

MAD
PROJECT ID: 1000-20-84
WITH: N/A

FEBRUARY 2026
ORDER OF SHEETS

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

TOTAL SHEETS = 142

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

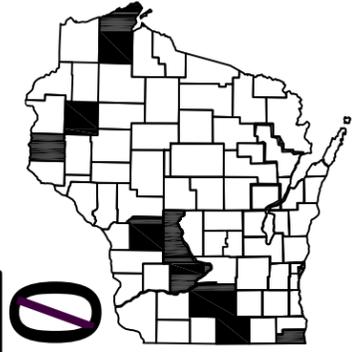
STATEWIDE TYPE I SIGN REPLACEMENT

LOCATION ON STN PER ANNUAL PLAN

VAR HWY STATEWIDE

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1000-20-84		

STATE PROJECT NUMBER
1000-20-84



01

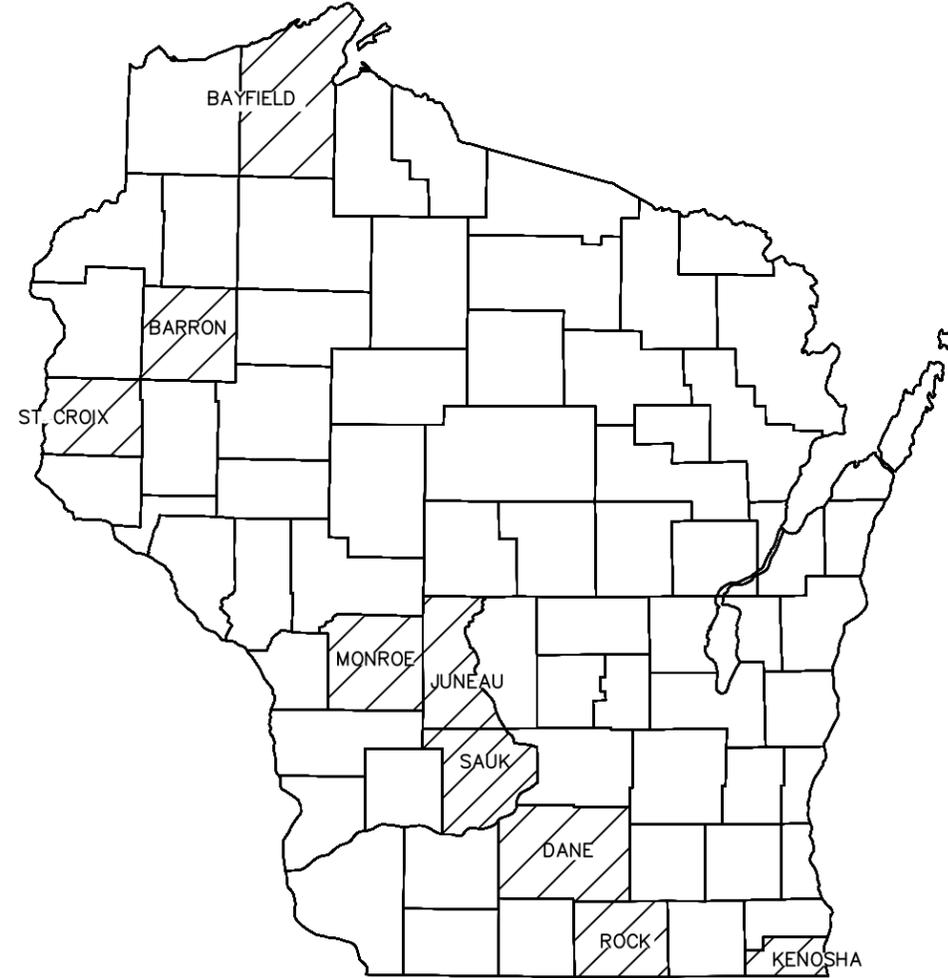
DESIGN DESIGNATION

- 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



LAYOUT
SCALE 0

TOTAL NET LENGTH OF CENTERLINE =

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

**STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION**

PREPARED BY

Surveyor	_____ SURVEYOR
Designer	_____ JEANNIE SILVER
Project Manager	_____ RYAN MAYER
Regional Examiner	_____
Regional Supervisor	_____ MATT RAUCH

APPROVED FOR THE DEPARTMENT

DATE: 11/01/2025 (Signature)

E

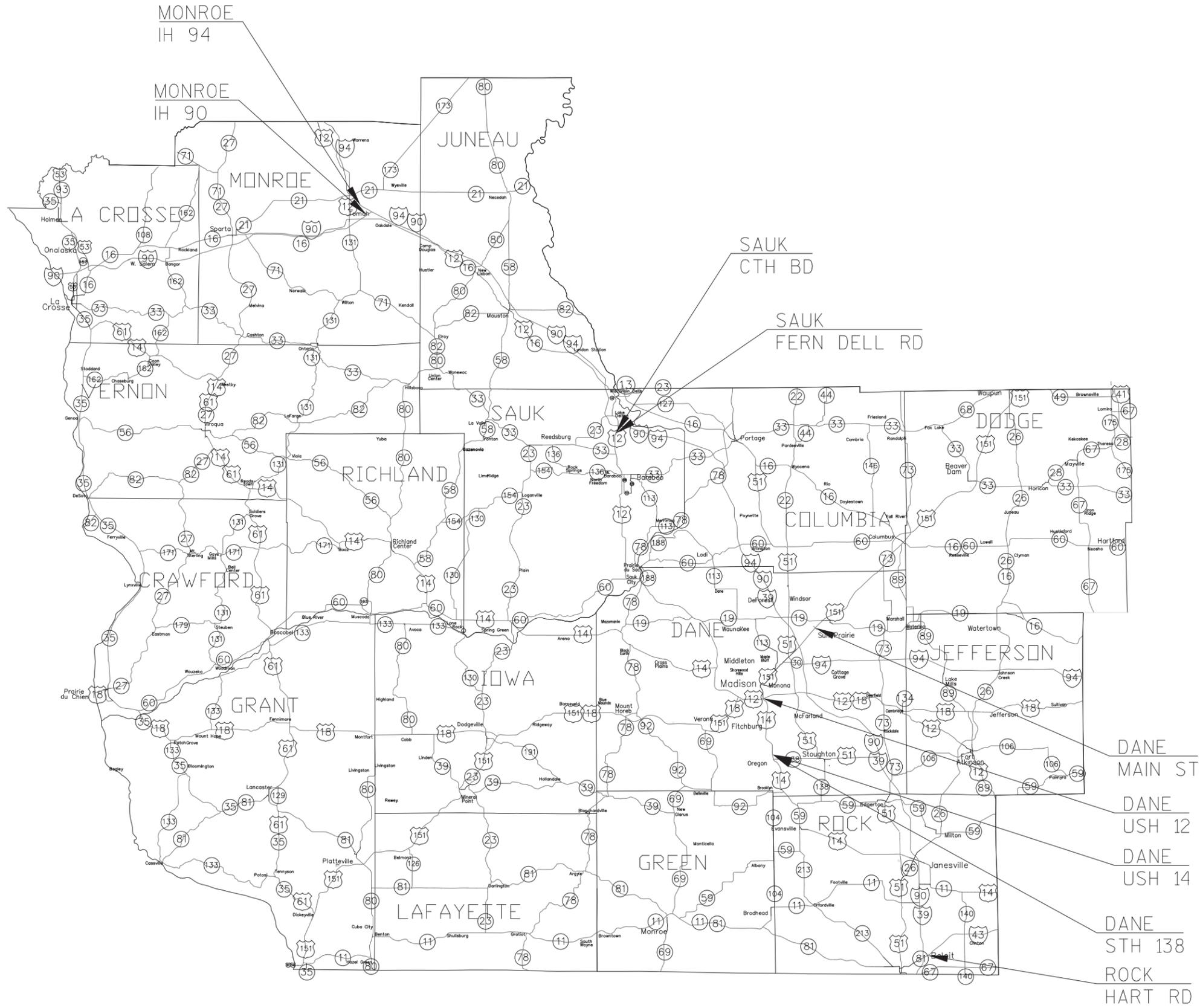
GENERAL NOTES

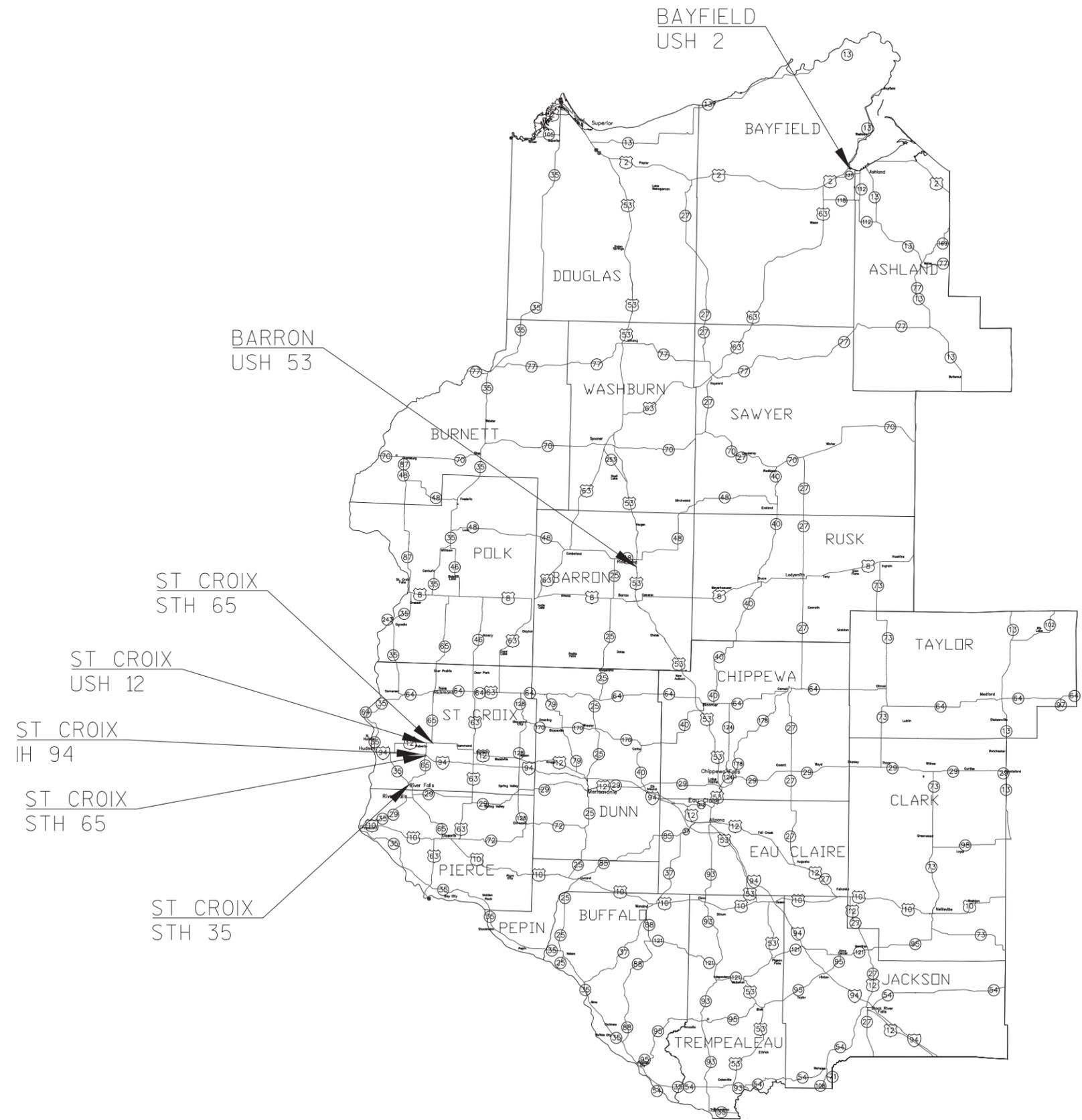
THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.



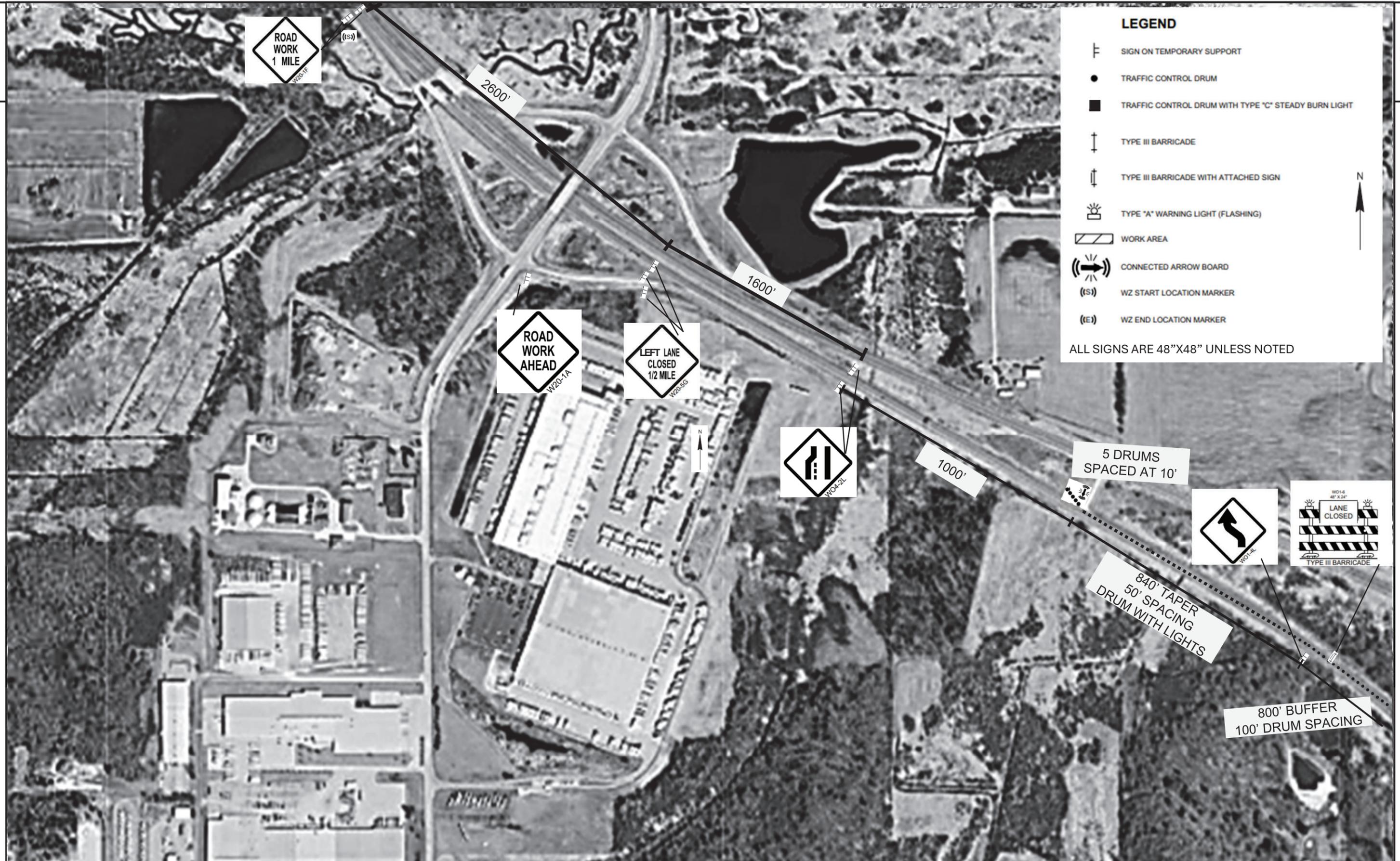
Ryan A. Mayer, P.E.
 State Signing Engineer
 Wisconsin DOT Bureau of Traffic Operations
 Central Office Sign Shop
 3609 Pierstorff St
 Madison, WI 53704
 (608) 246-3810
ryan.mayer@dot.wi.gov

Jeannie Silver, P.E.
 State Marking Engineer
 Wisconsin DOT Bureau of Traffic Operations
 Central Office Sign Shop
 3609 Pierstorff St.
 Madison, WI 53704
 (608) 246-5408
jeannie.silver@dot.wi.gov





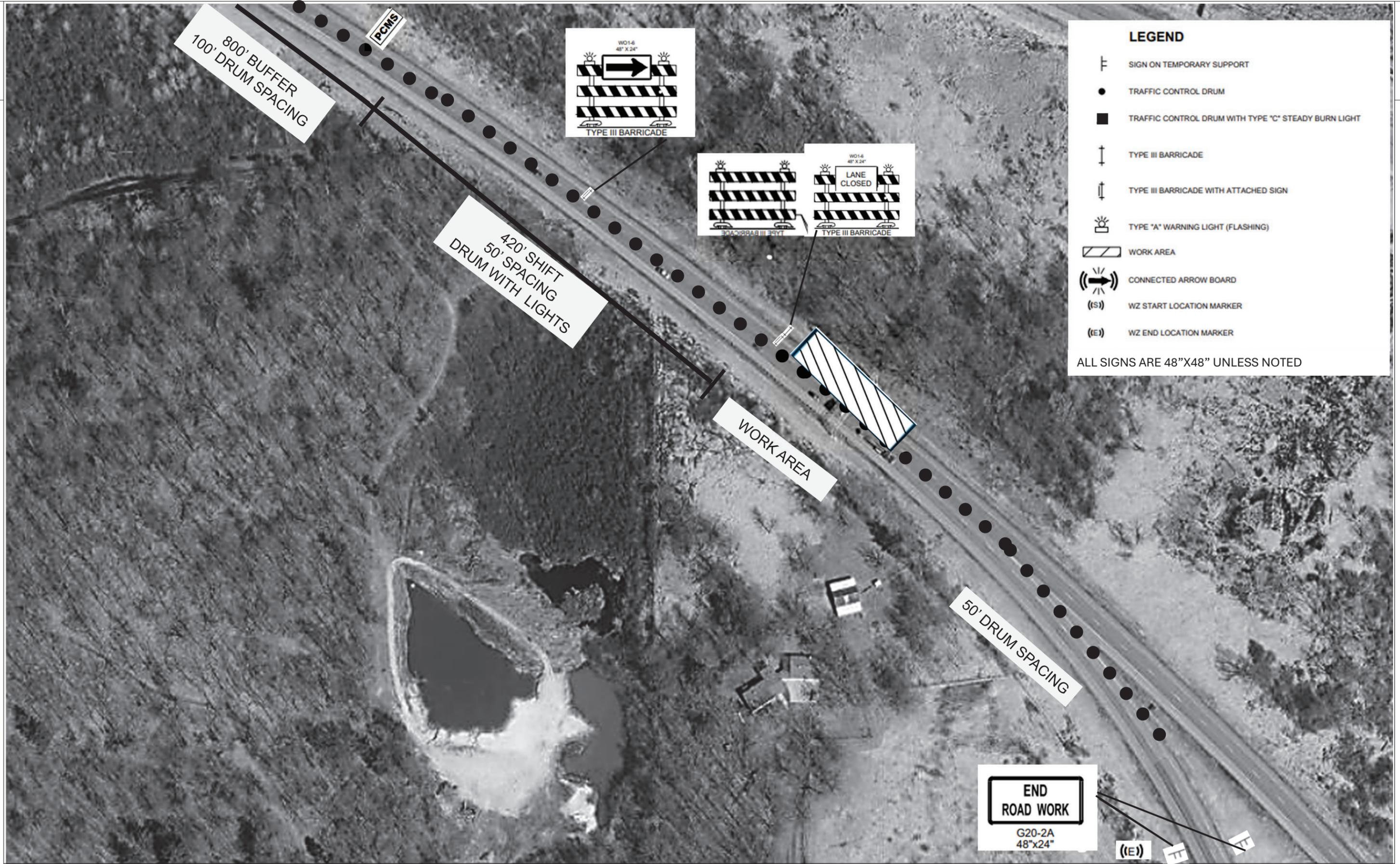
PROJECT NO: 1000-20-82	HWY: VARIOUS	COUNTY: VARIOUS	PROJECT OVERVIEW - NORTHWEST REGION	SHEET
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LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- CONNECTED ARROW BOARD
- WZ START LOCATION MARKER
- WZ END LOCATION MARKER

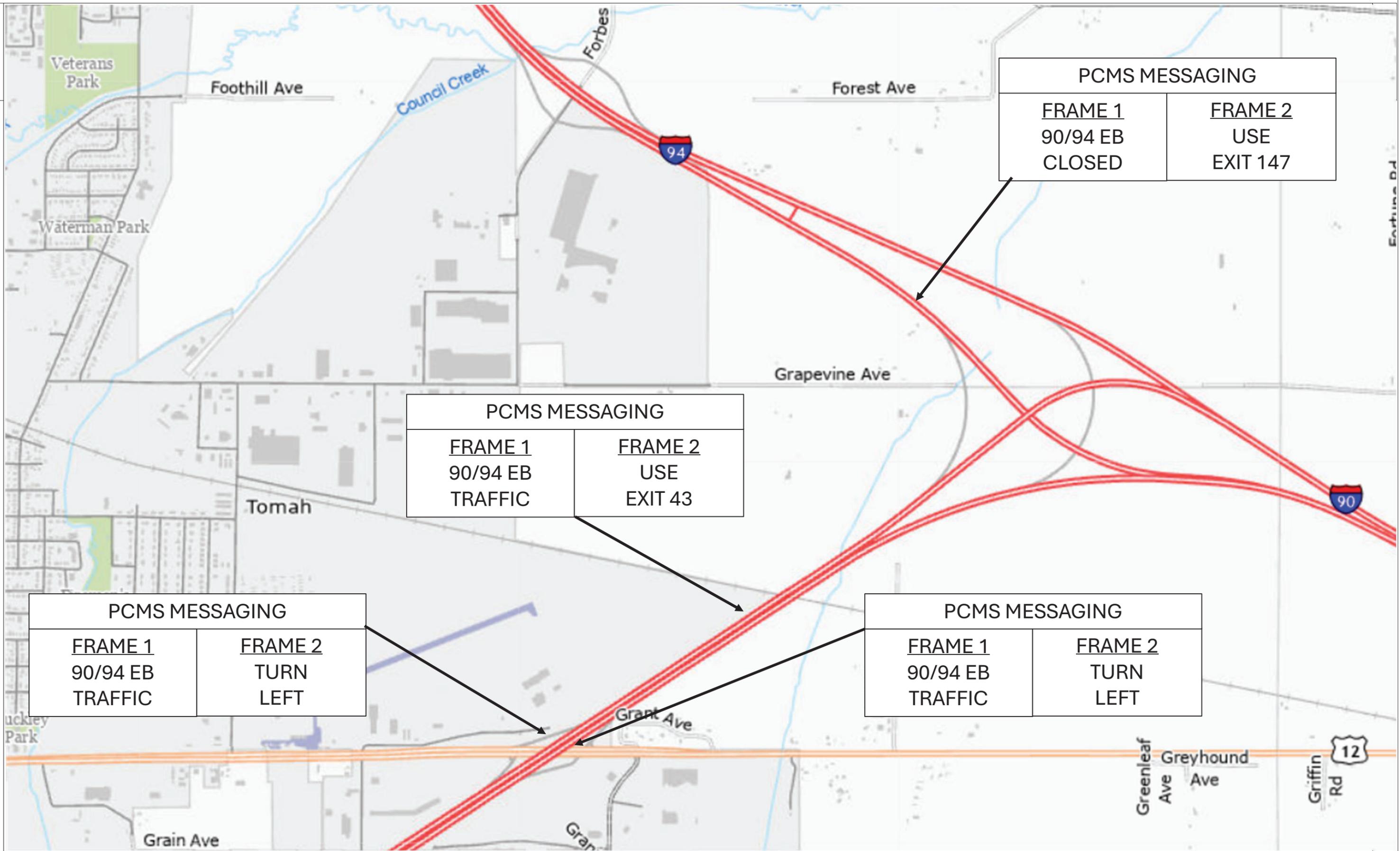
ALL SIGNS ARE 48"X48" UNLESS NOTED



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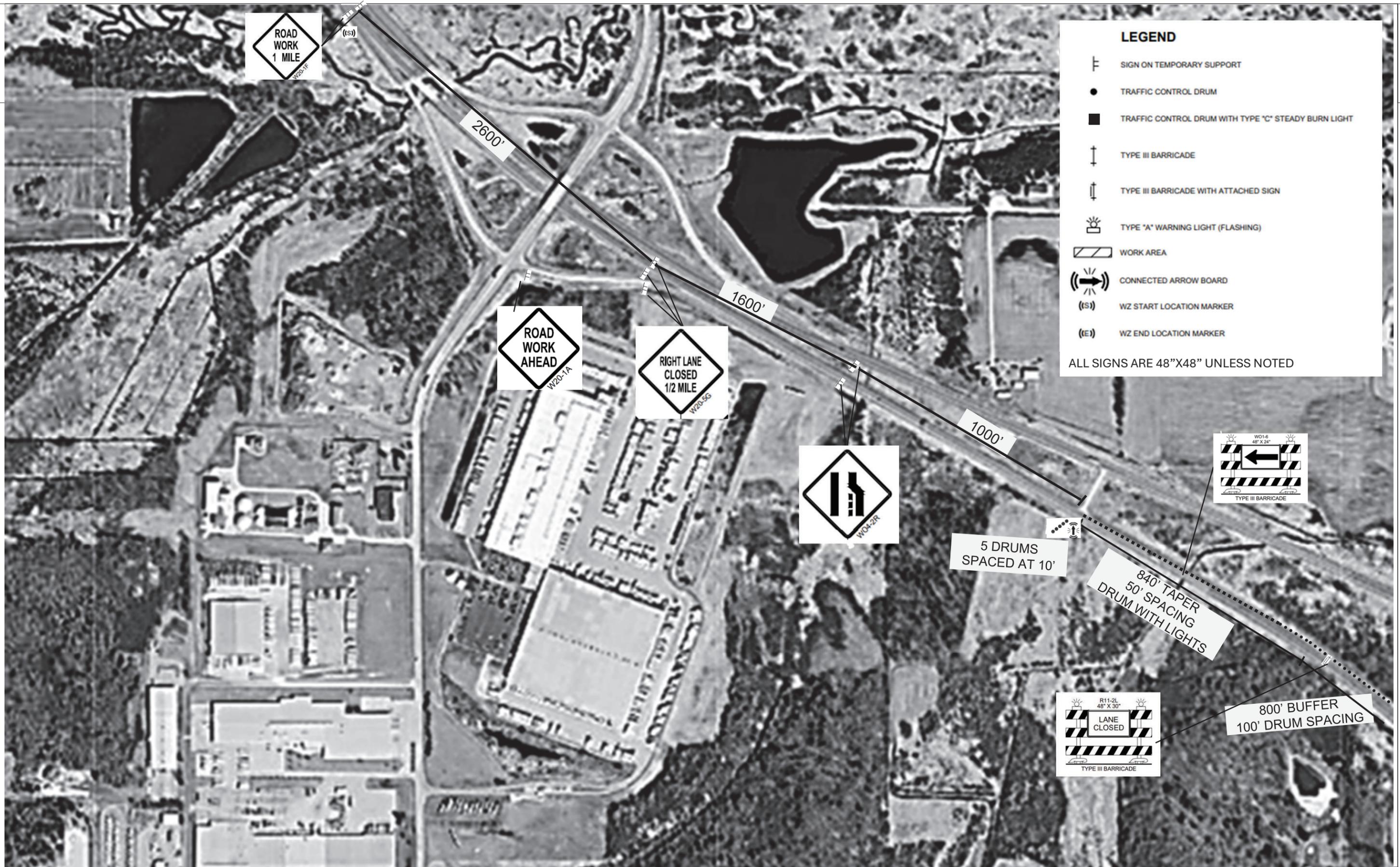


PCMS MESSAGING	
<u>FRAME 1</u> 90/94 EB CLOSED	<u>FRAME 2</u> USE EXIT 147

PCMS MESSAGING	
<u>FRAME 1</u> 90/94 EB TRAFFIC	<u>FRAME 2</u> USE EXIT 43

PCMS MESSAGING	
<u>FRAME 1</u> 90/94 EB TRAFFIC	<u>FRAME 2</u> TURN LEFT

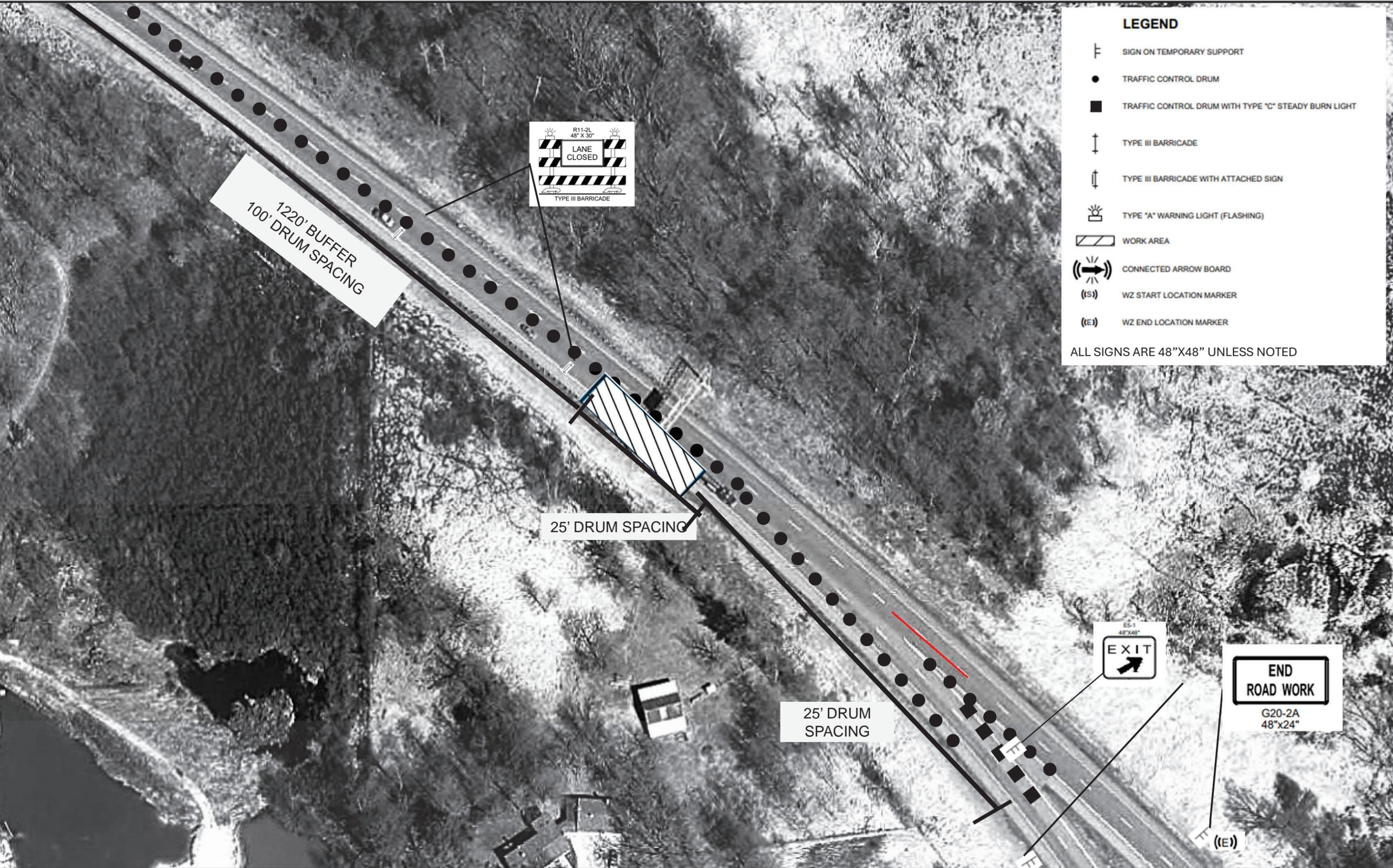
PCMS MESSAGING	
<u>FRAME 1</u> 90/94 EB TRAFFIC	<u>FRAME 2</u> TURN LEFT



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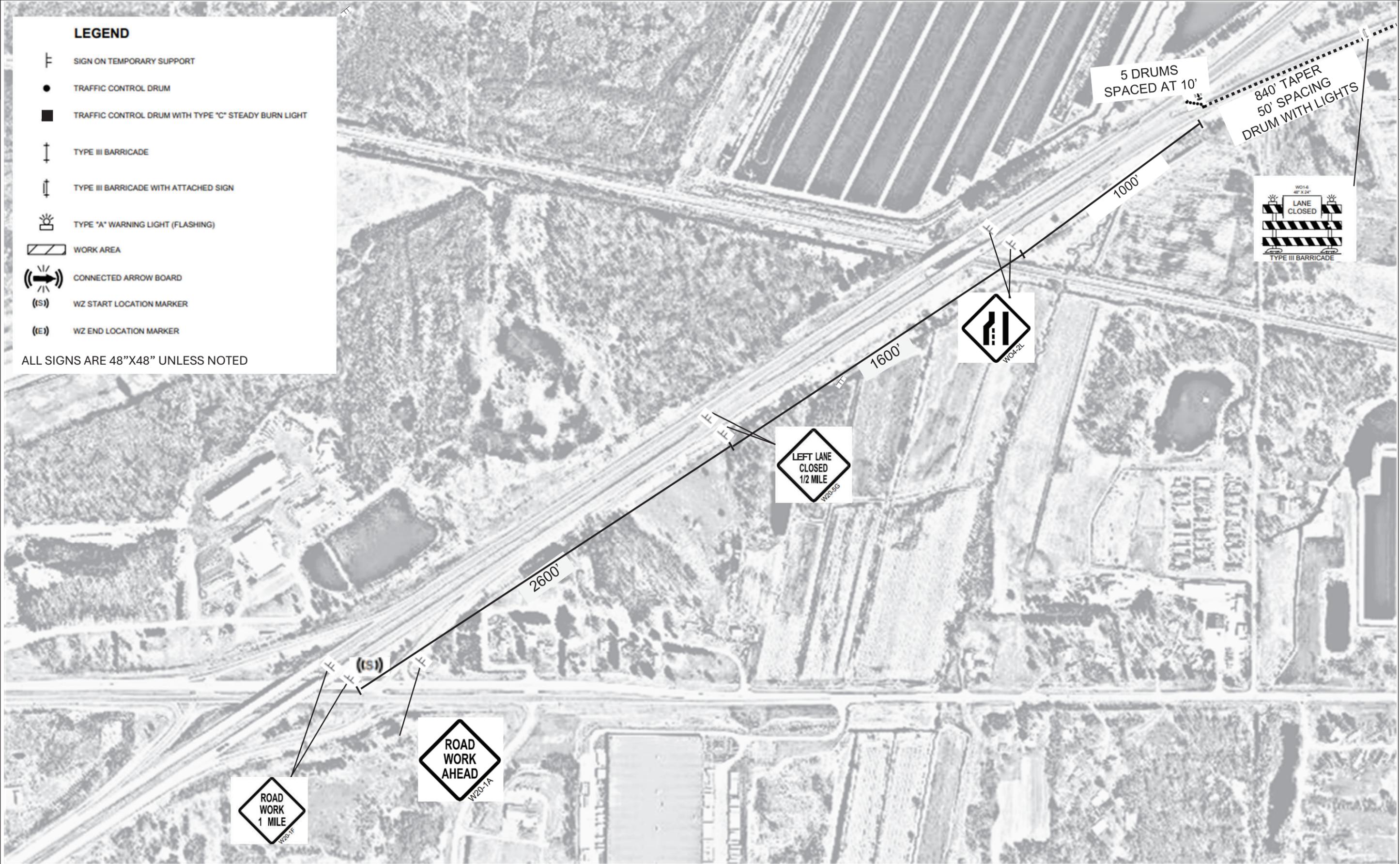
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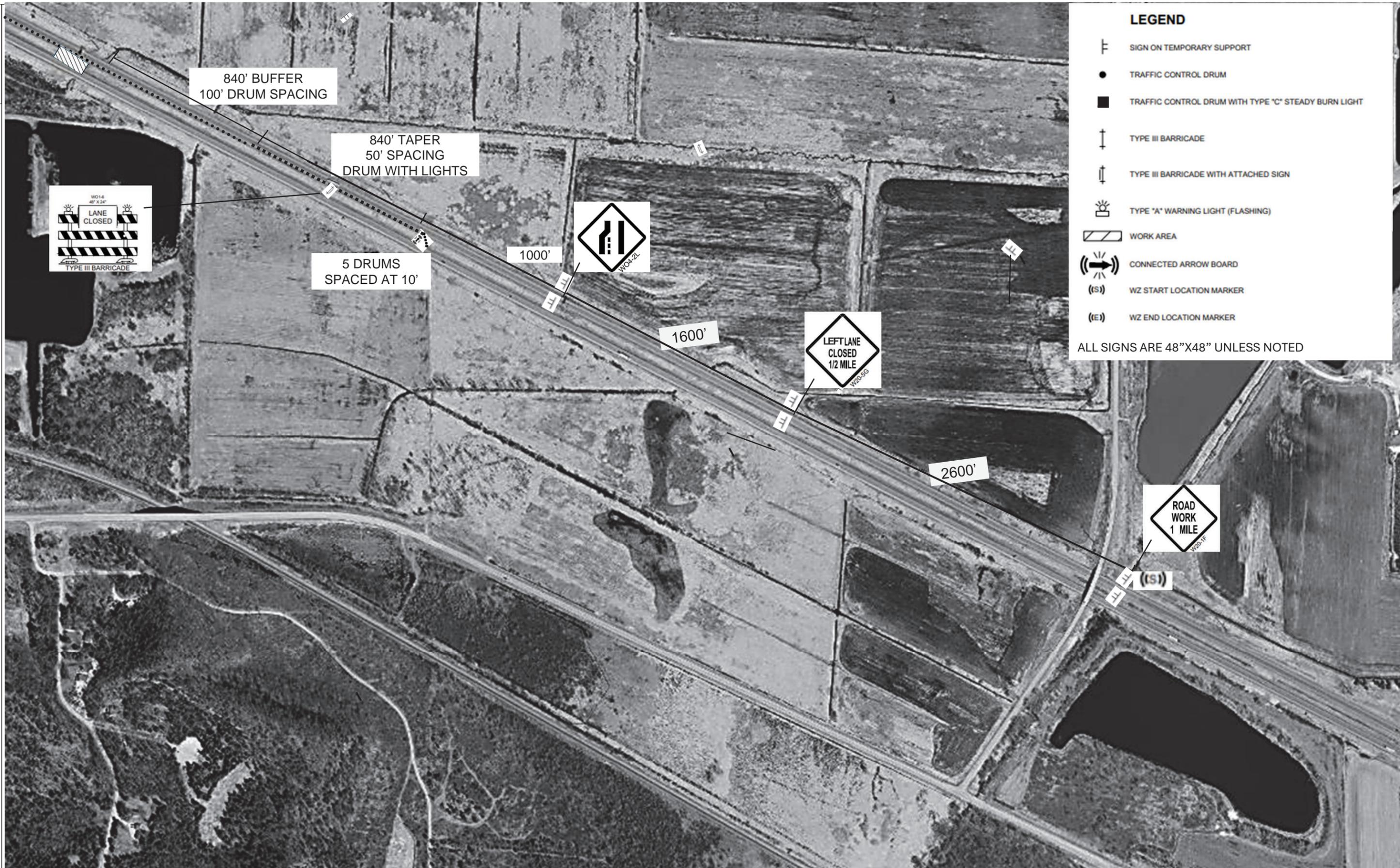


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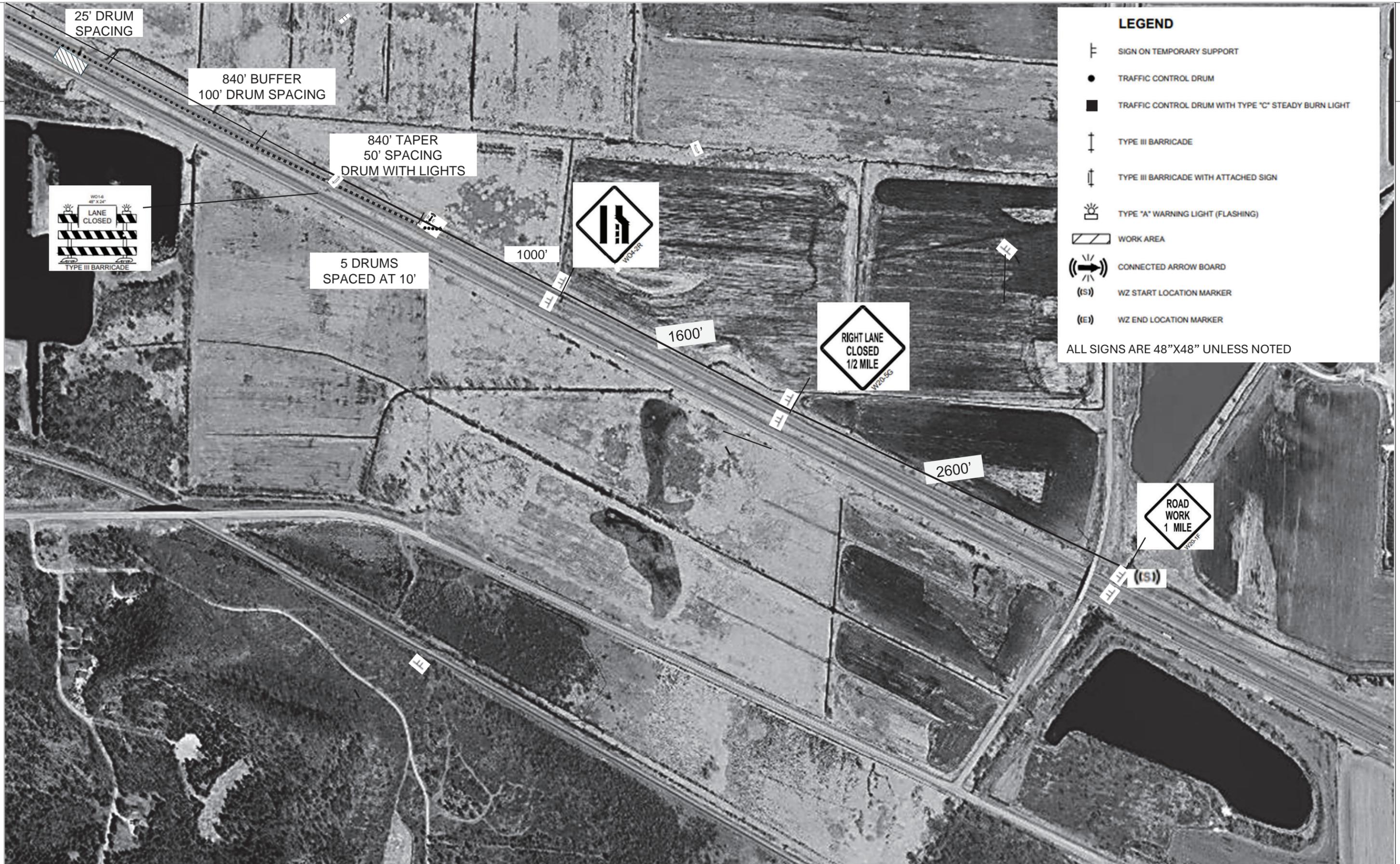




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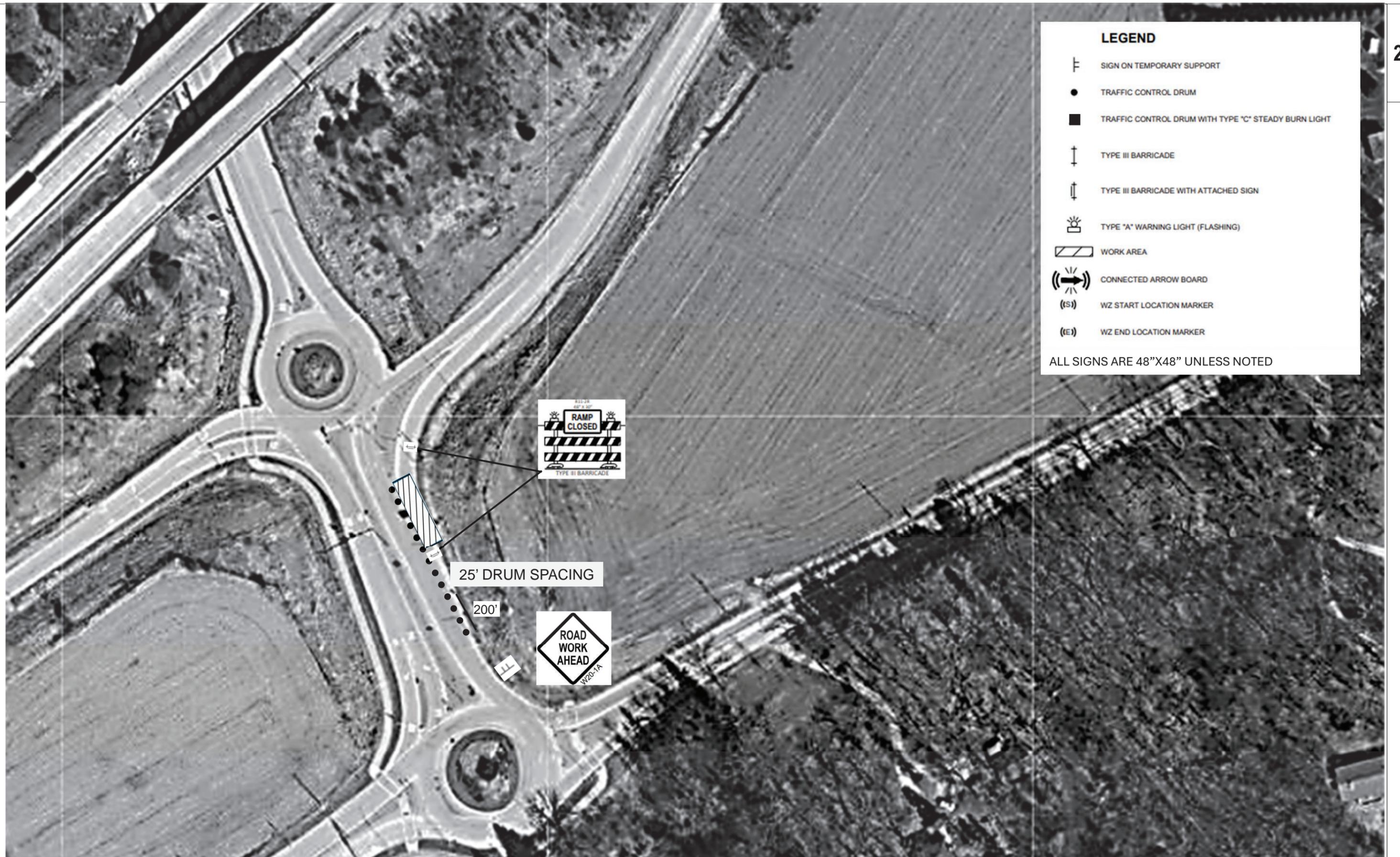


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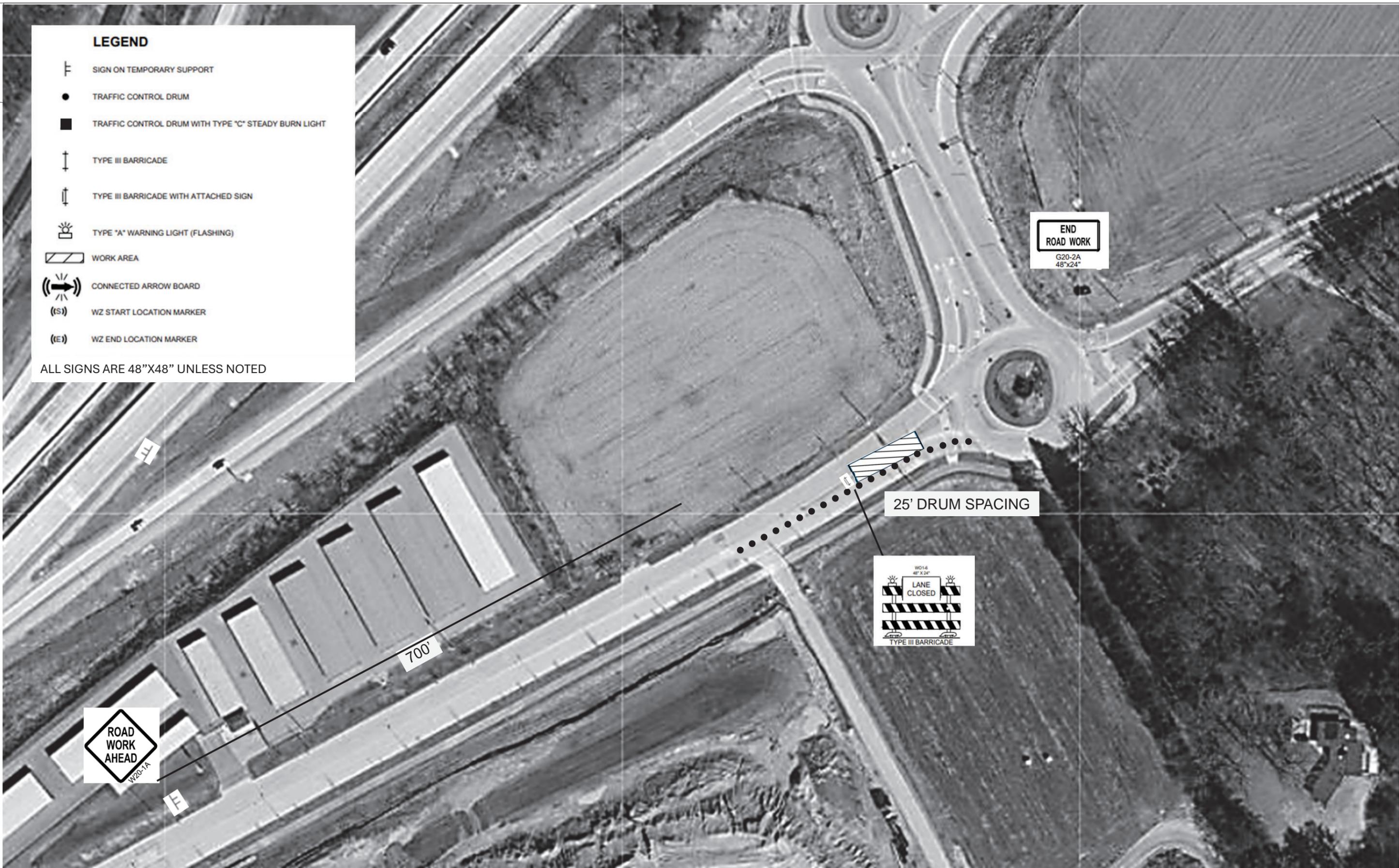




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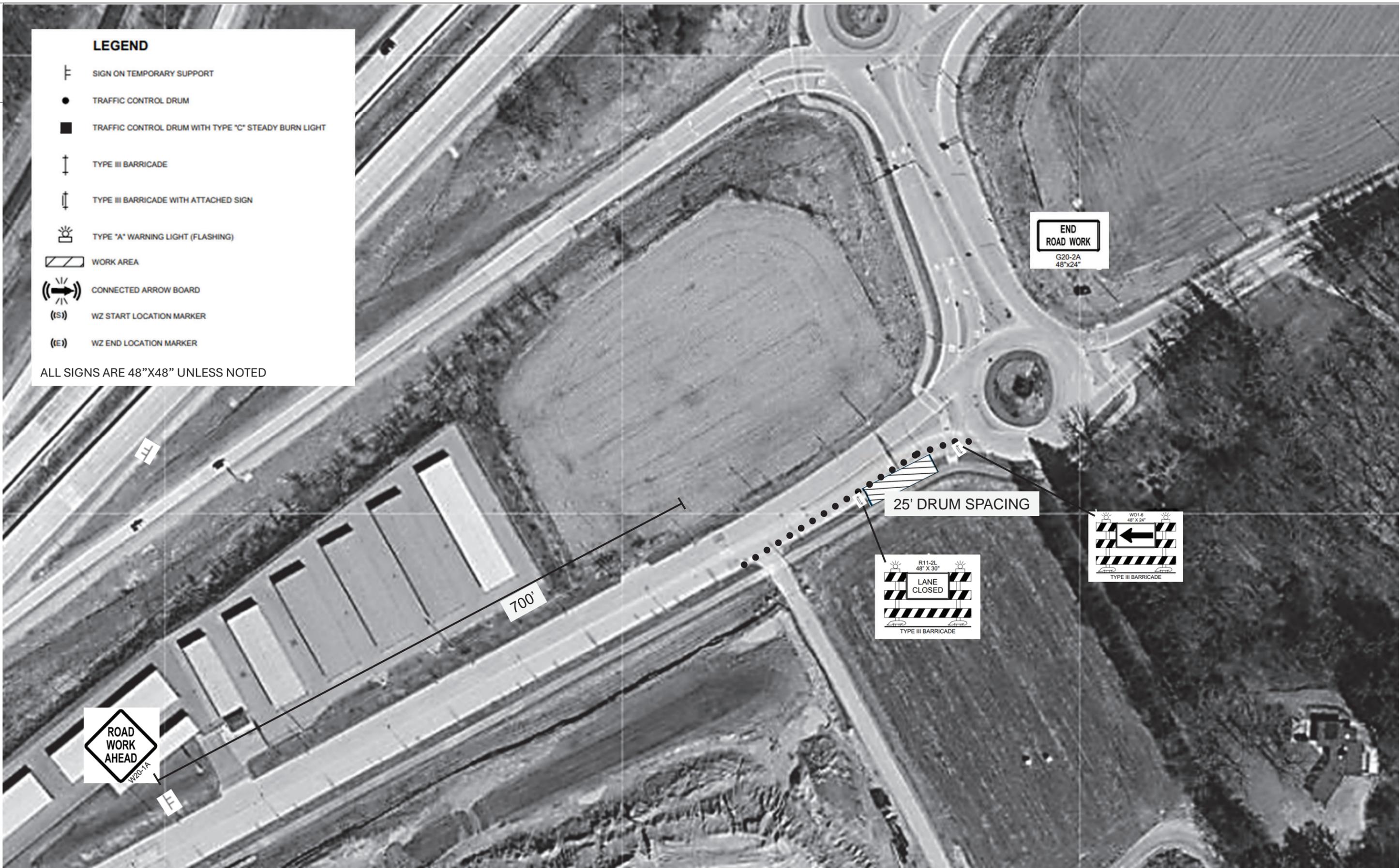
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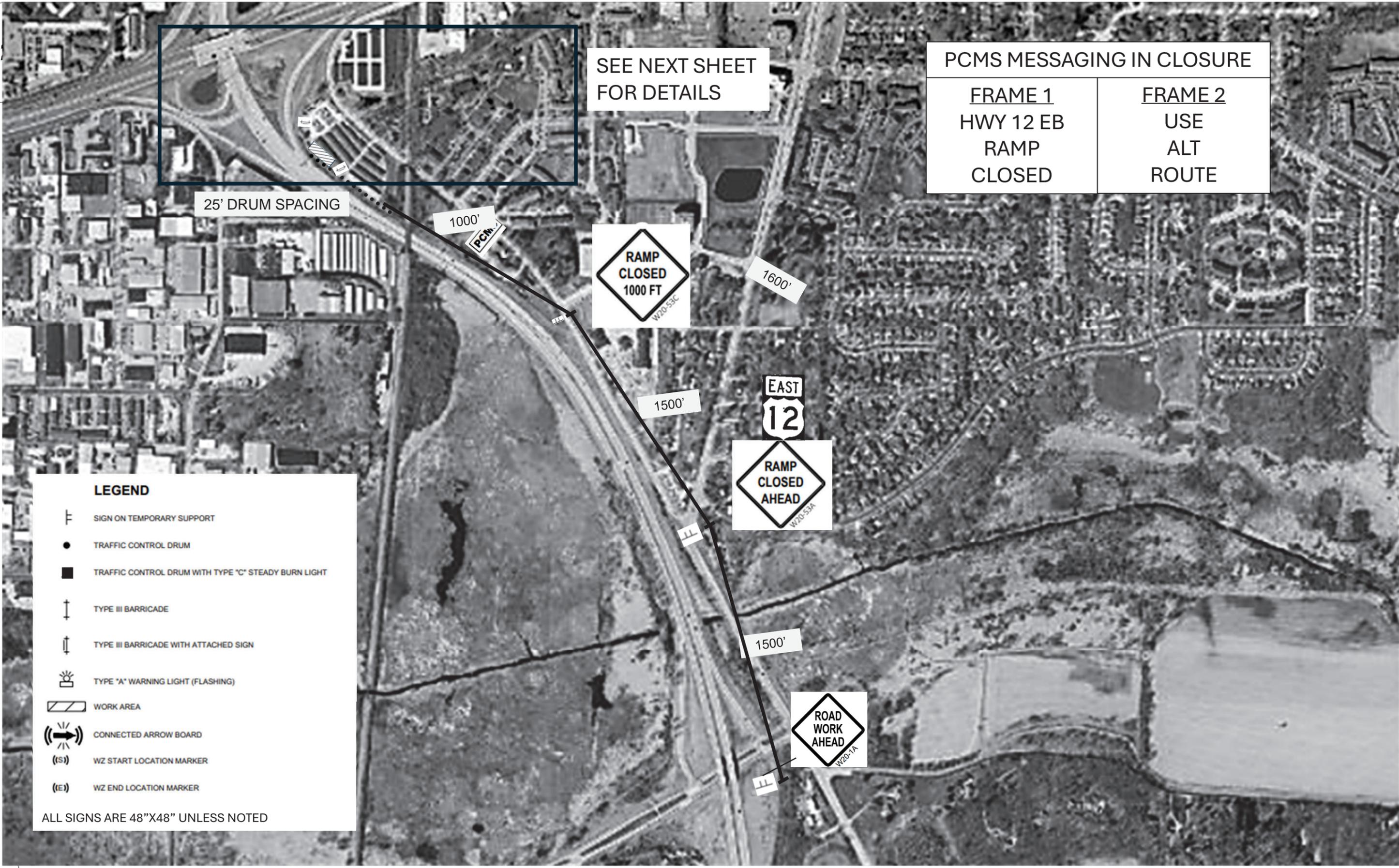


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PCMS MESSAGING IN CLOSURE	
<u>FRAME 1</u>	<u>FRAME 2</u>
HWY 12 EB	USE
RAMP	ALT
CLOSED	ROUTE

SEE NEXT SHEET FOR DETAILS

25' DRUM SPACING

1000'

1600'

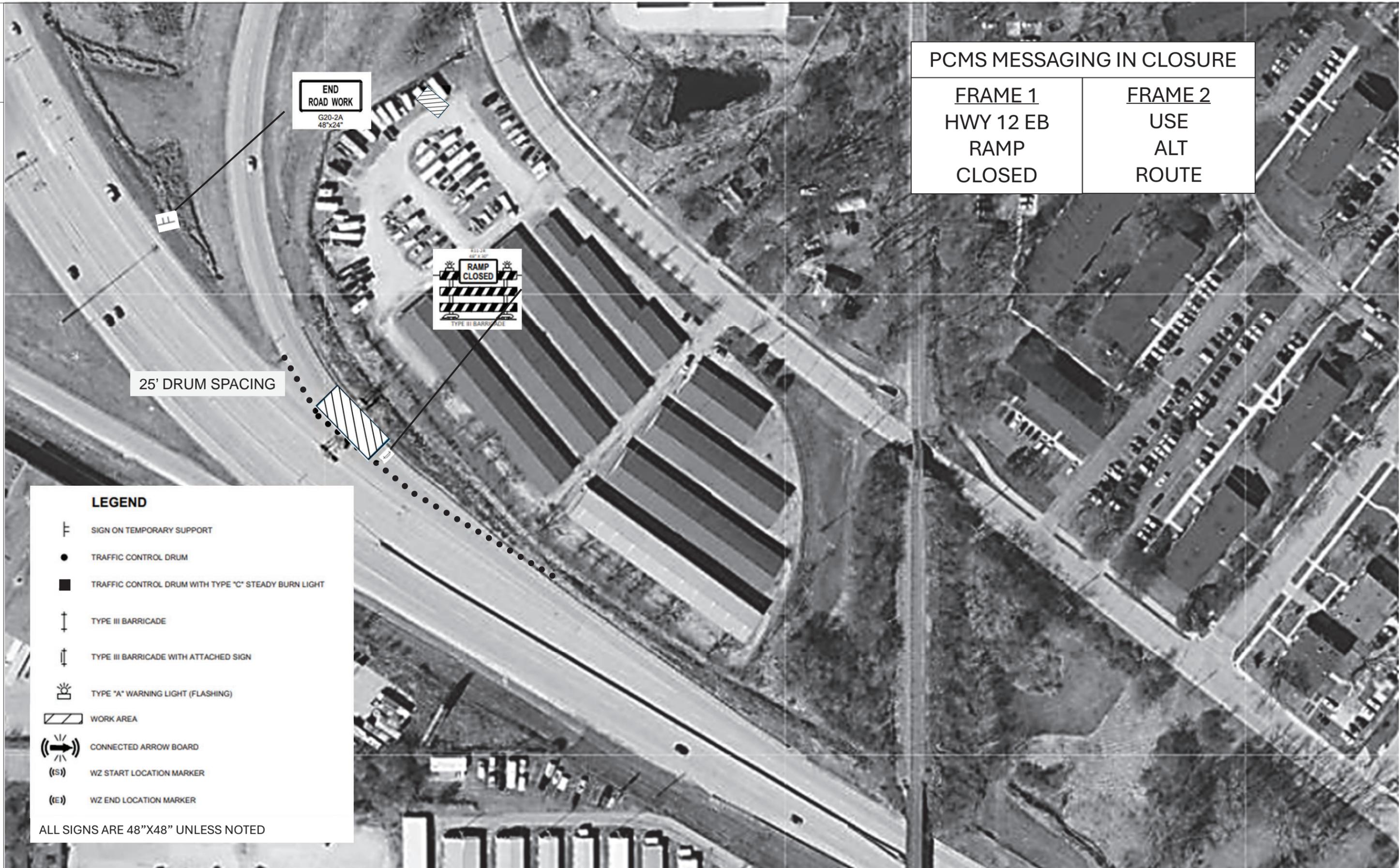
1500'

1500'

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PCMS MESSAGING IN CLOSURE	
<u>FRAME 1</u>	<u>FRAME 2</u>
HWY 12 EB	USE
RAMP	ALT
CLOSED	ROUTE

END ROAD WORK
G20-2A
48"x24"

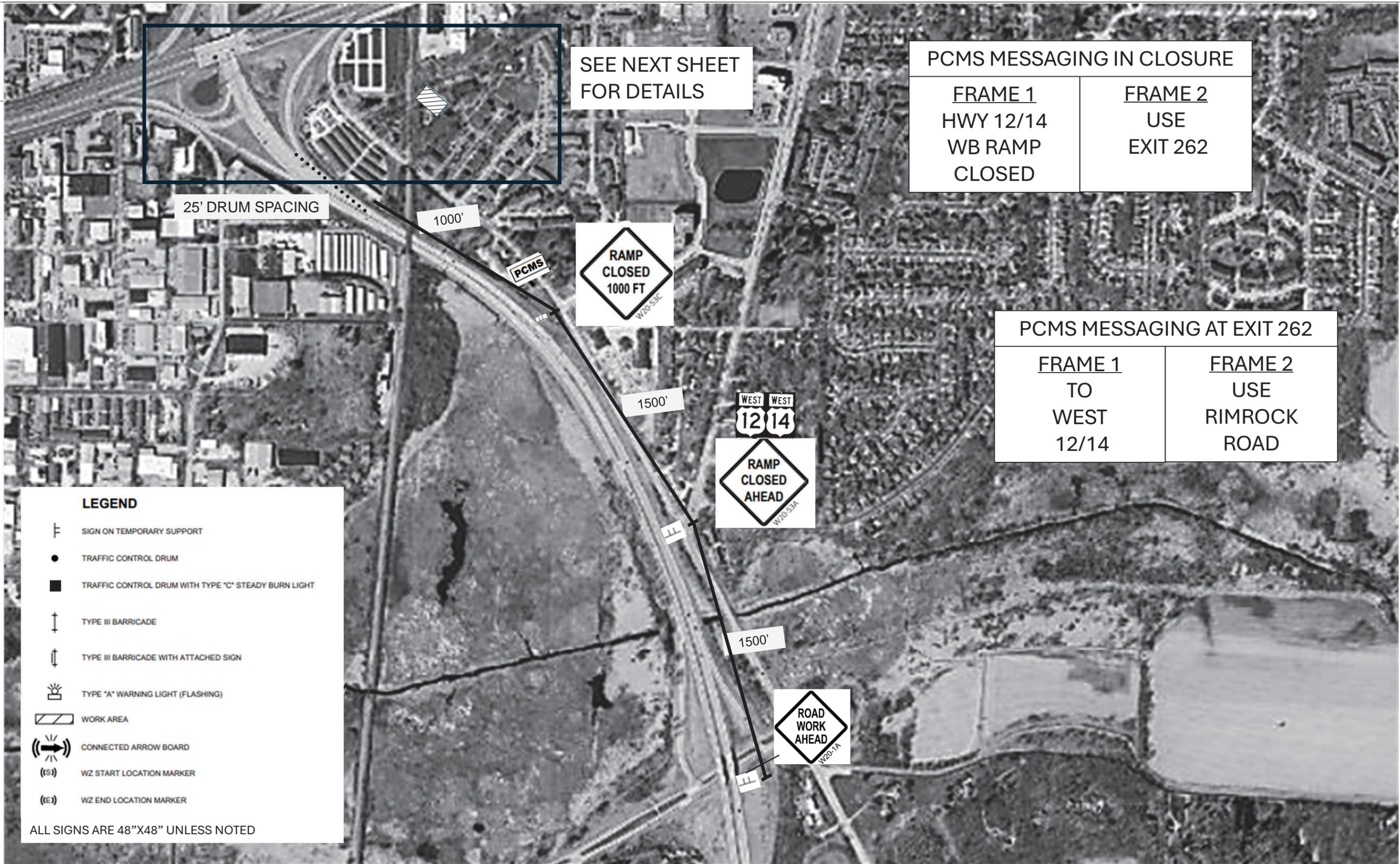
RAMP CLOSED
48"x24"
TYPE III BARRICADE

25' DRUM SPACING

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PCMS MESSAGING IN CLOSURE	
<u>FRAME 1</u> HWY 12/14 WB RAMP CLOSED	<u>FRAME 2</u> USE EXIT 262

25' DRUM SPACING

1000'



1500'



PCMS MESSAGING AT EXIT 262	
<u>FRAME 1</u> TO WEST 12/14	<u>FRAME 2</u> USE RIMROCK ROAD

1500'



LEGEND

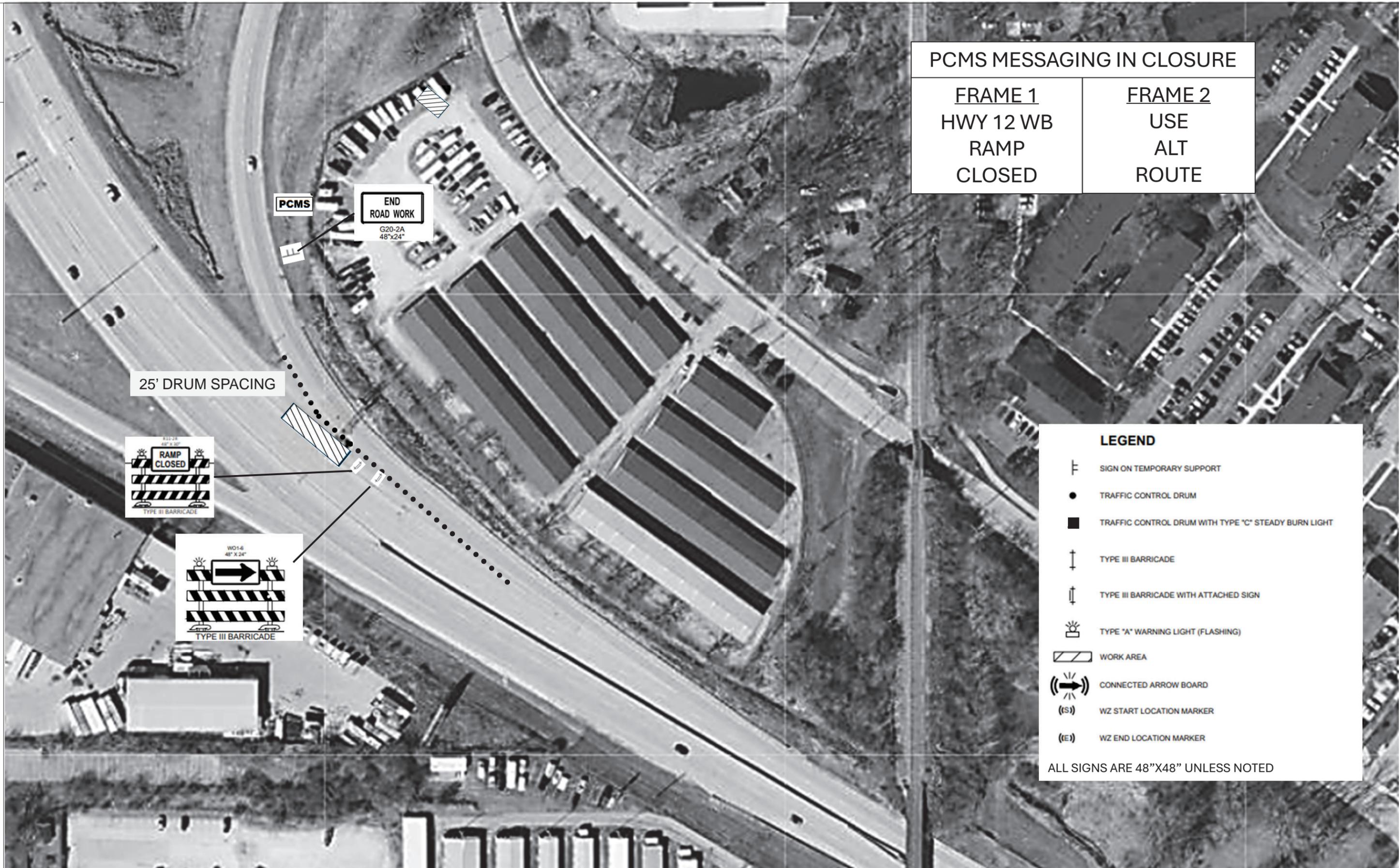
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PCMS MESSAGING IN CLOSURE

FRAME 1
 HWY 12 WB
 RAMP
 CLOSED

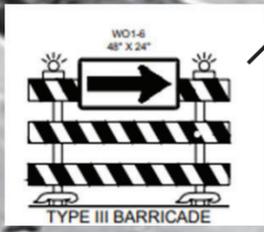
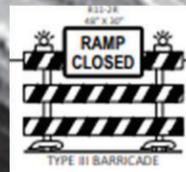
FRAME 2
 USE
 ALT
 ROUTE



PCMS

END
 ROAD WORK
 G20-2A
 48"x24"

25' DRUM SPACING



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Estimate Of Quantities

1000-20-84

Line	Item	Item Description	Unit	Total	Qty
0002	619.1000	Mobilization	EACH	1.000	1.000
0004	635.9010.S	Sign Supports Shorten Structural Steel	EACH	8.000	8.000
0006	635.9020.S	Sign Supports Replacing Base Connection Bolts Legacy System	EACH	76.000	76.000
0008	637.1220	Signs Type I Reflective SH	SF	19,110.500	19,110.500
0010	637.1230	Signs Type I Reflective F	SF	266.000	266.000
0012	637.2220	Signs Type II Reflective SH	SF	247.000	247.000
0014	638.2601	Removing Signs Type I	EACH	138.000	138.000
0016	638.2602	Removing Signs Type II	EACH	5.000	5.000
0018	638.3100	Removing Structural Steel Sign Supports	EACH	2.000	2.000
0020	SPV.0060	Special 01. Traffic Control	EACH	1.000	1.000

TYPE 1 SIGN REPLACEMENT			635.9010.S Sign Supports Shorten Structural Steel EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System	637.1220 Sign Type I Reflective SH SF	637.1230 Sign Type I Reflective F SF	637.2220 Sign Type II Reflective SH SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3100 Removing Structural Steel Sign Supports EACH
REGION	County	Route								
SOUTHEAST	KENOSHA	IH 41	-	6	1,484	266	-	12	-	-
SOUTHWEST	SAUK	Roundabouts	-	-	389.5	-	-	8	-	-
SOUTHWEST	DANE	Main St	-	-	-	-	118	-	5	-
SOUTHWEST	ROCK	Hart Rd Roundabouts	-	-	42	-	129	4	-	-
SOUTHWEST	DANE	USH 12	-	-	240	-	-	2	-	-
SOUTHWEST	DANE	USH 14 AND 138	-	3	954.5	-	-	9	-	2
SOUTHWEST	MONROE/JUNEAU	IH 90 EB	-	6	1,785	-	-	10	-	-
SOUTHWEST	MONROE/JUNEAU	IH 90 WB	-	9	2,392.5	-	-	15	-	-
SOUTHWEST	MONROE	IH 94	2	16	3,180	-	-	20	-	-
SOUTHWEST	JEFFERSON	IH 94	-	14	2,524.5	-	-	14	-	-
NORTHWEST	BAYFIELD	USH 2	-	-	618.5	-	-	6	-	-
NORTHWEST	ST CROIX	USH 12	-	-	150	-	-	1	-	-
NORTHWEST	ST CROIX	STH 35	-	5	650.5	-	-	5	-	-
NORTHWEST	BARRON	USH 53	-	14	2,737.5	-	-	15	-	-
NORTHWEST	ST CROIX	STH 65	-	-	894	-	-	11	-	-
NORTHWEST	ST CROIX	IH 94	-	3	1,068	-	-	6	-	-
UNDISTRIBUTED			6	-	-	-	-	-	-	-
Total			8	76	19,110.5	266	247	138	5	2

**Kenosha County
IH 41**

Sign Number	Route	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	637.1220 Sign Type I Reflective SH SF	637.1230 Sign Type I Reflective F SF	638.2601 Removing Signs Type I EACH	Comments
SE-41-1	IH 41 Northbound	42.5016291	-87.9513018	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	120 276	30 126	Exit 347 165-Q Lakeview Pkwy 1 Mile	1	25 241.5		1	
SE-41-2	IH 41 Northbound	42.5140645	-87.9515307	Right	E3-1 (Area) Next _ Exits	192	54	Pleasant Prairie NEXT 3 EXITS	1	72		1	
SE-41-3	IH 41 Northbound	42.5176144	-87.9514947	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead) E11-1 Exit (Single Down Arrow) Only	120 216 216	30 84 42	EXIT 347 165-Q Lakeview Pkwy EXIT [TR] ONLY		25 126		1	S-30-27
SE-41-4	IH 41 Northbound	42.5322271	-87.951895	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-51 Advanced Exit Guide Sign (Overhead) E11-1 Exit (Single Down Arrow) Only	120 168 168	30 78 36	EXIT 345 C 1/2 Mile EXIT [DA] ONLY		25 91		1	Removed East West S-30-20
SE-41-5	IH 41 Northbound	42.5389104	-87.9519939	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead) E11-1 Exit (Single Down Arrow) Only	120 168 168	30 54 42	Exit 345 C Exit [TR] Only		25 63		1	Removed East West S-30-19
SE-41-6	IH 41 Northbound	42.5495832	-87.9522307	Right	E3-1 Destination - Next Right - Exit Number	132	60	Bristol EXIT 344	1	55		1	
SE-41-7	IH 41 Southbound	42.59115	-87.9530631	Right	E3-1 (Area) Next _ Exits	192	54	Pleasant Prairie NEXT 3 EXITS	1	72		1	
SE-41-8	IH 41 Southbound	42.5852032	-87.9531969	Right	E3-1 Destination - Next Right - Exit Number	132	60	Bristol EXIT 344	1	55		1	
SE-41-9	IH 41 Southbound	42.559265	-87.9528074	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-51 Advanced Exit Guide Sign (Overhead)	120 144	30 78	EXIT 345 C 3/4 MILE		25 78		1	Removed East West S-30-34
SE-41-10	IH 41 Southbound	42.5496285	-87.9525649	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead) E11-1 Exit (Single Down Arrow) Only	120 168 168	30 54 42	EXIT 345 C EXIT [TR] ONLY		25 63		1	Removed East West S-30-21
SE-41-11	IH 41 Southbound	42.5460904	-87.9526001	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	120 276	30 126	EXIT 347 165-Q Lakeview Pkwy 1 Mile	1	25 241.5		1	
SE-41-12	IH 41 Southbound	42.5305483	-87.9522077	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead) E11-1 Exit (Single Down Arrow) Only	120 216 216	30 84 42	EXIT 347 165-Q Lakeview Pkwy Exit [TR] Only		25 126		1	S-30-28
Total									6	1,484	266	12	

Sauk County Roundabouts

Sign Number	Route	Interchange	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	Comments
SW-BD-1	CTH BD Northbound	USH 12	43.556844	-89.778286	Overhead	E6-54-A Overhead Roundabout Guide Sign Ahead Arrows	48	60	BD [UA]	20	1	S-56-15
SW-BD-2	CTH BD Northbound	USH 12	43.556844	-89.778286	Overhead	E6-53 Overhead Roundabout Guide Sign Ahead, Right Arrows	84	84	BD [UA/RA] West 12	49	1	S-56-15
SW-BD-3	CTH BD Southbound	USH 12	43.556806	-89.778416	Overhead	E6-52 Overhead Roundabout Guide Sign Left, Ahead Arrows	132	84	Timothy LN BD [L/AH]	77	1	S-56-15
SW-BD-4	CTH BD	USH 12	43.556806	-89.778416	Overhead	E6-54-A Overhead Roundabout Guide Sign Ahead Arrows	84	84	BLANK BUS BD 12 UA	49	1	S-56-15
SW-FERN-1	Fern Dell Rd Southbound	USH 12	43.559691	-89.782373	Overhead	E6-54-A Overhead Roundabout Guide Sign Ahead Arrows	84	78	WEST 12 BD [UA]	45.5	1	S-56-15
SW-FERN-2	Fern Dell Rd Southbound	USH 12	43.559691	-89.782373	Overhead	E6-53 Overhead Roundabout Guide Sign Ahead, Right Arrows	84	78	BD EAST [UA/RA] 12	45.5	1	S-56-15
SW-FERN-3		USH 12	43.5596414	-89.7821935	Overhead	E6-52 Overhead Roundabout Guide Sign Left, Ahead Arrows	144	72	FERN DELL RD GIEBEL UA/LA CT	72	1	S-56-15
SW-FERN-4		USH 12	43.5596414	-89.7821935	Overhead	E6-54-R Overhead Roundabout Guide Sign Right Arrows	84	54	MOON RD RA	31.5	1	S-56-15
TOTAL										389.5	8	

Dane County Main St

Sign Number	Route	Interchange	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines	637.2220 Sign Type II Reflective SH SF	638.2602 Removing Signs Type II EACH	Comments
SW-Main-1	Main St Eastbound	USH 151	43.1761209	-89.2525718	Overhead	D16-1 Destination Guide Sign (Ahead)	36	72	NORTH 151 DA	18	1	S-13-319
SW-Main-2	Main St Eastbound	USH 151	43.1759471	-89.2502782	Overhead	D15-1 Lane Use/Destination Guide Sign (One Direction)	48	90	NORTH 151 LA ONLY	30	1	S-13-320
SW-Main-3	Main St Westbound	USH 151	43.1764088	-89.2464838	Overhead	D15-1 Lane Use/Destination Guide Sign (One Direction)	48	90	NORTH 151 RA ONLY	30	1	S-13-322
SW-Main-4	Main St Westbound	USH 151	43.1759876	-89.2489590	Overhead	R3-5-L 48W x 60H Left Only	48	60	LA	20	1	S-13-321
SW-Main-5	Main St Westbound	USH 151	43.1759876	-89.2489590	Overhead	R3-5-L 48W x 60H Left Only	48	60	LA	20	1	S-13-322
TOTAL										118	5	

Rock County Hart Rd Roundabouts

Sign Number	Route	Interchange	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines	637.1220 Sign Type I Reflective SH SF	637.2220 Sign Type II Reflective SH SF	638.2601 Removing Signs Type I EACH	Comments
SW-Hart-1	Hart Rd Northbound	IH 43	42.53910795	-88.94798641	Overhead	E6-54-R Overhead Roundabout Guide Sign Right Arrows	84	72	43 NORTH Milwaukee TR	42		1	S-53-39
SW-Hart-2	Hart Rd Northbound	IH 43	42.54026508	-88.94870527	Overhead	E6-54-L Overhead Roundabout Guide Sign Left Arrows	72	72	43 SOUTH RAB LC		36	1	Bridge
SW-81-1	STH 81	IH 43	42.538003	-88.948594	Overhead	E6-54-L Overhead Roundabout Guide Sign Left Arrows	60	72	TO 43 Hart Rd LC		30	1	
SW-81-2	STH 81	IH 43	42.538003	-88.948594	Overhead	E6-54-R Overhead Roundabout Guide Sign Left Arrows	108	84	Blank X To 43 Hart Rd LC/UA		63	1	
TOTAL										42	129	4	

**Dane County
USH 12**

Sign Number	Route	Interchange	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	Comments
SW-12-1	USH 12 Eastbound	EXIT 261	43.0351579	-89.3955607	Exit Ramp Overhead	E6-51 Advanced Exit Guide Sign (Overhead)	156	120	151 North Park St [DA]	130	1	S-13-285
SW-12-2	USH 12 Eastbound	EXIT 261	43.0351579	-89.3955607	Exit Ramp Overhead	E6-51 Advanced Exit Guide Sign (Overhead)	132	120	14 EAST Oregon [DA]	110	1	S-13-285
TOTAL										240	2	

**Dane County
USH 14 and STH 138 Roundabout**

Sign Number	Route	Interchange	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	Comments
SW-14-1	STH 138 Northbound	USH 14	42.93425526	-89.36985087	Median	W19-1 180W x 102H Freeway Ends 1 Mile	180	102	Freeway Ends 1 Mile			1	2	Remove Signs and Beams
SW-14-2	STH 138 Northbound	USH 14	42.93425526	-89.36985087	Right	W19-1 180W x 102H Freeway Ends 1 Mile	180	102	Freeway Ends 1 Mile	1	127.5	1		
SW-14-3	USH 14 Eastbound	STH 138	42.9382377	-89.3699103	Right	E1-5-P Exit Number for E1-1 & E4-1	108	30	EXIT 140 138 Oregon Stoughton 1 MILE	1	22.5	1		
						E1-1-A Advance Exit Guide Sign, __ Mile	192	162		216				
SW-14-4	USH 14 Eastbound	STH 138	42.92423	-89.3693004	Right	E1-5-P Exit Number for E1-1 & E4-1	108	30	EXT 140 138 Oregon [TR] Stoughton	1	22.5	1		
						E4-1-A Exit Direction Sign with Arrow	228	132		209				
SW-138-1	STH 138 Northbound	USH 14	42.9176747	-89.3652736	Overhead	E6-54-R Overhead Roundabout Guide Sign Right Arrows	96	90	14 WEST Madison ONLY [RB]		60	1		S-13-315
SW-138-2	STH 138 Northbound	USH 14	42.9176747	-89.3652736	Overhead	E6-54-A Overhead Roundabout Guide Sign Ahead Arrows	108	90	14 EAST Evansville [UA]		67.5	1		S-13-315
SW-138-3	STH 138 Southbound	USH 14	42.9176829	-89.3696938	Crossroad	E6-54-A Overhead Roundabout Guide Sign Ahead Arrows	84	90	14 WEST Madison [UA]		52.5	1		S-13-312
SW-138-4	STH 138 Southbound	USH 14	42.9175344	-89.3675873	Overhead	E6-52 Overhead Roundabout Guide Sign Left, Ahead Arrows	156	108	138 SOUTH Blank Stoughton 14 WEST [U/LA] Madison [U/LA]		117	1		S-13-313
SW-138-5	STH 138 Southbound	USH 14	42.9175344	-89.3675873	Overhead	E6-54-L Overhead Roundabout Guide Sign Left Arrows	96	90	14 WEST Madison [LB] Only		60	1		S-13-313
TOTAL										3	954.5	9	2	

**Juneau and Monroe Counties
IH 90 Eastbound**

Sign Number	Route	Interchange	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	Comments
SW-90-1	IH 90 Eastbound	STH 12	43.9757877	-90.46552526	Right	E1-1-A Advance Exit Guide Sign, __ Mile	204	162	94 Madison EAU CLAIRE JCT 1 MILE	1	229.5	1	
SW-90-2	IH 90 Eastbound	I-94	43.9782602	-90.46077824	Overhead	E1-5-bP Exit Number for E1-1 & E4-1 (LEFT EXIT)	108	48	Left EXIT 45 94 West Eau Claire St Paul EXIT[DA] 3/4 MI		36	1	S-41-07
						E6-51 Advanced Exit Guide Sign (Overhead)	156	144		156			
SW-90-3	IH 90 Eastbound	I-94	43.9782602	-90.46077824	Overhead	E6-51 Advanced Exit Guide Sign (Overhead)	180	150	90 94 EAST Wis Dells Madison [DA]		187.5	1	S-41-07
SW-90-4	IH 90 Eastbound	I-94	43.9825484	-90.4488122	Overhead	E1-5-bP Exit Number for E1-1 & E4-1 (LEFT EXIT)	108	48	Left EXIT 45		36	1	
						E6-1 Exit Gore Sign (Overhead)	204	114	94 West TL Eau Claire St Paul		161.5		S-41-11
SW-90-5	IH 90 Eastbound	I-94	43.9825485	-90.44881237	Overhead	E6-51 Advanced Exit Guide Sign (Overhead)	204	150	90 94 EAST Wis Dells Madison DA DA		212.5	1	S-41-11
SW-90-6	IH 90 Eastbound		43.975418	-90.413637	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	180	84	Oakdale 2 Wis Dells 39 Madison 88	1	105	1	Changed mileage
SW-90-7	IH 90 Eastbound	CTH PP	43.9688642	-90.39611173	Right	E3-1 Destination - Next Right - Exit Number	144	84	Mill Bluff State Park EXIT 48	1	84	1	
SW-90-8	IH 90 Eastbound	CTH PP	43.9642547	-90.38356445	Right	E1-5-P Exit Number for E1-1 & E4-1	108	30	Exit 48	1	22.5	1	
						E4-1-A Exit Direction Sign with Arrow	192	90	PP Oakdale [TR]		120		
SW-90-9	IH 90 Eastbound		43.9576449	-90.3622435	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	216	84	Camp Douglas 5 Wis Dells 36 Madison 85	1	126	1	Changed mileage
SW-90-10	IH 90 Eastbound		43.9352155	-90.29324907	Right	E1-5-P Exit Number for E1-1 & E4-1	108	30	Exit 55 C		22.5		
						E1-1-A Advance Exit Guide Sign, __ Mile	264	156	Camp Douglas Volk Field 1 1/2 Miles	1	286	1	
TOTAL										6	1,785	10	

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**Juneau and Monroe Counties
IH 90 Westbound**

Sign Number	Route	Interchange	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	Comments
SW-90-11	IH 90 Westbound	Mile Marker 54	43.9279947	-90.2787677	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	192	84	Oakdale 4 La Crosse 56 Eau Claire 90	1	112	1	
SW-90-12	IH 90 Westbound	CTH PP	43.9561915	-90.35340815	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 156	30 120	Exit 48 PP Oakdale 1 Mile	1	22.5 130	1	
SW-90-13	IH 90 Westbound	CTH PP	43.9610944	-90.37148626	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 192	30 90	Exit 48 PP [TR] Oakdale	1	22.5 120	1	
SW-90-14	IH 90 Westbound	I-94	43.9692478	-90.3954722	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 204	30 162	Exit 45 90-94 La Crosse EAU CLAIRE JCT 2 MILES	1	22.5 229.5	1	
SW-90-15	IH 90 Westbound	I-94	43.9761051	-90.41467837	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-51 Advanced Exit Guide Sign (Overhead)	108 156	48 144	Left EXT45 90 WEST Tomah La Crosse EXT [DA] 1 MI		36 156	1	S-41-04
SW-90-16	IH 90 Westbound	I-94	43.9761395	-90.41465327	Overhead	E6-51 Advanced Exit Guide Sign (Overhead)	156	138	94 West Eau Claire St Paul AHEAD		149.5	1	S-41-04
SW-90-17	IH 90 Westbound		43.9768113	-90.4163292	Right	E1-5-aP 72W x 30H LEFT Plaque E10-61 144W x 54H Hospital Exit [000]	48 144	60 54	Left Hospital EXT 45	1	20 54	1	
SW-90-18	IH 90 Westbound	I-94	43.9780459	-90.41974917	Right	E3-1 Destination - Next Right - Exit Number	216	126	94 Fort McCoy EXT 143	1	189	1	
SW-90-19	IH 90 Westbound	I-94	43.9799534	-90.42521168	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-51 Advanced Exit Guide Sign (Overhead)	108 180	48 144	Left EXT45 90 West Tomah La Crosse EXT [DA] 1/2 MI		36 180	1	S-41-06
SW-90-20	IH 90 Westbound	I-94	43.979997	-90.42517716	Overhead	E6-51 Advanced Exit Guide Sign (Overhead)	156	138	94 West Eau Claire St Paul AHEAD		149.5	1	S-41-06
SW-90-21	IH 90 Westbound	I-94	43.9851049	-90.43698896	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead)	108 192	48 114	Left EXT45 90 WEST TL Tomah TL La Crosse		36 152	1	S-41-13
SW-90-22	IH 90 Westbound	I-94	43.9851645	-90.43694505	Overhead	E6-1 Exit Gore Sign (Overhead)	204	150	94 West Eau Claire St Paul DA DA		212.5	1	S-41-13
SW-90-23	IH 90 Westbound	USH 12	43.9817601	-90.45464731	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 144	30 126	Exit 43 12 16 Tomah 1 Mile	1	22.5 126	1	
SW-90-24	IH 90 Westbound	USH 12	43.9774129	-90.46339314	Right	E3-1 Destination - Next Right - Exit Number	192	60	Amtrak Station EXT 43	1	80	1	
SW-90-25	IH 90 Westbound	USH 12	43.9749711	-90.46847435	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 168	30 96	Exit 43 12 16 Tomah [TR]	1	22.5 112	1	
TOTAL										9	2,392.5	15	

PROJECT NO: 1000-20-84

HWY: VARIOUS

COUNTY: VARIOUS

MISCELLANEOUS QUANTITIES

SHEET:

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Monroe County IH 94										635.9010.S Sign Supports Shorten Structural Steel EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	637.1220 Sign Type I Reflective SH	638.2601 Removing Signs Type I EACH	Comments
Sign Number	Route	Interchange	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines					
SW-94-1	IH 94 Eastbound	USH 12	44.039099	-90.51398	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, ___ Mile	108 168	30 162	Exit 143 12 21 Tomah Necedah 1 Mile		1	22.5 189	1	
SW-94-2	IH 94 Eastbound		44.036695	-90.513869	Right	E10-61 144W x 54H Hospital Exit [000]	144	54	Hospital Exit 143		1	54	1	
SW-94-3	IH 94 Eastbound	USH 12	44.035055	-90.513647	Right	E3-1 Destination - Next Right - Exit Number	228	90	VA Medical Center Antrak Station EXIT 143		1	142.5	1	
SW-94-4	IH 94 Eastbound		44.032092	-90.513226	Right	E3-1 Destination - Next Right - Exit Number	156	114	Fort McCoy State Patrol Academy EXIT 143		1	123.5	1	
SW-94-5	IH 94 Eastbound	USH 12	44.024961	-90.510663	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 192	30 132	Exit 143 12 21 Tomah [TR] Necedah		1	22.5 176	1	
SW-94-6	IH 94 Eastbound	I-90	44.009486	-90.486203	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, ___ Mile	108 264	30 84	Exit 145 Industrial Ave 3/4 MILE		1	22.5 154	1	
SW-94-7	IH 94 Eastbound	Industrial Ave	44.001259	-90.476996	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 300	30 54	Exit 145 Industrial Ave [TR]		1	22.5 112.5	1	
SW-94-8	IH 94 Eastbound	I-90	43.994359	-90.464249	Overhead	E6-51 Advanced Exit Guide Sign (Overhead)	156	150	Exit 147 90 WEST LaCrosse Albert Lea [DA]			22.5 162.5	1	S-41-08
SW-94-9	IH 94 Eastbound	I-90	43.994359	-90.464249	Overhead	E6-51 Advanced Exit Guide Sign (Overhead)	180	138	90-94 East Wis Dells Madison AHEAD			22.5 172.5	1	S-41-08
SW-94-10	IH 94 Eastbound	I-90	11	-90.453499	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead)	108 192	30 114	Exit 147 90 West La Crosse Albert Lea [TR]			22.5 152	1	S-41-12
SW-94-11	IH 94 Eastbound	I-90	43.989617	-90.453506	Overhead	E6-1 Exit Gore Sign (Overhead)	204	150	90 - 94 EAST Wis Dells Madison DA DA			22.5 212.5	1	S-41-12
SW-94-12	IH 94 Westbound	I-90	43.990896	-90.451434	Right	E8-1-A Seq. Sign - City Name - Name- Highways - ___ Miles	228	96	Tomah Exits Industrial Ave 3/4 12 21 3		1	152	1	
SW-94-13	IH 94 Westbound		43.992346	-90.456031	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, ___ Mile	108 264	30 84	Exit 145 Industrial Ave 1/2 Mile		1	22.5 154	1	
SW-94-14	IH 94 Westbound		43.995182	-90.465038	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 300	30 54	Exit 145 Industrial Ave TR		1	22.5 112.5	1	
SW-94-15	IH 94 Westbound	STH 21	44.004658	-90.480332	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, ___ Mile E2-1 156W x 24H Next Exit _ Miles, (Message in one line)	108 168	30 162	Exit 143 12 21 Tomah Necedah 1 Mile Next Exit 7 Miles	2	1	22.5 189 0	1	Remove Plaque
SW-94-16	IH 94 Westbound	STH 21	44.01119	-90.487644	Right	E3-1 Destination - Next Right - Exit Number	228	90	VA Medical Center Antrak Station EXIT 143		1	142.5	1	
SW-94-17	IH 94 Westbound	STH 21	44.01299	-90.489662	Right	E3-1 Destination - Next Right - Exit Number	156	114	Fort McCoy State Patrol Academy EXIT 143		1	123.5	1	
SW-94-18	IH 94 Westbound	STH 21	44.01502	-90.491932	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 192	30 132	Exit 143 12 21 Tomah [TR] Necedah		1	22.5 176	1	
SW-94-19	IH 94 Westbound		44.122133	-90.533603	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 192	30 90	Exit 135 EW Warrens [TR]		1	22.5 120	1	
SW-94-20	IH 94 Westbound		44.136925	90.537717	Right	E8-1 Sequence Sign-Highways ___ Miles	192	84	Millston 8 Eau Claire 66 St Paul 150		1	112	1	
TOTAL										2	16	3,180	20	

Jefferson IH 94

Sign Number	Route	Interchange	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH
SW-94-21	IH 94 Eastbound		43.1012263	-88.9326693	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	120 192	30 162	EXIT 259 89 Lake Mills Waterloo 1 MILE	1	25 216	1
SW-94-22	IH 94 Eastbound		43.0976512	-88.9222792	Right	E3-1 Destination - Next Right - Exit Number	192	138	Glacial Drumlin State Trail Aztalan State Park EXIT 259	1	184	1
SW-94-23	IH 94 Eastbound		43.0951285	-88.9149396	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	120 240	30 132	EXIT 259 89 Lake Mills [TR] Waterloo	1	25 220	1
SW-94-24	IH 94 Eastbound		43.09005044	-88.90015445	Right	E5-51 144W x 60H Rest Area __ Miles	144	60	REST AREA 1 MILE	1	60	1
SW-94-25	IH 94 Eastbound		43.08696377	-88.85859265	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	228	84	Johnson Creek 4 Oconomowoc 20 Milwaukee 44	1	133	1
SW-94-26	IH 94 Eastbound	STH 26	43.08659078	-88.7441431	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	204	90	HWY F 8 Oconomowoc 14 Milwaukee 38	1	127.5	1
SW-94-27	IH 94 Westbound	STH 26	43.086662	-88.7367423	Right	E3-1 Destination - Next Right - Exit Number	168	84	Jefferson Fort Atkinson EXIT 267	1	98	1
SW-94-28	IH 94 Westbound	STH 26	43.086662	-88.7367423	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	120 264	30 162	EXIT 267 26 Watertown Johnson Creek 1 Mile	1	25 297	1
SW-94-29	IH 94 Westbound	STH 26	43.0869934	-88.7493777	Right	D4-4 Park and Ride	144	90	PARK & RIDE EXIT 267	1	90	1
SW-94-30	IH 94 Westbound	STH 26	43.0870584	-88.7523409	Right	E10-61 144W x 54H Hospital Exit [000]	144	54	Hospital EXIT 267	1	54	1
SW-94-31	IH 94 Westbound	STh 26	43.0870171	-88.7551043	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	120 300	30 132	EXIT 267 26 Watertown [TR] Jonhson Creek	1	25 275	1
SW-94-32	IH 94 Westbound		43.087744	-88.8844056	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	120 192	30 162	Exit 259 89 Lake Mills Waterloo 1 Mile	1	25 216	1
SW-94-33	IH 94 Westbound		43.0903142	-88.8999859	Right	E3-1 Destination - Next Right - Exit Number	192	138	Glacial Drumlin State Trail Aztalan State Park EXIT 259	1	184	1
SW-94-34	IH 94 Westbound		43.0913121	-88.9028358	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	120 240	30 132	Exit 259 89 Lake Mills [TR] Waterloo	1	25 220	1
TOTALS										14	2,524.5	14

Bayfield USH 2

Sign Number	Route	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	Comments
NW-2-1	USH 2 Eastbound	46.58483759	-90.95830751	Overhead	E6-54-L Overhead Roundabout Guide Sign Left Arrows	108	114	13 NORTH Washburn Bayfield ONLY	85.5	1	S-4-3
NW-2-2	USH 2 Eastbound	46.58481278	-90.95826729	Overhead	E6-54-R Overhead Roundabout Guide Sign Right Arrows	96	126	EAST SOUTH 2 13 Ashland Hurley [TR] ONLY	84	1	S-4-3
NW-2-3	USH 2 Westbound	46.5875296	-90.94311765	Overhead	E6-51 Advanced Exit Guide Sign (Overhead)	132	150	2 WEST Superior Duluth [DA] ONLY	137.5	1	S-4-1
NW-2-4	USH 2 Westbound	46.58753694	-90.94309699	Overhead	E6-51 Advanced Exit Guide Sign (Overhead)	144	150	13 NORTH Washburn Bayfield [DA] ONLY	150	1	S-4-1
NW-2-5	USH 2 Westbound	46.58813728	-90.94853841	Overhead	E6-54-A Overhead Roundabout Guide Sign Ahead Arrows	96	114	2 WEST Superior Duluth [UA] Only	76	1	S-4-2
NW-2-6	USH 2 Westbound	46.58813735	-90.94853061	Overhead	E6-54-R Overhead Roundabout Guide Sign Right Arrows	108	114	13 NORTH Washburn Bayfield ONLY	85.5	1	S-4-2
TOTALS									618.5	6	

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3

St. Croix USH 12

Sign Number	Route	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	Comments
NW-12-1	USH 12 Westbound	44.99258557	-92.55714884	Overhead	E6-51 Advanced Exit Guide Sign (Overhead)	240	90	12 WEST SOUTH TO BLANK 65 94 BLANK 120th [LA] BLANK [LAR] St	150	1	S-55-50
TOTALS									150	1	

St. Croix STH 35

Sign Number	Route	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH
NW-35-1	STH 35 Northbound	44.8720957	-92.6134452	Right	E1-51-A Advance Exit Guide Sign, Exit __ Mile	168	126	65 NORTH Main St EXT 1/3 MILE	1	147	1
NW-35-2	STH 35 Northbound	44.8753956	-92.61772	Right	E4-1-A Exit Direction Sign with Arrow	204	96	65 NORTH Main St [TR]	1	136	1
NW-35-3	STH 35 Southbound	44.886959	-92.62897579	Right	E1-51-A Advance Exit Guide Sign, Exit __ Mile	168	126	65 NORTH Main St EXT 1/3 MILE	1	147	1
NW-35-4	STH 35 Southbound	44.88480971	-92.62676197	Median	E3-1 Destination - Next Right - Exit Number	156	78	65 SOUTH AHEAD	1	84.5	1
NW-35-5	STH 35 Southbound	44.88341065	-92.62595215	Right	E4-1-A Exit Direction Sign with Arrow	204	96	65 NORTH Main St [TR]	1	136	1
TOTALS									5	650.5	5

Barron USH 53

Sign Number	Route	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	Comments
NW-53-1	USH 53 Northbound	45.41150069	-91.76298975	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	168	84	Rice Lake 4 Spoooner 31 Superior 97	1	98	1	
NW-53-2	USH 53 Northbound	45.43743296	-91.76026217	Right	E8-1-A Seq. Sign - City Name - Name- Highways - __ Miles	192	96	Rice Lake Exits Hwy O 2 1/4 Hwy 48 4 1/2	1	128	1	
NW-53-3	USH 53 Northbound	45.45031275	-91.75953903	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 192	30 120	Exit 140 O Rice Lake 1 1/4 MILES	1	22.5 160	1	
NW-53-4	USH 53 Northbound	45.4681112	-91.75727602	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 228	30 90	Exit 140 O Rice Lake [TR]	1	22.5 142.5	1	
NW-53-5	USH 53 Northbound	45.4914531	-91.76279327	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 216	30 162	Exit 143 48 Rice Lake Cumberland 3/4 MILE	1	22.5 243	1	
NW-53-6	USH 53 Northbound	45.50211234	-91.76343315	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 252	30 132	Exit 143 48 Rice Lake [TR] Cumberland		22.5 231	1	
NW-53-7	USH 53 Northbound	45.53351427	-91.75983054	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	168	84	Haugen 6 Spoooner 22 Superior 89	1	98	1	
NW-53-8	USH 53 Southbound	45.53968482	-91.76196333	Right	E8-1-A Seq. Sign - City Name - Name- Highways - __ Miles	192	96	Rice Lake Exits Hwy 48 1 3/4 Hwy O 4 1/4	1	128	1	
NW-53-9	USH 53 Southbound	45.52918064 45.52918242	-91.7602346 -91.76023522	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 216	30 162	Exit 143 48 Rice Lake Cumberland 1 MILE	1	22.5 243	1	
NW-53-10	USH 53 Southbound	45.51484254 45.51484118	-91.76091083 -91.76091078	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 252	30 132	Exit 143 48 Rice Lake [TR] Cumberland	1	22.5 231	1	
NW-53-11	USH 53 Southbound	45.49578097 45.49578107	-91.76446014 -91.76445372	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	120 192	30 120	Exit 140 O Rice Lake 1 1/4 MILES	1	25 160	1	
NW-53-12	USH 53 Southbound	45.47790507 45.47790427	-91.76033225 -91.76033106	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 228	30 90	Exit 140 O Rice Lake [TR]	1	22.5 142.5	1	
NW-53-13	USH 53 Southbound	45.45473303	-91.76054262	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	240	84	Cameron 5 Chippewa Falls 43 Eau Claire 53	1	140	1	
NW-53-14	USH 53 Southbound	45.41649508 45.41649503	-91.76441621 -91.76441942	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 168	30 162	Exit 135 8 Barron Cameron 1 MILE	1	22.5 189	1	
NW-43-15	USH 53 Southbound	45.40233	-91.76083	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 192	30 132	Exit 135 8 Barron [TR] Cameron	1	22.5 176	1	
TOTAL									14	2,737.5	15	

3

3

St. Croix STH 65

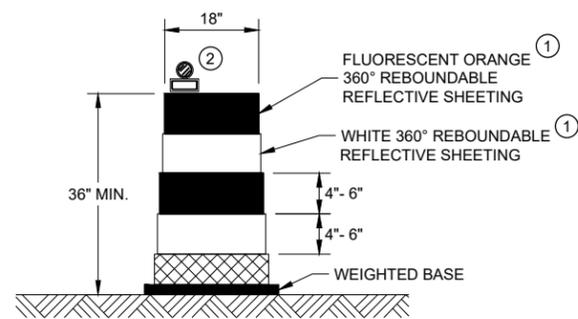
Sign Number	Route	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	Comments
NW-65-1	STH 65 Northbound	44.95805065	-92.55998239	Overhead	E6-54-A Overhead Roundabout Guide Sign Ahead Arrows	84	126	WEST NORTH 94 65 Hudson Roberts [UA]	73.5	1	S-55-45
NW-65-2	STH 65 Northbound	44.95805416	-92.5599278	Overhead	E6-53 Overhead Roundabout Guide Sign Ahead, Right Arrows	156	108	65 NORTH Roberts [UA/RA] 94 EAST BLANK Eau Claire	117	1	S-55-45
NW-65-3	STH 65 Northbound	44.95947965	-92.55969764	Overhead	E6-52 Overhead Roundabout Guide Sign Left, Ahead Arrows	168	126	65 NORTH Roberts New Richmond 94 WEST HUDSON [LA/UA]	147	1	S-55-44
NW-65-4	STH 65 Northbound	44.95946717	-92.55964233	Overhead	E6-54-A Overhead Roundabout Guide Sign Ahead Arrows	144	114	65 NORTH Roberts New Richmond [UA]	114	1	S-55-44
NW-65-5	STH 65 Northbound	44.9911997	-92.5580319	Overhead	E6-54-R Overhead Roundabout Guide Sign Right Arrows	84	90	NORTH EAST 65 12 BLANK [RA]	52.5	1	S-55-51
NW-65-6	STH 65 Northbound	44.9911997	-92.5580319	Overhead	E6-52 Overhead Roundabout Guide Sign Left, Ahead Arrows	96	90	Blank 120th Blank Street WEST 12 [LA/UA]	60	1	S-55-51
NW-65-7	STH 65 Southbound	44.99385928	-92.53751616	Overhead	E6-54-R Overhead Roundabout Guide Sign Right Arrows	108	90	WEST SOUTH TO 12 65 94	67.5	1	S-55-49
NW-65-8	STH 65 Southbound	44.99385928	-92.53751616	Overhead	E6-52 Overhead Roundabout Guide Sign Left, Ahead Arrows	96	90	BLANK 130th BLANK Street EAST 12	60	1	S-55-49
NW-65-9	STH 65 Southbound	44.96118806	-92.55946567	Overhead	E6-54-A Overhead Roundabout Guide Sign Ahead Arrows	108	90	94 EAST Eau Claire [UA]	67.5	1	S-55-46
NW-65-10	STH 65 Southbound	44.96118806	-92.55946567	Overhead	E6-54-A Overhead Roundabout Guide Sign Ahead Arrows	108	90	65 SOUTH River Falls [UA]	67.5	1	S-55-46
NW-65-11	STH 65 Southbound	44.95952136	-92.5598448	Overhead	E6-54-A Overhead Roundabout Guide Sign Ahead Arrows	108	90	65 SOUTH River Falls [UA]	67.5	1	S-55-44
TOTALS									894	11	

St. Croix IH 94

Sign Number	Route	Lat	Long	Location	Sign Code and Description	Width	Height	Order Lines	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	Comments
NW-94-1	IH 94 Eastbound	44.96069292	-92.59008698	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, ___ Mile E2-1 156W x 24H Next Exit _ Miles, (Message in one line)	96 264	30 162	Exit 10 65 Roberts New Richmond 1 MILE 7	1	20 297 0	1	Remove Plaque
NW-94-2	IH 94 Eastbound	44.96010254	-92.56984728	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	96 300	30 132	Exit 10 65 Roberts [TR] New Richmond	1	20 275	1	
NW-94-3	IH 94 Eastbound	44.95870294	-92.56108426	Overhead	E6-52 Overhead Roundabout Guide Sign Left, Ahead Arrows	204	114	65 NORTH Roberts SOUTH New Richmond 65 [LA] [LA/RA]		161.5	1	S-55-47
NW-94-4	IH 94 Westbound	44.96028153	-92.5585196	Overhead	E6-54-L Overhead Roundabout Guide Sign Left Arrows	108	90	65 SOUTH River Falls [LA]		67.5	1	
NW-94-5	IH 94 Westbound	44.96031651	-92.55848895	Overhead	E6-54-R Overhead Roundabout Guide Sign Right Arrows	144	108	65 NORTH Roberts New Richmond [RA]		108	1	S-55-48
NW-94-6	IH 94 Westbound	44.9609633	-92.57883658	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	204	84	Hudson 9 St Paul 24 Minneapolis 34	1	119	1	
TOTALS									3	1,068	6	

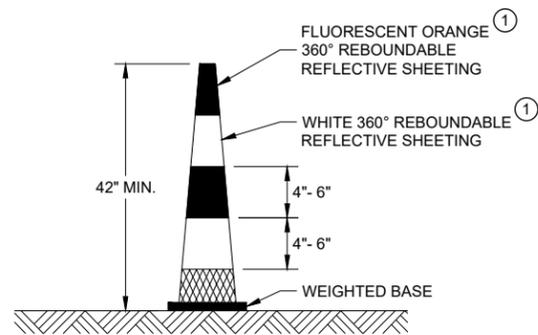
Standard Detail Drawing List

15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09B	TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE
15D12-15A	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D15-08A	TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-08B	TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-08C	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-08D	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-08E	TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE
15D16-06	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-10A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
15D20-10B	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D20-10C	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D22-08	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D27-04	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D37-03	TRAFFIC CONTROL, 2-LANE ROUNDABOUT
15D40-06A	TRAFFIC CONTROL, FULL LANE SHIFT NON-FREEWAY/EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D40-06B	TRAFFIC CONTROL, FULL LANE SHIFT MULTILANE DIVIDED 50 MPH AND OVER
15D40-06C	TRAFFIC CONTROL, PARTIAL LANE SHIFT NON-FREEWAY/EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D40-06D	TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
15D41-05A	TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTILANE DIVIDED ROAD
15D41-05B	TRAFFIC CONTROL, MULTIPLE LANE SHIFT DIVIDED ROAD TEMPORARY TAPE RUMBLE STRIPS
15D42-04	TRAFFIC CONTROL, TWO LANE FULL FREEWAY CLOSURE
15D43-02	TRAFFIC CONTROL, SHORT DURATION MOBILE OPERATIONS
15D49-05	TRAFFIC CONTROL, SYSTEM RAMP CLOSURE
15D50-04A	TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT
15D50-04B	TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT



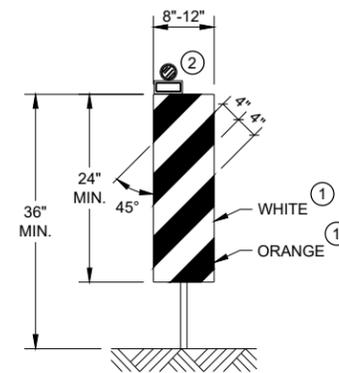
DRUM

BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS
BALLAST WIDTHS
RANGE FROM 14"-20"

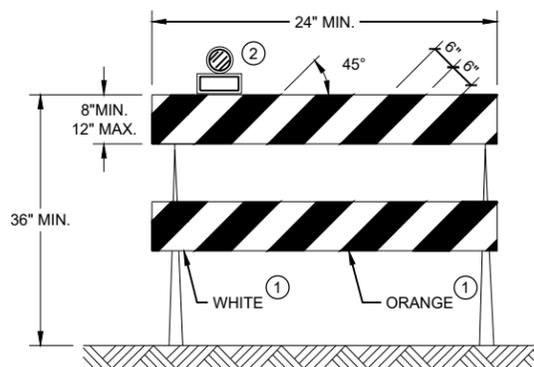


VERTICAL PANEL

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

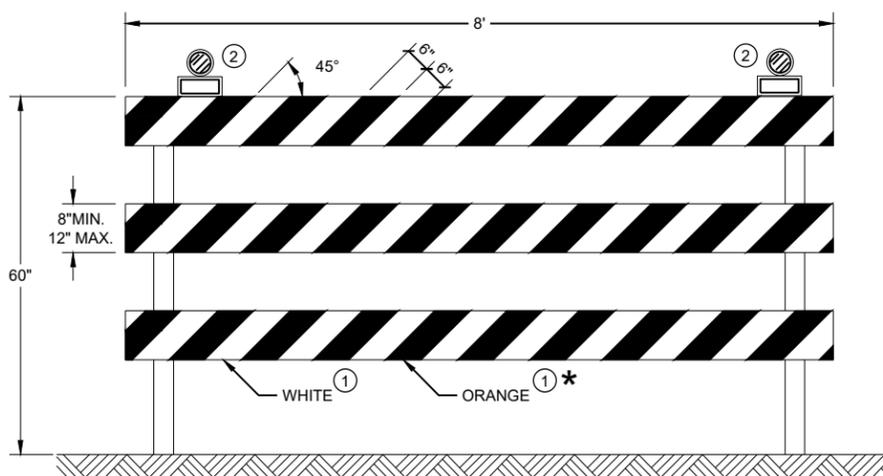
GENERAL NOTES

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

**CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
 November 2022 /S/ Andrew Heidtke
 DATE WORK ZONE ENGINEER
 FHWA

GENERAL NOTES

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL CONE 42-INCH
-  TRAFFIC CONTROL DRUM
-  TEMPORARY PORTABLE RUMBLE STRIP ARRAY
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

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.

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

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

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

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

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

FLAGGING

IF THE AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) STOPS WORKING, 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 PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

- ① SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- ② IF FLAGGERS ARE PHYSICALLY NEEDED TO FLAG, REPLACE WO3-4 SIGNS WITH W20-7A SIGNS.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

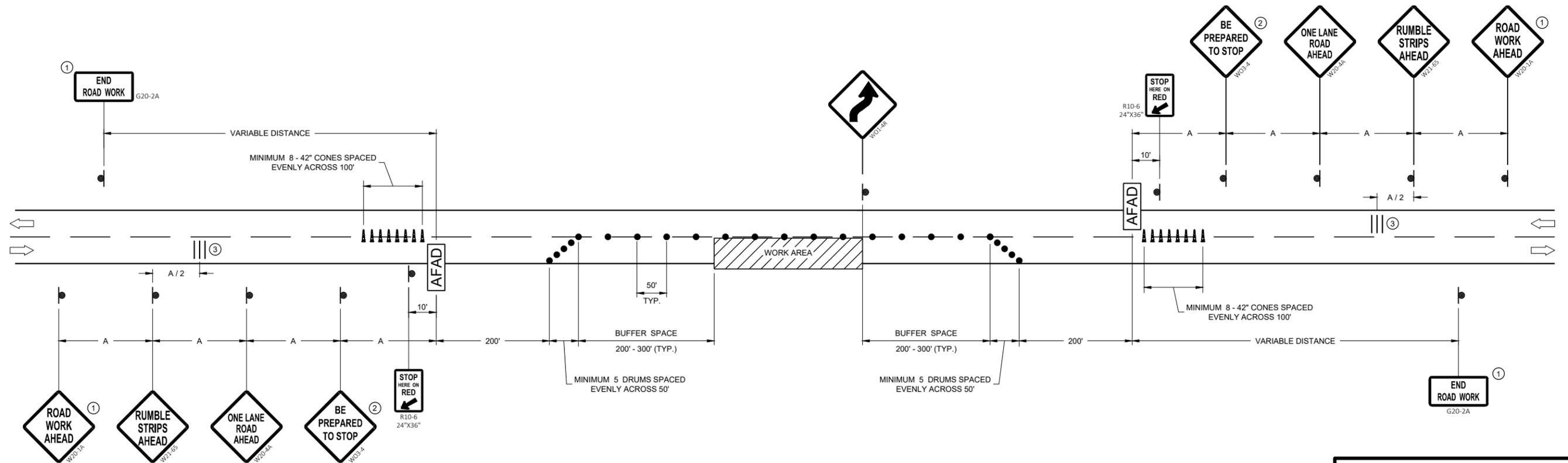
DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSELY AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER.



SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

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 DESIRABLE) CLEARANCE TO EXISTING SIGNS.

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

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

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

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

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 AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

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

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE 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 ONE HALF 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.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

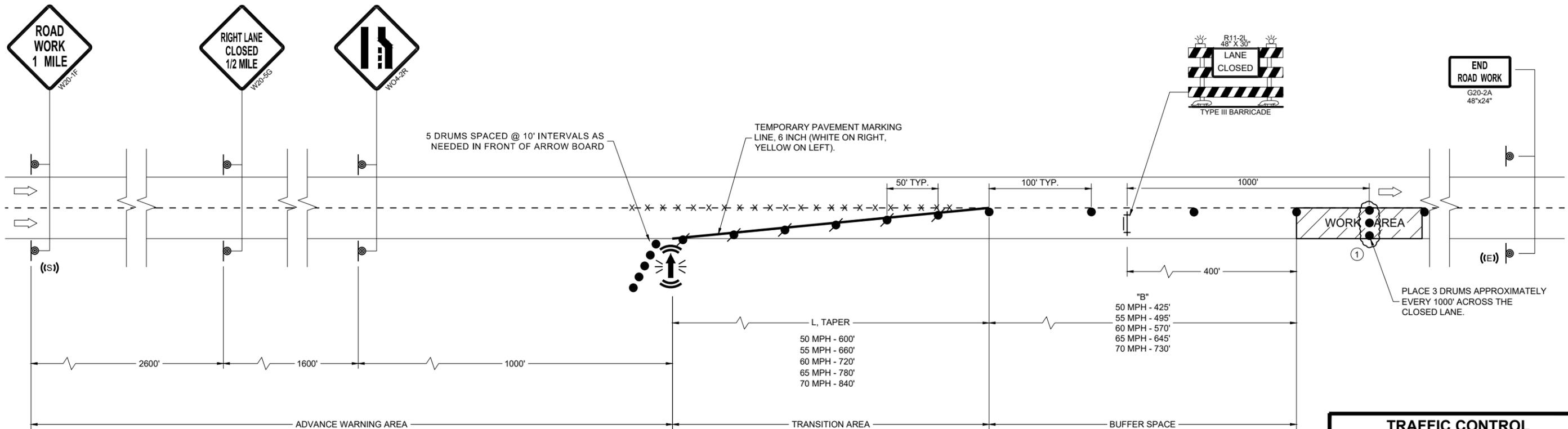
① DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- ⊕ TYPE III BARRICADE WITH ATTACHED SIGN
- ⚡ TYPE "A" WARNING LIGHT (FLASHING)
- × × × REMOVING PAVEMENT MARKINGS
- ➡ DIRECTION OF TRAFFIC
- ▨ WORK AREA
- ⊕ ((➡)) CONNECTED ARROW BOARD
- (S) WZ START LOCATION MARKER
- (E) WZ END LOCATION MARKER

6

SDD 15D12-16a



TRAFFIC CONTROL LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2025 DATE	/S/ Andrew Heidtke ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

6

SDD 15D12-16a

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
-  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" X 48" 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 CONSECUTIVE 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.

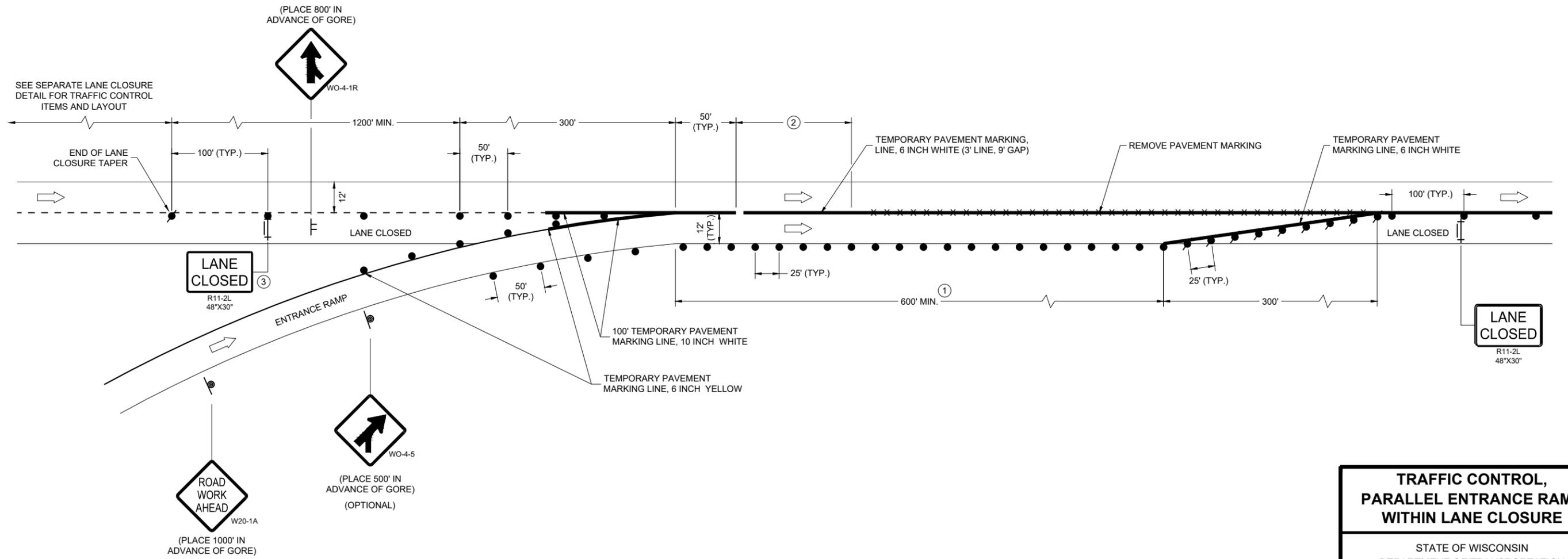
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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 LINES 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.

- ① EXTEND THE LENGTH OF THE MERGE ARE IF THE ENTERING (DESIGN) SPEED IS LESS THAN 50MPH OR IF THE MAINLINE GRADE EXCEEDS ±2.2%.
- ② END TEMPORARY PAVEMENT MARKING LINE AT 1/2 THE LENGTH OF FULL WIDTH OF THE ACCELERATION LANE.
- ③ IF LOCATED AFTER INITIAL LANE CLOSURE BARRICADE AND "LANE CLOSED" SIGN, USE 3 DRUMS IN PLACE OF BARRICADE AND SIGN.



TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2025 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

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
-  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" X 48" 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 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

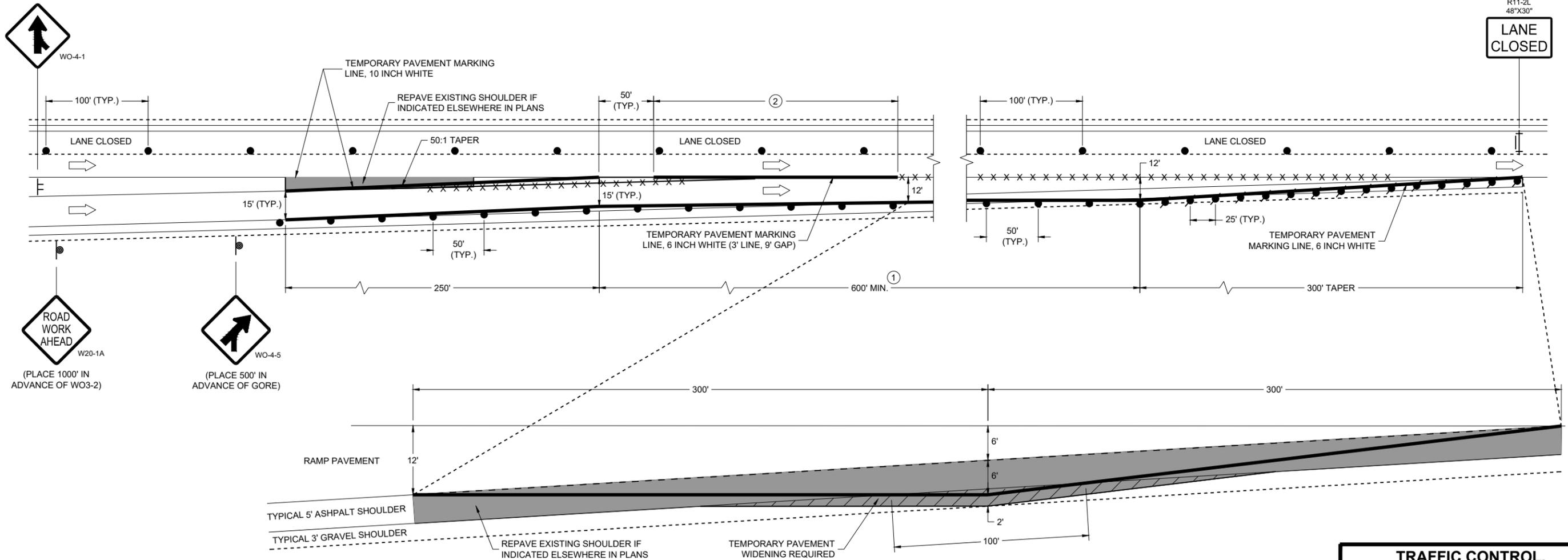
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS /OR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

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 LINES 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.

- ① EXTEND THE LENGTH OF THE MERGE AREA IF THE ENTERING (DESIGN) SPEED OF THE RAMP IS LESS THAN 50 MPH OR IF THE MAINLINE GRADE EXCEEDS ±2.2%.
- ② END TEMPORARY PAVEMENT MARKING LINE AT 1/2 THE LENGTH OF FULL WIDTH OF THE ACCELERATION LANE.

(PLACE 800' IN ADVANCE OF GORE)



TEMPORARY PAVEMENT DETAIL
(EXISTING RAMP DIMENSIONS MAY VARY, ADJUST TEMPORARY PAVEMENT ACCORDINGLY)

**TRAFFIC CONTROL,
ENTRANCE RAMP
WITHIN LANE CLOSURE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

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
-  FLAGS, 16" X 16" MIN., ORANGE
-  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" X 48" 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.

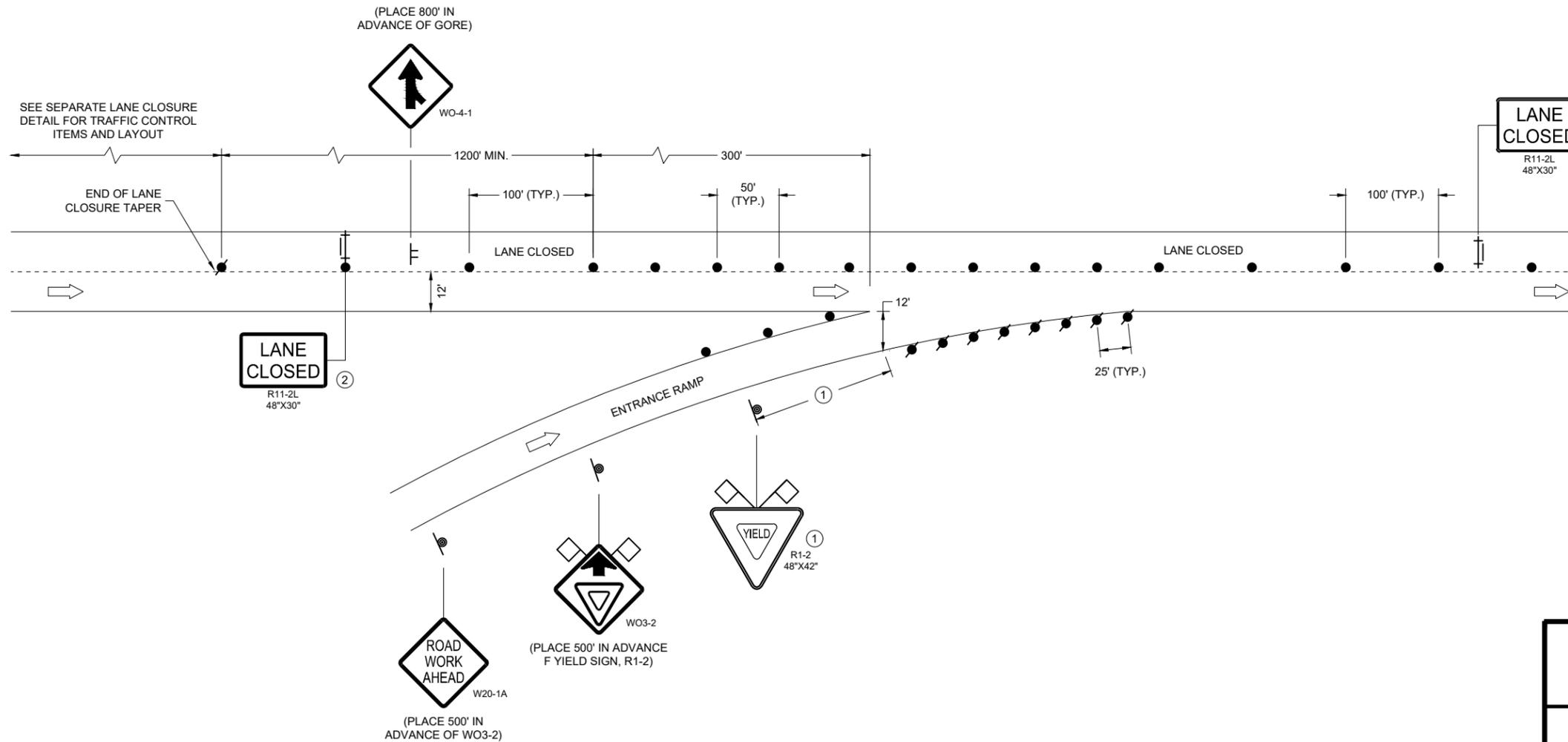
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

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.

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

- ① PLACE YIELD SIGN TO PROVIDE ADEQUATE SIGHT DISTANCE AND ACCELERATION DISTANCE.
- ② IF LOCATED AFTER INITIAL LANE CLOSURE BARRICADE AND "LANE CLOSED" SIGN, USE 3 DRUMS IN PLACE OF BARRICADE AND SIGN.



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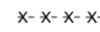
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SDD 15D15-08d

SDD 15D15-08d

TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2025 DATE	/s/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

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
-  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" X 48" 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 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

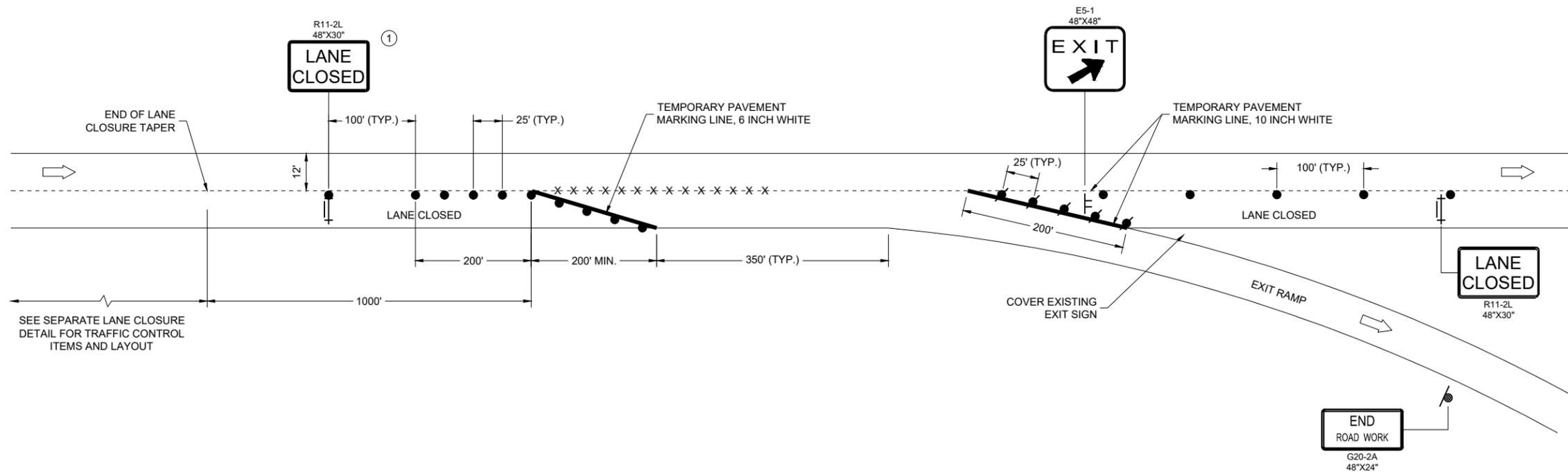
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

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 LINES 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.

① IF LOCATED AFTER INITIAL LANE CLOSURE BARRICADE AND "LANE CLOSED" SIGN, USE 3 DRUMS IN PLACE OF BARRICADE AND SIGN.



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SDD 15D15-08e

SDD 15D15-08e

TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2025 DATE	/s/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

LEGEND

- † TYPE III BARRICADE
- †† TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ⚡ TYPE "A" WARNING LIGHT (FLASHING)
- ➡ DIRECTION OF TRAFFIC

GENERAL NOTES

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

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" X 48" UNLESS OTHERWISE NOTED.

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.

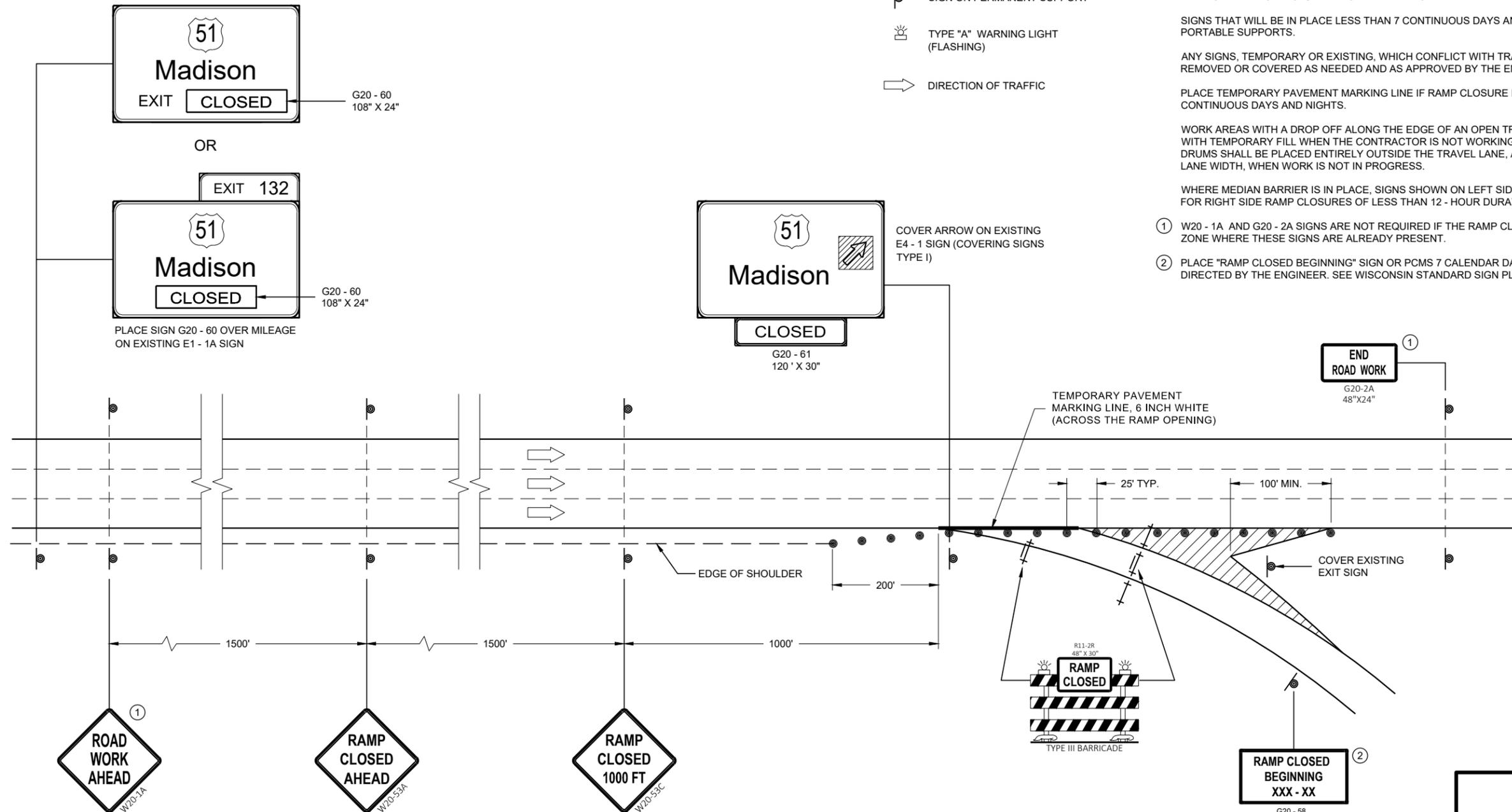
PLACE TEMPORARY PAVEMENT MARKING LINE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

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.

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

② PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



RAMP CLOSED BEGINNING XXX - XX	
G20 - 58 OR PCMS MESSAGING	
FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX

**TRAFFIC CONTROL,
EXIT RAMP CLOSURE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE May 2023 /S/ Andrew Heidtke
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

FHWA

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  REMOVING PAVEMENT MARKINGS
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  CONNECTED ARROW BOARD
-  WZ START LOCATION MARKER
-  WZ END LOCATION MARKER

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

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.

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 REGIONAL TRAFFIC UNIT.

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

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

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 TEMPORARY SUPPORTS.

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 TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN

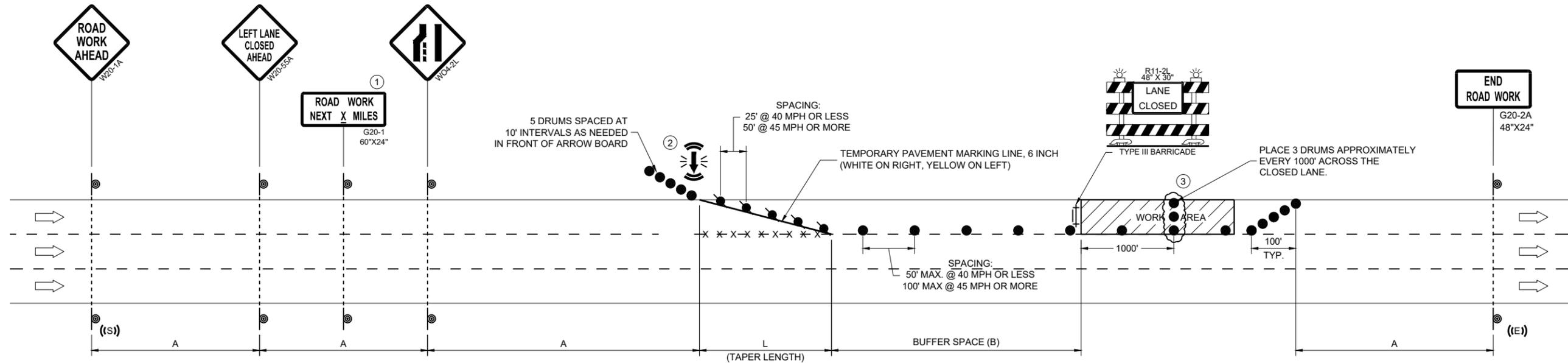
PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

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

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

- ① OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- ② WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.
- ③ DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	155'
30	200'	180'	200'
35	350'	245'	250'
40	350'	320'	305'
45	500'	540'	360'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  REMOVING PAVEMENT MARKINGS
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  CONNECTED ARROW BOARD
-  WZ START LOCATION MARKER
-  WZ END LOCATION MARKER

GENERAL NOTES

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

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 REGIONAL TRAFFIC UNIT.

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

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

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 TEMPORARY SUPPORTS.

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 TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE

IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

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

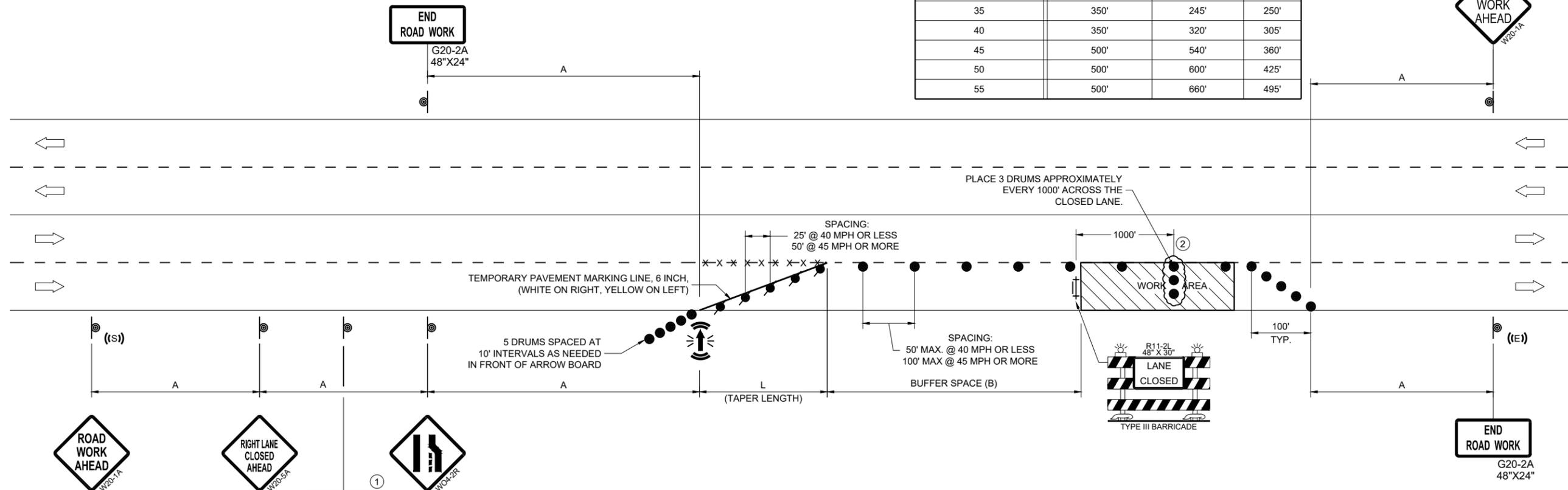
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

- ① OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- ② DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	155'
30	200'	180'	200'
35	350'	245'	250'
40	350'	320'	305'
45	500'	540'	360'
50	500'	600'	425'
55	500'	660'	495'

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SDD 15D20-11b

SDD 15D20-11b

**TRAFFIC CONTROL,
SINGLE RIGHT LANE
CLOSURE, UNDIVIDED
NON-FREEWAY/EXPRESSWAY**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  REMOVING PAVEMENT MARKINGS
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  CONNECTED ARROW BOARD
-  WZ START LOCATION MARKER
-  WZ END LOCATION MARKER

GENERAL NOTES

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

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 REGIONAL TRAFFIC UNIT.

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

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

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 TEMPORARY SUPPORTS.

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 TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

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

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

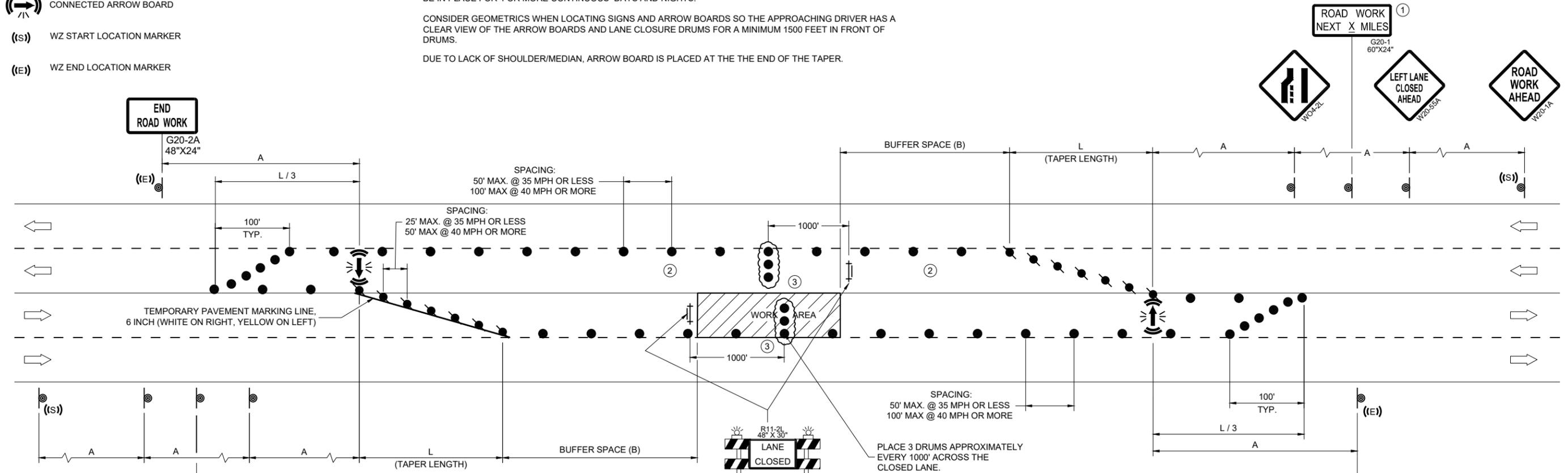
DUE TO LACK OF SHOULDER/MEDIAN, ARROW BOARD IS PLACED AT THE THE END OF THE TAPER.

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

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

- ① OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- ② LANE MAY BE OPENED WHEN WORKERS ARE NOT PRESENT IN THE WORK AREA.

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



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	155'
30	200'	180'	200'
35	350'	245'	250'
40	350'	320'	305'
45	500'	540'	360'
50	500'	600'	425'
55	500'	660'	495'

END ROAD WORK
G20-2A
48"X24"

**TRAFFIC CONTROL,
SINGLE LEFT LANE
CLOSURE, UNDIVIDED
NON-FREEWAY/EXPRESSWAY**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED _____ /S/ Andrew Heidtke
November 2025 DATE WORK ZONE ENGINEER

FHWA

6

6

SDD 15D20-11C

SDD 15D20-11C

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  SIGN ON TEMPORARY SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  DIRECTION OF TRAFFIC
-  -X-X-X- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
-  WORK AREA
-  CONNECTED ARROW BOARD
-  (S) WZ START LOCATION MARKER
-  (E) WZ END LOCATION MARKER

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45 MPH, USE SDD 15D14.

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

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 REGIONAL TRAFFIC UNIT.

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

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

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 TEMPORARY SUPPORTS.

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 TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

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

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

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

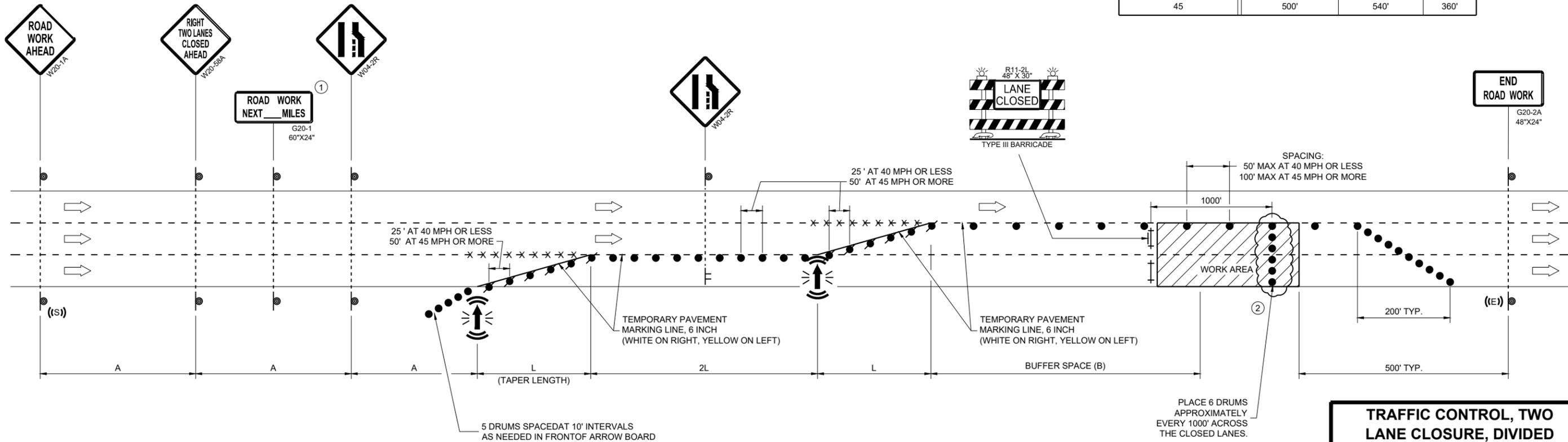
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

- ① OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- ② DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	155'
30	200'	180'	200'
35	350'	245'	250'
40	350'	320'	305'
45	500'	540'	360'

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TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

SDD 15D22-08

SDD 15D22-08

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  DIRECTION OF TRAFFIC
-  CONNECTED ARROW BOARD
-  WORK AREA
- ((S))** WZ START LOCATION MARKER
- ((E))** WZ END LOCATION MARKER

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.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

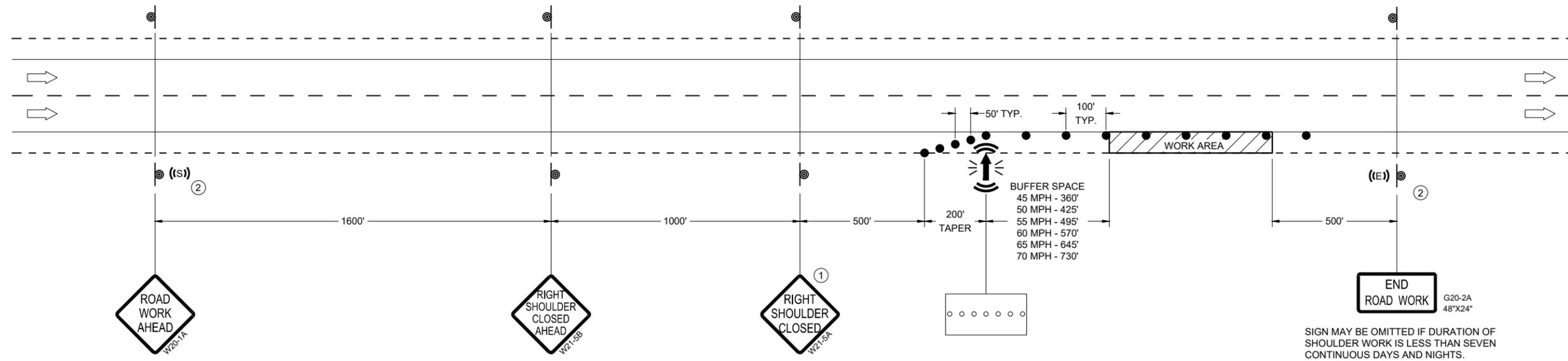
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

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

① FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR THE W21-5A SIGN MAY BE OMITTED.

② IF ALREADY PRESENT WITHIN PROJECT, DO NOT INCLUDE ADDITIONAL DEVICE.



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SDD 15D27-05

SDD 15D27-05

TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2025 DATE	/s/ Andrew Heidtke STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  DIRECTION OF TRAFFIC
-  WORK ZONE

GENERAL NOTES

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 THE REGIONAL TRAFFIC UNIT.

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

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

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

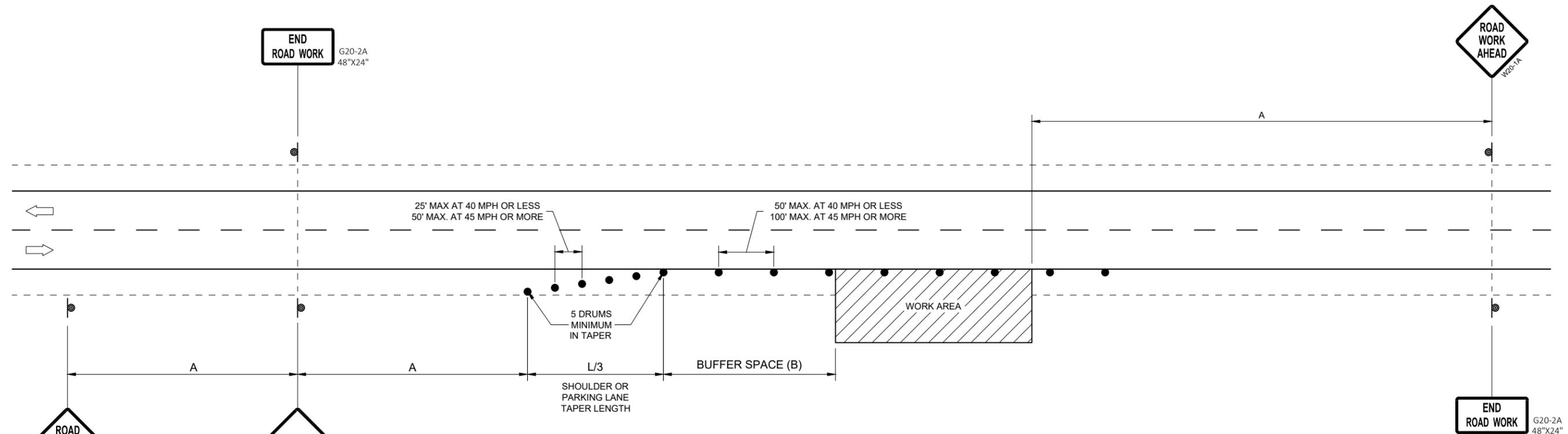
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

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.

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POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

SDD 15D28 - 04

SDD 15D28 - 04

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 /S/ Andrew Heidtke
DATE STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

ALL SIGNS ARE 48"X48" BLACK ON ORANGE UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

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

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

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

ONLY ONE QUADRANT OF TRAFFIC SHALL BE RELEASED AT A TIME.

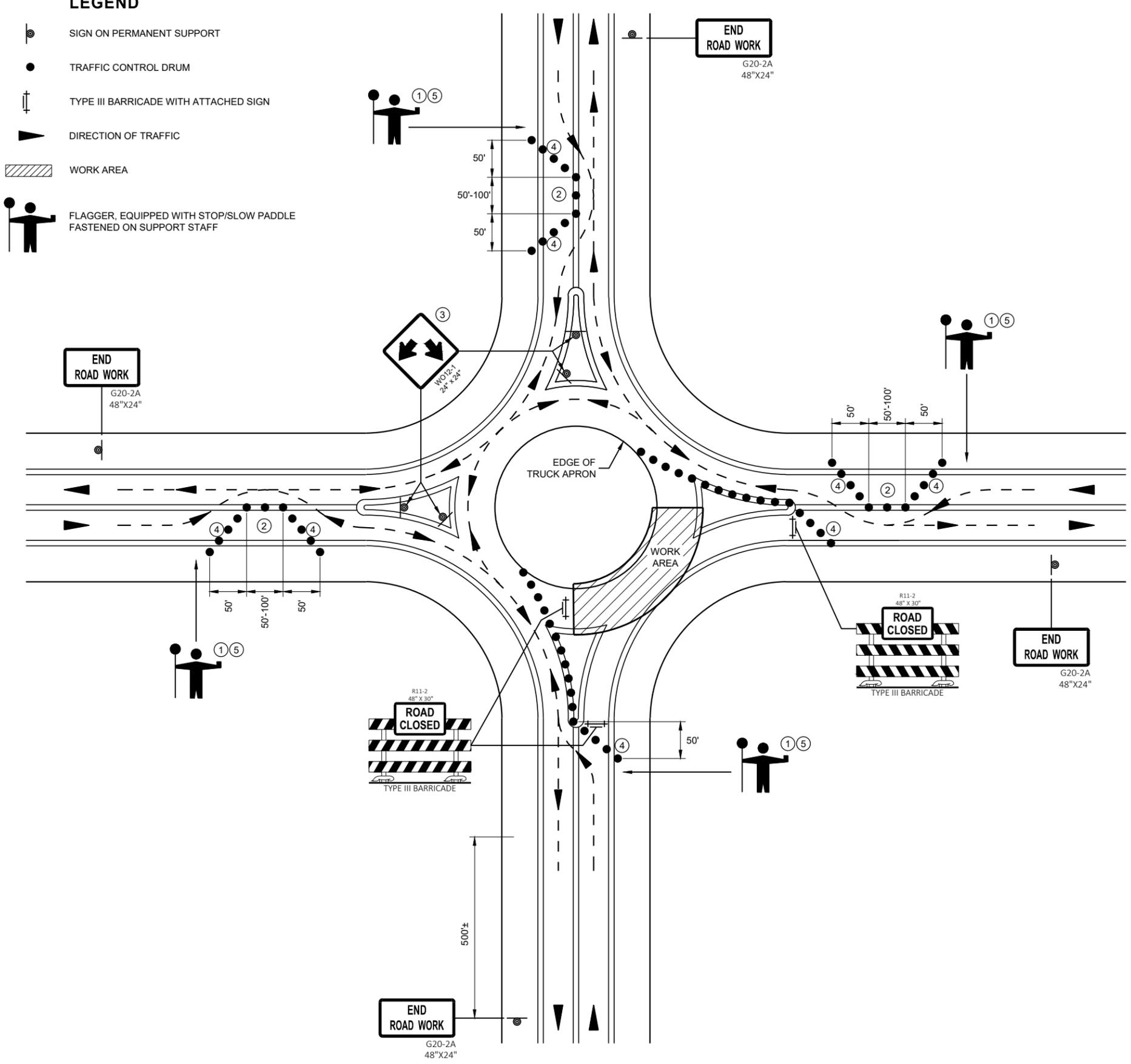
FLAGGERS SHALL CONTROL TRAFFIC ON ALL APPROACHES OF THE ONE-LANE ROUNDABOUT. ONE FLAGGER SHALL BE DESIGNATED LEAD FLAGGER.

NIGHT TIME WORK REQUIRES ADDITIONAL LIGHTING AT FLAGGER STATION(S).

- ① FLAGGERS SHALL BE IN DIRECT RADIO CONTACT AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.
- ② ADJUST CHANNELIZING DEVICES TO ACCOMMODATE FOR TURNING RADIUS OF LARGE VEHICLES AS DIRECTED BY THE ENGINEER.
- ③ GUIDE SIGN WITH ROAD NAMES MAY BE USED IN LIEU OF THE DOUBLE ARROW (WO12-1) SIGN.
- ④ THE TWO-WAY TAPER SHOULD BE 50 FEET USING 5 EQUALLY SPACED DRUMS.
- ⑤ FOLLOW SDD 15C12 FOR FLAGGING AND ADVANCE WARNING.

RECOMMENDED REDUCED DRUM SPACING WITHIN ROUNDABOUT

MPH	DRUM SPACING (FT)
0-40	25
45-55	50



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SDD 15D37 - 03

SDD 15D37 - 03

TRAFFIC CONTROL, FLAGGING OPERATION, ROUNDABOUT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE May 2020 /S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

LEGEND

-  TYPE III BARRICADE WITH ATTACHED SIGN
-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE "A" WARNING LIGHT (FLASHING)
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
-  CONCRETE BARRIER TEMPORARY PRECAST

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 DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS 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 AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

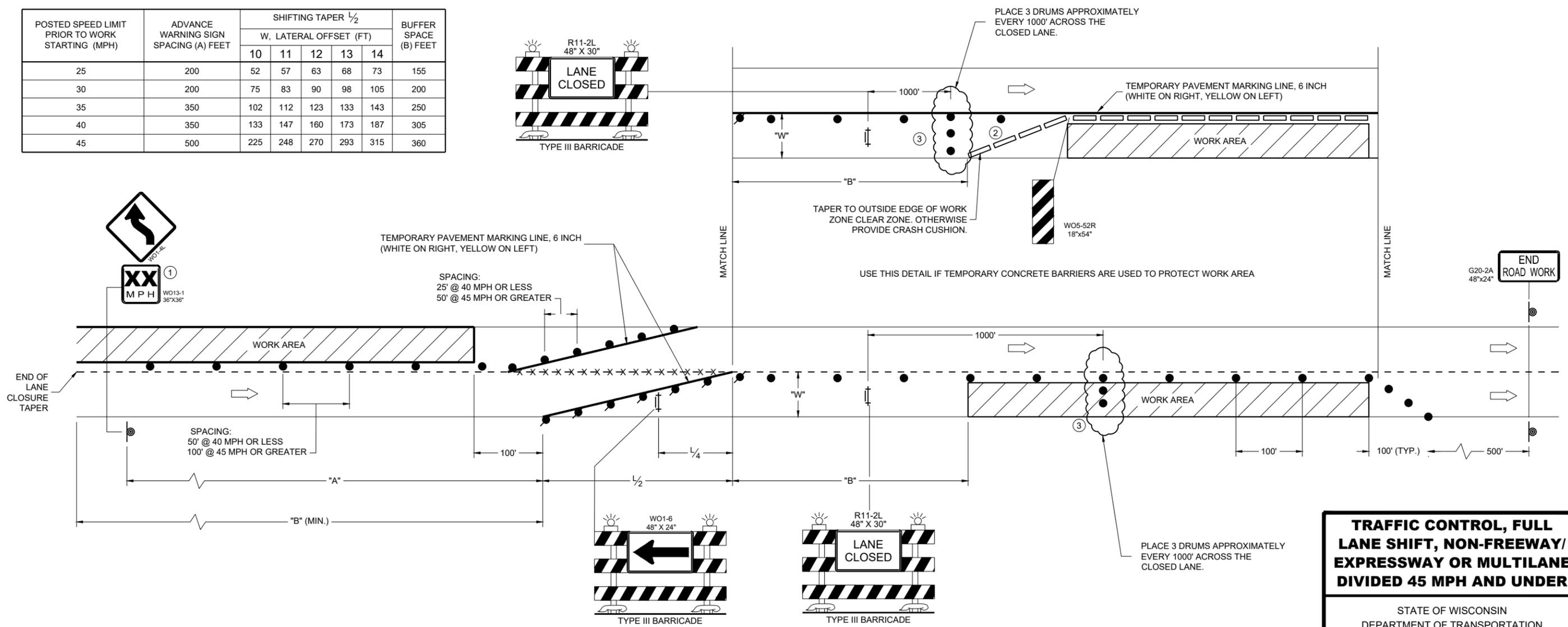
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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 SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT 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.

- ① USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.
- ② BARRIER FLARE RATE: 6:1 @ 40 MPH OR LESS
8:1 @ 45 MPH OR GREATER
- ③ DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER 1/2					BUFFER SPACE (B) FEET
		W, LATERAL OFFSET (FT)					
		10	11	12	13	14	
25	200	52	57	63	68	73	155
30	200	75	83	90	98	105	200
35	350	102	112	123	133	143	250
40	350	133	147	160	173	187	305
45	500	225	248	270	293	315	360



TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

6

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SDD 15D40-07a

SDD 15D40-07a

LEGEND

-  TYPE III BARRICADE WITH ATTACHED SIGN
-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE "A" WARNING LIGHT (FLASHING)
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
-  CONCRETE BARRIER TEMPORARY PRECAST

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 DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS 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 AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

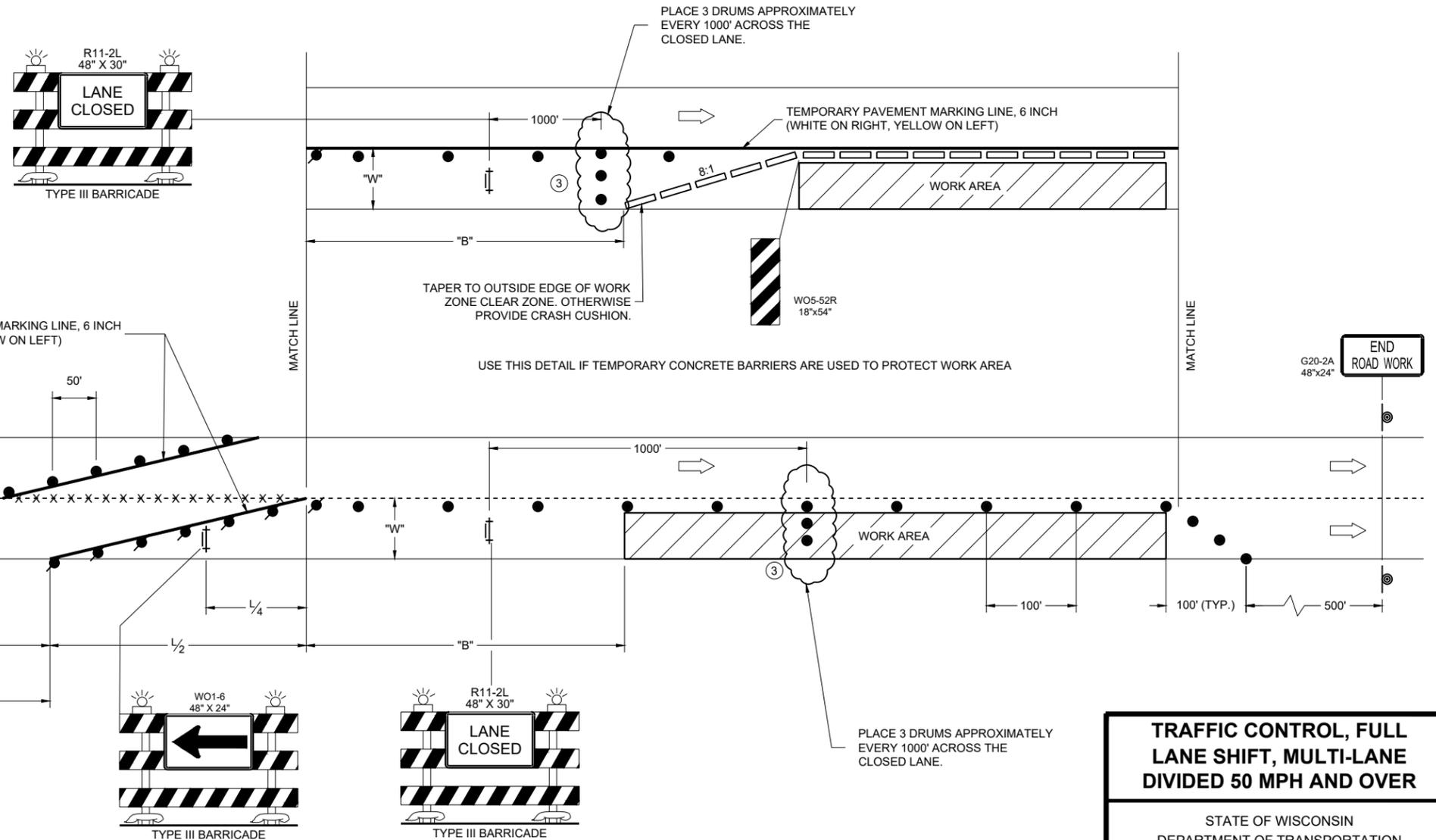
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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 SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT 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 THE LENGTH OF 1/2 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.

- ① USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.
- ② IF BEGINNING OF LANE SHIFT IS 1200' OF LESS FROM THE END OF THE LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE LANE CLOSURE TAPER.
- ③ DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER 1/2					BUFFER SPACE (B) FEET
	W, LATERAL OFFSET (FT)	10	11	12	13	
50	250	275	300	325	350	425
55	275	303	330	358	385	495
60	300	330	360	390	420	570
65	325	358	390	423	455	645
70	350	385	420	455	490	730



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SDD 15D40-07b

SDD 15D40-07b

TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER

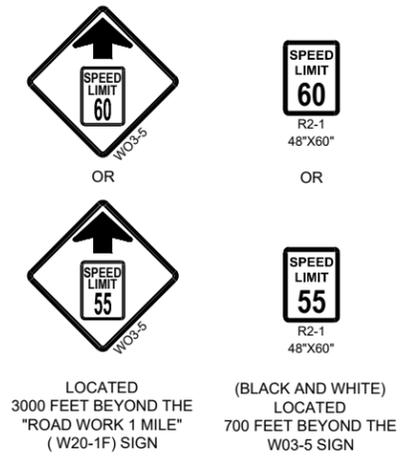
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

LEGEND

-  TYPE III BARRICADE WITH ATTACHED SIGN
-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  DIRECTION OF TRAFFIC
-  CONCRETE BARRIER TEMPORARY PRECAST
-  TYPE "A" WARNING LIGHT (FLASHING)
-  WORK AREA



IF THE REGULATORY SPEED HAS BEEN REDUCED, A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 3 MILES.

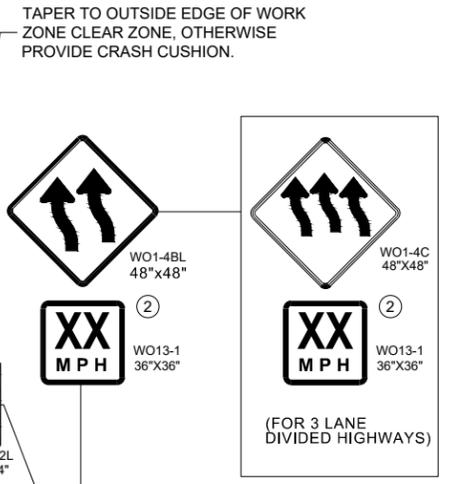
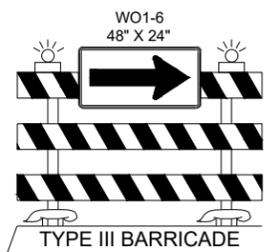
GENERAL NOTES

- 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 DESIRABLE) DISTANCE TO EXISTING SIGNS.
- THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.
- ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.
- "WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
- ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
- 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 AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.
- 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 SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT 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.

FULL SHIFT

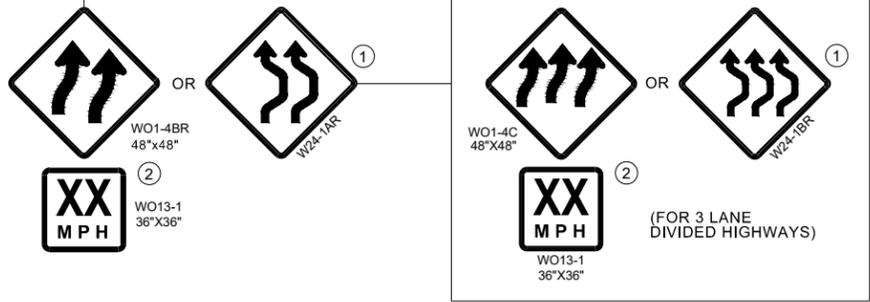
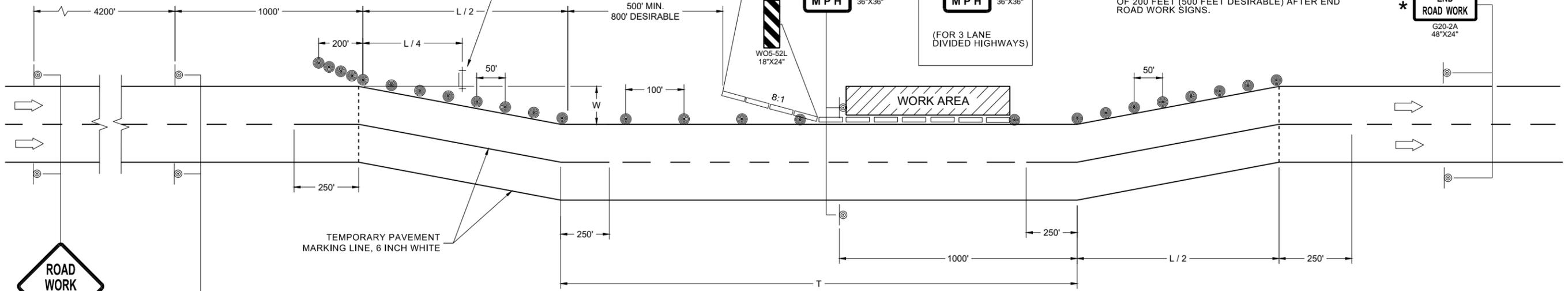
SHIFTING TAPER L/2

POSTED SPEED (MPH)	W, LATERAL OFFSET (FT)							
	10	11	12	13	14	15	16	16
45	225	248	270	293	315	338	360	360
50	250	275	300	325	350	375	400	400
55	275	303	330	358	385	413	440	440
60	300	330	360	390	420	450	480	480
65	325	358	390	423	455	488	520	520
70	350	385	420	455	490	525	560	560



- ① USE ONLY WHEN T < 600', OMIT W01-4C.
- ② IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

* INCLUDE RESUME SPEED LIMIT SIGN A MINIMUM OF 200 FEET (500 FEET DESIRABLE) AFTER END ROAD WORK SIGNS.



PARTIAL SHIFT

SHIFTING TAPER L/2

POSTED SPEED PRIOR TO WORK STARTING (MPH)	W, LATERAL OFFSET (FT)								
	1	2	3	4	5	6	7	8	9
45	23	45	68	90	113	135	158	180	203
50	25	50	75	100	125	150	175	200	225
55	28	55	83	110	138	165	193	220	248
60	30	60	90	120	150	180	210	240	270
65	33	65	98	130	163	195	228	260	293
70	35	70	105	140	175	210	245	280	315

**TRAFFIC CONTROL
MULTIPLE LANE SHIFT
MULTILANE DIVIDED ROAD**

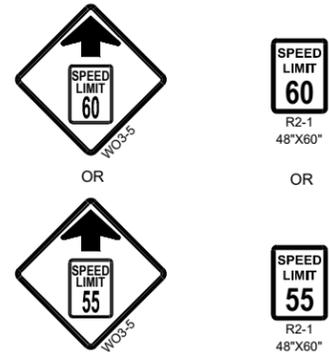
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 /S/ Andrew Heidtke
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- TEMPORARY TAPE RUMBLE STRIPS (VARIABLE SPACING)

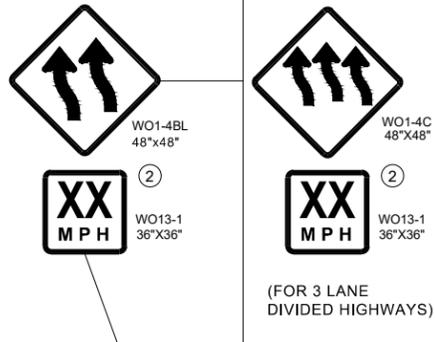
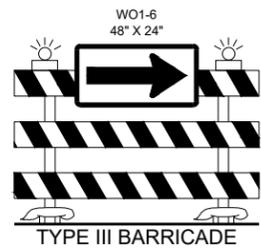


IF THE REGULATORY SPEED HAS BEEN REDUCED, A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 3 MILES.

LOCATED 3000 FEET BEYOND THE "ROAD WORK 1 MILE" (W20-1F) SIGN
(BLACK AND WHITE) LOCATED 700 FEET BEYOND THE W03-5 SIGN

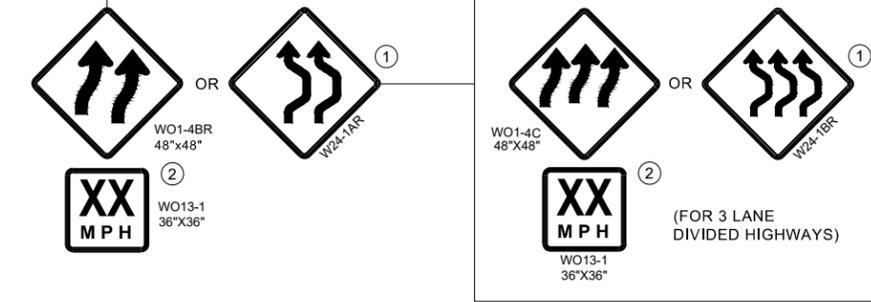
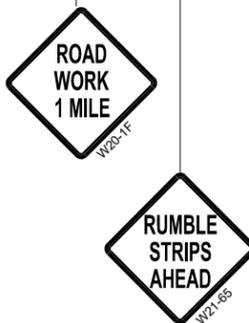
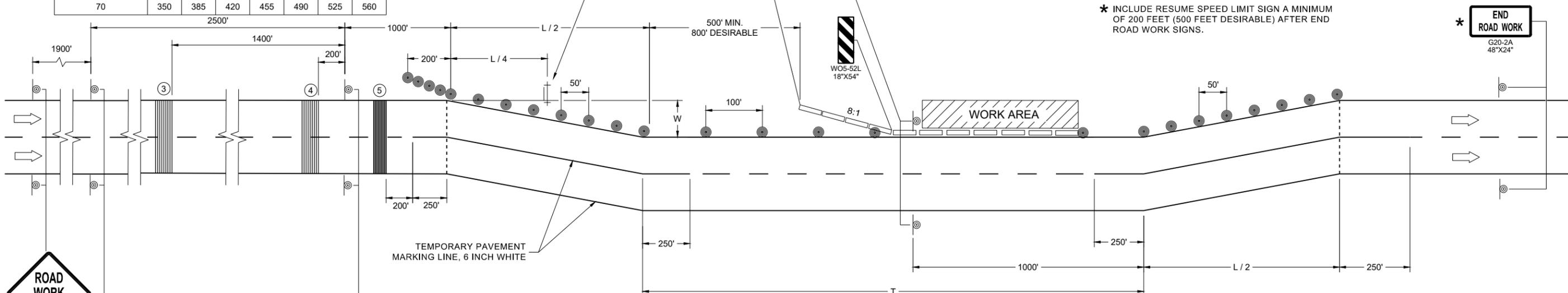
TAPER TO OUTSIDE EDGE OF WORK ZONE CLEAR ZONE, OTHERWISE PROVIDE CRASH CUSHION.

FULL SHIFT							
SHIFTING TAPER L/2							
POSTED SPEED (MPH)	W, LATERAL OFFSET (FT)						
	10	11	12	13	14	15	16
45	225	248	270	293	315	338	360
50	250	275	300	325	350	375	400
55	275	303	330	358	385	413	440
60	300	330	360	390	420	450	480
65	325	358	390	423	455	488	520
70	350	385	420	455	490	525	560



- ① USE ONLY WHEN T < 600', OMIT W01-4C.
- ② IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.
- ③ NINE RUMBLE STRIPS WITH 10 FOOT SPACING BETWEEN EACH INDIVIDUAL STRIP
- ④ NINE RUMBLE STRIPS WITH 5 FOOT SPACING BETWEEN EACH INDIVIDUAL STRIP
- ⑤ NINE RUMBLE STRIPS WITH 1.5 FOOT SPACING BETWEEN EACH INDIVIDUAL STRIP

* INCLUDE RESUME SPEED LIMIT SIGN A MINIMUM OF 200 FEET (500 FEET DESIRABLE) AFTER END ROAD WORK SIGNS.



PARTIAL SHIFT									
POSTED SPEED PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L/2								
	W, LATERAL OFFSET (FT)								
	1	2	3	4	5	6	7	8	9
45	23	45	68	90	113	135	158	180	203
50	25	50	75	100	125	150	175	200	225
55	28	55	83	110	138	165	193	220	248
60	30	60	90	120	150	180	210	240	270
65	33	65	98	130	163	195	228	260	293
70	35	70	105	140	175	210	245	280	315

TRAFFIC CONTROL MULTIPLE LANE SHIFT DIVIDED ROAD TEMPORARY TAPE RUMBLE STRIPS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 /S/ Andrew Heidtke
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

SDD 15D41-05b

SDD 15D41-05b

LEGEND

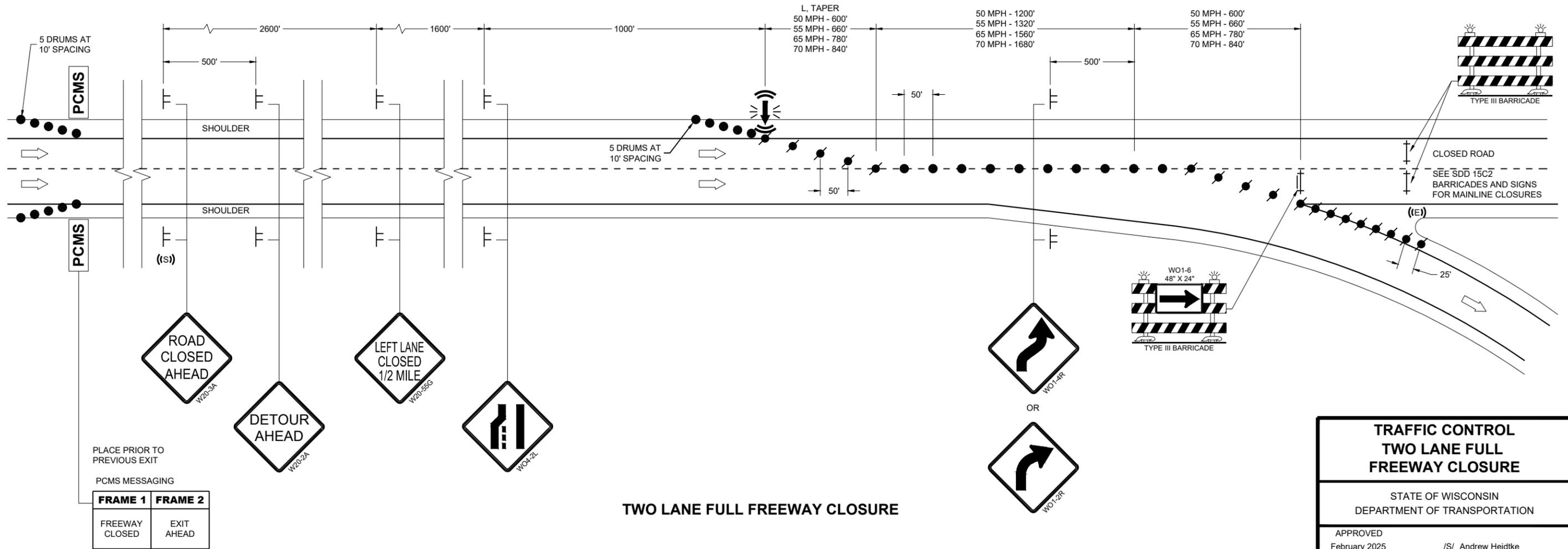
-  SIGN ON TEMPORARY SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  REMOVING PAVEMENT MARKINGS
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  CONNECTED ARROW BOARD
-  WZ START LOCATION MARKER
-  WZ END LOCATION MARKER

GENERAL NOTES

- RIGHT CLOSURE SHOWN (LEFT LANE CLOSURE SIMILAR)
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS PART OF A DAYTIME ONLY OPERATION.
- ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.
- "WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.
- WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROL SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND / OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
- PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1000' ACROSS EACH CLOSED LANE TO HELP REINFORCE THE DRUM LINE.
- CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.
- REFER TO DETOUR ROUTES FOR TRAFFIC GUIDANCE SIGNING.
- ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

6

6



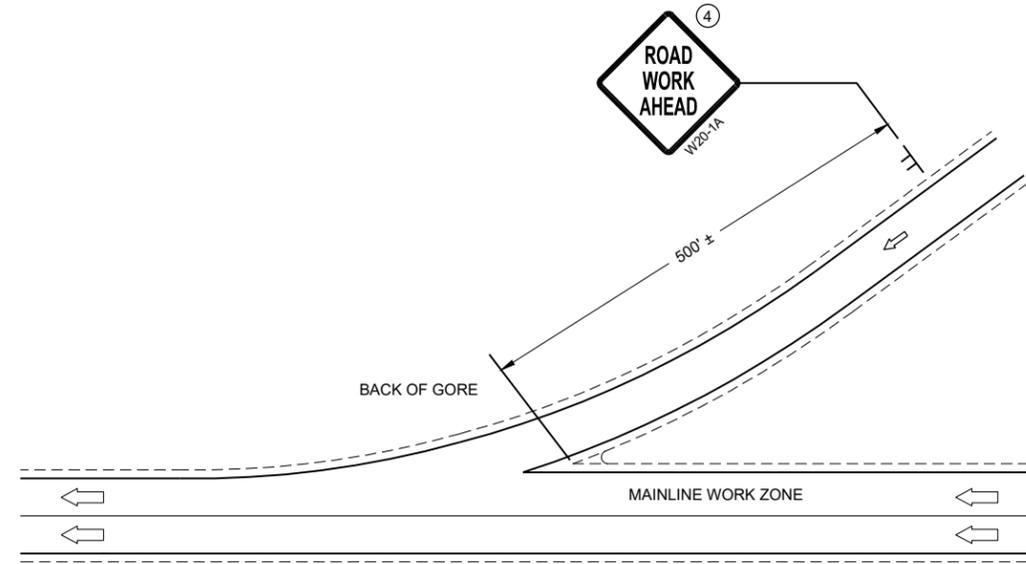
SDD 15D42-04

SDD 15D42-04

TRAFFIC CONTROL TWO LANE FULL FREEWAY CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2025 DATE	/S/ Andrew Heidtke
FHWA	

LEGEND

- V1 SHADOW VEHICLE 1
- V2 SHADOW VEHICLE 2
- V3 ADVANCE WARNING TRUCK
- TRAFFIC CONTROL DRUM
- ◻ TRUCK MOUNTED ATTENUATOR (TMA)
- ⊥ SIGN ON TEMPORARY SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ◻ FLASHING ARROW PANEL (MERGE)
- ◻ FLASHING ARROW PANEL (CAUTION)
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- ▨ WORK AREA



GENERAL NOTES

SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.

MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

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

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

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

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

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

USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

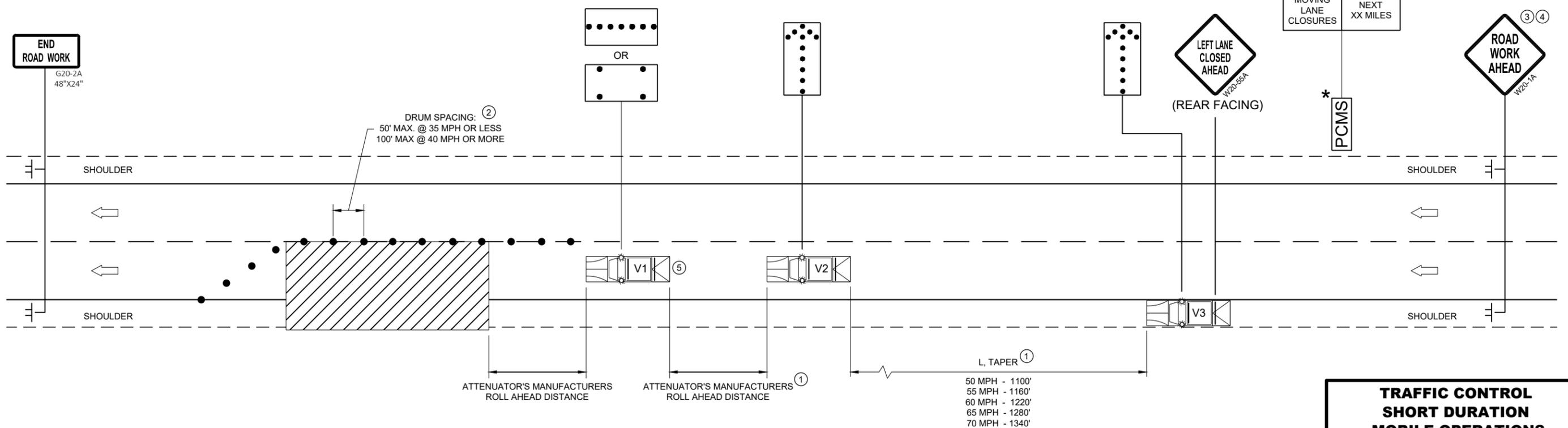
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

- ① DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- ② DRUMS ARE TO BE USED FOR BRIDGE DECK SEALING AND OTHER PROJECTS THAT REQUIRE DELINEATION.
- ③ WITHIN 5 MILES, RELOCATE SIGNS AS WORK PROGRESSES AND NECESSARY OR AS DIRECTED BY THE ENGINEER.
- ④ SIGN NOT REQUIRED IF MOVING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- ⑤ SHADOW VEHICLE 1 (V1) IS OPTIONAL

* PCMS OPTIONAL

PCMS MESSAGING

FRAME 1	FRAME 2
MOVING LANE CLOSURES	NEXT XX MILES



**TRAFFIC CONTROL
SHORT DURATION
MOBILE OPERATIONS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2021 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

6

6

SDD 15D43 - 02

SDD 15D43 - 02

LEGEND

-  SIGN ON TEMPORARY SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  REMOVING PAVEMENT MARKINGS
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  CONNECTED ARROW BOARD
-  WZ START LOCATION MARKER
-  WZ END LOCATION MARKER

GENERAL NOTES

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

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

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

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

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

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

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 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

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

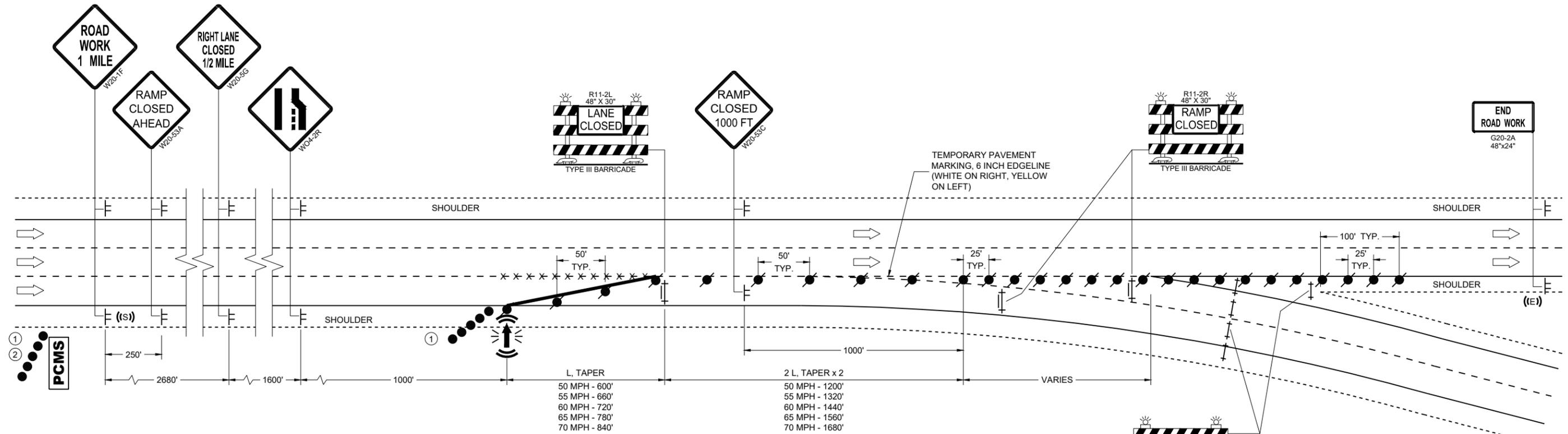
REMOVE ALL ARROW BOARDS AND DEVICES BEYOND THE SHOULDER WHEN THE WORK IS NOT IN PROGRESS.

REFER TO SDD 15C2 FOR SETTING DETOUR SIGNAGE.

ADD FREEWAY SHIELD AND DIRECTION IF APPLICABLE. COVER EXISTING RAMP AND LANE SIGNS IF APPLICABLE.

① 5 DRUMS SPACED AT 10 FOOT INTERVALS.

② DURING THE PRE-WARNING PERIOD, PLACE THE PCMS AT THE SYSTEM RAMP THAT IS TO BE CLOSED. DURING CLOSURE PERIOD, PLACE PCMS OR FMS AT LAST AVAILABLE EXIT IN ADVANCE OF SYSTEM RAMP CLOSURE. IF DYNAMIC MESSAGE SIGNS (DMS) ARE AVAILABLE, COORDINATE POTENTIAL SIGN MESSAGES WITH THE TRAFFIC MANAGEMENT CENTER (TMC).



RAMP CLOSED BEGINNING XXX-XX
G20-58

PCMS MESSAGING	
ONE WEEK IN ADVANCE OF CLOSURE:	
FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX
DURING CLOSURE:	
FRAME 1	FRAME 2
HWY XX RAMP CLOSED	USE ALT ROUTE

SEE SDD 15C2 (SHEET "b"), DETAIL "D" "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" PLACE BARRICADES TO FULLY SEAL OFF ROAD

TRAFFIC CONTROL, SYSTEM RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

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SDD 15D49-05

SDD 15D49-05

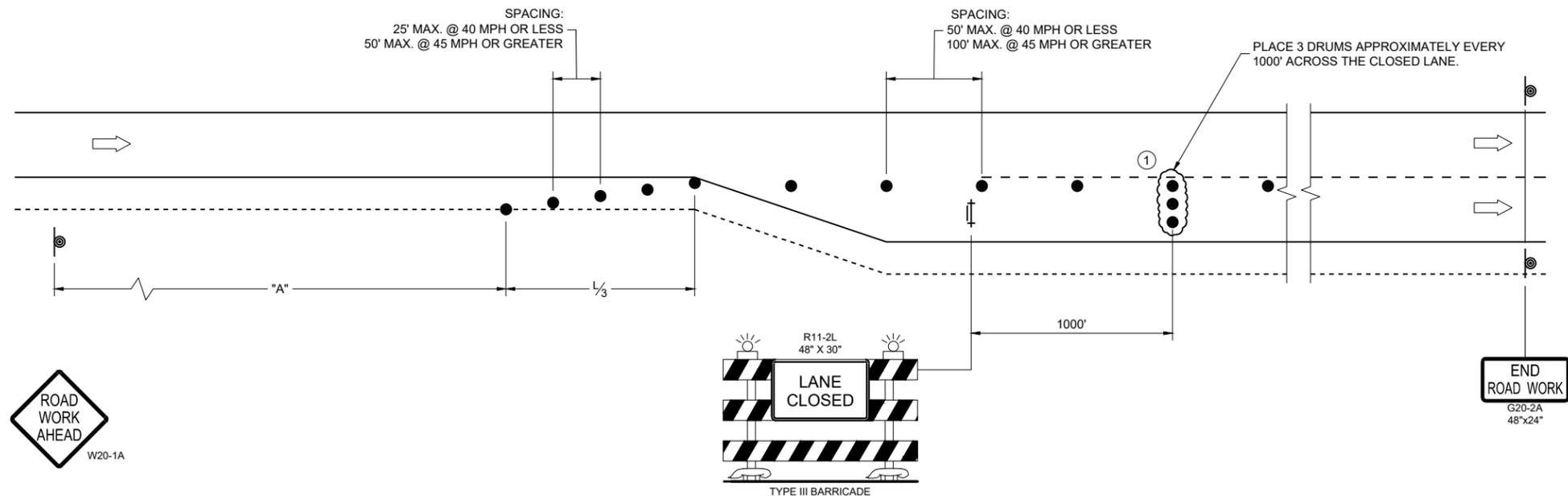
LEGEND

-  TYPE III BARRICADE WITH ATTACHED SIGN
-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE "A" WARNING LIGHT (FLASHING)
-  DIRECTION OF TRAFFIC
-  WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER $L/2$					
		W, LATERAL OFFSET (FT)					
		3	4	5	6	7	8
25	200	10	14	17	21	24	28
30	200	15	20	25	30	35	40
35	350	20	27	34	40	47	54
40	350	26	35	44	53	62	70
45	500	45	59	74	89	104	119
50	500	50	66	83	99	116	132
55	500	54	73	91	109	127	145

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"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.
- "WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
- ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
- CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.
- SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.
- W20-1 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 WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.
- ① DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



6

6

SDD 15D50-04a

SDD 15D50-04a

TRAFFIC CONTROL ADDED LANE CLOSURE WITHOUT LANE SHIFT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2025 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

LEGEND

-  TYPE III BARRICADE WITH ATTACHED SIGN
-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE "A" WARNING LIGHT (FLASHING)
-  DIRECTION OF TRAFFIC
-  WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER (L/2) FEET
25	200	60
30	200	90
35	350	120
40	350	160
45	500	270
50	500	300
55	500	330

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"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

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

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

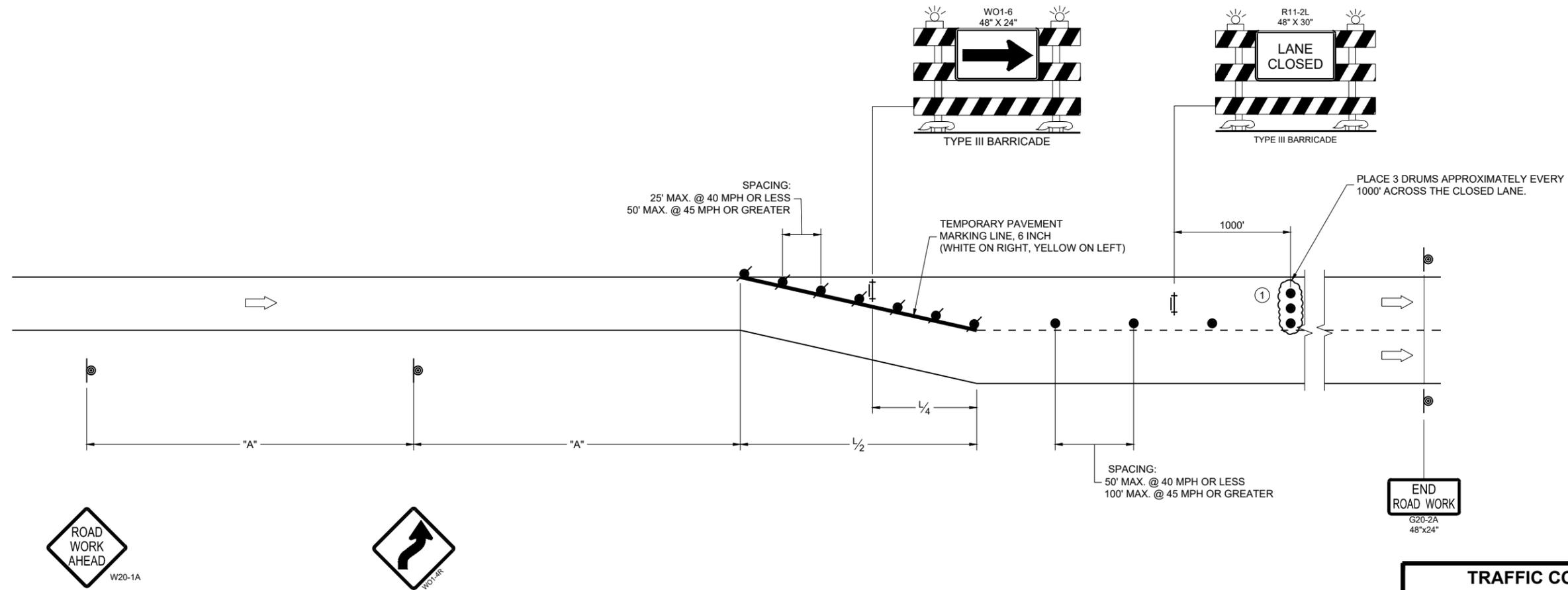
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

W20-1 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 WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.

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

① DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



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SDD 15D50-04b

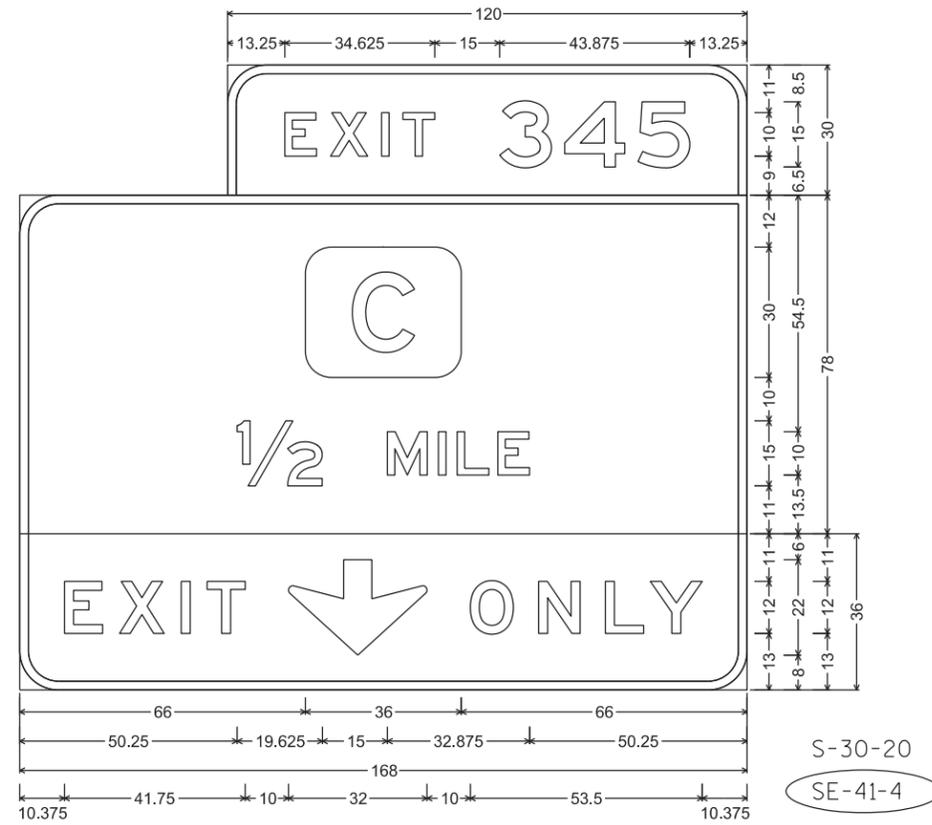
SDD 15D50-04b

**TRAFFIC CONTROL,
ADDED LANE CLOSURE
WITH LANE SHIFT**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

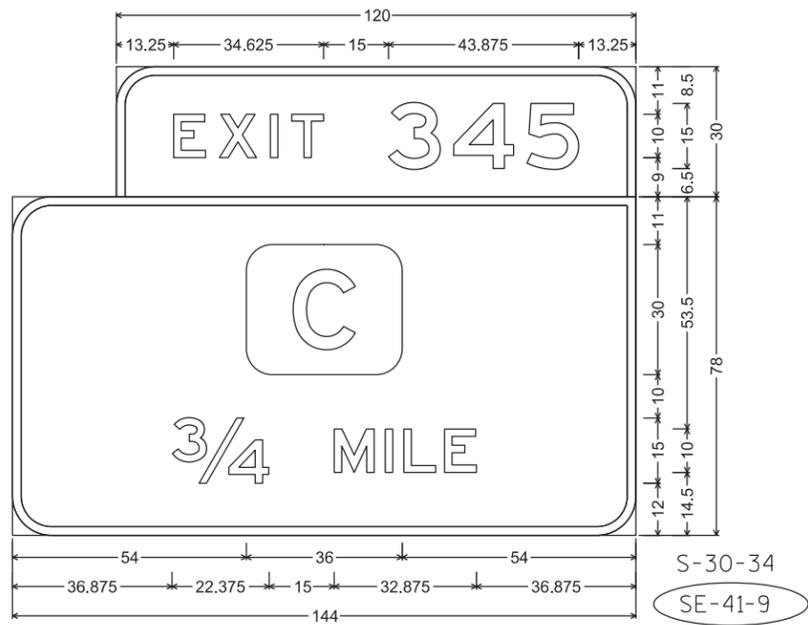
APPROVED _____
February 2025 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA



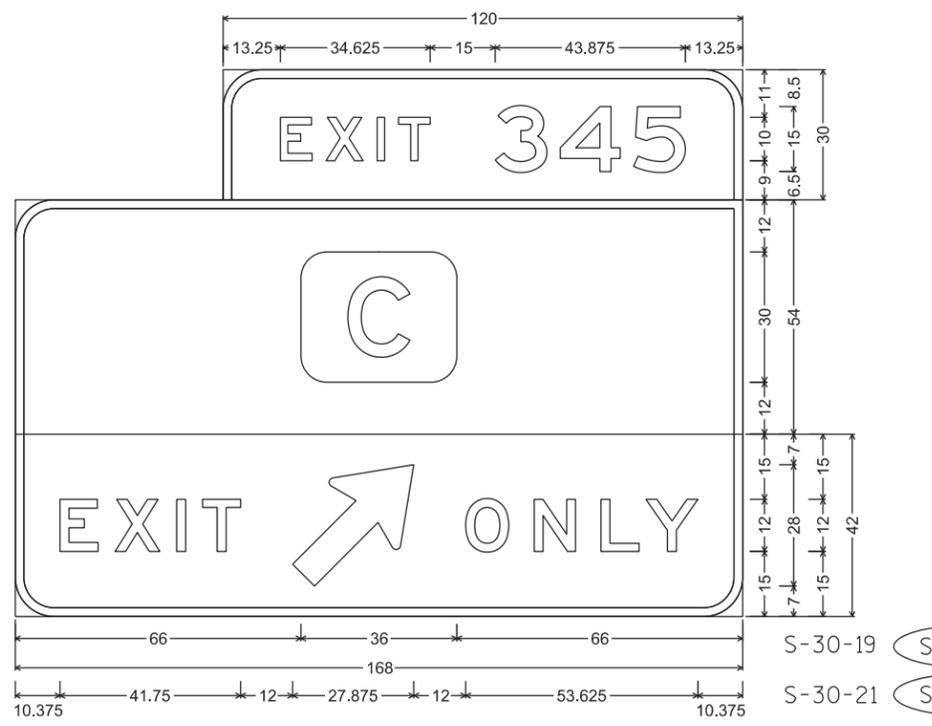
E1-5P; 9.000" Radius, 2.000" Border
 E6-51; 9.000" Radius, 2.000" Border
 E11-1; 9.000" Radius, 2.000" Border, Black on Yellow

S-30-20
 SE-41-4



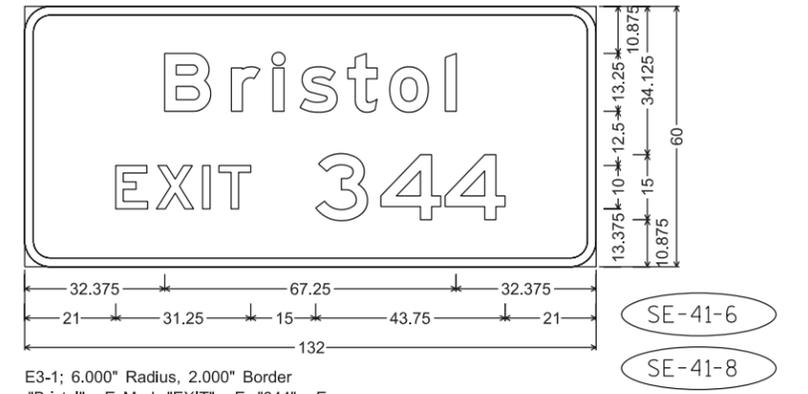
E1-5P; 9.000" Radius, 2.000" Border
 E6-51; 9.000" Radius, 2.000" Border

S-30-34
 SE-41-9



E1-5P; 9.000" Radius, 2.000" Border
 E6-51; 9.000" Radius, 2.000" Border
 E11-1D; 9.000" Radius, 2.000" Border, Black on Yellow

S-30-19 SE-41-5
 S-30-21 SE-41-10



E3-1; 6.000" Radius, 2.000" Border
 "Bristol", E Mod; "EXIT", E; "344", E;

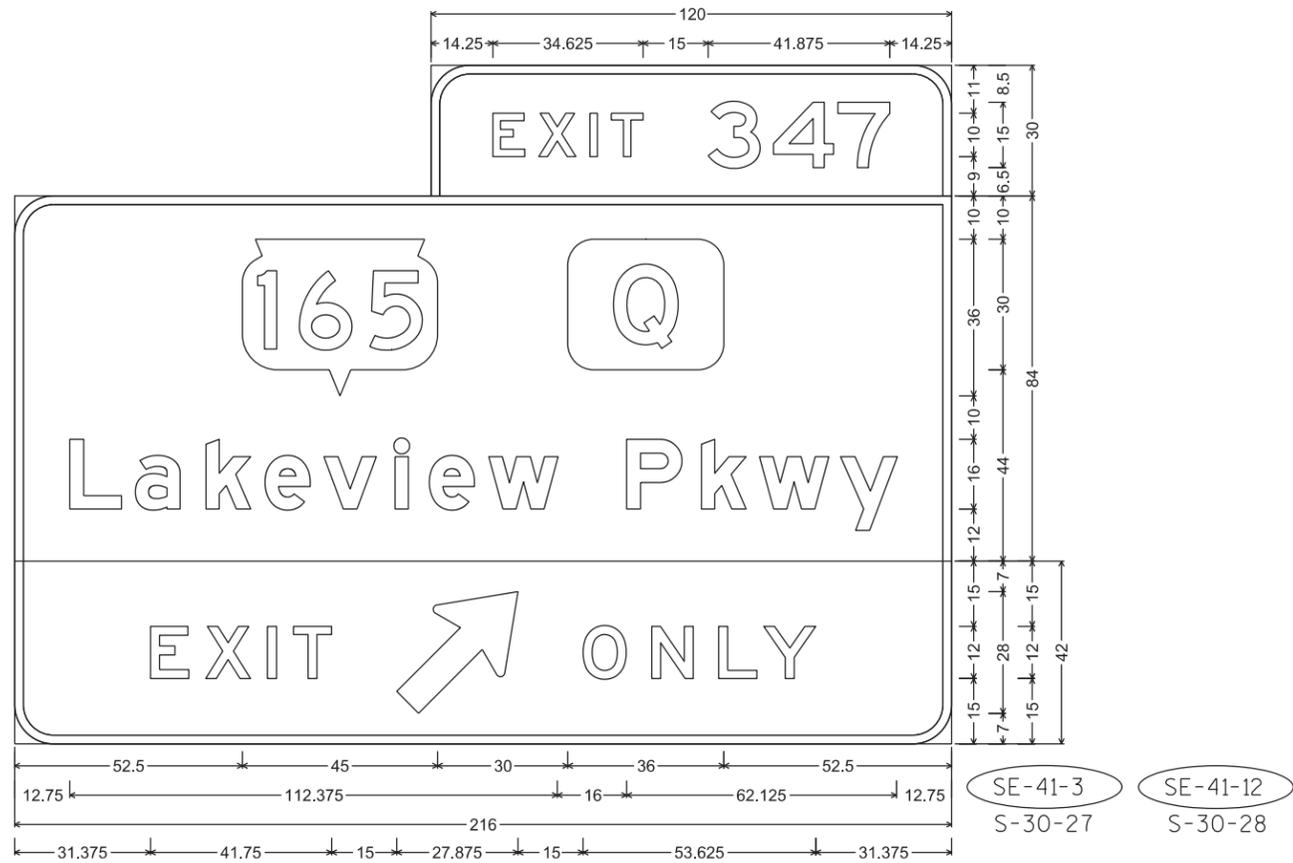
SE-41-6
 SE-41-8

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
 Background - Green
 Message - White
3. Message Series - E Modified except all CAP words Series E
4. Exit Only Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message

7

7



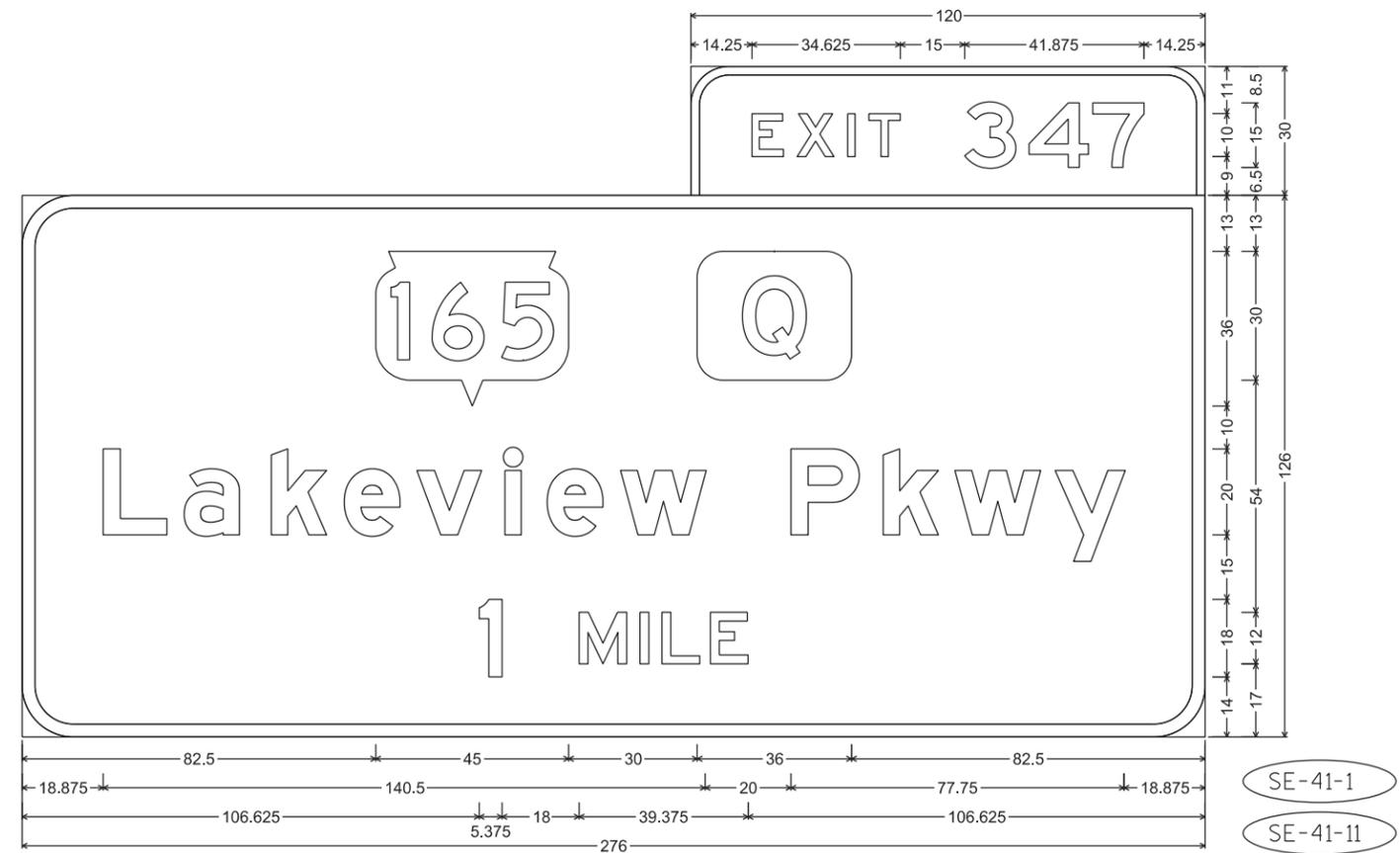
E1-5P; 9.000" Radius, 2.000" Border
 E6-1; 9.000" Radius, 2.000" Border
 E11-1D; 9.000" Radius, 2.000" Border, Black on Yellow

SE-41-3
S-30-27

SE-41-12
S-30-28

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E
4. Exit Only Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message

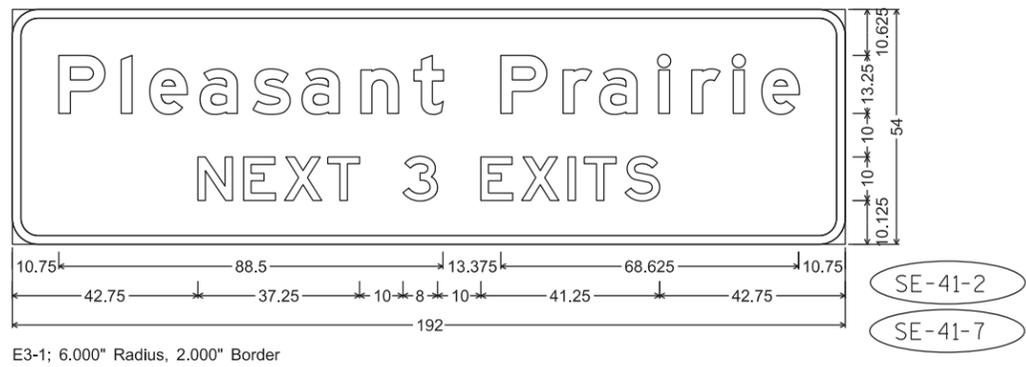


E1-5P; 9.000" Radius, 2.000" Border
 E1-1A; 12.000" Radius, 3.000" Border

SE-41-1
SE-41-11

7

7

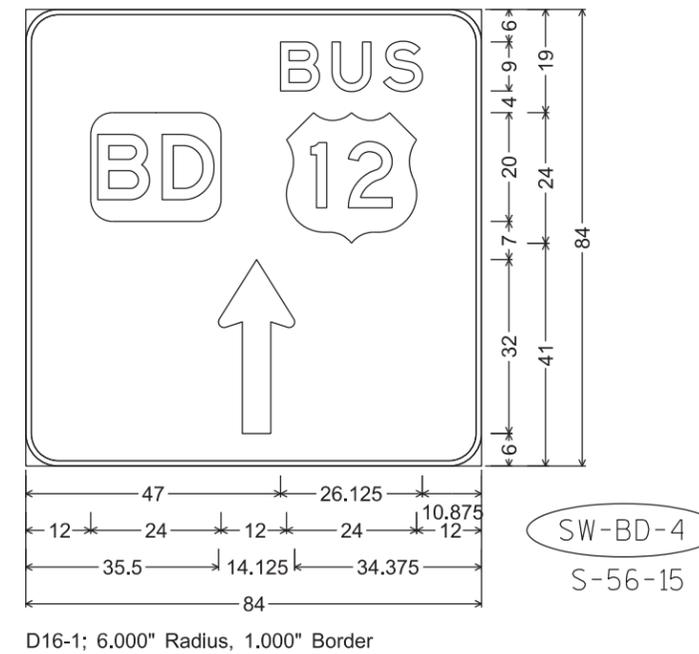
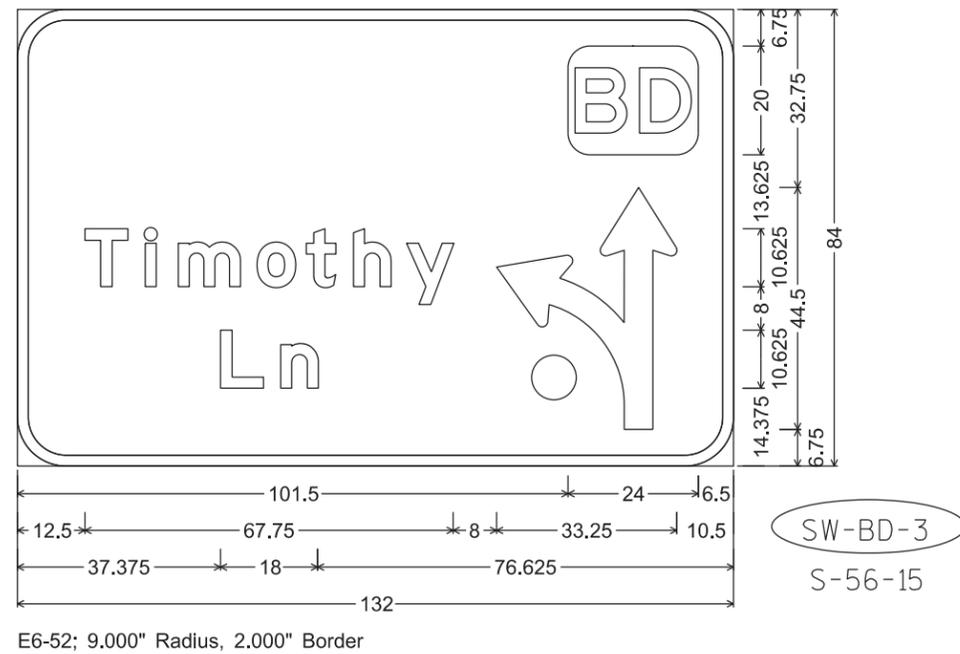
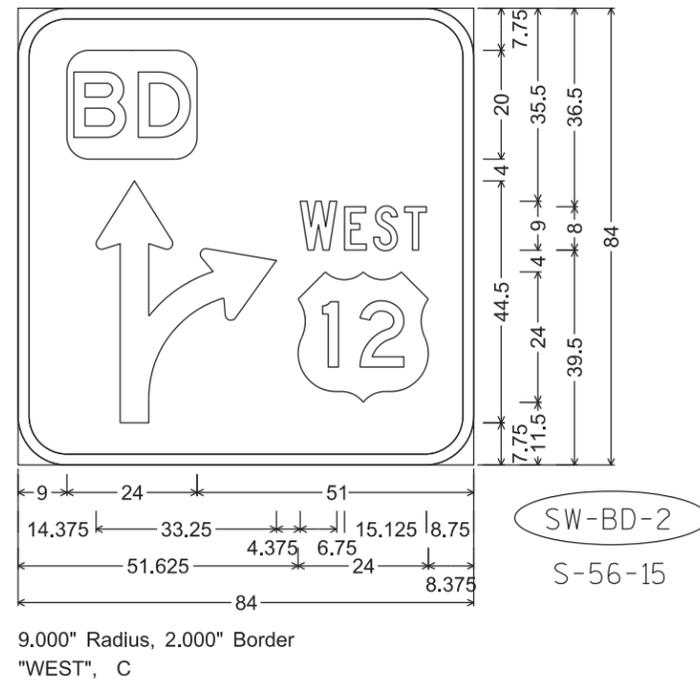
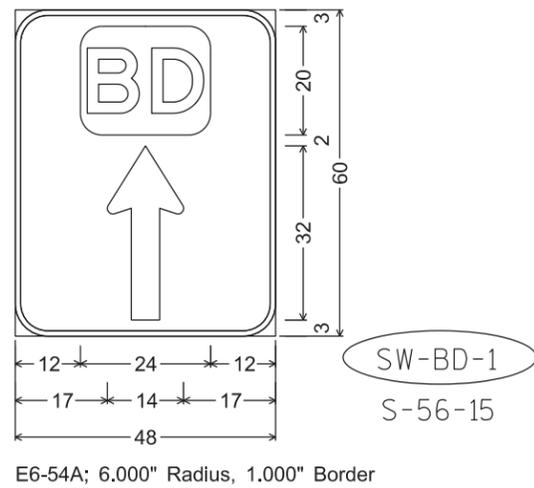


E3-1; 6.000" Radius, 2.000" Border

SE-41-2
SE-41-7

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
 - Background - Green
 - Message - White
3. Message Series - E Modified except all CAP words Series E or as noted.

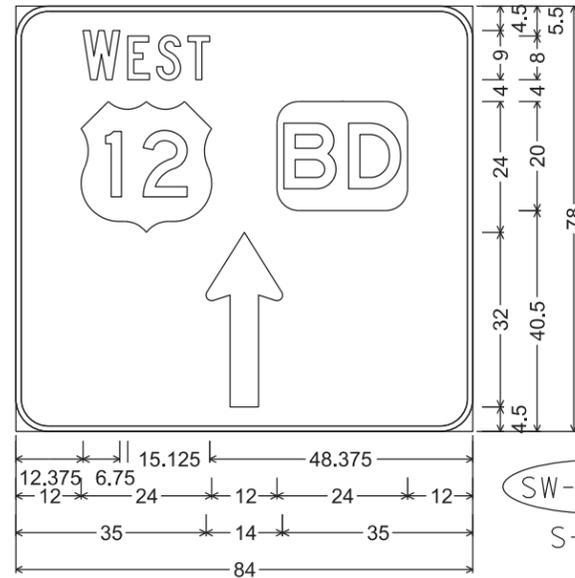


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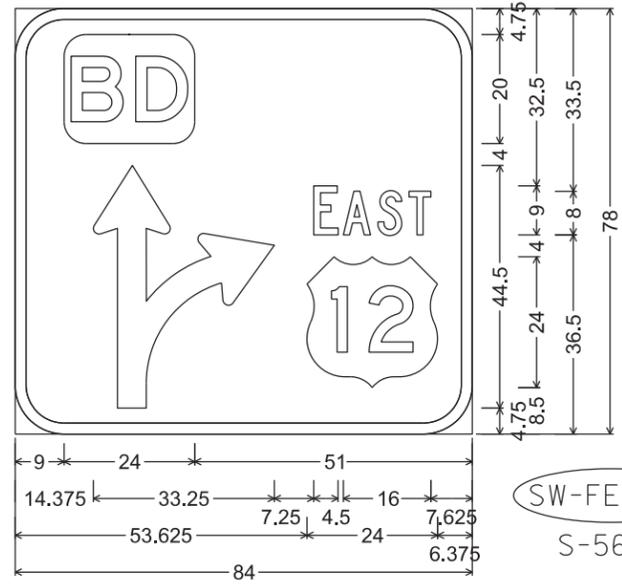
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E or as noted.



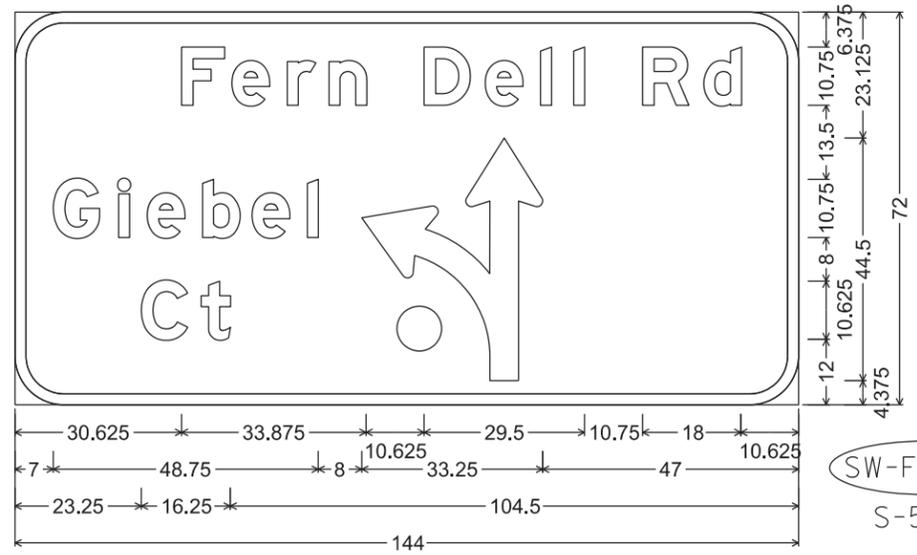
SW-FERN-1
S-56-17

E6-54A; 6.000" Radius, 1.000" Border
"WEST", C



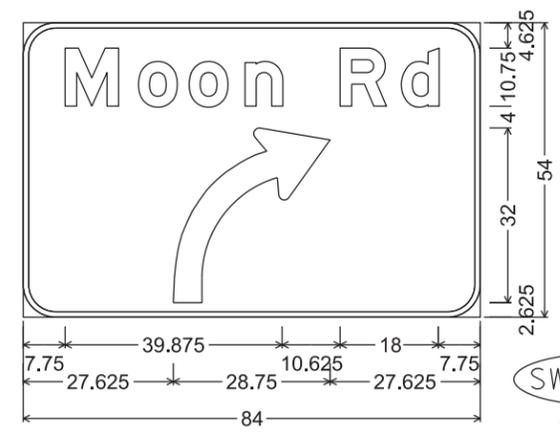
SW-FERN-2
S-56-17

E6-53; 9.000" Radius, 2.000" Border
"EAST", C



SW-FERN-3
S-56-17

E6-52; 9.000" Radius, 2.000" Border



SW-FERN-4
S-56-17

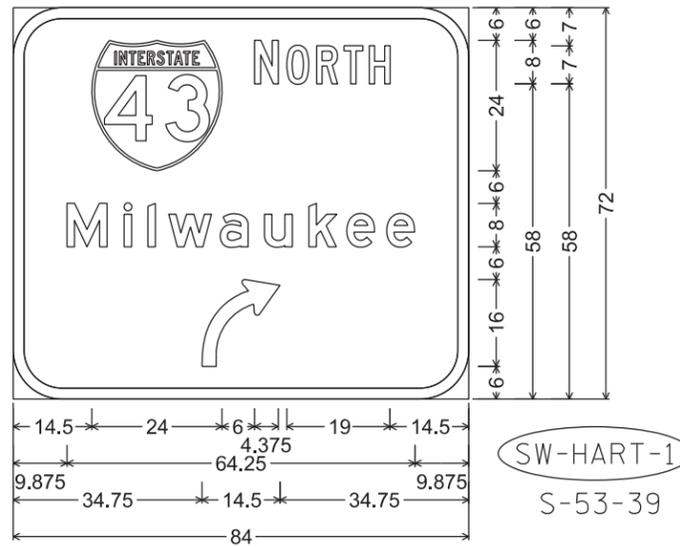
E6-54; 6.000" Radius, 1.000" Border

7

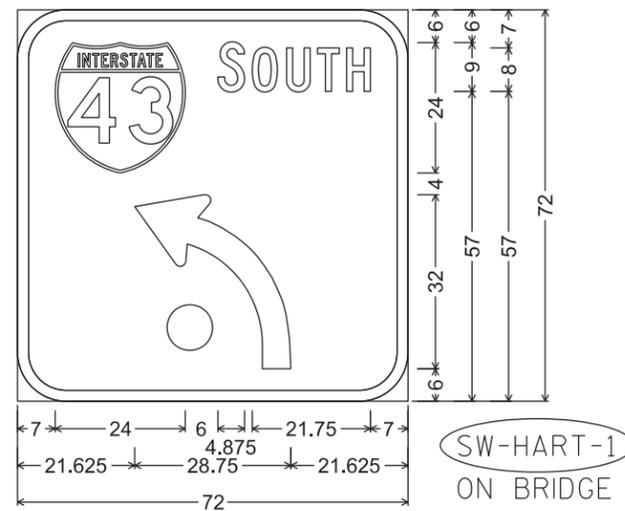
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NOTES

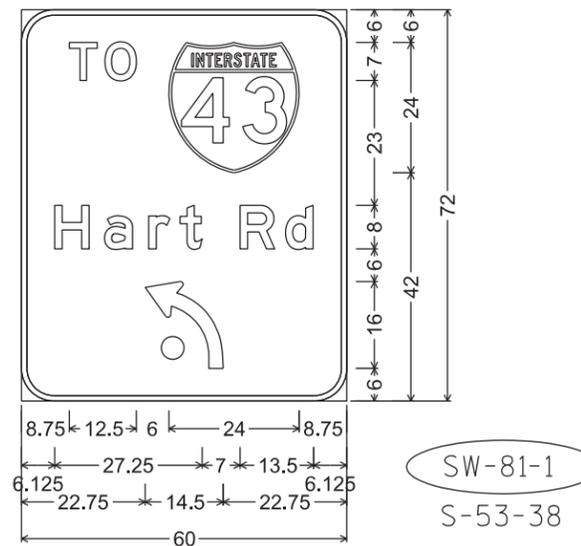
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E or as noted.



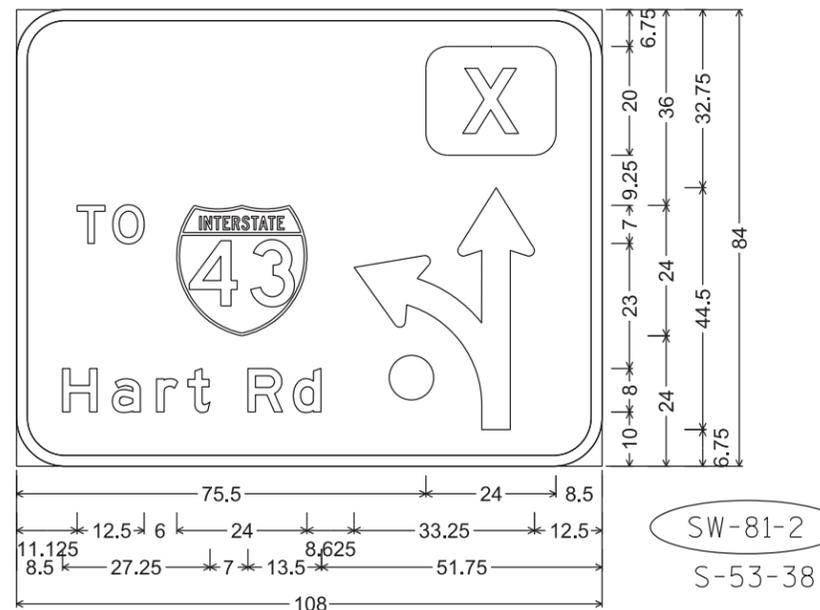
E6-54R; 9.000" Radius, 2.000" Border
"NORTH", C



E6-54; 9.000" Radius, 2.000" Border
"SOUTH", C



E6-54R; 6.000" Radius, 1.000" Border
"TO", E; "Hart Rd", E



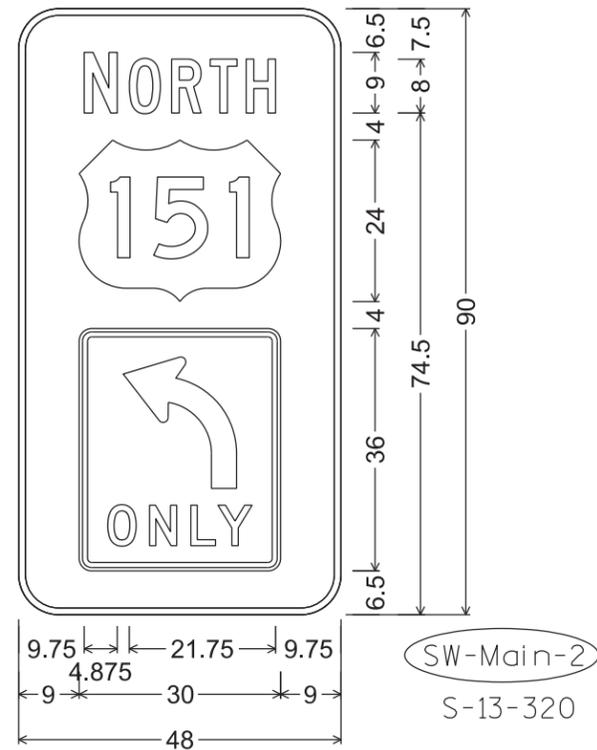
E6-52; 9.000" Radius, 2.000" Border
"TO", E; "Hart Rd", E

7

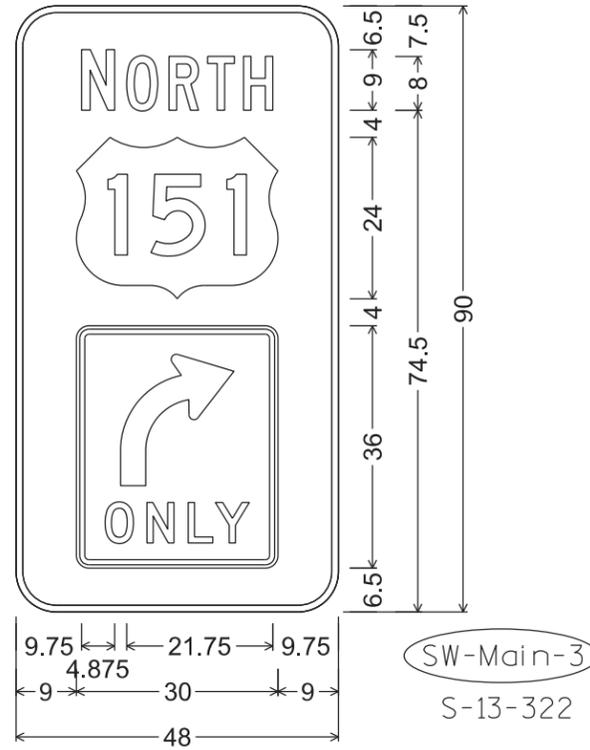
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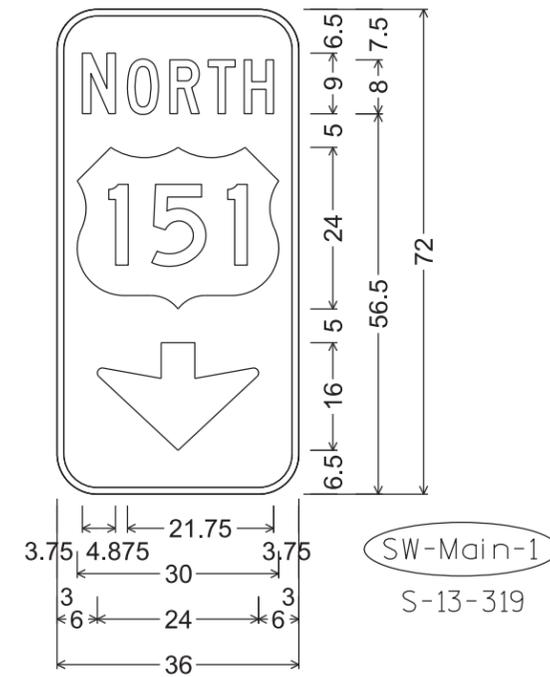
1. All Signs Type II - Type SH Reflective
2. Color:
Background - Green or as noted
Message - White or as noted
3. Message Series - C or as noted



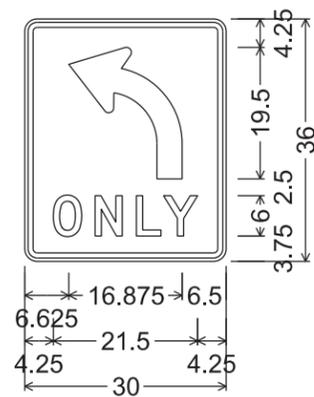
D16-1; 6.000" Radius, 1.000" Border



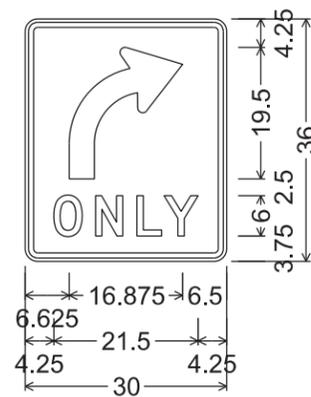
D16-1; 6.000" Radius, 1.000" Border



D16-1; 6.000" Radius, 1.000" Border



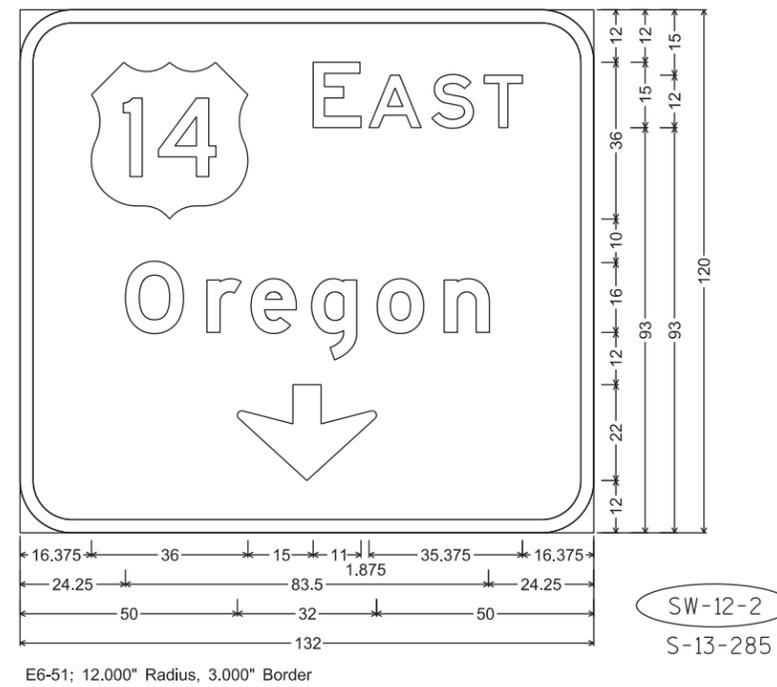
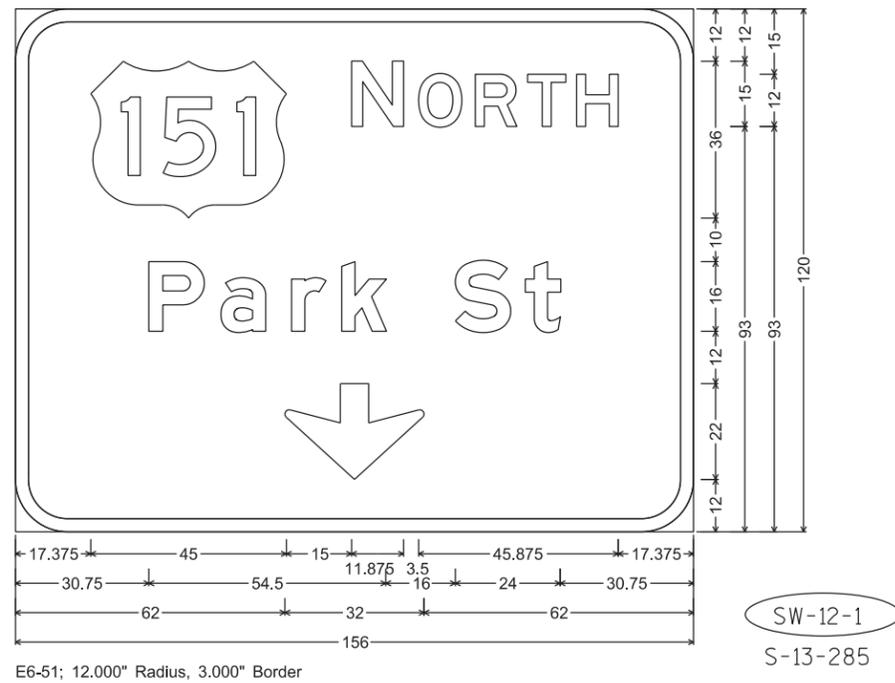
R3-5L_30x36; 1.875" Radius, 0.750" Border, 0.500" Indent, Black on White;
"ONLY", D;



R3-5R_30x36; 1.875" Radius, 0.750" Border, 0.500" Indent, Black on White;
"ONLY", D;

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E

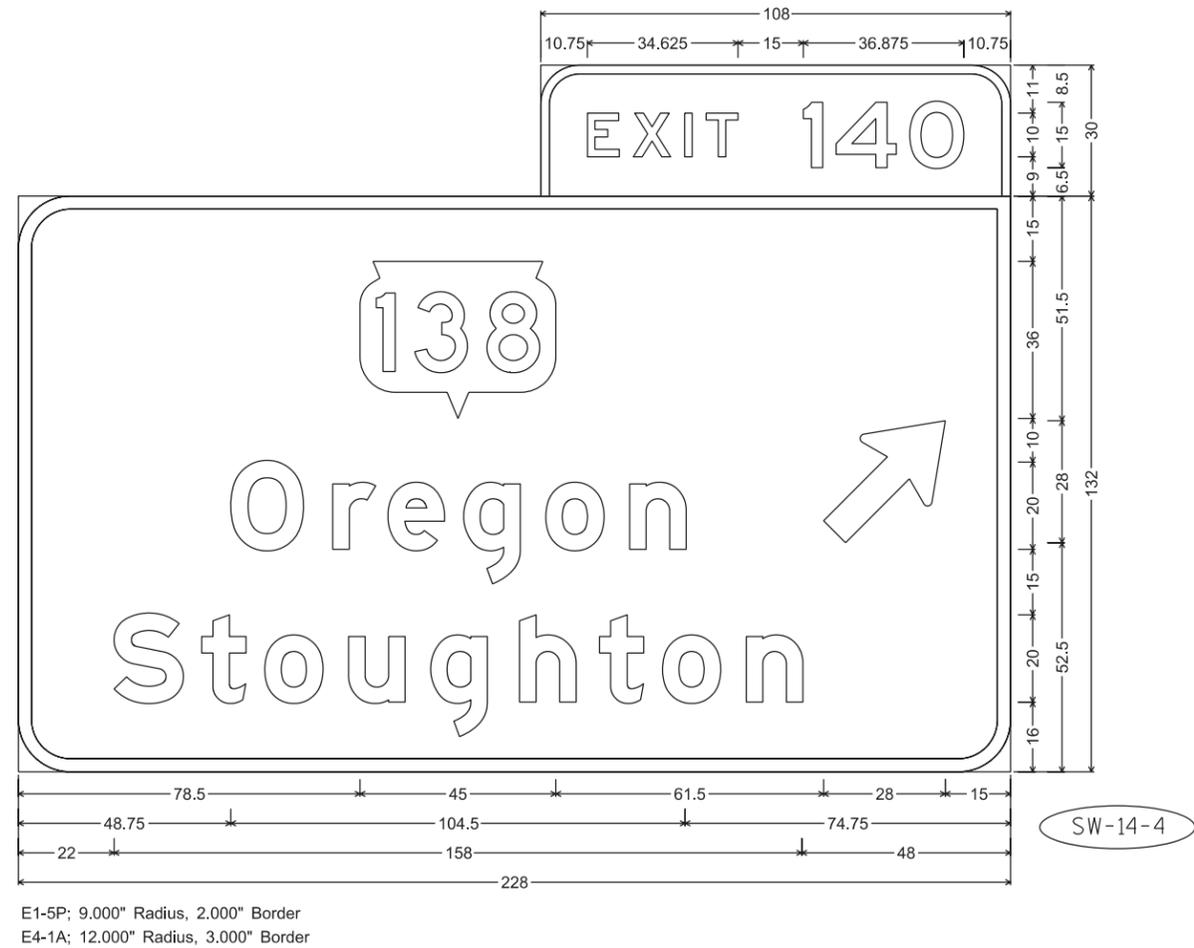
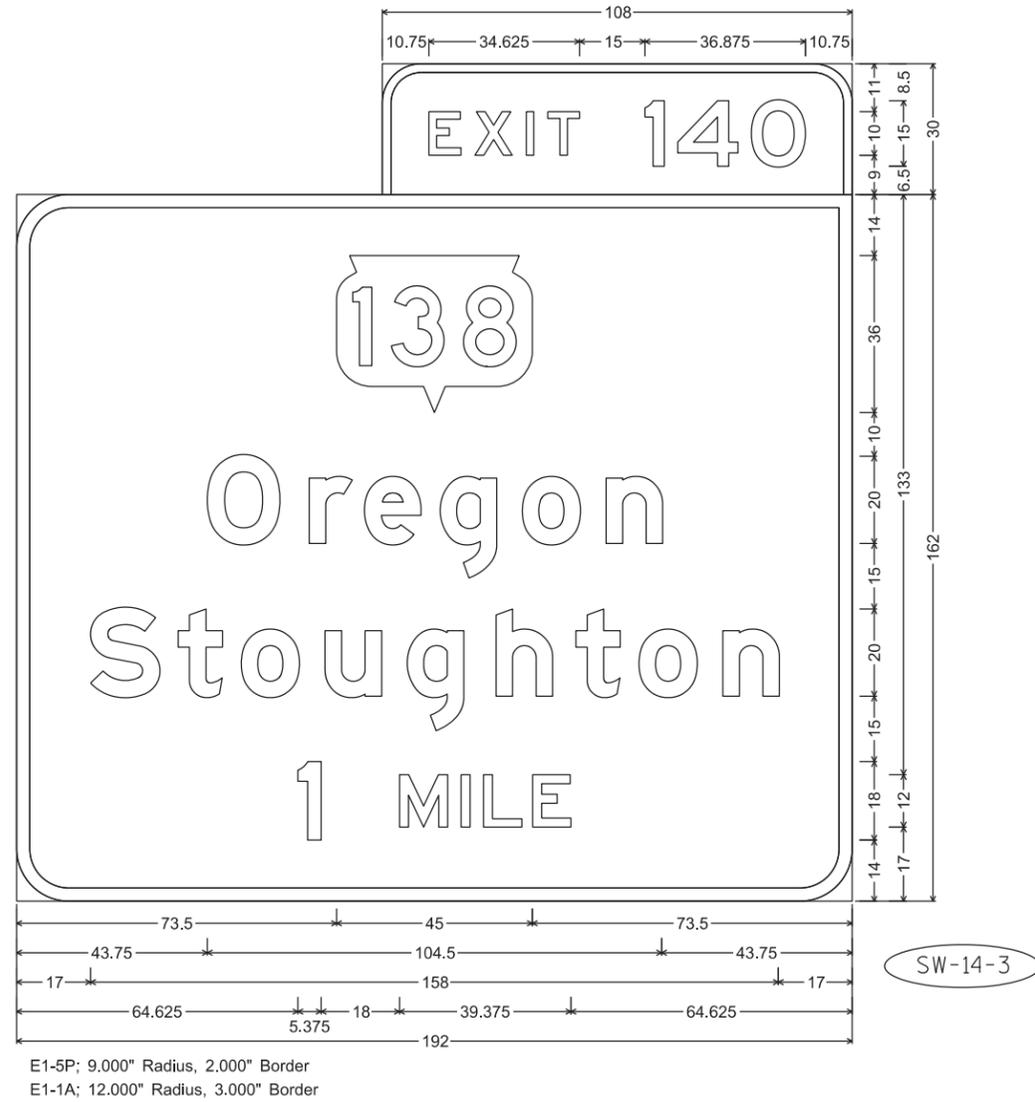


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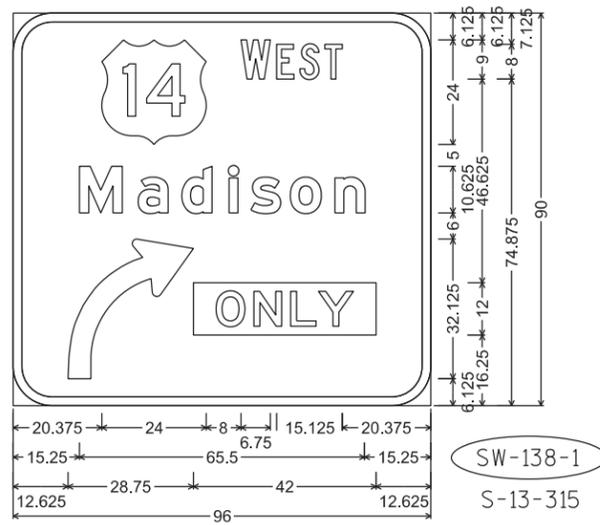
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E

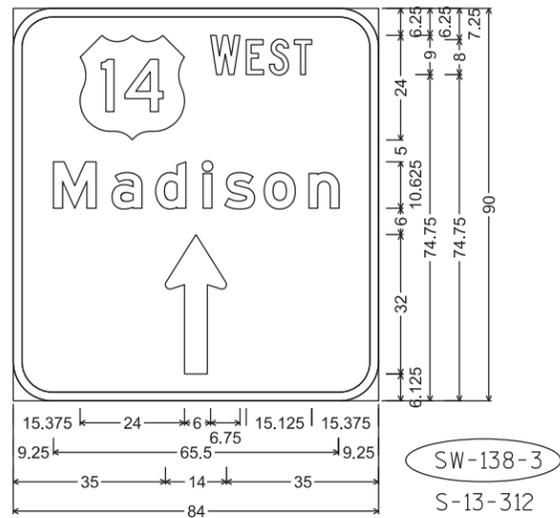


NOTES

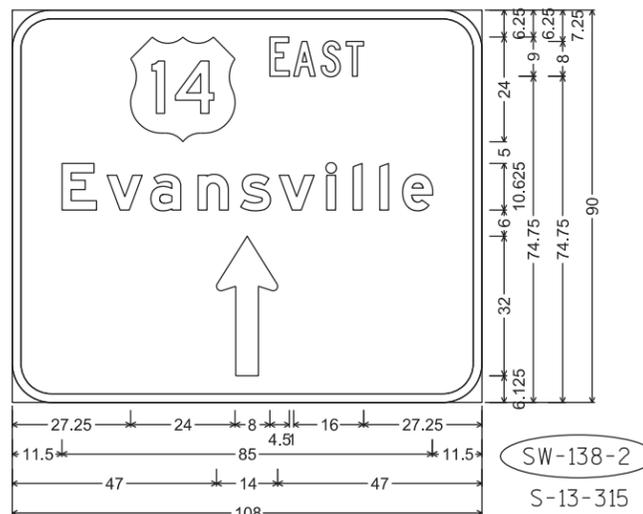
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E or as noted.
4. ONLY Plaque background on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



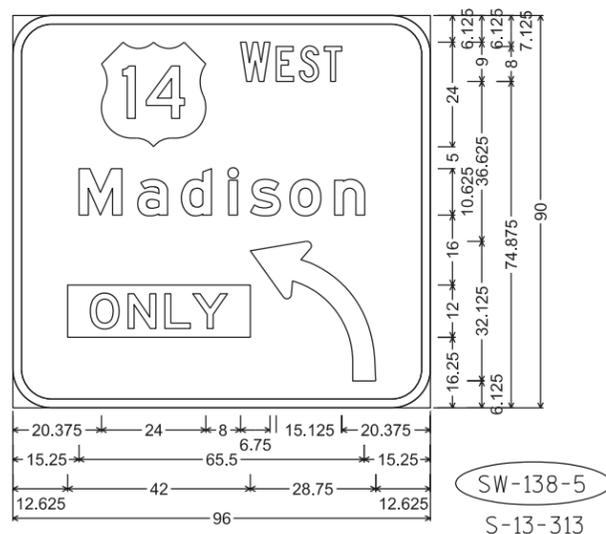
E6-54R; 9.000" Radius, 2.000" Border
"WEST", C; "Madison", E Mod



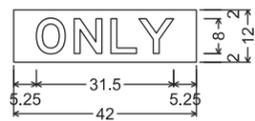
E6-54A; 9.000" Radius, 2.000" Border
"WEST", C; "Madison", E Mod



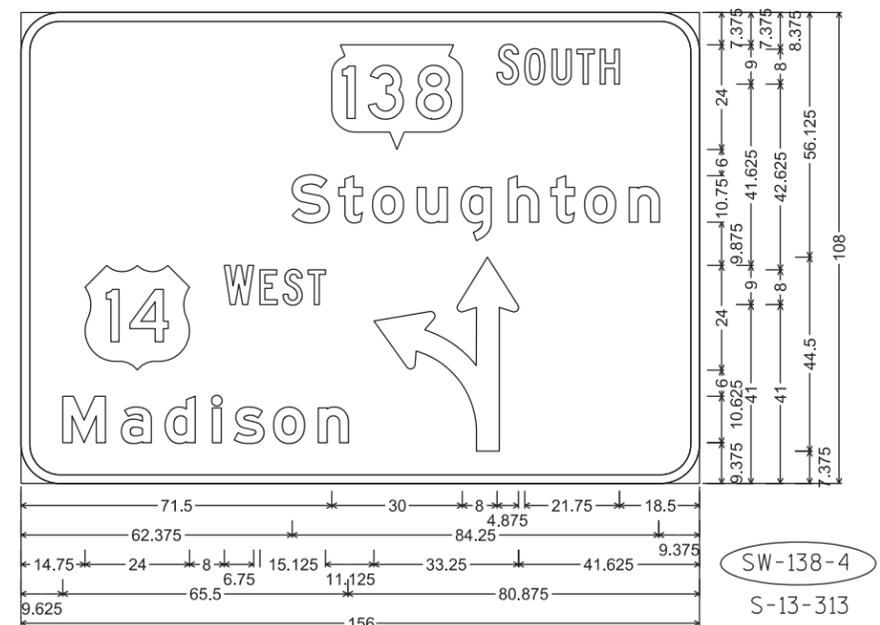
E6-54A; 9.000" Radius, 2.000" Border
"EAST", C; "Evansville", E Mod



E6-54L; 9.000" Radius, 2.000" Border
"WEST", C; "Madison", E Mod



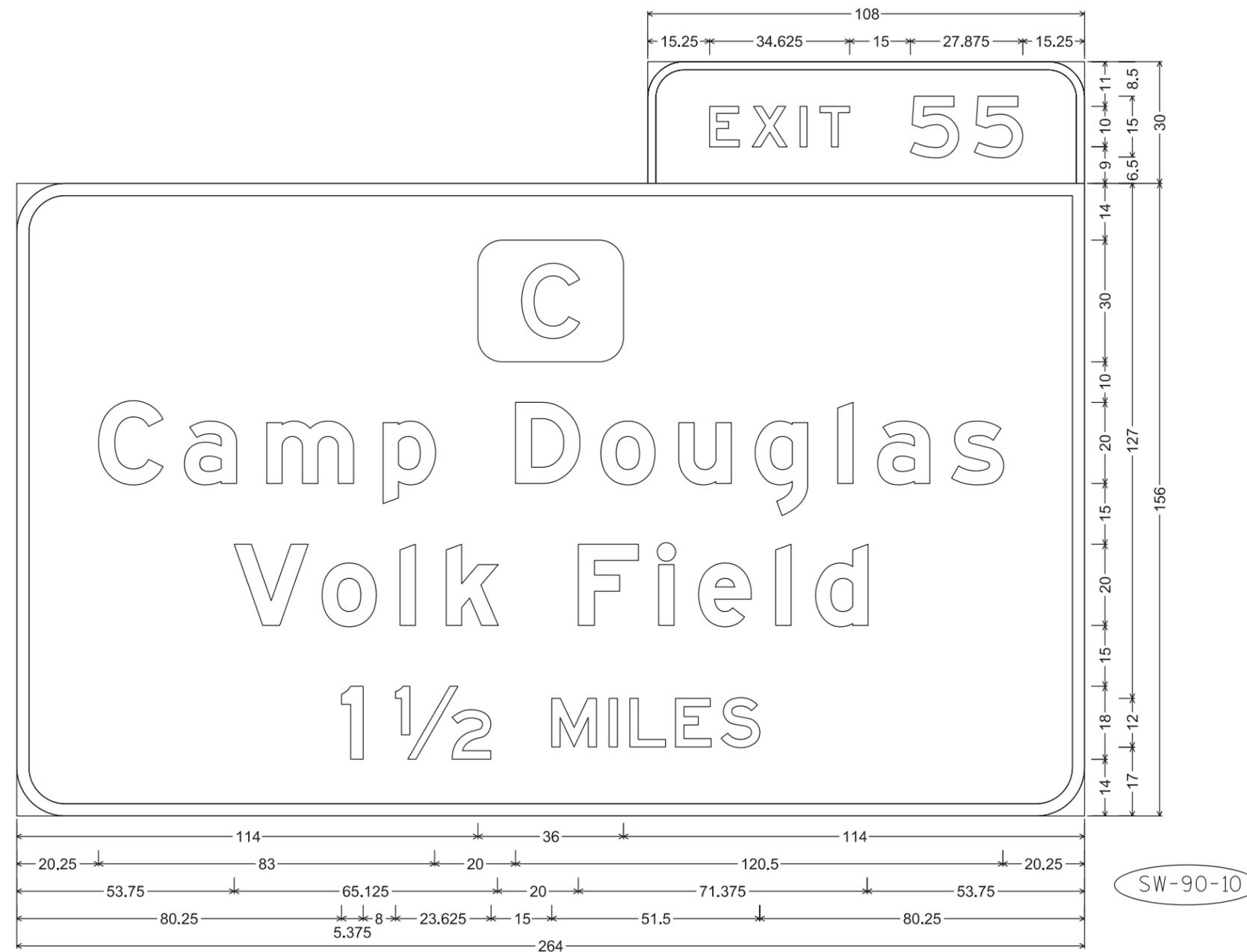
No border, Black on Fluorescent yellow;
"ONLY", E;



E6-52; 9.000" Radius, 2.000" Border
"SOUTH", C; "Stoughton", E Mod; "WEST", C

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

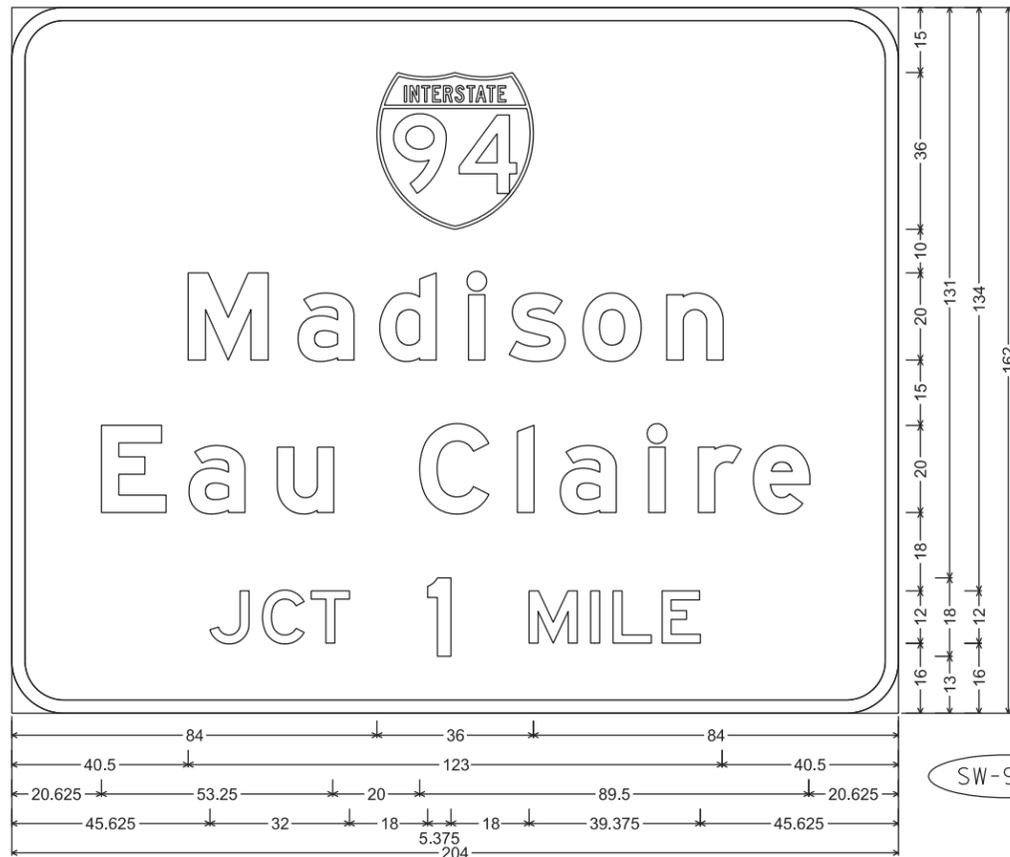


E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border

SW-90-10

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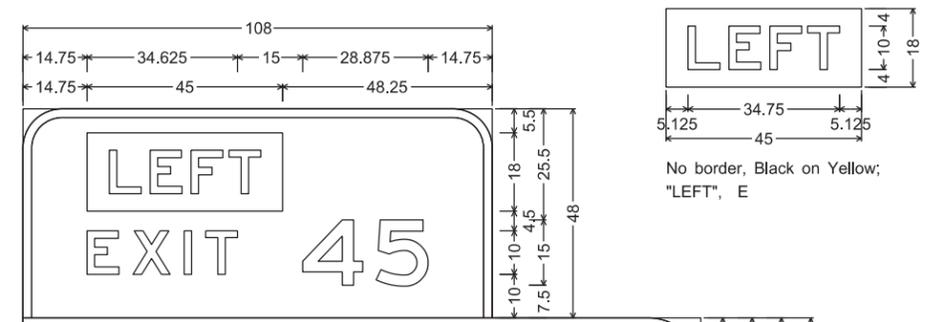


E1-1A; 12.000" Radius, 3.000" Border

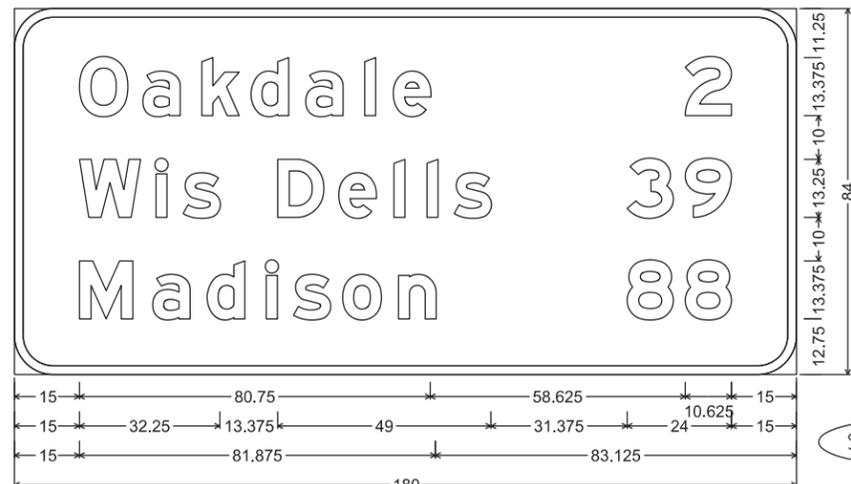
SW-90-1

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E
4. LEFT Plaque background on Yellow Type F Reflective Sheeting with Black Non-Reflective Message

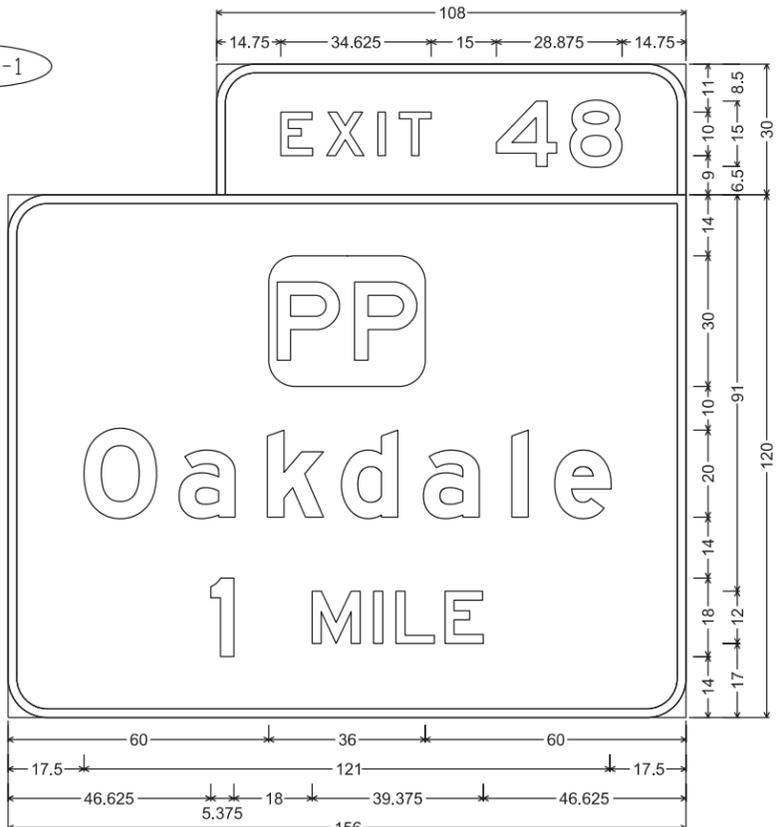


No border, Black on Yellow; "LEFT", E



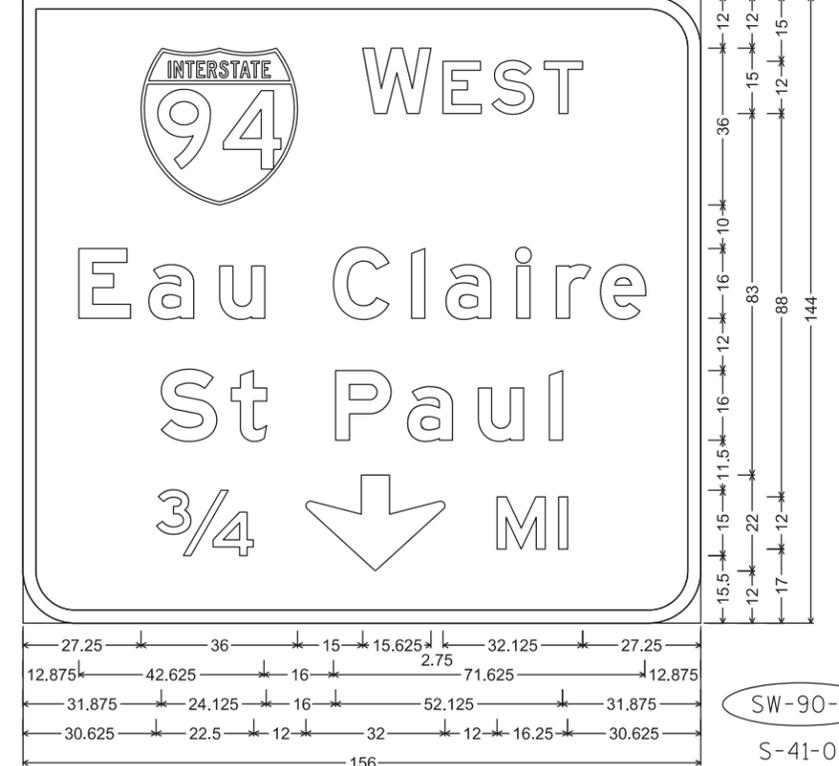
D2-3; 9.000" Radius, 2.000" Border

SW-90-6



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

SW-90-12



SW-90-2

S-41-07

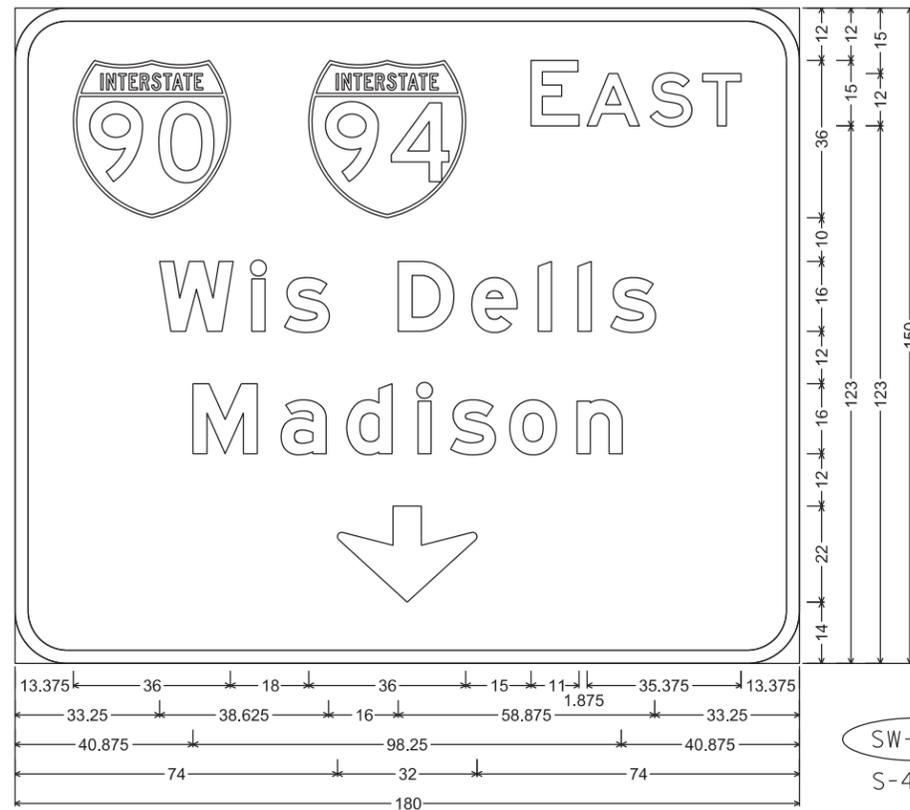
E1-5BP; 9.000" Radius, 2.000" Border
E6-51; 12.000" Radius, 3.000" Border

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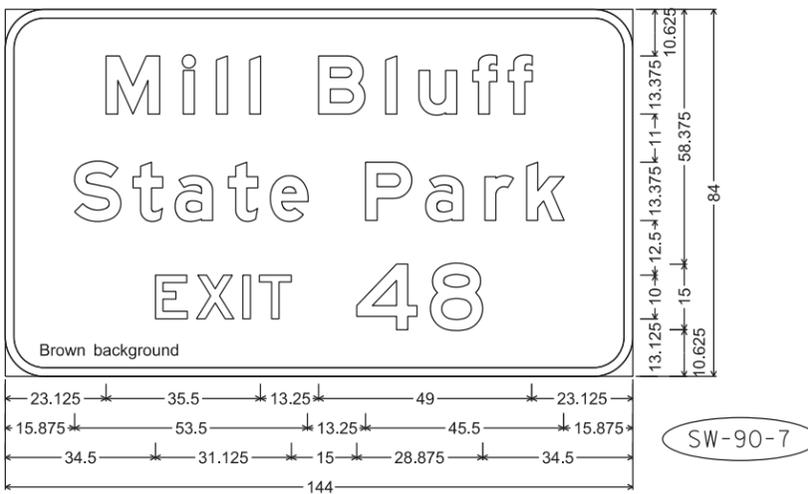
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green or as noted
Message - White
3. Message Series - E Modified except all CAP words Series E
4. LEFT Plaque background on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



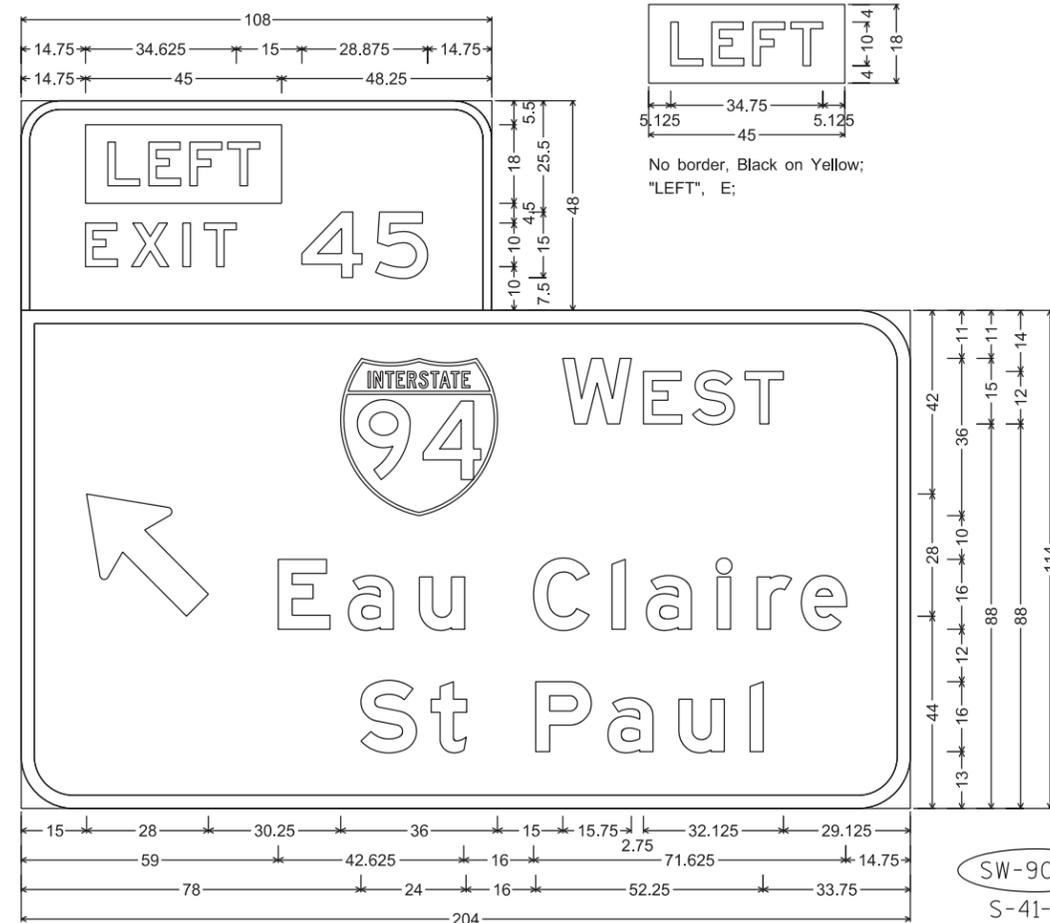
SW-90-3
S-41-07

E6-51; 12.000" Radius, 3.000" Border



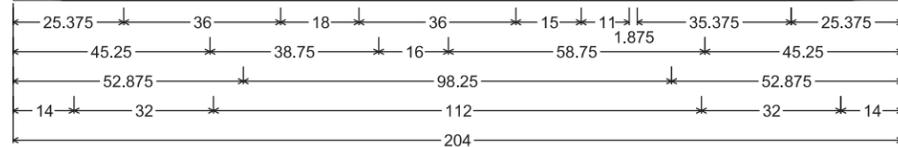
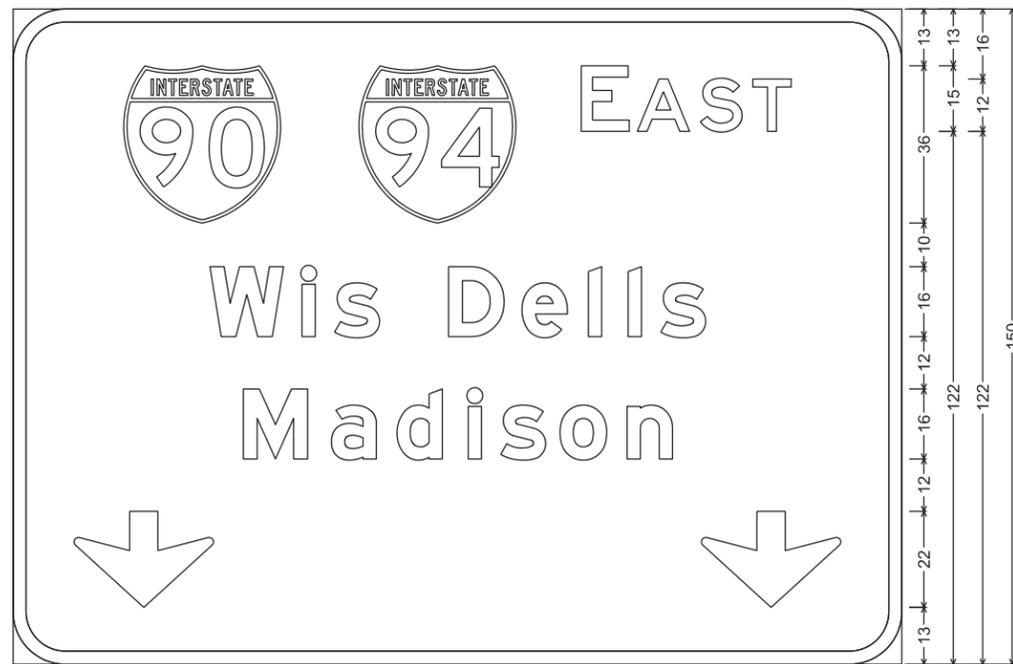
SW-90-7

E3-1; 9.000" Radius, 2.000" Border, White on Brown



SW-90-4
S-41-11

E1-5BP; 9.000" Radius, 2.000" Border
E6-1; 12.000" Radius, 3.000" Border

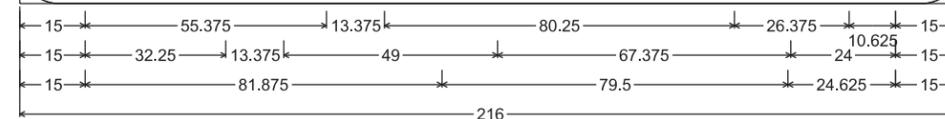
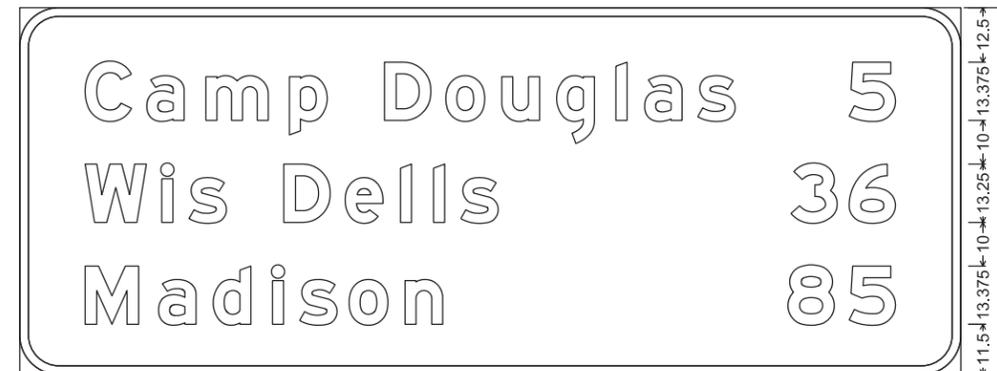


E6-51; 12.000" Radius, 3.000" Border

SW-90-5
S-41-11

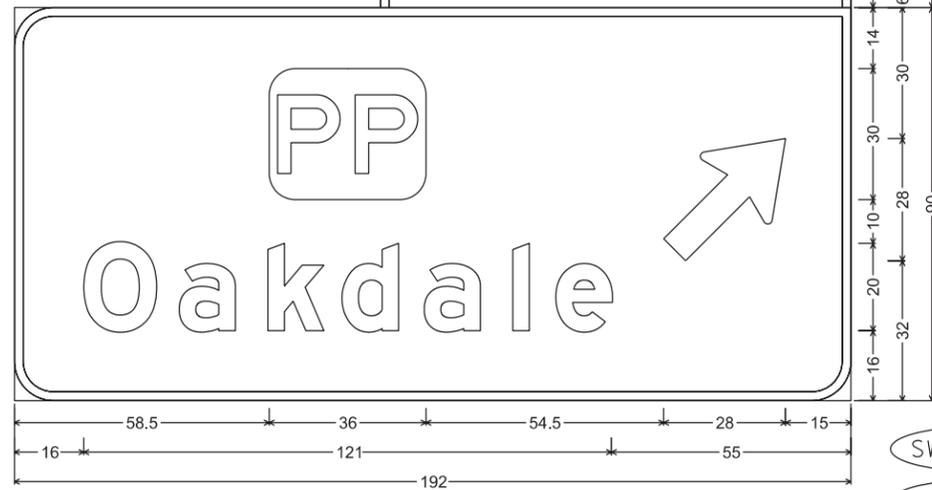
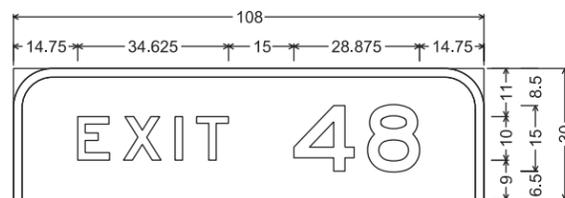
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



D2-3; 9.000" Radius, 2.000" Border

SW-90-9



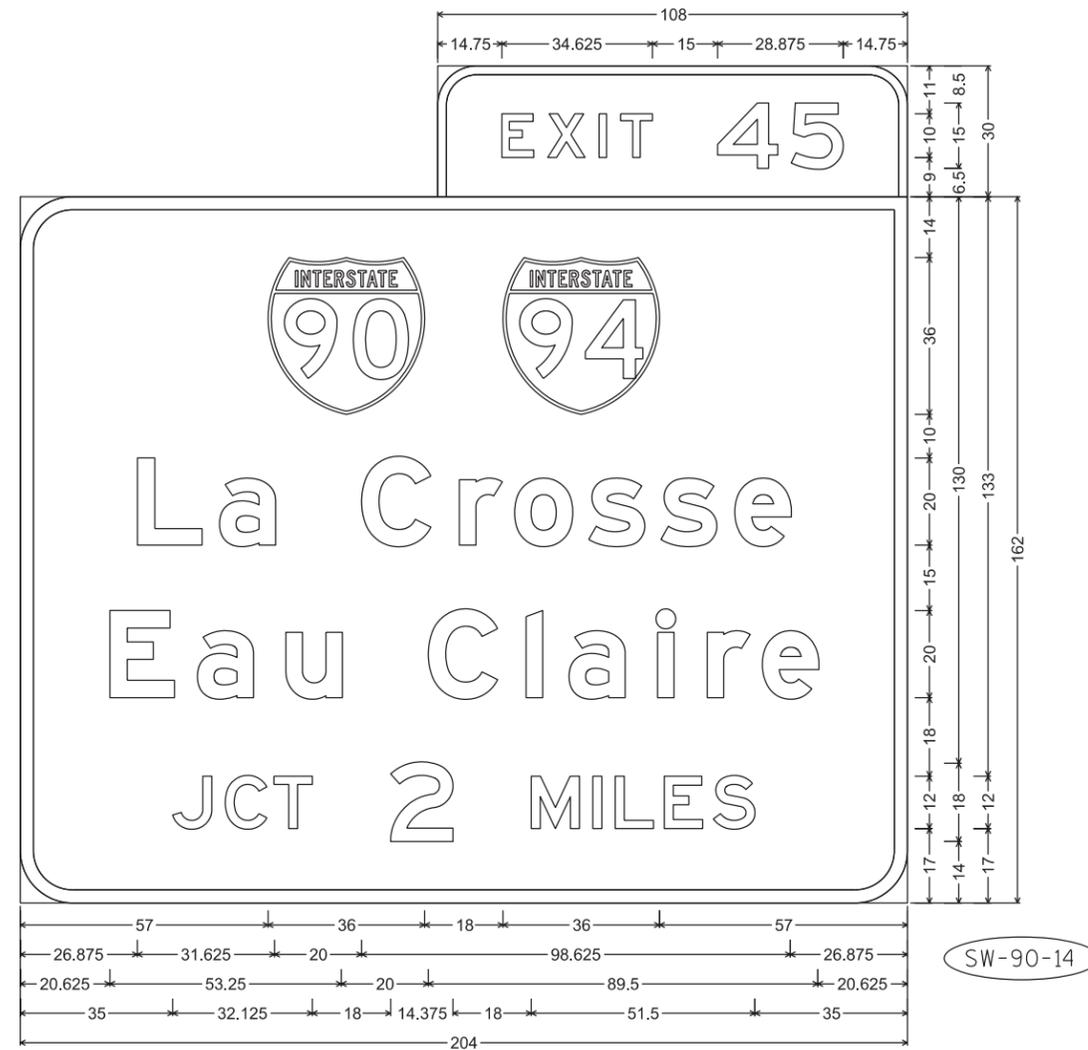
E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 9.000" Radius, 2.000" Border

SW-90-8

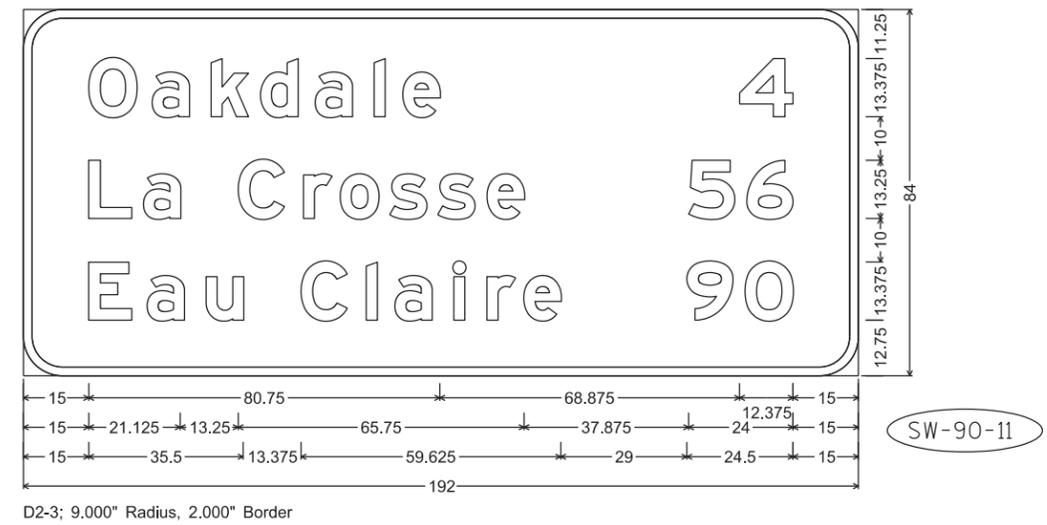
SW-90-13

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



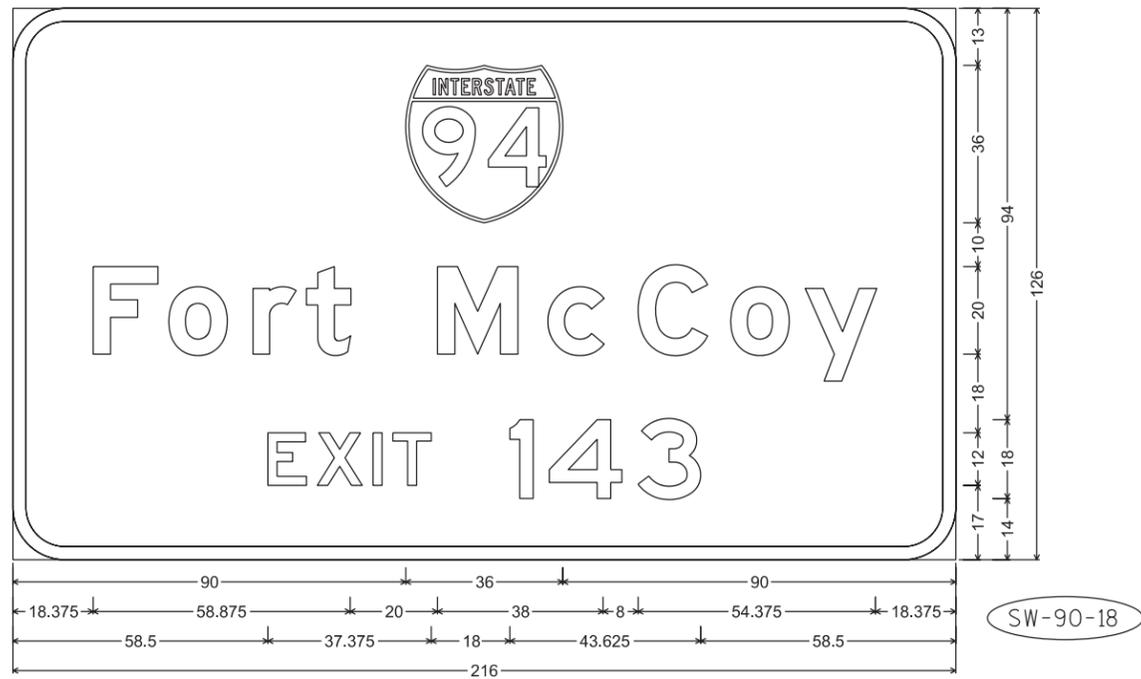
E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border



D2-3; 9.000" Radius, 2.000" Border

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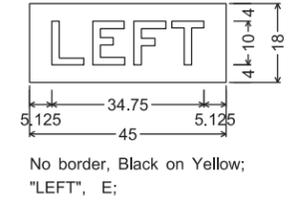
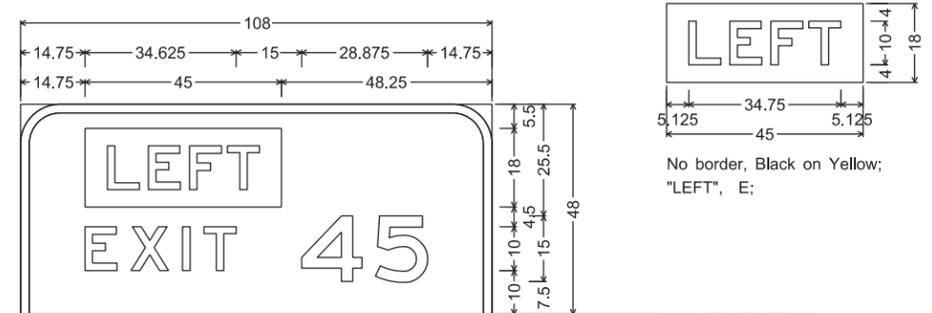
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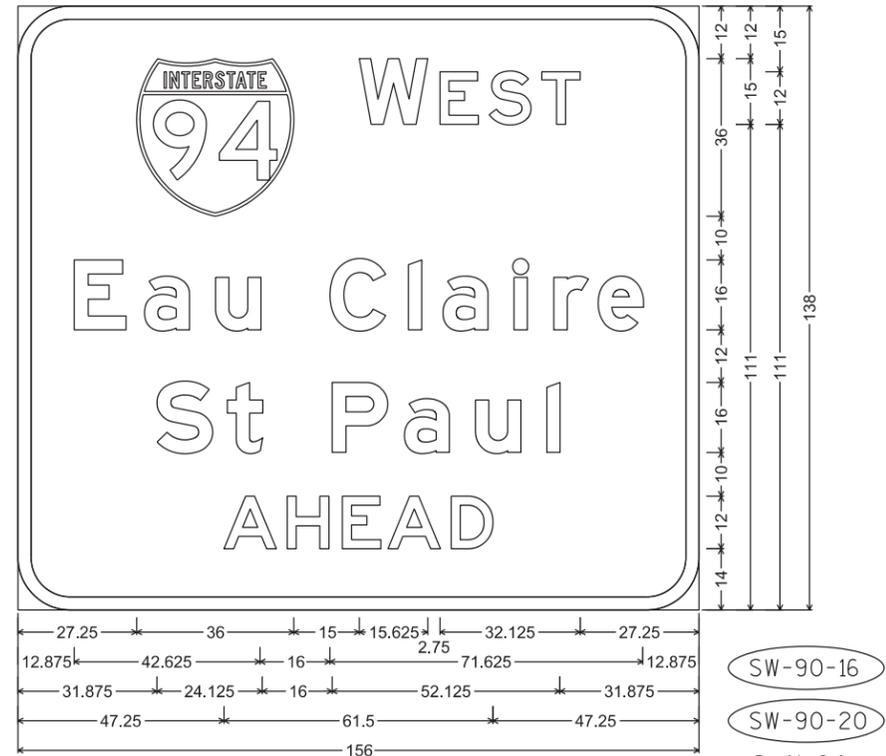
E1-1A; 12.000" Radius, 3.000" Border

NOTES

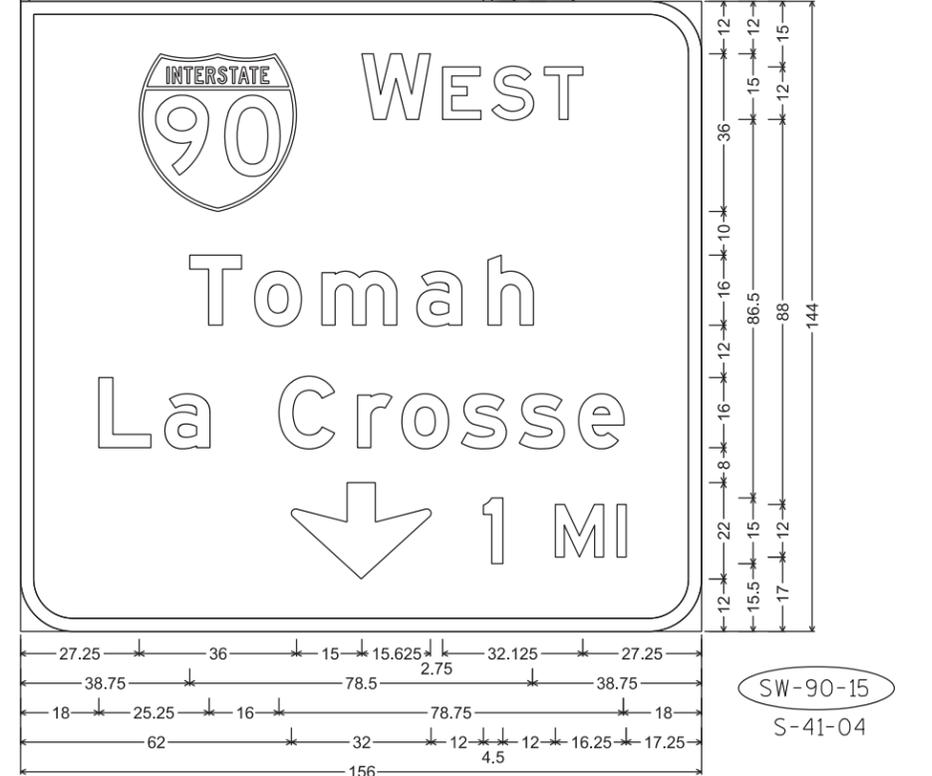
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E
4. LEFT Plaque background on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



No border, Black on Yellow; "LEFT", E;



E6-51; 12.000" Radius, 3.000" Border



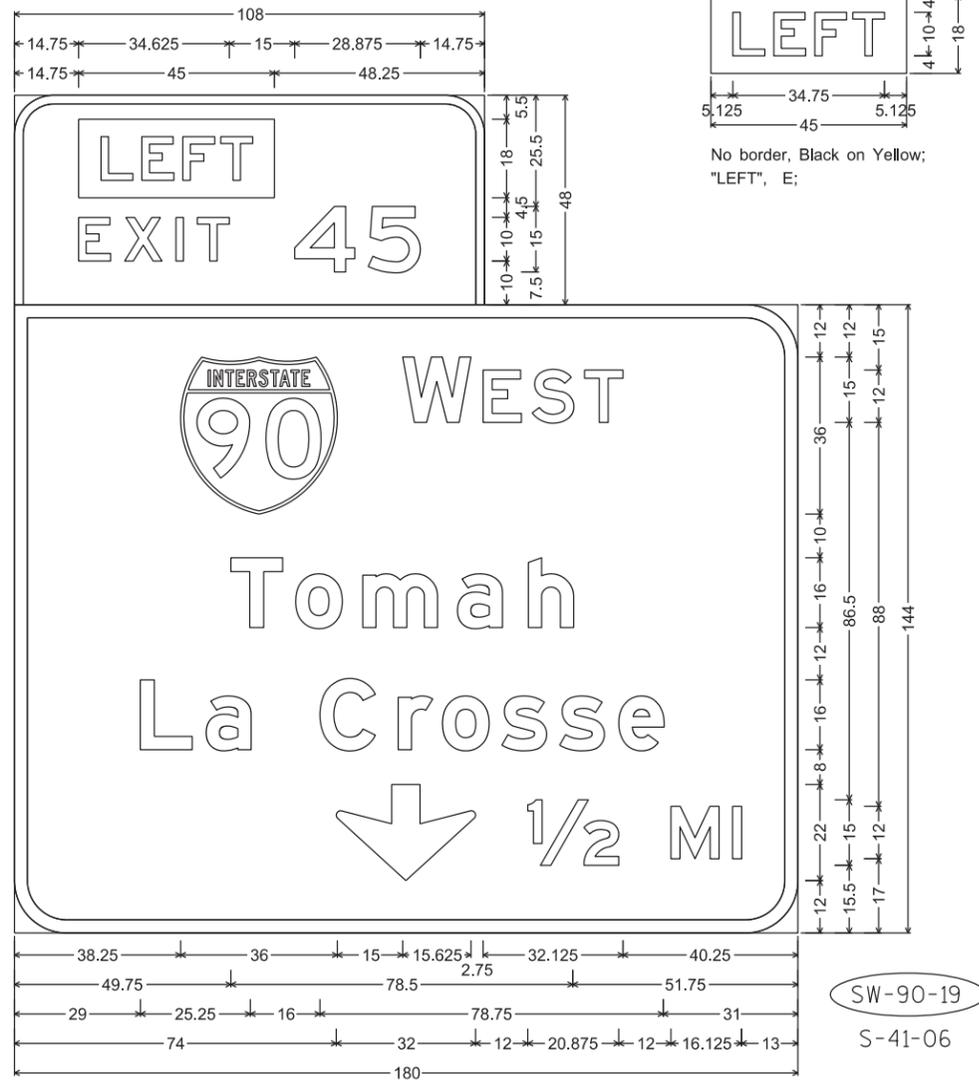
E1-5BP; 9.000" Radius, 2.000" Border
E6-51; 12.000" Radius, 3.000" Border

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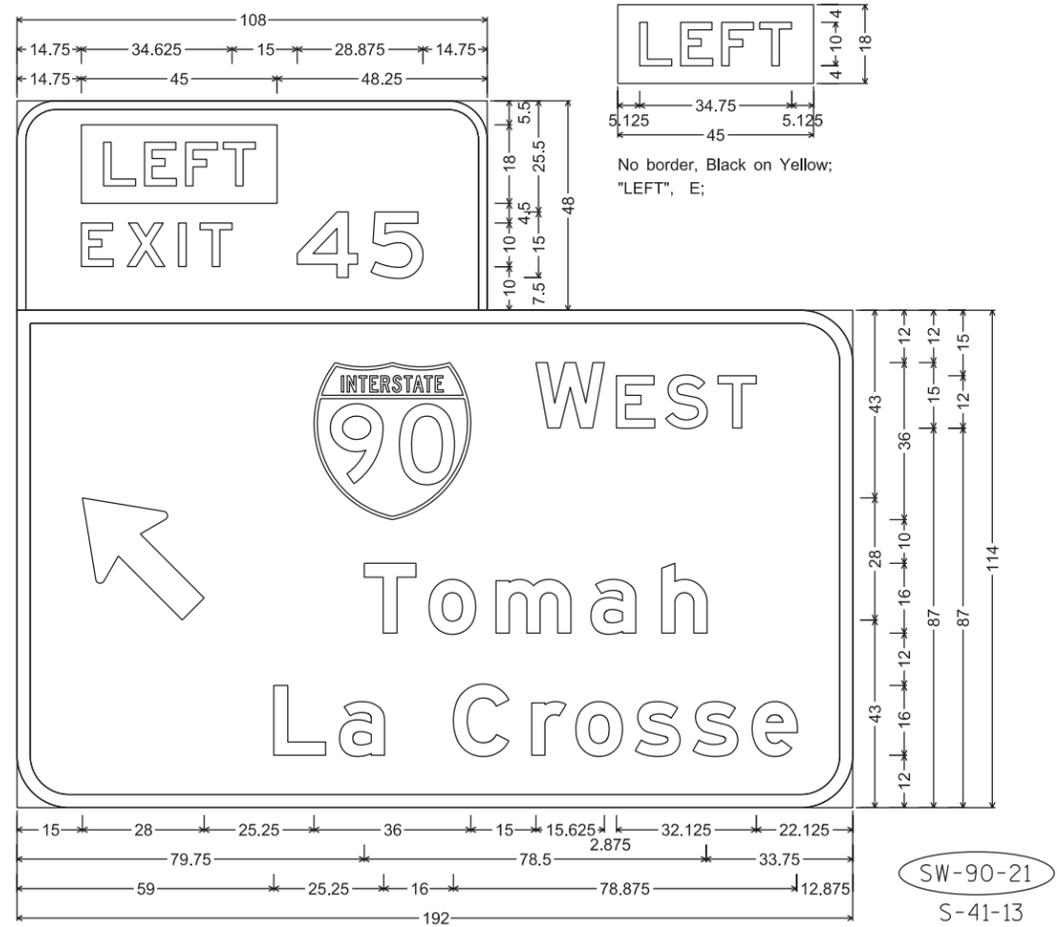
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NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
 - Background - Green
 - Message - White
3. Message Series - E Modified except all CAP words Series E
4. LEFT Plaque background on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



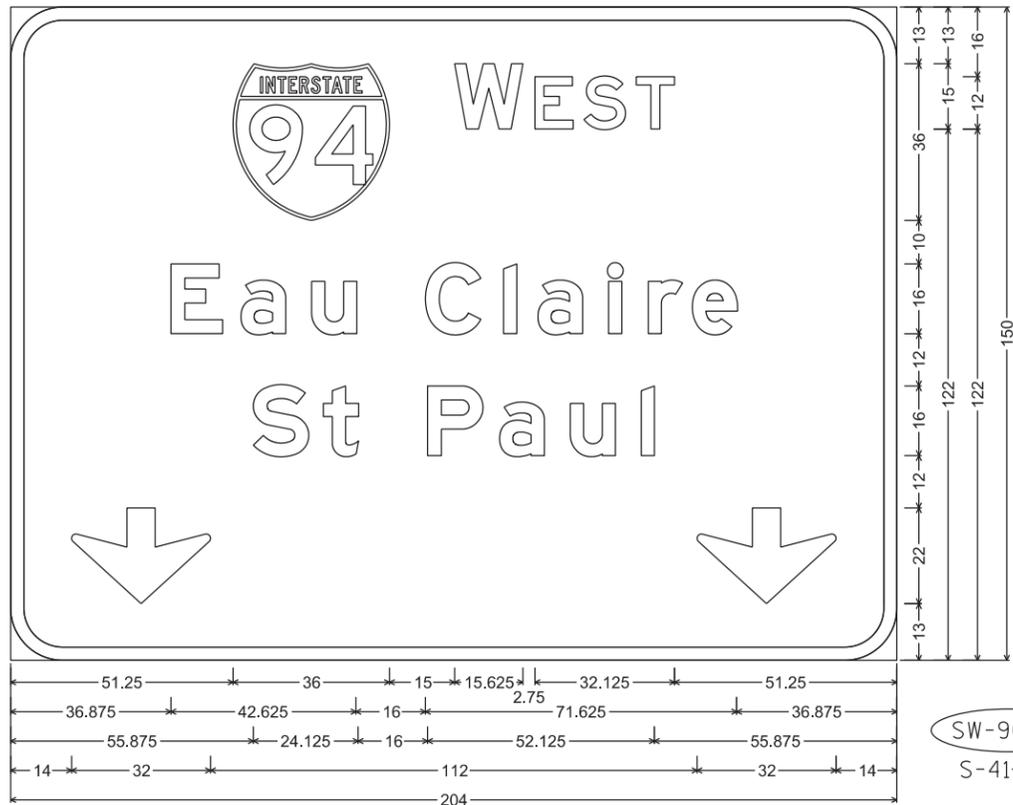
E1-5BP; 9.000" Radius, 2.000" Border
E6-51; 12.000" Radius, 3.000" Border



E1-5BP; 9.000" Radius, 2.000" Border
E6-1; 12.000" Radius, 3.000" Border

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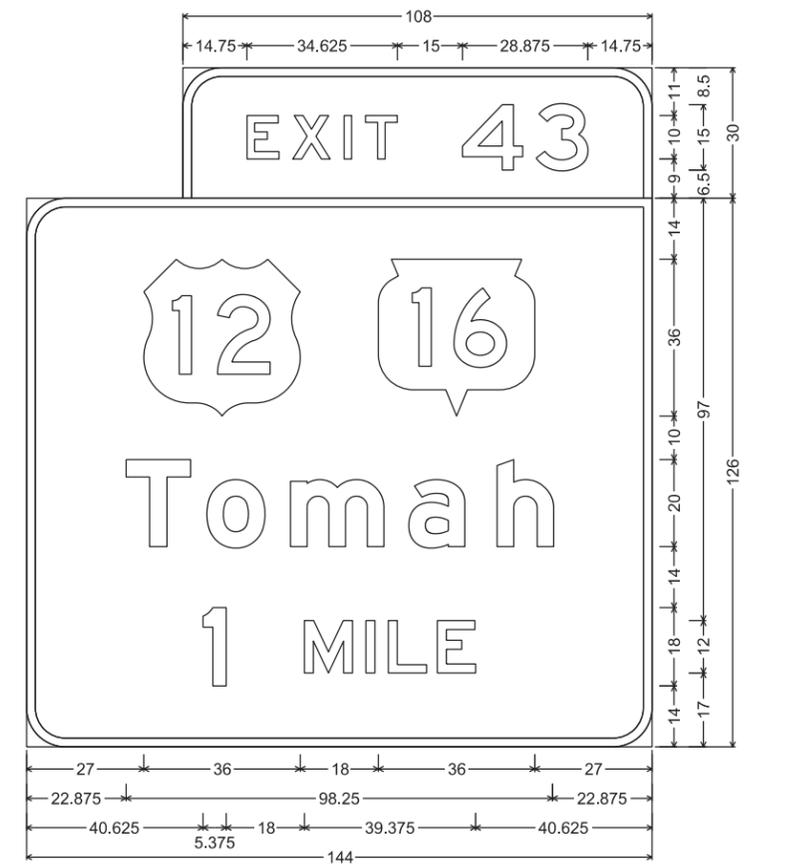


E6-51; 12.000" Radius, 3.000" Border

SW-90-22
S-41-13

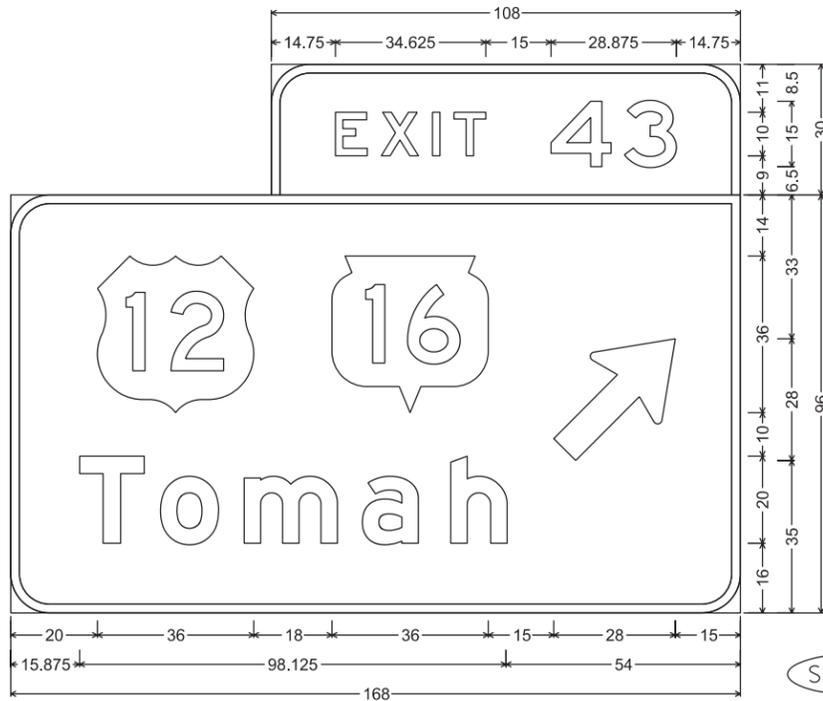
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



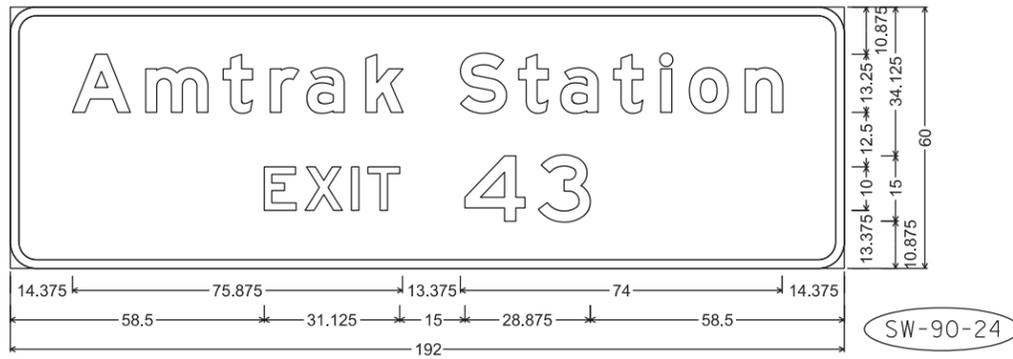
E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 9.000" Radius, 2.000" Border

SW-90-23



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

SW-90-25

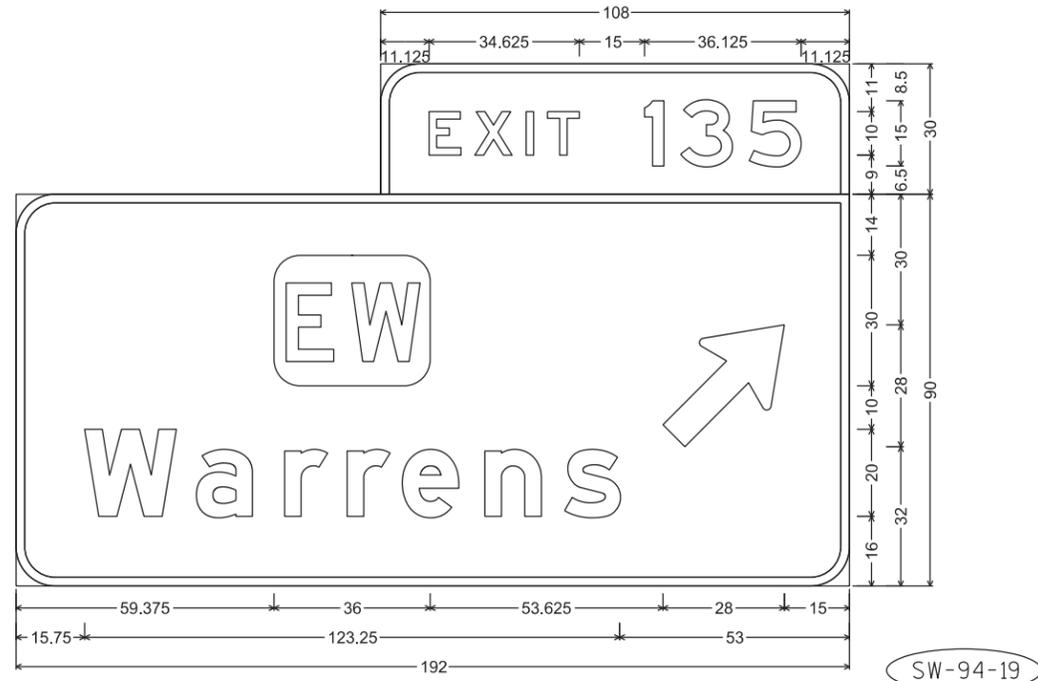


SW-90-24

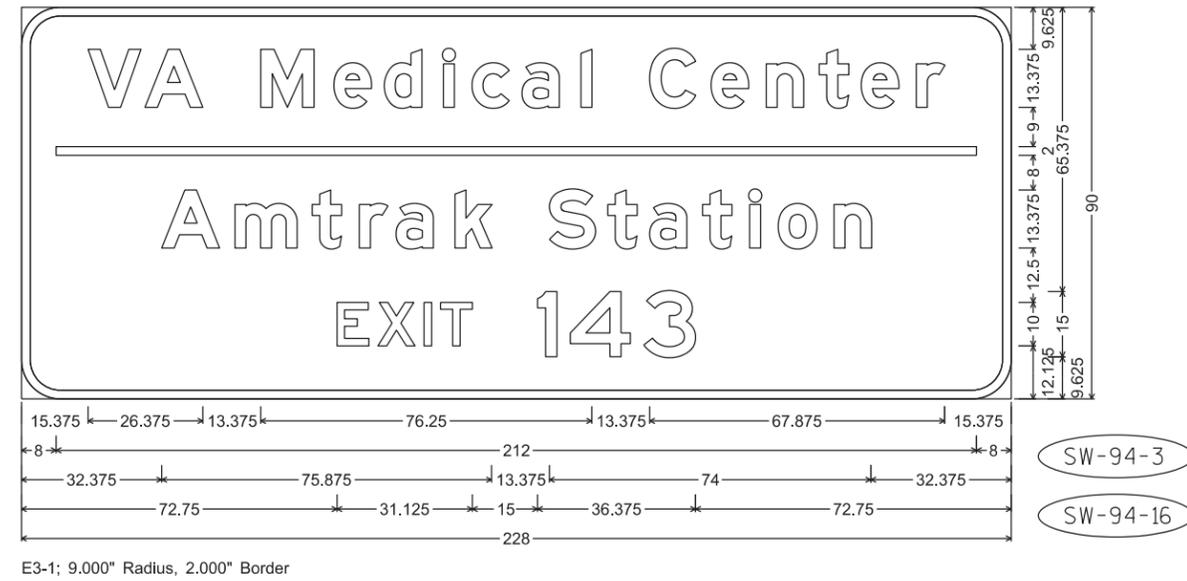
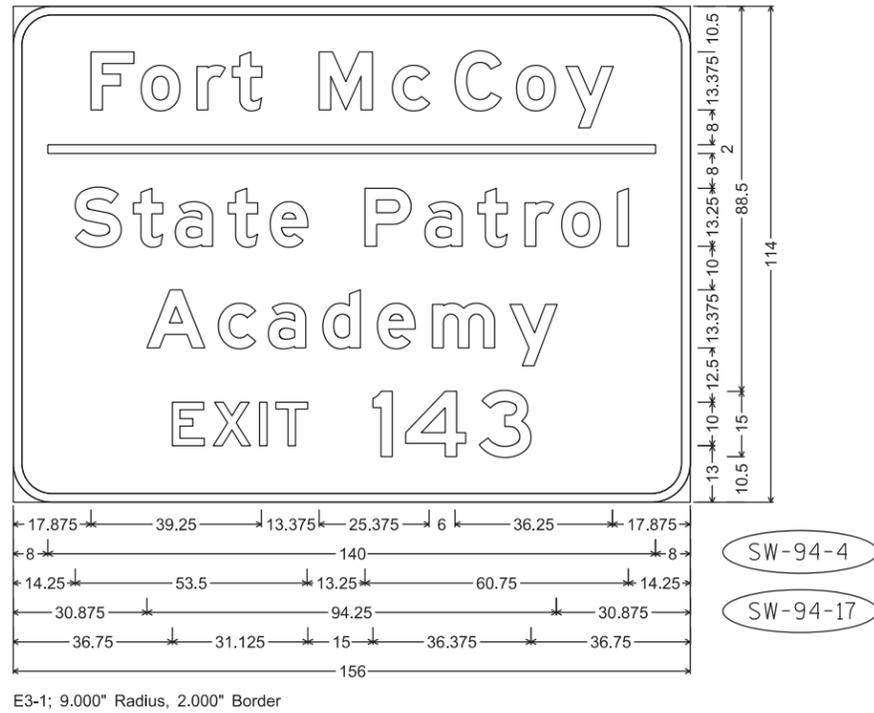
E3-1; 6.000" Radius, 2.000" Border

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



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

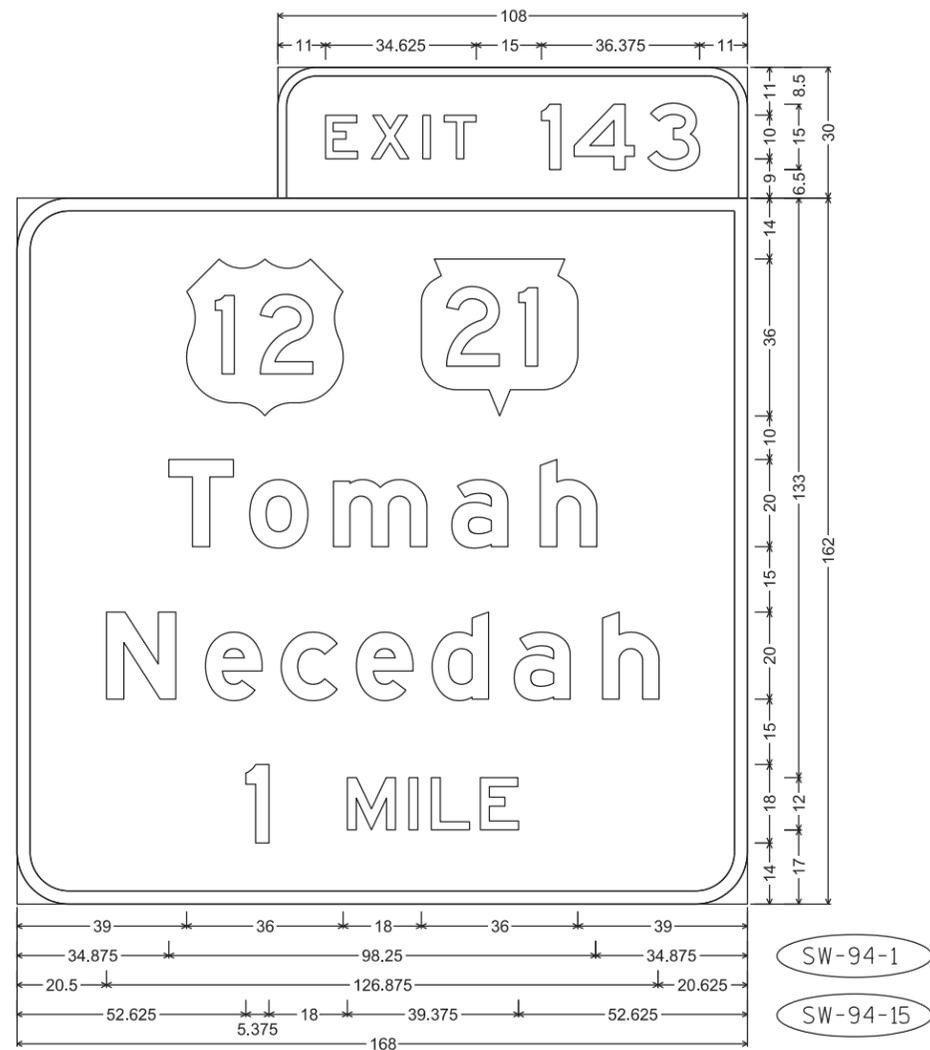


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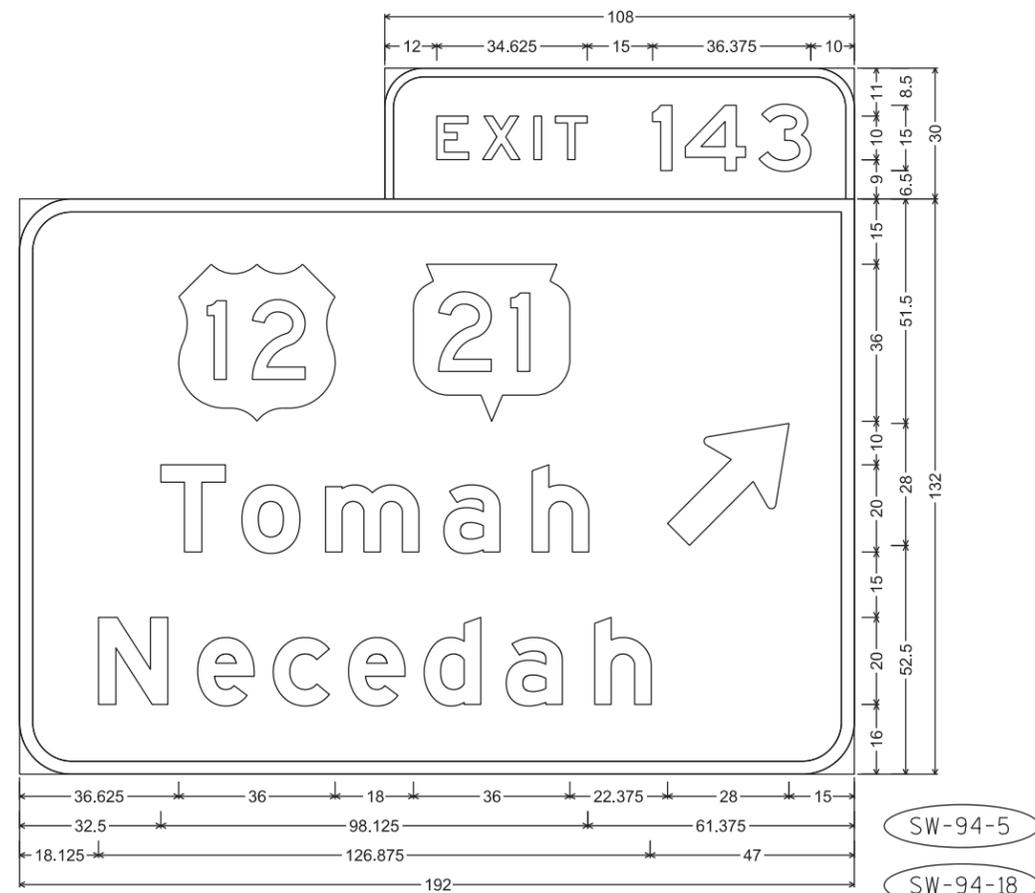
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



SW-94-1

SW-94-15

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



SW-94-5

SW-94-18

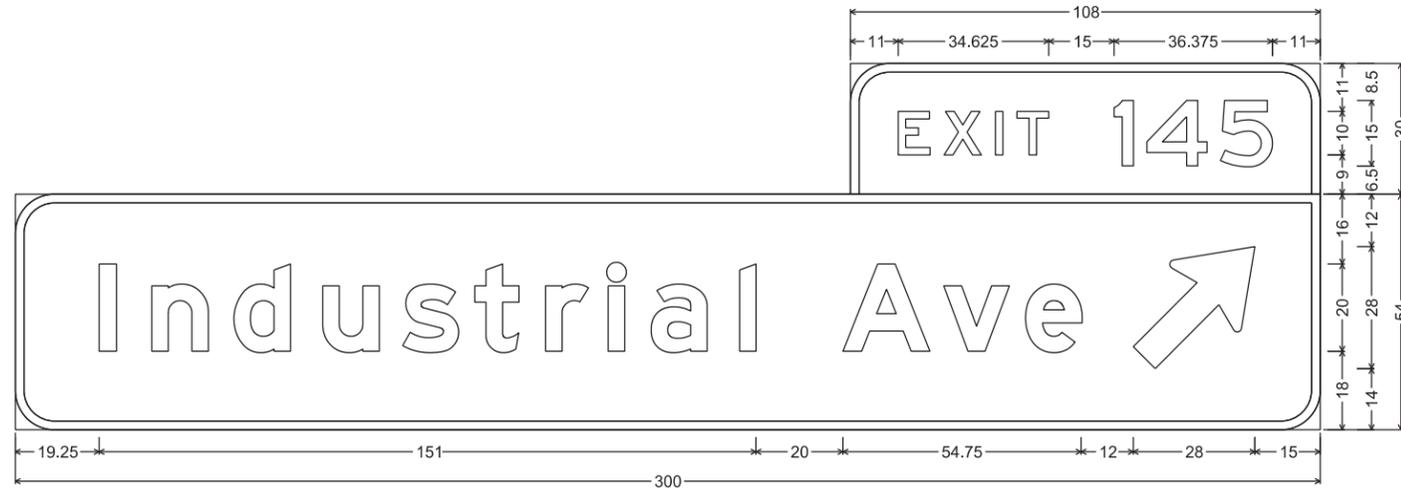
E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 12.000" Radius, 3.000" Border

7

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NOTES

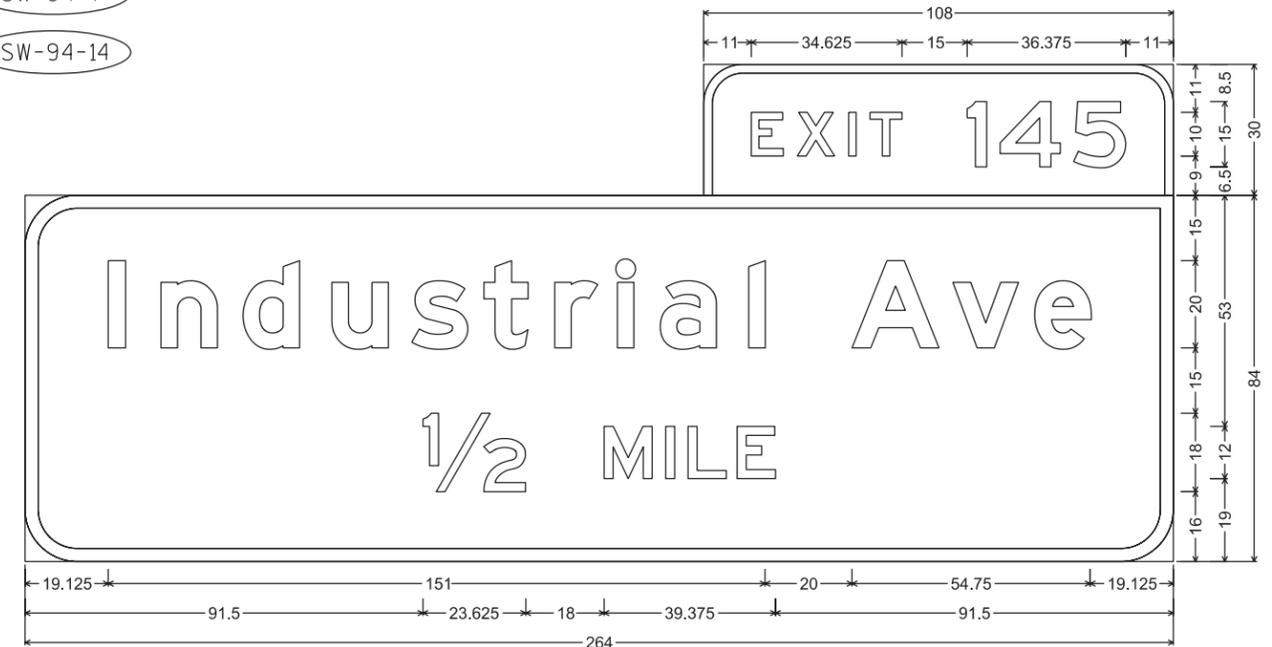
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



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

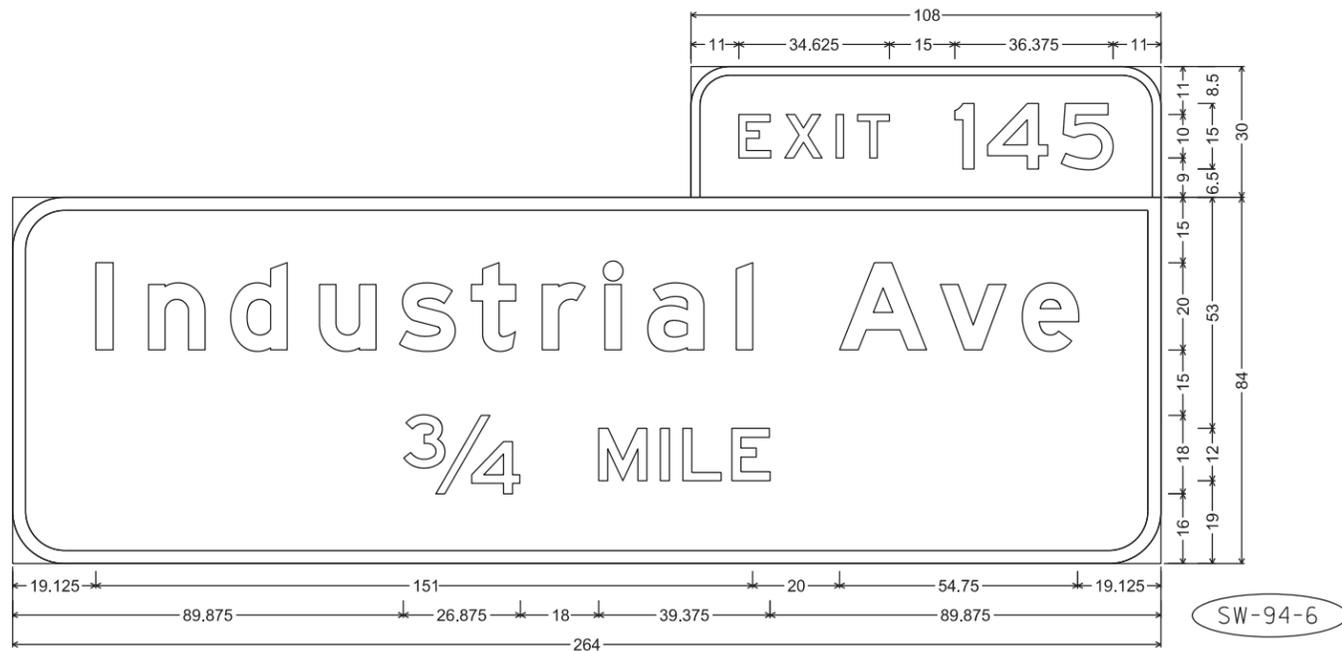
SW-94-7

SW-94-14



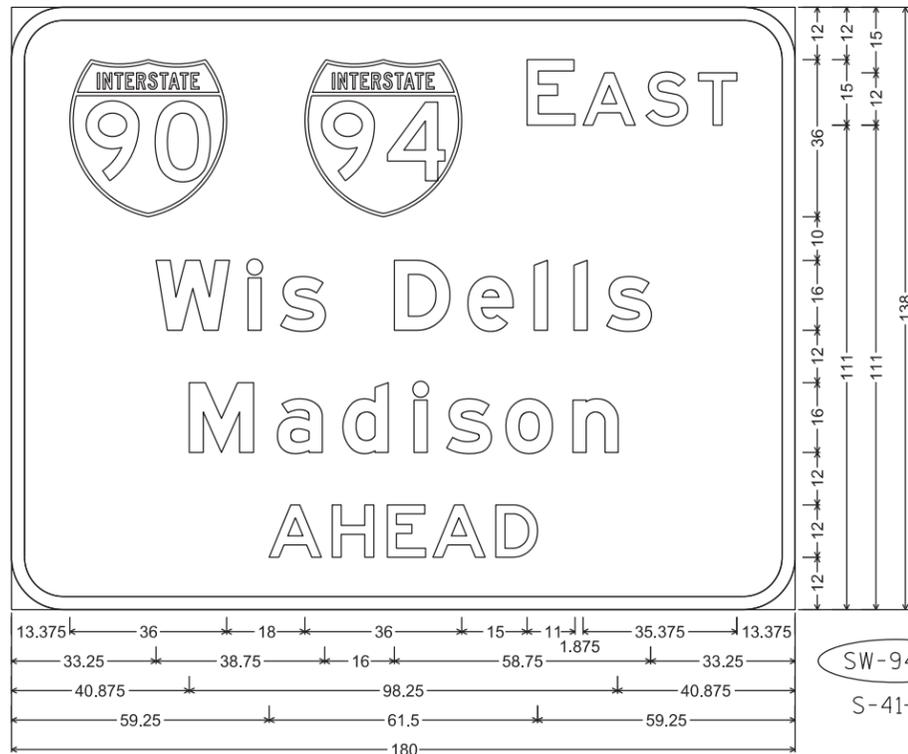
E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border

SW-94-13



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

SW-94-6

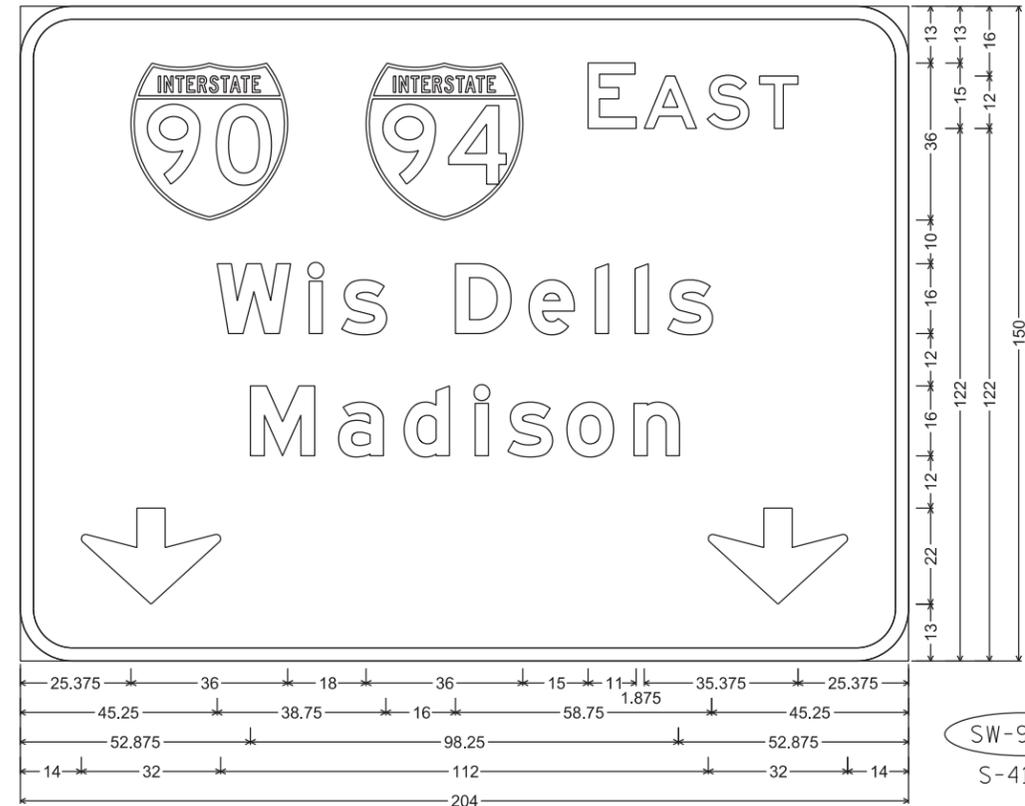


E6-51; 12.000" Radius, 3.000" Border

SW-94-9
S-41-08

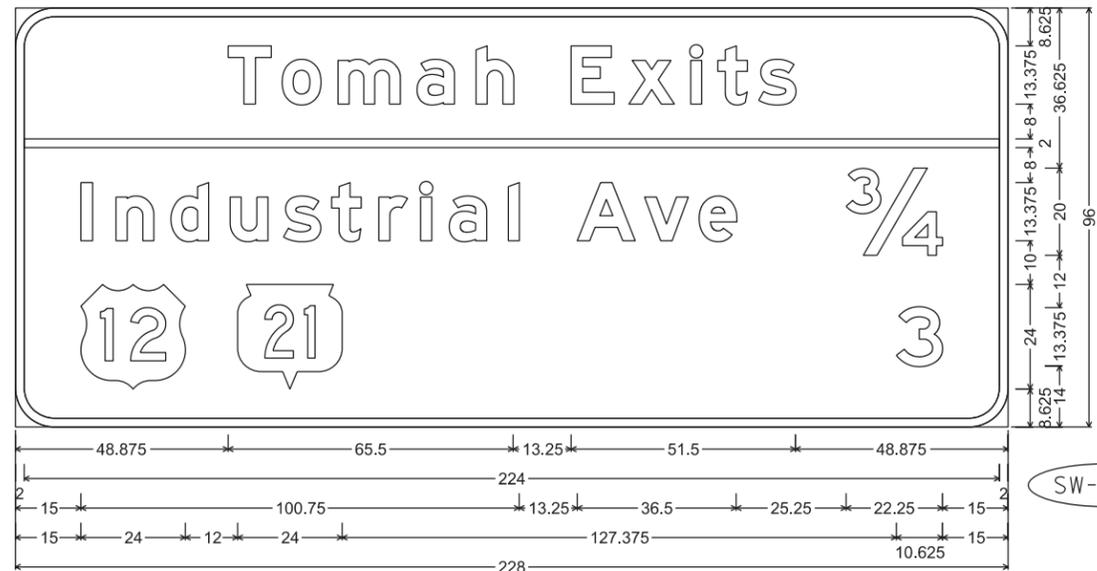
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



E6-51; 12.000" Radius, 3.000" Border

SW-94-11
S-41-12

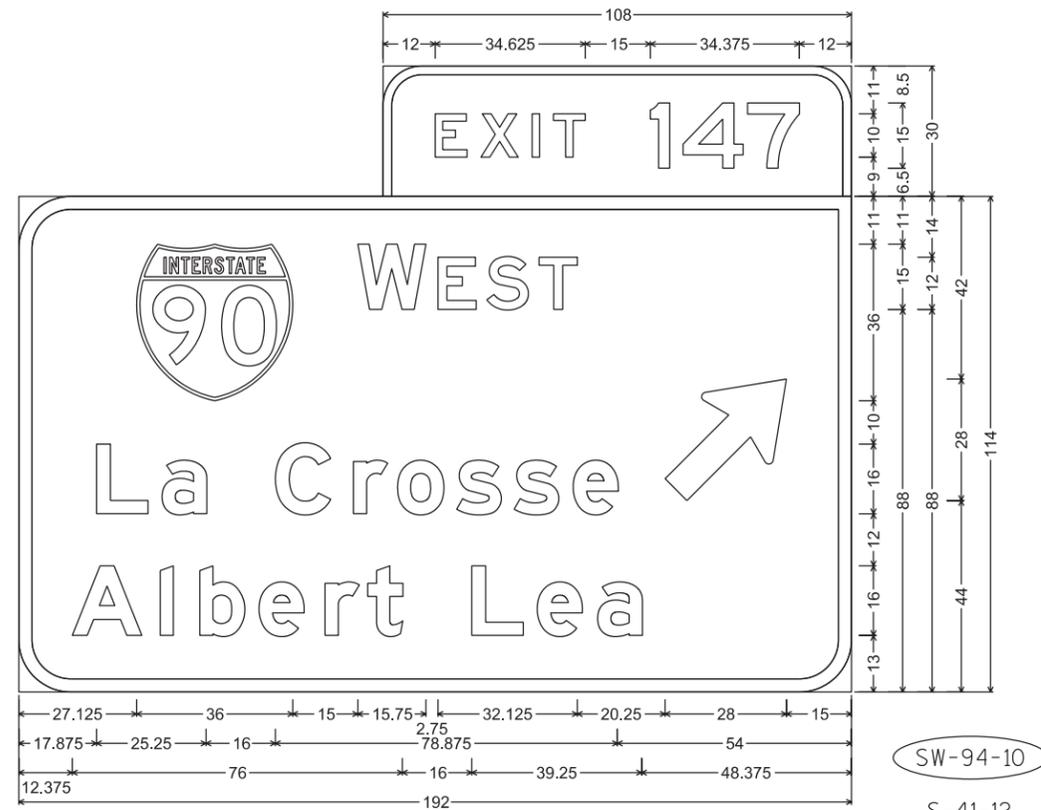


E8-1; 9.000" Radius, 2.000" Border

SW-94-12

NOTES

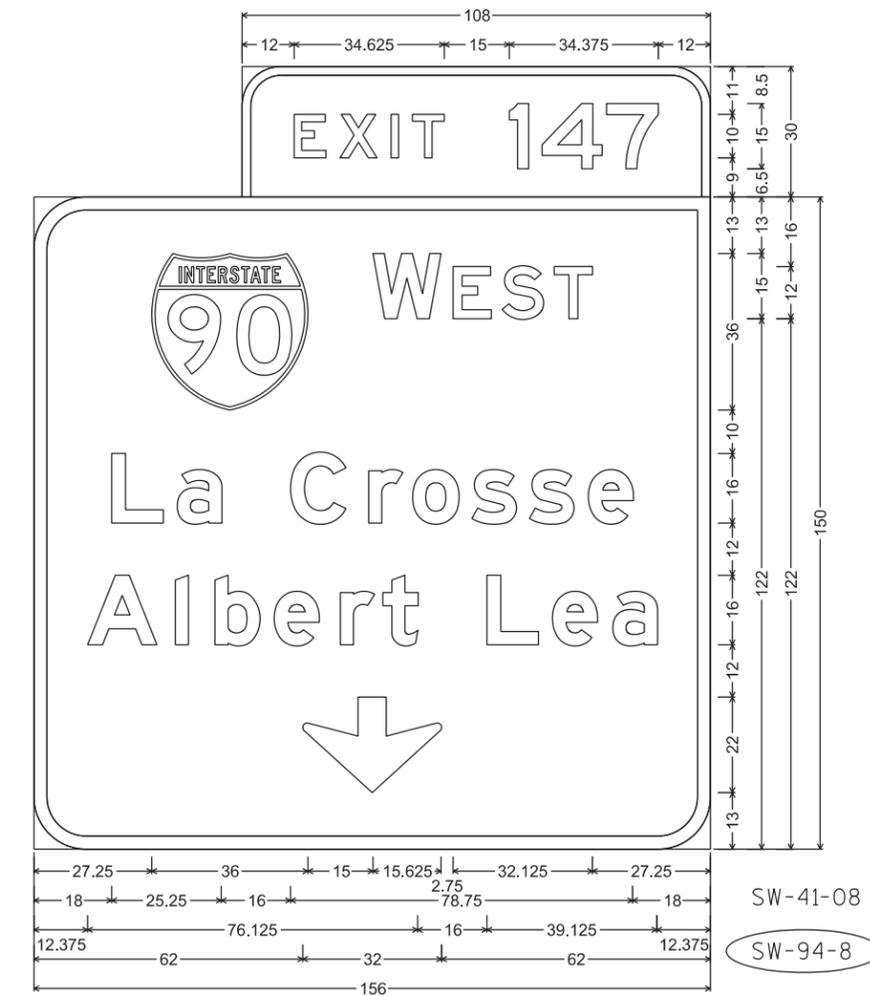
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



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

SW-94-10

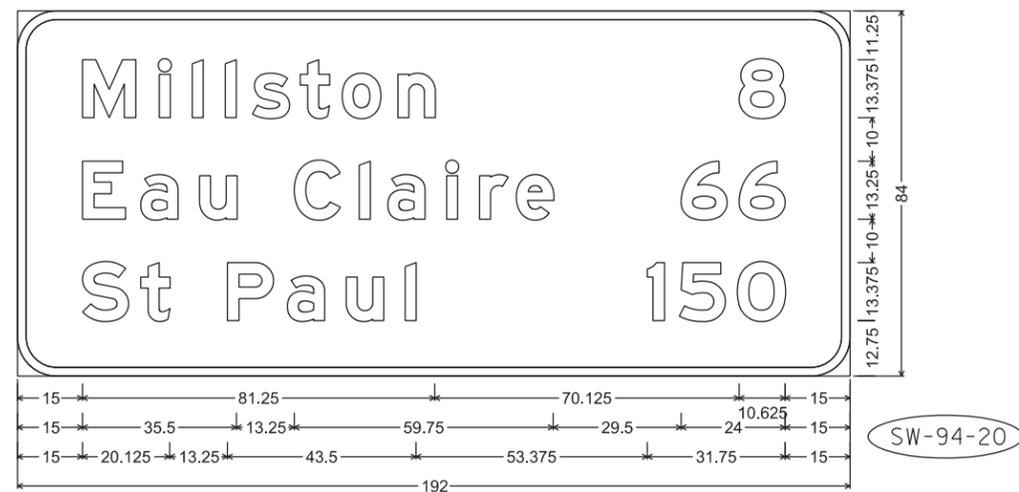
S-41-12



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

SW-41-08

SW-94-8

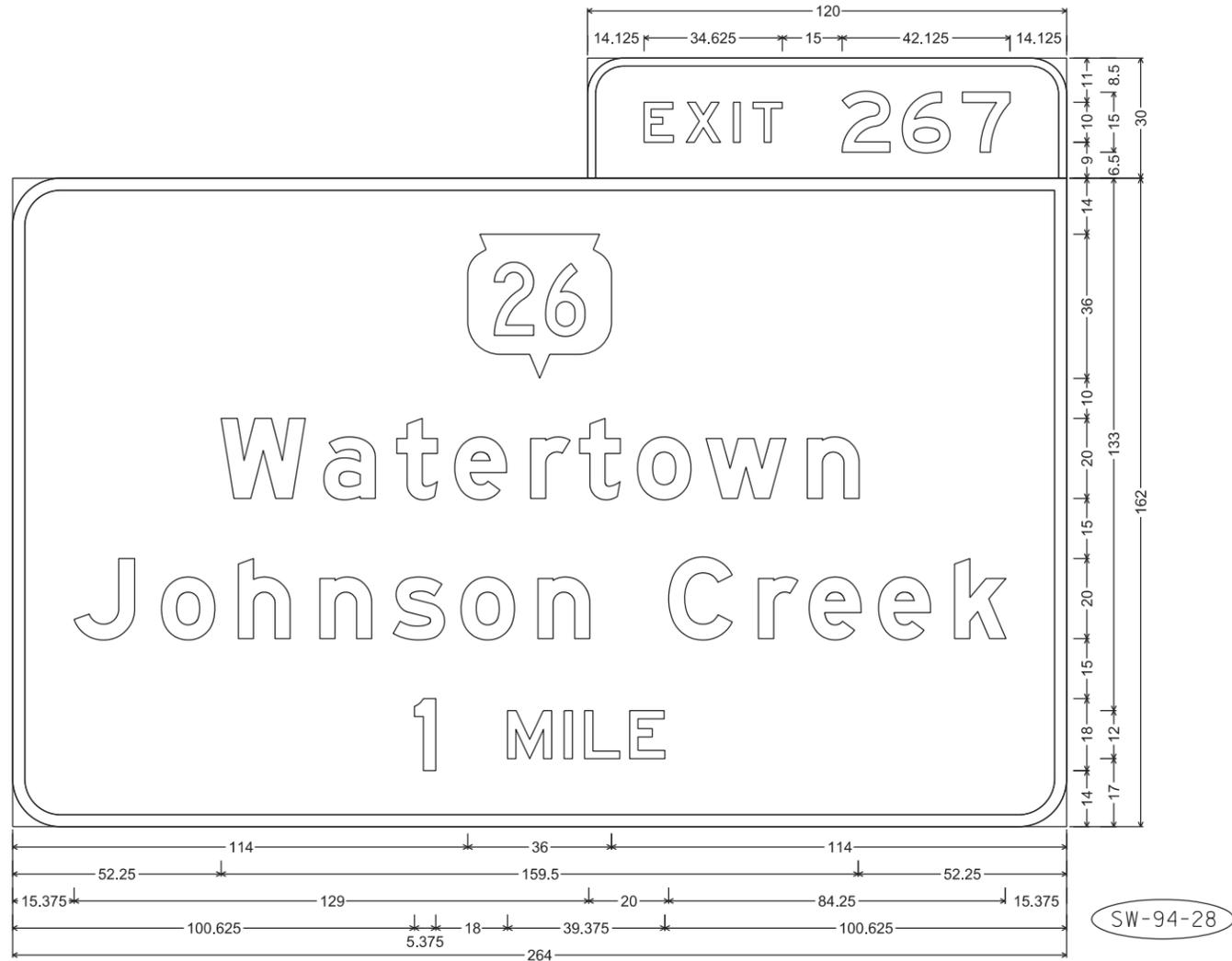


D2-3; 9.000" Radius, 2.000" Border

SW-94-20

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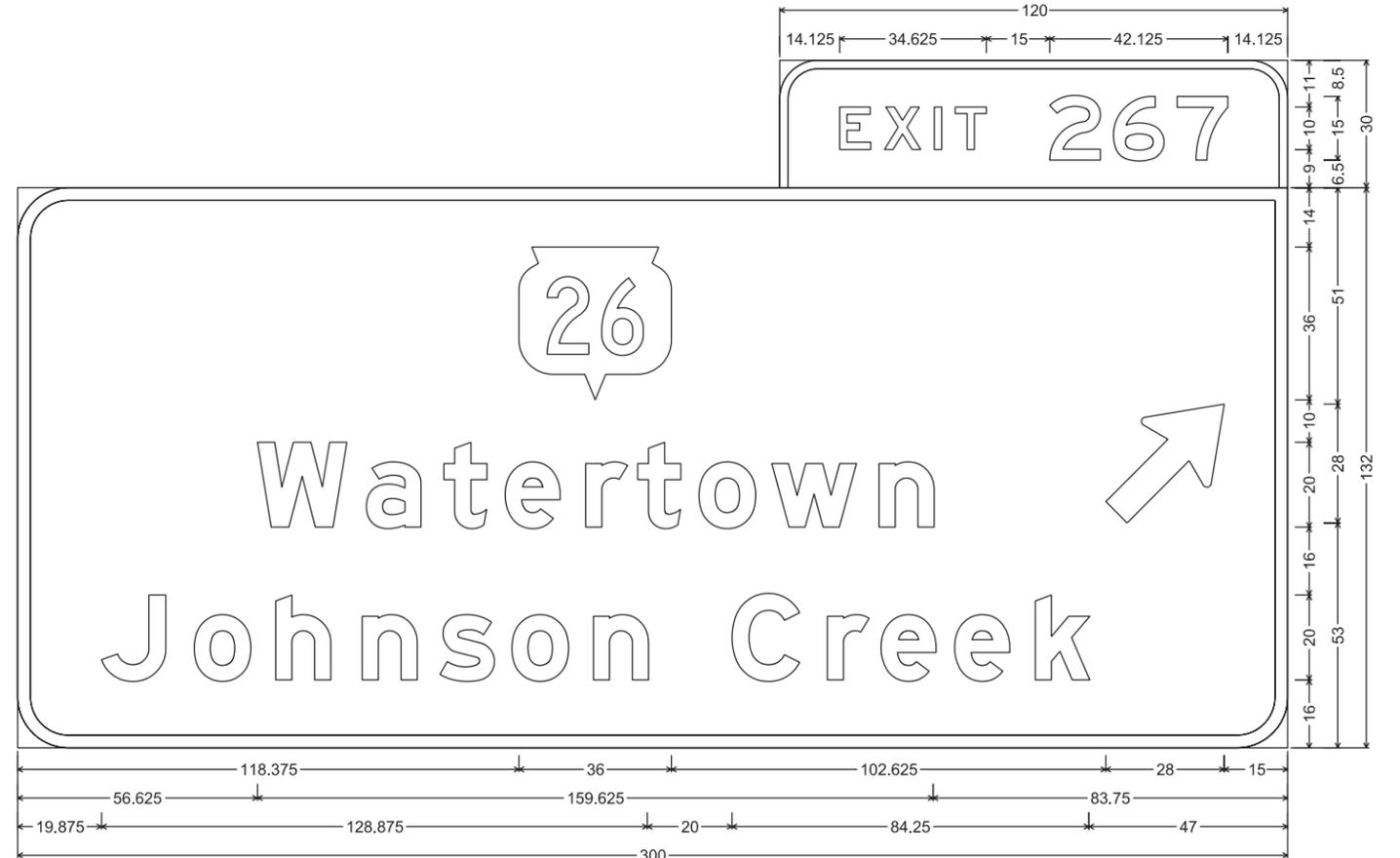


E1-5P; 9.000" Radius, 2.000" Border
 E1-1A; 12.000" Radius, 3.000" Border

SW-94-28

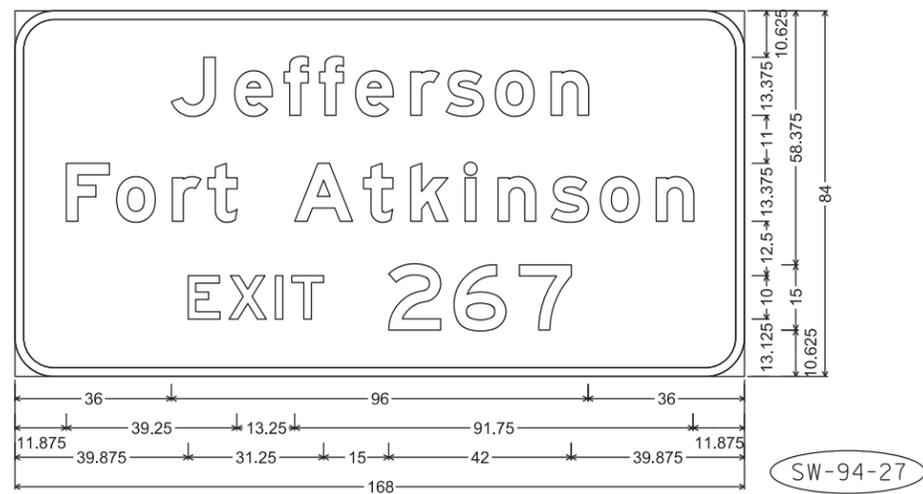
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
 Background - Green
 Message - White
3. Message Series - E Modified except all CAP words Series E



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

SW-94-31

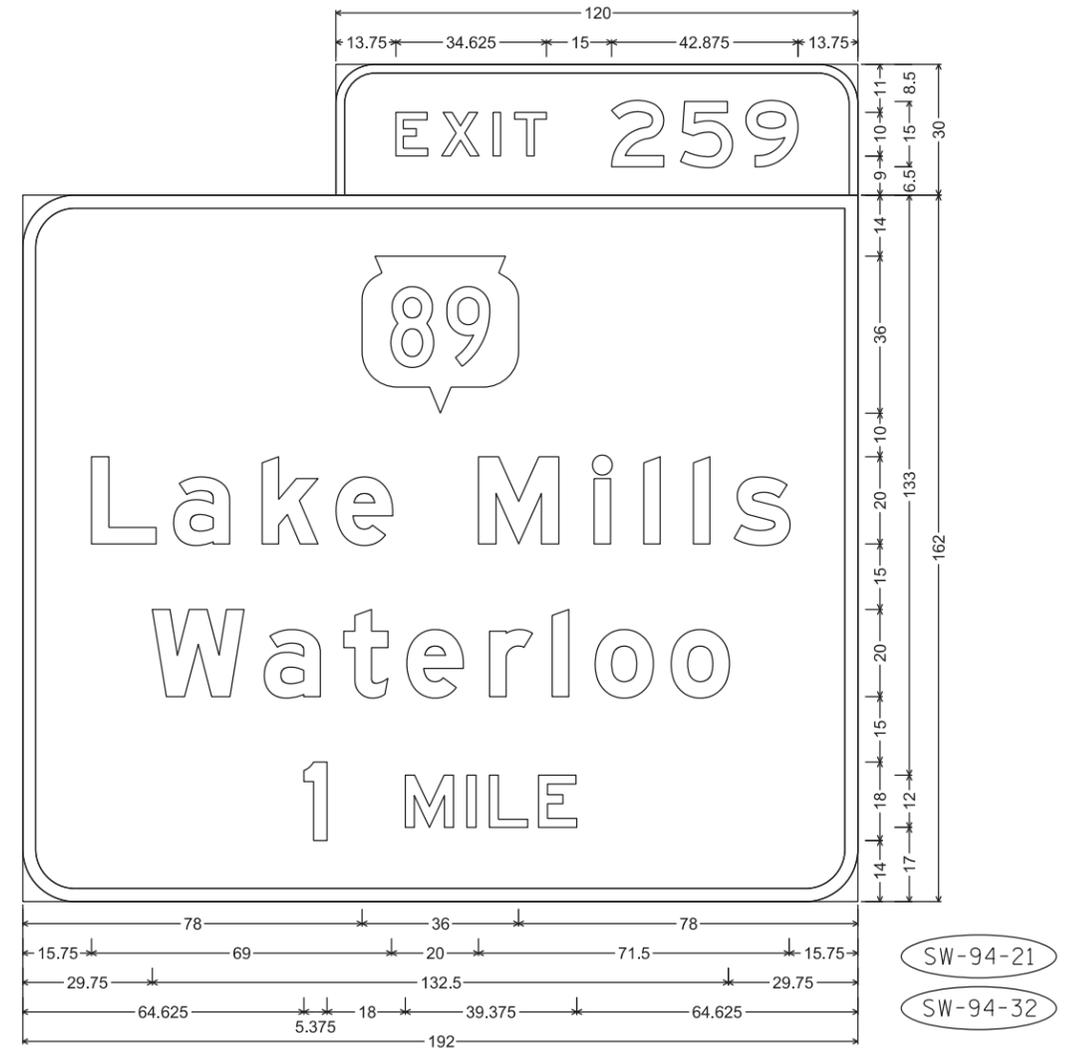
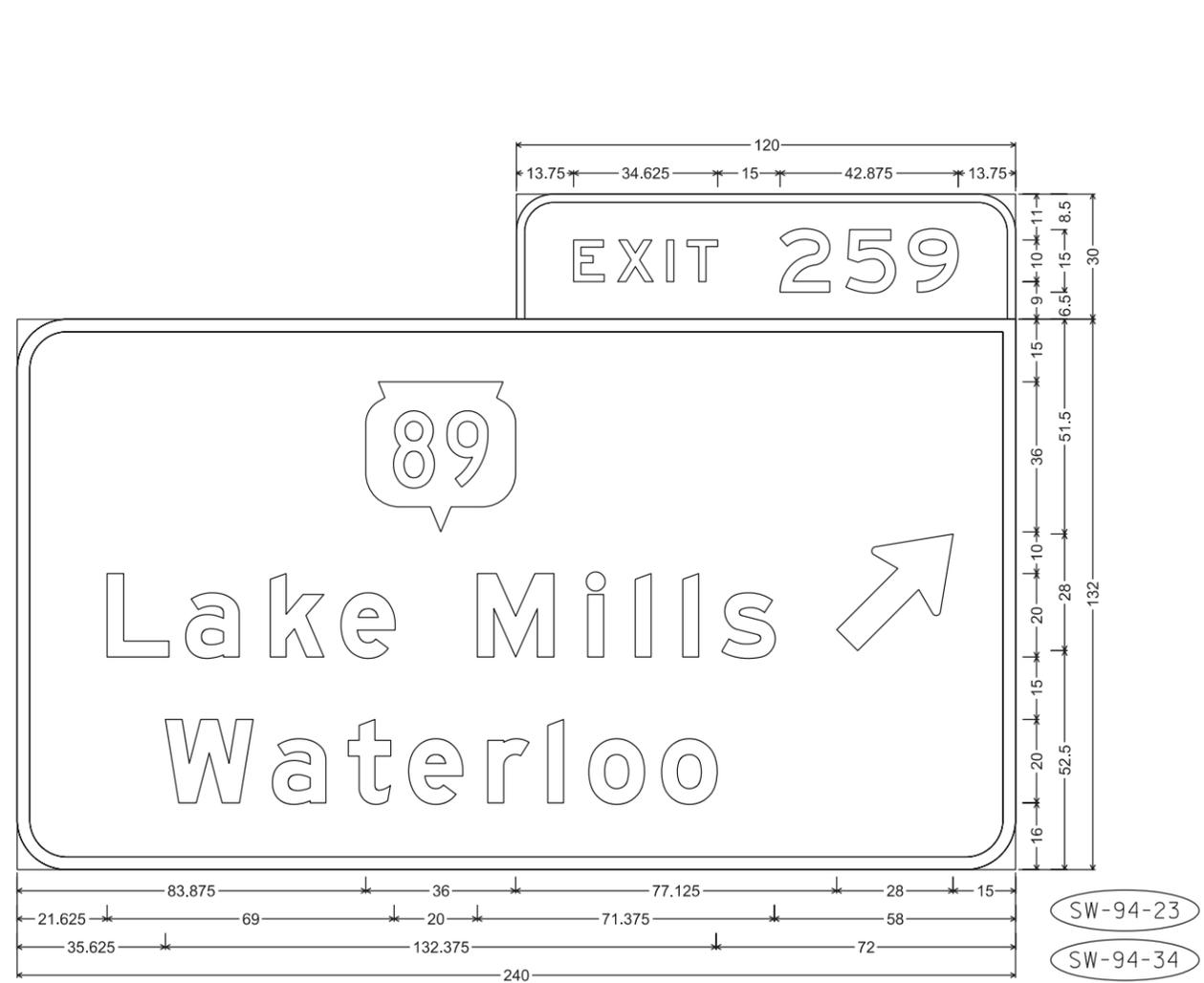


E3-1; 9.000" Radius, 2.000" Border

SW-94-27

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E

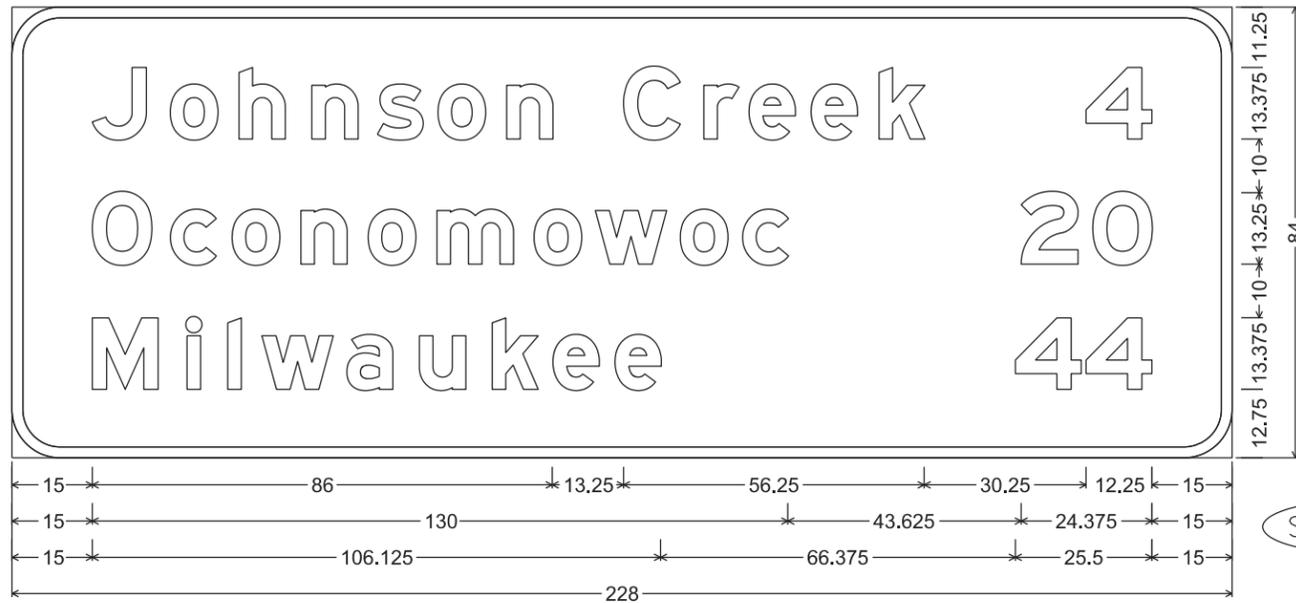


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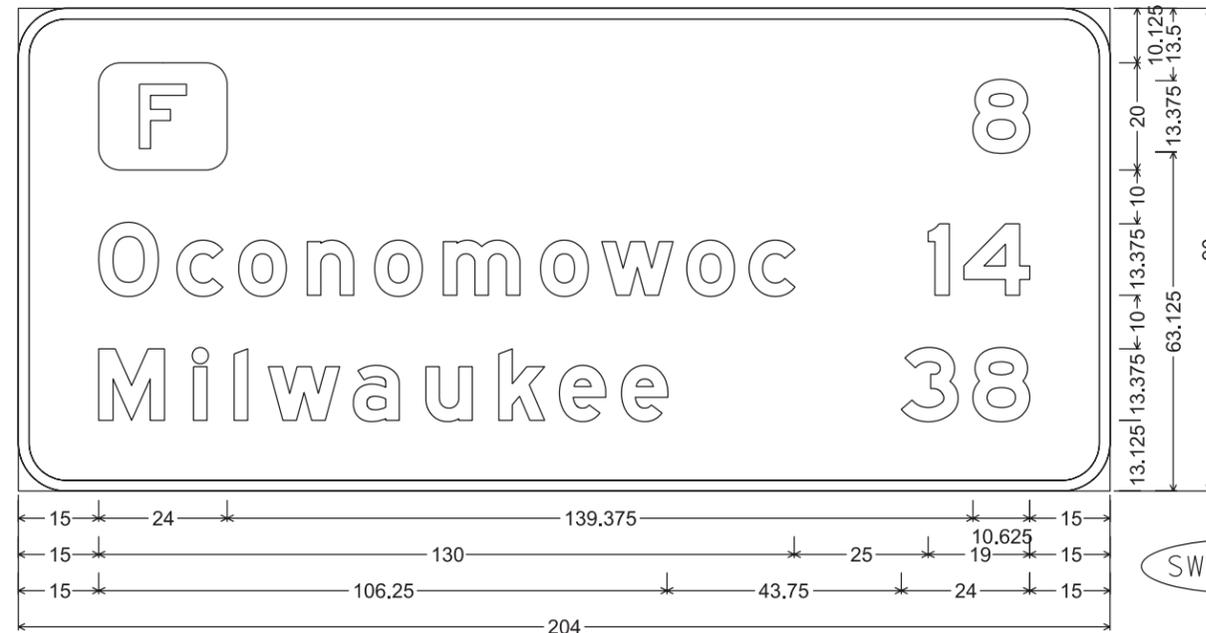
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



SW-94-25

D2-3; 9.000" Radius, 2.000" Border



SW-94-26

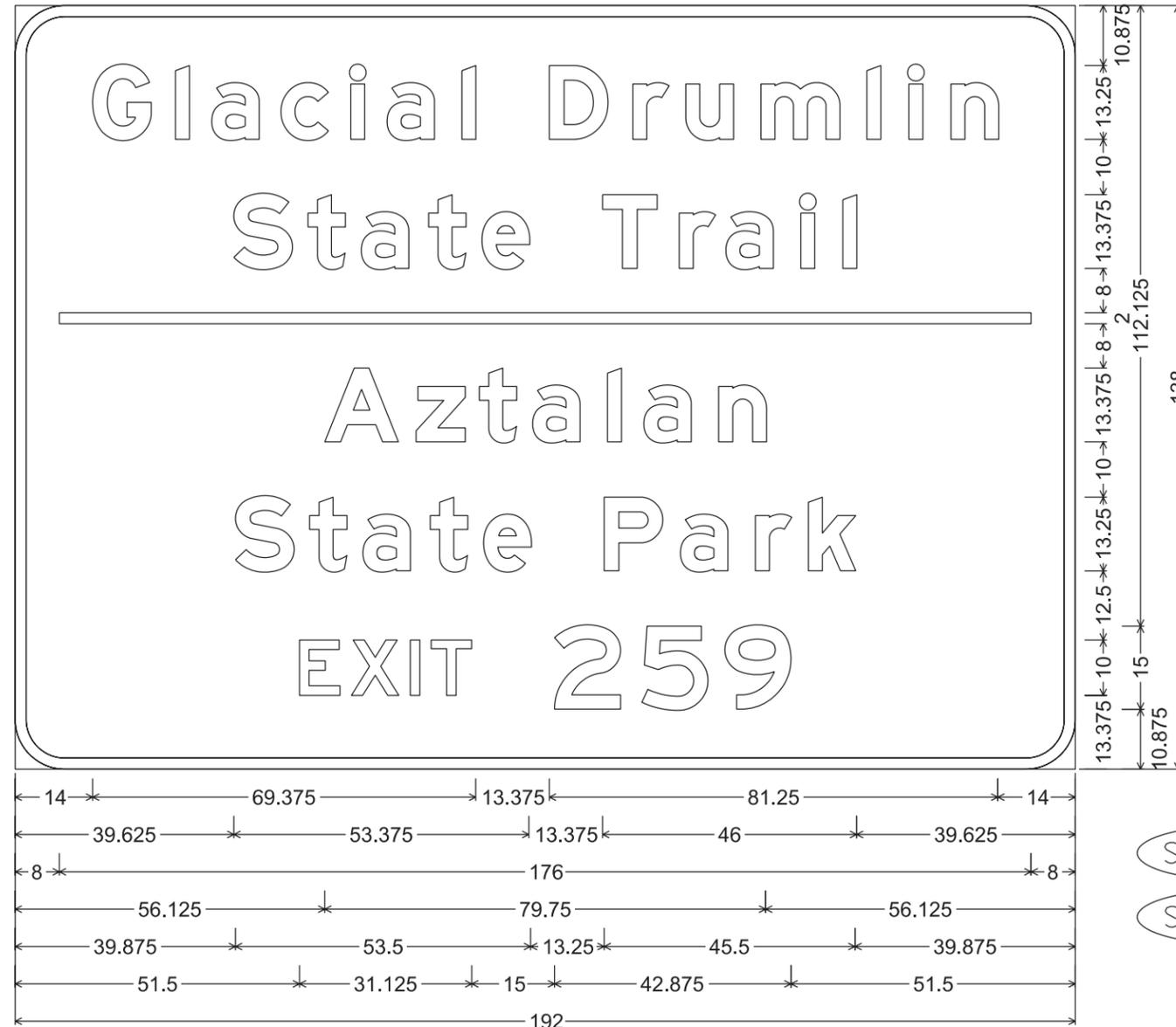
D2-3; 9.000" Radius, 2.000" Border

7

7

NOTES

1. Sign is Type I - Type SH Reflective
2. Color:
Background - Brown
Message - White
3. Message Series - E Modified except all CAP words Series E



E3-1; 9.000" Radius, 2.000" Border

SW-94-22

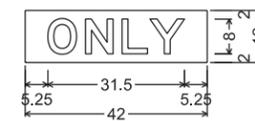
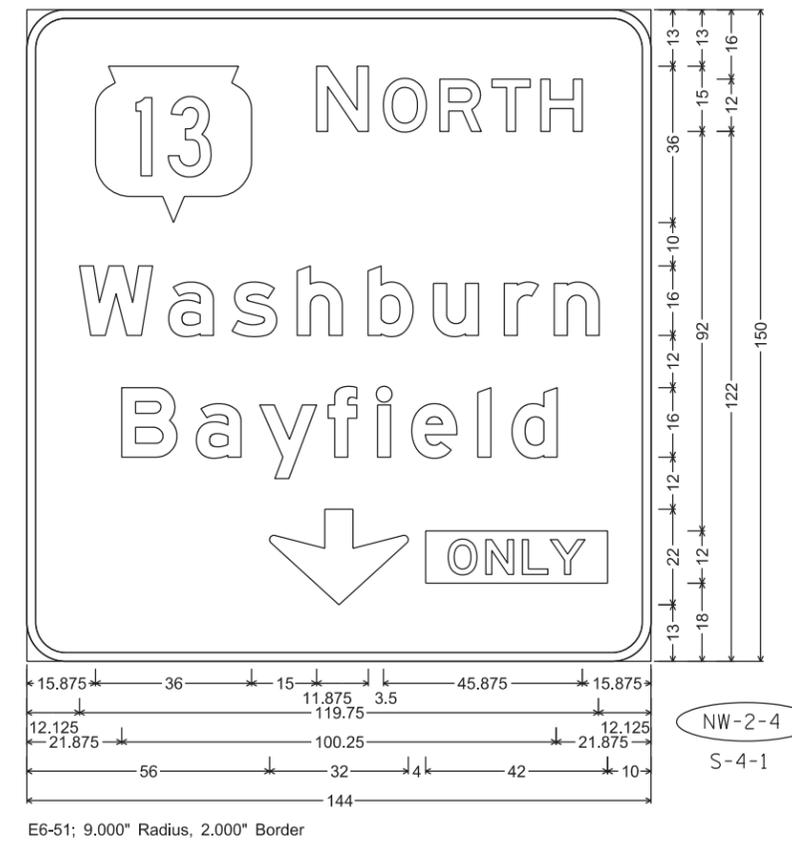
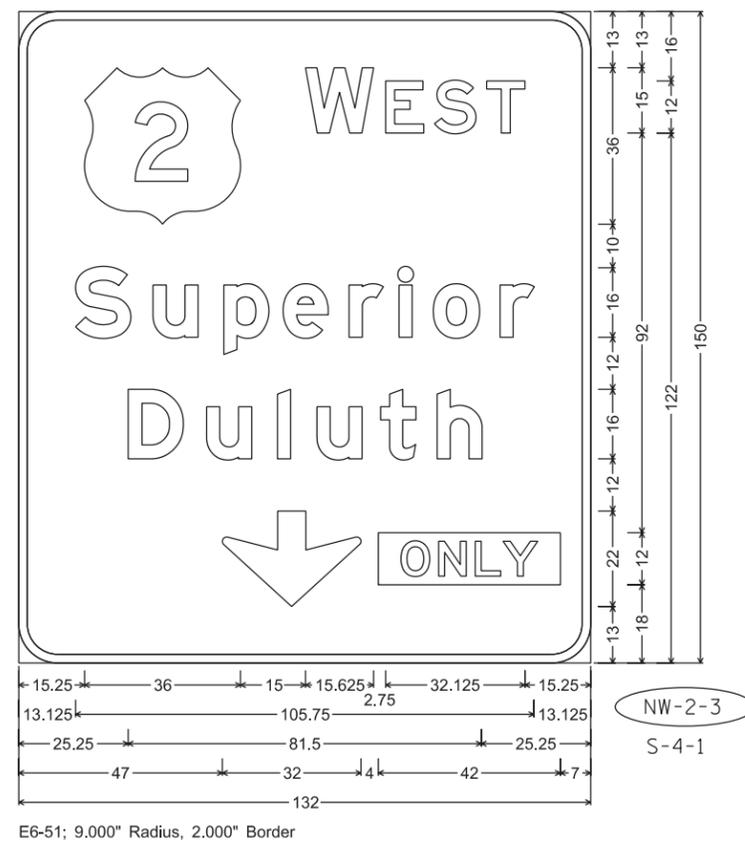
SW-94-33

7

7

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E
4. Only Plaque on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



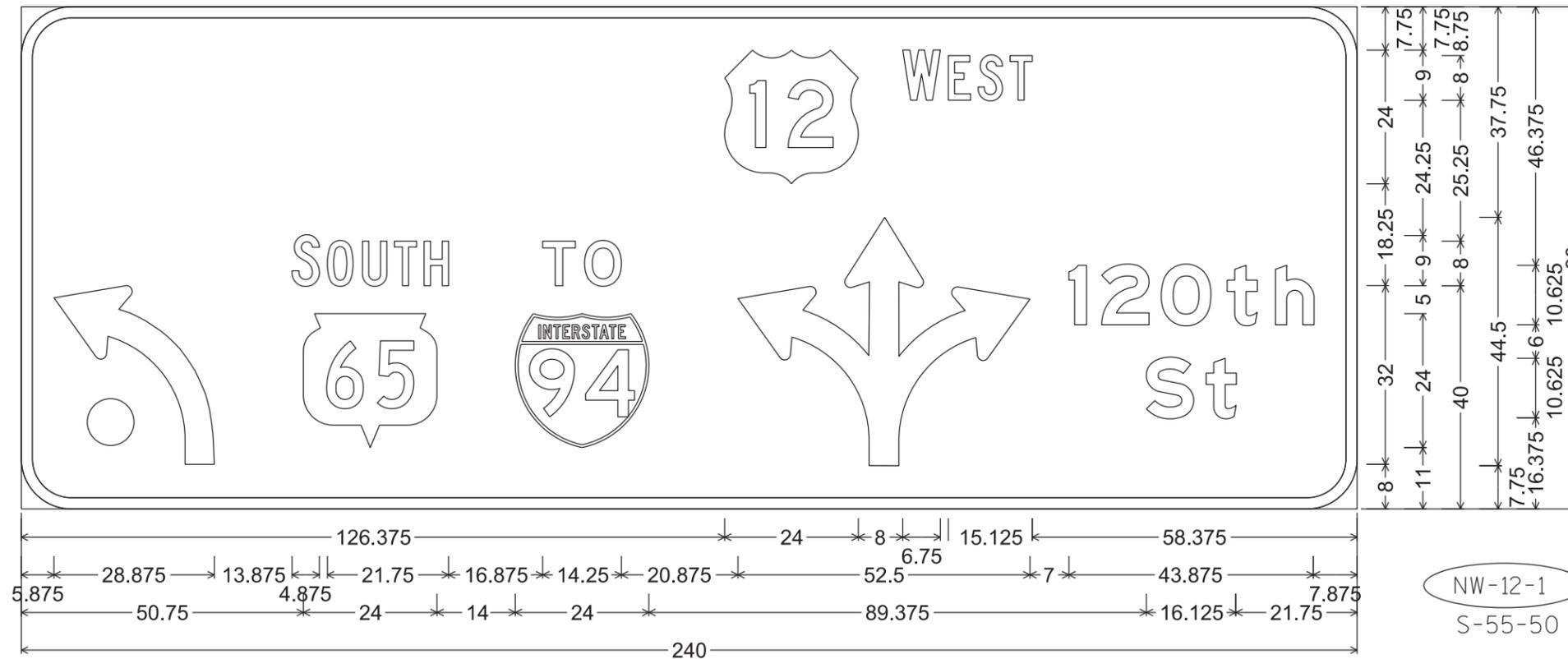
No border, Black on Fluorescent yellow;
"ONLY", E;

7

7

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E
or as noted



E6-51; 9.000" Radius, 2.000" Border
"WEST", C

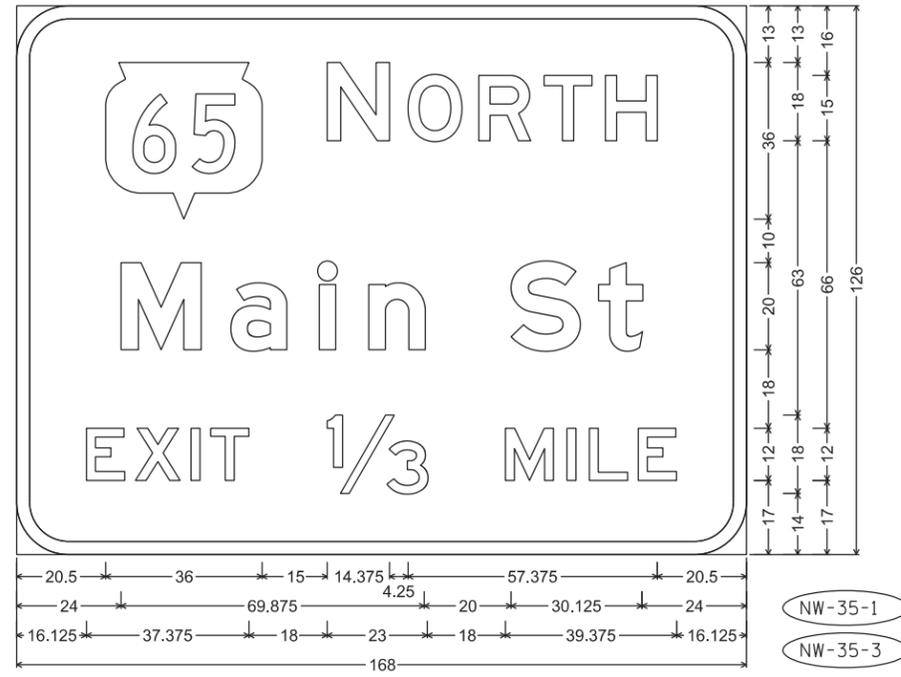
NW-12-1
S-55-50

7

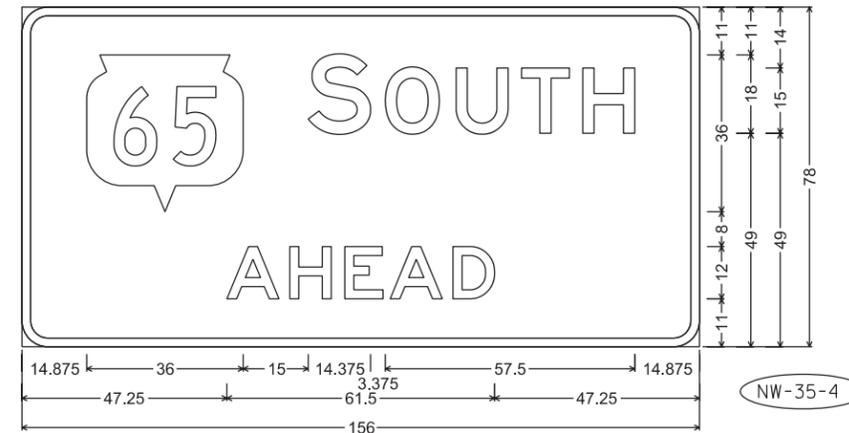
7

NOTES

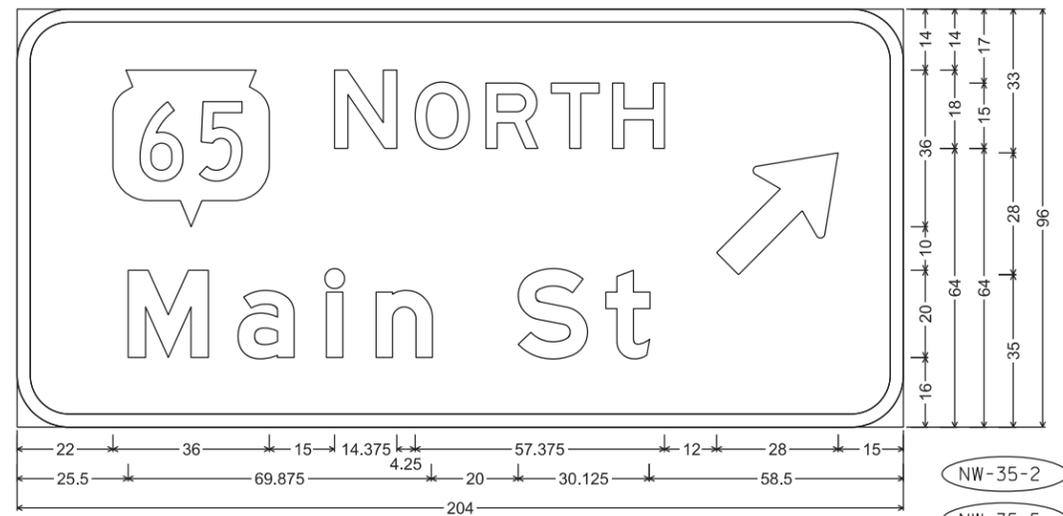
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



E1-1A; 12.000" Radius, 3.000" Border



6.000" Radius, 2.000" Border, White on Green;



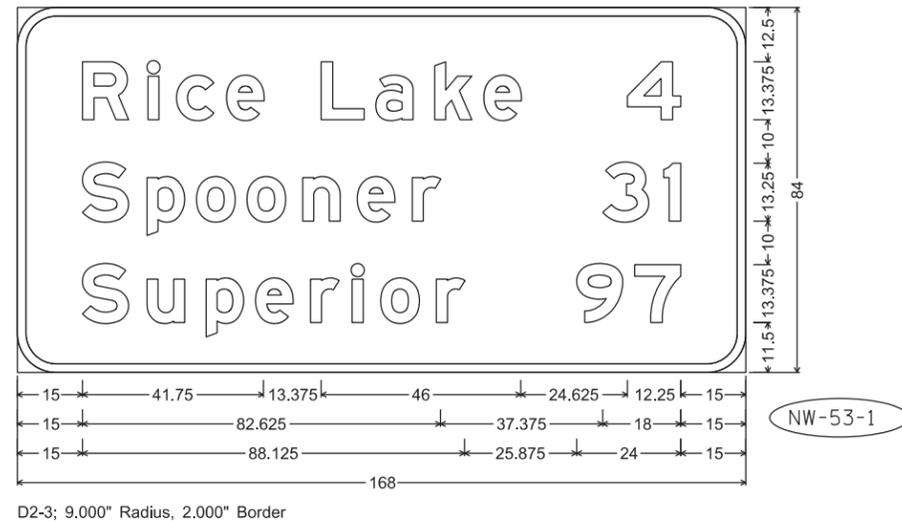
E4-1A; 12.000" Radius, 3.000" Border

7

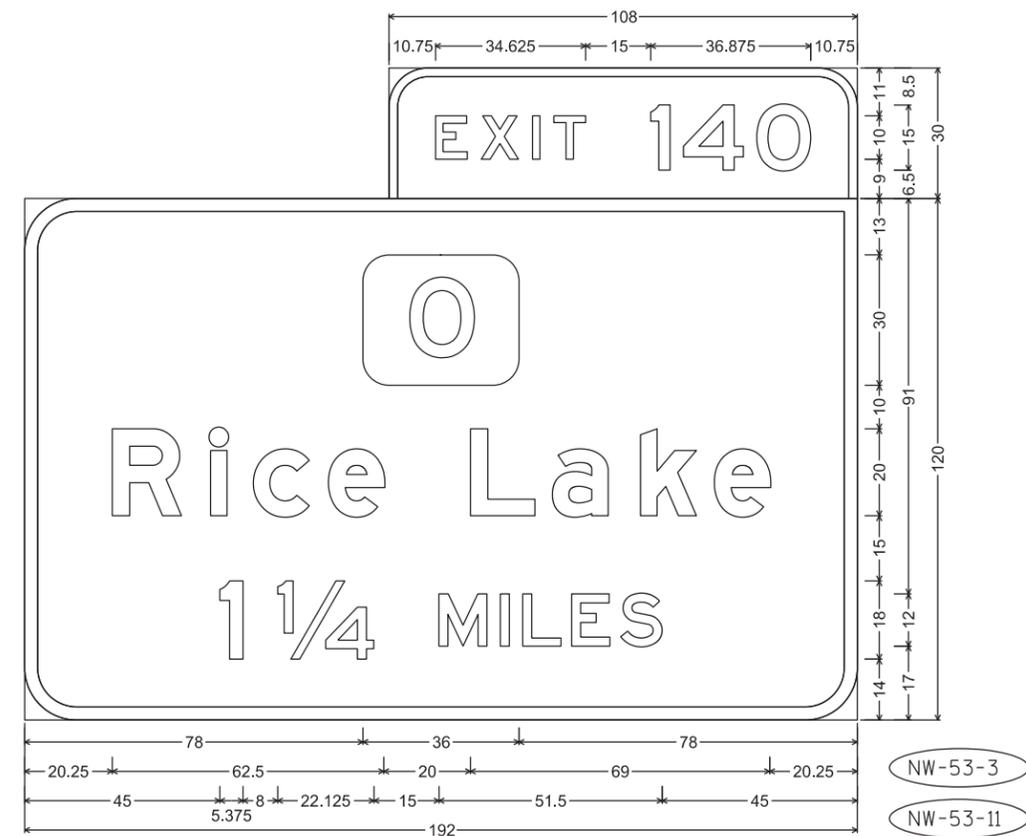
7

NOTES

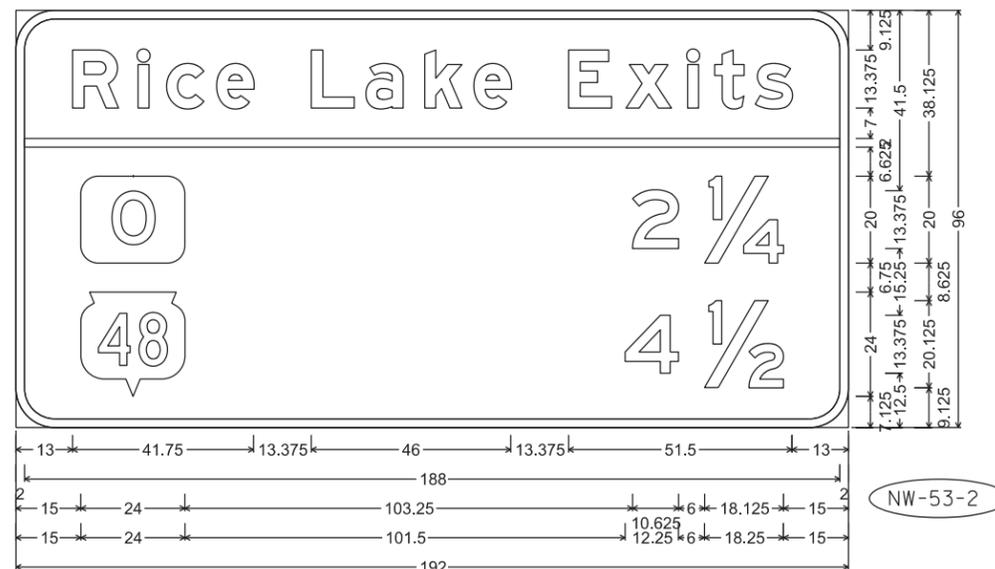
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



D2-3; 9.000" Radius, 2.000" Border



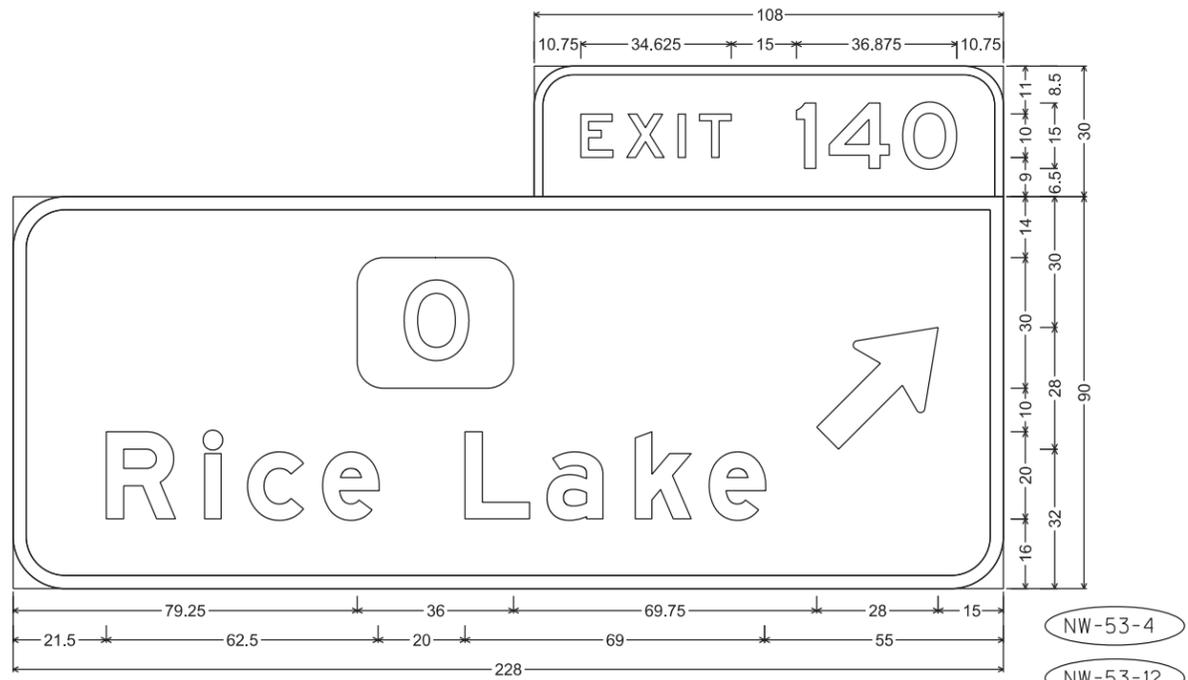
E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border



E8-1; 9.000" Radius, 2.000" Border

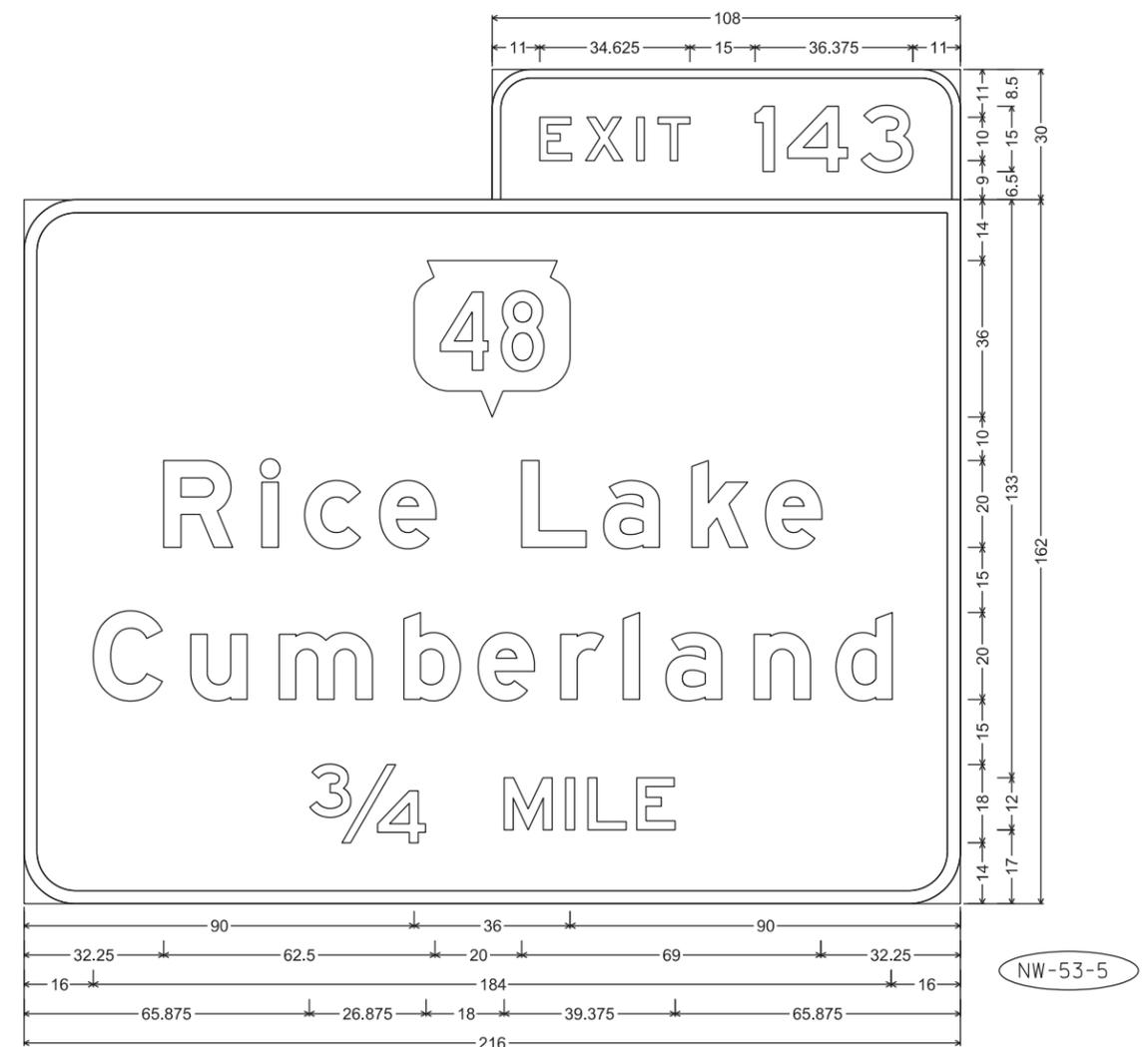
7

7

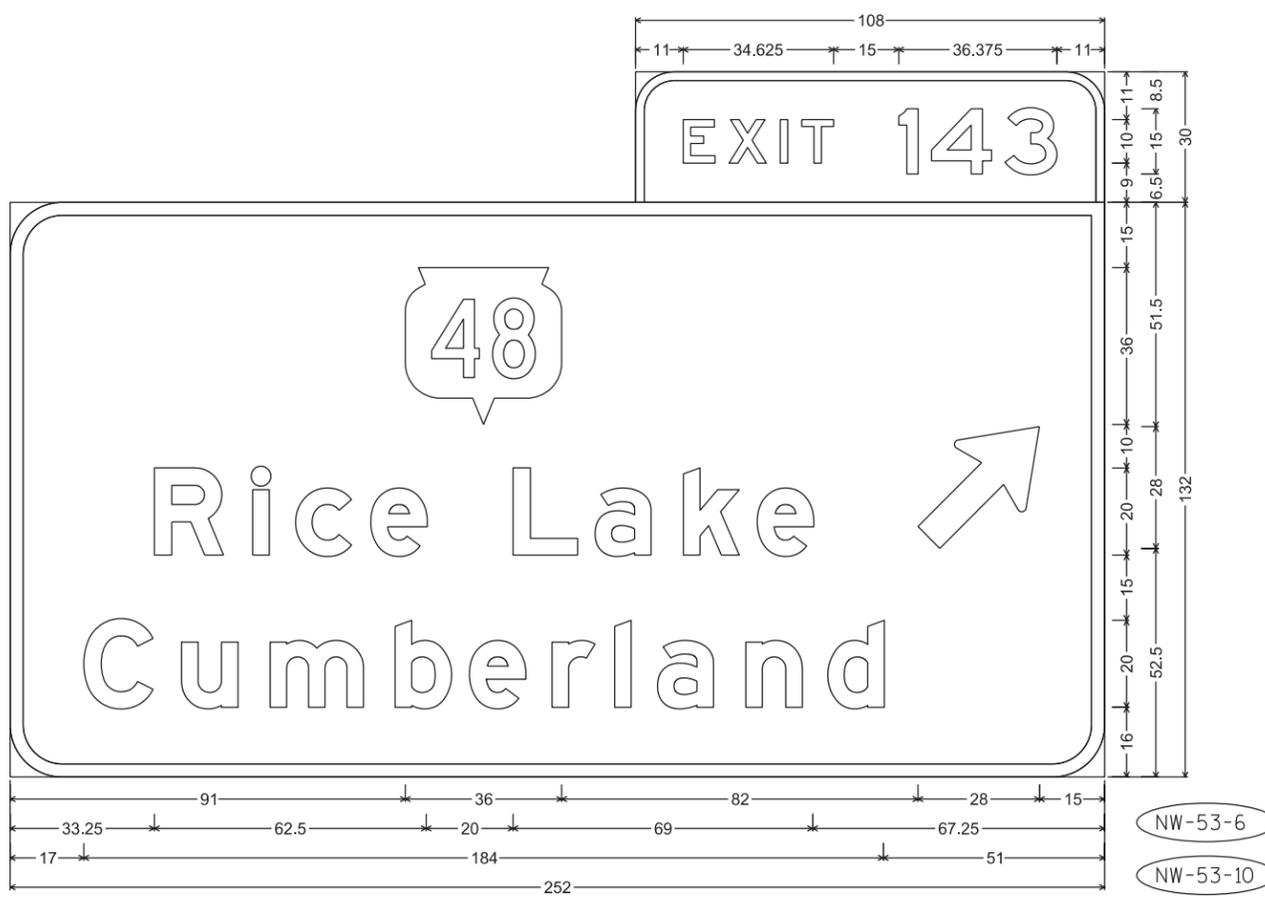


E1-5P; 9.000" Radius, 2.000" Border
 E4-1A; 12.000" Radius, 3.000" Border

- NOTES
1. All Signs Type I - Type SH Reflective
 2. Color:
 Background - Green
 Message - White
 3. Message Series - E Modified except all CAP words Series E



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

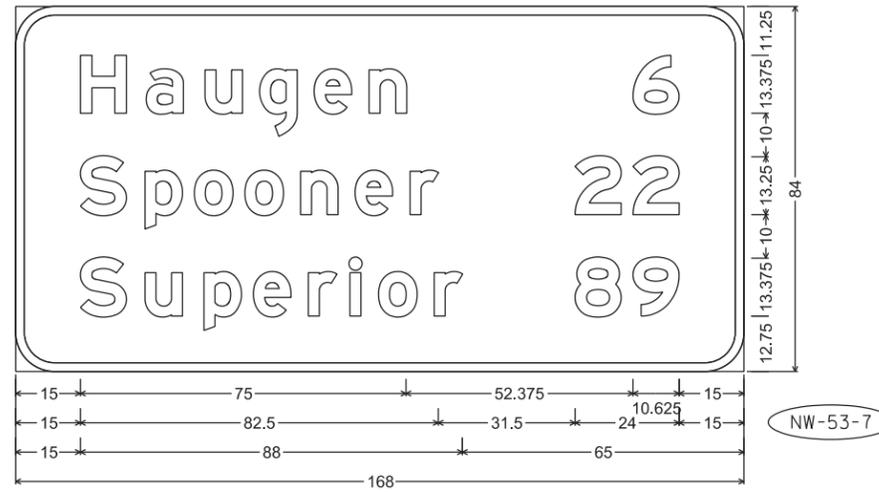


E1-5P; 9.000" Radius, 2.000" Border
 E4-1A; 12.000" Radius, 3.000" Border



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

NW-53-14

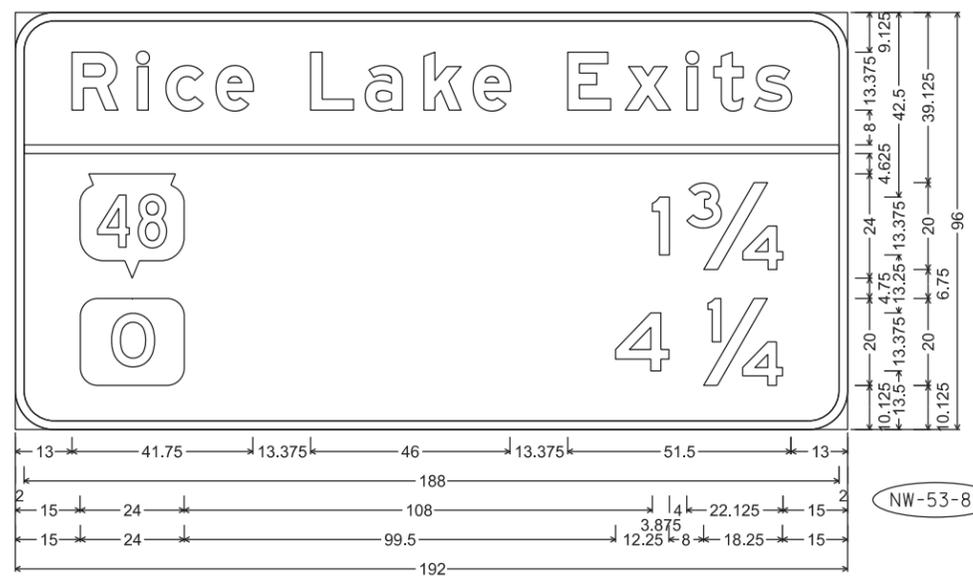


D2-3; 9.000" Radius, 2.000" Border

NW-53-7

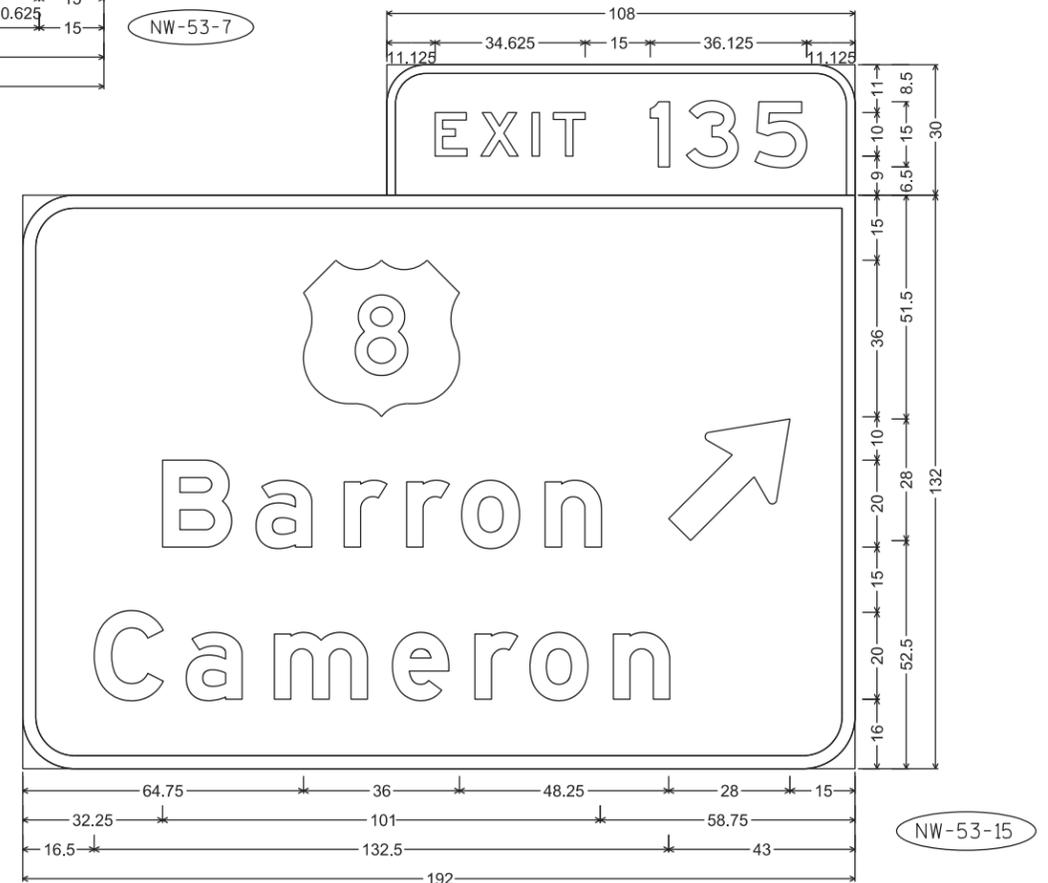
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
 Background - Green
 Message - White
3. Message Series - E Modified except all CAP words Series E



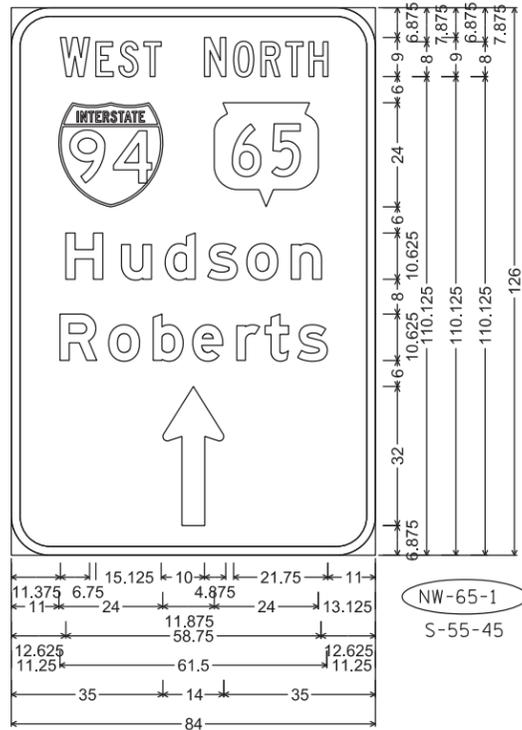
E8-1; 9.000" Radius, 2.000" Border

NW-53-8



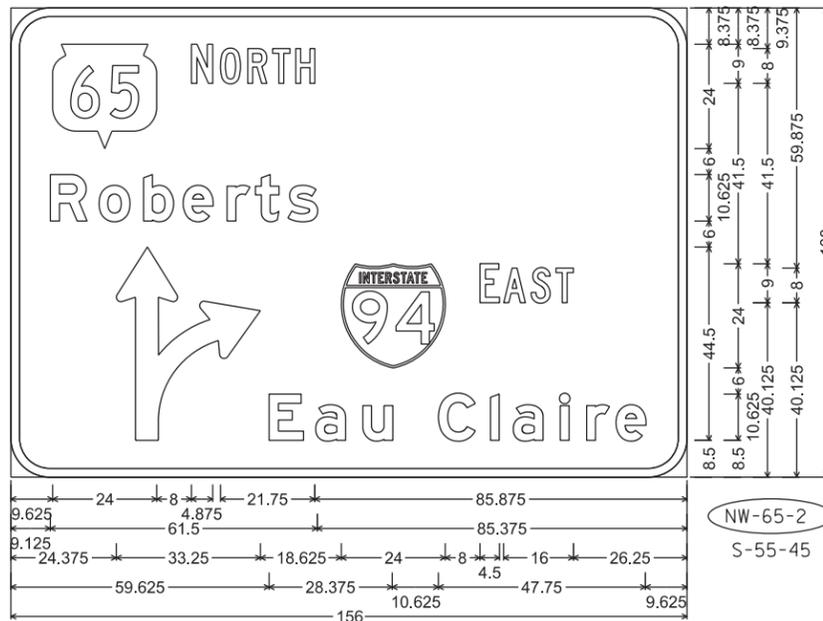
E1-5P; 9.000" Radius, 2.000" Border
 E4-1A; 12.000" Radius, 3.000" Border

NW-53-15



NW-65-1
S-55-45

E6-54A; 9.000" Radius, 2.000" Border
"WEST", C; "NORTH", C

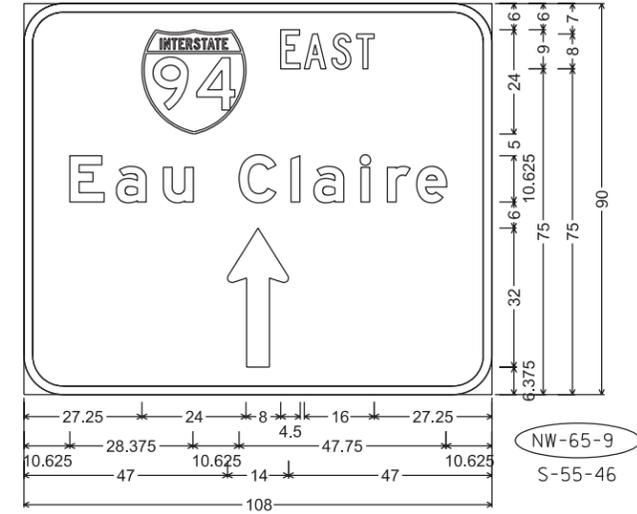


NW-65-2
S-55-45

E6-53; 9.000" Radius, 2.000" Border
"NORTH", C; "EAST", C

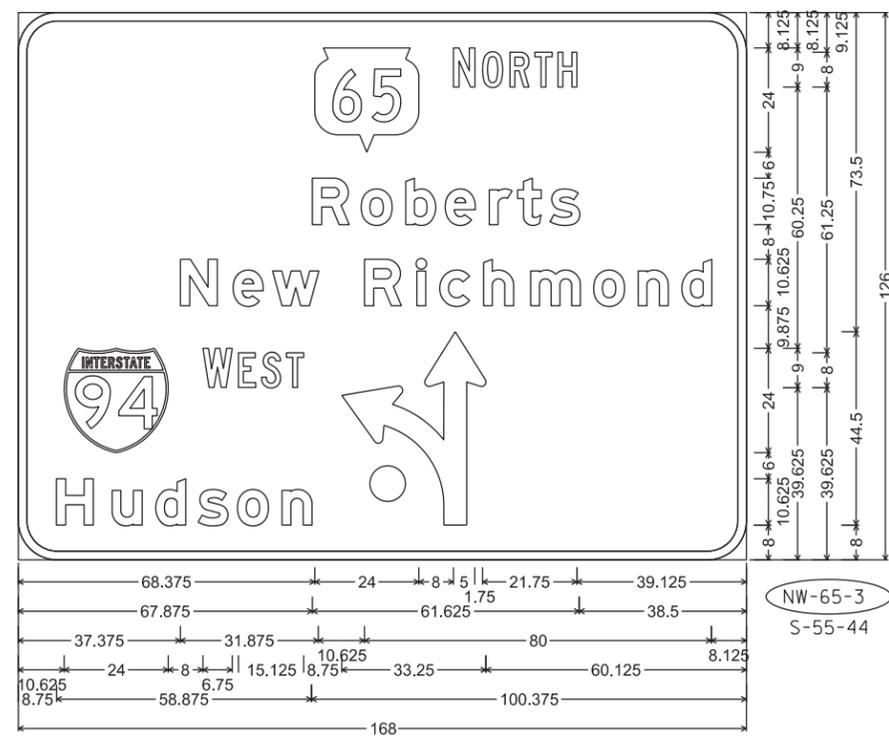
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E or as noted



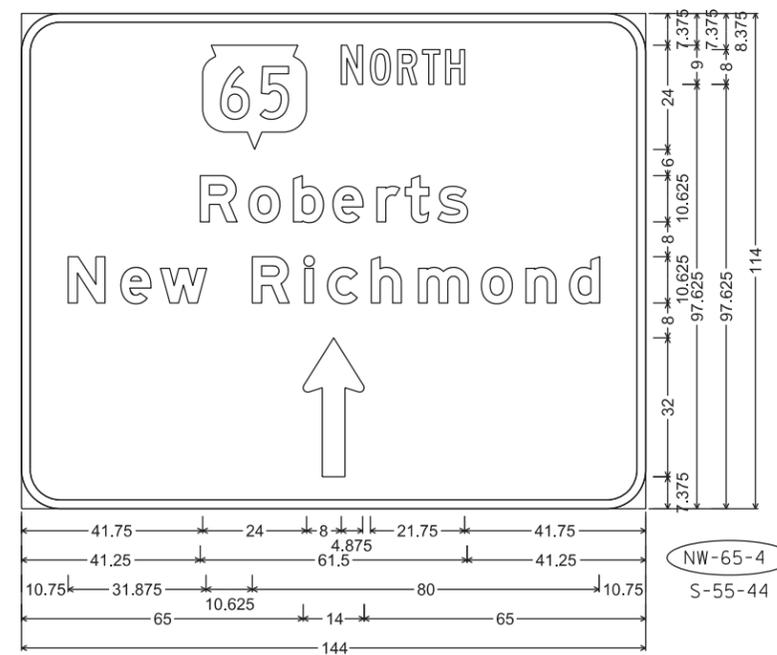
NW-65-9
S-55-46

E6-54A; 9.000" Radius, 2.000" Border
"EAST", C



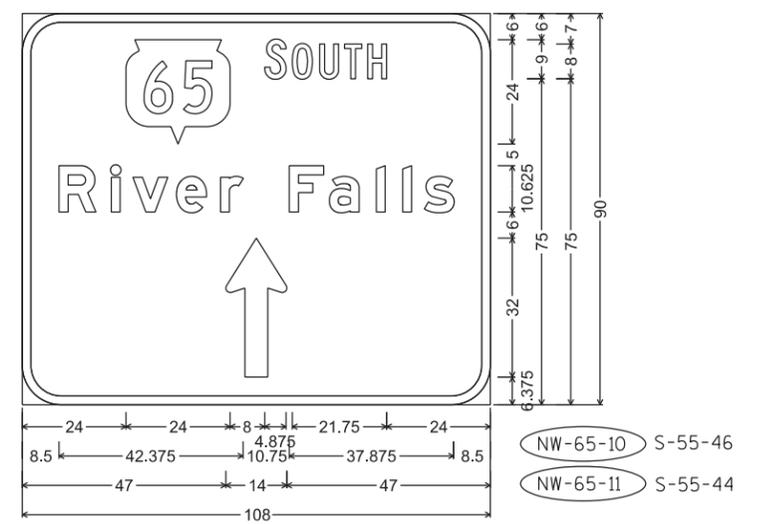
NW-65-3
S-55-44

E6-52; 9.000" Radius, 2.000" Border
"NORTH", C



NW-65-4
S-55-44

E6-54A; 9.000" Radius, 2.000" Border
"NORTH", C



NW-65-10 S-55-46
NW-65-11 S-55-44

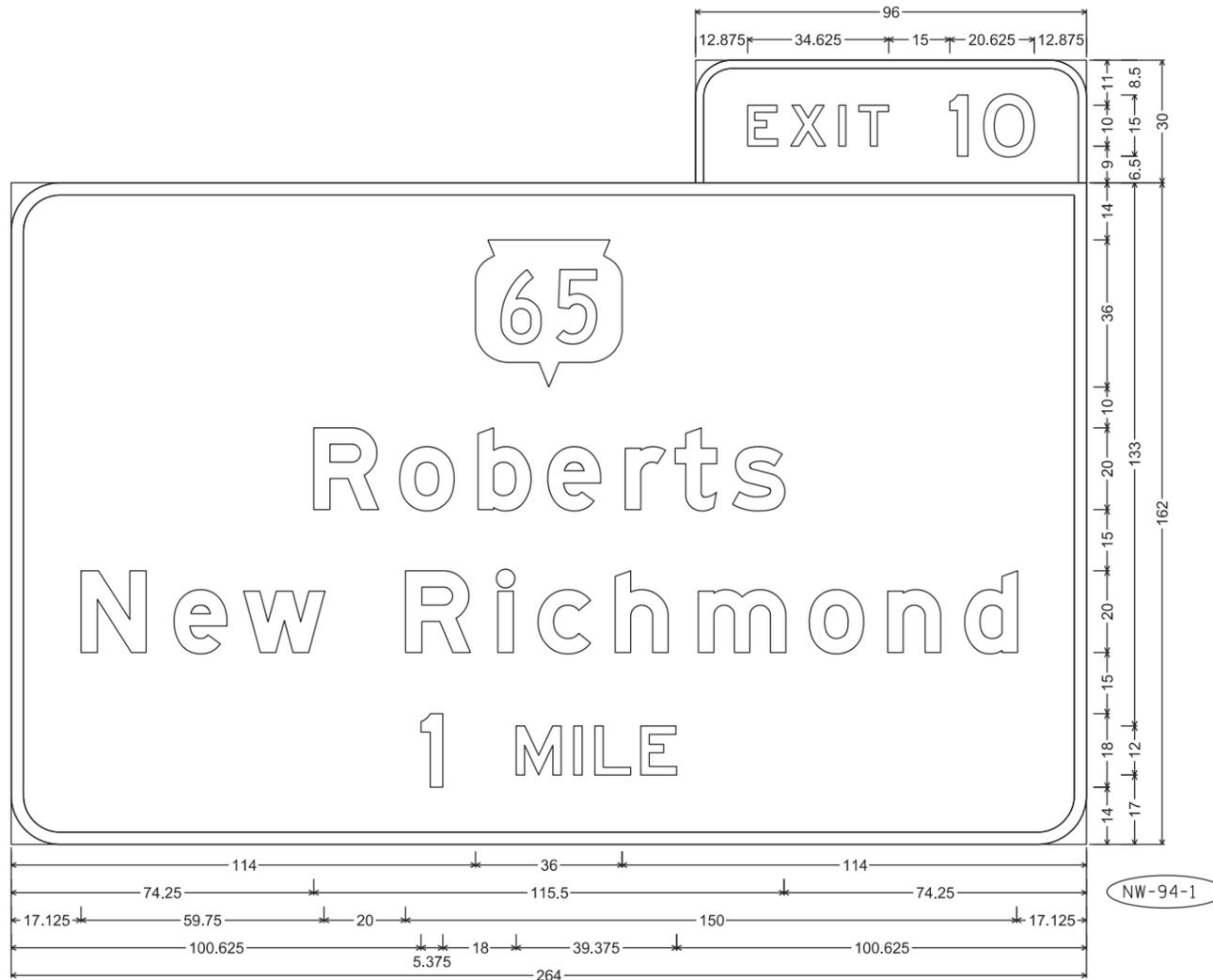
E6-54A; 9.000" Radius, 2.000" Border
"SOUTH", C

7

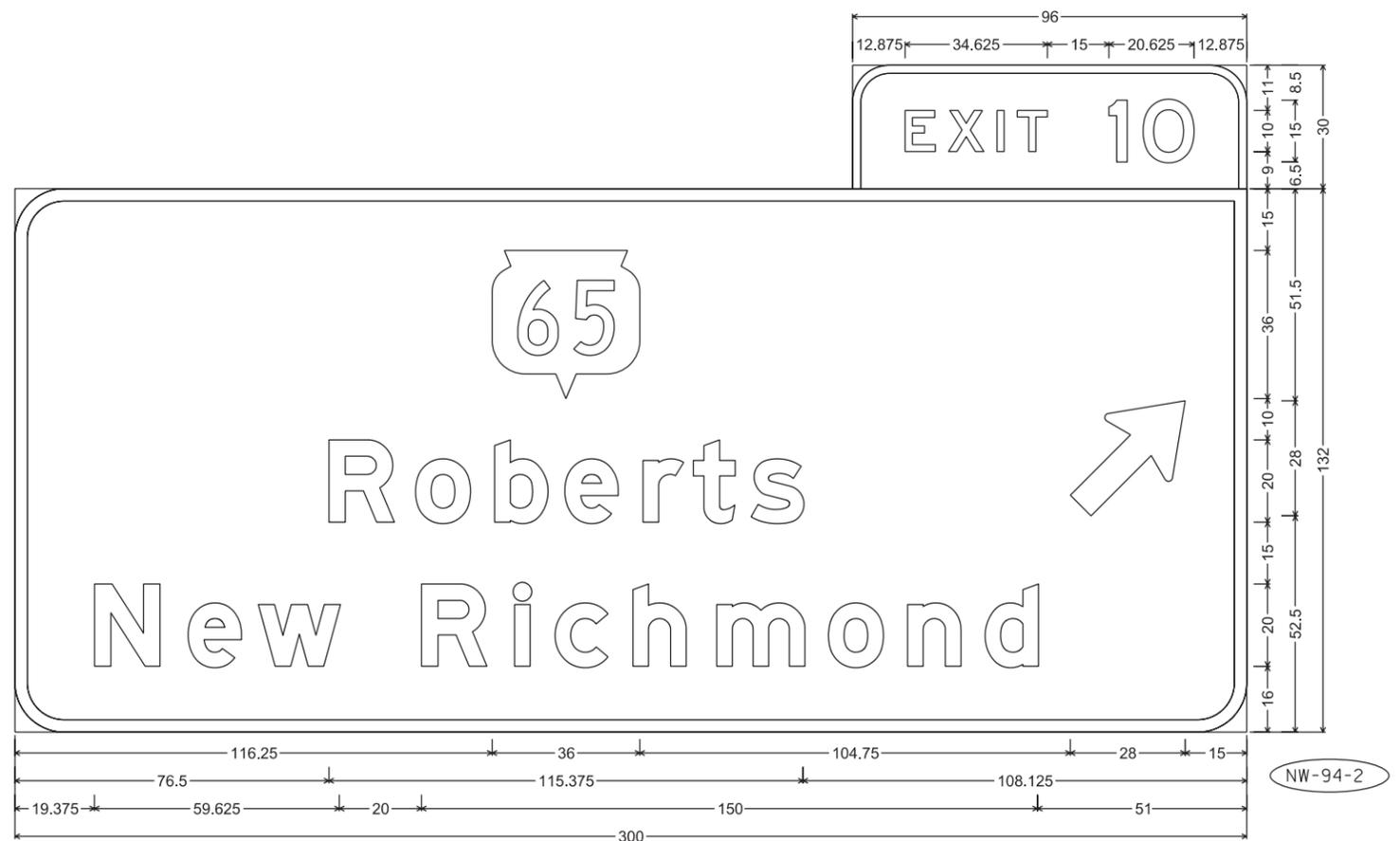
7

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



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



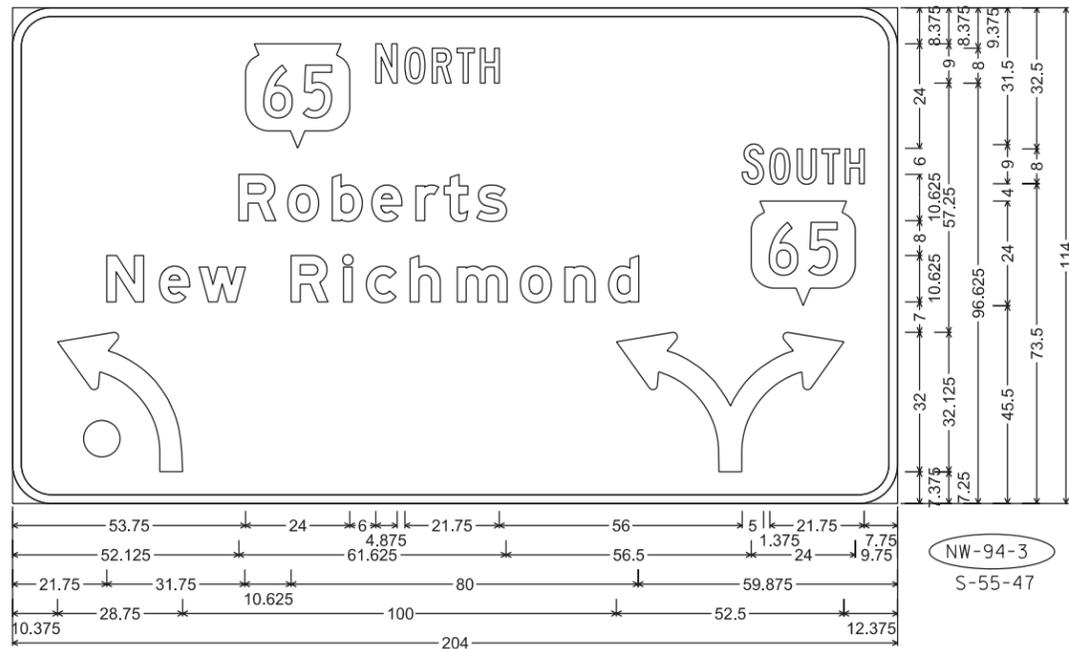
E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 12.000" Radius, 3.000" Border

7

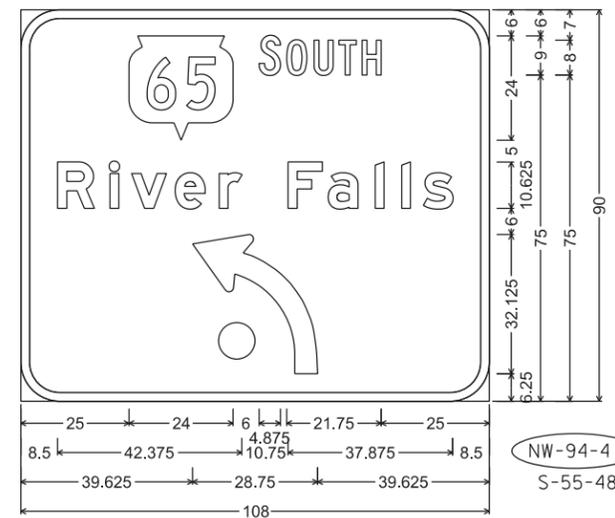
7

NOTES

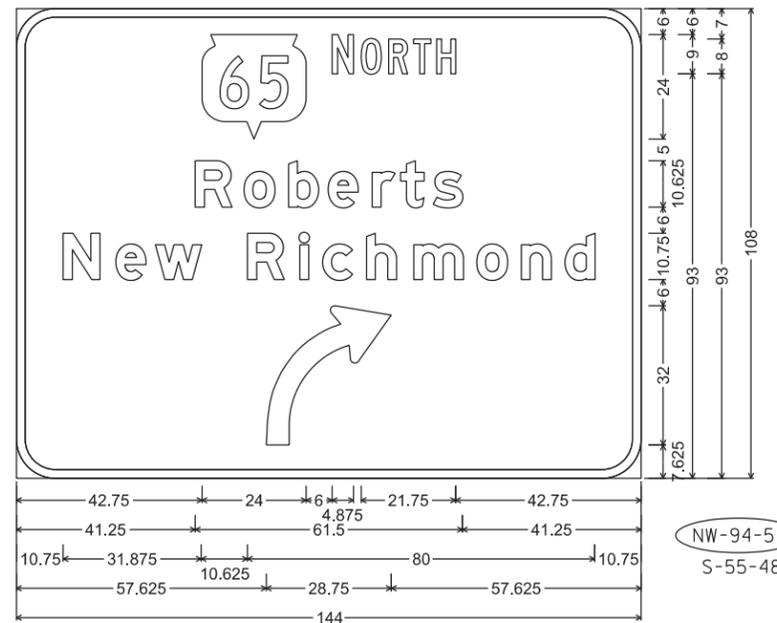
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E or as noted



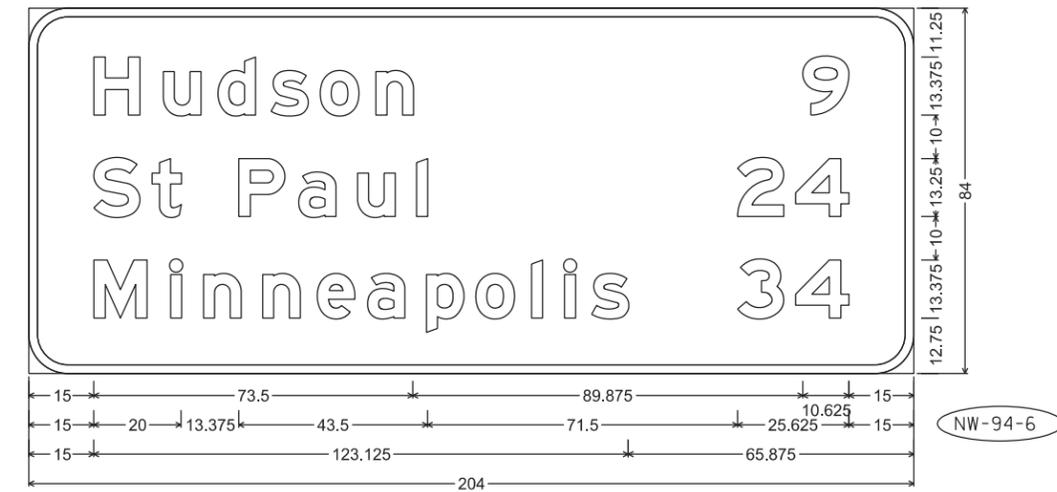
E6-54R; 9.000" Radius, 2.000" Border
"NORTH", C; "SOUTH", C



E6-54L; 9.000" Radius, 2.000" Border
"SOUTH", C



E6-54R; 9.000" Radius, 2.000" Border
"NORTH", C



D2-3; 9.000" Radius, 2.000" Border

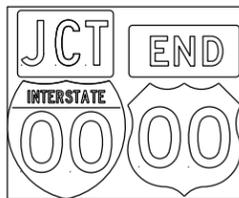
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7

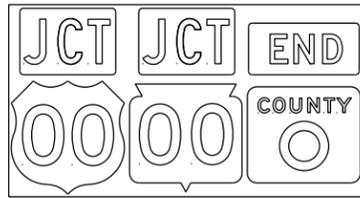
TYPICAL ASSEMBLIES



J1-1



J1-2



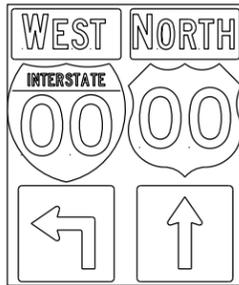
J1-3



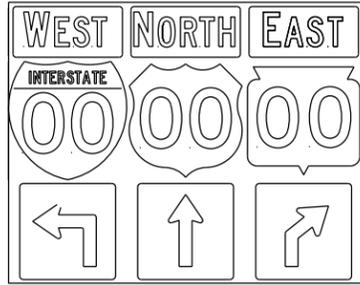
JR1-1



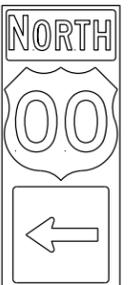
J2-1



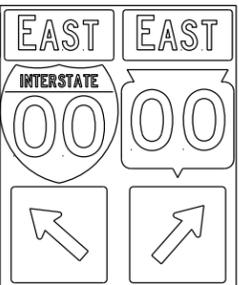
J2-2



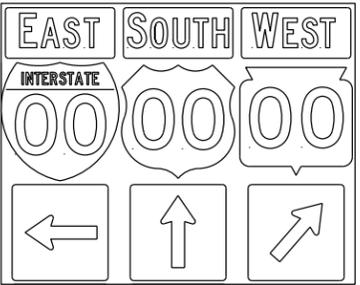
J2-3



J3-1



J3-2



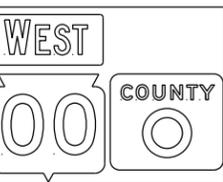
J3-3



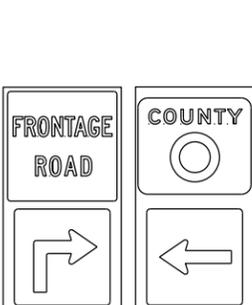
J4-1



J4-2



J4-2



J12-1



J13-1



J32-1



J33-1



J22-1



J23-1



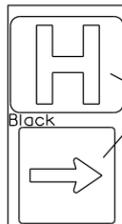
JR13-1



JR23-1



JR99-1

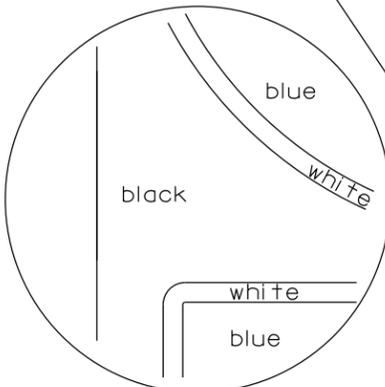


JH-1

Blue Background

Black

blue background with interstate

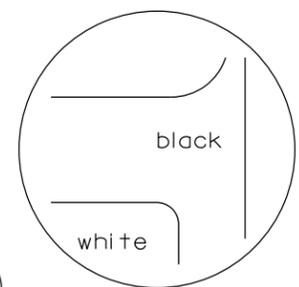
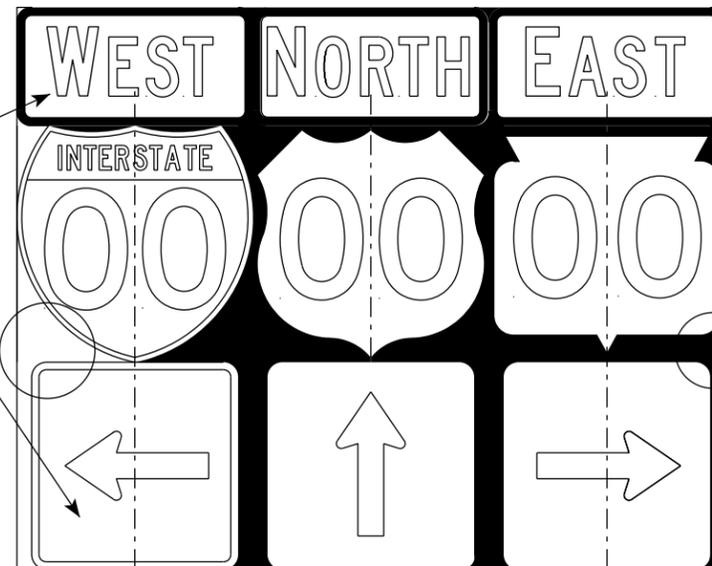


JV

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

NOTES

- Signs are Type II - Type H Reflective
- Color:
 - Background - Black Non-reflective
 - Message - see Note 4
- Message Series - See Note 4
- The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
- Certain marker heads require the component pieces to be the same color. As an example, all the components used with an MI-1 Interstate marker shall be blue.
- Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
- Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
- Route assemblies that have 36 inch shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
- All Vertical J Assemblies are given a Sign Code of JV
- For JV Assemblies that have a mixture of Interstate and Non-Interstate shields, arrows and cardinals shall be white on blue.
- For JV Assemblies that have a mixture of Non-Interstate and Auto-Tour shields, arrows and cardinals shall be black on white.



black background

ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

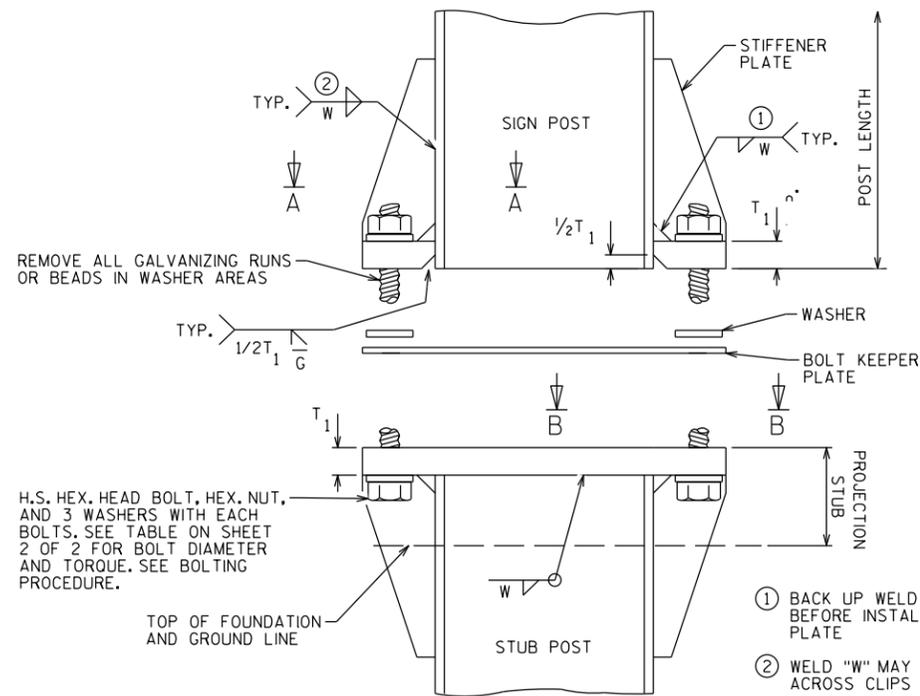
APPROVED *Matthew R. Raub*
For State Traffic Engineer

DATE 6/7/23 PLATE NO. A2-1S.10

PROJECT NO:

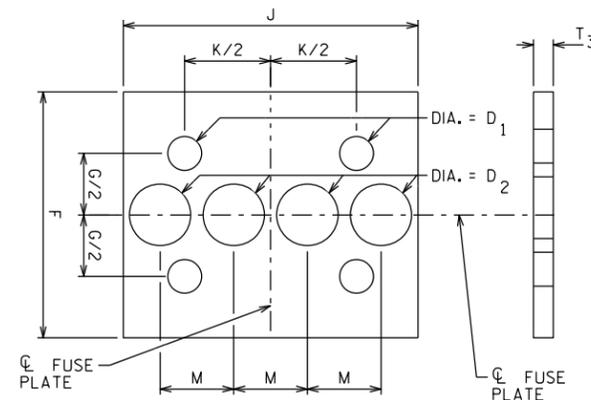
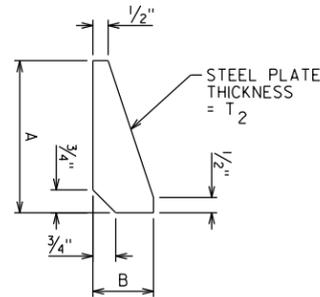
SHEET NO:

E



SIGN POST & STUB POST ELEVATION

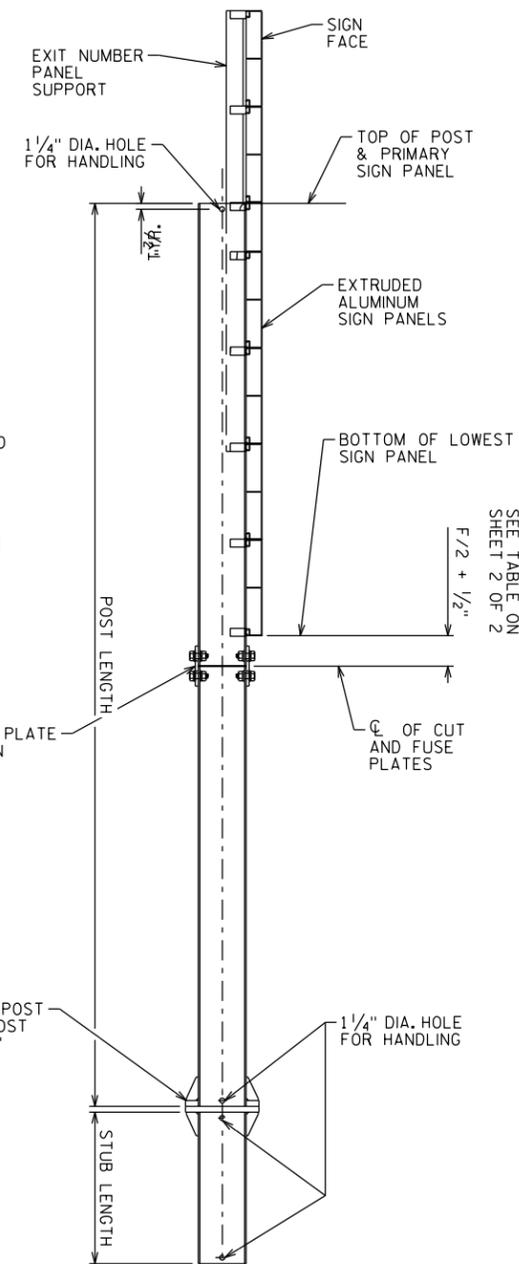
STIFFENER PLATE DETAIL
(REFER TO TABLE ON SHEET 2 OF 2 FOR DIMENSIONS)



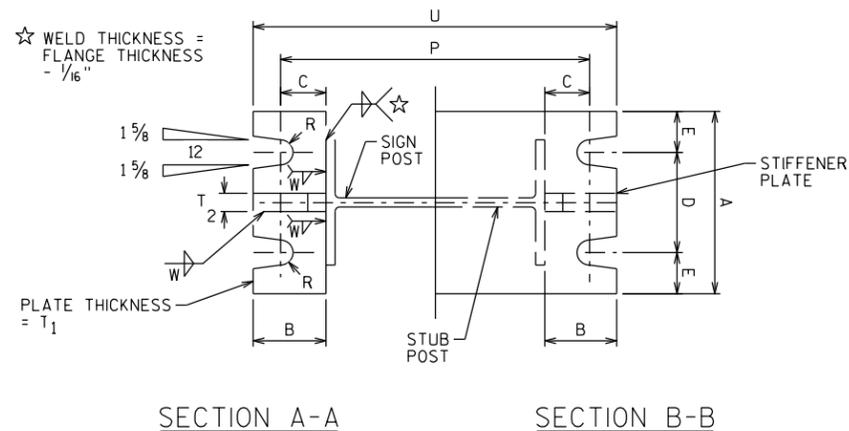
PERFORATED FUSE PLATE DETAIL

USE H.S. HEX HEAD BOLTS, HEX HEAD NUT AND FLAT WASHER UNDER NUT. INSTALL BOLTS PER THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTION 506.3.12.3.

ALL HOLES SHALL BE DRILLED, SUB-PUNCHED AND REAMED. ALL PLATE CUTS SHALL PREFERABLY BE SAW CUTS. HOWEVER, FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GROUND. METAL PROJECTING BEYOND THE PLANE OF THE PLATE FACE WILL NOT BE PERMITTED. STEEL FUSE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36, ASTM A572 GRADE 50 OR ASTM A588 MAY BE SUBSTITUTED FOR A36 AT THE OPTION OF THE FABRICATOR. MILL TEST REPORTS SHALL BE SUBMITTED FOR FUSE PLATES. STEEL USED SHALL HAVE AN ULTIMATE TENSILE STRENGTH NOT TO EXCEED 80 KSI.

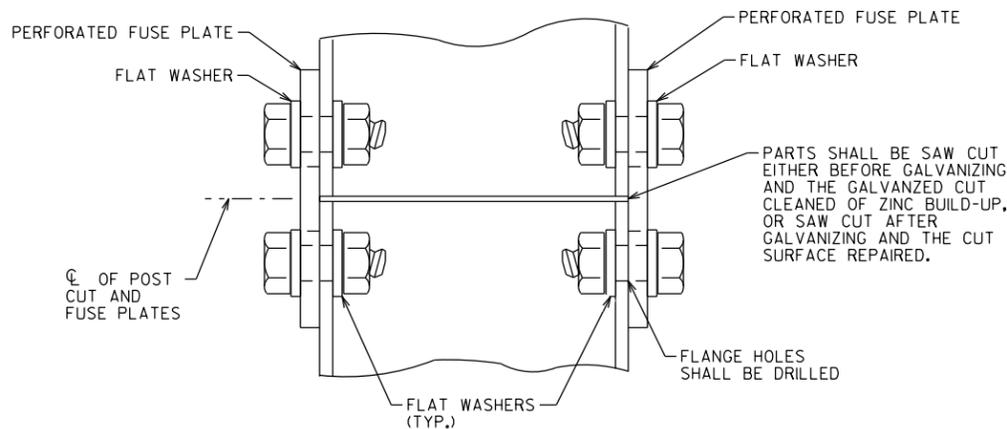


POST DETAIL

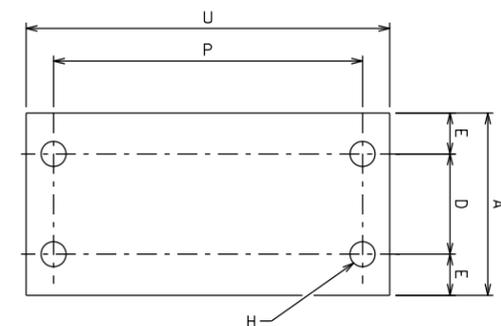


SECTION A-A

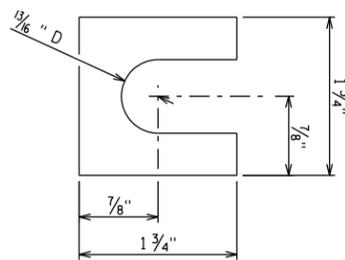
SECTION B-B



FUSE PLATE CONNECTION DETAIL



BOLT KEEPER PLATE DETAIL
30 GA GALVANIZED SHEET STEEL



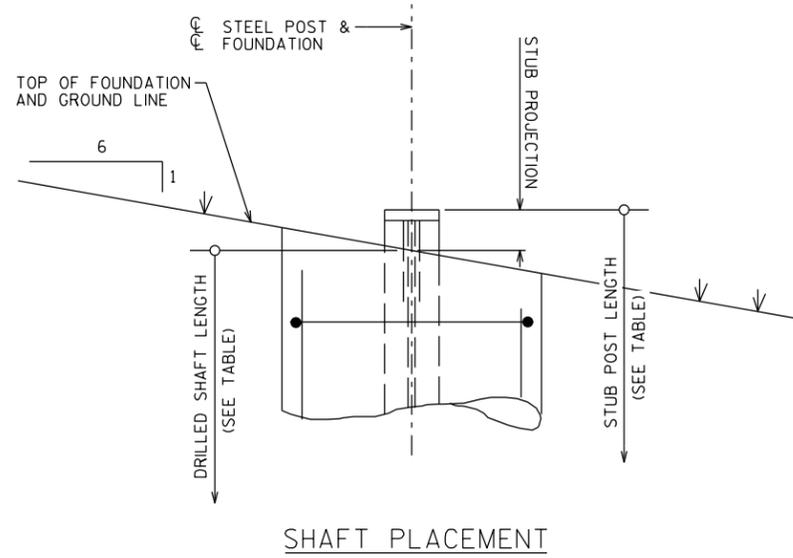
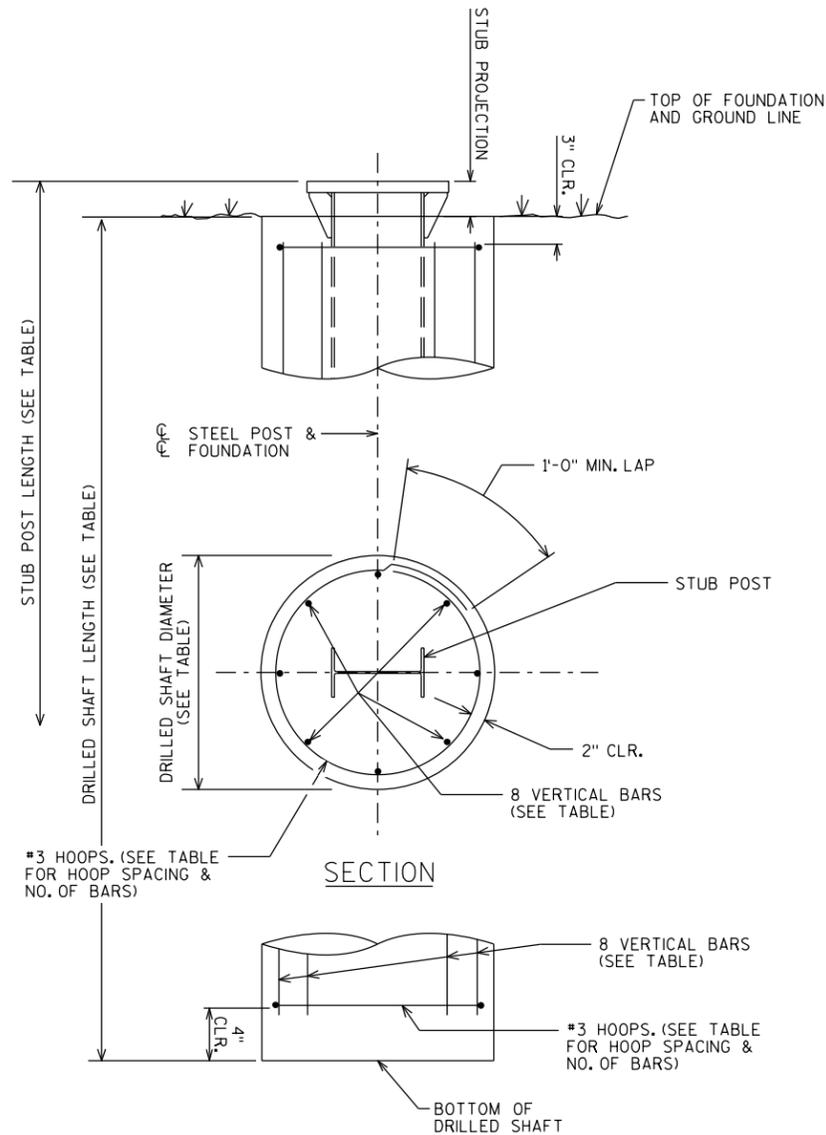
SHIM DETAIL

FURNISH TWO .012"± THICK AND TWO .032"± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO ASTM B36.

BOLTING PROCEDURE FOR BASE CONNECTION

1. ASSEMBLE SIGN POST, BOLT KEEPER PLATE, AND STUB POST WITH BOLTS AND THREE FLAT WASHERS PER BOLT AS SHOWN.
2. SHIM AS REQUIRED 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 A 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS.
5. LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PERSCRIBED TORQUE. (SEE TABLE FOR PERSCRIBED TORQUE). DO NOT OVER-TIGHTEN.
6. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE BTO TYPE I SIGNS			
		DRAWN BY	PLANS CK'D.
CONNECTION & FOUNDATION DETAILS 1 OF 2			SHEET A3-120



FOUNDATION DATA TABLE

POST SHAPE	STUB LENGTH	STUB PROJECTION	DRILLED SHAFT DIAMETER	DRILLED SHAFT LENGTH	VERTICAL BARS		HOOPS		CONCRETE VOLUME	TOTAL REINF. WEIGHT
					SIZE	LENGTH	MAX SPA.	NO.		
W6X15	2'-6"	3"	24"	6'-6"	#5	5'-11"	10"	9	0.8 CY	71 LB
W8X18	2'-6"	3"	24"	7'-6"	#6	6'-11"	12"	8	0.9 CY	102 LB
W8X21	3'-0"	2 1/2"	24"	8'-0"	#6	7'-5"	12"	9	1.0 CY	110 LB
W10X22	3'-0"	2 1/2"	24"	8'-6"	#7	7'-11"	12"	9	1.0 CY	151 LB
W12X26	3'-0"	2 1/2"	24"	10'-0"	#7	9'-5"	12"	11	1.2 CY	180 LB

◆ QUANTITIES SHOWN ARE FOR ONE DRILLED SHAFT

BASE CONNECTION & FUSE PLATE DATA TABLE

POST SHAPE	WEIGHT PER FOOT	BOLT SIZE & TORQUE	BASE CONNECTION DATA										BOLT KEEPER PLATE DATA		PERFORATED FUSE PLATE DATA										BOLT LENGTH	V
			A	B	C	D	E	T1	T2	W	R	P	U	F	G	J	K	M	D1	D2	T3	BOLT DIA.	WGT. EA. LBS			
W6X15	15 LB	5/8" DIA. X 4"	5"	2"	1 1/4"	2 3/4"	1 1/8"	1 1/4"	1/2"	1/4"	1 1/32"	8 1/2"	10"	5"	2 1/2"	6"	3 1/2"	1 1/2"	1 1/16"	1 1/4"	3 3/8"	5 3/8"	2.4	2	73.0 LB	
W8X18	18 LB	3/4" DIA. X 4"	5"	2"	1 1/4"	2 3/4"	1 1/8"	1 1/4"	1/2"	1/4"	1 1/32"	10 5/8"	12 1/8"	5"	2 1/2"	5 1/4"	2 3/4"	1 1/4"	1 1/16"	1 1/16"	3 3/8"	5 3/8"	2.0	2	83.0 LB	
W8X21	21 LB	3/4" DIA. X 4 3/4"	6"	2 1/4"	1 3/8"	3 1/2"	1 1/4"	1 1/2"	3/4"	5/16"	1 1/32"	11"	12 3/4"	5 1/2"	2 1/2"	5 1/4"	2 3/4"	1 1/4"	1 1/16"	1"	1 1/2"	3 3/4"	3.1	2 1/4"	124.0 LB	
W10X22	22 LB	3/4" DIA. X 4 3/4"	6"	2 1/4"	1 3/8"	3 1/2"	1 1/4"	1 1/2"	3/4"	5/16"	1 1/32"	12 7/8"	14 5/8"	6"	3"	5 3/4"	2 3/4"	1 3/8"	1 1/16"	1 1/8"	1 1/2"	3 3/4"	3.9	2 1/4"	134.0 LB	
W12X26	26 LB	3/4" DIA. X 4 3/4"	6"	2 1/4"	1 3/8"	3 1/2"	1 1/4"	1 1/2"	3/4"	5/16"	1 1/32"	15"	16 3/4"	6"	3"	6 1/2"	3 1/2"	1 5/8"	1 1/16"	1 1/2"	3 3/4"	4.5	2 1/4"	152.0 LB		

◆ TOTAL STRUCTURAL CARBON STEEL WEIGHT FOR ONE POST = V + (POST LENGTH X POST WEIGHT PER FOOT)
 "V" INCLUDES STUB POST, BASE PLATES, STIFFENER PLATES, PERFORATED FUSE PLATES, BOLTS, NUTS, AND WASHERS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED
 MATERIALS SHALL CONFORM TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 506, UNLESS NOTED OTHERWISE.
 FABRICATION SHALL CONFORM TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 506.
 ALL POST, POST STUBS & ATTACHMENTS SHALL BE ASTM 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.
 H.S. BOLTS, WASHERS, & NUTS SHALL BE A325 GALVANIZED.

FOUNDATION MATERIAL PROPERTIES

CONCRETE MASONRY F'C = 3,500 P.S.I.
 BAR STEEL REINFORCEMENT (UNCOATED), GRADE 60 F_y = 60,000 P.S.I.

DESIGN DATA

DESIGN CONFORMS TO AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS 1ST EDITION 2015 (WITH 2017 & 2018 INTERIM REVISIONS).

- DEAD LOADS (DL):
- STEEL POST SELF WEIGHT
 - SIGN PANEL WEIGHT = 3 PSF
- WIND LOADS (WL):
- WIND LOADS WERE APPLIED TO THE PROJECTED AREAS OF THE SIGN PANELS AND THE STEEL SIGN POSTS.
- BASIC WIND SPEED = 76 MPH
 - MEAN RECURRENCE INTERVAL (MRI) = 10 YEARS
 - HEIGHT & EXPOSURE FACTOR = 1.00
 - DIRECTIONALITY FACTOR = 0.85
 - GUST EFFECT FACTOR = 1.14
- WIND LOAD CASES:
- WL CASE 1: 1.0 X NORMAL WIND
 - WL CASE 2: 1.0 X TRANSVERSE WIND
 - WL CASE 3: 0.75 X NORMAL WIND + 0.75 X TRANSVERSE WIND

LOAD COMBINATIONS:

LOAD COMBINATION	TYPE	DL FACTOR	WL FACTOR
STRENGTH I	GRAVITY	1.25	-
EXTREME I	WIND	1.10	1.0
		0.9	1.0
SERVICE I	DEFLECTION	1.0	1.0

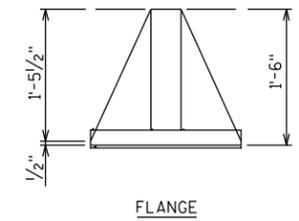
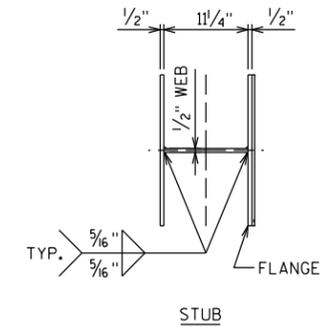
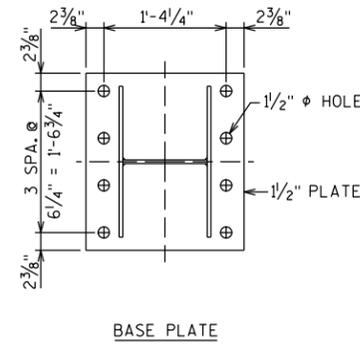
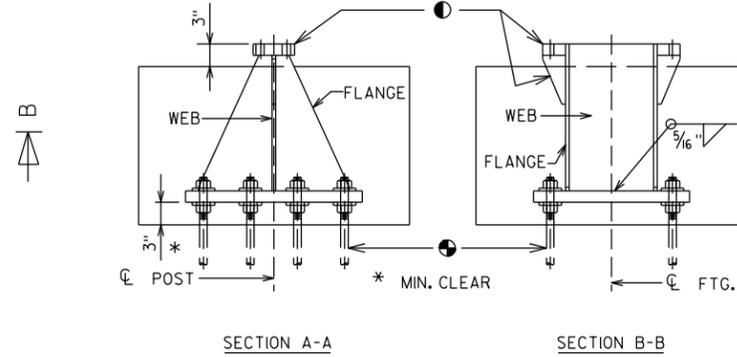
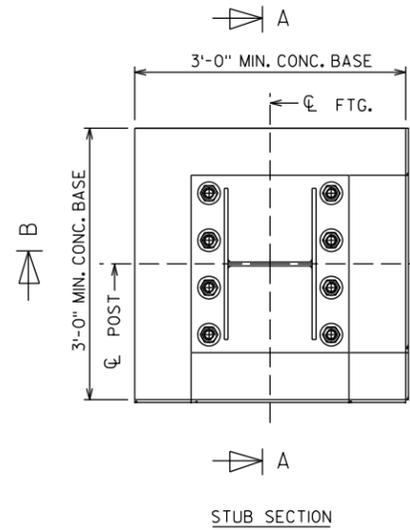
FOUNDATION DESIGN DATA

THE FOUNDATION DESIGN ASSUMED COHESIONLESS SOILS (LOOSE SAND) ABOVE THE WATER TABLE WITH THE FOLLOWING PROPERTIES:

- SOIL UNIT WEIGHT = 115 PCF
- ANGLE OF INTERNAL FRICTION = 24 DEGREES
- SOIL MODULUS PARAMETER = 25 LB/IN³

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE BTO TYPE I SIGNS			
DRAWN BY		PLANS CK'D.	
CONNECTION & FOUNDATION DETAILS 2 OF 2		SHEET A3-1.20	

STUB AND ADHESIVE ANCHOR DETAILS



- SEE BASE CONNECTION DETAILS ON "CONNECTIONS & FOUNDATION DETAILS" SHEETS.
- ADHESIVE ANCHORS 1/4"-INCHES. ALLOWABLE PULL OUT CAPACITY = 15 KIPS. EMBED 1'-3" INTO ROCK.

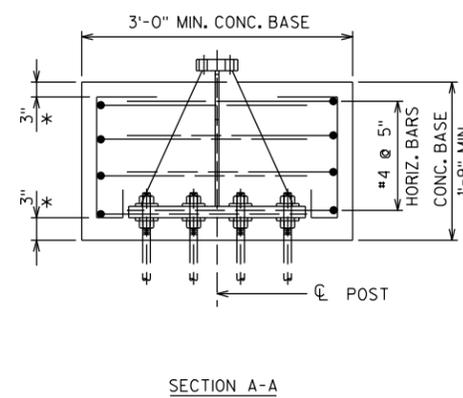
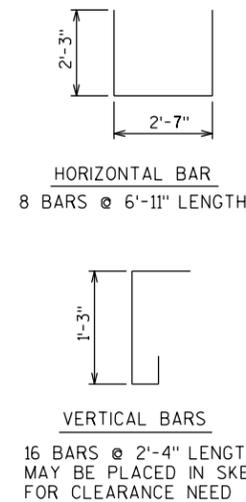
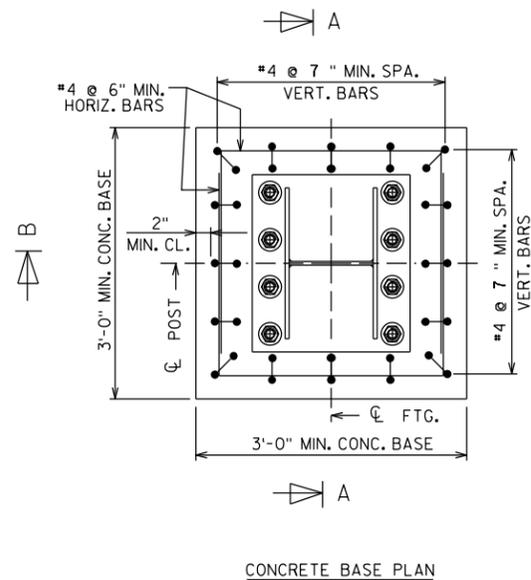
GENERAL NOTES:

QUANTITIES PER BASE:
REINFORCING STEEL = 62 LB
CONCRETE = 0.6 CY
STRUCTURAL STEEL = 335 LB

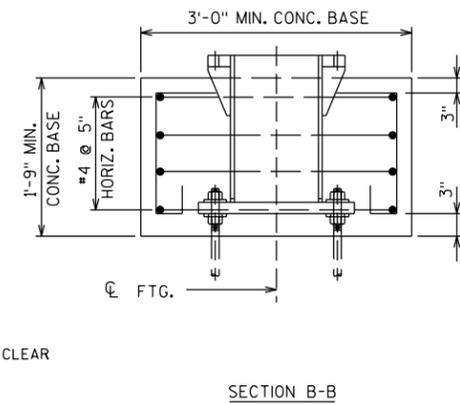
ALL MATERIALS, EXCEPT FOR ANCHOR ROD, NUTS, AND WASHERS, SHALL BE ASTM A709 GRADE 50. ALL MATERIALS TO BE GALVANIZED AFTER FABRICATION.

IF ROCK IS ENCOUNTERED PRIOR TO REACHING THE MINIMUM DRILLED SHAFT EMBEDMENT DEPTH DEFINED ON THE FOUNDATION DATA TABLE OF THE "CONNECTIONS & FOUNDATION DETAILS 2 OF 2" SHEET, THE CONTRACTOR SHALL INSTALL A TEST ADHESIVE ANCHOR AND DETERMINE THE PULL-OUT CAPACITY. IF THE FIELD TEST RESULTS IN A PULL-OUT CAPACITY GREATER THAN OR EQUAL TO 15 KIPS, THE CONTRACTOR MAY INSTALL THE ALTERNATE CONCRETE BASE AND BREAK-WAY STUB PER THE DETAILS ON THIS SHEET.

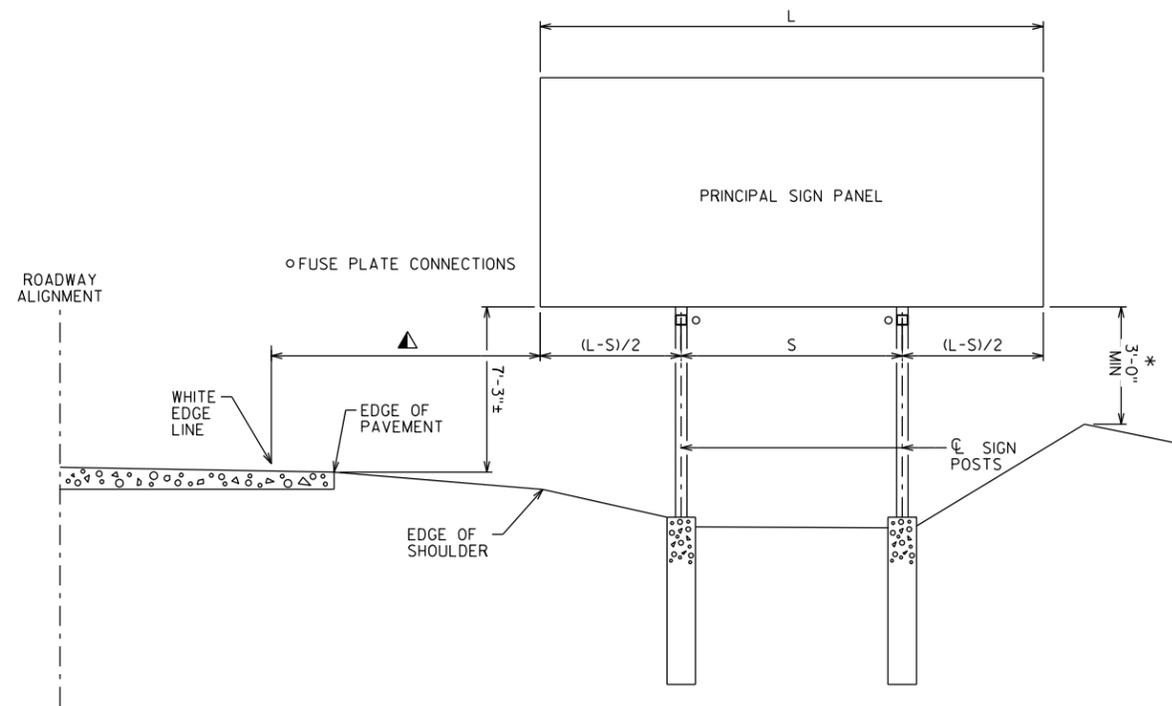
CONCRETE BASE DETAILS



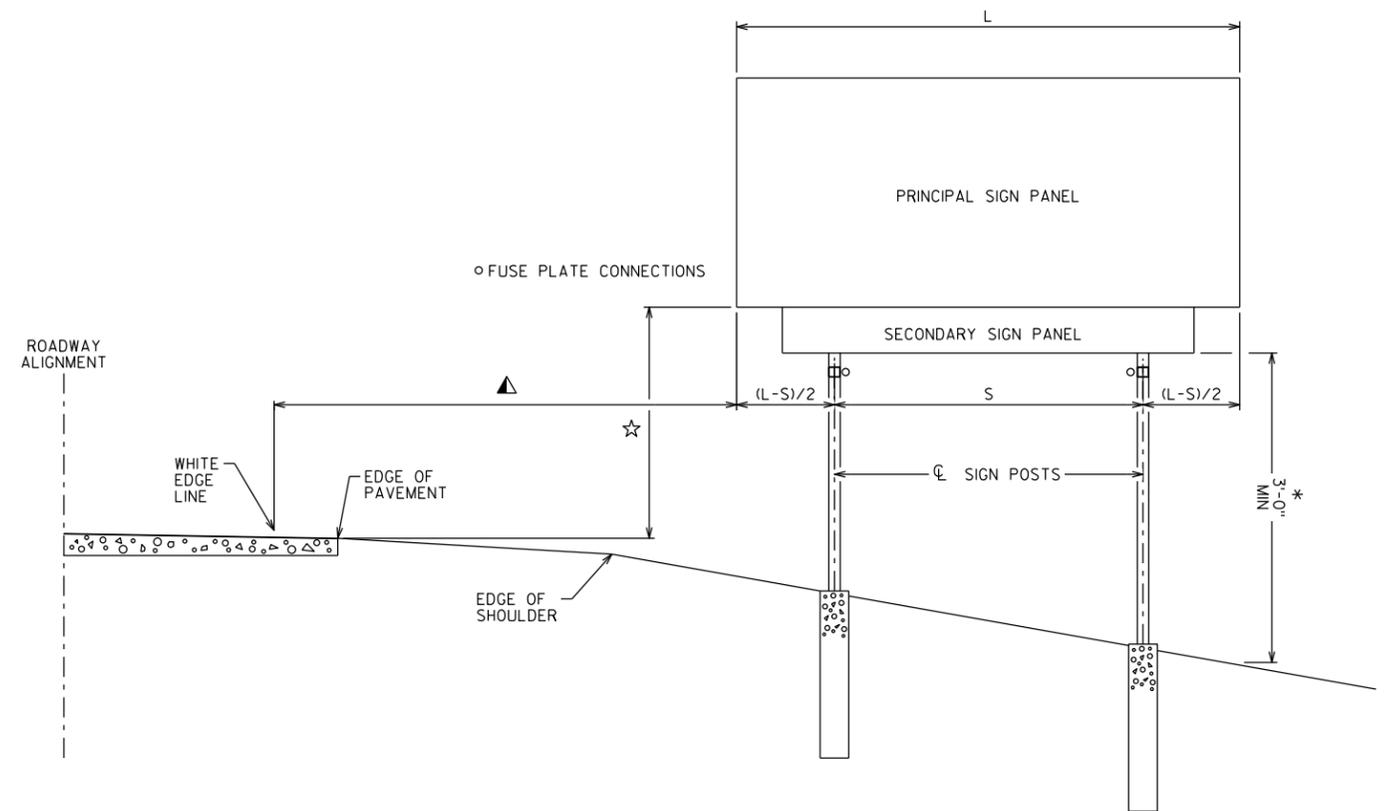
* MIN. CLEAR



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE BTO TYPE I SIGNS			
		DRAWN BY	PLANS CK'D.
ALTERNATE BREAK-AWAY BASE ON ROCK			SHEET A3-1M.2



INSTALLATION WITHOUT SECONDARY SIGN



INSTALLATION WITH SECONDARY SIGN

TYPE 1 SIGN INSTALLATION NOTES:

FOR A 2-POST INSTALLATION, "S" EQUALS 3L/5, BUT SHALL NOT BE LESS THAN 6'-0".

FOR A 3-POST INSTALLATION, "S" EQUALS 5L/7, BUT SHALL NOT BE LESS THAN 12'-0". THE SPACING BETWEEN ANY TWO POSTS SHALL NOT BE LESS THAN 6'-0".

UNLESS NOTED IN THE PLANS, THE SIGN OFFSET DISTANCE SHALL BE A MINIMUM OF 17'-6" FROM THE WHITE EDGE LINE, DESIRABLE 30'-0".

WHERE SIGNS ARE MOUNTED BEHIND CRASH WORTHY PROTECTION SUCH AS GUARDRAIL OR BARRIER WALL, THE LATERAL OFFSET MAY BE 4'-6" BEHIND THE GUARDRAIL OR BARRIER WALL.

THE ± TOLERANCE SHOWN ON THIS SHEETS IS 3".

THE VERTICAL SIGN HEIGHT CLEARANCES SHOWN ON THIS SHEET ARE MEASURED FROM THE BOTTOM OF THE SIGN PANEL TO THE NEAR EDGE OF PAVEMENT.

THE VERTICAL CLEARANCE SHALL BE 8'-3"± WHEN THE SECONDARY SIGN HEIGHT IS 3'-0" OR LESS, FOR SECONDARY SIGN HEIGHTS LARGER THAN 3'-0", THE VERTICAL CLEARANCE TO THE BOTTOM OF THE SECONDARY SIGN PANEL SHALL BE 5'-3"±.

* THE VERTICAL SIGN GROUND CLEARANCE ON RIGHT END OF SIGN SHALL BE A MINIMUM OF 3'-0"±.

FOR 2-POST SIGNS, IF THERE IS A SECONDARY SIGN THAT IS NOT AS WIDE AS THE POSTS, INSTALL FUSE PLATES BENEATH PRINCIPAL SIGN.

FOR SECONDARY SIGNS THAT ARE NOT AS WIDE AS THE EXTERIOR POSTS, SECURE SIGN WITH CHANNEL STEEL AS DESCRIBED IN A4-6.

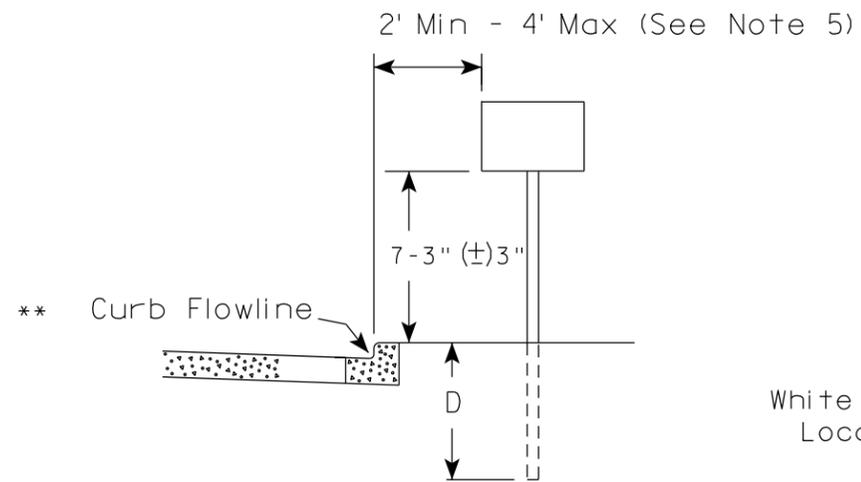
POST LENGTHS SHOWN IN THE MISCELLANEOUS QUANTITIES ARE ESTIMATED LENGTHS. THE CONTRACTOR SHALL VERIFY POST LENGTHS AT THE TIME OF FINAL GRADING.

REFER TO THE TRAFFIC ENGINEERING OPERATIONS AND SAFETY MANUAL FOR FURTHER GUIDANCE ON MINIMUM VERTICAL CLEARANCE REQUIREMENTS.

NO.	DATE	REVISION	BY
	2/29/24		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE BTO TYPE I SIGNS			
DRAWN BY		PLANS CK'D.	
TYPICAL TYPE I SIGN INSTALLATION		SHEET A4-1.11	

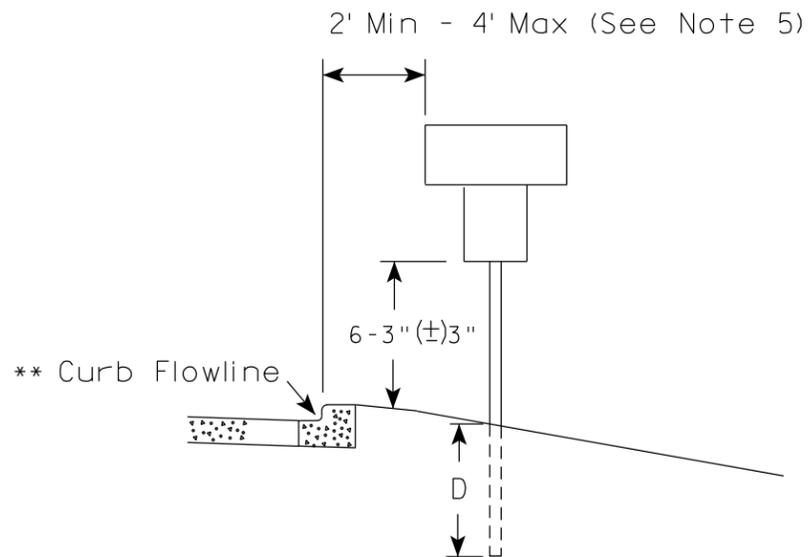
URBAN AREA

RURAL AREA (See Note 2)



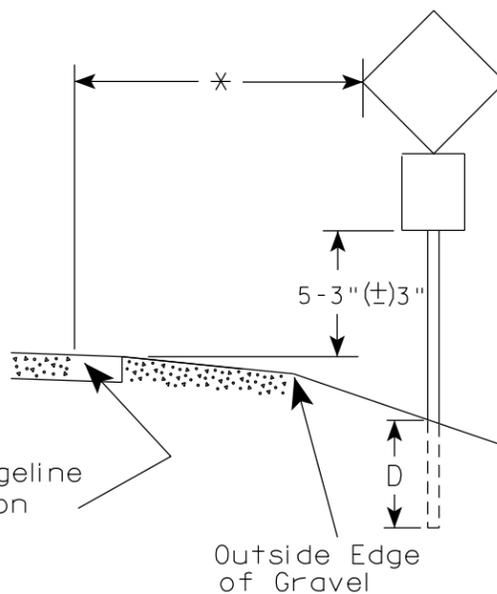
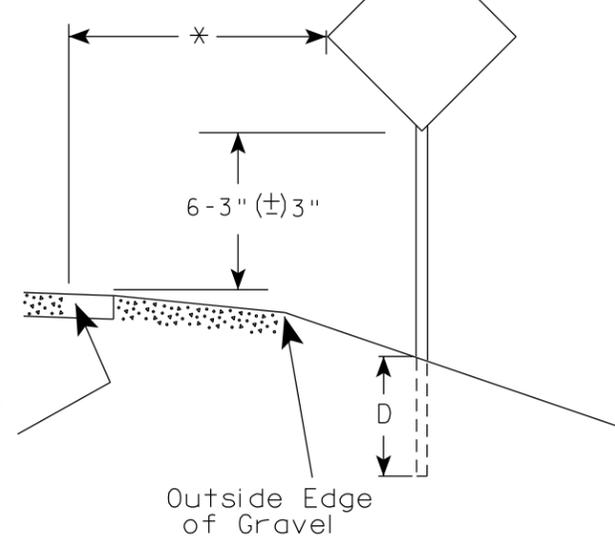
White Edgeline Location

Outside Edge of Gravel



White Edgeline Location

Outside Edge of Gravel



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 or behind barrier wall, see A4-10 sign plate.
The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (± 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" (± 3)".
3. For expressways and freeways, mounting height is 7'- 3" (± 3)" or 6'-3" (± 3)" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (± 3)".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (± 3)" or as directed by the 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.

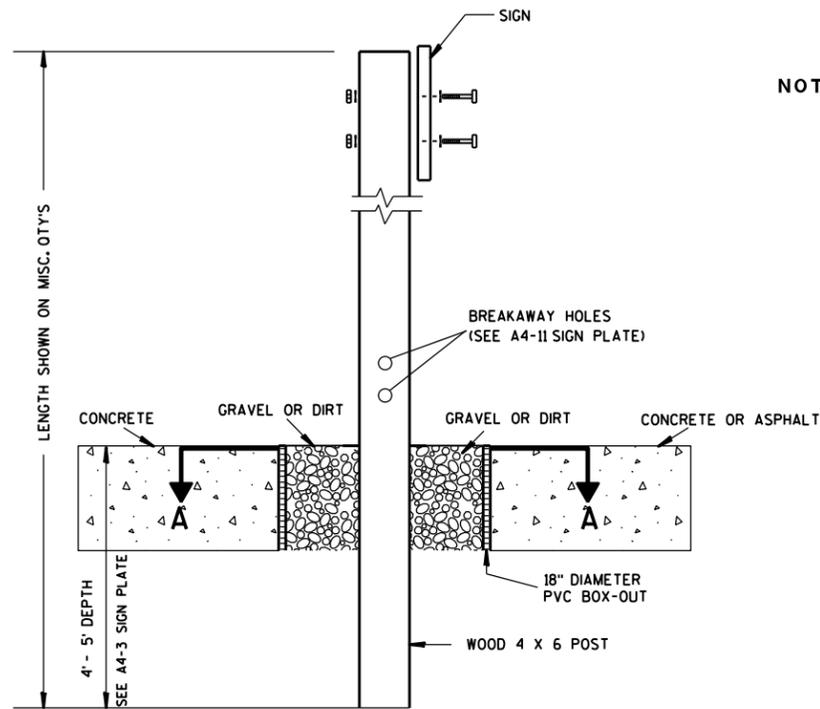
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Raub*
for State Traffic Engineer

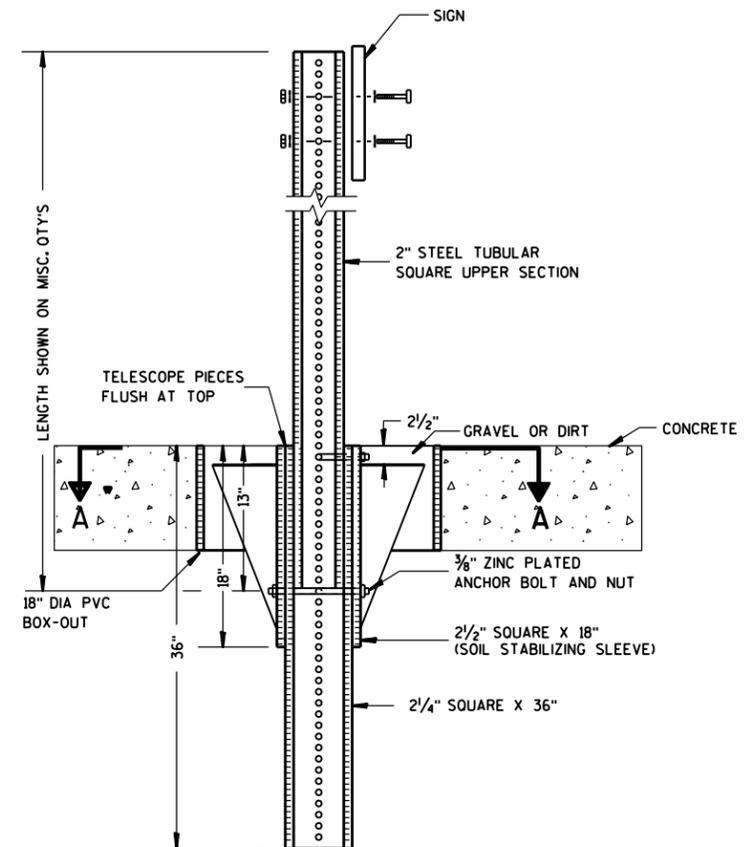
DATE 12/6/23 PLATE NO. A4-3.23



ELEVATION VIEW

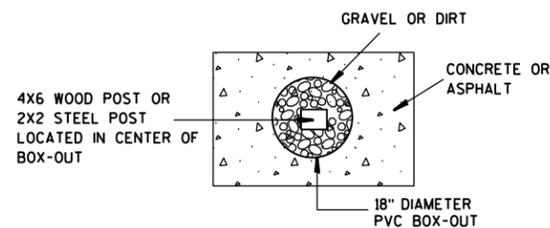
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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	
<small>WISCONSIN DEPT OF TRANSPORTATION</small>	
APPROVED <i>Matthew R. Rauch</i> <small>for State Traffic Engineer</small>	
<small>DATE 1/27/14</small>	<small>PLATE NO. A4-3B.1</small>

GENERAL NOTES

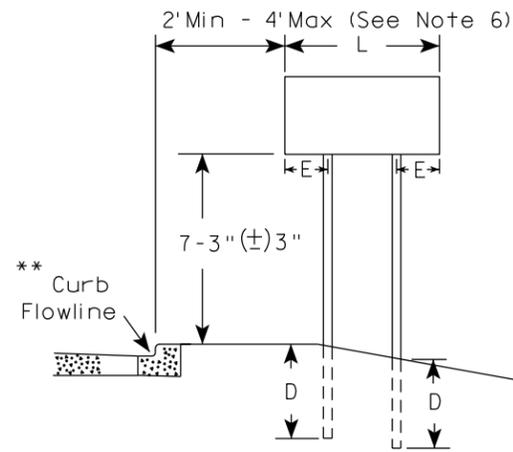
- For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- See tables below for required number of posts.
- For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
- The (±) tolerance for mounting height is 3 inches.
- J-Assemblies are considered to be one sign for mounting height.
- Offset distance shall be consistent with existing signs or consistent throughout length of project.
- Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the engineer.
- The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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.

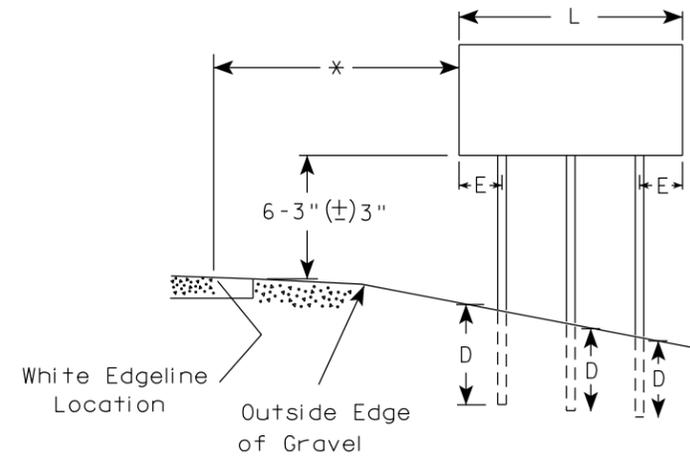
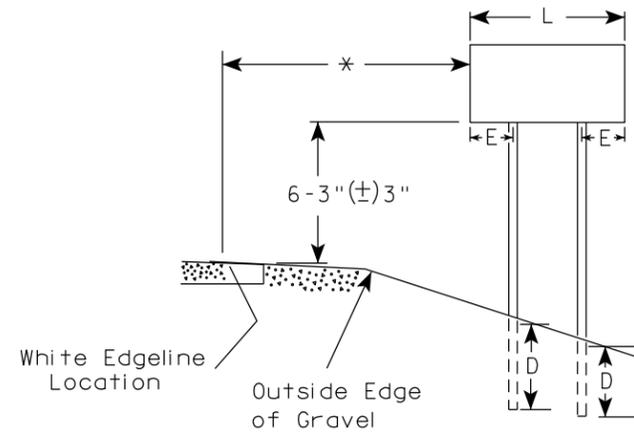
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs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

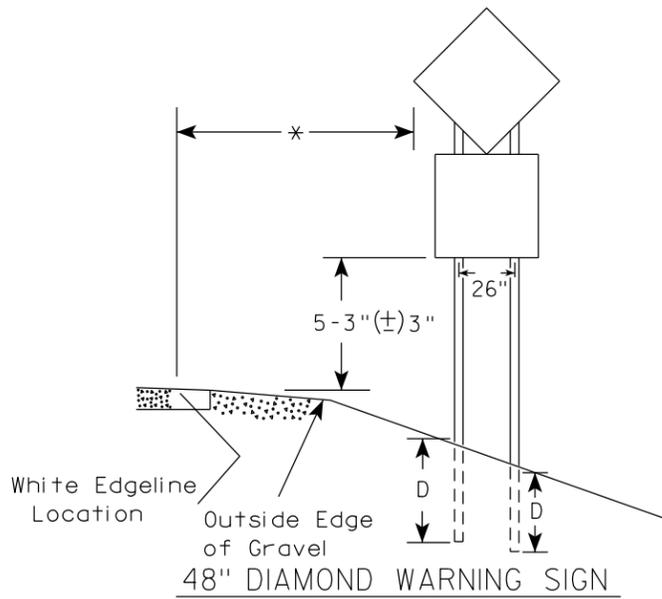
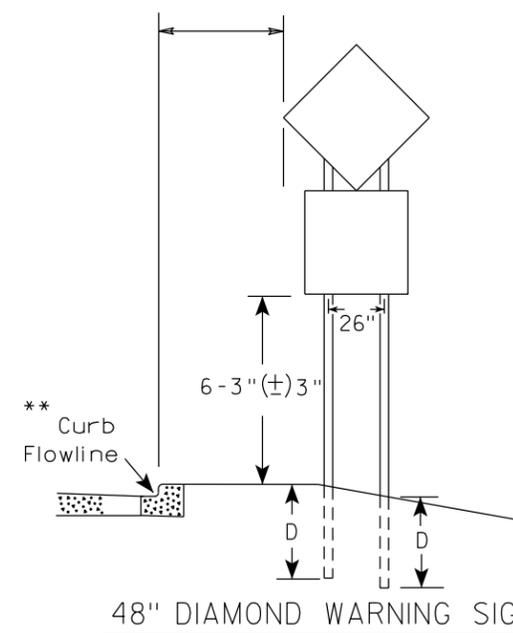
URBAN AREA



RURAL AREA (See Note 3)



URBAN 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 12/6/23 PLATE NO. A4-4.16

PROJECT NO:

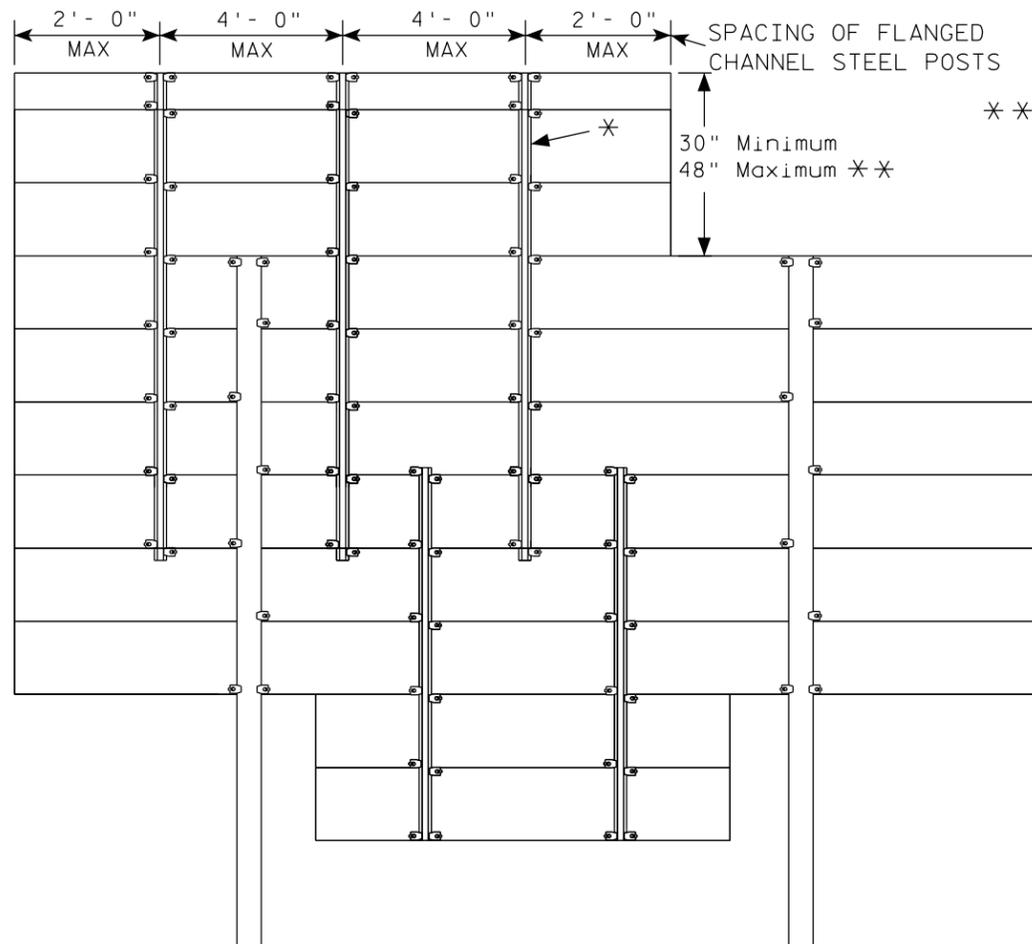
HWY:

COUNTY:

SHEET NO:

E

GROUND MOUNTED SIGN



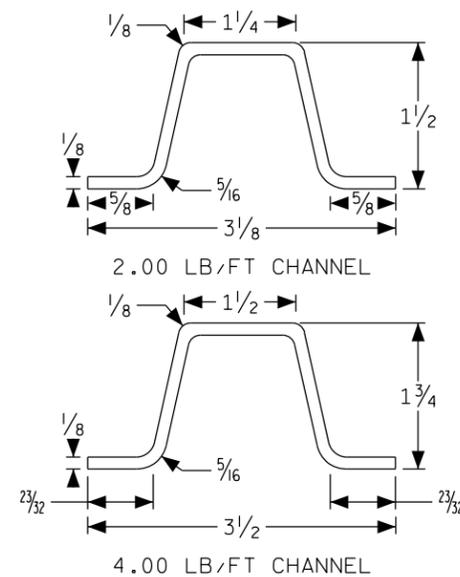
* = 2.00 lb/ft AND 4.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

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

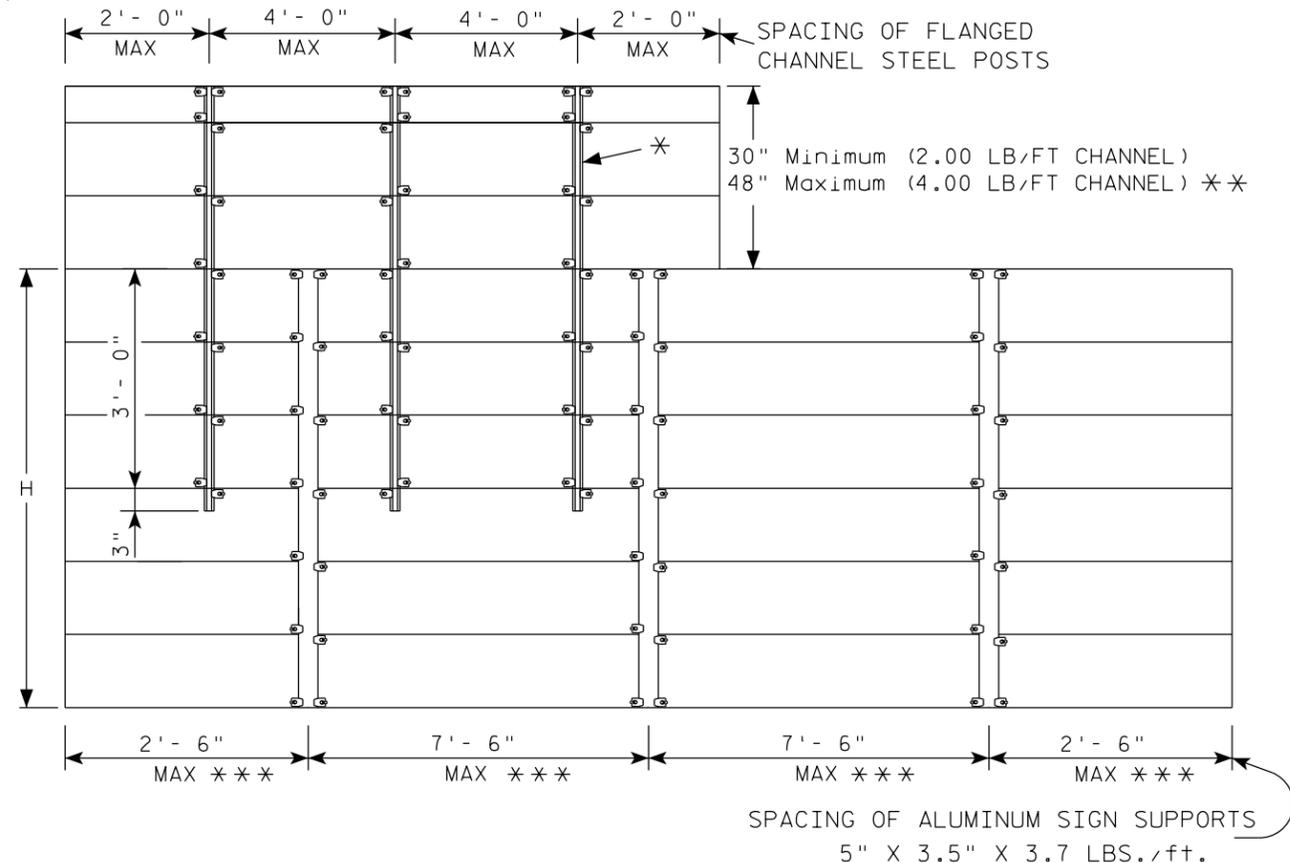
* * * THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 15 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 15 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAILS

NOT TO SCALE



SIGN BRIDGE MOUNTED SIGN



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 1/07/20

PLATE NO. A4-6.12

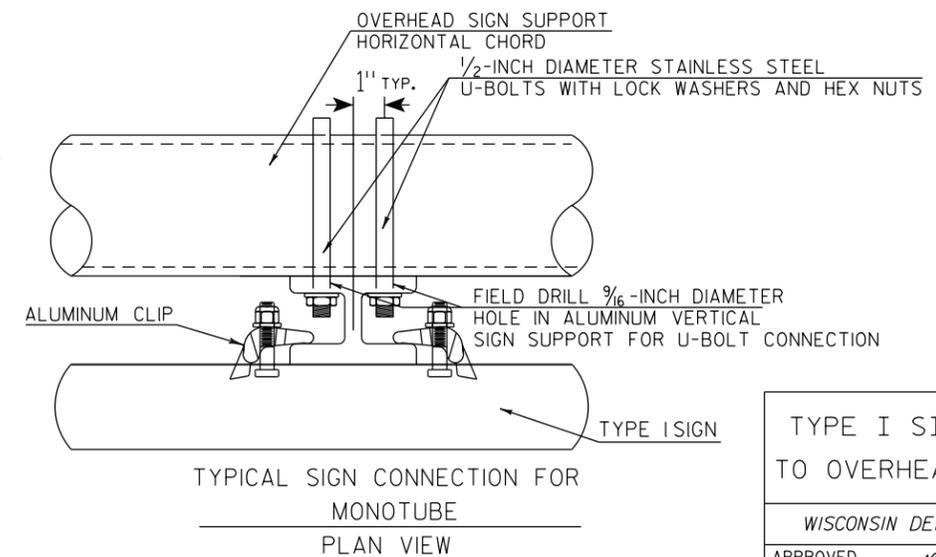
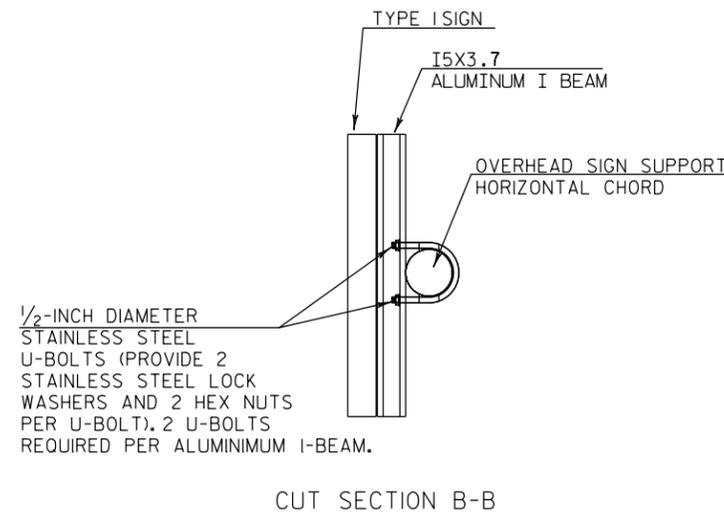
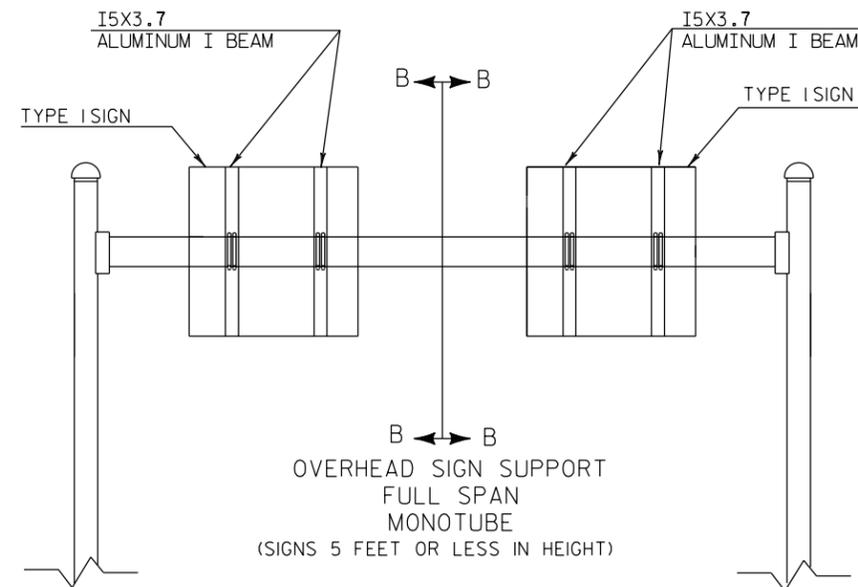
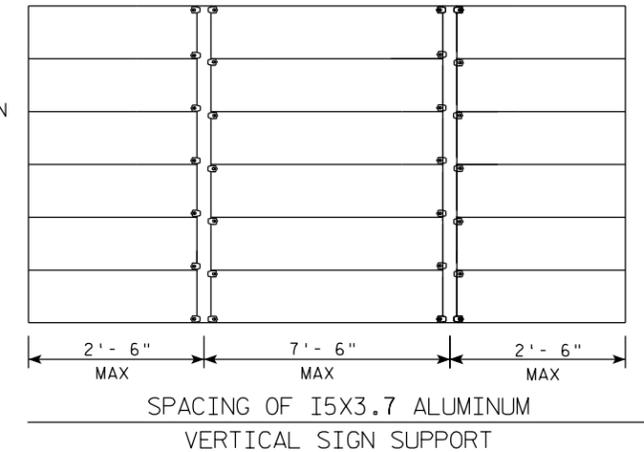
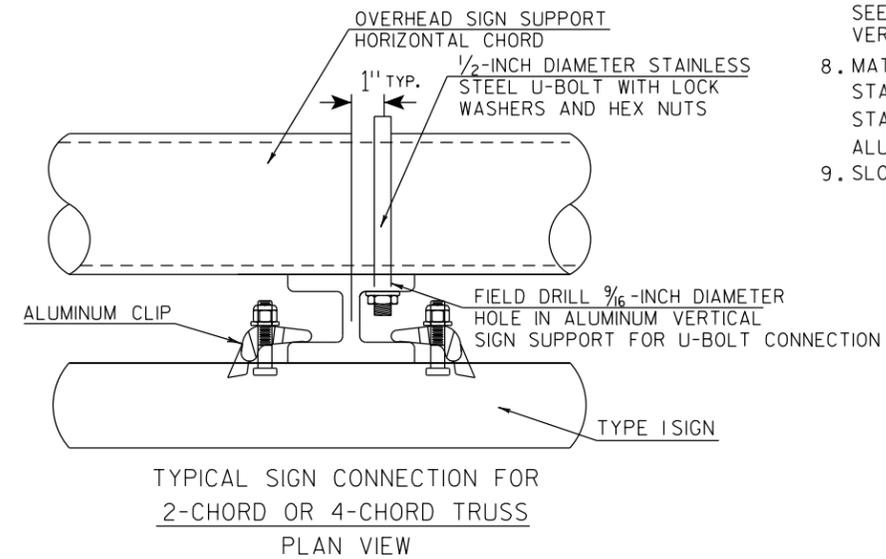
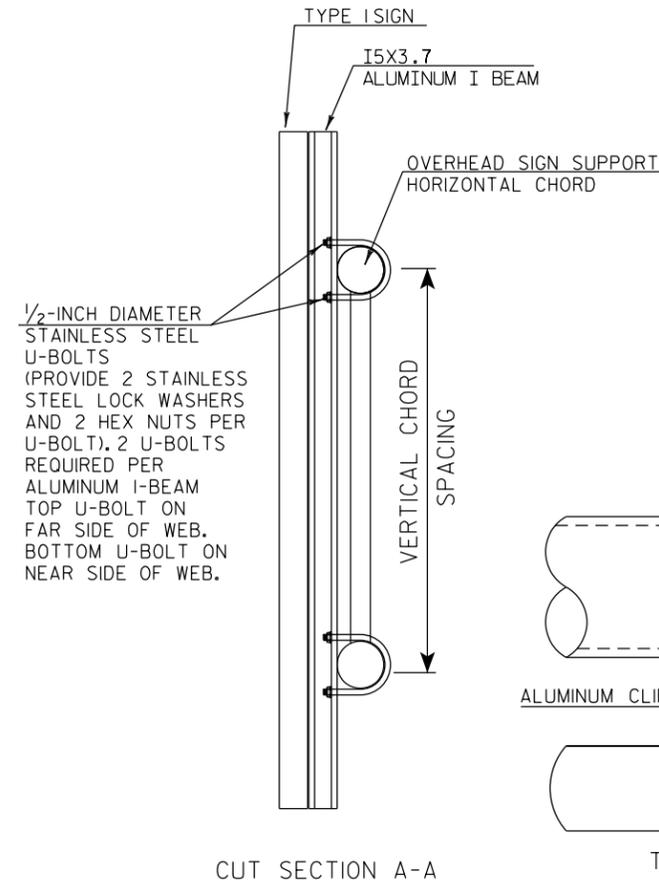
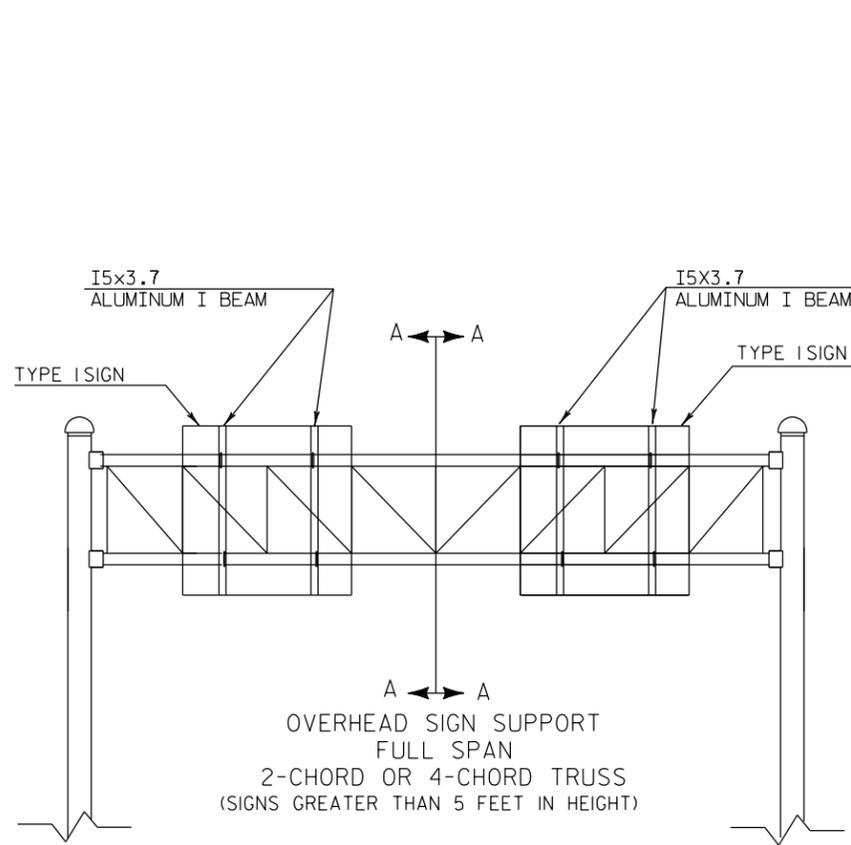
PROJECT NO:

SHEET NO:

E

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.
9. SLOTTED HOLES IN I-BEAMS ARE NOT ALLOWED



TYPE I SIGN CONNECTION TO OVERHEAD SIGN SUPPORT

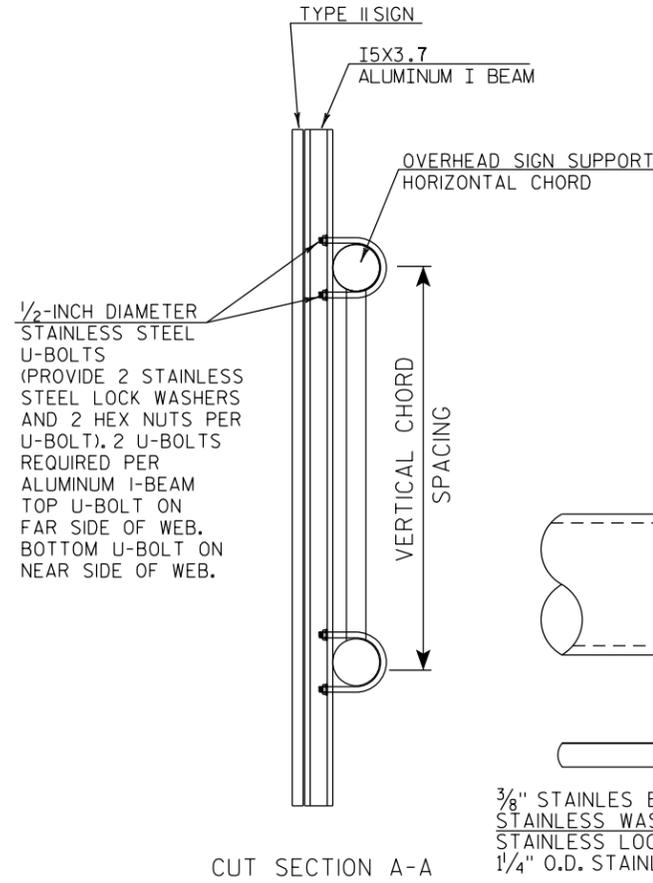
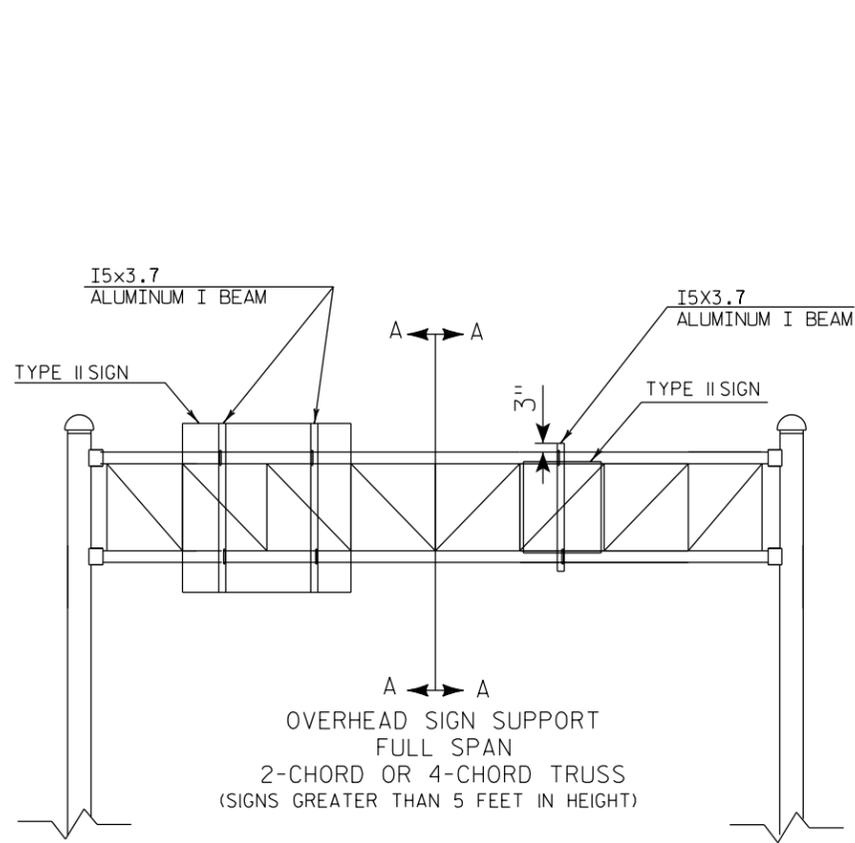
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
State Traffic Engineer

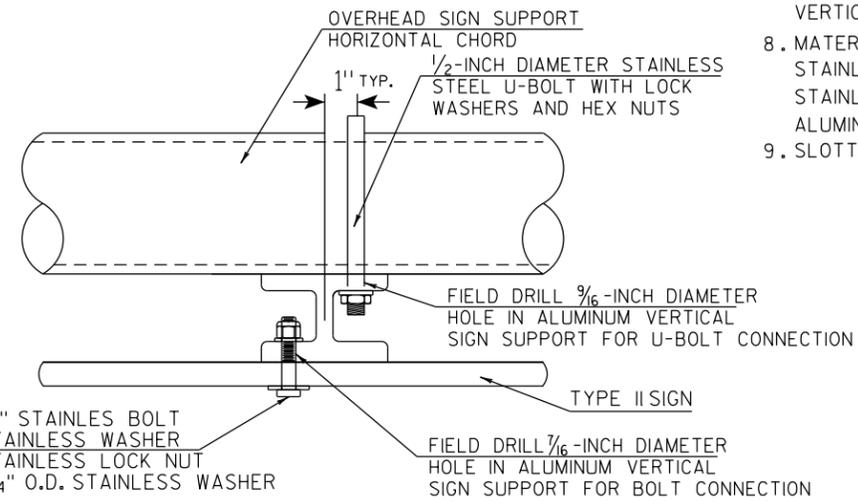
DATE 1/07/20 PLATE NO. A4-7A.1

GENERAL NOTES

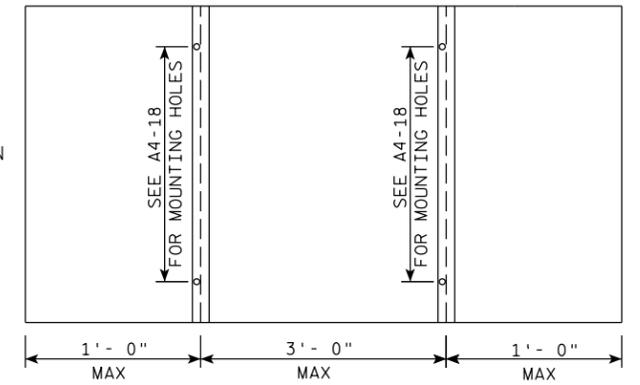
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE STAINLESS BOLTS AT BOLT HOLES IN SIGN PANEL PER SIGN PLATE A4-18.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO 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. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
STAINLESS STEEL U-BOLTS, BOLTS, AND LOCKWASHERS ASTM 304.
STAINLESS STEEL HEX NUTS ASTM A276.
ALUMINUM I-BEAMS ARE 6061-T6.
9. SLOTTED HOLES IN I-BEAMS ARE NOT ALLOWED



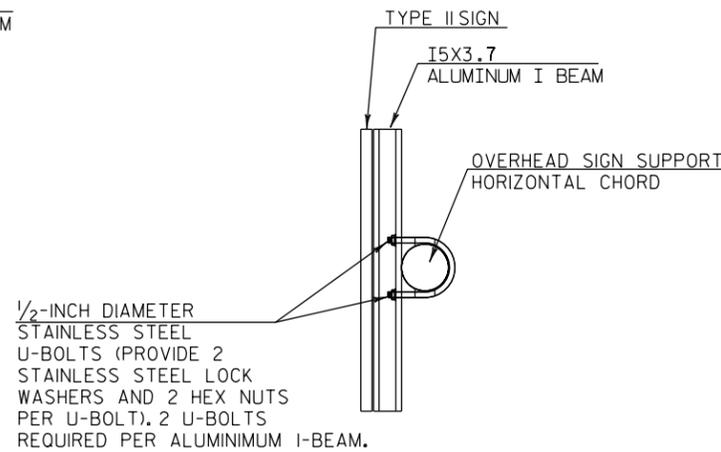
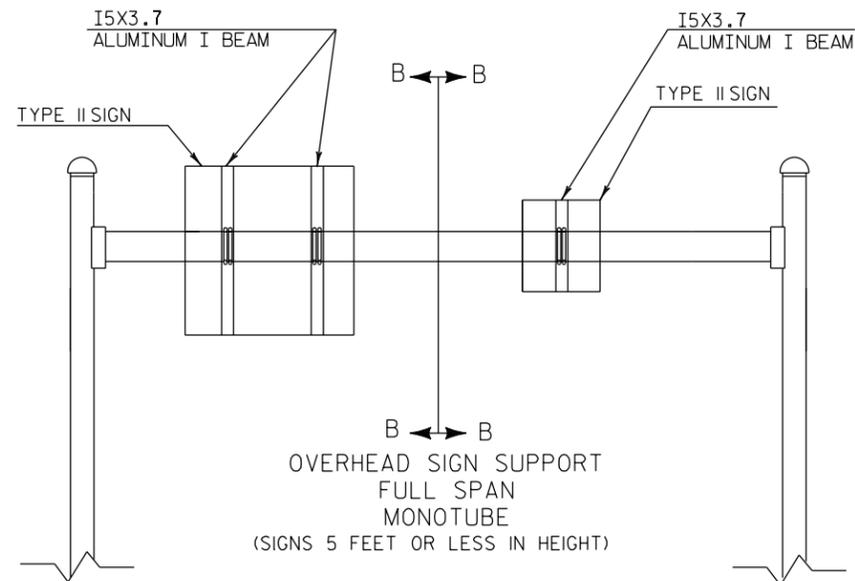
CUT SECTION A-A



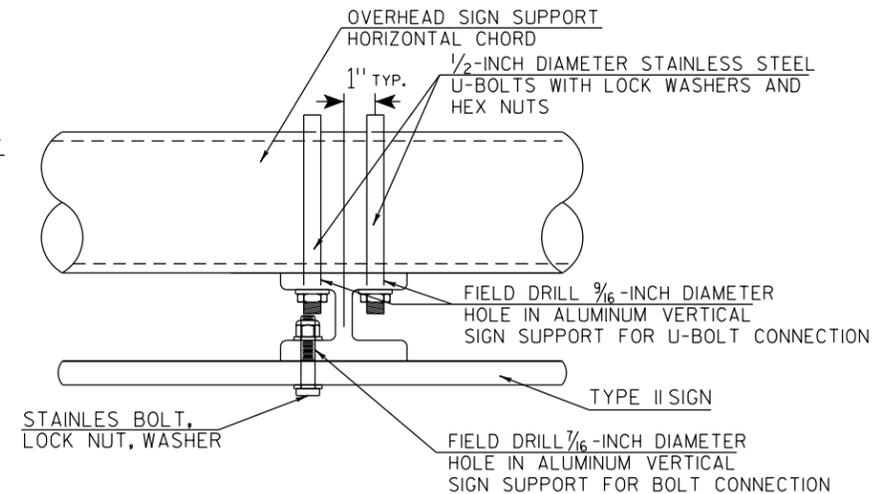
TYPICAL SIGN CONNECTION FOR 2-CHORD OR 4-CHORD TRUSS
PLAN VIEW



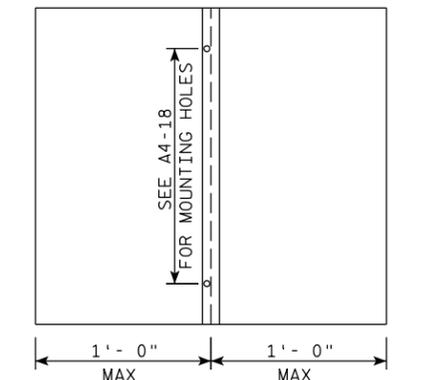
SPACING OF I5X3.7 ALUMINUM MULTIPLE VERTICAL SIGN SUPPORTS



CUT SECTION B-B



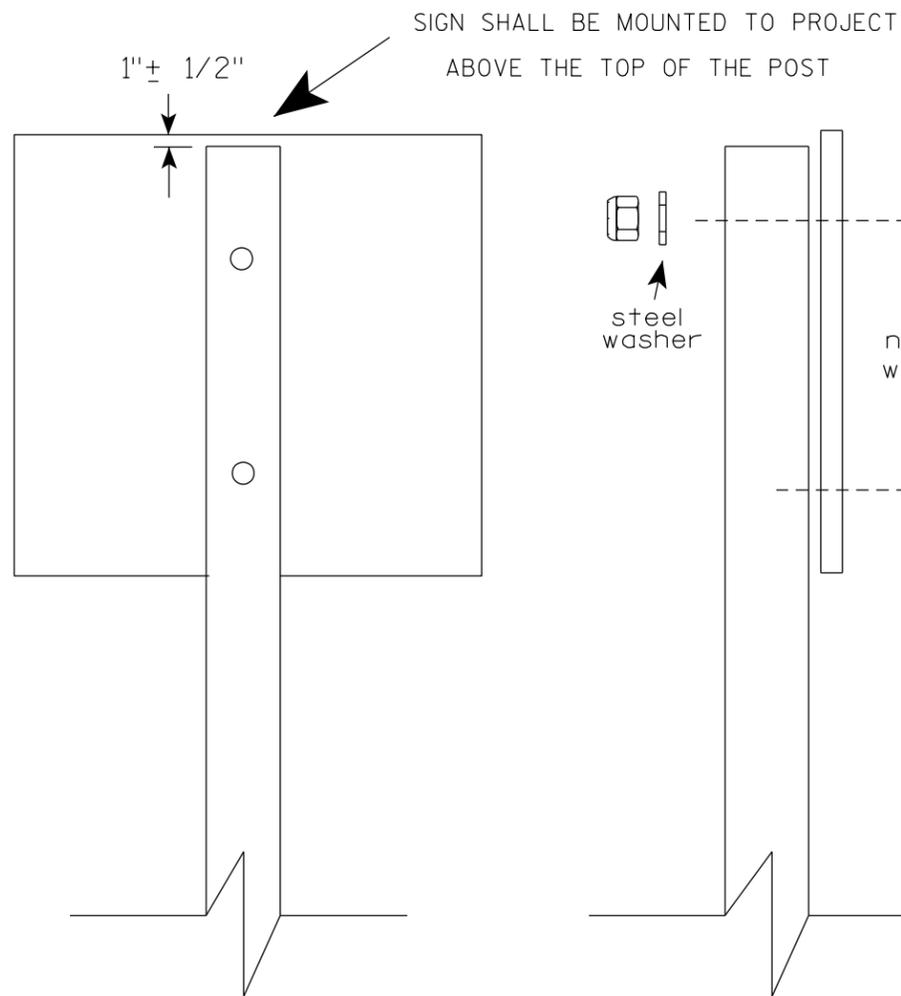
TYPICAL SIGN CONNECTION FOR MONOTUBE
PLAN VIEW



SPACING OF I5X3.7 ALUMINUM SINGLE VERTICAL SIGN SUPPORT

TYPE II SIGN CONNECTION TO OVERHEAD SIGN SUPPORT

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
For State Traffic Engineer
DATE 1/07/20 PLATE NO. A4-7B.1



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 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

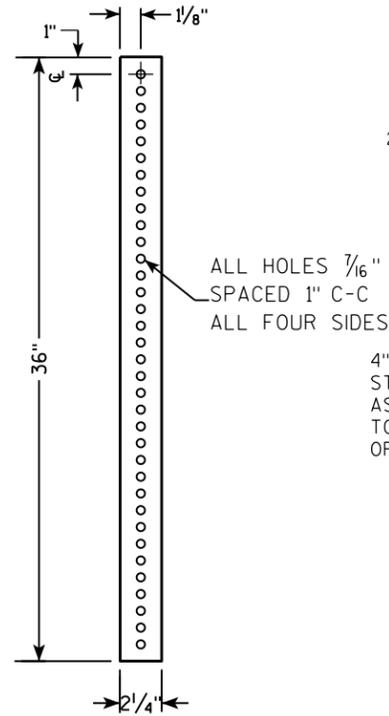
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*
For State Traffic Engineer

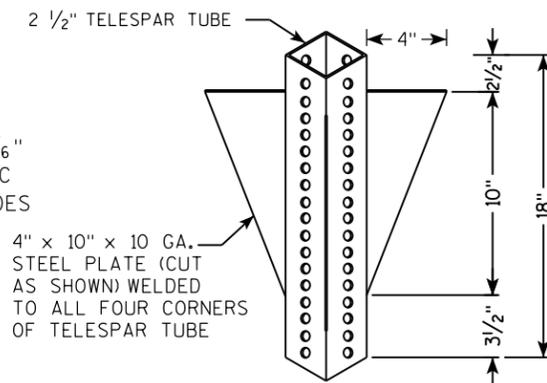
DATE 4/1/2020 PLATE NO. A4-8.9

**TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM**

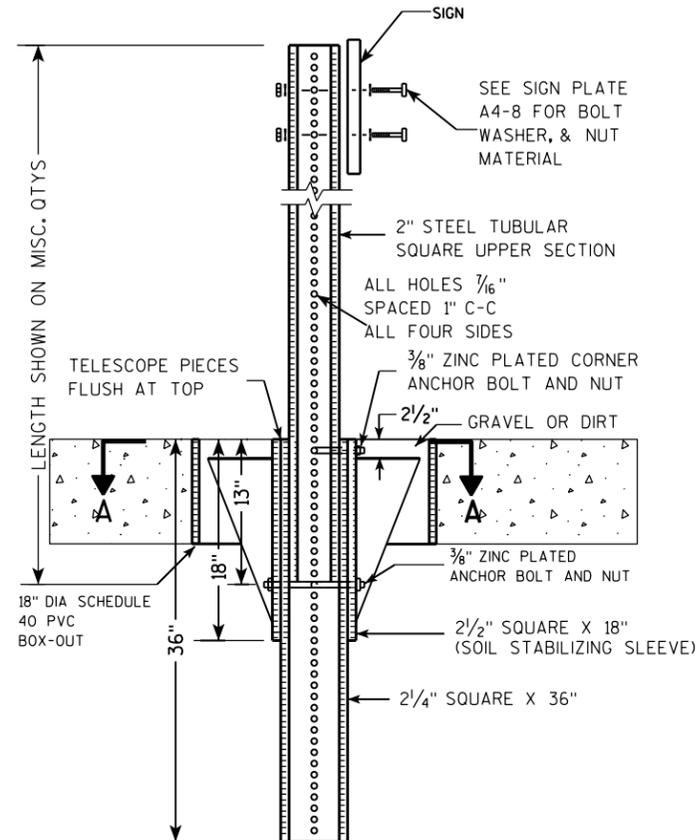
2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



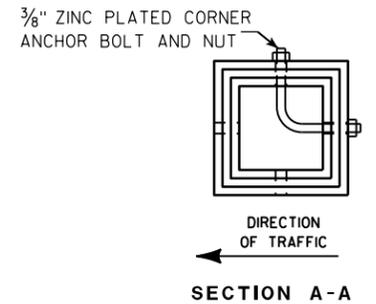
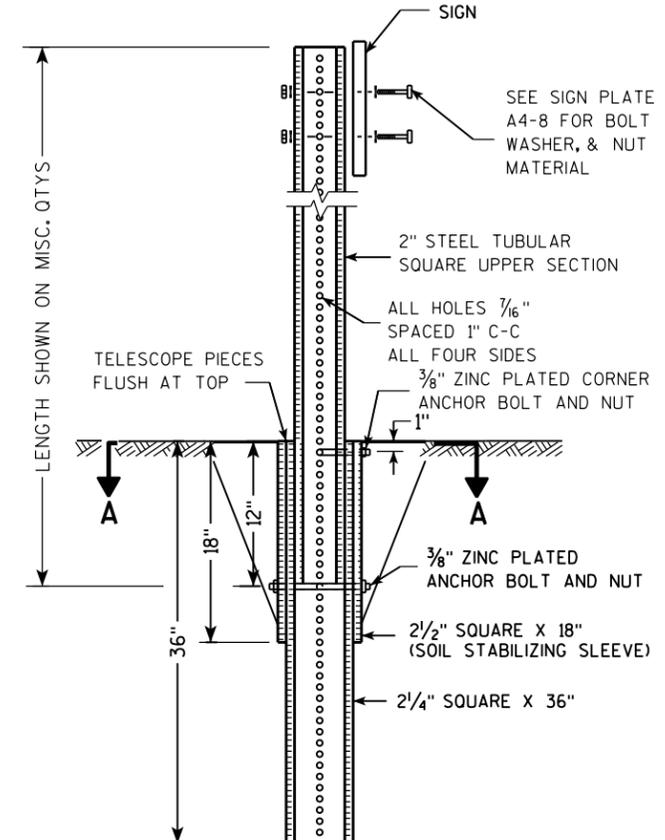
2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH



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



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



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

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

**TUBULAR STEEL
SIGN POST
A4-9**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

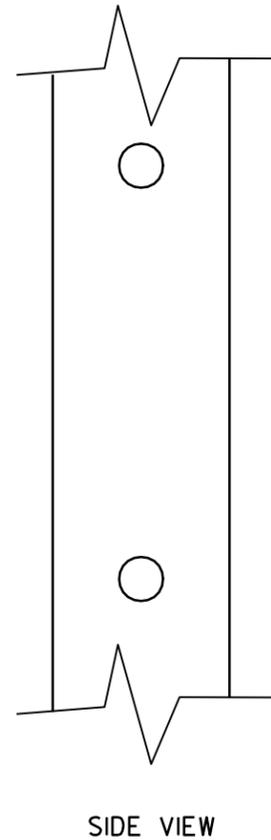
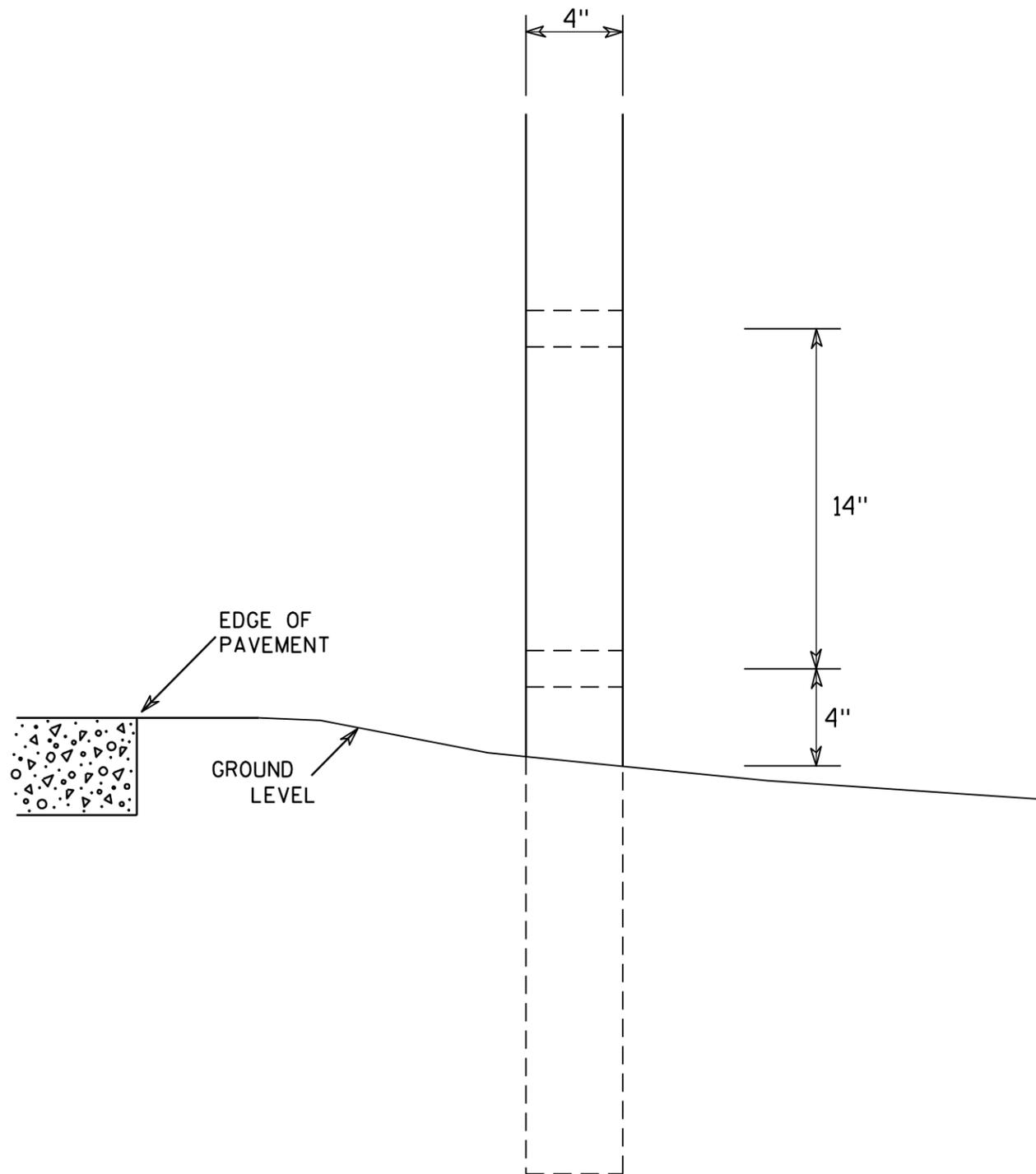
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



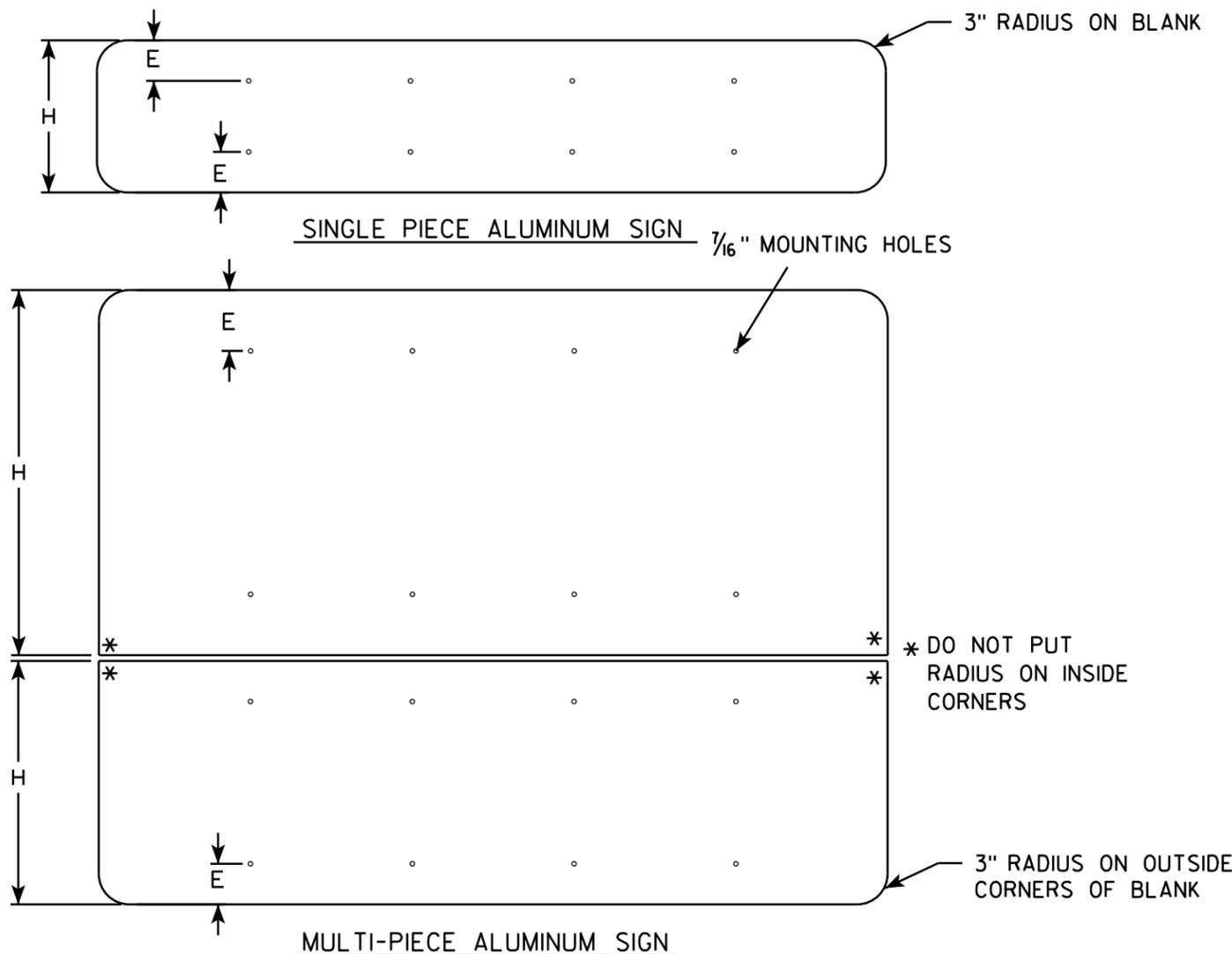
GENERAL NOTES

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

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4 X 6 WOOD POST MODIFICATIONS	
<i>WISCONSIN DEPT OF TRANSPORTATION</i>	
APPROVED	<i>Chester J Spang</i> for State Traffic Engineer
DATE <u>3/27/97</u>	PLATE NO. <u>A4-11.2</u>

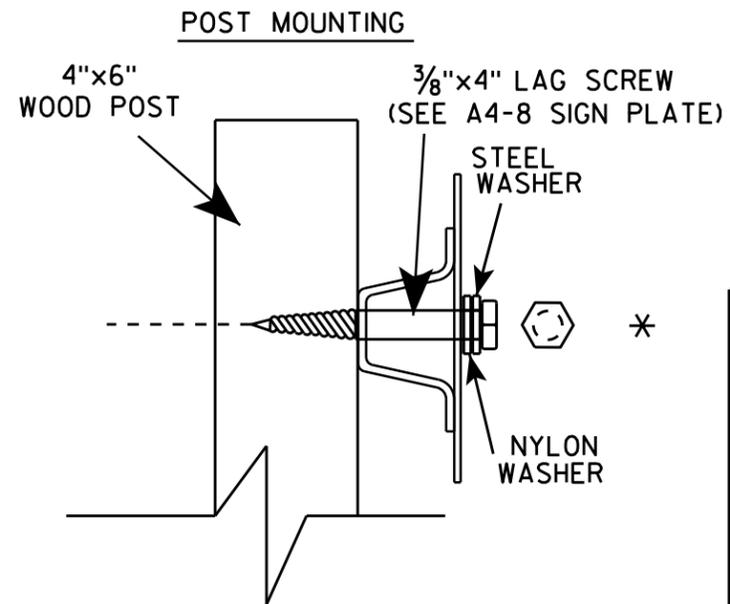
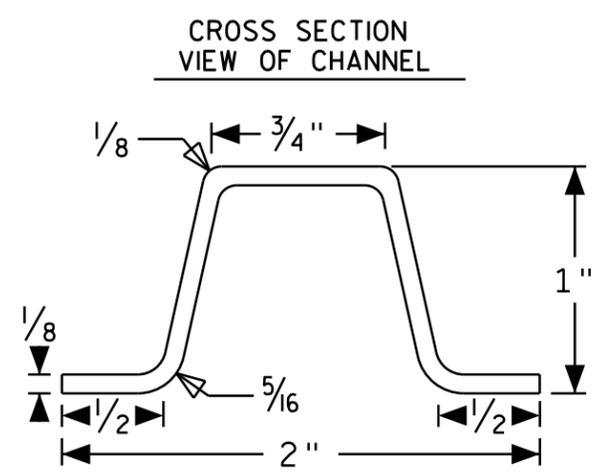
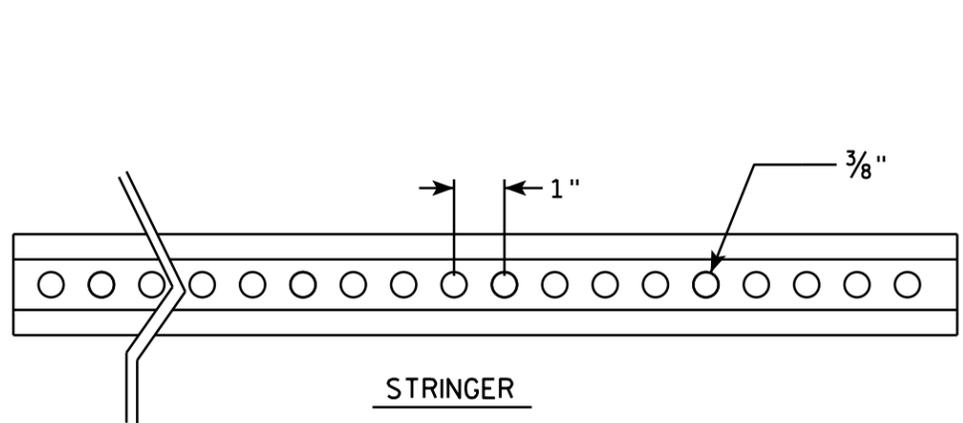


GENERAL NOTES

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

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

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SIGN STRINGER MOUNTING REQUIREMENTS

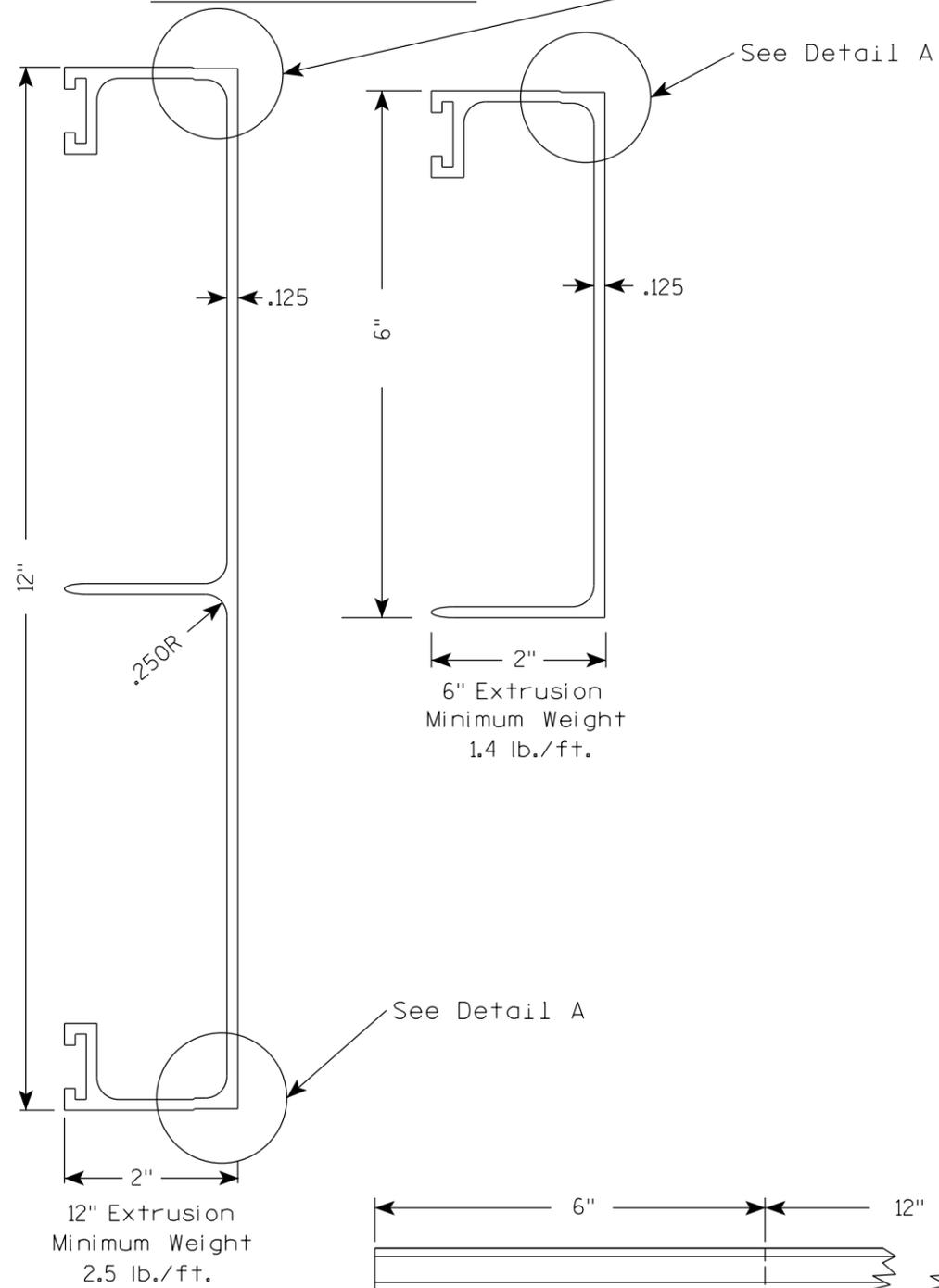
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

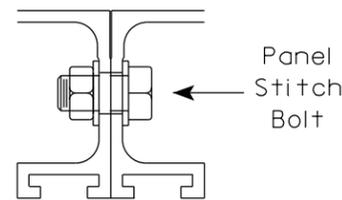
Extruded Shape

Hardware



STITCH BOLT, WASHER & NUT

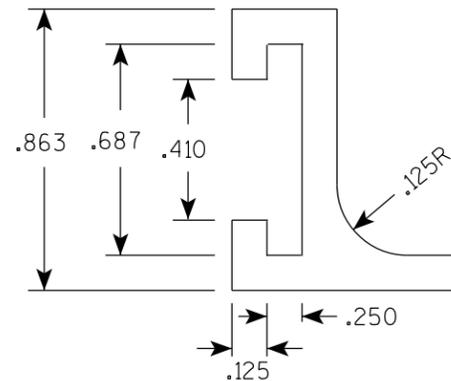
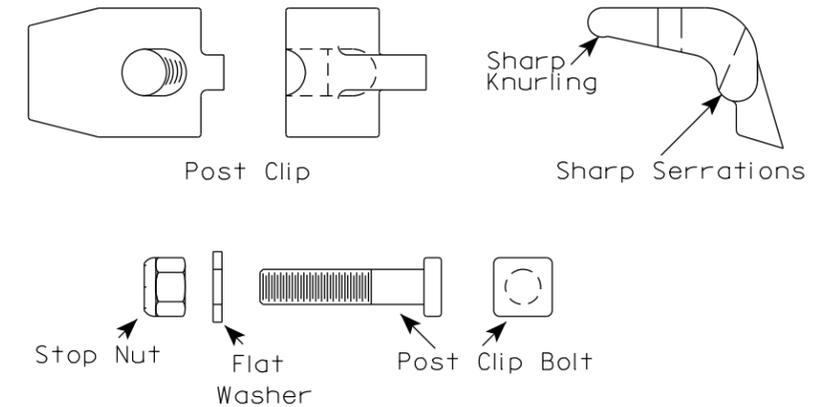
The hardware includes:
 3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
 3/8 " - Stainless steel stop nut
 3/8" X .064 Flat Washers, Alclad 2024-T4 alloy



Panel
Stitch
Bolt

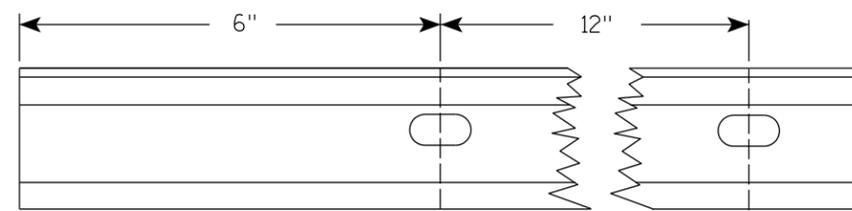
POST CLIP, POST CLIP BOLT, WASHER & NUT

Post Clip shall be Alum. Alloy 356-T6
 Post Clip Bolt shall be Stainless Steel.
 Flat washer shall be 3/8" X .091, Stainless Steel.
 Stop nut shall be stainless steel.

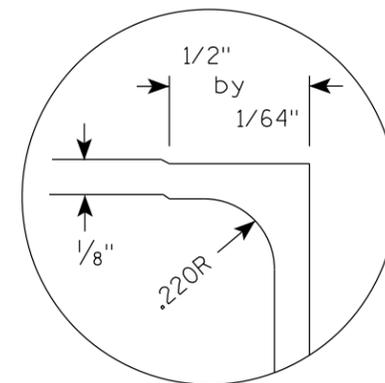


NOTES

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.



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



DETAIL A (EDGE WRAP JOINT)

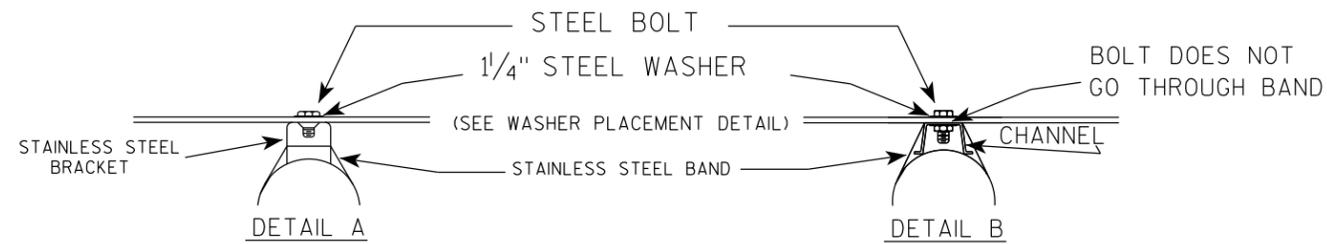
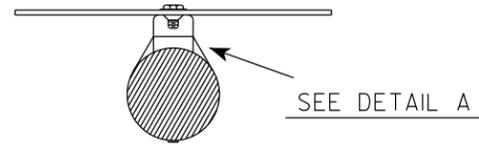
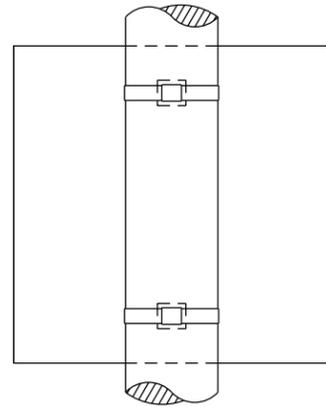
ALUMINUM EXTRUSIONS FOR
TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

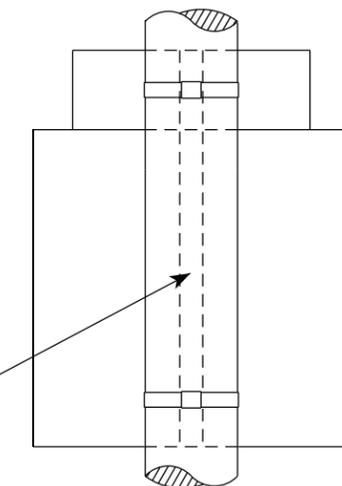
APPROVED *Matthew R. Rauch*
 For State Traffic Engineer
 DATE 1/07/20 PLATE NO. A5-2.10

BANDING

SINGLE SIGN



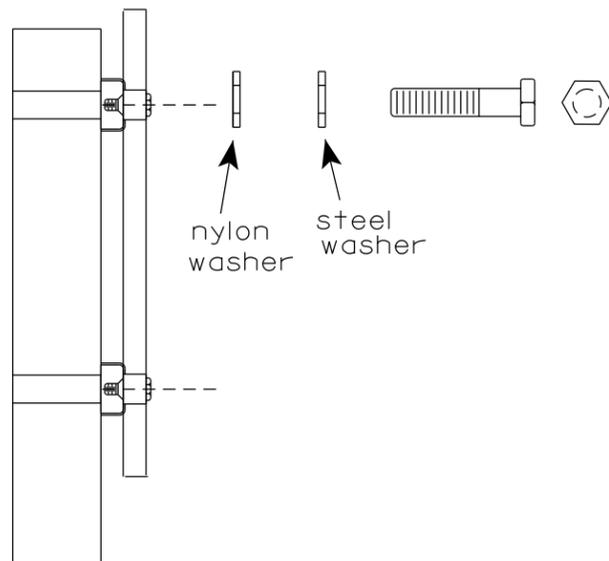
"J" ASSEMBLY



CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET



WASHER PLACEMENT



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

GENERAL NOTES

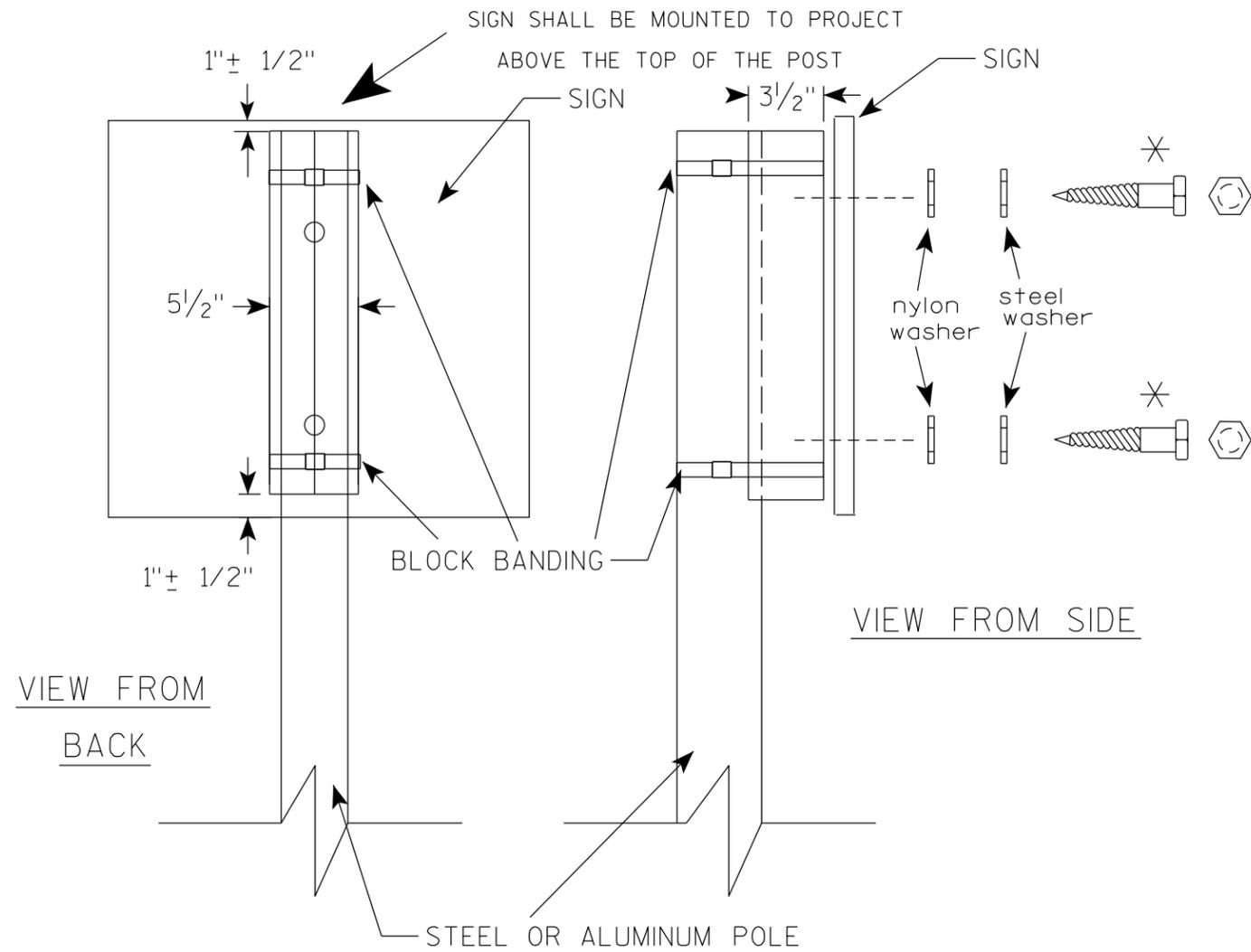
1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

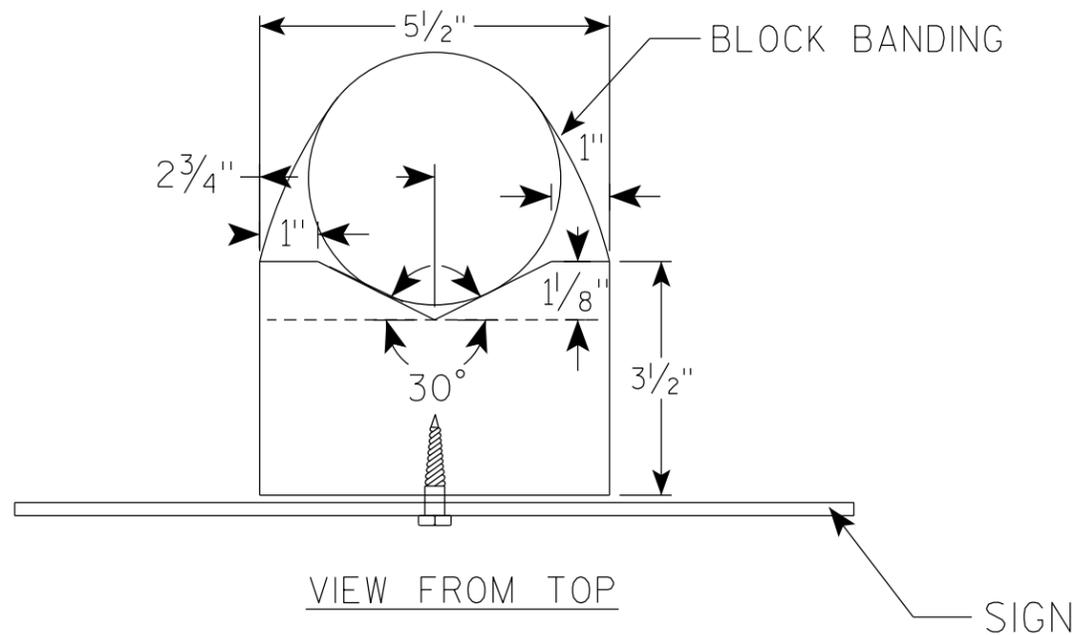
DATE 6/10/19 PLATE NO. A5-9.4



GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORMALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1/4" O.D. X 3/8" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1/4" O.D. X 3/8" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

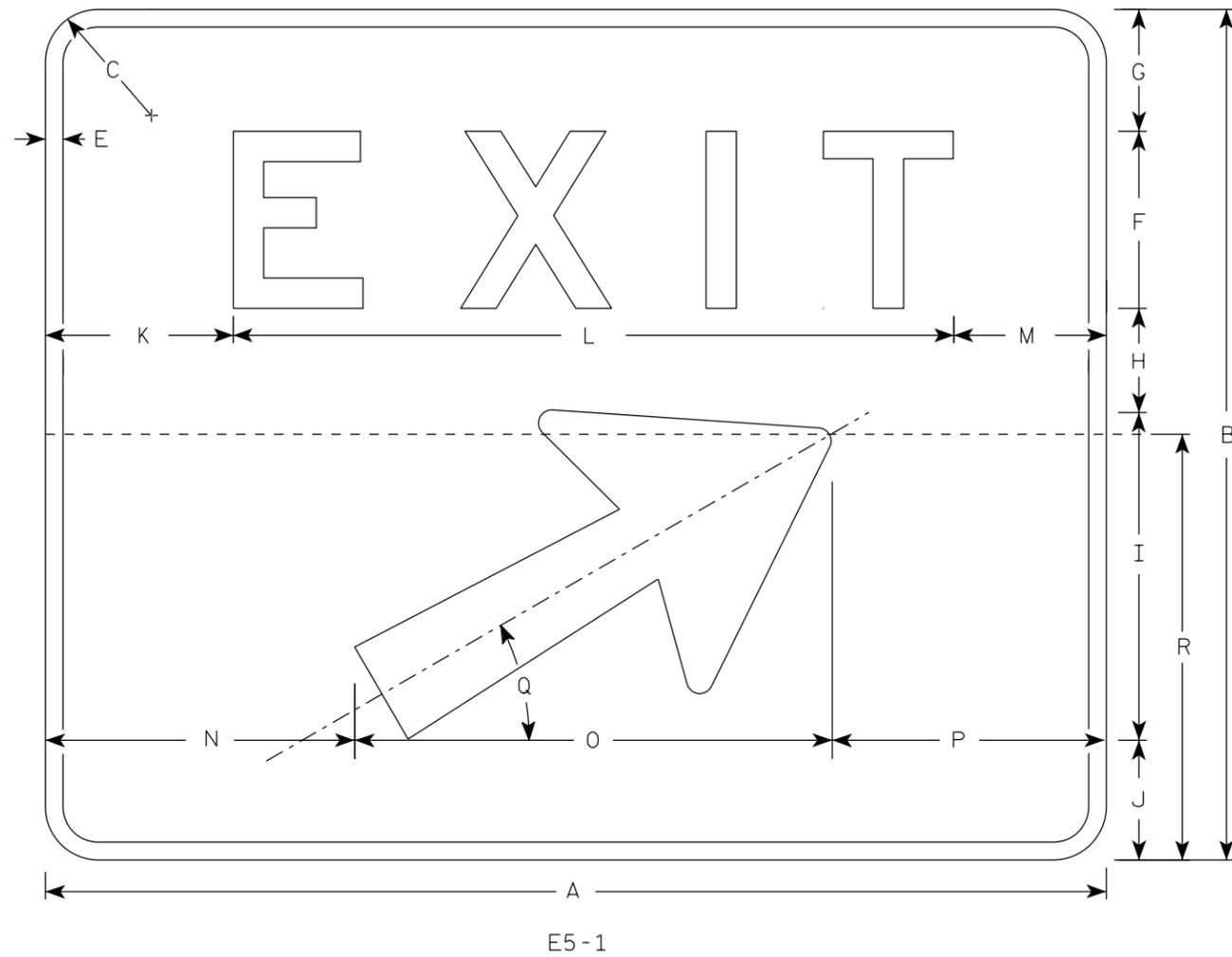
✱ LAG BOLTS SHALL BE 3/8" X 2 1/2"



BLOCK BANDING DETAIL (V-BLOCK OPTION)	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R Rauch</i> for State Traffic Engineer
DATE 4/19/2022	PLATE NO. A5-10.3

NOTES

1. Sign is Type II - Type H reflective
2. Color:
Background - Green
Message - White
3. Message Series - E
4. Sign shall be split into two separate pieces as shown on the detail by the dashed line (-----) for sizes 4 & 5.
5. Arrow is Type "A" from sign plate A1-1.
6. As per the Standard Spec's, this sign shall not have a vertical joint.
7. Size 3 E5-1 shall only be used in a Work Zone application with a Temporary Sign Support



7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3	48	48	3		1	10	6 7/8	5 7/8	18 1/2	6 3/4	8 1/2	31 1/8	8 3/8	11 1/2	27	9 1/2	30°	30									16.0
4	60	48	3		1	10	6 7/8	5 7/8	18 1/2	6 3/4	10 5/8	40 3/4	8 5/8	17 1/2	27	15 1/2	30°	30									20.0
5	72	60	3		1	12	9 3/4	10	18 1/2	9 3/4	13 1/4	48 1/2	10 1/4	23 1/2	27	21 1/2	30°	30									30.0

STANDARD SIGN
E5-1

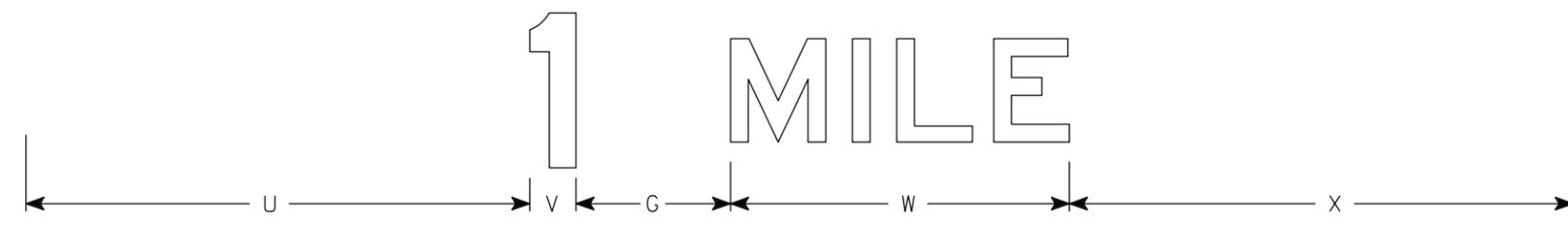
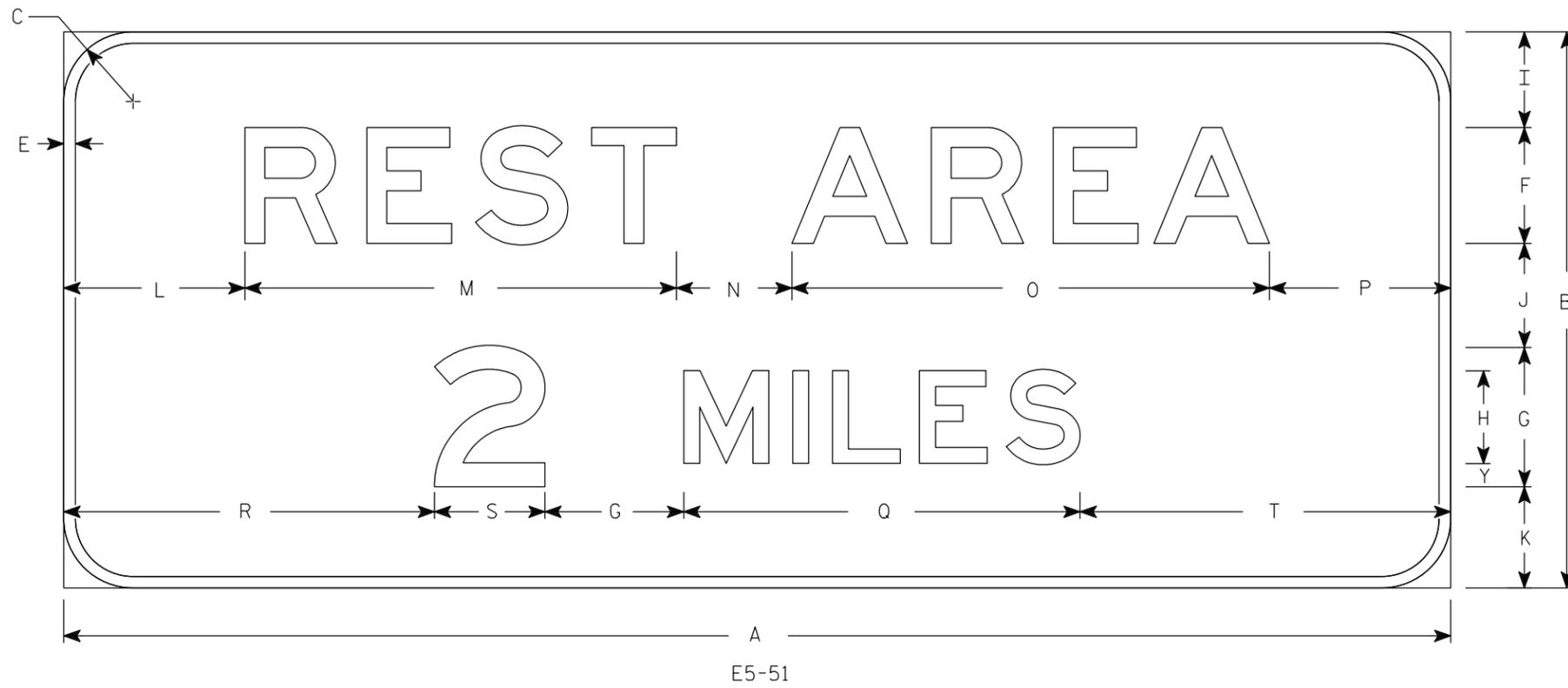
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 1/26/2023 PLATE NO. E5-1.12

NOTES

1. Sign is Type I - Type SH Reflective
2. Color:
Background - Blue
Message - White
3. Message Series - E
4. Substitute appropriate numeral and 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	120	48	6		1	10	12	8	8 1/4	9	8 3/4	15 5/8	37 3/8	10	41 3/8	15 5/8	34 1/4	32 1/8	9 1/2	32 1/8	39 1/8	3 1/2	26 1/4	39 1/8	2		40.0
5	144	60	6		2	13 1/4	15	10	10 7/8	10	10 7/8	12 7/8	49 3/4	13 3/8	55 1/8	12 7/8	42 7/8	37 1/8	11 7/8	37 1/8	45 7/8	4 3/8	32 7/8	45 7/8	2 1/2		60.0

STANDARD SIGN
E5-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*
for State Traffic Engineer

DATE 3/10/2022 PLATE NO. E5-51.9

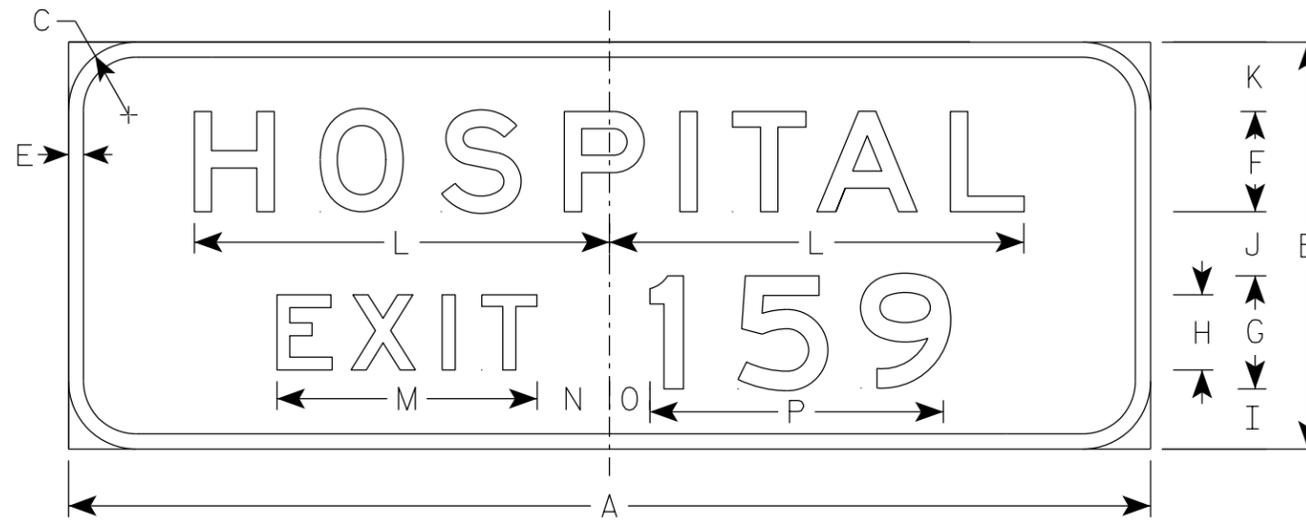
PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

7

7

NOTES

1. Sign is Type I - Type SH Reflective
2. Color:
Background - Blue
Message - White
3. Message Series - E
4. Apply proper Exit Numbers and letters, optically center to 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											54.0
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											54.0

TYPICAL SIGNS
E10-61

WISCONSIN DEPT OF TRANSPORTATION

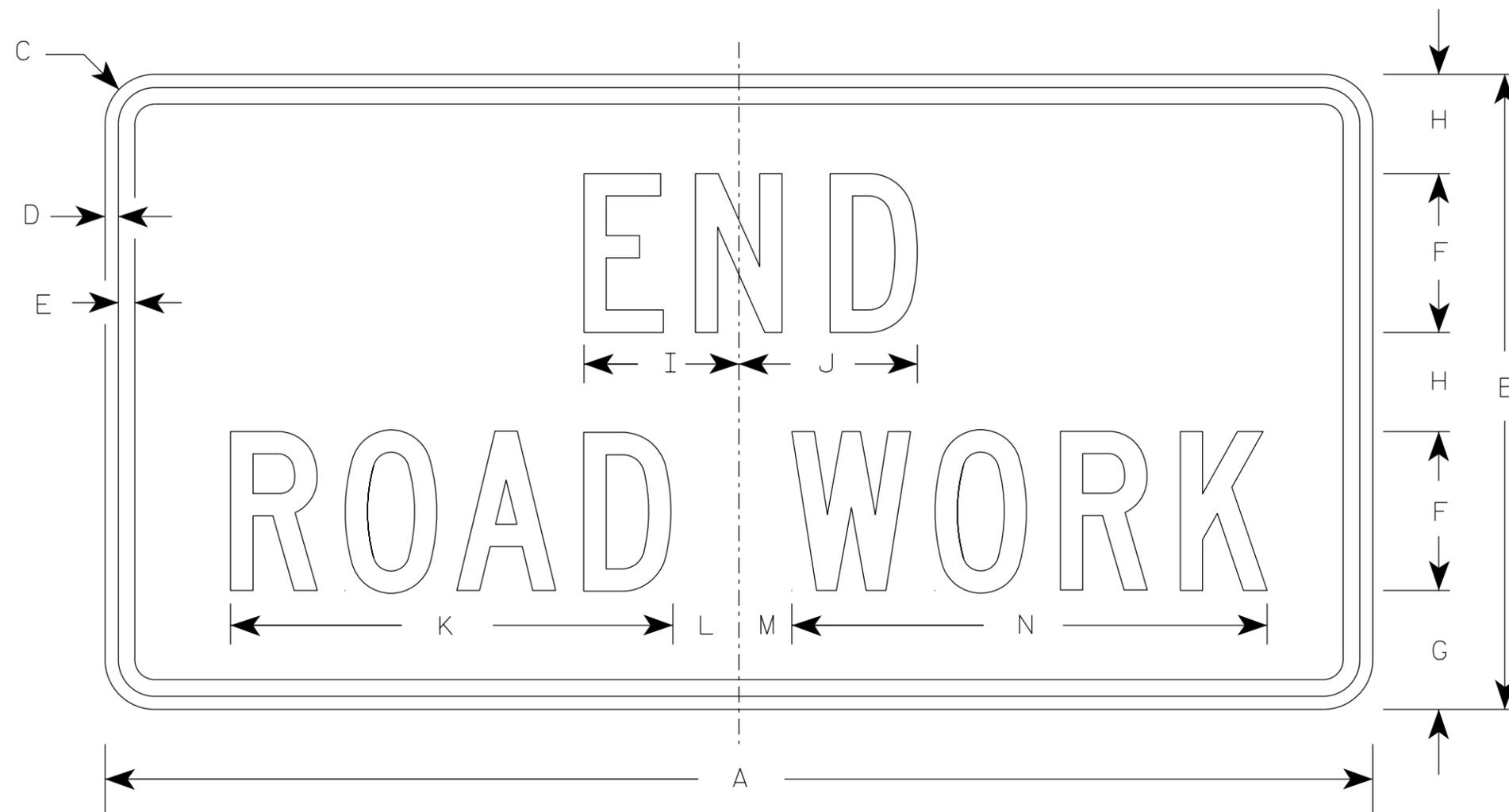
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 11/5/2020 PLATE NO. E10-61.4

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

NOTES

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



G20-2A

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 1/2	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5
2	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
2M	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
3	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
4	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
5	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0

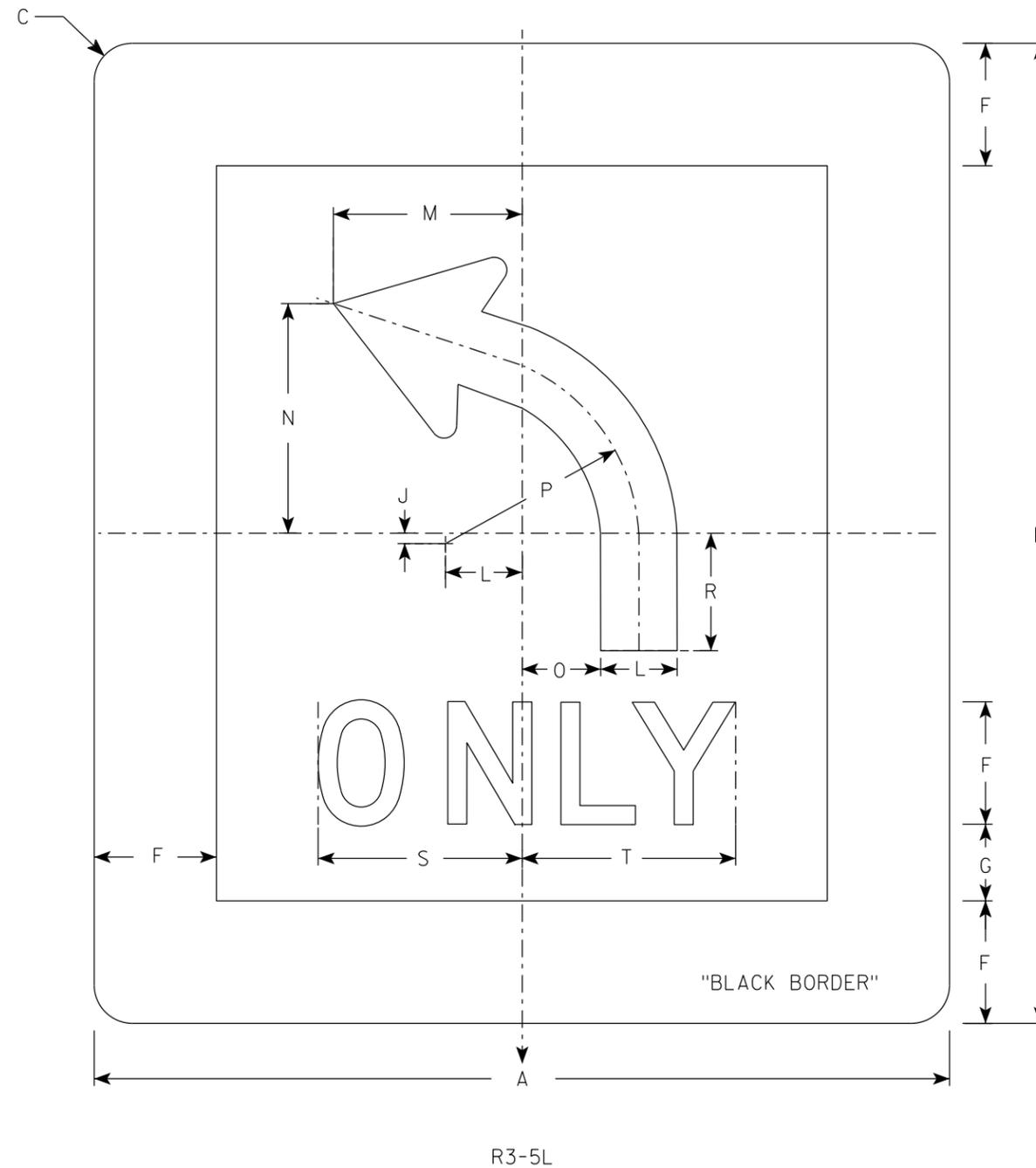
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 1/26/2023 PLATE NO. G20-2A.10

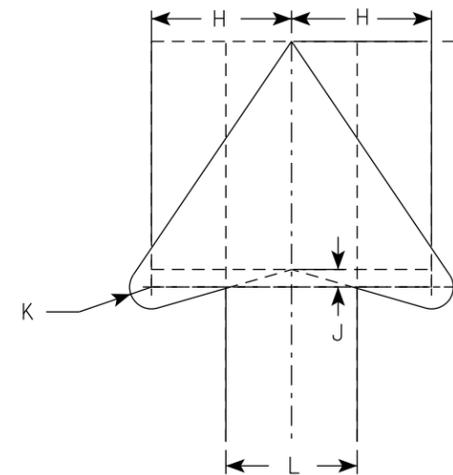
PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**



R3-5L

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - Black
3. Message Series - D
4. R3-5R is the same as R3-5L except curved portion of arrow points right.
5. The 6" border is non-reflective black.



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																											
2S	42	48	1 7/8			6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							14.0
2M	42	48	1 7/8			6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							14.0
3																											
4																											
5																											

STANDARD SIGN
R3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/26/24 PLATE NO. R3-5.7

PROJECT NO:

HWY:

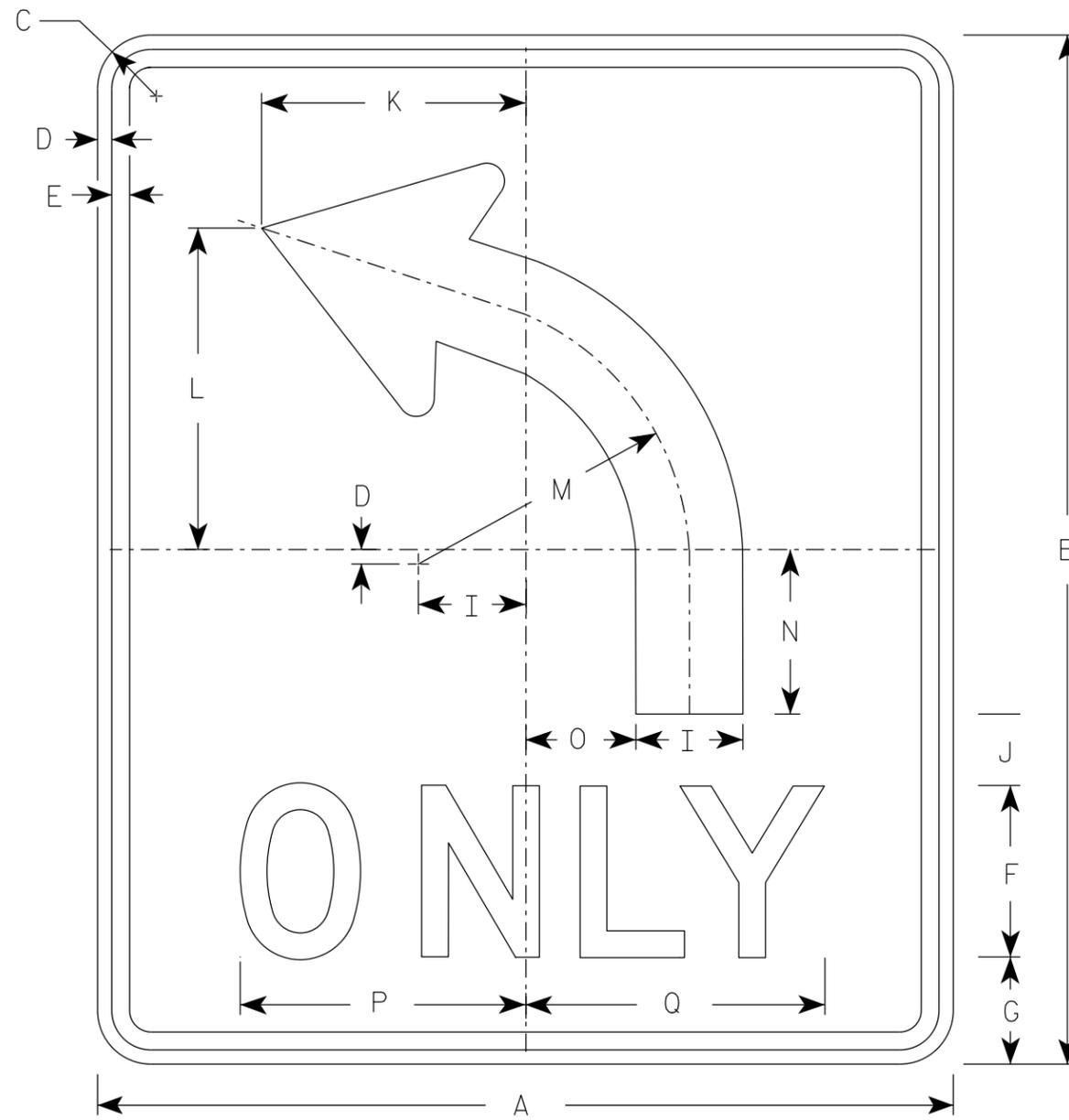
COUNTY:

SHEET NO:

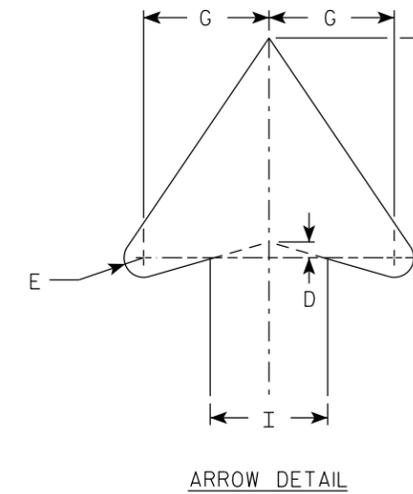
E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
 - Background - White
 - Message - Black
3. Message Series - D
4. R3-50R is the same as R3-50L except curved portion of arrow points right.



R3-50L



ARROW DETAIL

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 7/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
2M	30	36	1 7/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
3																											
4																											
5																											

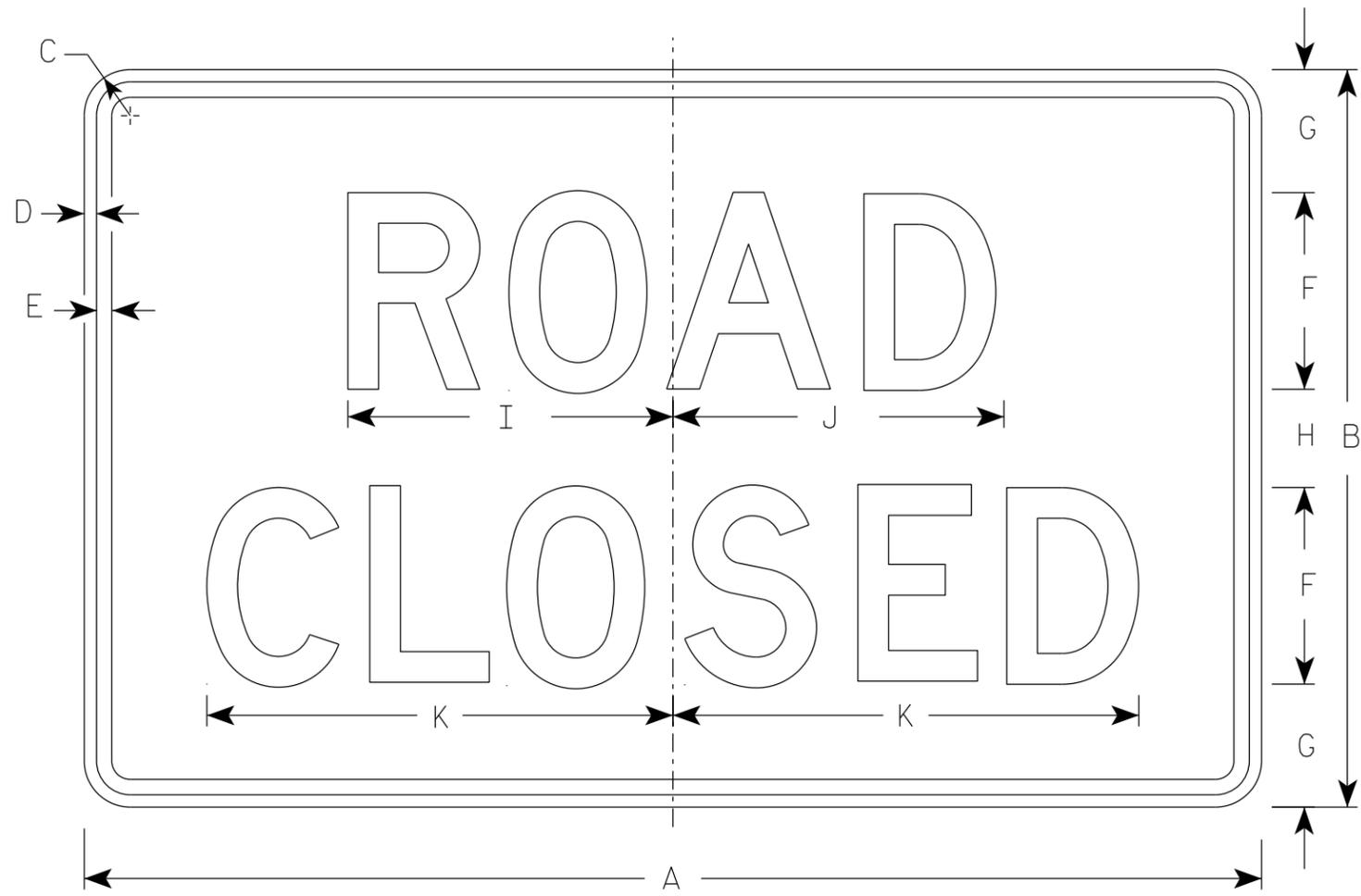
STANDARD SIGN
R3-50

WISCONSIN DEPT OF TRANSPORTATION

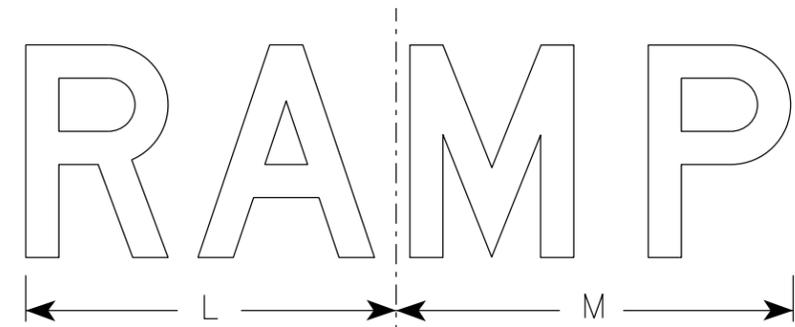
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/23/23 PLATE NO. R3-50.3

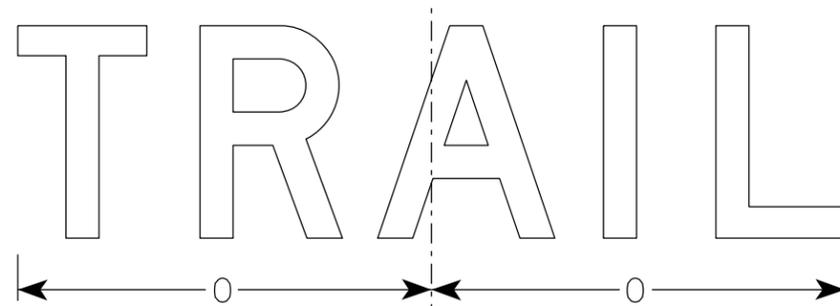
PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**



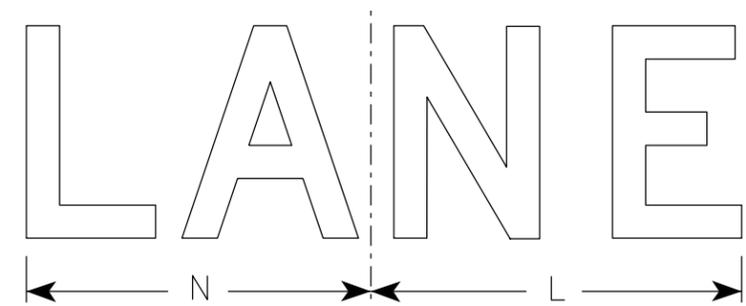
R11-2



R11-2R



R11-2T



R11-2L

NOTES

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

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

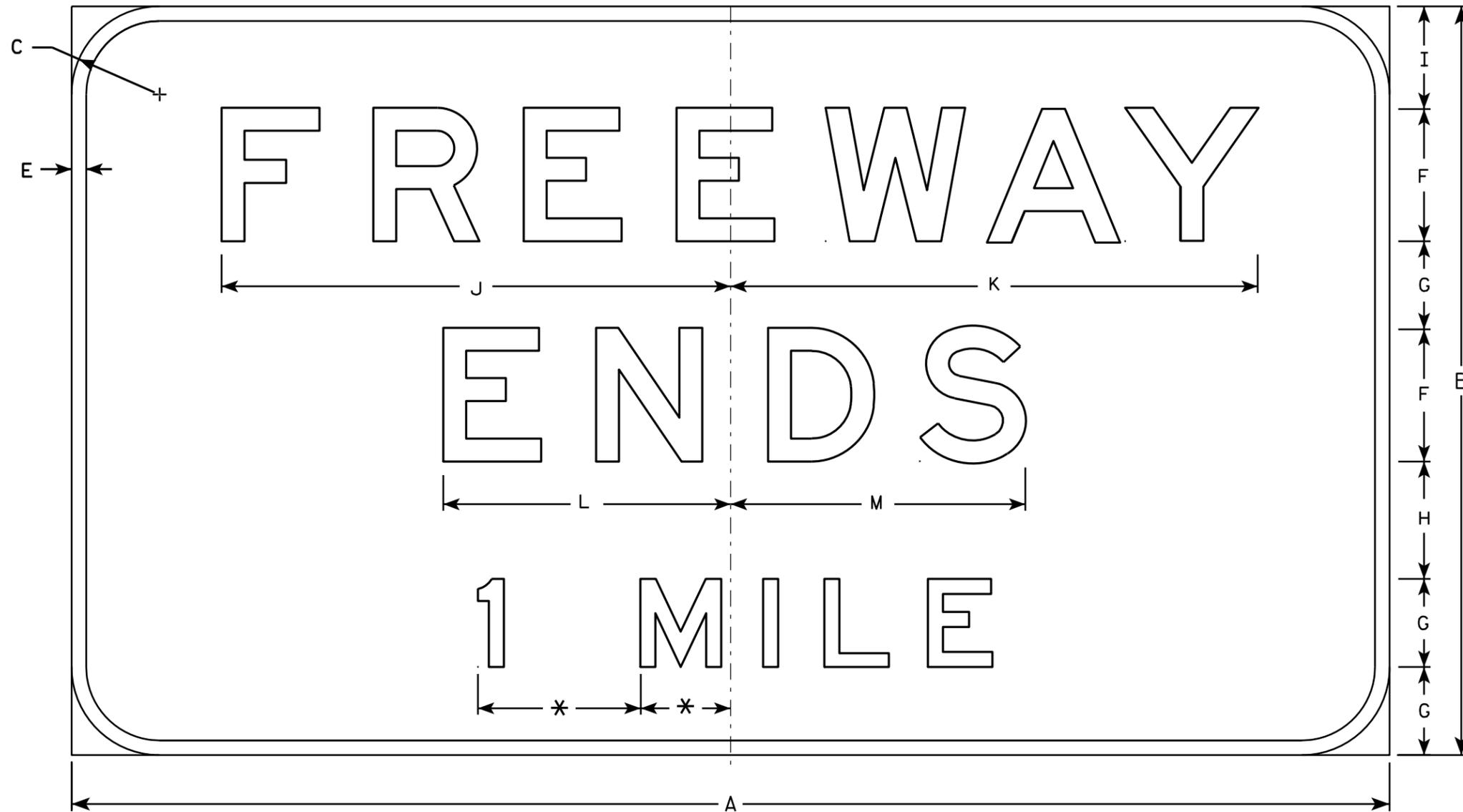
APPROVED *Matthew R Rauch*
For State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-2.12

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

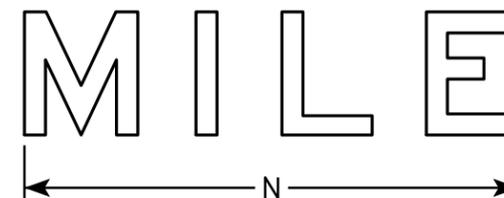
NOTES

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.



W19-1

* 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	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:

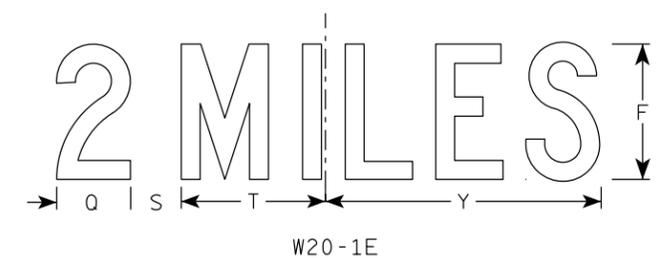
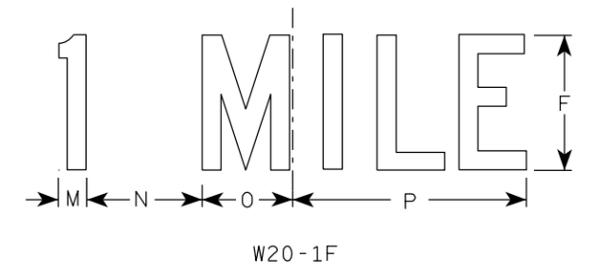
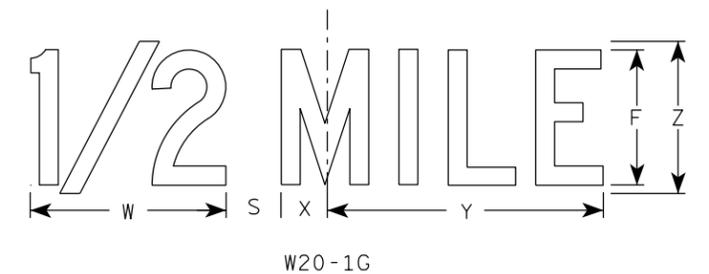
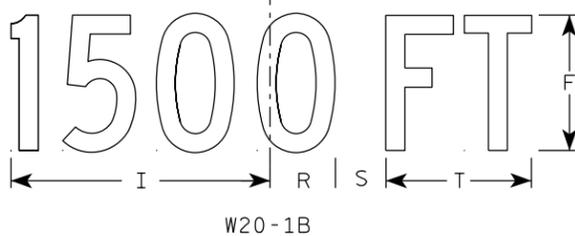
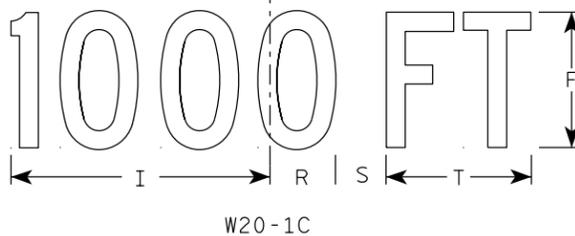
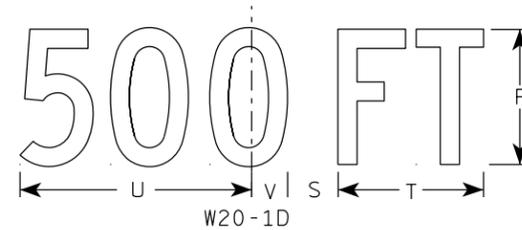
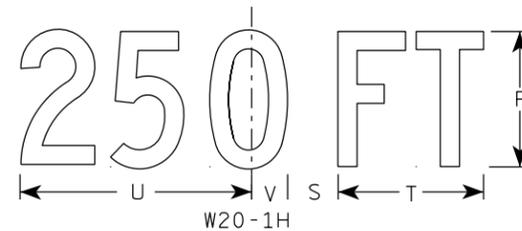
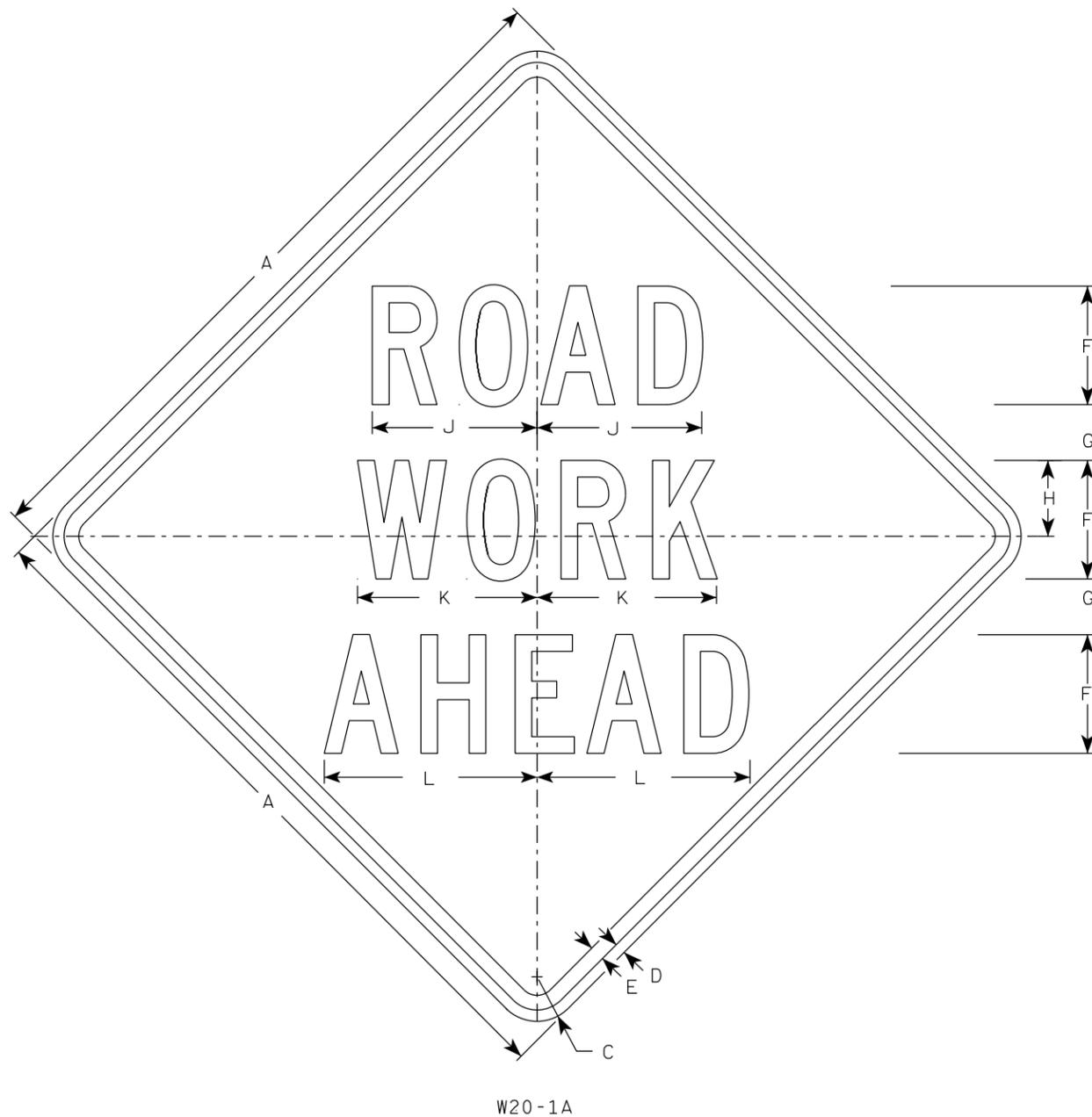
COUNTY:

SHEET NO:

E

NOTES

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



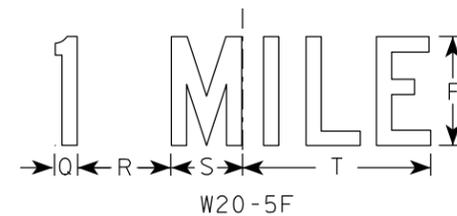
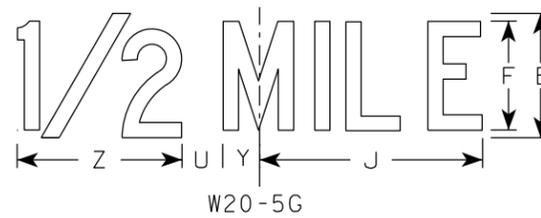
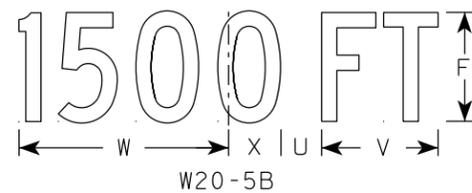
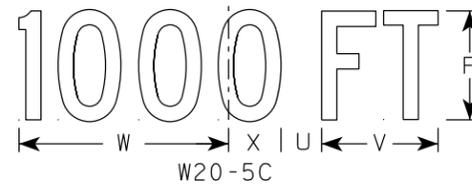
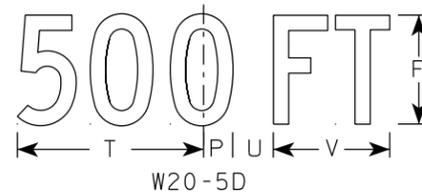
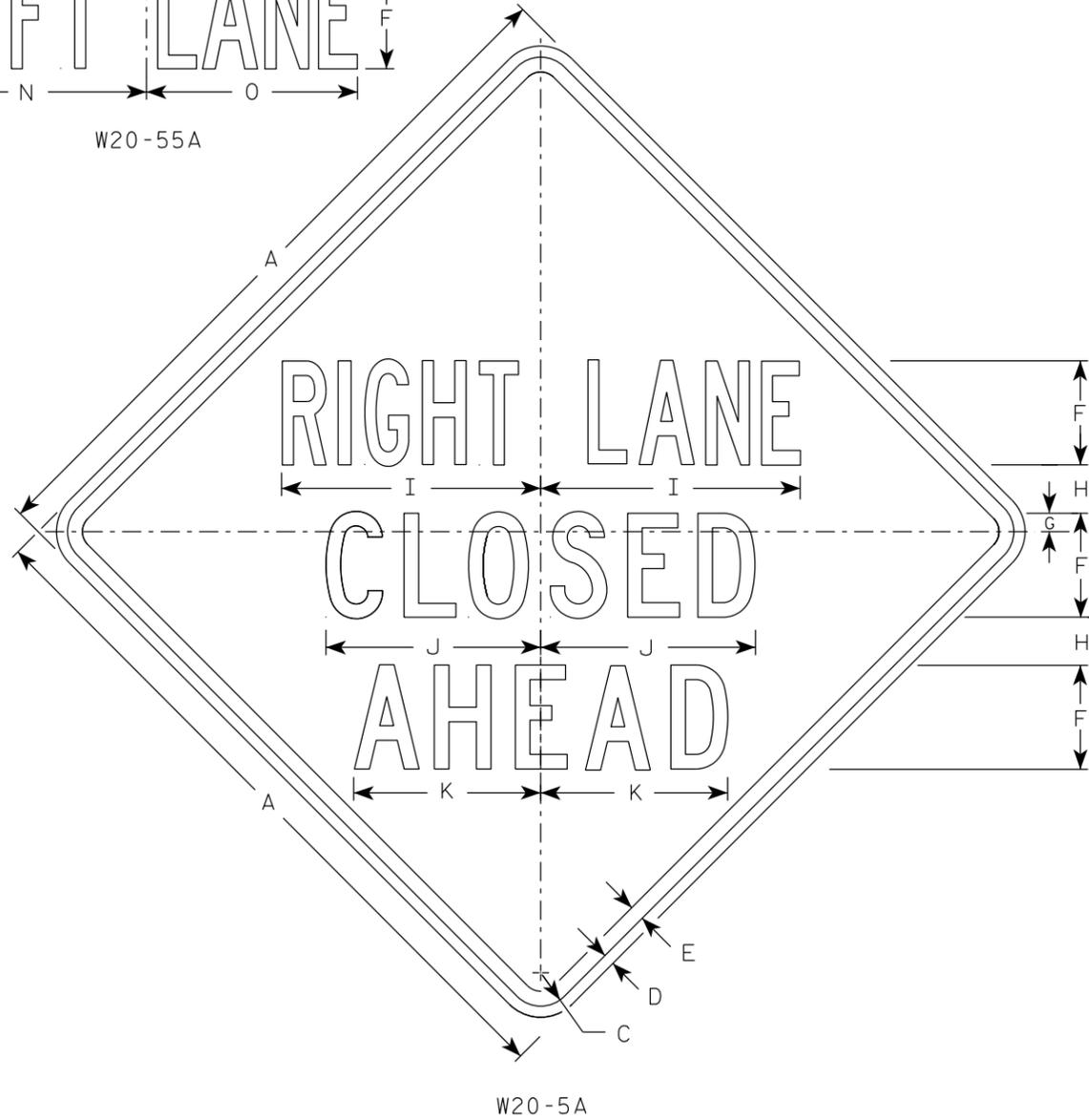
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13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

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-1.12



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - See Note 5
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. " _____ LANE" is Series B.
All other copy is Series C.

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	2 1/4	5/8	3/4	5	7/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 7/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

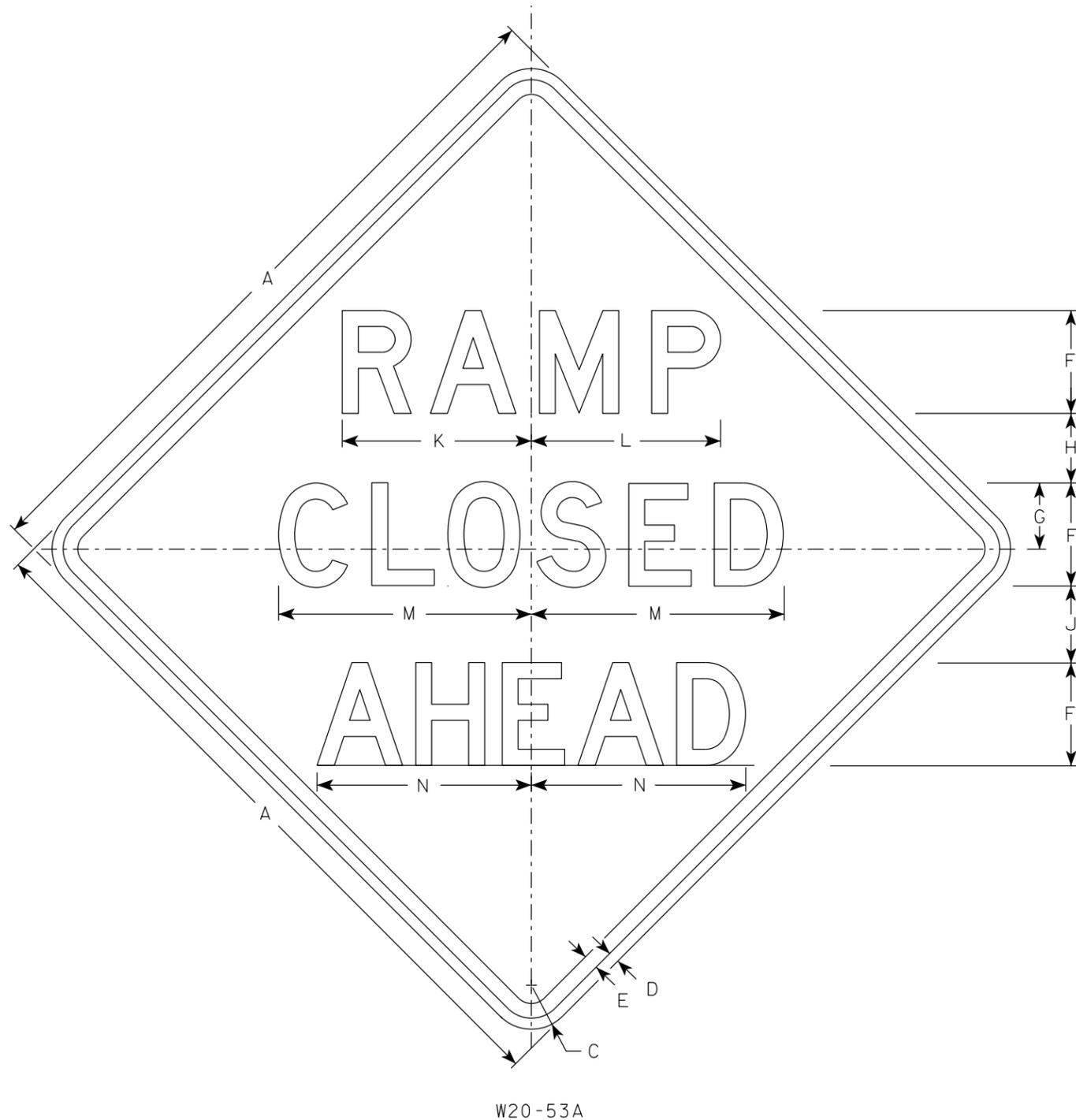
STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

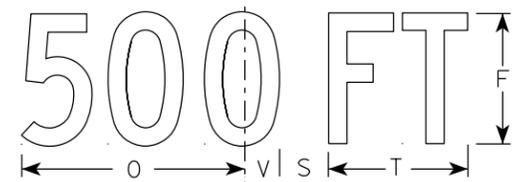
APPROVED *Matthew R Rauch*
For State Traffic Engineer

DATE 3/27/24 PLATE NO. W20-5.12

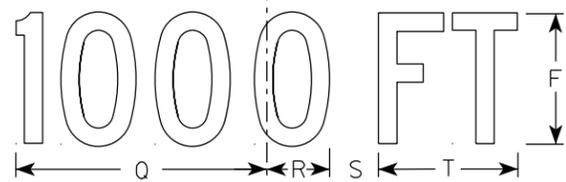
PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**



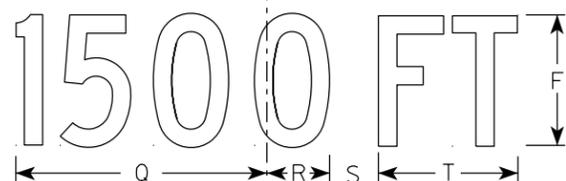
W20-53A



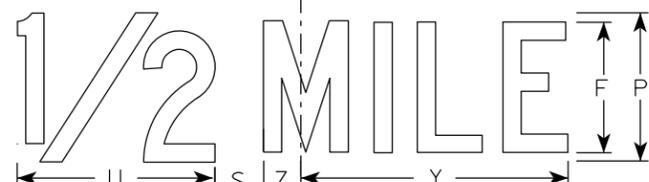
W20-53D



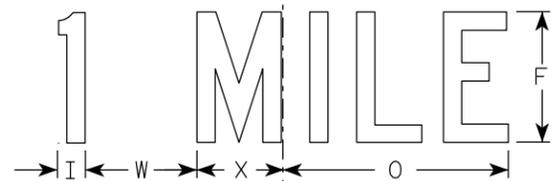
W20-53C



W20-53B



W20-53G



W20-53F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - see note 5
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. Lines 1 and 2 are Series D.
Line 3 is Series D for AHEAD and Series C for all other distances.

7

7

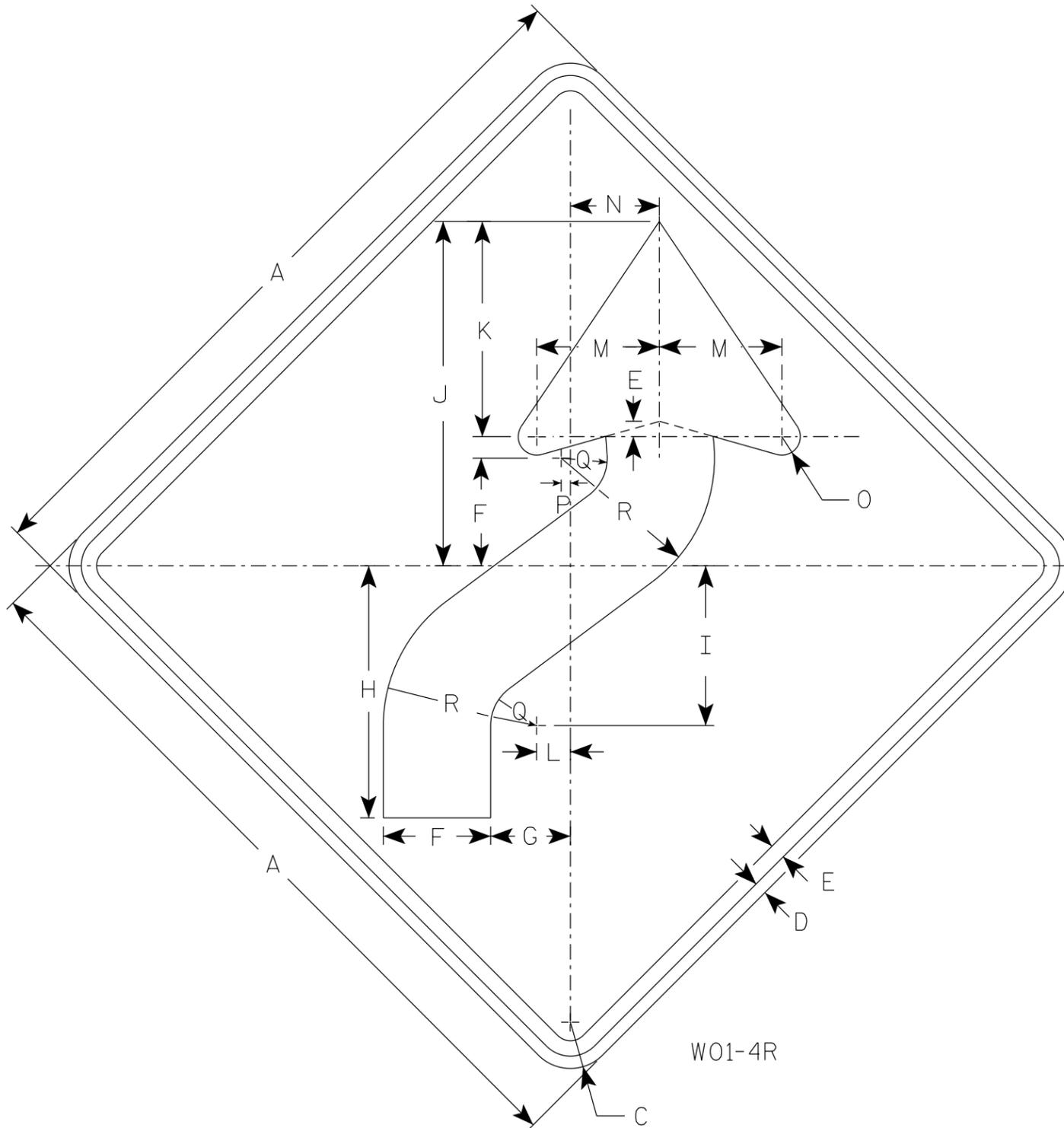
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	9 1/4	9 1/4	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-53A,B,C,D,F,G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-53.2



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	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
2S	48		3	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
2M	48		3	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
3	48		3	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
4	48		3	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
5	48		3	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
W01-4

WISCONSIN DEPT OF TRANSPORTATION

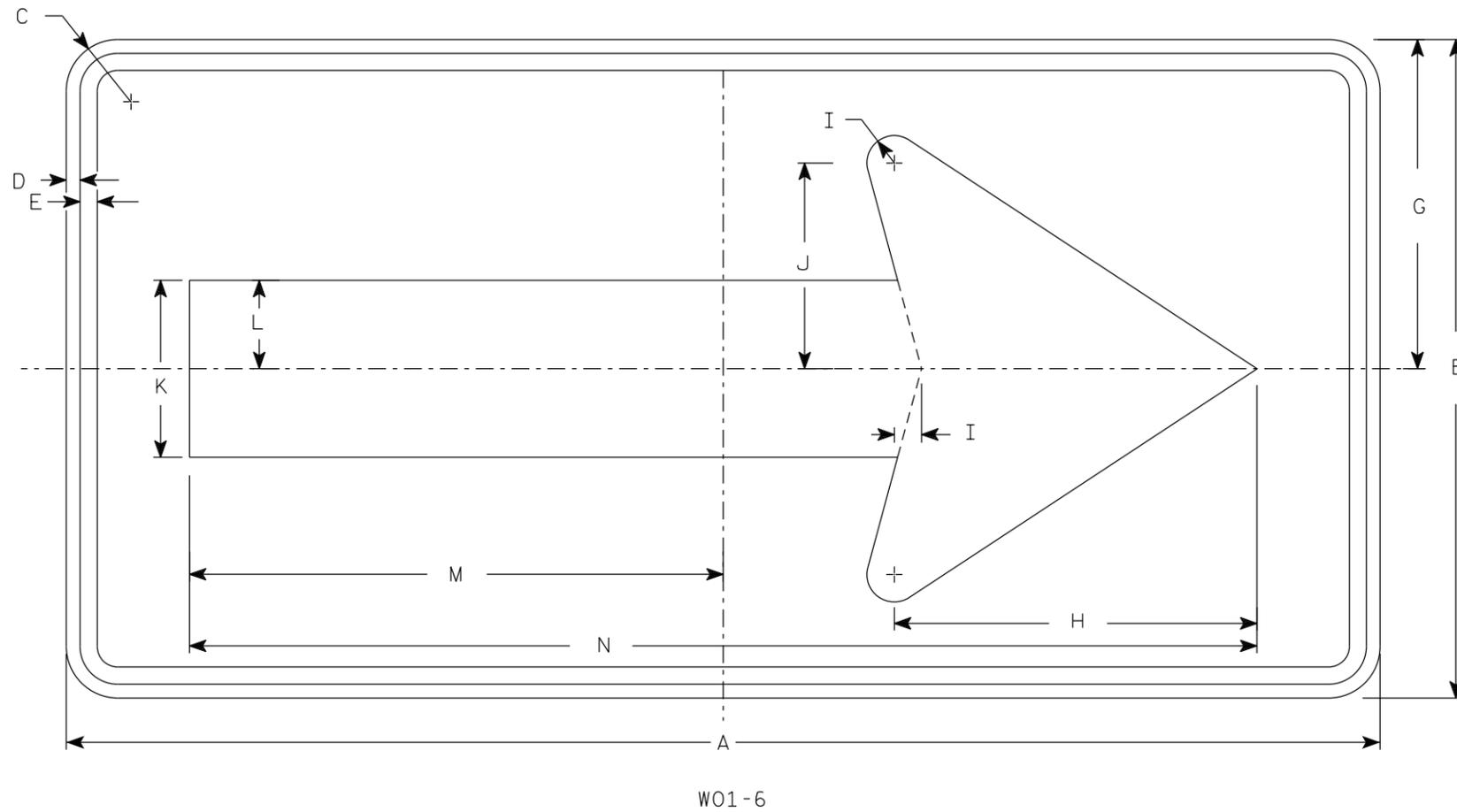
APPROVED *Matthew R Rauch*
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. W01-4.2

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

NOTES

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



7

7

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

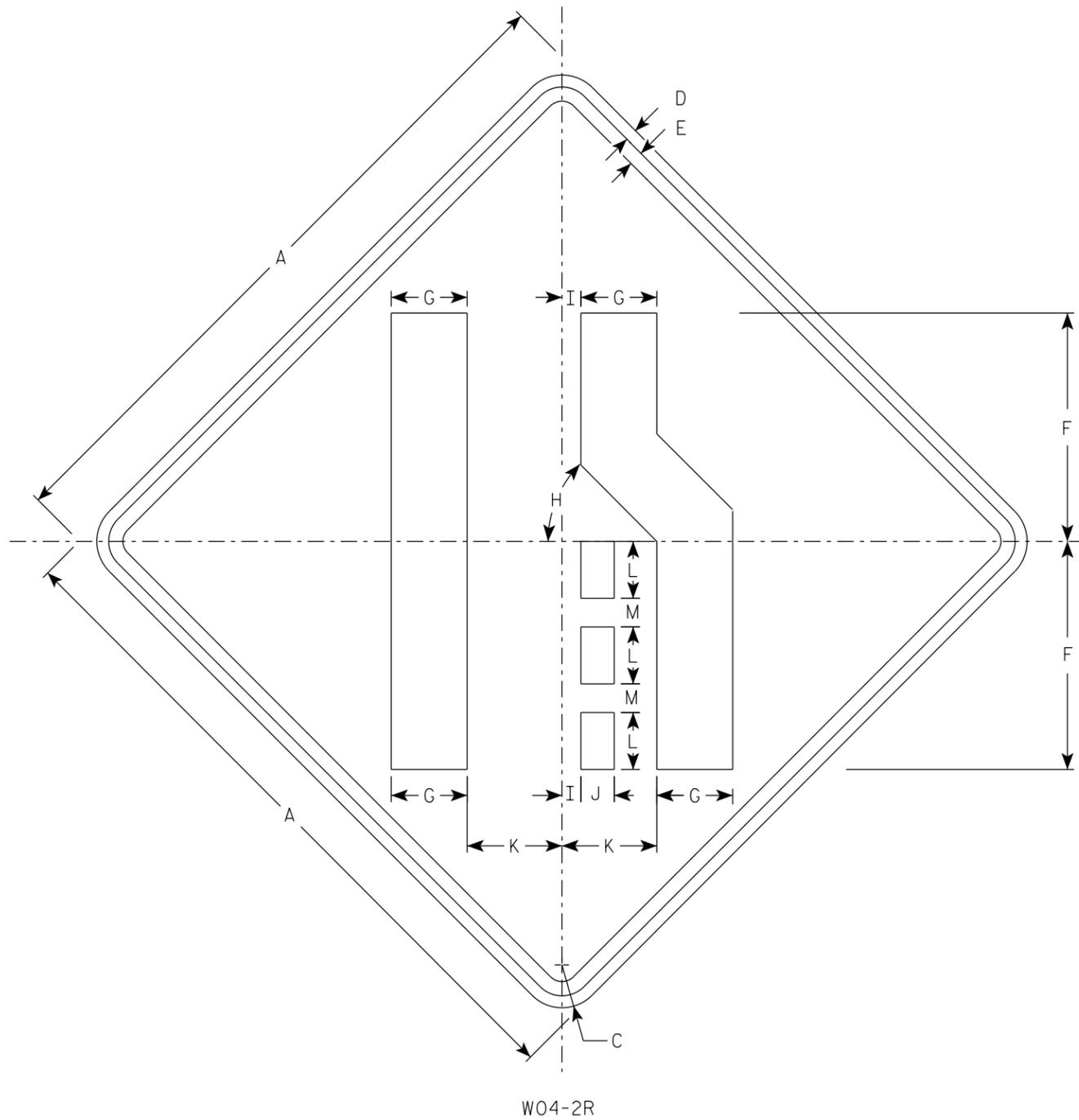
STANDARD SIGN
W01-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. W01-6.2

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**



W04-2R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

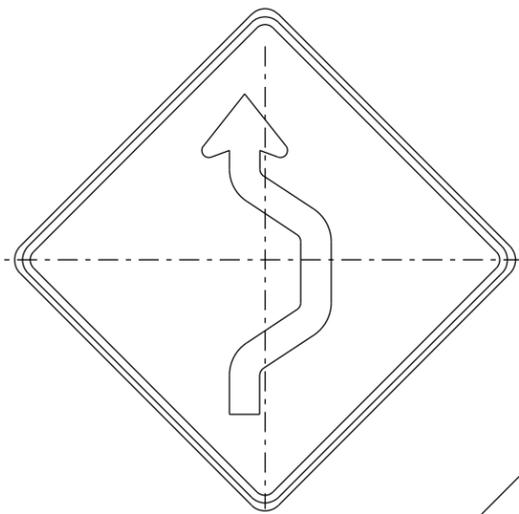
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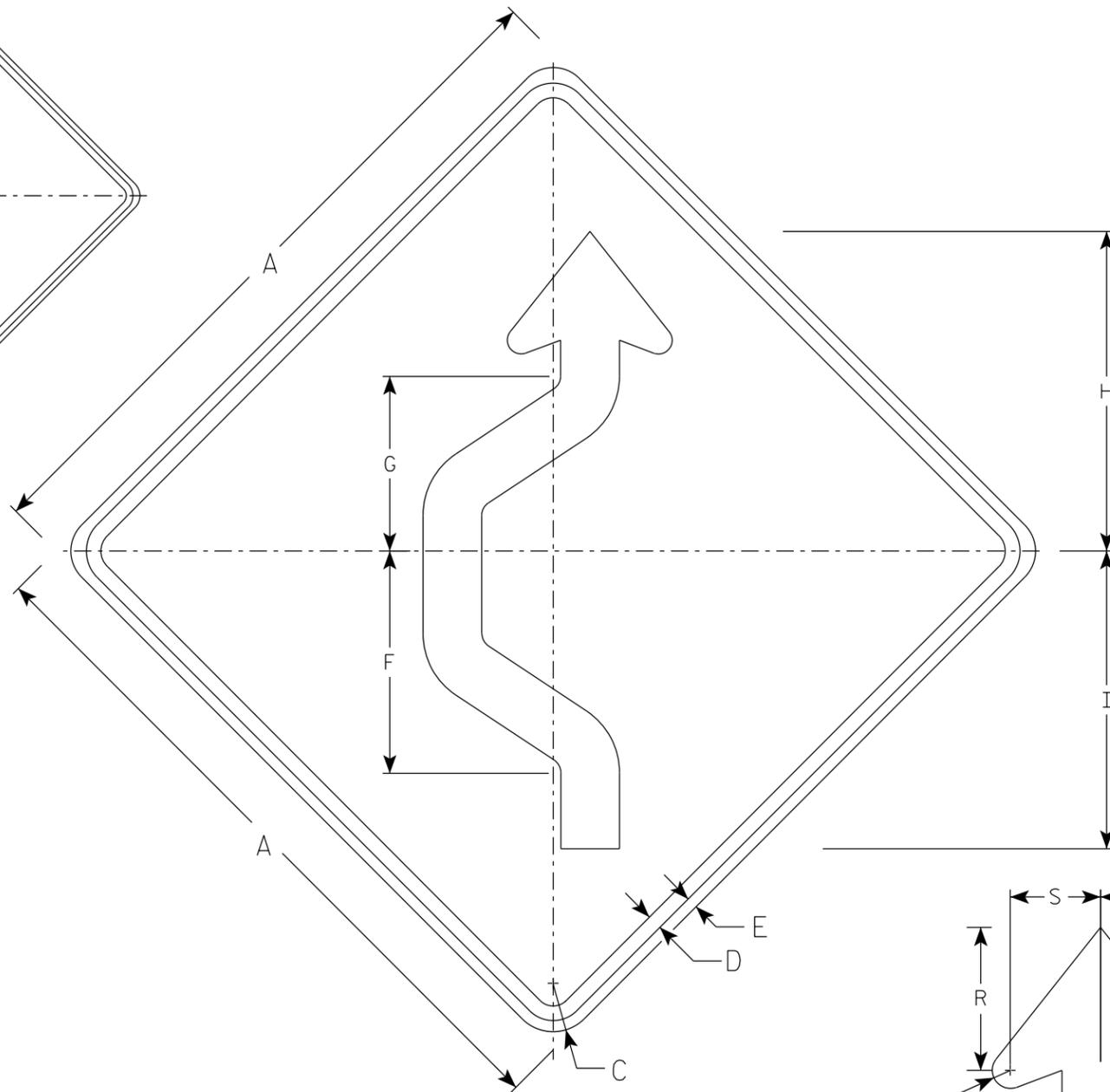
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

PROJECT NO:

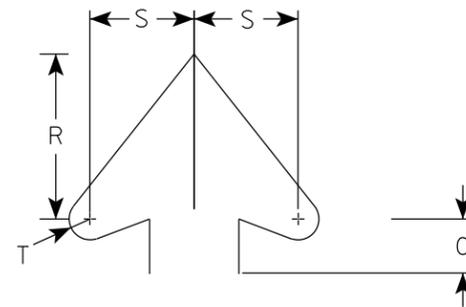
SHEET NO: **E**



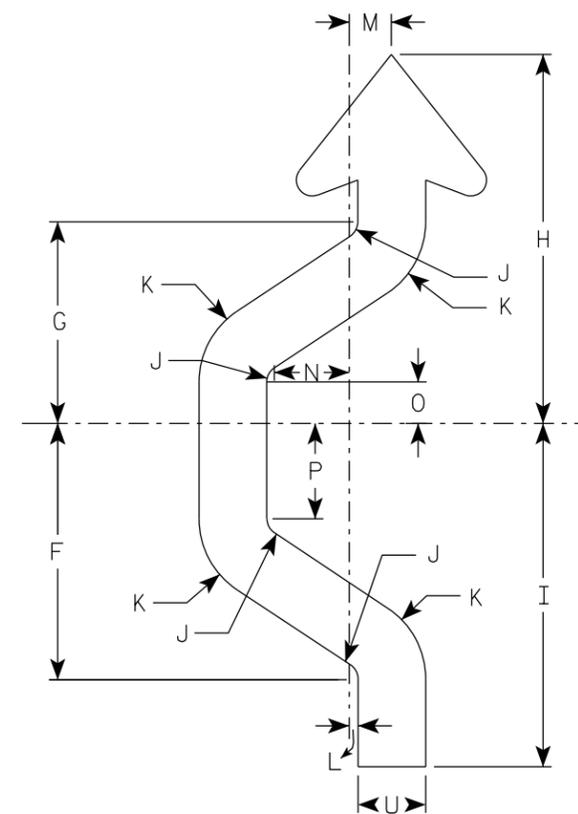
W024-1R



W024-1L



Arrowhead Detail



Arrow Detail

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W024-1R is the same as W024-1L except reversed along the vertical centerline.

7

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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		2 1/4	5/8	1/2	11 3/8	8 7/8	16 3/8	15 1/4	3/4	3 3/4	3/8	2	3 3/8	1 7/8	4 1/4		5 1/2	3 1/2	5/8	3						9.0
2S	48		3	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16.0
2M	48		3	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16.0
3	48		3	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16.0
4	48		3	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16.0
5	48		3	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16.0

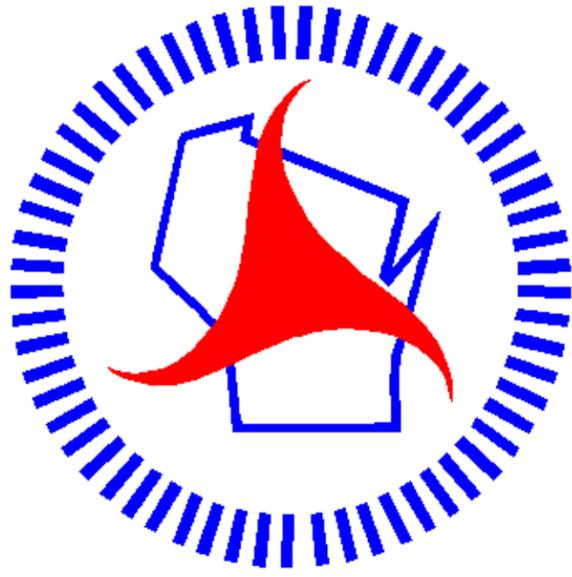
STANDARD SIGN
W024-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*
For State Traffic Engineer

DATE 2/1/2024 PLATE NO. W024-1.2

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ **E**



Wisconsin Department of Transportation

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