

GRE
PROJECT ID:
WITH: NA

1440-38-60

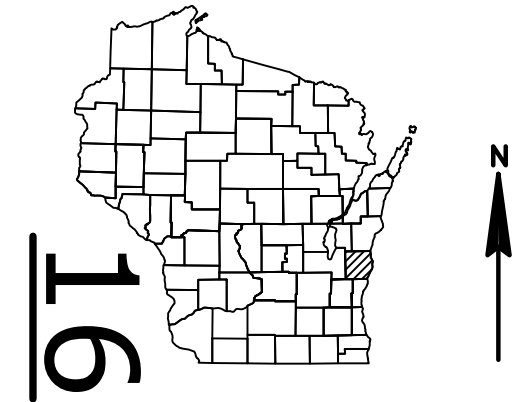
COUNTY:
SHEBOYGAN

MAY 2018

ORDER OF SHEETS

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

TOTAL SHEETS = 114



DESIGN DESIGNATION

A.A.D.T.	2019	=	9,700
A.A.D.T.		=	13,000
D.H.V.	2039	=	764
D.D.		=	60/40
T.		=	17.5%
DESIGN SPEED		=	55 MPH
ESALS		=	4,600,000

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

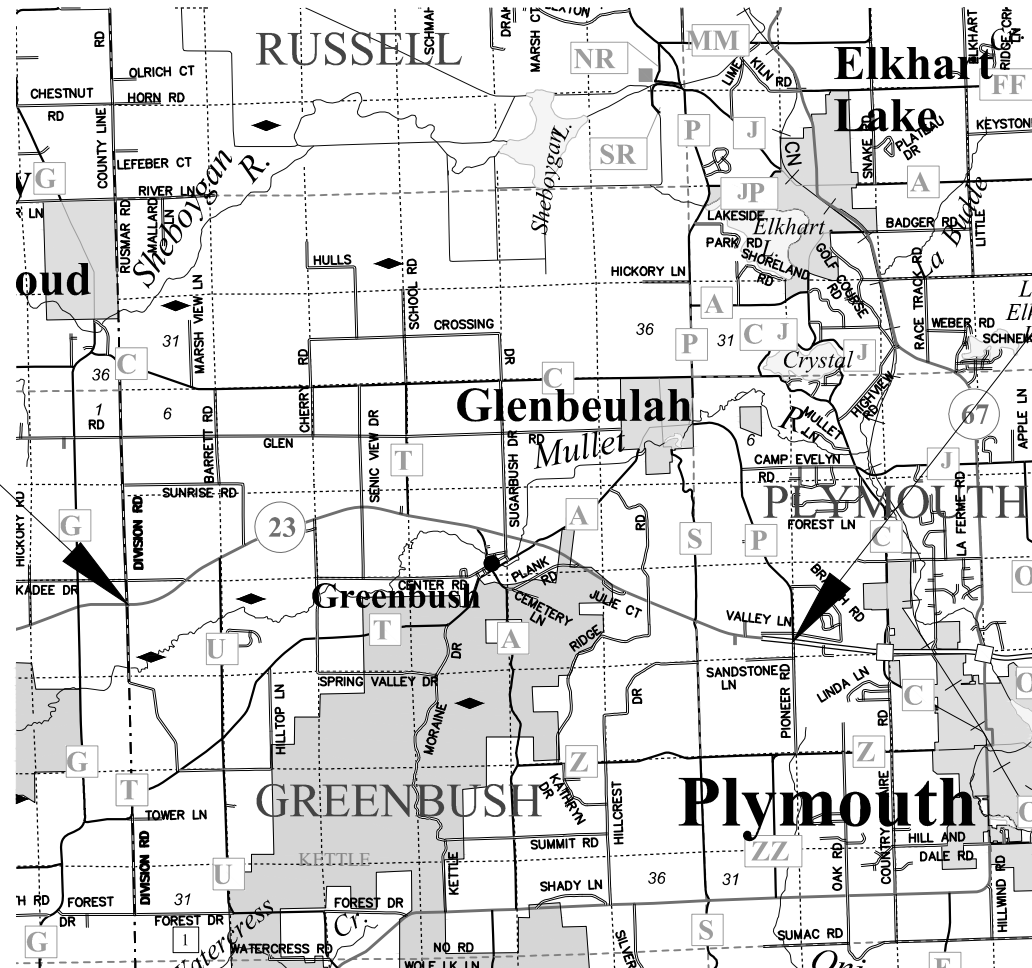
FOND DU LAC-PLYMOUTH

DIVISION ROAD-CTH P

STH 23

SHEBOYGAN COUNTY

STATE PROJECT NUMBER
1440-38-60



LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 7.5 MI

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), NAD 83 (1991) SHEBOYGAN COUNTY.

STATE PROJECT

1440-38-60

FEDERAL PROJECT

PROJECT

WISC 2018244

CONTRACT

1

END PROJECT 1440-38-60
STA 1137+40

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	NER/ROBERT E LEE & ASSOC INC
Designer	A HOLZEM
Project Manager	P BRAUER
Regional Examiner	
Regional Supervisor	R WAGNER

APPROVED FOR THE DEPARTMENT

DATE: _____ 
(Signature)

E

GENERAL NOTES

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA WHICH 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 WHICH HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES AREA MEMBERS OF DIGGERS HOTLINE.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

UTILITIES

ANR PIPELINE CO - GAS/PETROLEUM
W3925 PIPELINE LN
EDEN, WI 53019
ATTN: LAWRENCE HUBER
PHONE: 920-477-2235
E-MAIL: LAWRENCE_HUBER@TRANSCANADA.COM

ALLIANT ENERGY - ELECTRICITY
4902 N BILTMORE LANE
MADISON, WI 53718
ATTN: MICHAEL BROLIN
PHONE: 608-458-4871
E-MAIL: MICHAELBROLIN@ALLIANTENERGY.COM

FRONTIER COMMUNICATIONS OF WI LLC - COMMUNICATION LINE
107 PLEASANTVIEW DR
PLYMOUTH, WI 53073
ATTN: RYAN OSNESS
PHONE: W 920-893-7455
C 920-246-3530
EMAIL: RYAN.D.OSNESS@FTR.COM

NORTHERN MORAIN E UTILITY COMMISSION - SEWER
N7025 COUNTY TRUNK P
GLENBEULAH, WI 53023
ATTN: SCOTT RANDALL
PHONE: 920-526-3808
EMAIL: NORTHERNMORAIN E UTILITY@GMAIL.COM

PLYMOUTH UTILITIES CO - ELECTRICITY
900 CTH PP
P.O. BOX 277
PLYMOUTH, WI 53073-0277
ATTN: JAMES PETERSON
PHONE: 920-893-1471
E-MAIL: JPETERSON@PLYMOUTHUTILITIES.COM

TIME WARNER CABLE - COMMUNICATION LINE
1320 N DR MARTIN LUTHER KING JR DR
MILWAUKEE, WI 53212-4002
ATTN: STEVEN CRAMER
PHONE: 920-277-4045
E-MAIL: WIS.ENGINEERING@TWCABLE.COM

WISCONSIN PUBLIC SERVICE CORPORATION - GAS/PETROLEUM
700 N ADAMS ST
P.O. BOX 19001
GREEN BAY, WI 54307-9001
ATTN: LORI BUTRY
PHONE: 920-433-1703
E-MAIL: LABUTRY@INTEGRYSGROUP.COM

WE ENERGIES - ELECTRICITY
333 WEST EVERETT ST, ROOM A299
MILWAUKEE, WI 53203
ATTN: DAN SANDE
PHONE: 414-221-5617
E-MAIL: DAN.SANDE@WE-ENERGIES.COM

WEST SHORE PIPE LINE COMPANY - GAS/PETROLEUM
2119 NORTH QUINCY STREET
GREEN BAY, WI 54302
ATTN: CASEY SCHWANDT
PHONE: 920-432-3223
E-MAIL: CSCHWANDT@BUCKEYE.COM

WDNR LIAISON

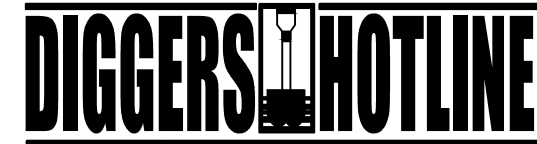
JAY SCHIEFELBEIN
DNR NORTHEAST REGIONAL HQ
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
OFFICE:(920) 360-3784
E-MAIL:jeremiah.schiefelbein@wisconsin.gov

SHEBOYGAN COUNTY COMMISSIONER

GREG SCHNELL
SHEBOYGAN COUNTY HIGHWAY COMMISSIONER
1211 N 23RD
SHEBOYGAN, WI 53081
TEL: (920) 459-3822
FAX: (920) 459-3831
E-MAIL: schnegfs@co.sheboygan.wi.us

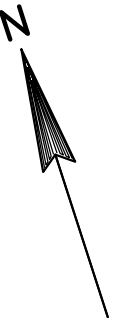
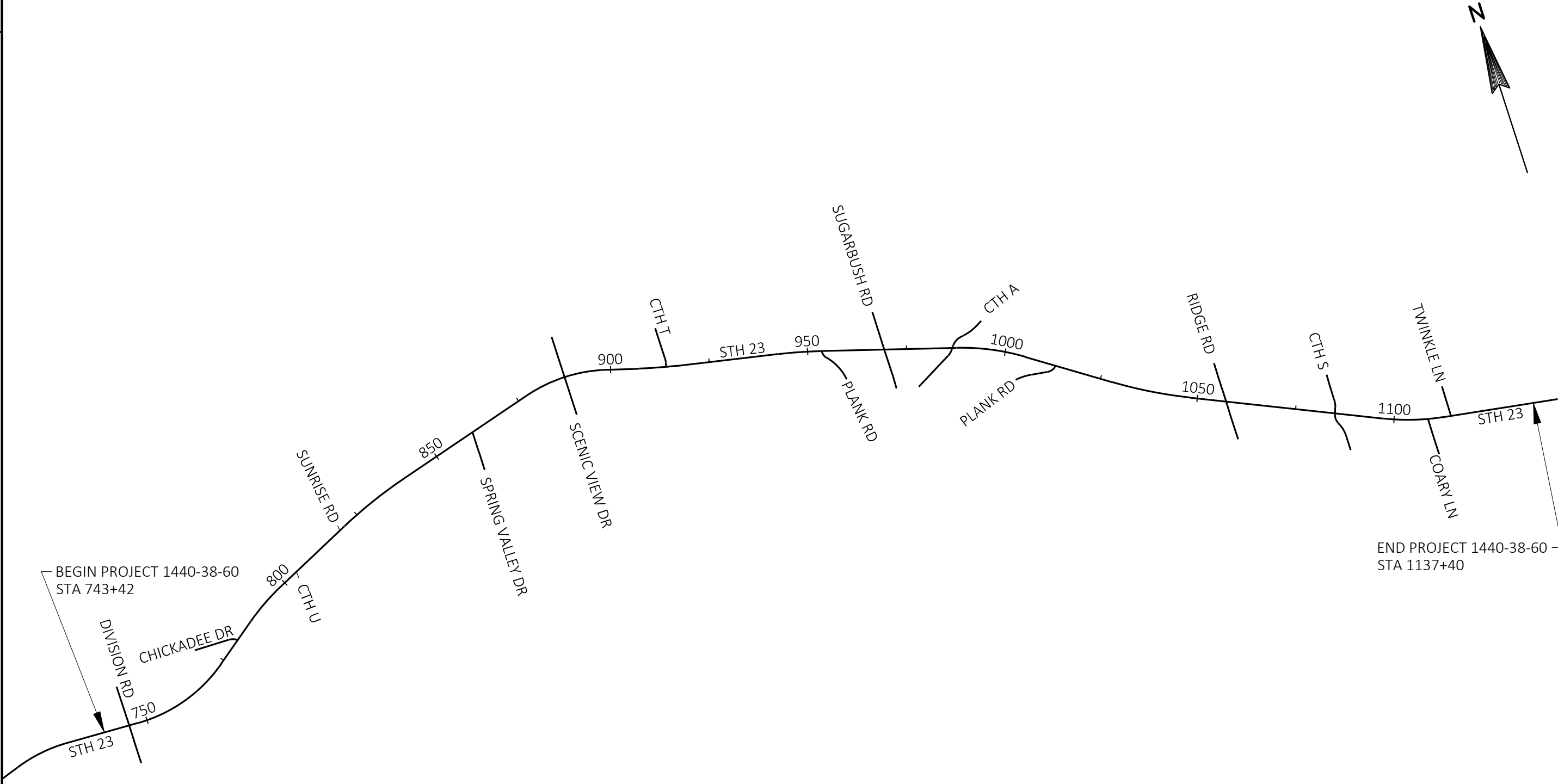
NE REGION SURVEY COORDINATOR

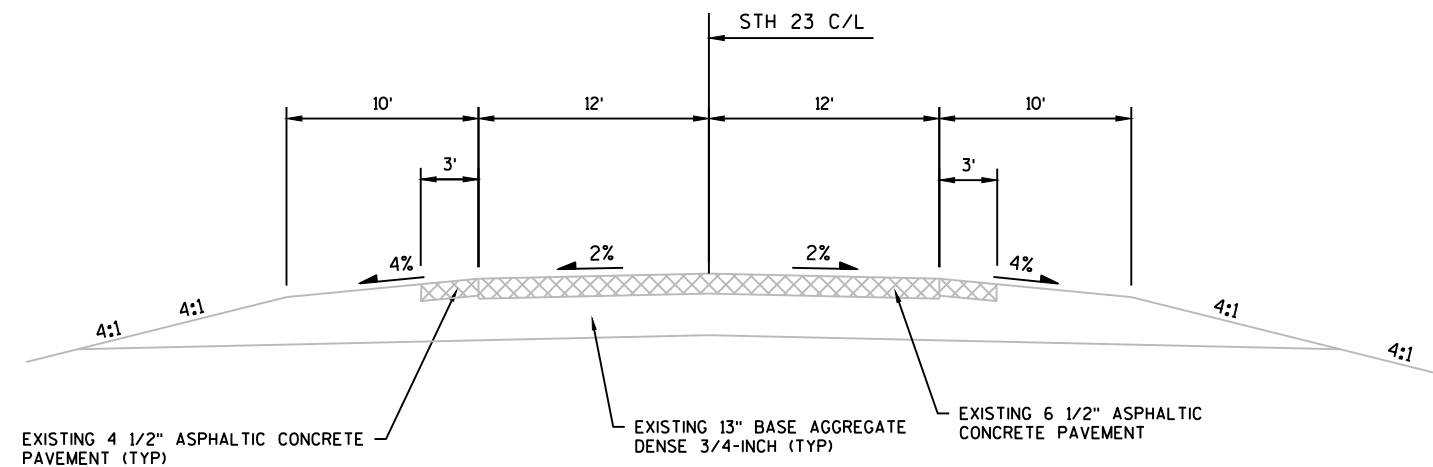
CORMAC MCINNIS, RLS
944 VANDERPERREN WAY
GREEN BAY, WI 54304
TEL: (920) 360-3784
E-MAIL: cormac.mcinnis@dot.wi.gov



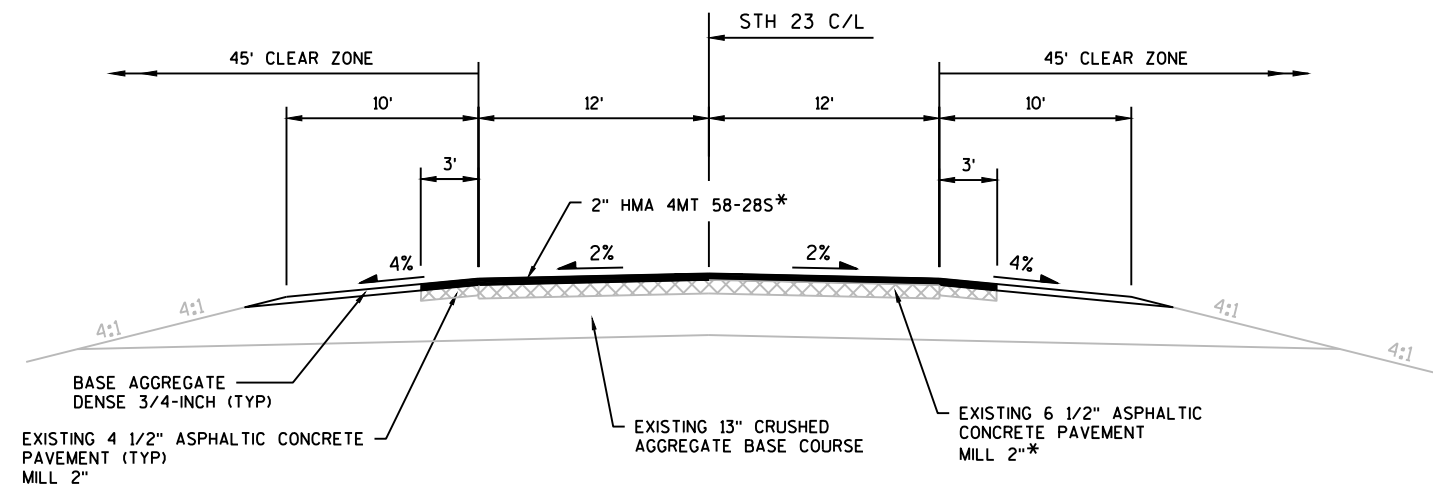
Dial 811 or (800)242-8511

www.DiggersHotline.com





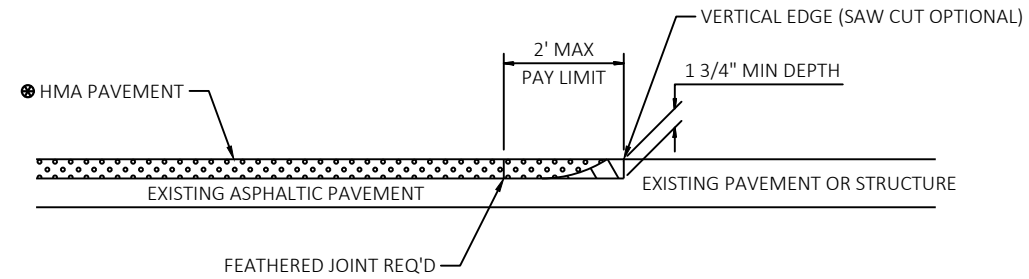
TYPICAL EXISTING CROSS SECTION FOR STH 23
STA 743+42 TO STA 1120+27 EB
STA 743+42 TO STA 1137+40 WB



TYPICAL FINISHED CROSS SECTION FOR STH 23
STA 743+42 TO STA 1120+27 EB
STA 743+42 TO STA 1137+40 WB

*SEE PLAN VIEW FOR LOCATIONS OF ADDITIONAL DEPTH FOR MILLING AND PAVING

NOTE:
ADDITIONAL DEPTH FOR MILLING AND PAVING WILL BE COVERED UNDER THE PAY ITEMS, 204.0120 AND 460.6224, RESPECTFULLY.



SEE TYPICAL CROSS SECTION FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS

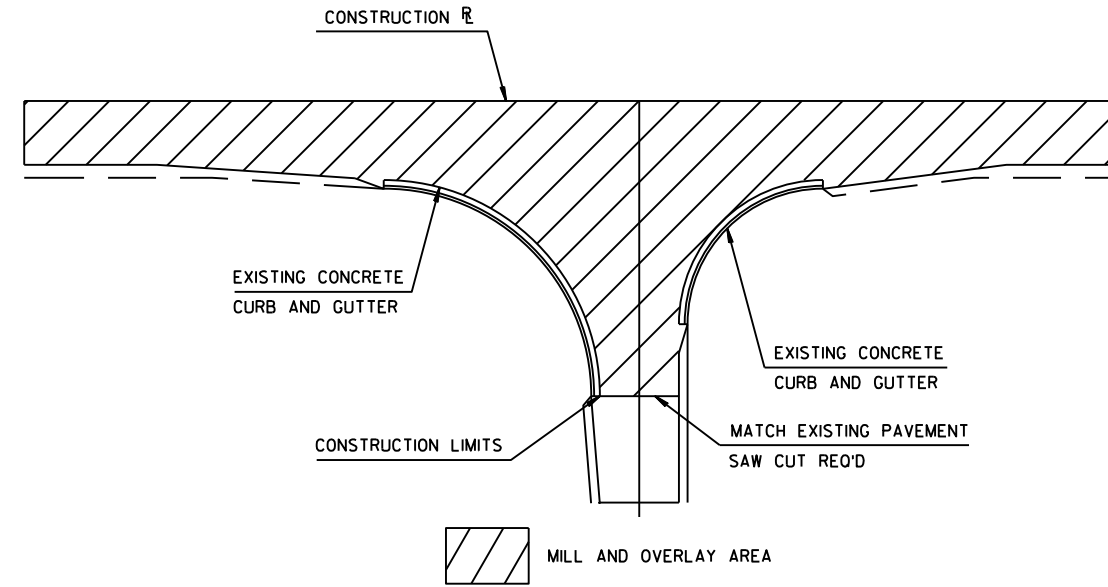


REMOVING ASPHALTIC SURFACE, MILLING

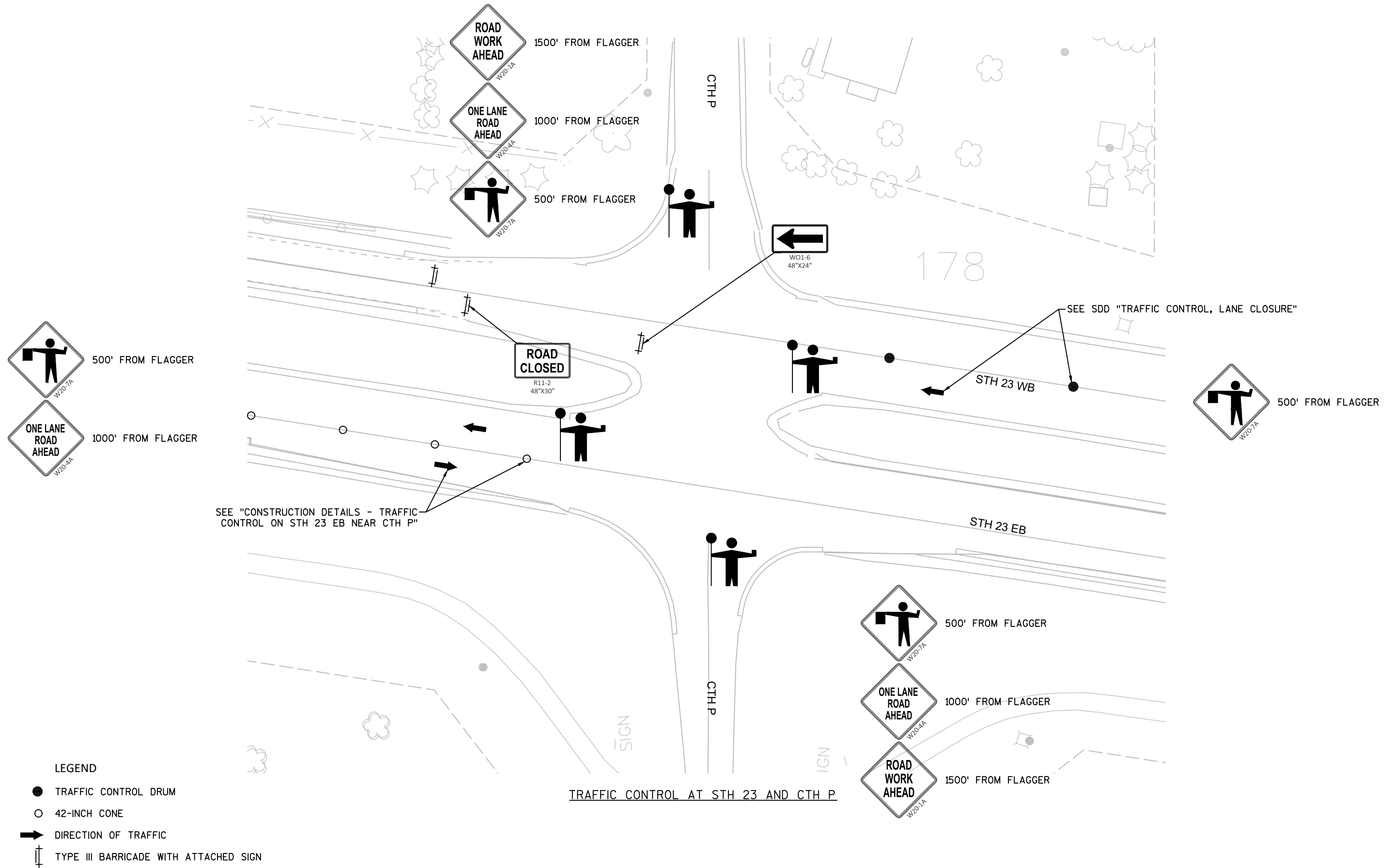


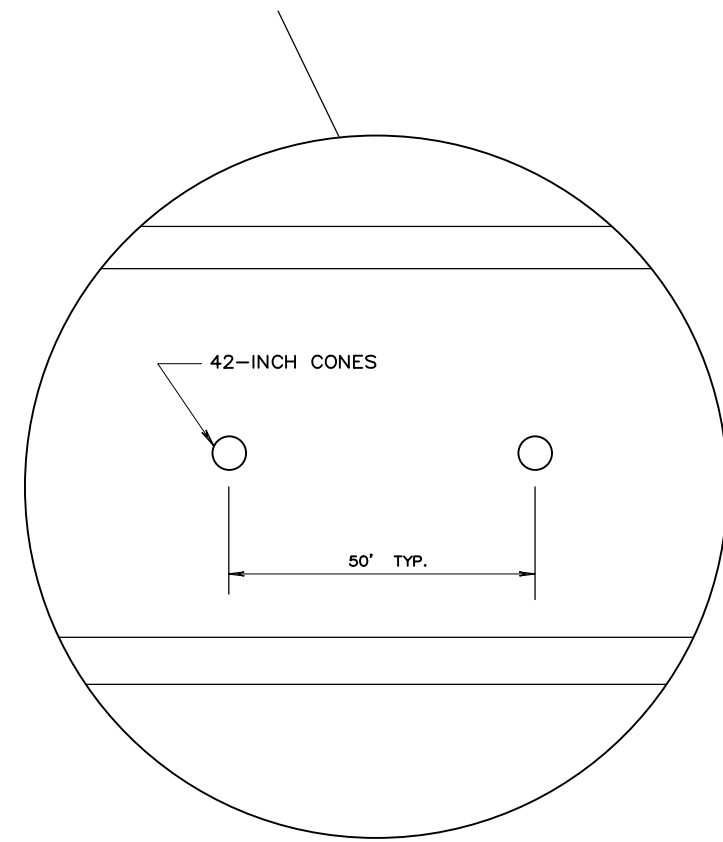
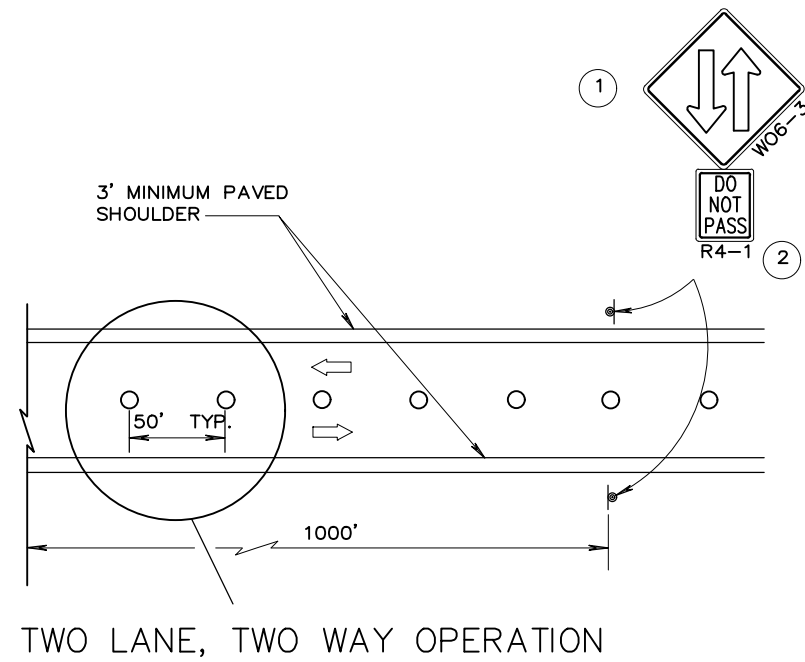
REMOVE ASPHALTIC SURFACE WEDGE AT BUTT JOINT TO CREATE VERTICAL EDGE

BUTT JOINT DETAIL FOR ASPHALTIC PAVEMENTS (NO PROFILE CHANGE)






SIDE ROAD CONSTRUCTION LIMITS





LEGEND

-  SIGN ON PERMANENT SUPPORT
-  42-INCH CONE
-  DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERS NOTED.

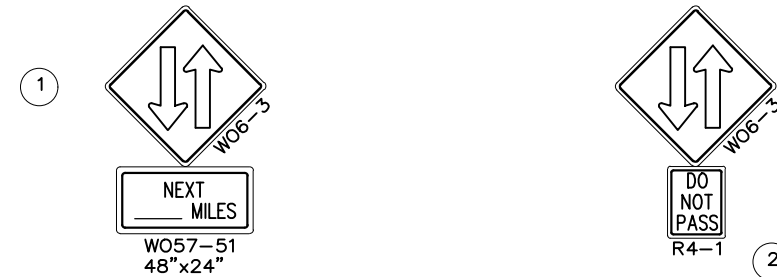
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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

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

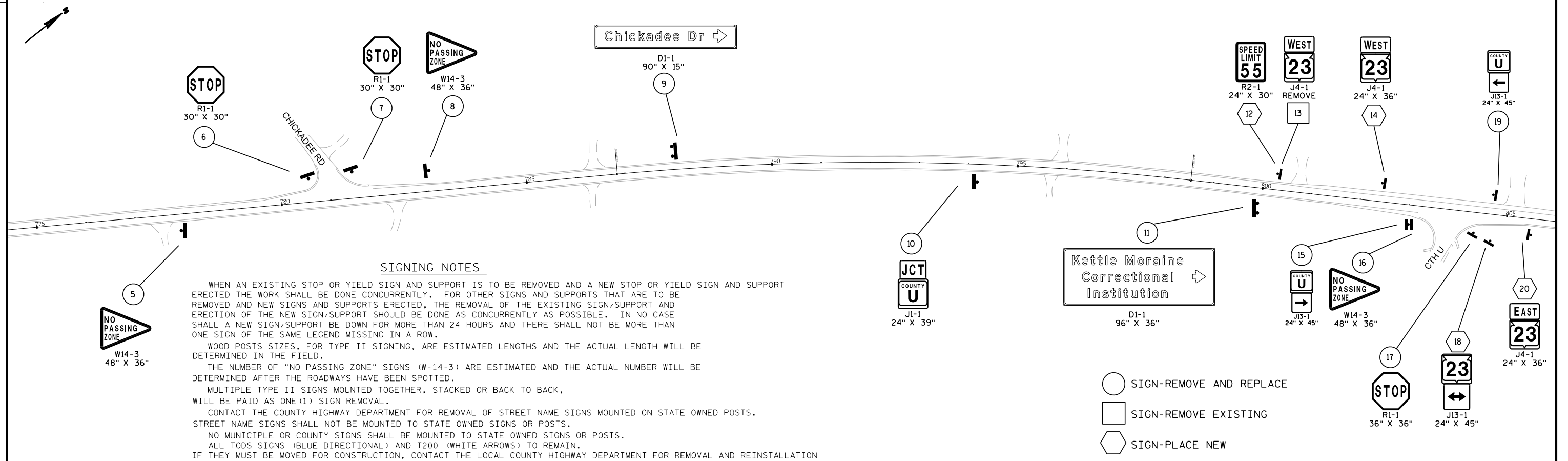
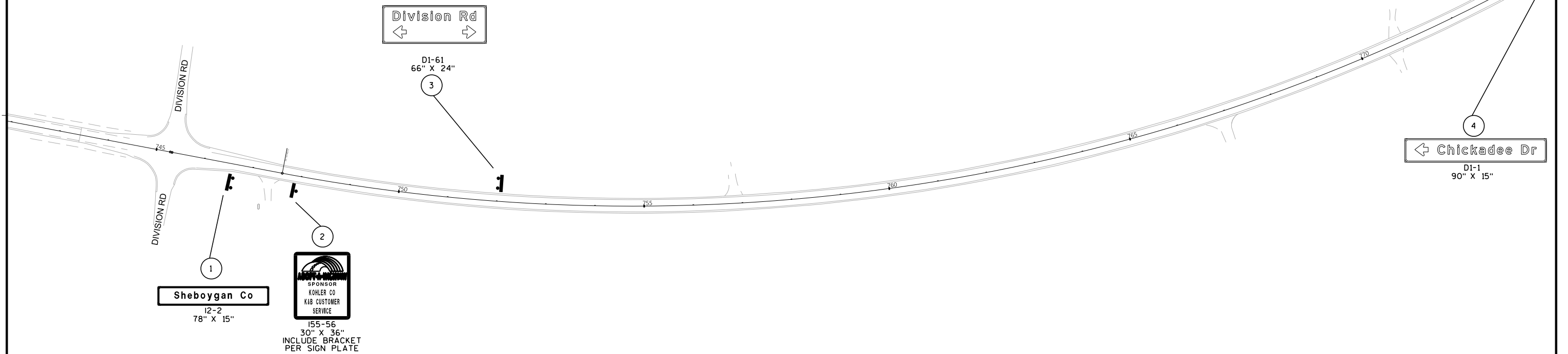
THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

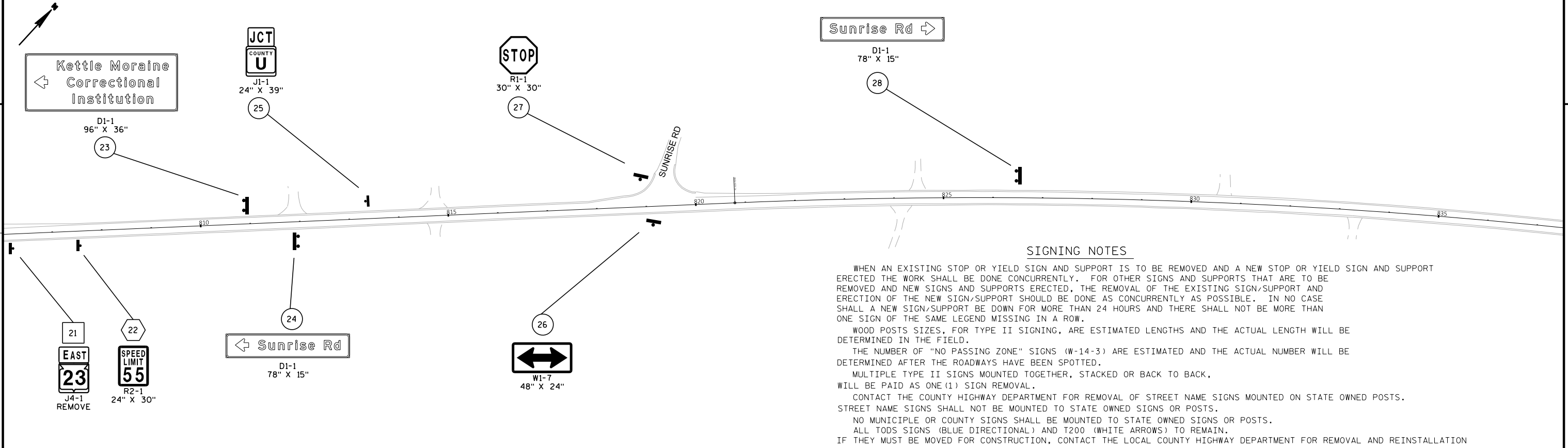
A SINGLE ROW OF 42-INCH CONES ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50-FOOT SPACING.



THE W06-3 WITH THE W057-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND/OR 500 FEET BEYOND ANY SIDEROAD. THE W06-3 WITH THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE W06-3 AND THE W057-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN W06-3 SIGNS.

- 2 CONVENTIONAL: 24"x30"
FREEWAY AND EXPRESSWAY: 36"x48"





SIGNING NOTES

WHEN AN EXISTING STOP OR YIELD SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP OR YIELD SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.

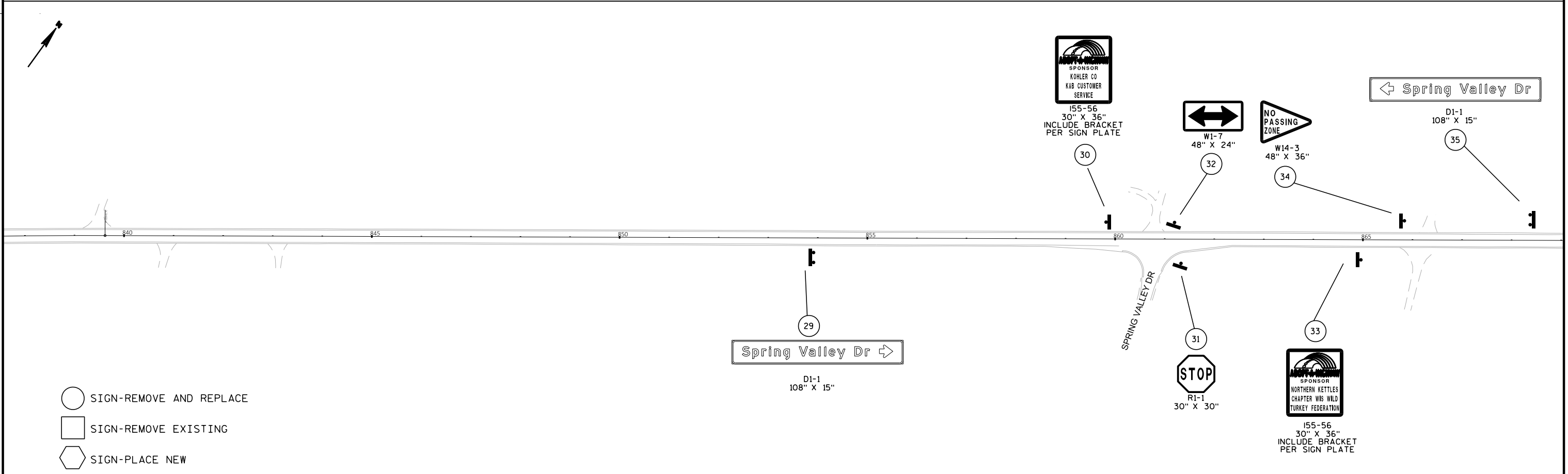
MULTIPLE TYPE II SIGNS MOUNTED TOGETHER, STACKED OR BACK TO BACK, WILL BE PAID AS ONE (1) SIGN REMOVAL.

CONTACT THE COUNTY HIGHWAY DEPARTMENT FOR REMOVAL OF STREET NAME SIGNS MOUNTED ON STATE OWNED POSTS. STREET NAME SIGNS SHALL NOT BE MOUNTED TO STATE OWNED SIGNS OR POSTS.

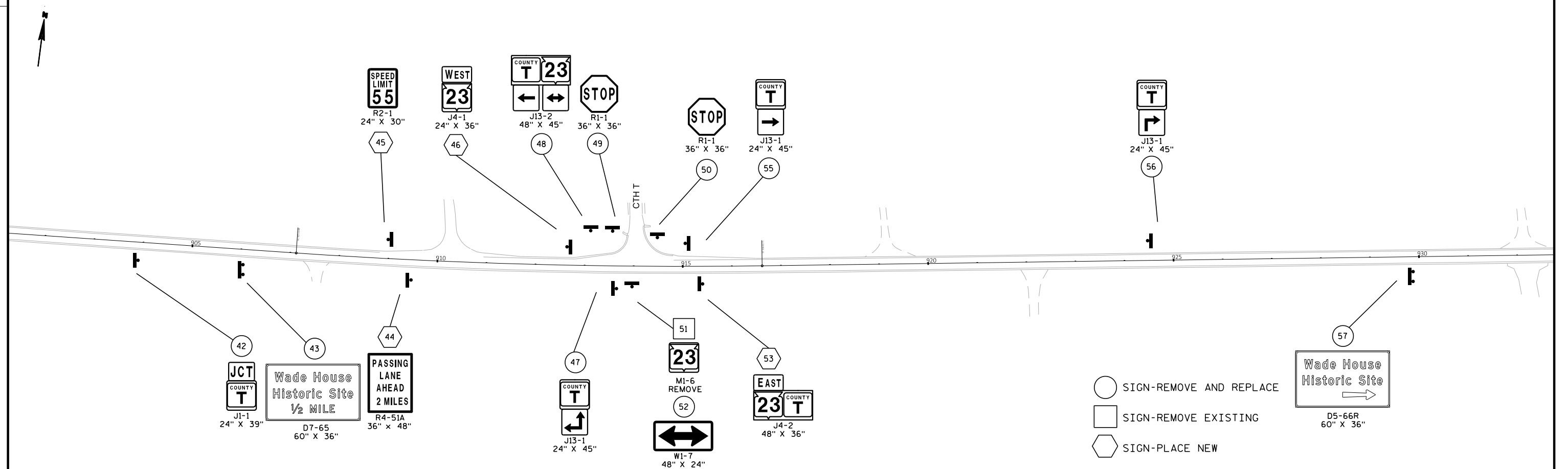
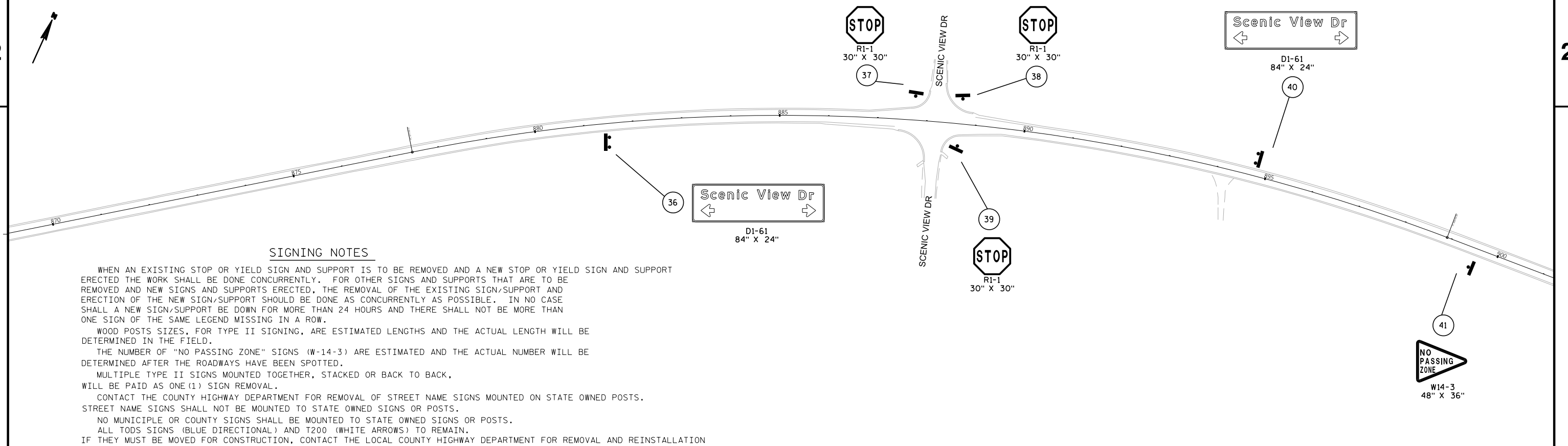
NO MUNICIPAL OR COUNTY SIGNS SHALL BE MOUNTED TO STATE OWNED SIGNS OR POSTS.

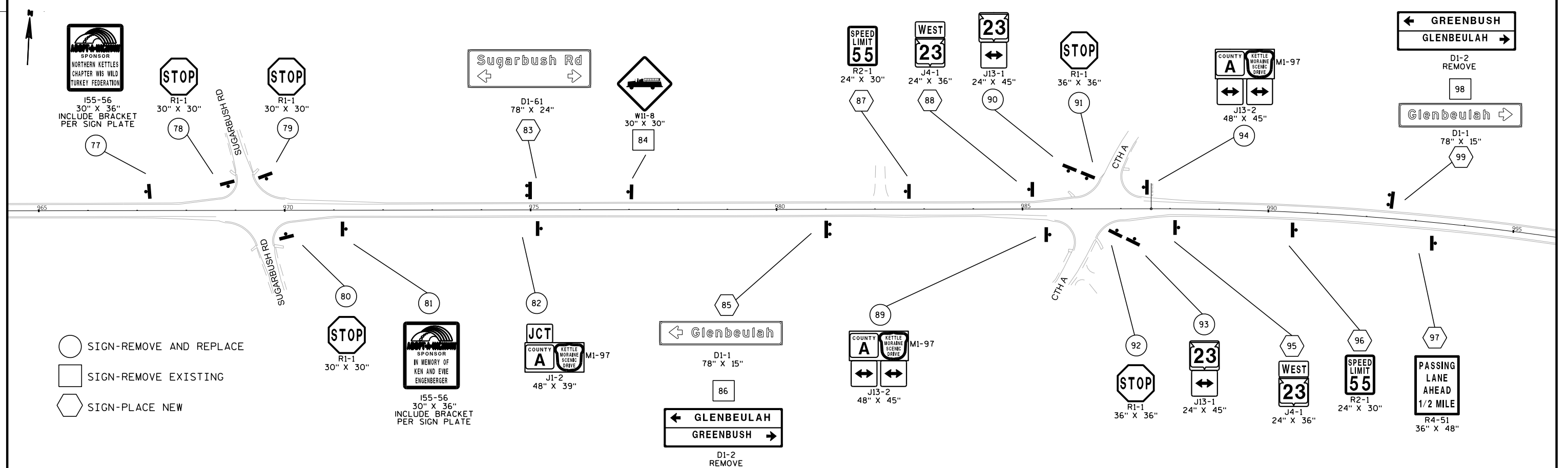
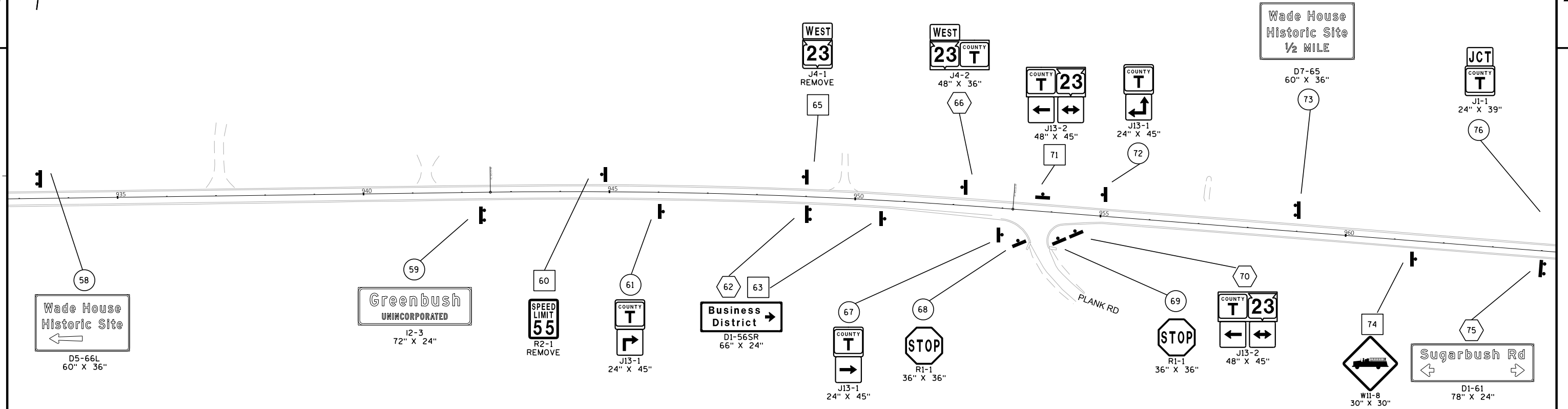
ALL TODS SIGNS (BLUE DIRECTIONAL) AND T200 (WHITE ARROWS) TO REMAIN.

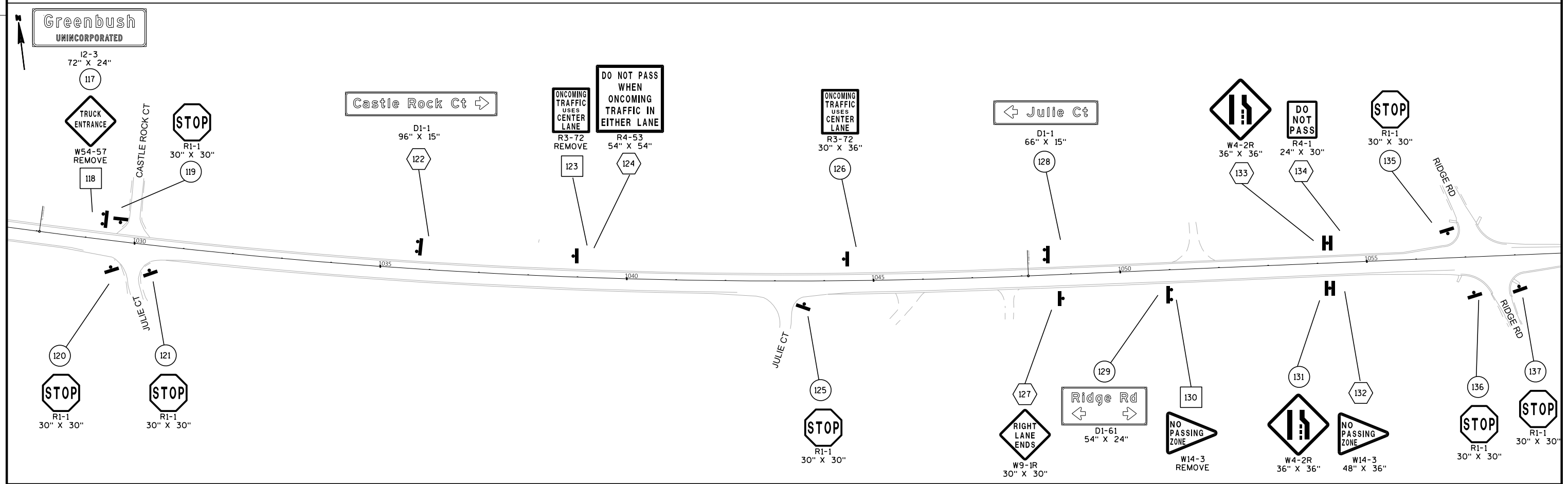
IF THEY MUST BE MOVED FOR CONSTRUCTION, CONTACT THE LOCAL COUNTY HIGHWAY DEPARTMENT FOR REMOVAL AND REINSTALLATION

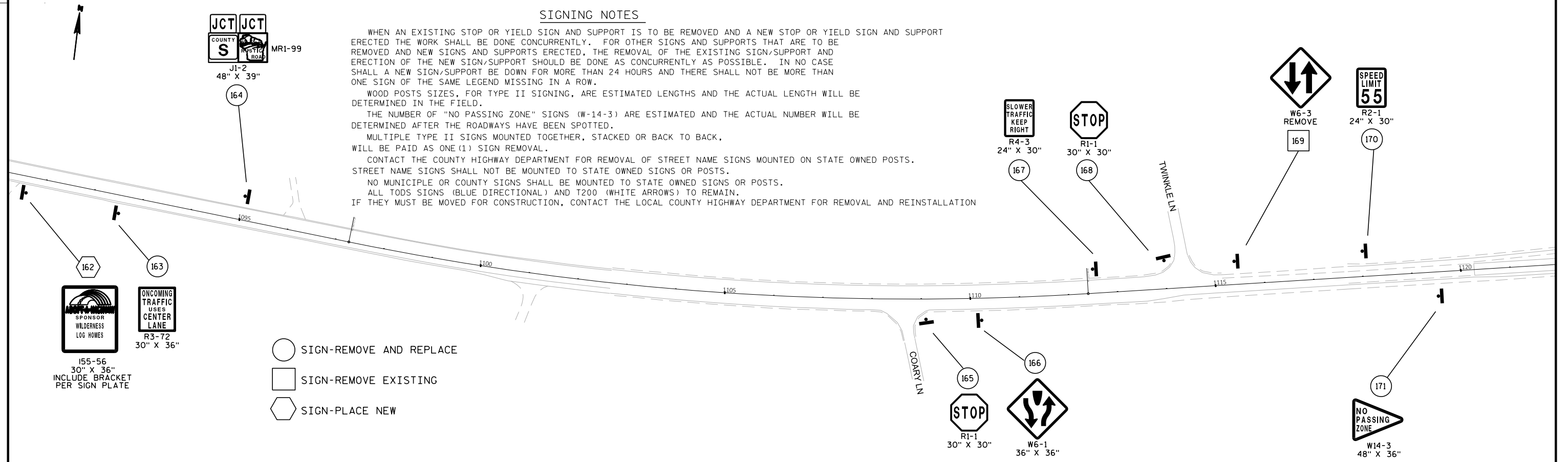


- SIGN-REMOVE AND REPLACE
- SIGN-REMOVE EXISTING
- SIGN-PLACE NEW









Estimate Of Quantities

1440-38-60					
Line	Item	Item Description	Unit	Total	Qty
0002	201.0110	Clearing	SY	68.000	68.000
0004	201.0120	Clearing	ID	35.000	35.000
0006	204.0115	Removing Asphaltic Surface Butt Joints	SY	145.000	145.000
0008	204.0120	Removing Asphaltic Surface Milling	SY	157,427.000	157,427.000
0010	213.0100	Finishing Roadway (project) 01. 1440-38-60	EACH	1.000	1.000
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	4,114.000	4,114.000
0014	305.0500	Shaping Shoulders	STA	765.000	765.000
0016	440.4410	Incentive IRI Ride	DOL	58,360.000	58,360.000
0018	455.0605	Tack Coat	GAL	10,976.000	10,976.000
0020	460.2005	Incentive Density PWL HMA Pavement	DOL	13,905.000	13,905.000
0022	460.2010	Incentive Air Voids HMA Pavement	DOL	21,105.000	21,105.000
0024	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	47,814.000	47,814.000
0026	460.6224	HMA Pavement 4 MT 58-28 S	TON	21,105.000	21,105.000
0028	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	30,895.000	30,895.000
0030	521.1530	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 30-Inch 6 to 1	EACH	2.000	2.000
0032	614.0400	Adjusting Steel Plate Beam Guard	LF	412.000	412.000
0034	614.0950	Replacing Guardrail Posts and Blocks	EACH	2.000	2.000
0036	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1440-38-60	EACH	1.000	1.000
0038	619.1000	Mobilization	EACH	1.000	1.000
0040	624.0100	Water	MGAL	57.700	57.700
0042	633.1000	Delineator Brackets	EACH	9.000	9.000
0044	633.5200	Markers Culvert End	EACH	7.000	7.000
0046	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	91.000	91.000
0048	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	84.000	84.000
0050	637.2210	Signs Type II Reflective H	SF	1,081.660	1,081.660
0052	637.2230	Signs Type II Reflective F	SF	142.000	142.000
0054	638.2602	Removing Signs Type II	EACH	125.000	125.000
0056	638.3000	Removing Small Sign Supports	EACH	155.000	155.000
0058	642.5201	Field Office Type C	EACH	1.000	1.000
0060	643.0300	Traffic Control Drums	DAY	120.000	120.000
0062	643.0310.S	Temporary Portable Rumble Strips	LS	1.000	1.000
0064	643.0420	Traffic Control Barricades Type III	DAY	10.000	10.000
0066	643.0705	Traffic Control Warning Lights Type A	DAY	8.000	8.000
0068	643.0715	Traffic Control Warning Lights Type C	DAY	28.000	28.000
0070	643.0800	Traffic Control Arrow Boards	DAY	4.000	4.000
0072	643.0900	Traffic Control Signs	DAY	1,404.000	1,404.000
0074	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0076	643.1070	Traffic Control Cones 42-Inch	DAY	90.000	90.000

Estimate Of Quantities

1440-38-60					
Line	Item	Item Description	Unit	Total	Qty
0078	643.5000	Traffic Control	EACH	1.000	1.000
0080	646.1020	Marking Line Epoxy 4-Inch	LF	42,470.000	42,470.000
0082	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	73,800.000	73,800.000
0084	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	190.000	190.000
0086	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	43,310.000	43,310.000
0088	648.0100	Locating No-Passing Zones	MI	7.500	7.500
0090	649.0105	Temporary Marking Line Paint 4-Inch	LF	3,020.000	3,020.000
0092	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	660.000	660.000
0094	650.8000	Construction Staking Resurfacing Reference	LF	39,398.000	39,398.000
0096	650.9910	Construction Staking Supplemental Control (project) 01. 1440-38-60	LS	1.000	1.000
0098	690.0150	Sawing Asphalt	LF	631.000	631.000
0100	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0102	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0104	SPV.0060	Special 01. HMA Percent within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0106	SPV.0060	Special 02. HMA Percent within Limits (PWL) Test Strip Density	EACH	1.000	1.000

3

REMOVING ASPHALTIC SURFACE BUTT JOINTS

STATION TO STATION		LOCATION	204. 0115 SY	REMARKS
CATEGORY 0010				
743+42 - 743+42		STH 23	7	BEGINNING OF PROJECT
745+15 - 745+44		DIVISION ROAD	6	NORTH OF STH 23
745+17 - 745+45		DIVISION ROAD	6	SOUTH OF STH 23
780+76 - 781+05		CHICKADEE DRIVE	7	NORTH OF STH 23
803+56 - 803+82		CTH U	6	SOUTH OF STH 23
819+34 - 819+61		SUNRISE ROAD	6	NORTH OF STH 23
860+57 - 860+85		SPRING VALLEY DRIVE	6	SOUTH OF STH 23
888+06 - 888+32		SCENIC VIEW DRIVE	6	NORTH OF STH 23
888+02 - 888+31		SCENIC VIEW DRIVE	6	SOUTH OF STH 23
913+91 - 914+19		CTH T	6	NORTH OF STH 23
953+75 - 954+00		PLANK ROAD	6	SOUTH OF STH 23
969+02 - 969+32		SUGARBUSH ROAD	7	NORTH OF STH 23
969+46 - 969+77		SUGARBUSH ROAD	7	SOUTH OF STH 23
986+78 - 987+03		CTH A	6	NORTH OF STH 23
986+04 - 986+29		CTH A	6	SOUTH OF STH 23
1012+63 - 1012+86		PLANK ROAD	6	SOUTH OF STH 23
1056+87 - 1057+16		RIDGE ROAD	7	NORTH OF STH 23
1057+60 - 1057+88		RIDGE ROAD	7	SOUTH OF STH 23
1084+81 - 1085+11		CTH S	7	NORTH OF STH 23
1084+96 - 1085+26		CTH S	7	SOUTH OF STH 23
1108+66 - 1108+87		COARY LANE	5	SOUTH OF STH 23
1114+20 - 1114+46		TWINKLE LANE	6	NORTH OF STH 23
1120+27 - 1120+27		STH 23	6	END OF EB LANES

TOTAL 145

BEAM GUARD

614. 0400
ADJUSTING
STEEL PLATE
BEAM GUARD

614. 0950
REPLACING
GUARDRAIL
POSTS AND
BLOCKS

STATION TO STATION	LOCATION	LF	EA	REMARKS
CATEGORY 0010				
974+94 - 975+50	STH 23	56		ADJUST HEIGHT
977+00 - 979+44	STH 23	244		ADJUST HEIGHT
980+38 - 981+50	STH 23	112		ADJUST HEIGHT
975+53			1	
981+53			1	
TOTAL 412 2				

CLEARING

STATION TO STATION		LOCATION	201. 0110 SY	201. 0120 ID	REMARKS
CATEGORY 0010					
788+20 - 788+64		STH 23		30	CUT LOW TREE BRANCHES BACK 50' FROM LANE LINE
805+50 - 811+50		STH 23	67		CLEAR TREES
894+49 - 894+50		STH 23		5	CLEAR TREE
998+53 - 998+57		STH 23	1		CLEAR TREE
TOTAL			68	35	

REMOVING ASPHALTIC SURFACE MILLING

STATION TO STATION		LOCATION	204. 0120 SY	REMARKS
CATEGORY 0010				
743+42 - 744+56		STH 23	456	BEGINNING OF PROJECT TO DIVISION ROAD INTERSECTION
744+56 - 746+06		STH 23	1,394	DIVISION ROAD INTERSECTION
746+06 - 780+44		STH 23	11,766	DIVISION ROAD INTERSECTION TO CHICKADEE DRIVE INTERSECTION
780+44 - 781+80		STH 23	892	CHICKADEE DRIVE INTERSECTION
781+80 - 803+21		STH 23	7,445	CHICKADEE DRIVE INTERSECTION TO CTH U INTERSECTION
803+21 - 804+54		STH 23	1,034	CTH U INTERSECTION
804+54 - 818+55		STH 23	4,896	CTH U INTERSECTION TO SUNRISE ROAD INTERSECTION
818+55 - 820+01		STH 23	977	SUNRISE ROAD INTERSECTION
820+01 - 860+14		STH 23	13,529	SUNRISE ROAD INTERSECTION TO SPRING VALLEY DRIVE INTERSECTION
860+14 - 861+51		STH 23	922	SPRING VALLEY DRIVE INTERSECTION
861+51 - 887+42		STH 23	8,816	SPRING VALLEY DRIVE INTERSECTION TO SCENIC VIEW DRIVE INTERSECTION
887+42 - 888+92		STH 23	1,394	SCENIC VIEW DRIVE INTERSECTION
888+92 - 913+48		STH 23	8,421	SCENIC VIEW DRIVE INTERSECTION TO CTH T INTERSECTION
913+48 - 914+80		STH 23	865	CTH T INTERSECTION
914+80 - 968+64		STH 23	18,613	CTH T INTERSECTION TO SUGARBUSH ROAD INTERSECTION
968+64 - 970+14		STH 23	1,399	SUGARBUSH ROAD INTERSECTION
970+14 - 985+63		STH 23	5,372	SUGARBUSH ROAD INTERSECTION TO CTH A INTERSECTION
985+63 - 987+43		STH 23	1,686	CTH A INTERSECTION
987+43 - 1056+53		STH 23	29,604	CTH A INTERSECTION TO RIDGE ROAD INTERSECTION
1056+53 - 1058+21		STH 23	1,698	RIDGE ROAD INTERSECTION
1058+21 - 1084+37		STH 23	12,572	RIDGE ROAD INTERSECTION TO CTH S INTERSECTION
1084+37 - 1085+71		STH 23	1,410	CTH S INTERSECTION
1085+71 - 1120+27		STH 23	17,642	CTH S INTERSECTION TO END OF EB LANES
1120+27 - 1137+40		STH 23	4,624	END OF EB LANES TO END OF PROJECT

TOTAL 157,427

PROJECT NO: 1440-38-60

HWY: STH 23

COUNTY: SHEBOYGAN

MISCELLANEOUS QUANTITIES

SHEET:

E

3

SHOULDER WORK SUMMARY

		305. 0110 BASE AGGREGATE DENSE 3/4-INCH		305. 0500 SHAPING SHOULDERS	624. 0100 WATER	
STATION TO	STATION	LOCATION	TON	STA	MGAL	REMARKS
CATEGORY 0010						
743+42 -	744+75	STH 23, LT	3	2	0.0	BEGINNING OF PROJECT TO DIVISION ROAD CURB AND GUTTER
746+06 -	780+44	STH 23, LT	110	35	1.5	DIVISION ROAD CURB AND GUTTER TO CHICKADEE DRIVE
781+79 -	818+56	STH 23, LT	119	37	1.7	CHICKADEE DRIVE TO SUNRISE ROAD CURB AND GUTTER
820+02 -	887+65	STH 23, LT	220	68	3.1	SUNRISE ROAD CURB AND GUTTER TO SCENIC VIEW DRIVE CURB AND GUTTER
888+92 -	913+49	STH 23, LT	79	25	1.1	SCENIC VIEW DRIVE CURB AND GUTTER TO CTH T CURB AND GUTTER
914+80 -	968+64	STH 23, LT	177	54	2.5	CTH T CURB AND GUTTER TO SUGARBUSH ROAD CURB AND GUTTER
970+01 -	986+05	STH 23, LT	52	17	0.7	SUGARBUSH ROAD CURB AND GUTTER TO CTH A CURB AND GUTTER
987+42 -	1056+54	STH 23, LT	227	70	3.2	CTH A CURB AND GUTTER TO RIDGE ROAD CURB AND GUTTER
1057+85 -	1084+42	STH 23, LT	86	27	1.2	RIDGE ROAD CURB AND GUTTER TO CTH S CURB AND GUTTER
1085+70 -	1113+79	STH 23, LT	92	29	1.3	CTH S CURB AND GUTTER TO TWINKLE LANE
1114+97 -	1120+27	STH 23, LT	14	6	0.2	TWINKLE LANE TO END OF EB LANES
1120+27 -	1129+18	STH 23, LT	22	9	0.3	END OF EB LANES TO TEMPORARY BARRIER
743+42 -	744+56	STH 23, RT	3	2	0.0	BEGINNING OF PROJECT TO DIVISION ROAD CURB AND GUTTER
745+85 -	803+22	STH 23, RT	187	58	2.6	DIVISION ROAD CURB AND GUTTER AND TO CTH U CURB AND GUTTER
804+54 -	860+14	STH 23, RT	181	56	2.5	CTH U CURB AND GUTTER TO SPRING VALLEY DRIVE CURB AND GUTTER
861+50 -	887+43	STH 23, RT	84	26	1.2	SPRING VALLEY DRIVE CURB AND GUTTER TO SCENIC VIEW DRIVE CURB AND GUTTER
888+72 -	952+98	STH 23, RT	210	65	2.9	SCENIC VIEW DRIVE CURB AND GUTTER TO PLANK ROAD CURB AND GUTTER
954+27 -	968+78	STH 23, RT	47	15	0.7	PLANK ROAD CURB AND GUTTER TO SUGARBUSH ROAD CURB AND GUTTER
970+14 -	985+64	STH 23, RT	50	16	0.7	SUGARBUSH ROAD CURB AND GUTTER TO CTH A CURB AND GUTTER
987+09 -	1012+30	STH 23, RT	82	26	1.2	CTH A CURB AND GUTTER TO PLANK ROAD CURB AND GUTTER
1013+77 -	1056+88	STH 23, RT	141	44	2.0	PLANK ROAD CURB AND GUTTER TO RIDGE ROAD CURB AND GUTTER
1058+21 -	1084+37	STH 23, RT	85	27	1.2	RIDGE ROAD CURB AND GUTTER TO CTH S CURB AND GUTTER
1085+67 -	1108+18	STH 23, RT	74	23	1.0	CTH S CURB AND GUTTER TO COARY LANE
1109+16 -	1120+27	STH 23, RT	37	12	0.5	COARY LANE TO END OF EB LANES
1124+52 -	1137+40	STH 23, RT	34	13	0.5	END OF EB LANES TO END OF PROJECT
1113+79 -	1114+97	STH 23	4	2	0.1	TWINKLE LANE SHOULDERS
1108+18 -	1109+16	STH 23	4	1	0.1	COARY LANE SHOULDERS
						0.0
746+40 -	775+07	STH 23	323		4.5	WEDGING AT CURVE TO CORRECT SUPERELEVATION
785+84 -	799+54	STH 23	176		2.5	WEDGING AT CURVE TO CORRECT SUPERELEVATION
876+26 -	900+10	STH 23	221		3.1	WEDGING AT CURVE TO CORRECT SUPERELEVATION
986+61 -	1006+19	STH 23	518		7.3	WEDGING AT CURVE TO CORRECT SUPERELEVATION
1096+26 -	1113+41	STH 23	452		6.3	WEDGING AT CURVE TO CORRECT SUPERELEVATION
TOTALS			4,114	765	57.7	

ASPHALTIC MATERIALS SUMMARY

		455. 0605 TACK COAT	460. 4110. S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS	460. 6224 HMA PAVEMENT 4 MT 58-28 S	460. 2005 INCENTIVE DENSITY PWL HMA PAVEMENT	460. 2010 INCENTIVE AIR VOIDS HMA PAVEMENT	
STATION TO STATION	LOCATION	GAL	LF	TON	TON*	TON**	REMARKS
CATEGORY 0010							
743+42 - 804+04	STH 23	1, 414	6, 062	2, 425	1, 940	2, 425	BEGINNING OF PROJECT TO CTH U INTERSECTION
804+04 - 860+95	STH 23	1, 328	5, 691	2, 276	1, 821	2, 276	CTH U INTERSECTION TO SPRING VALLEY DRIVE INTERSECTION
860+95 - 914+04	STH 23	1, 239	5, 309	2, 124	1, 699	2, 124	SPING VALLEY DRIVE INTERSECTION TO CTH T INTERSECTION
914+04 - 986+54	STH 23	1, 692	7, 250	2, 900	2, 320	2, 900	CTH T INTERSECTION TO CTH A INTERSECTION
986+54 - 1057+36	STH 23	1, 652	7, 082	2, 833	2, 266	2, 833	CTH A INTERSECTION TO RIDGE ROAD INTERSECTION
1057+36 - 1120+27	STH 23	1, 468	6, 291	2, 516	2, 013	2516	RIDGE ROAD INTERSECTION TO END OF EB LANES
1120+27 - 1137+40	STH 23	324	-	555	274	555	END OF EB LANES TO END OF PROJECT
1017+39 - 1022+74	STH 23, LT	25	-	44	-	44	TURN LANE
1016+83 - 1065+23	STH 23, RT	436	4, 840	748	748	748	PASSING LANE
1062+09 - 1114+98	STH 23, LT	481	5, 289	824	824	824	PASSING LANE
1099+73 - 1114+35	STH 23, RT	76	-	130	-	130	WIDE SHOULDER
1114+98 - 1120+27	STH 23, LT	50	-	86	-	86	WIDE SHOULDER
743+57 - 746+62	STH 23, RT	36	-	119	-	119	DIVISION ROAD SOUTH (4-IN HMA DEPTH)
743+98 - 747+85	STH 23, LT	39	-	128	-	128	DIVISION ROAD NORTH (4-IN HMA DEPTH)
779+63 - 783+25	STH 23, LT	38	-	125	-	125	CHICKADEE DRIVE (4-IN HMA DEPTH)
801+20 - 805+36	STH 23, RT	42	-	137	-	137	CTH U (4-IN HMA DEPTH)
817+81 - 821+97	STH 23, LT	43	-	143	-	143	SUNRISE ROAD (4-IN HMA DEPTH)
858+50 - 862+34	STH 23, RT	40	-	69	-	69	SPRING VALLEY DRIVE INTERSECTION
885+80 - 889+58	STH 23, RT	37	-	122	-	122	SCENIC VIEW DRIVE SOUTH (4-IN HMA DEPTH)
886+85 - 890+30	STH 23, LT	35	-	114	-	114	SCENIC VIEW DRIVE NORTH (4-IN HMA DEPTH)
912+72 - 916+58	STH 23, LT	37	-	63	-	63	CTH T
950+69 - 954+78	STH 23, RT	39	-	66	-	66	PLANK ROAD
967+27 - 971+03	STH 23, RT	36	-	62	-	62	SUGARBUSH ROAD SOUTH
967+81 - 972+04	STH 23, LT	39	-	66	-	66	SUGARBUSH ROAD NORTH
984+16 - 988+05	STH 23, RT	45	-	77	-	77	CTH A SOUTH
985+20 - 988+92	STH 23, LT	42	-	139	-	139	CTH A NORTH (4-IN HMA DEPTH)
1010+92 - 1014+60	STH 23, RT	47	-	80	-	80	PLANK ROAD
1028+58 - 1030+89	STH 23, RT	7	-	11	-	11	JULIE COURT
1041+88 - 1044+07	STH 23, RT	3	-	5	-	5	JULIE COURT
1055+07 - 1059+02	STH 23, RT	38	-	64	-	64	RIDGE ROAD SOUTH
1055+74 - 1059+38	STH 23, LT	39	-	66	-	66	RIDGE ROAD NORTH
1082+63 - 1086+54	STH 23, RT	33	-	108	-	108	CTH S SOUTH (4-IN HMA DEPTH)
1083+63 - 1087+60	STH 23, LT	35	-	114	-	114	CTH S NORTH(4-IN HMA DEPTH)
1108+15 - 1109+17	STH 23, RT	17	-	29	-	29	COARY LANE
1113+54 - 1114+98	STH 23, LT	24	-	42	-	42	TWINKLE LANE
746+40 - 775+07	STH 23	-	-	323	-	323	WEDGING AT CURVE TO CORRECT SUPERELEVATION
785+84 - 799+54	STH 23	-	-	176	-	176	WEDGING AT CURVE TO CORRECT SUPERELEVATION
876+26 - 900+10	STH 23	-	-	221	-	221	WEDGING AT CURVE TO CORRECT SUPERELEVATION
986+61 - 1006+19	STH 23	-	-	518	-	518	WEDGING AT CURVE TO CORRECT SUPERELEVATION
1096+26 - 1113+41	STH 23	-	-	452	-	452	WEDGING AT CURVE TO CORRECT SUPERELEVATION
	STH 23	-	-	5	-	5	ADDITIONAL HMA FOR PATCHING *SEE PLAN FOR LOCATIONS*
TOTAL		10, 976	47, 814	21, 105	13, 905	21, 105	

* Tonnage is eligible for Incentive Density PWL 460.2005 and Incentive Air Voids 460.2010.
** Tonnage is eligible for Incentive Air Voids 460.2010 and density is tested for acceptance in those areas.

SAWING ASPHALT

690. 0150				
STATION TO STATION		LOCATION	LF	REMARKS
CATEGORY 0010				
743+42 - 743+42		STH 23	32	BEGINNING OF PROJECT
745+15 - 745+44		DIVISION ROAD	29	NORTH OF STH 23
745+17 - 745+45		DIVISION ROAD	28	SOUTH OF STH 23
780+76 - 781+05		CHICKADEE DRIVE	30	NORTH OF STH 23
803+56 - 803+82		CTH U	27	SOUTH OF STH 23
819+34 - 819+61		SUNRISE ROAD	28	NORTH OF STH 23
860+57 - 860+85		SPRING VALLEY DRIVE	28	SOUTH OF STH 23
888+06 - 888+32		SCENIC VIEW DRIVE	27	NORTH OF STH 23
888+02 - 888+31		SCENIC VIEW DRIVE	29	SOUTH OF STH 23
913+91 - 914+19		CTH T	28	NORTH OF STH 23
953+75 - 954+00		PLANK ROAD	28	SOUTH OF STH 23
969+02 - 969+32		SUGARBUSH ROAD	31	NORTH OF STH 23
969+46 - 969+77		SUGARBUSH ROAD	32	SOUTH OF STH 23
986+78 - 987+03		CTH A	28	NORTH OF STH 23
986+04 - 986+29		CTH A	28	SOUTH OF STH 23
1012+63 - 1012+86		PLANK ROAD	27	SOUTH OF STH 23
1056+87 - 1057+16		RIDGE ROAD	31	NORTH OF STH 23
1057+60 - 1057+88		RIDGE ROAD	30	SOUTH OF STH 23
1084+81 - 1085+11		CTH S	30	NORTH OF STH 23
1084+96 - 1085+26		CTH S	31	SOUTH OF STH 23
1108+66 - 1108+87		COARY LANE	22	SOUTH OF STH 23
1114+20 - 1114+46		TWINKLE LANE	27	NORTH OF STH 23

TOTAL 631

MARKERS CULVERT END

633.5200		
STATION TO STATION	LOCATION	EACH
CATEGORY 0010		
754+63	STH 23, LT	1
772+55	STH 23, RT	1
887+56	STH 23, RT	1
905+19	STH 23, LT	1
918+20	STH 23, LT	1
1054+87	STH 23, RT	1
1123+05	STH 23, RT	1

TOTAL 7

LOCATING NO-PASSING ZONES

648.0100		
STATION TO STATION	LOCATION	MI
CATEGORY 0010		
743+42 - 1137+40	STH 23	7.5

TOTAL 7.5

DELINEATOR BRACKETS

633.1000			
STATION TO STATION	LOCATION	EACH	REMARKS
CATEGORY 0010			
1129+18 - 1137+40	STH 23	9	TOP OF TEMPORARY BARRIER AT END OF PROJECT

TOTAL 9

FIELD OFFICE TYPE C

642. 5201				
STATION TO	STATION	LOCATION	EACH	REMARKS
CATEGORY 0010				
743+42 -	1137+40	STH 23	1	ENTIRE PROJECT LENGTH

TOTAL 1

TEMPORARY PORTABLE RUMBLE STRIPS

643.0310.S			
STATION TO STATION	LOCATION	LS	REMARKS
CATEGORY 0010			
743+42 - 1137+40	STH 23	1	ENTIRE PROJECT LENGTH

TOTAL 1

CONSTRUCTION STAKING SUMMARY

		650.8000	650.9910
		RESURFACING	SUPPLEMENTAL
		REFERENCE	CONTROL
STATION TO STATION	LOCATION	LF	LS
CATEGORY 0010			
743+42 - 1137+40	STH 23	39,398	1

TOTAL 39,398 1

PAVEMENT MARKING SUMMARY

STATION TO STATION	LOCATION	646. 1020	646. 4520	WHITE	646. 1040	646. 3040	649. 0105	649. 0150	REMARKS
		MARKING LINE	MARKING LINE		MARKING LINE	MARKING LINE	TEMPORARY	TEMPORARY	
		EPOXY	SAME DAY EPOXY		GROOVED WET	GROOVED WET	MARKING	MARKING LINE	
		4-INCH	4-INCH		4-INCH	8-INCH	4-INCH	4-INCH	
		YELLOW	YELLOW		WHITE	WHITE	YELLOW	WHITE	
		LF	LF	LF	LF	LF	LF	LF	
CATEGORY 0010									
743+42 - 745+00	STH 23	320	320	--	240	--	10	--	Begin to Division
745+00 - 781+00	STH 23	6,140	6,140	--	6,960	--	290	--	Division to Chickadee
781+00 - 804+00	STH 23	2,640	2,640	--	4,440	--	180	--	Chick to CTH U
804+00 - 819+00	STH 23	540	540	--	2,910	--	120	--	CTH U to Sunrise
819+00 - 861+00	STH 23	1,050	1,050	--	8,210	--	340	--	Sunrise to Spring Valley
861+00 - 888+00	STH 23	4,000	4,000	--	5,260	--	220	--	Spring Valley to Scenic View
888+00 - 914+00	STH 23	3,880	3,880	--	4,990	--	210	--	Scenic View Dr to CTH T
914+00 - 970+00	STH 23	1,400	1,400	--	10,730	--	450	--	CTH T to Sugarbush
970+00 - 987+00	STH 23	430	430	--	3,150	--	140	--	Sugarbush to CTH A
987+00 - 1057+00	STH 23	7,420	7,420	970	13,740	190	560	--	CTH A to Ridge Road
1057+00 - 1085+00	STH 23	5,200	5,200	680	5,280	--	220	--	Ridge Road to CTH S
1085+00 - 1120+27	STH 23	7,050	7,050	710	6,700	--	280	--	CTH S to End of EB Lanes
1120+27 - 1137+40	STH 23	1,520	--	--	1,190	--	--	--	End of EB Lanes to End of Project
	CTH U	140	140	--	--	--	--	--	SOUTH OF STH 23
	CTH T	120	120	--	--	--	--	--	NORTH OF STH 23
	CTH T	120	120	--	--	--	--	--	SOUTH OF STH 23
	CTH A	150	150	--	--	--	--	--	SOUTH OF STH 23
	CTH A	140	140	--	--	--	--	--	NORTH OF STH 23
	CTH S	90	90	--	--	--	--	--	SOUTH OF STH 23
	CTH S	120	120	--	--	--	--	--	NORTH OF STH 23
	STH 23 WB	--	--	--	--	--	--	660	EAST OF CTH P
		<u>40,950</u>		<u>2,360</u>					
TOTALS		42,470	43,310		73,800	190	3,020	660	

ASPHALT CENTERLINE RUMBLE STRIPS 2-LANE RURAL

STATION TO		STATION	LOCATI ON	465. 0475 LF	REMARKS
CATEGORY 0010					
743+42 -		804+04	STH 23	5, 072	BEGINNING OF PROJECT TO CTH U INTERSECTION
804+04 -		860+95	STH 23	4, 891	CTH U INTERSECTION TO SPRING VALLEY DRIVE INTERSECTION
860+95 -		914+04	STH 23	4, 509	SPING VALLEY DRIVE INTERSECTION TO CTH T INTERSECTION
914+04 -		986+54	STH 23	6, 050	CTH T INTERSECTION TO CTH A INTERSECTION
986+54 -		1057+36	STH 23	5, 482	CTH A INTERSECTION TO RIDGE ROAD INTERSECTION
1057+36 -		1120+27	STH 23	4, 891	RIDGE ROAD INTERSECTION TO END OF EB LANES
1120+27 -		1137+40	STH 23	0	
			TOTAL 0010	30, 895	

STEEL APRON ENDWALLS FOR CULVERT PIPE

521. 1530
APRON ENDWALLS FOR
CULVERT PIPE SLOPED
SIDE DRAINS STEEL
30-INCH 6 TO 1

STATION TO		STATION	LOCATI ON	EACH	REMARKS
CATEGORY 0010					
969+15			STH 23	1	SW QUADRANT OF STH 23 AND SUGARBUSH ROAD
970+00			STH 23	1	SE QUADRANT OF STH 23 AND SUGARBUSH ROAD
TOTAL				2	

TRAFFIC CONTROL SUMMARY																				
			643. 0300		643. 0420		643. 0705		643. 0715		643. 0800		643. 0900		643. 1050		643. 1070			
			TRAFFI C		TRAFFI C		TRAFFI C		TRAFFI C		TRAFFI C		TRAFFI C		TRAFFI C		TRAFFI C			
			CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL			
			DRUMS		BARRI CADES		WARNING		WARNING		ARROW		SIGNS		SIGNS PCMS		CONES 42-INCH			
							LIGHTS TYPE A		LIGHTS TYPE C											
STATION TC	STATION	LOCATI ON	DAYS I N	NO.	TOTAL	NO.	TOTAL	NO.	TOTAL	NO.	TOTAL	NO.	TOTAL	NO.	TOTAL	NO.	TOTAL	NO.	TOTAL	REMARKS
			SERVICE	REQ' D	DAY	REQ' D	DAY	REQ' D	DAY	REQ' D	DAY	REQ' D	DAY	REQ' D	DAY	REQ' D	DAY	REQ' D	DAY	
CATEGORY 0010																				
743+42 - 1137+40		STH 23	7													2	14			
743+42 - 1137+40		STH 23	52											4	208					
743+42 - 1137+40		STH 23	17											4	68					FLAGGI NG OPERATIONS
974+94 - 981+50		STH 23 EB	2	20	40									5	10					BEAM GUARD ADJUSTMENTS
		STH 23 WB	2	40	80	2	4	4	8	14	28	2	4	9	18					LANE CLOSURE At CTH P
		STH 23 WB	2			3	6							2	4					INTERSECTION AT CTH P
1120+27 - 1140+48		STH 23 EB	2											2	4			45	90	TWO WAY OPERATION
		DI VI SI ON ROAD	52											2	104					
		CHI CKADEE DRIVE	52											1	52					
		CTH U	52											1	52					
		SUNRI SE ROAD	52											1	52					
		SPRI NG VALLEY DRIVE	52											1	52					
		SCENI C VIEW DRIVE	52											2	104					
		CTH T	52											1	52					
		PLANK ROAD	52											1	52					
		SUGARBUSH ROAD	52											2	104					
		CTH A	52											2	104					
		PLANK ROAD	52											1	52					
		RI DGE ROAD	52											2	104					
		CTH S	52											2	104					
		COARY LANE	52											1	52					
		TWI NKLE LANE	52											1	52					
TOTALS				60	120	5	10	4	8	14	28	2	4	47	1, 404	2	14	45	90	

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637. 2210 SIGNS TYPE II REFLECTIVE TYPE H S. F.	637. 2230 SIGNS TYPE II REFLECTIVE TYPE F S. F.	634. 0614 POSTS WOOD 4x6x14 EACH	634. 0616 POSTS WOOD 4x6x16 EACH	638. 2602 REMOVI NG SI GNS TYPE II EACH	638. 3000 REMOVI NG SMALL SI GN SUPPORTS EACH	REMARKS
1	STH 23, E. OF DIVISION RD	I 2-2	78" X 15"	8. 13	---	2	---	1	2	SEE SIGN DETAILS
2	"	I 55-56	30" X 36"	7. 50	---	---	1	1	1	KOHLER CO K&B CUSTOMER SERVICE, SEE PLAN SHEET
3	"	D1-61	66" X 24"	11. 00	---	2	---	1	2	SEE SIGN DETAILS
4	"	D1-1	90" X 15"	9. 38	---	2	---	1	2	SEE SIGN DETAILS
5	"	W14-3	48" X 36"	---	6. 00	---	1	1	1	
6	CHICKADEE RD	R1-1	30" X 30"	5. 18	---	1	---	1	1	
7	"	R1-1	30" X 30"	5. 18	---	1	---	1	1	
8	STH 23, E. OF CHICKADEE RD	W14-3	48" X 36"	---	6. 00	---	1	1	1	
9	"	D1-1	90" X 15"	9. 38	---	2	---	1	2	SEE SIGN DETAILS
10	"	J1-1	24" X 39"	6. 50	---	---	1	1	1	SEE PLAN SHEET
11	"	D1-1	96" X 36"	24. 00	---	---	2	1	2	SEE SIGN DETAILS
12	"	R2-1	24" X 30"	5. 00	---	1	---	---	---	55 MPH
13	"	J4-1	---	---	---	---	---	1	1	
14	"	J4-1	24" X 36"	6. 00	---	---	1	---	---	SEE PLAN SHEET
15	"	J13-1	24" X 45"	7. 50	---	---	1	1	1	SEE PLAN SHEET
16	"	W14-3	48" X 36"	---	6. 00	---	---	---	---	MOUNT TO BACK OF SIGN 15
17	CTH U	R1-1	36" X 36"	7. 46	---	---	1	1	1	
18	"	J13-1	24" X 45"	7. 50	---	---	1	---	---	SEE PLAN SHEET
19	STH 23, E. OF CTH U	J13-1	24" X 45"	7. 50	---	---	1	1	1	SEE PLAN SHEET
20	"	J4-1	24" X 36"	6. 00	---	---	1	---	---	SEE PLAN SHEET
21	"	J4-1	---	---	---	---	---	1	1	
22	"	R2-1	24" X 30"	5. 00	---	1	---	---	---	55 MPH
23	"	D1-1	96" X 36"	24. 00	---	---	2	1	2	SEE SIGN DETAILS
24	"	D1-1	78" X 15"	8. 13	---	2	---	1	2	SEE SIGN DETAILS
25	"	J1-1	24" X 39"	6. 50	---	---	1	1	1	SEE PLAN SHEET
26	"	W1-7	48" X 24"	---	8. 00	1	---	1	1	
27	SUNRISE RD	R1-1	30" X 30"	5. 18	---	1	---	1	1	
28	STH 23, E. OF SUNRISE RD	D1-1	78" X 15"	8. 13	---	2	---	1	2	SEE SIGN DETAILS
29	"	D1-1	108" X 15"	11. 25	---	2	---	1	2	SEE SIGN DETAILS
30	"	I 55-56	30" X 36"	7. 50	---	---	1	1	1	KOHLER CO K&B CUSTOMER SERVICE, SEE PLAN SHEET
31	SPRING VALLEY DR	R1-1	30" X 30"	5. 18	---	1	---	1	1	
32	STH 23, E. OF SPRING VALLEY DR	W1-7	48" X 24"	---	8. 00	1	---	1	1	
33	"	I 55-56	30" X 36"	7. 50	---	---	1	1	1	NORTHERN KETTLES CHAPTER WIS WILD TURKEY FEDERATION, SEE PLAN SHEET
34	"	W14-3	48" X 36"	---	6. 00	---	1	1	1	
35	"	D1-1	108" X 15"	11. 25	---	2	---	1	2	SEE SIGN DETAILS
PAGE SUBTOTALS				232. 81	40. 00	24	18	29	39	

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637. 2210 SIGNS TYPE II REFLECTIVE TYPE H S. F.	637. 2230 SIGNS TYPE II REFLECTIVE TYPE F S. F.	634. 0614 POSTS WOOD 4x6x14 EACH	634. 0616 POSTS WOOD 4x6x16 EACH	638. 2602 REMOVING SIGNS TYPE II EACH	638. 3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
36	STH 23, W. OF SCENIC VIEW DR	D1-61	84" X 24"	14.00	---	2	---	1	2	SEE SIGN DETAILS
37	SCENIC VIEW DR	R1-1	30" X 30"	5.18	---	1	---	1	1	
38	"	R1-1	30" X 30"	5.18	---	1	---	1	1	
39	"	R1-1	30" X 30"	5.18	---	1	---	1	1	
40	STH 23, E. OF SCENIC VIEW DR	D1-61	84" X 24"	14.00	---	2	---	1	2	SEE SIGN DETAILS
41	"	W14-3	48" X 36"	---	6.00	---	1	1	1	
42	"	J1-1	24" X 39"	6.50	---	---	1	1	1	SEE PLAN SHEET
43	"	D5-65	60" X 36"	15.00	---	---	2	1	2	SEE SIGN DETAILS
44	"	R4-51A	36" X 48"	12.00	---	---	1	---	---	
45	"	R2-1	24" X 30"	5.00	---	1	---	---	---	55 MPH
46	"	J4-1	24" X 36"	6.00	---	---	1	---	---	SEE PLAN SHEET
47	"	J13-1	24" X 45"	7.50	---	---	1	1	1	SEE PLAN SHEET
48	CTH T	J13-2	48" X 45"	15.00	---	---	1	1	1	SEE PLAN SHEET
49	"	R1-1	36" X 36"	7.46	---	---	1	1	1	
50	"	R1-1	36" X 36"	7.46	---	---	1	1	1	
51	STH 23, E. OF CTH T	M1-6	---	---	---	---	---	---	---	
52	"	W1-7	48" X 24"	---	8.00	1	---	1	1	
53	"	J4-2	48" X 36"	12.00	---	---	1	---	---	SEE PLAN SHEET
54	VACANT	---	---	---	---	---	---	---	---	
55	"	J13-1	24" X 45"	7.50	---	---	1	1	1	SEE PLAN SHEET
56	"	J13-1	24" X 45"	7.50	---	---	1	1	1	SEE PLAN SHEET
57	"	D5-66R	60" X 36"	15.00	---	---	2	1	2	SEE SIGN DETAILS
58	"	D5-66L	60" X 36"	15.00	---	---	2	1	2	SEE SIGN DETAILS
59	"	I2-3	72" X 24"	12.00	---	2	---	1	2	SEE SIGN DETAILS
60	"	R2-1	---	---	---	---	---	1	1	
61	"	J13-1	24" X 45"	7.50	---	---	1	1	1	SEE PLAN SHEET
62	"	D1-56SR	66" X 24"	11.00	---	2	---	---	---	
63	"	D1-56SR	---	---	---	---	---	1	2	
64	VACANT	---	---	---	---	---	---	---	---	
65	"	J4-1	---	---	---	---	---	1	1	
66	"	J4-2	48" X 36"	12.00	---	---	1	---	---	SEE PLAN SHEET
67	"	J13-1	24" X 45"	7.50	---	---	1	1	1	SEE PLAN SHEET
68	CTH T/PLANK RD	R1-1	36" X 36"	7.46	---	---	1	1	1	
69	"	R1-1	36" X 36"	7.46	---	---	1	1	1	
70	"	J13-2	48" X 45"	15.00	---	---	1	---	---	SEE PLAN SHEET

PAGE SUBTOTALS 262.38 14.00 13 23 25 32

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637. 2210 SIGNS TYPE II REFLECTIVE TYPE H S. F.	637. 2230 SIGNS TYPE II REFLECTIVE TYPE F S. F.	634. 0614 POSTS WOOD 4x6x14 EACH	634. 0616 POSTS WOOD 4x6x16 EACH	638. 2602 REMOVI NG SIGNS TYPE II EACH	638. 3000 REMOVI NG SMALL SIGN SUPPORTS EACH	REMARKS
71	STH 23, E. OF CTH T/PLANK RD	J13-2	---	---	---	---	---	1	1	
72	"	J13-1	24" X 45"	7. 50	---	---	1	1	1	SEE PLAN SHEET
73	"	D5-65	60" X 36"	15. 00	---	---	2	1	2	SEE SIGN DETAI LS
74	"	W11-8	---	---	---	---	---	1	1	
75	"	D1-61	78" X 24"	13. 00	---	2	---	---	---	SEE SIGN DETAI LS
76	"	J1-1	24" X 39"	6. 50	---	---	1	1	1	SEE PLAN SHEET
77	"	I 55-56	30" X 36"	7. 50	---	---	1	1	1	NORTHERN KETTLES CHAPTER WIS WILD TURKEY FEDERATION, SEE PLAN SHEET
78	SUGARBUSH RD	R1-1	30" X 30"	5. 18	---	1	---	1	1	
79	"	R1-1	30" X 30"	5. 18	---	1	---	1	1	
80	"	R1-1	30" X 30"	5. 18	---	1	---	1	1	
81	STH 23, E. OF SUGARBUSH RD	I 55-56	30" X 36"	7. 50	---	---	1	1	1	I N MEMORY OF KEN AND EVIE ENGENBERGER, SEE PLAN SHEET
82	"	J1-2	48" X 39"	13. 00	---	---	1	1	1	SEE PLAN SHEET, PLATE M1-97
83	"	D1-61	78" X 24"	13. 00	---	2	---	---	---	SEE SIGN DETAI LS
84	"	W11-8	---	---	---	---	---	1	1	
85	"	D1-1	78" X 15"	8. 13	---	2	---	---	---	SEE SIGN DETAI LS
86	"	D1-2	---	---	---	---	---	1	2	
87	"	R2-1	24" X 30"	5. 00	---	1	---	---	---	55 MPH
88	"	J4-1	24" X 36"	6. 00	---	---	1	---	---	SEE PLAN SHEET
89	"	J13-2	48" X 45"	15. 00	---	---	1	1	1	SEE PLAN SHEET, PLATE M1-97
90	CTH A	J13-1	24" X 45"	7. 50	---	---	1	1	1	SEE PLAN SHEET
91	"	R1-1	36" X 36"	7. 46	---	---	1	1	1	
92	"	R1-1	36" X 36"	7. 46	---	---	1	1	1	
93	"	J13-1	24" X 45"	7. 50	---	---	1	1	1	SEE PLAN SHEET
94	STH 23, E. OF CTH A	J13-2	48" X 45"	15. 00	---	---	1	1	1	SEE PLAN SHEET, PLATE M1-97
95	"	J4-1	24" X 36"	6. 00	---	---	1	---	---	SEE PLAN SHEET
96	"	R2-1	24" X 30"	5. 00	---	1	---	---	---	55 MPH
97	"	R4-51	36" X 48"	12. 00	---	---	1	---	---	
98	"	D1-2	---	---	---	---	---	1	2	
99	"	D1-1	78" X 15"	8. 13	---	2	---	---	---	SEE SIGN DETAI LS
100	"	J1-2	48" X 39"	13. 00	---	---	1	1	1	SEE PLAN SHEET, PLATE M1-97
101	"	D1-55R	66" X 24"	11. 00	---	2	---	1	2	SEE SIGN DETAI LS
102	"	D1-1	66" X 15"	6. 88	---	2	---	1	2	SEE SIGN DETAI LS
103	"	W54-57	---	---	---	---	---	---	---	
104	"	W54-57	30" X 30"	---	6. 25	1	---	---	---	
105	"	W14-3	48" X 36"	---	6. 00	---	1	1	1	

PAGE SUBTOTALS 239. 59 12. 25 18 18 24 29

3

SIGN NO.	LOCATION	SIGN CODE	W X H	637. 2210 SIGNS TYPE II REFLECTIVE TYPE H S. F.	637. 2230 SIGNS TYPE II REFLECTIVE TYPE F S. F.	634. 0614 POSTS WOOD 4x6x14 EACH	634. 0616 POSTS WOOD 4x6x16 EACH	638. 2602 REMOVING SIGNS TYPE II EACH	638. 3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
106	PLANK RD	R1-1	30" X 30"	5. 18	---	---	1	1	1	
107	"	J13-1	---	---	---	---	---	1	1	
108	STH 23, E. OF PLANK RD	J4-1	---	---	---	---	---	1	1	
109	"	D1-56SL	66" X 24"	11. 00	---	2	---	1	2	
110	"	R4-3	24" X 30"	5. 00	---	1	---	---	---	
111	"	R4-3	---	---	---	---	---	1	1	
112	"	D1-55L	66" X 24"	11. 00	---	2	---	1	2	SEE SIGN DETAILS
113	"	D1-1	66" X 15"	6. 88	---	2	---	1	2	SEE SIGN DETAILS
114	"	D1-2	96" X 30"	20. 00	---	2	---	1	2	SEE SIGN DETAILS
115	"	R2-1	24" X 30"	5. 00	---	1	---	1	1	55 MPH
116	"	W54-57	30" X 30"	---	6. 25	1	---	---	---	
117	"	I 2-3	72" X 24"	12. 00	---	2	---	1	2	SEE SIGN DETAILS
118	"	W54-57	---	---	---	---	---	---	---	
119	CASTLE ROCK CT	R1-1	30" X 30"	5. 18	---	1	---	1	1	
120	JULIE CT	R1-1	30" X 30"	5. 18	---	1	---	1	1	
121	"	R1-1	30" X 30"	5. 18	---	1	---	1	1	
122	STH 23, E. OF CASTLE ROCK CT	D1-1	96" X 15"	10. 00	---	2	---	---	---	SEE SIGN DETAILS
123	"	R3-72	---	---	---	---	---	1	1	
124	"	R4-53	54" X 24"	9. 00	---	2	---	---	---	
125	JULIE CT	R1-1	30" X 30"	5. 18	---	1	---	1	1	
126	STH 23, E. OF JULIE CT	R3-72	30" X 36"	7. 50	---	---	1	1	1	
127	"	W9-1R	30" X 30"	---	6. 25	1	---	---	---	
128	"	D1-1	66" X 15"	6. 88	---	2	---	1	2	SEE SIGN DETAILS
129	"	D1-61	54" X 24"	9. 00	---	2	---	1	2	SEE SIGN DETAILS
130	"	W14-3	---	---	---	---	---	---	---	
131	"	W4-2R	36" X 36"	---	9. 00	---	1	1	1	
132	"	W14-3	48" X 36"		6. 00	---	---	---	---	MOUNT TO BACK OF SIGN 131
133	"	W4-2R	36" X 36"	---	9. 00	---	1	---	---	
134	"	R4-1	24" X 30"	5. 00	---	---	---	---	---	MOUNT TO BACK OF SIGN 133
135	RIDGE RD	R1-1	30" X 30"	5. 18	---	1	---	1	1	
136	"	R1-1	30" X 30"	5. 18	---	1	---	1	1	
137	"	R1-1	30" X 30"	5. 18	---	1	---	1	1	
138	STH 23, E. OF RIDGE RD	D1-61	54" X 24"	9. 00	---	2	---	1	2	SEE SIGN DETAILS
139	"	R3-72	30" X 36"	7. 50	---	---	1	1	1	
140	"	W4-2R	36" X 36"	---	9. 00	---	1	1	1	
PAGE SUBTOTALS				176. 19	45. 50	31	6	25	33	

PROJECT NO: 1440-38-60

HWY: STH 23

COUNTY: SHEBOYGAN

MISCELLANEOUS QUANTITIES

SHEET:

E

FILE NAME : _____

PLOT DATE : _____

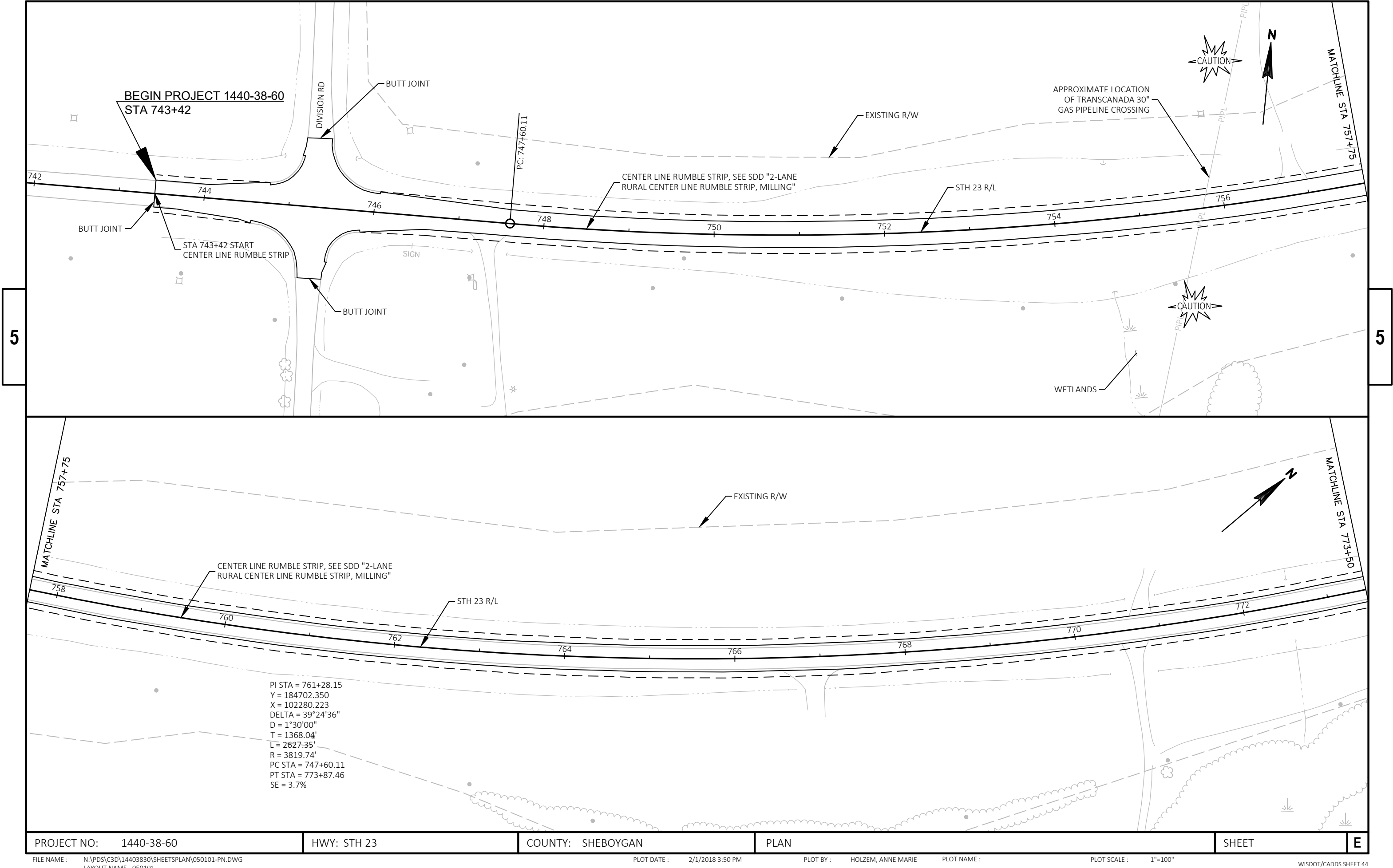
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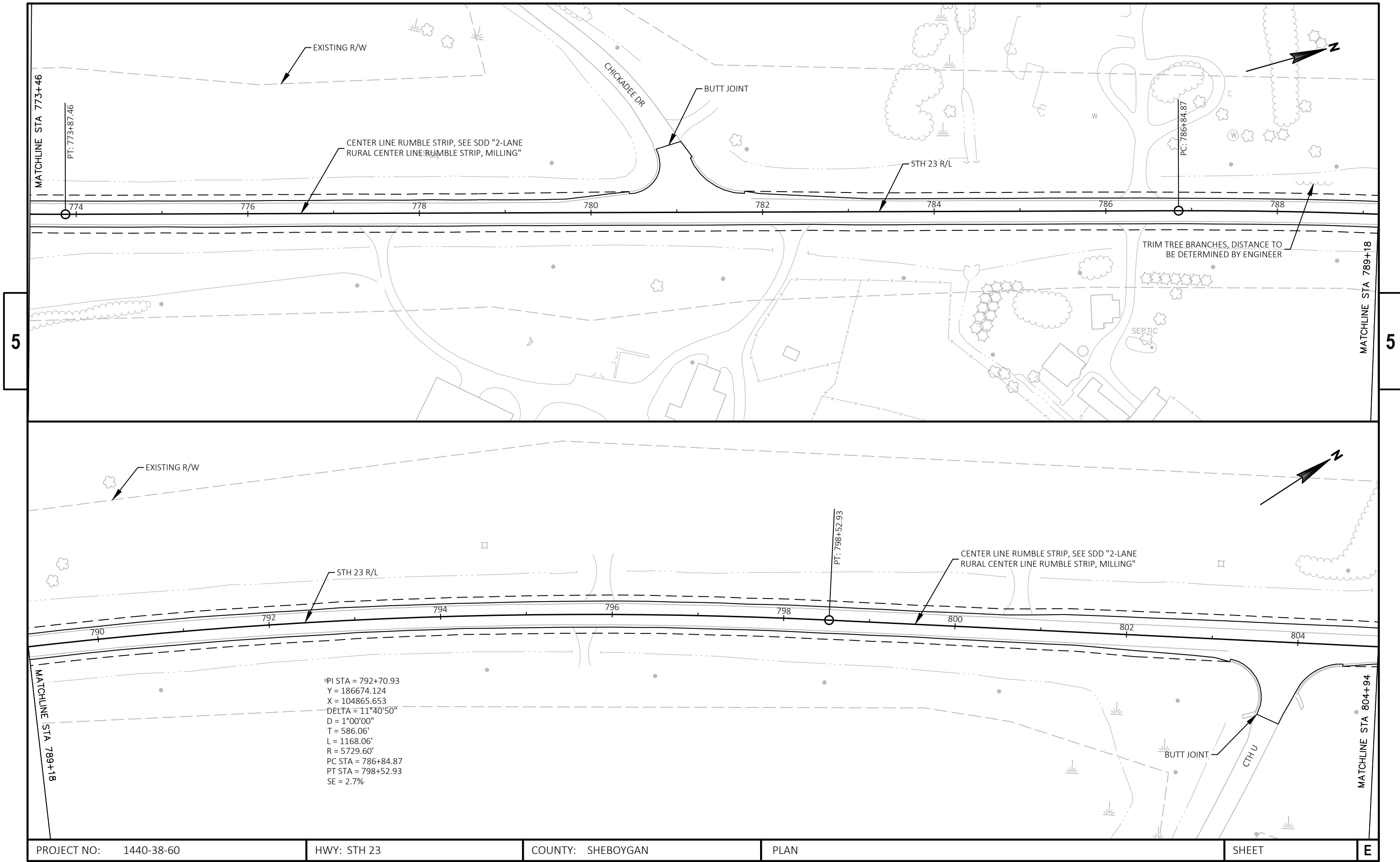
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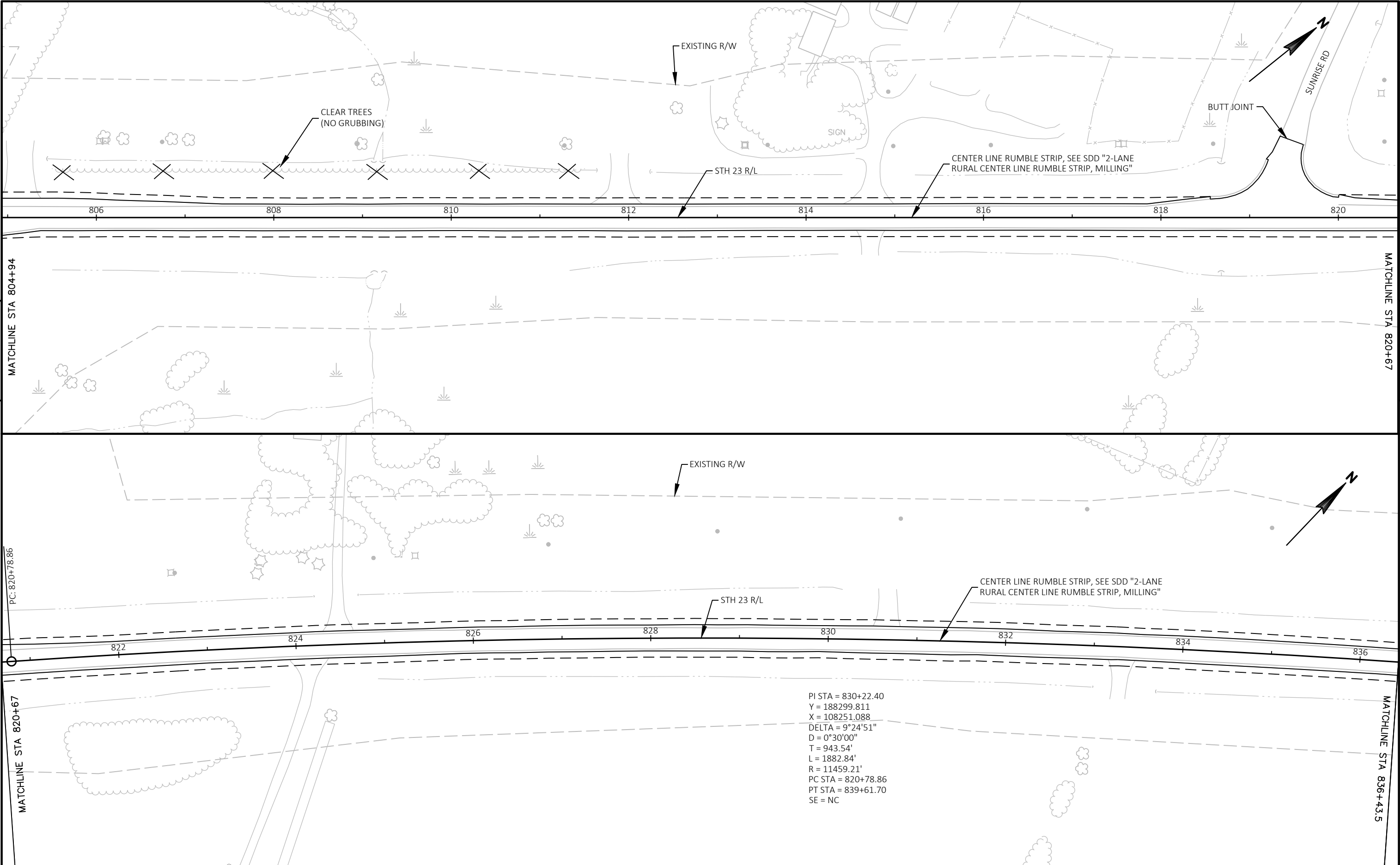
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ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637. 2210 SIGNS TYPE II REFLECTIVE TYPE H S. F.	637. 2230 SIGNS TYPE II REFLECTIVE TYPE F S. F.	634. 0614 POSTS WOOD 4x6x14 EACH	634. 0616 POSTS WOOD 4x6x16 EACH	638. 2602 REMOVING SIGNS TYPE II EACH	638. 3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
141	STH 23, E. OF RIDGE RD	W4-2R	36" X 36"	---	9.00	---	1	---	---	
142	"	J1-2	---	---	---	---	---	1	1	
143	"	J1-2	48" X 39"	13.00	---	---	1	---	---	SEE PLAN SHEET, PLATE MR1-99
144	"	W9-1R	30" X 30"	---	6.25	1	---	---	---	
145	"	I55-56	30" X 36"	7.50	---	---	1	---	---	IN MEMORY OF KEN AND EVIE ENGENBERGER, SEE PLAN SHEET
146	"	R3-72	30" X 36"	7.50	---	---	1	1	1	
147	VACANT	---	---	---	---	---	---	---	---	
148	"	J4-1	24" X 36"	6.00	---	---	1	---	---	SEE PLAN SHEET
149	"	I55-56	---	---	---	---	---	1	1	
150	"	J13-2	48" X 45"	15.00	---	---	1	1	1	SEE PLAN SHEET, PLATE MR1-99
151	CTH S	J13-1	24" X 45"	7.50	---	---	1	1	1	SEE PLAN SHEET
152	"	R1-1	36" X 36"	7.46	---	---	1	1	1	
153	"	R1-1	36" X 36"	7.46	---	---	1	1	1	
154	"	R1-1	36" X 36"	7.46	---	---	1	1	1	
155	"	R1-1	36" X 36"	7.46	---	---	1	1	1	
156	"	J13-2	48" X 45"	15.00	---	---	1	1	1	SEE PLAN SHEET, PLATE MR1-99
157	STH 23, E. OF CTH S	J13-2	48" X 45"	15.00	---	---	1	1	1	SEE PLAN SHEET, PLATE MR1-99
158	"	J4-1	24" X 36"	6.00	---	---	1	---	---	SEE PLAN SHEET
159	"	J4-1	---	---	---	---	---	1	1	
160	VACANT	---	---	---	---	---	---	---	---	
161	"	I55-56	---	---	---	---	---	1	1	
162	"	I55-56	30" X 36"	7.50	---	---	1	---	---	WILDERNESS LOG HOMES, SEE PLAN SHEET
163	"	R3-72	30" X 36"	7.50	---	---	1	1	1	
164	"	J1-2	48" X 39"	13.00	---	---	1	1	1	SEE PLAN SHEET, PLATE MR1-99
165	COARY LN	R1-1	30" X 30"	5.18	---	1	---	1	1	
166	STH 23, E. OF COARY LN	W6-1	36" X 36"	---	9.00	---	1	1	1	
167	"	R4-3	24" X 30"	5.00	---	1	---	1	1	
168	TWINKLE LN	R1-1	30" X 30"	5.18	---	1	---	1	1	
169	STH 23, E. OF TWINKLE LN	W6-3	---	---	---	---	---	1	1	
170	"	R2-1	24" X 30"	5.00	---	1	---	1	1	55 MPH
171	"	W14-3	48" X 36"		6.00	---	1	1	1	
PAGE SUBTOTALS				170.70	30.25	5	19	22	22	
PROJECT TOTALS				1081.66	142.00	91	84	125	155	







PROJECT NO: 1440-38-60

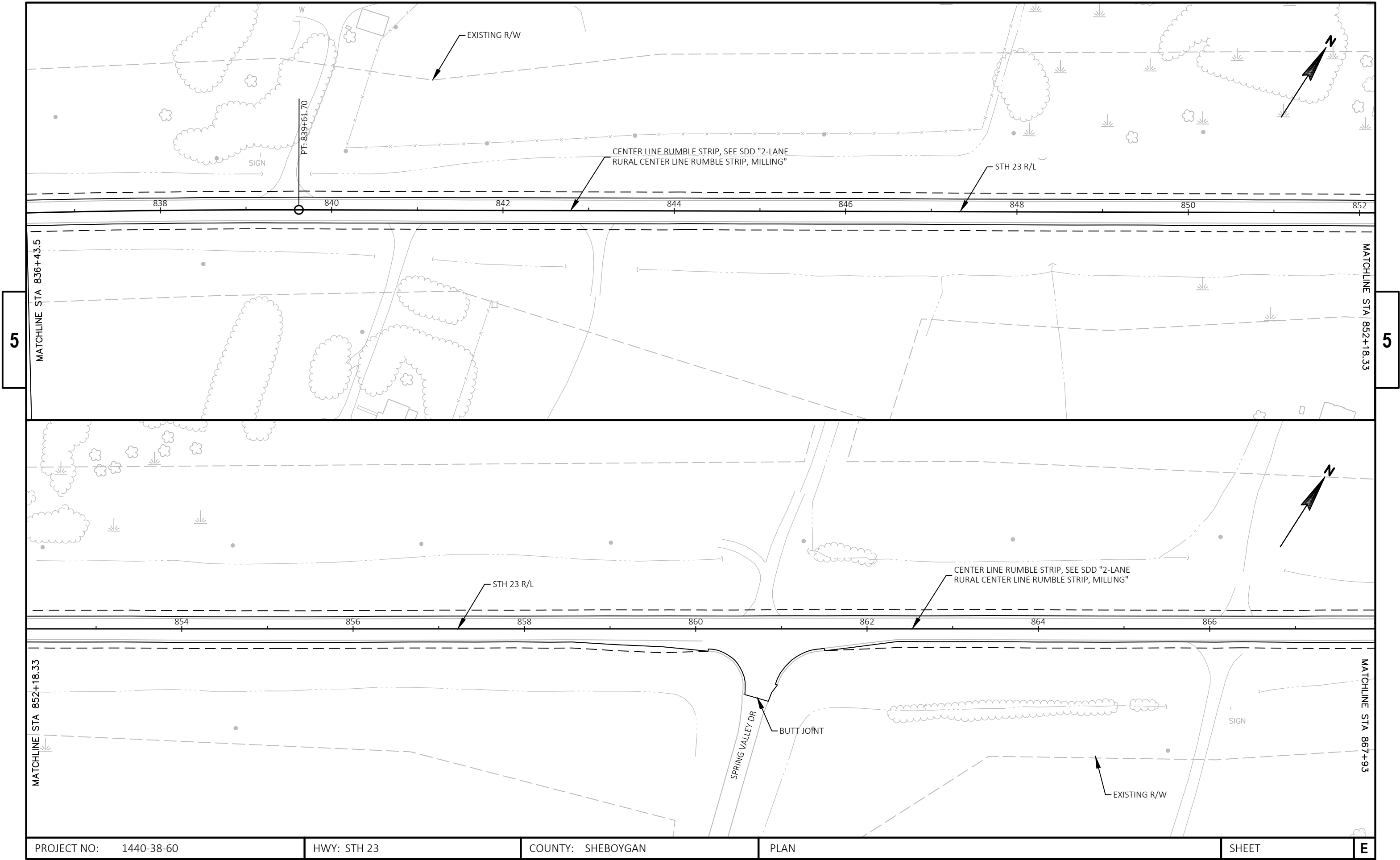
HWY: STH 23

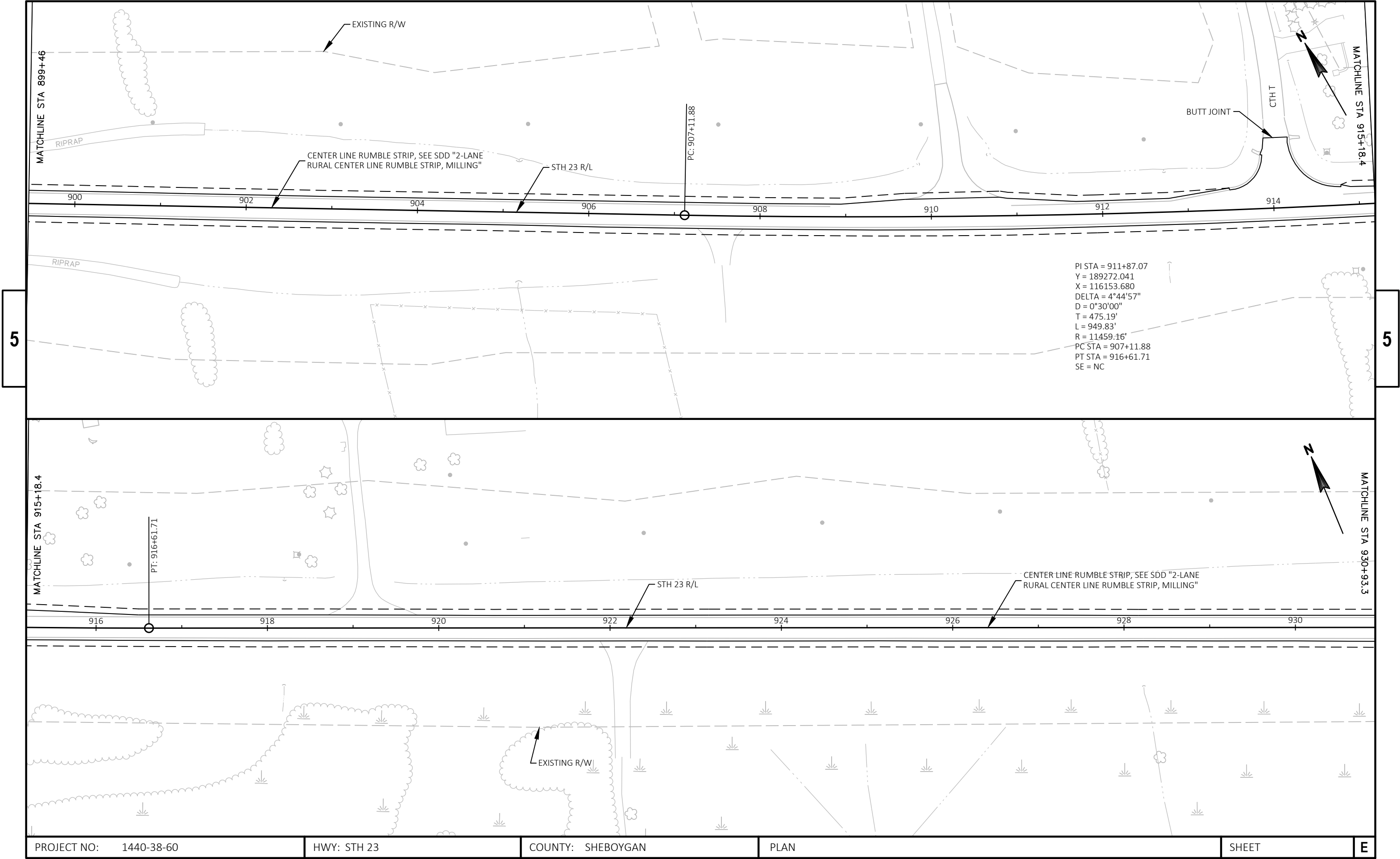
COUNTY: SHEBOYGAN

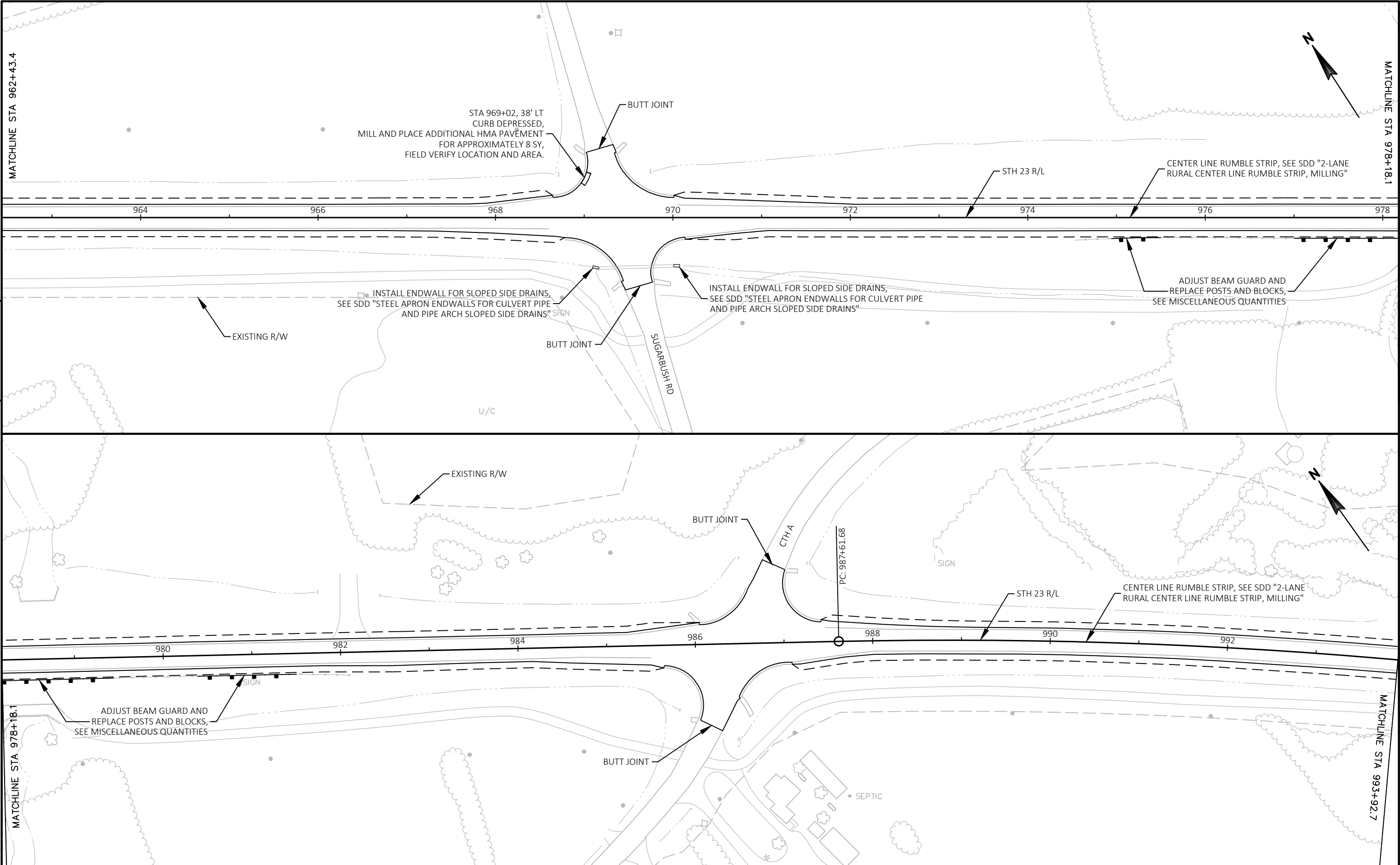
PLAN

SHEET

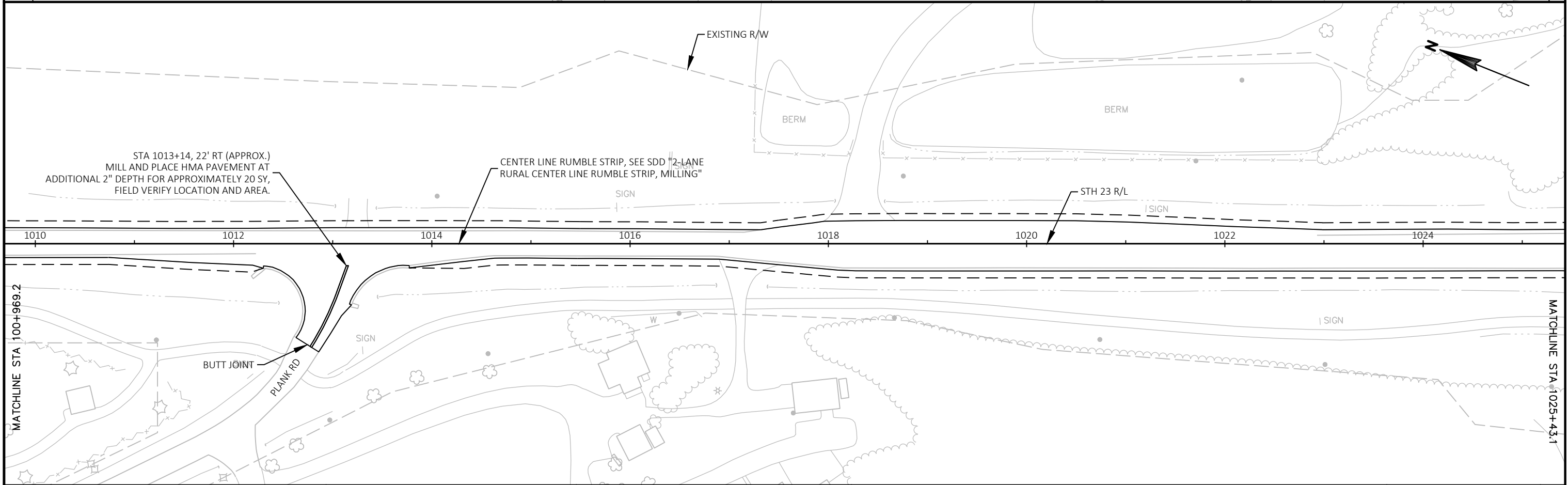
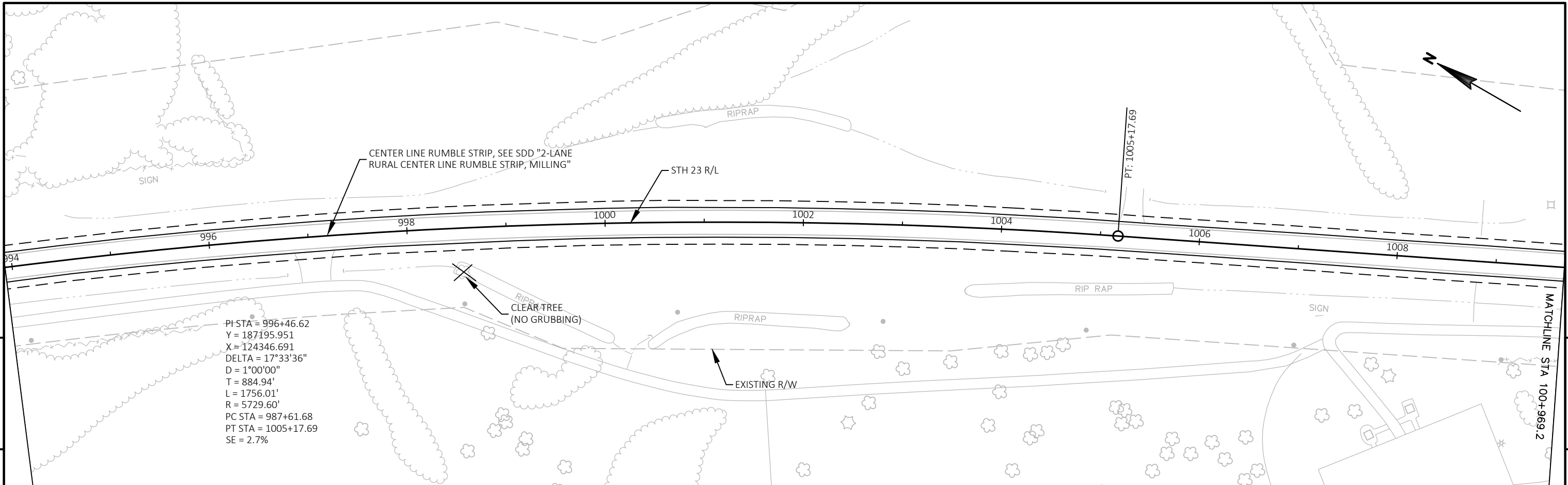
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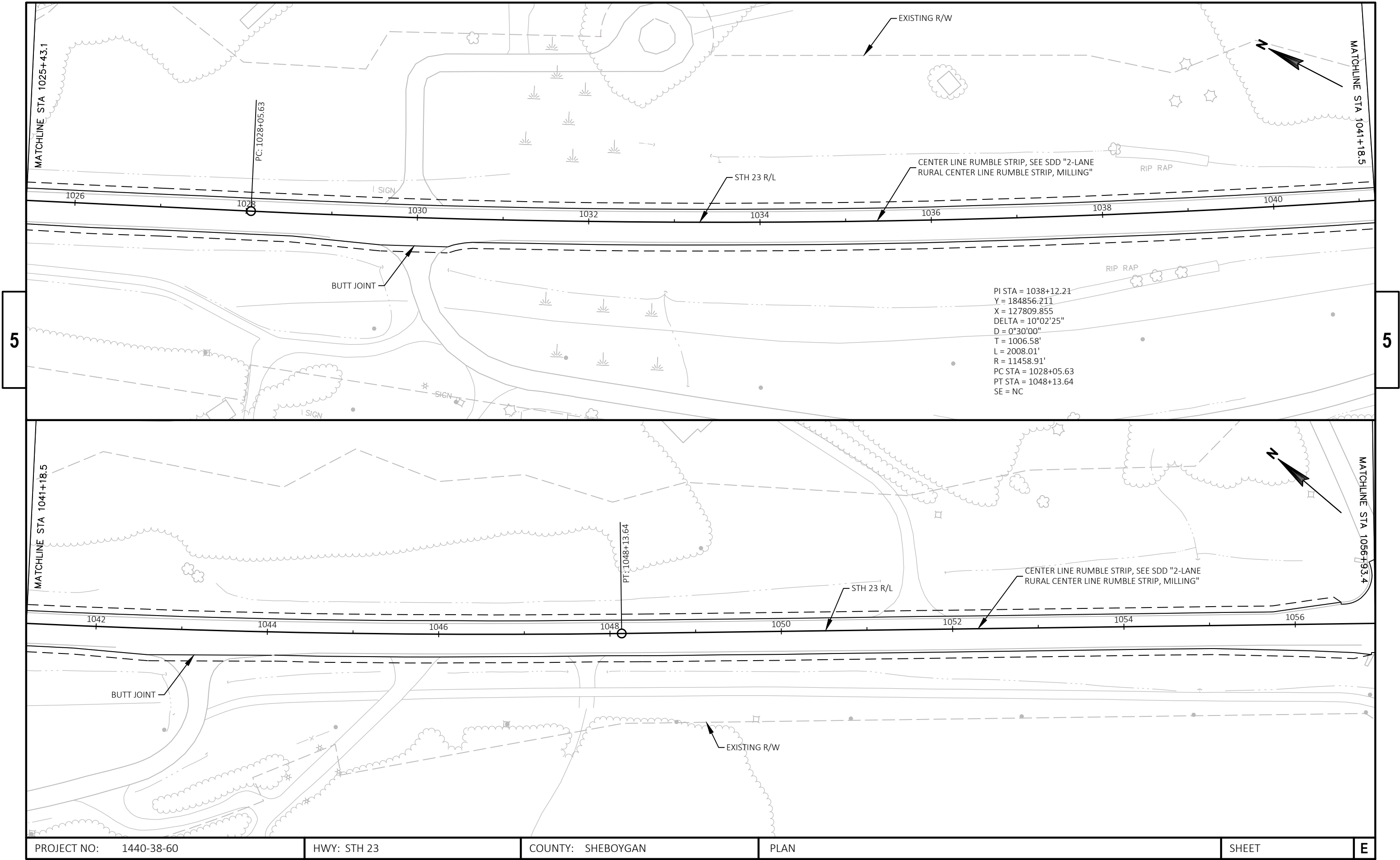


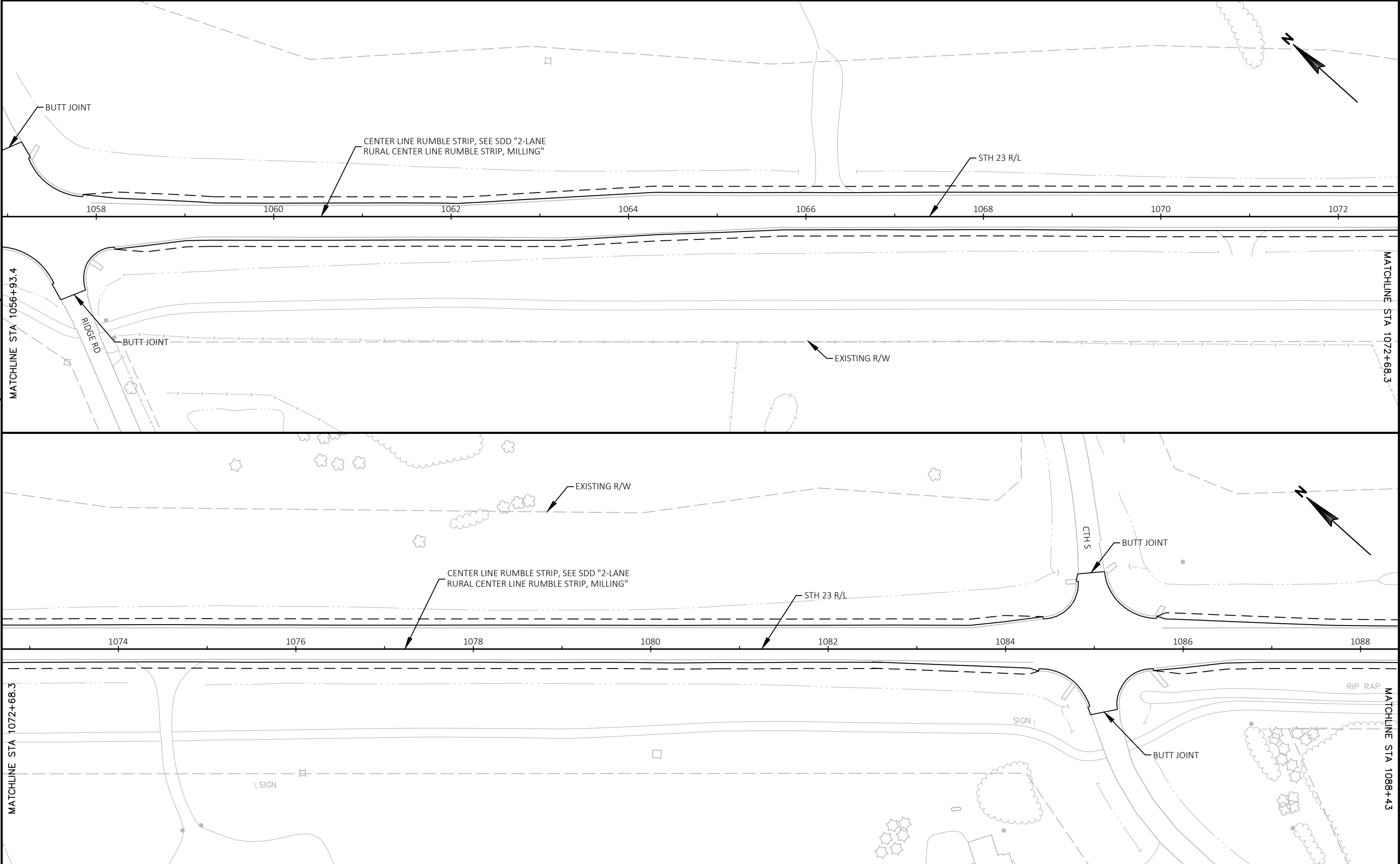


PROJECT NO: 1440-38-60	HWY: STH 23	COUNTY: SHEBOYGAN	PLAN	SHEET	E
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PROJECT NO: 1440-38-60	HWY: STH 23	COUNTY: SHEBOYGAN	PLAN	SHEET	E
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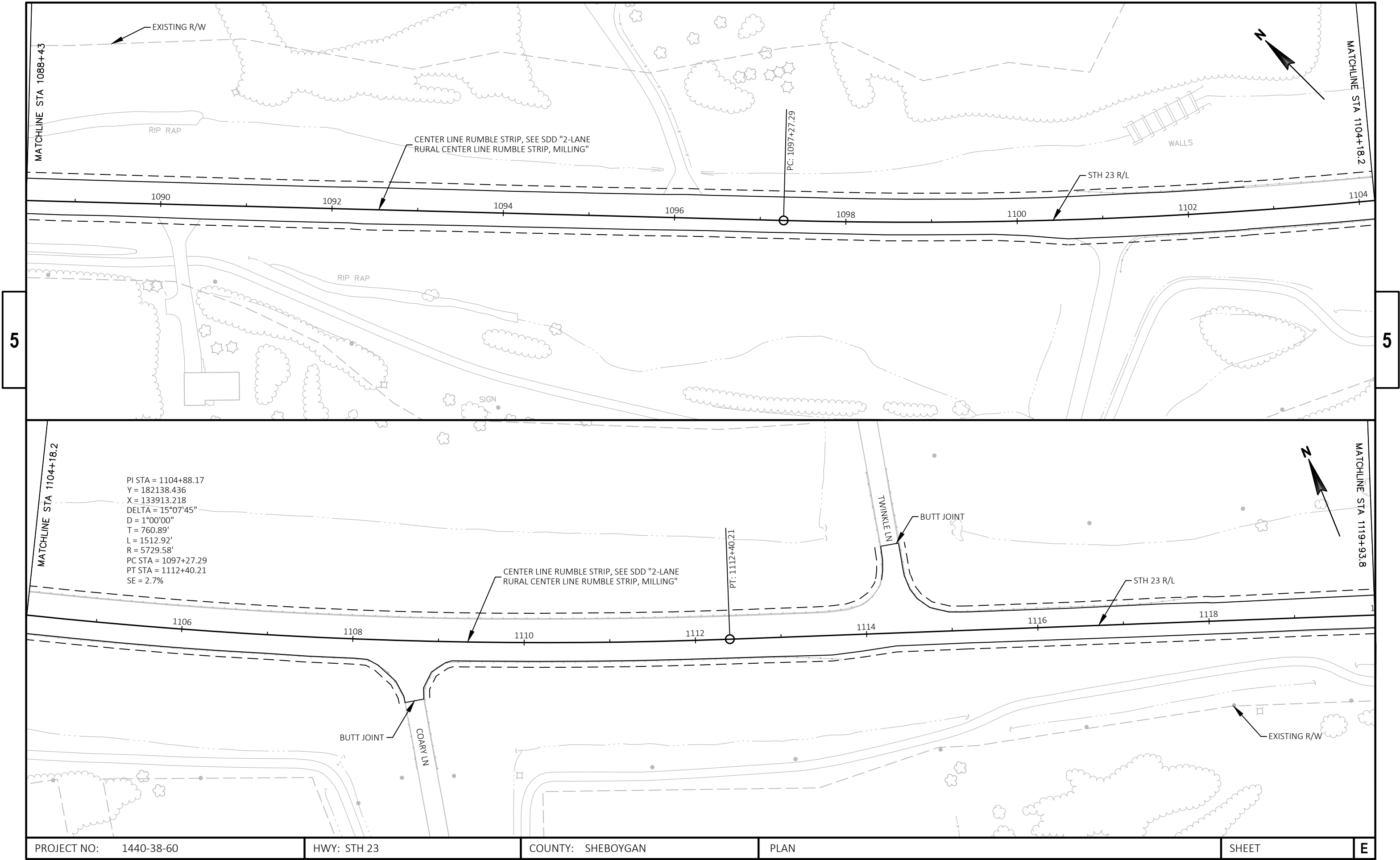


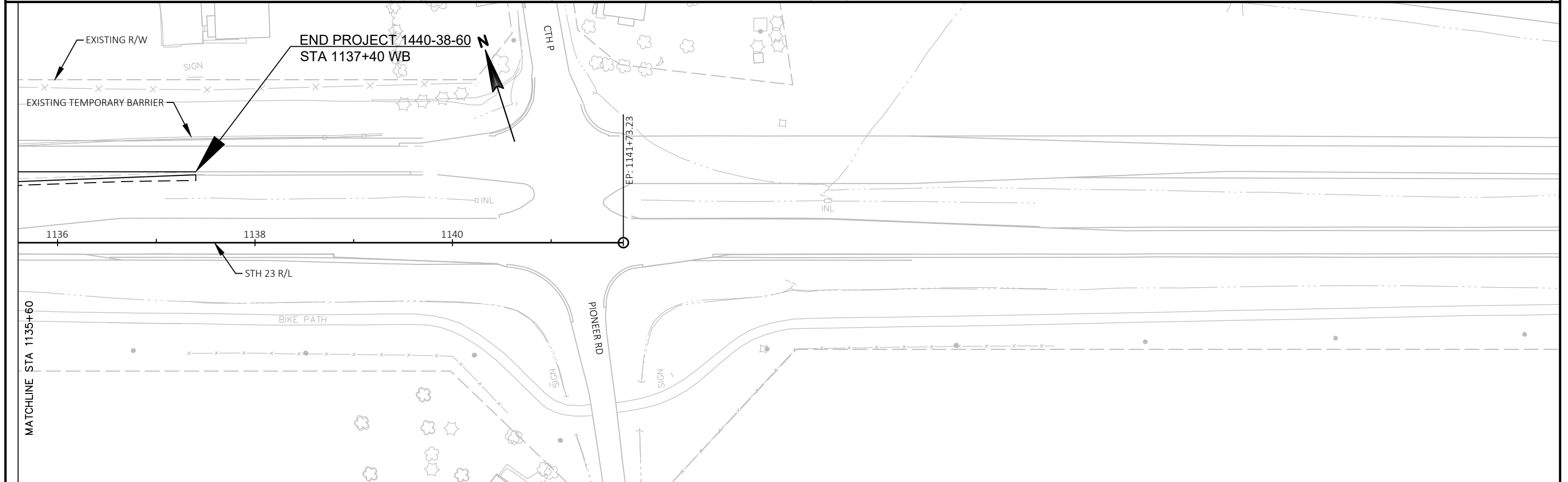
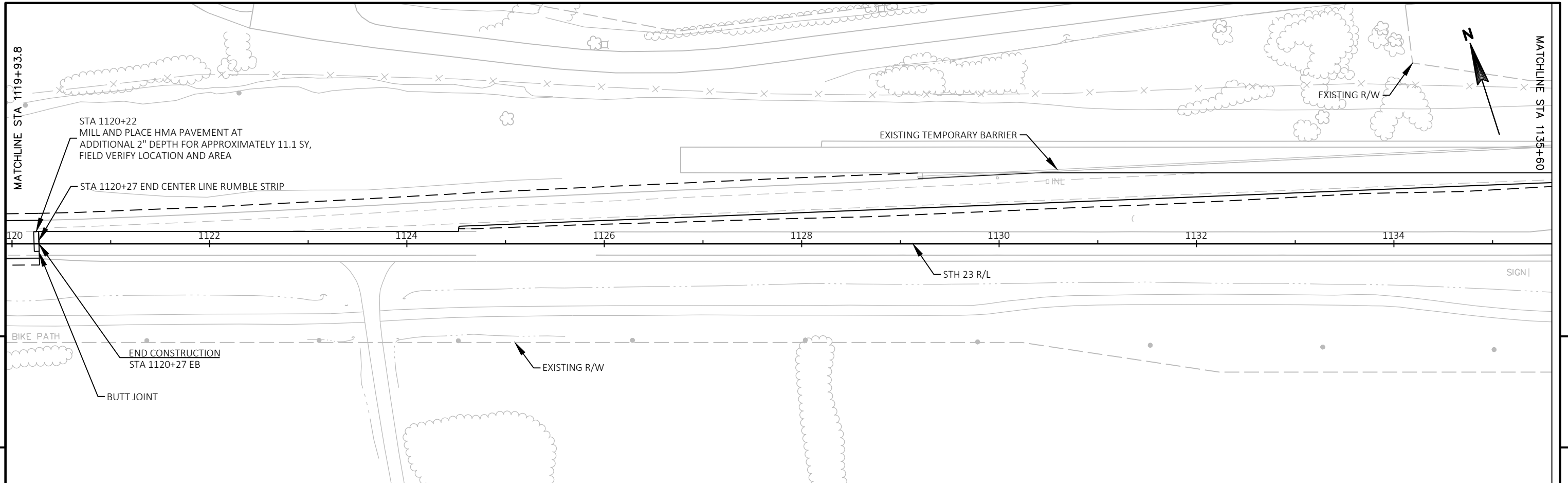


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5

PROJECT NO: 1440-38-60	HWY: STH 23	COUNTY: SHEBOYGAN	PLAN	SHEET	E
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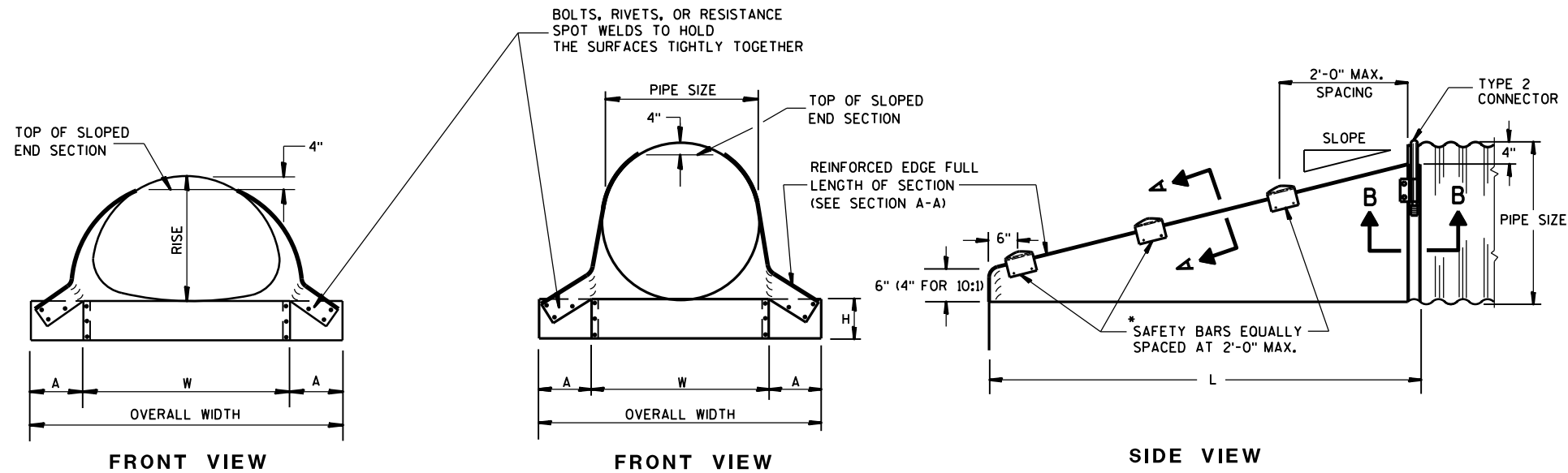




PROJECT NO: 1440-38-60	HWY: STH 23	COUNTY: SHEBOYGAN	PLAN	SHEET	E
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Standard Detail Drawing List

08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B15-10A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-10B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-10C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B29-01	SAFETY EDGE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A04-03B	DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15C04-04	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M. P. H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C21-08	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C35-02A	PAVEMENT MARKING (INTERSECTIONS)
15C35-02B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-02C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



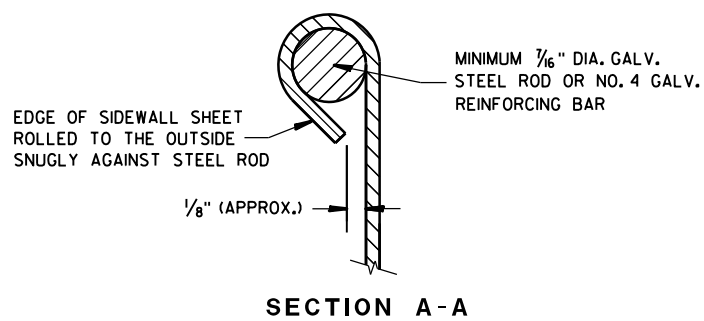
GENERAL NOTES

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

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

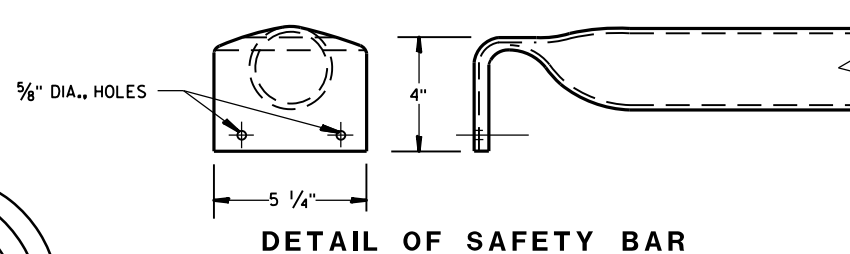
SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS											
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	—	—
48	.109	16	12	54	86	4:1	152	6:1	228	—	—
54	.109	16	12	60	92	4:1	176	6:1	264	—	—
60	.109	16	12	66	98	4:1	200	6:1	300	—	—



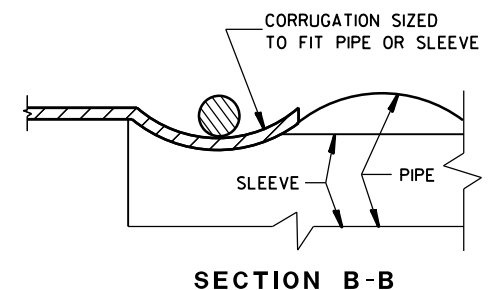
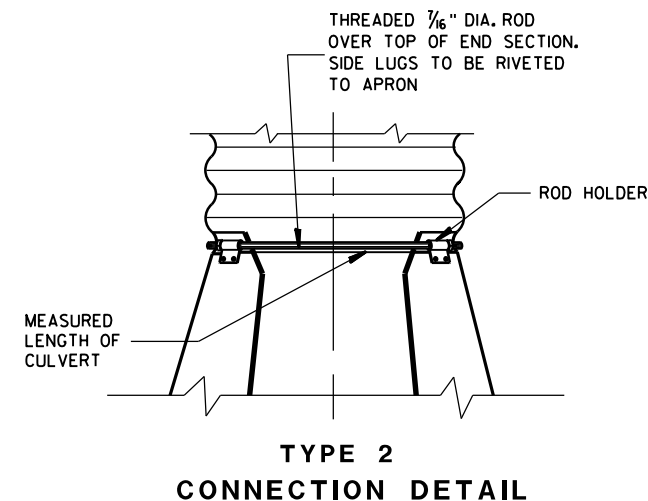
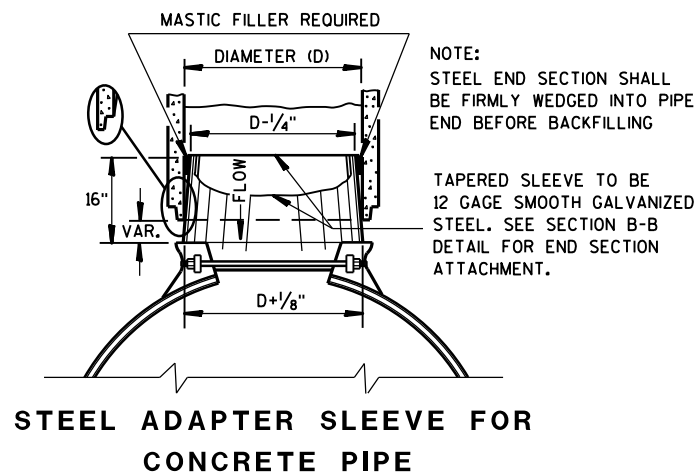
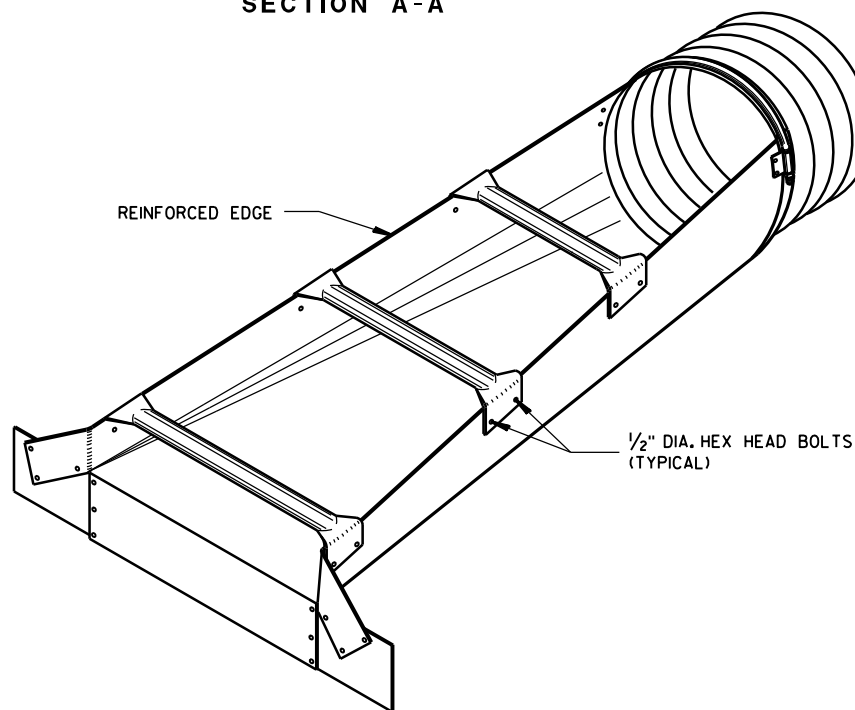
*NOTE:
THREE SAFETY BARS ARE SHOWN.
ACTUAL NUMBER OF BARS REQUIRED AT
A 2'-0" C-C MAX. SPACING WILL VARY
DEPENDING ON THE LENGTH OF THE
END SECTION.

3" GALVANIZED PIPE, FLATTEN
ENDS, THEN BEND OUTSIDE 4"
TO MATCH END SECTION SIDES.



STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS											
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches) ①	DIMENSIONS (Inches)				L DIMENSIONS			
	SPAN	RISE		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114
42	49	33	.109	16	12	55	87	4:1	92	6:1	138
48	57	38	.109	16	12	63	95	4:1	112	6:1	168
54	64	43	.109	16	12	70	102	4:1	132	6:1	198

① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA

GENERAL NOTES

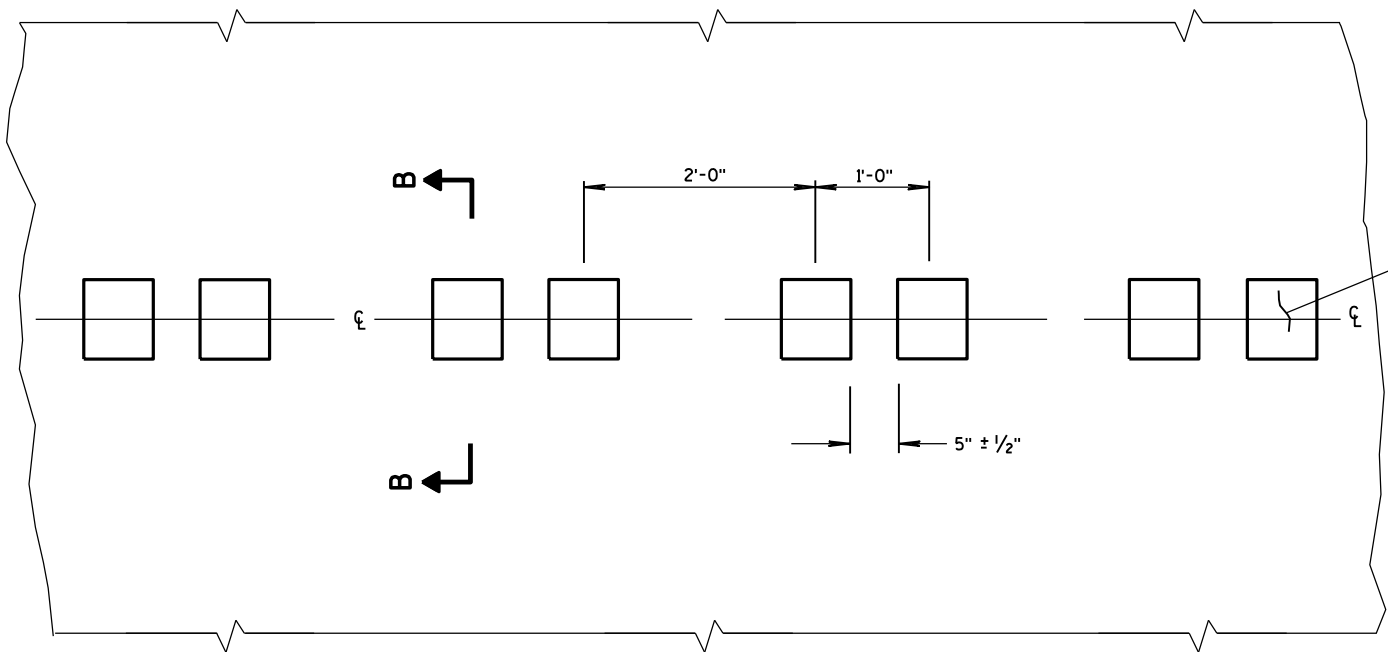
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

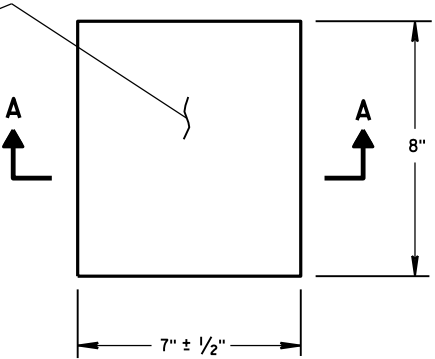
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

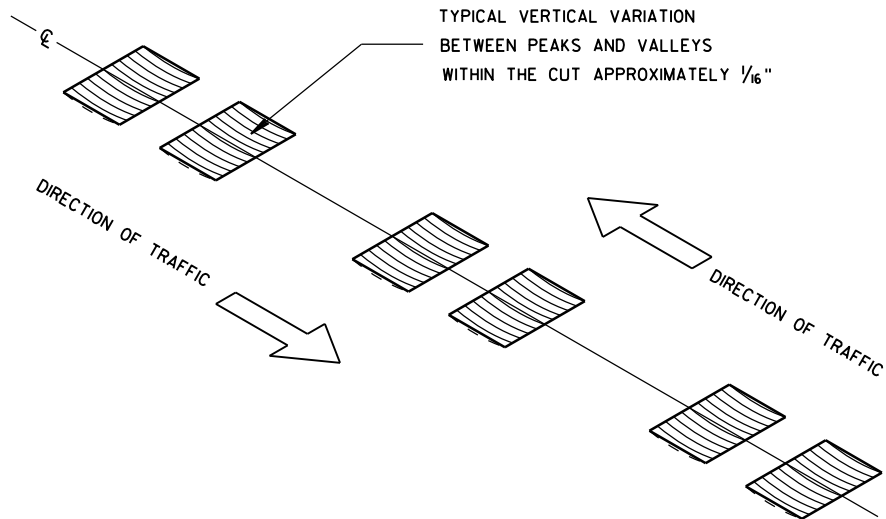
- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



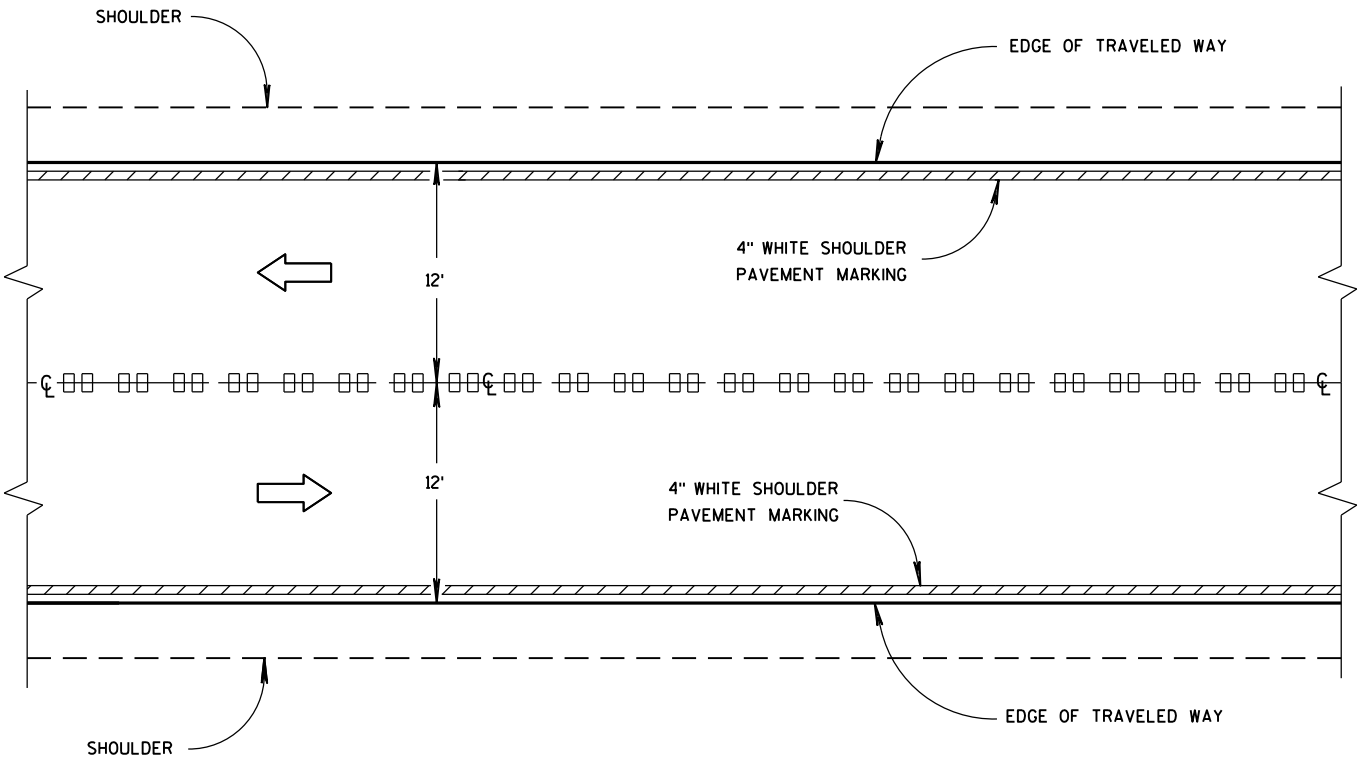
PLAN VIEW
CENTER LINE WITH GROOVES



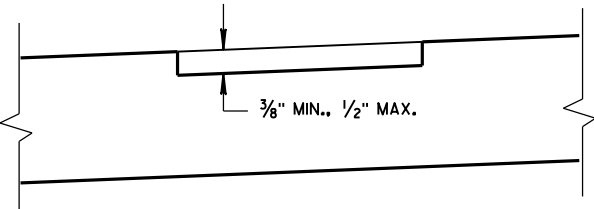
PLAN VIEW
(SINGLE GROOVE)



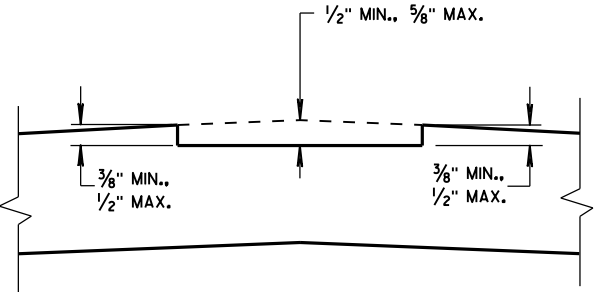
ISOMETRIC



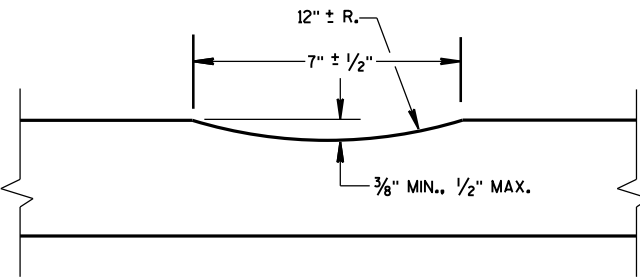
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



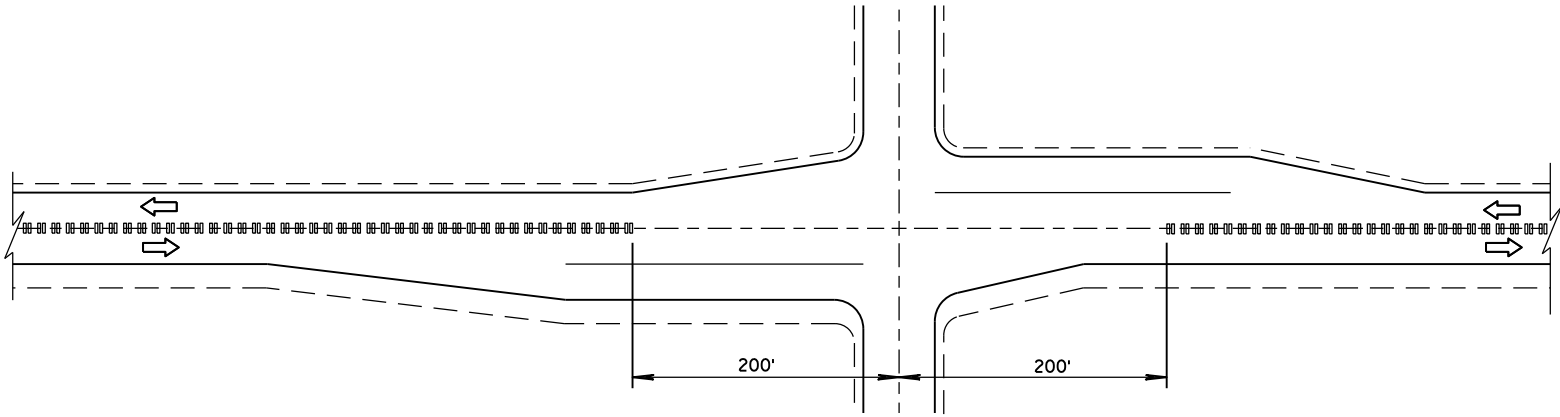
SECTION B-B
CROWNED ROADWAY



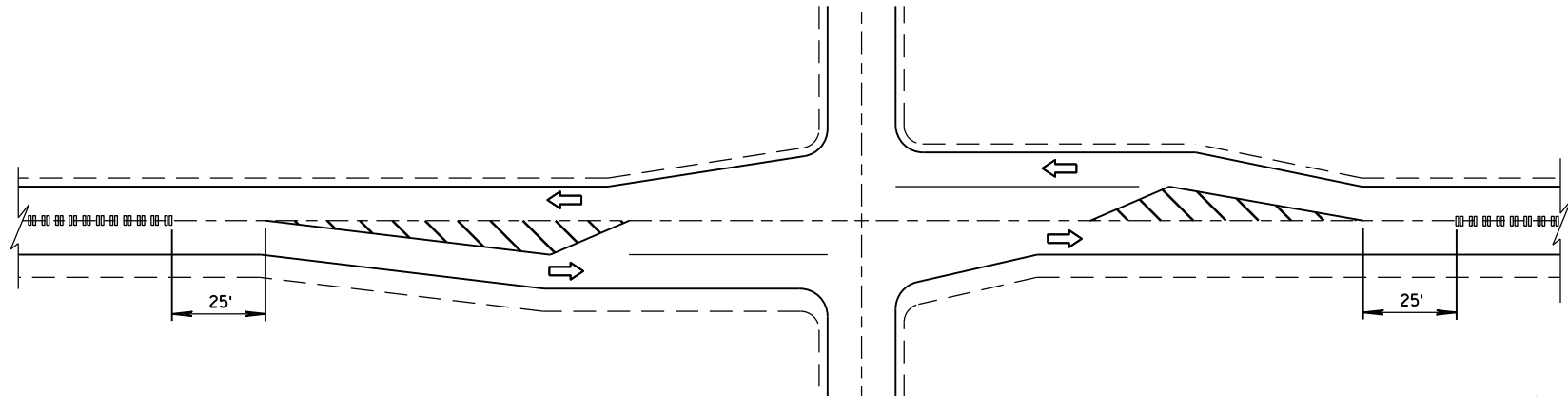
SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

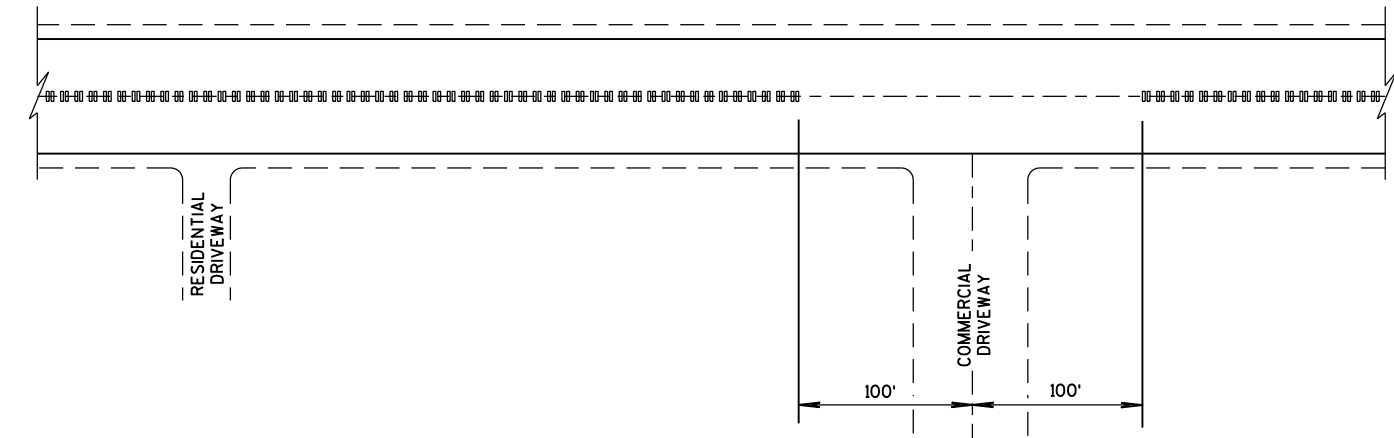
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTER LINE GROOVES AT INTERSECTIONS

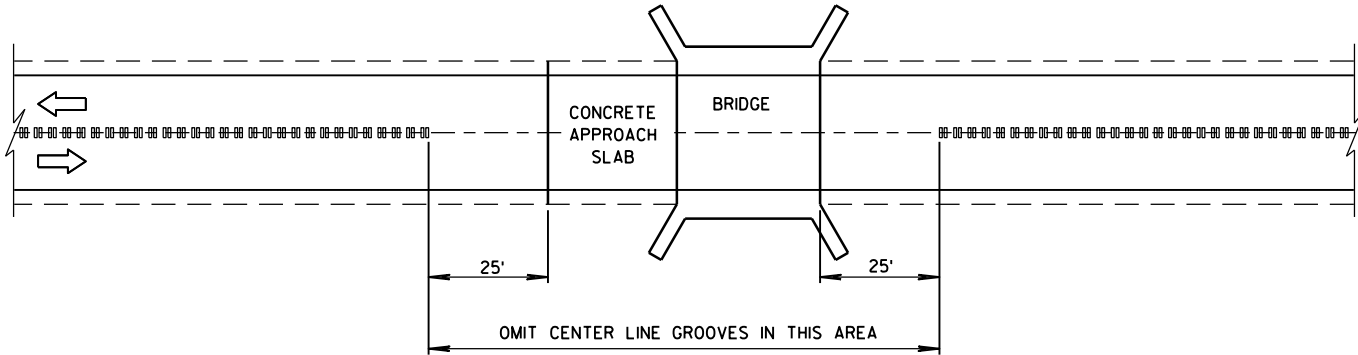


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

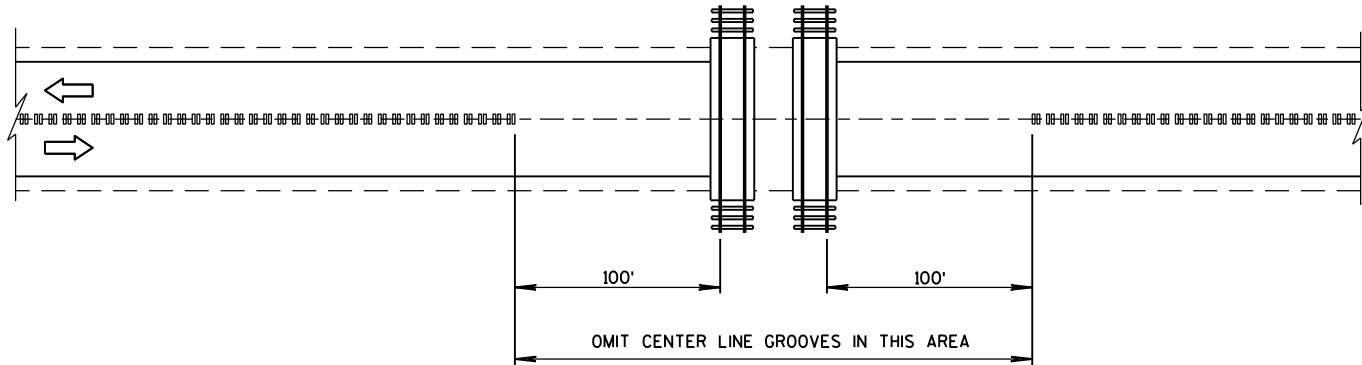


CENTER LINE GROOVES AT DRIVEWAYS^①

^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

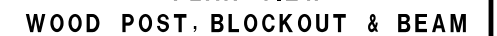
2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/15/2013 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	

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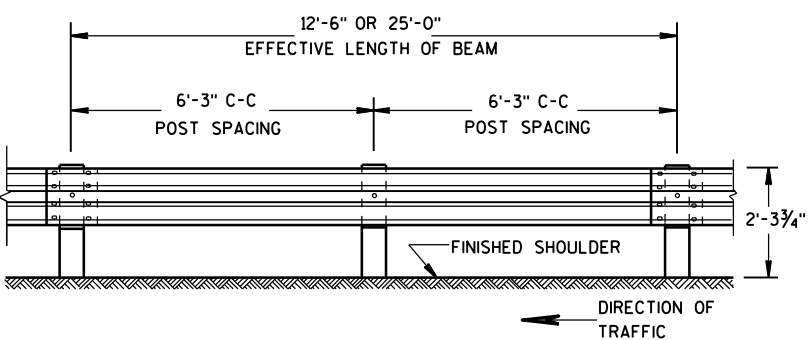
- S.D.D. 14 B 15-10a



TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

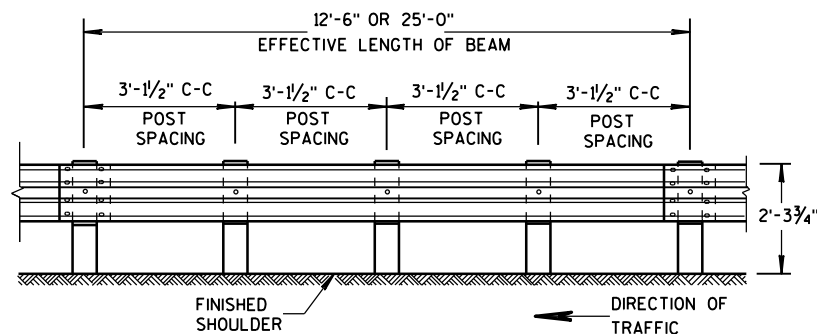


STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



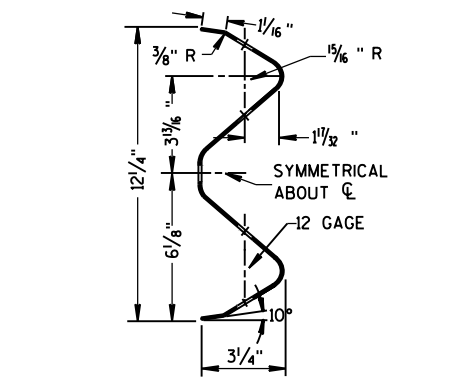
FRONT VIEW

POST SPACING STANDARD INSTALLATION

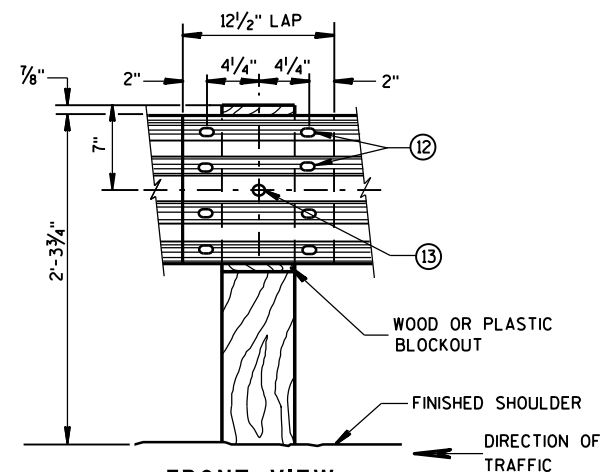


FRONT VIEW

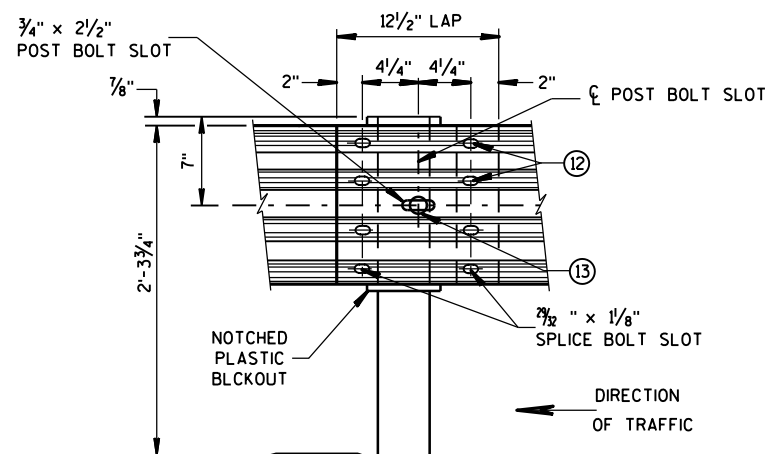
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



SECTION THRU W BEAM



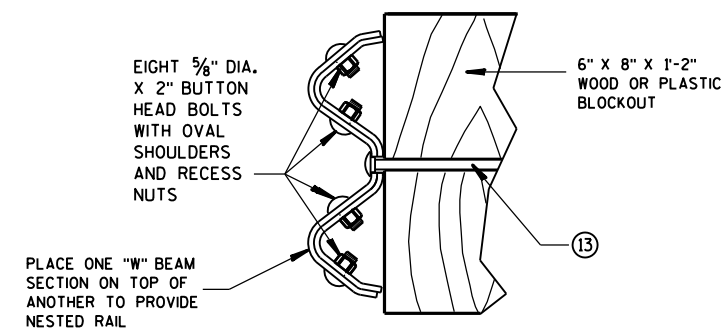
FRONT VIEW
BEAM SPLICE AT WOOD POST
AND POST MOUNTING DETAIL



FRONT VIEW
BEAM SPLICE AT STEEL POST
TYPICAL SPLICING DETAILS
OF STEEL PLATE BEAM GUARD

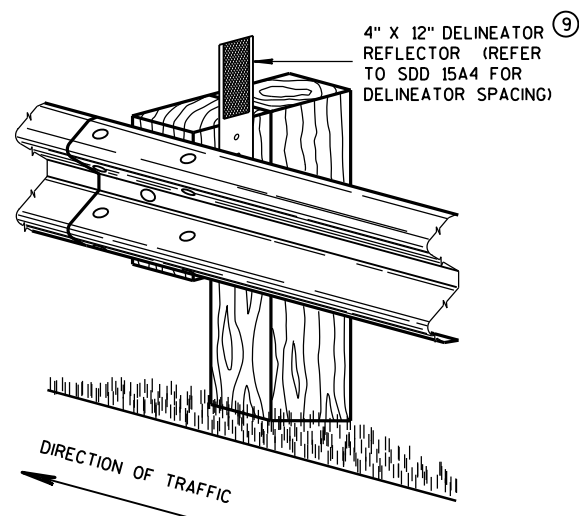
GENERAL NOTES

- ⑨ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- ⑫ 8 - 5/8" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- ⑬ 5/8" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH 5/8" DIA. F844 FLAT WASHER UNDER NUT.



NESTED W BEAM (NW)

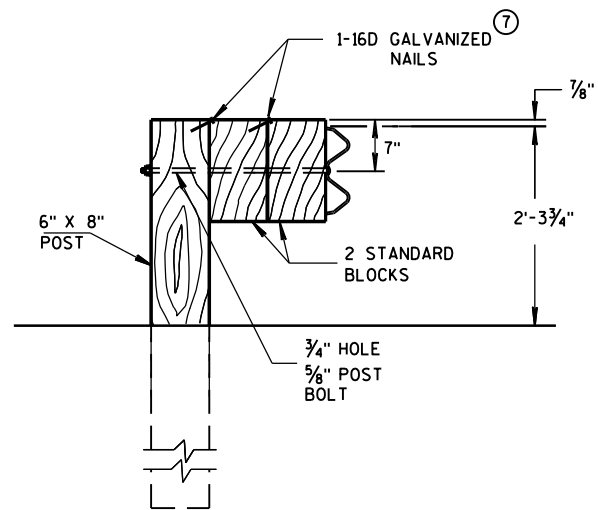
USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

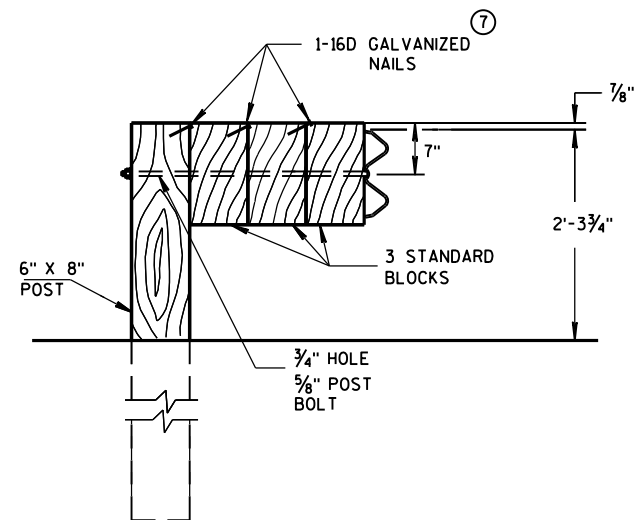
STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS
WITHIN A BARRIER RUN IS UNLIMITED

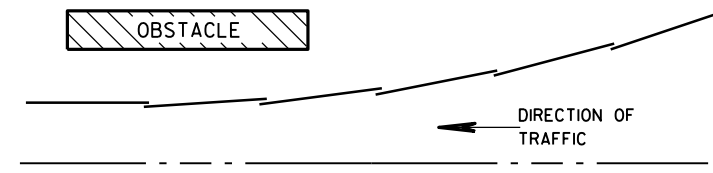


DETAIL FOR TRIPLE BLOCKS

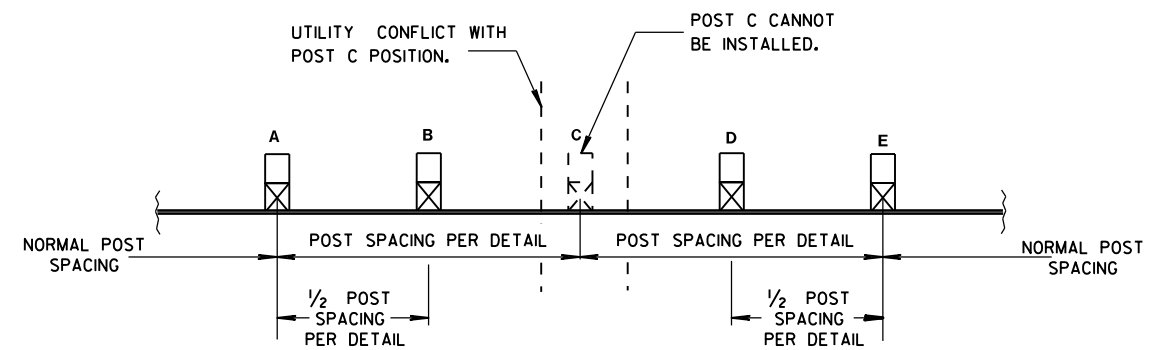
TRIPLE BLOCK DETAIL IS LIMITED TO ONE
LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES
PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND
SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION
DISTANCE OF THE BARRIER.



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTS

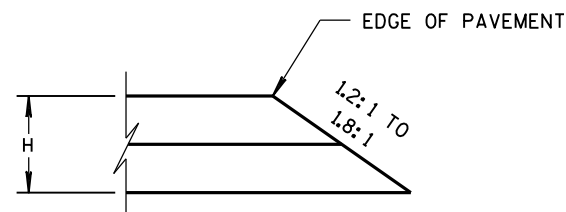
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017

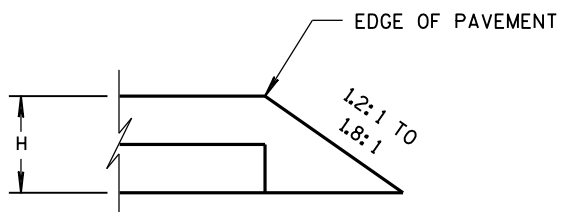
DATE

FHWA

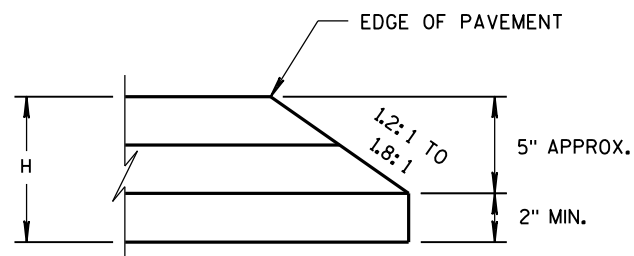
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR



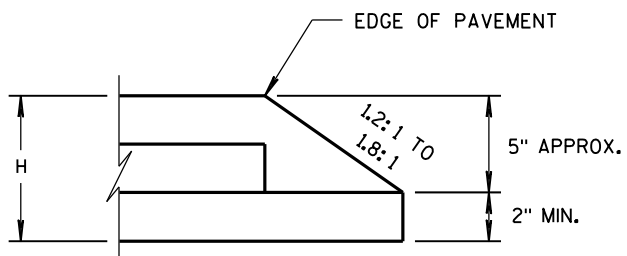
CONSTRUCTED WITH FINAL TWO LAYERS
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER
FOR H 5" OR LESS

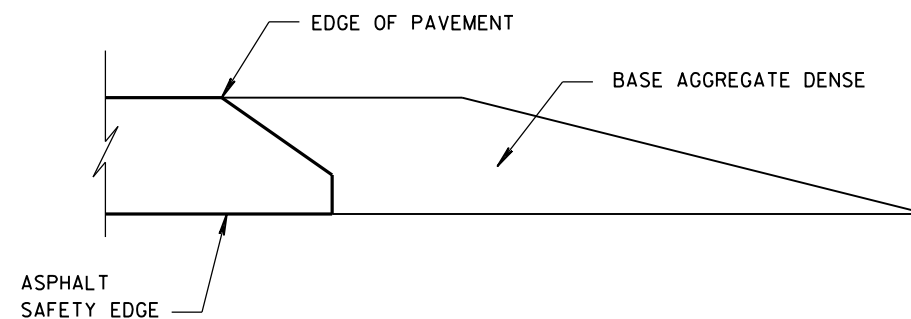


CONSTRUCTED WITH FINAL TWO LAYERS
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER
FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



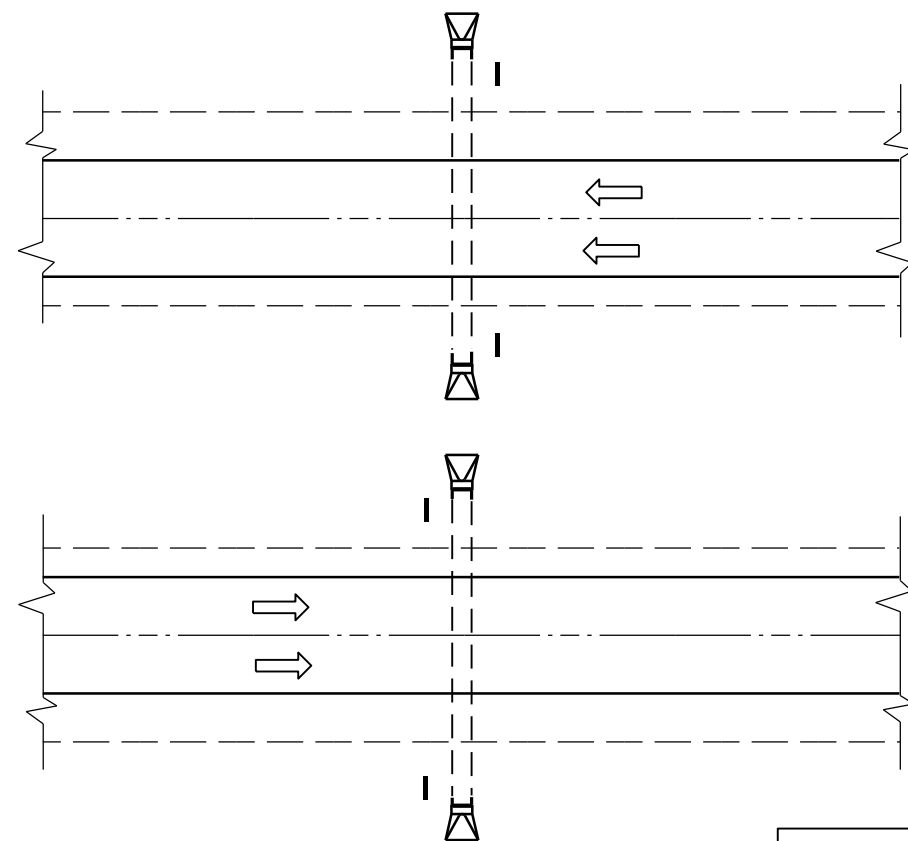
FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE_{SM}

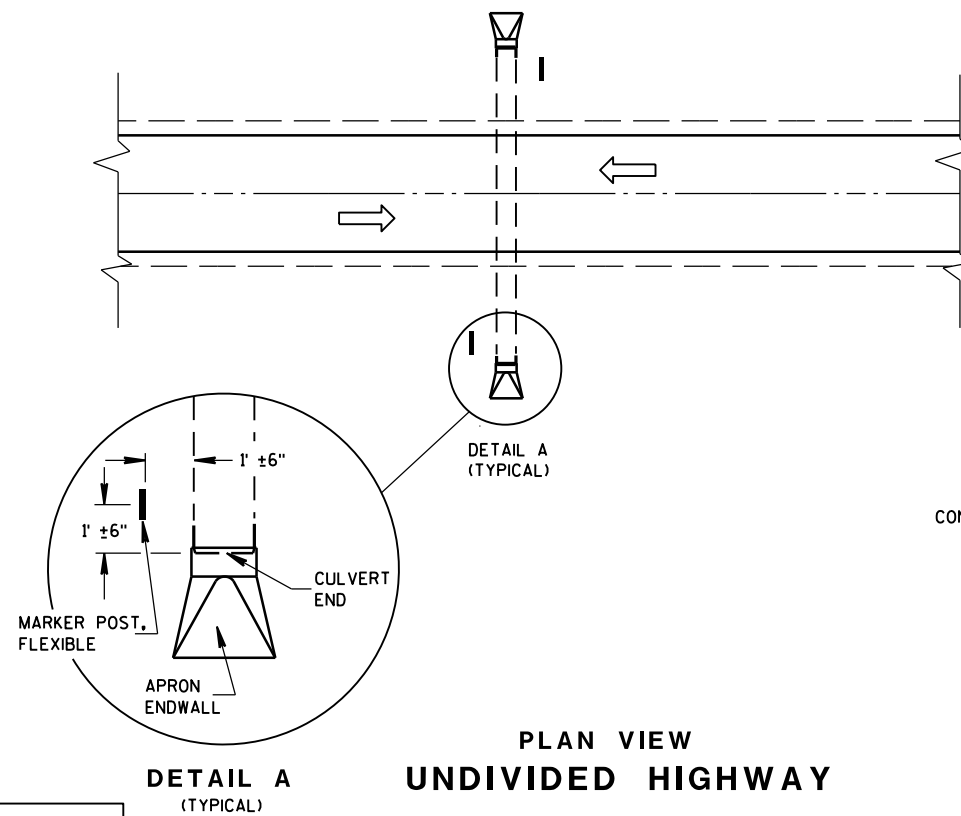
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/2012
DATE
FHWA

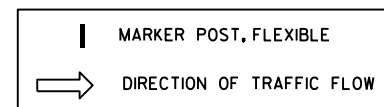
/s/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER



PLAN VIEW
DIVIDED HIGHWAY



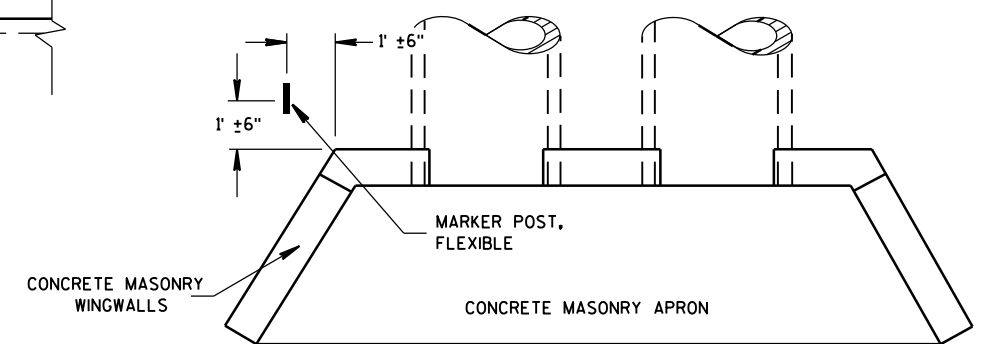
PLAN VIEW
UNDIVIDED HIGHWAY



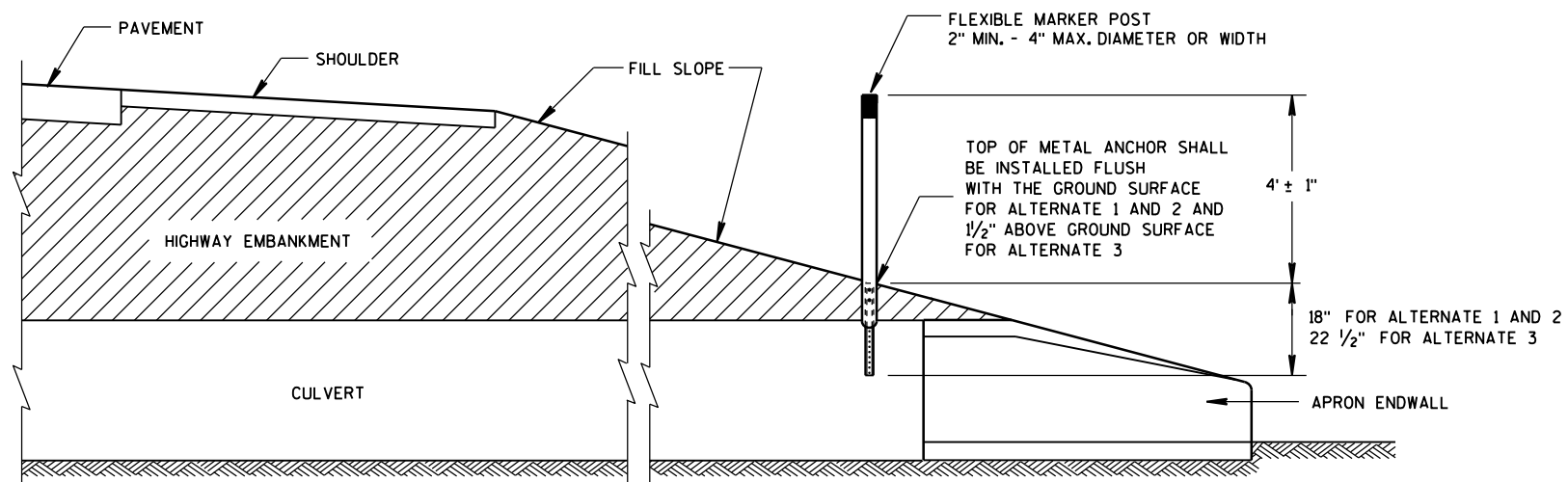
FLEXIBLE MARKER POST LOCATION

GENERAL NOTES

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



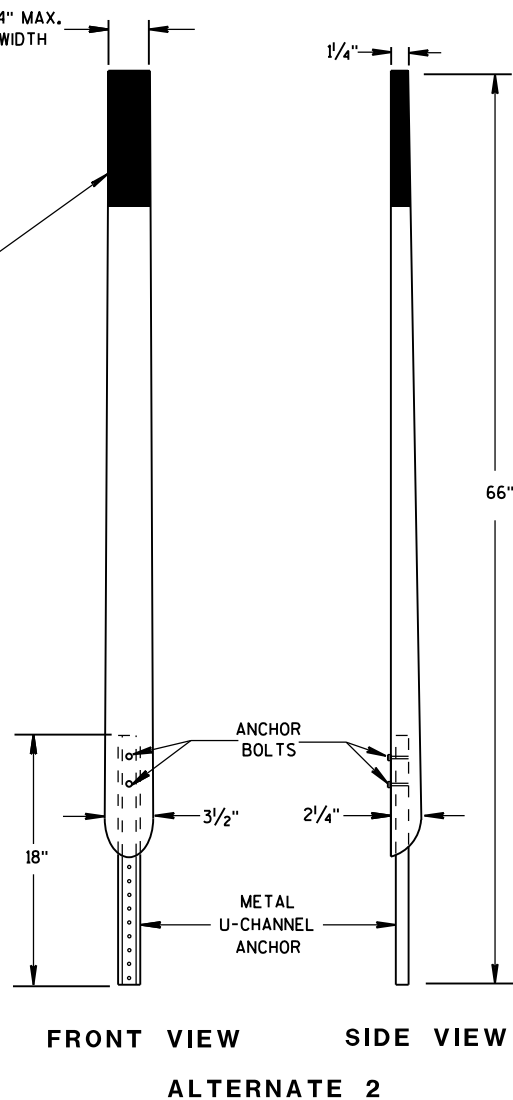
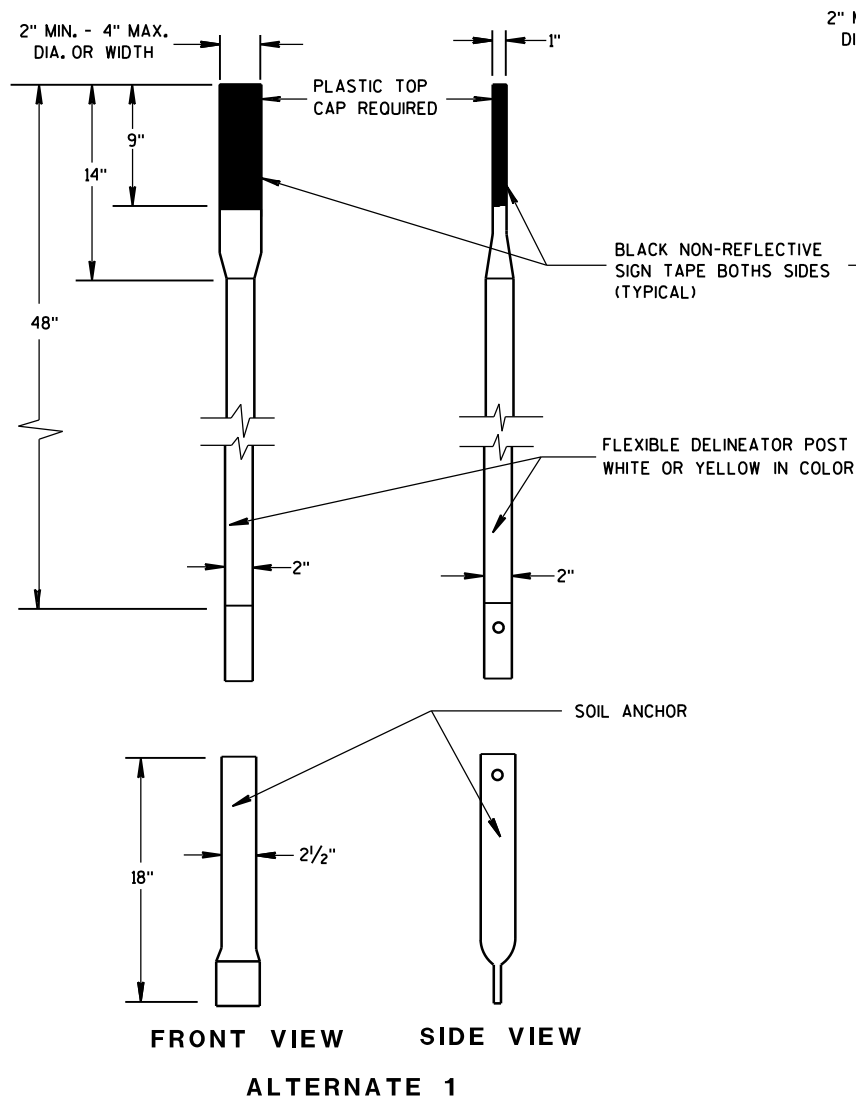
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



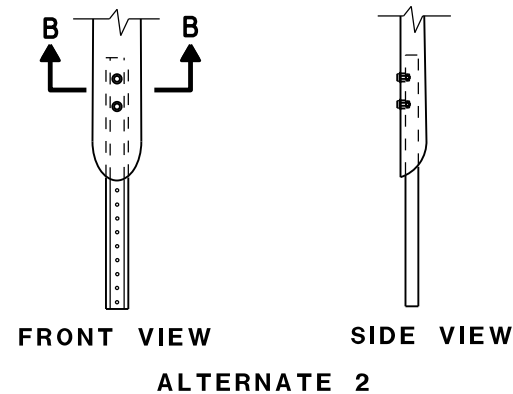
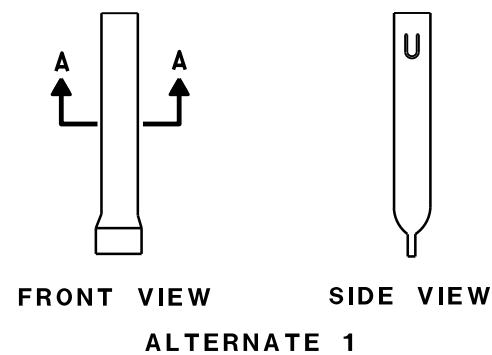
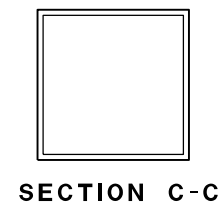
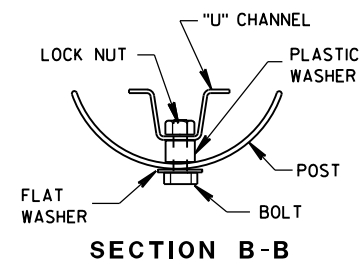
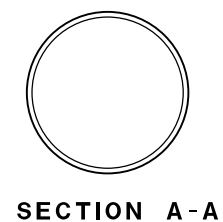
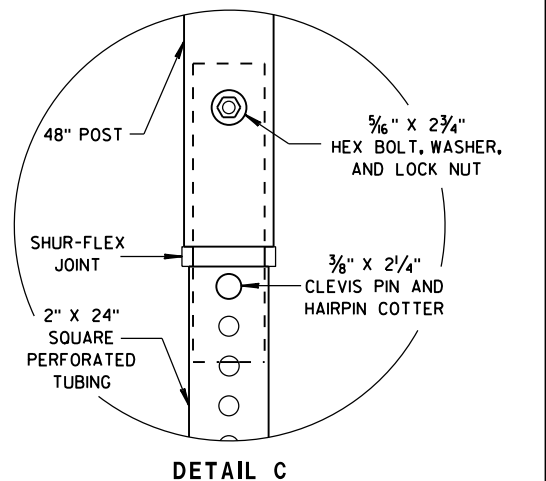
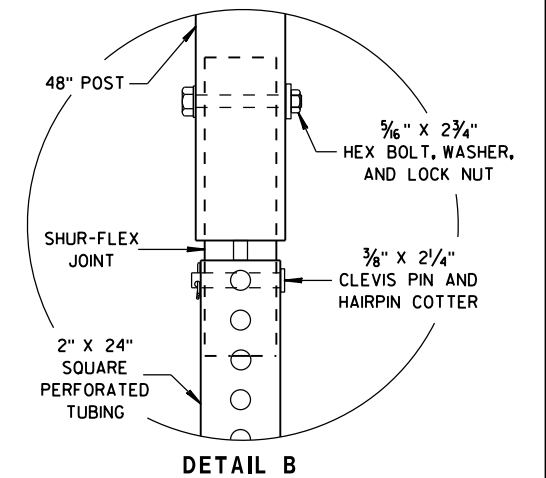
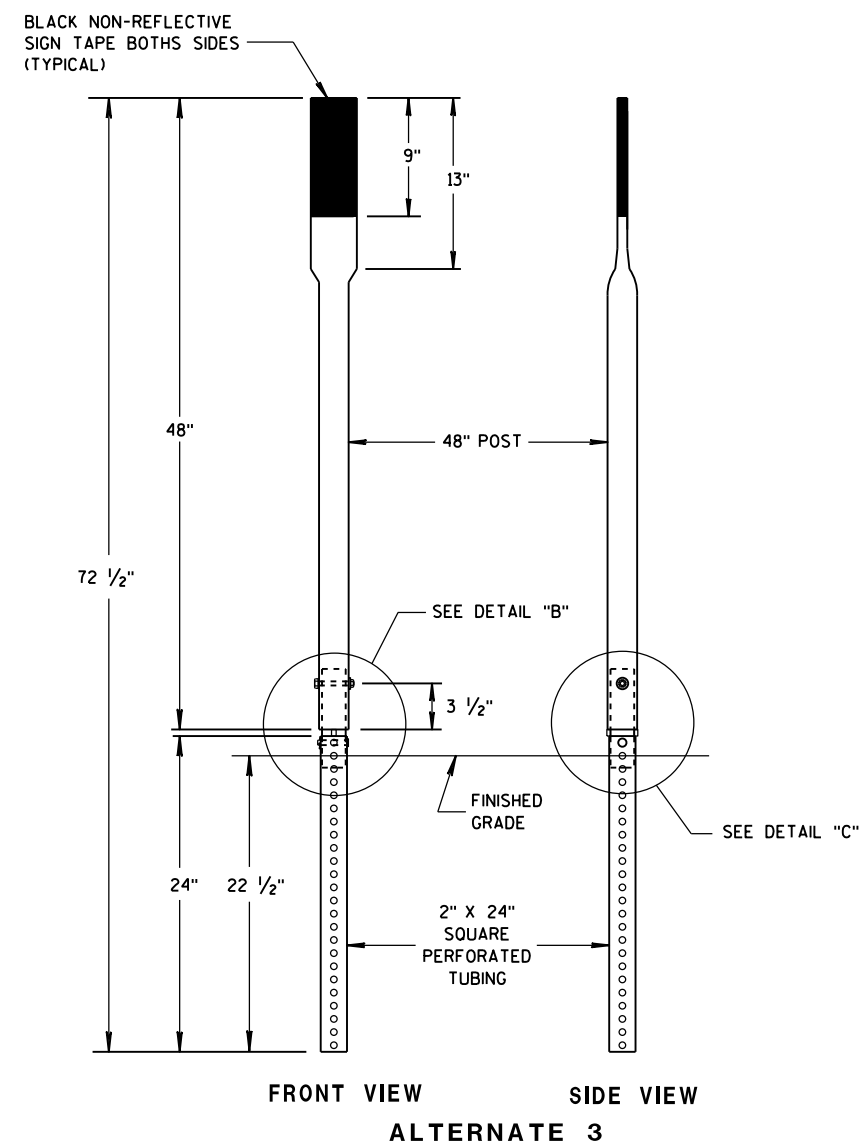
CROSS SECTION
FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

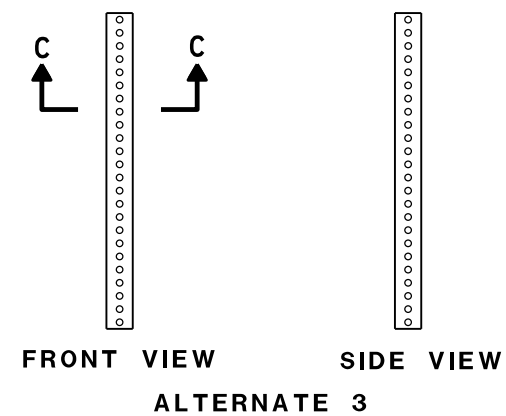
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



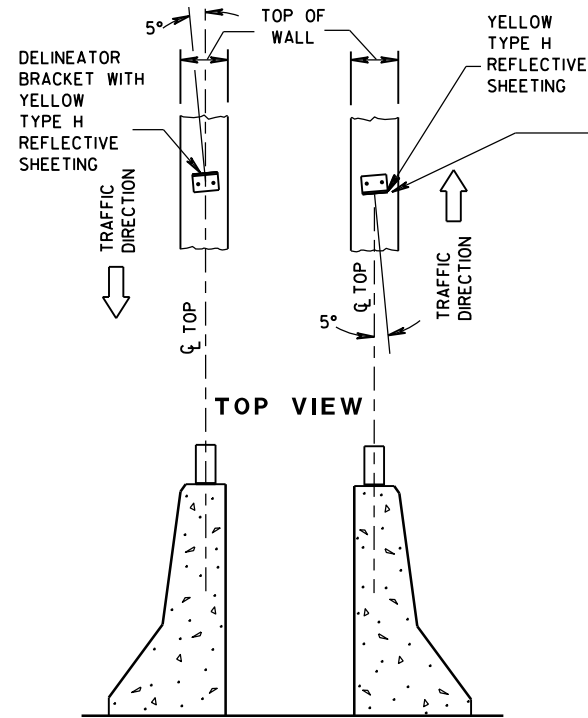
FLEXIBLE MARKER POSTS



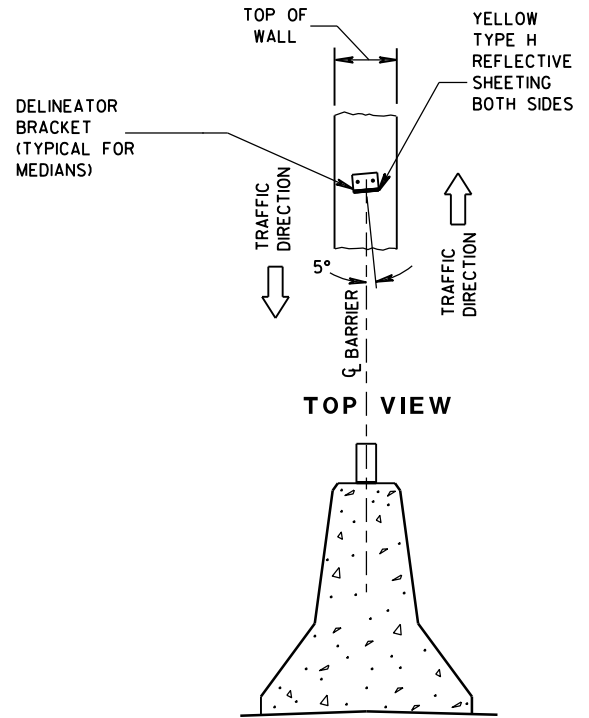
FLEXIBLE MARKER POST ANCHORS



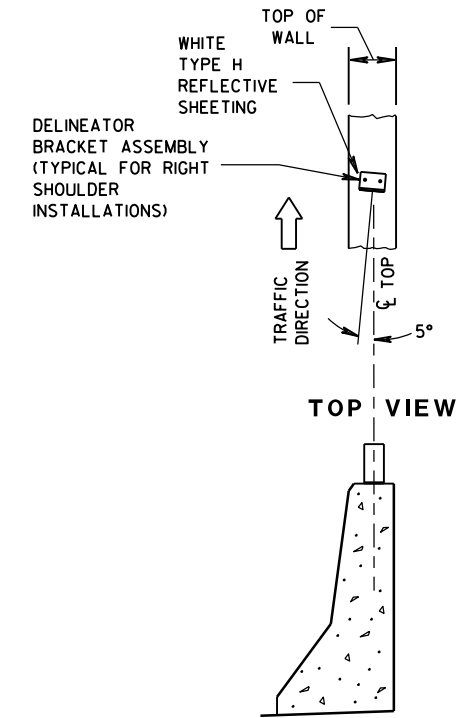
FLEXIBLE MARKER POST FOR CULVERT END	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 10/1/2012 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
FHWA	



DOUBLE BARRIERS IN MEDIAN

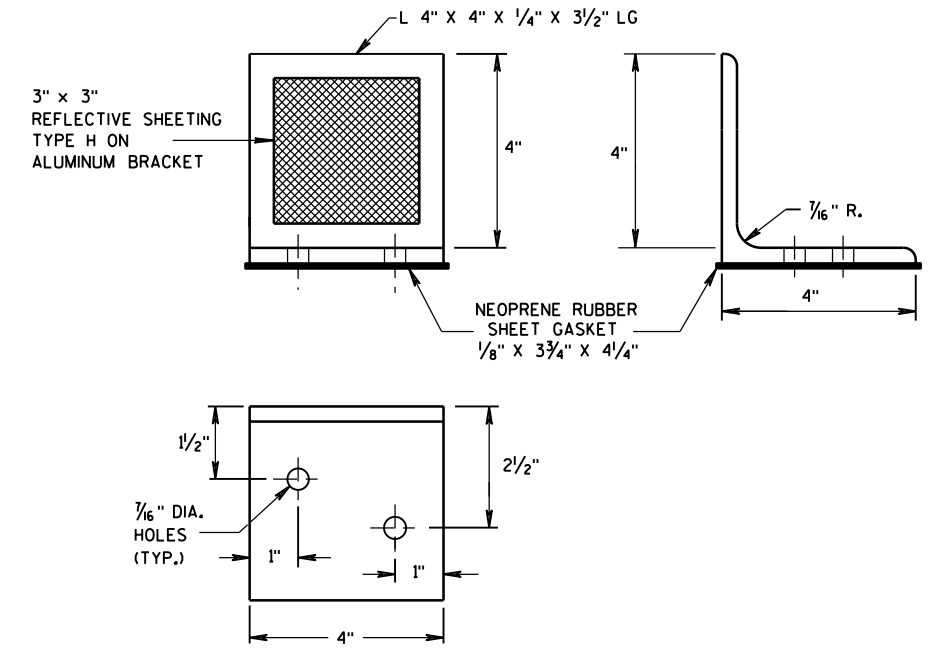


MEDIAN BARRIER



BARRIER LOCATED TO RT. OF TRAFFIC FLOW

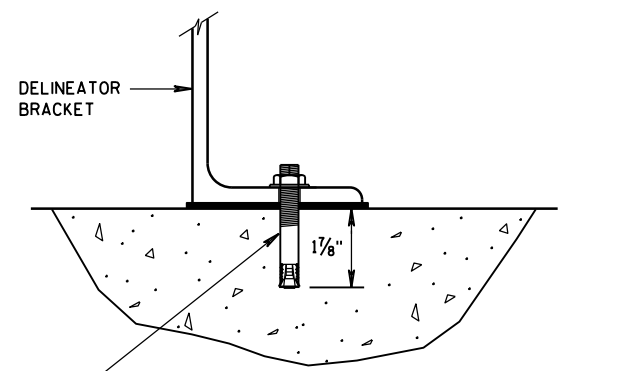
LOCATION AND AIMING DETAILS FOR DELINEATOR BRACKETS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET

REFLECTOR SPACING TABLE

REFLECTOR SPACING	MINIMUM NUMBER OF REFLECTORS
100' C-C	3



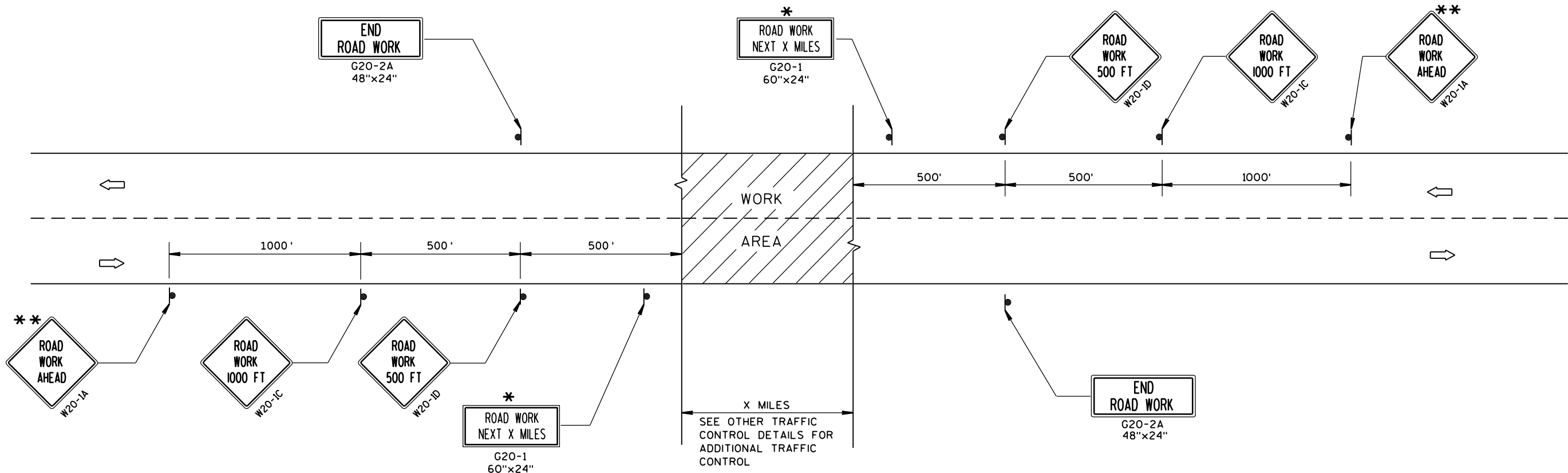
2 - 3/8" DIA. STAINLESS STEEL STUD BOLT, NUT AND WASHER WITH MECHANICAL WEDGE ANCHOR MIN. COMBINED PULLOUT STRENGTH = 4500 LBS.

DELINEATOR BRACKET MOUNTING DETAIL

DELINEATOR BRACKET WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA



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.

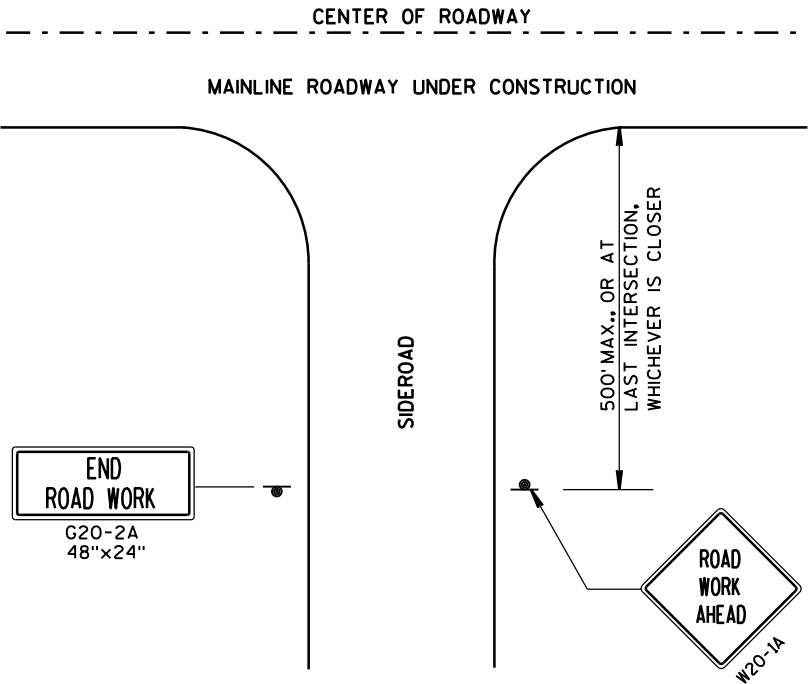
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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.



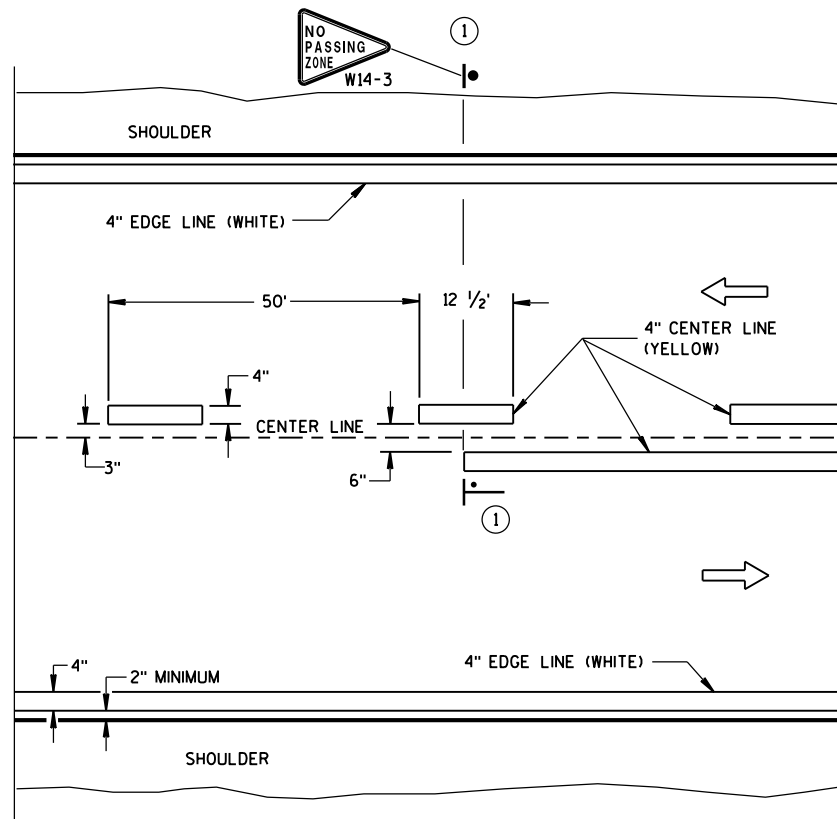
LEGEND

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

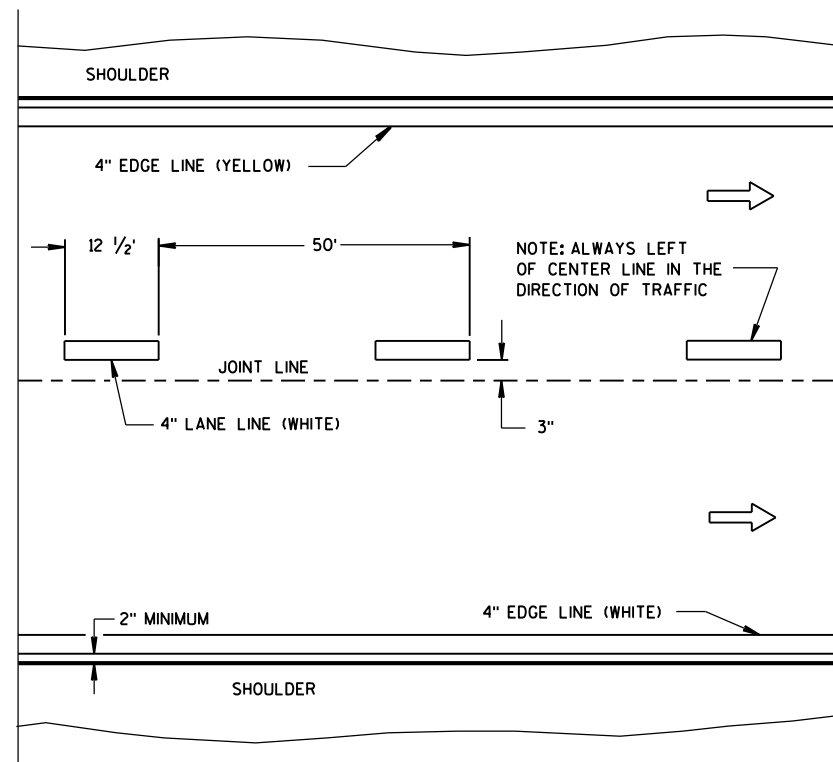
TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

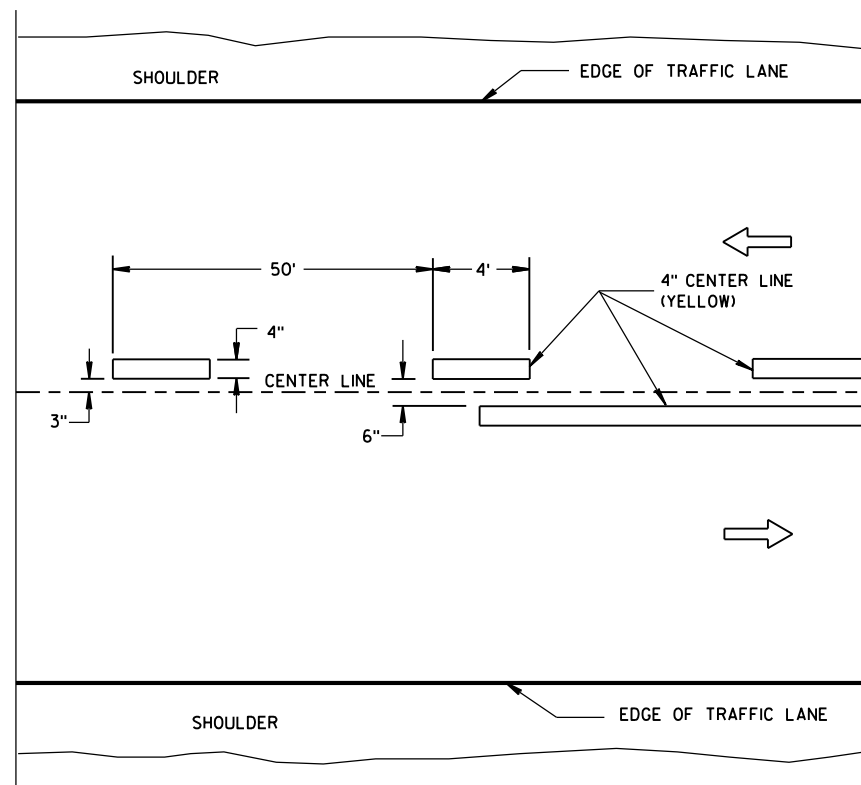


TWO WAY TRAFFIC

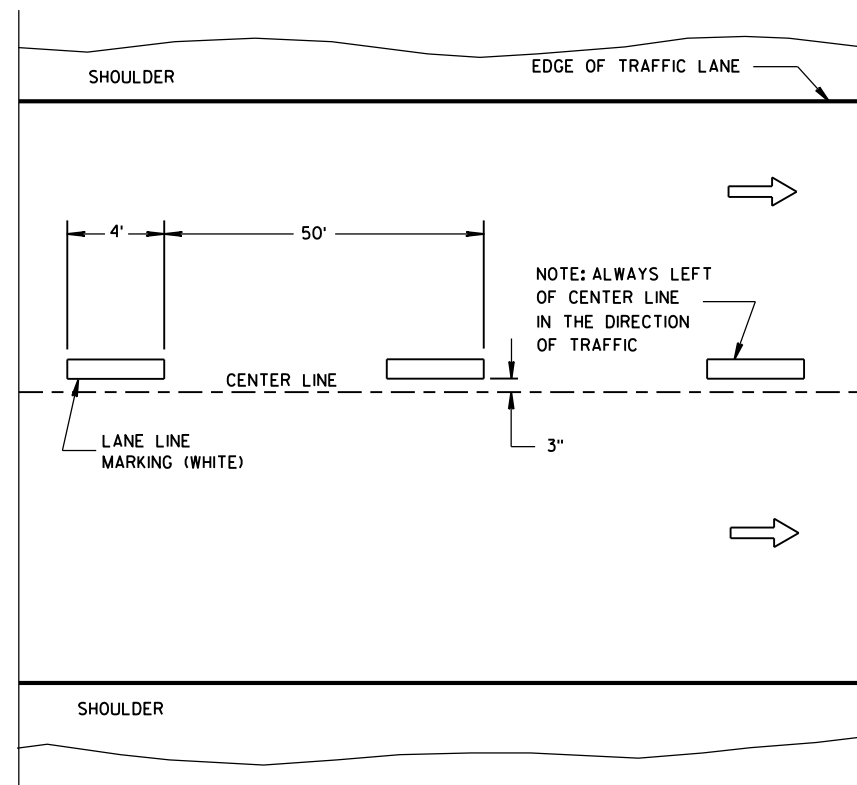


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

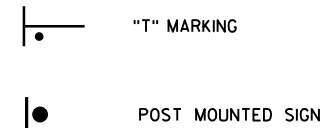
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

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

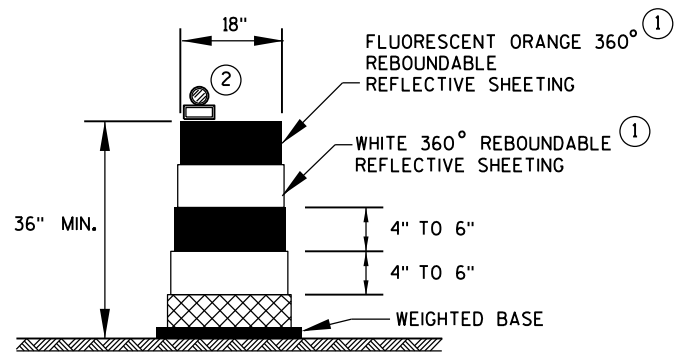
NOTE

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

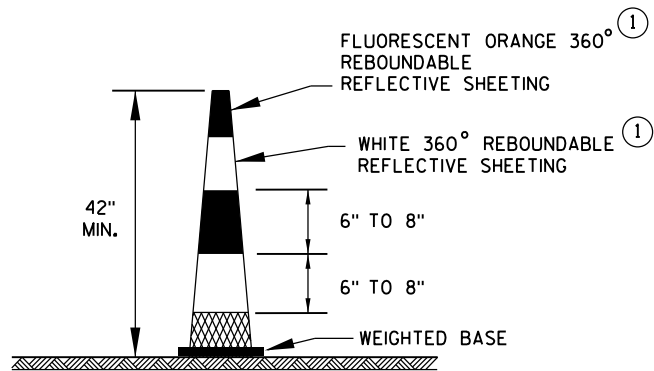
LEGEND



<p>LONGITUDINAL MARKING (MAINLINE)</p>
<p>STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</p>
<p>APPROVED June 2017 /S/ Matthew R. Rauch DATE STATE SIGNING AND MARKING ENGINEER</p> <p>FHWA</p>



DRUM

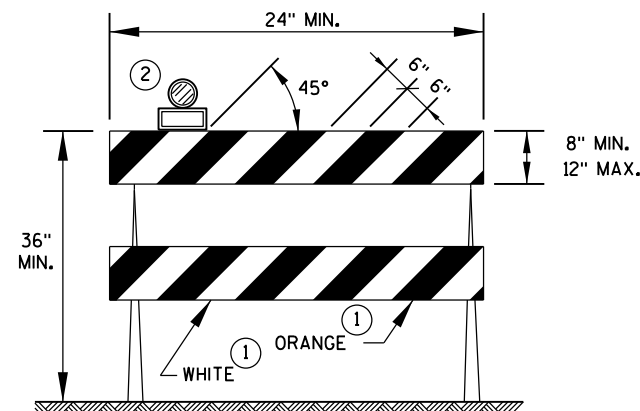


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

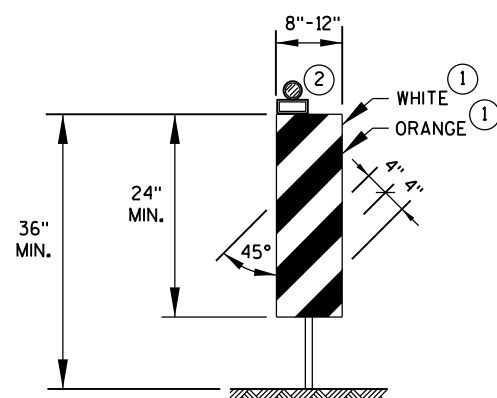
GENERAL NOTES

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



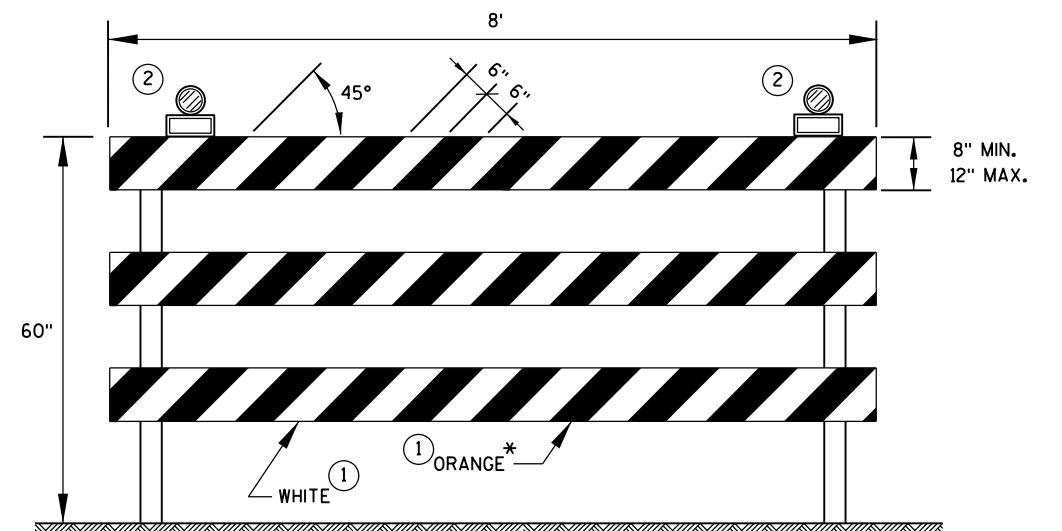
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.
ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

FHWA

/S/ Andrew Heidtke
WORK ZONE ENGINEER

LEGEND

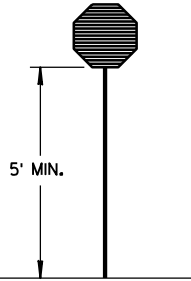
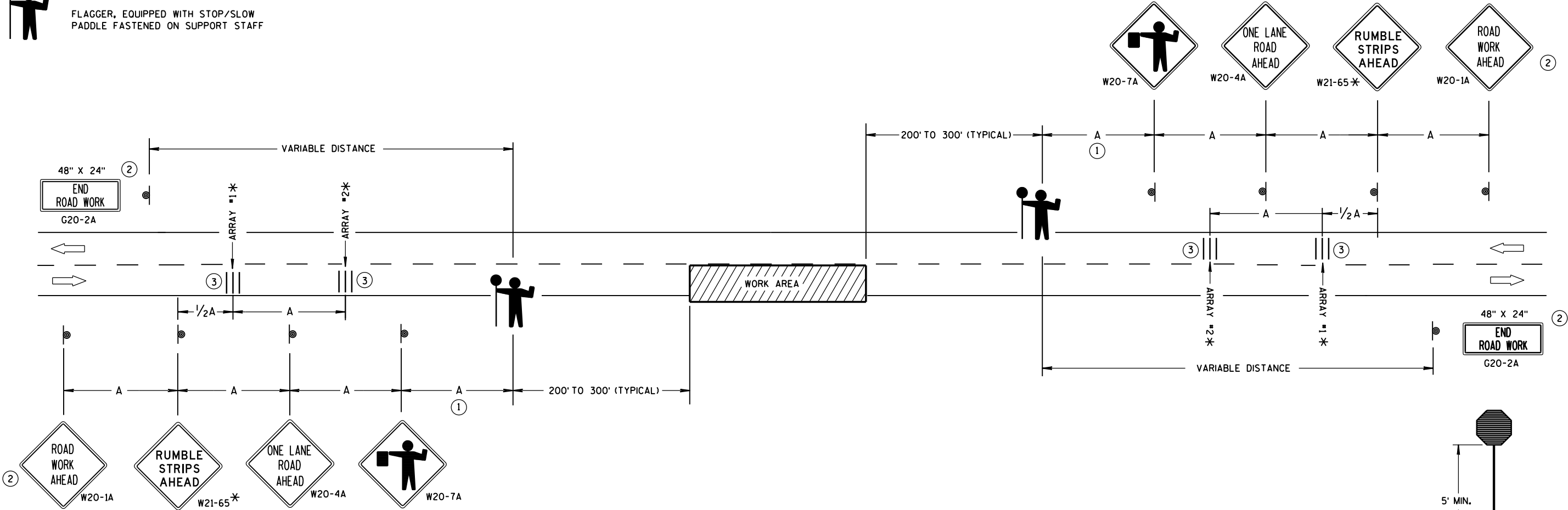
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

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.

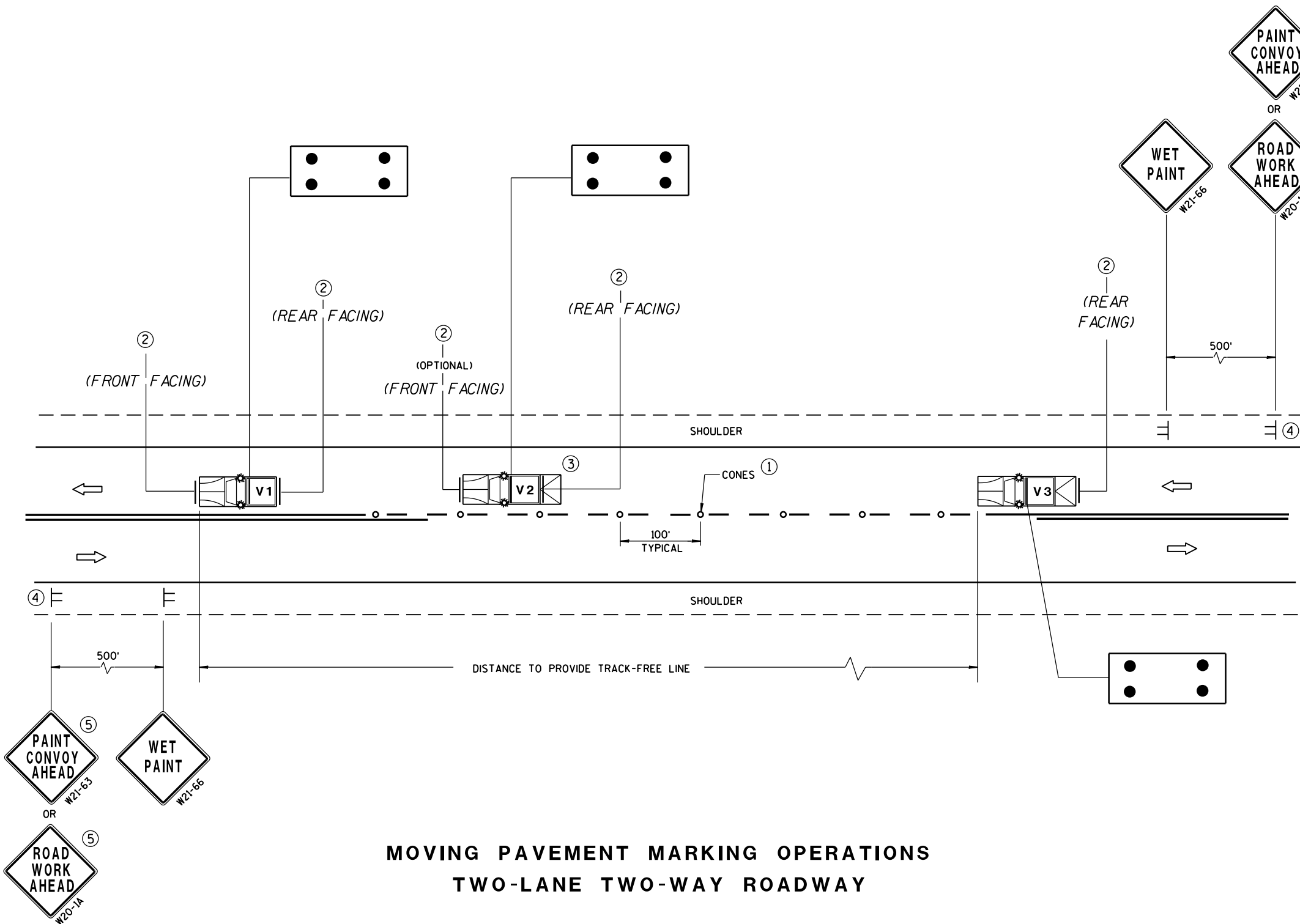
* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

- 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

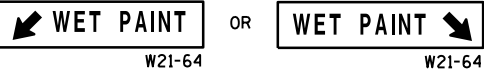
APPROVED
June 2017 /S/ Andrew Heldtke
DATE WORK ZONE ENGINEER
FHWA



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.



OR



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

GENERAL NOTES

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

A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

1 USED ONLY WHEN APPROVED BY REGION TRAFFIC ENGINEER.

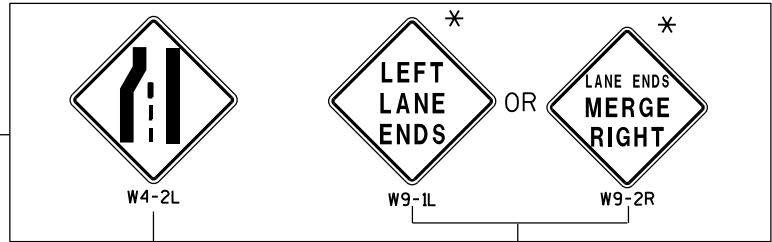
SYMBOLS

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

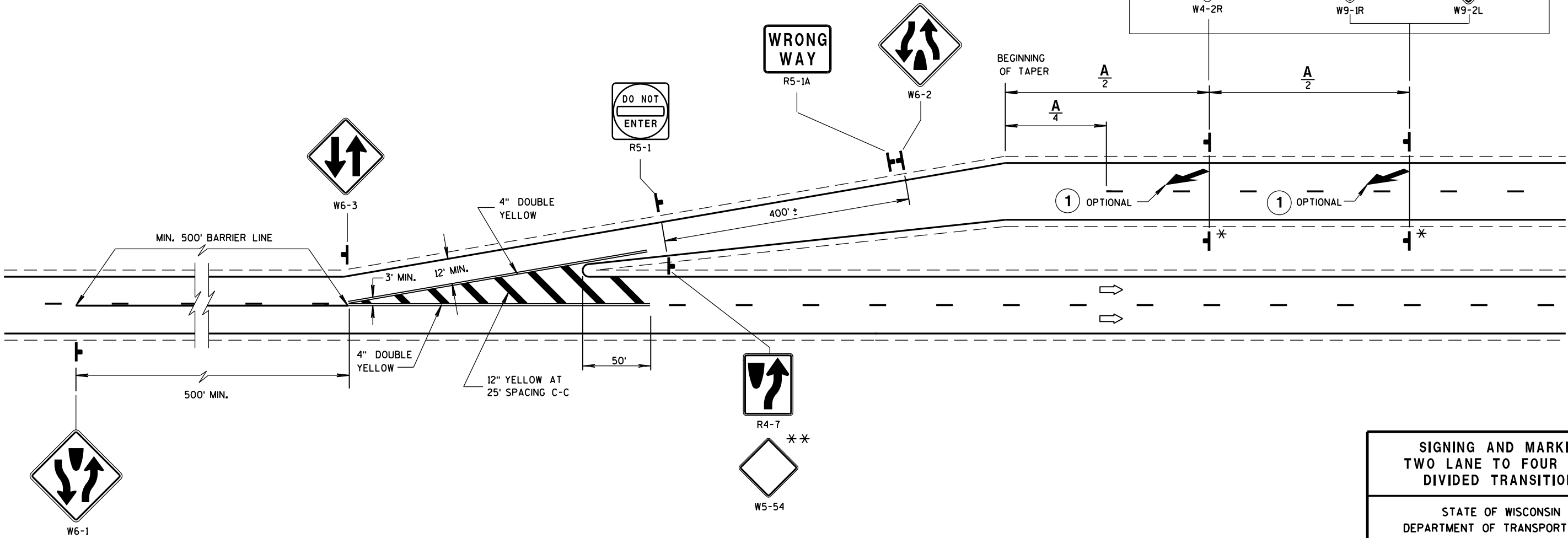
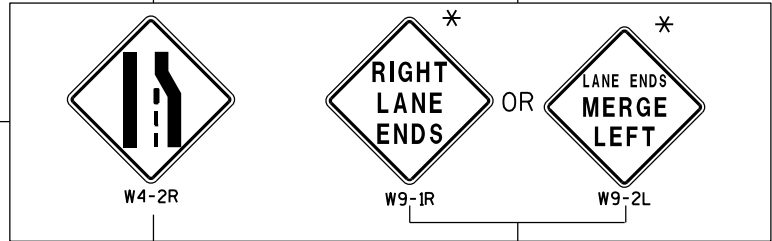
DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	325
30	460
35	565
40	670
45	775
50	885
55	990

OPTION 2



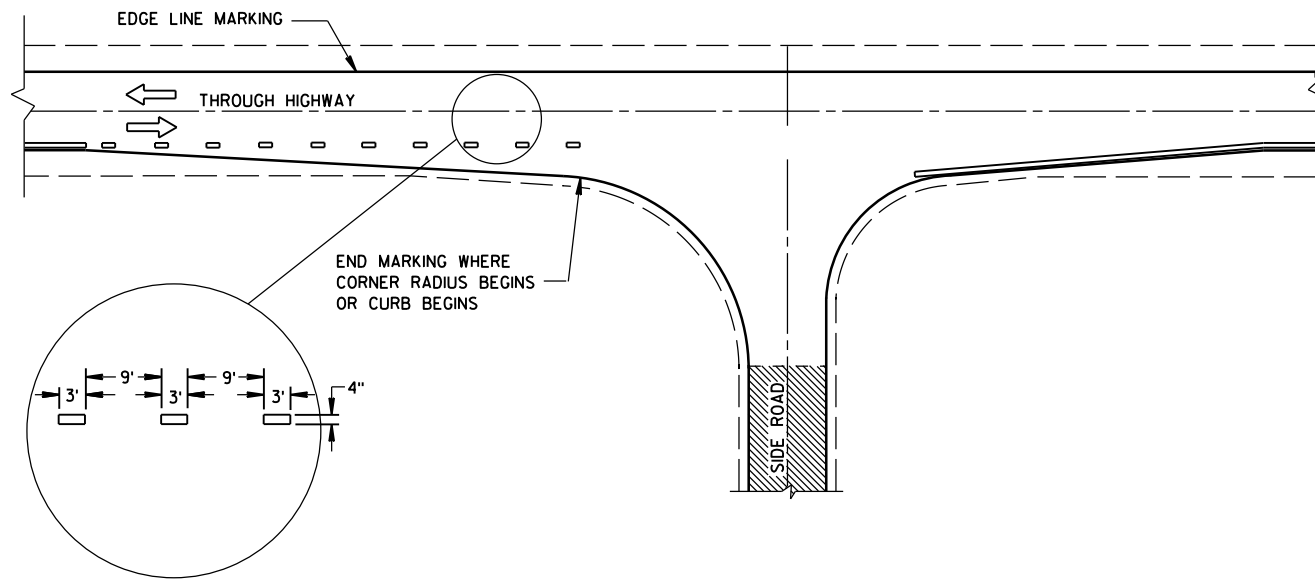
OPTION 1



SIGNING AND MARKING
TWO LANE TO FOUR LANE
DIVIDED TRANSITIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA




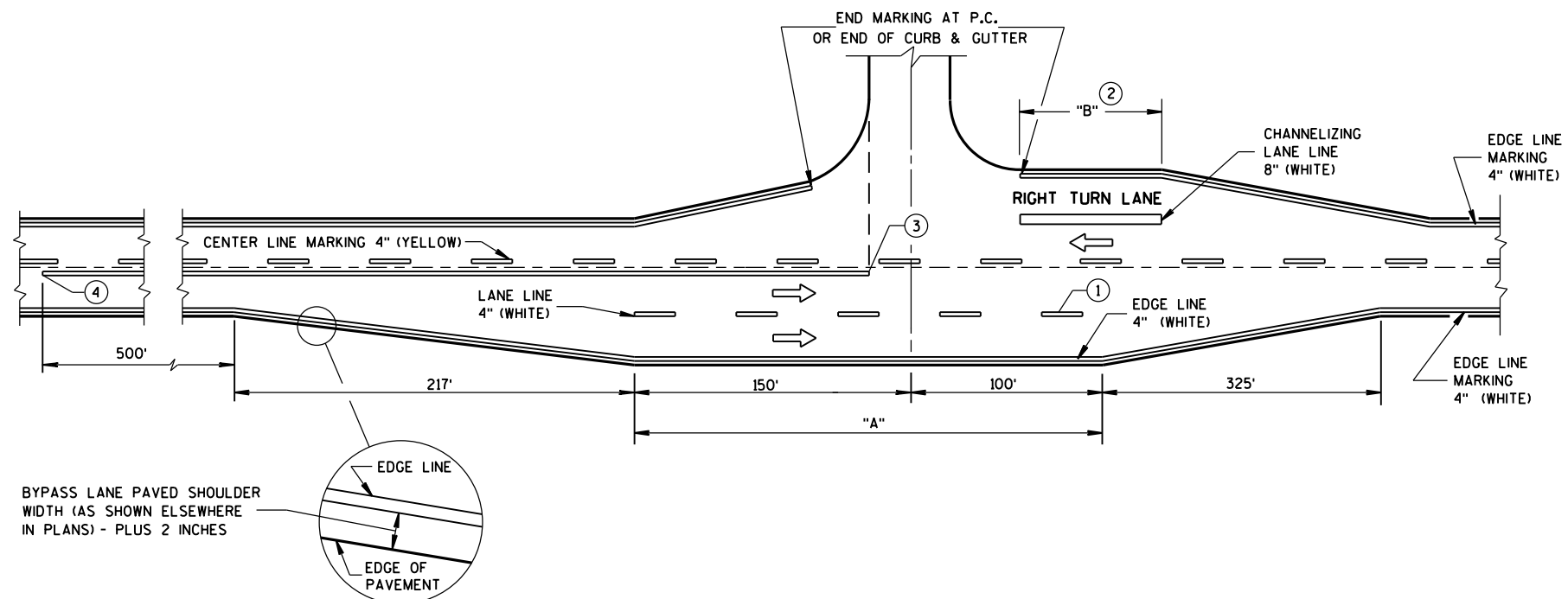
MINOR INTERSECTION

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.

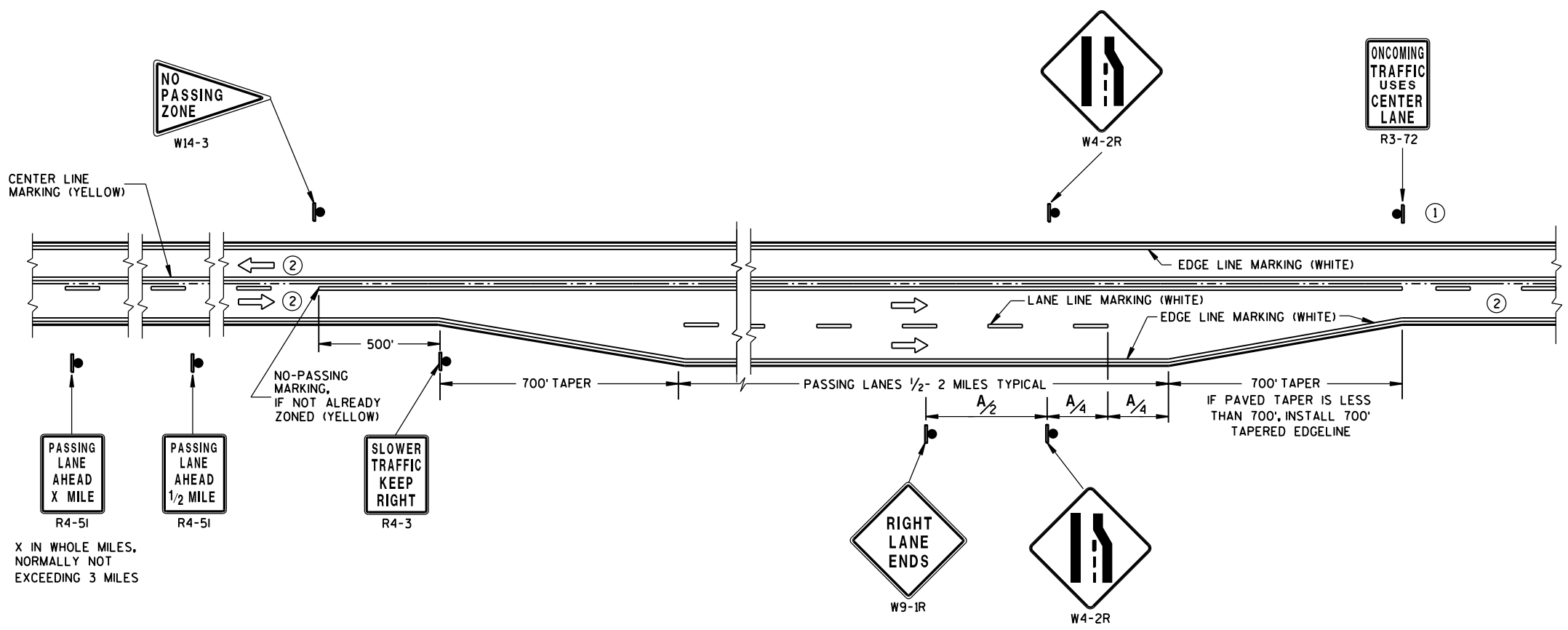
ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL



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

**PAVEMENT MARKING
(INTERSECTIONS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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

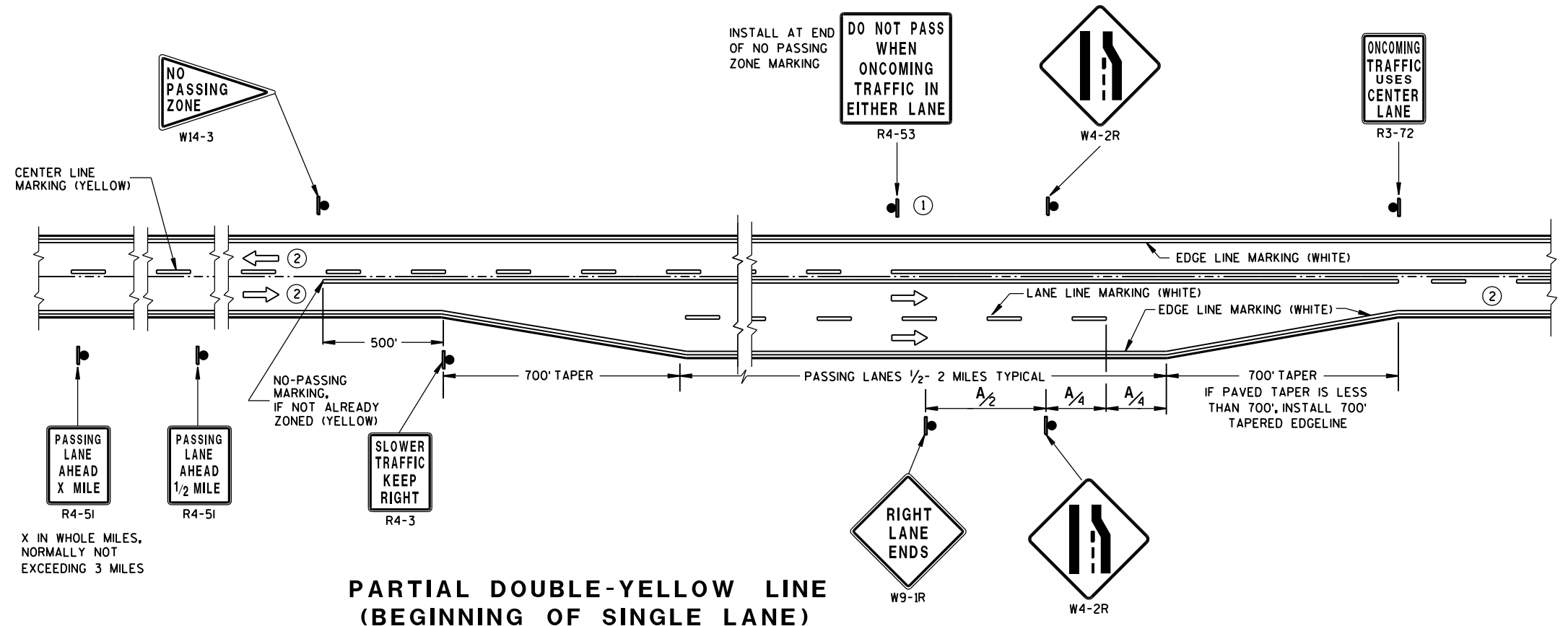
GENERAL NOTES

- ① SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- ② THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.

ARROW SYMBOL (➡) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

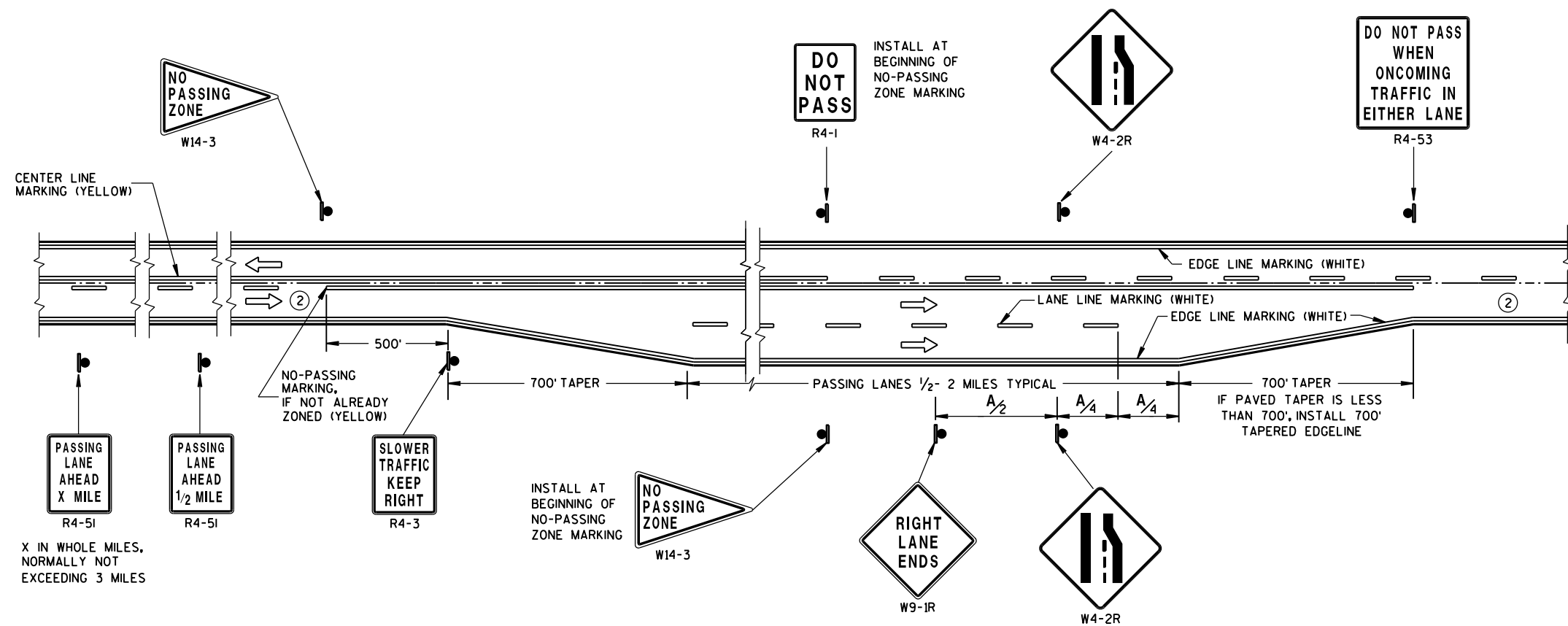
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	850
55	950



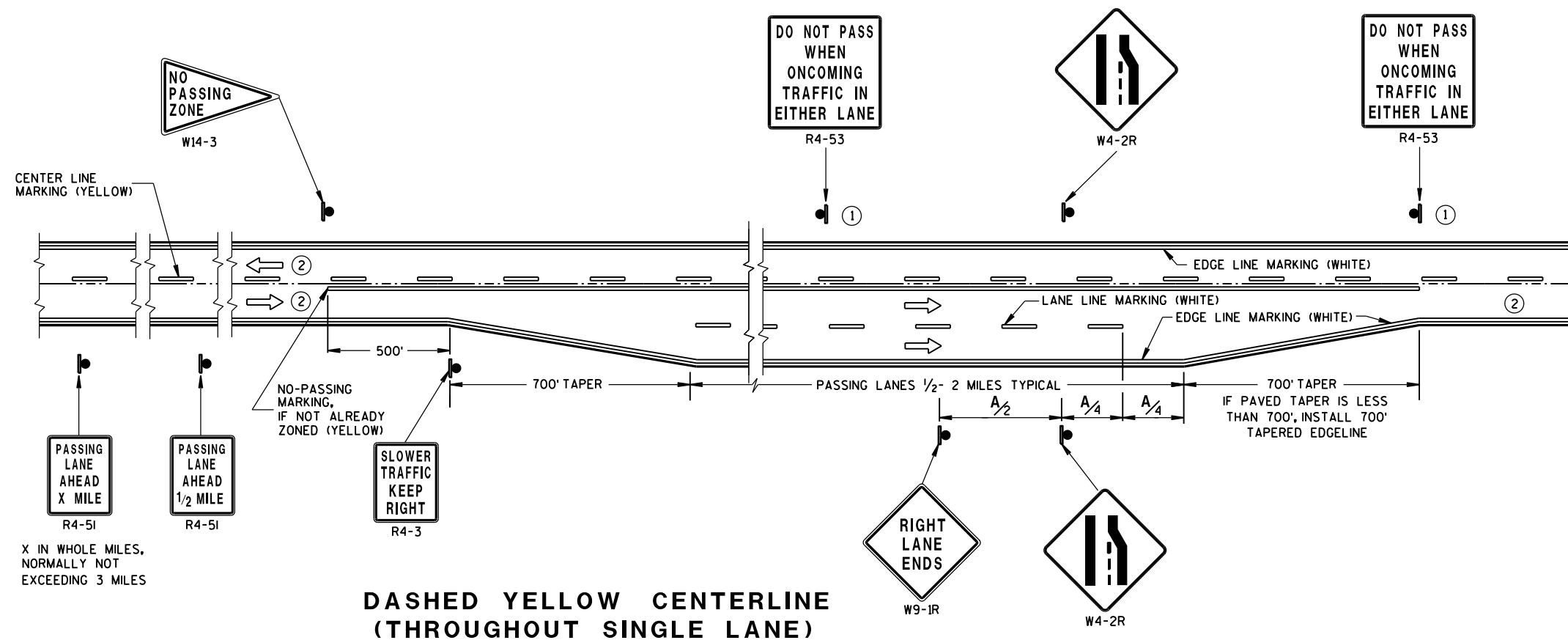
**PARTIAL DOUBLE-YELLOW LINE
(BEGINNING OF SINGLE LANE)**

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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



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

APPROVED
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DATE STATE SIGNING AND MARKING ENGINEER
FHWA

LEGEND

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

GENERAL NOTES

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

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

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

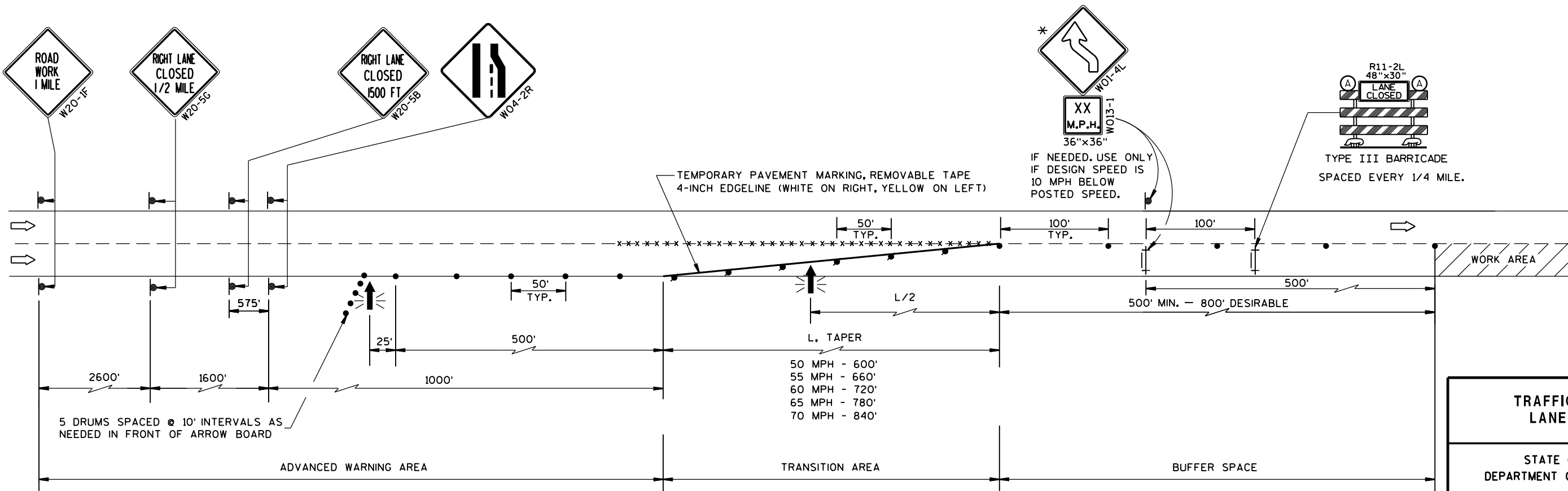
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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

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

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

* THE LEFT REVERSE CURVE SIGN (W01-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED March 2016 DATE	/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	

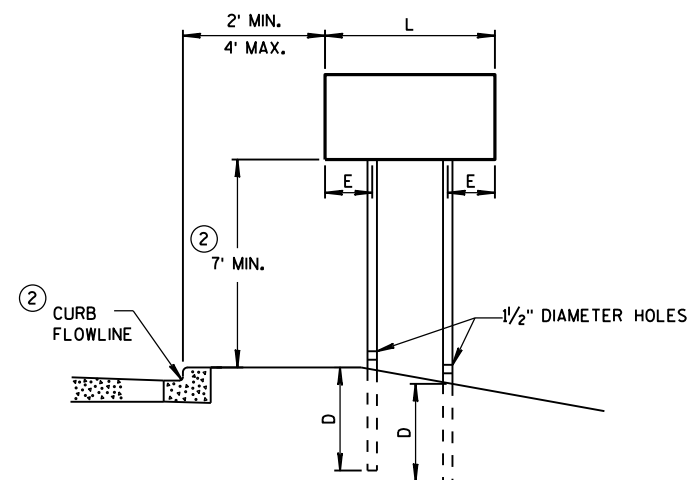
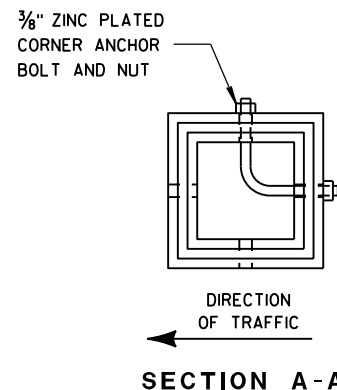


DETAIL OF TUBULAR STEEL SIGN POST

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.

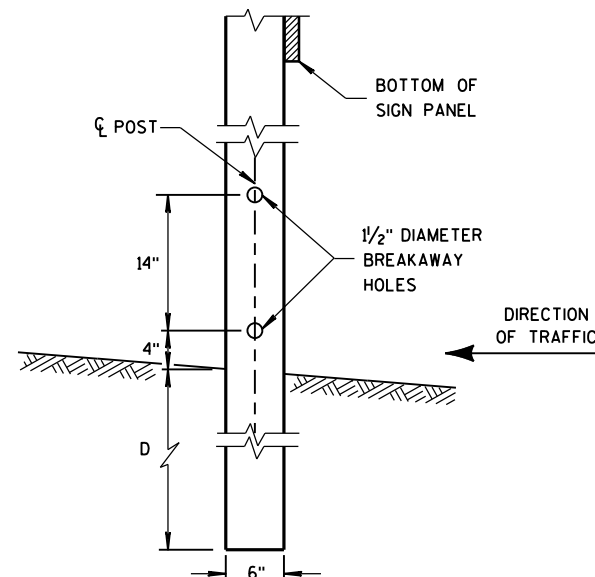


URBAN AREA

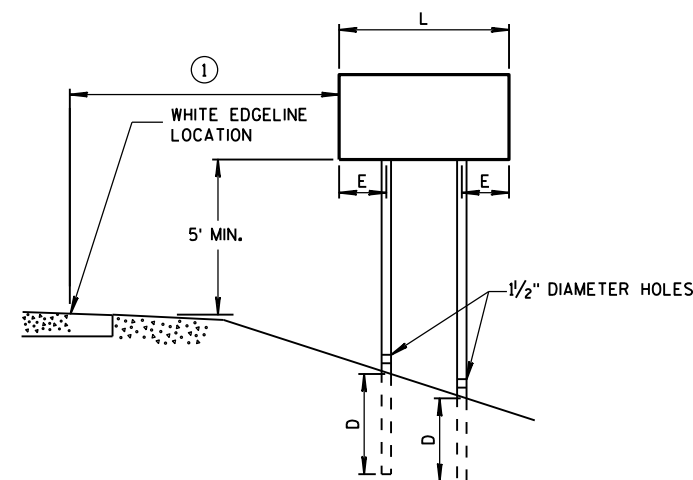
POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST EMBEDMENT DEPTH

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



4"x6" 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

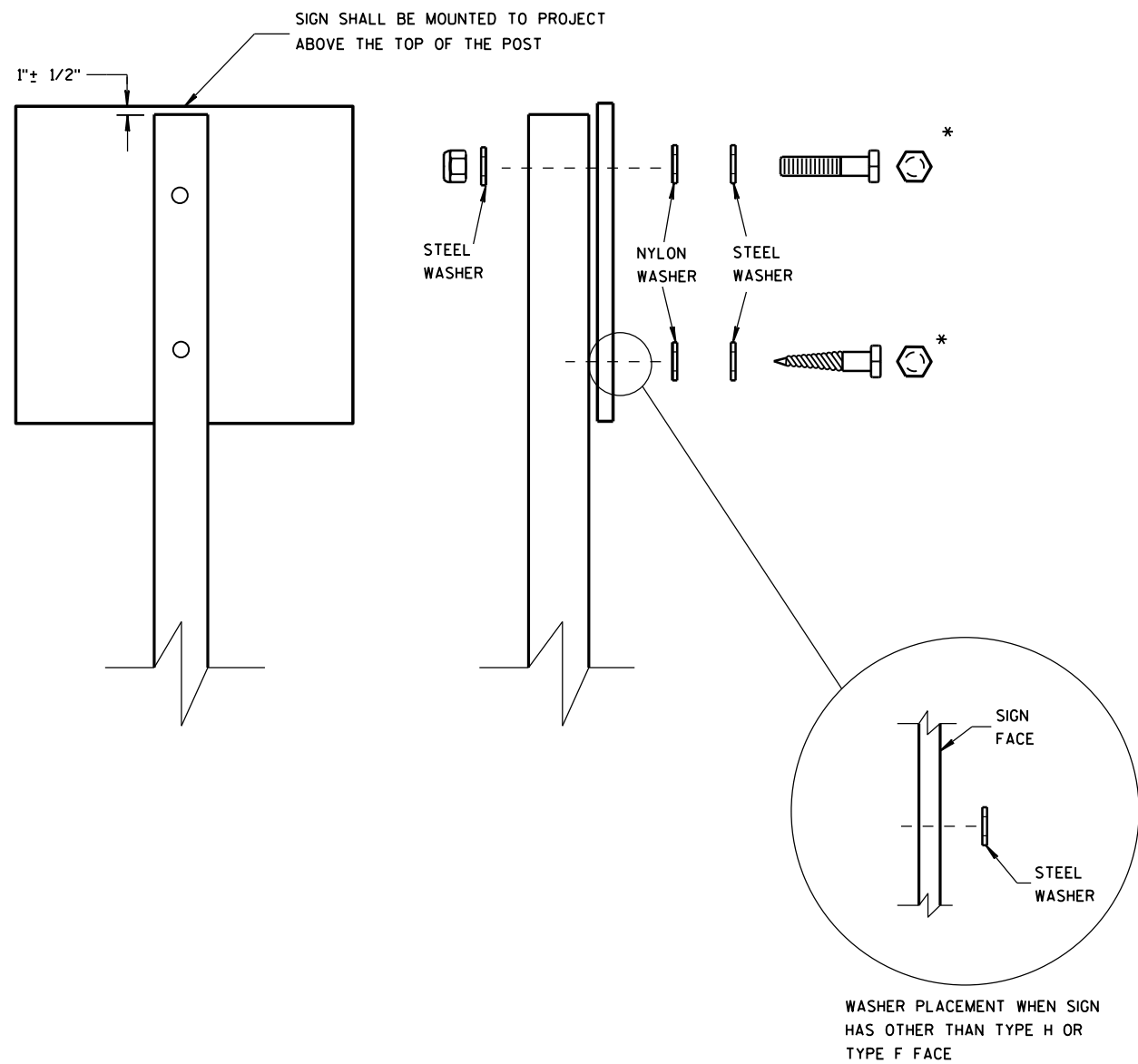
SEE NOTE ③

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.

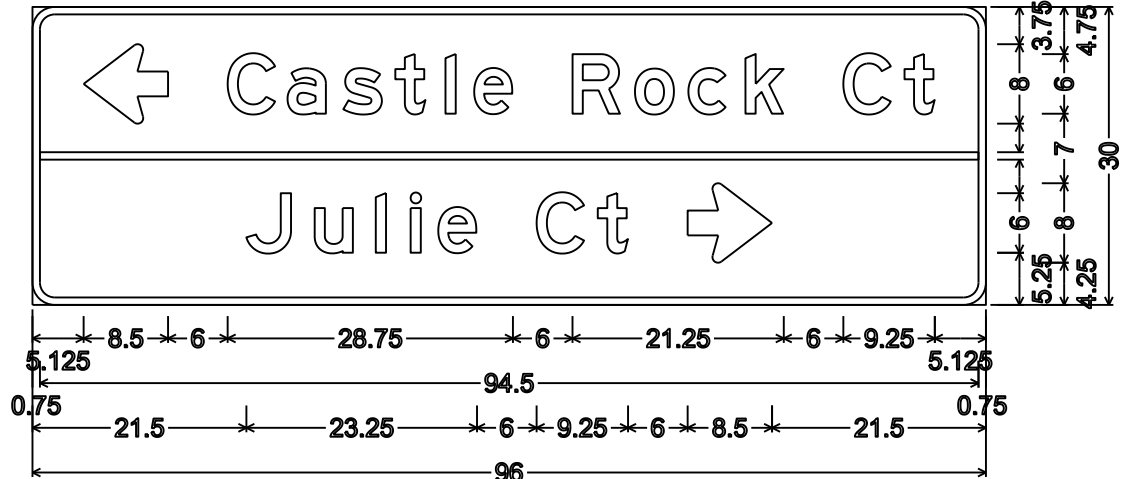
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" x 3"
 - MACHINE BOLTS - 5/16" x 6-1/2" OR 7" LENGTH W/ NUTS

- 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

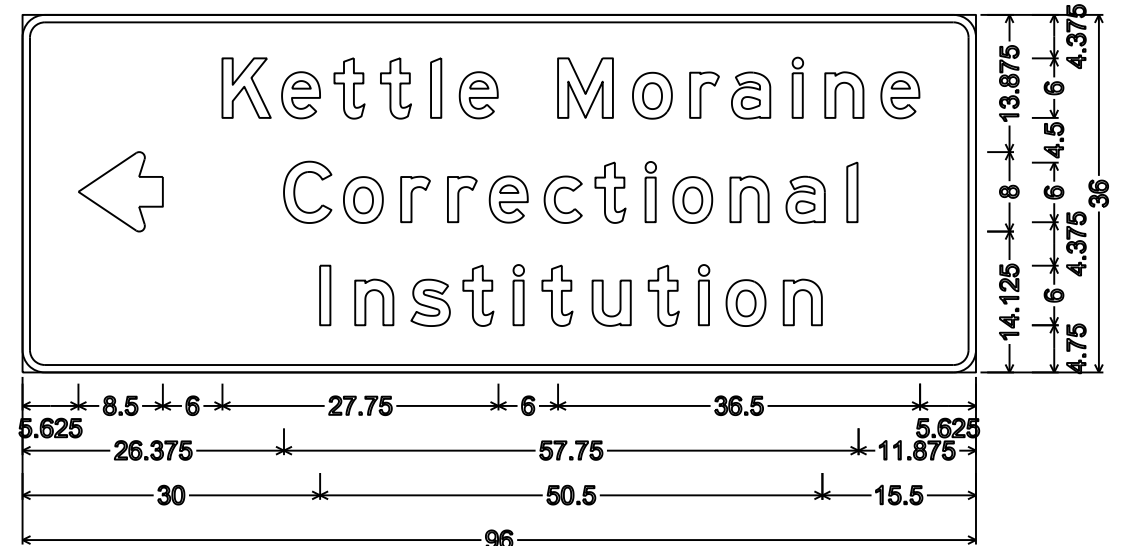
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. x 3/8" I.D. x 1/16" STEEL
 - 1-1/4" O.D. x 3/8" I.D. x .080 NYLON FOR ALL TYPE H SIGNS

* 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.

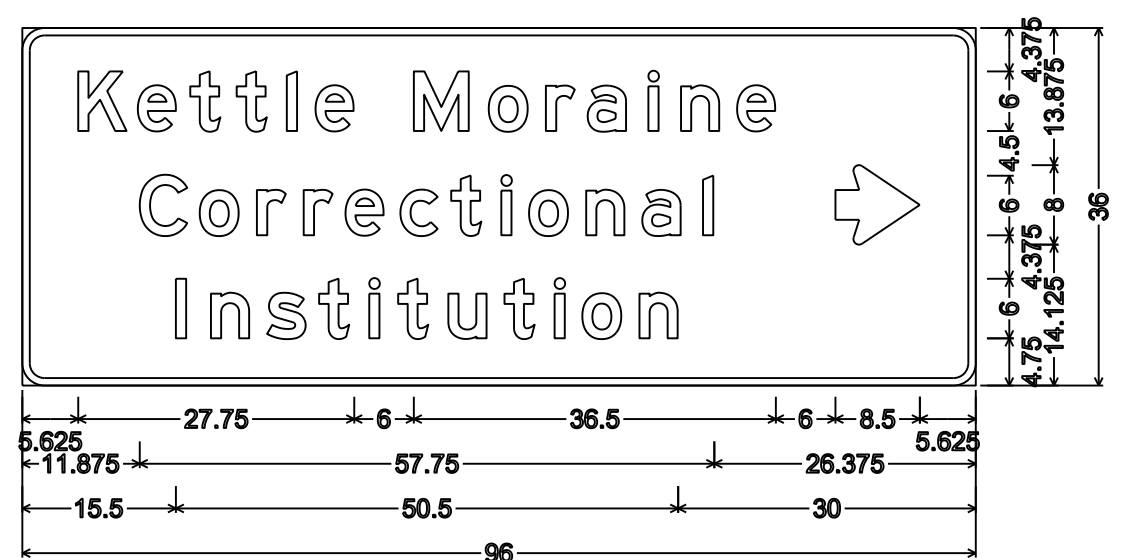
ATTACHMENT OF SIGNS TO POSTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heldtke WORK ZONE ENGINEER
FHWA	



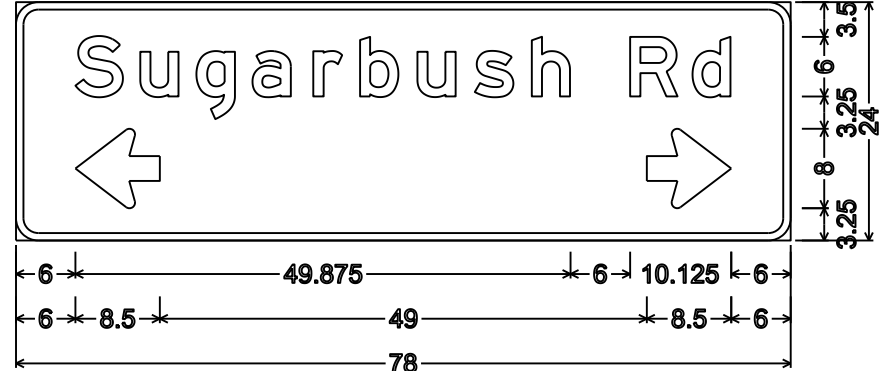
D1-2; 2.250" Radius, 0.750" Border



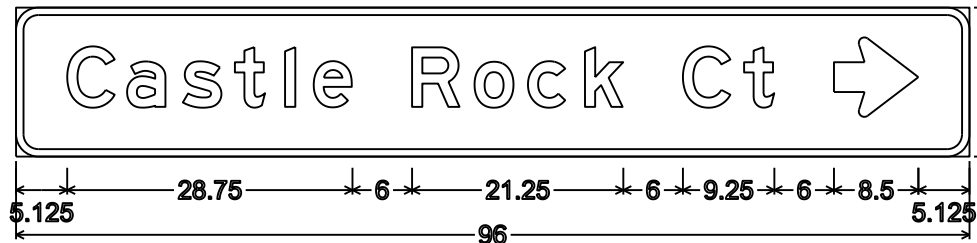
D1-3; 2.250" Radius, 0.750" Border



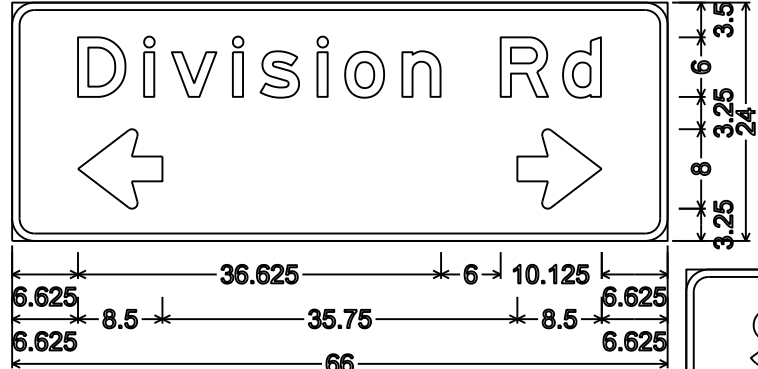
D1-3; 2.250" Radius, 0.750" Border



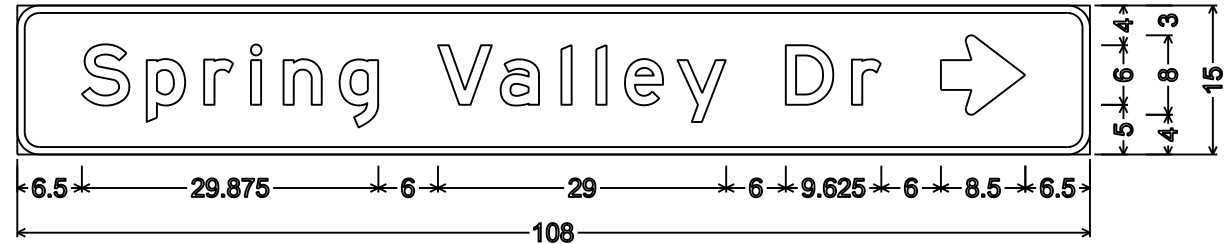
D1-61; 2.250" Radius, 0.750" Border



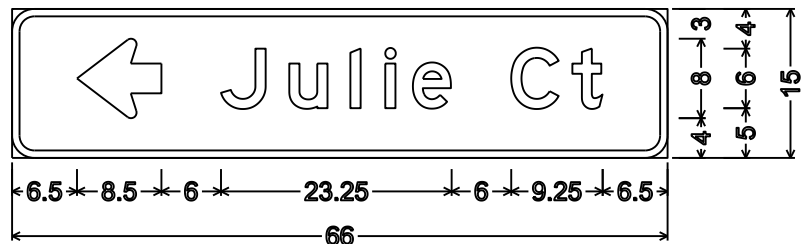
D1-1; 2.250" Radius, 0.750" Border



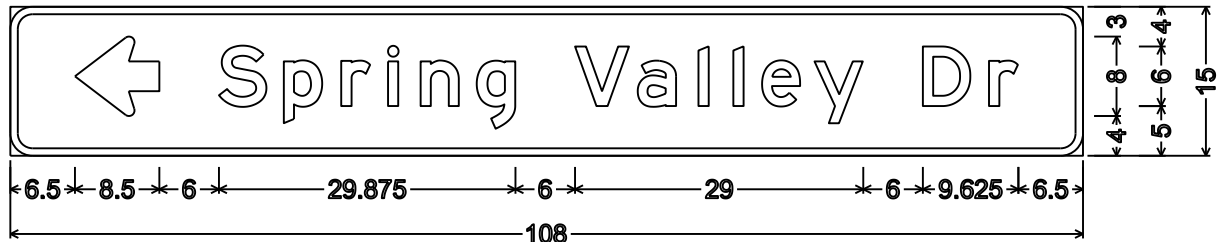
D1-61;
2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border

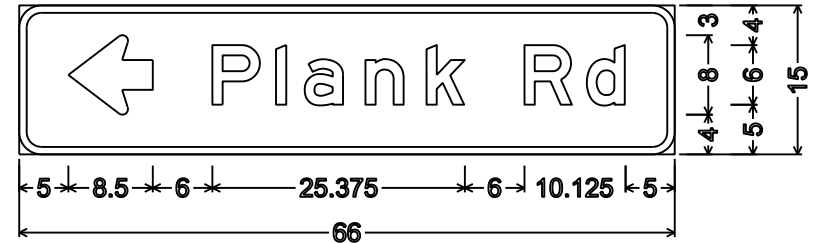


D1-1; 2.250" Radius, 0.750" Border

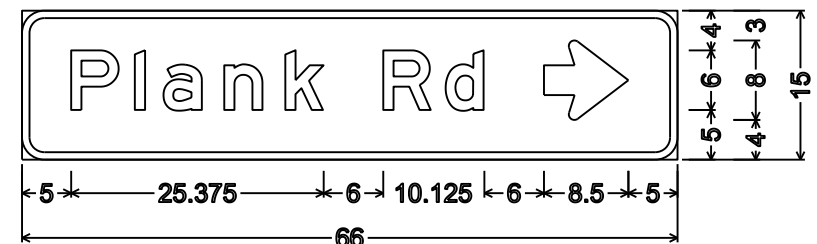


D1-1; 2.250" Radius, 0.750" Border

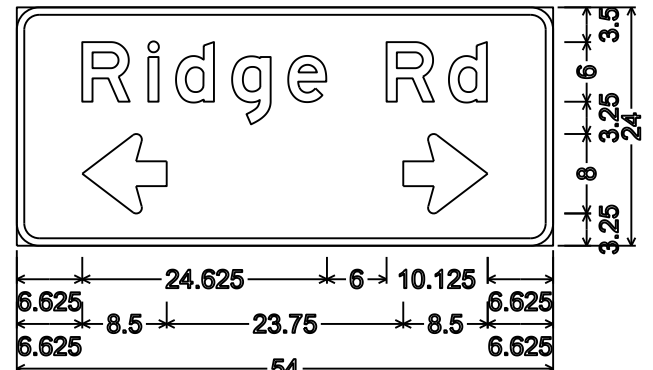
- NOTES
1. Signs are Type II- Type H Reflective
 2. Color:
Background - Green
Message - White
 3. Message Series - E



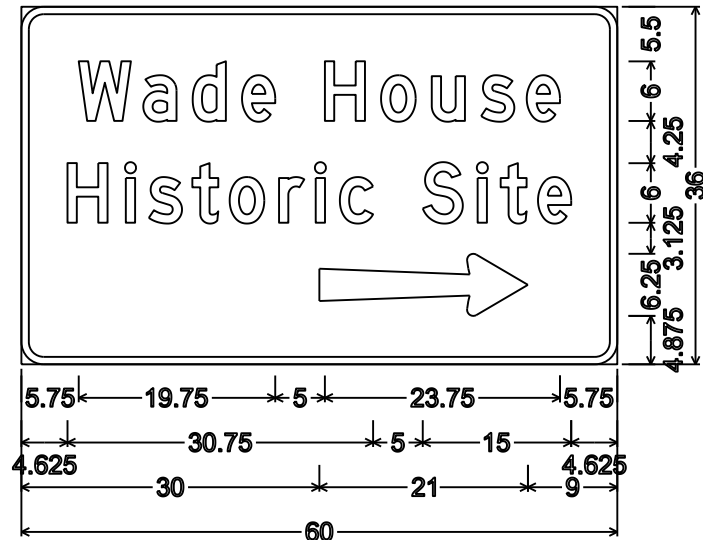
D1-1; 2.250" Radius, 0.750" Border



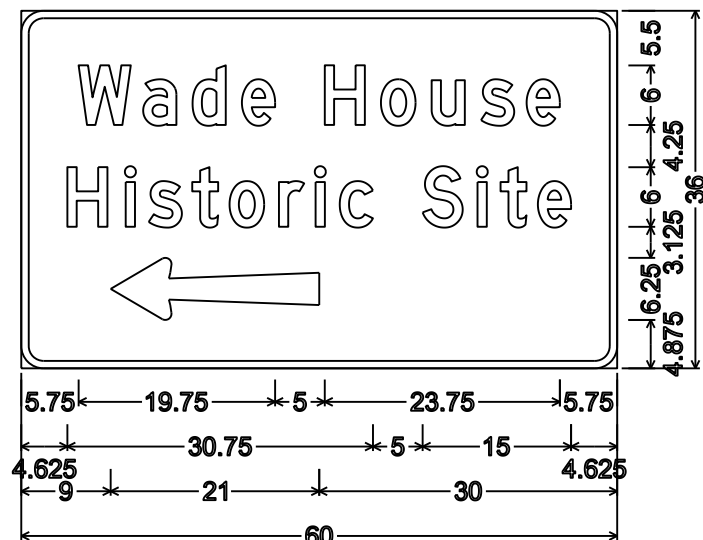
D1-1; 2.250" Radius, 0.750" Border



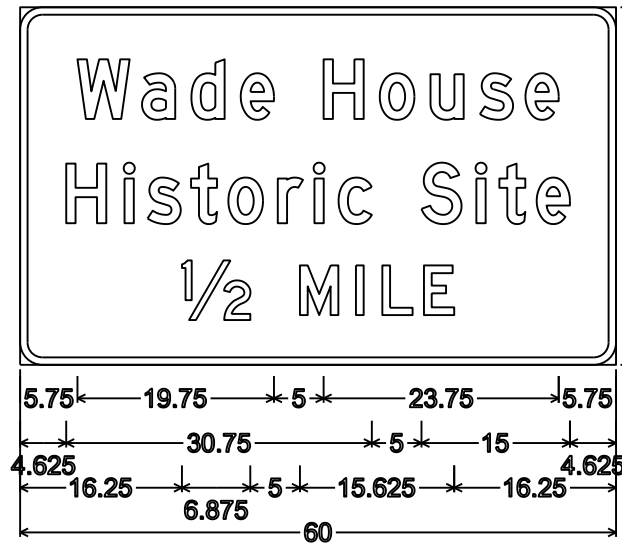
D1-61;
2.250" Radius, 0.750" Border,



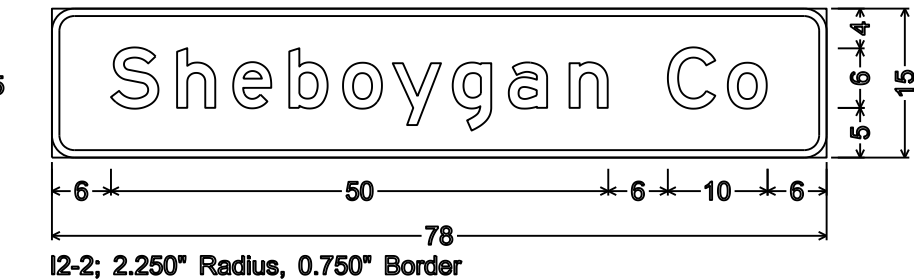
D5-66R;
2.250" Radius, 0.750" Border, White on Brown;
"Wade" D; "House" D; "Historic" D; "Site" D



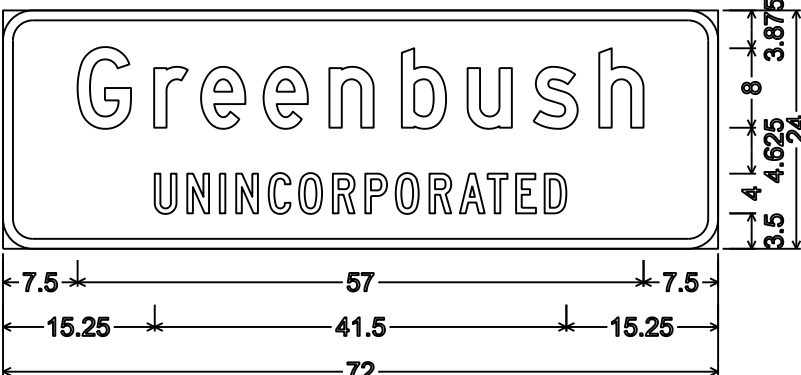
D5-66L;
2.250" Radius, 0.750" Border, White on Brown;
"Wade" D; "House" D; "Historic" D; "Site" D



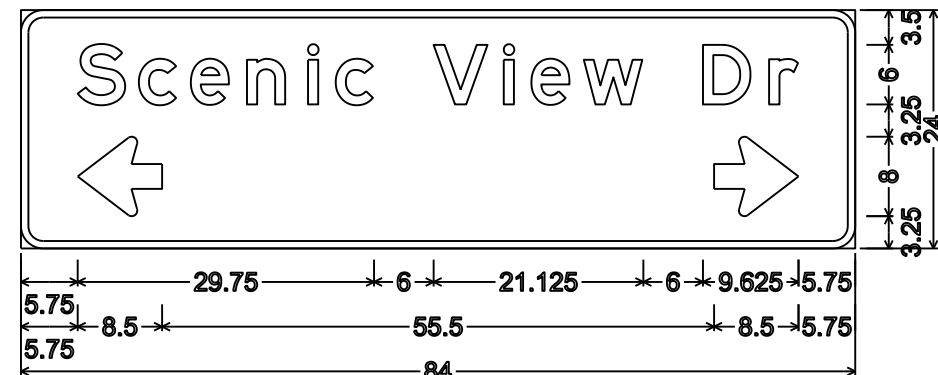
D7-65;
2.250" Radius, 0.750" Border, White on Brown;
"Wade" D; "House" D; "Historic" D; "Site" D;
"1/2" D; "MILE" D



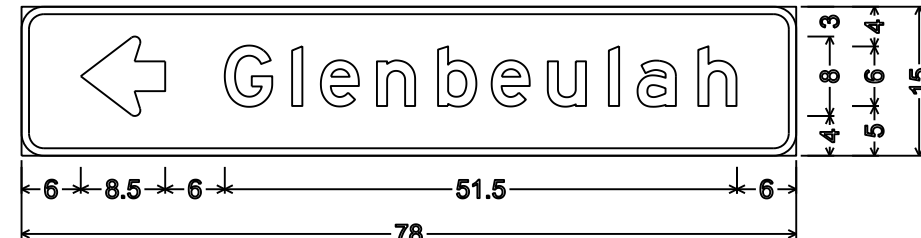
I2-2; 2.250" Radius, 0.750" Border



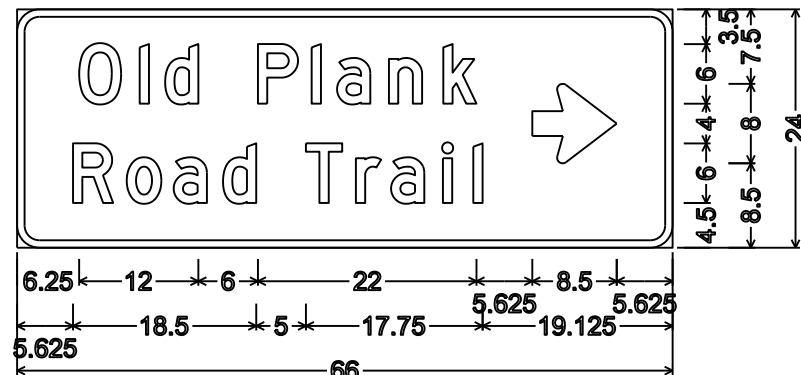
I2-3; 3.000" Radius, 1.000" Border,
"Greenbush" D; "UNINCORPORATED" C



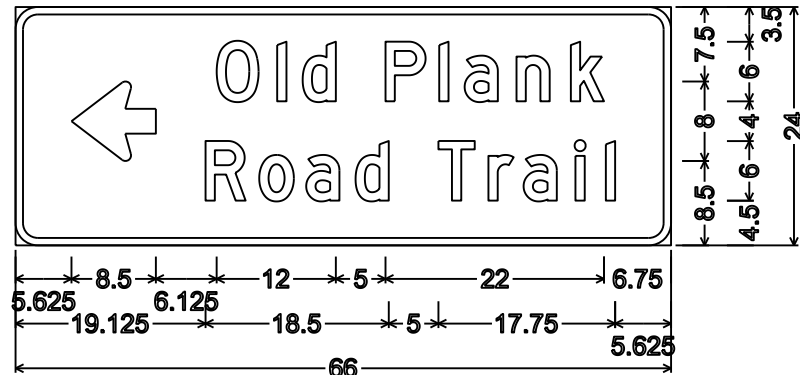
D1-61; 2.250" Radius, 0.750" Border



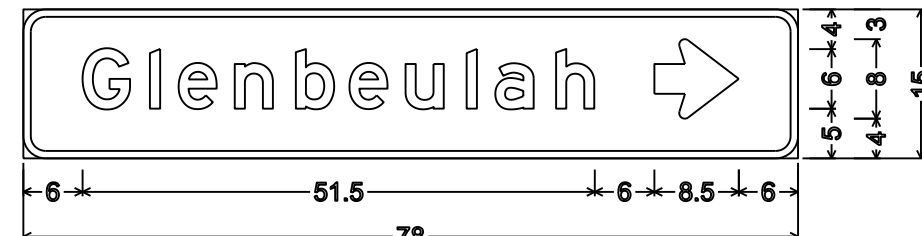
D1-1; 2.250" Radius, 0.750" Border



D1-2; 2.250" Radius, 0.750" Border, White on Brown;
"Old" D; "Plank" D; "Road" D; "Trail" D



D1-2; 2.250" Radius, 0.750" Border, White on Brown;
"Old" D; "Plank" D; "Road" D; "Trail" D



D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border

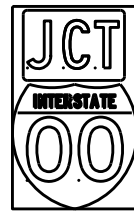
NOTES

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

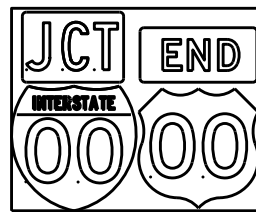
7

7

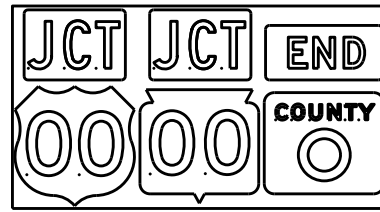
TYPICAL ASSEMBLIES



J1-1



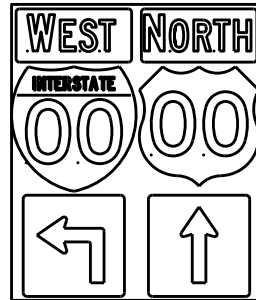
J1-2



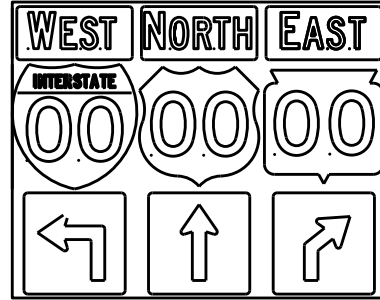
J1-3



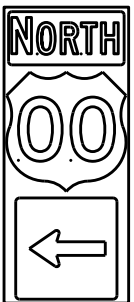
J2-1



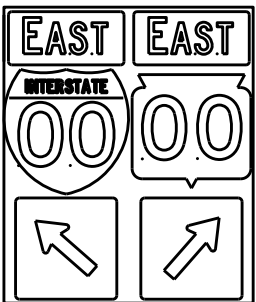
J2-2



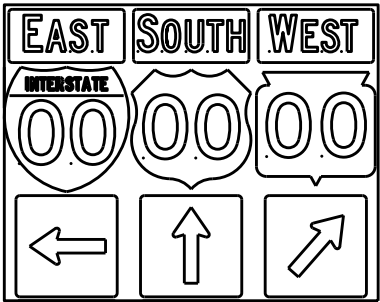
J2-3



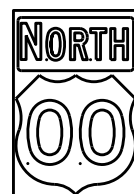
J3-1



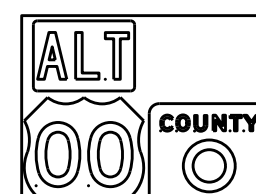
J3-2



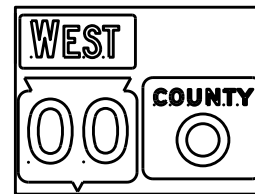
J3-3



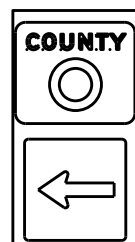
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

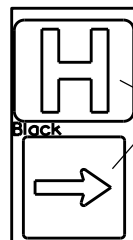


J22-1



JV

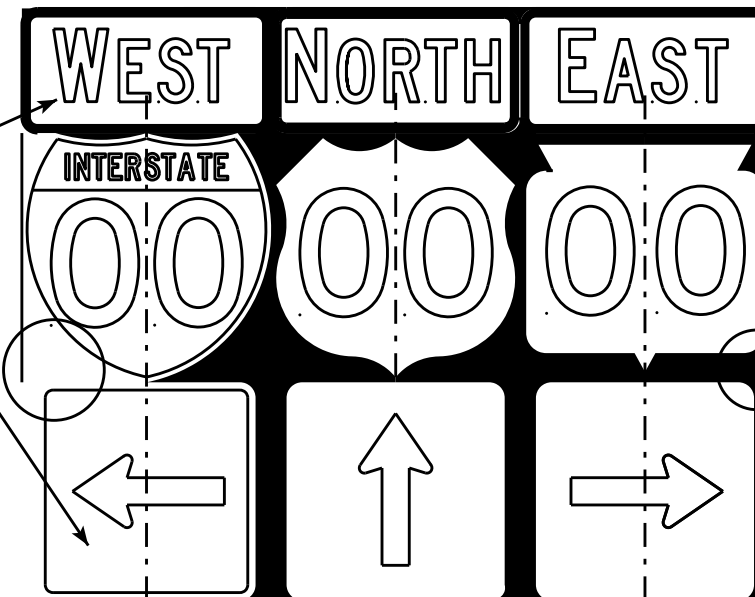
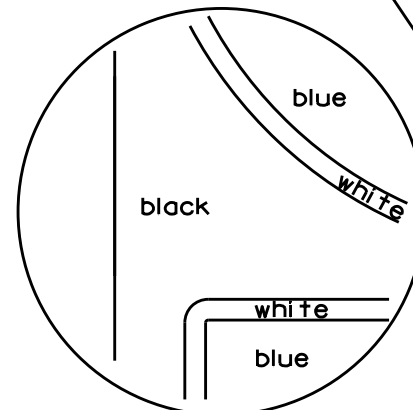
(Typical Vertical J-Assembly
See Note 10 and 11)



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.

PROJECT NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN

PLOT DATE : 06-FEB-2014 14:10

PLOT BY : mscs.ja

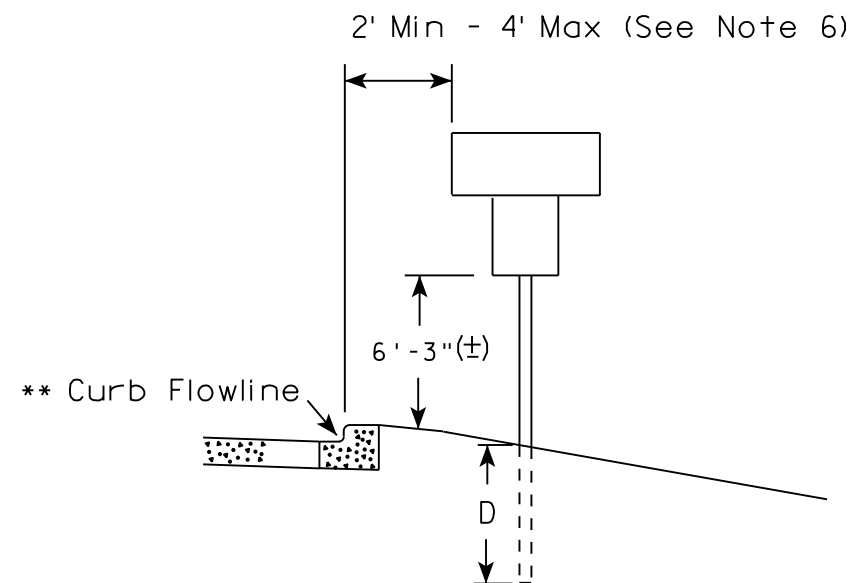
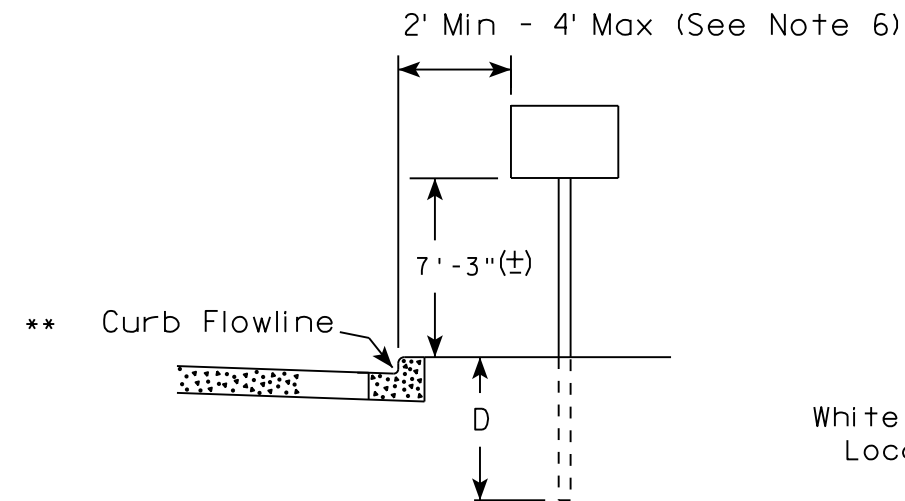
PLOT NAME :

SHEET NO:

E

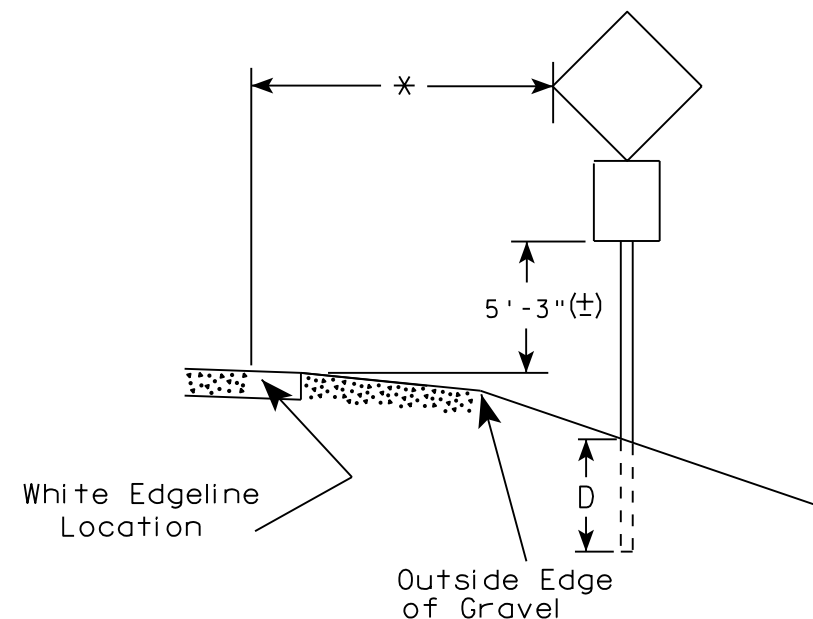
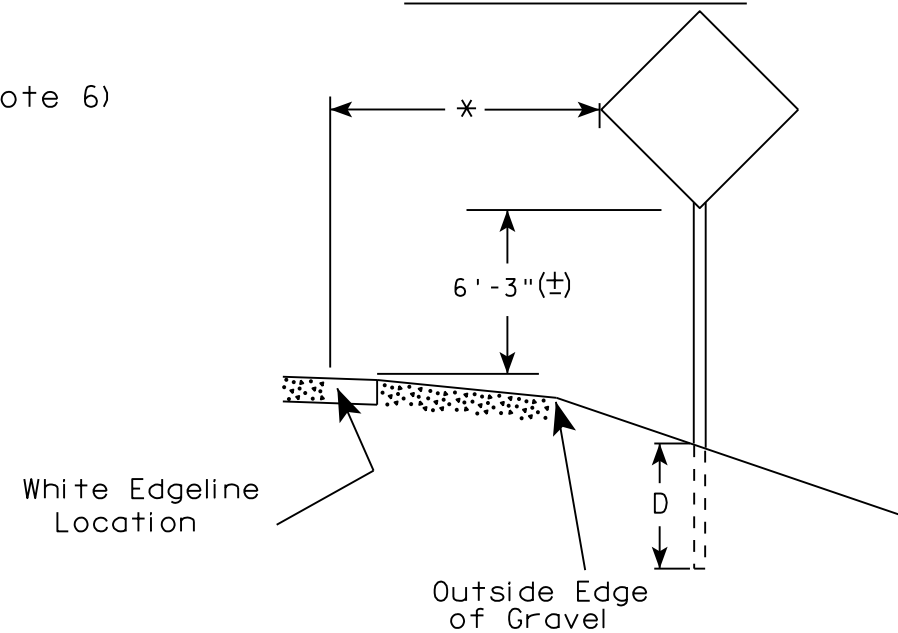
WISDOT/CADDs SHEET 42

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

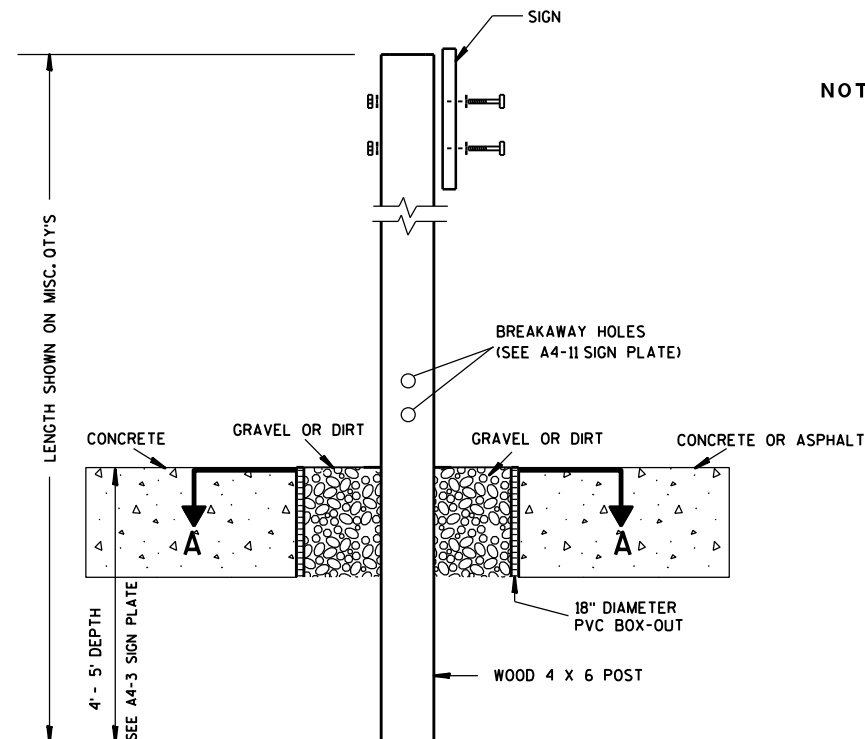
1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies 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

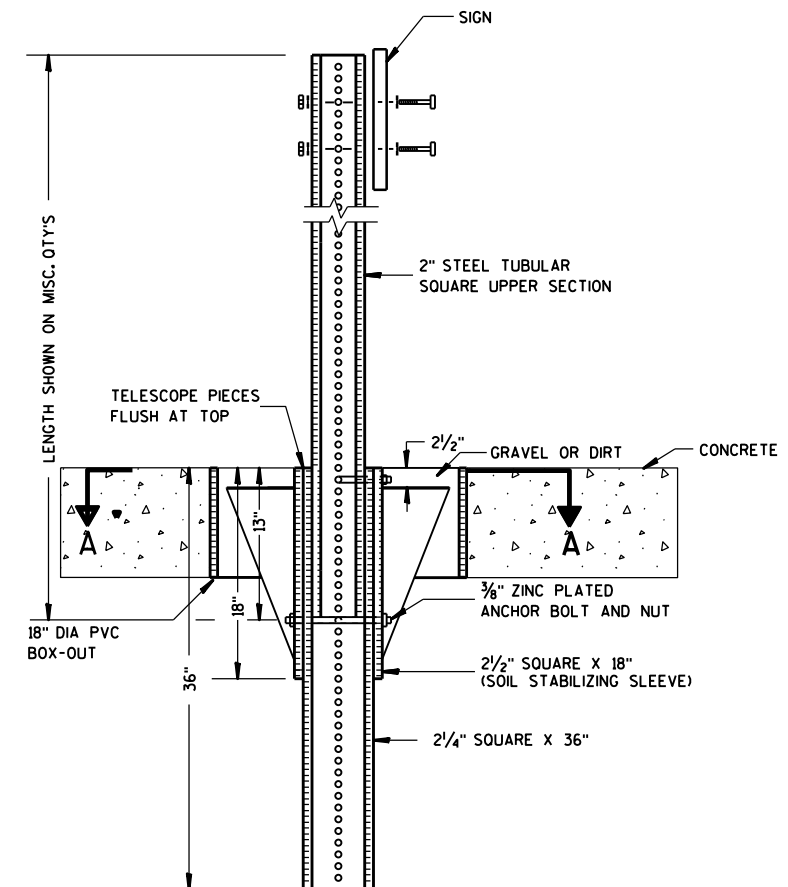
DATE 8/21/17 PLATE NO. A4-3.21



ELEVATION VIEW

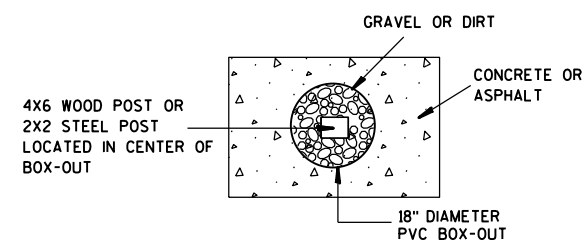
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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

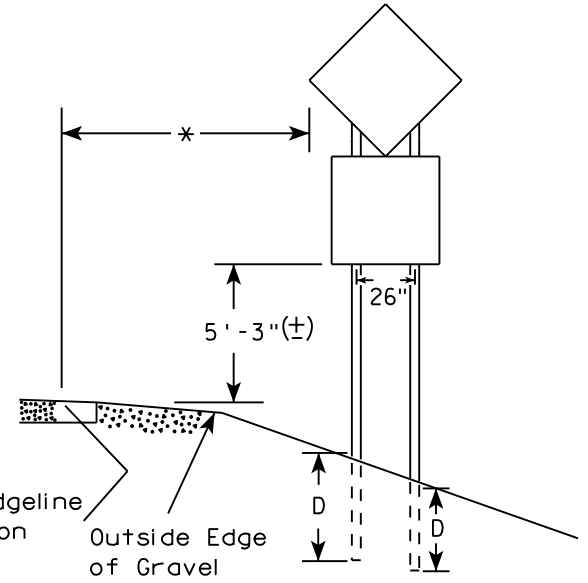
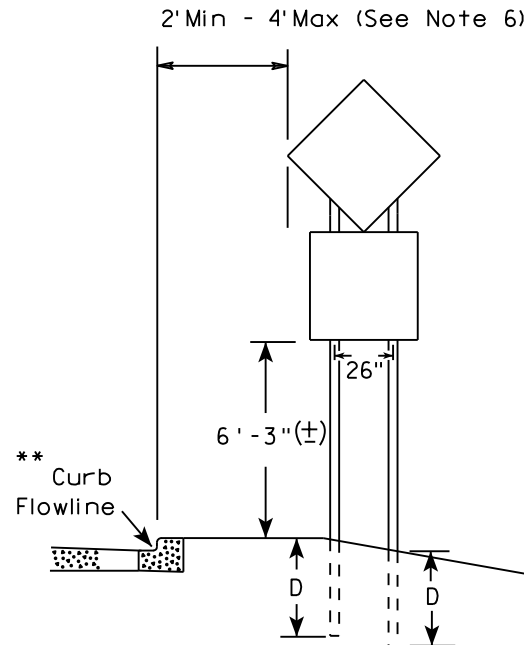
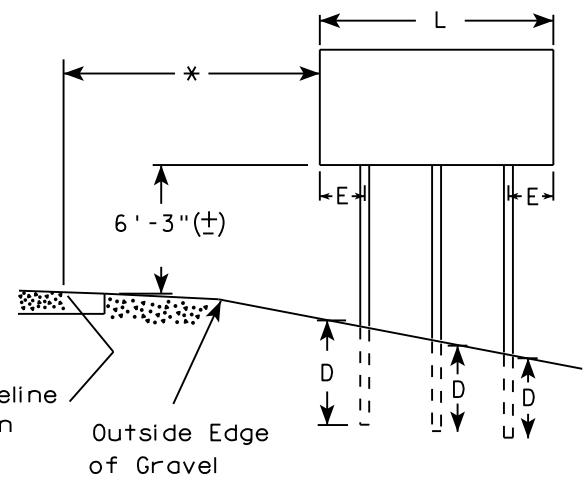
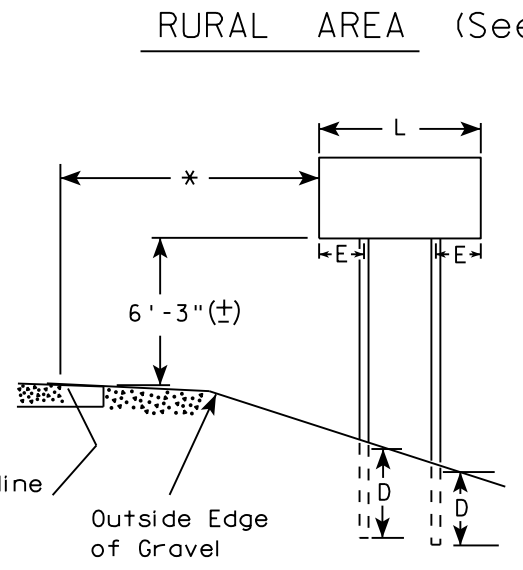
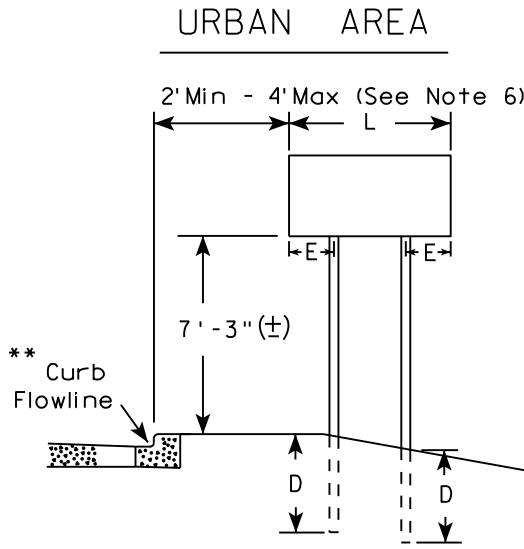
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



48" DIAMOND WARNING SIGN

48" DIAMOND WARNING SIGN

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

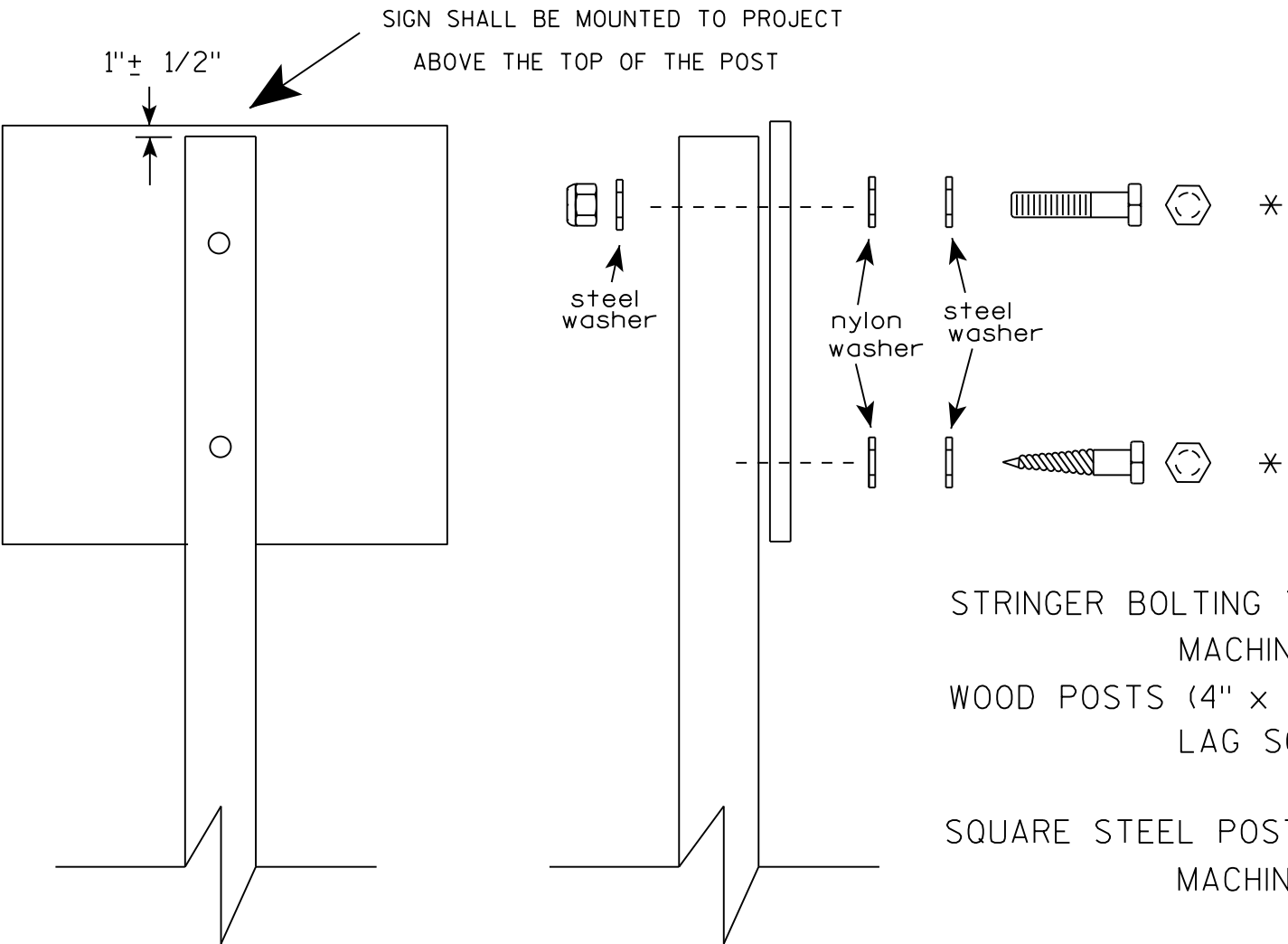
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

- 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.



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.

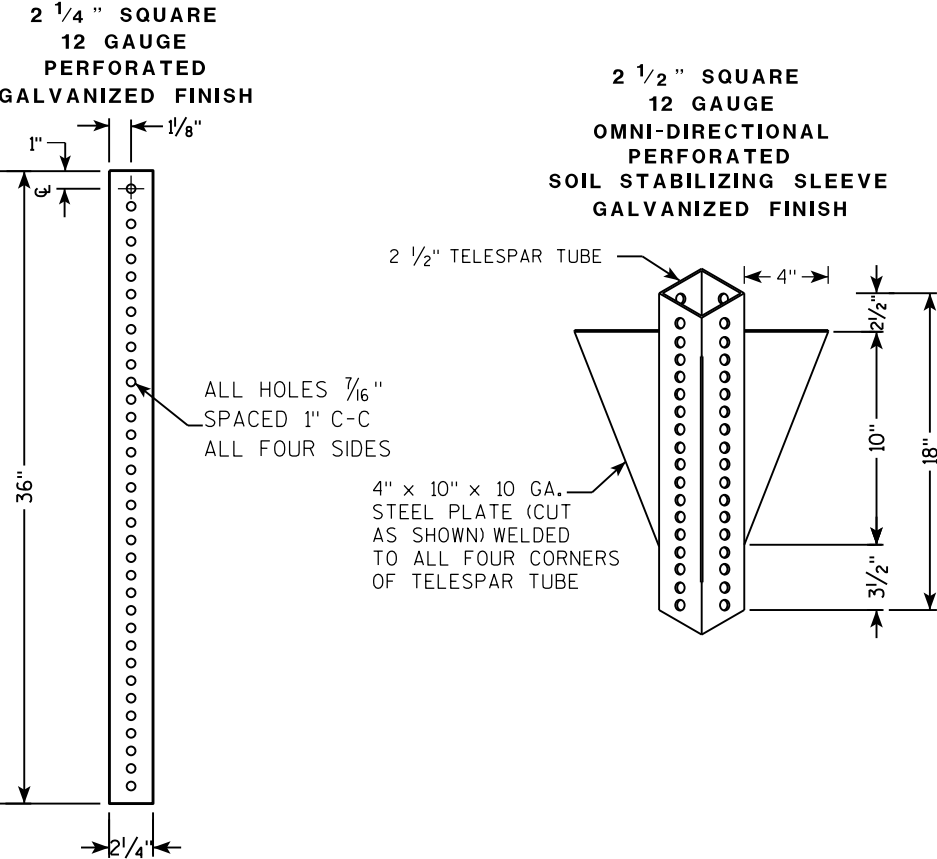
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- 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

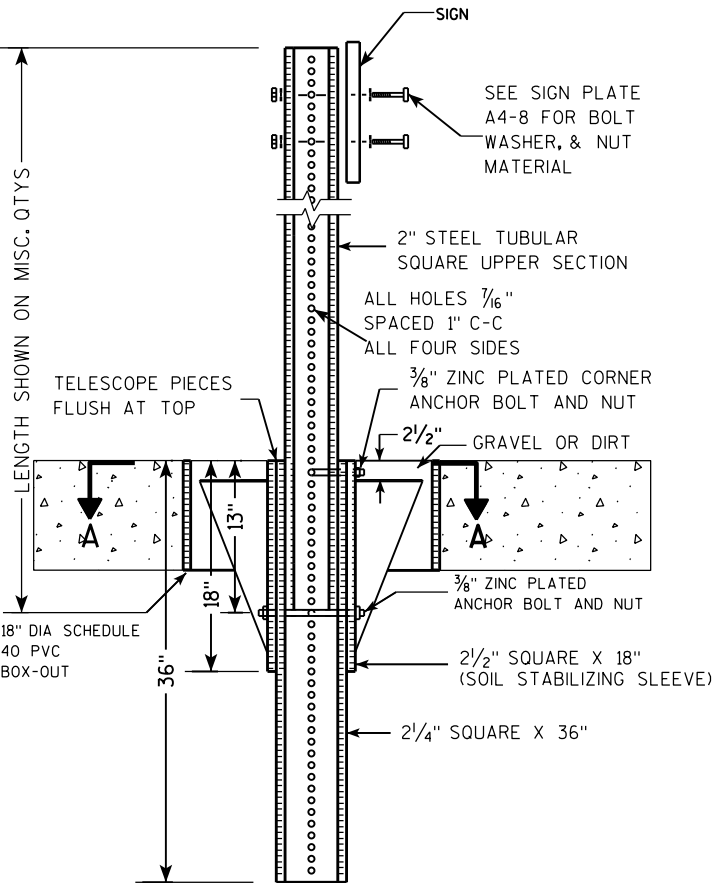
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require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

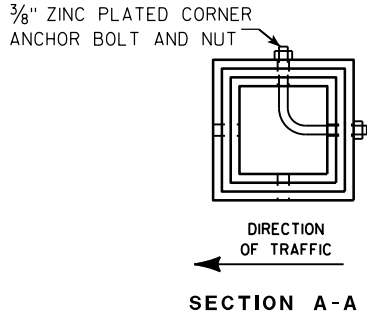
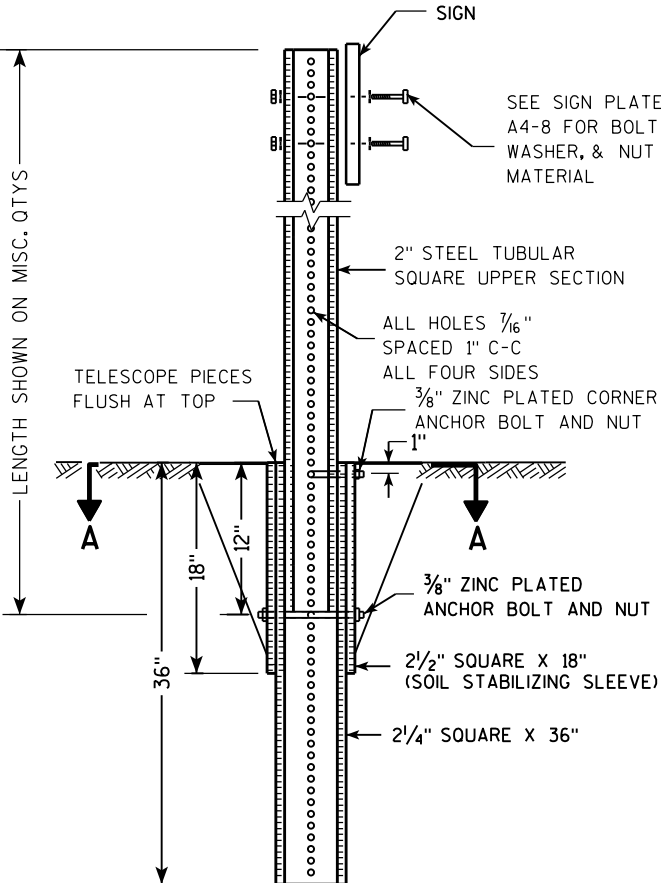
TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM



DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)



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

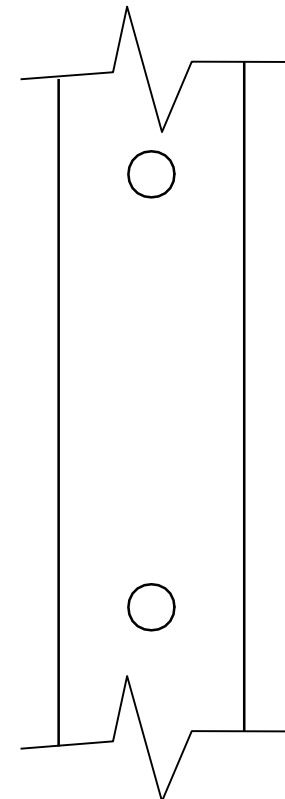
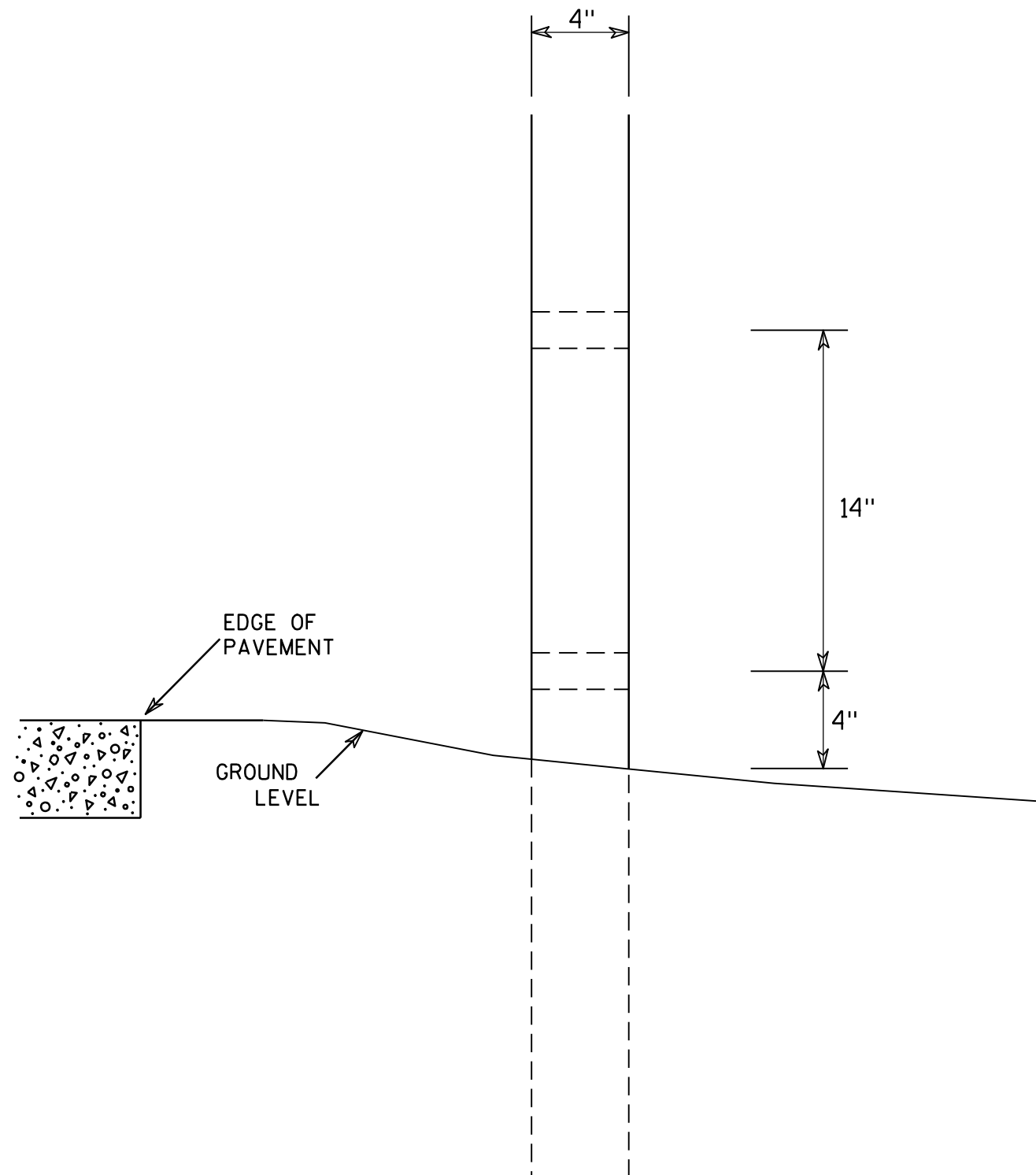
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1 1/2" diameter holes drilled perpendicular to the roadway centerline.

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

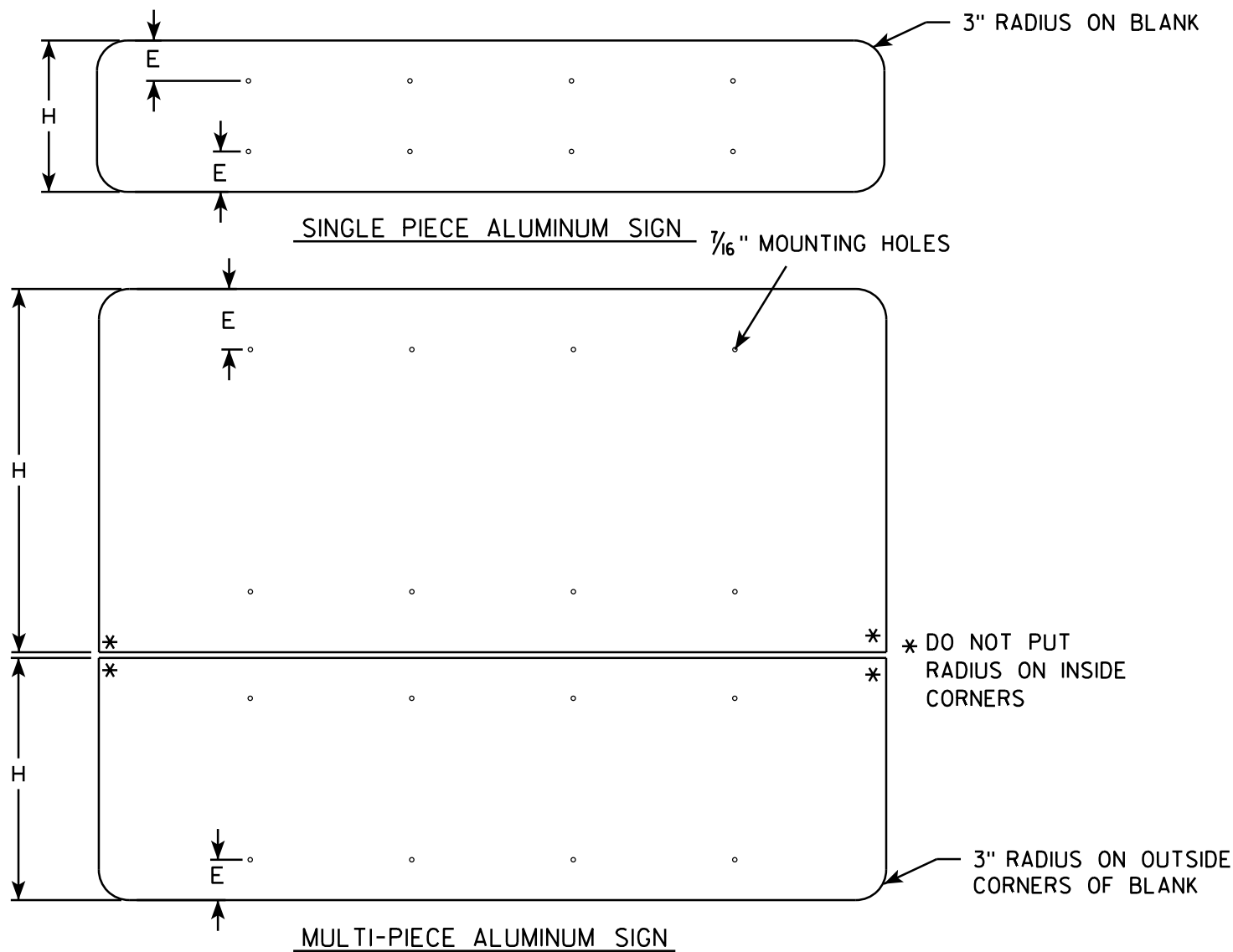
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

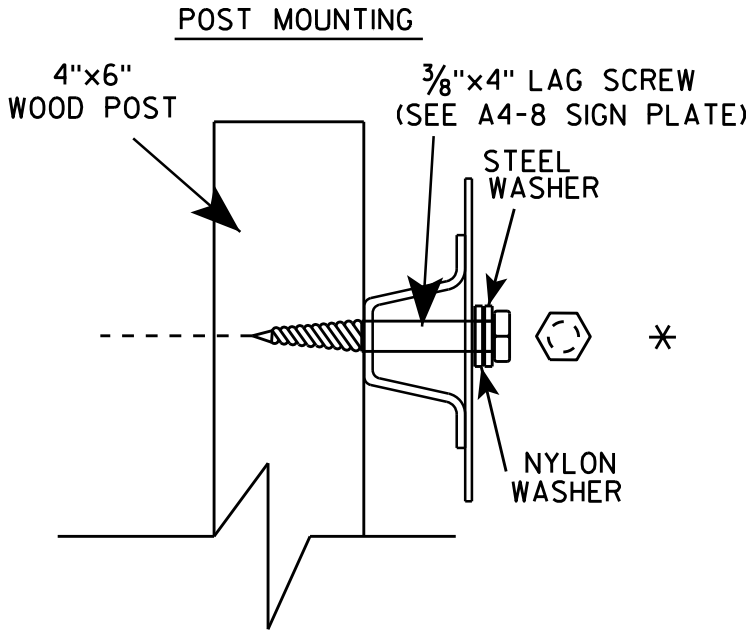
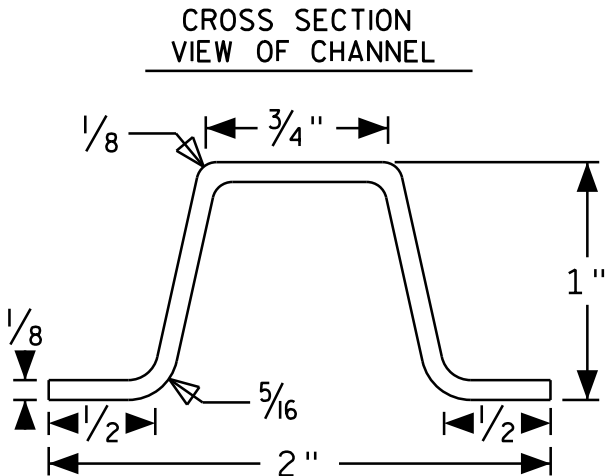
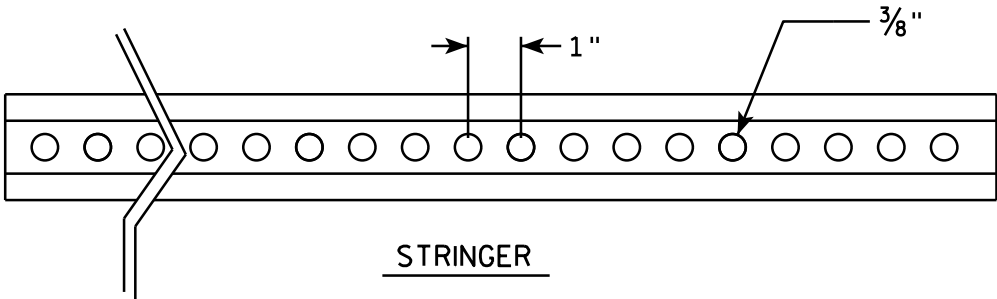
E



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

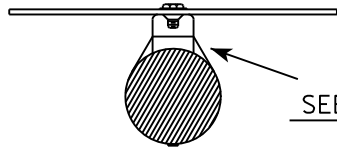
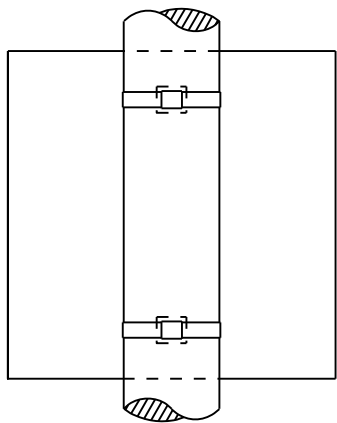
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

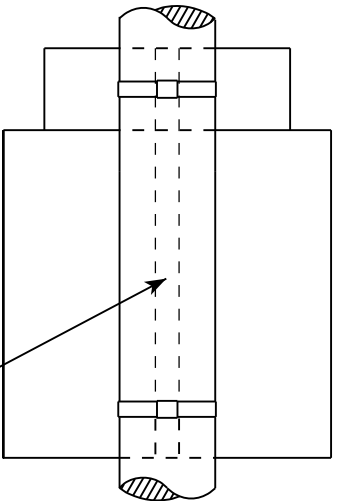
BANDING

SINGLE SIGN

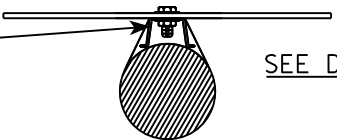


SEE DETAIL A

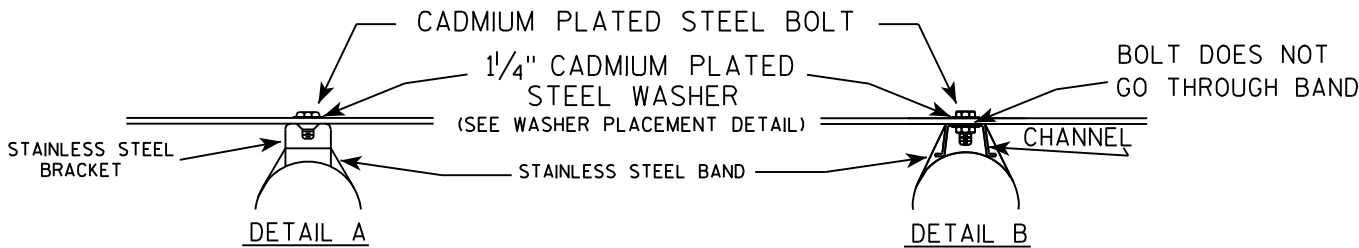
"J" ASSEMBLY



CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET



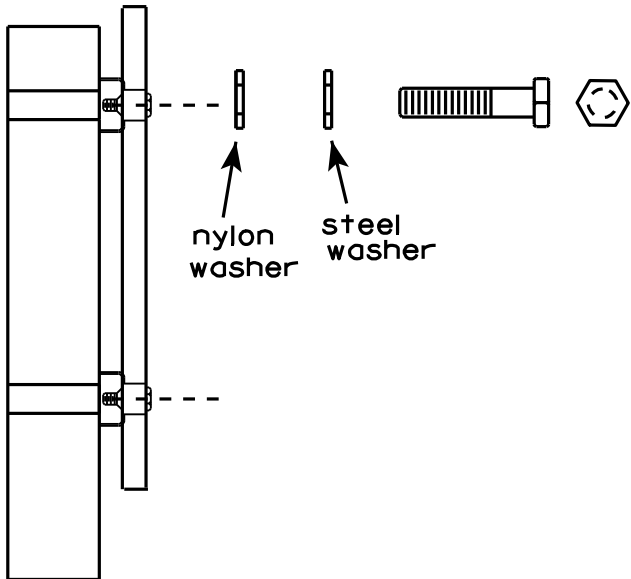
SEE DETAIL B



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



nylon washer

steel washer

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

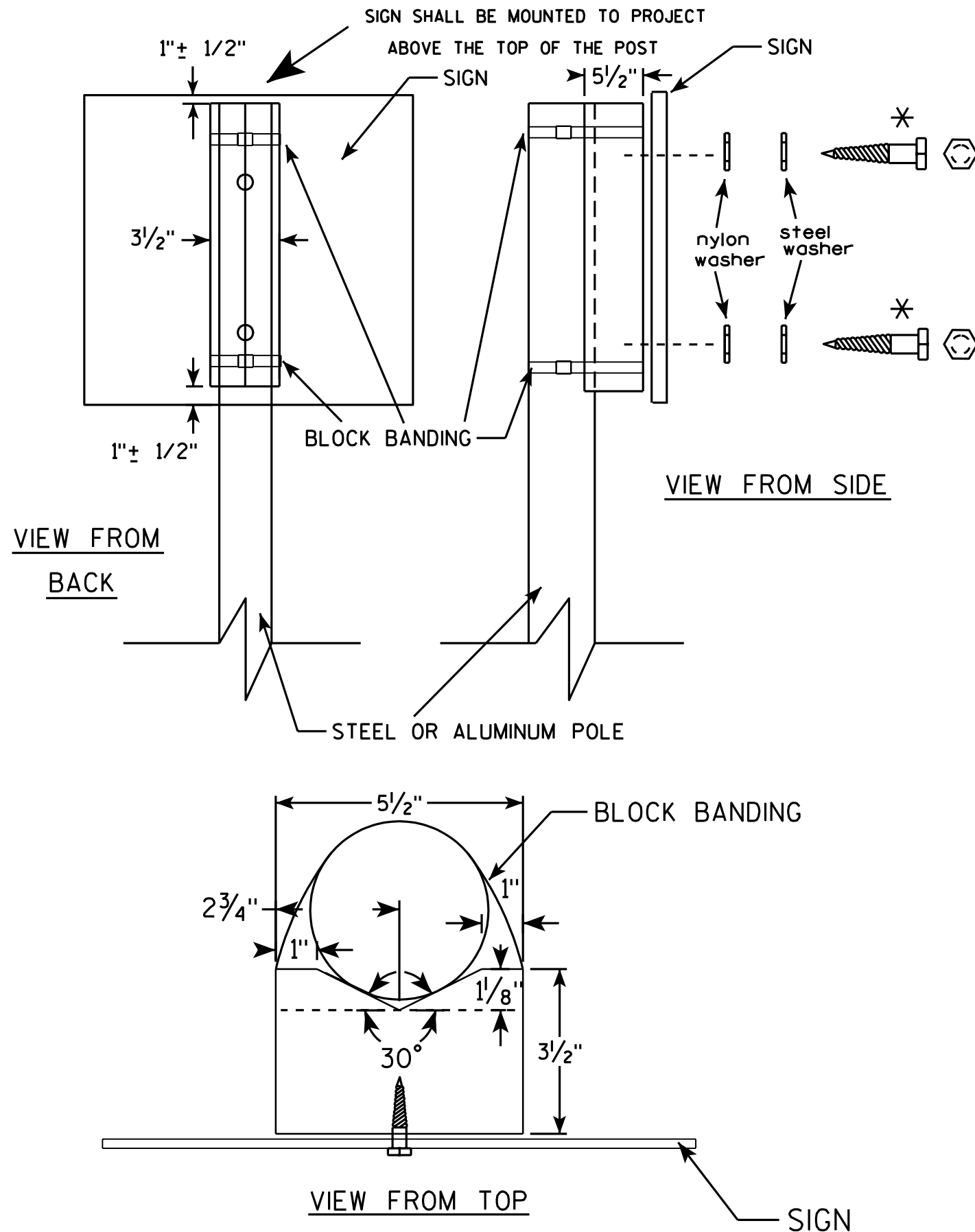
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



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

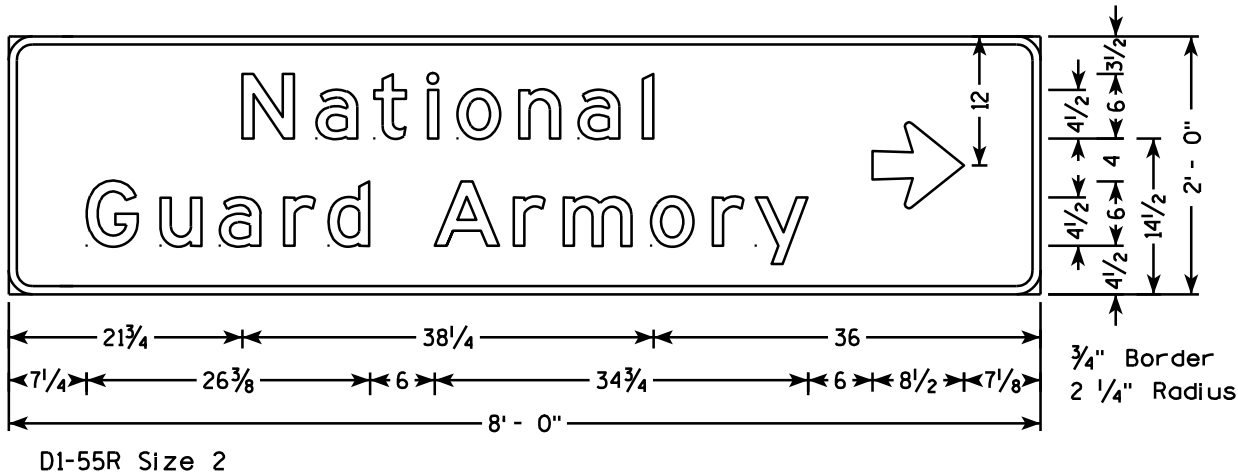
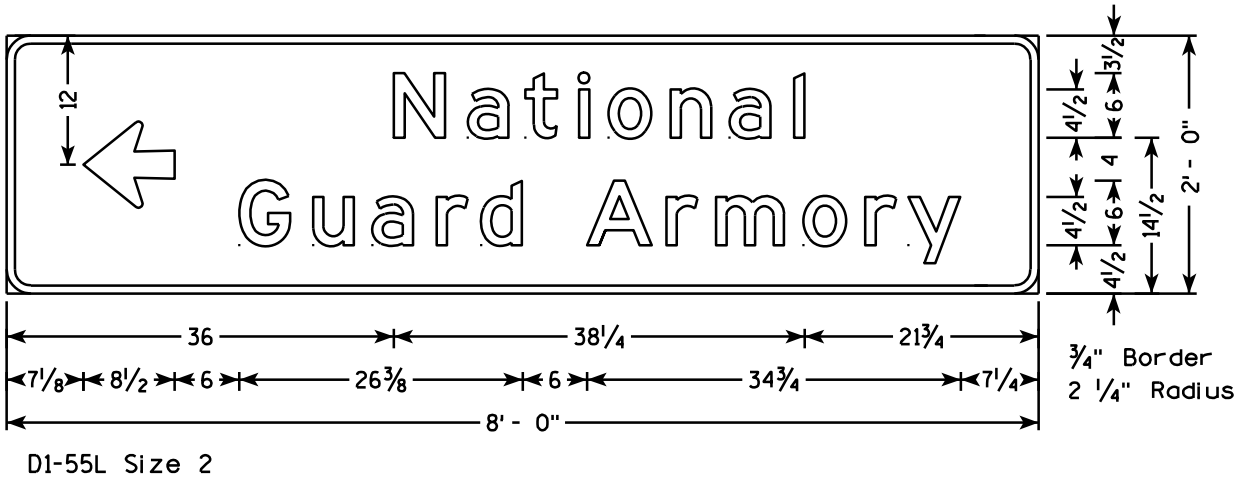
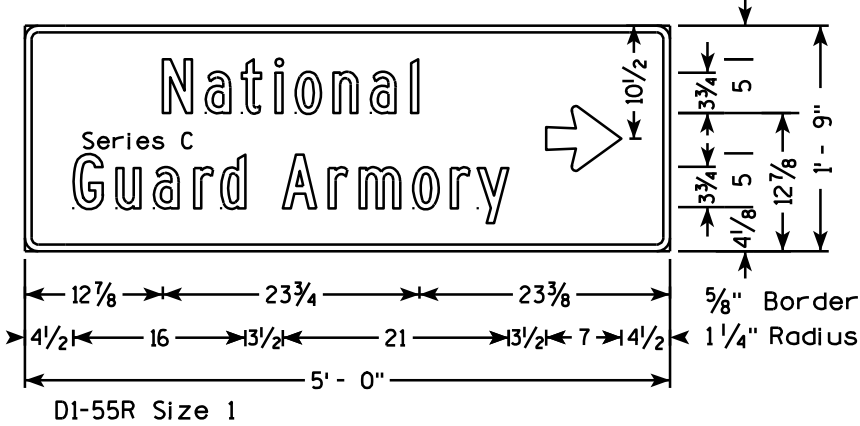
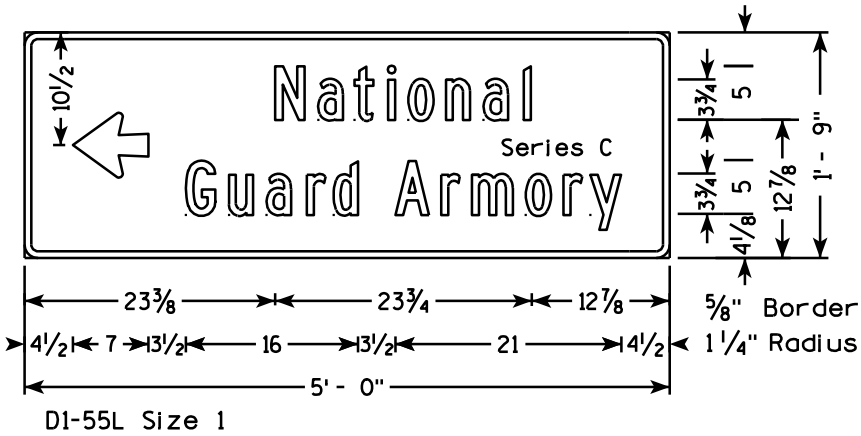
PROJECT NO:

SHEET NO:

E

NOTES

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

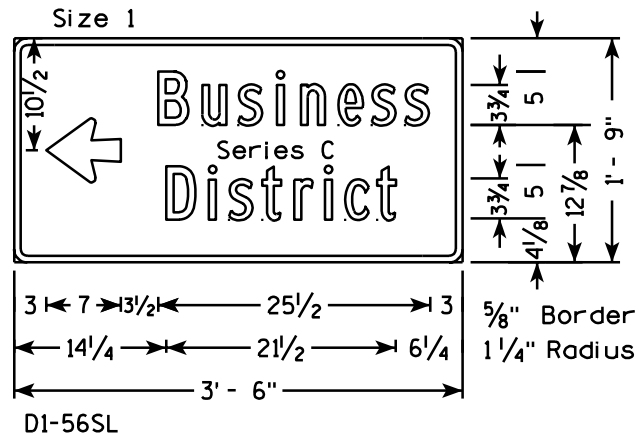
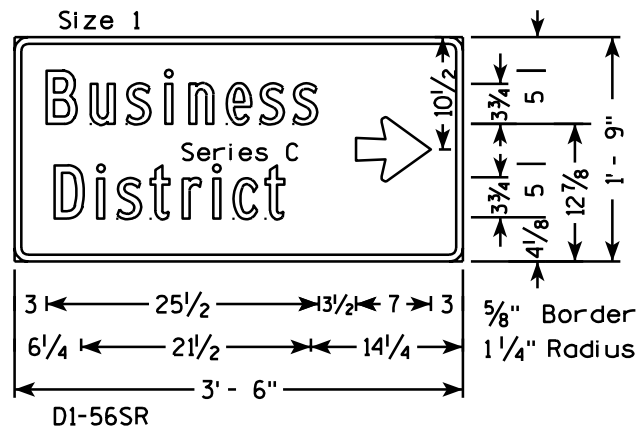


TYPICAL STANDARD
D1-55L & R

WISCONSIN DEPT OF TRANSPORTATION

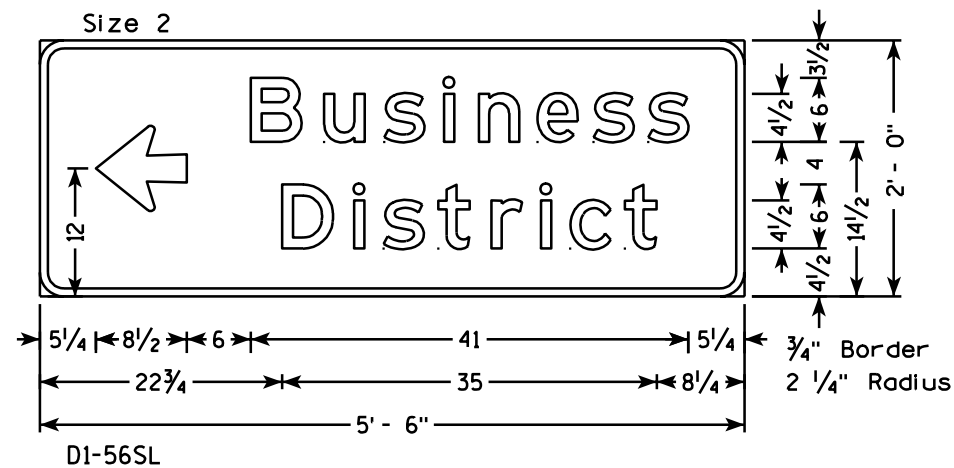
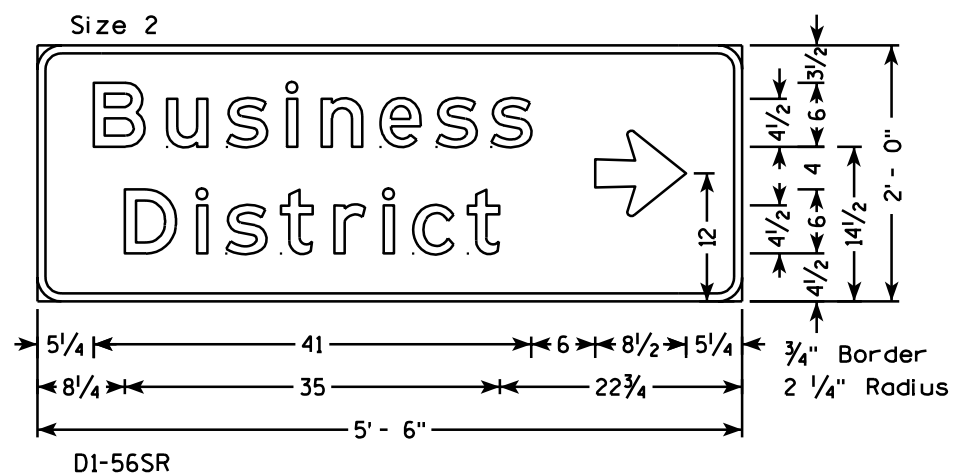
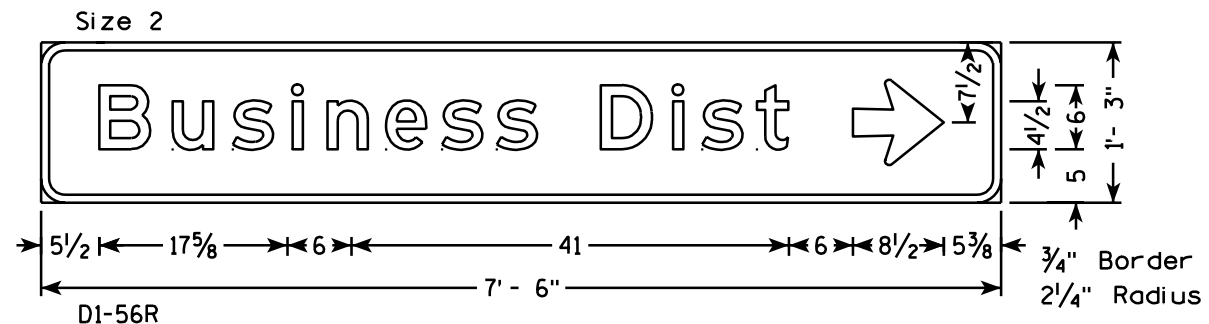
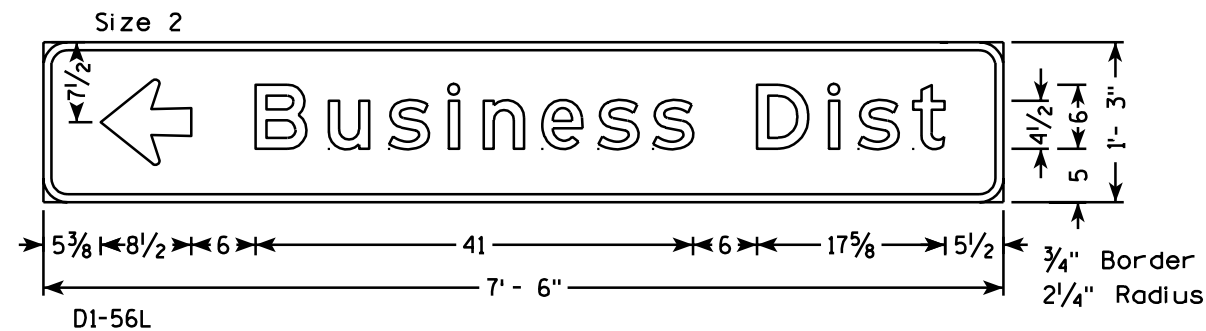
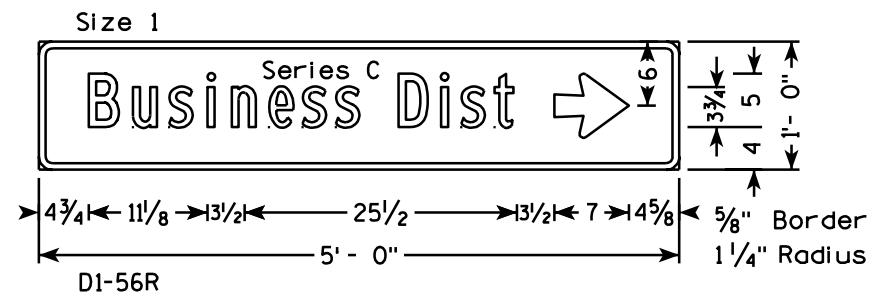
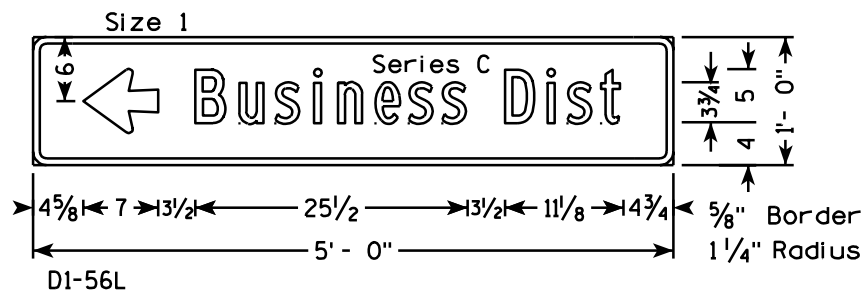
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 03/21/13 PLATE NO. D1-55L.2



NOTES

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



TYPICAL STANDARD
D1-56L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/19/08 PLATE NO. D1-56.1

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Brown
Message - White - Type H Reflective
3. Message Series - D
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 site name and optically adjust spacing as required to achieve proper balance. When necessary to accommodate name, lengthen board by 6" (150 mm) increments. Minimum board width is 90" (2250 mm).



D5-65

Metric equivalent
for this sign is:

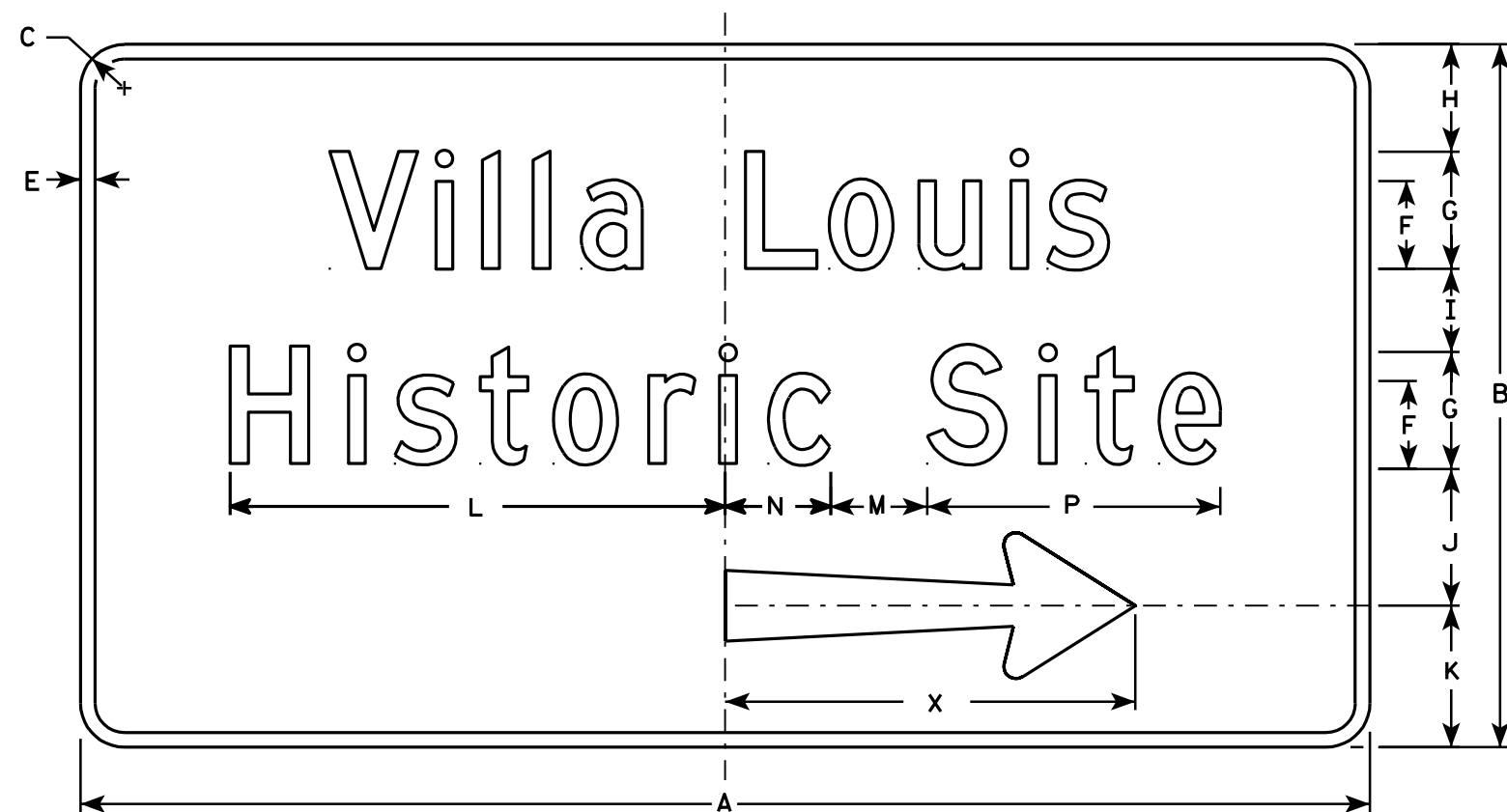
SIZE	
1	
2	Varies mm X 900 mm
3	
4	
5	

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 sq.
1																												
2	varies	36	2 1/4		3/4	4 1/2	6	5	5 1/2	4 1/4	25 3/8	5 3/8		15	1 1/4	4 3/8	10 5/8										Varies	Varies
3																												
4																												
5																												

STANDARD SIGN
D5-65

WISCONSIN DEPT OF TRANSPORTATION

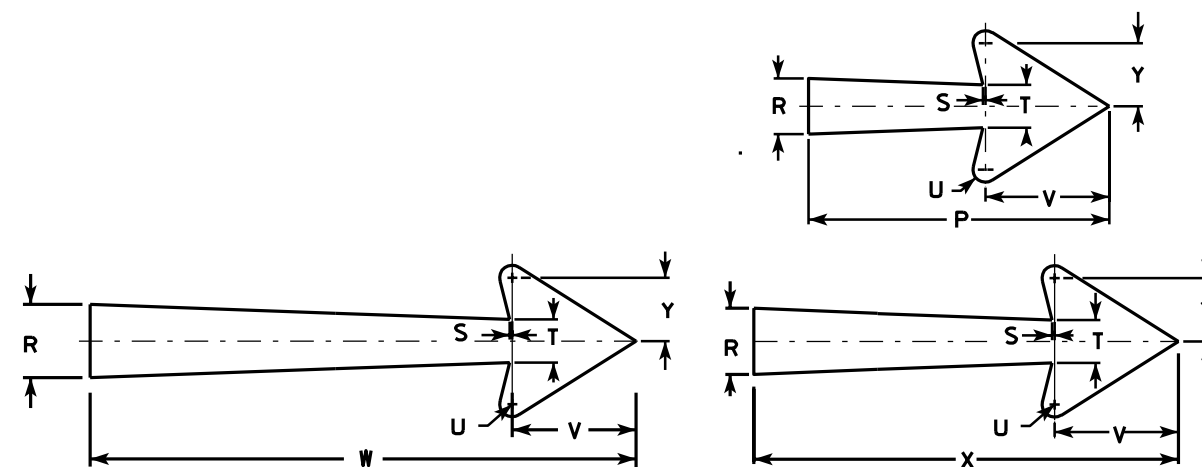
APPROVED
Matthew R. Rauch
For State Traffic Engineer
DATE 3/09/07 PLATE NO. D5-65.6



D5-66R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Brown
Message - White - Type H Reflective
3. Message Series - D
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 site name and optically adjust spacing as required to achieve proper balance. When necessary to accommodate name, lengthen board by 6" increments.
6. D5-66L is the same as D5-66R except arrow is reversed.
7. Use 15" arrow (dimension P) for 54" signs. Use 21" arrow (dimension W) for lengths of 60" to 72". Use 27" arrow (dimension W) for all signs 78" and longer.



Arrow Details

Metric equivalent for this sign is:

SIZE	
1	
2	Varies mm X 900 mm
3	
4	
5	

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 sq. m.
1																												
2	varies	36	2 1/4		3/4	4 1/2	6	5 1/2	4 1/4	7	7 1/4	25 3/8	5	5 3/8		15		2 3/4	1/8	2 1/8	5/8	6 1/8	27	21	3 1/8		Varies	Varies
3																												
4																												
5																												

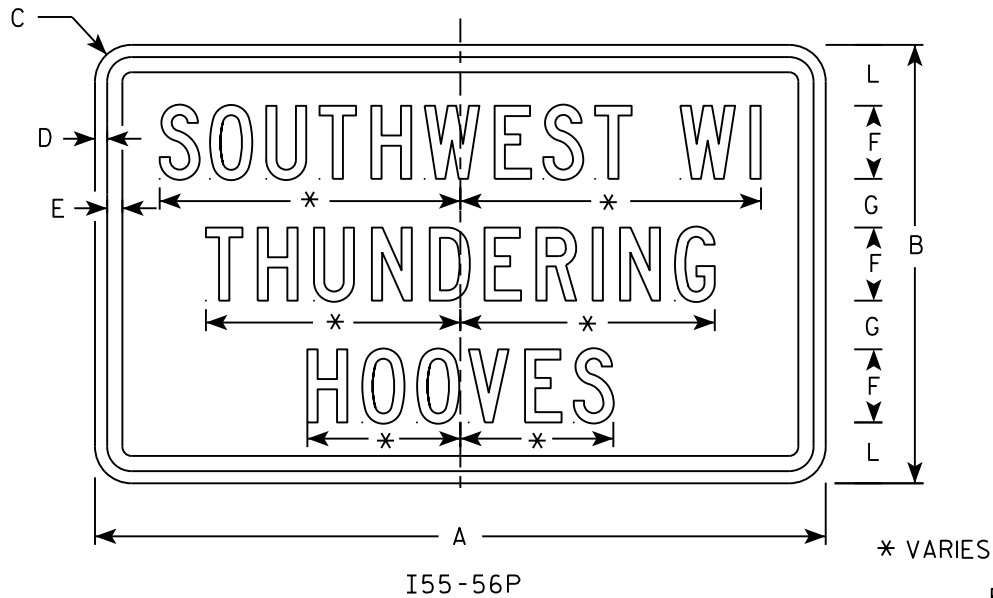
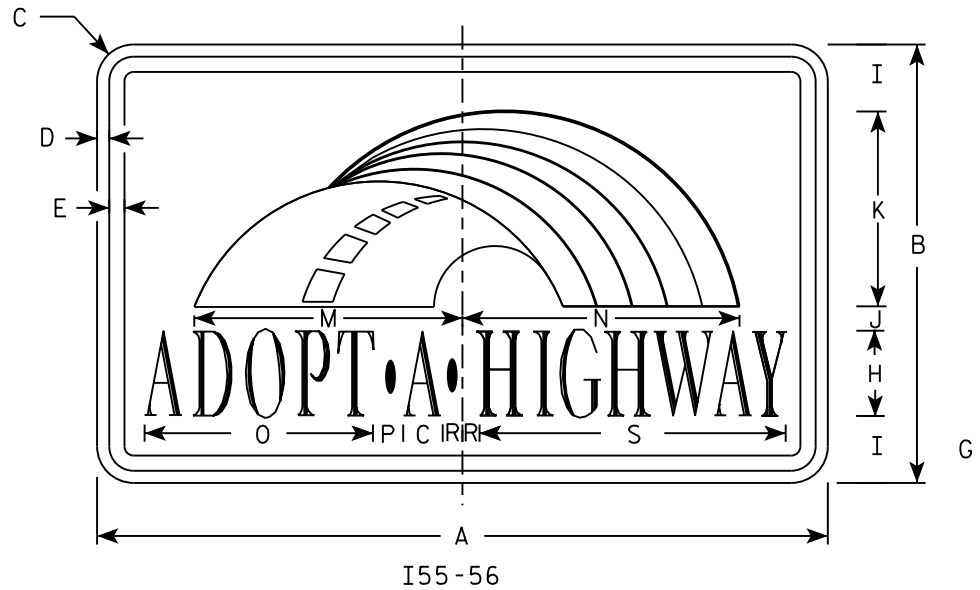
STANDARD SIGN D5-66

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 3/09/07 PLATE NO. D5-66.5

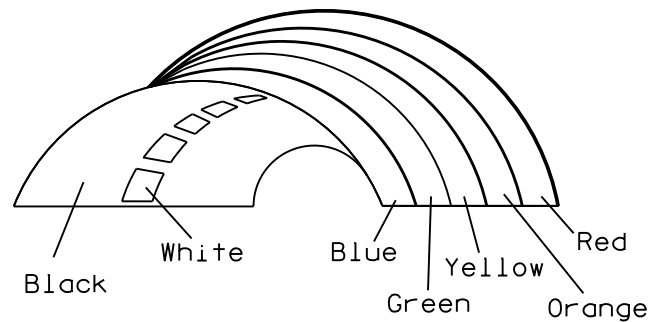
PROJECT NO:

SHEET NO:

E



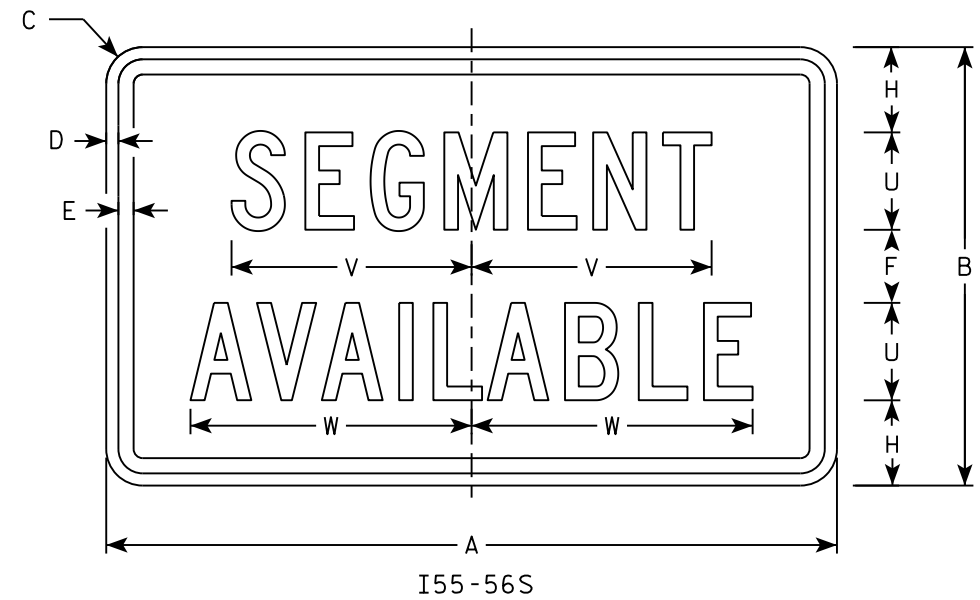
Background Colors of Symbol*



*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

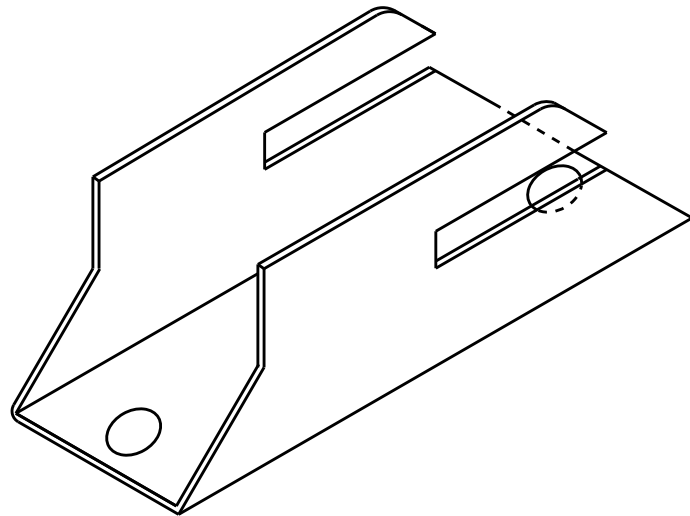
STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

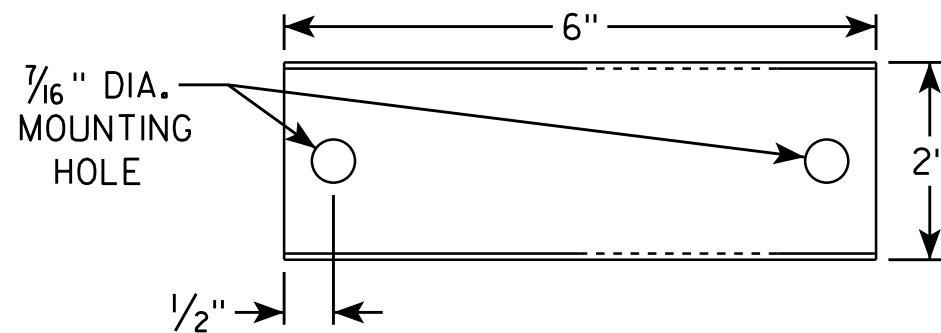
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

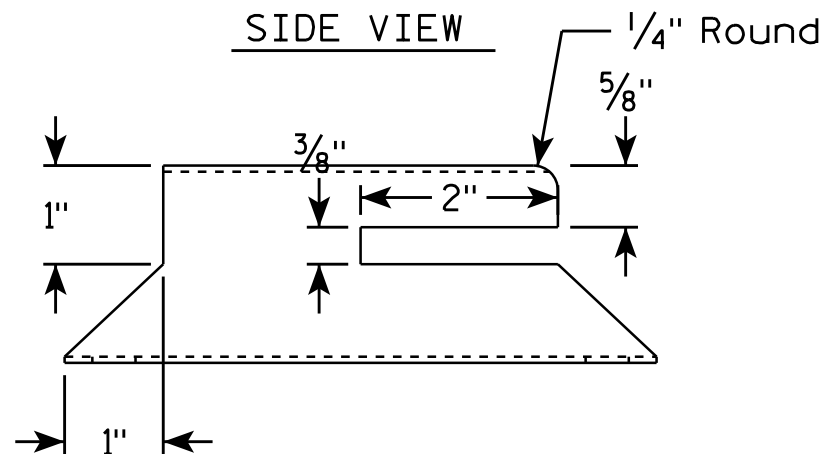
ISOMETRIC VIEW



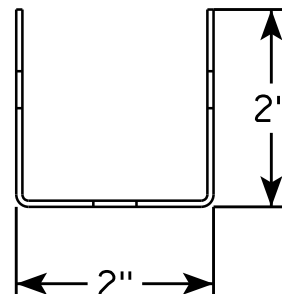
TOP VIEW



SIDE VIEW



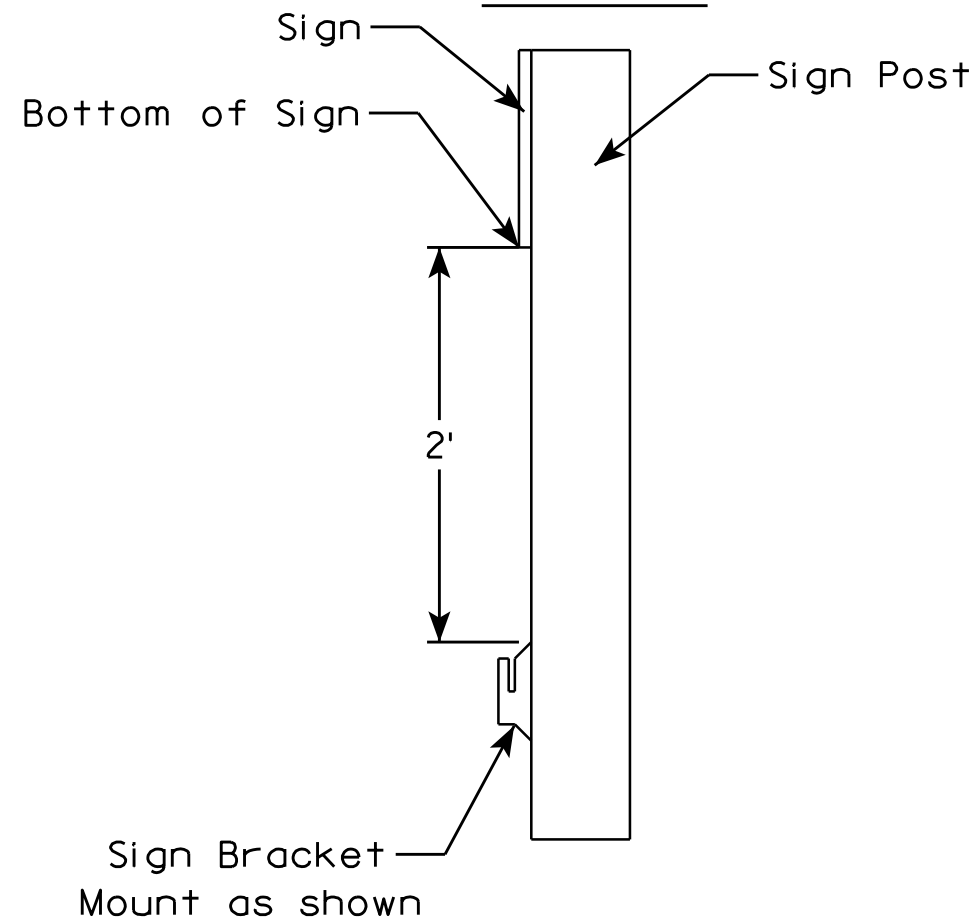
END VIEW



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:

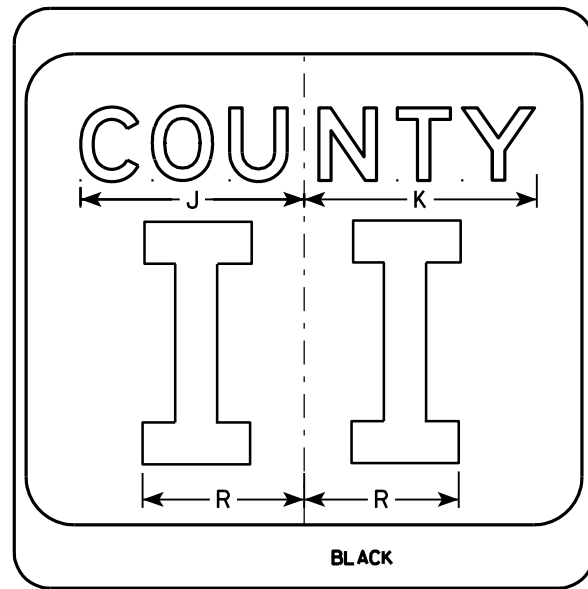
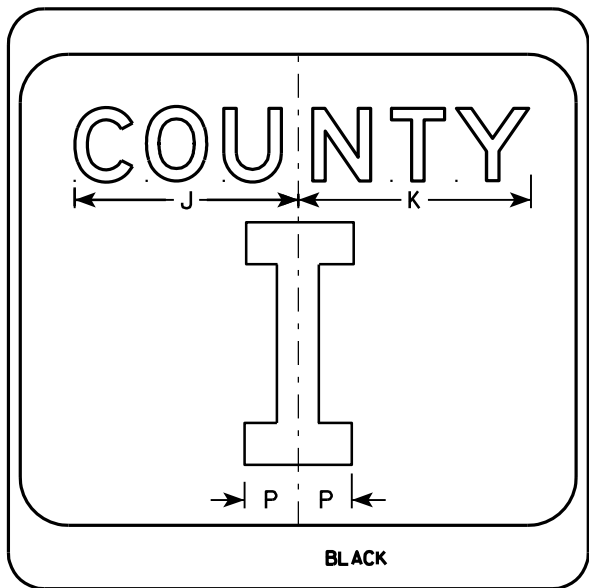
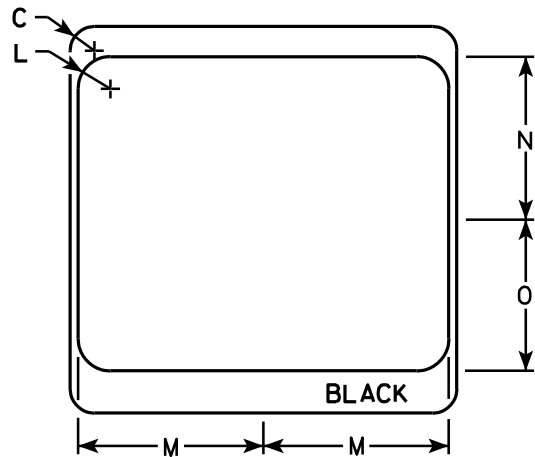
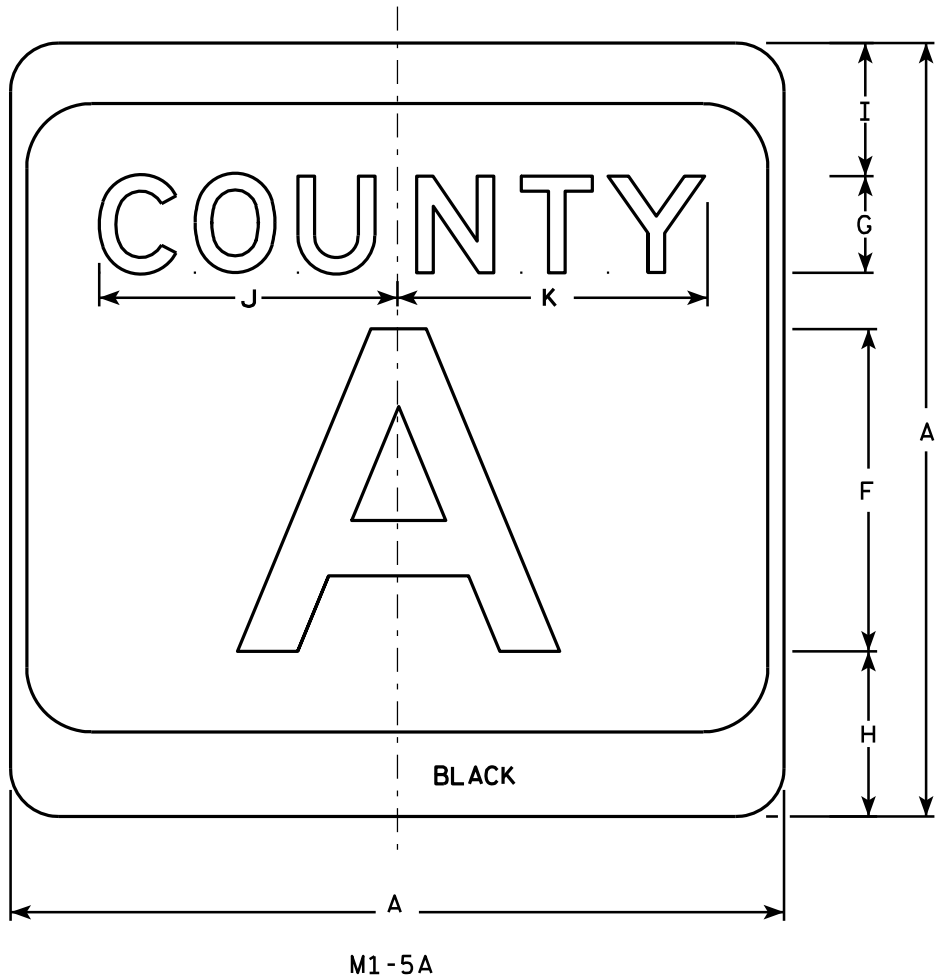
HWY:

COUNTY:

SHEET NO:

E

7



NOTES

- Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - White & Black - See Note 7
Message - Black
- Message Series - see Note 5
- 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.
- Message Series E for 1 letter.
Message Series D for 2 letters unless message is too big then Series C.
Message Series C for 3 letters unless message is too big then Series B.
- Substitute appropriate letters & optically center to achieve proper balance.
- Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective

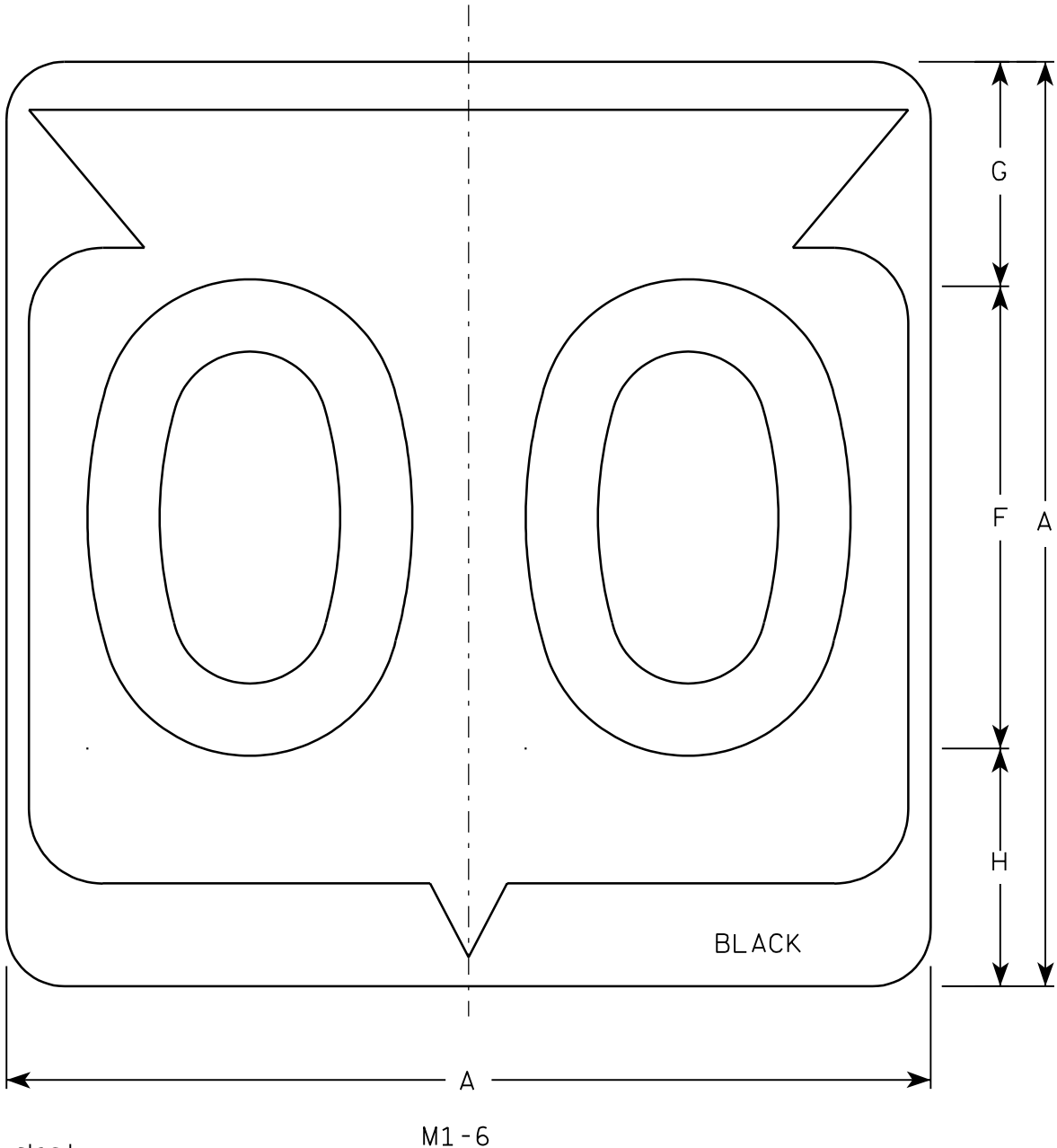
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER	
M1-5A FOR ASSEMBLIES	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 9/27/11	PLATE NO. M1-5A.8

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
-------------	------	---------	-----------	---

7

7



Metric equivalent
for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 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																												
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	.36
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	.81
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	.81
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	.81

PROJECT NO:

HWY:

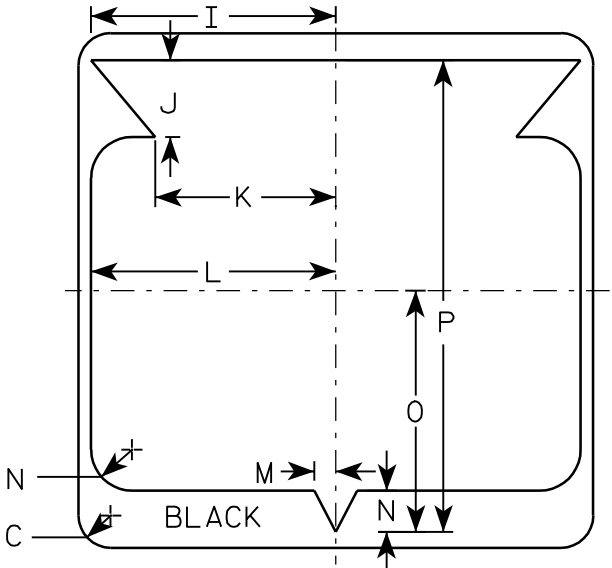
COUNTY:

SHEET NO:

E

NOTES

- Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - White & Black - See Note 6
Message - Black
- Message Series - See note 5
- 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.
- Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
- Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective



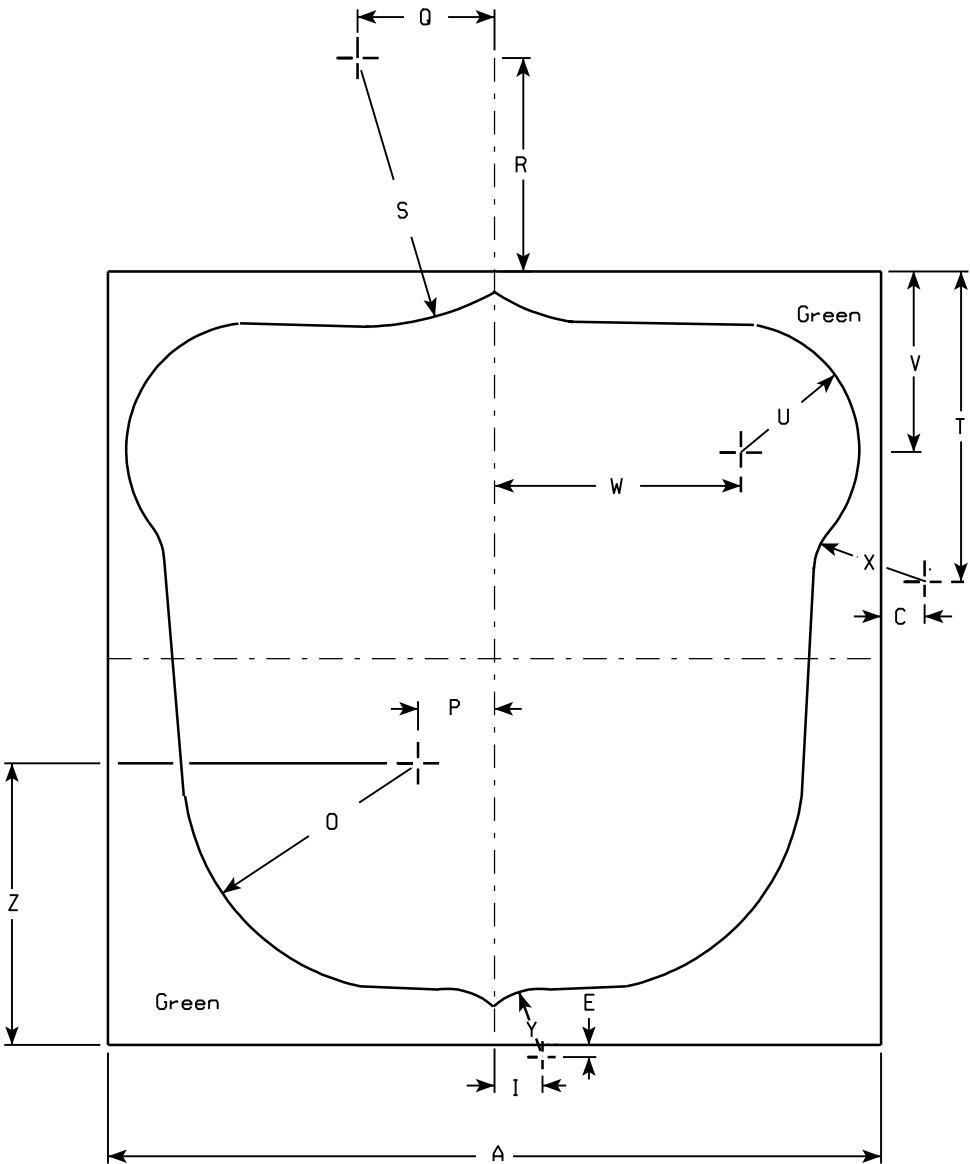
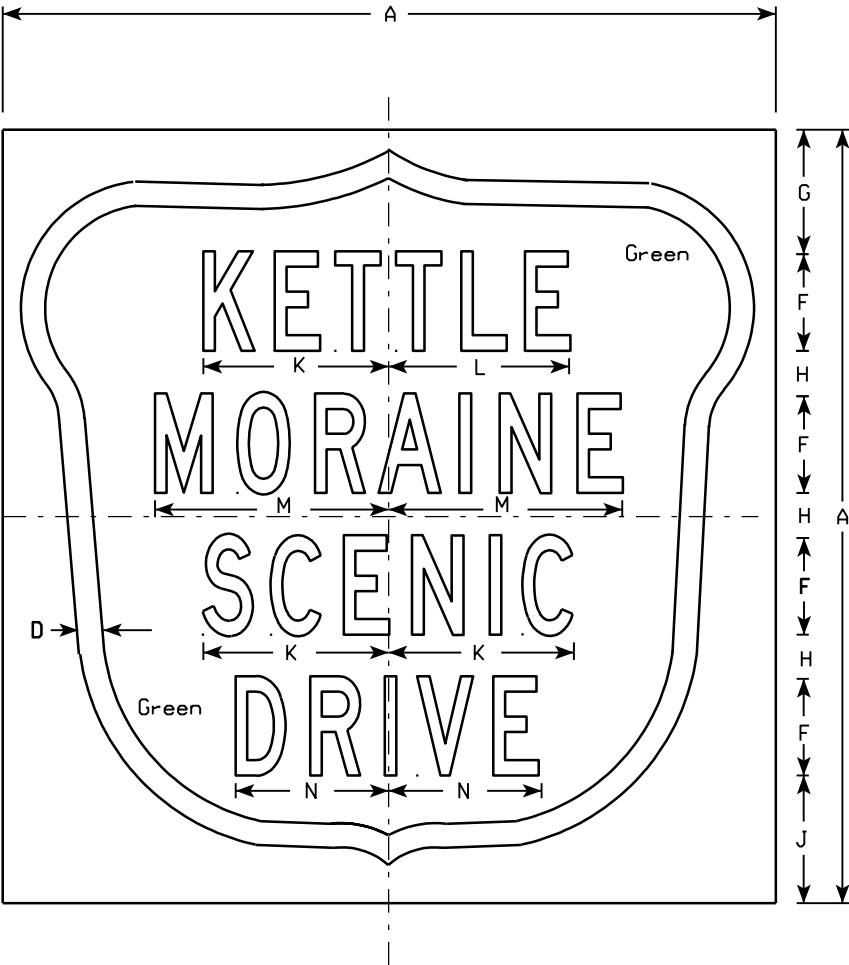
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Chester J. Spang
for State Traffic Engineer
DATE 3/20/02 PLATE NO. M1-6.9

NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Green
Message - White - Type H Reflective
- 3. Message Series - B
- 4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.



Metric equivalent
for this sign is:

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

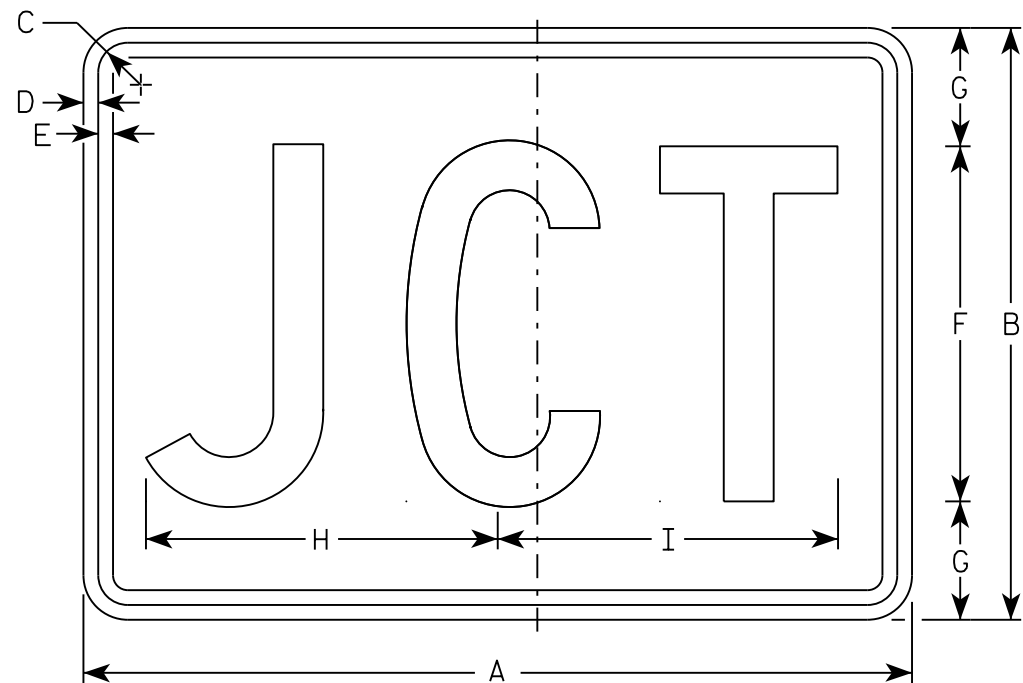
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 3⁄8	3⁄4	3⁄8	3	3 7⁄8	1 3⁄8	1 1⁄2	4	5 3⁄4	5 5⁄8	7 1⁄4	4 3⁄4	7 1⁄4	2 3⁄8	4 1⁄4	6 5⁄8	8 1⁄2	9 5⁄8	3 7⁄8	5 5⁄8	7 5⁄8	3 1⁄2	2 1⁄8	8 3⁄4	4.00	0.36
3																												
4	36		1 1⁄2	1 1⁄8	3⁄4	5	5 1⁄4	1 5⁄8	2 1⁄4	5 7⁄8	9 1⁄8	9	11 3⁄4	7 3⁄8	10 3⁄4	3 5⁄8	6 3⁄8	9 7⁄8	14 1⁄8	14 3⁄8	5 3⁄4	8 3⁄8	11 3⁄8	5 1⁄8	3 1⁄2	13 1⁄8	9.00	0.81
5																												

STANDARD SIGN
M1-97

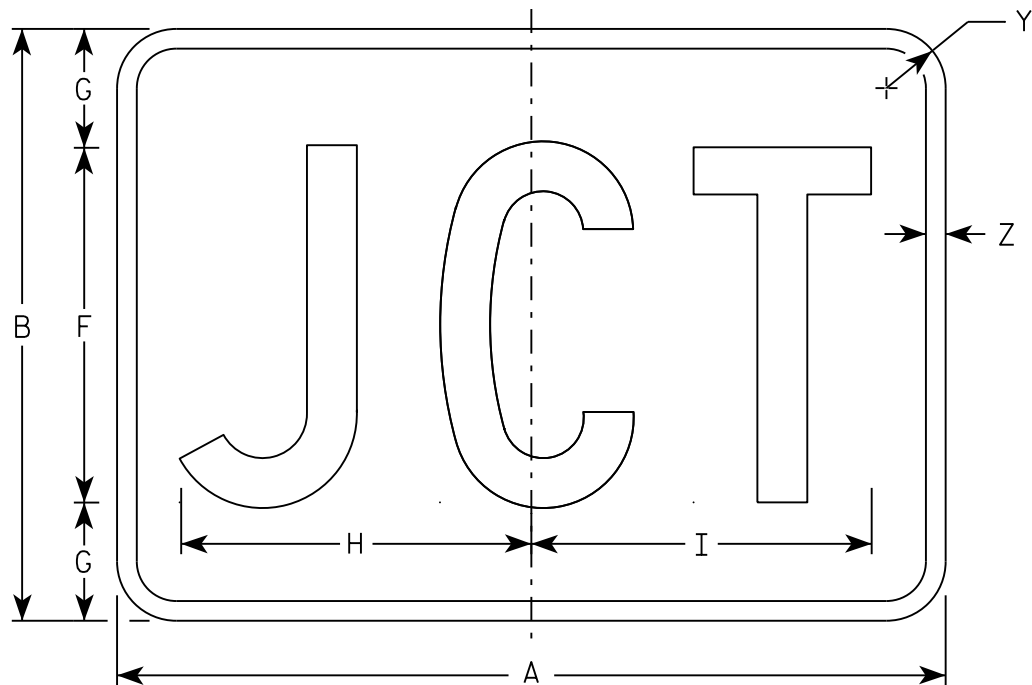
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Chetan J. Spang
for State Traffic Engineer

DATE 1/30/02 PLATE NO. M1-97.2



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

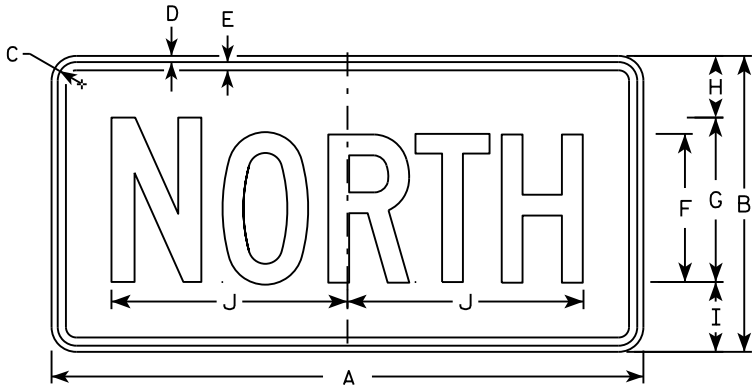
APPROVED

Matthew R. Rauch

For State Traffic Engineer

DATE 10/15/15

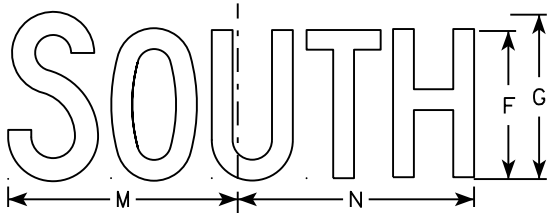
PLATE NO. M2-1.12



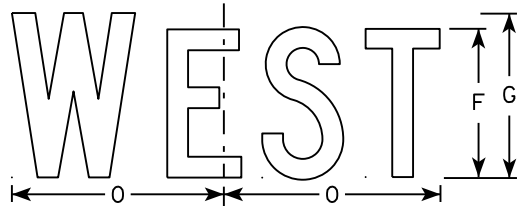
M3-1
MM3-1
MP3-1



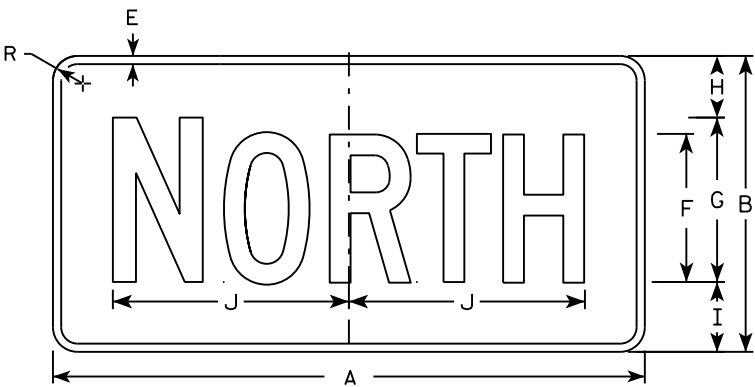
M3-2
MM3-2
MP3-2



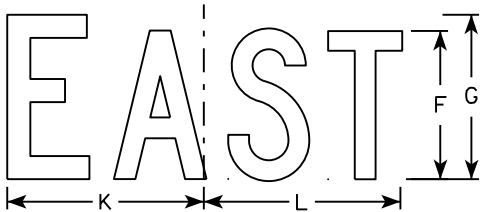
M3-3
MM3-3
MP3-3



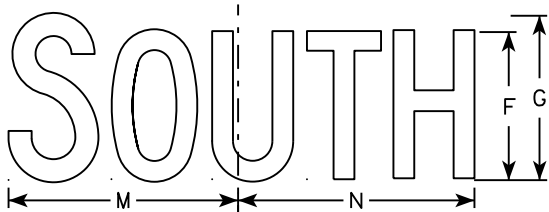
M3-4
MM3-4
MP3-4



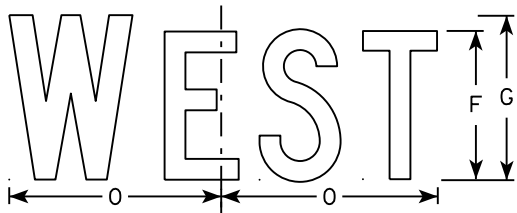
MB3-1
MK3-1
MN3-1



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.

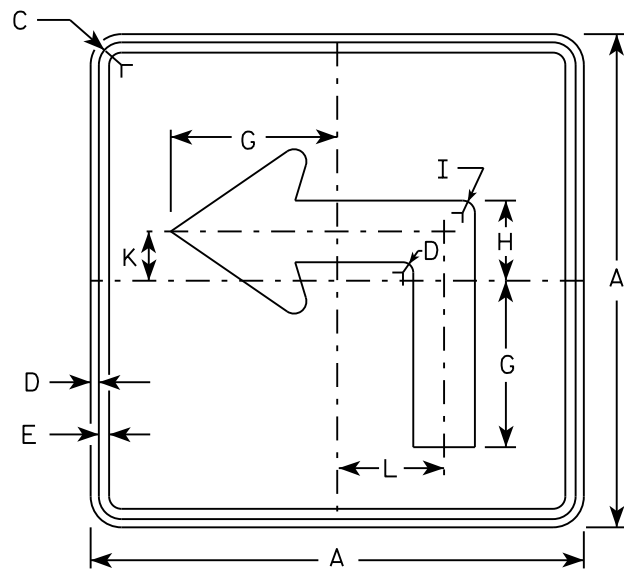
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8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

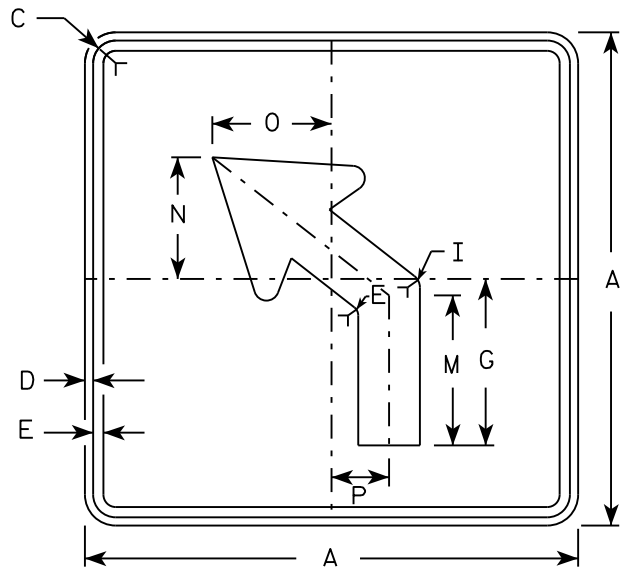
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

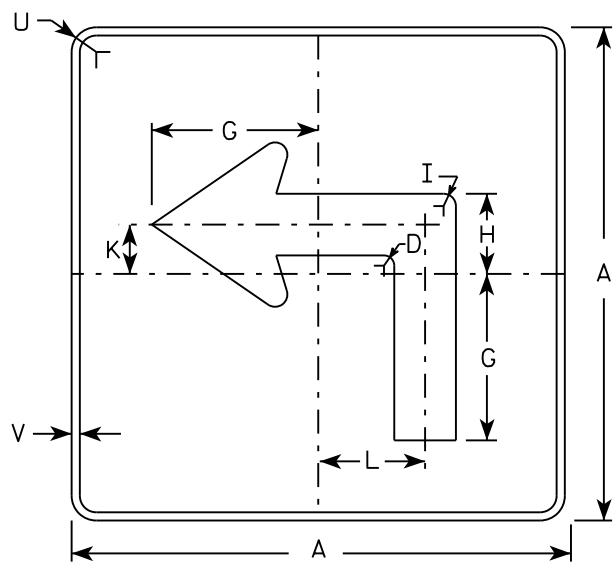
DATE 10/15/15 PLATE NO. M3-1.14



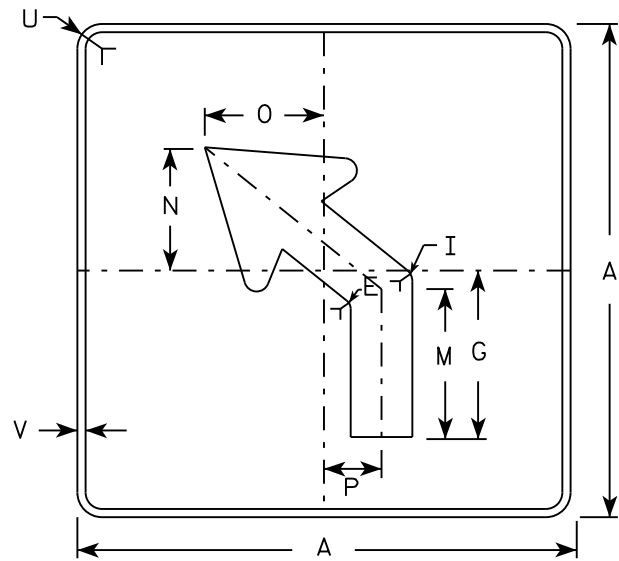
M5-1L
MM5-1L
M05-1L
MP5-1L



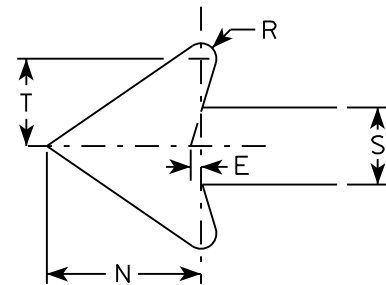
M5-2L
MM5-2L
M05-2L
MP5-2L



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

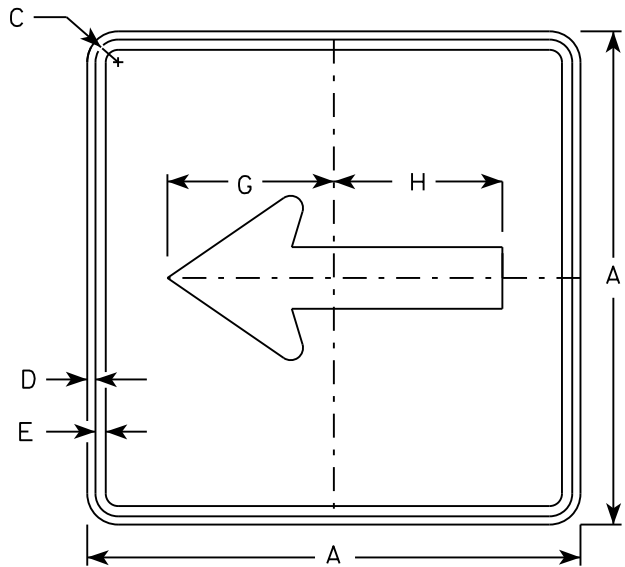
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
M5-1 & M5-2

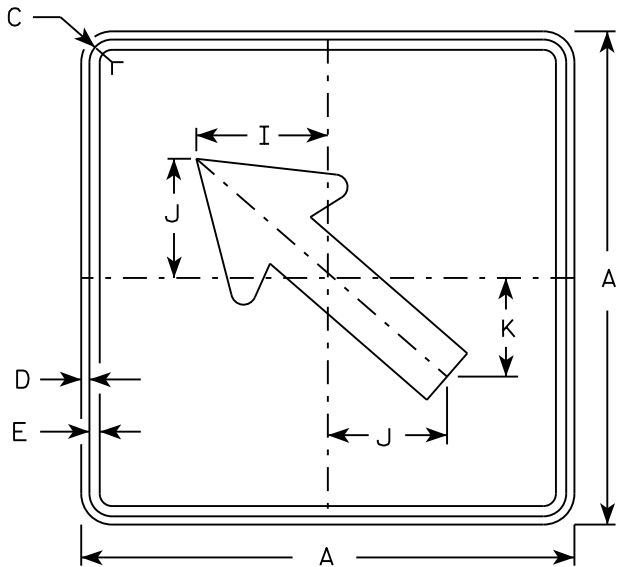
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

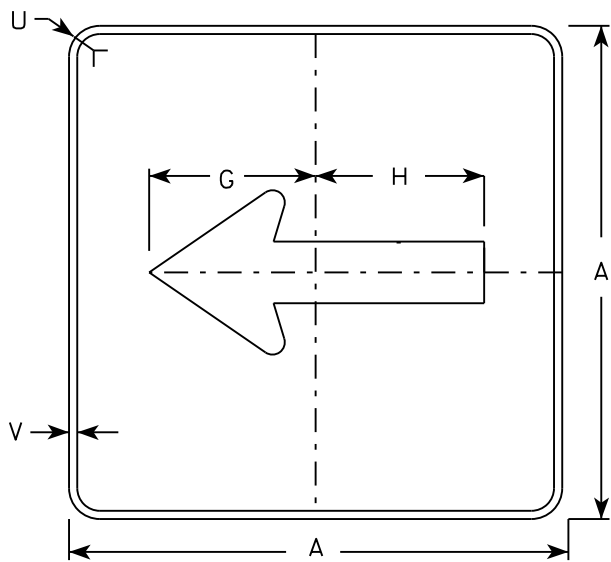
DATE 10/15/15 PLATE NO. M5-1.13



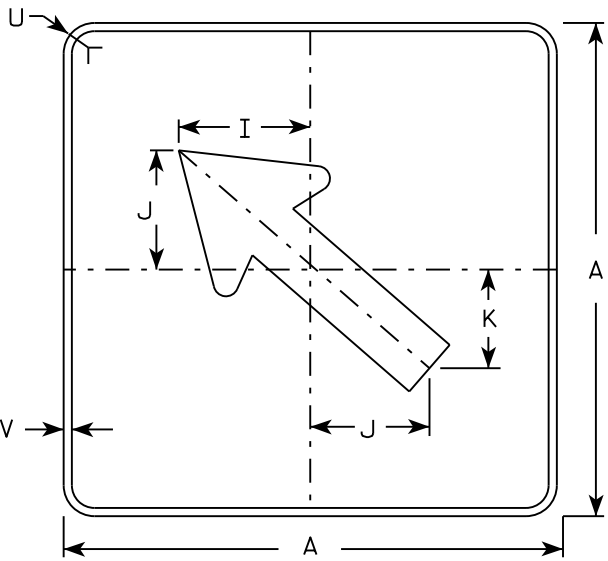
M6 - 1
MM6 - 1
M06 - 1
MP6 - 1



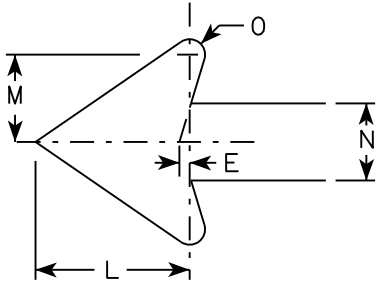
M6 - 2
MM6 - 2
M06 - 2
MP6 - 2



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



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



NOTES

- Signs are Type II - Type H 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.
- 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:

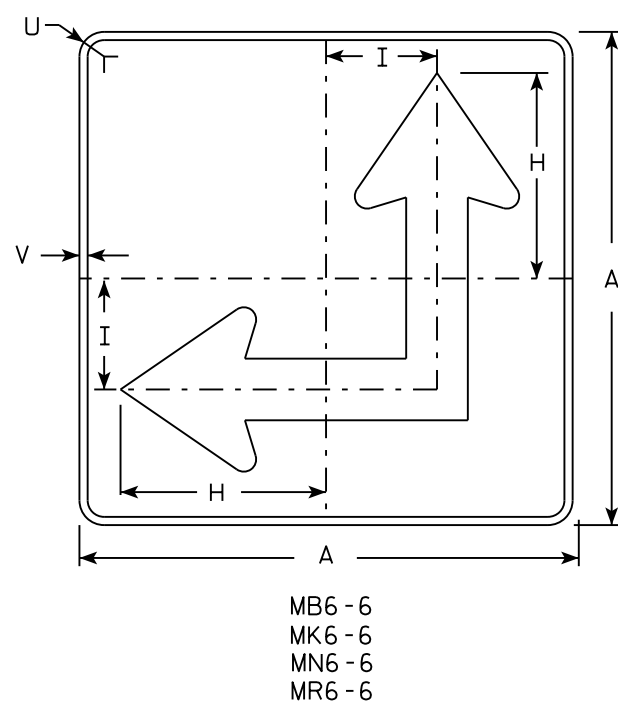
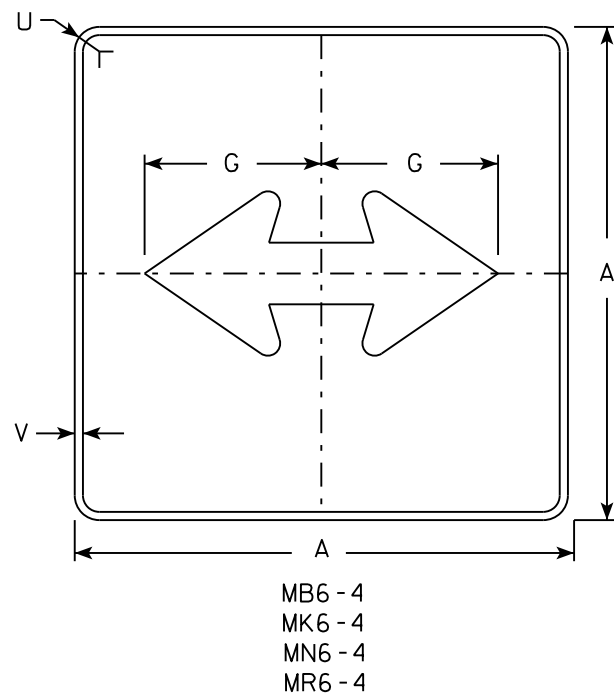
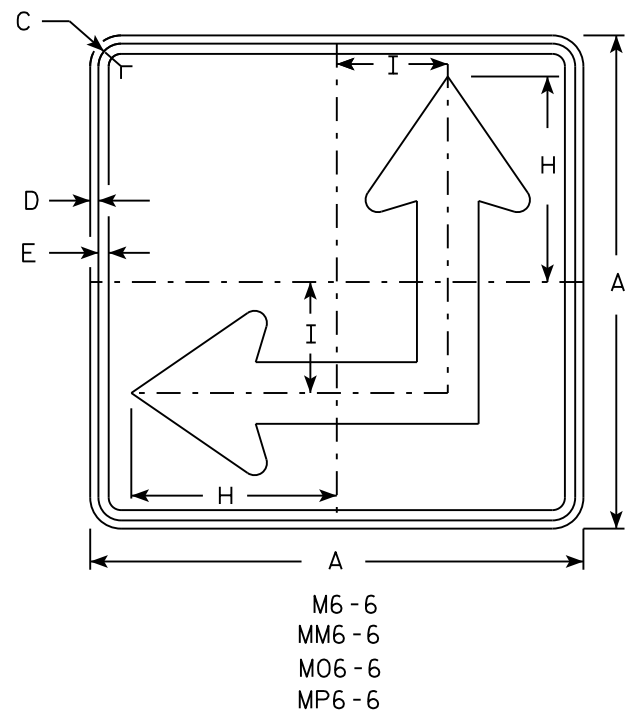
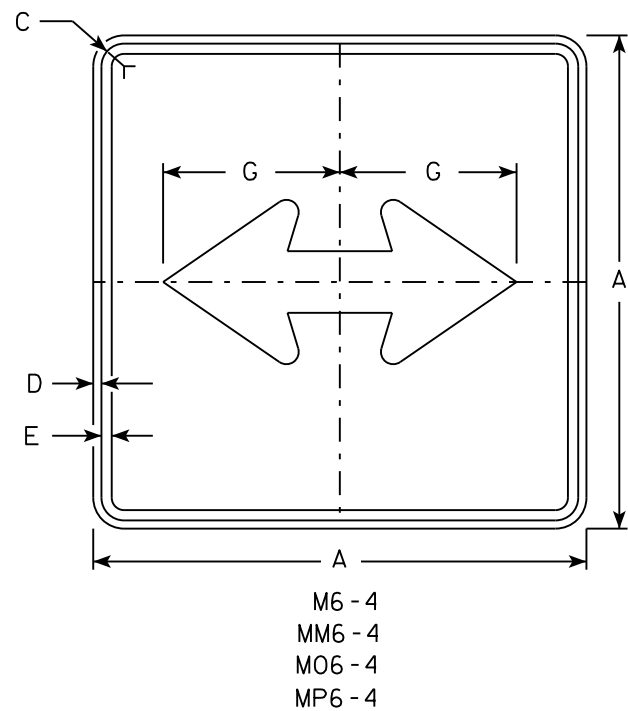
E

STANDARD SIGN
M6 - 1 & M6 - 2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

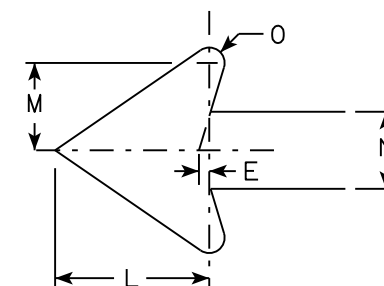
APPROVED
Matthew R. Rauch
for State Traffic Engineer

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



NOTES

- Signs are Type II - Type H 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.
- M6-4 and M6-6 Background - White
Message - Black
MB6-4 and MB6-6 Background - Blue
Message - White
MK6-4 and MK6-6 Background - Green
Message - White
MM6-4 and MM6-6 Background - White
Message - Green
MN6-4 and MN6-6 Background - Brown
Message - White
MO6-4 and MO6-6 Background - Orange - Type F Reflective
Message - Black
MP6-4 and MP6-6 Background - White
Message - Blue
MR6-4 and MR6-6 Background - Brown
Message - Yellow
- M6-6R same as M6-6L except arrow points ahead and 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 1/2	8 3/4	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	12 1/2	6 3/4			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	12 1/2	6 3/4			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	12 1/2	6 3/4			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
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STANDARD SIGN
M6 - 4 & M6 - 6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-4.10

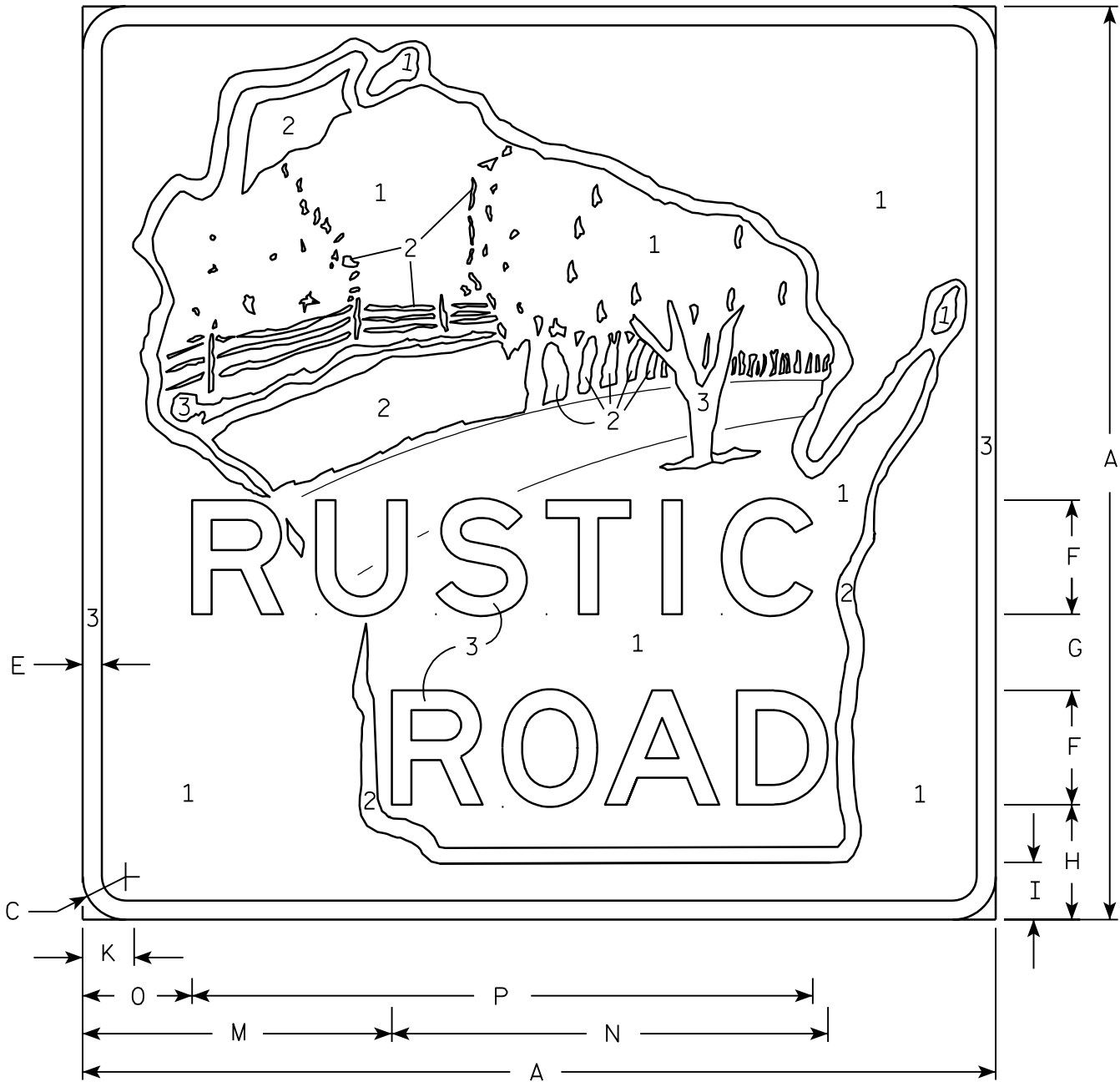
7

Metric equivalent
for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	
4	
5	

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																												
2	24		1 ⅛		½	3	2	3	1 ½		1 ⅜		8 ⅛	11 ¼	2 ⅞	16 ¼											4.0	0.36
3																												
4																												
5																												

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E
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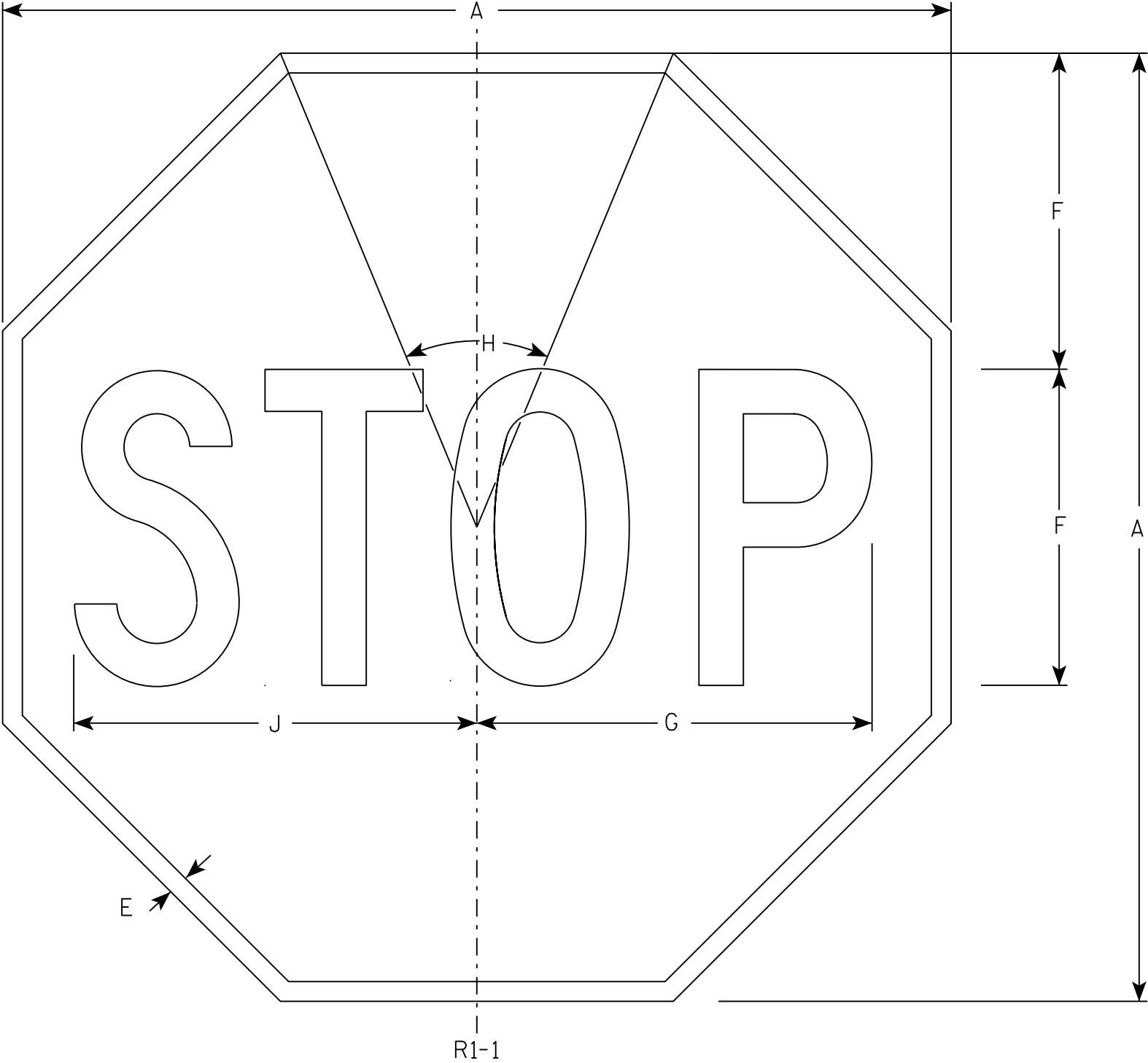


NOTES

- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
 - Color:
Background - See note 5
Message - See note 5.
 - Message Series - Modified E
 - 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.
 - The sign will be color coded by numerical designation Numeral *1 Brown
2 Type H Reflective White
3 Reflective Yellow
- Exact color descriptions will be furnished upon request.

STANDARD SIGN	
MR1-99	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 10/18/05	PLATE NO. MR1-99.5

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

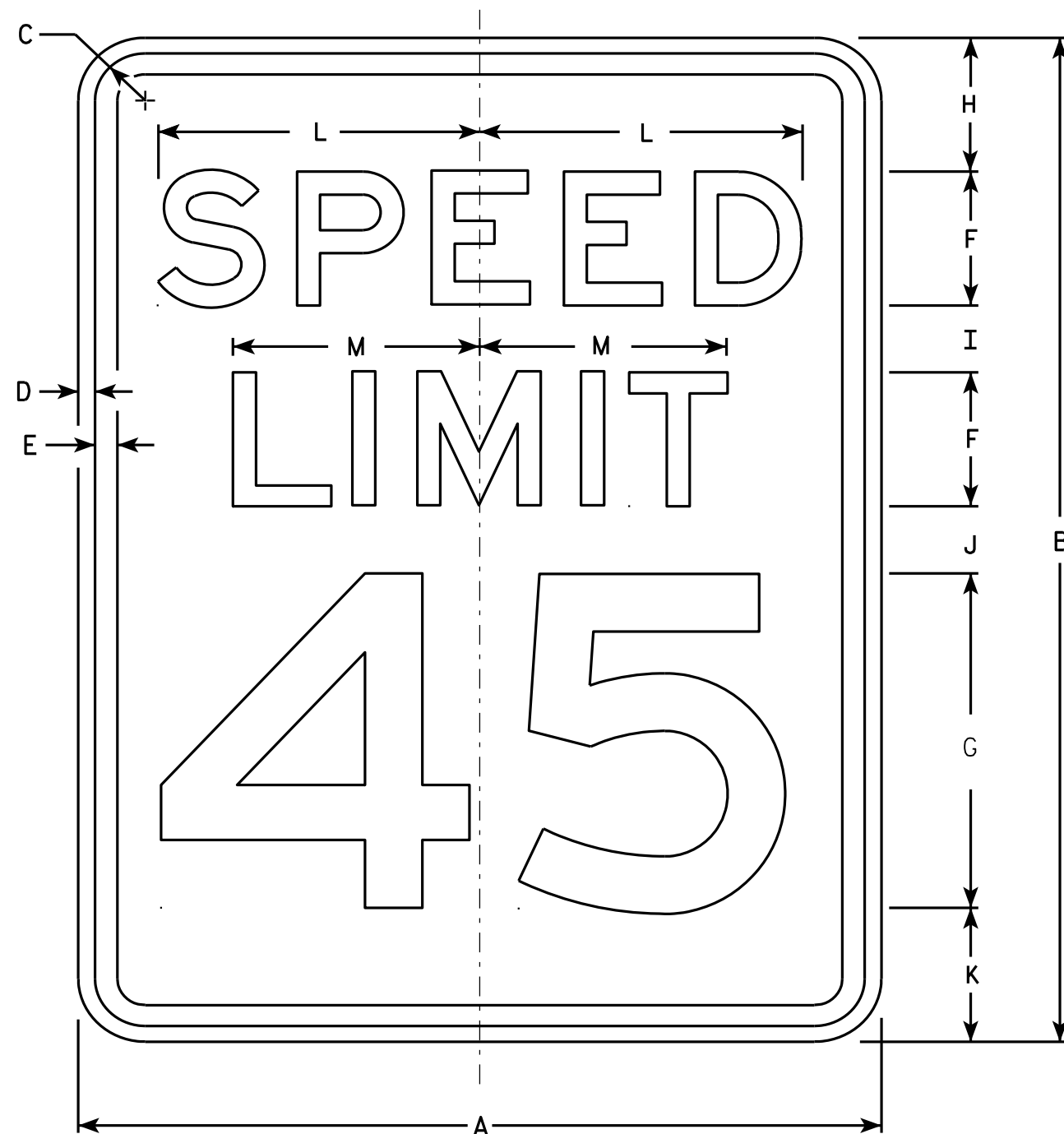
STANDARD SIGN

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

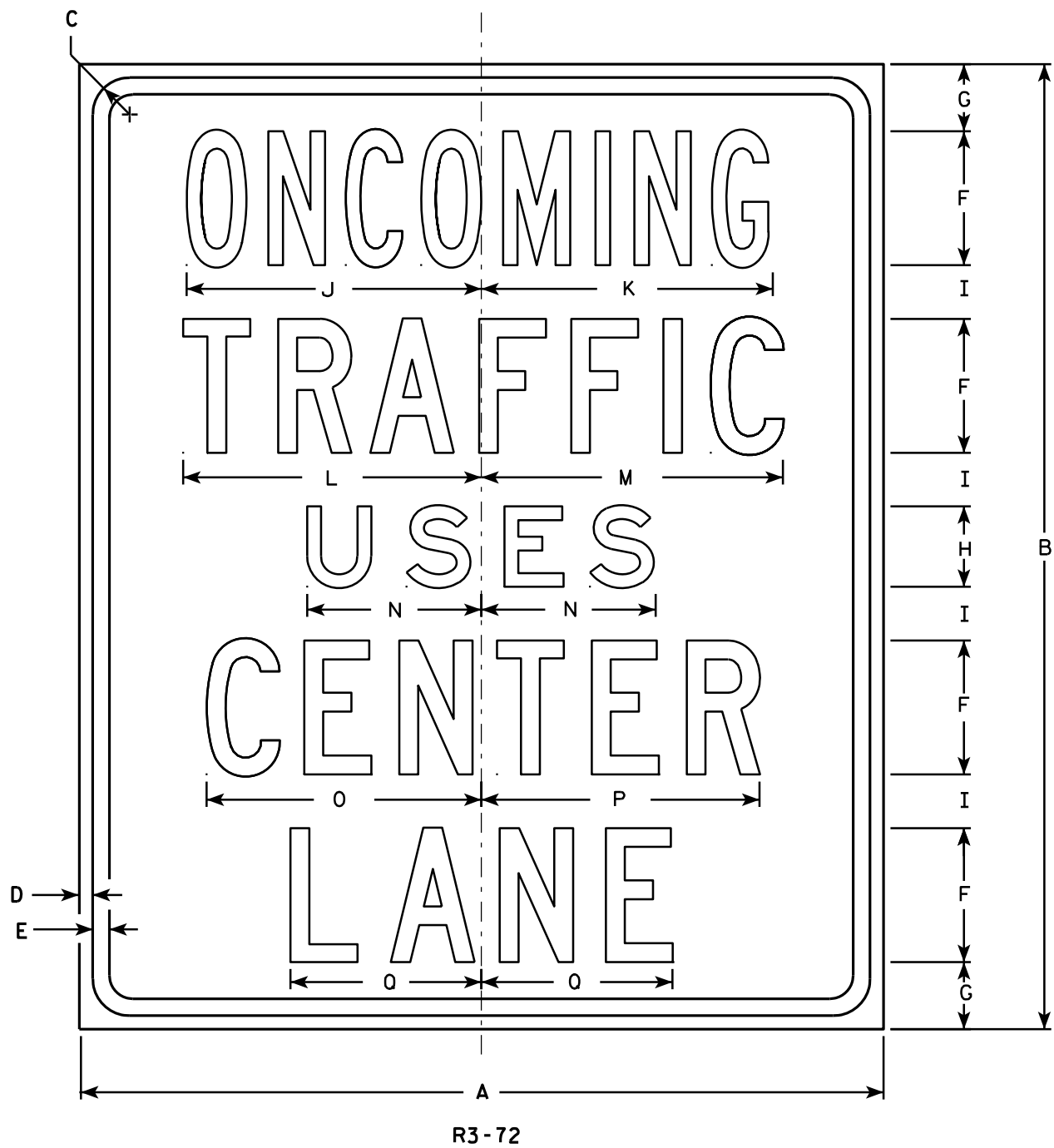
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



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 - Line 1 is Series B, Lines 2, 4 and 5 are Series C, and Line 3 is 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.

R3-72

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	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 7/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
2S	30	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 7/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
2M	30	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 7/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
3																											
4																											
5																											

STANDARD SIGN R3-72

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R3-72.5

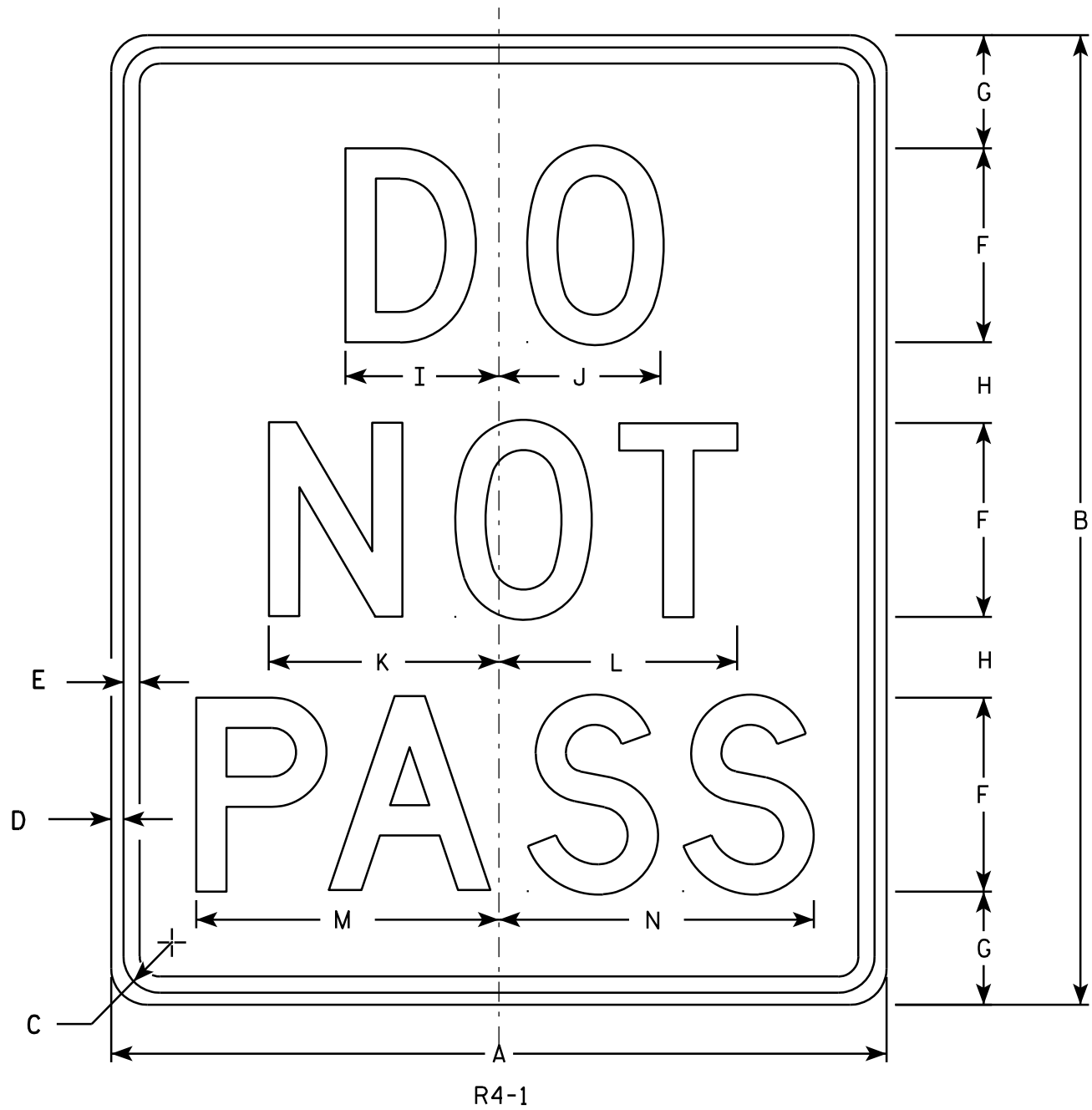
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



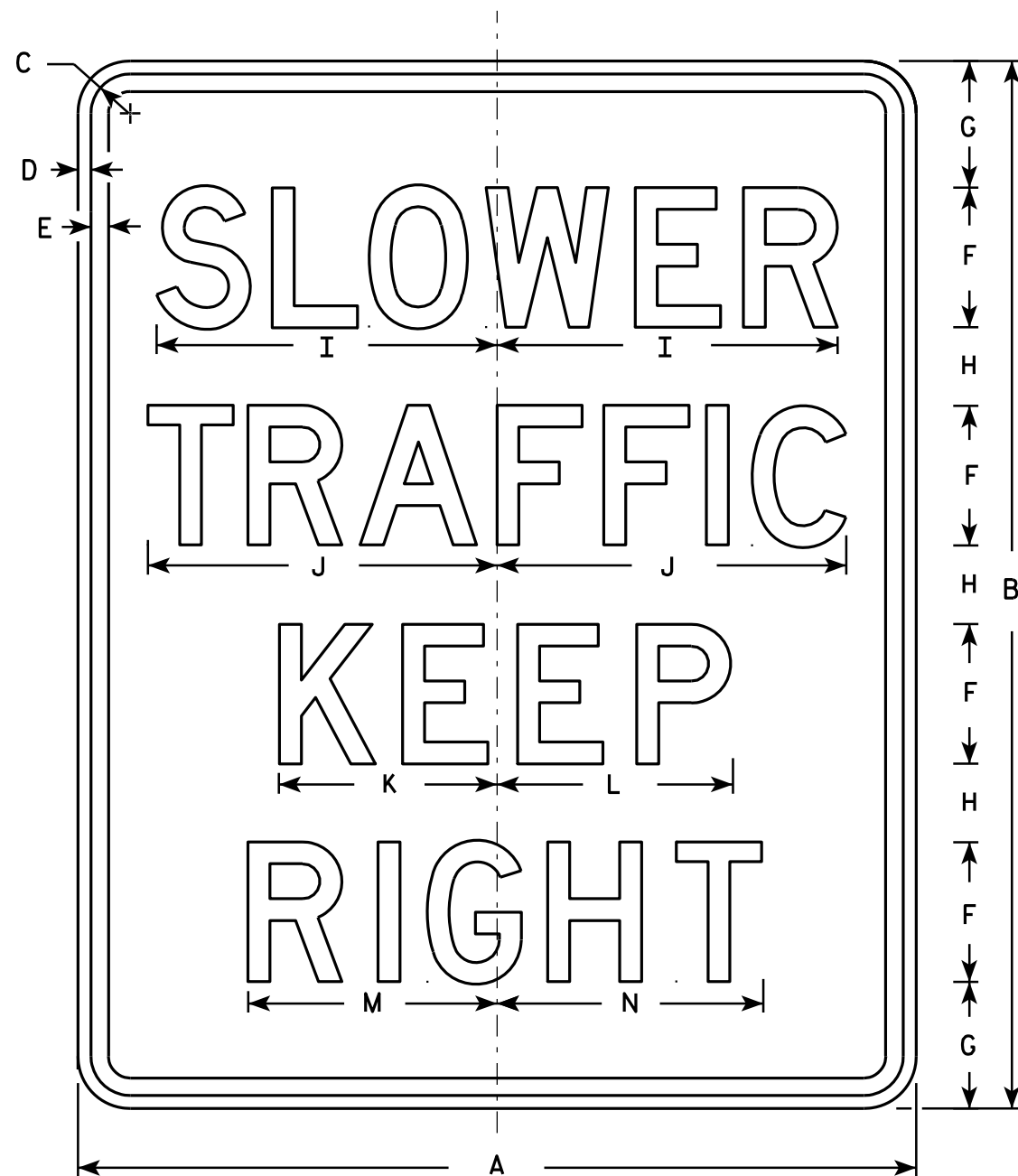
NOTES

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 - D
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	18	24	1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 1/8	3 1/4	4 3/4	4 7/8	6 1/4	6 1/2													3.0
2S	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
2M	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
3																											
4	36	48	1 5/8	5/8	3/4	8	7	5	6 1/4	6 5/8	9 1/2	9 3/4	12 1/2	13													12.0
5	48	60	2 1/4	3/4	1	10	8	7	7 3/4	8 3/8	11 7/8	12 1/4	15 5/8	16 1/4													20.0

STANDARD SIGN R4-1	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 3/25/2011	PLATE NO. R4-1.7

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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R4-3

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 - D
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																											
2S	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
2M	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
3	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
4	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
5	48	60	2 1/4	3/4	1	8	7 1/4	4 1/2	19 1/2	20	12 1/2	13 1/2	14 1/4	15 1/4													20.0

STANDARD SIGN R4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-3.8

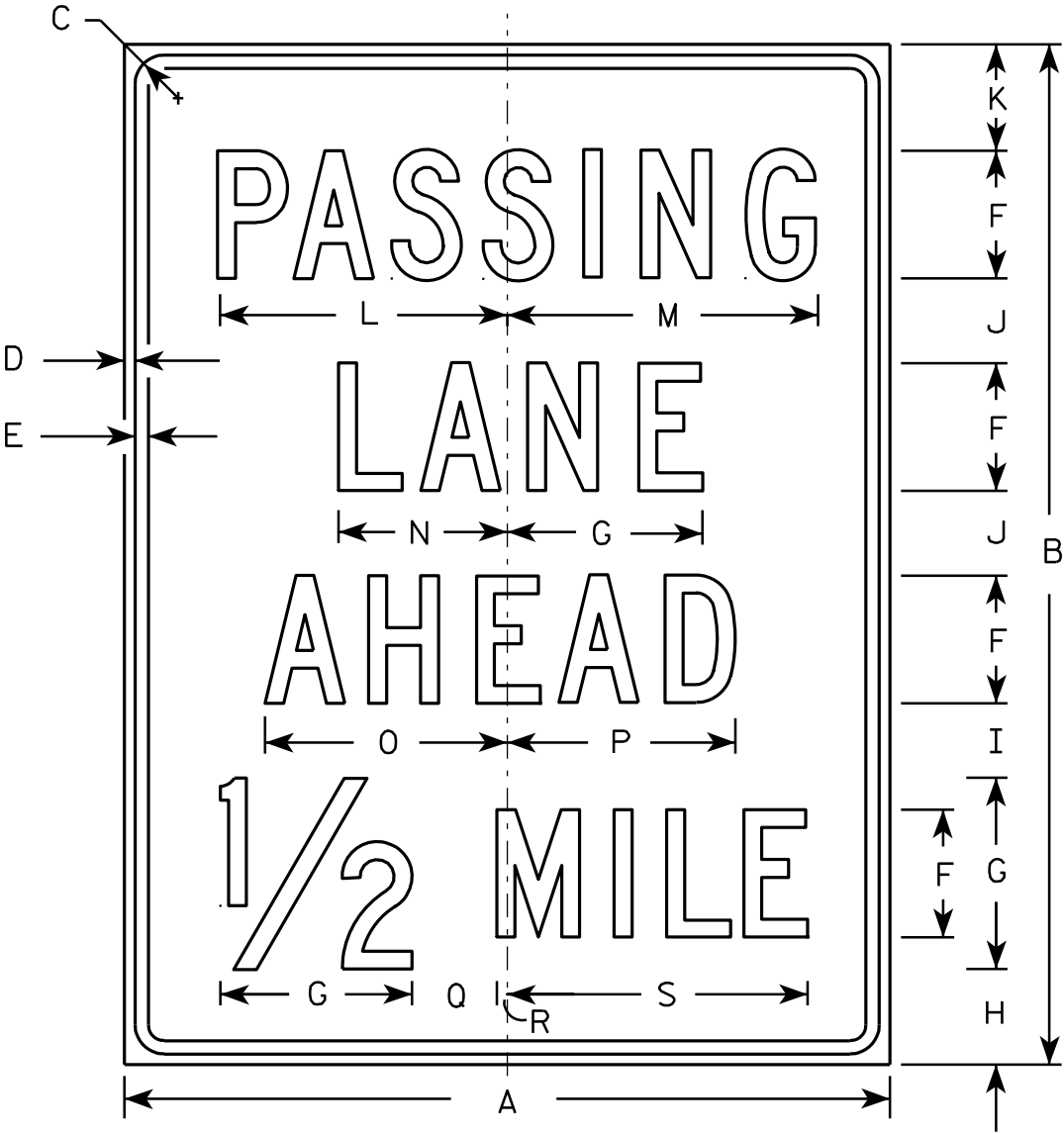
PROJECT NO:

SHEET NO:

E

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 - 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.



R4-51

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																											
2S	36	48	1 ³ / ₈	1/2	⁵ / ₈	6	9	4 1/2	3 1/2	4	5	13 ⁵ / ₈	14 1/2	8	11 ³ / ₈	10 ³ / ₄	4	1/2	14 1/8								12.0
2M	36	48	1 ³ / ₈	1/2	⁵ / ₈	6	9	4 1/2	3 1/2	4	5	13 ⁵ / ₈	14 1/2	8	11 ³ / ₈	10 ³ / ₄	4	1/2	14 1/8								12.0
3																											
4																											
5																											

STANDARD SIGN
R4-51

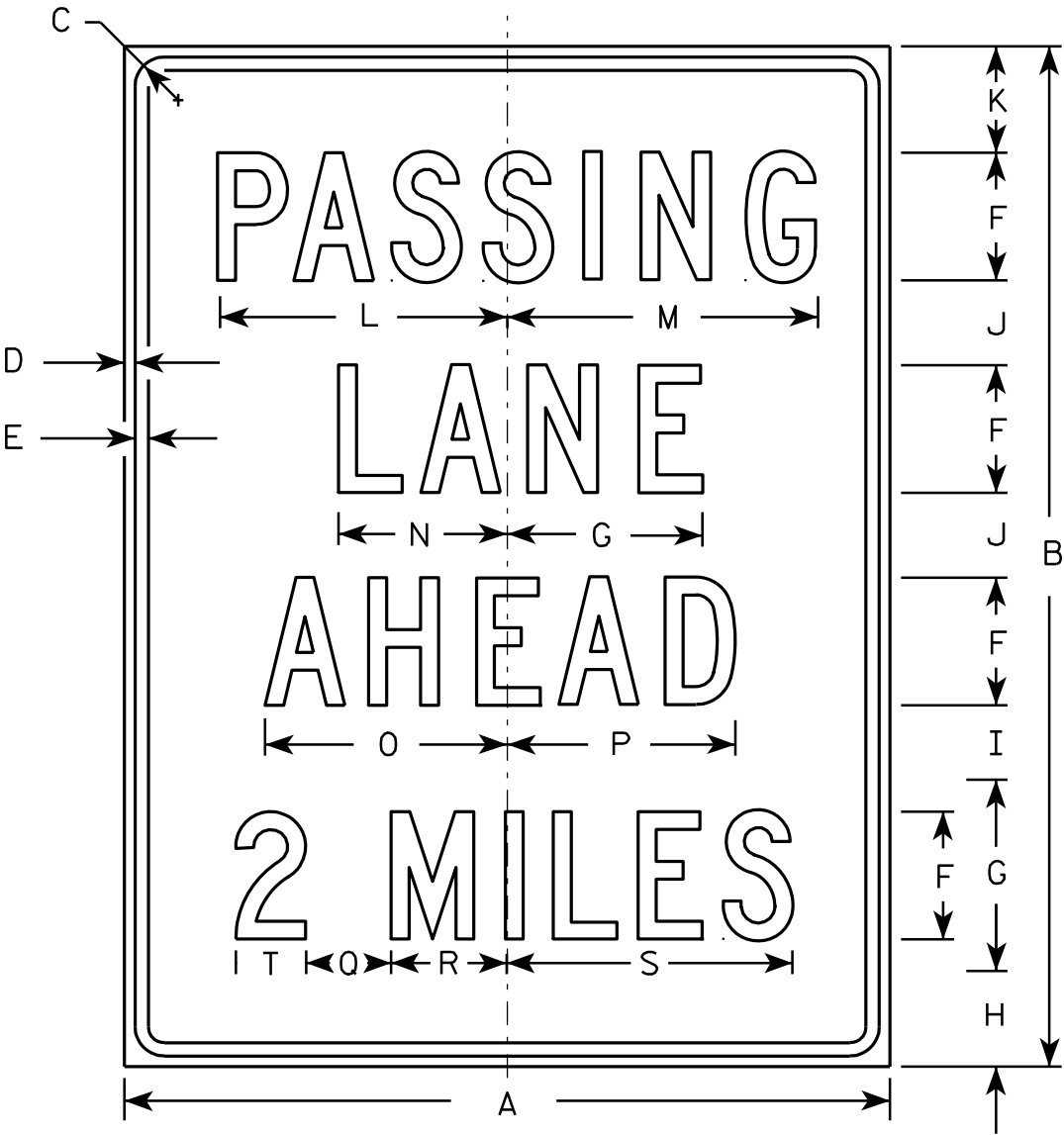
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R4-51.4

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 - 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.



R4-51A

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																											
2S	36	48	1 ³ / ₈	1/2	⁵ / ₈	6	9 ¹ / ₄	4 ¹ / ₂	3 ¹ / ₂	4	5	13 ⁵ / ₈	14 ¹ / ₂	8	11 ³ / ₈	10 ³ / ₄	4	5 ¹ / ₂	13 ³ / ₈	3 ¹ / ₄							12.0
2M	36	48	1 ³ / ₈	1/2	⁵ / ₈	6	9 ¹ / ₄	4 ¹ / ₂	3 ¹ / ₂	4	5	13 ⁵ / ₈	14 ¹ / ₂	8	11 ³ / ₈	10 ³ / ₄	4	5 ¹ / ₂	13 ³ / ₈	3 ¹ / ₄							12.0
3																											
4																											
5																											

STANDARD SIGN
R4-51A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R4-51A.2

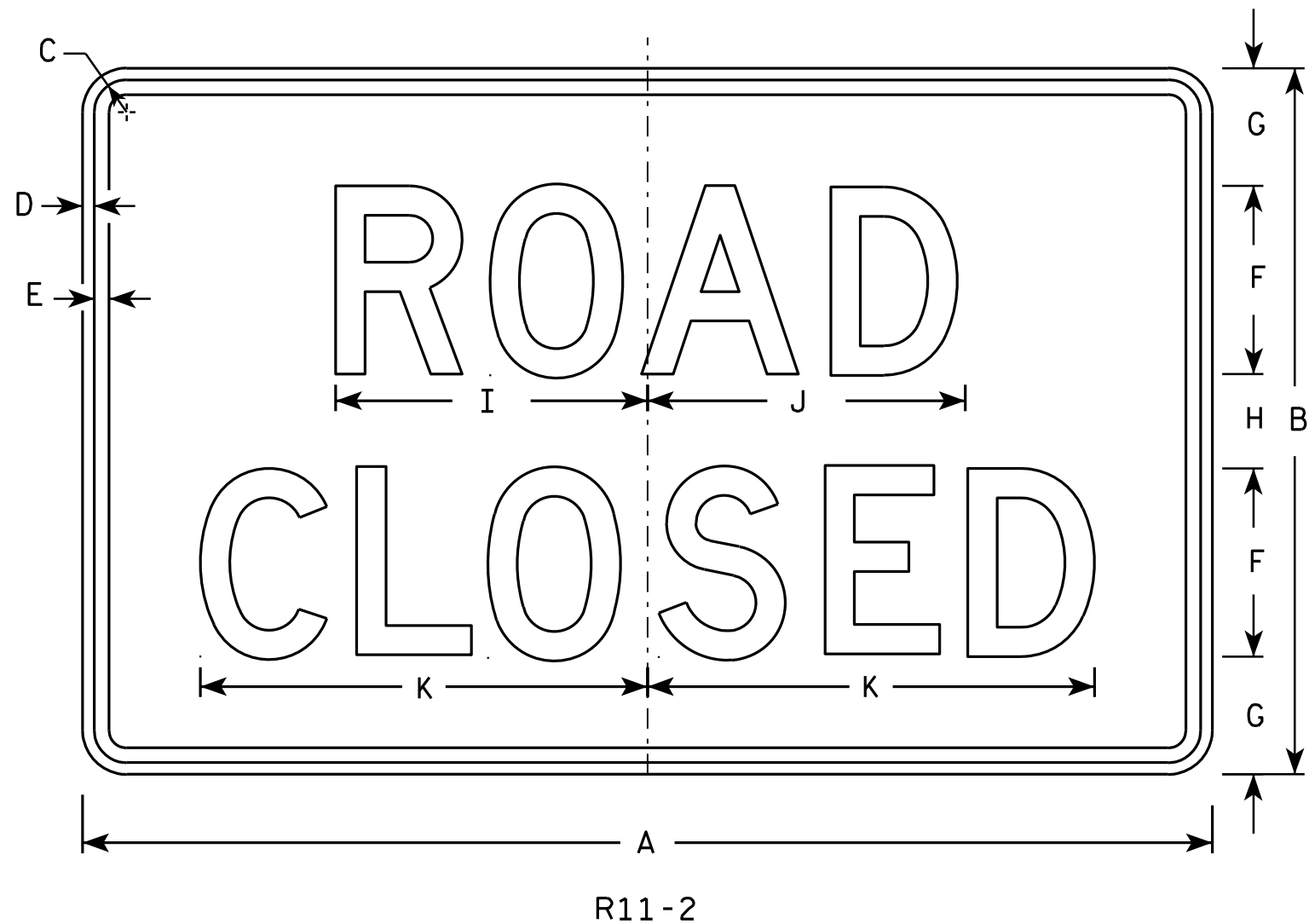
PROJECT NO:

HWY:

COUNTY:

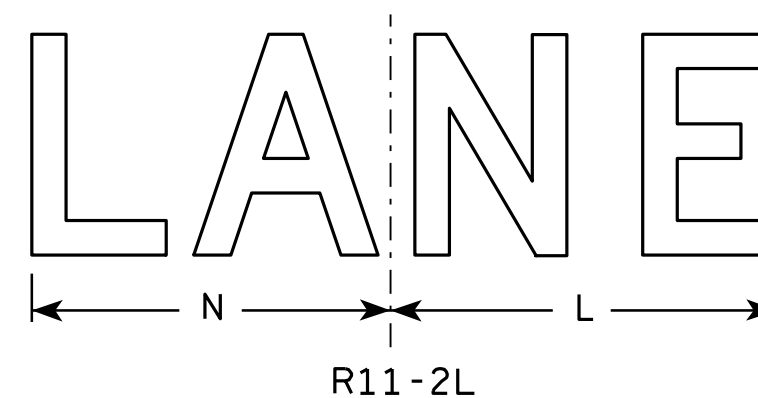
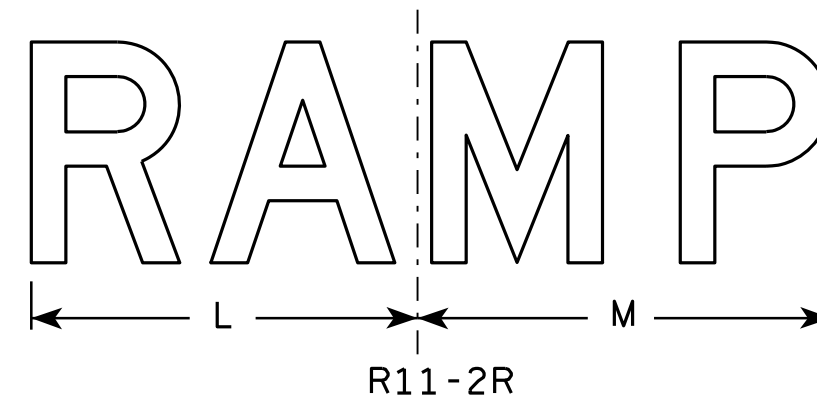
SHEET NO:

E



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 - D
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. Modify the message as required.



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																											
2S	48	30	1 3⁄8	1⁄2	5⁄8	8	5	4	13 1⁄4	13 1⁄2	19	14	15	13													10.0
2M	48	30	1 3⁄8	1⁄2	5⁄8	8	5	4	13 1⁄4	13 1⁄2	19	14	15	13													10.0
3	48	30	1 3⁄8	1⁄2	5⁄8	8	5	4	13 1⁄4	13 1⁄2	19	14	15	13													10.0
4	48	30	1 3⁄8	1⁄2	5⁄8	8	5	4	13 1⁄4	13 1⁄2	19	14	15	13													10.0
5	48	30	1 3⁄8	1⁄2	5⁄8	8	5	4	13 1⁄4	13 1⁄2	19	14	15	13													10.0

STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

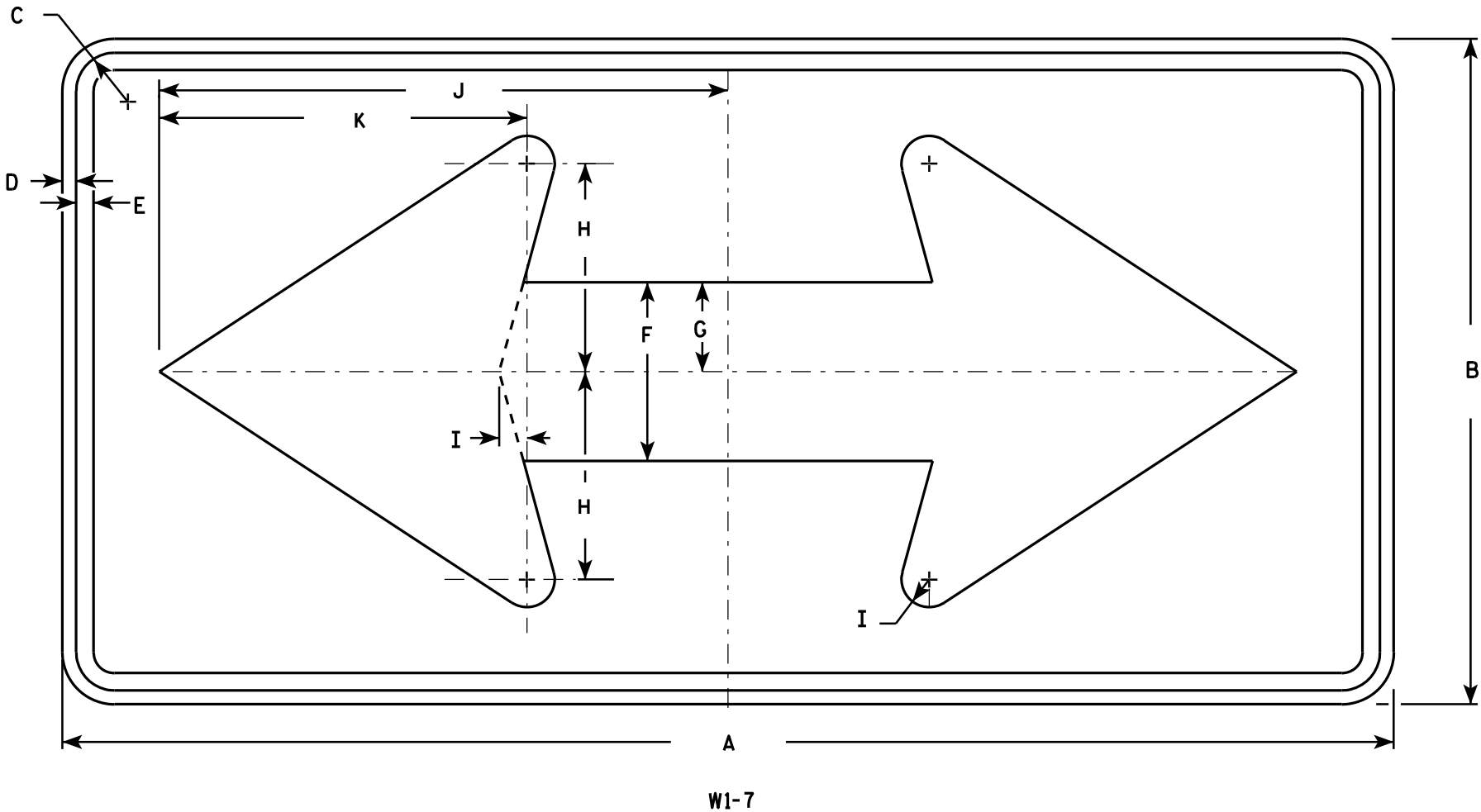
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



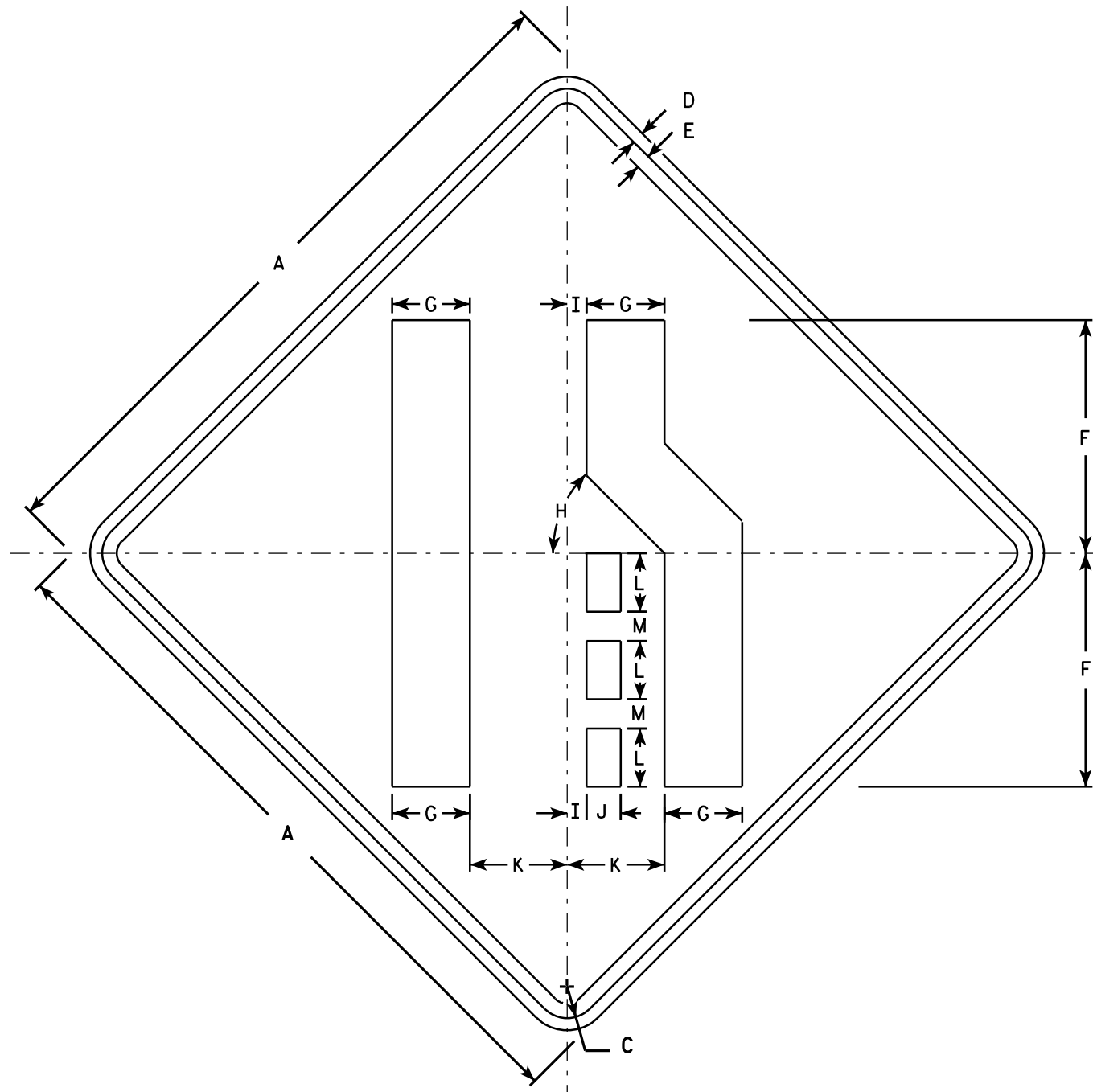
NOTES

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.

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	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

STANDARD SIGN W1-7	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 6/7/10	PLATE NO. W1-7.7

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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W4-2R

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. W4-2L is the same as W4-2R except the symbols 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	30		1 3⁄8	1⁄2	5⁄8	10	3 3⁄8	45°	7⁄8	1 1⁄2	4 1⁄4	2 1⁄2	1 1⁄4														6.25
2S	36		1 5⁄8	5⁄8	3⁄4	12	4	45°	1	1 3⁄4	5	3	1 1⁄2														9.0
2M	36		1 5⁄8	5⁄8	3⁄4	12	4	45°	1	1 3⁄4	5	3	1 1⁄2														9.0
3	36		1 5⁄8	5⁄8	3⁄4	12	4	45°	1	1 3⁄4	5	3	1 1⁄2														9.0
4	48		2 1⁄4	3⁄4	1	16	5 3⁄8	45°	1 1⁄4	2 3⁄8	6 3⁄4	4	2														16.0
5	48		2 1⁄4	3⁄4	1	16	5 3⁄8	45°	1 1⁄4	2 3⁄8	6 3⁄4	4	2														16.0

STANDARD SIGN W4-2

WISCONSIN DEPT OF TRANSPORTATION

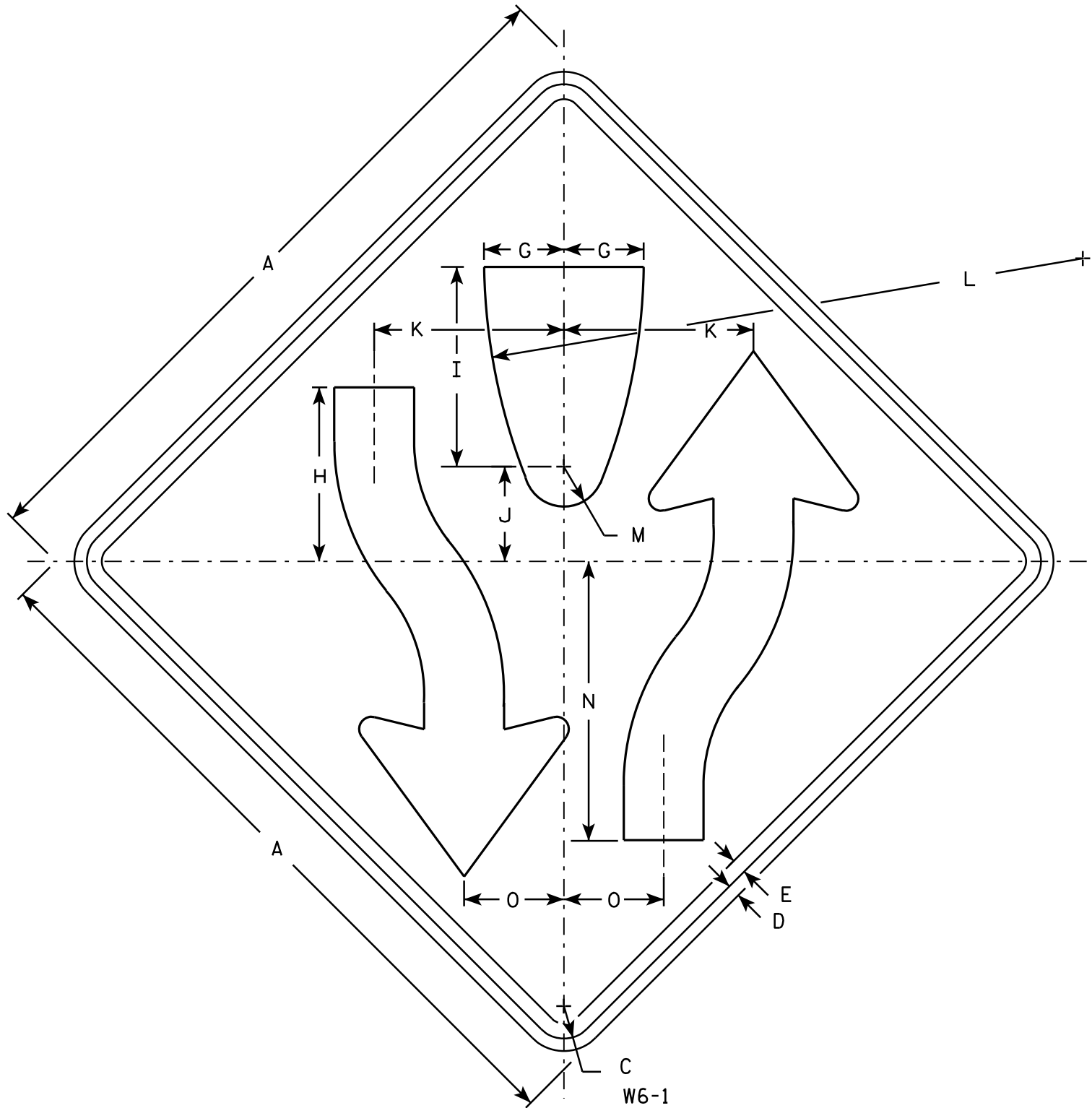
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

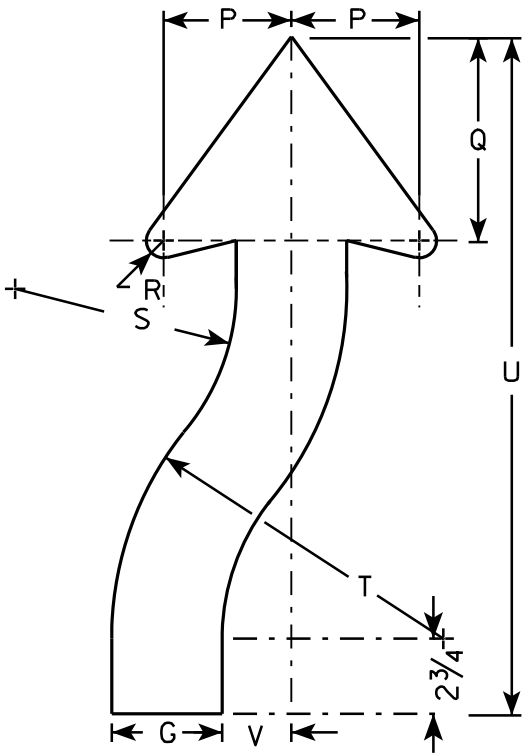
SHEET NO:

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. W6-2 same as W6-1 but is rotated 180° when mounted.

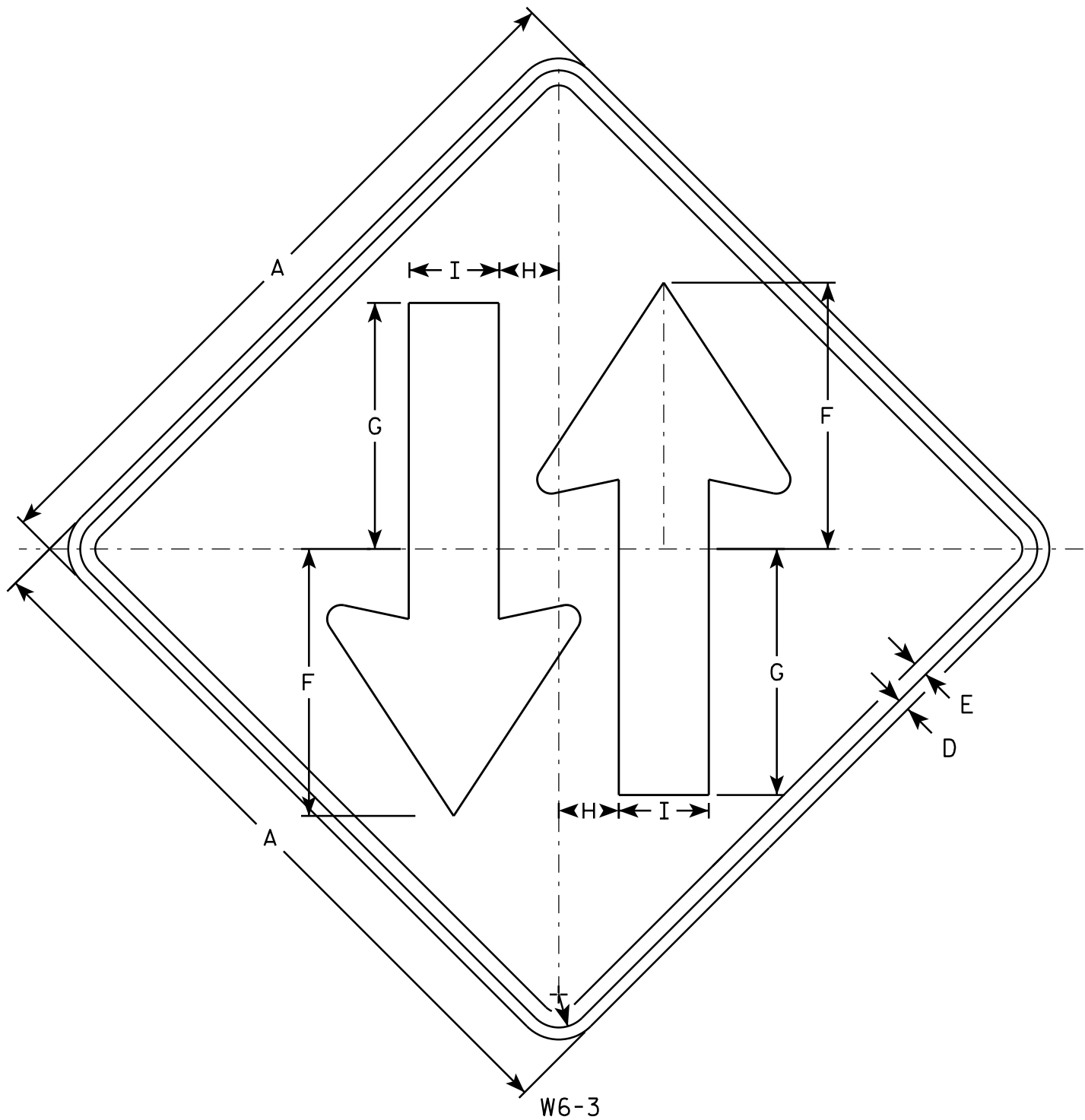


ARROW DETAIL

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		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

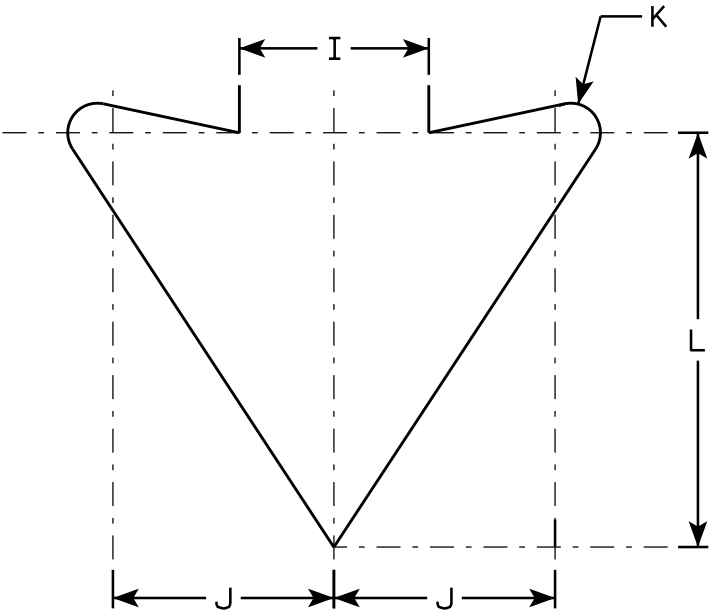
WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 03/12/13 PLATE NO. W6-1.14



W6-3

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.



ARROW DETAIL

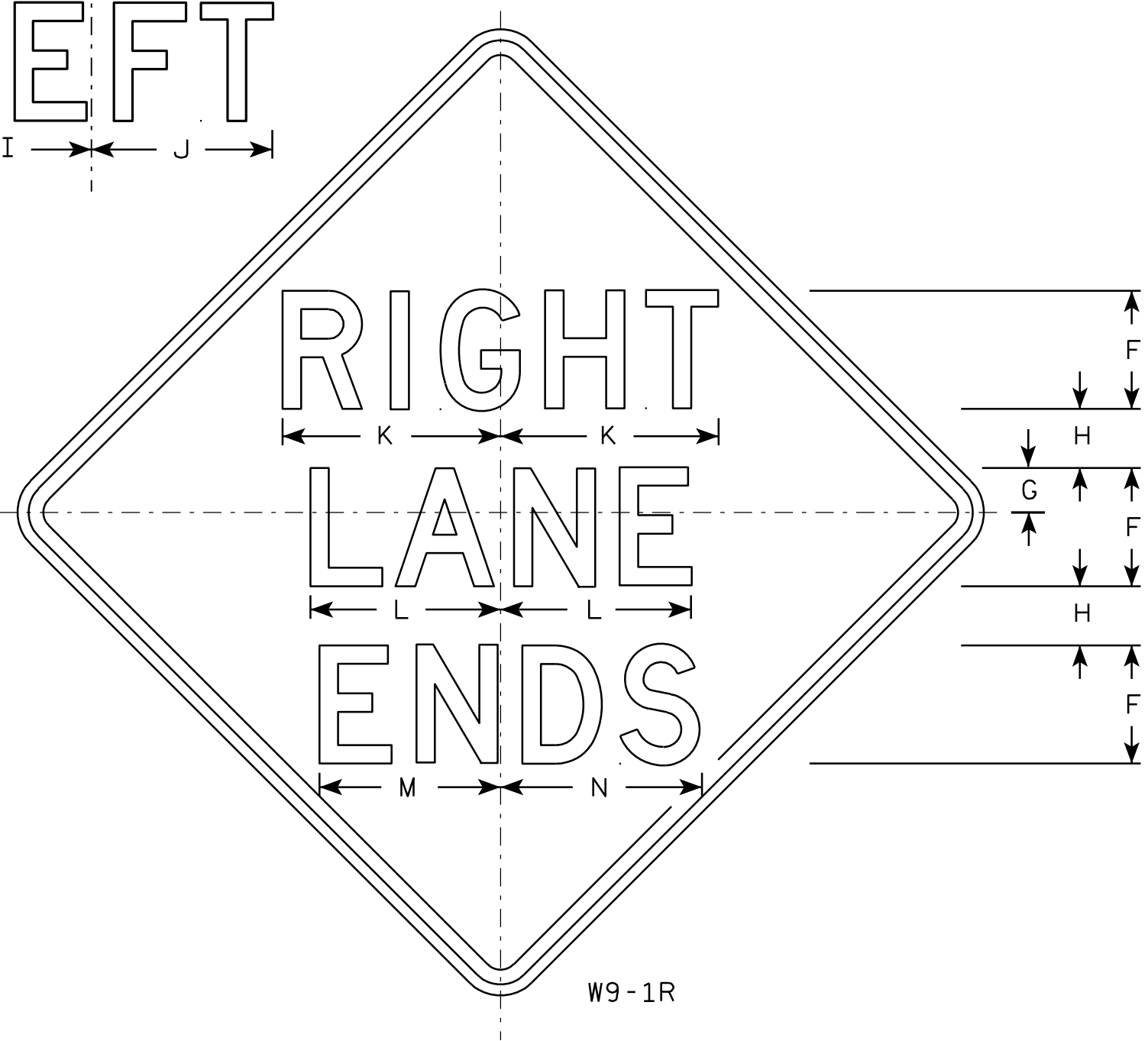
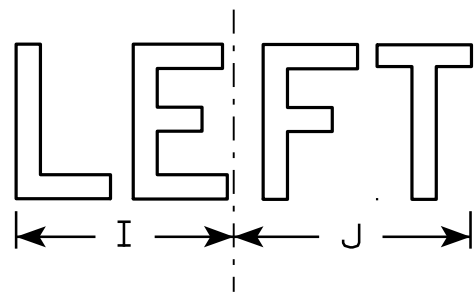
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8														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

STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE NO. W6-3.11



W9-1R

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 - D
- 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. W9-1L same as W9-1R except the word Left replaces Right.

7

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		1 3/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

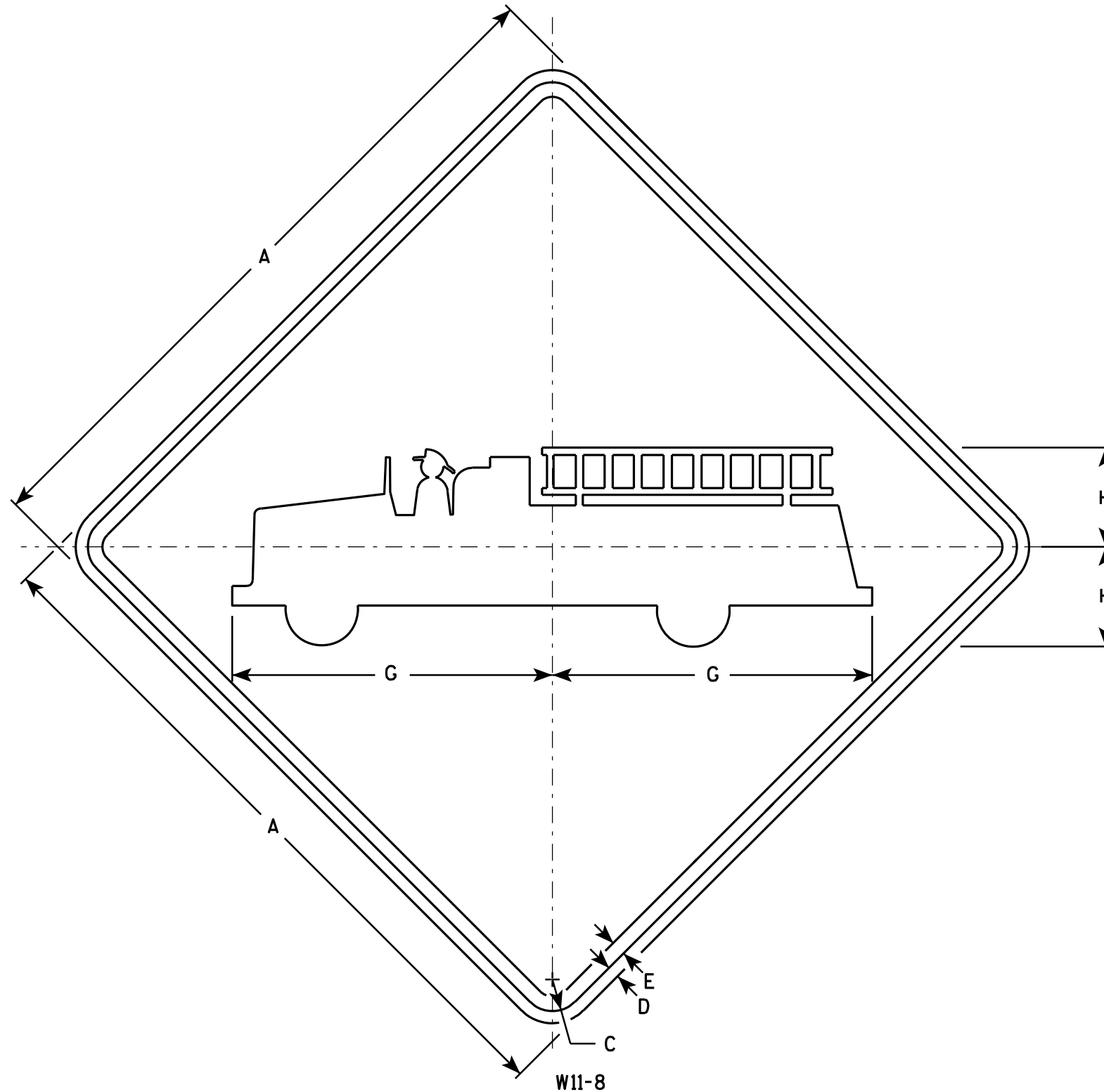
STANDARD SIGN

W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 03/18/13 PLATE NO. W9-1.8



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.

W11-8

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	24		1 1/8	3/8	1/2		11	3 3/8																			4.0
2S	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
2M	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
3	36		1 5/8	5/8	3/4		16 1/2	5 1/4																			9.0
4	48		2 1/4	3/4	1		22	7																			16.0
5																											

STANDARD SIGN W11-8

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 3/13/13 PLATE NO. W11-8.7

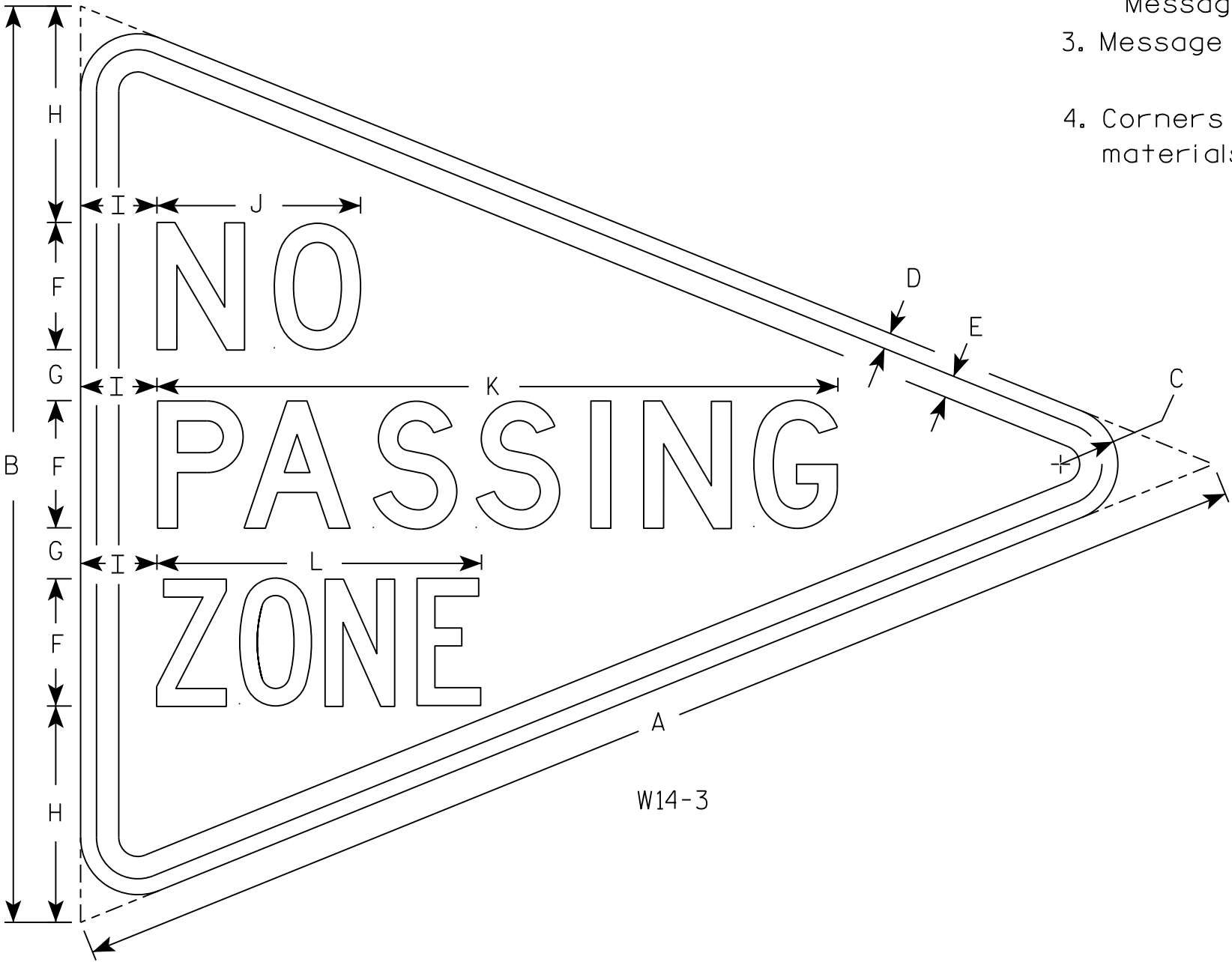
PROJECT NO:

SHEET NO:

E

NOTES

- 1. Sign is Type II- Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. Message Series - Lines 1 and 2 are Series D.
Line 3 is series C.
- 4. Corners and borders shall be rounded on all base materials for this sign.



7

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																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

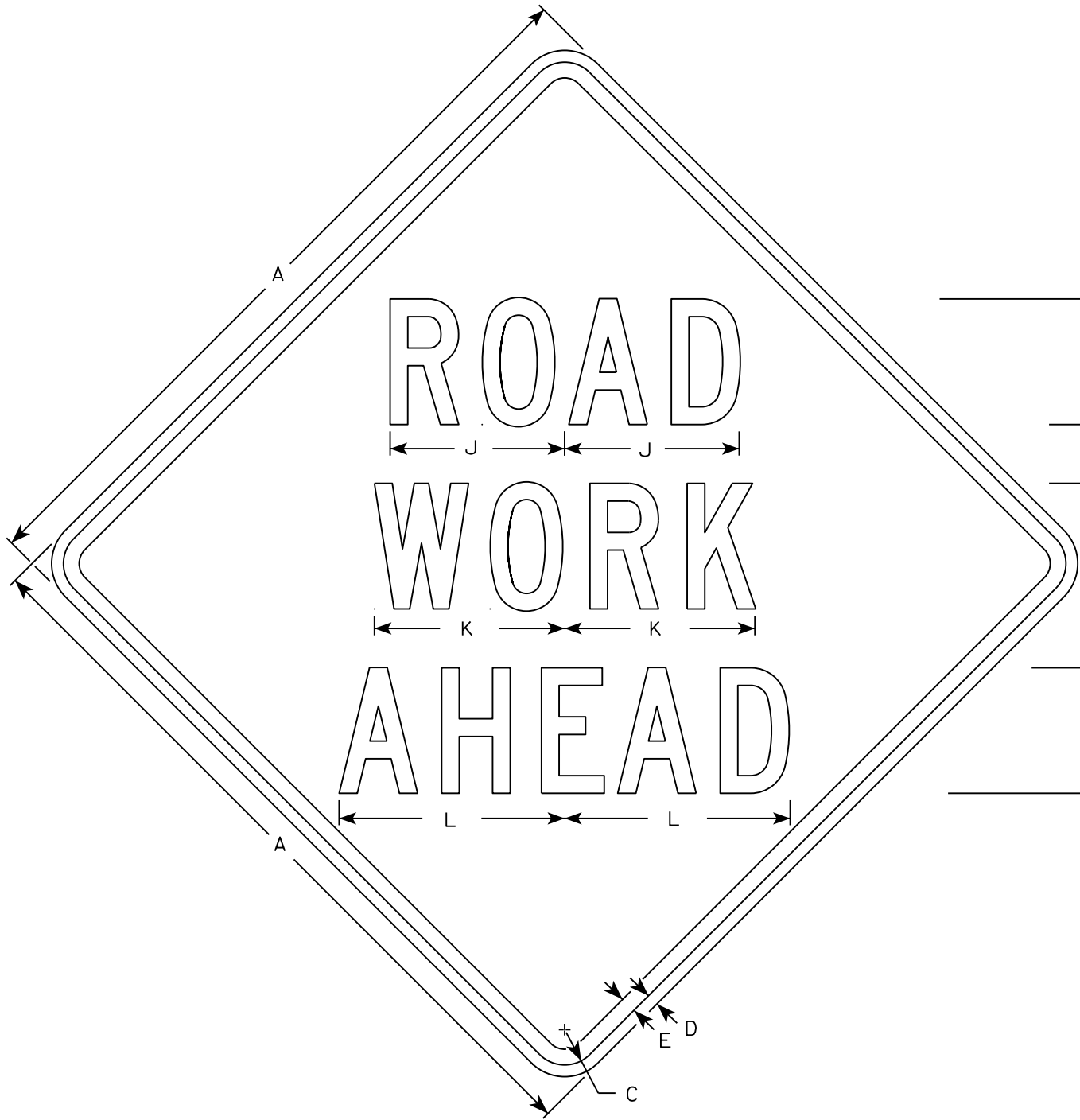
E

STANDARD SIGN
W14-3

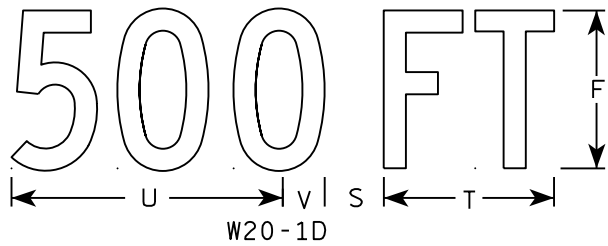
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

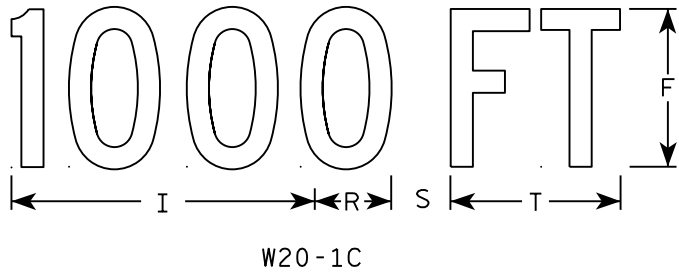
DATE 3/21/17 PLATE NO. W14-3.10



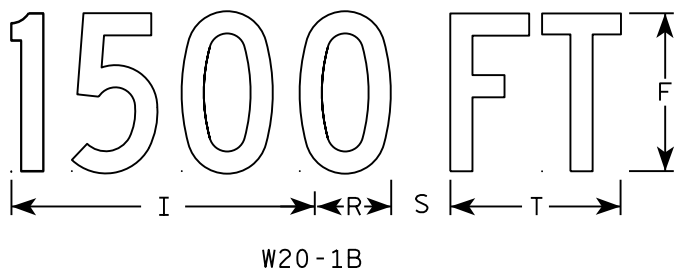
W20-1A



W20-1D



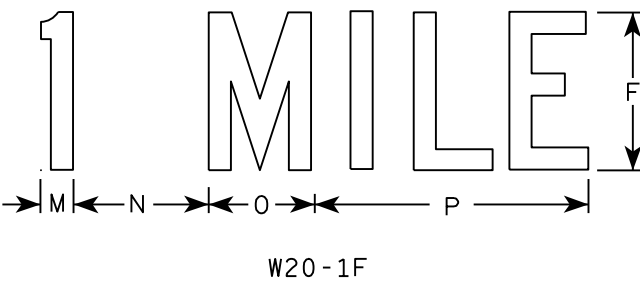
W20-1C



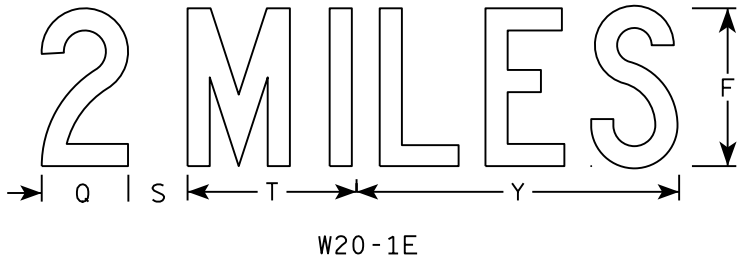
W20-1B



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.

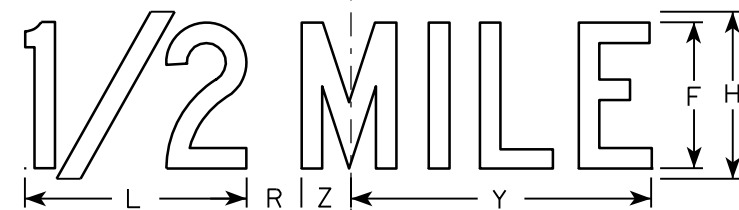
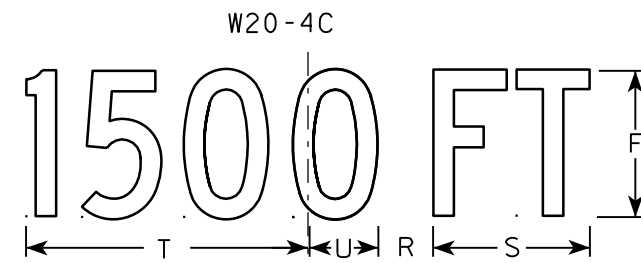
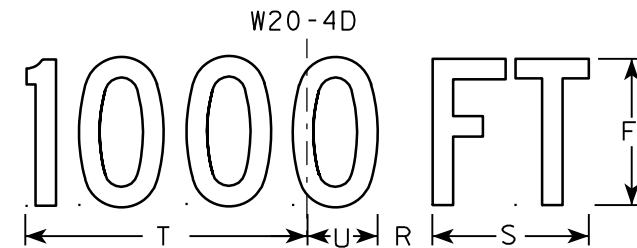
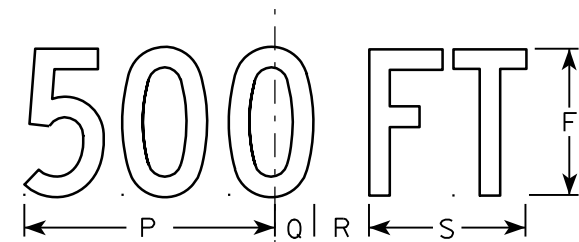
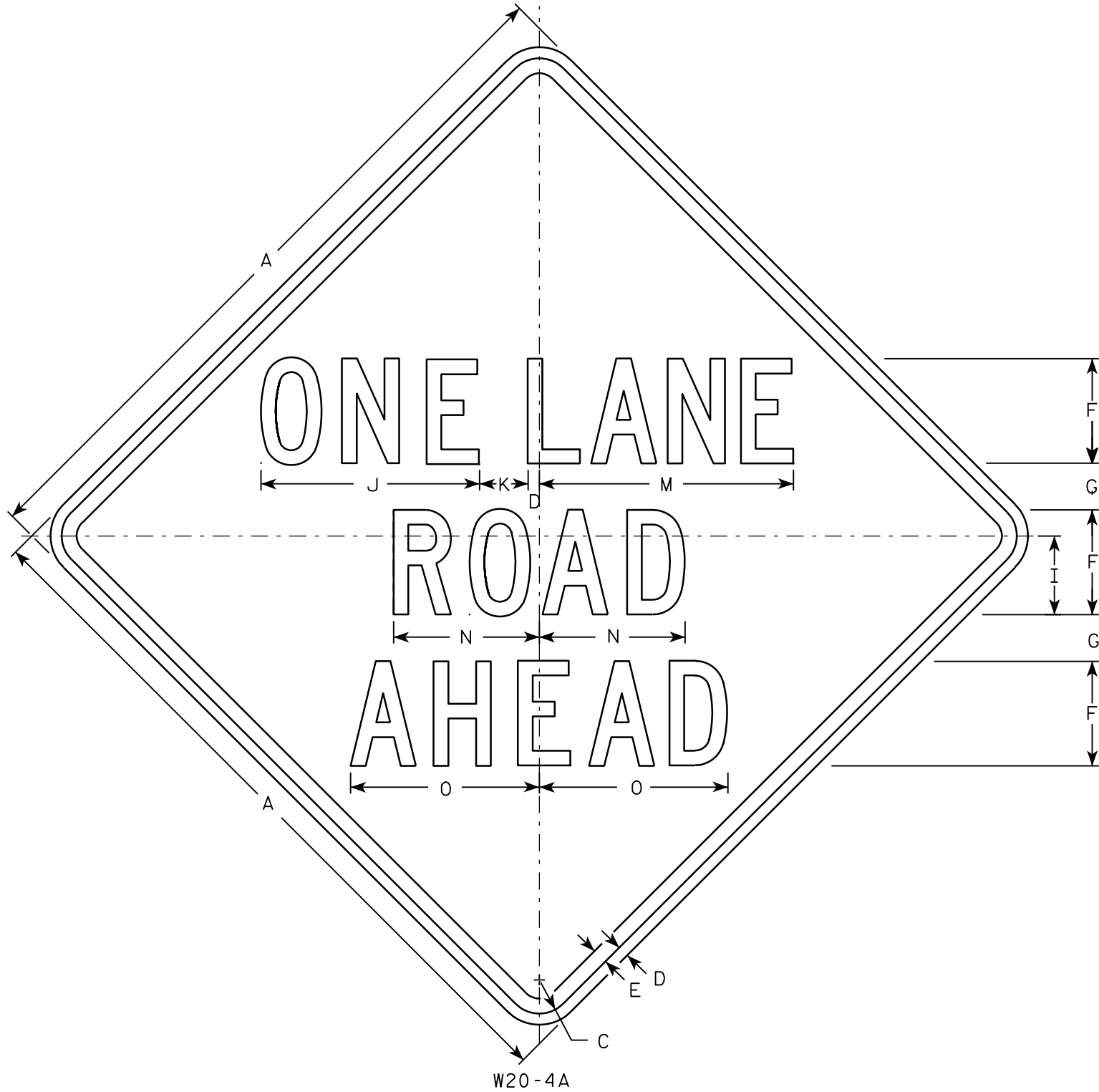
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13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

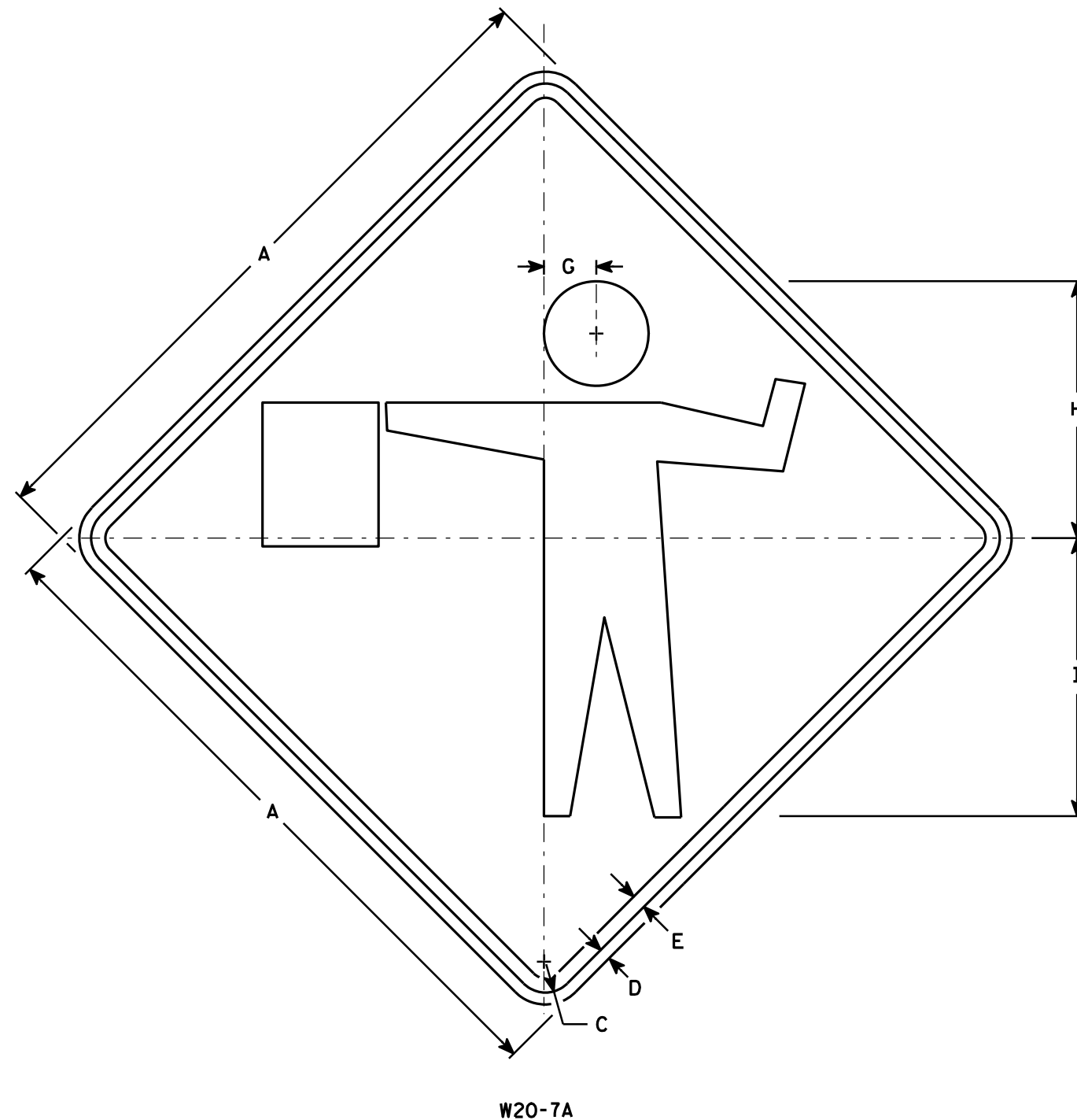


NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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 5/8	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8	2 3/8	8	13 1/2	7	8 7/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN	
W20-4A, B, C, D, F & G	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 3/18/11	PLATE NO. W20-4.9



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
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	36		1 5/8	5/8	3/4		2 3/4	13 1/2	14 5/8																		9.00
2S	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
2M	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
3	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
4	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
5	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00

STANDARD SIGN W20-7A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-7A.5

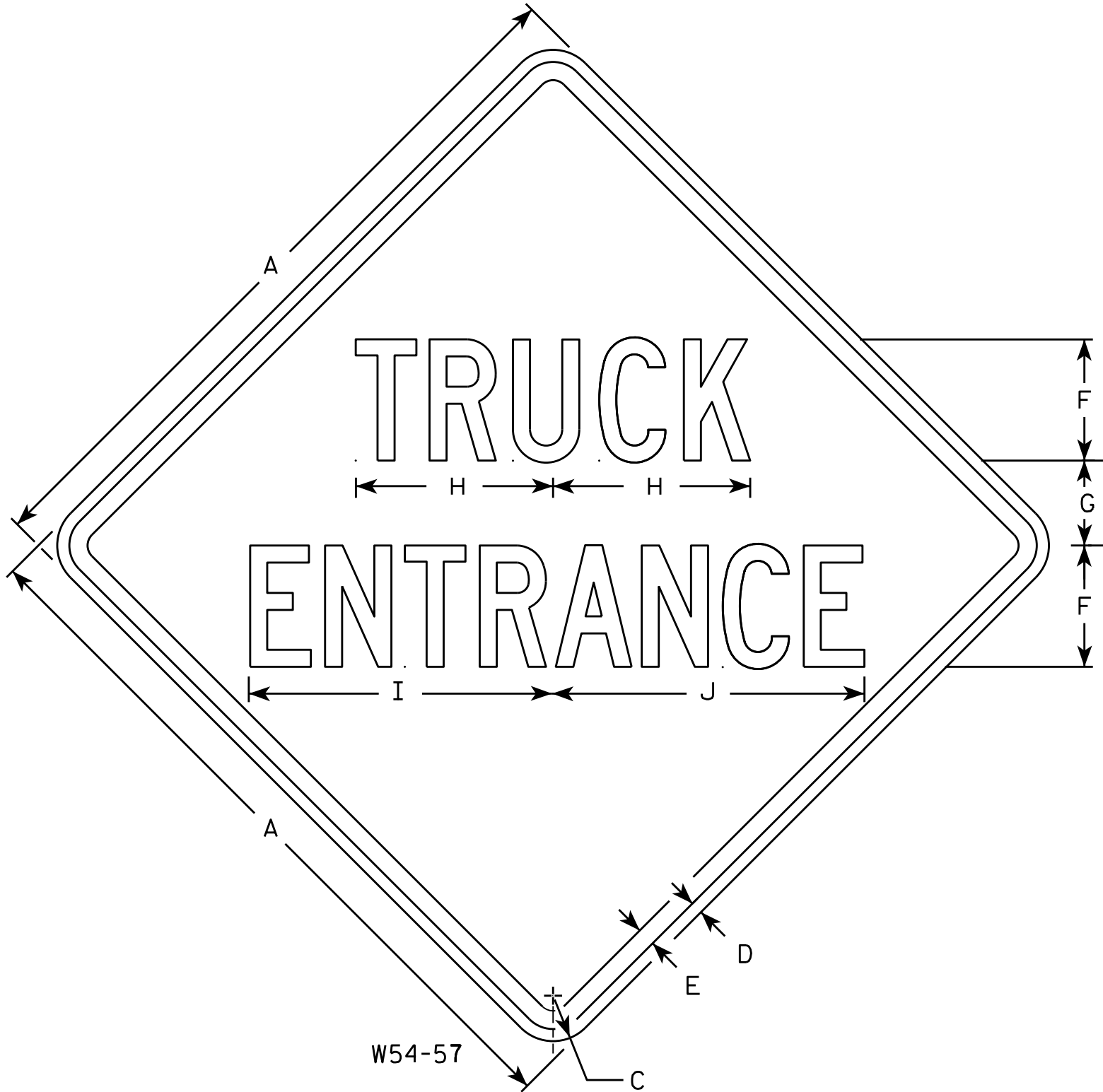
PROJECT NO:

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. 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																											
2S	30		1 3/8	1/2	5/8	5	3 1/2	8 1/8	12 1/2	12 7/8																	6.25
2M	36		1 5/8	5/8	3/4	6	4 1/4	9 5/8	15	15 3/8																	9.00
3	36		1 5/8	5/8	3/4	6	4 1/4	9 5/8	15	15 3/8																	9.00
4	48		2 1/4	3/4	1	8	5 1/2	13	20	20 5/8																	16.00
5																											

STANDARD SIGN
W54-57

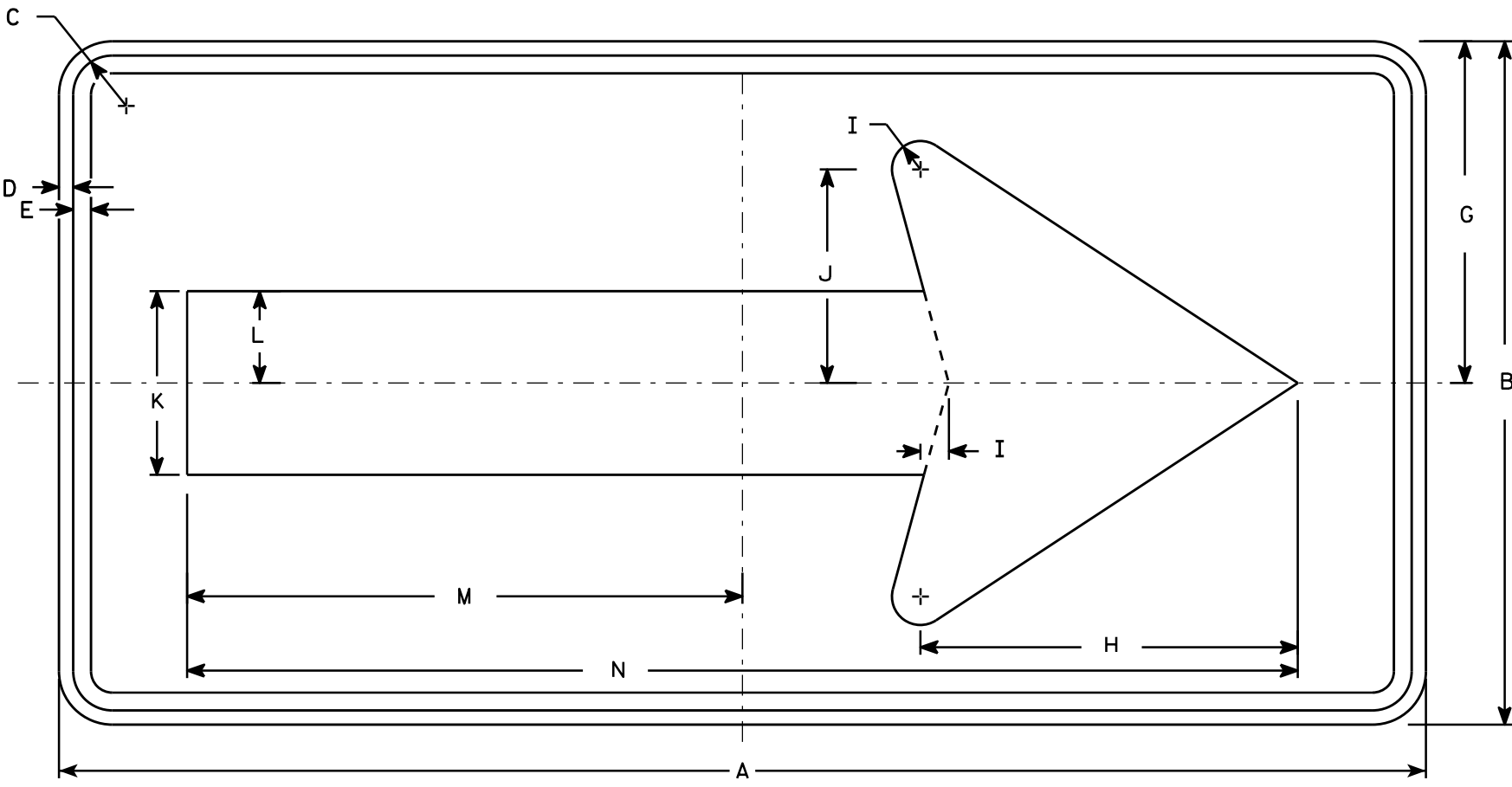
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W54-57.9

NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Orange
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.



W01-6

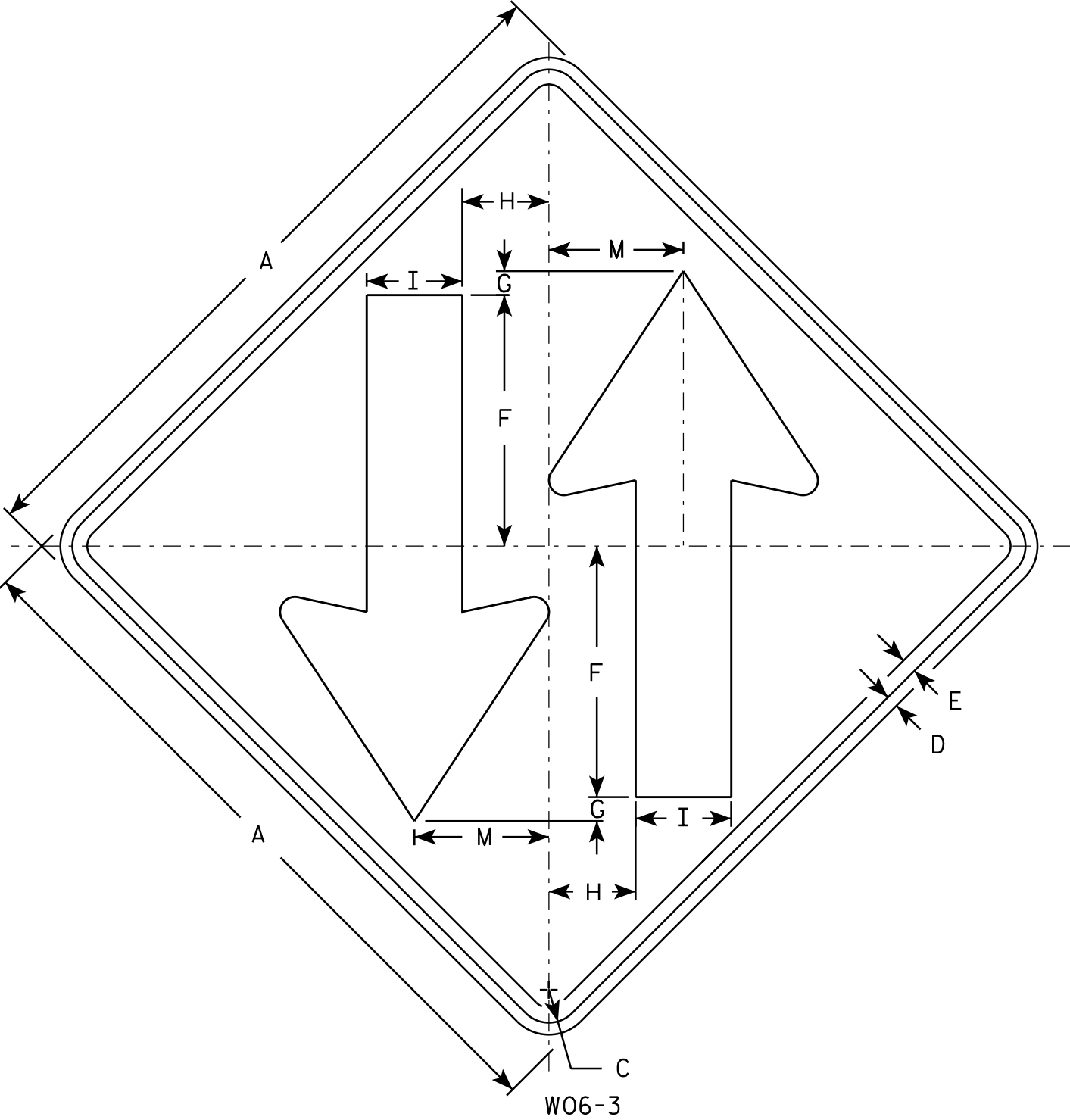
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

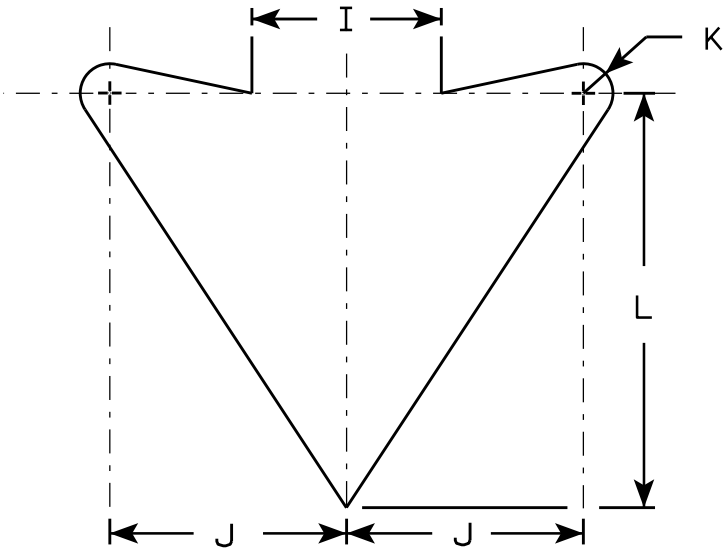
DATE 11/18/13 PLATE NO. W01-6.1



W06-3

NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Orange
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.



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	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2S	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
2M	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
3	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

STANDARD SIGN
W06 - 3

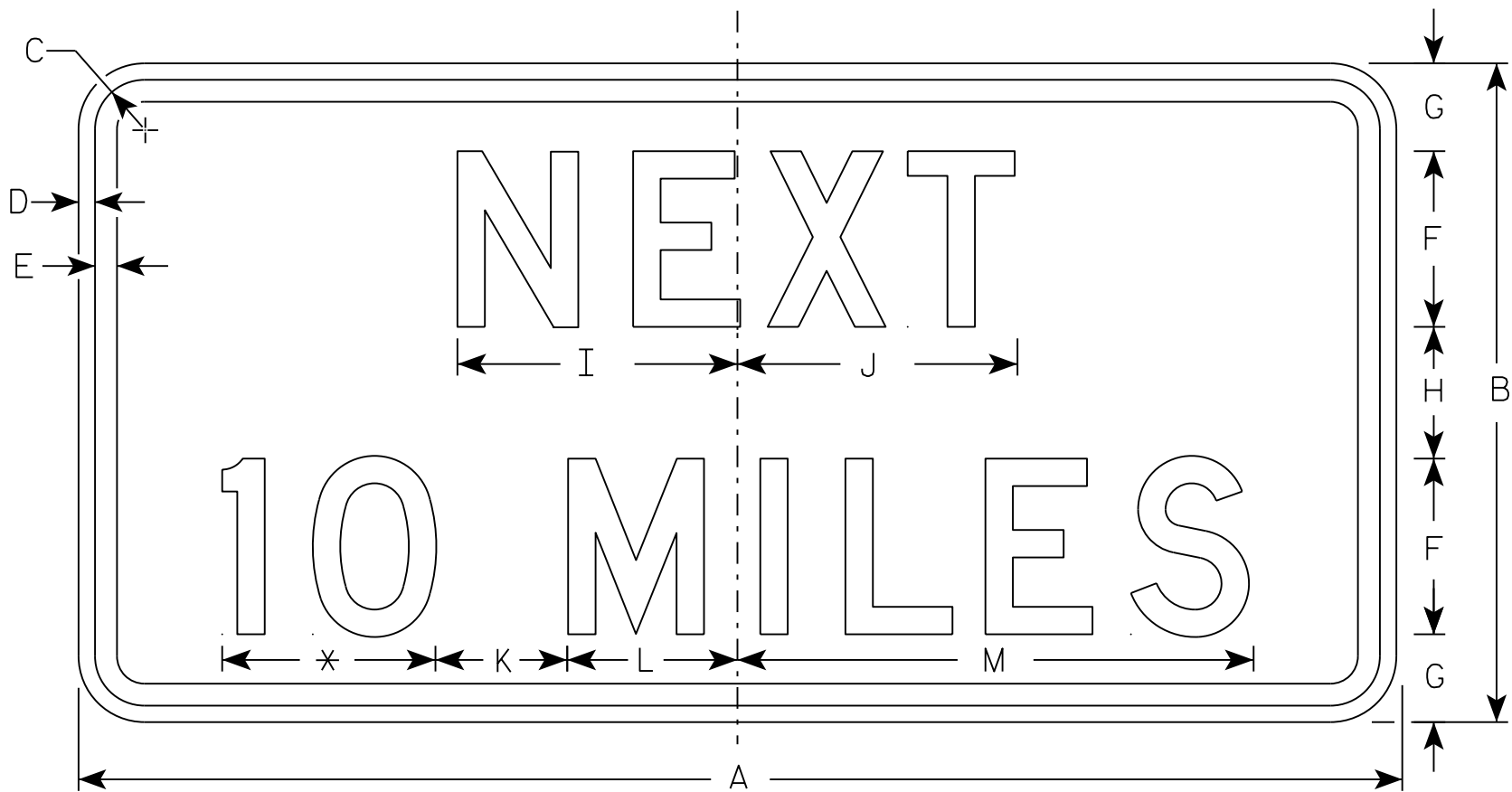
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE NO. W06-3.1

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Orange
Message - Black
- 3. Message Series - D
- 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 the nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance.



W057-51

* See note 5

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	18	1 1/8	3/8	1/2	5	2 5/8	2 3/4	7 7/8	8	5	4 1/8	15 3/8														4.5
2S	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
2M	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
3	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
4	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
5	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
W057-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. W057-51.2

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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