

MAD
WITH: PROJECT ID: 1000-20-76
COUNTY: STATEWIDE

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	Cross Sections

TOTAL SHEETS = 170



DESIGN DESIGNATION

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

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

STATEWIDE TYPE 1 SIGN REPLACEMENT

LOCATION ON STN PER ANNUAL PLAN

NON HWY
STATEWIDE

STATE PROJECT NUMBER
1000-20-76



LAYOUT
SCALE 0

TOTAL NET LENGTH OF CENTERLINE =

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

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1000-20-76		

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	
Designer	JAY HILLE
Project Manager	MATT RAUCH
Regional Examiner	
Regional Supervisor	TRAVIS FELTES

APPROVED FOR THE DEPARTMENT

DATE: 2-1-18 *Travis Feltes*
(Signature)

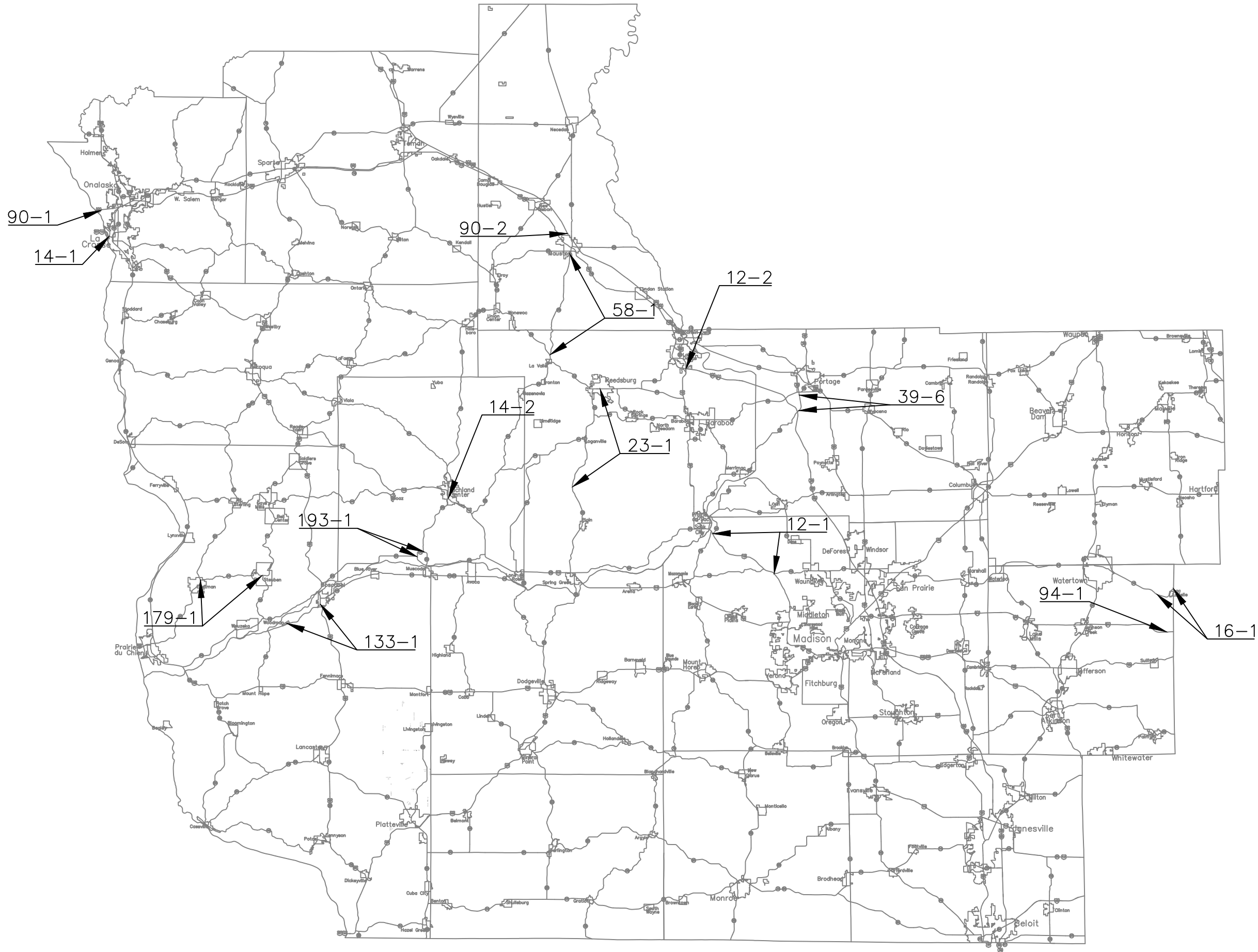
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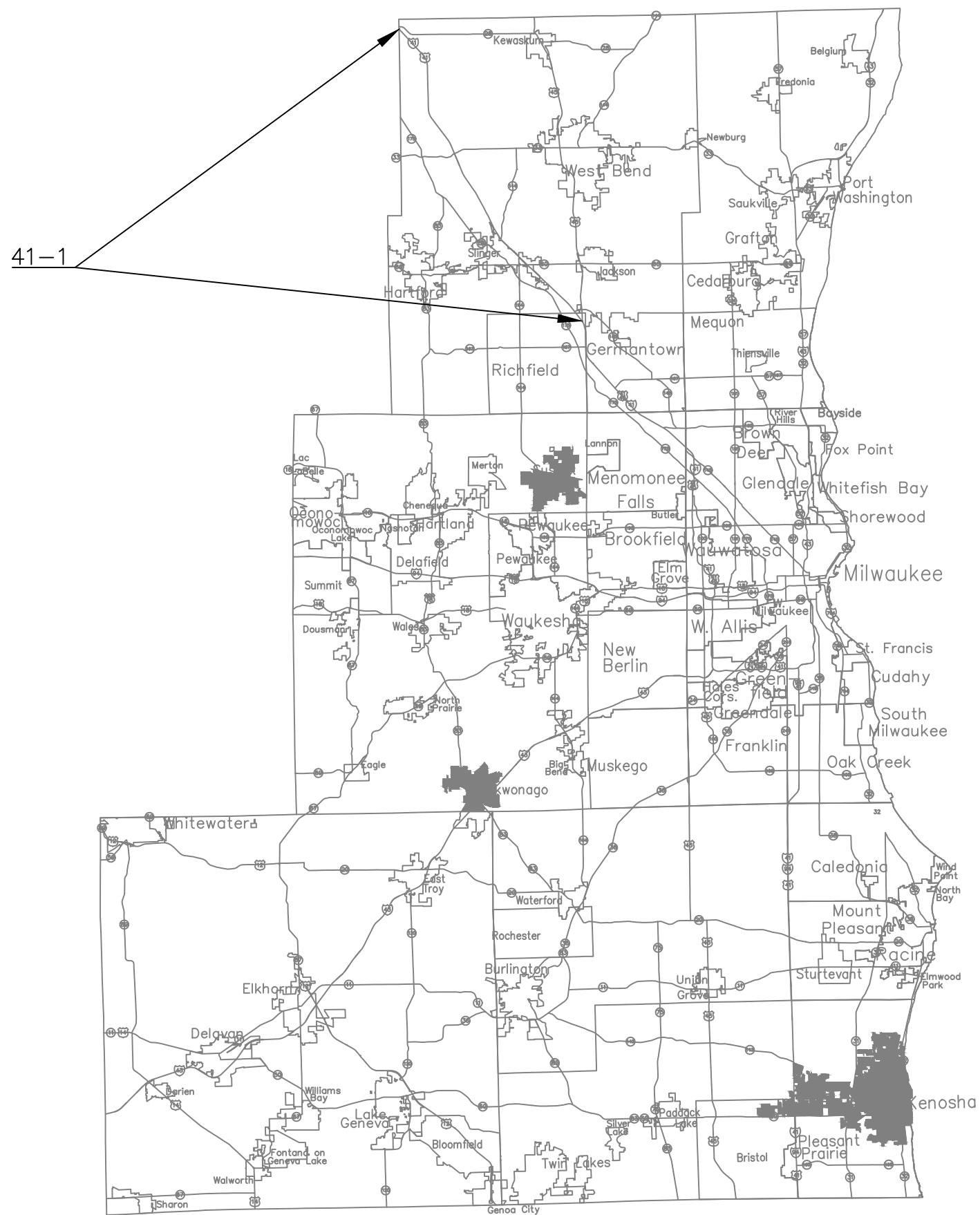
GENERAL NOTES

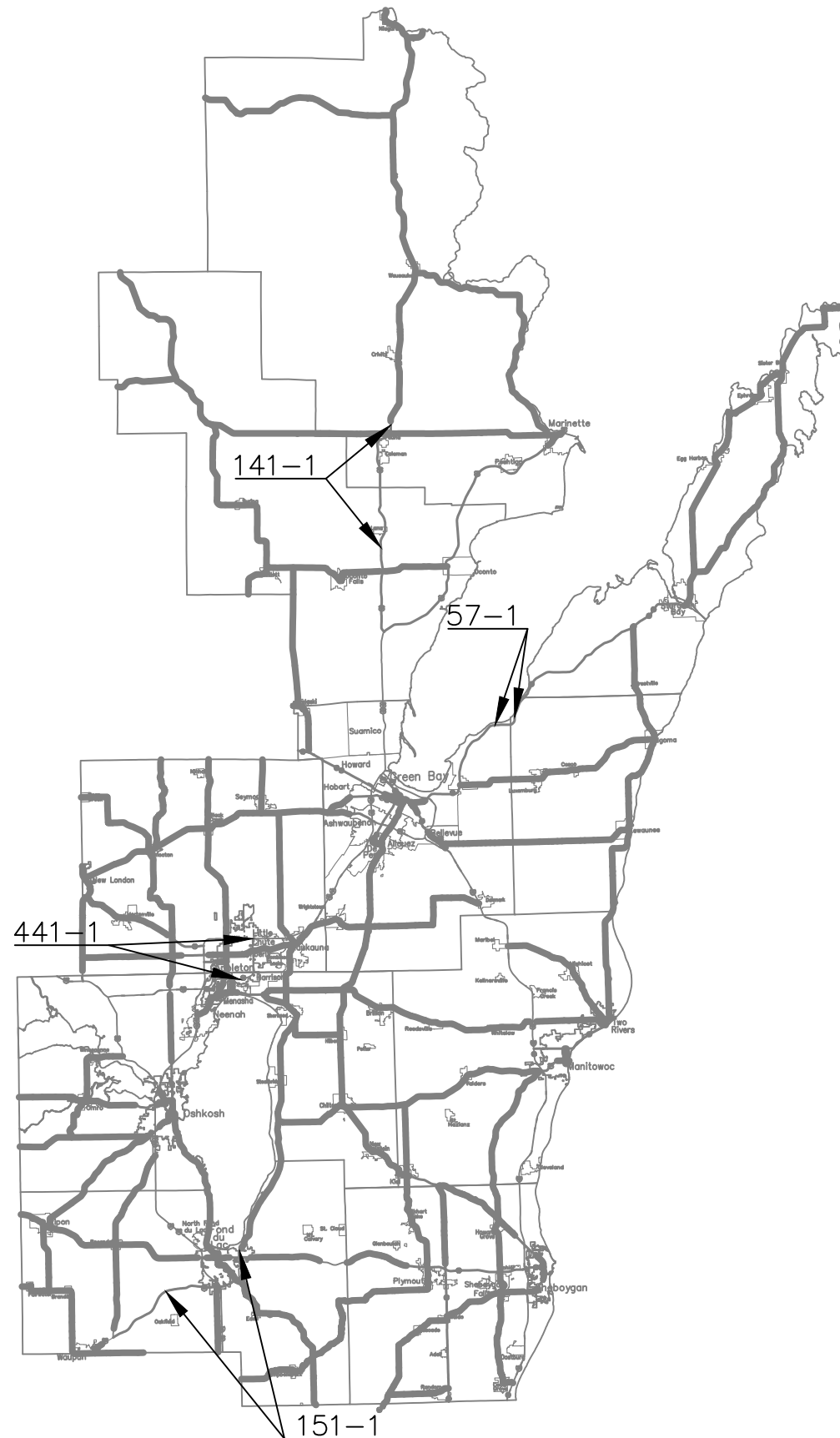
THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

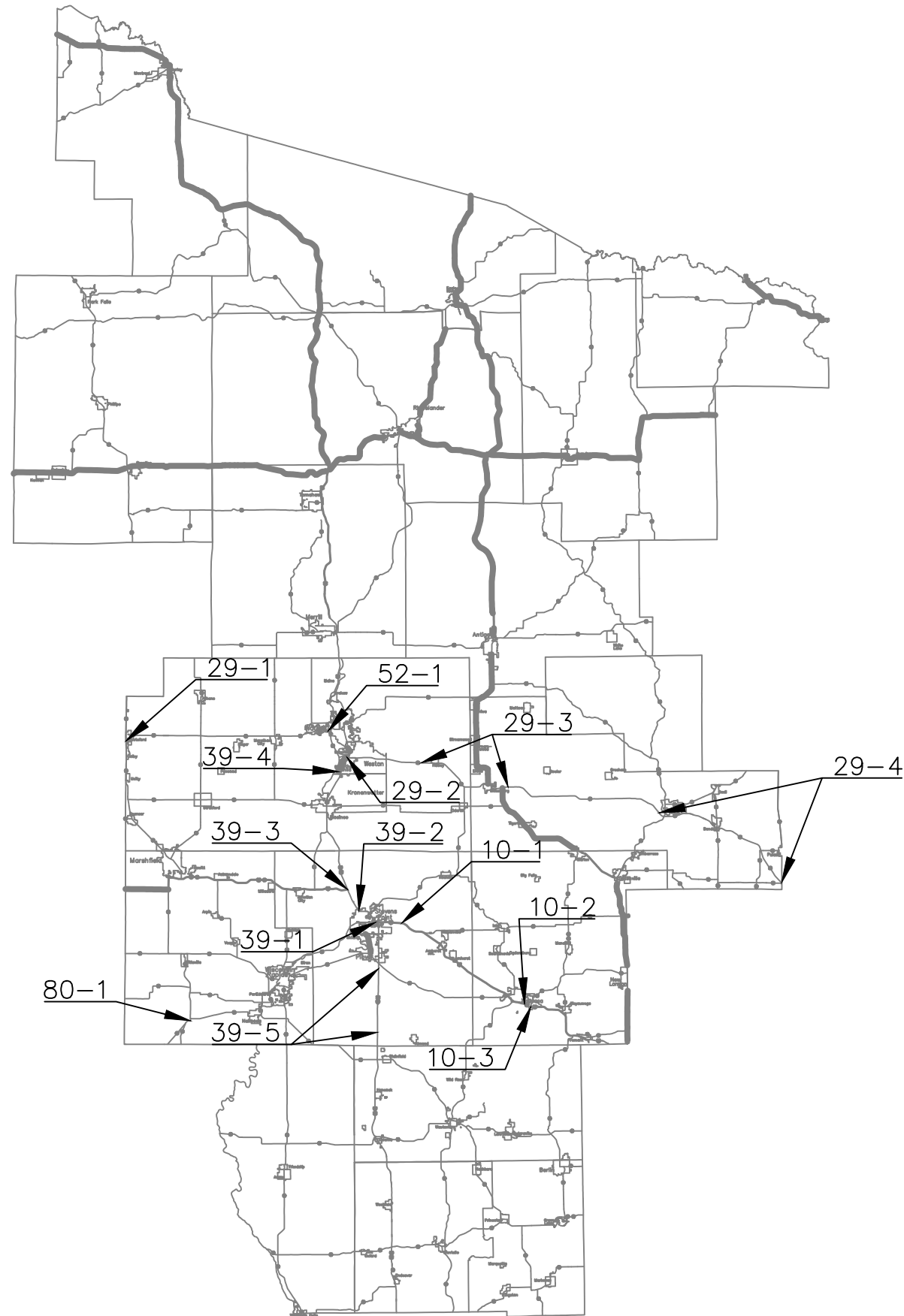


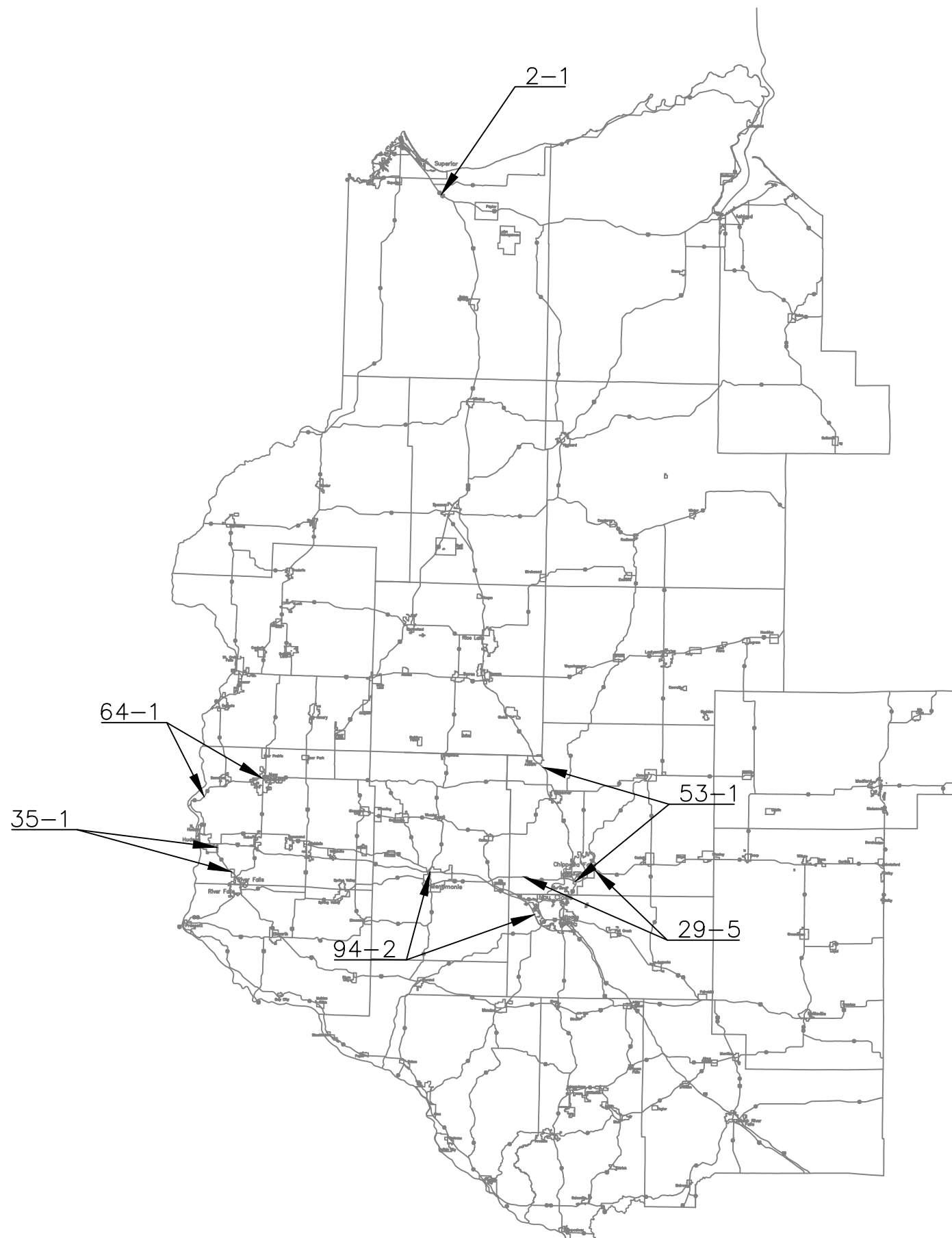
Dial  or (800) 242-8511
www.DiggersHotline.com

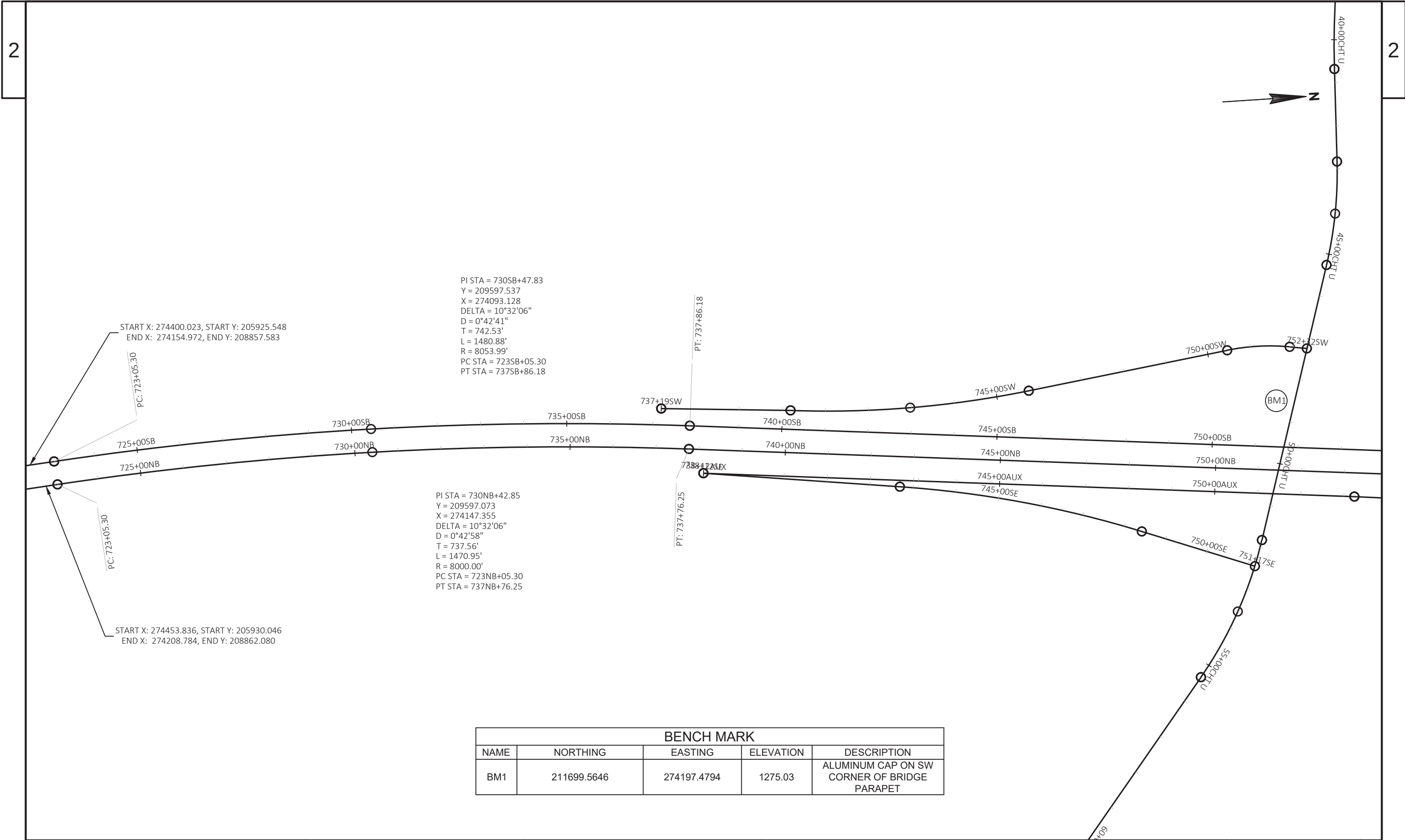












Estimate Of Quantities

1000-20-76

Line	Item	Item Description	Unit	Total	Qty
0002	305.0110	Base Aggregate Dense 3/4-Inch	TON	152.000	152.000
0004	614.0010	Barrier System Grading Shaping Finishing	EACH	1.000	1.000
0006	614.2300	MGS Guardrail 3	LF	325.000	325.000
0008	614.2610	MGS Guardrail Terminal EAT	EACH	1.000	1.000
0010	614.2620	MGS Guardrail Terminal Type 2	EACH	1.000	1.000
0012	619.1000	Mobilization	EACH	1.000	1.000
0014	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	31.000	31.000
0016	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	71.000	71.000
0018	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	6.000	6.000
0020	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	23.000	23.000
0022	635.0200	Sign Supports Structural Steel HS	LB	37,588.400	37,588.400
0024	635.0300	Sign Supports Replacing Base Connection Bolts	EACH	167.000	167.000
0026	635.9010.S	Sign Supports Shorten Structural Steel	EACH	18.000	18.000
0028	636.0100	Sign Supports Concrete Masonry	CY	74.400	74.400
0030	636.0500	Sign Supports Steel Reinforcement	LB	3,858.000	3,858.000
0032	636.1500	Sign Supports Steel Coated Reinforcement HS	LB	990.000	990.000
0034	637.1220	Signs Type I Reflective SH	SF	38,132.500	38,132.500
0036	637.1230	Signs Type I Reflective F	SF	1,065.000	1,065.000
0038	637.2210	Signs Type II Reflective H	SF	423.760	423.760
0040	637.2230	Signs Type II Reflective F	SF	927.250	927.250
0042	638.2101	Moving Signs Type I	EACH	2.000	2.000
0044	638.2601	Removing Signs Type I	EACH	230.000	230.000
0046	638.2602	Removing Signs Type II	EACH	129.000	129.000
0048	638.3000	Removing Small Sign Supports	EACH	108.000	108.000
0050	638.3100	Removing Structural Steel Sign Supports	EACH	70.000	70.000
0052	638.3210	Revising Signs Type I Demountable	EACH	5.000	5.000
0054	641.1200	Sign Bridge Cantilevered (structure) 01. S-37-159	LS	1.000	1.000
0056	SPV.0105	Special 01. Traffic Control (project) 1000-20-76	LS	1.000	1.000
0058	SPV.0165	Special 01. Modifying Signs Type I	SF	24.000	24.000

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STEEL PLATE BEAM GUARD						
Marathon County USH 51 from Bridge St to CTH U		305.0110 Base Aggregate Dense 3/4-Inch TON	614.0100 Barrier System Grading Shaping Finishing EACH	614.2300 MGS Guardrail 3 LF	614.2610 MGS Guardrail Terminal EAT EACH	614.2620 MGS Guardrail Terminal Type 2 EACH
STATION - STATION	LOCATION					
732+38 - 732+60	RT	-	-	325	-	-
731+88 - 732+38	RT	-	-	-	1	-
730+67 - 735+80	RT	152	1	-	-	-
735+60 - 735+68	RT	-	-	-	-	1
TOTALS		152	1	325	1	1

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FOR INFORMATION PURPOSES ONLY*						
Marathon County USH 51 from Bridge St to CTH U		208.0100** Borrow	628.2008 Erosion Mat Urban Class I Type B Each	629.0210 Fertilizer Type B CWT	630.0130 Seeding Mixture No. 30 LBS	650.9920 Construction Staking Slope Stakes LF
STATION - STATION LOCATION		TON	EACH	CWT	LBS	LF
732+38 - 732+60 RT		19	138	1	3	450

*All items in this table incidental to Barrier System Grading Shaping Finishing
** Can be replaced with Topsoil

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Dane County USH 12 From STH 78 to Endres Rd									635.0300 Sign Supports Replacing Base Connection Bolts EACH	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH		
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES					NOTES		
12-1-1R	USH 12 EB	234.97					[CAR] Park & Ride [LA]			1	2	Remove existing sign and supports		
12--2R	USH 12 EB	235.29					Middleton 17 Madison 24			1		Remove existing sign Existing steel supports to remain		
12-1-3	USH 12 EB	235.29	D2-2	Destination/Distance (Two)	168	60	Middleton 17 Madison 24	1	70			Install new sign on existing steel supports (Type B bases and supports)		
12-1-4R	USH 12 EB	244.95					[CAR] Park & Ride NEXT LEFT			1	2	Remove existing sign and supports		
12-1-5R	USH 12 WB	245.31					[CAR] Park & Ride NEXT RIGHT			1	2	Remove existing sign and supports		
12-1-6R	USH 12 EB	235.28					[CAR] Park & Ride [RA]			1	2	Remove existing sign and supports		
SEGMENT SUBTOTALS									1	70	5	8		

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Sauk County USH 12 From CTH BD to Gasser Rd									634.0618 Posts Wood 4 x 6 - Inch 18 Foot EACH	635.0200 Sign Supports Structural Steel HS LBS	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	637.2210 Signs Type II Reflective H SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH		
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES											NOTES	
12-2-1R	USH 12 EB	211.60					90 94 EAST Madison Milwaukee EXIT [DA] ONLY							1				S-56-9 Remove existing sign and I beams	
12-2-2	USH 12 EB	211.60	E1-5-P E6-51	Exit Number Panel Advance Exit Guide Sign (Overhead)	120 168	30 144	EXIT 211B EAST EAST 90 94 Madison EXIT [DA] ONLY					25 168						S-56-9 I beams incidental	
12-2-3R	USH 12 EB	211.60					90 94 WEST La Crosse [TR] Eau Claire							1				S-56-9 Remove existing sign and I beams	
12-2-4	USH 12 EB	211.60	E1-5-P E6-1	Exit Number Panel Exit Direction Sign (Overhead)	120 180	30 114	EXIT 211A WEST WEST 90 94 Tomah [TR]					25 142.5						S-56-9 I beams incidental	
12-2-5R	USH 12EB	211.73					EXIT [TR]									1	2	Remove existing sign and posts	
12-2-6	USH 12 EB	211.75	E5-1B	Exit Number and Letter (Arrow)	114	60	EXIT 211A [TR]	2					47.5					Install new sign 75' south of existing sign (1215' south of Gasser Rd)	
12-2-7R	USH 12 EB	211.77					EAST EAST 90 94 [RB] [RB]									1	1	Remove existing sign and posts	
12-2-8R	USH 12 EB	211.85					[UA] Baraboo									1	1	Remove existing sign and posts	
12-2-9	USH 12 EB	211.90	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	120 204	30 120	EXIT 211B 90 94 EAST Madison [TR]		1077.8	1.6		98	25 170					Install new sign next to existing ramp speed sign (1970' south of Gasser Rd) (Type A bases and supports)	
12-2-10R	USH 12 EB	211.99					EAST EAST 90 94 [TR] [TR]									1	2	Remove existing sign and supports	
12-2-11	USH 12 EB	211.75	E5-1B	Exit Number and Letter (Arrow)	114	60	EXIT 211B [TR]	2					47.5					Install new sign 10' south of sign 12-2-10R (270' south of IH 90)	
12-2-12	USH 12 WB	213.34	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	156 156	30 162	EXITS 211A-B 90 94 Madison Tomah 1/2 MILE		1173.8	1.6		98	32.5 175.5					Install new sign 350' west of CTH BD (Type B bases and supports)	
12-2-13	USH 12 WB	213.03					JCT JCT 90 94									1	1	Remove existing sign and post	
12-2-14R	USH 12 WB	212.88					90 94 WEST La Crosse Eau Claire EXIT [DA] ONLY							1				S-56-8 Remove existing sign and I beams	
12-2-15	USH 12 WB	212.88	E1-5-P E6-51	Exit Number Panel Advance Exit Guide Sign (Overhead)	120 168	30 144	EXIT 211A WEST WEST 90 94 Tomah EXIT [DA] ONLY						25 168					S-56-8 I beams incidental	
12-2-16R	USH 12 WB	212.88					EXIT 211B 90 94 EAST Madison [TR] Milwaukee							1				S-56-8 Remove existing sign and I beams	
12-2-17	USH 12 WB	212.88	E1-5-P E6-1	Exit Number Panel Exit Direction Sign (Overhead)	120 180	30 114	EXIT 211B EAST EAST 90 94 Madison [TR]						25 142.5					S-56-8 I beams incidental	
12-2-18R	USH 12 WB	212.80					EXIT [TR]									1	2	Remove existing sign and posts	
12-2-19	USH 12 WB	211.75	E5-1B	Exit Number and Letter (Arrow)	114	60	EXIT 211B [TR]	2					47.5					Install new sign 10' north of existing sign (3425' west of CTH BD)	
12-2-20R	USH 12 WB	211.63					[UA] Wis Dells									1	2	Remove existing sign and posts	
PROJECT NO: 1000-20-76					HWY: VARIOUS					COUNTY: VARIOUS – SW REGION			MISCELLANEOUS QUANTITIES				SHEET NO: 12		E

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Sauk County USH 12 From CTH BD to Gasser Rd									634.0618 Posts Wood 4 x 6 - Inch 18 Foot EACH	635.0200 Sign Supports Structural Steel HS LBS	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	637.2210 Signs Type II Reflective H SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH		
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES											NOTES	
12-2-21	USH 12 WB	211.6	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	120 204	30 120	EXIT 211A 90 94 WEST Tomah [TR]		1077.8	1.6	98	25 170						Install new sign next to existing ramp speed sign (4225' west of CTH BD) (Type A bases and supports)	
12-2-22R	USH 12 WB	211.51					EAST EAST 90 94 [TR] [TR]									1	2	Remove existing sign and supports	
12-2-23	USH 12 WB	211.51	E5-1B	Exit Number and Letter (Arrow)	114	60	EXIT 211A [TR]		2				47.5					Install new sign 10' south of sign 12-2-22R (270' north of IH 90)	
SEGMENT SUBTOTALS									8	3329.4	4.8	294	1319	190	4	8	13		
La Crosse County USH 14 From Minnesota to USH 53										637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH								
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES				NOTES								
14-1-1R	USH 14 EB	3rd St Intersection					NORTH EAST NORTH 53 16 M1-96 [DA]			1	S-32-33 Remove existing sign Existing I beams to remain								
14-1-2	USH 14 EB	3rd St Intersection	D16-1	Destination Guide Sign	108	66	NORTH EAST NORTH 53 16 M1-96 [DA]		49.5		S-32-33 Install new sign on existing I beams								
14-1-3R	USH 14 EB	3rd St Intersection					EAST SOUTH SOUTH 14 61 M1-96 [DA]			1	S-32-33 Remove existing sign Existing I beams to remain								
14-1-4	USH 14 EB	3rd St Intersection	D16-1	Destination Guide Sign	108	66	EAST SOUTH SOUTH 14 61 M1-96 [DA]		49.5		S-32-33 Install new sign on existing I beams								
SEGMENT SUBTOTALS									99	2									
Richland County USH 14 From Sextonville Rd to STH 80										637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH							
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES				NOTES								
14-2-1R	USH 14 WB	STH 80 South Intersection					SOUTH 80 [DA]			1	S-52-1 Remove existing sign and bracket								
14-2-2	USH 14 WB	STH 80 South Intersection	D16-1	Destination Guide Sign	36	66	SOUTH 80 [DA]		16.5		S-52-1 I beams incidental								
14-2-3R	USH 14 WB	STH 80 South Intersection					WEST NORTH 14 80 [DA]			1	S-52-1 Remove existing sign Existing I beams to remain								
14-2-4	USH 14 WB	STH 80 South Intersection	D16-1	Destination Guide Sign	72	66	WEST NORTH 14 80 [DA]		33		S-52-1 Install new sign on existing I beams								
SEGMENT SUBTOTALS									49.5	1	1								
PROJECT NO: 1000-20-76					HWY: VARIOUS				COUNTY: VARIOUS – SW REGION				MISCELLANEOUS QUANTITIES				SHEET NO: 13		E

3

Jefferson County STH 16 From River Valley Rd to Waukesha County								635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	637.1230 Signs Type I Reflective F SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES									NOTES
16-1-1	STH 16 EB	Wisconsin Ave Interchange	E1-51-A	Advance Exit Guide Sign	264	78	Wisconsin Ave EXIT 1 1/4 MILE	985.8		1.6	98	143				Install new sign 100' east of River Valley Rd (Type A bases and supports)
16-1-2R	STH 16 EB	Wisconsin Ave Interchange					Oconomowoc EXIT 1 1/4 MILE							1	2	Remove existing sign and steel supports
16-1-3R	STH 16 EB	Wisconsin Ave					Oconomowoc NEXT 3 EXITS							1		Remove existing sign Existing steel supports to remain
16-1-4	STH 16 EB	Wisconsin Ave	E9-1	(area) Next _ Exits	156	54	Oconomowoc NEXT 3 EXITS		1			58.5				Install new sign on exsiting steel supports (Type A bases and supports)
16-1-5R	STH 16 EB	Wisconsin Ave Interchange					Oconomowoc [TR]							1		Remove existing sign Existing steel supports to remain
16-1-6	STH 16 EB	Wisconsin Ave Interchange	E4-1-A	Exit Direction Sign with Arrow	300	48	Wisconsin Ave [TR]		1			100				Install new sign on exsiting steel supports (Type A bases and supports)
16-1-7R	STH 16 WB	Wisconsin Ave Interchange					Oconomowoc EXIT 1 MILE							1		Remove existing sign Existing steel supports to remain
16-1-8	STH 16 WB	Wisconsin Ave Interchange	E1-51-A	Advance Exit Guide Sign	264	78	Wisconsin Ave EXIT 1 MILE		1			143				Install new sign on exsiting steel supports (Type A bases and supports)
16-1-9R	STH 16 WB	Wisconsin Ave Interchange					Oconomowoc [TR]							1		Remove existing sign Existing steel supports to remain
16-1-10	STH 16 WB	Wisconsin Ave Interchange	E4-1-A	Exit Direction Sign with Arrow	300	48	Wisconsin Ave [TR]		1			100				Install new sign on exsiting steel supports (Type A bases and supports)
16-1-11R	STH 16 WB	Wisconsin Ave Interchange					EXPRESSWAY ENDS 3/4 MILE							1		Remove existing sign Existing steel supports to remain
16-1-12	STH 16 WB	Wisconsin Ave Interchange	W19-1	Expressway Ends, _ MILE	240	102	EXPRESSWAY ENDS 3/4 MILE		1				170			Install new sign on exsiting steel supports (Type A bases and supports)
16-1-13R	STH 16 WB	Wisconsin Ave Interchange					EXPRESSWAY ENDS 3/4 MILE							1		Remove existing sign Existing steel supports to remain
16-1-14	STH 16 WB	Wisconsin Ave Interchange	W19-1	Expressway Ends, _ MILE	240	102	EXPRESSWAY ENDS 3/4 MILE		1				170			Install new sign on exsiting steel supports (Type A bases and supports)
SEGMENT SUBTOTALS								985.8	6	1.6	98	544.5	340	7	2	
PROJECT NO: 1000-20-76					HWY: VARIOUS			COUNTY: VARIOUS – SW REGION			MISCELLANEOUS QUANTITIES			SHEET NO: 14		E

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Sauk County STH 23 From CTH GG to CTH K (Reedsburg) STH 23 EB mi at CTH GG is 56.14 STH 23 WB mi at CTH K is 17.54									634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	634.0616 Posts Wood 4 x 6 - Inch 16 Foot EACH	637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	NOTES		
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES								
23-1-1R	_023E	59.22 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in		1		6.25	1	1		New Sign and Post 450' North of Existing 700 Feet North of Highland Rd	
23-1-2	_023E	59.31 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in									
23-1-3R	_023E	67.07 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in									
23-1-4	_023E	67.16 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in		1		6.25	1	1			New Sign and Post 450' North of Existing 100 Feet South of Hackbarth Rd
23-1-5R	_023W	19.17 mi	Right	W1-4-R	Right Reverse Curve	36.00 in	36.00 in									
23-1-6	_023W	19.31 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in									
23-1-7R	_023W	27.12 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in		1		6.25	1	1			
23-1-8	_023W	30.08 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in									
SEGMENT SUBTOTALS									2	2	25	4	4			

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Sauk and Juneau Counties STH 58 From STH 33 (La Valle) to CTH G (Mauston) STH 58 NB mi at STH 33 is 25.53. STH 58 SB mi at CTH G is 12.79									634.0612 Posts Wood 4 x 6 - Inch 12 Foot EACH	634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	634.0616 Posts Wood 4 x 6 - Inch 16 Foot EACH	637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	NOTES			
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES										
58-1-1R	_058N	25.72 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in		1				1	1	Attached to the Same Post as Sign 58-1R			
58-1-2R	_058N	25.72 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50										
58-1-3	_058N	25.78 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in						1	6.25			New Sign and Post 300' North of Existing 0.25 Miles North of STH 33	
58-1-4R	_058N	26.21 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in									1	1	Attached to the Same Post as Sign 58-4R
58-1-5R	_058N	26.21 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50										
58-1-6R	_058N	27.59 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in									1	1	Attached to the Same Post as Sign 58-6R
58-1-7R	_058N	27.59 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45										
58-1-8R	_058N	27.96 mi	Right	W1-4-L	Left Reverse Curve	30.00 in	30.00 in									1	1	Attached to the Same Post as Sign 58-8R
58-1-9R	_058N	27.96 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45										
58-1-10R	_058N	28.48 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in									1		Attached to the Same Post as Sign 58-10R Place New Sign on Existing Post Place New Sign on Existing Post
58-1-11R	_058N	28.48 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	40										
58-1-12	_058N	28.48 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in								6.25			
58-1-13	_058N	28.48 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45							2.25			
58-1-14R	_058N	29.06 mi	Right	W1-5-R	Right Winding Road	30.00 in	30.00 in									1		Attached to the Same Post as Sign 58-14R Place New Sign on Existing Post Place New Sign on Existing Post
58-1-15R	_058N	29.06 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	35										
58-1-16	_058N	29.06 mi	Right	W1-5-R	Right Winding Road	30.00 in	30.00 in								6.25			
58-1-17	_058N	29.06 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	35							2.25			
58-1-18R	_058N	29.16 mi	Left	W1-8	Chevron	18.00 in	24.00 in											Behind South Bound Sign Attached to the Same Post as Sign 58-107R 0.27 Miles North of CTH F
58-1-19	_058N	29.16 mi	Left	W1-8	Chevron	18.00 in	24.00 in						1		3.00			
58-1-20R	_058N	29.18 mi	Left	W1-6	Night Arrow (Single)	48.00 in	24.00 in									1	1	0.29 Miles North of CTH F
58-1-21	_058N	29.18 mi	Left	W1-8	Chevron	18.00 in	24.00 in							1	3.00			
58-1-22R	_058N	29.20 mi	Left	W1-8	Chevron	18.00 in	24.00 in											Behind South Bound Sign Attached to the Same Post as Sign 58-103R 0.31 Miles North of CTH F
58-1-23	_058N	29.20 mi	Left	W1-8	Chevron	18.00 in	24.00 in							1	3.00			
58-1-24R	_058N	29.21 mi	Left	W1-6	Night Arrow (Single)	48.00 in	24.00 in									1	1	Behind South Bound Sign Attached to the Same Post as Sign 58-101R 0.33 Miles North of CTH F
58-1-25R	_058N	29.22 mi	Left	W1-8	Chevron	18.00 in	24.00 in											
58-1-26	_058N	29.22 mi	Left	W1-8	Chevron	18.00 in	24.00 in							1	3.00			Place New Sign on Existing Post
58-1-27R	_058N	29.31 mi	Right	W1-6	Night Arrow (Single)	48.00 in	24.00 in									1		
58-1-28	_058N	29.31 mi	Right	W1-6	Night Arrow (Single)	48.00 in	24.00 in									8.00		
58-1-29	_058N	29.35 mi	Left	W1-8	Chevron	18.00 in	24.00 in							1	3.00			300 Feet South of Springer Rd
58-1-30R	_058N	29.37 mi	Left	W1-8	Chevron	18.00 in	24.00 in											Behind South Bound Sign Attached to the Same Post as Sign 58-95R 200 Feet South of Springer Rd
58-1-31	_058N	29.37 mi	Left	W1-8	Chevron	18.00 in	24.00 in							1	3.00			
58-1-32R	_058N	29.38 mi	Left	W1-6	Night Arrow (Single)	48.00 in	24.00 in									1	1	
PROJECT NO: 1000-20-76						HWY: VARIOUS		COUNTY: VARIOUS – SW REGION			MISCELLANEOUS QUANTITIES			SHEET NO: 16		E		

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Sauk and Juneau Counties STH 58 From STH 33 (La Valle) to CTH G (Mauston) STH 58 NB mi at STH 33 is 25.53. STH 58 SB mi at CTH G is 12.79									634.0612 Posts Wood 4 x 6 - Inch 12 Foot EACH	634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	634.0616 Posts Wood 4 x 6 - Inch 16 Foot EACH	637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH		
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES							NOTES	
58-1-33	_058N	29.39 mi	Left	W1-8	Chevron	18.00 in	24.00 in			1		3.00			100 Feet South of Springer Rd	
58-1-34	_058N	29.41 mi	Left	W1-8	Chevron	18.00 in	24.00 in			1		3.00			At Springer Rd, Southwest Corner	
58-1-35R	_058N	29.42 mi	Left	W1-8	Chevron	18.00 in	24.00 in								Behind South Bound Sign Attached to the Same Post as Sign 58-90R	
58-1-36	_058N	29.43 mi	Left	W1-8	Chevron	18.00 in	24.00 in			1		3.00			At Springer Rd, Northwest Corner	
58-1-37R	_058N	29.45 mi	Left	W1-8	Chevron	18.00 in	24.00 in								Behind South Bound Sign Attached to the Same Post as Sign 58-88R	
58-1-38	_058N	29.45 mi	Left	W1-8	Chevron	18.00 in	24.00 in			1		3.00			100 Feet North of Springer Rd	
58-1-39R	_058N	29.47 mi	Left	W1-8	Chevron	18.00 in	24.00 in								Behind South Bound Sign Attached to the Same Post as Sign 58-86R	
58-1-40	_058N	29.47 mi	Left	W1-8	Chevron	18.00 in	24.00 in			1		3.00			200 Feet North of Springer Rd	
58-1-41R	_058N	29.49 mi	Left	W1-8	Chevron	18.00 in	24.00 in								Behind South Bound Sign Attached to the Same Post as Sign 58-84R	
58-1-42	_058N	29.49 mi	Left	W1-8	Chevron	18.00 in	24.00 in			1		3.00			300 Feet North of Springer Rd	
58-1-43R	_058N	29.51 mi	Left	W1-8	Chevron	18.00 in	24.00 in								Behind South Bound Sign Attached to the Same Post as Sign 58-81R	
58-1-44	_058N	29.51 mi	Left	W1-8	Chevron	18.00 in	24.00 in			1		3.00			400 Feet North of Springer Rd	
58-1-45	_058N	29.56 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1			3.00			650' Feet North of Springer Rd	
58-1-46R	_058N	29.57 mi	Right	W1-8	Chevron	18.00 in	24.00 in						1	1	Has South Bound Sign on Back	
58-1-47	_058N	29.58 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1			3.00			750' Feet North of Springer Rd	
58-1-48R	_058N	29.59 mi	Right	W1-6	Night Arrow (Single)	48.00 in	24.00 in						1	1	Has South Bound Sign on Back	
58-1-49	_058N	29.60 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1			3.00			850' Feet North of Springer Rd	
58-1-50R	_058N	29.61 mi	Right	W1-8	Chevron	18.00 in	24.00 in						1	1	Has South Bound Sign on Back	
58-1-51	_058N	29.62 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1			3.00			950' Feet North of Springer Rd	
58-1-52	_058N	29.64 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1			3.00			1050' Feet North of Springer Rd	
58-1-53	_058N	29.66 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1			3.00			1150' Feet North of Springer Rd	
58-1-54R	_058N	29.67 mi	Right	W1-8	Chevron	18.00 in	24.00 in						1	1	Has South Bound Sign on Back	
58-1-55	_058N	29.68 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1			3.00			1250' Feet North of Springer Rd	
58-1-56R	_058N	30.34 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in						1		Place New Sign on Existing Post	
58-1-57	_058N	30.34 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in					6.25				
58-1-58R	_058N	31.59 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in						1		Place New Sign on Existing Post	
58-1-59	_058N	31.59 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in					6.25				
58-1-60R	_058N	32.36 mi	Right	W1-4-L	Left Reverse Curve	30.00 in	30.00 in						1	1	Attached to the Same Post as Sign 58-58R	
58-1-61R	_058N	32.36 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45								
PROJECT NO: 1000-20-76					HWY: VARIOUS			COUNTY: VARIOUS – SW REGION			MISCELLANEOUS QUANTITIES			SHEET NO: 17		E

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Sauk and Juneau Counties STH 58 From STH 33 (La Valle) to CTH G (Mauston) STH 58 NB mi at STH 33 is 25.53. STH 58 SB mi at CTH G is 12.79									634.0612 Posts Wood 4 x 6 - Inch 12 Foot EACH	634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	634.0616 Posts Wood 4 x 6 - Inch 16 Foot EACH	637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	NOTES
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES							
58-1-62R	_058N	33.33 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in						1		
58-1-63	_058N	33.33 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in					6.25			Place New Sign on Existing Post
58-1-64R	_058S	19.87 mi	Right	W1-4-L	Left Reverse Curve	30.00 in	30.00 in						1	1	
58-1-65R	_058S	19.87 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45							Attached to the Same Post as Sign 58-62R
58-1-66	_058S	19.87 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in				1	6.25			0.40 Miles North of Waffle Rd
58-1-67R	_058S	22.98 mi	Right	W1-5-R	Right Winding Road	30.00 in	30.00 in						1		
58-1-68R	_058S	22.98 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	35							Attached to the Same Post as Sign 58-14R
58-1-69	_058S	22.98 mi	Right	W1-5-R	Right Winding Road	30.00 in	30.00 in					6.25			Place New Sign on Existing Post
58-1-70	_058S	22.98 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	35				2.25			Place New Sign on Existing Post
58-1-71R	_058S	23.07 mi	Left	W1-8	Chevron	18.00 in	24.00 in								Behind North Bound Sign
58-1-72	_058S	23.07 mi	Left	W1-8	Chevron	18.00 in	24.00 in		1			3.00			Attached to the Same Post as Sign 58-54R
58-1-73	_058S	23.09 mi	Left	W1-8	Chevron	18.00 in	24.00 in		1			3.00			1350' Feet North of Springer Rd
58-1-74R	_058S	23.10 mi	Left	W1-6	Night Arrow (Single)	48.00 in	24.00 in						1	1	1250' Feet North of Springer Rd
58-1-75	_058S	23.11 mi	Left	W1-8	Chevron	18.00 in	24.00 in		1			3.00			
58-1-76R	_058S	23.12 mi	Left	W1-8	Chevron	18.00 in	24.00 in								1150' Feet North of Springer Rd
58-1-77	_058S	23.13 mi	Left	W1-8	Chevron	18.00 in	24.00 in		1			3.00			Behind North Bound Sign
58-1-78R	_058S	23.14 mi	Left	W1-8	Chevron	18.00 in	24.00 in								Attached to the Same Post as Sign 58-50R
58-1-79	_058S	23.15 mi	Left	W1-8	Chevron	18.00 in	24.00 in		1			3.00			1050' Feet North of Springer Rd
58-1-80R	_058S	23.16 mi	Left	W1-8	Chevron	18.00 in	24.00 in								Behind North Bound Sign
58-1-81	_058S	23.17 mi	Left	W1-8	Chevron	18.00 in	24.00 in		1			3.00			Attached to the Same Post as Sign 58-48R
58-1-82	_058S	23.19 mi	Left	W1-8	Chevron	18.00 in	24.00 in		1			3.00			950' Feet North of Springer Rd
58-1-83R	_058S	23.22 mi	Right	W1-8	Chevron	18.00 in	24.00 in						1	1	Behind North Bound Sign
58-1-84	_058S	23.22 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1			3.00			Attached to the Same Post as Sign 58-46R
58-1-85	_058S	23.24 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1			3.00			850' Feet North of Springer Rd
58-1-86R	_058S	23.25 mi	Right	W1-8	Chevron	18.00 in	24.00 in						1	1	750' Feet North of Springer Rd
58-1-87	_058S	23.26 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1			3.00			Has North Bound Sign on Back
58-1-88R	_058S	23.27 mi	Right	W1-6	Night Arrow (Single)	48.00 in	24.00 in						1	1	600' Feet North of Springer Rd
58-1-89	_058S	23.28 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1			3.00			500' Feet North of Springer Rd
58-1-90R	_058S	23.29 mi	Right	W1-8	Chevron	18.00 in	24.00 in						1	1	400' Feet North of Springer Rd
PROJECT NO: 1000-20-76									HWY: VARIOUS		COUNTY: VARIOUS – SW REGION		MISCELLANEOUS QUANTITIES		SHEET NO: 18

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Sauk and Juneau Counties STH 58 From STH 33 (La Valle) to CTH G (Mauston) STH 58 NB mi at STH 33 is 25.53. STH 58 SB mi at CTH G is 12.79									634.0612 Posts Wood 4 x 6 - Inch 12 Foot EACH	634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	634.0616 Posts Wood 4 x 6 - Inch 16 Foot EACH	637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH		
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES							NOTES	
58-1-91	_058S	23.30 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1			3.00			200' Feet North of Springer Rd	
58-1-92R	_058S	23.31 mi	Right	W1-8	Chevron	18.00 in	24.00 in					1	1		Has North Bound Sign on Back	
58-1-93	_058S	23.32 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1			3.00			100' Feet North of Springer Rd	
58-1-94	_058S	23.34 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1			3.00			At Springer Rd, Northwest Corner	
58-1-95R	_058S	23.27 mi	Right	W1-6	Night Arrow (Single)	48.00 in	24.00 in					1	1			
58-1-96	_058S	23.36 mi	Right	W1-8	Chevron	18.00 in	24.00 in			1		3.00			At Springer Rd, Southwest Corner	
58-1-97R	_058S	23.37 mi	Right	W1-8	Chevron	18.00 in	24.00 in					1	1		Has North Bound Sign on Back	
58-1-98	_058S	23.38 mi	Right	W1-8	Chevron	18.00 in	24.00 in			1		3.00			100' Feet South of Springer Rd	
58-1-99	_058S	23.40 mi	Right	W1-8	Chevron	18.00 in	24.00 in			1		3.00			200' Feet South of Springer Rd	
58-1-100R	_058S	23.46 mi	Left	W1-6	Night Arrow (Single)	48.00 in	24.00 in					1				
58-1-101	_058S	23.46 mi	Left	W1-6	Night Arrow (Single)	48.00 in	24.00 in					8.00			Place New Sign on Existing Post	
58-1-102	_058S	23.51 mi	Right	W1-8	Chevron	18.00 in	24.00 in			1		3.00			0.35 Miles North of CTH F	
58-1-103R	_058S	23.52 mi	Right	W1-8	Chevron	18.00 in	24.00 in					1	1		Has North Bound Sign on Back	
58-1-104	_058S	23.53 mi	Right	W1-8	Chevron	18.00 in	24.00 in			1		3.00			0.33 Miles North of CTH F	
58-1-105R	_058S	23.54 mi	Right	W1-8	Chevron	18.00 in	24.00 in					1	1		Has North Bound Sign on Back	
58-1-106R	_058S	23.55 mi	Right	W1-6	Night Arrow (Single)	48.00 in	24.00 in					1	1			
58-1-107	_058S	23.55 mi	Right	W1-8	Chevron	18.00 in	24.00 in			1		3.00			0.31 Miles North of CTH F	
581--108	_058S	23.57 mi	Right	W1-8	Chevron	18.00 in	24.00 in			1		3.00			0.29 Miles North of CTH F	
58-1-109R	_058S	23.58 mi	Right	W1-8	Chevron	18.00 in	24.00 in					1	1		Has North Bound Sign on Back	
58-1-110R	_058S	23.58 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in					1				
58-1-111R	_058S	23.58 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	40							Attached to the Same Post as Sign 58-10R	
58-1-112	_058S	23.58 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in					6.25			Place New Sign on Existing Post	
58-1-113	_058S	23.58 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45				2.25			Place New Sign on Existing Post	
58-1-114	_058S	23.59 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1			3.00			0.27 Miles North of CTH F	
58-1-115R	_058S	24.35 mi	Right	W1-4-L	Left Reverse Curve	30.00 in	30.00 in					1	1			
58-1-116R	_058S	24.35 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45							Attached to the Same Post as Sign 58-113R	
58-1-117R	_058S	24.80 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in					1	1			
58-1-118R	_058S	24.80 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45							Attached to the Same Post as Sign 58-115R	
58-1-119R	_058S	26.31 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in					1	1			
58-1-120R	_058S	26.31 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50							Attached to the Same Post as Sign 58-117R	
PROJECT NO: 1000-20-76					HWY: VARIOUS			COUNTY: VARIOUS – SW REGION			MISCELLANEOUS QUANTITIES			SHEET NO: 19		E

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Sauk and Juneau Counties STH 58 From STH 33 (La Valle) to CTH G (Mauston) STH 58 NB mi at STH 33 is 25.53. STH 58 SB mi at CTH G is 12.79									634.0612 Posts Wood 4 x 6 - Inch 12 Foot EACH	634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	634.0616 Posts Wood 4 x 6 - Inch 16 Foot EACH	637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH			
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES							NOTES		
58-1-121R	_058S	26.65 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in						1	1	Attached to the Same Post as Sign 58-119R		
58-1-122R	_058S	26.65 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50									
58-1-123R	_058S	27.18 mi	Left	W1-6	Night Arrow (Single)	48.00 in	24.00 in						1		Place New Sign on Existing Post		
58-1-124	_058S	27.18 mi	Left	W1-6	Night Arrow (Single)	48.00 in	24.00 in					8.00					
SEGMENT SUBTOTALS									23	20	1	215.25	39	29			
La Crosse County IH 90 from Minnesota to CTH B									638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH							
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES			NOTES							
90-1-1R	IH 90 EB	0.81					La Crosse Area Tourist Info TUNE TO 530 AM	1	2	Remove existing sign and supports							
SEGMENT SUBTOTALS									1	2							
Juneau County IH 90 from STH 58 to STH 82									635.0200 Sign Supports Structural Steel HS LBS	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	SPV.0165.01 Modifying Signs Type I SF		
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES								NOTES		
90-2-1	IH 90 EB	68.29	E10-61	Hospital, Exit_	144 in	54 in	HOSPITAL EXIT 69	593.6	1.2	68	54				Install sign 2325' east of existing Advance Exit Guide Sign (1000' east of STH 58) (Type A bases and supports)		
90-2-2Y	IH 90 EB	68.90		GAS-EXIT 69 [logo] [logo] [logo] [logo] HOSPITAL										24	Remove existing HOSPITAL plaque from SIS-GAS Sign		
90-2-3R	IH 90 EB	69.06		[D9-2] [TR]								1	1		Remove existing sign and post		
SEGMENT SUBTOTALS								593.6	1.2	68	54	1	1	24			
PROJECT NO: 1000-20-76						HWY: VARIOUS			COUNTY: VARIOUS – SW REGION			MISCELLANEOUS QUANTITIES			SHEET NO: 20		E

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Jefferson County IH 94 from Willow Glen Rd to Waukesha County									635.0300 Sign Supports Replacing Base Connection Bolts EACH	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH			
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION		WIDTH	HEIGHT	ORDER LINES				NOTES		
94-1-1R	IH 94 EB	278.27						Oconomowoc 4 Delafield 9 Milwaukee 36			1	Remove existing sign Existing steel supports to remain		
94-1-2	IH 94 EB	278.27	D2-3	Destination/Distance (Three)		204	84	Oconomowoc 4 Delafield 9 Milwaukee 36	1	119		Install new sign on existing steel supports (Type B bases and supports)		
SEGMENT SUBTOTALS									1	119	1			
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Crawford County STH 179 From 27 (Eastman) to 131 (Steuben) STH 179 EB mi at STH 27 is 0.00 STH 179 WB mi at STH 131 is 0.00									634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	634.0616 Posts Wood 4 x 6 - Inch 16 Foot EACH	634.0618 Posts Wood 4 x 6 - Inch 18 Foot EACH	637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH		
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES							NOTES	
179-1-1R	_179E	0.36 mi	Right	W1-4-L	Left Reverse Curve	30.00 in	30.00 in						1	1		
179-1-2R	_179E	0.36 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50							Attached to the Same Post as Sign 179-1R	
179-1-3	_179E	0.40 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in				1	6.25			New Sign and Post 200' East of Existing	
179-1-4	_179E	0.40 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50				2.25			0.40 Miles East of STH 27	
179-1-5	_179E	1.00 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in					6.25			New Sign on Existing Post	
179-1-6	_179E	1.00 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	40				2.25			New Sign on Existing Post	
179-1-7R	_179E	1.00 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in						1			
179-1-8R	_179E	1.00 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45							Attached to the Same Post as Sign 179-7R	
179-1-9	_179E	1.19 mi	Right	W1-6	Night Arrow (Single)	48.00 in	24.00 in		1			8.00			New Sign and Post	
179-1-10	_179E	2.10 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in			1		6.25			1.19 Miles East of STH 27	
179-1-11	_179E	2.10 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45				2.25			New Sign and Post 150' West of Existing	
179-1-12R	_179E	2.13 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in						1	1	550 Feet East of O'Brien Ln	
179-1-13R	_179E	2.13 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45							Attached to the Same Post as Sign 179-12R	
179-1-14R	_179E	2.55 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in						1	1		
179-1-15R	_179E	2.55 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45							Attached to the Same Post as Sign 179-14R	
179-1-16	_179E	2.58 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in				1	6.25			New Sign and Post 150' East of Existing	
179-1-17	_179E	2.58 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50				2.25			250 Feet West of Hook Hill Rd	
179-1-18	_179E	3.45 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in					6.25			New Sign on Existing Post	
179-1-19R	_179E	3.45 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in						1			
179-1-20R	_179E	3.51 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in						1	1		
179-1-21R	_179E	4.03 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in						1	1		
179-1-22R	_179E	4.03 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45							Attached to the Same Post as Sign 179-21R	
179-1-23R	_179E	4.33 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50					1		Remove Speed Plate Only	
179-1-24R	_179E	5.87 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in						1	1		
179-1-25R	_179E	5.87 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50							Attached to the Same Post as Sign 179-24R	
179-1-26R	_179E	6.37 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50					1		Remove Speed Plate Only	
179-1-27R	_179E	7.70 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in						1	1		
179-1-28R	_179E	7.70 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	35							Attached to the Same Post as Sign 179-27R	
179-1-29	_179E	7.72 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in			1		6.25			New Sign and Post 100' East of Existing	
179-1-30	_179E	7.72 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50				2.25			400 Feet East of Kickapoo Valley Rd	
179-1-31	_179W	0.71 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in					6.25			New Sign on Existing Post	
179-1-32	_179W	0.71 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50				2.25			New Sign on Existing Post	
179-1-33R	_179W	0.71 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in						1			
179-1-34R	_179W	0.71 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45							Attached to the Same Post as Sign 179-33R	
179-1-35R	_179W	1.65 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in						1	1		
179-1-36R	_179W	1.65 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50							Attached to the Same Post as Sign 179-35R	
PROJECT NO: 1000-20-76					HWY: VARIOUS			COUNTY: VARIOUS – SW REGION			MISCELLANEOUS QUANTITIES			SHEET NO: 22		E

3

Crawford County STH 179 From 27 (Eastman) to 131 (Steuben) STH 179 EB mi at STH 27 is 0.00 STH 179 WB mi at STH 131 is 0.00									634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	634.0616 Posts Wood 4 x 6 - Inch 16 Foot EACH	634.0618 Posts Wood 4 x 6 - Inch 18 Foot EACH	637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH		
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES							NOTES	
179-1-37R	_179W	2.27 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in						1	1		
179-1-38R	_179W	2.27 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50							Attached to the Same Post as Sign 179-35R	
179-1-39R	_179W	2.75 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50					1		Remove Speed Plate Only	
179-1-40R	_179W	4.14 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in						1	1		
179-1-41R	_179W	4.14 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50							Attached to the Same Post as Sign 179-40R	
179-1-42	_179W	4.58 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in					6.25			New Sign on Existing Post	
179-1-43	_179W	4.58 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50				2.25			New Sign on Existing Post	
179-1-44R	_179W	4.58 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in						1			
179-1-45R	_179W	4.58 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45							Attached to the Same Post as Sign 179-44R	
179-1-46	_179W	6.45 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in					6.25			New Sign on Existing Post	
179-1-47	_179W	6.45 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50				2.25			New Sign on Existing Post	
179-1-48R	_179W	6.45 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in						1			
179-1-49R	_179W	6.45 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45							Attached to the Same Post as Sign 179-48R	
179-1-50	_179W	6.67 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in					6.25			New Sign on Existing Post	
179-1-51	_179W	6.67 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	45				2.25			New Sign on Existing Post	
179-1-52R	_179W	6.67 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in						1			
179-1-53R	_179W	6.67 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	40							Attached to the Same Post as Sign 179-50R	
179-1-54R	_179W	6.96 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50					1		Remove Speed Plate Only	
179-1-55R	_179W	8.30 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in						1	1		
179-1-56R	_179W	8.30 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in	50							Attached to the Same Post as Sign 179-55R	
SEGMENT SUBTOTALS									1	2	2	90.75	21	11		
PROJECT NO: 1000-20-76					HWY: VARIOUS			COUNTY: VARIOUS – SW REGION			MISCELLANEOUS QUANTITIES			SHEET NO: 23		E

3

Richland County STH 193 From STH 60 to STH 80 (Muscoda) STH 193 NB mi at STH 60 is 0.00 STH 193 SB mi at STH 80 is 0.00									634.0612 Posts Wood 4 x 6 - Inch 12 Foot EACH	634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	634.0616 Posts Wood 4 x 6 - Inch 16 Foot EACH	634.0618 Posts Wood 4 x 6 - Inch 18 Foot EACH	637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH			
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES									NOTES	
193-1-1R	_193N	0.04 mi	Right	W1-2-L	Left Curve	30.00 in	30.00 in	50						1	1	Attached to the Same Post as Sign 193-1R		
193-1-2R	_193N	0.04 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in											
193-1-3	_193N	0.44 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in	35				1	6.25			New Signs and Post 75' South of Existing 750 Feet South of Town Hall Dr		
193-1-4	_193N	0.44 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in						2.25					
193-1-5R	_193N	0.45 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in	35					1	1	Attached to the Same Post as Sign 193-5R			
193-1-6R	_193N	0.45 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in											
193-1-7	_193N	0.51 mi	Left	W1-8	Chevron	18.00 in	24.00 in			1			3.00			240 Feet South of Town Hall Dr		
193-1-8	_193N	0.54 mi	Left	W1-8	Chevron	18.00 in	24.00 in						1			120 Feet South of Town Hall Dr		
193-1-9	_193N	0.56 mi	Left	W1-8	Chevron	18.00 in	24.00 in		1				3.00			At Town Hall Dr Southwest Corner		
193-1-10	_193N	0.58 mi	Left	W1-8	Chevron	18.00 in	24.00 in						1			At Town Hall Dr Northwest Corner		
193-1-11	_193N	0.61 mi	Left	W1-8	Chevron	18.00 in	24.00 in			1			3.00			120 Feet North of Town Hall Dr		
193-1-12	_193N	0.63 mi	Left	W1-8	Chevron	18.00 in	24.00 in						1			240 Feet North of Town Hall Dr		
193-1-13	_193N	0.65 mi	Left	W1-8	Chevron	18.00 in	24.00 in			1			3.00			360 Feet North of Town Hall Dr		
193-1-13	_193N	0.67 mi	Left	W1-8	Chevron	18.00 in	24.00 in						1			480 Feet North of Town Hall Dr		
193-1-13	_193N	0.69 mi	Left	W1-8	Chevron	18.00 in	24.00 in		1				3.00			600 Feet North of Town Hall Dr		
193-1-14R	_193S	0.53 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in						35					
193-1-15R	_193S	0.53 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in											
193-1-16	_193S	0.56 mi	Right	W1-4-R	Right Reverse Curve	30.00 in	30.00 in	35			1		6.25			New Signs and Post 150' South of Existing 0.29 Miles North of Town Hall Dr		
193-1-17	_193S	0.56 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in						2.25					
193-1-18	_193S	0.73 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1				3.00			600 Feet North of Town Hall Dr		
193-1-19	_193S	0.75 mi	Right	W1-8	Chevron	18.00 in	24.00 in						1			480 Feet North of Town Hall Dr		
193-1-20	_193S	0.77 mi	Right	W1-8	Chevron	18.00 in	24.00 in			1			3.00			360 Feet North of Town Hall Dr		
193-1-21	_193S	0.79 mi	Right	W1-8	Chevron	18.00 in	24.00 in						1			240 Feet North of Town Hall Dr		
193-1-23	_193S	0.81 mi	Right	W1-8	Chevron	18.00 in	24.00 in			1			3.00			120 Feet North of Town Hall Dr		
193-1-25	_193S	0.84 mi	Right	W1-8	Chevron	18.00 in	24.00 in						1			At Town Hall Dr Northwest Corner		
193-1-27	_193S	0.86 mi	Right	W1-8	Chevron	18.00 in	24.00 in		1				3.00			At Town Hall Dr Southwest Corner		
193-1-29	_193S	0.89 mi	Right	W1-8	Chevron	18.00 in	24.00 in						1			120 Feet South of Town Hall Dr		
193-1-31	_193S	0.91 mi	Right	W1-8	Chevron	18.00 in	24.00 in			1			3.00			240 Feet South of Town Hall Dr		
193-1-32R	_193S	1.17 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in						40					
193-1-33R	_193S	1.17 mi	Right	W13-1	Advisory Speed Plate (Yellow Back)	18.00 in	18.00 in											
193-1-34	_193S	1.17 mi	Right	W1-2-R	Right Curve	30.00 in	30.00 in			1			6.25			New Sign and Post at Existing Location 0.27 Miles North of STH 60		
SEGMENT SUBTOTALS									8	11	1	1	77.25	4	4			
PROJECT NO: 1000-20-76						HWY: VARIOUS			COUNTY: VARIOUS – SW REGION			MISCELLANEOUS QUANTITIES				SHEET NO: 24		E

		634.0612 Posts Wood 4 x 6 - Inch 12 Foot EACH	634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	634.0616 Posts Wood 4 x 6 - Inch 16 Foot EACH	634.0618 Posts Wood 4 x 6 - Inch 18 Foot EACH	635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	637.1230 Signs Type I Reflective F SF	637.2210 Signs Type II Reflective H SF	637.2230 Signs Type II Reflective F SF	638.2101 Moving Signs Type I EACH	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	SPV.0165.01 Modifying Signs Type I SF
SW Region Segment Summary																			
12-1	USH 12 From STH 78 to Endres Rd	0	0	0	0	0	1	0	0	70	0	0	0	0	5	0	0	8	0
12-2	USH 12 From CTH BD to Gasser Rd	0	0	0	8	3329.4	0	4.8	294	1319	0	190	0	0	4	8	13	0	0
14-1	USH 14 From Minnesota to USH 53	0	0	0	0	0	0	0	0	99	0	0	0	0	2	0	0	0	0
14-2	USH 14 From Sextonville Rd to STH 80	0	0	0	0	0	0	0	0	49.5	0	0	0	0	1	1	0	0	0
16-1	STH 16 From River Valley Rd to Waukesha County	0	0	0	0	985.8	6	1.6	98	544.5	340	0	0	0	7	0	0	2	0
23-1	STH 23 From CTH GG to CTH K (Reedsburg)	0	2	2	0	0	0	0	0	0	0	0	25	0	0	4	4	0	0
39-6	IH 39 From Cascade Mountain Rd to STH 33	0	0	0	0	2000	0	3.2	196	0	0	0	0	2	0	0	0	4	0
58-1	STH 58 From STH 33 (La Valle) to CTH G (Mauston)	23	20	1	0	0	0	0	0	0	0	0	215.25	0	0	39	29	0	0
90-1	IH 90 from Minnesota to CTH B	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0
90-2	IH 90 from STH 58 to STH 82	0	0	0	0	593.6	0	1.2	68	54	0	0	0	0	0	1	1	0	24
94-1	IH 94 from Willow Glen Rd to Waukesha County	0	0	0	0	0	1	0	0	119	0	0	0	0	0	0	0	0	0
133-1	STH 133 From Pine Grove Rd (Woodman) to USH 61 (Boscobel)	0	2	0	0	0	0	0	0	0	0	0	12.5	0	0	4	4	0	0
179-1	STH 179 From 27 (Eastman) to 131 (Steuben)	0	1	2	2	0	0	0	0	0	0	0	90.75	0	0	21	11	0	0
193-1	STH 193 From STH 60 to STH 80 (Muscoda)	8	11	1	1	0	0	0	0	0	0	0	77.25	0	0	4	4	0	0
REGION SUBTOTALS		31	36	6	11	6908.8	8	10.8	656	2255	340	190	420.75	2	20	82	66	16	24
PROJECT NO: 1000-20-76			HWY: VARIOUS			COUNTY: VARIOUS – SW REGION			MISCELLANEOUS QUANTITIES					SHEET NO:			25		E

3

Washington County IH 41 From USH 45 to STH 28									635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	635.9010.S Sign Supports Shorten Structural Steel EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	NOTES
41-1-1R	IH 41 NB	59.45						EXIT 60 145 1/2 MILE							1		Remove existing sign Existing steel supports to remain
41-1-2	IH 41 NB	59.45	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 168	30 90		EXIT 60 FD TO 145 1/2 MILE		1				22.5 105			Install new sign on existing steel supports (Type B bases and supports)
41-1-3R	IH 41 NB	59.92						EXIT 60 145 [TR]							1	2	Remove existing sign and supports
41-1-4	IH 41 NB	59.92	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 204	30 60		EXIT 60 FD TO 145 [TR]	620.6			1.2	68	22.5 85			Install new sign 10' north of existing sign 1600' north of USH 45 (Type A bases and supports)
41-1-5R	IH 41 NB	67.05						EXIT 68 K EAST-WEST 3/4 MILE							1	2	Remove existing sign and supports
41-1-6	IH 41 NB	67.05	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 144	30 90		EXIT 68 K 3/4 MILE	665.6			1.2	68	22.5 90			Install new sign 10' north of existing sign 2700' north of STH 144 (Type A bases and supports)
41-1-7R	IH 41 NB	67.82						EXIT 68 K [TR] EAST-WEST							1		Remove existing sign Existing steel supports to remain
41-1-8	IH 41 NB	67.82	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 144	30 54		EXIT 68 K [TR]			2			22.5 54			Shorten I-beams Install new sign on existing steel supports (Type B bases and supports)
41-1-9R	IH 41 NB	71.22						EXIT 72 33 W Allenton West Bend 1 MILE							1		Remove existing sign Existing steel supports to remain
41-1-10	IH 41 NB	71.22	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 192	30 162		EXIT 72 33 W Allenton West Bend 1 MILE		1				22.5 216			Install new sign on existing steel supports (Type B bases and supports)
41-1-11R	IH 41 NB	71.42						[BUS] [CAR] PARK & RIDE NEXT RIGHT							1	2	Remove existing sign and supports
41-1-12	IH 41 NB	71.42	D4-3	Park & Ride, Exit _	144	90		[BUS] [CAR] PARK & RIDE EXIT 72	665.6	1		1.2	68	90			Install new sign 10' north of existing sign 3.1 miles north of CTH K (Type A bases and supports)
41-1-13R	IH 41 NB	71.71						Horicon Beaver Dam NEXT RIGHT							1	2	Remove existing sign and steel supports Existing bases to remain
41-1-14	IH 41 NB	71.71	E3-1	Supplemental Guide Sign	156	84		Horicon Beaver Dam EXIT 72	530.6					91			Install new sign and supports on existing bases (Type A bases and supports)
41-1-15R	IH 41 NB	72.11						EXIT 72 33 W Allenton [TR] West Bend							1		Remove existing sign Existing steel supports to remain
41-1-16	IH 41 NB	72.11	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 228	30 132		EXIT 72 33 W Allenton [TR] West Bend		1				22.5 209			Install new sign on existing steel supports (Type B bases and supports)
41-1-17R	IH 41 NB	74.82						EXIT 76 D EAST-WEST 1 MILE							1		Remove existing sign Existing steel supports to remain
41-1-18	IH 41 NB	74.82	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 144	30 90		EXIT 76 D 1 MILE			2			22.5 90			Shorten existing I-beams Install new sign on existing supports (Type B bases and supports)
41-1-19R	IH 41 NB	75.82						EXIT 76 D [TR] EAST-WEST							1		Remove existing sign Existing steel supports to remain
41-1-20	IH 41 NB	75.82	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 144	30 54		EXIT 76 D [TR]			2			22.5 54			Shorten existin I-beams Install new sign on existing supports (Type B bases and supports)
41-1-21R	IH 41 NB	79.98						EXIT 81 28 Mayville Kewaskum 1 MILE							1		Remove existing sign Existing steel supports to remain
41-1-22	IH 41 NB	79.98	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	96 192	30 162		EXIT 81 28 Mayville Kewaskum 1 MILE		1				20 216			Install new sign on existing steel supports (Type B bases and supports)

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Washington County IH 41 From USH 45 to STH 28								635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	635.9010.S Sign Supports Shorten Structural Steel EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	NOTES	
41-1-23R	IH 41 NB	80.74					Theresa NEXT RIGHT							1		Remove existing sign Existing steel supports to remain	
41-1-24	IH 41 NB	80.74	E3-1	Supplemental Guide Sign	120	60	Theresa EXIT 81		1				50			Install new sign on existing steel supports (Type A bases and supports)	
41-1-25R	IH 41 NB	80.90					EXIT 81 28 Mayville [TR] Kewaskum							1		Remove existing sign Existing steel supports to remain	
41-1-26	IH 41 NB	80.90	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	96 228	30 132	EXIT 81 28 Mayville [TR] Kewaskum		1				20 209			Install new sign on existing steel supports (Type B bases and supports)	
41-1-27R	IH 41 SB	77.6					EXIT 76 D EAST-WEST 1 MILE							1		Remove existing sign Existing steel supports to remain	
41-1-28	IH 41 SB	77.6	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 144	30 90	EXIT 76 D 1 MILE			2			22.5 90			Shorten existin I-beams Install new sign on existing supports (Type B bases and supports)	
41-1-29R	IH 41 SB	76.65					EXIT 76 D [TR] EAST-WEST							1	2	Remove existing sign and supports	
41-1-30	IH 41 SB	76.65	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 144	30 54	EXIT 76 D [TR]	593.6			1.2	68	22.5 54			Install new sign 10' south of existing sign 4.7 miles south of STH 28 (Type A bases and supports)	
41-1-31R	IH 41 SB	73.38					EXIT 72 33 W Allenton West Bend 3/4 MILE							1		Remove existing sign Existing steel supports to remain	
41-1-32	IH 41 SB	73.38	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 192	30 162	EXIT 72 33 W Allenton West Bend 3/4 MILE		1				22.5 216			Install new sign on existing steel supports (Type B bases and supports)	
41-1-33R	IH 41 SB	72.92					[BUS] [CAR] PARK & RIDE NEXT RIGHT							1		Remove existing sign Existing steel supports to remain	
41-1-34	IH 41 SB	72.92	D4-3	Park & Ride, Exit _	144	90	[BUS] [CAR] PARK & RIDE EXIT 72		1				90			Install new sign on existing steel supports (Type A bases and supports)	
41-1-35R	IH 41 SB	72.8					EXIT 72 33 W Allenton [TR] West Bend							1		Remove existing sign Existing steel supports to remain	
41-1-36	IH 41 SB	72.8	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 228	30 132	EXIT 72 33 W Allenton [TR] West Bend		1				22.5 209			Install new sign on existing steel supports (Type B bases and supports)	
41-1-37R	IH 41 SB	69.72					EXIT 68 K EAST-WEST 1 MILE							1		Remove existing sign Existing steel supports to remain	
41-1-38	IH 41 SB	69.72	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 144	30 90	EXIT 68 K 1 MILE			2			22.5 90			Shorten existin I-beams Install new sign on existing supports (Type B bases and supports)	
41-1-39R	IH 41 SB	68.71					EXIT 68 K [TR] EAST-WEST							1		Remove existing sign Existing steel supports to remain	
41-1-40	IH 41 SB	68.71	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 144	30 54	EXIT 68 K [TR]			2			22.5 54			Shorten existin I-beams Install new sign on existing supports (Type B bases and supports)	
41-1-41R	IH 41 SB	61.53					EXIT 60 145 1 MILE							1		Remove existing sign Existing steel supports to remain	
41-1-42	IH 41 SB	61.53	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 168	30 90	EXIT 60 FD TO 145 1 MILE		1				22.5 105			Install new sign on existing steel supports (Type A bases and supports)	
41-1-43R	IH 41 SB	60.60					EXIT 60 145 [TR]							1	2	Remove existing sign and supports Existing steel supports to remain	
41-1-44	IH 41 SB	60.60	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 204	30 60	EXIT 60 FD TO 145 [TR]	620.6			1.2	68	22.5 85			Install new sign 10' south of existing sign 3.7 miles south of STH 60 (Type A bases and supports)	
REGION SUBTOTALS								3076.00	11	12	6.00	340.00	2952.00	22	12		
PROJECT NO: 1000-20-76						HWY: VARIOUS			COUNTY: VARIOUS – SE REGION				MISCELLANEOUS QUANTITIES			SHEET NO: 27	E

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Brown and Kewaunee Counties STH 57 from CTH A/T to CTH X									635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	NOTES
57-1-1R	STH 57 NB	CTH P Interchange					P DK Dykesville EXIT 1 1/2 MILES							1				Remove existing sign Existing steel supports to remain
57-1-2	STH 57 NB	CTH P Interchange	E1-51-A	Advance Exit Guide Sign	192	120	P DK Dykesville EXIT 1 1/2 MILES		1				160					Install new sign on existing steel supports (Type A bases and supports)
57-1-3	STH 57 NB	CTH P Interchange	D4-4-R	Park & Ride Next Right with car symbol	144	84	[car] Park & Ride NEXT RIGHT	665.6		1.2	68	84						Install sign 800' south of new sign 57-1-5 (1 mile north of Gravel Pit Rd) (Type A bases and supports)
57-1-4R	STH 57 NB	CTH P Interchange					P DK Dykesville [TR]							1			2	Remove existing sign and supports
57-1-5	STH 57 NB	CTH P Interchange	E4-1-A	Exit Direction Sign with Arrow	228	90	P DK Dykesville [TR]	1001.8		1.6	98	142.5						Install sign 350' north of existing sign (1.16 miles north of Gravel Pit Rd) (Type A bases and supports)
57-1-6R	STH 57 NB	CTH P Interchange					Brussels 11 Sturgeon Bay 25								1	2		Remove existing sign and supports
57-1-7	STH 57 NB	CTH P Interchange	D2-1	Destination/Distance (One)	228	36	Sturgeon Bay 23	576.6		1.2	68	57						Install sign 2480' north of existing sign (4645' north of CTH P) (Type A bases and supports)
57-1-8R	STH 57 SB	CTH P Interchange					P DK Dykesville EXIT 1 MILE							1				Remove existing sign Existing steel supports to remain
57-1-9	STH 57 SB	CTH P Interchange	E1-51-A	Advance Exit Guide Sign	192	120	P DK Dykesville EXIT 1 MILE		1				160					Install new sign on existing steel supports (Type A bases and supports)
57-1-10	STH 57 SB	CTH P Interchange	D4-4-R	Park & Ride Next Right with car symbol	144	84	[CAR] Park & Ride NEXT RIGHT	665.6		1.2	68	84						Install sign 1795' south of existing Advance Exit Guide Sign 1110' south of CTH S
57-1-11R	STH 57 SB	CTH P Interchange					P DK Dykesville [TR]							1				Remove existing sign Existing steel supports to remain
57-1-12	STH 57 SB	CTH P Interchange	E4-1-A	Exit Direction Sign with Arrow	228	90	P DK Dykesville [TR]		1				142.5					Install new sign on existing steel supports (Type A bases and supports)
57-1-13R	STH 57 SB	CTH P Interchange					Green Bay 15								1	2		Remove existing sign and supports
57-1-14	STH 57 SB	CTH P Interchange	D2-1	Destination/Distance (One)	180	36	Green Bay 11	566.6		1.2	68	45						Install sign 2375' south of existing sign 57-1-13R (4225' south of CTH P) (Type A bases and supports)
SEGMENT SUBTOTALS									3476.2	3	6.4	370	875	4	2	4	2	
PROJECT NO: 1000-20-76									HWY: VARIOUS			COUNTY: VARIOUS – NE REGION			MISCELLANEOUS QUANTITIES			SHEET NO: 28

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Oconto and Marinette Counties USH 141 from CTH A to STH 64									635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	NOTES
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER	LINES									
141-1-1R	USH 141 NB	CTH A Interchange						A Lena EXIT 1 MILE						1			Remove existing sign Existing steel supports to remain
141-1-2	USH 141 NB	CTH A Interchange	E1-51-A	Advance Exit Guide Sign	156	120		A Lena EXIT 1 MILE		1			130				Install new sign on existing steel supports (Type A beams and bases)
141-1-3	USH 141 NB	CTH A Interchange	D4-4	Park & Ride Next Right with car symbol	144	90		[car] Park & Ride NEXT RIGHT	665.6		1.2	68	90				Install sign 2955' north of existing Advance Exit Guide Sign (2.23 miles north of LaMere Rd) (Type A beams and bases)
141-1-4R	USH 141 NB	CTH A Interchange						A Lena [TR]						1			Remove existing sign Existing steel supports to remain
141-1-5	USH 141 NB	CTH A Interchange	E4-1-A	Exit Direction Sign with Arrow	144	90		A Lena [TR]		1			90				Install new sign on existing steel supports (Type A beams and bases)
141-1-6R	USH 141 NB	CTH A Interchange						Coleman 7 Crivitz 20 Iron Mt 67							1	2	Remove existing sign and posts
141-1-7	USH 141 NB	CTH A Interchange	D2-3	Destination/Distance (Three)	156	84		Coleman 7 Crivitz 19 Iron Mt 64	656.6		1.2	68	91				Install sign 1475' north of existing sign (5016' north of CTH A) (Type B beams and bases)
141-1-8R	USH 141 NB	CTH B Interchange						BUS [blank] TO 141 B CP Coleman Pound EXIT 1 MILE						1			Remove existing sign Existing steel supports to remain
141-1-9	USH 141 NB	CTH B Interchange	E1-51-A	Advance Exit Guide Sign	192	180		[blank] TO BUS B CP 141 Coleman Pound EXIT 1 MILE		1			240				Install new sign on existing steel supports (Type A beams and bases)
141-1-10	USH 141 NB	CTH B Interchange	D4-4	Park & Ride Next Right with car symbol	144	90		[car] Park & Ride NEXT RIGHT	665.6		1.2	68	90				Install sign 2325' north of existing Advance Exit Guide Sign (1265' north of 8th Rd) (Type A beams and bases)
141-1-11R	USH 141 NB	CTH B Interchange						BUS [blank] TO 141 B CP Coleman [TR] Pound						1			Remove existing sign Existing steel supports to remain
141-1-12	USH 141 NB	CTH B Interchange	E4-1-A	Exit Direction Sign with Arrow	228	150		[blank] TO BUS B CP 141 Coleman [TR] Pound		1			237.5				Install new sign on existing steel supports (Type A beams and bases)
141-1-13	USH 141 NB	STH 64 Interchange	D4-4	Park & Ride Next Right with car symbol	144	90		[car] Park & Ride NEXT RIGHT	665.6		1.2	68	90				Install sign 800' north of existing Advance Exit Guide Sign (4224' north of CTH Q) (Type A beams and bases)
141-1-14	USH 141 SB	STH 64 Interchange	D4-4	Park & Ride Next Right with car symbol	144	90		[car] Park & Ride NEXT RIGHT	665.6		1.2	68	90				Install sign 800' south of existing Advance Exit Guide Sign (1.15 miles south of CTH P) (Type A beams and bases)
141-1-15R	USH 141 SB	CTH B Interchange						B TO CP Coleman Pound EXIT 1 MILE						1			Remove existing sign Existing steel supports to remain
141-1-16	USH 141 SB	CTH B Interchange	E1-51-A	Advance Exit Guide Sign	180	156		B TO CP Coleman Pound EXIT 1 MILE		1			195				Install new sign on existing steel supports (Type A beams and bases)
141-1-17	USH 141 SB	CTH B Interchange	D4-4	Park & Ride Next Right with car symbol	144	90		[car] Park & Ride NEXT RIGHT	617.6		1.2	68	90				Install sign 1600' south of existing Advance Exit Guide Sign (1.35 miles south of CTH Q) (Type A beams and bases)
141-1-18R	USH 141 SB	CTH B Interchange						B TO CP Coleman [TR] Pound						1			Remove existing sign Existing steel supports to remain
141-1-19	USH 141 SB	CTH B Interchange	E4-1-A	Exit Direction Sign with Arrow	204	120		B TO CP Coleman [TR] Pound		1			170				Install new sign on existing steel supports (Type A beams and bases)
141-1-20R	USH 141 SB	CTH B Interchange						Lena 8 Green Bay 37							1	2	Remove existing sign and posts
PROJECT NO: 1000-20-76				HWY: VARIOUS				COUNTY: VARIOUS – NE REGION				MISCELLANEOUS QUANTITIES			SHEET NO: 29		E

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Oconto and Marinette Counties USH 141 from CTH A to STH 64									635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	NOTES
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES										
141-1-21	USH 141 SB	CTH B Interchange	D2-2	Destination/Distance (Two)	192	60	Lena 7 Green Bay 36	617.6			1.2	68	80				
141-1-22R	USH 141 SB	CTH A Interchange					A Lena EXIT 1 MILE							1			
141-1-23	USH 141 SB	CTH A Interchange	E1-51-A	Advance Exit Guide Sign	156	120	A Lena EXIT 1 MILE		1				130				
141-1-24	USH 141 SB	CTH A Interchange	D4-4	Park & Ride Next Right with car symbol	144	90	[car] Park & Ride NEXT RIGHT	665.6			1.2	68	90				
141-1-25R	USH 141 SB	CTH A Interchange					A Lena [TR]							1			
141-1-26	USH 141 SB	CTH A Interchange	E4-1-A	Exit Direction Sign with Arrow	144	90	A Lena [TR]		1				90				
141-1-27R	USH 141 SB	CTH A Interchange					Green Bay 32								1	2	
141-1-28	USH 141 SB	CTH A Interchange	D2-2		192	60	Suamico 18 Green Bay 28	617.6			1.2	68	80				
SEGMENT SUBTOTALS									5837.4	8	10.8	612	2073.5	8	3	6	

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Fond du Lac County USH 151 from CTH D to STH 23								635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	637.1230 Signs Type I Reflective F SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	638.3210 Revising Signs Type I Demountable EACH	NOTES
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES												
151-1-1R	USH 151 NB	CTH D Interchange					Fond du Lac NEXT 6 EXITS							1					
151-1-2	USH 151 NB	CTH D Interchange	E9-1	(area) Next _ Exits	156	54	Fond du Lac NEXT 6 EXITS		1			58.5							
151-1-3R	USH 151 NB	CTH D Interchange					D TO Military Rd EXIT 1 MILE							1					
151-1-4	USH 151 NB	CTH D Interchange	E1-51-A	Advance Exit Guide Sign	252	120	D TO Military Rd EXIT 1 MILE		1			210							
151-1-5R	USH 151 NB	CTH D Interchange					D TO Military Rd [TR]							1					
151-1-6	USH 151 NB	CTH D Interchange	E4-1-A	Exit Direction Sign with Arrow	288	90	D TO Military Rd [TR]		1			180							
151-1-7R	USH 151 NB	Hickory St Interchange					Hickory St EXIT 1 MILE							1					
151-1-8	USH 151 NB	Hickory St Interchange	E1-51-A	Advance Exit Guide Sign	204	78	Hickory St EXIT 1 MILE		1			110.5							
151-1-9R	USH 151 NB	Hickory St Interchange					Hickory St [TR]							1					
151-1-10	USH 151 NB	Hickory St Interchange	E4-1-A	Exit Direction Sign with Arrow	240	48	Hickory St [TR]		1			80							
151-1-11V	USH 151 NB	STH 175 Interchange					175 Main St [TR] EXIT 15 MPH		1									1	
151-1-12R	USH 151 NB	IH 41 Interchange					Chilton 28 Manitowoc 53							1			2		
151-1-13	USH 151 NB	STH 23 Interchange	E1-51-A	Advance Exit Guide Sign	216	126	23 Johnson St EXIT 1 MILE	1097.8		1.6	98	189							
151-1-14R	USH 151 NB	STH 23 Interchange					23 Johnson St EXIT 1/2 MILE							1					
151-1-15	USH 151 NB	STH 23 Interchange	E3-1	Supplemental Guide Sign	144	84	HOSPITAL Sheboygan NEXT RIGHT		1			84							
151-1-16R	USH 151 NB	STH 23 Interchange					Hospital NEXT RIGHT								1	2			

PROJECT NO: 1000-20-76				HWY: VARIOUS			COUNTY: VARIOUS – NE REGION					MISCELLANEOUS QUANTITIES					SHEET NO: 30		E
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Fond du Lac County USH 151 from CTH D to STH 23									635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	637.1230 Signs Type I Reflective F SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	638.3210 Revising Signs Type I Demountable EACH	NOTES
151-1-17R	USH 151 NB	STH 23 Interchange					EXPRESSWAY ENDS 1/2 MILE								1					Remove existing sign Existing steel supports to remain
151-1-18	USH 151 NB	STH 23 Interchange	W19-2	Expressway Ends _ Mile	240	102	EXPRESSWAY ENDS 1/2 MILE		1					170						Install new sign on existing beams from sign 151-1-14R (Type B beams and bases)
151-1-19R	USH 151 NB	STH 23 Interchange					EXPRESSWAY ENDS 1/2 MILE								1					Remove existing sign Existing steel supports to remain
151-1-20	USH 151 NB	STH 23 Interchange	W19-2	Expressway Ends _ Mile	240	102	EXPRESSWAY ENDS 1/2 MILE		1					170						Install new sign on existing beams from sign 151-1-14R (Type B beams and bases)
151-1-21V	USH 151 SB	STH 175 Interchange					175 Main St [TR] EXIT 15 MPH												1	Replace existing Right Turn Arrow with Tilt Right arrow
151-1-22R	USH 151 SB	Hickory St Interchange					Hickory St EXIT 1/2 MILE								1					Remove existing sign Existing steel supports to remain
151-1-23	USH 151 SB	Hickory St Interchange	E1-51-A	Advance Exit Guide Sign	204	78	Hickory St EXIT 1/2 MILE		1				110.5							Install new sign on existing steel supports (Type A beams and bases)
151-1-24R	USH 151 SB	Hickory St Interchange					Hickory St [TR]								1					Remove existing sign Existing steel supports to remain
151-1-25	USH 151 SB	Hickory St Interchange	E4-1-A	Exit Direction Sign with Arrow	240	48	Hickory St [TR]		1				80							Install new sign on existing steel supports (Type A beams and bases)
151-1-26R	USH 151 SB	Hickory St Interchange					Waupun 16 Madison 65								1			2		Remove existing sign and supports
151-1-27R	USH 151 SB	CTH D Interchange					D TO Military Rd EXIT 1 MILE								1					Remove existing sign Existing steel supports to remain
151-1-28	USH 151 SB	CTH D Interchange	E1-51-A	Advance Exit Guide Sign	252	120	D TO Military Rd EXIT 1 MILE		1				210							Install new sign on existing beams from sign 151-1-14R (Type B beams and bases)
151-1-29R	USH 151 SB	CTH D Interchange					D TO Military Rd [TR]								1					Remove existing sign Existing steel supports to remain
151-1-30	USH 151 SB	CTH D Interchange	E4-1-A	Exit Direction Sign with Arrow	288	90	D TO Military Rd [TR]		1				180							Install new sign on existing steel supports (Type A beams and bases)
151-1-31R	USH 151 SB	CTH D Interchange					Waupun 13 Madison 61								1					Remove existing sign Existing steel supports to remain
151-1-32	USH 151 SB	CTH D Interchange	D2-2	Destination/Distance (Two)	156	60	Waupun 13 Madison 61		1				65							Install new sign on existing steel supports (Type A beams and bases)
SEGMENT SUBTOTALS									1097.8	14	1.6	98	1557.5	340	15	1	2	4	2	

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PROJECT NO: 1000-20-76

HWY: VARIOUS

COUNTY: VARIOUS – NE REGION

MISCELLANEOUS QUANTITIES

SHEET NO: 31

E

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Outagamie County STH 441 from USH 10 to IH 41								634.0618 Posts Wood 4 x 6 - Inch 18 Foot EACH	635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	637.2210 Signs Type II Reflective H SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3210 Revising Signs Type I Demountable EACH	
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES												NOTES
441-1-1R	STH 441 NB	5.50					KK Calumet St EXIT 1 1/4 MILE								1				Remove existing sign Existing steel supports to remain
441-1-2	STH 441 NB	5.50	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	84 216	30 120	EXIT 7 KK Calumet St 1 1/4 MILE			1			17.5 180						Install new sign on existing steel supports (Type B beams and bases)
441-1-3R	STH 441 NB	6.05					Hwy KK 3/4 Hwy CE 2 Hwy OO 3 3/4								1				S-8-2 Remove existing sign and I beams
441-1-4	STH 441 NB	6.05	E8-1	Interchange Sequence Sign	276	96	KK Calumet St 3/4 CE College Ave 2 OO Northland Ave 3 3/4						184						S-8-2 I beams incidental
441-1-4a	STH 441 NB	6.20	E3-1	Supplemental Guide Sign	120	60	Harrison EXIT 7		600		1.2	68	50						Install new sign on right 800' north of sign 441-1-4 1.75 miles north of Oneida St (Type A beams and bases)
441-1-5	STH 441 NB	6.71	E1-5-P	Exit Number Panel	84	30	EXIT 7 KK Calumet St EXIT [TR] ONLY						17.5						S-8-7 Install Exit Number Panel on existing sign
441-1-6V	STH 441 NB	6.71					441 NORTH [TL] [TL]											1	S-8-7 Replace existing curve arrows with tilt left arrows
441-1-6a	STH 441 NB	Off-ramp to CTH KK	D1-1	Destination/Direction (One)	66	15	Harrison [RA]	2						6.88					Install new sign 200' south of existing D1-60 sign 410' south of CTH KK
441-1-7R	STH 441 NB	6.94					EXIT [TR]									1	2		Remove existing sign and posts
441-1-8	STH 441 NB	6.94	E5-1-A	Exit Number (arrow)	72	60	EXIT 7 [TR]	2						30					Install new sign in gore 1955' north of Lake Park Rd
441-1-9	STH 441 NB	7.03	E1-5-P	Exit Number Panel	84	30	EXIT 8 CE College Ave 3/4 MILE			1			17.5						Install Exit Number Panel on existing sign (Type B beams and bases)
441-1-10V	STH 441 NB	7.13					Lawrence University Fox Cities Performing Arts Center EXIT 8			1								1	Replace existing "NEXT RIGHT" with "EXIT 8"
441-1-11R	STH 441 NB	7.55					Kimberly NEXT RIGHT								1				Remove existing sign Existing steel supports to remain
441-1-12	STH 441 NB	7.55	E3-1	Supplemental Guide Sign	120	60	Kimberly EXIT 8			1			50						Install new sign on exsiting steel supports (Type A beams and bases)
441-1-13R	STH 441 NB	7.70					Hwy CE 1/4 Hwy OO 2 1/4 Hwy 41 3								1				S-44-6 Remove existing sign and I beams
441-1-14	STH 441 NB	7.70	E8-1	Interchange Sequence Sign	276	96	CE College Ave 1/4 OO Northland Ave 2 1/4 41 3						184						S-44-6 I beams incidental
441-1-15R	STH 441 NB	7.88					CE College Ave [TR]								1				Remove existing sign Existing steel supports to remain
441-1-16	STH 441 NB	7.88	E1-5-P E4-1-A	Exit Number Panel Exit Direction Sign with Arrow	84 264	30 90	EXIT 8 CE College Ave [TR]			1			17.5 165						Install new sign on existing steel supports (Type B beams and bases)
441-1-17R	STH 441 NB	7.99					EXIT [TR]									1	2		Remove existing sign and posts
441-1-18	STH 441 NB	7.99	E5-1-A	Exit Number (arrow)	72	60	EXIT 8 [TR]	2						30					Install new sign in gore 4225' north of CTH KK
441-1-19R	STH 441 NB	8.77					OO Northland Ave EXIT 1 MILE									1			Remove existing sign Existing steel supports to remain
441-1-20	STH 441 NB	8.77	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	96 264	30 120	EXIT 10 OO Northland Ave 1 MILE			1			20 220						Install new sign on existing steel supports (Type B beams and bases)
441-1-21R	STH 441 NB	9.12					Hwy OO 3/4 Hwy 41 1 1/2								1				S-44-5 Remove existing sign and I beams
441-1-22	STH 441 NB	9.12	E8-1	Interchange Sequence Sign	264	66	OO Northland Ave 3/4 41 1 1/2						121						S-44-5 I beams incidental
441-1-23R	STH 441 NB	9.84					OO Northland Ave [TR]								1				Remove existing sign Existing steel supports to remain
441-1-24	STH 441 NB	9.84	E1-5-P E4-1-A	Exit Number Panel Exit Direction Sign with Arrow	96 300	30 90	EXIT 10 OO Northland Ave [TR]			1			20 187.5						Install new sign on existing steel supports (Type B beams and bases)

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PROJECT NO: 1000-20-76

HWY: VARIOUS

COUNTY: VARIOUS – NE REGION

MISCELLANEOUS QUANTITIES

SHEET NO: 32

E

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Outagamie County STH 441 from USH 10 to IH 41								634.0618 Posts Wood 4 x 6 - Inch 18 Foot EACH	635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	637.2210 Signs Type II Reflective H SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3210 Revising Signs Type I Demountable EACH	NOTES
441-1-25R	STH 441 NB	9.96					EXIT [TR]									1	2		Remove existing sign and posts
441-1-26	STH 441 NB	9.96	E5-1-A	Exit Number (arrow)	72	60	EXIT 10[TR]	2						30					Install new sign in gore 1900' north of STH 96
441-1-27R	STH 441 NB	10.12					41 Green Bay Milwaukee EXIT 1/2 MILE								1				Remove existing sign Exsiting steel supports to remain
441-1-28	STH 441 NB	10.12	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	144 192	30 162	EXITS 11A-B 41 Green Bay Milwaukee 1/2 MILE			1			30 216						Install new sign on existing steel supports (Type B beams and bases)
441-1-29R	STH 441 NB	10.45					41 SOUTH Milwaukee [DA] [DA]								1				S-44-2 Remove existing sign Existing I beams to remain
441-1-30	STH 441 NB	10.45	E1-5-P E6-51	Exit Number Panel Advance Exit Guide Sign (Overhead)	108 204	30 126	EXIT 11 A 41 SOUTH Milwaukee [DA] [DA]						22.5 178.5						S-44-2 Install new sign on existing I beams
441-1-31R	STH 441 NB	10.45					41 NORTH Green Bay EXIT [DA] ONLY								1				S-44-2 Remove existing sign Existing I beams to remain
441-1-32	STH 441 NB	10.45	E1-5-P E6-51	Exit Number Panel Advance Exit Guide Sign (Overhead)	108 168	30 120	EXIT 11 B 41 NORTH Green Bay EXIT [DA] ONLY						22.5 140						S-44-2 Install new sign on existing I beams
441-1-33R	STH 441 NB	10.62					41 SOUTH Milwaukee [LL] [LL] 30 MPH								1				S-44-28 Remove existing sign and I beams
441-1-34	STH 441 NB	10.62	E1-5-P E6-51	Exit Number Panel Advance Exit Guide Sign (Overhead)	108 204	30 126	EXIT 11 A 41 SOUTH Milwaukee [DA] 30 MPH [DA]			1			22.5 178.5						S-44-28 I beams incidental
441-1-35R	STH 441 NB	10.62					41 NORTH Green Bay EXIT [TR] ONLY								1				S-44-28 Remove existing sign Existing I beams to remain
441-1-36	STH 441 NB	10.62	E1-5-P E6-1	Exit Number Panel Exit Direction Sign (Overhead)	108 168	30 126	EXIT 11 B 41 NORTH Green Bay EXIT [TR] ONLY						22.5 147						S-44-28 Install new sign on existing I beams
441-1-37R	STH 441 NB	10.74					EXIT [TR]									1	2		Remove existing sign and posts
441-1-38	STH 441 NB	10.74	E5-1B	Exit Number and Letter (Arrow)	96	60	EXIT 11B [TR]	2						40					Install new sign in gore 2905' north of CTH OO
441-1-39R	STH 441 SB	IH 41 NB Off Ramp					OO Northland Ave EXIT 1/2 MILE								1				Remove existing sign Exsiting steel supports to remain
441-1-40	STH 441 SB	IH 41 NB Off Ramp	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	96 264	30 120	EXIT 10 OO Northland Ave 1/2 MILE			1			20 220						Install new sign on existing steel supports (Type B beams and bases)
441-1-41R	STH 441 SB	10.88					OO Northland Ave EXIT 1/2 MILE								1				Remove existing sign Exsiting steel supports to remain
441-1-42	STH 441 SB	10.88	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	96 264	30 120	EXIT 10 OO Northland Ave 1/2 MILE			1			20 220						Install new sign on existing steel supports (Type B beams and bases)
441-1-43R	STH 441 SB	10.64					Hwy OO 1/4 Hwy CE 2 1/4 Hwy KK 3 1/4								1				S-44-28 Remove existing sign and I beams
441-1-44	STH 441 SB	10.64	E8-1	Interchange Sequence Sign	264	96	OO Northland Ave 1/4 CE College Ave 2 1/4 KK Calumet St 3 1/4						176						S-44-28 I beams incidental
441-1-45R	STH 441 SB	10.41					OO Northland Ave [TR]								1				Remove existing sign Existing steel supports to remain
441-1-46	STH 441 SB	10.41	E1-5-P E4-1-A	Exit Number Panel Exit Direction Sign with Arrow	96 300	30 90	EXIT 10 OO Northland Ave [TR]			1			20 187.5						Install new sign on existing steel supports (Type B beams and bases)

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Outagamie County STH 441 from USH 10 to IH 41									634.0618 Posts Wood 4 x 6 - Inch 18 Foot EACH	635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	637.2210 Signs Type II Reflective H SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3210 Revising Signs Type I Demountable EACH		
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES													NOTES	
441-1-47R	STH 441 SB	10.31					EXIT [TR]													Remove existing sign and posts	
441-1-48	STH 441 SB	10.31	E5-1-A	Exit Number (arrow)	72	60	EXIT 10 [TR]							30						Install new sign in gore 3010' south of IH 41	
441-1-49V	STH 441 SB	10.15					Lawrence University Fox Cities Performing Arts Center EXIT 8			1									1	Replace existing "NEXT RIGHT" with "EXIT 8"	
441-1-50R	STH 441 SB	9.66					CE College Ave EXIT 1 1/4 MILE									1				Remove existing sign Exsiting steel supports to remain	
441-1-51	STH 441 SB	9.66	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	84 216	30 120	EXIT 8 CE College Ave 1 1/4 MILE			1				17.5 180						Install new sign on existing steel supports (Type B beams and bases)	
441-1-52R	STH 441 SB	9.19					Kimberly NEXT RIGHT									1				Remove existing sign Existing steel supports to remain	
441-1-53	STH 441 SB	9.19	E3-1	Supplemental Guide Sign	120	60	Kimberly EXIT 8			1				50						Install new sign on exsiting steel supports (Type A beams and bases)	
441-1-54R	STH 441 SB	9.14					Hwy CE 3/4 Hwy KK 1 3/4 Hwy 10 4 1/4									1				S-44-5 Remove existing sign and I beams	
441-1-55	STH 441 SB	9.14	E8-1	Interchange Sequence Sign	240	96	CE College Ave 3/4 KK Calumet St 1 3/4 10 Oneida St 4 1/2							160						S-44-5 I beams incidental	
441-1-56R	STH 441 SB	8.78					Downtown Appleton NEXT RIGHT									1				Remove existing sign Exsiting steel supports to remain	
441-1-57	STH 441 SB	8.78	E3-1	Supplemental Guide Sign	132	84	Downtown Appleton EXIT 8			1				77						Install new sign on existing steel supports (Type B beams and bases)	
441-1-58R	STH 441 SB	8.44					CE College Ave [TR]									1				Remove existing sign Existing steel supports to remain	
441-1-59	STH 441 SB	8.44	E1-5-P E4-1-A	Exit Number Panel Exit Direction Sign with Arrow	84 264	30 90	EXIT 8 CE College Ave [TR]			1				17.5 165						Install new sign on existing steel supports (Type B beams and bases)	
441-1-60R	STH 441 SB	8.33					EXIT [TR]										1	2		Remove existing sign and posts	
441-1-61	STH 441 SB	8.33	E5-1-A	Exit Number (arrow)	72	60	EXIT 8 [TR]	2							30					Install new sign in gore 2535' south of Newberry St	
441-1-62R	STH 441 SB	8.25					KK Calumet St EXIT 3/4 MILE									1				Remove existing sign Exsiting steel supports to remain	
441-1-63	STH 441 SB	8.25	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	84 216	30 120	EXIT 7 KK Calumet St 3/4 MILE			1				17.5 180						Install new sign on existing steel supports (Type B beams and bases)	
441-1-63a	STH 441 SB	8.40	E3-1	Supplemental Guide Sign	120	60	Harrison EXIT 7		600			1.2	68	50						Install new sign 815' south of sign 441-1-63 400' south of CTH CE (Type A beams and bases)	
441-1-64R	STH 441 SB	7.72					Hwy KK 1/4 Hwy 10 3 Hwy 47 4									1				S-44-6 Remove existing sign and I beams	
441-1-65	STH 441 SB	7.72	E8-1	Interchange Sequence Sign	228	96	KK Calumet St 1/4 10 Oneida St 3 47 Appleton Rd 4							152						S-44-6 I beams incidental	
441-1-66	STH 441 SB	7.50	E1-5-P	Exit Number Panel	84	30	EXIT 7 KK Calumet St EXIT [TR] ONLY							17.5						S44-64 Install Exit Number Panel on existing sign	
441-1-67R	STH 441 SB	7.34					EXIT [TR]										1	2		Remove existing sign and posts	
441-1-68	STH 441 SB	7.34	E5-1-A	Exit Number (arrow)	72	60	EXIT 7 [TR]	2							30					Install new sign in gore 4275' south of CTH CE	
441-1-69	STH 441 SB	Off ramp to CTH KK	D1-1	Destination/Direction (one)	66	15	[LA] Harrison	2							6.88					Install new sign 150' north of existing D1-60 sign 510' north of CTH KK	
SEGMENT SUBTOTALS									16	1200	18	2.4	136	4379	233.76	23	7	12	3		
PROJECT NO: 1000-20-76						HWY: VARIOUS				COUNTY: VARIOUS – NE REGION				MISCELLANEOUS QUANTITIES				SHEET NO: 34			E

NE Region Segment Summary		634.0618 Posts Wood 4 x 6 - Inch 18 Foot EACH	635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	637.1230 Signs Type I Reflective F SF	637.2210 Signs Type II Reflective H SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	638.3210 Revising Signs Type I Demountable EACH
57-1	STH 57 from CTH A/T to CTH X	0	3476.2	3	6.4	370	875	0	0	4	2	4	2	0
141-1	USH 141 from CTH A to STH 64	0	5837.4	8	10.8	612	2073.5	0	0	8	3	6	0	0
151-1	USH 151 from CTH D to STH 23	0	1097.8	14	1.6	98	1557.5	340	0	15	1	2	4	2
441-1	STH 441 from USH 10 to IH 41	16	1200	18	2.4	136	4379	0	233.76	23	7	12	0	3
REGION SUBTOTALS		16	11611.4	43	21.2	1216	8885	340	233.76	50	13	24	6	5
PROJECT NO: 1000-20-76		HWY: VARIOUS		COUNTY: VARIOUS – NE REGION			MISCELLANEOUS QUANTITIES			SHEET NO:		35		E

Portage County USH 10 Exit 230 Ramps USH 10 WB at County K is 39.47									634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES				NOTES
10-1-1R	_010 W	40.45	Right	W13-2	Advisory Exit Speed Plate (Yellow Black)						1	
10-1-2	_010 W	40.45	Right	W13-2	Advisory Exit Speed Plate (Yellow Black)	36.00	48.00	35		12.00		Attach to existing post for 10-1-1R.
10-1-3	_010 W	40.67	Left	W1-8	Chevron	24.00	30.00	-	1	5.00		WB off ramp. 300 ft west of CTH J
10-1-4	_010 W	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00		WB off ramp. 120 ft west of 10-1-3
10-1-5	_010 W	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00		WB off ramp. 240 ft west of 10-1-3
10-1-6	_010 W	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00		WB off ramp. 360 ft west of 10-1-3
10-1-7	_010 W	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00		WB off ramp. 480 ft west of 10-1-3
10-1-8	_010 W	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00		WB off ramp. 600 ft west of 10-1-3
SEGMENT SUBTOTALS									6	42	1	
PROJECT NO: 1000-20-76				HWY: VARIOUS		COUNTY: VARIOUS – NC REGION			MISCELLANEOUS QUANTITIES		SHEET NO: 36	
												E

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Waupaca County USH 10 Exit 253 Ramps (Churchill St) USH 10 WB at CTH A is plm 15.63									634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES				NOTES
10-2-1R	_010 W	no plm	Right	W13-3	Advisory Ramp Speed Plate (Yellow Black)	-	-	-			1	WB on ramp. 600 ft south of Apple Tree Ln
10-2-2	_010 W	no plm	Right	W13-3	Advisory Ramp Speed Plate (Yellow Black)	36.00	48.00	40		12.00		WB on ramp. 600 ft south of Apple Tree Ln
10-2-3	_010 E	no plm	Right	W1-2L	Road Curves Left (Yellow Black)	36.00	36.00	-	1	9.00		EB on ramp. 850 ft south of Apple Tree Ln
10-2-4	_010 E	no plm	Right	W13-1	Advisory Speed Plate (Yellow Black)	18.00	18.00	40		2.25		Same post as 10-2-3
10-2-5	_010 W	17.1	Left	W1-8	Chevron	24.00	30.00	-	1	5.00		WB off ramp. 1200 ft south of Apple Tree Ln
10-2-6	_010 W	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00		WB off ramp. 120 ft west of 10-2-5
10-2-7	_010 W	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00		WB off ramp. 240 ft west of 10-2-5
10-2-8	_010 W	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00		WB off ramp. 360 ft west of 10-2-5
10-2-9	_010 W	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00		WB off ramp. 480 ft west of 10-2-5
10-2-10	_010 W	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00		WB off ramp. 650 ft south of Apple Tree Ln. 560 ft w est of 10-2-5
SEGMENT SUBTOTALS									7	53.25	1	

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Marathon County STH 29 Exit 132 Ramps STH 29 EB mi over WIS 13 is 0.03.									634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH			
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES					NOTES		
29-1-1R	-	-	Right	W13-3	Advisory Ramp Speed Plate (Yellow Black)	-	-	-			1		WB on ramp. 100 ft east of WIS 13.		
29-1-2	-	-	Right	W13-3	Advisory Ramp Speed Plate (Yellow Black)	36.00	48.00	25		12.00			WB on ramp. 100 ft east of WIS 13.		
29-1-3R	-	-	Right	W13-1	Advisory Speed Plate (Yellow Black)	-	-	-			1		WB on ramp. 475 ft east of WIS 13		
29-1-4	-	-	Right	W13-1	Advisory Speed Plate (Yellow Black)	18.00	18.00	25		2.25			WB on ramp. 475 ft east of WIS 13		
29-1-5R	-	-	Left	W13-1	Advisory Speed Plate (Yellow Black)	-	-	-			1		WB on ramp. 475 ft east of WIS 13		
29-1-6	-	-	Left	W13-1	Advisory Speed Plate (Yellow Black)	18.00	18.00	25		2.25			WB on ramp. 475 ft east of WIS 13		
29-1-7R	_29 E	0.05	Right	W13-3	Advisory Ramp Speed Plate (Yellow Black)	-	-	-			1		EB off ramp. 100 ft east of WIS 13		
29-1-8	_29 E	0.05	Right	W13-3	Advisory Ramp Speed Plate (Yellow Black)	48.00	60.00	25		20.00			EB off ramp. 100 ft east of WIS 13		
29-1-9R	_29 E	0.14	Right	W13-1	Advisory turn & speed plate	-	-	-			1	1	EB off ramp. 575 ft east of WIS 13		
29-1-10R	_29 E	0.17	Left	W13-1	Advisory turn & speed plate	-	-	-			1		EB off ramp. 725 ft east of WIS 13		
29-1-12	_29 E	0.17	Left	W1-8	Chevron	24.00	30.00	-		5.00			EB off ramp. 725 ft east of WIS 13. Use existing post from 29-1-10R		
29-1-13	_29E	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00			EB off ramp. 80 ft east of 29-1-12		
29-1-14	_29E	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00			EB off ramp. 160 ft east of 29-1-12		
29-1-15	_29E	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00			EB off ramp. 240 ft east of 29-1-12		
29-1-16	_29E	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00			EB off ramp. 320 ft east of 29-1-12		
29-1-17	_29E	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00			EB off ramp. 400 ft east of 29-1-12		
29-1-18	_29E	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00			EB off ramp. 480 ft east of 29-1-12		
29-1-19	_29E	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00			EB off ramp. 560 ft east of 29-1-12		
29-1-20	_29E	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00			EB off ramp. 640 ft east of 29-1-12		
29-1-21	_29E	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00			EB off ramp. 720 ft east of 29-1-12		
29-1-22	_29E	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00			EB off ramp. 800 ft east of 29-1-12		
29-1-23	_29E	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00			EB off ramp. 880 ft east of 29-1-12		
SEGMENT SUBTOTALS									11	96.5	6	1			
PROJECT NO: 1000-20-76							HWY: VARIOUS		COUNTY: VARIOUS – NC REGION			MISCELLANEOUS QUANTITIES		SHEET NO: 38	E

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Marathon County STH 29 Exit 171 Ramps STH 29 WB mi under Alderson St is 73.365.									634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES					NOTES
29-2-1R	_029 WB	74.065	Right	W13-3	Advisory Ramp Speed Plate (Yellow Black)	-	-	-			1		WB off ramp
29-2-2	_029 WB	74.065	Right	W13-3	Advisory Ramp Speed Plate (Yellow Black)	48.00	60.00	35		20.00			WB off ramp
29-2-3	_029 WB	74.237	Left	W1-8	Chevron	24.00	30.00	-	1	5.00			WB off ramp. 420 ft west of Volkman St
29-2-4	_029 WB	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00			WB off ramp. 120 ft west of 29-2-3
29-2-5	_029 WB	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00			WB off ramp. 240 ft west of 29-2-3
29-2-6	_029 WB	no plm	Left	W1-8	Chevron	24.00	30.00	-	1	5.00			WB off ramp. 360 ft west of 29-2-4
29-2-7R	_029 EB	no plm	Right	W13-3	Advisory Ramp Speed Plate (Yellow Black)	-	-	-			1	1	EB on ramp. 0.05 mi east of Business 51
29-2-8R	_029 EB	no plm	Right	W13-1	Advisory Speed Plate (Yellow Black)	-	-	-			1		EB on ramp. 0.07 mi east of Business 51
29-2-9	_029 EB	no plm	Right	W13-1	Advisory Speed Plate (Yellow Black)	18.00	18.00	30		2.25			EB on ramp. 0.07 mi east of Business 51
SEGMENT SUBTOTALS									4	42.25	3	1	

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Marathon and Shawano Counties STH 29 from CTH Q to USH 45 South								635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH		
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES								NOTES	
29-3-1R	STH 29 EB	182.62					Wittenberg 13 Shawano 42 Green Bay 78						1		Remove existing sign Existing steel supports to remain	
29-3-2	STH 29 EB	182.62	D2-3	Destination/Distance (Three)	192	84	Hatley 3 Shawano 43 Green Bay 76		1			112			Install new sign on existing steel supports (Type B beams and bases)	
29-3-3R	STH 29 EB	183.85					EXIT 185 Y Hatley 1 MILE						1		Remove existing sign Existing steel supports to remain	
29-3-4	STH 29 EB	183.85	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 132	30 120	EXIT 185 Y Hatley 1 MILE		1			22.5 110			Install new sign on existing steel supports (Type B beams and bases)	
29-3-5R	STH 29 EB	184.87					EXIT 185 Y Hatley [TR]						1		Remove existing sign Existing steel supports to remain	
29-3-6	STH 29 EB	184.87	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 168	30 90	EXIT 185 Y Hatley [TR]		1			22.5 105			Install new sign on existing steel supports (Type B beams and bases)	
29-3-7	STH 29 EB	186.16	D2-3	Destination/Distance (Three)	192	84	Wittenberg 10 Shawano 40 Green Bay 72	913.8		1.6	98	112			Install new sign 2217' east of existing SPEED LIMIT sign 5280' east of CTH Y	
29-3-8R	STH 29 WB	199.14					EXIT 198 SOUTH [blank] BUS 45 Q 29 Wittenberg Clintonville 1/2 MILE						1		Remove existing sign Existing steel supports to remain	
29-3-9	STH 29 WB	199.32	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 216	30 186	EXIT 198 SOUTH [blank] BUS 45 Q 29 Wittenberg Clintonville 1/2 MILE		1			22.5 279			Install new sign on existing steel supports (Type B beams and bases)	
29-3-10R	STH 29 WB	198.61					EXIT 198 SOUTH [blank] BUS 45 Q 29 Wittenberg [TR] Clintonville						1		Remove existing sign Existing steel supports to remain	
29-3-11	STH 29 WB	198.61	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 264	30 156	EXIT 198 SOUTH [blank] BUS 45 Q 29 Wittenberg [TR] Clintonville		1			22.5 286			Install new sign on existing steel supports (Type B beams and bases)	
29-3-12R	STH 29 WB	197.37					EXIT 196 Q BUS 29 Wittenberg 1/2 MILE						1		Remove existing sign Existing steel supports to remain	
29-3-13	STH 29 WB	197.37	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 204	30 126	EXIT 196 Q BUS 29 Wittenberg 1/2 MILE		1			22.5 178.5			Install new sign on existing steel supports (Type B beams and bases)	
29-3-14R	STH 29 WB	196.79					EXIT 196 Q BUS 29 Wittenberg [TR]						1		Remove existing sign Existing steel supports to remain	
29-3-15	STH 29 WB	196.79	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 240	30 96	EXIT 196 Q BUS 29 Wittenberg [TR]		1			22.5 160			Install new sign on existing steel supports (Type B beams and bases)	
PROJECT NO: 1000-20-76					HWY: VARIOUS			COUNTY: VARIOUS – NC REGION			MISCELLANEOUS QUANTITIES			SHEET NO: 40		E

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Marathon and Shawano Counties STH 29 from CTH Q to USH 45 South									635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER	LINES								NOTES
29-3-16R	STH 29 WB	196.55						EXIT 195 45 NORTH M Wittenberg Antigo 1/2 MILE						1	2	Remove existing sign Existing steel supports to remain
29-3-17	STH 29 WB	196.55	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 204	30 186		EXIT 195 45 NORTH M Wittenberg Antigo 1/2 MILE					22.5 263.5			Install new sign on existing steel supports (Type C beams and bases)
29-3-18R	STH 29 WB	195.79						EXIT 195 45 NORTH M Wittenberg Antigo [TR]						1		Remove existing sign Existing steel supports to remain
29-3-19	STH 29 WB	195.79	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 240	30 162		EXIT 195 45 NORTH M Wittenberg Antigo [TR]					22.5 270			Install new sign on existing steel supports (Type C beams and bases)
29-3-20R	STH 29 WB	194.80						Schofield 22 Rothschild 22 Wausau 30						1	2	Remove existing sign and supports
29-3-21	STH 29 WB	194.70	D2-3	Destination/Distance (Three)	156	84		Hatley 10 Weston 17 Wausau 29	656.6		1.2	68	91			Install new sign 635' west of existing sign 5070' west of USH 45 North
29-3-22	STH 29 WB	191.52	D2-3	Destination/Distance (Three)	156	84		Hatley 6 Weston 14 Wausau 26	656.6		1.2	68	91			Install new sign 400' west of existing SPEED LIMIT sign 1050' west of STH 49
29-3-23R	STH 29 WB	186.50						EXIT 185 Y Hatley 1 MILE						1		Remove existing sign Existing steel supports to remain
29-3-24	STH 29 WB	186.50	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 132	30 120		EXIT 185 Y Hatley 1 MILE		1			22.5 110			Install new sign on existing steel supports (Type B beams and bases)
29-3-25R	STH 29 WB	185.51						EXIT 185 Y Hatley [TR]						1		Remove existing sign Existing steel supports to remain
29-3-26	STH 29 WB	185.51	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 168	30 90		EXIT 185 Y Hatley [TR]					22.5 105			Install new sign on existing steel supports (Type B beams and bases)
29-3-27	STH 29 WB	184.31	D2-2	Destination/Distance (Two)	156	60		Weston 7 Wausau 18	608.6		1.2	68	65			Install new sign 2000' west of existing WEST 29 sign 4435' west of CTH Y (Type A beams and bases)
									2835.6	8	5.2	302	2563	12	4	

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Shawano and Brown Counties STH 29 from STH 22 to CTH U									635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	NOTES
29-4-1R	STH 29 EB	223.70						EXIT 225 22 Shawano Clintonville 1 MILE						1				Remove existing sign Existing steel supports to remain
29-4-2	STH 29 EB	223.70	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	120 216	30 162		EXIT 225 22 Shawano Clintonville 1 MILE		1			25 243					Install new sign on existing steel supports (Type B beams and bases)
29-4-3R	STH 29 EB	224.68						EXIT 225 22 Shawano [TR] Clintonville						1				Remove existing sign Existing steel supports to remain
29-4-4	STH 29 EB	224.68	E1-5-P E4-1-A	Exit Number Panel Exit Direction Sign with Arrow	120 252	30 126		EXIT 225 22 Shawano [TR] Clintonville		1			25 220.5					Install new sign on existing steel supports (Type B beams and bases)
29-4-5R	STH 29 EB	226.05						EXIT 227 NORTH NORTH [blank] 47 55 K Shawano 1 MILE						1				Remove existing sign Existing steel supports to remain
29-4-6	STH 29 EB	226.05	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	120 180	30 150		EXIT 227 NORTH [blank] 47 55 K Shawano 1 MILE		1			25 187.5					Install new sign on existing steel supports (Type B beams and bases)
29-4-7	STH 29 EB	226.29	E3-1	Supplemental Guide Sign	120	102		SOUTH 47 55 AHEAD	683.6		1.2	68	85					Install sign 800' east of existing Advance Exit Guide Sign 1.05 miles east of STH 22 (Type A beams and bases)
29-4-8R	STH 29 EB	227.06						EXIT 227 NORTH NORTH [blank] 47 55 K Shawano [TR]						1				Remove existing sign Existing steel supports to remain
29-4-9	STH 29 EB	227.06	E1-5-P E4-1-A	Exit Number Panel Exit Direction Sign with Arrow	120 216	30 120		EXIT 227 NORTH [blank] 47 55 K Shawano [TR]		1			25 180					Install new sign on existing steel supports (Type B beams and bases)
29-4-10R	STH 29 EB	228.60						Bonduel 5 Green Bay 30						1				Remove existing sign Existing steel supports to remain
29-4-11	STH 29 EB	228.60	D2-2	Destination/Distance (Two)	192	60		Bonduel 5 Green Bay 29		1			80					Install new sign on existing steel supports (Type B beams and bases)
29-4-12R	STH 29 EB	232.92						EXIT 234 47 117 Bonduel Appleton 1 MILE						1				Remove existing sign Existing steel supports to remain
29-4-13	STH 29 EB	232.92	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	120 168	30 156		EXIT 234 47 117 Bonduel Appleton 1 MILE		1			25 182					Install new sign on existing steel supports (Type B beams and bases)
29-4-14	STH 29 EB	233.15	D4-4	Park & Ride Exit_ with car symbol	144	90		[car] Park & Ride EXIT 234	665.6		1.2	68	90					Install sign 800' east of existing Advance Exit Guide Sign 3.63 miles east of CTH T (Type A beams and bases)
29-4-15R	STH 29 EB	233.57						Cecil Black Creek EXIT 234						1				Remove existing sign Existing steel supports to remain
29-4-16	STH 29 EB	233.57	E3-1	Supplemental Guide Sign	156	84		Cecil Black Creek EXIT 234		1			91					Install new sign on existing steel supports (Type B beams and bases)
29-4-17R	STH 29 EB	233.74						EXIT 234 47 117 Bonduel [TR] Appleton						1				Remove existing sign Existing steel supports to remain
29-4-18	STH 29 EB	233.74	E1-5-P E4-1-A	Exit Number Panel Exit Direction Sign with Arrow	120 204	30 132		EXIT 234 47 117 Bonduel [TR] Appleton		1			25 187					Install new sign on existing steel supports (Type B beams and bases)

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Shawano and Brown Counties STH 29 from STH 22 to CTH U									635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	NOTES		
29-4-19R	STH 29 EB	235.12						Green Bay 24							1	2		Remove existing sign and posts		
29-4-20	STH 29 EB	235.12	D2-3	Destination/Distance (Three)	192	84		Hobart 16 Seymour 17 Green Bay 23	961.8		1.6	98	112					Install new sign 10' east of exsiting sign 4850' east of STH 47 South (Type B beams and bases)		
29-4-21R	STH 29 EB	240.78						EXIT 242 55 160 Pulaski Seymour 1 MILE						1				Remove existing sign Existing steel supports to remain		
29-4-22	STH 29 EB	240.78	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	120 168	30 156		EXIT 242 55 160 Pulaski Seymour 1 MILE		1			25 182					Install new sign on existing steel supports (Type B beams and bases)		
29-4-23	STH 29 EB	241.06	D4-4	Park & Ride Exit _ with car symbol	144	90		[car] Park & Ride EXIT 242	665.6		1.2	68	90					Install sign 800' east of existing Advance Exit Guide Sign 1055' east of CTH C (Type A beams and bases)		
29-4-24R	STH 29 EB	241.76						EXIT 242 55 160 Pulaski [TR] Seymour						1				Remove existing sign Existing steel supports to remain		
29-4-25	STH 29 EB	241.76	E1-5-P E4-1-A	Exit Number Panel Exit Direction Sign with Arrow	120 204	30 132		EXIT 242 55 160 Pulaski [TR] Seymour		1			25 187					Install new sign on existing steel supports (Type B beams and bases)		
29-4-26R	STH 29 EB	243.15						Green Bay 16							1	2		Remove existing sign and posts		
29-4-27	STH 29 EB	243.15	D2-2	Destination/Distance (Two)	180	60		Hobart 8 Green Bay 15	614.6		1.2	68	75					Install new sign 10' east of existing sign 4960' east of STH 55 South (Type A beams and bases)		
29-4-28	STH 29 EB	248.21	E3-1	Supplemental Guide Sign	120	102		SOUTH 32 AHEAD	683.6		1.2	68	85					Install sign 800' east of existing Advance Exit Guide Sign 6700' west of STH 32 North		
29-4-29R	STH 29 EB	250.08						Green Bay 8							1	2		Remove existing sign and posts		
29-4-30	STH 29 EB	250.39	D2-2	Destination/Distance (Two)	180	60		Hobart 1 Green Bay 8	614.6		1.2	68	75					Install new sign 1500' east of existing sign 4750' east of STH 32 North (Type A beams and bases)		
29-4-31R	STH 29 WB	248.878						Bonduel 16 Shawano 25							1	2		Remove existing sign and posts		
29-4-32	STH 29 WB	248.578	D2-3	Destination/Distance (Three)	168	84		Bonduel 14 Shawano 23 Wausau 82	659.6		1.2	68	98					Install new sign 1500' west of existing sign 4750' west of STH 32 North (Type B beams and bases)		
29-4-33R	STH 29 WB	243.47						EXIT 242 SOUTH [blank] 55 160 Pulaski Seymour 1 MILE						1				Remove existing sign Existing steel supports to remain		
29-4-34	STH 29 WB	243.47	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	120 168	30 186		EXIT 242 SOUTH [blank] 55 160 Pulaski Seymour 1 MILE		1			25 217					Install new sign on existing steel supports (Type B beams and bases)		
29-4-35	STH 29 WB	243.32	D4-4	Park & Ride Exit _ with car symbol	144	90		[car] Park & Ride EXIT 242	665.6		1.2	68	90					Install sign 800' west of existing Advance Exit Guide Sign 1.12 miles west of Redwood Dr (Type A beams and bases)		
29-4-36R	STH 29 WB	243.06						NORTH 55 AHEAD						1			2	Remove existing sign and supports		
29-4-37	STH 29 WB	243.06	E3-1	Supplemental Guide Sign	120	102		NORTH 55 AHEAD	683.6		1.2	68	85					Install sign 800' west of Park & Ride sign 1.20 miles west of Redwood Dr (Type A bases and supports)		
29-4-38R	STH 29 WB	242.58						EXIT 242 SOUTH [blank] 55 160 Pulaski [TR] Seymour						1				Remove existing sign Existing steel supports to remain		
PROJECT NO: 1000-20-76					HWY: VARIOUS					COUNTY: VARIOUS – NC REGION				MISCELLANEOUS QUANTITIES				SHEET NO: 43		E

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Shawano and Brown Counties STH 29 from STH 22 to CTH U								635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	NOTES
29-4-39	STH 29 WB	242.58	E1-5-P E4-1-A	Exit Number Panel Exit Direction Sign with Arrow	120 204	30 156	EXIT 242 SOUTH [blank] 55 160 Pulaski [TR] Seymour		1			25 221					Install new sign on existing steel supports (Type B beams and bases)
29-4-40R	STH 29 WB	241.54					Bonduel 6 Shawano 12 Wausau 72							1	2		Remove existing sign and posts
29-4-41	STH 29 WB	241.54	D2-3	Destination/Distance (Three)	168	84	Bonduel 7 Shawano 14 Wausau 75	659.6		1.2	68	98					Install new sign 10' west of existing sign 4750' west of STH 55 South (Type B beams and bases)
29-4-42R	STH 29 WB	235.49					EXIT 234 SOUTH [blank] 47 117 Bonduel Appleton 1 MILE						1				Remove existing sign Existing steel supports to remain
29-4-43	STH 29 WB	235.49	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	120 168	30 186	EXIT 234 SOUTH [blank] 47 117 Bonduel Appleton 1 MILE		1			25 217					Install new sign on existing steel supports (Type B beams and bases)
29-4-44	STH 29 WB	235.20	D4-4	Park & Ride Exit_ with car symbol	144	90	[car] Park & Ride EXIT 234	665.6		1.2	68	90					Install sign 1600' west of existing Advance Exit Guide Sign 1.53 miles west of CTH BE (Type A beams and bases)
29-4-45R	STH 29 WB	235.11					NORTH 47 AHEAD						1			2	Remove existing sign and supports
29-4-46	STH 29 WB	235.11	E3-1	Supplemental Guide Sign	120	102	NORTH 47 AHEAD	683.6		1.2	68	85					Install sign 800' west of Park & Ride sign 1.68 miles west of CTH BE (Type A beams and bases)
29-4-47R	STH 29 WB	234.70					Cecil Black Creek EXIT 234						1				Remove existing sign Existing steel supports to remain
29-4-48	STH 29 WB	234.70	E3-1	Supplemental Guide Sign	156	84	Cecil Black Creek EXIT 234		1			91					Install new sign on existing steel supports (Type B beams and bases)
29-4-49R	STH 29 WB	234.53					EXIT 234 SOUTH [blank] 47 117 Bonduel [TR] Appleton						1				Remove existing sign Existing steel supports to remain
29-4-50	STH 29 WB	234.53	E1-5-P E4-1-A	Exit Number Panel Exit Direction Sign with Arrow	120 204	30 156	EXIT 234 SOUTH [blank] 47 117 Bonduel [TR] Appleton		1			25 221					Install new sign on existing steel supports (Type B beams and bases)
29-4-51R	STH 29 WB	233.45					Shawano 7 Wittenberg 35										Remove existing sign Existing steel supports to remain
29-4-52	STH 29 WB	233.45	D2-2	Destination/Distance (Two)	156	60	Shawano 6 Wausau 67		1			65					Install new sign on existing steel supports (Type B beams and bases)
29-4-53R	STH 29 WB	228.81					EXIT 227 NORTH NORTH 47 55 BUSINESS 29 K Shawano EXIT 1 MILE						1				Remove existing sign Existing steel supports to remain
29-4-54	STH 29 WB	228.81	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	120 216	30 150	EXIT 227 BUS 47 55 K 29 Shawano 1 MILE		1			25 225					Install new sign on existing steel supports (Type B beams and bases)
PROJECT NO: 1000-20-76								HWY: VARIOUS			COUNTY: VARIOUS – NC REGION			MISCELLANEOUS QUANTITIES			SHEET NO: 44

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Shawano and Brown Counties STH 29 from STH 22 to CTH U									635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	NOTES
29-4-55R	STH 29 WB	227.81						EXIT 227 NORTH NORTH 47 55 BUSINESS 29 K Shawano [TR]						1				Remove existing sign Existing steel supports to remain
29-4-56	STH 29 WB	227.81	E1-5-P E4-1-A	Exit Number Panel Exit Direction Sign with Arrow	120 252	30 120		EXIT 227 BUS 47 55 K 29 Shawano [TR]		1			25 210					Install new sign on existing steel supports (Type B beams and bases)
29-4-57R	STH 29 WB	226.57						EXIT 225 22 Shawano Clintonville 1 MILE						1				Remove existing sign Existing steel supports to remain
29-4-58	STH 29 WB	226.57	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	120 216	30 162		EXIT 225 22 Shawano Clintonville 1 MILE		1			25 243					Install new sign on existing steel supports (Type B beams and bases)
29-4-59R	STH 29 WB	225.52						EXIT 225 22 Shawano [TR] Clintonville						1				Remove existing sign Existing steel supports to remain
29-4-60	STH 29 WB	225.52	E1-5-P E4-1-A	Exit Number Panel Exit Direction Sign with Arrow	120 252	30 126		EXIT 225 22 Shawano [TR] Clintonville		1			25 220.5					Install new sign on existing steel supports (Type B beams and bases)
									8907	20	16	914	5228.5	21	5	10	4	

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Portage County
IH 39 Exit 158 Ramps
No plm for ramp

SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES	634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	637.2230 Signs Type II Reflective F SF	NOTES
39-1-1	-	-	Right	W1-1L	Road Turns Left (Yellow Black)	36.00	36.00	-	1	9	Add 30 mph advisory for SB on ramp. 200 ft south of Main St. (WIS 66)
39-1-2	-	-	Right	W13-1	Advisory Speed Plate (Yellow Black)	18.00	18.00	30		2.25	Same post as 39-1-1

SEGMENT SUBTOTALS									1	11.25	

PROJECT NO: 1000-20-76	HWY: VARIOUS	COUNTY: VARIOUS – NC REGION	MISCELLANEOUS QUANTITIES	SHEET NO: 45	E
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Portage County IH 39 Exit 161 Ramps IH 39 NB mi over Reserve St. is 65.04									637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	NOTES		
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES					
39-2-1R	_39 N	65.33	Right	W13-2B	Advisory Exit Speed Pretzel (Yellow Black)	-	-	-					
39-2-2	_39 N	66.33	Right	W13-2B	Advisory Exit Speed Pretzel (Yellow Black)	48.00	90.00	25					
39-2-3R	_39 N	65.42	Right	W13-3	Advisory Ramp Speed Plate (Yellow Black)	-	-	-					
39-2-4	_39 N	65.42	Right	W13-3	Advisory Ramp Speed Plate (Yellow Black)	48.00	60.00	25					
39-2-5R	_39 N	65.57	Right	W13-1	Advisory Speed Plate (Yellow Black)	-	-	-					
39-2-6	_39 N	65.57	Right	W13-1	Advisory Speed Plate (Yellow Black)	24.00	24.00	25					
SEGMENT SUBTOTALS									54	3			
Portage County IH 39 Exit 165 Ramps IH 39 NB mi under Casimir Rd is 67.24. IH 39 SB mi under Maple Dr is 20.40 USH 10 EB mi over County E is 34.96. USH 10 WB mi at IH 39 ramp split is 44.867									637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	NOTES		
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES					
39-3-1R	_039 N	68.430	Right	W13-2	Advisory Exit Speed Plate (Yellow Black)	-	-	-					
39-3-2	_039 N	68.430	Right	W13-2	Advisory Exit Speed Plate (Yellow Black)	48.00	60.00	60					
39-3-3R	_010 W	45.107	Right	W13-1	Advisory Curve with speed (Yellow Black)	-	-	-					
39-3-4	_010 W	45.107	Right	W13-1	Advisory Curve with speed (Yellow Black)	24.00	24.00	60					
39-3-5R			Right	W13-1	Advisory Speed Plate (Yellow Black)	-	-	-					
39-3-6			Right	W13-1	Advisory Speed Plate (Yellow Black)	24.00	24.00	50					
39-3-7R			Right	W13-2	Advisory Exit Speed Plate (Yellow Black)	-	-	-					
39-3-8			Right	W13-2	Advisory Exit Speed Plate (Yellow Black)	36.00	48.00	50					
39-3-9R	_039 S	22.350	Right	W13-2	Advisory Exit Speed Plate (Yellow Black)	-	-	-					
39-3-10	_039 S	22.350	Right	W13-2	Advisory Exit Speed Plate (Yellow Black)	48.00	60.00	50					
SEGMENT SUBTOTALS									60	5			
PROJECT NO: 1000-20-76				HWY: VARIOUS		COUNTY: VARIOUS – NC REGION			MISCELLANEOUS QUANTITIES		SHEET NO:	46	E

Marathon County IH 39 Exit 185 Ramps

637.2230
Signs
Type II
Reflective F
SF

638.2602	Removing Signs Type II EACH
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SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES
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NOTES

39-4-1R	_039 N	88.760	Right	W13-2	Advisory Exit Speed Plate (Yellow Black)	-	-	-		1	NB off ramp
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39-4-2	_039 N	88.760	Right	W13-2	Advisory Exit Speed Plate (Yellow Black)	48.00	60.00	50	20.00		NB off ramp. Same post as 39-4-1R
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39-4-3R	_039 S	2.777	Right	W13-2	Advisory Exit Speed Plate (Yellow Black)	-	-	-	1	SB off ramp
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39-4-4	_039 S	2.777	Right	W13-2	Advisory Exit Speed Plate (Yellow Black)	36.00	48.00	30	12.00	SB off ramp. Same post as 39-4-3R
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39-4-5R	_039 S	no plm	Right	W13-3	Advisory Ramp Speed (Yellow Black)	-	-	-		1	SB on ramp
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39-4-6	_039 S	no plm	Right	W13-3	Advisory Ramp Speed (Yellow Black)	36.00	48.00	40	12.00	SB on ramp. Same post as 39-4-5R
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SEGMENT SUBTOTALS	44
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44

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PROJECT NO: 1000-20-76

HWY: VARIOUS

COUNTY: VARIOUS – NC REGION

MISCELLANEOUS QUANTITIES

SHEET NO: 47

E

FILE NAME : _____

PLOT DATE : _____

PLOT BY : _____

PLOT NAME : _____

ORG DATE :

ORIGINATOR : DIST _

PLOT SCALE : 1:1

3

Portage County IH 39 from STH 54 to CTH D									635.0300 Sign Supports Replacing Base Connection Bolts EACH	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES				NOTES	
39-5-1R	IH 39 SB	150.81					Bancroft 7 Portage 62 Madison 100			1	Remove existing sign Existing steel supports to remain	
39-5-2	IH 39 SB	150.81	D2-3	Destination/Distance (Three)	168	84	W 7 Portage 62 Madison 94	1	98		Install new sign on existing steel supports (Type B beams and bases)	
39-5-3R	IH 39 SB	144.63					EXIT 143 W Bancroft 1 MILE			1	Remove existing sign Existing steel supports to remain	
39-5-4	IH 39 SB	144.63	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 144	30 90	EXIT 143 W 1 MILE	1	22.5 90		Install new sign on existing steel supports (Type B beams and bases)	
39-5-5R	IH 39 SB	143.70					EXIT 143 W Bancroft [TR]			1	Remove existing sign Existing steel supports to remain	
39-5-6	IH 39 SB	143.70	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 156	30 54	EXIT 143 W [TR]	1	22.5 58.5		Install new sign on existing steel supports (Type B beams and bases)	
39-5-7R	IH 39 SB	142.37					Plainfield 7 Portage 54 Madison 92			1	Install new sign on existing steel supports (Type B beams and bases)	
39-5-8	IH 39 SB	142.37	D2-3	Destination/Distance (Three)	168	84	D 3 Portage 53 Madison 85	1	98		Remove existing sign Existing steel supports to remain	
39-5-9R	IH 39 SB	141.20					EXIT 139 D Almond 1 MILE			1	Remove existing sign Existing steel supports to remain	
39-5-10	IH 39 SB	141.20	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 144	30 120	EXIT 139 D Almond 1 MILE	1	22.5 120		Install new sign on existing steel supports (Type B beams and bases)	
39-5-11R	IH 39 SB	140.20					EXIT 139 D Almond [TR]			1	Remove existing sign Existing steel supports to remain	
39-5-12	IH 39 SB	140.20	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 192	30 90	EXIT 139 D Almond [TR]	1	22.5 120		Install new sign on existing steel supports (Type B beams and bases)	
SEGMENT SUBTOTALS									6	674.5	6	
PROJECT NO: 1000-20-76				HWY: VARIOUS		COUNTY: VARIOUS – NC REGION			MISCELLANEOUS QUANTITIES		SHEET NO: 48	E

3

Marathon County USH 51 from Bridge St to CTH U									636.0100 Sign Supports Concrete Masonry CY	636.1500 Sign Supports Steel Coated Reinforcement HS LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	641.1200 Sign Bridge Cantilevered S-37-159 LS	NOTES
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION		WIDTH	HEIGHT	ORDER LINES							
51-1-1R	USH 51 NB	193.91						EXITS 194 A-B BUS U 51 K Merrill Ave [TR]				1	2		Remove existing sign and steel supports
51-1-2	USH 51 NB	193.92	E1-5-P E6-1	Exit Number Panel Exit Direction Sign (Overhead)	156 180	30 150	EXITS 194 A-B BUS K U 51 Merrill Ave EXIT [TR] ONLY	8	990	32.5 187.5				1	S-37-159 I beams incidental
SEGMENT SUBTOTALS									8	990	220	1	2		
Marathon County STH 29 Exit 164A Ramps Signs are on STH 52 plm STH 52 WB mi at Stewart Ave is 64.326. STH 52 EB mi at Stewart Ave is 0.531											637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH	NOTES		
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION		WIDTH	HEIGHT	ORDER LINES						
52-1-1R	_052 EB	0.160	Left	W13-2C LA	Advisory Exit Speed Plate (Yellow Black)		-	-	-			1	EB off ramp. Sign is 0.25 mi east of sign structure S-37-701.		
52-1-2	_052 EB	0.160	Left	W13-2C LA	Advisory Exit Speed Plate (Yellow Black)		48.00	90.00	50	30.00			EB off ramp. Sign is 0.25 mi east of sign structure S-37-701.		
52-1-3R	_052 WB	64.356	Right	W13-1	Advisory Speed Plate (Yellow Black)		-	-	-			1	STH 29 WB On Ramp. 0.03 mi S of Stewart Ave		
52-1-4	_052 WB	64.356	Right	W13-1	Advisory Speed Plate (Yellow Black)		18.00	18.00	40	2.25			STH 29 WB On Ramp. 0.03 mi S of Stewart Ave		
52-1-5R	_052 WB	64.356	Left	W13-1	Advisory Speed Plate (Yellow Black)		-	-	-			1	STH 29 WB On Ramp. 0.03 mi S of Stewart Ave		
52-1-6	_052 WB	64.356	Left	W13-1	Advisory Speed Plate (Yellow Black)		18.00	18.00	40	2.25			STH 29 WB On Ramp. 0.03 mi S of Stewart Ave		
SEGMENT SUBTOTALS											34.5	3			
PROJECT NO: 1000-20-76				HWY: VARIOUS			COUNTY: VARIOUS – NC REGION			MISCELLANEOUS QUANTITIES			SHEET NO:		E

Wood County STH 80 Babcock STH 80 NB at Necedah Rd is Mi 4.22. STH 80 SB at Clark Ave is Mi 20.07.									634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	637.2230 Signs Type II Reflective F SF	638.2602 Removing Signs Type II EACH		
SIGN NUMBER	ROUTE	MARKER	POSITION	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES				NOTES	
80-1-1	_080 S	20.109	Left	W1-8	Chevron (Yellow Black)	24.00	30.00	-	1	5.00		Post placed in asphaltic surface	
80-1-2	_080 S	20.119	Left	W1-8	Chevron (Yellow Black)	24.00	30.00	-	1	5.00		Post placed in asphaltic surface	
80-1-3	_080 S	20.129	Left	W1-8	Chevron (Yellow Black)	24.00	30.00	-	1	5.00			
80-1-4	_080 S	20.149	Left	W1-8	Chevron (Yellow Black)	24.00	30.00	-	1	5.00			
80-1-5	_080 S	20.159	Left	W1-8	Chevron (Yellow Black)	24.00	30.00	-	1	5.00			
80-1-6	_080 N	4.350	Right	W1-8	Chevron (Yellow Black)	24.00	30.00	-		5.00		Same post as 80-1-4	
80-1-7	_080 N	4.360	Right	W1-8	Chevron (Yellow Black)	24.00	30.00	-		5.00		Same post as 80-1-3	
80-1-8R	_080 N	4.360	Right	W1-6	One Directional Arrow (Yellow Black)	-	-	-			1		
80-1-9	_080 N	4.360	Right	W1-6	One Directional Arrow (Yellow Black)	60.00	30.00	-		12.50		Same post as 80-1-8R	
80-1-10	_080 N	4.370	Right	W1-8	Chevron (Yellow Black)	24.00	30.00	-		5.00		Same post as 80-1-2	
80-1-11	_080 N	4.380	Right	W1-8	Chevron (Yellow Black)	24.00	30.00	-		5.00		Same post as 80-1-1	
SEGMENT SUBTOTALS									5	57.5	1		
PROJECT NO: 1000-20-76				HWY: VARIOUS		COUNTY: VARIOUS – NC REGION			MISCELLANEOUS QUANTITIES			SHEET NO: 50	E

NC Region Segment Summary		634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	636.1500 Sign Supports Steel Coated Reinforcement HS LBS	637.1220 Signs Type I Reflective SH SF	637.2230 Signs Type II Reflective F SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	641.1200 Sign Bridge Cantilevered S-37-159 LS
10-1	USH 10 Exit 230 Ramps	6	0	0	0	0		0	42	0	1	0	0	
10-2	USH 10 Exit 253 Ramps (Churchill St)	7	0	0	0	0		0	53.25	0	1	0	0	
10-3	USH 10 Exit 254 Ramps	1	0	0	0	0		0	11.25	0	0	0	0	
29-1	STH 29 Exit 132 Ramps	11	0	0	0	0	0	0	96.5	0	6	1	0	0
29-2	STH 29 Exit 171 Ramps	4	0	0	0	0	0	0	42.25	0	3	1	0	0
29-3	STH 29 from CTH Q to USH 45 South	0	2835.6	8	5.2	302	0	2563	0	12	0	0	4	0
29-4	STH 29 from STH 22 to CTH U	0	8907	20	16	914	0	5228.5	0	21	5	10	4	0
39-1	IH 39 Exit 158 Ramps	1	0	0	0	0	0	0	11.25	0	0	0	0	0
39-2	IH 39 Exit 161 Ramps	0	0	0	0	0	0	0	54	0	3	0	0	0
39-3	IH 39 Exit 165 Ramps	0	0	0	0	0	0	0	60	0	5	0	0	0
39-4	IH 39 Exit 185 Ramps	0	0	0	0	0	0	0	44	0	3	0	0	0
39-5	IH 39 from STH 54 to CTH D	0	0	6	0	0	0	674.5	0	6	0	0	0	0
51-1	USH 51 from Bridge St to CTH U	0	0	0	8	0	990	220	0	1	0	0	2	1
52-1	STH 29 Exit 164A Ramps	0	0	0	0	0	0	0	34.5	0	3	0	0	0
80-1	STH 80 Babcock	5	0	0	0	0	0	0	57.5	0	1	0	0	0
REGION SUBTOTALS		35	11742.6	34	29.2	1216	990	8686	506.5	40	31	12	10	1
PROJECT NO: 1000-20-76 HWY: VARIOUS COUNTY: VARIOUS – NC REGION MISCELLANEOUS QUANTITIES SHEET NO: 51 E														

3

Douglas County USH 2 from STH 13 to USH 53 South								635.0300 Sign Supports Replacing Base Connection Bolts EACH	637.1230 Signs Type I Reflective F SF	638.2601 Removing Signs Type I EACH	
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES				NOTES
2-1-1R	USH 2 EB	225.64					WATCH FOR TRUCKS CHANGING LANES			1	Remove existing sign Existing steel supports to remain
2-1-2	USH 2 EB	225.64	W7-61	WATCH FOR TRUCKS CHANGING LANES	120 in	78 in	WATCH FOR TRUCKS CHANGING LANES	1	65		Install new sign on existing steel supports (Type A Bases and Supports)
2-1-3R	USH 2 WB	224.73					WATCH FOR TRUCKS CHANGING LANES			1	Remove existing sign Existing steel supports to remain
2-1-4	USH 2 WB	224.73	W7-61	WATCH FOR TRUCKS CHANGING LANES	120 in	78 in	WATCH FOR TRUCKS CHANGING LANES	1	65		Install new sign on existing steel supports (Type A Bases and Supports)
SEGMENT SUBTOTALS								2	130	2	
PROJECT NO: 1000-20-76				HWY: VARIOUS		COUNTY: VARIOUS – NW REGION		MISCELLANEOUS QUANTITIES		SHEET NO: 52	
											E

3

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Chippewa County STH 29 from CTH T to STH 178								635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	635.9010.S Sign Supports Shorten Structural Steel EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES									NOTES
29-5-1R	STH 29 EB	68.65					EXIT 69 T Eau Claire 1/2 MILE							1		Remove existing sign Existing steel supports to remain
29-5-2	STH 29 EB	68.65	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 204	30 120	EXIT 69 T Eau Claire 1/2 MILE		1				22.5 170			Install new sign on existing steel supports (Type A Bases and Supports)
29-5-3R	STH 29 EB	70.64					Chippewa Falls Exits 90th St BUS 29 1 1/2 53 NORTH 5 1/2 178 BUS 29 DOWNTOWN Seymour Cray Sr Blvd 9									Remove existing sign Existing steel supports to remain
29-5-4	STH 29 EB	70.64	E8-1-A	Community Interchanges Identification Sign	324	132	Chippewa Falls Exits 90th St BUS 29 1 1/2 53 NORTH 5 1/2 178 Seymour Cray Sr Blvd 9		1				297			Install new sign on existing steel supports (Type C Bases and Supports)
29-5-5aR	STH 29 EB	71.13					EXIT 72 BUS 29 Chippewa Falls 1 MILE							1		Remove existing sign Existing steel supports to remain
29-5-5b	STH 29 EB	71.13	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 156	30 126	EXIT 72 BUS 29 90th St 1 MILE		1				22.5 136.5			Install new sign on existing steel supports (Type C Bases and Supports)
29-5-6R	STH 29 EB	71.75					90th St EXIT 72							1	2	Remove existing sign and supports
29-5-7R	STH 29 EB	72.06					EXIT 72 BUS 29 Chippewa Falls [TR]							1		Remove existing sign Existing steel supports to remain
29-5-8	STH 29 EB	72.06	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 192	30 96	EXIT 72 BUS 29 90th St [TR]		1				22.5 128			Install new sign on existing steel supports (Type C Bases and Supports)
29-5-9R	STH 29 EB	74.83					EXITS 75 A-B 53 Superior Eau Claire 1 MILE							1		Remove existing sign Existing steel supports to remain
29-5-10	STH 29 EB	74.83	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	156 204	30 162	EXITS 75 A-B 53 TO 124 Eau Claire Superior 1 MILE		1				32.5 229.5			Install new sign on existing steel supports (Type B Bases and Supports)
29-5-11aR	STH 29 EB	75.13					Lake Hallie EXIT 75A Chippewa Falls EXIT 75B							1		Remove existing sign Existing steel supports to remain
29-5-11b	STH 29 EB	75.13	E3-1	Supplemental Guide Sign	180	114	Lake Hallie EXIT 75A Chippewa Falls EXIT 75B		1				142.5			Install new sign on existing steel supports (Type B Bases and Supports)
29-5-12aR	STH 29 EB	75.29					TO 124 EXIT 75A							1		Remove existing sign and supports
29-5-13R	STH 29 EB	75.45					29 EAST Green Bay AHEAD							1	2	Remove existing sign and supports
29-5-14	STH 29 EB	75.82	E6-51	Advance Exit Guide Sign (Overhead)	156	108	29 EAST Green Bay AHEAD						117			S-9-23 I Beams incidental
29-5-15R	STH 29 EB	75.82					EXIT 75B 53 NORTH Superior 1/2 MILE							1		S-9-23 Remove existing sign
PROJECT NO: 1000-20-76					HWY: VARIOUS			COUNTY: VARIOUS – NW REGION			MISCELLANEOUS QUANTITIES			SHEET NO: 53		E

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Chippewa County STH 29 from CTH T to STH 178									635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	635.9010.S Sign Supports Shorten Structural Steel EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH		
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES										NOTES	
29-5-16	STH 29 EB	75.82	E1-5-P E6-51	Exit Number Panel Advance Exit Guide Sign (Overhead)	120 144	30 114	EXIT 75B 53 NORTH Superior 1/2 MILE							25 114			S-9-23 Reuse existing I beams	
29-5-17R	STH 29 EB	75.82					EXIT 75A 53 SOUTH Eau Claire [TR]								1		S-9-23 Remove existing sign and I beams	
29-5-18	STH 29 EB	75.82	E1-5-P E6-1	Exit Number Panel Exit Direction Sign (Overhead)	120 204	30 108	EXIT 75A SOUTH TO 53 124 Eau Claire [TR]							25 153			S-9-23 I beams incidental	
29-5-19R	STH 29 EB	76.27					29 EAST Green Bay [DA] [DA]								1		S-9-13 Remove existing sign	
29-5-20	STH 29 EB	76.27	E6-51	Advance Exit Guide Sign (Overhead)	204	126	29 EAST Green Bay [DA] [DA]							178.5			S-9-13 Reuse existing I beams	
29-5-21R	STH 29 EB	76.27					EXIT 75B 53 NORTH Superior EXIT [TR] ONLY								1		S-9-13 Remove existing sign	
29-5-22	STH 29 EB	76.27	E1-5-P E6-1	Exit Number Panel Exit Direction Sign (Overhead)	120 168	30 126	EXIT 75B 53 NORTH Superior EXIT [TR] ONLY							25 147			S-9-13 Reuse existing I beams	
29-5-23R	STH 29 EB	77.34					178 BUS 29 Seymour Cray Sr Blvd 2 Wausau 90 Green Bay 183								1		Remove existing sign Existing steel supports to remain	
29-5-24	STH 29 EB	77.34	D2-3	Destination/Distance (Three)	192	90	178 BUS 29 2 Wausau 88 Green Bay 179				2			120			Install new sign on existing steel supports Shorten steel sign supports (Type C Bases and Supports)	
29-5-25R	STH 29 EB	78.27					EXIT 79 BUS 29 178 Chippewa Falls 1 MILE								1		Remove existing sign Existing steel supports to remain	
29-5-26	STH 29 EB	78.27	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 276	30 126	EXIT 79 178 BUS 29 Chippewa Falls 1 MILE			1				22.5 241.5			Install new sign on existing steel supports (Type C Bases and Supports)	
29-5-27R	STH 29 EB	78.87					Seymour Cray Sr Blvd EXIT 79								1		Remove existing sign Existing steel supports to remain	
29-5-27a	STH 29 EB	78.87	E3-1	Supplemental Guide Sign	180	84	Seymour Cray Sr Blvd EXIT 79			1				105			Remove existing sign Existing steel supports to remain	
29-5-28R																	Eliminated from project	
29-5-29																	Eliminated from project	
29-5-30R	STH 29 EB	79.17					Chippewa Falls Downtown Tourist Information EXIT 79								1		Remove existing sign Existing steel supports to remain	
29-5-31	STH 29 EB	79.17	E3-1	Supplemental Guide Sign	180	114	Tourist Information Downtown Chippewa Falls EXIT 79			1				142.5			Install new sign on existing steel supports (Type C Bases and Supports)	
29-5-32R	STH 29 EB	79.33					EXIT 79 BUS 29 178 Chippewa Falls [TR]								1		Remove existing sign Existing steel supports to remain	
29-5-33	STH 29 EB	79.33	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 300	30 96	EXIT 79 178 BUS 29 Chippewa Falls [TR]			1				22.5 200			Install new sign on existing steel supports (Type C Bases and Supports)	
PROJECT NO: 1000-20-76					HWY: VARIOUS				COUNTY: VARIOUS – NW REGION			MISCELLANEOUS QUANTITIES				SHEET NO: 54		E

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3	Chippewa County STH 29 from CTH T to STH 178							635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	635.9010.S Sign Supports Shorten Structural Steel EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	3		
	SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES									NOTES	
	29-5-34R	STH 29 WB	81.33					Chippewa Falls Exits 178 Bus 29 Seymour Cray Sr Blvd DOWNTOWN 1 1/2 53 NORTH 5 90th St/Bus 29 9						1			Remove existing sign Existing steel supports to remain	
	29-5-35	STH 29 WB	81.33	E8-1A	Community Interchanges Identification Sign	324	132	Chippewa Falls Exits 178 Seymour Cray Sr Blvd 1 1/2 53 NORTH 5 90th St 9		1			297				Install new sign on existing steel supports (Type C Bases and Supports)	
	29-5-36R	STH 29 WB	80.61					EXIT 79 BUS 29 178 Chippewa Falls 2/3 MILE						1			Remove existing sign Existing steel supports to remain	
	29-5-37	STH 29 WB	80.61	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 276	30 126	EXIT 79 178 BUS 29 Chippewa Falls 3/4 MILE		1			22.5 241.5				Install new sign on existing steel supports (Type C Bases and Supports)	
	29-5-38R	STH 29 WB	80.52					Seymour Cray Sr Blvd EXIT 79						1			Remove existing sign Existing steel supports to remain	
	29-5-38a	STH 29 WB	80.52	E3-1	Supplemental Guide Sign	180	84	Seymour Cray Sr Blvd EXIT 79		1			105				Install new sign on existing steel supports (Type B beams and bases)	
	29-5-39R	STH 29 WB	80.37					HOSPITAL EXIT 79						1			Remove existing sign Existing steel supports to remain	
	29-5-40	STH 29 WB	80.37	E10-61	Hospital Exit _	144 in	54 in	HOSPITAL EXIT 79		1			54				Install new sign on existing steel supports (Type A Bases and Supports)	
	29-5-41R	STH 29 WB	80.22					Chippewa Falls Downtown Tourist Information EXIT 79						1			Remove existing sign Existing steel supports to remain	
	29-5-42	STH 29 WB	80.22	E3-1	Supplemental Guide Sign	180	114	Tourist Info Downtown Chippewa Falls EXIT 79		1			142.5				Install new sign on existing steel supports (Type C Bases and Supports)	
	29-5-43R	STH 29 WB	80.07					EXIT 79 BUS 29 178 Chippewa Falls [TR]						1			Remove existing sign Existing steel supports to remain	
	29-5-44	STH 29 WB	80.07	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 276	30 126	EXIT 79 178 BUS 29 Chippewa Falls [TR]		1			22.5 241.5				Install new sign on existing steel supports	
	29-5-45R	STH 29 WB	78.57					53 2 90th St 6 94 18						1	2		Remove existing sign and supports	
	29-5-46	STH 29 WB	78.57	D2-3	Destination/Distance (Three)	192	96	53 2 94 18 Menomonie 26	1009.8			1.6	98	128				Install new sign 10' west of existing sign 4120' west of 50th Ave (Type B Bases and Supports)
	29-5-47R	STH 29 WB	77.59					EXITS 75 B-A 53 Eau Claire Superior 1 MILE						1			Remove existing sign. Existing steel supports to remain	
29-5-48	STH 29 WB	77.59	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	156 204	30 162	EXITS 75 B-A 53 TO 124 Eau Claire Superior 1 MILE		1			32.5 229.5			Install new sign on existing steel supports (Type C Bases and Supports)			
29-5-49R	STH 29 WB	77.31					Chippewa Falls EXIT 75B Lake Hallie EXIT 75A						1		Remove existing sign. Existing steel supports to remain			
PROJECT NO: 1000-20-76					HWY: VARIOUS			COUNTY: VARIOUS – NW REGION			MISCELLANEOUS QUANTITIES			SHEET NO: 55		E		
FILE NAME : _____					PLOT DATE : _____			PLOT BY : _____		PLOT NAME : _____		ORG DATE : _____		ORIGINATOR : DIST _		PLOT SCALE : 1:1		

3

Chippewa County STH 29 from CTH T to STH 178									635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	635.9010.S Sign Supports Shorten Structural Steel EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	NOTES
29-5-50	STH 29 WB	77.31	E3-1	Supplemental Guide Sign	180	114	Chippewa Falls EXIT 75B Lake Hallie EXIT 75A		1					142.5			Install new sign on existing steel supports (Type B Bases and Supports)
29-5-51R	STH 29 WB	77.06					TO 124 EXIT 75A								1	2	Remove existing sign and supports
29-5-52	STH 29 WB																Eliminated
29-5-53	STH 29 WB	76.59	E6-51	Advance Exit Guide Sign (Overhead)	132	102	WEST TO 29 94 AHEAD							93.5			S-9-14 I Beams incidental
29-5-54R	STH 29 WB	76.59					EXIT 75A 53 SOUTH Eau Claire 1/2 MILE								1		S-9-14 Remove existing sign and supports
29-5-55	STH 29 WB	76.59	E1-5-P E6-51	Exit Number Panel Advance Exit Guide Sign (Overhead)	120 156	30 138	EXIT 75A SOUTH TO 53 124 Eau Claire 1/2 MILE							25 149.5			S-9-14 I Beams incidental
29-5-56R	STH 29 WB	76.59					EXIT 75B 53 NORTH Superior [TR]								1		S-9-14 Remove existing sign Existing I Beams to remain
29-5-57	STH 29 WB	76.59	E1-5-P E6-1	Exit Number Panel Exit Direction Sign (Overhead)	120 180	30 84	EXIT 75B 53 NORTH Superior [TR]							25 105			S-9-14 Reuse existing I beams
29-5-58R	STH 29 WB	76.02					WEST TO 29 94 [DA] [DA]								1		S-9-12 Remove existing sign Existing I Beams to remain
29-5-59	STH 29 WB	76.02	E6-51	Advance Exit Guide Sign (Overhead)	204	114	WEST TO 29 94 [DA] [DA]							161.5			S-9-12 Reuse existing I beams
29-5-60R	STH 29 WB	76.02					EXIT 75A 53 SOUTH Eau Claire EXIT [DA] ONLY								1		S-9-12 Remove existing sign Existing I Beams to remain
29-5-61	STH 29 WB	76.02	E1-5-P E6-51	Exit Number Panel Advance Exit Guide Sign (Overhead)	120 168	30 144	EXIT 75A SOUTH TO 53 124 Eau Claire EXIT [DA] ONLY							25 168			S-9-12 Reuse existing I beams
29-5-62R	STH 29 WB	75.76					EXIT 75A 53 SOUTH Eau Claire EXIT [TR] ONLY								1		S-9-11 Remove existing sign Existing I Beams to remain
29-5-63	STH 29 WB	75.76	E1-5-P E6-1	Exit Number Panel Exit Direction Sign (Overhead)	120 168	30 144	EXIT 75A SOUTH TO 53 124 Eau Claire EXIT [TR] ONLY							25 168			S-9-11 Reuse existing I beams
29-5-64R	STH 29 WB	74.76					90th St/Bus 29 2 94 14 Menomonie 21								1	2	Remove existing sign and supports
29-5-65	STH 29 WB	74.76	D2-3	Destination/Distance (Three)	192	84	90th St 2 94 14 Menomonie 21	977.8				1.6	98	112			Install new sign 10' west of existing sign (3750' west of 120th St) Type B bases and supports
29-5-66R	STH 29 WB	73.52					EXIT 72 Bus 29 90th St 3/4 MILE								1		Remove existing sign Existing steel supports to remain
29-5-67	STH 29 WB	73.52	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 156	30 78	EXIT 72 90th St 3/4 MILE				2			22.5 84.5			Install new sign on existing steel supports Shorten steel sign supports Type A bases and supports
PROJECT NO: 1000-20-76				HWY: VARIOUS			COUNTY: VARIOUS – NW REGION				MISCELLANEOUS QUANTITIES				SHEET NO: 56		E

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Chippewa County STH 29 from CTH T to STH 178									635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	635.9010.S Sign Supports Shorten Structural Steel EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES										NOTES
29-5-68R	STH 29 WB	73.05					Chippewa Falls EXIT 72								1	2	Remove existing sign and supports
29-5-69R	STH 29 WB	72.74					Bus 29 90th St [TR] EXIT 72								1		Remove existing sign Existing steel supports to remain
29-5-70	STH 29 WB	72.74	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 192	30 48	EXIT 72 90th St [TR]			2			22.5 64				Install new sign on existing steel supports Shorten steel sign supports Type A bases and supports
29-5-71R	STH 29 WB	70.91					T Eau Claire 1 MILE EXIT 69								1		Remove existing sign Existing steel supports to remain
29-5-72	STH 29 WB	70.91	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 204	30 120	T Eau Claire 1 MILE EXIT 69		1				22.5 170				Install new sign on existing steel supports (Type B Bases and Supports)
29-5-73R	STH 29 WB	69.81					T Eau Claire [TR] EXIT 69								1		Remove existing sign Existing steel supports to remain
29-5-74	STH 29 WB	69.81	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 240	30 90	T Eau Claire [TR] EXIT 69		1				22.5 150				Install new sign on existing steel supports (Type B Bases and Supports)
29-5-75R	STH 29 WB	67.83					12 40 7 94 8 Menomonie 15								1		Remove existing sign Existing steel supports to remain
29-5-76	STH 29 WB	67.83	D2-3	Destination/Distance (Three)	192	96	12 40 7 94 8 Menomonie 15		1				128				Install new sign on existing steel supports (Type B Bases and Supports)

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SEGMENT SUBTOTALS									1987.6	21	6	3.2	196	6245	39	12	
St Croix County STH 35 from CTH U to Hanley Rd									635.0300 Sign Supports Replacing Base Connection Bolts EACH	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH					
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES					NOTES					
35-1-1R	STH 35 NB	CTH U Interchange					Husdon 8 St Paul 25			1	2	Remove existing sign and supports					
35-1-2R	STH 35 NB	Hanley Rd Interchange					Hanley Rd EXIT 3/4 MILE			1		Remove existing sign Existing steel supports to remain					
35-1-3	STH 35 NB	Hanley Rd Interchange	E1-51		192	78	Hanley Rd EXIT 3/4 MILE	1	104			Install new sign on existing supports Type A bases and supports					
35-1-4R	STH 35 NB	Hanley Rd Interchange					Hanley Rd [TR]			1		Remove existing sign Existing steel supports to remain					
35-1-5	STH 35 NB	Hanley Rd Interchange	E4-1-A	Exit Direction Sign with Arrow	228	48	Hanley Rd [TR]	1	76			Install new sign on existing supports Type A bases and supports					
35-1-6R	STH 35 SB	Hanley Rd Interchange					River Falls 5 Prescott 20			1		Remove existing sign Existing steel supports to remain					
35-1-7	STH 35 SB	Hanley Rd Interchange	D2-2	Destination/Distance (Two)	180	60	River Falls 5 Prescott 20	1	75			Install new sign on existing supports Type A bases and supports					
SEGMENT SUBTOTALS									3	255	4	2					

PROJECT NO: 1000-20-76	HWY: VARIOUS	COUNTY: VARIOUS – NW REGION	MISCELLANEOUS QUANTITIES	SHEET NO: 57	E
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Chippewa County USH 53 from STH 29 to CTH M								635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH		
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES								NOTES	
53-1-1R	USH 53 NB	96.51					EXIT 96 X BUS 29 Chippewa Falls 3/4 MILE						1		Remove existing sign Existing steel support to remain	
53-1-2	USH 53 NB	96.51	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 276	30 126	EXIT 96 X BUS 29 Chippewa Falls 3/4 MILE		1			22.5 241.5			Install new sign on existing steel supports (Type C bases and supports)	
53-1-3R	USH 53 NB	96.69					Tourist Info EXIT 96						1	2	Remove existing sign and supports	
53-1-4	USH 53 NB	96.69	E3-1	Supplemental Guide Sign	180	114	Tourist Information Downtown Chippewa Falls EXIT 96	1053.8		1.6	98	142.5			Install new sign 10' north of existing sign (1.79 miles north of STH 29) (Type B bases and supports)	
53-1-5R	USH 53 NB	96.87					Chippewa Falls Downtown EXIT 96						1	2	Remove existing sign and supports	
53-1-6R	USH 53 NB	97.26					EXIT 96 X BUS 29 Chippewa Falls [TR]						1		Remove existing sign Existing steel supports to remain	
53-1-7	USH 53 NB	97.26	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 300	30 96	EXIT 96 X BUS 29 Chippewa Falls [TR]		1			22.5 200			Install new sign on existing steel supports (Type C bases and supports)	
53-1-8R	USH 53 NB	101.19					Bloomer 10 Rice Lake 39 Superior 133						1		Remove existing sign Existing steel supports to remain	
53-1-9	USH 53 NB	101.19	D2-3	Destination/Distance (Three)	180	84	Bloomer 10 Rice Lake 39 Superior 133		1			105			Install new sign on existing steel supports (Type B bases and supports)	
53-1-10R	USH 53 NB	109.12					EXIT 110 40 Bloomer Colfax 1 MILE						1		Remove existing sign Existing steel supports to remain	
53-1-11	USH 53 NB	109.12	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 156	30 162	EXIT 110 40 Bloomer Colfax 1 MILE		1			22.5 175.5			Install new sign on existing steel supports (Type B bases and supports)	
53-1-12R	USH 53 NB	114.15					New Auburn 5 Rice Lake 26 Superior 120						1		Remove existing sign Existing steel supports to remain	
53-1-13	USH 53 NB	114.15	D2-3	Destination/Distance (Three)	192	84	New Auburn 5 Rice Lake 26 Superior 120		1			112			Install new sign on existing steel supports (Type B bases and supports)	
53-1-14R	USH 53 SB	107.76					Bloomer 7 Chippewa Falls 21 Eau Claire 31						1		Remove existing sign Existing steel supports to remain	
53-1-15	USH 53 SB	107.76	D2-3	Destination/Distance (Three)	228	84	Bloomer 7 Chippewa Falls 21 Eau Claire 31		1			133			Install new sign on existing steel supports (Type B bases and supports)	
53-1-16R	USH 53 SB	114.64					EXIT 112 64 Cornell New Richmond 1 MILE						1		Remove existing sign Existing steel supports to remain	
53-1-17	USH 53 SB	114.64	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 264	30 162	EXIT 112 64 Cornell New Richmond 1 MILE		1			22.5 297			Install new sign on existing steel supports (Type C bases and supports)	
PROJECT NO: 1000-20-76					HWY: VARIOUS			COUNTY: VARIOUS – NW REGION			MISCELLANEOUS QUANTITIES			SHEET NO: 58		E

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Chippewa County USH 53 from STH 29 to CTH M									635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES									NOTES
53-1-18R	USH 53 SB	98.51					EXIT 96 X BUS 29 Chippewa Falls 1 MILE						1			Remove existing sign Existing steel supports to remain
53-1-19	USH 53 SB	98.51	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 276	30 126	EXIT 96 X BUS 29 Chippewa Falls 1 MILE		1				22.5 241.5			Install new sign on existing steel supports (Type C bases and supports)
53-1-20R	USH 53 SB	97.88					X BUS 29 1/2 29 WEST 2 1/2 29 EAST 3 1/4						1	2		Remove existing sign and supports
53-1-21R	USH 53 SB	97.51					EXIT 96 X BUS 29 Chippewa Falls [TR]						1			Remove existing sign Existing steel supports to remain
53-1-22	USH 53 SB	97.51	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 300	30 96	EXIT 96 X BUS 29 Chippewa Falls [TR]		1				22.5 200			Install new sign on existing steel supports (Type C bases and supports)
53-1-23R	USH 53 SB	96.64					EXITS 95 A-B 29 Menomonie Green Bay 1 MILE						1			Remove existing sign Existing steel supports to remain
53-1-24	USH 53 SB	96.64	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	156 204	30 162	EXITS 95 A-B 29 Menomonie Green Bay 1 MILE		1				32.5 229.5			Install new sign on existing steel supports (Type C bases and supports)
53-1-25R	USH 53 SB	96.09					29 WEST 1/2 29 EAST 1 1/4 124 OO BUS 53 2						1			Remove existing sign Existing steel supports to remain
53-1-26	USH 53 SB	96.09	E8-1	Interchange Sequence Sign	228	96	29 WEST 1/2 29 EAST 1 1/4 124 OO BUS 53 2		1				152			Install new sign on existing steel supports (Type C bases and supports)
53-1-27	USH 53 SB	95.63	E6-51	Advance Exit Guide Sign (Overhead)	156	108	53 SOUTH Eau Claire AHEAD						117			S-9-22 I Beams incidental
53-1-28R	USH 53 SB	95.63					EXIT 95A 29 EAST Green Bay 3/4 MILE						1			S-9-22 Remove existing sign Existing I beams to remain
53-1-29	USH 53 SB	95.63	E1-5-P E6-51	Exit Number Panel Advance Exit Guide Sign (Overhead)	120 156	30 114	EXIT 95A 29 EAST Green Bay 3/4 MILE						25 123.5			S-9-22 Install new sign on existing I beams
53-1-30R	USH 53 SB	95.63					EXIT 95B 29 WEST Menomonie [TR]						1			S-9-22 Remove existing sign Existing I beams to remain
53-1-31	USH 53 SB	95.63	E1-5-P E6-1	Exit Number Panel Exit Direction Sign (Overhead)	120 204	30 84	EXIT 95B 29 WEST Menomonie [TR]						25 119			S-9-22 Install new sign on existing I beams
SEGMENT SUBTOTALS									1053.8	11	1.6	98	2806.5	16	6	
PROJECT NO: 1000-20-76				HWY: VARIOUS			COUNTY: VARIOUS – NW REGION				MISCELLANEOUS QUANTITIES			SHEET NO: 59		E

3

St Croix County STH 64 from CTH V to CTH A								635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	637.1230 Signs Type I Reflective F SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	NOTES
64-1-1R	STH 64 EB	4.00					EXIT 4 V Anderson Scout [TR] Camp Rd							1				Remove existing sign Existing steel supports to remain
64-1-2	STH 64 EB	4.00	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	84 324	30 126	EXIT 4 V Andersen Scout [TR] Camp Rd		1			17.5 283.5						Install new sign on existing steel supports (Type C bases and supports)
64-1-3R	STH 64 EB	4.17					Somerset Exits Bus 64 VV 1 35 North C 5							1				Remove existing sign Existing steel supports to remain
64-1-4	STH 64 EB	4.17	E8-1A	Community Interchanges Identification Sign	192	108	Somerset Exits VV Bus 64 1 35 North C 5		1			144						Install new sign on existing steel supports (Type C bases and supports)
64-1-5R	STH 64 EB	4.84					EXIT 6 BUS 64 VV Somerset 1/2 MILE							1				Remove existing sign Existing steel supports to remain
64-1-6	STH 64 EB	4.84	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	84 192	30 126	EXIT 6 VV BUS 64 Somerset 1/2 MILE		1			17.5 168						Install new sign on existing steel supports (Type C bases and supports)
64-1-7R	STH 64 EB	5.12					Apple River Float-Rite Amphitheatre NEXT RIGHT							1				Remove existing sign Existing steel supports to remain
64-1-8	STH 64 EB	5.12	E3-1	Supplemental Guide Sign	168	108	Apple River Float-Rite Amphitheatre EXIT 6		1			126						Install new sign on existing steel supports (Type C bases and supports)
64-1-9R	STH 64 EB	5.34					EXIT 6 BUS 64 VV Somerset [TR]							1				Remove existing sign Existing steel supports to remain
64-1-10	STH 64 EB	5.34	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	84 228	30 96	EXIT 6 VV BUS 64 Somerset [TR]		1			17.5 152						Install new sign on existing steel supports (Type C bases and supports)
64-1-11R	STH 64 EB	6.47	D2-1				New Richmond 6							1			2	Remove existing sign and supports
64-1-12R	STH 64 EB	7.26					EXIT 9 35 NORTH C Somerset Osceola EXIT 1 MILE							1				Remove existing sign Existing steel supports to remain
64-1-13	STH 64 EB	7.26	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	84 216	30 162	EXIT 9 35 NORTH C Somerset Osceola 1 MILE		1			17.5 243						Install new sign on existing steel supports (Type C bases and supports)
64-1-14R	STH 64 EB	8.93					Cedar Lake Speedway NEXT EXIT							1				Remove existing sign Existing steel supports to remain
64-1-15	STH 64 EB	8.93	E3-1	Supplemental Guide Sign	144	84	Cedar Lake Speedway EXIT 9		1			84						Install new sign on existing steel supports (Type A bases and supports)
64-1-16R	STH 64 EB	9.24					EXIT 9 35 NORTH C Somerset [TR] Osceola							1				Remove existing sign Existing steel supports to remain
64-1-17	STH 64 EB	9.24	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	84 240	30 132	EXIT 9 35 NORTH C Somerset [TR] Osceola		1			17.5 220						Install new sign on existing steel supports (Type B bases and supports)
64-1-18R	STH 64 EB	10.33					New Richmond 2							1				Remove existing sign Existing steel supports to remain
64-1-19	STH 64 EB	10.33	D2-1	Destination/Distance (One)	216	36	New Richmond 2		1			54						Install new sign on existing steel supports (Type B bases and supports)
PROJECT NO: 1000-20-76					HWY: VARIOUS				COUNTY: VARIOUS – NW REGION			MISCELLANEOUS QUANTITIES				SHEET NO: 60		E

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St Croix County STH 64 from CTH V to CTH A								635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	637.1230 Signs Type I Reflective F SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	NOTES	
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES												
64-1-20R	STH 64 EB	11.80					New Richmond NEXT 4 EXITS							1				Remove existing sign Existing steel supports to remain	
64-1-21	STH 64 EB	11.80	E9-1	(Area) NEXT _ EXITS	180	54	New Richmond NEXT 4 EXITS		1			67.5						Install new sign on existing steel supports (Type B bases and supports)	
64-1-22R	STH 64 EB	12.01					EXIT 12 BUS 64 A New Richmond EXIT 1/2 MILE							1				Remove existing sign Existing steel supports to remain	
64-1-23	STH 64 EB	12.01	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	96 264	30 126	EXIT 12 A BUS 64 New Richmond 1/2 MILE		1			20 231						Install new sign on existing steel supports (Type B bases and supports)	
64-1-24	STH 64 EB	12.30					HOSPITAL NEXT RIGHT								1	3		Remove existing sign and posts	
64-1-25	STH 64 EB	12.30	E10-61	HOSPITAL EXIT _	144	54	HOSPITAL EXIT 12	593.6		1.2	68	54						Install new sign 10' west of existing sign (2850' west of 100th St) (Type A bases and supports)	
64-1-26R	STH 64 EB	12.44					EXIT 12 BUS 64 A New Richmond [TR]							1				Remove existing sign Existing steel supports to remain	
64-1-27	STH 64 EB	12.44	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	96 300	30 96	EXIT 12 A BUS 64 New Richmond [TR]		1			20 200						Install new sign on existing steel supports (Type B bases and supports)	
64-1-28R	STH 64 EB	12.45					[D9-2] [TR]								1	1		Remove existing sign and post	
64-1-29R	STH 64 EB	13.68					FREEWAY ENDS 1/2 MILE							1				Remove existing sign Existing steel supports to remain	
64-1-30	STH 64 EB	13.68	W19-1	FREEWAY ENDS _ MILE	180	102	FREEWAY ENDS 1/2 MILE		1				127.5					Install new sign on existing steel supports (Type B bases and supports)	
64-1-31R	STH 64 EB	13.68					FREEWAY ENDS 1/2 MILE							1				Remove existing sign Existing steel supports to remain	
64-1-32	STH 64 EB	13.68	W19-1	FREEWAY ENDS _ MILE	180	102	FREEWAY ENDS 1/2 MILE		1				127.5					Install new sign on existing steel supports (Type B bases and supports)	
64-1-33R	STH 64 WB	14.05					EXIT 12 A New Richmond EXIT 1 MILE							1				Remove existing sign Existing steel supports to remain	
64-1-34	STH 64 WB	14.05	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	96 264	30 120	EXIT 12 A New Richmond 1 MILE		1			20 220						Install new sign on existing steel supports (Type C bases and supports)	
64-1-35R	STH 64 WB	13.15					EXIT 12 A New Richmond [TR]							1				Remove existing sign Existing steel supports to remain	
64-1-36	STH 64 WB	13.15	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	96 300	30 90	EXIT 12 A New Richmond [TR]		1			20 187.5						Install new sign on existing steel supports (Type C bases and supports)	
64-1-37R	STH 64 WB	12.07					Somerset 2 Stillwater 14								1	2		Remove existing sign and posts	
64-1-38	STH 64 WB	12.07	D2-2	Destination/Distance (Two)	180	60	Somerset 3 Stillwater 13	614.6		1.2	68	75						Install new sign 100' west of existing sign 3960' west of CTH A (Type A bases and supports)	
64-1-39R	STH 64 WB	10.69					Somerset Exits NORTH BUS C 35 64 1 VV 4 1/2							1				Remove existing sign Existing steel supports to remain	
64-1-40	STH 64 WB	10.69	E8-1-A	Community Interchanges Identification Sign	144	54	Somerset NEXT 2 EXITS		1			54						Install new sign on existing steel supports (Type B bases and supports)	
PROJECT NO: 1000-20-76					HWY: VARIOUS				COUNTY: VARIOUS – NW REGION				MISCELLANEOUS QUANTITIES				SHEET NO: 61		E

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St Croix County STH 64 from CTH V to CTH A									635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	637.1230 Signs Type I Reflective F SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	NOTES
64-1-41R	STH 64 WB	10.54						EXIT 9 NORTH BUS 35 64 C Somerset Osceola EXIT 3/4 MILE							1				Remove existing sign Existing steel supports to remain
64-1-42	STH 64 WB	10.54	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	84 228	30 192		EXIT 9 NORTH BUS 35 C 64 Somerset Osceola 3/4 MILE		1			17.5 304						Install new sign on existing steel supports (Type B bases and supports)
64-1-43R	STH 64 WB	10.38						SOUTH 35 AHEAD							1				Remove existing sign Existing steel supports to remain
64-1-44	STH 64 WB	10.38	E3-1	Supplemental Guide Sign	156	84		SOUTH 35 AHEAD		1			91						Install new sign on existing steel supports (Type A bases and supports)
64-1-45R	STH 64 WB	10.07						Cedar Lake Speedway NEXT EXIT							1				Remove existing sign Existing steel supports to remain
64-1-46	STH 64 WB	10.07	E3-1	Supplemental Guide Sign	144	84		Cedar Lake Speedway EXIT 9		1			84						Install new sign on existing steel supports (Type B bases and supports)
64-1-47R	STH 64 WB	9.77						EXIT 9 NORTH BUS 35 64 C Somerset [TR] Osceola							1				Remove existing sign Existing steel supports to remain
64-1-48	STH 64 WB	9.77	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	84 264	30 156		EXIT 9 NORTH BUS 35 C 64 Somerset [TR] Osceola		1			17.5 286						Install new sign on existing steel supports (Type B bases and supports)
64-1-49R	STH 64 WB	8.54						Stillwater 10 Hudson 17							1				Remove existing sign Existing steel supports to remain
64-1-50	STH 64 WB	8.54	D2-2	Destination/Distance (Two)	180	60		Stillwater 10 Hudson 17		1			75						Install new sign on existing steel supports (Type A bases and supports)
64-1-51R	STH 64 WB	7.09						EXIT 6 VV Somerset EXIT 1 MILE							1				Remove existing sign Existing steel supports to remain
64-1-52	STH 64 WB	7.09	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	84 180	30 120		EXIT 6 VV Somerset 1 MILE		1			17.5 150						Install new sign on existing steel supports (Type B bases and supports)
64-1-53R	STH 64 WB	6.24						Apple River Float-Rite Amphitheatre NEXT RIGHT							1				Remove existing sign Existing steel supports to remain
64-1-54	STH 64 WB	6.24	E3-1	Supplemental Guide Sign	168	108		Apple River Float-Rite Amphitheatre EXIT 6		1			126						Install new sign on existing steel supports (Type B bases and supports)
64-1-55R	STH 64 WB	6.08						EXIT 6 VV Somerset [TR]							1				Remove existing sign Existing steel supports to remain
64-1-56	STH 64 WB	6.08	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	84 216	30 84		EXIT 6 VV Somerset [TR]		1			17.5 126						Install new sign on existing steel supports (Type B bases and supports)
64-1-57R	STH 64 WB	5.49						Stillwater 7 Hudson 14							1			2	Remove existing sign and supports
64-1-58R	STH 64 WB	5.06						EXIT 4 V Andersen Scout Camp Road EXIT 1/2 MILE							1				Remove existing sign Existing steel supports to remain
64-1-59	STH 64 WB	5.06	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	84 228	30 138		EXIT 4 V Andersen Scout Camp Road 1/2 MILE		1			17.5 218.5						Install new sign on existing steel supports (Type C bases and supports)

3

3

St Croix County STH 64 from CTH V to CTH A									635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	637.1220 Signs Type I Reflective SH SF	637.1230 Signs Type I Reflective F SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES												NOTES
64-1-60R	STH 64 WB	4.59					EXIT 4 V Anderson Scout [TR] Camp Road							1					Remove existing sign Existing steel supports to remain
64-1-61	STH 64 WB	4.59	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	84 324	30 126	EXIT 4 V Andersen Scout [TR] Camp Road		1				17.5 283.5						Install new sign on existing steel supports (Type C bases and supports)
SEGMENT SUBTOTALS									1208.2	27	2.4	136	4580	255	29	3	6	4	

3

3

Eau Claire and Dunn Counties IH 94 from STH 37 to STH 25								635.0300 Sign Supports Replacing Base Connection Bolts EACH	637.1220 Signs Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	NOTES		
SIGN NUMBER	ROUTE	MARKER	CODE	DESCRIPTION	WIDTH	HEIGHT	ORDER LINES							
94-2-1R	IH 94 EB	39.82					Historic Downtown Menomonie EXIT 41			1		Remove existing sign Existing steel supports to remain		
94-2-2	IH 94 EB	39.82	E3-1	Supplemental Guide Sign	216	84	Historic Downtown Menomonie EXIT 41	1	126			Install new sign on existing steel supports (Type C bases and supports)		
94-2-3R	IH 94 WB	63.89					Menomonie 24 Hudson 63 St Paul 79			1		Remove existing sign Existing steel supports to remain		
94-2-4	IH 94 WB	63.89	D2-3	Destination/Distance (Three)	192	84	Menomonie 24 Hudson 63 St Paul 79	1	112			Install new sign on existing steel supports (Type C bases and supports)		
94-2-5R	IH 94 WB	60.66					EXIT 59 12 312 EE Elk Mound Chippewa Falls 1 MILE			1		Remove existing sign Existing steel supports to remain		
94-2-6	IH 94 WB	60.66	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	108 276	30 162	EXIT 59 12 312 EE Elk Mound Chippewa Falls 1 MILE	1	22.5 310.5			Install new sign on existing steel supports (Type C bases and supports)		
94-2-7R	IH 94 WB	59.56					EXIT 59 12 312 EE Elk Mound [TR] Chippewa Falls			1		Remove existing sign Existing steel supports to remain		
94-2-8	IH 94 WB	59.56	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	108 300	30 132	EXIT 59 12 312 EE Elk Mound [TR] Chippewa Falls	1	22.5 275			Install new sign on existing steel supports (Type C bases and supports)		
94-2-9R	IH 94 WB	43.83					REST AREA 1/4 MILE			1	2	Remove existing sign and supports		
94-2-10R	IH 94 WB	43.28					EXIT 41 25 Meonomonie Barron 1 MILE NEXT EXIT 9 MILES			1		Remove existing sign Existing steel supports to remain		
94-2-11	IH 94 WB	43.28	E1-5-P E1-1-A	Exit Number Panel Advance Exit Guide Sign	96 204	30 162	EXIT 41 25 Meonomonie Barron 1 MILE	1	20 229.5			Install new sign on existing steel supports (Type C bases and supports)		
			E2-1	NEXT EXIT _ MILES	156	24	NEXT EXIT 9 MILES		26					
94-2-12R	IH 94 WB	42.65					Red Cedar State Trail EXIT 41			1		Remove existing sign Existing steel supports to remain		
94-2-13	IH 94 WB	42.65	E3-1	Supplemental Guide Sign	144	84	Red Cedar State Trail EXIT 41	1	84			Install new sign on existing steel supports (Type A bases and supports)		
94-2-16R	IH 94 WB	42.25					EXIT 41 25 Meonomonie [TR] Barron			1		Remove existing sign Existing steel supports to remain		
94-2-17	IH 94 WB	42.25	E1-5-P E4-1A	Exit Number Panel Exit Direction Sign with Arrow	96 240	30 132	EXIT 41 25 Meonomonie [TR] Barron	1	20 220			Install new sign on existing steel supports (Type B bases and supports)		
SEGMENT SUBTOTALS								7	1468	8	2			
PROJECT NO: 1000-20-76					HWY: VARIOUS			COUNTY: VARIOUS – NW REGION			MISCELLANEOUS QUANTITIES		SHEET NO: 64	E

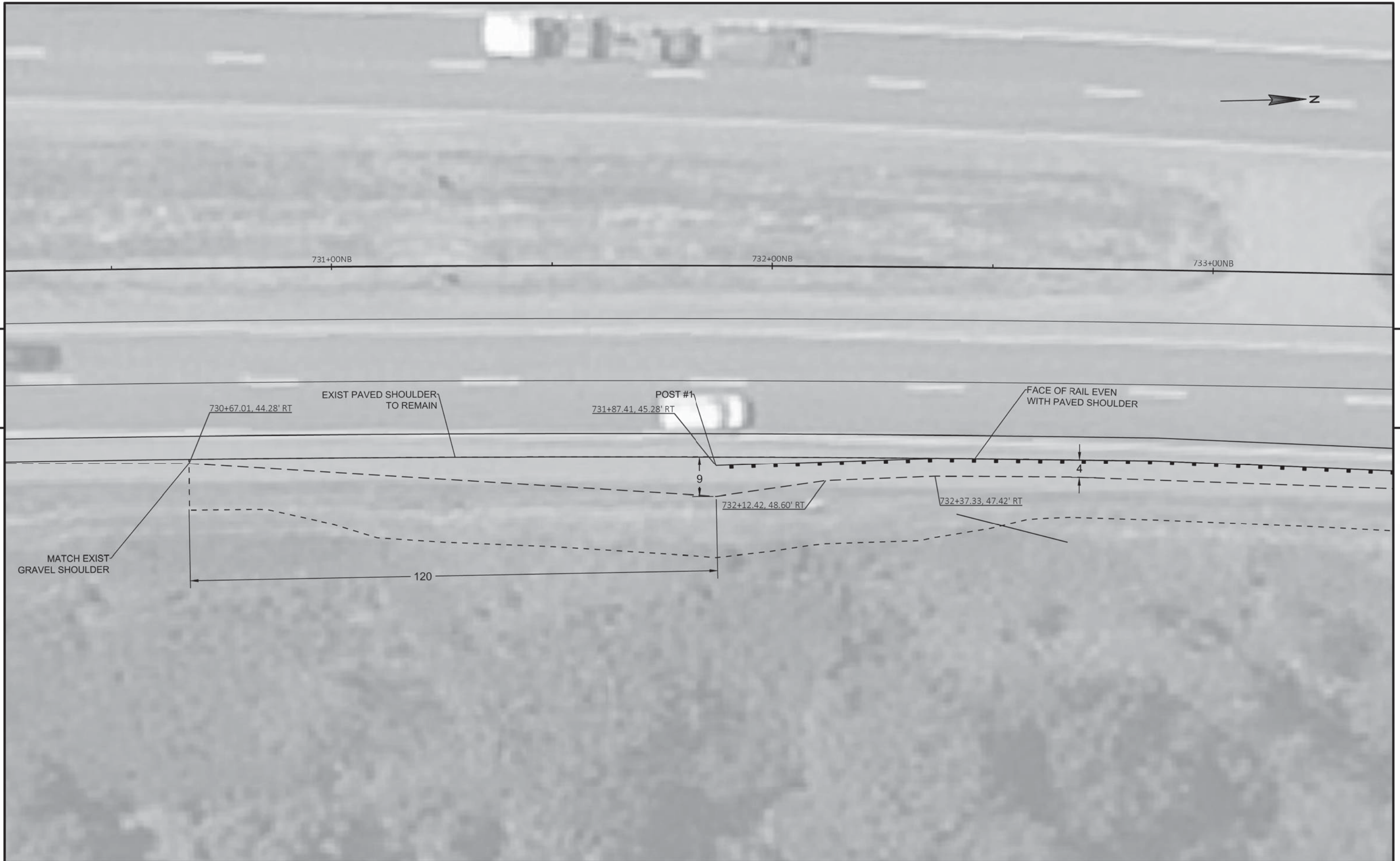
3

3

REGION	204.0195 Removing Concrete Bases EACH	634.0612 Posts Wood 4 x 6 - Inch 12 Foot EACH	634.0614 Posts Wood 4 x 6 - Inch 14 Foot EACH	634.0616 Posts Wood 4 x 6 - Inch 16 Foot EACH	634.0618 Posts Wood 4 x 6 - Inch 18 Foot EACH	634.062 Posts Wood 4 x 6 - Inch 20 Foot EACH	635.0200 Sign Supports Structural Steel HS LBS	635.0300 Sign Supports Replacing Base Connection Bolts EACH	635.9010.S Sign Supports Shorten Structural Steel EACH	636.0100 Sign Supports Concrete Masonry CY	636.0500 Sign Supports Steel Reinforcement LBS	636.1500 Sign Supports Steel Coated Reinforcement H LBS	637.1220 Signs Type I Reflective SH SF	637.1230 Signs Type I Reflective F SF
SW Region	0	31	36	6	11	0	6908.8	8	0	10.8	656	0	2255	340
SE Region	0	0	0	0	0	0	3076	11	12	6	340	0	2952	0
NE Region	0	0	0	0	16	0	11611.4	43	0	21.2	1216	0	8885	340
NC Region	0	0	35	0	0	0	11742.6	34	0	29.2	1216	990	8686	0
NW Region	0	0	0	0	0	0	4249.6	71	6	7.2	430	0	15354.5	385
TOTALS	0	31	71	6	27	0	37588.4	167	18	74.4	3858	990	38132.5	1065

3

REGION	637.2210 Signs Type II Reflective H SF	637.2230 Signs Type II Reflective F SF	638.2101 Moving Signs Type I EACH	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	638.3210 Revising Signs Type I Demountable EACH	641.1200 Sign Bridge Cantilevered S-37-159 LS	SPV.0165.01 Modifying Signs Type I SF
SW Region	190	420.75	2	20	82	66	16	0	0	24
SE Region	0	0	0	22	0	0	12	0	0	0
NE Region	233.76	0	0	50	13	24	6	5	0	0
NC Region	0	506.5	0	40	31	12	10	0	1	0
NW Region	0	0	0	98	3	6	26	0	0	0
TOTALS	423.76	927.25	2	230	129	108	70	5	1	24



5

5

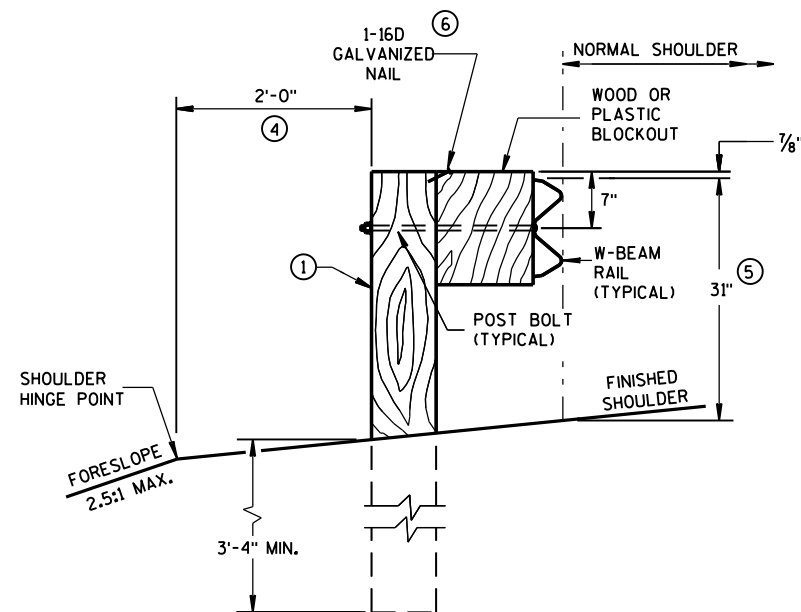
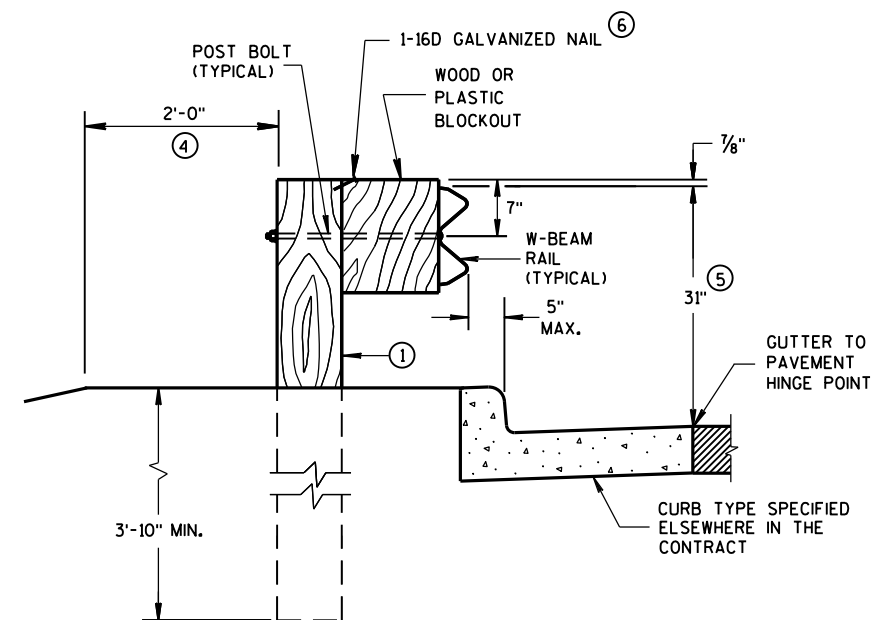
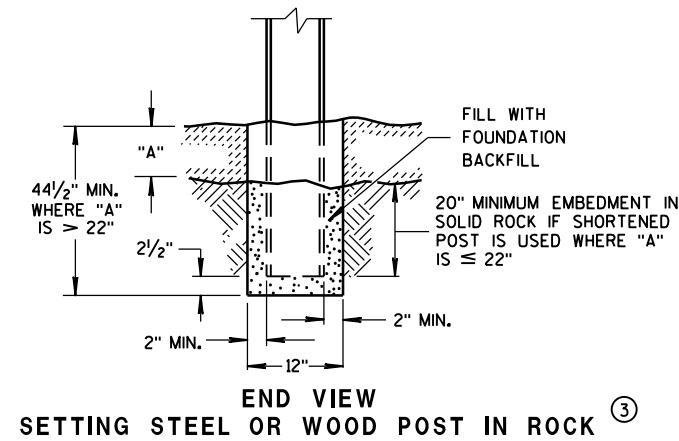


PROJECT NO: 1000-20-76	HWY: USH 51	COUNTY: MARATHON	VFG - USH51 - (1)	SHEET 68	E
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Standard Detail Drawing List

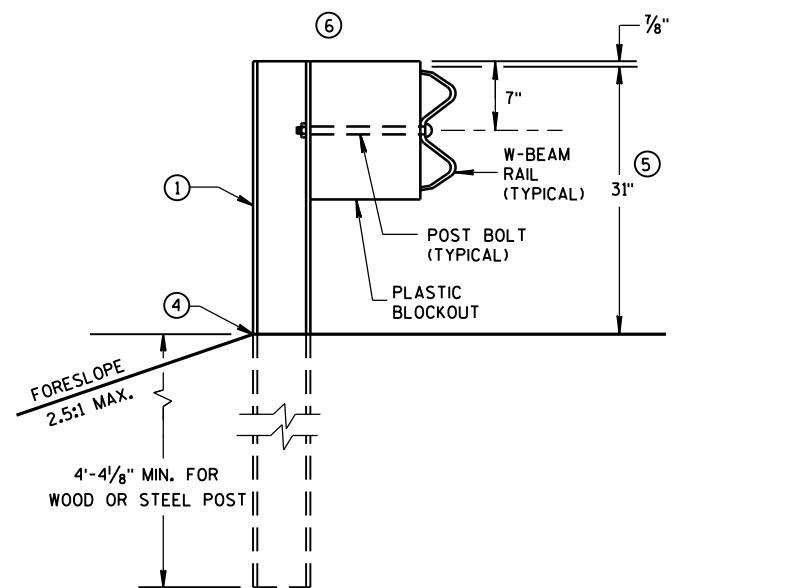
14B42-05A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-03A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B47-02A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D15-04A	TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-04B	TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-04C	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-04D	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-04E	TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE
15D16-03	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-05	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

- ① WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- ③ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS TO LENGTH AND INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- ④ WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- ⑤ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".
- ⑥ WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

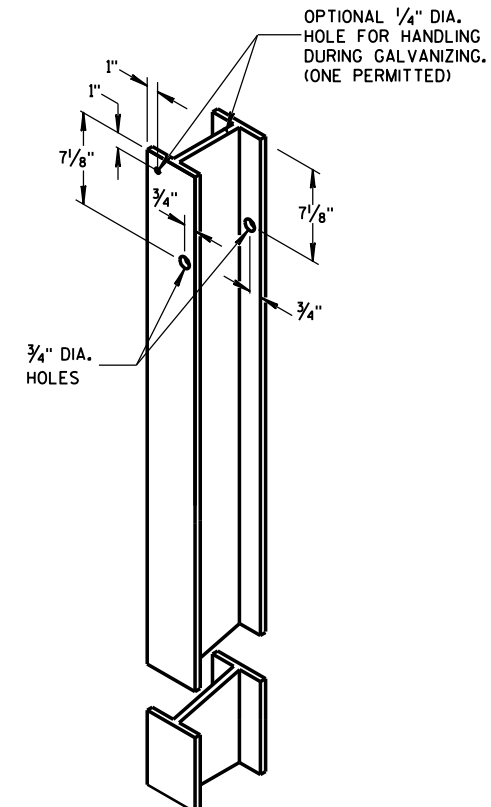


END VIEW

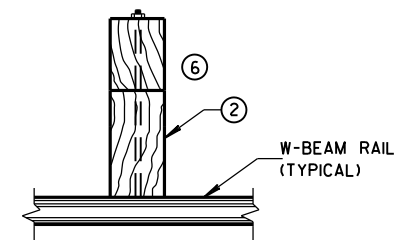
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



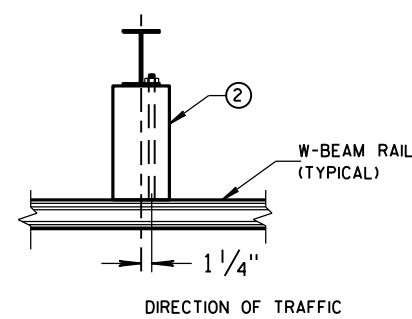
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



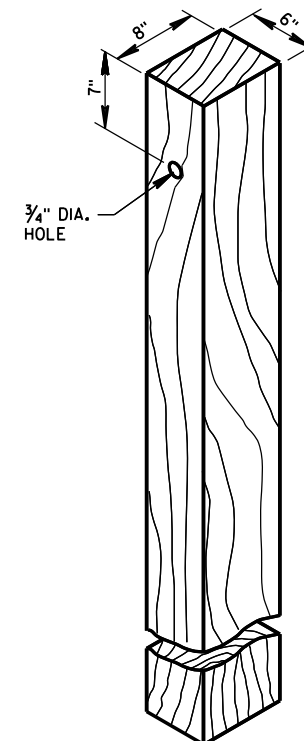
**STEEL POST &
HOLE PUNCHING DETAIL
(w6X9)^①**



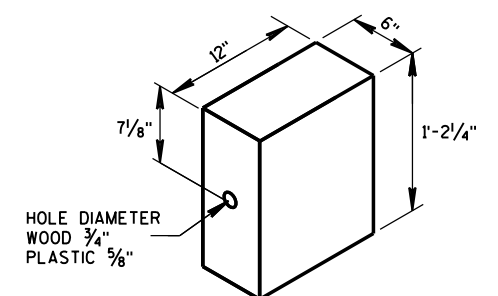
**PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM**



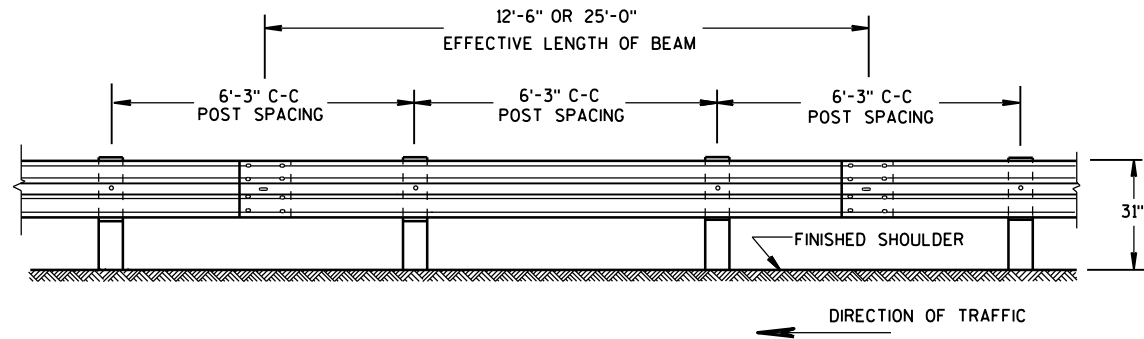
PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST
(6" X 8") NOMINAL ^①

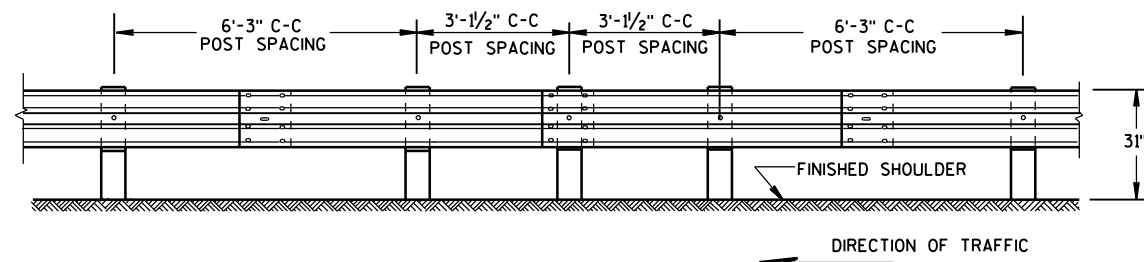


**WOOD OR
PLASTIC BLOCKOUT** ⁽²⁾



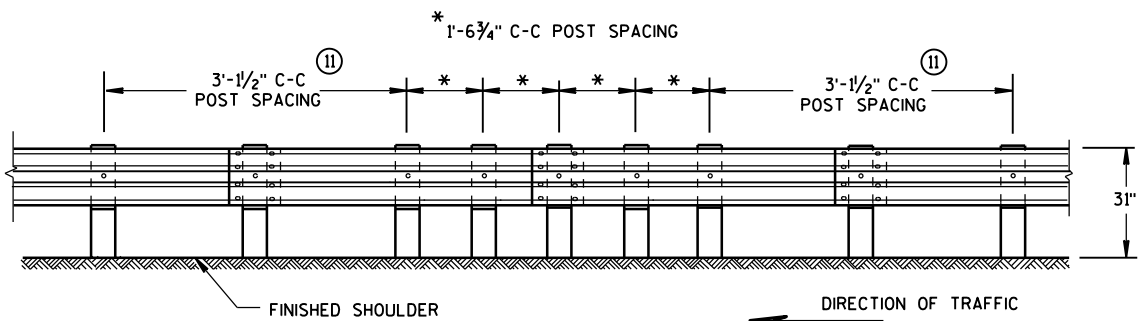
FRONT VIEW

POST SPACING STANDARD INSTALLATION



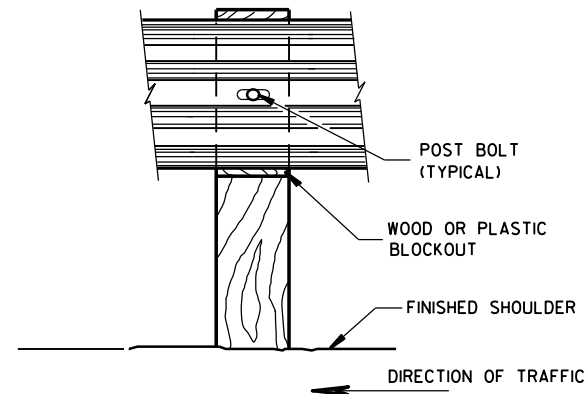
FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

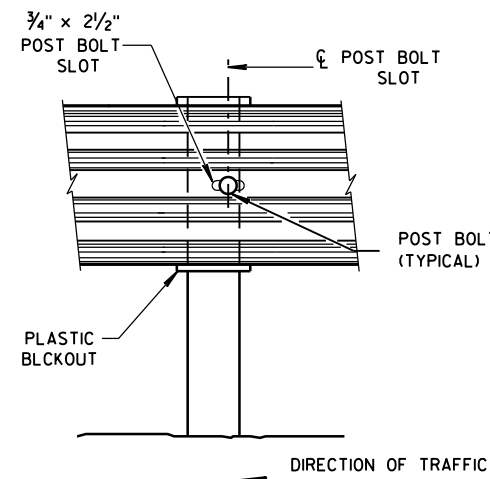


FRONT VIEW

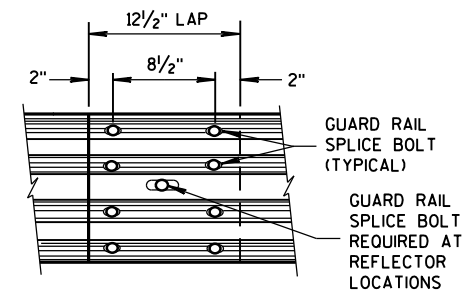
QUARTER POST SPACING (QS)



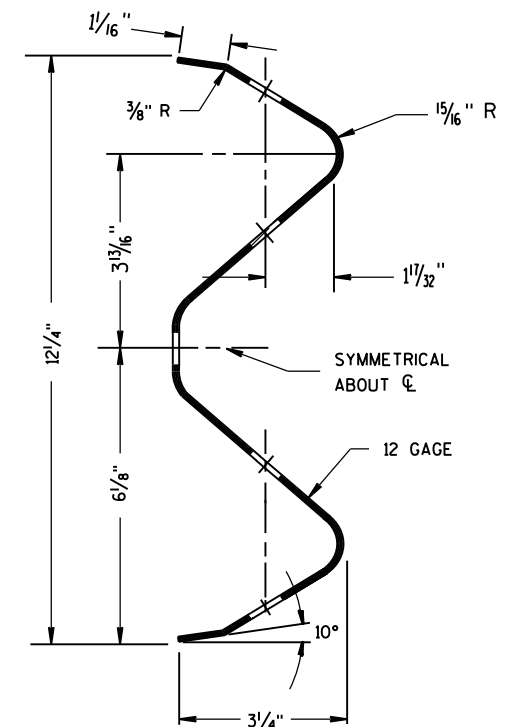
FRONT VIEW AT WOOD POST



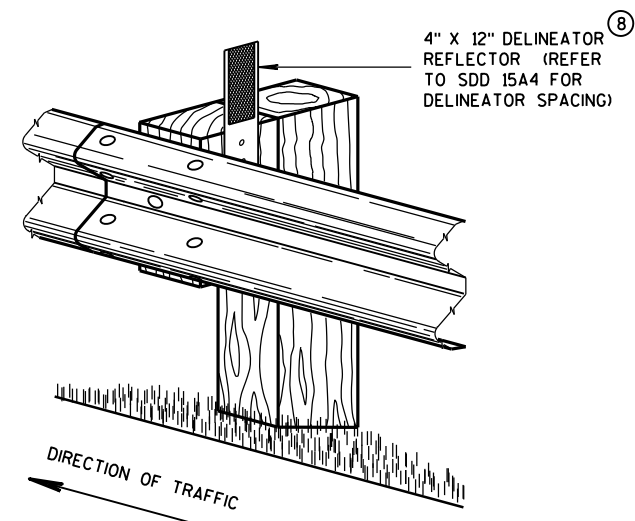
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE



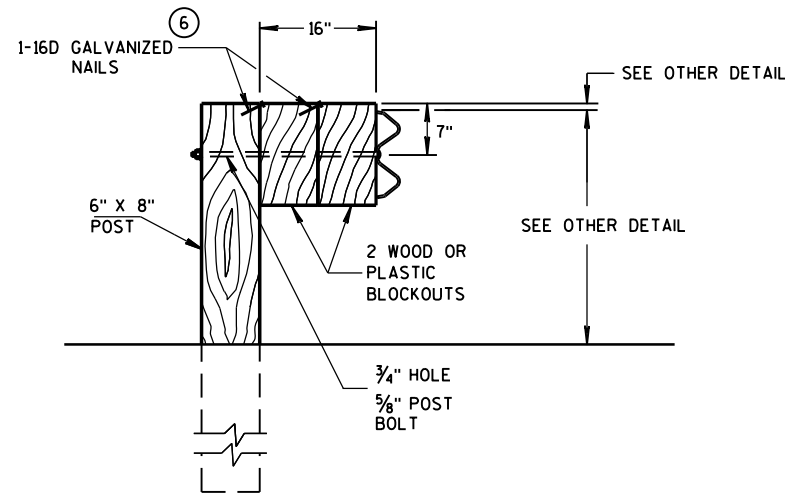
SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

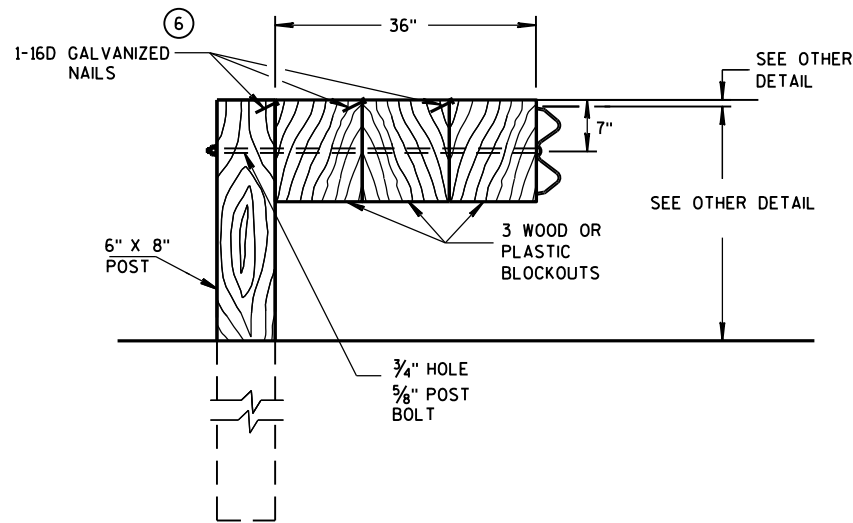
GENERAL NOTES

- ⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.
 - ⑪ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.
- POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.
- GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



DETAIL FOR 16" BLOCKOUT DEPTH

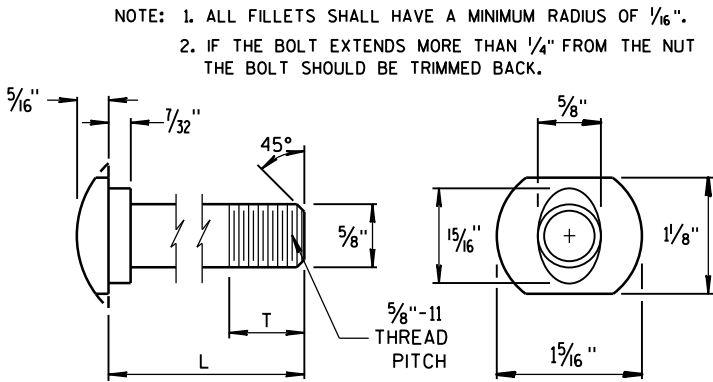
IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



DETAIL FOR 36" BLOCKOUT DEPTH

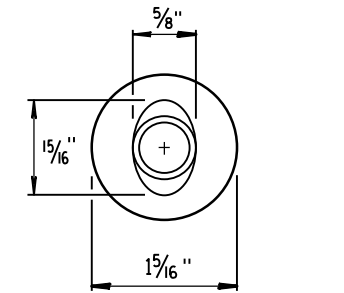
NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" 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.

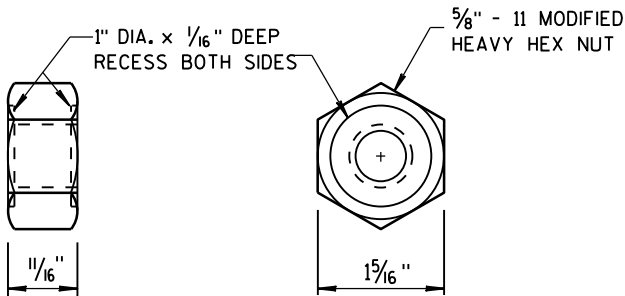


POST BOLT TABLE

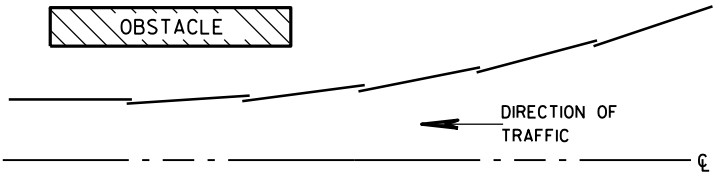
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



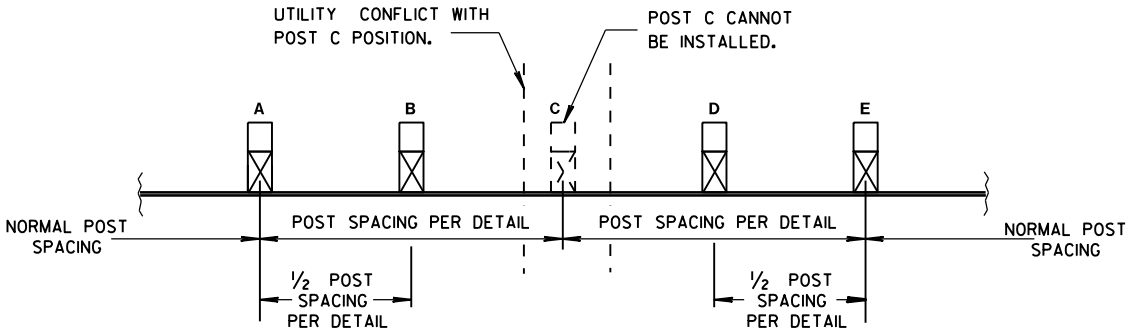
ALTERNATE BOLT HEAD



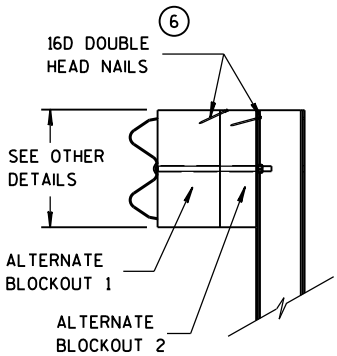
POST BOLT, SPLICE BOLT AND RECESS NUT



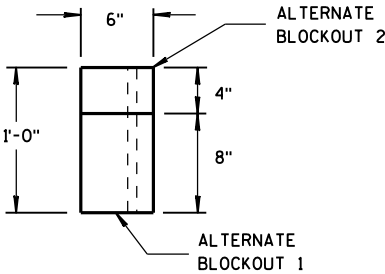
PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

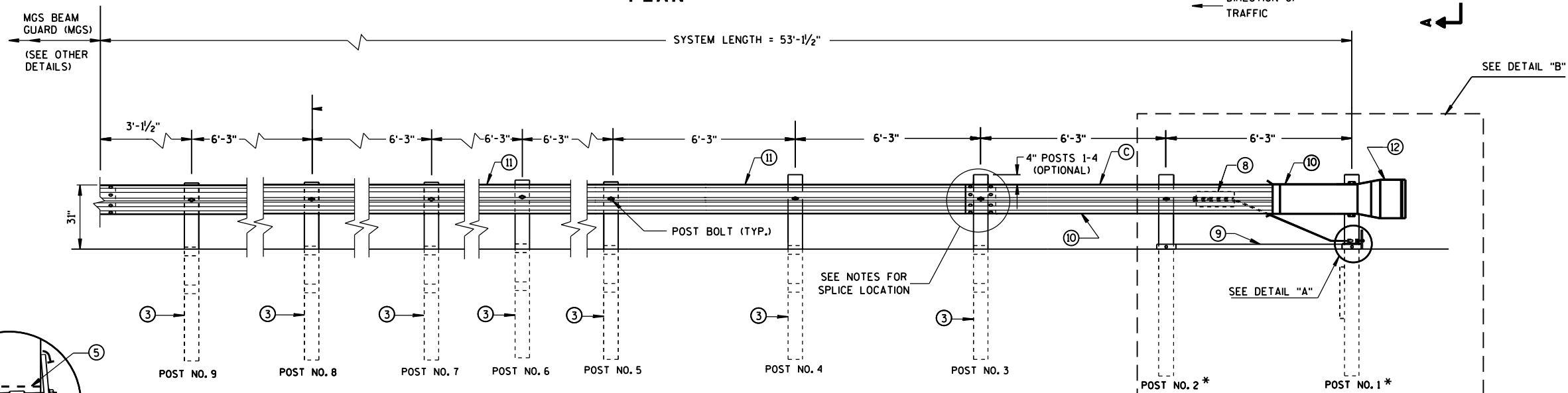
ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

- (A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.
- (C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.
- (F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.
- (H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

THE CENTER OF THE UPPER 3 1/2" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.



DETAIL "A"

Technical drawing of a bridge pier cross-section. The drawing includes the following labels and dimensions:

- Dimensions:**
 - Top width: 2'-0" TO 3'-0" VAR.
 - Top thickness: $\frac{7}{8}$ "
 - Internal vertical spacing: 7"
 - Vertical distance from top to hinge point: 31"
 - Vertical distance from hinge point to base: 1'-4"
- Components and Labels:**
 - POST BOLT (TYP.)**: Points to a bolt in the upper section.
 - HINGE POINT**: Points to a semi-circular feature at the base of the pier.
 - SLOPE 10:1 OR FLATTER**: Points to the sloped side of the pier.
 - 3 1/2" HOLES**: Points to three circular holes in the lower section.
 - TRANSITION TO 4:1 TAPER LINE**: Points to the sloped base of the pier.
- Callouts:**
 - (10) OR (11)**: Points to a horizontal line in the upper section.
 - (3)**: Points to the main body of the pier.
 - (4)**: Points to the top surface of the pier.

Diagram illustrating a post bolt connection on a sloped surface. The diagram shows a vertical post (10) passing through a sloped surface (15). A post bolt (16) is shown passing through the post and the sloped surface. The sloped surface is labeled "SLOPE 10:1 OR FLATTER". The post is labeled "POST BOLT (TYP.)". The sloped surface is labeled "SHOULDER HINGE POINT". The diagram also shows a vertical dashed line (16) extending from the post through the sloped surface.

Diagram illustrating the installation of a W5-59 EAT marker post. The post is shown with a 4'-0" height and a 1'-0" offset to the face of the rail. The post is labeled "EAT MARKER POST PLACED BEHIND POST NO. 1". The diagram shows the post installed on a shoulder with a 10:1 or flatter slope, and a 4:1 or flatter slope. The post is labeled "W5-59" and "EAT MARKER POST PLACED BEHIND POST NO. 1". The diagram also shows the "EDGE OF SHOULDER" and "2'-0\" OFFSET TO FACE OF RAIL". The post is labeled "13" and "12". The diagram shows the post installed on a shoulder with a 10:1 or flatter slope, and a 4:1 or flatter slope. The post is labeled "W5-59" and "EAT MARKER POST PLACED BEHIND POST NO. 1". The diagram also shows the "EDGE OF SHOULDER" and "2'-0\" OFFSET TO FACE OF RAIL". The post is labeled "13" and "12". The diagram shows the post installed on a shoulder with a 10:1 or flatter slope, and a 4:1 or flatter slope. The post is labeled "W5-59" and "EAT MARKER POST PLACED BEHIND POST NO. 1". The diagram also shows the "EDGE OF SHOULDER" and "2'-0\" OFFSET TO FACE OF RAIL". The post is labeled "13" and "12".

8

C

10

12

7

9

15

1

14

2

16

FINISHED GROUND ELEVATION

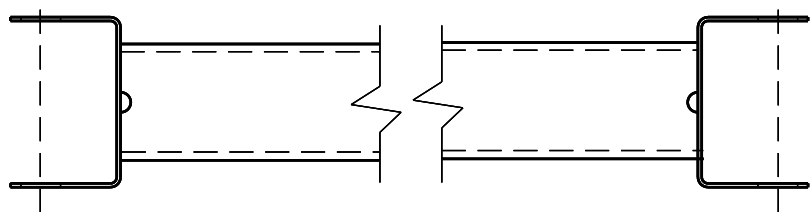
BOTTOM OF STRUT IS PLACED FLUSH WITH AND PARALLEL TO THE FINISHED SURFACE

POST NO. 2 *

DETAIL "B"

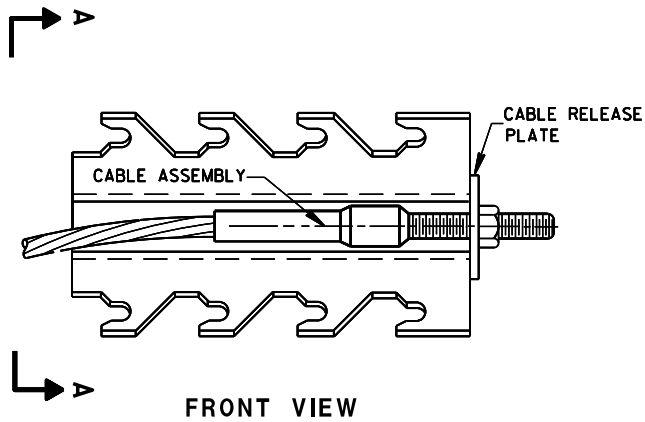
POST NO. 1 *

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION⁷³



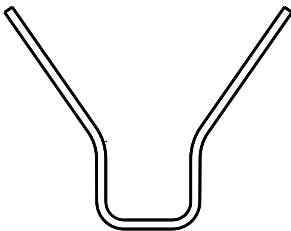
GENERIC GROUND STRUT

9 H

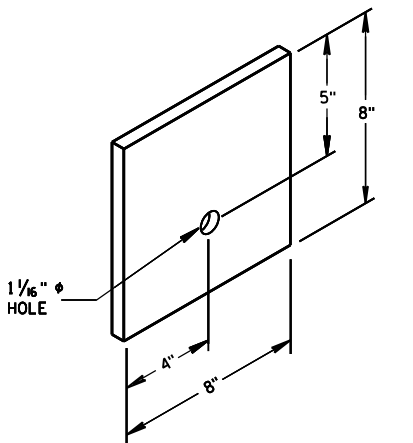


GENERIC ANCHOR CABLE BOX

8 H



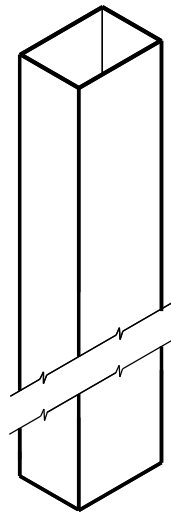
SECTION A-A



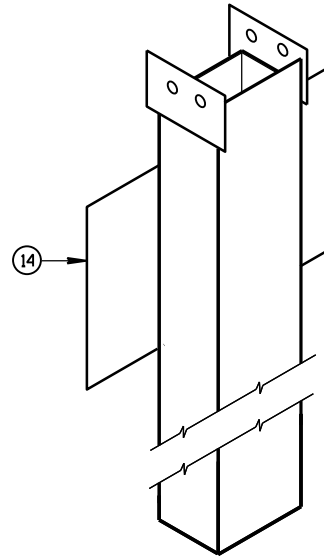
BEARING PLATE

6

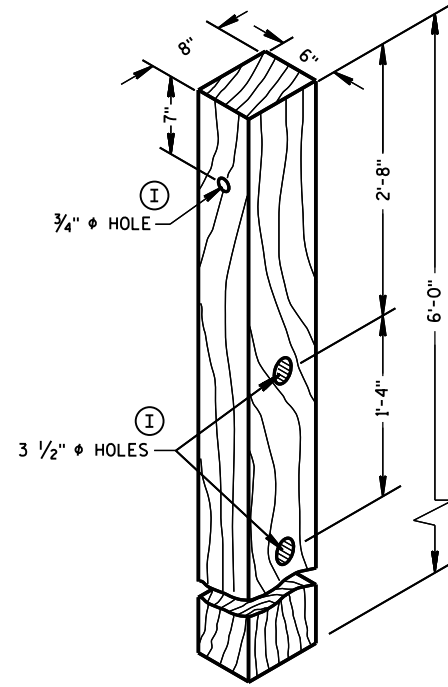
PART NO.	DESCRIPTION
	MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO.1 6" X 6" TUBE
②	LOWER POST NO.1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



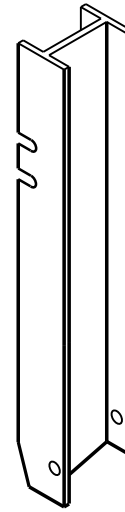
UPPER POST NO. 1⁽¹⁾



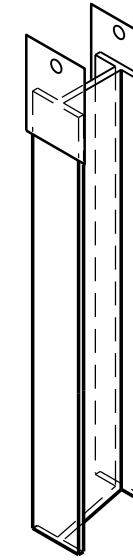
LOWER POST NO. 1⁽²⁾



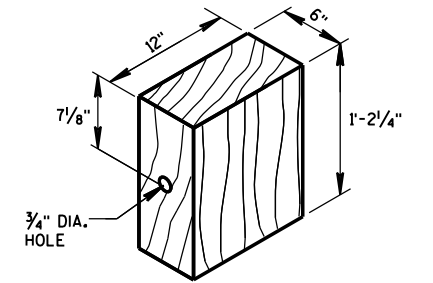
POSTS NUMBER 3-9
WOOD CRT POST⁽³⁾



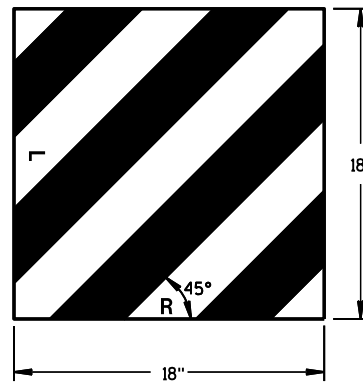
UPPER POST NO. 2⁽¹⁵⁾



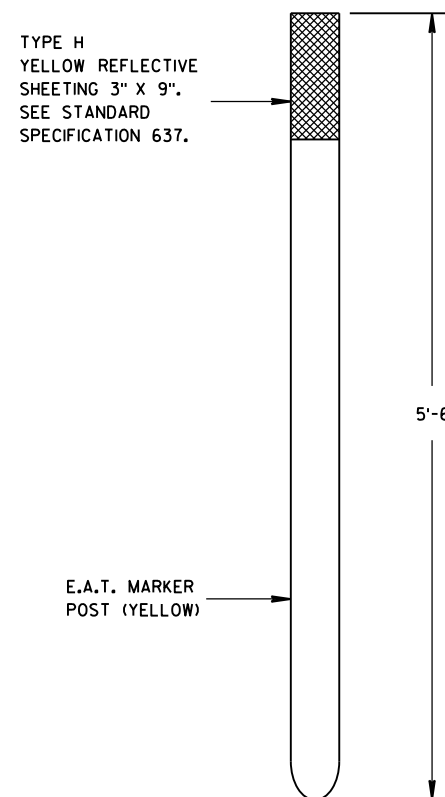
LOWER POST NO. 2⁽¹⁶⁾



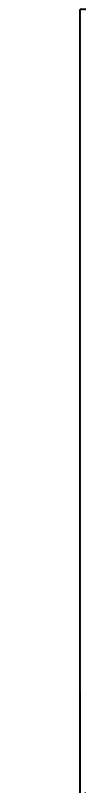
WOOD BLOCKOUT⁽⁴⁾
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



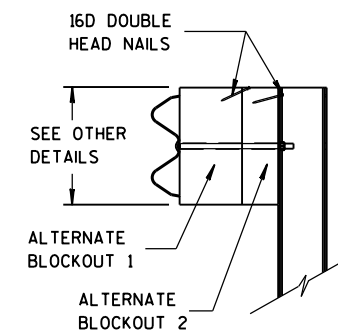
W5-59
REFLECTIVE SHEETING DETAIL^(H)



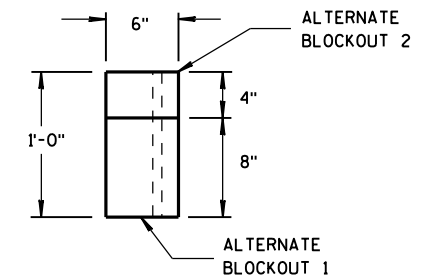
FRONT VIEW
E.A.T. MARKER POST⁽¹³⁾



SIDE VIEW



SIDE VIEW



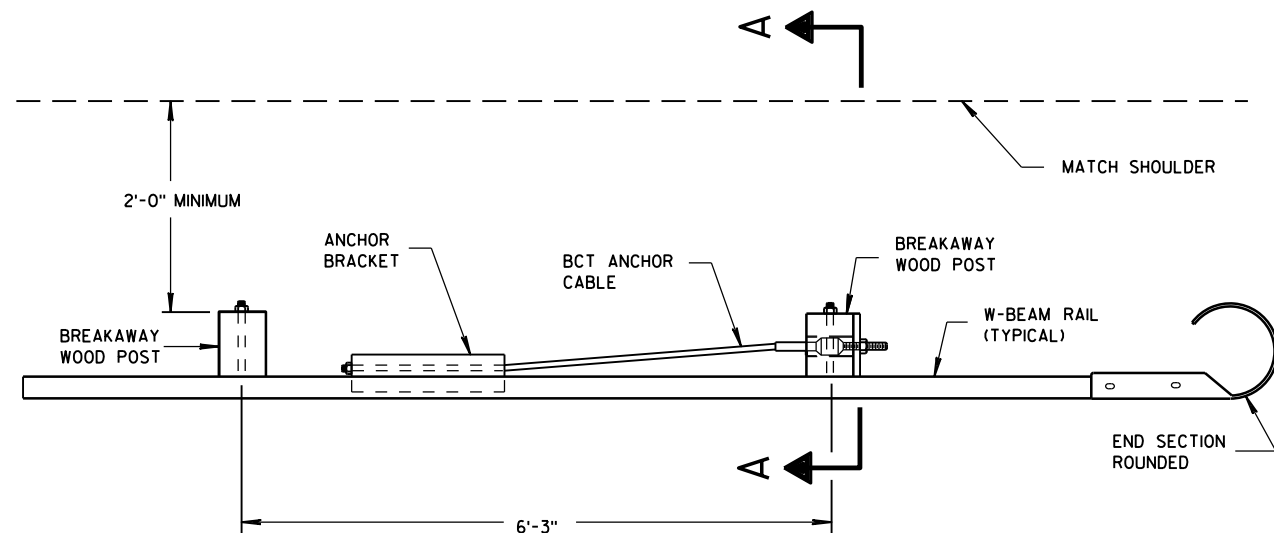
TOP VIEW

ALTERNATE WOOD
BLOCKOUT DETAIL

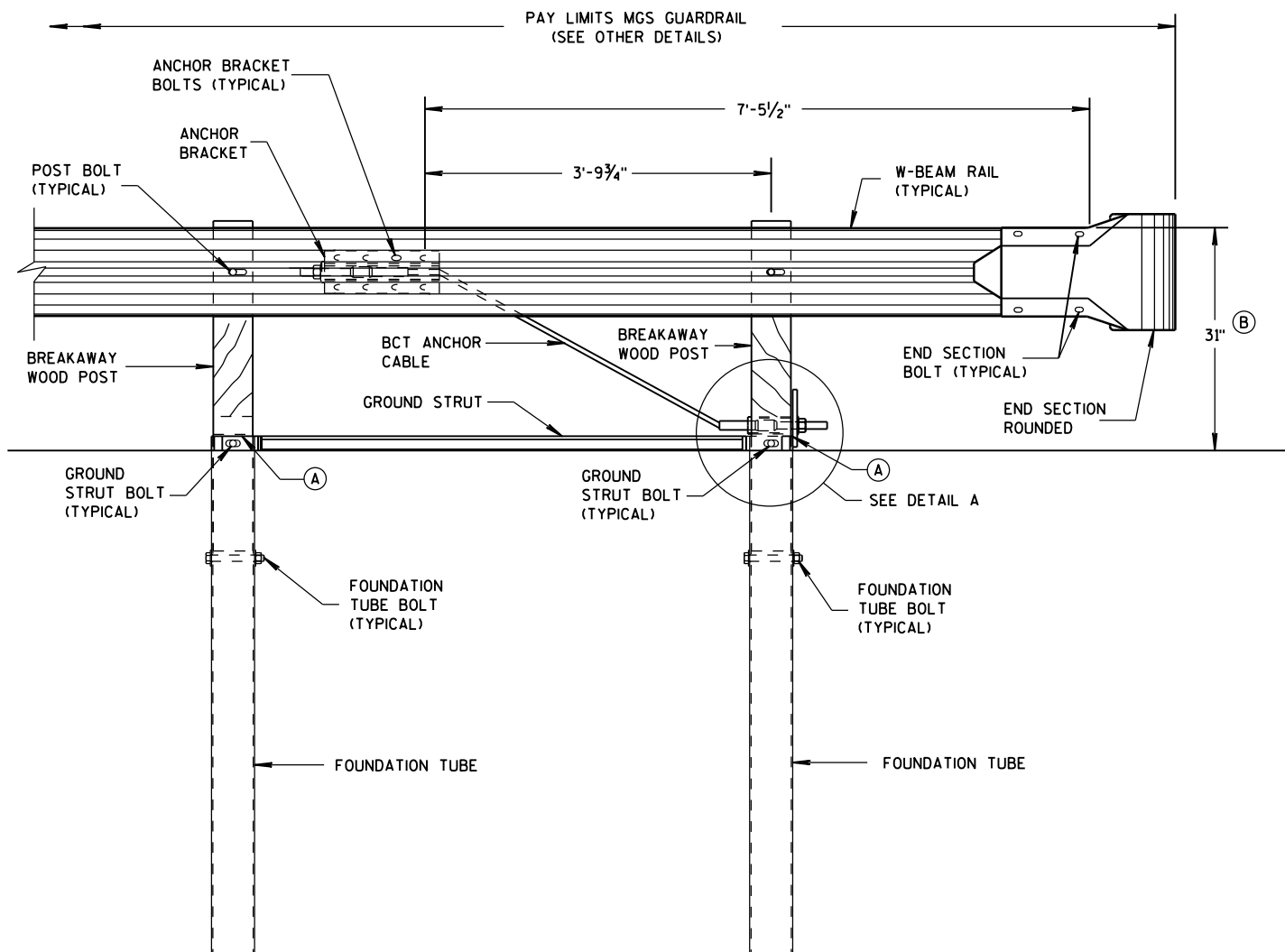
MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE June 2017 /S/ Rodney Taylor
ROADWAY STANDARDS 75 UNIT SUPERVISOR
FHWA

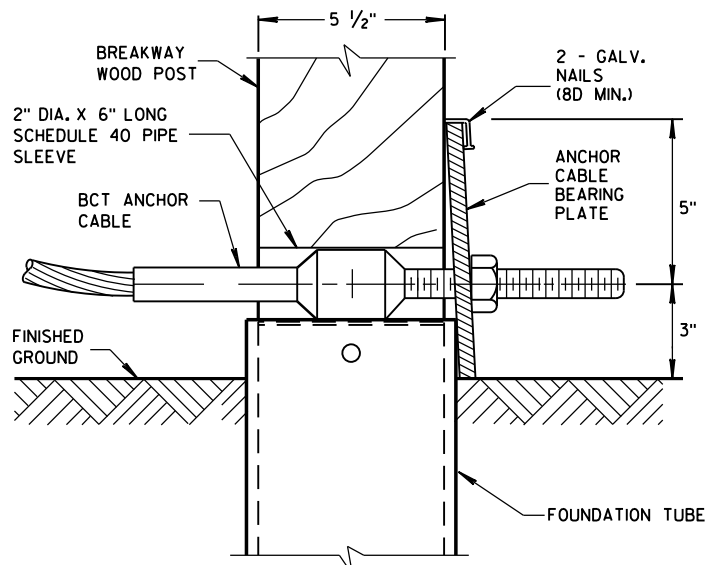


PLAN VIEW



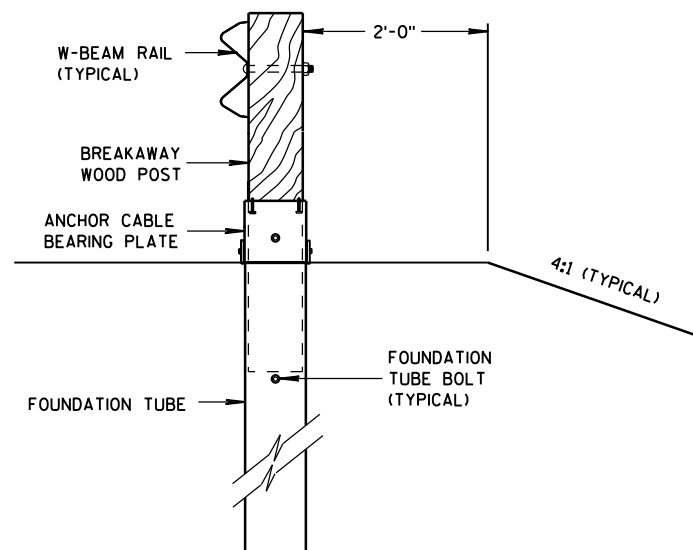
FRONT VIEW

END RAIL DETAIL



DETAIL A

POST NO. 1
GROUND STRUT NOT SHOWN FOR CLARITY.



SECTION A-A

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

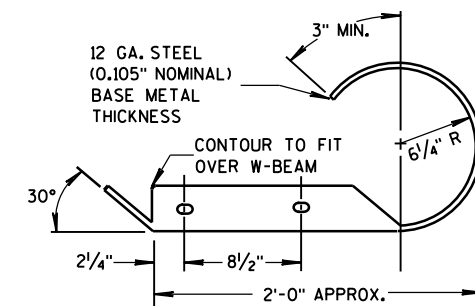
END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

FOUNDATION TUBE BOLTS ARE 7/8" DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 7/8" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

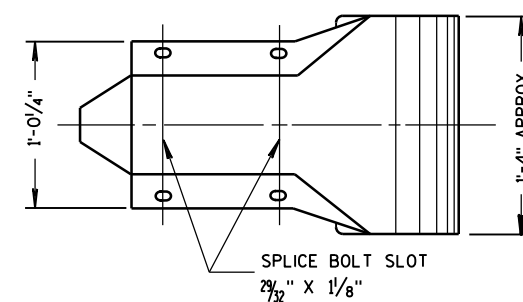
ANCHOR BRACKET AND GROUND STRUT BOLTS ARE A 5/8" DIAMETER ASTM A307 HEX HEAD BOLT. ANCHOR BRACKET BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 5/8" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

- (A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.
- (B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" $\pm$ 1". FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27 3/4" TO 32" $\pm$ 1".



PLAN VIEW

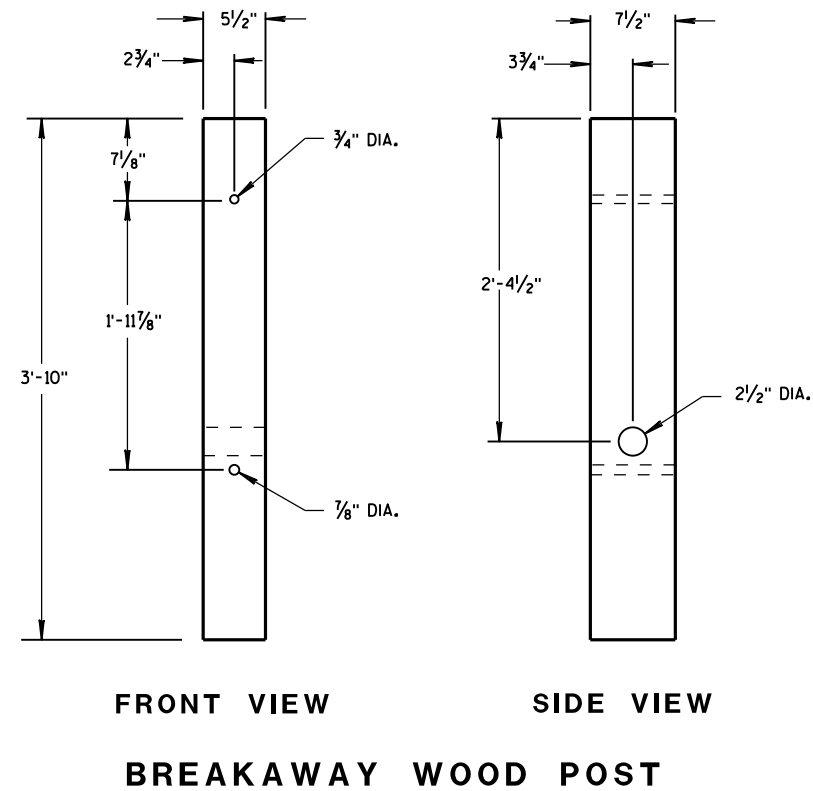
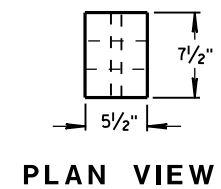
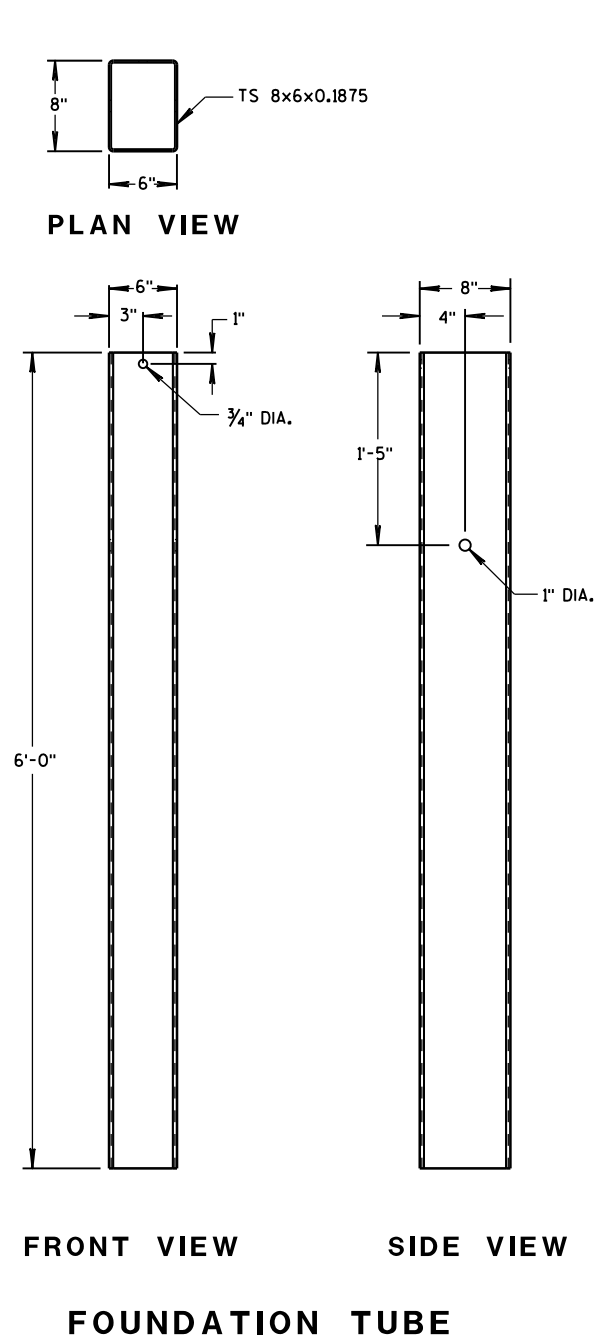


FRONT VIEW

W BEAM END
SECTION ROUNDED

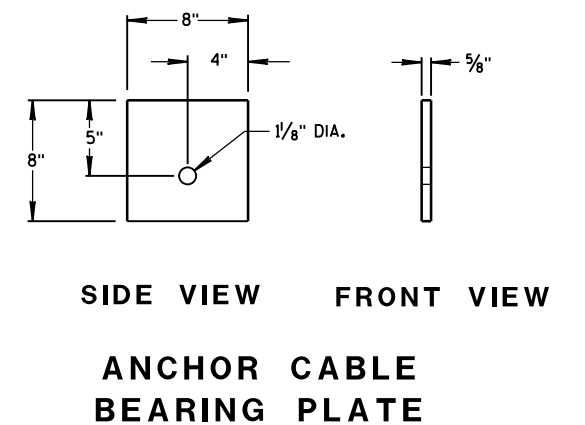
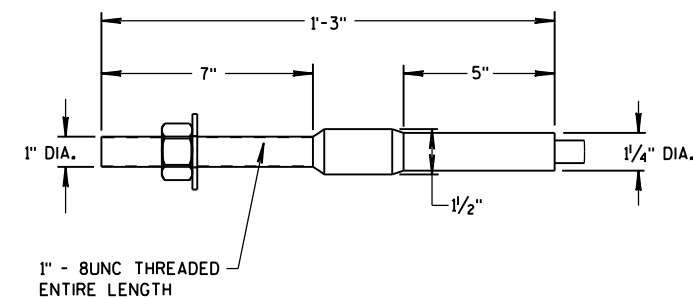
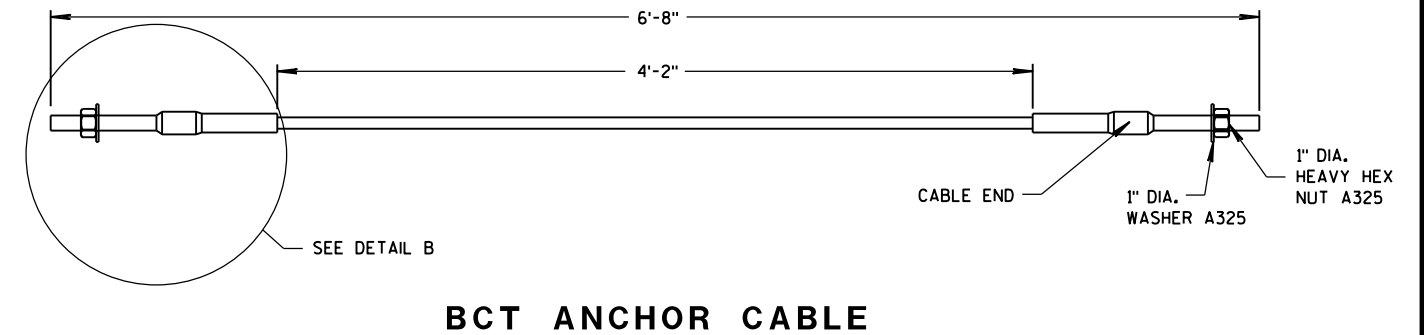
MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



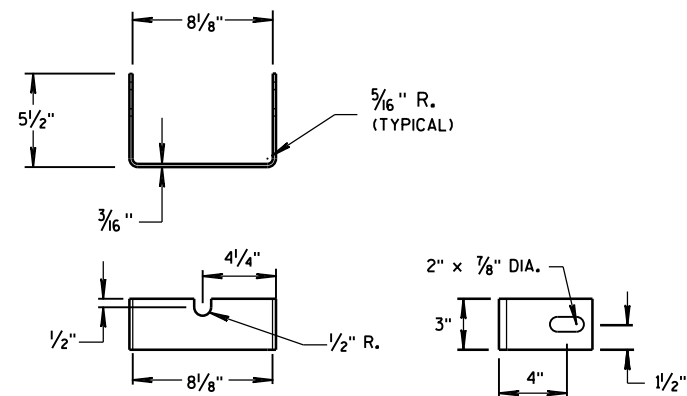
GENERAL NOTES

BCT ANCHOR CABLE IS A $\frac{3}{4}$ " DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. TREADED STUD SHALL CONFORM TO ASTM A325 OR SAE GRADE 5. MINIMUM BREAKING STRENGTH OF WIRE ROPE IS 43,000 LB. WIRE ROPE IS TO BE TAUT.

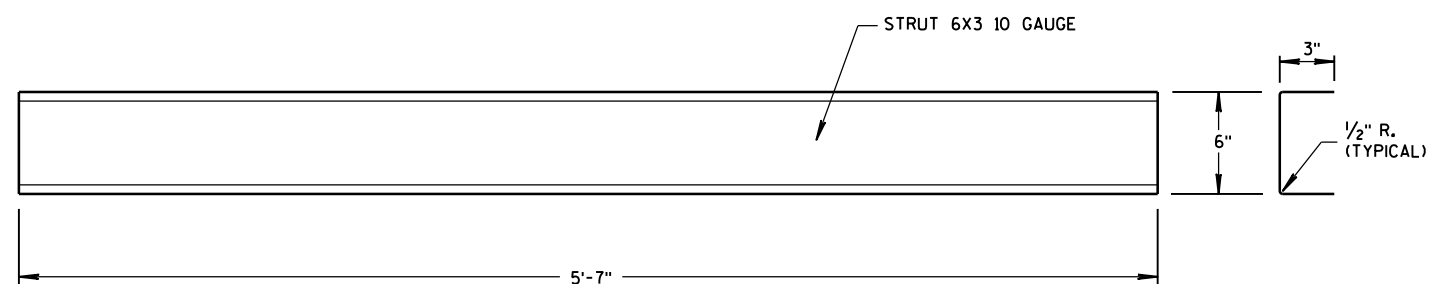


MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

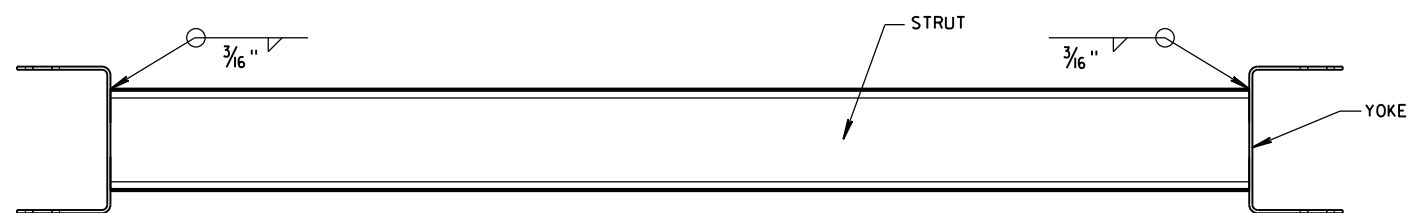
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



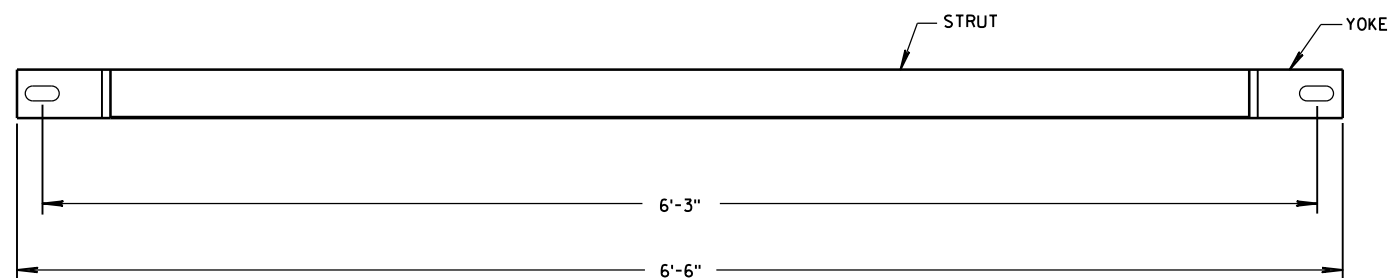
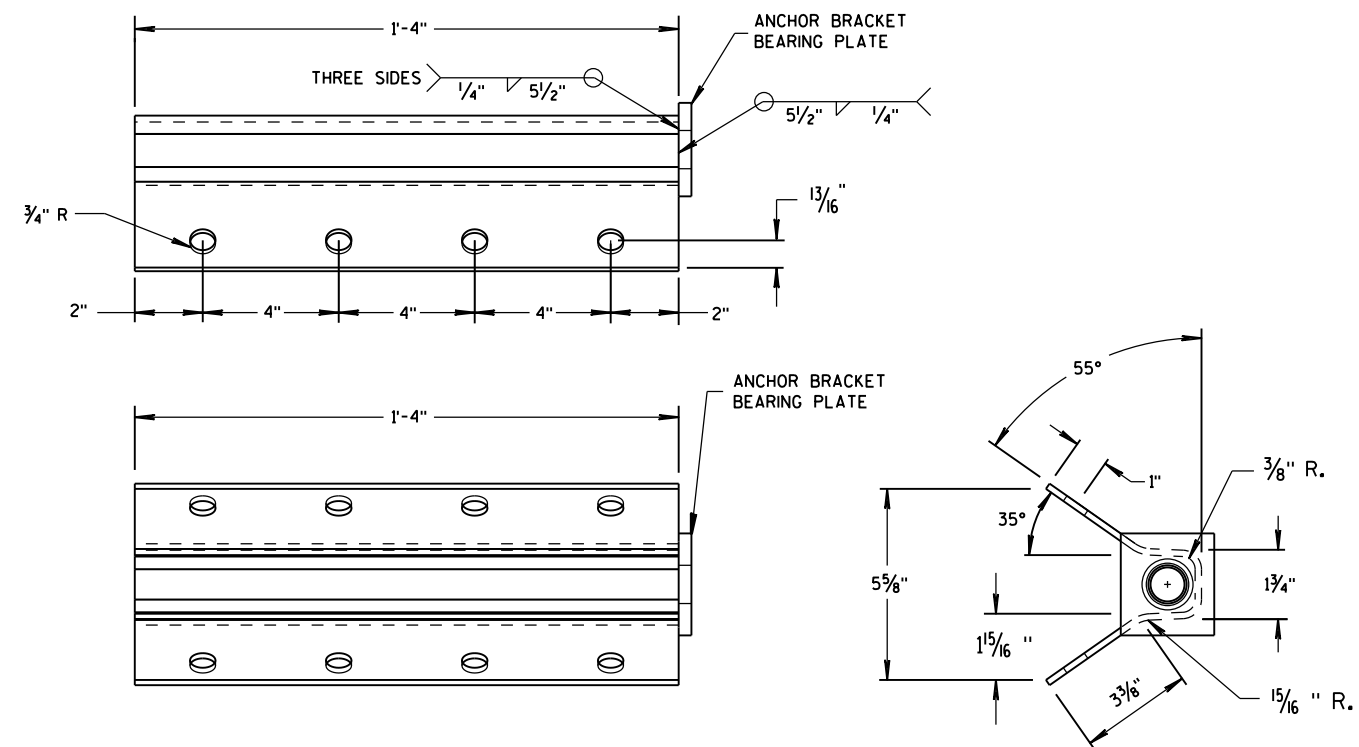
YOKE DETAIL



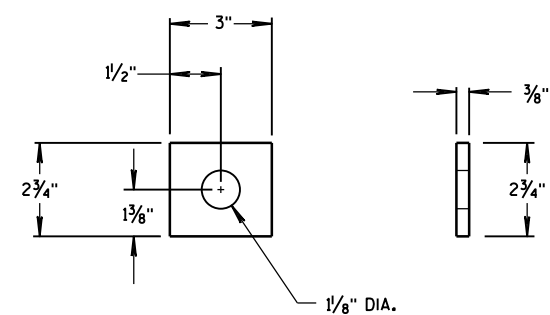
STRUT DETAIL



PLAN VIEW

FRONT VIEW
GROUND STRUT DETAIL

ANCHOR BRACKET

ANCHOR BRACKET
BEARING PLATEMIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINALSTATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATIONAPPROVED
June 2014 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS ENGINEER 78 ENT
FHWA

LEGEND

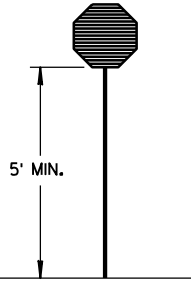
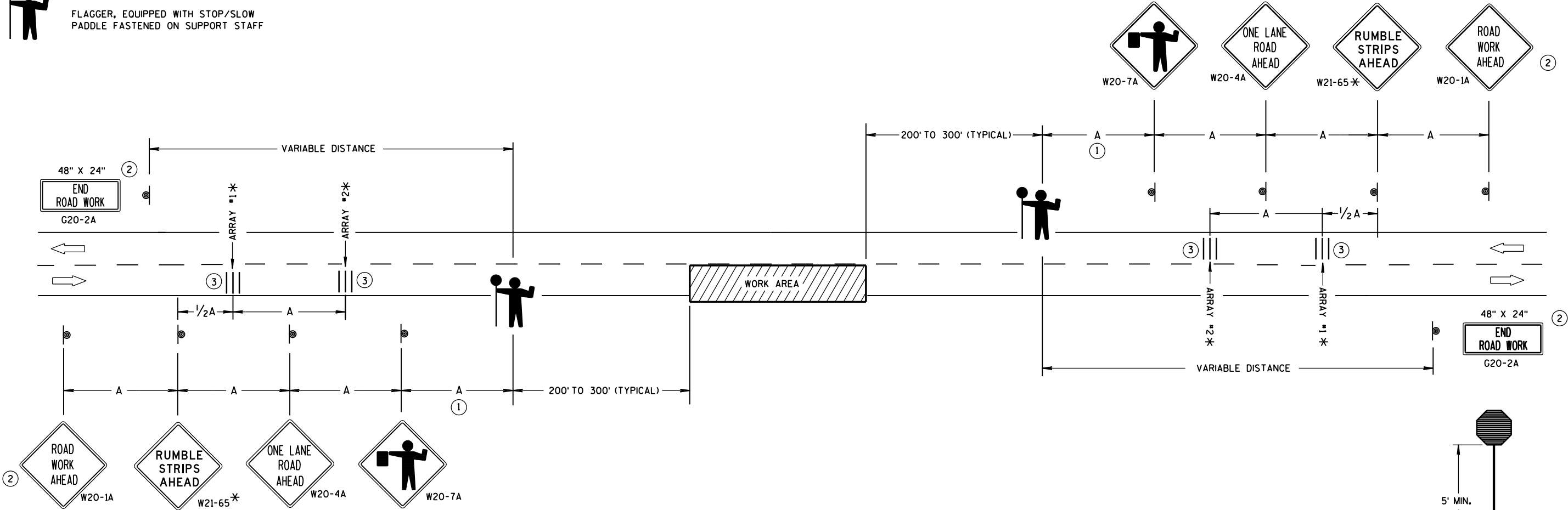
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.



STOP/SLOW PADDLE ON SUPPORT STAFF

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

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

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

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

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

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Andrew Heldtke
DATE WORK ZONE ENC 79
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.

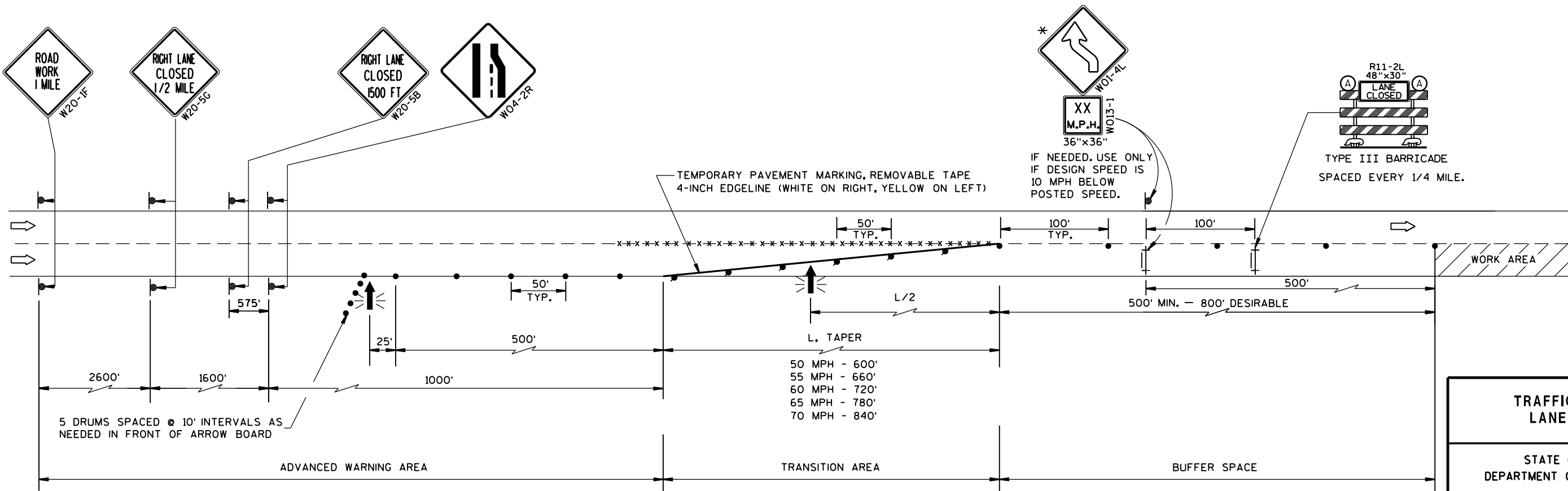
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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.

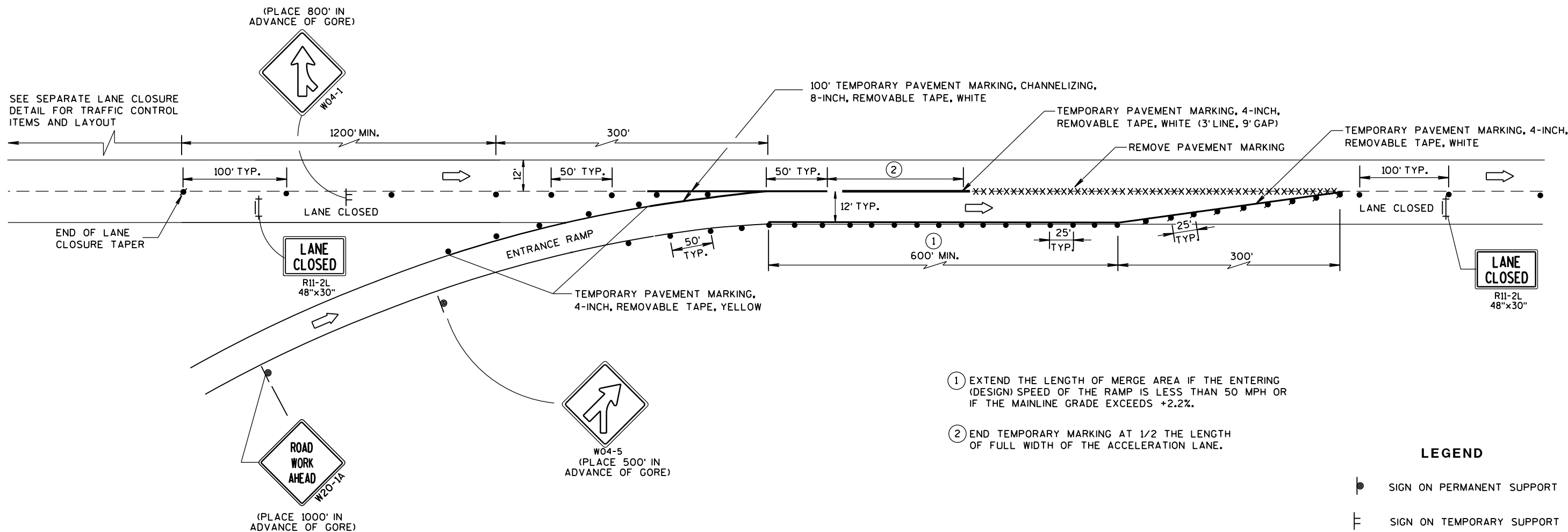
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN 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 SAFETY ENGINEER
FHWA	

TRAFFIC CONTROL, ENTRANCE RAMP WITHIN RIGHT LANE CLOSURE



PARALLEL ENTRANCE RAMP

GENERAL NOTES

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

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

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

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

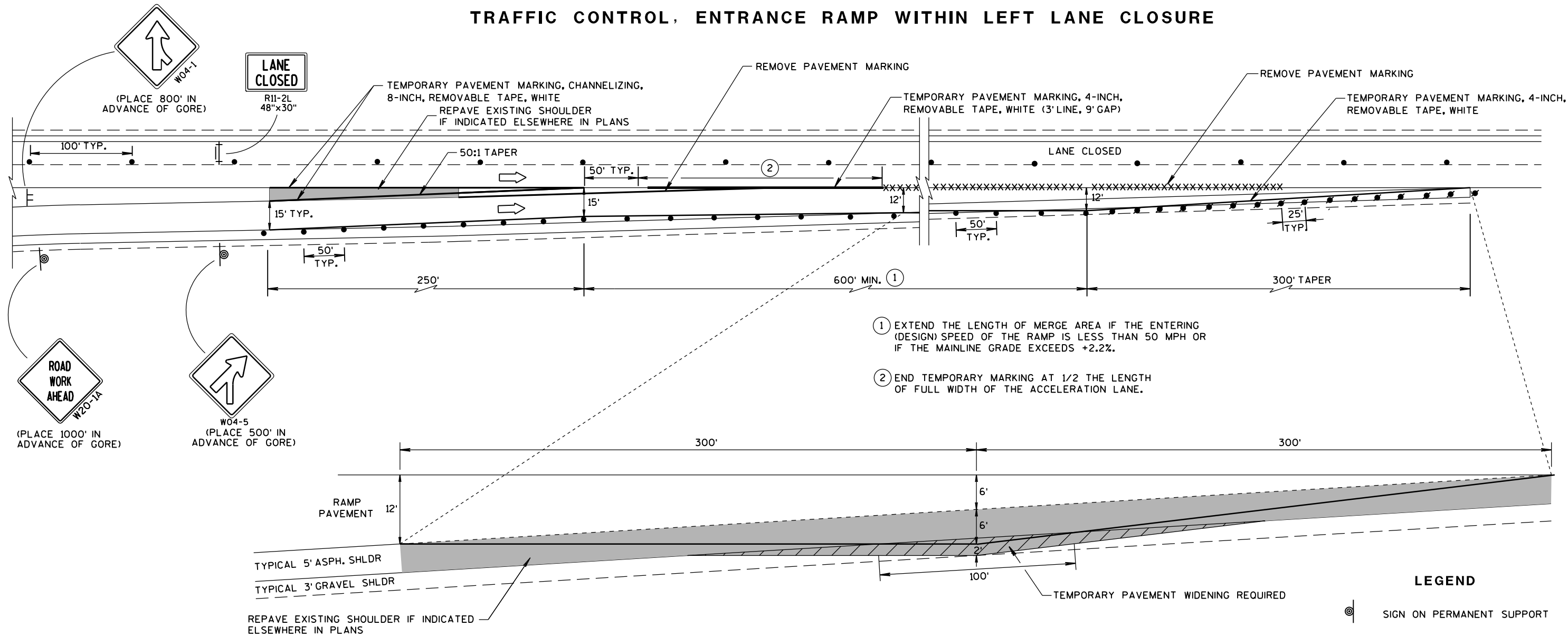
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

LEGEND

- SIGN ON PERMANENT SUPPORT
- ├ SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- ├ TYPE III BARRICADE WITH ATTACHED SIGN
- XXXXX REMOVING PAVEMENT MARKING
- ➡ DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED Sept., 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENC 81
FHWA	

TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LEFT LANE CLOSURE



TEMPORARY PAVEMENT DETAIL

(EXISTING RAMP DIMENSIONS MAY VARY. ADJUST TEMPORARY PAVEMENT ACCORDINGLY)

LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ⌄ SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- ⌄ TYPE III BARRICADE WITH ATTACHED SIGN
- XXXXX REMOVING PAVEMENT MARKING
- ➡ DIRECTION OF TRAFFIC

GENERAL NOTES

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

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

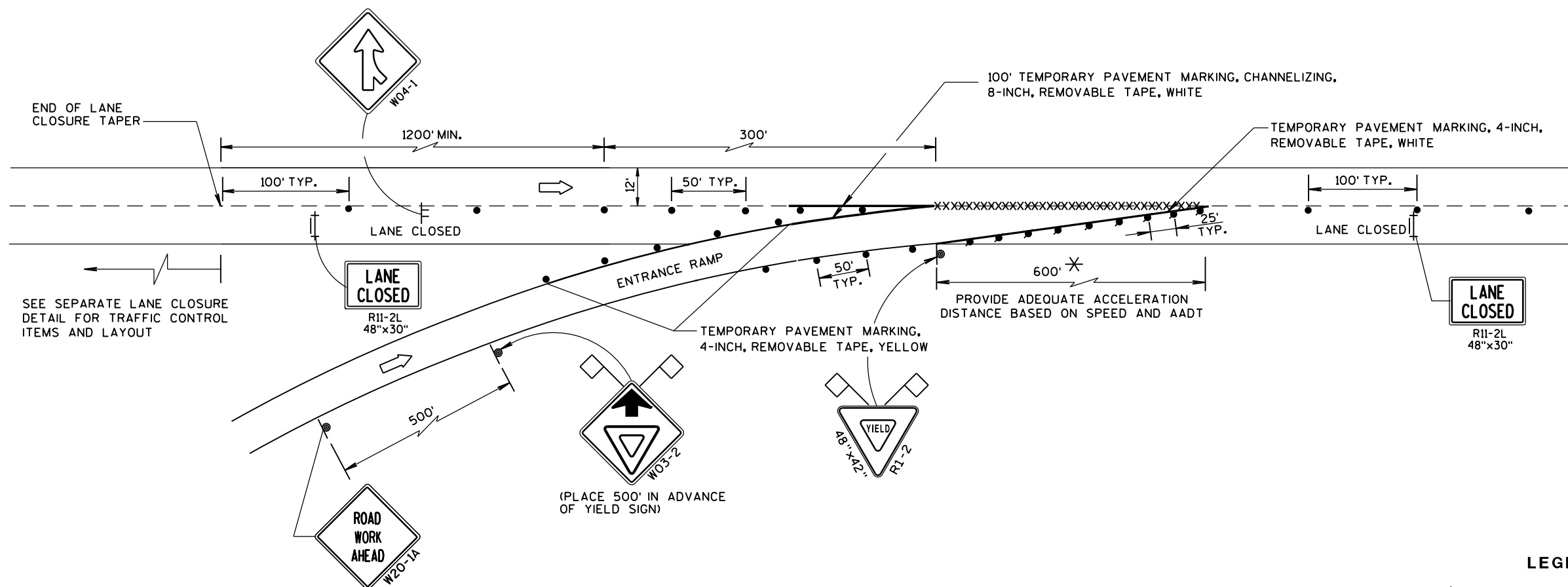
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED Sept., 2017 DATE	/S/ Andrew Heldtke WORK ZONE ENG 82
FHWA	



TAPERED ENTRANCE RAMP WITHIN RIGHT LANE CLOSURE

GENERAL NOTES

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

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

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

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

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

✱ CONSULT WITH REGIONAL WORK ZONE ENGINEER IF NEED TO REDUCE LENGTH EXISTS.

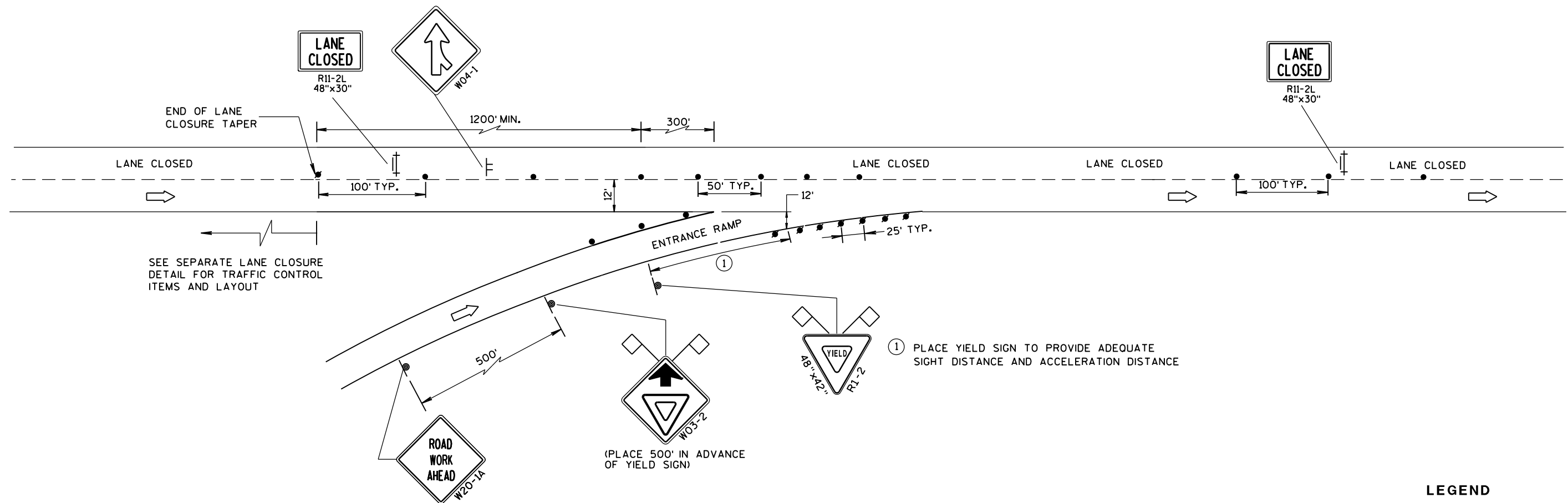
LEGEND

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

TRAFFIC CONTROL,
TAPERED ENTRANCE RAMP
WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2017 /S/ Andrew Heidtke
DATE WORK ZONE ENC 83
FHWA



TAPERED ENTRANCE RAMP WITHIN LEFT LANE CLOSURE

GENERAL NOTES

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

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

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

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

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

LEGEND

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

TRAFFIC CONTROL,
TAPERED ENTRANCE RAMP
WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

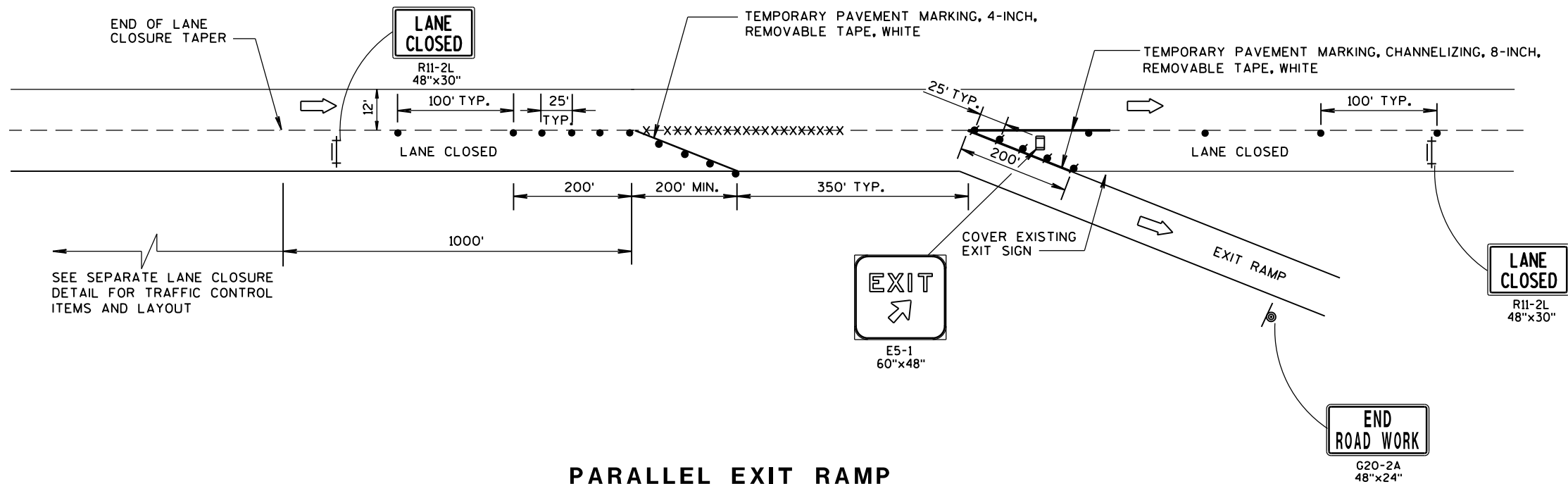
Sept., 2017

DATE

FHWA

/S/ Andrew Heidtke

WORK ZONE ENC 84



PARALLEL EXIT RAMP

GENERAL NOTES

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

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

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

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

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

LEGEND

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

TRAFFIC CONTROL,
PARALLEL EXIT RAMP
WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE Sept., 2017 /S/ Andrew Heidtke
WORK ZONE ENC 85
FHWA

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

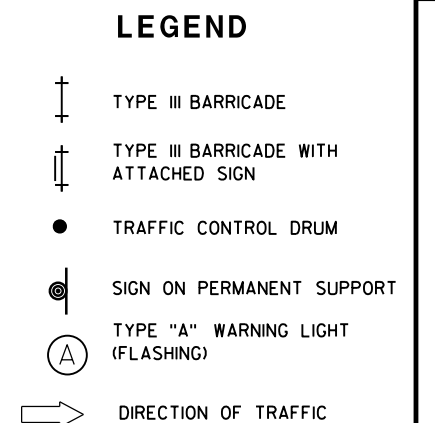
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

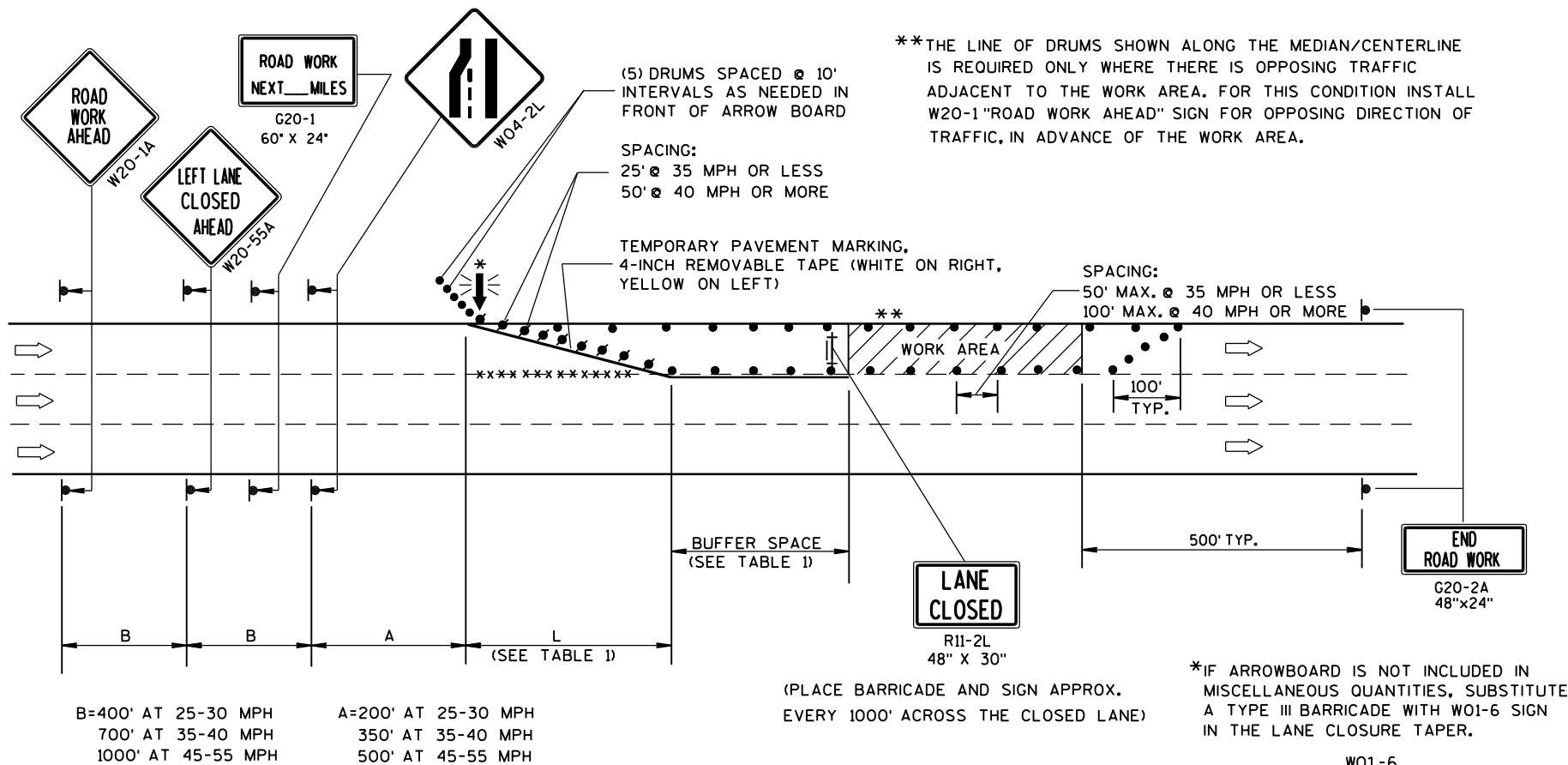
WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12-HOUR DURATION.

** PLACE "RAMP WILL BE CLOSED" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
 Sept. 2015 /S/ Peter Amakobe Atepe
 DATE STATEWIDE WORK ZO 86 FIC
 FHWA SAFETY ENGI



GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

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

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

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

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

TABLE 1
TAPER AND BUFFER SPACE
FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

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

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2016 DATE	/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA	

LEGEND

- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ⚡➡ FLASHING ARROW BOARD
- ▨ WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

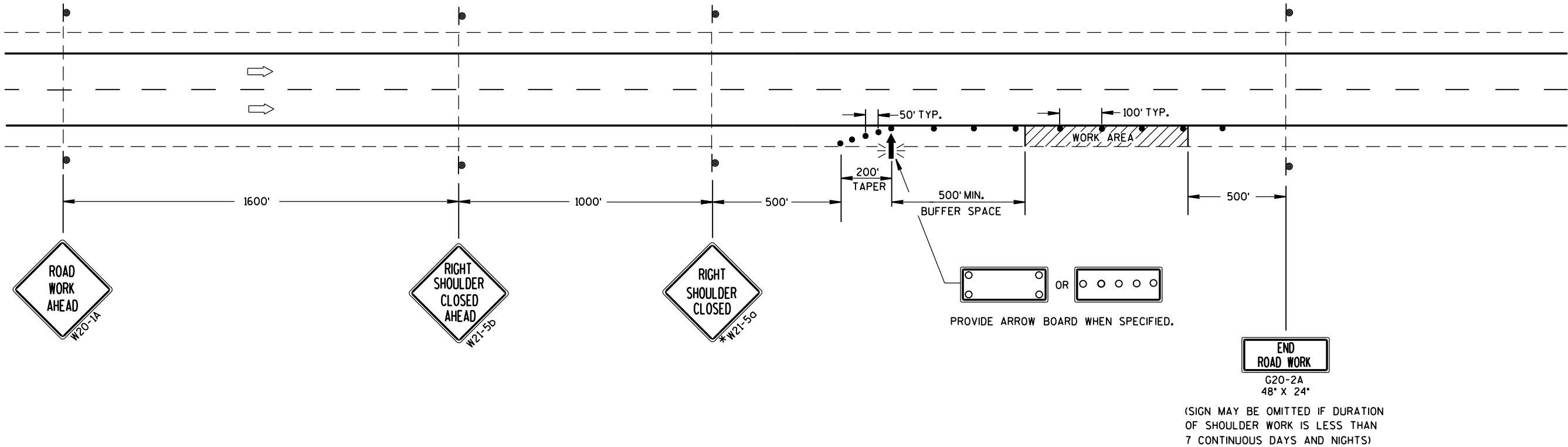
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A 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.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
APPROVED			
June 2016	/S/ Peter Amakobe Atepe		
DATE	STATEWIDE WORK ZONE	2016	IC
FHWA	SAFETY ENGINEER		

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.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

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

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.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

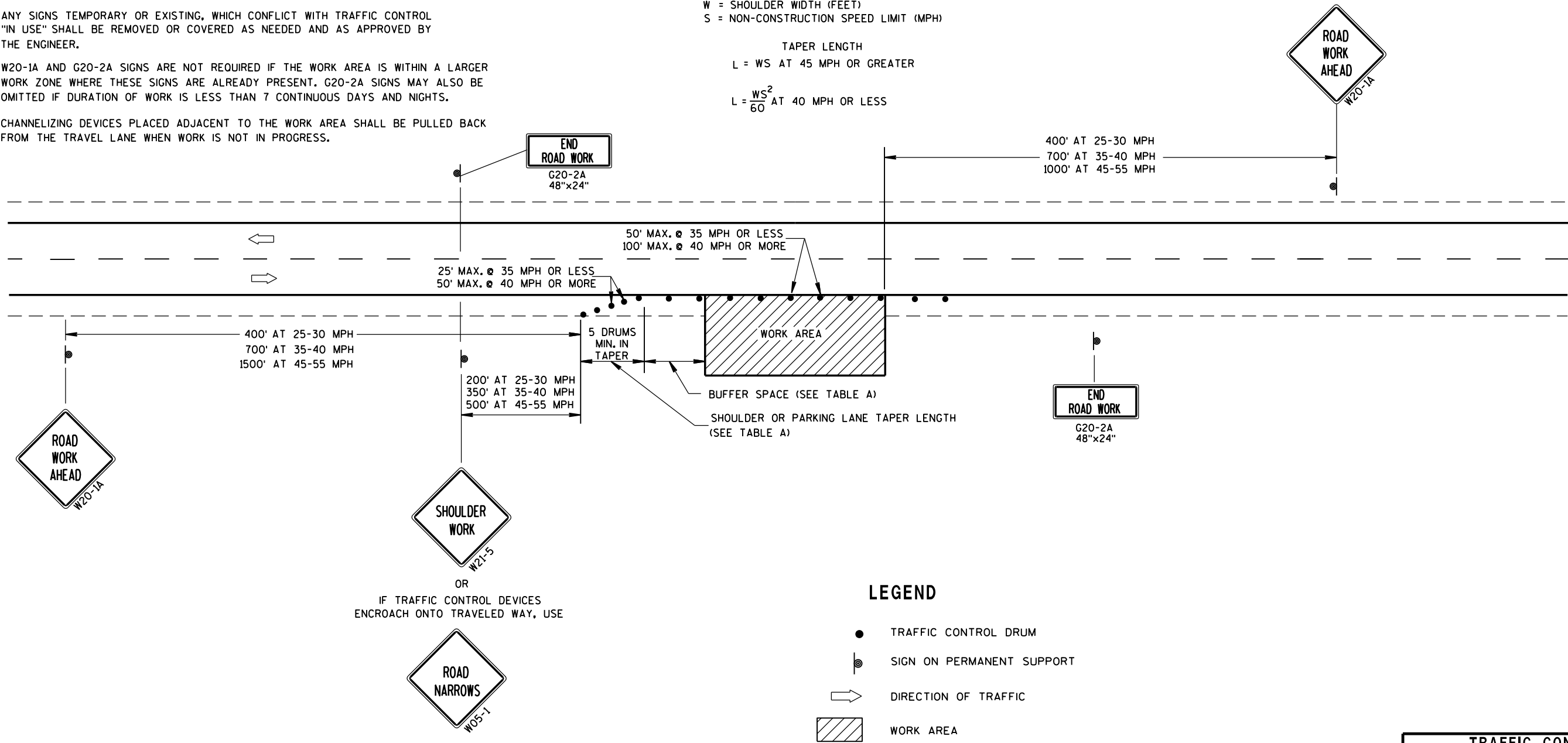
SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S	W	4	6	8	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH
L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

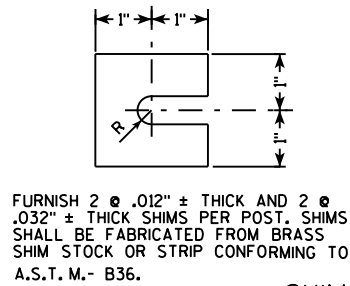
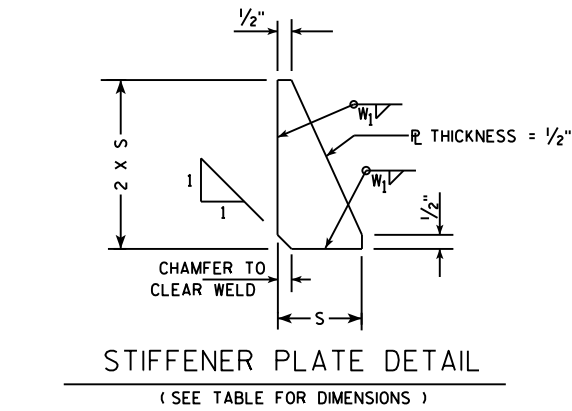
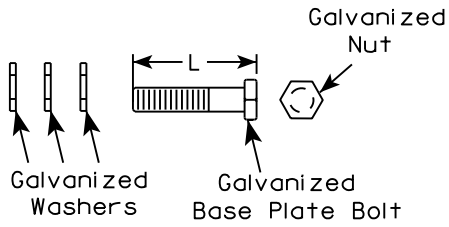
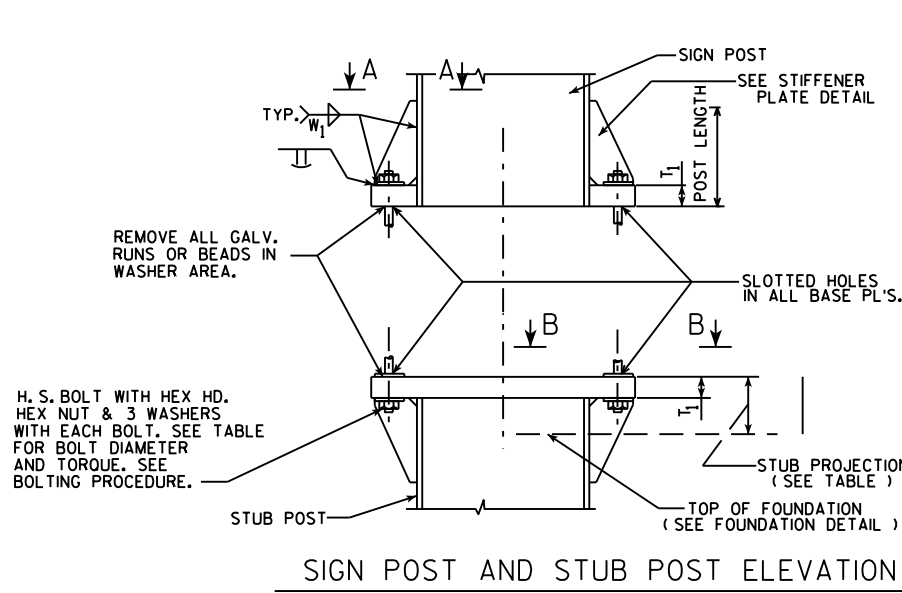
SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

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

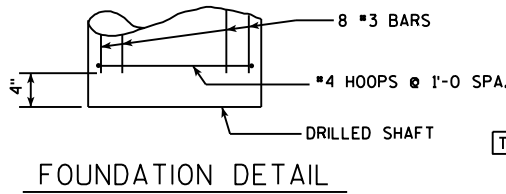
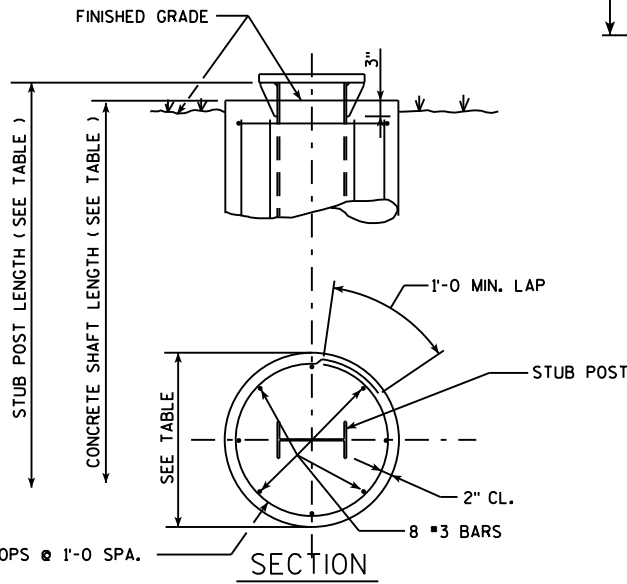
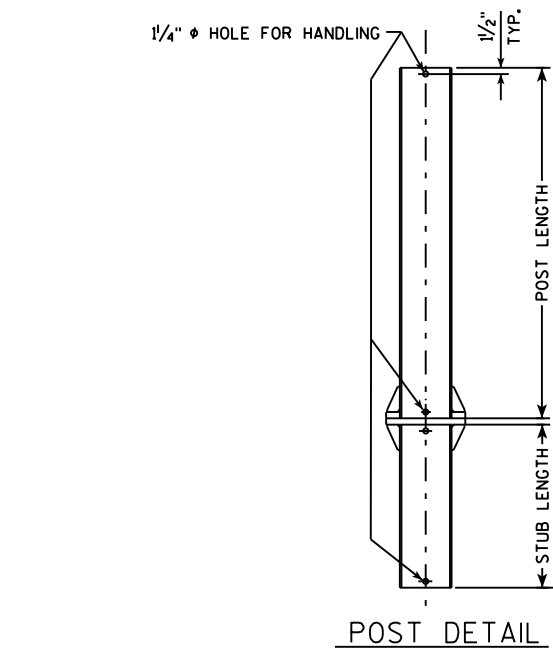
TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
APPROVED July 14, 2015 DATE	/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE SAFETY ENGINEER	IC
FHWA		



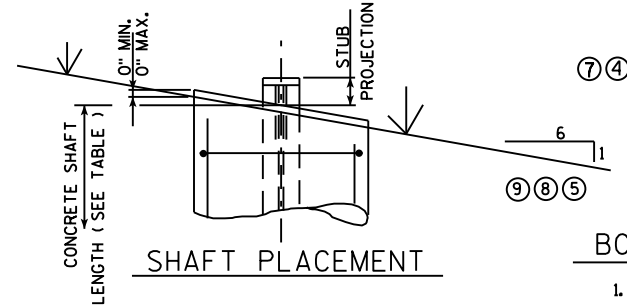
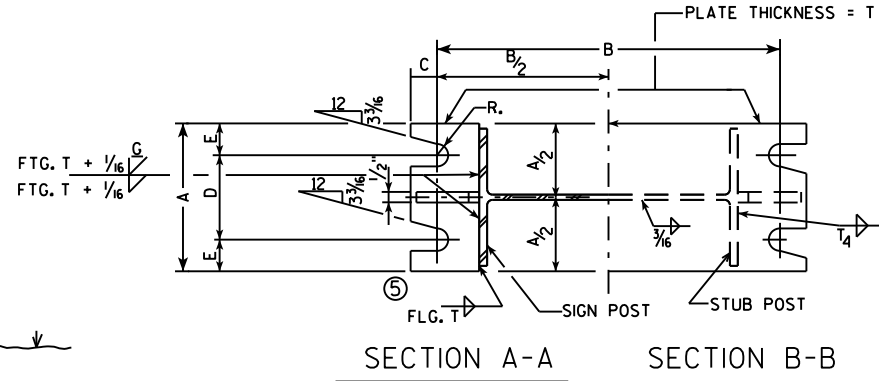
SHIM DETAIL

QUANTITIES FOR 1 FOOTING		
	CONC. MASONRY C.Y.	REINF. STEEL LBS.
A	0.6	34
B	0.8	49
C	0.9	50
D	0.9	56
E	1.0	62

REINF.	TYPE	#3		#4	
		8 @ 4'-5"	5 @ 6'-3"	8 @ 6'-3"	7 @ 6'-3"
⑦	A	8 @ 4'-5"	5 @ 6'-3"	8 @ 6'-3"	7 @ 6'-3"
	B	8 @ 6'-5"	7 @ 6'-3"	8 @ 6'-3"	7 @ 6'-3"
	C	8 @ 6'-11"	7 @ 6'-3"	8 @ 6'-3"	7 @ 6'-3"
	D	8 @ 7'-5"	8 @ 6'-3"	8 @ 6'-3"	7 @ 6'-3"
⑦	E	8 @ 7'-11"	9 @ 6'-3"	8 @ 6'-3"	7 @ 6'-3"

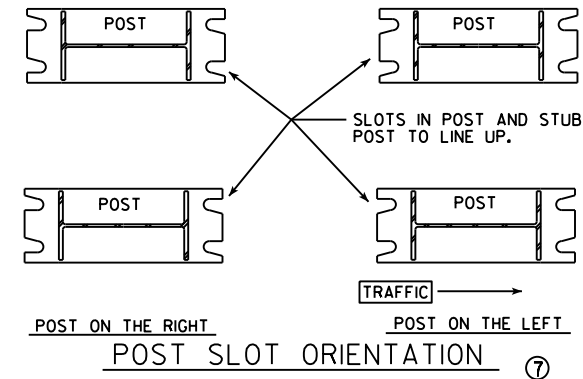


FOUNDATION DETAIL



BOLTING PROCEDURE - BASE CONNECTION

1. ASSEMBLE SIGN POST TO STUB POST WITH BOLTS AND ONE OF THE FLAT WASHERS ON EACH BOLT BETW. PLATES.
 2. SHIM AS REQ'D. TO PLUMB POST.
 3. PRIOR TO BOLT TIGHTENING LUBRICATE BASE CONNECTION BOLTS WITH BEESWAX OR OTHER HIGH-WAX LUBRICANT.
 4. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. (SEE TABLE)
 5. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.
- NOTE:
TIGHTEN THE HIGH STRENGTH BOLTS TO THE TORQUE SHOWN. DO NOT OVERTIGHTEN.



POST SLOT ORIENTATION

					BASE CONNECTION DATA TABLE											FOUNDATION DATA				②
L	X	TYPE	POST SIZE	WEIGHT PER FT	BOLT SIZE & TORQUE	A	B	C	D	E	T ₁	T ₄	W ₁	R	S	STUB LENGTH	STUB PROJECTION	SHAFT DIAMETER	SHAFT LENGTH	K
3 ¾	④	A	W10"x12.0	12.0 LBS	¾" φ @ 75"-FT.	5¼"	1'-0 ⅜"	⅞"	3½"	⅞"	1"	⅜"	⅝"	⅜"	2⅛"	3'-6"	3"	2'-0 φ	5'-0"	76.0*
4 ¾	④	B	W12"x16.0	16.0 LBS	⅞" φ @ 85"-FT.	5½"	1'-4¼"	1"	3½"	1"	1¼"	¼"	⅝"	⅜"	3"	5'-6"	3"	2'-0 φ	7'-0"	146.5*
5		C	W12"x19.0	19.0 LBS	⅞" φ @ 85"-FT.	5½"	1'-4¼"	1"	3½"	1"	1½"	⅝"	⅝"	⅜"	3"	6'-0"	3"	2'-0 φ	7'-6"	182.1*
5		D	W12"x22.0	22.0 LBS	⅞" φ @ 85"-FT.	5½"	1'-4¼"	1"	3½"	1"	1½"	⅝"	⅝"	⅜"	3"	6'-6"	3"	2'-0 φ	8'-0"	210.5*
5	③	E	W12"x26.0	26.0 LBS	1" φ @ 90"-FT.	7"	1'-4¼"	1¼"	4"	1½"	1½"	⅜"	⅝"	⅜"	3"	7'-0"	3"	2'-0 φ	8'-6"	293.0*

① ⑥ ①

STRUCTURAL CARBON STEEL PAY WTS. (1POST) = K + (POST LENGTH X POST WT.)
"K" INCLUDES STUB, BASE PLATES, STIFFS., BOLTS, AND WASHERS.

DESIGN DATA

WIND PRESSURE = 75 M.P.H.
WIND COMPONENTS - NORMAL = 1.0 TRANSVERSE = 0.0
ICE LOAD = 3 P.S.F.
GROUP LOADS
1. DEAD 100
2. DEAD & WIND 140
3. DEAD, ICE & 1/2 WIND 140
ALLOWABLE SOIL PRESSURE = 1/2 T / SO. FT.
WIND LOAD WAS APPLIED TO THE AREA OF THE SIGN AND TO THE SUPPORTING MEMBERS.
ICE LOAD WAS APPLIED TO ONE FACE OF THE SIGN AND AROUND THE SURFACE OF THE SUPPORTING MEMBERS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DESIGN CONFORMS WITH A.A.S.H.T.O. SPECIFICATIONS 1985.
ALL POSTS, POST STUBS & ATTACHMENTS SHALL BE A.S.T.M. A709 GRADE 50, GALVANIZED IN ACCORDANCE WITH ASTM A123.
THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.
FURNISH STEEL BOLTS, NUTS, AND WASHERS IN ACCORDANCE WITH SECTION 635 OF THE STANDARD SPECIFICATIONS.

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/22/17 PLATE NO. A3-1.17

⑩	1-21-14	LUBRICATION OF BASE BOLTS
⑨	4-26-11	REMOVE NON-GALVANIZED
⑧	10-30-96	NOT GALVANIZED/GALVANIZED
⑦	10-30-92	QUANT., A588 EXCEPT., ADD SLOT VIEW
⑥	8-24-87	BASE CONN. WELD
⑤	10-13-81	BASE CONN. WELD & FUSE R WASHERS
④	10-19-79	POST A & B, A572 GR. 50, & K
②	11-28-78	"K" ③ 4-23-79 TYPE "E"
①	5-4-78	T ₁ · T ₂ & W ₁

NO. DATE REVISION
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

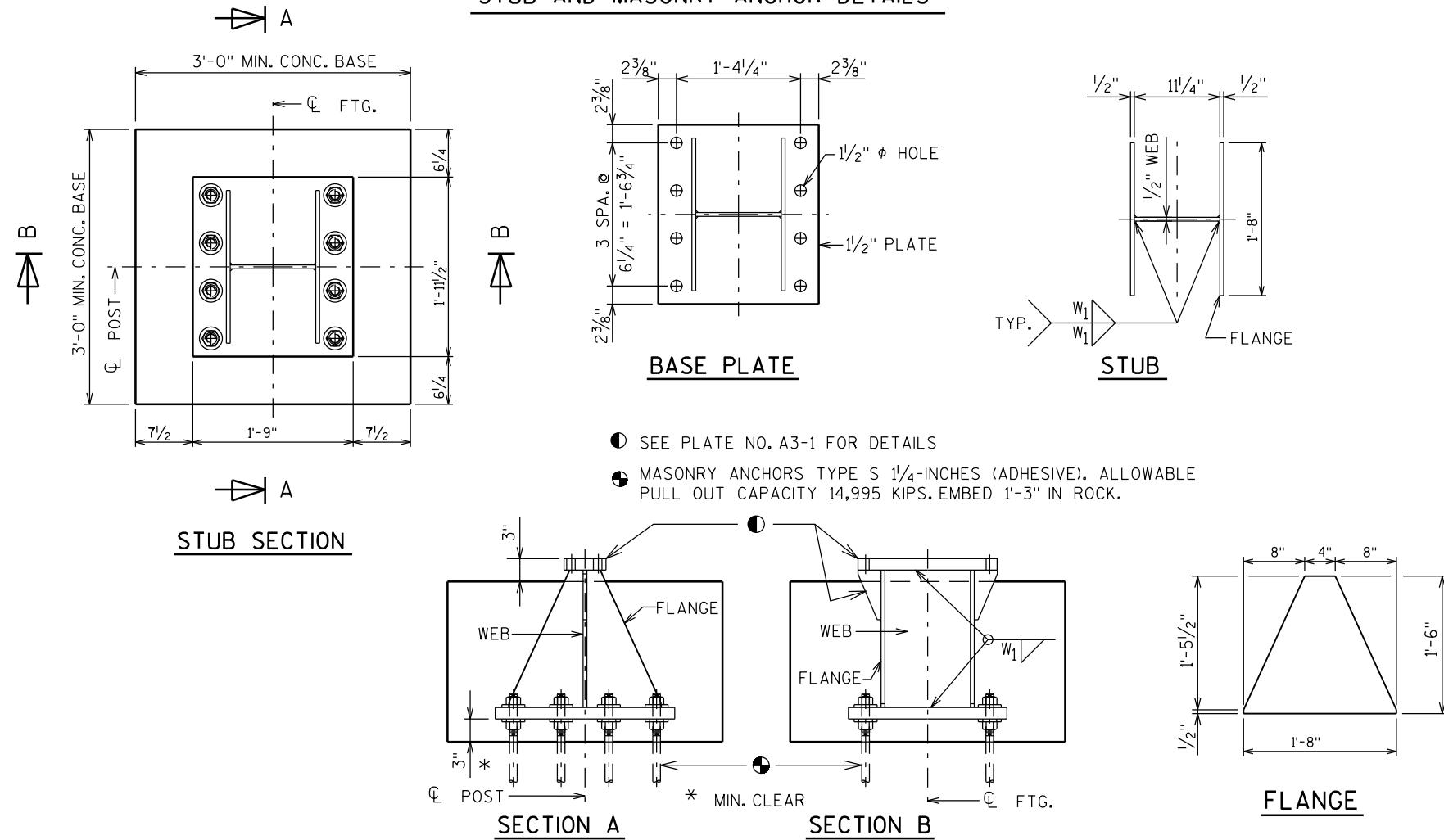
TYPE A, B, C, D, & E

CONST. SPEC. 2011 DRAWN BY JPH PLANS CKD.

FTG. & SIGN SUPPORT DETAILS
GROUND MOUNT
BREAK-AWAY SIGNS

SHEET

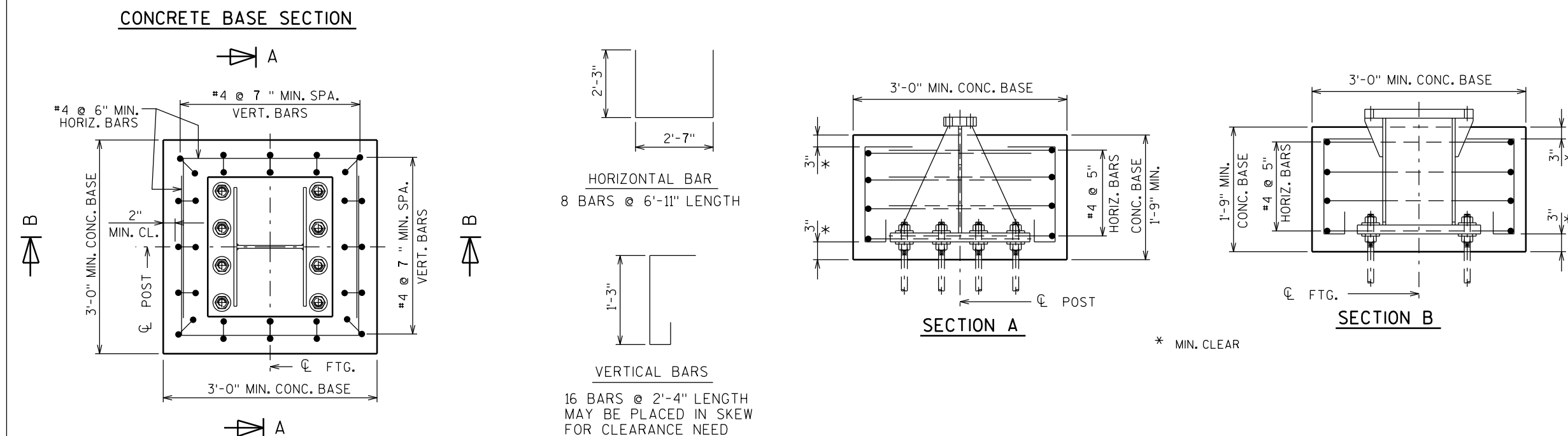
STUB AND MASONRY ANCHOR DETAILS



GENERAL NOTES

- Quantities per Base:
 - REINFORCING BAR STEEL = 62 LBS
 - CONCRETE = 0.6 C.Y.
 - STEEL WEIGHT = 335 LBS
- All materials, except anchor rod, nuts and washers, are to be A.S.T.M. A709 grade 50. All materials to be galvanized after fabrication.
- If the contractor encounters rock before reaching the footing depth, per the A3-1 Sign Detail, determine the pull-out capacity of a test adhesive anchor installed in the rock. If the test result equals or exceeds the pull-out capacity of 14,995 KIPS, the contractor may install the breakaway stub for rock, according to this detail.

CONCRETE BASE AND REINFORCING STEEL DETAILS



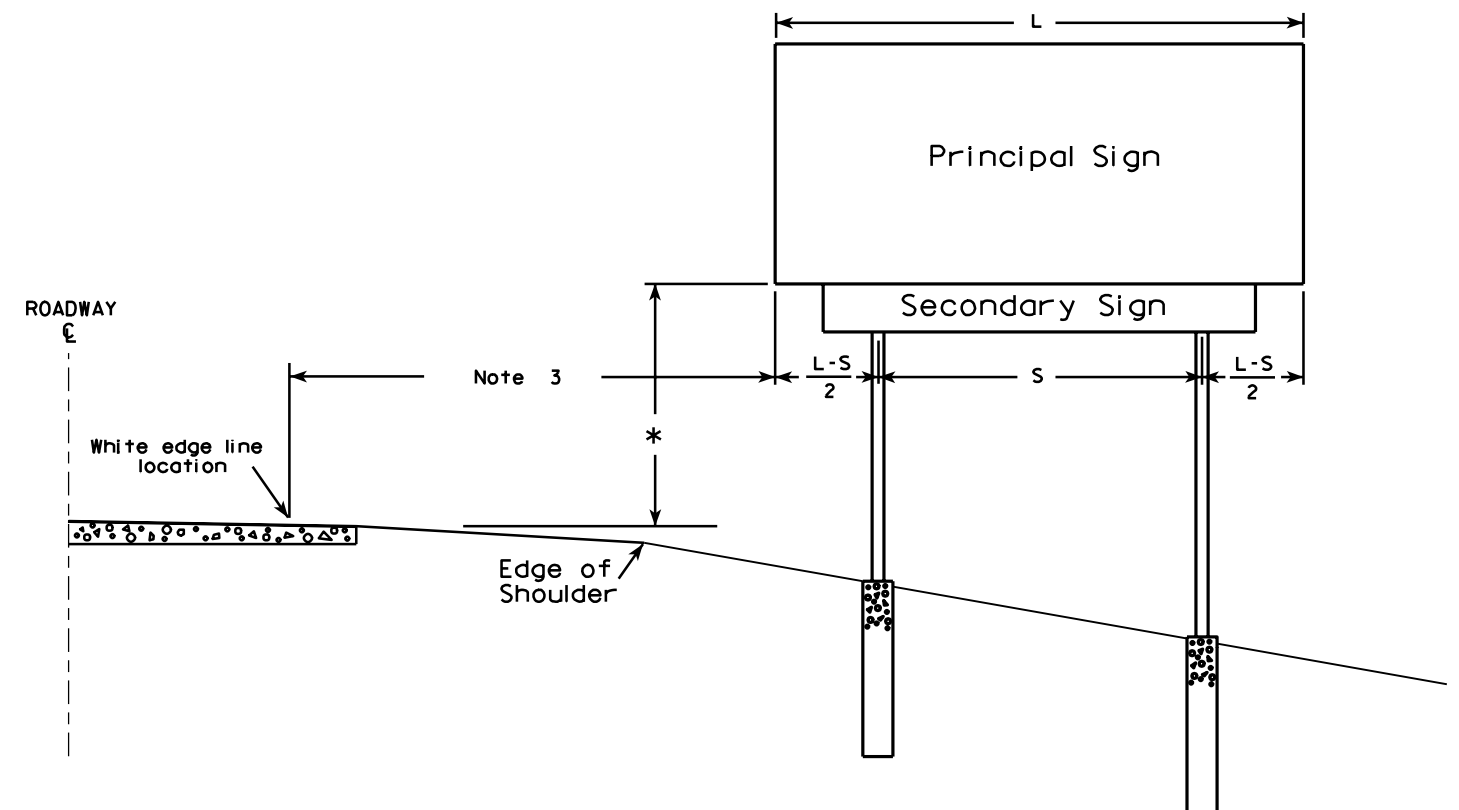
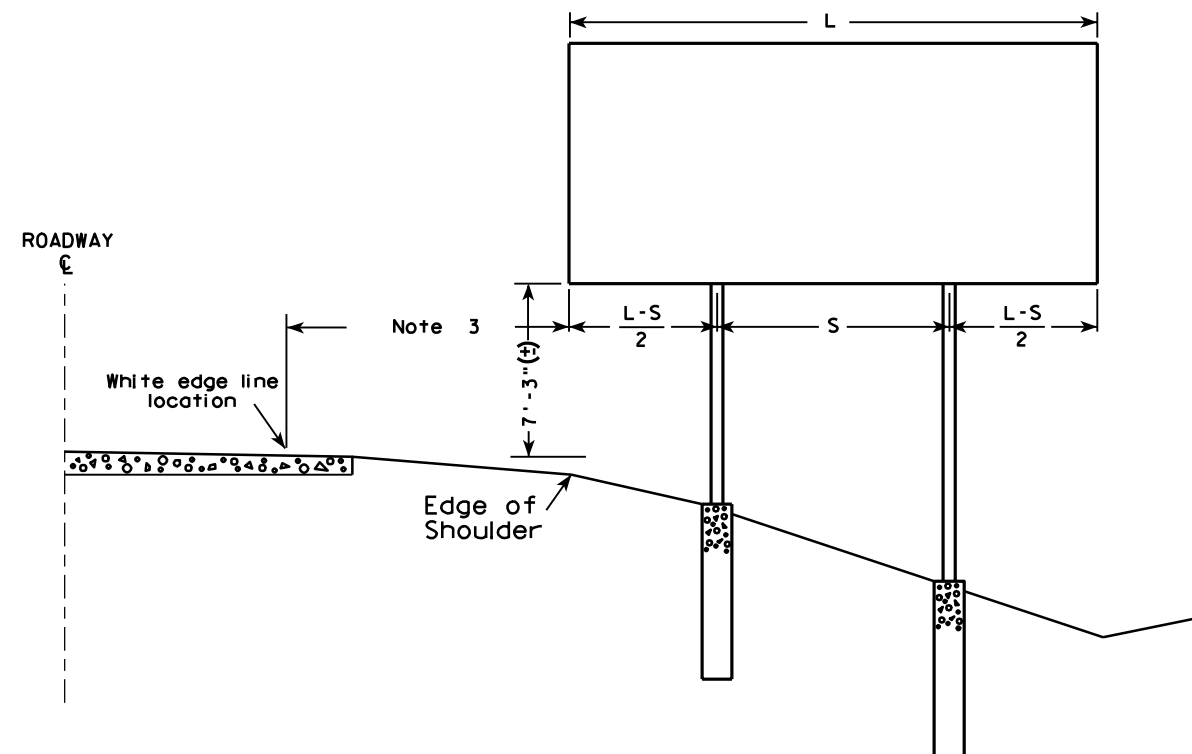
ALTERNATE BREAK-AWAY
BASE ON ROCK
A3-1M

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*

For State Traffic Engineer

DATE 2/06/2014 PL 92 A3-1M.1



GENERAL NOTES

1. For a 2 post installation, S equals $3L/5$, but shall not be less than 9 ft.
2. For a 3 post installation, S equals $5L/7$, but shall not be less than 18 ft., and the space between any two posts shall not be less than 9 ft.
3. Unless noted in the plan, the sign offset distance shall be a minimum of 17'-6", desirable 30'-0".
4. The (±) tolerance shown on this sheet is 3 in.
5. The vertical sign height clearance detailed is measured from the bottom of the sign to the near edge of pavement.
6. Post lengths shown in the miscellaneous quantities are estimated lengths. The contractor shall verify post lengths at the time of final grading.
7. Refer to the Traffic Guidelines Manual for further guidance on minimum vertical clearance requirements.

* Clearance is 8'-3" (±) when the secondary sign is 3 ft. or less in height. For secondary signs larger than 3 ft., the clearance to the bottom of the secondary sign shall be 5'-3" (±).

TYPICAL INSTALLATION OF TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

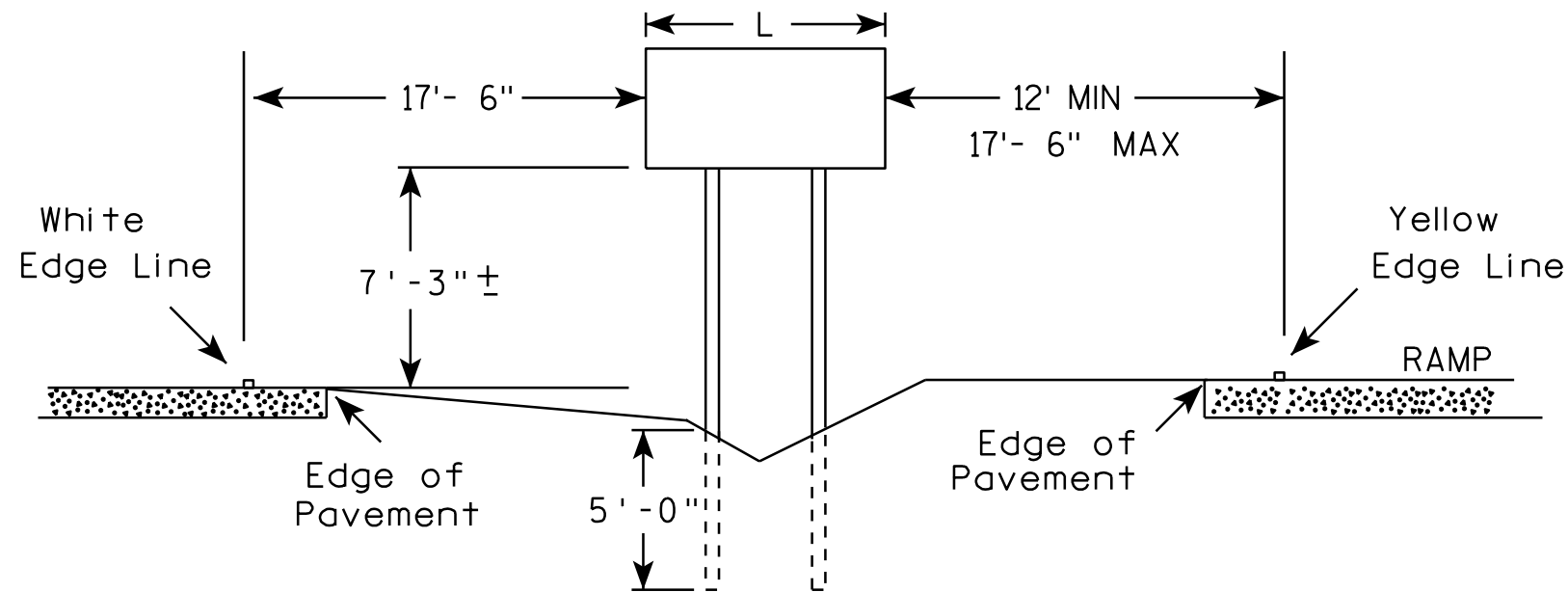
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/02/08 PLATE NO. A4-1.9

PROJECT NO:

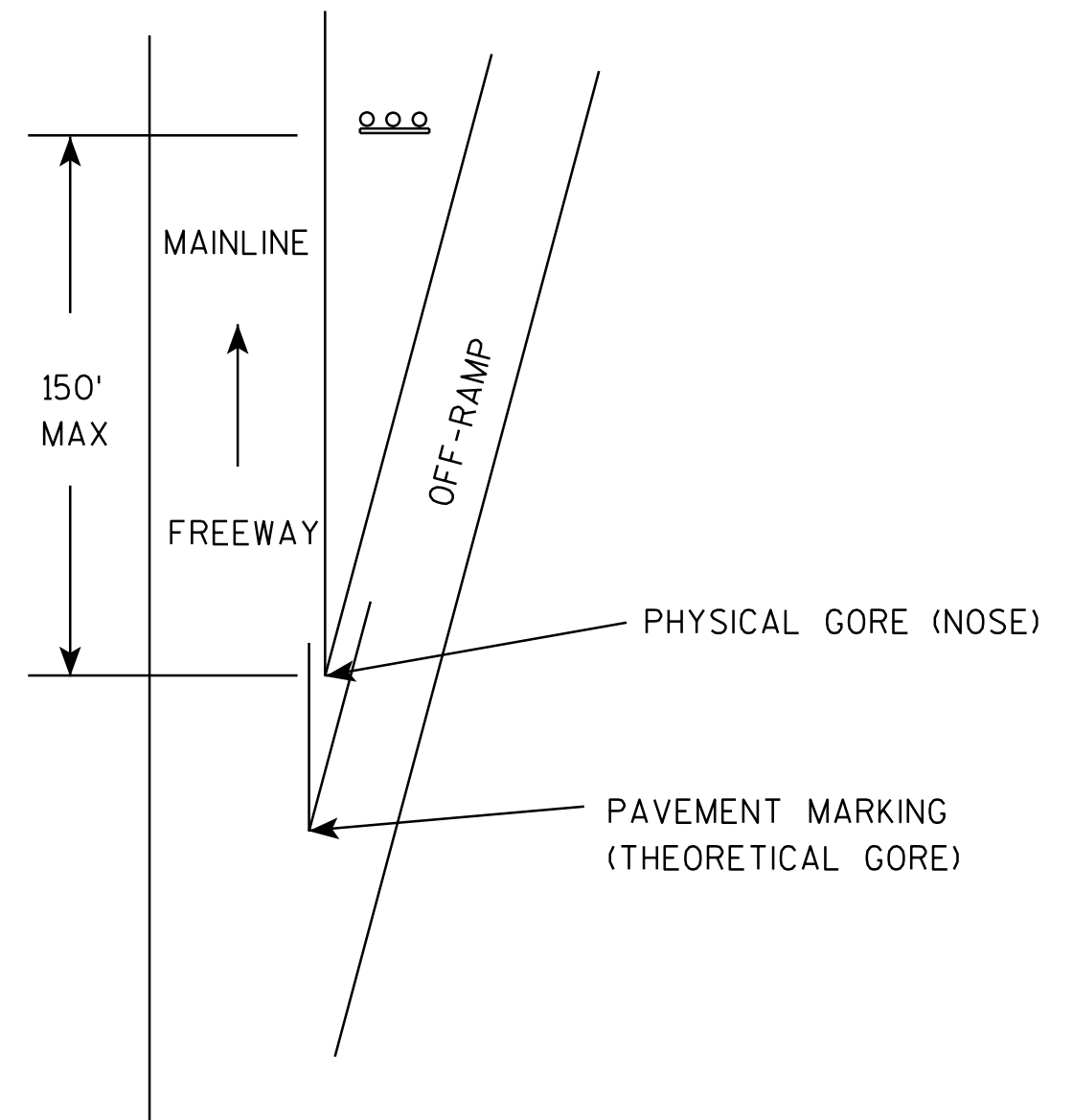
SHEET NO: 93

E



GENERAL NOTES

1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
5. When L is equal to or exceeds 10 feet, use 3 posts as per A4-4.
6. The ($\pm$) tolerance for the mounting height is 3 inches.



TYPICAL INSTALLATION
OF TYPE II SIGNS ON
WOOD POSTS IN GORE

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

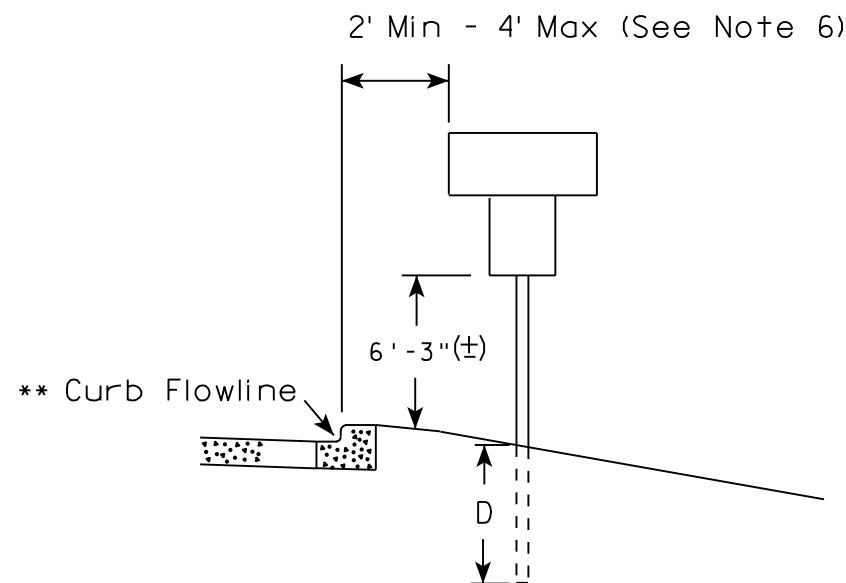
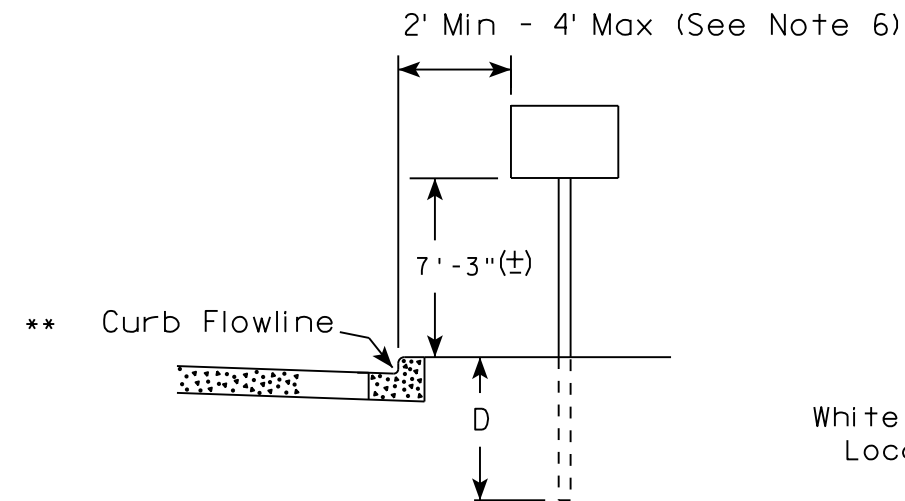
DATE 2/06/14 PLA 94 A4-2.3

PROJECT NO:

SHEET NO:

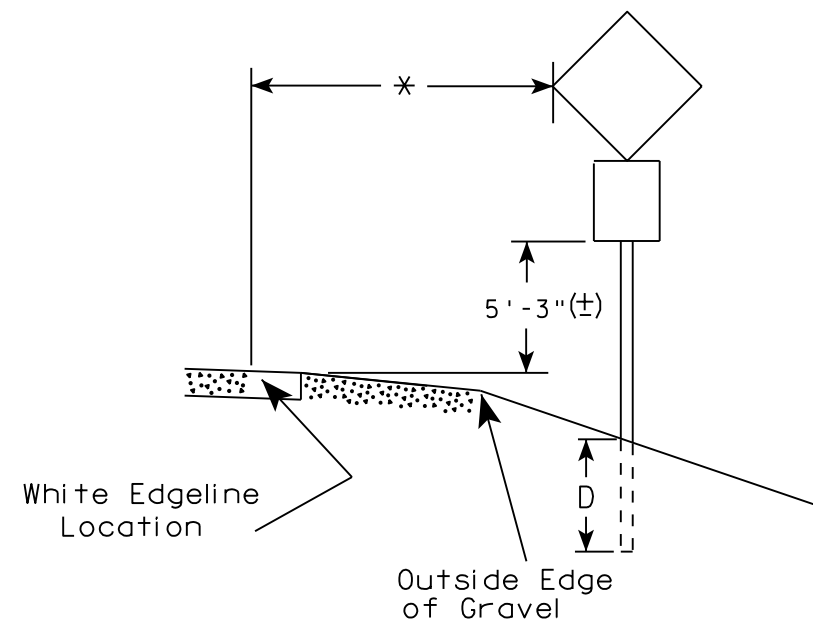
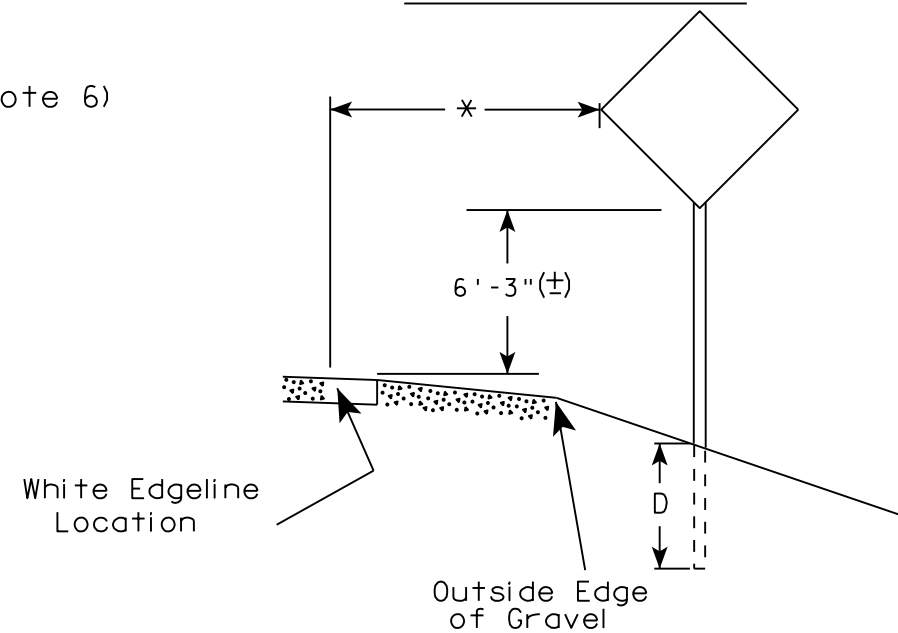
E

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

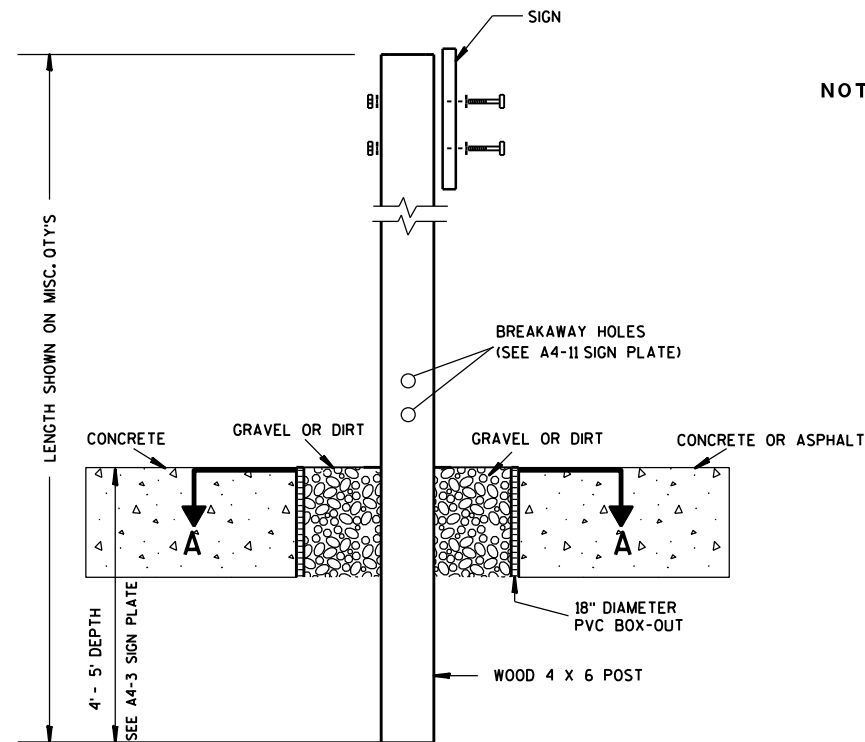
1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies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

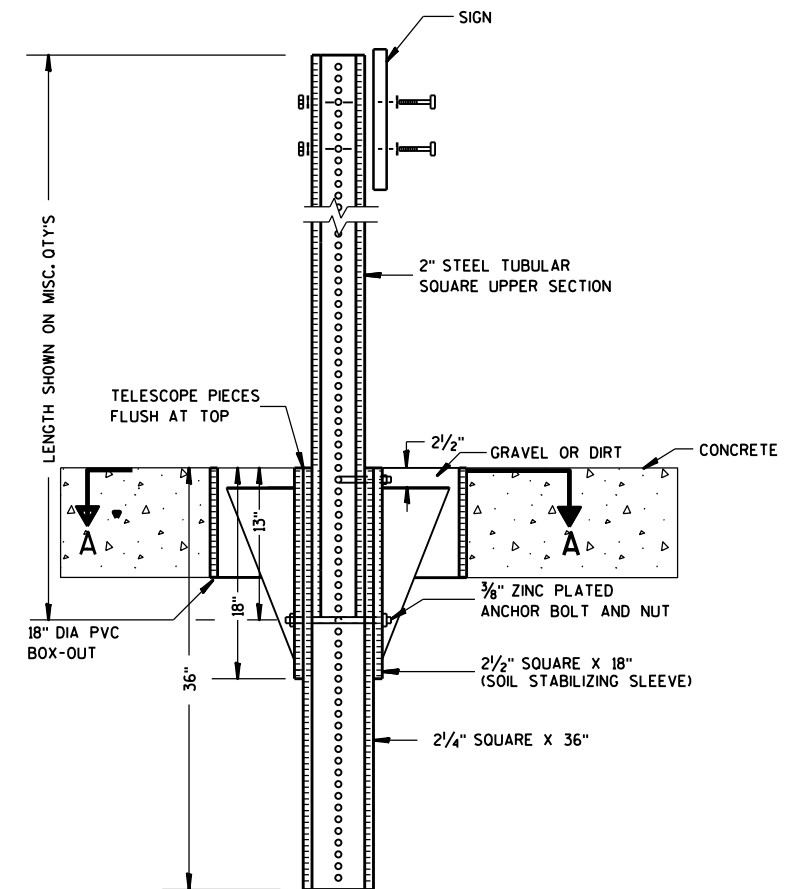
DATE 8/21/17 PLATE NO. A4-3.21



ELEVATION VIEW

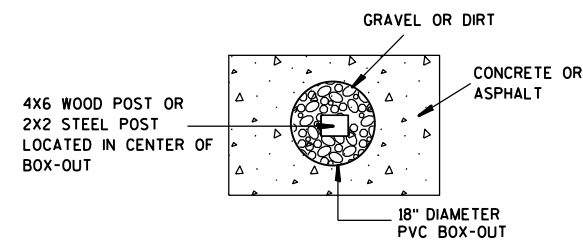
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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 PLAT 96 A4-3B.1

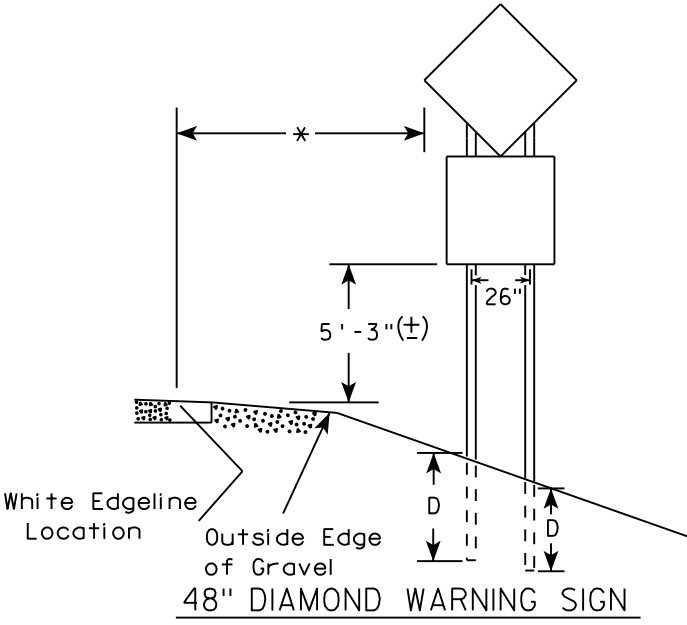
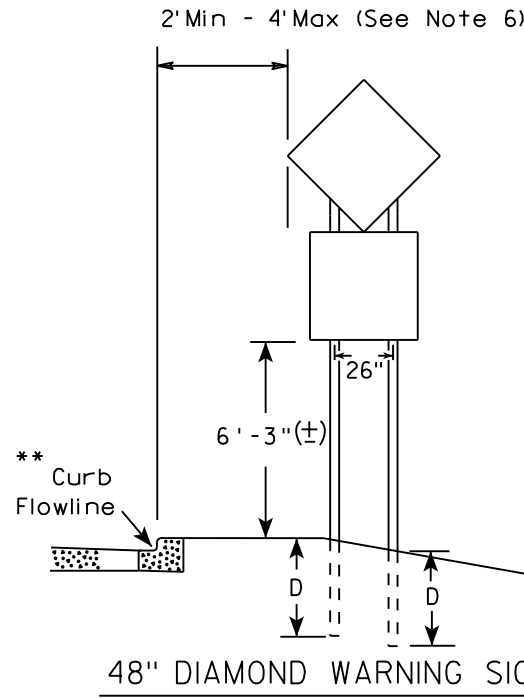
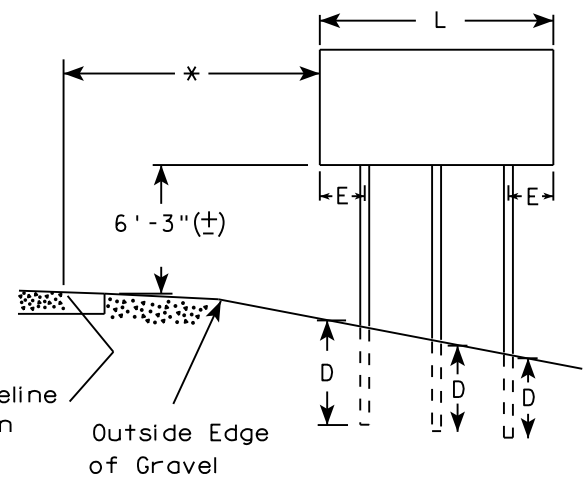
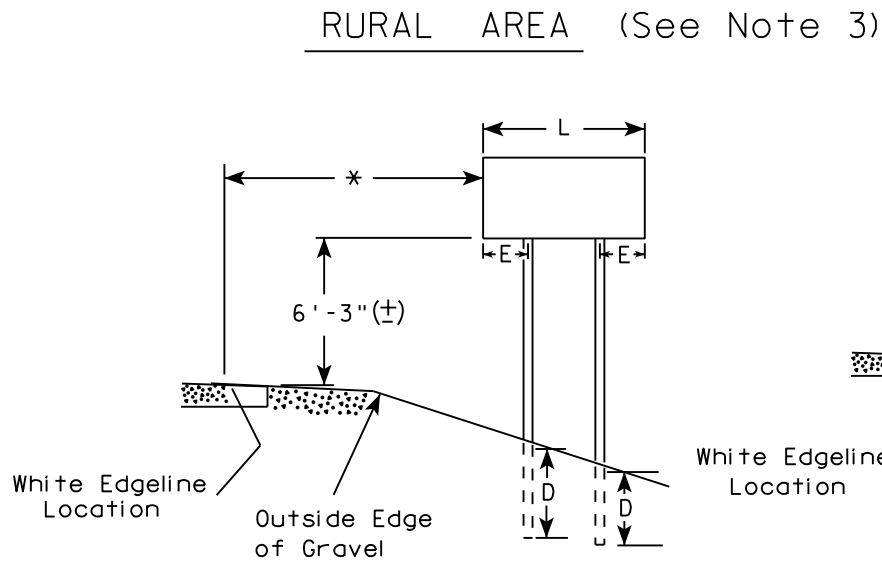
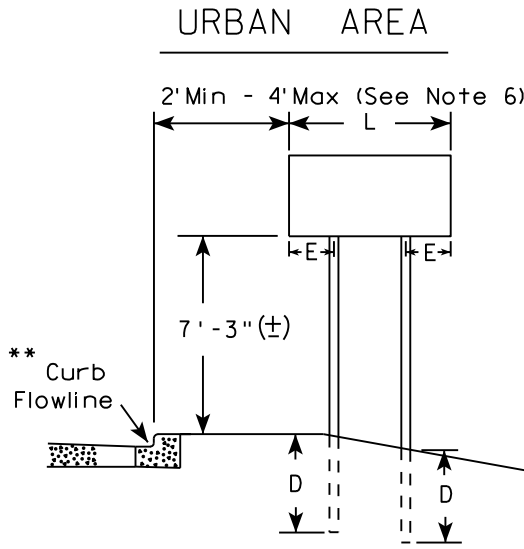
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



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

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

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

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

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

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

POST EMBEDMENT DEPTH

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

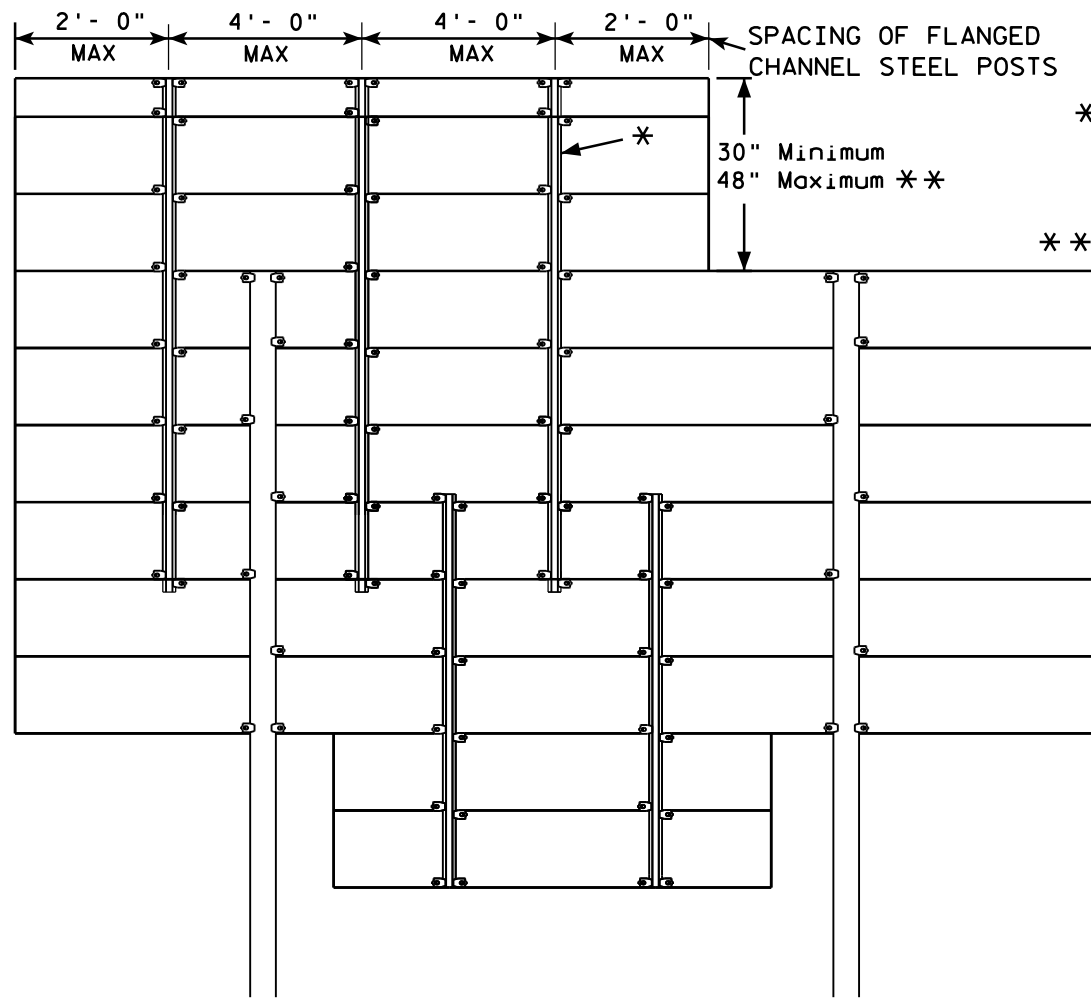
TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

GROUND MOUNTED SIGN

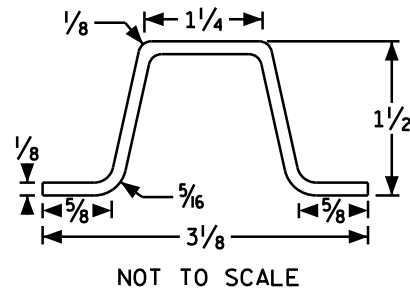


* = 2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

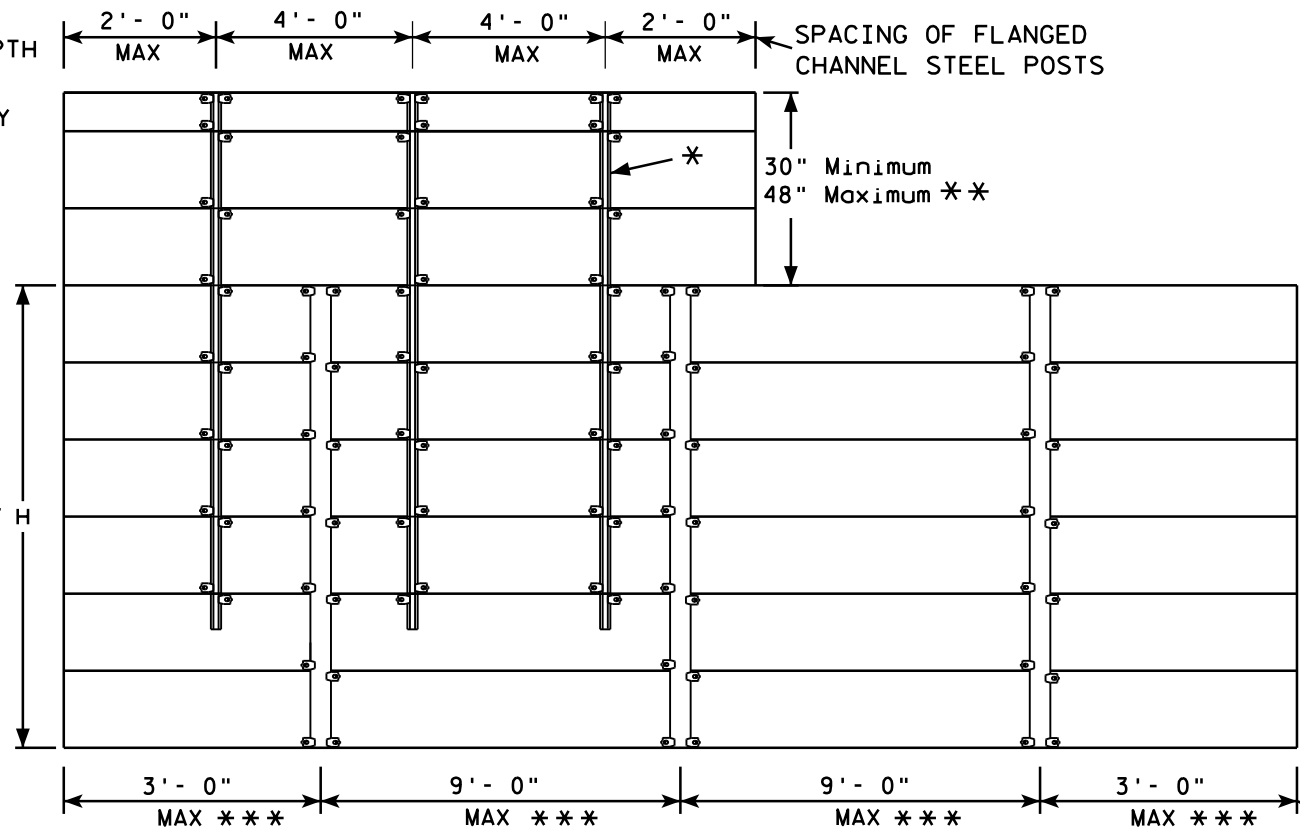
** = FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

*** THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 16 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 16 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAIL



SIGN BRIDGE MOUNTED SIGN



SPACING OF ALUMINUM SIGN SUPPORTS 5" X 3.5" X 3.7 LBS./ft.

GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:
PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
PANEL LENGTH 9'-0" - 12'-0" = 3 CHANNELS
PANEL LENGTH 13'-0" OR MORE = 4 CHANNELS
If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.

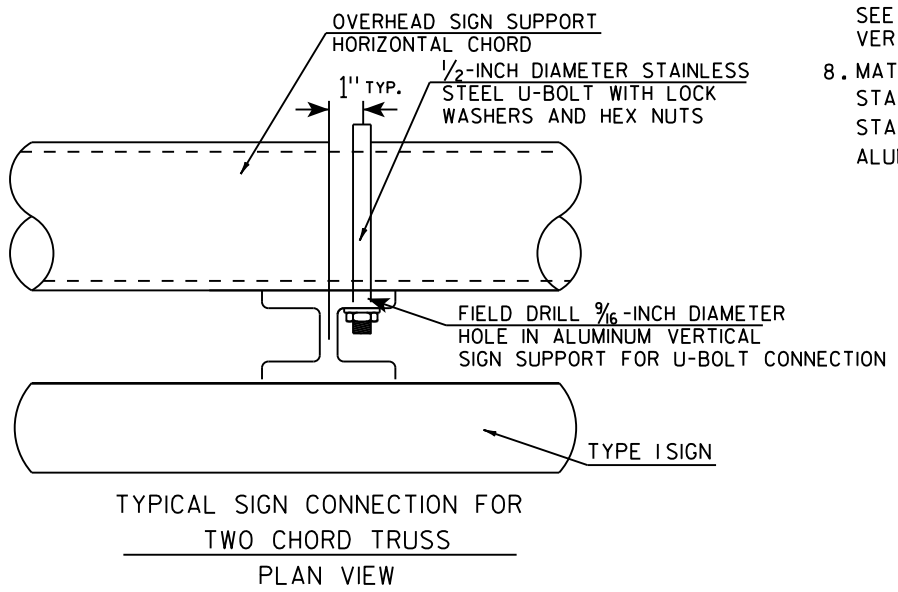
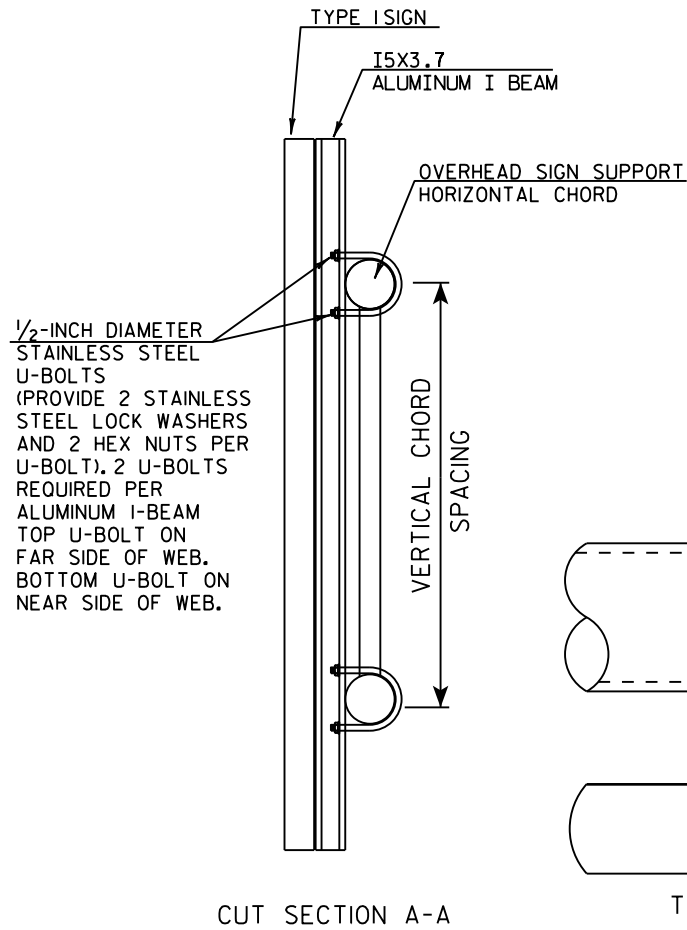
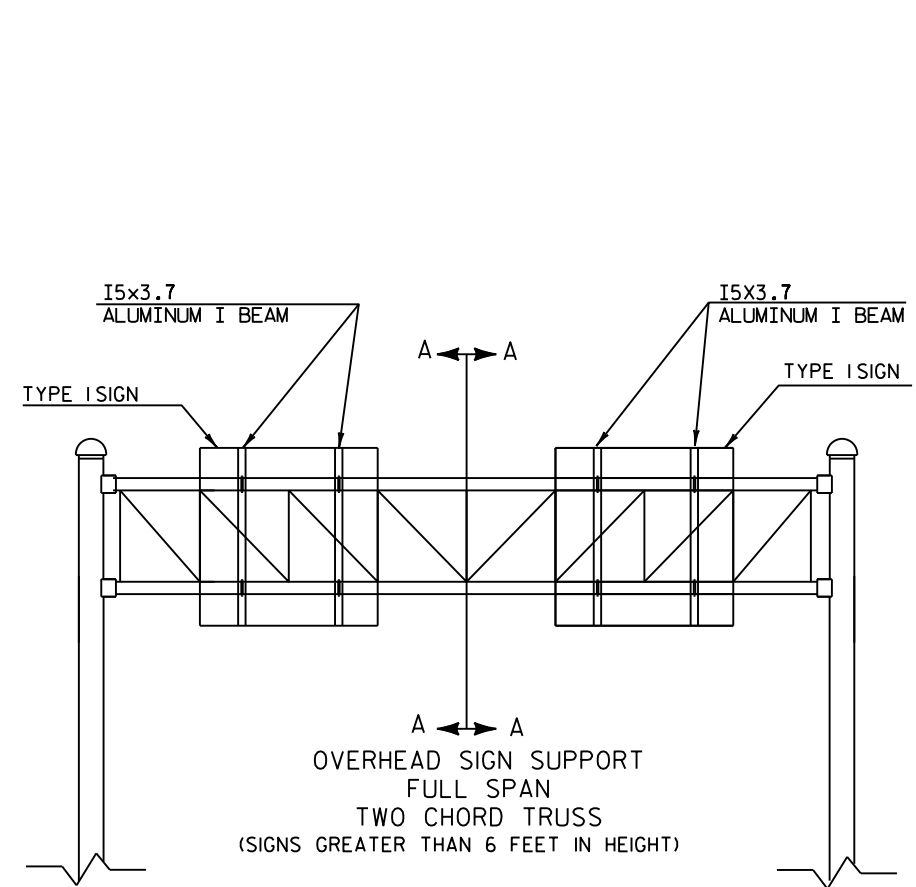
3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)
6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

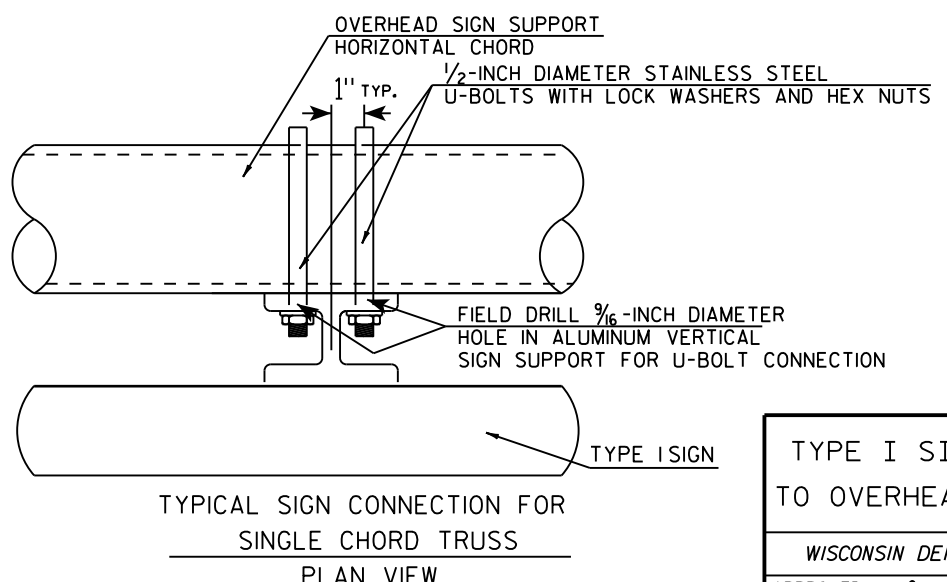
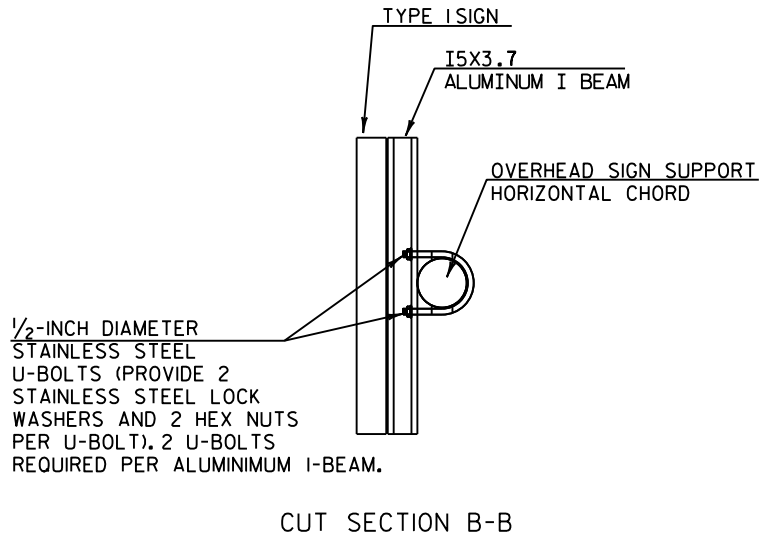
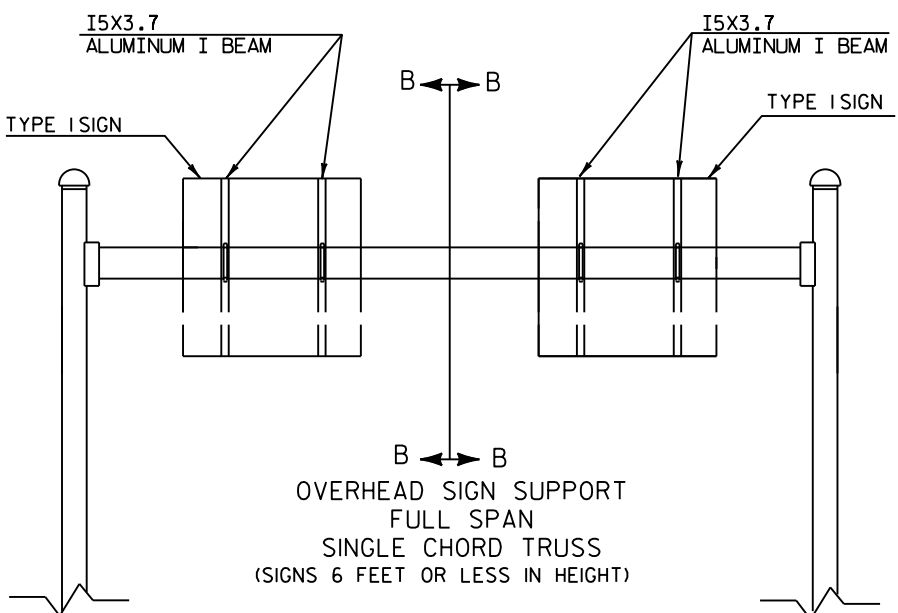
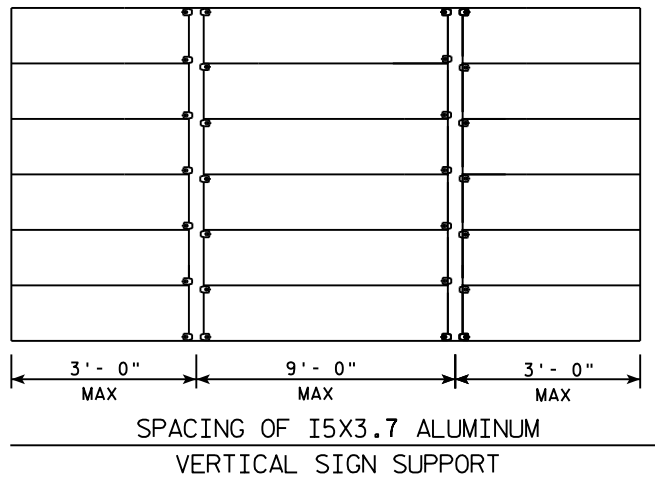
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

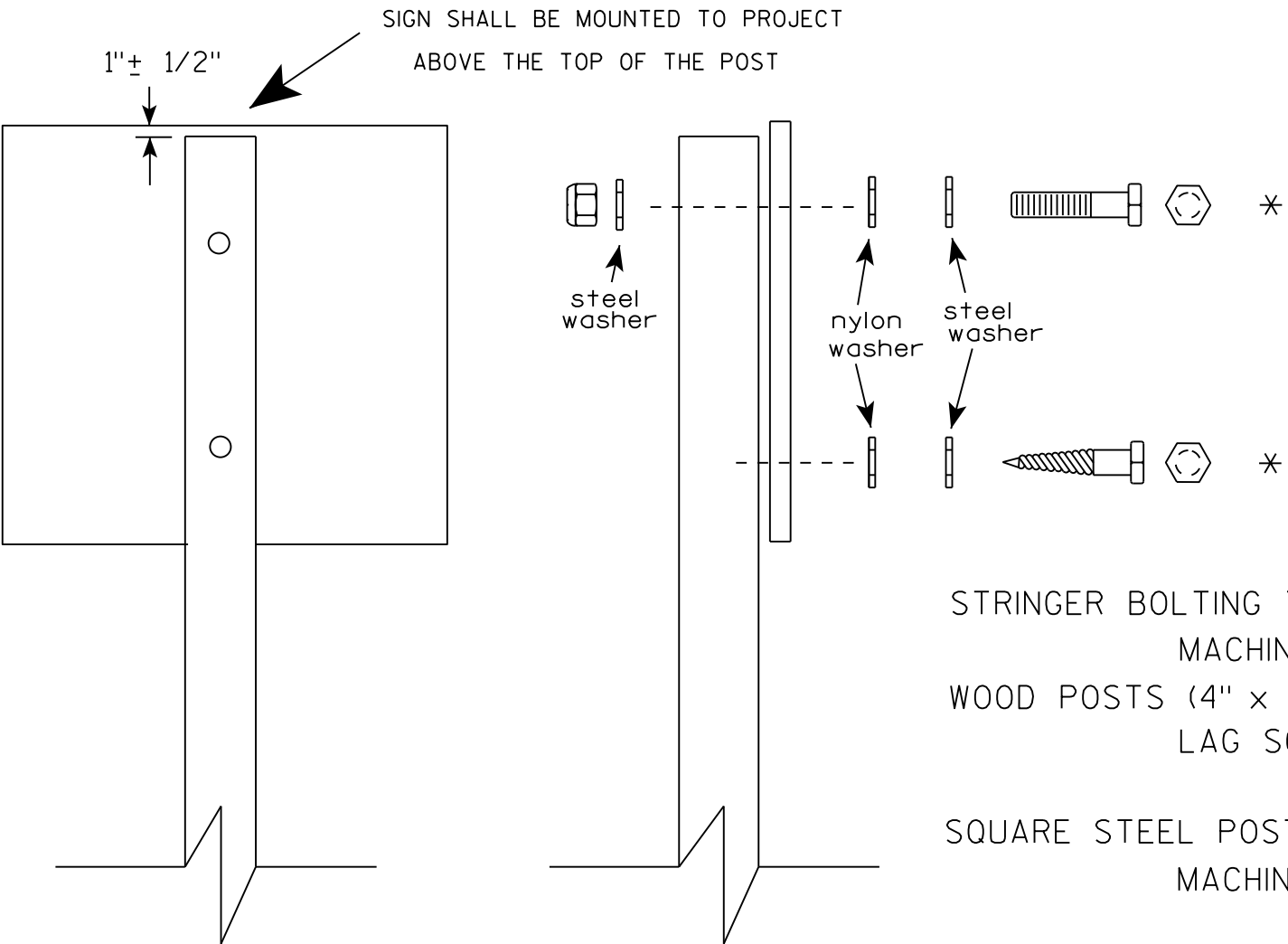
DATE 12/05/13 PLAT 98 ^4-6.12



- GENERAL NOTES**
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
 2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
 3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
 4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
 5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
 6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
 7. MINIMUM NUMBER OF BRACKETS PER SIGN IS TWO. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
 8. MATERIAL NOTES:
STAINLESS STEEL U-BOLTS AND LOCKWASHERS ASTM 304.
STAINLESS STEEL HEX NUTS ASTM A276.
ALUMINUM I-BEAMS ARE 6061-T6.



TYPE I SIGN CONNECTION TO OVERHEAD SIGN SUPPORT	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> State Traffic Engineer
DATE 11/10/15	PLA 99 A4-7.4



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.

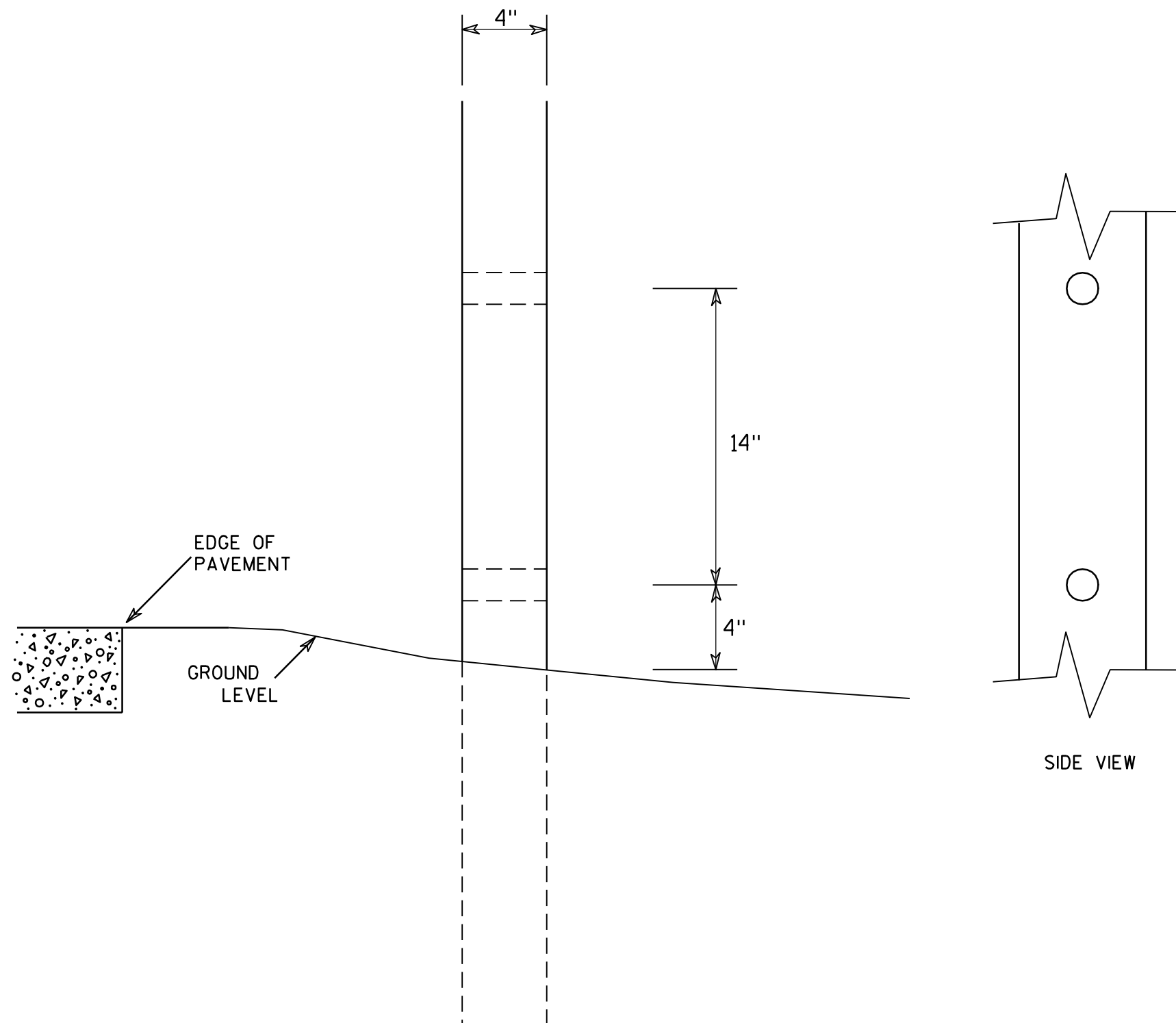
ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 8/11/16 PLATE NO. A4-8.8
100

7



GENERAL NOTES

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

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 101

E

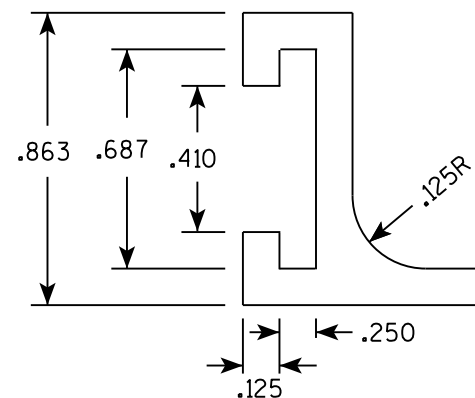
7



Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

DETAIL A (EDGE WRAP JOINT)

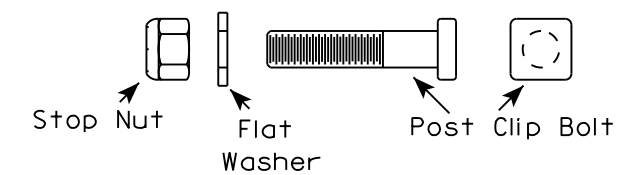
Panel
Stitch
Bolt



Post Clip

Sharp Knurling

Sharp Serrations

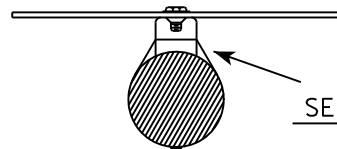
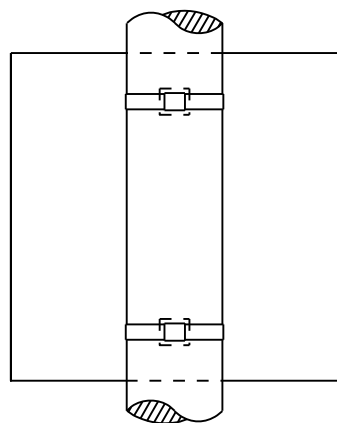


1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
3. Post Clips shall be used to attach the sign panel to the sign support.
4. Edge wrapping of sign sheeting required on all extrusions joints shown in Detail A.

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<u>Matthew R. Rauch</u> for State Traffic Engineer
DATE <u>11/30/16</u>	PLATE NO. <u>A5-2.10</u>

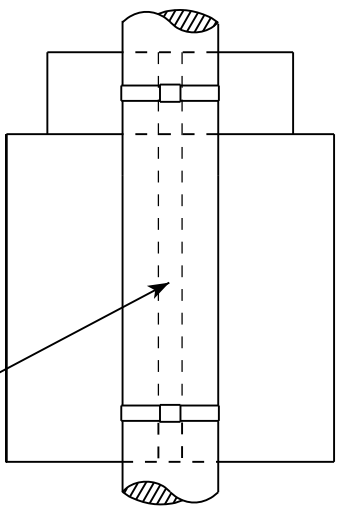
BANDING

SINGLE SIGN

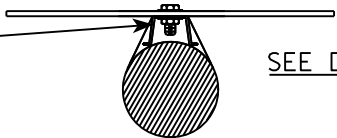


SEE DETAIL A

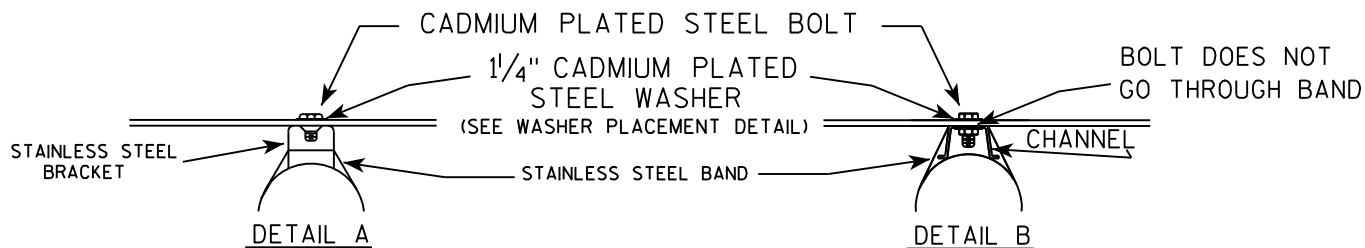
"J" ASSEMBLY



CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET



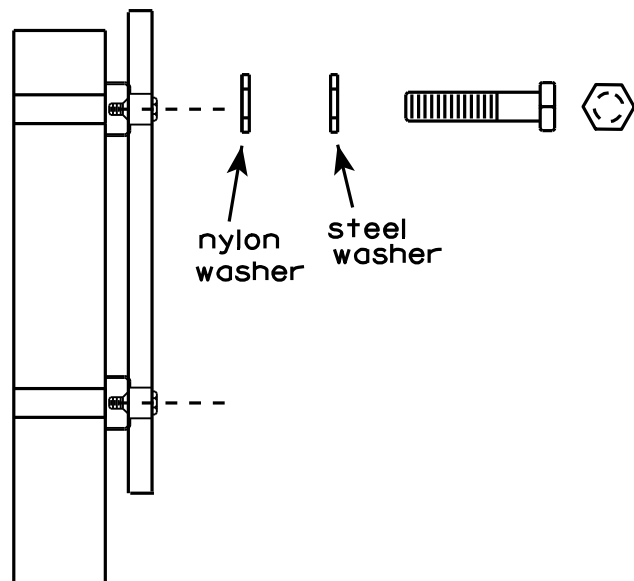
SEE DETAIL B



GENERAL NOTES

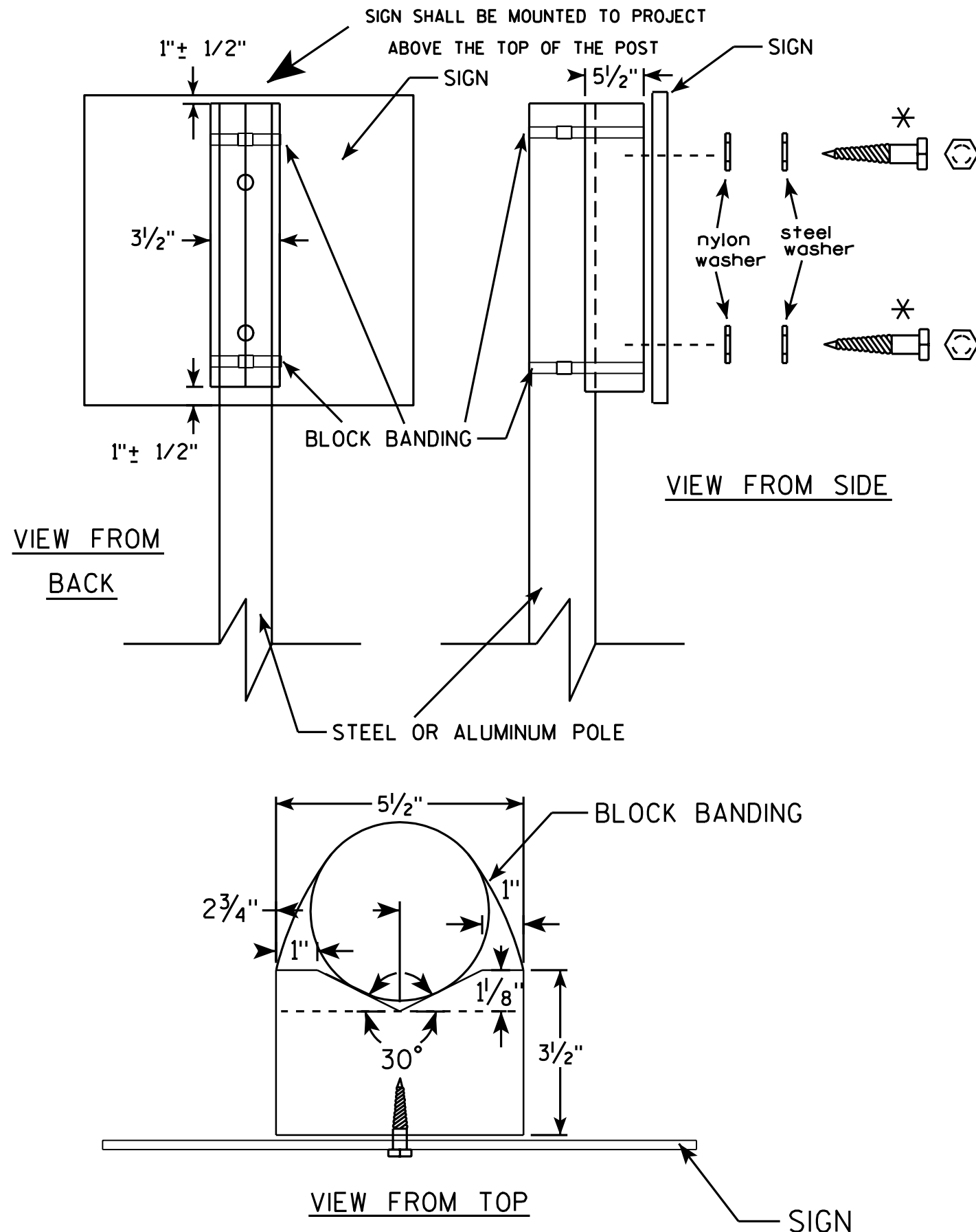
1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel.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

WASHER PLACEMENT



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

STANDARD SIGN SIGN BANDING DETAILS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 8/16/13	PLATE NO. A5-9.3



GENERAL NOTES

1. WOOD 4"x6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " 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 $\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
8. NYLON WASHERS SHALL BE $\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✱ LAG BOLTS SHALL BE $\frac{3}{8}$ " X $2\frac{1}{2}$ "

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

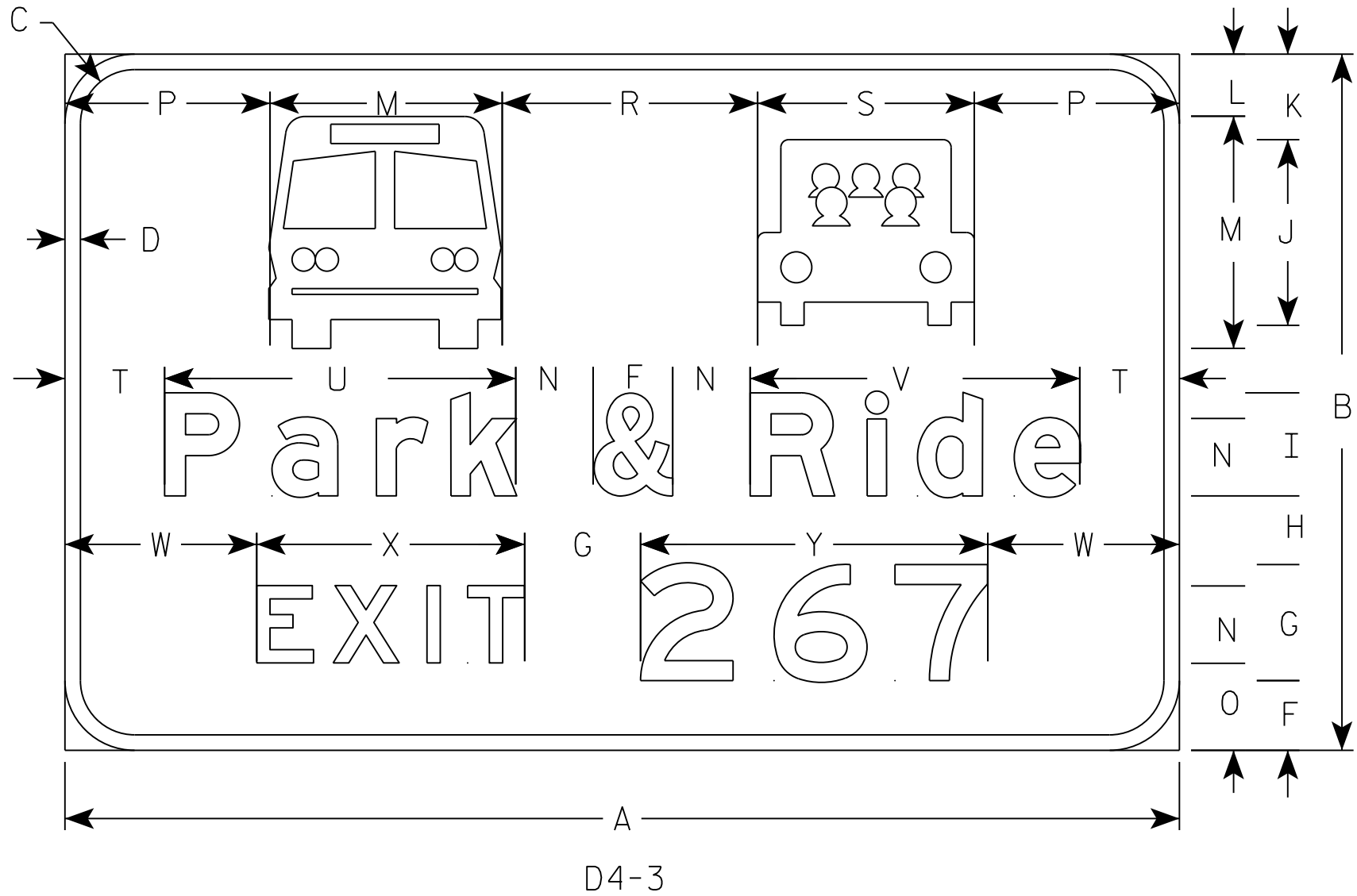
PROJECT NO:

SHEET NO: 104

E

NOTES

- 1. Sign is Type I - Type SH Reflective
- 2. Color:
Background - Green
Message - White
- 3. Message Series - E Modified



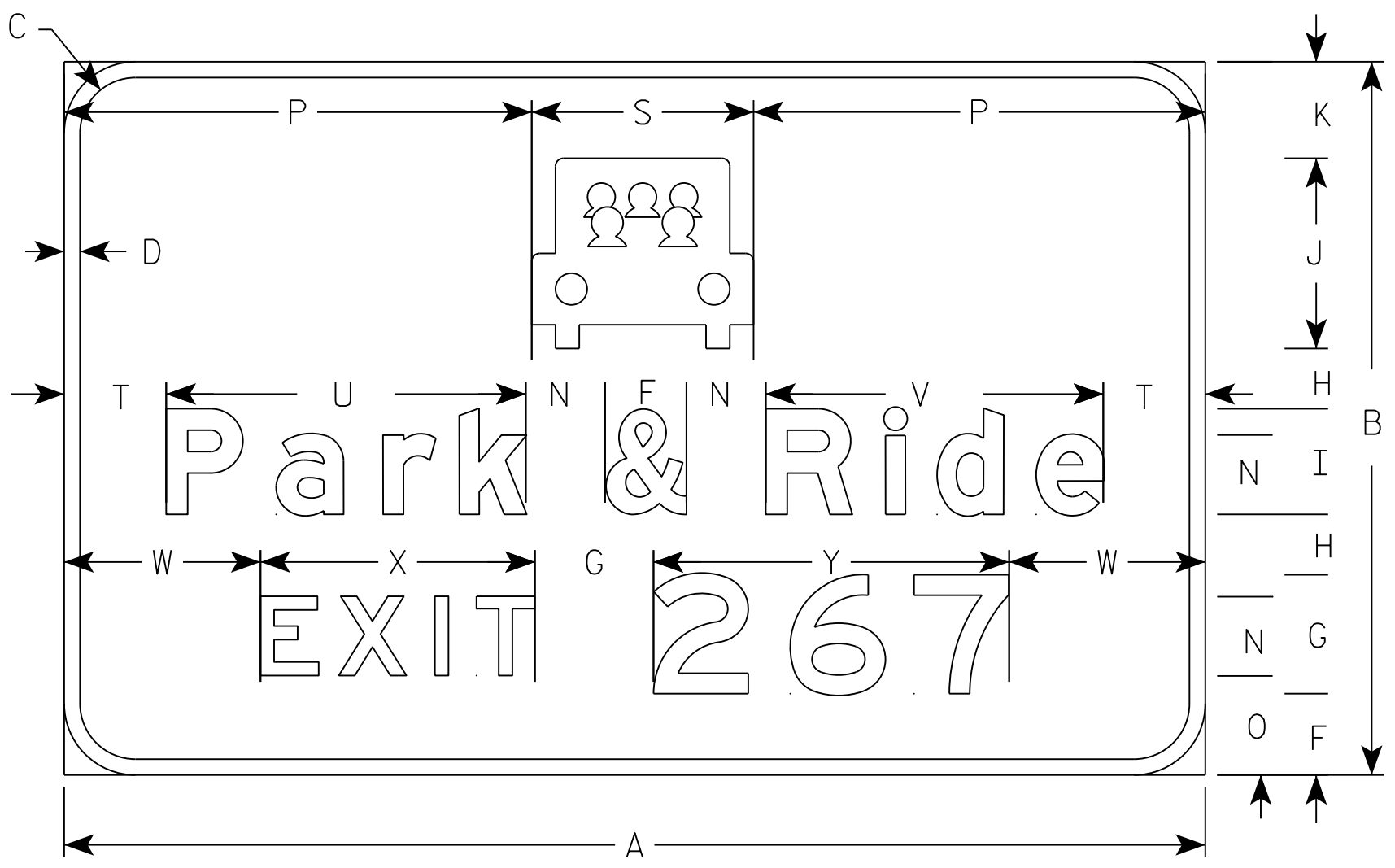
D4-3

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																											
3																											
4	144	90	9	2		9	15	8 ¾	13 ⅝	24	11	8	30	10	11 ¼	26 ½		33	28	12 ⅞	45 ⅜	42 ⅝	24 ¾	34 ⅝	44 ⅞		90.0
5	144	90	9	2		9	15	8 ¾	13 ⅝	24	11	8	30	10	11 ¼	26 ½		33	28	12 ⅞	45 ⅜	42 ⅝	24 ¾	34 ⅝	44 ⅞		90.0

STANDARD SIGN
D4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 2/23/17 PLATE NO. D4-3.3



D4-4

NOTES

- 1. Sign is Type I - Type SH Reflective
- 2. Color:
Background - Green
Message - White
- 3. Message Series - Series E Modified.

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																											
3																											
4	144	90	9	2		10 1/4	15	7 5/8	13 7/8	24	12 1/4			10	12 1/2	58			28	12 7/8	45 3/8	42 5/8	24 3/4	34 5/8	44 7/8		90.0
5	144	90	9	2		10 1/4	15	7 5/8	13 7/8	24	12 1/4			10	12 1/2	58			28	12 7/8	45 3/8	42 5/8	24 3/4	34 5/8	44 7/8		90.0

STANDARD SIGN
D4-4

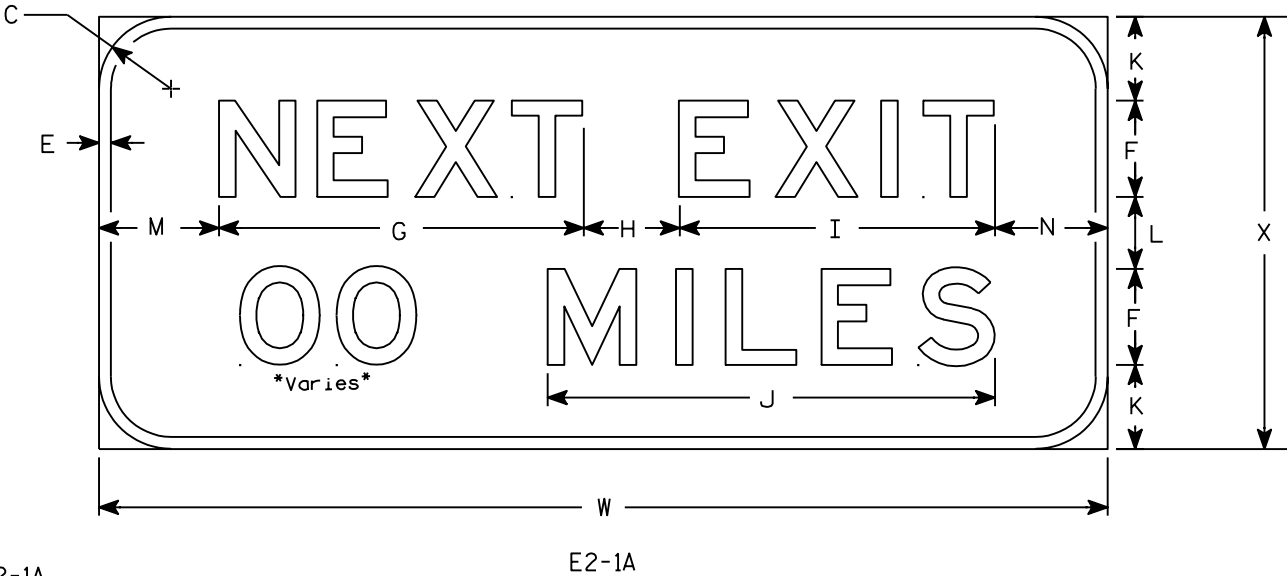
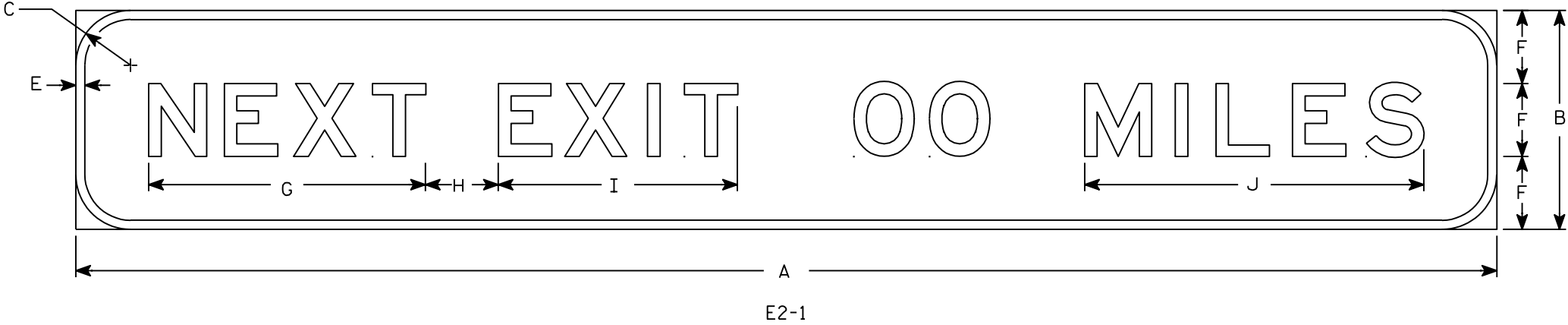
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 3/14/17
PLATE NO. D4-4.3

NOTES

- 1. Sign is Type I - Type SH Reflective
- reference WIS DOT Standard
Specification for ROAD and BRIDGE
CONSTRUCTION latest edition.
- 2. Color:
Background - Green
Message - White
- 3. Message Series - E
- 4. Substitute appropriate numerals
and adjust spacing as required
to achieve proper balance.



7

E2-1
Metric equivalent
for this sign is:

E2-1A
Metric equivalent
for this sign is:

SIZE		SIZE	
1		1	
2		2	
3		3	
4	3900 mm X 600 mm	4	2100 mm X 900 mm
5	3900 mm X 600 mm	5	2100 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	Area sq. ft.	Area sq. ft.	Area sq. m.	Area sq. m.
1																												
2																												
3																												
4	156	24	6		1	8	30 3⁄8	8	26 1⁄4	37 1⁄4	7	6	10	9 3⁄8									84	36	26.0	21.0	2.42	1.95
5	156	24	6		1	8	30 3⁄8	8	26 1⁄4	37 1⁄4	7	6	10	9 3⁄8									84	36	26.0	21.0	2.42	1.95

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 107

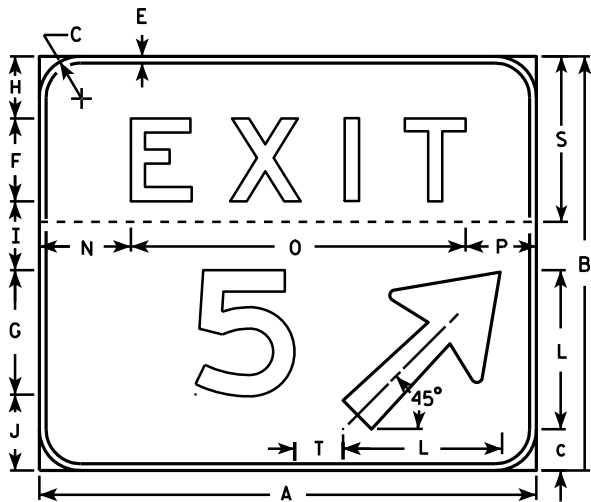
7

STANDARD SIGN
E2-1 & E2-1A

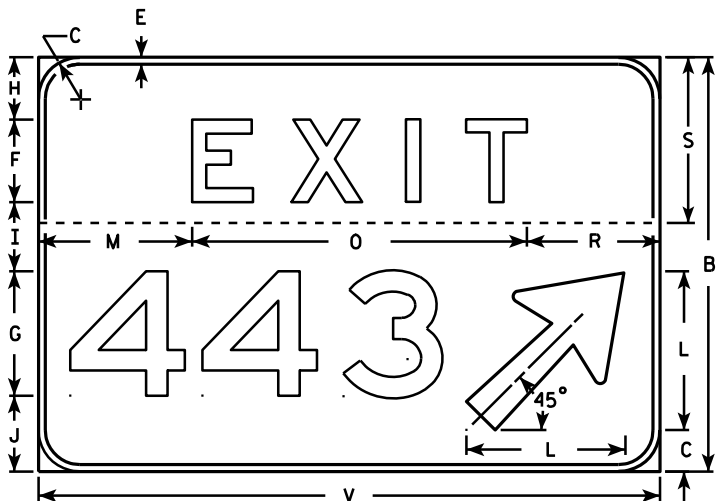
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 12/8/08 PLATE NO. E2-1.5



NOTE: T dimension shall be measured from the back of the number to the front of the arrow



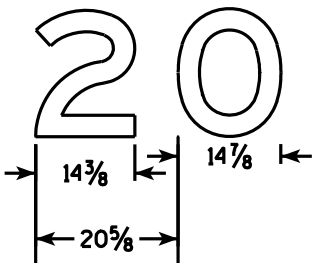
NOTES

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 - E
4. Corners may be square or rounded but the border shall be rounded as shown.
5. Base material for this sign shall be plywood and shall be split into two separate pieces as shown on each detail by the dashed line (-----).
6. Arrow is Type "A" from sign plate A1-1.
7. Substitute appropriate message, space per the table and adjust placement on sign to achieve proper balance.
8. As per the Standard Spec's, these signs shall not have a vertical joint.

SPACING CHART FOR 18" NUMERALS

NUMBERS	WIDTH	0	1	2	3	4	5	6	7	8	9	A	B	C
0	14 7/8	21 5/8	21 5/8	21 1/4	20 3/8	21 1/4	21 1/4	21 5/8	19 7/8	22 1/8	21 5/8			
1	5 7/8	14	14	14	13 1/8	12 1/8	14	14	12 1/4	14	14			
2	14 3/8	20 5/8	21 1/8	20 5/8	19 3/4	20 1/4	20 5/8	20 5/8	18 7/8	21 1/8	20 5/8			
3	14 3/8	20 3/4	21 1/8	20 3/4	20 1/4	19 3/4	20 3/4	20 3/4	19 3/8	21 1/8	20 3/4			
4	16 5/8	22 7/8	22	22 1/2	21 5/8	21 5/8	22 7/8	22 7/8	20 5/8	23 3/8	22 7/8			
5	14 1/4	20 5/8	20 5/8	20 1/8	18 3/4	18 3/4	20 5/8	20 5/8	18 3/8	20 5/8	20 5/8			
6	14 1/2	21 1/4	20 3/4	20 3/4	19 7/8	19 1/2	20 3/8	20 3/4	19	20 3/4	20 3/8			
7	14 3/8	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4			
8	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8			
9	14 1/2	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4			
A	18	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4	21 5/8	23 7/8	23
B	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8	19 1/2	22 3/8	21 1/2
C	14 1/4	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4	18 3/8	21	19 3/4

EXAMPLE FOR USING SPACING CHART



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
2																										
3																										
4																										
5	72	60	6		1	12	18	9	10	11	8 ⁷ / ₈	23	22 ¹ / ₄	13 ¹ / ₄	48 ¹ / ₂	10 ¹ / ₄		19 ¹ / ₄	24	7		90		96	7 ¹ / ₂	

1-2 Digit Bid Area	3 Digit Bid Area
Sq. Ft.	
30	37.5

STANDARD SIGN
E5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 5/11/10 PLATE NO. E5-1A.12

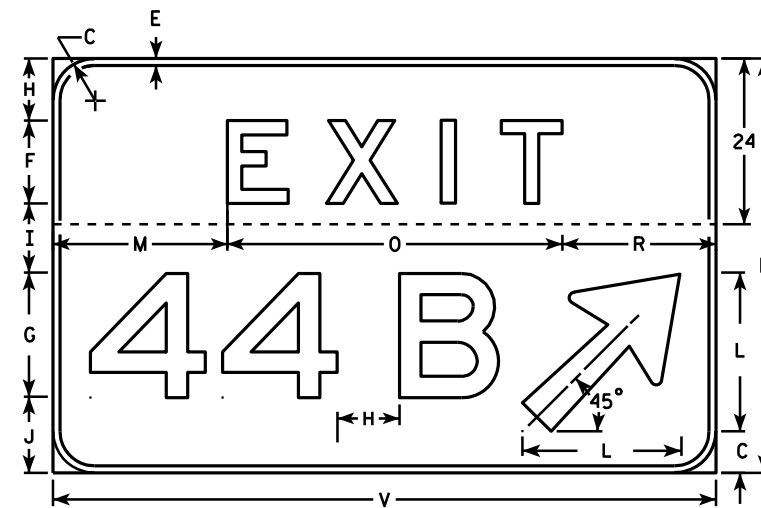
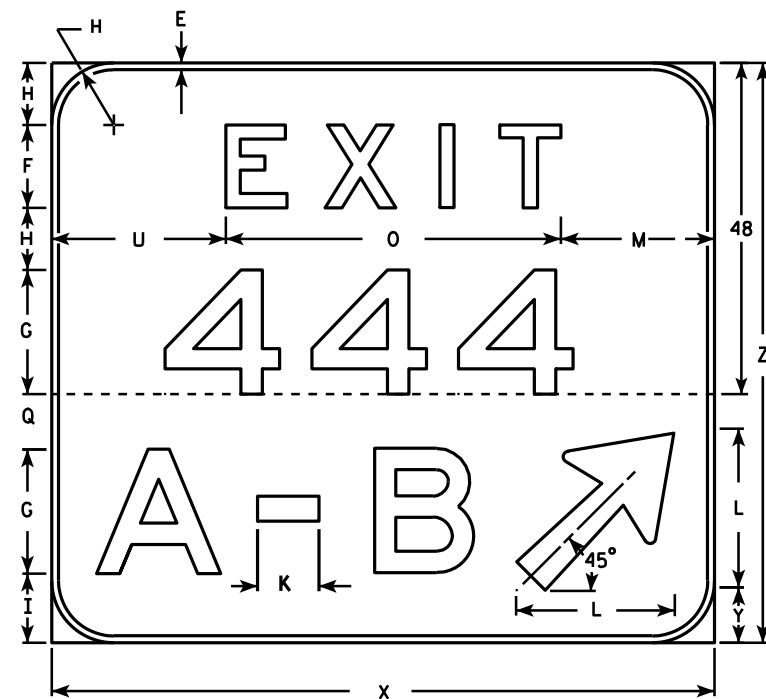
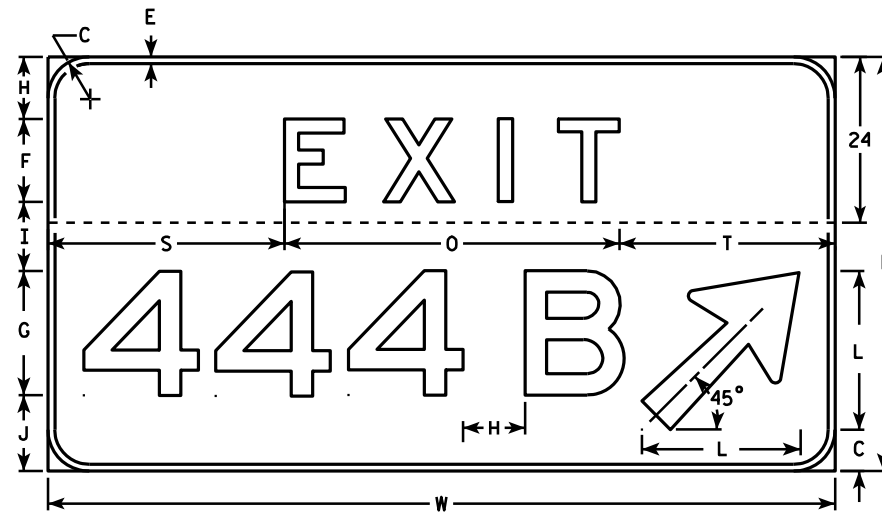
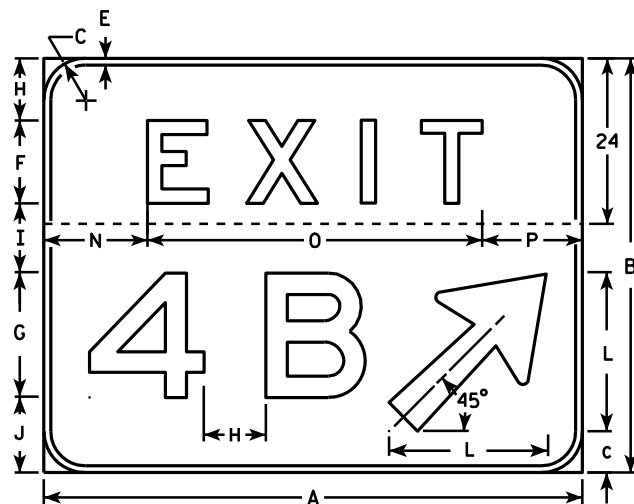
PROJECT NO:

HWY:

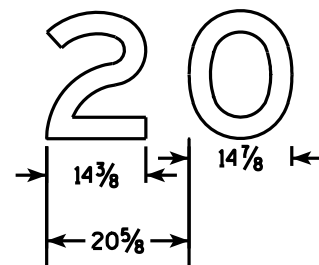
COUNTY:

SHEET NO: 108

E



EXAMPLE FOR USING
SPACING CHART



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 - E
4. Corners may be square or rounded but the border shall be rounded as shown.
5. Base material for this sign shall be plywood and shall be split into two separate pieces as shown on each detail by the dashed line (-----).
6. Arrow is Type "A" from sign plate A1-1.
7. Substitute appropriate message, space per the table and adjust placement on sign to achieve proper balance.
8. When two letters are hyphenated, the distance between them should be equal to two letter heights and the hyphen is spaced optically between them.
9. As per the Standard Spec's, these signs shall not have a vertical joint.

SPACING CHART FOR 18" NUMERALS

NUMBERS	WIDTH	0	1	2	3	4	5	6	7	8	9	A	B	C
0	14 7/8	21 5/8	21 5/8	21 1/4	20 3/8	21 1/4	21 1/4	21 5/8	19 7/8	22 1/8	21 5/8	19 7/8	22 1/8	22 1/8
1	5 7/8	14	14	14	13 1/8	12 1/8	14	14	12 1/4	14	14	9 7/8	14	14
2	14 3/8	20 5/8	21 1/8	20 5/8	19 3/4	20 1/4	20 5/8	20 5/8	18 7/8	21 1/8	20 5/8	20 1/4	21 1/8	21 1/8
3	14 3/8	20 3/4	21 1/8	20 3/4	20 1/4	19 3/4	20 3/4	20 3/4	19 3/8	21 1/8	20 3/4	20 1/4	21 1/8	21 1/8
4	16 5/8	22 7/8	22	22 1/2	21 5/8	21 5/8	22 7/8	22 7/8	20 5/8	23 3/8	22 7/8	22 1/2	25 1/2	23 3/8
5	14 1/4	20 5/8	20 5/8	20 1/8	18 3/4	18 3/4	20 5/8	20 5/8	18 3/8	20 5/8	20 5/8	19 1/4	20 5/8	20 5/8
6	14 1/2	21 1/4	20 3/4	20 3/4	19 7/8	19 1/2	20 3/8	20 3/4	19	20 3/4	20 3/8	18	20 3/4	20 3/4
7	14 3/8	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4	20 1/4	20 5/8	20 5/8
8	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8	19 1/4	21 1/2	21 1/2
9	14 1/2	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4	18	21 3/4	21 3/4
A	18	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4	21 5/8	23 7/8	23
B	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8	19 1/2	22 3/8	21 1/2
C	14 1/4	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4	18 3/8	21	19 3/4

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
2																										
3																										
4																										
5	78	60	6		1	12	18	9	10	11	8 7/8	23	25 1/4	15	48 1/2	14 1/2	8	22 1/4	34 1/4	31 1/4	25 1/4	96	114	96	7 1/2	84

2 Digit Bid Area	3 Digit Bid Area	4 Digit Bid Area	5 Digit Bid Area
Sq. Ft.			
32.5	40.0	47.5	56.0

STANDARD SIGN E5-1B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/8/10 PLATE NO. E5-1B.12

PROJECT NO:

HWY:

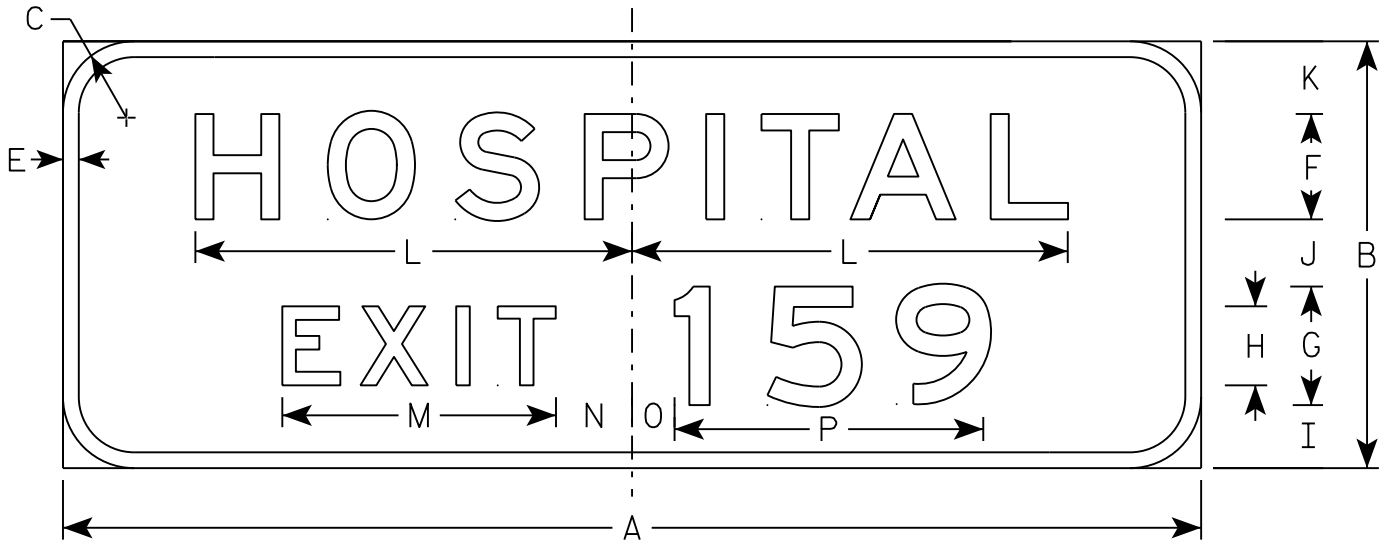
COUNTY:

SHEET NO: 109

E

NOTES

- 1. Sign is Type I - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Blue
Message - White
- 3. Message Series - E
- 4. Apply proper Exit Numbers and letters, optically adjust spacing to achieve proper balance.



E10-61

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																											
3																											
4	144	54	9		2	13 ³ / ₈	15	10	8	8 ¹ / ₂	9 ¹ / ₄	55 ¹ / ₄	34 ⁵ / ₈	9 ⁵ / ₈	5 ³ / ₈	39											54
5	144	54	9		2	13 ³ / ₈	15	10	8	8 ¹ / ₂	9 ¹ / ₄	55 ¹ / ₄	34 ⁵ / ₈	9 ⁵ / ₈	5 ³ / ₈	39											54

TYPICAL SIGNS

E10-61

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

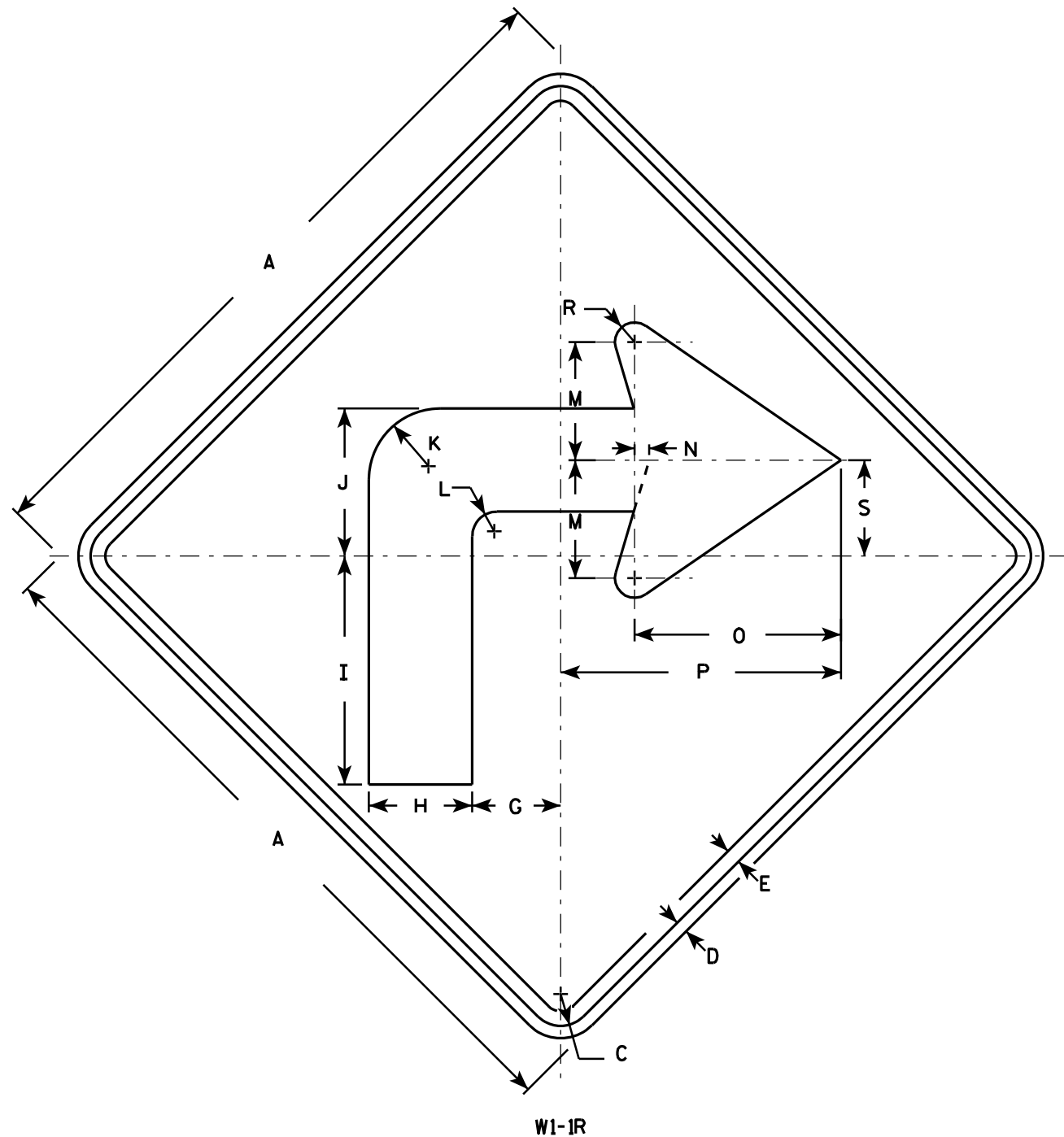
Matthew R. Rauch

for State Traffic Engineer

DATE 9/24/15

PLATE NO. E10-61.3

110



NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		3	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
2S	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
2M	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
3	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0

STANDARD SIGN

W1-1

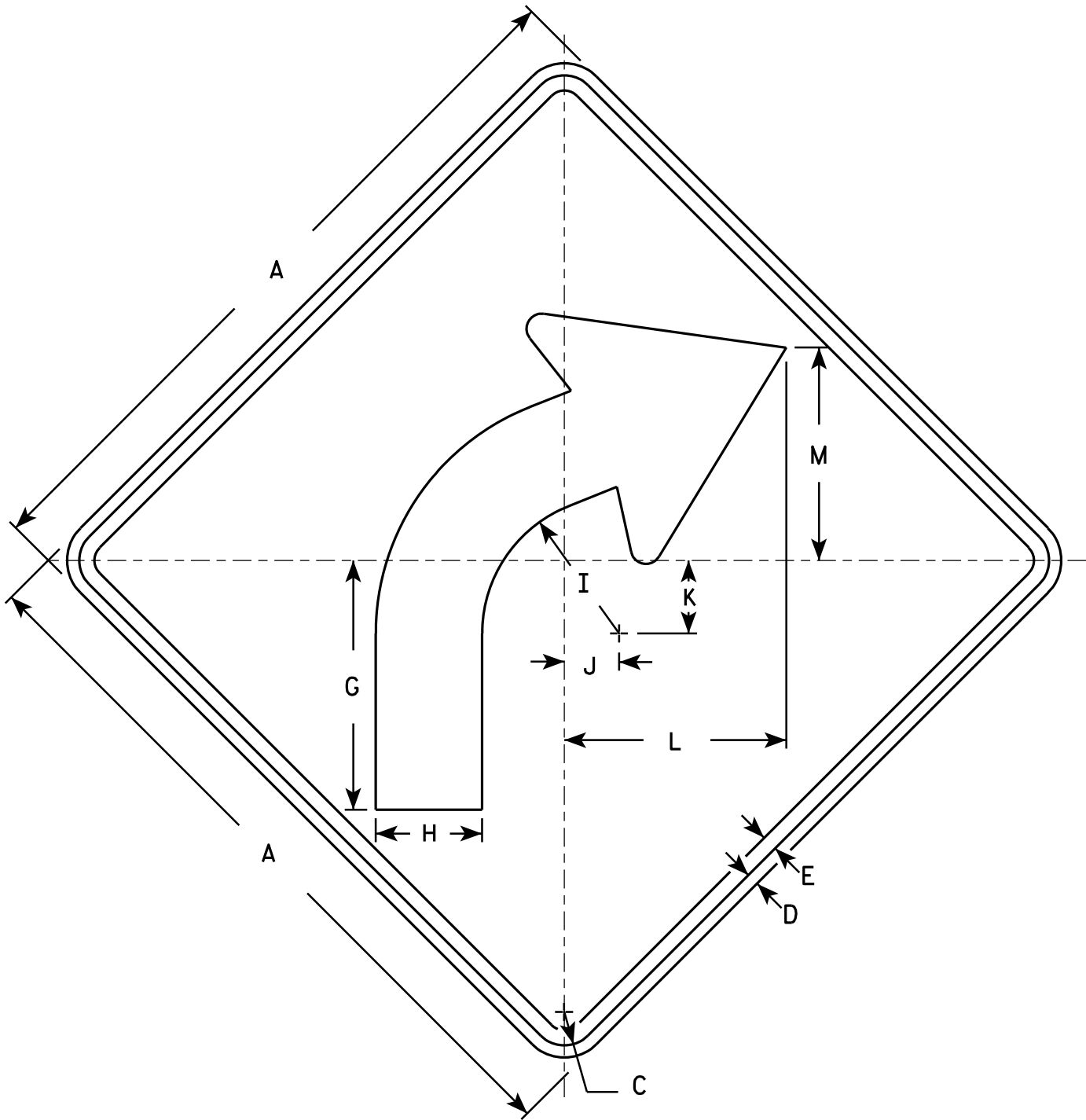
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

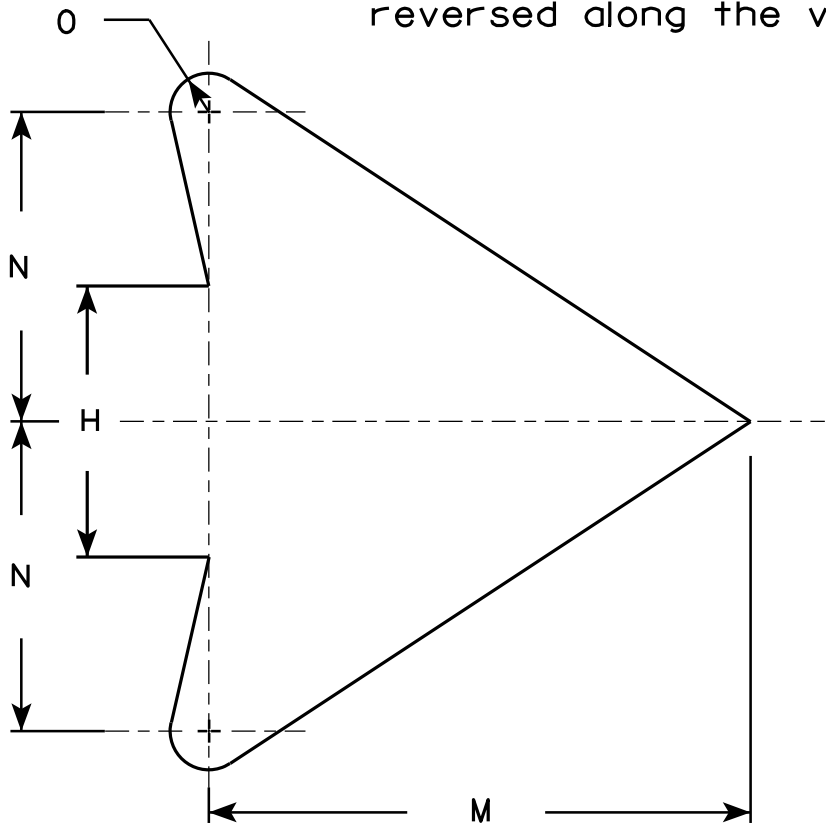
DATE 5/15/12 PLATE NO. W1-1.11

NOTES

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



W1-2R



ARROW DETAIL

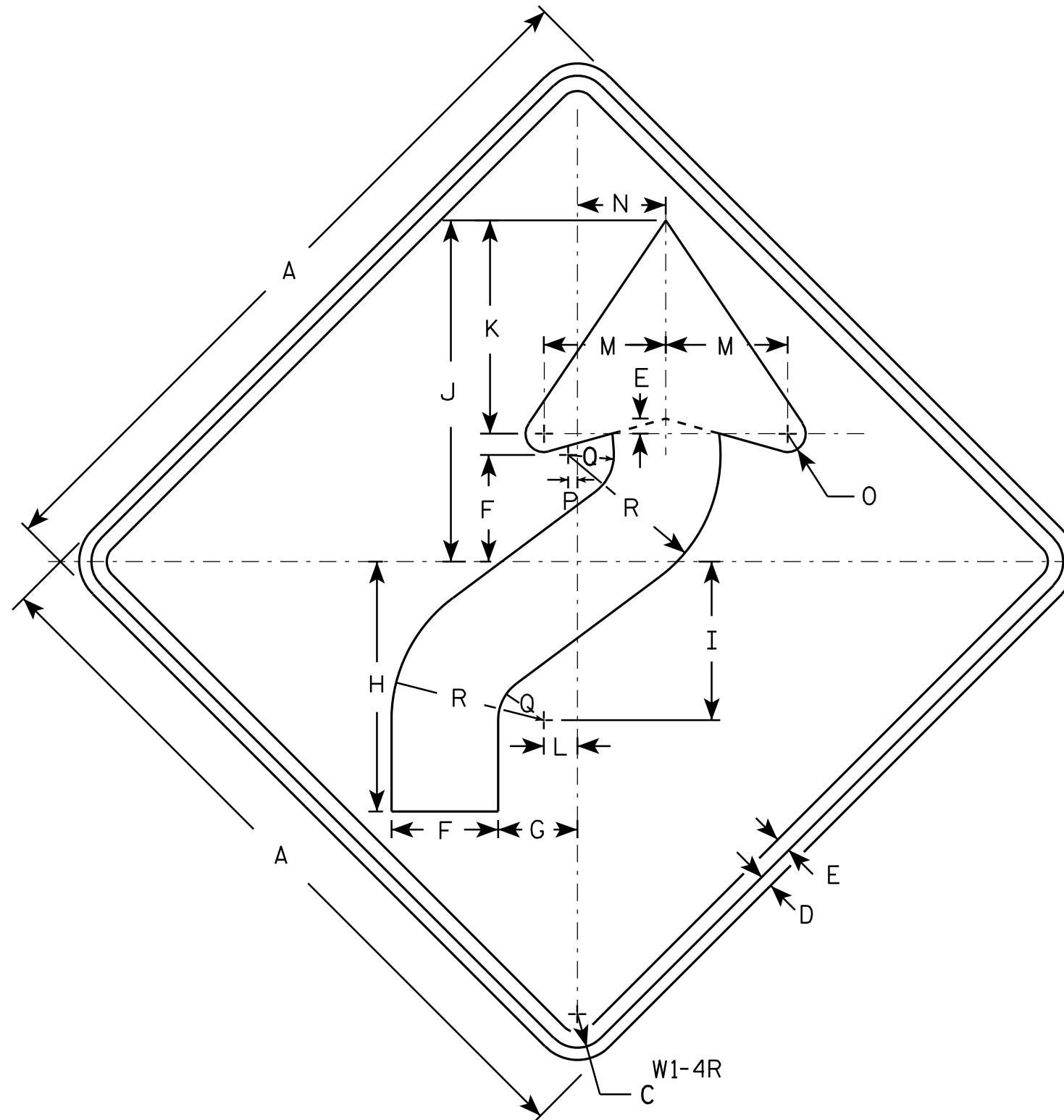
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6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

STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

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



NOTES

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

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

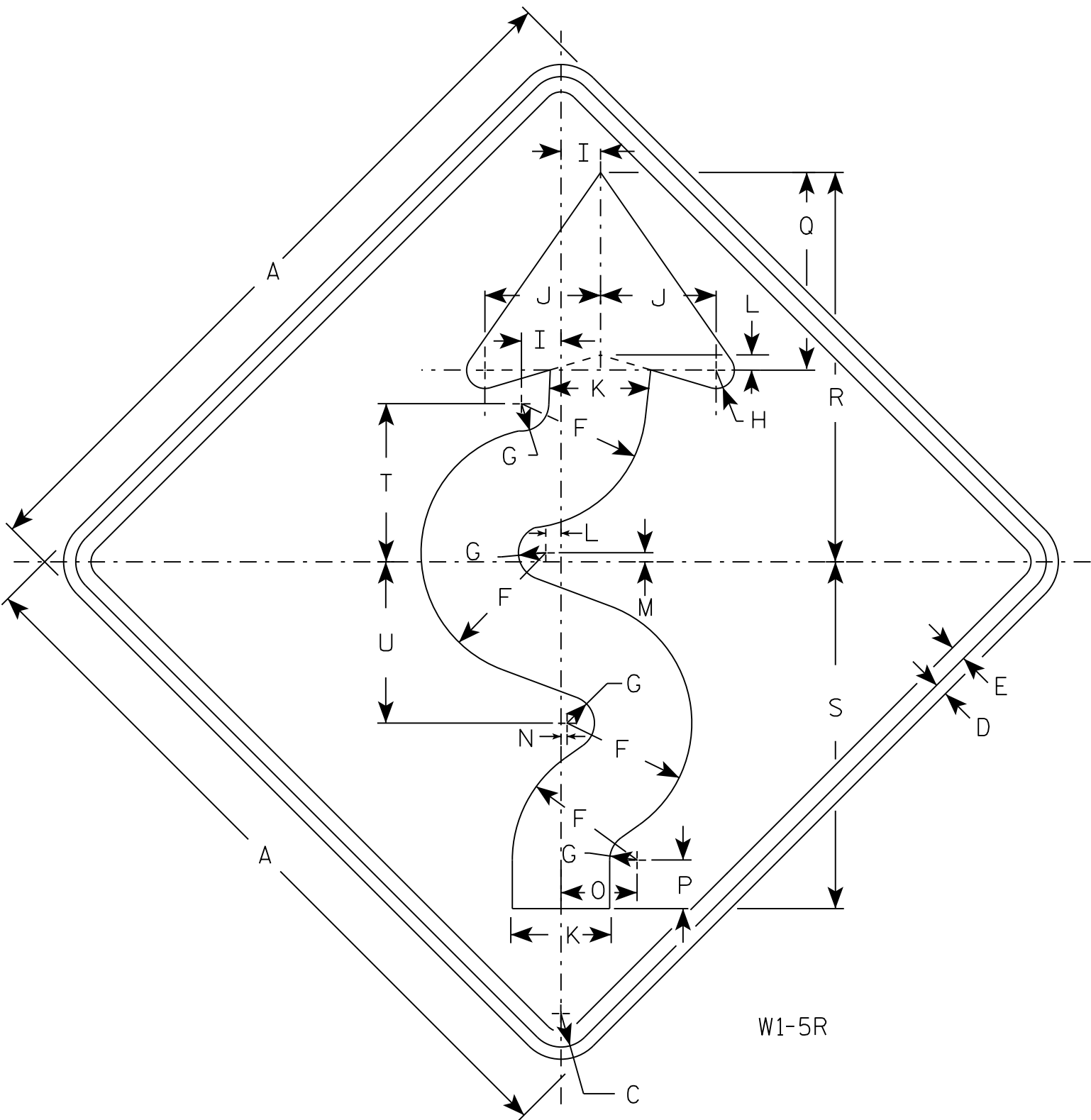
STANDARD SIGN W1 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 113	E
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NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. W1-5L is the same as W1-5R except the arrow is reversed along the vertical centerline.
- 4. If used with W13-1 of 30 MPH or less, use 36" sign for Size 2S.

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	4 1/8	7/8	5/8	1 1/4	3 3/4	3 1/4	1/2	1/4	1/8	2 1/2	1 5/8	6 1/2	12 3/4	11 3/8	5 1/4	5 1/4						4.0
2S	30		1 3/8	1/2	5/8	5 1/8	1 1/8	3/4	1 5/8	4 3/4	4 1/8	5/8	3/8	1/4	3 1/8	2	8 1/8	16	14 1/4	6 1/2	6 5/8						6.25
2M	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
3	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
4	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
5	48		2 1/4	3/4	1	8 1/4	1 3/4	1 1/4	2 1/2	7 1/2	6 1/2	1	1/2	3/8	5	3 1/4	13	25 1/2	22 3/4	10 3/8	10 1/2						16.0

STANDARD SIGN
W1-5

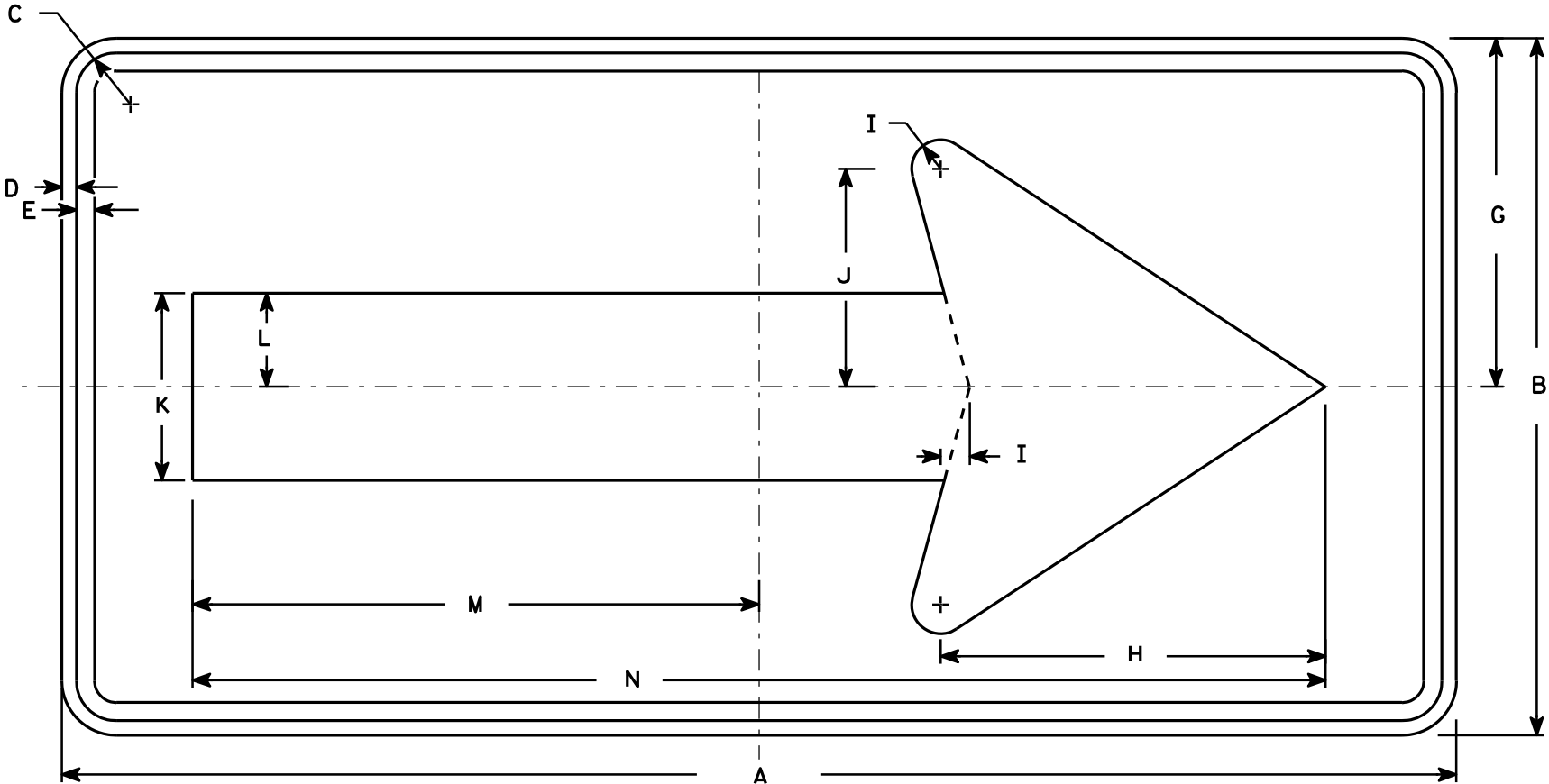
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/1/16 PLATE NO. W1-5.9
114

NOTES

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



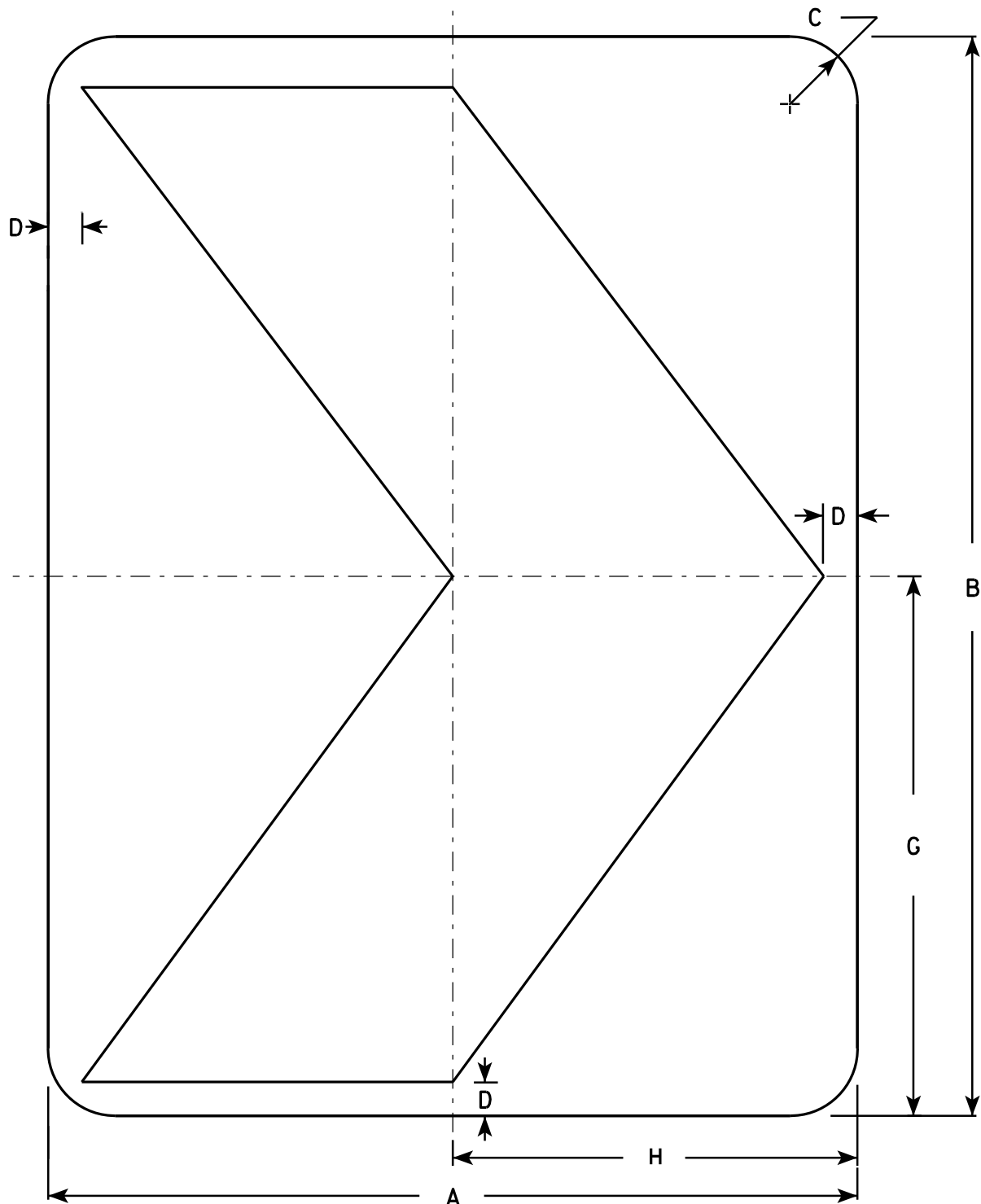
W1-6

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	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
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	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W1-6.8



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.

W1-8

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

STANDARD SIGN

W1-8

WISCONSIN DEPT OF TRANSPORTATION

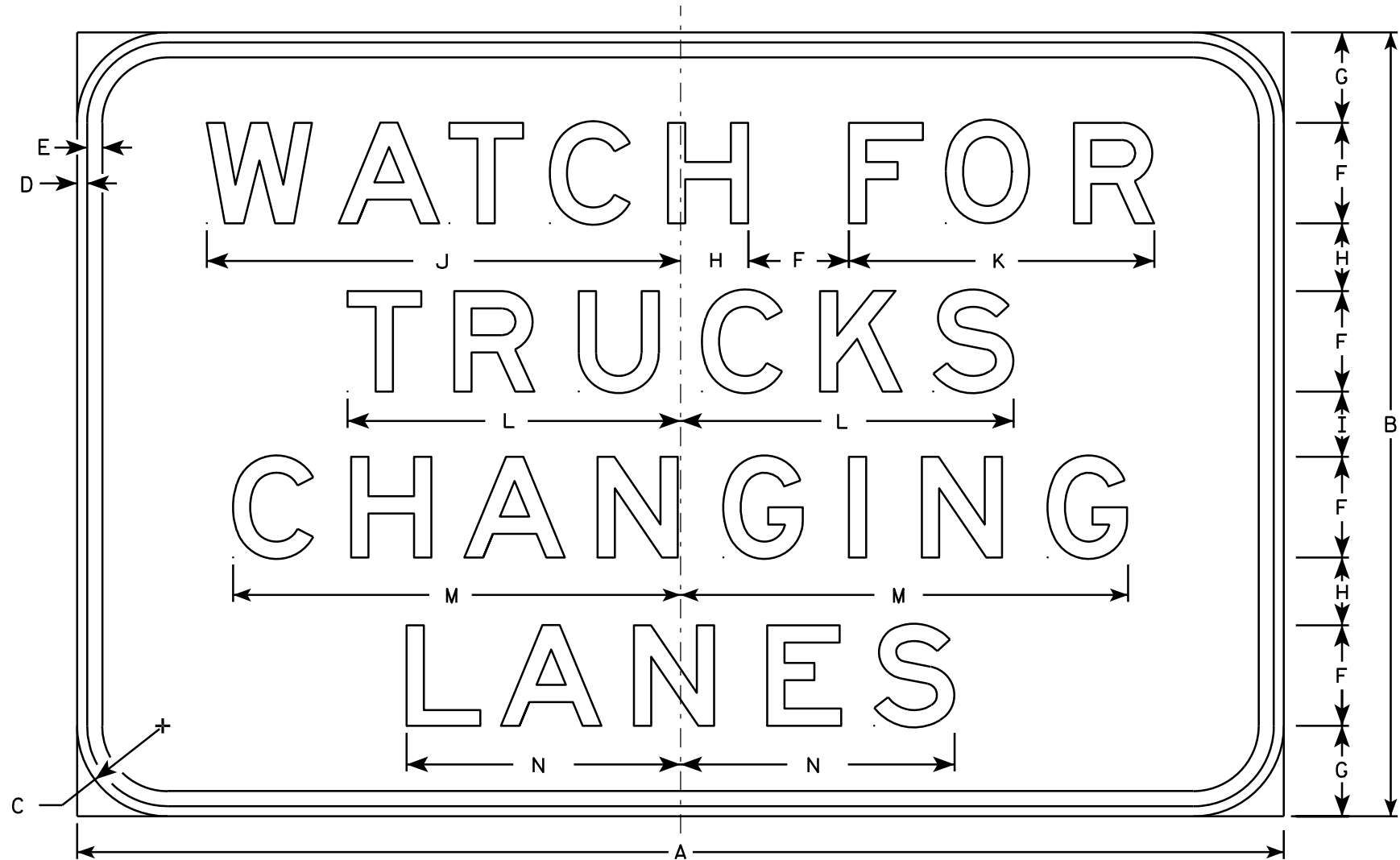
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 116

E



W7-61

NOTES

1. Sign is Type I- Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black Non-Reflective
3. Message Series - E

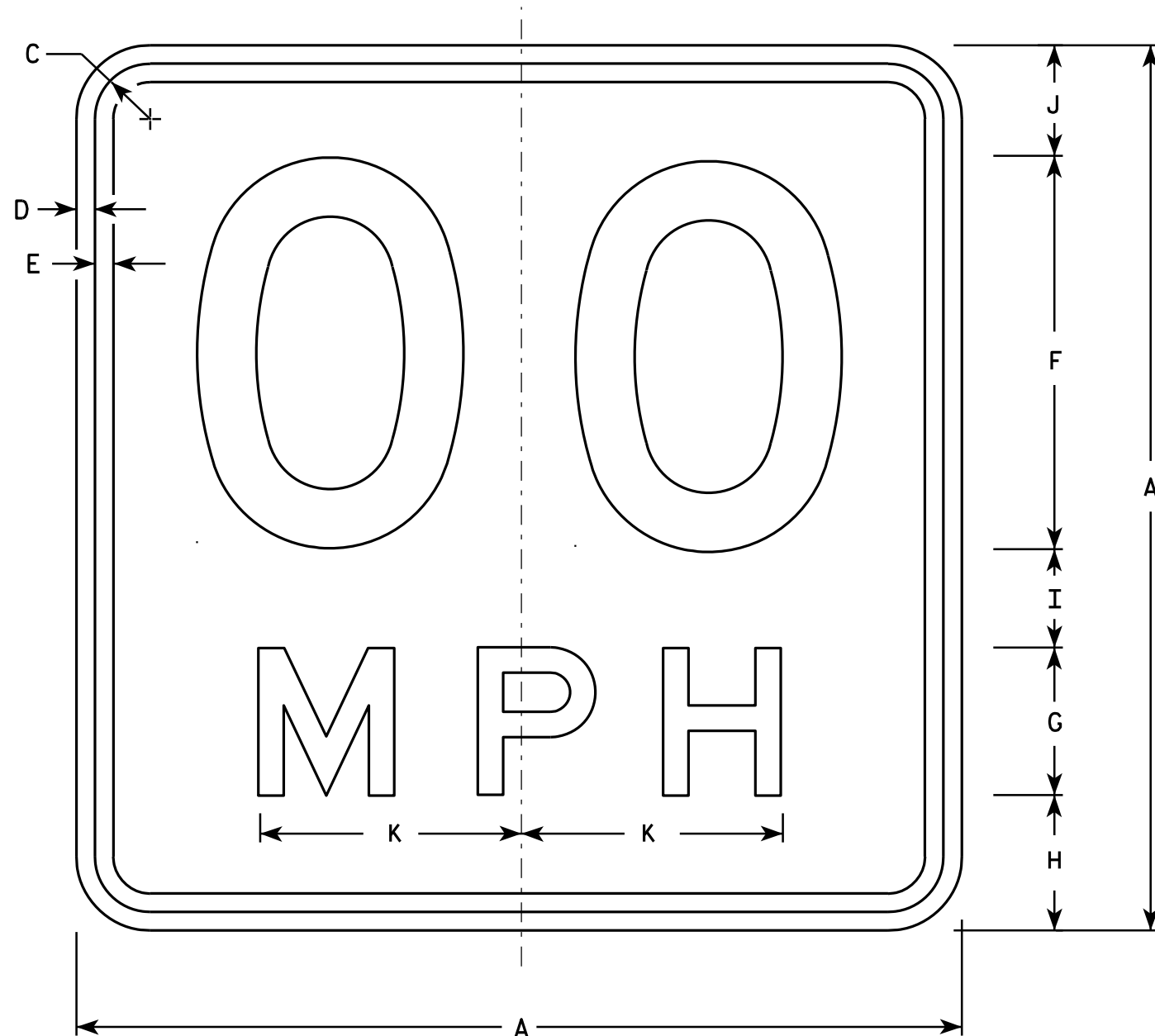
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4																											
5	120	78	9	1	1½	10	9	6¾	6½	47⅛	30⅜	33⅛	44½	27¼													65.0

STANDARD SIGN
W7-61

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 03/14/13 PLATE NO. W7-61.8

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 117	E
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NOTES

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

W13-1

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

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

STANDARD SIGN

W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

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

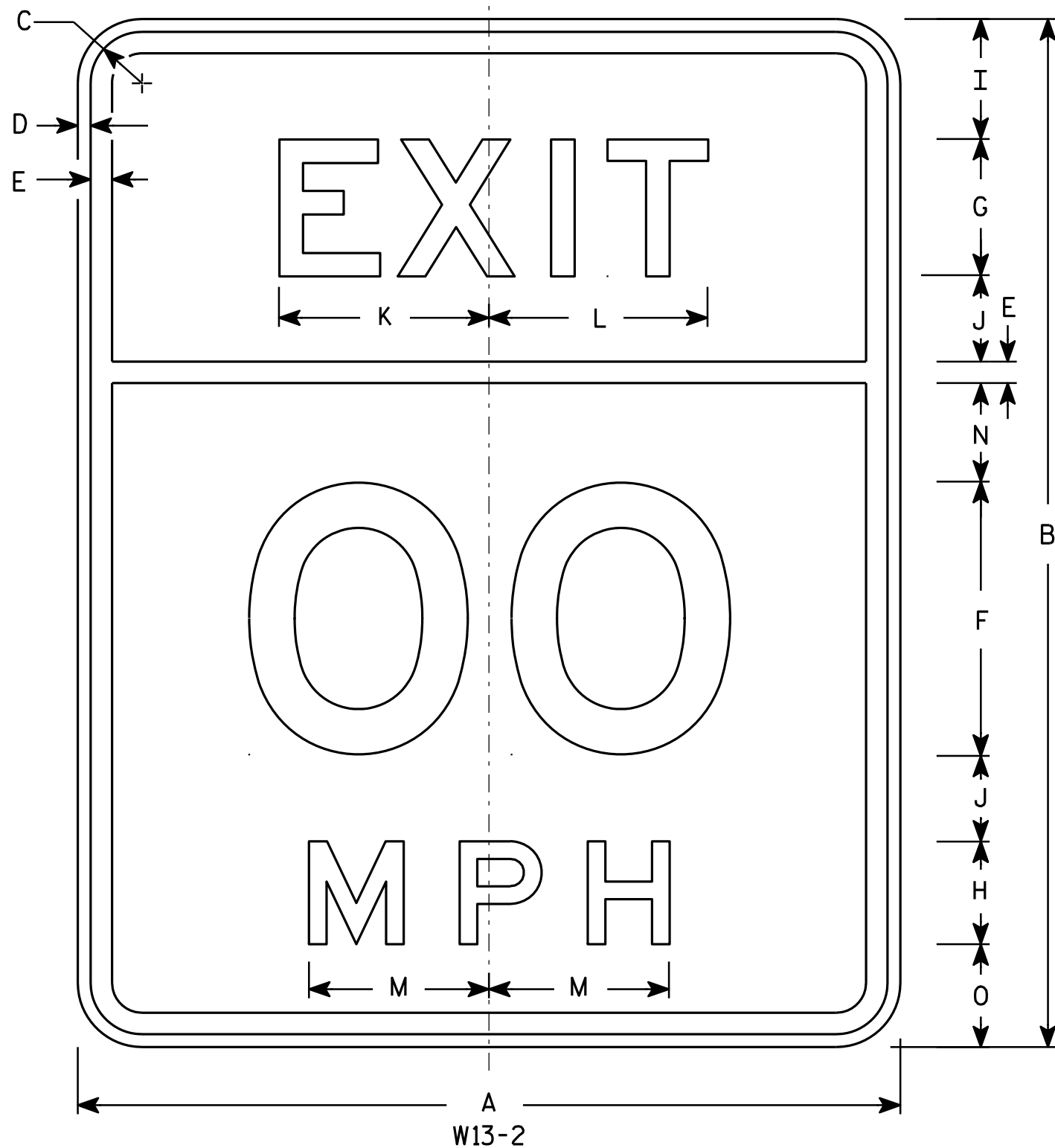
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 118

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 - 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 space about centerline 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	Areq Sq. Ft.
1																											
2S	24	30	1 1/2	3/8	5/8	8	4	3	3 1/2	2 1/2	6 1/8	6 3/8	5 1/4	2 7/8	3												5.0
2M	24	30	1 1/2	3/8	5/8	8	4	3	3 1/2	2 1/2	6 1/8	6 3/8	5 1/4	2 7/8	3												5.0
3	36	48	2 1/4	5/8	7/8	12	6	4	6	4	9 1/4	9 1/2	7 1/8	5 1/8	6												12.0
4	36	48	2 1/4	5/8	7/8	12	6	4	6	4	9 1/4	9 1/2	7 1/8	5 1/8	6												12.0
5	48	60	2 1/4	3/4	1	16	8	6	7	5	12 1/4	12 3/4	10 5/8	5 3/4	6												20.0

STANDARD SIGN W13-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 5/31/12

PLATE NO. W13-2.9

PROJECT NO:

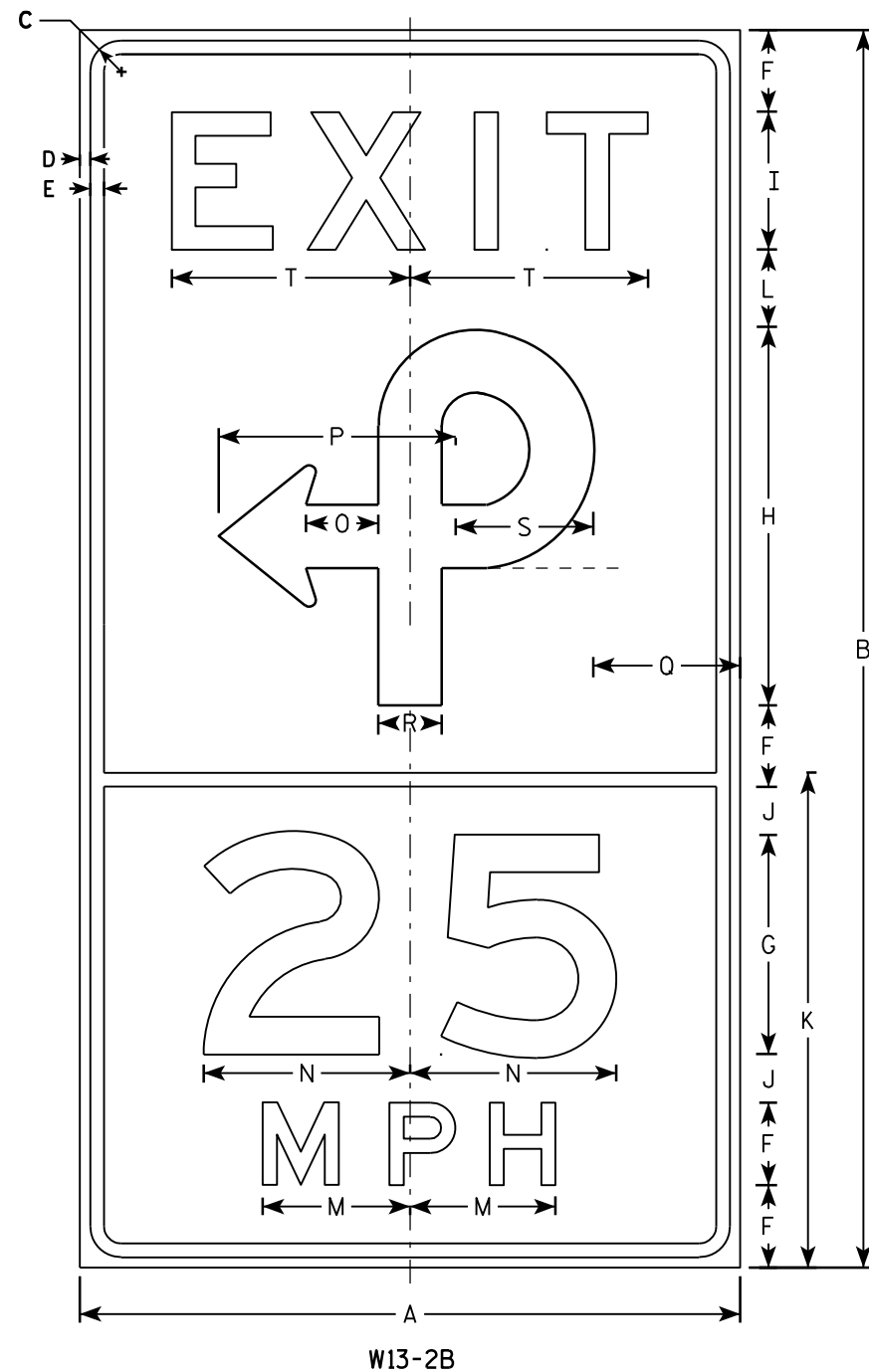
HWY:

COUNTY:

SHEET NO: 119

E

7



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 - 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.

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	90	2 1/4	3/4	1	6	16	27 1/2	10	3 1/2	36	5 1/2	10 3/4	15	5 1/4	17 1/4	10 3/4	4 5/8	10	17 3/8							30
2M	48	90	2 1/4	3/4	1	6	16	27 1/2	10	3 1/2	36	5 1/2	10 3/4	15	5 1/4	17 1/4	10 3/4	4 5/8	10	17 3/8							30
3																											
4																											
5																											

STANDARD SIGN
W13-2B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-2B.3

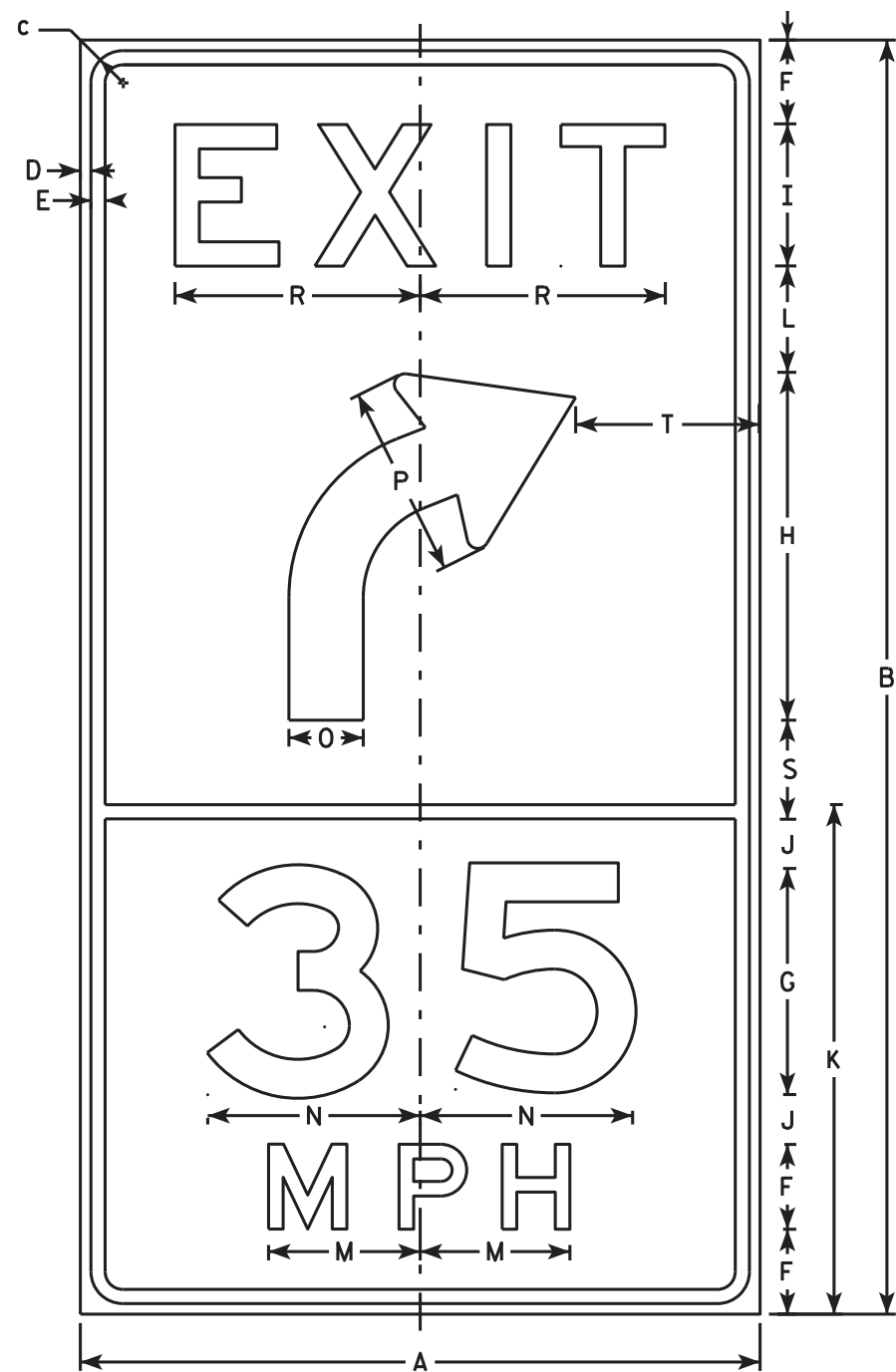
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 120

E



W13-2C

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 - 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.

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	90	2 1/4	3/4	1	6	16	24 5/8	10	3 1/2	36	7 1/2	10 3/4	15	5 1/4	13 5/8	12	17 3/8	7	13							30
2M	48	90	2 1/4	3/4	1	6	16	24 5/8	10	3 1/2	36	7 1/2	10 3/4	15	5 1/4	13 5/8	12	17 3/8	7	13							30
3																											
4																											
5																											

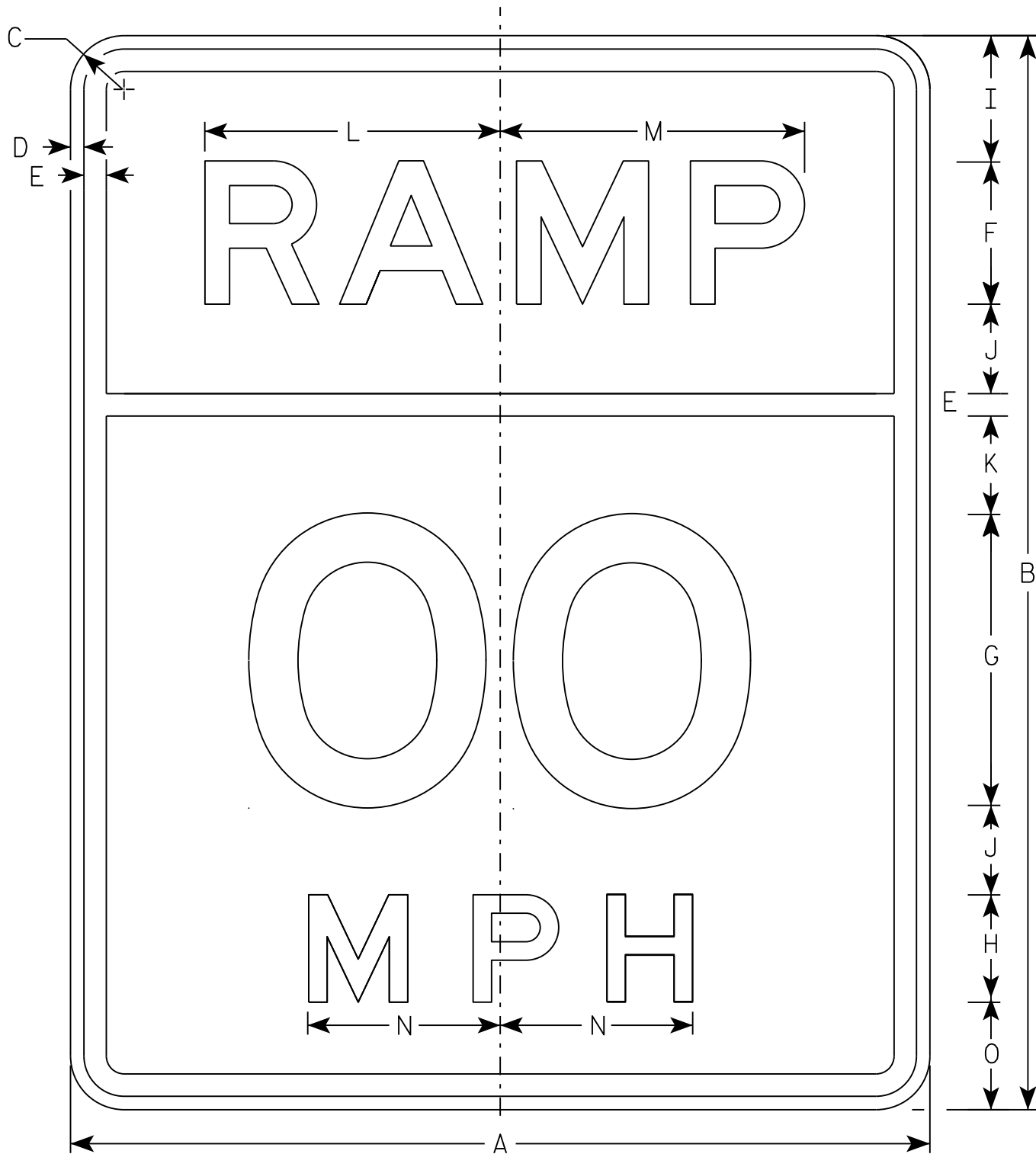
PROJECT NO:		HWY:		COUNTY:		SHEET NO:		E
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W132C.DGN		PLOT DATE : 13-DEC-2013 09:02		PLOT BY : ss...plotuser...ss PLOT NAME :		PLOT SCALE : 21.526189:1.000000		WISDOT/CADDs SHEET 42

STANDARD SIGN
W13-2C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 12/12/13 PLATE NO. W13-2C.4



W13-3

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Yellow
Message - Black
3. Message Series - E
4. Substitute appropriate numerals and optically space about centerline to achieve proper balance.

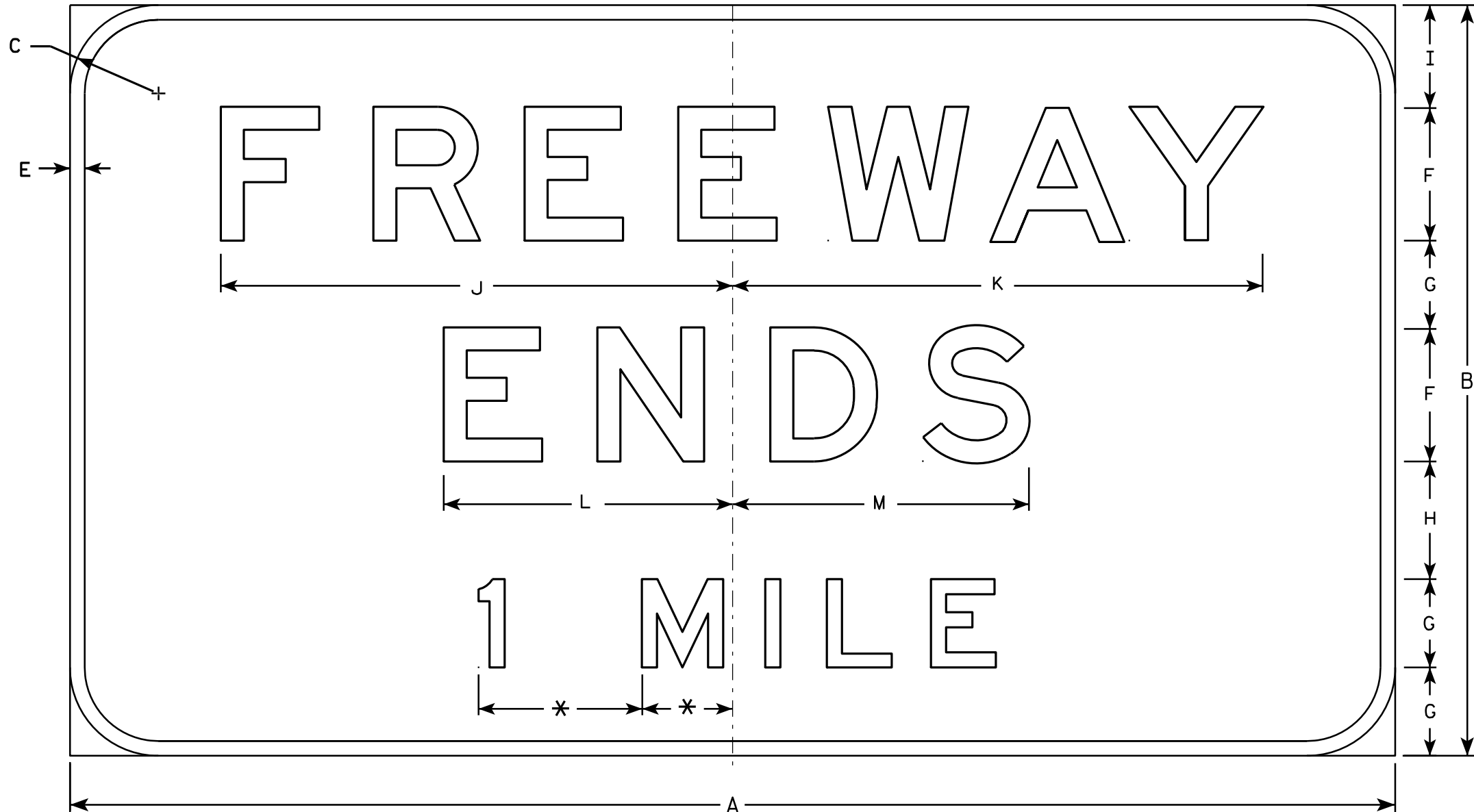
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	30	1 1/8	3/8	5/8	4	8	3	3 1/2	2 1/2	2 7/8	8 1/4	8 1/2	5 3/8	3												5.0
2S	24	30	1 1/8	3/8	5/8	4	8	3	3 1/2	2 1/2	2 7/8	8 1/4	8 1/2	5 3/8	3												5.0
2M	24	30	1 1/8	3/8	5/8	4	8	3	3 1/2	2 1/2	2 7/8	8 1/4	8 1/2	5 3/8	3												5.0
3	36	48	1 5/8	5/8	7/8	6	12	4	6	4 1/8	5 1/8	13 1/2	13 5/8	7 1/8	6												12.0
4	36	48	1 5/8	5/8	7/8	6	12	4	6	4 1/8	5 1/8	13 1/2	13 5/8	7 1/8	6												12.0
5	48	60	2 1/4	3/4	1 1/4	8	16	6	7	5	5 3/4	16 1/2	17	10 5/8	6												20.0

STANDARD SIGN
W13-3

WISCONSIN DEPT OF TRANSPORTATION

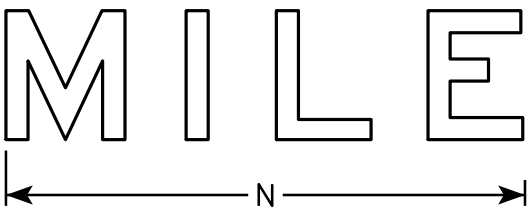
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/1/16 PLATE NO. 122 W13-3.10



W19-1

* Varies



NOTES

1. Sign is Type I - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black - Non Reflective
3. Message Series - E
4. 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																											
2																											
3																											
4	180	102	12	2		18	12	16	14	69 1/2	72	39 1/4	40 1/4	48 1/4													127.5
5	180	102	12	2		18	12	16	14	69 1/2	72	39 1/4	40 1/4	48 1/4													127.5

STANDARD SIGN
W19-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W19-1.2

PROJECT NO:

HWY:

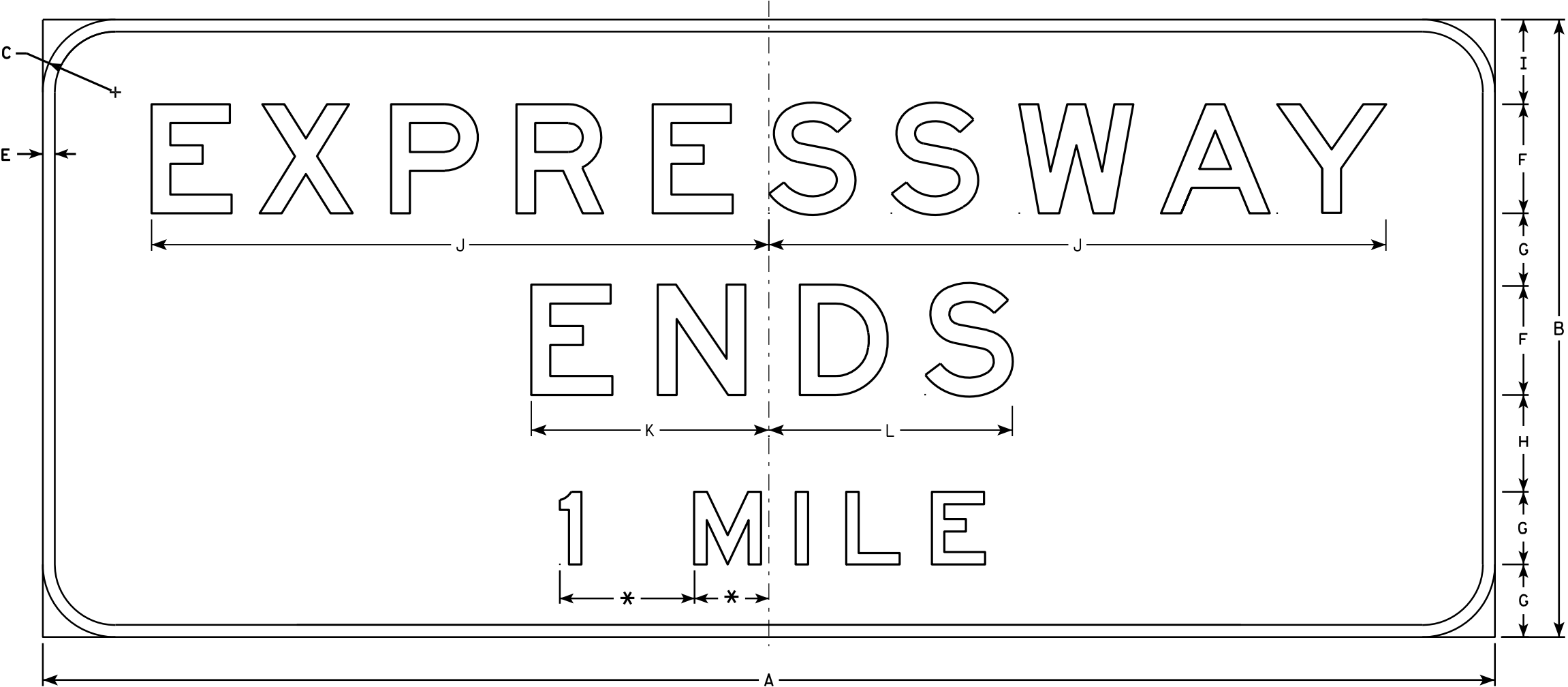
COUNTY:

SHEET NO: 123

E

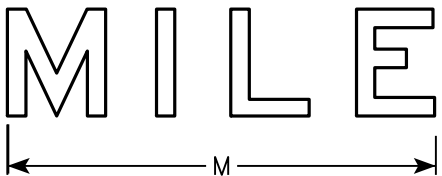
NOTES

- 1. Sign is Type I - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
 - Background - Yellow
 - Message - Black - Non Reflective
- 3. Message Series - E
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.



W19-2

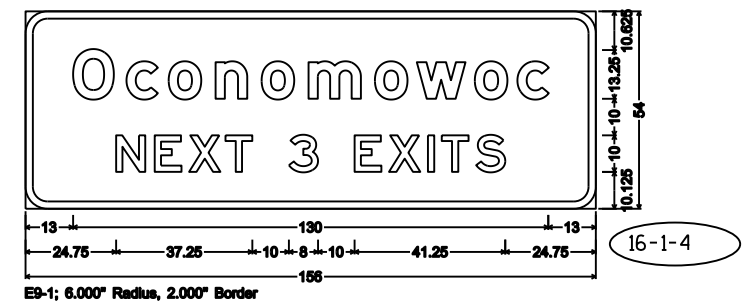
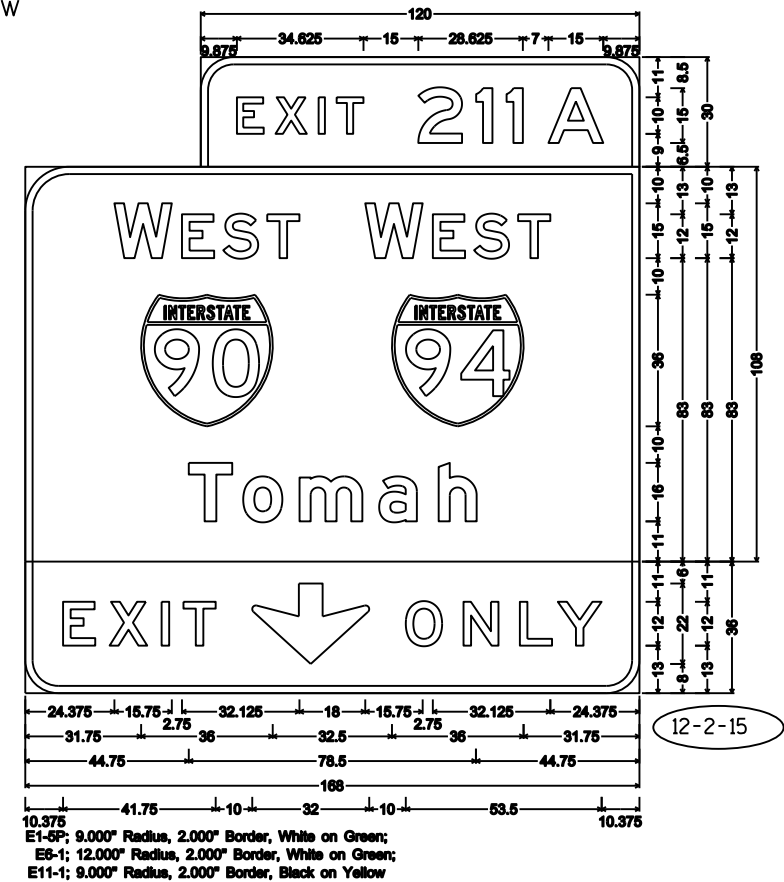
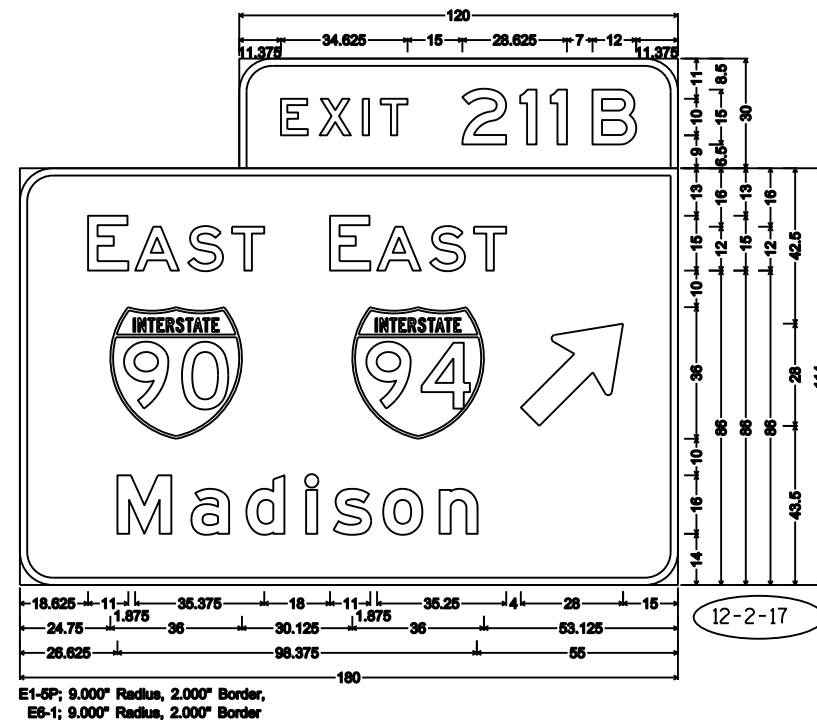
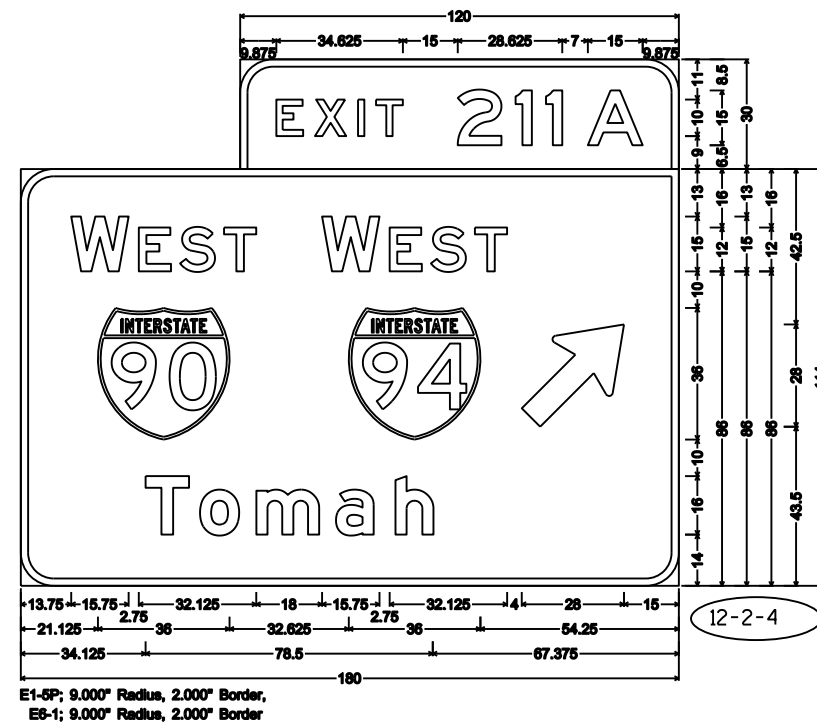
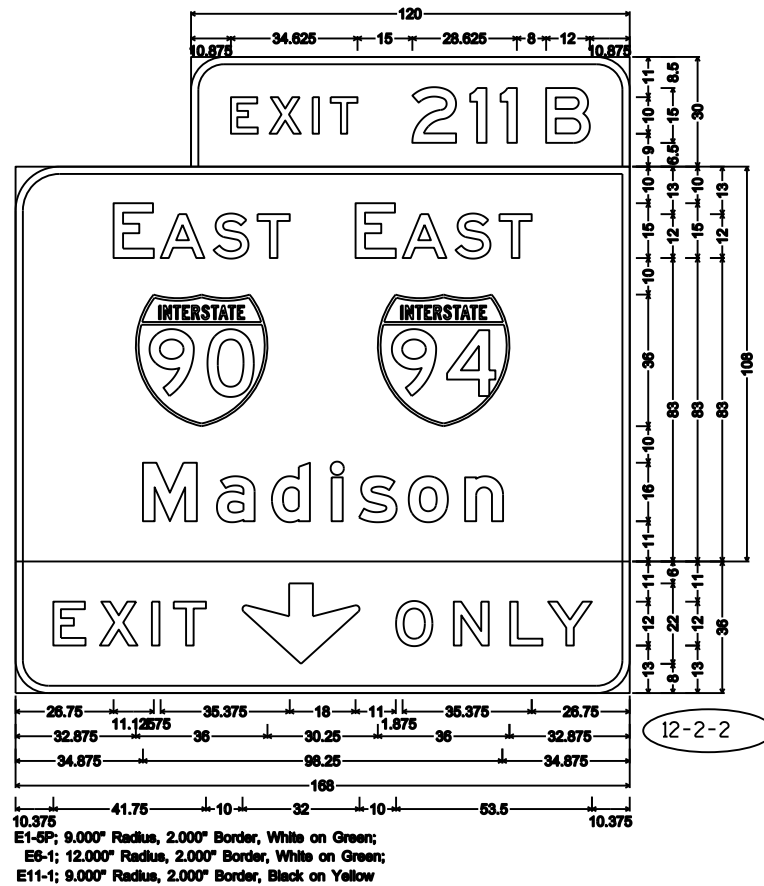
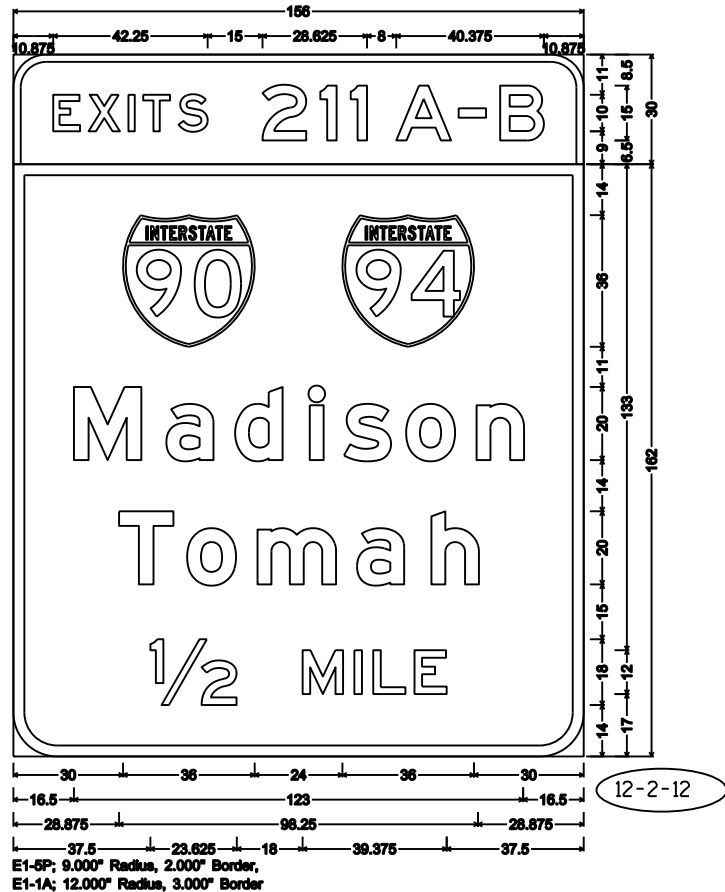
* Varies



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																											
3																											
4	240	102	12	2		18	12	16	14	102	39 1/4	40 1/4	48 1/4														170.0
5	240	102	12	2		18	12	16	14	102	39 1/4	40 1/4	48 1/4														170.0

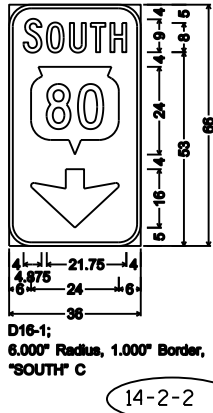
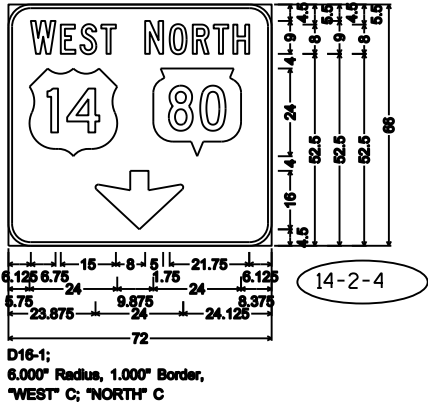
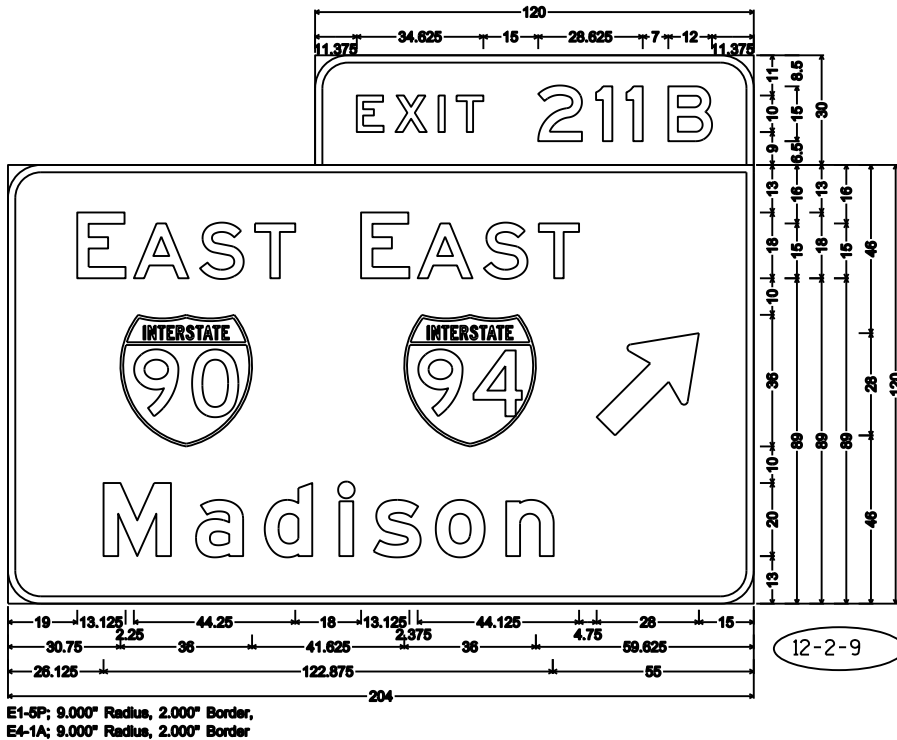
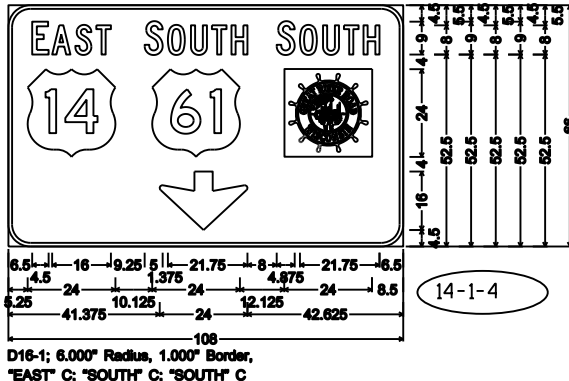
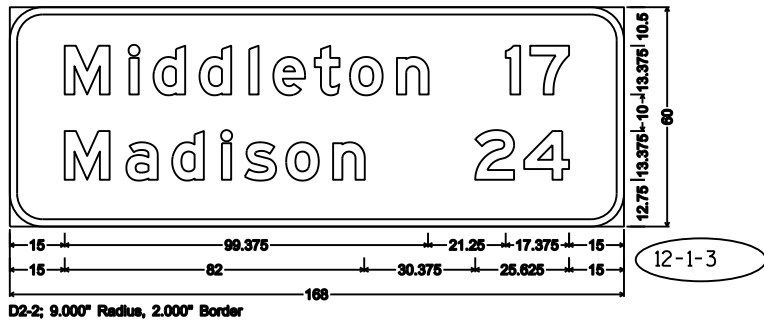
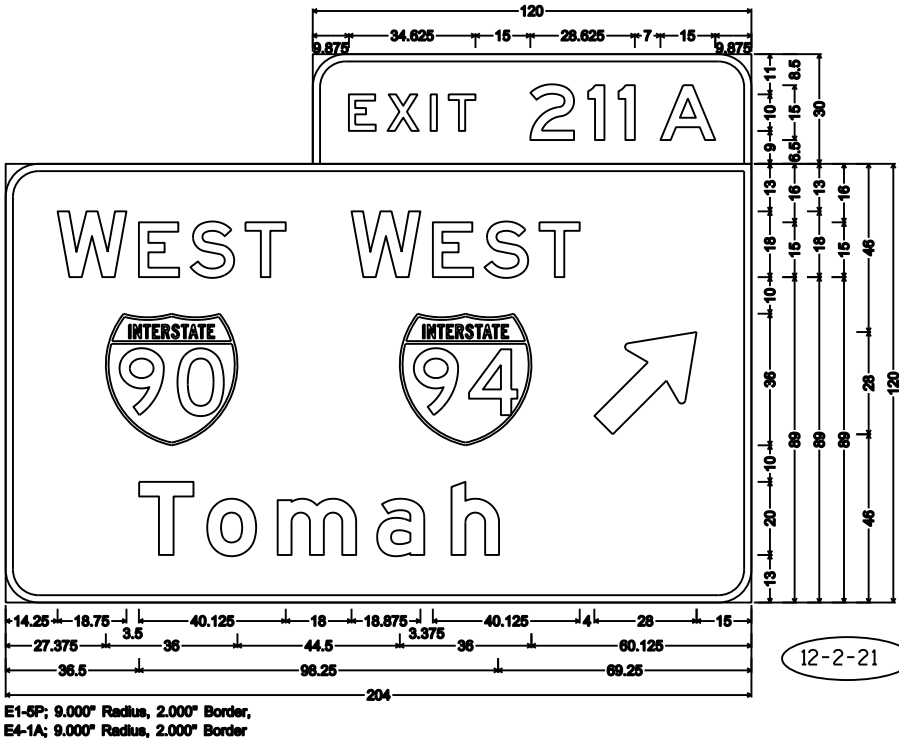
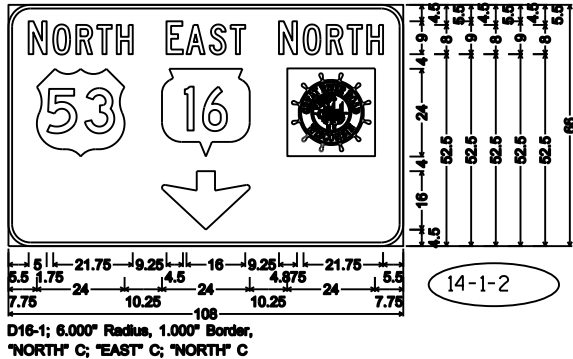
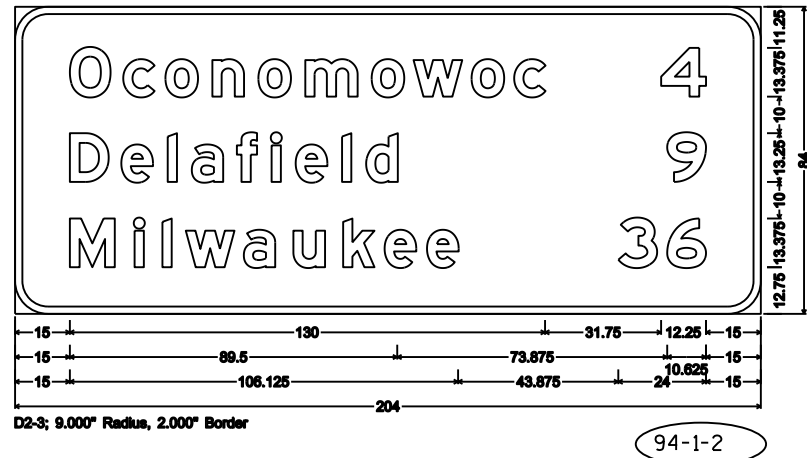
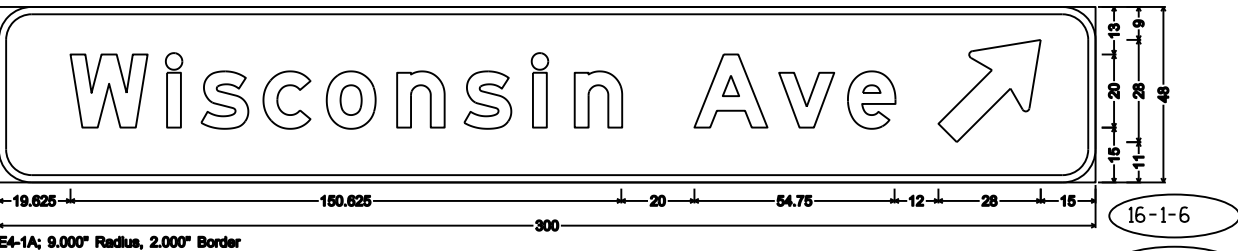
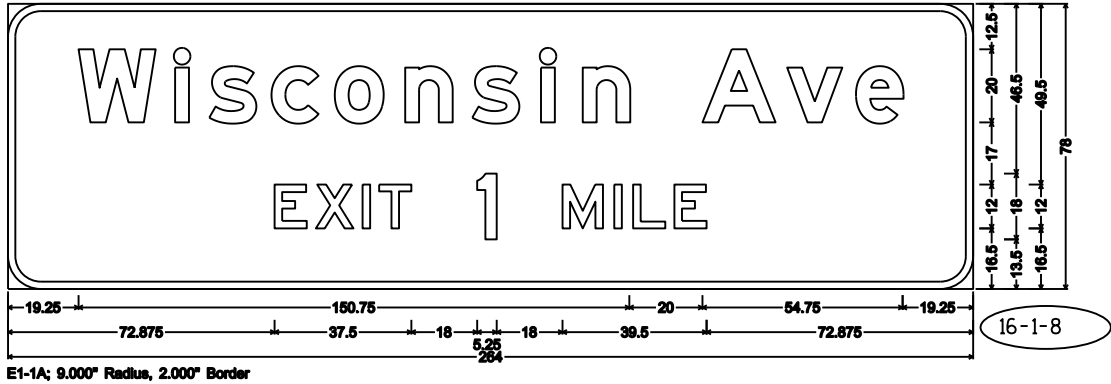
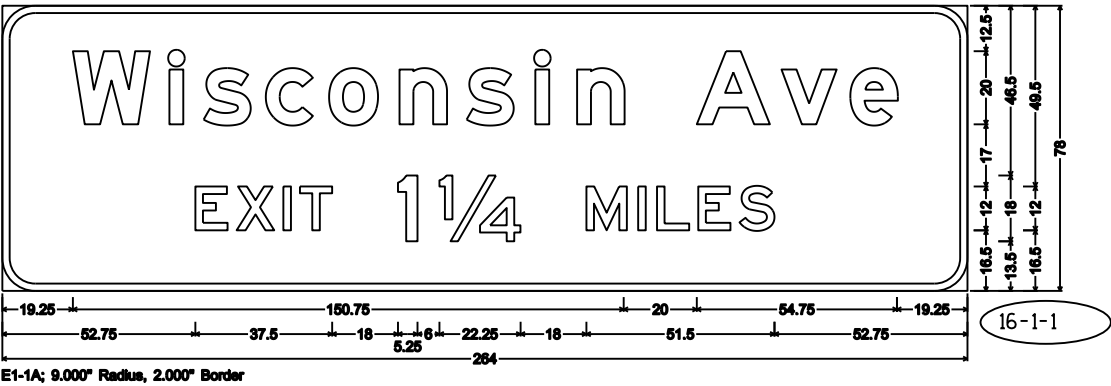
STANDARD SIGN	
W19-2	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 3/13/13	PLATE NO. W19-2.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 124	E
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NOTES

1. Sign is Type I - Type SH Reflective
2. Color:
Background - Green except as noted
Message - White
3. Message Series - E Modified except all Cap Words Series E.
4. Exit Only Panels Type F Reflective with:
Background - Yellow
Message - Black



NOTES

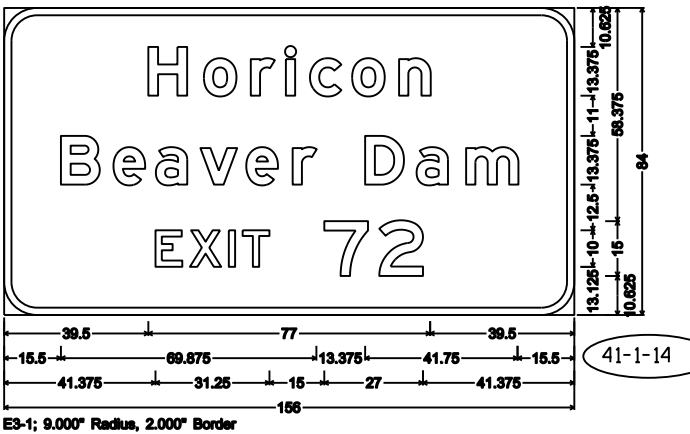
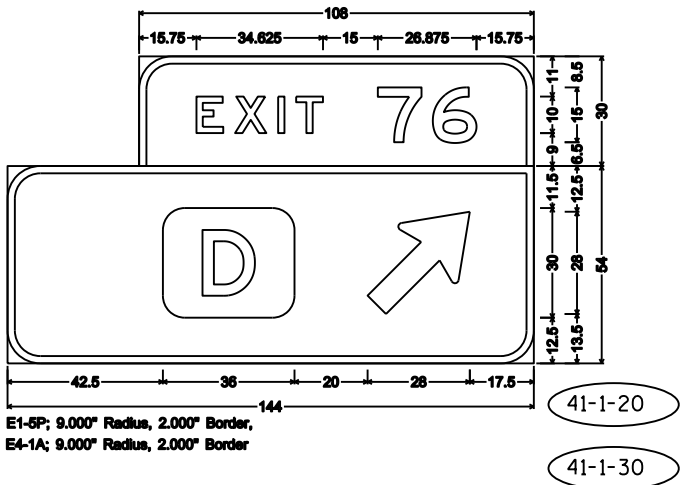
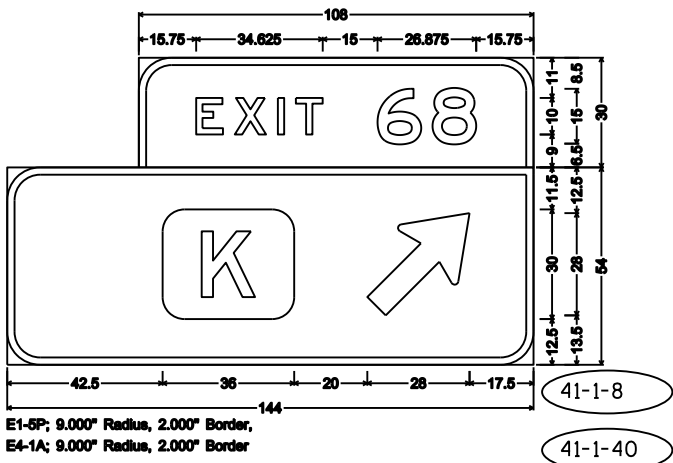
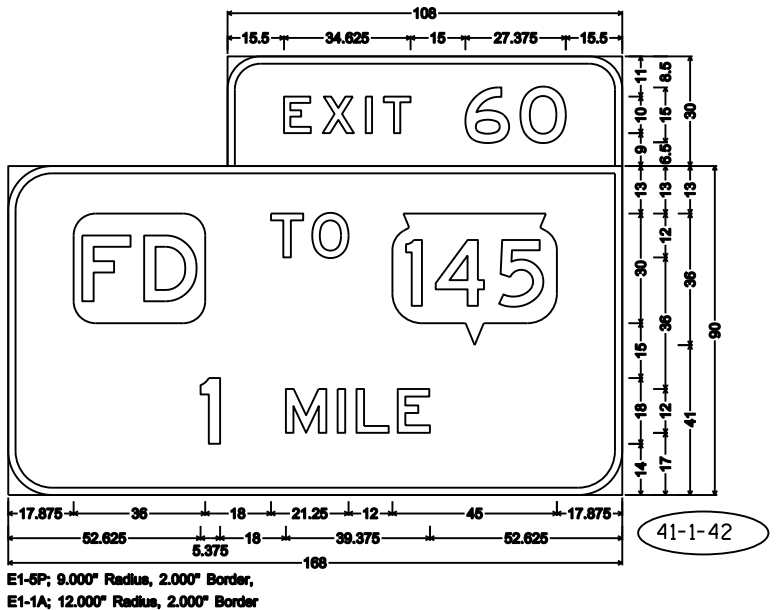
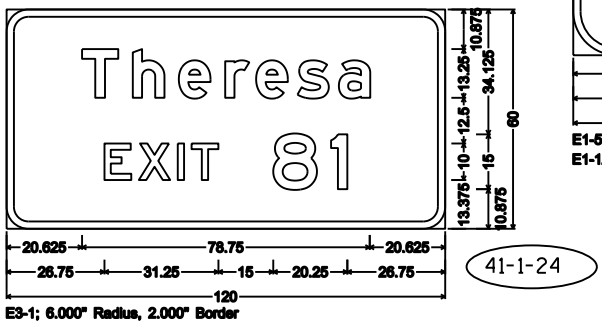
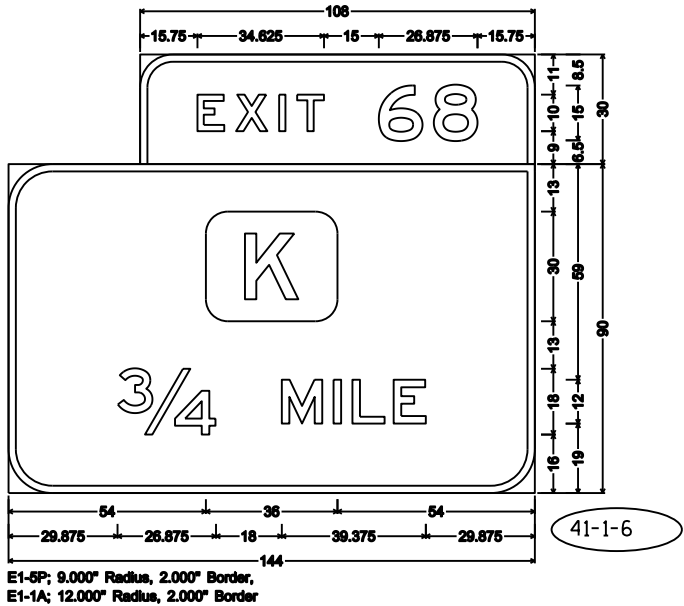
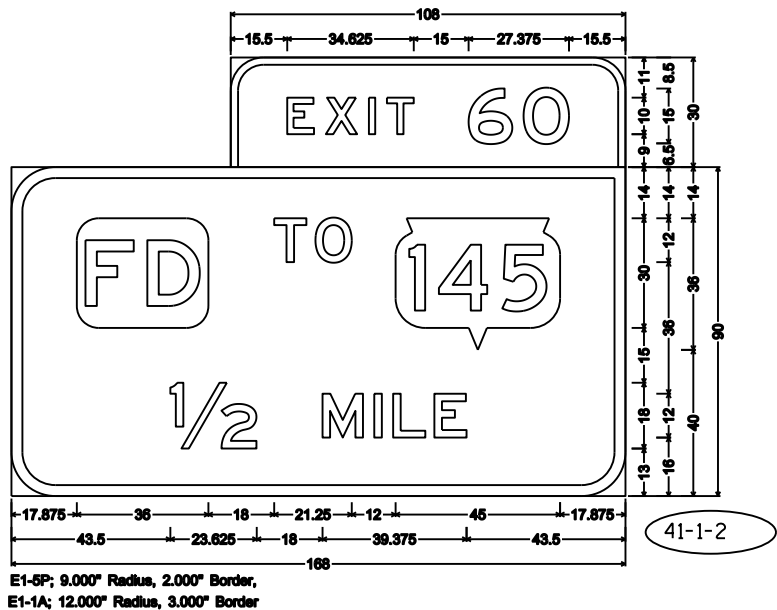
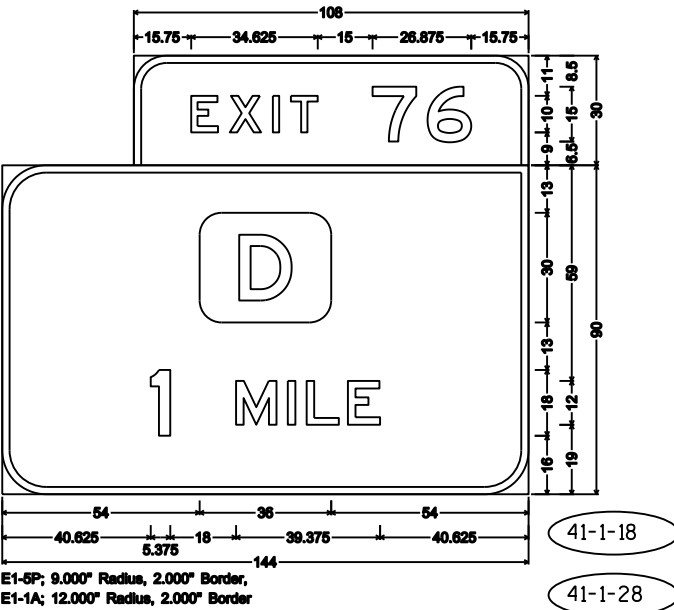
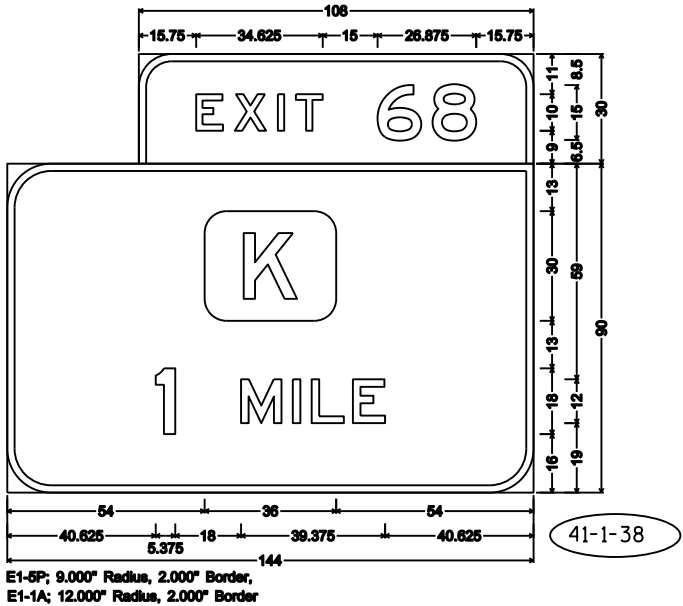
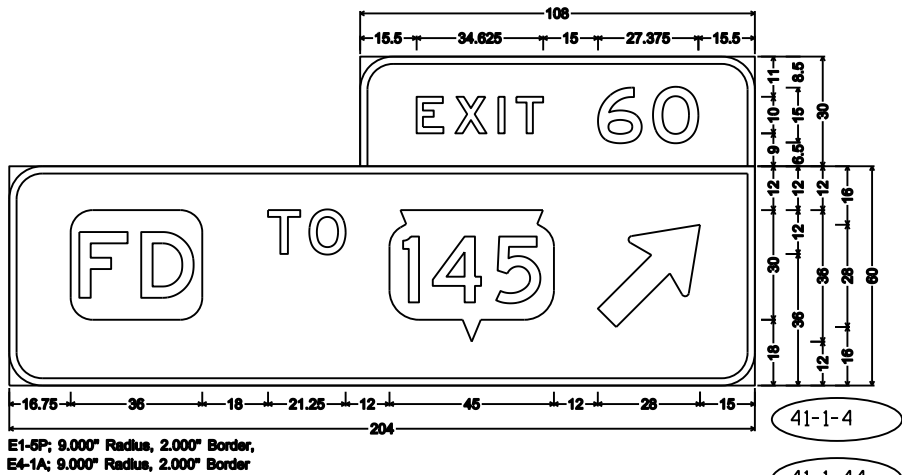
- 1. Sign is Type I - Type SH Reflective
- 2. Color:
Background - Green except as noted
Message - White
- 3. Message Series - E Modified except all Cap Words Series E.
or as noted

7

7

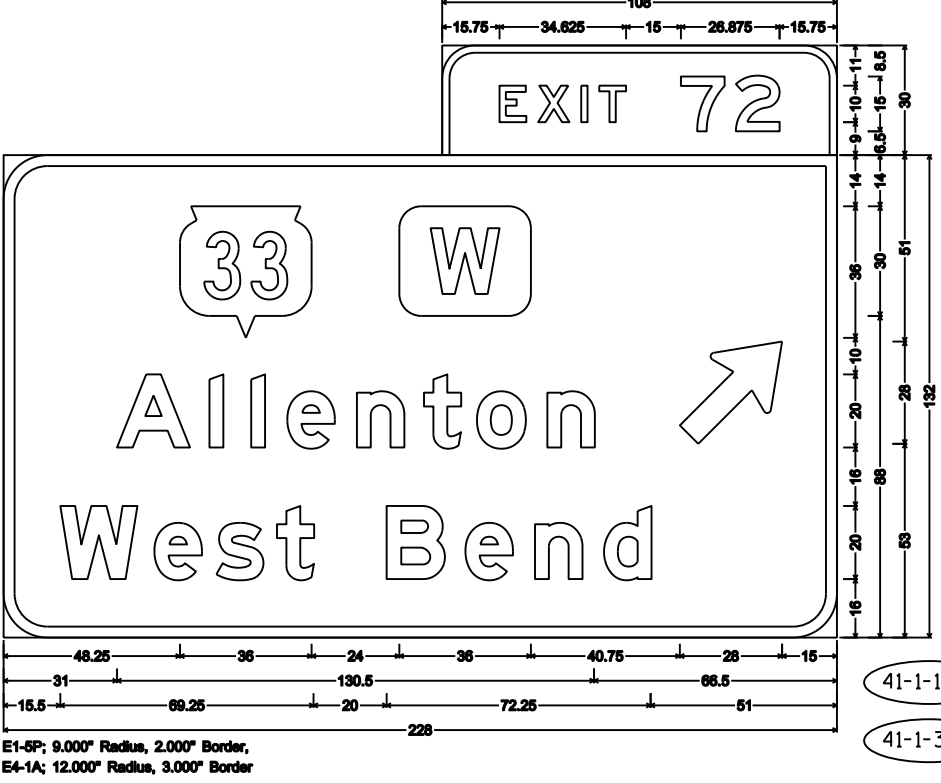
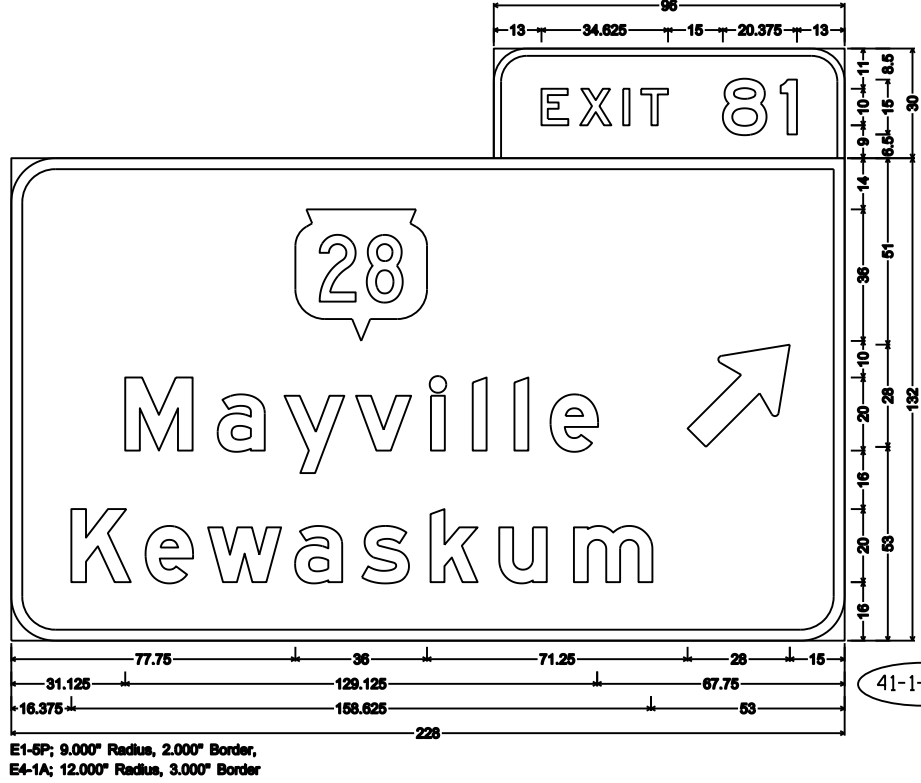
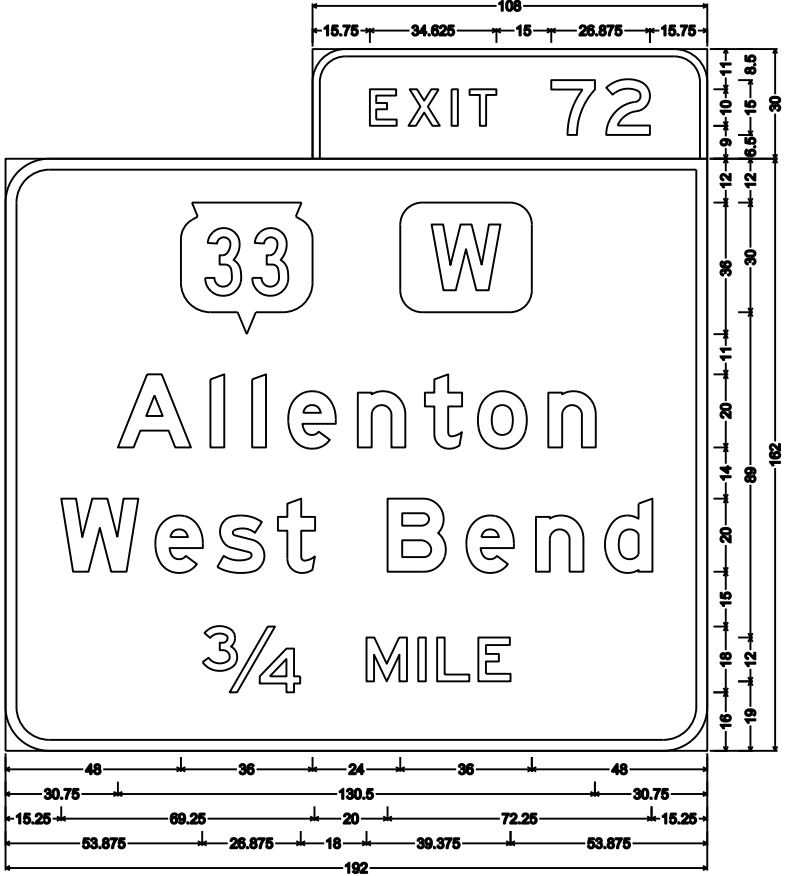
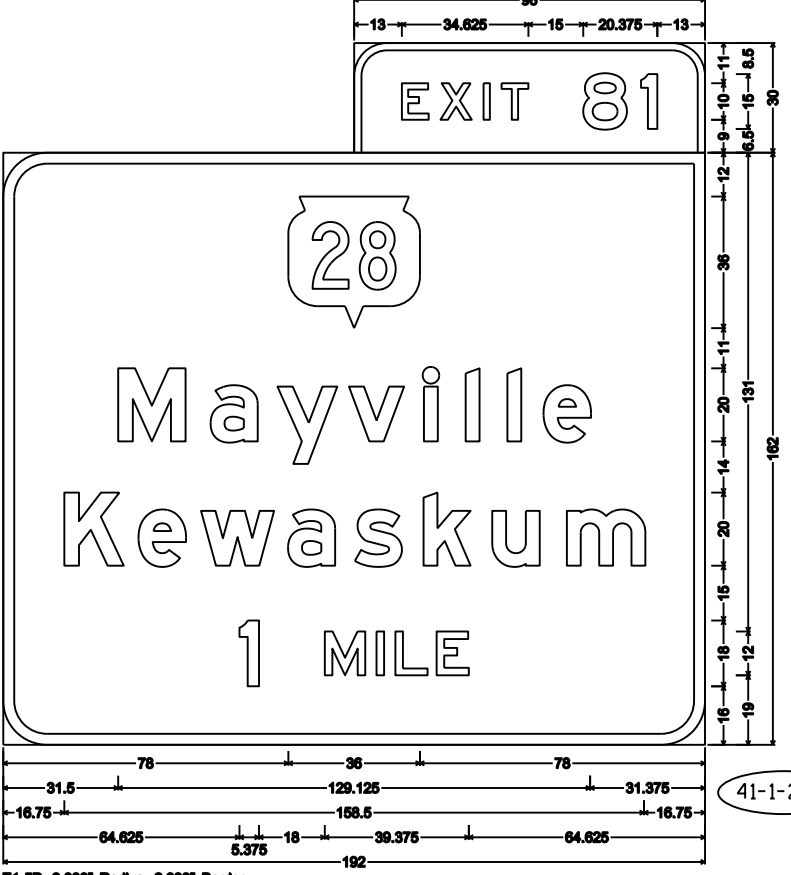
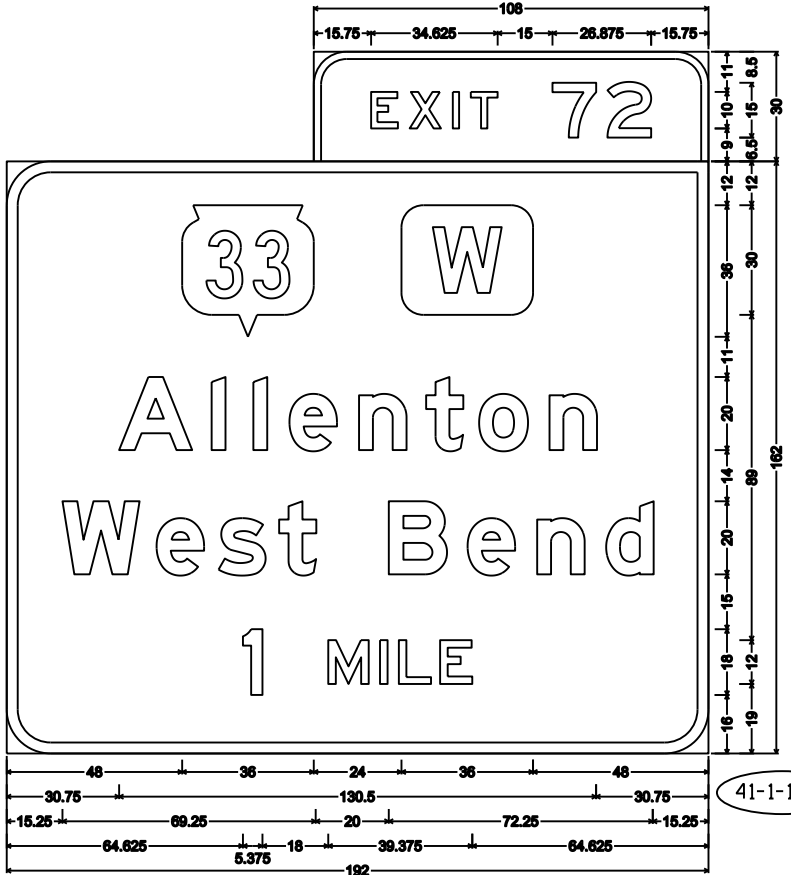
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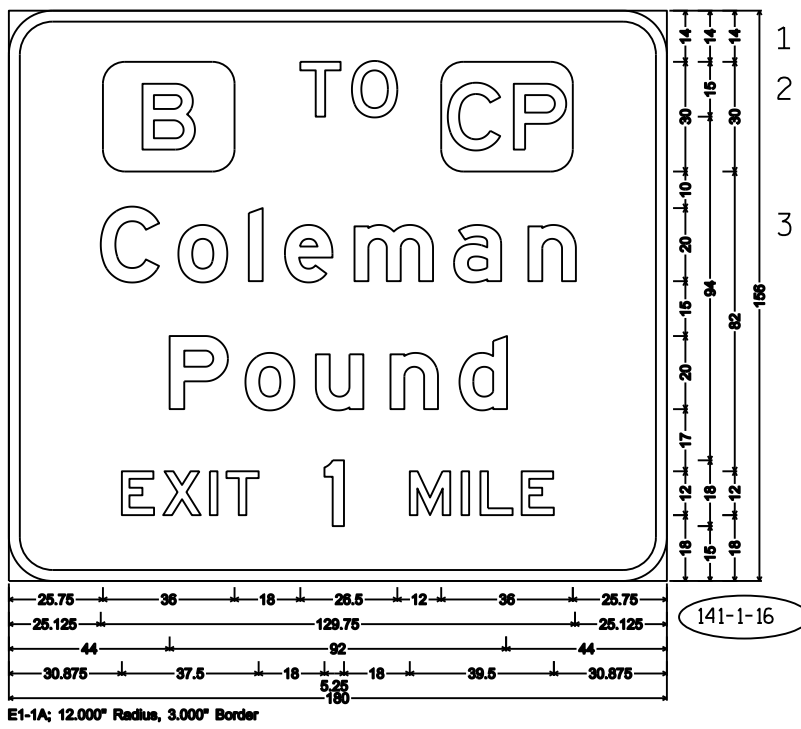
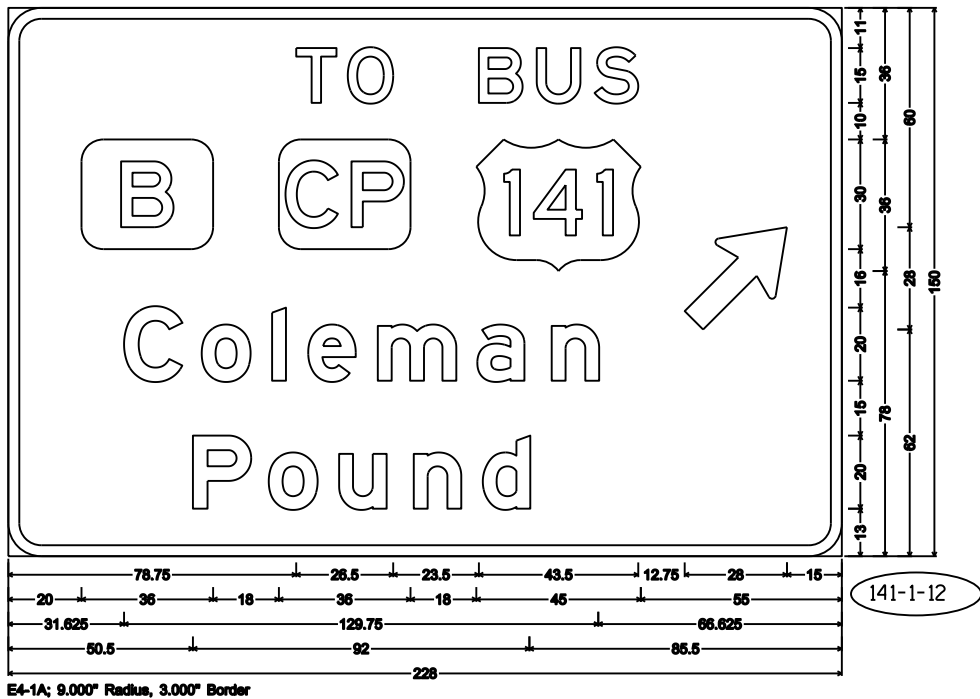
1. Sign is Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all Cap Words Series E.



NOTES

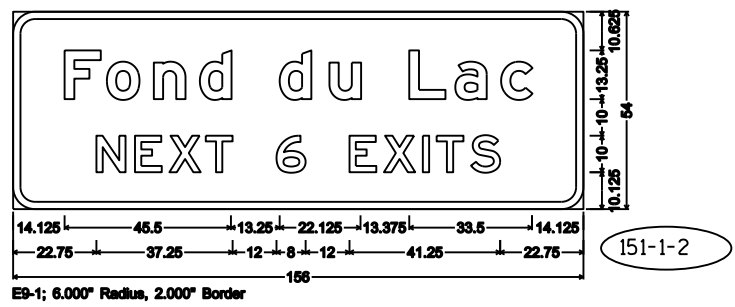
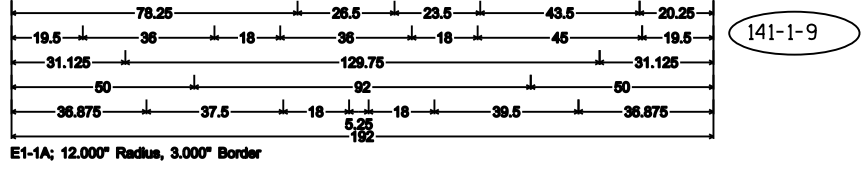
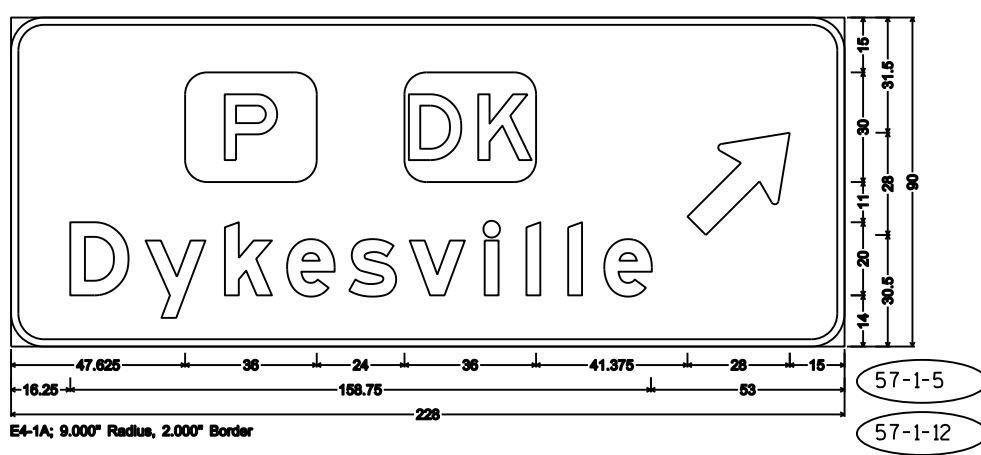
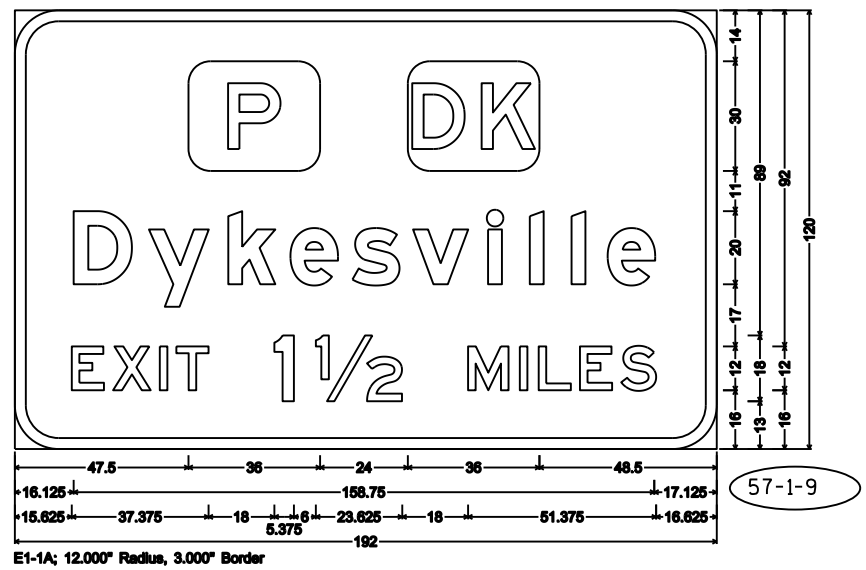
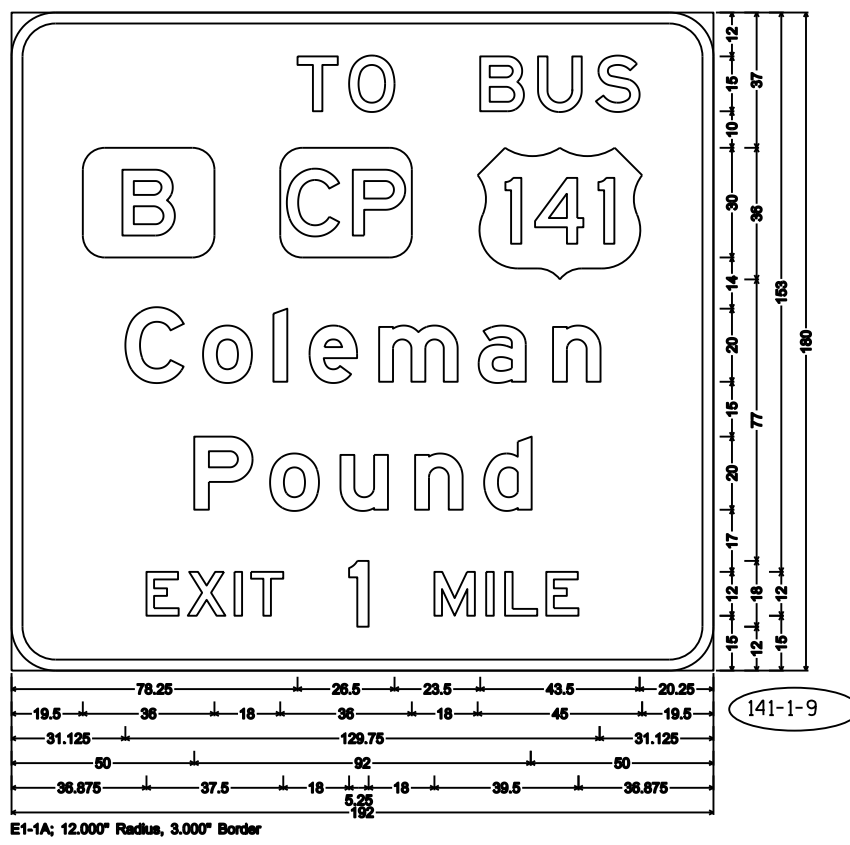
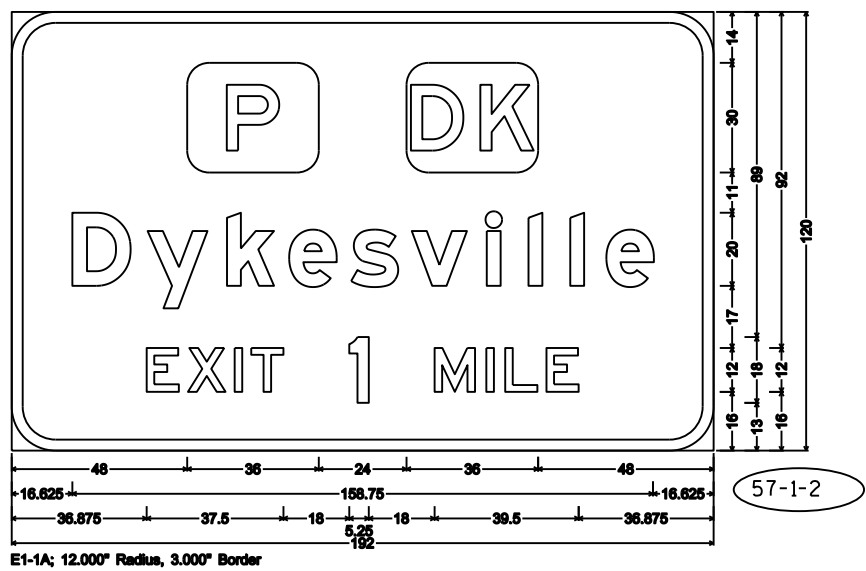
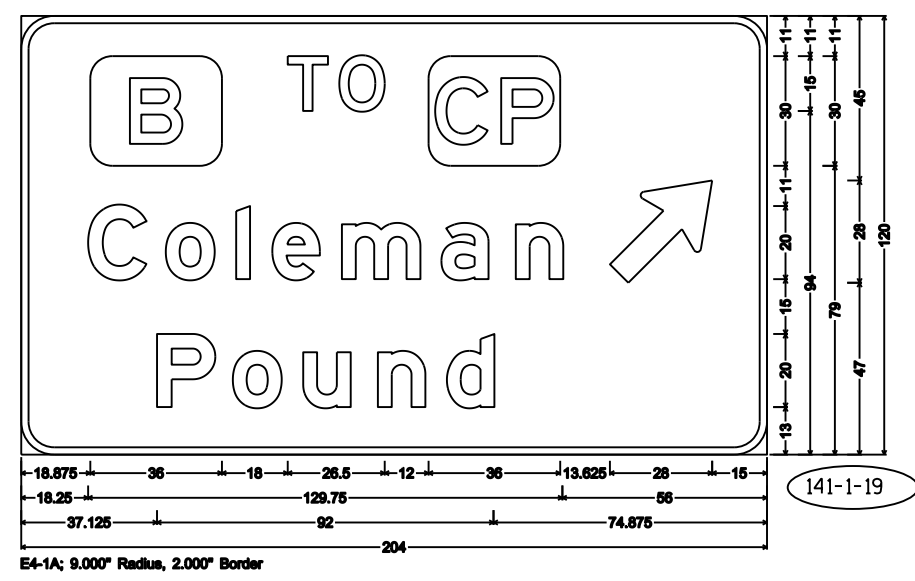
- 1. Sign is Type I - Type SH Reflective
- 2. Color:
Background - Green
Message - White
- 3. Message Series - E Modified except all Cap Words Series E.





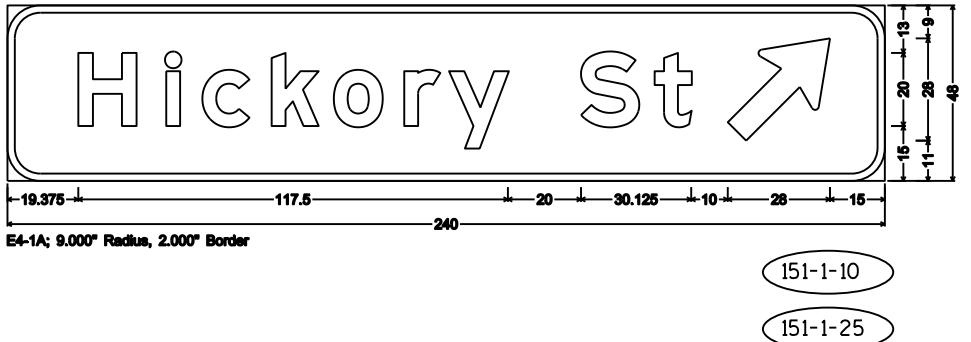
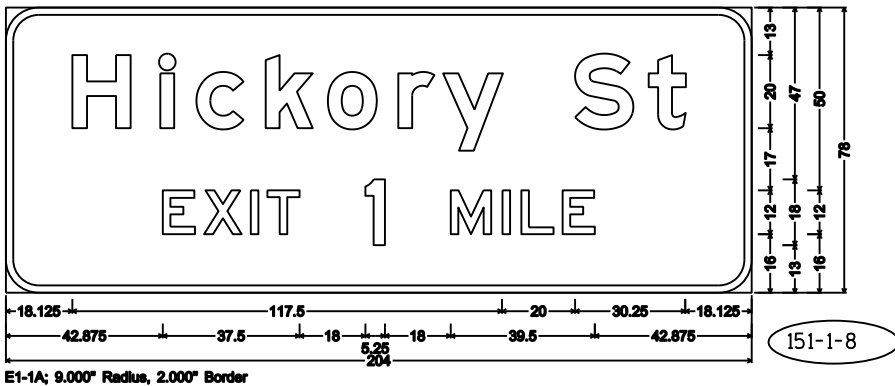
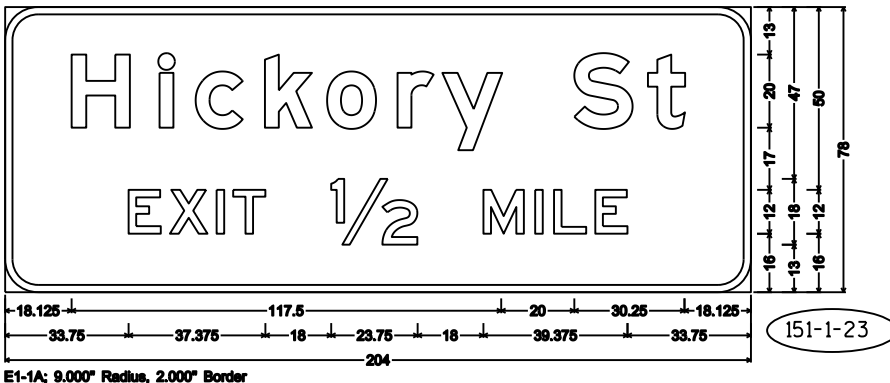
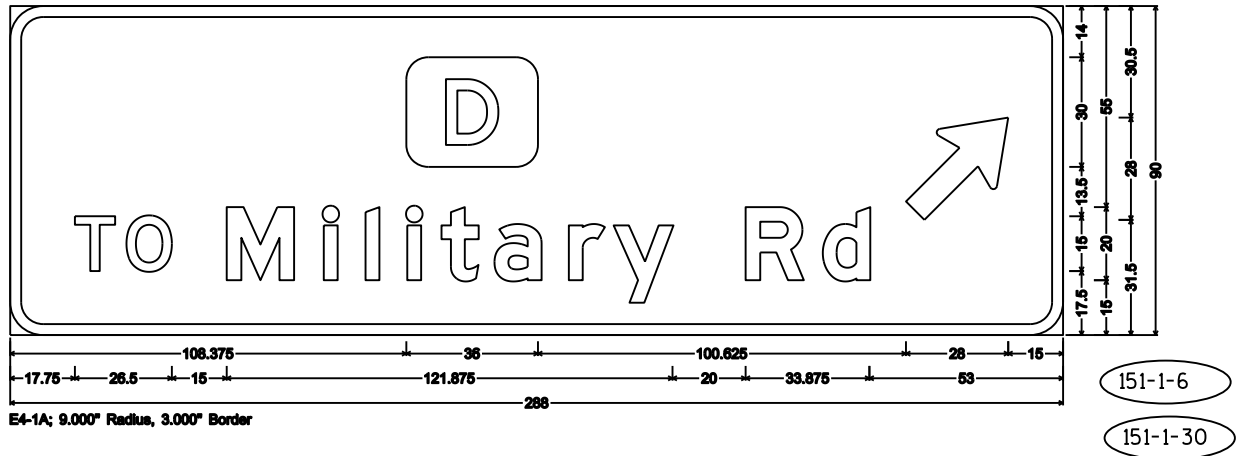
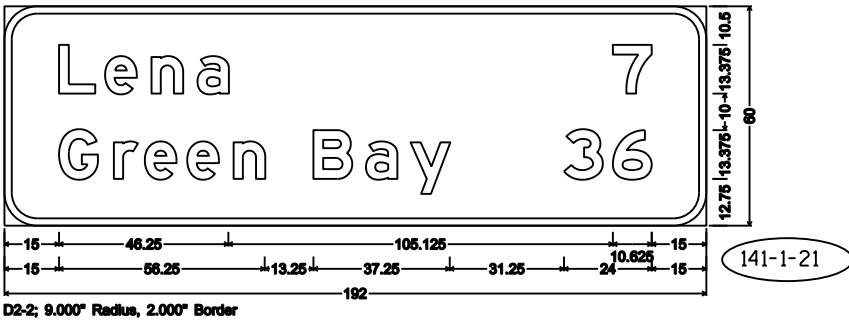
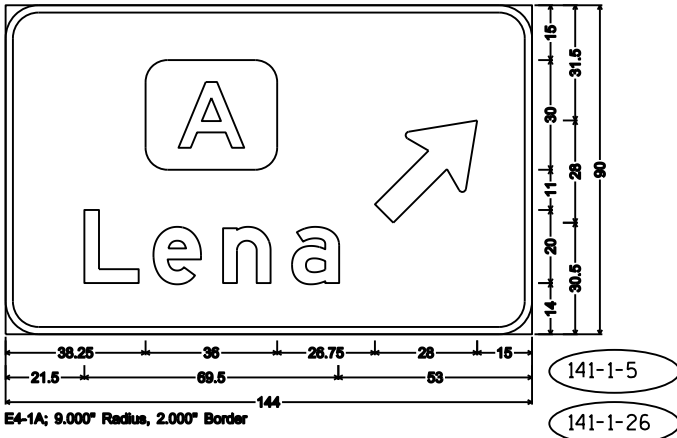
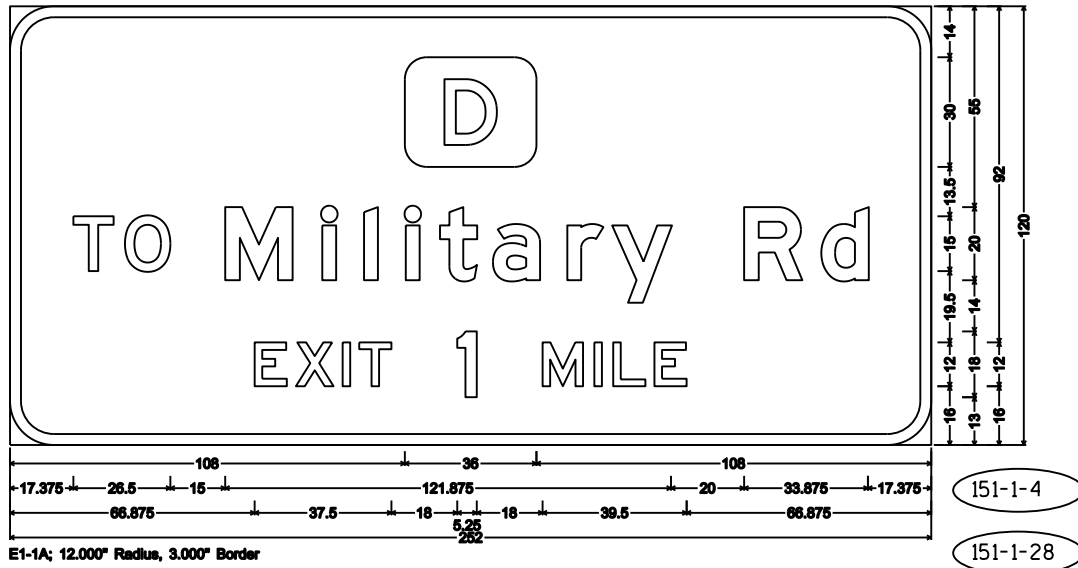
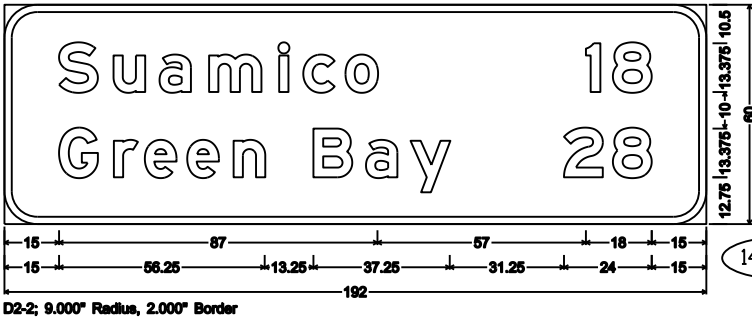
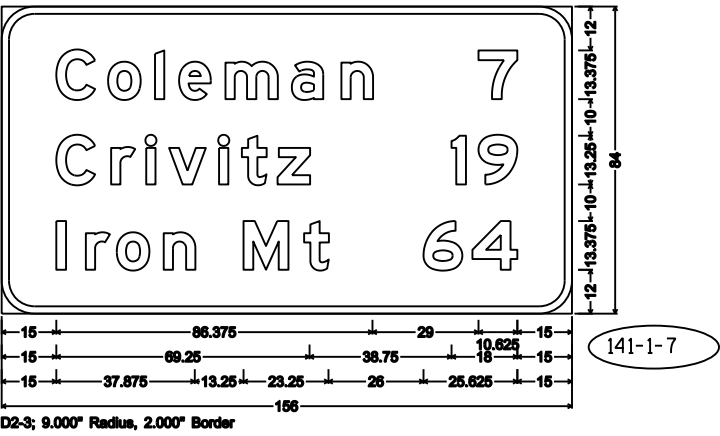
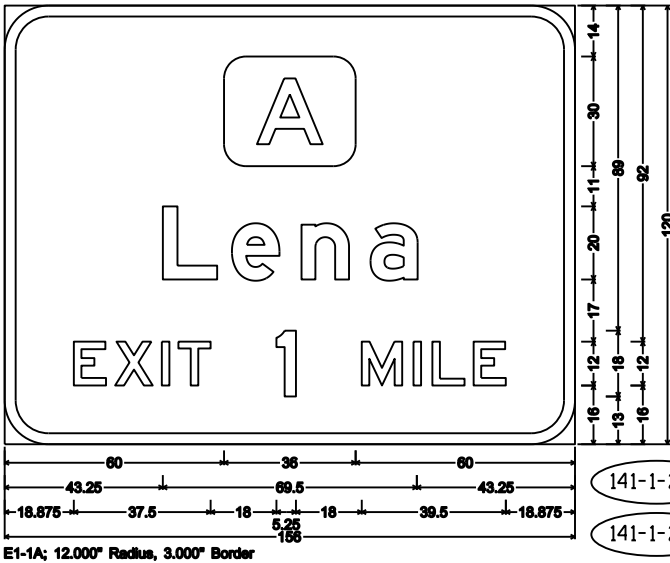
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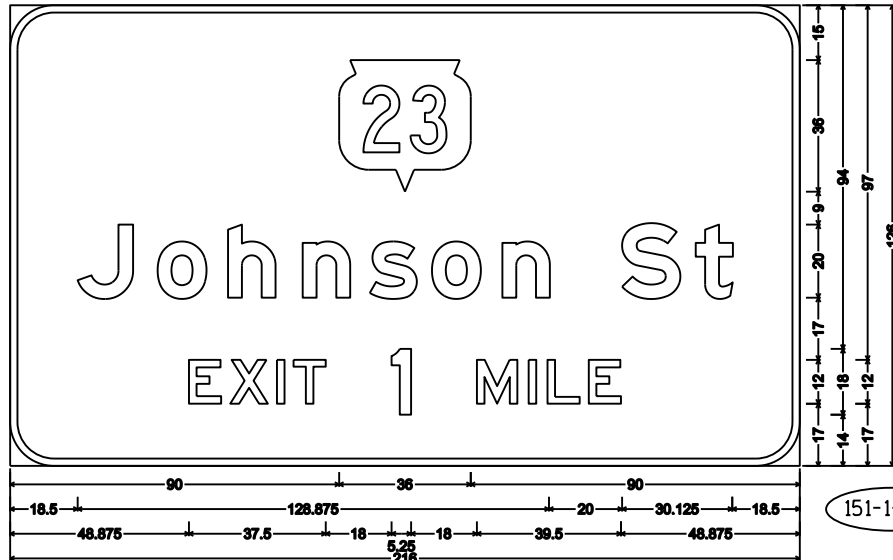
- 1. Sign is Type I - Type SH Reflective
- 2. Color:
Background - Green except as noted
Message - White
- 3. Message Series - E Modified except all Cap Words Series E.
or as noted



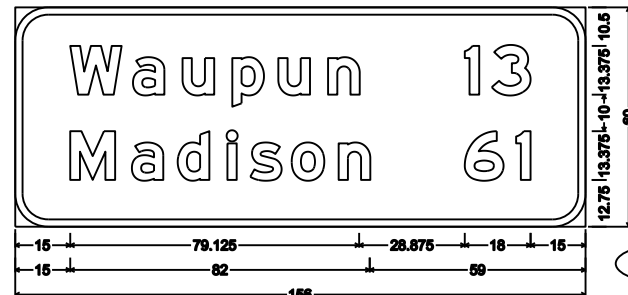
NOTES

- 1. Sign is Type I - Type SH Reflective
- 2. Color:
Background - Green except as noted
Message - White
- 3. Message Series - E Modified except all Cap Words Series E.
or as noted

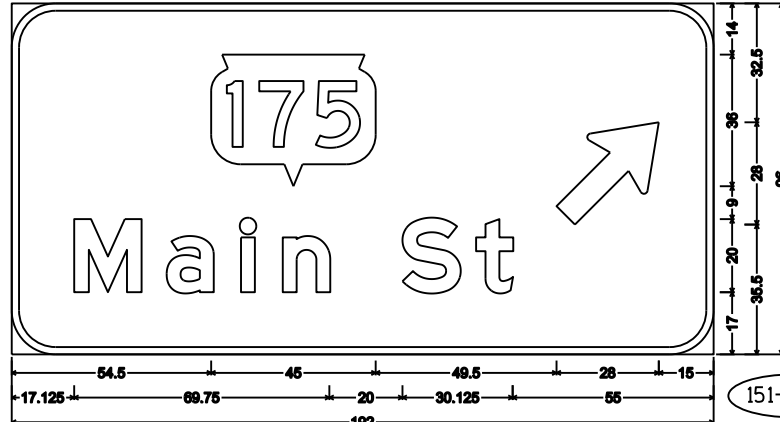




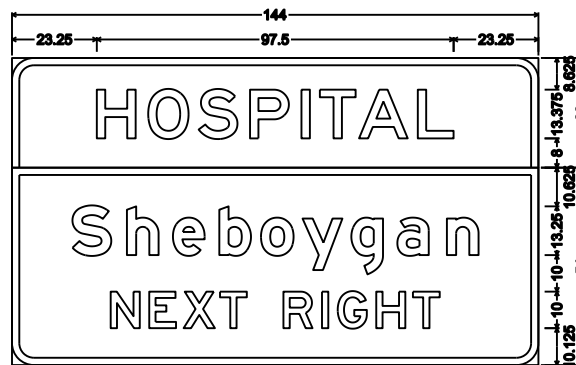
E1-1A; 12.000" Radius, 2.000" Border



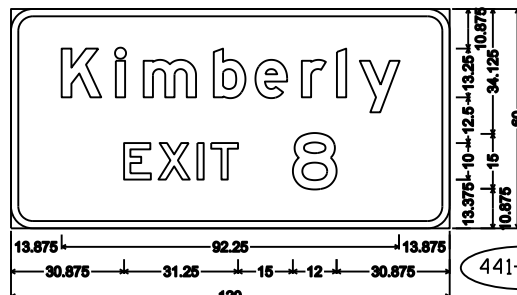
D2-2; 9.000" Radius, 2.000" Border



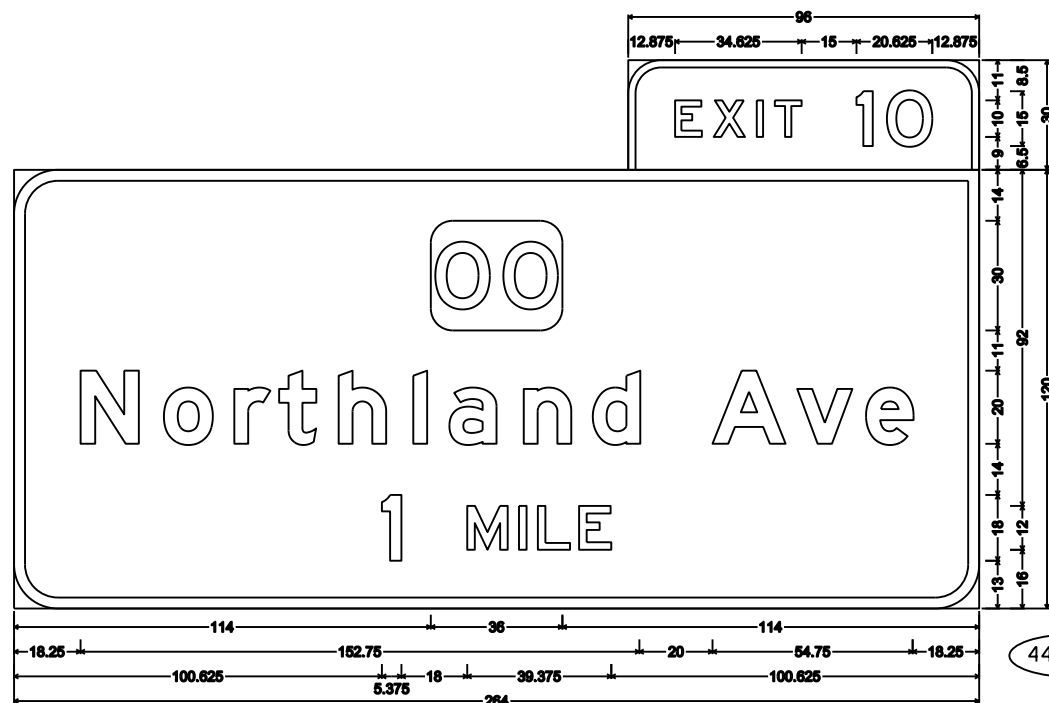
E4-1A; 12.000" Radius, 2.000" Border



E3-1; 6.000" Radius, 2.000" Border, White on Blue;
E3-1; 6.000" Radius, 2.000" Border, White on Green



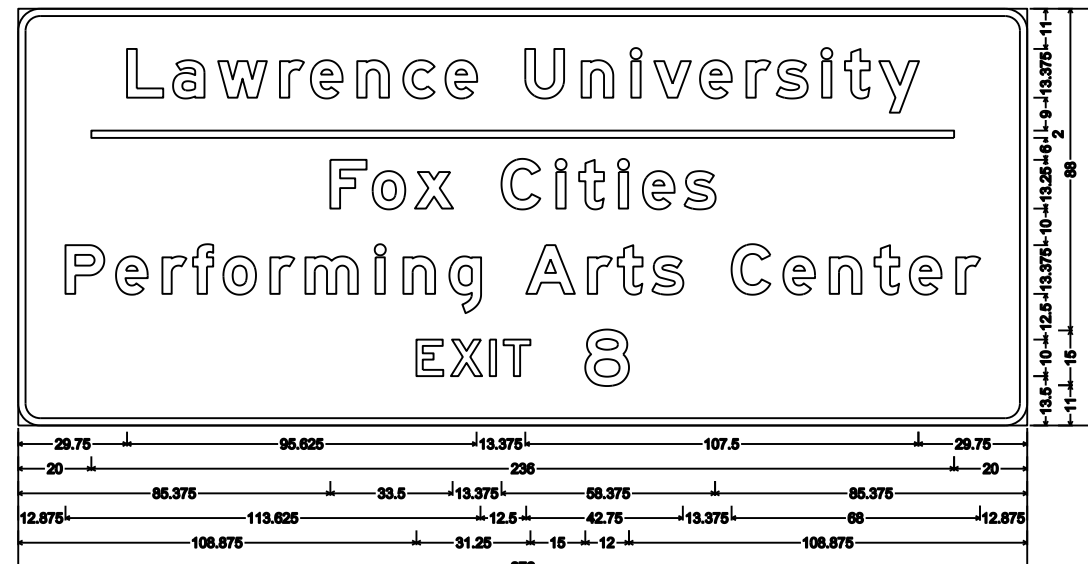
E3-1; 6.000" Radius, 2.000" Border



E1-6P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border

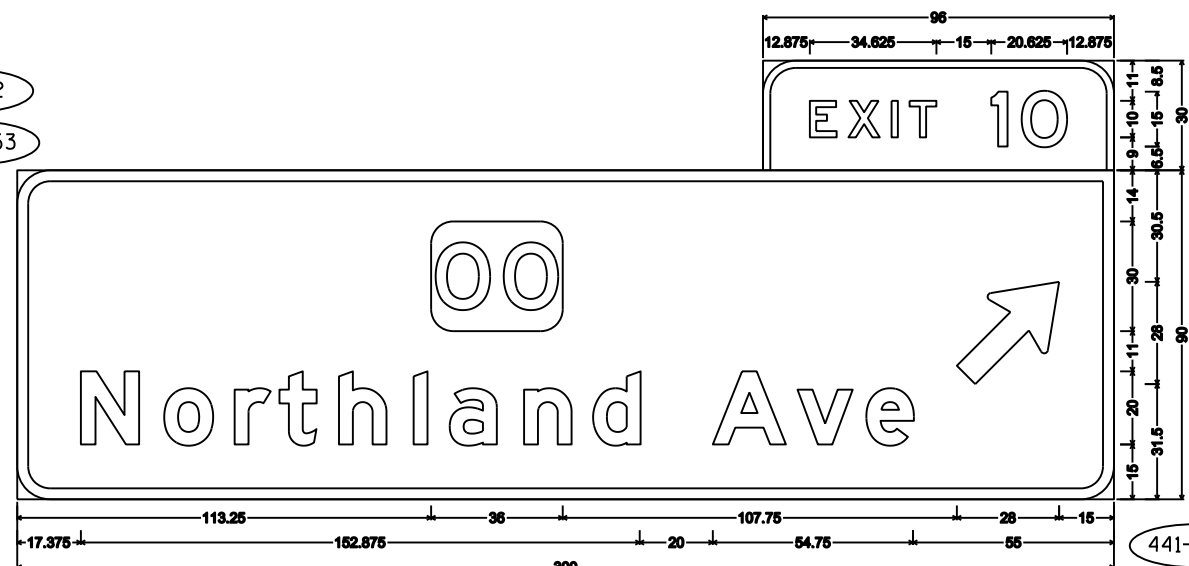
NOTES

1. Sign is Type I - Type SH Reflective
2. Color:
Background - Green except as noted
Message - White
3. Message Series - E Modified except all Cap Words Series E.



441-1-10V

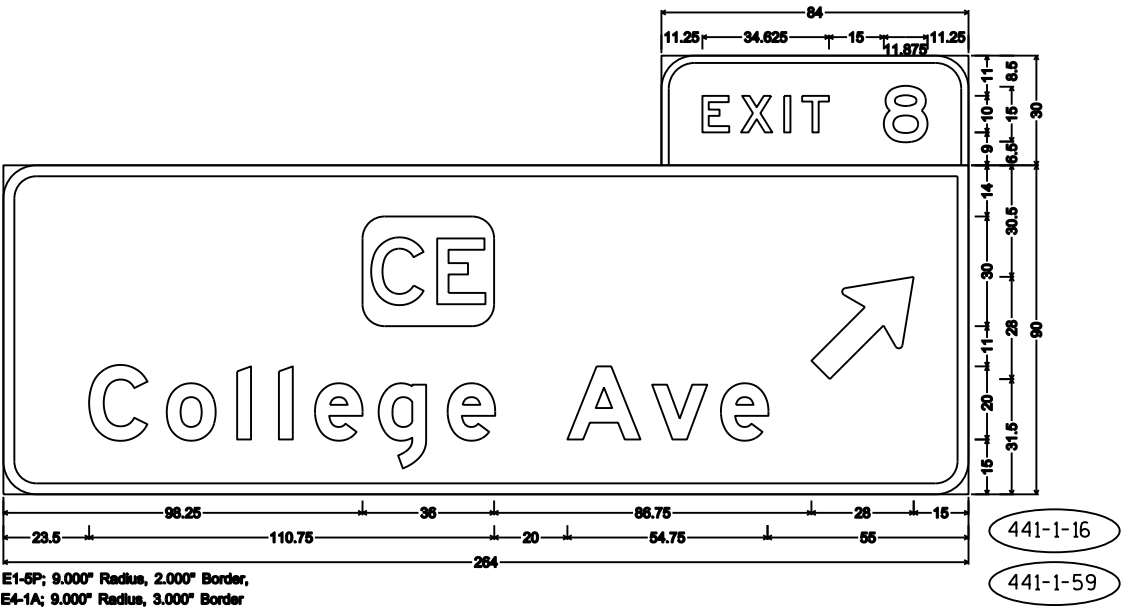
441-1-49V



E1-6P; 9.000" Radius, 2.000" Border,
E4-1A; 9.000" Radius, 3.000" Border

441-1-24

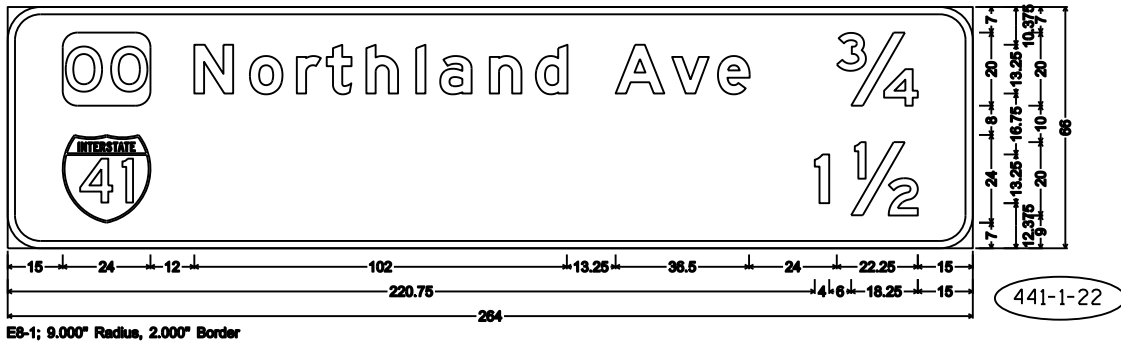
441-1-46



E1-5P; 9.000" Radius, 2.000" Border,
E4-1A; 9.000" Radius, 3.000" Border

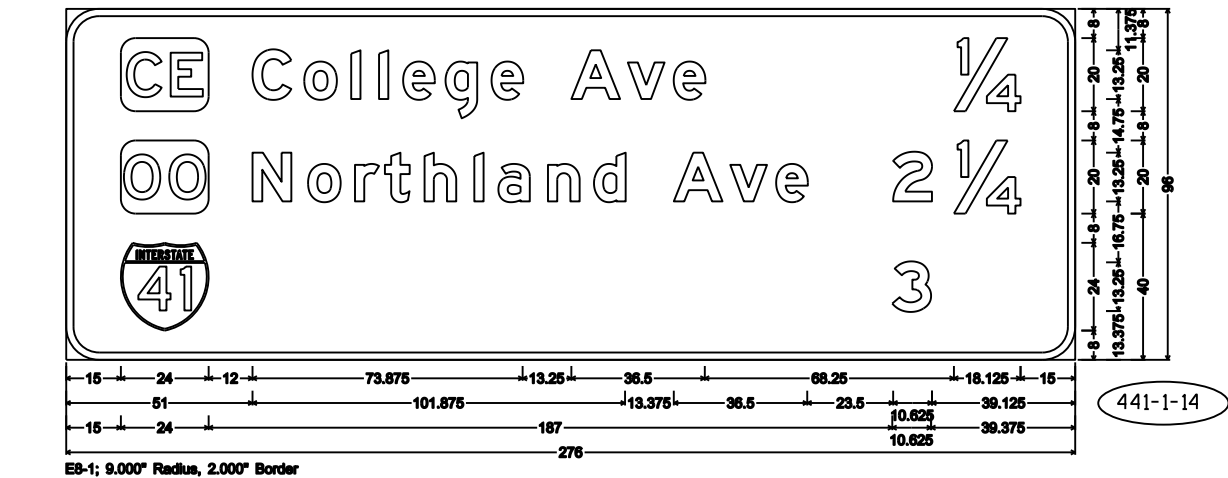
441-1-16

441-1-59



E8-1; 9.000" Radius, 2.000" Border

441-1-22

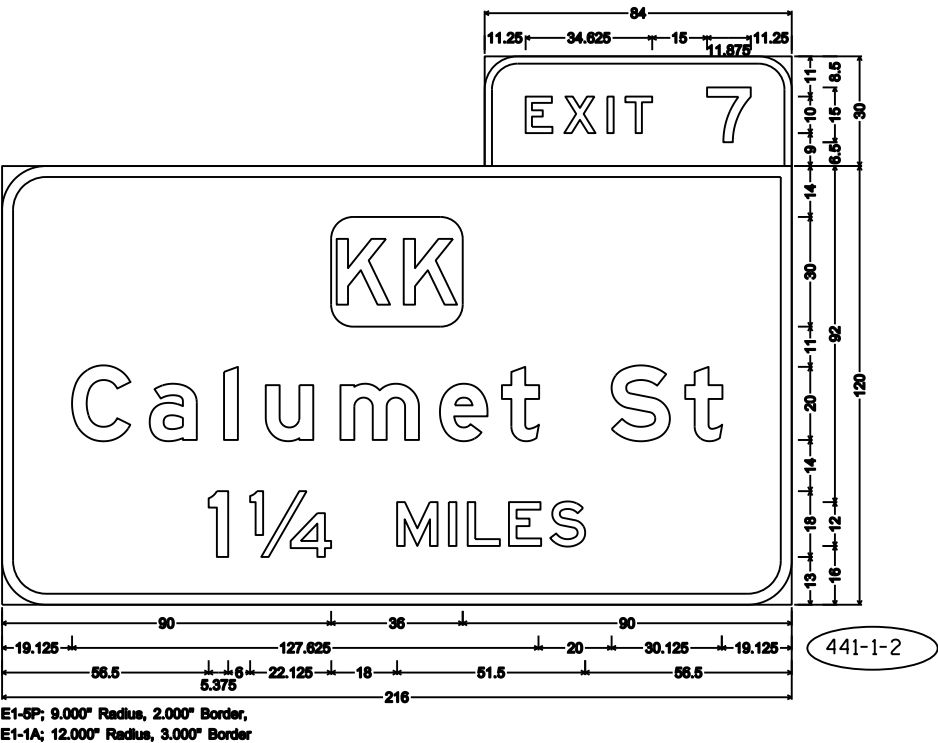


E8-1; 9.000" Radius, 2.000" Border

441-1-14

NOTES

1. Sign is Type I - Type SH Reflective
2. Color:
Background - Green except as noted
Message - White
3. Message Series - E Modified except all Cap Words Series E.
or as noted



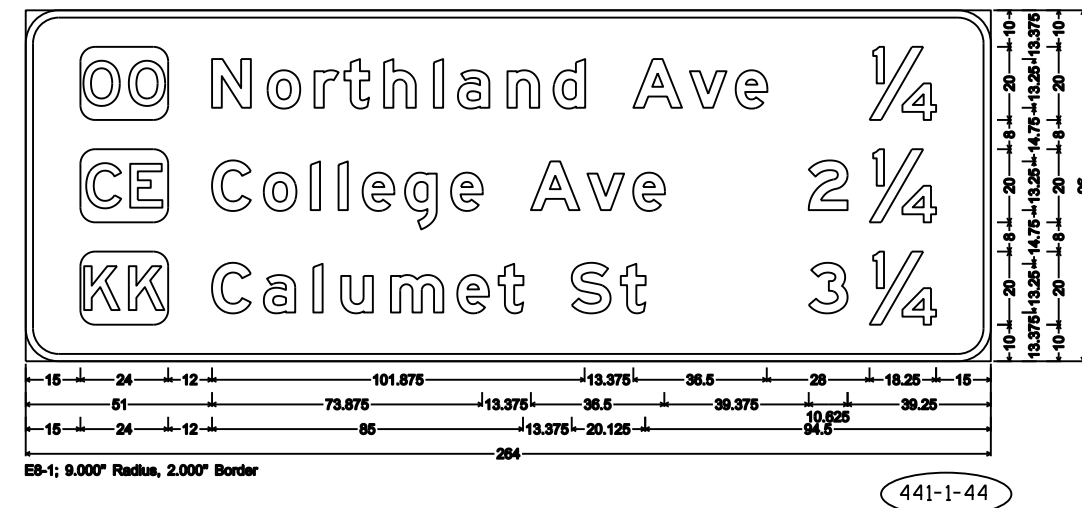
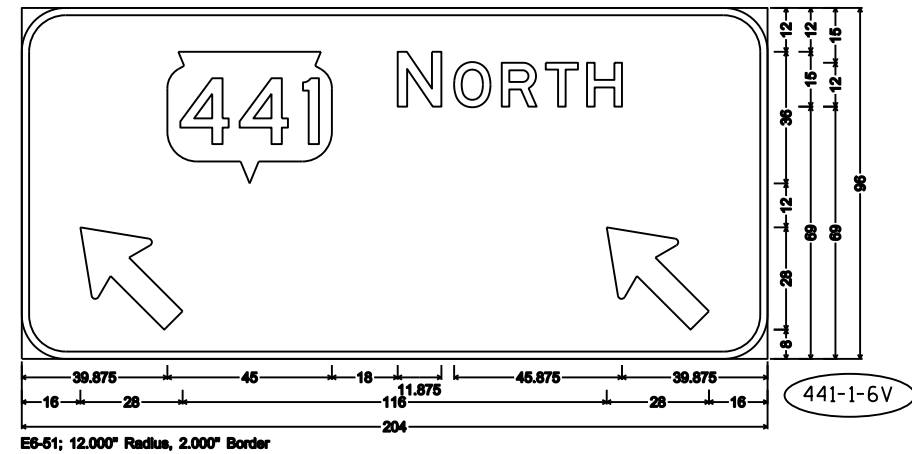
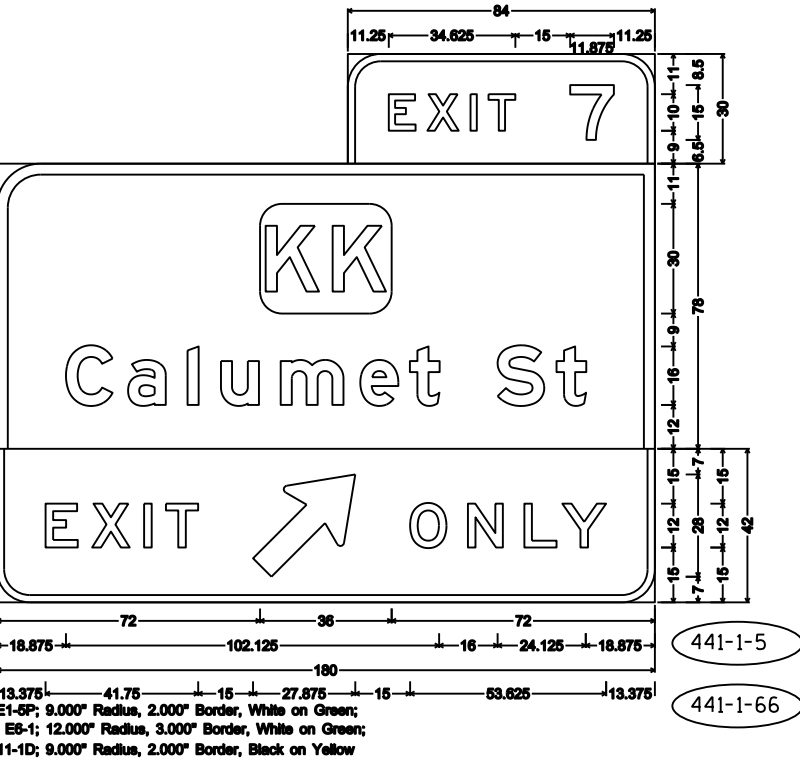
E1-5P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border

441-1-2

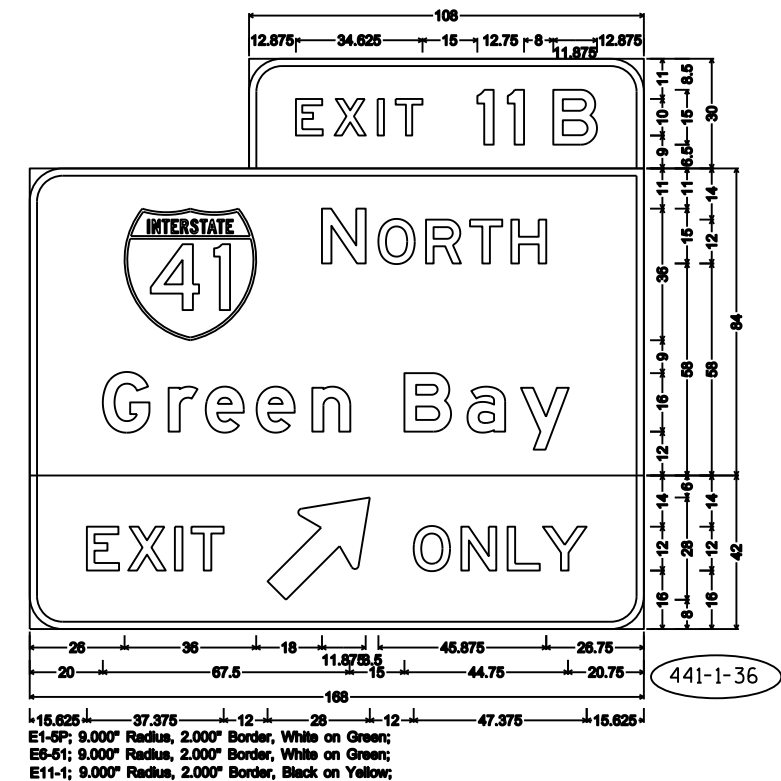
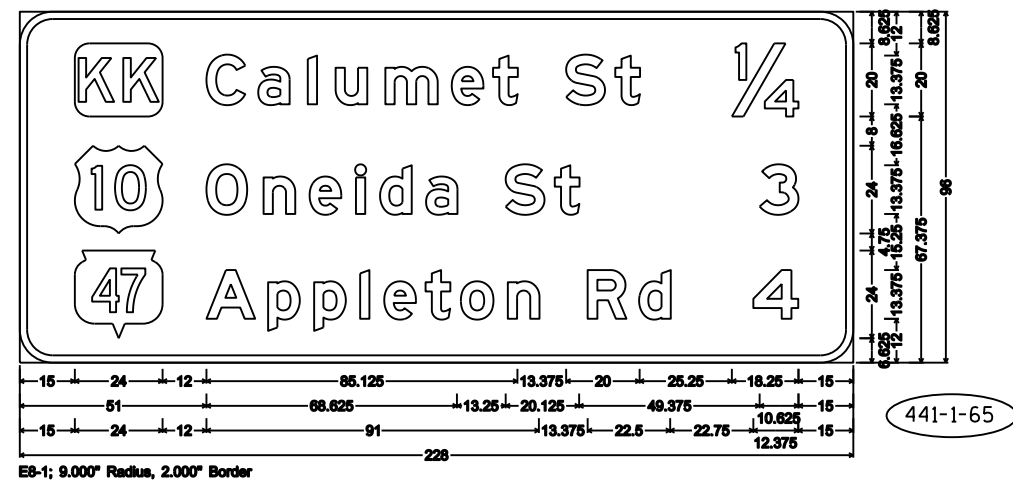
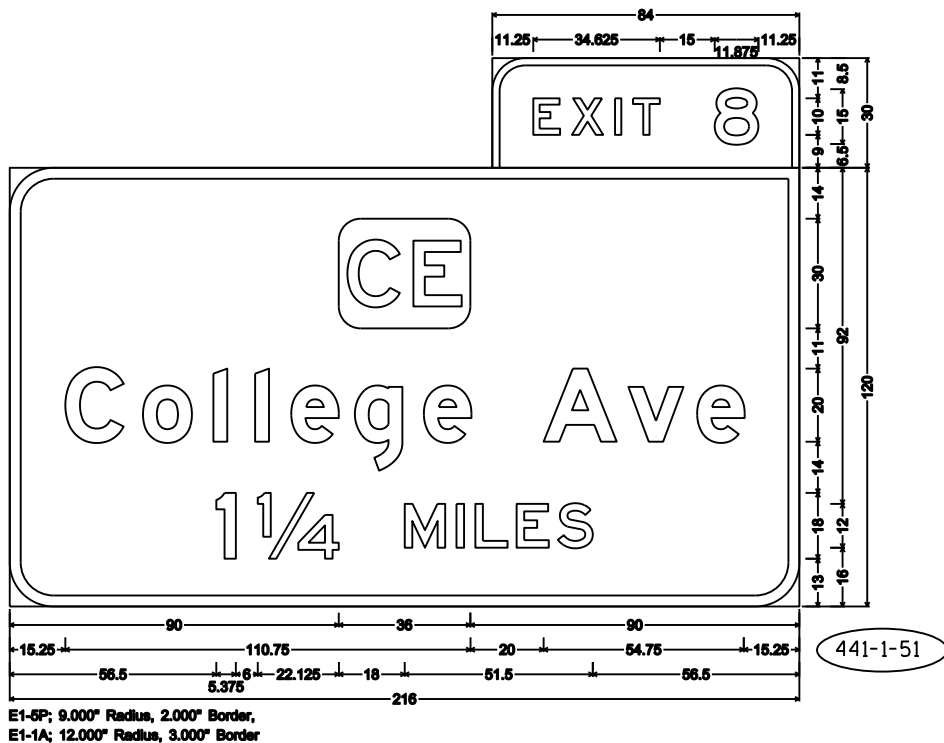
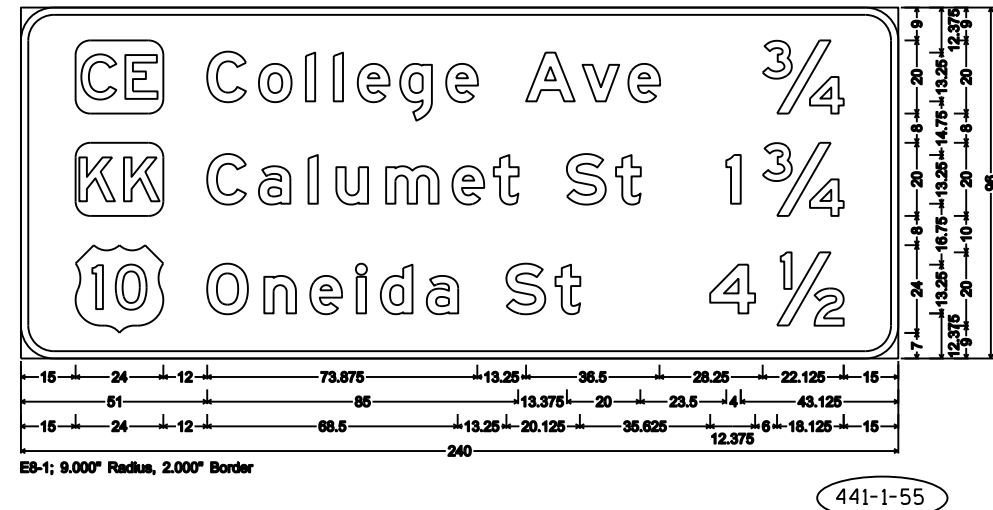


E8-1; 9.000" Radius, 2.000" Border

441-1-4

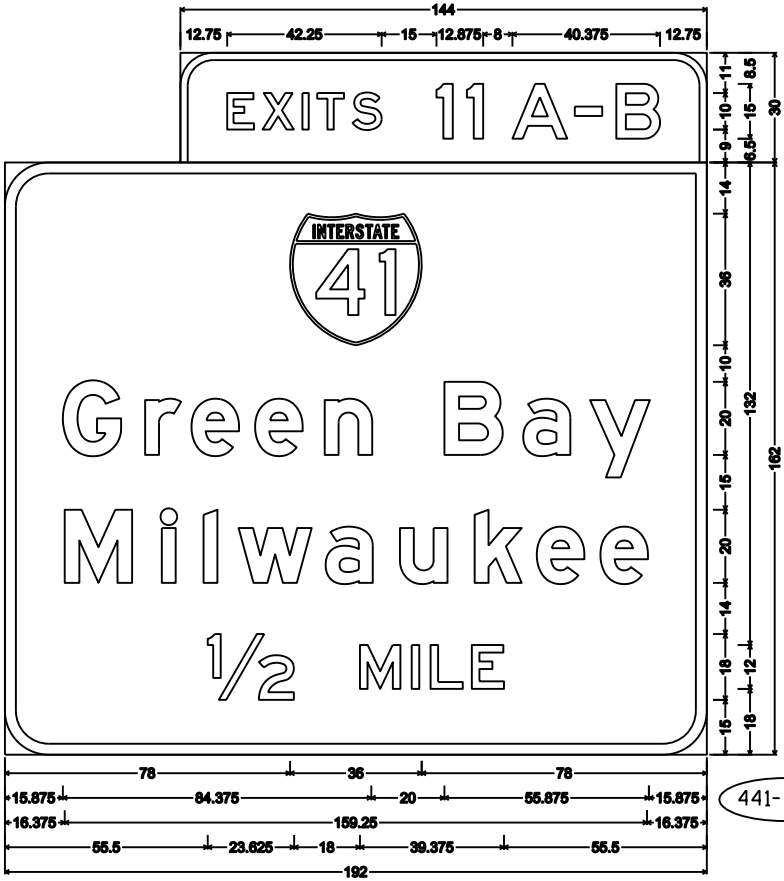


- NOTES
1. Sign is Type I - Type SH Reflective
 2. Color:
Background - Green except as noted
Message - White
 3. Message Series - E Modified except all Cap Words Series E.
or as noted

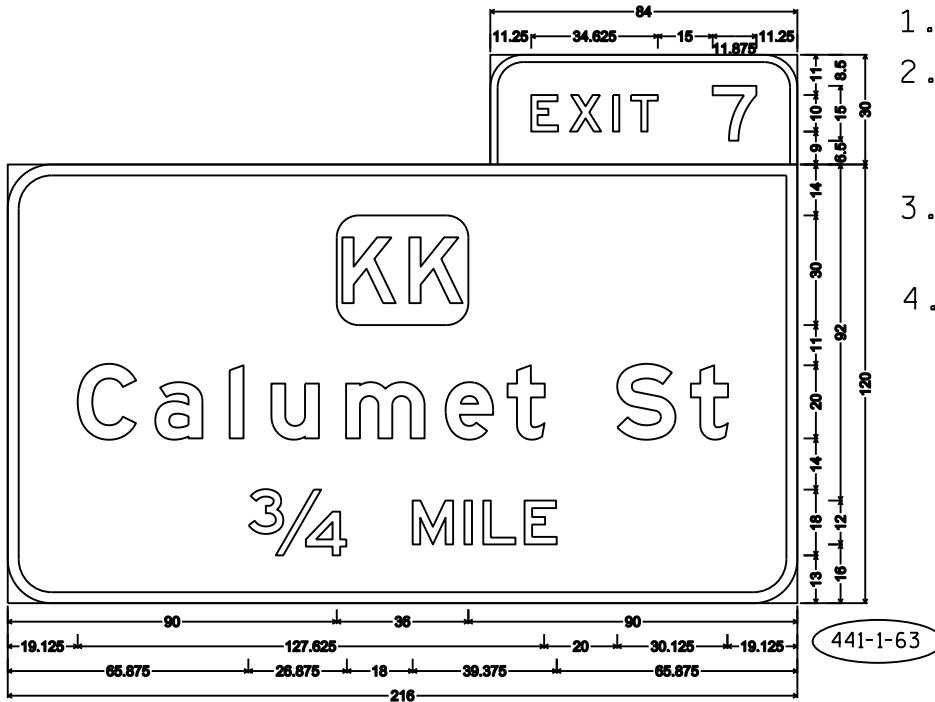


NOTES

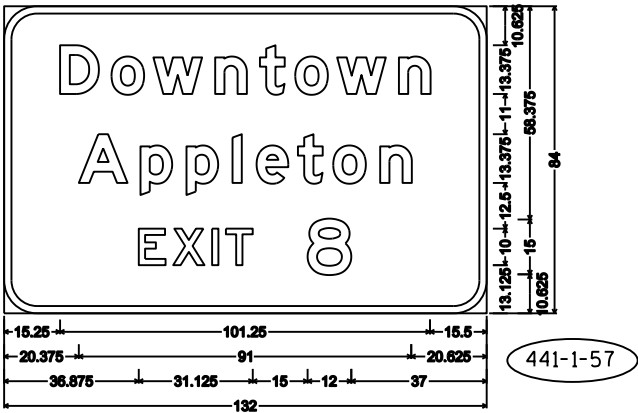
- 1. Sign is Type I - Type SH Reflective
- 2. Color:
Background - Green except as noted
Message - White
- 3. Message Series - E Modified except all Cap Words Series E.
or as noted
- 4. Exit Only Panels Type F Reflective with:
Background - Yellow
Message - Black



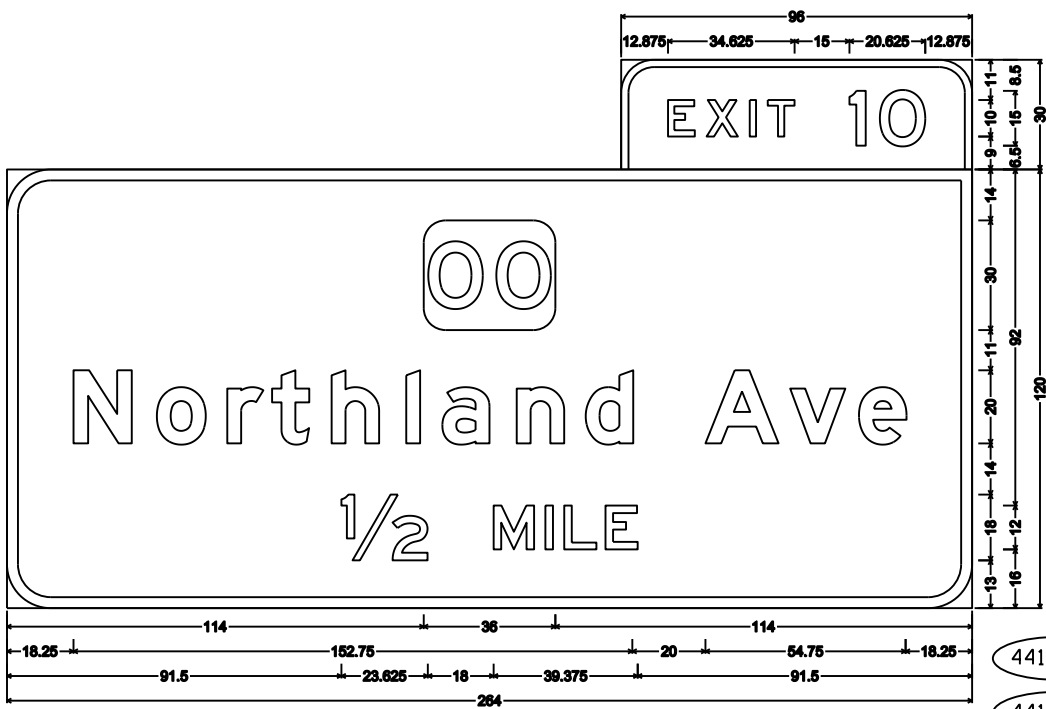
E1-6P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border



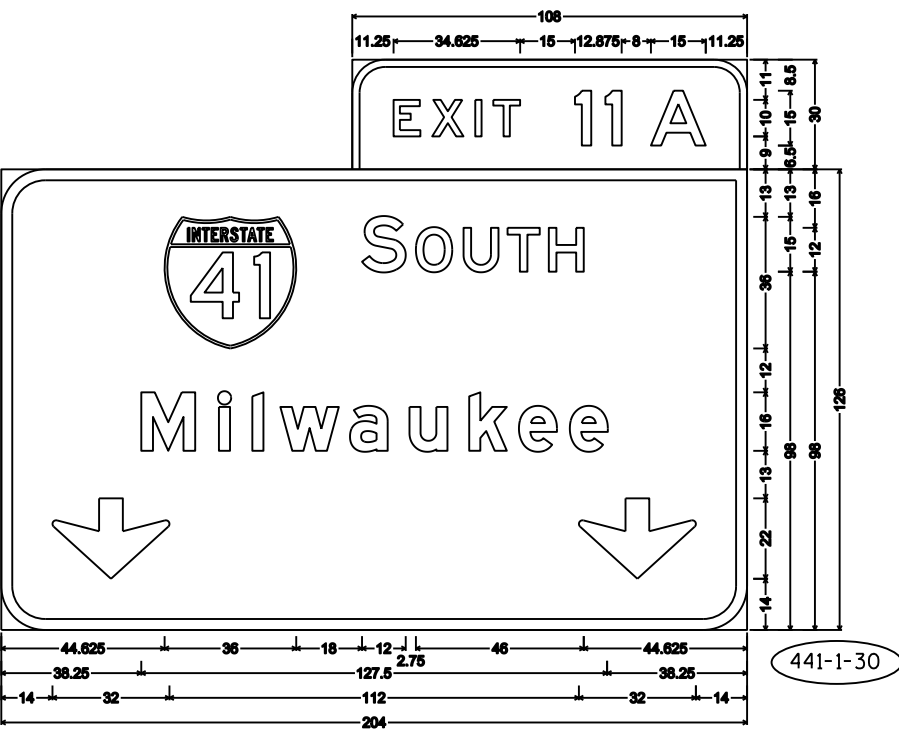
E1-6P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border



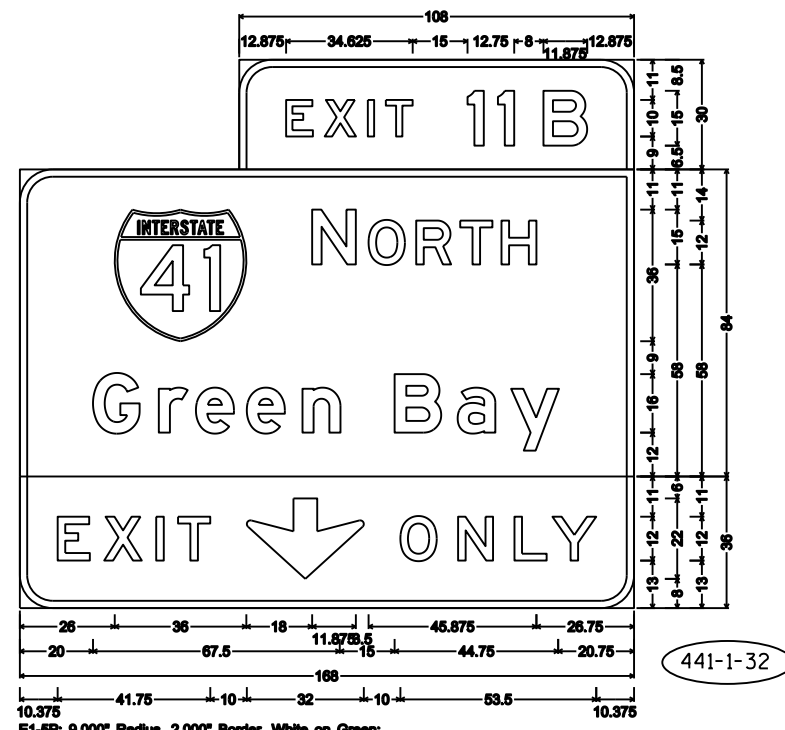
E3-1; 9.000" Radius, 2.000" Border



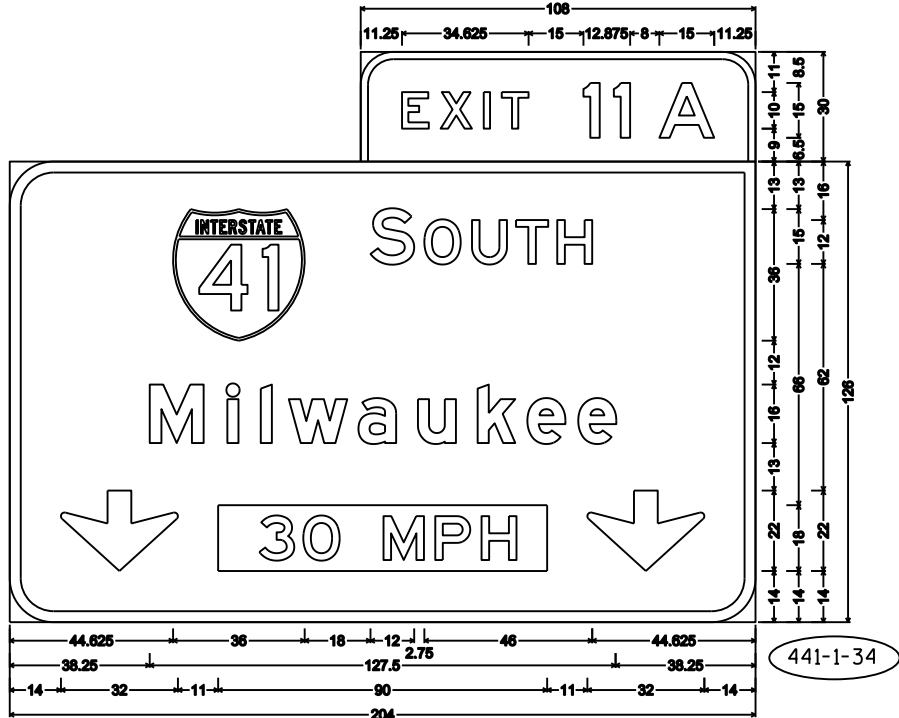
E1-6P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border



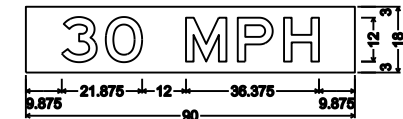
E1-6P; 9.000" Radius, 2.000" Border,
E6-51; 12.000" Radius, 3.000" Border



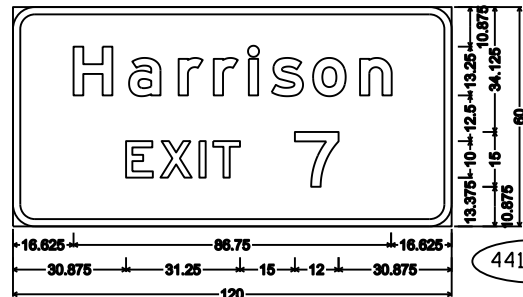
E1-6P; 9.000" Radius, 2.000" Border, White on Green;
E6-51; 9.000" Radius, 2.000" Border, White on Green;
E11-1; 9.000" Radius, 2.000" Border, Black on Yellow



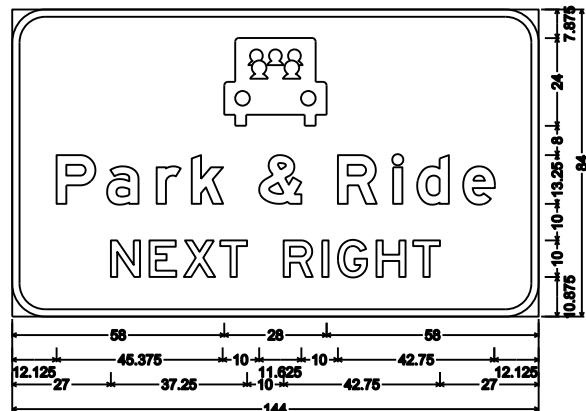
E1-5P; 9.000" Radius, 2.000" Border,
E6-51; 12.000" Radius, 3.000" Border



No border, Black on Yellow;
"30" E; "MPH" E;



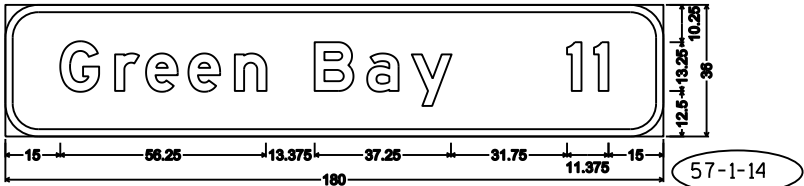
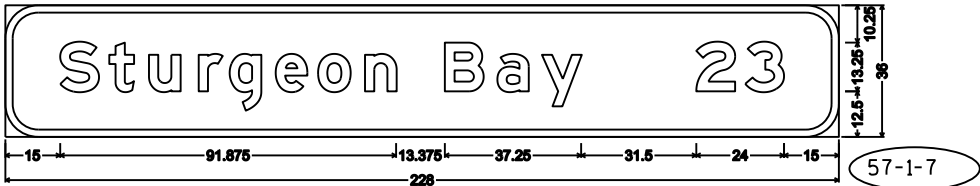
E3-1; 6.000" Radius, 2.000" Border



E9-1; 9.000" Radius, 2.000" Border

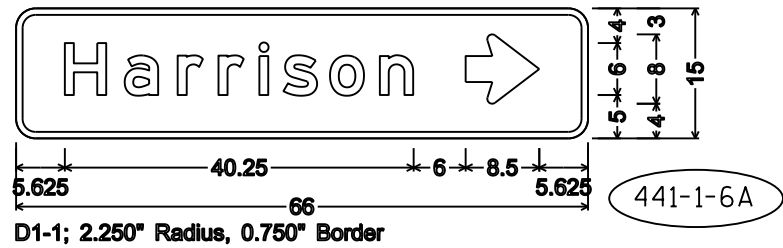
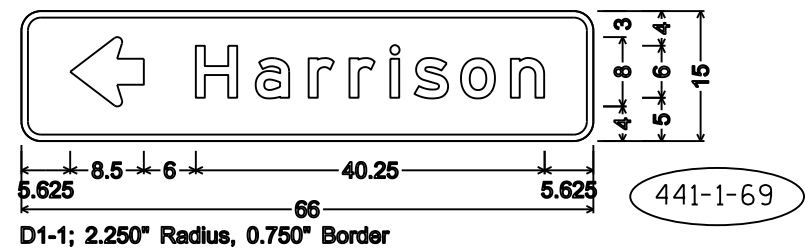
NOTES

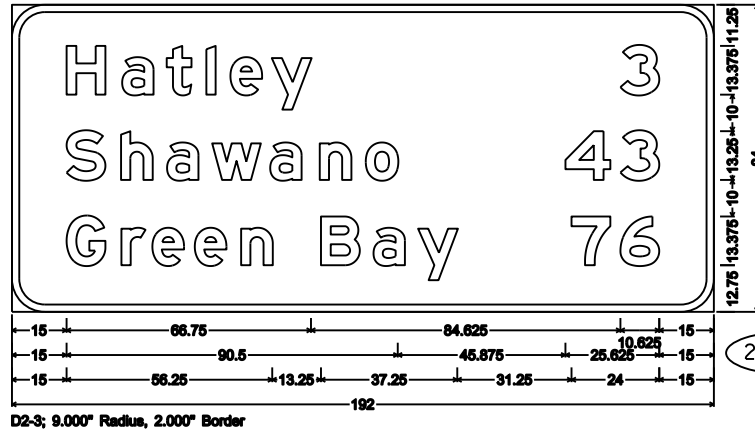
1. Sign is Type I - Type SH Reflective
2. Color:
Background - Green except as noted
Message - White
3. Message Series - E Modified except all Cap Words Series E.
4. Speed Plaque Type F Reflective with:
Background - Yellow
Message - Black



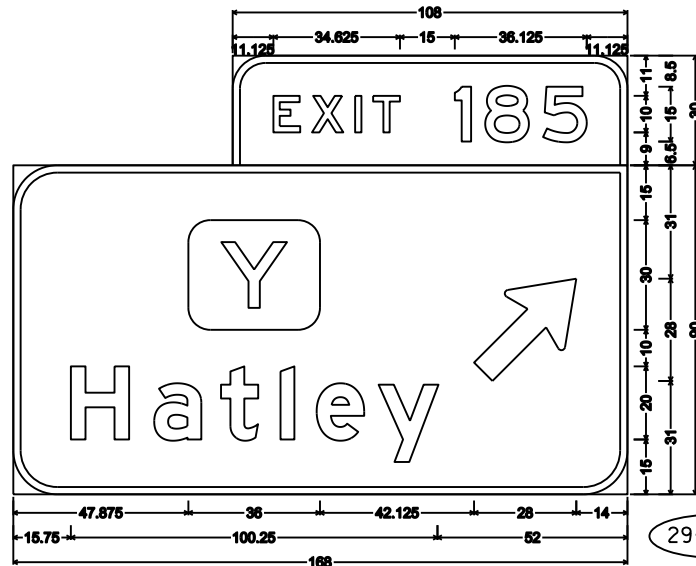
NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
Background - Green
Message - White
- 3. Message Series - E

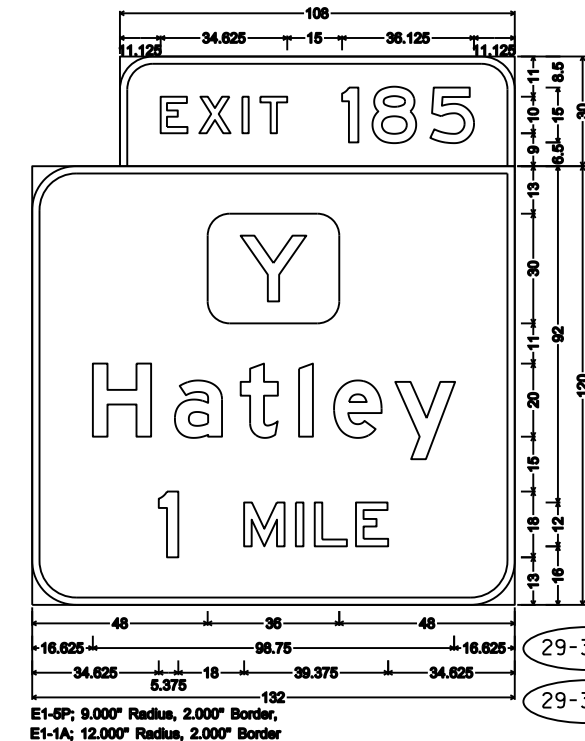




29-3-2

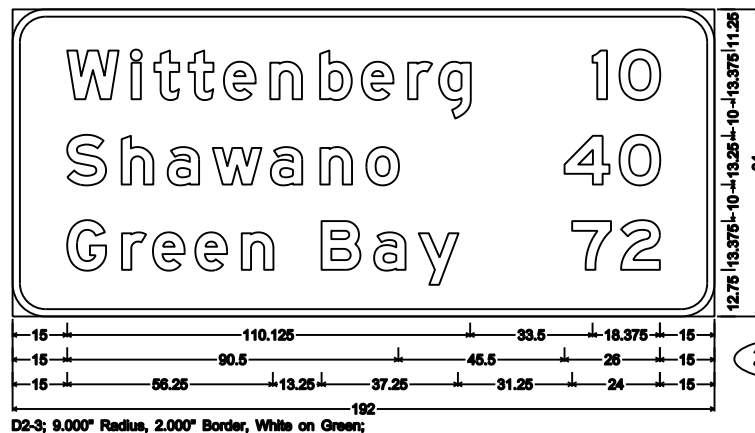


29-3-6

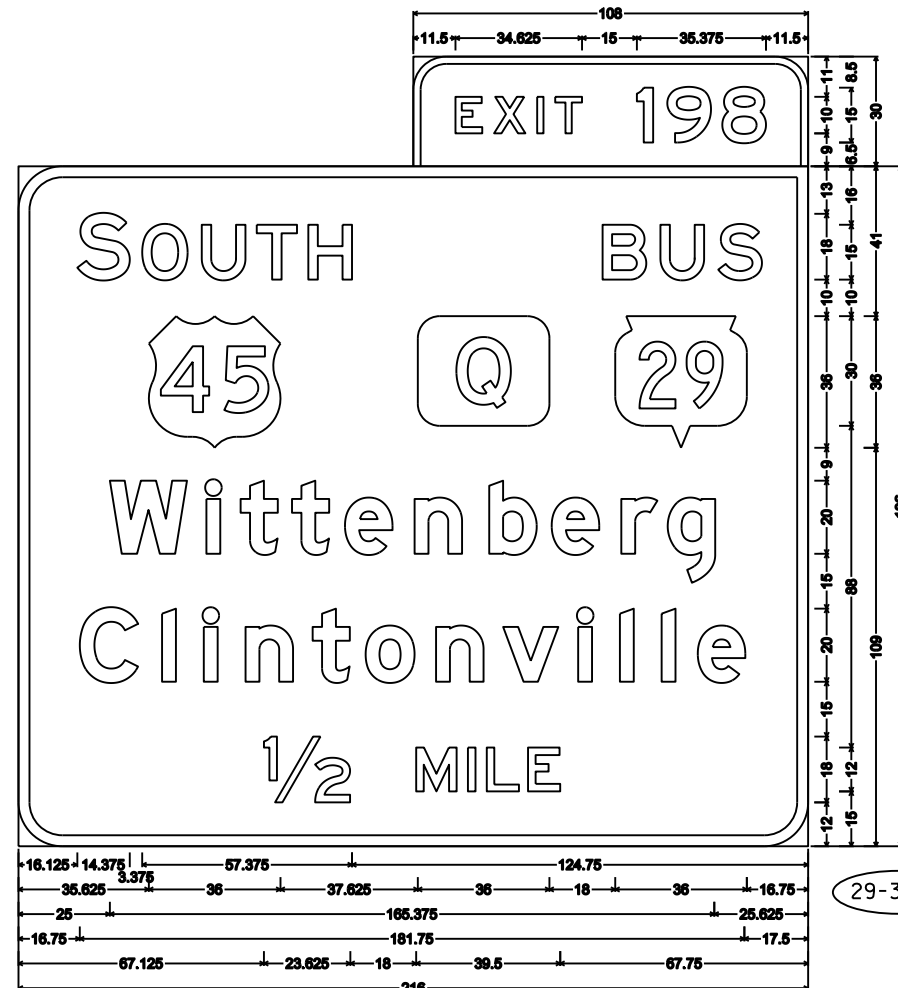


29-3-4

29-3-24



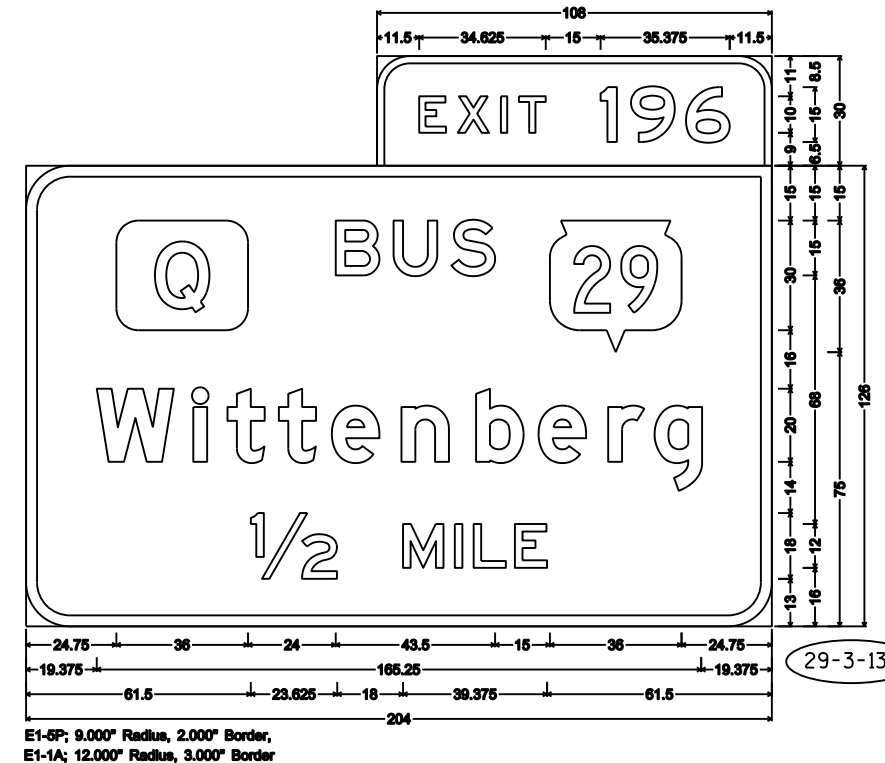
29-3-5



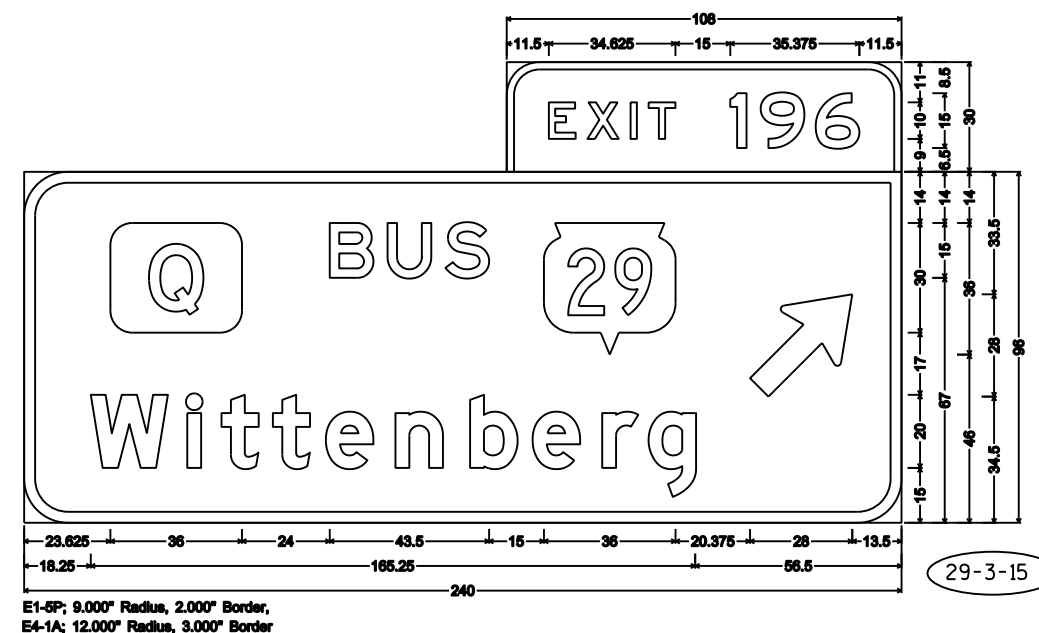
29-3-9

NOTES

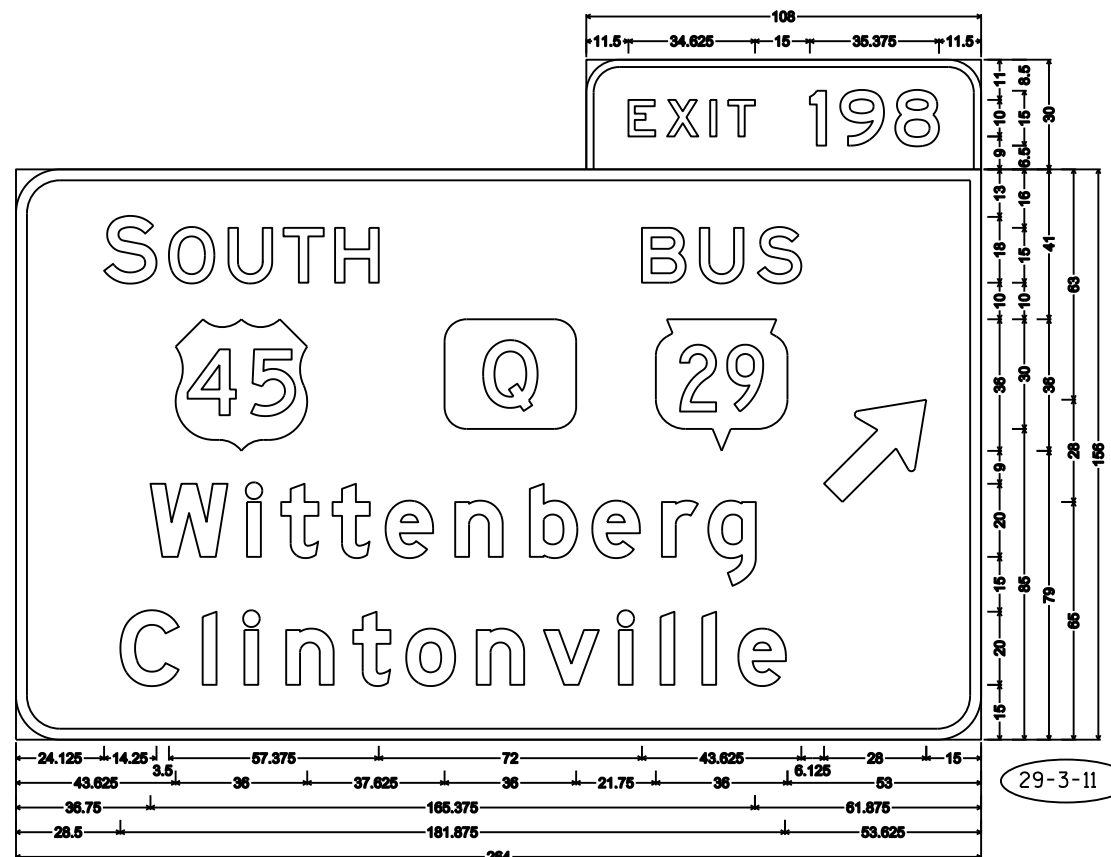
1. Sign is Type I - Type SH Reflective
2. Color:
Background - Green except as noted
Message - White
3. Message Series - E Modified except all Cap Words Series E.
or as noted



29-3-13

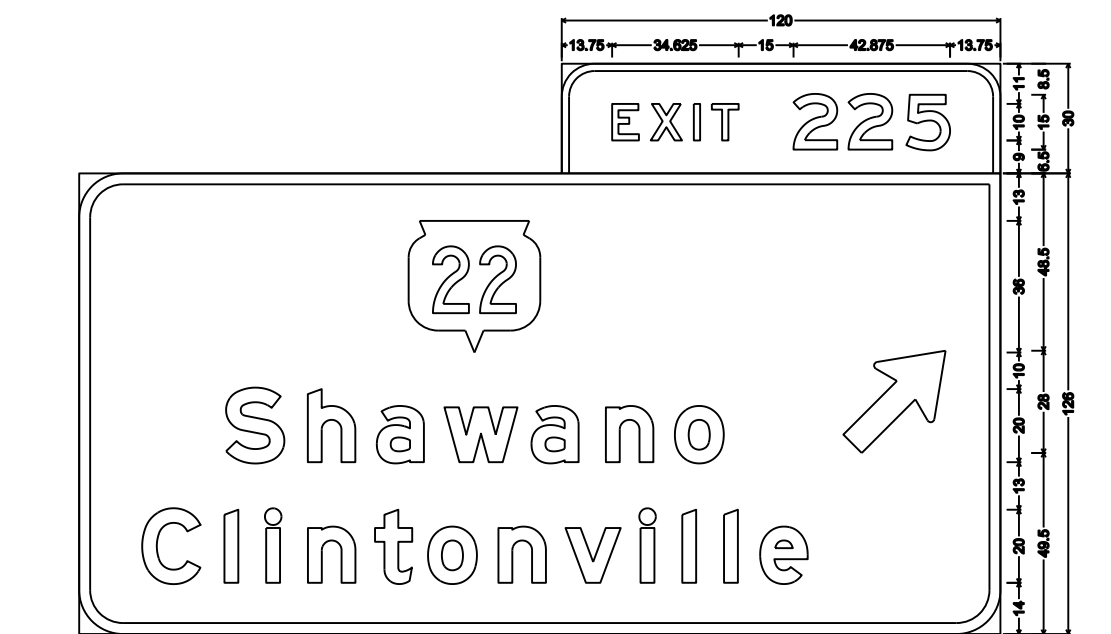


29-3-15



E1-5P: 9.000" Radius, 2.000" Border,
E4-1A: 12.000" Radius, 3.000" Border

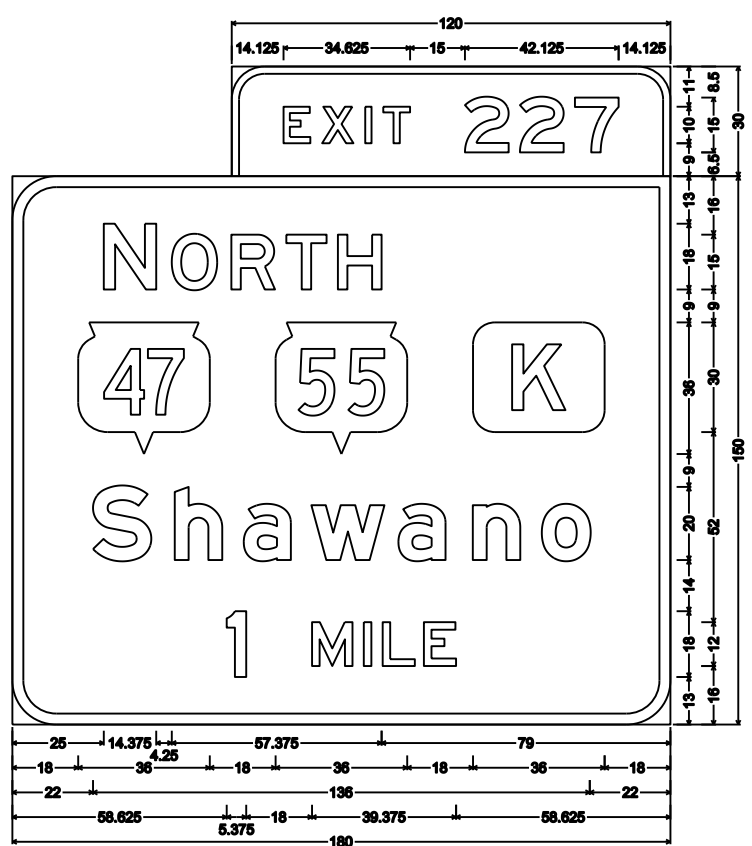
29-3-11



E1-5P: 9.000" Radius, 2.000" Border,
E4-1A: 12.000" Radius, 3.000" Border

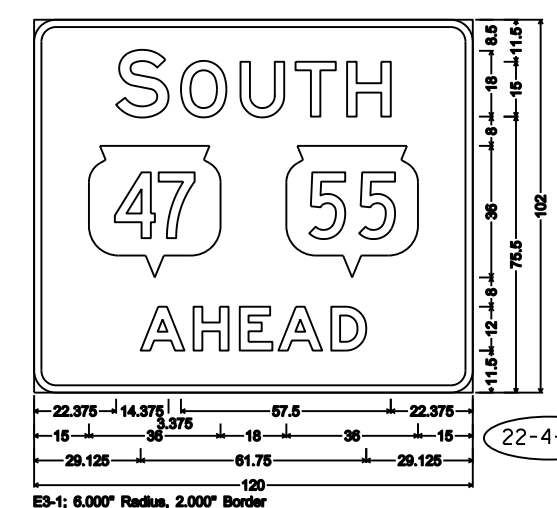
29-4-4

29-4-60



E1-5P: 9.000" Radius, 2.000" Border,
E1-1A: 12.000" Radius, 3.000" Border

29-4-6

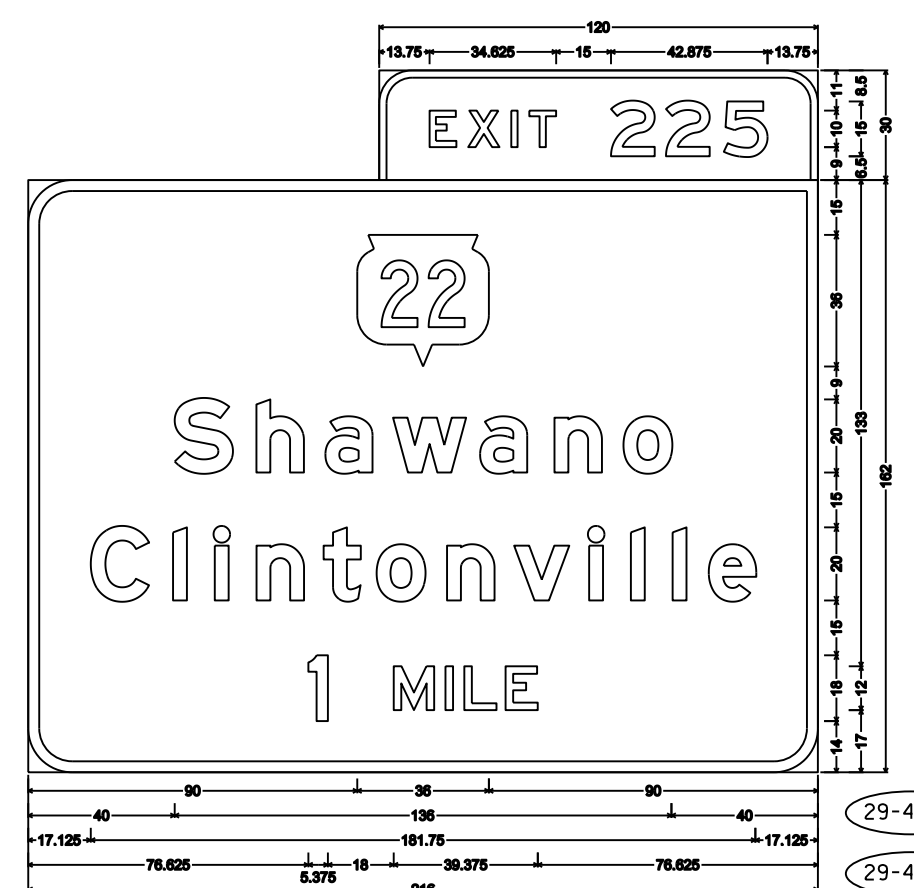


22-4-7

E3-1: 6.000" Radius, 2.000" Border

NOTES

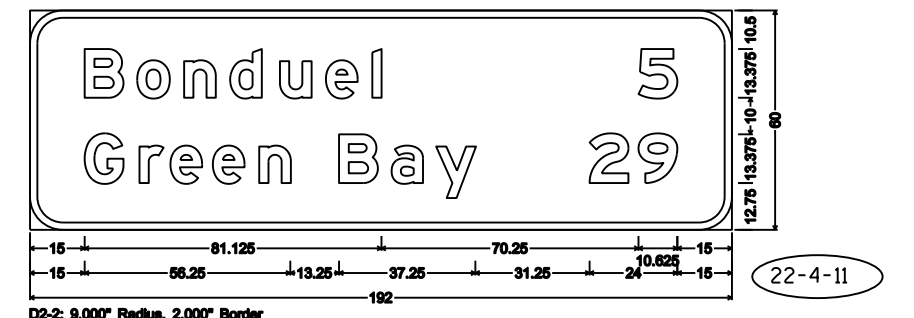
1. Sign is Type I - Type SH Reflective
2. Color:
Background - Green except as noted
Message - White
3. Message Series - E Modified except all Cap Words Series E.
or as noted



E1-5P: 9.000" Radius, 2.000" Border,
E1-1A: 12.000" Radius, 3.000" Border

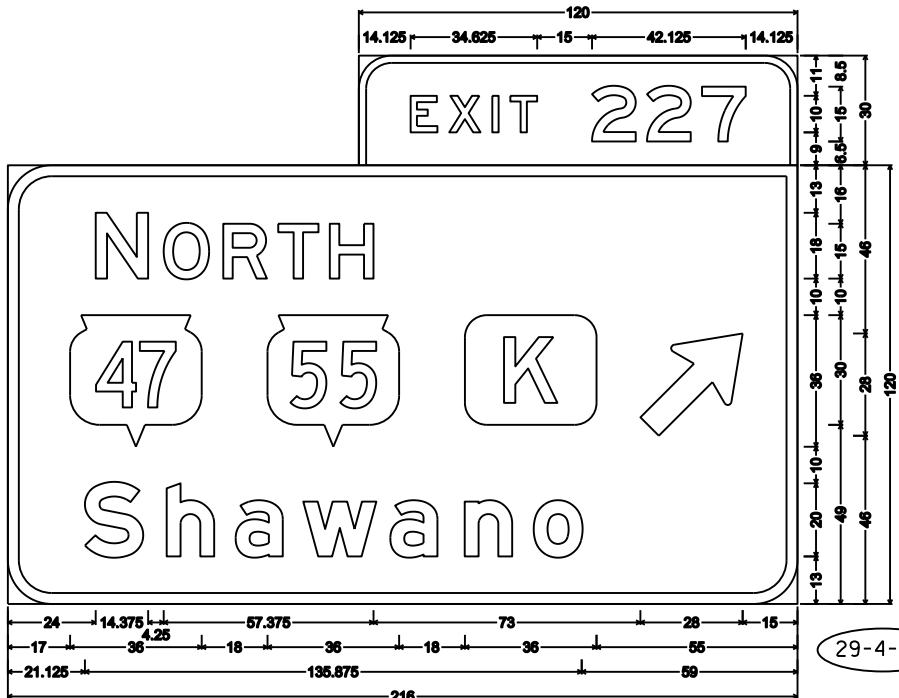
29-4-2

29-4-58



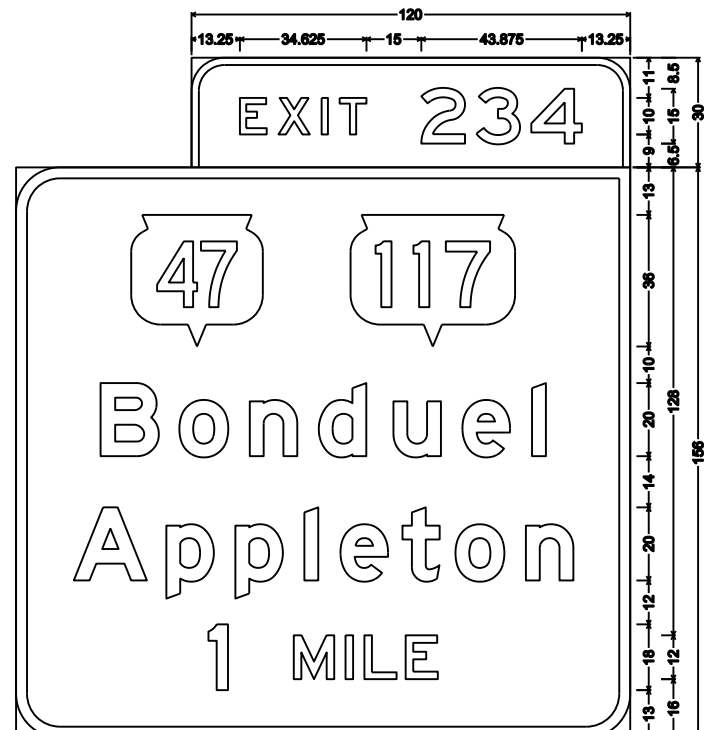
D2-2: 9.000" Radius, 2.000" Border

22-4-11



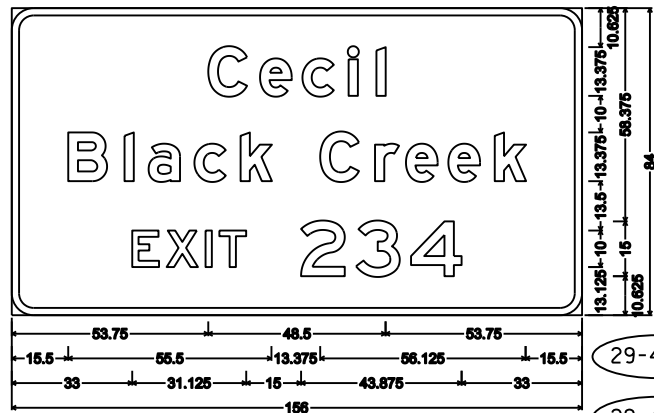
E1-5P; 9.000" Radius, 2.000" Border,
E4-1A; 12.000" Radius, 3.000" Border

29-4-9



E1-5P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border

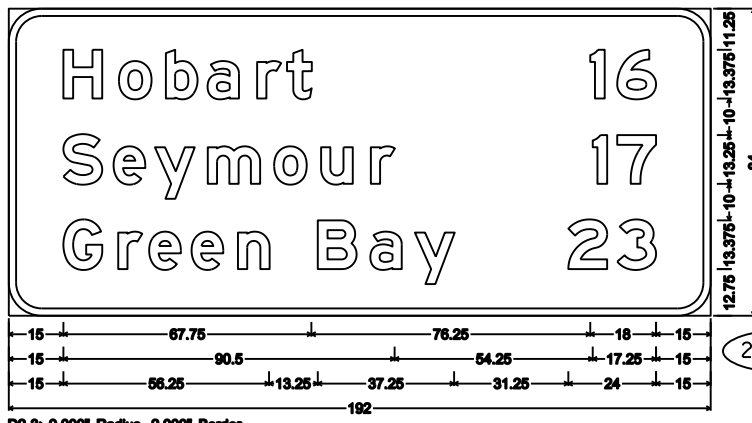
29-4-13



E3-1; 6.000" Radius, 2.000" Border

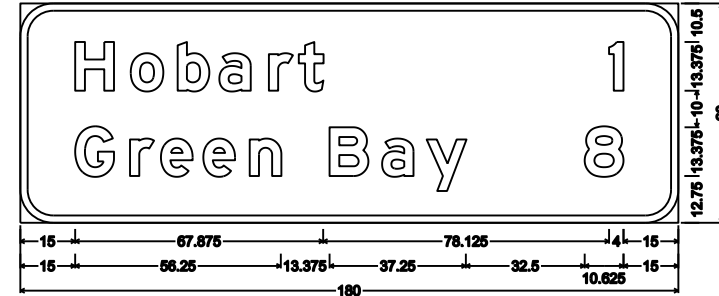
29-4-16

29-4-48



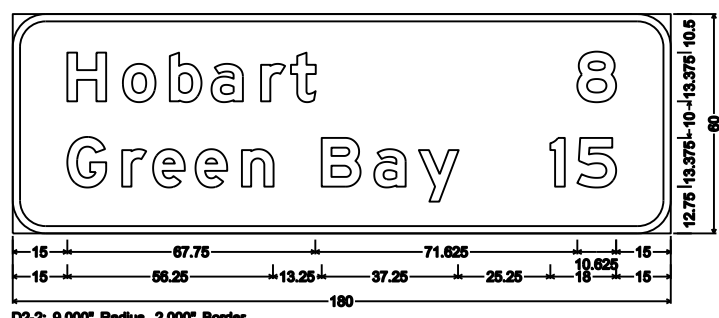
D2-3; 9.000" Radius, 2.000" Border

29-4-20



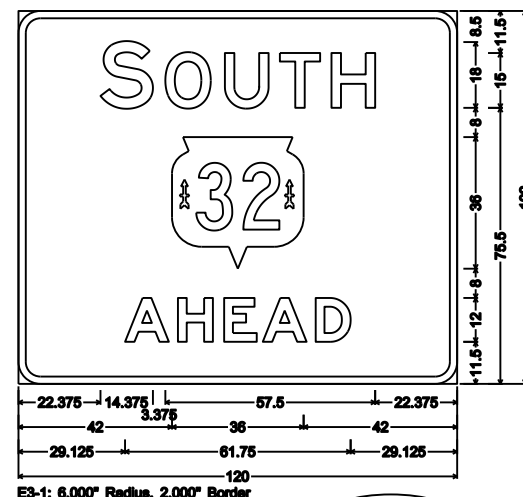
D2-2; 9.000" Radius, 2.000" Border

29-4-30



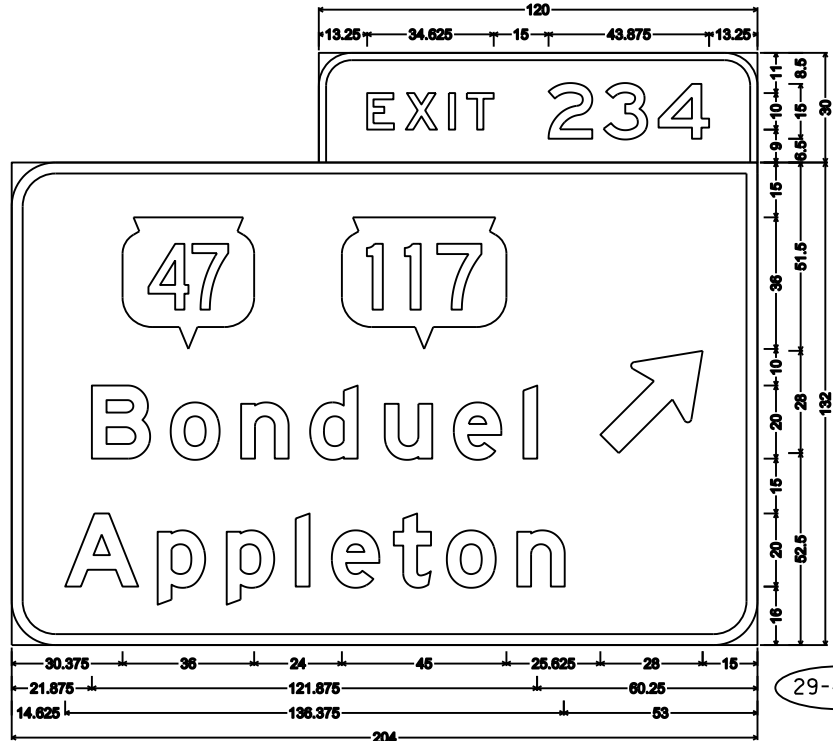
D2-2; 9.000" Radius, 2.000" Border

29-4-27



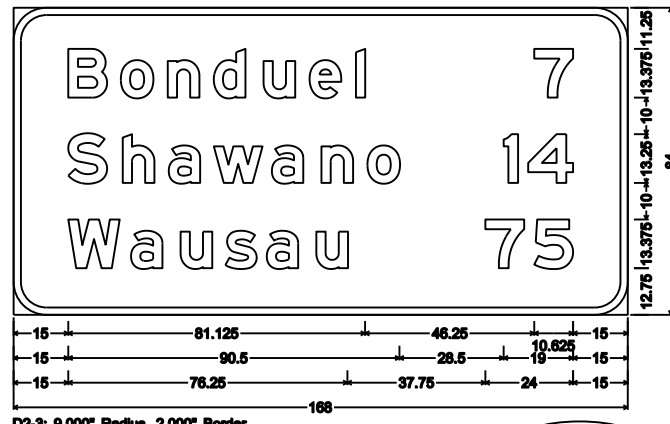
E3-1; 6.000" Radius, 2.000" Border

29-4-28



E1-5P; 9.000" Radius, 2.000" Border,
E4-1A; 12.000" Radius, 3.000" Border

29-4-18



D2-3; 9.000" Radius, 2.000" Border

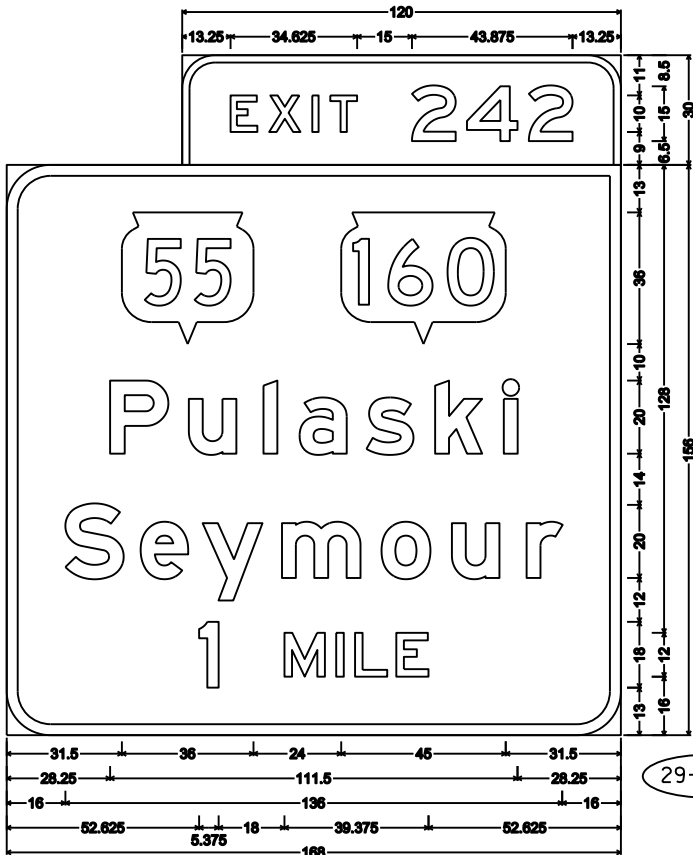
29-4-41

NOTES

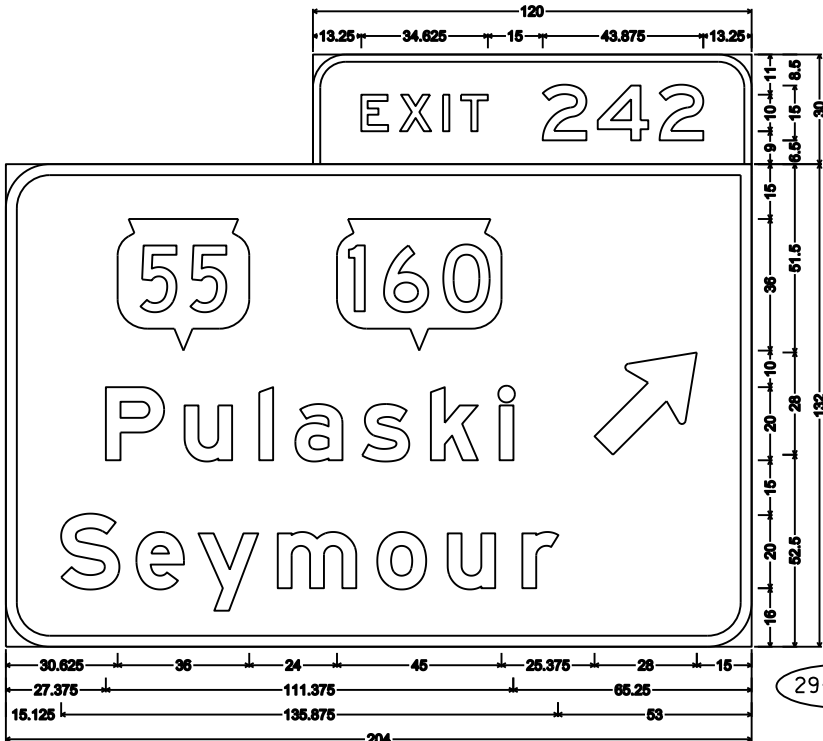
1. Sign is Type I - Type SH Reflective
2. Color:
Background - Green except as noted
Message - White
3. Message Series - E Modified except all Cap Words Series E.
or as noted

NOTES

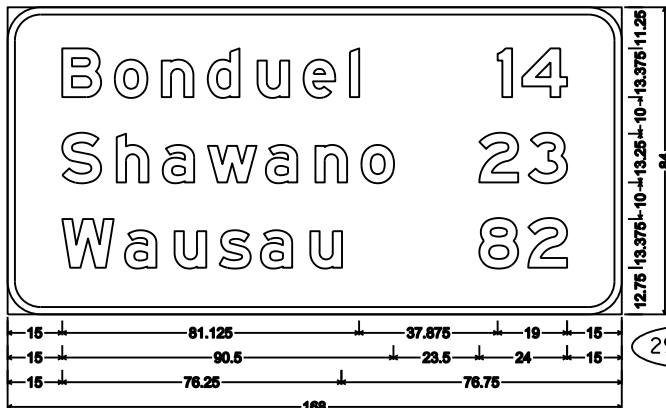
- 1. Sign is Type I - Type SH Reflective
- 2. Color:
Background - Green except as noted
Message - White
- 3. Message Series - E Modified except all Cap Words Series E.
or as noted



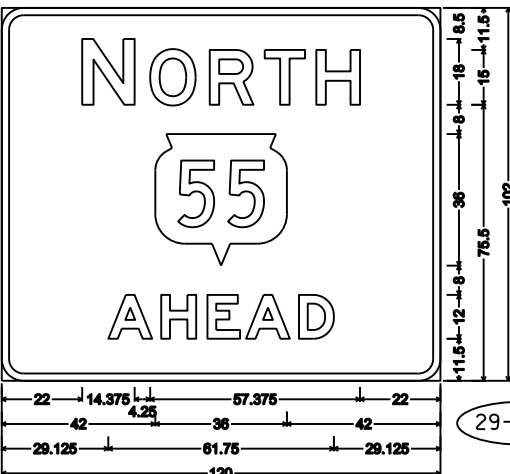
29-4-22



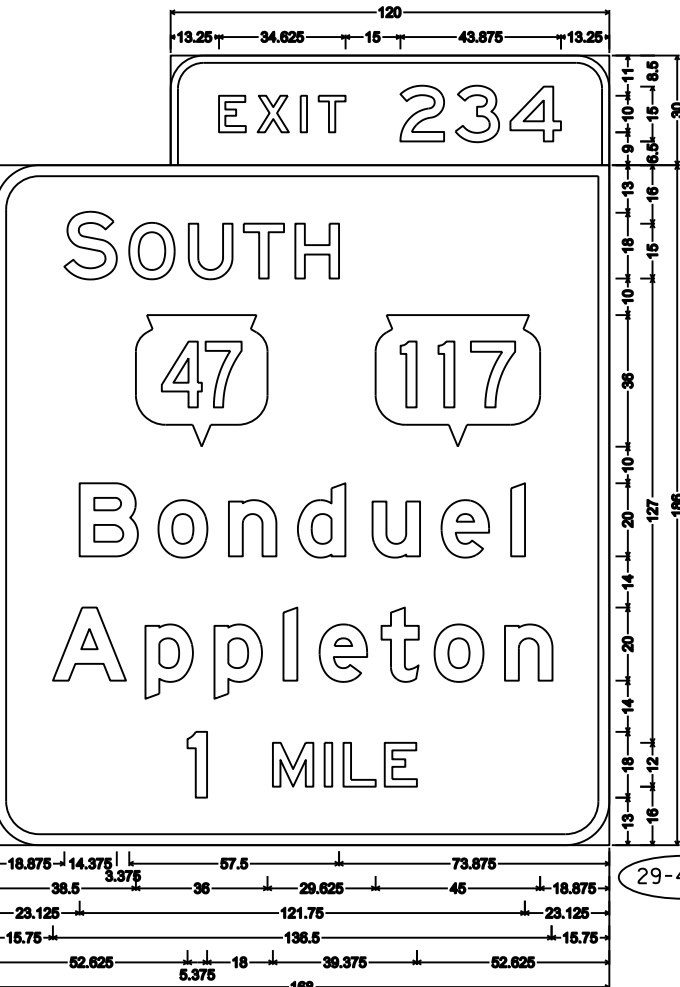
29-4-25



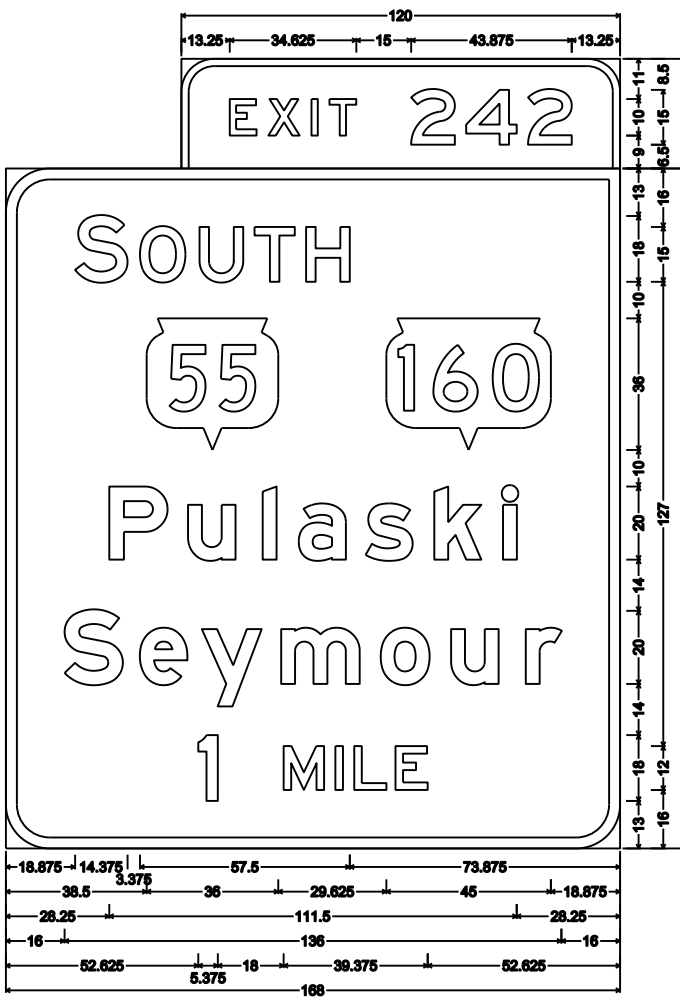
29-4-32



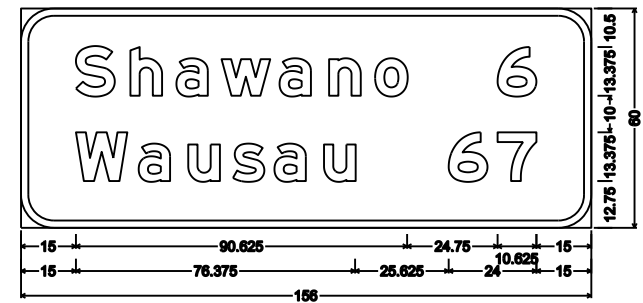
29-4-37



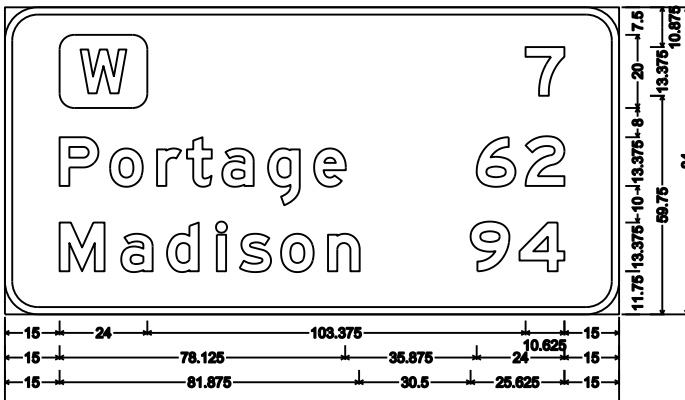
29-4-43



29-4-34



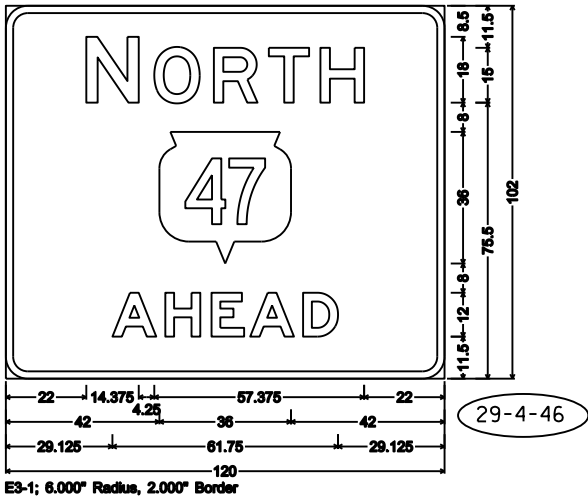
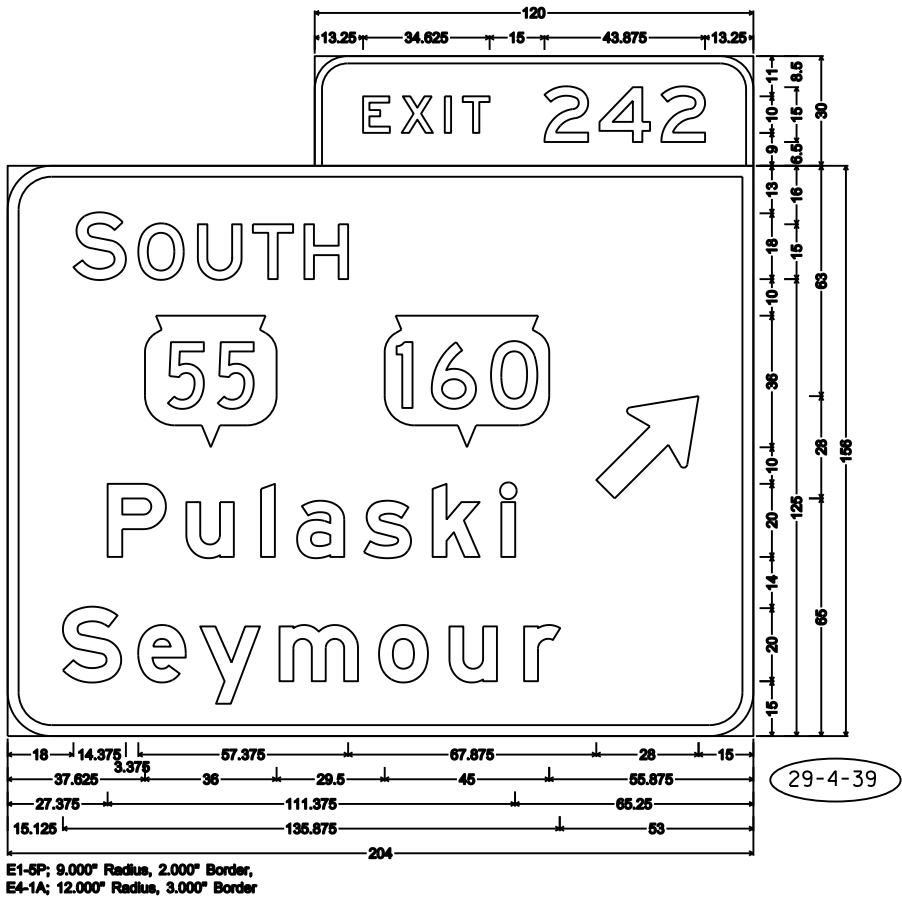
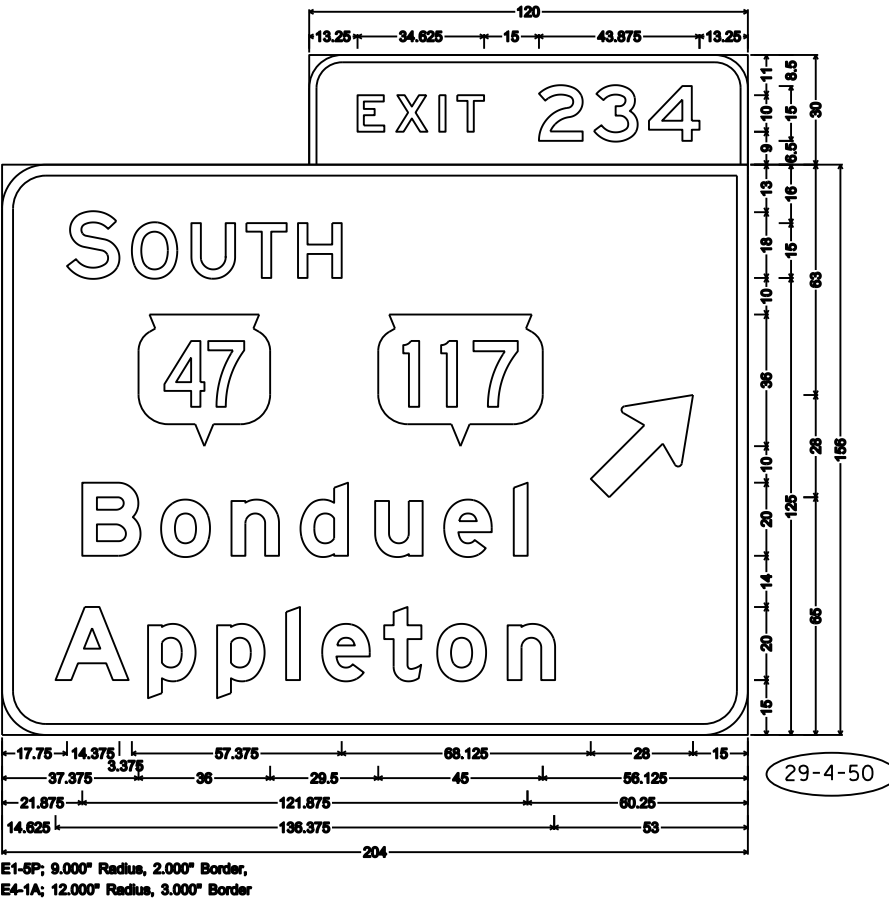
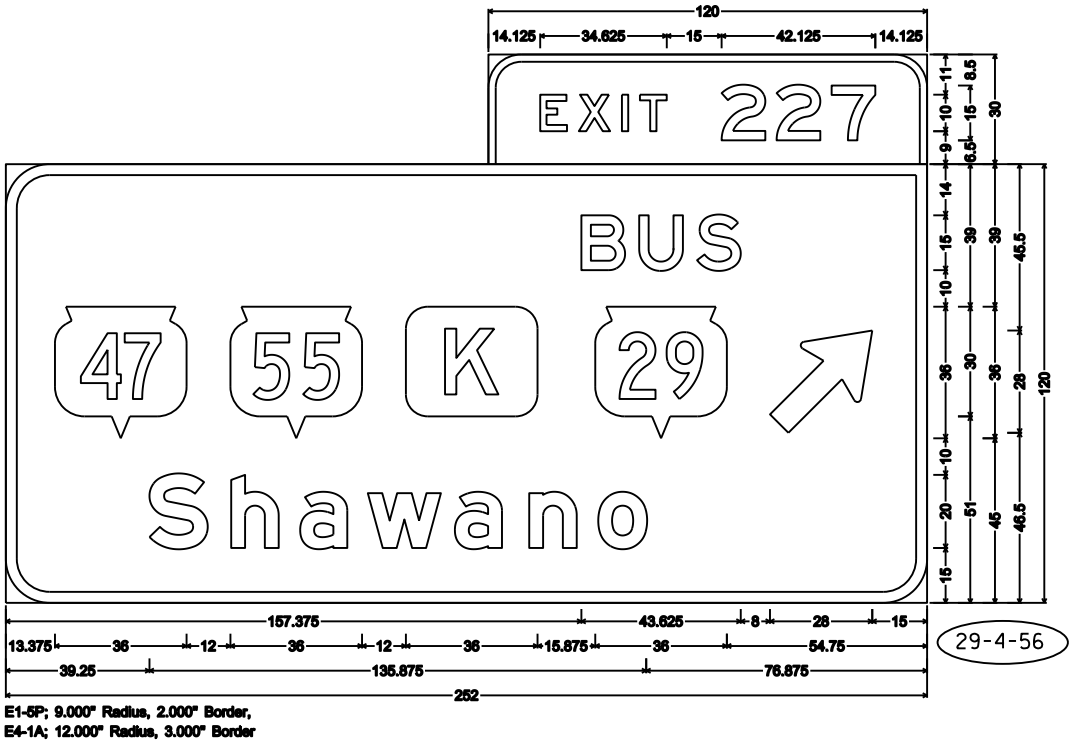
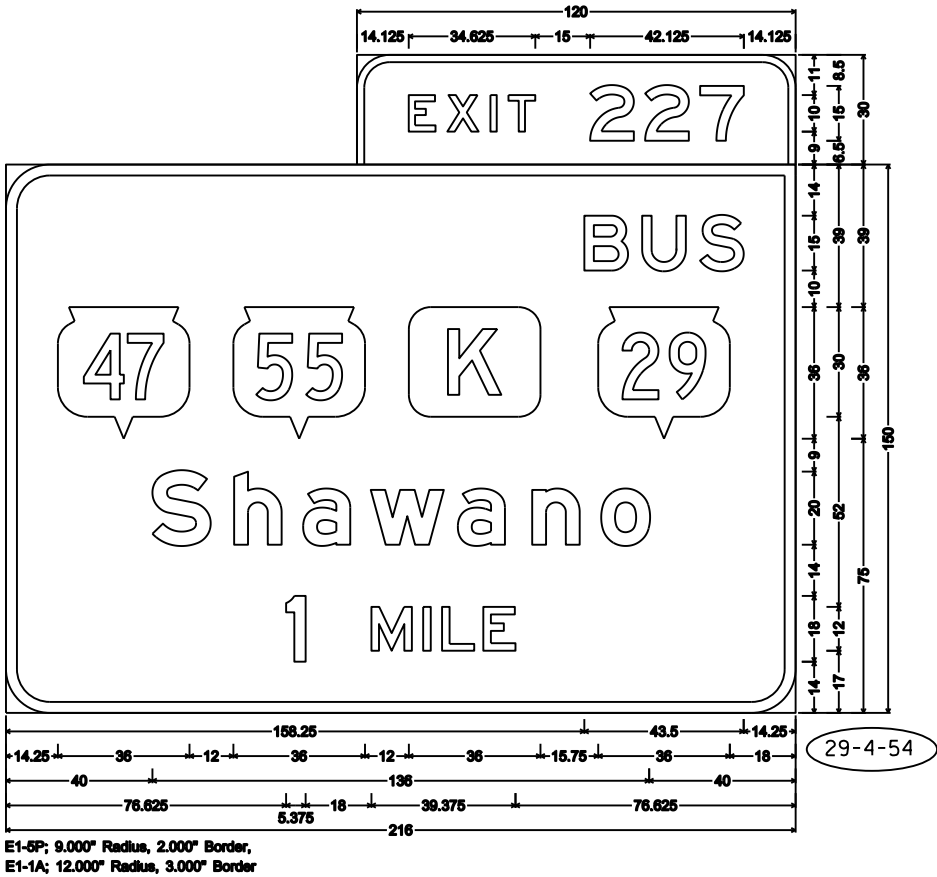
29-4-52



39-5-2

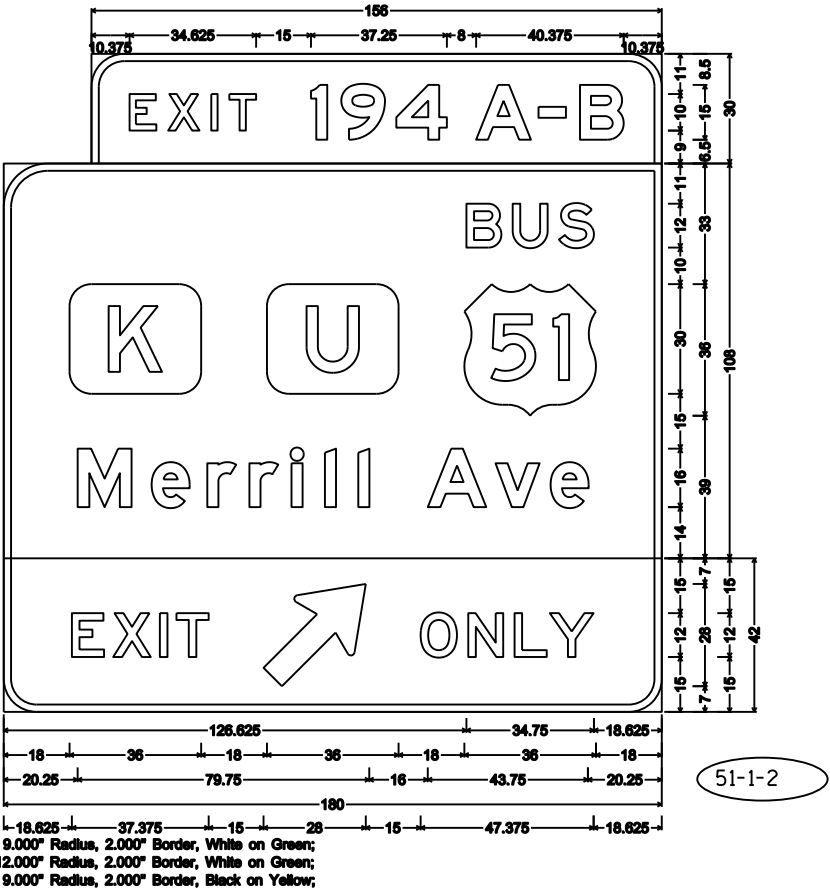
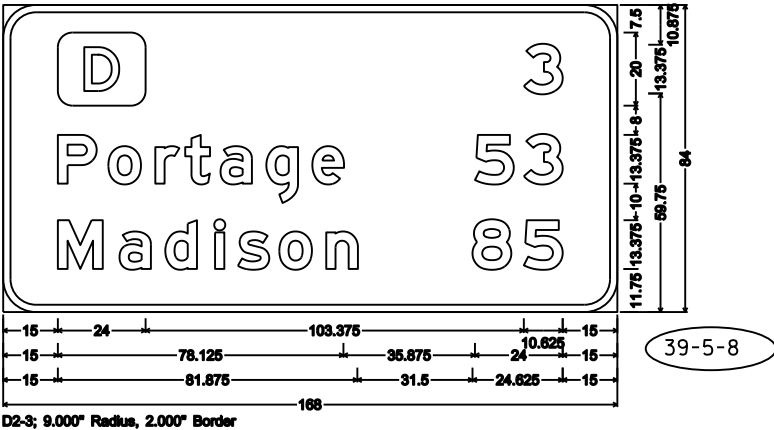
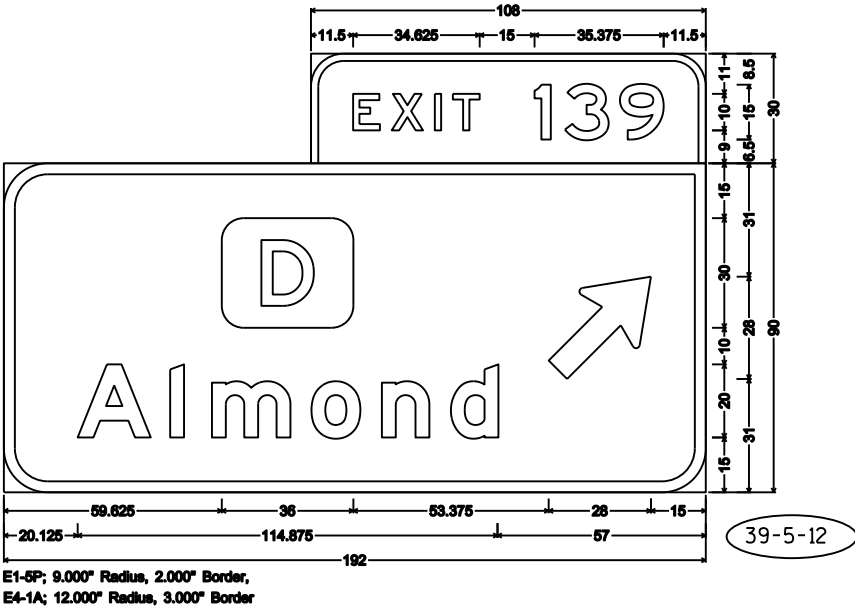
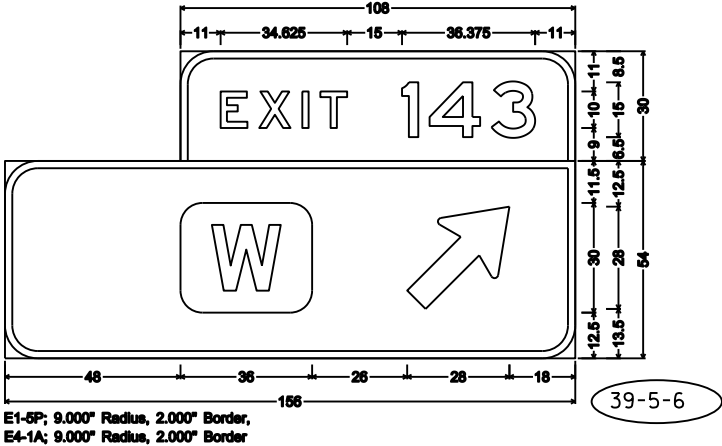
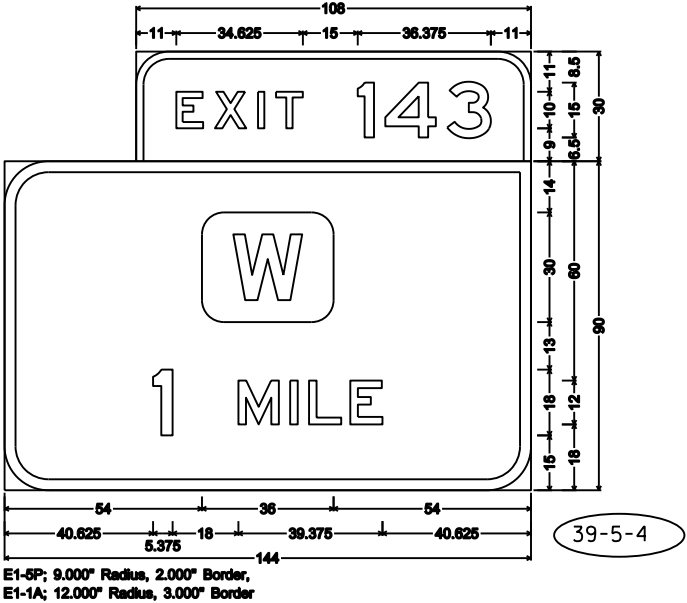
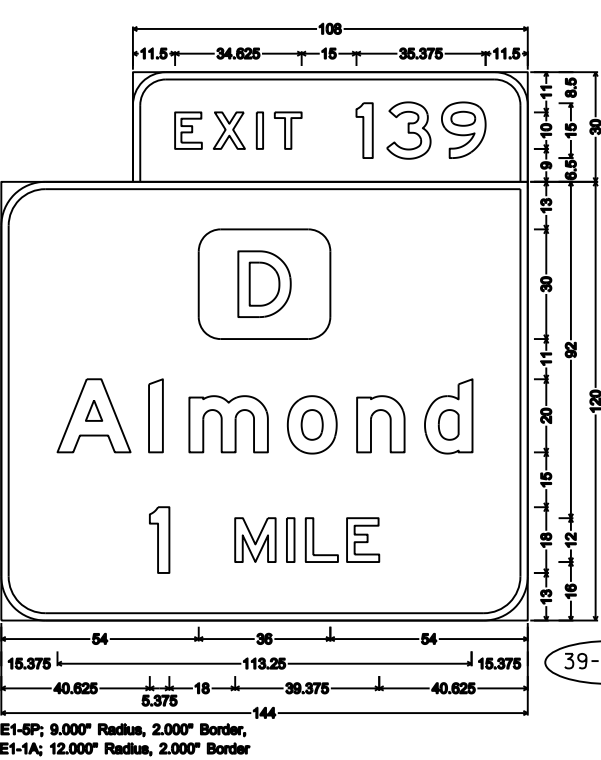
NOTES

- 1. Sign is Type I - Type SH Reflective
- 2. Color:
Background - Green except as noted
Message - White
- 3. Message Series - E Modified except all Cap Words Series E.
or as noted



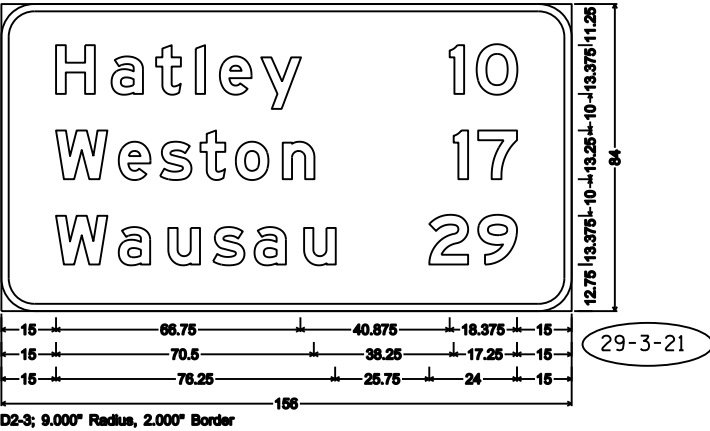
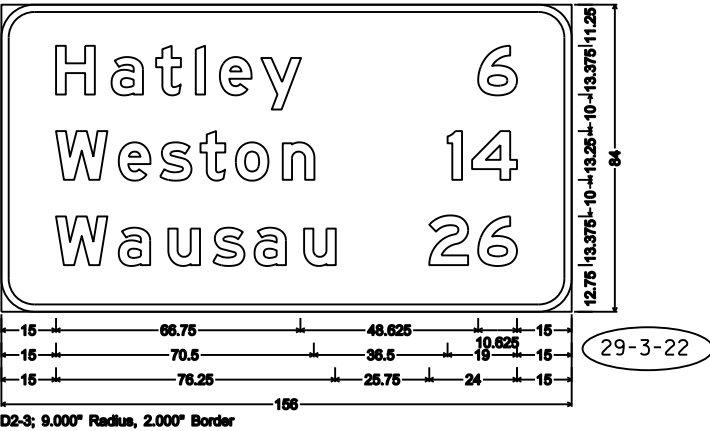
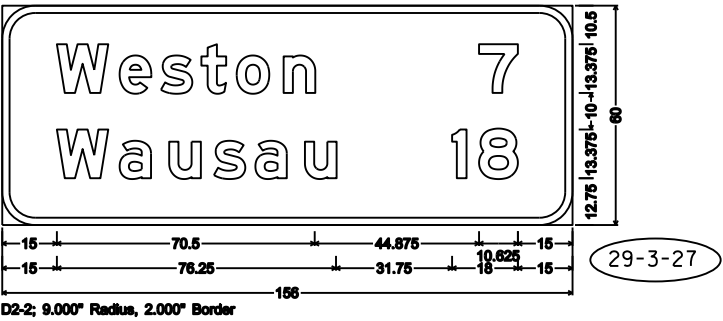
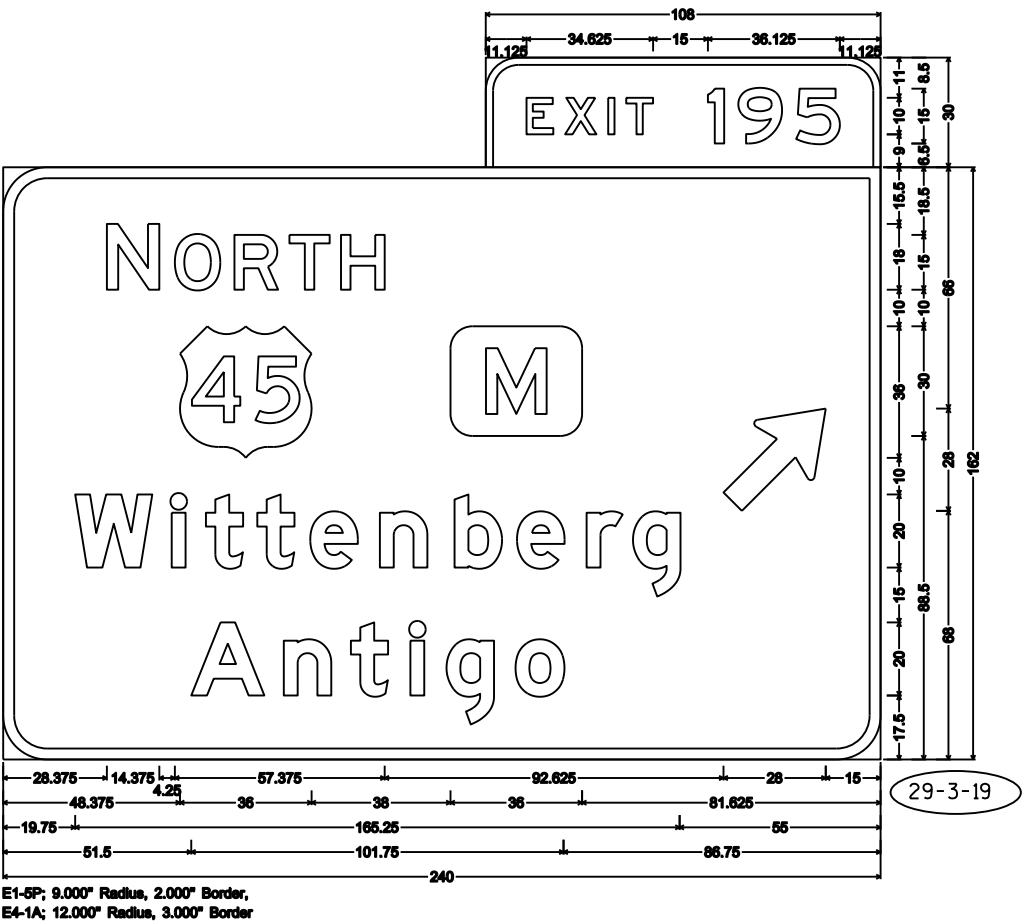
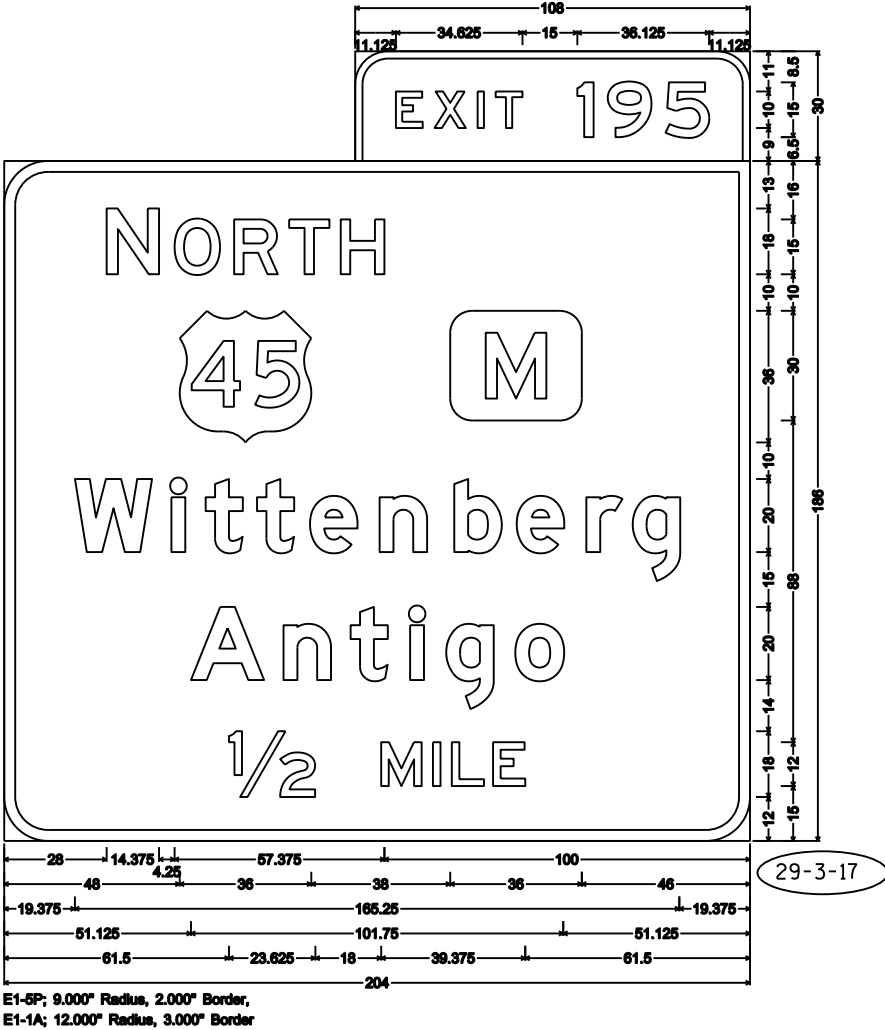
NOTES

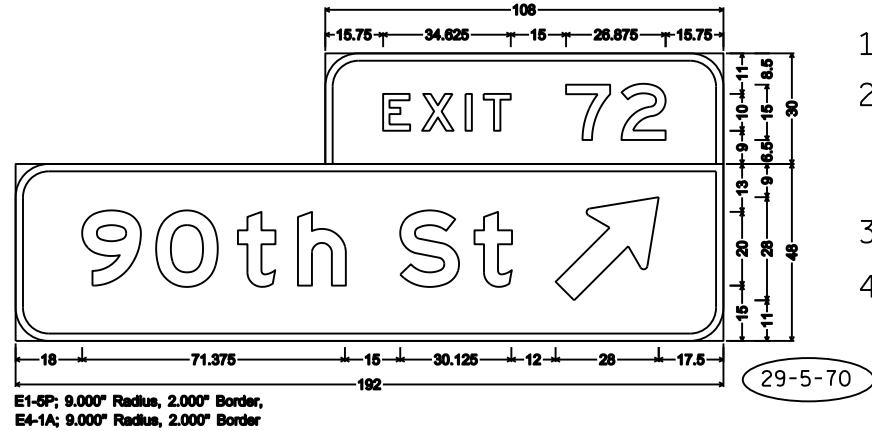
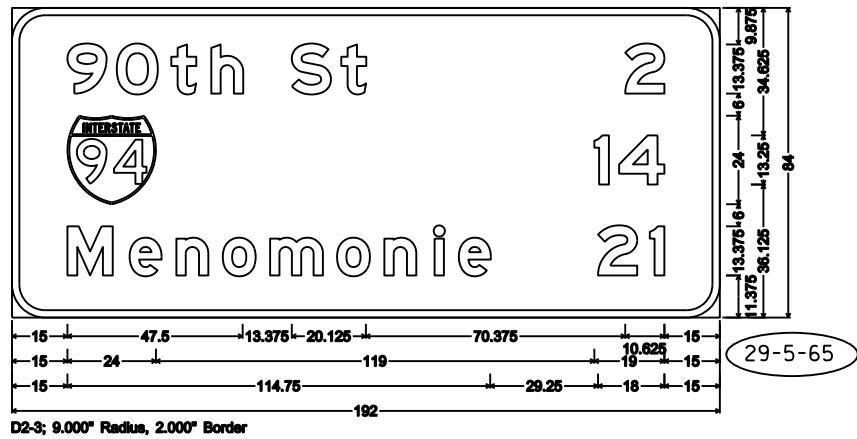
- 1. Sign is Type I - Type SH Reflective
- 2. Color:
Background - Green except as noted
Message - White
- 3. Message Series - E Modified except all Cap Words Series E.
or as noted
- 4. Exit Only Panel is Type F Reflective Background with Black
Non-Reflective Message



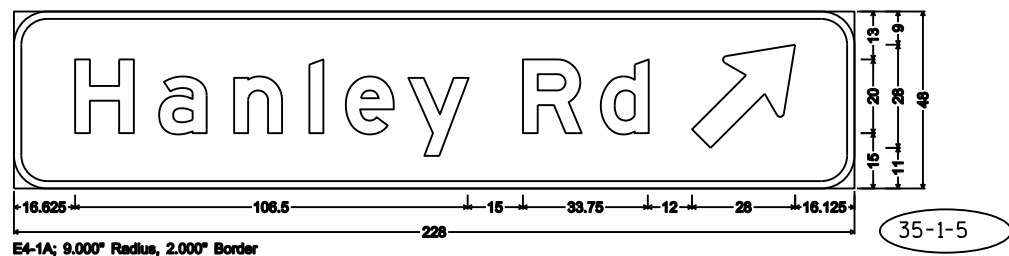
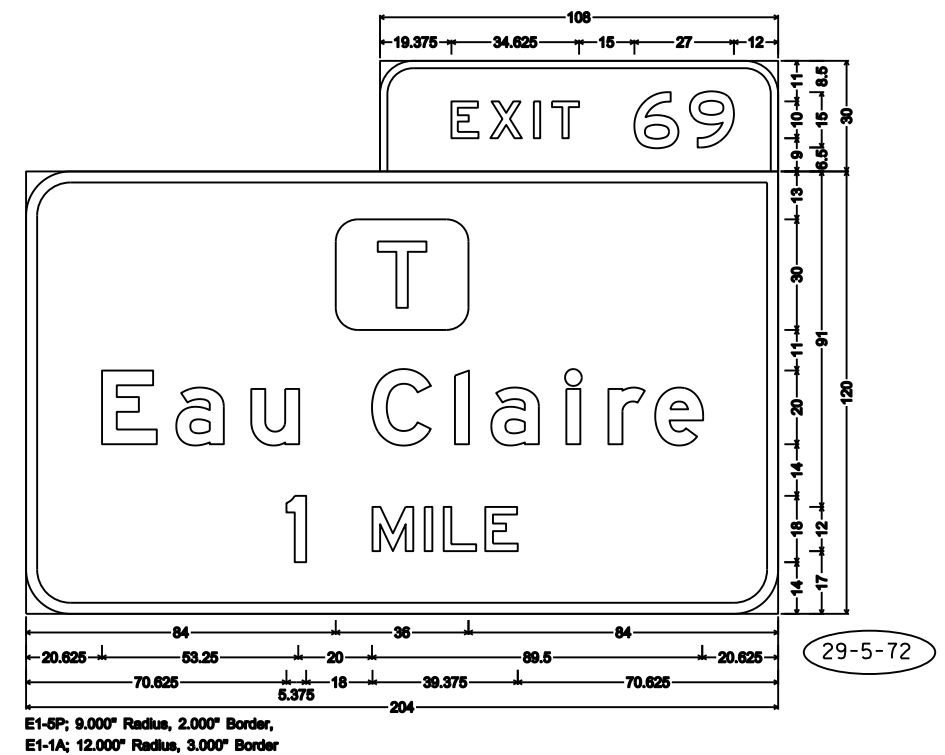
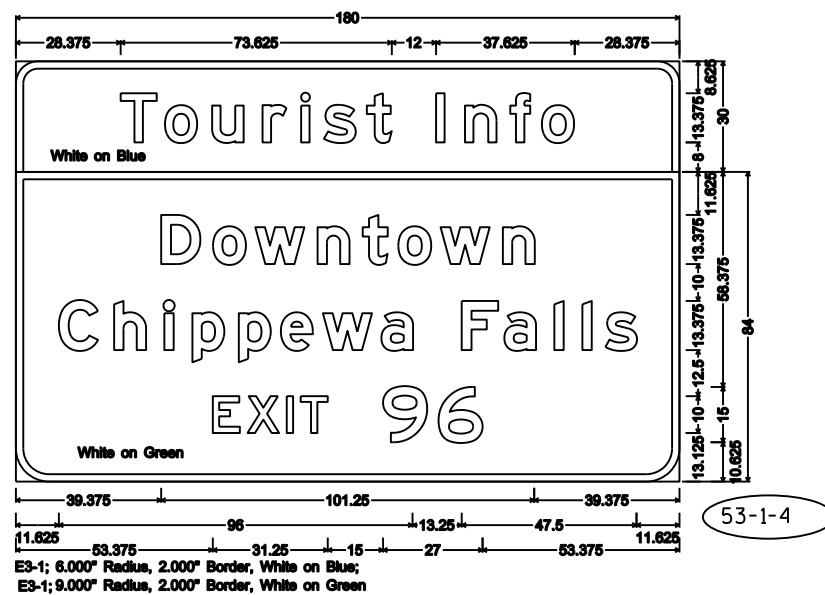
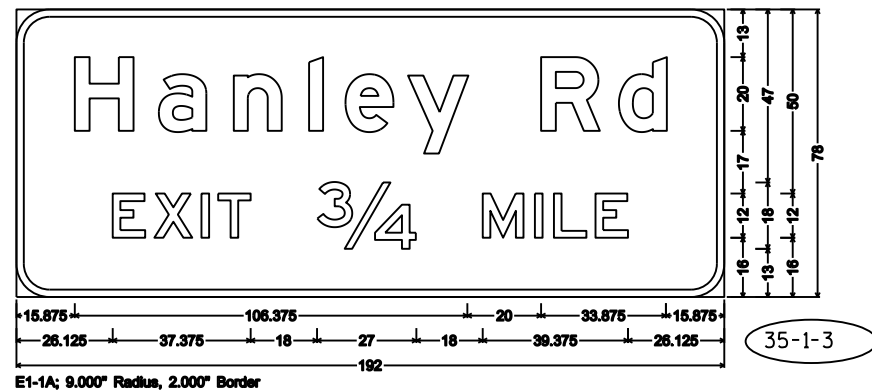
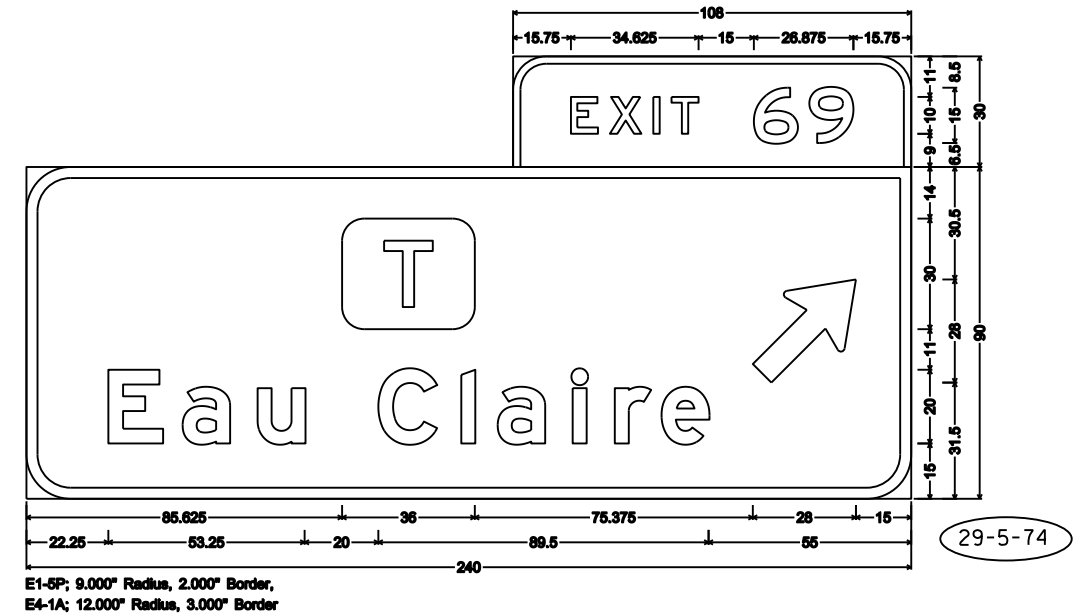
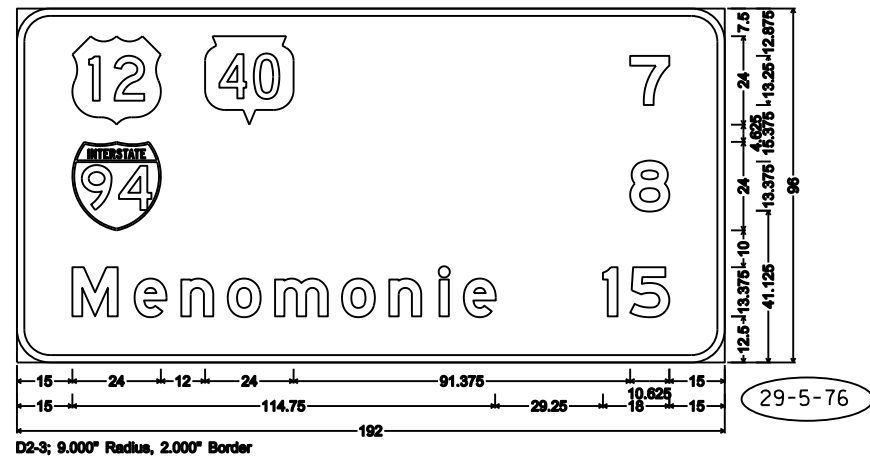
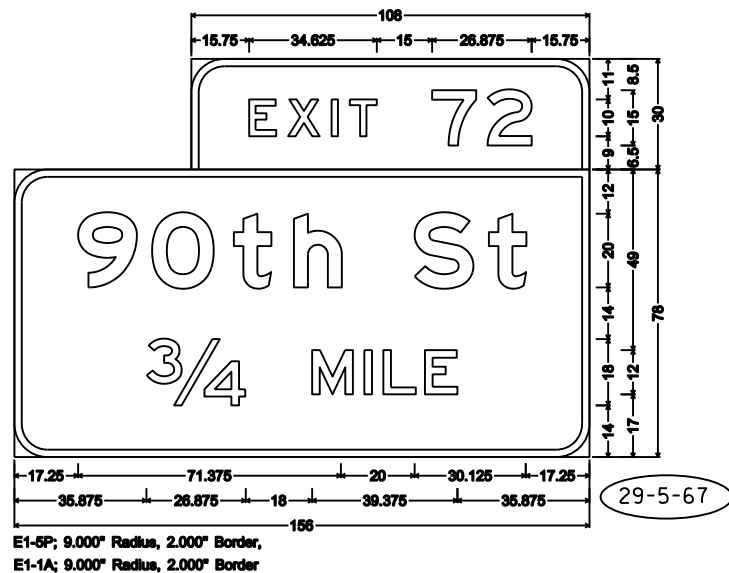
NOTES

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- 2. Color:
Background - Green except as noted
Message - White
- 3. Message Series - E Modified except all Cap Words Series E.
or as noted



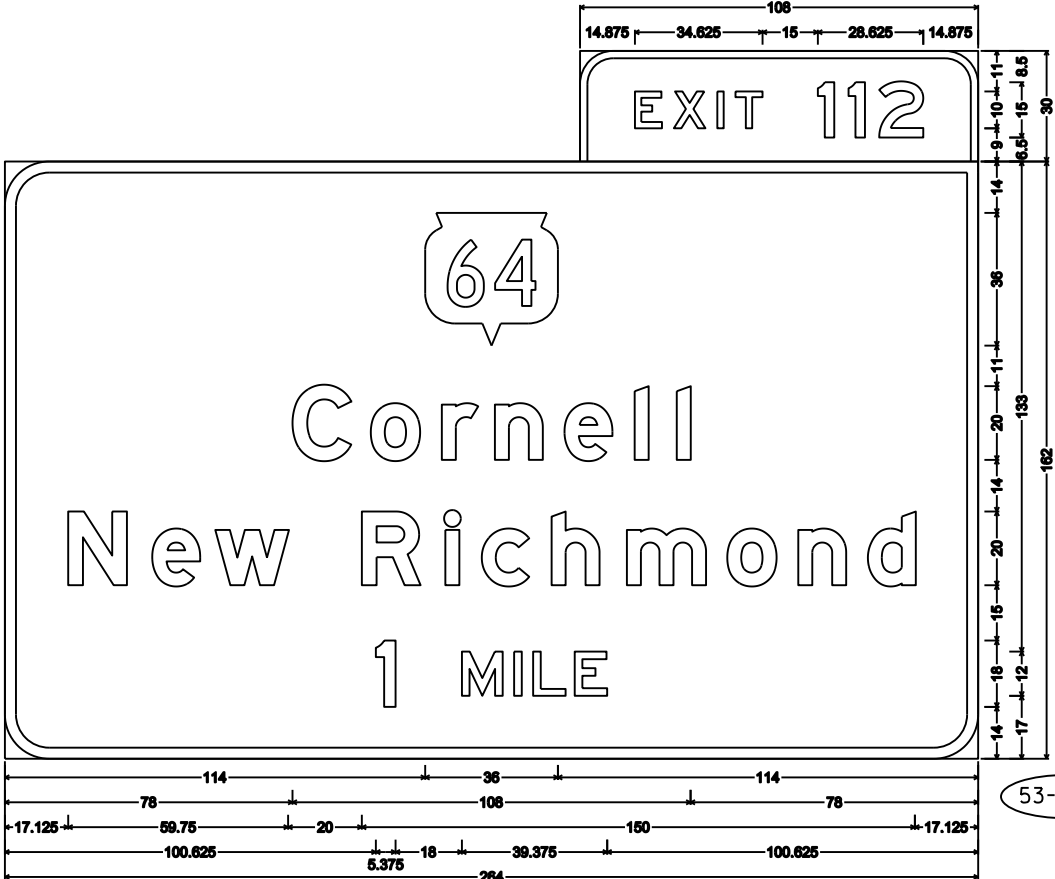


- NOTES
1. Sign is Type I - Type SH Reflective
 2. Color:
Background - Green except as noted
Message - White
 3. Message Series - E Modified except all Cap Words Series E.
 4. Exit Only Panels Type F Reflective with:
Background - Yellow
Message - Black



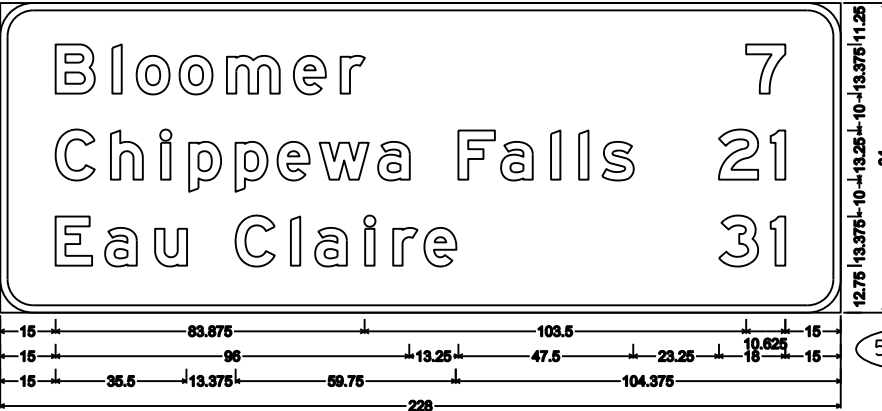
NOTES

- 1. Sign is Type I - Type SH Reflective
- 2. Color:
Background - Green except as noted
Message - White
- 3. Message Series - E Modified except all Cap Words Series E.
- 4. Exit Only Panels Type F Reflective with:
Background - Yellow
Message - Black



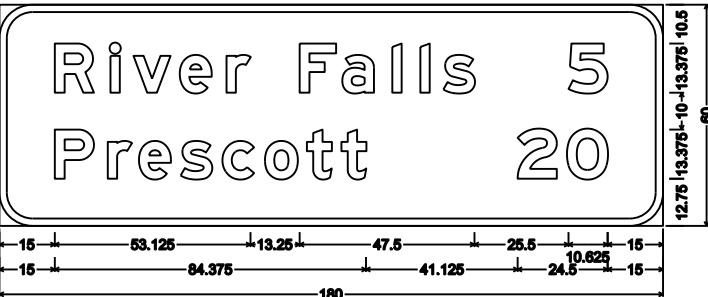
E1-6P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border

53-1-17



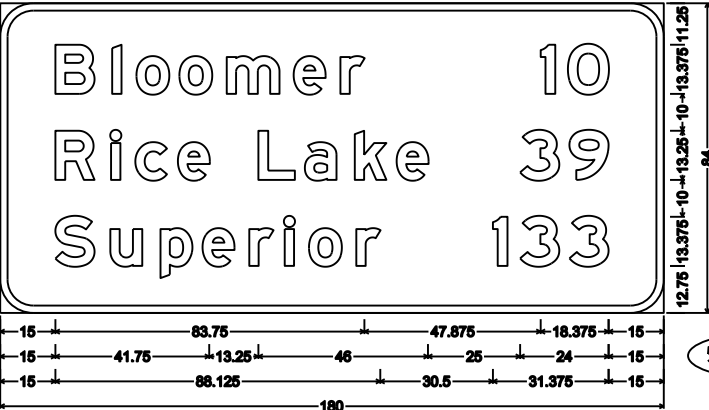
D2-3; 9.000" Radius, 2.000" Border

53-1-15



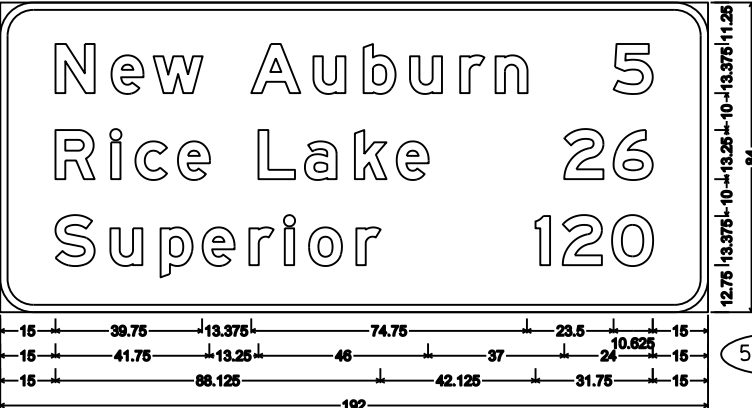
D2-2; 9.000" Radius, 2.000" Border

35-1-7



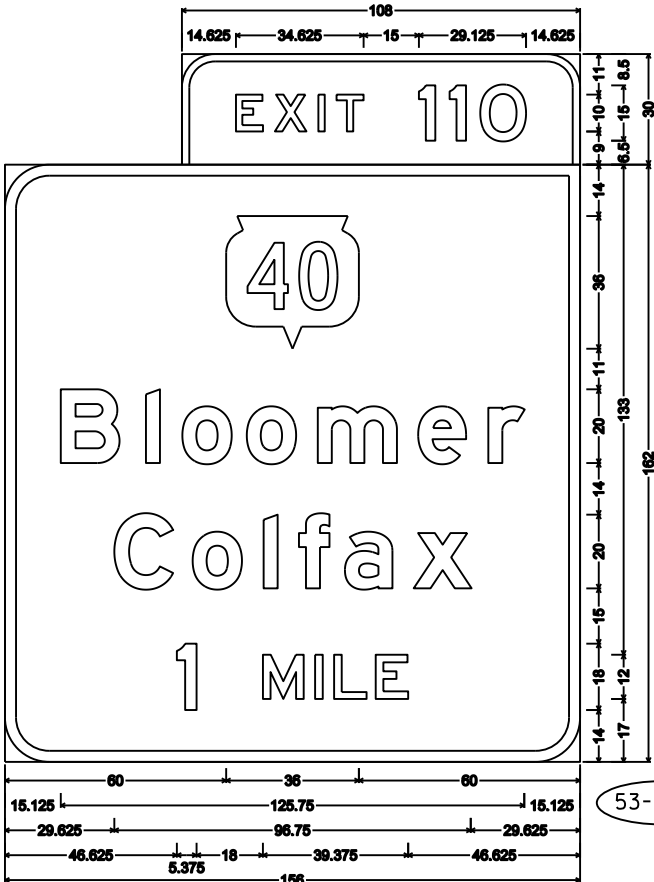
D2-3; 9.000" Radius, 2.000" Border

53-1-9



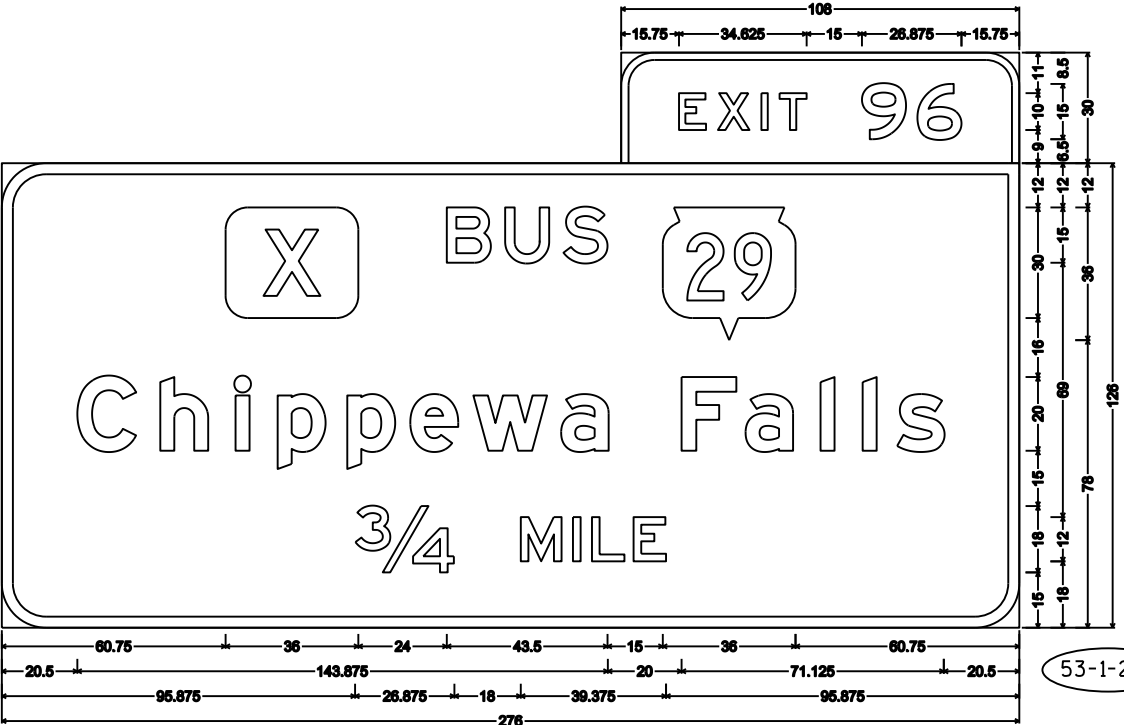
D2-3; 9.000" Radius, 2.000" Border

53-1-13



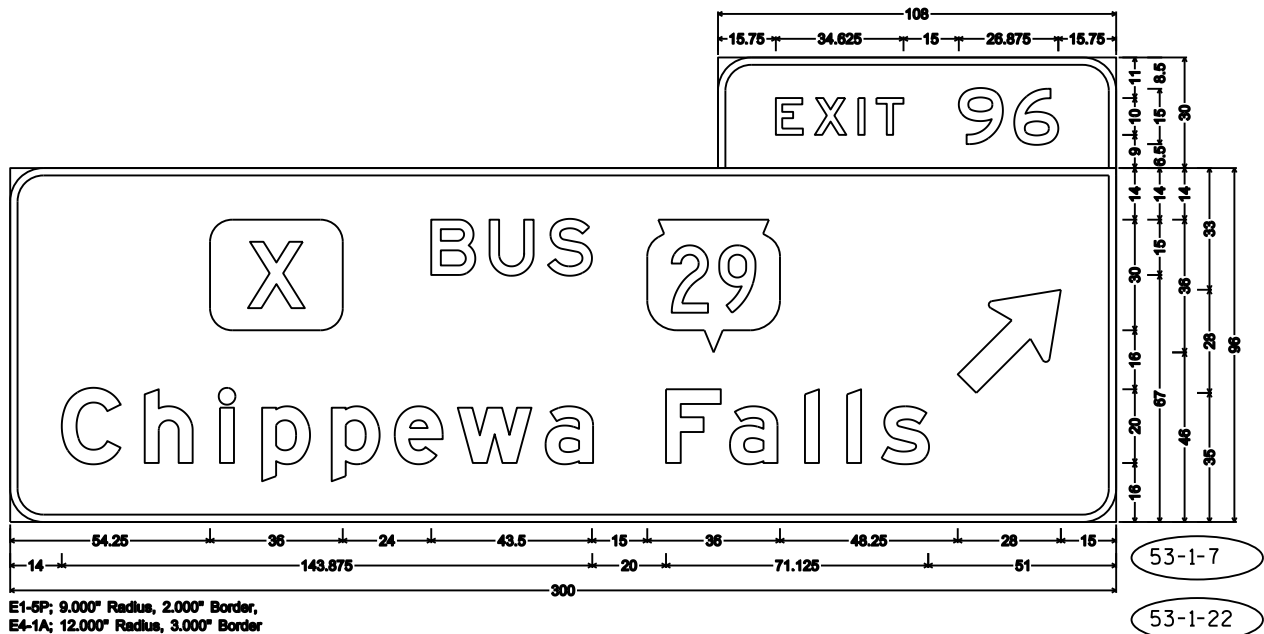
E1-6P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border

53-1-11



E1-6P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border

53-1-2



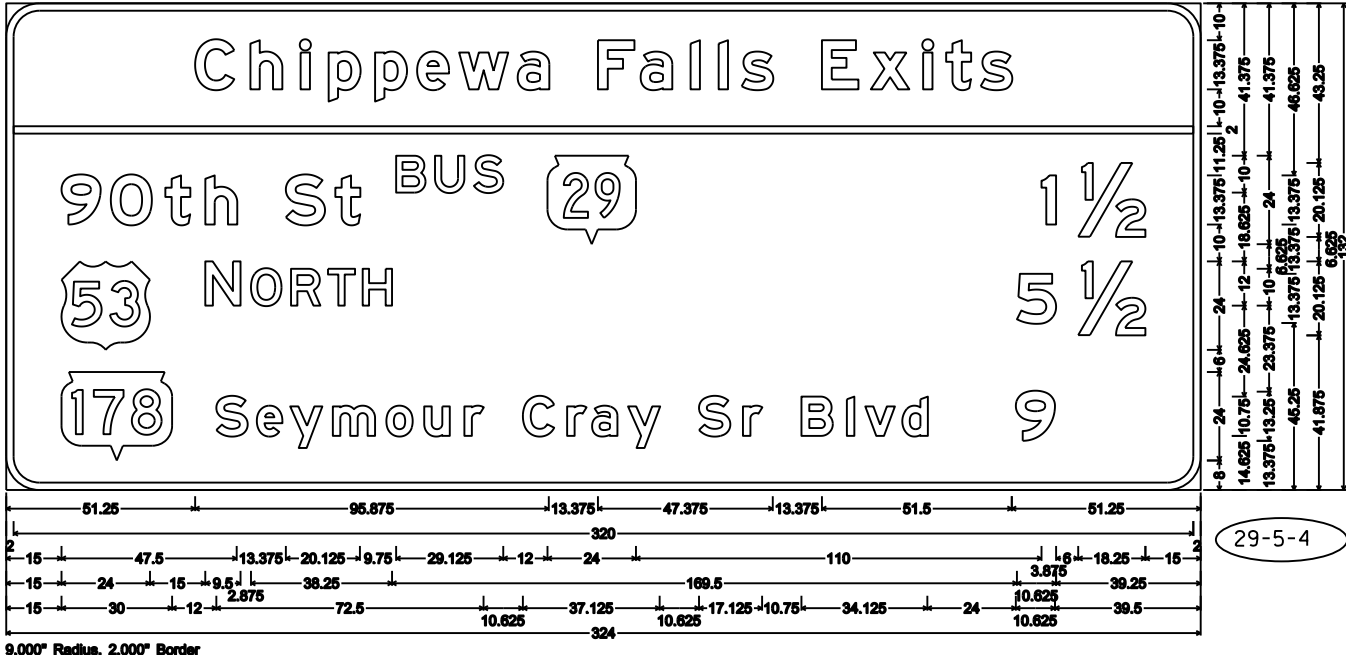
E1-5P; 9.000" Radius, 2.000" Border,
E4-1A; 12.000" Radius, 3.000" Border

53-1-7

53-1-22

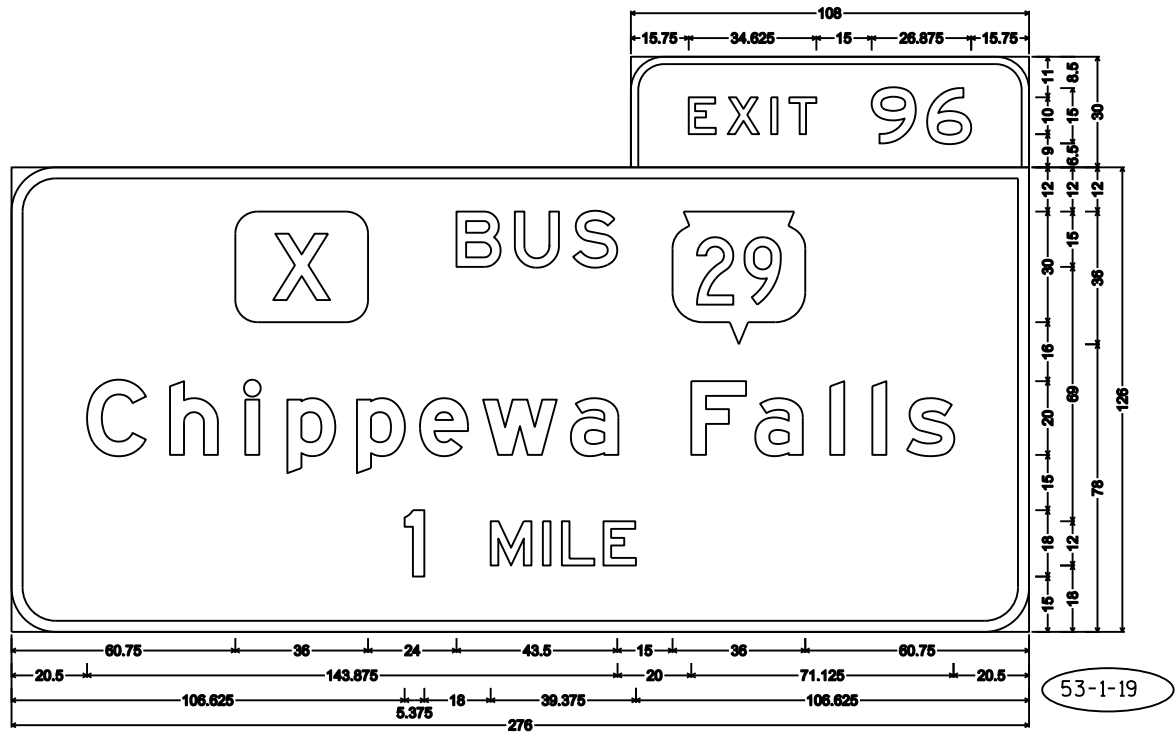
NOTES

1. Sign is Type I - Type SH Reflective
2. Color:
Background - Green except as noted
Message - White
3. Message Series - E Modified except all Cap Words Series E.
4. Exit Only Panels Type F Reflective with:
Background - Yellow
Message - Black



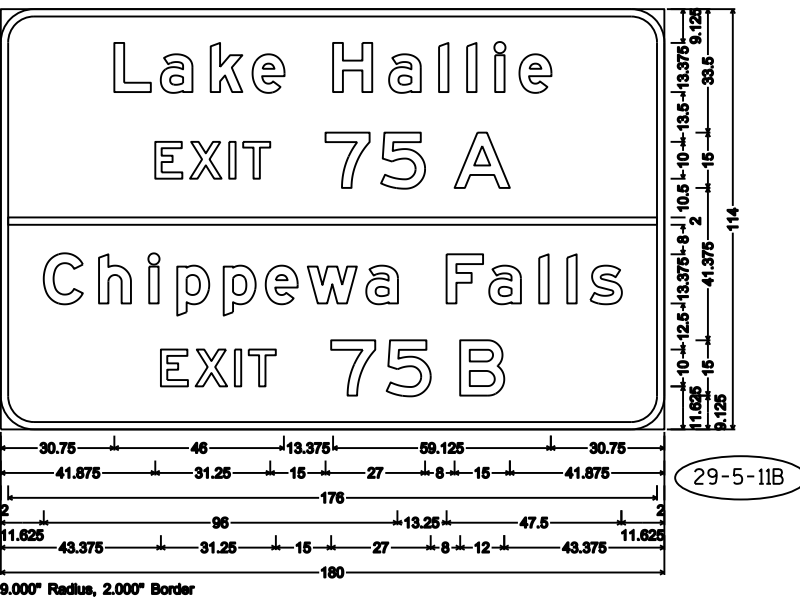
29-5-4

9.000" Radius, 2.000" Border



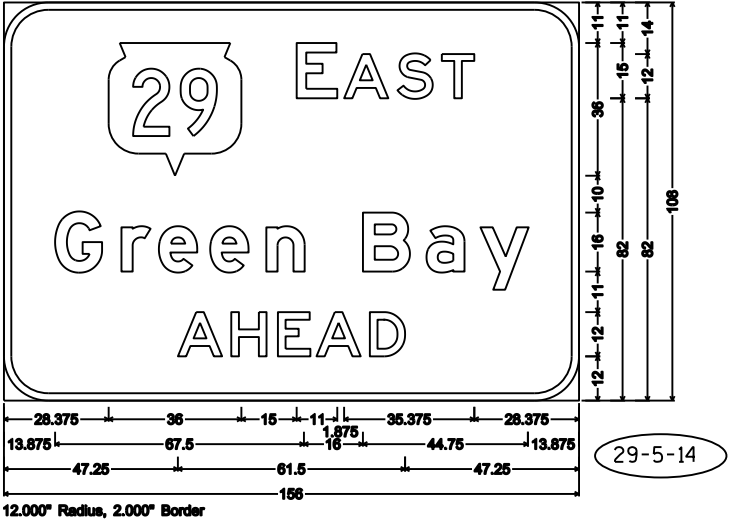
E1-5P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border

53-1-19



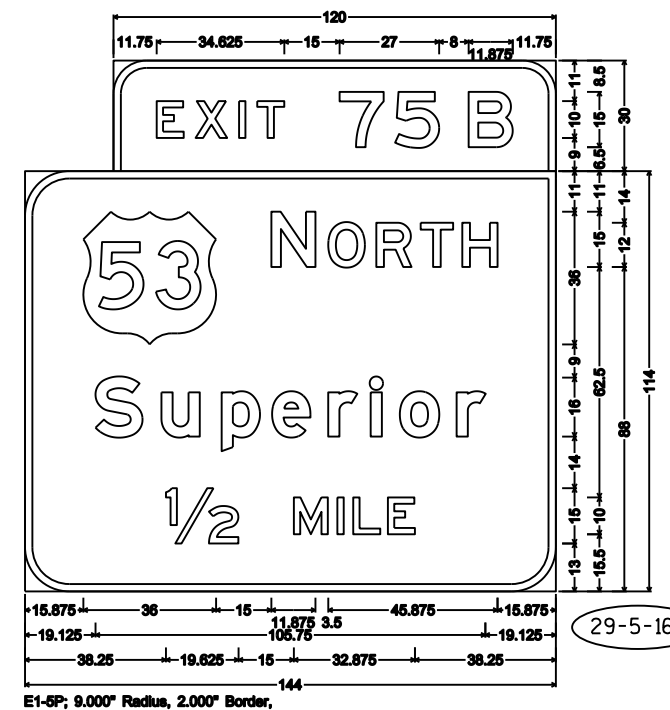
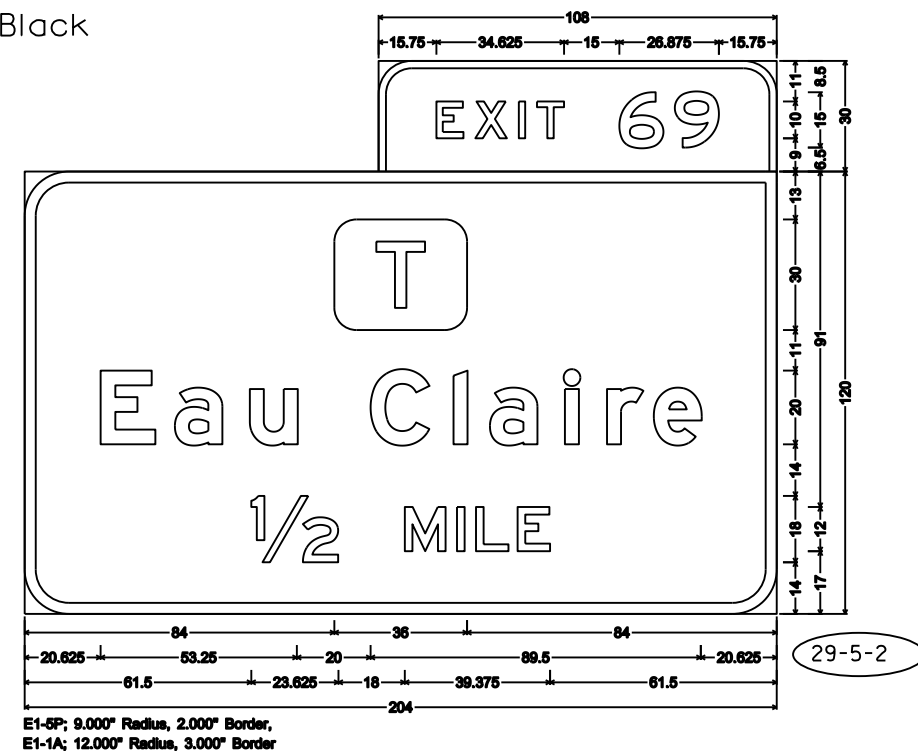
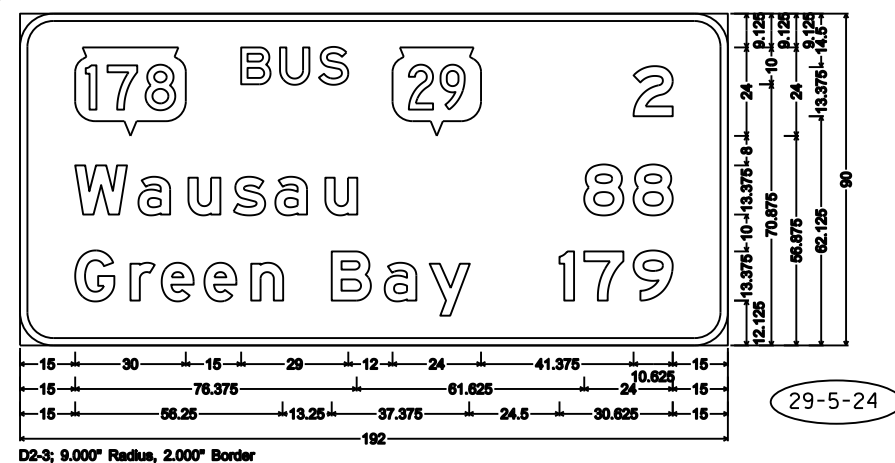
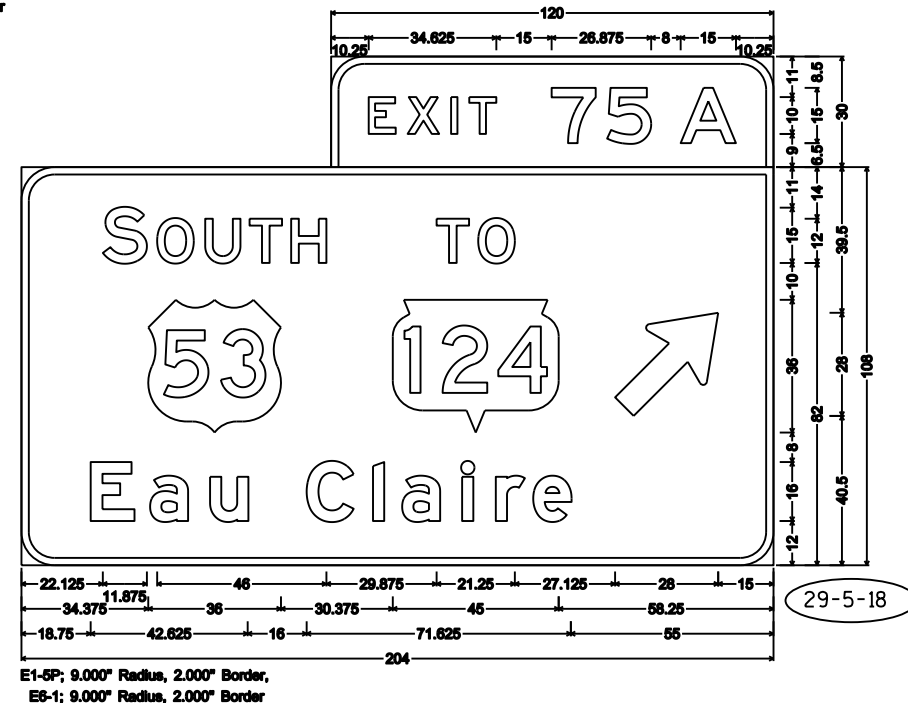
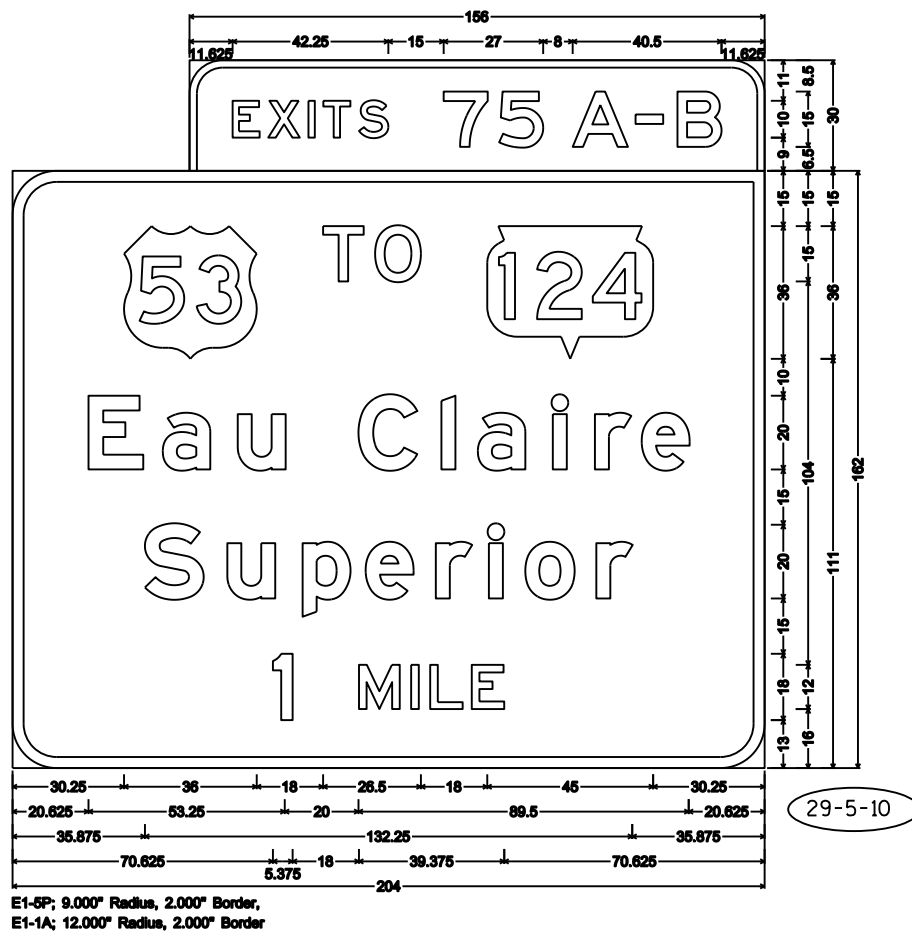
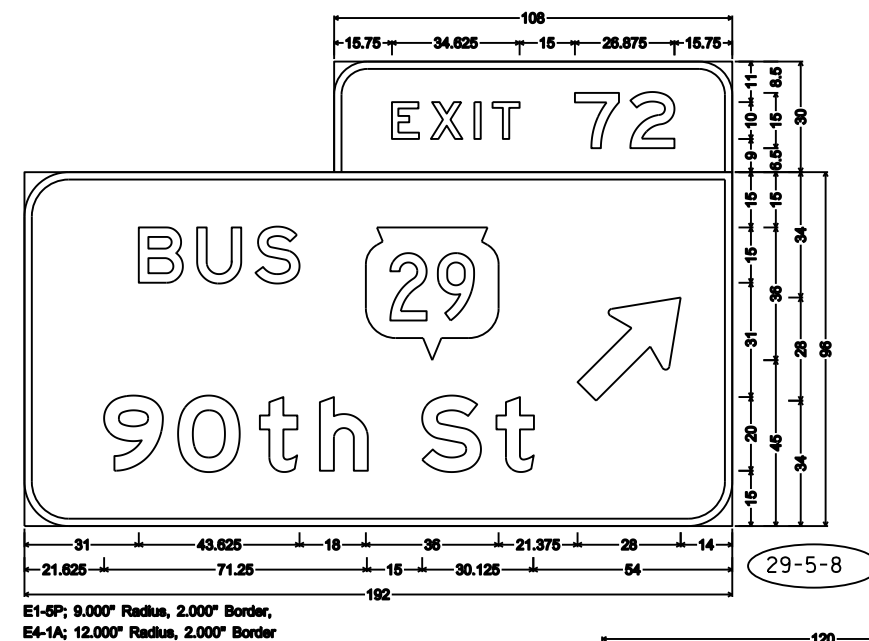
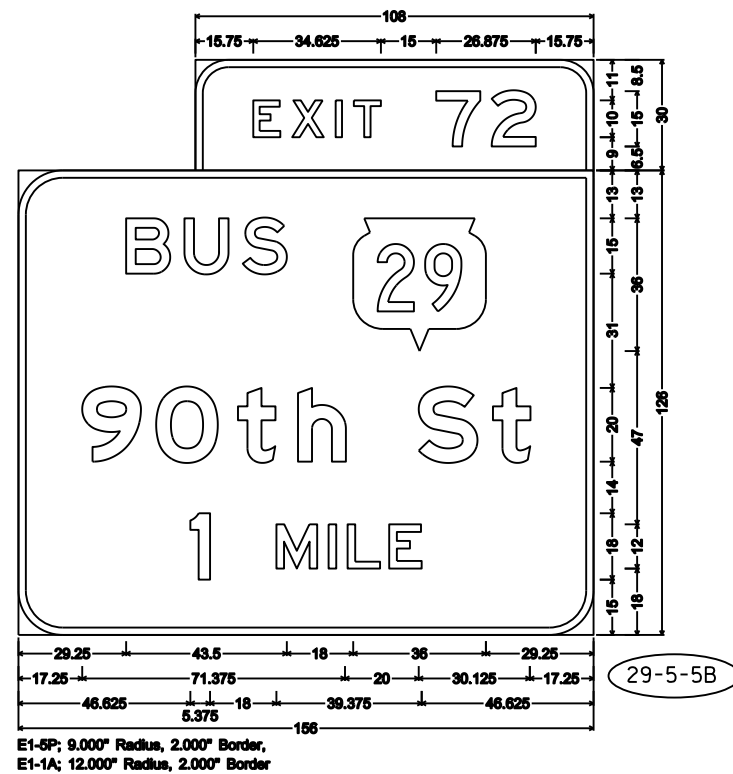
29-5-11B

9.000" Radius, 2.000" Border



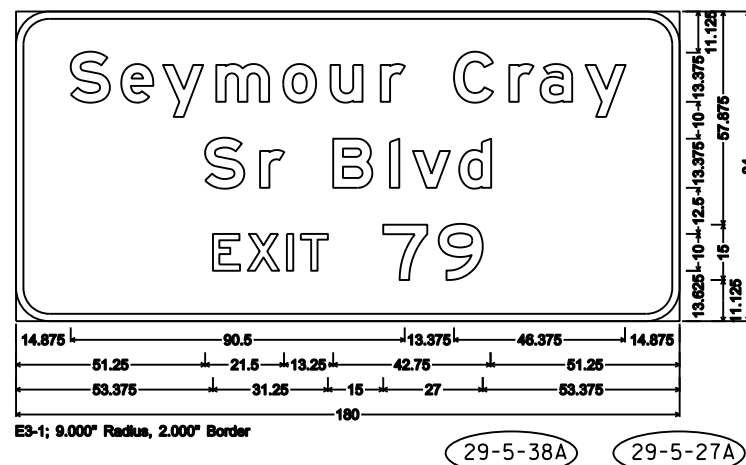
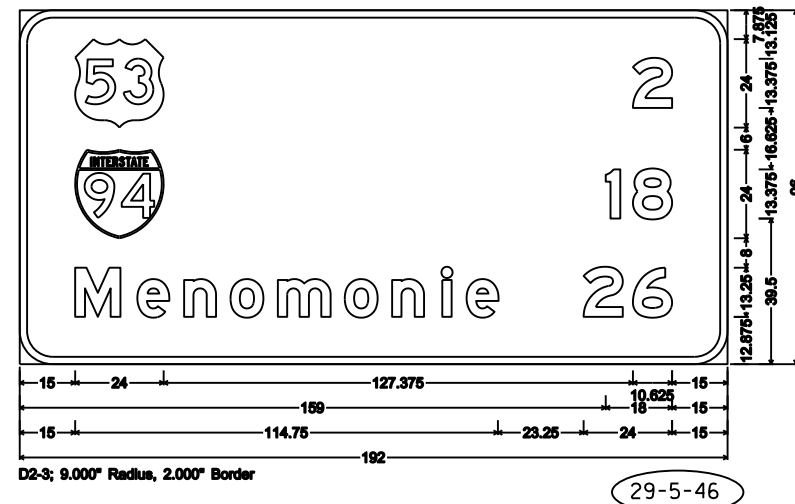
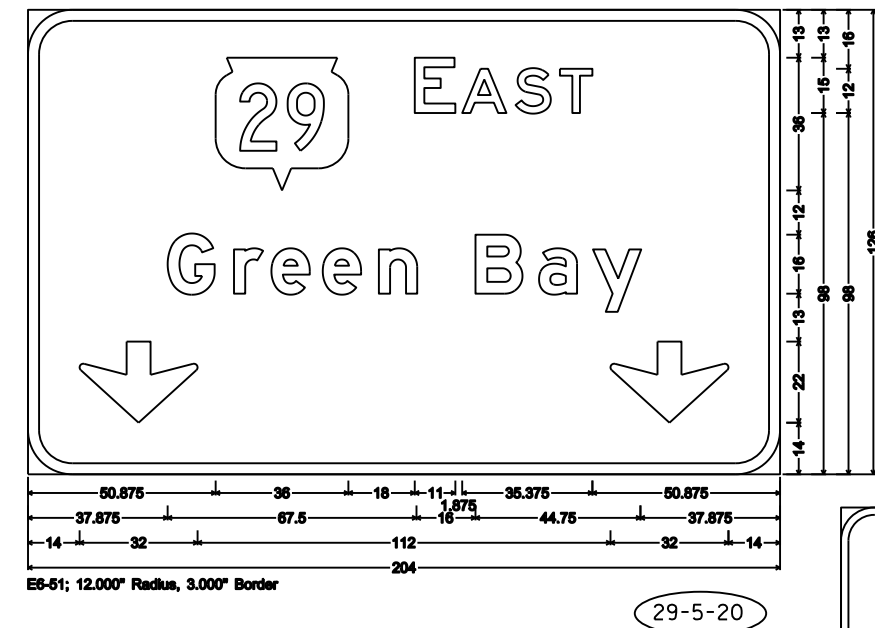
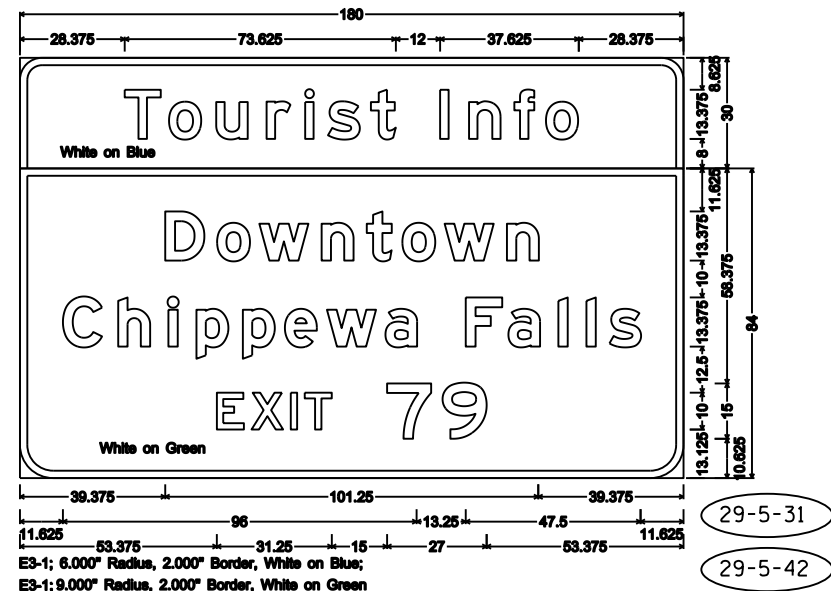
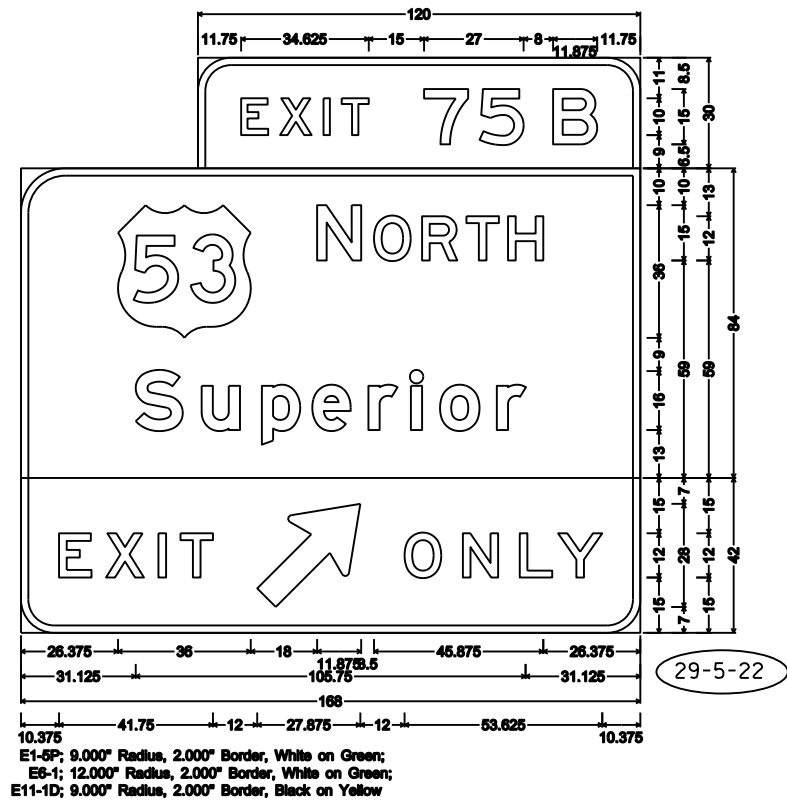
29-5-14

12.000" Radius, 2.000" Border

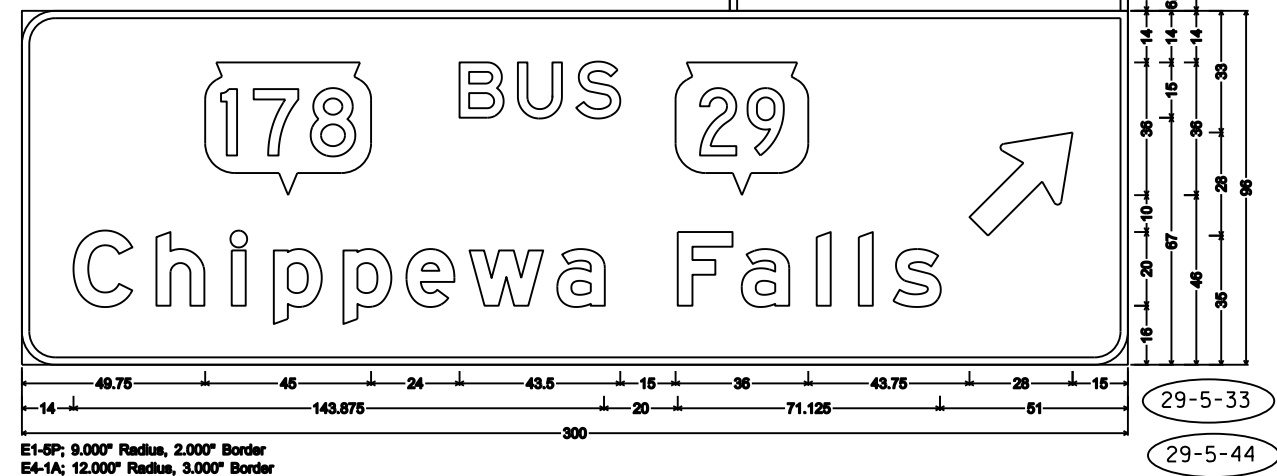
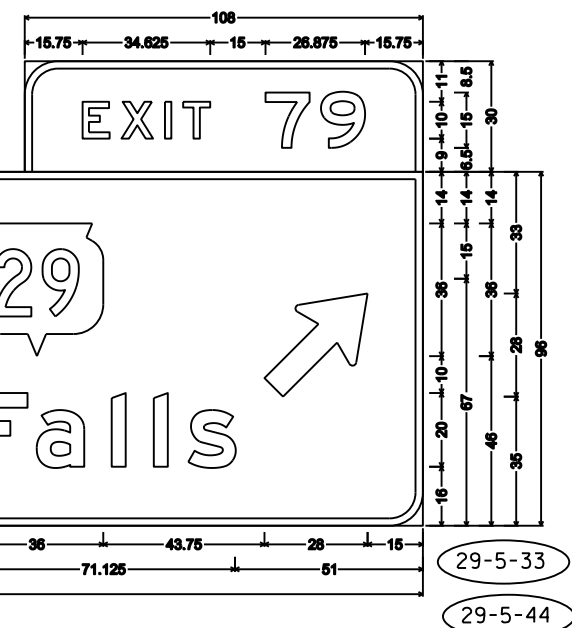
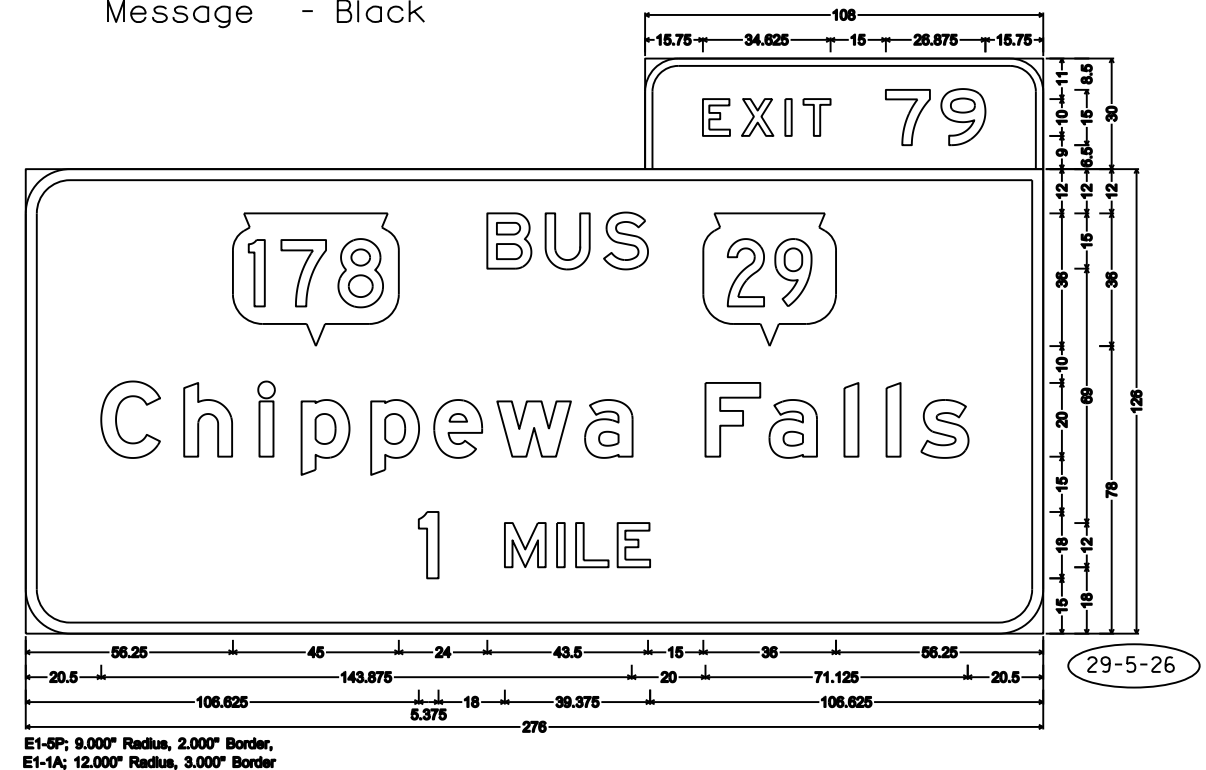


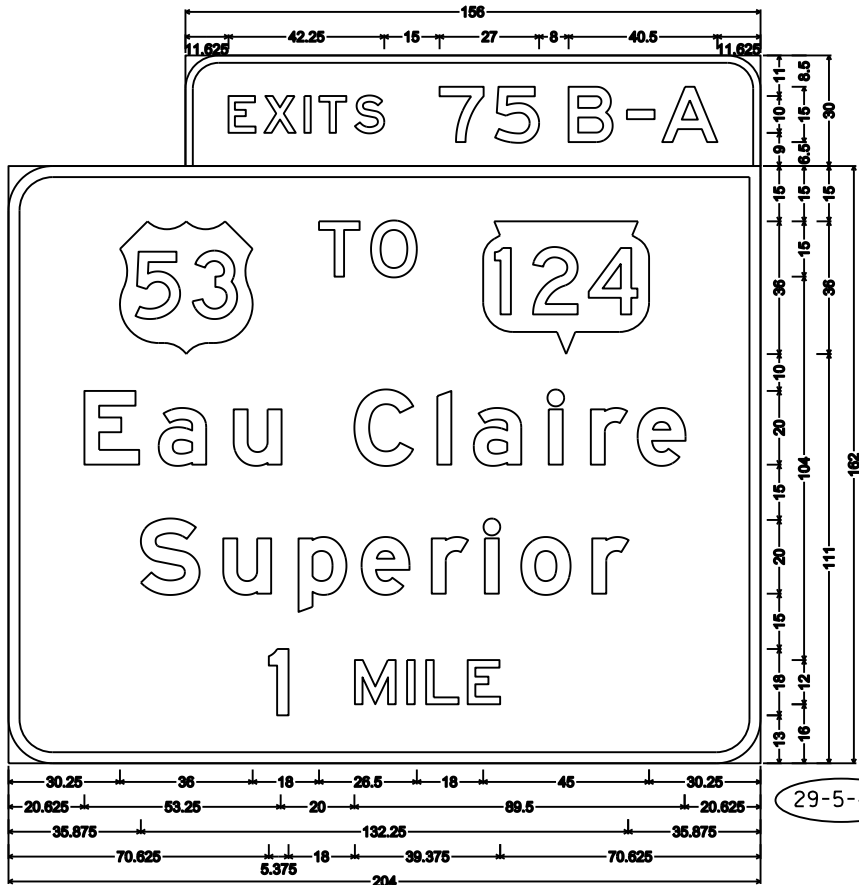
NOTES

1. Sign is Type I - Type SH Reflective
2. Color:
 - Background - Green except as noted
 - Message - White
3. Message Series - E Modified except all Cap Words Series E.
4. Exit Only Panels Type F Reflective with:
 - Background - Yellow
 - Message - Black



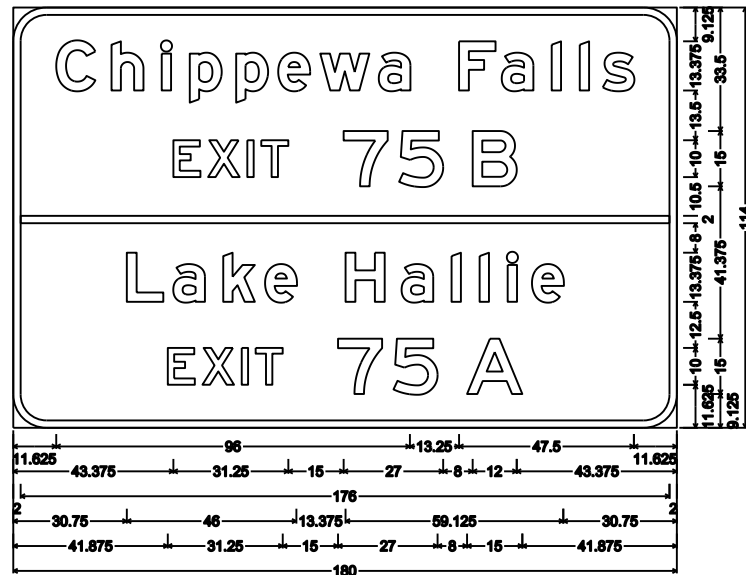
- NOTES
1. Sign is Type I - Type SH Reflective
 2. Color:
Background - Green except as noted
Message - White
 3. Message Series - E Modified except all Cap Words Series E.
 4. Exit Only Panels Type F Reflective with:
Background - Yellow
Message - Black



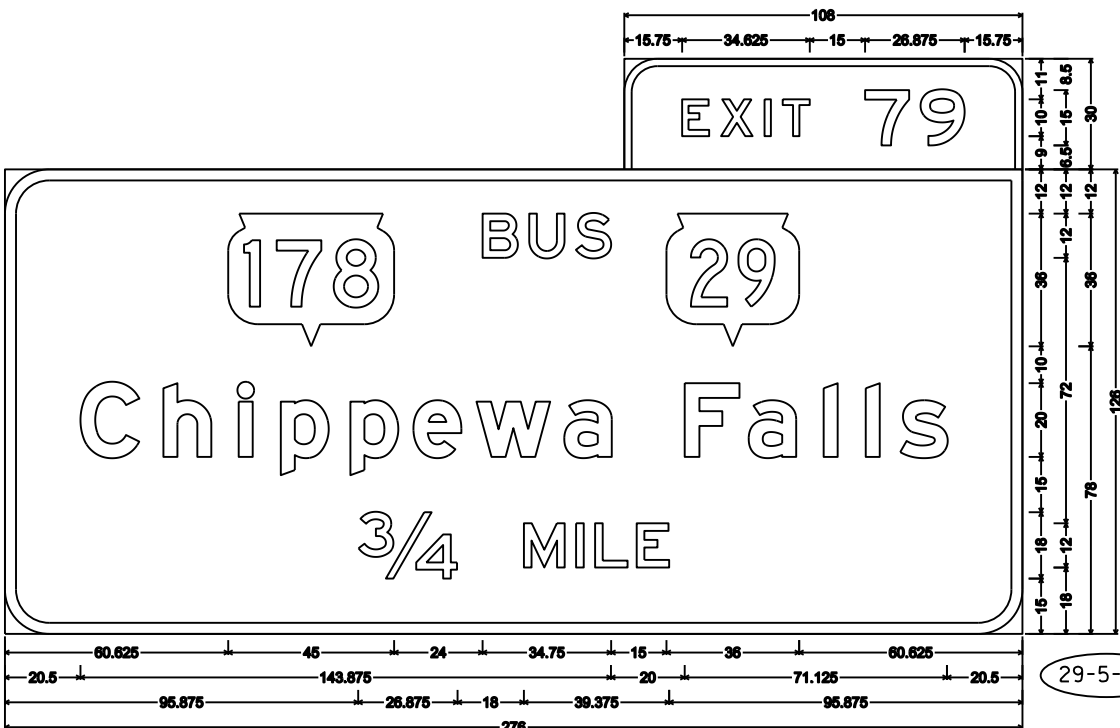


E1-5P; 9,000" Radius, 2,000" Border,
E1-1A; 12,000" Radius, 3,000" Border

29-5-48

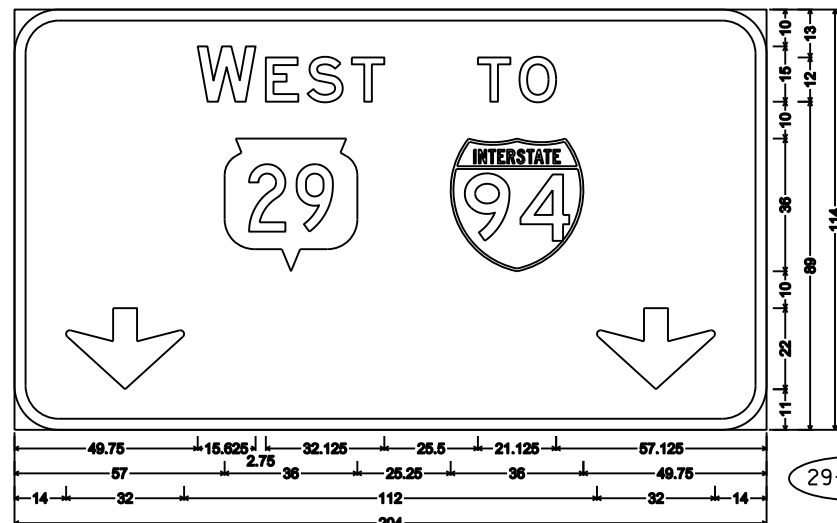


29-5-50



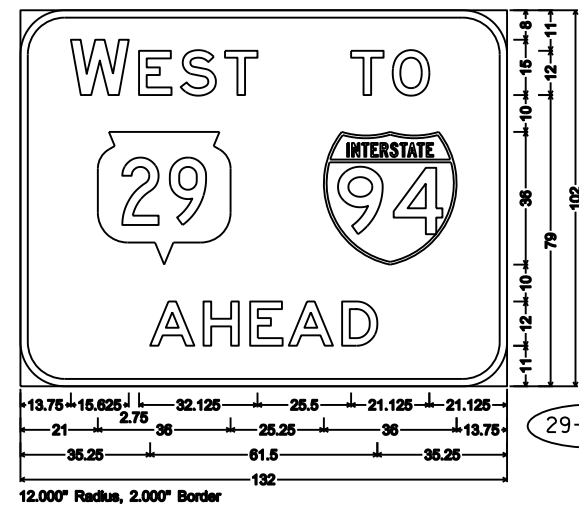
E1-5P; 9,000" Radius, 2,000" Border,
E1-1A; 12,000" Radius, 3,000" Border

29-5-37



E8-51; 12,000" Radius, 3,000" Border

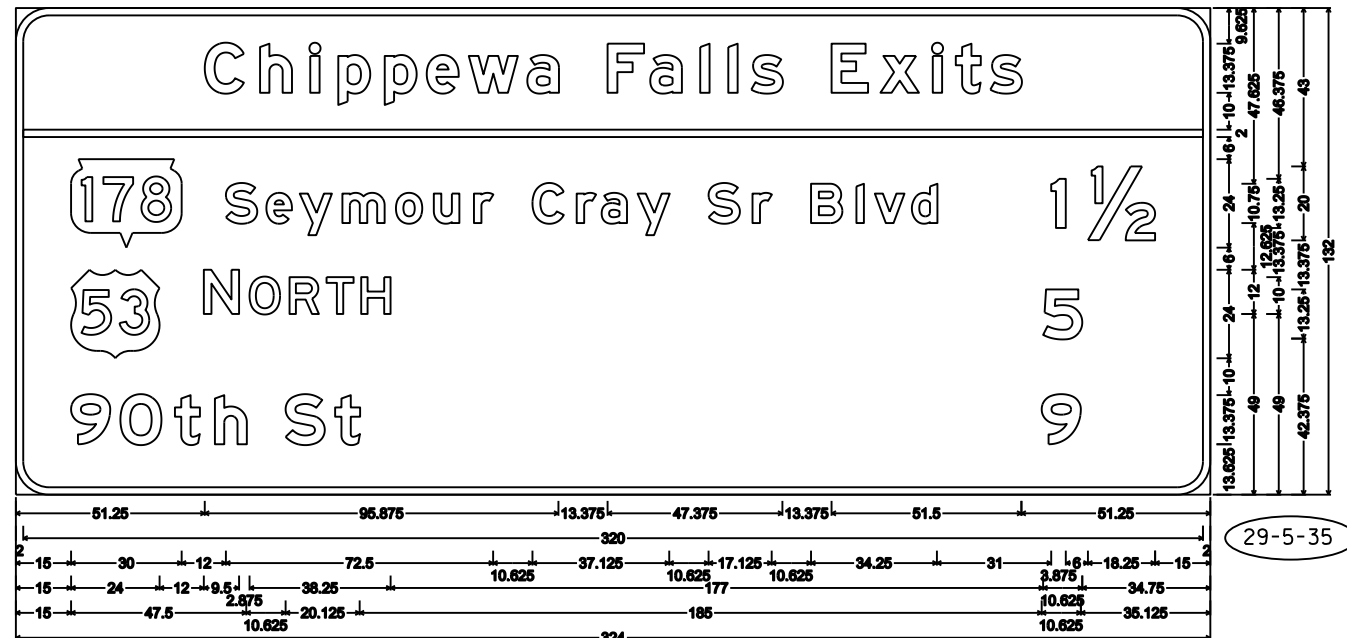
29-5-59



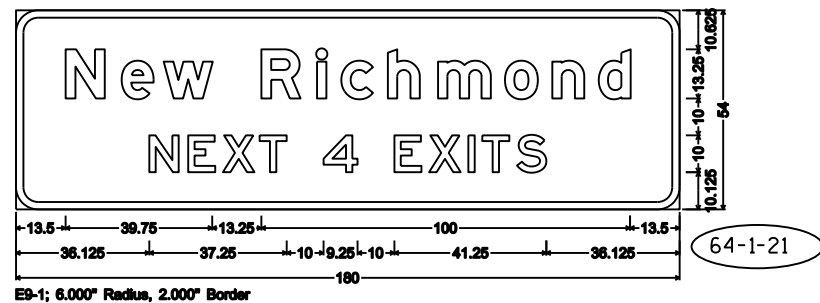
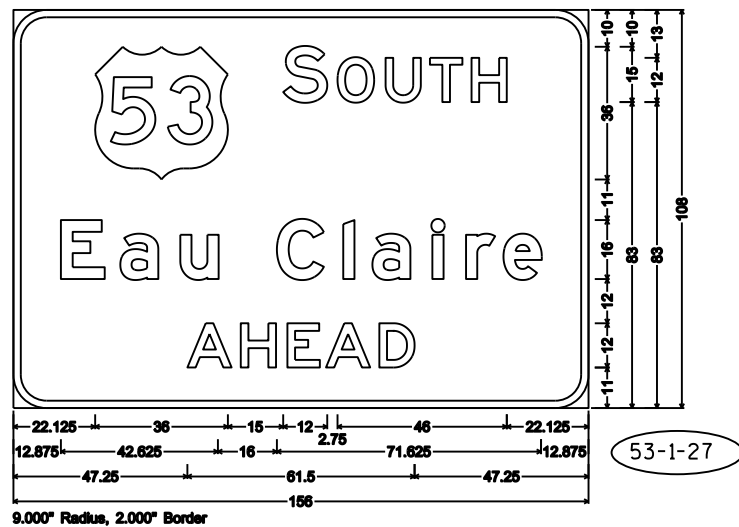
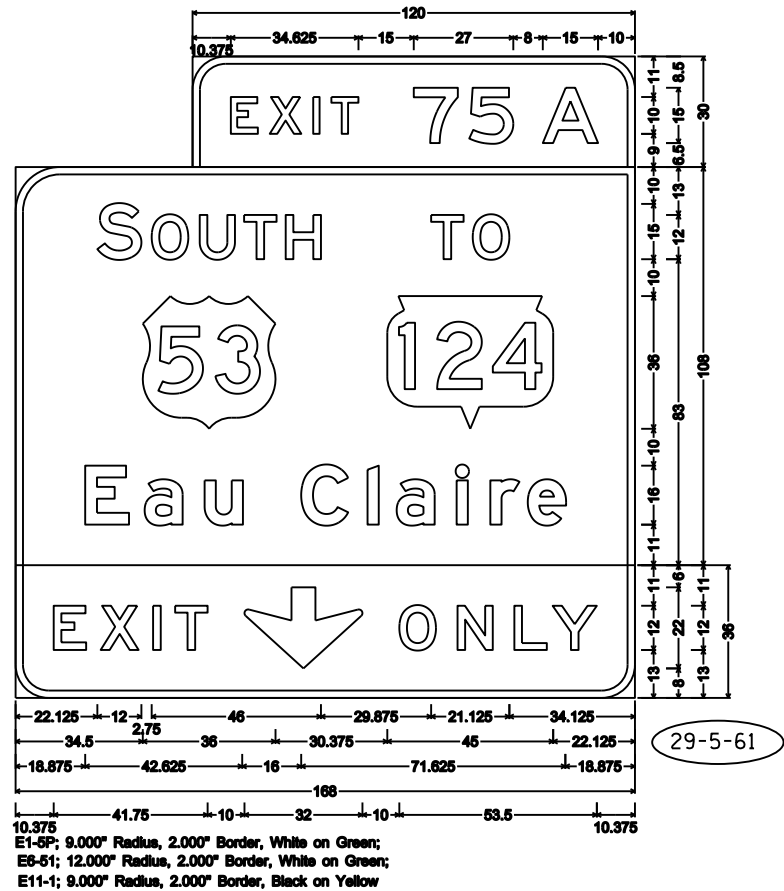
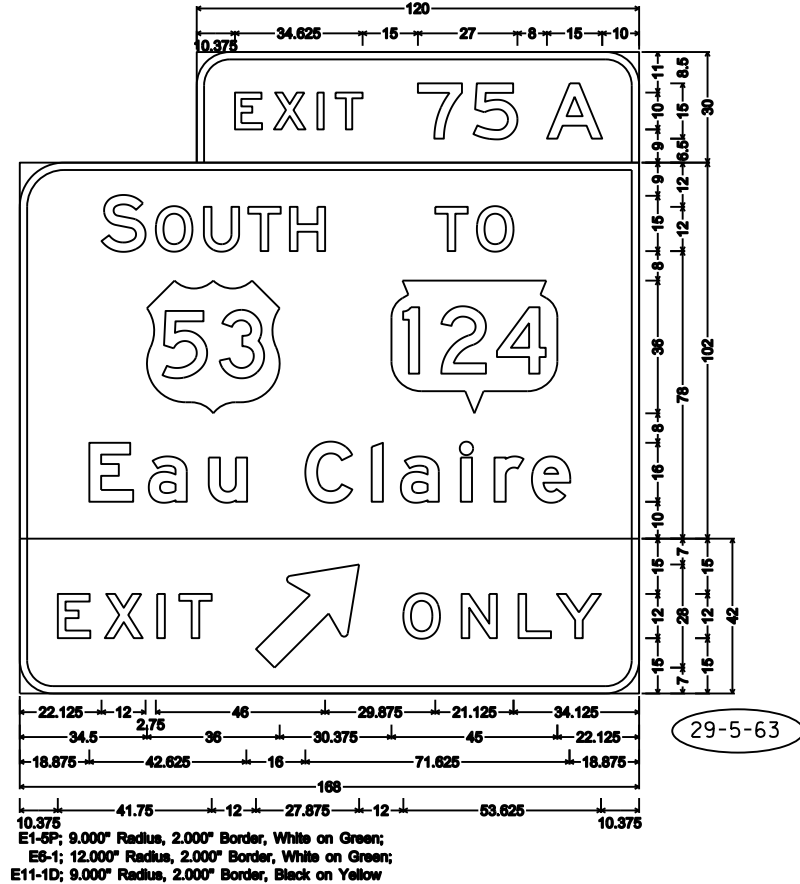
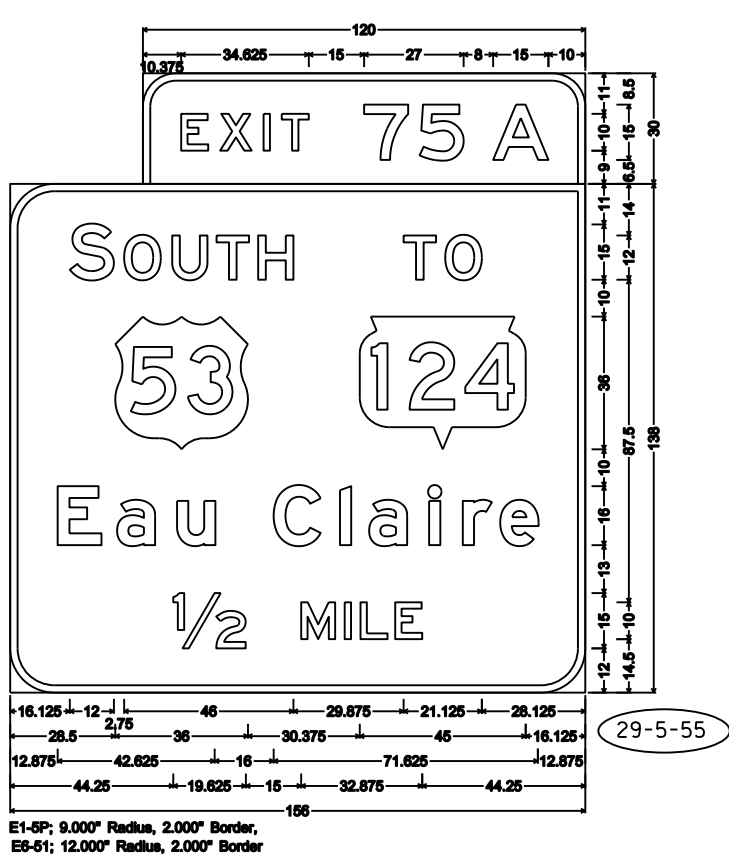
29-5-53

NOTES

1. Sign is Type I - Type SH Reflective
2. Color:
Background - Green except as noted
Message - White
3. Message Series - E Modified except all Cap Words Series E.
4. Exit Only Panels Type F Reflective with:
Background - Yellow
Message - Black

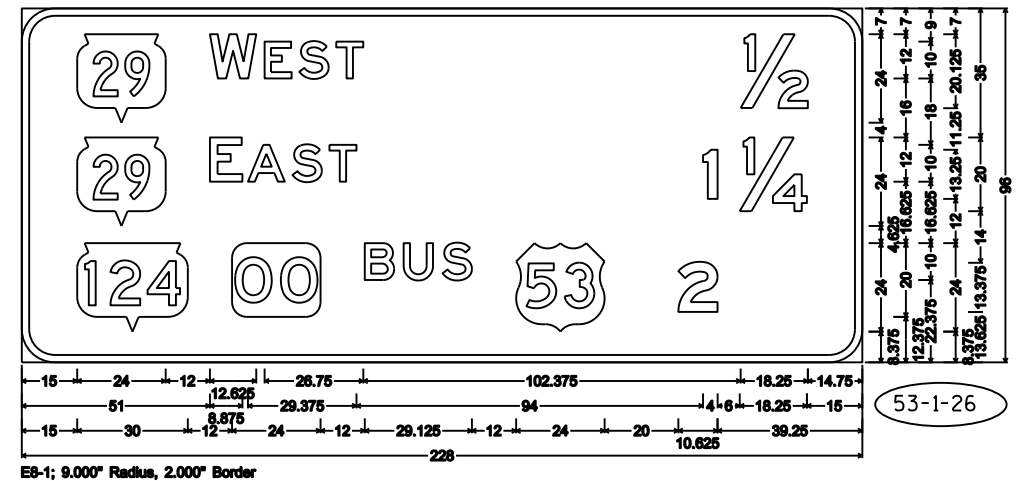
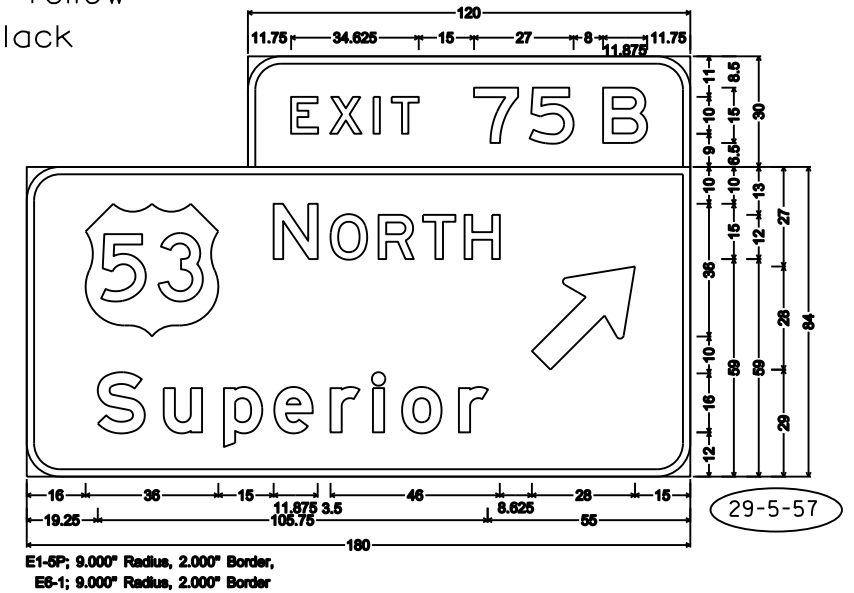


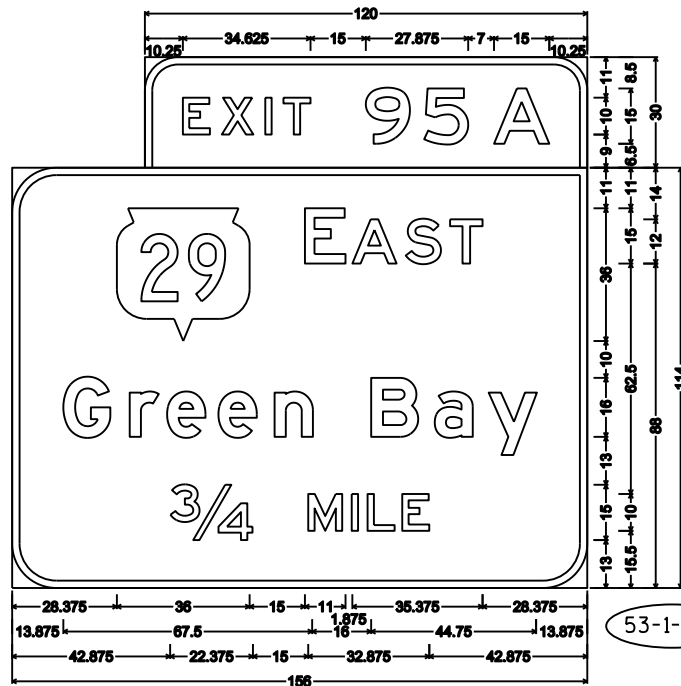
29-5-35



NOTES

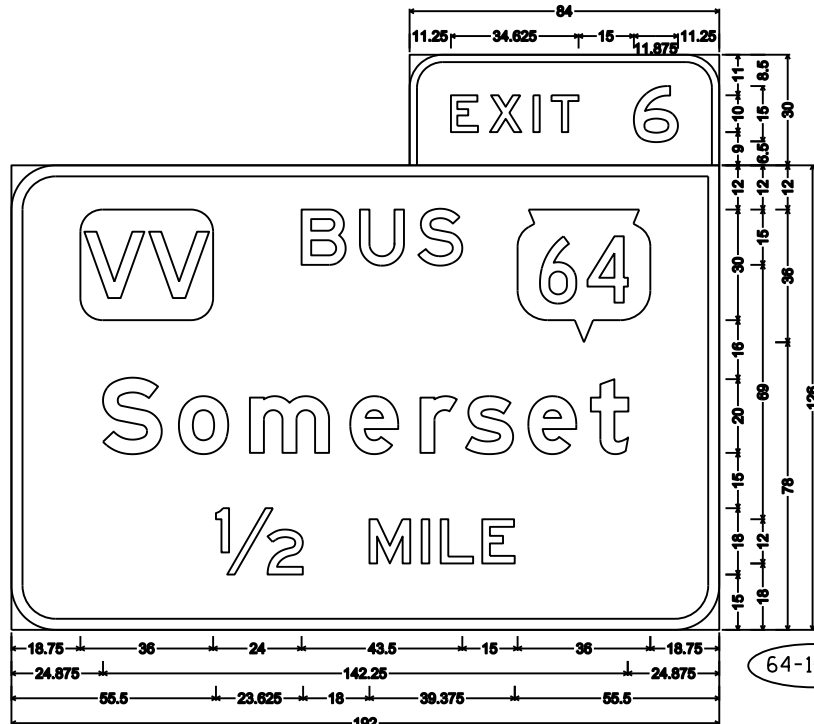
1. Sign is Type I - Type SH Reflective
2. Color:
Background - Green except as noted
Message - White
3. Message Series - E Modified except all Cap Words Series E.
4. Exit Only Panels Type F Reflective with:
Background - Yellow
Message - Black





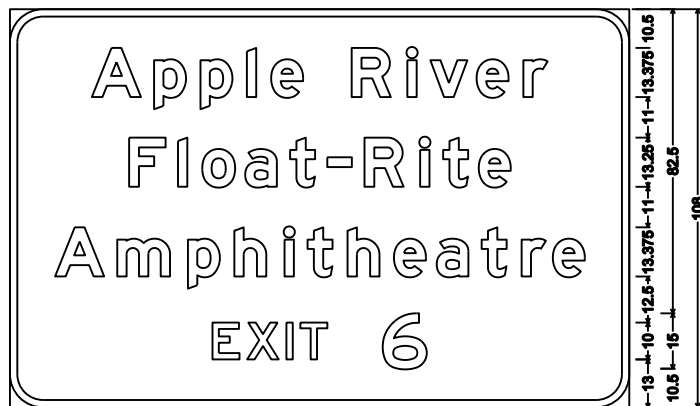
E1-5P; 9.000" Radius, 2.000" Border,
E6-51; 12.000" Radius, 2.000" Border

53-1-29



E1-5P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border

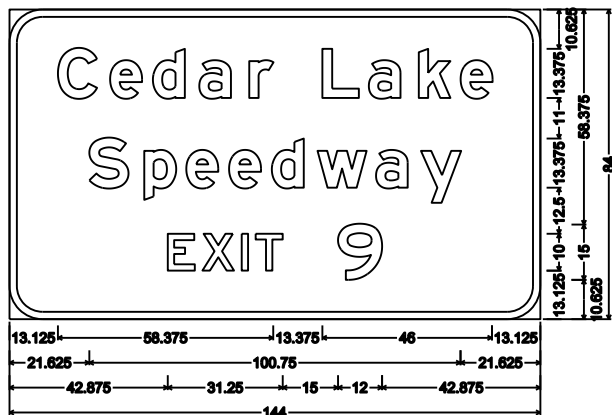
64-1-6



E3-1; 9.000" Radius, 2.000" Border

64-1-8

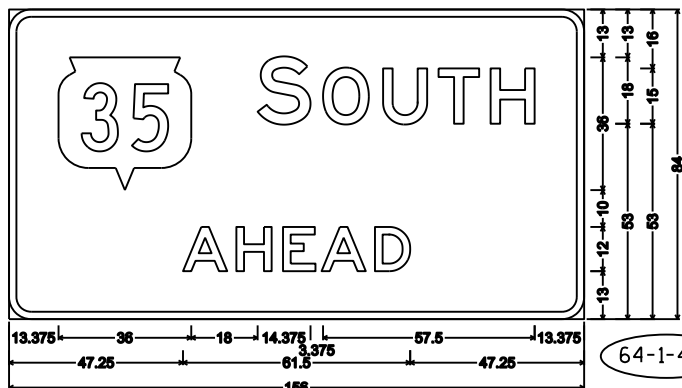
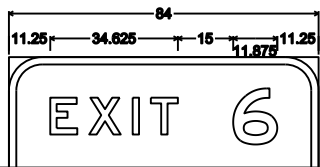
64-1-54



E3-1; 9.000" Radius, 2.000" Border, White on Green;
"Cedar" E Mod; "Lake" E Mod; "Speedway" E Mod; "EXIT" E; "9" E;

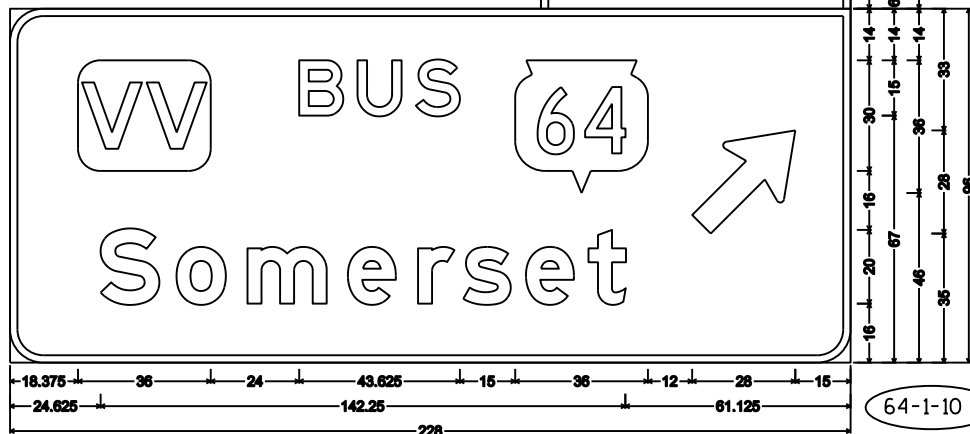
64-1-15

64-1-46



E3-1; 6.000" Radius, 2.000" Border

64-1-44

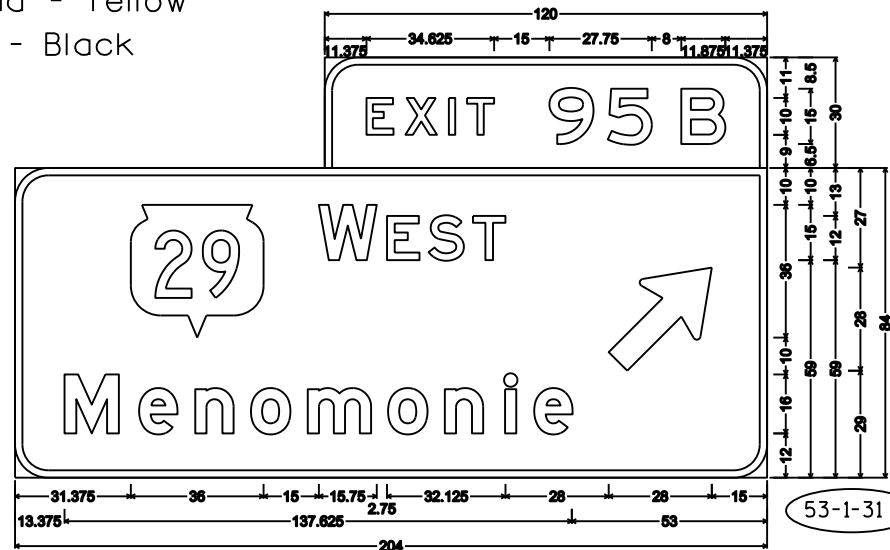


E1-5P; 9.000" Radius, 2.000" Border,
9.000" Radius, 2.000" Border

64-1-10

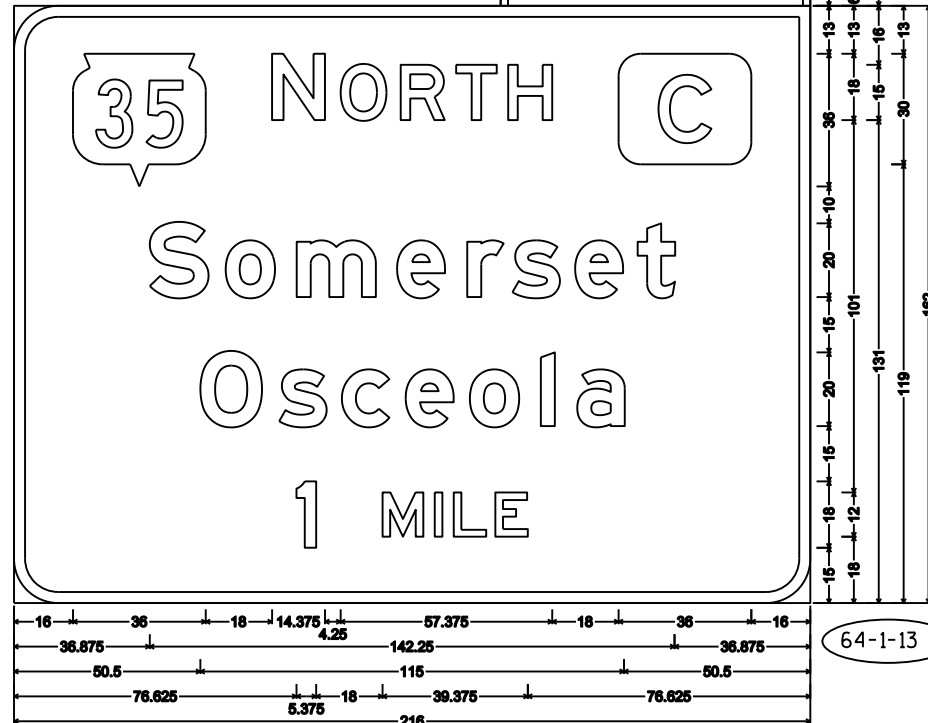
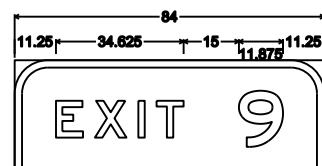
NOTES

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Message - Black



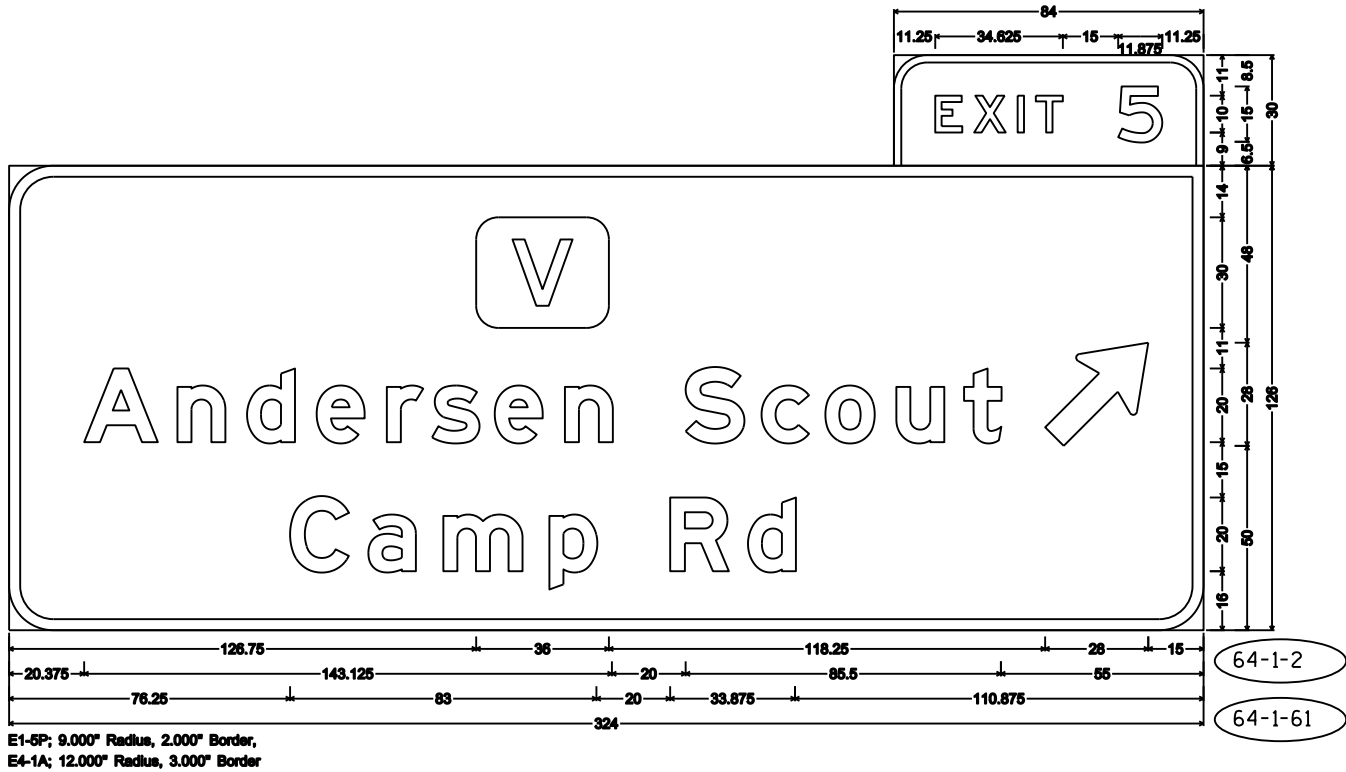
E1-5P; 9.000" Radius, 2.000" Border,
E6-1; 9.000" Radius, 2.000" Border

53-1-31

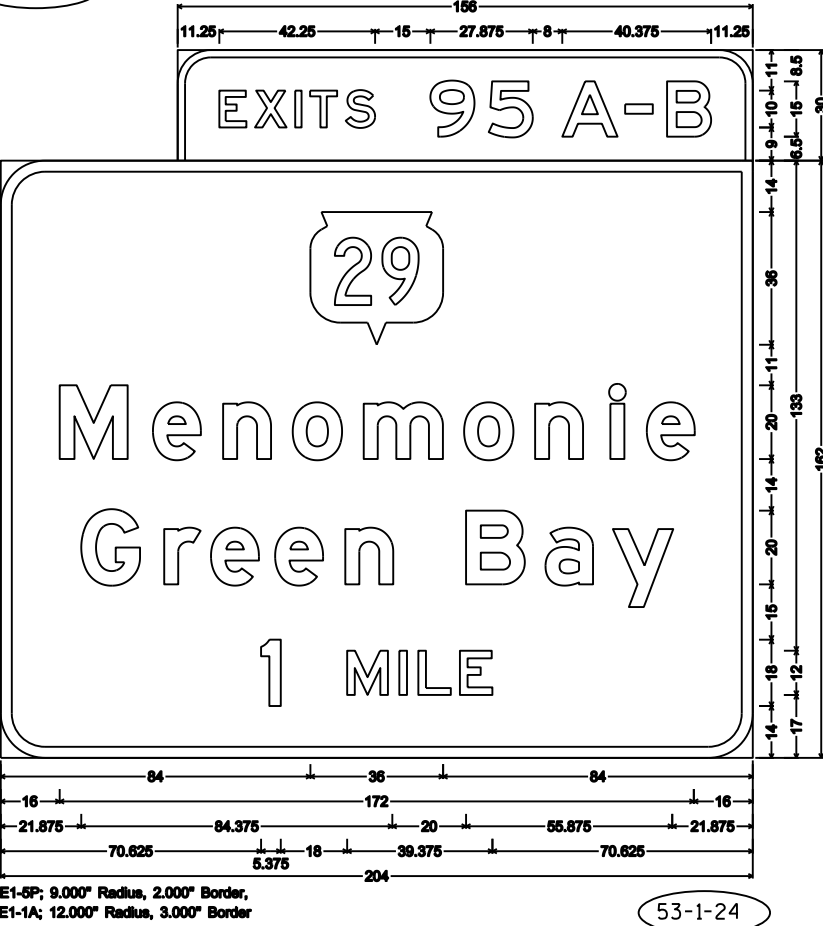
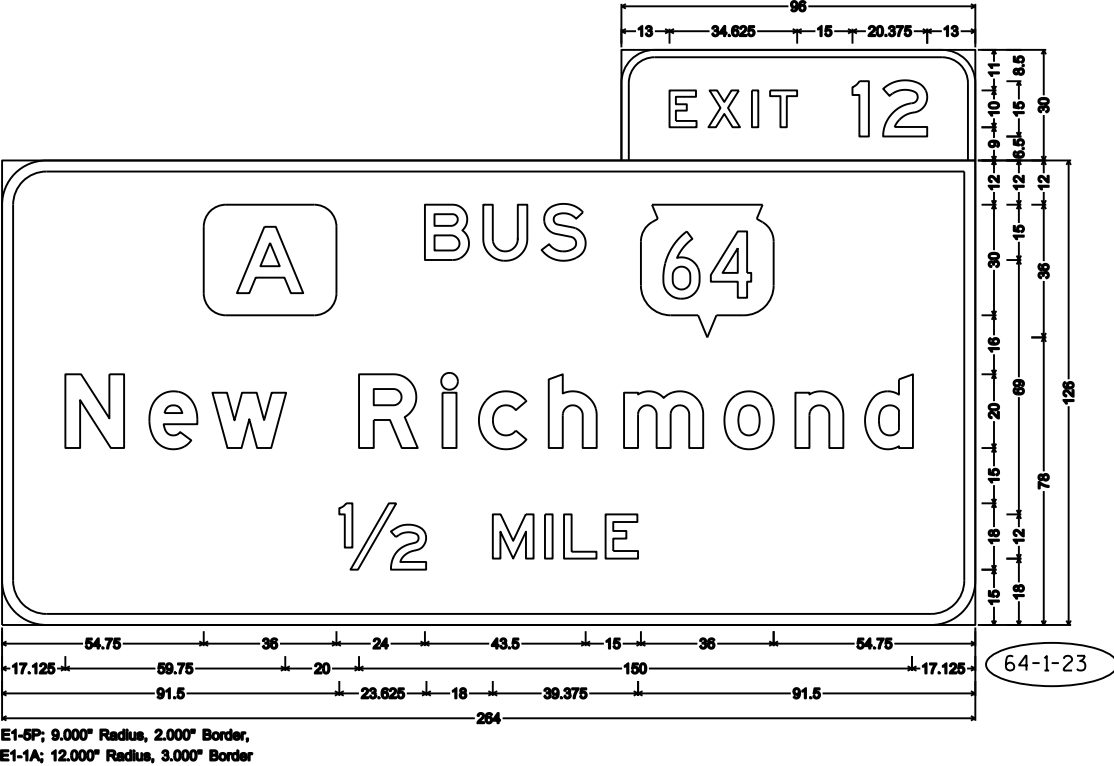
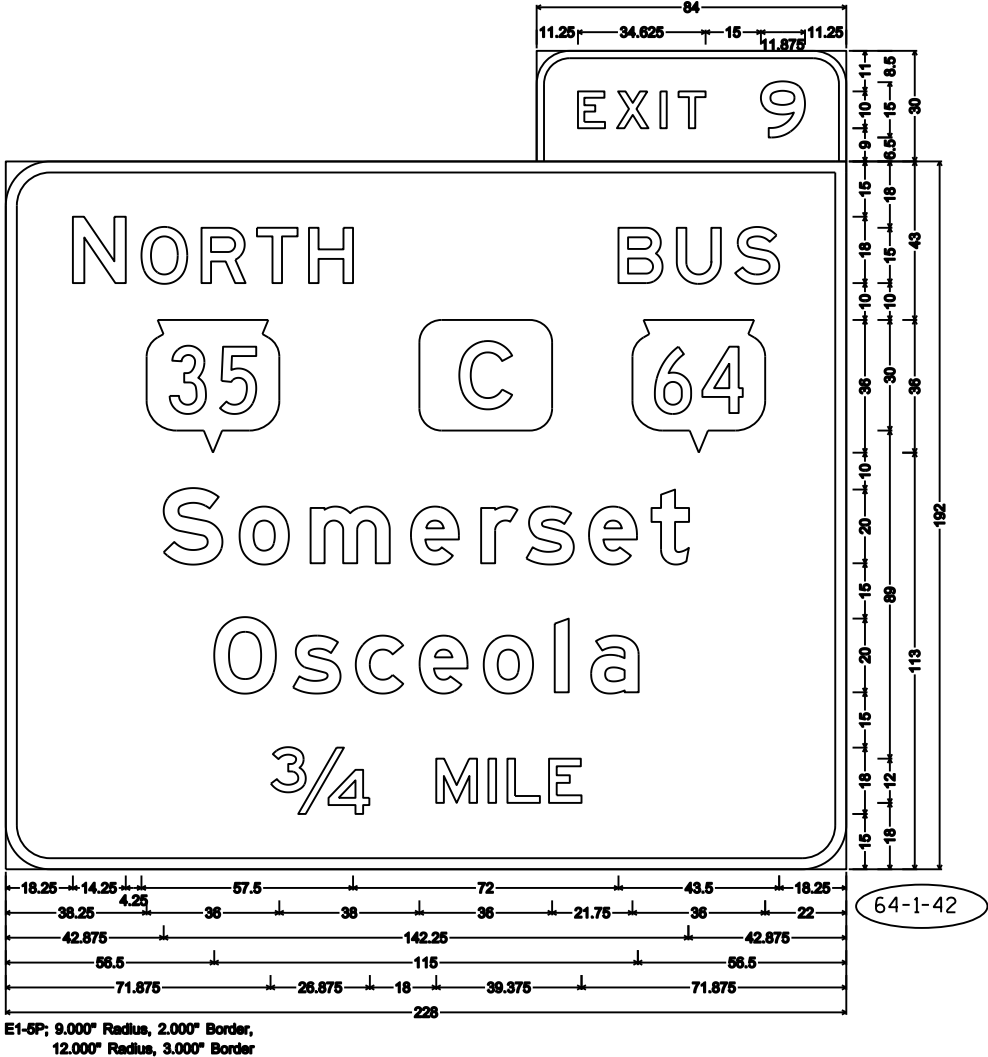
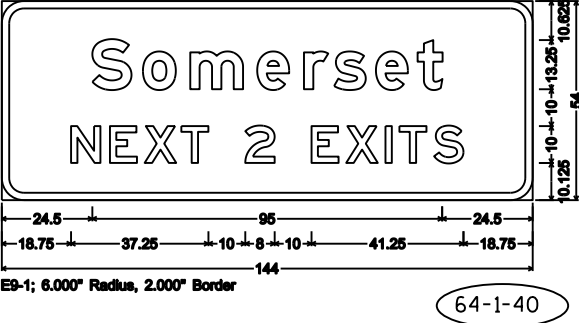
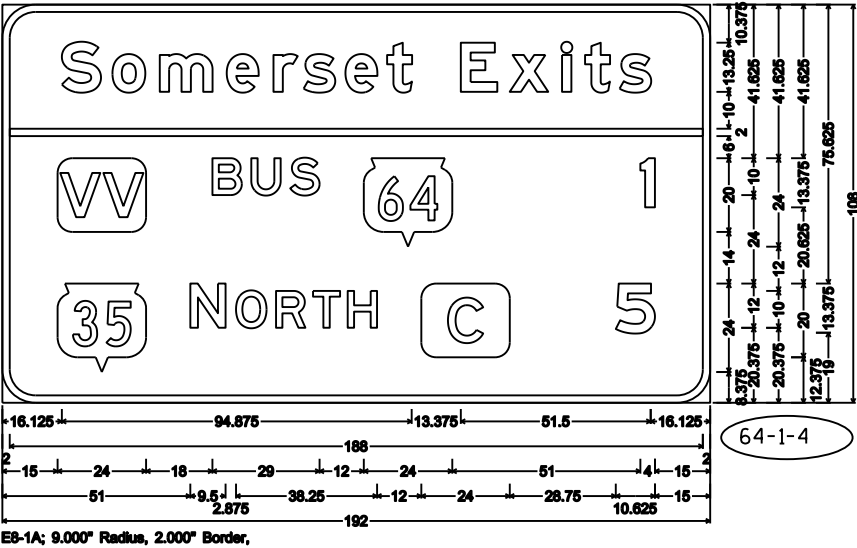


E1-5P; 9.000" Radius, 2.000" Border,
12.000" Radius, 3.000" Border

64-1-13

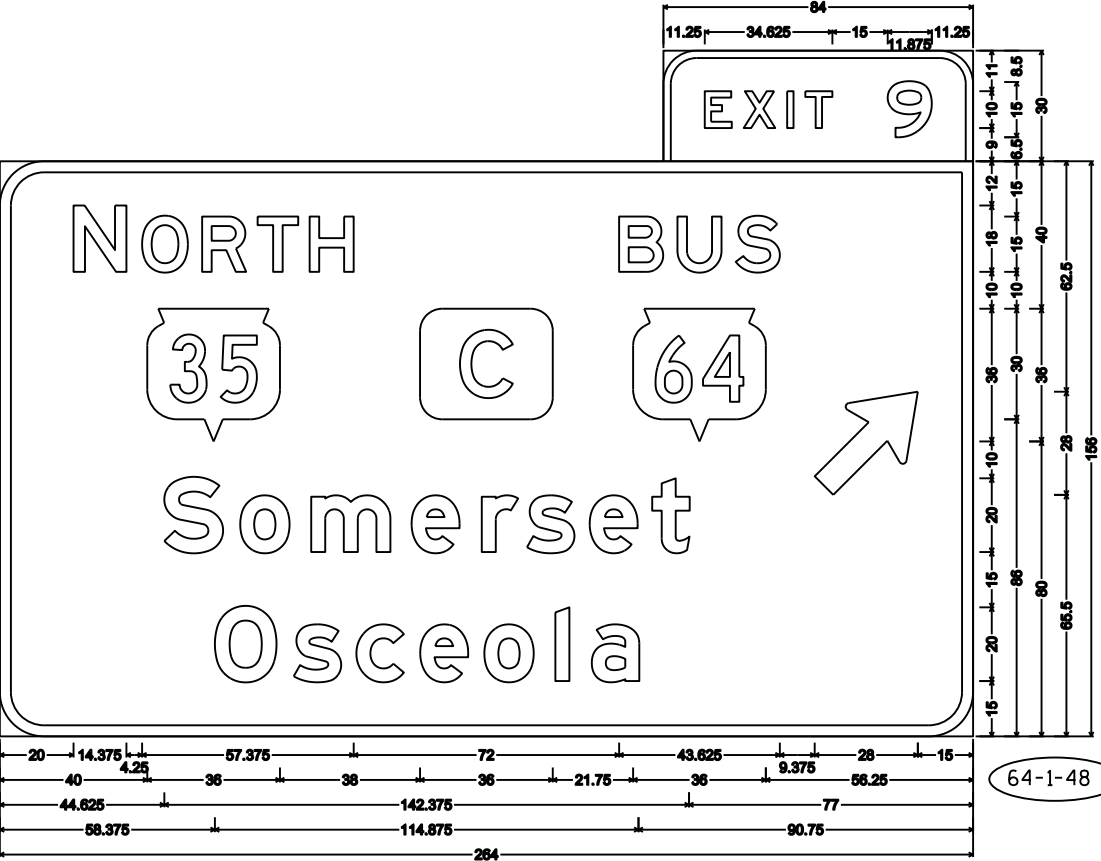


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Message - Black

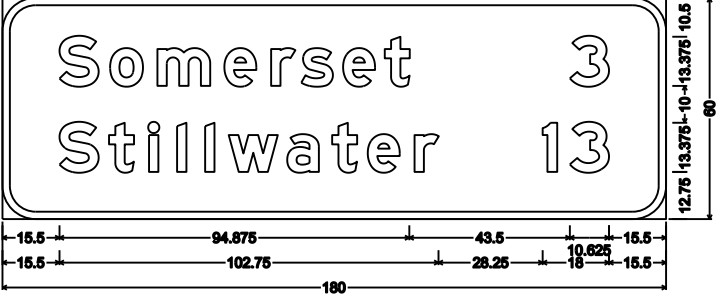


NOTES

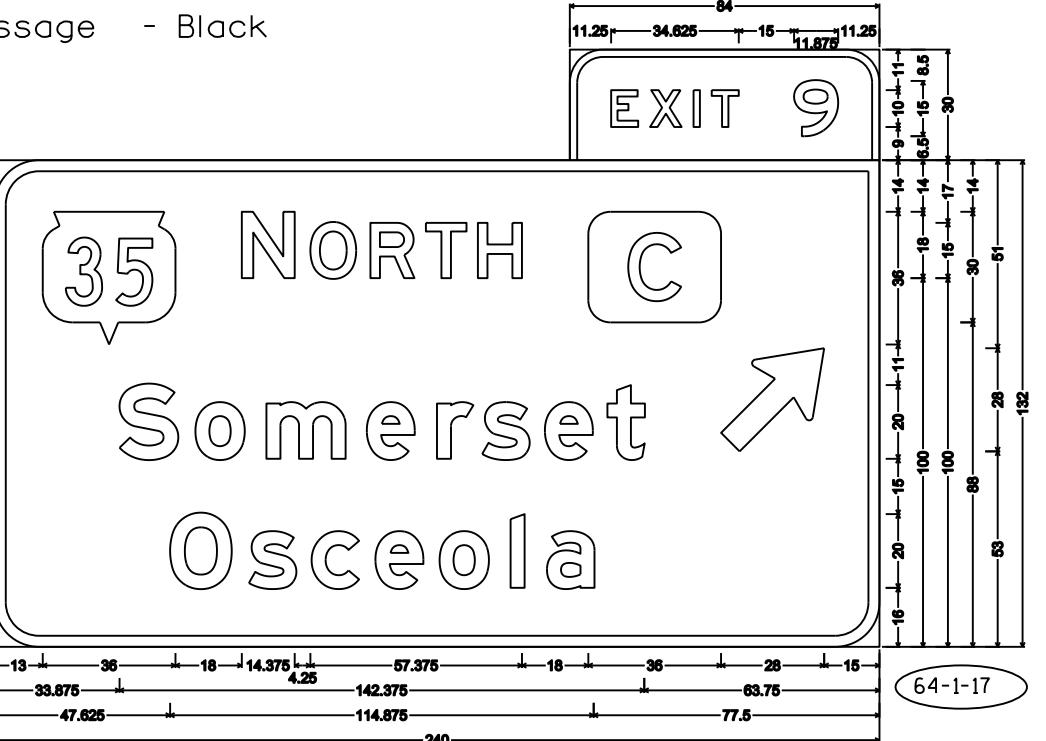
- 1. Sign is Type I - Type SH Reflective
- 2. Color:
Background - Green except as noted
Message - White
- 3. Message Series - E Modified except all Cap Words Series E.
- 4. Exit Only Panels Type F Reflective with:
Background - Yellow
Message - Black



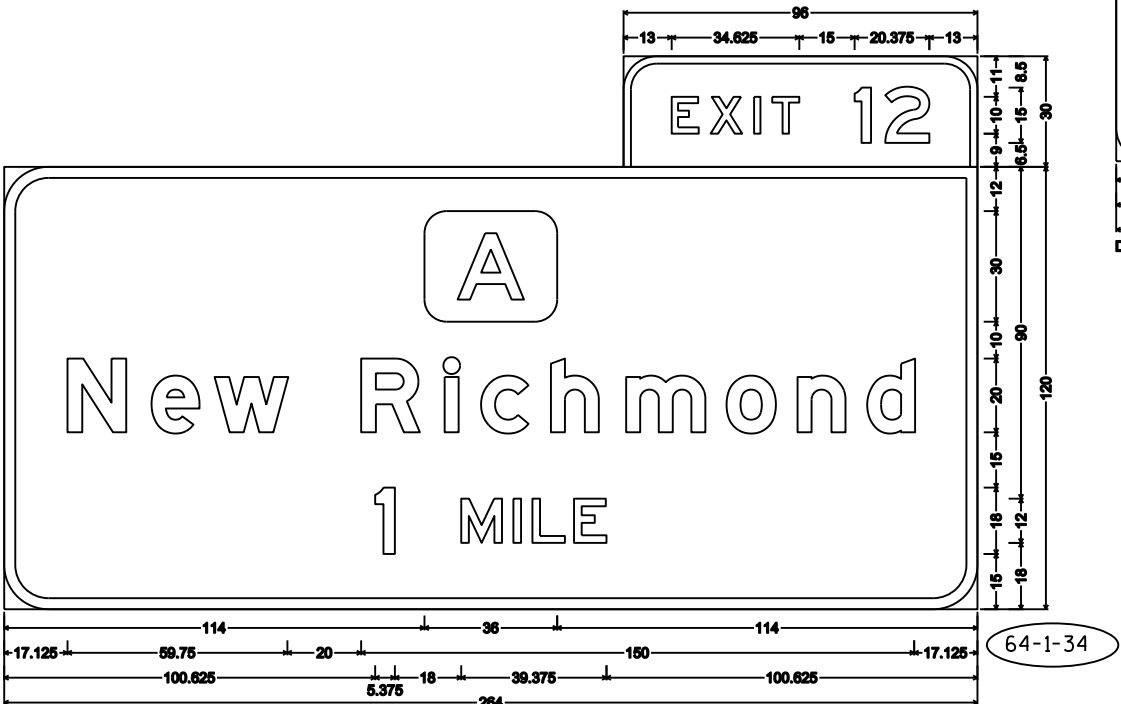
E1-5P; 9.000" Radius, 2.000" Border,
E4-1A; 12.000" Radius, 3.000" Border



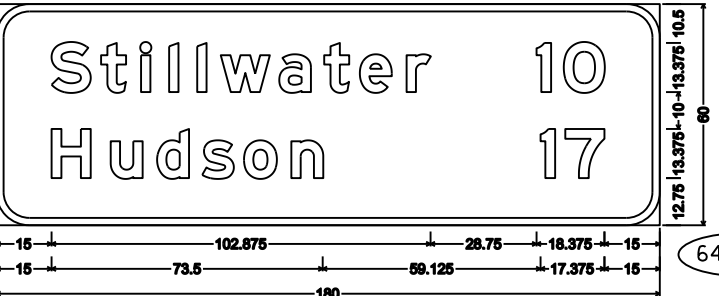
D2-2; 9.000" Radius, 2.000" Border



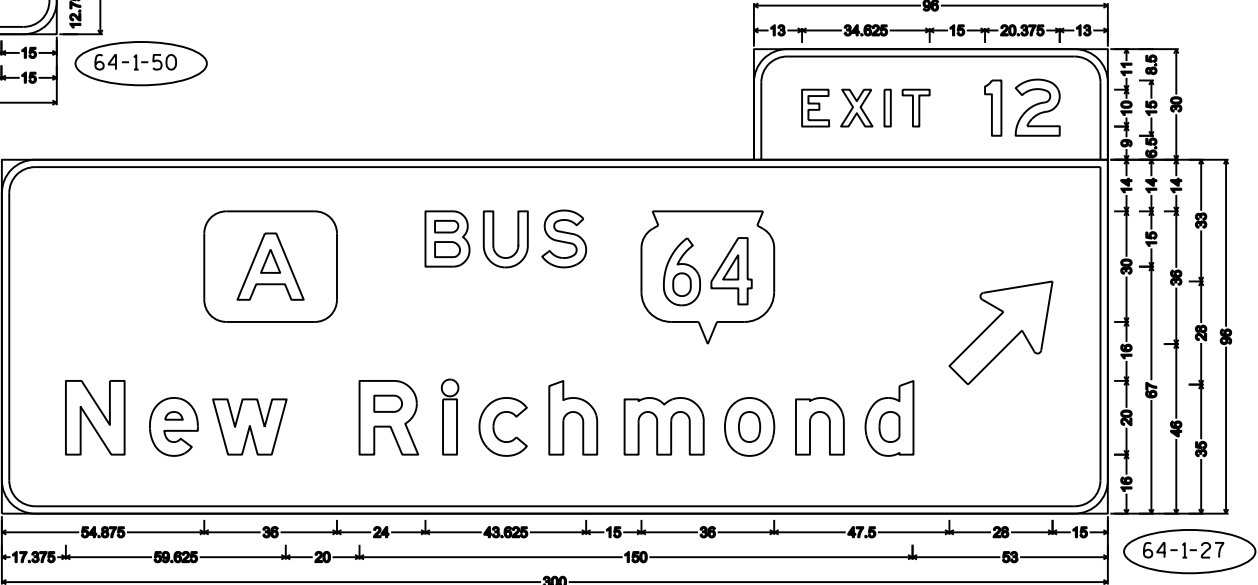
E1-5P; 9.000" Radius, 2.000" Border,
E4-1A; 12.000" Radius, 3.000" Border



E1-5P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border



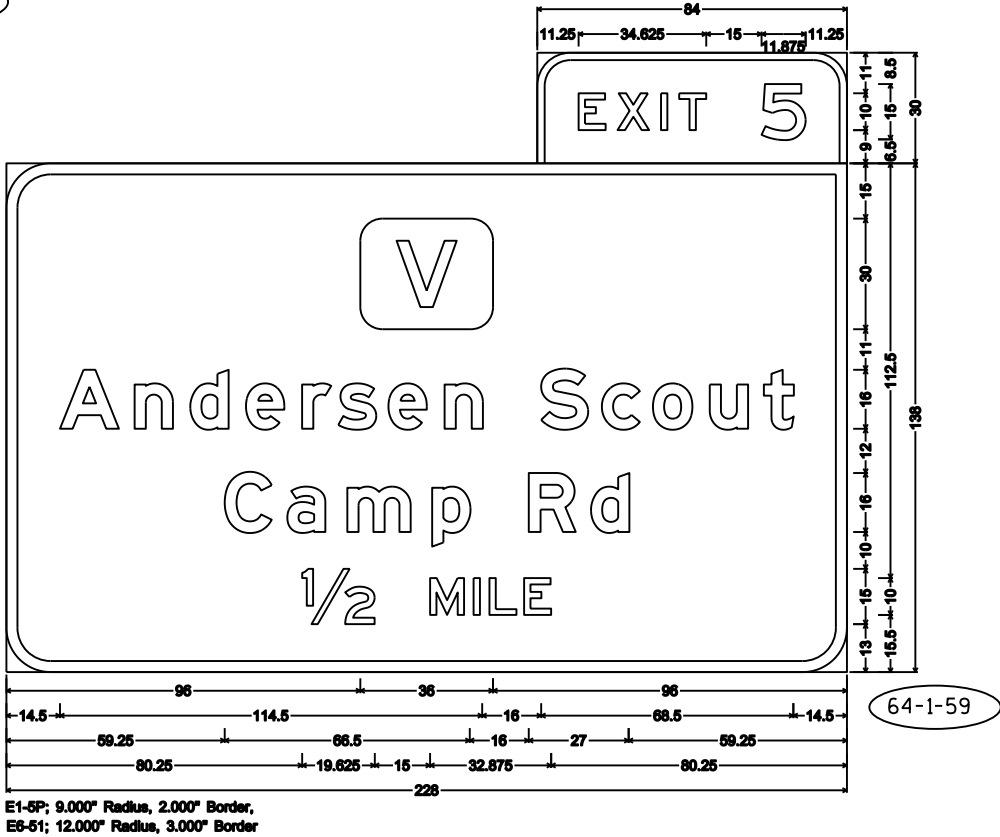
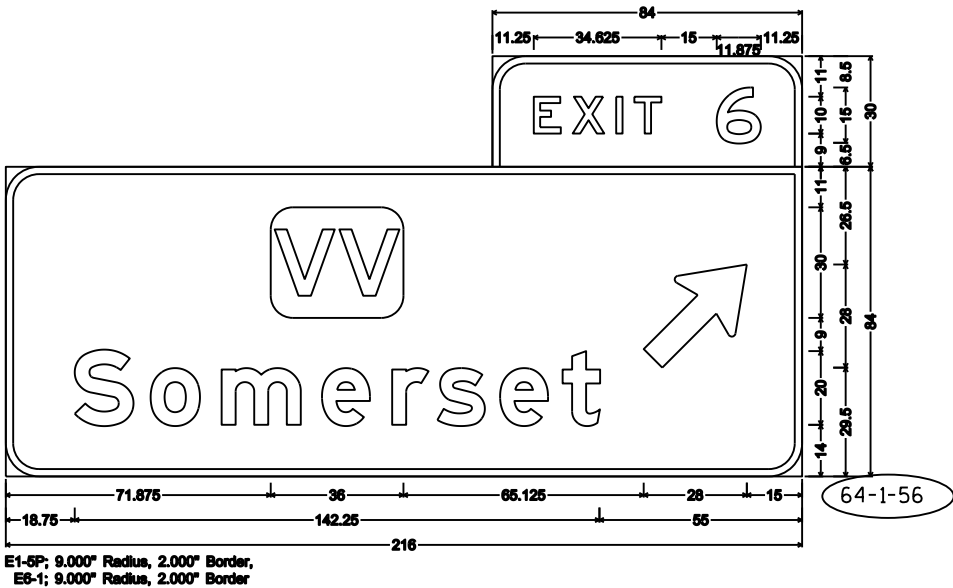
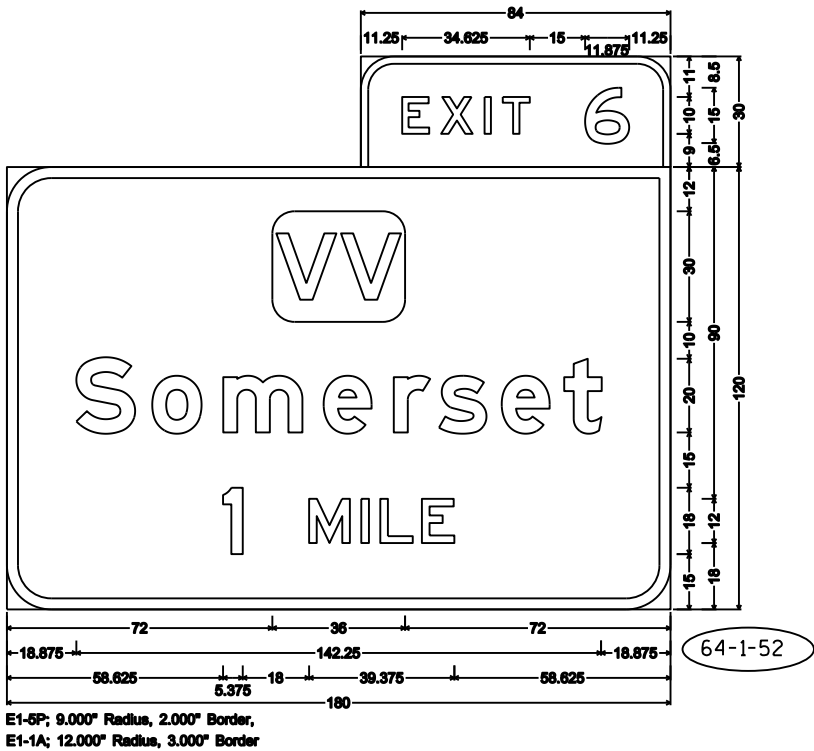
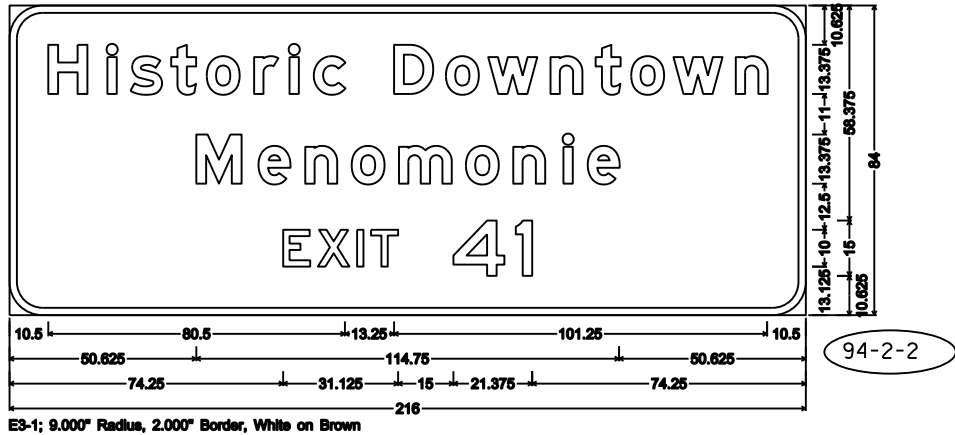
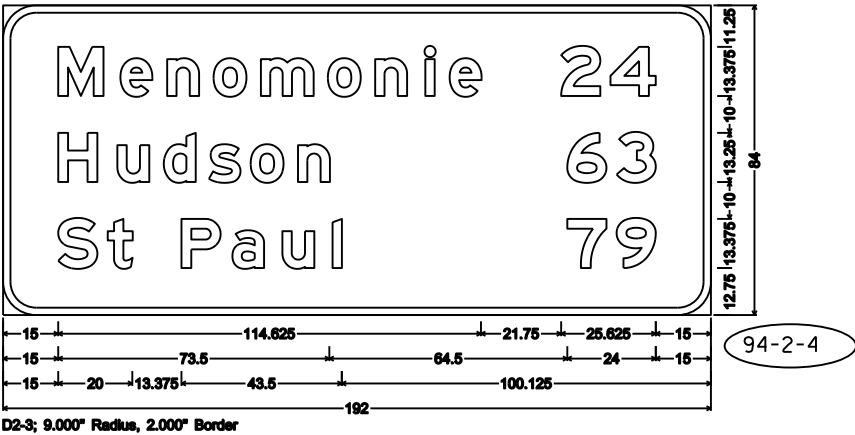
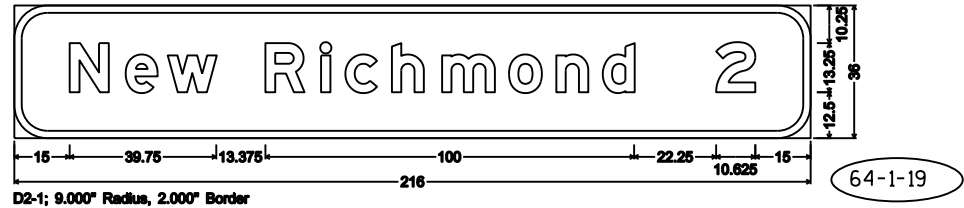
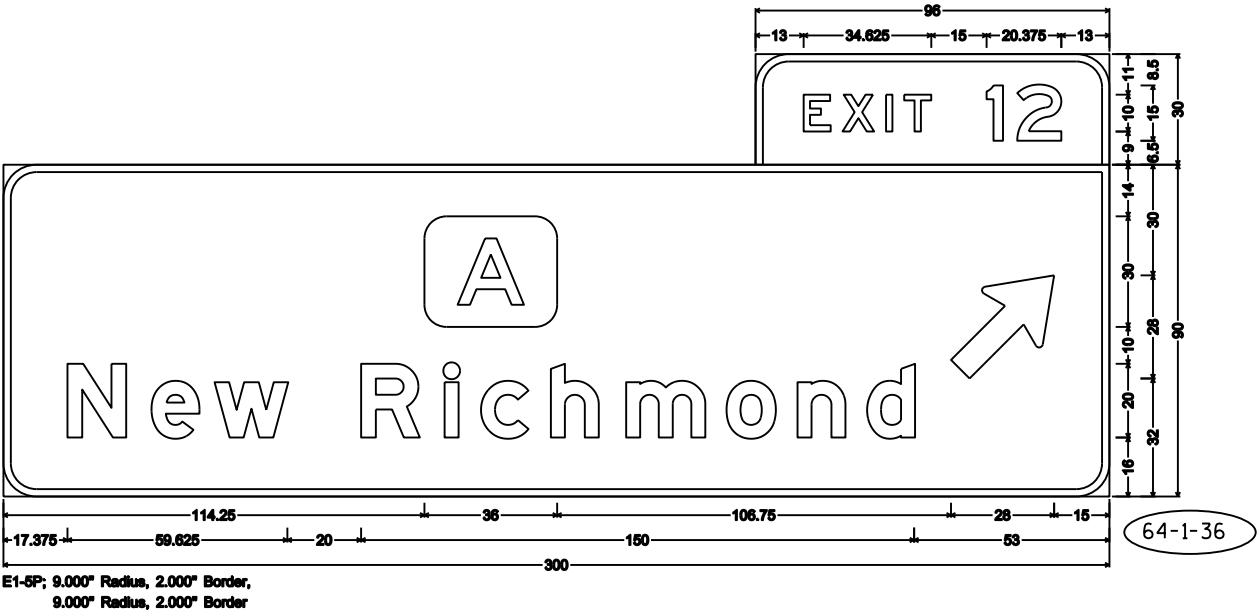
D2-2; 9.000" Radius, 2.000" Border

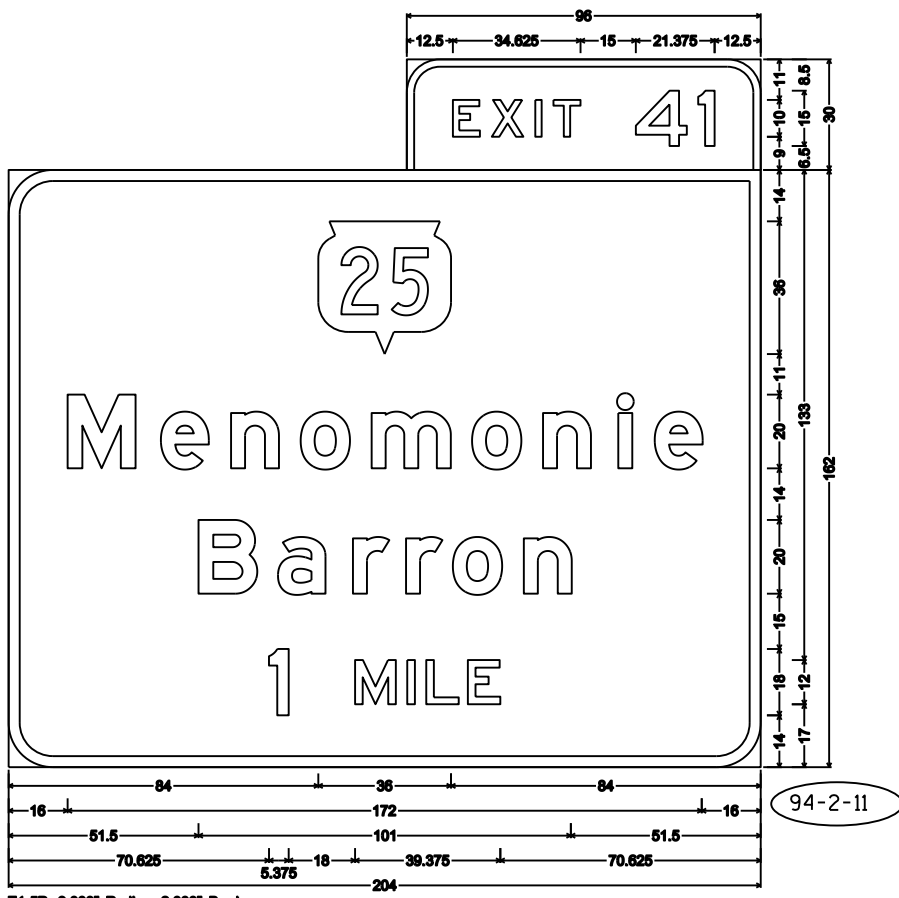


E1-5P; 9.000" Radius, 2.000" Border,
9.000" Radius, 2.000" Border

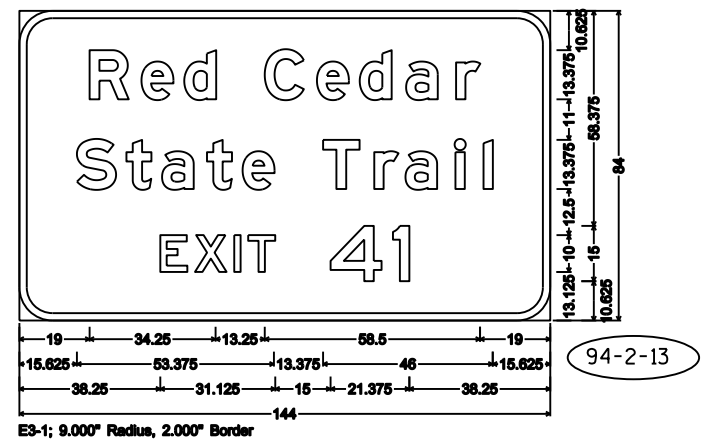
NOTES

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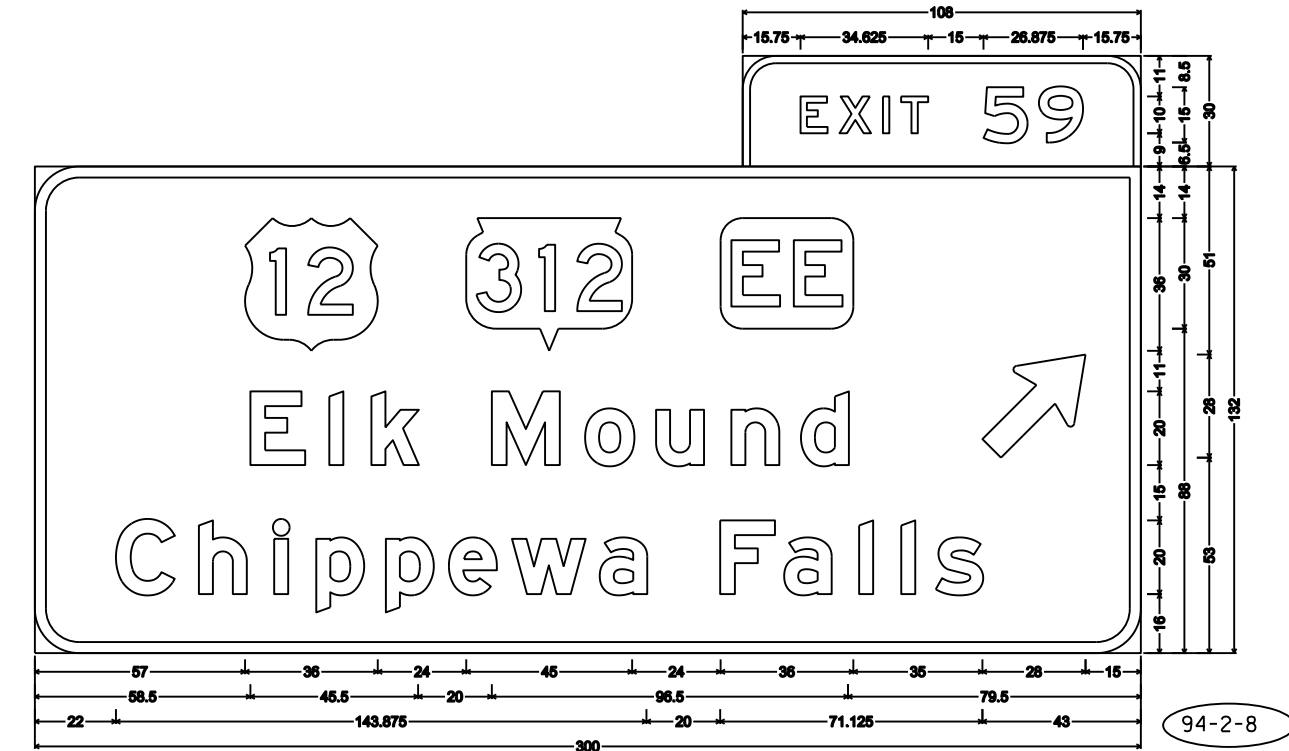




E1-5P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border

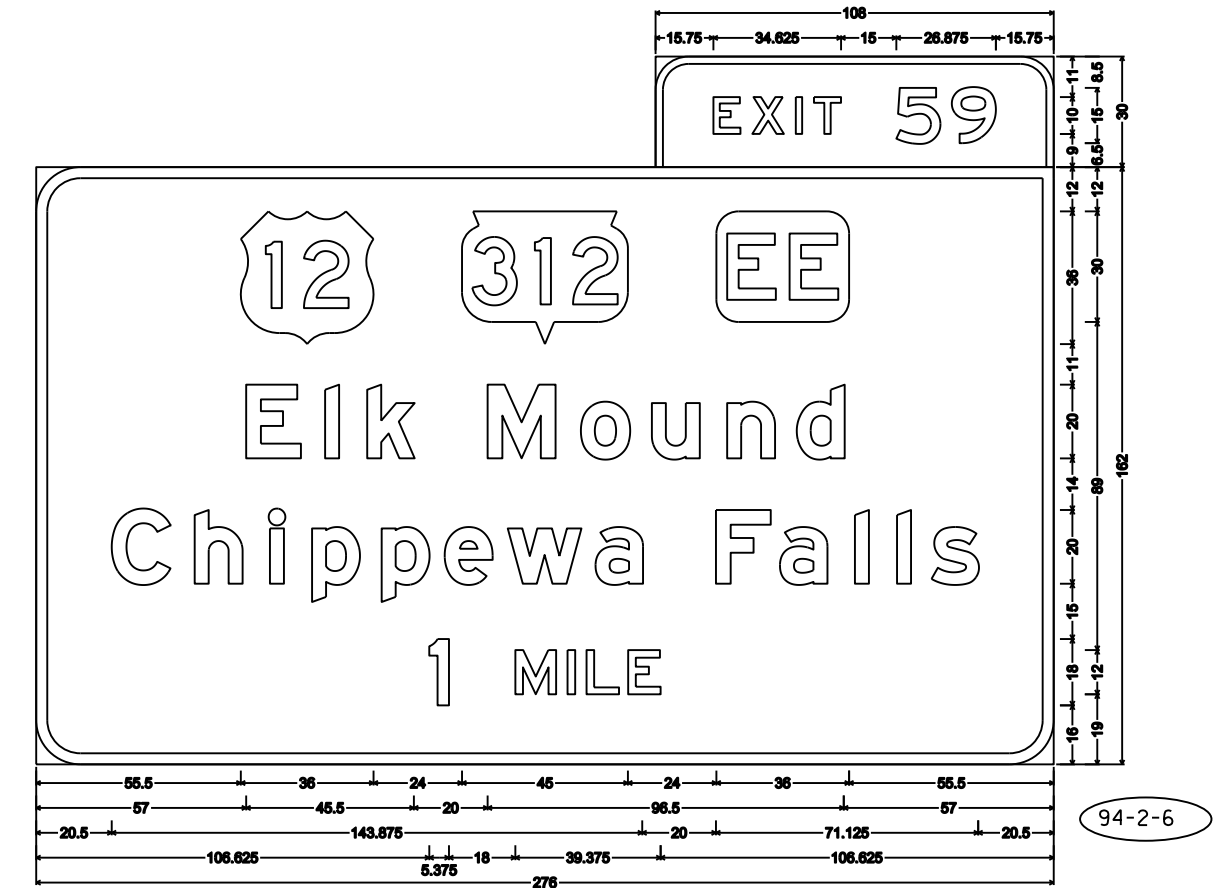


E3-1; 9.000" Radius, 2.000" Border

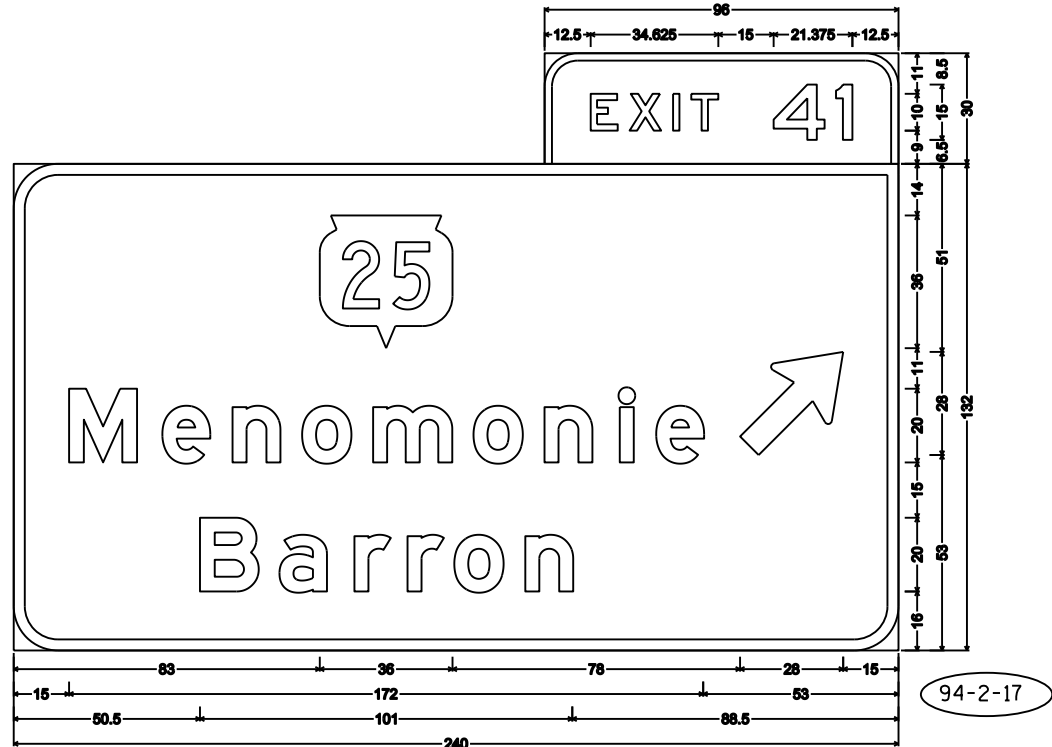


E1-5P; 9.000" Radius, 2.000" Border,
E4-1A; 12.000" Radius, 3.000" Border

- NOTES
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Message - Black



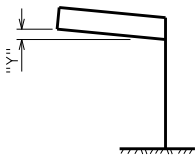
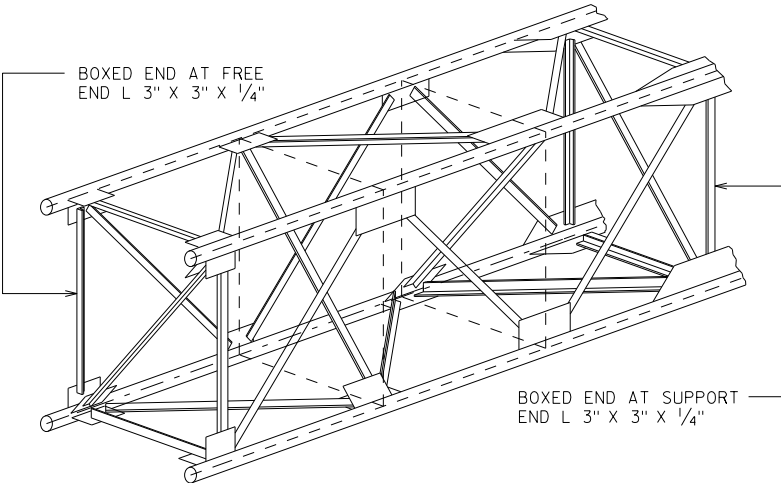
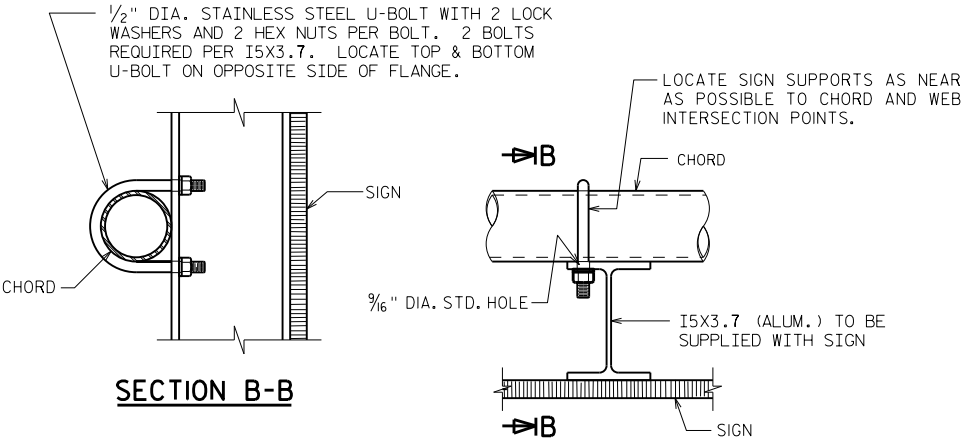
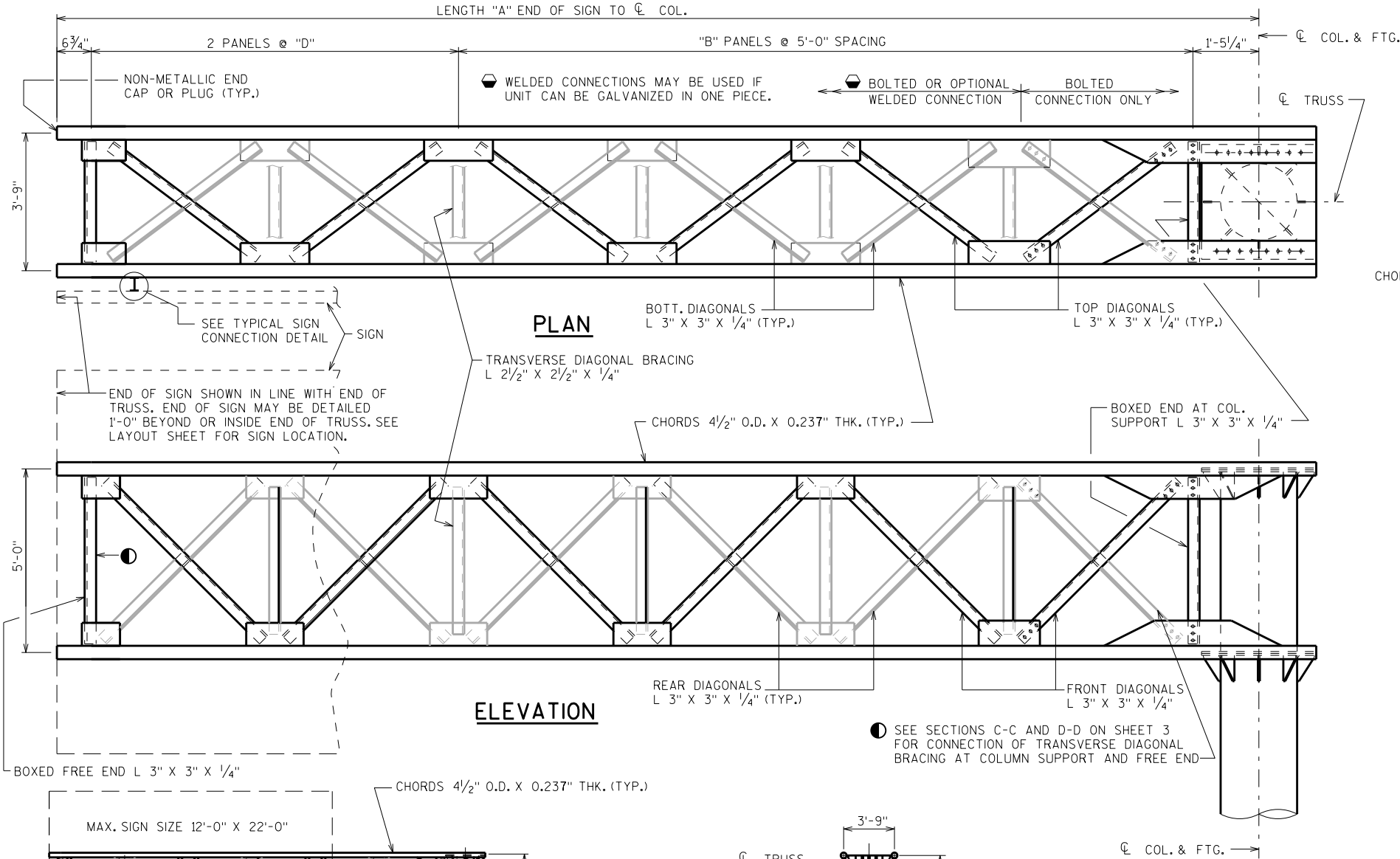
E1-5P; 9.000" Radius, 2.000" Border,
E1-1A; 12.000" Radius, 3.000" Border



E1-5P; 9.000" Radius, 2.000" Border,
E4-1A; 12.000" Radius, 3.000" Border

NOTES

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2. Color:
Background - Green except as noted
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3. Message Series - E Modified except all Cap Words Series E.

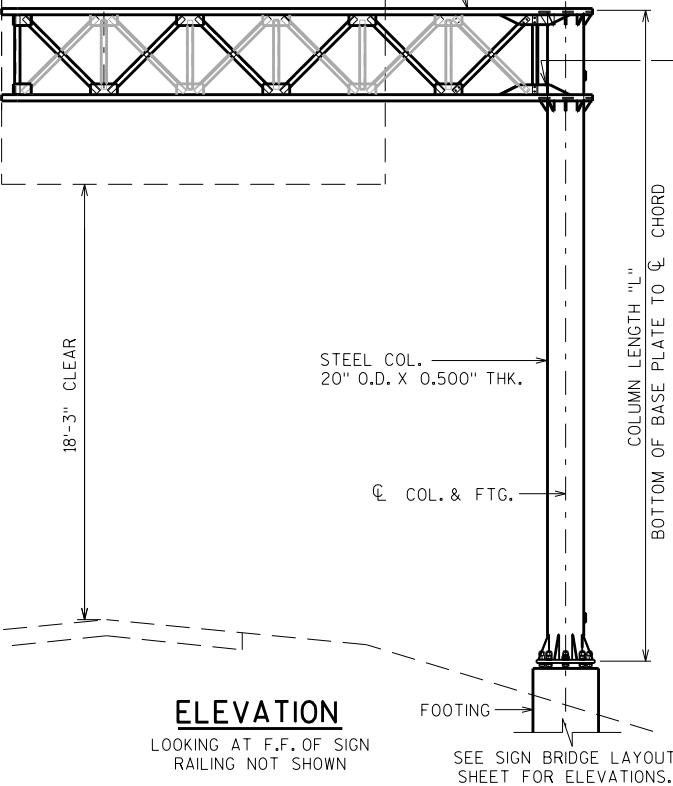


CAMBER DIAGRAM

PREFABRICATE CAMBER INTO THE HORIZONTAL SUPPORT PROVIDING AN AMOUNT "Y" AT END OF TRUSS SHOWN. DO NOT RAKE VERTICAL UPRIGHT BY ADJUSTMENT OF LEVELING NUTS.

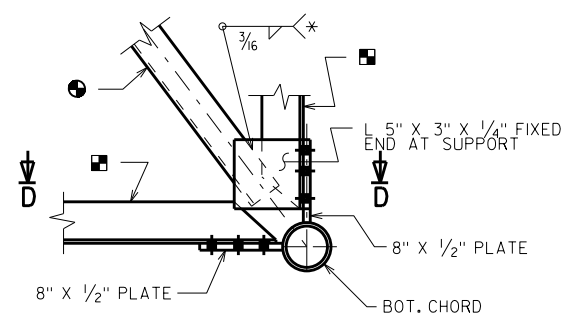
DIMENSIONS & CAMBER VALUES

STRUCTURE	"A"	"L"	"B"	"D"	"Y"
S-37-159	30 FT	25'-3 3/4"	4	4 FT	3"

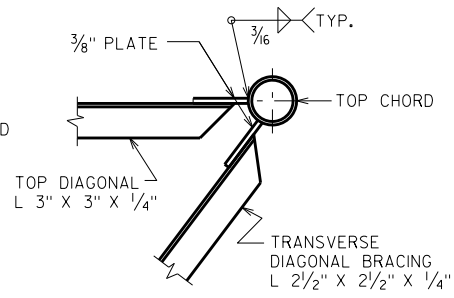


END VIEW

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE S-37-159			
DRAWN BY JJS		PLANS CK'D. SAD	
GALVANIZED STEEL CANTILEVER SIGN TRUSS			SHEET 2
			158



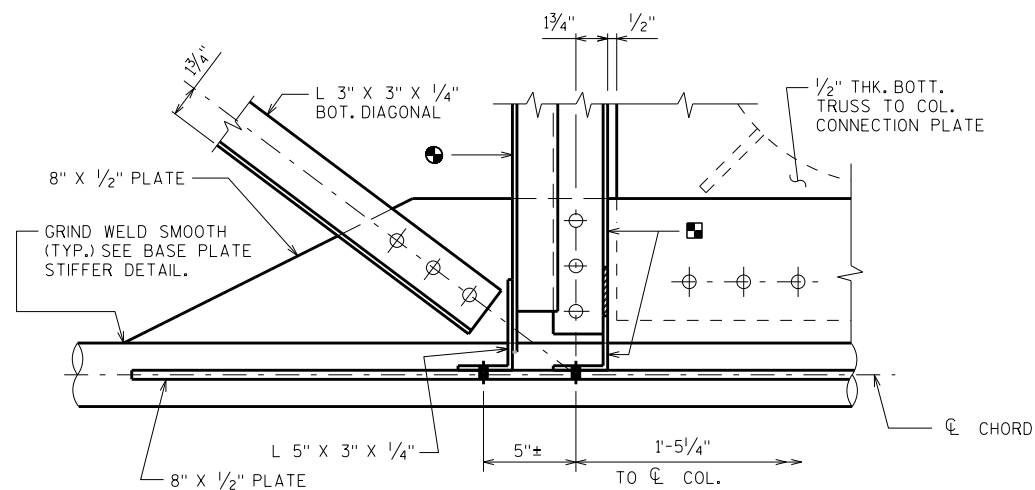
SECTION C-C



SECTION B-B

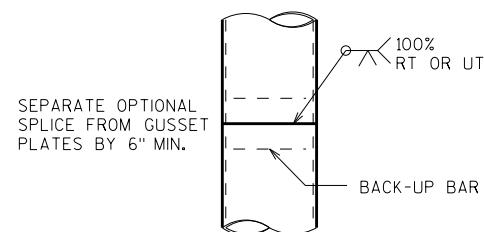
ANGLE SIZE	*WELD LENGTH (MIN.)
L 2 1/2" x 2 1/2" x 1/4"	7"
L 3" x 3" x 1/4"	8"

WELDED CONNECTIONS MAY BE USED IF UNIT CAN BE GALVANIZED IN ONE PIECE.

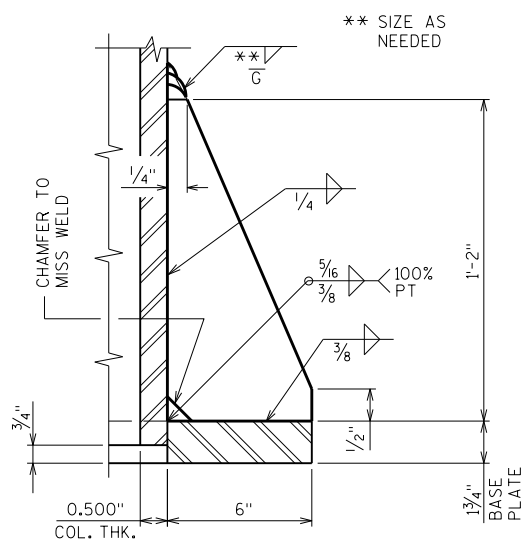


SECTION D-D

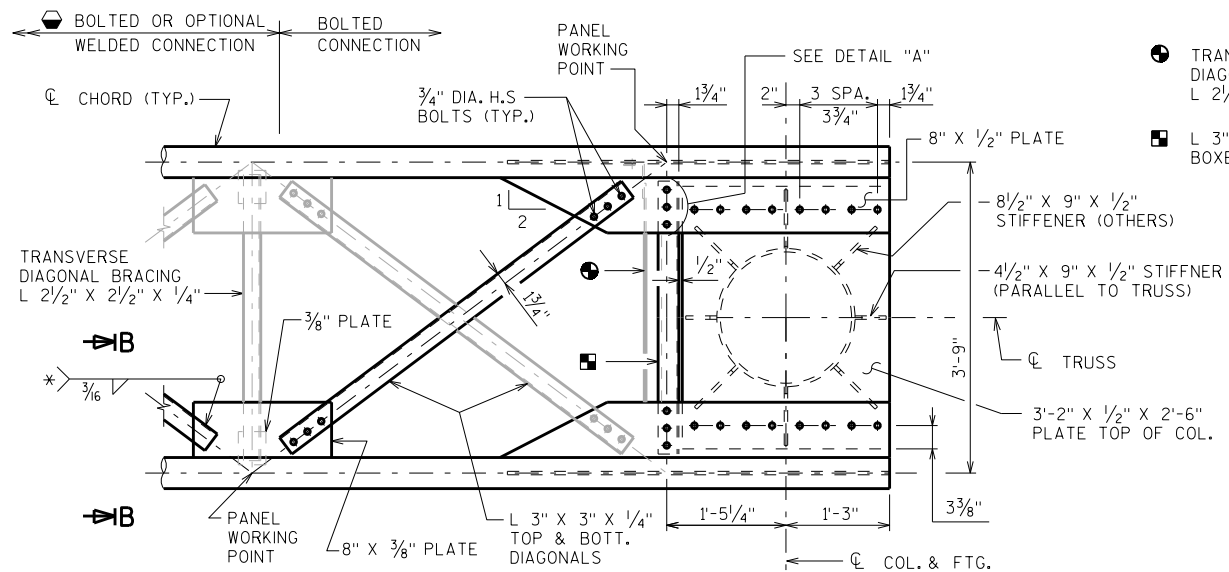
(LOOKING DOWN @ BOT. HORIZ. PLANE @ FRONT CHORD)



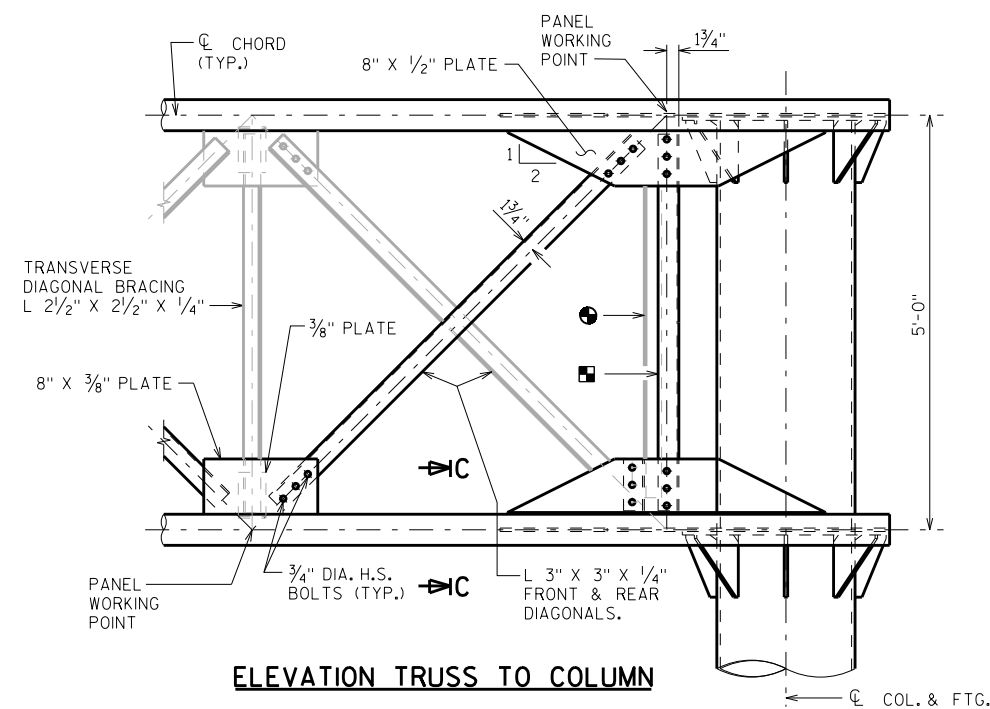
OPTIONAL COLUMN OR CHORD SPLICE DETAIL



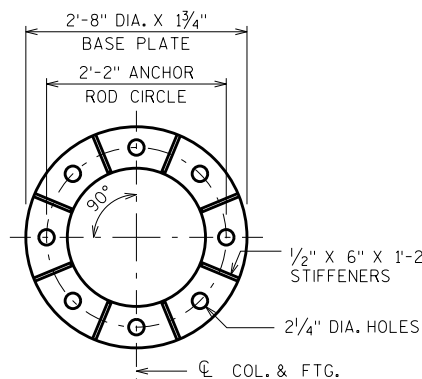
BASE PLATE STIFFENER DETAIL



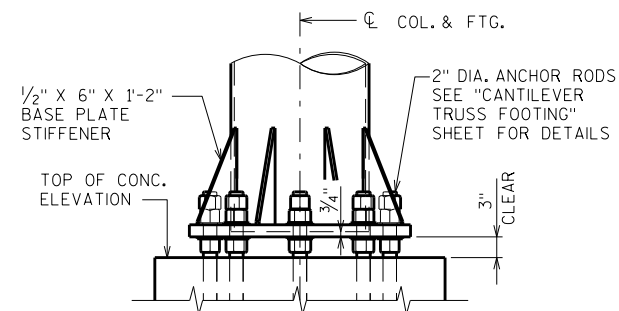
PLAN TRUSS TO COLUMN



ELEVATION TRUSS TO COLUMN

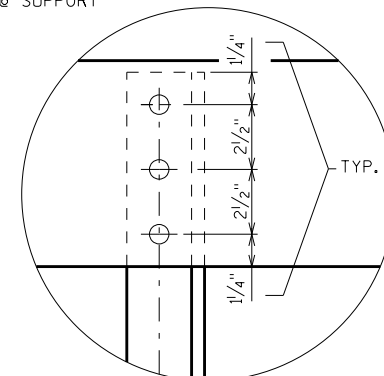


BASE PLATE DETAILS

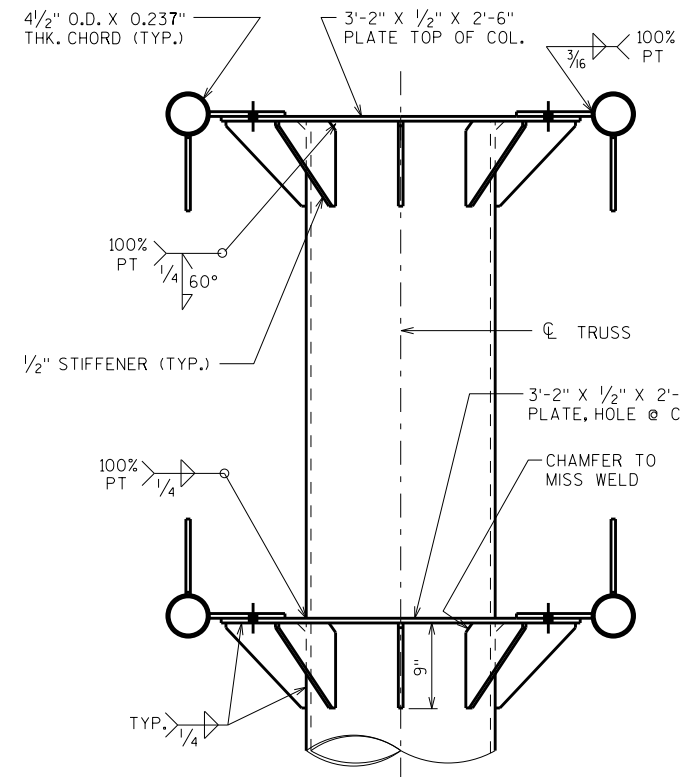


TRANSVERSE DIAGONAL BRACING L 2 1/2" x 2 1/2" x 1/4"

L 3" x 3" x 1/4" BOXED END @ SUPPORT



DETAIL "A"



END VIEW TRUSS TO COLUMN

(WEB MEMBERS NOT SHOWN)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE S-37-159			
DRAWN BY JJS		PLANS CKD. SAD	
GALVANIZED STEEL CANTILEVER SIGN TRUSS DETAILS		SHEET 3	159

NOTES

CONTRACTOR SHALL VERIFY UTILITY CONFLICTS PRIOR TO CONSTRUCTION OF FOOTING.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

BENDING DIMENSIONS ARE OUT TO OUT OF BAR.

CENTER ANCHOR ROD ASSEMBLY TO MISS BAR STEEL REINFORCEMENT AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED ON PLAN. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURE IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

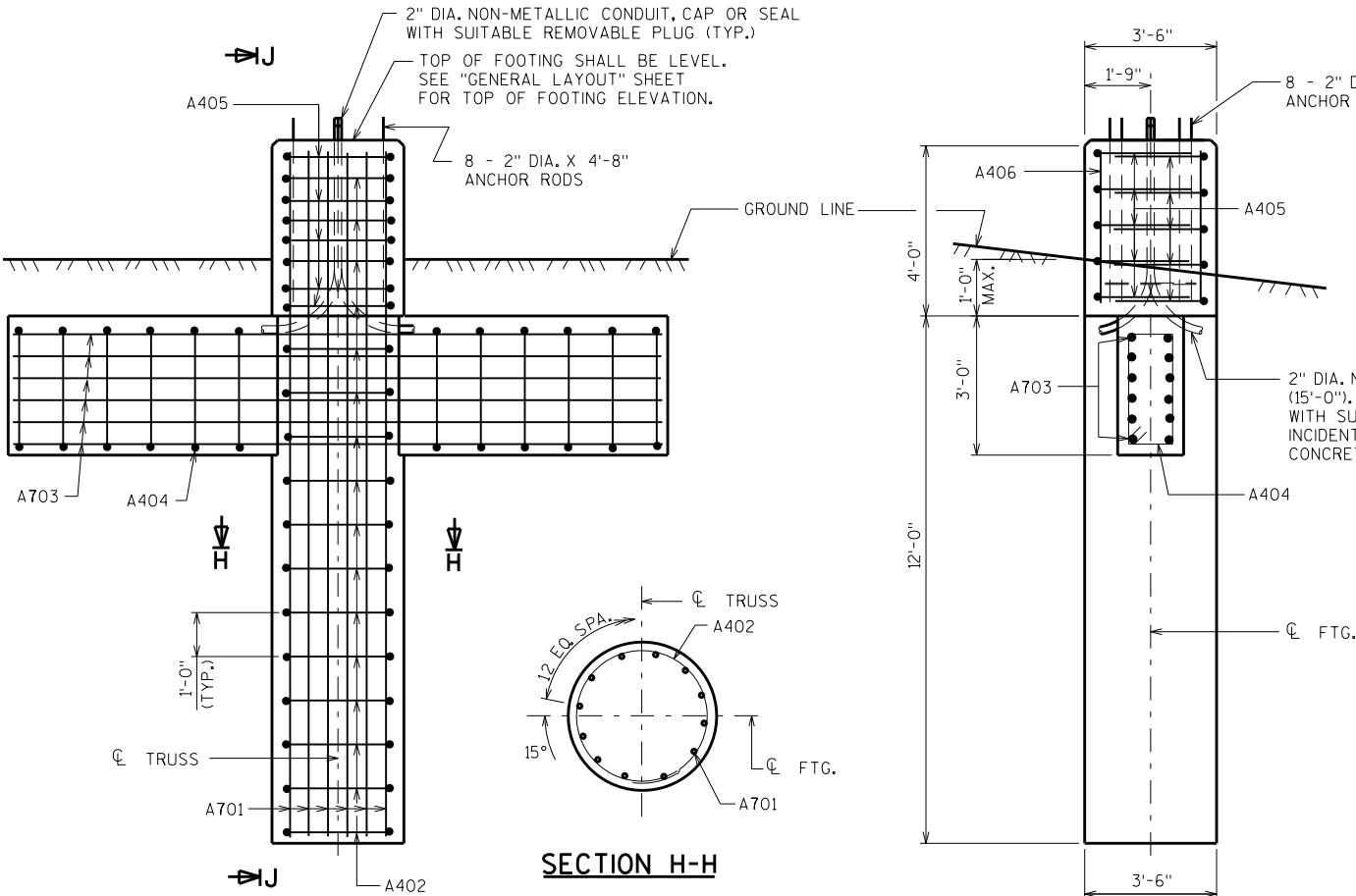
PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES.

FOUNDATION DATA

ALLOWABLE Qp = 4,000 P.S.F.

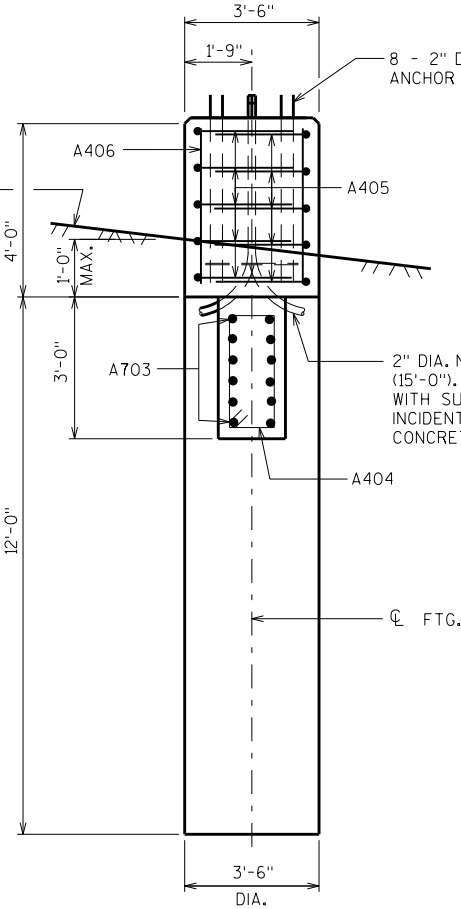
BILL OF BARS

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A701	X	12	15'-6"			FOOTING - COLUMN/TOP
A402	X	16	11'-2"	X		FOOTING - COLUMN/TOP
A703	X	12	15'-0"			FOOTING - WINGS
A404	X	12	7'-6"	X		FOOTING - WINGS
A405	X	10	7'-11"	X		FOOTING - TOP
A406	X	4	3'-6"			FOOTING - TOP - COLUMNS



ELEVATION

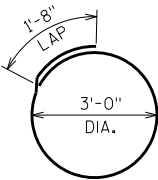
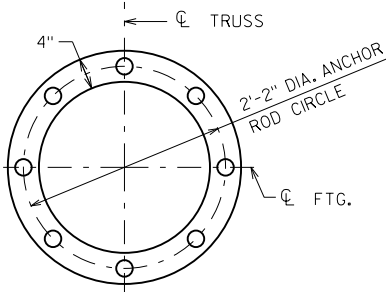
SECTION H-H



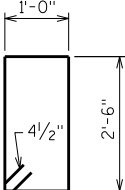
SECTION J-J

SHOWING WING AND CAP STEEL ONLY

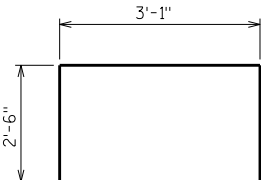
TOP TEMPLATE AND BOTTOM ANCHOR PLATE



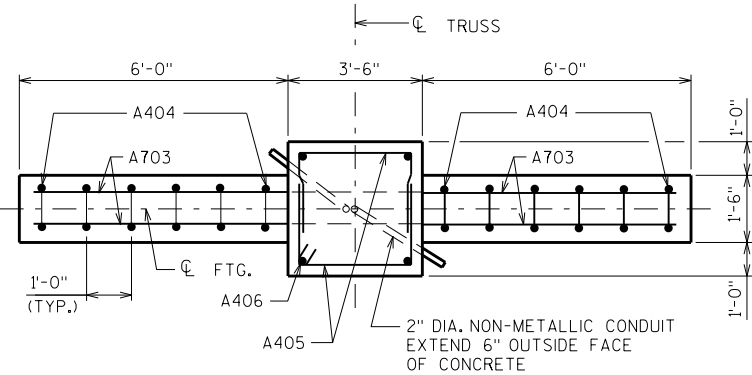
A402



A404



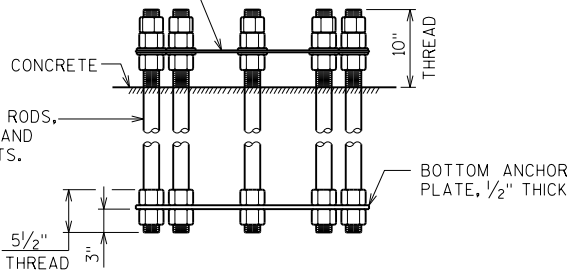
A405



PLAN

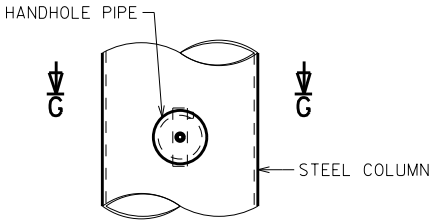
TOP TEMPLATE, 1/4" THICK, REMOVE AFTER CONCRETE SET.

8 - 2" DIA. X 4'-8" ANCHOR RODS, ASTM F1554, TOP: 3 NUTS AND 2 WASHERS, BOTTOM: 2 NUTS.



ANCHOR ROD ASSEMBLY DETAILS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE S-37-159			
DRAWN BY JJS		PLANS CK'D. SAD	
CANTILEVER TRUSS FOOTING		SHEET 4	
		160	

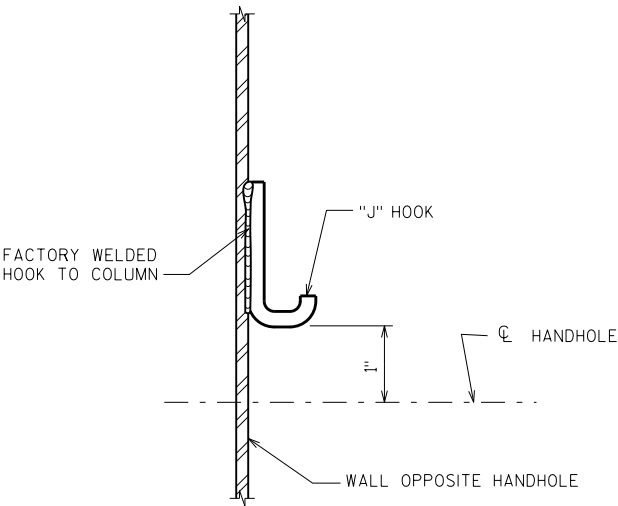


HANDHOLE DETAILS

HANDHOLE NOTES

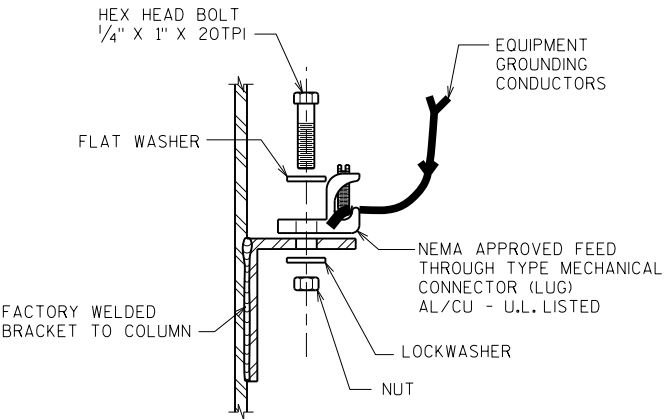
HANDHOLES SHALL BE LOCATED IN ONE COLUMN OF THE SIGN BRIDGE STRUCTURE IF ELECTRICALLY OPERATED DEVICES ARE INSTALLED ON/IN THE STRUCTURE. COLUMNS WITH HANDHOLES SHALL BE NEAR THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE WITH THE REGION TRAFFIC ENGINEER PRIOR TO FABRICATION OF THE SIGN BRIDGE COLUMNS AND MEMBERS. CONDUIT (AS REQ'D.) SHALL BE LOCATED, PLACED AND SIZED AS SHOWN ON THE ELECTRICAL DETAIL PLAN SHEETS.

UNLESS NOTED OTHERWISE, ALL HANDHOLE ELEMENTS TO BE GALVANIZED PER SECTION 641 OF THE WISDOT STANDARAD SPECIFICATIONS.



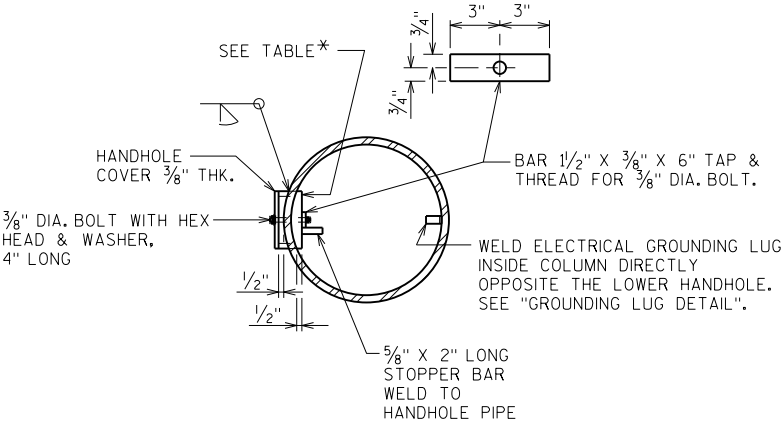
TYPICAL "J" HOOK LOCATION

THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF ALL COLUMNS CONTAINING ELECTRICAL WIRING. THE "J" HOOK SHALL BE ATTACHED ABOVE THE CENTERLINE OF THE UPPER HANDHOLE AND MOUNTED DIRECTLY OPPOSITE THE HANDHOLE AS SHOWN IN THE DRAWING.



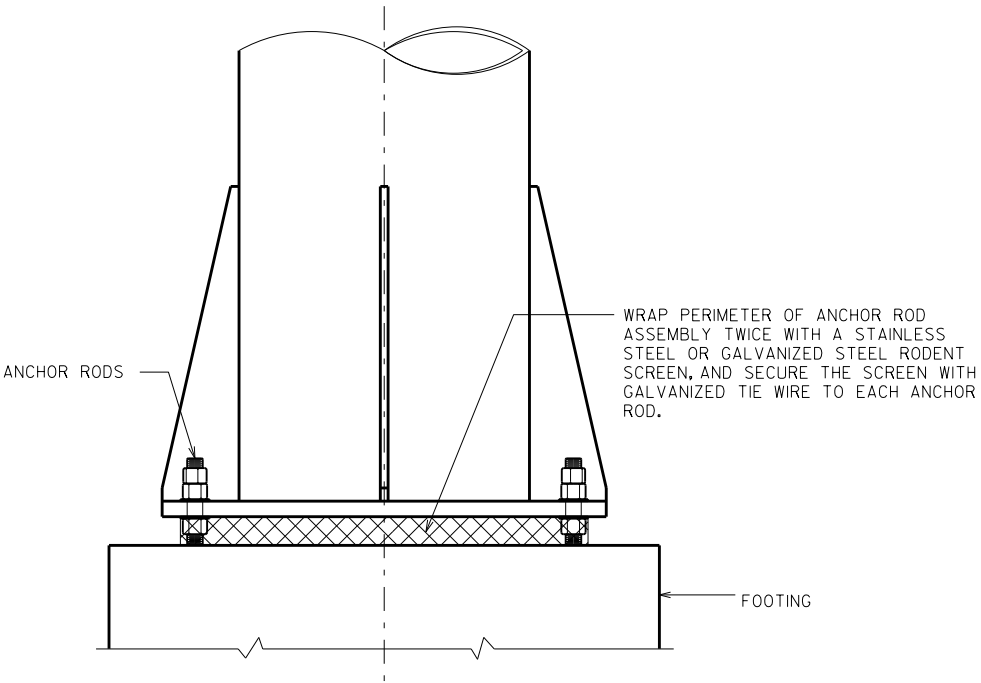
GROUNDING LUG DETAIL

STAINLESS STEEL BOLTS, NUT AND WASHERS



SECTION G-G

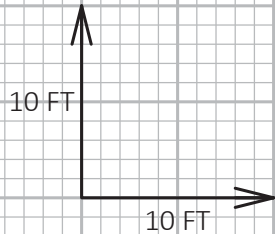
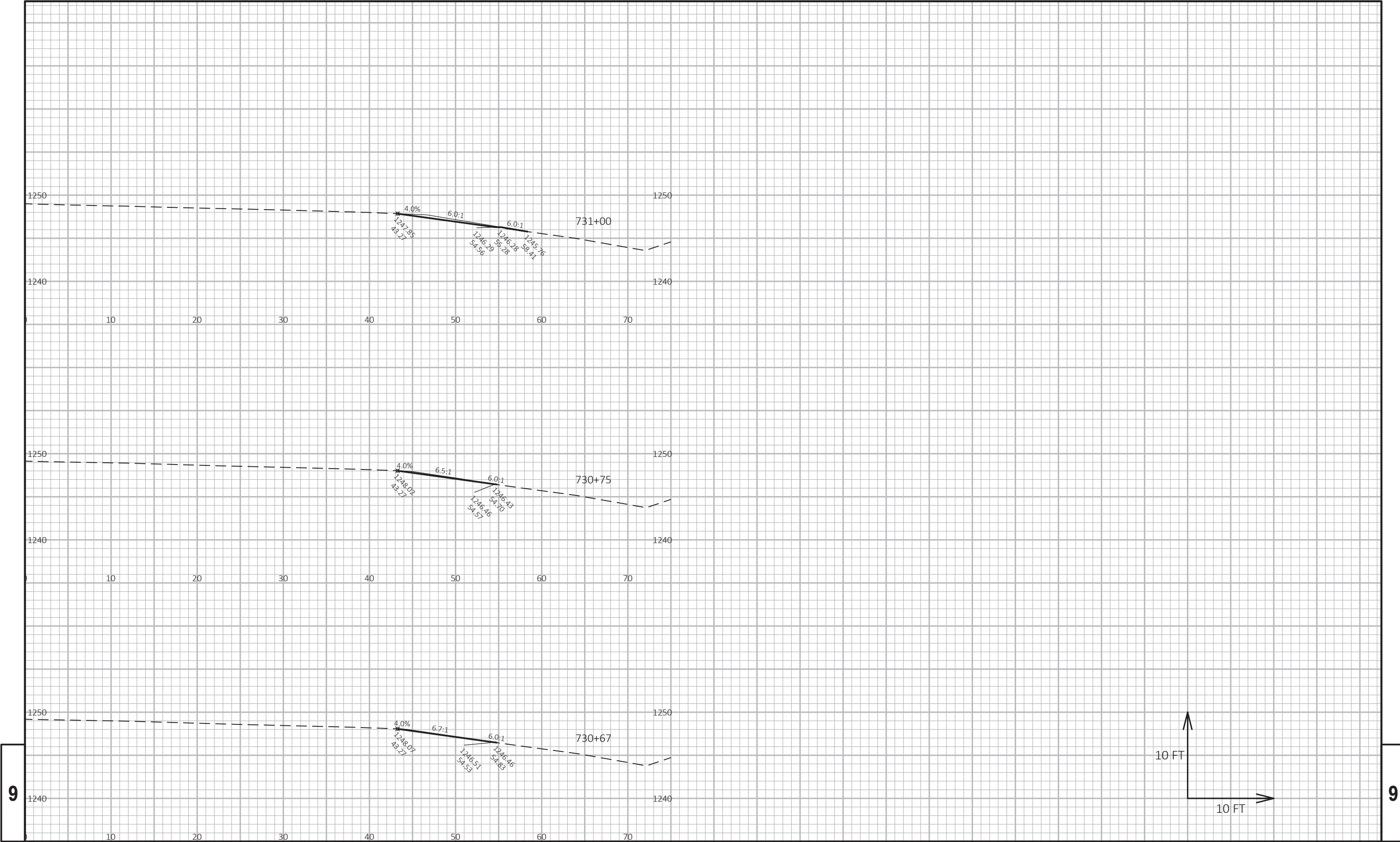
* COLUMN SIZE O.D. X THK.	HANDHOLE PIPE O.D. X MIN. THK.
UP TO AND INCLD. 16" X 0.375"	5.562" X 0.500"
GREATER THAN 16" X 0.375" TO AND INCLD. 24" X 0.562"	6.625" X 0.562"



RODENT SCREEN

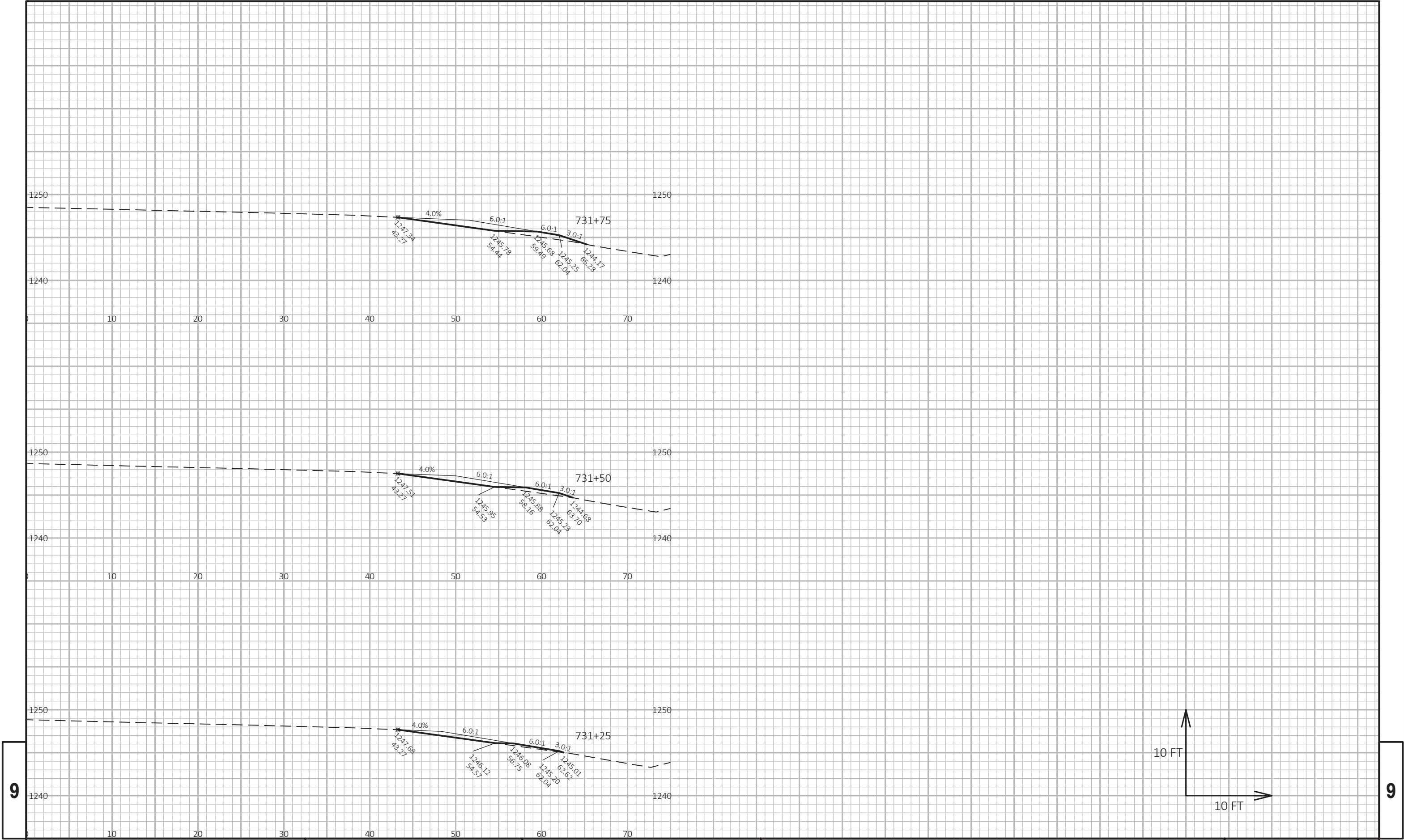
(REQ'D. ONLY WHEN ELECTRICAL DEVICES ARE INSTALLED)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE S-37-159			
DRAWN BY JJS		PLANS CK'D. SAD	
HANDHOLE DETAILS		SHEET 5	
		161	



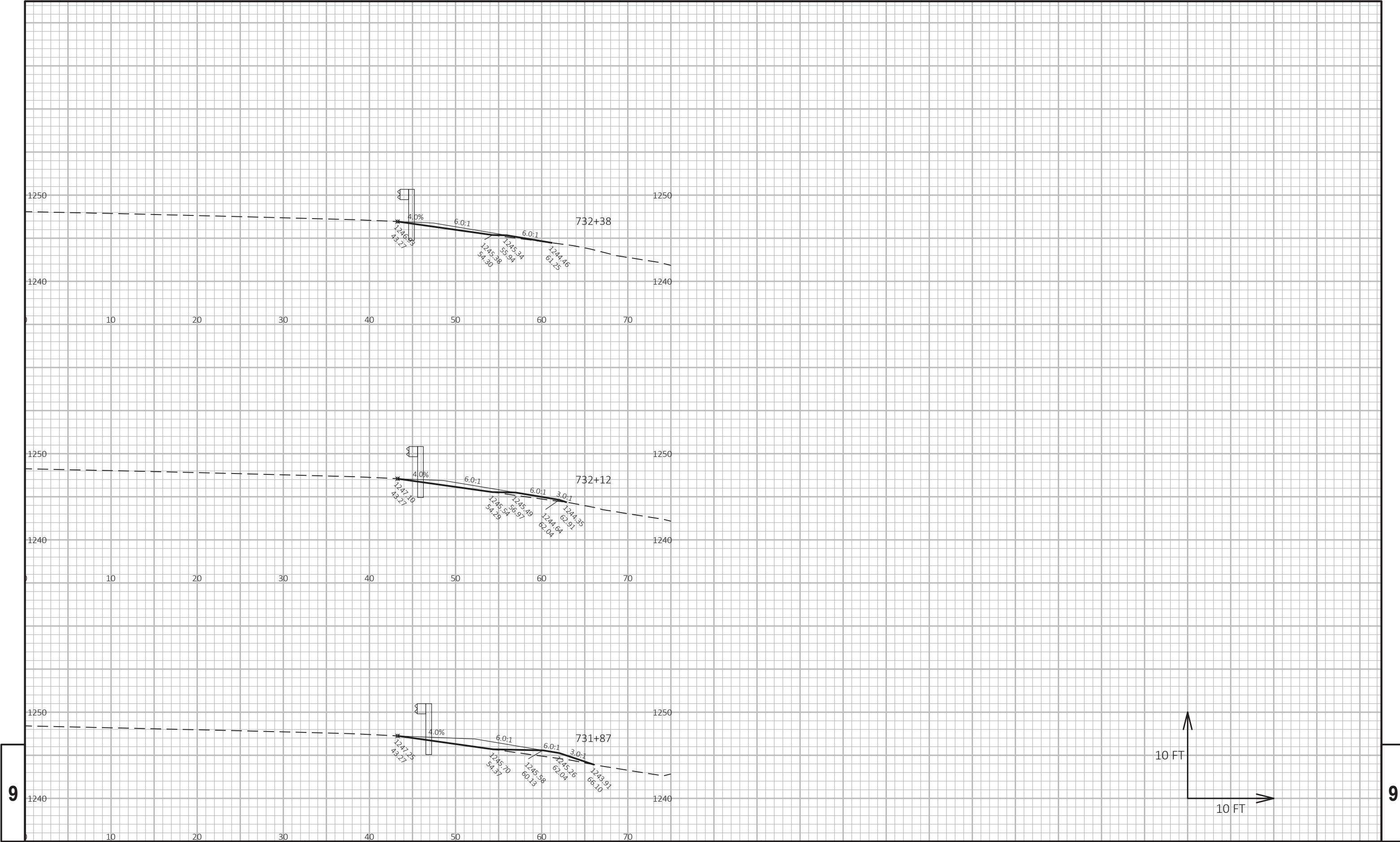
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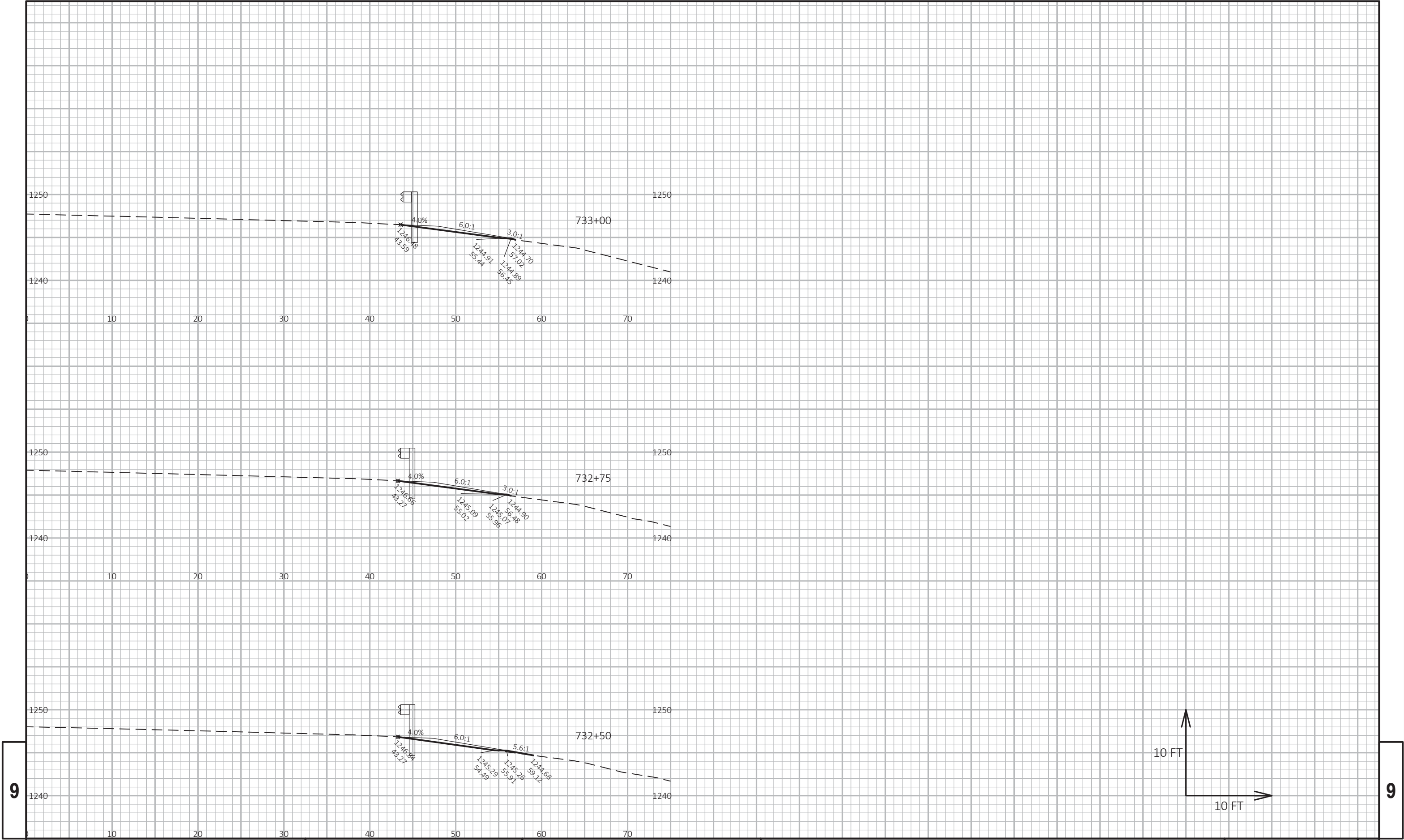
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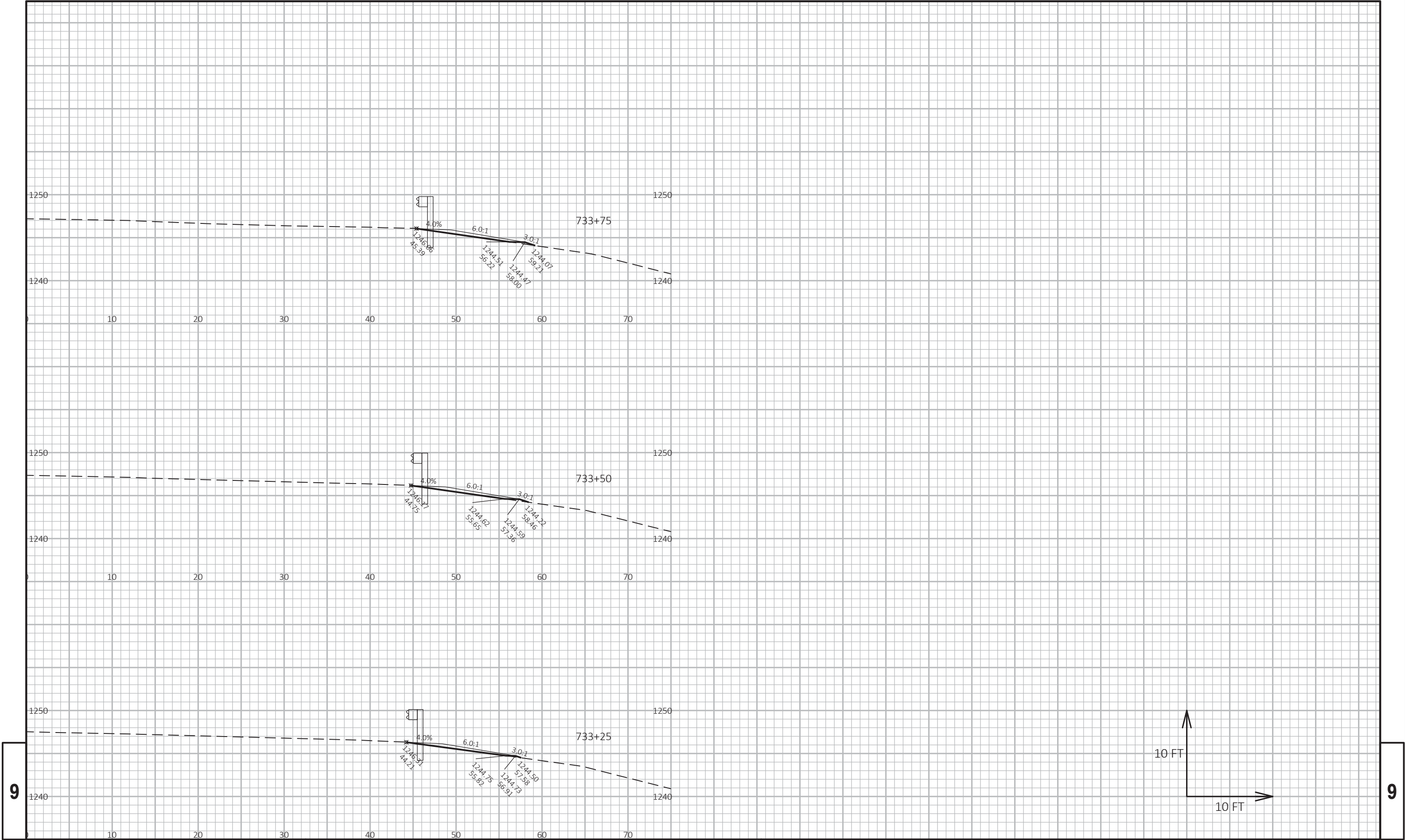
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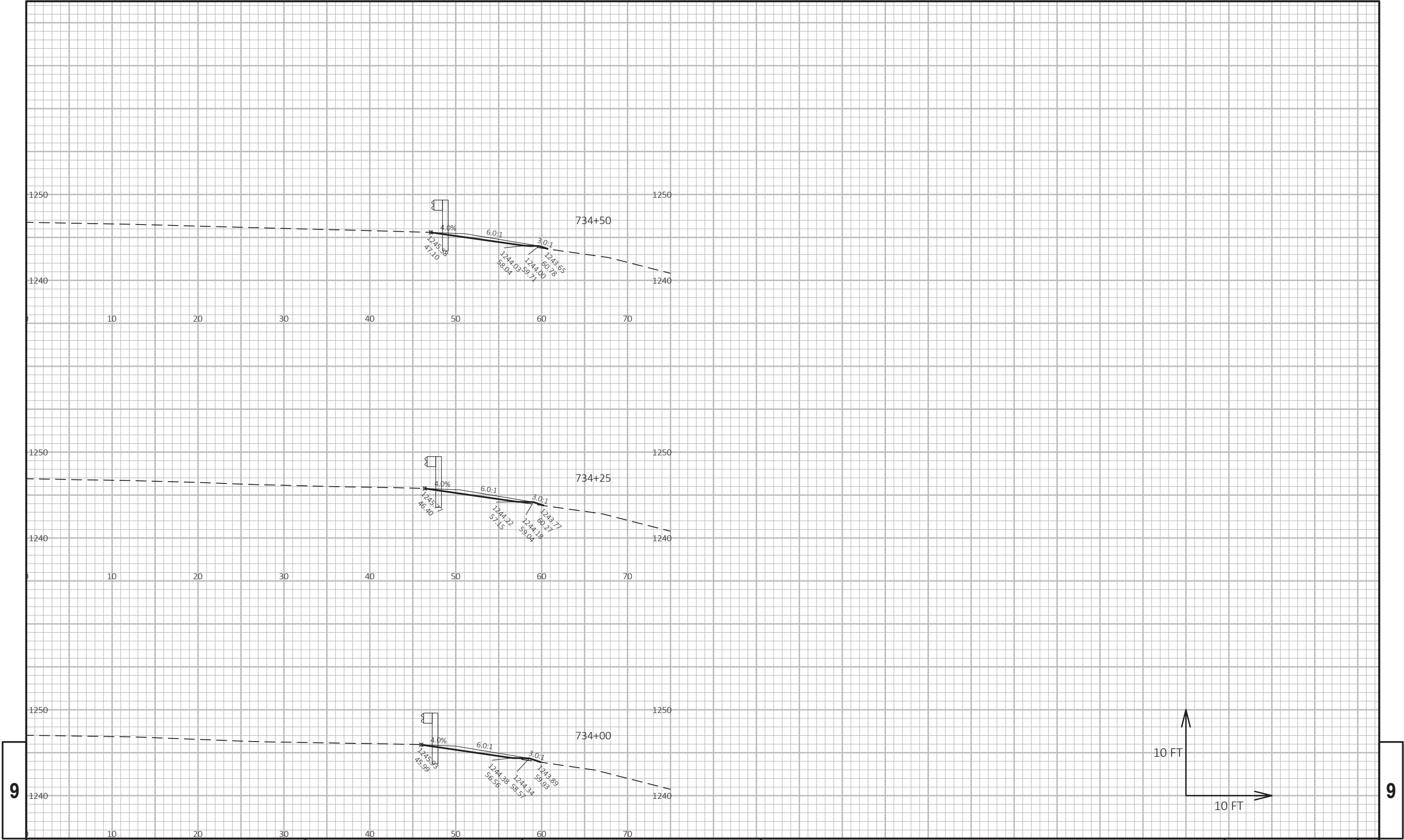
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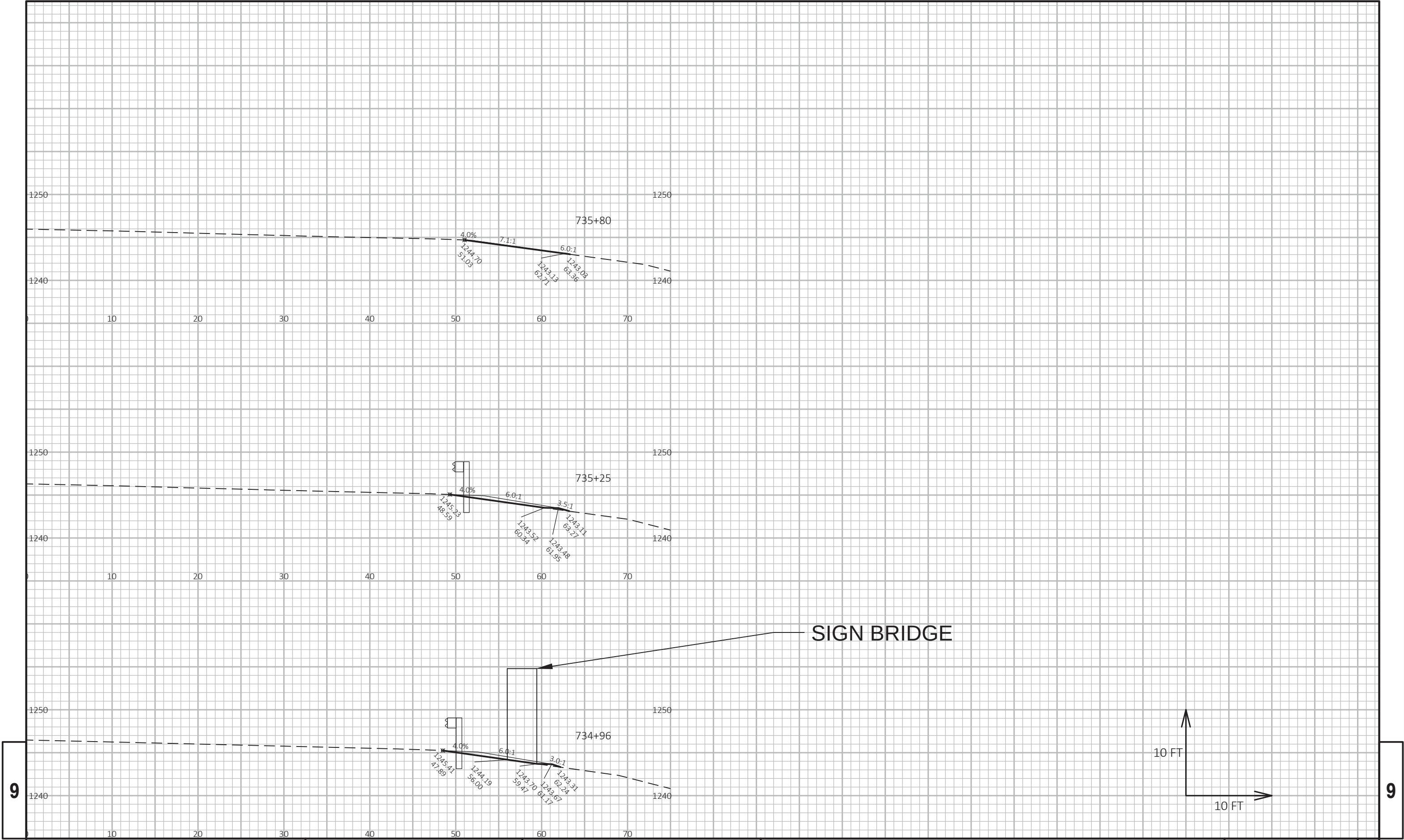
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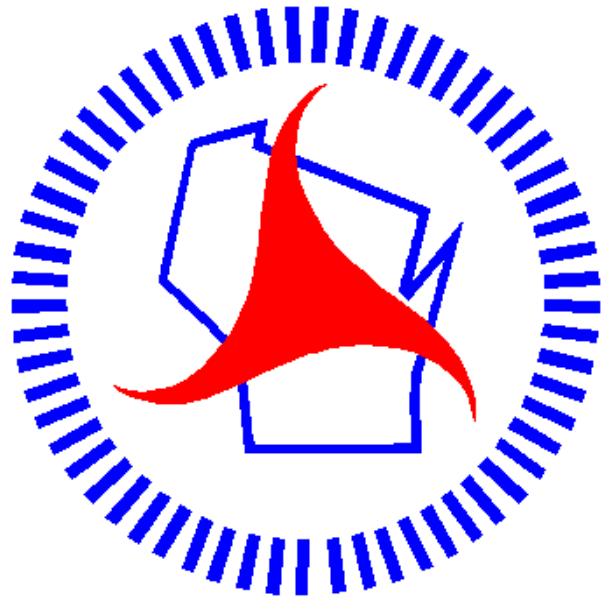
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Notes



Wisconsin Department of Transportation

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