

LAX
PROJECT ID: 7710-01-65 & 7710-02-60
COUNTY: JACKSON & MONROE

MAY 2019

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	Gross Sections
TOTAL SHEETS =		68



DESIGN DESIGNATION

A.A.D.T.	2010	=	900
A.A.D.T.	2039	=	1200
D.H.V.		=	9.0
D.D.		=	60/40
T.		=	10.8%
DESIGN SPEED		=	60 MPH
ESALS		=	250,000

CONVENTIONAL SYMBOLS

PLAN	PROFILE
CORPORATE LIMITS	GRADE LINE
PROPERTY LINE	ORIGINAL GROUND
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH
EXISTING RIGHT OF WAY	GRADE ELEVATION
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)
SLOPE INTERCEPT	UTILITIES
REFERENCE LINE	ELECTRIC
EXISTING CULVERT	FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)	GAS
COMBUSTIBLE FLUIDS	SANITARY SEWER
	STORM SEWER
	TELEPHONE
	WATER
MARSH AREA	UTILITY PEDESTAL
	POWER POLE
	TELEPHONE POLE
WOODED OR SHRUB AREA	

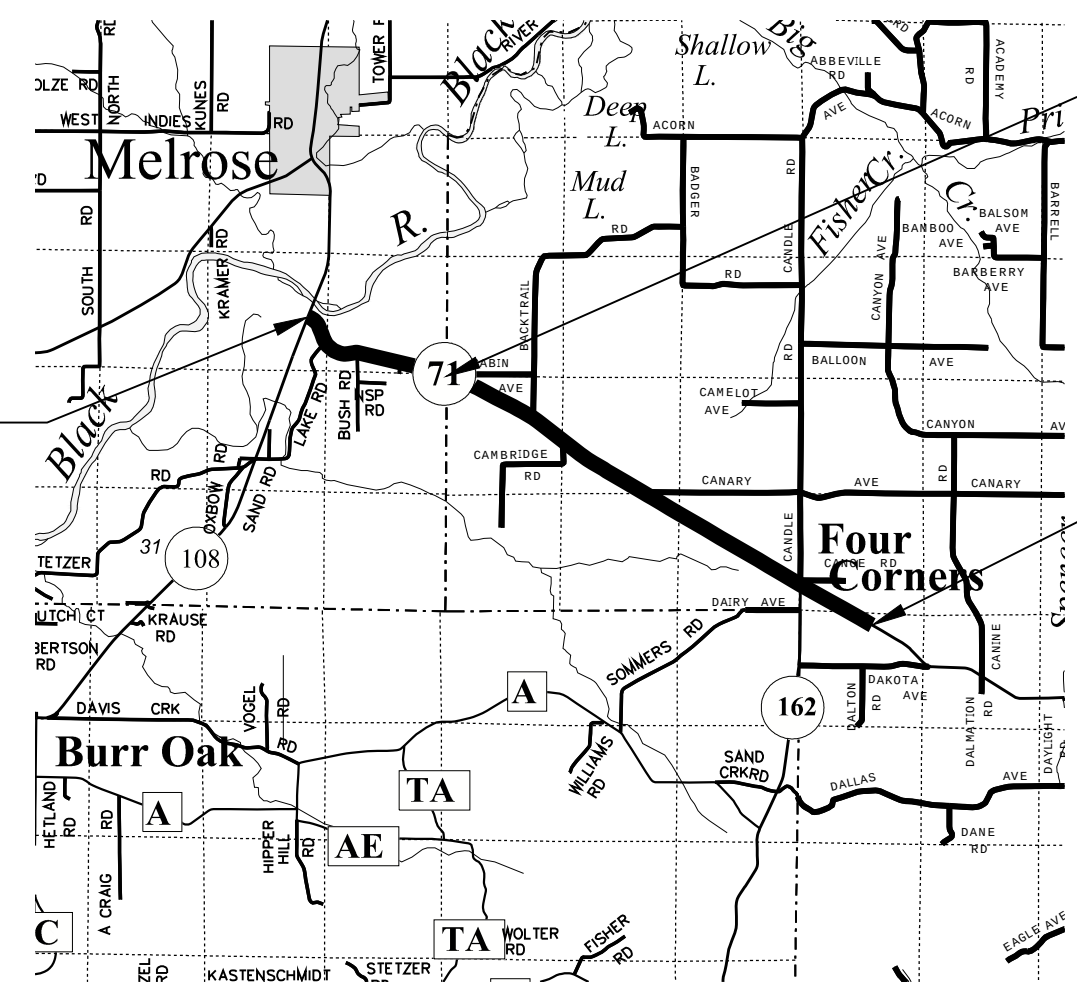
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT

MELROSE - SPARTA
STH 108 TO EAST COUNTY LINE
STH 71
JACKSON COUNTY

MELROSE - SPARTA
WEST COUNTY LINE TO DAKOTA AVE
STH 71
MONROE COUNTY

STATE PROJECT NUMBER
7710-01-65

STATE PROJECT NUMBER
7710-02-60



LAYOUT

SCALE	0	1 MI
7710-01-65 LENGTH OF CENTERLINE =	1.338 MI	
7710-02-60 LENGTH OF CENTERLINE =	4.183 MI	
TOTAL NET LENGTH OF CENTERLINE =	5.521 MI	

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MONROE COUNTY, NAD83 (2018), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7710-01-65	WISC 2019328	1
7710-02-60	WISC 2019284	1

END PROJECT 7710-01-65
BEGIN PROJECT 7710-02-60
STATION 71+50
X = 583850.417
Y = 436608.683

END PROJECT 7710-02-60
STATION 292+35
X = 602910.294
Y = 425526.676

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	Surveyor _____ WISCONSIN DOT
Designer	_____ JERED LEX
Project Manager	_____ ANTHONY VANDER WIELEN
Regional Examiner	_____ SW REGION
Regional Supervisor	_____ JOSEPH GREGAS III
APPROVED FOR THE DEPARTMENT	
DATE: 3/18/2019	_____ (Signature)

STANDARD ABBREVIATIONS

CE	COMMERCIAL ENTRANCE
CL	CENTERLINE
PE	PRIVATE ENTRANCE
REQ'D	REQUIRED
TYP	TYPICAL

GENERAL NOTES

- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT WHEN PERFORMING IMMEDIATE WORK IN THE AREA. ACCESS SHALL BE PROVIDED DURING ALL NON-WORKING HOURS.
- CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND PLACING SEED, FERTILIZER AND EROSION MAT ON ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY THEIR OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.
- ALL SAW CUTS TO BE MARKED OUT BY THE ENGINEER.
- THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
- HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN
- THE CONTRACTORS PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING OR PARKING LANE.

DESIGN CONTACTS

TONY VANDER WIELEN
PROJECT MANAGER
WISDOT SW REGION
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
608-789-7878
anthony.vanderwielen@dot.wi.gov

JERED LEX
PROJECT DESIGNER
WISDOT SW REGION
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
608-397-2221
jered.lex@dot.wi.gov

DNR LIAISON

KAREN KALVELAGE
ENVIRONMENTAL ANALYSIS & REVIEW SPECIALIST
WISCONSIN DEPT. OF NATURAL RESOURCES
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
608-785-9115
karen.kalvelage@wisconsin.gov



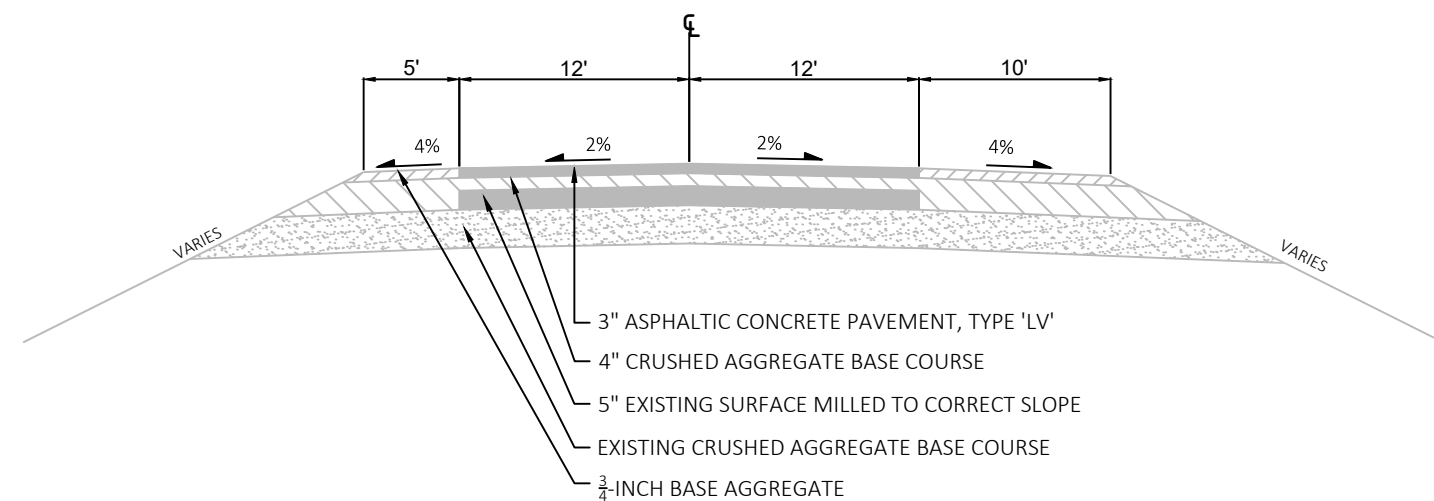
UTILITY CONTACTS

CENTURY LINK
333 N FRONT ST
LA CROSSE, WI 54601
RYAN NIEMEIER
BRIAN STELPLUGH
PHONE: (608) 796-5142
BRIAN.STELPLUGH@CENTURYLINK.COM

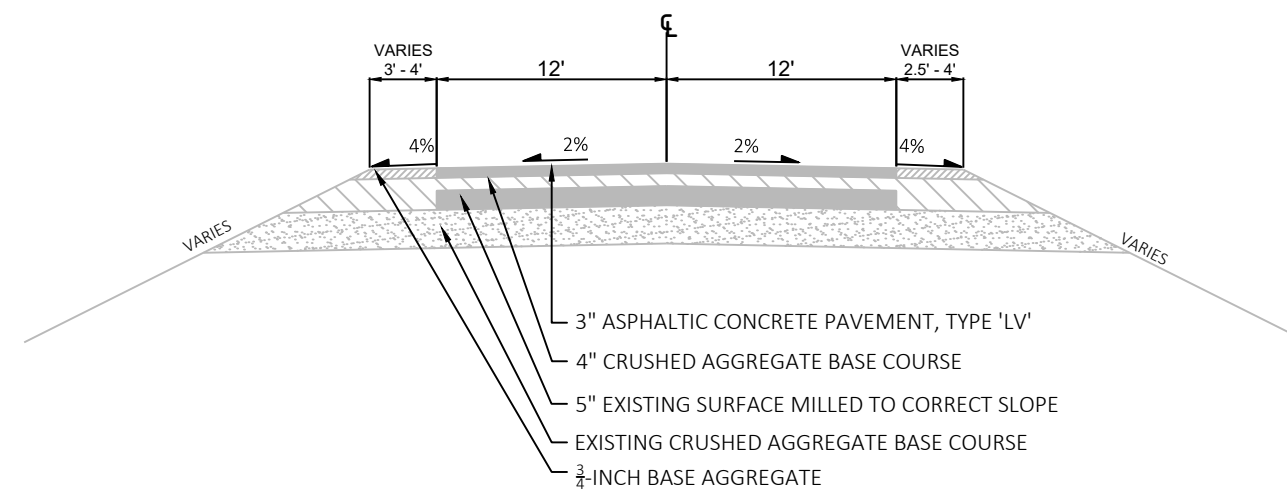
XCEL ENERGY - TRANSMISSION
1414 W HAMILTON AVE
PO BOX 8
EAU CLAIRE, WI 54702-0008
PAM TAYLOR
PHONE: (715) 737-1306
PAMELA.L.TAYLOR@XCELENERGY.COM

EXCEL ENERGY - DISTRIBUTION
1414 W HAMILTON AVE
PO BOX 8
EAU CLAIRE, WI 54702-0008
DAWN SCHULTZ
PHONE: (715) 737-2482
DAWN.SCHULTZ@EXCELENERGY.COM

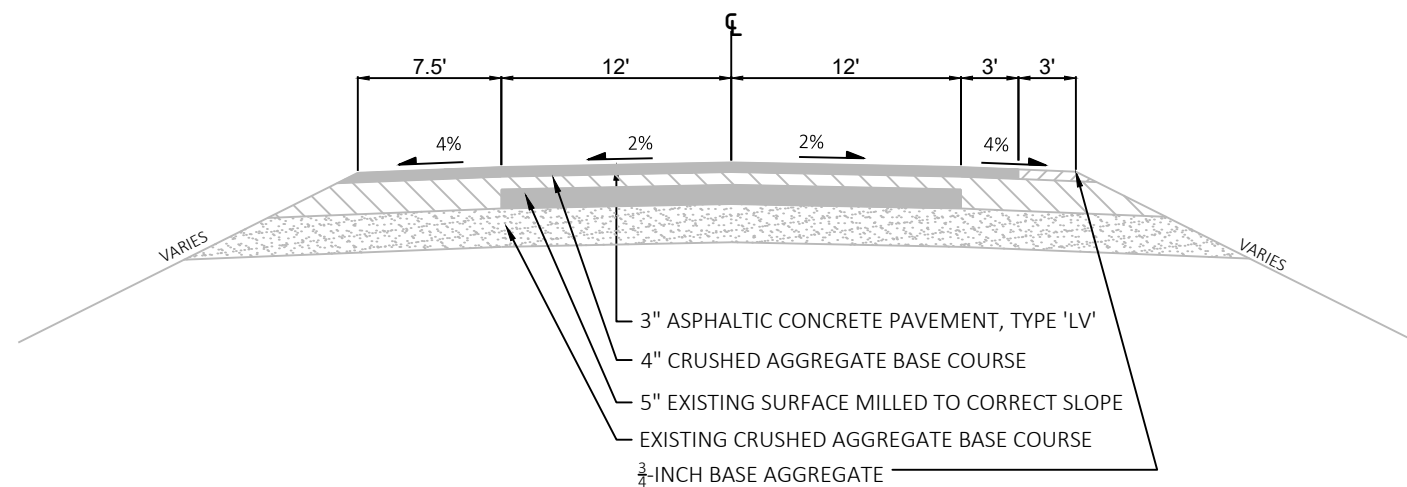
JACKSON ELECTRIC COOP
N6868 CO HWY F
PO BOX 546
BLACK RIVER FALLS, WI 54615
ERIC STEIEN
PHONE: (715) 284-5385
ESTEIEN@JACKELEC.COM



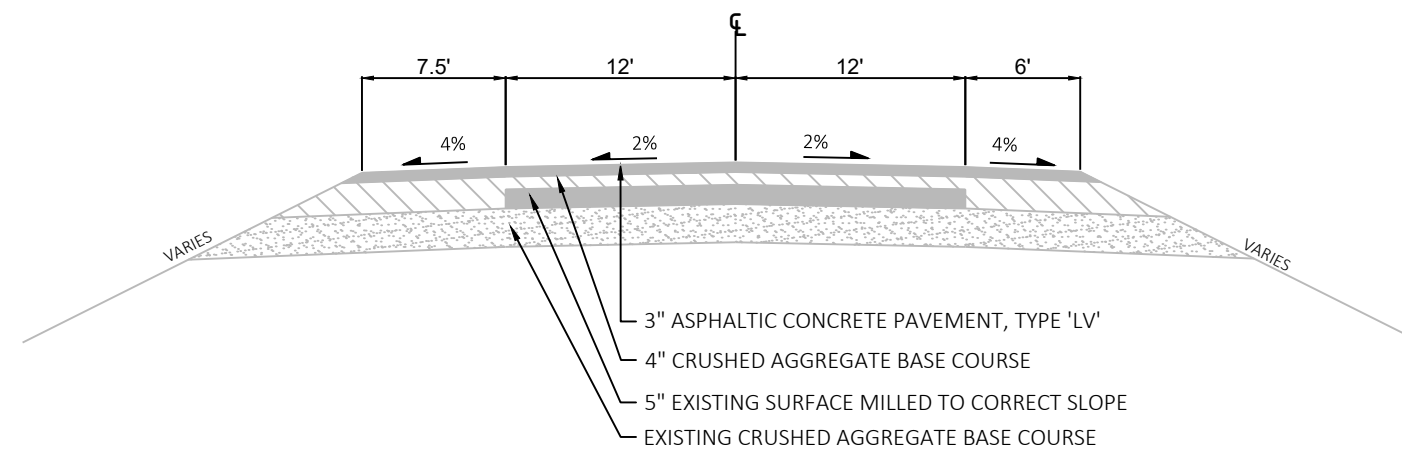
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STA 0+86 - 8+50



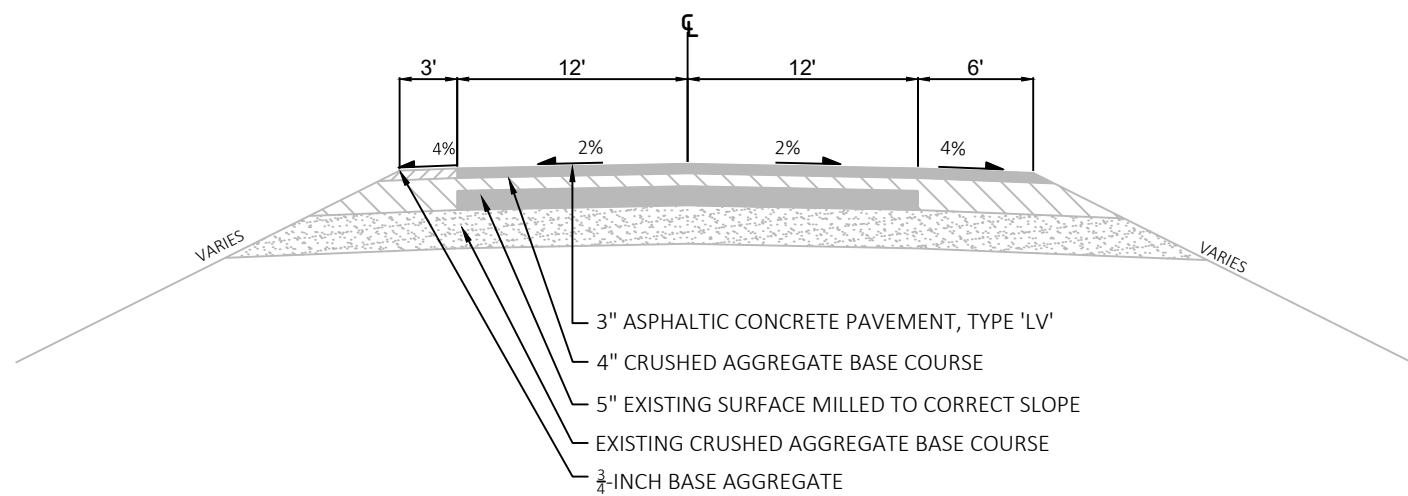
STH 71 EXISTING TYPICAL SECTION
STA 8+50 - 14+25
STA 30+60 - 71+50



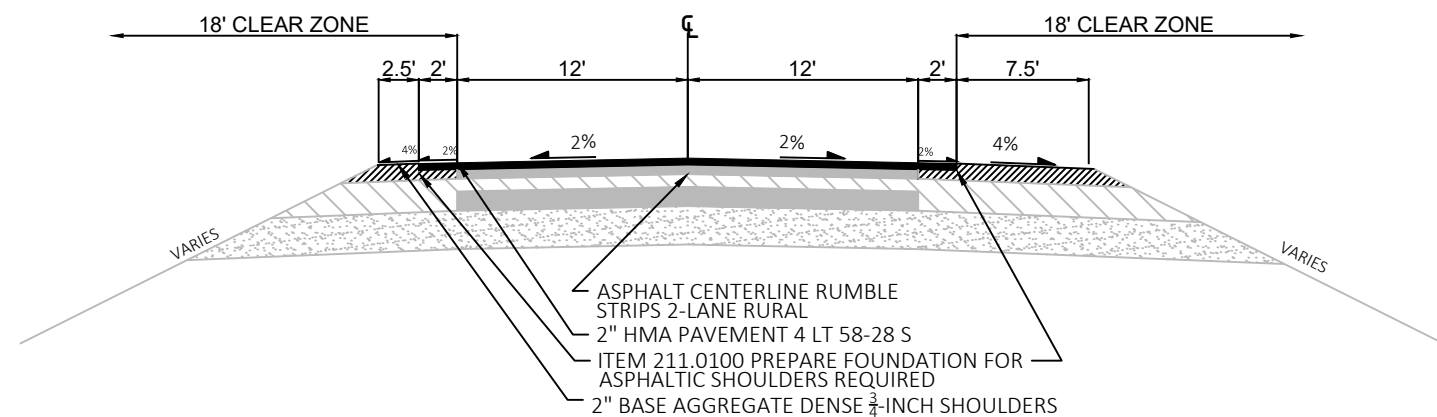
STH 71 EXISTING TYPICAL SECTION
STA 14+25 - 27+00



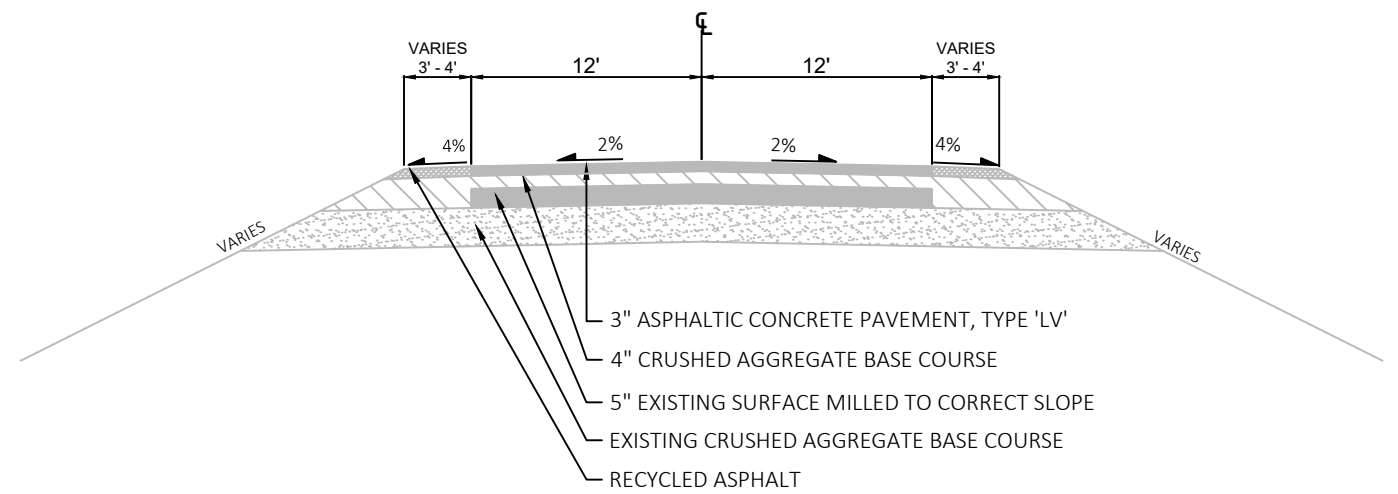
STH 71 EXISTING TYPICAL SECTION
STA 27+00 - 28+00



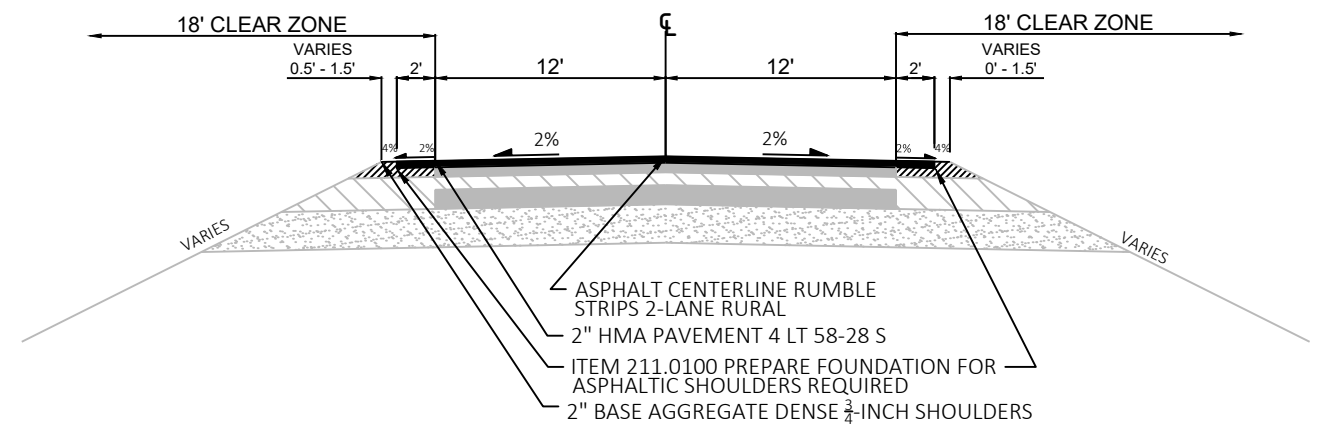
STH 71 EXISTING TYPICAL SECTION
STA 28+00 - 30+60



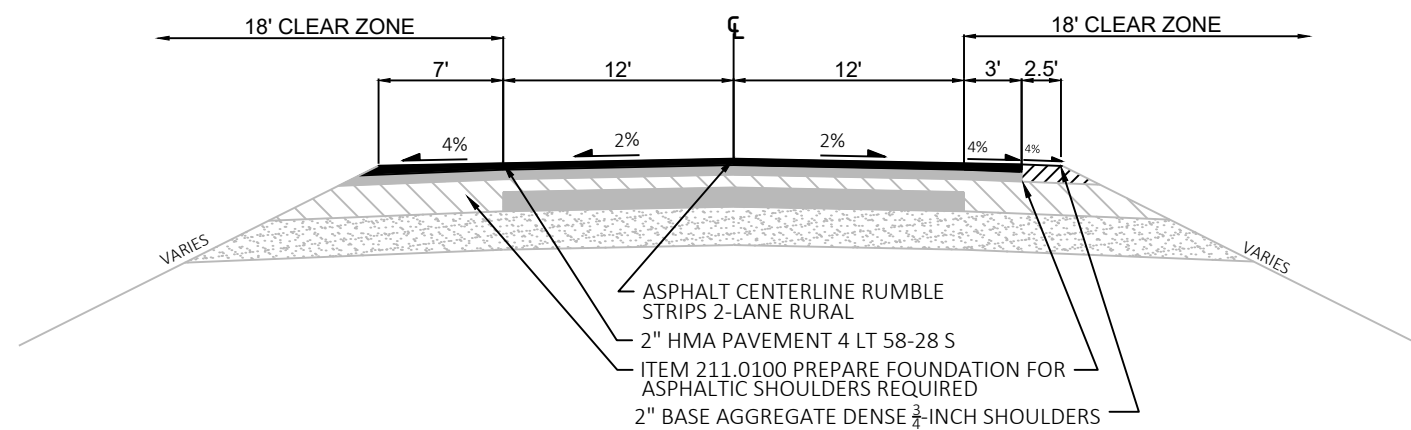
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STA 0+86 - 8+50



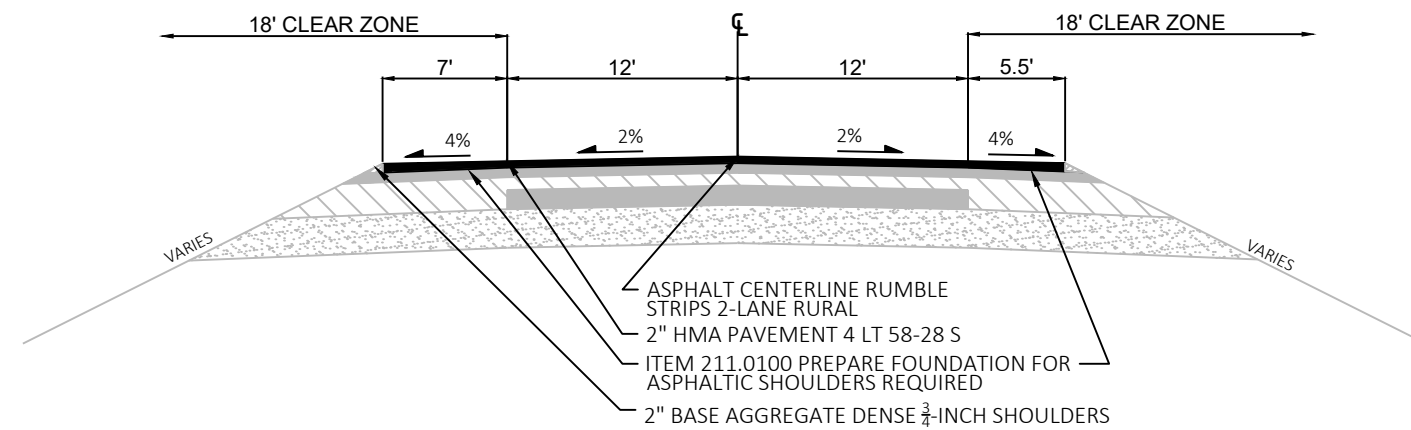
STH 71 EXISTING TYPICAL SECTION
STA 71+50 - 292+35



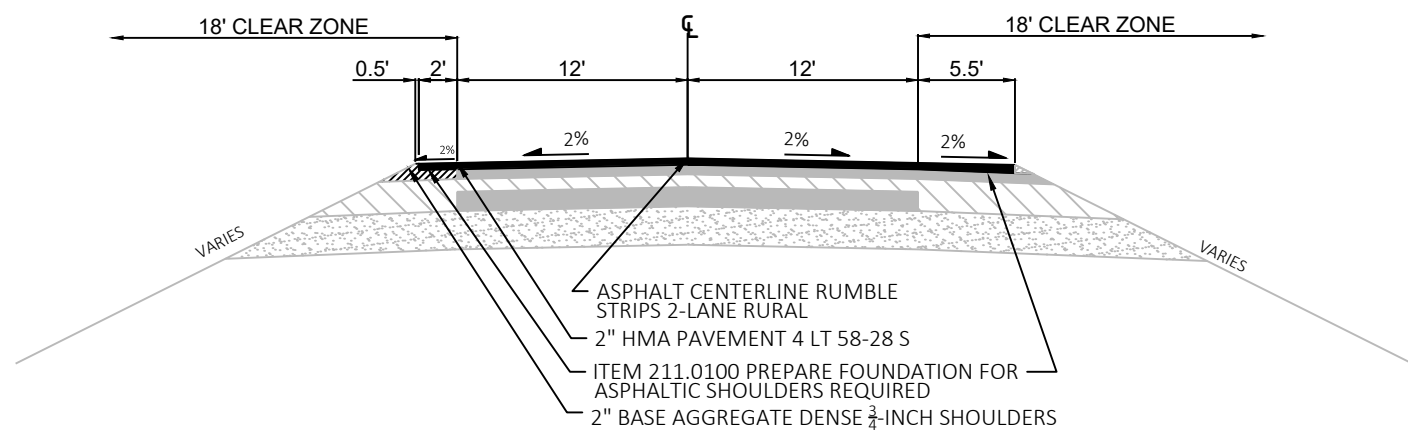
STH 71 PROPOSED TYPICAL SECTION
STA 8+50 - 14+25
STA 30+60 - 71+50



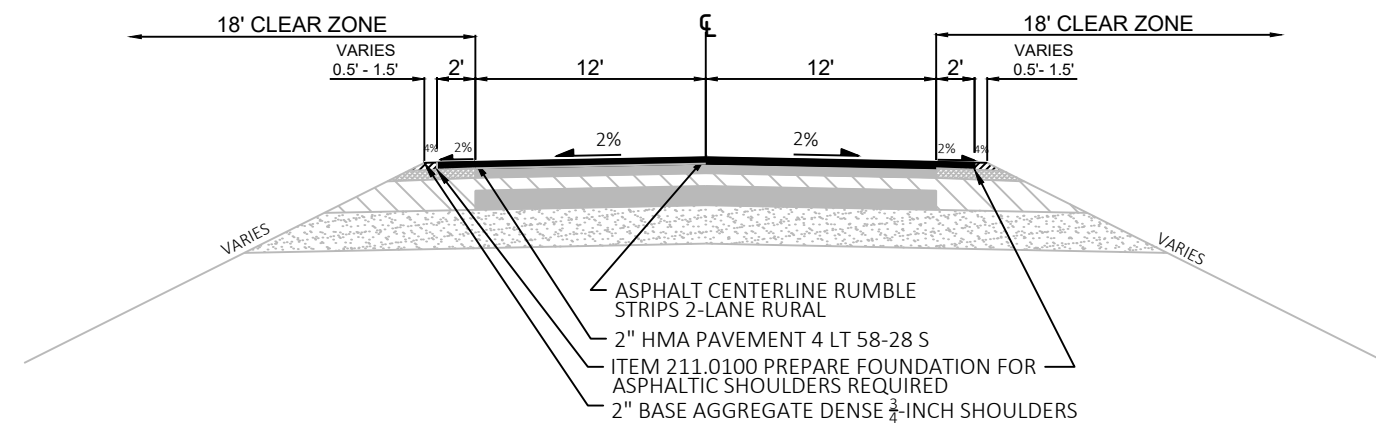
STH 71 PROPOSED TYPICAL SECTION
STA 14+25 - 27+00



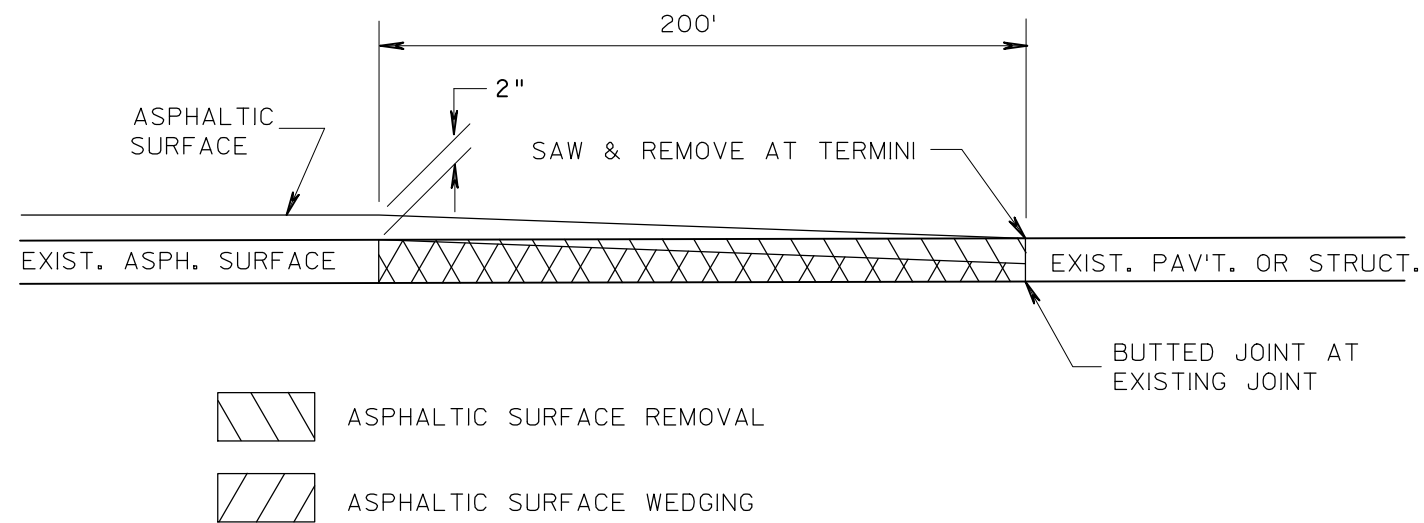
STH 71 PROPOSED TYPICAL SECTION
STA 27+00 - 28+00



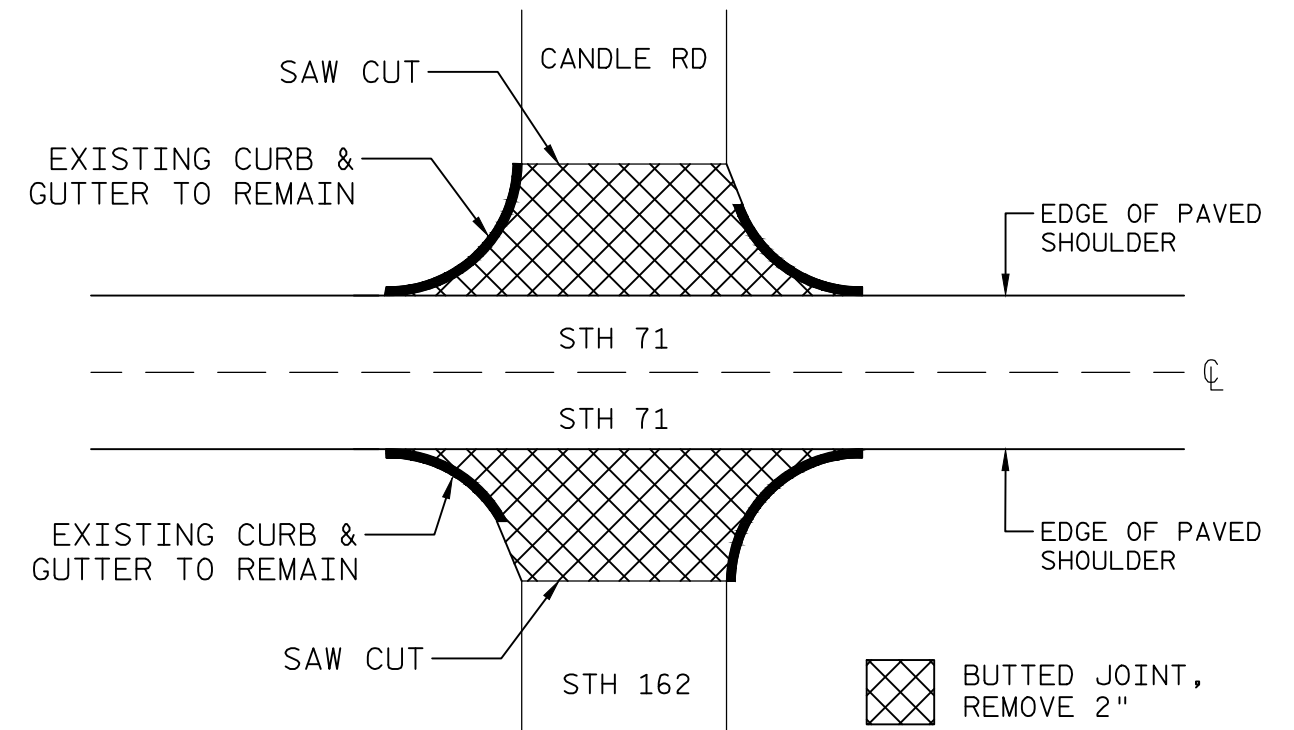
STH 71 PROPOSED TYPICAL SECTION
STA 28+00 - 30+60



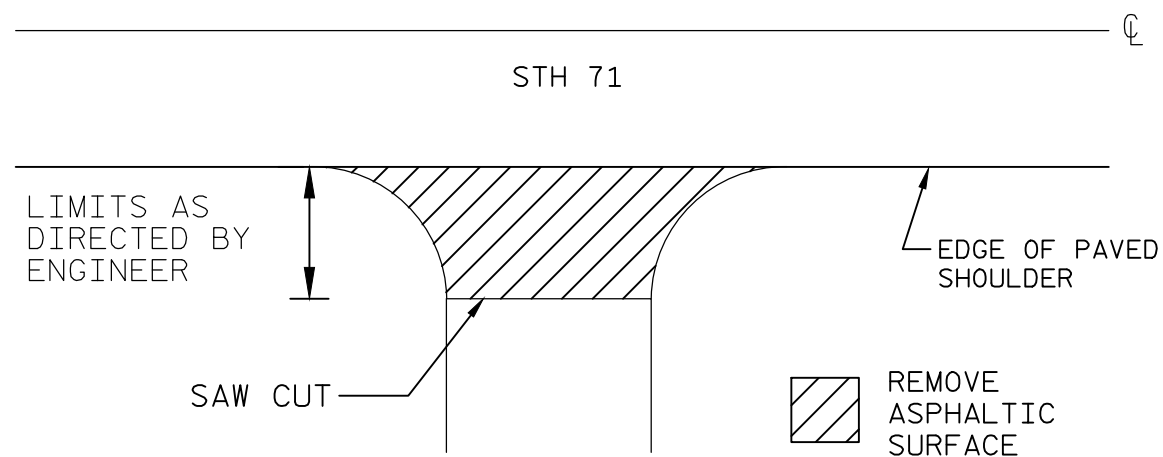
STH 71 PROPOSED TYPICAL SECTION
STA 71+50 - 292+35



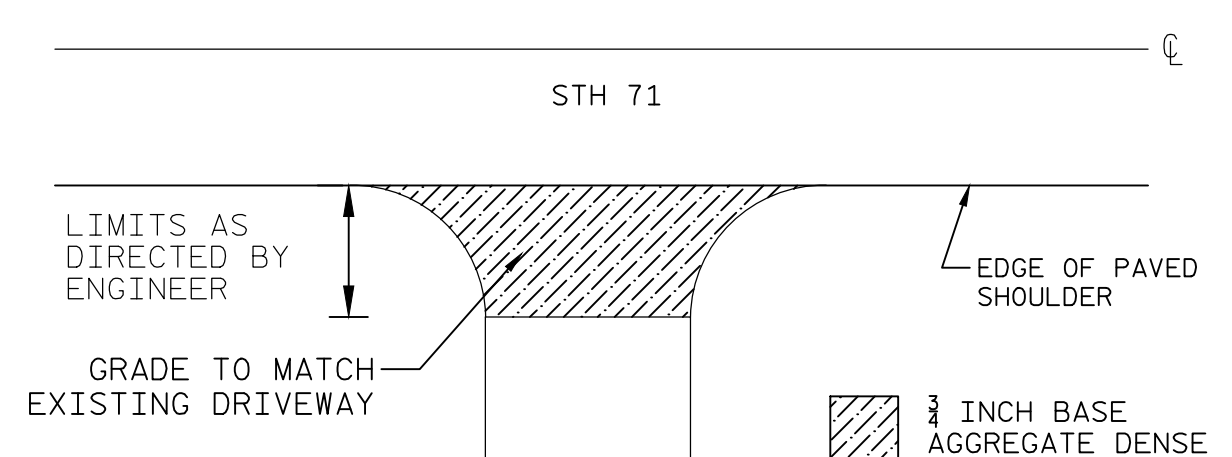
OVERLAP JOINT, BUTTED DETAIL



STH 162 INTERSECTION DETAIL



RURAL ASPHALT DRIVEWAY DETAIL



RURAL GRAVEL DRIVEWAY DETAIL



PROJECT NO: 7710-01-65	HWY: STH 71	COUNTY: JACKSON	PLAN DETAIL	SHEET	E
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PROJECT NO: 7710-02-60	HWY: STH 71	COUNTY: MONROE	PLAN DETAIL	SHEET	E
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2

2

PROJECT NO: 7710-02-60	HWY: STH 71	COUNTY: MONROE	PLAN DETAIL	SHEET	E
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CANDLE RD

BUTT JOINT REQUIRED, REMOVE 2"
EXISTING CURB & GUTTER TO REMAIN

PI: 254+21.10

SAW CUT REQD
XXX

PI: 256+85.96

PI: 259+59.96

245 250 255 260 265 270 275

XXXXX
SAW CUT REQD

ITEM 646.6120 MARKING
STOP LINE EPOXY 18-INCH

XXX
SAW CUT REQD

BUTT JOINT REQUIRED, REMOVE 2"
EXISTING CURB & GUTTER TO REMAIN

STH 162



BUTT JOINT REQUIRED

SAW CUT REQD

EP: 295+06.41

270 275 280 285 290 295

END PROJECT 7710-02-60
STA 292+35



PROJECT NO: 7710-02-60

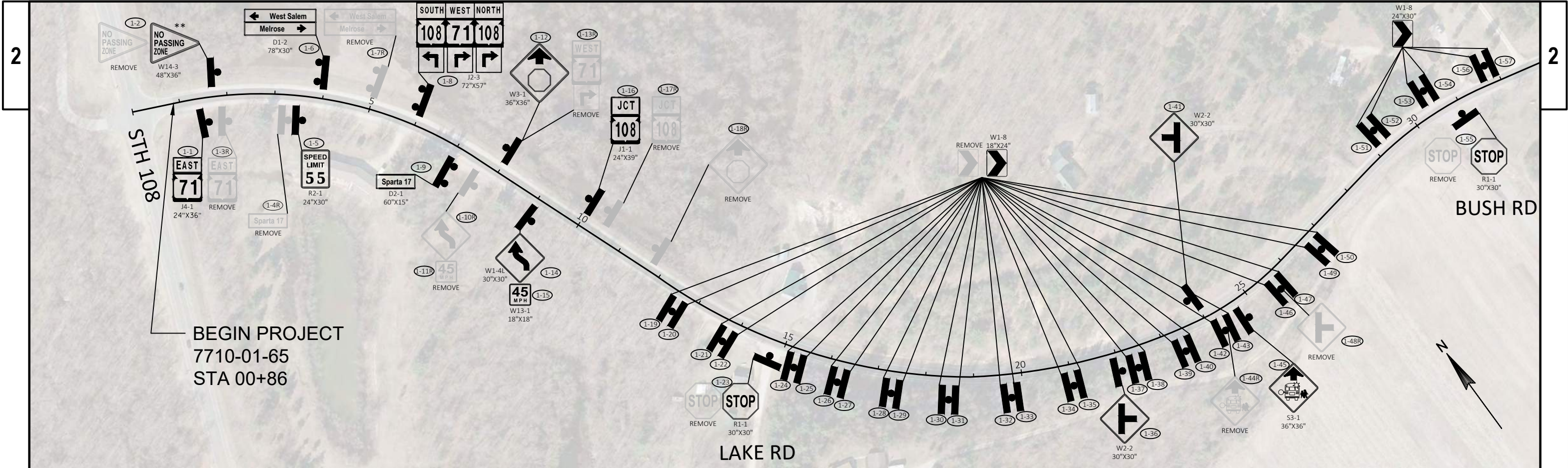
HWY: STH 71

COUNTY: MONROE

PLAN DETAIL

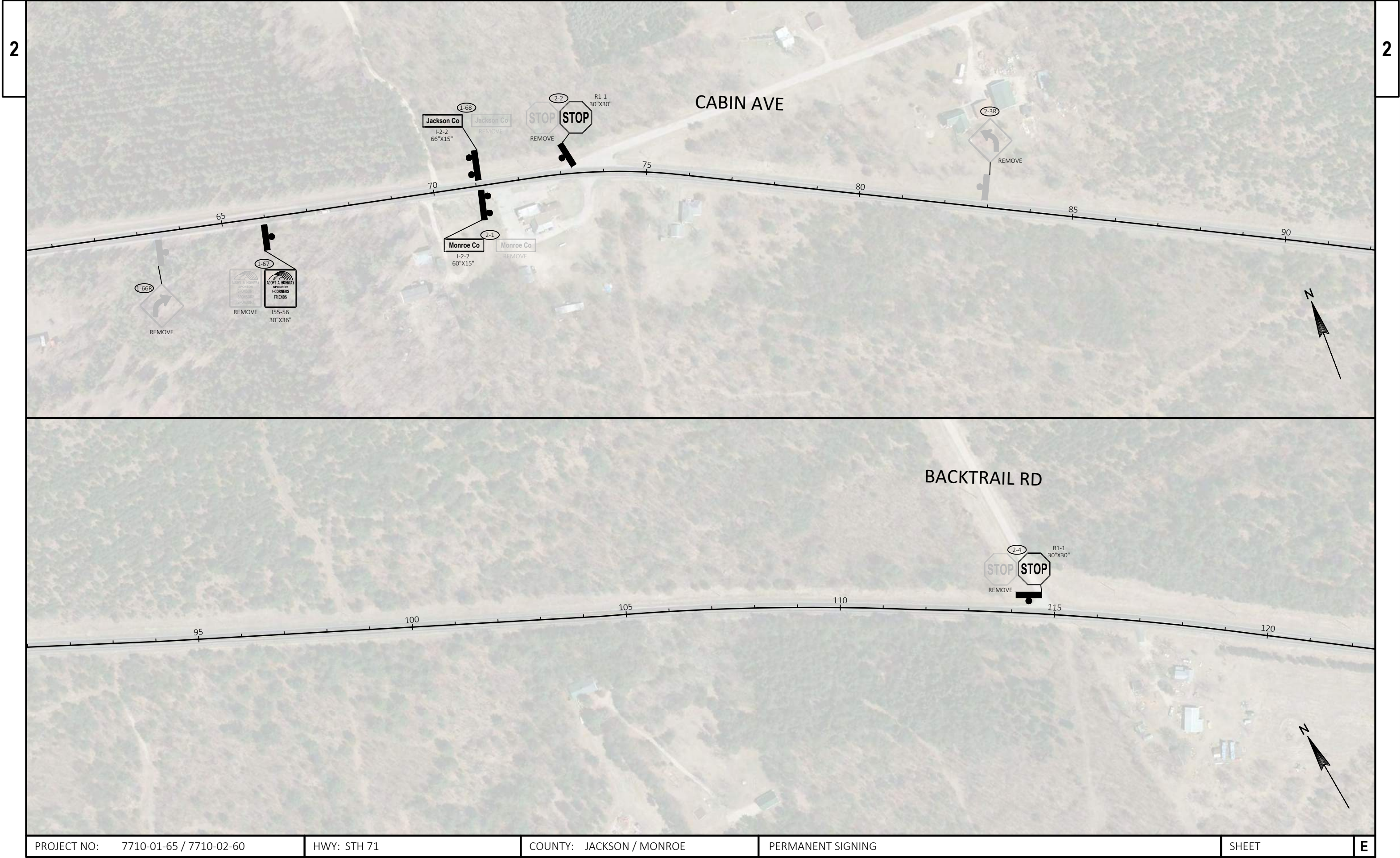
SHEET

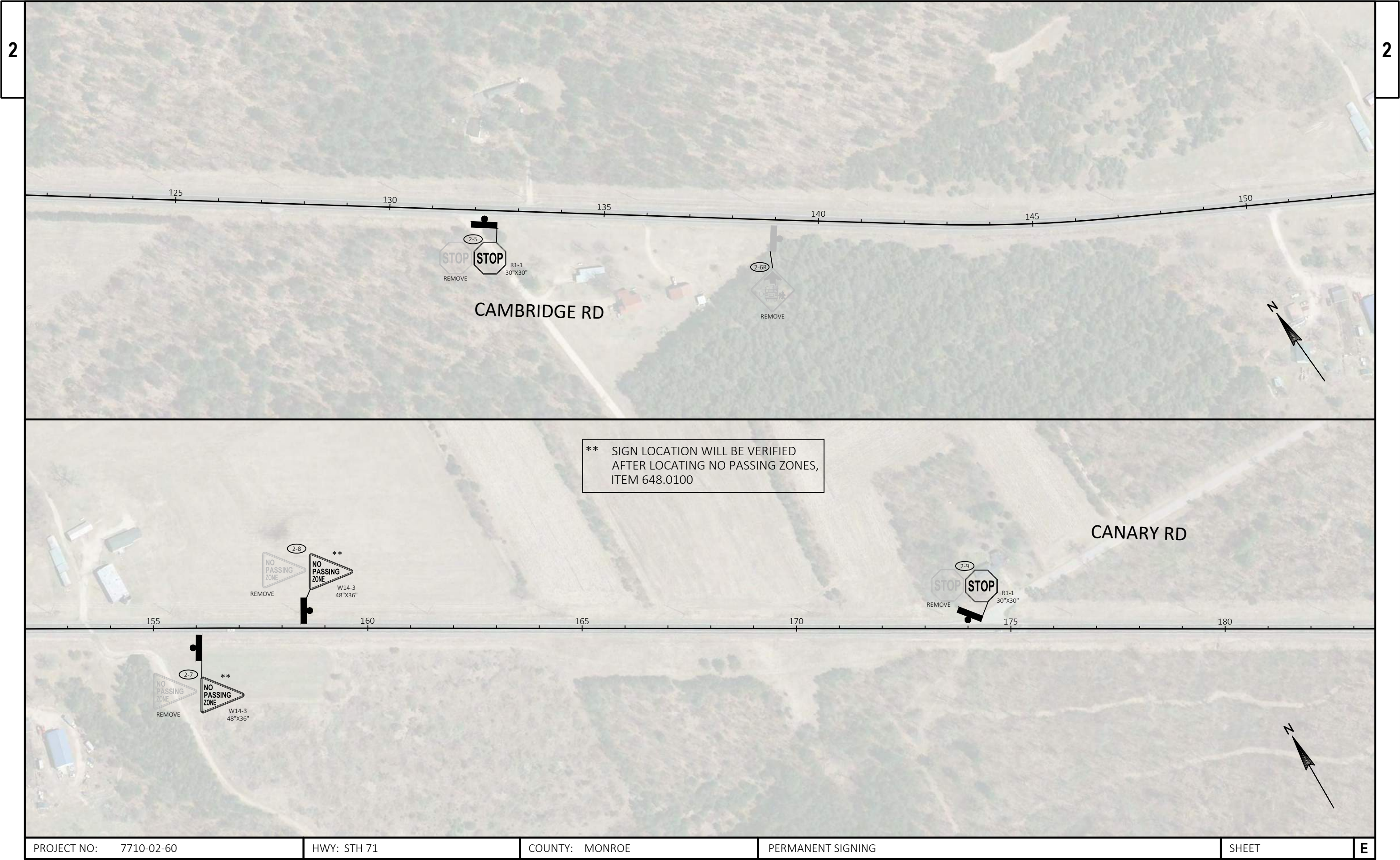
E

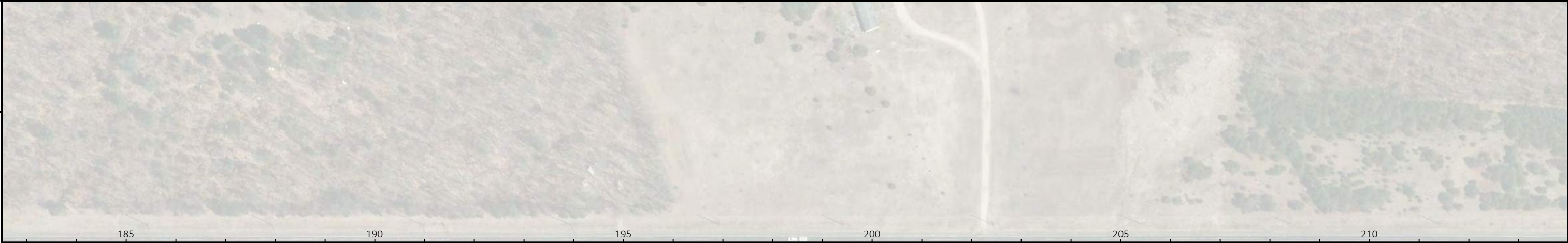


** SIGN LOCATION WILL BE VERIFIED
AFTER LOCATING NO PASSING ZONES,
ITEM 648.0100

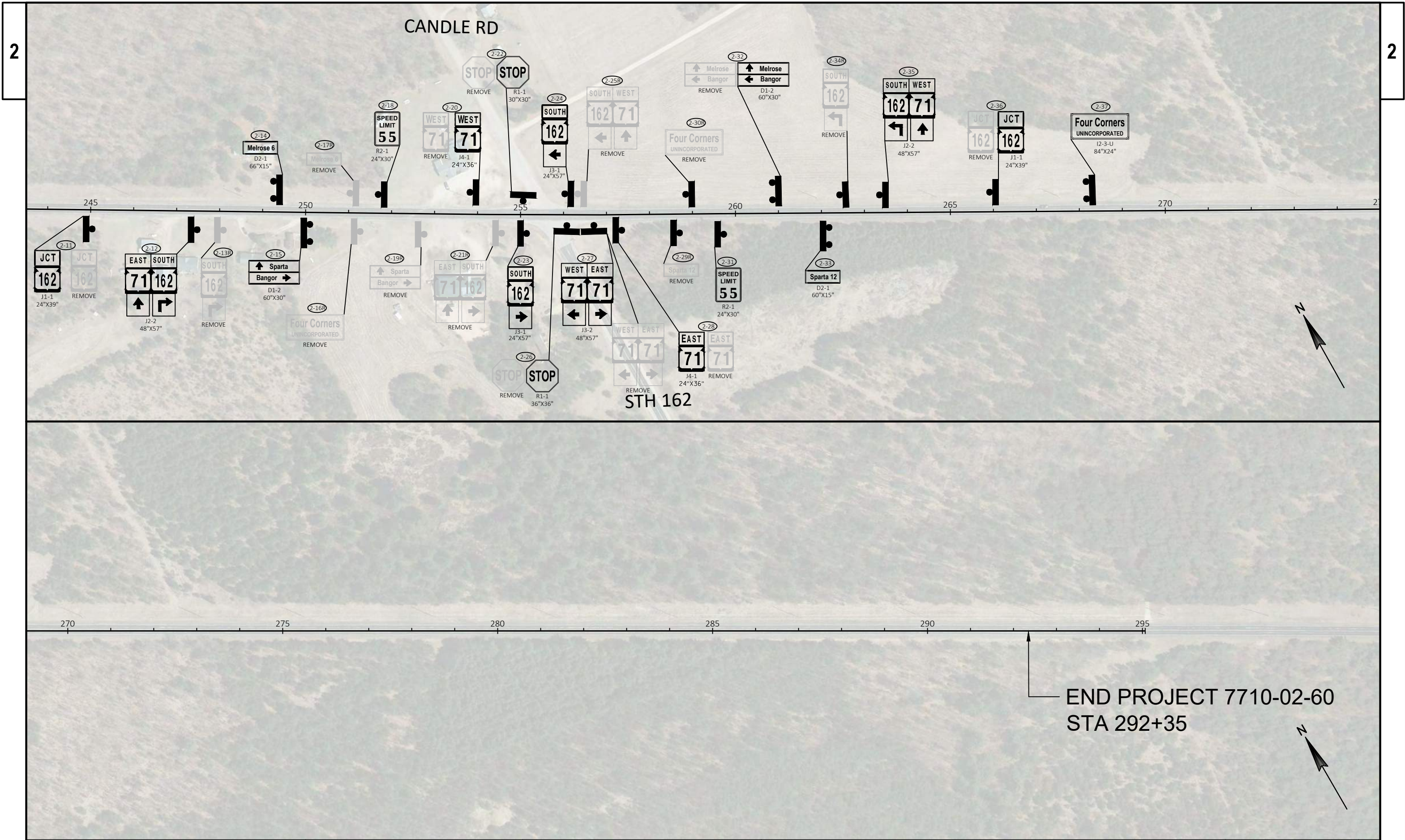
PROJECT NO: 7710-01-65	HWY: STH 71	COUNTY: JACKSON	PERMANENT SIGNING	SHEET	E
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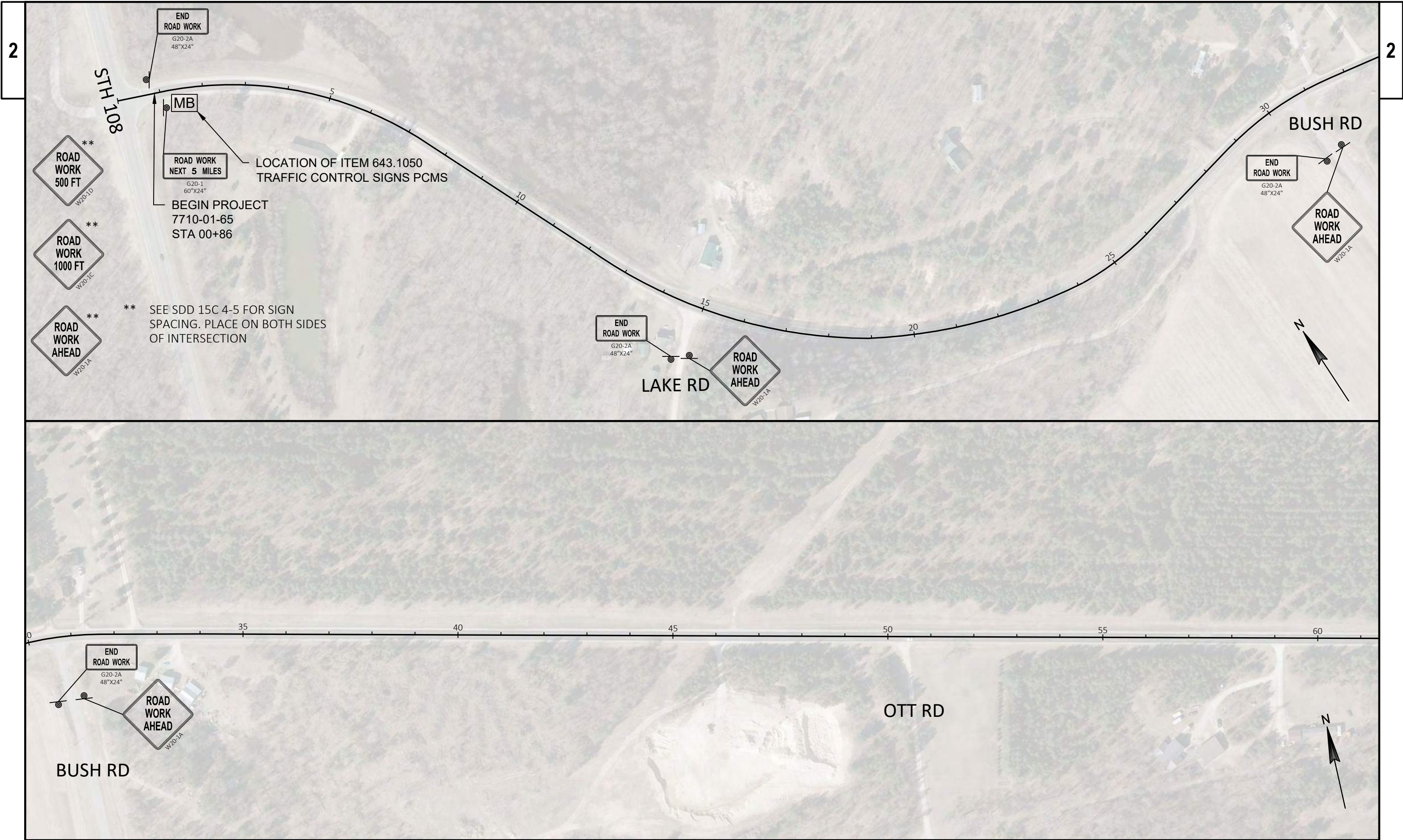




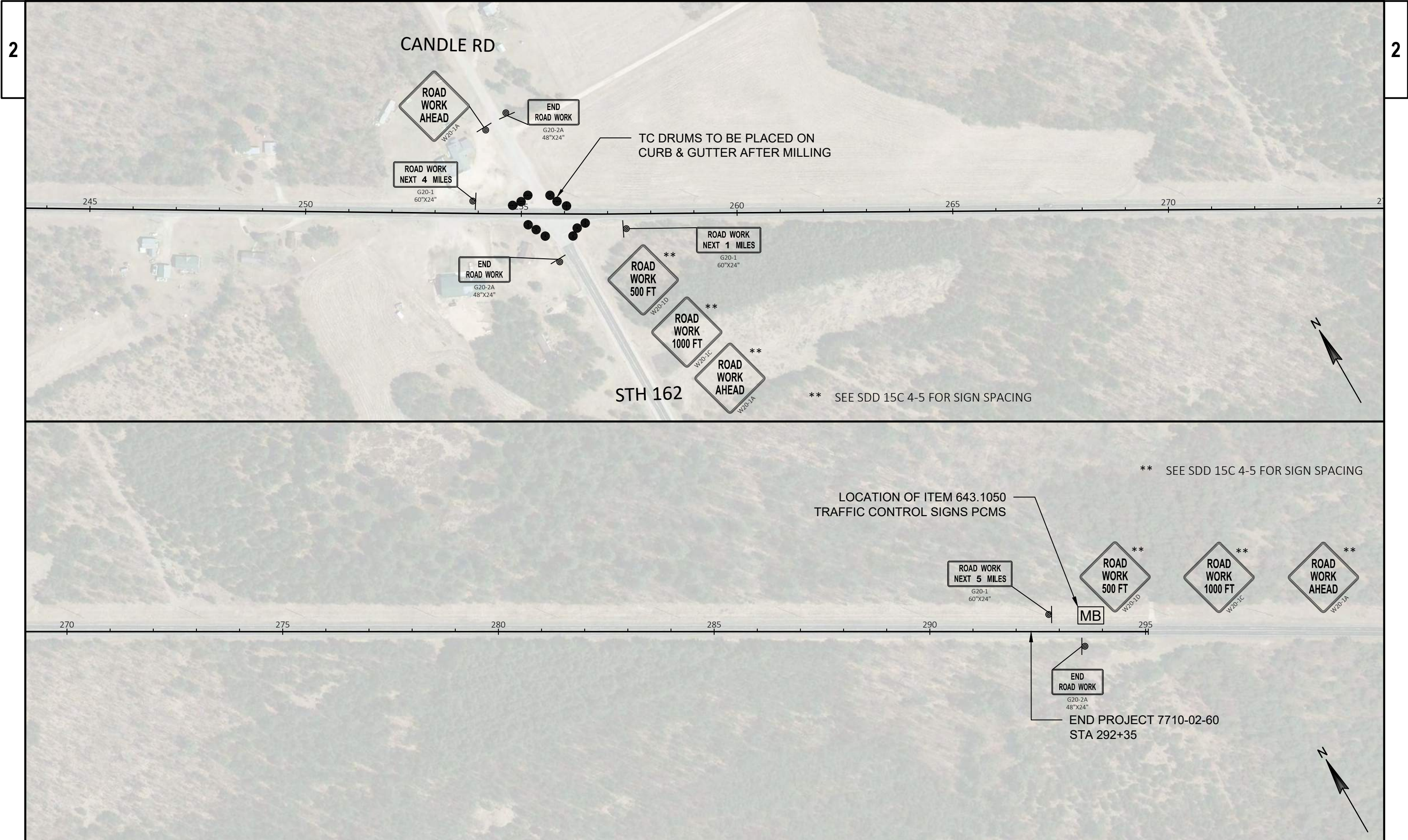


PROJECT NO: 7710-02-60	HWY: STH 71	COUNTY: MONROE	PERMANENT SIGNING	SHEET	E
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PROJECT NO: 7710-01-65	HWY: STH 71	COUNTY: JACKSON	TRAFFIC CONTROL	SHEET	E
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Estimate Of Quantities

		7710-01-65	7710-02-60			
Line	Item	Item Description	Unit	Total	Qty	Qty
0002	204.0110	Removing Asphaltic Surface	SY	805.000	62.000	743.000
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	1,800.000	533.000	1,267.000
0006	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 7710-01-65	LS	1.000	1.000	
0008	211.0100	Prepare Foundation for Asphaltic Paving (project) 02. 7710-02-60	LS	1.000		1.000
0010	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	292.000	71.000	221.000
0012	213.0100	Finishing Roadway (project) 01. 7710-01-65	EACH	1.000	1.000	
0014	213.0100	Finishing Roadway (project) 02. 7710-02-60	EACH	1.000		1.000
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	4,479.000	1,284.000	3,195.000
0018	455.0605	Tack Coat	GAL	5,568.000	1,445.000	4,123.000
0020	460.2000	Incentive Density HMA Pavement	DOL	6,790.000	1,680.000	5,110.000
0022	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	29,149.000	7,064.000	22,085.000
0024	460.5224	HMA Pavement 4 LT 58-28 S	TON	10,599.000	2,619.000	7,980.000
0026	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	66.000	5.000	61.000
0028	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	22,656.000	5,964.000	16,692.000
0030	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7710-01-65	EACH	1.000	1.000	
0032	618.0100	Maintenance And Repair of Haul Roads (project) 02. 7710-02-60	EACH	1.000		1.000
0034	619.1000	Mobilization	EACH	1.000	0.240	0.760
0036	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	19.000	15.000	4.000
0038	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	35.000	15.000	20.000
0040	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	16.000	9.000	7.000
0042	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	3.000	1.000	2.000
0044	637.2210	Signs Type II Reflective H	SF	314.160	98.420	215.740
0046	637.2230	Signs Type II Reflective F	SF	189.500	177.500	12.000
0048	638.2602	Removing Signs Type II	EACH	60.000	34.000	26.000
0050	638.3000	Removing Small Sign Supports	EACH	59.000	33.000	26.000
0052	642.5001	Field Office Type B	EACH	1.000	0.240	0.760
0054	643.0300	Traffic Control Drums	DAY	208.000		208.000
0056	643.0310.S	Temporary Portable Rumble Strips 01. 7710-01-65	LS	1.000	1.000	
0058	643.0310.S	Temporary Portable Rumble Strips 02. 7710-02-60	LS	1.000		1.000
0060	643.0900	Traffic Control Signs	DAY	702.000	260.000	442.000
0062	643.1050	Traffic Control Signs PCMS	DAY	14.000	7.000	7.000
0064	643.5000	Traffic Control	EACH	1.000	0.240	0.760
0066	646.1020	Marking Line Epoxy 4-Inch	LF	109,707.000	24,257.000	85,450.000
0068	646.6120	Marking Stop Line Epoxy 18-Inch	LF	25.000		25.000
0070	648.0100	Locating No-Passing Zones	MI	5.520	1.340	4.180
0072	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	51,036.000	9,666.000	41,370.000
0074	650.8000	Construction Staking Resurfacing Reference	LF	29,149.000	7,064.000	22,085.000

Estimate Of Quantities

				7710-01-65	7710-02-60		
Line	Item	Item Description	Unit	Total	Qty	Qty	
0076	690.0150	Sawing Asphalt	LF	666.000	75.000	591.000	
0078	740.0440	Incentive IRI Ride	DOL	11,046.000	2,680.000	8,366.000	

3

REMOVING ASPHALTIC SURFACE

PROJECT ID	STATION	LOCATION	204.0110 SY	REMARKS
7710-01-65	30+67	RT	33	BUSH RD
"	71+50	RT	29	CE DRIVEWAY
TOTAL 7710-01-65			62	
7710-02-60	71+50	RT	29	CE DRIVEWAY
"	72+54	RT	75	CE DRIVEWAY
"	73+58	LT	147	CABIN AVE
"	73+63	RT	51	PE DRIVEWAY
"	114+88	LT	86	BACKTRAIL AVE
"	116+99	RT	42	PE DRIVEWAY
"	127+30	RT	31	PE DRIVEWAY
"	174+49	LT	150	CANARY RD
"	225+82	LT	24	PE DRIVEWAY
"	253+34	RT	108	CE DRIVEWAY
TOTAL 7710-02-60			743	
PROJECT TOTAL			805	

REMOVING ASPHALTIC SURFACE MILLING BUTT JOINTS

PROJECT ID	STATION	TO	STATION	LOCATION	204.0115 SY
7710-01-65	00+86	-	2+86	LT/RT	533
TOTAL 7710-01-65					533
7710-02-60	255+62	-	255+62	LT	435
"	255+62	-	255+62	RT	299
"	290+35	-	292+35	LT/RT	533
TOTAL 7710-02-60					1267
PROJECT TOTAL					1800

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

Project ID	STATION	TO	STATION	LOCATION	211.0400 STA
7710-01-65	00+86	-	71+50	LT/RT	71
7710-01-65 TOTAL					71
7710-02-60	71+50	-	292+35	LT/RT	221
PROJECT TOTAL					292

BASE AGGREGATE DENSE 3/4-INCH

PROJECT ID	STATION	TO	STATION	LOCATION	305.0110 TON	REMARKS
7710-01-65	00+86	-	8+50	LT & RT	180	PRE-SHOULDERING WHERE NEEDED
"	8+50	-	14+25	LT & RT	78	PRE-SHOULDERING WHERE NEEDED
"	14+25	-	27+00	LT & RT	64	PRE-SHOULDERING WHERE NEEDED
"	27+00	-	28+00	LT & RT	0	
"	28+00	-	30+60	LT & RT	13	PRE-SHOULDERING WHERE NEEDED
"	30+60	-	71+50	LT & RT	414	PRE-SHOULDERING WHERE NEEDED
"	00+86	-	8+50	LT & RT	193	FINAL SHOULDER
"	8+50	-	14+25	LT & RT	22	FINAL SHOULDER
"	14+25	-	27+00	LT & RT	81	FINAL SHOULDER
"	27+00	-	28+00	LT & RT	1	FINAL SHOULDER
"	28+00	-	30+60	LT & RT	3	FINAL SHOULDER
"	30+60	-	71+50	LT & RT	103	FINAL SHOULDER
"		-			32	PE'S & FE'S
"		-			100	UNDISTRIBUTED
TOTAL 7710-01-65					1284	
7710-02-60	71+50	-	292+35	LT & RT	537	PRE-SHOULDERING WHERE NEEDED
"	71+50	-	292+35	LT & RT	2255	FINAL SHOULDER
"		-			153	PE'S & FE'S
"		-			250	UNDISTRIBUTED
TOTAL 7710-02-60					3195	
PROJECT TOTAL					4479	

3

TACK COAT

455.0605						
PROJECT ID	STATION	TO	STATION	LOCATION	GAL	REMARKS
7710-01-65	00+86	-	14+25	MAINLINE	250	0.07 GAL/ SY
"	14+25	-	27+00	MAINLINE	342	0.07 GAL/ SY
"	27+00	-	28+00	MAINLINE	29	0.07 GAL/ SY
"	28+00	-	30+60	MAINLINE	61	0.07 GAL/ SY
"	30+60	-	71+50	MAINLINE	763	0.07 GAL/ SY
TOTAL 7710-01-65					1445	
7710-02-60	71+50	-	292+35	MAINLINE	4123	0.07 GAL/ SY
TOTAL 7710-02-60					4123	
PROJECT TOTAL					5568	

ASPHALT CENTER LINE RUMBLE STRIPS 2-LANE RURAL

465.0475						
PROJECT ID	STATION	TO	STATION	LOCATION	LF	
7710-01-65	00+86	-	12+80	CL	1194	
"	16+80	-	27+67	CL	1187	
"	32+67	-	45+00	CL	1233	
"	47+00	-	70+50	CL	2350	
TOTAL 7710-01-65					5964	
7710-02-30	76+72	-	112+88	CL	3616	
"	116+88	-	129+81	CL	1293	
"	133+81	-	172+48	CL	3867	
"	176+48	-	220+90	CL	4442	
"	257+61	-	292+35	CL	3474	
TOTAL 7710-02-30					16692	
PROJECT TOTAL					22656	

REHEATING HMA PAVEMENT LONGITUDINAL JOINTS

460.4110.S						
PROJECT ID	STATION	TO	STATION	LOCATION	LF	
7710-01-65	00+86	-	71+50	CL	7064	
7710-02-60	71+50	-	292+35	CL	22085	
PROJECT TOTAL					29149	

HMA PAVEMENT 4 LT 58-28 S

460.5224						
PROJECT ID	STATION	TO	STATION	LOCATION	TON	
7710-01-65	00+86	-	8+50	MAINLINE	301	
"	8+50	-	14+25	MAINLINE	200	
"	14+25	-	27+00	MAINLINE	539	
"	27+00	-	28+00	MAINLINE	45	
"	28+00	-	30+60	MAINLINE	102	
"	30+60	-	71+50	MAINLINE	1425	
"	30+67			BUSH RD	7	
TOTAL 7710-01-65					2619	
7710-02-60	71+50	-	292+35	MAINLINE	7730	
"	73+58			CABIN AVE	33	
"	114+88			BACKTRAIL AVE	19	
"	174+49			CANARY RD	34	
"	255+62			STH 162	97	
"	255+62			CANDLE RD	67	
TOTAL 7710-02-60					7980	
PROJECT TOTAL					10599	

ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

465.0120					
PROJECT ID	STATION	LOCATION	TON	REMARKS	
7710-01-65	71+50	RT	5	CE	
TOTAL 7710-01-65			5		
7710-02-60	71+50	RT	5	CE	
"	72+54	RT	13	CE	
"	73+63	RT	9	PE	
"	116+99	RT	7	PE	
"	127+30	RT	5	PE	
"	255+82	LT	4	PE	
"	253+34	RT	18	CE	
TOTAL 7710-02-60			61		
PROJECT TOTAL			66		

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PERMANENT SIGNING SUMMARY																		
PROJECT ID	SIGN NUMBER	STATION	LOCATION	SIGN CODE	SIZE	DESCRIPTION	ORDER LINES	634.0612 POSTS WOOD 4X6-INCH 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH 18-FT EACH	637.221 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	MOUNTED ON SAME POST AS SIGN NUMBER	REMARKS	
7710-01-65	1-1	1+40	RT	J4-1	24" X 36"	REASSURANCE ASSEMBLY	EAST 71			1		6.00						
"	1-2	1+55	LT	W14-3	48" X 36"	NO PASSING ZONE PENNANT			1				6.00	1	1			
"	1-3R	1+80	RT	J4-1	24" X 36"	REASSURANCE ASSEMBLY	EAST 71							1	1			
"	1-4R	3+30	RT	D2-1	60" X 15"	DESTINATION DISTANCE	SPARTA 17							1	1			
"	1-5	3+50	RT	R2-1	24" X 30"	SPEED LIMIT_MPH	55		1			5.00						
"	1-6	4+00	LT	D1-2	78" X 30"	DESTINATIONS ARROWS	[LEFT ARROW] WEST SALEM MELROSE [RIGHT ARROW]		1	1		16.25						
"	1-7R	5+00	LT	D1-2	78" X 30"	DESTINATIONS ARROWS	[LEFT ARROW] WEST SALEM MELROSE [RIGHT ARROW]							1	2			
"	1-8	6+00	LT	J2-3	72" X 57"	ROUTE TURN ASSEMBLY	SOUTH WEST NORTH 108 71 108			1	1	28.50						
"	1-9	7+00	RT	D2-1	60" X 15"	DESTINATION DISTANCE	LEFT, RIGHT, RIGHT TURN ARROW SPARTA 17	1	1			6.25						
"	1-10R	7+65	RT	W1-4-L	30" X 30"	LEFT REVERSE CURVE								1	1			
"	1-11R	7+65	RT	W13-1	18" X 18"	SPEED ADVISORY PLAQUE	45							1		1-10R		
"	1-12	8+00	LT	W3-1	36" X 36"	STOP AHEAD				1			9.00					
"	1-13R	8+00	LT	J2-1	24" X 57"	ROUTE TURN ASSEMBLY	WEST 71 RIGHT TURN ARROW							1	1			
"	1-14	9+00	RT	W1-4-L	30" X 30"	LEFT REVERSE CURVE				1			6.25					
"	1-15	9+00	RT	W13-1	18" X 18"	SPEED ADVISORY PLAQUE	45						2.25				1-14	
"	1-16	10+00	LT	J1-1	24" X 39"	JUNCTION OR END ASSEMBLY	JCT 108			1		6.50						
"	1-17R	10+40	LT	J1-1	24" X 39"	JUNCTION OR END ASSEMBLY	JCT 108							1	1			
"	1-18R	11+75	LT	W3-1	36" X 36"	STOP AHEAD								1	1			
"	1-19	12+60	RT	W1-8	18" X 24"	CHEVRON			1				3.00					
"	1-20	12+60	RT	W1-8	18" X 24"	CHEVRON							3.00			1-19		
"	1-21	13+80	RT	W1-8	18" X 24"	CHEVRON			1				3.00	1	1			
"	1-22	13+80	RT	W1-8	18" X 24"	CHEVRON							3.00			1-21		
"	1-23	14+80	RT	R1-1	30" X 30"	STOP			1			5.18		1	1		LAKE RD	
"	1-24	15+00	RT	W1-8	18" X 24"	CHEVRON			1				3.00	1	1			
"	1-25	15+00	RT	W1-8	18" X 24"	CHEVRON							3.00			1-24		
"	1-26	16+20	RT	W1-8	18" X 24"	CHEVRON			1				3.00	1	1			
"	1-27	16+20	RT	W1-8	18" X 24"	CHEVRON							3.00			1-26		
"	1-28	17+40	RT	W1-8	18" X 24"	CHEVRON		1					3.00	1	1			
"	1-29	17+40	RT	W1-8	18" X 24"	CHEVRON							3.00			1-28		
"	1-30	18+60	RT	W1-8	18" X 24"	CHEVRON		1					3.00	1	1			
"	1-31	18+60	RT	W1-8	18" X 24"	CHEVRON							3.00			1-30		
"	1-32	19+80	RT	W1-8	18" X 24"	CHEVRON		1					3.00	1	1			
"	1-33	19+80	RT	W1-8	18" X 24"	CHEVRON							3.00			1-32		
"	1-34	21+00	RT	W1-8	18" X 24"	CHEVRON		1					3.00	1	1			
"	1-35	21+00	RT	W1-8	18" X 24"	CHEVRON							3.00			1-34		
"	1-36	22+00	RT	W2-2	30" X 30"	SIDE ROAD WARNING SIGN			1				6.25					
"	1-37	22+20	RT	W1-8	18" X 24"	CHEVRON		1					3.00	1	1			
"	1-38	22+20	RT	W1-8	18" X 24"	CHEVRON							3.00			1-37		
"	1-39	23+40	RT	W1-8	18" X 24"	CHEVRON		1					3.00	1	1			
"	1-40	23+40	RT	W1-8	18" X 24"	CHEVRON							3.00			1-40		
"	1-41	24+00	LT	W2-2	30" X 30"	SIDE ROAD WARNING SIGN			1				6.25					
"	1-42	24+40	RT	W1-8	18" X 24"	CHEVRON		1					3.00	1	1			
"	1-43	24+40	RT	W1-8	18" X 24"	CHEVRON							3.00			1-42		
"	1-44R	24+40	RT	S3-1	36" X 36"	SCHOOL BUS STOP AHEAD								1	1			
"	1-45	24+60	RT	S3-1	36" X 36"	SCHOOL BUS STOP AHEAD				1			9.00					
"	1-46	25+60	RT	W1-8	18" X 24"	CHEVRON		1					3.00	1	1			
"	1-47	25+60	RT	W1-8	18" X 24"	CHEVRON							3.00			1-46		
"	1-48R	25+60	RT	W2-2	30" X 30"	SIDE ROAD WARNING SIGN								1	1			
"	1-49	26+80	RT	W1-8	18" X 24"	CHEVRON		1					5.00	1	1			
"	1-50	26+80	RT	W1-8	18" X 24"	CHEVRON							5.00			1-49		
"	1-51	29+30	LT	W1-8	18" X 24"	CHEVRON		1					5.00					
"	1-52	29+30	LT	W1-8	18" X 24"	CHEVRON							5.00					
"	1-53	30+50	LT	W1-8	18" X 24"	CHEVRON		1					5.00					
"	1-54	30+50	LT	W1-8	18" X 24"	CHEVRON							5.00					
"	1-55	30+70	RT	R1-1	30" X 30"	STOP			1			5.18		1	1		BUSH RD	
"	1-56	31+70	LT	W1-8	18" X 24"	CHEVRON		1					5.00					
"	1-57	31+70	LT	W1-8	18" X 24"	CHEVRON							5.00					
"	1-58R	34+75	LT	S3-1	36" X 36"	SCHOOL BUS STOP AHEAD								1	1			
"	1-59	35+00	LT	W1-4-L	30" X 30"	LEFT REVERSE CURVE				1			6.25					
"	1-60	35+00	LT	W13-1	18" X 18"	SPEED ADVISORY PLAQUE	45						2.25			1-59		
"	1-61R	38+00	LT	W1-4-L	30" X 30"	LEFT REVERSE CURVE								1	1			
"	1-62R	38+00	LT	W13-1	18" X 18"	SPEED ADVISORY PLAQUE	45							1		1-61R		
"	1-63	40+40	RT	W14-3	48" X 36"	NO PASSING ZONE PENNANT			1				6.00	1	1			
"	1-64	50+50	RT	R1-1	30" X 30"	STOP			1			5.18		1	1		OTT RD	
"	Jan-65	53+00	LT	W14-3	48" X 36"	NO PASSING ZONE PENNANT			1				6.00	1	1			
"	1-66R	63+45	RT	W1-2-R	30" X 30"	RIGHT CURVE								1	1			
"	1-67	66+00	RT	I-55-56	30" X 36"	ADOPT A HIGHWAY	4-CORNERS FRIENDS			1		7.50		1	1			
"	1-68	71+50	LT	I-2-2	66" X 15"	COUNTY LINE NAME	JACKSON COUNTY	2				6.88		1	1			
TOTAL 7710-01-65								15	15	9	1	98.42	177.50	34	33			
PROJECT NO: 7710-01-65 / 7710-02-60				HWY: STH 71			COUNTY: JACKSON / MONROE			MISCELLANEOUS QUANTITIES						SHEET:		E

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PERMANENT SIGNING SUMMARY CON'T																	
PROJECT ID	SIGN NUMBER	STATION	LOCATION	SIGN CODE	SIZE	DESCRIPTION	ORDER LINES	634.0612 POSTS WOOD 4X6-INCH 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	MOUNTED ON SAME POST AS SIGN NUMBER	REMARKS
7710-02-60	2-1	71+50	RT	I-2-2	60" X 15"	COUNTY LINE NAME	MONROE COUNTY	1	1			6.25		1	1		
"	2-2	73+35	LT	R1-1	30" X 30"	STOP			1			5.18		1	1		CABIN AVE
"	2-3R	82+90	LT	W1-2-L	30" X 30"	LEFT CURVE								1	1		
"	2-4	114+25	LT	R1-1	30" X 30"	STOP			1			5.18		1	1		BACKTRAIL AVE
"	2-5	132+20	RT	R1-1	30" X 30"	STOP			1			5.18		1	1		CAMBRIDGE RD
"	2-6R	139+00	RT	S3-1	36" X 36"	SCHOOL BUS STOP AHEAD								1	1		
"	2-7	156+00	RT	W14-3	48" X 36"	NO PASSING ZONE PENNANT			1				6.00	1	1		
"	2-8	158+50	LT	W14-3	48" X 36"	NO PASSING ZONE PENNANT			1				6.00	1	1		
"	2-9	174+00	LT	R1-1	30" X 30"	STOP			1			5.18		1	1		CANARY RD
"	2-10	243+00	RT	I-2-3-U	84" X 24"	POPULATION UNINCORPORATED	FOUR CORNERS UNINCORPORATED		1	1		13.00					
"	2-11	245+00	RT	J1-1	24" X 39"	JUNCTION OR END ASSEMBLY	JCT 162		1			6.50		1	1		
"	2-12	247+50	RT	J2-2	48" X 57"	ROUTE TURN ASSEMBLY	EAST SOUTH 71 162				1	19.00					
"	2-13R	248+00	RT	J2-1	24" X 57"	ROUTE TURN ASSEMBLY	AHEAD ARROW, RIGHT TURN ARROW SOUTH 162							1	1		
"	2-14	249+50	LT	D2-1	66" X 15"	DESTINATION DISTANCE	RIGHT TURN ARROW MELROSE 6	1	1			6.88					
"	2-15	250+00	RT	D1-2	60" X 30"	DESTINATION ARROWS	[AHEAD ARROW] SPARTA BANGOR [RIGHT ARROW]		1	1		12.50					
"	2-16R	251+25	RT	I-2-3-U	84" X 24"	POPULATION UNINCORPORATED	FOUR CORNERS UNINCORPORATED							1	1		
"	2-17R	251+25	LT	D2-1	66" X 15"	DESTINATION DISTANCE	MELROSE 6							1	1		
"	2-18	251+75	LT	R2-1	24" X 30"	SPEED LIMIT_MPH	55		1			5.00					
"	2-19R	252+65	RT	D1-2	60" X 30"	DESTINATION ARROWS	[AHEAD ARROW] SPARTA BANGOR [RIGHT ARROW]							1	1		
"	2-20	254+00	LT	J4-1	24" X 36"	REASSURANCE ASSEMBLY	WEST 71			1		6.00		1	1		
"	2-21R	254+65	RT	J3-2	48" X 57"	DIRECTIONAL ASSEMBLY	EAST SOUTH 71 162							1	1		
"	2-22	254+90	LT	R1-1	30" X 30"	STOP	AHEAD ARROW, RIGHT ARROW		1			5.18		1	1		CANDLE RD
"	2-23	255+00	RT	J3-1	24" X 57"	DIRECTIONAL ASSEMBLY	SOUTH 162				1	9.50					
"	2-24	256+35	LT	J3-1	24" X 57"	DIRECTIONAL ASSEMBLY	RIGHT ARROW SOUTH 162			1		9.50					
"	2-25R	256+35	LT	J3-2	48" X 57"	DIRECTIONAL ASSEMBLY	LEFT ARROW SOUTH WEST 162 71							1	1		
"	2-26	256+40	RT	R1-1	36" X 36"	STOP	LEFT ARROW, AHEAD ARROW		1			7.46		1	1		STH 162
"	2-27	256+45	RT	J3-2	48" X 57"	DIRECTIONAL ASSEMBLY	WEST EAST 71 71			1		19.00		1	1		
"	2-28	257+25	RT	J4-1	24" X 36"	REASSURANCE ASSEMBLY	LEFT ARROW, RIGHT ARROW EAST 71			1		6.00		1	1		
"	2-29R	258+50	RT	D2-1	60" X 15"	DESTINATION DISTANCE	SPARTA 12							1	1		
"	2-30R	259+00	LT	I-2-3-U	84" X 24"	POPULATION UNINCORPORATED	FOUR CORNERS UNINCORPORATED							1	1		
"	2-31	259+50	RT	R2-1	24" X 30"	SPEED LIMIT_MPH	55		1			5.00					
"	2-32	261+00	LT	D1-2	60" X 30"	DESTINATION ARROWS	[AHEAD ARROW] MELROSE [LEFT ARROW] BANGOR		2			12.50		1	1		
"	2-33	262+00	RT	D2-1	60" X 15"	DESTINATION DISTANCE	SPARTA 12	2				6.25					
"	2-34R	262+60	LT	J2-1	24" X 57"	ROUTE TURN ASSEMBLY	SOUTH 162							1	1		
"	2-35	263+50	LT	J2-2	48" X 57"	ROUTE TURN ASSEMBLY	LEFT TURN ARROW SOUTH WEST 162 71			1		19.00					
"	2-36	266+15	LT	J1-1	24" X 39"	JUNCTION OR END ASSEMBLY	LEFT TURN ARROW, AHEAD ARROW JCT 162		1			6.50		1	1		
"	2-37	268+40	LT	I-2-3-U	84" X 24"	POPULATION UNINCORPORATED	FOUR CORNERS UNINCORPORATED		2			14.00					
TOTAL 7710-02-60								4	20	7	2	215.74	12.00	26	26		
PROJECT TOTAL								19	35	16	3	314.16	189.50	60	59		
PROJECT NO: 7710-01-65 / 7710-02-60				HWY: STH 71			COUNTY: JACKSON / MONROE			MISCELLANEOUS QUANTITIES						SHEET:	
																E	

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MARKING LINE EPOXY 4-INCH														
PROJECT ID	STATION	TO	STATION	LOCATION	646.1020 LF	REMARKS	MARKING STOP LINE EPOXY 18-INCH							
7710-01-65	00+86	-	31+00	CL	6028	DOUBLE YELLOW								
"	31+00	-	41+50	CL	1313	YELLOW CENTERLINE W/ SKIP								
"	41+50	-	53+00	CL	288	DASHED YELLOW CENTERLINE								
"	53+00	-	67+00	CL	1750	YELLOW CENTERLINE W/ SKIP								
"	67+00	-	71+50	CL	900	DOUBLE YELLOW								
"	00+86	-	14+50	RT	1364	WHITE EDGELINE								
"	15+00	-	30+50	RT	1550	WHITE EDGELINE								
"	31+00	-	50+25	RT	1925	WHITE EDGELINE								
"	50+75	-	71+50	RT	2075	WHITE EDGELINE								
"	00+86		71+50	LT	7064	WHITE EDGELINE								
TOTAL 7710-01-65					24257									
7710-02-60	71+50	-	150+00	CL	15700	DOUBLE YELLOW	LOCATING NO-PASSING ZONES							
"	150+00	-	160+00	CL	1250	YELLOW CENTERLINE W/ SKIP								
"	160+00	-	163+00	CL	75	DASHED YELLOW CENTERLINE								
"	163+00	-	175+00	CL	1500	YELLOW CENTERLINE W/ SKIP								
"	175+00	-	255+00	CL	16000	DOUBLE YELLOW								
"	256+00	-	292+35	CL	7270	DOUBLE YELLOW								
"	71+50	-	131+50	RT	6000	WHITE EDGELINE								
"	132+00	-	255+00	RT	12300	WHITE EDGELINE								
"	256+00	-	292+35	RT	3635	WHITE EDGELINE								
"	71+50	-	73+00	LT	150	WHITE EDGELINE								
"	74+00	-	114+50	LT	4050	WHITE EDGELINE								
"	115+15	-	174+00	LT	5885	WHITE EDGELINE								
"	175+00	-	255+00	LT	8000	WHITE EDGELINE								
"	256+00	-	292+35	LT	3635	WHITE EDGELINE								
TOTAL 7710-02-60					85450									
PROJECT TOTAL					109707									
							TRAFFIC CONTROL							
							643.0300 TRAFFIC CONTROL DRUMS DAY		643.0900 TRAFFIC CONTROL SIGNS DAY		643.1050 TRAFFIC CONTROL SIGNS PCMS DAY		REMARKS	
7710-01-65	PROJECT					-	260	-	SEE SDD 15C4					
"	BEGIN PROJECT					-	-	7	PLACE ONE WEEK PRIOR TO CONSTRUCTION					
TOTAL 7710-01-65						0	260	7						
7710-02-60 STH 162 INTERSECTION						208	-	-	PLACE ON CURB & GUTTER AFTER MILLING					
"	PROJECT					-	442	-	SEE SDD 15C4					
"	END PROJECT					-	-	7	PLACE ONE WEEK PRIOR TO CONSTRUCTION					
TOTAL 7710-02-60						208	442	7						
PROJECT TOTAL						208	702	14						
PROJECT NO: 7710-01-65 / 7710-02-60														
HWY: STH 71														
COUNTY: JACKSON / MONROE														
MISCELLANEOUS QUANTITIES														
SHEET:														
E														

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TEMPORARY MARKING LINE EPOXY 4-INCH

649.0120						
PROJECT ID	STATION	TO	STATION	LOCATION	LF	REMARKS
7710-01-65	00+86	-	31+00	CL	6028	DOUBLE YELLOW
"	31+00	-	41+50	CL	1134	YELLOW CENTERLINE W/ SKIP
"	41+50	-	53+00	CL	92	DASHED YELLOW CENTERLINE
"	53+00	-	67+00	CL	1512	YELLOW CENTERLINE W/ SKIP
"	67+00	-	71+50	CL	900	DOUBLE YELLOW
TOTAL 7710-01-65					9666	
7710-02-60	71+50	-	150+00	CL	15700	DOUBLE YELLOW
"	150+00	-	160+00	CL	1080	YELLOW CENTERLINE W/ SKIP
"	160+00	-	163+00	CL	24	DASHED YELLOW CENTERLINE
"	163+00	-	175+00	CL	1296	YELLOW CENTERLINE W/ SKIP
"	175+00	-	255+00	CL	16000	DOUBLE YELLOW
"	256+00	-	292+35	CL	7270	DOUBLE YELLOW
TOTAL 7710-02-60					41370	
PROJECT TOTAL					51036	

SAWING ASPHALT

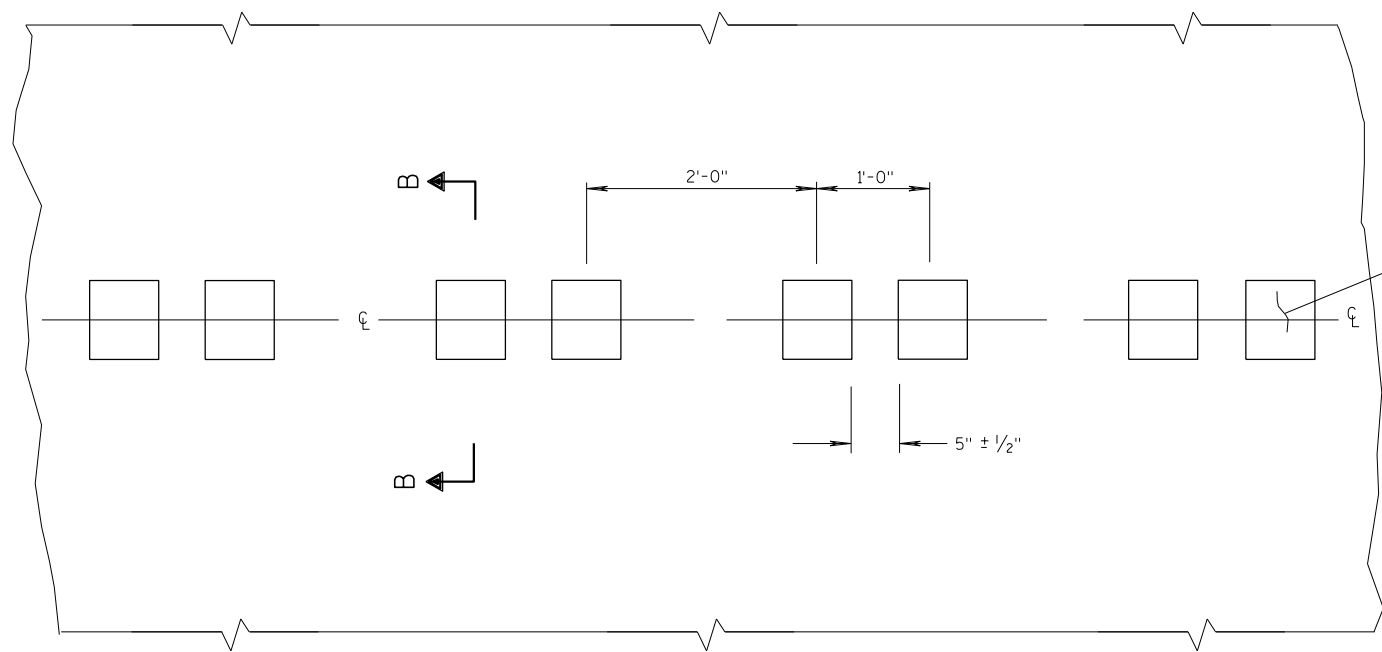
690.0150					
PROJECT ID	STATION	LOCATION	LF	REMARKS	
7710-01-65	00+86	LT/RT	24	BOP	
"	30+65	RT	28	BUSH RD	
"	71+37	RT	23	CE DRIVEWAY	
TOTAL 7710-01-65			75		
7710-02-60	71+64	RT	23	CE DRIVEWAY	
"	72+54	RT	56	CE DRIVEWAY	
"	73+63	LT	112	CABIN AVE	
"	73+63	RT	35	PE DRIVEWAY	
"	114+89	LT	50	BACKTRAIL AVE	
"	117+00	RT	27	PE DRIVEWAY	
"	127+35	RT	19	PE DRIVEWAY	
"	174+43	LT	83	CANARY RD	
"	225+81	LT	17	PE DRIVEWAY	
"	253+32	RT	78	PE DRIVEWAY	
"	255+60	RT	34	STH 162	
"	255+60	LT	33	CANDLE RD	
"	292+35	LT/RT	24	EOP	
TOTAL 7710-02-60			591		
PROJECT TOTAL			666		

CONSTRUCTION STAKING RESURFACING REFERENCE

650.8000					
PROJECT ID	STATION	TO	STATION	LOCATION	LF
7710-01-65	00+86	-	71+50	MAINLINE	7064
7710-02-60	71+50	-	292+35	MAINLINE	22085
PROJECT TOTAL					29149

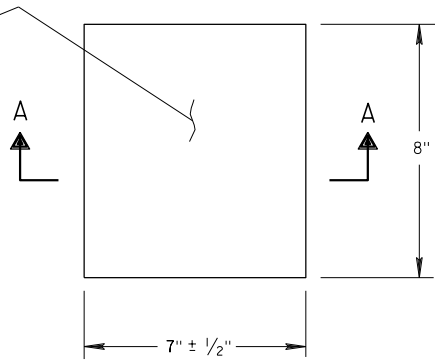
Standard Detail Drawing List

13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B29-01	SAFETY EDGE
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



PLAN VIEW
CENTER LINE WITH GROOVES

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP



PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

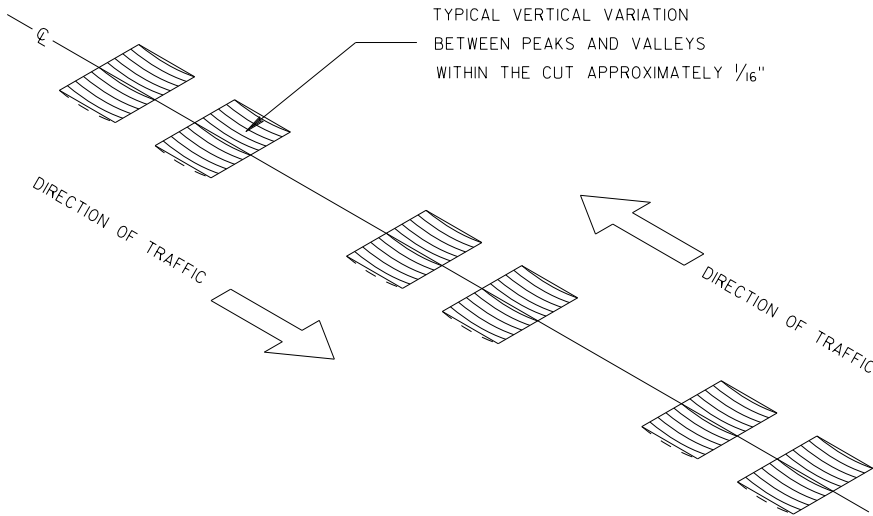
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

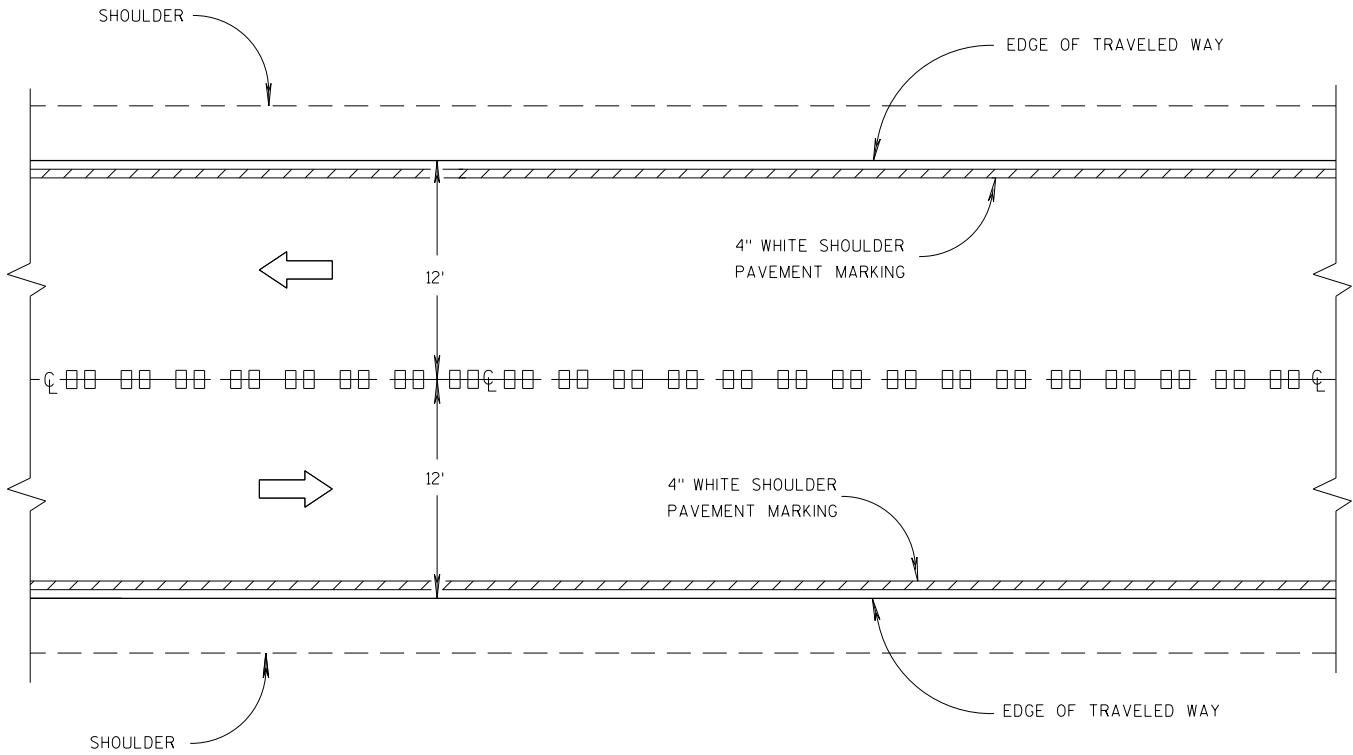
INSTALL PERMANENT MARKING EPOXY 4-INCH AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

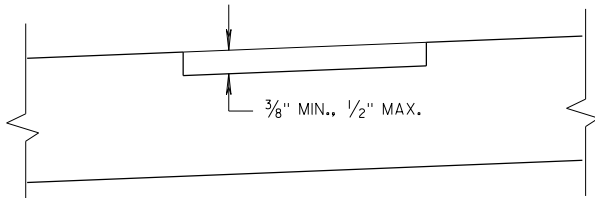
- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



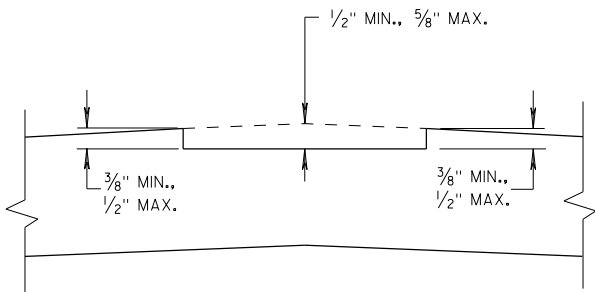
ISOMETRIC



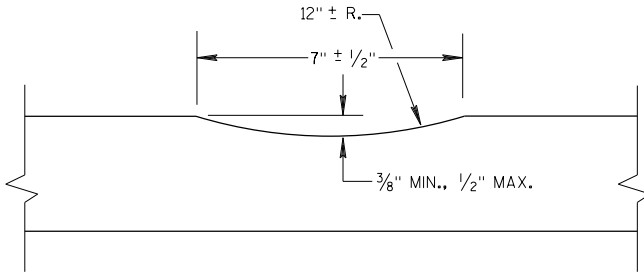
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



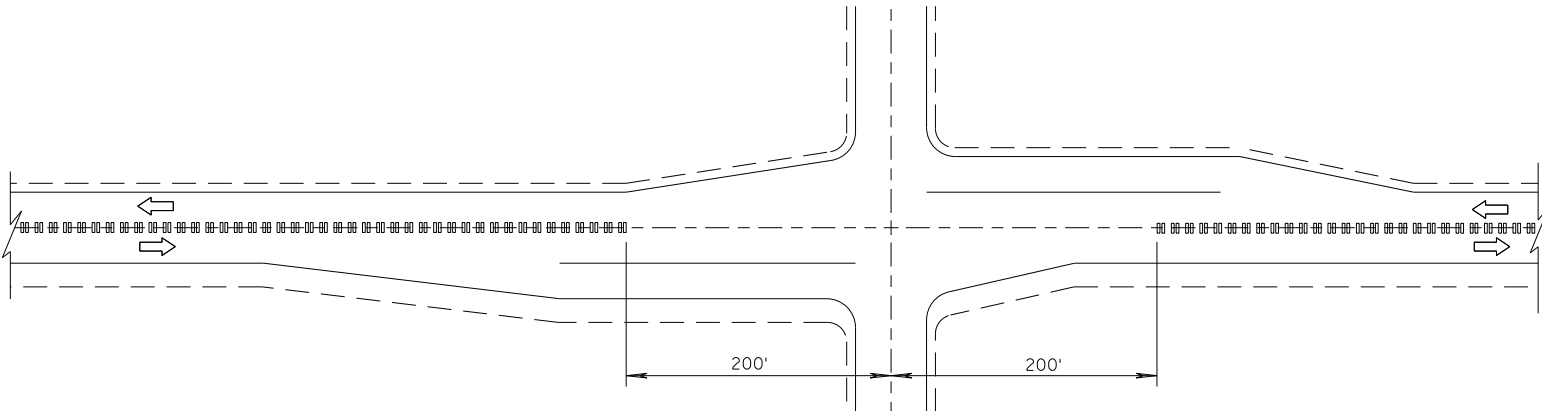
SECTION B-B
CROWNED ROADWAY



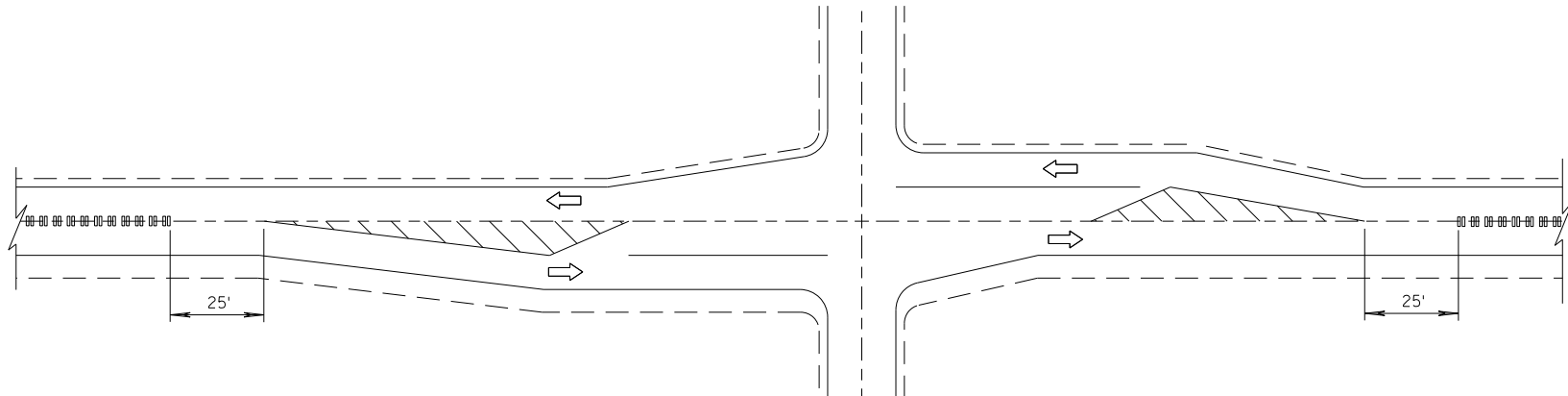
SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

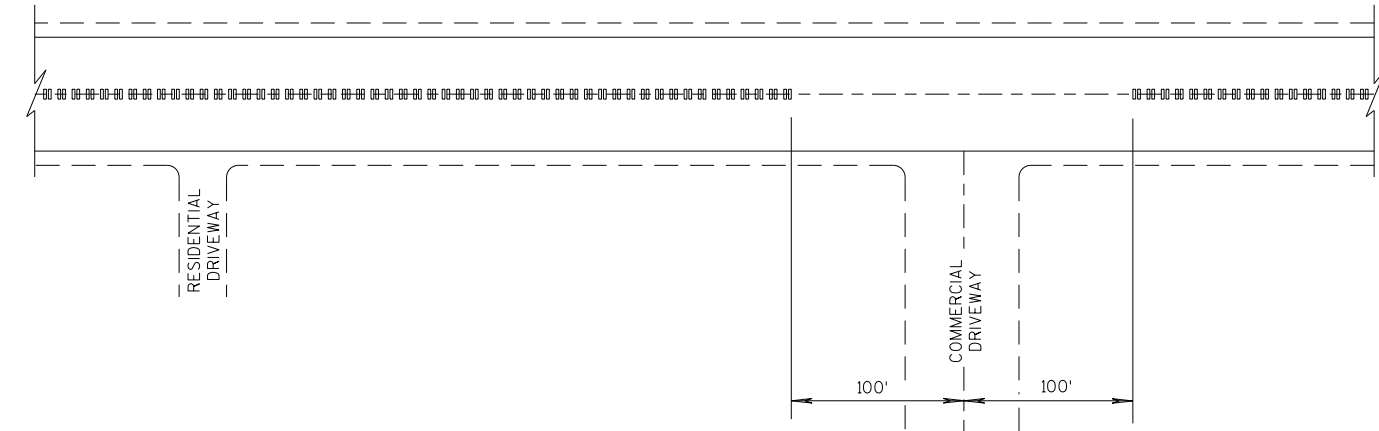
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTER LINE GROOVES AT INTERSECTIONS



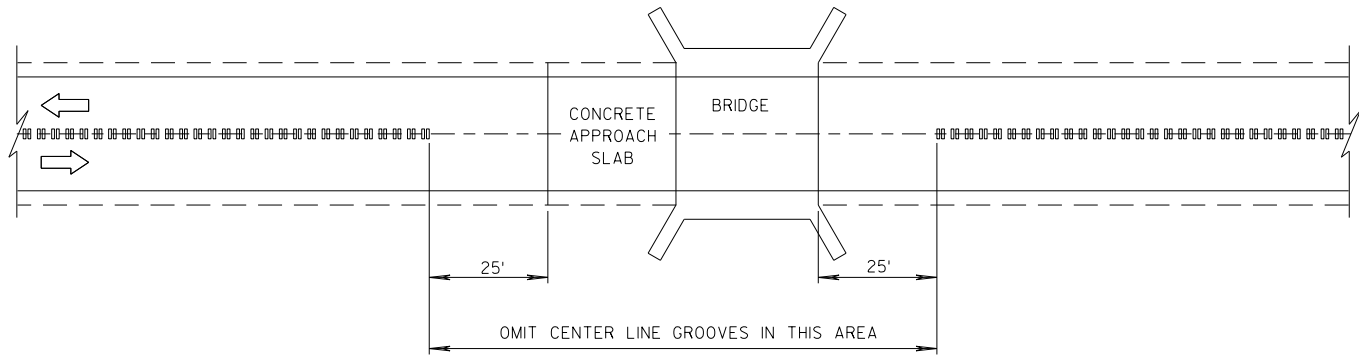
CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)



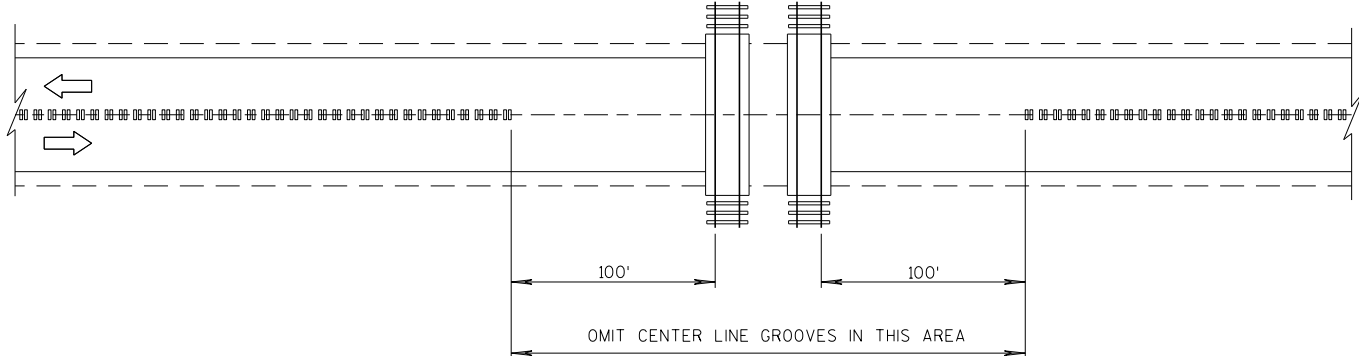
CENTER LINE GROOVES AT DRIVEWAYS

1

1 CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.

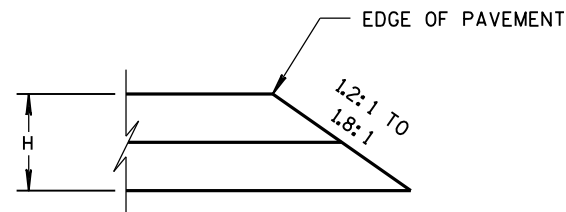


CENTER LINE GROOVES AT BRIDGES

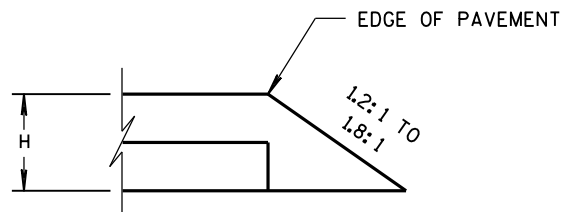


CENTER LINE GROOVES AT RAILROADS

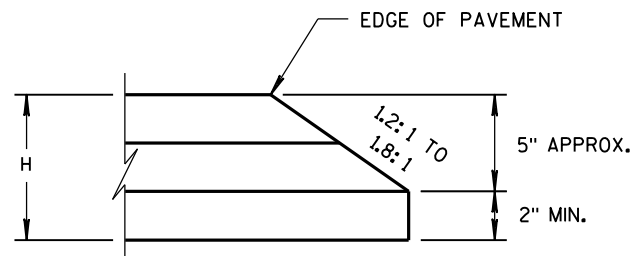
2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 7/2018 DATE	/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA	



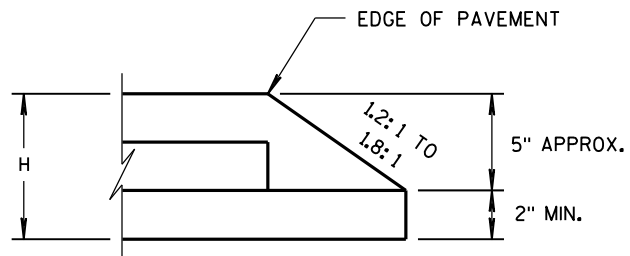
CONSTRUCTED WITH FINAL TWO LAYERS
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER
FOR H 5" OR LESS

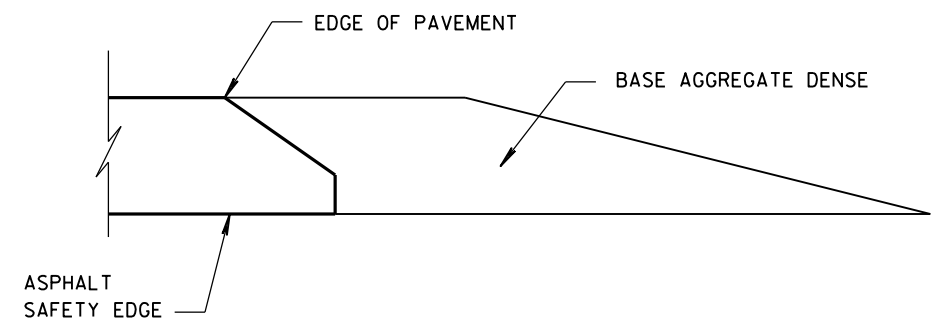


CONSTRUCTED WITH FINAL TWO LAYERS
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER
FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE_{SM}

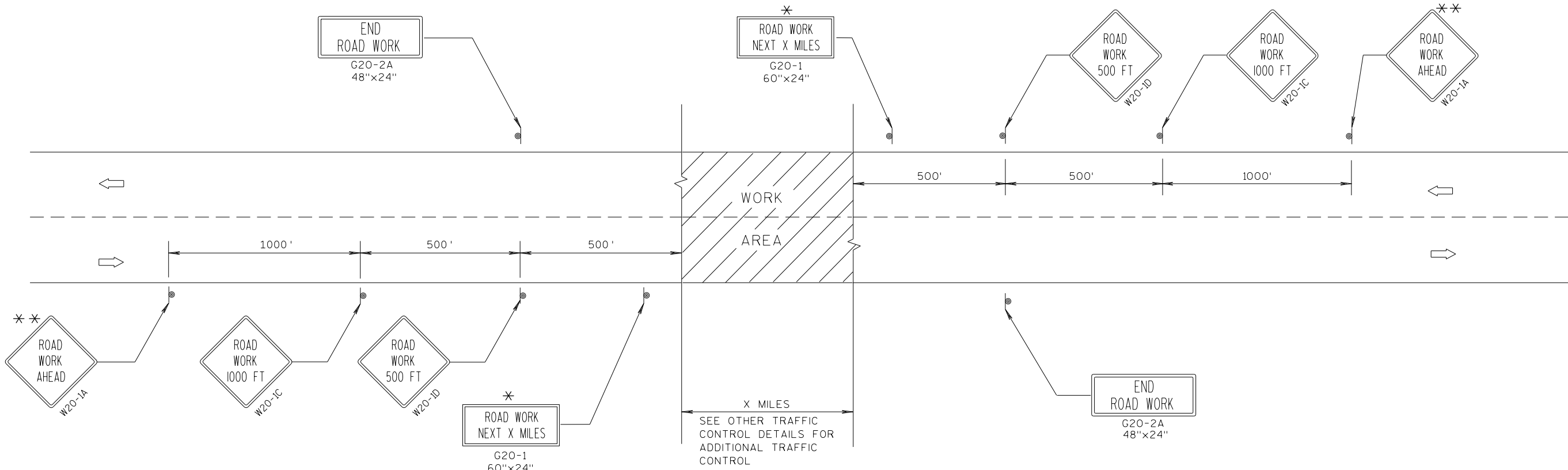
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

FHWA

/s/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

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.

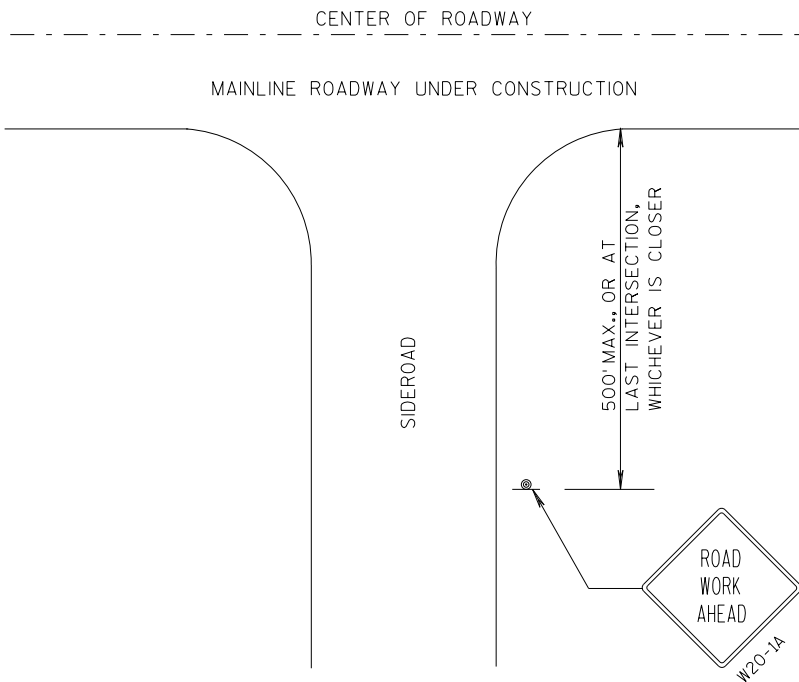
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

* * PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



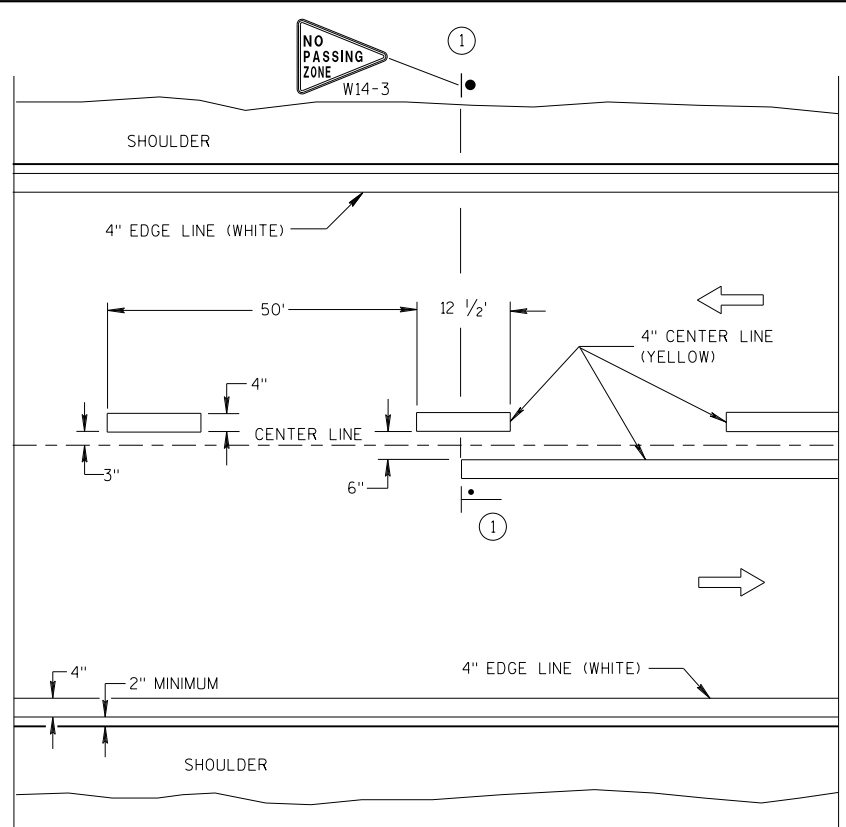
LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ▨ WORK AREA

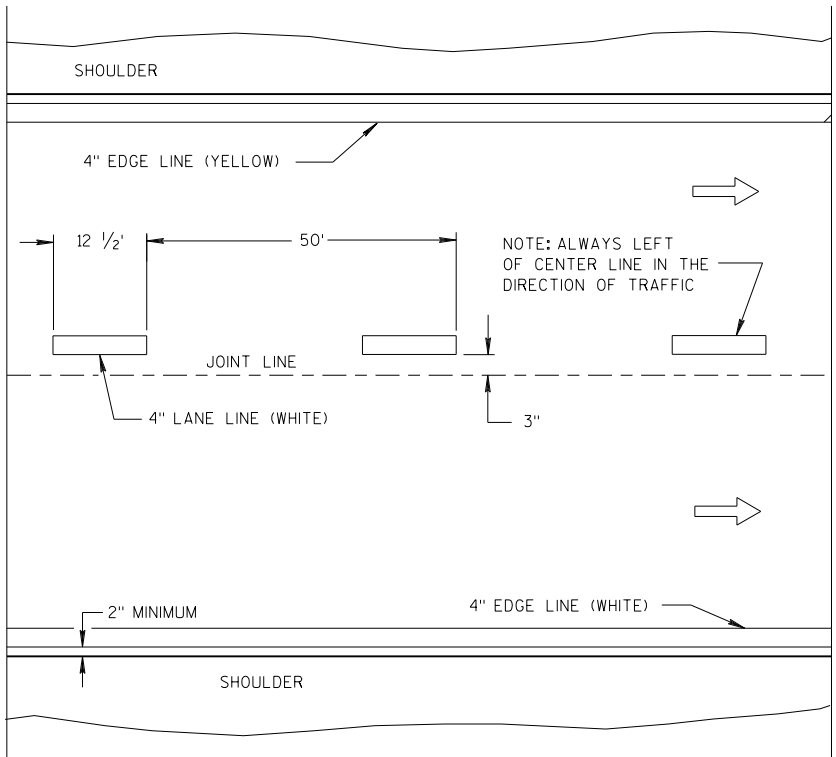
TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA

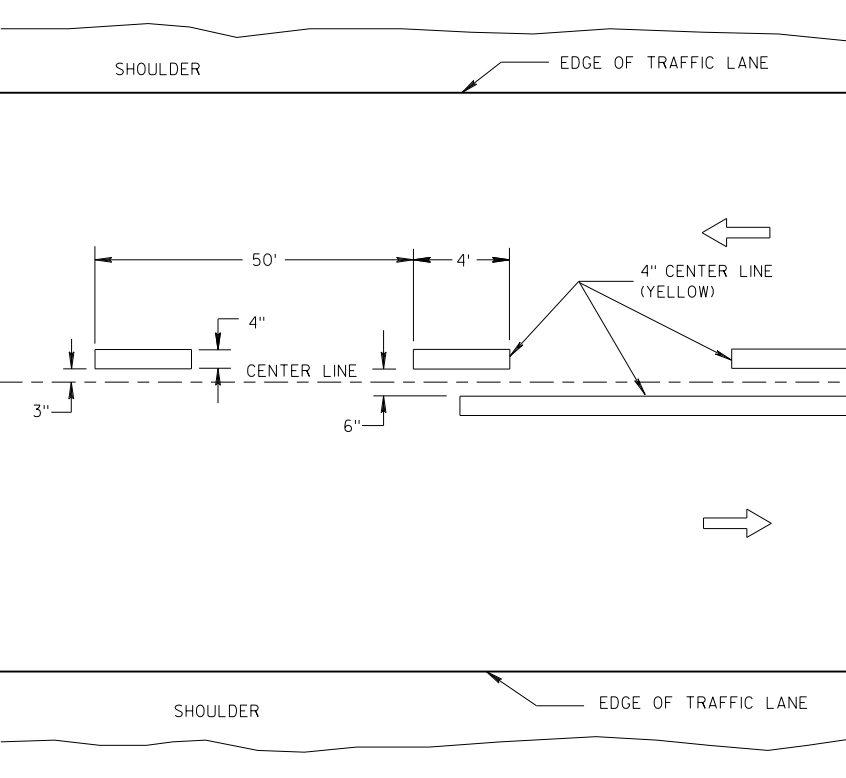


TWO WAY TRAFFIC

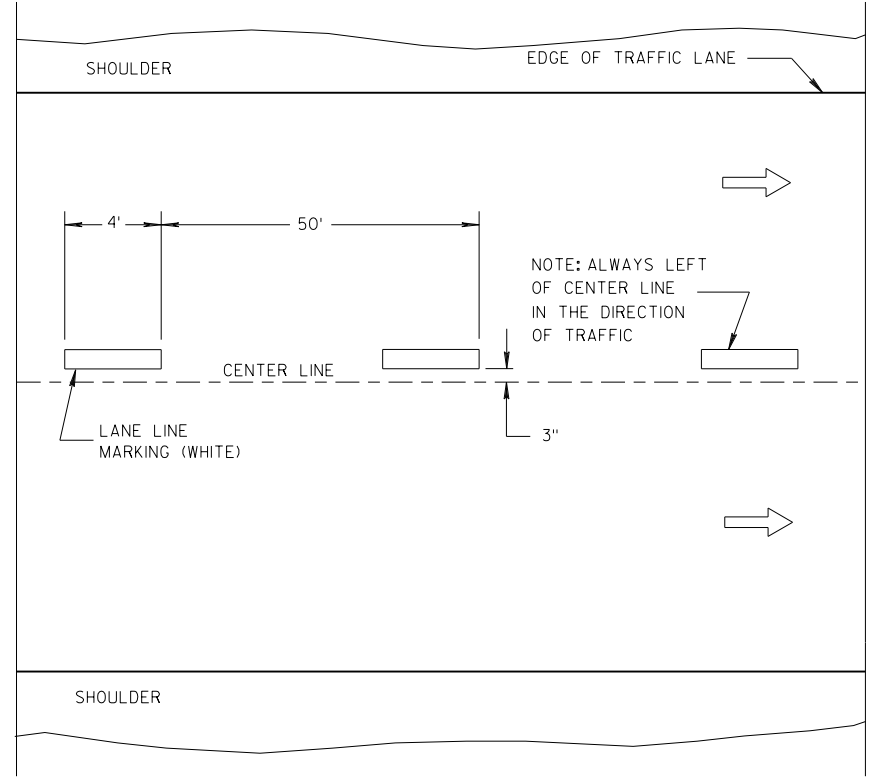


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

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

① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (➡) SHOWS DIRECTION OF TRAVEL

LEGEND

- "T" MARKING
- POST MOUNTED SIGN

LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 7/2018 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	

LEGEND

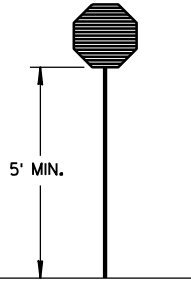
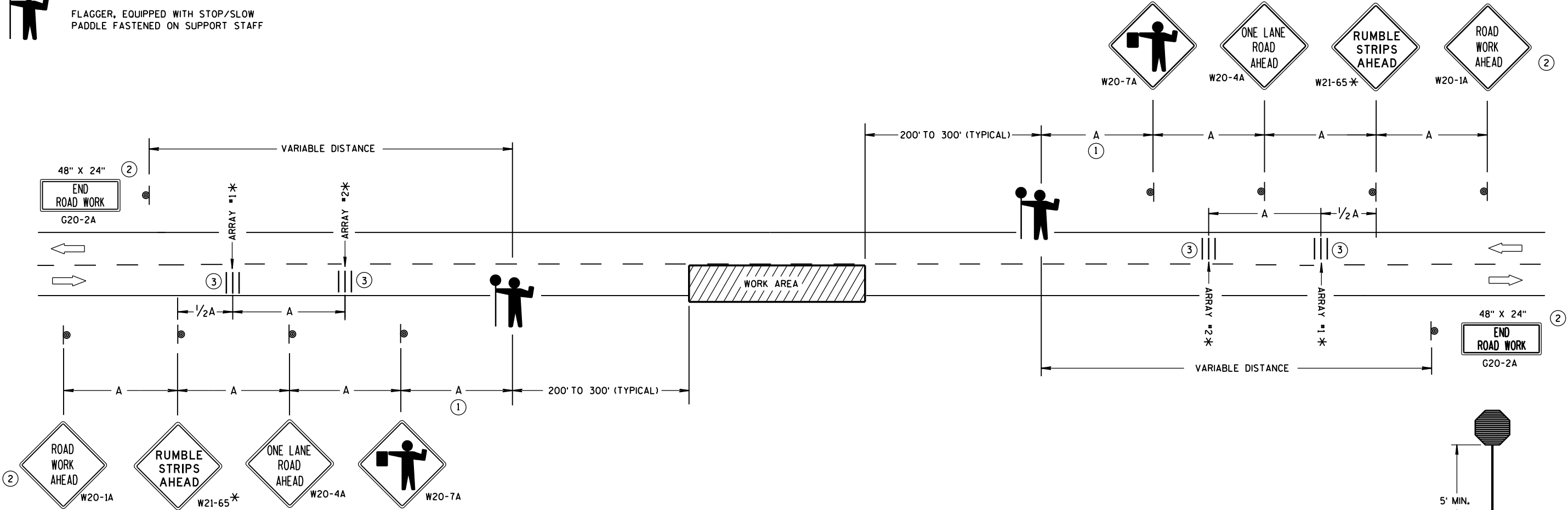
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
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 W20-4A SIGNS, USING SPACING A.



STOP/SLOW PADDLE ON SUPPORT STAFF

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

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.

"W0" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

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, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

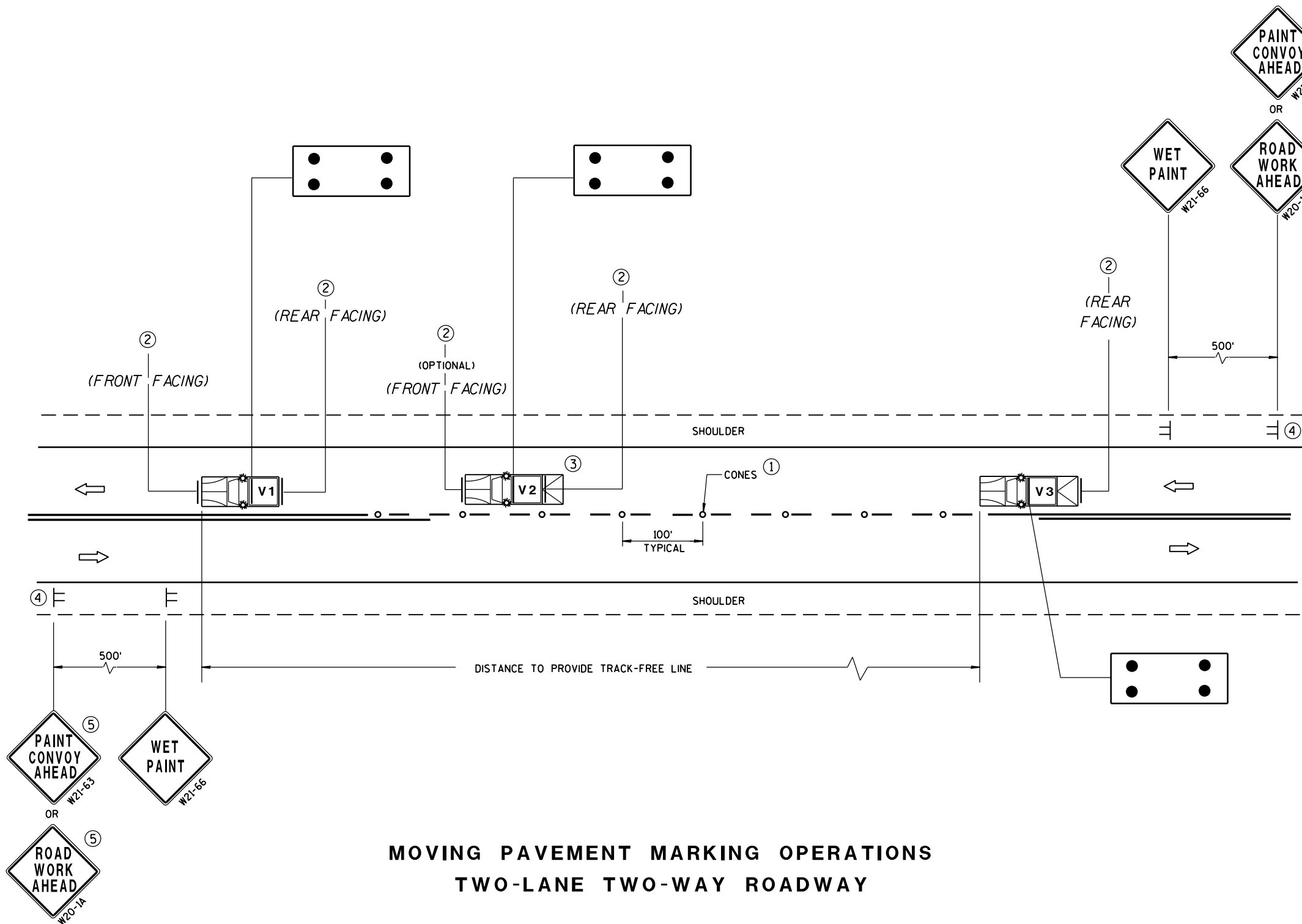
* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

- FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

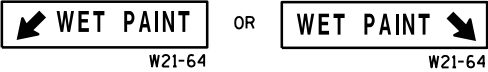
APPROVED
June 2017 /S/ Andrew Heldtke
DATE WORK ZONE ENGINEER
FHWA



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.



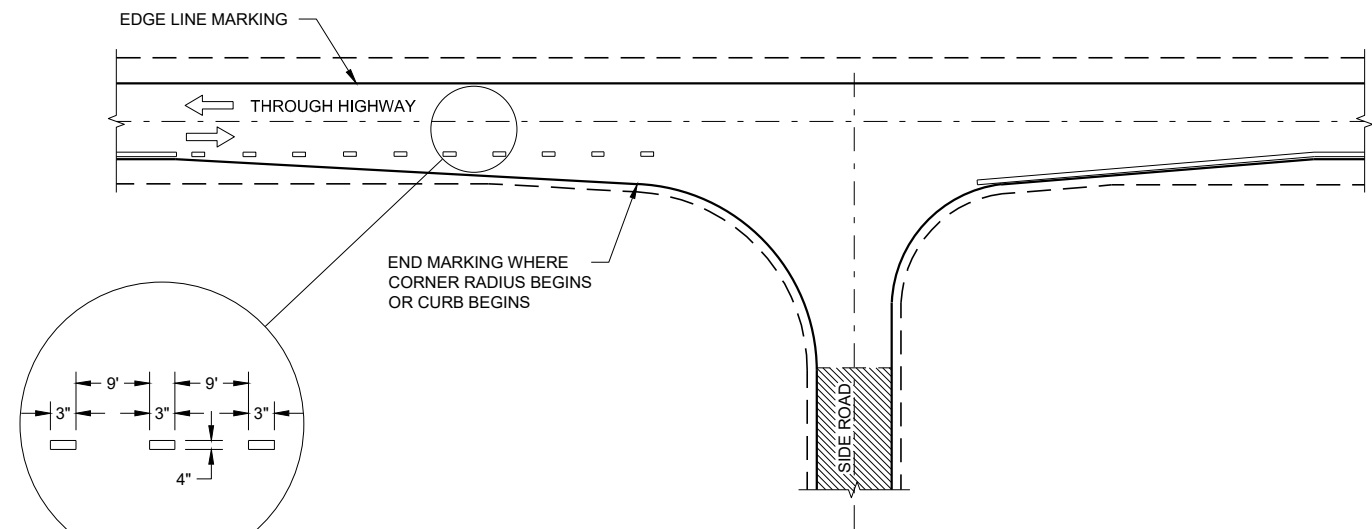
LEGEND

- 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)

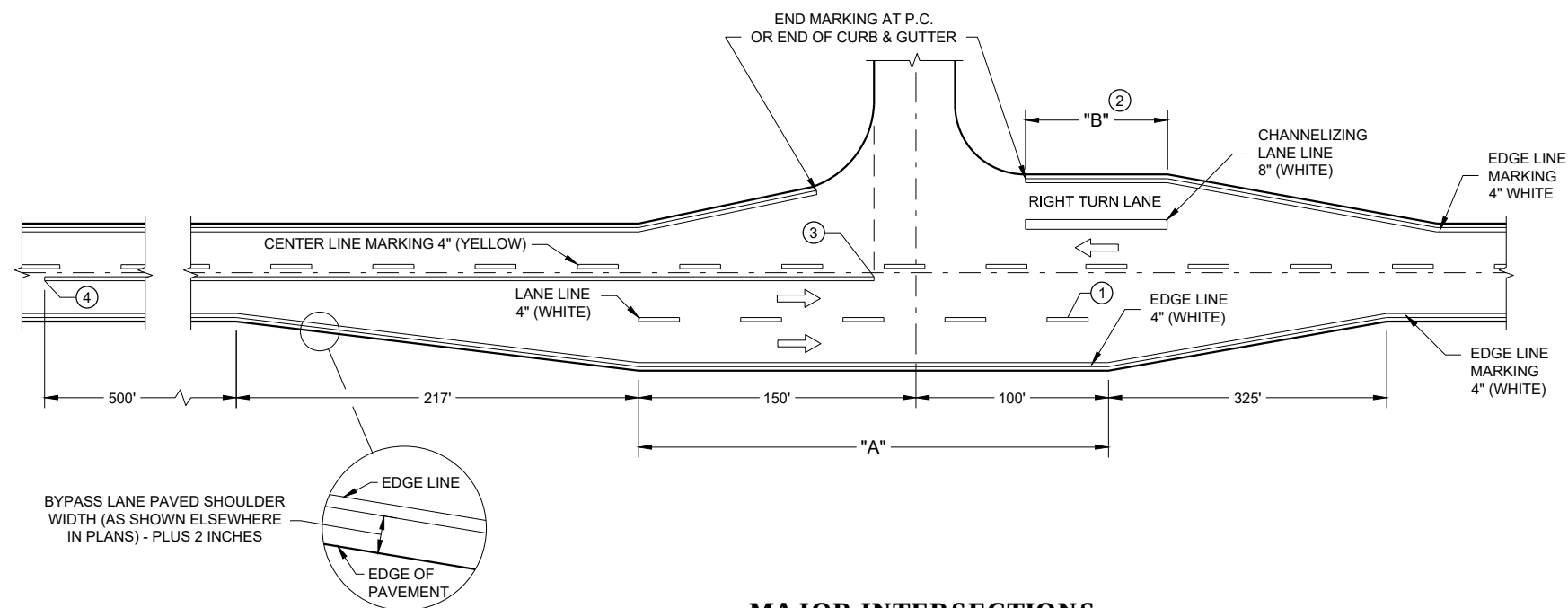
MOVING PAVEMENT MARKING
OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE Sept., 2017 /S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA



MINOR INTERSECTION



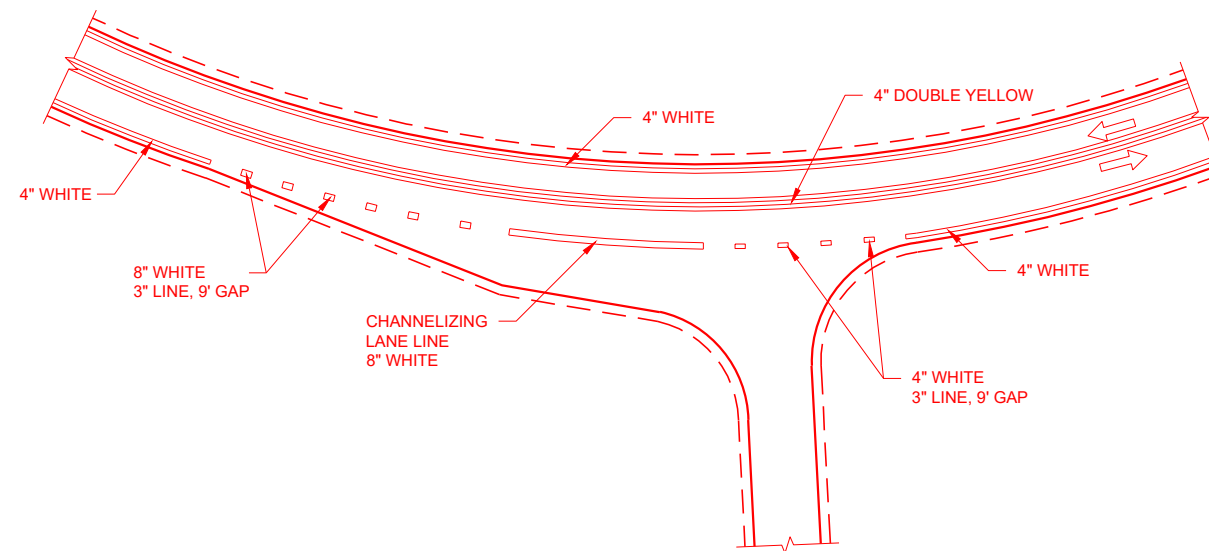
MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES 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 BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER

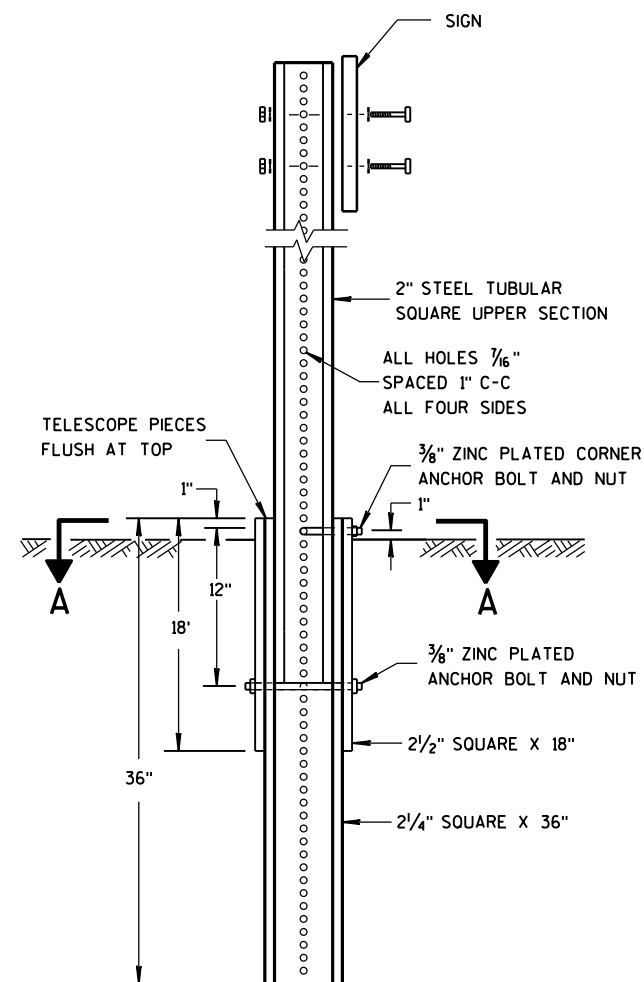
ARROW SYMBOL (➞) SHOWS DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

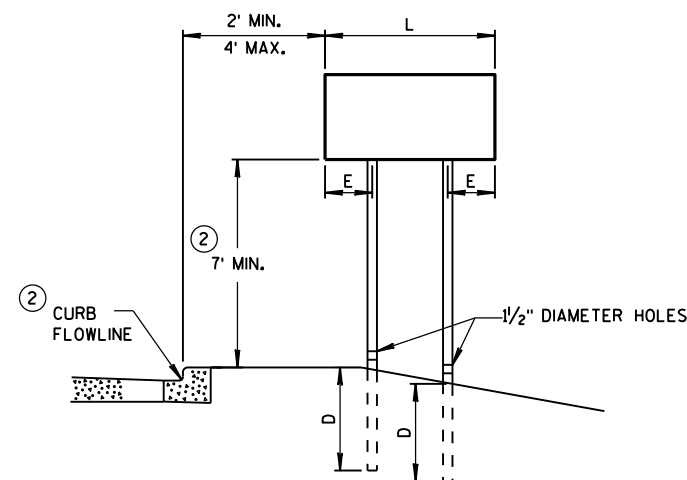
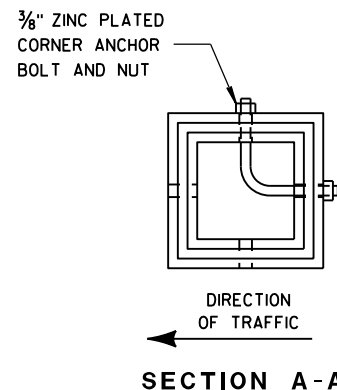


DETAIL OF TUBULAR STEEL SIGN POST

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).
SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

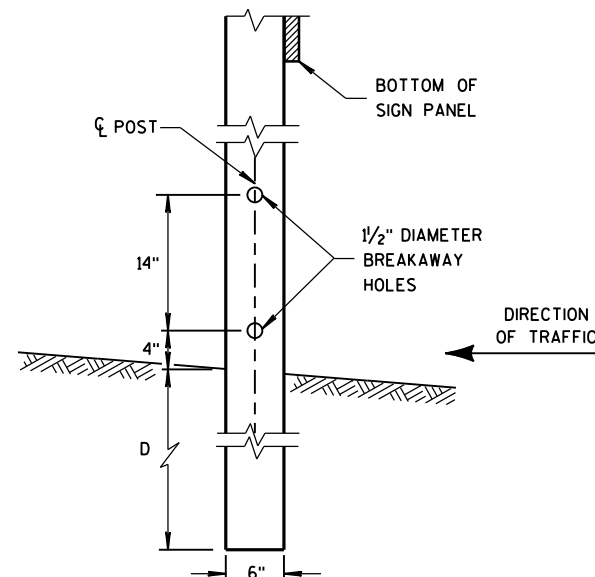


URBAN AREA

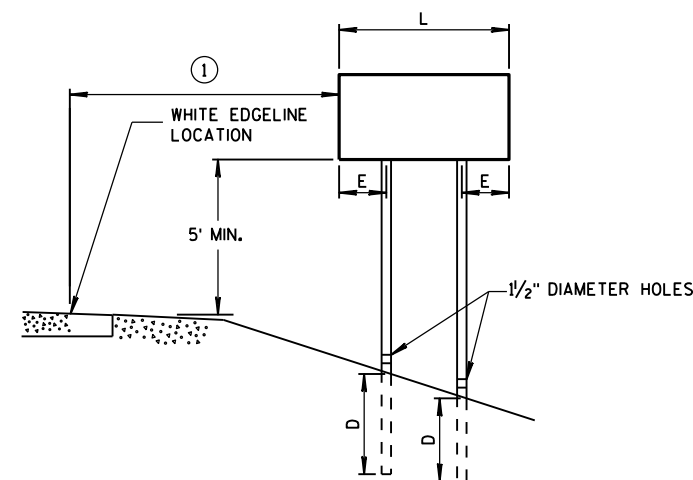
POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'



4" x 6" WOOD POST MODIFICATION



RURAL AREA

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

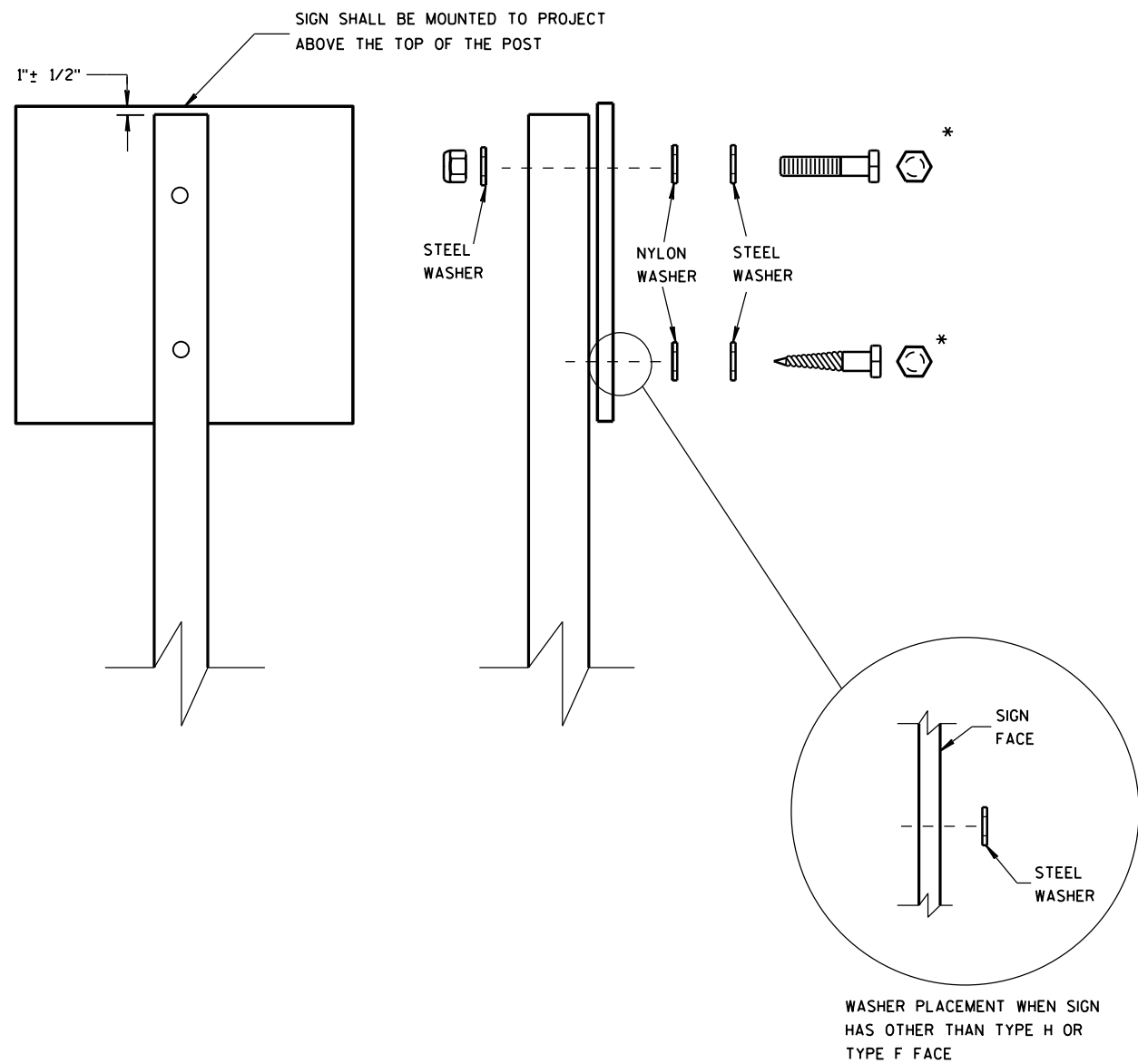
SEE NOTE ③

GENERAL NOTES

- ① 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- ② THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- ③ FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" X 3"
 - MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

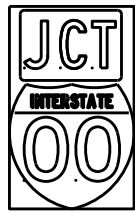
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS
 - RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

- WASHERS (ALL POSTS) -
- 1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
 - 1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

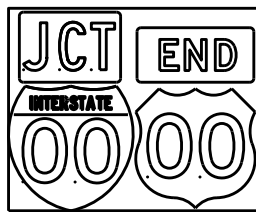
* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

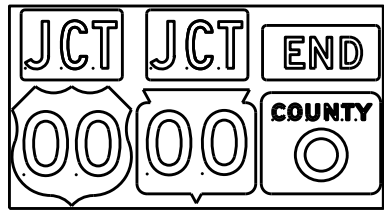
TYPICAL ASSEMBLIES



J1-1



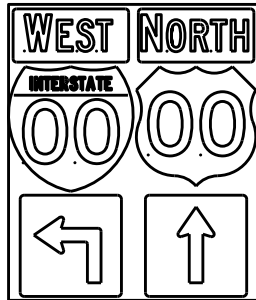
J1-2



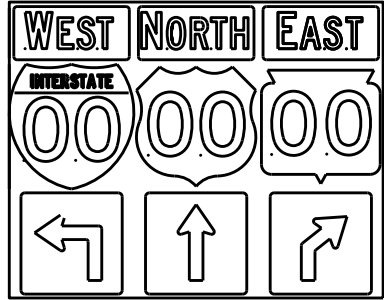
J1-3



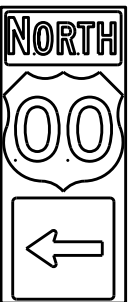
J2-1



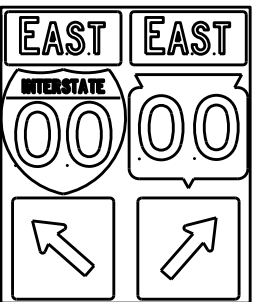
J2-2



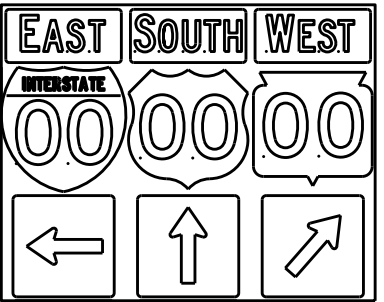
J2-3



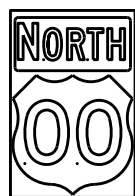
J3-1



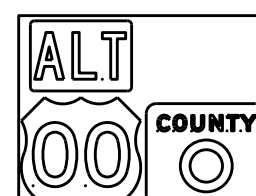
J3-2



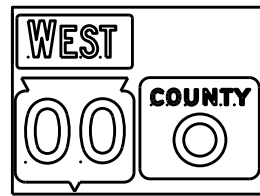
J3-3



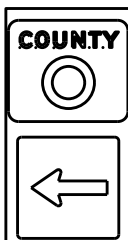
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

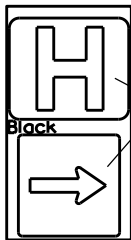


J22-1



JV

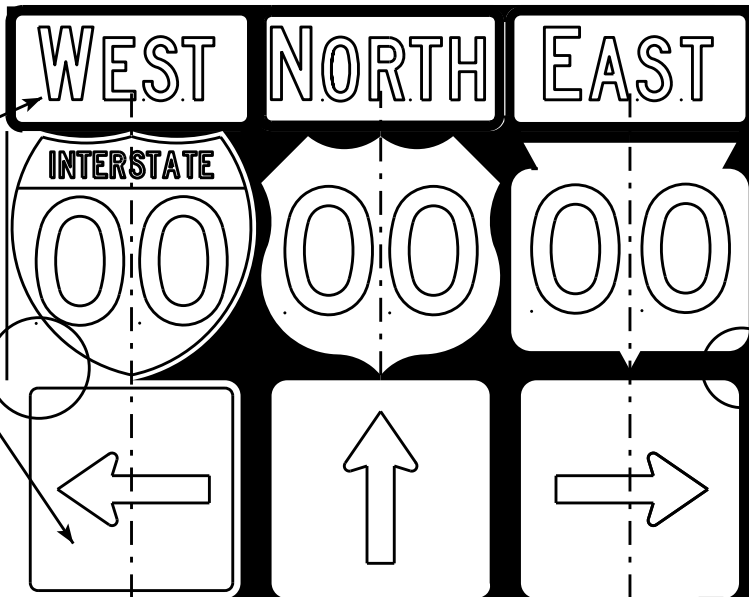
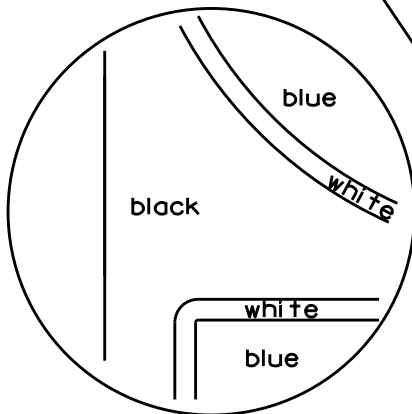
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

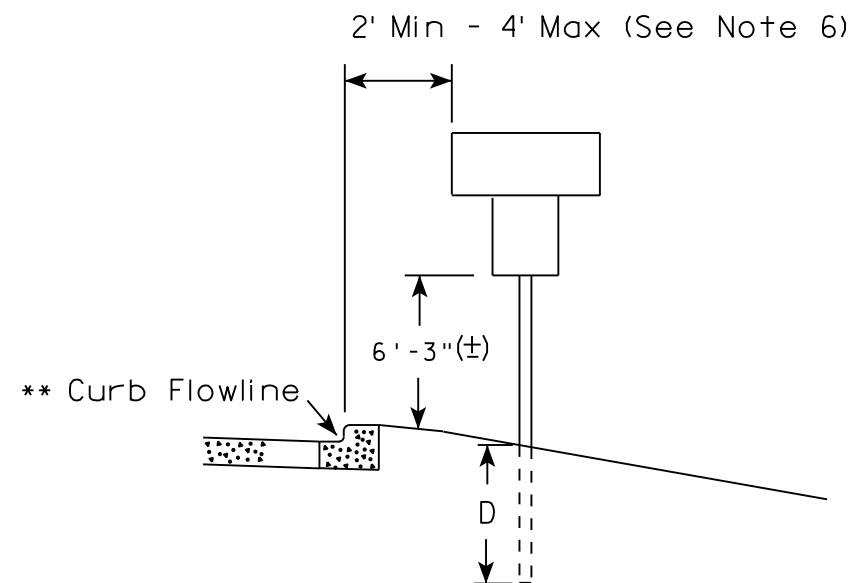
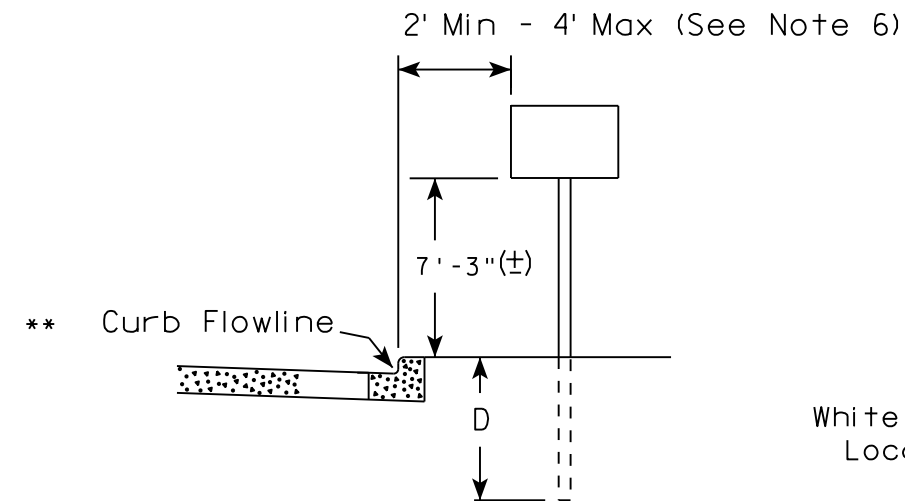
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/06/14 PLATE NO. A2-1S.8

NOTES

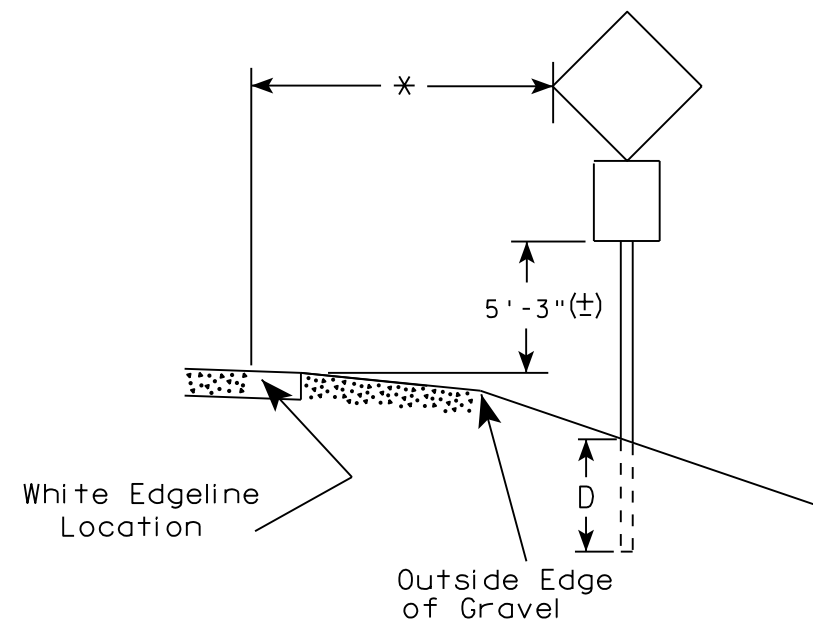
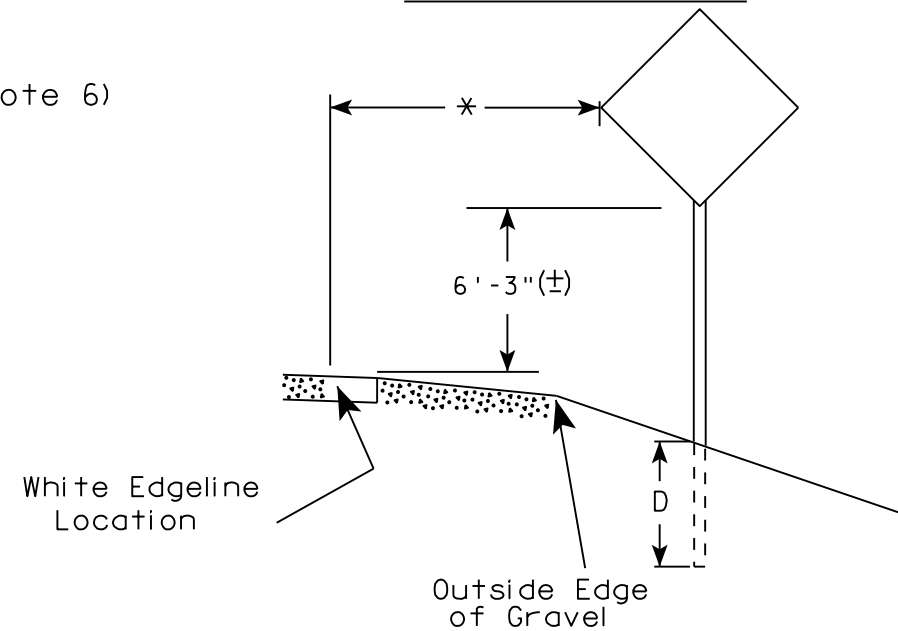
1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Black Non-reflective
Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

URBAN AREA



✱✱ The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

RURAL AREA (See Note 2)



* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

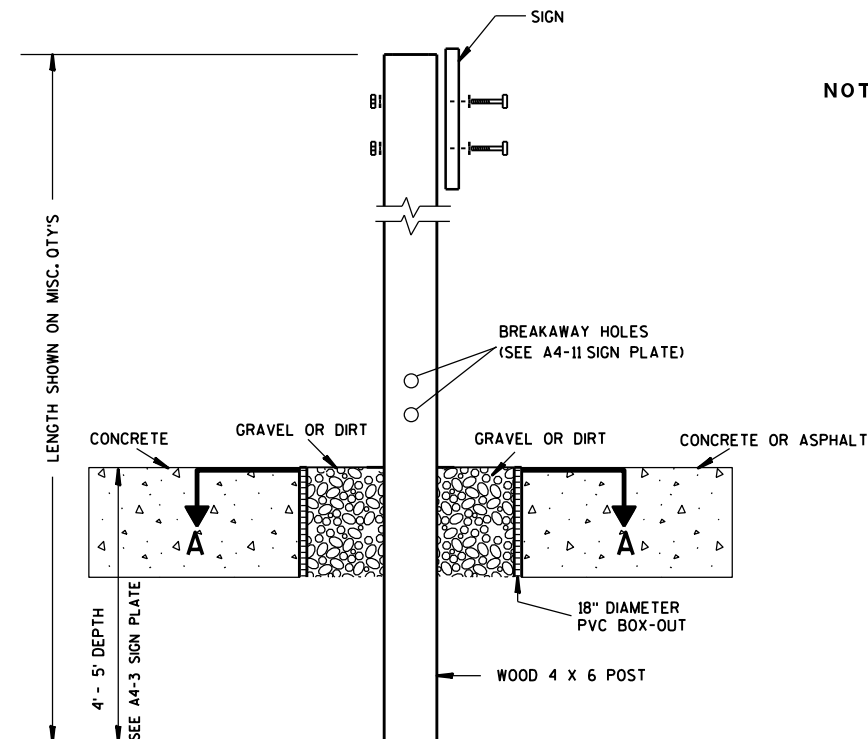
1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'-3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

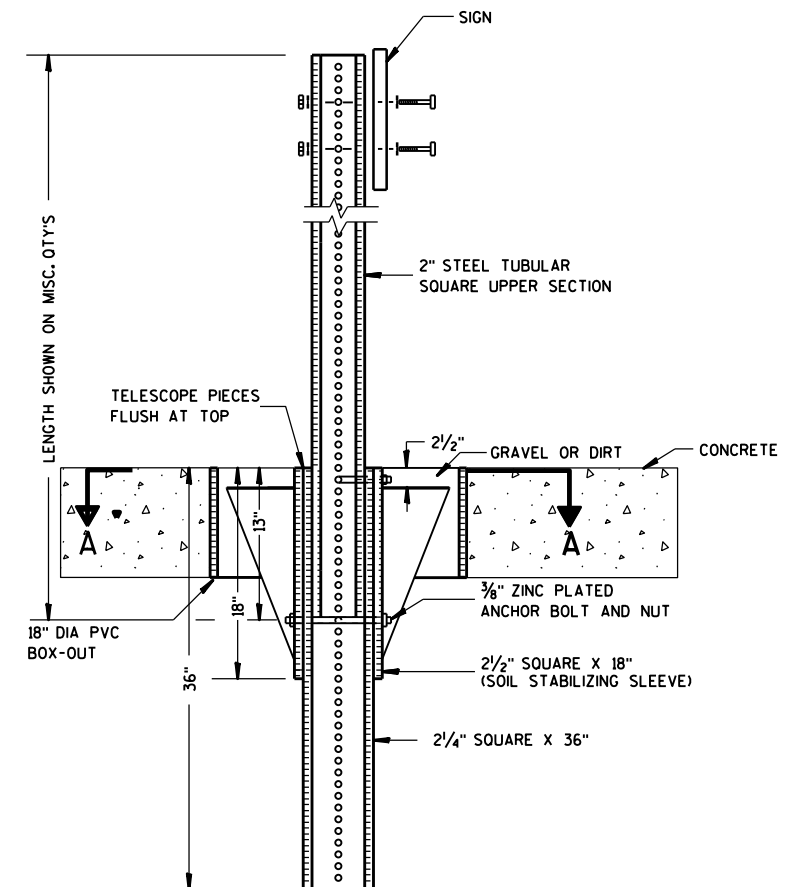
DATE 8/21/17 PLATE NO. A4-3.21



ELEVATION VIEW

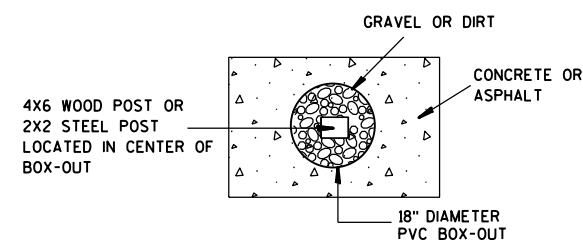
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- NOTES: 1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST
BOX-OUTS
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

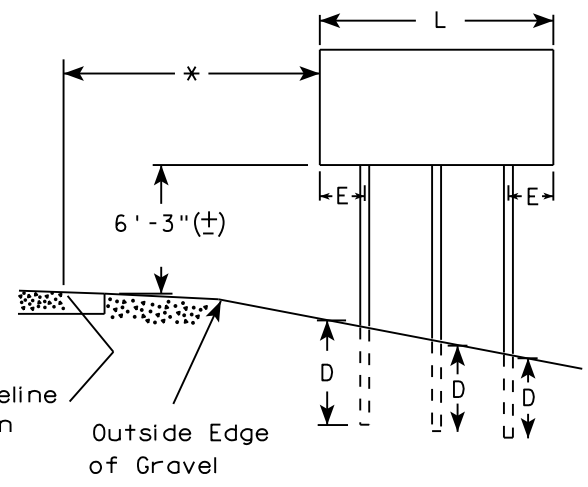
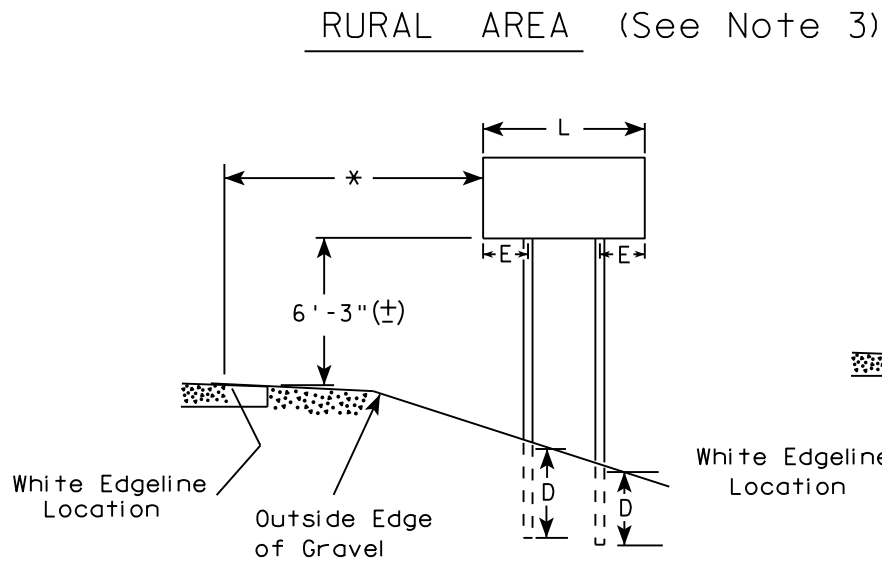
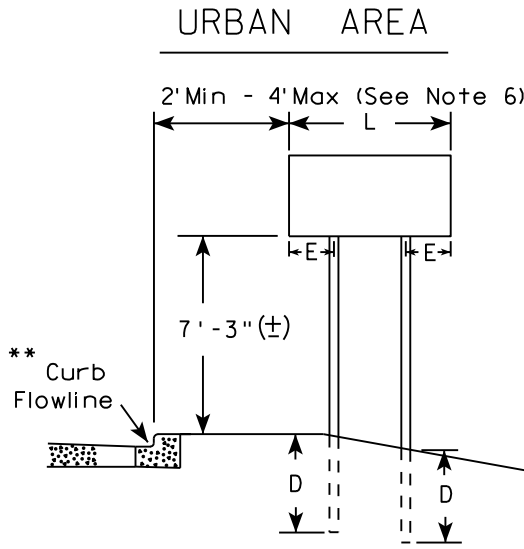
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

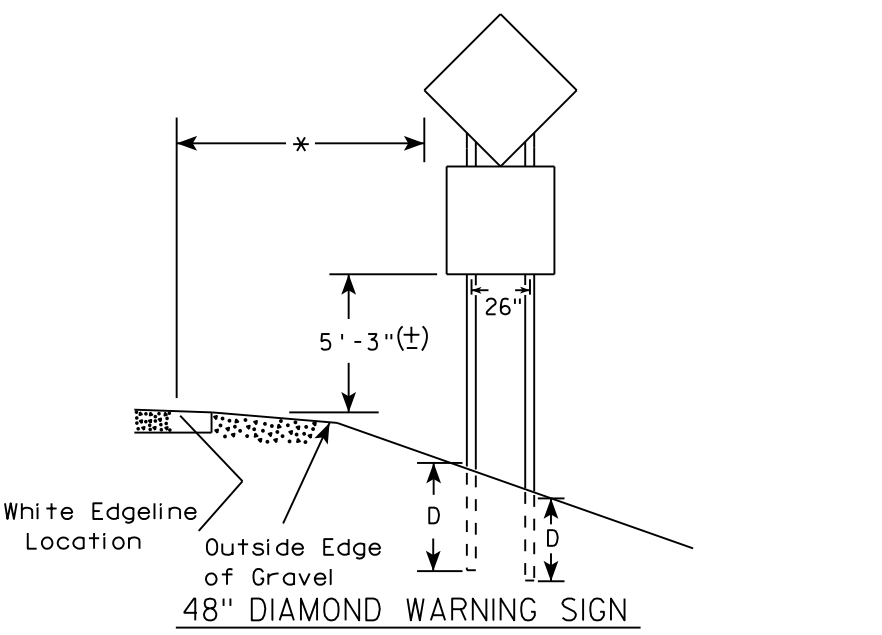
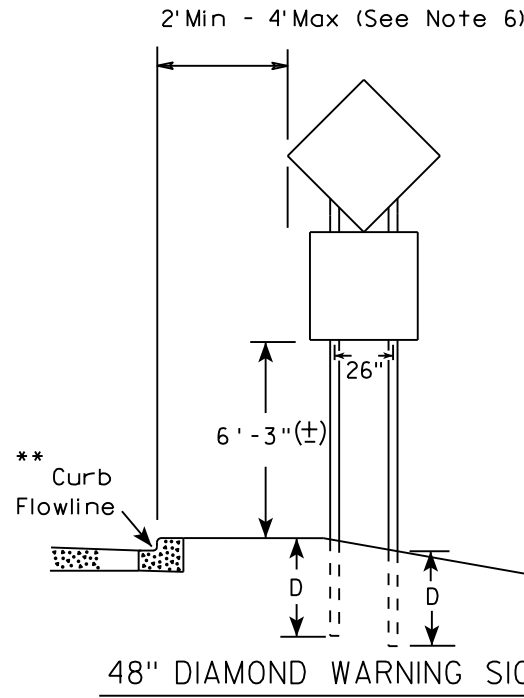


- GENERAL NOTES
1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
 2. See tables below for required number of posts.
 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
 4. The (±) tolerance for mounting height is 3 inches.
 5. J-Assemblies are considered to be one sign for mounting height.
 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.



SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

POST EMBEDMENT DEPTH

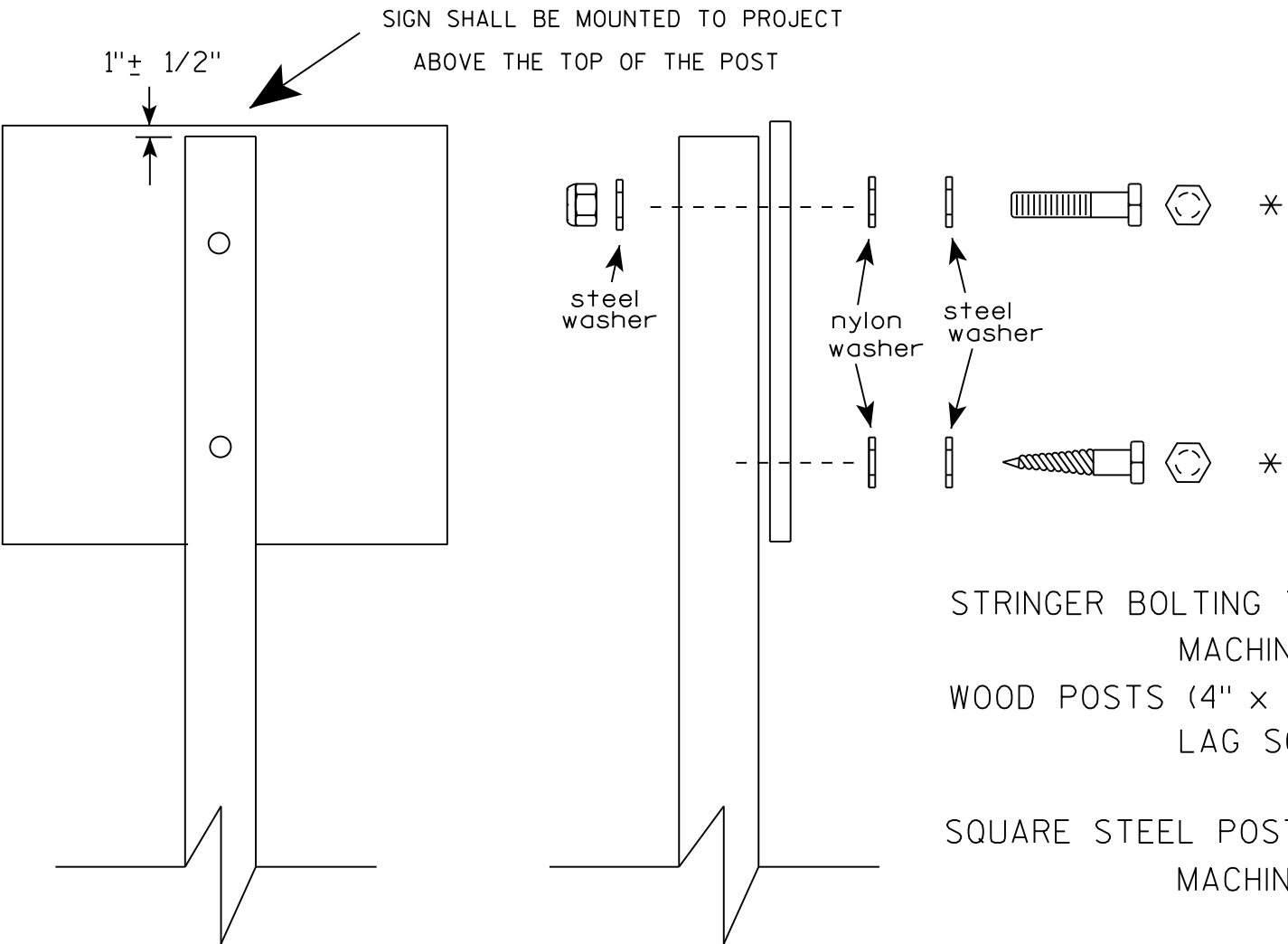
Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

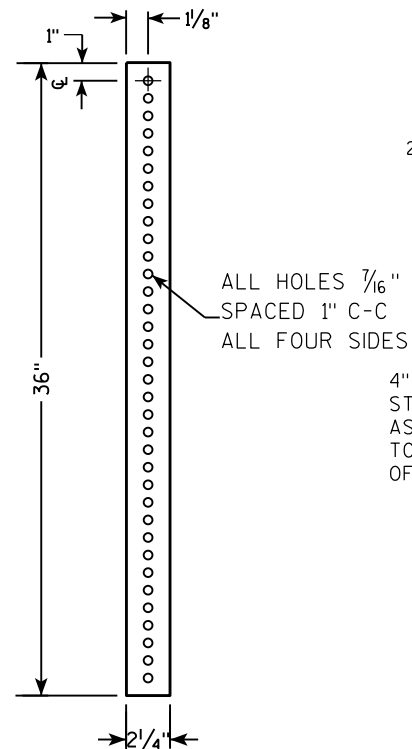
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
 - 3/8" X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
 - 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
- O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
 - 1-1/4" O.D. X 3/8" I.D. X .080 NYLON

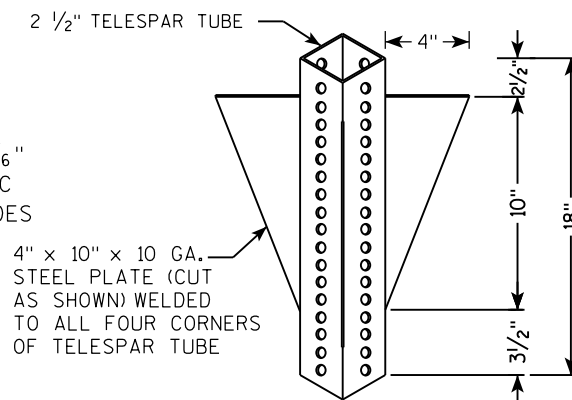
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 8/11/16	PLATE NO. A4-8.8

**2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH**



**2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH**



LENGTH SHOWN ON MISC. QTY'S
 18" DIA SCHEDULE 40 PVC BOX-OUT
 TELESCOPE PIECES FLUSH AT TOP
 36"
 18"
 13"
 2 1/2"
 2 1/4" SQUARE X 36"
 2 1/2" SQUARE X 18" (SOIL STABILIZING SLEEVE)
 3/8" ZINC PLATED ANCHOR BOLT AND NUT
 2 1/2" GRAVEL OR DIRT
 3/8" ZINC PLATED CORNER ANCHOR BOLT AND NUT
 ALL HOLES 7/16" SPACED 1" C-C ALL FOUR SIDES
 2" STEEL TUBULAR SQUARE UPPER SECTION
 SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL
 SIGN

LENGTH SHOWN ON MISC. QTY'S

TELESCOPE PIECES FLUSH AT TOP

2" STEEL TUBULAR SQUARE UPPER SECTION

ALL HOLES $\frac{7}{16}$ " SPACED 1" C-C ALL FOUR SIDES

$\frac{3}{8}$ " ZINC PLATED CORNER ANCHOR BOLT AND NUT

1"

$\frac{3}{8}$ " ZINC PLATED ANCHOR BOLT AND NUT

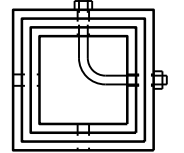
2 1/2" SQUARE X 18" (SOIL STABILIZING SLEEVE)

2 1/4" SQUARE X 36"

SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL

SIGN

3/8" ZINC PLATED CORNER
ANCHOR BOLT AND NUT



DIRECTION
OF TRAFFIC

SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthieu R. Rauch

for State Traffic Engineer

DATE 2/05/15 PLATE NO. A4-9.9

PROJECT NO:

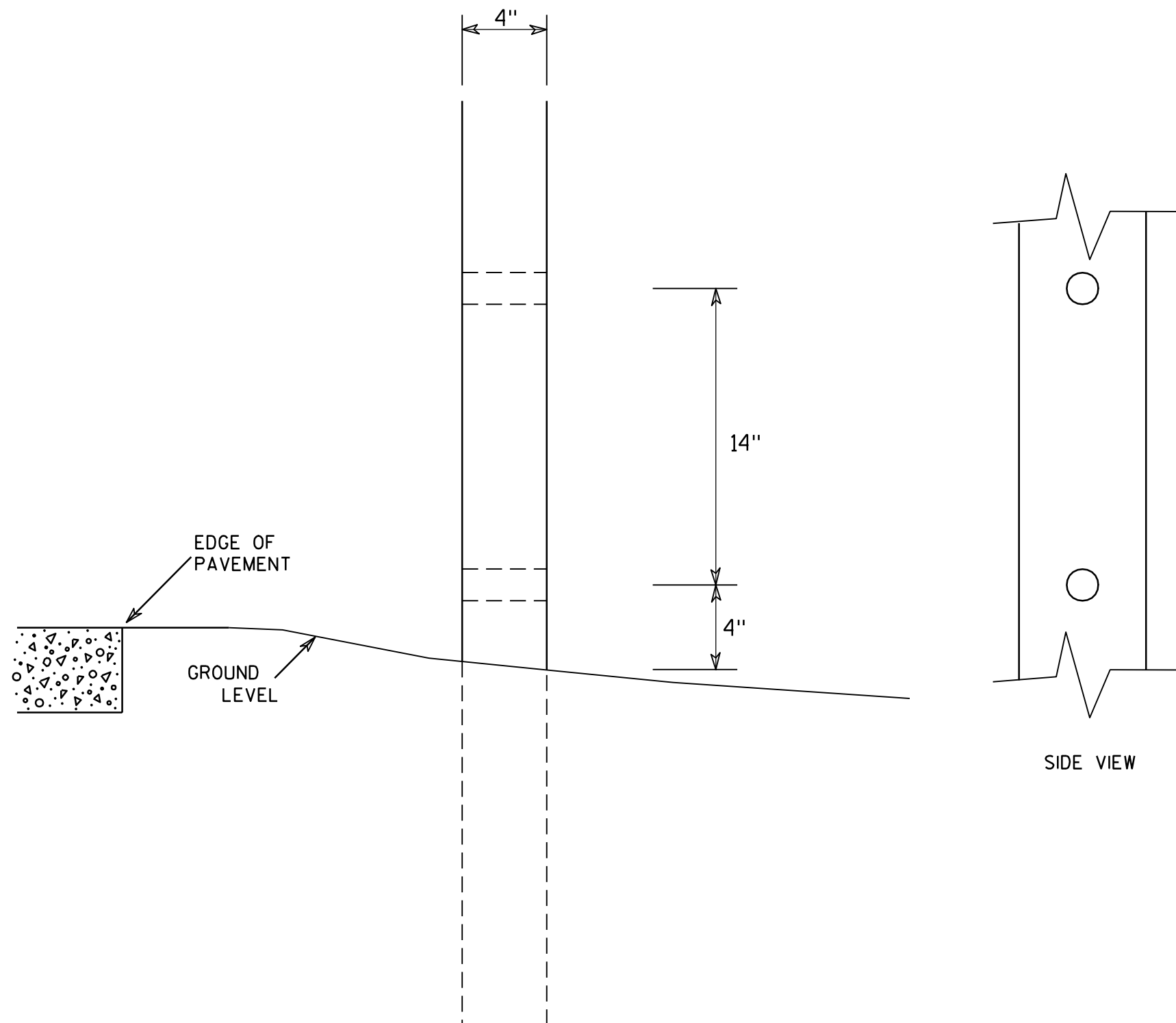
HWY:

COUNTY:

SHEET NO:

11

7



GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

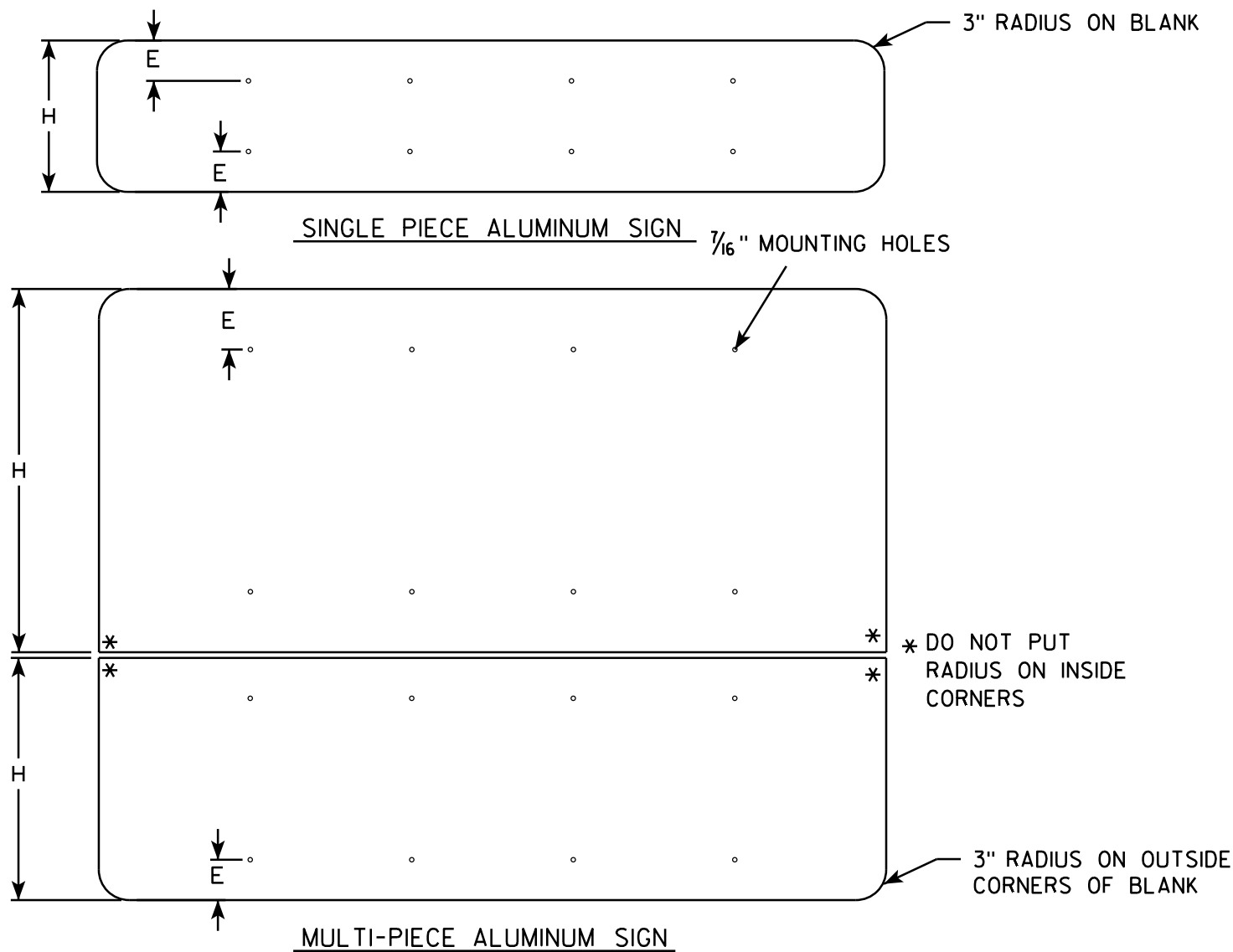
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

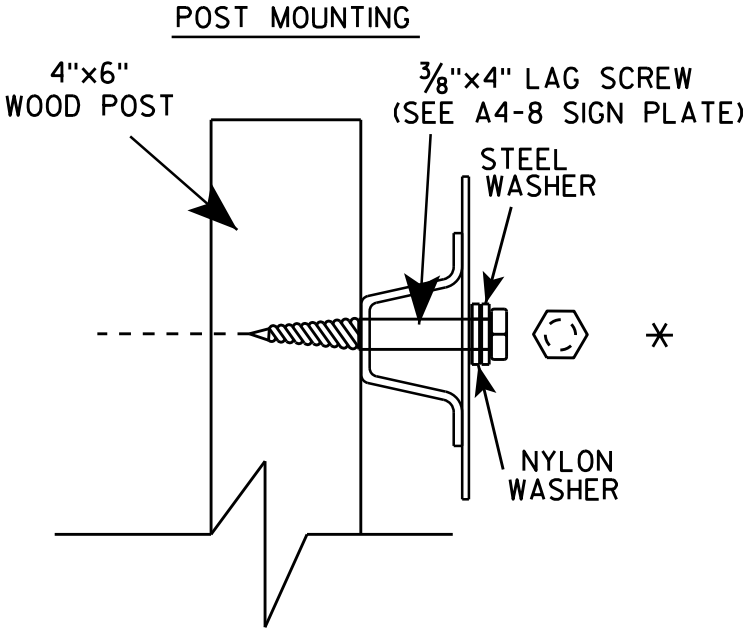
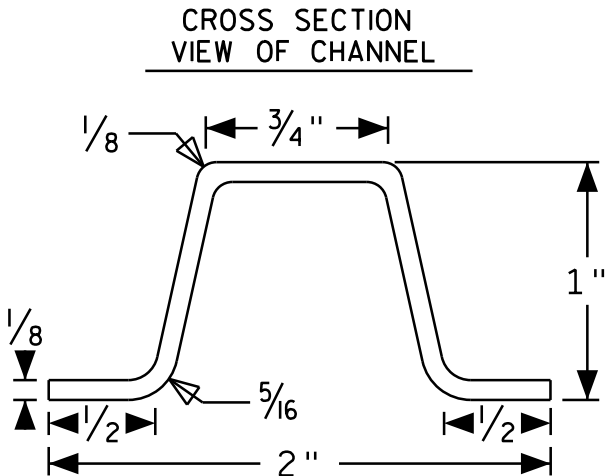
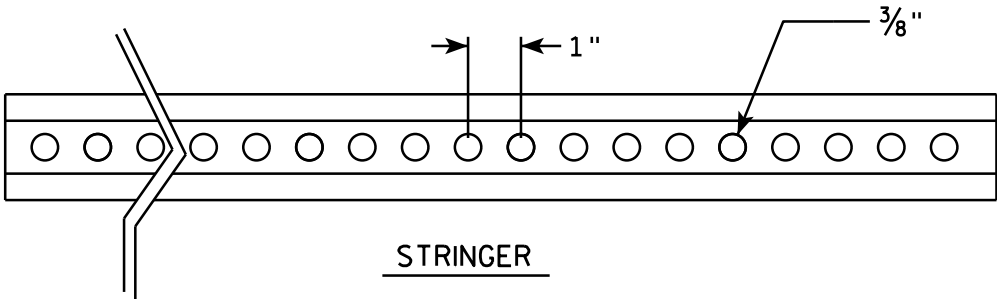
E



GENERAL NOTES

- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES			
78"	72"	2	16"	15"	31"	47"	63"
84"	72"	2	17"	16 1/2"	33 1/2"	50 1/2"	67 1/2"
90"	72"	2	18"	18"	36"	54"	72"
96"	90"	2	19"	19 1/2"	38 1/2"	57 1/2"	76 1/2"
102"	90"	2	20"	21"	41"	61"	81"
108"	90"	2	21"	22 1/2"	43 1/2"	64 1/2"	85 1/2"
114"	108"	3	15"	12"	27"	42"	57" 72" 87" 102"
120"	108"	3	16"	12"	28"	44"	60" 76" 92" 108"
126"	108"	3	17"	12"	29"	46"	63" 80" 97" 114"
132"	126"	3	18"	12"	30"	48"	66" 84" 102" 120"
138"	126"	3	19"	12"	31"	50"	69" 88" 107" 126"
144"	126"	3	20"	12"	32"	52"	72" 92" 112" 132"



SIGN STRINGER
MOUNTING REQUIREMENTS

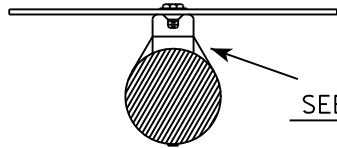
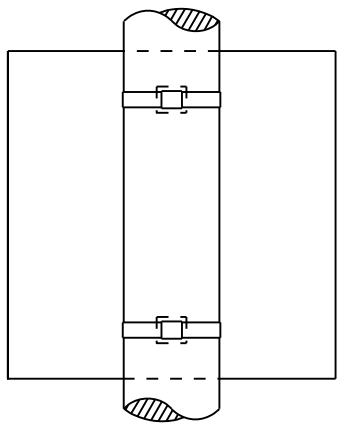
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/26/16 PLATE NO. A4-18.1

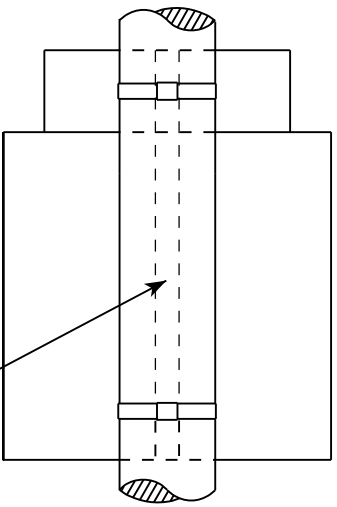
BANDING

SINGLE SIGN

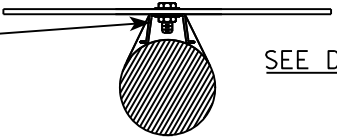


SEE DETAIL A

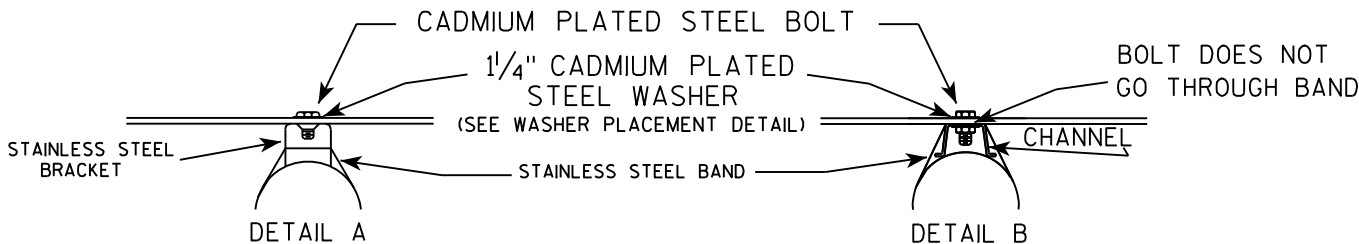
"J" ASSEMBLY



CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET



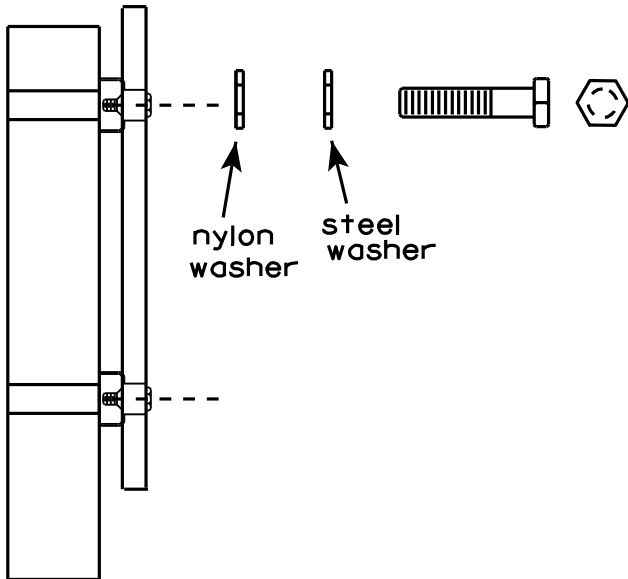
SEE DETAIL B



GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.

WASHER PLACEMENT



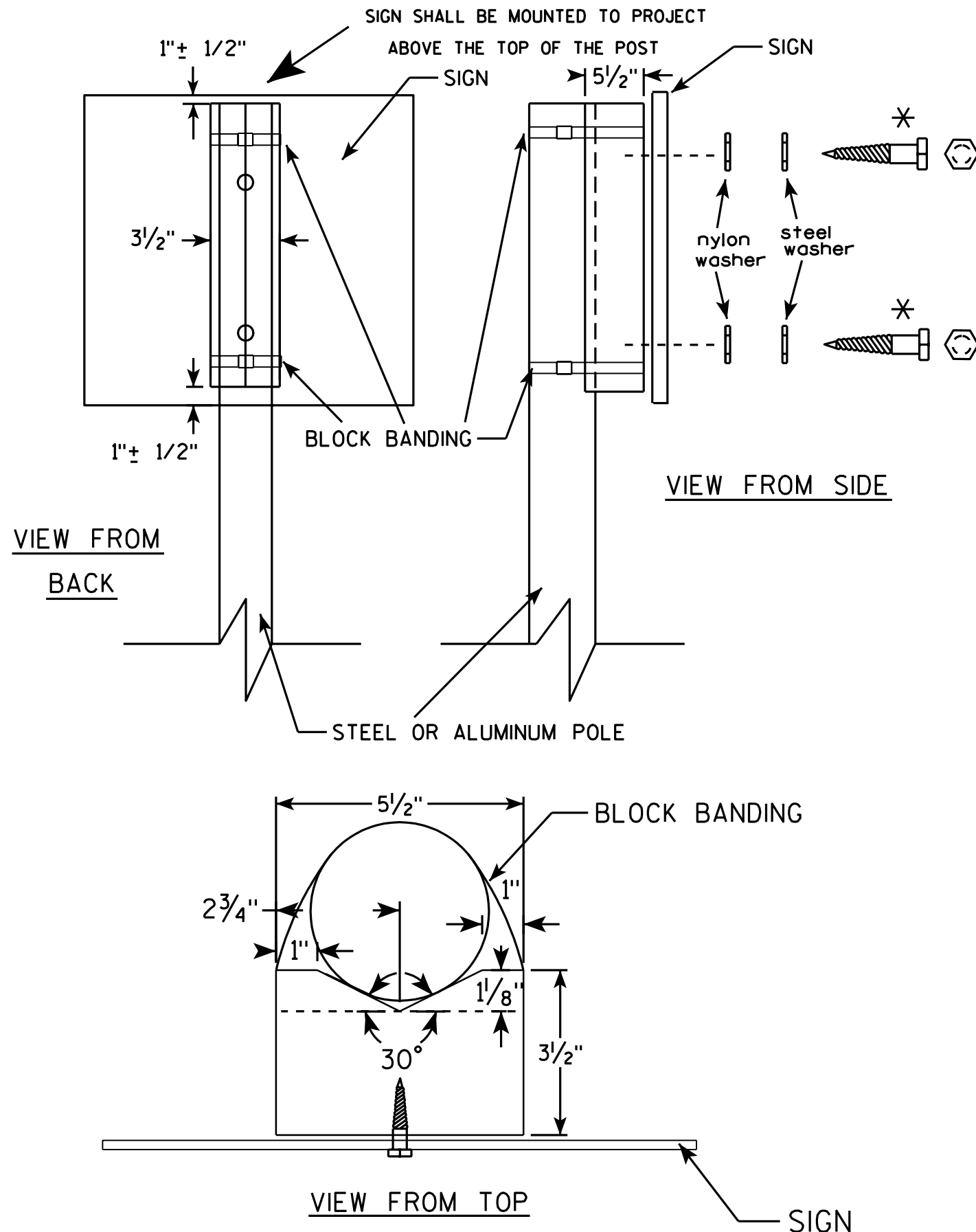
WASHERS (ALL POSTS) -
1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL
1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3



GENERAL NOTES

1. WOOD 4"x6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORMALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
 - b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
 - c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1 1/4" O.D. X 3/8" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1 1/4" O.D. X 3/8" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✱ LAG BOLTS SHALL BE 3/8" X 2 1/2"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

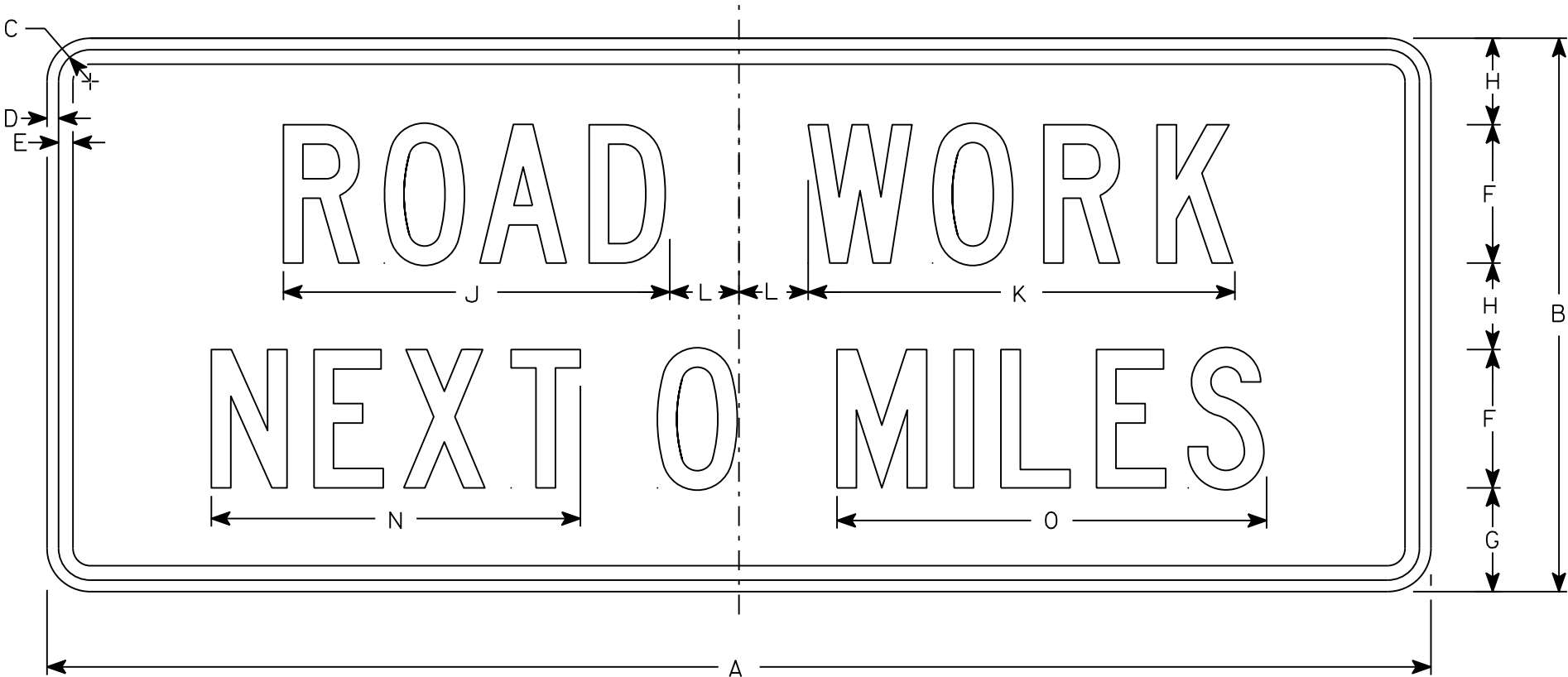
PROJECT NO:

SHEET NO:

E

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Orange
Message - Black
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance



G20-1

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	60	24	1 3⁄8	1⁄2	5⁄8	6	4 1⁄2	3 3⁄4		16 3⁄4	18 1⁄2	3		16	18 5⁄8												10
3																											
4	60	24	1 3⁄8	1⁄2	5⁄8	6	4 1⁄2	3 3⁄4		16 3⁄4	18 1⁄2	3		16	18 5⁄8												10
5																											

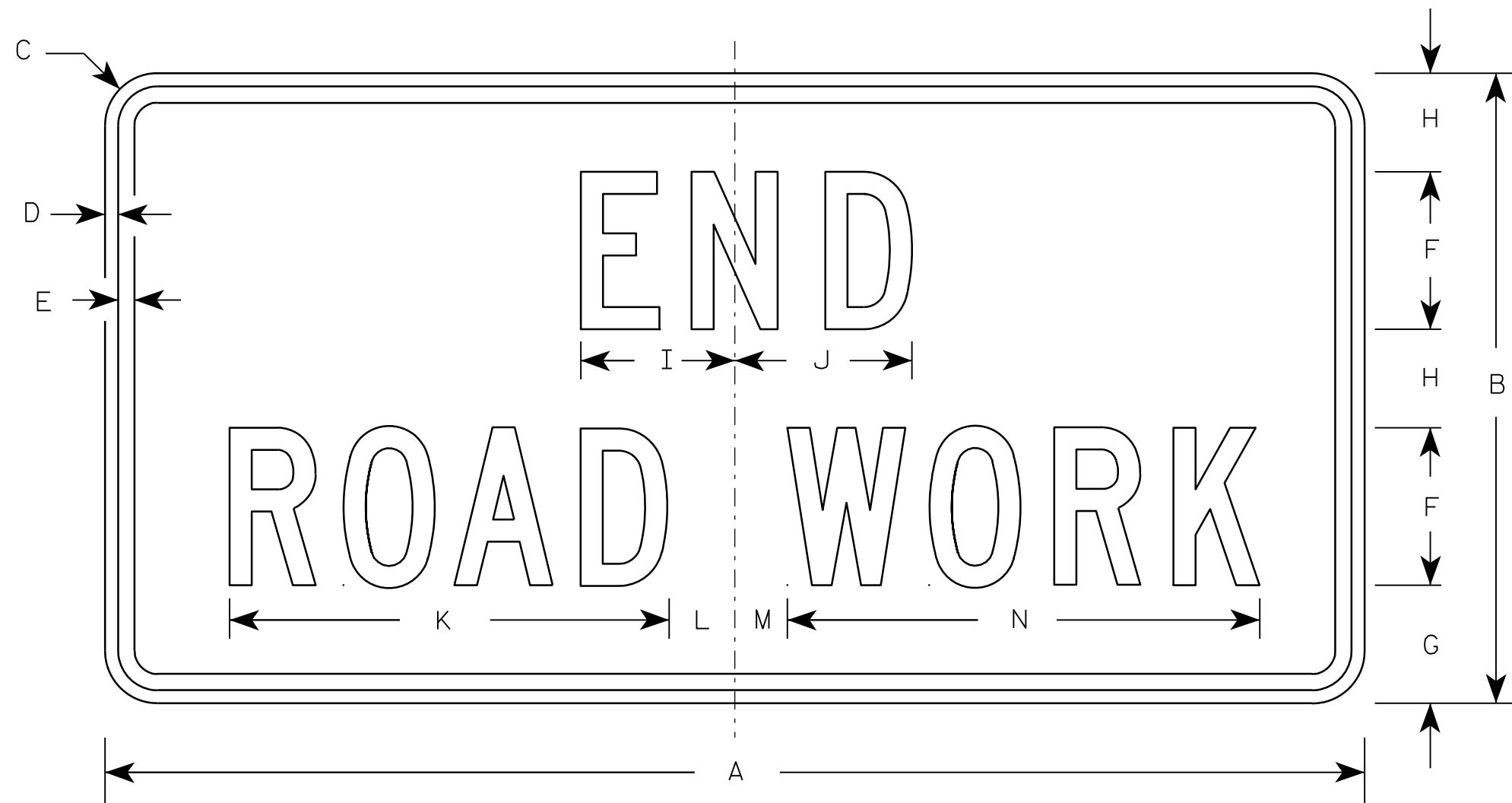
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

7



G20-2A

Metric equivalent
for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

NOTES

- Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Orange
Message - Black
- Message Series - C
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

7

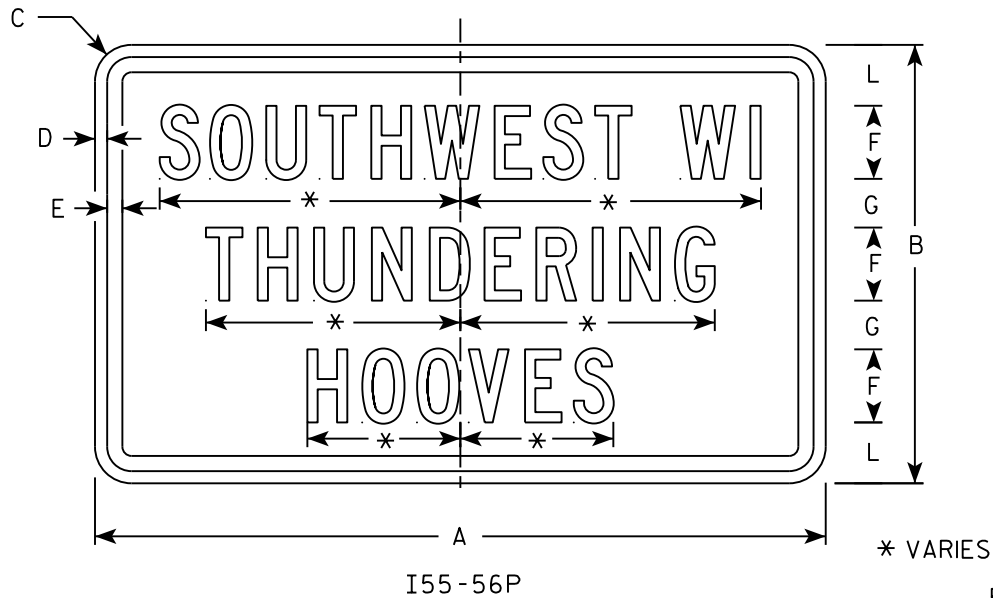
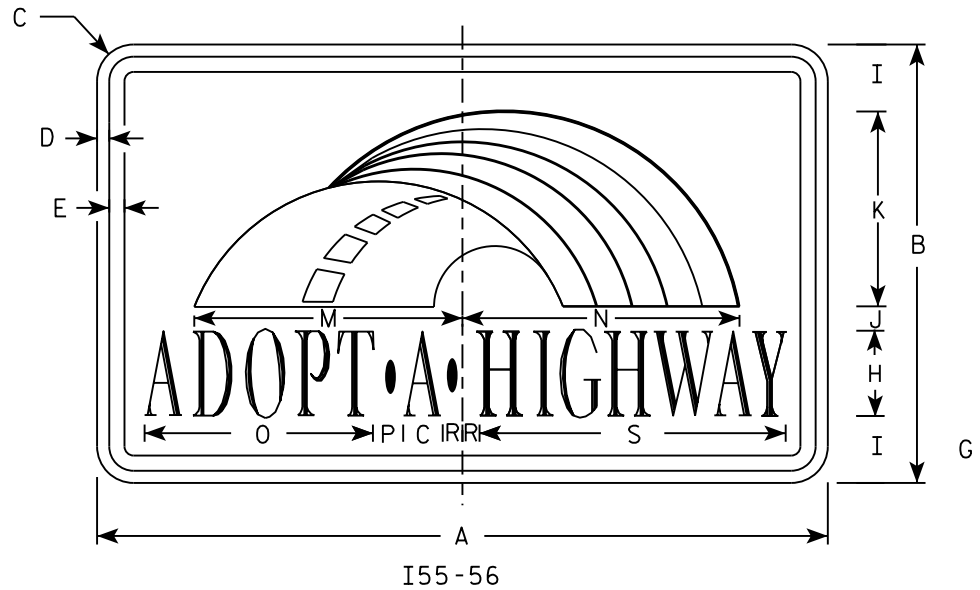
PROJECT NO:

HWY:

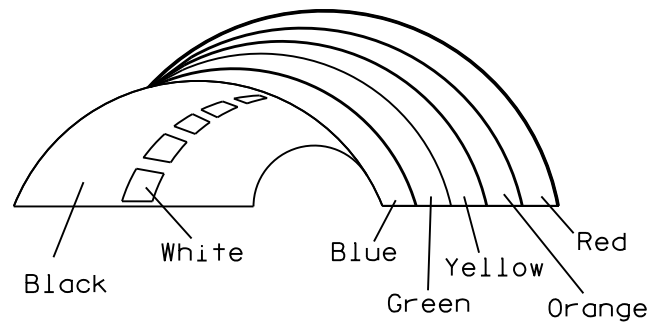
COUNTY:

SHEET NO:

E



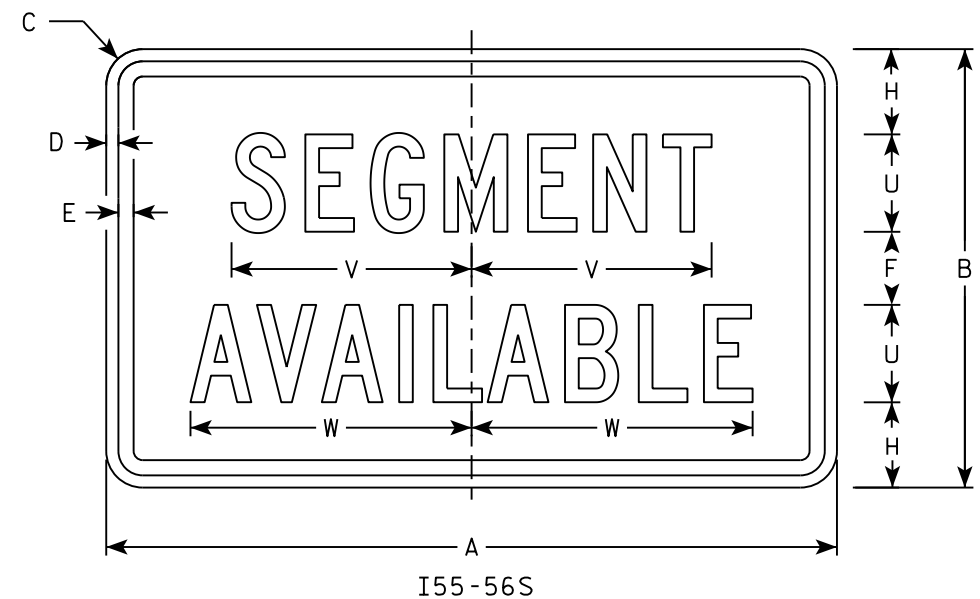
Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - (See Note 4)
3. Message Series - (See Note 5)
4. Border - Blue
Adopt a Highway - Red
All other Text - Blue
5. Adopt a Highway - Dutch 8011L
All other Text - Series C
6. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	18	1 1/2	1/2	5/8	3	2	3 1/2	2 3/4	1	8	2 1/2	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2	4	9 7/8	11 1/2				3.75
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

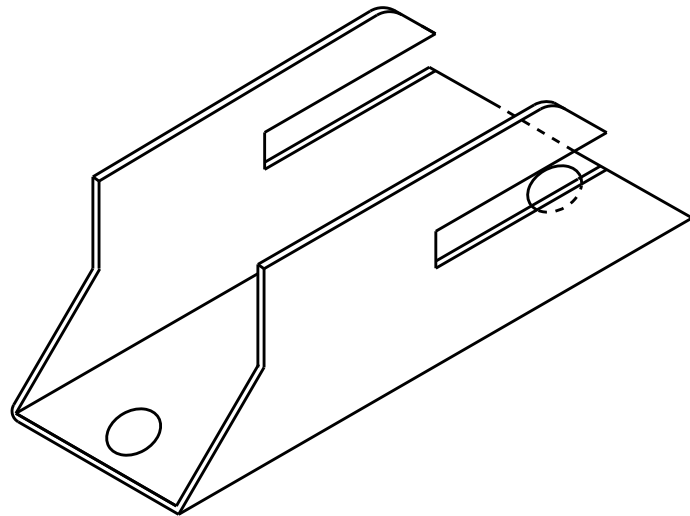
STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

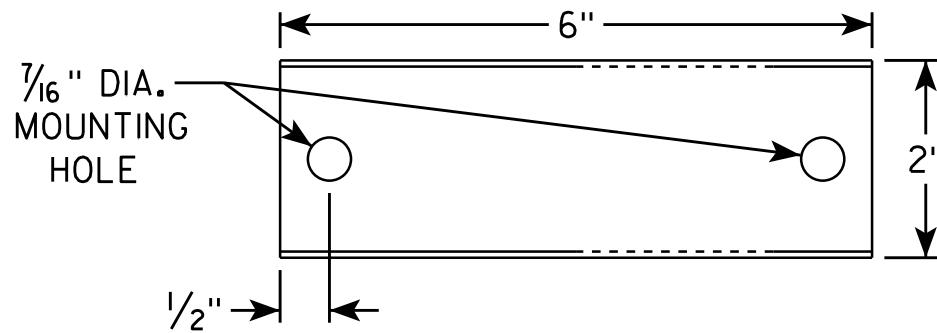
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/20/18 PLATE NO. I55-56.4

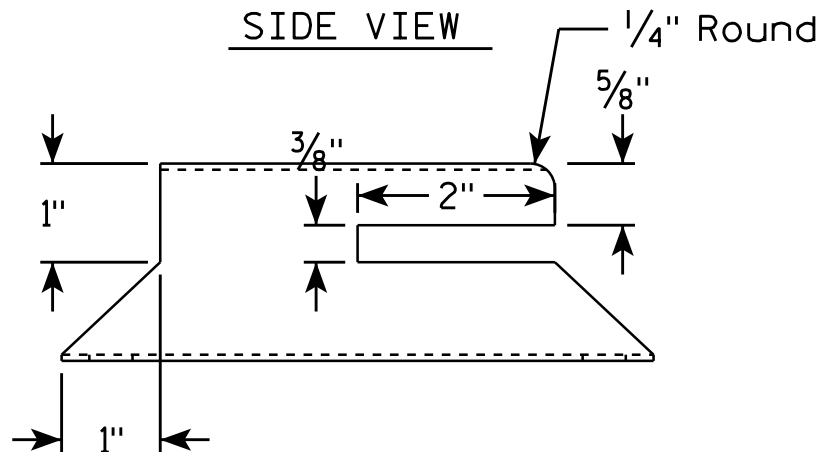
ISOMETRIC VIEW



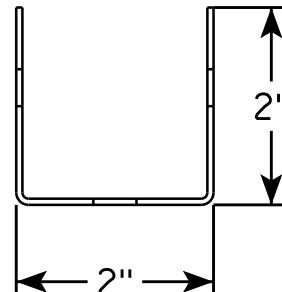
TOP VIEW



SIDE VIEW



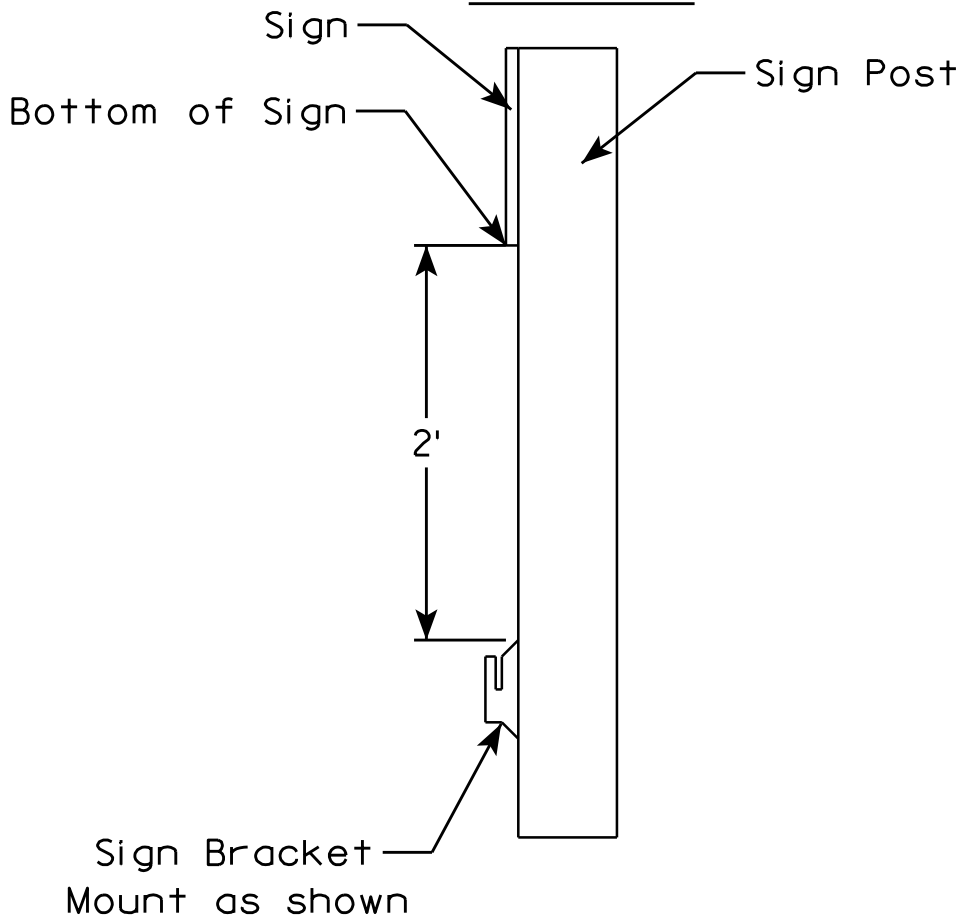
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/26/16 PLATE NO. I55-56B.2

PROJECT NO:

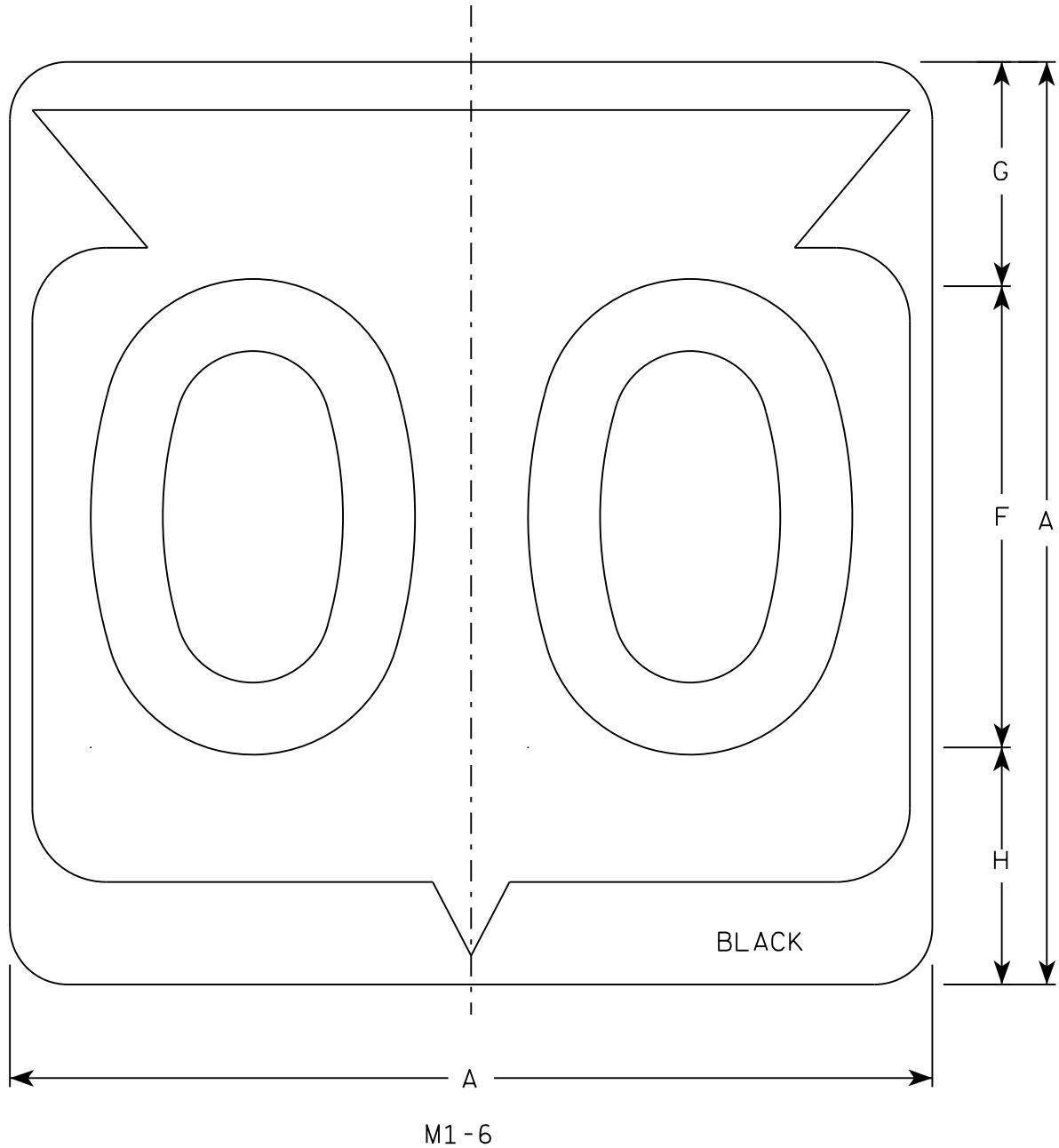
HWY:

COUNTY:

SHEET NO:

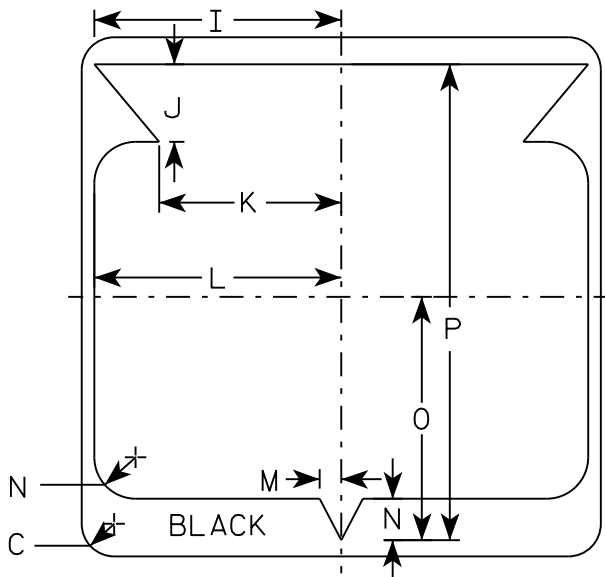
E

7



NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
Background - White
Message - Black
- 3. Message Series - D except 3 number signs Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

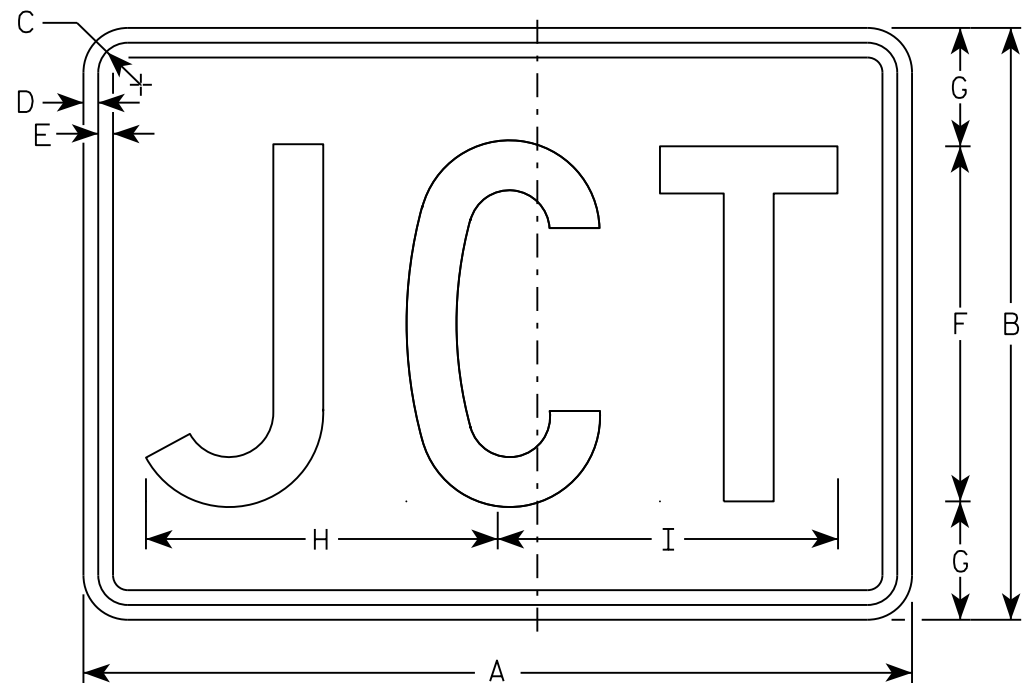
E

STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

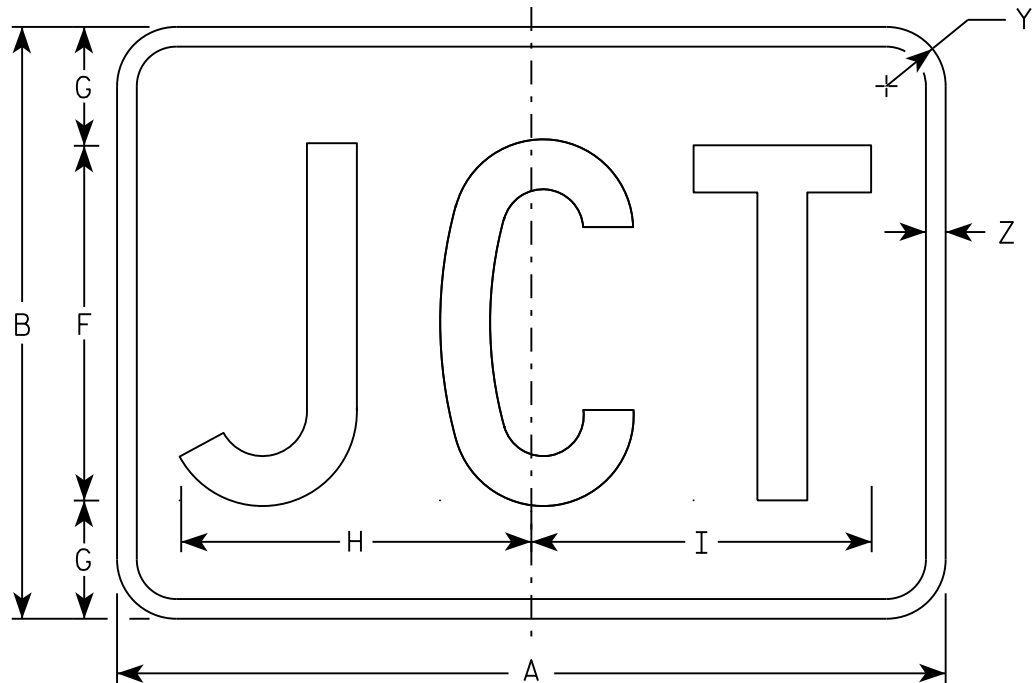
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

- 1. Sign is Type II - Type H
- 2. Color:
 - Background - See note 5
 - Message - See note 5
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M2-1 Background - White
 Message - Black
 MB2-1 Background - Blue
 Message - White
 MK2-1 Background - Green
 Message - White
 MM2-1 Background - White
 Message - Green
 MN2-1 Background - Brown
 Message - White
 MP2-1 Background - White
 Message - Blue
 MR2-1 Background - Brown
 Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

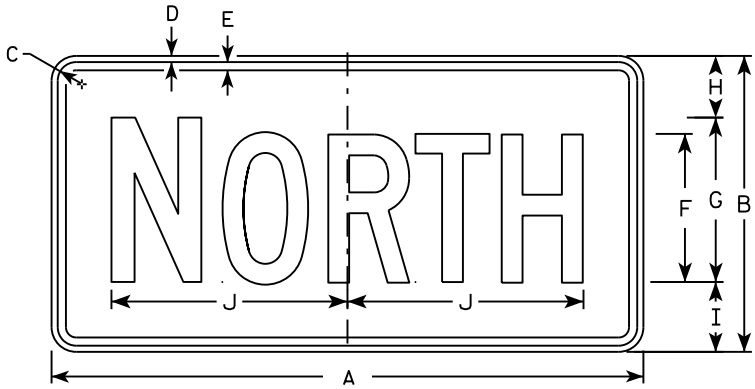
APPROVED

Matthew R. Rauch

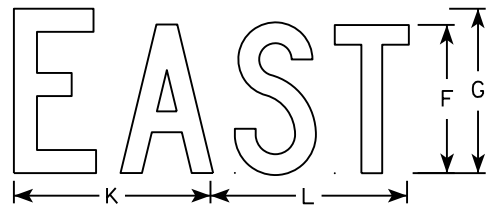
For State Traffic Engineer

DATE 10/15/15

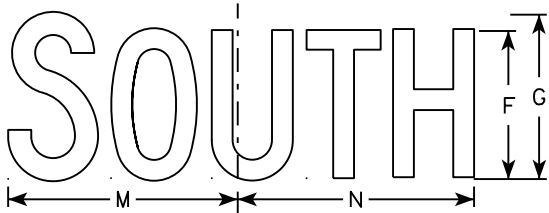
PLATE NO. M2-1.12



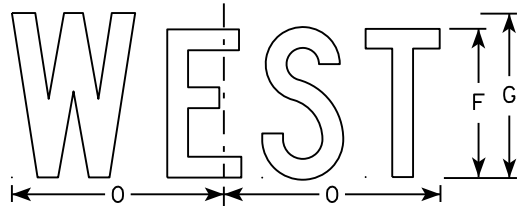
M3-1
MM3-1
MP3-1



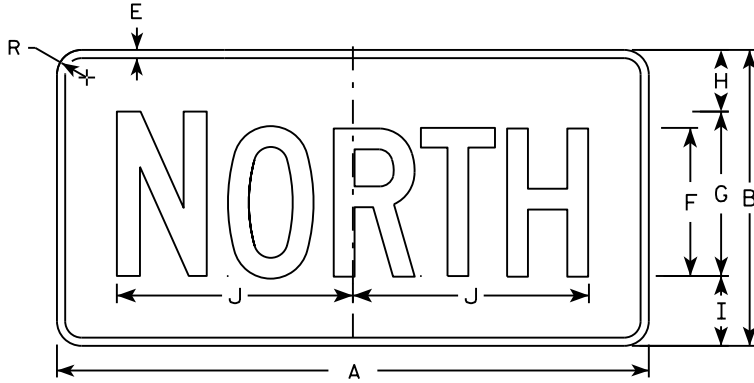
M3-2
MM3-2
MP3-2



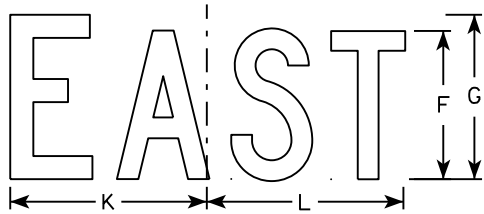
M3-3
MM3-3
MP3-3



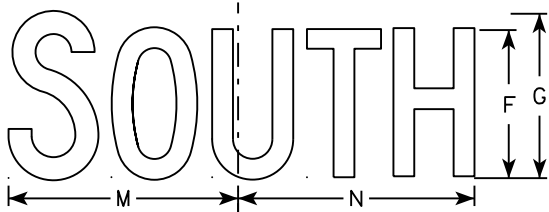
M3-4
MM3-4
MP3-4



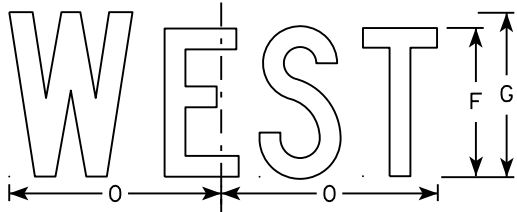
MB3-1
MK3-1
MN3-1



MB3-2
MK3-2
MN3-2



MB3-3
MK3-3
MN3-3



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
Message - Black
MB3-1 thru MB3-4 Background - Blue
Message - White
MK3-1 thru MK3-4 Background - Green
Message - White
MM3-1 thru MM3-4 Background - White
Message - Green
MN3-1 thru MN3-4 Background - Brown
Message - White
MP3-1 thru MP3-4 Background - White
Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

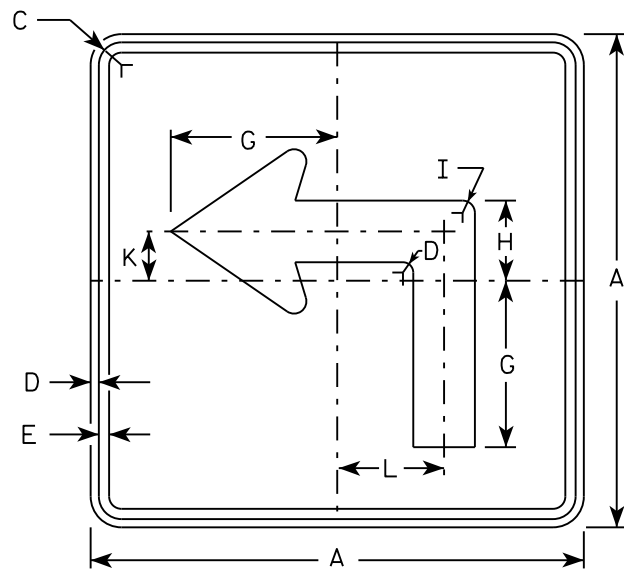
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thru M3-4
SERIES

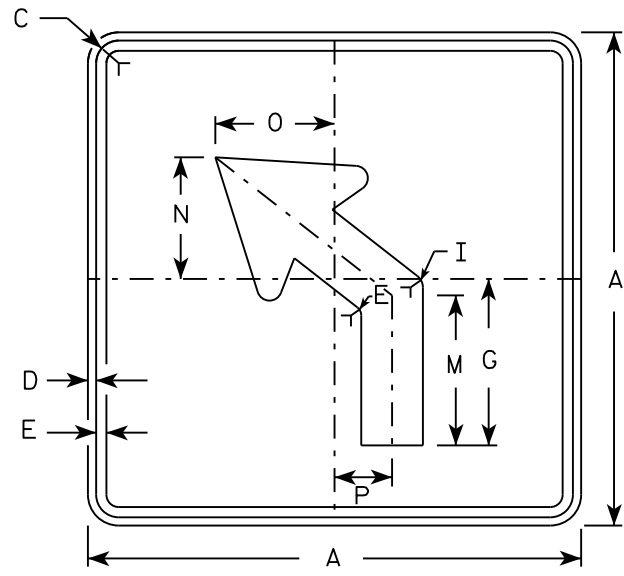
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

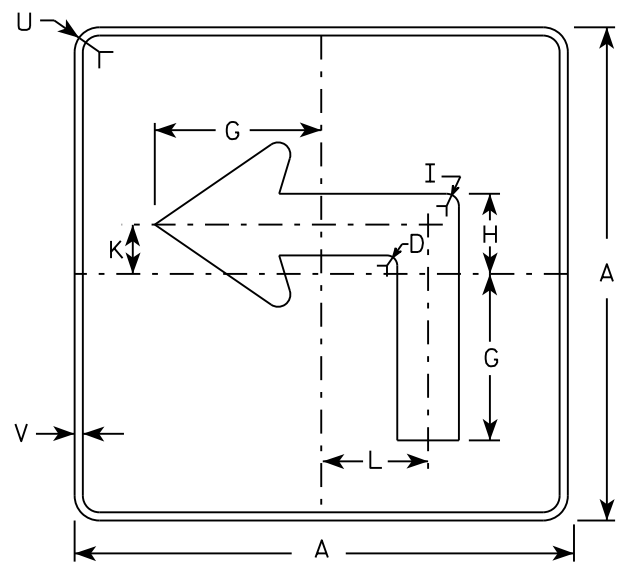
DATE 10/15/15 PLATE NO. M3-1.14



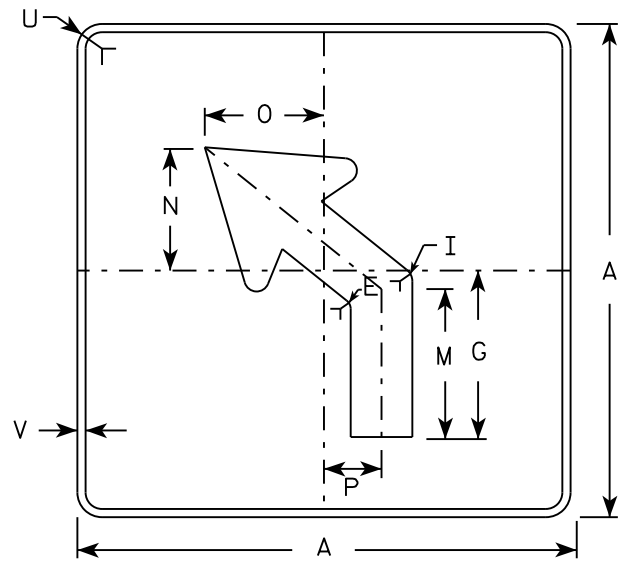
M5-1L
MM5-1L
M05-1L
MP5-1L



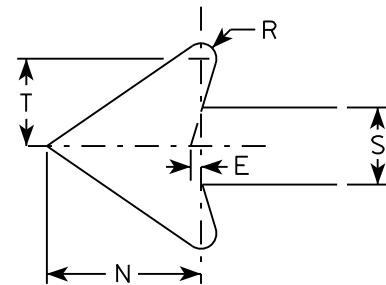
M5-2L
MM5-2L
M05-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

- Signs are Type II - Type H reflective except as shown
- Color:
Background - See note 4
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- | | |
|-----------------|---|
| M5-1 and M5-2 | Background - White |
| | Message - Black |
| MB5-1 and MB5-2 | Background - Blue |
| | Message - White |
| MK5-1 and MK5-2 | Background - Green |
| | Message - White |
| MM5-1 and MM5-2 | Background - White |
| | Message - Green |
| MN5-1 and MN5-2 | Background - Brown |
| | Message - White |
| M05-1 and M05-2 | Background - Orange - Type F Reflective |
| | Message - Black |
| MP5-1 and MP5-2 | Background - White - Type H Reflective |
| | Message - Blue |
| MR5-1 and MR5-2 | Background - Brown |
| | Message - Yellow |
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	v	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

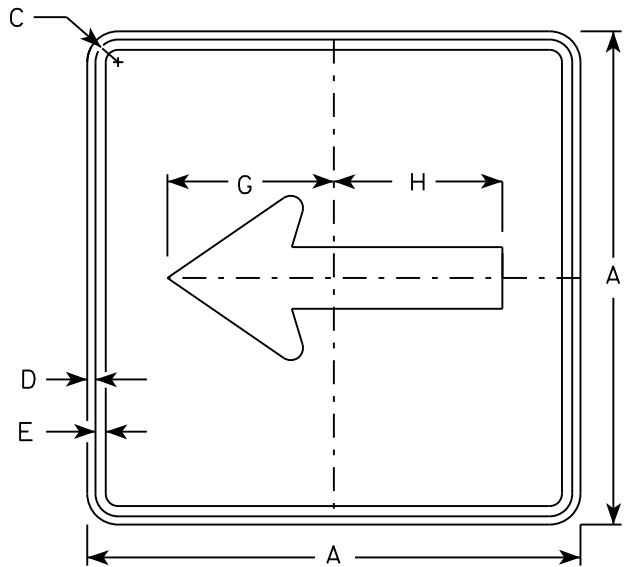
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
M5-1 & M5-2

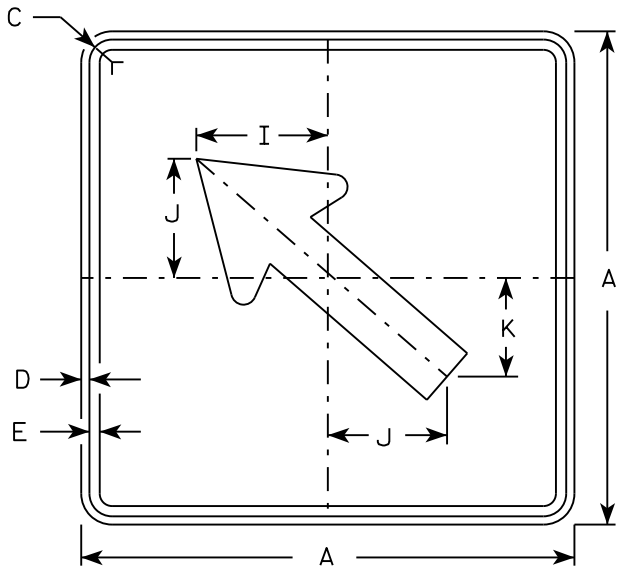
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

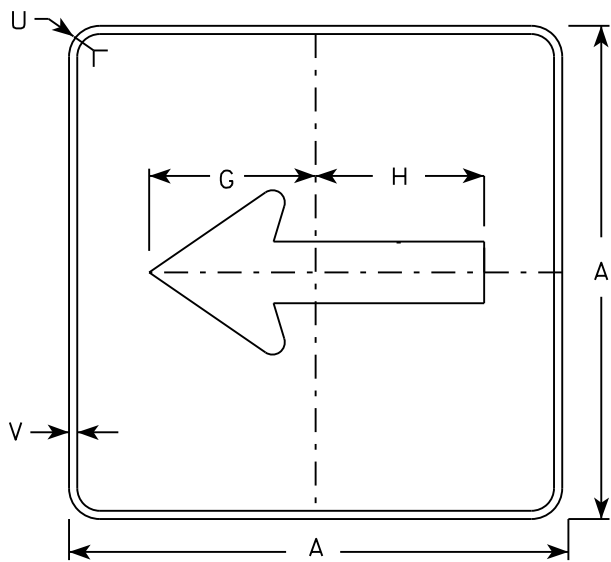
DATE 10/15/15 PLATE NO. M5-1.13



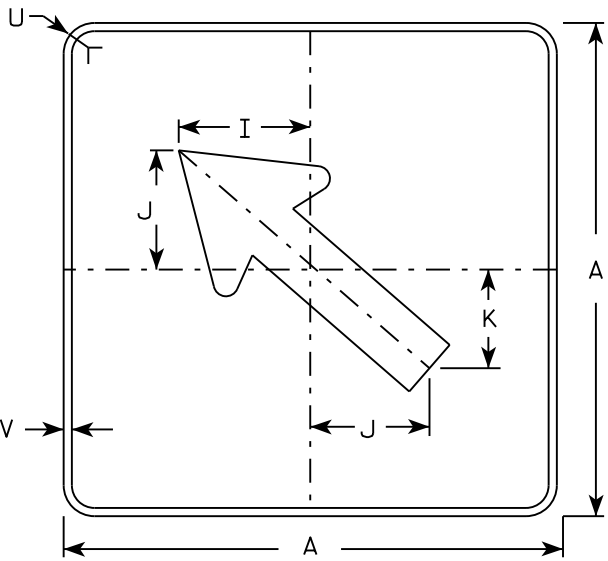
M6 - 1
MM6 - 1
M06 - 1
MP6 - 1



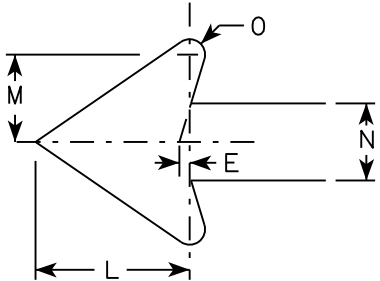
M6 - 2
MM6 - 2
M06 - 2
MP6 - 2



MB6 - 1
MK6 - 1
MN6 - 1
MR6 - 1



MB6 - 2
MK6 - 2
MN6 - 2
MR6 - 2



NOTES

- 1. Signs are Type II - Type H except as Shown
- 2. Color:
Background - See note 4
Message - See note 4
- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-1 and M6-2 Background - White
Message - Black
MB6-1 and MB6-2 Background - Blue
Message - White
MK6-1 and MK6-2 Background - Green
Message - White
MM6-1 and MM6-2 Background - White
Message - Green
MN6-1 and MN6-2 Background - Brown
Message - White
M06-1 and M06-2 Background - Orange - Type F Reflective
Message - Black
MP6-1 and MP6-2 Background - White
Message - Blue
MR6-1 and MR6-2 Background - Brown
Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

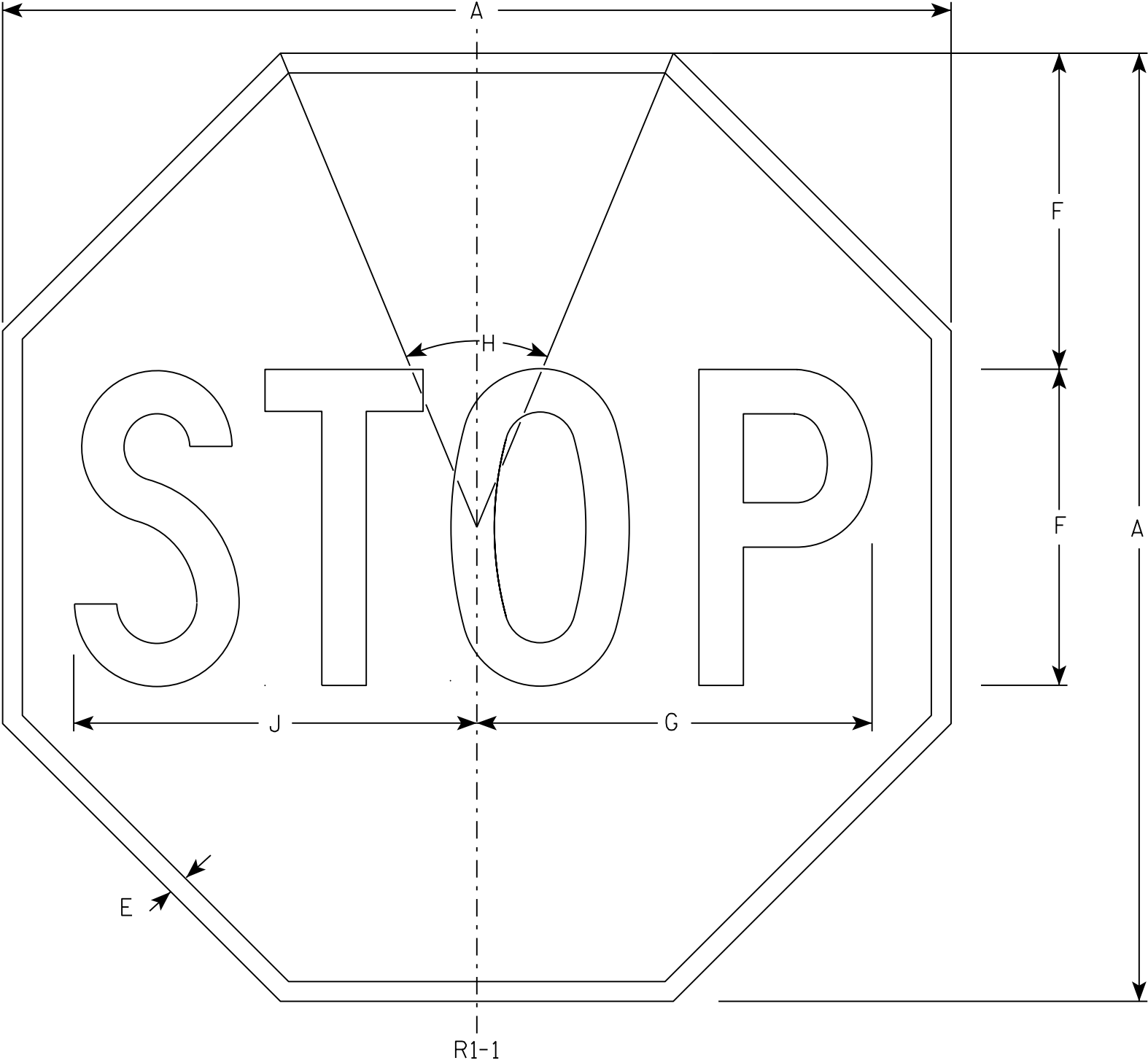
STANDARD SIGN
M6 - 1 & M6 - 2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-1.15

7



NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Red
Message - White
- 3. Message Series - C

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

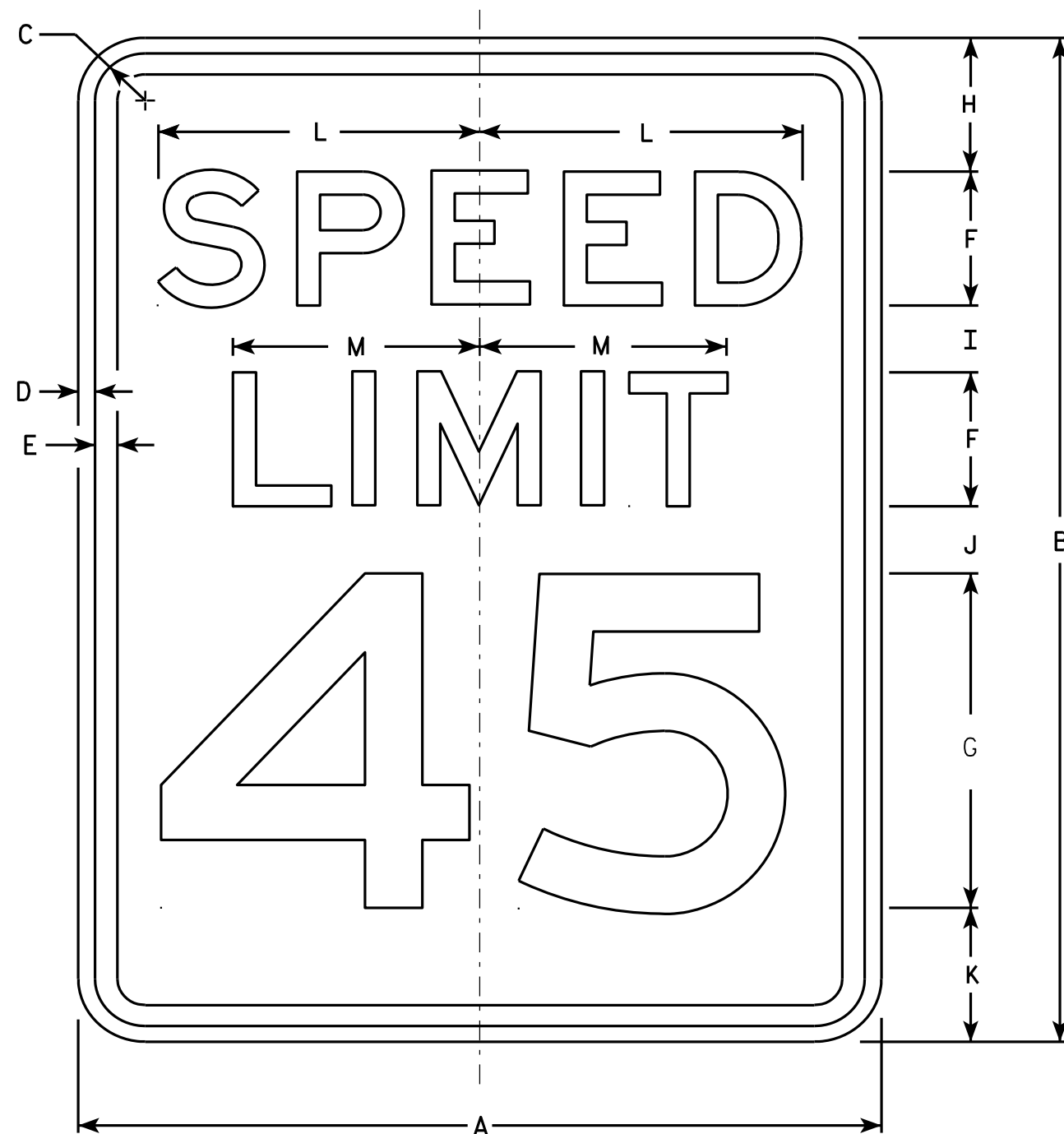
STANDARD SIGN

R1 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13



R2-1

NOTES

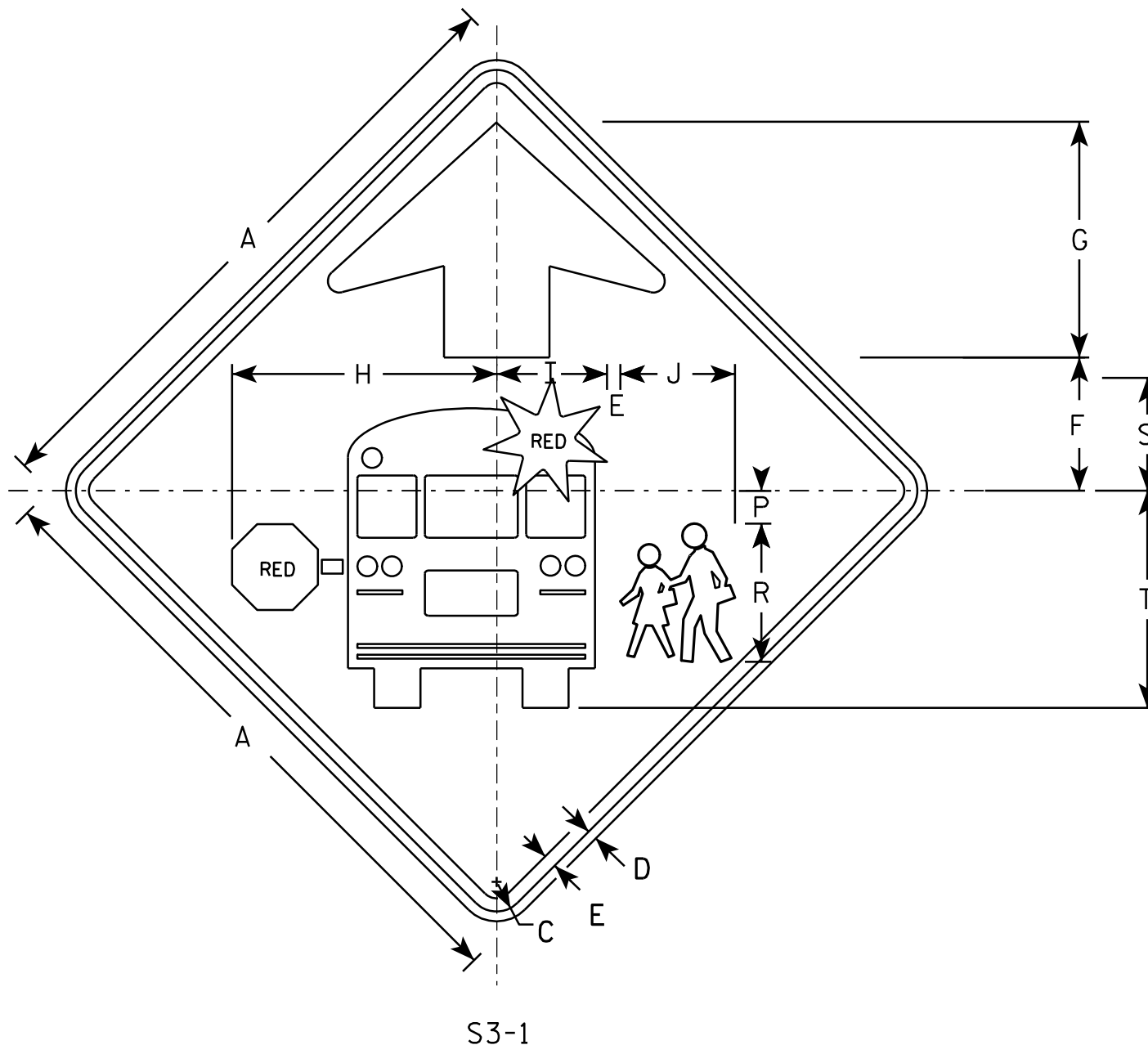
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
For State Traffic Engineer
DATE 5/26/10 PLATE NO. R2-1.13

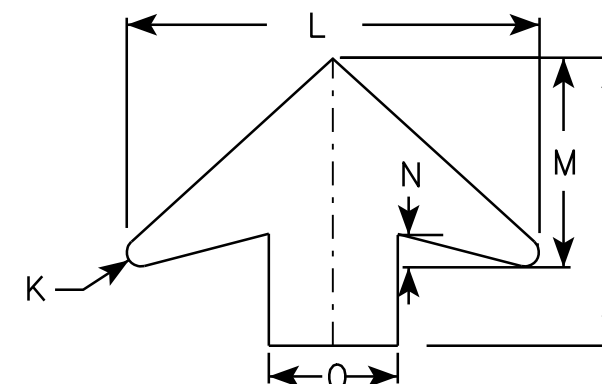
PROJECT NO: HWY: COUNTY: SHEET NO: E



S3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - YELLOW-GREEN
Message - BLACK except as noted
Circles except PEDS- RED BACKGROUND
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 ³ / ₈	1/2	5/8	6 1/4	11 1/4	12 1/2	5 1/4	5 1/2	1/2	16	8	1 1/4	5	1 1/2		6 5/8	5 3/8	10 3/8							6.25
2	36		1 5/8	5/8	3/4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 5/8	6	1 7/8		7 7/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN S3-1

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/8/10 PLATE NO. S3-1.6

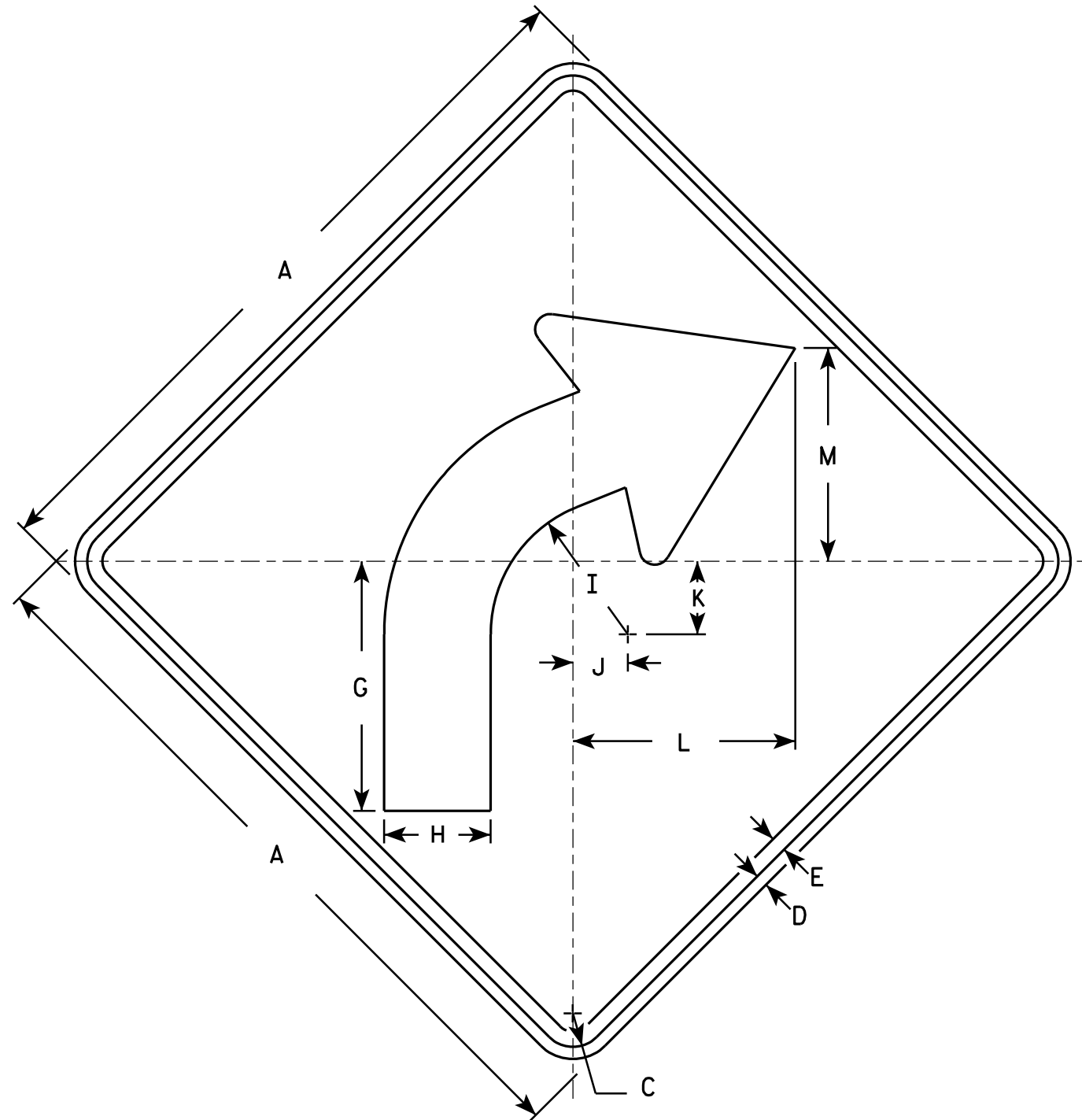
PROJECT NO:

SHEET NO:

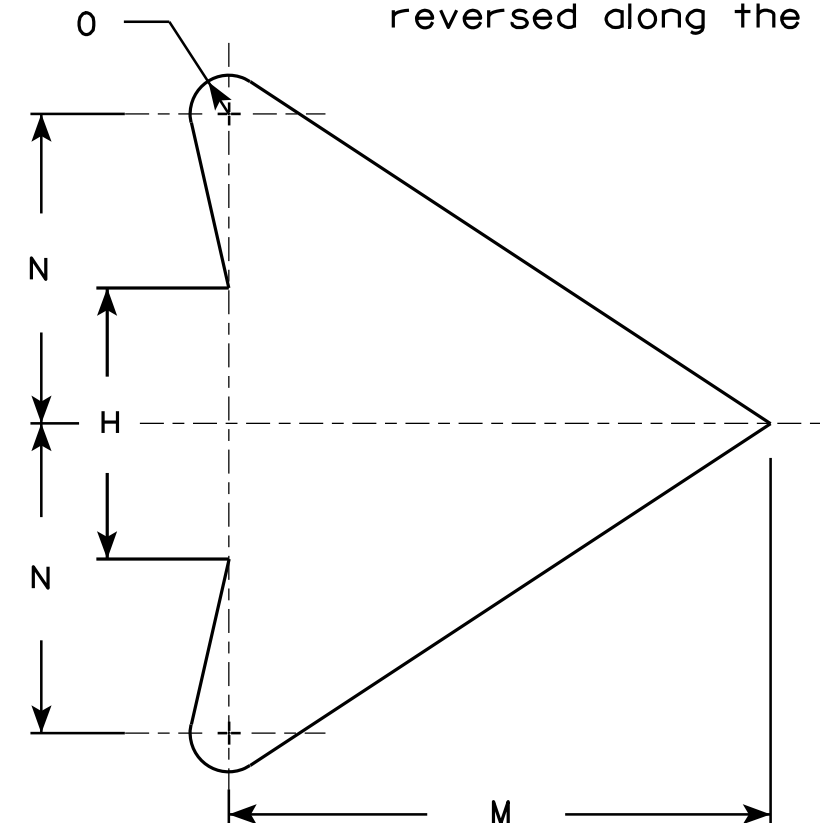
E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

STANDARD SIGN

W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

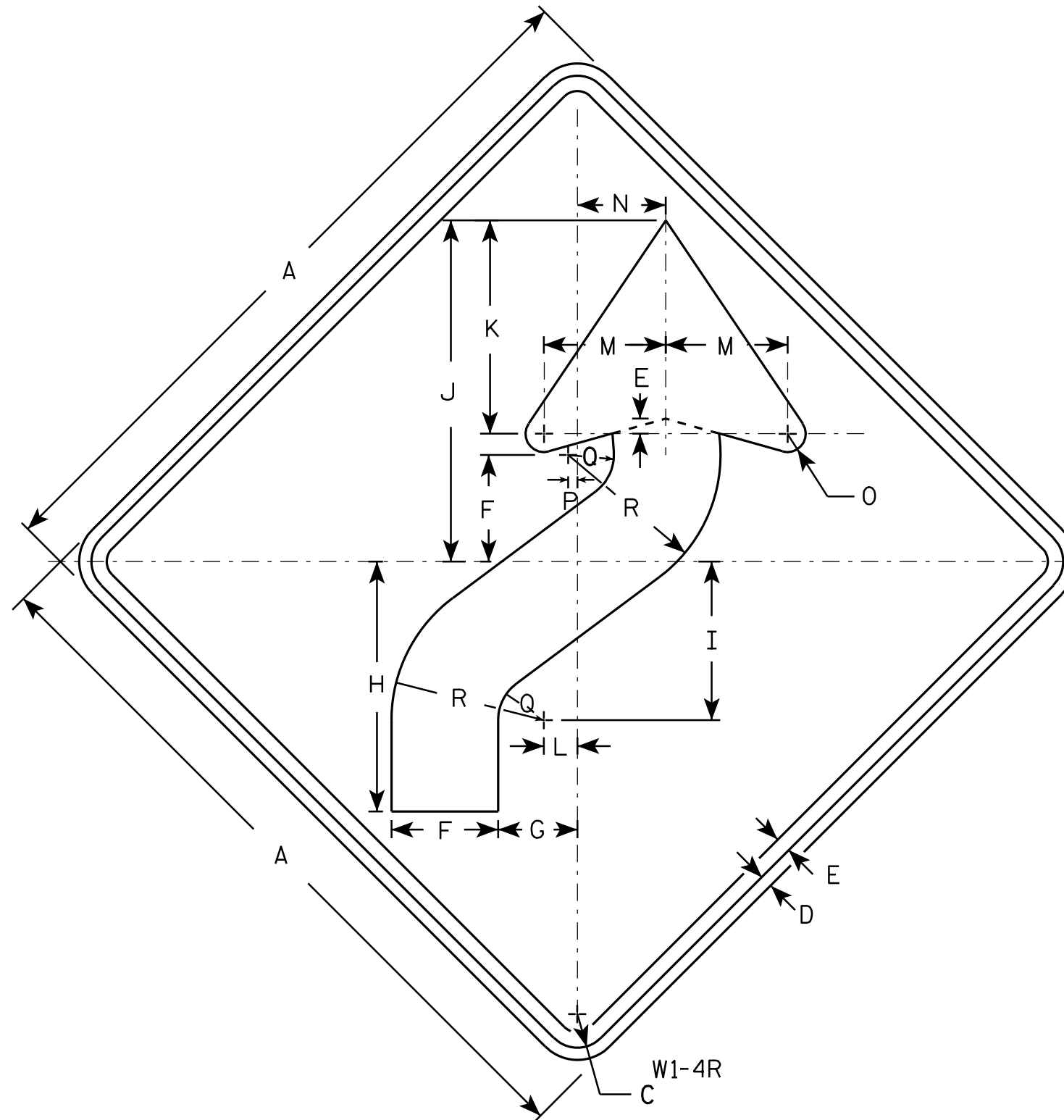
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



NOTES

- Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Yellow
Message - Black
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN

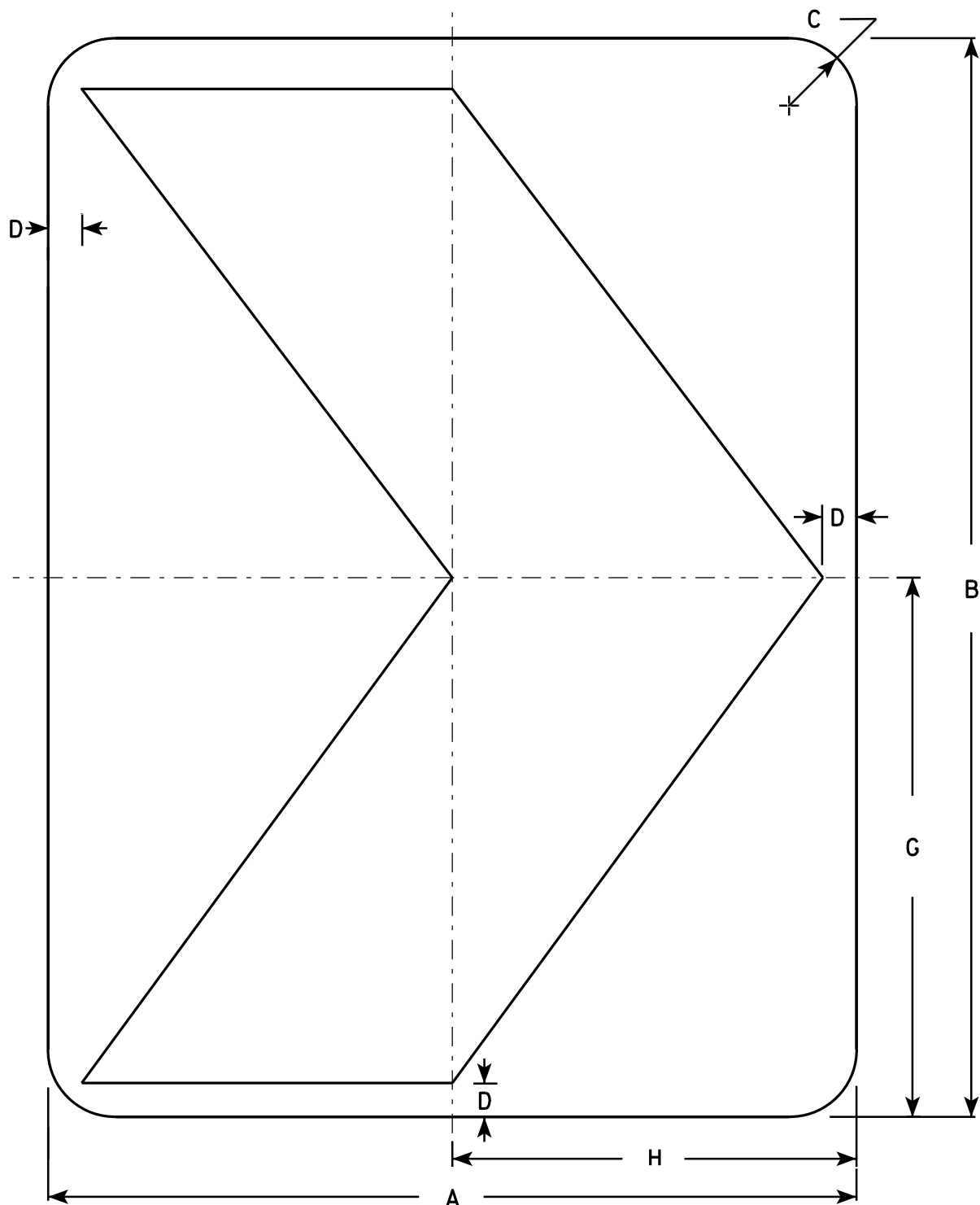
W1 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: HWY: COUNTY: SHEET NO: E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

W1-8

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/2	1/2			9	6																			1.5
2S	18	24	1 1/2	3/4			12	9																			3.0
2M	18	24	1 1/2	3/4			12	9																			3.0
3	24	30	1 1/2	1			15	12																			5.0
4	30	36	1 7/8	1 1/4			18	15																			7.5
5	36	48	2 1/4	1 1/2			24	18																			12.0

STANDARD SIGN

W1-8

WISCONSIN DEPT OF TRANSPORTATION

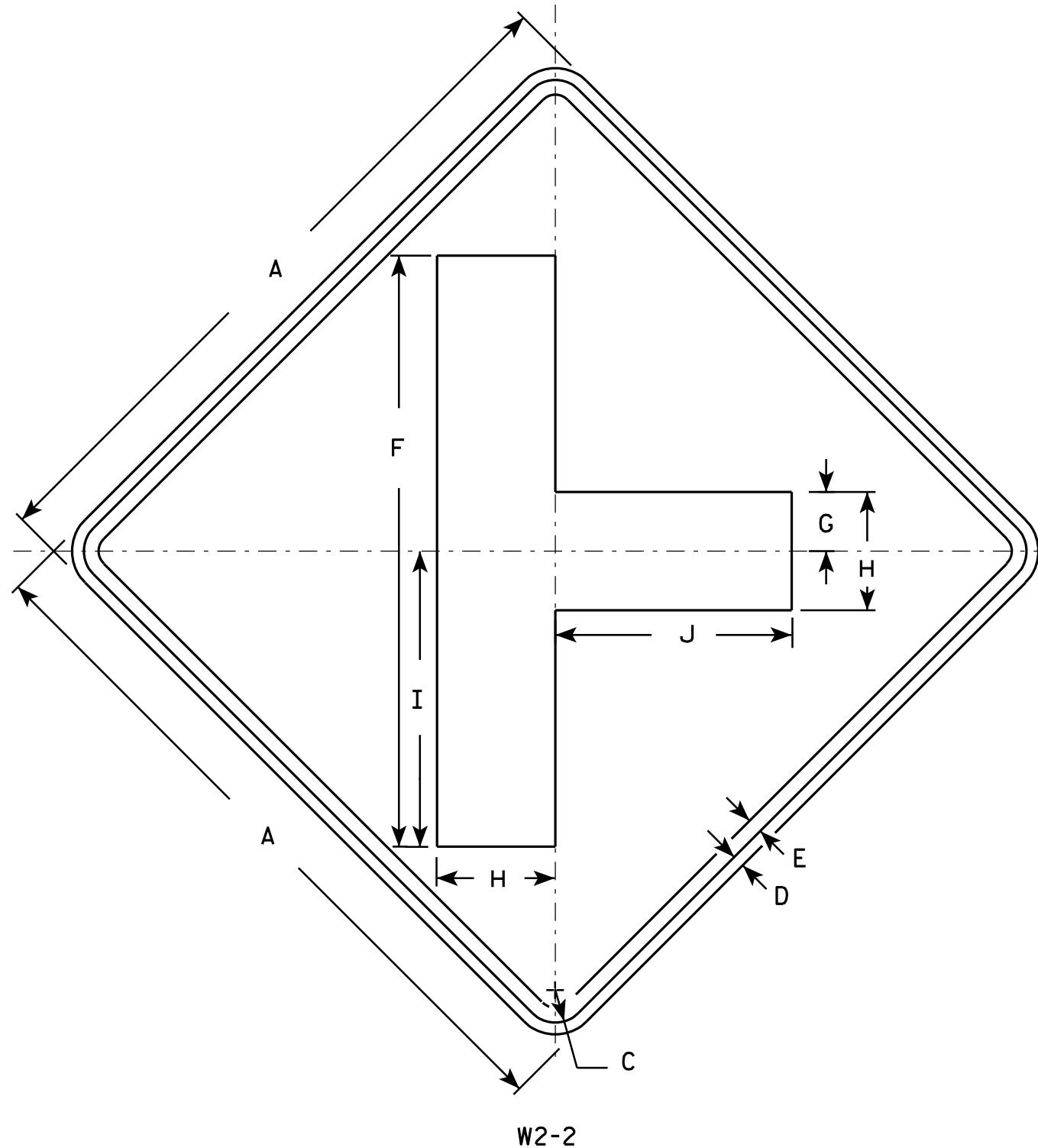
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-8.6

PROJECT NO:

SHEET NO:

E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	20	2	4	10	8																	4.0
2S	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
2M	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
3	36		1 5/8	5/8	3/4	30	3	6	15	12																	9.0
4	48		2 1/4	3/4	1	40	4	8	20	16																	16.0
5																											

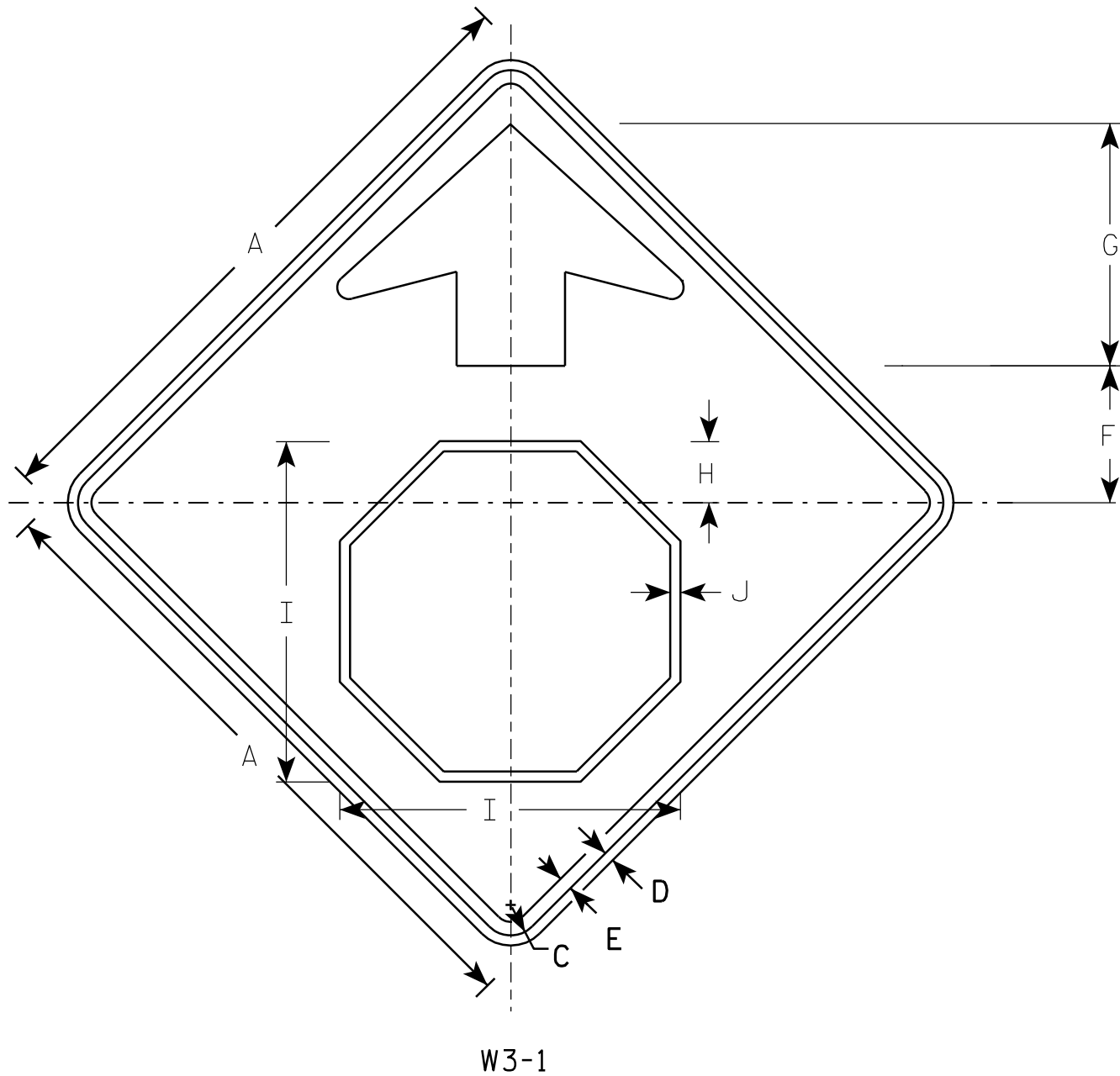
STANDARD SIGN W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

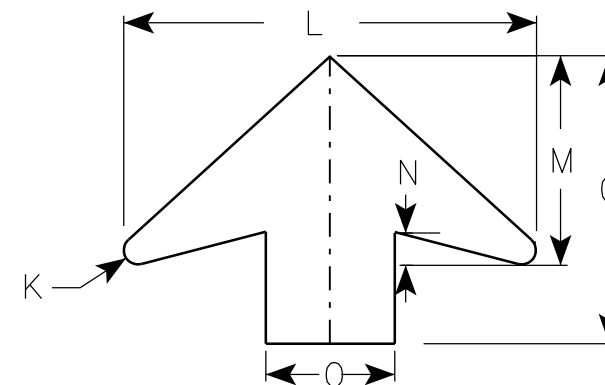
DATE 5/29/12 PLATE NO. W2-2.6

PROJECT NO: HWY: COUNTY: SHEET NO: E



NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - YELLOW
Arrow & Border - BLACK
Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 ³ / ₈	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

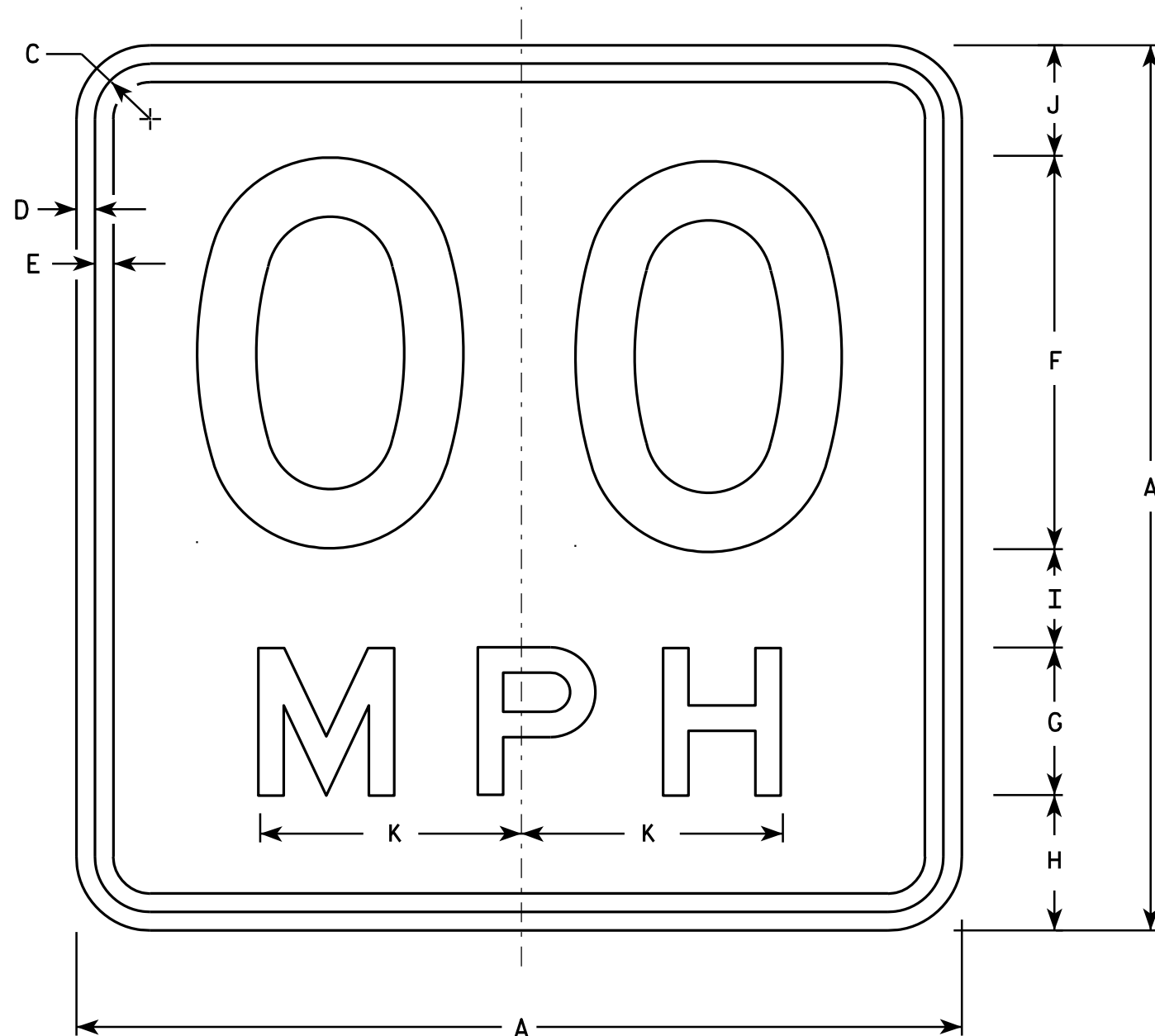
PROJECT NO:

STANDARD SIGN W3-1

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W3-1.12

SHEET NO:

E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
Line 2 is Series E

W13-1

- * For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area Sq. Ft.
1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN

W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

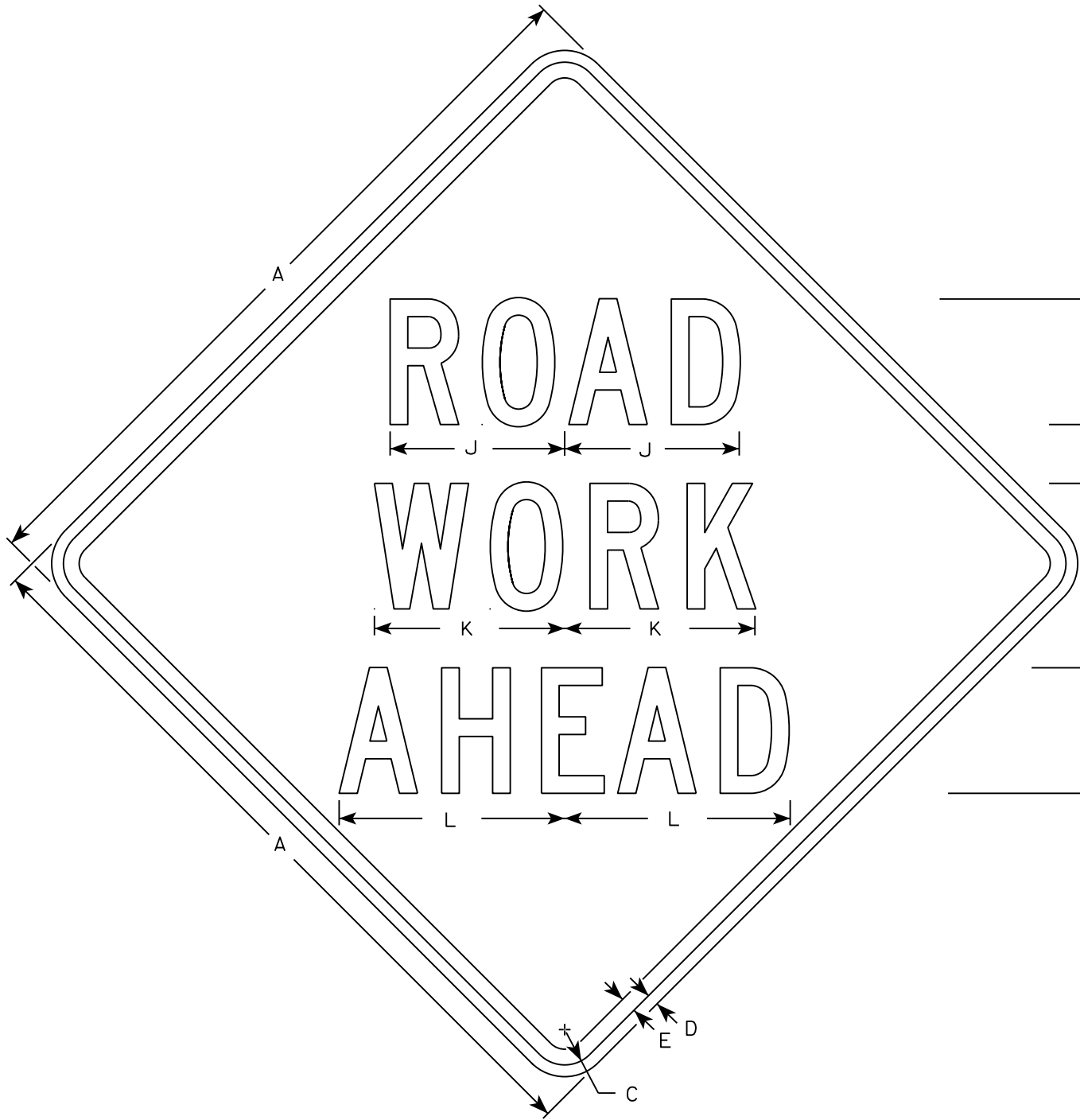
PROJECT NO:

HWY:

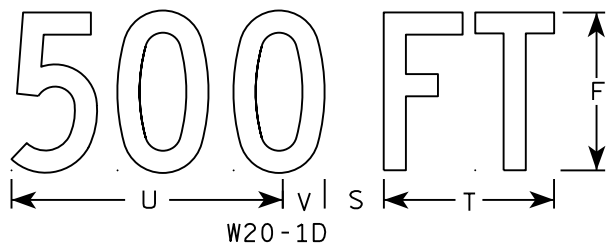
COUNTY:

SHEET NO:

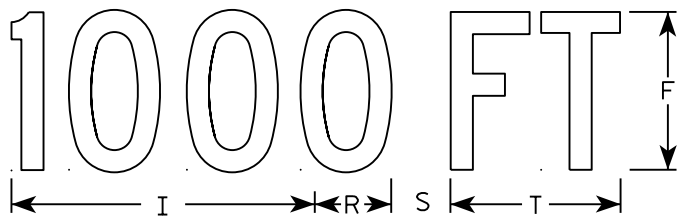
E



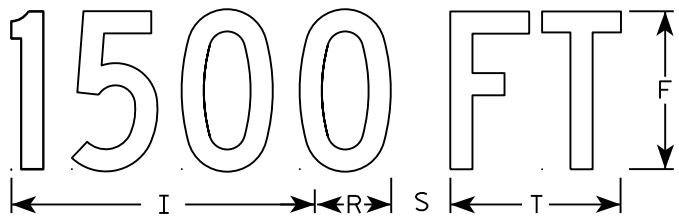
W20-1A



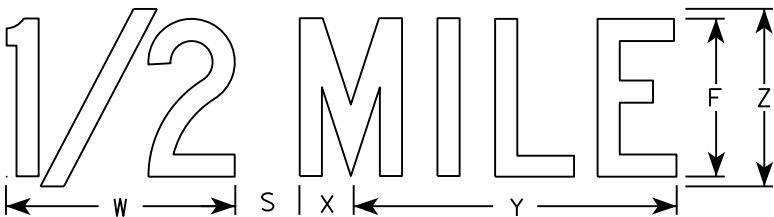
W20-1D



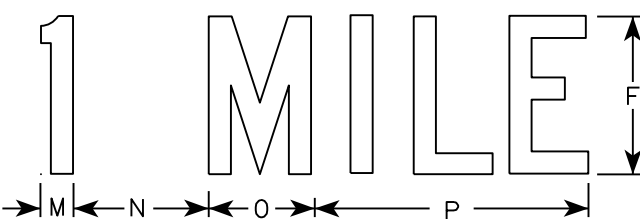
W20-1C



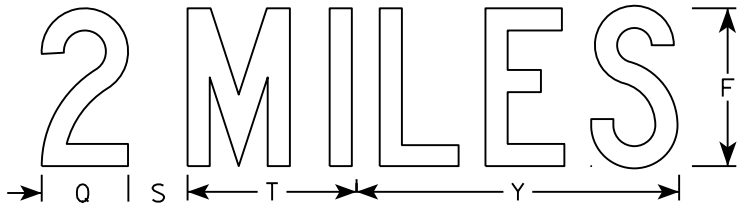
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Orange
Message - Black
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

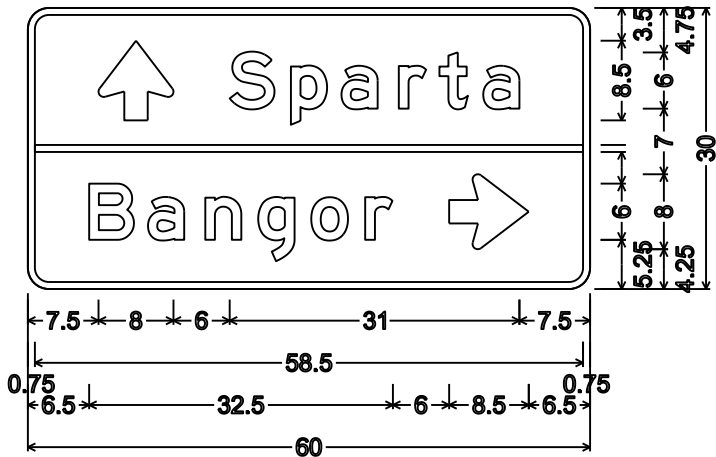
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

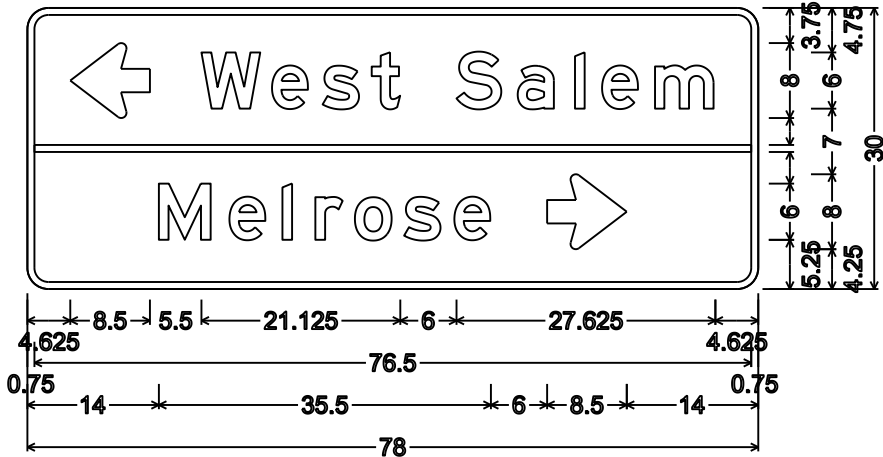
DATE 5/07/15 PLATE NO. W20-1.10

NOTES

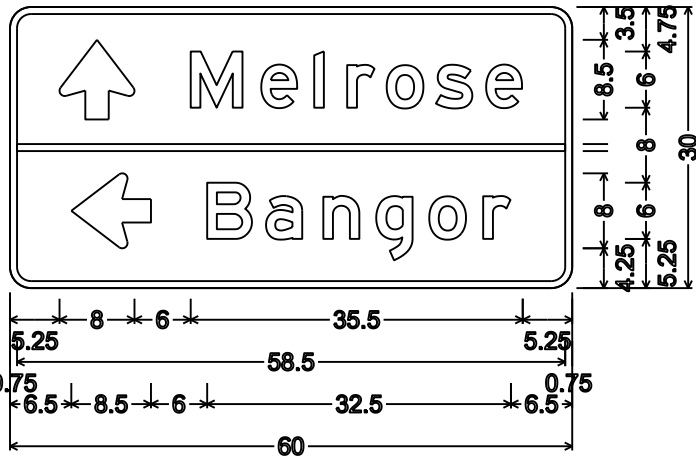
- 1. All Signs Type II - Type H Reflective
- 2. Color:
Background - Green
Message - White
- 3. Message Series - E except as noted



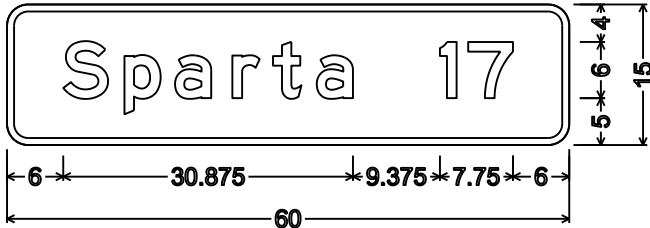
D1-2;
2.250" Radius, 0.750" Border



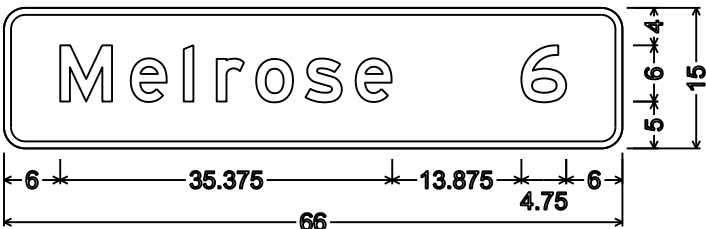
D1-2; 2.250" Radius, 0.750" Border



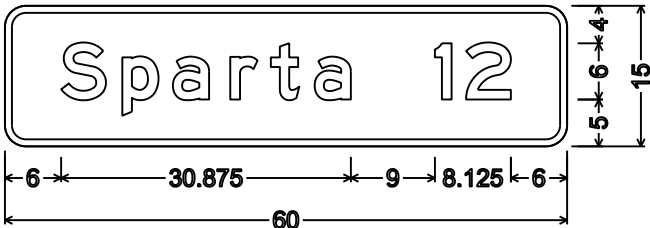
D1-2;
2.250" Radius, 0.750" Border



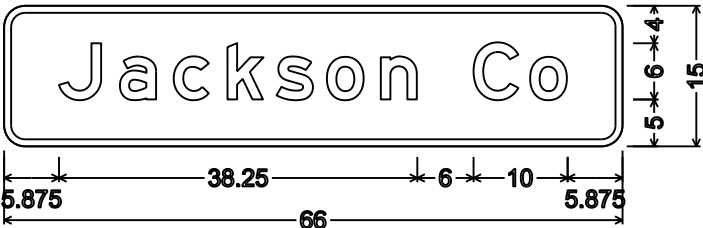
D2-1;
2.250" Radius, 0.750" Border



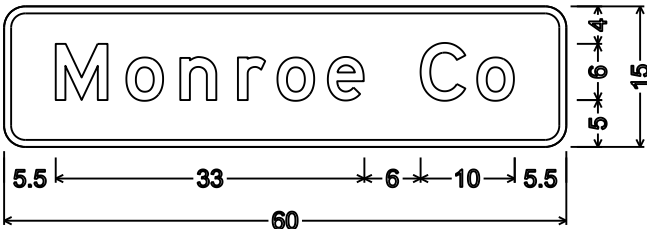
D2-1; 2.250" Radius, 0.750" Border



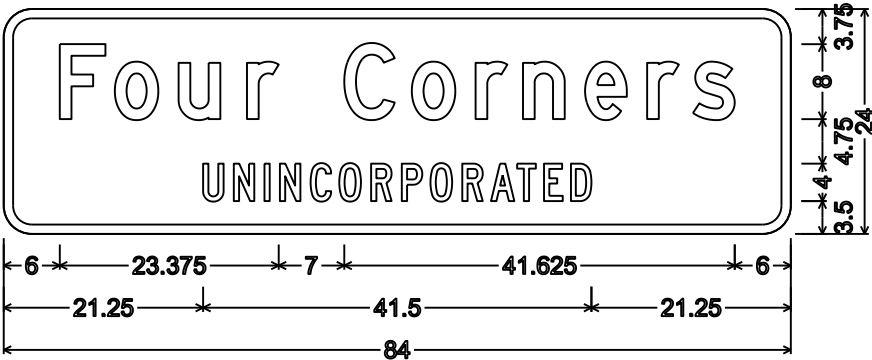
D2-1;
2.250" Radius, 0.750" Border



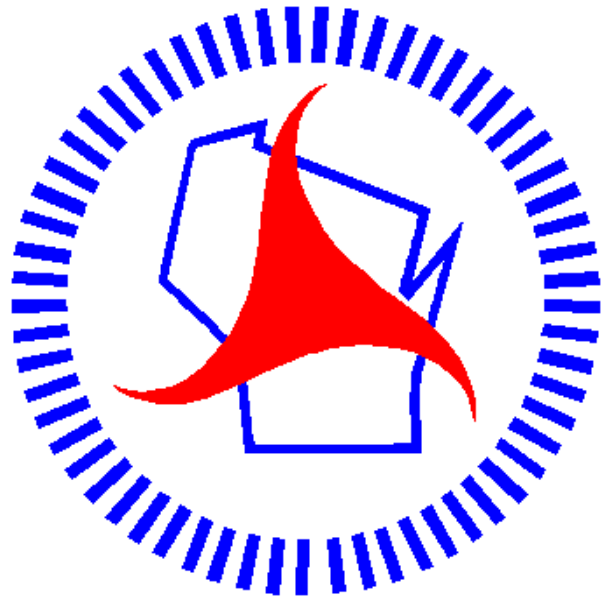
I2-2; 2.250" Radius, 0.750" Border



I2-2;
2.250" Radius, 0.750" Border



I2-3; 3.000" Radius, 1.000" Border,
"Four" D; "Corners" D; "UNINCORPORATED" C



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