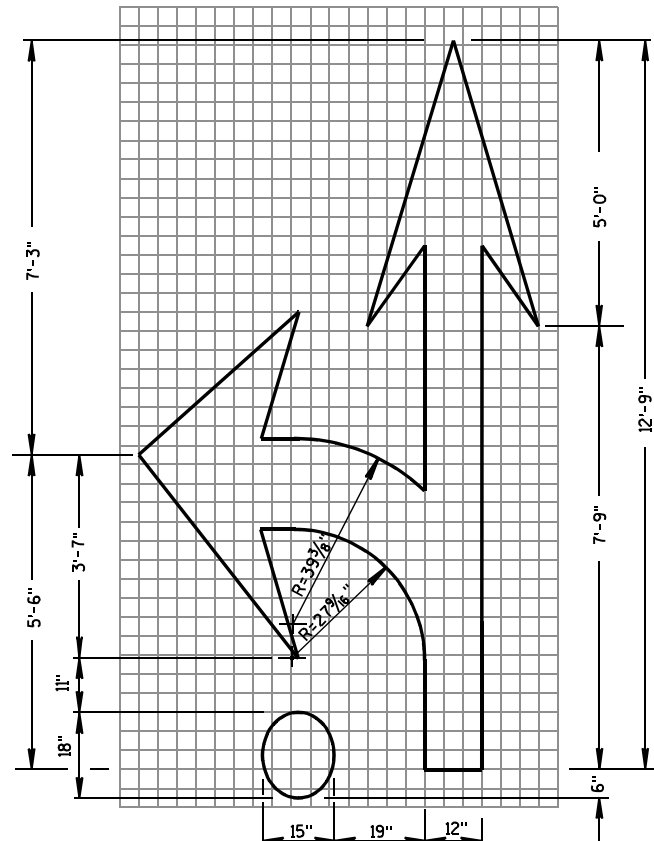
7/1/11
DATE

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

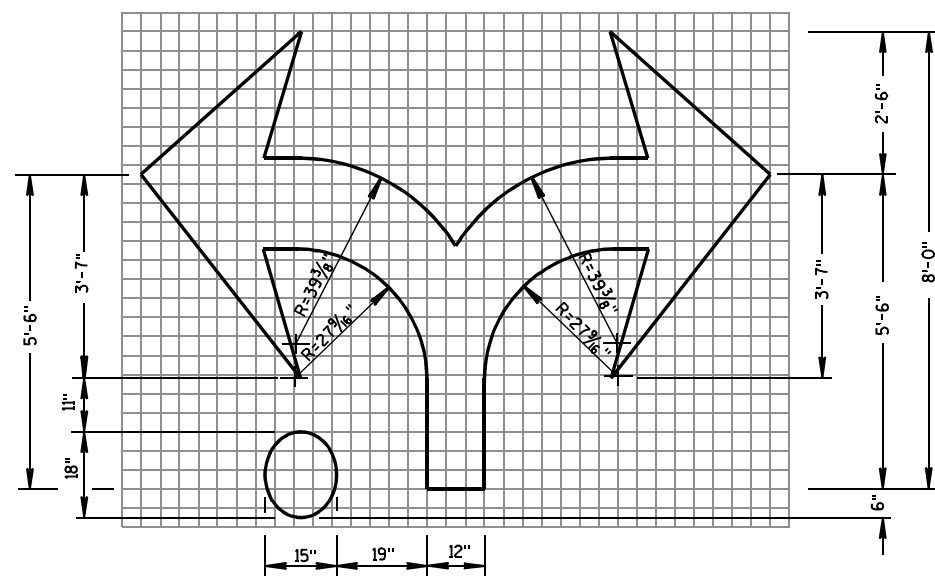
FHWA



TYPE 2R



TYPE 3R

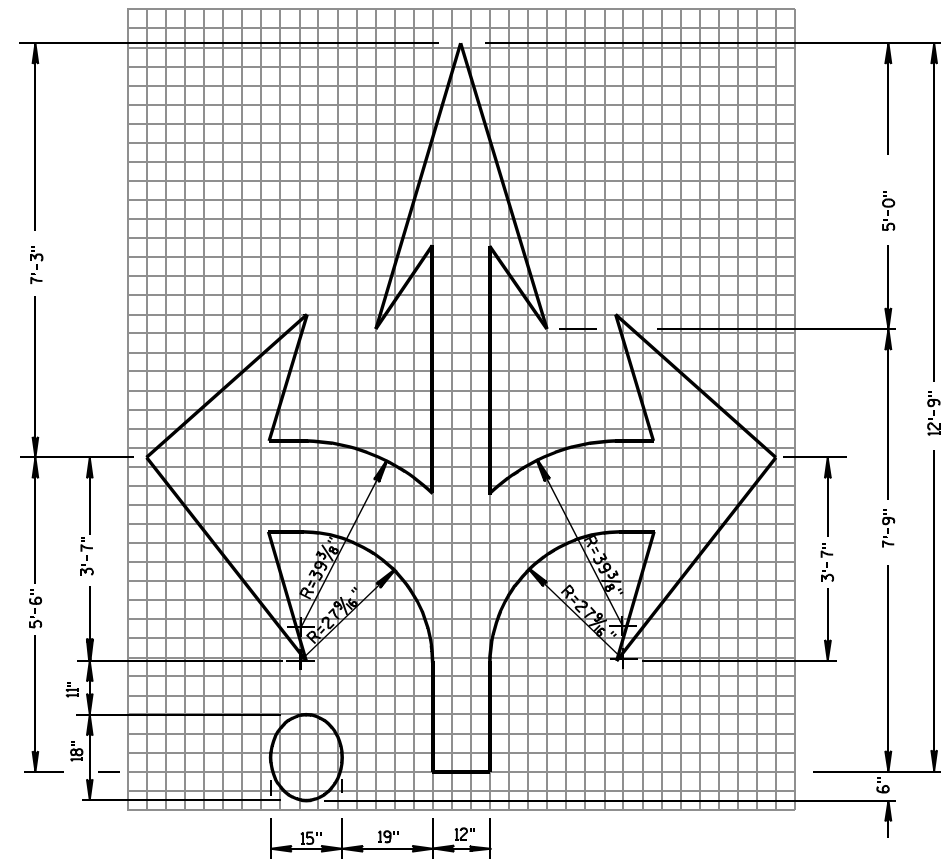


TYPE 7R

GENERAL NOTES

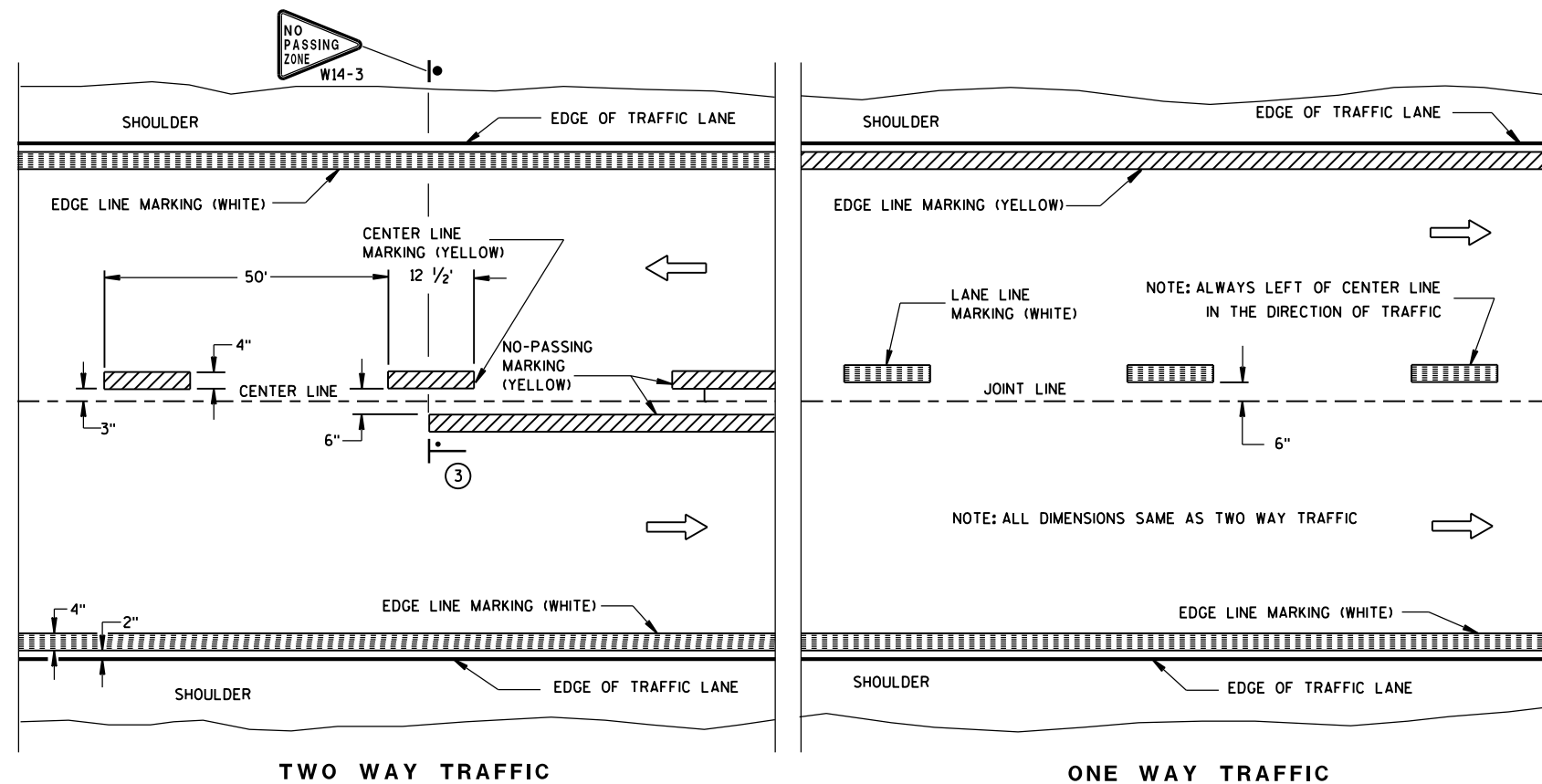
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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.

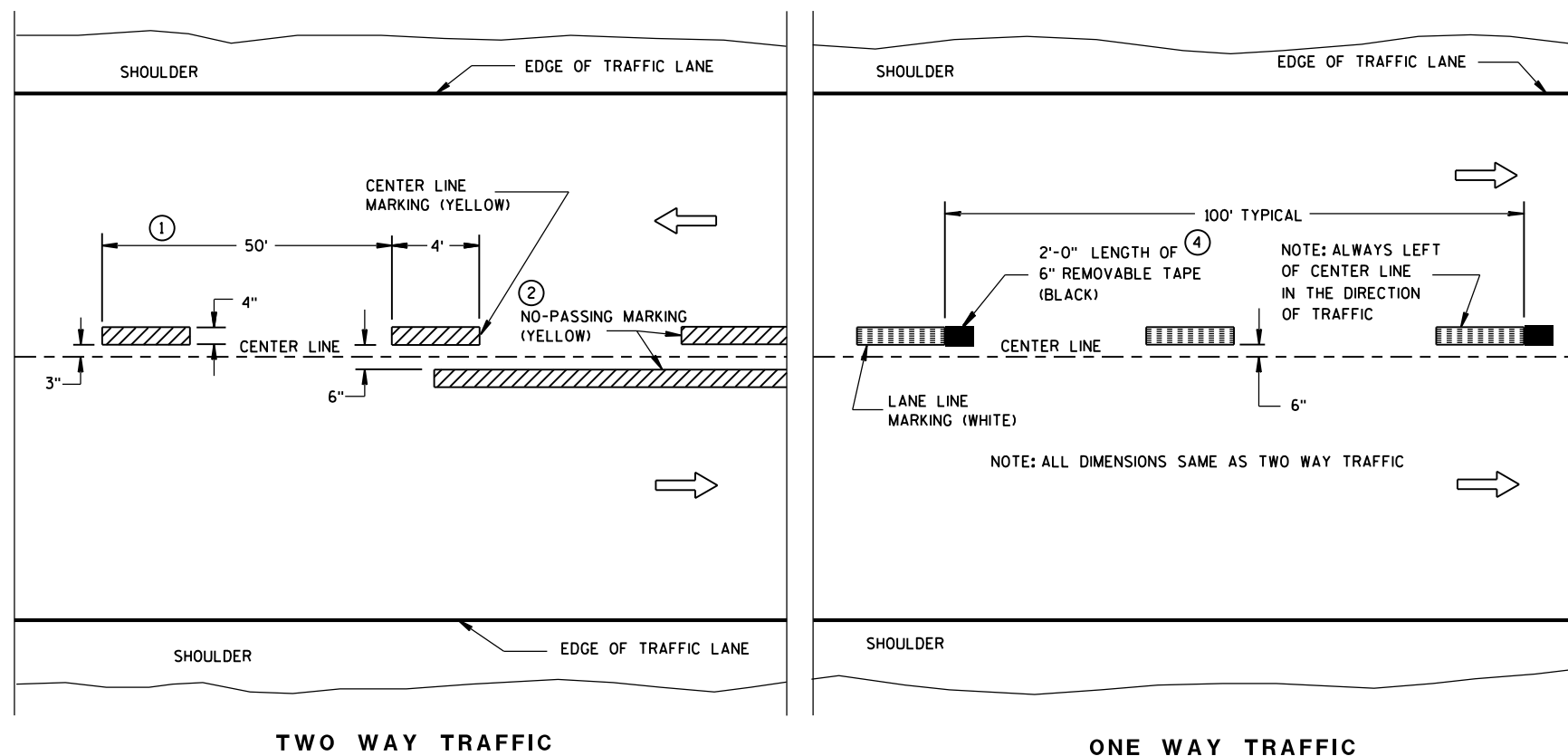


TYPE 6R

ROUNDABOUT ARROWS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED <u>7/1/11</u> DATE	<u>/S/ Thomas N. Notbohm</u> STATE TRAFFIC ENGINEER OF DESIGN
FHWA	



PERMANENT PAVEMENT MARKING




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

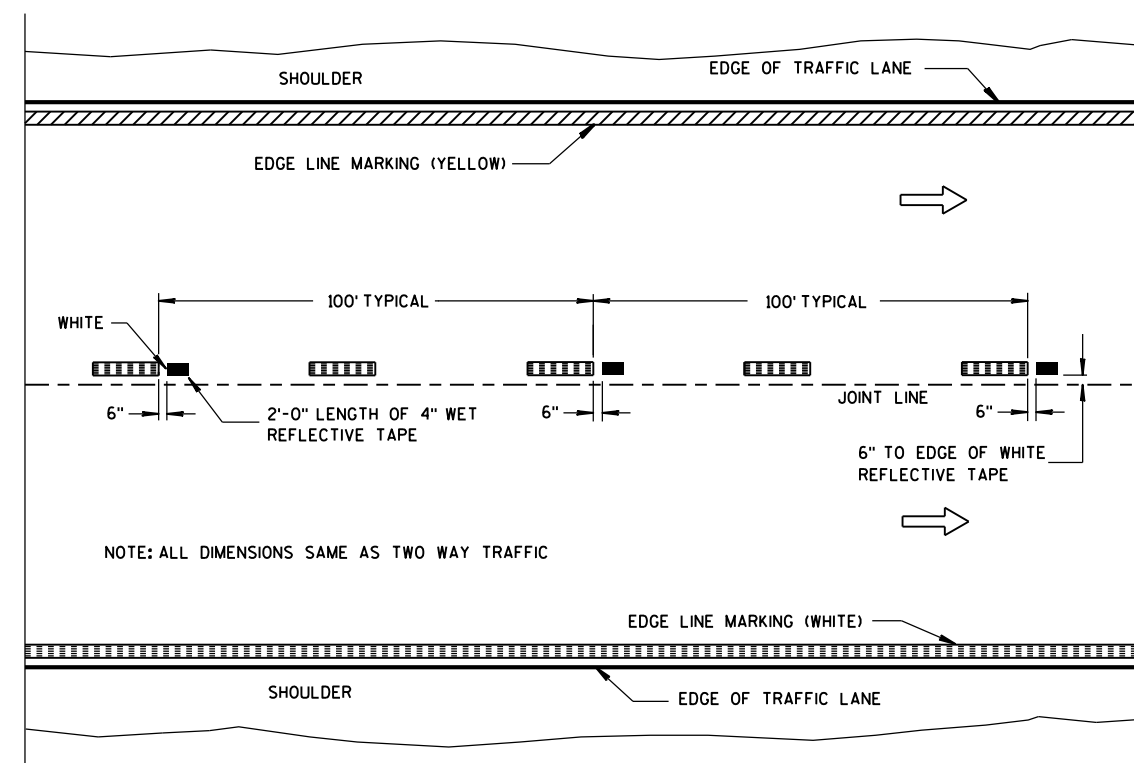
GENERAL NOTES

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.
- 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

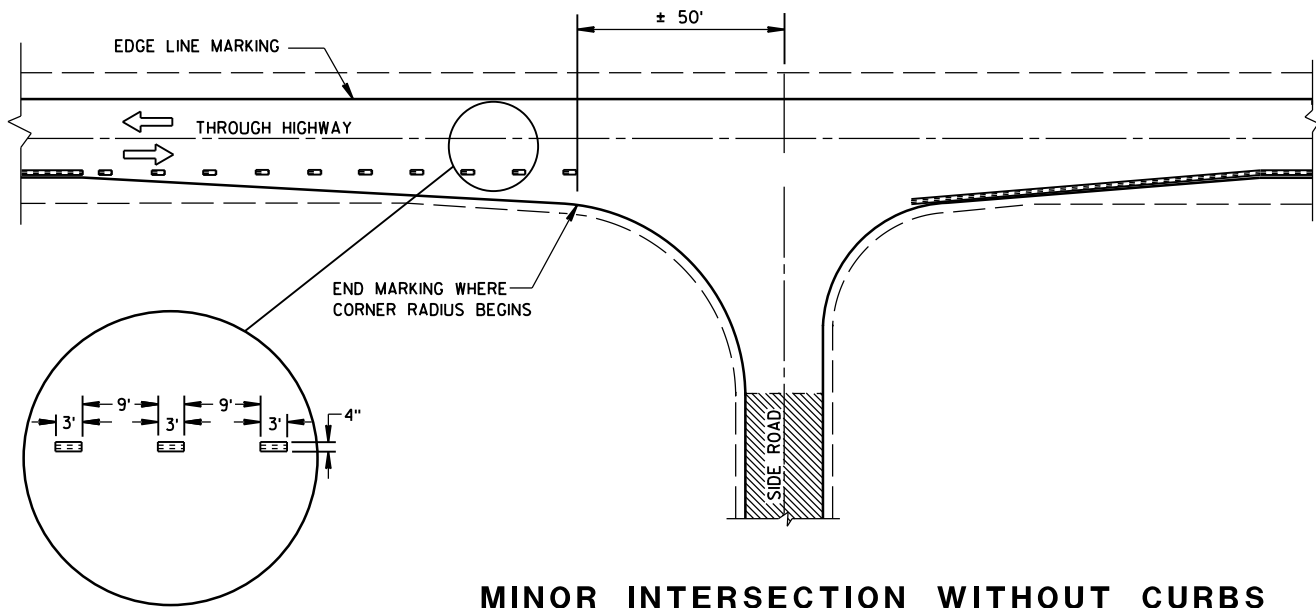
● POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

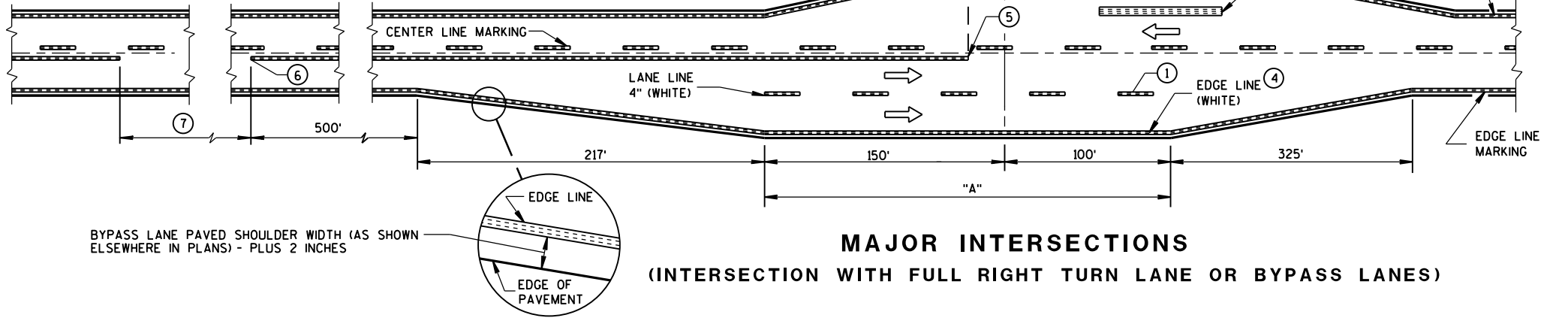
APPROVED
5-13-2013
DATE
FHWA

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

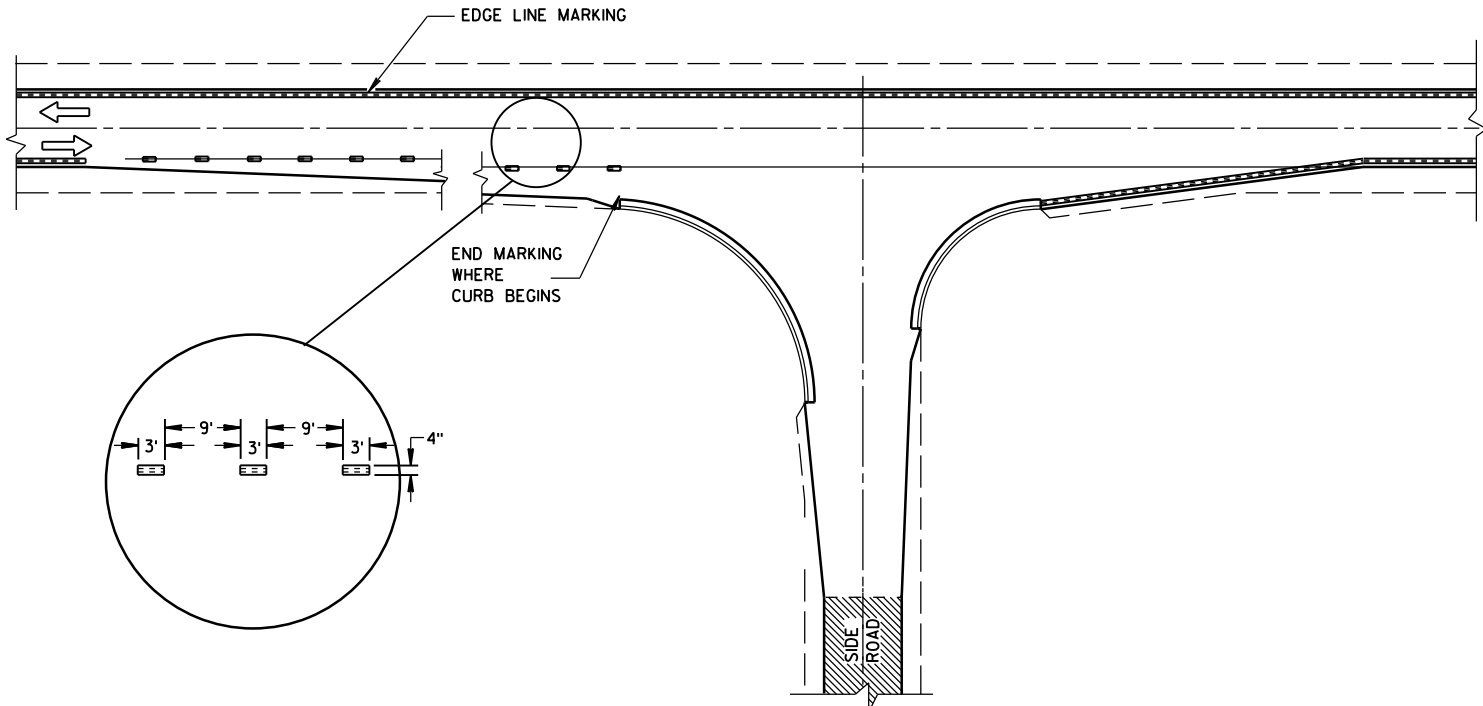


MINOR INTERSECTION WITHOUT CURBS

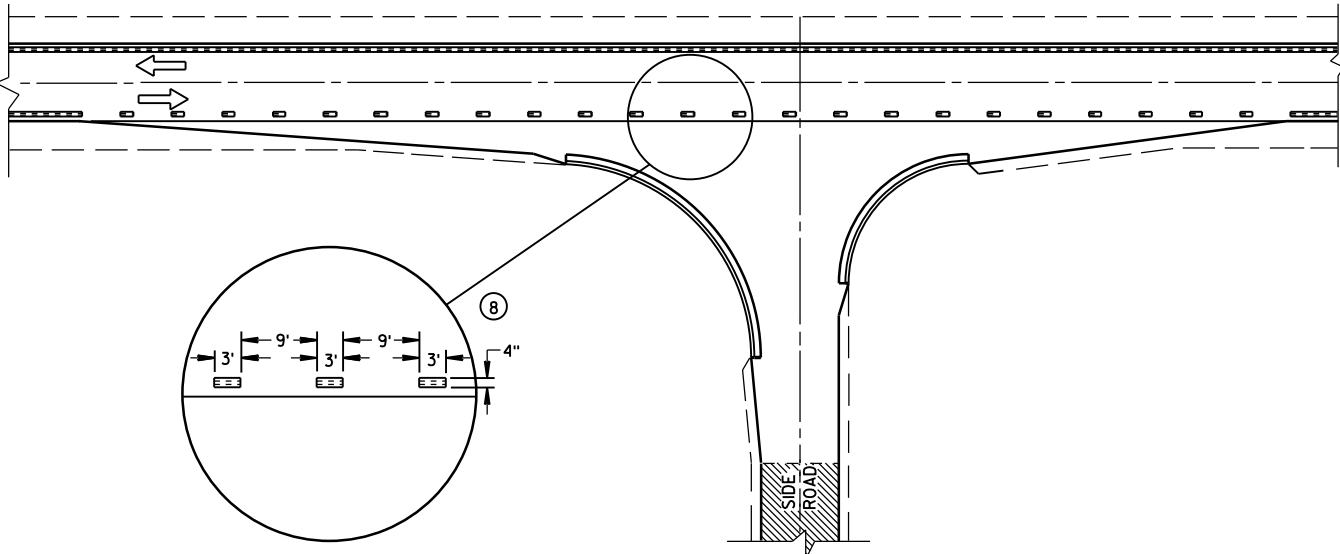
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



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



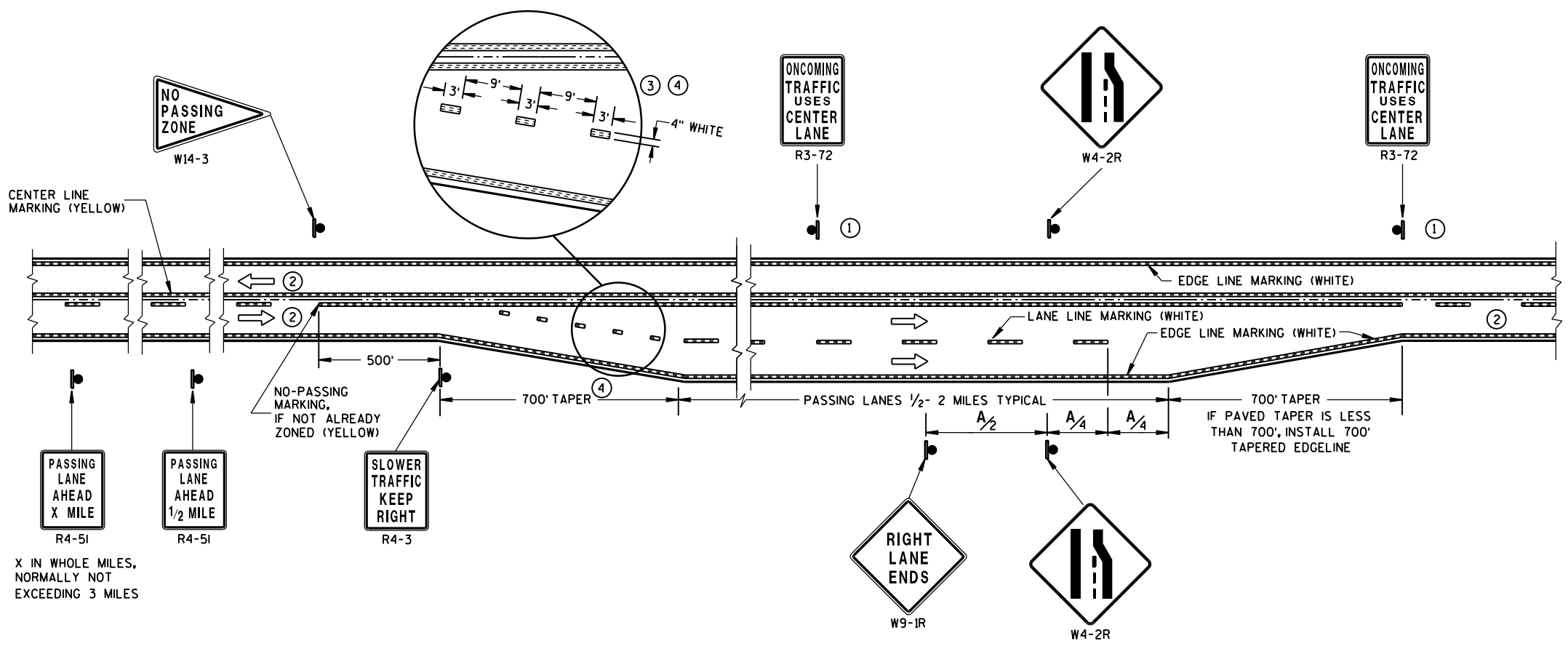
MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS
(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



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

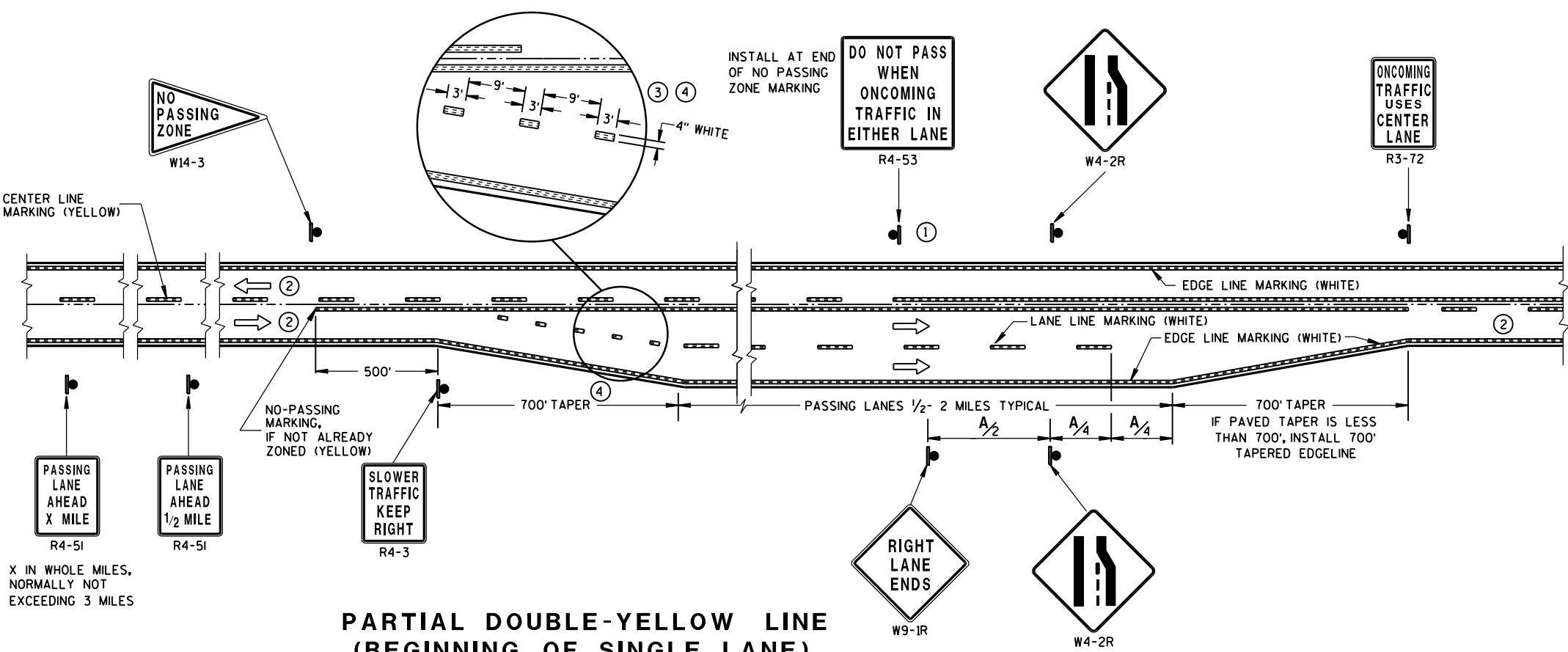
GENERAL NOTES

- 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

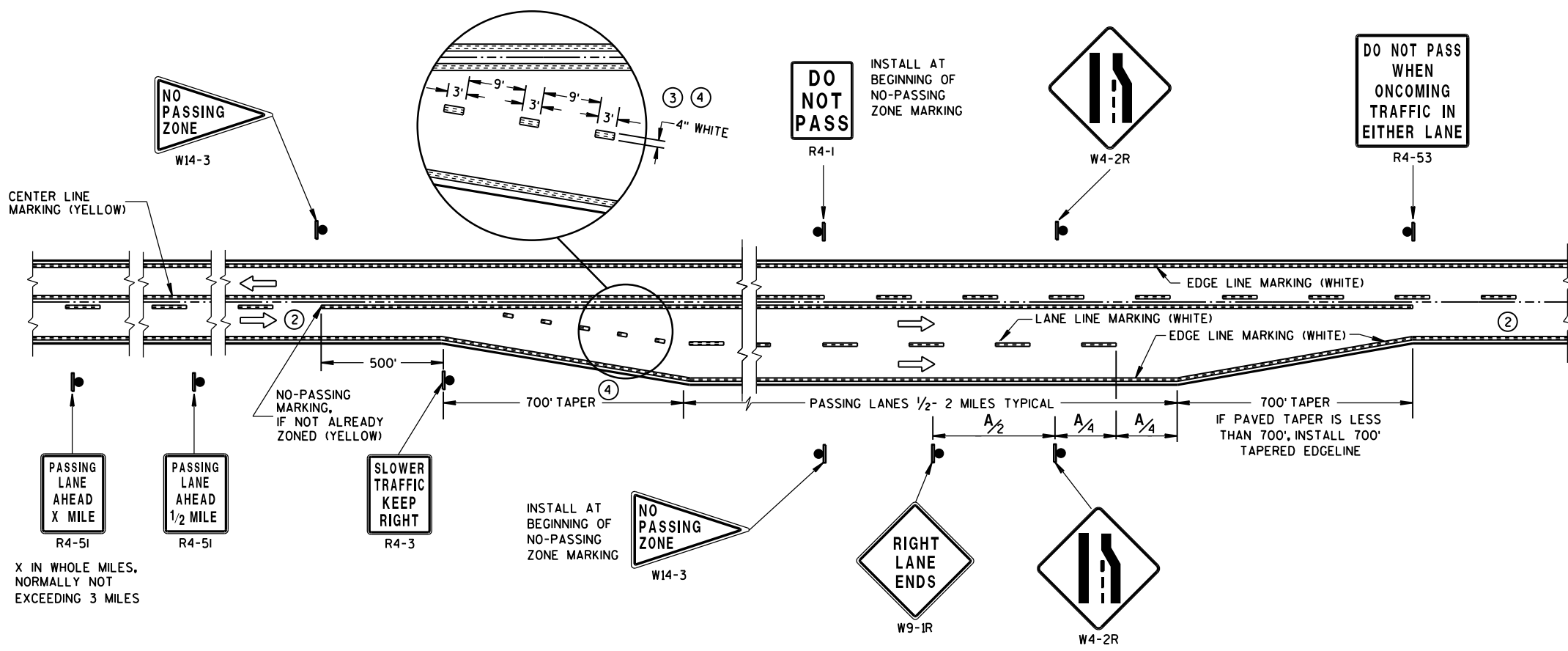
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950



**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)**

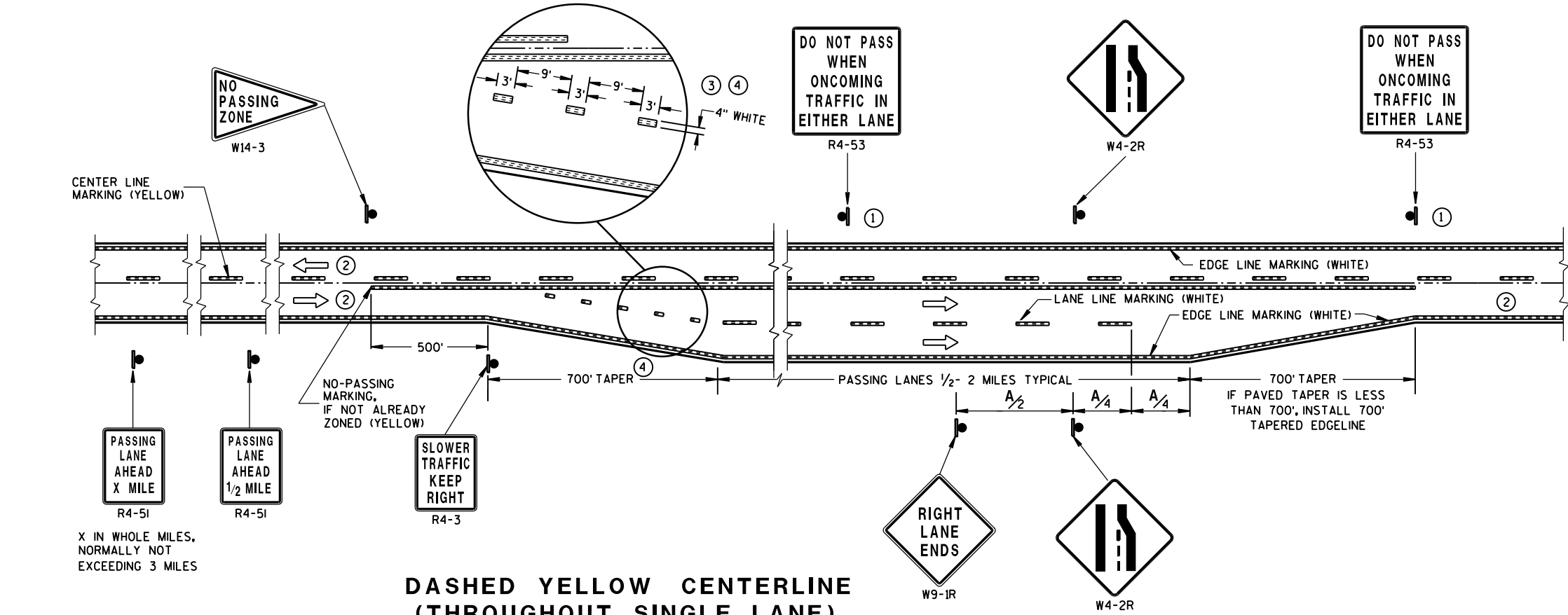
GENERAL NOTES

- 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

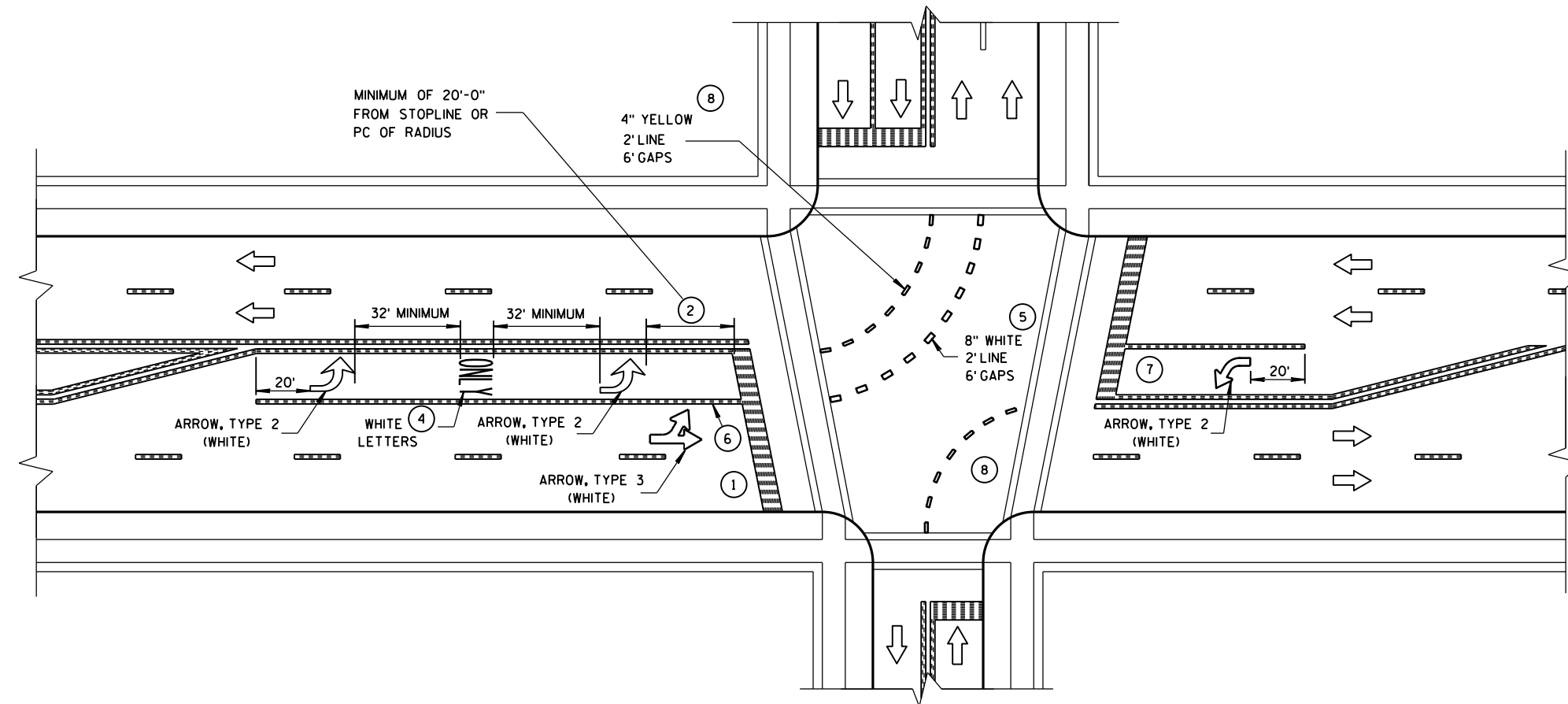
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950



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

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

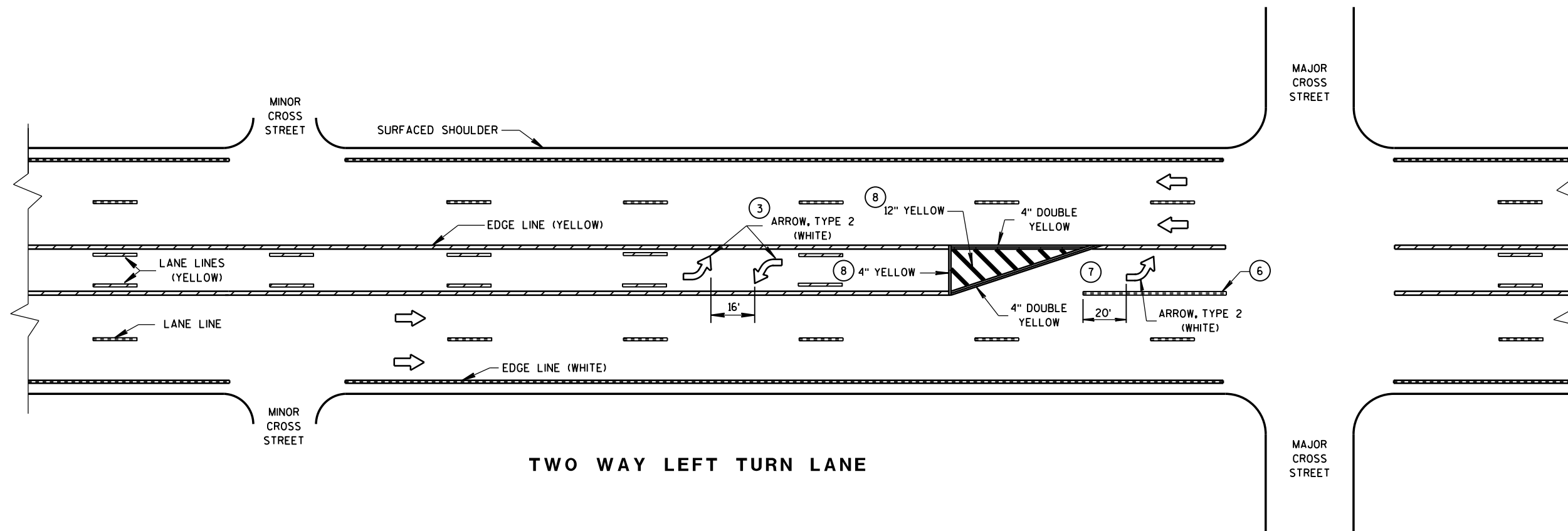
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

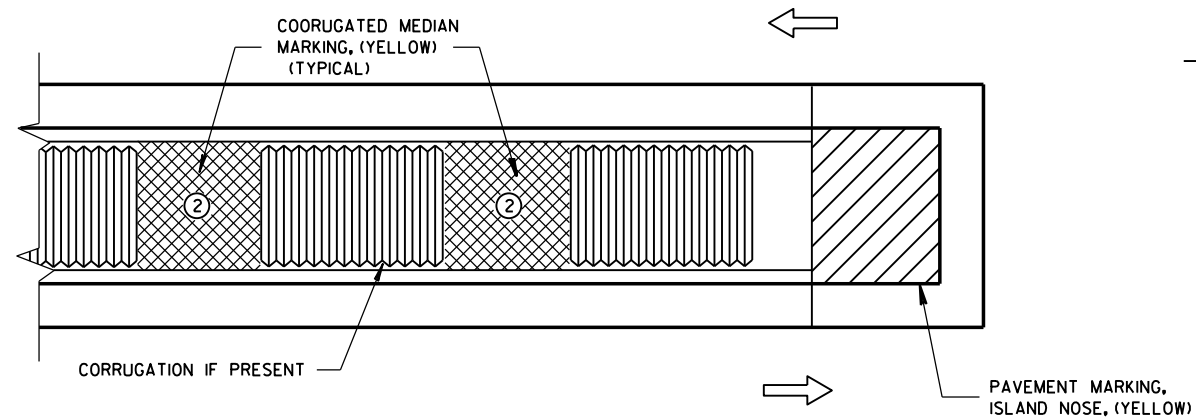
- ① STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DISTANCE MAY BE ADJUSTED TO ACCOMMODATE SHORT LEFT TURN LANES, AS APPROVED BY THE ENGINEER.
- ③ A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ④ ADD EXTRA SETS OF ONE ARROW AND ONE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

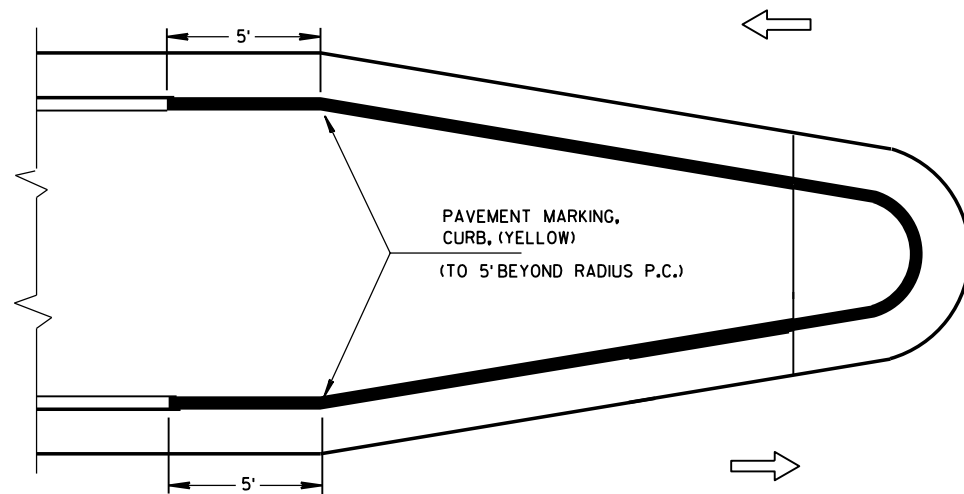


PAVEMENT MARKING
(LEFT TURN LANE)

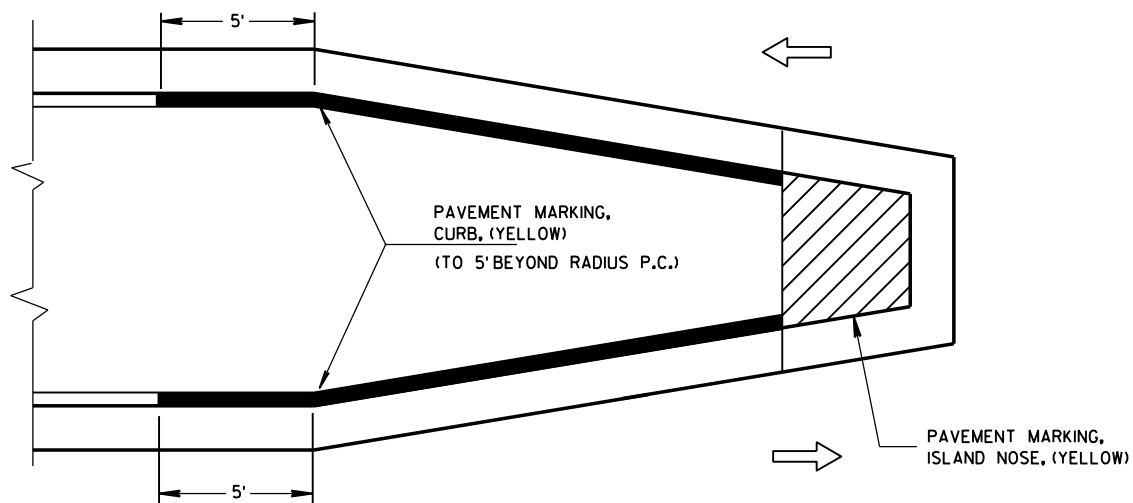
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

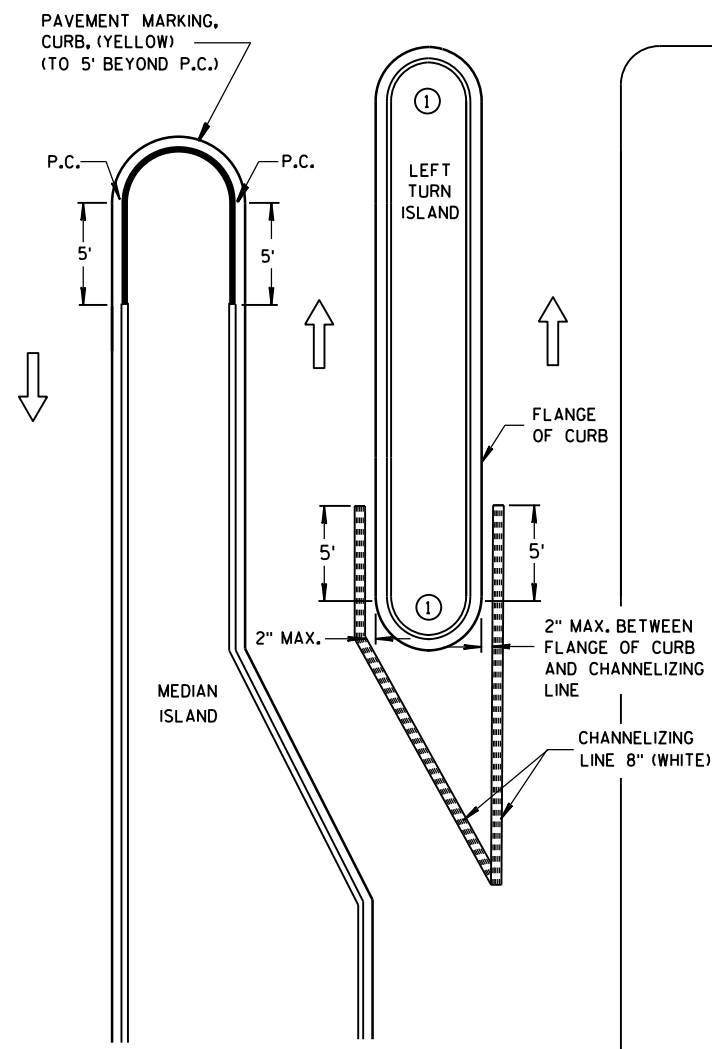


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

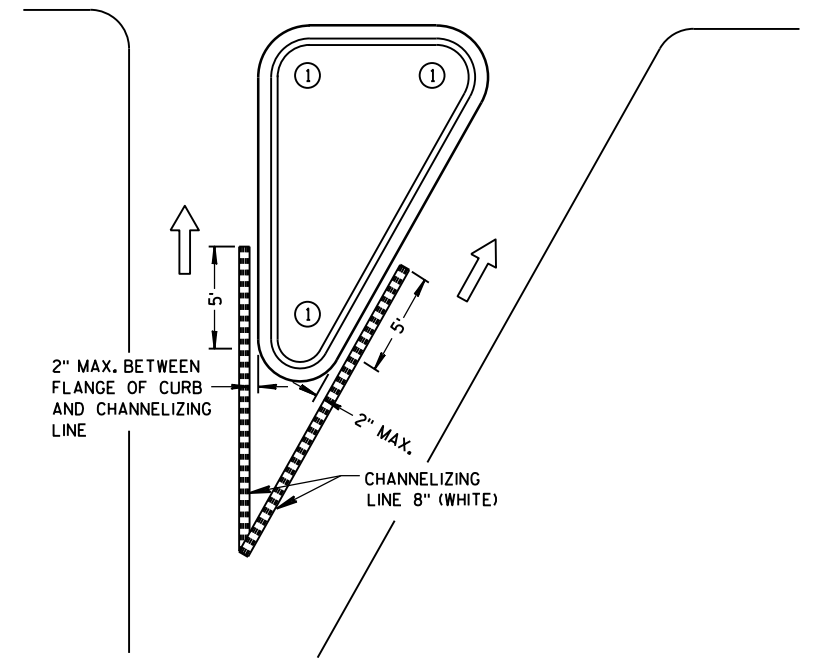
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



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.



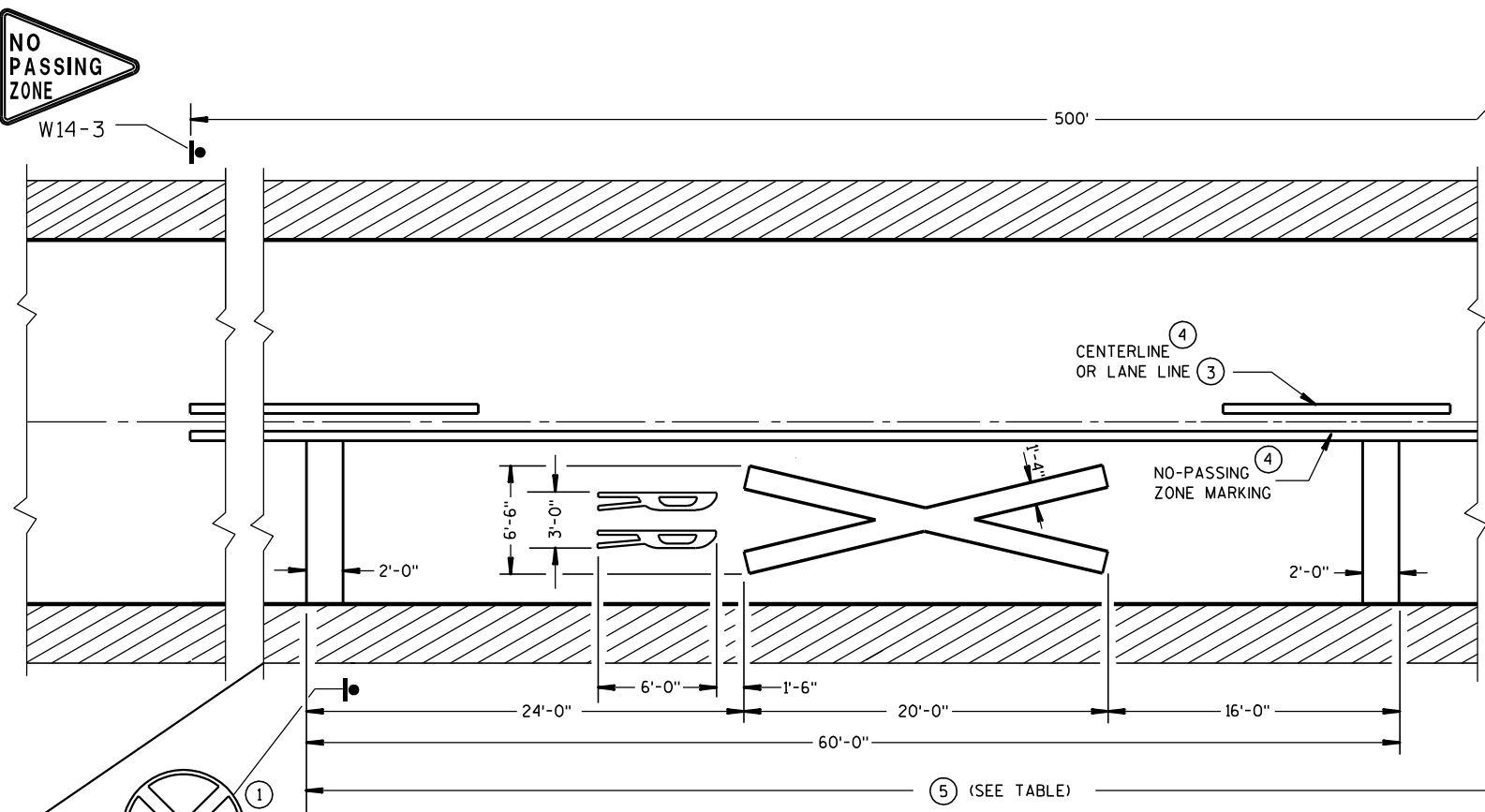
RIGHT TURN ISLAND

LEGEND

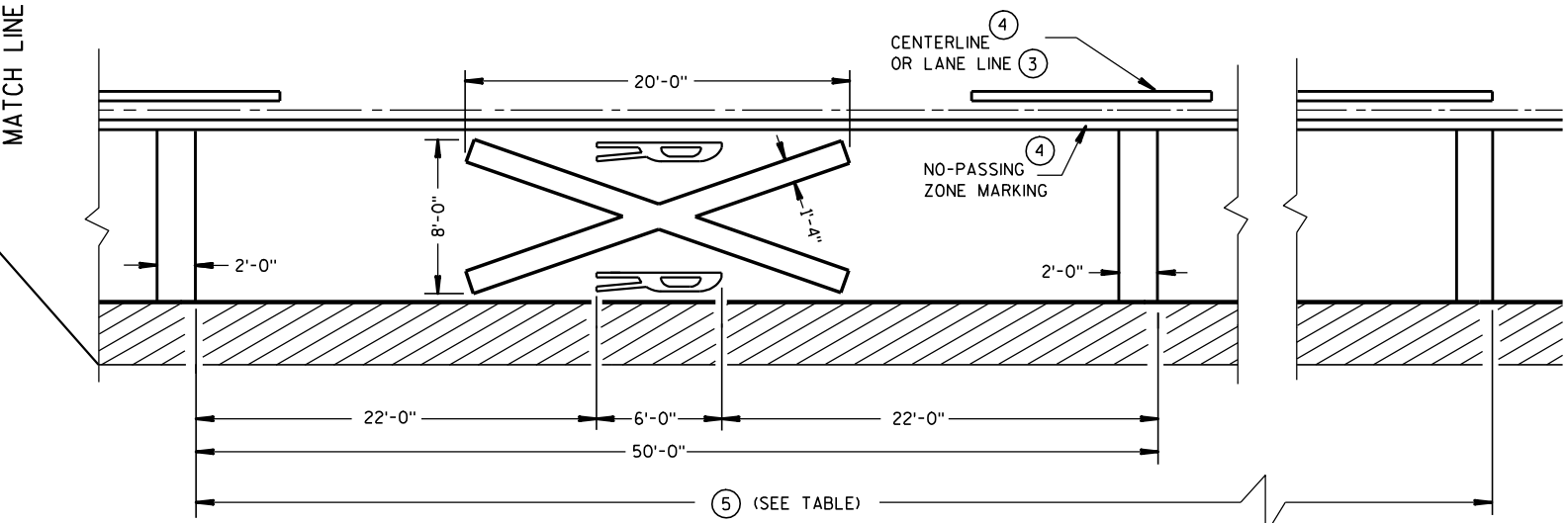
- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING (ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



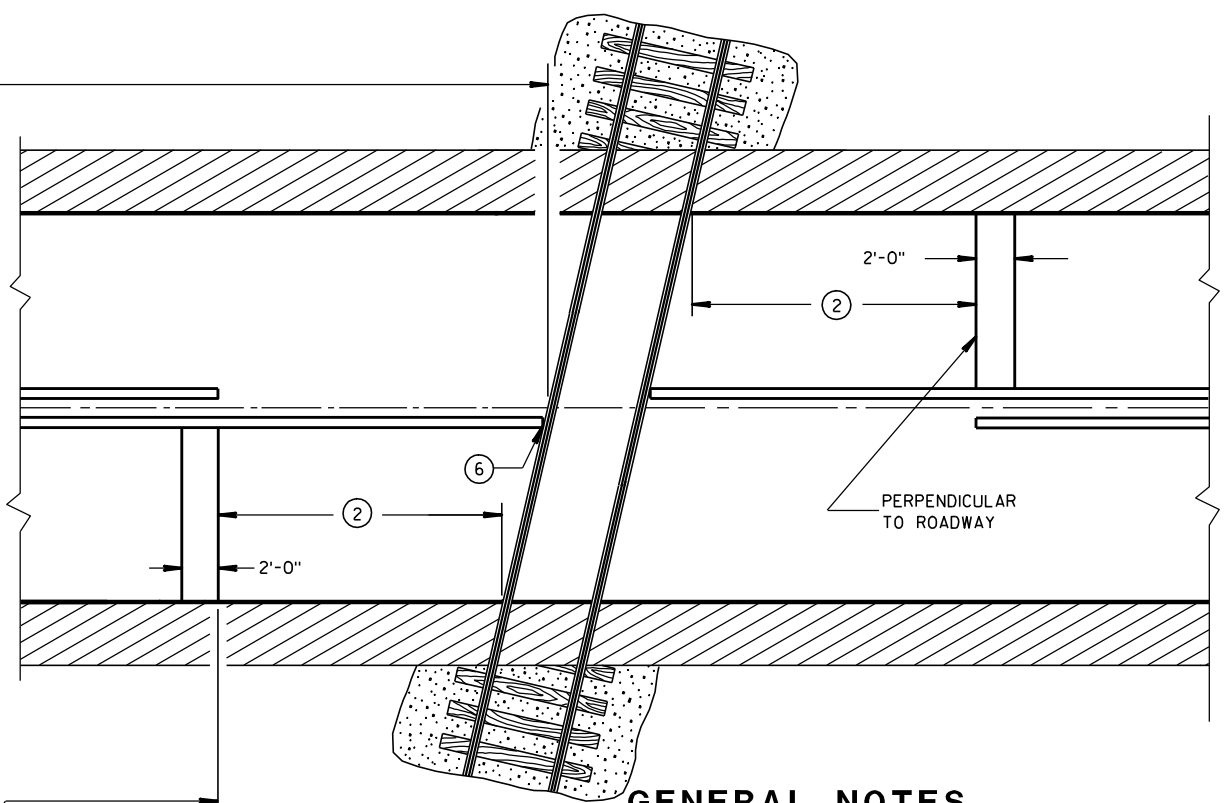
PREFERRED PAVEMENT MARKING



ALTERNATE PAVEMENT MARKING

Posted Speed (M.P.H.)	Dimension Range (Feet)
25	150*- 250
30	200*- 300
35	250*- 450
40	300*- 500
45	400*- 650
50	550*- 800
55	750*- 1000
60	1000*- 1250
65	1000*- 1250

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



GENERAL NOTES

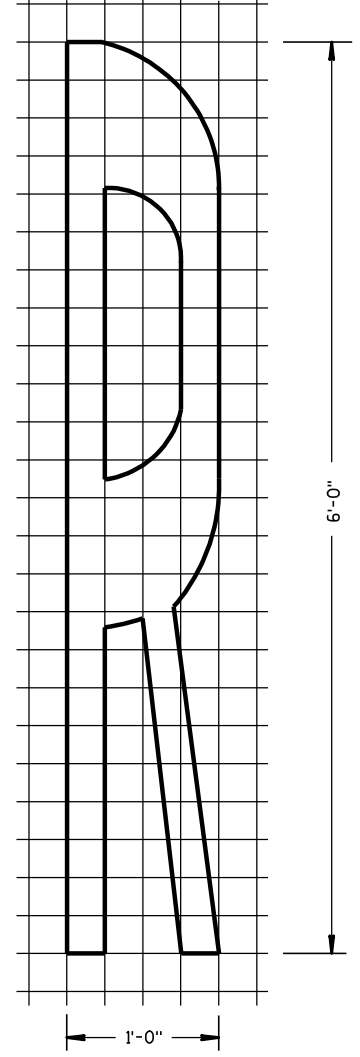
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

A THREE-LANE ROADWAY SHOULD BE MARKED WITH A CENTERLINE FOR TWO-LANE APPROACH OPERATION ON THE APPROACH TO A CROSSING.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE. ALL LETTERS AND SYMBOLS SHALL BE IN CONFORMANCE WITH THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" (ADOPTED BY THE FEDERAL HIGHWAY ADMINISTRATION).

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

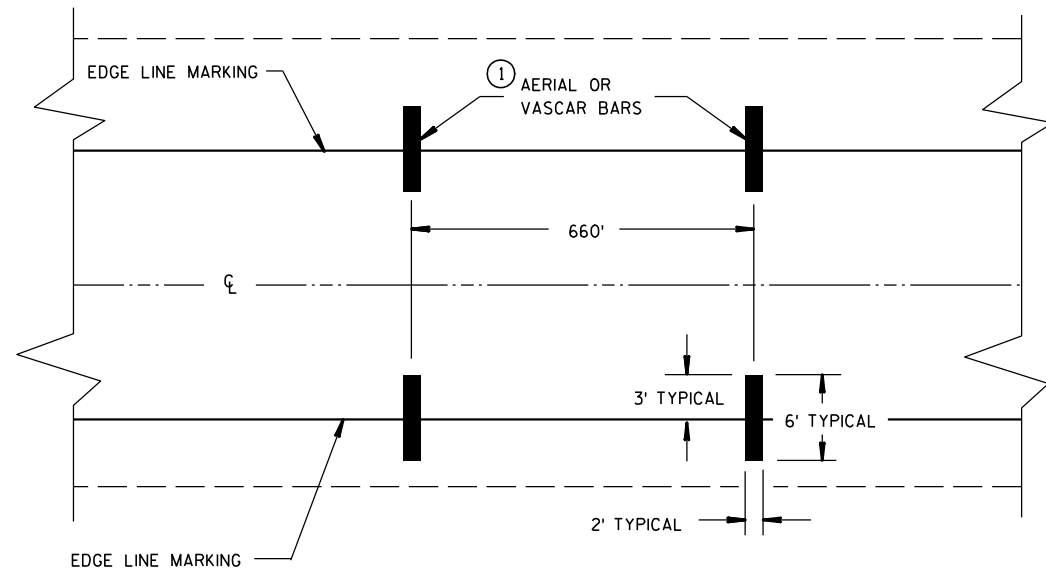
- ① A PORTION OF THE PAVEMENT MARKING SYMBOL SHOULD BE DIRECTLY OPPOSITE THE ADVANCE WARNING SIGN (W10-1).
- ② MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNALS, GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.
- ③ REFLECTIVE WHITE.
- ④ REFLECTIVE YELLOW 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.
- ⑤ TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ⑥ FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.



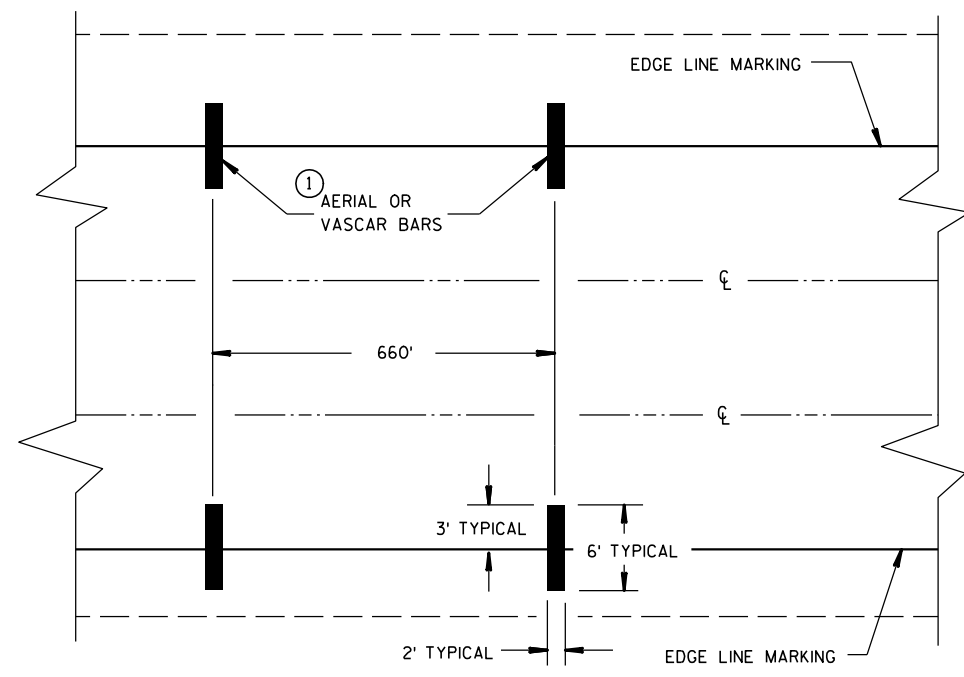
SIGNING AND PAVEMENT MARKING
DETAILS FOR RAILROAD-HIGHWAY
GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
1-9-2012 /S/ Thomas N. Notbohm
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



TYPICAL FOR TWO WAY OR ONE WAY TRAFFIC



TYPICAL FOR MULTILANE TRAFFIC

SPEED ENFORCEMENT ZONE WITH AERIAL OR VASCAR BARS

GENERAL NOTES

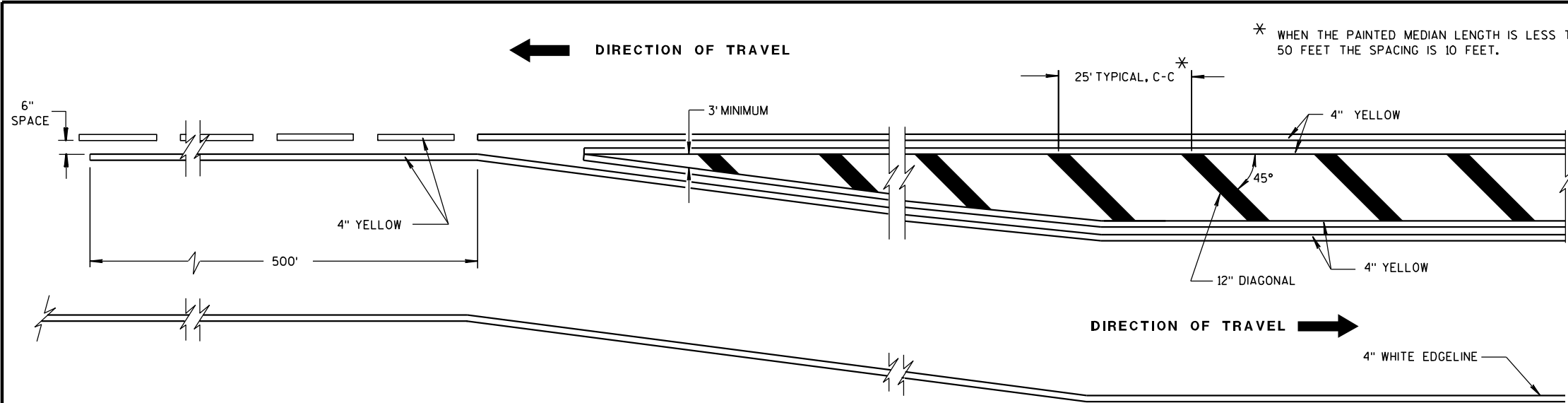
① NUMBER OF VASCAR OR AERIAL BARS SHALL BE A MINIMUM OF 2 OR A MAXIMUM OF 5 AT 660' SPACING.

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

AERIAL ENFORCEMENT BARS
PAVEMENT MARKING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

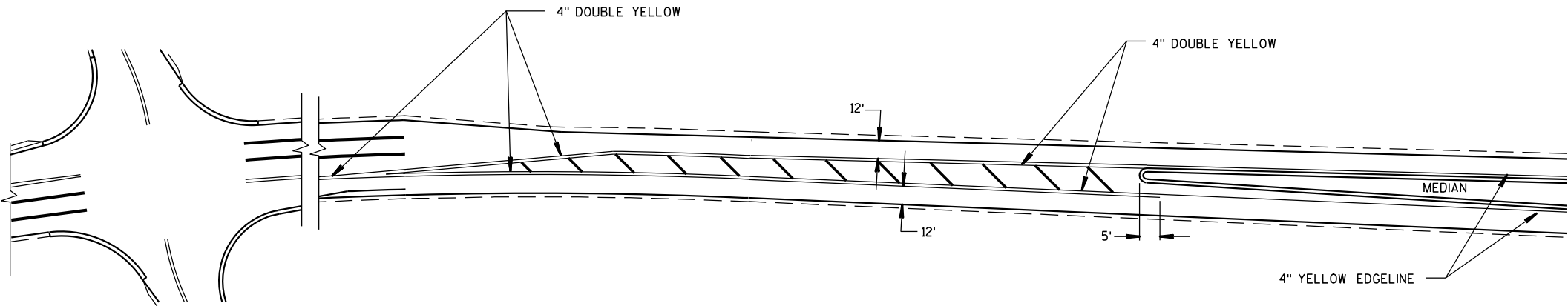
APPROVED
4/23/01 /S/ Chester J. Spang
DATE CHIEF SIGNS AND MARKING ENGINEER
FHWA



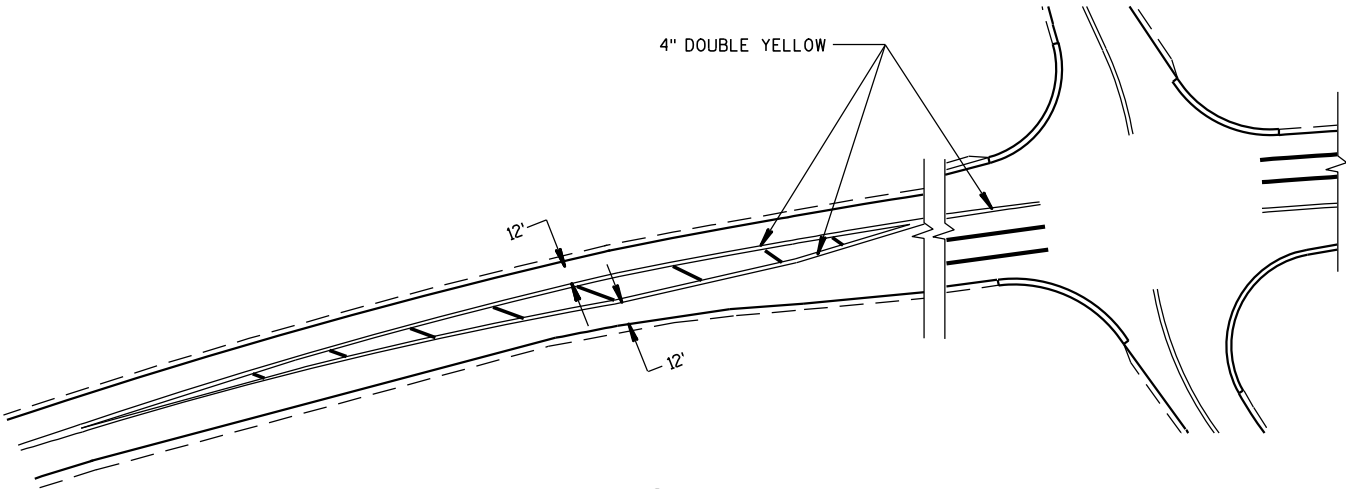
MEDIAN ISLAND DETAIL

GENERAL NOTE

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

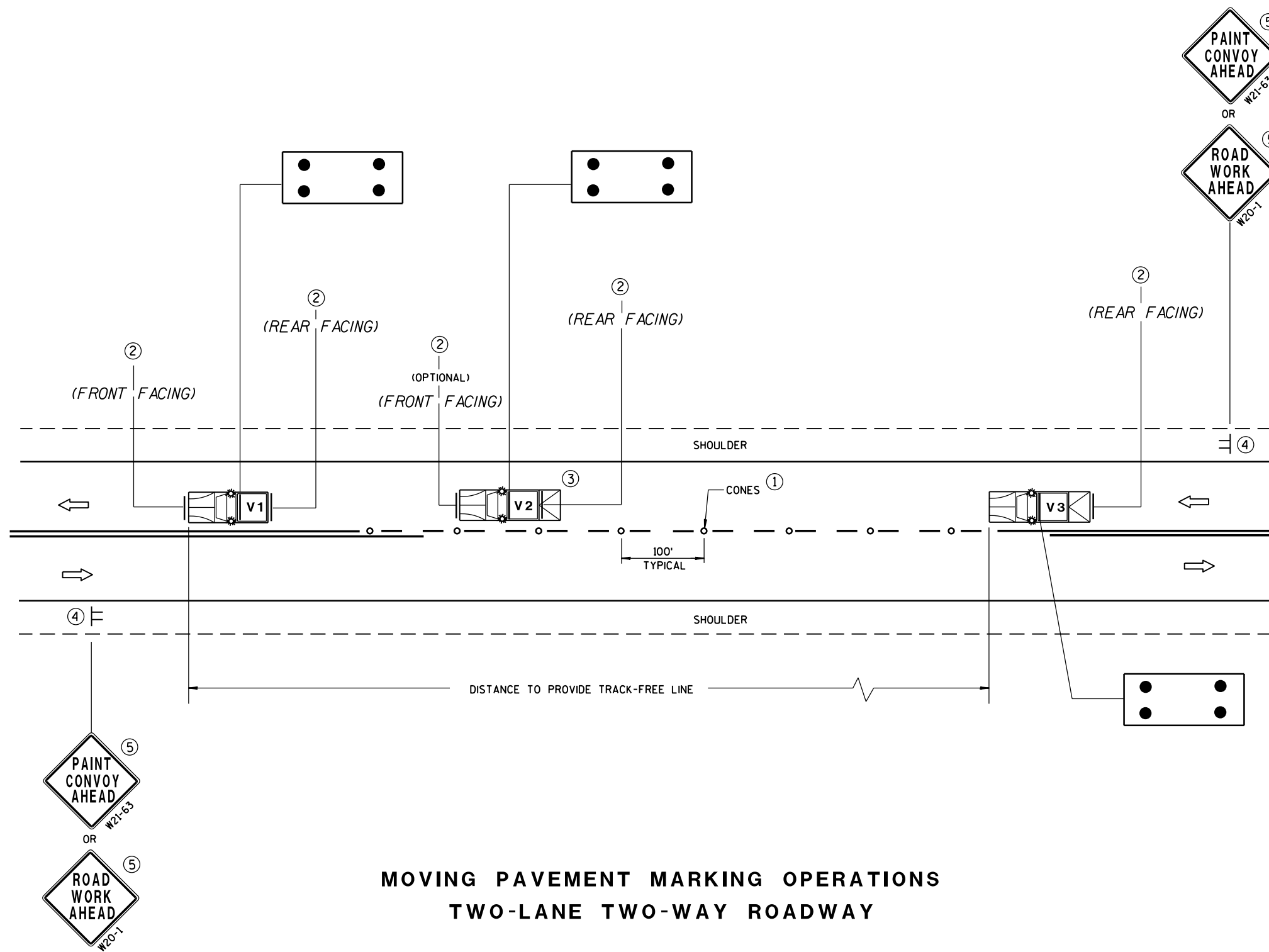


APPROACH MARKINGS FOR OTHER MEDIAN TYPES



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.

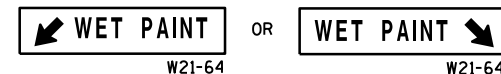
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

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

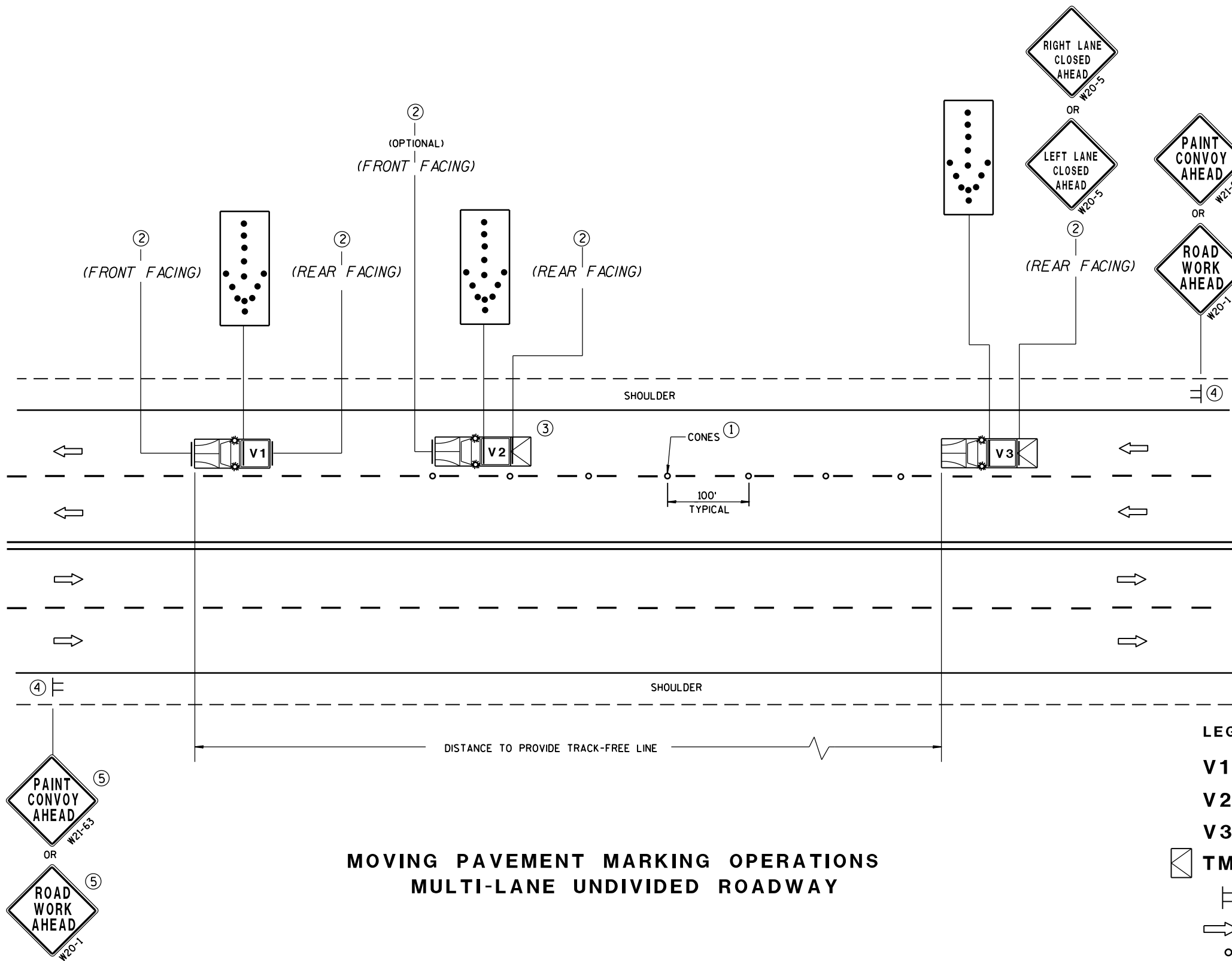
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/3/2013
DATE

FHWA

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

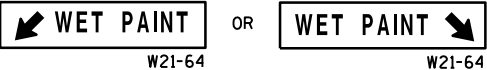


MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE UNDIVIDED ROADWAY

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 EDGE LINE 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 EDGE LINE 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)

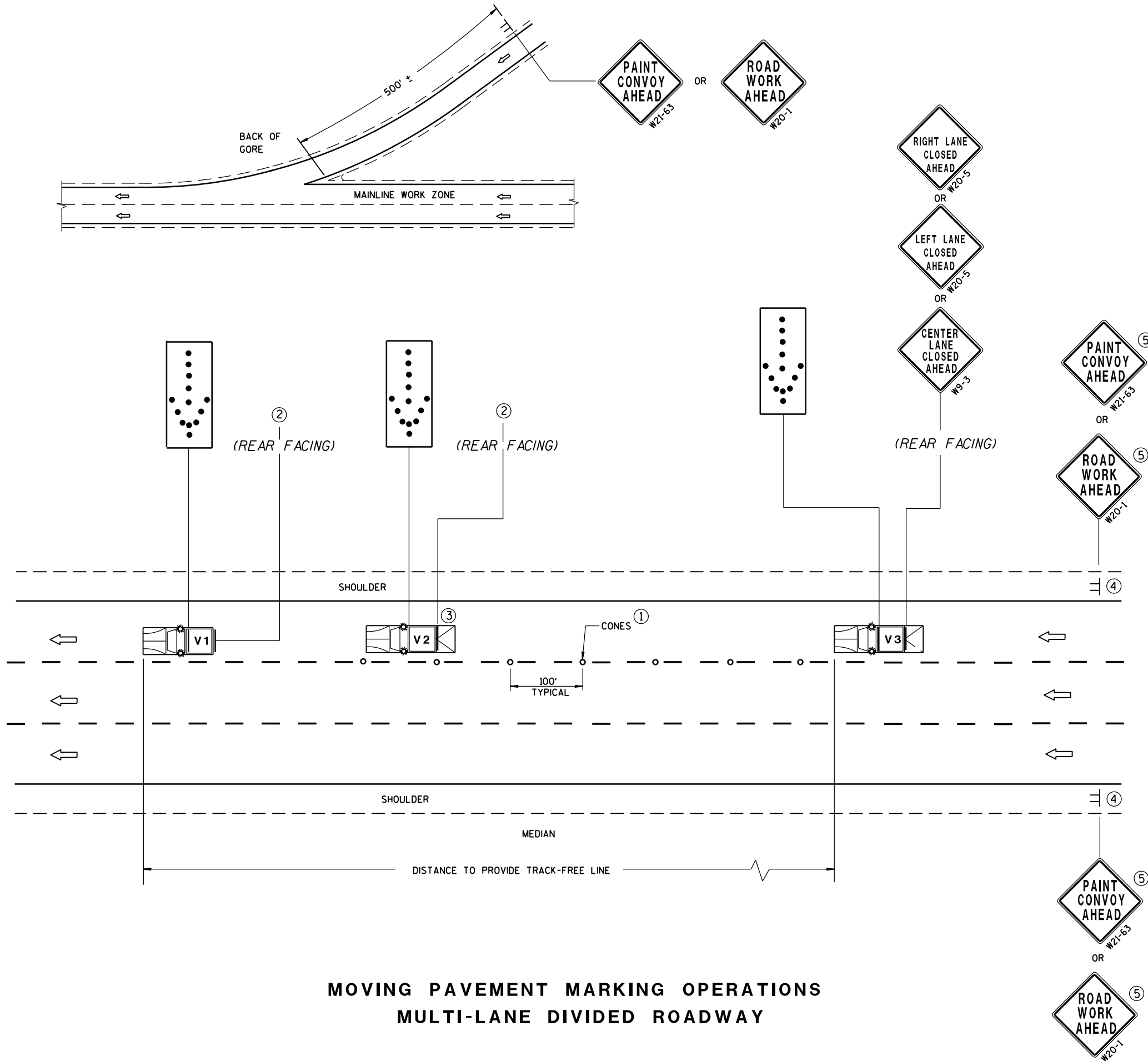
MOVING PAVEMENT MARKING
OPERATION
MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/3/2013
DATE

/s/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA



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 EDGE LINE 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 EDGE LINE 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 TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- CONES
- FLASHING ARROW PANEL (MERGE)

MOVING PAVEMENT MARKING
OPERATION
MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/3/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

GENERAL NOTES

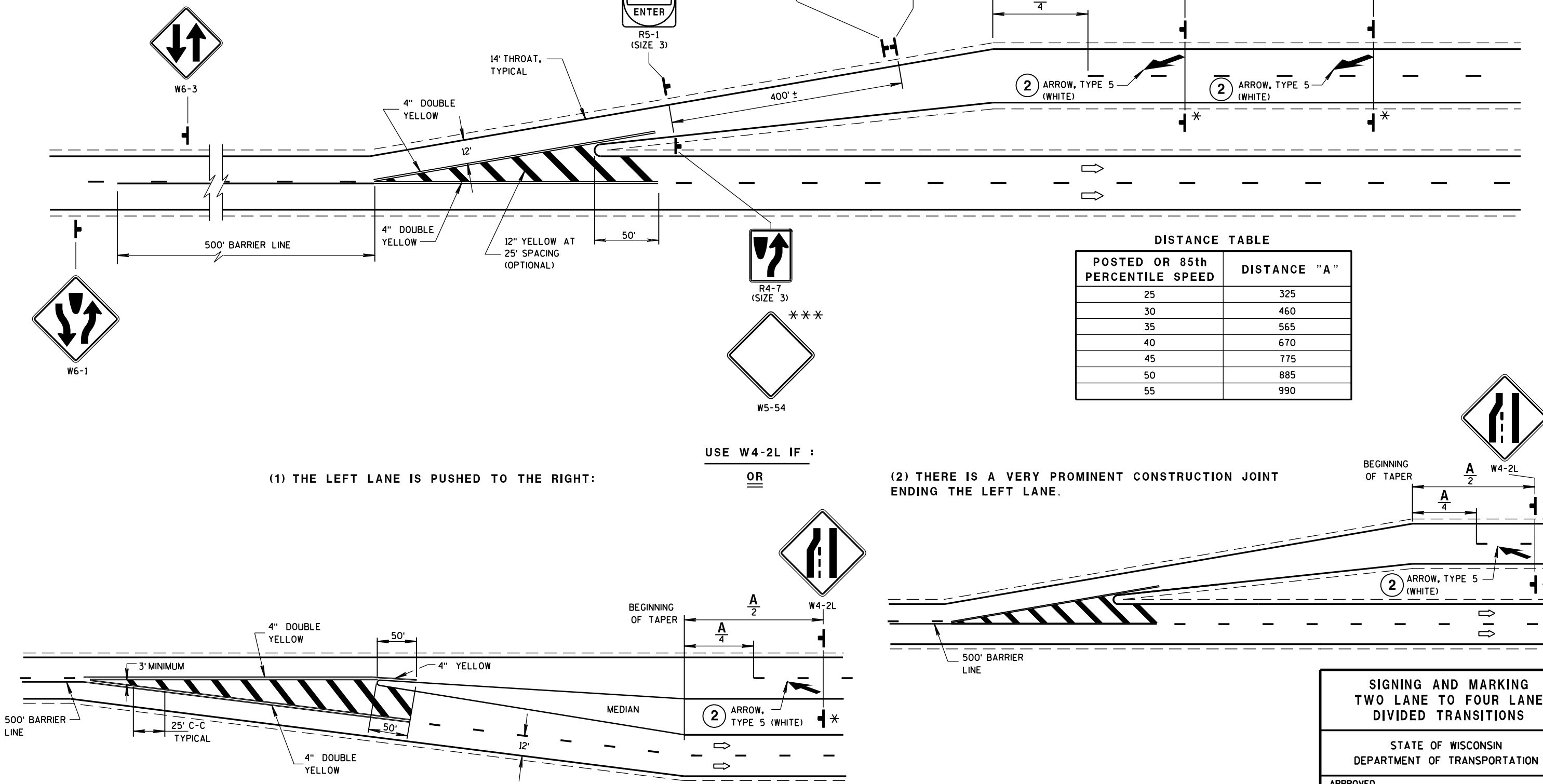
SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

- 1 WRONG WAY PREVENTION SIGNS ARE DISCUSSED IN T G M 2-15-12
- 2 REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT

SYMBOLS

- * OPTIONAL SIGNS
- ** SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT
- *** IF POSTED SPEED 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN)
- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC FLOW



(1) THE LEFT LANE IS PUSHED TO THE RIGHT:

USE W4-2L IF :
OR

(2) THERE IS A VERY PROMINENT CONSTRUCTION JOINT ENDING THE LEFT LANE.

SIGNING AND MARKING
TWO LANE TO FOUR LANE
DIVIDED TRANSITIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

LEGEND

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

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

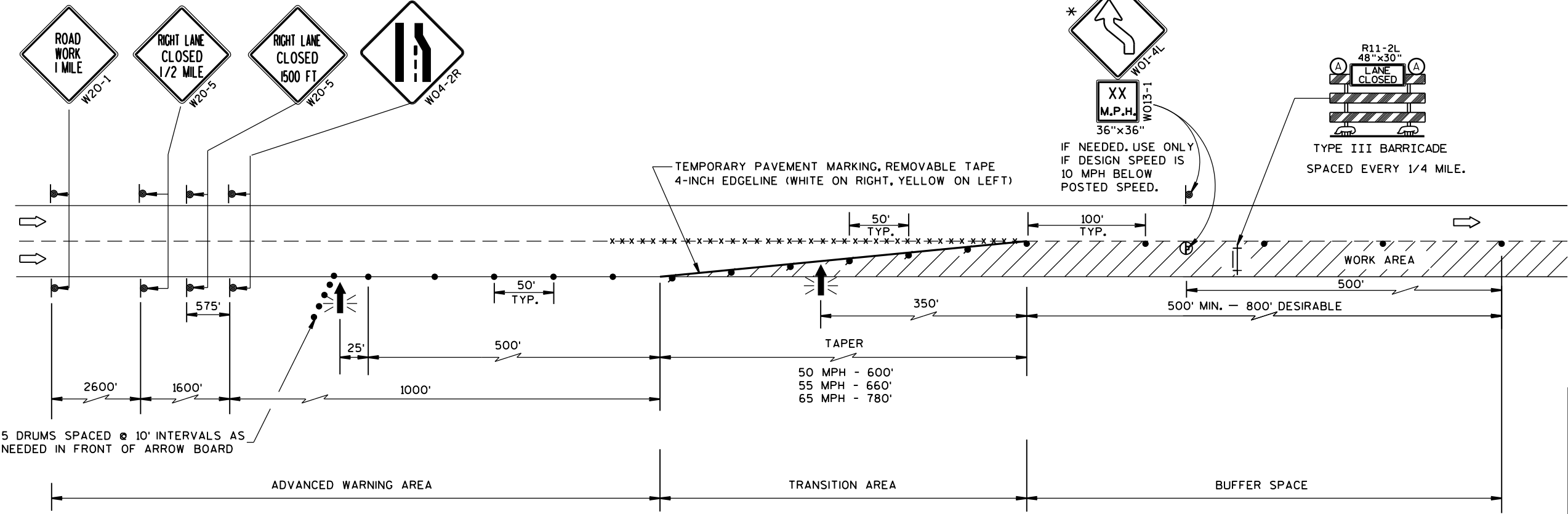
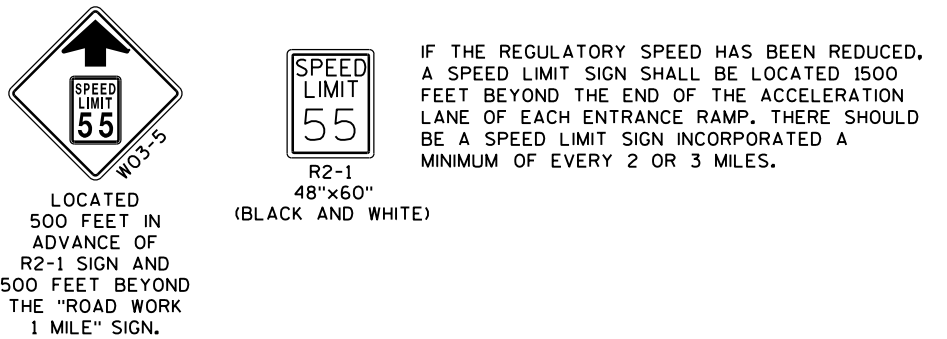
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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

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

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

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



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



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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