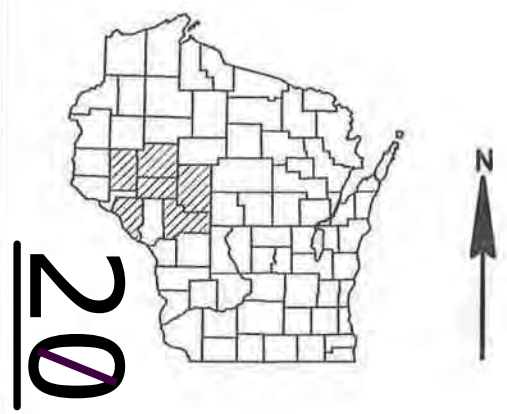


EAU NOV 2016  
PROJECT ID: 9227-01-26  
WITH: COUNTY: N.W. REGION

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. 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 = 34



DESIGN DESIGNATION

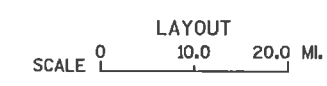
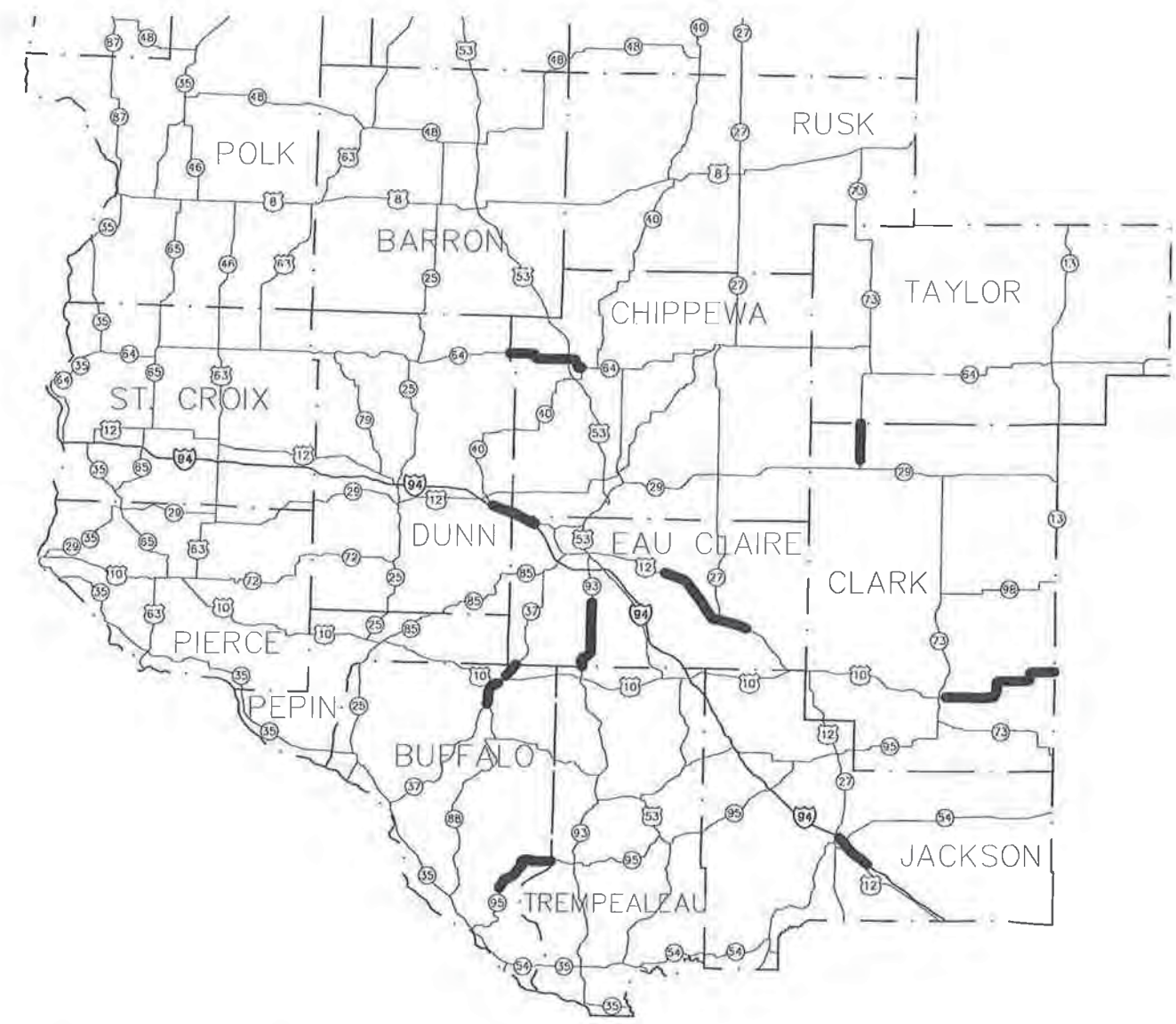
A.A.D.T.	=	N/A
A.A.D.T.	=	N/A
D.H.V.	=	N/A
D.D.	=	N/A
T.	=	N/A
DESIGN SPEED	=	N/A
ESALS	=	N/A

CONVENTIONAL SYMBOLS

PLAN	////
CORPORATE LIMITS	—
REFERENCE LINE	—
COMBUSTIBLE FLUIDS	CAUTION
UTILITIES	
ELECTRIC	— E —
FIBER OPTIC	— FO —
GAS	— G —
SANITARY SEWER	— SAN —
STORM SEWER	— SS —
TELEPHONE	— T —
WATER	— W —
UTILITY PEDESTAL	⊕
POWER POLE	⊕
TELEPHONE POLE	⊕

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
PLAN OF PROPOSED IMPROVEMENT  
NORTHWEST REGION, CRACKFILL  
VARIOUS HIGHWAYS (CRACKFILL)  
VARIOUS HIGHWAYS  
NORTHWEST REGION WIDE

STATE PROJECT NUMBER  
9227-01-26



STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9227-01-26		

ORIGINAL PLANS PREPARED BY

**KL Engineering**  
[A] Better Experience

**WISCONSIN**  
PROFESSIONAL ENGINEER  
BRADLEY J. CUNNINGHAM  
PE-37935-006  
MT. HOREB, WI

4-15-16 (Date) *Buddy* (Signature)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	N/A
Designer	KL ENGINEERING/WISDOT
Project Manager	MOHAMAD HAYEK
Regional Examiner	CHRISTINE KOSKI
Regional Supervisor	MARK FLOEDERER

APPROVED FOR THE DEPARTMENT

DATE: 4/15/16 *[Signature]* (Signature)

E

**NORTHWEST REGION TRAFFIC CONTACT**

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

**NORTHWEST REGION DNR CONTACTS**

(CHIPPEWA, CLARK, DUNN, EAU CLAIRE,  
PEPIN, PIERCE, ST. CROIX)  
CHRIS WILLGER  
DNR WEST CENTRAL REGION HQ  
1300 WEST CLAIREMONT STREET  
EAU CLAIRE, WI 54701  
PHONE: (715) 839-1609

(BUFFALO, TREMPPEALEAU, JACKSON)  
KAREN KALVELAGE  
DNR SERVICE CENTRAL  
3550 MORMON COULEE ROAD  
LACROSSE, WI 54601  
PHONE: (608) 785-9115

**GENERAL NOTES**

THE ENGINEER WILL DETERMINE ANY DETAILS OF CONSTRUCTION NOT SHOWN ON THE PLAN.

TEMPORARY RAISED MARKERS WILL BE USED WHEN: 50 PERCENT OF MORE OF THE CENTERLINE IS OBSTRUCTED AND PERMANENT PAVEMENT MARKINGS WILL NOT BE APPLIED FOR MORE THAN 24 HOURS.

ALL WASTE MATERIAL RESULTING FROM THE VARIOUS OPERATIONS UNDER THIS CONTRACT SHALL BE COLLECTED TO BE PROPERLY DISPOSED OF PRIOR TO REOPENING LANES TO TRAFFIC.

THE CONTRACTOR IS TO WORK WITH THE UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.

LOCATION OF EXISTING UTILITY FACILITIES LOCATED WITHIN THE PROJECT ARE NOT SHOWN ON THE PLANS.

\*STRUCTURES THAT HAVE CONCRETE DECK SHALL NOT HAVE SEALANT APPLIED TO THEM, BUT WILL HAVE THE PROJECT ENGINEER DETERMINE IF THEY WILL HAVE PAVEMENT MARKINGS APPLIED OR NOT.

\*STRUCTURES THAT HAVE ASPHALTIC SURFACE SHALL BE CRACK SEALED AND HAVE PAVEMENT MARKINGS APPLIED WITH THE REST OF THE SEGMENT.

**RAILROAD NOTES**

RAILROAD INSURANCE AND COORDINATION REQUIRED FOR ANY AND ALL WORK AT-GRADE RAILROAD CROSSINGS. WORK ON THIS CONTRACT INVOLVES JOINT SEALING NEAR RAILROAD CROSSINGS OWNED BY THE FOLLOWING RAILROAD COMPANIES. SEE SPECIAL PROVISIONS FOR CONTACT INFORMATION.

- PGR "PROGRESSIVE RAIL" - WISCONSIN NORTHERN RAILROAD
- UNION PACIFIC RAILROAD COMPANY



**BUFFALO 07  
SPECIAL MARKING**

**BUFFALO 1B  
MONDOVI - EAU CLAIRE  
STH 37  
(CLOVERLEAF RD - NCL)**

C/L MILES: 1.80 \*

**BUFFALO 02C  
SPECIAL MARKING**

**BUFFALO 1A  
ALMA - MONDOVI  
STH 37  
(STH 88 - USH 10)**

C/L MILES: 3.50 \*

**BUFFALO 2  
FOUNTAIN CITY - ARCADIA  
STH 95  
(CTH G - ECL)**

C/L MILES: 8.51 \*

\* STRUCTURES: SEE GENERAL NOTES

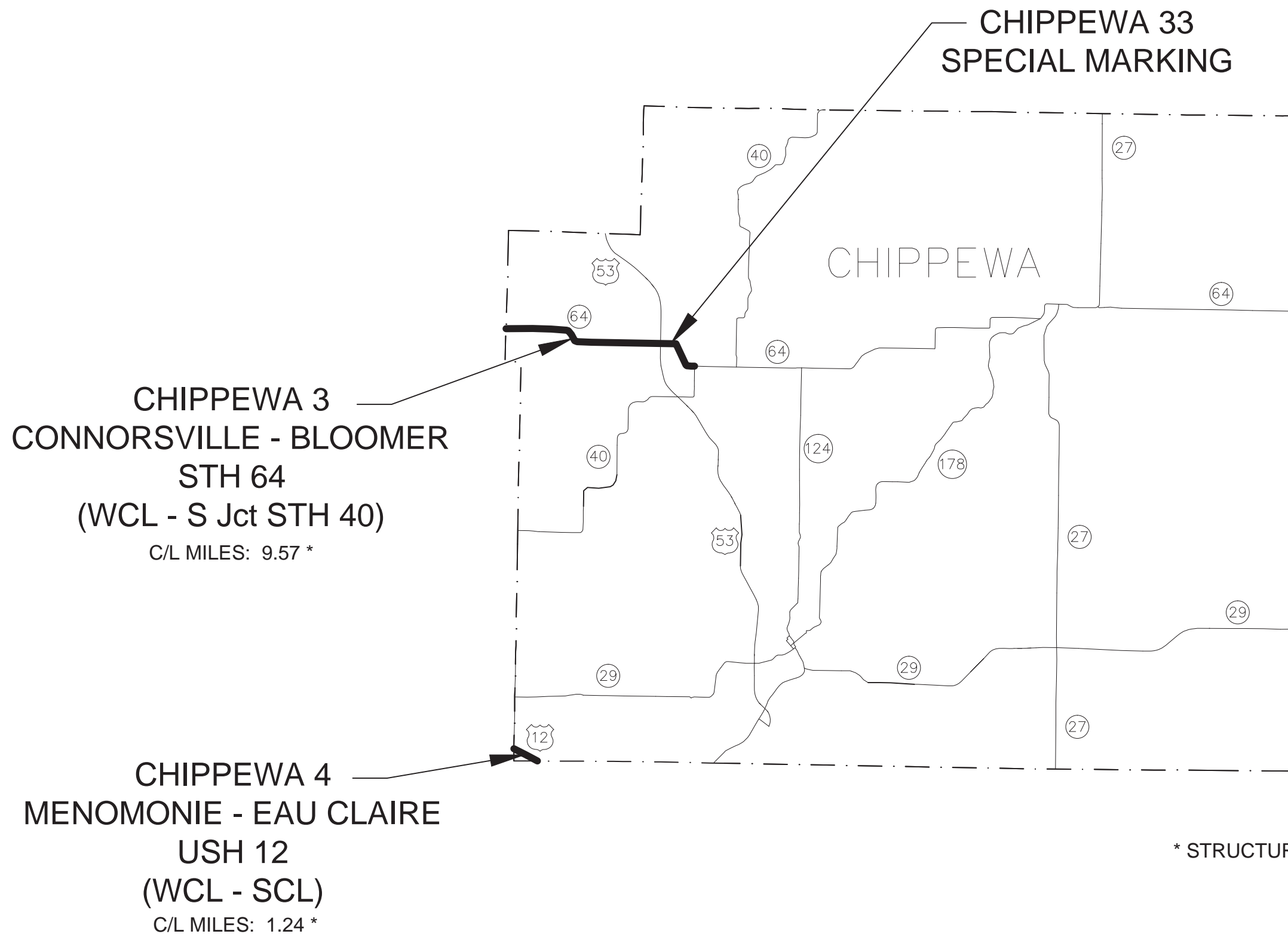


**BUFFALO**

N

CONSTRUCTION NOTES

MILEAGE RANGES ARE APPROXIMATE  
ACTUAL FIELD CONDITIONS MAY VARY.



CHIPPEWA

CONSTRUCTION NOTES

MILEAGE RANGES ARE APPROXIMATE  
ACTUAL FIELD CONDITIONS MAY VARY.

\* STRUCTURES: SEE GENERAL NOTES

CLARK 5  
THORP - INGRAM  
STH 73  
(NYE STREET - NCL)

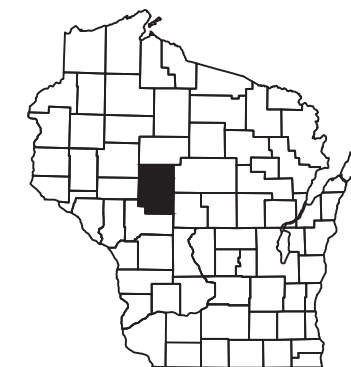
C/L MILES: 4.50 \*

CLARK 02  
SPECIAL MARKING

\* STRUCTURES: SEE GENERAL NOTES

CLARK 13  
SPECIAL MARKING

CLARK 6  
NEILLSVILLE - MARSHFIELD  
USH 10  
(BOON BLVD - ECL)  
C/L MILES: 15.75 \*

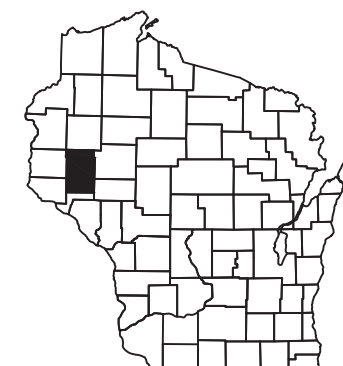
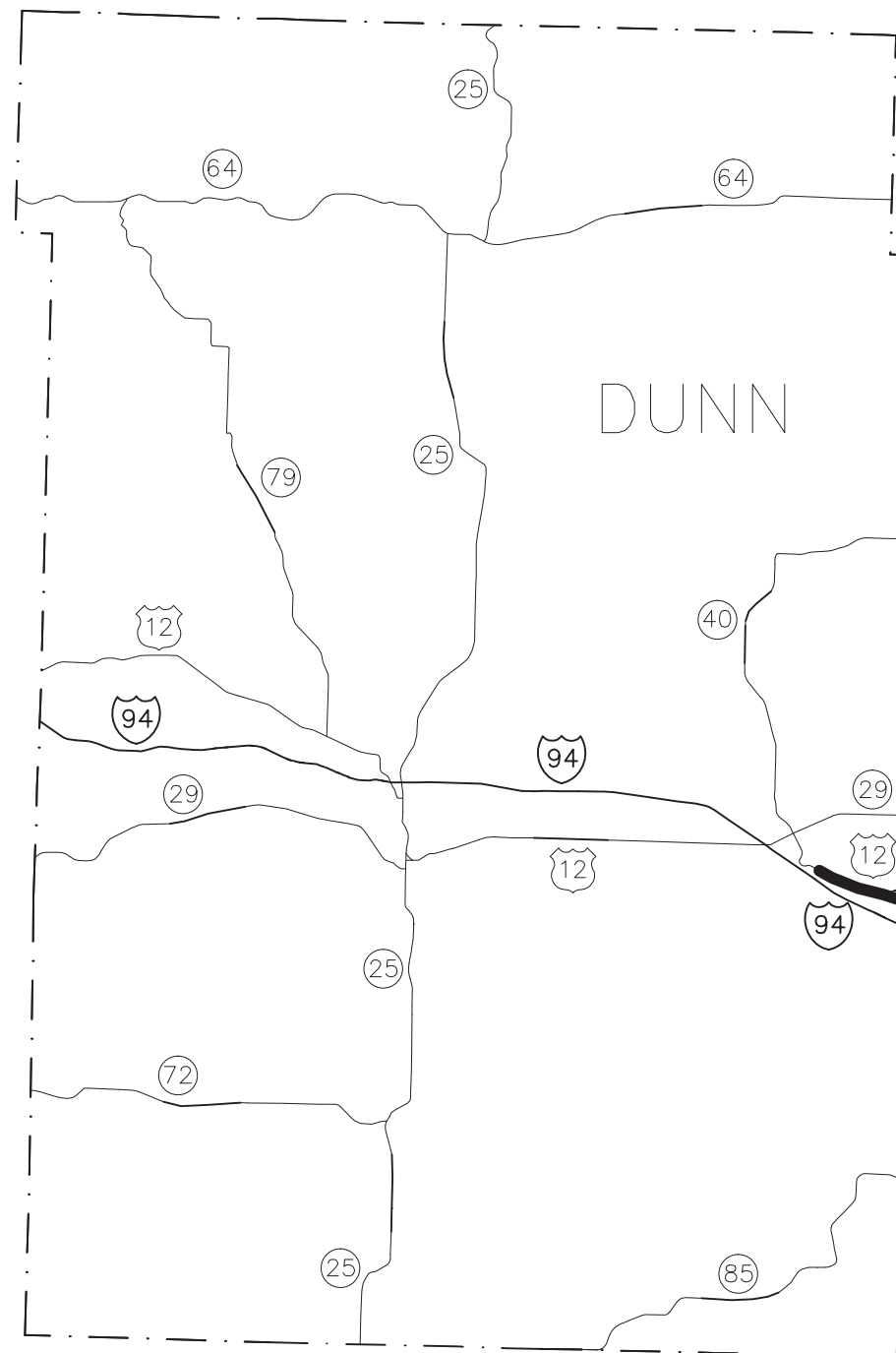


CLARK

N

CONSTRUCTION NOTES

MILEAGE RANGES ARE APPROXIMATE  
ACTUAL FIELD CONDITIONS MAY VARY.



DUNN

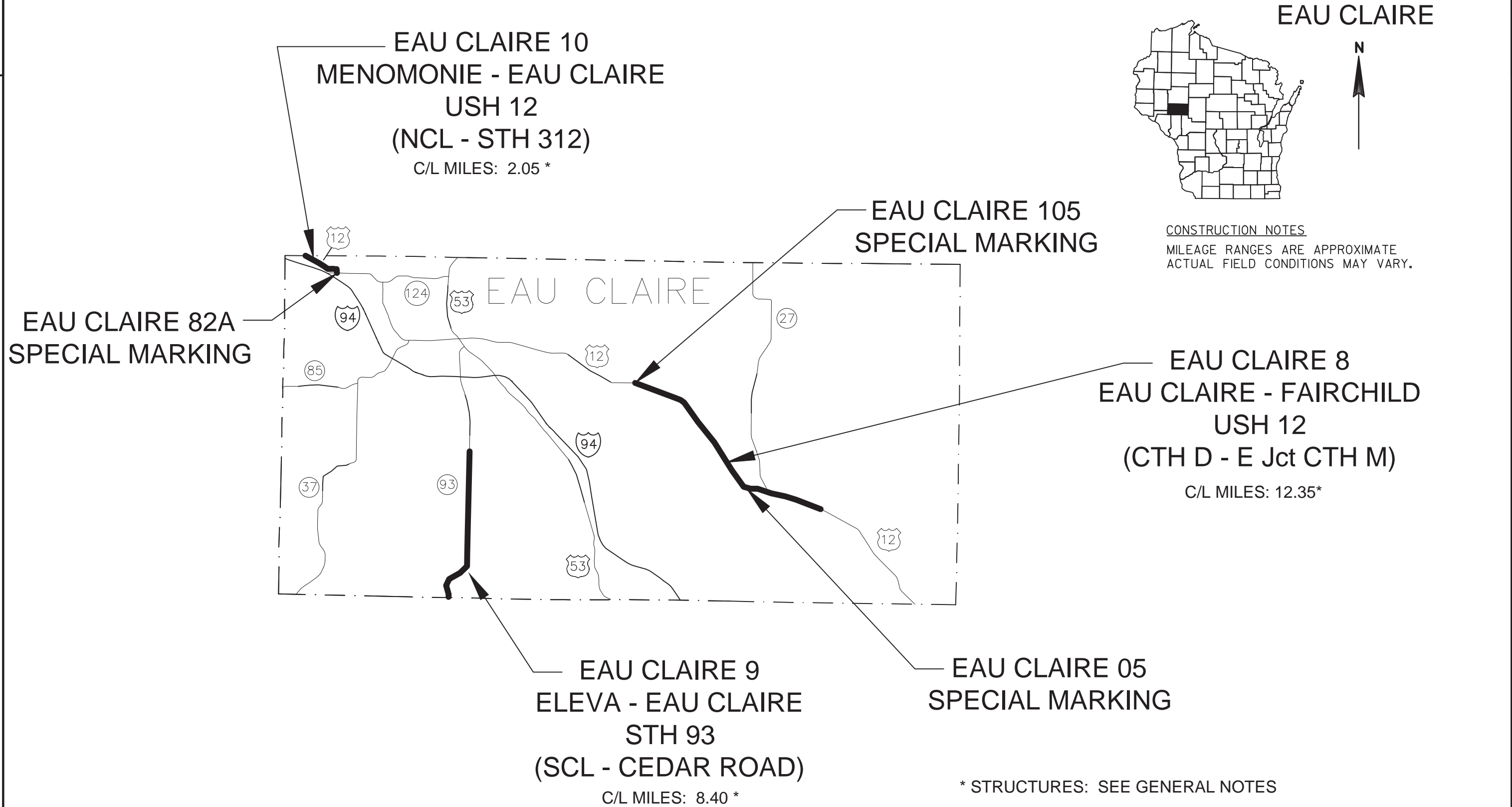


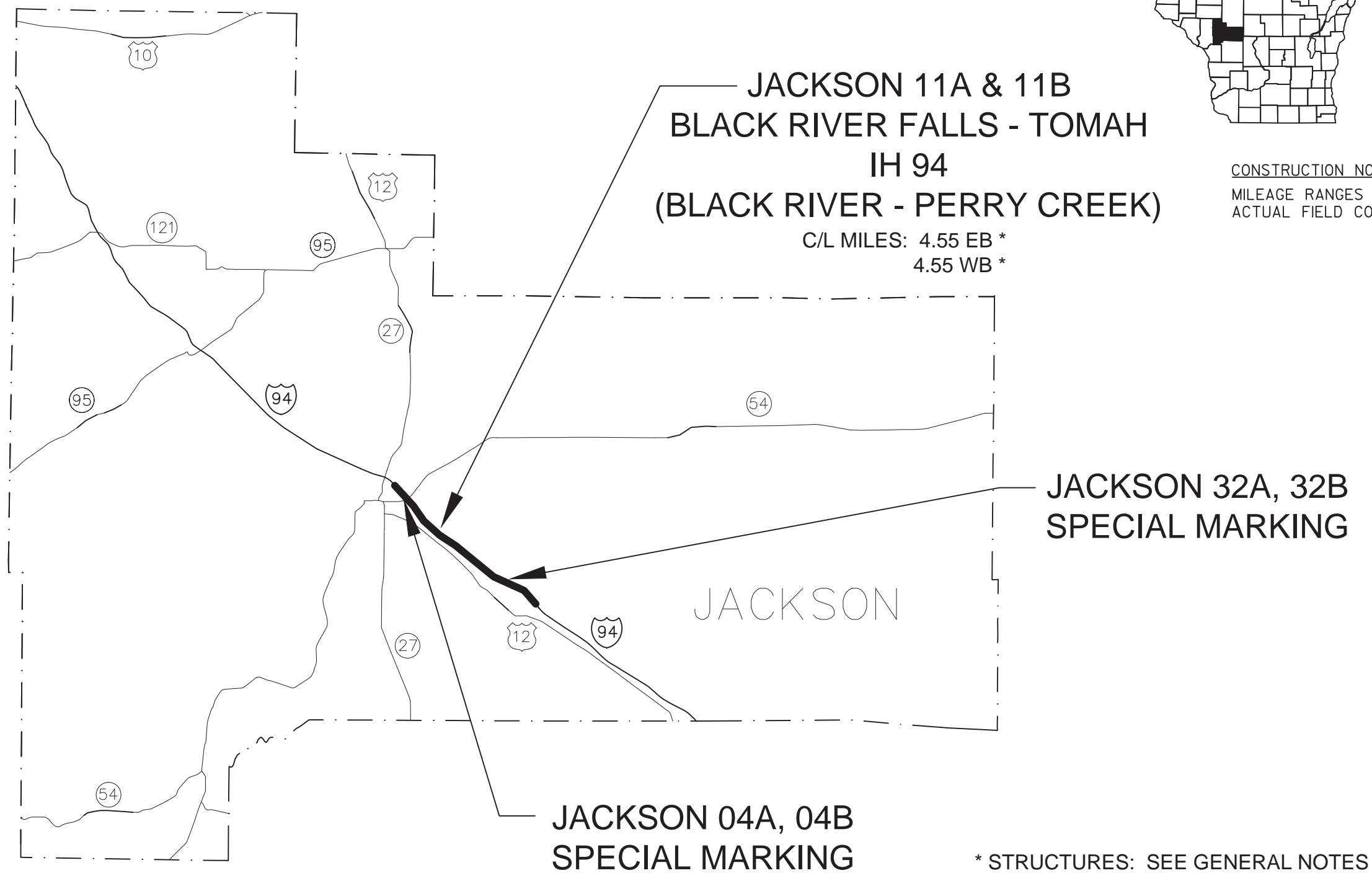
CONSTRUCTION NOTES

MILEAGE RANGES ARE APPROXIMATE  
ACTUAL FIELD CONDITIONS MAY VARY.

DUNN 7  
MENOMONIE - EAU CLAIRE  
USH 12  
(PRINCETON DR - ECL)  
C/L MILES: 2.70 \*

\* STRUCTURES: SEE GENERAL NOTES





DATE 01AUG16		E S T I M A T E O F Q U A N T I T I E S				
LINE					9227-01-26	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY	
0010	619. 1000	Mobilization	EACH	1. 000	1. 000	
0020	628. 7015	Inlet Protection Type C	EACH	70. 000	70. 000	
0030	643. 0100	Traffic Control (project) 01.	EACH	1. 000	1. 000	9227-01-26
0040	643. 0300	Traffic Control Drums	DAY	1, 400. 000	1, 400. 000	
0050	643. 0420	Traffic Control Barricades Type III	DAY	80. 000	80. 000	
0060	643. 0800	Traffic Control Arrow Boards	DAY	16. 000	16. 000	
0070	643. 0900	Traffic Control Signs	DAY	240. 000	240. 000	
0080	643. 1050	Traffic Control Signs PCMS	DAY	8. 000	8. 000	
0090	646. 0103	Pavement Marking Paint 4-Inch	LF	872, 325. 000	872, 325. 000	
0100	646. 0106	Pavement Marking Epoxy 4-Inch	LF	344, 371. 000	344, 371. 000	
0110	646. 0123	Pavement Marking Paint 8-Inch	LF	6, 976. 000	6, 976. 000	
0120	646. 0126	Pavement Marking Epoxy 8-Inch	LF	2, 245. 000	2, 245. 000	
0130	647. 0110	Pavement Marking Railroad Crossings	EACH	1. 000	1. 000	
0140	647. 0156	Epoxy Pavement Marking Arrows Epoxy Type 1	EACH	2. 000	2. 000	
0150	647. 0166	Pavement Marking Arrows Epoxy Type 2	EACH	5. 000	5. 000	
0160	647. 0356	Pavement Marking Words Epoxy	EACH	7. 000	7. 000	
0170	647. 0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	124. 000	124. 000	
0180	647. 0606	Pavement Marking Island Nose Epoxy	EACH	1. 000	1. 000	
0190	647. 0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	1, 296. 000	1, 296. 000	
0200	647. 0803	Pavement Marking Aerial Enforcement Bars Epoxy 24-Inch	LF	120. 000	120. 000	
0210	649. 0402	Temporary Pavement Marking Paint 4-Inch	LF	45, 000. 000	45, 000. 000	
0220	649. 2102	Temporary Raised Pavement Markers Type II	EACH	30, 000. 000	30, 000. 000	
0230	SPV. 0045	Special 01. Portable Changeable Message Sign (PCMS) Cellular Communications	DAY	8. 000	8. 000	
0240	SPV. 0090	Special 01. Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	13, 092. 000	13, 092. 000	
0250	SPV. 0090	Special 02. Pavement Marking Grooved Wet Reflective Epoxy 8-Inch	LF	3, 827. 000	3, 827. 000	
0260	SPV. 0125	Special 01. Sealing Asphaltic Pavement Cracks, STH 37 (STH 88 - NCL)	MI	10. 600	10. 600	
0270	SPV. 0125	Special 02. Sealing Asphaltic Pavement Cracks, STH 95 (CTH G - ECL)	MI	17. 020	17. 020	
0280	SPV. 0125	Special 03. Sealing Asphaltic Pavement Cracks, STH 64 (WCL - S. Jct STH 40)	MI	19. 140	19. 140	
0290	SPV. 0125	Special 04. Sealing Asphaltic Pavement Cracks, USH 12 (WCL - SCL)	MI	2. 480	2. 480	
0300	SPV. 0125	Special 05. Sealing Asphaltic Pavement Cracks, STH 73 (Nye Street - NCL)	MI	9. 000	9. 000	
0310	SPV. 0125	Special 06. Sealing Asphaltic Pavement Cracks, USH 10 (Boon Blvd - ECL)	MI	31. 500	31. 500	
0320	SPV. 0125	Special 07. Sealing Asphaltic Pavement Cracks, USH 12 (Princeton Drive - ECL)	MI	5. 120	5. 120	
0330	SPV. 0125	Special 08. Sealing Asphaltic Pavement Cracks, USH 12 (CTH D - E. Jct CTH M)	MI	24. 700	24. 700	
0340	SPV. 0125	Special 09. Sealing Asphaltic Pavement Cracks, STH 93 (SCL - Cedar Road)	MI	16. 800	16. 800	
0350	SPV. 0125	Special 10. Sealing Asphaltic Pavement Cracks, USH 12 (NCL - STH 312)	MI	8. 200	8. 200	
0360	SPV. 0125	Special 11. Sealing Asphaltic Pavement Cracks, IH 94 (Black River - Perry Creek)	MI	18. 200	18. 200	

3

MOBILIZATION			
CAT	LOCATION	619.1000 EACH	REMARKS
0010	PROJECT	1	
TOTAL 0010		1	

TEMPORARY PAVEMENT MARKING PAINT 4-INCH					
CAT	COUNTY	ROUTE	ROADWAY	649.0402 LF	REMARKS
0010	VARIES	VARIES	UNDISTRIBUTED	40,000	YELLOW CENTERLINE AS DIRECTED BY THE PROJECT ENGINEER
0020	VARIES	VARIES	UNDISTRIBUTED	5,000	
			TOTAL 0010	40,000	
			TOTAL 0020	5,000	

3

TRAFFIC CONTROL (1. 9227-01-26)			
CAT	LOCATION	643.0100 EACH	REMARKS
0010	PROJECT	1	
TOTAL 0010		1	

TEMPORARY RAISED PAVEMENT MARKERS TYPE II					
CAT	COUNTY	ROUTE	ROADWAY	649.2102 EACH	REMARKS
0010	VARIES	VARIES	UNDISTRIBUTED	27,000	UNDISTRIBUTED
0020	VARIES	VARIES	UNDISTRIBUTED	3,000	UNDISTRIBUTED
			TOTAL 0010	27,000	
			TOTAL 0020	3,000	

INLET PROTECTION TYPE C

CAT	COUNTY	ROUTE	ROADWAY	628.7015 EACH	REMARKS
0010	VARIES	VARIES	UNDISTRIBUTED	70	UNDISTRIBUTED
			TOTAL 0010	70	

TRAFFIC CONTROL

				643.0300 DRUMS	643.0420 BARRICADES TYPE III	643.0800 ARROW BOARDS	643.0900 SIGNS	643.1050 SIGNS PCMS	SPV.0045.01 PCMS CELLULAR COMMUNICATIONS
CAT	LOCATION	DURATION DAYS		DAYS	DAYS	DAYS	DAYS	DAYS	DAYS
0020	SEGMENT 11A, IH 94 EB, JACKSON COUNTY	4		700	40	8	120	4	4
0020	SEGMENT 11B, IH 94 WB, JACKSON COUNTY	4		700	40	8	120	4	4
TOTAL 0020				1400	80	16	240	8	8

PAVEMENT MARKING													
MAP REF #	CAT	COUNTY	ROUTE	ROADWAY	LIMITS	646.0103	646.0103	646.0106	646.0106	646.0123	646.0126	SPV.0090.01	SPV.0090.02
						PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT
LF	LF	LF	LF	LF	LF	MARKING	MARKING	MARKING	MARKING	MARKING	MARKING	MARKING	MARKING
						PAINT	PAINT	EPOXY	EPOXY	PAINT	EPOXY	GROOVED	GROOVED
4-INCH (YELLOW)	4-INCH (WHITE)	4-INCH (YELLOW)	4-INCH (WHITE)	8-INCH (WHITE)	8-INCH (WHITE)	WET REFLECTIVE	WET REFLECTIVE	EPOXY 4-INCH (WHITE)	EPOXY 8-INCH (WHITE)	EPOXY 4-INCH (WHITE)	EPOXY 8-INCH (WHITE)	EPOXY 4-INCH (WHITE)	EPOXY 8-INCH (WHITE)
1A	0010	BUFFALO	STH 37	ALMA - EAU CLAIRE	STH 88 TO USH 10 WEST JCT MONDOVI	27,173	27,794	--	--	110	--	--	--
1B	0010	BUFFALO	STH 37	ALMA - EAU CLAIRE	CLOVERLEAF RD MONDOVI TO NCL	5,184	18,632	--	--	370	--	--	--
2	0010	BUFFALO	STH 95	FOUNTAIN CITY - ARCADIA	CTH G TO ECL	74,157	89,189	--	--	170	--	--	--
3	0010	CHIPPEWA	STH 64	CONNORSVILLE - BLOOMER	WCL TO S JCT STH 40	--	--	43,380	99,115	--	735	--	--
4	0010	CHIPPEWA	USH 12	ELK MOUND - EAU CLAIRE	WCL TO SCL	--	--	4,425	12,745	--	400	--	--
5	0010	CLARK	STH 73	THORP - INGRAM	NYE STREET TO NCL	7,886	46,636	--	--	66	--	--	--
6	0010	CLARK	USH 10	NEILLSVILLE - MARSHFIELD	BOON BLVD TO ECL	97,225	160,535	--	--	2,930	--	--	--
7	0010	DUNN	USH 12	ELK MOUND - EAU CLAIRE	580' WEST OF PRINCETON DR ELK MOUND TO ECL	--	--	13,095	23,536	--	--	--	--
8	0010	EAU CLAIRE	USH 12	FALL CREEK - FAIRCHILD	CTH D TO E JCT CTH M	63,433	112,296	--	--	2,550	--	--	--
9	0010	EAU CLAIRE	STH 93	ELEVA - EAU CLAIRE	SCL TO CEDAR ROAD	56,048	86,137	--	--	780	--	--	--
10	0010	EAU CLAIRE	USH 12	ELK MOUND - EAU CLAIRE	NCL TO STH 312	--	--	15,631	20,060	--	550	--	--
11A		JACKSON	IH 94 EB	--	BLACK RIVER TO PERRY CREEK								
	0020				MAINLINE	--	--	26,058	24,028	--	--	--	--
	0020				EB ON/OFF RAMPS	--	--	2,011	4,725	--	490	--	--
	0020				EB ON/OFF RAMPS - ENTRANCE/EXIT GORES - TAPE TO GWRE	--	--	--	--	--	--	--	1,965
	0020				LANELINES - TAPE TO GWRE	--	--	--	--	--	--	6,552	--
11B		JACKSON	IH 94 WB	--	BLACK RIVER TO PERRY CREEK								
	0020				MAINLINE	--	--	26,018	24,134	--	--	--	--
	0020				EB ON/OFF RAMPS	--	--	1,600	3,810	--	70	--	--
	0020				EB ON/OFF RAMPS - ENTRANCE/EXIT GORES - TAPE TO GWRE	--	--	--	--	--	--	--	1,862
	0020				LANELINES - TAPE TO GWRE	--	--	--	--	--	--	6,540	--
SUBTOTAL 0010						331,106	541,219	76,531	155,456				
SUBTOTAL 0020								55,687	56,697				
TOTAL 0010						872,325		231,987	6,976	1,685			
TOTAL 0020								112,384		560	13,092	3,827	

PAVEMENT MARKING (SPECIAL MARKINGS) "CONTINUED ONTO NEXT PAGE"

MAP REFERENCE	BUFFALO 02C								
MAP REFERENCE HWY	37								
MAP RERERENCE SITE ID	USH 10 WEST JCT & EAU CLAIRE ST - MONDOVI								
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	STH 37	EAU CLAIRE St	USH 10	USH 10	TOTAL
647.0566	PAVEMENT MARKING, STOP LINE, EPOXY, 18-INCH	SM-STOPBAR-18-INCH	MAINLINE	L.F.	NB	SB	EB	WB	QUANTITY
					34				
MAP REFERENCE	BUFFALO 07								
MAP REFERENCE HWY	37								
MAP RERERENCE SITE ID	CTH H - MONDOVI								
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	STH 37	STH 37	CTH H		TOTAL
647.0566	PAVEMENT MARKING, STOP LINE, EPOXY, 18-INCH	SM-STOPBAR-18-INCH	MAINLINE	L.F.	NB	SB	EB	WB	QUANTITY
					12				12
COUNTY	CHIPPEWA								
MAP REFERENCE	CHIPPEWA 33								
MAP REFERENCE HWY	64								
MAP RERERENCE SITE ID	CTH SS - NW OF BLOOMER								
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	STH 64	CTH SS	STH 64		TOTAL
647.0110	PAVEMENT MARKING, RAILROAD CROSSINGS, EPOXY	SM-RAILROAD	MAINLINE	EACH	NB	SB	EB	WB	QUANTITY
							1		1
COUNTY	CLARK 02								
MAP REFERENCE	10								
MAP RERERENCE SITE ID	CTH K - GRANTON								
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	CTH K	USH 10	USH 10	TOTAL
647.0156	PAVEMENT MARKING, ARROWS, EPOXY, TYPE 1	SM-ARROW-1	THRU LANE	EACH		SB	EB	WB	QUANTITY
647.0166	PAVEMENT MARKING, ARROWS, EPOXY, TYPE 2	SM-ARROW-2-L	LEFT TURN LANE	EACH			2		2
647.0726	PAVEMENT MARKING, DIAGONAL, EPOXY, 12-INCH	SM-DIAGONAL-YELLOW	MEDIAN ISLAND	L.F.			43	180	223
647.0356	PAVEMENT MARKING, WORDS, EPOXY	SM-ONLY	LEFT AND RIGHT TURN LANES	EACH			4		4
MAP REFERENCE	CLARK 13								
MAP REFERENCE HWY	10								
MAP RERERENCE SITE ID	OEM AVENUE - EAST OF NEILLSVILLE								
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	OEM AVE		USH 10	USH 10	TOTAL
647.0166	PAVEMENT MARKING, ARROWS, EPOXY, TYPE 2	SM-ARROW-2-L	LEFT TURN LANE	EACH	NB	SB	EB	WB	QUANTITY
647.0726	PAVEMENT MARKING, DIAGONAL, EPOXY, 12-INCH	SM-DIAGONAL-YELLOW	MEDIAN ISLAND	L.F.			125	310	435
647.0606	PAVEMENT MARKING, ISLAND NOSE, EPOXY	SM-ISLAND NOSE-YELLOW	MEDIAN ISLAND	EACH			1		1
647.0356	PAVEMENT MARKING, WORDS, EPOXY	SM-ONLY	LEFT TURN LANE	EACH			2		2
COUNTY	EAU CLAIRE								
MAP REFERENCE	EAU CLAIRE 05								
MAP REFERENCE HWY	12								
MAP RERERENCE SITE ID	CTH R - E OF AUGUSTA								
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	CTH R		USH 12	USH 12	TOTAL
647.0726	PAVEMENT MARKING, DIAGONAL, EPOXY, 12-INCH	SM-DIAGONAL-YELLOW	MEDIAN ISLAND	L.F.	NB	SB	EB	WB	QUANTITY
							122	56	178

3

3

PAVEMENT MARKING (SPECIAL MARKINGS)

MAP REFERENCE	EAU CLAIRE 105								
MAP REFERENCE HWY	12								
MAP RERERENCE SITE ID	CTH D - FALL CREEK								
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	CTH D SB	USH 12 EB	USH 12 WB	TOTAL QUANTITY
647.0726	PAVEMENT MARKING, DIAGONAL, EPOXY, 12-INCH	SM-DIAGONAL-YELLOW	MEDIAN ISLAND	L.F.			235	225	460
MAP REFERENCE	EAU CLAIRE 82A								
MAP REFERENCE HWY	12								
MAP RERERENCE SITE ID	STH 312 - TRUAX LA - BY IH 94 W OF EAU CLAIRE					TRUAZ LA	USH 12	STH 312	TOTAL
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	SB	EB	WB	QUANTITY
647.0166	PAVEMENT MARKING, ARROWS, EPOXY, TYPE 2	SM-ARROW-2-L	LEFT TURN LANE	EACH			1		1
647.0356	PAVEMENT MARKING, WORDS, EPOXY	SM-ONLY	LEFT TURN LANE	EACH			1		1
647.0566	PAVEMENT MARKING, STOP LINE, EPOXY, 18-INCH	SM-STOPBAR-18-INCH	MAINLINE	L.F.			48		48
COUNTY	JACKSON								
MAP REFERENCE	JACKSON 04A								
MAP REFERENCE HWY	94								
MAP RERERENCE SITE ID	STH 54 BLACK RIVER FALLS EXIT 116								
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	STH 54 NB	STH 54 SB	IH 94 EB	IH 94 WB	TOTAL QUANTITY
647.0566	PAVEMENT MARKING, STOP LINE, EPOXY, 18-INCH	SM-STOPBAR-18-INCH	OFF RAMP	L.F.			34		34
MAP REFERENCE	JACKSON 04B								
MAP REFERENCE HWY	94								
MAP RERERENCE SITE ID	STH 54 BLACK RIVER FALLS EXIT 116								
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	STH 54 NB	STH 54 SB	IH 94 EB	IH 94 WB	TOTAL QUANTITY
647.0566	PAVEMENT MARKING, STOP LINE, EPOXY, 18-INCH	SM-STOPBAR-18-INCH	OFF RAMP	L.F.				30	30
MAP REFERENCE	JACKSON 32A								
MAP REFERENCE HWY	94								
MAP RERERENCE SITE ID	94EB .3 MILE EAST OF MILE POST 120								
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	SB	IH 94 EB	IH 94 WB	TOTAL QUANTITY
647.0803	PAVEMENT MARKING, AERIAL ENFORCEMENT BARS, EPOXY, 24 INCH	SM-AERIAL BARS	SHOULDER	L.F.			60		60
MAP REFERENCE	JACKSON 32B								
MAP REFERENCE HWY	94								
MAP RERERENCE SITE ID	94WB .7 MILE WEST OF MILE POST 121								
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	SB	IH 94 EB	IH 94 WB	TOTAL QUANTITY
647.0803	PAVEMENT MARKING, AERIAL ENFORCEMENT BARS, EPOXY, 24 INCH	SM-AERIAL BARS	SHOULDER	L.F.				60	60

PAVEMENT MARKING SUMMARY (SPECIAL MARKINGS)

CAT	ITEM NUMBER	BID ITEM DESCRIPTION	UNIT	TOTALS
0010	647.0110	PAVEMENT MARKING, RAILROAD CROSSING, EPOXY	EACH	1
0010	647.0156	PAVEMENT MARKING, ARROW, EPOXY, TYPE 1	EACH	2
0010	647.0166	PAVEMENT MARKING, ARROW, EPOXY, TYPE 2	EACH	5
0010	647.0356	PAVEMENT MARKING, WORDS, EPOXY	EACH	7
0010	647.0566	PAVEMENT MARKING, STOP LINE, EPOXY, 18-INCH	L.F.	60
0020	647.0566	PAVEMENT MARKING, STOP LINE, EPOXY, 18-INCH	L.F.	64
0010	647.0606	PAVEMENT MARKING, ISLAND NOSE, EPOXY	EACH	1
0010	647.0726	PAVEMENT MARKING, DIAGONAL, EPOXY, 12-INCH	L.F.	1,296
0020	647.0803	PAVEMENT MARKING, AERIAL ENFORCEMENT BARS, EPOXY, 24-INCH	L.F.	120

3

1. SEALING ASPHALTIC PAVEMENT CRACKS, STH 37 ( STH 88 - NCL)					
CAT	ROUTE	ROADWAY LOCATION	LIMITS	SPV.0125.01 MI	REMARKS
0010	STH 37	ALMA - MONDOVI	STH 88 - USH 10	7.00	BUFFALO CO.
0010	STH 37	MONDOVI - EAU CLAIRE	CLOVERLEAF RD - NCL	3.60	BUFFALO CO.
TOTAL 0010				10.60	

3. SEALING ASPHALTIC PAVEMENT CRACKS, STH 64 (WCL - SOUTH JCT STH 40)					
CAT	ROUTE	ROADWAY LOCATION	LIMITS	SPV.0125.03 MI	REMARKS
0010	STH 64	CONNORSVILLE - BLOOMER	WCL - S. JCT STH 40	19.14	CHIPPEWA CO.
TOTAL 0010				19.14	

5. SEALING ASPHALTIC PAVEMENT CRACKS, STH 73 (NYE STREET - NCL)					
CAT	ROUTE	ROADWAY LOCATION	LIMITS	SPV.0125.05 MI	REMARKS
0010	STH 73	THORP - INGRAM	NYE STREET - NCL	9	CLARK CO.
TOTAL 0010				9.00	

7. SEALING ASPHALTIC PAVEMENT CRACKS, USH 12 (PRINCETON DRIVE - ECL)					
CAT	ROUTE	ROADWAY LOCATION	LIMITS	SPV.0125.07 MI	REMARKS
0010	USH 12	MENOMONIE - EAU CLAIRE	PRINCETON DRIVE - ECL	5.12	DUNN CO.
TOTAL 0010				5.12	

9. SEALING ASPHALTIC PAVEMENT CRACKS, STH 93 (SCL - CEDAR ROAD)					
CAT	ROUTE	ROADWAY LOCATION	LIMITS	SPV.0125.09 MI	REMARKS
0010	STH 93	ELEVA - EAU CLAIRE	SCL - CEDAR ROAD	16.8	EAU CLAIRE CO.
TOTAL 0010				16.80	

11. SEALING ASPHALTIC PAVEMENT CRACKS, IH 94 (BLACK RIVER - PERRY CREEK)					
CAT	ROUTE	ROADWAY LOCATION	LIMITS	SPV.0125.11 MI	REMARKS
0020	IH 94	BLACK RIVER FALLS - TOMAH	BLACK RIVER - PERRY CREEK	18.20	JACKSON CO.
TOTAL 0020				18.20	

2. SEALING ASPHALTIC PAVEMENT CRACKS, STH 95 (CTH G - ECL)					
CAT	ROUTE	ROADWAY LOCATION	LIMITS	SPV.0125.02 MI	REMARKS
0010	STH 95	FOUNTAIN CITY - ARCADIA	CTH G - ECL	17.02	BUFFALO CO.
TOTAL 0010				17.02	

4. SEALING ASPHALTIC PAVEMENT CRACKS, USH 12 (WCL - SCL)					
CAT	ROUTE	ROADWAY LOCATION	LIMITS	SPV.0125.04 MI	REMARKS
0010	USH 12	MENOMONIE - EAU CLAIRE	WCL - SCL	2.48	CHIPPEWA CO.
TOTAL 0010				2.48	

6. SEALING ASPHALTIC PAVEMENT CRACKS, USH 10 (BOON BLVD - ECL)					
CAT	ROUTE	ROADWAY LOCATION	LIMITS	SPV.0125.06 MI	REMARKS
0010	USH 10	NEILSVILLE - MARSHFIELD	BOON BLVD - ECL	31.5	CLARK CO.
TOTAL 0010				31.50	

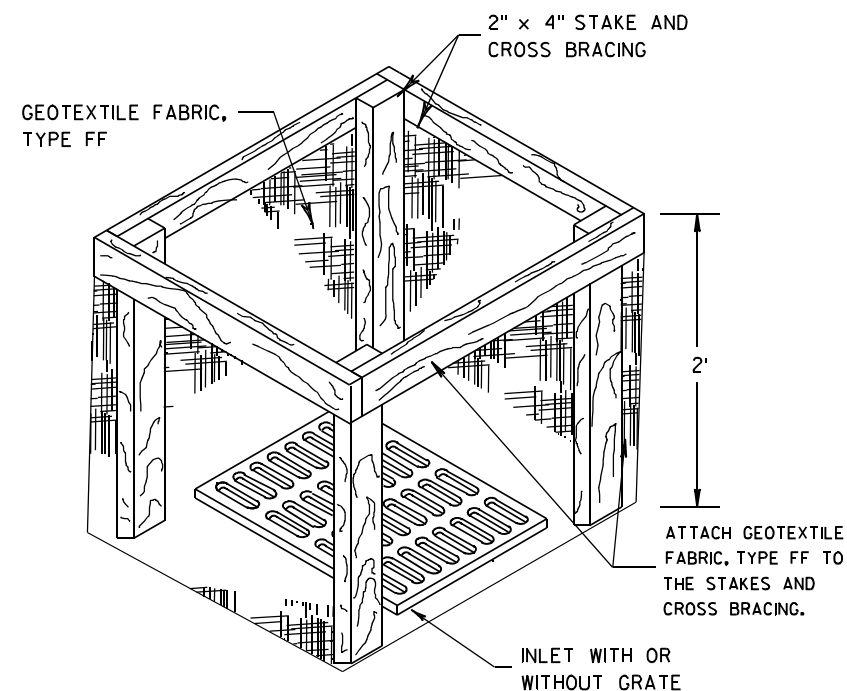
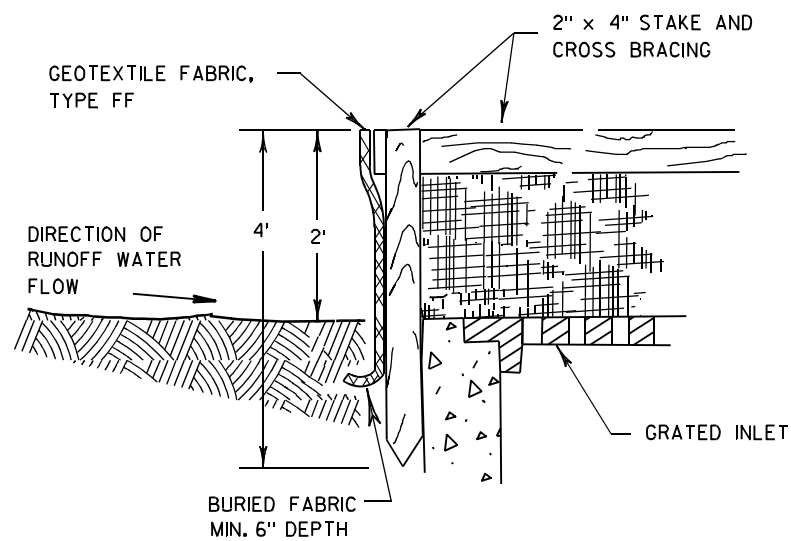
8. SEALING ASPHALTIC PAVEMENT CRACKS, USH 12 (CTH D - E JCT CTH M)					
CAT	ROUTE	ROADWAY LOCATION	LIMITS	SPV.0125.08 MI	REMARKS
0010	USH 12	EAU CLAIRE - FAIRCHILD	CTH D - E JCT CTH M	24.7	EAU CLAIRE CO.
TOTAL 0010				24.70	

10. SEALING ASPHALTIC PAVEMENT CRACKS, USH 12 (NCL - STH 312)					
CAT	ROUTE	ROADWAY LOCATION	LIMITS	SPV.0125.10 MI	REMARKS
0010	USH 12	MENOMONIE - EAU CLAIRE	NCL - STH 312	8.20	EAU CLAIRE CO
0010	USH 12	MENOMONIE - EAU CLAIRE	NCL - STH 312	8.20	EAU CLAIRE CO
TOTAL 0010				8.20	

PROJECT NO:9227-01-26	HWY:NORTHWEST REGION	COUNTY:NORTHWEST REGION	MISCELLANEOUS QUANTITIES	SHEET	E
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Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
15C07-13B	PAVEMENT MARKING WORDS
15C07-13C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C09-10A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C14-01	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
15C18-03	MEDIAN ISLAND MARKING
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-04C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C34-01	STANDARD APPLICATION FOR TEMPORARY RAISED PAVEMENT MARKER, TYPE 2
15D12-06B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D15-02	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE



**INLET PROTECTION, TYPE A**

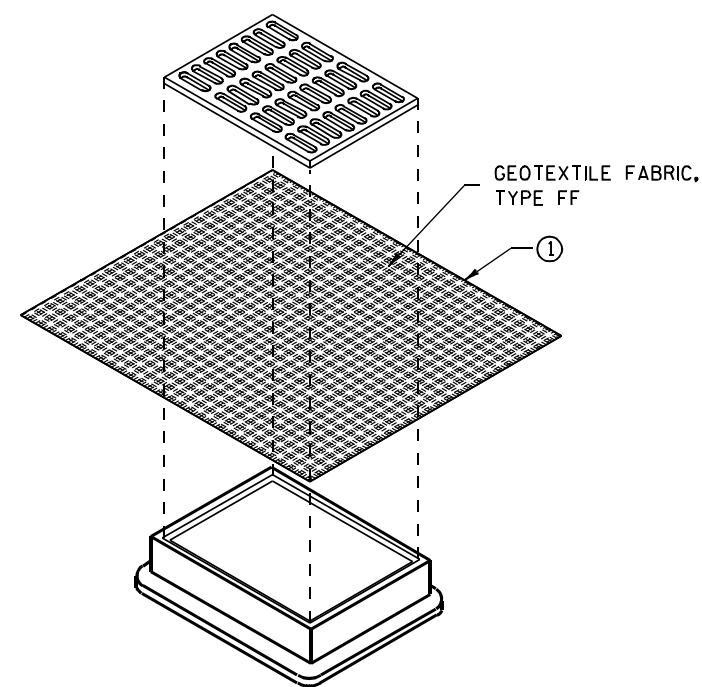
**GENERAL NOTES**

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

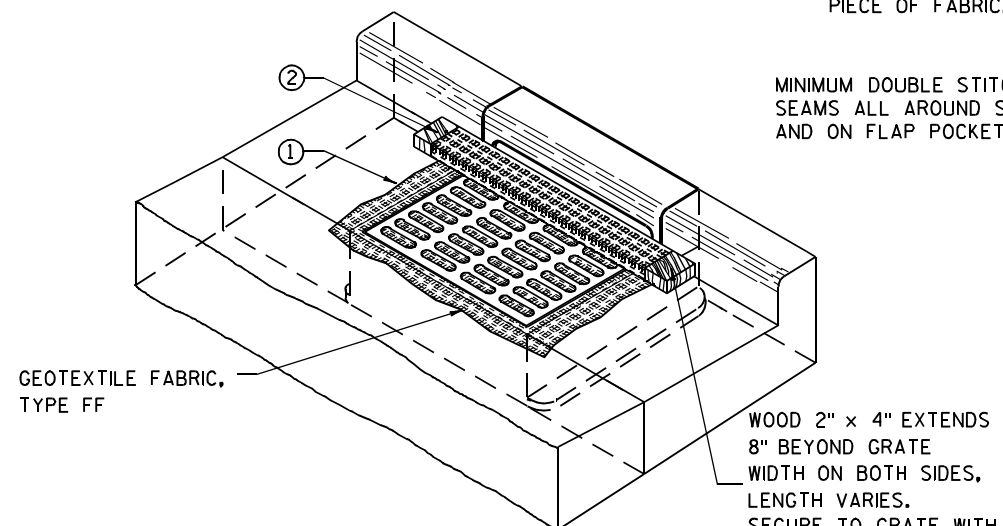
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B  
(WITHOUT CURB BOX)**

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



**INLET PROTECTION, TYPE C (WITH CURB BOX)**

**INSTALLATION NOTES**

**TYPE B & C**

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

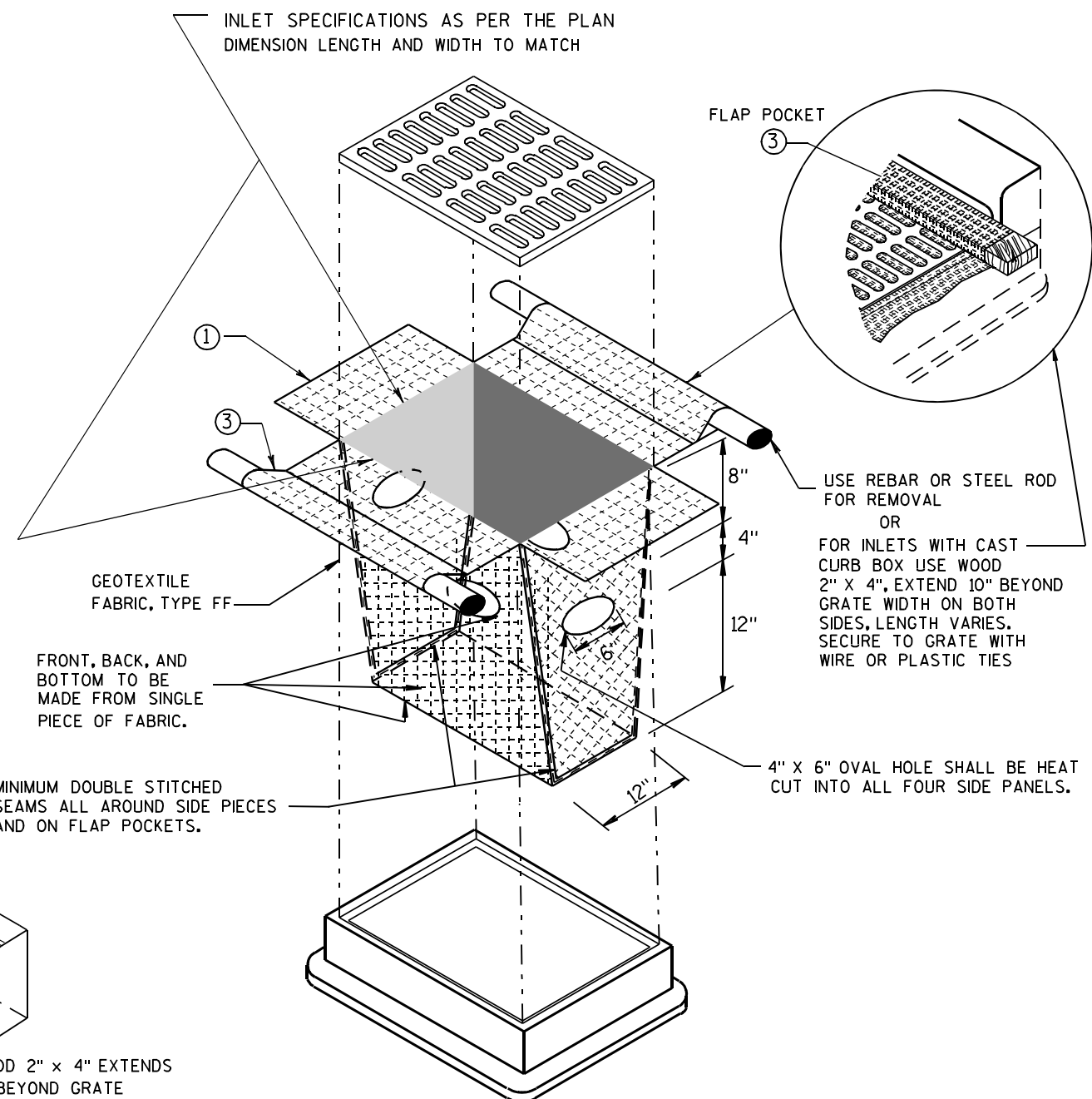
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

**TYPE D**

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



**INLET PROTECTION, TYPE D**

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

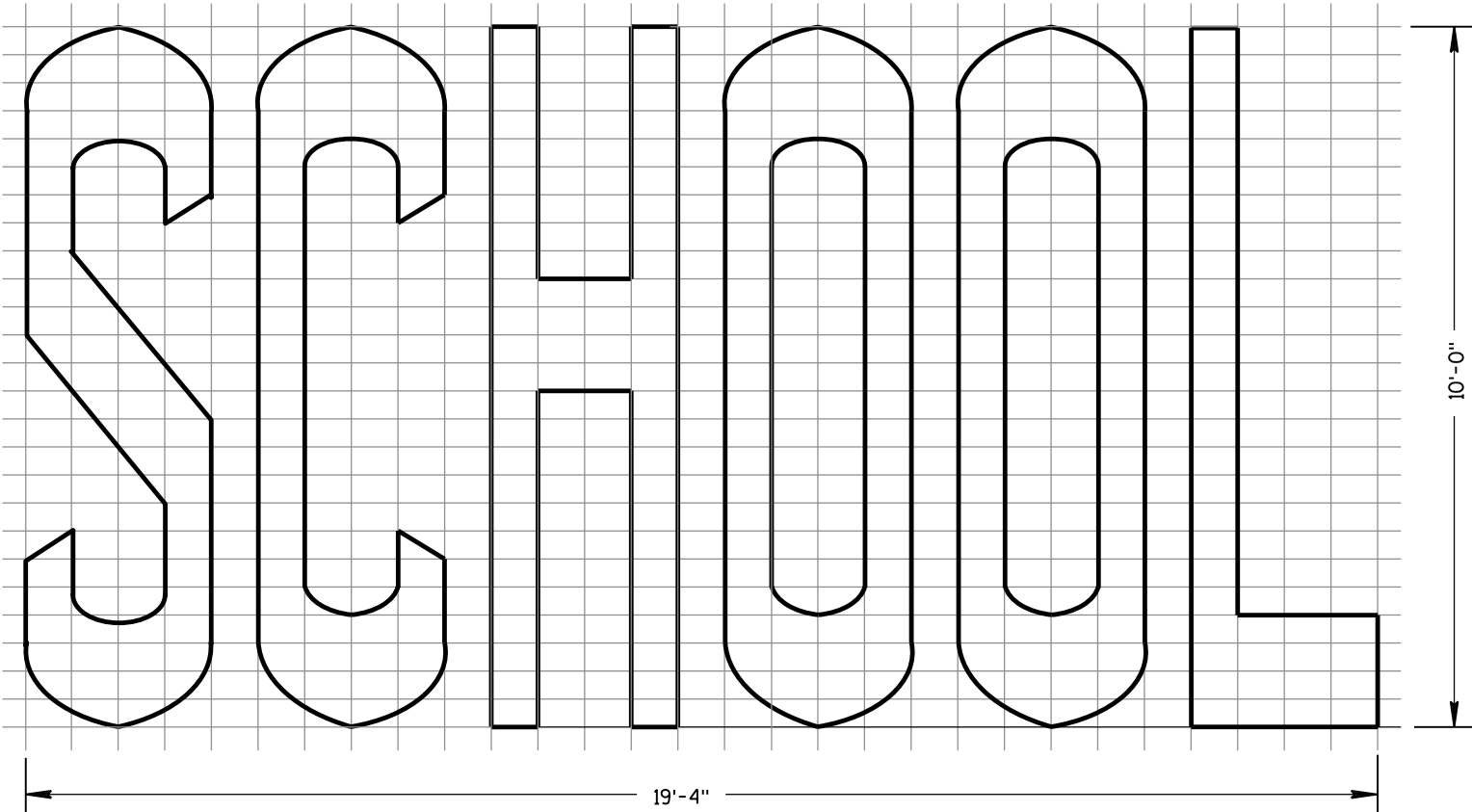
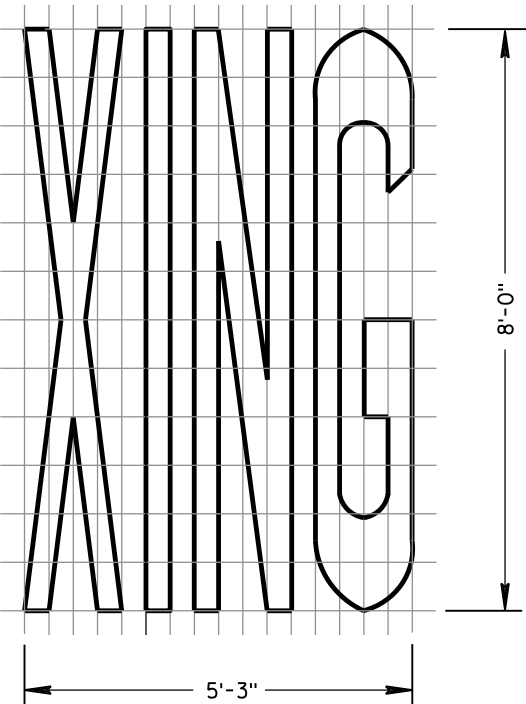
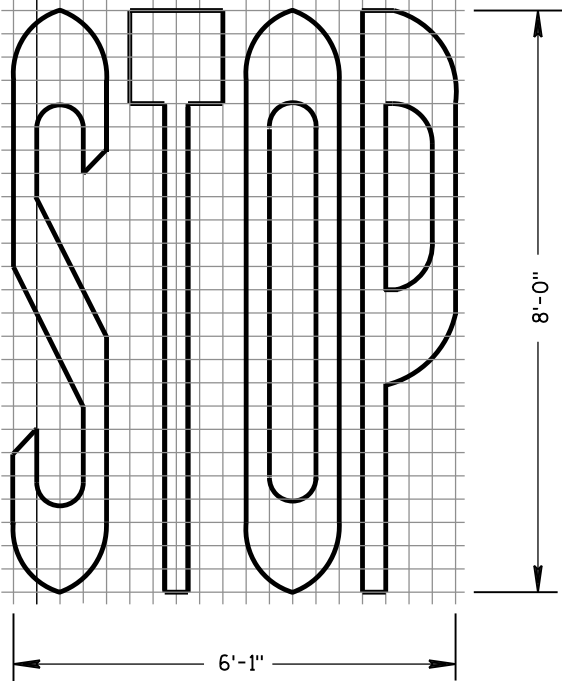
**INLET PROTECTION  
TYPE A, B, C, AND D**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

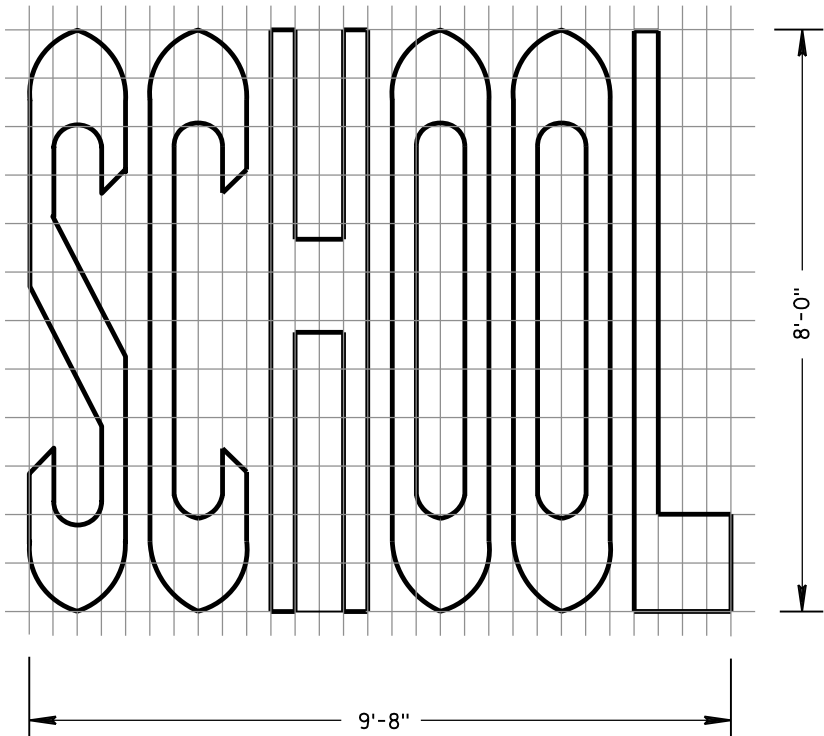
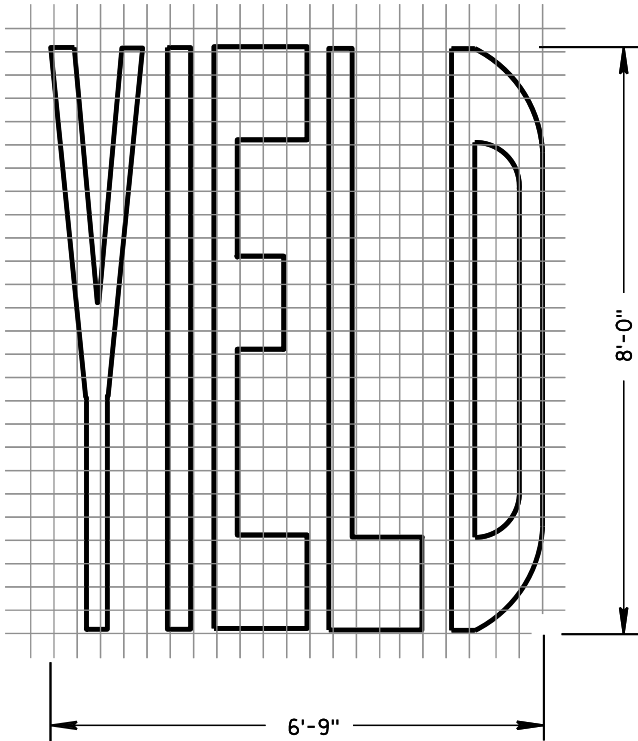
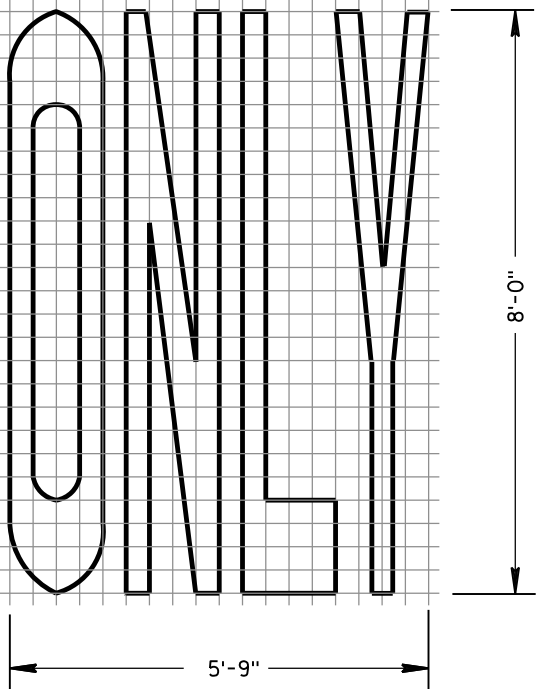
APPROVED  
10/16/02 /S/ Beth Cannestra  
DATE  
FHWA CHIEF ROADWAY DEVELOPMENT ENGINEER

GENERAL NOTES

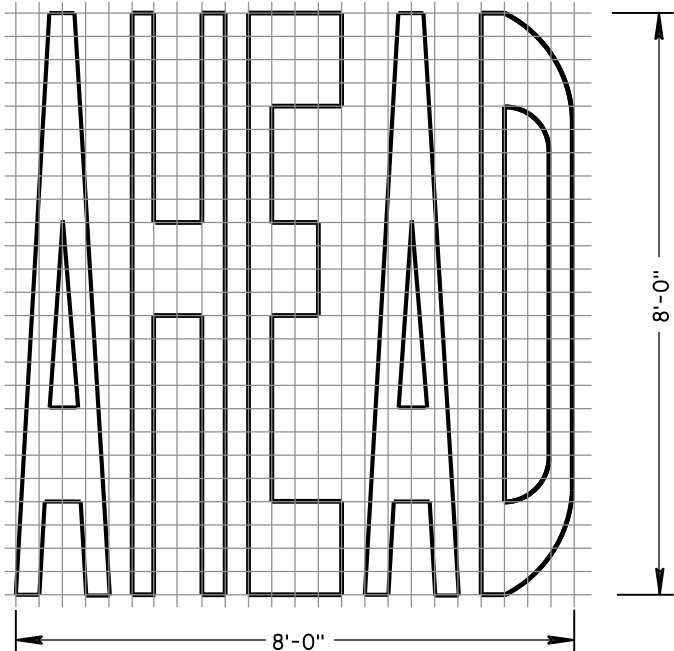
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



TWO-LANE



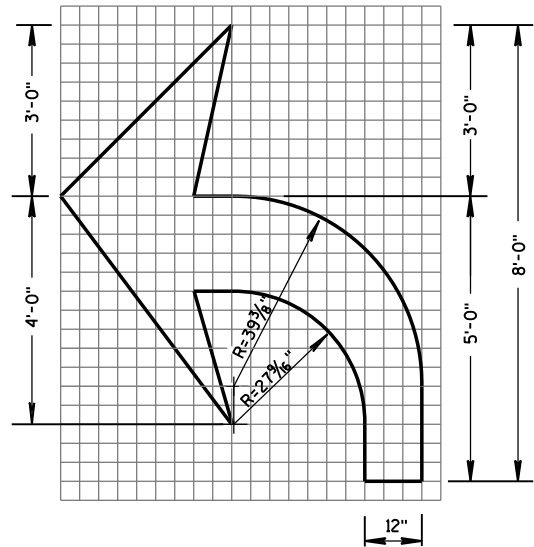
SINGLE-LANE



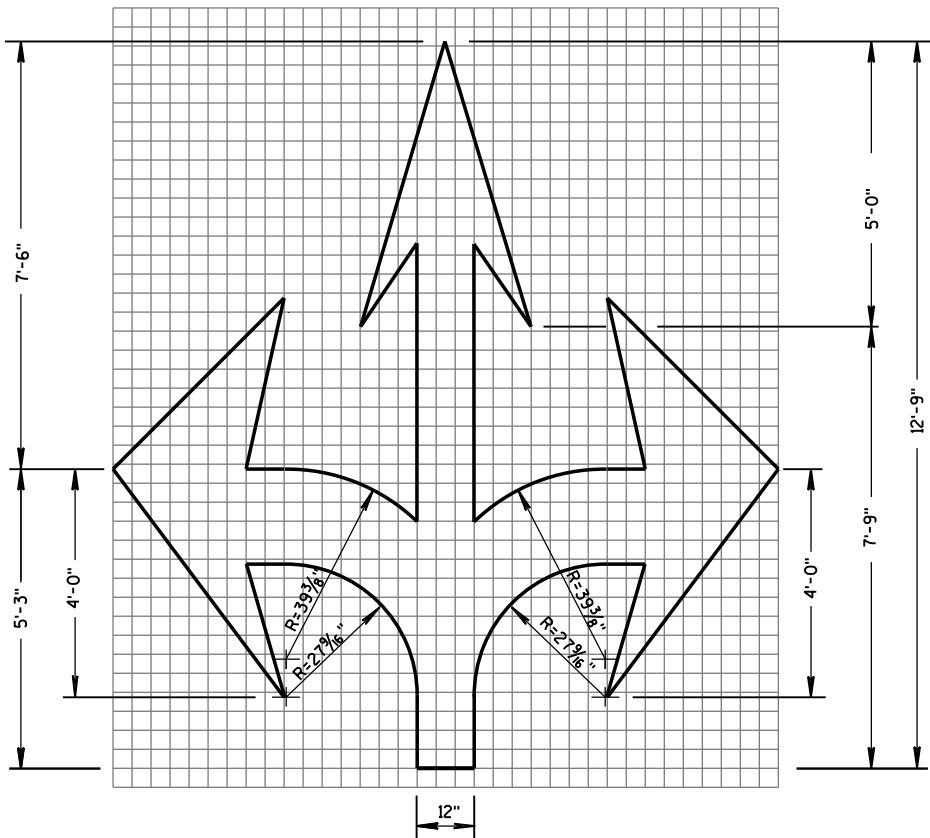
PAVEMENT MARKING WORDS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

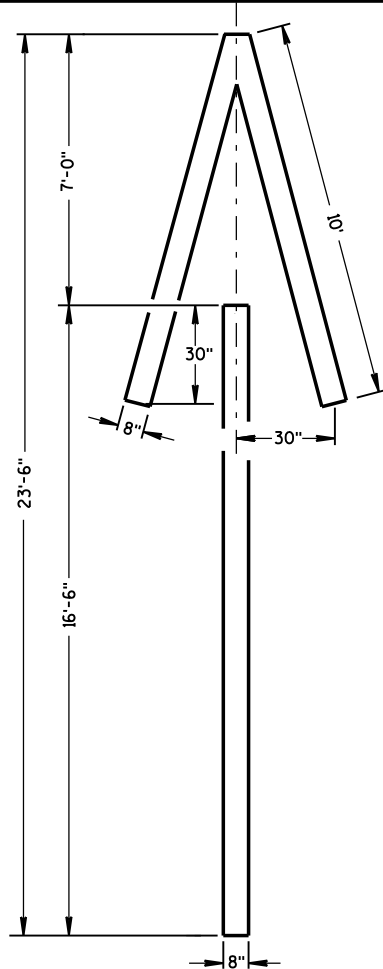
APPROVED  
4-18-16 DATE /S/ Matthew R. Rauch  
STATE SIGNING AND MARKING ENGINEER  
FHWA



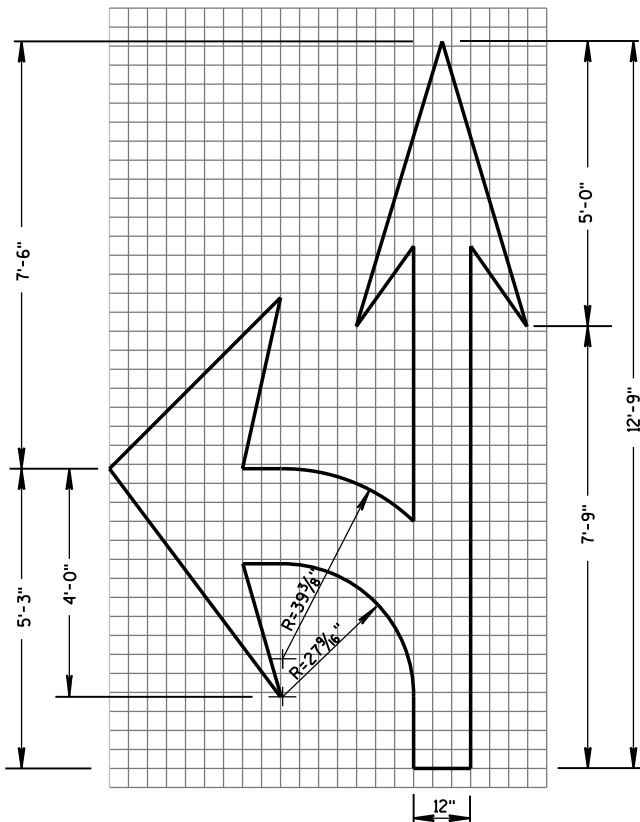
TYPE 2



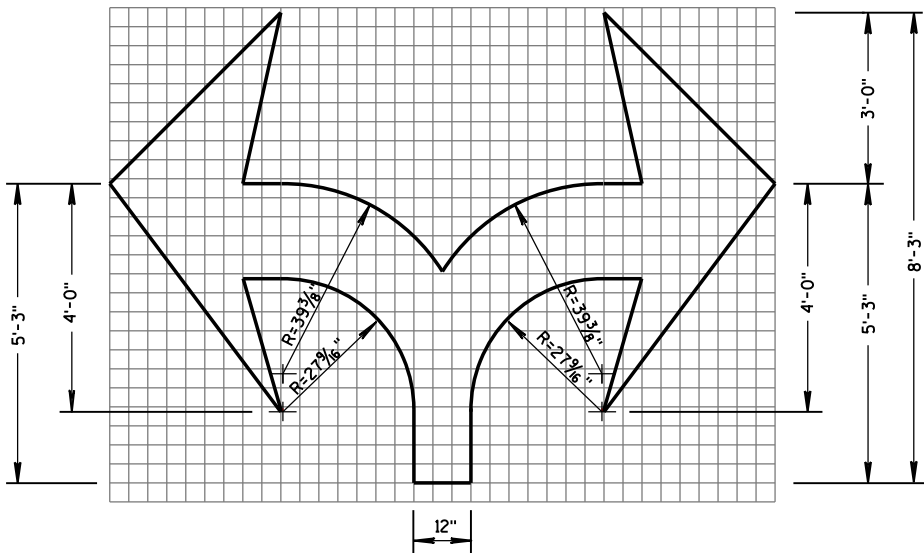
TYPE 6



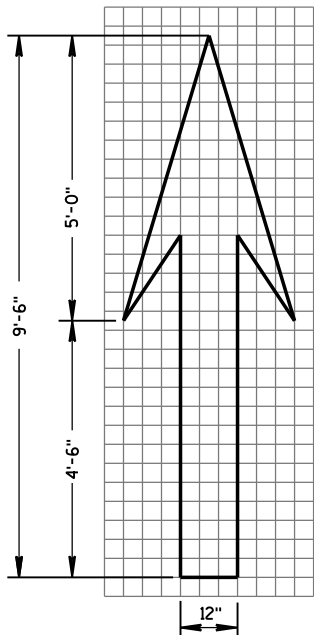
TYPE 4



TYPE 3



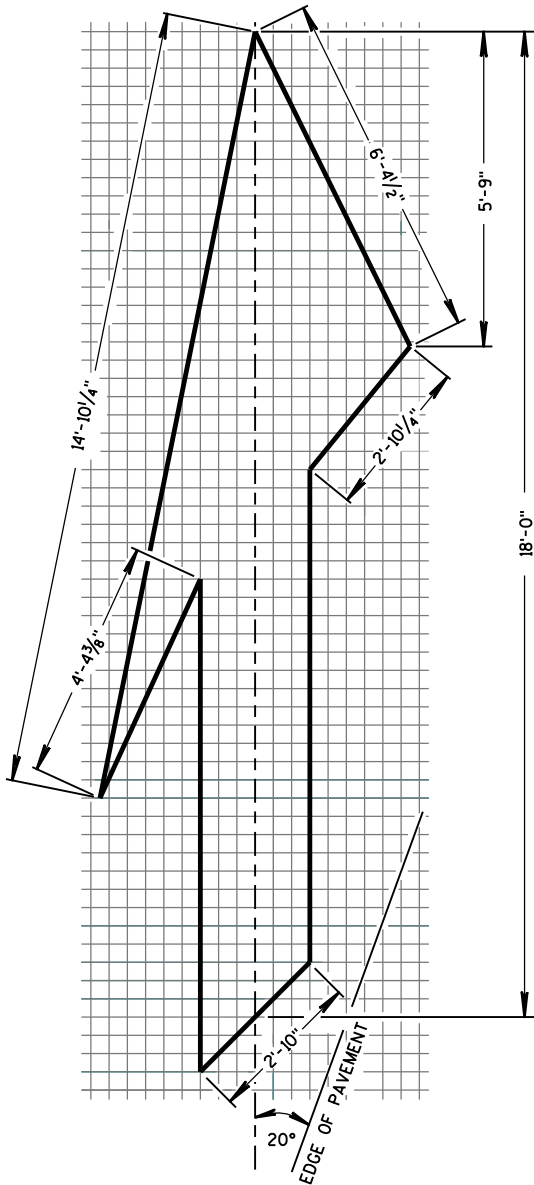
TYPE 7



TYPE 1

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.

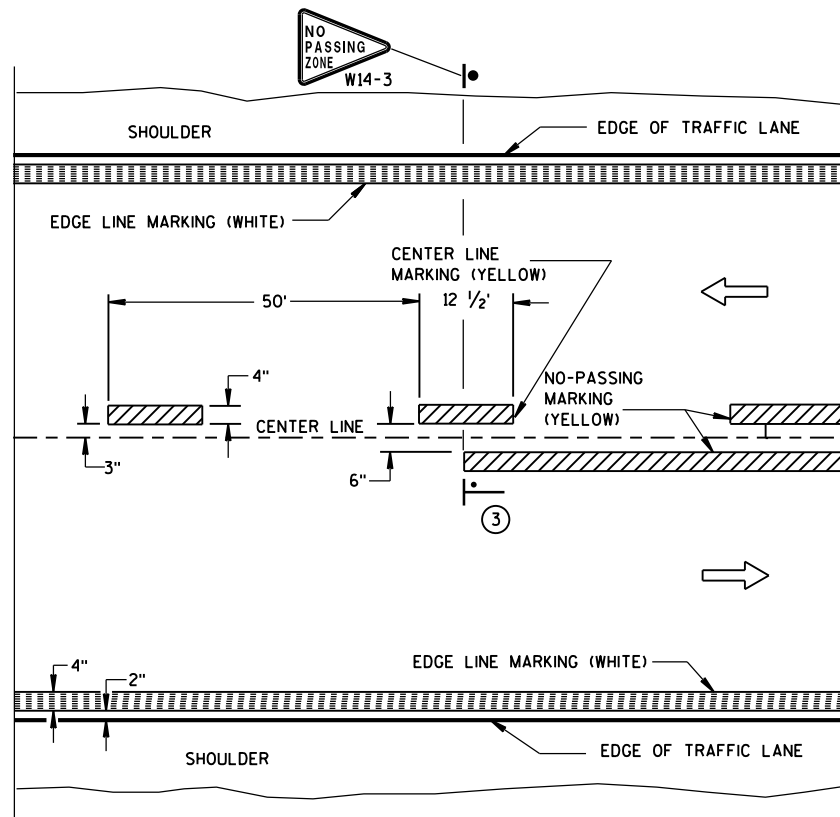


TYPE 5 LANE DROP ARROW

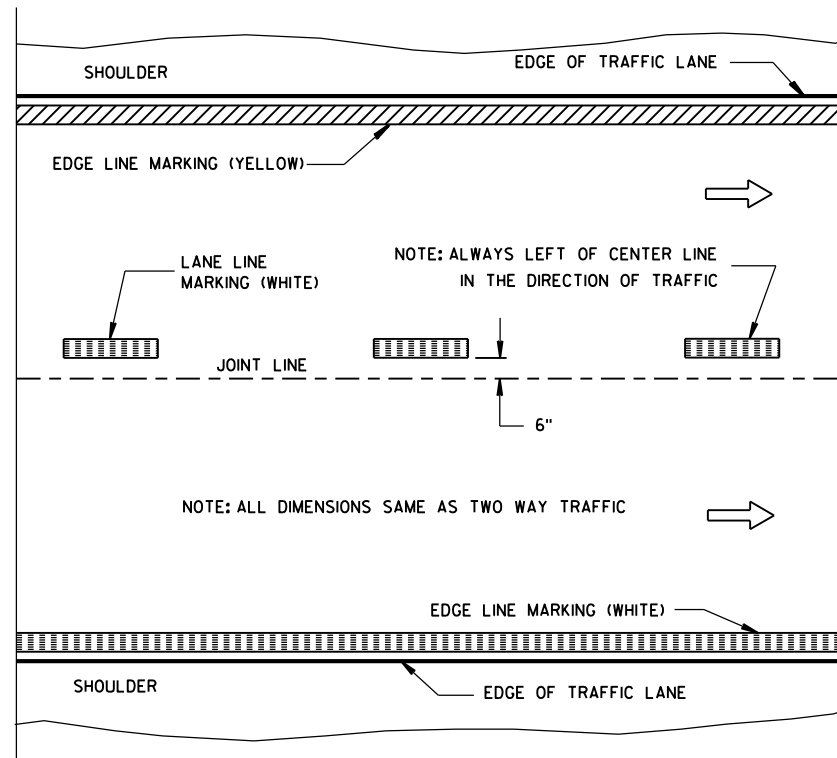
PAVEMENT MARKING ARROWS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
4-18-16 /S/ Matthew R. Rauch  
DATE STATE SIGNING AND MARKING ENGINEER  
FHWA

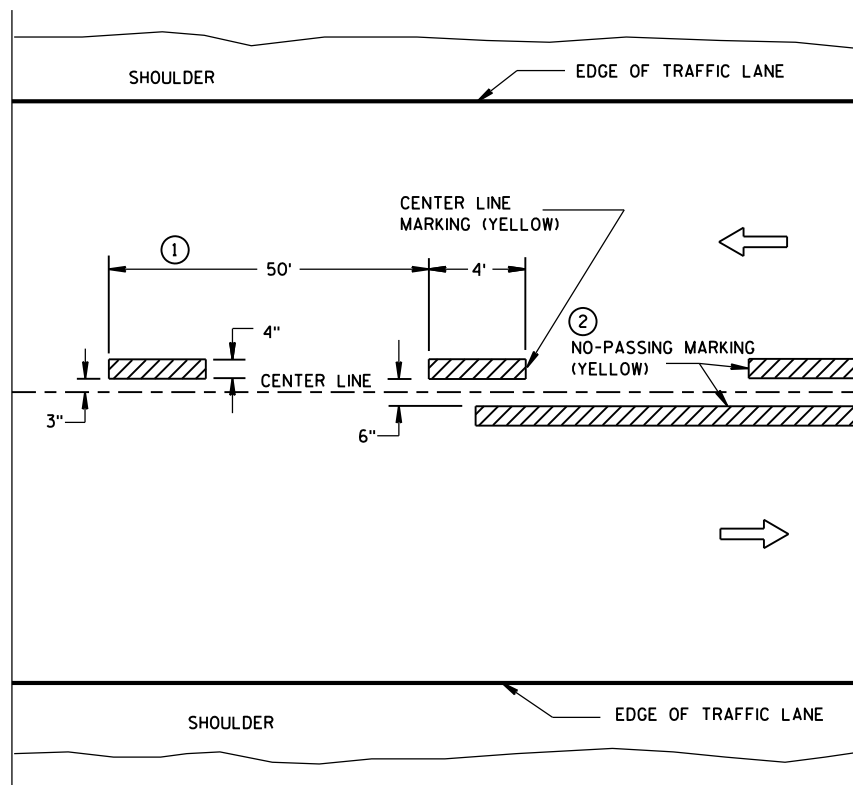


TWO WAY TRAFFIC

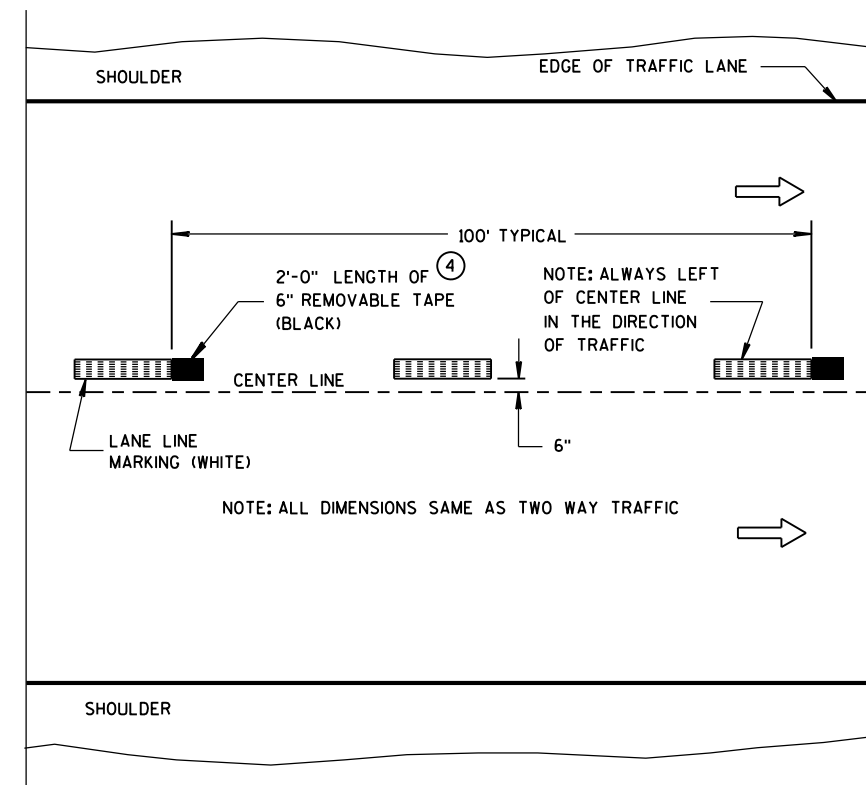


ONE WAY TRAFFIC

## PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

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

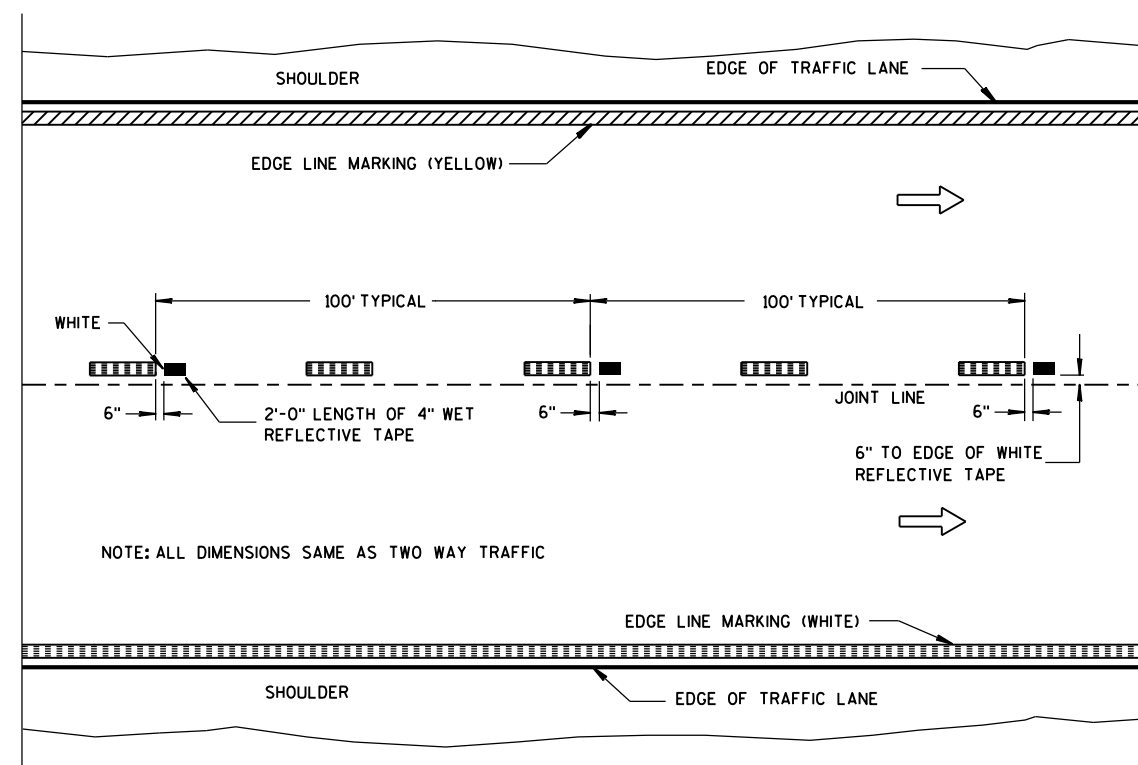
## GENERAL NOTES

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

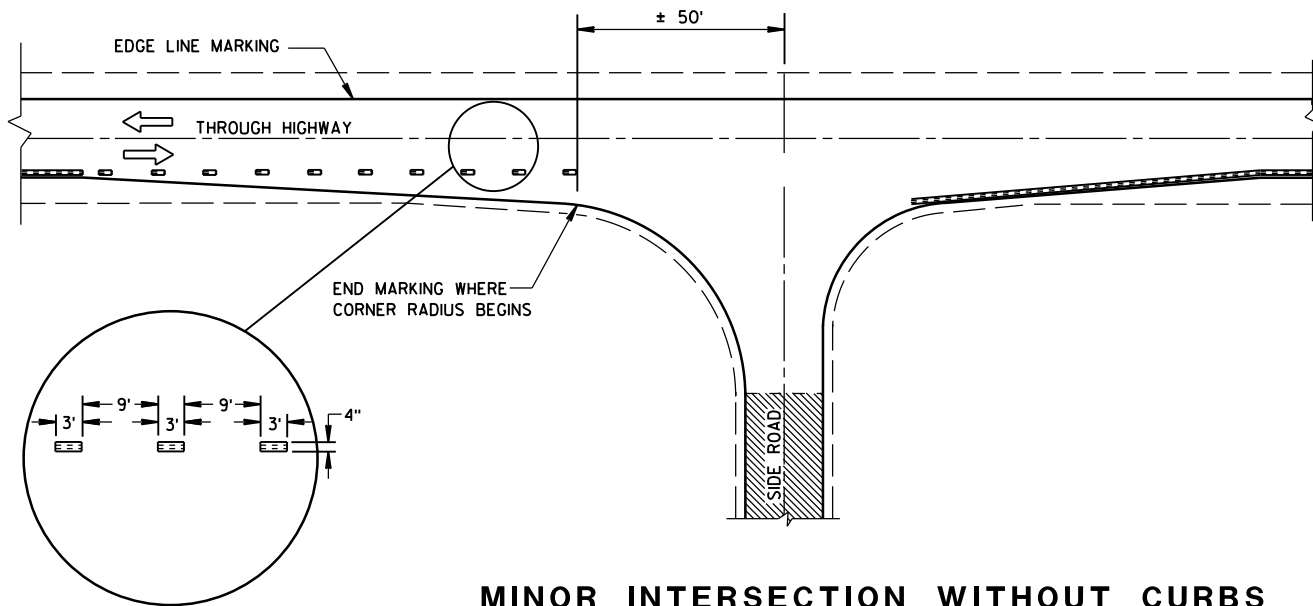
- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING  
(MAINLINE)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

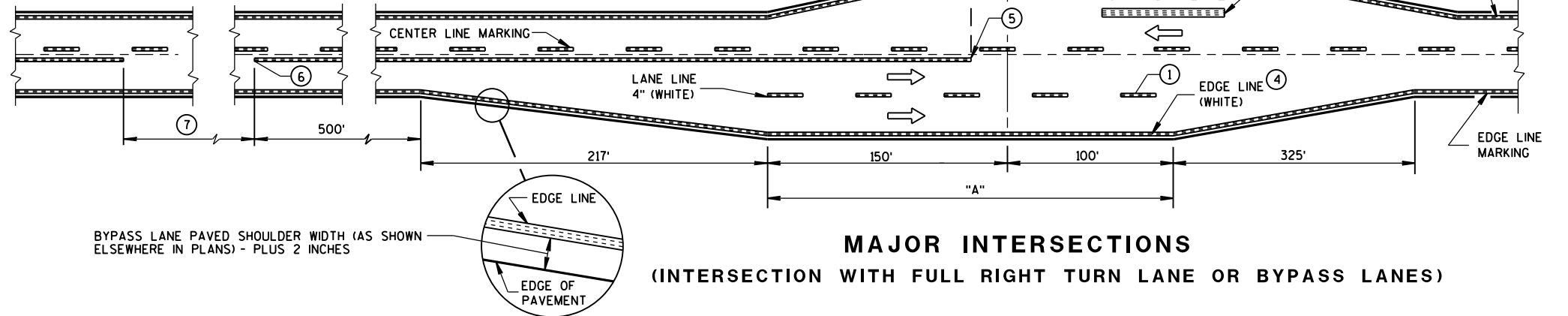
APPROVED  
5-13-2013  
DATE  
FHWA

/S/ Travis Feltes  
STATE TRAFFIC ENGINEER



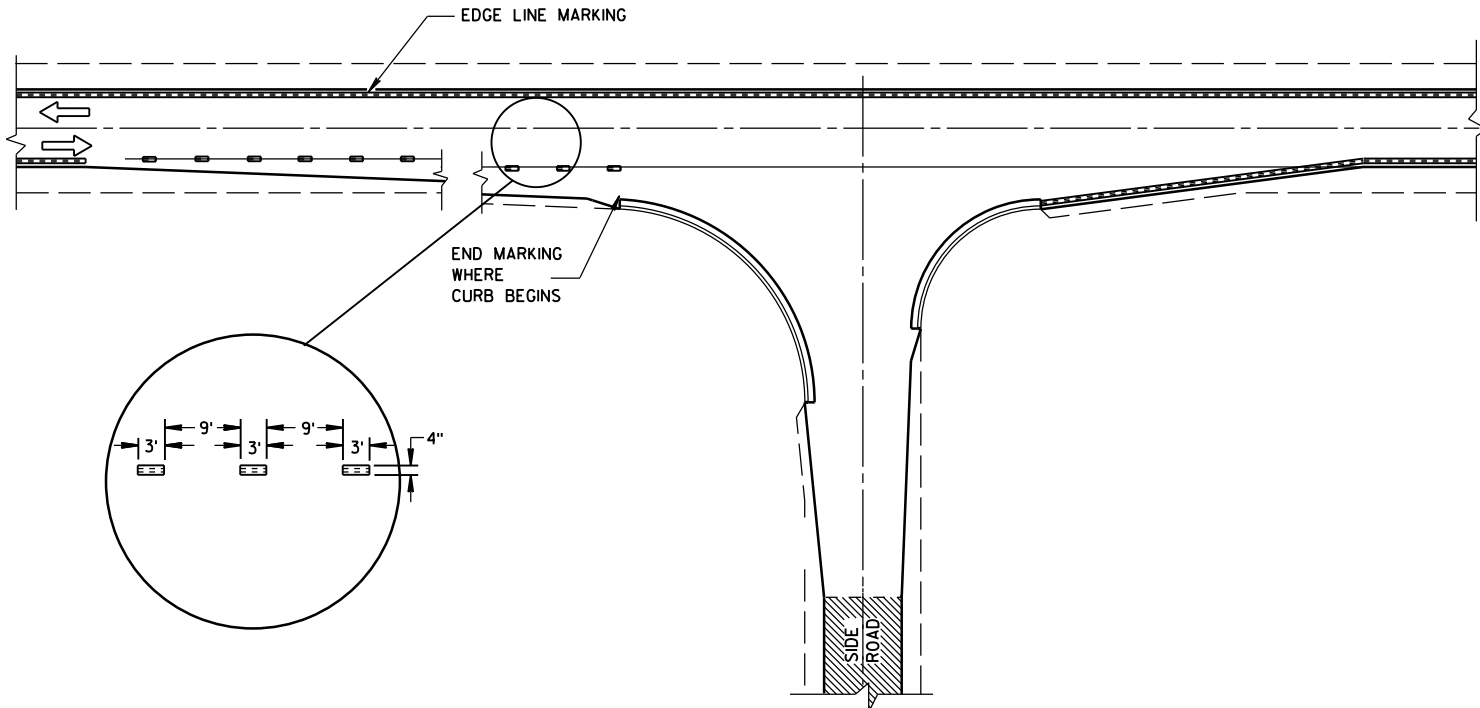
MINOR INTERSECTION WITHOUT CURBS

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

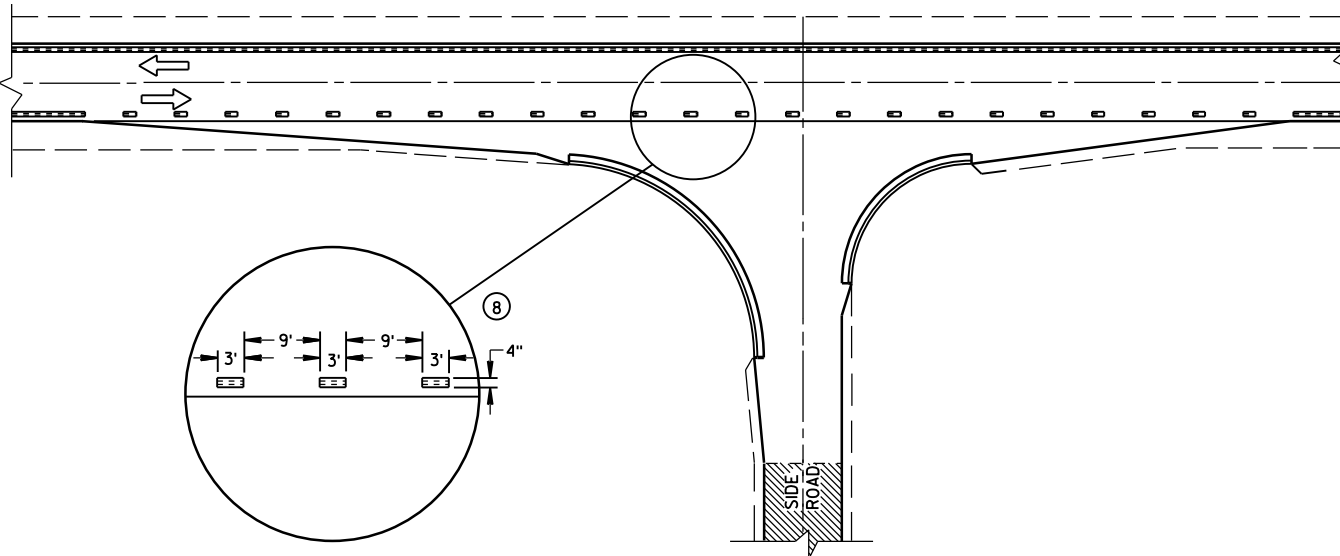


MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



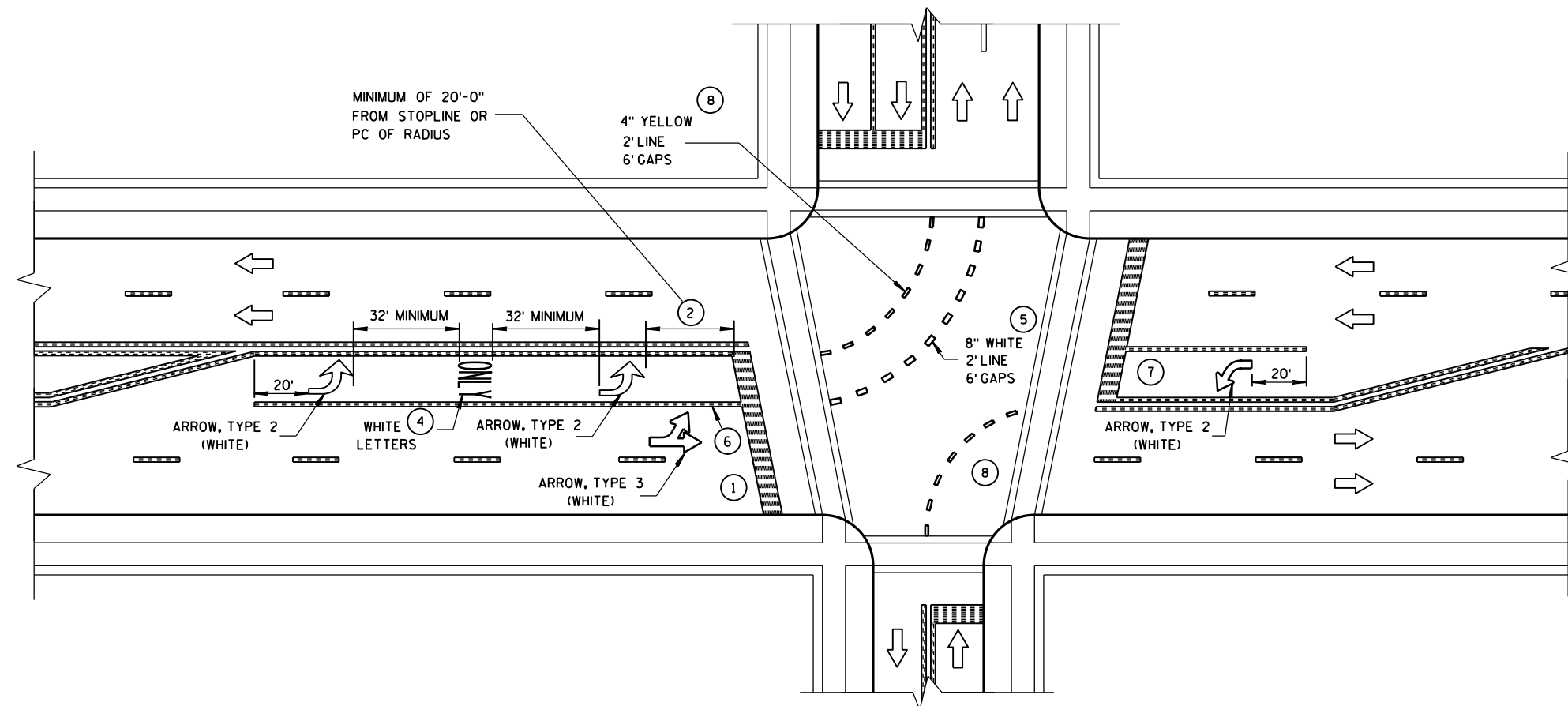
MINOR INTERSECTION WITH CURBS  
(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS  
(FOR SPECIAL CONDITIONS AS SPECIFIED)

GENERAL NOTES

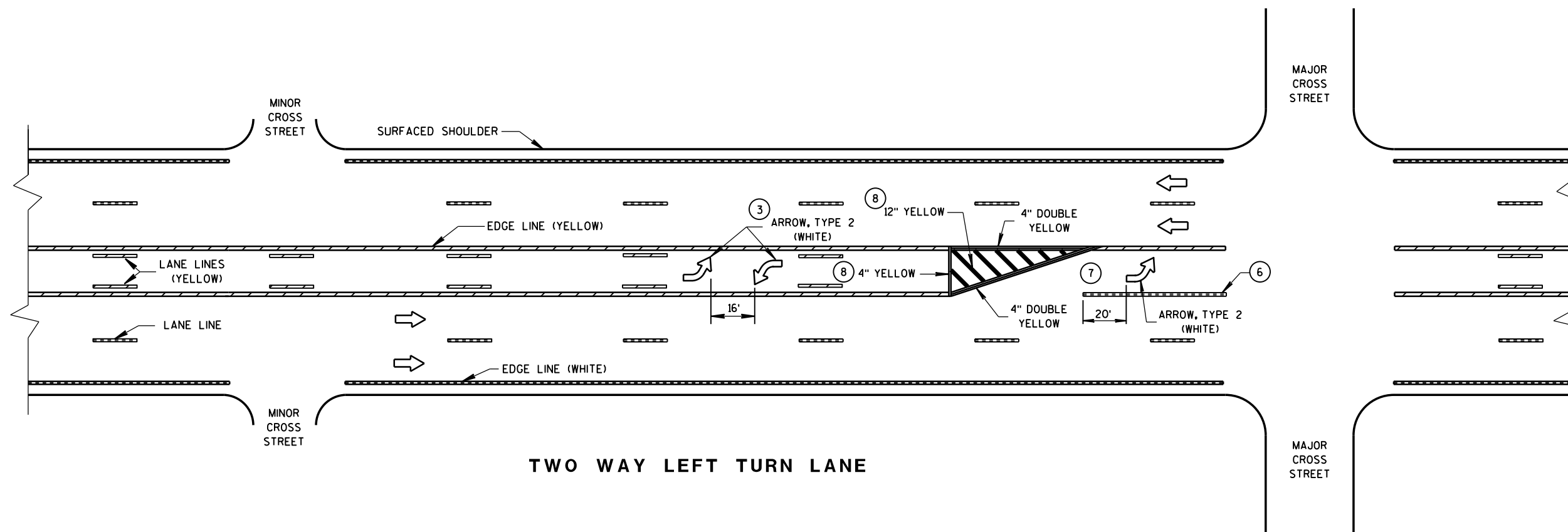
- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.
- 1 WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
  - 2 WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
  - 3 ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN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



### GENERAL NOTES

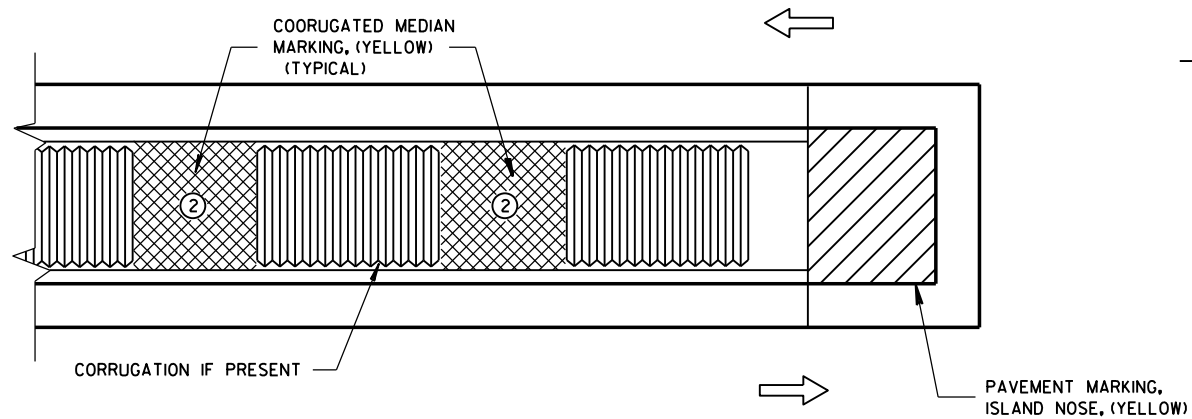
- ① STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DISTANCE MAY BE ADJUSTED TO ACCOMMODATE SHORT LEFT TURN LANES, AS APPROVED BY THE ENGINEER.
- ③ A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ④ ADD EXTRA SETS OF ONE ARROW AND ONE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

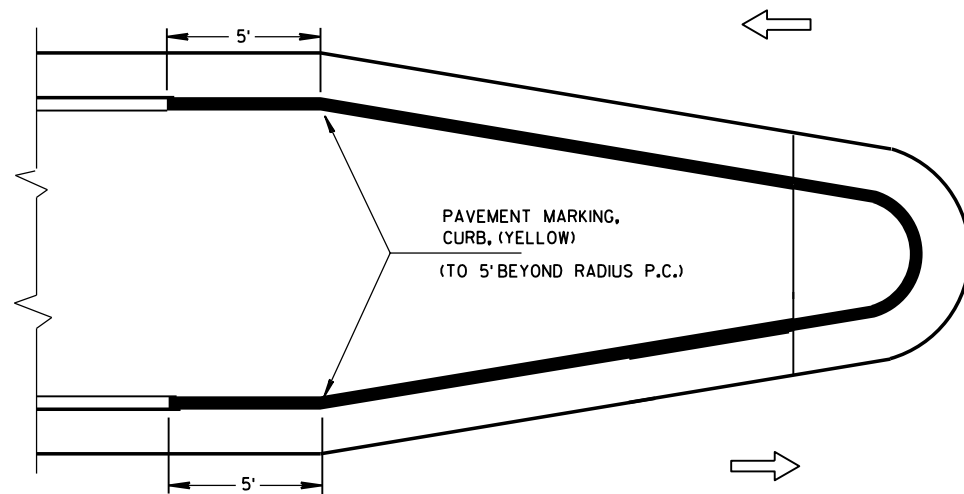


PAVEMENT MARKING  
(LEFT TURN LANE)

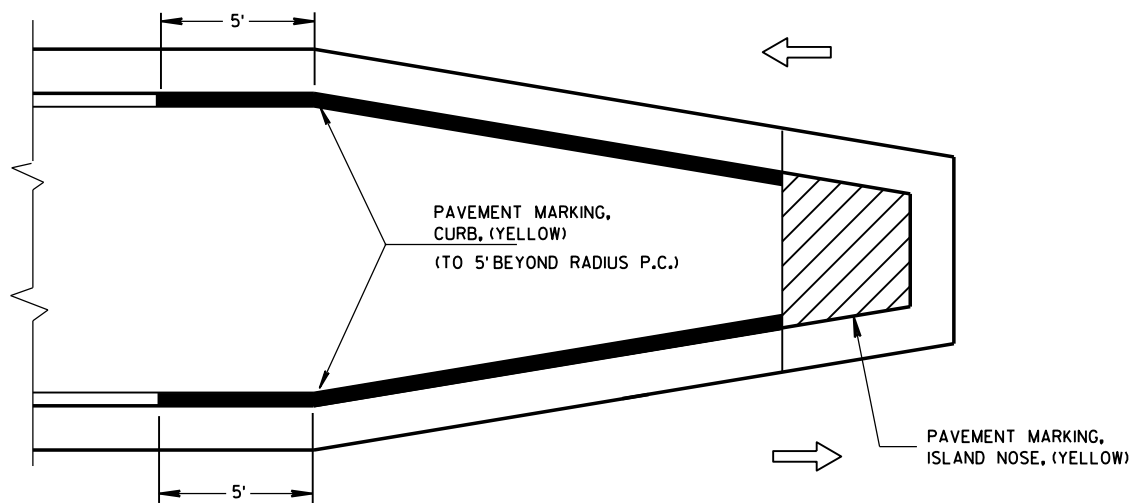
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

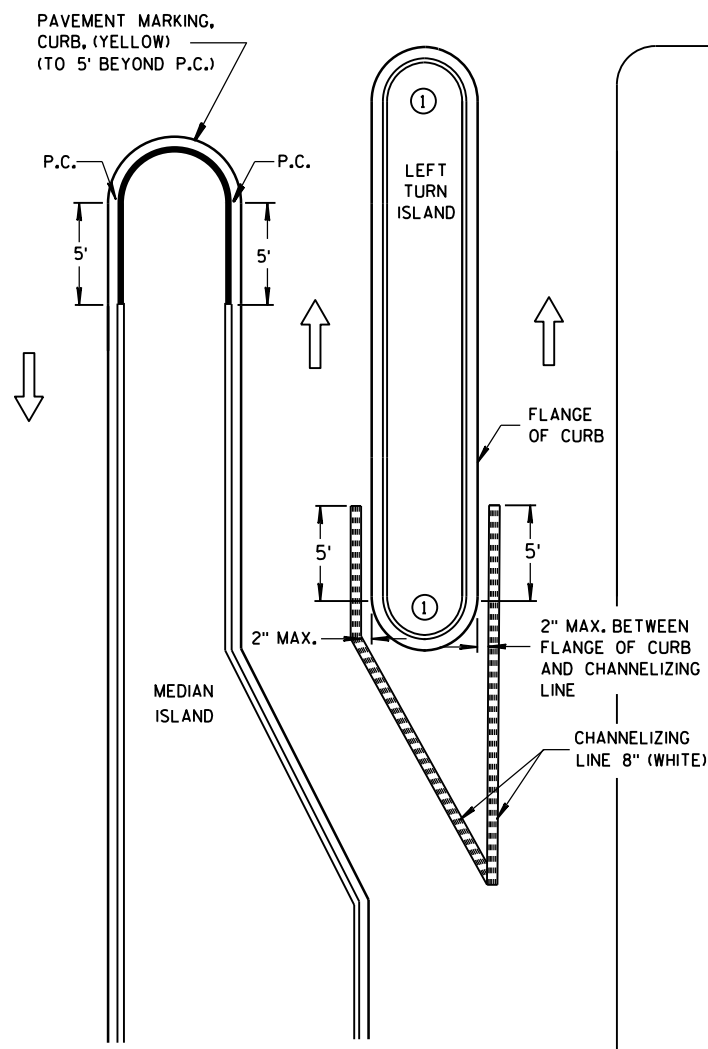


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

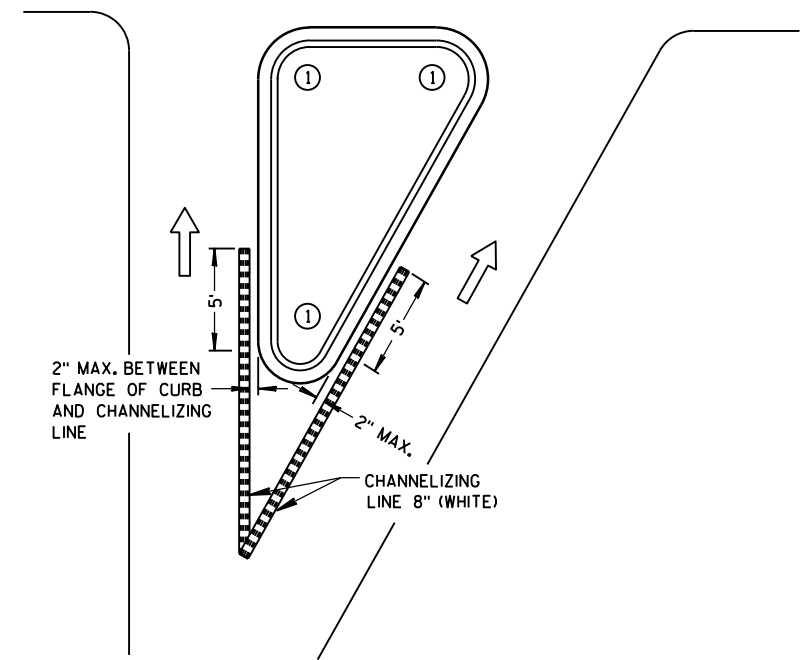
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



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



LEGEND

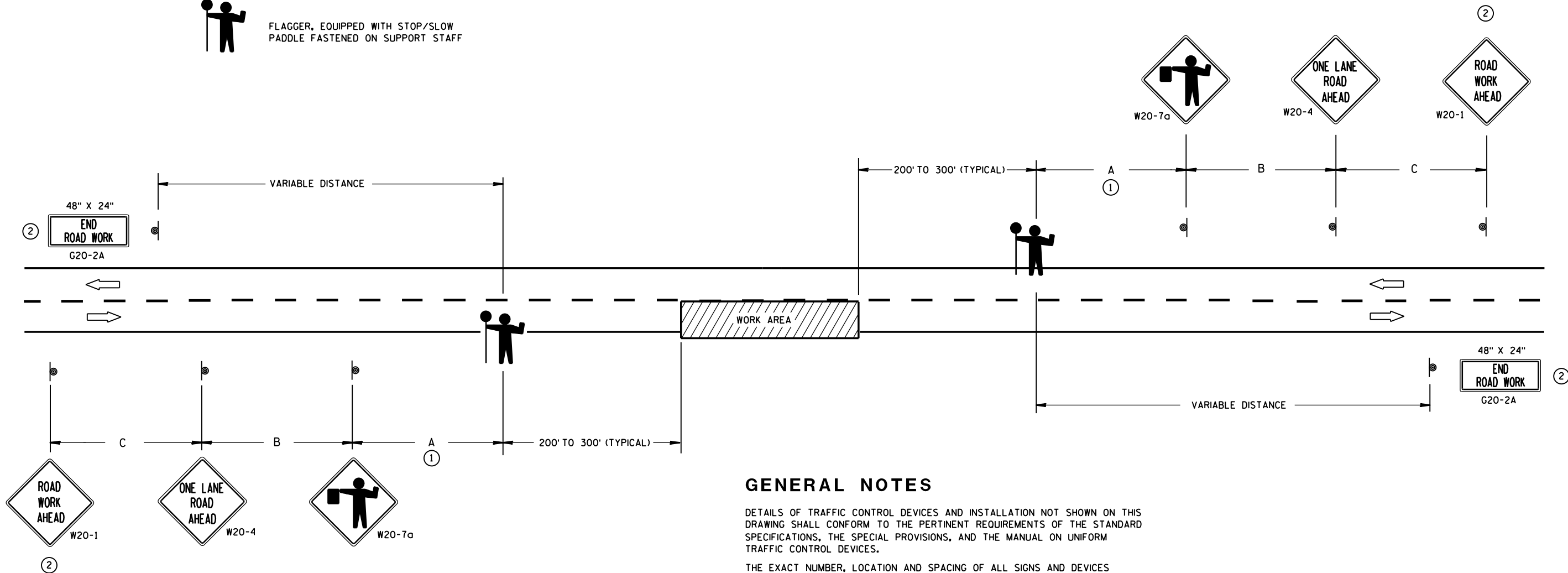
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

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.

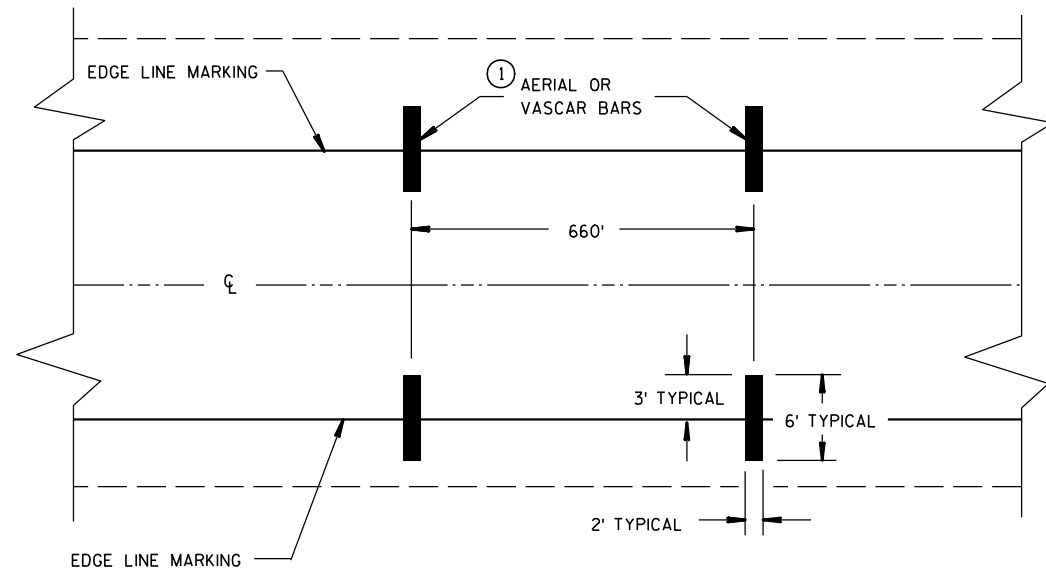
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- 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.

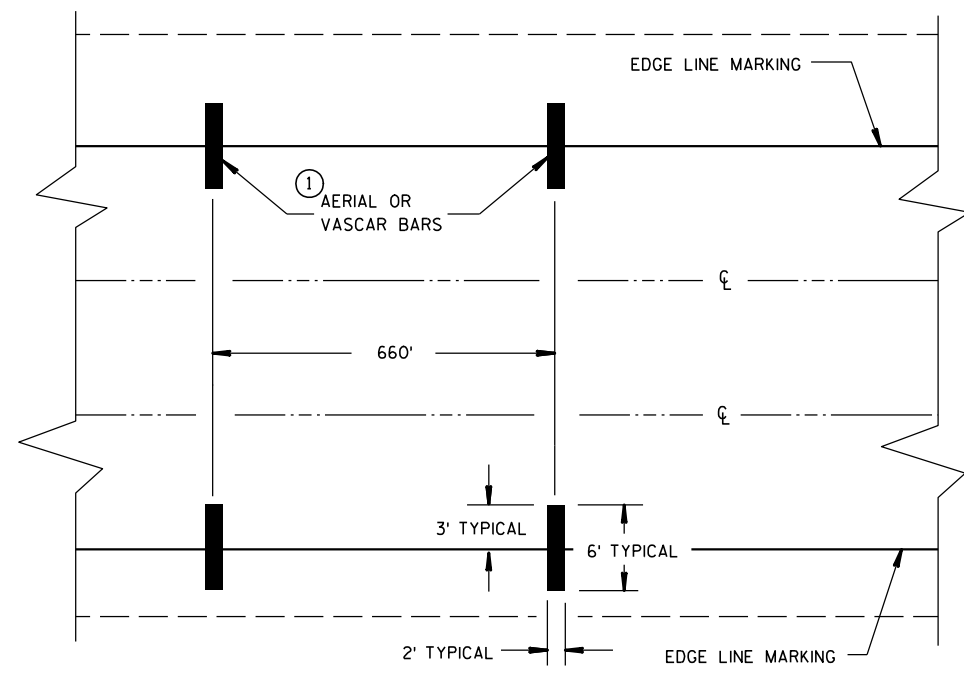
TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
8/2013 /S/ Travis Feltes  
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

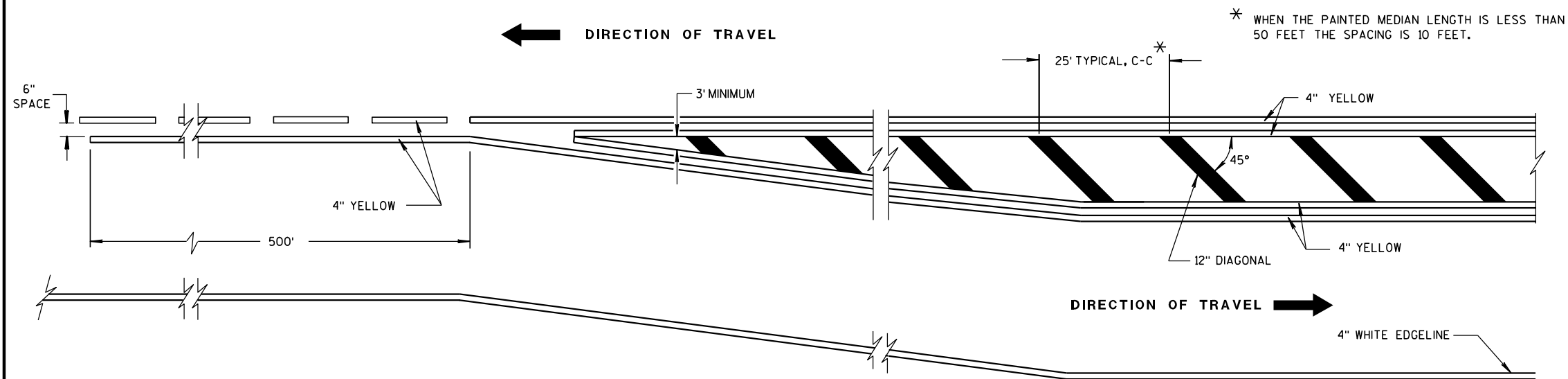
GENERAL NOTES

- 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

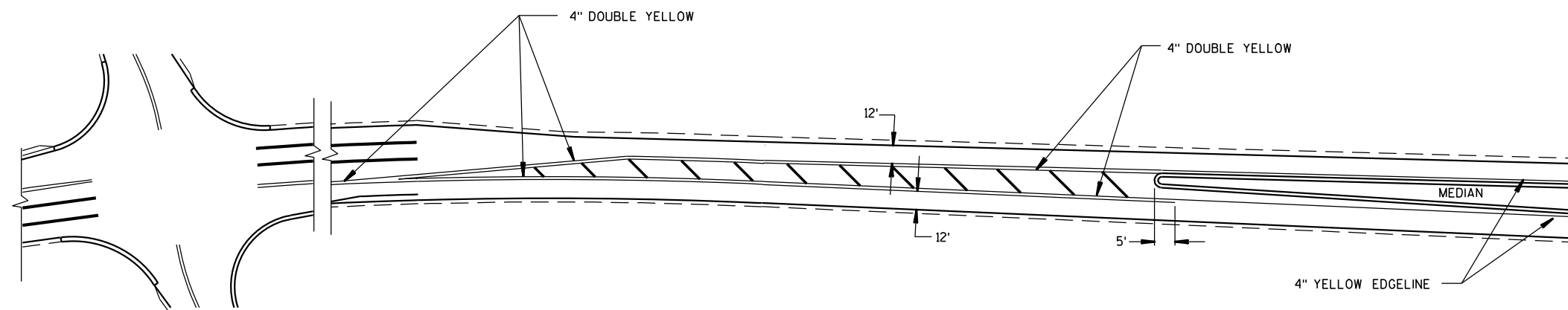
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

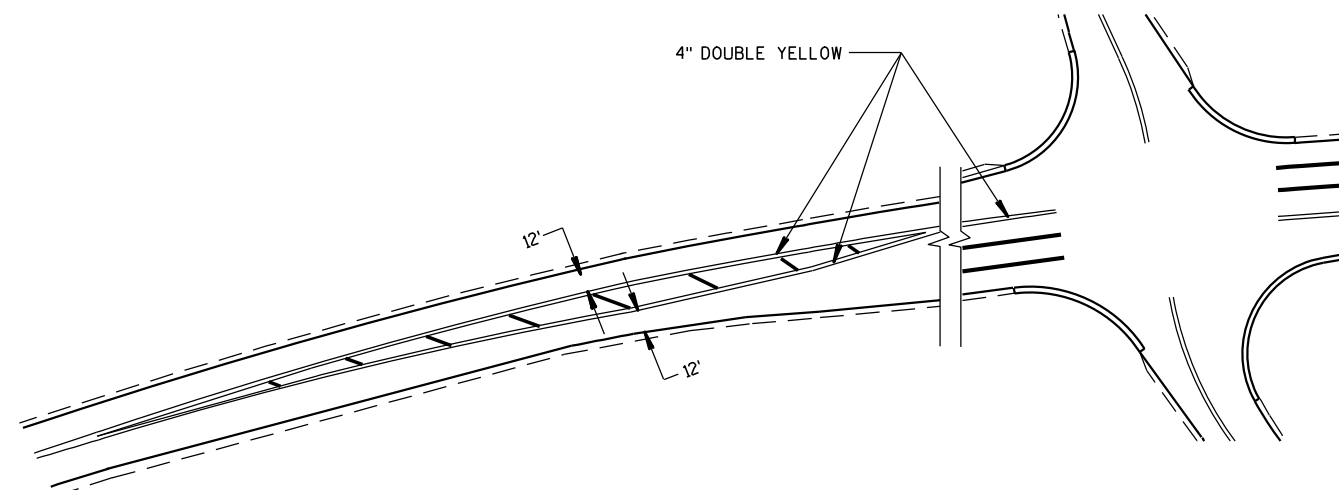


## GENERAL NOTE

## MEDIAN ISLAND DETAIL

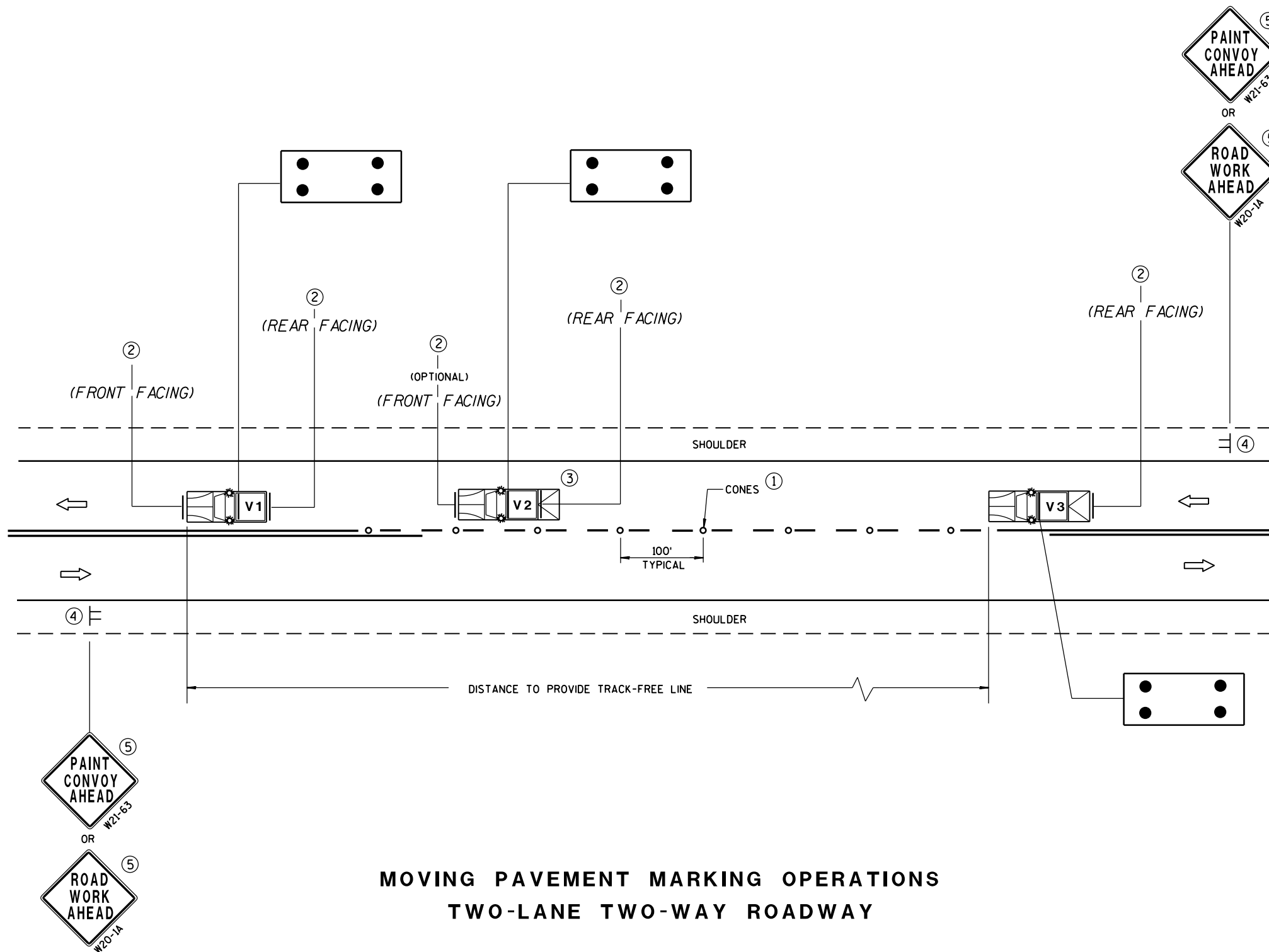


## APPROACH MARKINGS FOR OTHER MEDIAN TYPES



## NON APPROACH MARKINGS

<b>MEDIAN ISLAND MARKING</b>	
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.

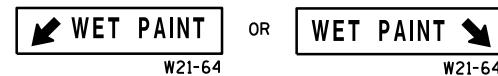
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

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

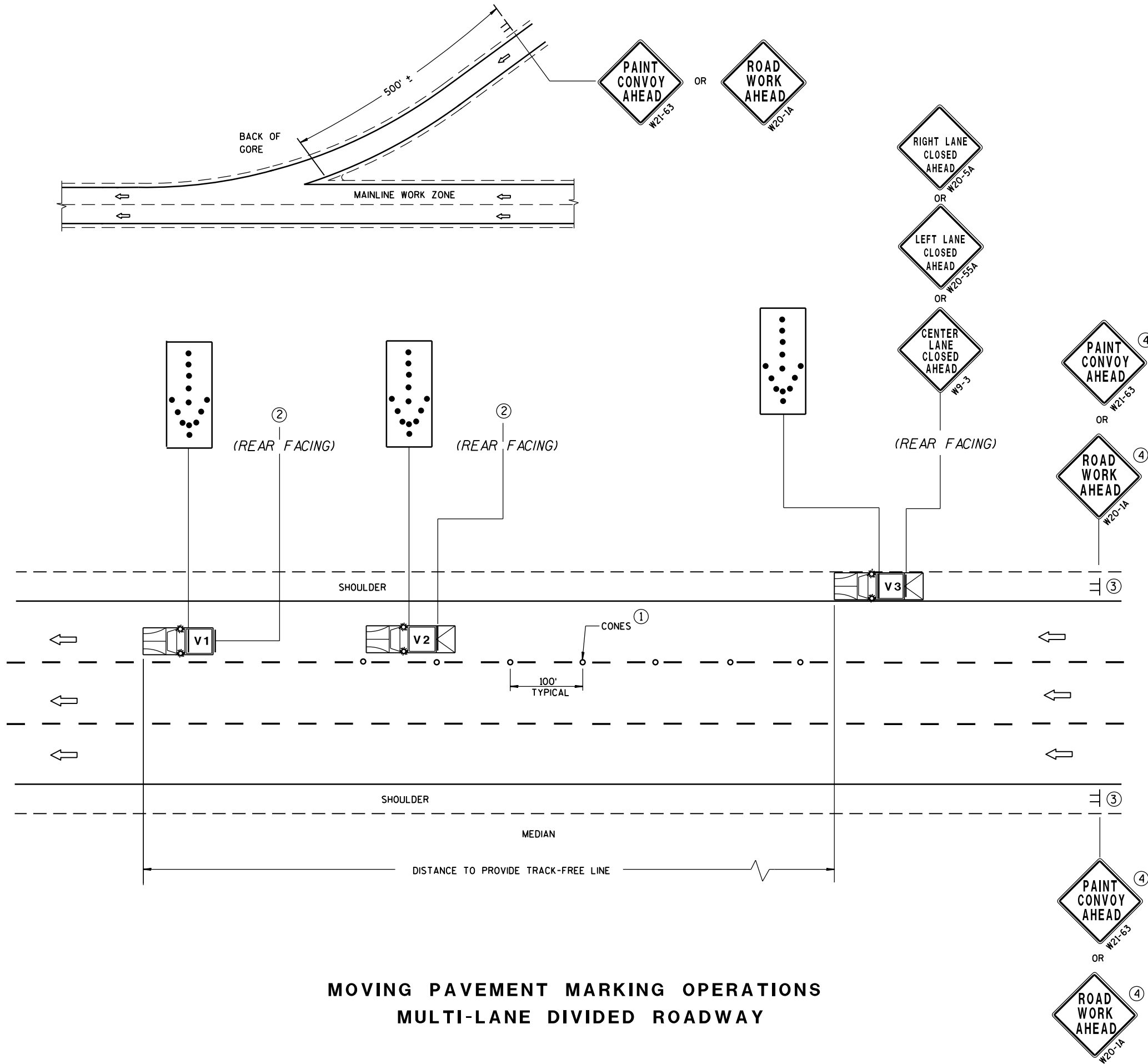
APPROVED

June 2016

DATE

FHWA

/S/ Peter Amakobe Atepe  
STATEWIDE WORK ZONE TRAFFIC  
SAFETY ENGINEER



MOVING PAVEMENT MARKING OPERATIONS  
MULTI-LANE DIVIDED ROADWAY

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

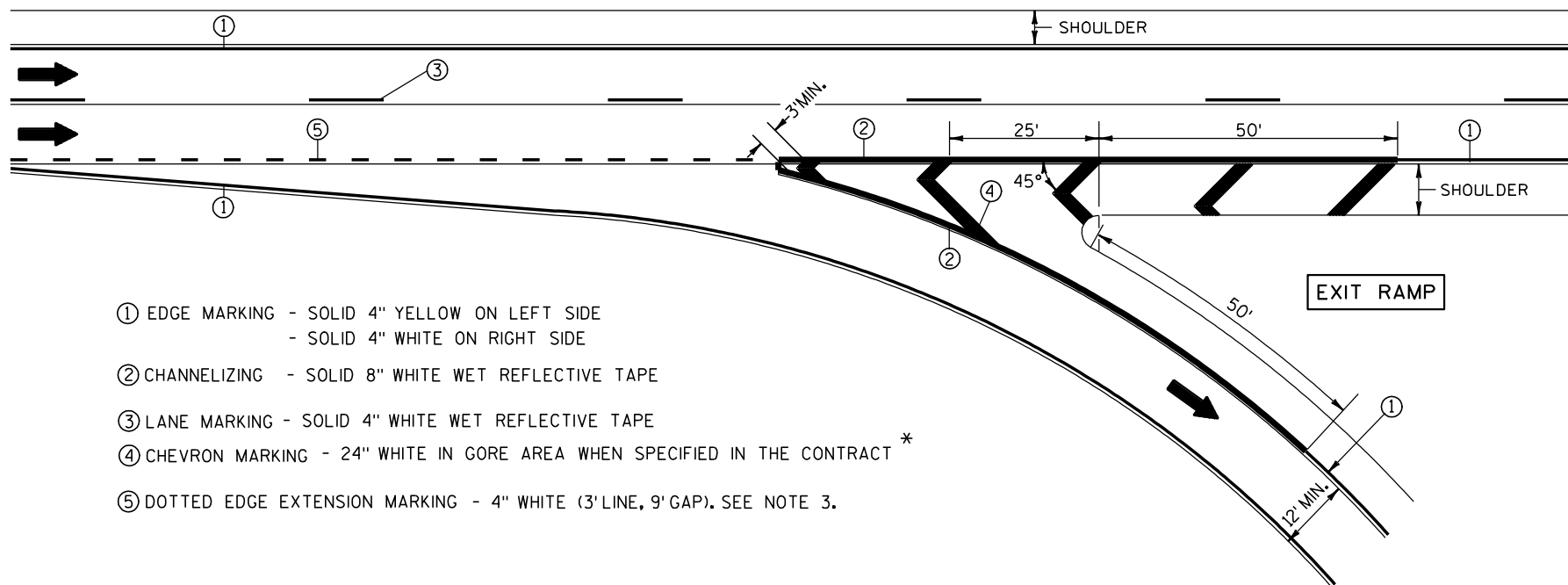
LEGEND

- 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  
June 2016 /S/ Peter Amakobe Atepe  
DATE STATEWIDE WORK ZONE TRAFFIC  
FHWA SAFETY ENGINEER

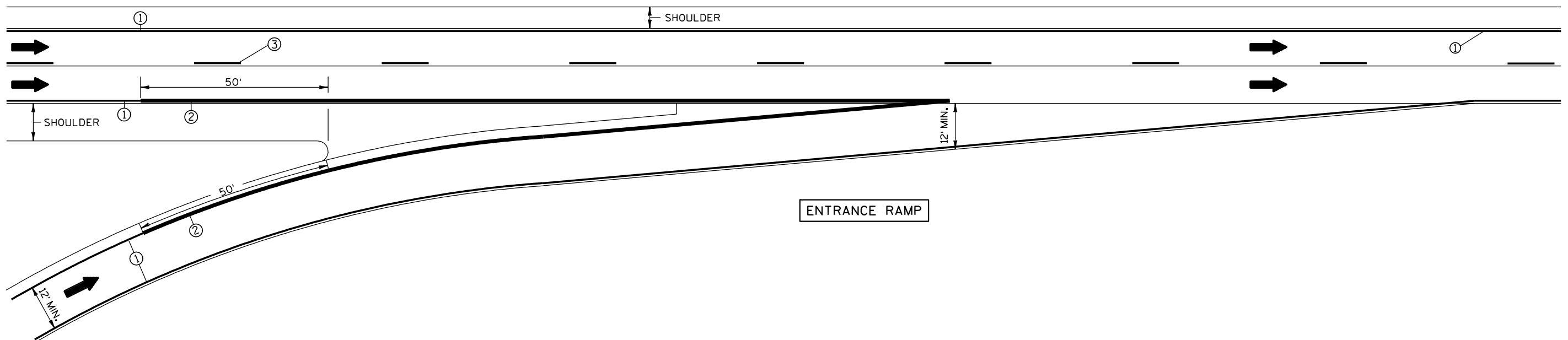


- ① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE  
- SOLID 4" WHITE ON RIGHT SIDE
- ② CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE
- ③ LANE MARKING - SOLID 4" WHITE WET REFLECTIVE TAPE
- ④ CHEVRON MARKING - 24" WHITE IN GORE AREA WHEN SPECIFIED IN THE CONTRACT \*
- ⑤ DOTTED EDGE EXTENSION MARKING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

NOTES:

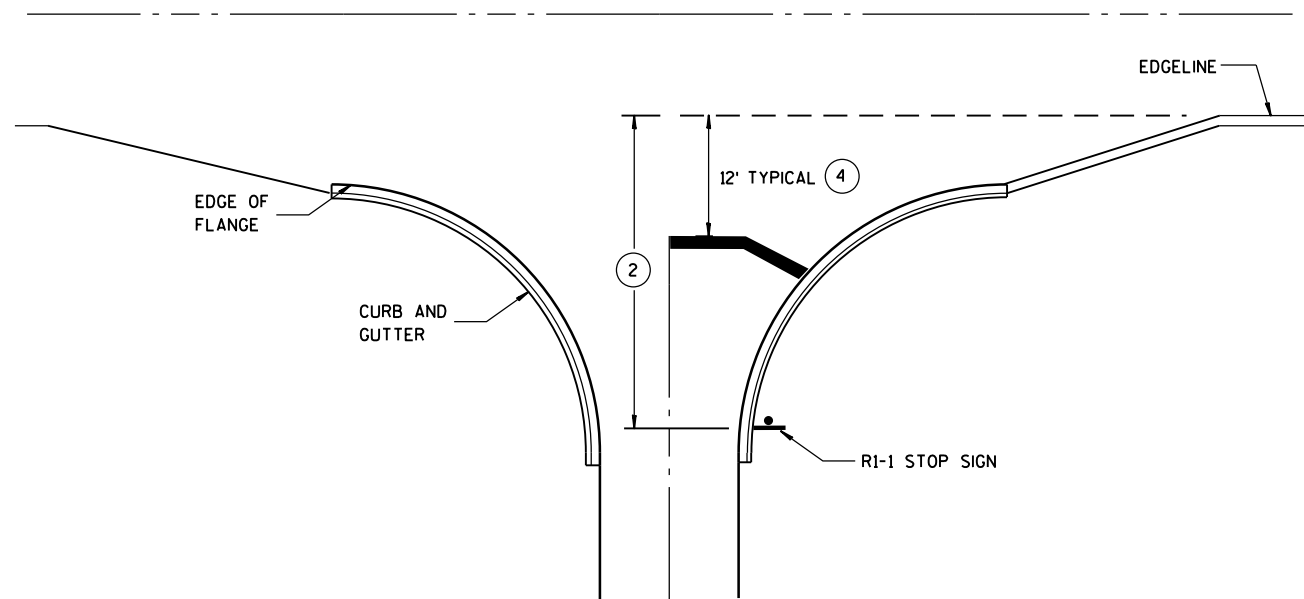
- 1. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
- 2. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.
- 3. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- 4. RETRACE EXISTING DIAGONAL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

\* REFER TO DESIGN NOTES.

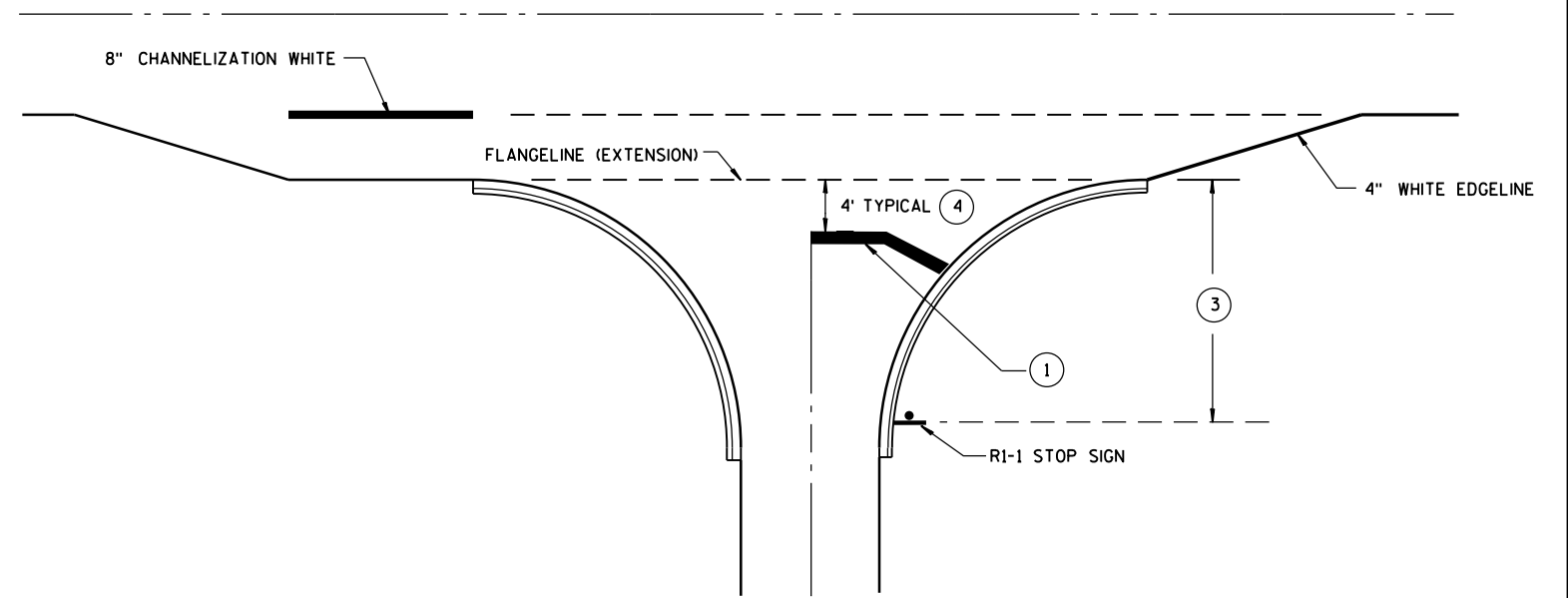


PAVEMENT MARKING  
(RAMPS AND GORES)

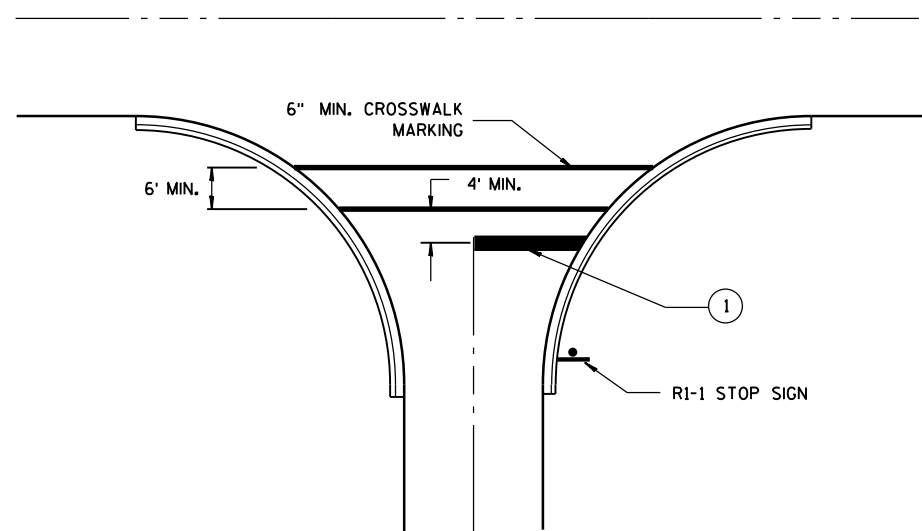
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



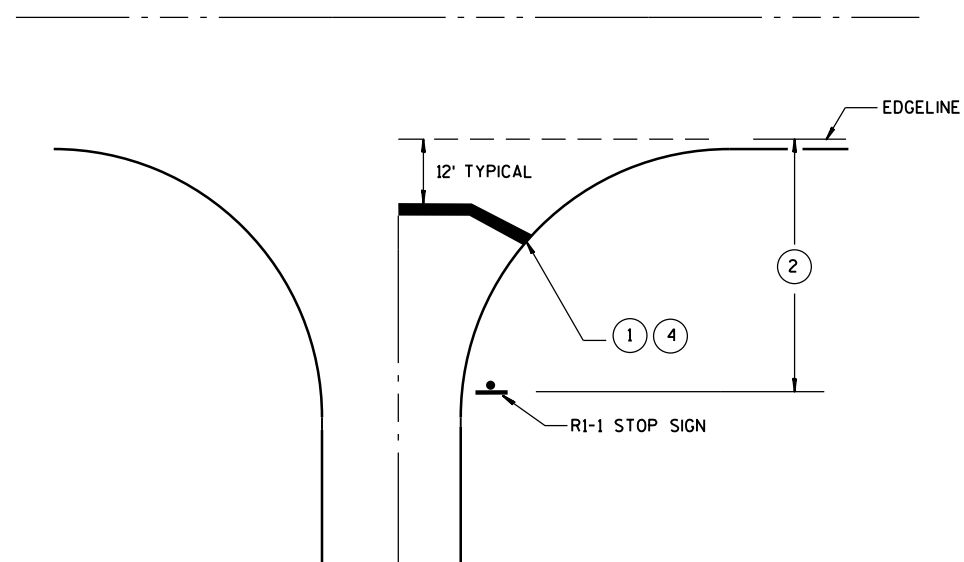
**TYPICAL STOP LINE PAVEMENT MARKING  
WITH CURB AND GUTTER**



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



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



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

### GENERAL NOTES

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

**STOP LINE AND CROSSWALK  
PAVEMENT MARKING**

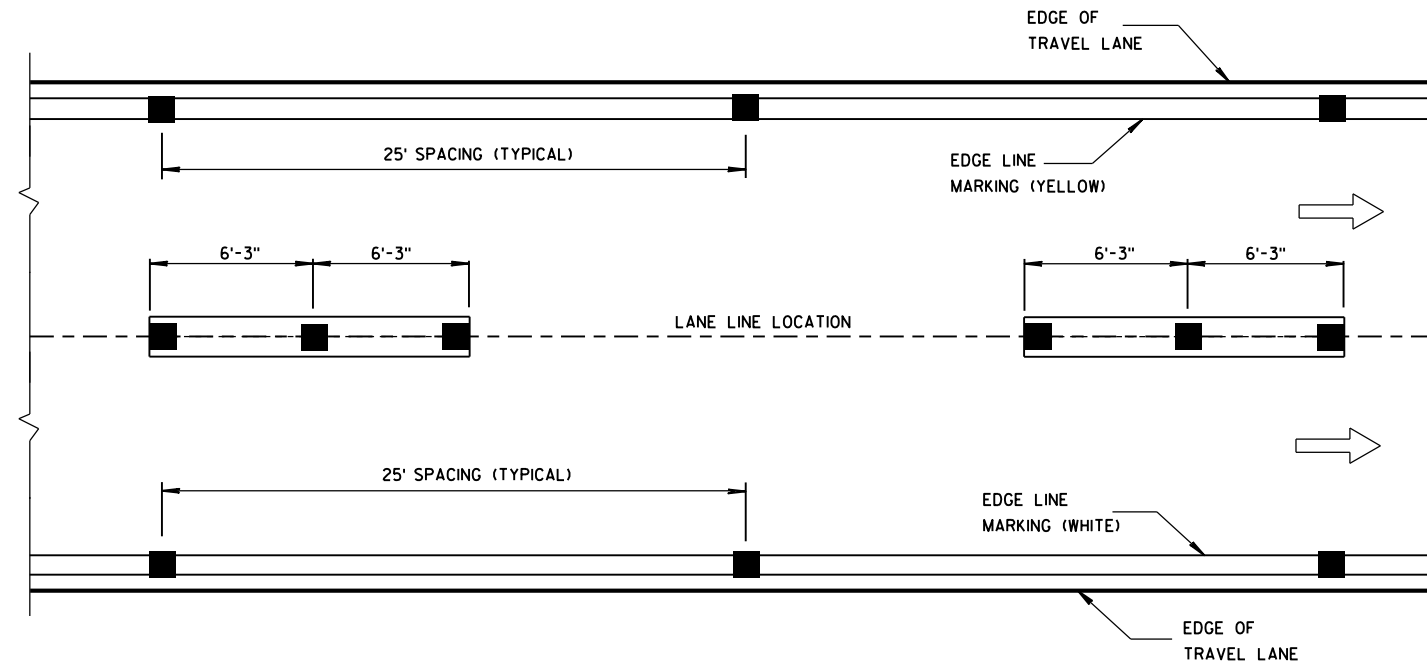
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

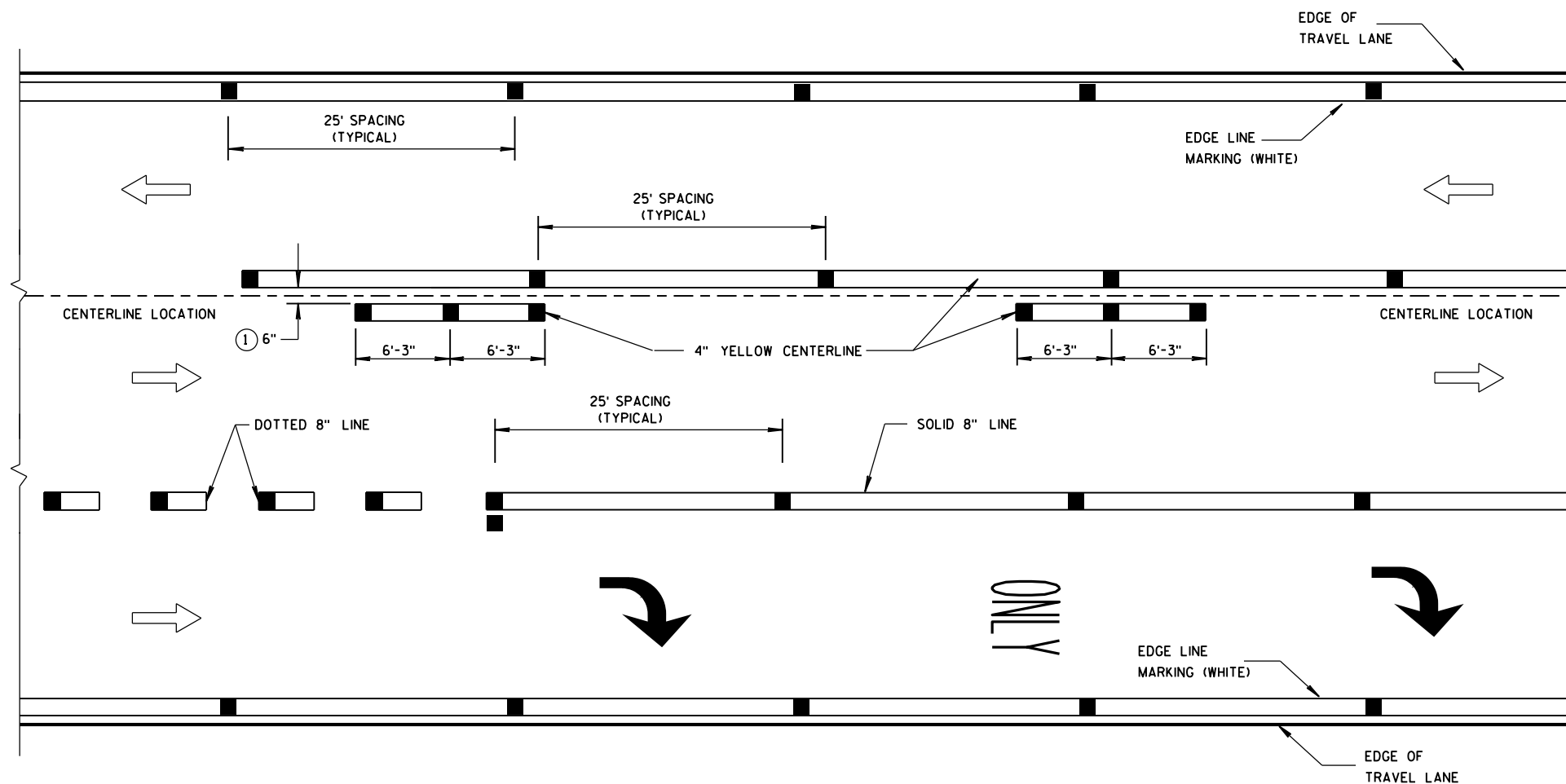
4-18-2016  
DATE

FHWA

/S/ Matthew R. Rauch  
STATE SIGNING AND MARKING ENGINEER



**LONGITUDINAL PLACEMENT  
LANE LINE**



**LONGITUDINAL PLACEMENT  
CENTERLINE AND 8-INCH CHANNEL LINE**

## GENERAL NOTES

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

COLOR OF TEMPORARY RAISED PAVEMENT MARKERS, TYPE II SHALL MATCH THE COLOR OF THE MARKING THEY SUPPLEMENT.

PLACE 3 TEMPORARY RAISED PAVEMENT MARKERS EVENLY SPACED ON EACH 12.5 FOOT LINE.

PROVIDE SINGLE OR MULTI-COVER TEMPORARY RAISED PAVEMENT MARKERS AS SHOWN ON PLAN.

PLACE TEMPORARY RAISED PAVEMENT MARKERS, TYPE II ON EDGELINE TAPER POINTS AND END POINTS.

MARK T's ON PAVEMENT FOR RE-ESTABLISHING NO PASSING ZONES.

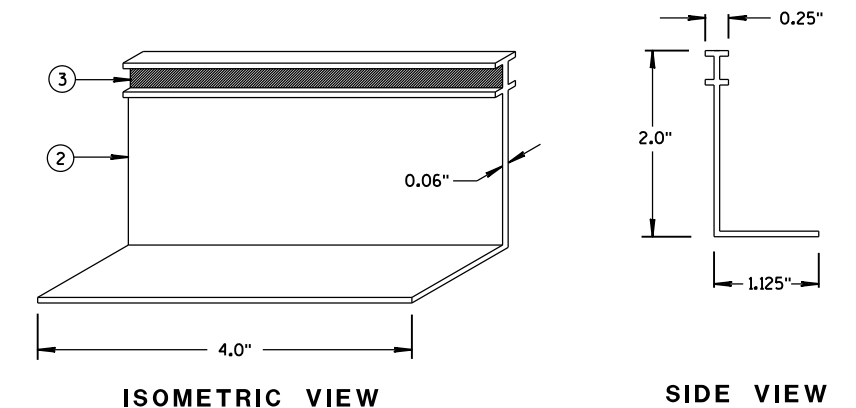
- ① FOR DOUBLE SOLID YELLOW, PLACE THE MARKERS DIRECTLY ACROSS FROM EACH OTHER, WITH A 6 INCH SPACE BETWEEN THEM.
- ② MARKERS SHALL BE OF POLYURETHANE MATERIAL.
- ③ MARKERS SHALL HAVE A MINIMUM SIZE REFLECTIVE SURFACE OF 4 INCH WIDTH X 0.25 INCH HEIGHT.

## NOTE

ARROW SYMBOL ( → ) SHOWS DIRECTION OF TRAVEL

## LEGEND

■ TEMPORARY RAISED PAVEMENT MARKER, TYPE II



**TEMPORARY  
RAISED PAVEMENT MARKER**

<b>STANDARD APPLICATION FOR TEMPORARY RAISED PAVEMENT MARKERS, TYPE II</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-28-2016 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- 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.

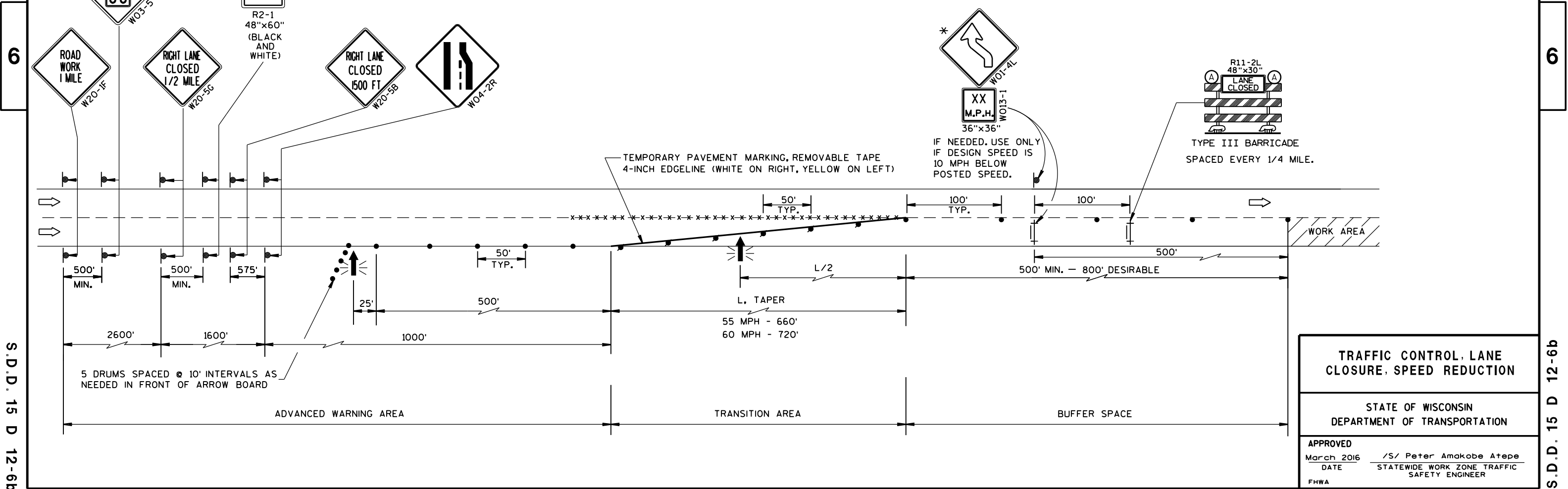
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

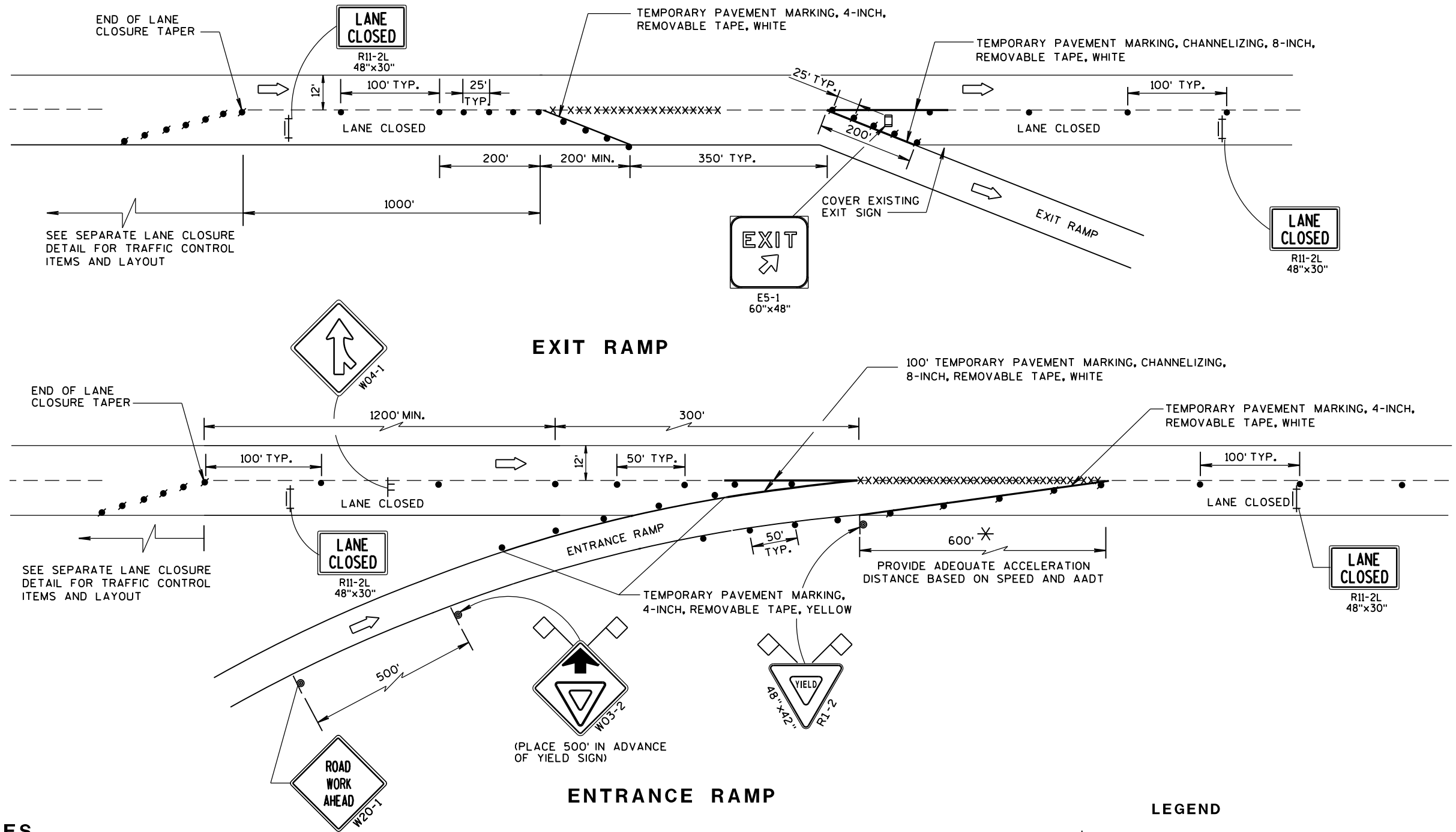
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

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.

\*\* A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. THERE SHOULD BE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 2 OR 3 MILES. INCLUDE A RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIREABLE) BEYOND THE "END OF ROADWORK" SIGN.





GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

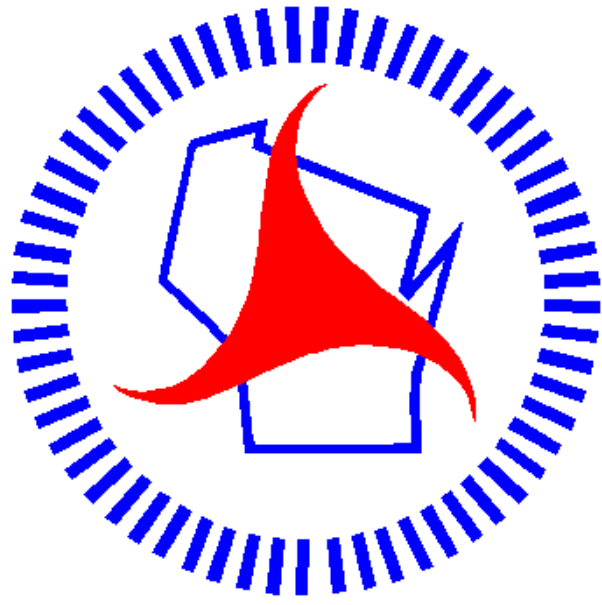
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

\* LENGTH OF OPENING MAY BE REDUCED TO 150 FEET DURING STAGING OF WORK IN IMMEDIATE AREA OF RAMP TAPER.

- LEGEND
- ⊙ SIGN ON PERMANENT SUPPORT
  - ├ SIGN ON TEMPORARY SUPPORT
  - TRAFFIC CONTROL DRUM
  - TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
  - XXXXX REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
  - ┼ TYPE III BARRICADE WITH ATTACHED SIGN
  - ▢ FLAGS, 16" x 16" MIN., (ORANGE)
  - ➡ DIRECTION OF TRAFFIC

TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED Sept. 2015 DATE	/S/ Peter Amokobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	



## ***Wisconsin Department of Transportation***

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