

PROJECT ID: 7575-01-60  
WITH:

COUNTY: LA CROSSE

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.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates

TOTAL SHEETS = 106

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY REHABILITAION - MAINTENANCE PROJECT

LA CROSSE - SPARTA

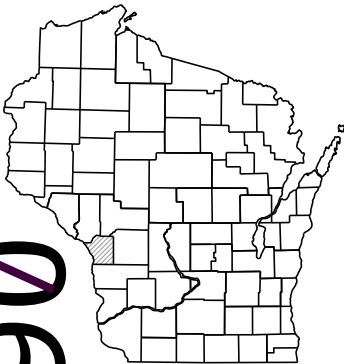
GILLETTE ST. TO STH 157

STH 16

LA CROSSE COUNTY

STATE PROJECT NUMBER  
7575-01-60

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7575-01-60	WISC 2013307	1



DESIGN DESIGNATION

A.A.D.T.	=	32,800
A.A.D.T.	=	
D.H.V.	=	
D.D.	=	
T.	=	6.2%
DESIGN SPEED	=	45 MPH
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	

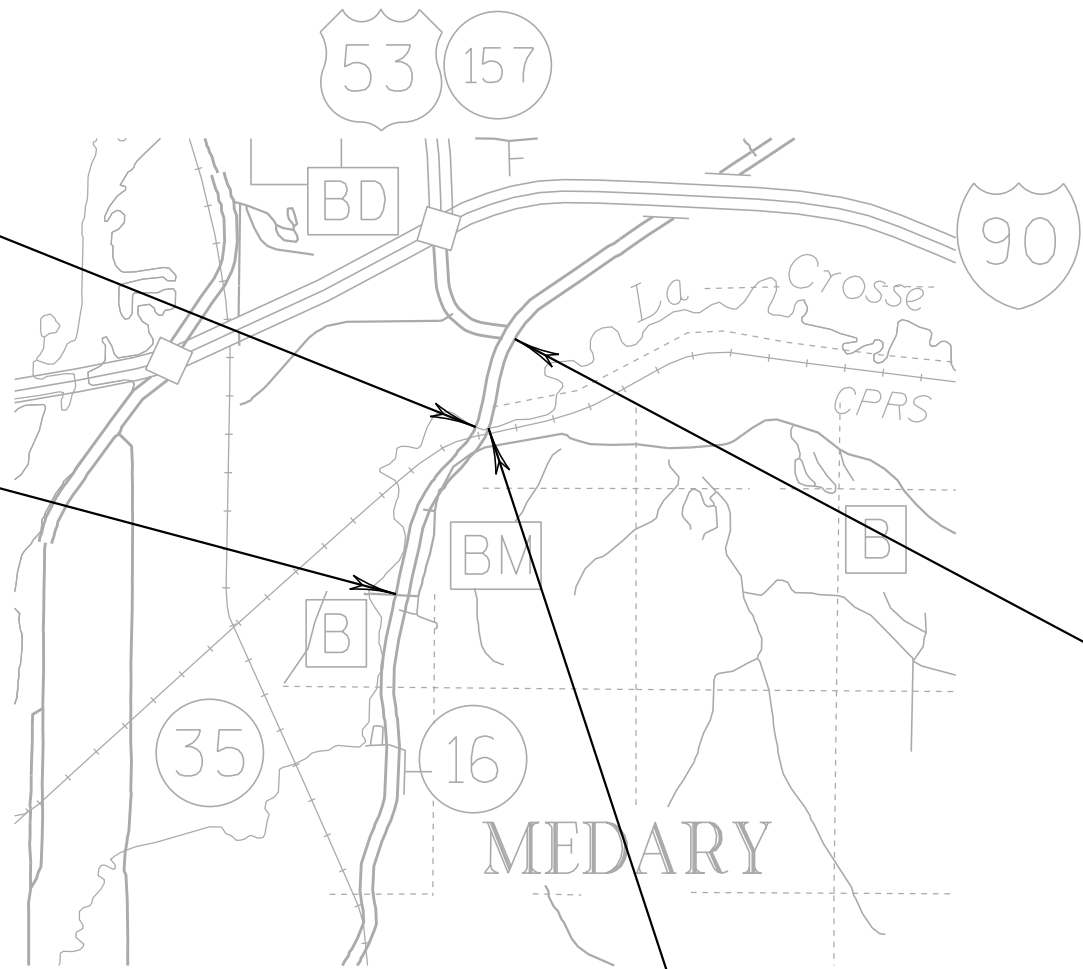
PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

BEGIN PROJECT  
WB STA. 270+49.9  
EB STA. 270+49.7

STRUCTURE B-32-111  
STA. 315+27.90 WB - STA. 324+13.50 WB

END PROJECT  
WB STA. 335+30.2  
EB STA. 335+14.0

STRUCTURE B-32-115  
STA. 315+84.70 EB - STA. 324+37.70 EB



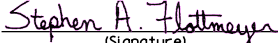
LAYOUT  
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.227 MI.

- "COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), LA CROSSE COUNTY."

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	WISDOT
Designer	TIM REICHGELT
Project Manager	REINY YAHNKE
Regional Examiner	
Regional Supervisor	STEVE FLOTTMEYER
C.O. Examiner	

APPROVED FOR THE DEPARTMENT  
DATE: 2/28/13  (Signature)

E



UTILITY CONTACTS

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333 N Front St  
P.O. Box 4800  
La Crosse, WI 54602  
(608) 796-5543  
steve.blado@centurytel.com  
Communication Line

Randy Turtenwald  
City of La Crosse  
400 La Crosse St  
La Crosse, WI 54601  
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Sewer and Water

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Sewer and Water

Tim Orcutt  
Mediacom LLC Wisconsin  
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torcutt@mediacomllc.com  
Communication Line

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Xcel Energy  
1414 W Hamilton Ave  
P.O. Box 8  
Eau Claire, WI 54702-0008  
(715) 737-2574  
nancy.j.dotson@xcelenergy.com  
Electric Transmission,  
Electric Distribution, Gas

Brandon Storm  
Charter Communications  
2701 Daniels St.  
Madison, WI 53718  
(608) 444-9493  
brandon.storm@chartercom.com  
Communication Line

Dan McDonald  
City of Onalaska  
415 Main St  
Onalaska, WI 54650  
(608) 781-9507  
dmcdonald@cityofonalaska.com  
Road Facility, Street Lighting

Kurt Childs  
Dairyland Power Cooperative  
3200 East Ave S  
P.O. Box 817  
La Crosse, WI 54602  
(608) 788-4000  
kdc@dairynet.com  
Electricity

Jim Carlson  
Northern Natural Gas Company  
8101 Birchwood Ct Ste F  
Johnston, IA 50131  
(515) 360-9242  
Jim.Carlson@nngco.com  
Gas/Petroleum

Jim Kostuch  
Windstream KDL, Inc.  
13935 Bishops Drive  
Brookfield, WI 53005  
(262) 792-7938  
James.Kostuch@windstream.com  
Communication Line

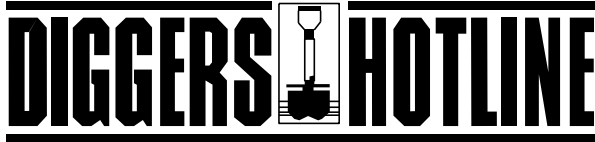
DESIGN CONTACTS

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E-MAIL: timothy.reichgelt@dot.wi.gov

DNR CONTACT

KAREN KALVELAGE  
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FAX: (608) 785-9990  
E-MAIL: karen.kalvelage@wi.gov



Call 811 3 Work Days Before You Dig  
or Toll Free (800) 242-8511  
Hearing Impaired TDD (800) 542-2289  
www.DiggersHotline.com

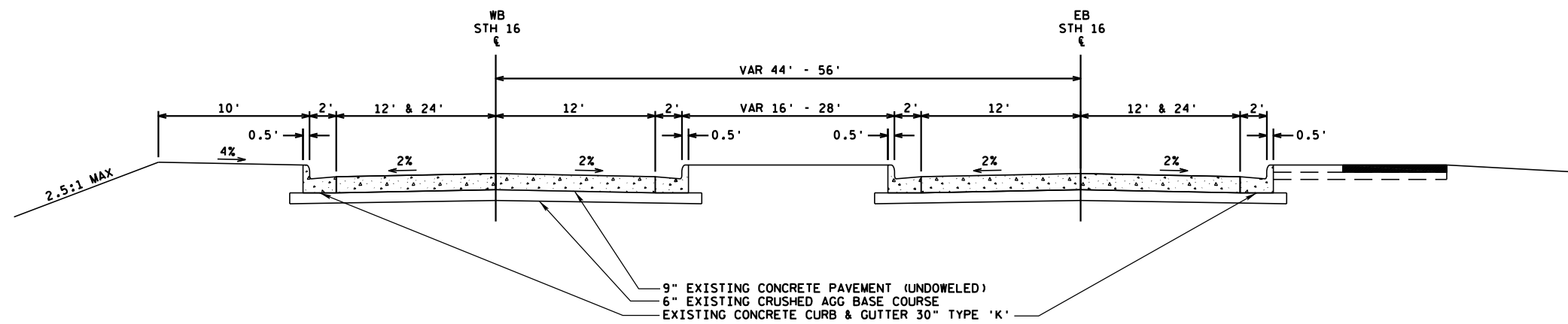
STANDARD ABBREVIATIONS

A.D.T.	▪ AVERAGE DAILY TRAFFIC	LT.	▪ LEFT
AGG.	▪ AGGREGATE	M.P.	▪ MARKER POST
AH	▪ AHEAD	N.	▪ NORTH
<	▪ ANGLE	N.C.	▪ NORMAL CROWN
ASPH.	▪ ASPHALTIC	NO.	▪ NUMBER
B.F.	▪ BACK FACE	PAV'T	▪ PAVEMENT
B.M.	▪ BENCH MARK	P.C.	▪ POINT OF CURVATURE
BEG.	▪ BEGIN	P.I.	▪ POINT OF INTERSECTION
BK	▪ BACK	P.L.	▪ PROPERTY LINE
C, C.L.	▪ CENTERLINE	P.L.E.	▪ PERMANENT LIMITED EASEMENT
Δ	▪ CENTRAL ANGLE OR DELTA	P.T.	▪ POINT OF TANGENCY
C.M.P.	▪ CORRUGATED METAL PIPE	P.E.	▪ PRIVATE ENTRANCE
C.M.C.P.	▪ CORRUGATED METAL CATTLE PASS	R.	▪ RADIUS
CO.	▪ COUNTY	R/L	▪ REFERENCE LINE
C.P.	▪ CULVERT PIPE	R.	▪ RIVER
CR	▪ CRUSHED	RD.	▪ ROAD
CR.	▪ CREEK	REQ'D	▪ REQUIRED
C. & G.	▪ CURB AND GUTTER	R.H.F.	▪ RIGHT-HAND FORWARD
CTH	▪ COUNTY TRUNK HIGHWAY	R/W	▪ RIGHT-OF-WAY
C.Y.	▪ CUBIC YARD	RT.	▪ RIGHT
CWT.	▪ HUNDREDWEIGHT	S.	▪ SOUTH
D.	▪ DEGREE OF CURVE	S.F.	▪ SQUARE FEET
DIA.	▪ DIAMETER	S.D.D.	▪ STANDARD DETAIL DRAWING
DISCH.	▪ DISCHARGE	SHLDR.	▪ SHOULDER
DWY.	▪ DRIVEWAY	SHR.	▪ SHRINKAGE
E.	▪ EAST	S/L	▪ SURVEY LINE
EA.	▪ EACH	STH	▪ STATE TRUNK HIGHWAY
ELEC.	▪ ELECTRIC	STA.	▪ STATION
EL. OR ELEV.	▪ ELEVATION	T	▪ TANGENT
EXC.	▪ EXCAVATION	T.	▪ TRUCKS (PERCENT OF)
FERT	▪ FERTILIZER	T.C.	▪ TOP OF CURB
F.E.	▪ FIELD ENTRANCE	TEMP.	▪ TEMPORARY
F.L. OR F/L	▪ FLOWLINE	T.L.E.	▪ TEMPORARY LIMITED EASEMENT
F.P.	▪ FIELD POST	-T-, TEL.	▪ TELEPHONE
INL.	▪ INLET	V.C.	▪ VERTICAL CURVE
INTERS.	▪ INTERSECTION	UNCL.	▪ UNCLASSIFIED
JT.	▪ JOINT	USGS	▪ UNITED STATES GEOLOGICAL SURVEY
L.	▪ LENGTH (OF CURVE)	U.G.	▪ UNDERGROUND (CABLE)
L.B.	▪ POUND	W.	▪ WEST
L.C.	▪ LONG CHORD OF CURVE		

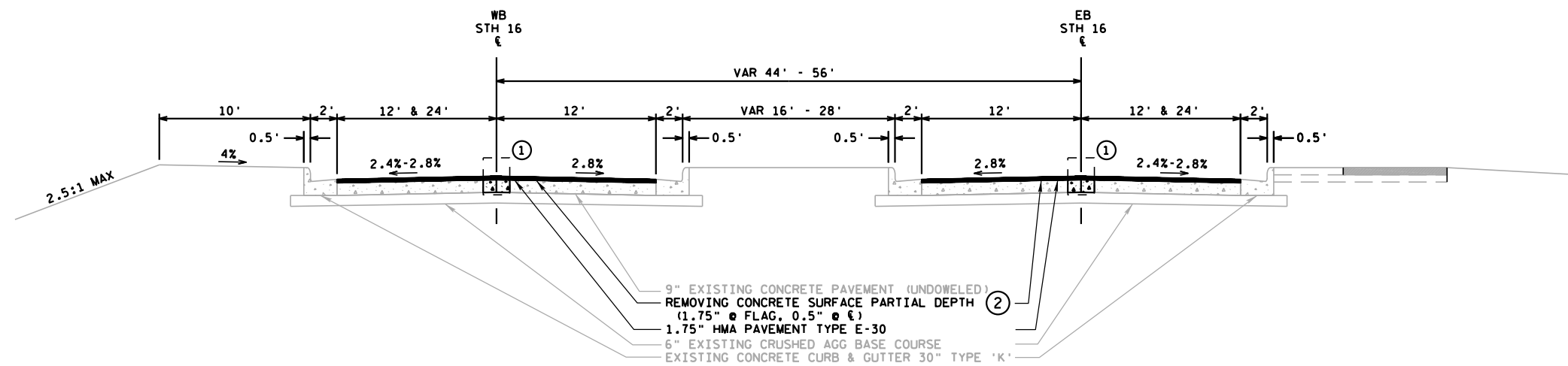
GENERAL NOTES

- ADD TYPE III BARRICADES, LIGHTS, CONES AND DRUMS FOR T.C. AT THE ENGINEER'S REQUEST.
- ALL SAWCUT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
- ALL CLOSED LANES MUST BE SWEEPED PRIOR TO BEING OPENED TO TRAFFIC.
- PAVEMENT REMOVAL SHALL BE TO THE NEAREST JOINT OR A SAWED EDGE WILL BE REQUIRED AS DIRECTED BY THE ENGINEER.
- THE RATE OF APPLICATION OF TACK COAT IS COMPUTED AT 0.025 GAL/SY
- ASPHALT WEIGHT CALCULATIONS ARE BASED ON 110 LB/SY/IN.
- THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGER'S HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGER'S HOTLINE.
- THERE ARE ISLAND NOSES IN THE FIELD THAT ARE INCORRECTLY MARKED. DO NOT REMARK THESE ISLAND NOSES. MARK ONLY THOSE SHOWN IN THE PLAN.
- TRAFFIC SIGNAL LOOP DETECTORS OUTSIDE THE INTERSECTIONS SHOULD BE AVOIDED WHEN POSSIBLE. LOOPS AT THE INTERSECTIONS WILL NO LONGER BE USED.





**EXISTING TYPICAL SECTION**



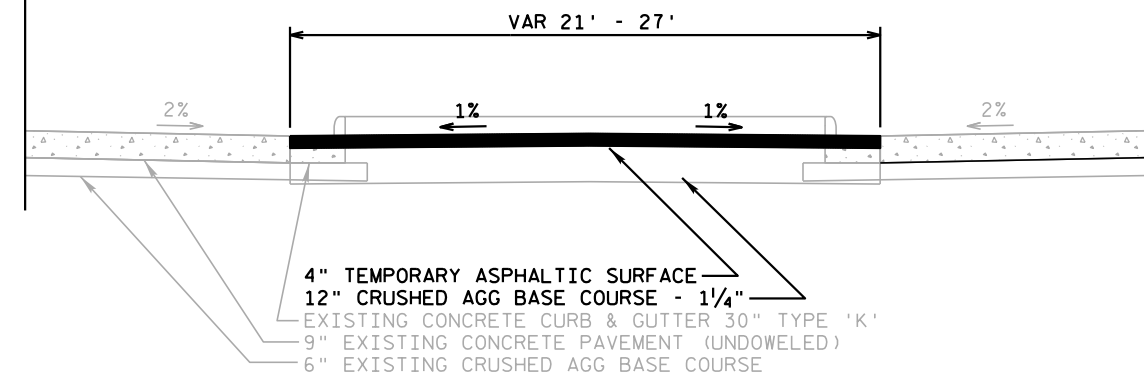
**PROPOSED TYPICAL SECTION**

① ALL LONGITUDINAL JOINTS (EXCEPT THOSE ADJACENT TO CURB & GUTTER) SHALL BE REPAIRED FULL-DEPTH UNDER THE SPECIAL REPAIR OF LONGITUDINAL JOINTS ITEM SEE CONSTRUCTION DETAIL

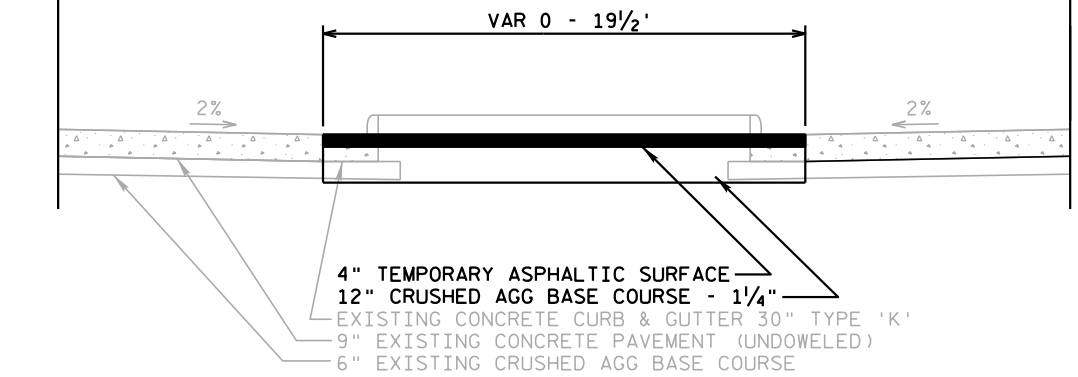
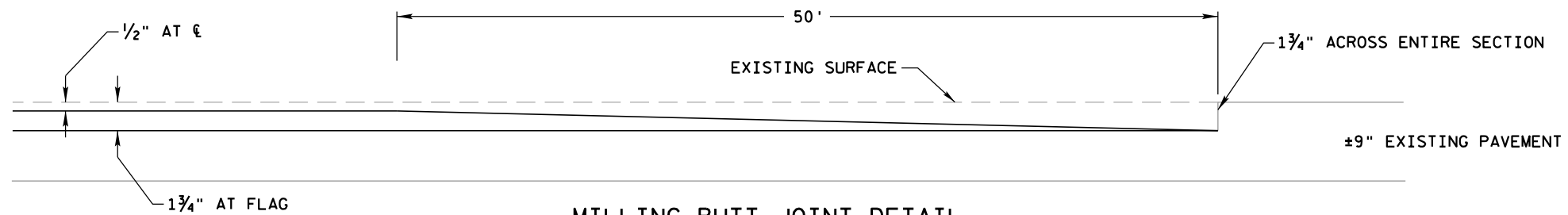
② MILL 1.75" AT FLAG AND TAPER MILL DEPTH TO 0.5" AT CENTERLINE OF DRIVING (THROUGH) LANES - REGARDLESS OF PAVEMENT WIDTH - IN NORMAL CROWN SECTIONS  
MILL 1.75" ACROSS ENTIRE SECTION IN SUPERELEVATED SECTIONS  
MILL 1.75" IN INTERSECTIONS BETWEEN DRIVING (THROUGH) LANES



2

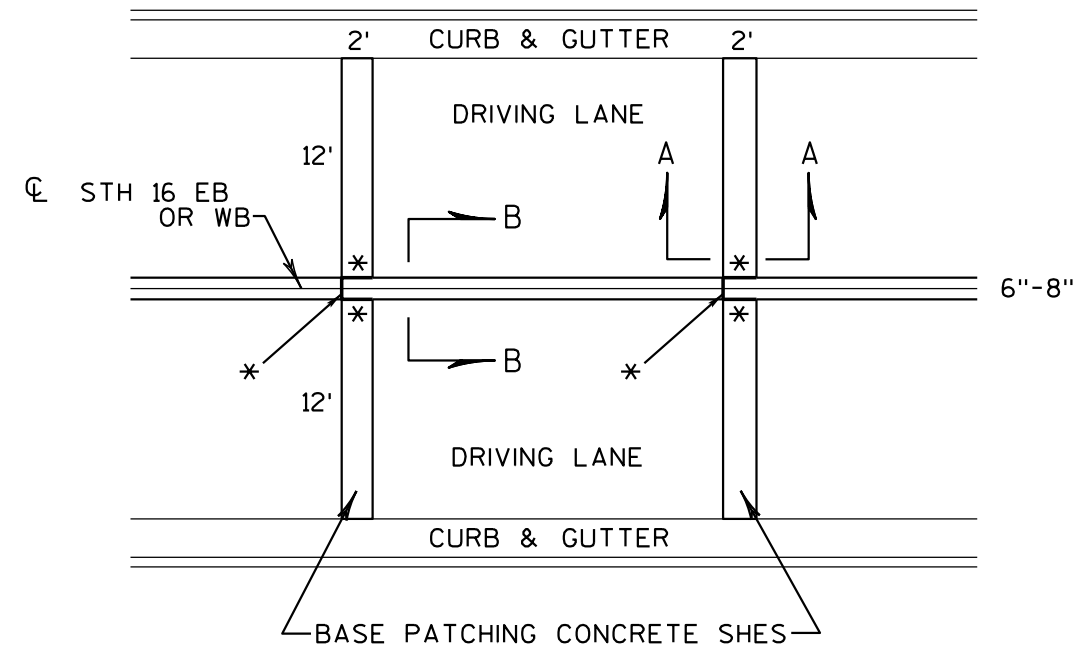
WB  
STH 16EB  
STH 16**PROPOSED TYPICAL SECTION**WEST CROSSOVER  
STA 273+59-276+06 (EB)

2

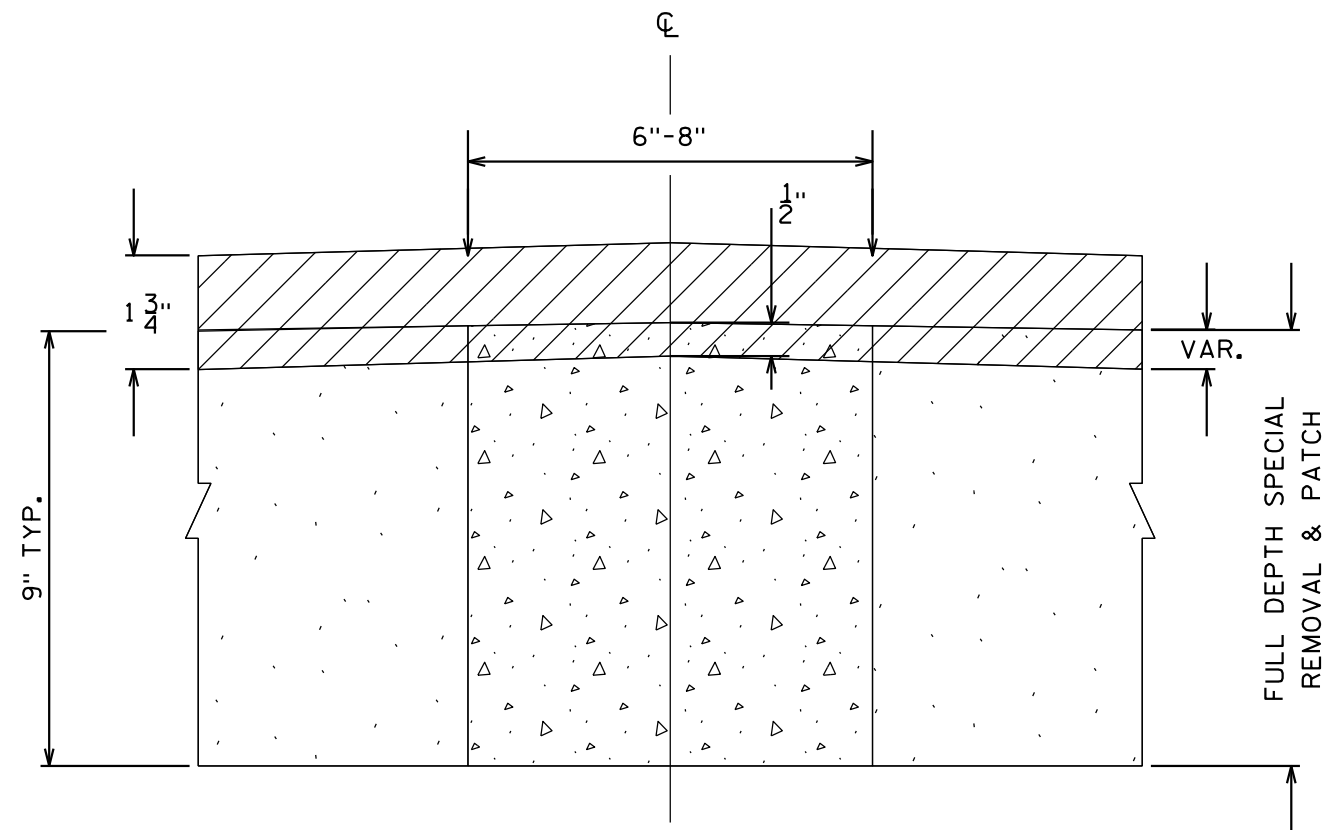
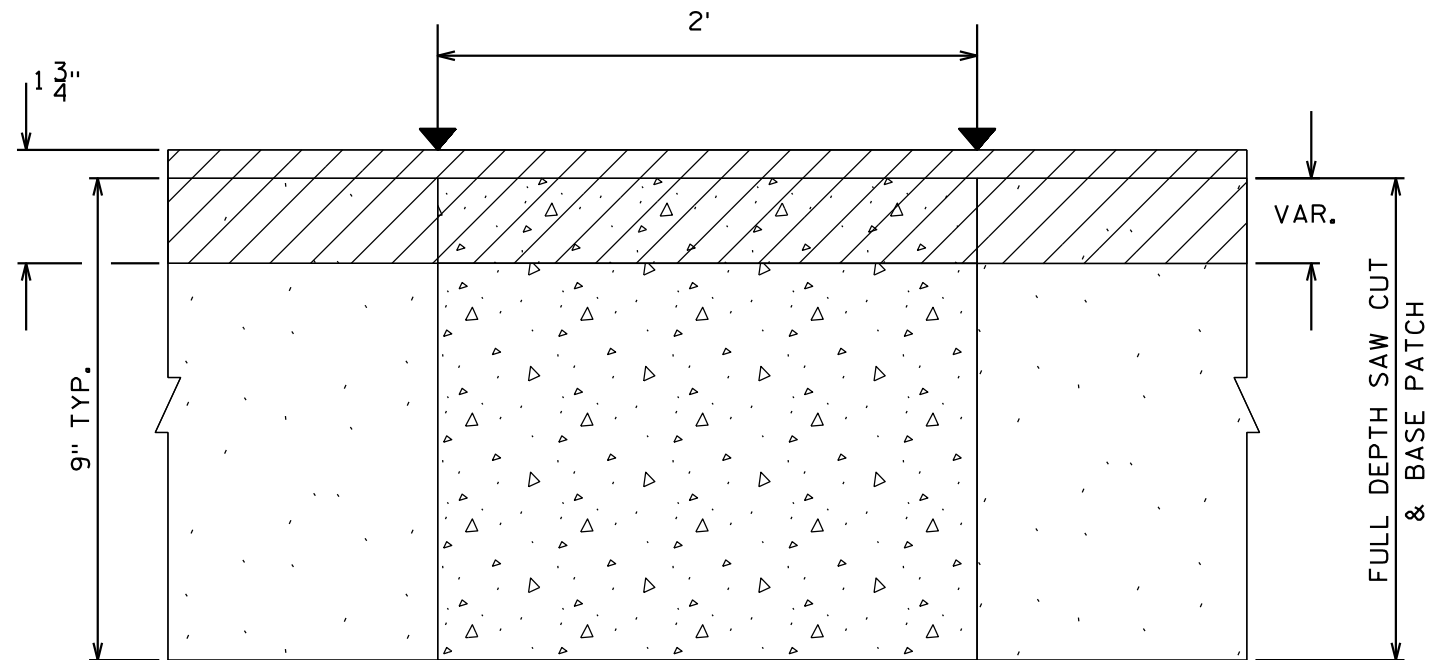
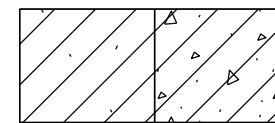
WB  
STH 16EB  
STH 16**PROPOSED TYPICAL SECTION**EAST CROSSOVER  
STA 305+29-306+21 (EB)**MILLING BUTT JOINT DETAIL**

STA 270+49.9 WB, STA 270+49.7 EB, STA 315+27.9 WB, STA 315+84.7 EB

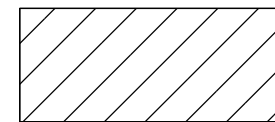




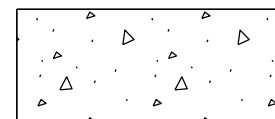
PLAN VIEW

SECTION B-B  
(LONGITUDINAL JOINT)  
NO SAWCUT REQUIREDSECTION A-A  
(TRANSVERSE JOINT)

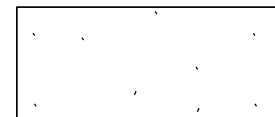
REMOVING CONCRETE SURFACE PARTIAL DEPTH  
(1.75" AT FLAG, 0.5" AT CL) AND REPLACE WITH  
HMA PAVEMENT TYPE E-30



HMA PAVEMENT TYPE E-30



BASE PATCHING CONCRETE SHES  
OR  
SPECIAL LONGITUDINAL JOINT REPAIR



EXISTING PCC PAVEMENT TO REMAIN

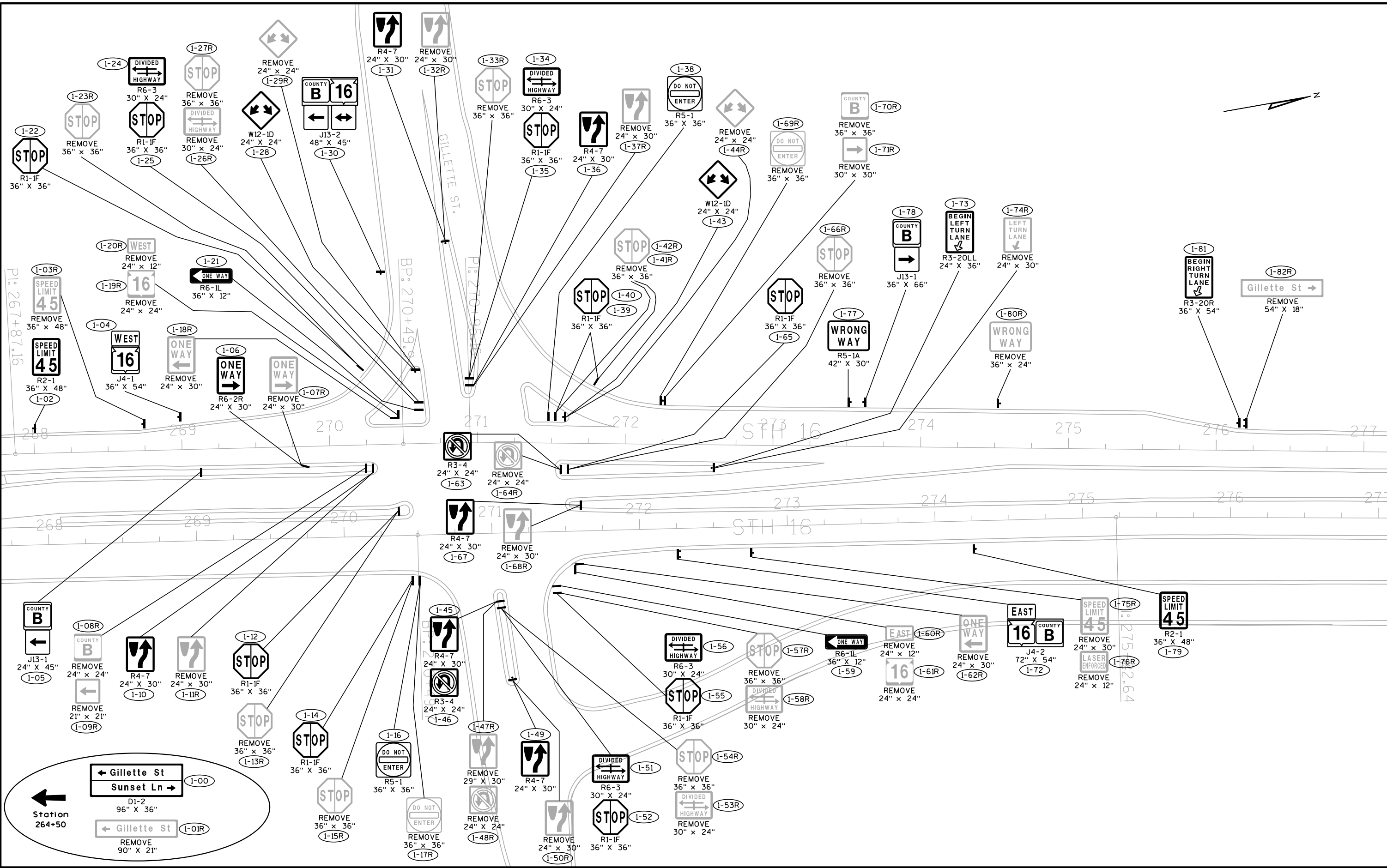


FULL DEPTH SAW CUT REQUIRED



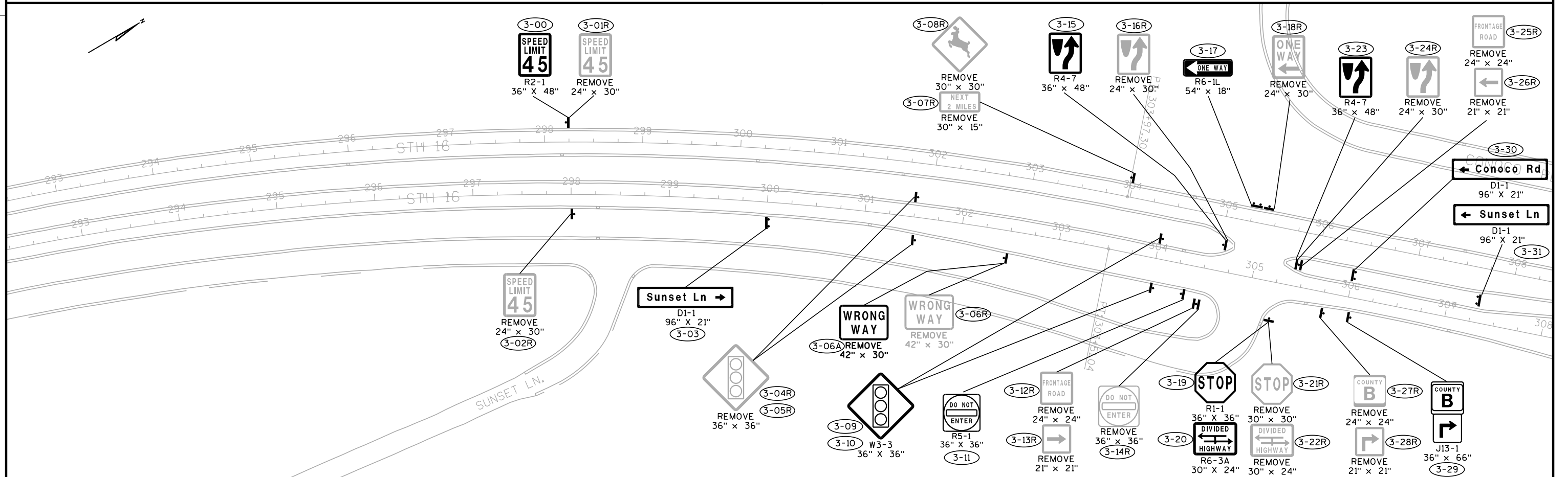
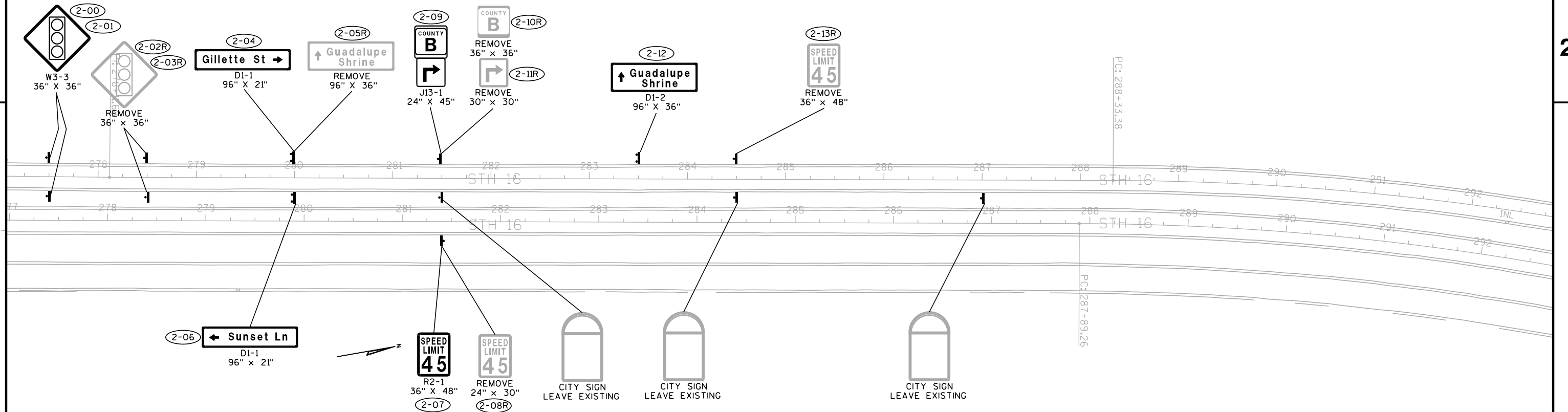
HAND-TOOLED JOINT - 3-INCH DEPTH



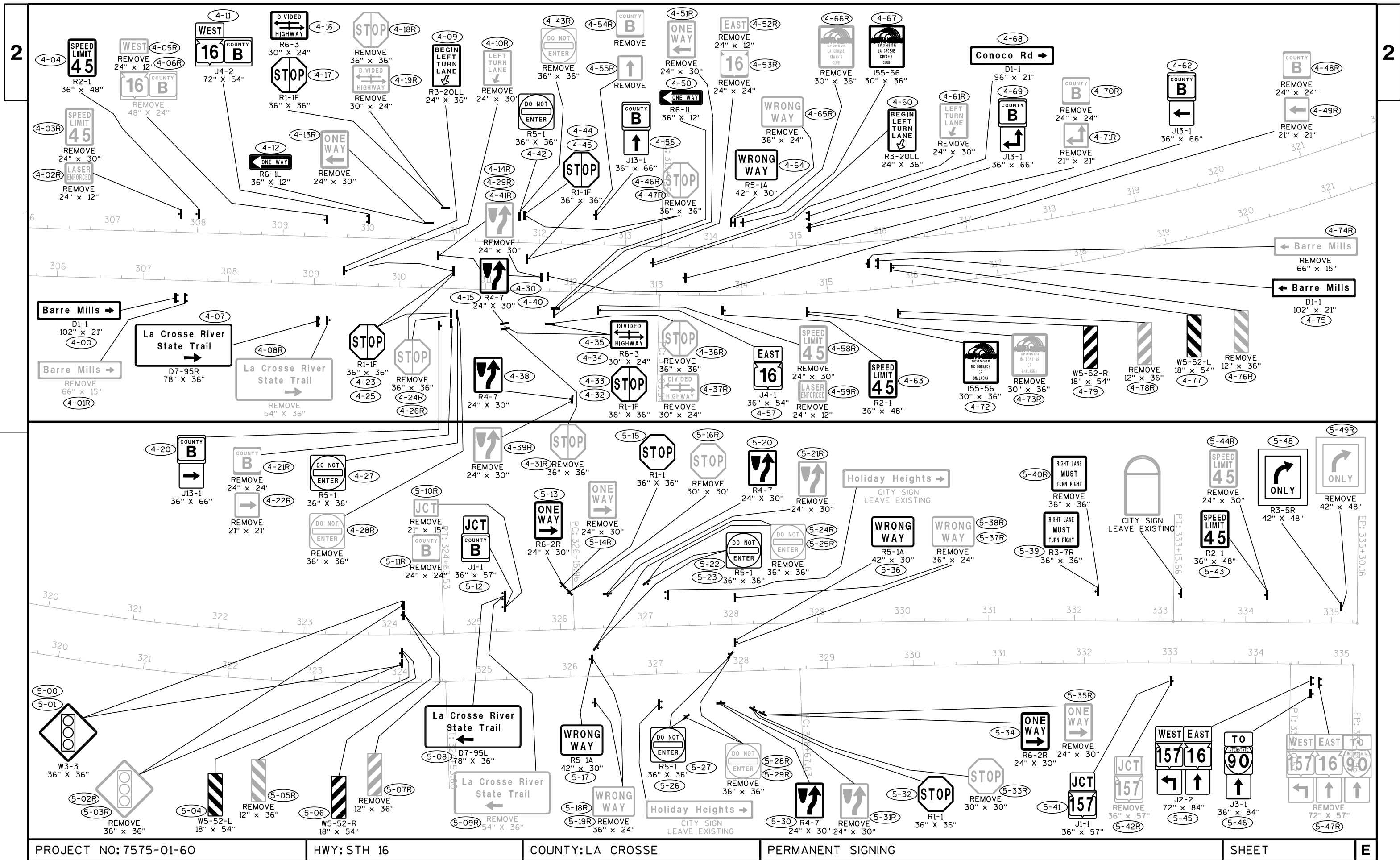


PROJECT NO: 7575-01-60	HWY: STH 16	COUNTY: LA CROSSE	PERMANENT SIGNING	SHEET	E
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PROJECT NO: 7575-01-60

HWY: STH 16

COUNTY: LA CROSSE

PERMANENT SIGNING

SHEET

E

FILE NAME : P:\State\s16\75750130\Cad\ep1ans\023205-ps.dgn

PLOT DATE : 26-MAR-2013 13:27

PLOT BY : dot+3r

PLOT NAME :

PLOT SCALE : 100:1

WISDOT/CADDs SHEET 42

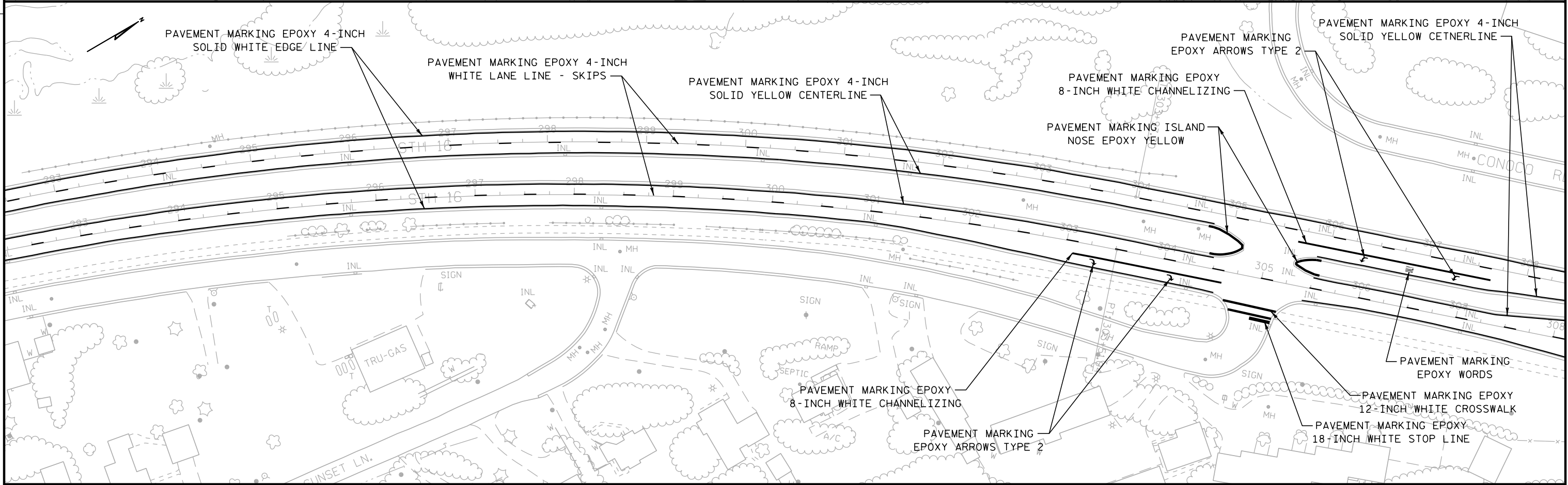
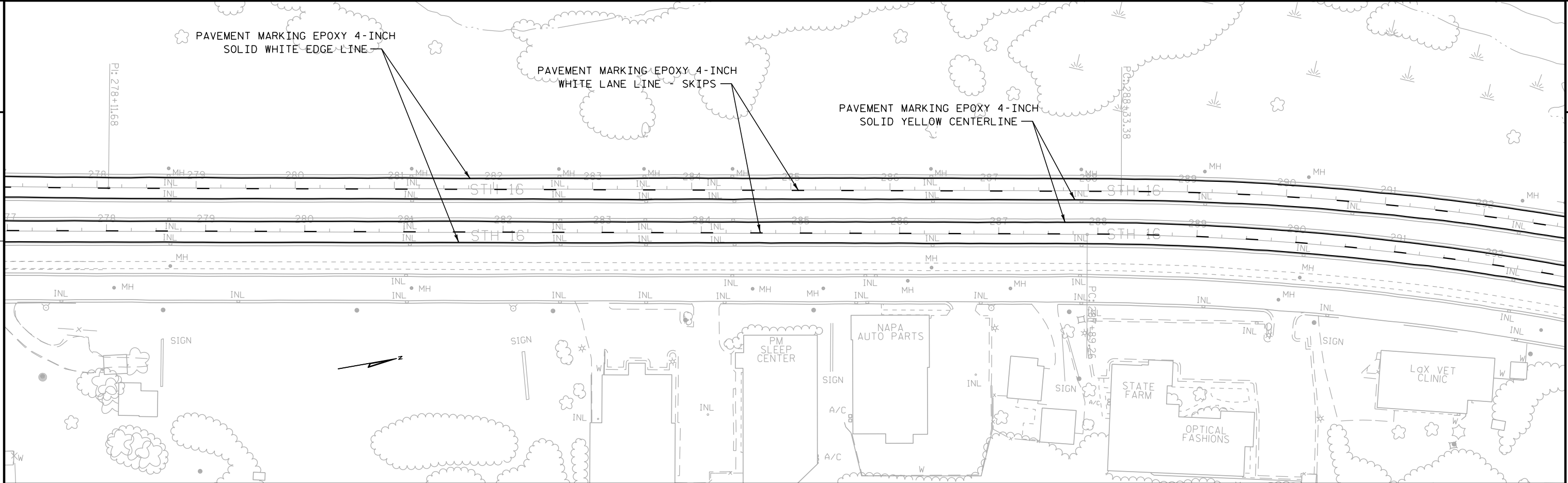






2

2

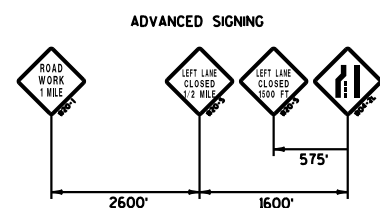


PROJECT NO: 7575-01-60	HWY: STH 16	COUNTY: LA CROSSE	PAVEMENT MARKING	SHEET	<b>E</b>
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SEE STAGE 1 DETAIL FOR GILLETTE ST.  
TRAFFIC CONTROL LAYOUT

ADVANCE SIGNING SHALL BE INSTALLED  
PRIOR TO CROSSOVER CONSTRUCTION



SEE STAGE 1 DETAIL FOR TAPER  
TRAFFIC CONTROL LAYOUT

### LEGEND

- |                 |                       |
|-----------------|-----------------------|
| ⊢ SIGN          | ⬇ BARRICADE TYPE III  |
| • DRUM          | ← TRAFFIC DIRECTION   |
| ⚡ DRUM W/ LIGHT | ┆ PORTABLE CHANGEABLE |
| ⊙ CONE          | ┆ MESSAGE SIGN        |



LEFT  
TURN  
LANE  
↓  
R3-55L  
24" X 30"

The diagram shows two configurations of Type III Barricades. The left configuration consists of two rows of three barricades each, with a label 'TYPE III BARRICADE' below. The right configuration shows a similar setup but with a 'LANE CLOSED' sign mounted on the top row of barricades. Above the sign, the text 'R11-2 (MOD.) 48" X 30"' is displayed. The background includes a road with lane markings and a 'Mile' marker.

SEE STAGE 1 DETAIL FOR FRONTAGE RD.  
TRAFFIC CONTROL LAYOUT

—MEDIAN ISLAND TO BE REMOVED FOR CROSSOVER  
AND REPLACED UPON COMPLETION OF JOINT REPAIRS

FLASHING ARROW BOARD -

MEDIAN ISLAND TO BE REMOVED FOR CROSSOVER  
— AND REPLACED UPON COMPLETION OF JOINT REPAIRS



R3-2



R3-2  
24" X 24"



PROJECT NO: 7575-01-60

HWY:STH 16

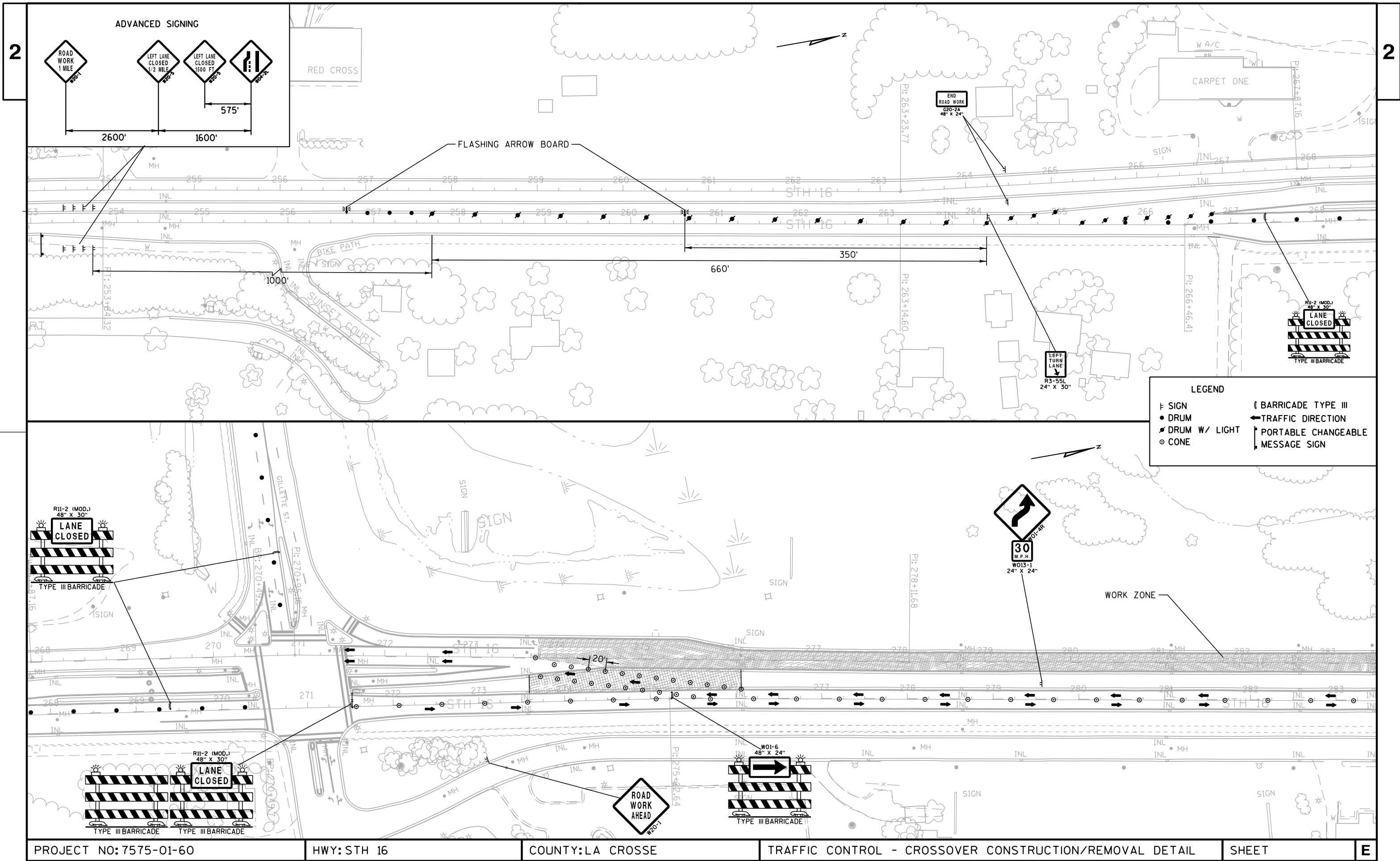
COUNTY:LA CROSSE

TRAFFIC CONTROL - CROSSOVER CONSTRUCTION/REMOVAL DETAIL

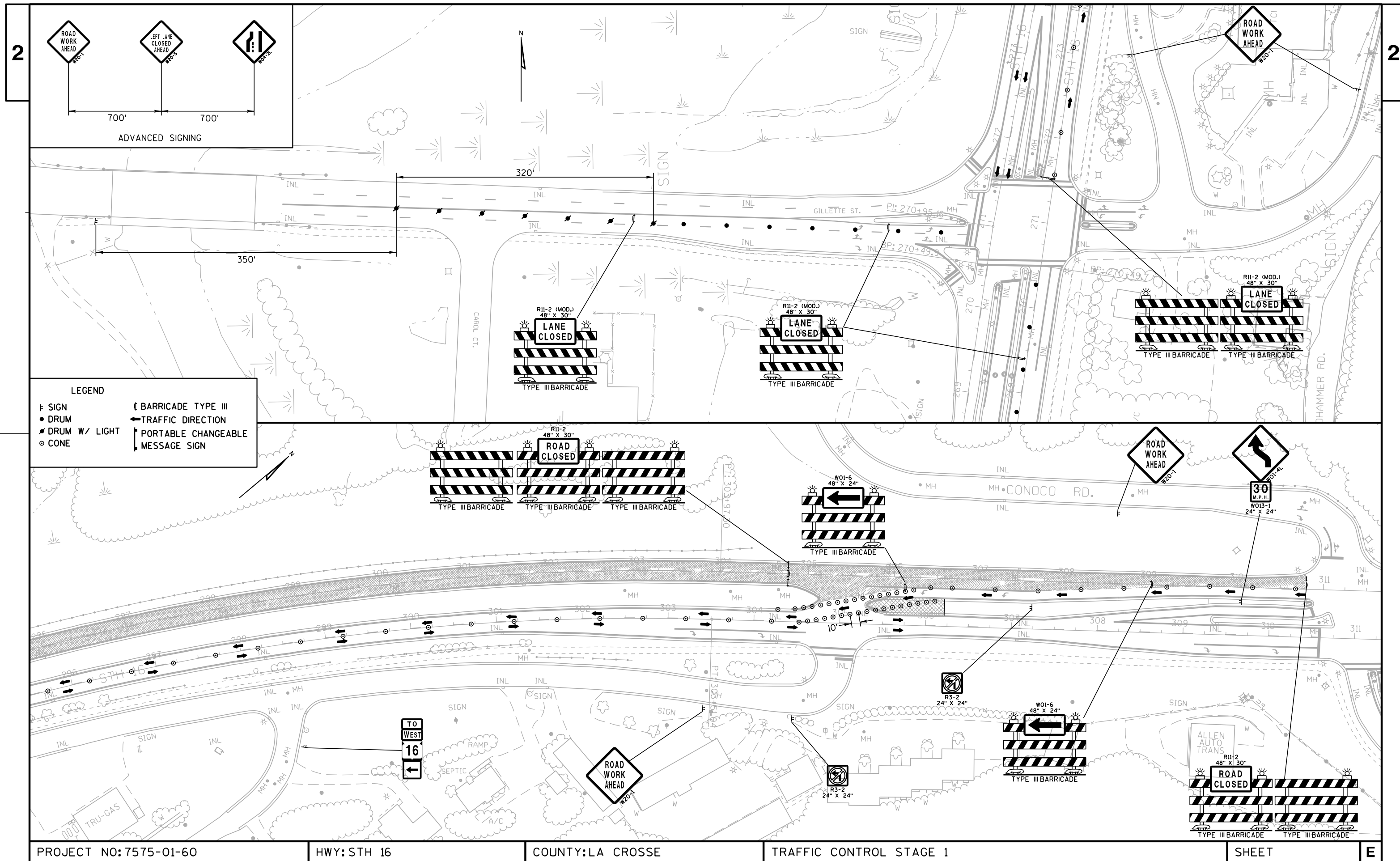
SHEET

E

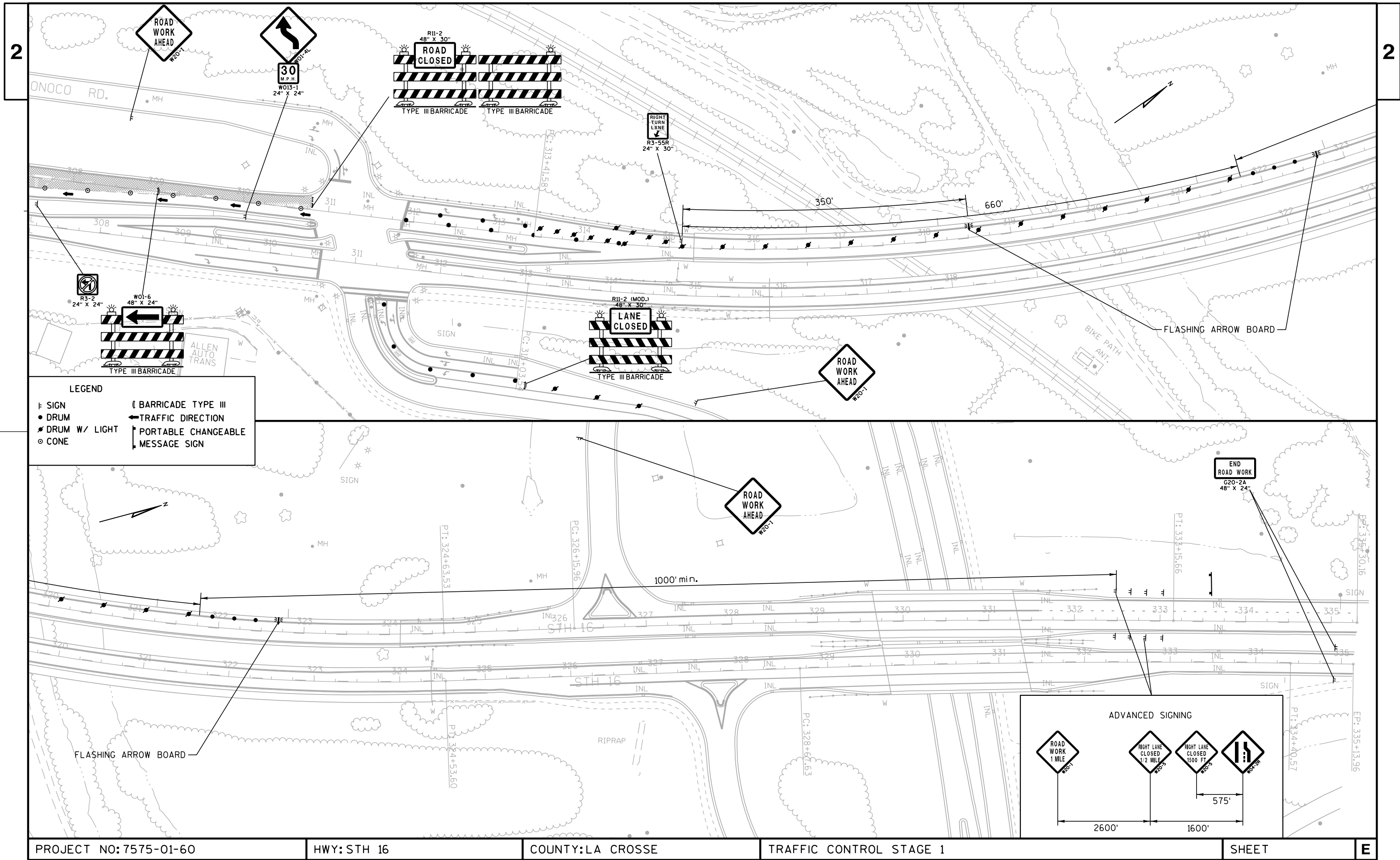












PROJECT NO: 7575-01-60

HWY: STH 16

COUNTY: LA CROSSE

TRAFFIC CONTROL STAGE 1

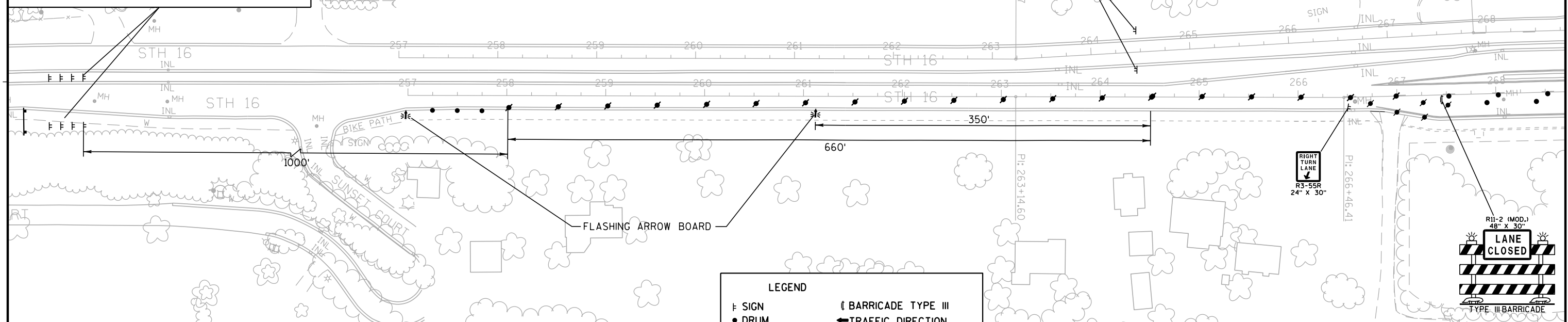
SHEET

E



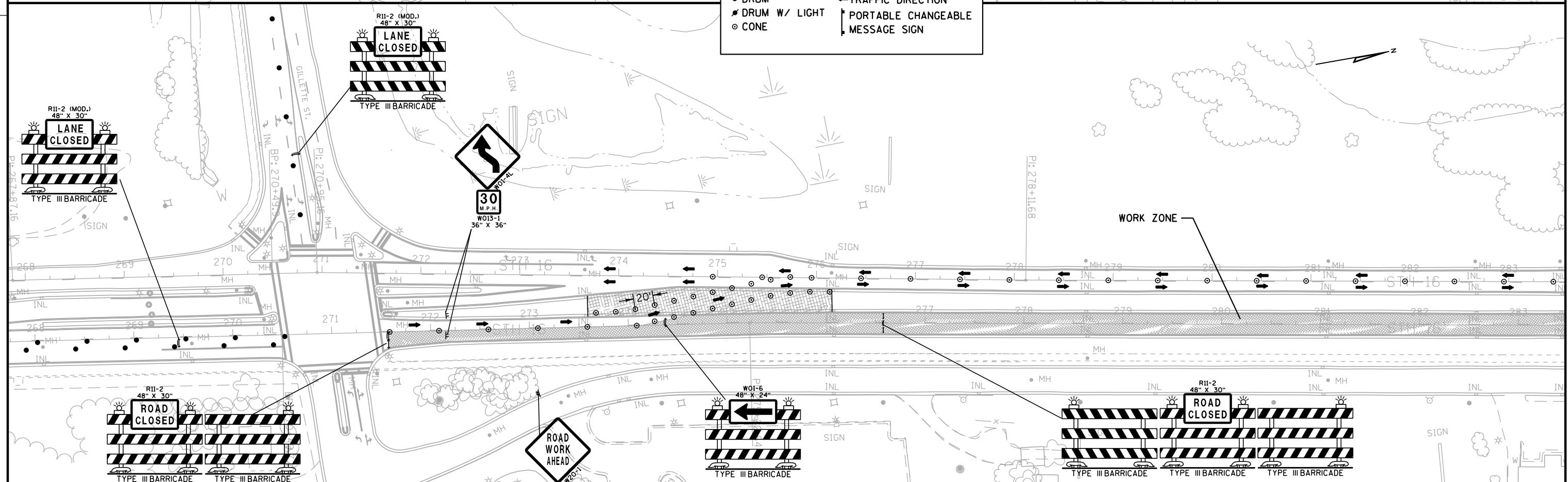


## ADVANCED SIGNING



### LEGEND

- |                 |                       |
|-----------------|-----------------------|
| ⊢ SIGN          | ⌄ BARRICADE TYPE III  |
| ● DRUM          | ← TRAFFIC DIRECTION   |
| ⊘ DRUM W/ LIGHT | ⌄ PORTABLE CHANGEABLE |
| ⊙ CONE          | ⌄ MESSAGE SIGN        |



PROJECT NO: 7575-01-60

HWY:STH 16

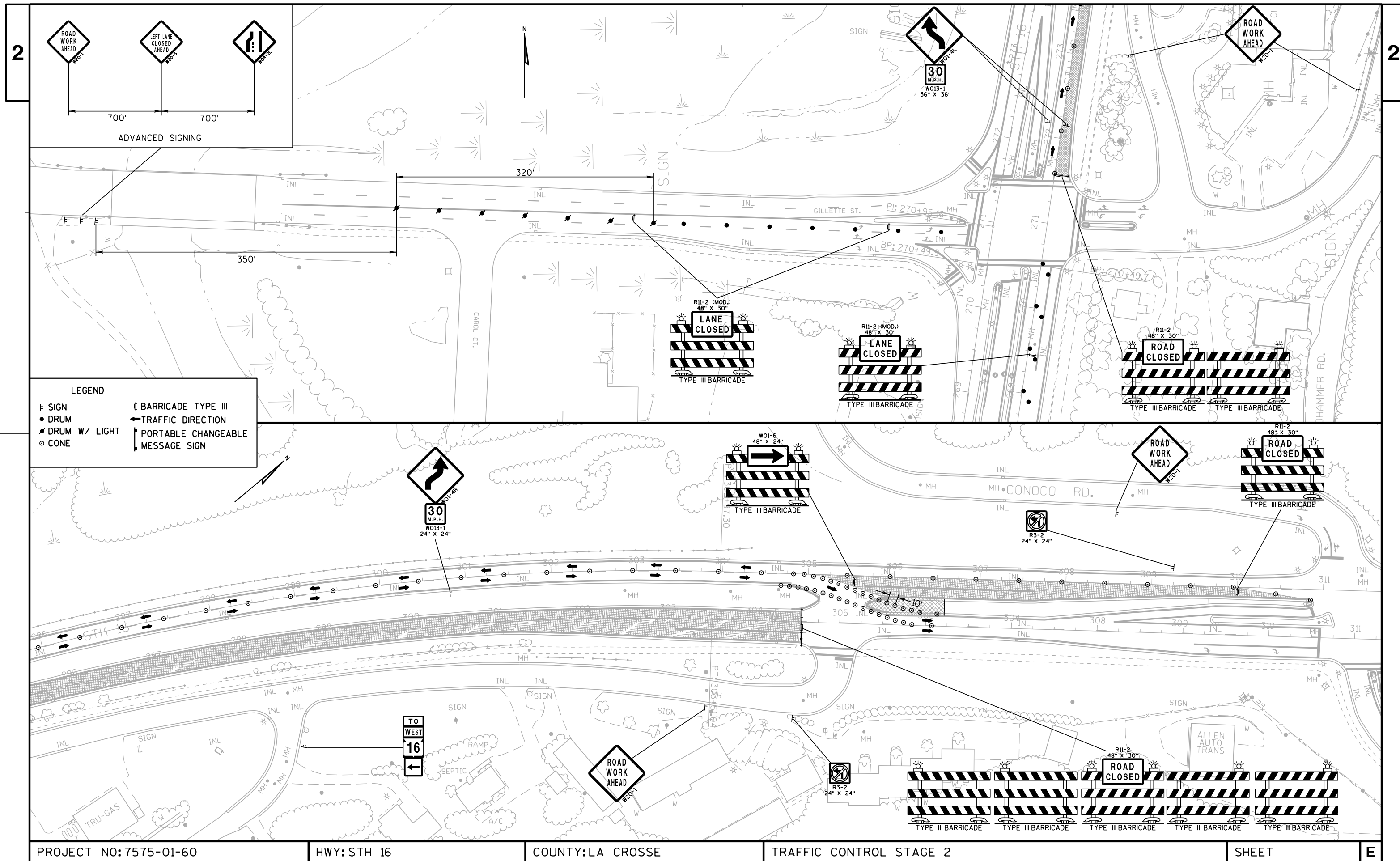
COUNTY:LA CROSSE

TRAFFIC CONTROL STAGE 2

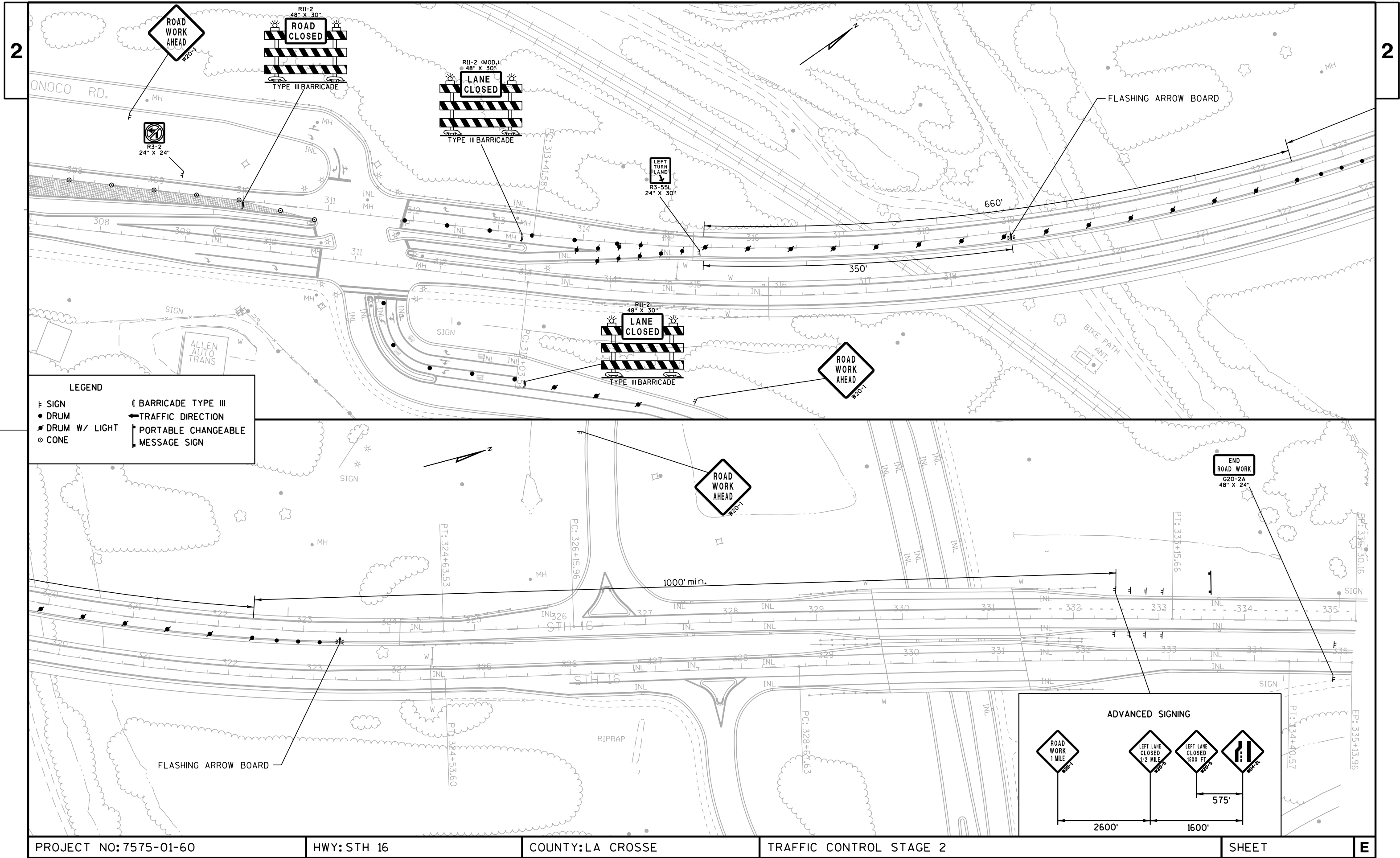
SHEET

E

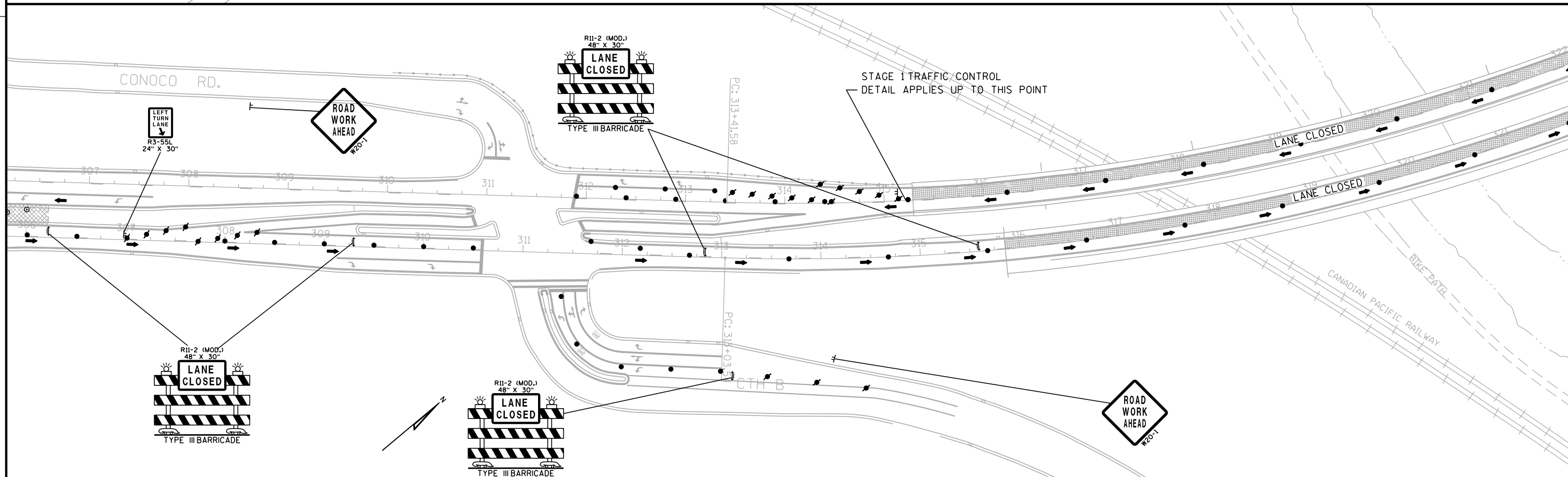
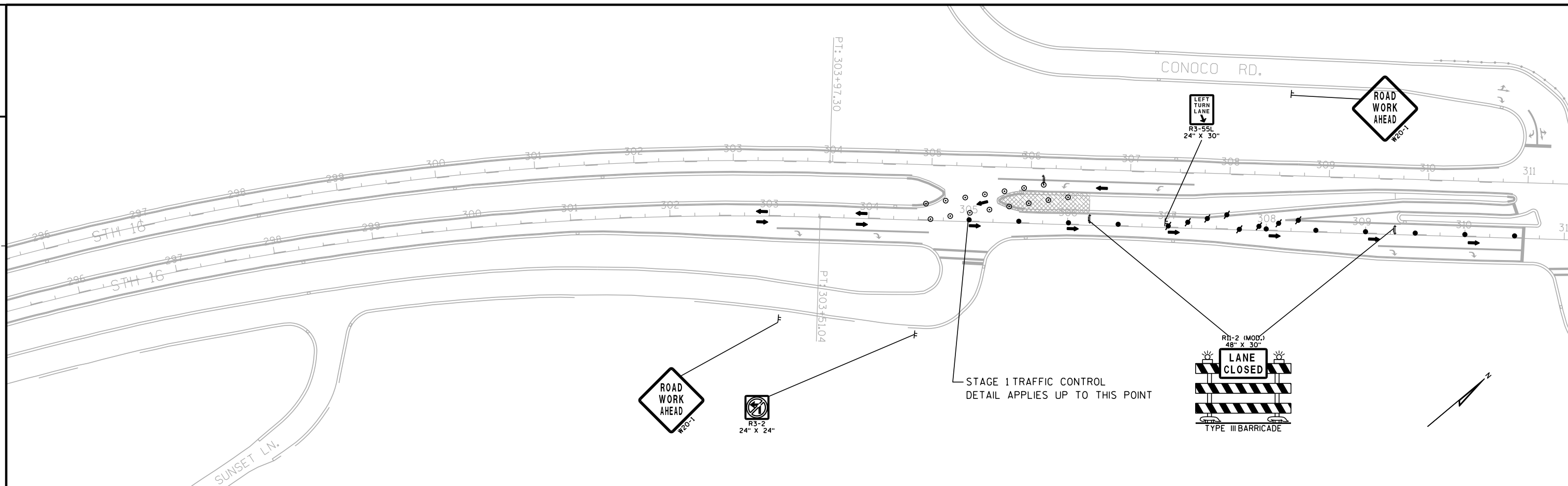




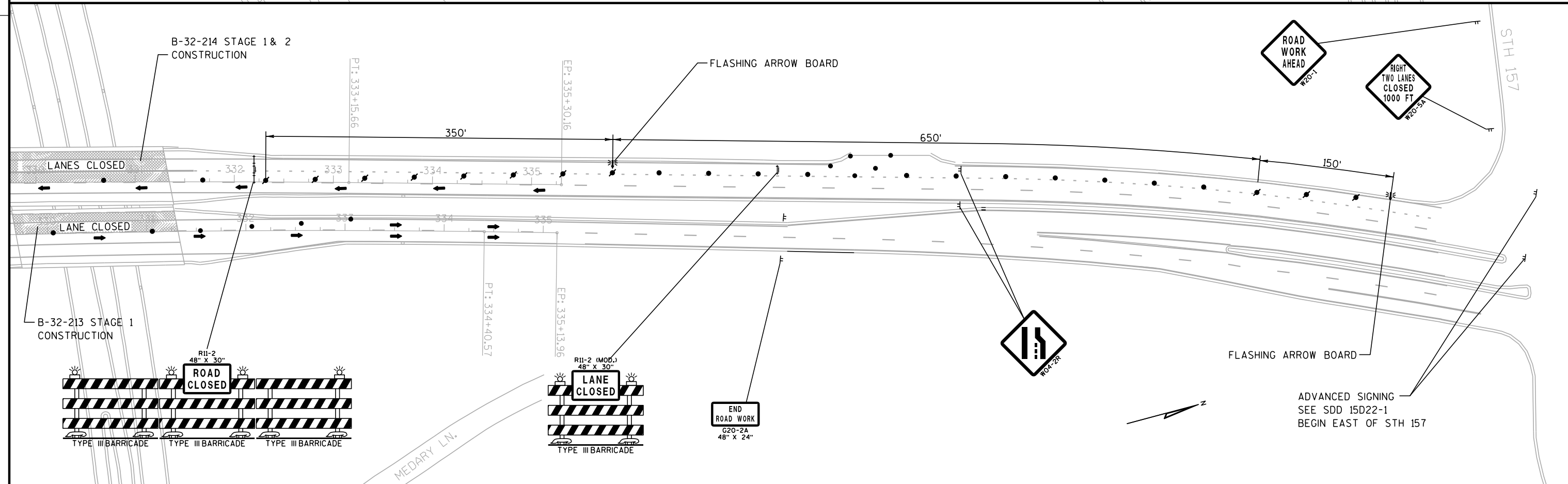
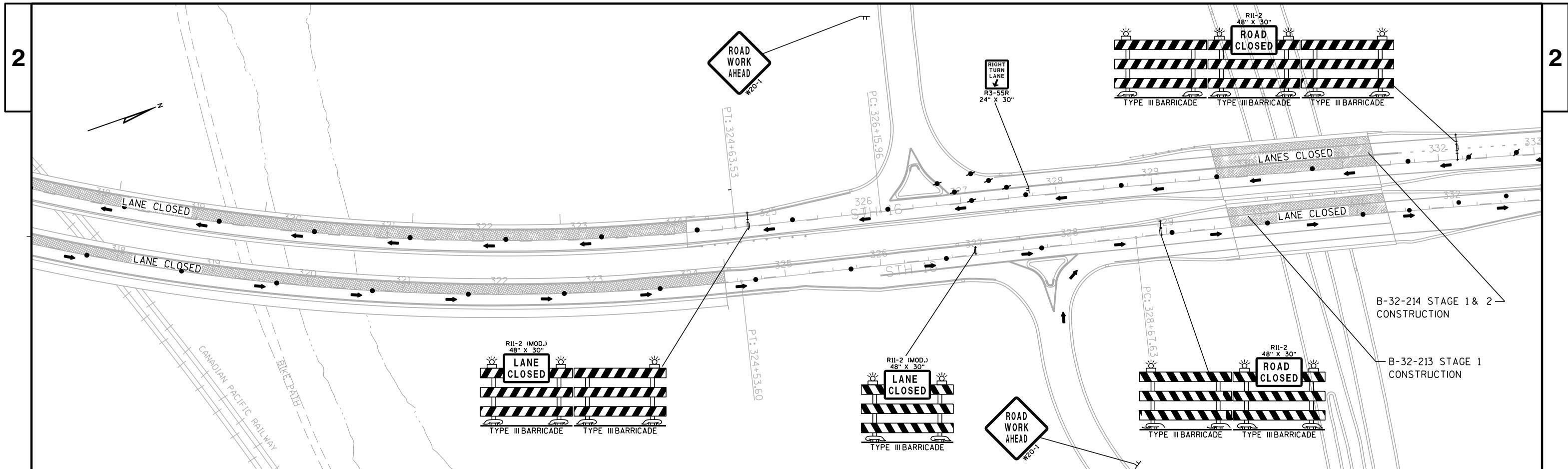




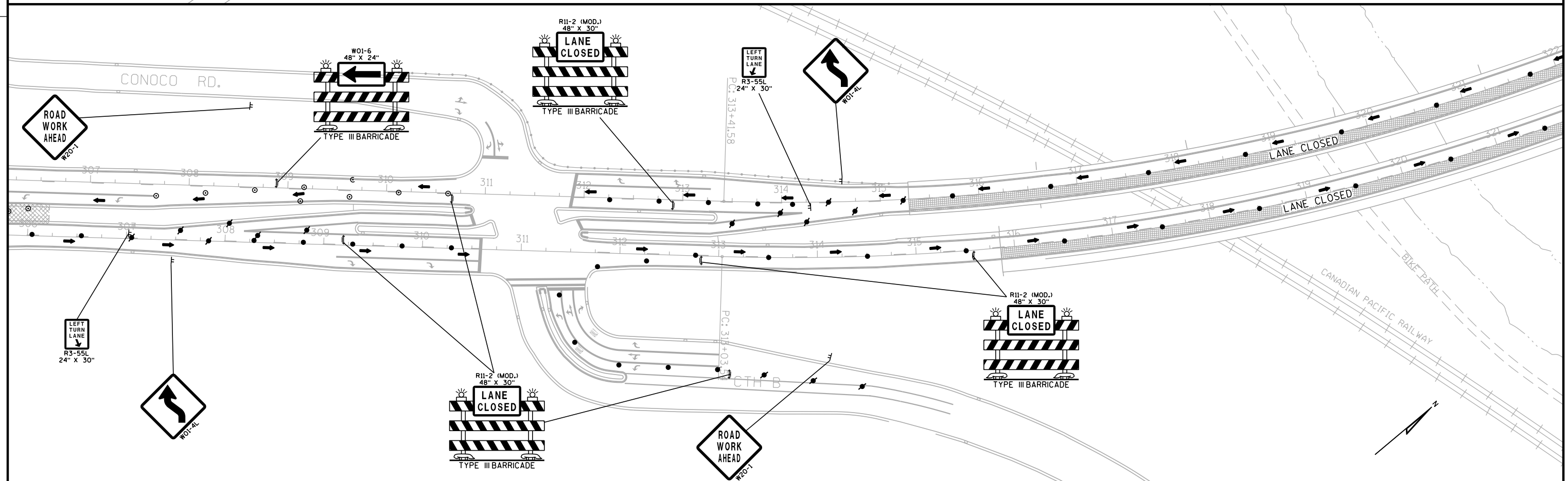
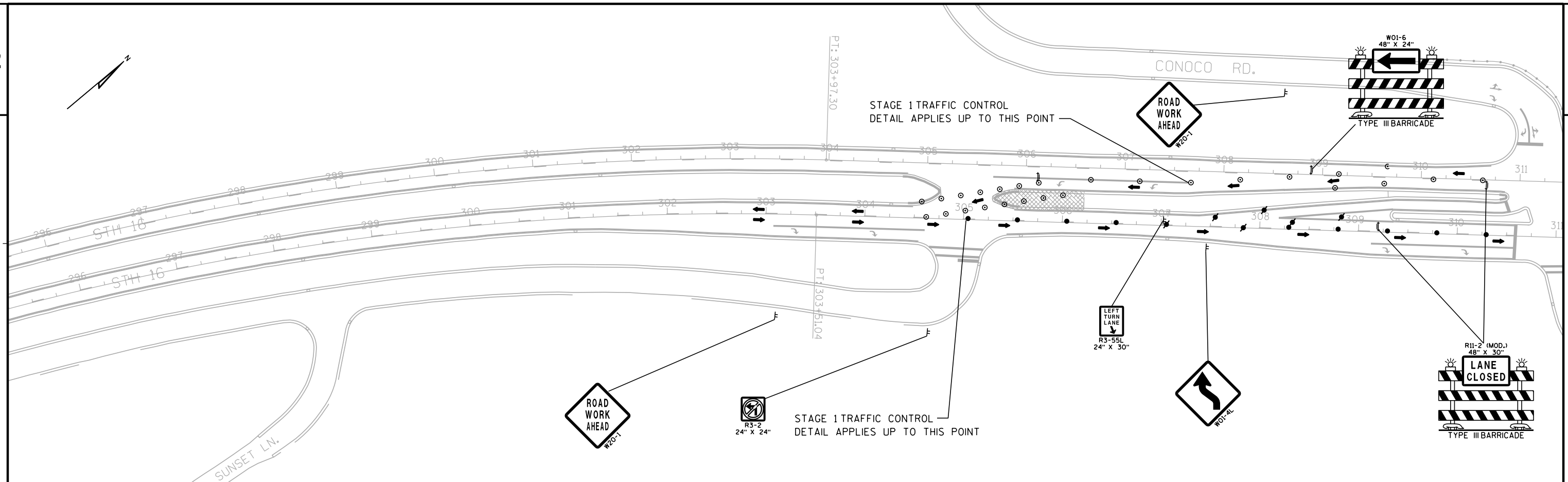




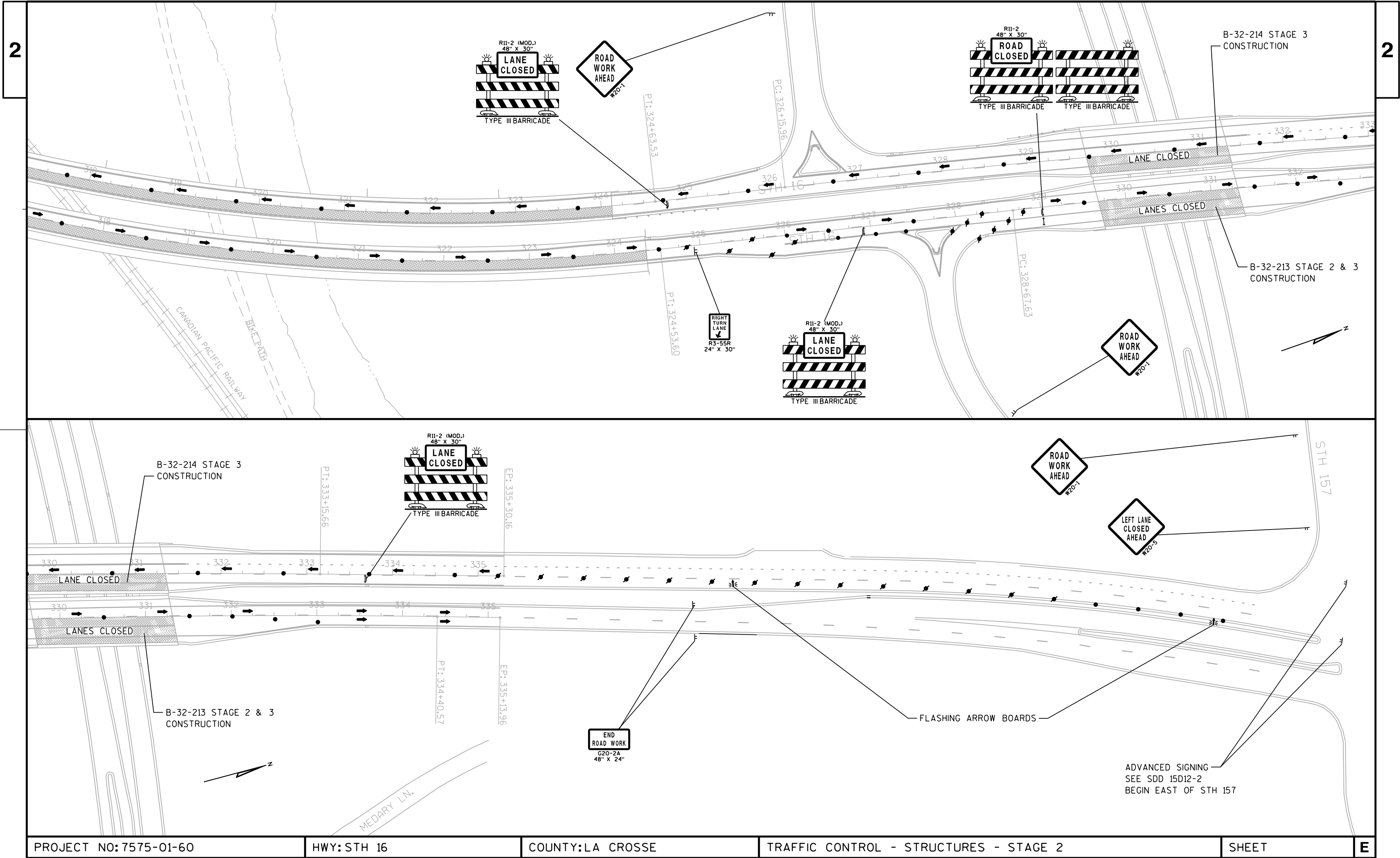














DATE 04APR13		E S T I M A T E O F Q U A N T I T I E S			
LINE				7575-01-60	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	204.0105	REMOVING PAVEMENT BUTT JOINTS	SY	824.000	824.000
0020	204.0109.S	REMOVING CONCRETE SURFACE PARTIAL DEPTH	SF	263,088.000	263,088.000
0030	204.0150	REMOVING CURB & GUTTER	LF	720.000	720.000
0040	205.0100	EXCAVATION COMMON	CY	567.000	567.000
0050	213.0100	FINISHING ROADWAY (PROJECT) 01. 7575-01-60	EACH	1.000	1.000
0060	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	585.000	585.000
0070	390.0403	BASE PATCHING CONCRETE SHES	SY	2,784.000	2,784.000
0080	416.1725	CONCRETE PAVEMENT REPLACEMENT SHES	SY	813.000	813.000
0090	455.0115	ASPHALTIC MATERIAL PG64-22	TON	166.000	166.000
0100	455.0605	TACK COAT	GAL	743.000	743.000
0110	460.1130	HMA PAVEMENT TYPE E-30	TON	2,779.000	2,779.000
0120	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	1,884.000	1,884.000
0130	465.0125	ASPHALTIC SURFACE TEMPORARY	TON	193.000	193.000
0140	506.0105	STRUCTURAL STEEL CARBON	LB	2,020.000	2,020.000
0150	509.5100.S	POLYMER OVERLAY	SY	2,052.000	2,052.000
0160	517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 01. B-32-111	LS	1.000	1.000
0170	611.8110	ADJUSTING MANHOLE COVERS	EACH	5.000	5.000
0180	611.8115	ADJUSTING INLET COVERS	EACH	4.000	4.000
0190	611.8120.S	COVER PLATES TEMPORARY	EACH	2.000	2.000
0200	611.9710	SALVAGED INLET COVERS	EACH	2.000	2.000
0210	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 7575-01-60	EACH	1.000	1.000
0220	619.1000	MOBILIZATION	EACH	1.000	1.000
0230	625.0105	TOPSOIL	CY	189.000	189.000
0240	628.2008	EROSION MAT URBAN CLASS I TYPE B	SY	678.000	678.000
0250	628.7015	INLET PROTECTION TYPE C	EACH	86.000	86.000
0260	629.0210	FERTILIZER TYPE B	CWT	1.000	1.000
0270	630.0130	SEEDING MIXTURE NO. 30	LB	13.000	13.000
0280	634.0612	POSTS WOOD 4X6-INCH X 12-FT	EACH	6.000	6.000
0290	634.0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	45.000	45.000
0300	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	29.000	29.000
0310	634.0618	POSTS WOOD 4X6-INCH X 18-FT	EACH	10.000	10.000
0320	634.0805	POSTS TUBULAR STEEL 2X2-INCH X 5-FT	EACH	2.000	2.000
0330	634.0810	POSTS TUBULAR STEEL 2X2-INCH X 10-FT	EACH	1.000	1.000
0340	637.0202	SIGNS REFLECTIVE TYPE II	SF	1,066.640	1,066.640
0350	637.0402	SIGNS REFLECTIVE FOLDING TYPE II	SF	126.820	126.820
0360	638.2602	REMOVING SIGNS TYPE II	EACH	138.000	138.000
0370	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	72.000	72.000
0380	642.5001	FIELD OFFICE TYPE B	EACH	1.000	1.000
0390	643.0200	TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE (PROJECT) 01. 7575-01-60	DAY	70.000	70.000
0400	643.0300	TRAFFIC CONTROL DRUMS	DAY	5,736.000	5,736.000
0410	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	942.000	942.000
0420	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	1,607.000	1,607.000
0430	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	3,132.000	3,132.000
0440	643.0800	TRAFFIC CONTROL ARROW BOARDS	DAY	216.000	216.000
0450	643.0900	TRAFFIC CONTROL SIGNS	DAY	2,543.000	2,543.000
0460	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	128.000	128.000
0470	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	28,473.000	28,473.000
0480	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	2,919.000	2,919.000
0490	646.0600	REMOVING PAVEMENT MARKINGS	LF	809.000	809.000
0500	647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	20.000	20.000



DATE 04APR13			E S T I M A T E O F Q U A N T I T I E S		
LINE					7575-01-60
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0510	647.0176	PAVEMENT MARKING ARROWS EPOXY TYPE 3	EACH	6.000	6.000
0520	647.0356	PAVEMENT MARKING WORDS EPOXY	EACH	5.000	5.000
0530	647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	421.000	421.000
0540	647.0606	PAVEMENT MARKING ISLAND NOSE EPOXY	EACH	11.000	11.000
0550	647.0776	PAVEMENT MARKING CROSSWALK EPOXY 12-INCH	LF	993.000	993.000
0560	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	3,478.000	3,478.000
0570	650.8000	CONSTRUCTION STAKING RESURFACING REFERENCE	LF	13,044.000	13,044.000
0580	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 7575-01-60	LS	1.000	1.000
0590	690.0250	SAWING CONCRETE	LF	28,172.000	28,172.000
0600	SPV.0045	SPECIAL 01. TRAFFIC CONTROL CONES	DAY	5,924.000	5,924.000
0610	SPV.0090	SPECIAL 01. LONGITUDINAL JOINT REPAIR	LF	8,592.000	8,592.000
0620	SPV.0090	SPECIAL 02. CONCRETE CURB & GUTTER HES 30-INCH TYPE D	LF	720.000	720.000
0630	SPV.0105	SPECIAL 01. STRUCTURE SPOT CLEANING AND PAINTING, B-32-115	LS	1.000	1.000
0640	SPV.0165	SPECIAL 01. FAST SET DECK PATCHING	SF	246.000	246.000



REMOVING CONCRETE SURFACE PARTIAL DEPTH

CATEGORY	STATION TO	STATION	LOCATION	204. 0109. S SF	REMARKS
0010	270+49. 9	- 315+28	WB	107472	MAINLINE DRIVING LANES
0010	270+49. 7	- 315+85	EB	108840	MAINLINE DRIVING LANES
0010				3597	GILLETTE INT. (BETWEEN 16 DRIVING LANES)
0010	270+53	- 272+18	EB RT	1351	RT TL TO SUNSET LN (EB 3RD LANE)
0010	271+57	- 274+60	WB RT	2906	LT TL TO SUNSET
0010	271+36	- 276+15	WB LT	5301	RT TL TO GILLETTE
0010	301+04	- 305+87	EB RT	4854	RT TL TO SUNSET LN E.
0010	304+80	- 309+60	WB RT	5466	LT TL TO SUNSET LN E.
0010	306+97	- 312+41	EB RT	7710	RT TL TO CTH B
0010	307+38	- 310+69	EB LT	3660	LT TL TO CONOCO
0010	310+17	- 315+29	WB LT	5941	RT TL TO CONOCO
0010				2334	CTH B INT. (BETWEEN 16 DRIVING LANES)
0010	307+38	- 310+69	WB LT	3656	LT TL TO CTH B
TOTAL 0010				263088	

REMOVING PAVEMENT BUTT JOINTS

CATEGORY	STATION TO	STATION	LOCATION	204. 0105 SY	REMARKS
0010	270+49. 7	- 270+99. 7	EB	545	INCLUDES WESTBOUND LANES
0010	314+77. 9	- 315+27. 9	WB	145	
0010	315+34. 7	- 315+84. 7	EB	134	
TOTAL 0010				824	

CROSSOVER CONSTRUCTION

CATEGORY	STATION TO	STATION	LOCATION	REMOVING C&G 204. 0150 LF	COMMON EXC. 205. 0100 CY	BASE AGG. 1 1/4- INCH 305. 0120 TON	TOPSOIL 625. 0105 CY	EROSION MAT CLASS 1 URBAN TYPE B 628. 2008 SY	FERTILIZER TYPE B 629. 0210 CWT	SEED NO. 30 630. 0130 LB	CONC C&G HES 30-IN TYPE D SPV. 0090. 02 LF	REMARKS
CROSSOVER CONSTRUCTION												
0010	273+69	- 276+16	WB RT	248								
0010	273+59	- 276+06	EB LT	248	369	458						CROSSOVER AT GILLETTE
0010	305+67	- 306+59	WB RT	92								
0010	305+29	- 306+21	EB LT	92	99	127						CROSSOVER AT FRONTAGE ROAD
CROSSOVER REMOVAL												
0010	273+56	- 273+66	WB 21. 5' RT	10							10	
0010	273+46	- 273+56	EB 12' LT	10							10	
0010	276+19	- 276+29	WB 12' RT	10							10	
0010	276+09	- 276+19	EB 12' LT	10							10	
0010	273+69	- 276+16	WB RT								248	
0010	273+59	- 276+06	EB LT		77		150	540	0. 3	10	248	CROSSOVER AT GILLETTE
0010	305+67	- 306+59	WB RT								92	
0010	305+29	- 306+21	EB LT		22		39	138	0. 1	3	92	CROSSOVER AT FRONTAGE RD
0010	305+29	- 306+21	EB 22' - 12' LT									CROSSOVER AT FRONTAGE ROAD
TOTAL 0010				720	567	585	189	678	1	13	720	



JOINT REPAIR ITEMS

CATEGORY	STATION TO	STATION	LOCATION	BASE	CONC	LONGITUDINAL	REMARKS
				PATCHING	PAVEMENT	JOINT	
				CONC SHES	REPLACEMENT	REPAIR	
				390. 0403	416. 1725	SPV. 0090. 01	
				SY	SY	LF	
0010	GILLETTE ST INTERSECTION				133		5 SLABS
0010	270+49. 9	- 315+27. 9	WB	1440			6482LF TRANSVERSE JOINTS
0010	270+49. 7	- 315+84. 7	EB	1344			6050LF TRANSVERSE JOINTS
0010	270+49. 7	- 304+42	EB CL			3392	
0010	270+49. 9	- 304+80	WB CL			3430	
0010	270+49. 7		EB 12' RT			168	RT TL TO SUNSET LN
0010	SUNSET LN		EB RT			257	TRANSVERSE JOINTS ON SUNSET
0010	270+63	- 271+38	WB 12' LT			75	GILLETTE INT. ISLAND-TO-ISLAND
0010	270+49. 7	- 271+53	EB 12' LT			103	ISLAND NOSE-TO-ISLAND NOSE
0010	270+55	- 271+57	WB 12' RT			102	ISLAND NOSE-TO-ISLAND NOSE
0010	271+62	- 276+15	WB 12' LT			453	RT TL TO GILLETTE
0010	272+62	- 274+62	WB 12' RT			200	LT TL TO SUNSET LN
0010	277+05	- 277+65	WB LT		80		3 SLABS
0010	283+34	- 283+74	WB LT		53		2 SLABS
0010	286+36	- 286+56	WB LT/RT		53		2 SLABS
0010	288+90	- 290+10	EB RT		27		1 SLAB
0010	296+05	- 296+65	EB RT		80		3 SLABS
0010	296+85	- 297+25	EB RT		53		2 SLABS
0010	297+70	- 298+02	EB RT		40		1 FULL SLAB, 1 SHORT SLAB
0010	300+98	- 301+18	EB RT		27		1 SLAB
0010	301+32	- 304+42	EB 12' RT			412	RT TL TO SUNSET LN E.
					267		UNDISTRIBUTED
TOTAL 0010				2784	813	8592	

HMA PAVEMENT ITEMS

CATEGORY	STATION TO	STATION	LOCATION	ASPHALTIC		HMA	ASPHALTIC	REMARKS
				MATERIAL	TACK	PAVEMENT	SURFACE	
				PG64- 22	COAT	TYPE E- 30	TEMPORARY	
				455. 0115	455. 0605	460. 1130	465. 0125	
				TON	GAL	TON	TON	
0010	270+55	- 315+29	WB	69	299	1149		MAINLINE DRIVING LANES
0010	270+47	- 315+86	EB	70	302	1164		MAINLINE DRIVING LANES
0010				2	10	38		GILLETTE INT. (BETWEEN DRIVING LANES)
0010	270+53	- 272+18	EB RT	1	4	14		RT TL TO SUNSET LN (EB 3RD LANE)
0010	271+57	- 274+60	WB RT	2	8	34		LT TL TO SUNSET
0010	271+36	- 276+15	WB LT	3	15	57		RT TL TO GILLETTE
0010	273+59	- 276+06	EB LT		17		151	CROSSOVER
0010	301+04	- 305+87	EB RT	3	13	52		RT TL TO SUNSET LN E.
0010	304+80	- 309+60	WB RT	4	15	58		LT TL TO SUNSET LN E.
0010	305+29	- 306+21	EB LT		5		42	
0010	306+97	- 312+41	EB RT	3	12	46		RT TL TO CTH B
0010	307+38	- 310+69	EB LT	2	10	39		LT TL TO CONOCO
0010	310+17	- 315+29	WB LT	4	17	64		RT TL TO CONOCO
0010				1	6	25		CTH B INT. (BETWEEN DRIVING LANES)
0010	307+38	- 310+69	WB LT	2	10	39		LT TL TO CTH B
TOTAL 0010				166	743	2779	193	



INLET PROTECTION TYPE C

628. 7015					628. 7015				
CATEGORY	STATION	LOCATION		EACH	REMARKS	CATEGORY	STATION	LOCATION	
0010		GILLETTE ST		5		0010	270+72	EB	39. 4' RT
0010	270+12	WB	33. 6' LT	1		0010	271+36	EB	40. 5' RT
0010	270+65	WB	44. 3' LT	1		0010	273+57	EB	12' LT, 12' RT
0010	271+30	WB	31. 7' LT	1		0010	276+08	EB	12' LT, 12' RT
0010	271+66	WB	37' RT	1		0010	278+64	EB	12' LT, 12' RT
0010	272+56	WB	12' RT	1		0010	281+07	EB	12' LT, 12' RT
0010	273+66	WB	12' LT	1		0010	282+58	EB	12' LT, 12' RT
0010	273+67	WB	20. 8' RT	1		0010	283+44	EB	12' LT, 12' RT
0010	276+16	WB	12' LT, 12' RT	2		0010	284+33	EB	12' LT, 12' RT
0010	278+73	WB	12' LT, 12' RT	2		0010	286+33	EB	12' RT
0010	281+18	WB	12' LT, 12' RT	2		0010	287+84	EB	12' RT
0010	282+67	WB	12' LT, 12' RT	2		0010	290+09	EB	12' RT
0010	283+53	WB	12' LT, 12' RT	2		0010	292+23	EB	12' RT
0010	284+42	WB	12' LT, 12' RT	2		0010	295+74	EB	12' RT
0010	286+43	WB	12' LT, 12' RT	2		0010	298+27	EB	12' RT
0010	287+93	WB	12' RT	1		0010	301+06	EB	13' RT
0010	289+18	WB	12' RT	1		0010	304+26	EB	12' LT, 24' RT
0010	290+68	WB	12' RT	1		0010	305+17	EB	43. 6' RT
0010	292+38	WB	12' RT	1		0010	305+58	EB	13. 6' RT
0010	294+17	WB	12' RT	1		0010	307+07	EB	12' LT, 12' RT
0010	296+00	WB	12' RT	1		0010	309+39	EB	12' LT
0010	298+18	WB	12' RT	1		0010			CTH B
0010	300+18	WB	12' RT	1		0010	313+50	EB	12' LT
0010	301+68	WB	12' RT	1		0010	314+70	EB	12' LT
0010	304+65	WB	12' LT	1		0010	315+80	EB	12' LT
0010	305+92	WB	12' LT	1		0010	328+34	EB	12' LT, 24' RT
0010	307+45	WB	12' LT	1					
0010		CONOCO RD		1					
0010	311+54	WB	32. 1' LT	1					
0010	312+56	WB	12' RT	1					
0010	313+21	WB	24' LT	1					
0010	313+83	WB	26. 2' RT	1					
0010	315+00	WB	14. 4' LT, 13. 4' RT	2					
0010	328+45	WB	24' LT, 12' RT	2					

SUBTOTAL 47

SUBTOTAL 39  
TOTAL 0010 86

MANHOLES & INLETS

ADJUSTING MANHOLE COVERS 611. 8110	ADJUSTING INLET COVERS 611. 8115	COVER PLATES TEMPORARY 611. 8120. S	SALVAGED INLET COVERS 611. 9710
EACH	EACH	EACH	EACH

SAWING CONCRETE

690. 0250			
CATEGORY	LOCATION	LF	REMARKS
0010	WESTBOUND	13932	
0010	EASTBOUND	13020	
0010		820	LONGITUDINAL CUTS FOR SLAB REPLACEMENT
0010		400	UNDISTRIBUTED SLAB REPLACEMENT
TOTAL 0010		28172	

CATEGORY	STATION	LOCATION		EACH				REMARKS
0010	271+36	WB	5. 5' LT	1				MH #1
0010	273+66	WB	5. 9' LT	1				MH #2
0010	273+67	WB	20. 8' RT		1			
0010	273+57	EB	12' LT		1			
0010	276+15	WB	5. 1' LT	1				MH #3
0010	276+17	WB	12' RT		1			
0010	276+08	EB	12' LT		1			
0010	305+71	WB	29' RT			1	1	
0010	305+33	EB	17. 6' LT			1	1	
0010	311+44	WB	17. 7' LT	1				MH #4
0010	313+21	WB	17. 2' LT	1				MH #5
TOTAL 0010				5	4	2	2	

NOTE: FOUR TRANSVERSE CUTS FOR EACH SLAB TO BE REPLACED ARE ACCOUNTED FOR IN THE WESTBOUND AND EASTBOUND QUANTITIES.



PERMANENT SIGNING																			
SHEET 1 OF 5																			
SIGN NUMBER	APPROX. STATION	POSITION	SITE ID	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIGN SIZE IN X IN	637.0202 SIGN REFLECTIVE	637.0402 SIGN REFLECTIVE	634.0612	634.0614	634.0616	634.0618	634.0805	634.0810	638.2602 REMOVING	638.3000 REMOVING	SIGN MOUNTED ON SAME POST AS	REMARKS
								POSTS WOOD 4X6-INCH				2X2 STEEL TUBULAR		SIGN TYPE II	SMALL SIGN SUPPORTS				
								12 FT EACH	14 FT EACH	16 FT EACH	18 FT EACH	5 FT EACH	10 FT EACH						
1-00	264+50	Right		D1-2	Two Destinations (Arrows)	[Left Arrow] GILLETTE ST SUNSET LN [Right Arrow]	96 X 36	24.00	---	---	---	2	---	---	---	---	---		
1-01R	264+50	Right		D1-1	Destination (Arrow)	[Left Arrow] GILLETTE ST	90 X 21	---	---	---	---	---	---	---	---	1	1		
1-02	268+00	Left		R2-1	Speed Limit _MPH	45	36 X 48	12.00	---	---	1	---	---	---	---	---	---		
1-03R	268+75	Left		R2-1	Speed Limit _MPH	45	36 X 48	---	---	---	---	---	---	---	---	1	1		
1-04	269+00	Left		J4-1	Reassurance Assembly	WEST	36 X 54	13.50	---	---	---	1	---	---	---	---	---		
1-05	269+10	Median		J13-1	Route Turn Assembly	16 B [Left Arrow]	24 X 45	7.50	---	---	---	---	---	---	---	---	---		Light Pole
1-06	269+80	Median		R6-2R	One Way RIGHT Arrow		24 X 30	5.00	---	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-07R	269+80	Median		R6-2R	One Way RIGHT Arrow		24 X 30	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-08R	270+25	Median		M1-5A	County Marker	B	24 X 24	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-09R	270+25	Median		M6-1	Arrow - RIGHT, LEFT, OR AHEAD	[Left Arrow]	21 X 21	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-10	270+30	Median		R4-7	Keep Right		24 X 30	5.00	---	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-11R	270+30	Median		R4-7	Keep Right		24 X 30	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-12	270+35	Median		R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-13R	270+35	Median		R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-14	270+45	Crossroad		R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-15R	270+45	Crossroad		R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-16	270+50	Crossroad		R5-1	Do Not Enter		36 X 36	9.00	---	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-17R	270+50	Crossroad		R5-1	Do Not Enter		36 X 36	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-18R	270+50	Island		R6-2L	One Way LEFT Arrow		24 X 30	---	---	---	---	---	---	---	---	1	---		Light Pole
1-19R	270+50	Island		M1-6	State Route Marker	16	24 X 24	---	---	---	---	---	---	---	---	1	---		Light Pole
1-20R	270+50	Island		M3-4	WEST Cardinal Route Marker		24 X 12	---	---	---	---	---	---	---	---	1	---		Light Pole
1-21	270+60	Crossroad		R6-1L	One Way LEFT Arrow		36 X 12	3.00	---	---	---	---	---	---	---	---	---		Light Pole
1-22	270+25	Left		R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-23R	270+25	Left		R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-24	270+60	Island		R6-3	Divided Highway Crossing Sign and Intersection		30 X 24	5.00	---	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-25	270+60	Island		R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-26R	270+60	Island		R6-3	Divided Highway Crossing Sign and Intersection		30 X 24	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-27R	270+60	Island		R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-28	270+60	Island		W12-1D	Double Down Arrows		24 X 24	4.00	---	---	---	---	---	1	---	---	---		
1-29R	270+60	Island		W12-1D	Double Down Arrows		24 X 24	---	---	---	---	---	---	---	---	1	1		
1-30	270+35	Left	Gillette St	J13-2	Directional Without Cardinal	B - 16 [Left Arrow] - [Left and Right Arrow]	48 X 45	15.00	---	---	---	1	---	---	---	---	---		
1-31	270+80	Median	Gillette St	R4-7	Keep Right		24 X 30	5.00	---	---	---	---	---	---	1	---	---		
1-32R	270+80	Median	Gillette St	R4-7	Keep Right		24 X 30	---	---	---	---	---	---	---	---	1	1		
1-33R	270+95	Median	Gillette St	R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-34	270+95	Median	Gillette St	R6-3	Divided Highway Crossing Sign and Intersection		30 X 24	5.00	---	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-35	270+95	Median	Gillette St	R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-36	270+95	Median	Gillette St	R4-7	Keep Right		24 X 30	5.00	---	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-37R	270+95	Median	Gillette St	R4-7	Keep Right		24 X 30	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-38	271+50	Left		R5-1	Do Not Enter		36 X 36	9.00	---	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-39	271+50	Island		R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-40	271+80	Left		R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-41R	271+50	Island		R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-42R	271+80	Left		R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-43	271+60	Island		W12-1D	Double Down Arrows		24 X 24	4.00	---	---	---	---	---	1	---	---	---		
1-44R	271+60	Island		W12-1D	Double Down Arrows		24 X 24	---	---	---	---	---	---	---	---	1	1		
1-45	271+05	Median	Gillette St	R4-7	Keep Right		24 X 30	5.00	---	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-46	271+05	Median	Gillette St	R3-4	No U Turn Symbol		24 X 24	4.00	---	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-47R	271+05	Median	Gillette St	R4-7	Keep Right		24 X 30	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-48R	271+05	Median	Gillette St	R3-4	No U Turn Symbol		24 X 24	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-49	271+10	Median	Gillette St	R4-7	Keep Right		24 X 30	5.00	---	---	1	---	---	---	---	---	---		
1-50R	271+10	Median	Gillette St	R4-7	Keep Right		24 X 30	---	---	---	---	---	---	---	---	1	1		
1-51	271+05	Median	Gillette St	R6-3	Divided Highway Crossing Sign and Intersection		30 X 24	5.00	---	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-52	271+05	Median	Gillette St	R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-53R	271+05	Median	Gillette St	R6-3	Divided Highway Crossing Sign and Intersection		30 X 24	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-54R	271+05	Median	Gillette St	R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-55	271+40	Right	Gillette St	R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-56	271+40	Right	Gillette St	R6-3	Divided Highway Crossing Sign and Intersection		30 X 24	5.00	---	---	---	---	---	---	---	---	---		Traffic Signal Standard
1-57R	271+40	Right	Gillette St	R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-58R	271+40	Right	Gillette St	R6-3	Divided Highway Crossing Sign and Intersection		30 X 24	---	---	---	---	---	---	---	---	1	---		Traffic Signal Standard
1-59	271+55	Right	Gillette St	R6-1L	One Way LEFT Arrow		36 X 12	3.00	---	---	---	---	---	---	---	---	---		Traffic Signal Standard
SHEET TOTALS								158.00	67.14	0	2	4	0	2	1	29	6		
STATE PROJECT NO: 7575-01-60				HWY: STH 16				COUNTY: LA CROSSE				MISCELLANEOUS QUANTITIES				SHEET NO:		E	
FILE NAME :				PLOT DATE :				PLOT BY :				PLOT NAME :				ORG DATE :		ORIGINATOR : DIST _	
																		PLOT SCALE : 1:1	



3

PERMANENT SIGNING																		
SHEET 2 OF 5																		

3

STATE PROJECT NO: 7575-01-60

HWY: STH 16

COUNTY: LA CROSSE

MISCELLANEOUS QUANTITIES

SHEET NO:

E



3

PERMANENT SIGNING																		
SHEET 3 OF 5																		
SIGN NUMBER	APPROX. STATION	POSITION	SITE ID	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIGN SIZE IN X IN	637.0202	637.0402	634.0612 634.0614 634.0616 634.0618				634.0805 634.0810		638.2602	638.3000	REMARKS
								SIGN REFLECTIVE	SIGN REFLECTIVE	POSTS WOOD 4X6-INCH				2X2 STEEL TUBULAR		REMOVING	REMOVING	
								TYPE II SF	TYPE II SF	12 FT EACH	14 FT EACH	16 FT EACH	18 FT EACH	5 FT EACH	10 FT EACH	SIGN TYPE II EACH	SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS
3-22R	305+25	Right	Sunset Lane	R6-3A	Divided Highway Crossing T Intersection		30 X 24	---	---	---	---	---	---	---	---	1	---	
3-23	305+45	Median		R4-7	Keep Right		36 X 48	12.00	---	---	1	---	---	---	---	---	---	
3-24R	305+45	Median		R4-7	Keep Right		24 X 30	---	---	---	---	---	---	---	---	1	1	
3-25R	305+45	Median			Frontage Road		24 X 24	---	---	---	---	---	---	---	---	1	---	On back of 3-24R
3-26R	305+45	Median		M6-1	Arrow - RIGHT, LEFT, OR AHEAD	[Left Arrow]	21 X 21	---	---	---	---	---	---	---	---	1	---	On back of 3-24R
3-27R	305+75	Right		M1-5A	County Marker	B	24 X 24	---	---	---	---	---	---	---	---	1	1	
3-28R	305+75	Right		M5-1R	Advance Arrow Right Turn		21 X 21	---	---	---	---	---	---	---	---	1	---	
3-29	306+00	Right		J13-1	Route Turn Assembly	B	36 X 66	16.50	---	---	---	1	---	---	---	---	---	
						[Advance Arrow Right Turn]		---	---	---	---	---	---	---	---	---	---	
3-30	306+00	Median		D1-1	One Destination (Arrow)	Sunset Ln [Left Arrow]	96 X 21	14.00	---	---	2	---	---	---	---	---	---	
3-31	307+25	Median		D1-1	One Destination (Arrow)	Conoco Rd [Left Arrow]	96 X 21	14.00	---	---	2	---	---	---	---	---	---	
4-00	307+35	Right		D1-1	One Destination (Arrow)	Barre Mills [Right Arrow]	102 X 21	14.88	---	2	---	---	---	---	---	---	---	
4-01R	307+50	Right		D1-1	One Destination (Arrow)	Barre Mills [Right Arrow]	66 X 15	---	---	---	---	---	---	---	---	1	2	
4-02R	307+75	Left			Laser Enforced		24 X 12	---	---	---	---	---	---	---	---	1	---	
4-03R	307+75	Left		R2-1	Speed Limit_MPH	45	24 X 30	---	---	---	---	---	---	---	---	1	1	
4-04	308+00	Left		R2-1	Speed Limit_MPH	45	36 X 48	12.00	---	---	---	1	---	---	---	---	---	
4-05R	309+50	Left		M3-4	WEST Cardinal Route Marker		24 X 12	---	---	---	---	---	---	---	---	1	---	
4-06R	309+50	Left		J4-2	Reassurance Assembly	16 - B	48 X 24	---	---	---	---	---	---	---	---	1	1	Cardinal Route Marker separate
4-07	309+05	Right		D7-95R	One Destination (Arrow)	La Crosse River State Trail	78 X 36	19.50	---	---	2	---	---	---	---	---	---	
						[Right Arrow]		---	---	---	---	---	---	---	---	---	---	
4-08R	309+15	Right		D7-95R	One Destination (Arrow)	La Crosse River State Trail	54 X 36	---	---	---	---	---	---	---	---	1	1	
						[Right Arrow]		---	---	---	---	---	---	---	---	---	---	
4-09	309+30	Median		R3-20LL	Begin Left Turn Lane With Down Left Arrow	[Down Left Arrow]	24 X 36	6.00	---	---	1	---	---	---	---	---	---	
4-10R	309+30	Median		R3-55L	Left Turn Lane With Down Right Arrow	[Down Left Arrow]	24 X 36	---	---	---	---	---	---	---	---	1	1	
4-11	310+00	Left		J4-2	Reassurance Assembly	West - BLANK	72 X 54	27.00	---	---	---	---	2	---	---	---	---	
						16 - B		---	---	---	---	---	---	---	---	---	---	
4-12	310+75	Left		R6-1L	One Way Left Arrow		36 X 12	3.00	---	---	---	---	---	---	---	---	---	Light Pole
4-13R	310+75	Left		R6-2L	One Way Left Arrow		24 X 30	---	---	---	---	---	---	---	---	1	---	Light Pole
4-14R	310+80	Median		R4-7	Keep Right		24 X 30	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard
4-15	310+80	Median		R4-7	Keep Right		24 X 30	5.00	---	---	---	---	---	---	---	---	---	Traffic Signal Standard
4-16	310+90	Left	Conoco Rd	R6-3	Divided Highway Crossing Sign and Intersection		30 X 24	5.00	---	---	---	---	---	---	---	---	---	Traffic Signal Standard
4-17	310+90	Left	Conoco Rd	R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---	Traffic Signal Standard
4-18R	310+90	Left	Conoco Rd	R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard
4-19R	310+90	Left	Conoco Rd	R6-3	Divided Highway Crossing Sign and Intersection		30 X 24	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard
4-20	310+50	Right		J13-1	Route Turn Assembly	B	36 X 66	16.50	---	---	---	1	---	---	---	---	---	
						[Right Arrow]		---	---	---	---	---	---	---	---	---	---	
4-21R	310+60	Right		M1-5A	County Marker	B	24 X 24	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard
4-22R	310+60	Right		M6-1	Arrow - RIGHT, LEFT, OR AHEAD	[Right Arrow]	21 X 21	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard
4-23	310+60	Median		R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---	Traffic Signal Standard
4-24R	310+60	Median		R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard
4-25	310+60	Right		R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---	Traffic Signal Standard
4-26R	310+60	Right		R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard
4-27	310+65	Right		R5-1	Do Not Enter		36 X 36	9.00	---	---	---	---	---	---	---	---	---	Traffic Signal Standard
4-28R	310+65	Right		R5-1	Do Not Enter		36 X 36	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard
4-29R	311+25	Right	Conoco Rd	R4-7	Keep Right		24 X 30	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard
4-30	311+25	Right	Conoco Rd	R4-7	Keep Right		24 X 30	5.00	---	---	---	---	---	---	---	---	---	Traffic Signal Standard
4-31R	311+25	Right	Conoco Rd	R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard
4-32	311+25	Right	Conoco Rd	R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---	Traffic Signal Standard
4-33	311+25	Right	Conoco Rd	R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---	Traffic Signal Standard
4-34	311+25	Right	Conoco Rd	R6-3	Divided Highway Crossing Sign and Intersection		30 X 24	5.00	---	---	---	---	---	---	---	---	---	Traffic Signal Standard
4-35	311+75	Right	Conoco Rd	R6-3	Divided Highway Crossing Sign and Intersection		30 X 24	5.00	---	---	---	---	---	---	---	---	---	Traffic Signal Standard
4-36R	311+75	Right	Conoco Rd	R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard
4-37R	311+75	Right	Conoco Rd	R6-3	Divided Highway Crossing Sign and Intersection		30 X 24	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard
4-38	312+00	Right	Conoco Rd	R4-7	Keep Right		24 X 30	5.00	---	---	1	---	---	---	---	---	---	
4-39R	312+00	Right	Conoco Rd	R4-7	Keep Right		24 X 30	---	---	---	---	---	---	---	---	1	1	
4-40	311+65	Median		R4-7	Keep Right		24 X 30	5.00	---	---	---	---	---	---	---	---	---	Traffic Signal Standard
4-41R	311+65	Median		R4-7	Keep Right		24 X 30	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard
4-42	311+75	Left		R5-1	Do Not Enter		36 X 36	9.00	---	---	---	---	---	---	---	---	---	Light Pole
4-43R	311+75	Left		R5-1	Do Not Enter		36 X 36	---	---	---	---	---	---	---	---	1	---	Light Pole
4-44	311+80	Left		R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---	Light Pole
4-45	311+80	Median		R1-1F	Stop (Folding)		36 X 36	---	7.46	---	---	---	---	---	---	---	---	Traffic Signal Standard
4-46R	311+80	Left		R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---	Light Pole
4-47R	311+80	Median		R1-1F	Stop (Folding)		36 X 36	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard

3

												SHEET TOTALS												208.38	52.22	2	9	3	2	0	0	31	9																										
STATE PROJECT NO: 7575-01-60												HWY: STH 16												COUNTY: LA CROSSE												MISCELLANEOUS QUANTITIES												SHEET NO:											



PERMANENT SIGNING																			
SHEET 4 OF 5																			
SIGN NUMBER	APPROX. STATION	POSITION	SITE ID	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	637.0202 SIGNS		637.0402 SIGNS		634.0612	634.0614	634.0616	634.0618	634.0805	634.0810	638.2602 REMOVING	638.3000 REMOVING	REMARKS
							SIGN SIZE IN X IN	REFLECTIVE TYPE II SF	REFLECTIVE FOLDING TYPE II SF	POSTS WOOD 4X6-INCH				2X2 STEEL TUBULAR		SIGN TYPE II EACH	SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS	
										12 FT EACH	14 FT EACH	16 FT EACH	18 FT EACH	5 FT EACH	10 FT EACH				
4-48R	311+75	Median	Conoco Rd	M1-5A	County Marker	B	24 X 24	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard	
4-49R	311+75	Median		M6-1	Arrow - RIGHT, LEFT, OR AHEAD	[Right Arrow]	21 X 21	---	---	---	---	---	---	---	---	1	---	Traffic Signal Standard	
4-50	311+80	Right		R6-1L	One Way Left Arrow		36 X 12	3.00	---	---	---	---	---	---	---	---	---	Light Pole	
4-51R	311+80	Right		R6-2L	One Way Left Arrow		24 X 30	---	---	---	---	---	---	---	---	1	---	Light Pole	
4-52R	311+80	Right		M3-2	EAST Cardinal Route Marker		24 X 12	---	---	---	---	---	---	---	---	1	---	Light Pole	
4-53R	311+80	Right		M1-6	State Route Marker	16	24 X 24	---	---	---	---	---	---	---	---	1	---	Light Pole	
4-54R	312+65	Left		M1-5A	County Marker	B	24 X 24	---	---	---	---	---	---	---	---	1	1		
4-55R	312+65	Left		M6-1	Arrow - RIGHT, LEFT, OR AHEAD	[Ahead Arrow]	21 X 21	---	---	---	---	---	---	---	---	1	---		
4-56	312+65	Left		J13-1	Route Turn Assembly	B	36 X 66	16.50	---	---	---	1	---	---	---	---	---		
						[Left Arrow]		---	---	---	---	---	---	---	---	---	---		
4-57	312+30	Right		J4-1	Reassurance Assembly	EAST	36 X 54	13.50	---	---	---	---	1	---	---	---	---		
						16		---	---	---	---	---	---	---	---	---	---		
4-58R	312+30	Right		R2-1	Speed Limit_MPH	45	36 X 48	---	---	---	---	---	---	---	---	1	1		
4-59R	312+30	Right			Laser Reinforced		24 X 12	---	---	---	---	---	---	---	---	1	---		
4-60	313+30	Median		R3-20LL	Begin Left Turn Lane With Down Left Arrow	[Down Left Arrow]	24 X 36	6.00	---	---	1	---	---	---	---	---	---		
4-61R	313+30	Median		R3-55L	Left Turn Lane With Down Right Arrow	[Down Left Arrow]	24 X 30	---	---	---	---	---	---	---	---	1	1		
4-62	313+30	Median		J13-1	Route Turn Assembly	B	36 X 66	16.50	---	---	---	1	---	---	---	---	---		
						[Left Arrow]		---	---	---	---	---	---	---	---	---	---		
4-63	313+75	Right		R2-1	Speed Limit_MPH	45	36 X 48	12.00	---	---	---	1	---	---	---	---	---		
4-64	314+25	Left		R5-1A	Wrong Way		42 X 30	8.75	---	---	1	---	---	---	---	---	---		
4-65R	314+25	Left		R5-1A	Wrong Way		36 X 24	---	---	---	---	---	---	---	---	1	---	Back of sign 4-66R	
4-66R	314+25	Left		I55-56	Adopt-A-Highway [Sponsor]	La Crosse Kiwanis Club	30 X 36	---	---	---	---	---	---	---	---	1	1		
								---	---	---	---	---	---	---	---	---	---		
								---	---	---	---	---	---	---	---	---	---		
4-67	314+35	Left		I55-56	Adopt-A-Highway [Sponsor]	La Crosse Kiwanis Club	30 X 36	7.50	---	---	---	1	---	---	---	---	---		
								---	---	---	---	---	---	---	---	---	---		
								---	---	---	---	---	---	---	---	---	---		
4-68	315+15	Left		D1-1	One Destination (Arrow)	Conoco Rd [Right Arrow]	96 X 21	14.00	---	---	---	1	1	---	---	---	---		
4-69	315+15	Left		J13-1	Route Turn Assembly	B	36 X 66	16.50	---	---	---	---	1	---	---	---	---		
						[Left Arrow Up Arrow]		---	---	---	---	---	---	---	---	---	---		
4-70R	315+15	Left		M1-5A	County Marker	B	24 X 24	---	---	---	---	---	---	---	---	1	1		
4-71R	315+15	Left		M6-6	Directional Arrow (Left Arrow Up Arrow)	[Left Arrow Up Arrow]	21 X 21	---	---	---	---	---	---	---	---	1	---		
4-72	314+75	Right		I55-56	Adopt-A-Highway [Sponsor]	McDonalds of Onalaska	30 X 36	7.50	---	---	---	1	---	---	---	---	---		
								---	---	---	---	---	---	---	---	---	---		
								---	---	---	---	---	---	---	---	---	---		
								---	---	---	---	---	---	---	---	---	---		
4-73R	314+75	Right		I55-56	Adopt-A-Highway [Sponsor]	McDonalds of Onalaska	30 X 36	---	---	---	---	---	---	---	---	1	1		
								---	---	---	---	---	---	---	---	---	---		
								---	---	---	---	---	---	---	---	---	---		
4-74R	315+50	Median		D1-1	One Destination (Arrow)	[Left Arrow] Barre Mills	66 X 15	---	---	---	---	---	---	---	---	1	1		
4-75	315+50	Median		D1-1	One Destination (Arrow)	[Left Arrow] Barre Mills	102 X 21	14.88	---	---	2	---	---	---	---	---	---		
4-76R	315+75	Median		W5-52L	Clearance Striper Down Right		12 X 36	---	---	---	---	---	---	---	---	---	1	1	
4-77	315+75	Median	W5-52L	Clearance Striper Down Right		18 X 54	6.75	---	1	---	---	---	---	---	---	---			
4-78R	315+75	Right	W5-52R	Clearance Striper Down Left		12 X 36	---	---	---	---	---	---	---	---	---	1	1		
4-79	315+75	Right	W5-52R	Clearance Striper Down Left		18 X 54	6.75	---	1	---	---	---	---	---	---	---			
5-00	324+15	Left	W3-3	Signal Ahead		36 X 36	9.00	---	---	---	1	---	---	---	---	---			
5-01	324+15	Median	W3-3	Signal Ahead		36 X 36	9.00	---	---	---	1	---	---	---	---	---			
5-02R	324+15	Left	W3-3	Signal Ahead		36 X 36	---	---	---	---	---	---	---	---	---	1	1		
5-03R	324+15	Median	W3-3	Signal Ahead		36 X 36	---	---	---	---	---	---	---	---	---	1	1		
5-04	324+15	Median	W5-52L	Clearance Striper Down Right		18 X 54	6.75	---	---	1	---	---	---	---	---	---			
5-05R	324+15	Median	W5-52L	Clearance Striper Down Right		12 X 36	---	---	---	---	---	---	---	---	---	1	1		
5-06	324+15	Left		W5-52R	Clearance Striper Down Left		18 X 54	6.75	---	1	---	---	---	---	---	---	---		
5-07R	324+15	Left		W5-52R	Clearance Striper Down Left		12 X 36	---	---	---	---	---	---	---	---	---	1	1	
5-08	325+35	Left		D7-95L	One Destination (Arrow)	La Crosse River State Trail [Left Arrow]	78 X 36	19.50	---	---	---	1	1	---	---	---	---		
								---	---	---	---	---	---	---	---	---	---		
								---	---	---	---	---	---	---	---	---	---		
								---	---	---	---	---	---	---	---	---	---		
5-09R	325+35	Left		D7-95L	One Destination (Arrow)	La Crosse River State Trail [Left Arrow]	54 X 36	---	---	---	---	---	---	---	---	1	2		
								---	---	---	---	---	---	---	---	---	---		
								---	---	---	---	---	---	---	---	---	---		
5-10R	325+35	Left		M2-1	Junction	JCT	21 X 15	---	---	---	---	---	---	---	---	1	1		
5-11R	325+35	Left		M1-5A	County Marker	B	24 X 24	---	---	---	---	---	---	---	---	1	---		
5-12	325+35	Left		J1-1	Junction or End Assembly	JCT	36 X 57	14.25	---	---	---	1	---	---	---	---	---		
					B		---	---	---	---	---	---	---	---	---	---			
5-13	326+00	Left	Side Road	R6-2R	One Way Right Arrow		24 X 30	5.00	---	---	1	---	---	---	---	---	---		
5-14R	326+00	Left		R6-2R	One Way Right Arrow		24 X 30	---	---	---	---	---	---	---	---	---	1	1	
5-15	326+05	Left		R1-1	Stop		36 X 36	7.46	---	---	---	1	---	---	---	---	---		
SHEET TOTALS								227.84	0.00	2	7	10	5	0	0	26	17		

STATE PROJECT NO: 7575-01-60

HWY: STH 16

COUNTY: LA CROSSE

MISCELLANEOUS QUANTITIES

SHEET NO:

E

FILE NAME : \_\_\_\_\_

PLOT DATE : \_\_\_\_\_

PLOT BY : \_\_\_\_\_

PLOT NAME : \_\_\_\_\_

ORG DATE : \_\_\_\_\_

ORIGINATOR : DIST \_

PLOT SCALE : 1:1



PERMANENT SIGNING  
SHEET 5 OF 5

						637.0202				637.0402				638.2602				638.3000													
						SIGN SIZE		SIGN TYPE II		SIGN FOLDING TYPE II		634.0612		634.0614		634.0616		634.0618		634.0805		634.0810		REMOVING SIGNS		REMOVING SMALL SIGN SUPPORTS		SIGN MOUNTED ON SAME POST AS		REMARKS	
SIGN NUMBER	APPROX. STATION	POSITION	SITE ID	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	IN	X	IN	SF	SF	12 FT EACH	14 FT EACH	16 FT EACH	18 FT EACH	5 FT EACH	10 FT EACH	TYPE II EACH	EACH	TYPE II EACH	EACH	ON SAME POST AS	REMARKS								
5-16R	326+05	Left	Side Road	R1-1	Stop		30	X	30	---	---	---	---	---	---	---	---	1	---	1	---										
5-17	326+25	Median		R5-1A	Wrong Way		42	X	30	8.75	---	---	1	---	---	---	---	---	---	---											
5-18R	326+25	Median		R5-1A	Wrong Way		36	X	24	---	---	---	---	---	---	---	---	1	---	1	---										
5-19R	326+25	Right		R5-1A	Wrong Way		36	X	24	---	---	---	---	---	---	---	---	1	---	---											
5-20	326+55	Island	Side Road	R4-7	Keep Right		24	X	30	5.00	---	---	1	---	---	---	---	---	---	---											
5-21R	326+55	Island	Side Road	R4-7	Keep Right		24	X	30	---	---	---	---	---	---	---	---	1	---	1	---										
5-22	326+30	Median		R5-1	Do Not Enter		36	X	36	9.00	---	---	1	---	---	---	---	---	---	---											
5-23	327+00	Left	Side Road	R5-1	Do Not Enter		36	X	36	9.00	---	---	1	---	---	---	---	---	---	---											
5-24R	326+30	Median		R5-1	Do Not Enter		36	X	36	---	---	---	---	---	---	---	---	1	---	1	---										
5-25R	327+00	Left	Side Road	R5-1	Do Not Enter		36	X	36	---	---	---	---	---	---	---	---	1	---	1	---										
5-26	327+30	Right	Side Road	R5-1	Do Not Enter		36	X	36	9.00	---	---	1	---	---	---	---	---	---	---											
5-27	327+85	Median		R5-1	Do Not Enter		36	X	36	9.00	---	---	1	---	---	---	---	---	---	---											
5-28R	327+30	Right	Side Road	R5-1	Do Not Enter		36	X	36	---	---	---	---	---	---	---	---	1	---	1	---										
5-29R	327+85	Median		R5-1	Do Not Enter		36	X	36	---	---	---	---	---	---	---	---	1	---	1	---										
5-30	327+75	Island	Side Road	R4-7	Keep Right		24	X	30	5.00	---	---	1	---	---	---	---	---	---	---											
5-31R	327+75	Island	Side Road	R4-7	Keep Right		24	X	30	---	---	---	---	---	---	---	---	1	---	1	---										
5-32	328+15	Right	Side Road	R1-1	Stop		36	X	36	7.46	---	---	---	1	---	---	---	---	---	---											
5-33R	328+15	Right	Side Road	R1-1	Stop		30	X	30	---	---	---	---	---	---	---	---	1	---	1	---										
5-34	328+20	Right	Side Road	R6-2R	One Way Right Arrow		24	X	30	5.00	---	---	1	---	---	---	---	---	---	---											
5-35R	328+20	Right	Side Road	R6-2R	One Way Right Arrow		24	X	30	---	---	---	---	---	---	---	---	1	---	1	---										
5-36	328+00	Median		R5-1A	Wrong Way		42	X	30	8.75	---	---	1	---	---	---	---	---	---	---											
5-37R	328+00	Median		R5-1A	Wrong Way		36	X	24	---	---	---	---	---	---	---	---	1	---	1	---										
5-38R	328+00	Left		R5-1A	Wrong Way		36	X	24	---	---	---	---	---	---	---	---	1	---	1	---										
5-39	332+25	Left		R3-7R	Right Lane Must Turn Right		36	X	36	9.00	---	---	1	---	---	---	---	---	---	---											
5-40R	332+25	Left		R3-7R	Right Lane Must Turn Right		36	X	36	---	---	---	---	---	---	---	---	1	---	1	---										
5-41	333+00	Right		J1-1	Junction or End Assembly	JCT	36	X	57	14.25	---	---	---	1	---	---	---	---	---	---											
						157				---	---	---	---	---	---	---	---	---	---	---											
5-42R	333+00	Right		J1-1	Junction or End Assembly	JCT	36	X	57	---	---	---	---	---	---	---	---	1	---	1	---										
						157				---	---	---	---	---	---	---	---	---	---	---											
5-43	334+25	Left		R2-1	Speed Limit_MPH	45	36	X	48	12.00	---	---	---	1	---	---	---	---	---	---											
5-44R	334+25	Left		R2-1	Speed Limit_MPH	45	24	X	30	---	---	---	---	---	---	---	---	1	---	1	---										
5-45	334+70	Right		J2-2	Route Turn Assembly (2 Headed Route Panel)	West - East	72	X	84	42.00	---	---	---	---	2	---	---	---	---	---											
						157 - 16				---	---	---	---	---	---	---	---	---	---	---											
						[Advance Arrow Left Turn] - [Up Arrow]				---	---	---	---	---	---	---	---	---	---	---											
5-46	334+70	Right		J3-1	Directional Assembly (1 Headed Route Panel)	To	36	X	84	21.00	---	---	---	---	1	---	---	---	---	---											
						90				---	---	---	---	---	---	---	---	---	---	---											
						[Up Arrow]				---	---	---	---	---	---	---	---	---	---	---											
5-47R	334+75	Right		J2-3	Route Turn Assembly (3 Headed Route Panel)	West - East - To	72	X	57	---	---	---	---	---	---	---	---	1	---	2	---										
						157 - 16 - 90				---	---	---	---	---	---	---	---	---	---	---											
						[Advance Arrow Left Turn] - [Up Arrow] - [Up Arrow]				---	---	---	---	---	---	---	---	---	---	---											
5-48	335+15	Left		R3-5R	Lane Control Symbol Right		42	X	48	14.00	---	---	---	---	---	---	---	---	---	---			Overhead post								
5-49R	335+15	Left		R3-5R	Lane Control Symbol Right		42	X	48	---	---	---	---	---	---	---	---	1	---	---			Overhead post								
											SHEET TOTALS		188.21	0.00	0	10	3	3	0	0	18	17									
											PROJECT TOTALS		1066.64	126.82	6	45	29	10	2	1	138	72									

CONSTRUCTION STAKING RESURFACING REFERENCE						CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT)							
CATEGORY	STATION	TO	STATION	LOCATION	650. 8000 LF	REMARKS	CATEGORY	STATION	TO	STATION	LOCATION	650. 9910 LS	REMARKS
0010	270+00	-	335+14	EB	6514		0010	270+00	-	335+14	EB	1	
0010	270+00	-	335+30	WB	6530			270+00	-	335+30	WB		
TOTAL 0010					13044		TOTAL 0010					1	

STATE PROJECT NO: 7575-01-60	HWY: STH 16	COUNTY: LA CROSSE	MISCELLANEOUS QUANTITIES	SHEET NO:
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FILE NAME : \_\_\_\_\_ PLOT DATE : \_\_\_\_\_ PLOT BY : \_\_\_\_\_ PLOT NAME : \_\_\_\_\_ ORG DATE : \_\_\_\_\_ ORIGINATOR : DIST \_ PLOT SCALE : 1:1



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TRAFFIC CONTROL												
CATEGORY	STATION TO	STATION	LOCATION	DRUMS 643. 0300 DAYS	BARRICADES TYPE III 643. 0420 DAYS	WARNING LIGHTS TYPE A 643. 0705 DAYS	WARNING LIGHTS TYPE C 643. 0715 DAYS	ARROW BOARDS 643. 0800 DAYS	SIGNS 643. 0900 DAYS	SIGNS PCMS 643. 1050 DAY	CONES SPV. 0045. 01 DAY	REMARKS
DURATION OF PROJECT (50 DAYS)												
0010	ADVANCE SIGNING		EB WEST OF PROJECT LIMITS						400	64		ADVANCE SIGNING
0010			WB WEST OF PROJECT LIMITS						100			ERW
0010	GILLETTE ST			750	100	200	350		250			ADVANCE SIGNING + LCx2
0010	FRONTAGE RD/SUNSET LN		BOTH ENDS						200			3xRWA + NO LT TURN
0010	CONOCO RD								50			RWA
0010	CTH B			400	50	100	150		100			RWA
0010			EB EAST OF PROJECT LIMITS						100			ERW
0010	ADVANCE SIGNING		WB EAST OF PROJECT LIMITS						400	64		ADVANCE SIGNING
0010	WB RAMP FROM HOLIDAY HEIGHTS		WB						50			RWA
CROSSOVER CONSTRUCTION (4 DAYS TOTAL)												
0010	266+00 - 270+50		EB LEFT LANE CLOSURE	148	8	16	96	8	12			
0010	271+50 - 277+50		EB LEFT LANE CLOSURE	60	8	12						
0010	297+50 - 307+50		EB LEFT LANE CLOSURE	92	4	8	44	4	4			
0010	272+25 - 284+00		WB LEFT LANE CLOSURE	104	8	16	44	4	12			
0010	305+00 - 309+50		WB LT TL CLOSURE	40	24	32			8			
0010	309+25		WB LT TL CLOSURE						4			NO LT TURN
STAGE 1 (23 DAYS)												
0010	256+65 - 270+50		EB LEFT LANE CLOSURE	851	46	92	552	46	69			
0010	273+50 - 275+50		CROSSOVER							529		
0010	271+50 - 304+25		EB		69	115			92	1518		
0010	304+75 - 310+75		WB CROSSOVER		161	253			161	782		
0010	311+85 - 322+70		WB RIGHT LANE CLOSURE	828			552	46	23			
STAGE 2 (23 DAYS)												
0010	257+00 - 270+50		EB RIGHT LANE CLOSURE	920	46	92	552	46	69			
0010	271+55 - 276+60		EB CROSSOVER		138	207			161	621		
0010	304+55		EB MAINLINE CLOSURE		115	138			23			
0010	274+95 - 310+85		WB		46	92			69	1656		
0010	304+70 - 306+15		WB CROSSOVER						782			
0010	311+85 - 323+45		WB LEFT LANE CLOSURE	759	23	46	552	46	46			
BRIDGES STAGE 1 (4 DAYS TOTAL)												
0010	305+00 - 310+50		EB LEFT LANE CLOSURE	72	8	32	32		12			
0010	311+65 - 333+05		EB LEFT LANE CLOSURE	100	20	36			16			
0010	315+25 - STH 157		WB RIGHT LANE CLOSURE	200	24	36	56	8	24			
0010	STH 157		SB RT						8			
0010	EB RAMP FROM HOLIDAY HEIGHTS		EB						4			RWA
BRIDGES STAGE 2 (4 DAYS TOTAL)												
0010	300+00		EB RIGHT LANE CLOSURE						4			
0010	305+50 - 310+50		EB RIGHT LANE CLOSURE	60	4	8	24		12			
0010	311+75 - 333+00		EB RIGHT LANE CLOSURE	156	20	36	48		20			
0010	EB RAMP FROM HOLIDAY HEIGHTS		EB						4			
0010	307+65 - 310+75		WB CROSSOVER		8	16			8	36		
0010	311+85 - STH 157		WB LEFT LANE CLOSURE	196	12	24	80	8	20			
0010	STH 157		SB RT						8			
TOTAL 0010				5736	942	1607	3132	216	2543	128	5924	
STATE PROJECT NO: 7575-01-60			HWY: STH 16			COUNTY: LA CROSSE			MISCELLANEOUS QUANTITIES			SHEET NO:
												E



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PAVEMENT MARKING													
CATEGORY	STATION TO	STATION	LOCATION	EPOXY	EPOXY	REMOVING	ARROWS	ARROWS	WORDS	STOPLINE	I SLAND	CROSSWALK	TEMPORARY
				4- INCH	8- INCH	PAVEMENT	EPOXY	EPOXY	EPOXY	EPOXY	NOSE	EPOXY	4- INCH
				646. 0106	646. 0126	646. 0600	647. 0166	647. 0176	647. 0356	647. 0566	647. 0606	647. 0776	649. 0100
				LF	LF	LF	EACH	EACH	EACH	LF	EACH	LF	LF
													REMARKS
0010	GILLETTE ST			413	485		3	2					4" YELLOW CENTERLINE
0010	GILLETTE ST			63									4" WHITE LANE LINE 12. 5' SKIPS
0010	270+25	WB	32. 8' LT									40	RT TL FROM GILLETTE
0010	270+33	WB	39. 9' LT							20			RT TL FROM GILLETTE
0010	268+95	EB	18' RT				1						RT TL TO SUNSET LN/FRONTAGE RD
0010	269+39	EB	18' RT						1				RT TL TO SUNSET LN/FRONTAGE RD
0010	269+82	EB	18' RT				1						RT TL TO SUNSET LN/FRONTAGE RD
0010	270+29	WB	14' RT								1		
0010	270+27	EB	32. 1' LT							24			
0010	270+41	EB	M/L							36			
0010	270+47	EB										197	BOTH LINES
0010	270+65	WB	14' LT								1		
0010	270+68 - 270+99	WB	27. 5' LT							27			
0010	270+68 - 271+32	WB	17. 5' & 23. 5' LT									128	BOTH LINES
0010	270+65 - 271+41	EB	31' RT									76	
0010	270+71 - 271+37	EB	37' RT									67	
0010	271+04	EB	40. 4' RT								1		
0010	271+08 - 271+36	EB	41' RT							27			
0010	271+12	EB	101' RT								1		
0010	SUNSET LN			116	60		1	1					
0010	271+50	WB										190	BOTH LINES
0010	271+54	WB	M/L							24			
0010	271+60	WB	31. 7' RT							15			LT TL TO SUNSET LN/FRONTAGE RD
0010	271+58	WB	36' LT									38	RT TL TO GILLETTE
0010	271+64	WB	32' LT							19			RT TL TO GILLETTE
0010	271+53 - 273+75	WB	12' LT		268								RT TL TO GILLETTE
0010	271+54 - 310+64	WB	C/L	788									4" WHITE LANE LINE 12. 5' SKIPS
0010	271+56 - 272+51	WB	12' RT	95									4" YELLOW CENTERLINE
0010	271+59 - 272+51	WB	25' RT	93									4" WHITE EDGE (LT TL TO GILLETTE)
0010	271+60 - 304+80	WB	36' - 12' RT	3316									4" YELLOW C/L (LT TL TO GILLETTE)
0010	271+48 - 304+48	EB	12' LT	3307									4" YELLOW CENTERLINE
0010	271+49 - 310+59	EB	C/L	788									4" WHITE LANE LINE 12. 5' SKIPS
0010	271+52 - 304+55	EB	24' - 12' RT	3298									4" WHITE EDGE LINE
0010	271+69 - 310+70	WB	24' - 12' LT	3912									4" WHITE EDGE LINE
0010	271+53	EB	18' LT								1		
0010	272+51 - 273+46	WB	12' - 22' RT		191								LT TL TO SUNSET LN
0010	272+70	WB	18' LT				1						
0010	273+22	WB	18' LT						1				
0010	273+70	WB	18' LT				1						
0010	303+08	304+61	EB	12' RT	153								RT TL TO FRONTAGE RD
0010	303+30		EB	18' RT			1						RT TL TO FRONTAGE RD
0010	304+10		EB	18' RT			1						RT TL TO FRONTAGE RD
0010	305+12		WB	28' RT							1		
0010	304+66	305+21	EB	29. 4' RT								55	
0010	304+72	305+17	EB	37. 4' RT								45	8' CROSSWALK
0010	304+95	305+16	EB	41. 4' RT						21			
0010	305+31		EB	22' LT							1		
0010	305+67 - 307+65	WB	12' RT		198								LT TL TO FRONTAGE RD
PAGE TOTAL				16189	1355	0	10	3	2	213	7	836	0
STATE PROJECT NO: 7575-01-60				HWY: STH 16			COUNTY: LA CROSSE			MISCELLANEOUS QUANTITIES			SHEET NO:
													E

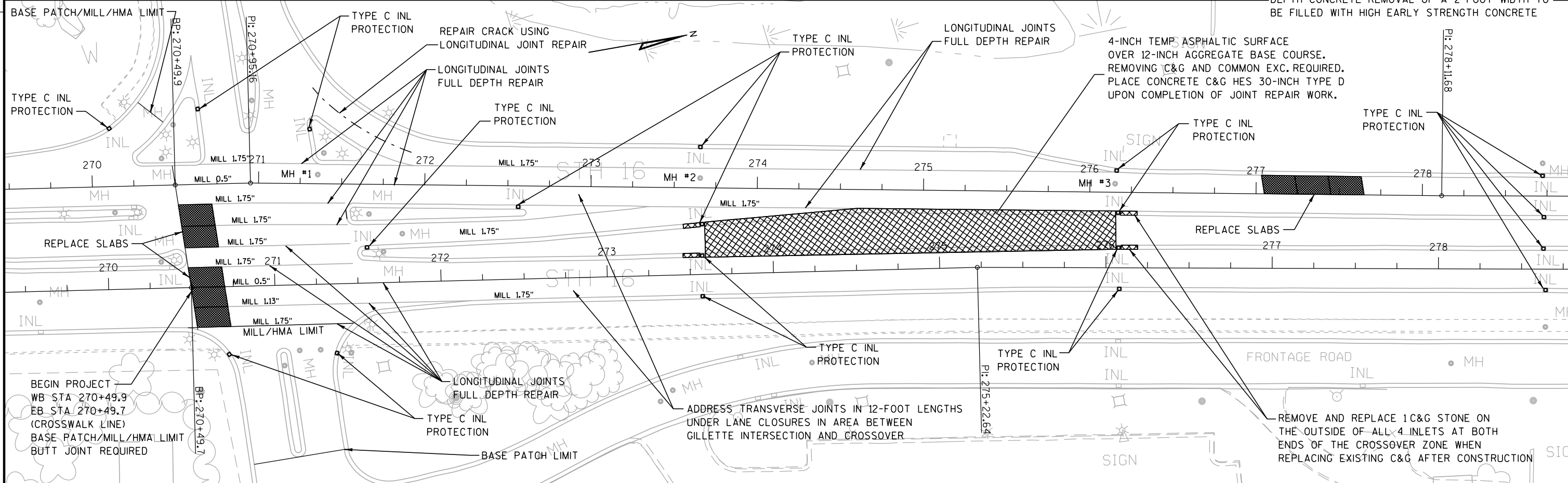
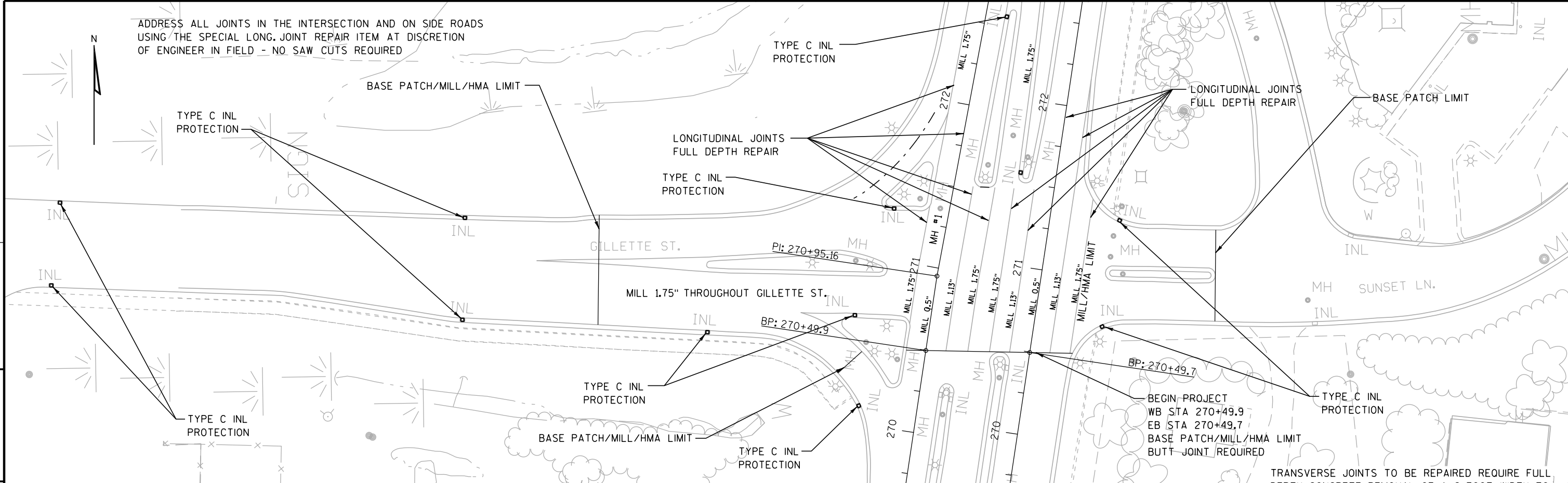


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3

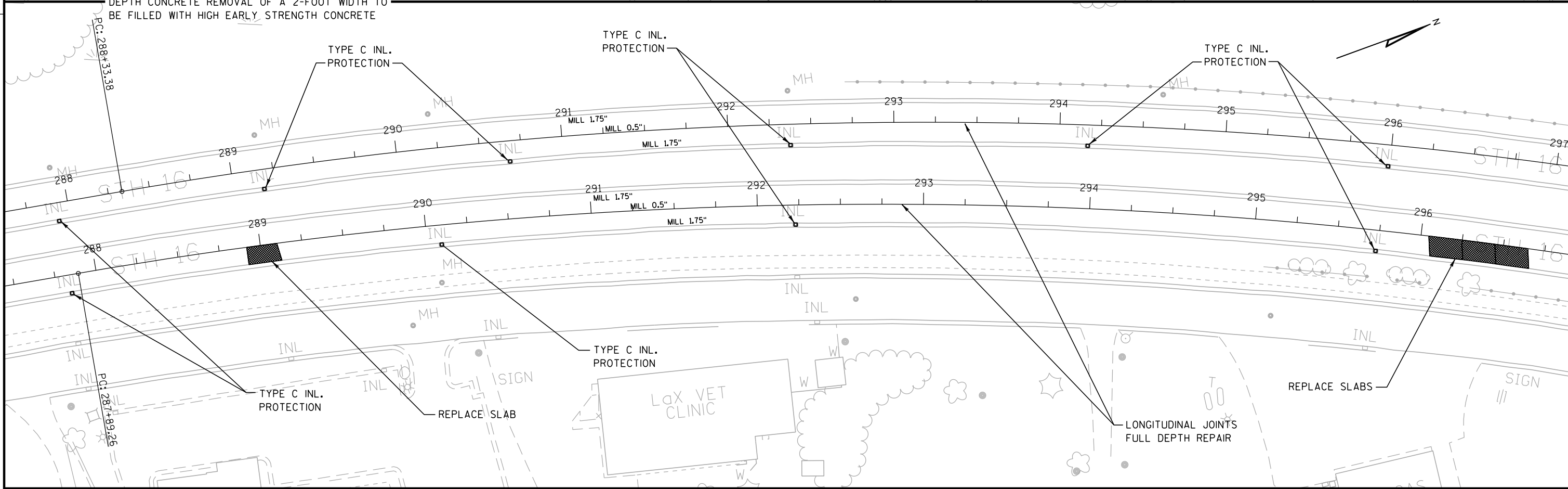
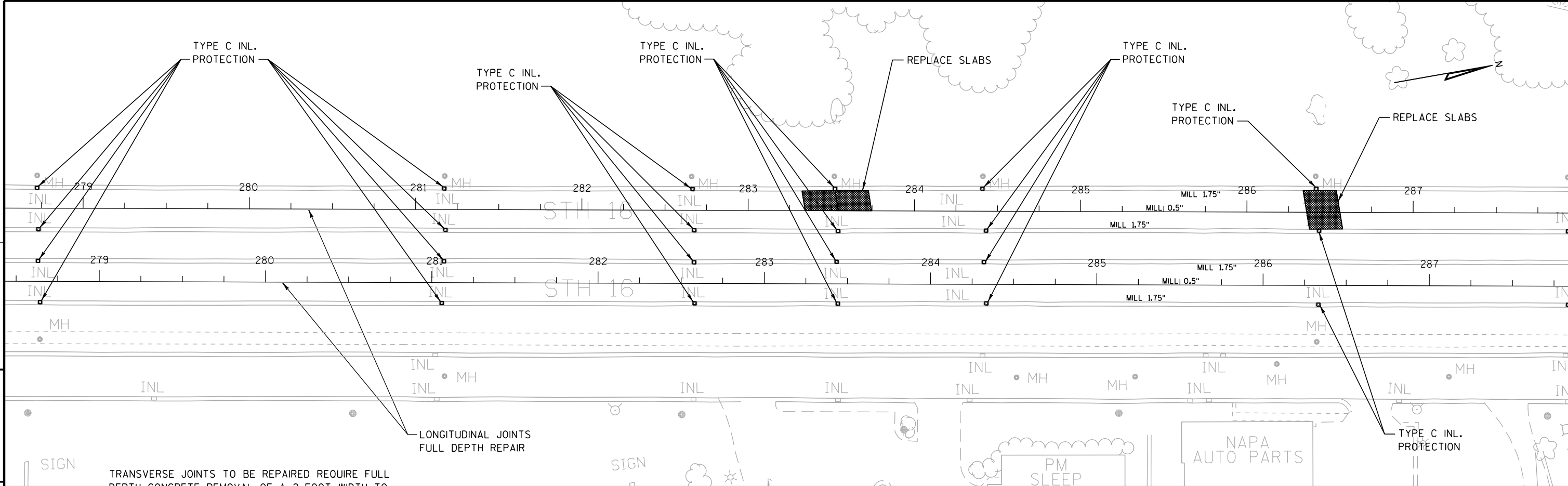
PAVEMENT MARKING																
CATEGORY	STATION	TO	STATION	LOCATION	EPOXY	EPOXY	REMOVING	ARROWS	ARROWS	WORDS	STOPLINE	ISLAND	CROSSWALK	TEMPORARY	REMARKS	
					4- INCH	8- INCH	PAVEMENT	EPOXY	EPOXY	EPOXY	EPOXY	NOSE	EPOXY	4- INCH		
					646. 0106	646. 0126	MARKINGS	TYPE 2	TYPE 3	647. 0356	18- INCH	EPOXY	12- INCH	(SAME DAY)		
					LF	LF	LF	EACH	EACH	EACH	LF	EACH	LF	LF		
0010	305+44	-	310+58	EB	12' - 24'	RT	515								4" WHITE EDGE LINE	
0010	305+88	-	310+85	WB	12' - 24'	RT	498								4" YELLOW CENTERLINE	
0010	305+51	-	310+48	EB	12' - 36'	LT	499								4" YELLOW CENTERLINE	
0010	306+35			WB	18'	RT		1							LT TL TO FRONTAGE RD	
0010	306+82			WB	18'	RT				1					LT TL TO FRONTAGE RD	
0010	307+29			WB	18'	RT		1							LT TL TO FRONTAGE RD	
0010	308+19	-	309+35	EB	12' - 24'	LT									LT TL TO CONOCO RD	
0010	308+19	-	309+35	EB	12'	LT										
0010	309+13	-	310+58	EB	12'	RT									RT TL TO CTH B	
0010	309+29			EB	18'	RT		1							RT TL TO CTH B	
0010	310+09			EB	18'	RT		1							RT TL TO CTH B	
0010	309+35	-	310+51	EB	24'	LT	118								4" WHITE EDGE LINE (LT TL TO CONOCO)	
0010	309+35	-	310+59	EB	12'	LT	124								4" YELLOW CENTERLINE	
0010	310+52			EB	24'	LT					12					
0010	310+59			EB	M/L						36					
0010	CONOCO RD						38	2	2		27				CONOCO RD	
0010				CTH B			80								4" YELLOW CENTERLINE	
0010				CTH B				2	1		39	1	157		CTH B	
0010	311+88			WB	M/L						36					
0010	311+85	-	313+25	WB	12'	RT	140								4" YELLOW CENTERLINE	
0010	311+88	-	335+30. 2	WB	C/L		475								4" WHITE LANE LINE 12. 5' SKIPS	
0010	311+90	-	312+28	WB	12'	LT										
0010	311+92	-	325+87	WB	24' - 12'	LT	1390								4" WHITE EDGE LINE	
0010	311+94			WB	23'	RT					12				LT TL TO CTH B	
0010	311+94	-	313+26	WB	23'	RT	132								4" WHITE EDGE LT TL TO CTH B	
0010	311+99	-	335+30. 2	WB	34' - 12'	RT	2338								4" YELLOW CENTERLINE	
0010	311+60			EB	18'	LT						1				
0010	311+62	-	335+14	EB	12'	LT	2348								4" YELLOW CENTERLINE	
0010	311+77	-	335+14	EB	C/L		475								4" WHITE LANE LINE 12. 5' SKIPS	
0010	311+77	-	327+18	EB	12' - 24'	RT	1548								4" WHITE EDGE LINE	
0010	325+21	-	326+69	EB	12' - 24'	RT		149							RT TL TO 12TH AVE, 4" WHITE	
0010	325+97	-	326+69	EB	12'	RT		72							RT TL TO 12TH AVE, 8" WHITE	
0010	326+26	-	331+59	WB	12'	LT									RT TL TO 12TH AVE	
0010	12TH AVE ON/OFF RAMP (WB)										24	1				
0010	326+69	-	328+06	EB	12'	RT									RT TL TO 12TH AVE	
0010	12TH AVE ON/OFF RAMP (EB)										22	1				
0010	327+37	-	335+30. 2	EB	24'	LT	794								4" WHITE EDGE LINE	
0010	327+64			WB	18'	LT		1								
0010	328+05			WB	18'	LT				1						
0010	328+03	-	335+14	EB	24' - 12'	RT	717								4" WHITE EDGE LINE	
0010	328+06	-	329+40	EB	12'	RT									4" WHITE LANE LINE	
0010	328+39	-	332+93	EB	24' - 12'	RT		134							4" WHITE EDGE LINE	
0010	330+88			WB	18'	LT		454								
0010	331+28			WB	18'	LT		1								
0010	331+59	-	335+30. 2	WB	12'	LT	93								4" WHITE - 3' SKIP & 9' SPACE	
0010	271+54	-	315+27. 9	WB	C/L									1726	4" WHITE SKIPS ON MILLED SURFACE	
0010	271+49	-	315+84. 7	EB	C/L									1752	AND/OR REPAIRED LONG. JOINT	
PAGE TOTAL					12284	1564	809	10	3	3	208	4	157	3478		
TOTAL 0010					28473	2919	809	20	6	5	421	11	993	3478		
STATE PROJECT NO: 7575-01-60					HWY: STH 16			COUNTY: LA CROSSE			MISCELLANEOUS QUANTITIES			SHEET NO:		E





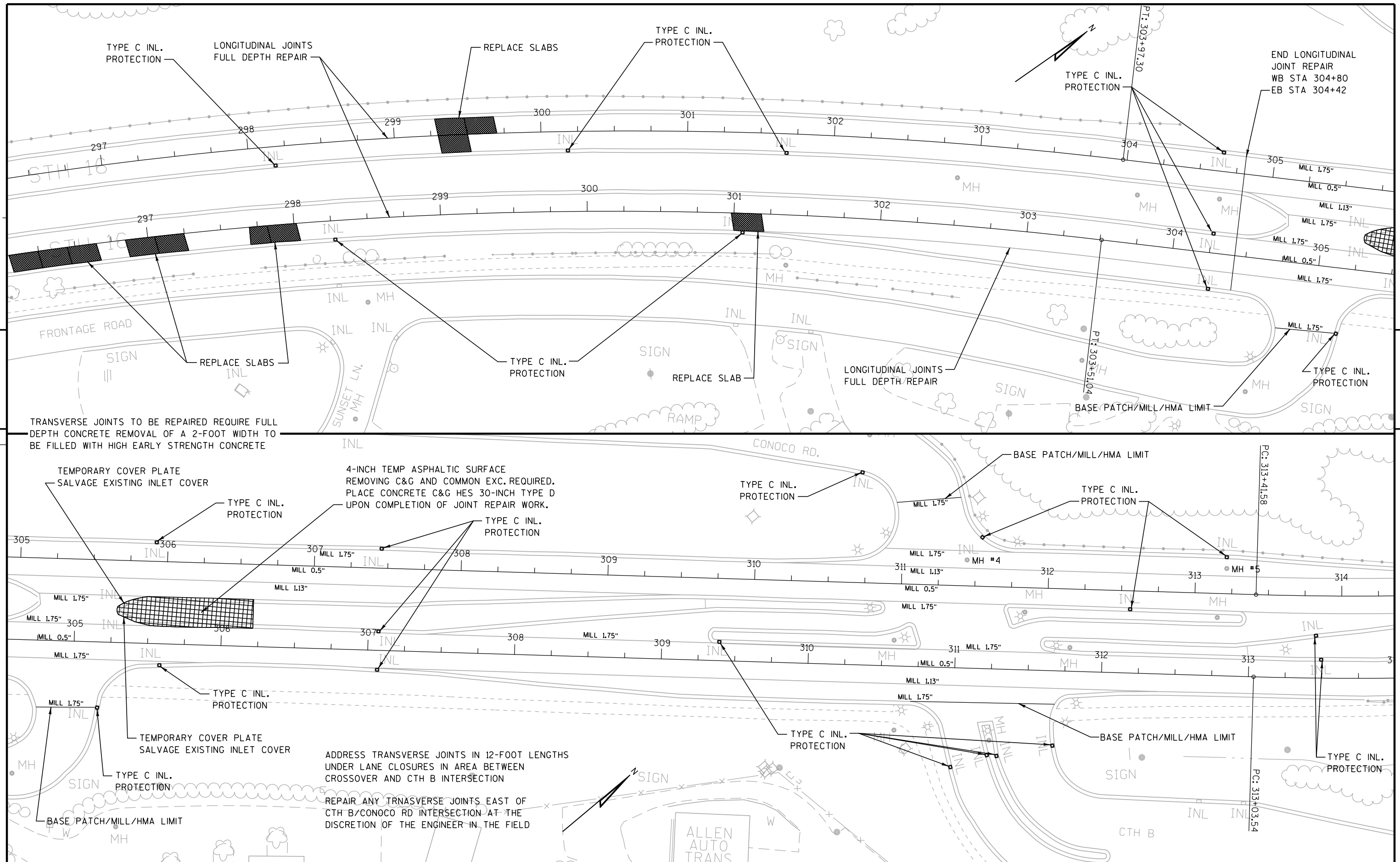
PROJECT NO: 7575-01-60	HWY: STH 16	COUNTY: LA CROSSE	PLAN	SHEET	E
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PROJECT NO: 7575-01-60	HWY: STH 16	COUNTY: LA CROSSE	PLAN	SHEET	E
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PROJECT NO: 7575-01-60

HWY: STH 16

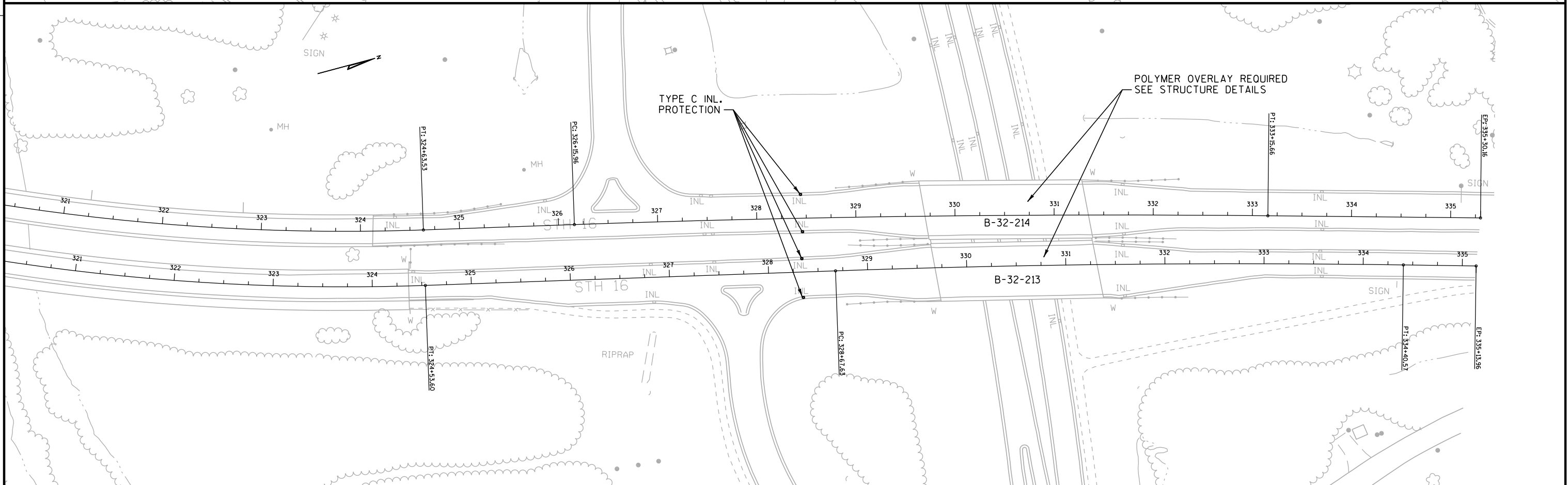
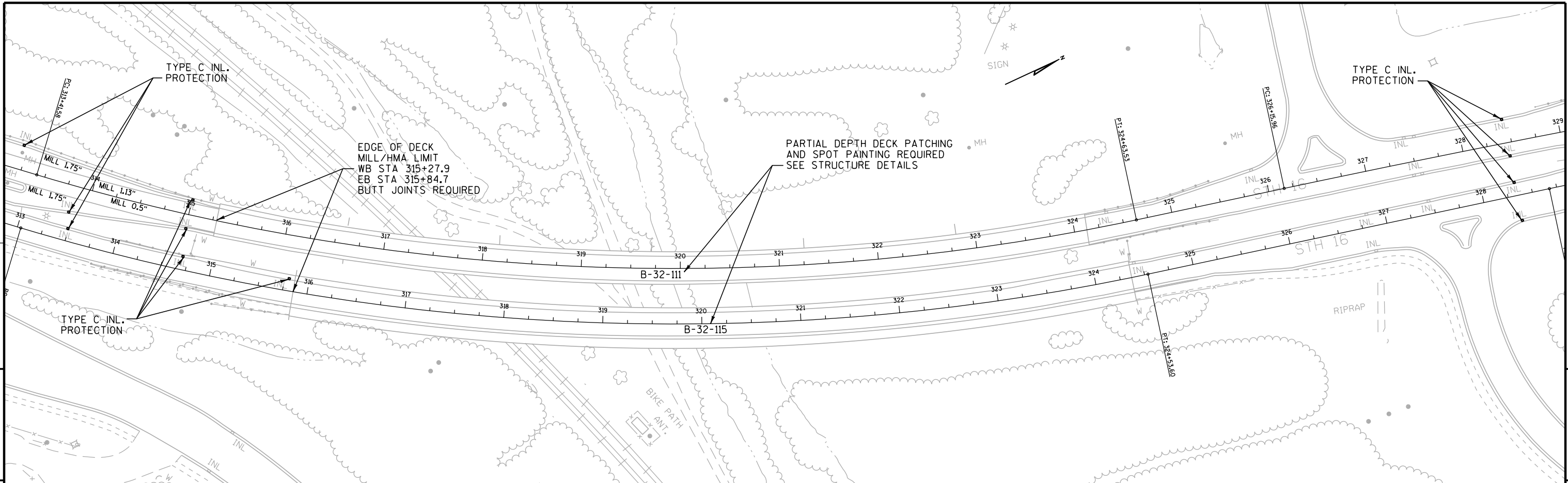
COUNTY: LA CROSSE

PLAN

SHEET

E





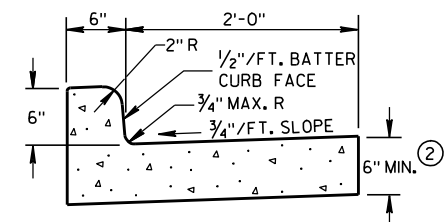
PROJECT NO: 7575-01-60	HWY: STH 16	COUNTY: LA CROSSE	PLAN	SHEET	E
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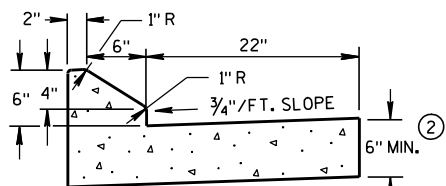
Standard Detail Drawing List

08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08E10-02	INLET PROTECTION TYPE A, B, C AND D
13C09-09A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-09B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-09C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C14-04A	BASE PATCHING CONCRETE
13C14-04B	BASE PATCHING CONCRETE
13C14-04C	BASE PATCHING CONCRETE
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-15A	PAVEMENT MARKING (MAINLINE)
15C08-15B	PAVEMENT MARKING (INTERSECTIONS)
15C08-15E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-15F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C12-03	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-01C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15D11-03	TRAFFIC CONTROL, SINGLE LANE CROSSOVER
15D12-02	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
15D20-01	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-01	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D22-01	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

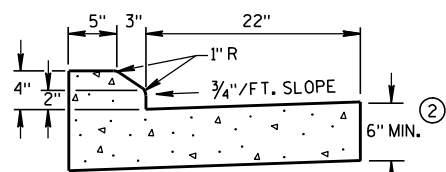




TYPES A &amp; D ①



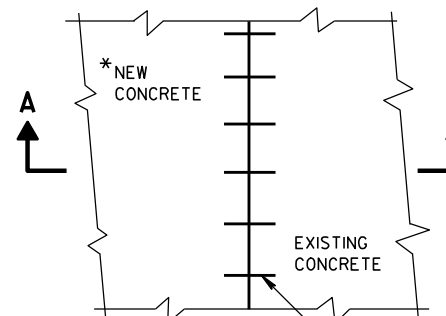
6" SLOPED CURB TYPES G &amp; J ①



4" SLOPED CURB TYPES G &amp; J ①

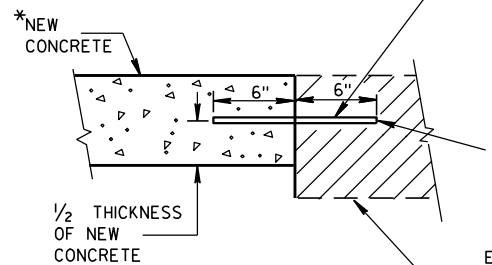
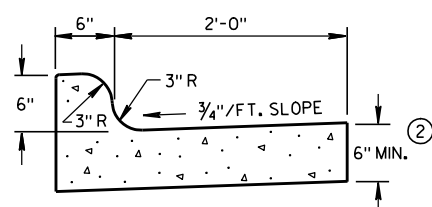
CONCRETE CURB &amp; GUTTER 30"

\* NEW CURB & GUTTER,  
SURFACE DRAINS,  
CONCRETE PAVEMENT  
OR OTHER NEW CONCRETE.

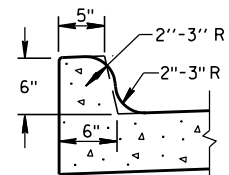
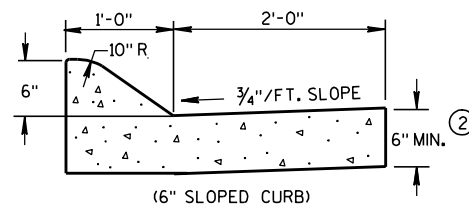


PLAN VIEW

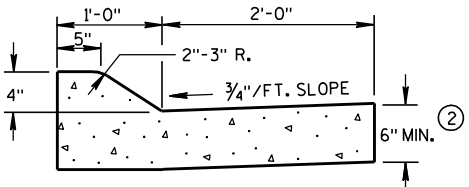
NO. 6 TIE BARS SPACED 2'-6" C-C,  
INSTALLED PERPENDICULAR  
TO THE LONGITUDINAL JOINT.

SECTION A-A  
TIE BARS DRILLED  
INTO EXISTING PAVEMENT

TYPES K &amp; L ①

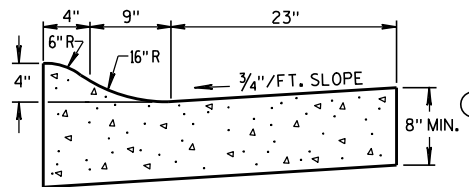
OPTIONAL CURB SHAPE  
FOR TYPES K & L ①

(6" SLOPED CURB)

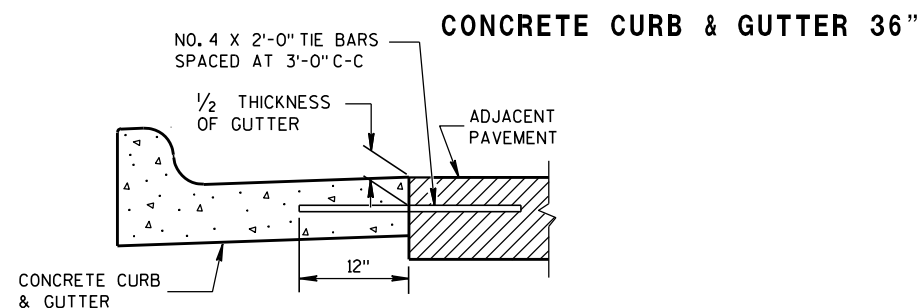


(4" SLOPED CURB)

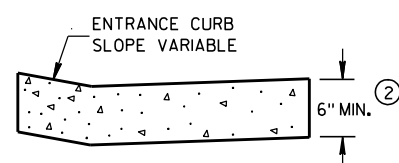
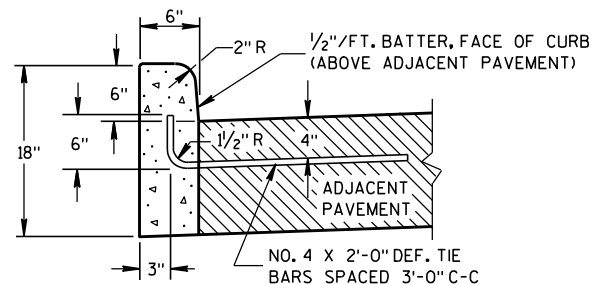
TYPES A &amp; D ①



4" SLOPED CURB TYPES R &amp; T ① ④

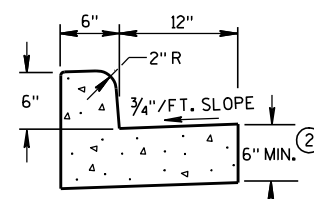
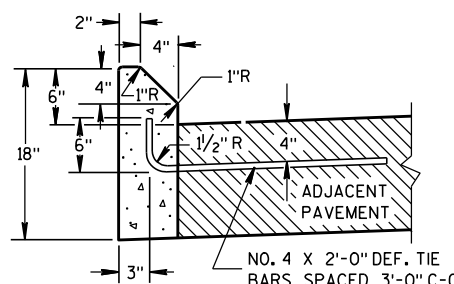


TYPICAL TIE BAR LOCATION ①

DRIVEWAY ENTRANCE CURB  
(WHEN DIRECTED BY THE ENGINEER)

TYPES A &amp; D ①

CONCRETE CURB

TYPES A & D  
CONCRETE CURB & GUTTER 18"

TYPES G &amp; J ①

## GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

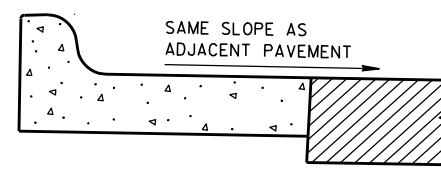
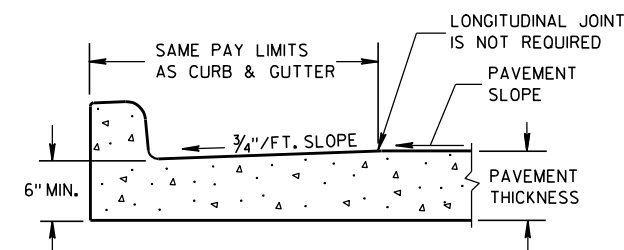
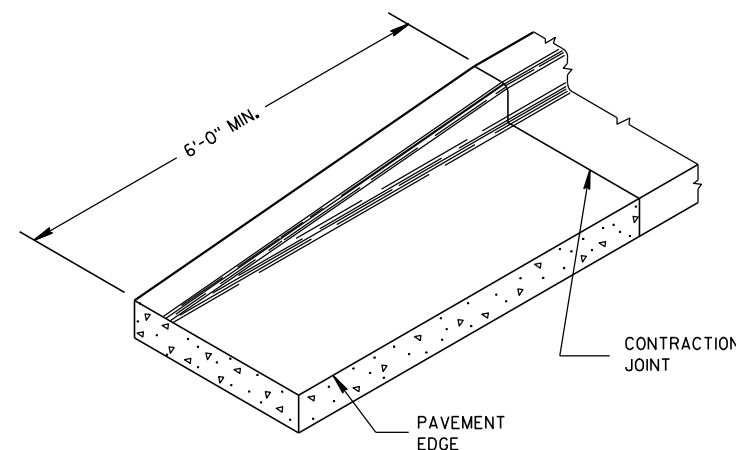
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

REVERSE SLOPE GUTTER ⑤  
(TYPICAL FOR ALL CURB & GUTTER TYPES)PARTIAL SECTION OF PAVEMENT  
WITH INTEGRAL CURB & GUTTER

END SECTION CURB &amp; GUTTER

CONCRETE CURB, CONCRETE  
CURB & GUTTER AND TIES

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

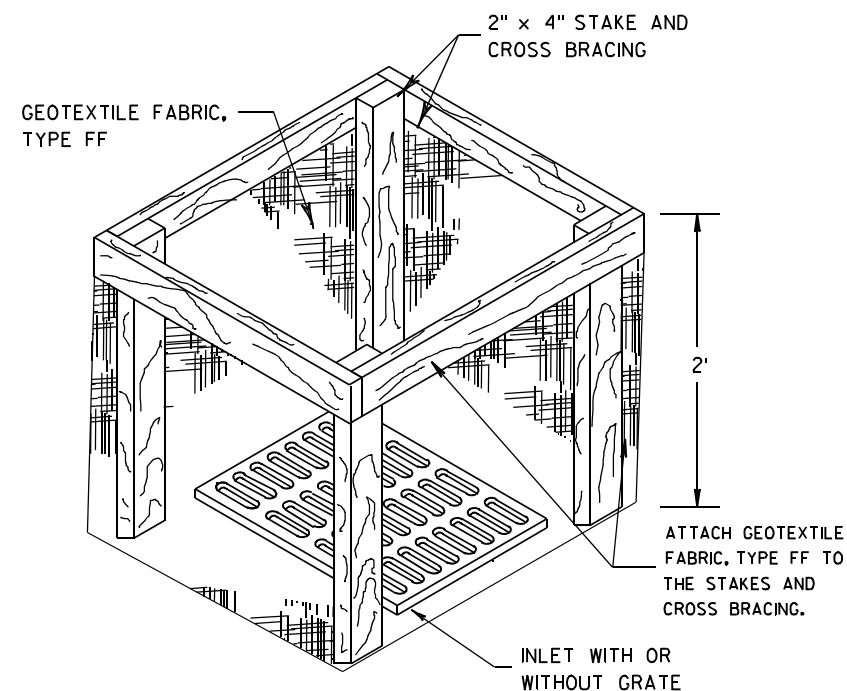
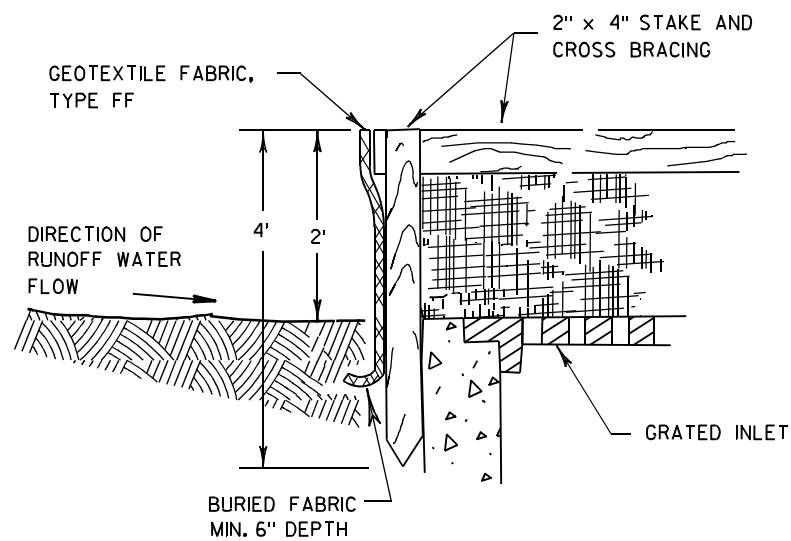
9/4/08

DATE

FHWA

/S/ Jerry H. Zogg  
ROADWAY STANDARDS DEVELOPMENT  
ENGINEER





**INLET PROTECTION, TYPE A**

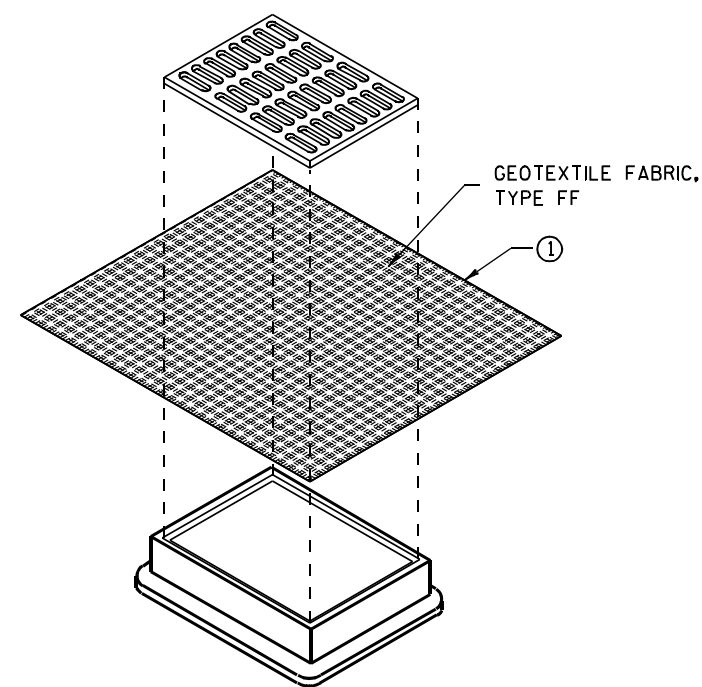
**GENERAL NOTES**

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

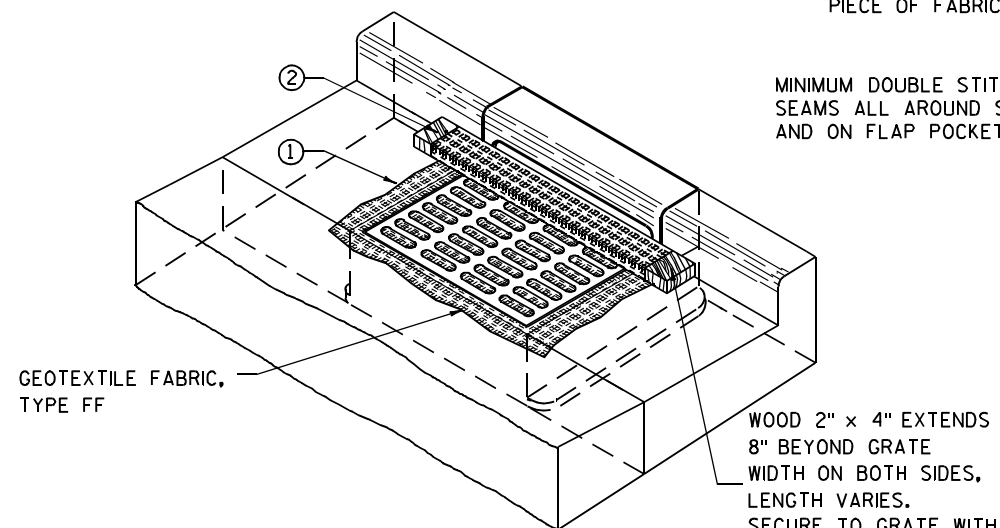
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B  
(WITHOUT CURB BOX)**

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



**INLET PROTECTION, TYPE C (WITH CURB BOX)**

**INSTALLATION NOTES**

**TYPE B & C**

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

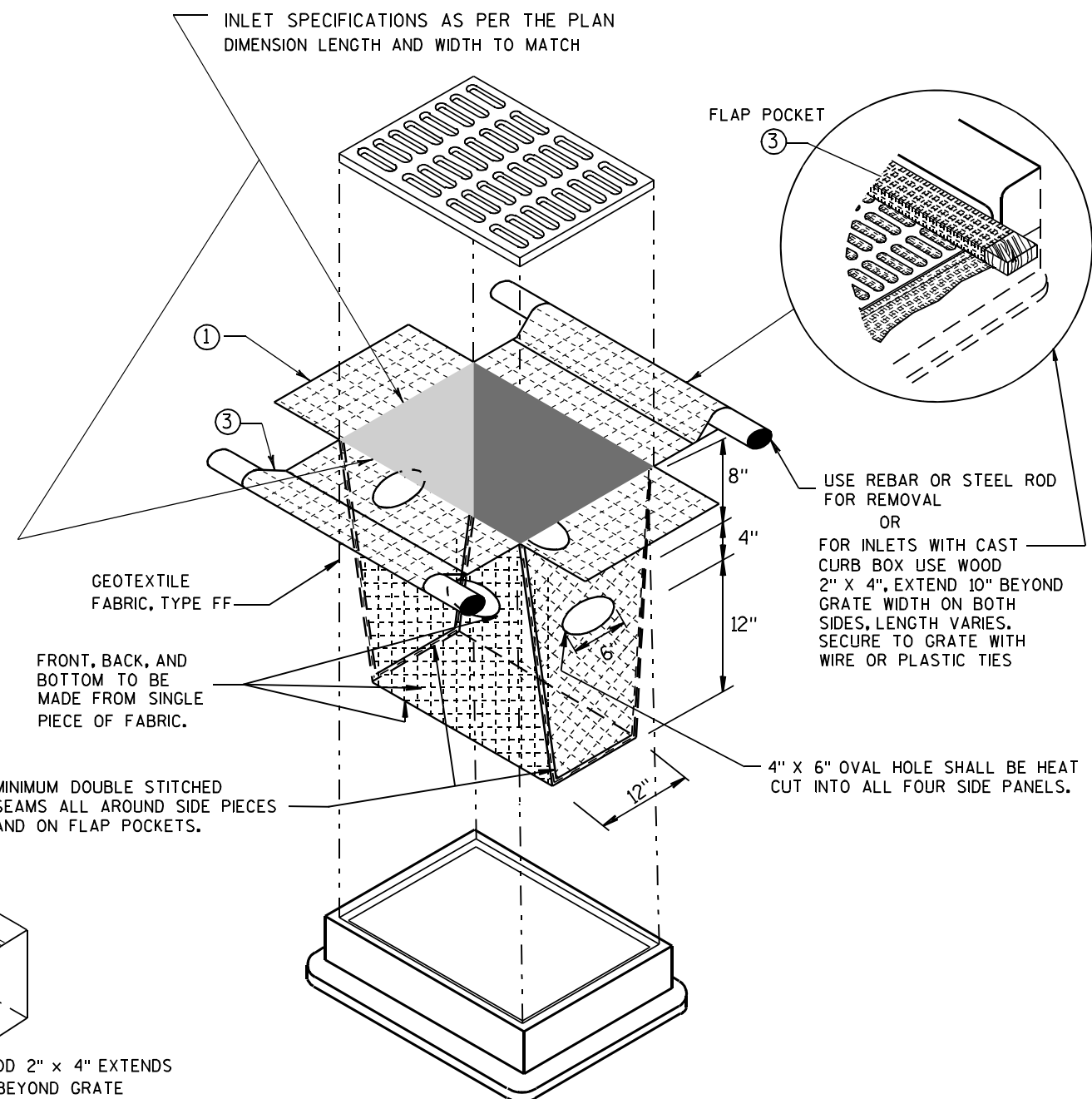
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

**TYPE D**

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLower THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



**INLET PROTECTION, TYPE D**

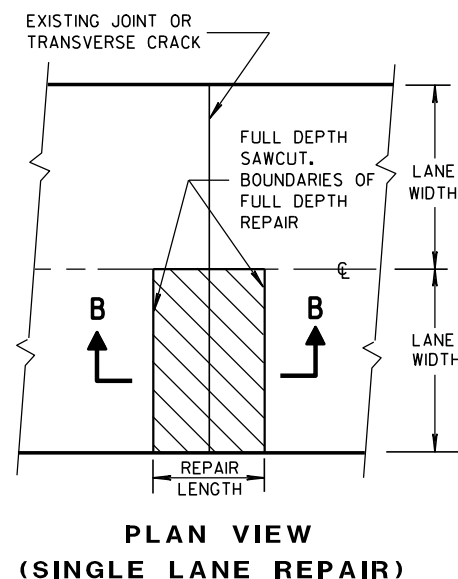
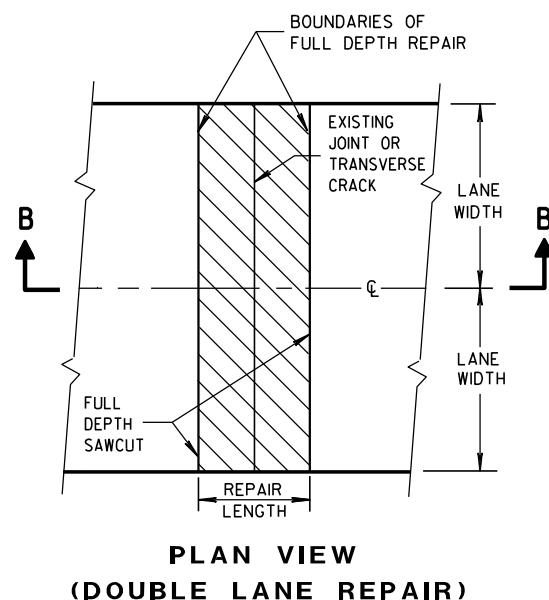
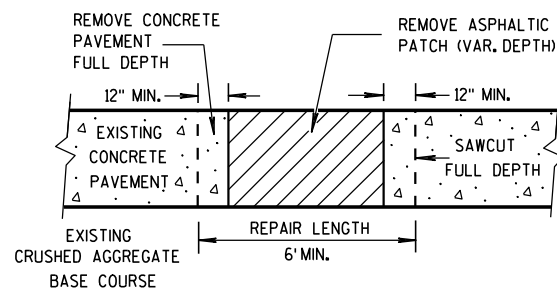
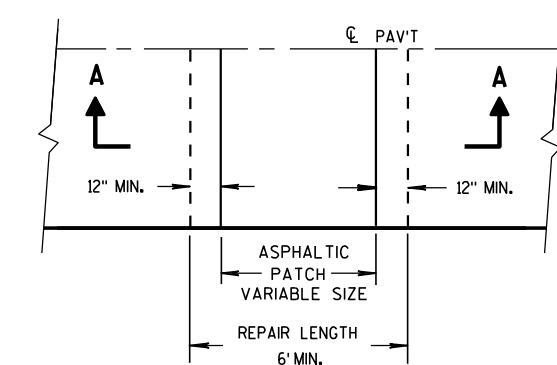
(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

**INLET PROTECTION  
TYPE A, B, C, AND D**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
10/16/02 /S/ Beth Cannestra  
DATE  
FHWA CHIEF ROADWAY DEVELOPMENT ENGINEER





FULL DEPTH CONCRETE PAVEMENT REMOVAL  
(SEE NOTE)

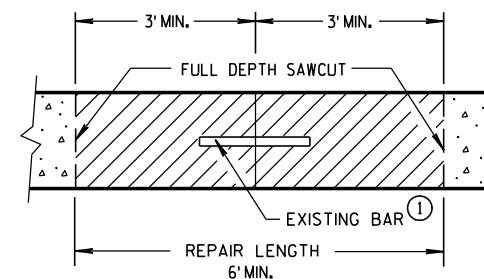
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES. ADDITIONAL SAW CUTS ARE NOT PAID FOR BY THE DEPARTMENT.

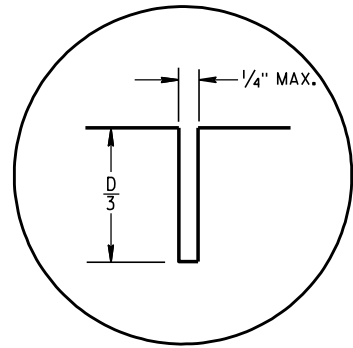
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

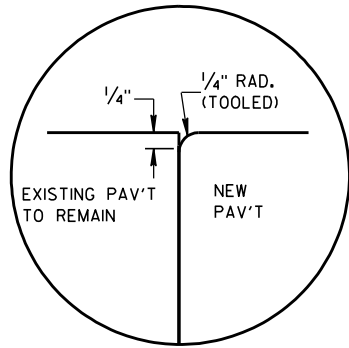
① DOWEL BARS MIGHT NOT EXIST.





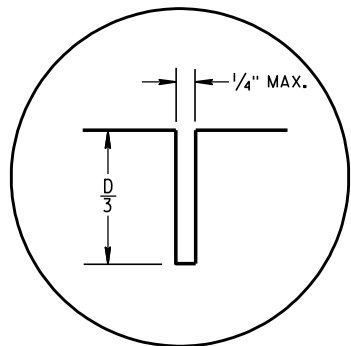


C1

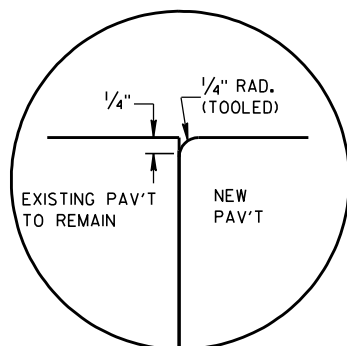


C2

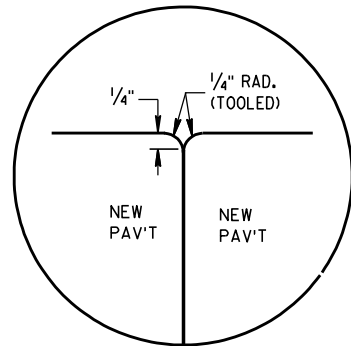
## TRANSVERSE JOINTS



L1

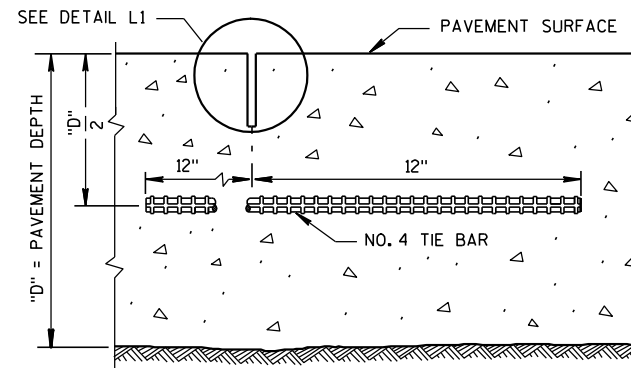


L2

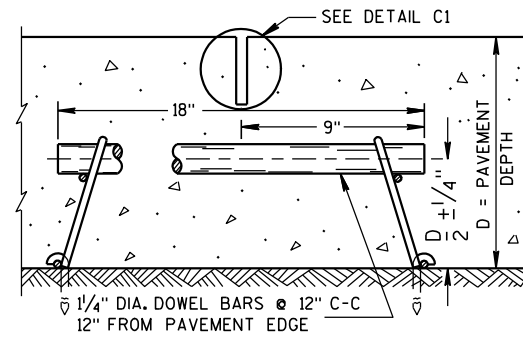


L3

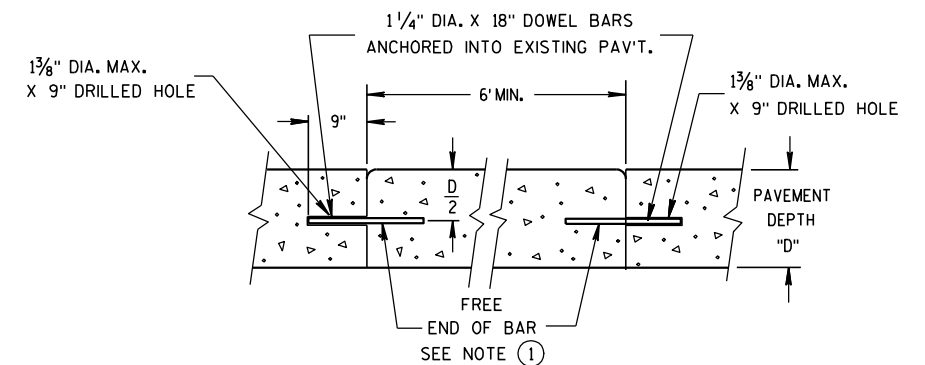
## LONGITUDINAL JOINTS



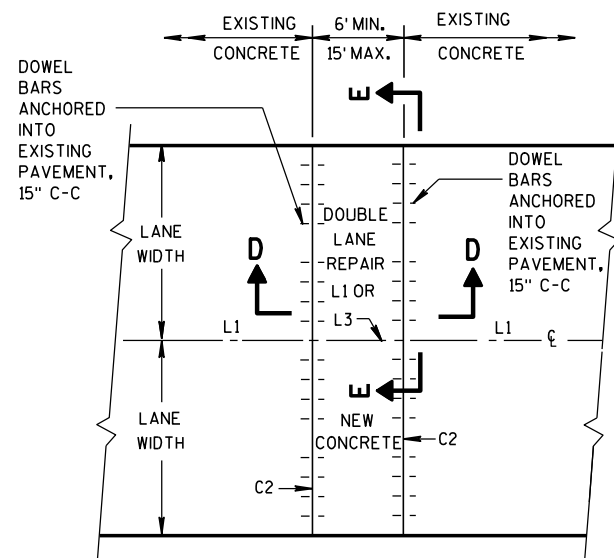
SECTION C-C  
SAWED LONGITUDINAL JOINT



SECTION F-F  
CONTRACTION JOINT

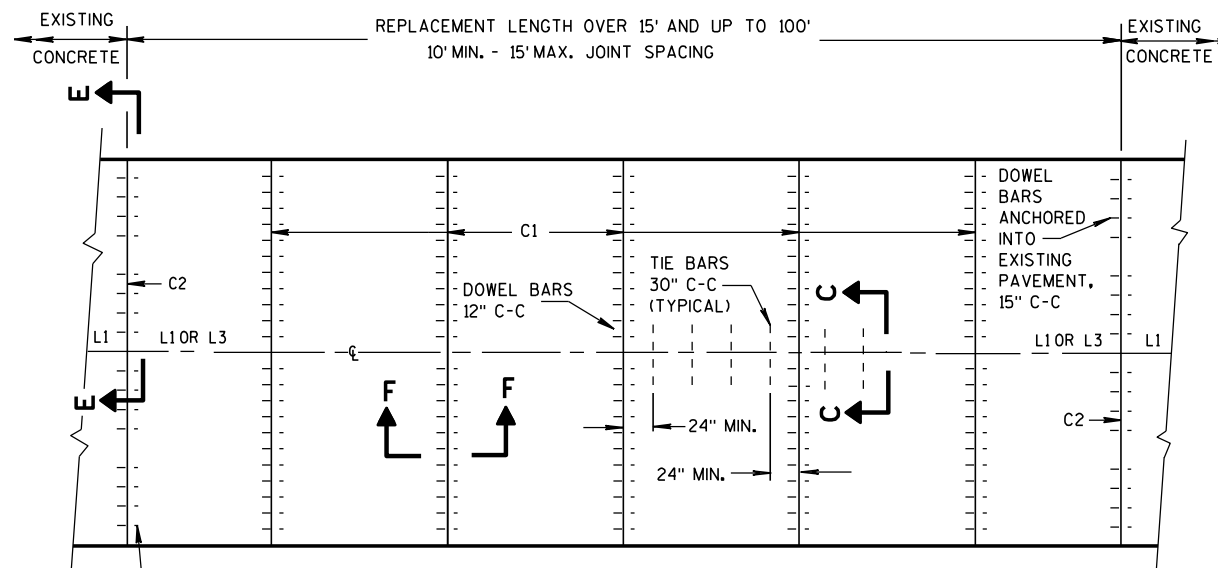


SECTION D-D



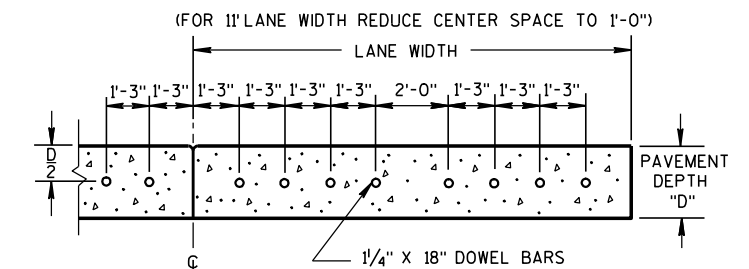
PLAN VIEW

## MULTI-LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

## MULTI-LANE CONCRETE PAVEMENT REPLACEMENT



SECTION E-E  
SPACING OF DOWEL BARS  
ANCHORED INTO EXISTING PAVEMENT

## GENERAL NOTES

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

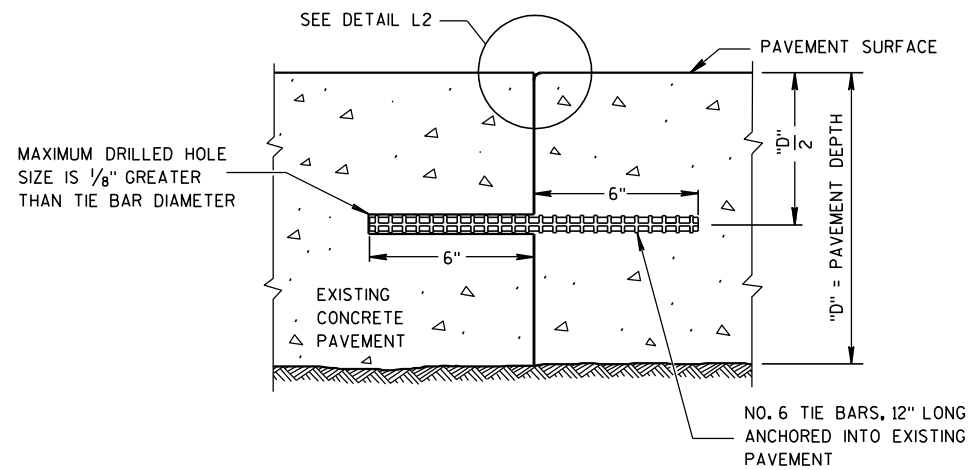
DO NOT SEAL OR FILL JOINTS.

ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 24 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

- APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

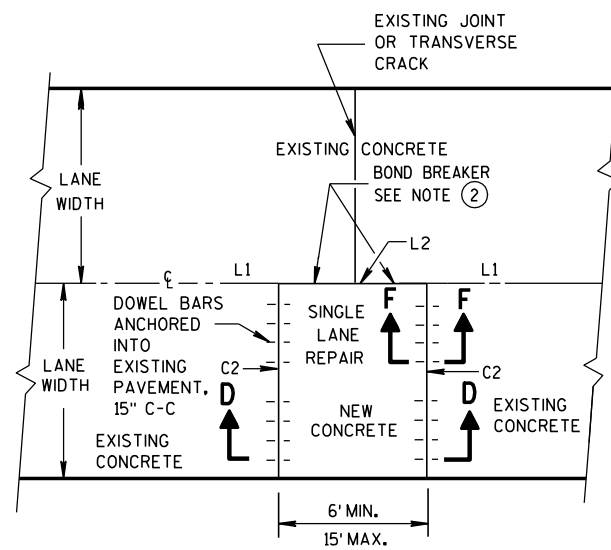




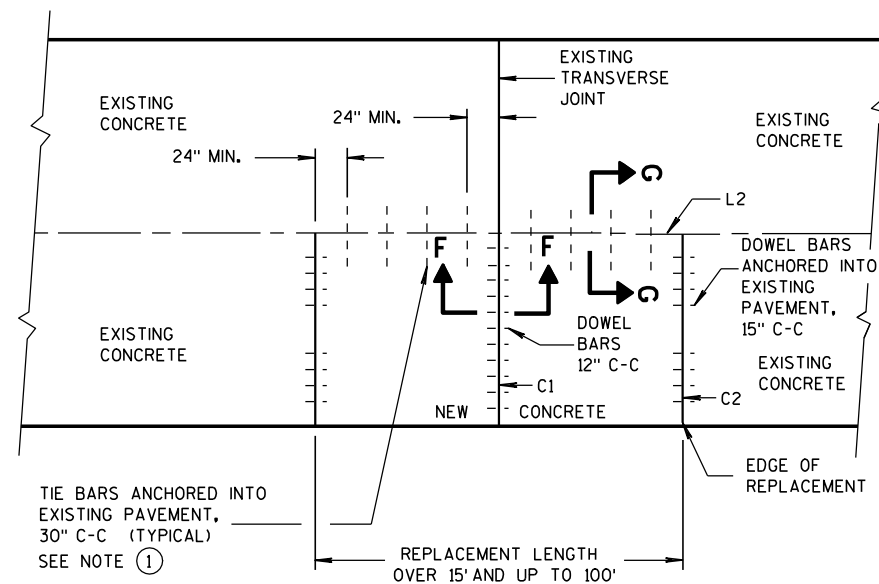
SECTION G-G  
TIE BARS ANCHORED  
INTO EXISTING PAVEMENT

## GENERAL NOTES

- ① WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES AND TO SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
- ② USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.



PLAN VIEW  
SINGLE LANE  
CONCRETE PAVEMENT REPAIR



PLAN VIEW  
SINGLE LANE  
CONCRETE PAVEMENT REPLACEMENT

## CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

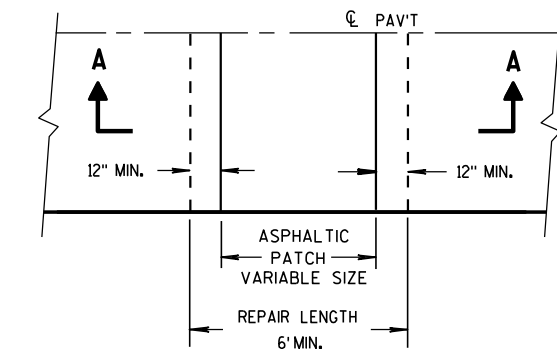
APPROVED

11-1-2011  
DATE

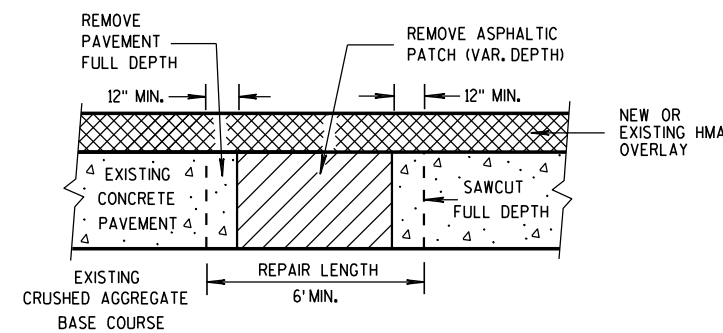
FHWA

/S/ Deb Bischoff  
PAVEMENT POLICY & DESIGN ENGINEER



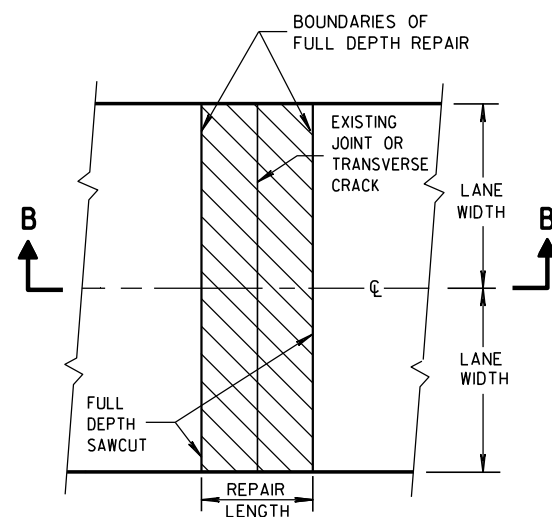


PLAN VIEW

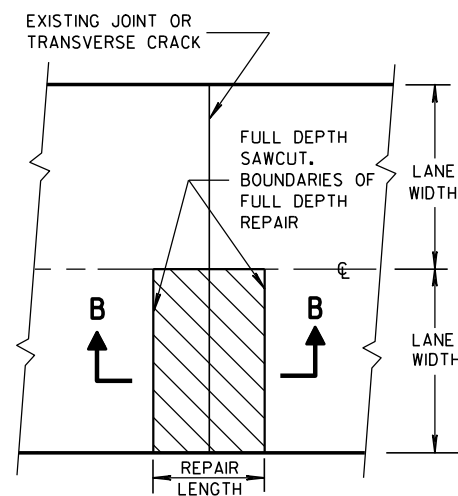


SECTION A-A

HMA PATCH REMOVAL



PLAN VIEW  
(DOUBLE LANE REPAIR)



PLAN VIEW  
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL

(SEE NOTE)

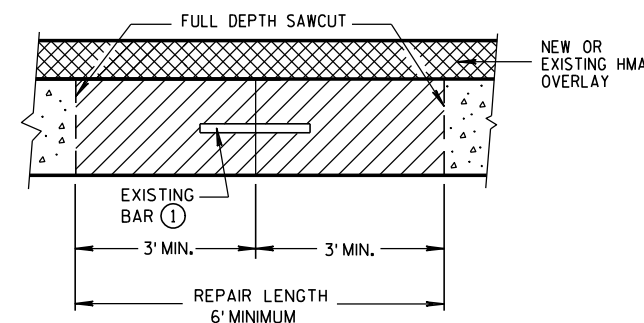
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES. ADDITIONAL SAW CUTS ARE NOT PAID FOR BY THE DEPARTMENT.

PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

① DOWEL BARS MIGHT NOT EXIST.

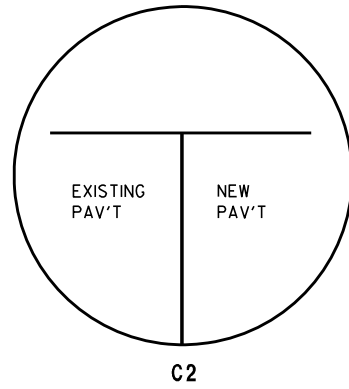
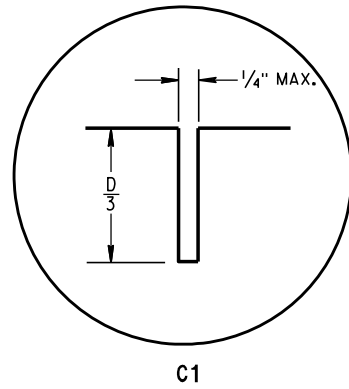


SECTION B-B  
CONCRETE REMOVAL

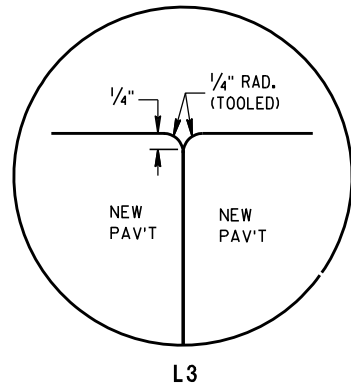
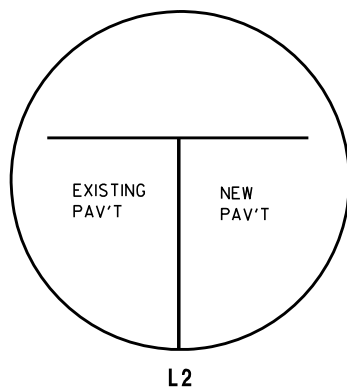
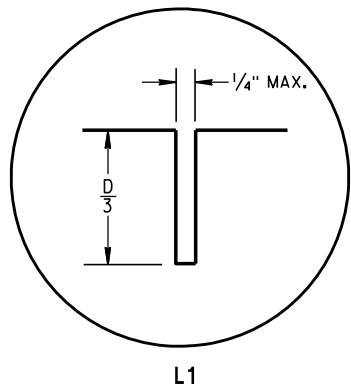
BASE PATCHING CONCRETE

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

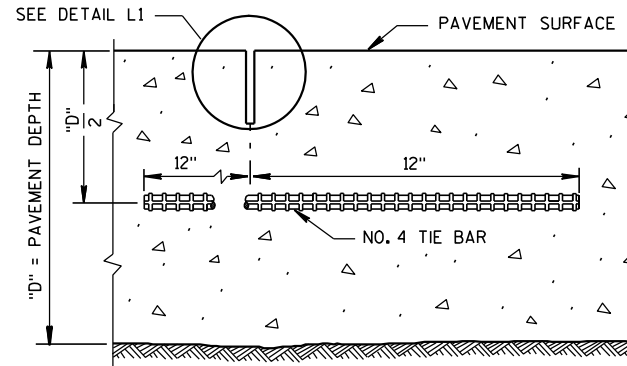




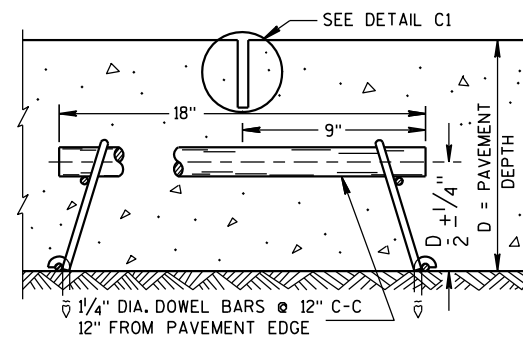
## TRANSVERSE JOINTS



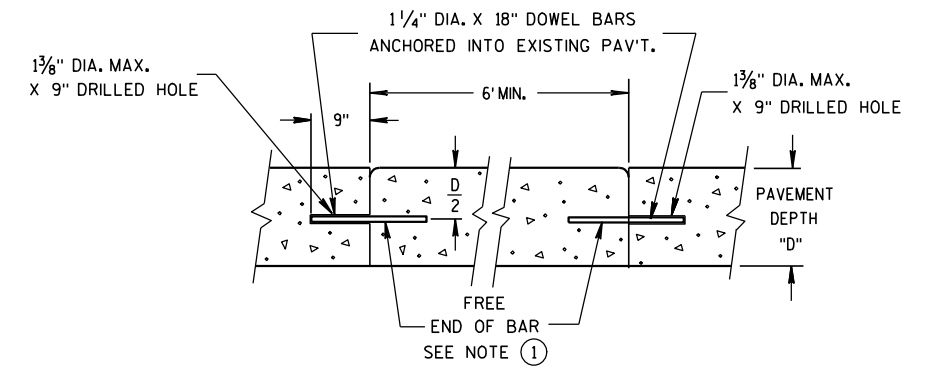
## LONGITUDINAL JOINTS



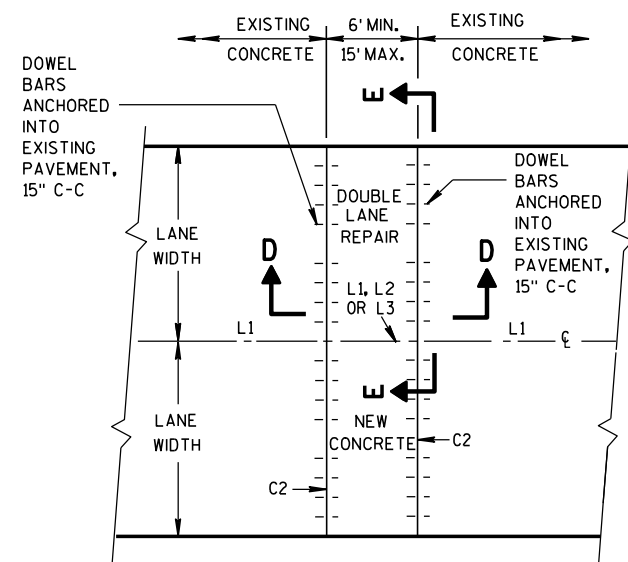
## SECTION C-C SAWED LONGITUDINAL JOINT



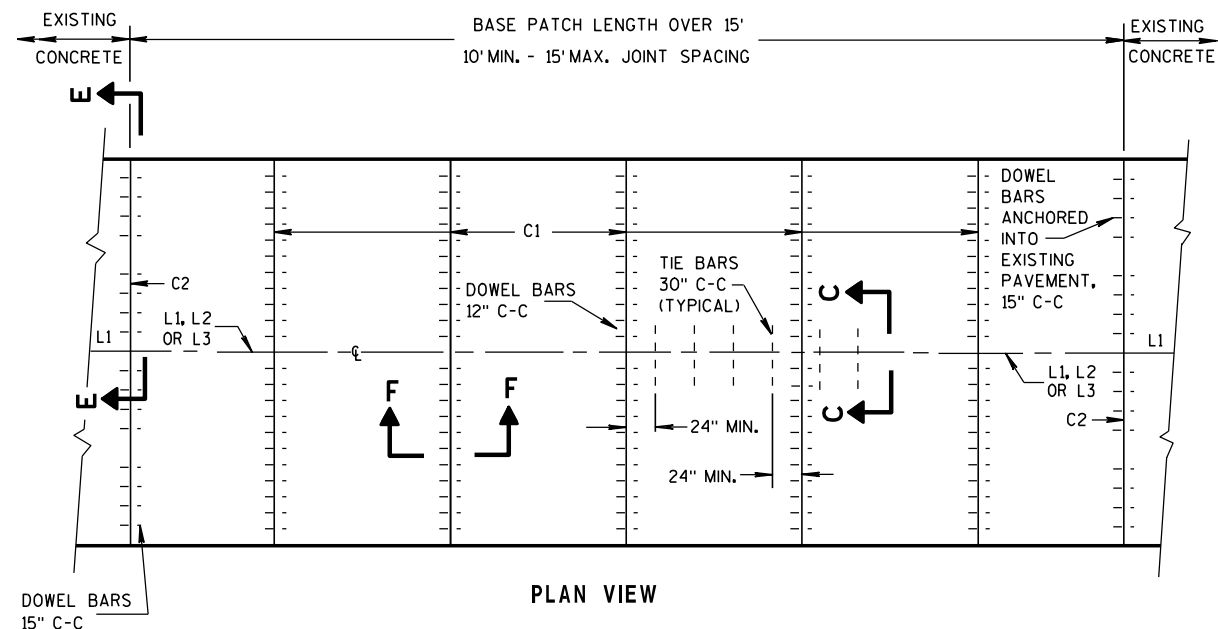
## SECTION F-F CONTRACTION JOINT



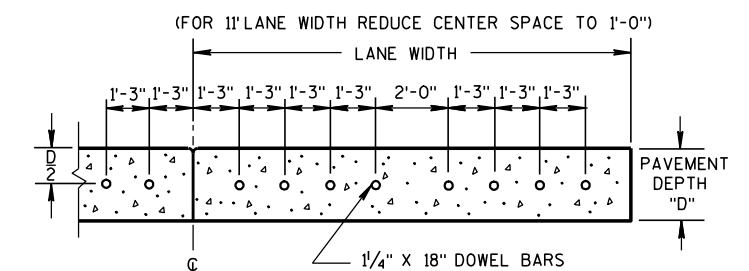
## SECTION D-D



## PLAN VIEW MULTI-LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



## PLAN VIEW MULTI-LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH



## SECTION E-E SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

## GENERAL NOTES

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE BASE PATCHES OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

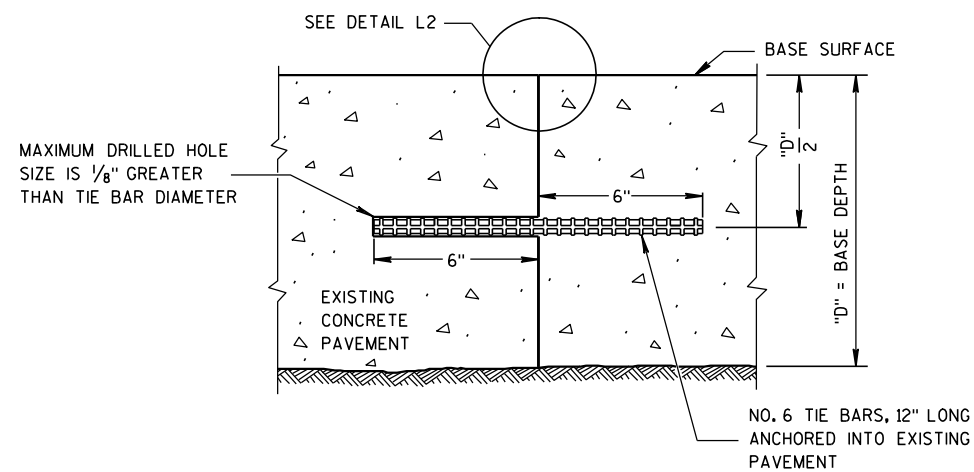
DO NOT SEAL OR FILL JOINTS.

ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 24 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

- APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

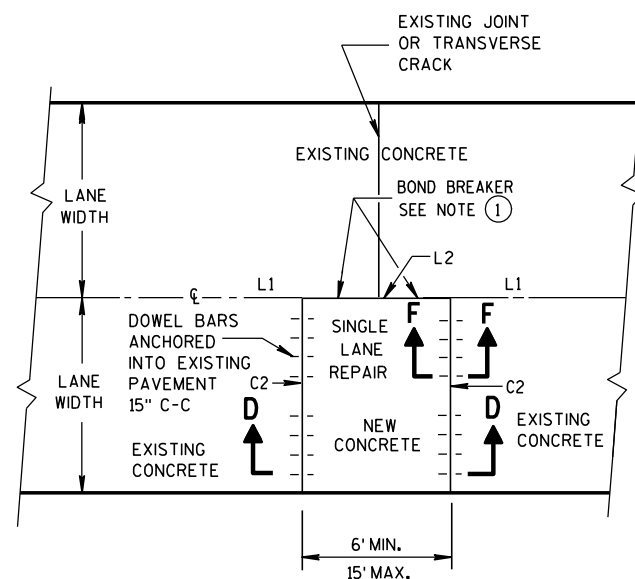




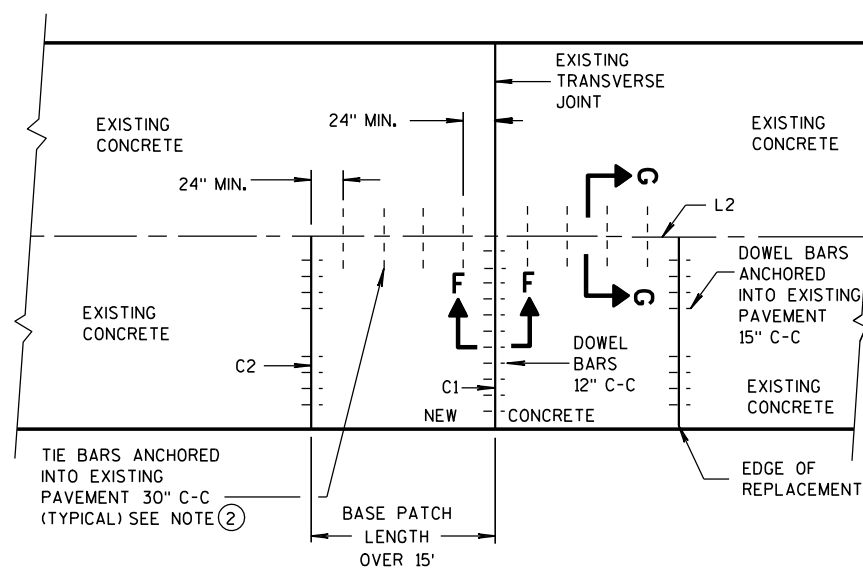
SECTION G-G  
TIE BARS ANCHORED  
INTO EXISTING PAVEMENT

## GENERAL NOTES

- ① USE AN ENGINEER-APPROVED BOND BREAKER FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.
- ② WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES AND TO SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.



PLAN VIEW  
SINGLE LANE CONCRETE BASE PATCH  
15' MAXIMUM LENGTH



PLAN VIEW  
SINGLE LANE CONCRETE BASE PATCH  
GREATER THAN 15' IN LENGTH

## BASE PATCHING CONCRETE

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DEPARTMENT OF TRANSPORTATION

APPROVED

12-11-2009  
DATE

FHWA

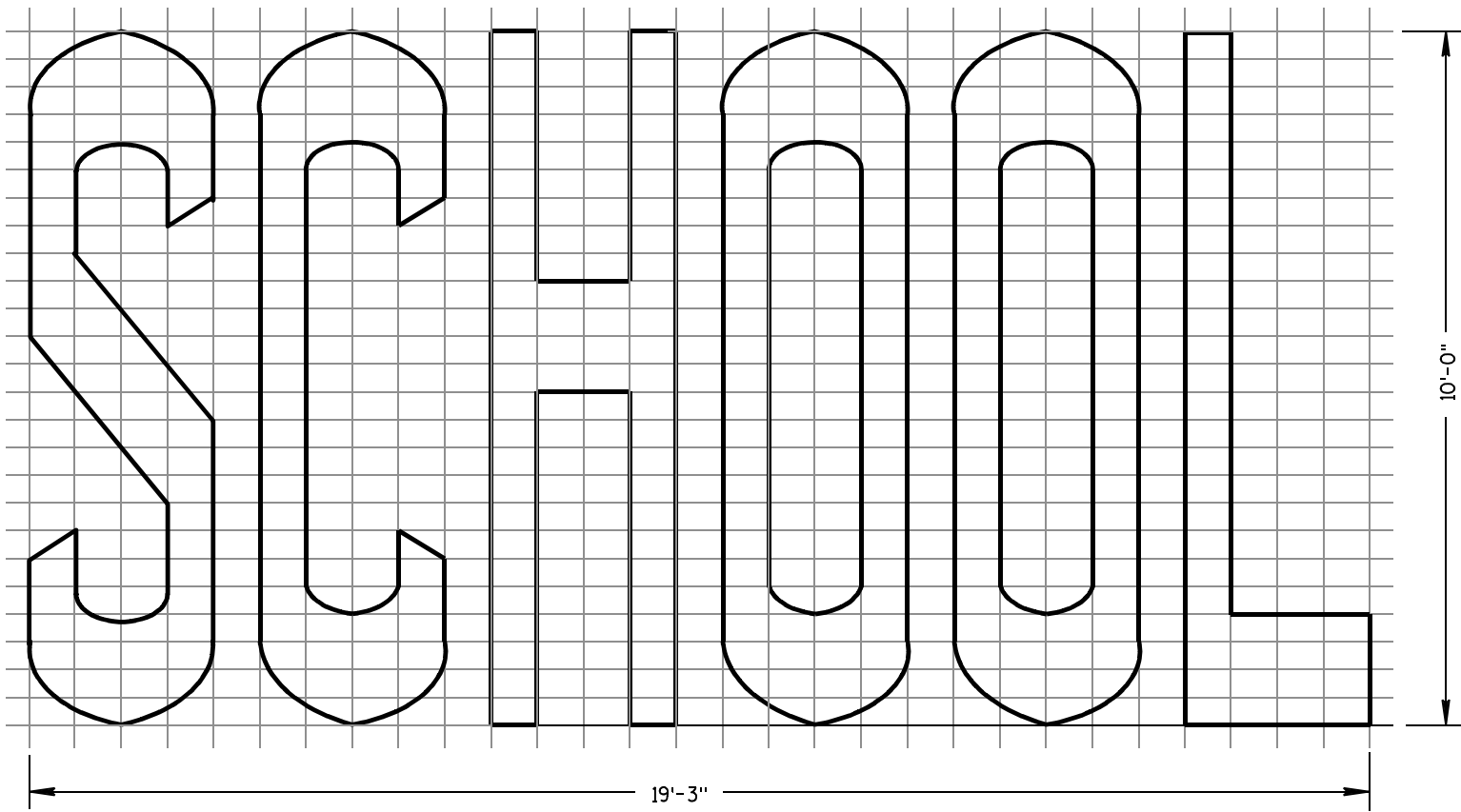
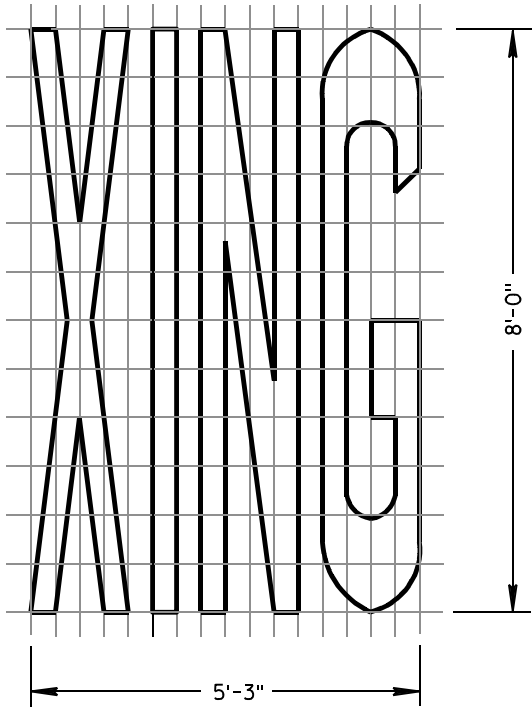
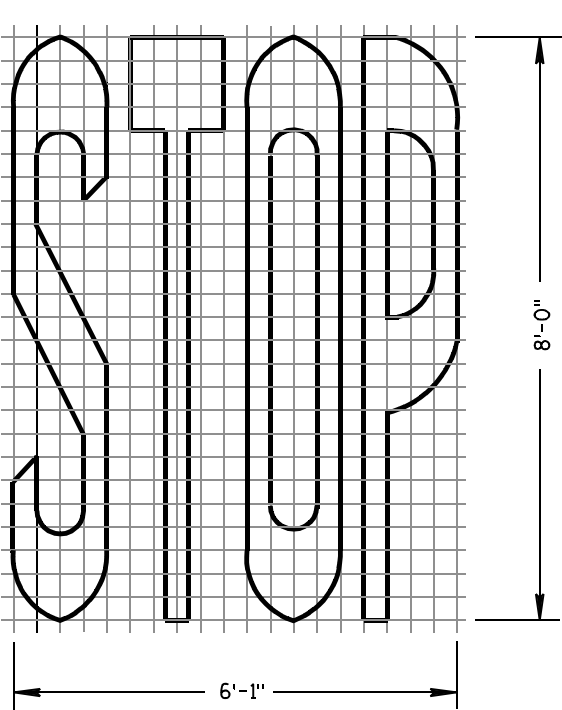
/S/ Deb Bischoff  
PAVEMENT POLICY & DESIGN ENGINEER



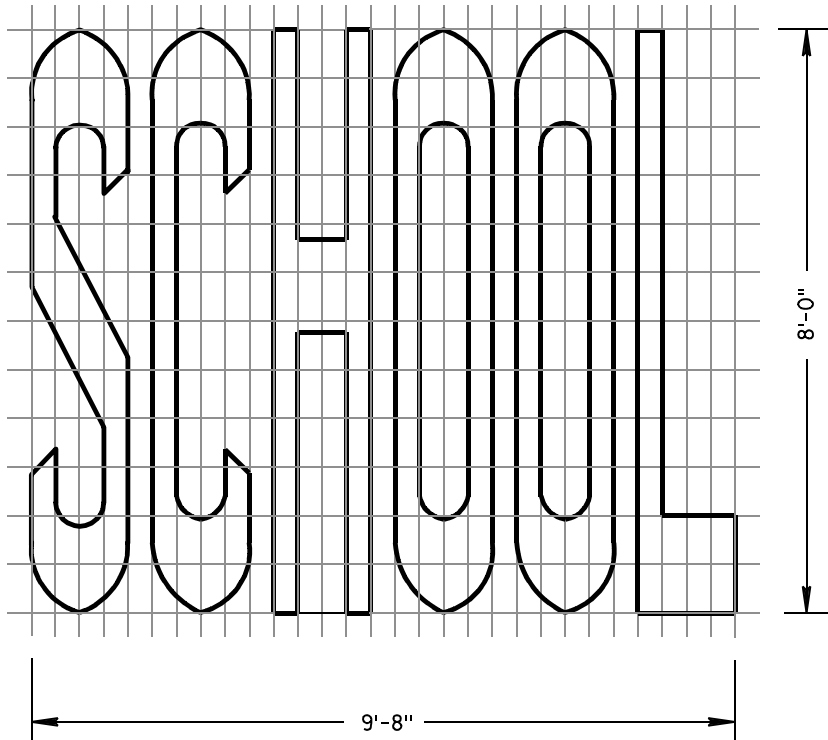
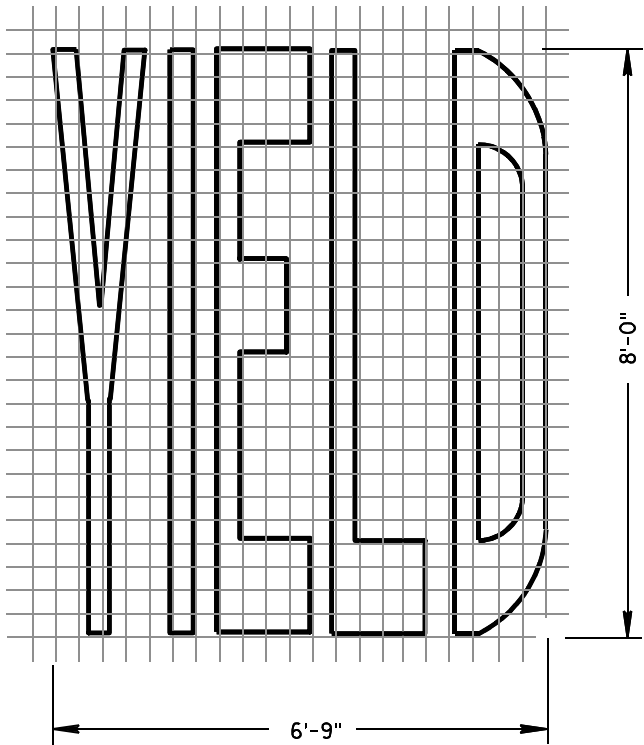
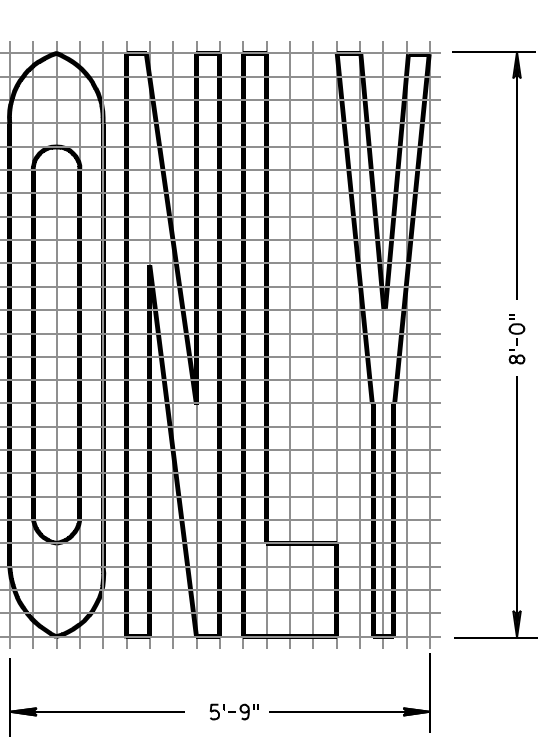
GENERAL NOTES

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

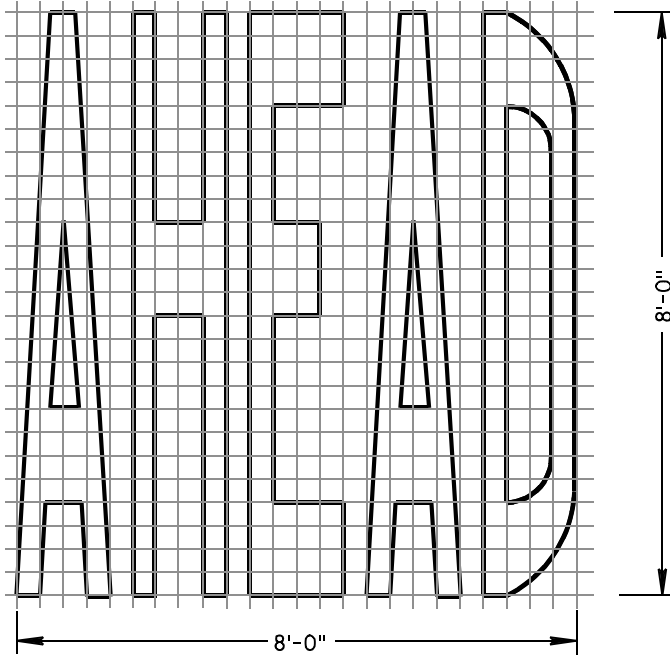
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



TWO-LANE



SINGLE-LANE



PAVEMENT MARKING WORDS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

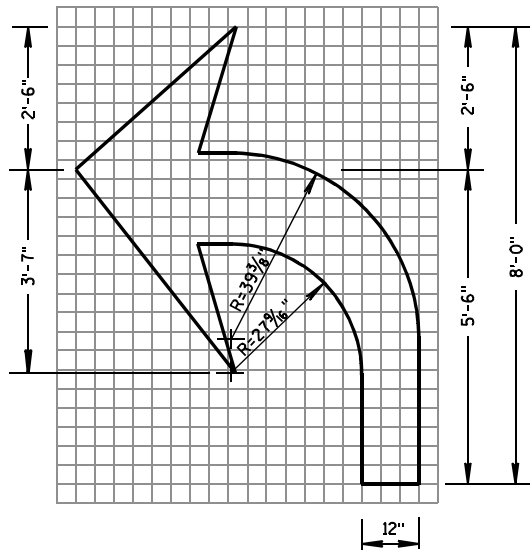
APPROVED

7-1-11  
DATE

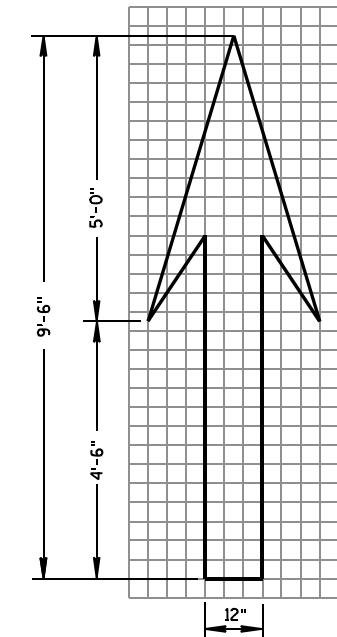
/S/ Thomas N. Notbohm  
STATE TRAFFIC ENGINEER OF DESIGN

FHWA

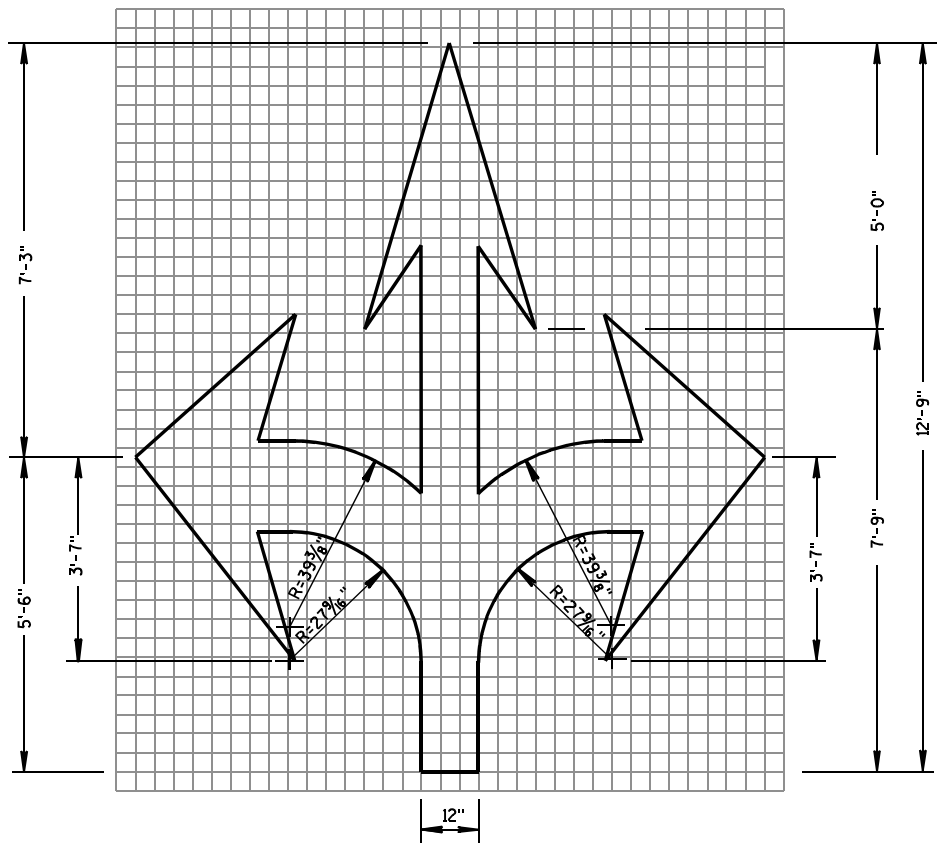




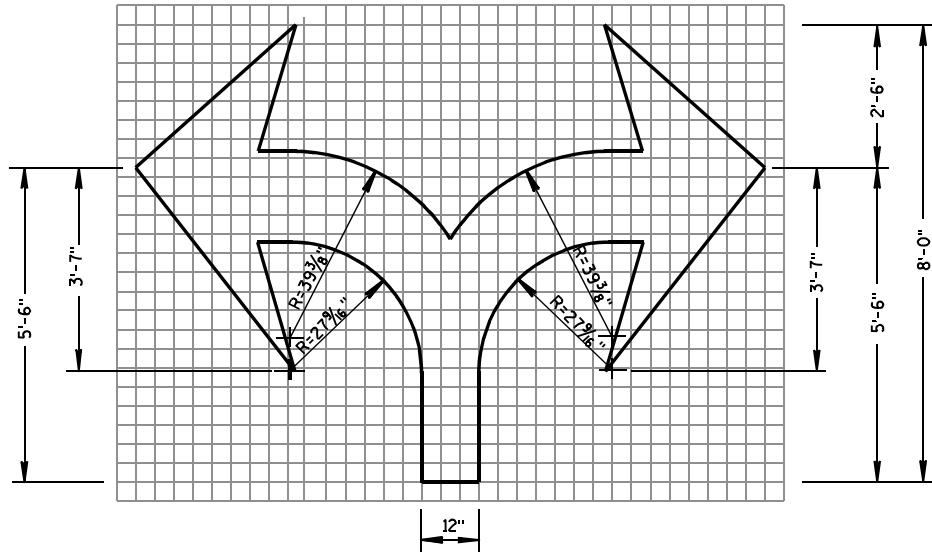
TYPE 2



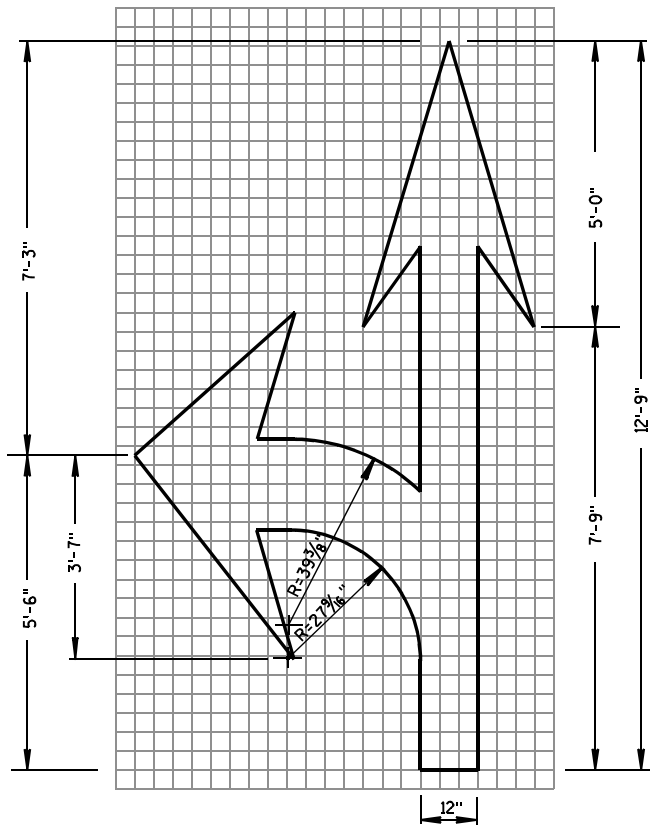
TYPE 1



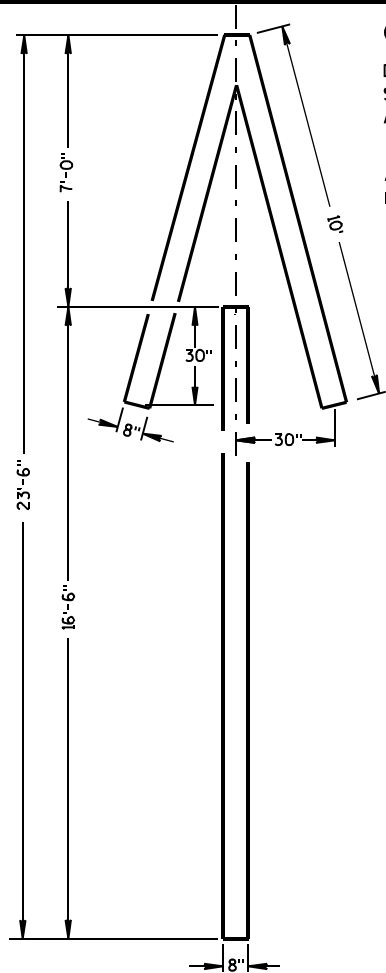
TYPE 6



TYPE 7



TYPE 3

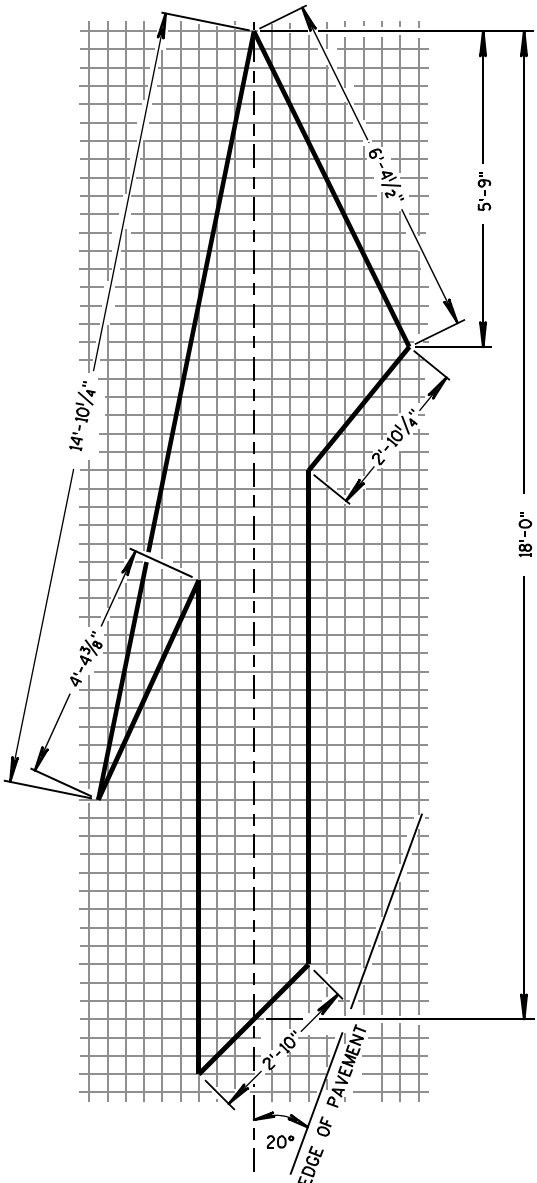


TYPE 4

GENERAL NOTES

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

ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



TYPE 5 LANE DROP ARROW

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

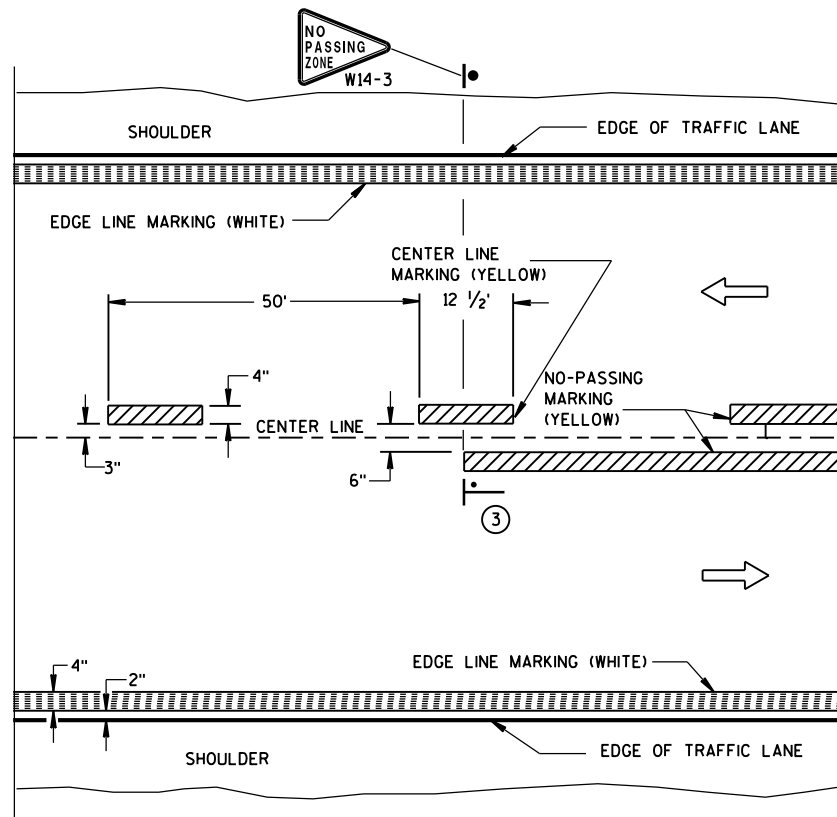
APPROVED

7/1/11  
DATE

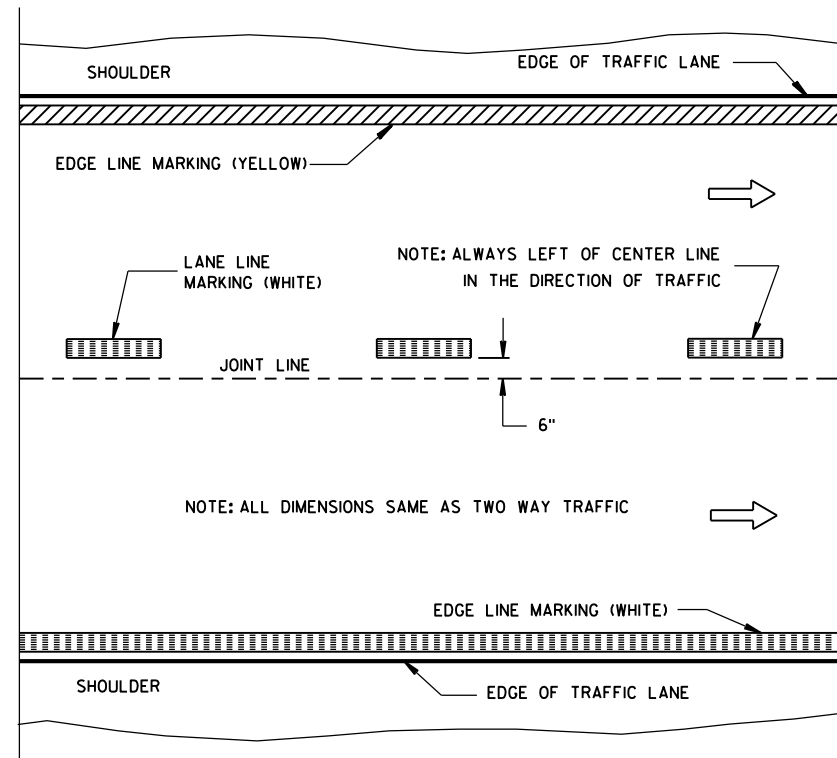
/S/ Thomas N. Notbohm  
STATE TRAFFIC ENGINEER OF DESIGN

FHWA



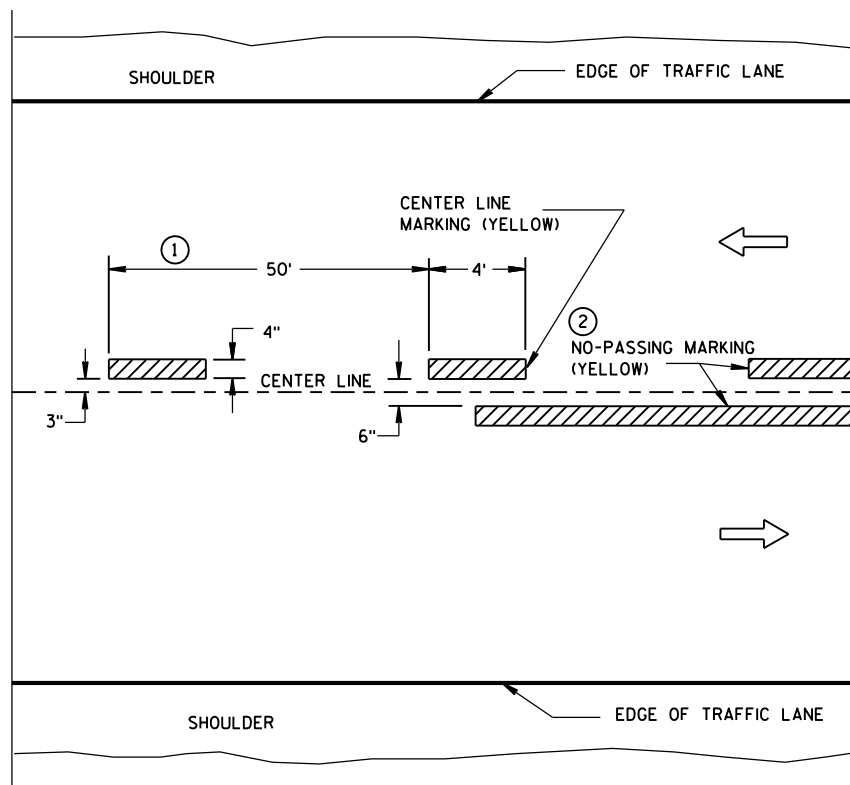


TWO WAY TRAFFIC

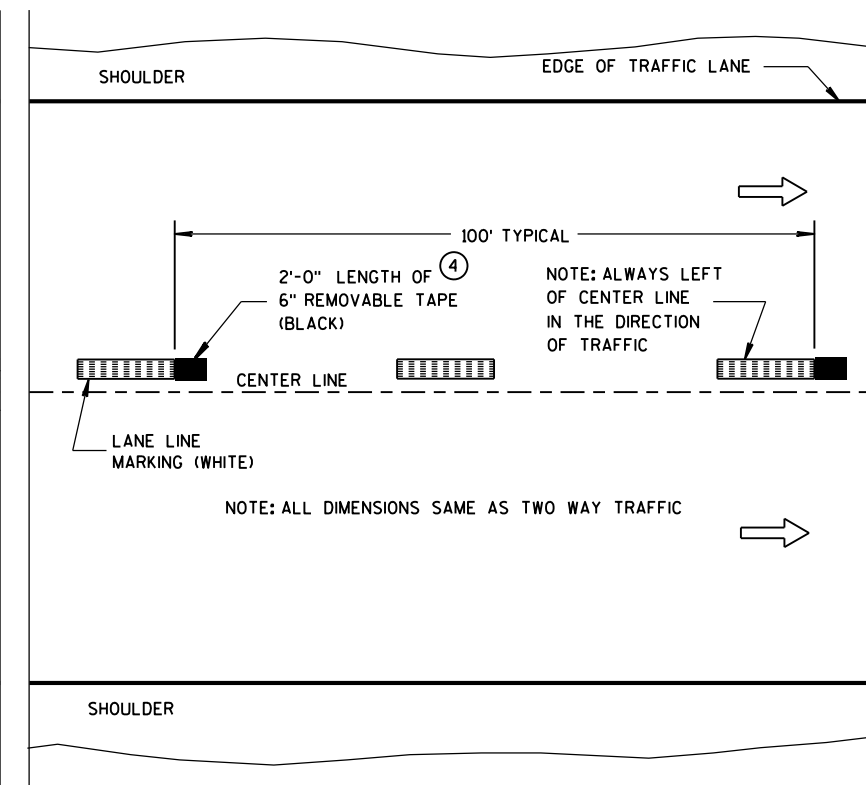


ONE WAY TRAFFIC

## PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING  
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

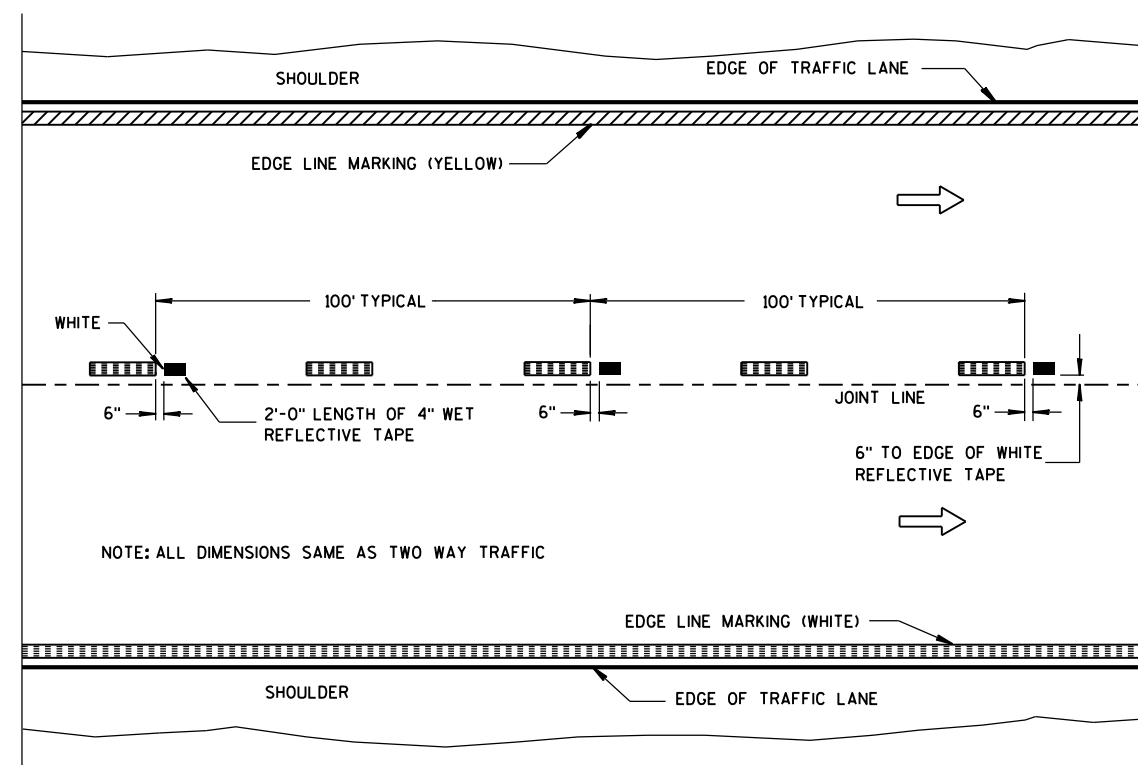
## GENERAL NOTES

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

- 1 HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- 2 NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- 3 NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- 4 CONCRETE ONLY.

## NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO  
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

## LEGEND

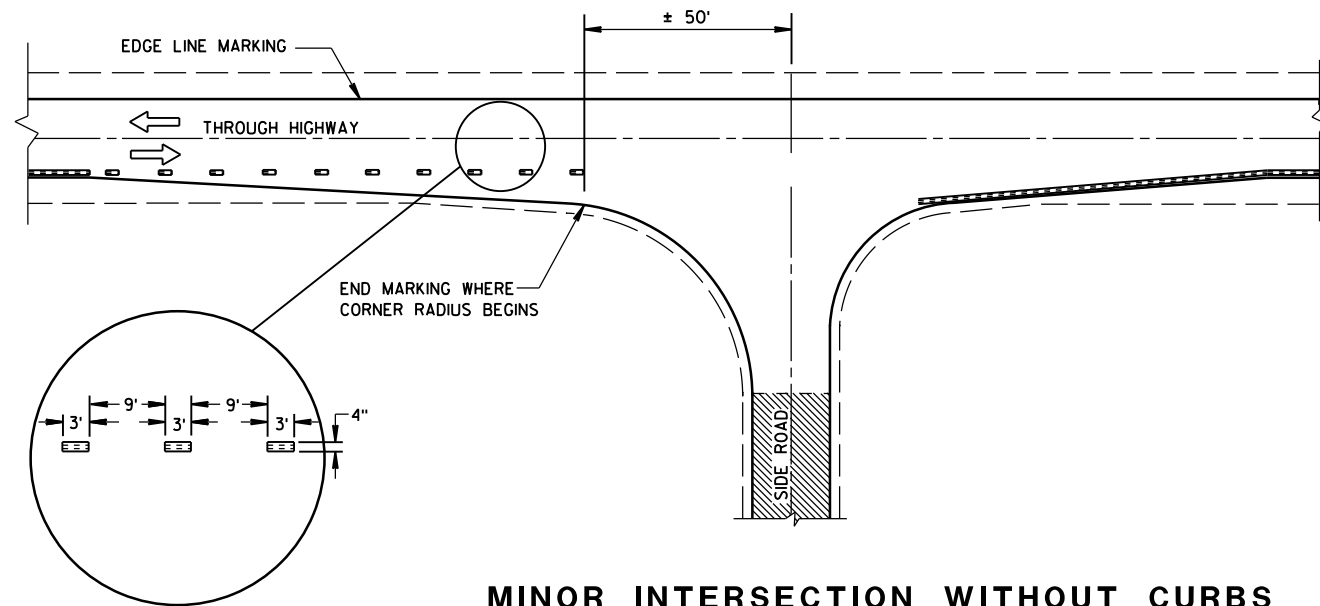
- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING  
(MAINLINE)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
10-1-2012 /S/ Travis Feltes  
DATE STATE TRAFFIC ENGINEER OF DESIGN  
FHWA

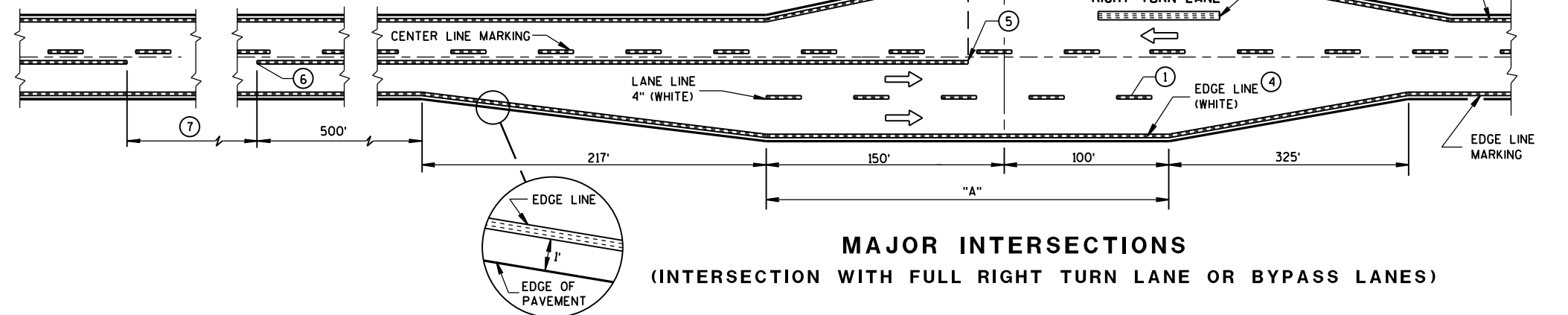




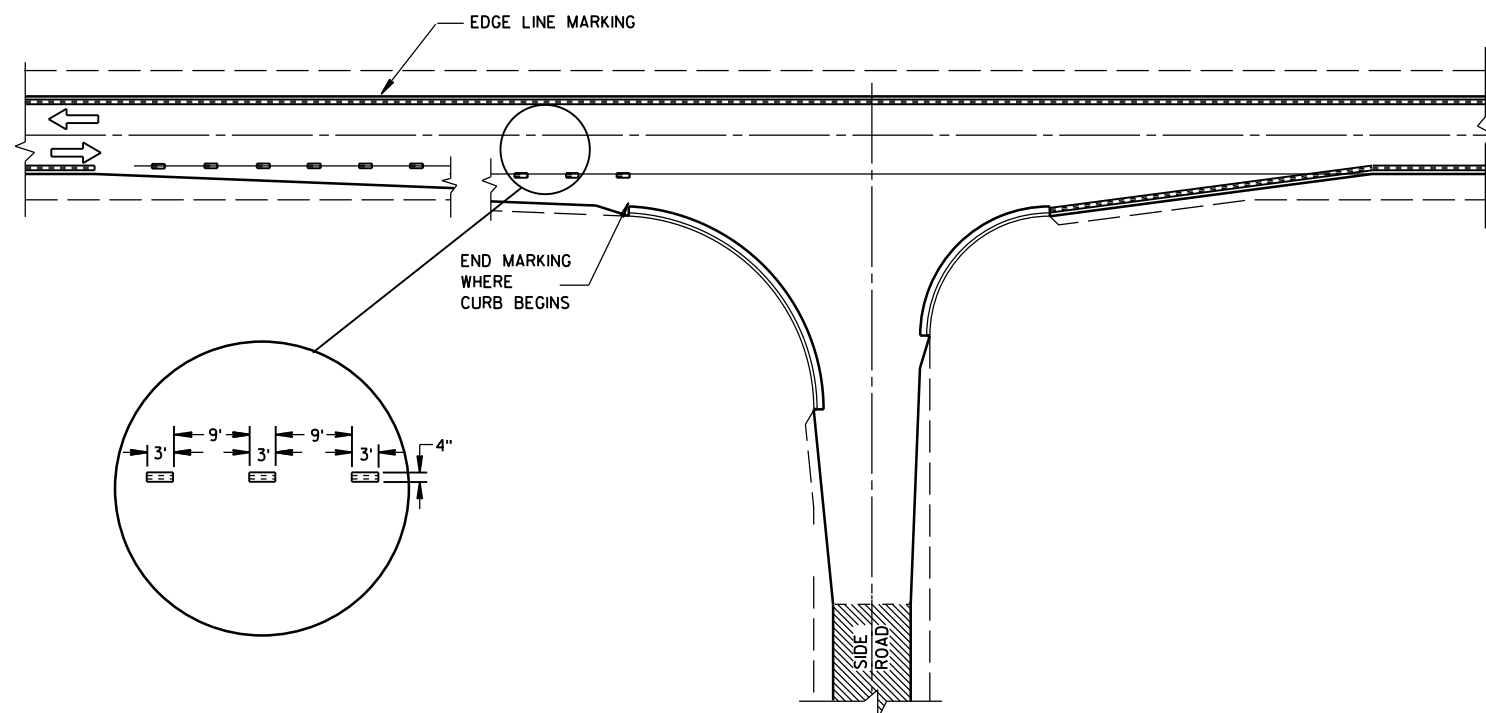
**MINOR INTERSECTION WITHOUT CURBS**

⑦

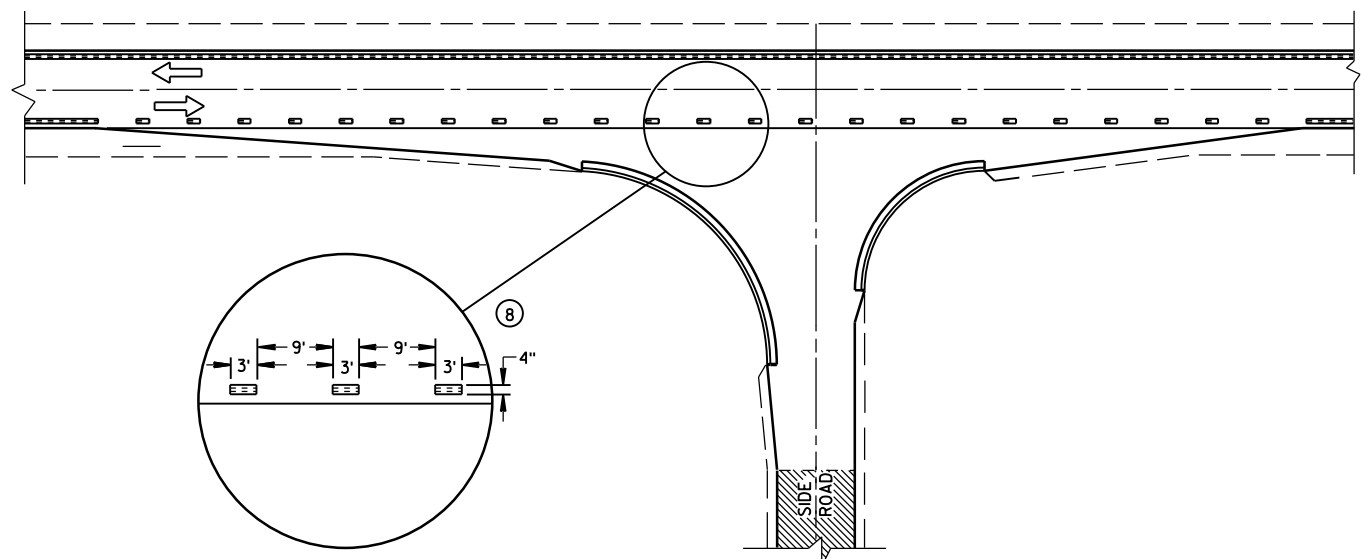
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



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



**MINOR INTERSECTION WITH CURBS**  
(TYPICAL MARKING)

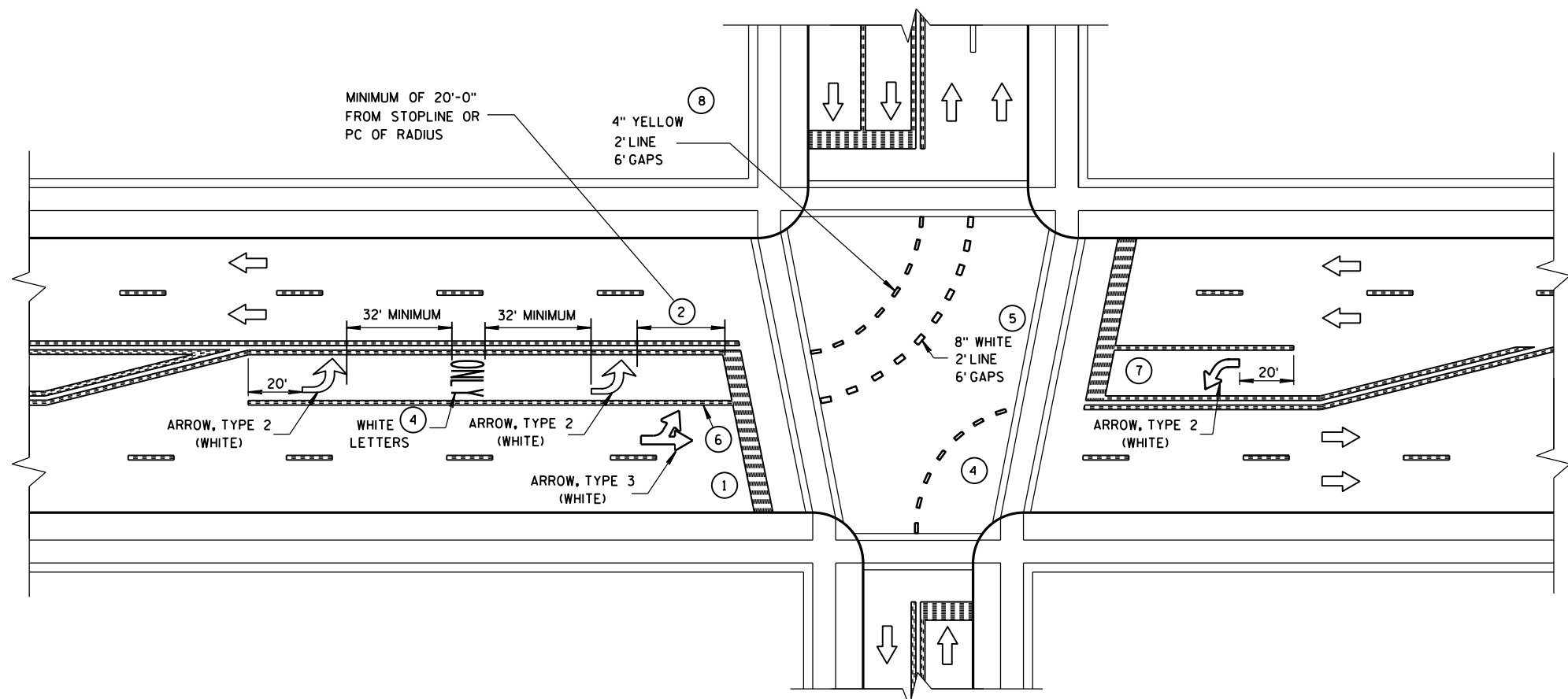


**MINOR INTERSECTION WITH CURBS**  
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

## GENERAL NOTES

- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
  - ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
  - ③ ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
  - ④ THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.
  - ⑤ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
  - ⑥ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
  - ⑦ IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.
  - ⑧ 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ARROW SYMBOL ( → ) SHOWS DIRECTION OF TRAVEL

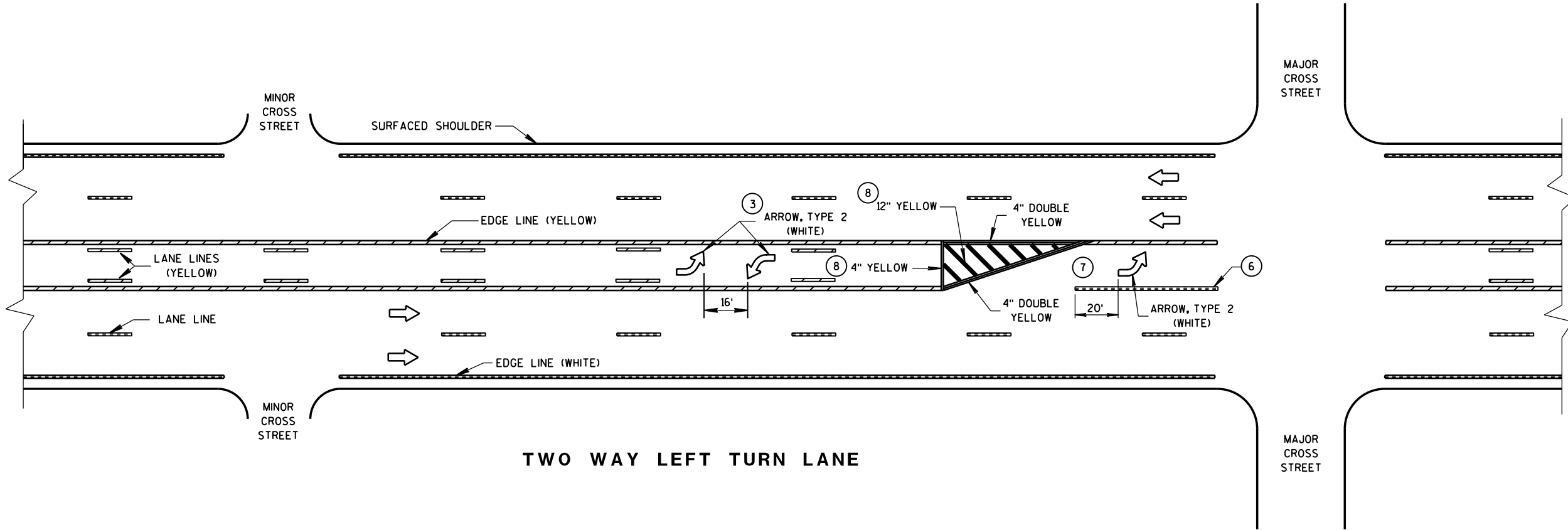




GENERAL NOTES

- ① STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES, AS APPROVED BY THE ENGINEER.
- ③ A SET OF ARROWS IS REQUIRED EVERY 400' OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ④ ADD EXTRA ARROW AND ONLY PER 160' OR WHEN ON A CURVE.
- ⑤ 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
- ⑥ 8" WHITE
- ⑦ ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108'.
- ⑧ REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

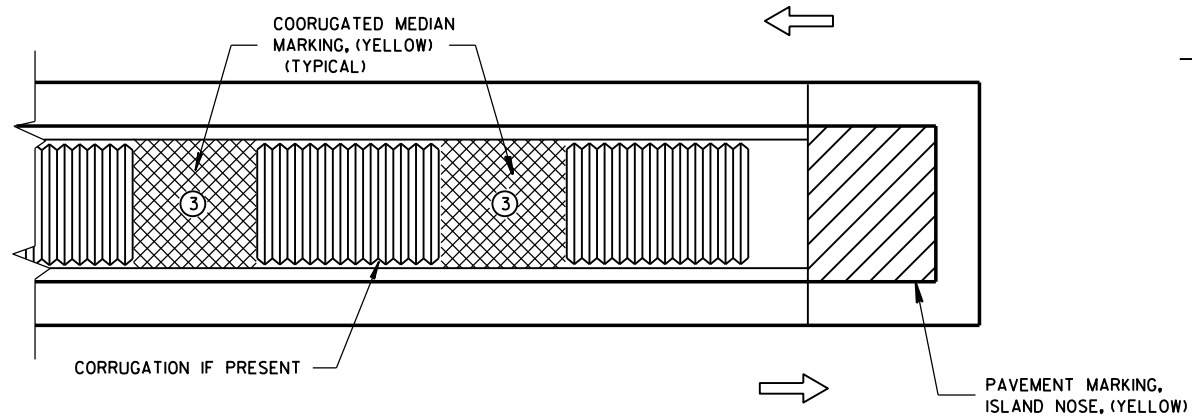
NOTE:  
ARROW SYMBOL ( ➡ )  
SHOWS DIRECTION OF TRAVEL



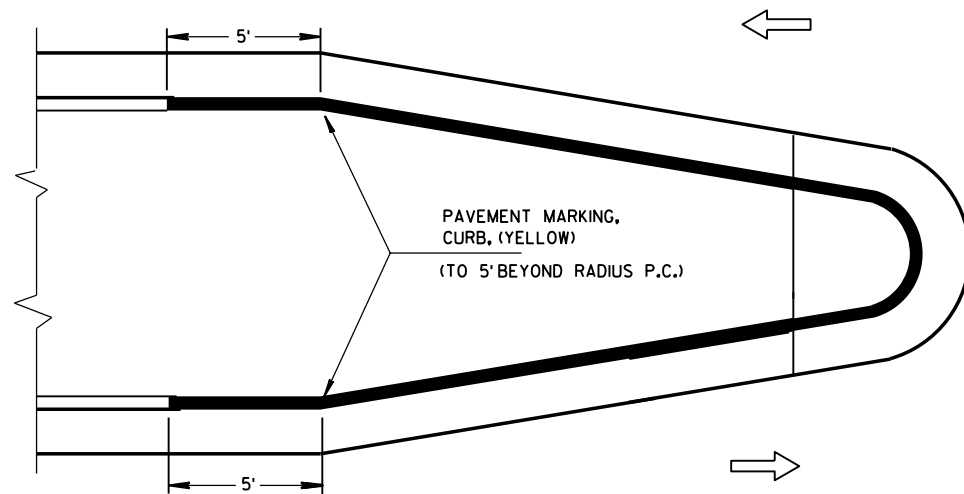
PAVEMENT MARKING  
(LEFT TURN LANE)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

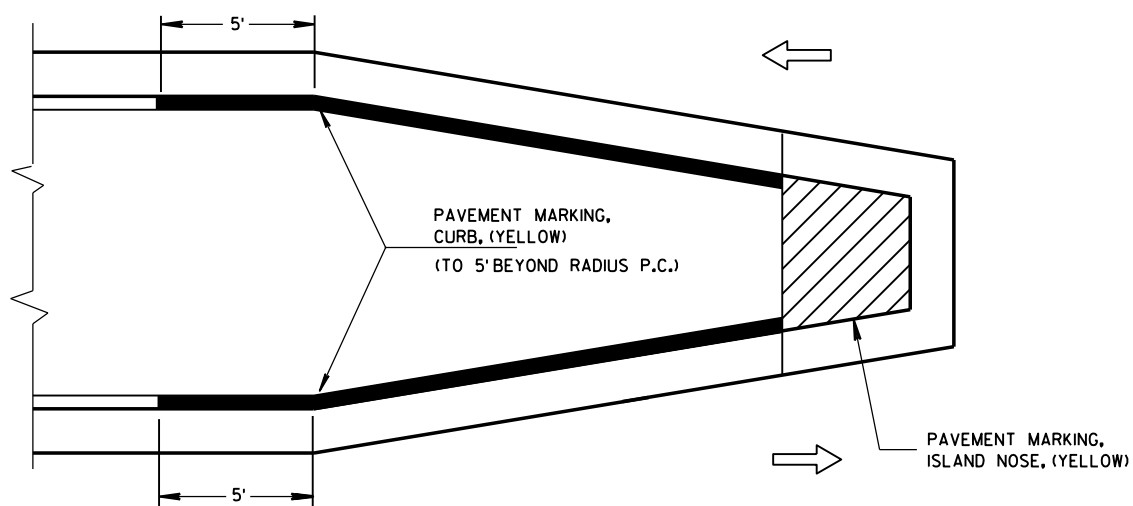




**MEDIAN ISLAND WITH SQUARE BLUNT NOSE**

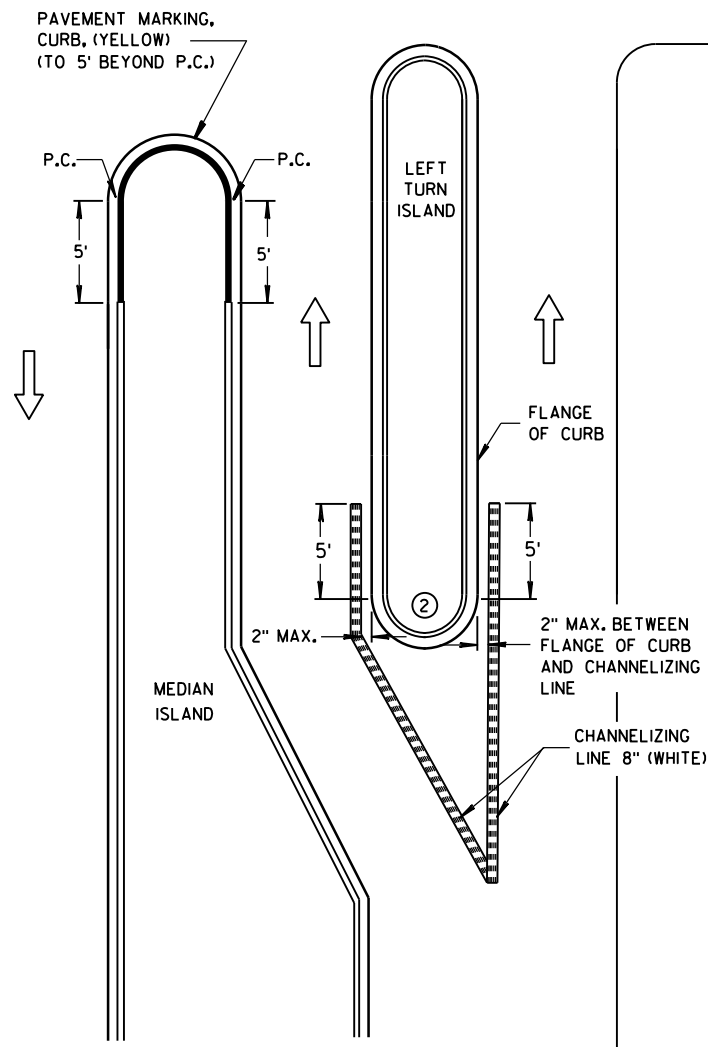


**MEDIAN ISLAND WITH ROUND BLUNT NOSE**



**MEDIAN ISLAND WITH SLOPED NOSE**

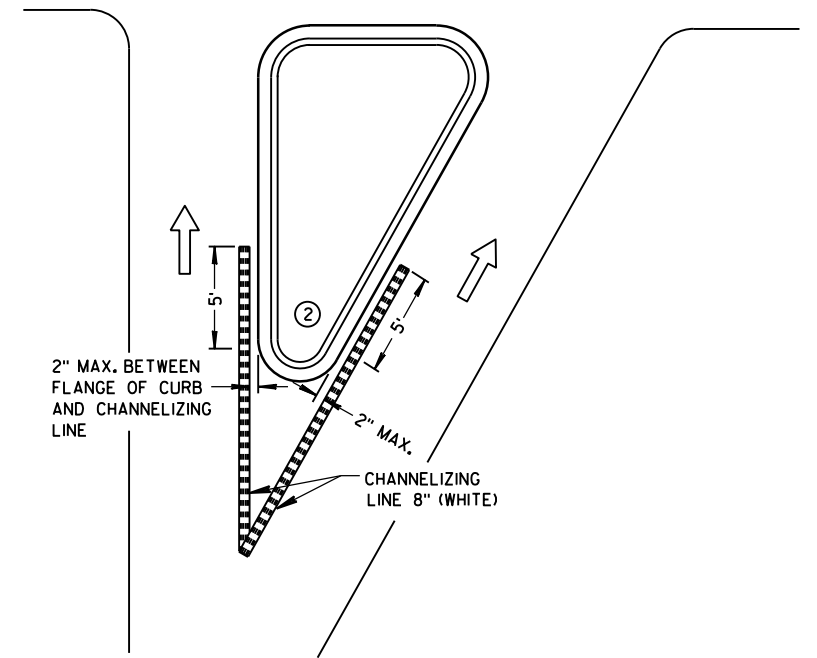
**TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS**



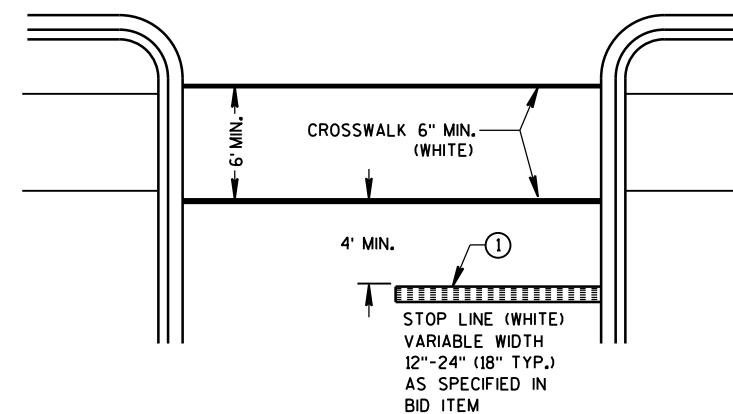
**LEFT TURN & MEDIAN ISLAND**

**GENERAL NOTES**

- ① STOP LINE IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
- ③ WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



**RIGHT TURN ISLAND**



**STOP LINE AND CROSSWALK**

**LEGEND**

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL


**PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION




TWO-LANE ROADWAY


**SYMBOLS**



WORK AREA



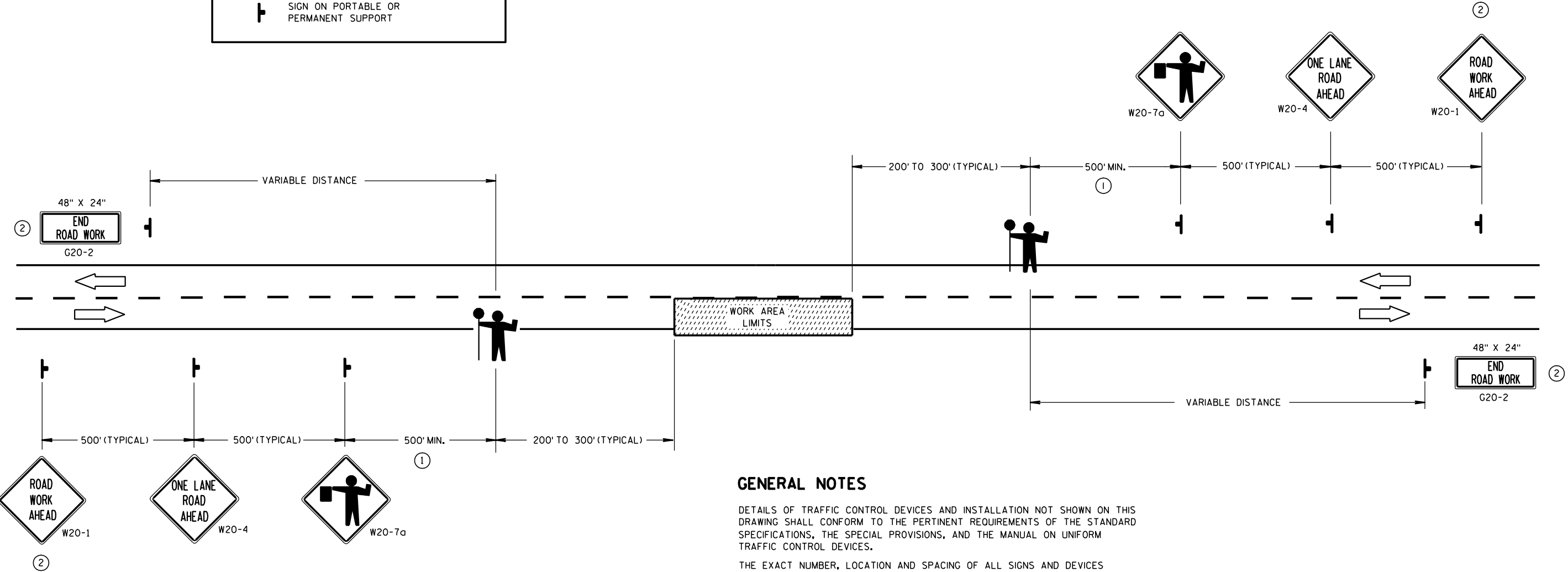
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



SIGN ON PORTABLE OR PERMANENT SUPPORT



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



GENERAL NOTES

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

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

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

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.

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, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

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

- ① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

**TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)**

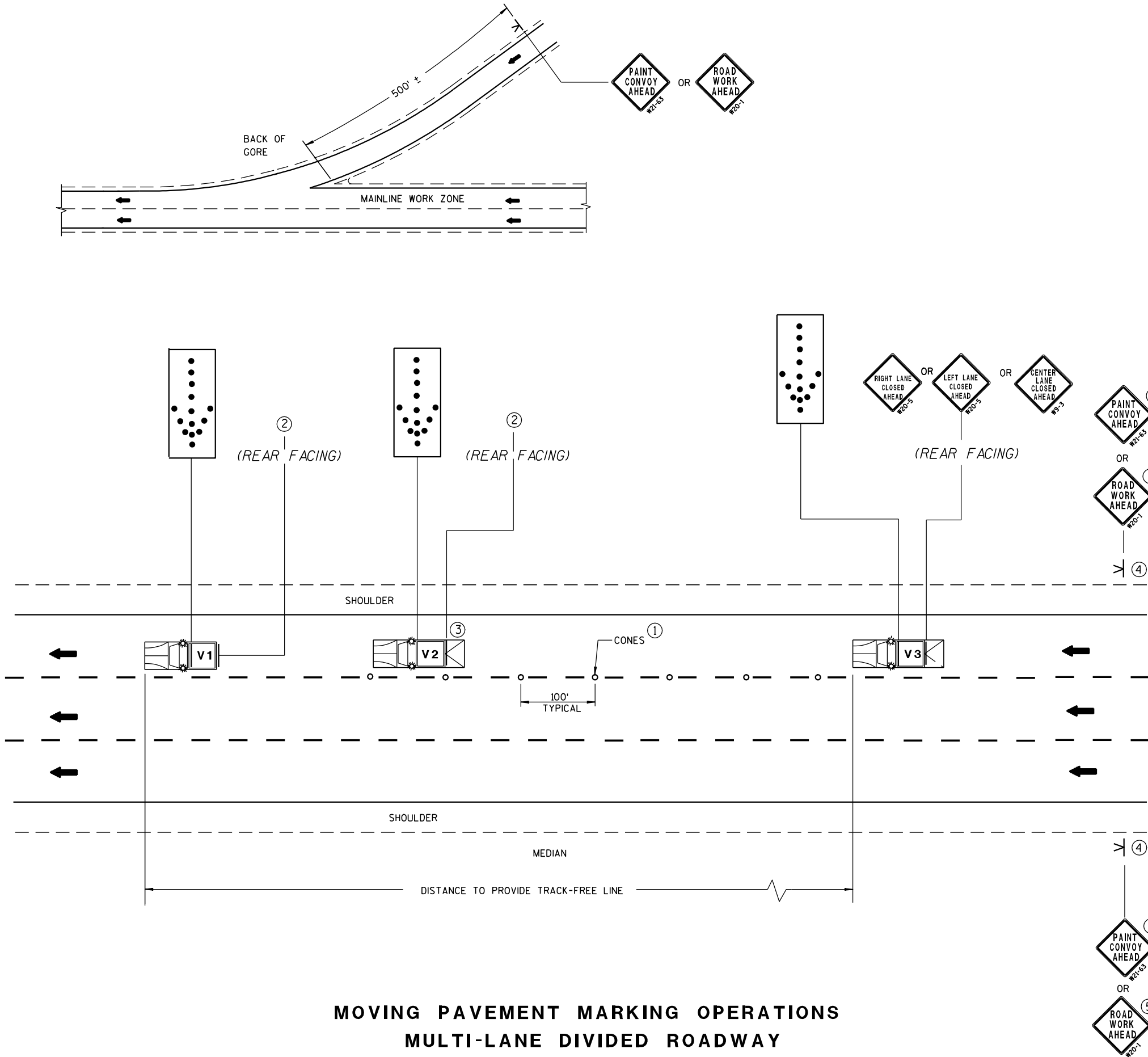
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
9/5/06  
DATE

/S/ Thomas N. Notbohm  
STATE TRAFFIC ENGINEER OF DESIGN

FHWA





MOVING PAVEMENT MARKING OPERATIONS  
MULTI-LANE DIVIDED ROADWAY

GENERAL NOTES

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

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.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT 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 AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR EDGELINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

- ① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- ② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.
- ③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.
- ④ SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.
- ⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

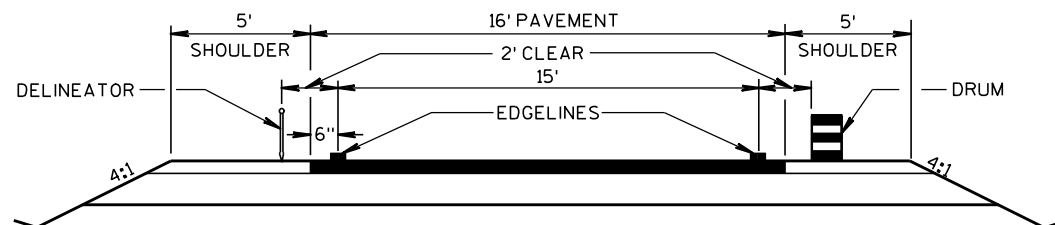
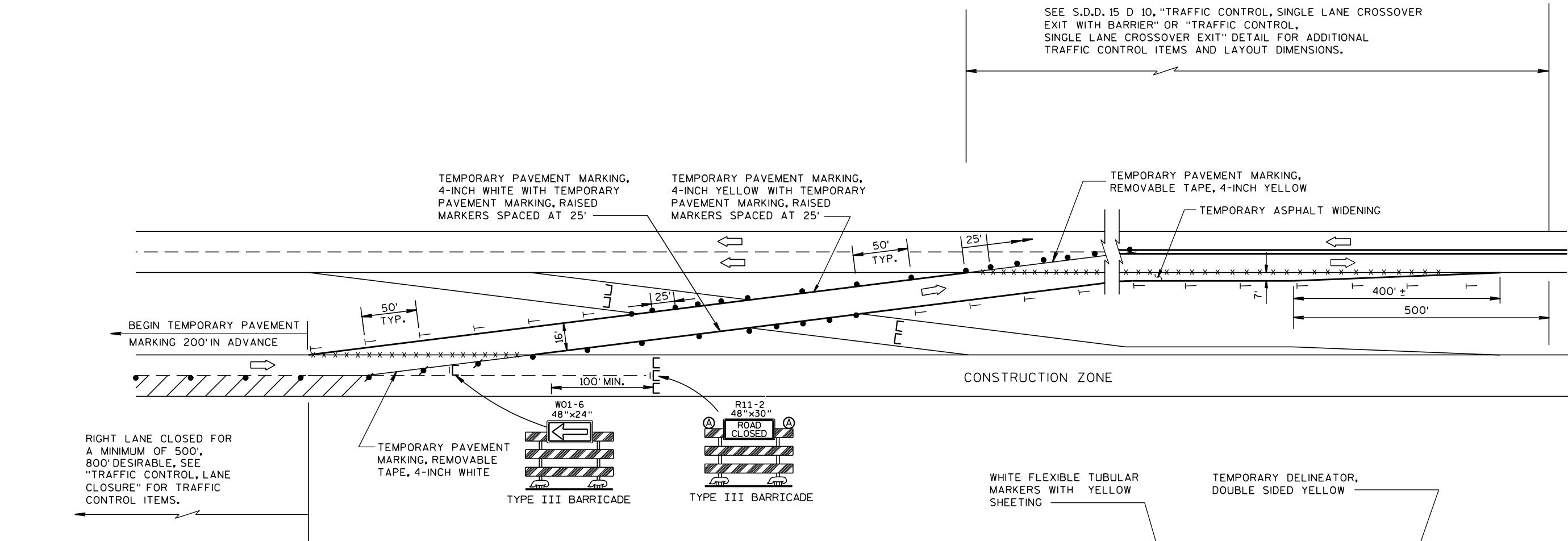
- V1** LEAD VEHICLE
- V2** SHADOW VEHICLE
- V3** TRAIL VEHICLE WITH TMA
- TMA** TRUCK-MOUNTED ATTENUATOR
- SIGN ON PORTABLE SUPPORT**
- DIRECTION OF TRAVEL**
- CONES**
- FLASHING ARROW PANEL (MERGE)**

MOVING PAVEMENT MARKING  
OPERATION  
MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
12/6/2011 /S/ Thomas N. Notbohm  
DATE STATE TRAFFIC ENGINEER OF DESIGN  
FHWA





### LEGEND

- / □ 8' TYPE III BARRICADE WITHOUT/WITH ATTACHED SIGN
- ⚡ DRUM WITH WARNING LIGHTS, TYPE C
- DRUM
- TEMPORARY DELINEATOR (STEEL POST W/SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE PAINT
- Ⓐ WARNING LIGHT, TYPE A
- \*\*\*\*\* REMOVING PAVEMENT MARKINGS
- TEMPORARY DELINEATOR (DOUBLE SIDED)
- FLEXIBLE TUBULAR MARKER AND BASE
- ➡ DIRECTION OF TRAFFIC

### 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 PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

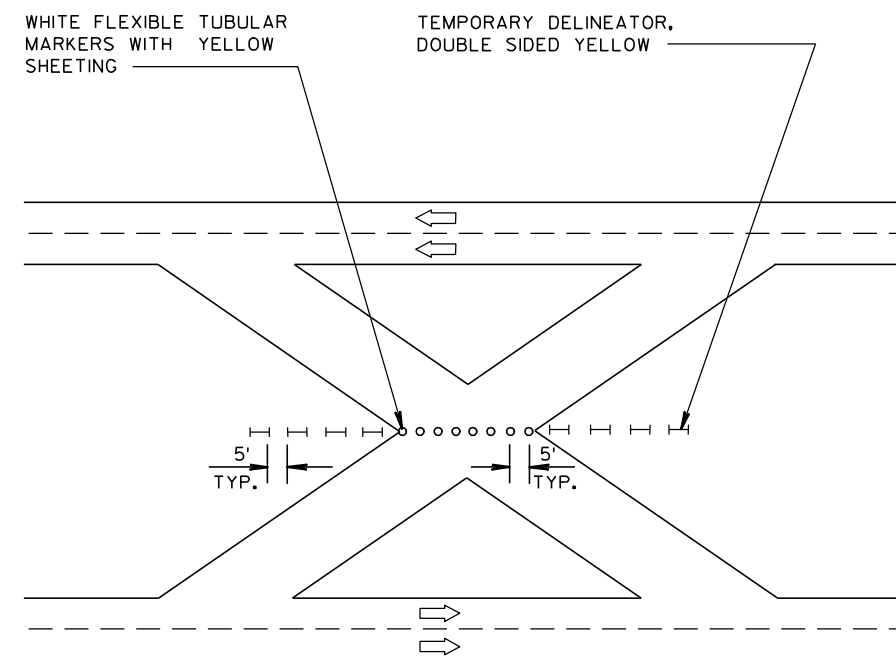
TEMPORARY PAVEMENT MARKING REMOVABLE TAPE SHALL BE USED WHEN CROSSING PERMANENT ROADWAY SURFACES THAT WILL REMAIN AFTER USE OF CROSSOVER AND TEMPORARY PAVEMENT MARKING WHERE USED.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH 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.

REVERSE DEVICES WHEN OTHER LEG OF CROSSOVER IS IN USE.



PROTECTION OF CROSSOVER NOT IN USE  
WHEN CONSTRUCTION IS NOT TAKING PLACE

**TRAFFIC CONTROL,  
SINGLE LANE CROSSOVER**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

10-22-96  
DATE

FHWA

/S/ Chester J. Spang  
STATE TRAFFIC ENGINEER



## LEGEND

- ⌚ POST WITH ATTACHED SIGN
- Ⓢ POST WITH ATTACHED SIGN IN DRUM
- ⚡ DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- ➡ ARROW BOARD
- ⌚ 8' TYPE III BARRICADE
- \*-x-\* REMOVING PAVEMENT MARKING
- ➡ DIRECTION OF TRAFFIC

## GENERAL NOTES :

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

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"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 "COVERED" OR "DOWNED" SIGNS.

- ① CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

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

## GENERAL NOTES CONTINUED:

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 7 CONTINUOUS DAYS AND NIGHTS.

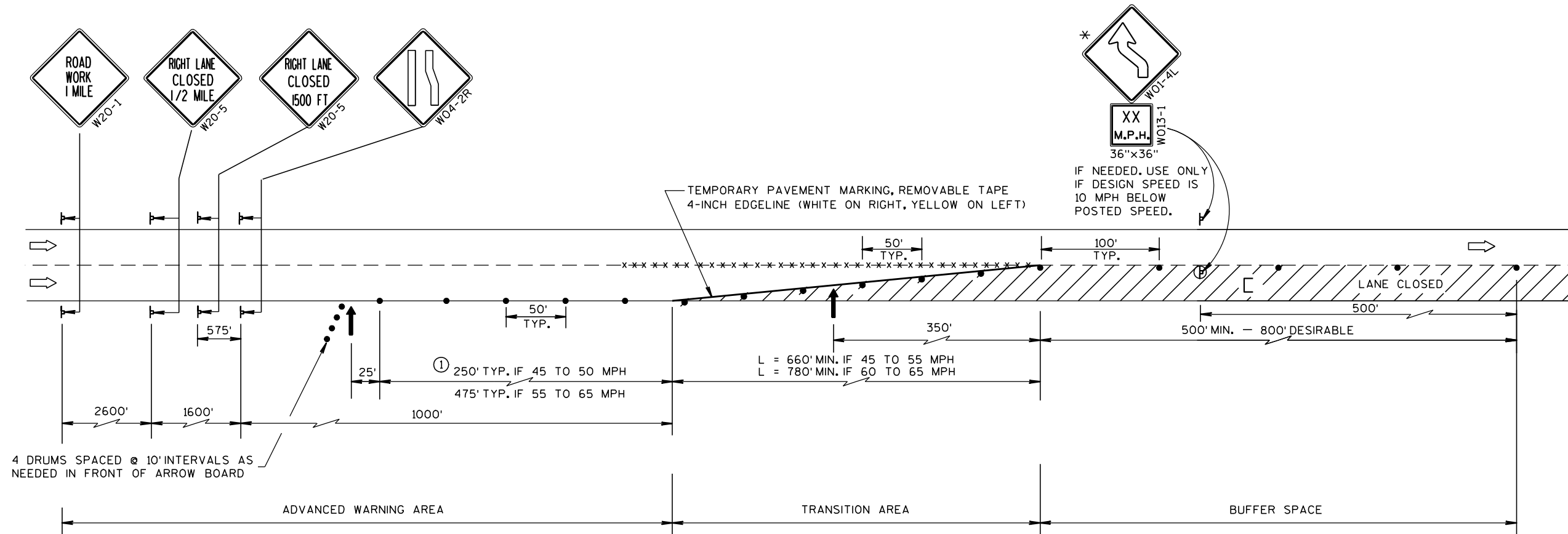
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1/4 MILE ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

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

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

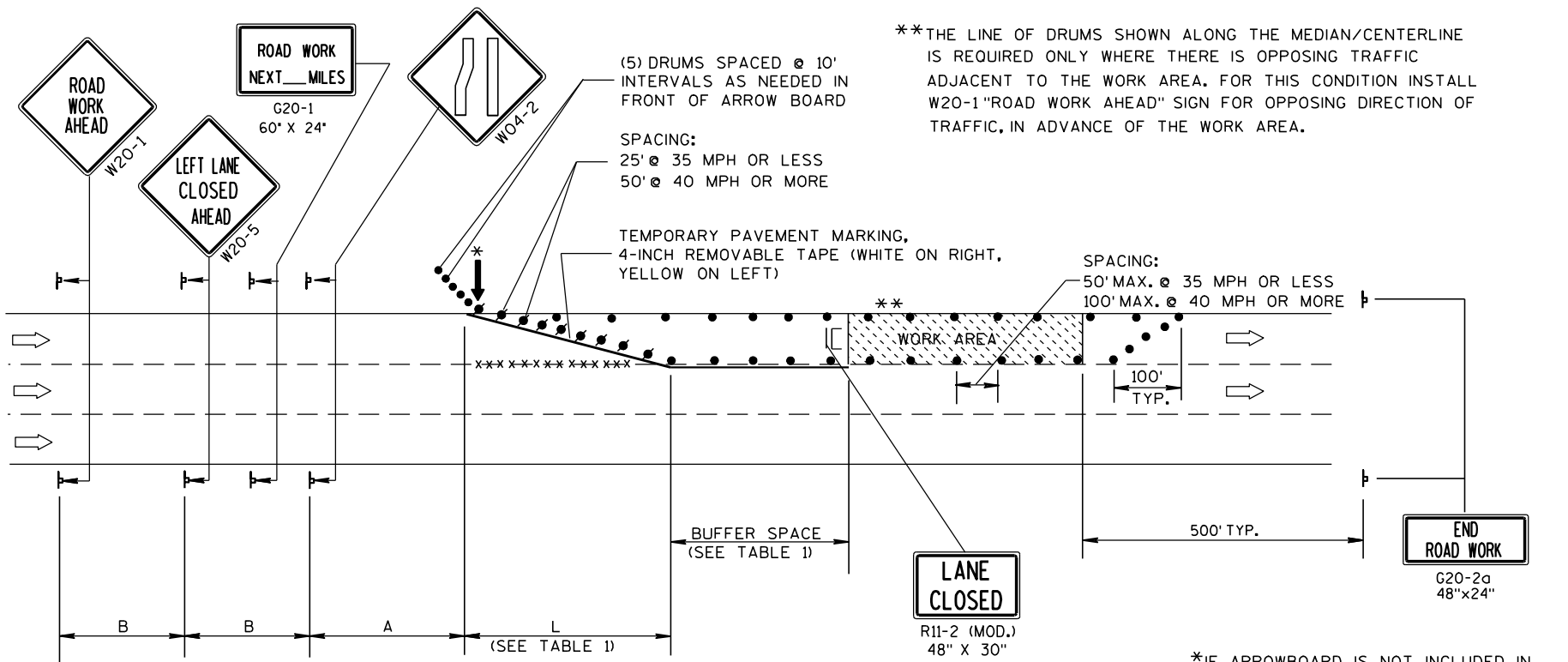


**TRAFFIC CONTROL,  
LANE CLOSURE, SPEEDS  
GREATER THAN 40 M.P.H.**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
8-7-95  
DATE /S/ Chester J. Spang  
DIRECTOR, OFFICE OF TRAFFIC  
FHWA





B=400' AT 25-30 MPH  
700' AT 35-40 MPH  
1000' AT 45-55 MPH

A=200' AT 25-30 MPH  
350' AT 35-40 MPH  
500' AT 45-55 MPH

TABLE 1  
TAPER AND BUFFER SPACE  
FOR 12' LANE WIDTH

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

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

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

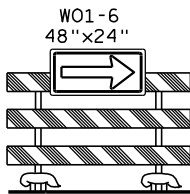
L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

(PLACE BARRICADE AND SIGN APPROX.  
EVERY 1000' ACROSS THE CLOSED LANE)

\*IF ARROWBOARD IS NOT INCLUDED IN  
MISCELLANEOUS QUANTITIES, SUBSTITUTE  
A TYPE III BARRICADE WITH W01-6 SIGN  
IN THE LANE CLOSURE TAPER.



LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- ⌵ POST MOUNTED SIGN
- ↑ ARROW BOARD
- IC/C TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- DIRECTION OF TRAFFIC FLOW
- x x x x REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

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

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

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

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

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

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

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

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

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

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

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

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

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

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

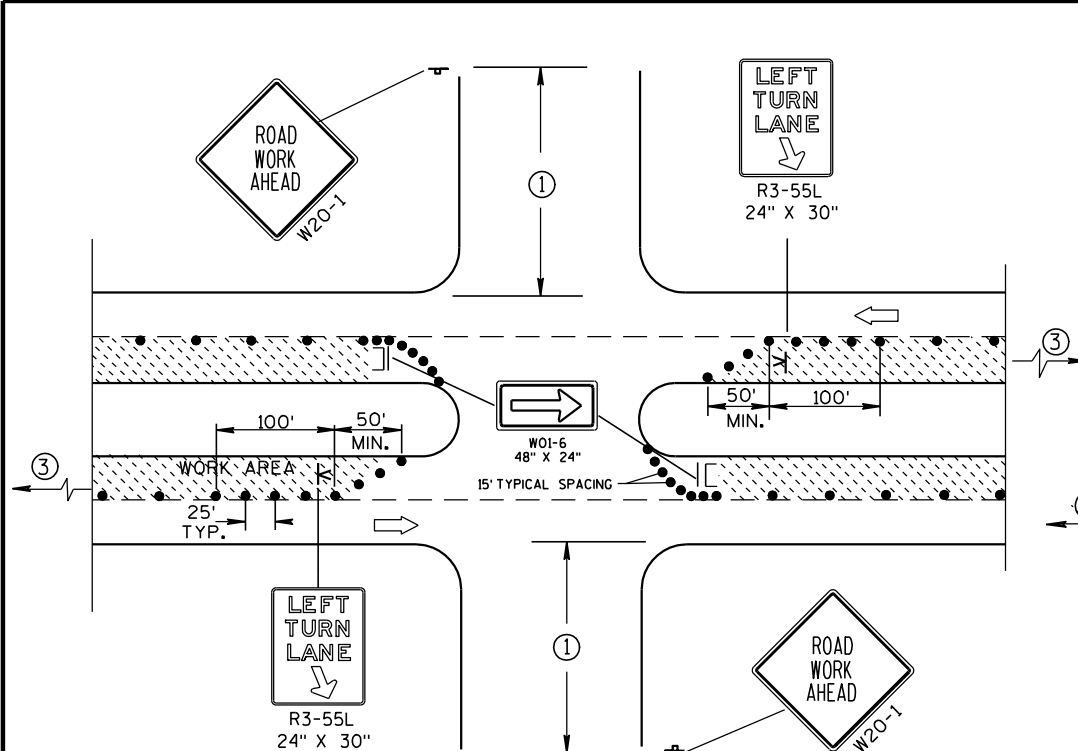
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

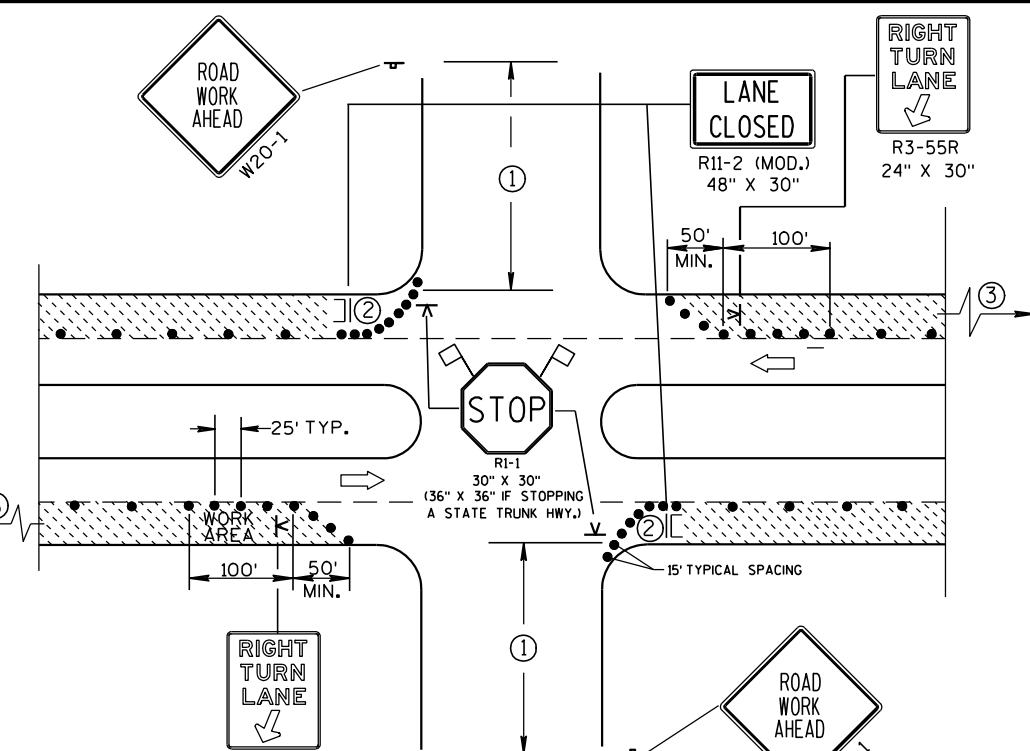
APPROVED  
5/23/00 /S/ Chester J. Spang  
DATE CHIEF SIGNS AND MARKING ENGINEER  
FHWA





DETAIL A  
FOR LEFT LANE CLOSURE AT  
INTERSECTION OR MEDIAN OPENING

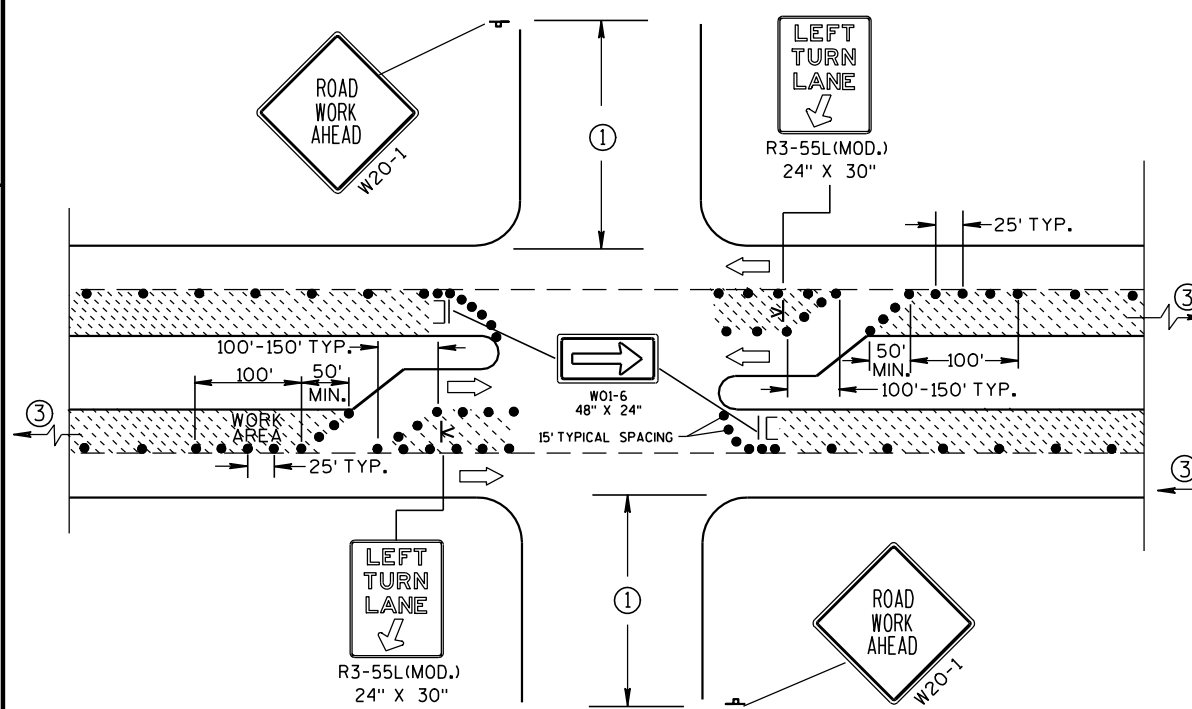
PROVIDE TURN LANES AT  
INTERSECTIONS WHENEVER  
STAGING OF WORK ALLOWS.  
TAPER AND TURN LANE  
LENGTHS BASED ON FIELD  
CONDITIONS AS APPROVED  
BY THE ENGINEER.



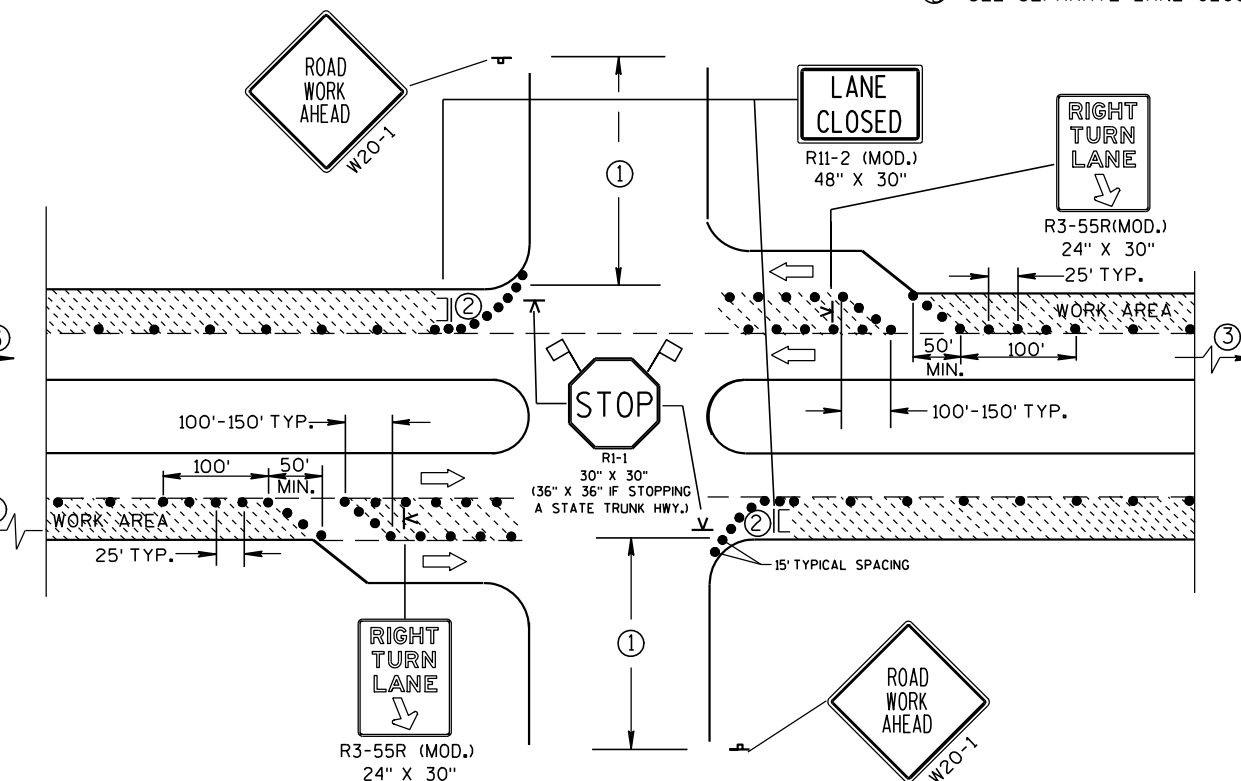
DETAIL B  
FOR RIGHT LANE CLOSURE  
AT INTERSECTION

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 SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.
- ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.
- SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.
- ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
- CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.
- BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.
- ① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.  
350' IF 35-40 MPH.  
200' IF 25-30 MPH.
  - ② ALSO USE BARRICADE AND 15' TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.
  - ③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C  
FOR LEFT LANE CLOSURE AT INTERSECTION OR  
MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D  
FOR RIGHT LANE CLOSURE AT INTERSECTION  
(WITH RIGHT TURN BAY OPEN)

LEGEND

- DRUM
- ⌄ POST MOUNTED SIGN
- K SIGN ON PORTABLE SUPPORT (5' MIN. MOUNTING HEIGHT)
- || TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHT, TYPE A (FLASHING) WITH SIGN
- ➡ DIRECTION OF TRAFFIC FLOW
- 🚩 FLAGS, 16" X 16" MIN., ORANGE

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/23/00 DATE	/S/ Chester J. Spang CHIEF SIGNS AND MARKING ENGINEER
FHWA	



TABLE 1  
TAPER AND BUFFER SPACE  
FOR 12' LANE WIDTH

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

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

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

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- POST MOUNTED SIGN
- SIGN ON PORTABLE SUPPORT
- ARROW BOARD
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- DIRECTION OF TRAFFIC FLOW
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT TWO LANES. FOR CLOSING THE LEFT TWO LANES, 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 SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

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

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

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

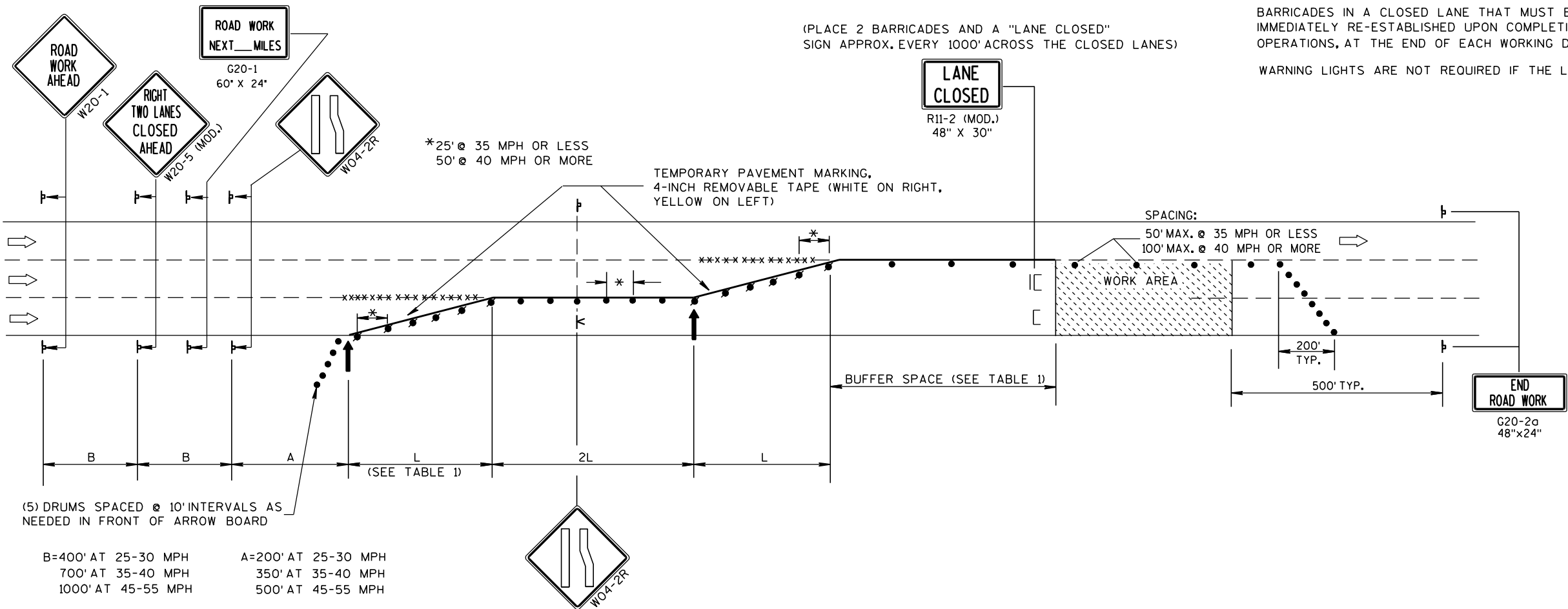
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO LOCATE THE ARROWBOARD AS SHOWN, PLACE THE ARROWBOARD IN THE LANE CLOSURE TAPER AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE TAPER.

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

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

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



TRAFFIC CPNTROL,  
TWO LANE CLOSURE,  
NON-FREEWAY/EXPRESSWAY

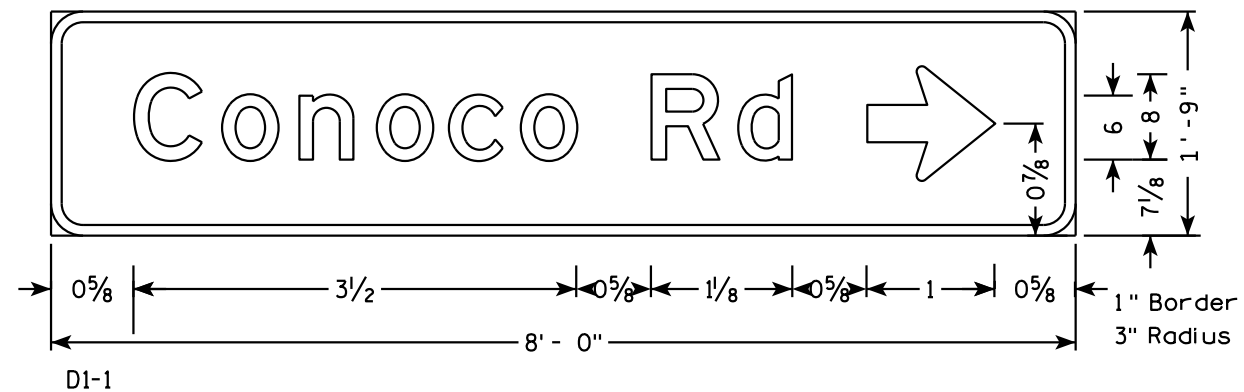
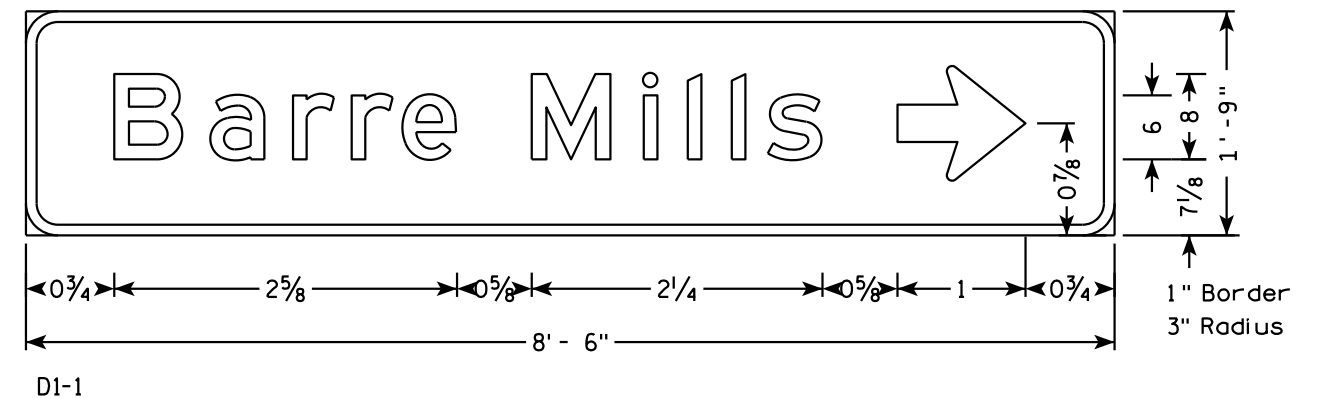
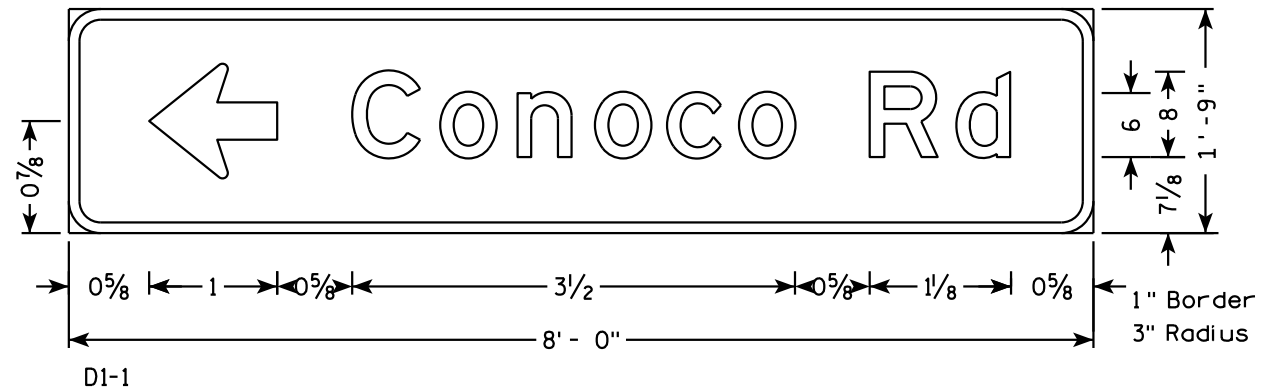
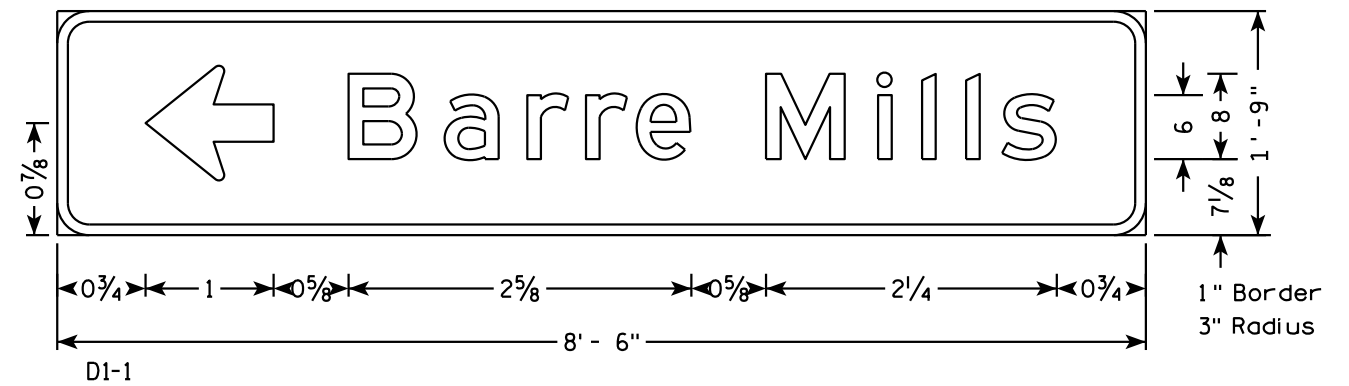
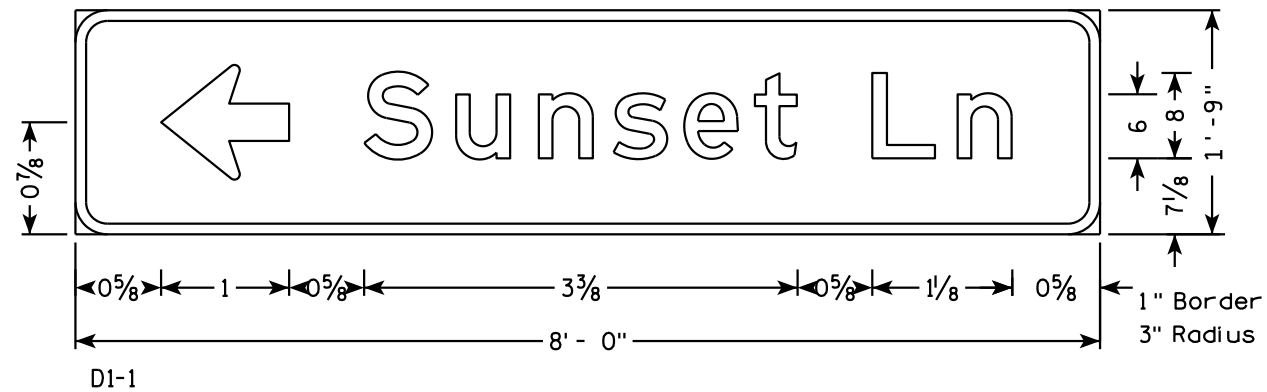
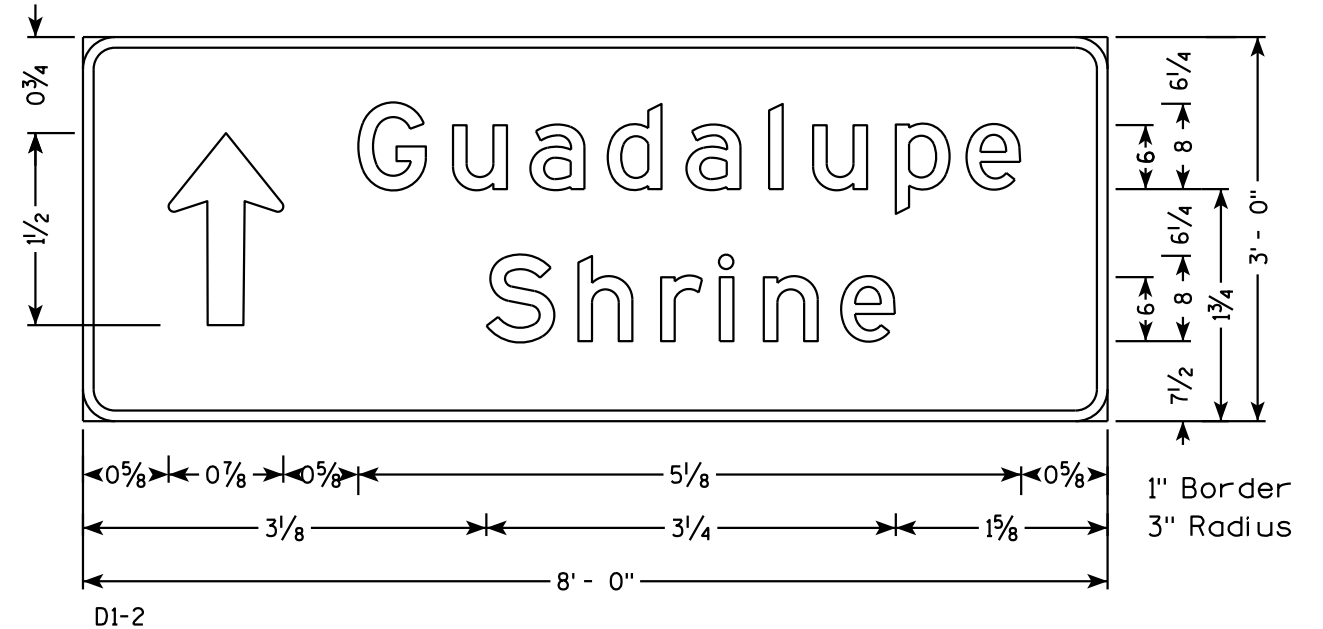
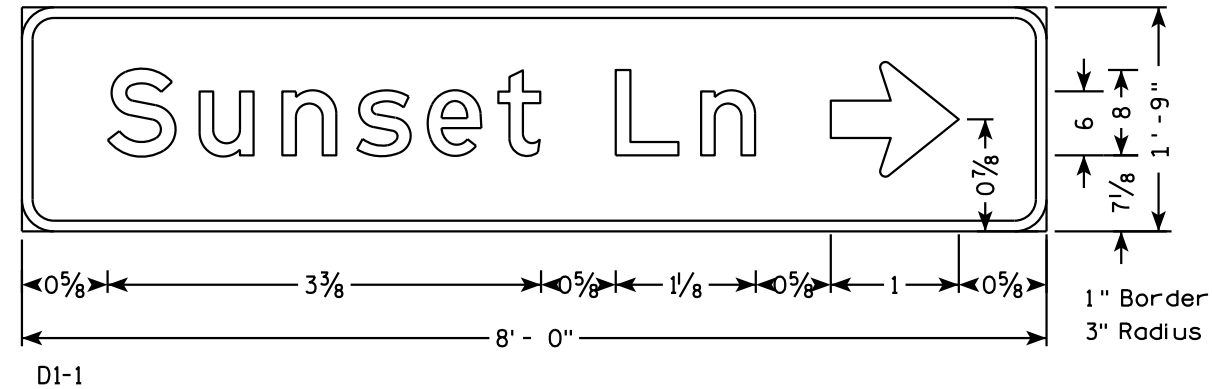
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
5/23/00  
DATE /S/ Cester J. Spang  
CHIEF SIGNS AND MARKING ENGINEER  
FHWA

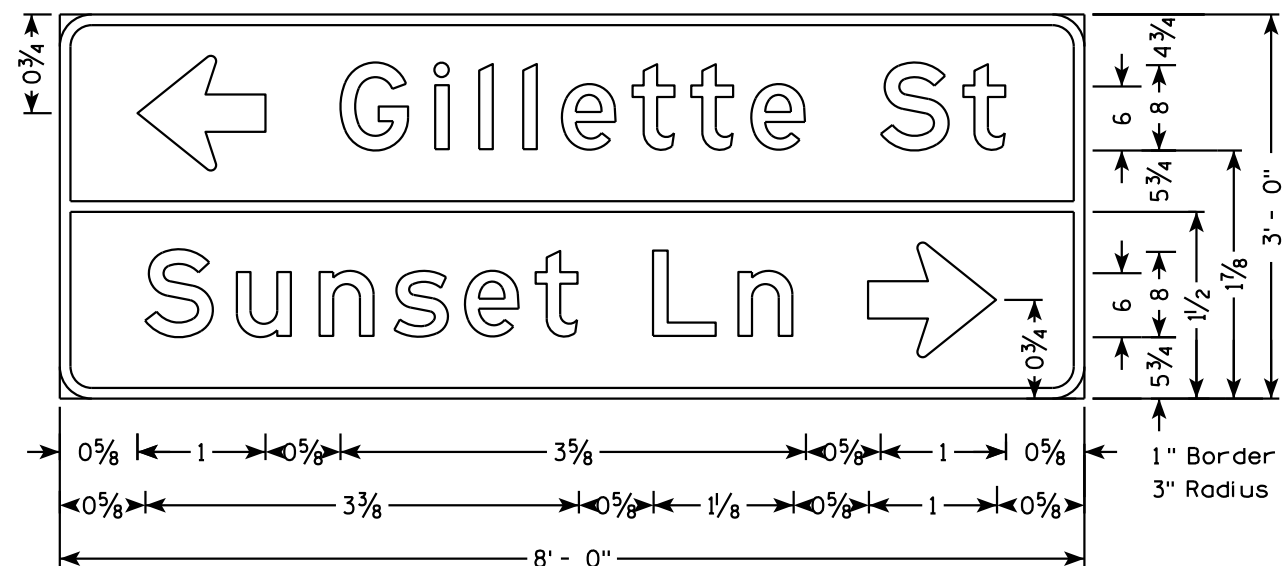


# NOTES

1. All SignType II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - GREEN  
Message - WHITE
3. Message Series - E







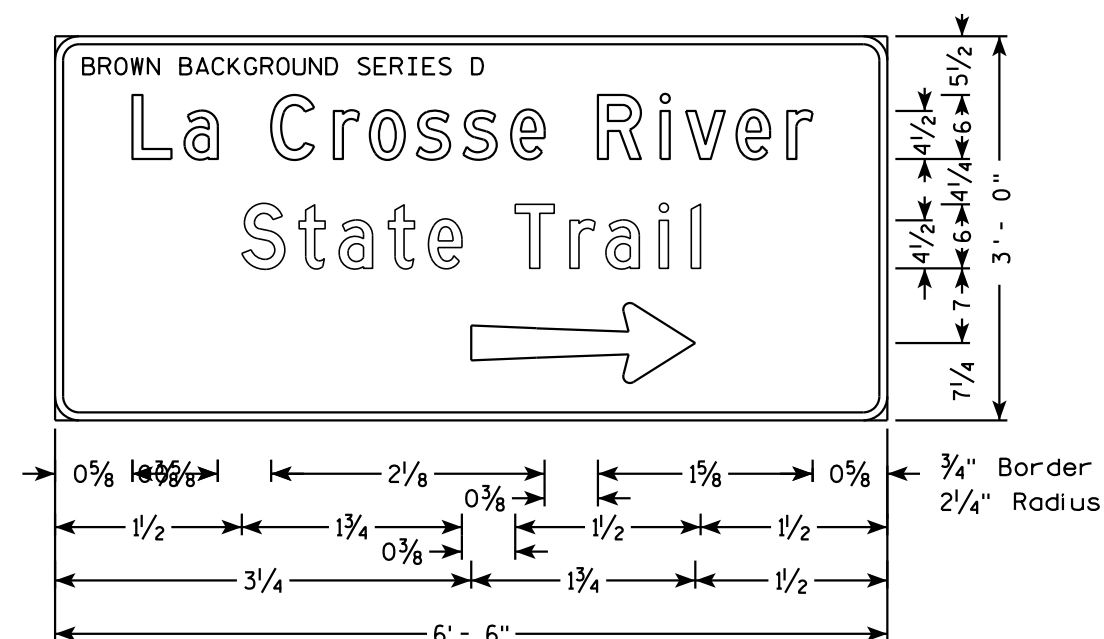
D1-2



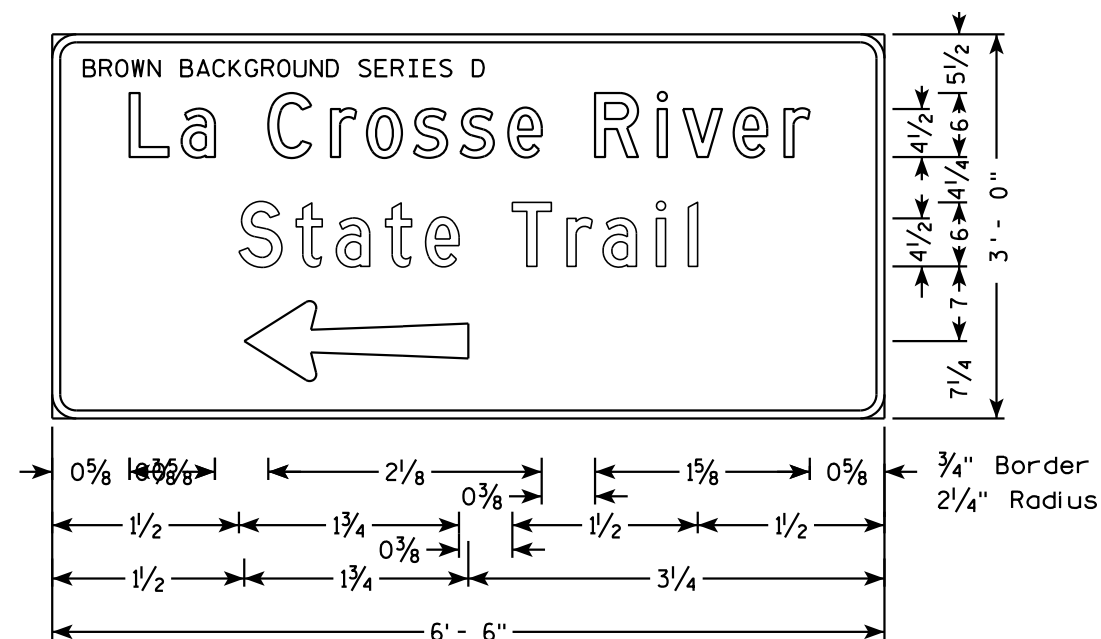
D1-1

NOTES

1. All Signs - Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - GREEN except as Shown  
Message - WHITE
3. Message Series - E except as Shown



D7-58R



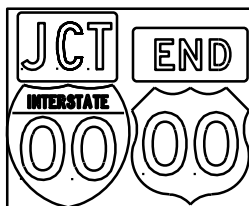
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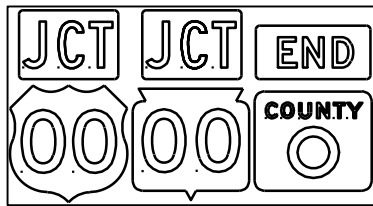
TYPICAL ASSEMBLIES



J1-1



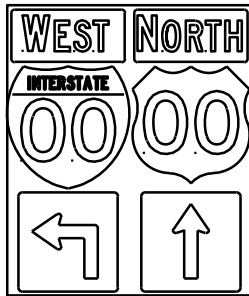
J1-2



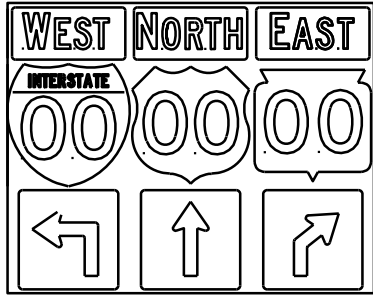
J1-3



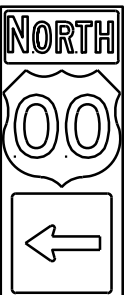
J2-1



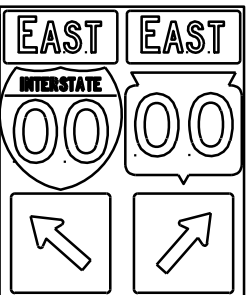
J2-2



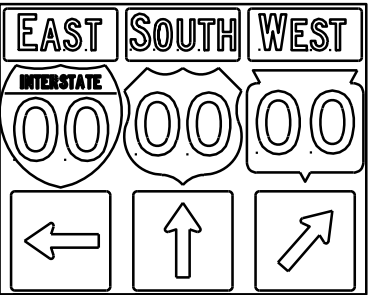
J2-3



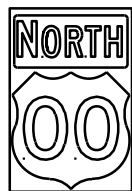
J3-1



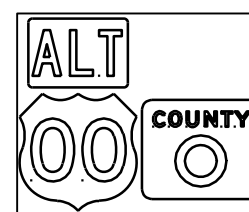
J3-2



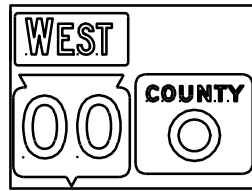
J3-3



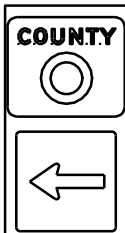
J4-1



J4-2



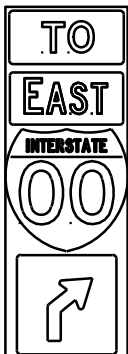
J4-2



J13-1



J12-1



J32-1



J33-1



J23-1



J22-1

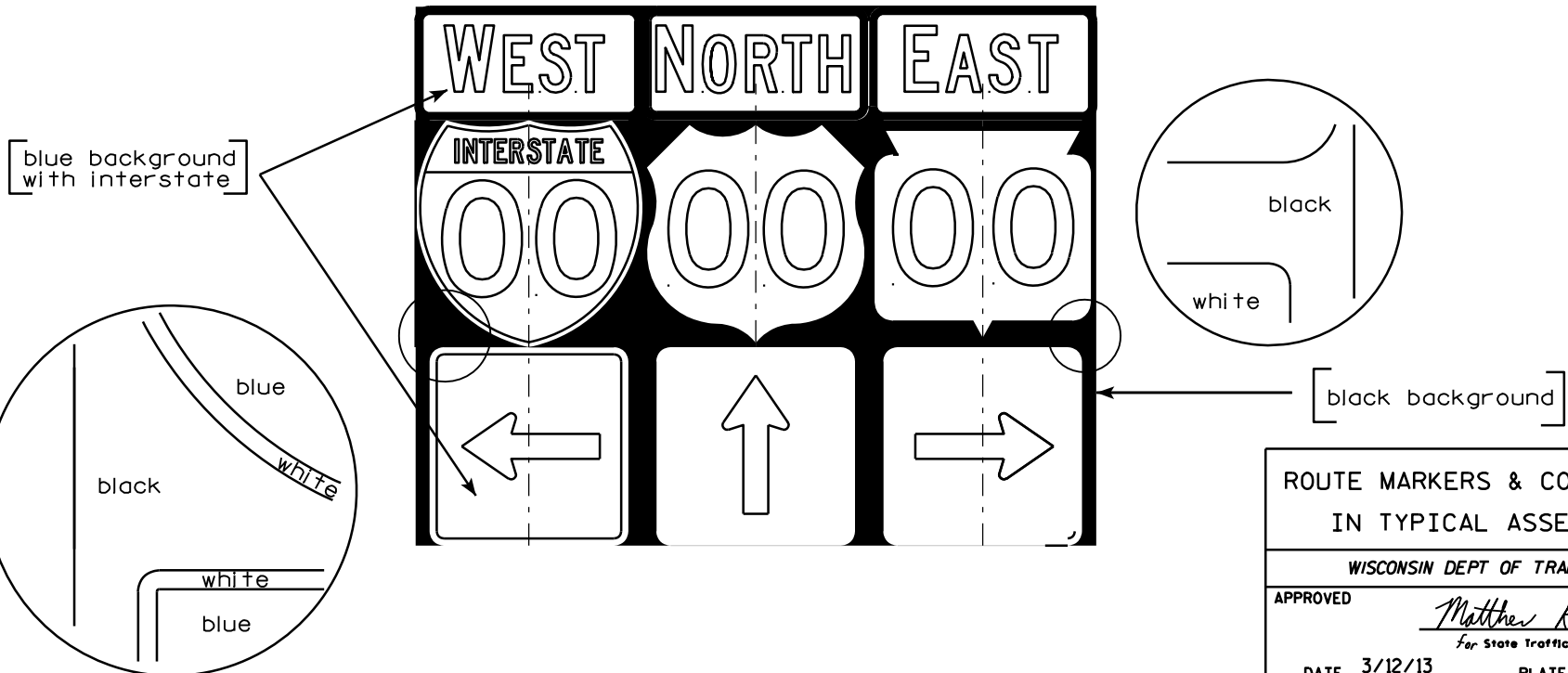


JV

( Typical Vertical J-Assembly  
See Note 10 )

NOTES

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



ROUTE MARKERS & COMPONENTS  
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

*Matthew R. Rauch*  
For State Traffic Engineer

DATE 3/12/13

PLATE NO. A2-1S.7

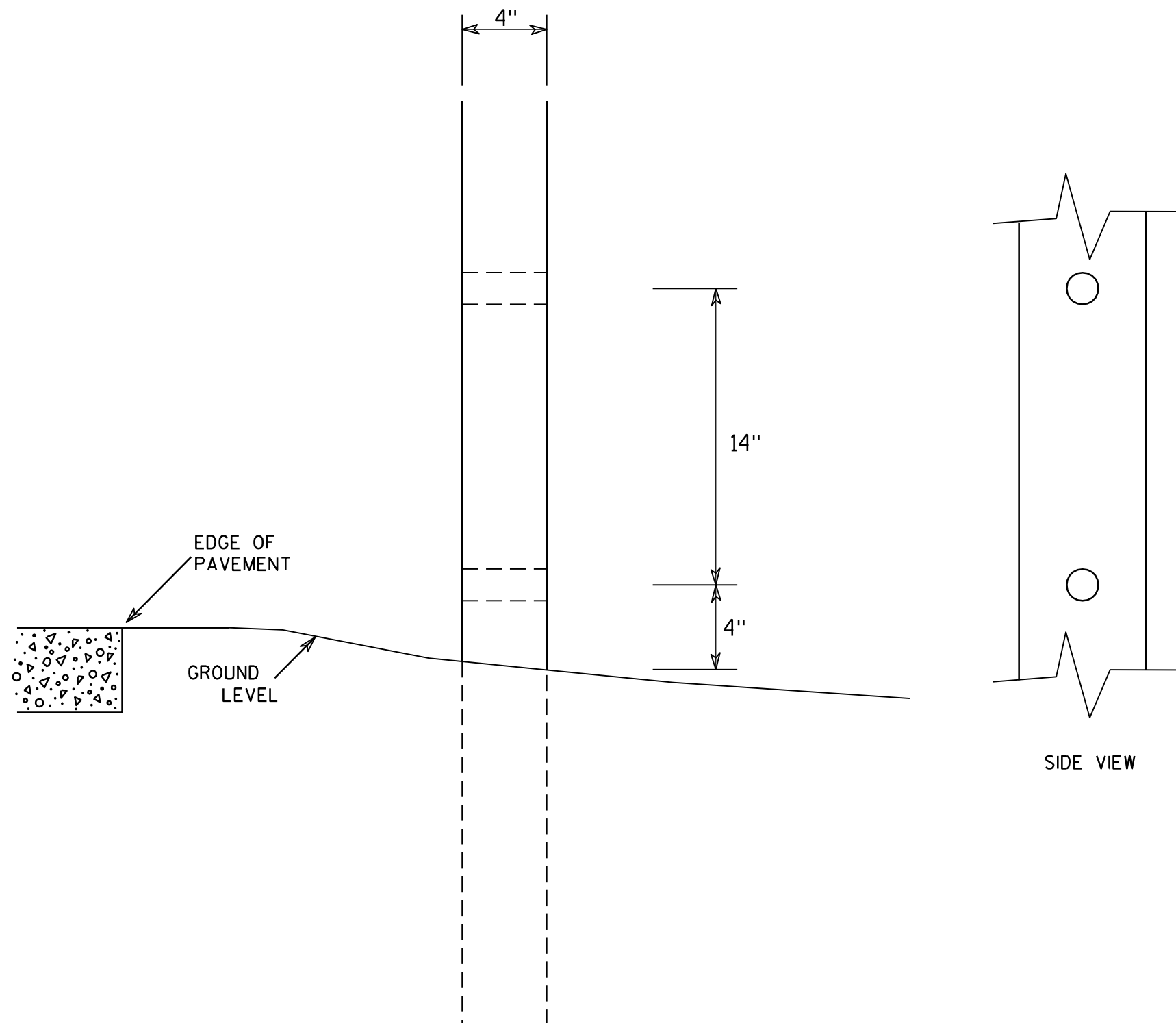
PROJECT NO:

SHEET NO:

E



7



### GENERAL NOTES

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

7

## 4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

*Chester J. Spang*  
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

HWY:

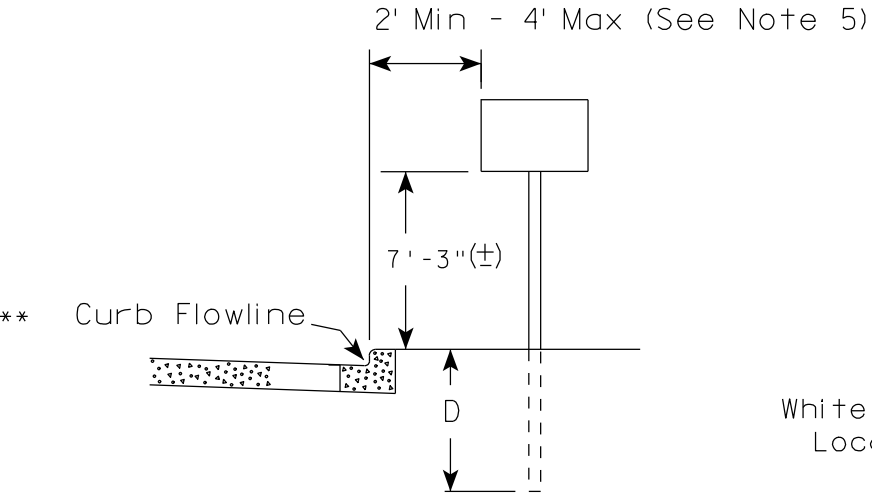
COUNTY:

SHEET NO:

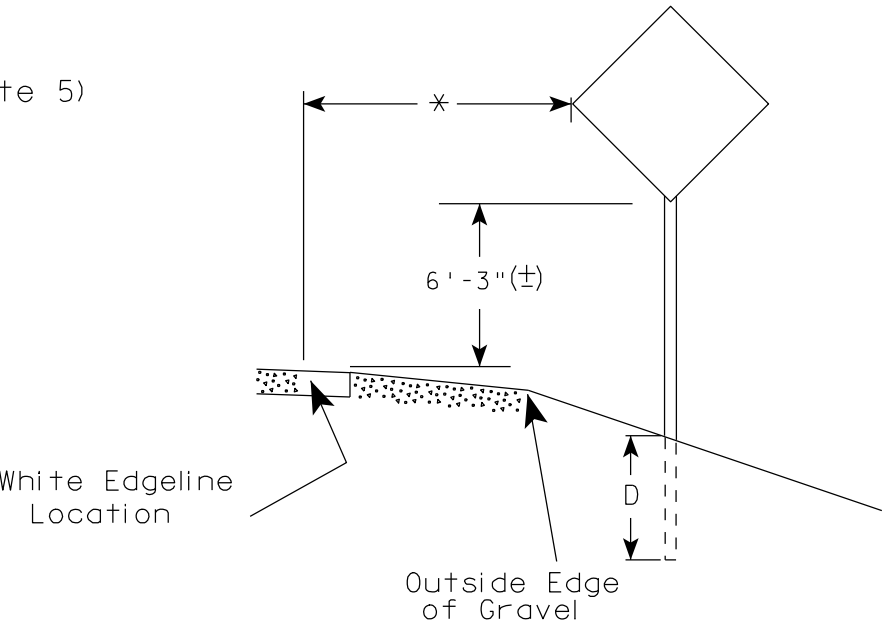
E



URBAN AREA

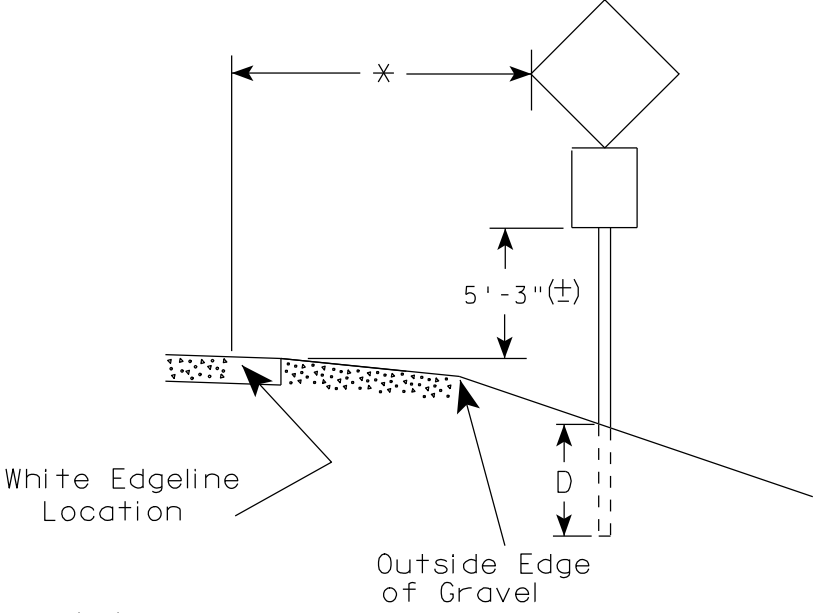
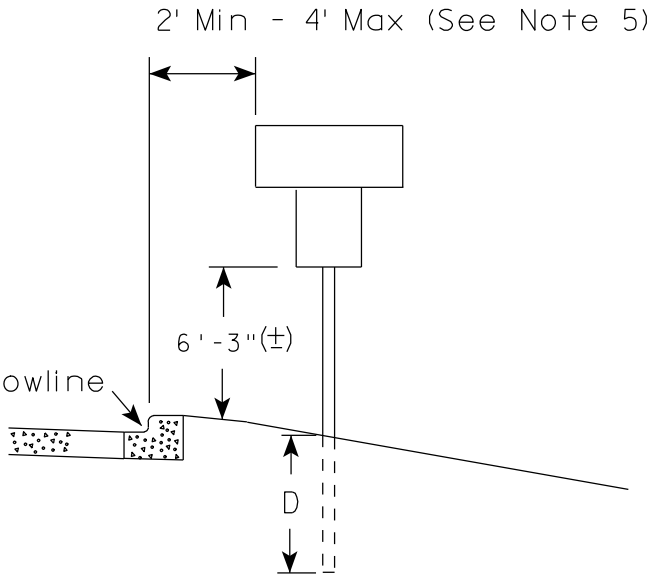


RURAL AREA (See Note 2)



GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).



POST EMBEDMENT DEPTH

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

\* \* 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. Rauch*  
for State Traffic Engineer

DATE 9/21/2011 PLATE NO. A4-3.16



# GENERAL NOTES

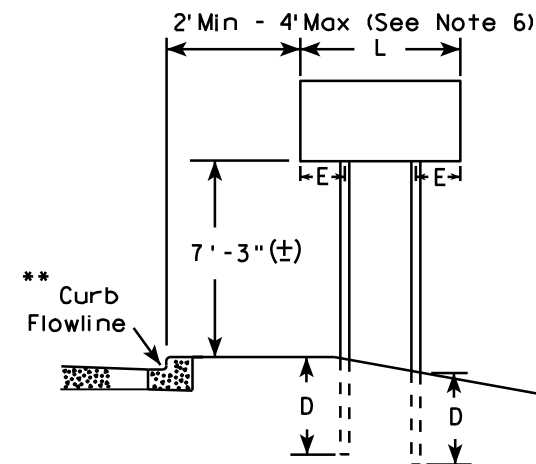
- For multiple post installations, individual post spacing shall be greater than 3'-6".
- See tables below for required number of posts.
- For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- The (±) tolerance for mounting height is 3 inches.
- Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
- Offset distance shall be consistent with existing signs or consistent throughout length of project.
- Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

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

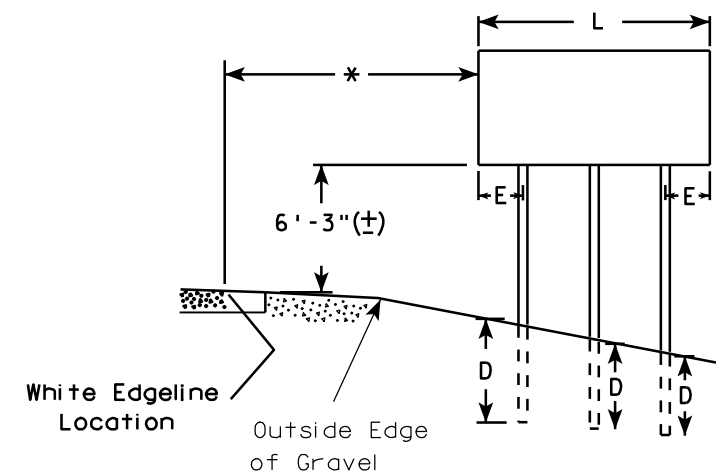
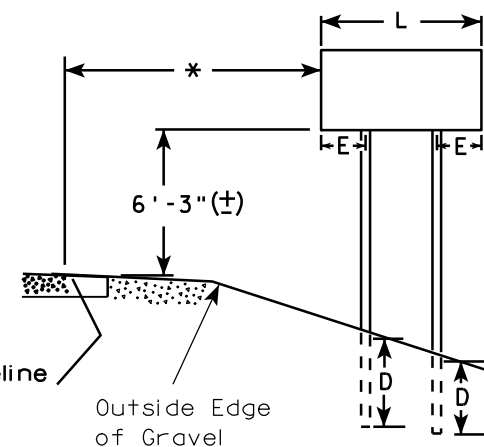
\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of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

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

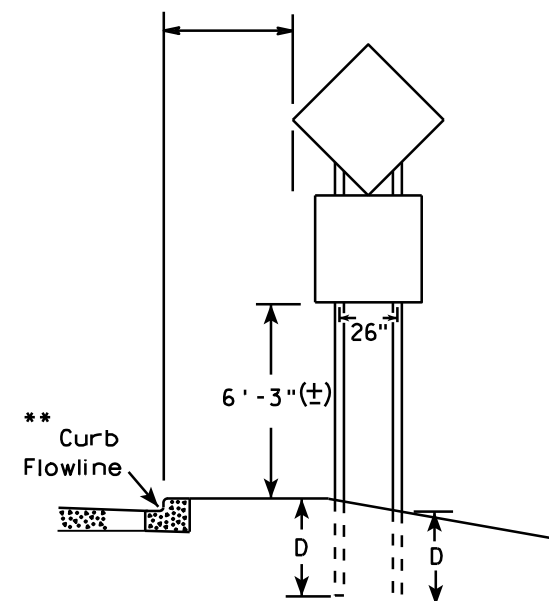
## URBAN AREA



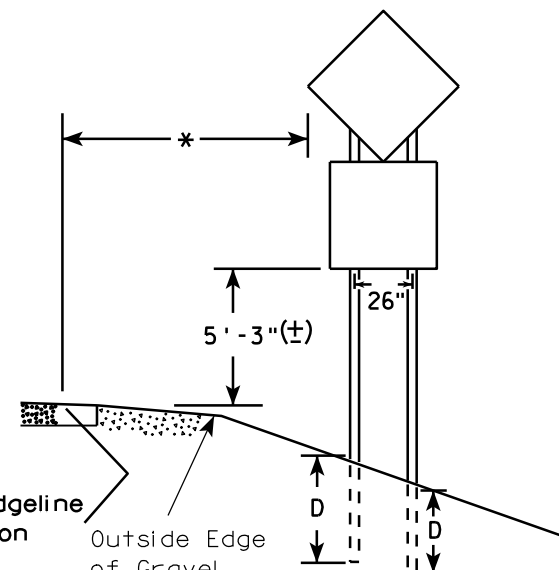
## RURAL AREA (See Note 3)



2' Min - 4' Max (See Note 6)



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

### SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)

L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

### SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)

L	E
Greater than 120" less than 168"	12"

### SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)

L	E
168" and greater	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 9/21/2011 PLATE NO. A4-4.11

PROJECT NO:

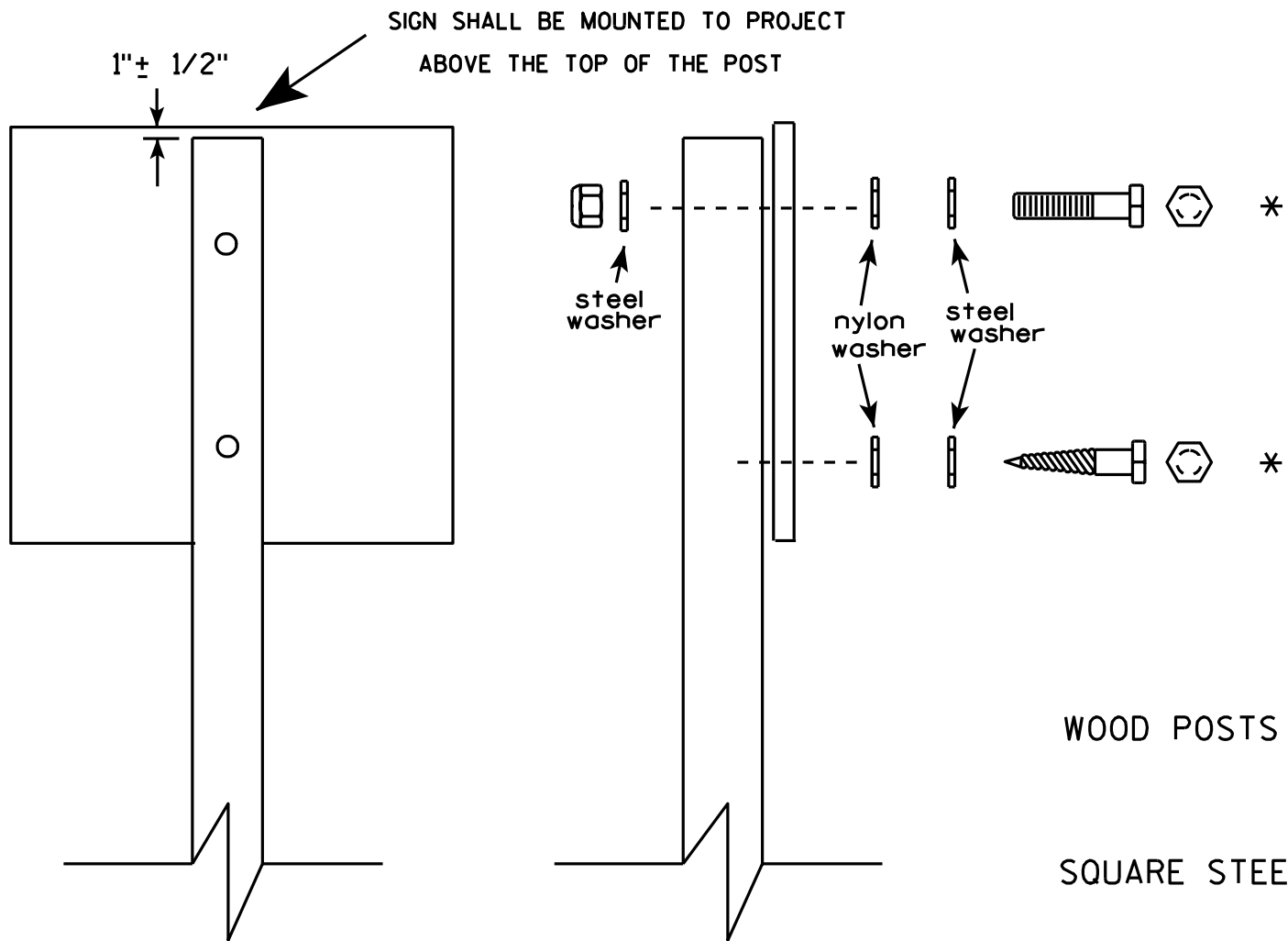
HWY:

COUNTY:

SHEET NO:

E



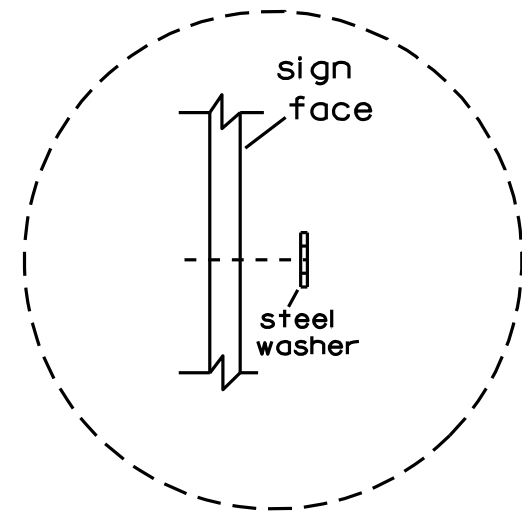


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

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

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

- WOOD POSTS (4" x 4" or 4" x 6")  
LAG SCREWS - 3/8" X 3"  
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts
- SQUARE STEEL POSTS (2" x 2")  
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts  
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL  
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -  
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL  
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



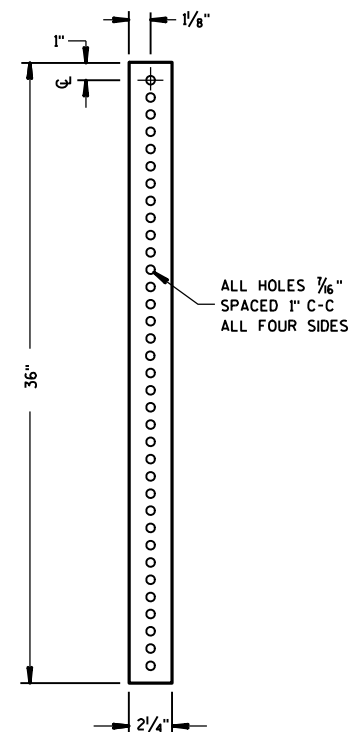
Washer Placement when Sign Has Other Than Type H or Type F Face

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

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 3/23/10	PLATE NO. A4-8.7



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



LENGTH SHOWN ON MISC. OTYS

TELESCOPE PIECES FLUSH AT TOP

18" DIA PVC BOX-OUT

36"

18"

13"

18"

2 1/4" SQUARE X 36"

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

3/8" ZINC PLATED ANCHOR BOLT AND NUT

2 1/2" GRAVEL OR DIRT

2" STEEL TUBULAR SQUARE UPPER SECTION

ALL HOLES 7/16" SPACED 1" C-C ALL FOUR SIDES

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

SIGN

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 5/30/12 PLATE NO. A4-9.7

PROJECT NO:

HWY:

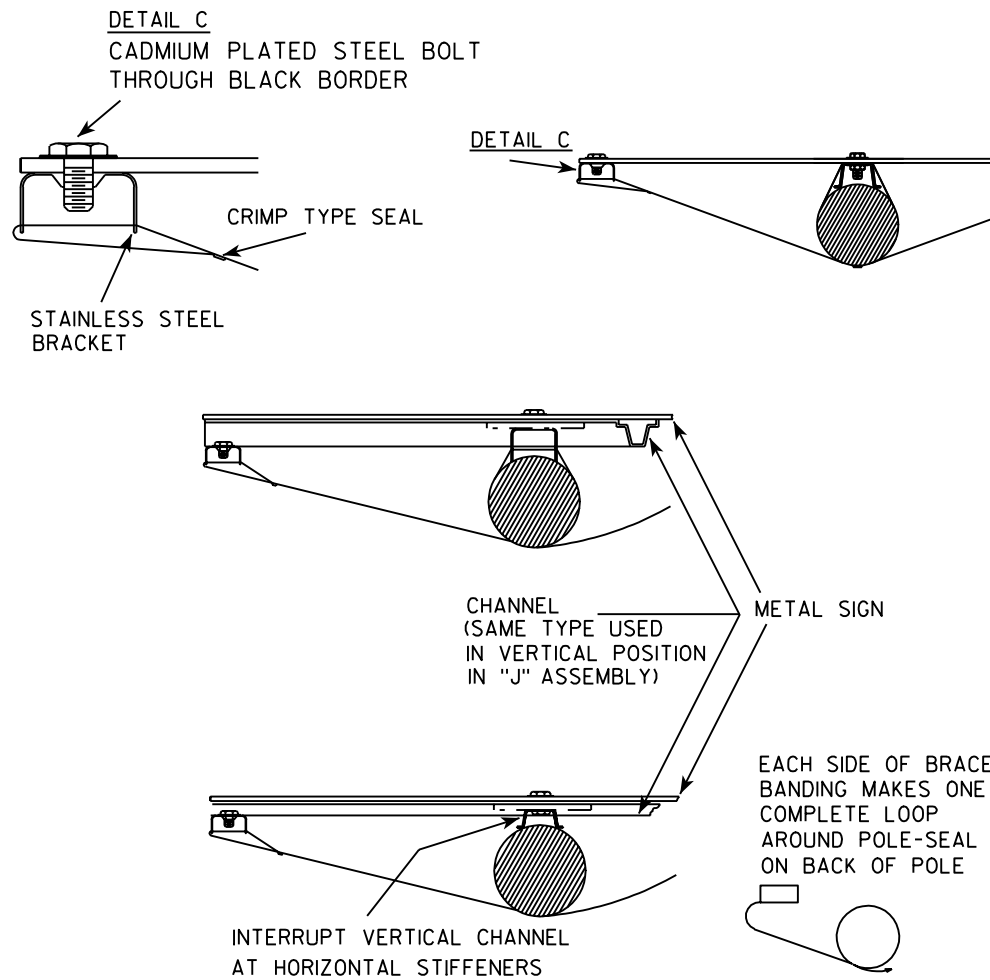
COUNTY:

SHEET NO:

**E**



# BRACE BANDING

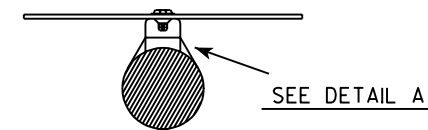
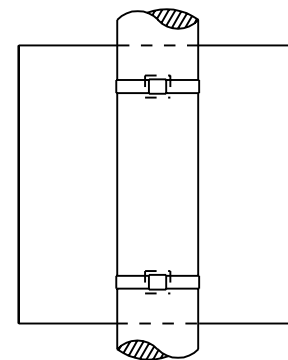


# BRACE BANDING

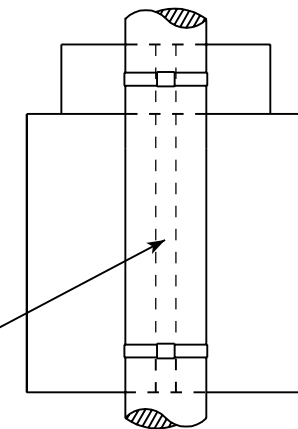
BRACE BANDING SHALL BE TIGHTENED FIRMLY  
BUT NOT SO TIGHT AS TO APPRECIABLY  
CURVE FACE OF SIGN.

# BRACKET BANDING

## SINGLE SIGN

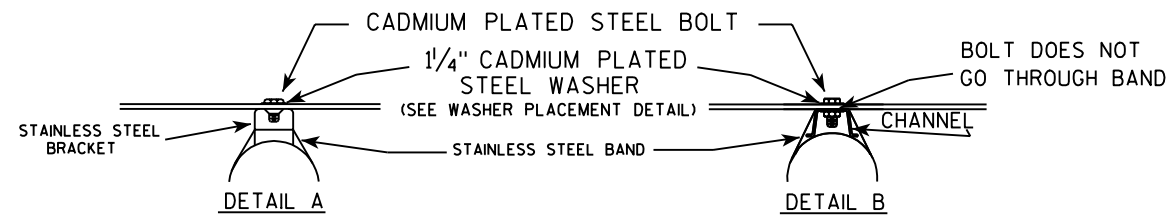


## "J" ASSEMBLY

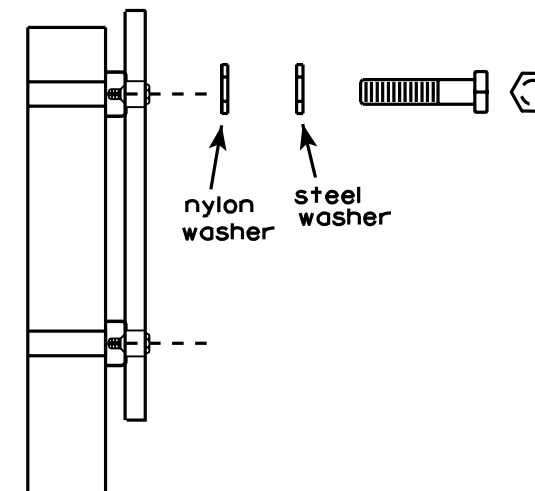


CHANNEL  
SEE TYPICAL PANEL  
INSTALLATION SHEET

SEE DETAIL B



# 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. Signs 4' or greater in width shall have one brace band installed at the center of the sign.
2. Signs 3' or greater in height shall have three bracket bands installed. Signs less than 3' 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.

# STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 11/08/05 PLATE NO. A5-9.2

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

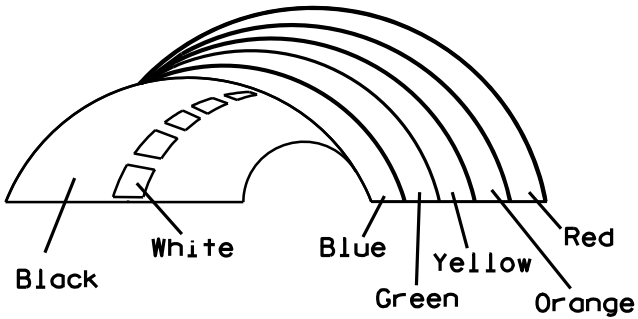
E





\* VARIES

Background Colors of Symbol\*



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

NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:  
Background - White  
Message - (See Note 5)
- 3. Message Series - (See Note 6)
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Border - Blue  
Line 1 - Red  
Line 2 - Black  
Line 3-5 - Blue
- 6. Line 1 - Dutch 8011L  
Line 2 - Series E  
Line 3-5 - Series C
- 7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

STANDARD SIGN  
I55-56

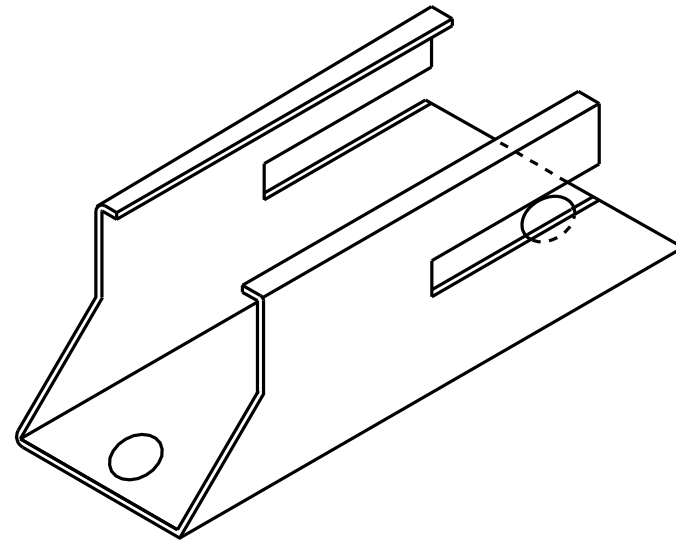
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

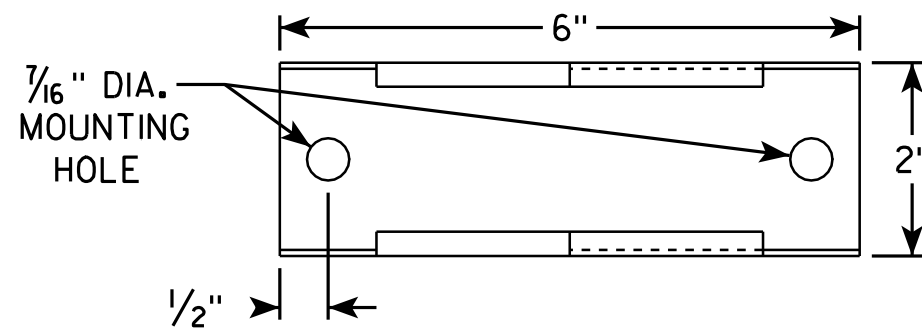
DATE 4/27/11 PLATE NO. I55-56.3



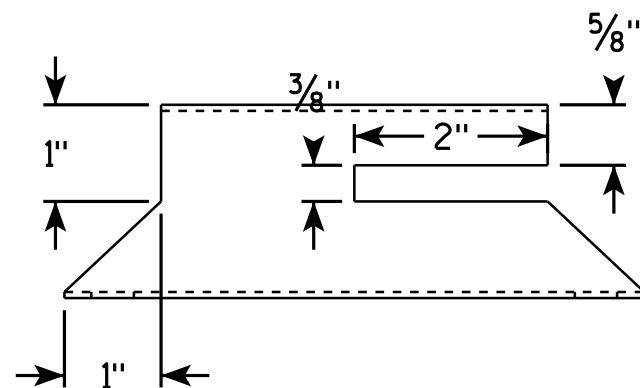
# ISOMETRIC VIEW



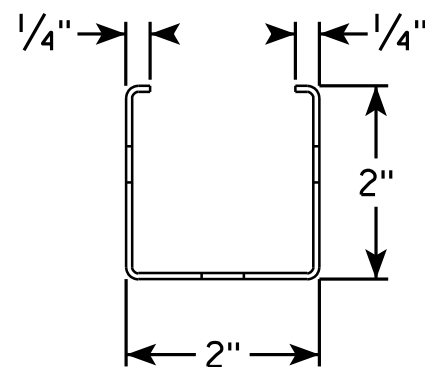
# TOP VIEW



# SIDE VIEW



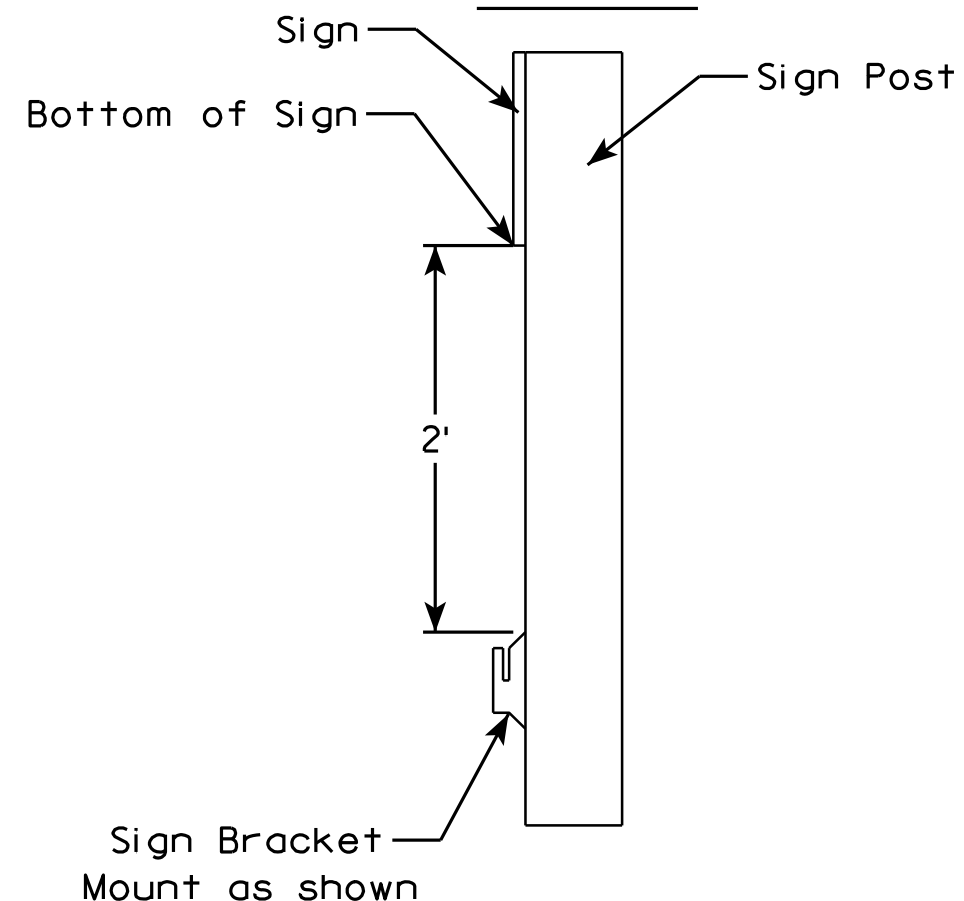
# END VIEW



# NOTES

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

# SIDE VIEW



ROLLUP SIGN BRACKET  
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 2/5/10 PLATE NO. I55-56B.1

PROJECT NO:

HWY:

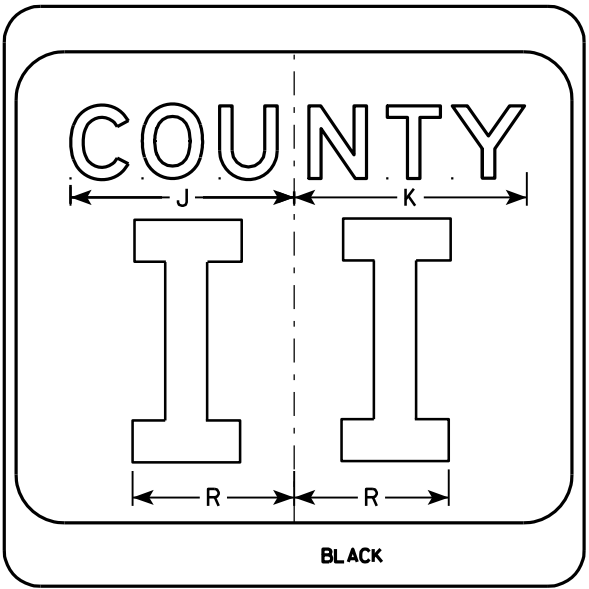
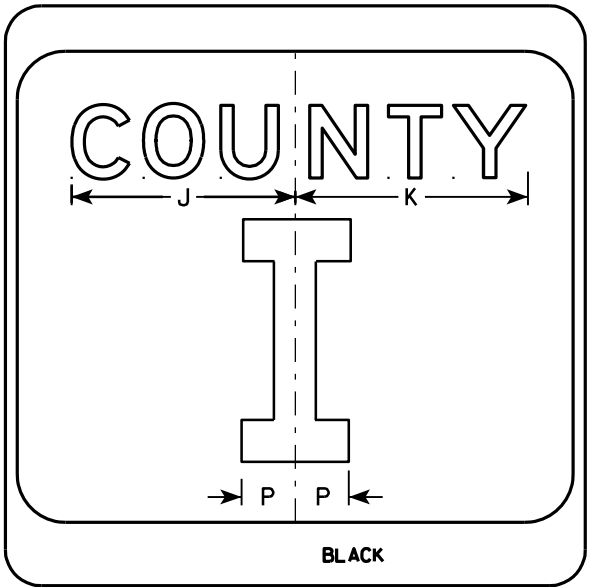
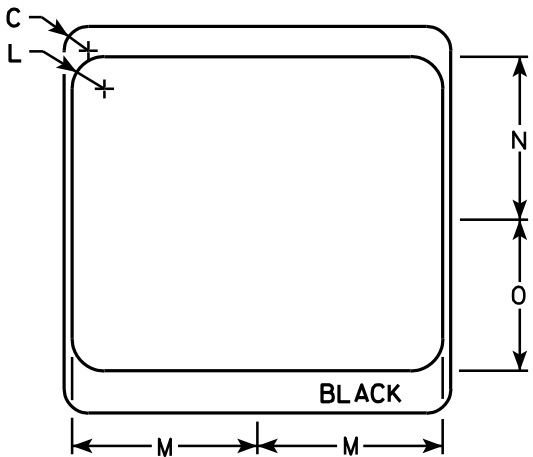
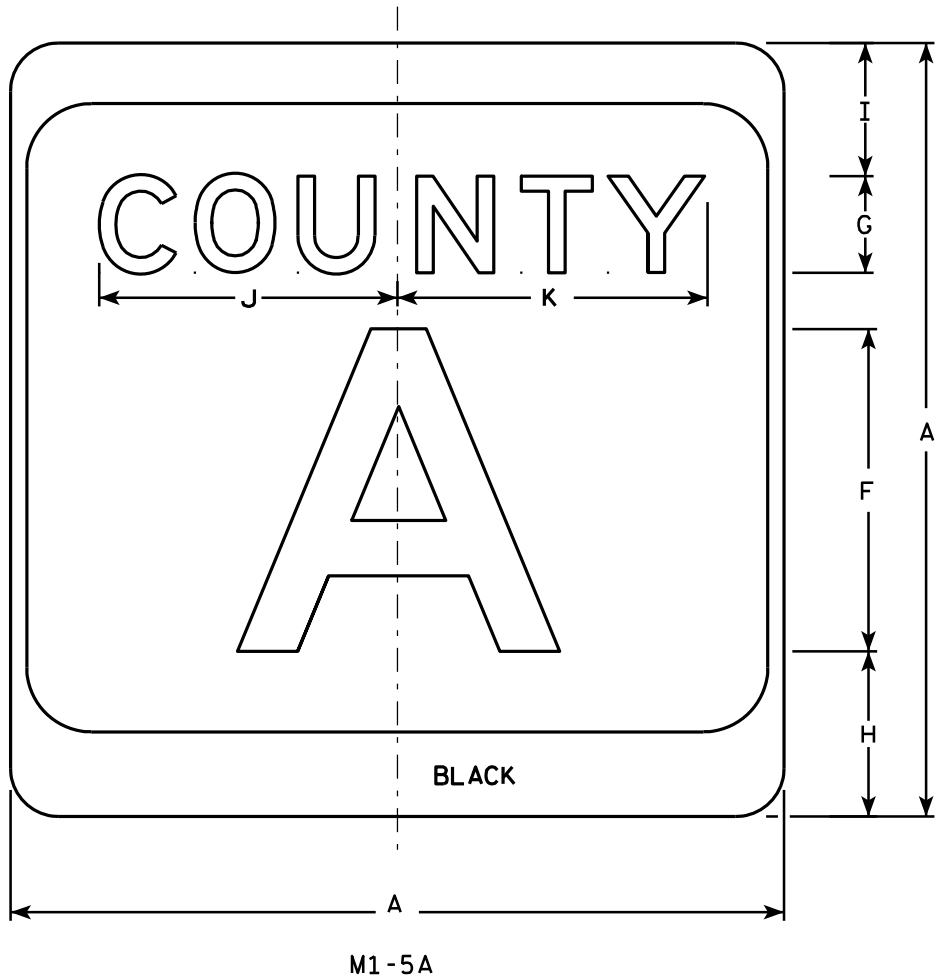
COUNTY:

SHEET NO:

E



7



NOTES

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

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

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

CTH MARKER  
M1-5A FOR ASSEMBLIES

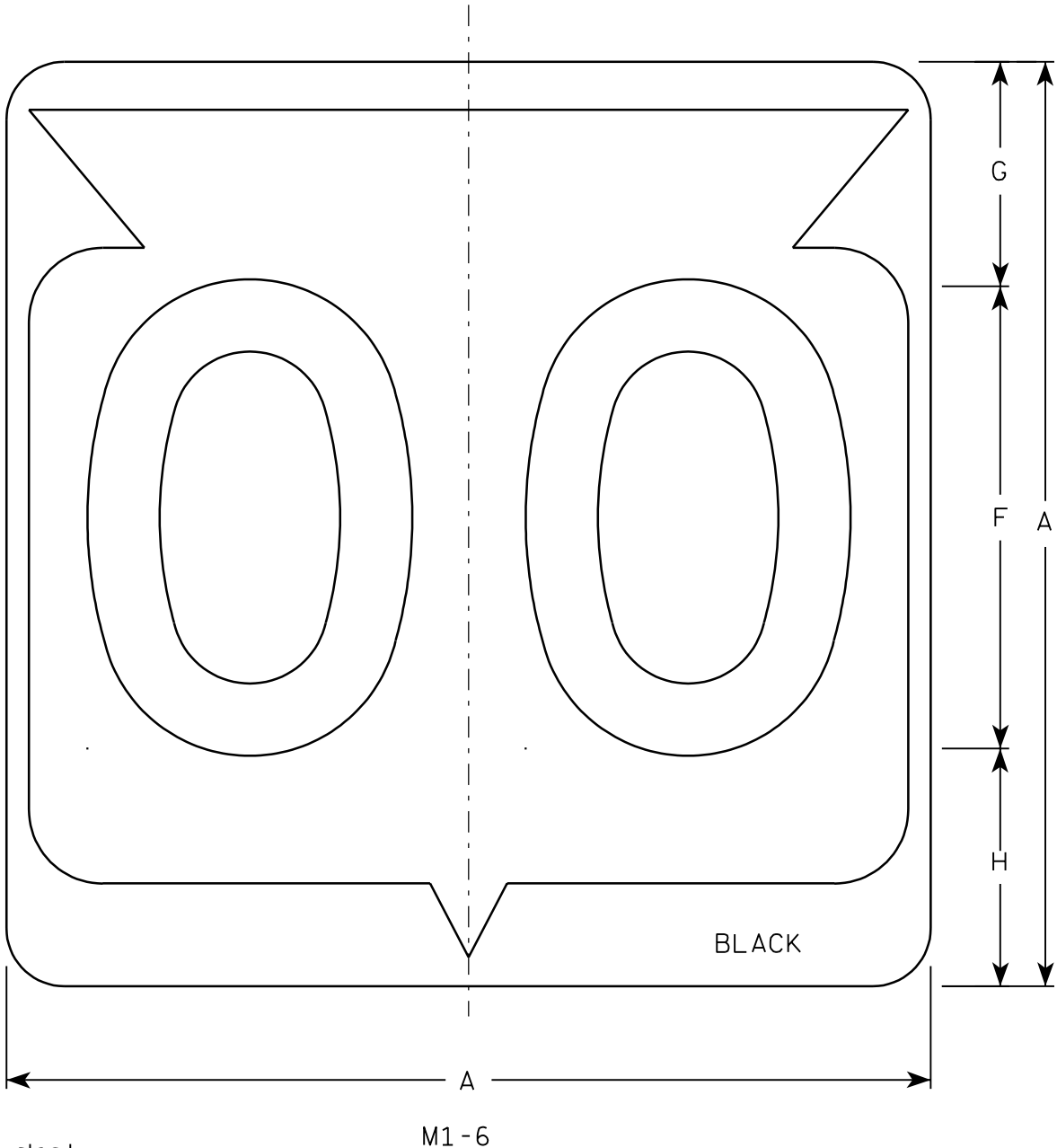
WISCONSIN DEPT OF TRANSPORTATION

APPROVED  
*Matthew R. Rauch*  
For State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8



7



Metric equivalent  
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m <sup>2</sup>
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

FILE NAME : C:\Users\Projects\tr\_stdp\late\M16.DGN

PLOT DATE : 13-OCT-2005 14:55

PLOT BY : DITJPH

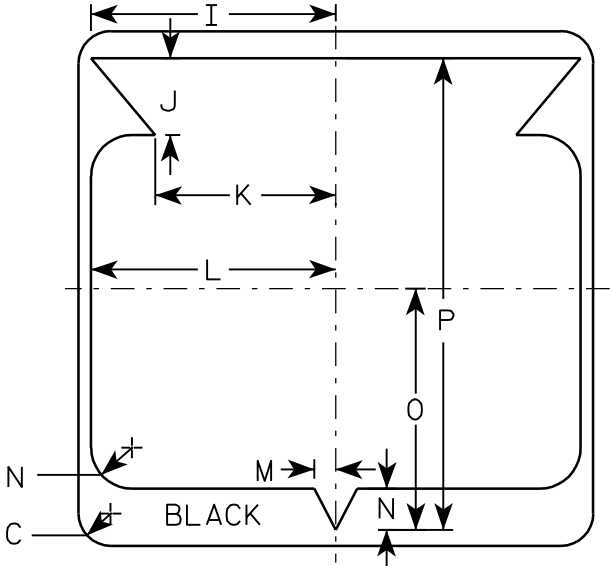
PLOT NAME :

PLOT SCALE : 6.715871:1.000000

WISDOT/CADDS SHEET 42

NOTES

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



STATE ROUTE MARKER  
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

*Chester J. Spang*  
for State Traffic Engineer

DATE 3/20/02

PLATE NO. M1-6.9



7

Metric equivalent  
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m <sup>2</sup>
1	24		1 1/8	3/8	1/2	4	6	10	10 1/8	5 1/2	6 1/8																4.0	0.36
2	24		1 1/8	3/8	1/2	4	6	10	10 1/8	5 1/2	6 1/8																4.0	0.36
3																												
4	36		1 3/8	1/2	5/8	6	9	15	15 1/4	8 1/4	9 1/8																9.0	0.81
5																												

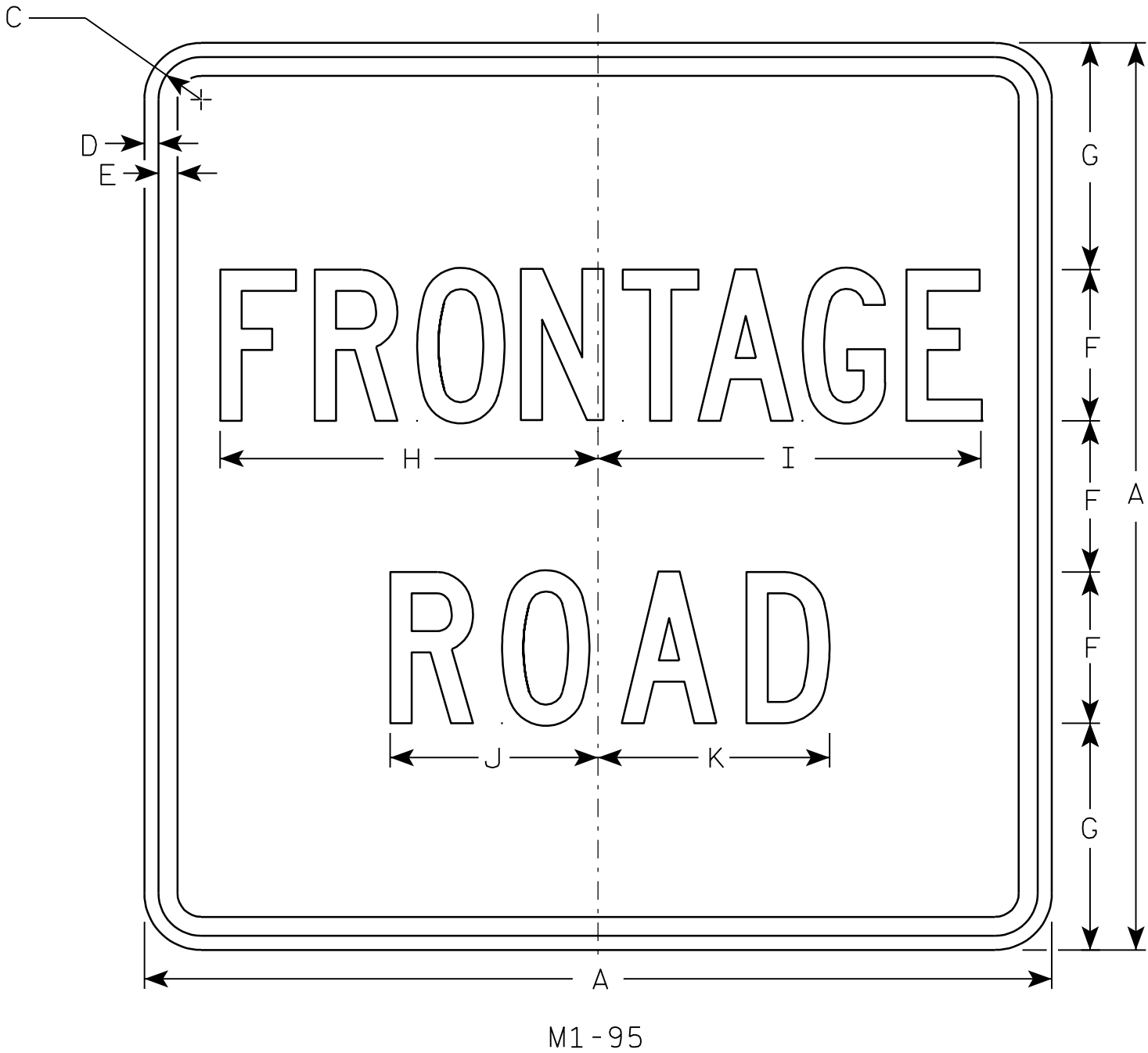
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



NOTES

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

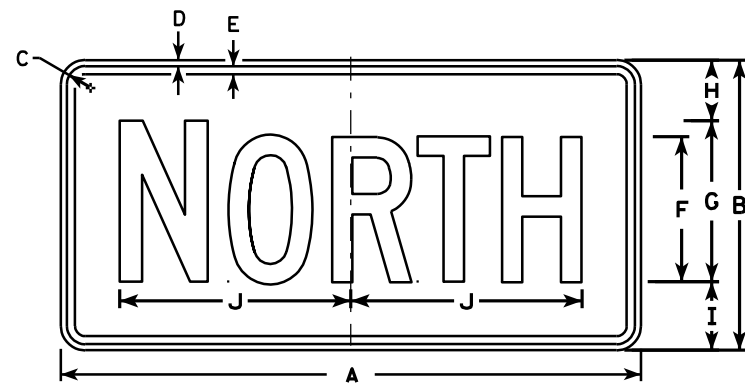
STANDARD SIGN  
M1-95

WISCONSIN DEPT OF TRANSPORTATION

APPROVED  
*Chester J. Spang*  
for State Traffic Engineer

DATE 1/30/02 PLATE NO. M1-95.6

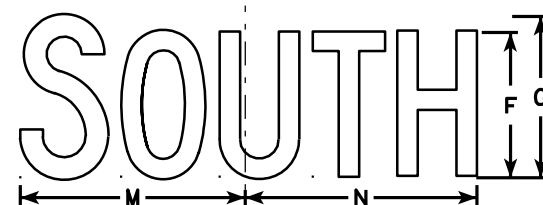




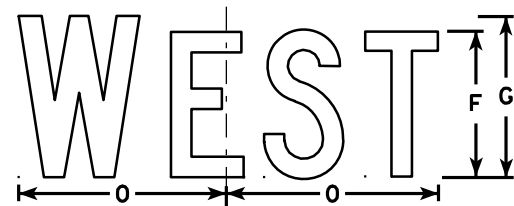
M3-1  
MK3-1  
M03-1



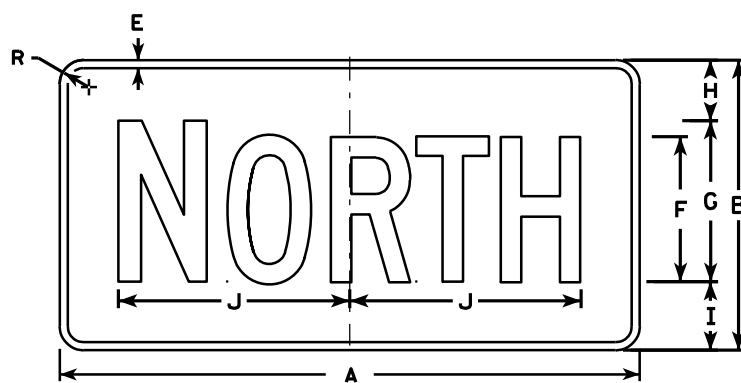
M3-2  
MK3-2  
M03-2



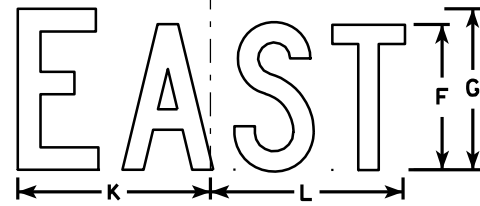
M3-3  
MK3-3  
M03-3



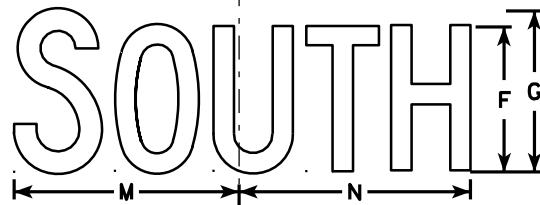
M3-4  
MK3-4  
M03-4



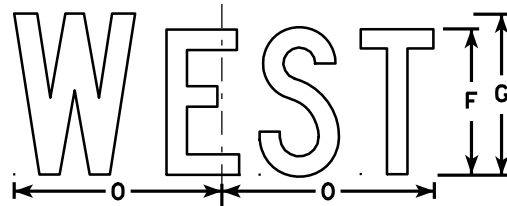
MB3-1  
MG3-1  
MM3-1  
MN3-1



MB3-2  
MG3-2  
MM3-2  
MN3-2



MB3-3  
MG3-3  
MM3-3  
MN3-3



MB3-4  
MG3-4  
MM3-4  
MN3-4

## NOTES

1. All Signs Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - See note 5  
Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White - Type H Reflective  
(Detour or temporary signs - Reflective)  
Message - Black  
MB3-1 thru MB3-4 Background - Blue  
Message - White - Type H Reflective  
(Detour or temporary signs - Reflective)  
MG3-1 thru MG3-4 Background - Green  
Message - White - Type H Reflective  
MK3-1 thru MK3-4 Background - Green  
Message - White - Type H Reflective  
MM3-1 thru MM3-4 Background - White - Type H Reflective  
Message - Green  
MN3-1 thru MN3-4 Background - Brown  
Message - White - Type H Reflective  
M03-1 thru M03-4 Background - Orange - Reflective  
Message - Black
6. Note the first letter of each direction is larger than the remainder of the message.

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

PROJECT NO: HWY: COUNTY: SHEET NO: E

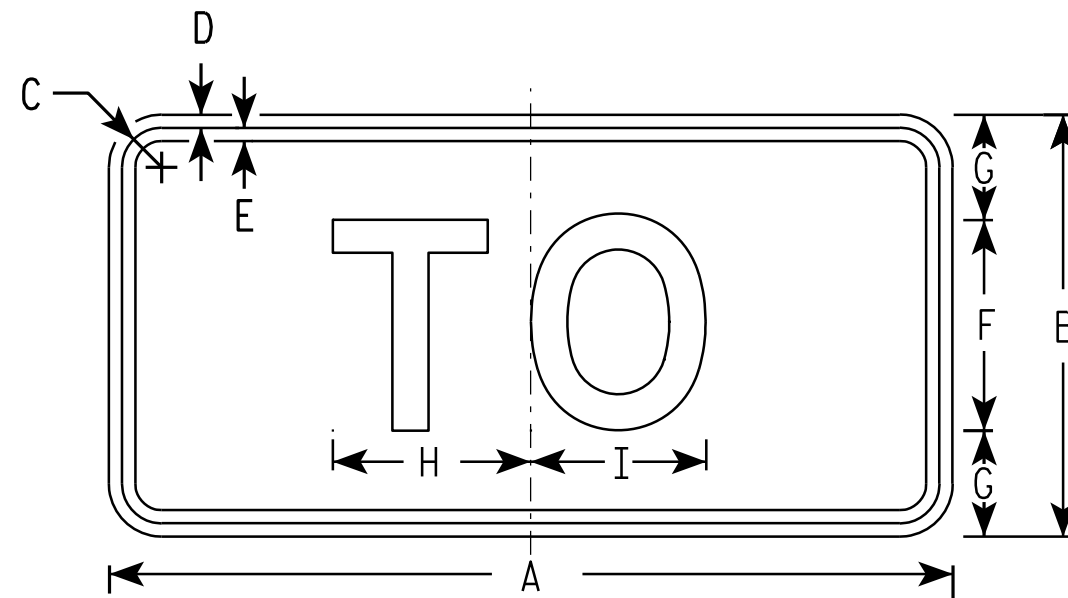
## STANDARD SIGNS M3-1 thru M3-4 SERIES

WISCONSIN DEPT OF TRANSPORTATION

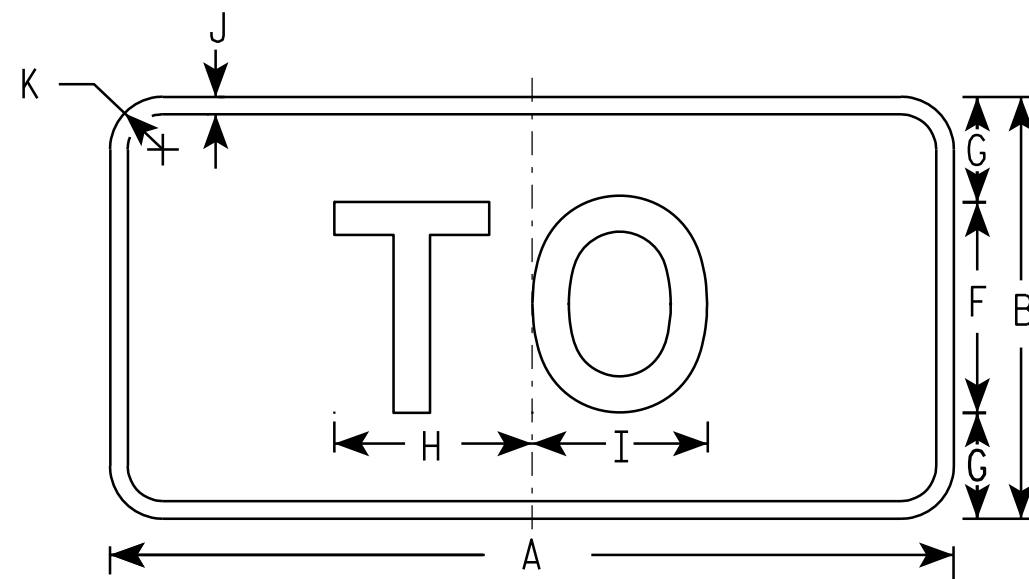
APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M3-1.12





M4-5  
MK4-5  
MM4-5



MB4-5  
MG4-5  
MN4-5

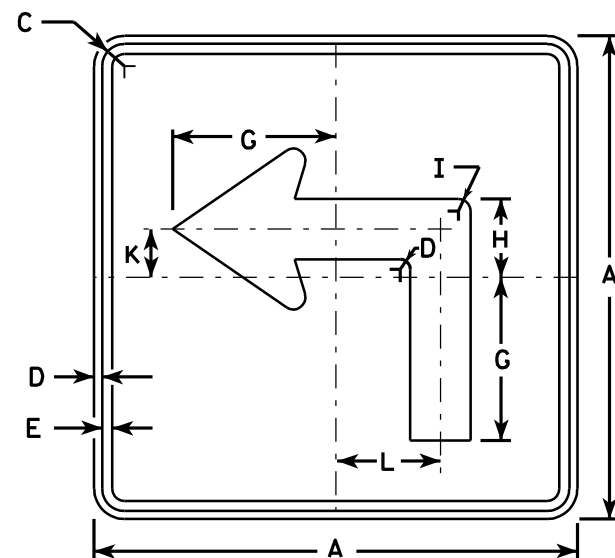
### NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - See note 5  
Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White - Type H Reflective  
(Detour or temporary Signs - Reflective)  
Message - Black  
MB4-5 Background - Blue  
Message - White - Type H Reflective  
(Detour or temporary Signs - Reflective)  
MG4-5 Background - Green  
Message - White - Type H Reflective  
MK4-5 Background - Green  
Message - White - Type H Reflective  
MM4-5 Background - White - Type H Reflective  
Message - Green  
MN4-5 Background - Brown  
Message - White - Type H Reflective

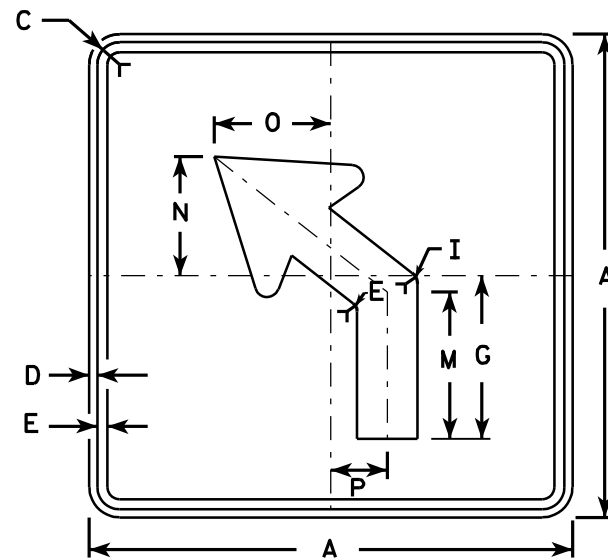
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2															2.00	
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2															4.5	
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2											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

PROJECT NO: HWY: COUNTY: SHEET NO: E

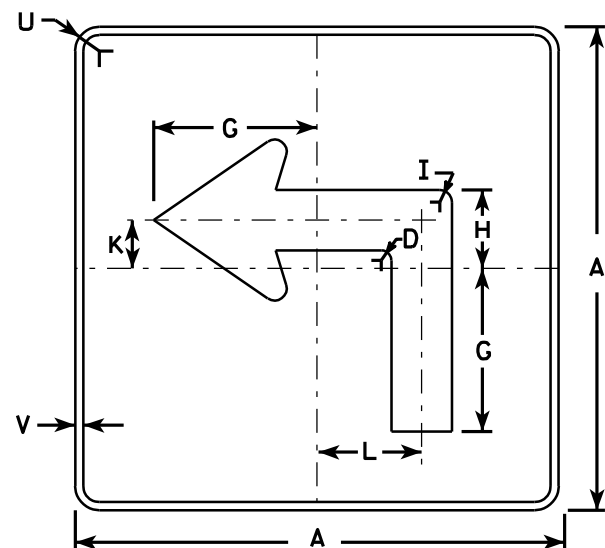




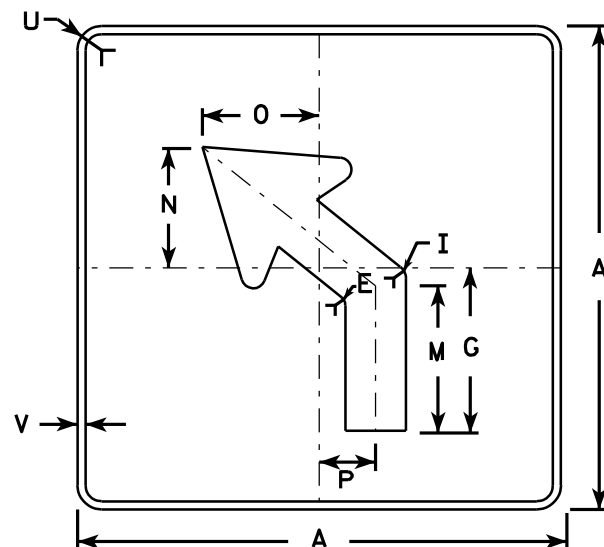
M5-1L  
MK5-1L  
MM5-1L  
MO5-1L  
MR5-1L



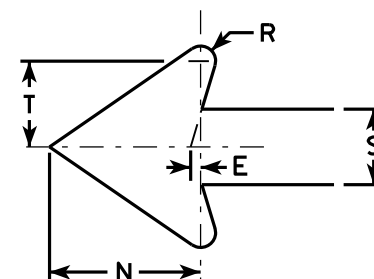
M5-2L  
MK5-2L  
MM5-2L  
MO5-2L  
MR5-2L



MB5-1L  
MG5-1L  
MN5-1L



MB5-2L  
MG5-2L  
MN5-2L



Metric equivalent  
for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m <sup>2</sup>
1																												
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56

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

- Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:  
Background - See note 4  
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M5-1 and M5-2 Background - White - Type H Reflective (Detour or temporary Signs - Reflective)  
Message - Black  
MB5-1 and MB5-2 Background - Blue  
Message - White - Type H Reflective (Detour or temporary Signs - Reflective)  
MG5-1 and MG5-2 Background - Green  
Message - White - Type H Reflective  
MK5-1 and MK5-2 Background - Green  
Message - White Type H Reflective  
MM5-1 and MM5-2 Background - White - Type H Reflective  
Message - Green  
MN5-1 and MN5-2 Background - Brown  
Message - White - Type H Reflective  
MO5-1 and MO5-2 Background - Orange - Reflective  
Message - Black  
MR5-1 and MR5-2 Background - Brown  
Message - Yellow - Type H Reflective
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

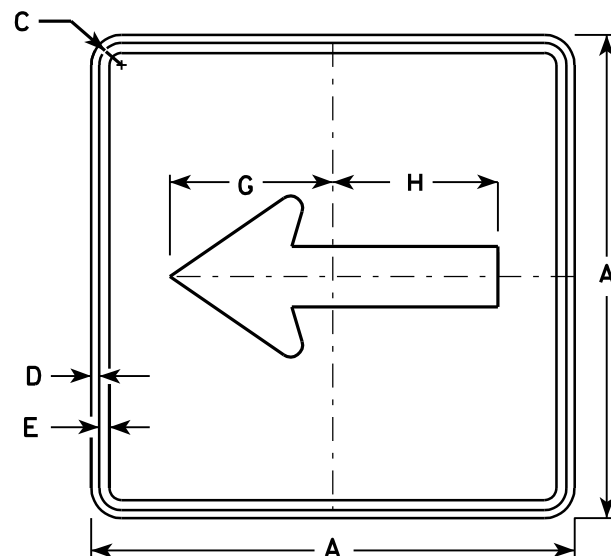
STANDARD SIGN  
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

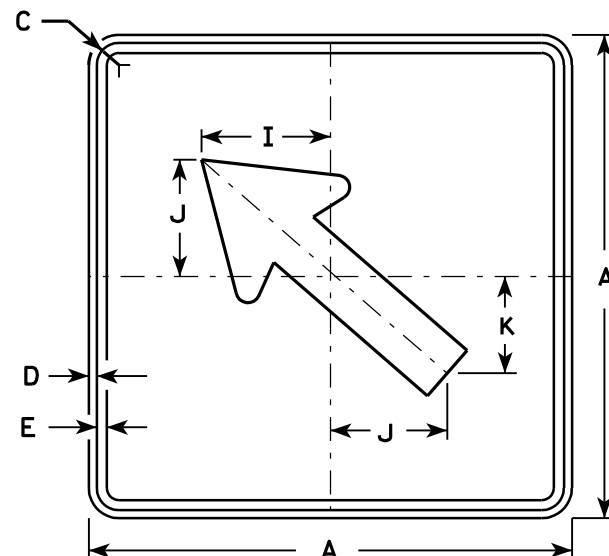
APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M5-1.11

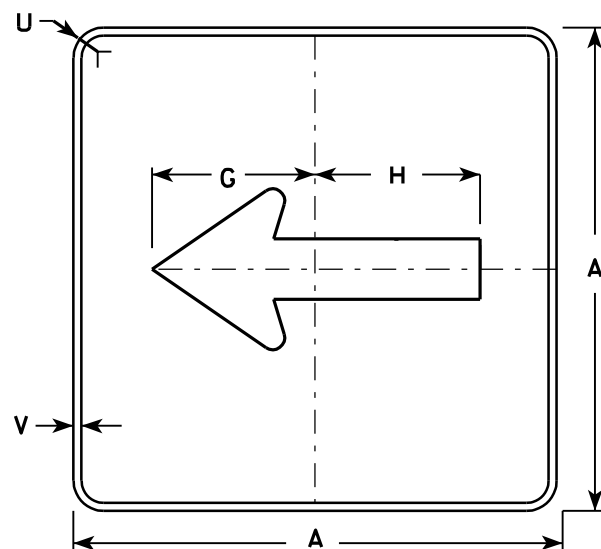




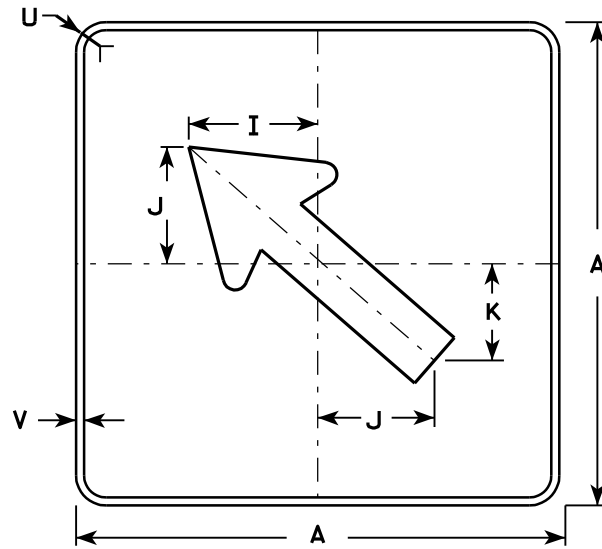
M6-1  
MK6-1  
MM6-1  
MO6-1  
MR6-1



M6-2  
MK6-2  
MM6-2  
MO6-2  
MR6-2



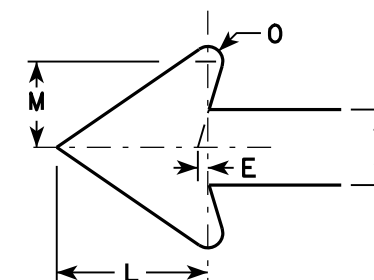
MB6-1  
MG6-1  
MN6-1



MB6-2  
MG6-2  
MN6-2

### NOTES

- Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:  
Background - See note 4  
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M6-1 and M6-2 Background - White - Type H Reflective  
(Detour or temporary Signs - Reflective)  
Message - Black  
MB6-1 and MB6-2 Background - Blue  
Message - White - Type H Reflective  
(Detour or temporary Signs - Reflective)  
MG6-1 and MG6-2 Background - Green  
Message - White - Type H Reflective  
MK6-1 and MK6-2 Background - Green  
Message - White - Type H Reflective  
MM6-1 and MM6-2 Background - White - Type H Reflective  
Message - Green  
MN6-1 and MN6-2 Background - Brown  
Message - White - Type H Reflective  
MO6-1 and MO6-2 Background - Orange - Reflective  
Message - Black  
MR6-1 and MR6-2 Background - Brown  
Message - Yellow - Type H Reflective



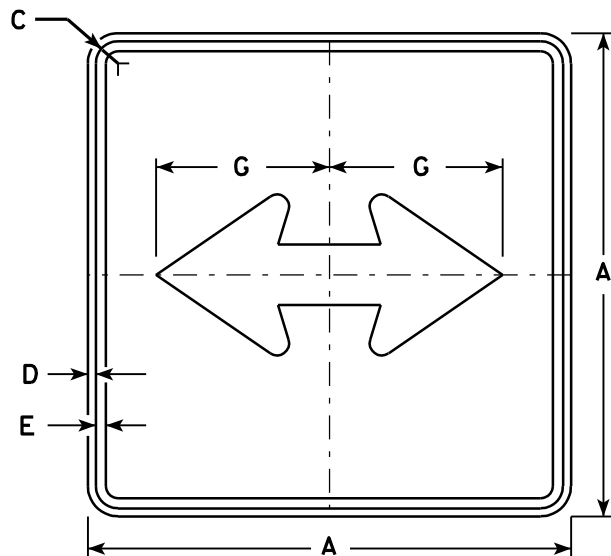
Metric equivalent  
for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

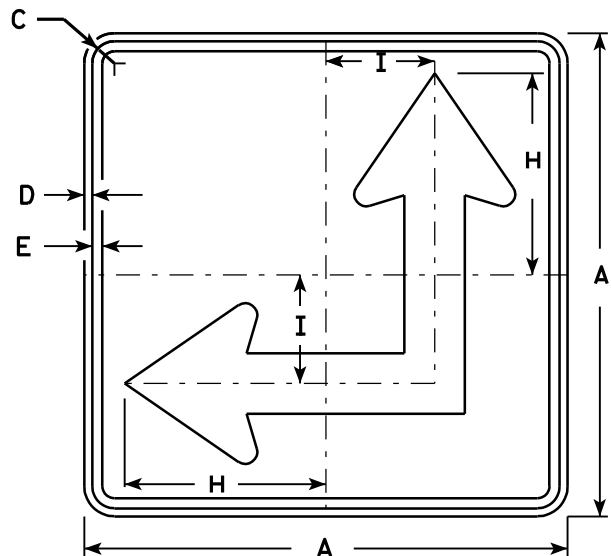
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

PROJECT NO: HWY: COUNTY: SHEET NO: E

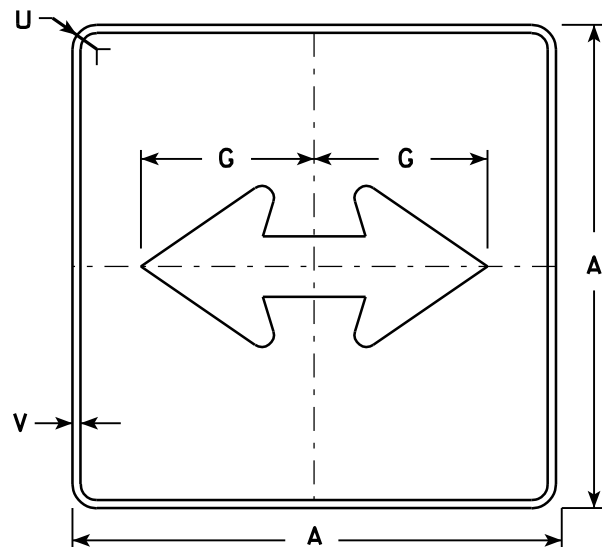




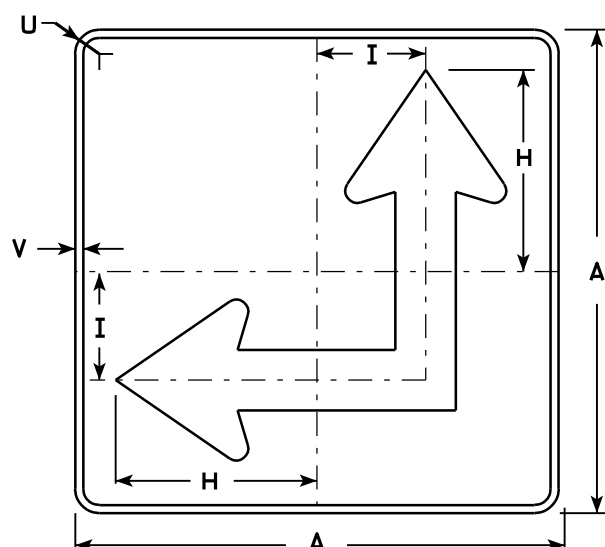
M6 - 4  
MK6 - 4  
MM6 - 4  
MO6 - 4  
MR6 - 4



M6 - 6  
MK6 - 6  
MM6 - 6  
MO6 - 6  
MR6 - 6



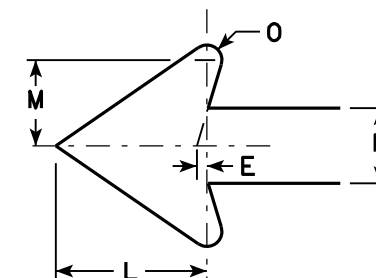
MB6 - 4  
MG6 - 4  
MN6 - 4



MB6 - 6  
MG6 - 6  
MN6 - 6

NOTES

- Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:  
Background - See Note 4  
Message - See Note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M6-4 and M6-6 Background - White - Type H Reflective  
(Detour or temporary Signs - Reflective)  
Message - Black  
MB6-4 and MB6-6 Background - Blue  
Message - White - Type H Reflective  
(Detour or temporary Signs - Reflective)  
MG6-4 and MG6-6 Background - Green  
Message - White - Type H Reflective  
MK6-4 and MK6-6 Background - Green  
Message - White - Type H Reflective  
MM6-4 and MM6-6 Background - White - Type H Reflective  
Message - Green  
MN6-4 and MN6-6 Background - Brown  
Message - White - Type H Reflective  
MO6-4 and MO6-6 Background - Orange - Reflective  
Message - Black  
MR6-4 and MR6-6 Background - Brown  
Message - Yellow - Type H Reflective
- M6-6R same as M6-6L except arrow points ahead and right.



Metric equivalent  
for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area sq.
1																												
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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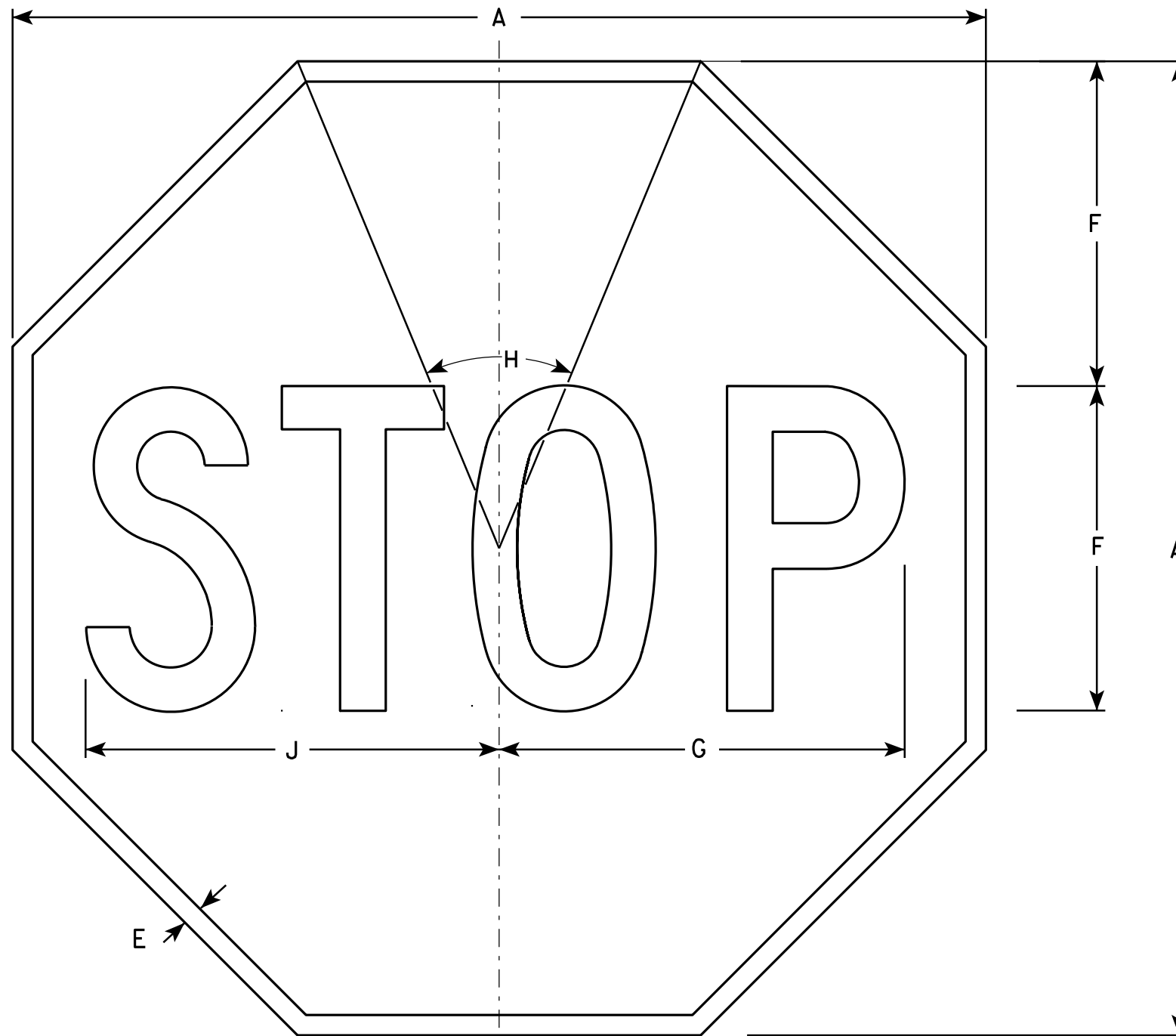
STANDARD SIGN  
M6 - 4 & M6 - 6  
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M6-4.7





**NOTES**

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

R1-1

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN  
R1-1

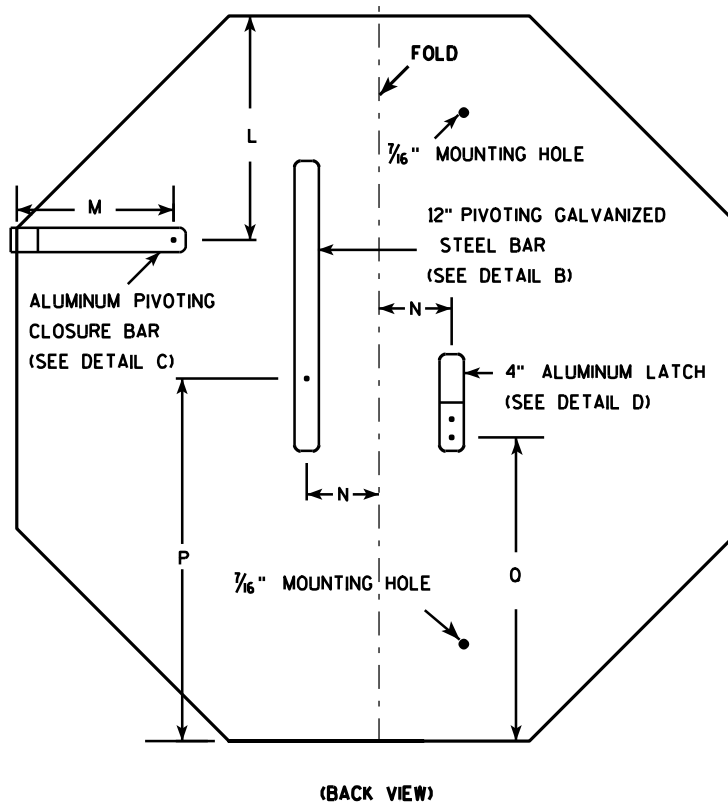
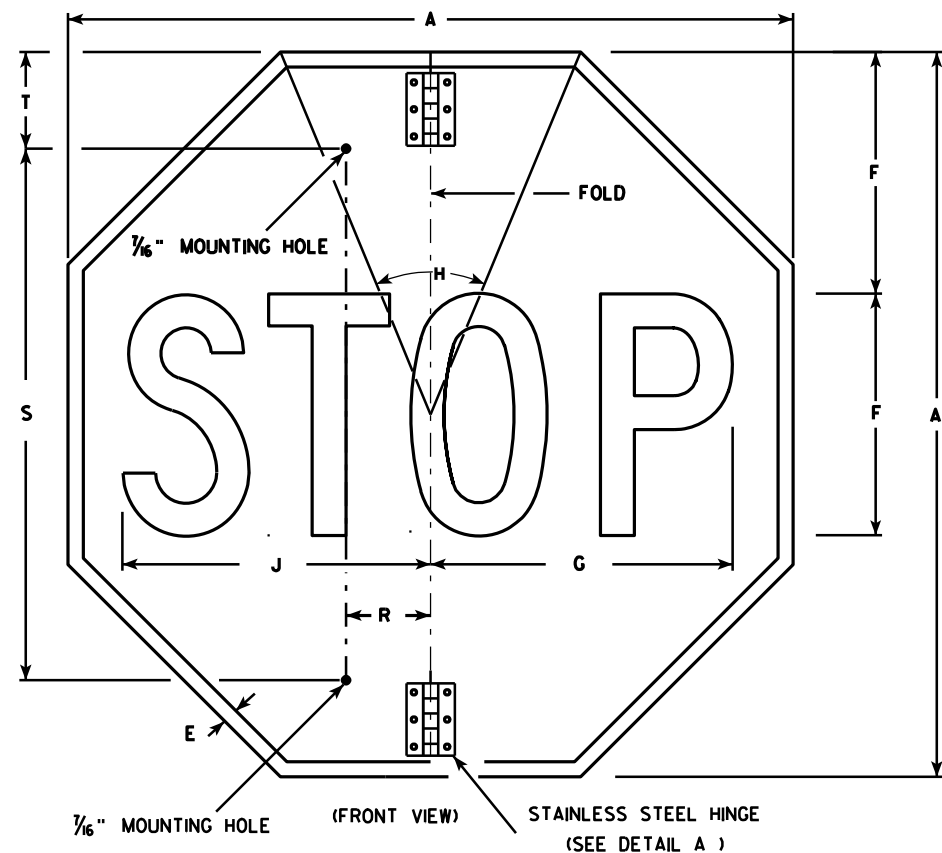
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

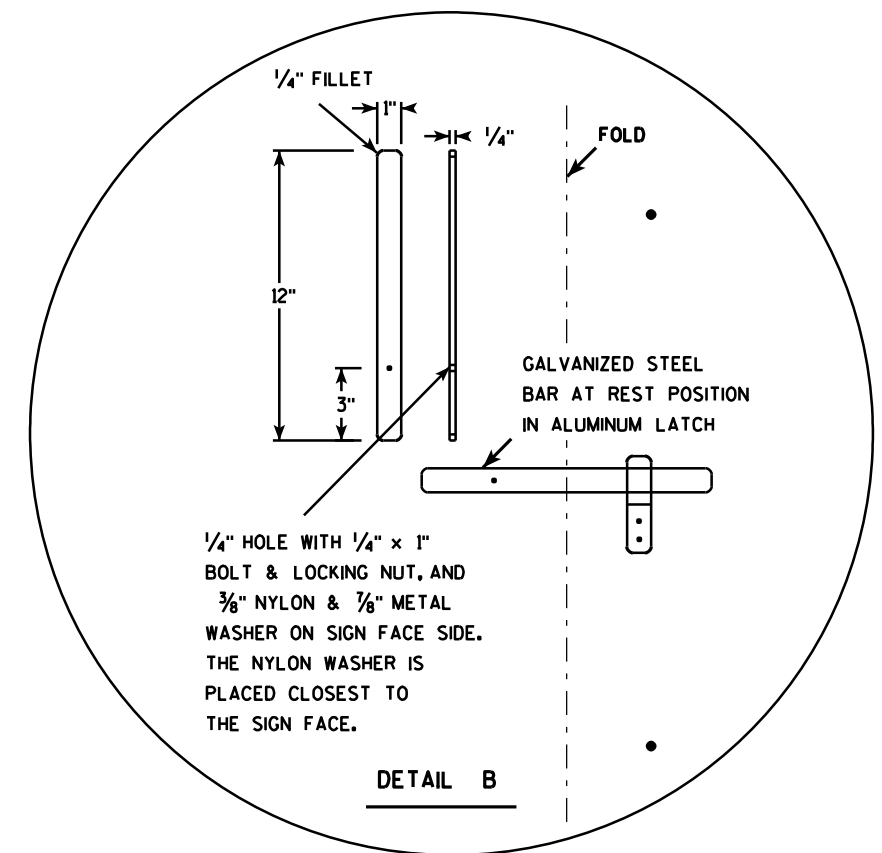
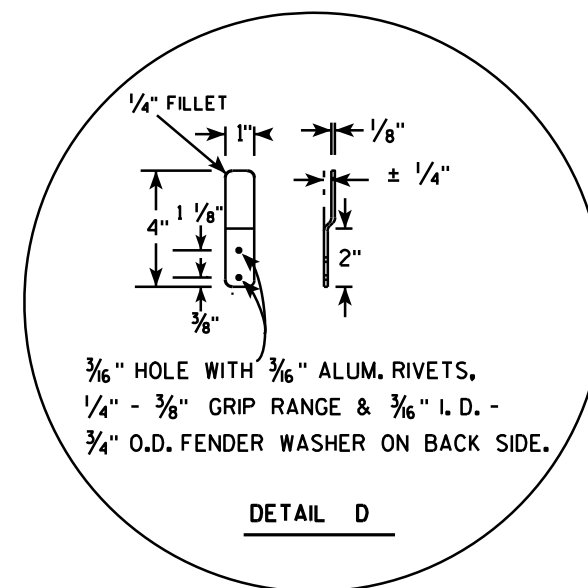
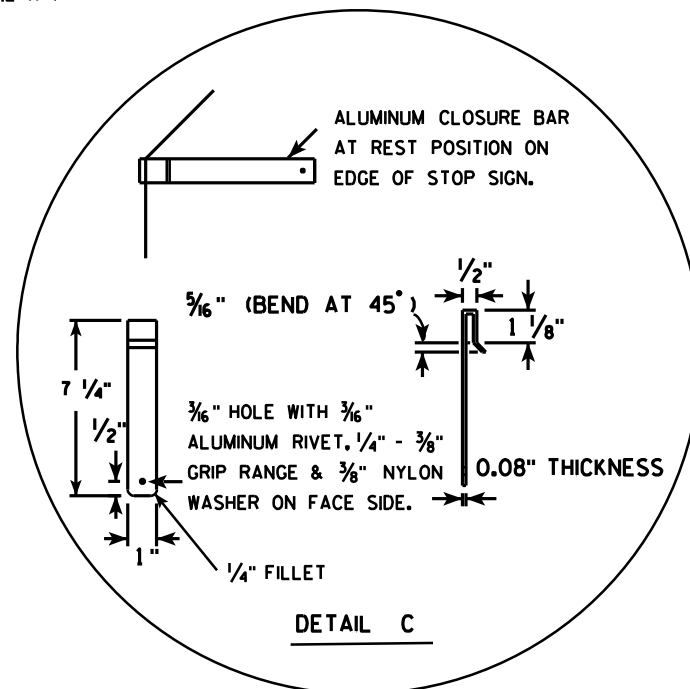
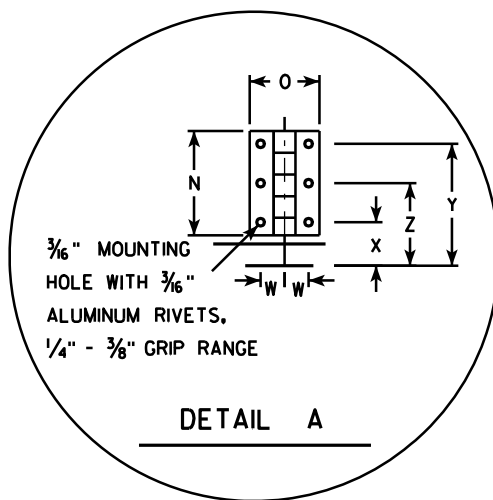
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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# NOTES

- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:  
Background - Red  
Message - White
- Message Series - C
- All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.

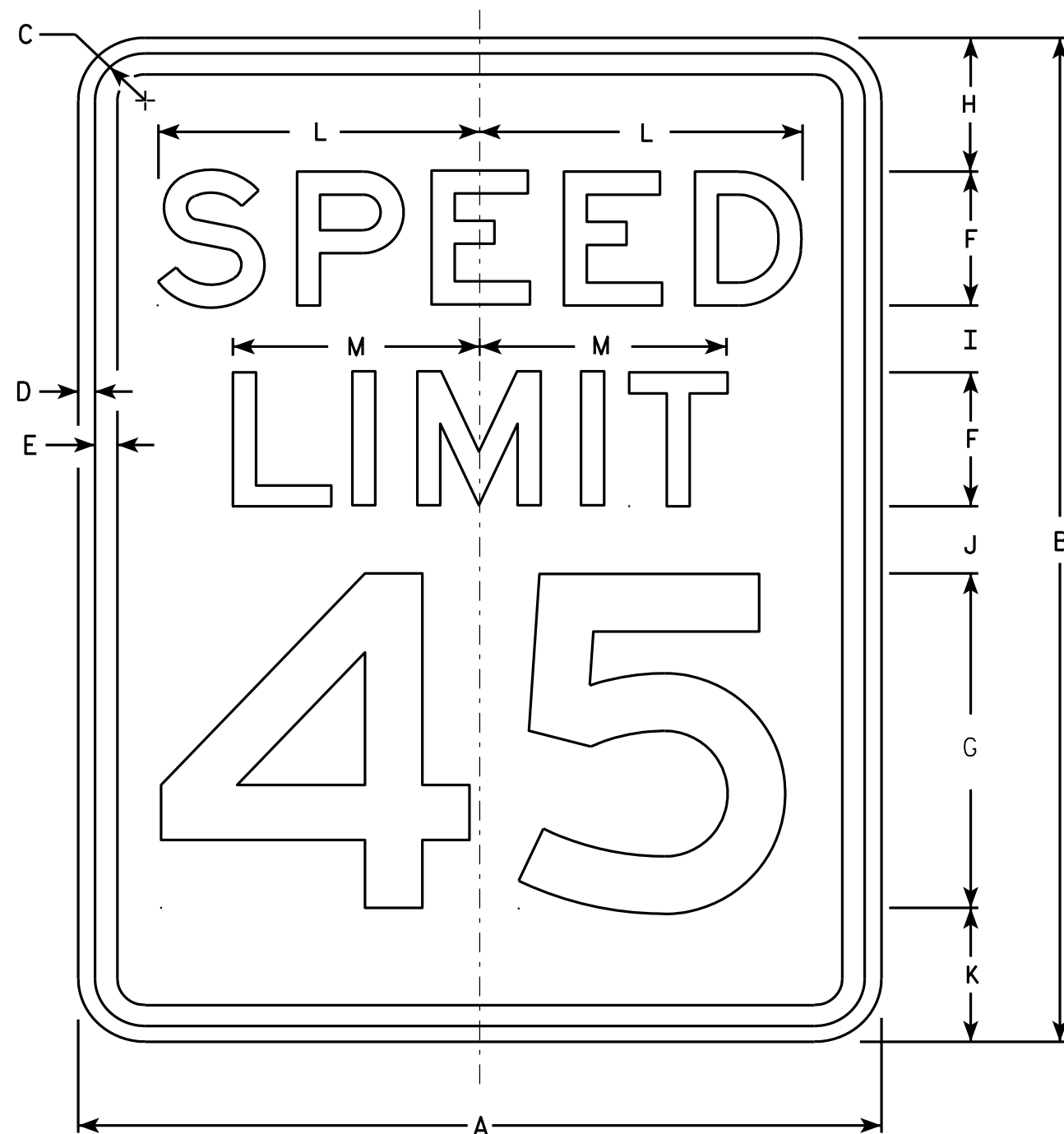


SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/8	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/8	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/8	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

STANDARD SIGN R1-1F	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 12/03/10	PLATE NO. R1-1F.3

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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R2-1

NOTES

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

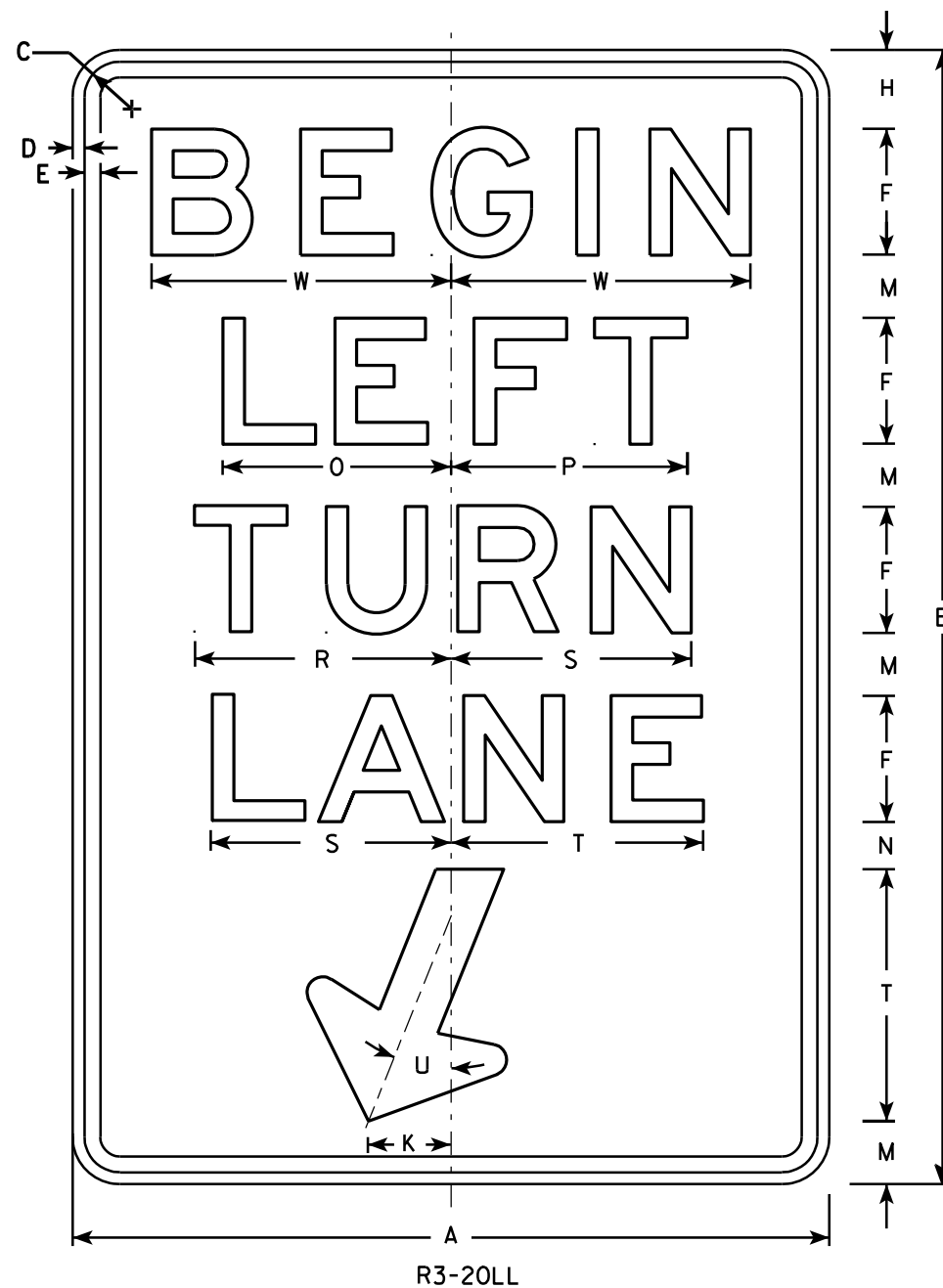
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8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

STANDARD SIGN  
R2-1

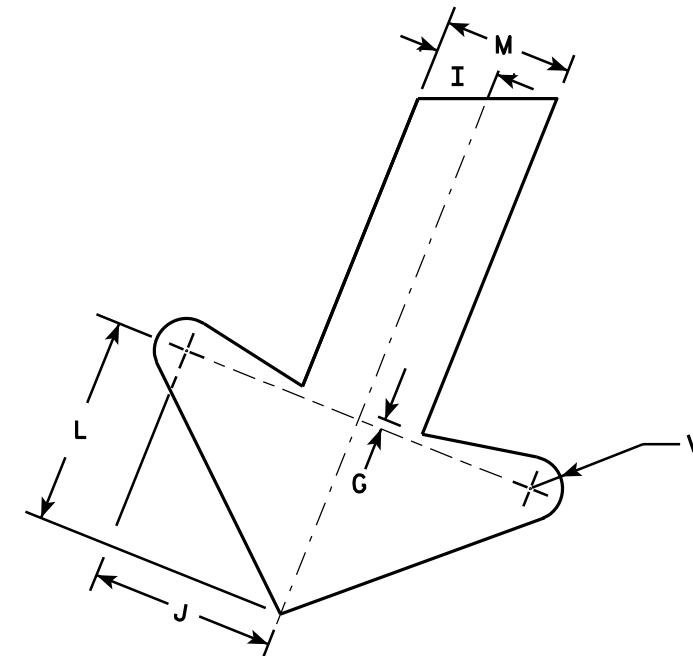
WISCONSIN DEPT OF TRANSPORTATION  
APPROVED *Matthew R. Rauch*  
For State Traffic Engineer  
DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: HWY: COUNTY: SHEET NO: E





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



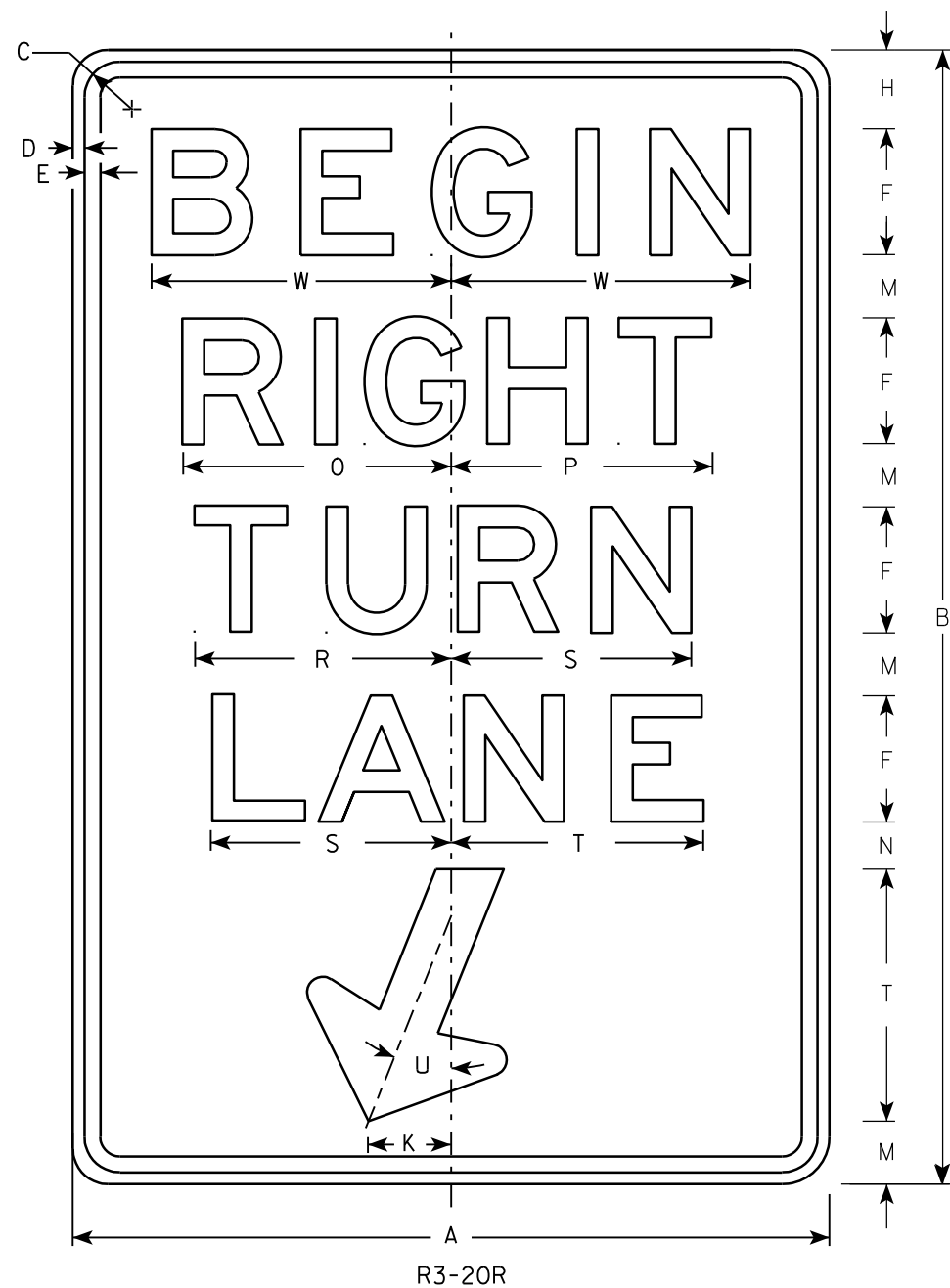
**ARROW DETAIL**

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	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

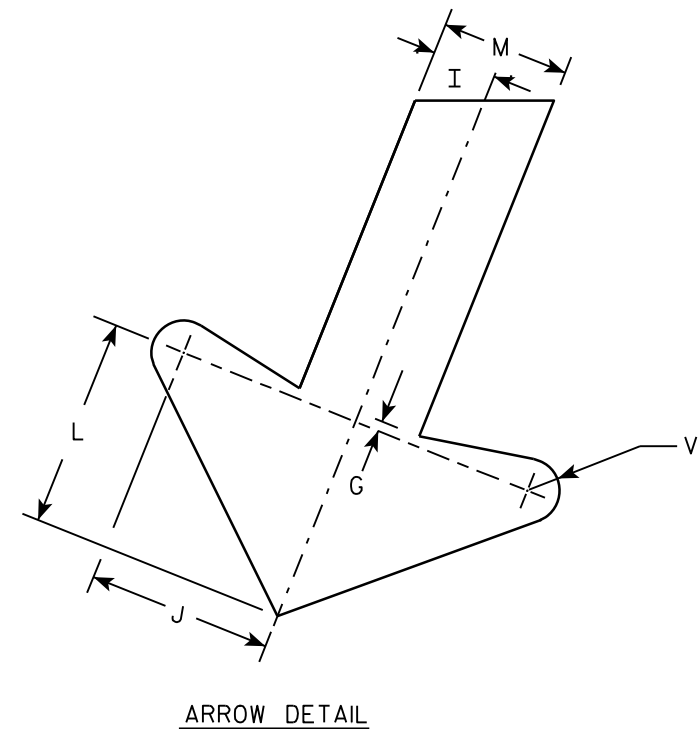
<b>STANDARD SIGN</b> <b>R3-20LL</b>	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 10/18/10	PLATE NO. R3-20LL.1

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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- NOTES
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
  2. Color:  
Background - White  
Message - Black
  3. Message Series - E
  4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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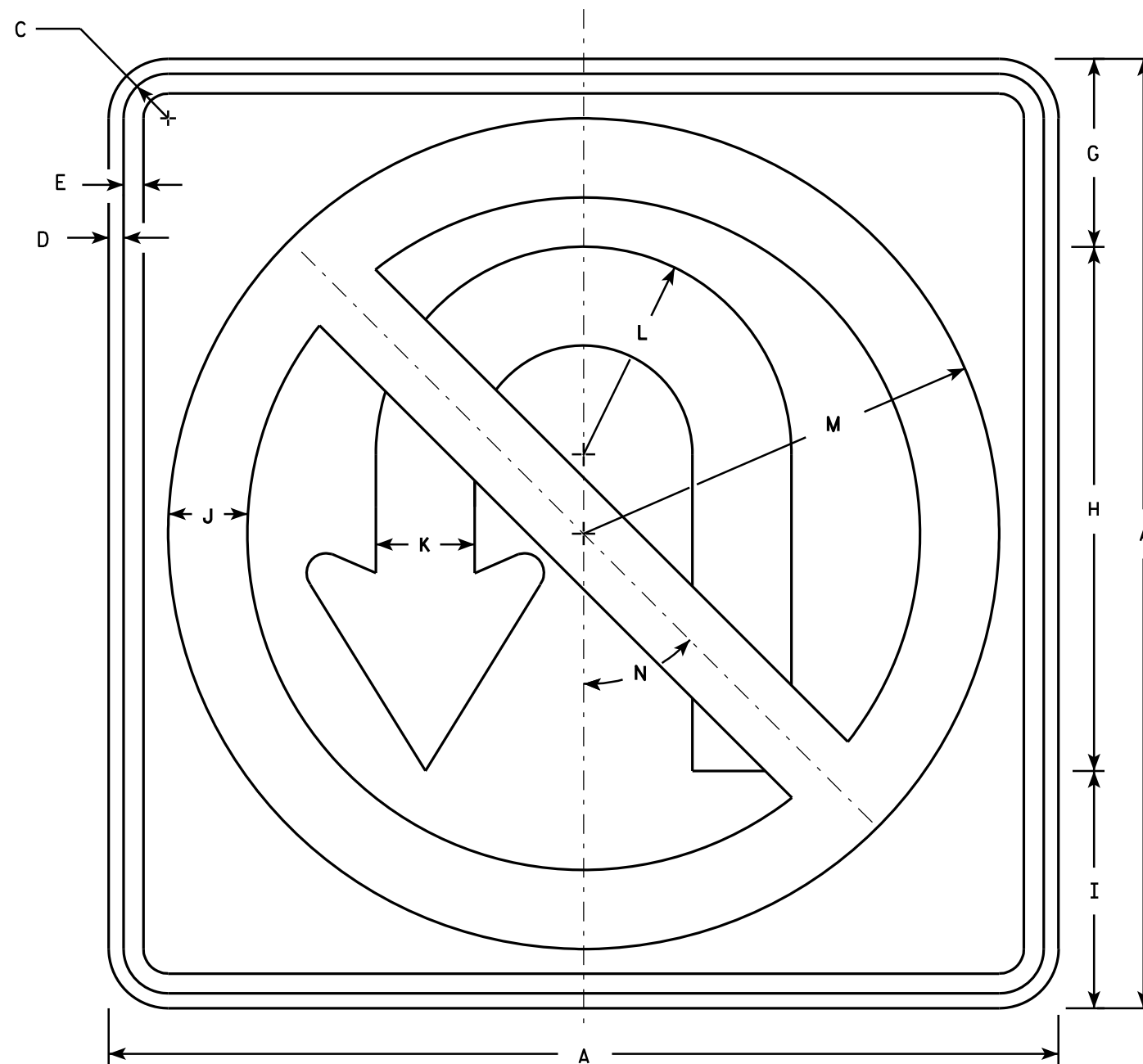
STANDARD SIGN  
R3-20R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20R.6

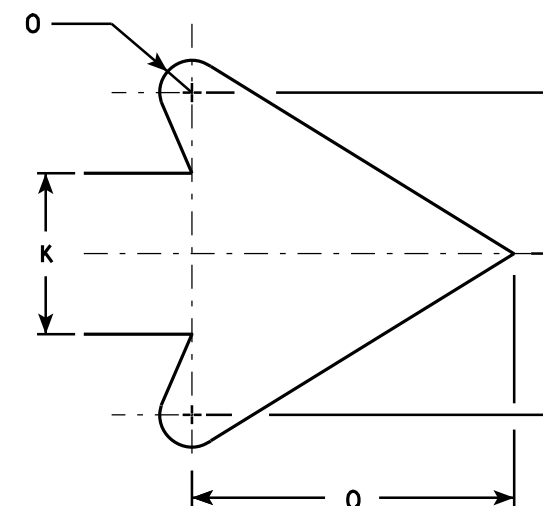




R3-4

### NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - White  
Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



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	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
3	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
4	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
5	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0

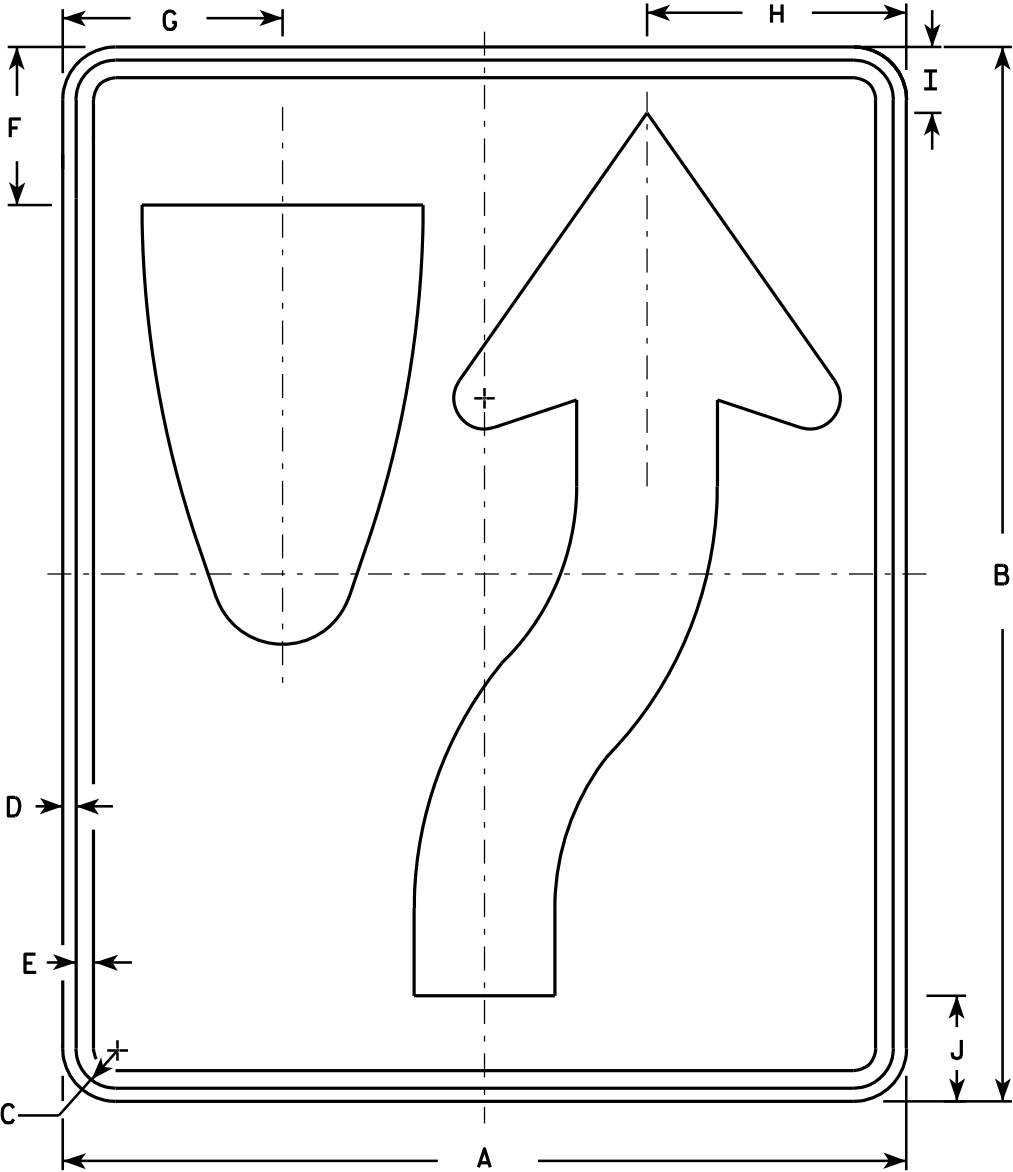
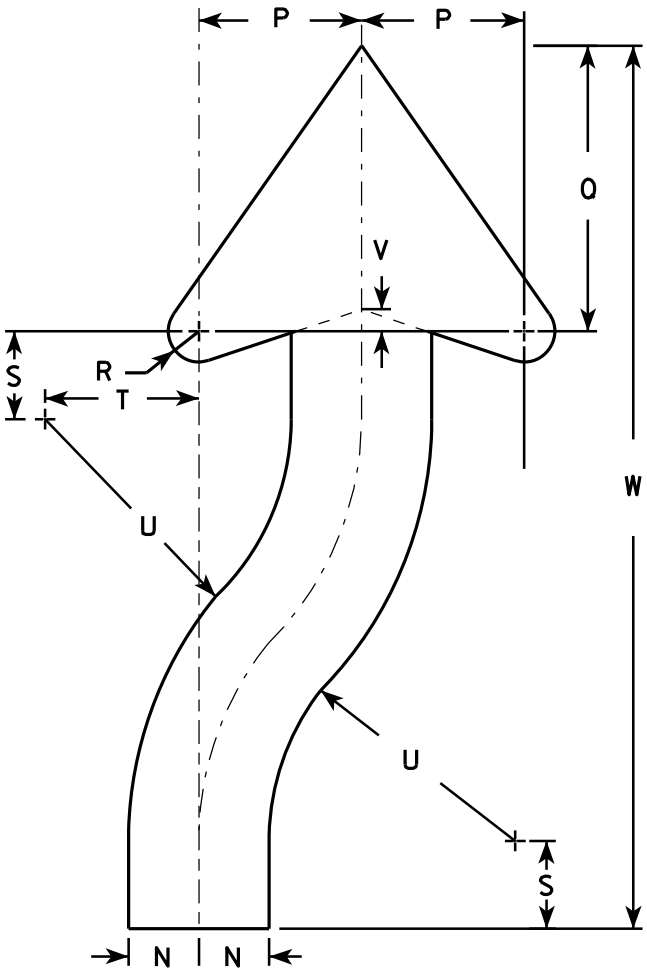
STANDARD SIGN	
R3-4	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 12/08/10	PLATE NO. R3-4.11

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

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:  
Background - White  
Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

STANDARD SIGN  
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

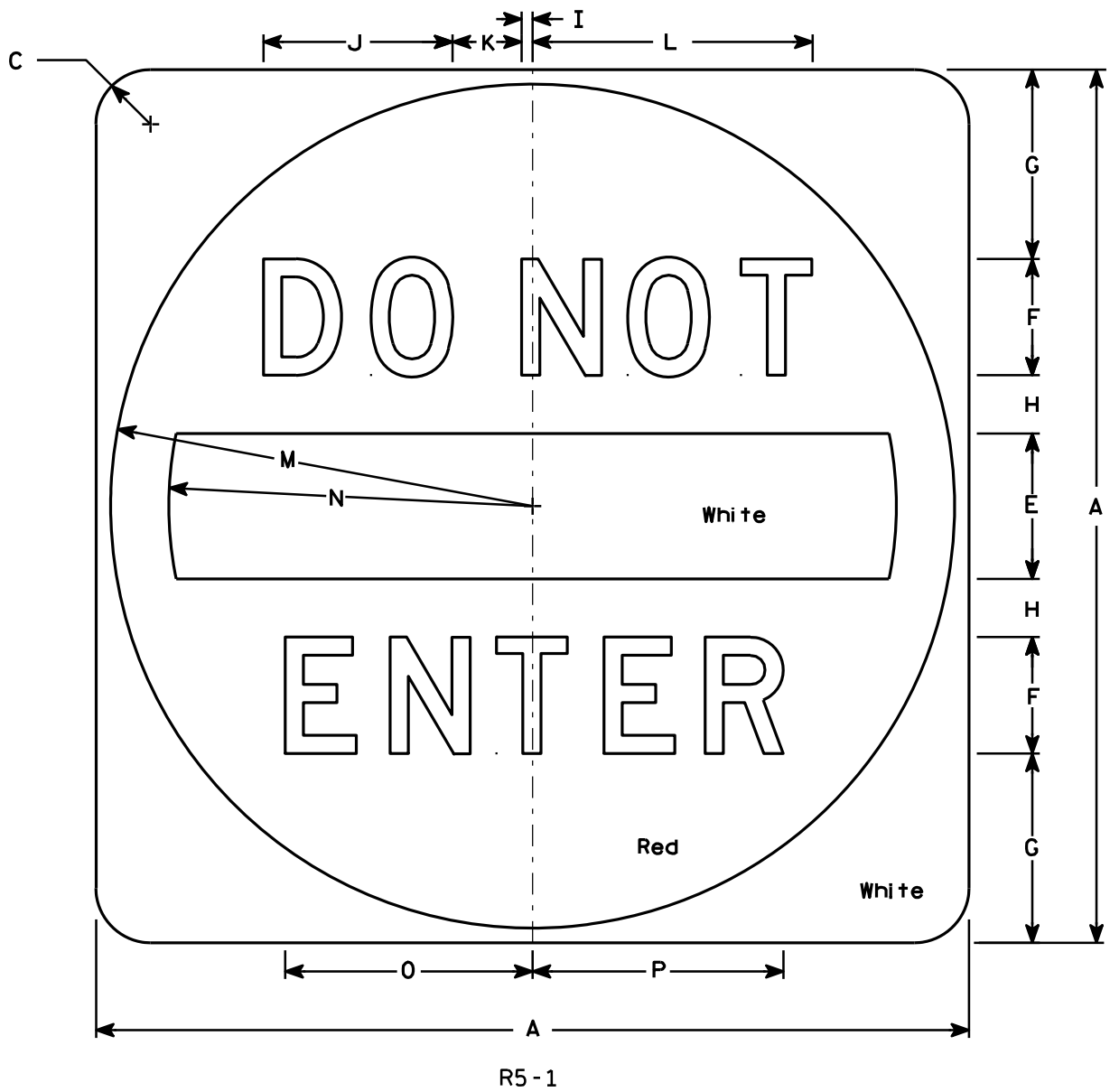
APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8



NOTES

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

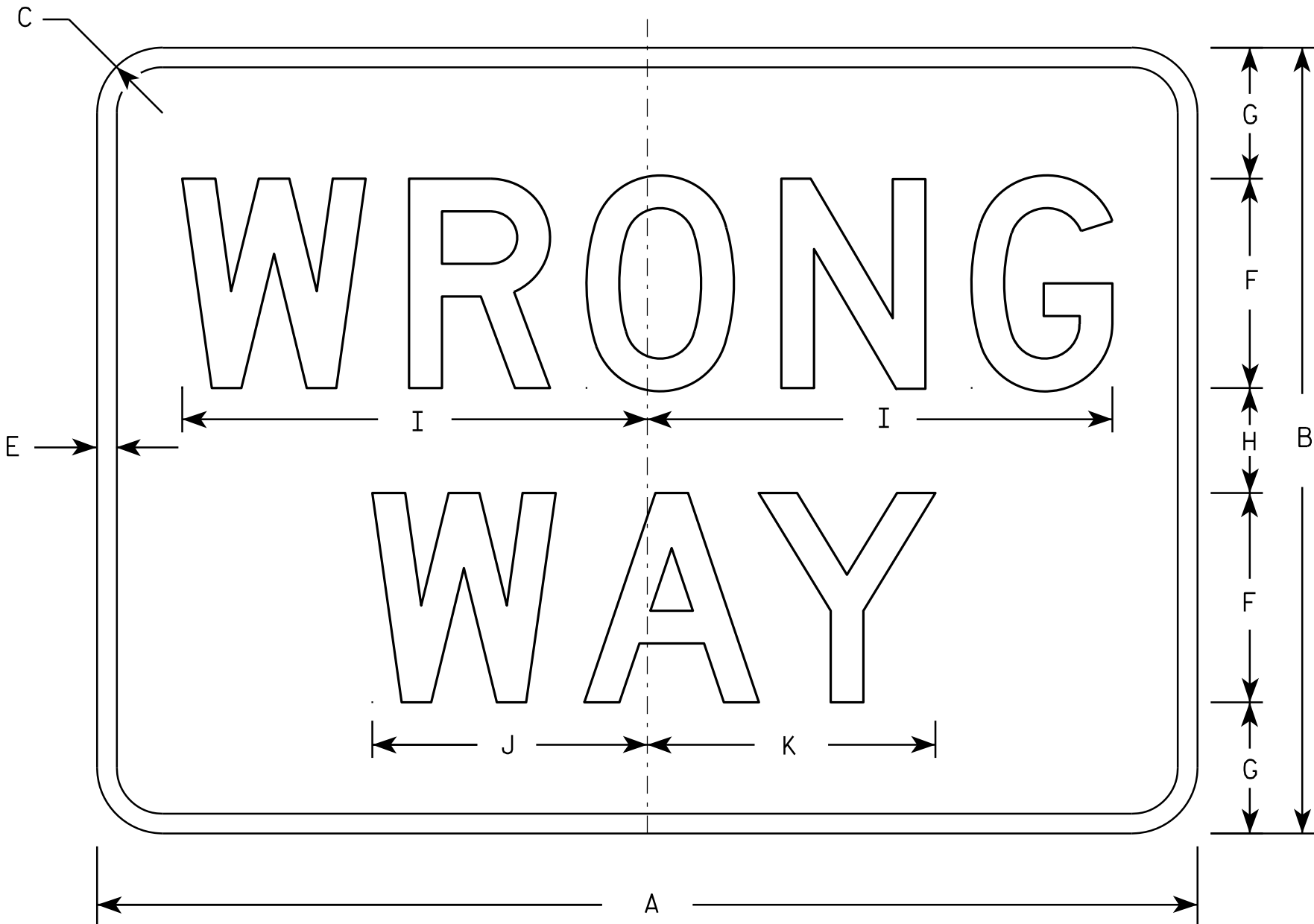


SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7⁄8		5	4	6 1⁄2	2	3⁄8	6 1⁄2	2 3⁄8	9 5⁄8	14 1⁄2	12 1⁄2	8 1⁄2	8 5⁄8											6.26
2M	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2	1⁄2	8 1⁄8	3	12 1⁄8	17 1⁄2	15	10 5⁄8	10 3⁄4											9.0
3	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2	1⁄2	8 1⁄8	3	12 1⁄8	17 1⁄2	15	10 5⁄8	10 3⁄4											9.0
4	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2	1⁄2	8 1⁄8	3	12 1⁄8	17 1⁄2	15	10 5⁄8	10 3⁄4											9.0
5	48		3		8	6	11	3	5⁄8	9 3⁄4	3 5⁄8	14 1⁄2	23 1⁄2	20	12 3⁄4	12 7⁄8											16.0

STANDARD SIGN	
R5 - 1	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 12/17/10	PLATE NO. R5-1.15

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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R5-1A

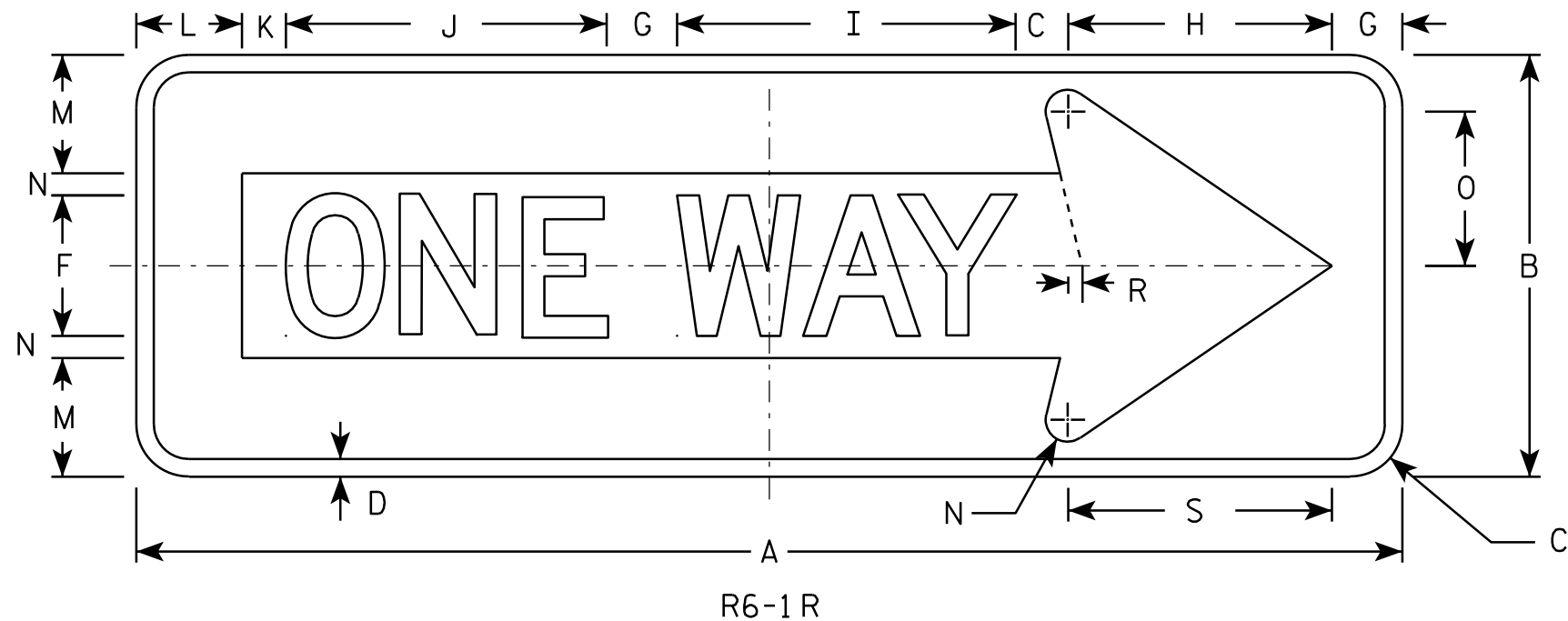
NOTES

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

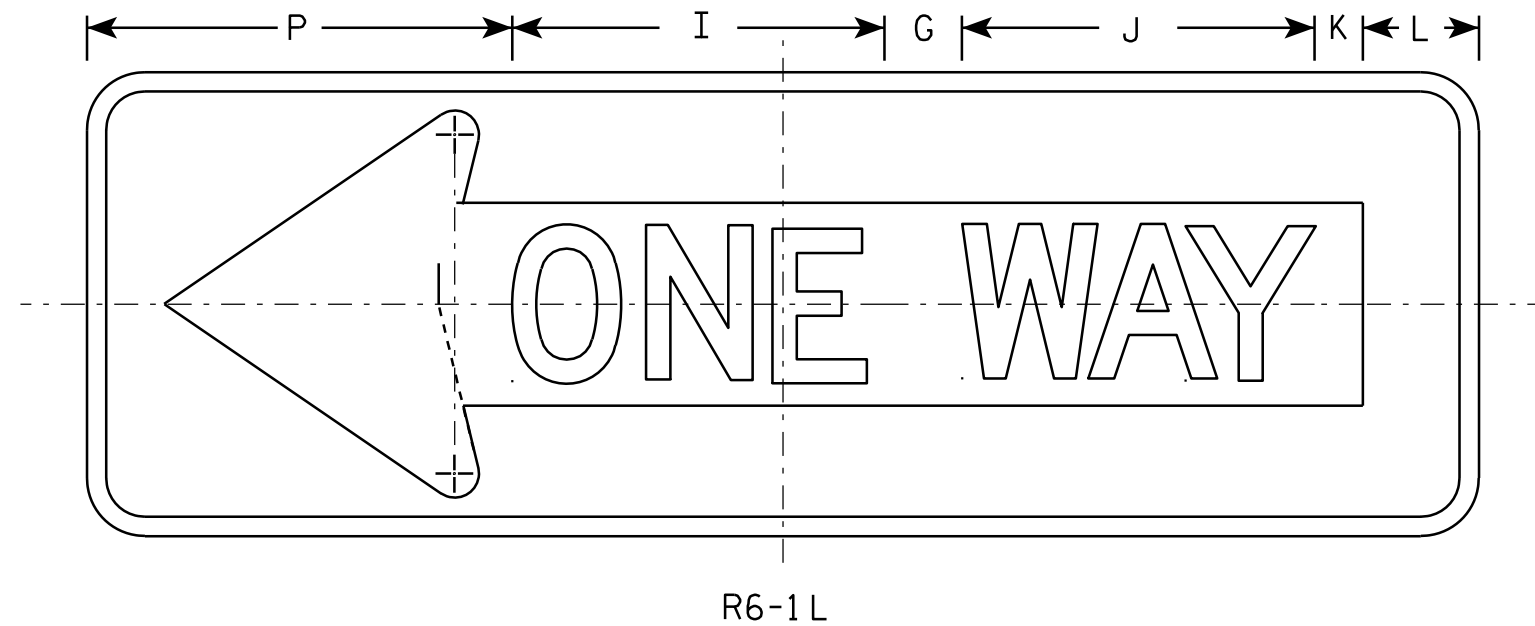
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

STANDARD SIGN R5-1A	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 12/17/10	PLATE NO. R5-1A.2





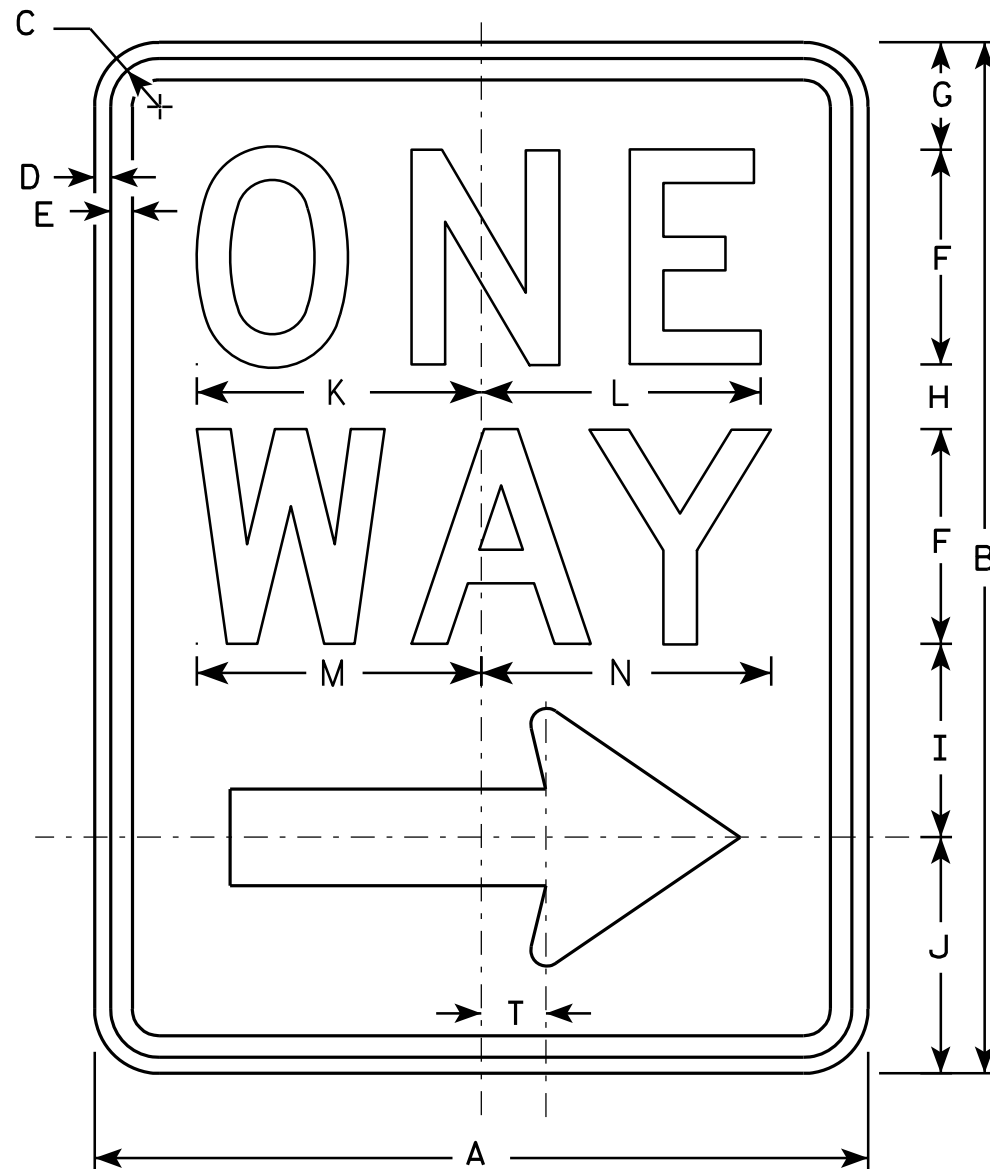
- NOTES
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
  2. Color:  
Background - BLACK  
Message - BLACK LEGEND & WHITE ARROW & BORDER
  3. Message Series - D
  4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2							3.0	
2M	54	18	2 1/4	3/4		6	3	11 1/4	14 1/2	13 5/8	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4							6.75	
3	54	18	2 1/4	3/4		6	3	11 1/4	14 1/2	13 5/8	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4							6.75	
4	54	18	2 1/4	3/4		6	3	11 1/4	14 1/2	13 5/8	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4							6.75	
5																											

<b>STANDARD SIGN</b>	
<b>R6-1 L &amp; R</b>	
<small>WISCONSIN DEPT OF TRANSPORTATION</small>	
<small>APPROVED</small>	 <small>for State Traffic Engineer</small>
<small>DATE 12/17/10</small>	<small>PLATE NO. R6-1.2</small>

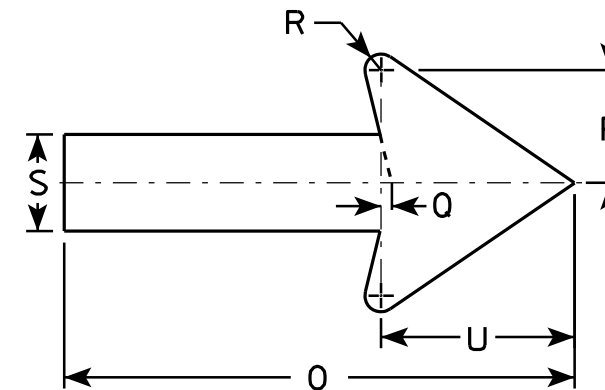




R6-2R

### NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - White  
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN

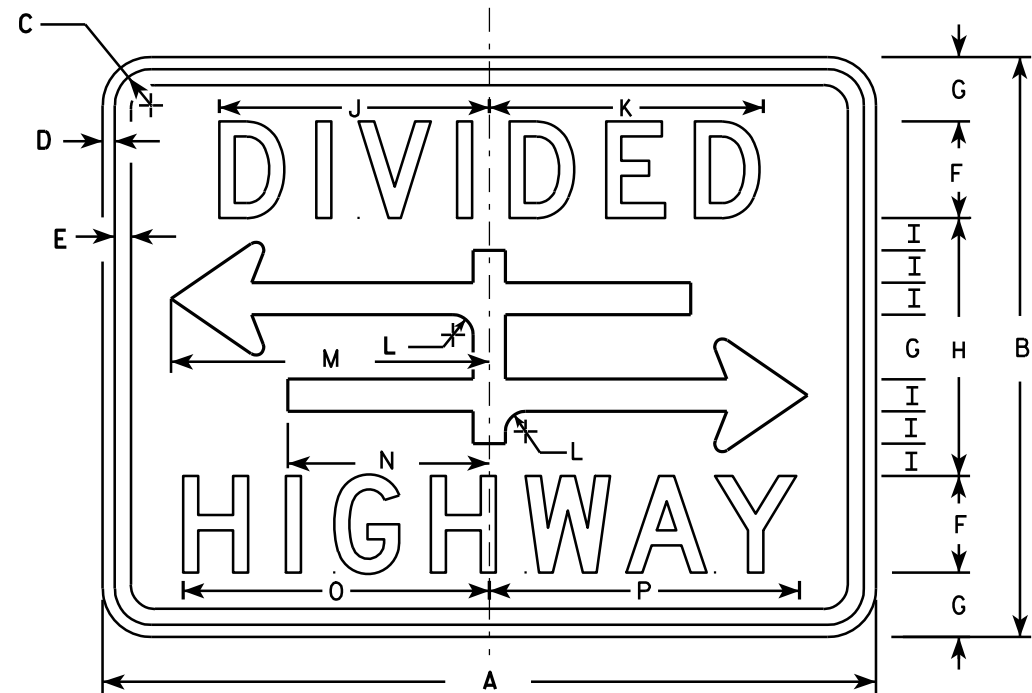
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

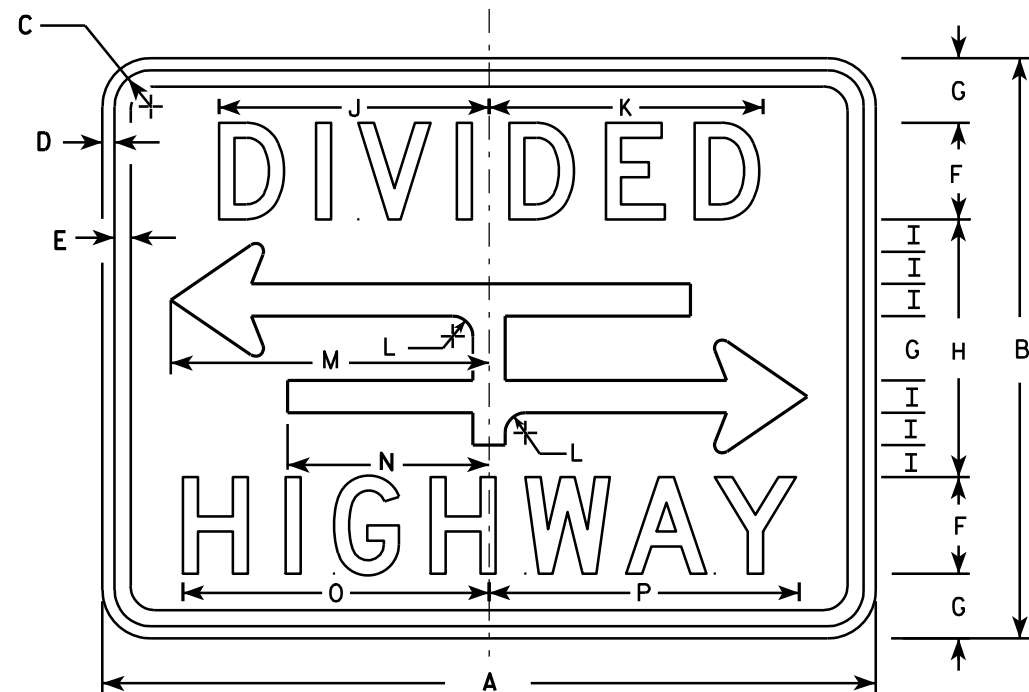
APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8





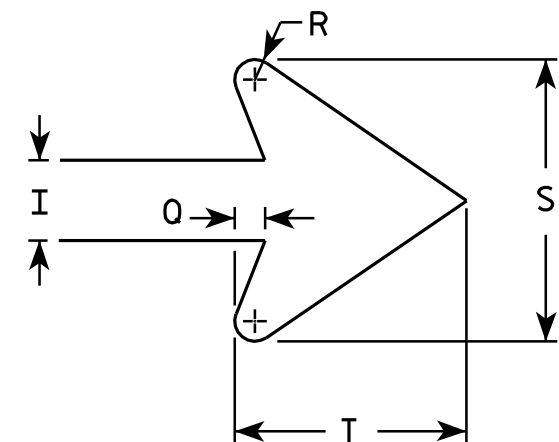
R6-3



R6-3A

### NOTES

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



ARROW DETAIL

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

### STANDARD SIGN R6-3 & R6-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

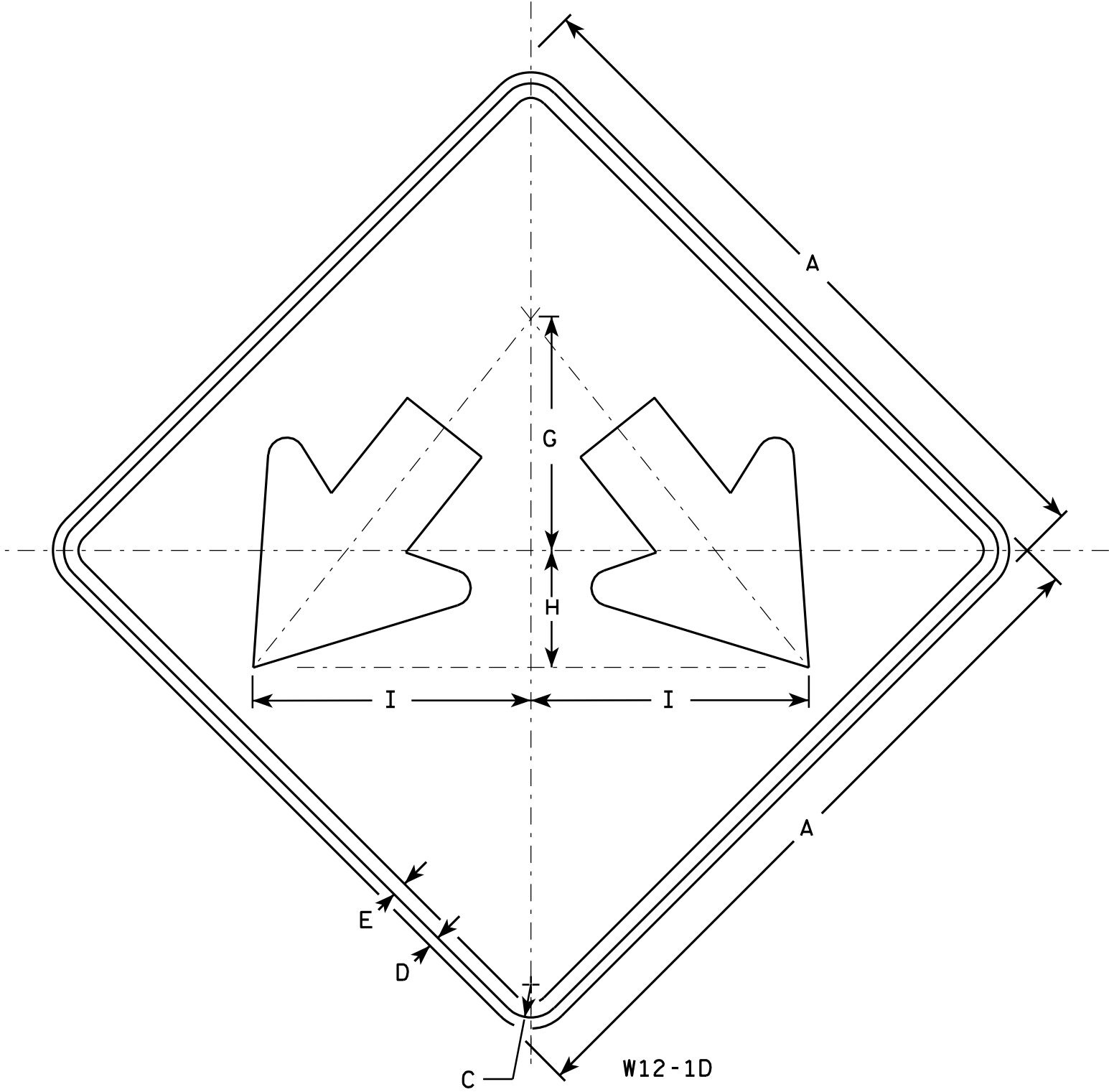
DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

SHEET NO:

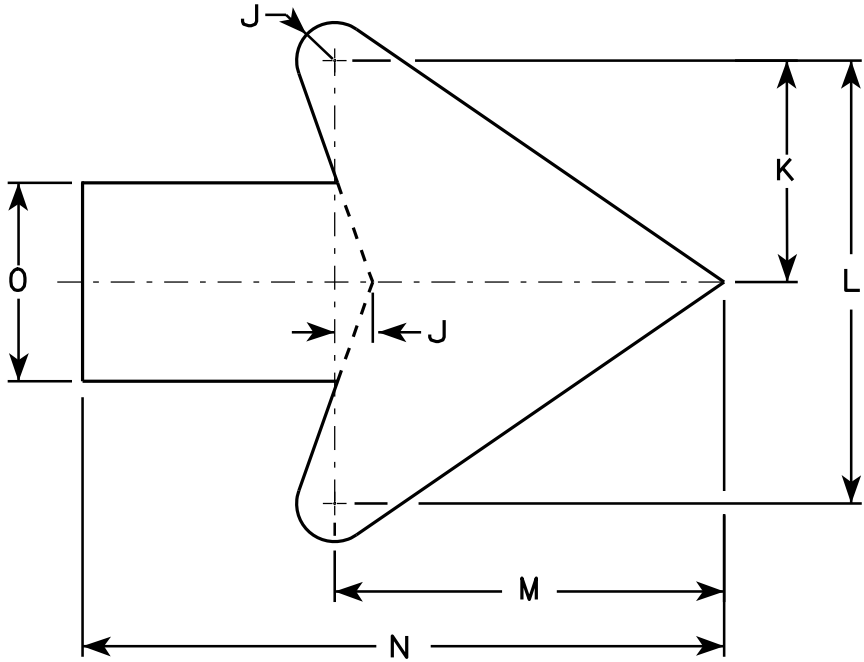
E





NOTES

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



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	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

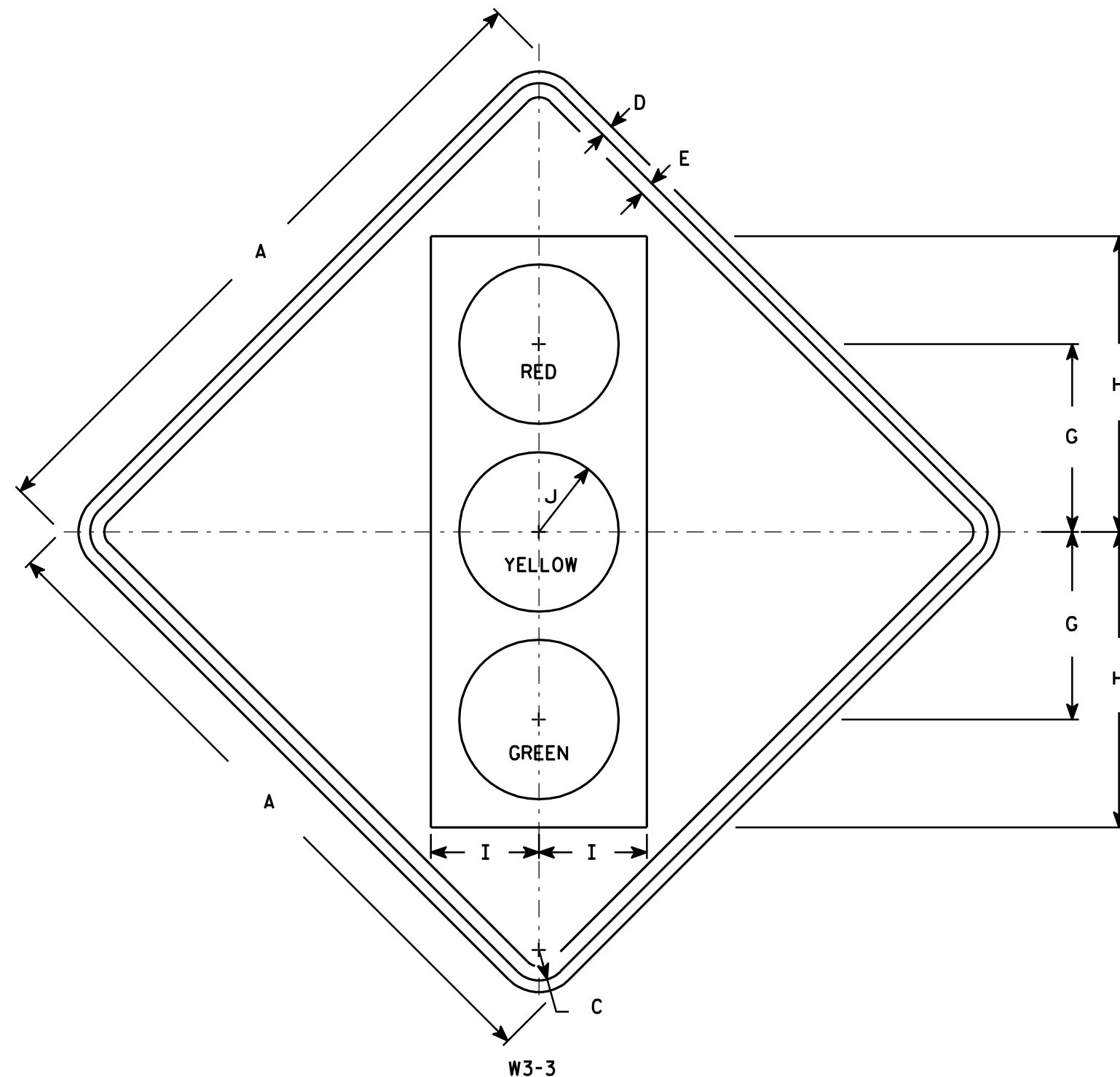
STANDARD SIGN  
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED  
*Matthew R. Rauch*  
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15





# NOTES

- Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:  
Background - Yellow  
Message - See Note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- Symbol and border are non-reflective black.  
Top circle - Type H Reflectorized Red  
Center circle - Same as background  
Bottom circle - Type H Reflectorized Green

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

## STANDARD SIGN W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

*Matthew R. Rauch*  
for State Traffic Engineer

DATE 6/7/10

PLATE NO. W3-3.11

PROJECT NO:

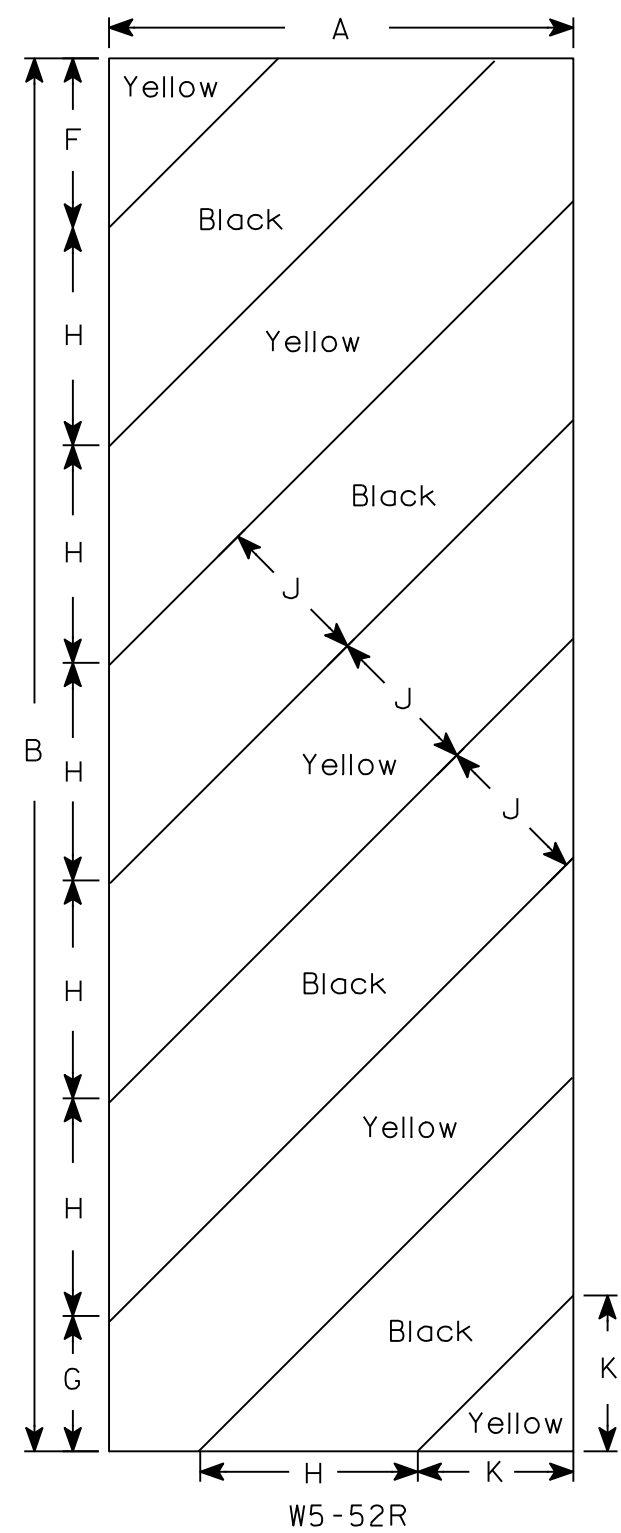
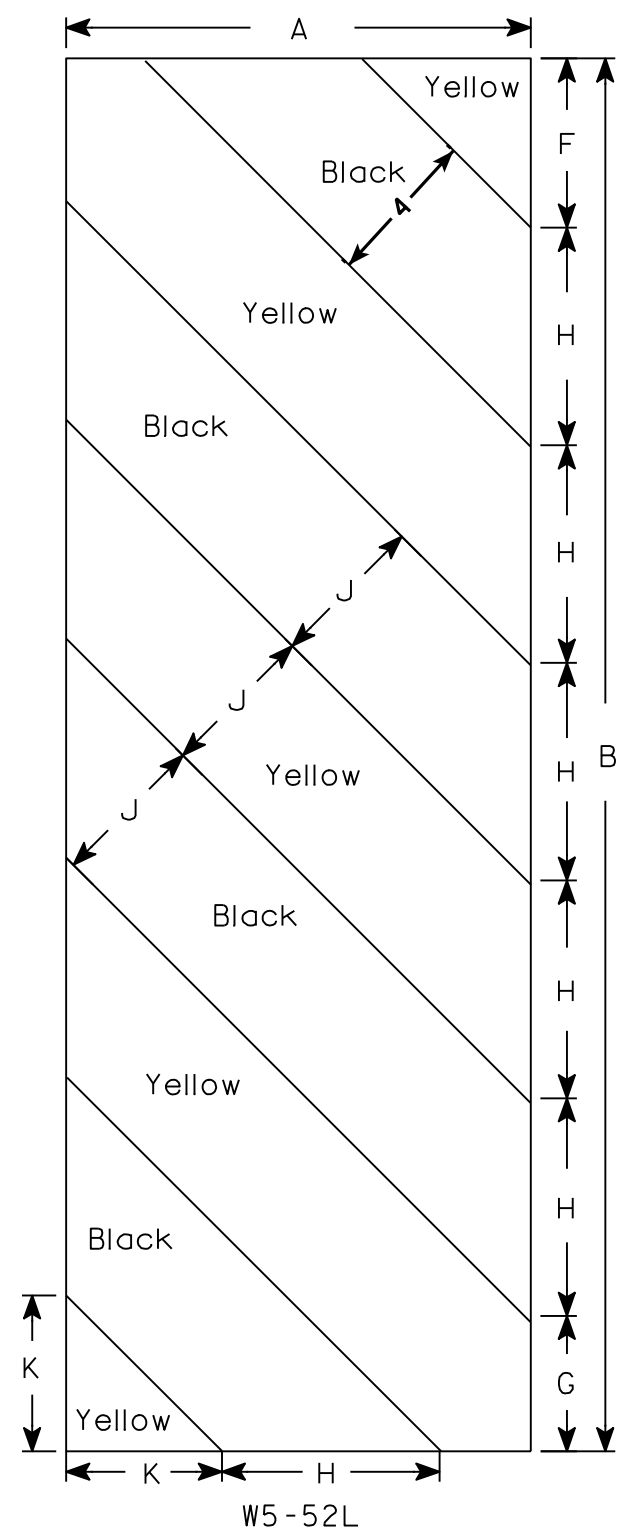
HWY:

COUNTY:

SHEET NO:

E





NOTES

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

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	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 5/6																6.75
4																											
5																											

STANDARD SIGN  
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

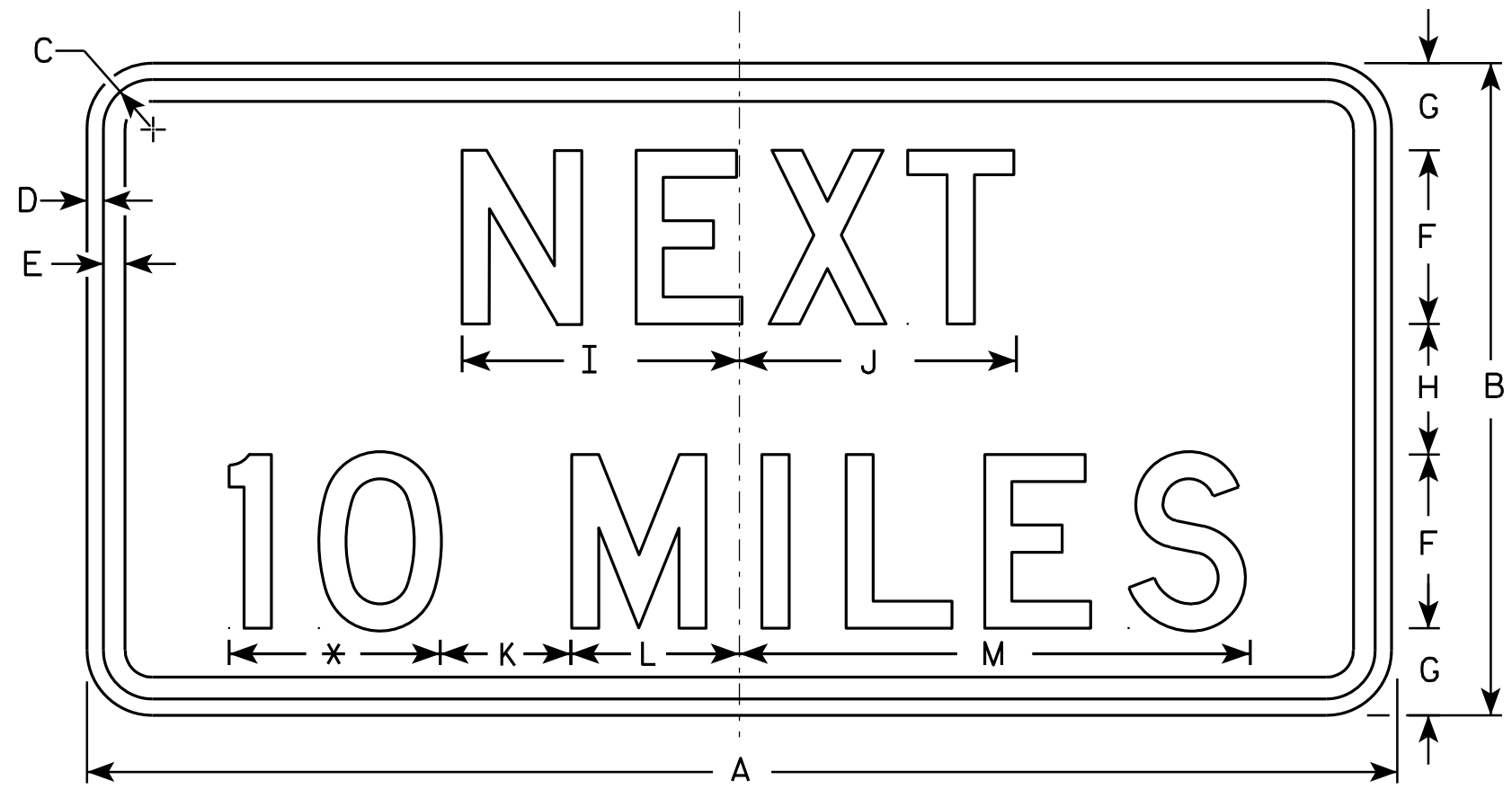
E



NOTES

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

\* See note 5



W57-51

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/8	3/8	3/8	3	1 3/4	2 1/2	5	5 1/8	3	2 3/4	9 5/8														2.0
2S	30	15	1 1/8	3/8	1/2	4	2	3	6 3/8	6 3/8	3	3 7/8	11 3/4														3.13
2M	36	18	1 1/8	3/8	1/2	5	2 5/8	2 3/4	7 7/8	8	5	4 1/8	15 3/8														4.5
3	36	18	1 1/8	3/8	1/2	5	2 5/8	2 3/4	7 7/8	8	5	4 1/8	15 3/8														4.5
4	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
5	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0

STANDARD SIGN  
W57-51

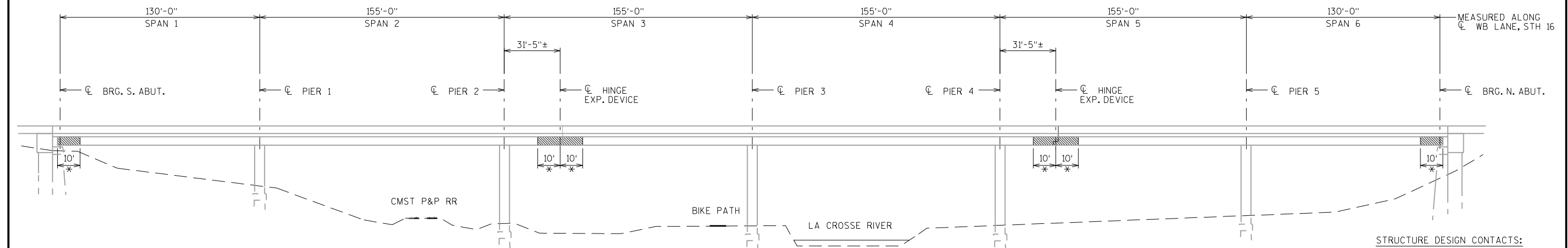
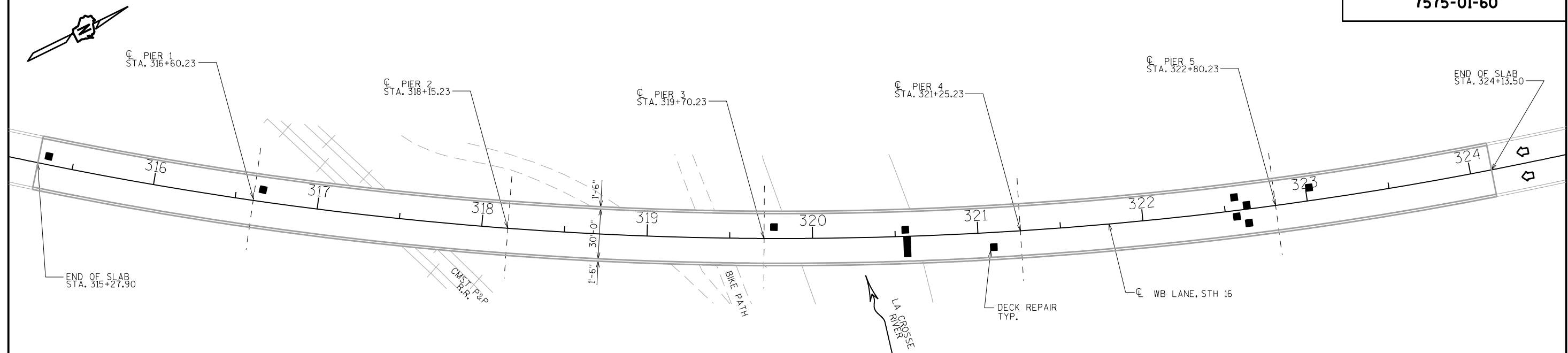
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W57-51.9

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STRUCTURE DESIGN CONTACTS:

ANDREW SMITH (608) 266-0989  
DAVID KIEKBUSCH (608) 266-5084**GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

\* CLEAN AND PAINT ALL EXISTING EXPOSED SUPERSTRUCTURE STEEL WITHIN THE FOLLOWING LIMITS:


- 10- FEET TO EITHER SIDE OF THE  $\phi$  HINGE EXPANSION DEVICES (IN SPAN 3 & 5)
- 10- FEET FROM THE END OF GIRDERS AT BOTH ABUTMENTS

PAINT ALL GIRDERS, DIAPHRAGMS, HARDWARE, HINGES AND BEARINGS INCLUDED IN THESE LIMITS. THE COLOR SHALL BE BROWN, (FEDERAL STANDARD COLOR NO. 20059) OR SIMILAR COLOR APPROVED BY THE ENGINEER.

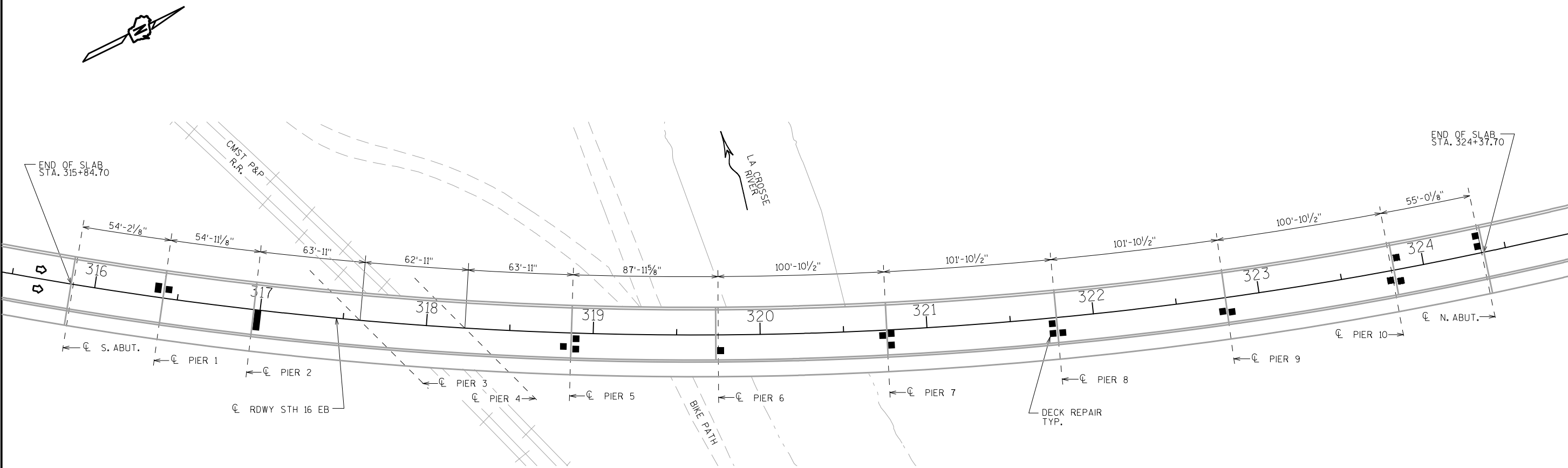
APPROXIMATE DECK REPAIR LOCATIONS SHOWN. ACTUAL LOCATIONS TO BE DETERMINED BY FIELD ENGINEER.

**TOTAL ESTIMATED QUANTITIES**

517.1800:5	STRUCTURE REPAINTING RECYCLED ABRASIVE STRUCTURE B-32-111	1	LS
SPV.0165	FAST SET DECK PATCHING	101	SF

NO.	DATE	REVISION	BY
 Plans Prepared By <b>WISDOT</b> <b>BUREAU OF STRUCTURES</b>			
ACCEPTED <i>William C. Diehn</i> <b>3/21/13</b>		DATE	
CHIEF STRUCTURES DESIGN ENGINEER			
<b>STRUCTURE B-32-111</b>			
STH 16 WB OVER LA CROSSE RIVER			
COUNTY	LA CROSSE	TOWN/CITY/VILLAGE	LA CROSSE
DESIGN SPEC.	REHABILITATION	N/A	
DESIGNED BY	ADS	DESIGN CK'D.	DRAWN BY
ADS		ADS	PLANS CK'D. <b>NAR</b>
<b>DECK REPAIR &amp; PAINTING PLAN</b>			SHEET 1 OF 1





PLAN

11 SPAN - STEEL GIRDERS AND TRUSS

■ = DECK REPAIR (PARTIAL DEPTH)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.  
DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.  
APPROXIMATE DECK REPAIR LOCATIONS SHOWN. ACTUAL LOCATIONS TO BE DETERMINED BY FIELD ENGINEER.


TOTAL ESTIMATED QUANTITIES

506.0105	STRUCTURAL STEEL CARBON	2,020	LB
SPV.0105	STRUCTURE SPOT CLEANING AND PAINTING STRUCTURE B-32-115	1	LS
SPV.0165	FAST SET DECK PATCHING	145	SF

LIST OF DRAWINGS

1. DECK REPAIR
2. SPOT CLEANING AND PAINTING
3. GUSSET PLATE REPAIR 1
4. GUSSET PLATE REPAIR 2
5. MISCELLANEOUS STEEL REPAIR

STRUCTURE DESIGN CONTACTS:  
ANDREW SMITH (608) 266-0989  
DAVID KIEKBUSCH (608) 266-5084

NO.	DATE	REVISION	BY
 Plans Prepared By <b>WISDOT</b> <b>BUREAU OF STRUCTURES</b>			
ACCEPTED	Signature: <i>William C. Dreher</i> CHIEF STRUCTURES DESIGN ENGINEER		DATE: 4/1/13
<b>STRUCTURE B-32-115</b>			
STH 16 EB OVER LA CROSSE RIVER			
COUNTY	LA CROSSE	TOWN/CITY/VILLAGE	LA CROSSE
DESIGN SPEC.	REHABILITATION	N/A	
DESIGNED BY	ADS	DESIGN CK'D.	NAR
DRAWN BY	ADS	PLANS CK'D.	NAR
<b>DECK REPAIR</b>			SHEET 1 OF 5



## SHOWING SPOT CLEANING AND PAINTING LIMITS

SPANS 1-3, 5, 6, AND 11

SPAN 7, 8, 9, AND 10

## NOTES

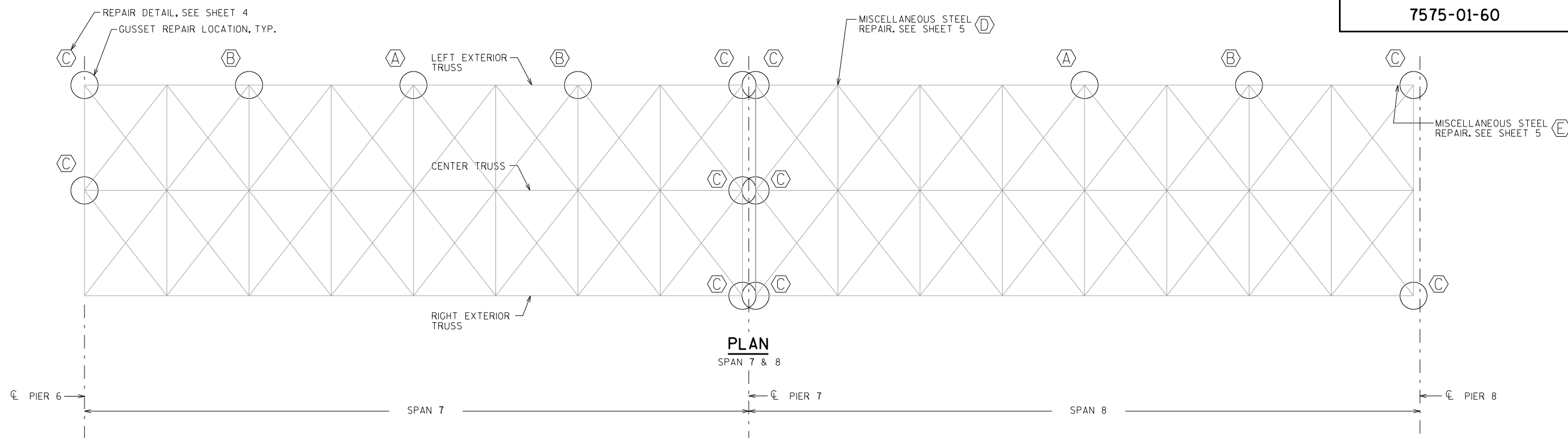
SPOT CLEAN AND PAINT EXISTING EXPOSED SUPERSTRUCTURE STEEL EXHIBITING ACTIVE CORROSION WITHIN THE LIMITS DESCRIBED BELOW AND AS SHOWN ON THE PLANS. AREAS REPRESENTING ACTIVE CORROSION ARE DEFINED IN THE SPECIAL PROVISION FOR "STRUCTURE SPOT CLEANING AND PAINTING STRUCTURE B-32-115."

- (A) ALL SIDES OF BOTTOM FLANGE OF THE EXTERIOR GIRDERS IN SPANS 1,2,3,5,6 AND 11
- (B) THE FULL HEIGHT, FULL WIDTH OF SUPERSTRUCTURE EXTENDING 5' FROM THE BEARINGS
- (C) THE FULL LENGTH OF THE BOTTOM CHORD AND ALL ATTACHMENTS UP TO 5' VERTICALLY AND 5' HORIZONTALLY ON THE EXTERIOR TRUSSES

THE COLOR OF PAINT SHALL BE BROWN, (FEDERAL STANDARD COLOR NO. 20252) OR SIMILAR COLOR APPROVED BY THE ENGINEER.

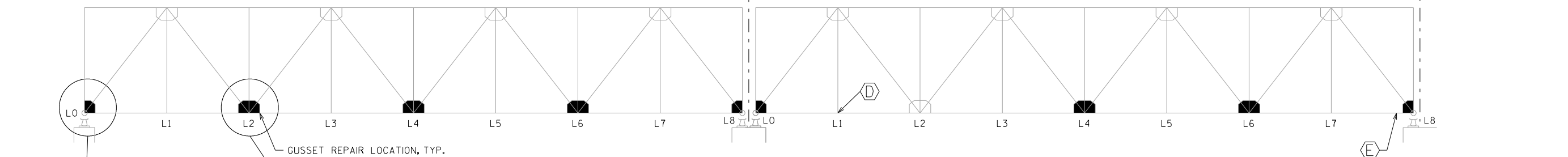
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-32-115			
DRAWN BY		ADS	PLANS CK'D. <b>NAR</b>
SPOT CLEANING AND PAINTING		SHEET 2	





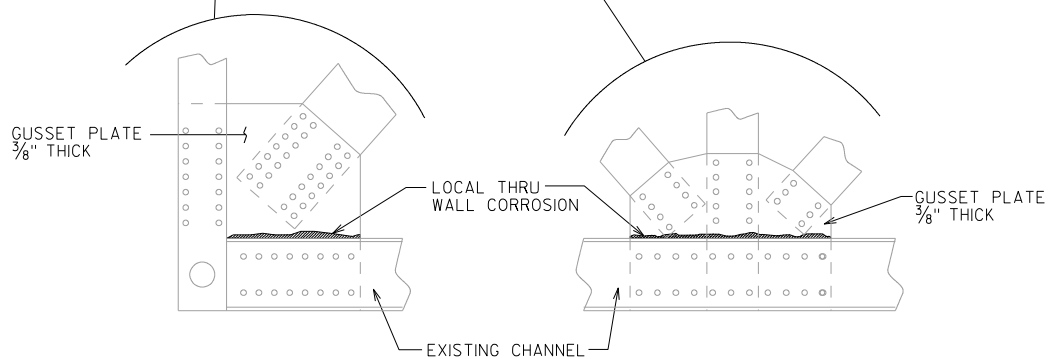
PLAN

SPAN 7 &amp; 8



ELEVATION

SPAN 7 &amp; 8

**TYPICAL CORROSION DAMAGE**

TYPICAL BOTH SIDES OF TRUSS

**GUSSET REPAIR NOTES**

GUSSET REPAIR INVOLVES REMOVAL OF SELECT EXISTING RIVETS, PREPARATION OF THE FAYING SURFACE, FIELD DRILLING AND BOLTING NEW ANGLES JOINING THE LOWER CHORD MEMBERS AND VERTICAL GUSSET PLATES. ALL REPAIR WORK TO BE INCIDENTAL TO BID ITEM "STRUCTURAL CARBON STEEL." PERFORM WORK IN ACCORDANCE TO SECTION 506 OF THE STANDARD SPECIFICATIONS, AND THE PLANS.

GUSSET REPAIR DETAILS ARE CONCEPTUAL AND MAY NOT ACCURATELY REPRESENT THE ACTUAL AS-BUILT FIELD CONDITIONS.

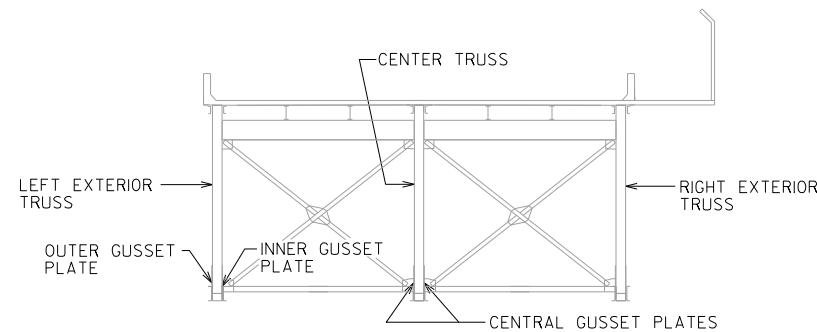
INSTALL RETROFIT COMPLETELY AT ONE LOCATION, DENOTED IN PLAN VIEW BY "GUSSET REPAIR LOCATION", BEFORE BEGINNING WORK ON THE NEXT REPAIR LOCATION WITHIN A GIVEN SPAN.

PREPARE THE EXISTING FAYING SURFACE BY REMOVING AREAS OF ACTIVE CORROSION AS SPECIFIED IN SPECIAL "STRUCTURE SPOT CLEANING AND PAINTING STRUCTURE B-32-115". PAINT CLEANED AREAS, THEN PREPARE TO SSPC-SP11 A 3"Ø AREA ABOUT THE NEW AND EXISTING BOLT HOLES USED FOR ATTACHING THE RETROFIT ANGLE.

REMOVE EXISTING 3/4"Ø RIVETS AND REPLACE WITH 3/4"Ø A325 BOLTS FOR ATTACHING THE RETROFIT ANGLE IF A MINIMUM EDGE DISTANCE OF 1" CAN BE MAINTAINED. OTHERWISE, NOTCH ANGLE TO AVOID CONFLICTING RIVET. BEVELED WASHERS MAY BE REQUIRED FOR ATTACHMENT TO EXISTING CHANNELS.

DRILL HOLES 1/16" LARGER THAN BOLT DIAMETER.

RETROFIT ANGLES TO BE PAINTED IN ACCORDANCE WITH SPECIAL "STRUCTURE SPOT CLEANING AND PAINTING STRUCTURE B-32-115". FAYING SURFACES OF ANGLES TO RECEIVE A COAT OF PRIMER PRIOR TO INSTALLATION.

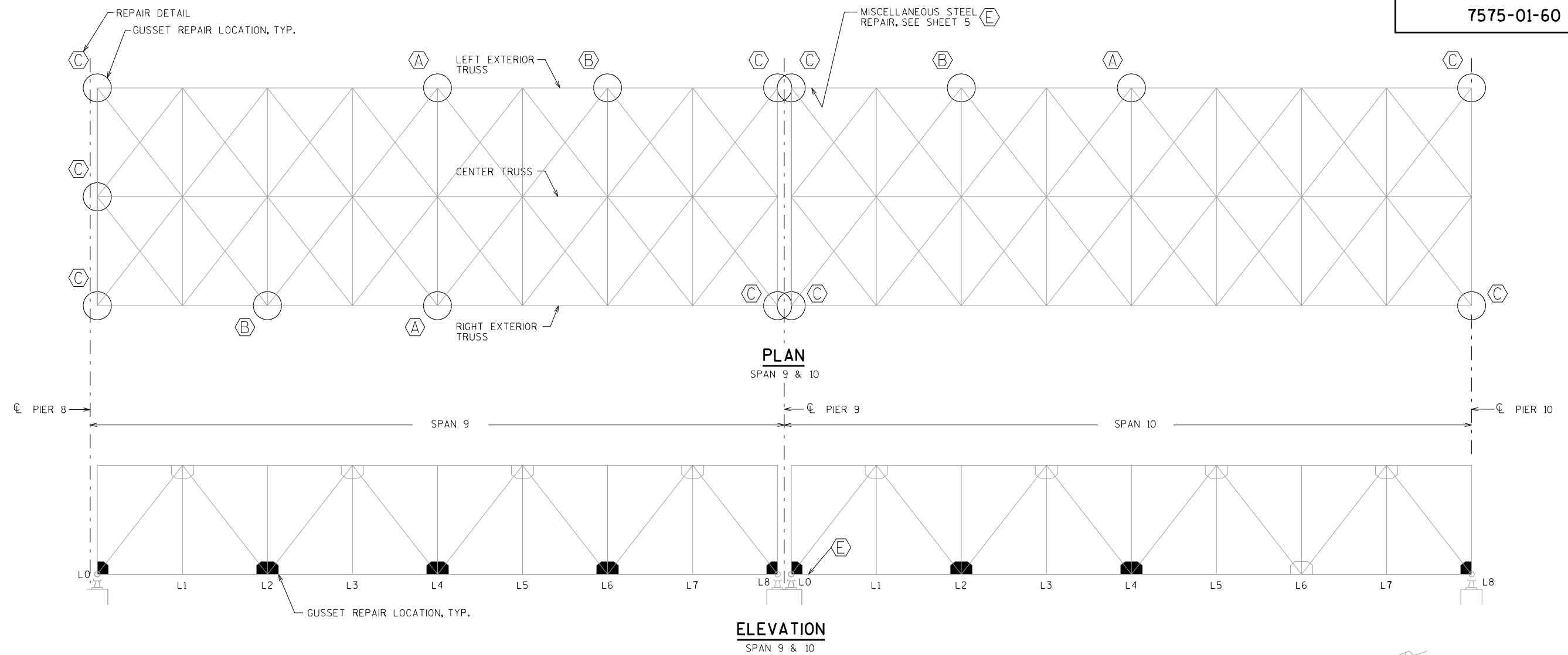


CROSS SECTION

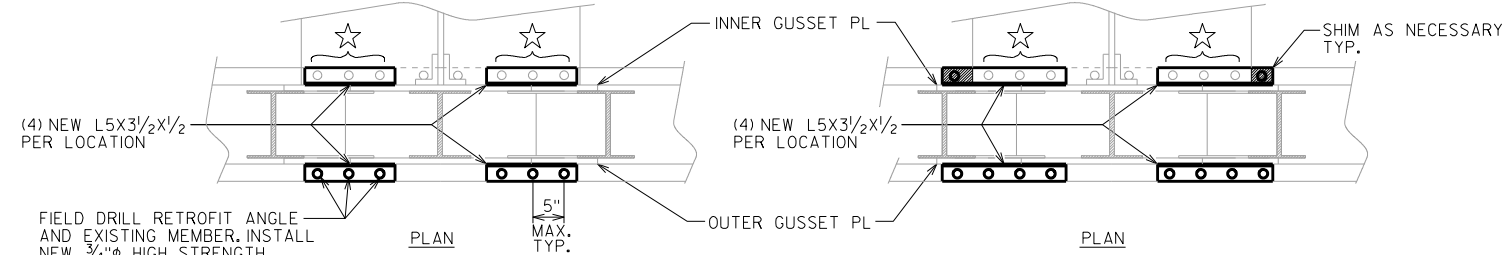
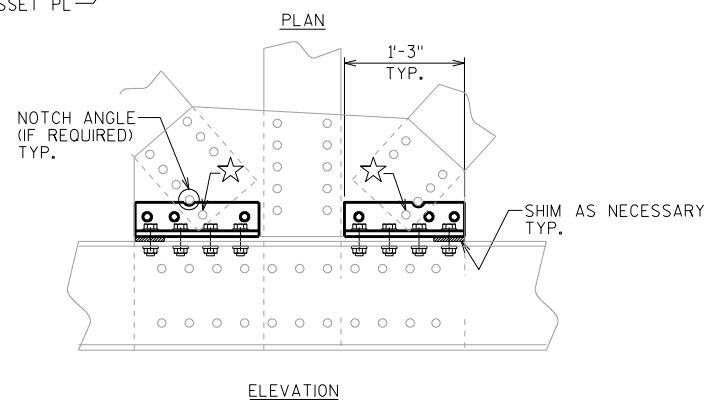
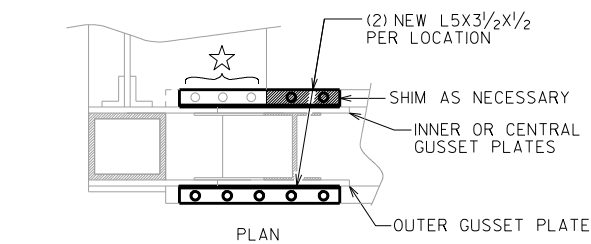
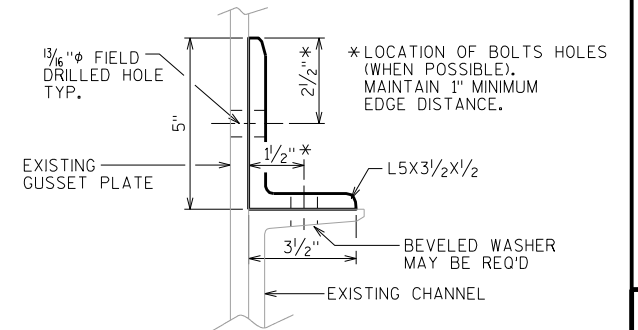
LOOKING UP STATION (NORTH)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-32-115			
DRAWN BY		ADS	PLANS CK'D. NAR
GUSSET PLATE REPAIR 1			SHEET 3



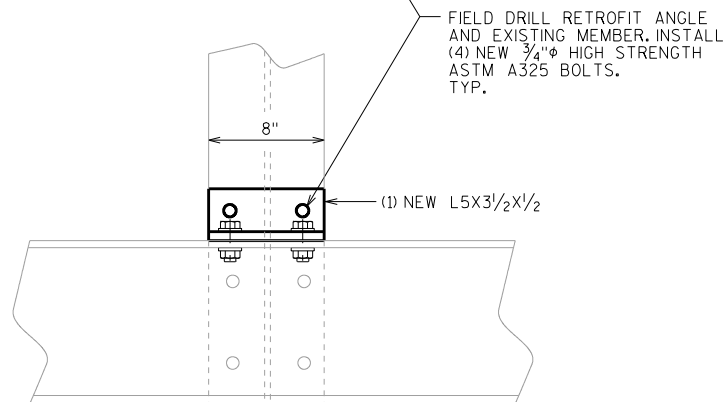
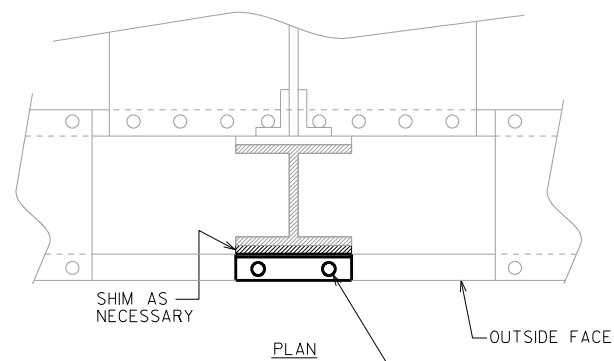


☆ EXISTING RIVETS TO BE REMOVED. MATCH DRILL NEW ANGLE TO EXISTING HOLES AND INSTALL  $\frac{3}{4}$ "  $\phi$  HIGH STRENGTH ASTM A325 BOLTS.

**A REPAIR****B REPAIR****C REPAIR**

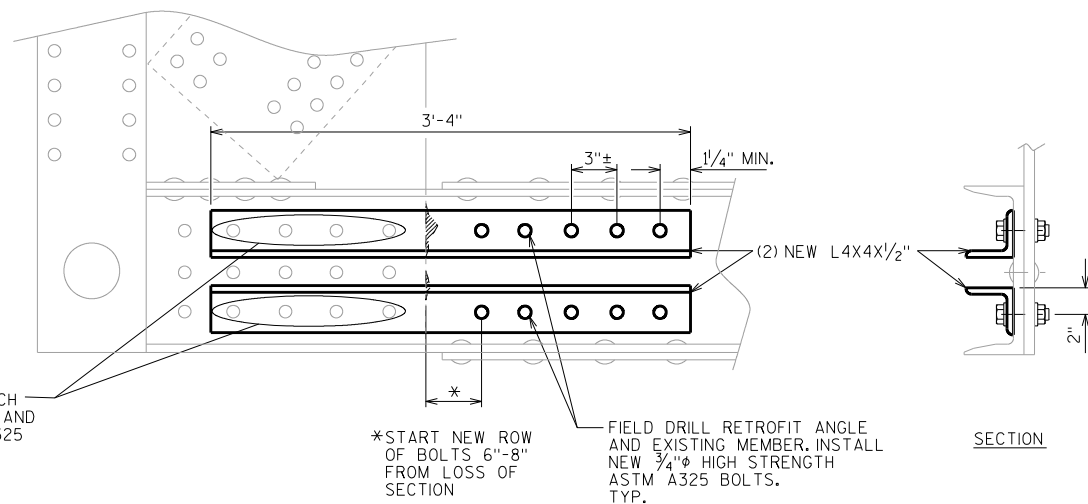
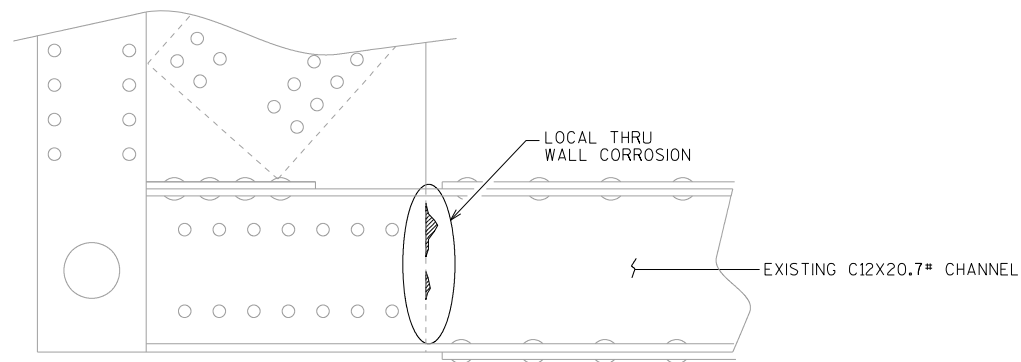
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-32-115			
DRAWN BY		ADS	PLANS CK'D. NAR
GUSSET PLATE REPAIR 2		SHEET	4





**REPAIR**

SEE SHEET 4 FOR MORE DETAILS



**REPAIR**

INSTALL A SINGLE ANGLE COMPLETELY BEFORE INSTALLING THE SECOND

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-32-115			
DRAWN BY ADS		PLANS CK'D. NAR	
MISCELLANEOUS STEEL REPAIR		SHEET 5	



## DESIGN DATA

## LIVE LOAD:

INVENTORY RATING: HS-21  
OPERATIONAL RATING: HS-40  
MAXIMUM STANDARD PERMIT VEHICLE LOAD: 250 KIPS

## GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL  
STRUCTURE PLANS.

## TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509.5100.S	POLYMER OVERLAY	SY	1026


## CURVE DATA

R E.B. S.T.H. 16

P.I. = 331+54.10  
 $\Delta$  = 2°-51'-53"  
D = 0°-30'-00"  
T = 286.54'  
L = 572.94'  
R = 11459.00'  
E = 3.58'  
P.C. = 328+67.63  
P.T. = 334+40.57

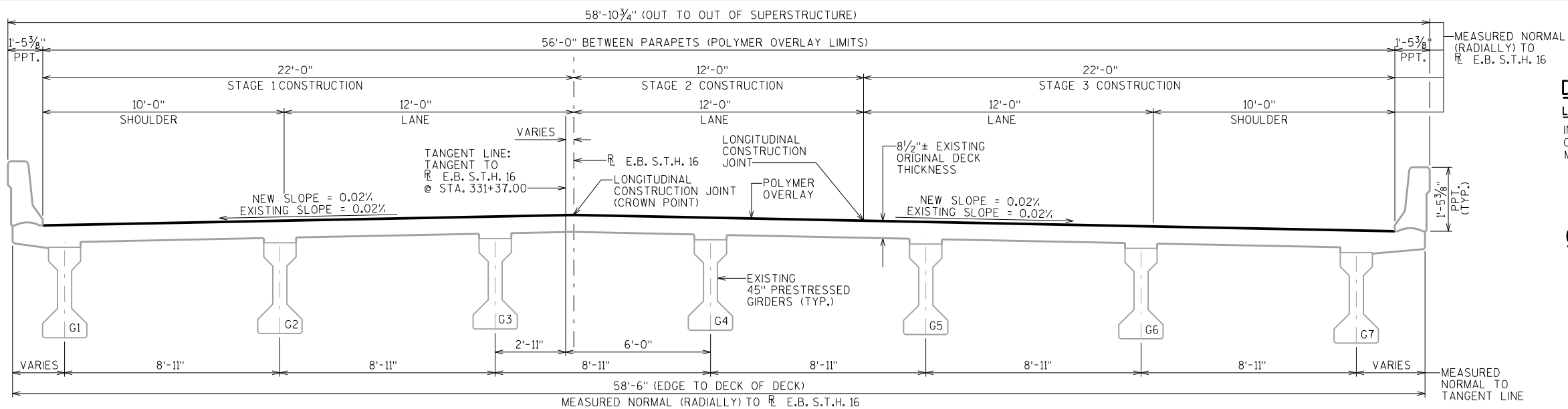
## STRUCTURES DESIGN CONTACTS:

ANDREW SMITH (608) 266-0989  
DAVE KIEKBUSCH (608) 266-5084

NO.	DATE	REVISION	BY
<div><div> Plans Prepared By <b>WISDOT</b> <b>BUREAU OF STRUCTURES</b></div><div>ACCEPTED <i>William C. Dieker</i> <b>3/21/13</b> CHIEF STRUCTURES DESIGN ENGINEER DATE</div></div>			
<b>STRUCTURE B-32-213</b>			
EASTBOUND S.T.H. 16 LANES OVER 12TH AVENUE			
COUNTY	LA CROSSE	CITY	LA CROSSE
DESIGN SPEC.	REHABILITATION	N/A	
DESIGNED BY	ADS	DESIGN CK'D.	---
DRAWN BY	JPH	PLANS CK'D.	ADS
<b>THIN BONDED POLYMER OVERLAY</b>			SHEET 1 OF 1

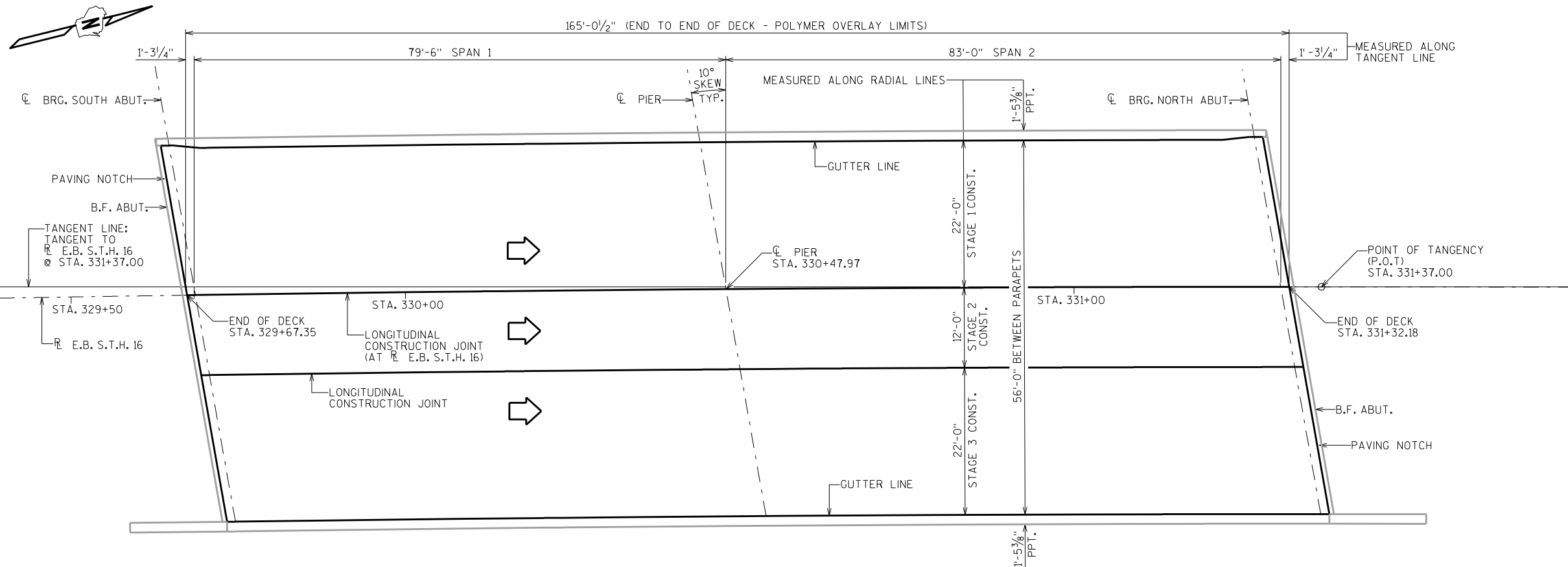
## LIST OF DRAWINGS

1. THIN BONDED POLYMER OVERLAY



CROSS SECTION THRU ROADWAY LOOKING NORTH

← DIRECTION OF TRAFFIC



PLAN

## BENCH MARK

NUMBER	DESCRIPTION	ELEVATION
BM CAP 1	DISK LOCATED ON TOP OF SE WING PARAPET	673.50



## DESIGN DATA

## LIVE LOAD:

INVENTORY RATING: HS-21  
OPERATIONAL RATING: HS-40  
MAXIMUM STANDARD PERMIT VEHICLE LOAD: 250 KIPS

## GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

## TOTAL ESTIMATED QUANTITIES

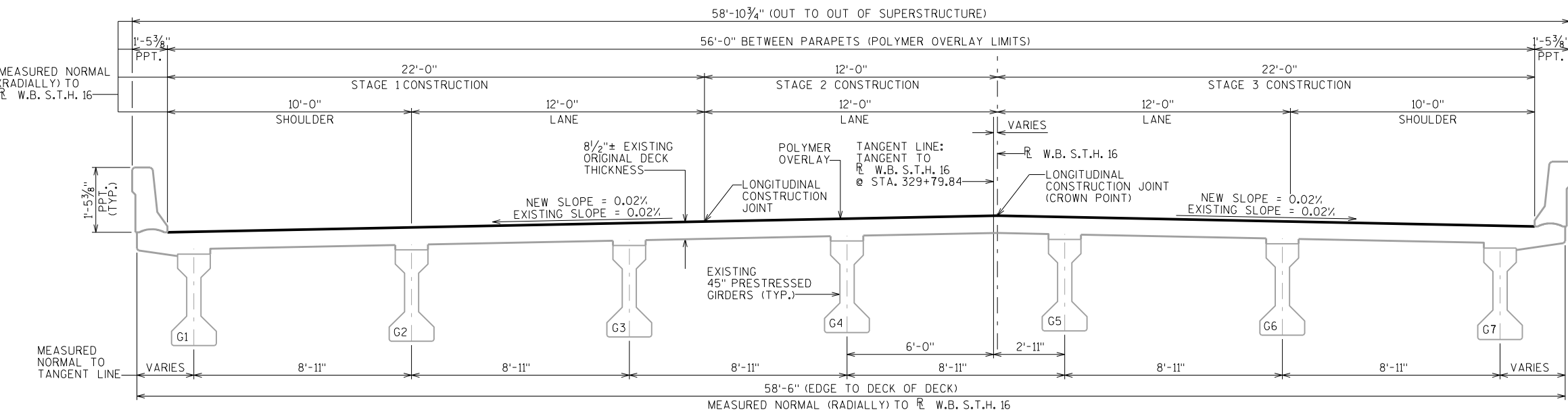
BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509.5100.S	POLYMER OVERLAY	SY	1026

## CURVE DATA

## R W.B. S.T.H. 16

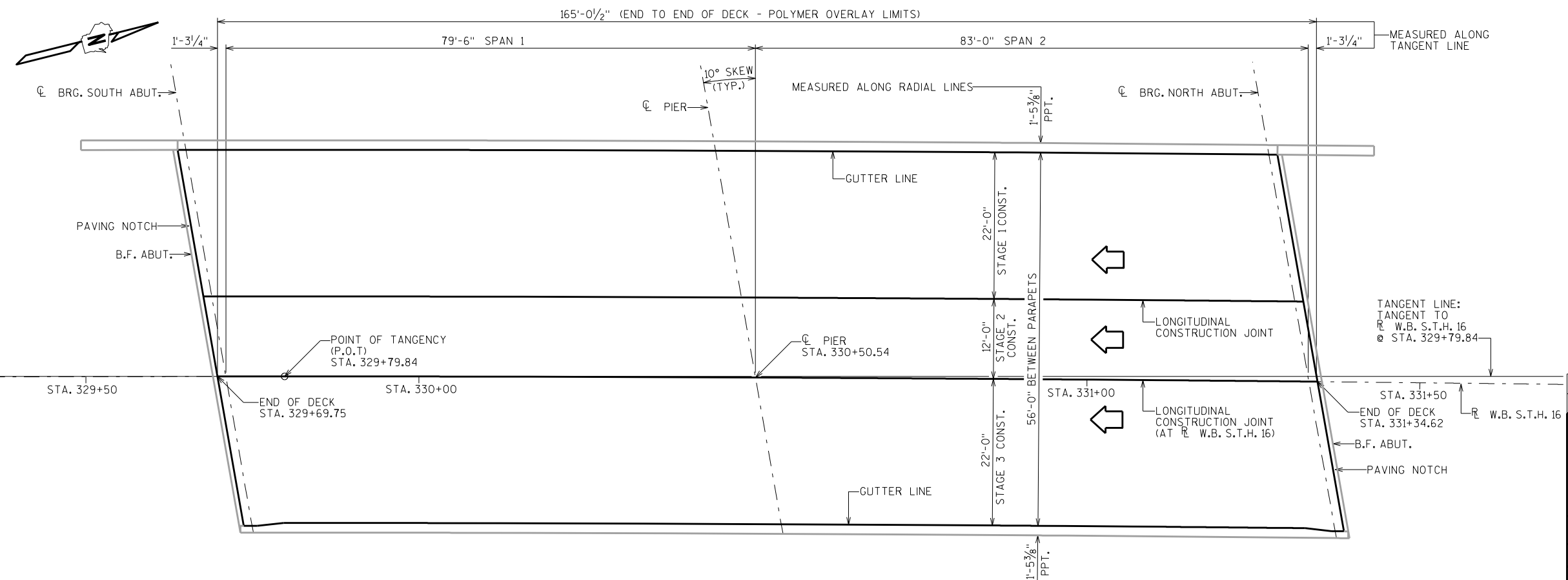
P.I. = 329+77.02  
 $\Delta$  = 2°-36'-29"  
D = 0°-22'-22"  
T = 349.91'  
L = 699.70'  
R = 15371.14'  
E = 3.98'  
P.C. = 326+15.96  
P.T. = 333+15.66

STRUCTURES DESIGN CONTACTS:  
ANDREW SMITH (608) 266-0989  
DAVE KIEKBUSCH (608) 266-5084



CROSS SECTION THRU ROADWAY LOOKING NORTH

DIRECTION OF TRAFFIC



PLAN

## BENCH MARK

NUMBER	DESCRIPTION	ELEVATION
BM CAP 1	DISK LOCATED ON TOP OF B-32-213 SE WING PARAPET	673.50

## LIST OF DRAWINGS

1. THIN BONDED POLYMER OVERLAY

NO.	DATE	REVISION	BY
ACCEPTED <i>William C. Dreher</i> 3/21/13 CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-32-214			
WESTBOUND S.T.H. 16 LANES OVER 12TH AVENUE			
COUNTY	LA CROSSE	CITY	LA CROSSE
DESIGN SPEC.	REHABILITATION	N/A	
DESIGNED BY	ADS	DESIGN CK'D.	---
DRAWN BY	JPH	PLANS CK'D.	ADS
THIN BONDED POLYMER OVERLAY			SHEET 1 OF 1



## Notes





## *Wisconsin Department of Transportation*

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