MAY 2019

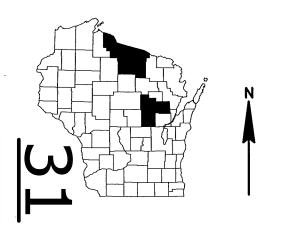
ORDER OF SHEETS

Section No. 1 Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantities

Right of Way Plat

Section No. 6 Standard Detail Drawings

TOTAL SHEETS = 32



DESIGN DESIGNATION 1009-42-48

A.A.D.T. VARIES = VARIES A.A.D.T. VARIES = VARIES D.H.V. = VARIES D.D. = VARIES = VARIES DESIGN SPEED = VARIES = VARIES

CONVENTIONAL SYMBOLS

PLAN

CORPORATE LIMITS PROPERTY LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE PROPOSED CULVERT

MARSH AREA

WOODED OR SHRUB AREA

COMBUSTIBLE FLUIDS

PROFILE

ORIGINAL GROUND

SPECIAL DITCH

GRADE ELEVATION

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

STORM SEWER

TELEPHONE WATER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

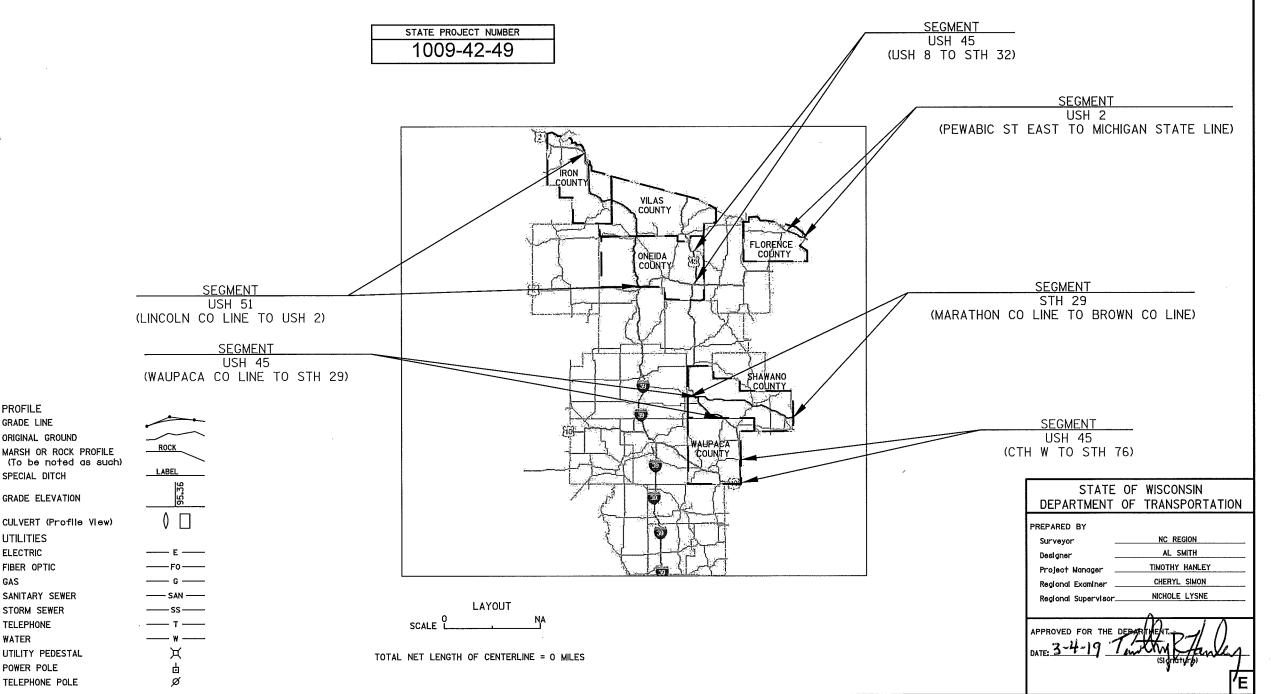
PLAN OF PROPOSED IMPROVEMENT

NC REGION, EPOXY PAVEMENT MARKING

LOCATIONS ON STN PER ANNUAL PLAN

VAR HWY

NORTH CENTRAL REGION WIDE



FEDERAL PROJECT

PROJECT

WISC 2019300

CONTRACT

STATE PROJECT

1009-42-49

9

DNR LIAISON

GENERAL NOTES

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

Jon Simonsen (715)367-1936

Jonathan.Simonsen@wisconsin.gov

COUNTIES: Iron, Vilas amd Florence

Wendy Henniges (715)421-7845
Wendy.Henniges@wisconsin.gov
COUNTIES: Oneida

Marc Hershfield (715)421-7867

Marc.Hershfield@wisconsin.gov

COUNTIES: Waupaca

Jim Doperalski Jr. (920)412-0165

James. Doperalski@wisconsin.gov

COUNTIES: Shawano

Runoff Coefficient Table

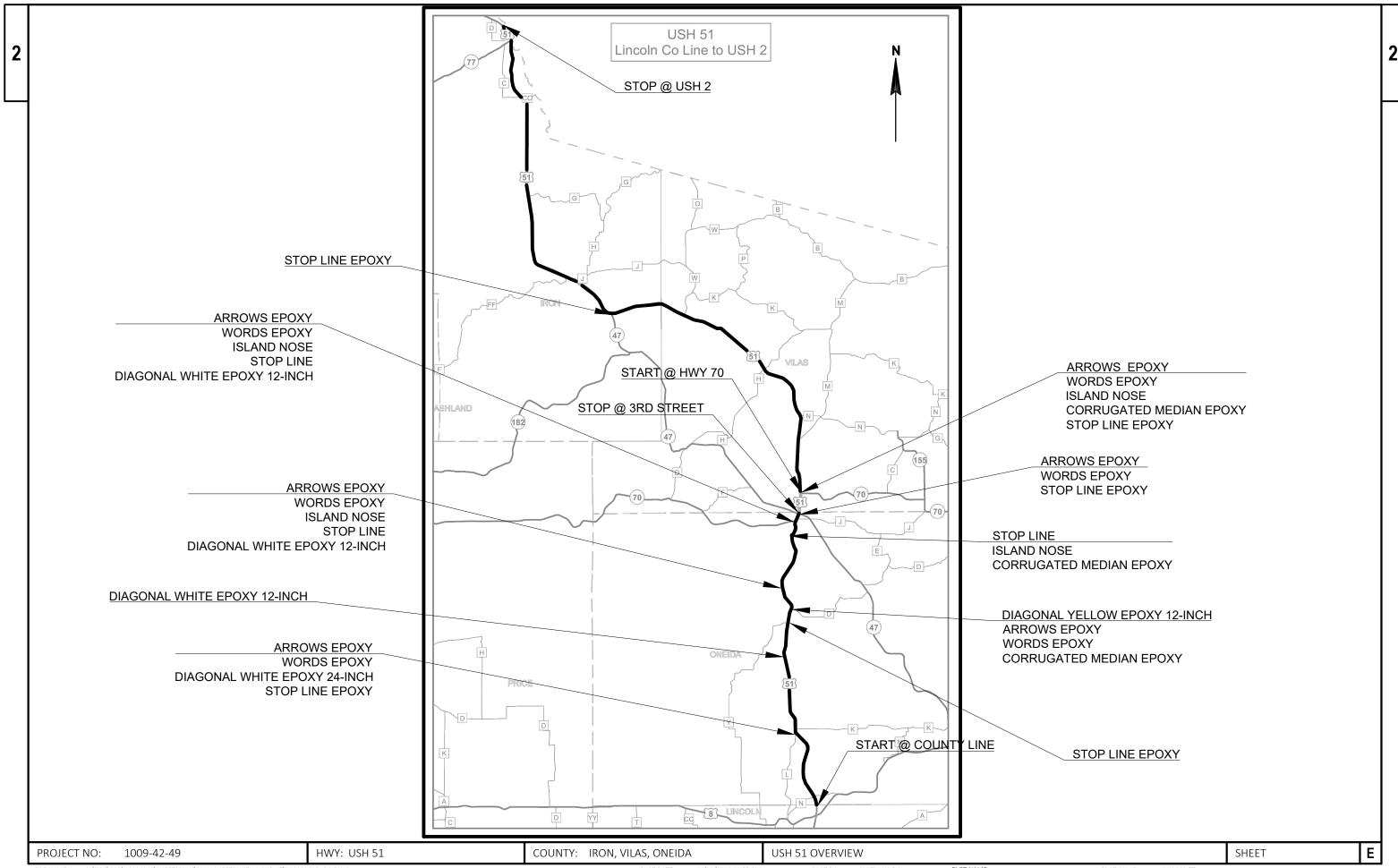
					Hyd	rologic	Soil G	roup						
		A B C									D			
					Slop	e Rang	e (Per	cent)						
	0 2	2 2-6 6& 0-2 2-6 6& 0-2 2-6 6& 0-								0 - 2	2 - 6	6&		
Land Use	0 - 2	2-6	Over	0-2	2-6	Over	0-2	2-6	Over	0-2	2-6	Over		
Row Crops	0.08	0.16	0.22	0.12	0.20	0.27	0.15	0.24	0.33	0.19	0.28	0.38		
Now Crops	0.22	0.30	0.38	0.26	0.34	0.44	0.30	0.37	0.50	0.34	0.41	0.56		
Median Strip-Turf	0.19	0.20	0.24	0.19	0.22	0.26	0.20	0.23	0.30	0.20	0.25	0.30		
Wedian Surp-run	0.24	0.26	0.30	0.25	0.28	0.33	0.26	0.30	0.37	0.27	0.32	0.40		
Sido Slono Turf	0.25 0.27 0.28									0.30				
Side Slope Tull	Side Slope Turf 0.32 0.34 0.34							0.36			0.38			
Pavement														
Asphalt						0.70	- 0.95							
Concrete						0.80	- 0.95							
Brick		0.70 - 0.80												
Drives, Sidewalks	0.75 - 0.85													
Roofs						0.75	- 0.95							
Gravel Roads, Shoulders		•				0.40	- 0.60		•		•			

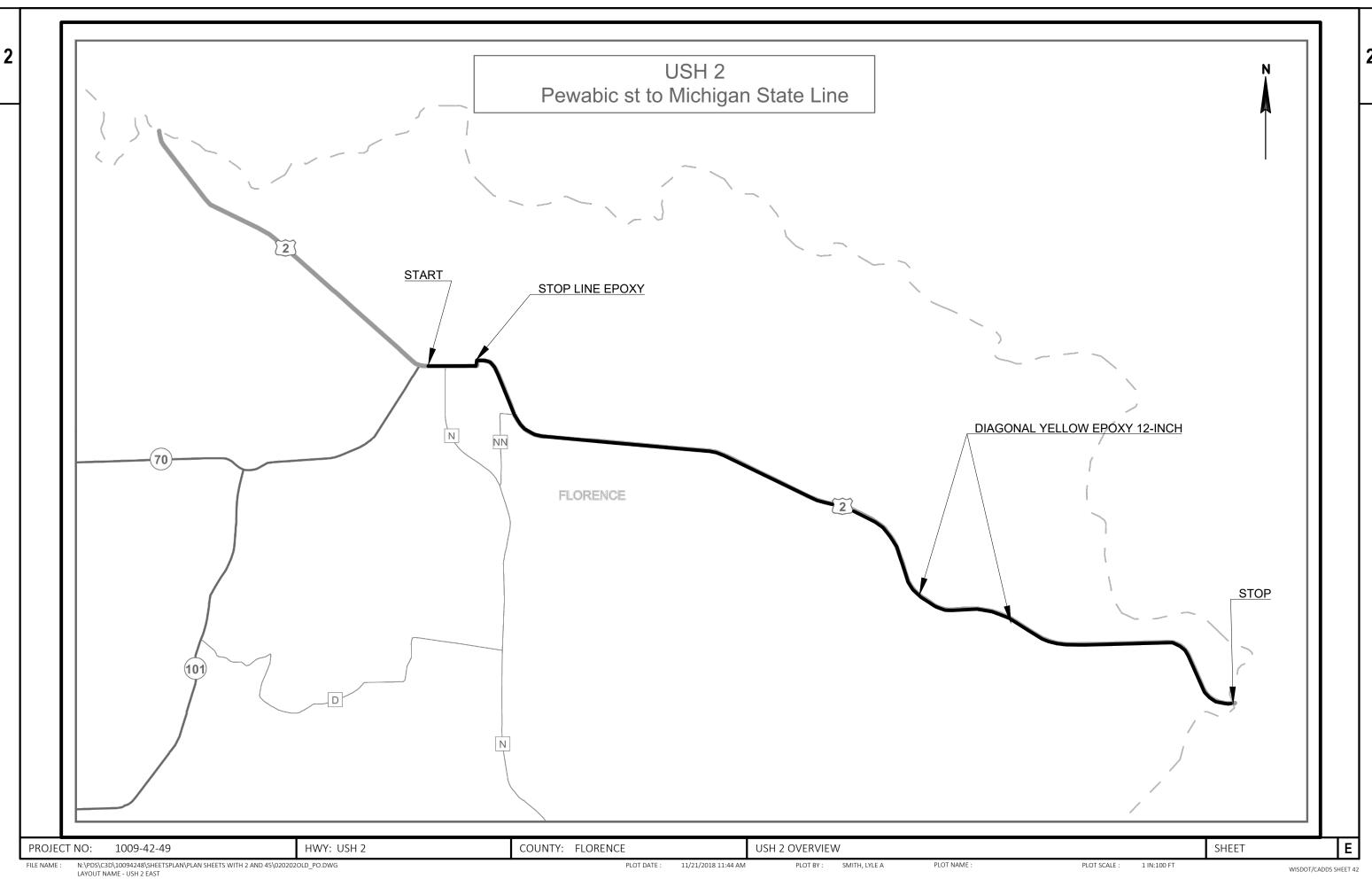
Total Project Area = 279 Acres

Total Area Expected To Be Disturbed By Construction Activities = 0 Acres



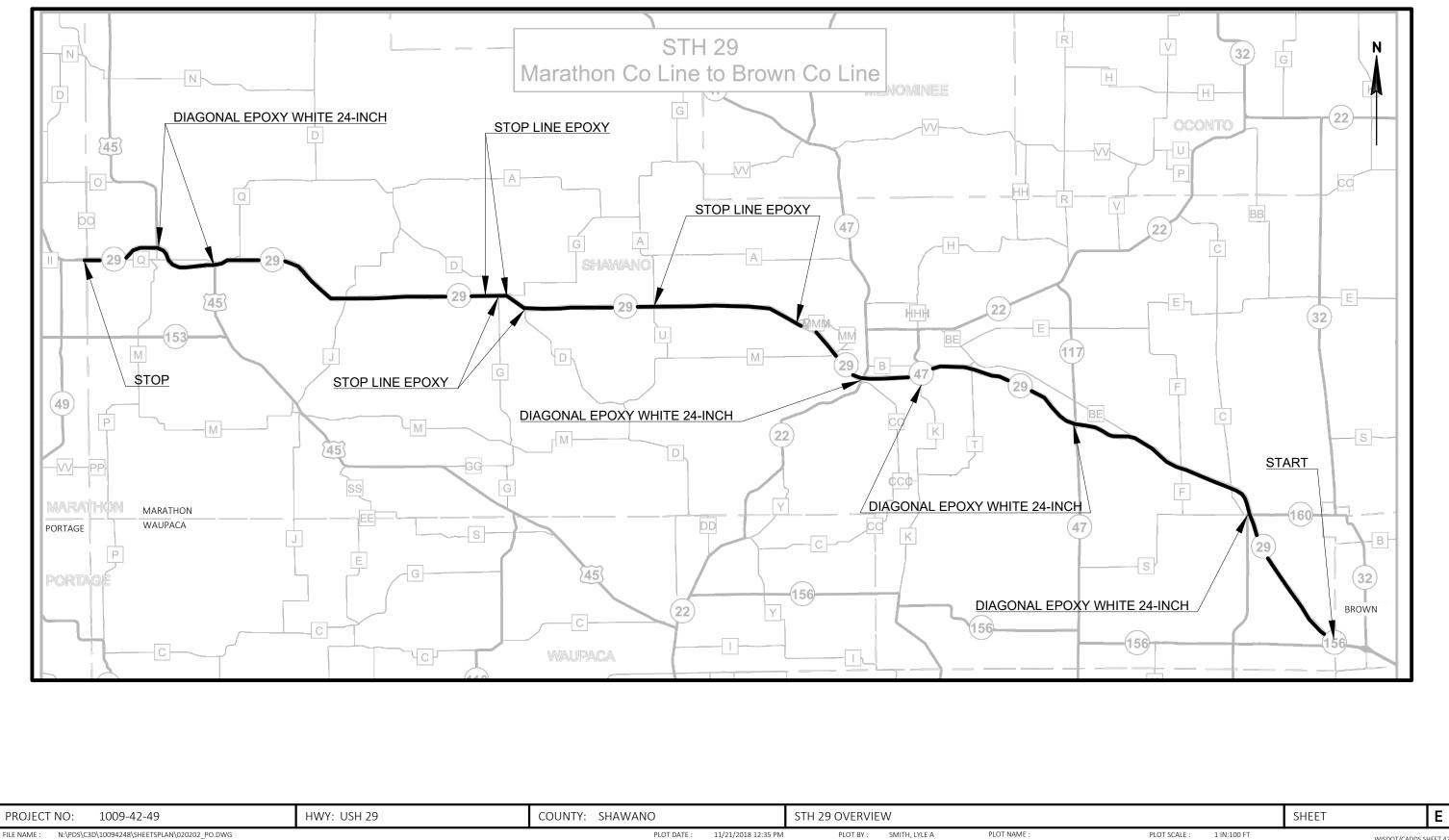
PROJECT NO: 1009-42-49 HWY: VARIOUS COUNTY: NC REGION WIDE GENERAL NOTES SHEET: **E**





WISDOT/CADDS SHEET 42

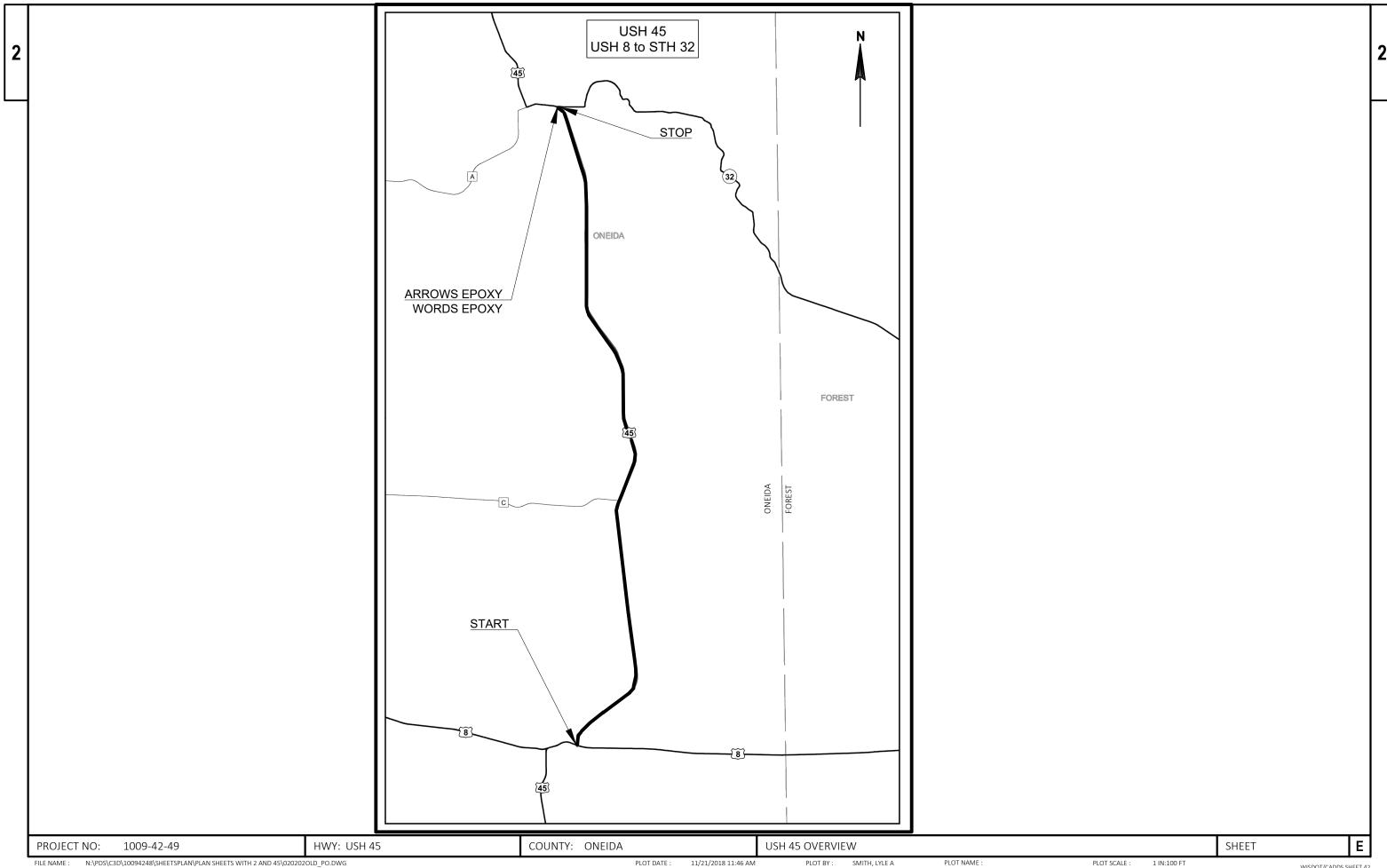


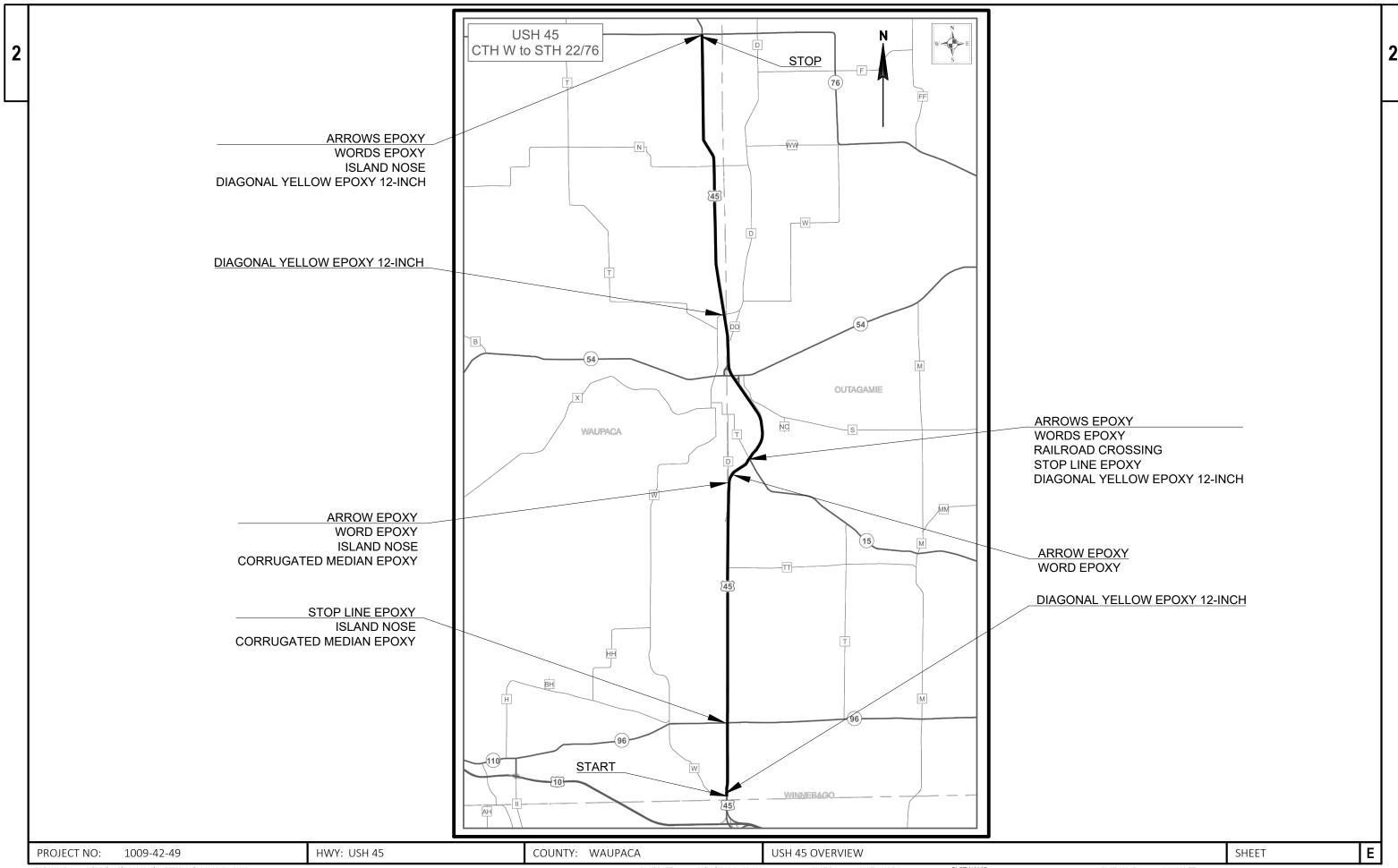


FILE NAME :

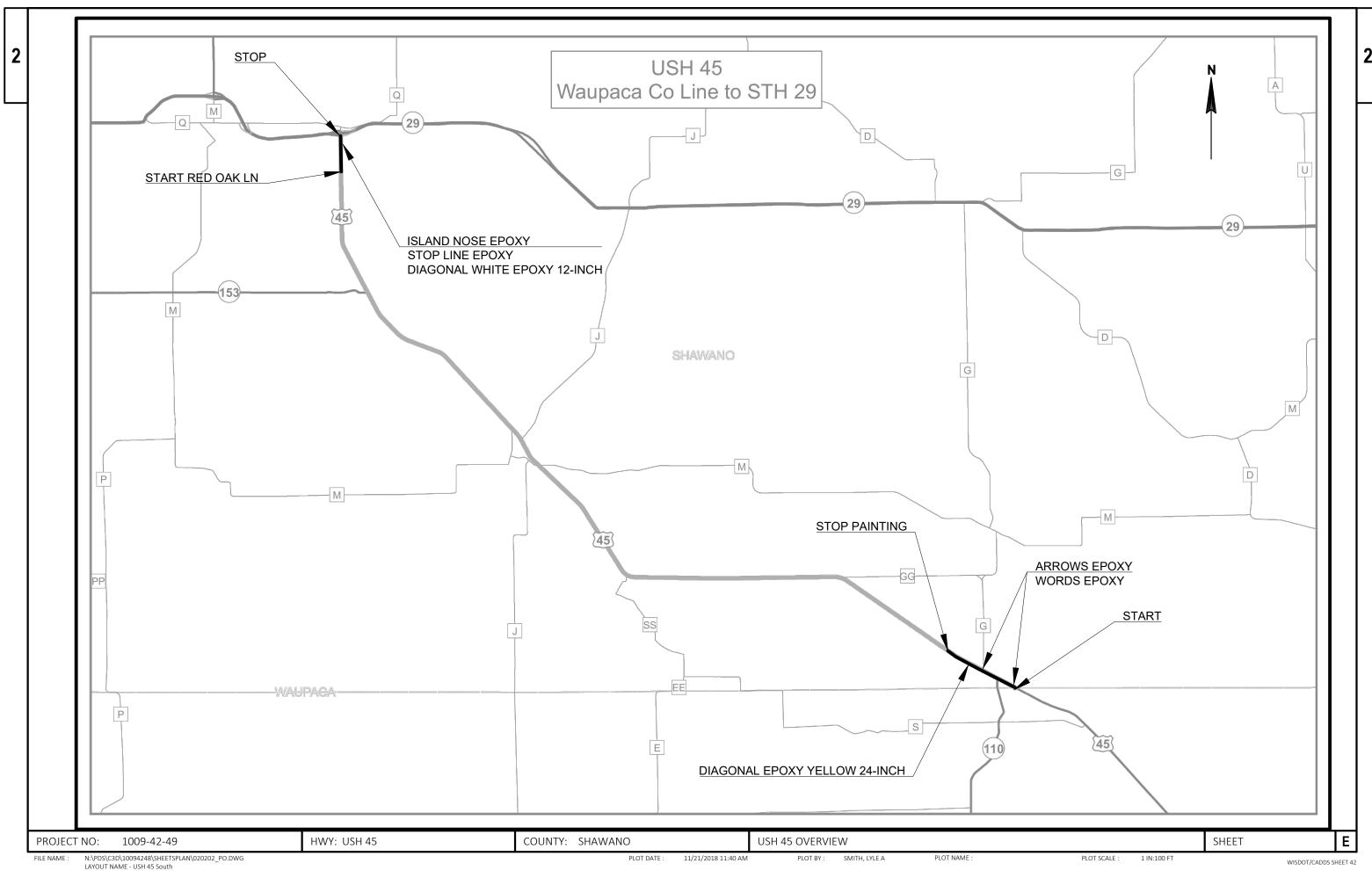
PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42





FILE NAME: N:\PDS\C3D\10094248\SHEETSPLAN\020202_PO.DWG PLOT DATE: 11/21/2018 11:38 AM PLOT BY: SMITH, LYLE A PLOT NAME: PLOT SCALE: 1 IN:100 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - USH 45 WAUPACA



Estimate Of Quantities

1009-42-49

Page 1

9 -

Line	Item	Item Description	Unit	Total	Qty
0002	610 1000	Mobilization	EACH	1 000	1,000
0002	619.1000	Mobilization	EACH	1.000	1.000
0004	646.1020	Marking Line Epoxy 4-Inch	LF	3,145,552.000	3,145,552.000
0006	646.3020	Marking Line Epoxy 8-Inch	LF	62,423.000	62,423.000
8000	646.5020	Marking Arrow Epoxy	EACH	189.000	189.000
0010	646.5120	Marking Word Epoxy	EACH	55.000	55.000
0012	646.5320	Marking Railroad Crossings Epoxy	EACH	4.000	4.000
0014	646.6120	Marking Stop Line Epoxy 18-Inch	LF	1,039.000	1,039.000
0016	646.7120	Marking Diagonal Epoxy 12-Inch	LF	8,210.000	8,210.000
0018	646.7220	Marking Chevron Epoxy 24-Inch	LF	1,937.000	1,937.000
0020	646.8020	Marking Corrugated Median Epoxy	SF	4,587.000	4,587.000
0022	646.8220	Marking Island Nose Epoxy	EACH	32.000	32.000
0024	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0026	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

			MARKING				
		646.	1020	646.3020		646.7220	
		LI	NE	LINE	646.6120	DIAGONAL	
		EP(YXC	EPOXY	STOP LINE	EPOXY	1
		4-11	NCH	8-INCH	EPOXY	24-INCH	1
		YELLOW	WHITE	WHITE	18-INCH	WHITE	
LOCATION		LF	LF	LF	LF	LF	REMARKS
SHAWANO COUNTY	MARATHON CO LINE TO BROWN CO LINE	563,894	673,504	42,149			MAINLINE
SHAWANO COUNTY	STH 29 EB & 45 NORTH				52		INTERSECTION
SHAWANO COUNTY	STH 29 EB & CTH D				21		INTERSECTION
SHAWANO COUNTY	STH 29 EB & STH 22				30	390	INTERSECTION
SHAWANO COUNTY	STH 29 EB & STH 55N / 47S				30	132	INTERSECTION
SHAWANO COUNTY	STH 29 EB & STH 47 / 117				30	178	INTERSECTION
SHAWANO COUNTY	STH 29 EB & STH 55 / 160				30	186	INTERSECTION
SHAWANO COUNTY	STH 29 WB & STH 55 / 160				28	146	INTERSECTION
SHAWANO COUNTY	STH 29 WB & STH 47 / 117				30	155	INTERSECTION / MAINLINE
SHAWANO COUNTY	STH 29 WB & STH 47				28	182	INTERSECTION / MAINLINE
SHAWANO COUNTY	STH 29 WB & STH 22				30	168	INTERSECTION
SHAWANO COUNTY	STH 29 WB & STH 45 SOUTH				60	133	INTERSECTION
SHAWANO COUNTY	STH 29 WB & CTH Q				40	134	INTERSECTION
SHAWANO COUNTY	STH 29 WB & STH 45 NORTH				60	133	INTERSECTION
	SUBTOTALS:	563,894	673,504	42,149			
	TOTALS:	1,237	7,398	42,149	469	1,937	

PROJECT NO:1009-42-49 HWY: STH 29 COUNTY: SHAWANO MISCELLANEOUS QUANTITIES SHEET: E

FILE NAME : _____ PLOT DATE : ____ PLOT BY : ____ PLOT NAME : ____ PLOT SCALE : 1:1

			MARI	KING				
		646.	1020	646.3020				
		LINE		LINE	646.5020		646.6120	
			EPOXY		ARROWS	ARROWS 646.5120		
		4-IN	ICH	8-INCH	EPOXY	WORDS	EPOXY	
		YELLOW	WHITE	WHITE	TYPE 2	EPOXY	18-INCH	
LOCATION		LF	LF	LF	EACH	EACH	LF	REMARKS
ONEIDA COUNTY	USH 8 - STH 32	79,293	173,712	567				MAINLINE
ONEIDA COUNTY	US 45 & JAVEN RD				1	1		INTERSECTION
ONEIDA COUNTY	US 45 & STH 32				2	2	20	INTERSECTION
	SUBTOTALS:	79,293	173,712	567				
	TOTALS:	253,	005	567	3	3	20	

PROJECT NO: 1009-42-49 HWY: USH 45 COUNTY: ONEIDA MISCELLANEOUS QUANTITIES SHEET: **E**

				MARKING							
		646.	1020	646.3020				646	5.7120		
·		LINE		LINE	646.5020		646.6120	DIAC	GONAL	646.8220	
		EPO	YXC	EPOXY	ARROW	647.5120	STOP LINE	EP	OXY	ISLAND NOSE	
		4-11	NCH	8-INCH	EPOXY	WORDS	EPOXY	12-	-INCH	EPOXY	
		YELLOW	WHITE	WHITE	TYPE 2	EPOXY	18-INCH	WHITE	YELLOW	YELLOW	
LOCATION		LF	LF	LF	EACH	EACH	LF	LF	LF	EACH	REMARKS
SHAWANO COUNTY	WAUPACA CO LINE TO GOLLNOW RD	10,990	11,076	1,000					334		MAINLINE
SHAWANO COUNTY	USH 45 & STH 153						21				INTERSECTION
SHAWANO COUNTY	RED OAK RD TO STH 29 WB RAMP	3200	2680	400	2	2		221	27	5	INTERSECTION
	SUBTOTALS:	14,190	13,756	1,400				221	361		
	TOTALS:	27,	946	1,400	2	2	21	ļ	582	5	

PROJECT NO: 1009-42-49 HWY: USH 45 COUNTY: SHAWANO MISCELLANEOUS QUANTITIES SHEET: **E**

		MARKING						
		646.1	020	646.3020	646.502		647.7120.	
		LIN	E	LINE	EPOXY	646.6120	DIAGONAL	
		EPO	XY	EPOXY	ARROWS	STOP LINE	EPOXY	
		4-IN	CH	8-INCH	EPOXY	EPOXY	12-INCH	
		YELLOW	WHITE	WHITE	TYPE 2	18-INCH	WHITE	
LOCATION		LF	LF	LF	EACH	LF	LF	REMARKS
FLORENCE COUNTY	USH 2 (PEWABIC ST WEST TO MICHIGAN STATE LINE)	65,287		400				MAINLINE
FLORENCE COUNTY	USH 2 - FLORENCE AVE					33		INTERSECTION
FLORENCE COUNTY	USH 2 @ EAST TWIN FALLS RD - WASHINGTON LANE				10		342	MEDIAN
FLORENCE COUNTY	USH 2 @ EAST TALL PINE RD - LAKE ELLWOOD RD				24		339	MEDIAN
	SUBTOTALS:	65287	0					
	FLORENCETOTALS:	65,2	87	400	34	33	681	

PROJECT NO: 1009-42-49 HWY: USH 2 COUNTY: FLORENCE MISCELLANEOUS QUANTITIES SHEET: **E**

					MADIZIA	10							
					MARKIN	<u>IG</u>							
										646.7120	646.8020		
		646.	1020	646.3020	646.5020	646.5020		646.5320	646.6120	DIAGONAL	CONCRETE	646.8220	
		EP(OXY	EPOXY	ARROWS	ARROWS	646.5120	RAILROAD	STOP LINE	EPOXY	CORRUGATED	ISLAND NOSE	
		4-IN	NCH	8-INCH	EPOXY	EPOXY	WORDS	CROSSING	EPOXY	12-INCH	MEDIAN	EPOXY	
		YELLOW	WHITE	WHITE	TYPE 4	TYPE 2	EPOXY	EPOXY	18-INCH	YELLOW	EPOXY	YELLOW	
LOCATION		LF	LF	LF	EACH	EACH	EACH	EACH	LF	LF	SF	EACH	REMARKS
WAUPACA, COUNTY	CTH W - 450 SOUTH OF MANSKE / GIVENS OVERPASS	31,799		10,751									GAP STH 96 INTERSECTION
WAUPACA COUNTY	450' SOUTH MANSKE / GIVENS OVERPASS TO STH 22/76	74587	162132										MAINLINE
WAUPACA COUNTY	USH 45 & CTH W									125			INTERSECTION
WAUPACA COUNTY	USH 45 & CTH D SOUTH JCT.					4	4				725	4	INTERSECTION
WAUPACA COUNTY	USH 45 & CONCRETE PLANT					3	3						INTERSECTION
WAUPACA COUNTY	USH 45 & STH 15 / T					4	4	4	145	240			MAINLINE
WAUPACA COUNTY	USH 45 & CTH D									578			START OF ONE WAY
WAUPACA COUNTY	USH 45 & STH 76					8	8			117		4	INTERSECTION
WAUPACA COUNTY	USH 45 & STH 54				2				76				
	SUBTOTALS:	106,386	162,132										
	TOTALS:	268	,518	10,751	2	19	19	4	221	1,060	725	8	

PROJECT NO: 1009-42-49 HWY: USH 45 COUNTY: WAUPACA MISCELLANEOUS QUANTITIES SHEET: **E**

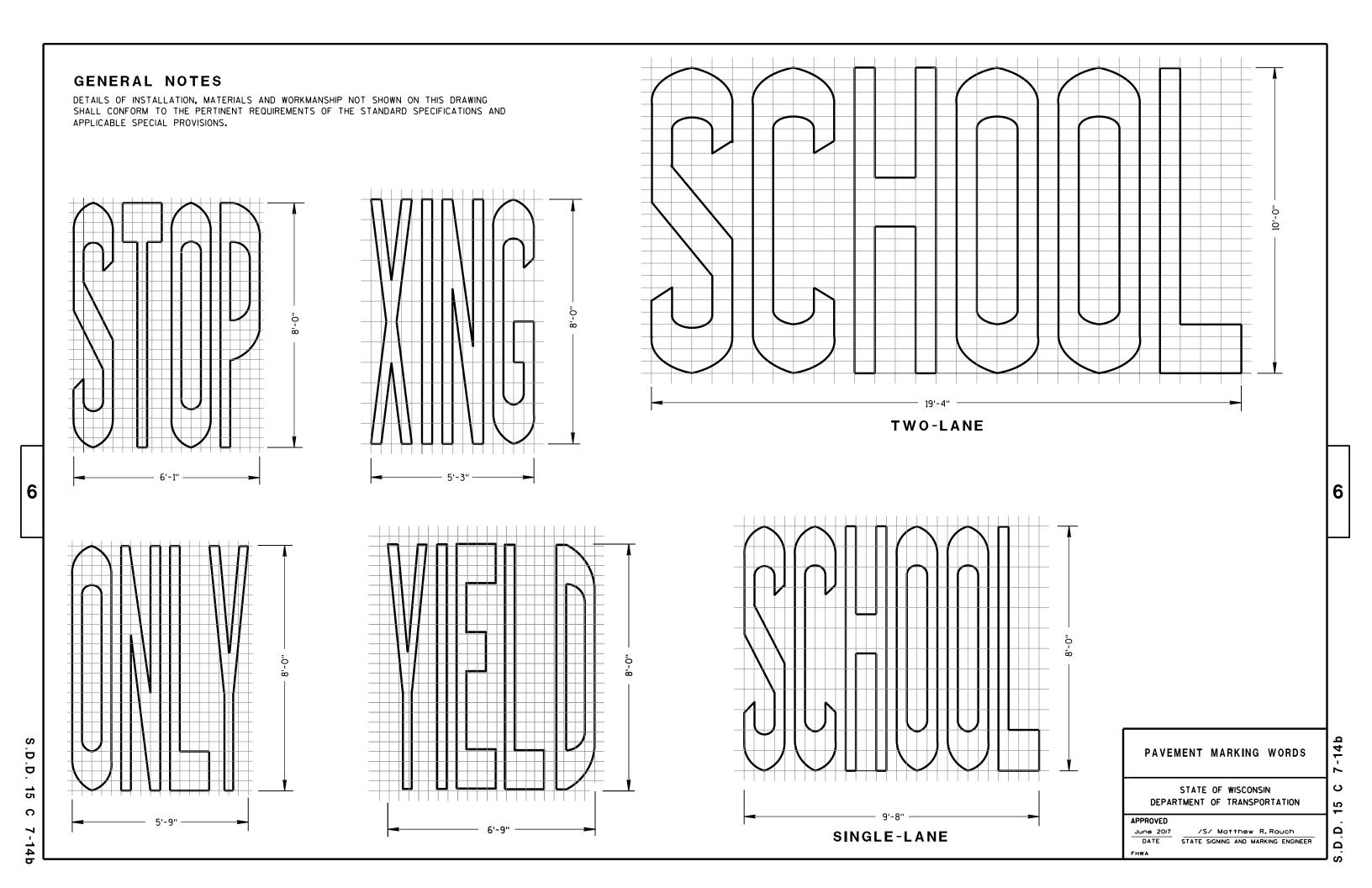
			-		MADIZII	NC								·
					MARKI	NG		1	T				1	
			1020	646.3020							6.7120	646.8020		
		LI	NE	LINE		646.5020			646.6120	DIA	GONAL	CONCRETE	646.8220	
		EP	OXY	EPOXY		ARROWS		646.5120	STOP LINE	EF	POXY	CORRUGATED	ISLAND NOSE	
		4-11	NCH	8-INCH	EPOXY	EPOXY	EPOXY	WORDS	EPOXY	12	-INCH	MEDIAN	EPOXY	
		YELLOW	WHITE	WHITE	TYPE 1	TYPE 2	TYPE 3	EPOXY	18-INCH	WHITE	YELLOW	EPOXY	YELLOW	
LOCATION		LF	LF	LF	EACH	EACH	EACH	EACH	LF	LF	LF	SF	EACH	REMARKS
ONEIDA, VILAS & IRON COUNTES	ONEIDA CO. LINE - USH 2	459,431	833,967	7,156										SKIP WEBER RD - CTH C
ONEIDA COUNTY	USH 51 @ ONEIDA COUNTY LINE										219			INTERSECTION
ONEIDA COUNTY	US 51 & CTH L					2		1		106				INTERSECTION
ONEIDA COUNTY	USH 51 @ CTH D					3		3		460		2112		INTERSECTION
ONEIDA COUNTY	US 51 & CTH D TO MINOCQUA BRIDGE					49		1			3388			MEDIAN
ONEIDA COUNTY	US 51 & MINOCQUA LOOP										114		3	MEDIAN
ONEIDA COUNTY	US 51 & FRONT STREET				2	3		5						MEDIAN
ONEIDA COUNTY	US 51 NB & MINOCQUA LOOP - 3RD AVE					56		10	195		672	480	14	INTERSECTION
ONEIDA COUNTY	US 51 NB & ON STH 70 SOUTH JCT					4		4	56	928		690	2	MEDIAN / MAINLINE
VILAS COUNTY	STH 70 NORTH JCT WITH USH 51					1		1				580		INTERSECTION
IRON COUNTY	US 51 NB & STH 47 SOUTH								24					INTERSECTION
IRON COUNTY	US 51 NB & STH 77					3	3	3						INTERSECTION
IRON COUNTY	US 51 SB & HOTEL ENTRANCE					2		2						INTERSECTION
IRON COUNTY	US 51 SB & REST AREA					1		1						INTERSECTION
	SUBTOTALS:	459,431	833,967		2	124	3			1,494	4,393			
	TOTALS:		3,398	7,156		129		31	275		5,887	3862	19	

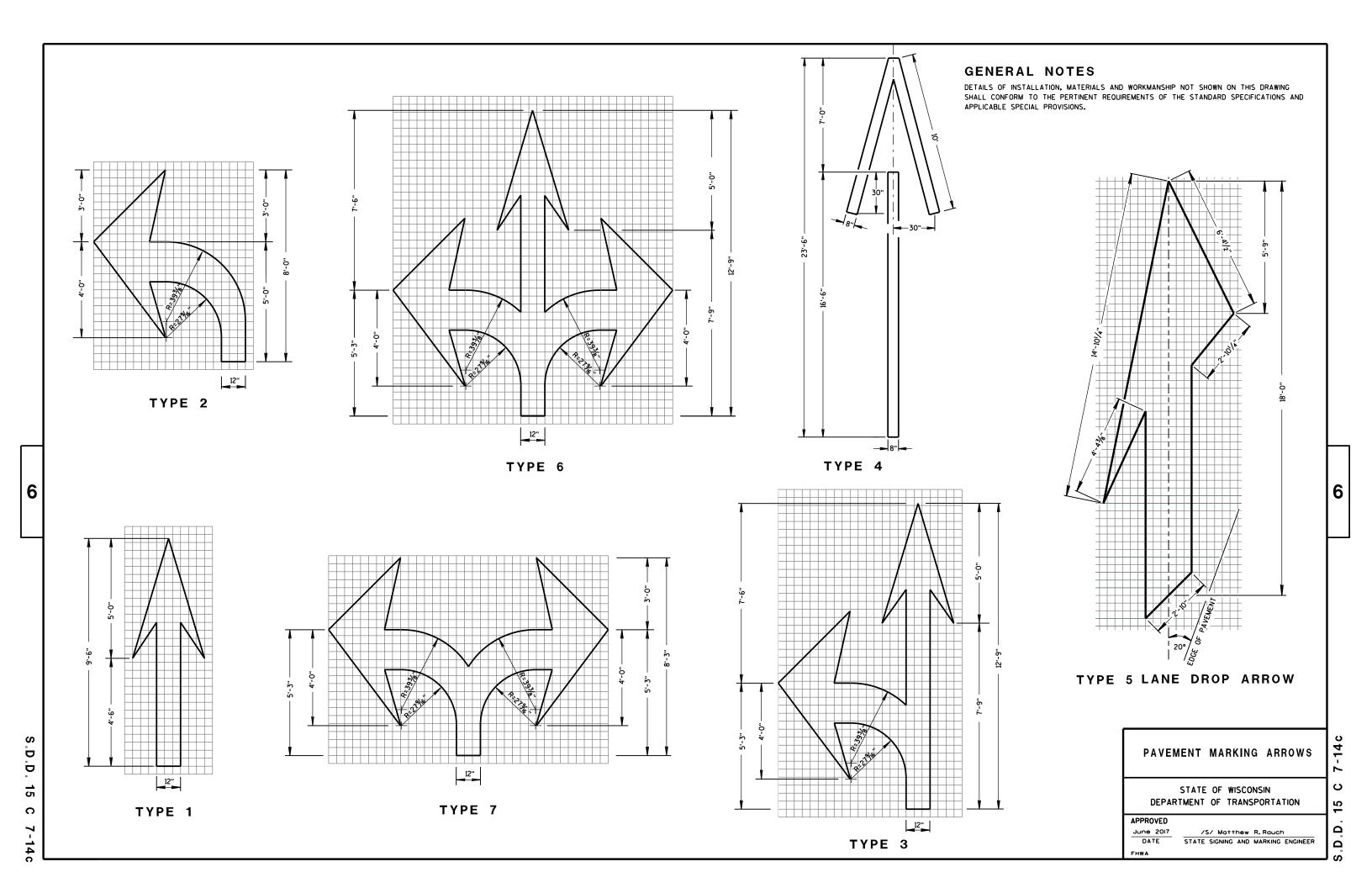
PROJECT NO: 1009-42-49 HWY: USH 51 COUNTY: ONEIDA, VILAS & IRON MISCELLANEOUS QUANTITIES SHEET: **E**

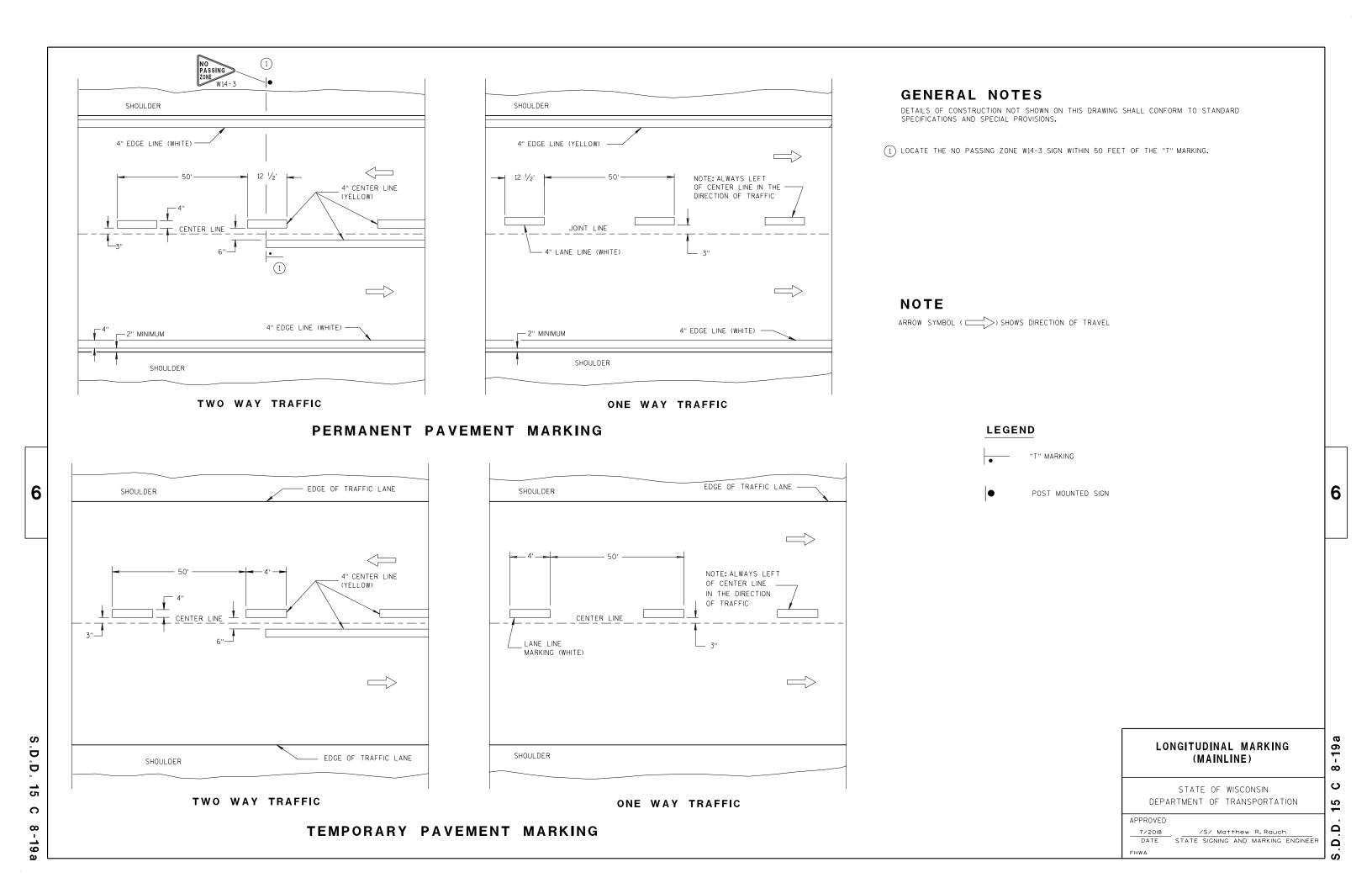
Standard Detail Drawing List

15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-05B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-05C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-03A	PAVEMENT MARKING (RAMPS AND GORES)
15C31-03B	PAVEMENT MARKING MAJOR SPLIT FREEWAY TO FREEWAY
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15C35-03B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-03C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)

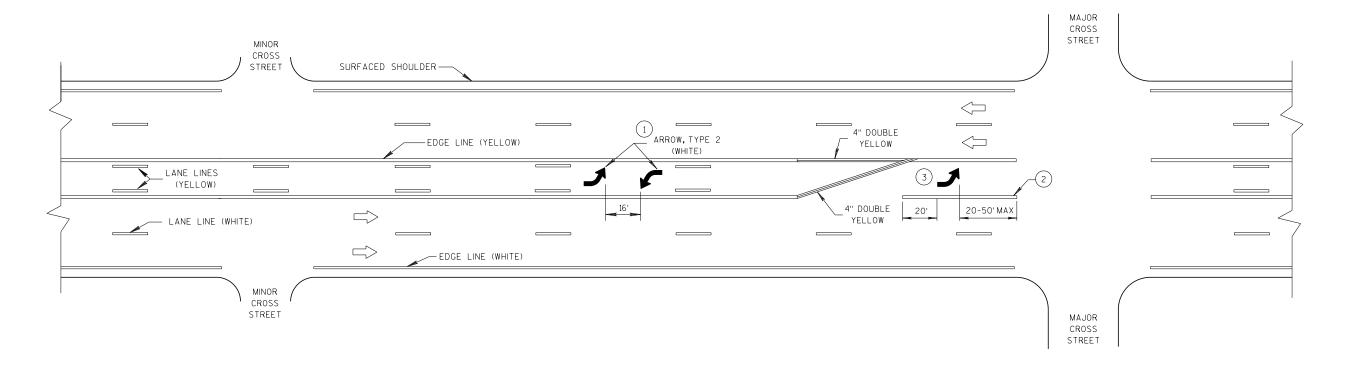
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- 1 A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- 2 8" WHITE
- (3) TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT
- DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES) 6

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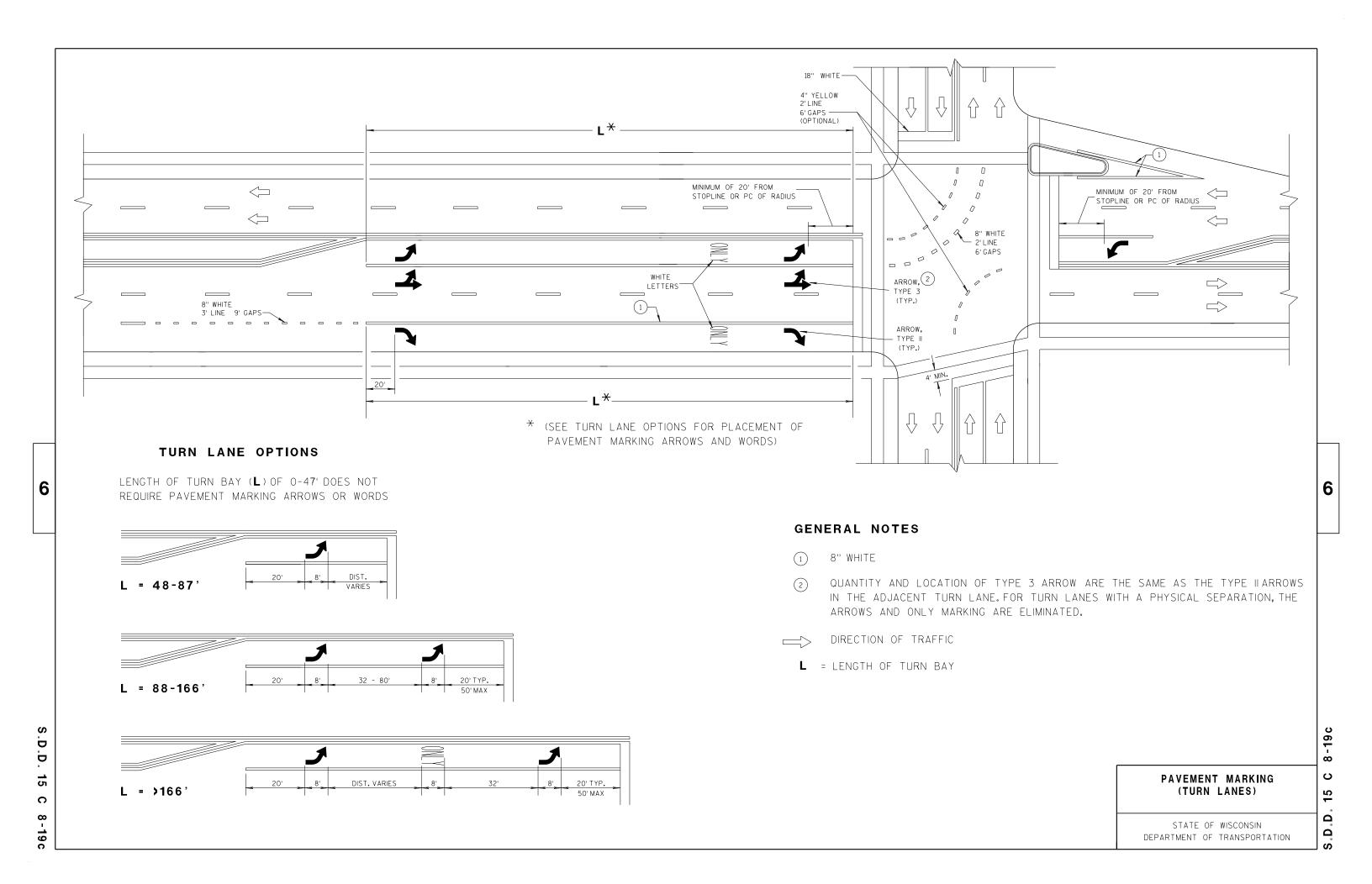
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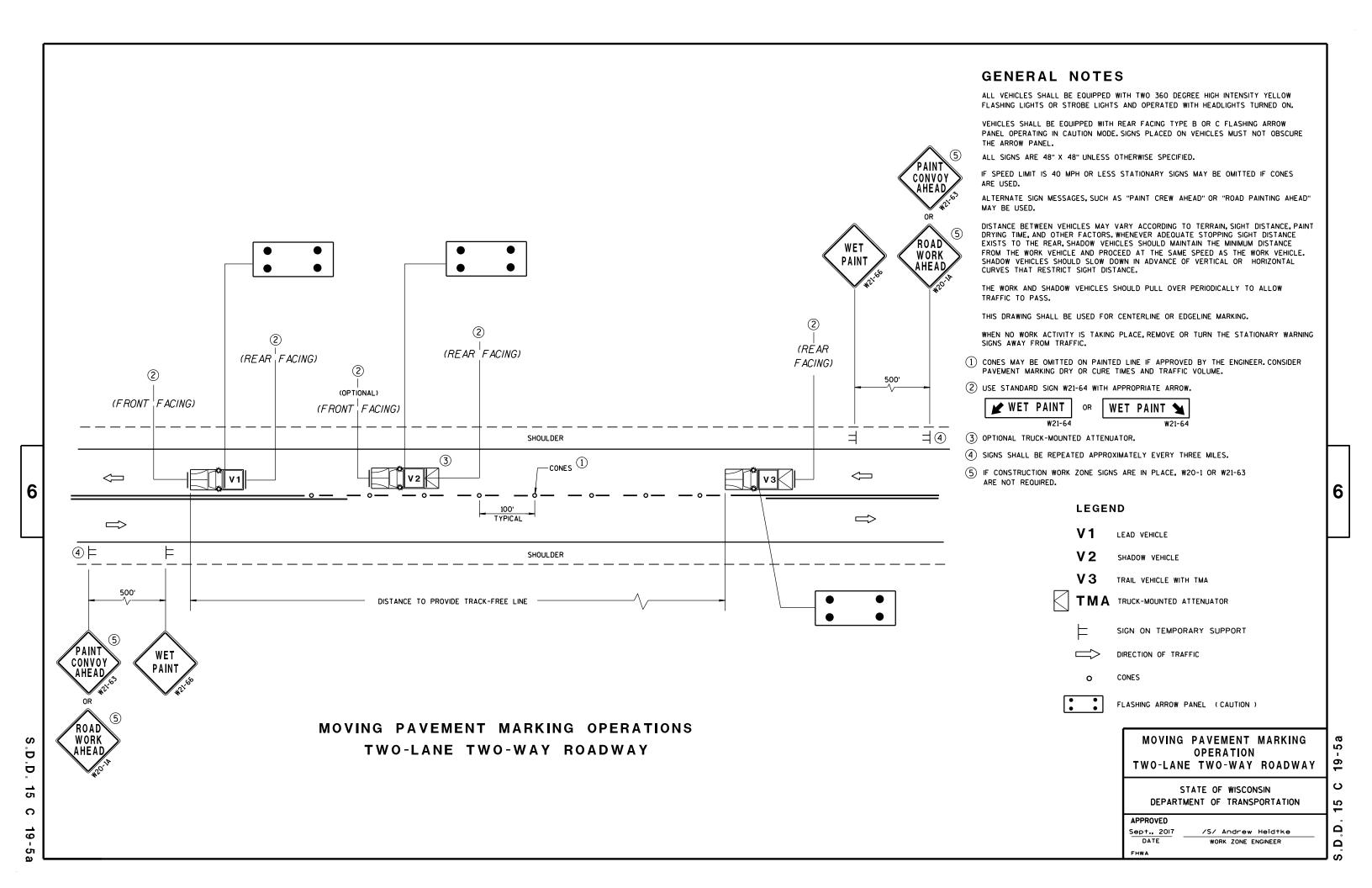
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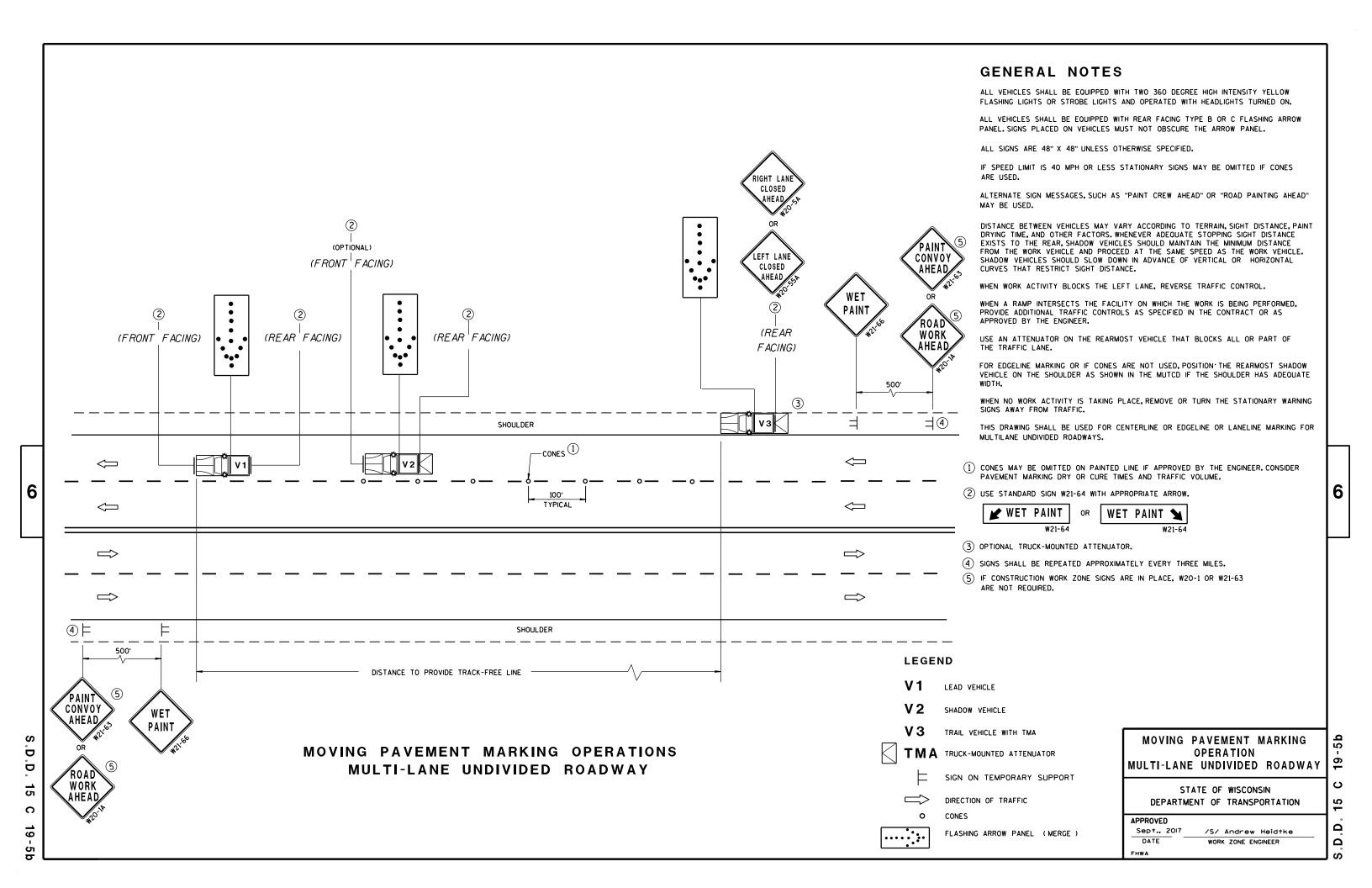
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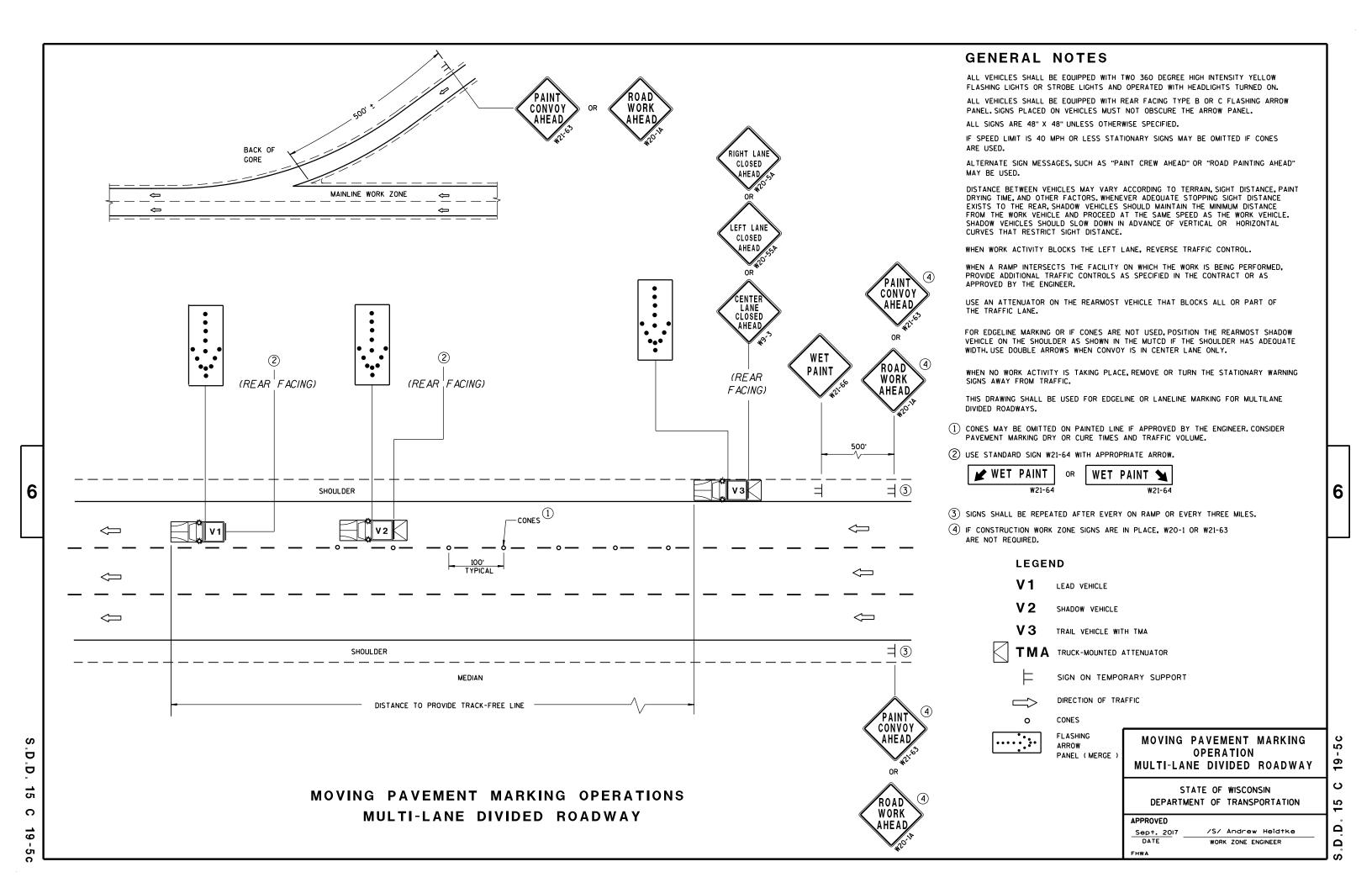
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

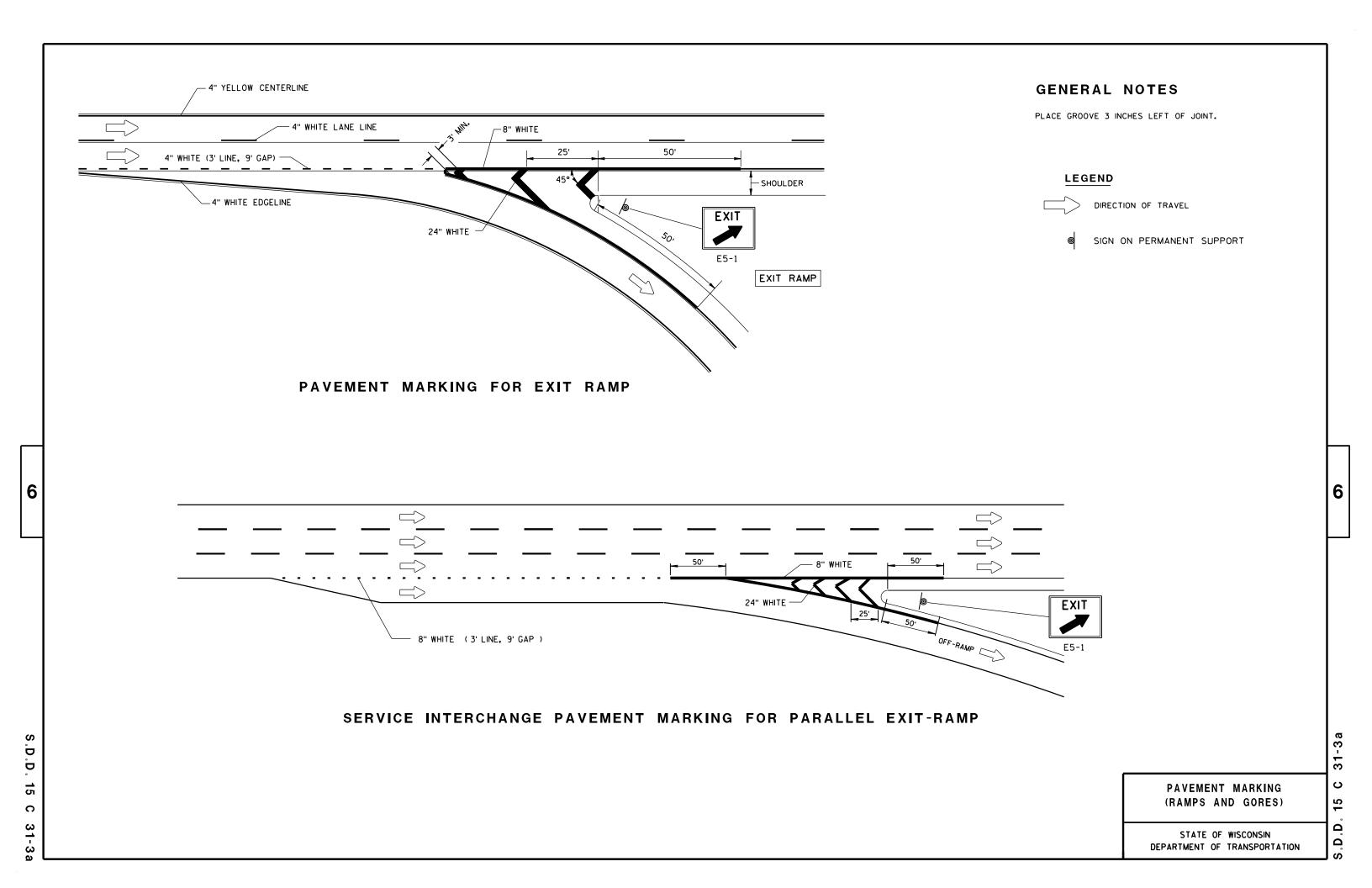
15 C 8-19b

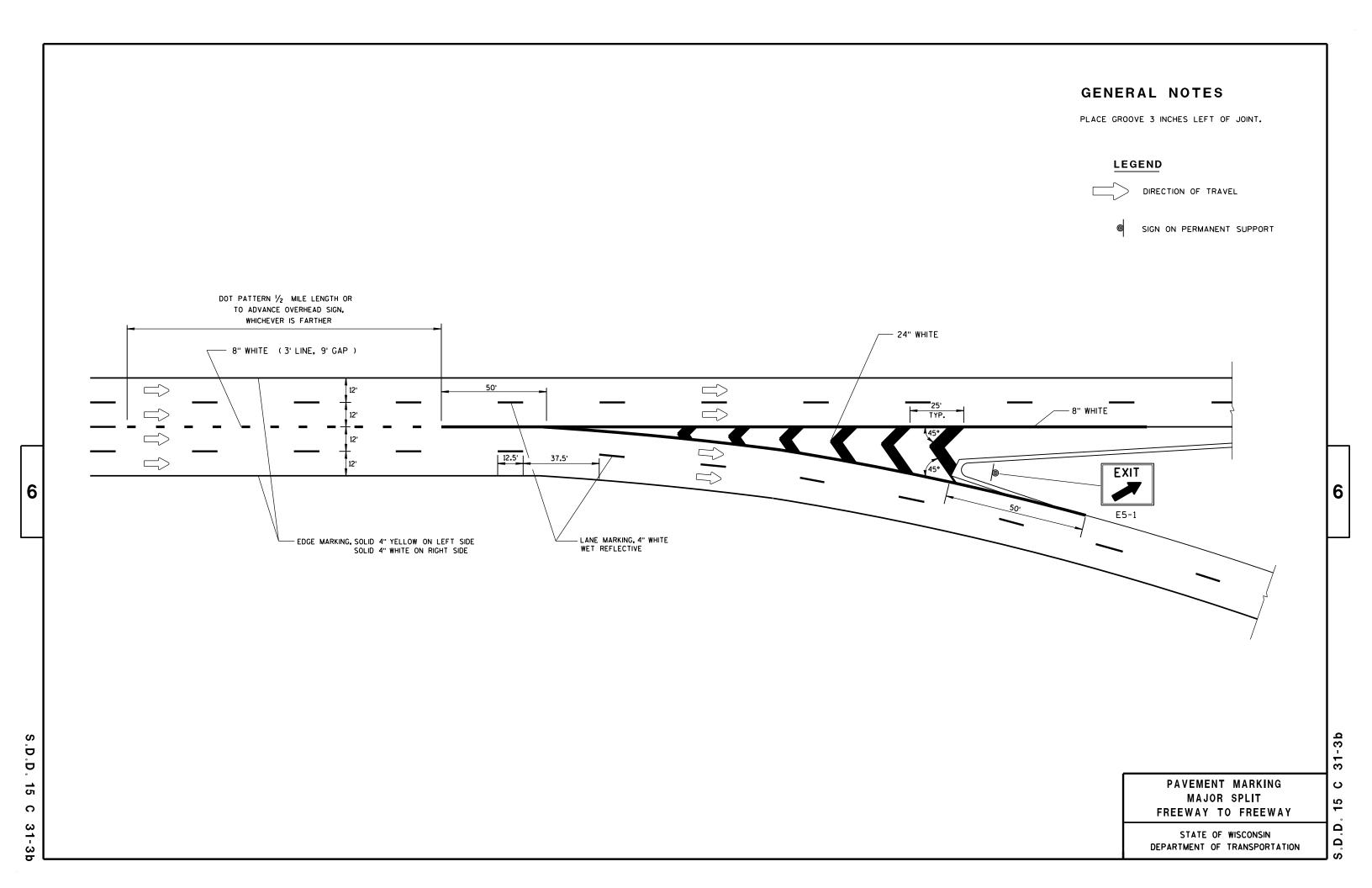


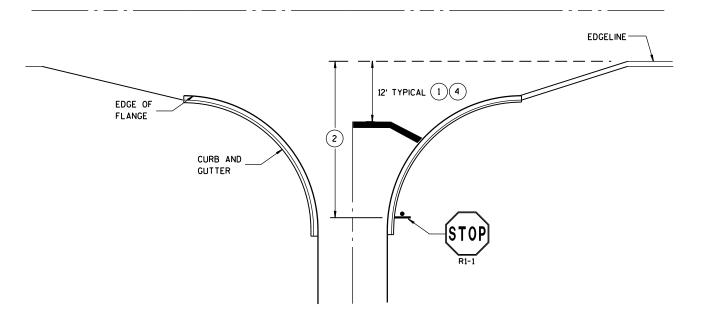








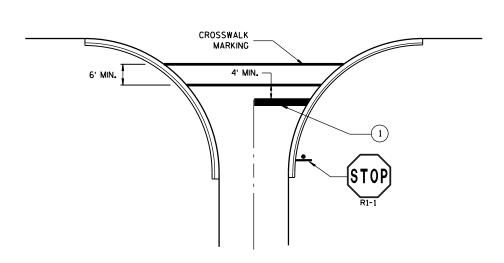




8" CHANNELIZATION WHITE FLANGELINE (EXTENSION) WHITE EDGELINE 4' TYPICAL (4)

TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



- EDGELINE 12' TYPICAL (1)

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

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

STOP LINE AND CROSSWALK **PAVEMENT MARKING**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED						
Sept., 2017		/S/ I	Matth	ew R.	Ro	uch
DATE	STATE	SIGNIN	G AND	MARKI	NG	ENGINEER
FHWA						

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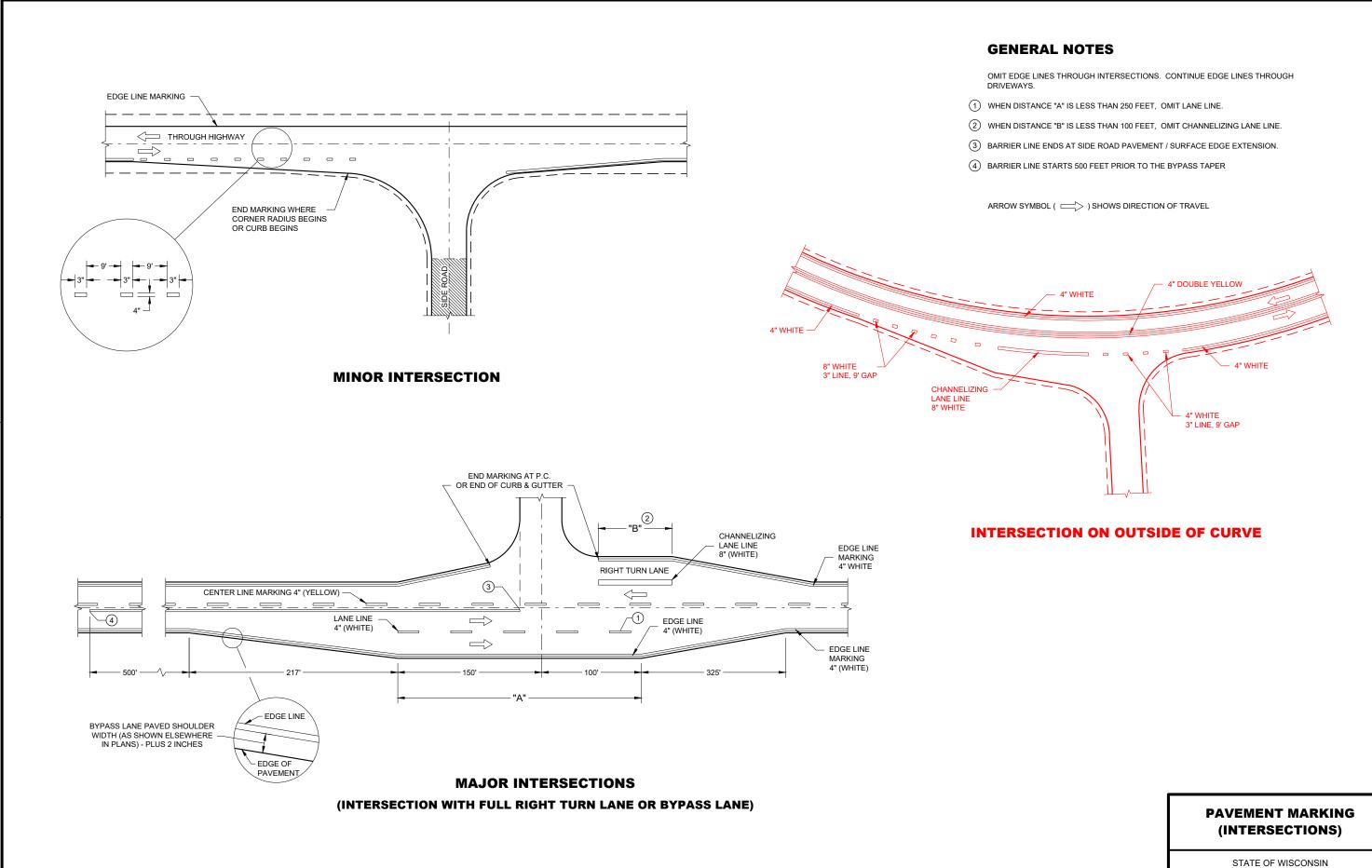
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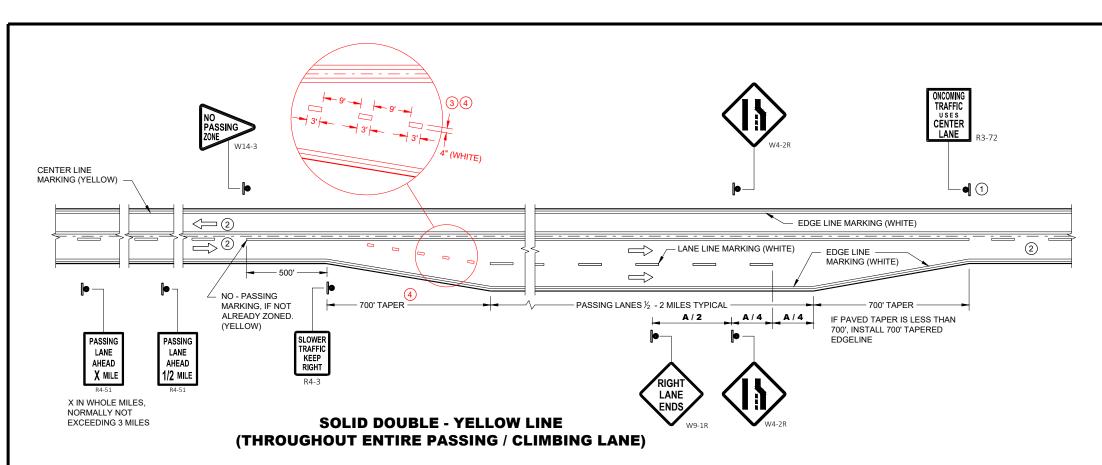
DEPARTMENT OF TRANSPORTATION

15C35

SDD

03b

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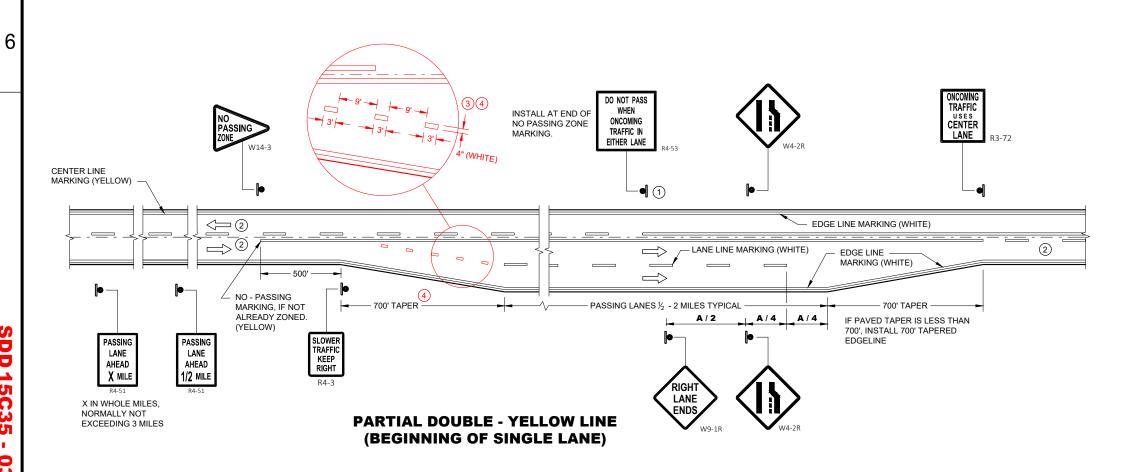
GENERAL NOTES

- \bigodot 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 / CLIMBLING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

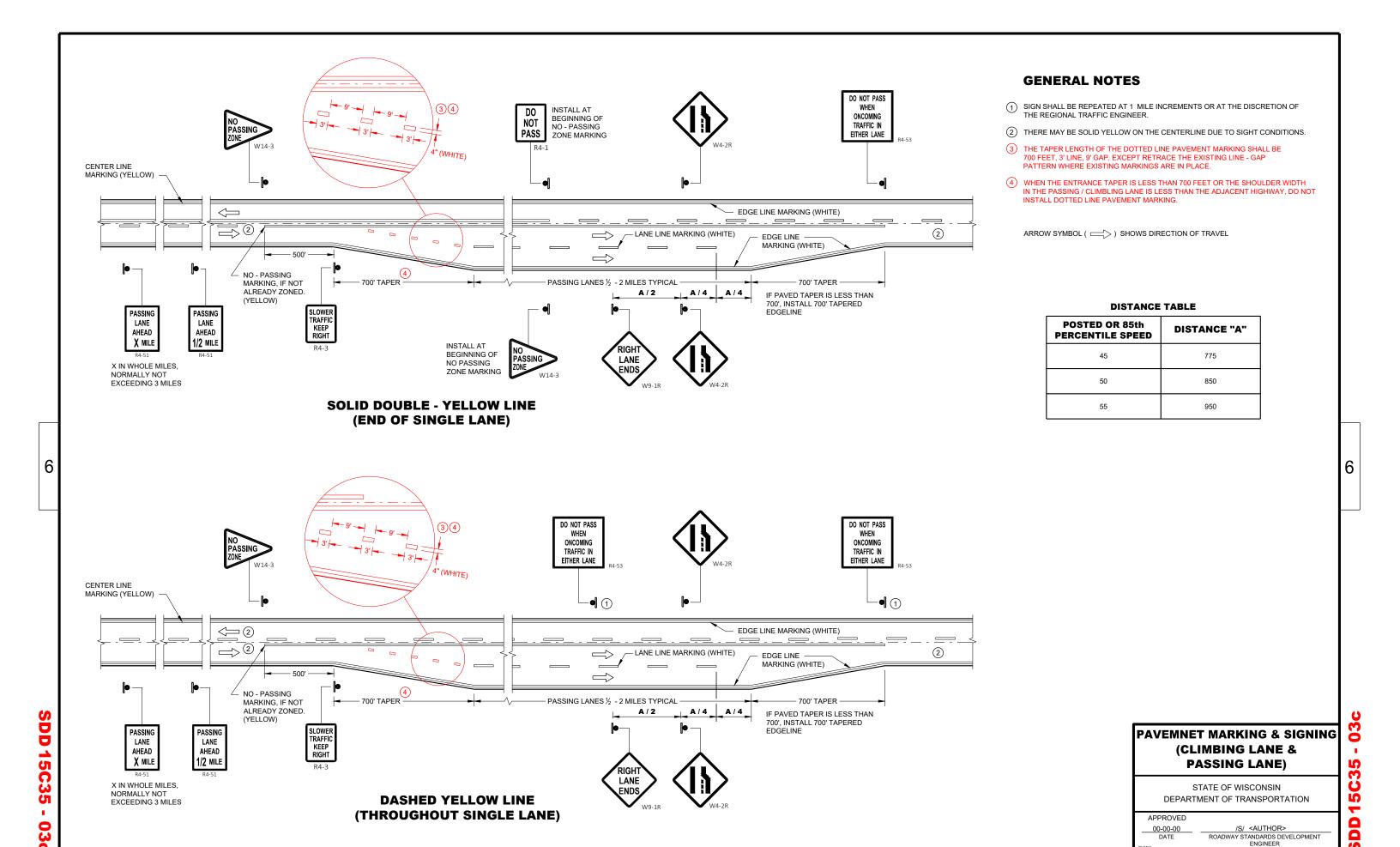
DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	850
55	950



PAVEMENT MARKING & SIGNING (CLIMBING LANE &

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov