

MAD

JUNE 2017

ORDER OF SHEETS

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

TOTAL SHEETS = 86



DESIGN DESIGNATION

A.A.D.T.	2015	=	6,400
A.A.D.T.		=	
D.H.V.		=	
D.D.		=	
T.		=	
DESIGN SPEED		=	60 MPH
ESALS		=	1,700.00

CONVENTIONAL SYMBOLS

PLAN

CORPORATE LIMITS

PROPERTY LINE

LOT LINE

LIMITED HIGHWAY EASEMENT

EXISTING RIGHT OF WAY

PROPOSED OR NEW R/W LINE

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT
(Box or Pipe)

COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA

PROFILE

GRADE LINE

ORIGINAL GROUND

MARSH OR ROCK PROFILE
(To be noted as such)

SPECIAL DITCH

GRADE ELEVATION

CULVERT (Profile View)

UTILITIES

ELECTRIC

FIBER OPTIC

GAS

SANITARY SEWER

STORM SEWER

TELEPHONE

WATER

UTILITY PEDESTAL

POWER POLE

TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

CAMBRIDGE - JEFFERSON

USH 12 TO STH 26 INTERCHANGE

USH 18

JEFFERSON COUNTY

STATE PROJECT NUMBER

3080-03-60

STATE PROJECT

3080-03-60

FEDERAL PROJECT

PROJECT

CONTRACT

END PROJECT

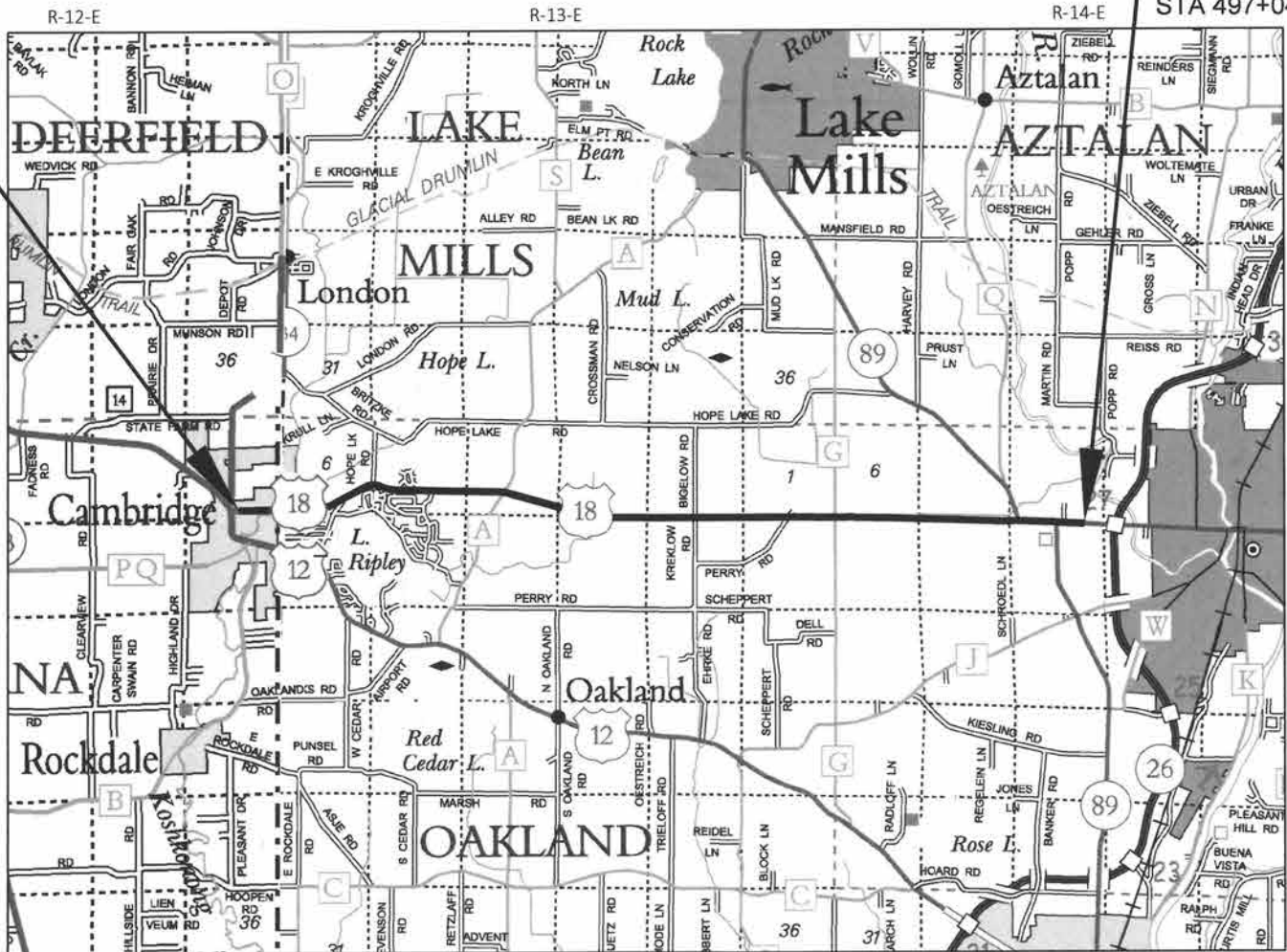
STA 497+04

BEGIN PROJECT

STA 5+90

X=798,055.40

Y=560,074.81



LAYOUT

SCALE 0 2.0 MI

TOTAL NET LENGTH OF CENTERLINE = 9.302 MI

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

ORIGINAL PLANS PREPARED BY:



DATE: 02-01-17

Zachary M. Freeman
(Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY:

Surveyor	WISDOT
Designer	OTIE
Project Manager	MAHESH SHRESTHA
Regional Examiner	
Regional Supervisor	WILLIAM STROBEL

APPROVED FOR THE DEPARTMENT

DATE: 2/1/2017

William Strobel
(Signature)

E

GENERAL NOTES:

HMA PAVEMENT OVERLAY WILL BE PLACED IN ONE 2" LAYER.

IN AREAS OF REMOVING DISTRESSED PAVEMENT MILLING, PAVE THE LOWER 2.5"-3" LAYER IN ONE LIFT, THEN PLACE THE FINAL 2" SURFACE LAYER.

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING OR PARKING LANE.

THE RATE OF APPLICATION FOR TACK COAT IS 0.050 TO 0.070 GALLONS PER SQUARE YARD OR AS DIRECTED BY THE ENGINEER.

PAVING LIMITS AT INTERSECTIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES AND FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

EXISTING SHOULDER AGGREGATE SHALL BE INCORPORATED INTO THE NEW SHOULDERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN THE FIELD.

THE LOCATION OF STOP LINES SHALL BE DETERMINED IN THE FIELD 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, ALL SIGNS RELATING TO THIS OPERATION SHALL BE COVERED OR REMOVED AND FACILITY RESTORED TO NORMAL OPERATIONS.

EROSION CONTROL ITEMS IN THE MISC. QUAN. ARE SUGGESTED. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. MAINTAIN EROSION CONTROL ITEMS UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY. PROTECT WETLANDS AND OTHER WATERWAYS THAT ARE PRESENT WITHIN THE PROJECT LIMITS.

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

IF THERE ARE UTILITY CONFLICTS WITH SIGNS OR OTHER WORK UNDER PROJECT, THE CONTRACTOR WILL WORK AROUND THE UTILITY FACILITIES.

DO NOT STORE EQUIPMENT OR MATERIAL IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS OR WATERWAYS.

UTILITY CONTACTS:

CAROL ANASON
AT&T WISCONSIN - COMMUNICATION LINE
316 W WASHINGTON AVE
MADISON, WI 53703
(608) 252-2385
CA2624@ATT.COM

MIKE OLSEN
ATC MANAGEMENT, INC. - ELECTRICITY-TRANSMISSION
801 O'KEEFE RD
P.O. BOX 6113
DE PERE, WI 54115-6113
(920) 338-6582
MOLSEN@ATCLLC.COM

BRANDON STORM
CHARTER COMMUNICATIONS - COMMUNICATION LINE
2701 DANIELS ST
MADISON, WI 53718
(608) 274-3822
BRANDON.STORM@CHARTER.COM

DAVID SCHULTZ
ENBRIDGE ENERGY - GAS/PETROLEUM
466 MIDLAND RD
JANESVILLE, WI 53546
(608) 756-0071 EXT. 73634
DAVID.SCHULTZ@ENBRIDGE.COM

LATROY BRUMFIELD
WE ENERGIES - ELECTRICITY
333 WEST EVERETT ST, ROOM A299
MILWAUKEE, WI 53203
(414) 221-5617
LATROY.BRUMFIELD@WE-ENRGIES.COM

LATROY BRUMFIELD
WE ENERGIES - GAS/PETROLEUM
333 WEST EVERETT ST, ROOM A299
MILWAUKEE, WI 53203
(414) 221-5617
LATROY.BRUMFIELD@WE-ENRGIES.COM

RUSSELL RYAN
FRONTIER COMMUNICATIONS OF WI LLC - COMMUNICATION LINE
107 PLEASANTVIEW DR
PLYMOUTH, WI 53073
(920) 893-7212
RUSSELL.W.RYAN@FTR.COM

NATHAN BECKER
MCLEOD USA TELECOMMUNICATION SERVICES INC - COMMUNICATION LINE
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005
(262) 792-7938
NATHAN.BECKER@WINDSTEAM.COM

JASON HOGAN
ALLIANT ENERGY - ELECTRICITY/GAS/PETROLEUM
4902 N BILTMORE LANE, SUITE 1000
MADISON, WI 53718
(608) 458-4871
JASONHOGAN@ALLIANTENERGY.COM

DONN TRIELOFF
VILLAGE OF CAMBRIDGE - WATER/SANITARY
200 SPRING ST
PO BOX 99
CAMBRIDGE, WI 53523-0099
(608) 423-3712
DTRIELOFF@CI.CAMBRIDGE.WI.US

WISDOT CONTACT:

MAHESH SHRESTHA
WISCONSIN DOT - PROJECT MANAGER
2101 WRIGHT ST
MADISON, WI 53704
(608) 245-2674
MAHESH.SHRESTHA@DOT.WI.GOV

CONSULTANT CONTACT:

ZACH FREEMAN
ONEIDA TOTAL INTEGRATED ENTERPRISES - OTIE, DESIGNER
5100 EASTPARK BLVD, SUITE 300
MADISON, WI 53718
(608) 243-6479
ZFREEMAN@OTIE.COM

DNR CONTACT:

LAURA BUB
3911 FISH HATCHERY RD
FITCHBURG, WI 53711
(608) 275-3485
LAURA.BUB@WISCONSIN.GOV

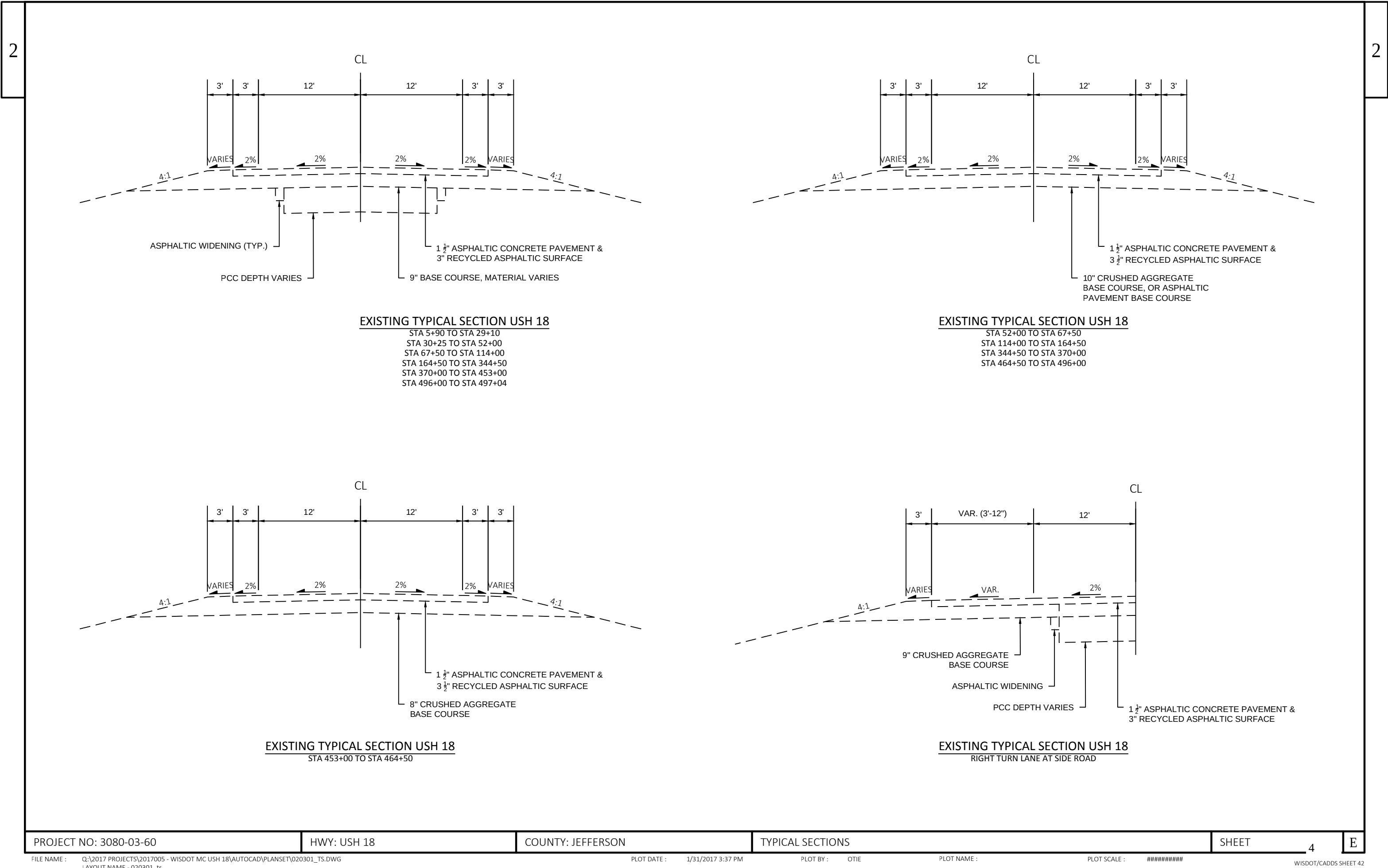
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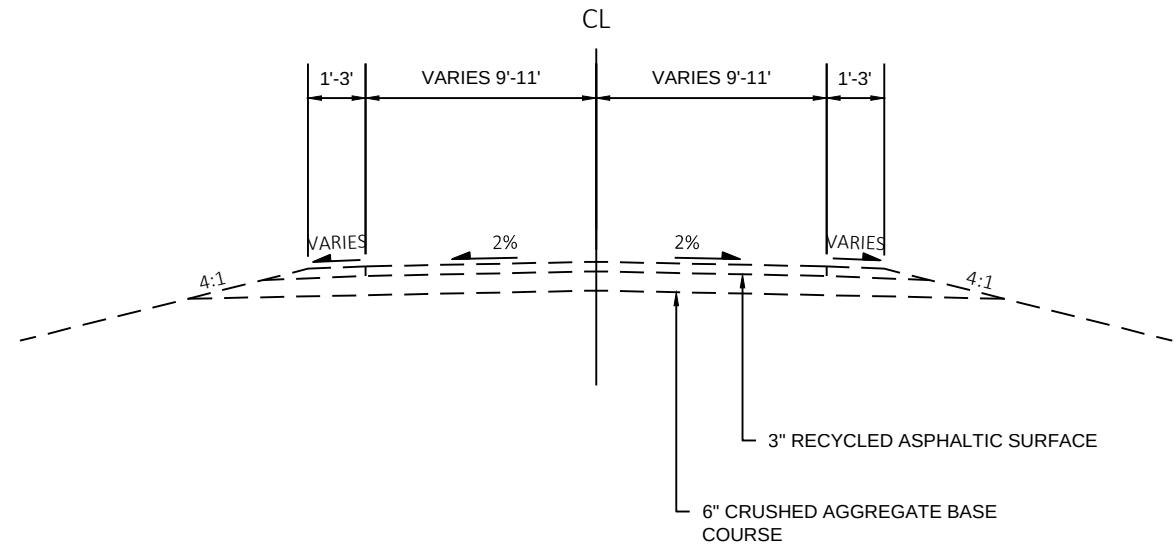
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ASPH	ASPHALTIC
BM	BENCH MARK
BLDG	BUILDING
C/L	CENTERLINE
CONC	CONCRETE
CTH	COUNTY TRUNK HIGHWAY
CY	CUBIC YARD
CWT	HUNDREDWEIGHT
C&G	CURB AND GUTTER
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
DD	DIRECTION DISTRIBUTION
Δ	DELTA
EL	ELEVATION
ESALS	EQUIVALENT SINGLE AXLE LOADS
FT	FOOT
GRT	GRATE
INL	INLET
IP	IRON PIPE OR PIN
LT	LEFT
L	LENGTH OF CURVE
LF	LINEAR FOOT
LS	LUMP SUM
MAX.	MAXIMUM
MH	MANHOLE
MIN.	MINIMUM
N	NORTH
NC	NORMAL CROWN
NOR.	NORMAL
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PT	POINT OF TANGENCY
R	RADIUS
R/L	REFERENCE LINE
R/W	RIGHT-OF-WAY
REQD	REQUIRED
RT	RIGHT
SDD	STANDARD DETAIL DRAWING
SF	SQUARE FEET
STA	STATION
STH	STATE TRUNK HIGHWAY
SY	SQUARE YARD
T	TANGENT
TLE	TEMPORARY LIMITED EASEMENT
T	TON
T	TRUCKS (PERCENT OF)
TYP	TYPICAL
VAR	VARIABLE
WV	WATER VALVE





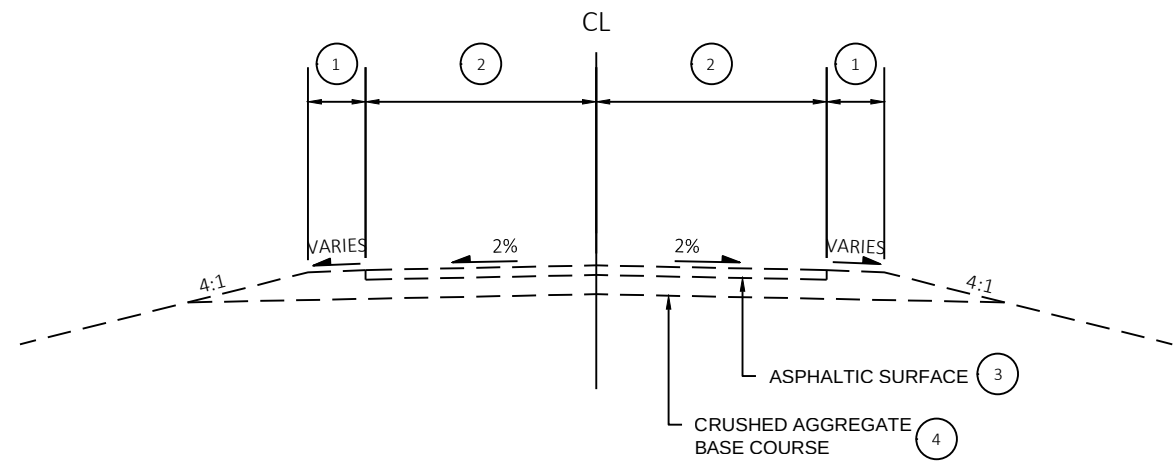
PROJECT NO: 3080-03-60	HWY: USH 18	COUNTY: JEFFERSON	PROJECT OVERVIEW	SHEET 3	E
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EXISTING TYPICAL SECTION SIDEROAD

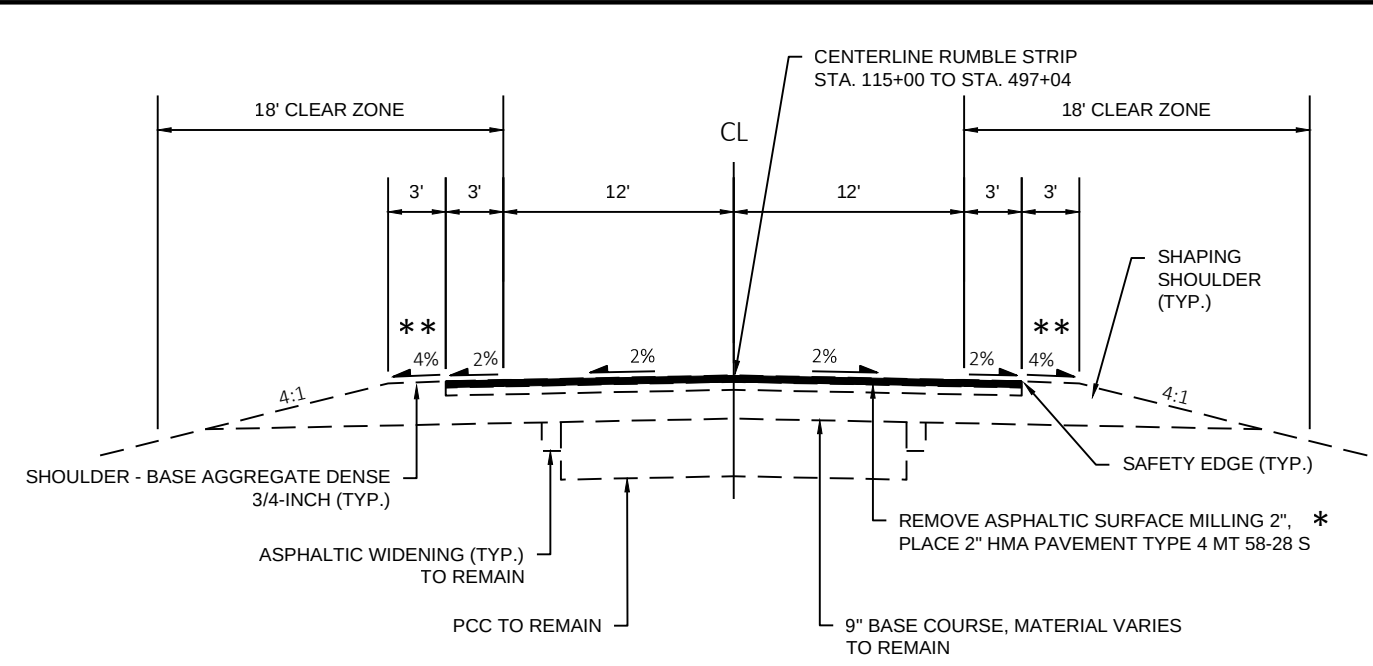
PERRY ROAD
BIGELOW ROAD
SIMONSON STREET
POTTER ROAD
HOPE LAKE ROAD
KREKLOW ROAD



EXISTING TYPICAL SECTION SIDEROAD

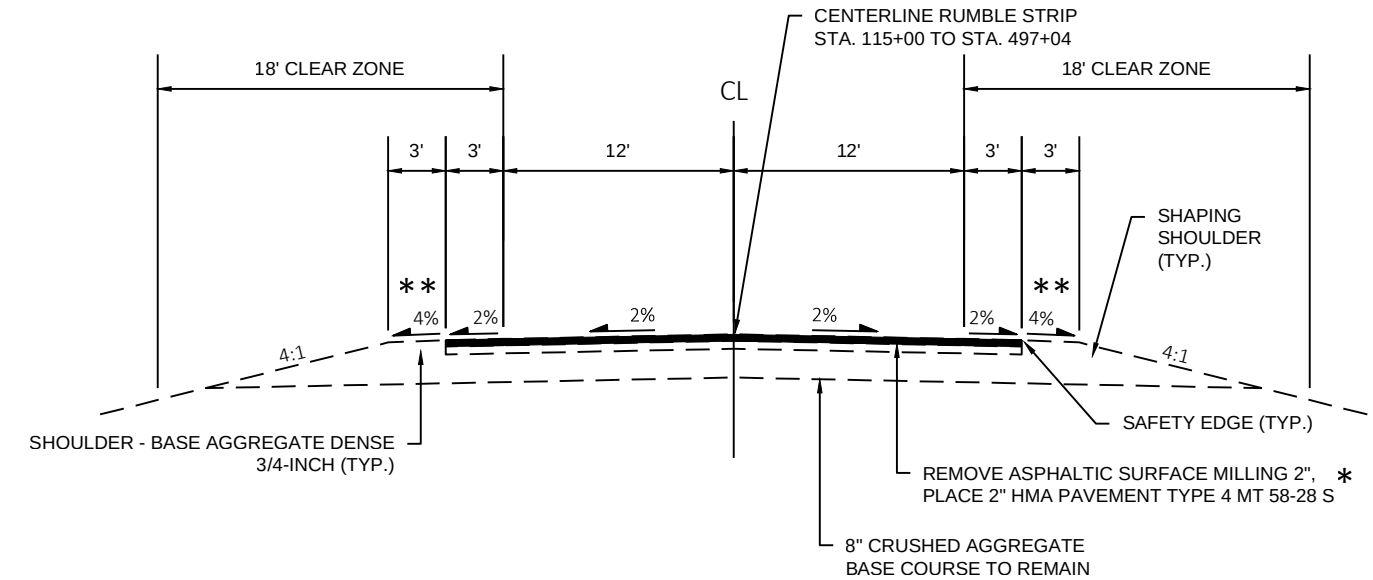
SIDEROAD	(1)	(2)	(3)	(4)
PARK ROAD	6'	11'	4"	8"
WOLFF ROAD	3'	10'	3"	6"
CTH A	6'	12'	4"	8"
CTH G	6'	11'	3.5"	9"
STH 89 SOUTH	6'	12'	5"	10"
GERHKE LANE	2'	9'	3"	6"

2



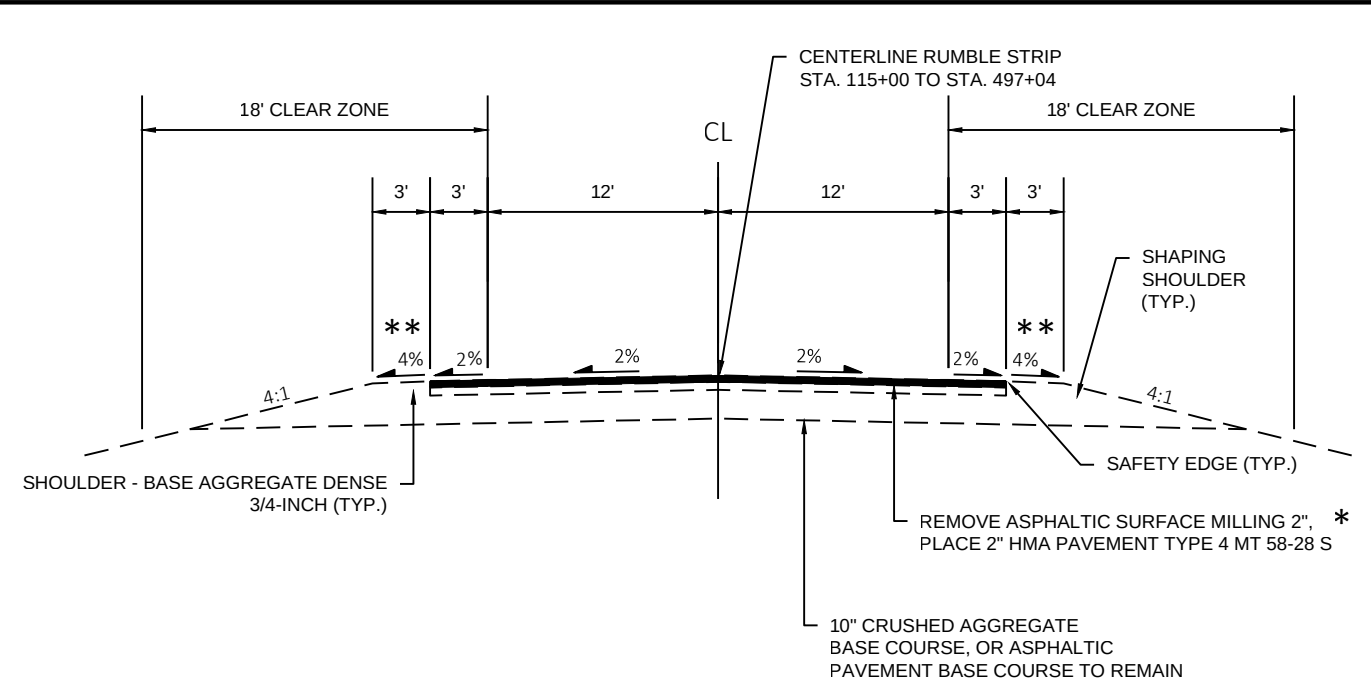
FINISHED TYPICAL SECTION USH 18

STA 5+90 TO STA 29+10
STA 30+25 TO STA 52+00
STA 67+50 TO STA 114+00
STA 164+50 TO STA 344+50
STA 370+00 TO STA 453+00
STA 496+00 TO STA 497+04



FINISHED TYPICAL SECTION USH 18

STA 453+00 TO STA 464+50

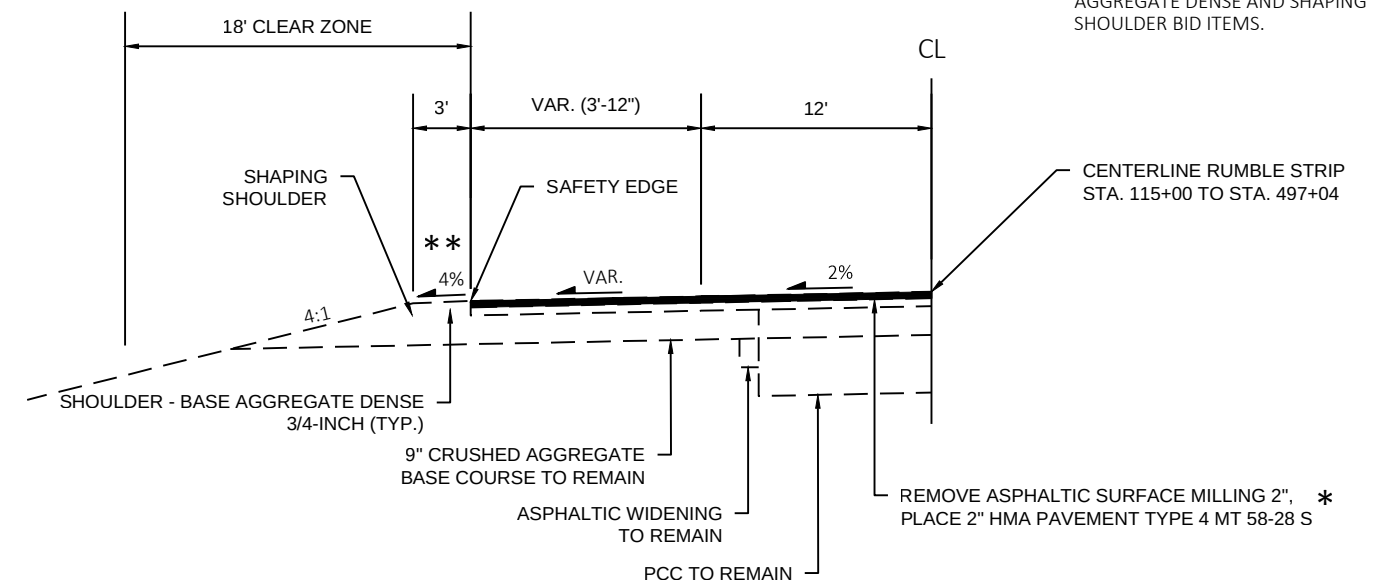


FINISHED TYPICAL SECTION USH 18

STA 52+00 TO STA 67+50
STA 114+00 TO STA 164+50
STA 344+50 TO STA 370+00
STA 464+50 TO STA 496+00

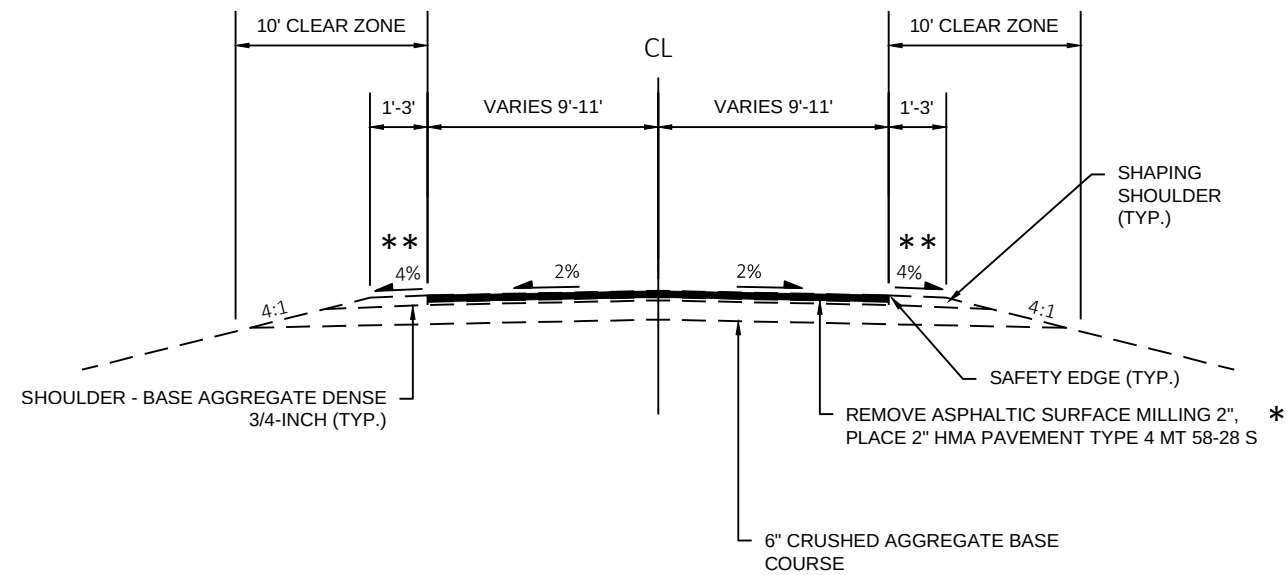
* EXISTING PAVEMENT NOT MILLED TO REMAIN

**** RESTORE SHOULDERS TO INDICATED SLOPE AND DIMENSION. SHOULDER RESTORATION WILL BE PAID UNDER BASE AGGREGATE DENSE AND SHAPING SHOULDER BID ITEMS.**



FINISHED TYPICAL SECTION USH 18

RIGHT TURN LANE AT SIDE ROAD

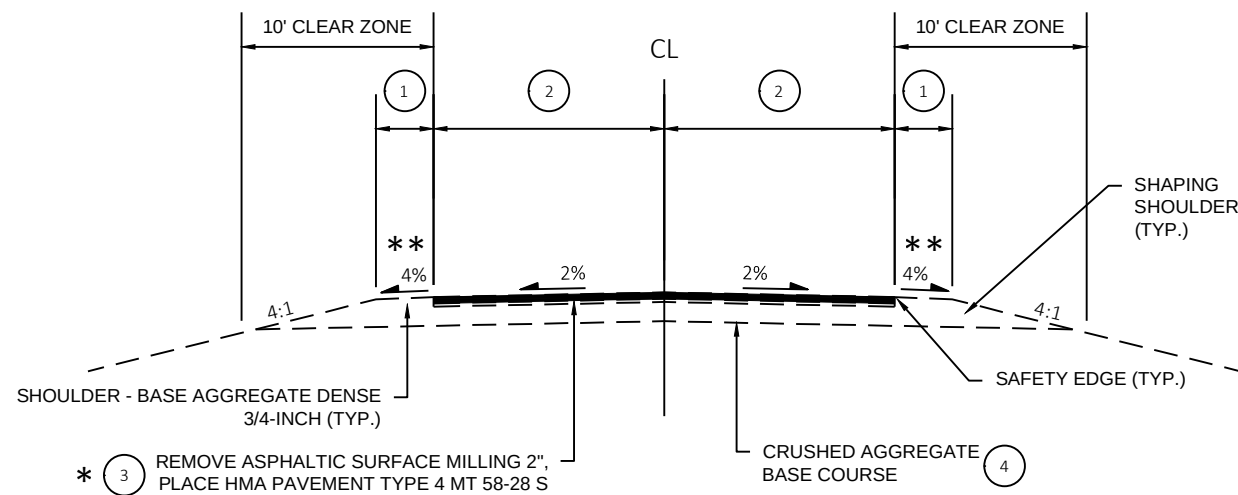


FINISHED TYPICAL SECTION SIDEROAD

PERRY ROAD
BIGELOW ROAD
SIMONSON STREET
POTTER ROAD
HOPE LAKE ROAD
KREKLOW ROAD

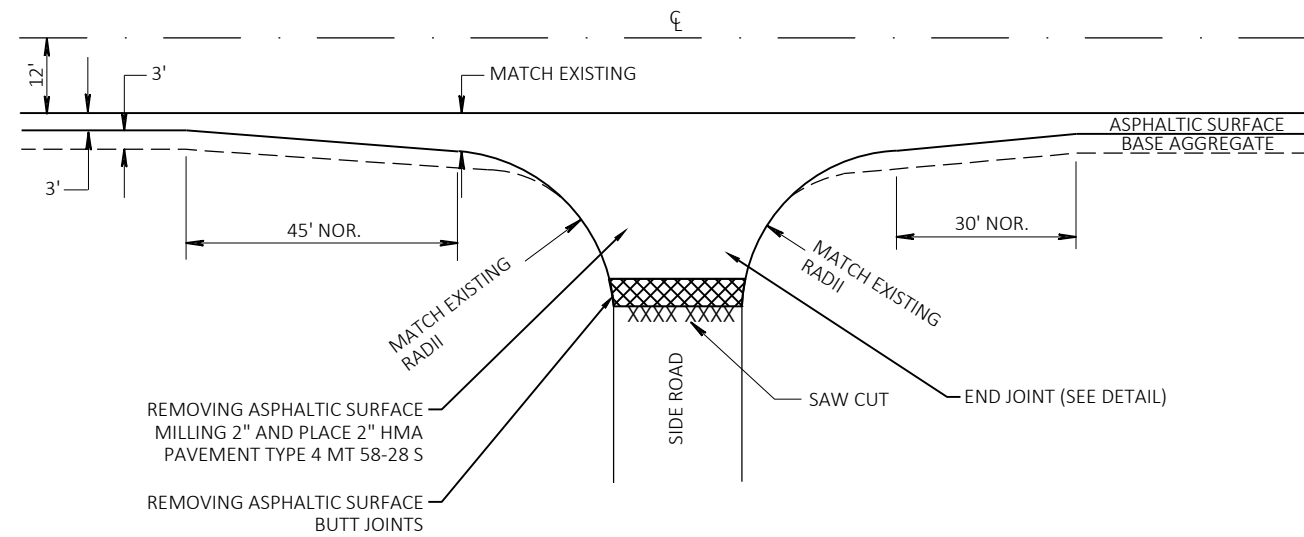
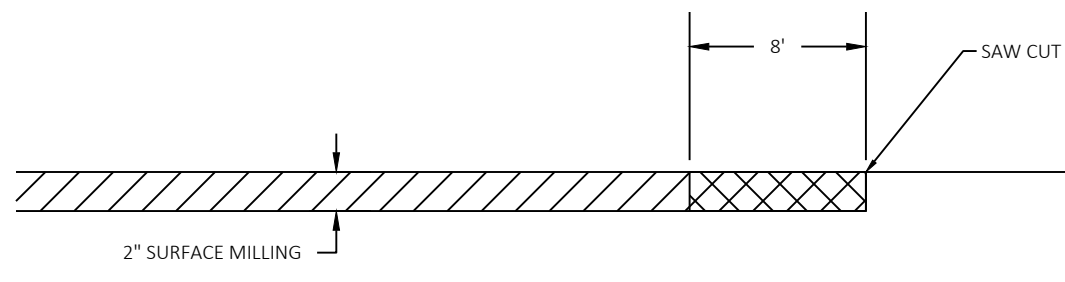
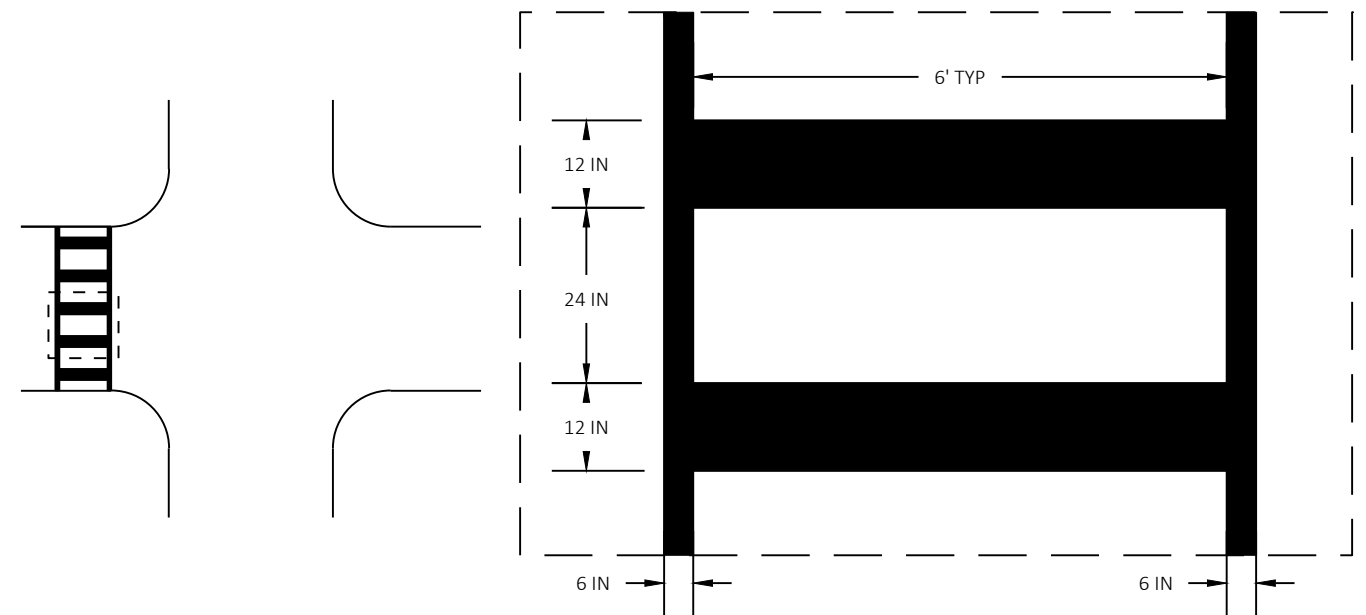
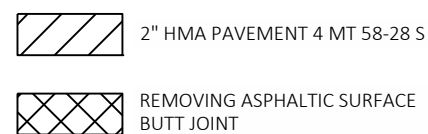
* EXISTING PAVEMENT NOT MILLED TO REMAIN

** RESTORE SHOULDERS TO INDICATED SLOPE AND DIMENSION. SHOULDER RESTORATION WILL BE PAID UNDER BASE AGGREGATE DENSE AND SHAPING SHOULDER BID ITEMS.

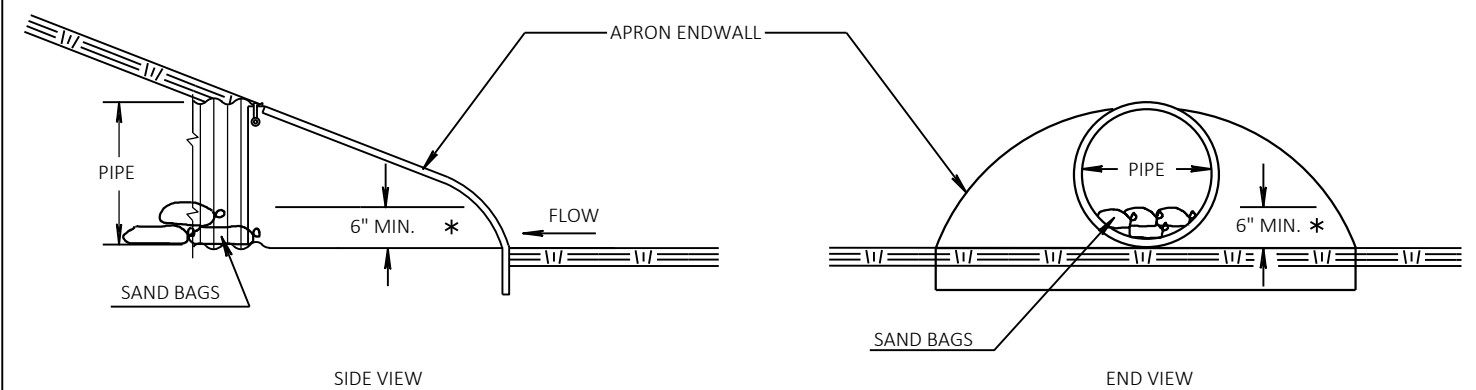


FINISHED TYPICAL SECTION SIDEROAD

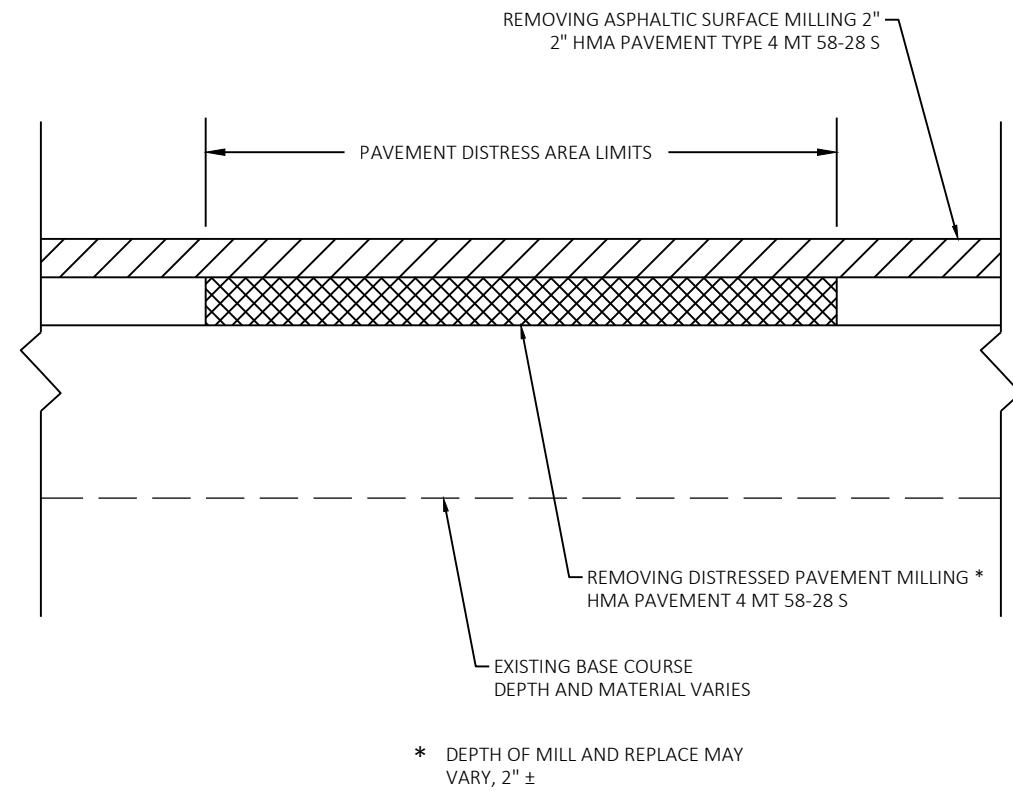
SIDEROAD	(1)	(2)	(3)	(4)
PARK ROAD	6'	11'	2"	8"
WOLFF ROAD	3'	10'	2"	6"
CTH A	6'	12'	2"	8"
CTH G	6'	11'	2"	9"
STH 89 SOUTH	6'	12'	2"	10"
GERHKE LANE	2'	9'	2"	6"

SIDE ROAD DETAILEND JOINT DETAIL

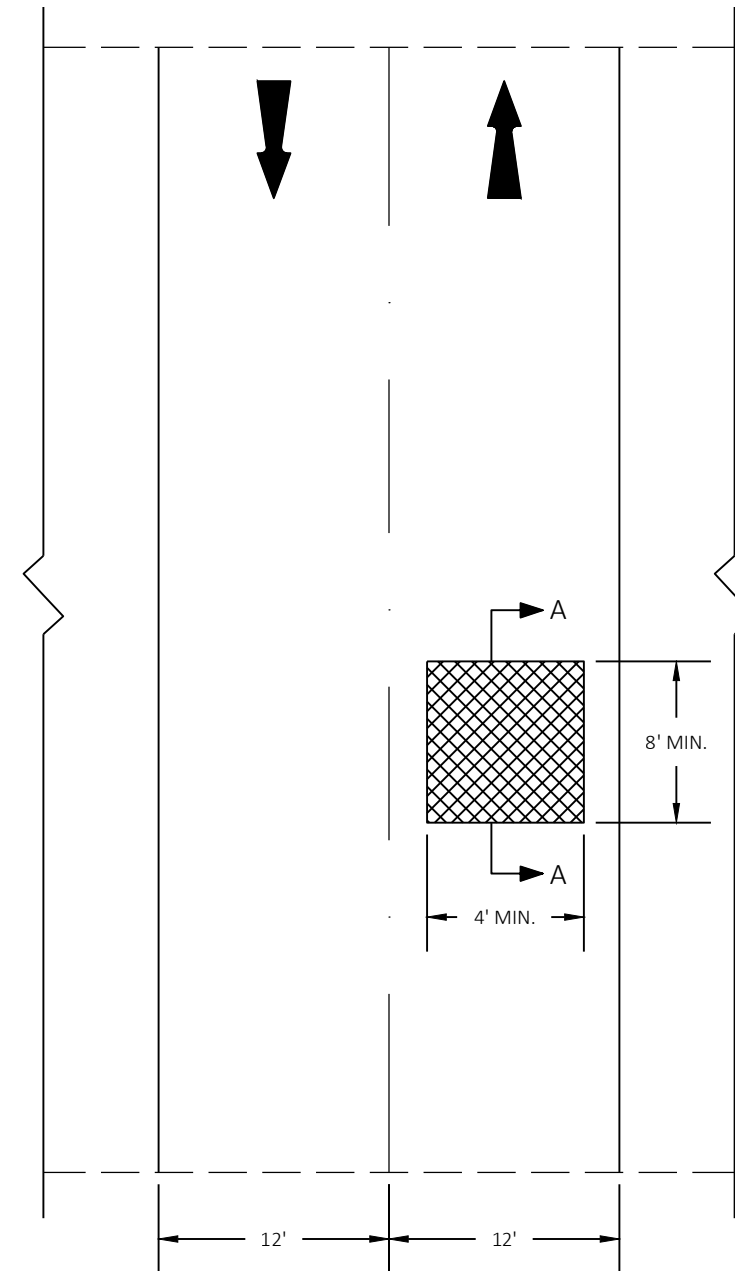
- GENERAL NOTES:
1. PAVEMENT MARKING SHALL BE WHITE REFLECTIVE EPOXY
 2. NUMBER OF PAVEMENT BARS DETERMINED BY ROADWAY WIDTH

CROSSWALK PAVEMENT MARKINGCULVERT PIPE CHECK

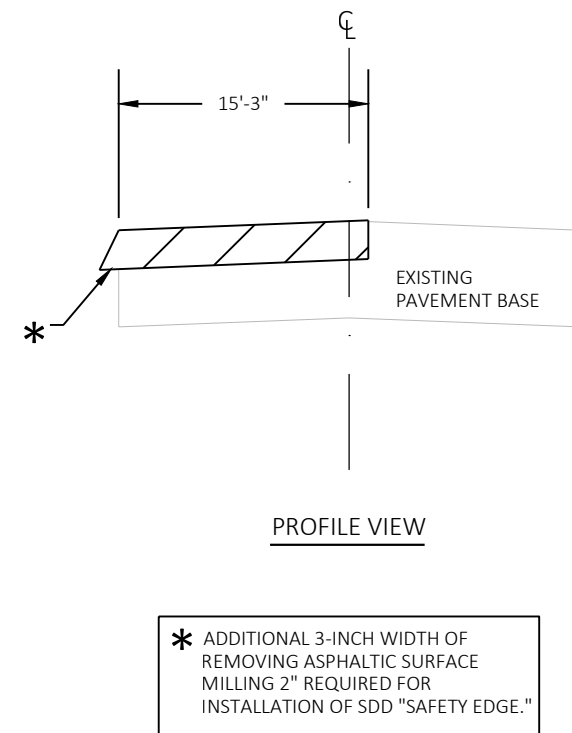
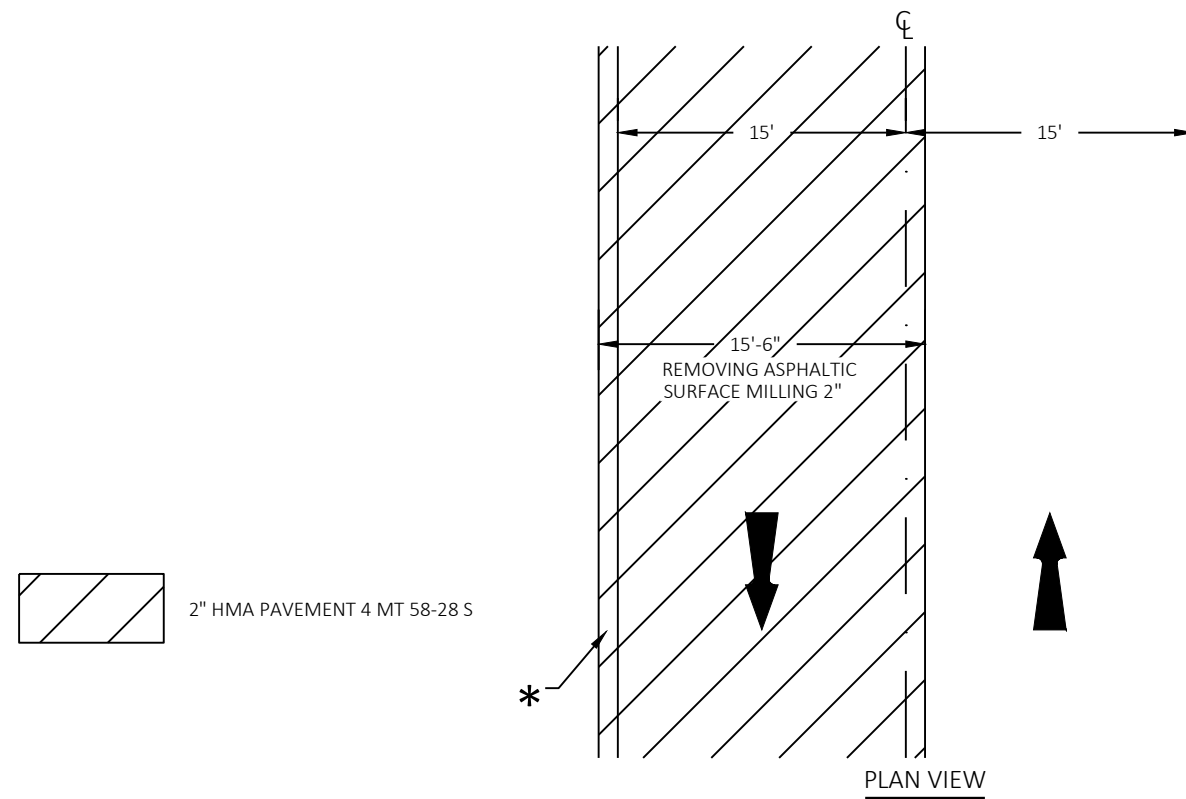
* OR AS DIRECTED
BY THE ENGINEER



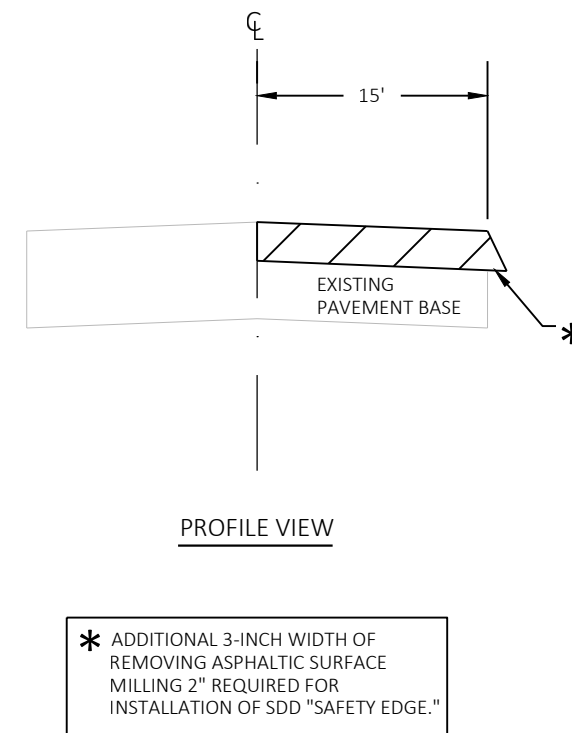
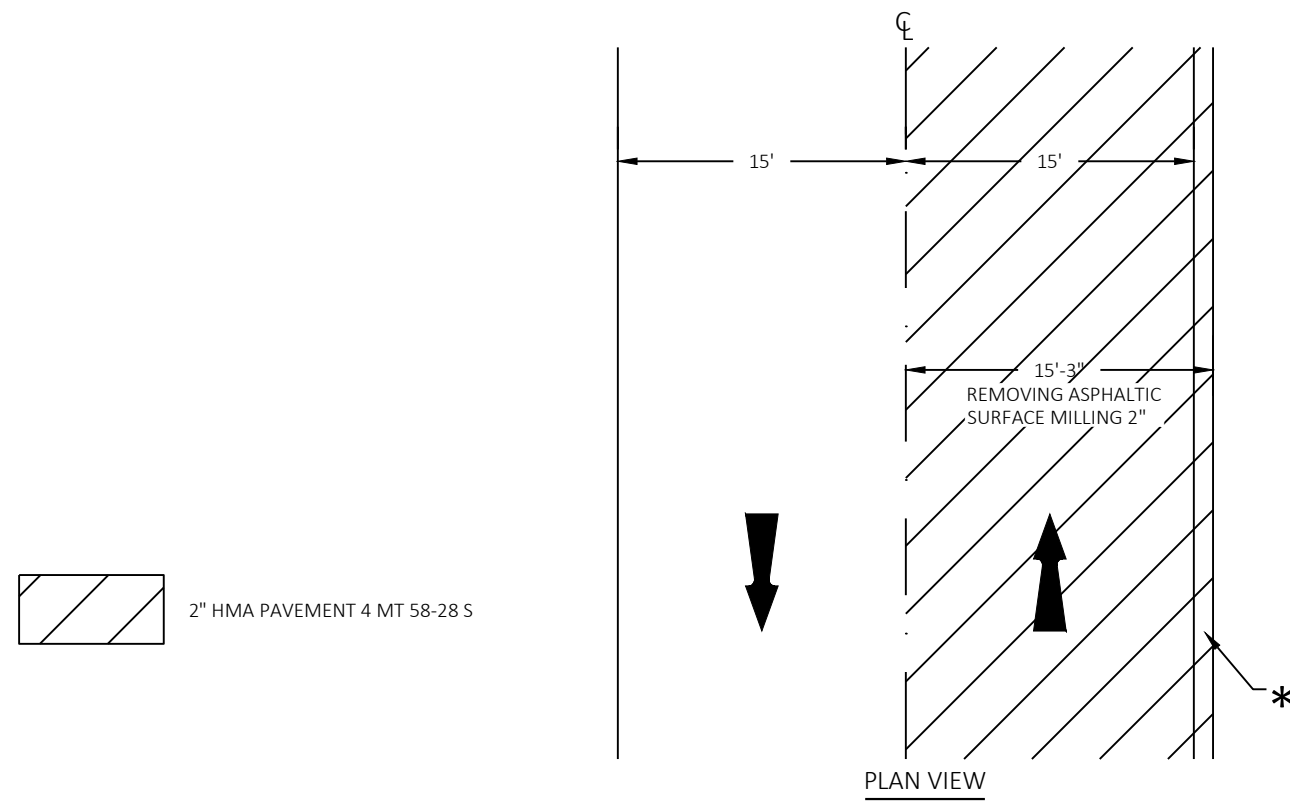
REMOVING DISTRESSED PAVEMENT MILLING
SECTION A-A



PLAN VIEW

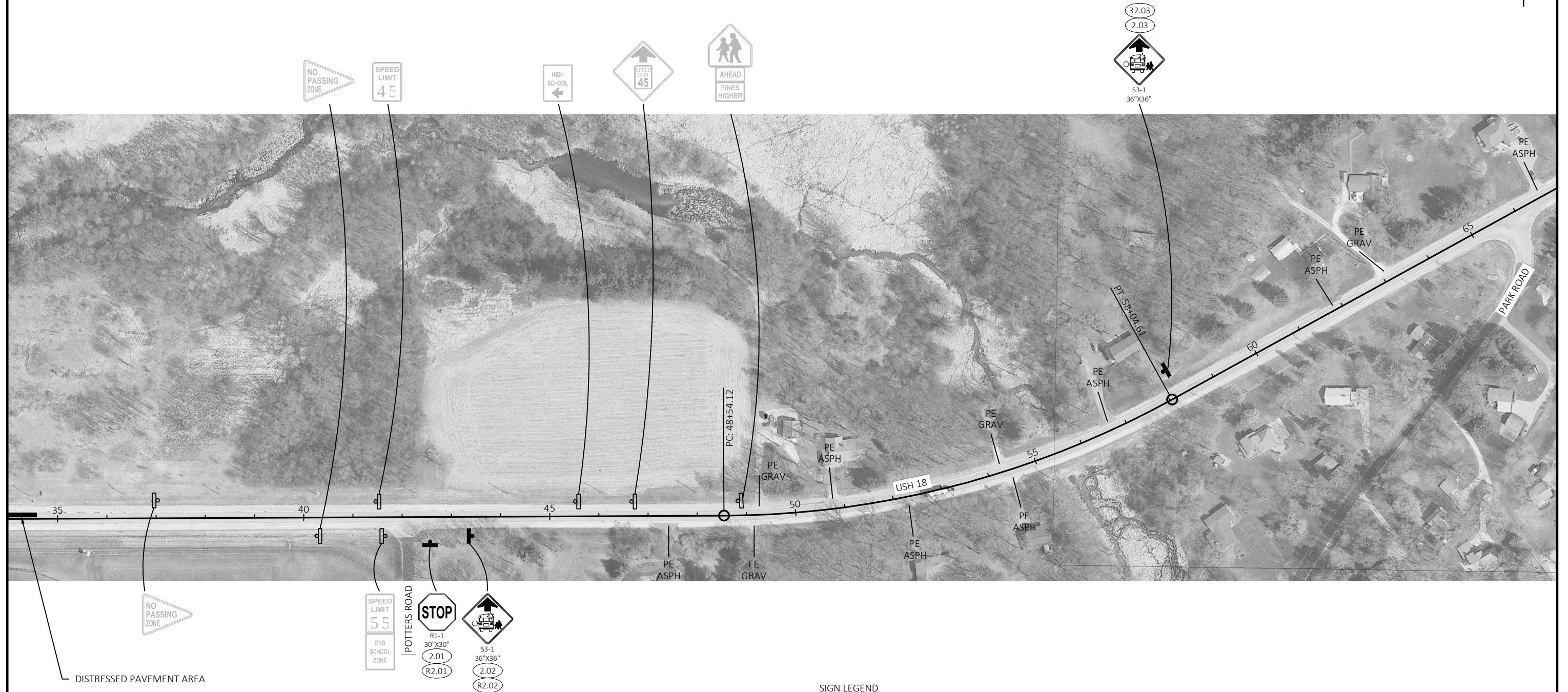


FIRST PASS DETAIL



SECOND PASS DETAIL





SIGN LEGEND

REMOVE & REPLACE	REMOVE	EXISTING TO REMAIN	EXISTING SIGN
 R2-1 24\"X30\" (1.01)	 REMOVE	 (R1.01)	 EXISTING SIGN  PROPOSED SIGN, 1 POST  PROPOSED DOUBLE SIGN, 1 POST  PROPOSED SIGN, 2 POSTS  EXISTING SIGN

PROJECT NO: 3080-03-60

HWY: USH 18

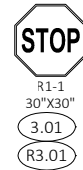
COUNTY: JEFFERSON

PLAN DETAILS

SHEET

12

E



SIGN LEGEND

REMOVE & REPLACE	REMOVE	EXISTING TO REMAIN	EXISTING SIGN BRIDGE
 R2-1 24"x30"	 REMOVE		
1.01 PROPOSED SIGN NUMBER		R1.01 REMOVING SIGN NUMBER	PROPOSED SIGN, 1 POST
			PROPOSED DOUBLE SIGN, 1 POST
			PROPOSED SIGN, 2 POSTS
			EXISTING SIGN



SIGN LEGEND

REMOVE & REPLACE	REMOVE	EXISTING TO REMAIN	EXISTING SIGN
 R2-1 24\"X30\" (1.01) PROPOSED SIGN NUMBER	 REMOVE	 (R1.01) REMOVING SIGN NUMBER	 EXISTING SIGN BRIDGE  PROPOSED SIGN, 1 POST  PROPOSED DOUBLE SIGN, 1 POST  PROPOSED SIGN, 2 POSTS  EXISTING SIGN

PROJECT NO: 3080-03-60

HWY: USH 18

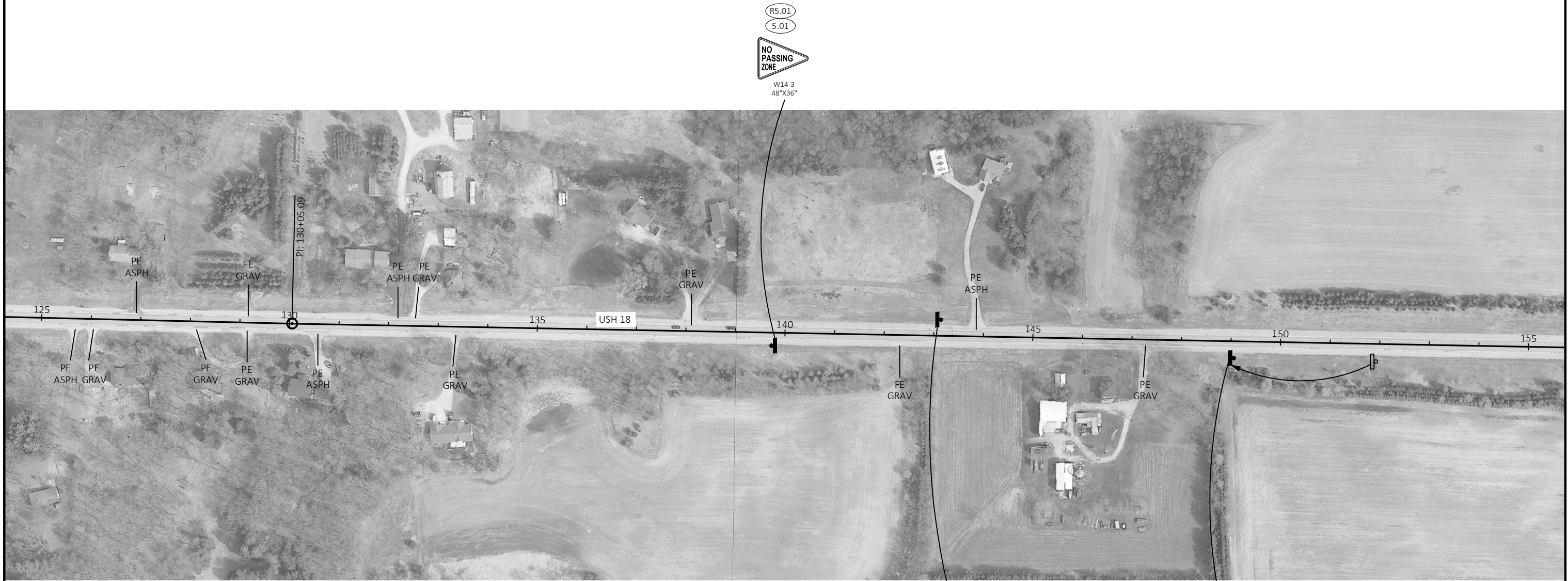
COUNTY: JEFFERSON

PLAN DETAILS

SHEET

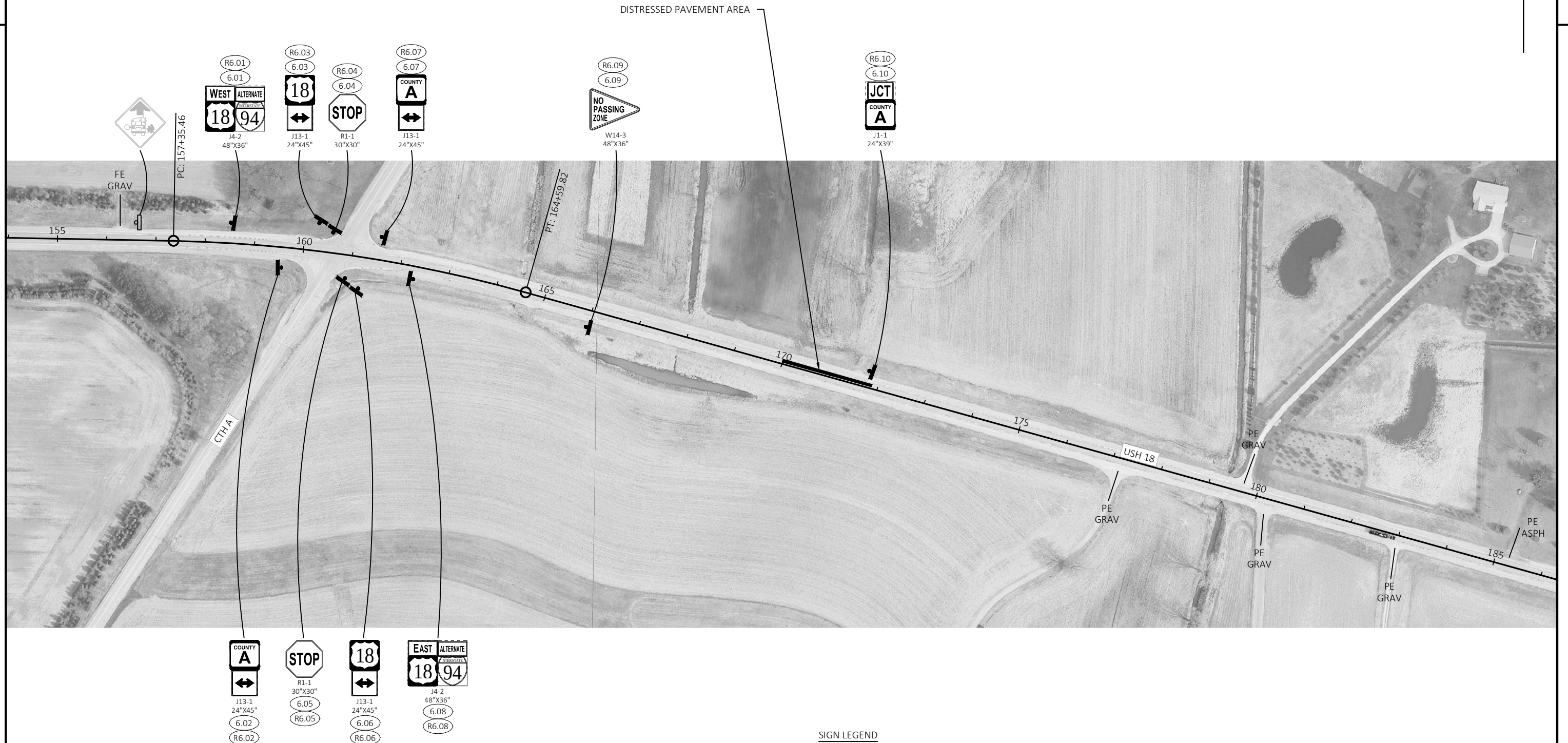
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E



SIGN LEGEND

REMOVE & REPLACE	REMOVE	EXISTING TO REMAIN	EXISTING SIGN BRIDGE
 R2-1 24"x30"	 REMOVE	 R1.01 REMOVING SIGN NUMBER	 PROPOSED SIGN, 1 POST  PROPOSED DOUBLE SIGN, 1 POST  PROPOSED SIGN, 2 POSTS  EXISTING SIGN
1.01 PROPOSED SIGN NUMBER			



SIGN LEGEND

REMOVE & REPLACE	REMOVE	EXISTING TO REMAIN	EXISTING SIGN
 R2-1 24"x30"	 REMOVE	 R1.01	
PROPOSED SIGN NUMBER		REMOVING SIGN NUMBER	BRIDGE
			PROPOSED SIGN, 1 POST
			PROPOSED DOUBLE SIGN, 1 POST
			PROPOSED SIGN, 2 POSTS
			EXISTING SIGN

PROJECT NO: 3080-03-60

HWY: USH 18

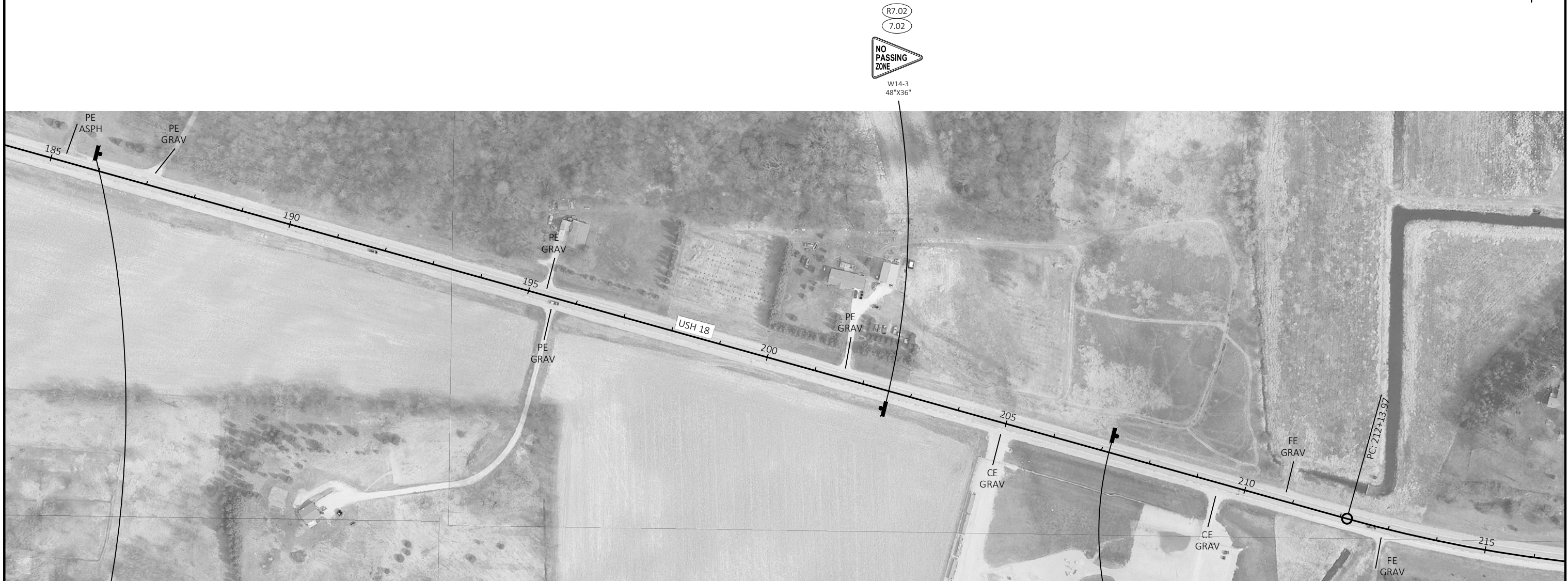
COUNTY: JEFFERSON

PLAN DETAILS

SHEET

16

E



NO
PASSING
ZONE

W14-3
48\"/>

NO
PASSING
ZONE

W14-3
48\"/>

SIGN LEGEND

REMOVE & REPLACE	REMOVE	EXISTING TO REMAIN	EXISTING SIGN BRIDGE
 R2-1 24\"/>	 REMOVE	 R1.01	
PROPOSED SIGN NUMBER		REMOVING SIGN NUMBER	EXISTING SIGN

PROPOSED SIGN, 1 POST	PROPOSED DOUBLE SIGN, 1 POST	PROPOSED SIGN, 2 POSTS	EXISTING SIGN
			
PROPOSED SIGN, 1 POST	PROPOSED DOUBLE SIGN, 1 POST	PROPOSED SIGN, 2 POSTS	EXISTING SIGN

PROJECT NO: 3080-03-60

HWY: USH 18

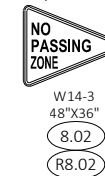
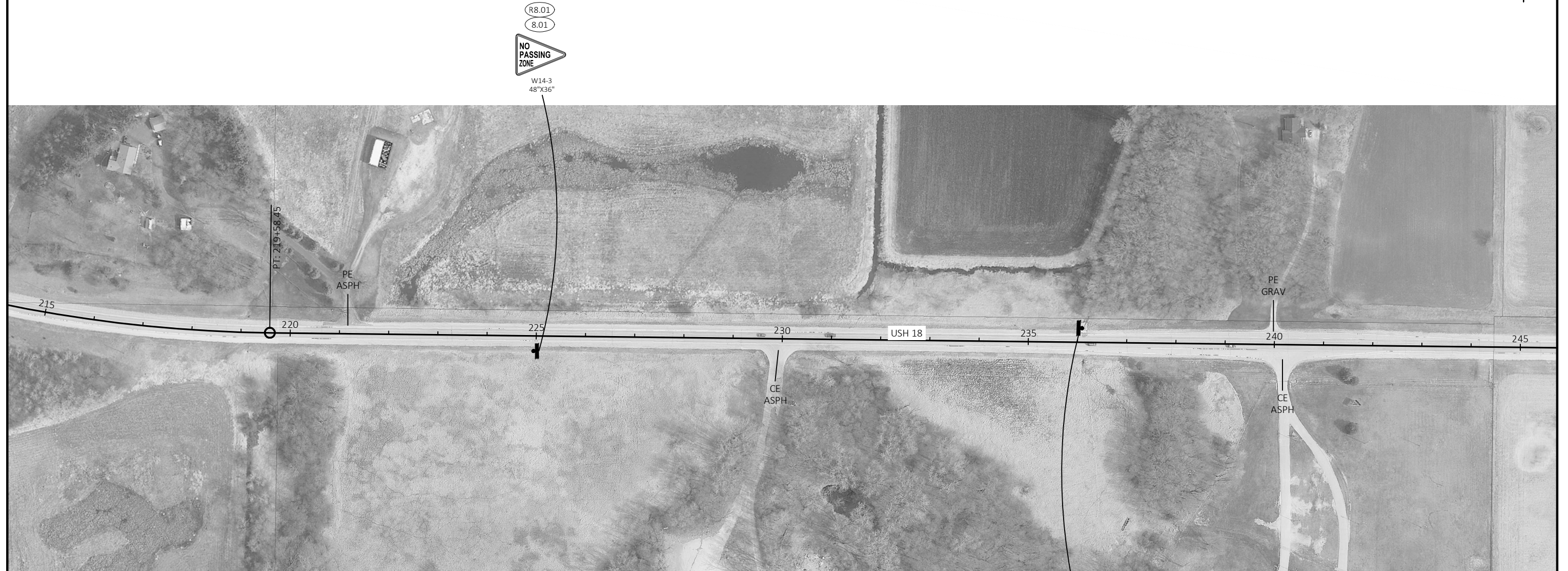
COUNTY: JEFFERSON

PLAN DETAILS

SHEET

17

E



SIGN LEGEND

REMOVE & REPLACE	REMOVE	EXISTING TO REMAIN	EXISTING SIGN
R2-1 24\"X30\"	REMOVE		EXISTING SIGN BRIDGE
1.01	PROPOSED SIGN NUMBER	R1.01	REMOVING SIGN NUMBER
			PROPOSED SIGN, 1 POST
			PROPOSED DOUBLE SIGN, 1 POST
			PROPOSED SIGN, 2 POSTS
			EXISTING SIGN

PROJECT NO: 3080-03-60

HWY: USH 18

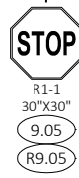
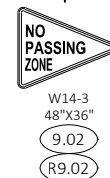
COUNTY: JEFFERSON

PLAN DETAILS

SHEET

18

E



SIGN LEGEND

REMOVE & REPLACE	REMOVE	EXISTING TO REMAIN	EXISTING SIGN
 R2-1 24\"X30\" (1.01)	 REMOVE	 (R1.01)	 EXISTING SIGN BRIDGE
			 PROPOSED SIGN, 1 POST
			 PROPOSED DOUBLE SIGN, 1 POST
			 PROPOSED SIGN, 2 POSTS
			 EXISTING SIGN

PROJECT NO: 3080-03-60

HWY: USH 18

COUNTY: JEFFERSON

PLAN DETAILS

SHEET

19

E



(R10.01)
10.01
NO
PASSING
ZONE
W14-3
48"X36"



SIGN LEGEND

REMOVE & REPLACE	REMOVE	EXISTING TO REMAIN	EXISTING SIGN BRIDGE
R2-1 24"X30"	REMOVE		PROPOSED SIGN, 1 POST
(1.01) PROPOSED SIGN NUMBER		(R1.01) REMOVING SIGN NUMBER	
			PROPOSED DOUBLE SIGN, 1 POST
			PROPOSED SIGN, 2 POSTS
			EXISTING SIGN

PROJECT NO: 3080-03-60

HWY: USH 18

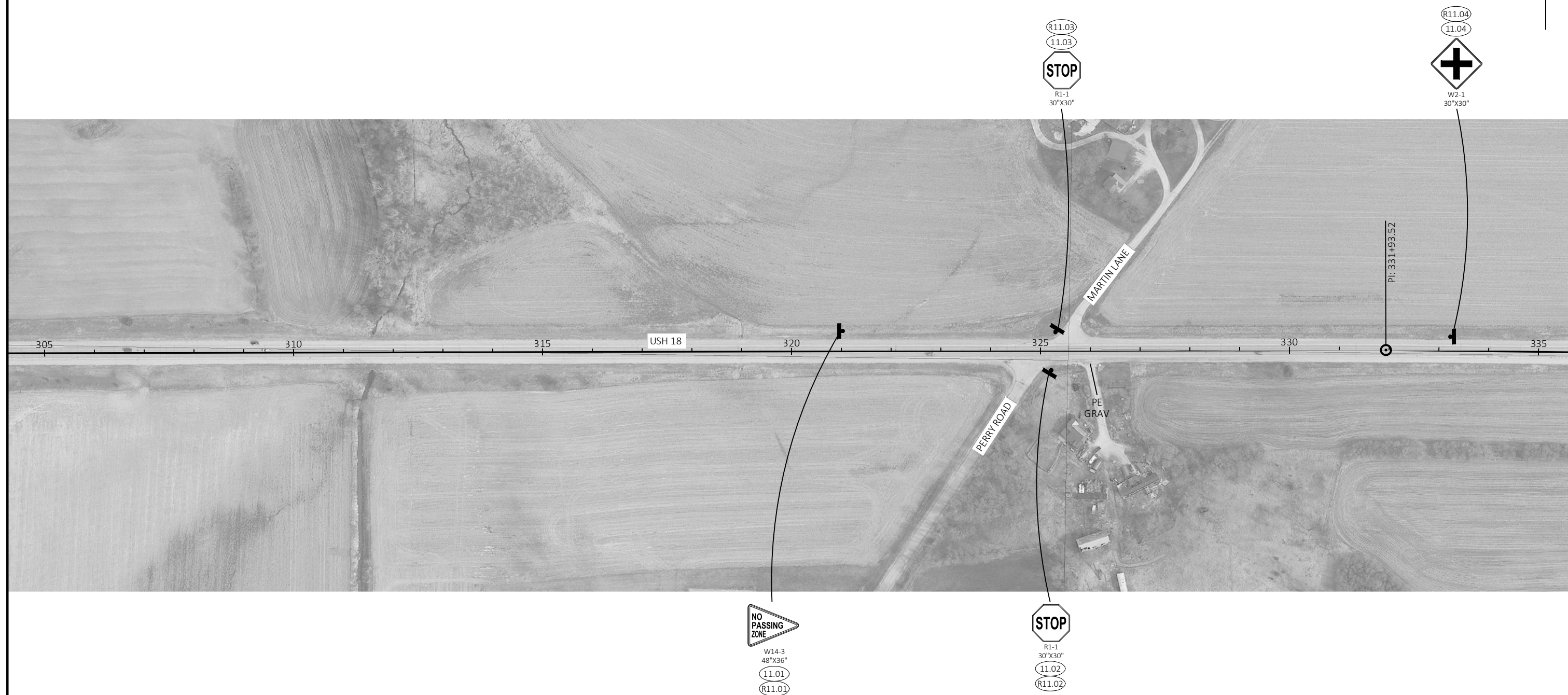
COUNTY: JEFFERSON

PLAN DETAILS

SHEET

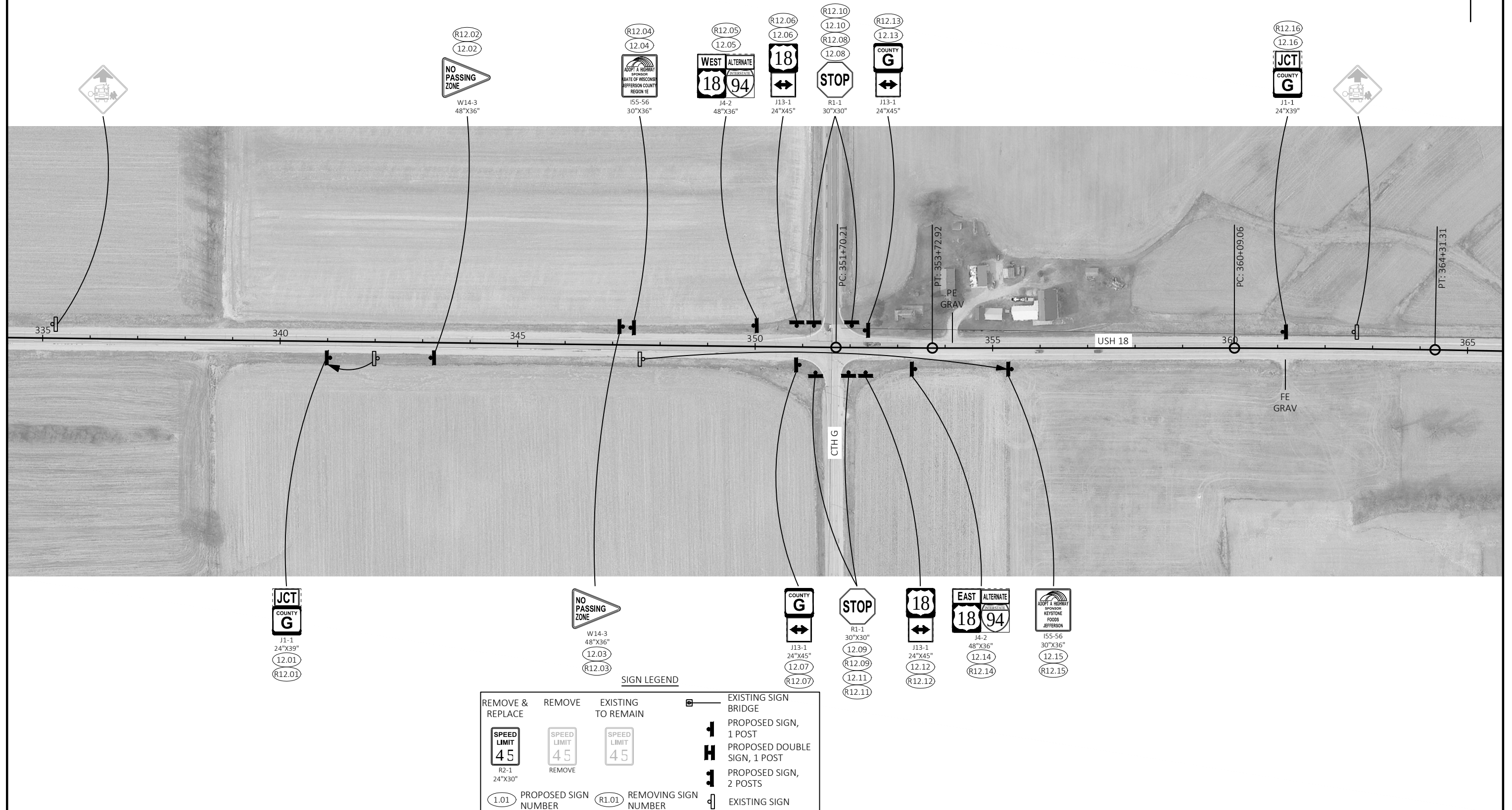
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E



SIGN LEGEND

REMOVE & REPLACE	REMOVE	EXISTING TO REMAIN		EXISTING SIGN BRIDGE
 R2-1 24"x30"	 REMOVE			PROPOSED SIGN, 1 POST
				PROPOSED DOUBLE SIGN, 1 POST
				PROPOSED SIGN, 2 POSTS
	PROPOSED SIGN NUMBER			EXISTING SIGN





R13.01
13.01
NO
PASSING
ZONE
W14-3
48"X36"



SIGN LEGEND

REMOVE & REPLACE	REMOVE	EXISTING TO REMAIN	EXISTING SIGN BRIDGE
 R2-1 24"X30"	 REMOVE		 PROPOSED SIGN, 1 POST
 PROPOSED SIGN NUMBER	 PROPOSED SIGN NUMBER	 REMOVING SIGN NUMBER	 PROPOSED DOUBLE SIGN, 1 POST
			 PROPOSED SIGN, 2 POSTS
			 EXISTING SIGN

PROJECT NO: 3080-03-60

HWY: USH 18

COUNTY: JEFFERSON

PLAN DETAILS

SHEET

23

E



ROAD TO
Aztalan
State Park
1 MILE

REMOVE
R14.01

SIGN LEGEND

REMOVE & REPLACE	REMOVE	EXISTING TO REMAIN	EXISTING SIGN BRIDGE



PROJECT NO: 3080-03-60

HWY: USH 18

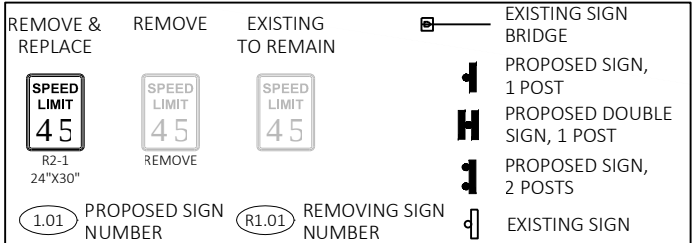
COUNTY: JEFFERSON

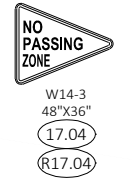
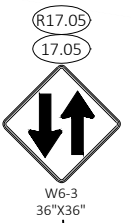
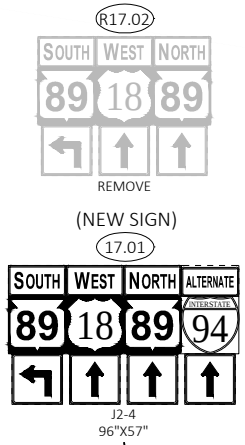
PLAN DETAILS

SHEET

25

E





END PROJECT
STA 497+04

STA. 497+04
END ASPHALTIC CENTERLINE
RUMBLE STRIPS, 2-LANE RURAL

SIGN LEGEND			
REMOVE & REPLACE	REMOVE	EXISTING TO REMAIN	EXISTING SIGN BRIDGE
			 PROPOSED SIGN, 1 POST
R2-1 24"x30"	REMOVE		 PROPOSED DOUBLE SIGN, 1 POST
(1.01) PROPOSED SIGN NUMBER		(R1.01) REMOVING SIGN NUMBER	 PROPOSED SIGN, 2 POSTS
			 EXISTING SIGN

Estimate Of Quantities

3080-03-60					
Line	Item	Item Description	Unit	Total	Qty
0010	204.0105	Removing Pavement Butt Joints	SY	714.000	714.000
0020	204.0120	Removing Asphaltic Surface Milling	SY	171,623.000	171,623.000
0030	213.0100	Finishing Roadway (project) 01. 3080-03-60	EACH	1.000	1.000
0040	305.0110	Base Aggregate Dense 3/4-Inch	TON	10,655.000	10,655.000
0050	305.0500	Shaping Shoulders	STA	980.000	980.000
0060	440.4410	Incentive IRI Ride	DOL	18,604.000	18,604.000
0070	455.0605	Tack Coat	GAL	12,183.000	12,183.000
0080	460.2000	Incentive Density HMA Pavement	DOL	12,660.000	12,660.000
0090	460.6224	HMA Pavement 4 MT 58-28 S	TON	19,737.000	19,737.000
0100	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	38,204.000	38,204.000
0110	618.0100	Maintenance And Repair of Haul Roads (project) 01. 3080-06-30	EACH	1.000	1.000
0120	619.1000	Mobilization	EACH	1.000	1.000
0130	624.0100	Water	MGAL	110.000	110.000
0140	628.1504	Silt Fence	LF	500.000	500.000
0150	628.7504	Temporary Ditch Checks	LF	160.000	160.000
0160	628.7555	Culvert Pipe Checks	EACH	4.000	4.000
0170	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	80.000	80.000
0180	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	25.000	25.000
0190	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	9.000	9.000
0200	634.0622	Posts Wood 4x6-Inch X 22-FT	EACH	4.000	4.000
0210	637.2210	Signs Type II Reflective H	SF	720.830	720.830
0220	637.2230	Signs Type II Reflective F	SF	189.750	189.750
0230	638.2602	Removing Signs Type II	EACH	108.000	108.000
0240	638.3000	Removing Small Sign Supports	EACH	121.000	121.000
0250	642.5001	Field Office Type B	EACH	1.000	1.000
0260	643.0100	Traffic Control (project) 01. 3080-03-60	EACH	1.000	1.000
0270	643.0900	Traffic Control Signs	DAY	2,880.000	2,880.000
0280	643.1050	Traffic Control Signs PCMS	DAY	40.000	40.000
0290	646.0106	Pavement Marking Epoxy 4-Inch	LF	48,122.000	48,122.000
0300	646.0126	Pavement Marking Epoxy 8-Inch	LF	1,800.000	1,800.000
0310	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	98,148.000	98,148.000
0320	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	6.000	6.000
0330	647.0356	Pavement Marking Words Epoxy	EACH	6.000	6.000
0340	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	150.000	150.000
0350	647.0766	Pavement Marking Crosswalk Epoxy 6-Inch	LF	160.000	160.000
0360	647.0776	Pavement Marking Crosswalk Epoxy 12-Inch	LF	150.000	150.000
0370	648.0100	Locating No-Passing Zones	MI	9.300	9.300
0380	649.0403	Temporary Pavement Marking Epoxy 4-Inch	LF	48,122.000	48,122.000

Estimate Of Quantities					
3080-03-60					
Line	Item	Item Description	Unit	Total	Qty
0390	650.8000	Construction Staking Resurfacing Reference	LF	49,115.000	49,115.000
0400	690.0150	Sawing Asphalt	LF	564.000	564.000
0410	SPV.0060	Special 01. LANDMARK REFERENCE MONUMENTS SPECIAL	EACH	10.000	10.000
0420	SPV.0180	Special 01. REMOVING DISTRESSED PAVEMENT MILLING	SY	2,400.000	2,400.000

204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS	
LOCATION	SY
BEGIN PROJECT	133
ENGLAND STREET	43
VERBERG STREET	21
SIMONSON STREET	21
POTTERS ROAD	21
PARK ROAD	21
HOPE LAKE ROAD	21
APPLEGATE LANE	21
OLD FOREST ROAD	21
WOLFF ROAD	21
CTH A	43
BIGELOW ROAD	21
KREKLOW ROAD	21
PERRY ROAD	21
MARTIN LANE	21
CTH G	43
STH 89 NORTH	21
STH 89 SOUTH	21
GEHRKE LANE	21
END PROJECT	133
TOTAL:	714

ASPHALT PAVEMENT ITEMS							
STATION	TO	STATION	LOCATION	455.0605	460.2000	460.6224	465.0475
				TACK COAT	INCENTIVE DENSITY	HMA PAVMENT 4MT 58-28 S	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
				GAL	DOL	TON	LF
5+90	-	100+00	USH 18	2,251	2,290	3,571	--
100+00	-	200+00	USH 18	2,392	2,430	3,795	8,500
200+00	-	300+00	USH 18	2,392	2,430	3,795	10,000
300+00	-	400+00	USH 18	2,392	2,430	3,795	10,000
400+00	-	497+04	USH 18	2,321	2,360	3,683	9,704
26+50	-	34+00	BRIDGE WIDENING	84	90	134	--
VARIES	-	-	SIDE ROAD MATCH	112	120	179	--
VARIES	-	-	19 SIDE ROAD RIGHT TURN WIDENINGS	71	80	113	--
VARIES	-	-	DISTRESSED PAVEMENT MILLING	168	430	672	--
TOTAL:				12,183	12,660	19,737	38,204

204.0120 REMOVING ASPHALTIC SURFACE MILLING						
STATION	TO	STATION	LOCATION	LF	WIDTH	SY
5+90	-	100+00	USH 18	9,410	30.75	32,150
100+00	-	200+00	USH 18	10,000	30.75	34,167
200+00	-	300+00	USH 18	10,000	30.75	34,167
300+00	-	400+00	USH 18	10,000	30.75	34,167
400+00	-	497+04	USH 18	9,704	30.75	33,155
26+50	-	34+00	BRIDGE WIDENING	900	12	1,200
VARIES	-	-	SIDE ROAD MATCHING	1,200	12	1,600
VARIES	-	-	19 SIDE ROAD RIGHT TURN WIDENINGS	1,140	8	1,017
TOTAL:						171,623

BASE AGGREGATE DENSE					
STATION	TO	STATION	LOCATION	305.0110	624.0100
				BASE AGGREGATE DENSE, 3/4-INCH TON	WATER MGAL
5+90	-	497+04	USH 18, LEFT SHOULDER	6,064	60
5+90	-	497+04	USH 18, RIGHT SHOULDER	4,084	40
-	-	-	UNDISTRIBUTED	507	10
TOTAL:				10,655	110

SPV.0180.01 REMOVING DISTRESSED PAVEMENT MILLING						
STATION	TO	STATION	LOCATION	LF	WIDTH	SY
5+90	-	497+04	USH 18	5,400	4	2,400
TOTAL:						2,400

305.0500 SHAPING SHOULDERS				
STATION	TO	STATION	LOCATION	STA
5+90	-	497+04	USH 18	980
TOTAL:				980

PERMANENT SIGNING														
SIGN NUMBER	APPROX. LOCATION	SIGN CODE	SIGN W x H	MESSAGE	634.0616	634.0618	634.0620	634.0622	637.2210	637.2230	638.2602	638.3000	REMARKS	
					POSTS WOOD	POSTS WOOD	POSTS WOOD	POSTS WOOD	SIGNS	SIGNS	REMOVING	REMOVING		
					4X6-INCH	4X6-INCH	4X6-INCH	4X6-INCH	TYPE II	TYPE II	SIGNS	SMALL SIGN		
					X 16-FT	X 18-FT	X 20-FT	X 22-FT	REFLECTIVE H	REFLECTIVE F	TYPE II	SUPPORTS		
					EACH	EACH	EACH	EACH	SF	SF	EACH	EACH		
R1.01	STA. 8+50 RT	W11-15	30 x 30	BICYCLE/PEDESTRIAN SYMBOL	--	--	--	--	--	--	1	1		
R1.01	STA. 8+50 RT		24 x 18	TRAIL CROSSING	--	--	--	--	--	--	1	--		
R1.01	STA. 8+50 RT	W16-7	24 x 12	DIAGONAL ARROW	--	--	--	--	--	--	1	--		
R1.02	STA. 17+65 RT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1		
R1.03	STA. 29+00 LT	I2-2	48 x 15	DANE CO	--	--	--	--	--	--	1	2		
R1.04	STA. 29+00 RT	I2-2	72 x 15	JEFFERSON CO	--	--	--	--	--	--	1	2		
R1.06	STA. 31+80 RT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1		
1.02	STA. 17+65 RT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6	--	--		
1.03	STA. 29+00 LT	I2-2	48 x 15	DANE CO	1	1	--	--	5.00	--	--	--		
1.04	STA. 29+00 RT	I2-2	72 x 15	JEFFERSON CO	1	1	--	--	7.50	--	--	--		
1.05	STA. 30+60 LT	I2-3	72 x 24	CAMBRIDGE POPULATION	1	1	--	--	12.00	--	--	--		
1.06	STA. 31+80 RT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--		
R2.01	STA. 42+50 RT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1		
R2.02	STA. 43+40 RT	S3-1	36 x 36	SCHOOL BUS STOP AHEAD	--	--	--	--	--	--	1	1		
R2.03	STA. 58+15 LT	S3-1	36 x 36	SCHOOL BUS STOP AHEAD	--	--	--	--	--	--	1	1		
2.01	STA. 42+50 RT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--		
2.02	STA. 43+40 RT	S3-1	36 x 36	SCHOOL BUS STOP AHEAD	1	--	--	--	9.00	--	--	--		
2.03	STA. 58+15 LT	S3-1	36 x 36	SCHOOL BUS STOP AHEAD	1	--	--	--	9.00	--	--	--		
R3.01	STA. 66+25 RT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1		
R3.02	STA. 71+40 RT	W1-4R	30 x 30	CURVE AHEAD (RIGHT)	--	--	--	--	--	--	1	1	MOVE SIGN LOCATION TO STA. 79+00 RT	
R3.03	STA. 84+85 LT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1		
3.01	STA. 66+25 RT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--		
3.02	STA. 79+20 RT	W1-4R	30 x 30	CURVE AHEAD (RIGHT)	1	--	--	--	--	6.25	--	--	SIGN LOCATION MOVED FROM STA. 71+40 RT	
3.03	STA. 84+85 LT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--		
R4.01	STA. 98+70 RT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1		

CONTINUES ON NEXT SHEET

CONTINUED FROM PREVIOUS SHEET														
SIGN NUMBER	APPROX. LOCATION	SIGN CODE	SIGN W x H	MESSAGE	634.0616	634.0618	634.0620	634.0622	637.2210	637.2230	638.2602	638.3000	REMARKS	
					POSTS WOOD	POSTS WOOD	POSTS WOOD	POSTS WOOD	SIGNS	SIGNS	REMOVING	REMOVING		
					4X6-INCH	4X6-INCH	4X6-INCH	4X6-INCH	TYPE II	TYPE II	SIGNS	SMALL SIGN		
					X 16-FT	X 18-FT	X 20-FT	X 22-FT	REFLECTIVE H	REFLECTIVE F	TYPE II	SUPPORTS		
R4.02	STA. 107+50 LT	W1-4R	30 x 30	CURVE AHEAD (RIGHT)	--	--	--	--	--	--	1	1	MOVE SIGN LOCATION TO STA. 100+50 LT	
R4.03	STA. 107+90 LT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1		
R4.04	STA. 118+65 LT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1		
R4.05	STA. 120+25 RT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1		
R4.06	STA. 120+50 RT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1		
4.01	STA. 98+70 RT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--		
4.02	STA. 100+50 LT	W1-4R	30 x 30	CURVE AHEAD (RIGHT)	1	--	--	--	--	6.25	--	--	SIGN LOCATION MOVED FROM STA. 107+50 LT	
4.03	STA. 107+90 LT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--		
4.04	STA. 118+65 LT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--		
4.05	STA. 120+25 RT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--		
4.06	STA. 120+50 RT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--		
R5.01	STA. 139+70 RT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1		
R5.02	STA. 143+10 LT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1		
R5.03	STA. 152+00 RT	J1-1	24 x 39	JCT COUNTY A	--	--	--	--	--	--	1	1	MOVE SIGN LOCATION TO STA. 149+00 RT	
5.01	STA. 139+70 RT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--		
5.02	STA. 143+10 LT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--		
5.03	STA. 149+00 RT	J1-1	24 x 39	JCT COUNTY A	--	1	--	--	6.50	--	--	--	SIGN LOCATION MOVED FROM STA. 152+00 RT	
R6.01	STA. 158+50 LT	J4-2	48 x 36	ROUTE ASSEMBLY	--	--	--	--	--	--	1	1		
R6.02	STA. 159+55 RT	J13-1	24 x 45	COUNTY A W/ ARROW	--	--	--	--	--	--	1	1		
R6.03	STA. 160+40 LT	J13-1	24 x 45	US 18 W/ ARROW	--	--	--	--	--	--	1	1		
R6.04	STA. 160+50 LT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1		
R6.05	STA. 160+90 RT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1		
R6.06	STA. 161+00 RT	J13-1	24 x 45	US 18 W/ ARROW	--	--	--	--	--	--	1	1		
R6.07	STA. 161+45 LT	J13-1	24 x 45	COUNTY A W/ ARROW	--	--	--	--	--	--	1	1		
R6.08	STA. 162+30 RT	J4-2	48 x 36	ROUTE ASSEMBLY	--	--	--	--	--	--	1	1		
R6.09	STA. 164+90 RT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1		
R6.10	STA. 171+65 LT	J1-1	24 x 39	JCT COUNTY A	--	--	--	--	--	--	1	1		
6.01	STA. 158+50 LT	J4-2	48 x 36	ROUTE ASSEMBLY	1	--	--	--	12.00	--	--	--		
6.02	STA. 159+55 RT	J13-1	24 x 45	COUNTY A W/ ARROW	--	1	--	--	7.50	--	--	--		
6.03	STA. 160+40 LT	J13-1	24 x 45	US 18 W/ ARROW	--	1	--	--	7.50	--	--	--		

CONTINUES ON NEXT SHEET

CONTINUED FROM PREVIOUS SHEET													
SIGN NUMBER	APPROX. LOCATION	SIGN CODE	SIGN W x H	MESSAGE	634.0616	634.0618	634.0620	634.0622	637.2210	637.2230	638.2602	638.3000	REMARKS
					POSTS WOOD	POSTS WOOD	POSTS WOOD	POSTS WOOD	SIGNS	SIGNS	REMOVING	REMOVING	
					4X6-INCH	4X6-INCH	4X6-INCH	4X6-INCH	TYPE II	TYPE II	SIGNS	SMALL SIGN	
					X 16-FT	X 18-FT	X 20-FT	X 22-FT	REFLECTIVE H	REFLECTIVE F	TYPE II	SUPPORTS	
					EACH	EACH	EACH	EACH	SF	SF	EACH	EACH	
6.04	STA. 160+50 LT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--	
6.05	STA. 160+90 RT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--	
6.06	STA. 161+00 RT	J13-1	24 x 45	US 18 W/ ARROW	--	1	--	--	7.50	--	--	--	
6.07	STA. 161+45 LT	J13-1	24 x 45	COUNTY A W/ ARROW	--	1	--	--	7.50	--	--	--	
6.08	STA. 162+30 RT	J4-2	48 x 36	ROUTE ASSEMBLY	1	--	--	--	12.00	--	--	--	
6.09	STA. 164+90 RT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--	
6.10	STA. 171+65 LT	J1-1	24 x 39	JCT COUNTY A	--	1	--	--	6.50	--	--	--	
R7.01	STA. 185+95 LT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1	
R7.02	STA. 202+40 RT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1	
R7.03	STA. 207+25 LT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1	
7.01	STA. 185+95 LT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--	
7.02	STA. 202+40 RT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--	
7.03	STA. 207+25 LT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--	
R8.01	STA. 224+90 RT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1	
R8.02	STA. 236+10 LT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1	
8.01	STA. 224+90 RT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--	
8.02	STA. 236+10 LT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--	
R9.01	STA. 248+05 RT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1	
R9.02	STA. 260+45 LT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1	
R9.03	STA. 267+50 RT	I55-56	30 x 36	ADOPT A HIGHWAY	--	--	--	--	--	--	1	1	
R9.04	STA. 271+65 LT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1	
R9.05	STA. 272+25 RT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1	
9.01	STA. 248+05 RT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--	
9.02	STA. 260+45 LT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--	
9.03	STA. 267+50 RT	I55-56	30 x 36	ADOPT A HIGHWAY	1	--	--	--	7.50	--	--	--	
9.04	STA. 271+65 LT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--	
9.05	STA. 272+25 RT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--	
R10.01	STA. 275+50 RT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1	
10.01	STA. 275+50 RT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--	
R11.01	STA. 321+00 LT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1	

CONTINUES ON NEXT SHEET

CONTINUED FROM PREVIOUS SHEET

SIGN NUMBER	APPROX. LOCATION	SIGN CODE	SIGN W x H	MESSAGE	634.0616	634.0618	634.0620	634.0622	637.2210	637.2230	638.2602	638.3000	REMARKS
					POSTS WOOD	POSTS WOOD	POSTS WOOD	POSTS WOOD	SIGNS	SIGNS	REMOVING	REMOVING	
					4X6-INCH	4X6-INCH	4X6-INCH	4X6-INCH	TYPE II	TYPE II	SIGNS	SMALL SIGN	
					X 16-FT	X 18-FT	X 20-FT	X 22-FT	REFLECTIVE H	REFLECTIVE F	TYPE II	SUPPORTS	
					EACH	EACH	EACH	EACH	SF	SF	EACH	EACH	
R11.02	STA. 325+20 RT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1	
R11.03	STA. 325+30 LT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1	
R11.04	STA. 333+20 LT	W2-1	30 x 30	CROSS ROAD	--	--	--	--	--	--	1	1	
11.01	STA. 321+00 LT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--	
11.02	STA. 325+20 RT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--	
11.03	STA. 325+30 LT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--	
11.04	STA. 333+20 LT	W2-1	30 x 30	CROSS ROAD	1	--	--	--	--	6.25	--	--	
R12.01	STA. 342+00 RT	J1-1	24 x 39	JCT COUNTY G	--	--	--	--	--	--	1	1	MOVE SIGN LOCATION TO STA. 341+00 RT
R12.02	STA. 343+10 RT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1	
R12.03	STA. 347+20 LT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1	
R12.04	STA. 347+40 LT	I55-56	30 x 36	ADOPT A HIGHWAY	--	--	--	--	--	--	1	1	
R12.05	STA. 349+90 LT	J4-2	48 x 36	ROUTE ASSEMBLY	--	--	--	--	--	--	1	1	
R12.06	STA. 350+90 LT	J13-1	24 x 45	US 18 W/ ARROW	--	--	--	--	--	--	1	1	
R12.07	STA. 351+00 RT	J13-1	24 x 45	COUNTY G W/ARROW	--	--	--	--	--	--	1	1	
R12.08	STA. 351+20 LT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1	
R12.09	STA. 351+20 RT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1	
R12.10	STA. 352+00 LT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1	
R12.11	STA. 352+00 RT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1	
R12.12	STA. 352+30 RT	J13-1	24 x 45	US 18 W/ ARROW	--	--	--	--	--	--	1	1	
R12.13	STA. 352+40 LT	J13-1	24 x 45	COUNTY G W/ARROW	--	--	--	--	--	--	1	1	
R12.14	STA. 353+40 RT	J4-2	48 x 36	ROUTE ASSEMBLY	--	--	--	--	--	--	1	1	
R12.15	STA. 347+50 RT	I55-56	30 x 36	ADOPT A HIGHWAY	--	--	--	--	--	--	1	1	MOVE SIGN LOCATION TO STA. 355+40 RT
R12.16	STA. 361+10 LT	J1-1	24 x 39	JCT COUNTY G	--	--	--	--	--	--	1	1	
12.01	STA. 341+00 RT	J1-1	24 x 39	JCT COUNTY G	--	1	--	--	6.50	--	--	--	SIGN LOCATION MOVED FROM STA. 342+00 RT
12.02	STA. 343+10 RT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--	
12.03	STA. 347+20 LT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--	
12.04	STA. 347+40 LT	I55-56	30 x 36	ADOPT A HIGHWAY	1	--	--	--	7.50	--	--	--	
12.05	STA. 349+90 LT	J4-2	48 x 36	ROUTE ASSEMBLY	1	--	--	--	12.00	--	--	--	
12.06	STA. 350+90 LT	J13-1	24 x 45	US 18 W/ ARROW	--	1	--	--	7.50	--	--	--	
12.07	STA. 351+00 RT	J13-1	24 x 45	COUNTY G W/ARROW	--	1	--	--	7.50	--	--	--	

CONTINUES ON NEXT SHEET

3

CONTINUED FROM PREVIOUS SHEET														
SIGN NUMBER	APPROX. LOCATION	SIGN CODE	SIGN W x H	MESSAGE	634.0616	634.0618	634.0620	634.0622	637.2210	637.2230	638.2602	638.3000	REMARKS	
					POSTS WOOD	POSTS WOOD	POSTS WOOD	POSTS WOOD	SIGNS	SIGNS	REMOVING	REMOVING		
					4X6-INCH X 16-FT EACH	4X6-INCH X 18-FT EACH	4X6-INCH X 20-FT EACH	4X6-INCH X 22-FT EACH	TYPE II REFLECTIVE H SF	TYPE II REFLECTIVE F SF	SIGNS TYPE II EACH	SMALL SIGN SUPPORTS EACH		
12.08	STA. 351+20 LT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--		
12.09	STA. 351+20 RT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--		
12.10	STA. 352+00 LT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--		
12.11	STA. 352+00 RT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--		
12.12	STA. 352+30 RT	J13-1	24 x 45	US 18 W/ ARROW	--	1	--	--	7.50	--	--	--		
12.13	STA. 352+40 LT	J13-1	24 x 45	COUNTY G W/ARROW	--	1	--	--	7.50	--	--	--		
12.14	STA. 353+40 RT	J4-2	48 x 36	ROUTE ASSEMBLY	1	--	--	--	12.00	--	--	--		
12.15	STA. 355+40 RT	I55-56	30 x 36	ADOPT A HIGHWAY	1	--	--	--	7.50	--	--	--	SIGN LOCATION MOVED FROM STA. 347+50 RT	
12.16	STA. 361+10 LT	J1-1	24 x 39	JCT COUNTY G	--	1	--	--	6.50	--	--	--		
R13.01	STA. 368+20 RT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1		
13.01	STA. 368+20 RT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--		
R14.01	STA. 403+10 RT	D7-52	48 x 40	STATE PARK 1 MILE W/ARROW	--	--	--	--	--	--	1	2		
R15.01	STA. 443+30 RT	J1-1	24 x 39	JCT 89	--	--	--	--	--	--	1	1	MOVE SIGN LOCATION TO STA. 446+25 RT	
R15.02	STA. 446+60 LT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1		
R15.03	STA. 448+00 RT	J2-4	96 x 57	ROUTE ASSEMBLY	--	--	--	--	--	--	1	2		
R15.04	STA. 448+70 LT	D2-1	60 x 12	MADISON 29	--	--	--	--	--	--	1	2		
R15.05	STA. 450+40 LT	I55-56	30 x 36	ADOPT A HIGHWAY	--	--	--	--	--	--	1	1		
R15.07	STA. 452+00 RT	D1-2	72 x 30	JEFFERSON/LAKE MILLS W/ARROWS	--	--	--	--	--	--	1	2		
R15.09	STA. 454+25 RT	D7-53	48 x 36	STATE PARK WITH ARROW	--	--	--	--	--	--	1	2		
R15.10	STA. 454+30 LT	J4-2	48 x 36	ROUTE ASSEMBLY	--	--	--	--	--	--	1	1		
15.01	STA. 446+25 RT	J1-1	24 x 39	JCT 89	--	1	--	--	6.50	--	--	--	SIGN LOCATION MOVED FROM STA. 443+30 RT	
15.02	STA. 446+60 LT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--		
15.03	STA. 448+00 RT	J2-4	96 x 57	ROUTE ASSEMBLY	--	--	1	1	38.00	--	--	--		
15.05	STA. 450+40 LT	I55-56	30 x 36	ADOPT A HIGHWAY	1	--	--	--	7.50	--	--	--		
15.06	STA. 451+60 LT	D1-2	78 x 24	CAMBRIDGE/MADISON DISTANCE	1	1	--	--	13.00	--	--	--		
15.07	STA. 452+00 RT	D1-2	72 x 30	JEFFERSON/LAKE MILLS W/ARROWS	1	1	--	--	15.00	--	--	--		
15.08	STA. 452+90 LT	R2-1	24 x 30	SPEED LIMIT 55 MPH	1	--	--	--	5.00	--	--	--		
15.10	STA. 454+30 LT	J4-2	48 x 36	ROUTE ASSEMBLY	1	--	--	--	12.00	--	--	--		
R16.01	STA. 455+90 LT	R5-1	30 x 30	DO NOT ENTER	--	--	--	--	--	--	1	1		
R16.02	STA. 456+10 LT	R1-1	36 x 36	STOP	--	--	--	--	--	--	1	1		
R16.03	STA. 456+70 LT	R1-1	36 x 36	STOP	--	--	--	--	--	--	1	1		
R16.04	STA. 456+70 LT	W12-1D	24 x 24	DOUBLE DIAGONAL ARROW	--	--	--	--	--	--	1	1		
R16.05	STA. 456+70 LT	R4-7	24 x 30	KEEP RIGHT SYMBOL	--	--	--	--	--	--	1	1		
R16.07	STA. 457+75 RT	J3-2	x	ROUTE ASSEMBLY	--	--	--	--	--	--	1	1		

CONTINUES ON NEXT SHEET

3

CONTINUED FROM PREVIOUS SHEET

SIGN NUMBER	APPROX. LOCATION	SIGN CODE	SIGN W x H	MESSAGE	634.0616	634.0618	634.0620	634.0622	637.2210	637.2230	638.2602	638.3000	REMARKS
					POSTS WOOD	POSTS WOOD	POSTS WOOD	POSTS WOOD	SIGNS	SIGNS	REMOVING	REMOVING	
					4X6-INCH	4X6-INCH	4X6-INCH	4X6-INCH	TYPE II	TYPE II	SIGNS	SMALL SIGN	
					X 16-FT	X 18-FT	X 20-FT	X 22-FT	REFLECTIVE H	REFLECTIVE F	TYPE II	SUPPORTS	
					EACH	EACH	EACH	EACH	SF	SF	EACH	EACH	
R16.08	STA. 457+75 RT	J3-2	x	ROUTE ASSEMBLY	--	--	--	--	--	--	1	1	
R16.09	STA. 457+75 RT	W1-7	48 x 24	TWO DIRECTION LARGE ARROW	--	--	--	--	--	--	1	1	MOVE SIGN LOCATION TO STA. 457+20 RT
R16.10	STA. 457+80 LT	J3-2	48 x 57	ROUTE ASSEMBLY	--	--	--	--	--	--	1	1	
R16.11	STA. 459+90 RT	J4-3	72 x 36	ROUTE ASSEMBLY	--	--	--	--	--	--	1	1	
R16.12	STA. 462+00 LT	D7-53	48 x 36	STATE PARK WITH ARROW	--	--	--	--	--	--	1	2	
R16.13	STA. 464+40 LT	D1-2	72 x 30	CAMBRIDGE/LAKE MILLS W/ARROWS	--	--	--	--	--	--	1	2	
R16.14	STA. 468+15 RT	J2-3	72 x 57	ROUTE ASSEMBLY	--	--	--	--	--	--	1	1	
R16.15	STA. 468+35 LT	J2-3	48 x 57	ROUTE ASSEMBLY	--	--	--	--	--	--	1	1	
R16.16	STA. 468+35 LT	J3-2	24 x 57	ROUTE ASSEMBLY	--	--	--	--	--	--	1	1	
R16.17	STA. 471+10 RT	D1-2	90 x 30	JEFFERSON/FT. ATKINSON W/ARROWS	--	--	--	--	--	--	1	2	
R16.18	STA. 475+80 LT	J4-3	72 x 36	ROUTE ASSEMBLY	--	--	--	--	--	--	1	2	
R16.19	STA. 477+80 RT	J3-1	24 x 57	ROUTE ASSEMBLY	--	--	--	--	--	--	1	1	
R16.20	STA. 478+70 LT	W1-7	48 x 24	TWO DIRECTION LARGE ARROW	--	--	--	--	--	--	1	1	
R16.21	STA. 478+80 RT	R1-1	36 x 36	STOP	--	--	--	--	--	--	1	1	
R16.22	STA. 478+80 RT	W12-1D	24 x 24	DOUBLE DIAGONAL ARROW	--	--	--	--	--	--	1	1	
R16.23	STA. 478+90 LT	J3-1	24 x 57	ROUTE ASSEMBLY	--	--	--	--	--	--	1	2	
R16.24	STA. 479+10 RT	R1-1	36 x 36	STOP	--	--	--	--	--	--	1	1	
R16.25	STA. 479+40 RT	R5-1	30 x 30	DO NOT ENTER	--	--	--	--	--	--	1	1	
R16.26	STA. 480+80 RT	J4-2	48 x 36	ROUTE ASSEMBLY	--	--	--	--	--	--	1	1	
R16.27	STA. 482+00 RT	S3-1	36 x 36	SCHOOL BUS STOP AHEAD	--	--	--	--	--	--	1	1	
R16.28	STA. 482+45 LT	R1-1	30 x 30	STOP	--	--	--	--	--	--	1	1	
R16.30	STA. 483+30 RT	D2-1	72 x 15	JEFFERSON 2	--	--	--	--	--	--	1	2	MOVE SIGN LOCATION TO STA. 485+00 RT
R16.31	STA. 484+40 LT	D1-3	90 x 36	MADISON/LAKE MILLS/FT. ATKINSON	--	--	--	--	--	--	1	2	
16.01	STA. 455+90 LT	R5-1	30 x 30	DO NO ENTER	1	--	--	--	6.25	--	--	--	
16.02	STA. 456+10 LT	R1-1	36 x 36	STOP	1	--	--	--	7.46	--	--	--	
16.03	STA. 456+70 LT	R1-1	36 x 36	STOP	1	--	--	--	7.46	--	--	--	
16.04	STA. 456+70 LT	W12-1D	24 x 24	DOUBLE DIAGONAL ARROW	1	--	--	--	--	4.00	--	--	
16.05	STA. 456+70 LT	R4-7	24 x 30	KEEP RIGHT SYMBOL	1	--	--	--	5.00	--	--	--	
16.06	STA. 456+70 RT	J3-2	48 x 57	ROUTE ASSEMBLY	--	--	1	--	19.00	--	--	--	
16.09	STA. 457+20 RT	W1-7	48 x 24	TWO DIRECTION LARGE ARROW	1	--	--	--	--	8.00	--	--	SIGN LOCATION MOVED FROM STA. 457+75 RT

CONTINUES ON NEXT SHEET

CONTINUED FROM PREVIOUS SHEET

					634.0616	634.0618	634.0620	634.0622	637.2210	637.2230	638.2602	638.3000		
					POSTS WOOD	POSTS WOOD	POSTS WOOD	POSTS WOOD	SIGNS	SIGNS	REMOVING	REMOVING		
					4X6-INCH	4X6-INCH	4X6-INCH	4X6-INCH	TYPE II	TYPE II	SIGNS	SMALL SIGN		
SIGN	APPROX.	SIGN	SIGN		X 16-FT	X 18-FT	X 20-FT	X 22-FT	REFLECTIVE H	REFLECTIVE F	TYPE II	SUPPORTS		
NUMBER	LOCATION	CODE	W x H	MESSAGE	EACH	EACH	EACH	EACH	SF	SF	EACH	EACH	REMARKS	
16.10	STA. 457+80 LT	J3-2	48 x 57	ROUTE ASSEMBLY	--	--	1	--	19.00	--	--	--		
16.11	STA. 459+90 RT	J4-3	72 x 36	ROUTE ASSEMBLY	1	1	--	--	18.00	--	--	--		
16.13	STA. 464+40 LT	D1-2	72 x 30	CAMBRIDGE/LAKE MILLS W/ARROWS	1	1	--	--	15.00	--	--	--		
16.14	STA. 468+15 RT	J2-3	72 x 57	ROUTE ASSEMBLY	--	--	1	1	28.50	--	--	--		
16.15	STA. 468+35 LT	J2-3	72 x 57	ROUTE ASSEMBLY	--	--	1	1	28.50	--	--	--		
16.17	STA. 471+10 RT	D1-2	90 x 30	JEFFERSON/FT. ATKINSON W/ARROWS	1	1	--	--	18.75	--	--	--		
16.18	STA. 475+80 LT	J4-3	72 x 36	ROUTE ASSEMBLY	1	1	--	--	18.00	--	--	--		
16.19	STA. 477+80 RT	J3-1	24 x 57	ROUTE ASSEMBLY	--	--	1	--	9.50	--	--	--		
16.20	STA. 478+70 LT	W1-7	48 x 24	TWO DIRECTION LARGE ARROW	1	--	--	--	--	8.00	--	--		
16.21	STA. 478+80 RT	R1-1	36 x 36	STOP	1	--	--	--	7.46	--	--	--		
16.22	STA. 478+80 RT	W12-1D	24 x 24	DOUBLE DIAGONAL ARROW	1	--	--	--	--	4.00	--	--		
16.23	STA. 478+90 LT	J3-1	24 x 57	ROUTE ASSEMBLY	--	--	1	--	9.50	--	--	--		
16.24	STA. 479+10 RT	R1-1	36 x 36	STOP	1	--	--	--	7.46	--	--	--		
16.25	STA. 479+40 RT	R5-1	30 x 30	DO NO ENTER	1	--	--	--	6.25	--	--	--		
16.26	STA. 480+80 RT	J4-2	48 x 36	ROUTE ASSEMBLY	1	--	--	--	12.00	--	--	--		
16.27	STA. 482+00 RT	S3-1	36 x 36	SCHOOL BUS STOP AHEAD	1	--	--	--	9.00	--	--	--		
16.28	STA. 482+45 LT	R1-1	30 x 30	STOP	1	--	--	--	5.18	--	--	--		
16.29	STA. 483+00 RT	R2-1	24 x 30	SPEED LIMIT 55 MPH	1	--	--	--	5.00	--	--	--		
16.30	STA. 485+00 RT	D2-1	72 x 15	JEFFERSON 2	1	1	--	--	7.50	--	--	--	SIGN LOCATION MOVED FROM STA. 483+30 RT	
16.31	STA. 484+40 LT	D1-3	90 x 36	CAMBRIDGE/LAKE MILLS/FT. ATKINSON	--	1	1	--	22.50	--	--	--		
R17.01	STA. 489+55 LT	J2-4	96 x 57	ROUTE ASSEMBLY	--	--	--	--	--	--	1	2	MOVE SIGN LOCATION TO STA. 487+50 LT	
R17.02	STA. 493+20 LT	J1-1	24 x 39	JCT 89	--	--	--	--	--	--	1	1	MOVE SIGN LOCATION TO STA. 491+00 LT	
R17.03	STA. 494+30 RT	W3-5	36 x 36	REDUCED SPEED AHEAD (45 MPH)	--	--	--	--	--	--	1	1		
R17.04	STA. 495+30 LT	W14-3	48 x 36	NO PASSING ZONE	--	--	--	--	--	--	1	1		
R17.05	STA. 496+10 LT	W6-3	36 x 36	TWO-WAY TRAFFIC	--	--	--	--	--	--	1	1	MOVE SIGN LOCATION TO STA. 500+00 LT	
R17.06	STA. 496+70 RT	W6-1	36 x 36	DIVIDED HIGHWAY	--	--	--	--	--	--	1	1		
17.01	STA. 487+50 LT	J2-4	96 x 57	ROUTE ASSEMBLY	--	--	1	1	38.00	--	--	--	SIGN LOCATION MOVED FROM STA. 489+55 LT	
17.02	STA. 491+00 LT	J1-1	24 x 39	JCT 89	--	1	--	--	6.50	--	--	--	SIGN LOCATION MOVED FROM STA. 493+20 LT	
17.03	STA. 494+30 RT	W3-5	36 x 36	REDUCED SPEED AHEAD (45 MPH)	1	--	--	--	--	9.00	--	--		
17.04	STA. 495+30 LT	W14-3	48 x 36	NO PASSING ZONE	1	--	--	--	--	6.00	--	--		
17.05	STA. 500+00 LT	W6-3	36 x 36	TWO-WAY TRAFFIC	1	--	--	--	--	9.00	--	--	SIGN LOCATION MOVED FROM STA. 496+10 LT	
17.06	STA. 496+70 RT	W6-1	36 x 36	DIVIDED HIGHWAY	1	--	--	--	--	9.00	--	--		
TOTAL:					80	25	9	4	720.83	189.75	108	121		

EROSION CONTROL						
STATION	TO	STATION	LOCATION	628.1504	628.7504	628.7555
				SILT FENCE LF	TEMPORARY DITCH CHECKS LF	CULVERT PIPE CHECKS EACH
5+90	-	497+04	USH 18, UNDISTRIBUTED	500	160	4
TOTAL:				500	160	4

TRAFFIC CONTROL						
STATION	TO	STATION	LOCATION	643.0100	643.0900	643.1050
				PROJECT EACH	SIGNS DAY	PCMS DAY
5+90	-	497+04	USH 18	1	2,880	40
TOTAL:				1	2,880	40

PAVEMENT MARKING SAME DAY						
STATION	TO	STATION	LOCATION	LF	649.0403	649.0403
					TEMPORARY EPOXY 4-INCH YELLOW	TEMPORARY EPOXY 4-INCH YELLOW
5+90	-	100+00	USH 18	9,410	13,510	687.5
100+00	-	200+00	USH 18	10,000	8,950	2100
200+00	-	300+00	USH 18	10,000	3,950	2425
300+00	-	400+00	USH 18	10,000	4,300	2500
400+00	-	497+04	USH 18	9,704	8,012	1687.5
SUBTOTAL:					38,722	9,400
TOTAL:					48,122	

648.0100 LOCATING NO-PASSING ZONES				
STATION	TO	STATION	LOCATION	MI
5+90	-	497+04	USH 18	9.3
TOTAL:				9.3

PAVEMENT MARKING EPOXY 4-INCH								
STATION	TO	STATION	LOCATION	LF	646.2304.S	646.0106	646.0106	646.0106
					GROOVED WET REFLECTIVE WHITE	YELLOW	YELLOW	YELLOW
5+90	-	100+00	USH 18	9,410	18,320	162.5	13,510	687.5
100+00	-	200+00	USH 18	10,000	20,000	80	8,950	2,100
200+00	-	300+00	USH 18	10,000	20,000	62.5	3,950	2,425
300+00	-	400+00	USH 18	10,000	20,000	40	4,300	2,500
400+00	-	497+04	USH 18	9,704	19,408	75	8,012	1,688
SUBTOTAL:					97,728	420	38,722	9,400
TOTAL:					98,148		48,122	

650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE				
STATION	TO	STATION	LOCATION	LF
5+90	-	497+04	USH 18	49,115
TOTAL:				49,115

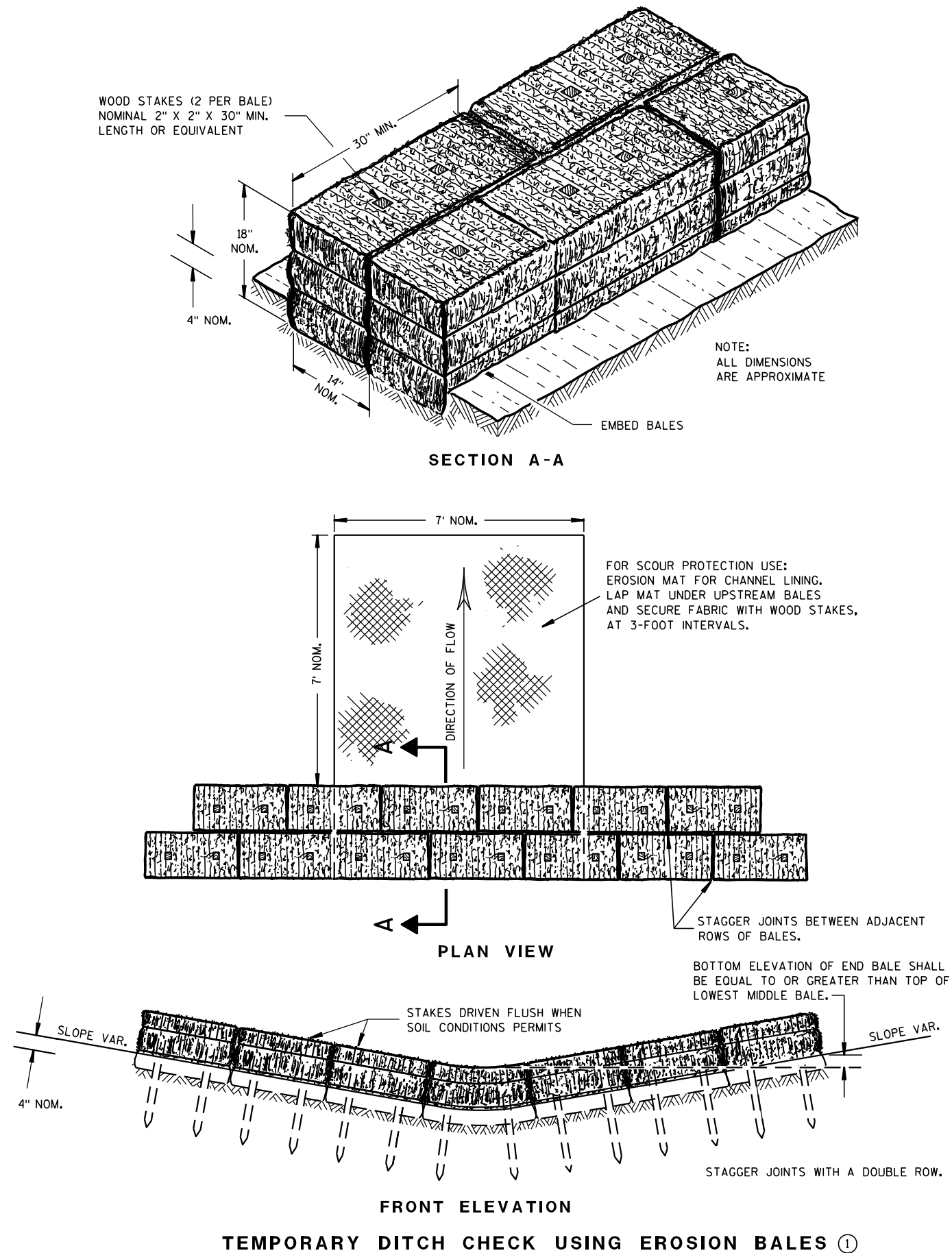
PAVEMENT MARKING									
STATION	TO	STATION	LOCATION	646.0126	647.0166	647.0356	647.0566	647.0766	647.0763
				EPOXY 8-INCH LF	ARROWS EPOXY TYPE 2 EACH	WORDS EPOXY EACH	STOP LINE EPOXY 18-INCH LF	CROSSWALK EPOXY 6-INCH LF	CROSSWALK EPOXY 12-INCH LF
9+10	-	9+20	USH 18	-	-	-	-	160	150
26+00	-	30+50	USH 18, EB RIGHT TURN LANE	450	2	2	-	-	-
66+00	-	-	PARK ROAD	-	-	-	20	-	-
160+00	-	161+00	CTH A	-	-	-	40	-	-
237+00	-	239+50	USH 18, EB RIGHT TURN LANE	250	2	2	-	-	-
351+00	-	352+00	CTH G	-	-	-	40	-	-
456+50	-	457+00	STH 89 SB	-	-	-	20	-	-
457+50	-	462+00	USH 18, WB RIGHT TURN LANE	450	-	-	-	-	-
473+50	-	478+00	USH 18, EB RIGHT TURN LANE	650	2	2	-	-	-
478+50	-	479+50	STH 89 NB	-	-	-	30	-	-
TOTAL:				1,800	6	6	150	160	150

690.0150 SAWING ASPHALT		
STATION	LOCATION	LF
5+90	USH 18, BEGIN PROJECT	30
497+04	USH 18, END PROJECT	30
-	INTERSECTIONS	504
TOTAL:		564

SPV.0060.01 01. LANDMARK REFERENCE MONUMENTS SPECIAL		
STATION	OFFSET	EACH
244+46	25' LT	1
272+01	7' LT	1
299+51	3' RT	1
325+51	3' RT	1
351+62	13' LT	1
373+07	13' LT	1
399+26	7' LT	1
425+42	6' LT	1
451+35	13' LT	1
478+56	2' RT	1
TOTAL:		10

Standard Detail Drawing List

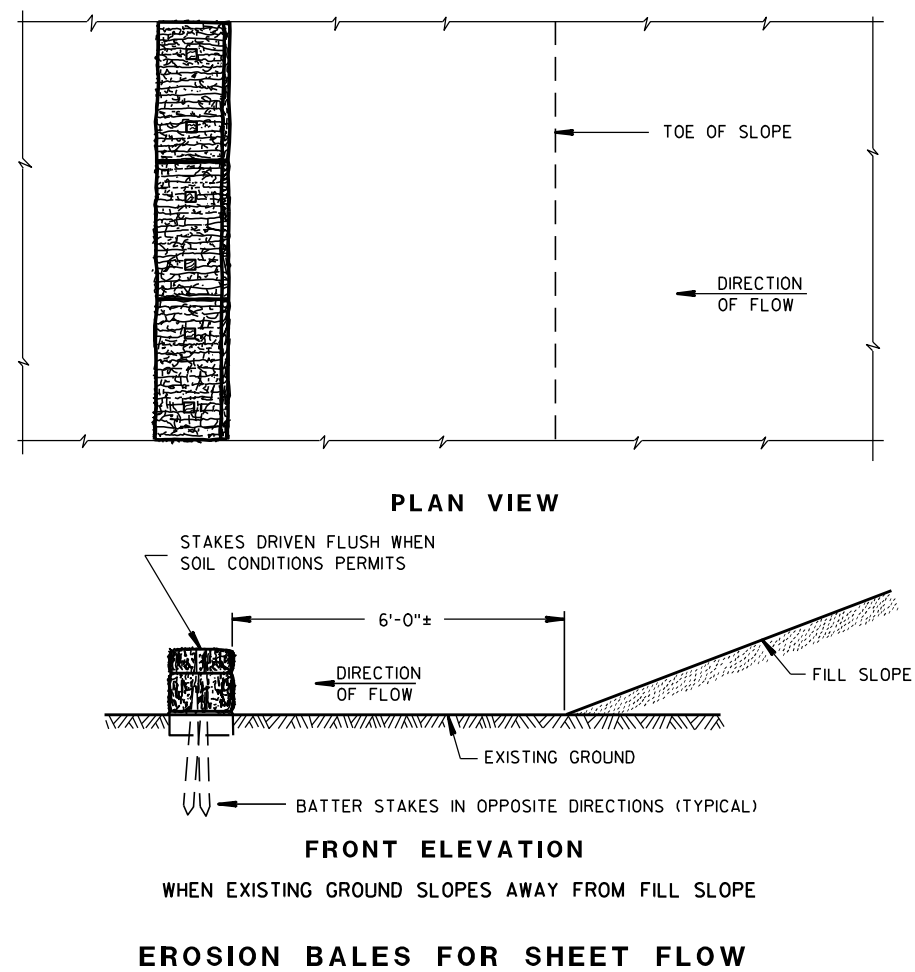
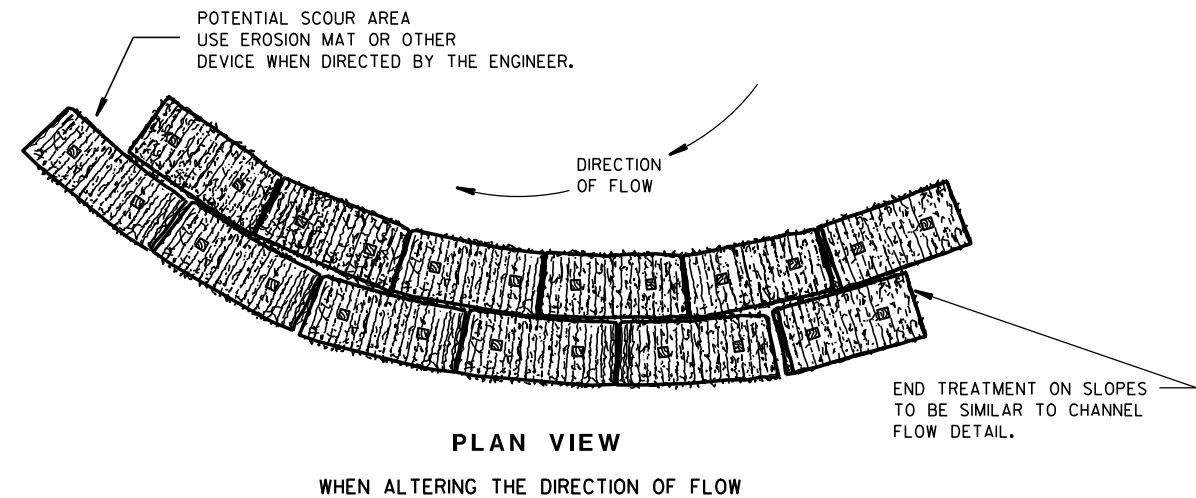
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B29-01	SAFETY EDGE
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-13B	PAVEMENT MARKING WORDS
15C07-13C	PAVEMENT MARKING ARROWS
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS



GENERAL NOTES

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

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

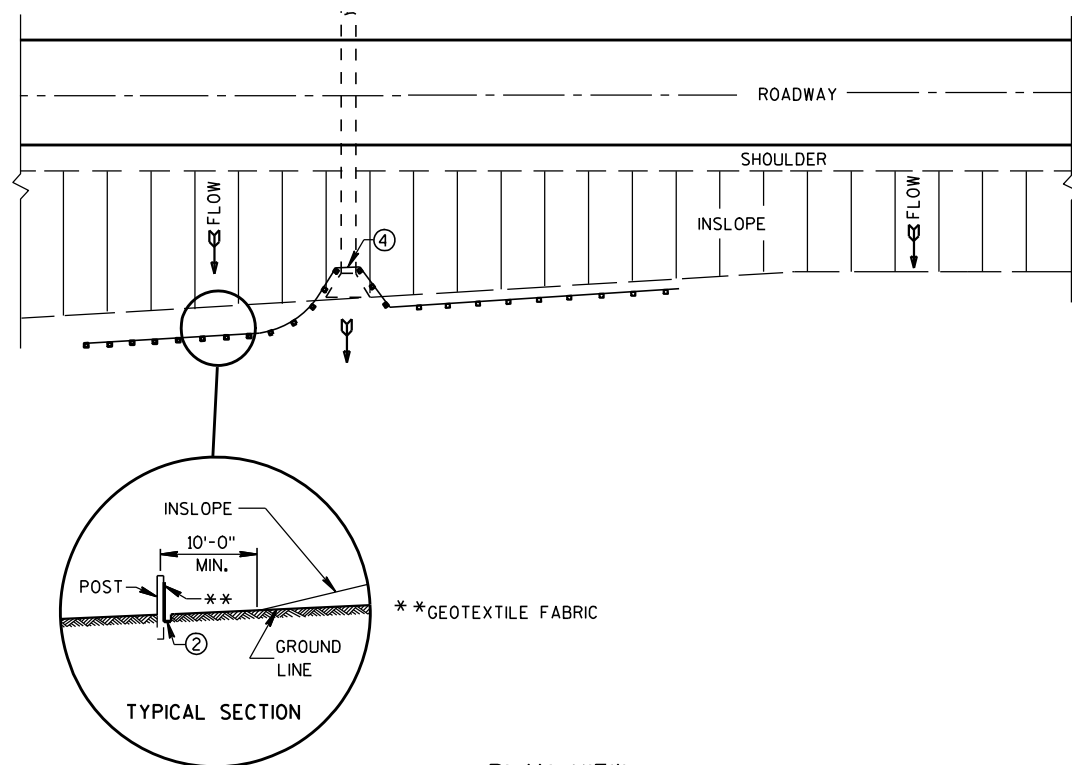
APPROVED

6/04/02
DATE

/S/ Beth Connors
CHIEF ROADWAY DEVELOPER

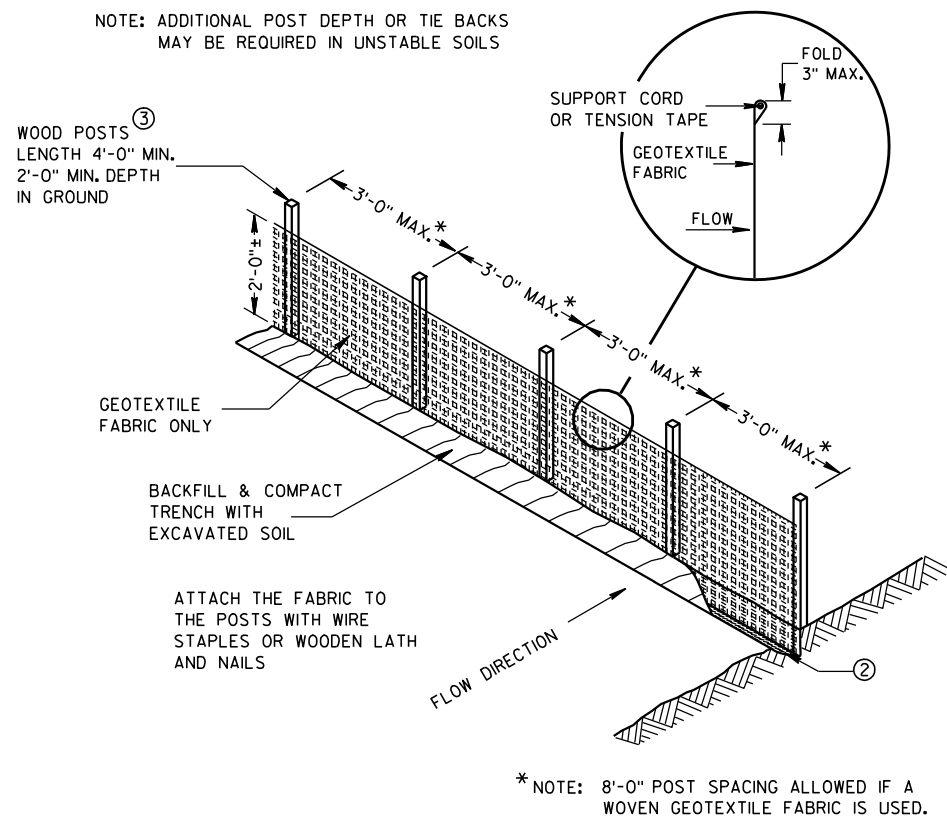
ENGINEER

FHWA

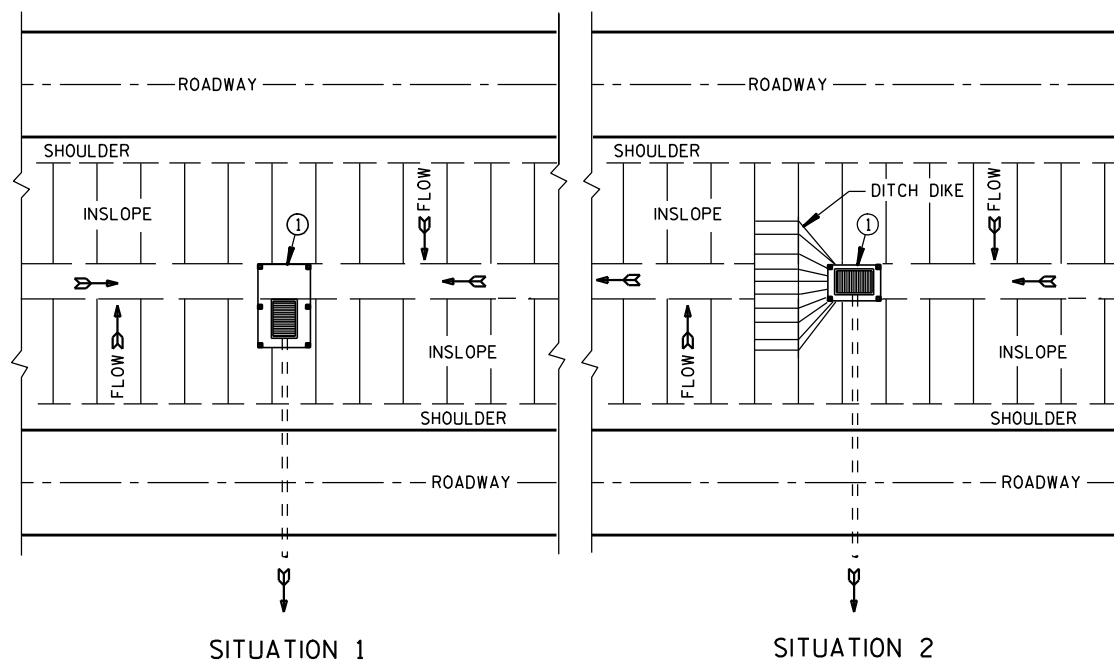


PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE

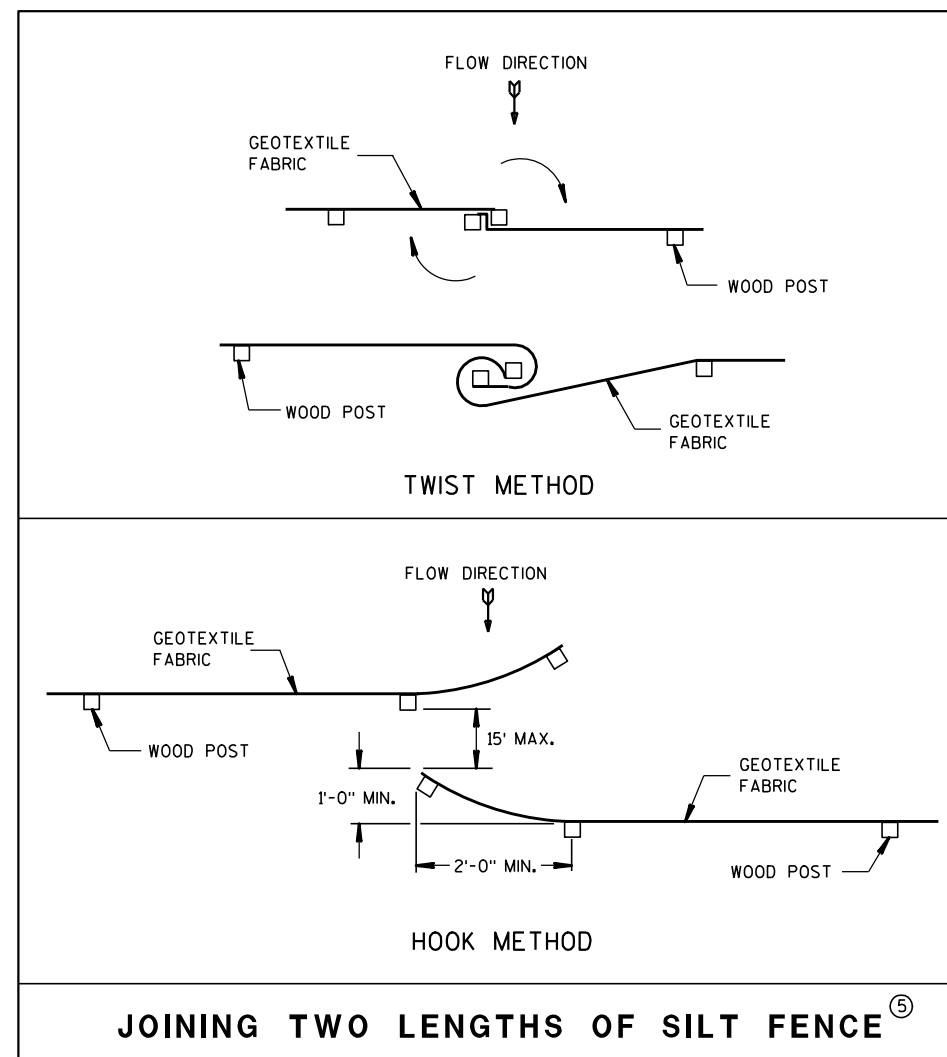
NOTE: ADDITIONAL POST DEPTH OR TIE BACKS
MAY BE REQUIRED IN UNSTABLE SOILS



SILT FENCE



PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

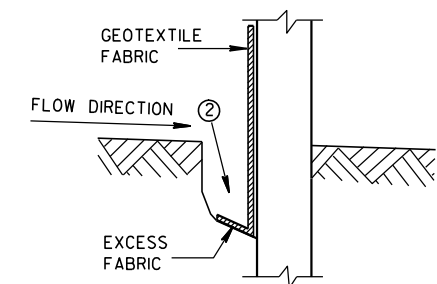


JOINING TWO LENGTHS OF SILT FENCE^⑤

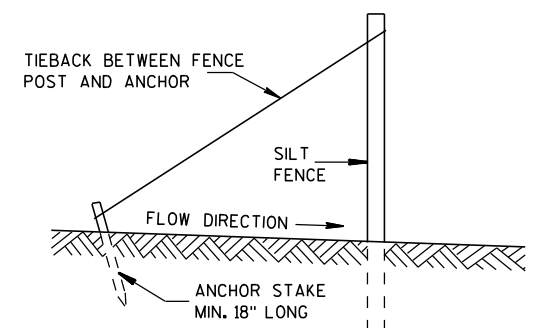
GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-29-05
DATE

FHWA

/S/ Beth Conn

CHIEF ROADWAY DEVELOPER

ENGINEER

GENERAL NOTES

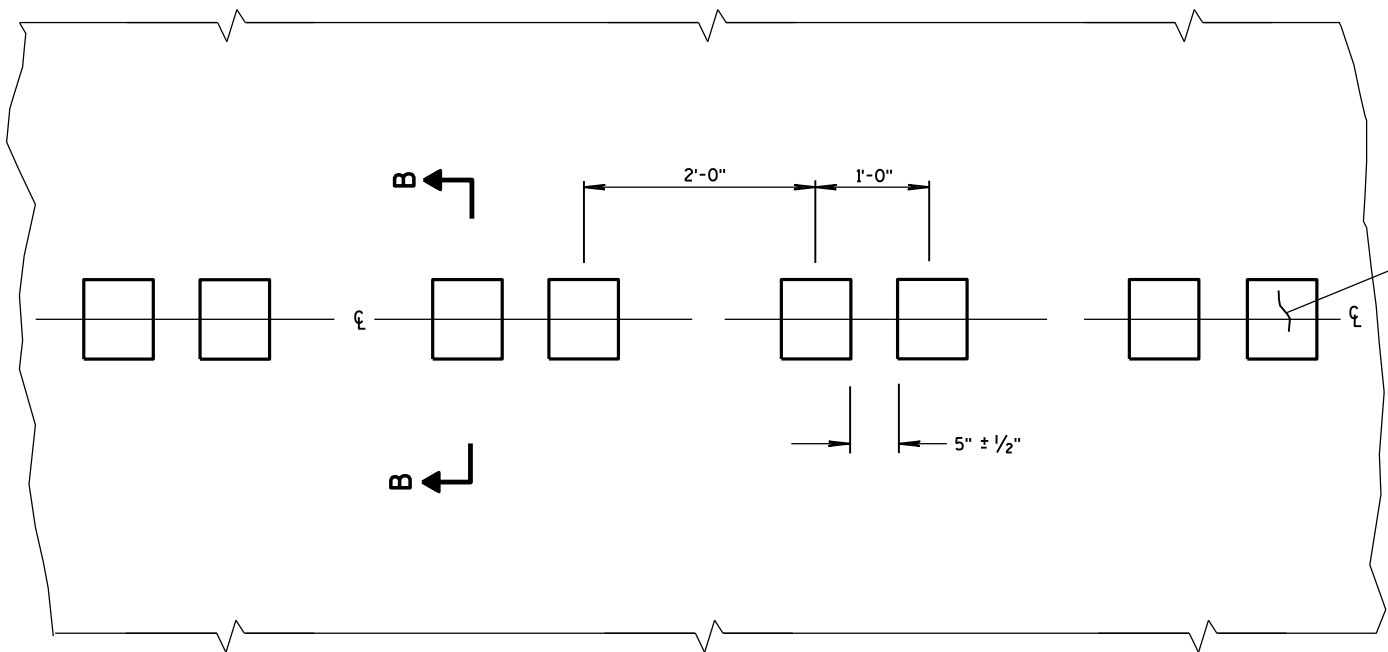
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

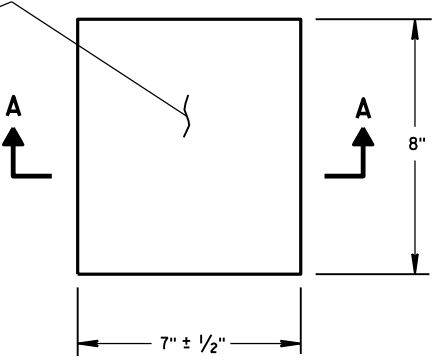
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

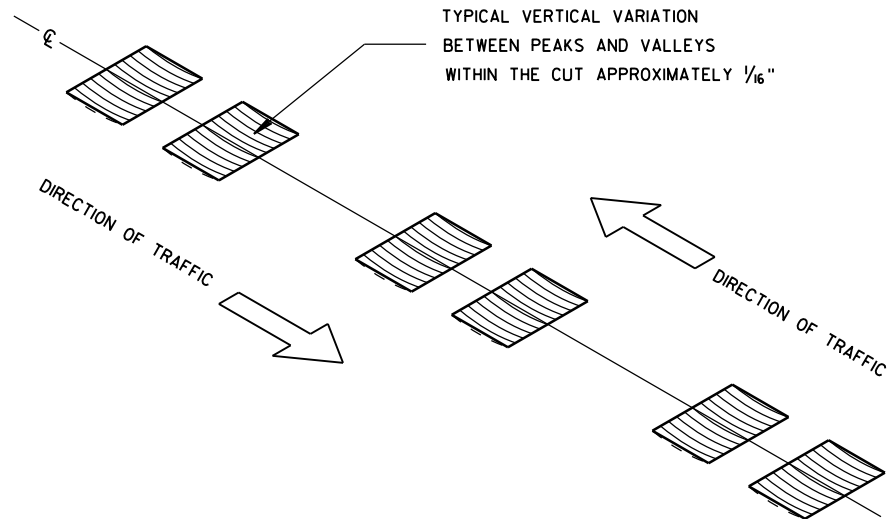
- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



PLAN VIEW
CENTER LINE WITH GROOVES

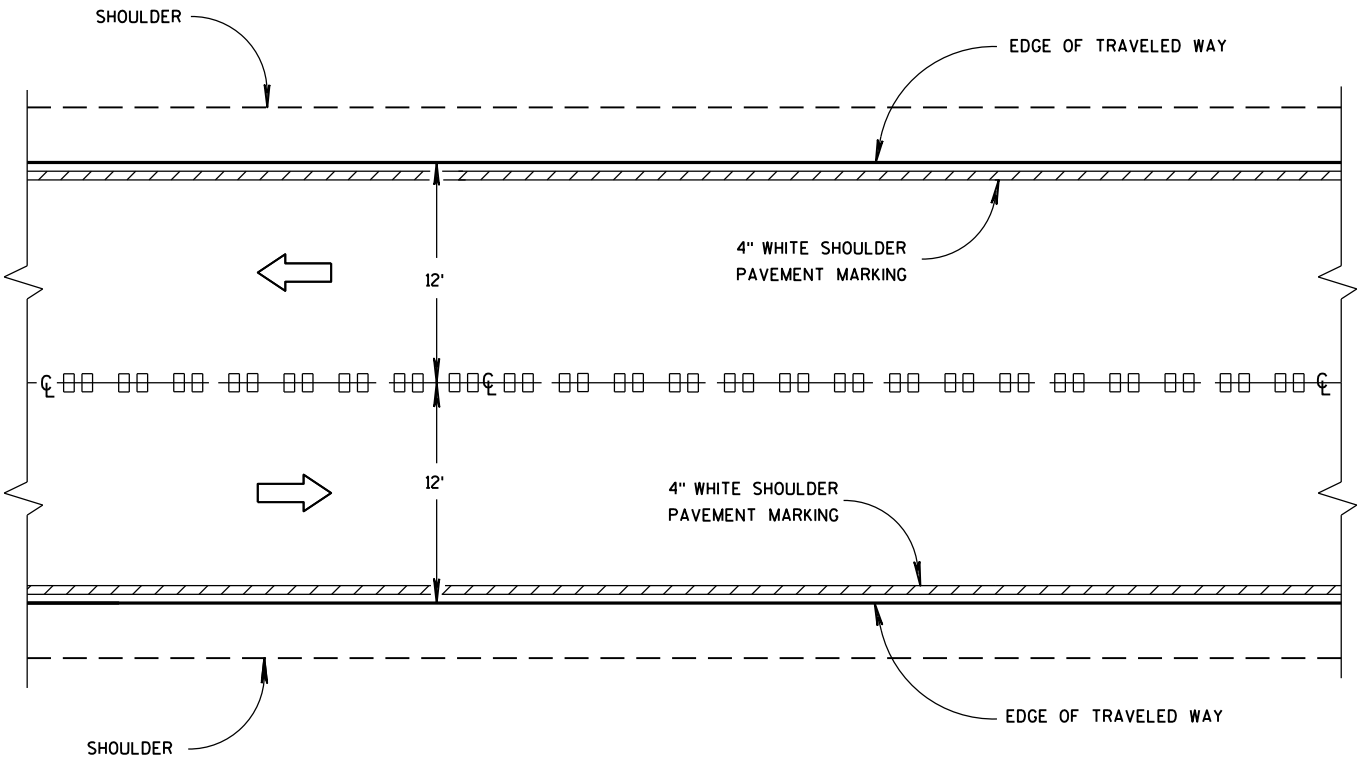


PLAN VIEW
(SINGLE GROOVE)

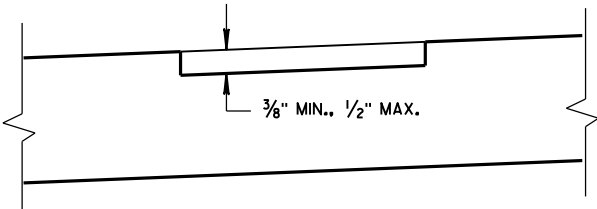


ISOMETRIC

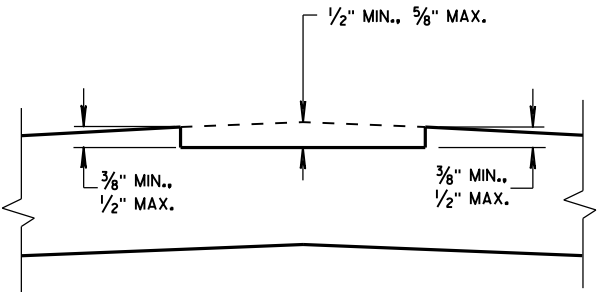
PLACEMENT DETAIL FOR MILLED RUMBLE STRIP



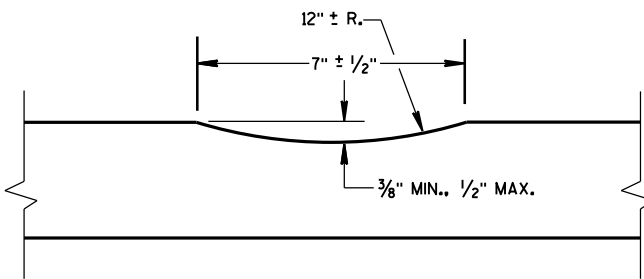
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



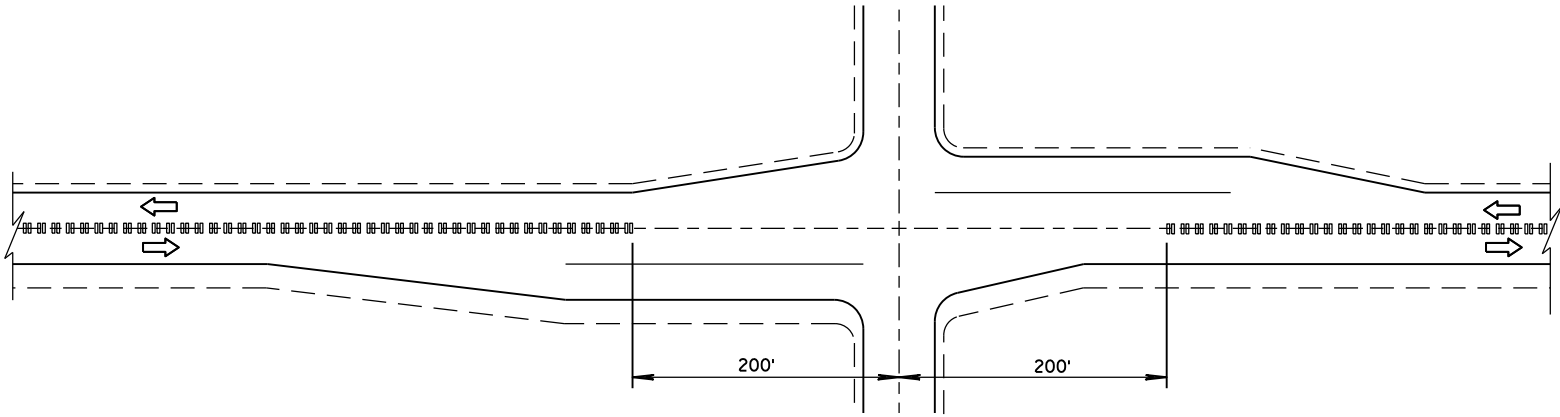
SECTION B-B
CROWNED ROADWAY



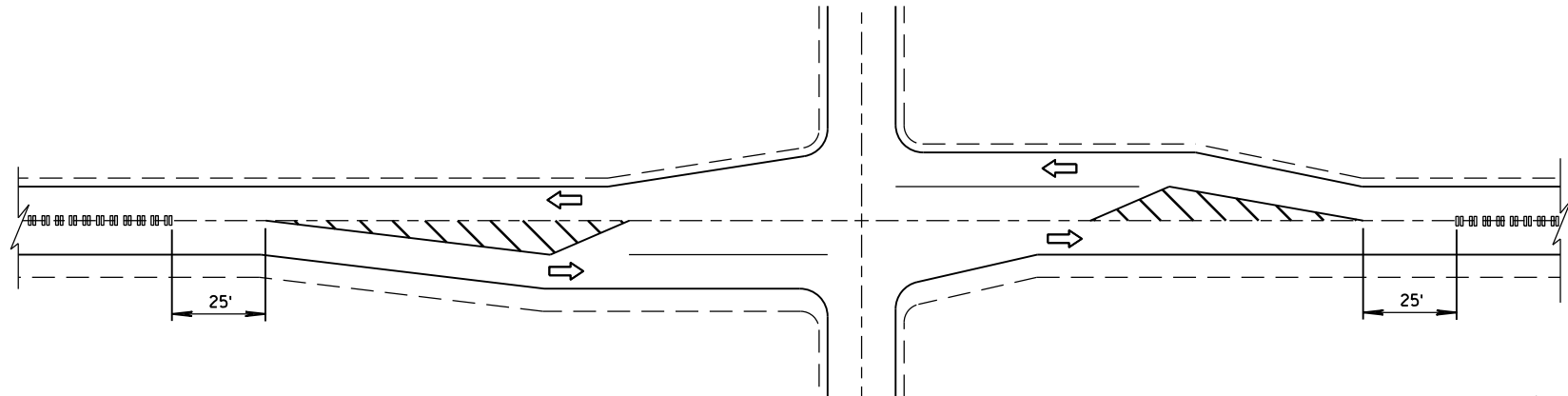
SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

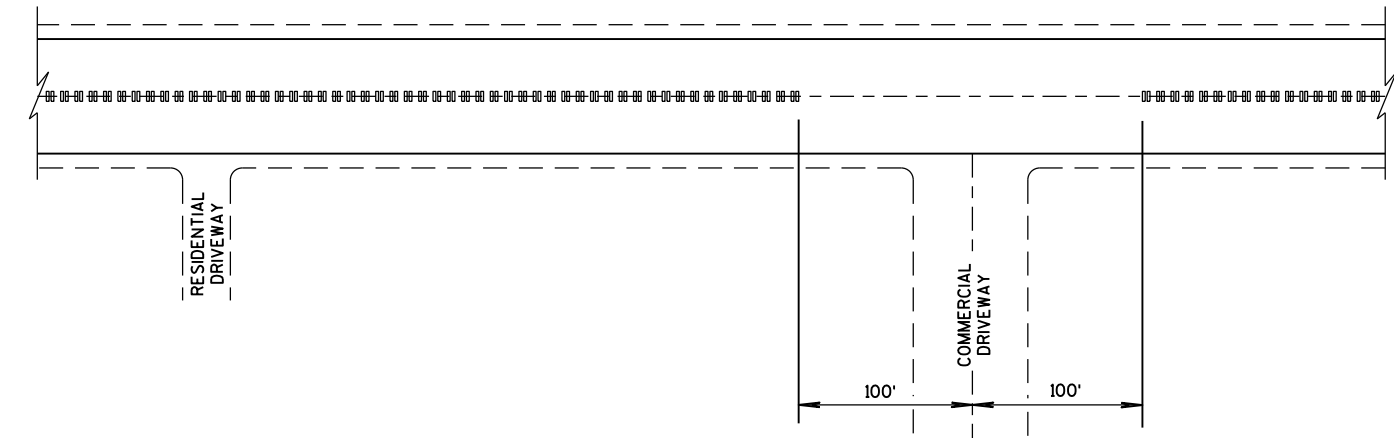
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTER LINE GROOVES AT INTERSECTIONS

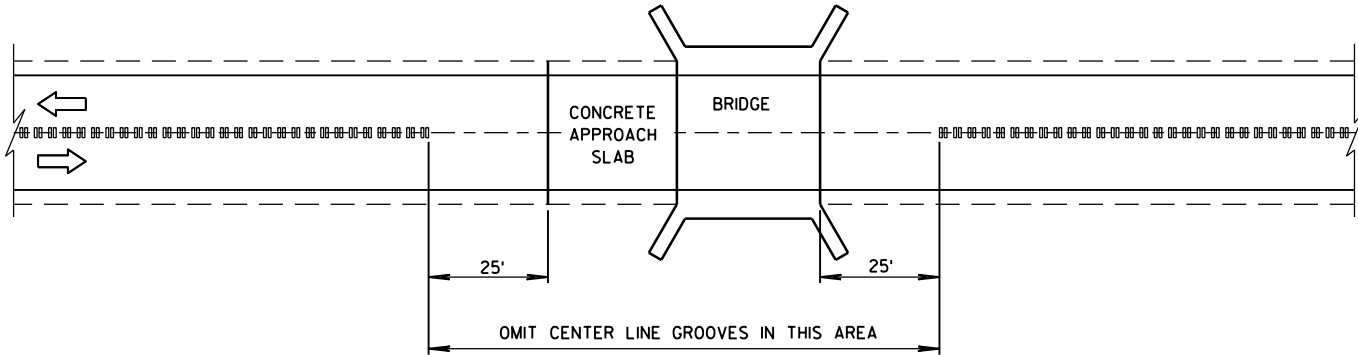


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

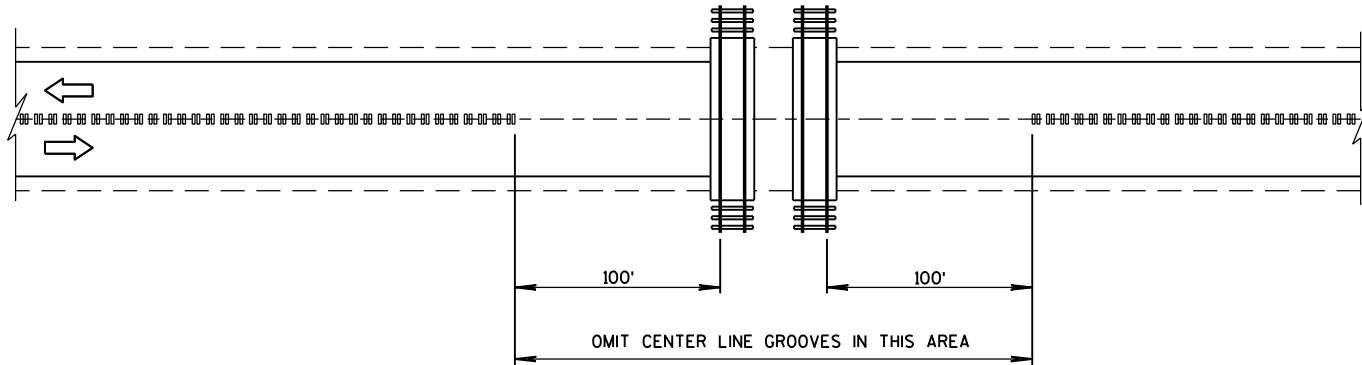


CENTER LINE GROOVES AT DRIVEWAYS^①

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

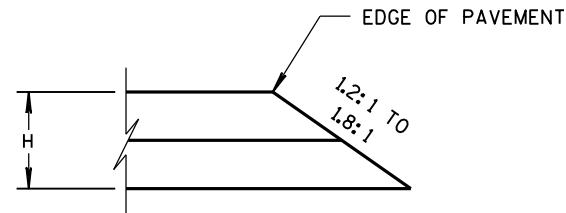


CENTER LINE GROOVES AT BRIDGES

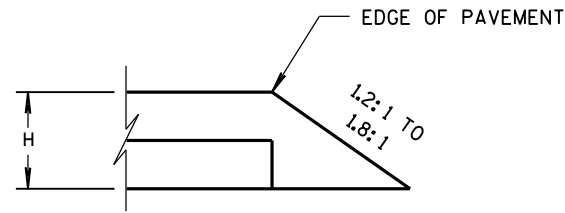


CENTER LINE GROOVES AT RAILROADS

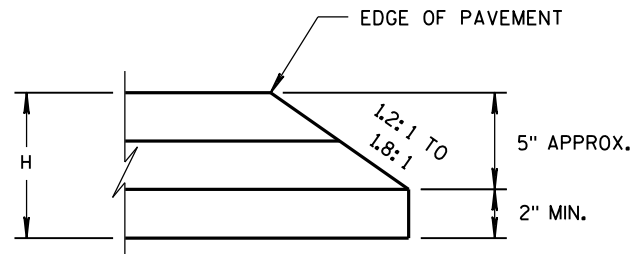
2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE 5/15/2013	/S/ Jerry H. Zoog ROADWAY STANDARDS ENGINEER 43 NT
FHWA	



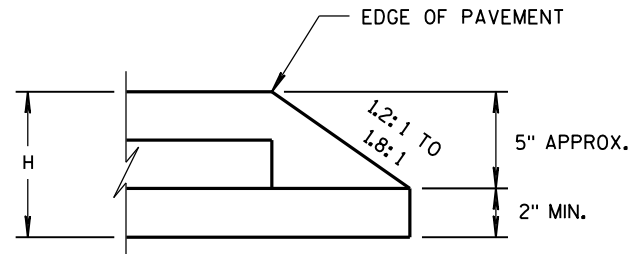
CONSTRUCTED WITH FINAL TWO LAYERS
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER
FOR H 5" OR LESS

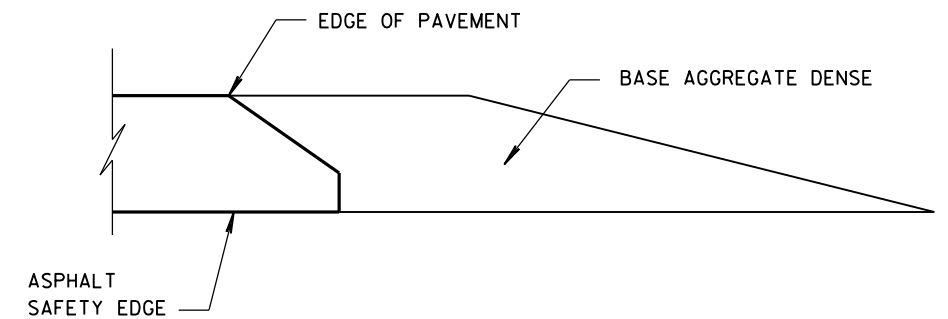


CONSTRUCTED WITH FINAL TWO LAYERS
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER
FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE_{SM}

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012

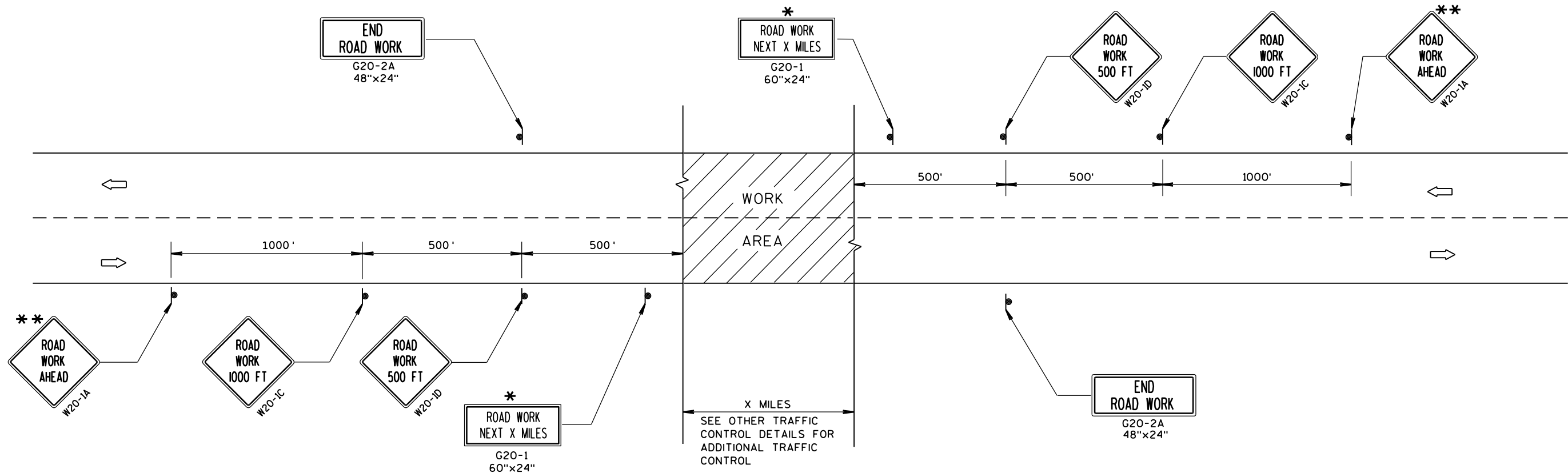
DATE

FHWA

/s/ Jerry H. Zoog
ROADWAY STANDARDS
ENGINEER

44

ENT



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

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

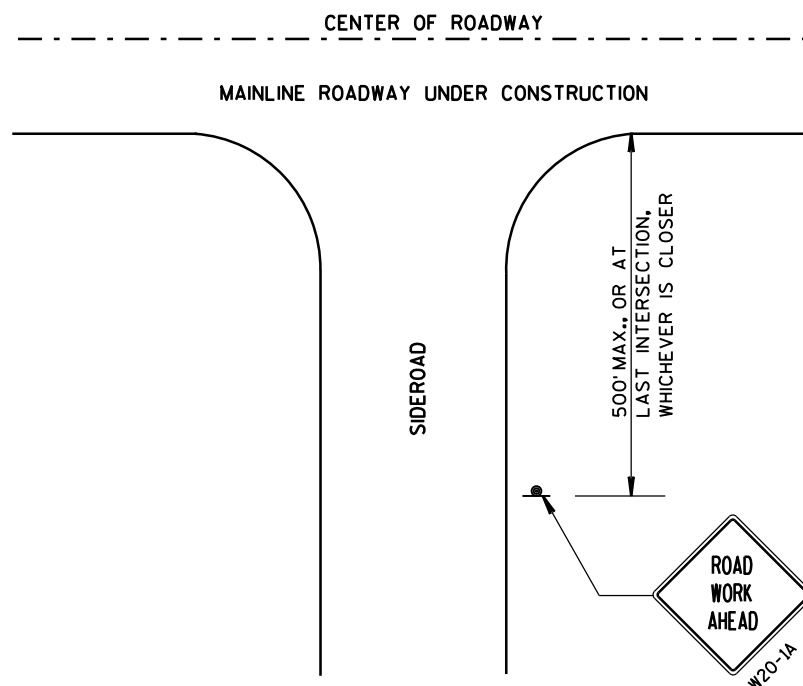
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

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



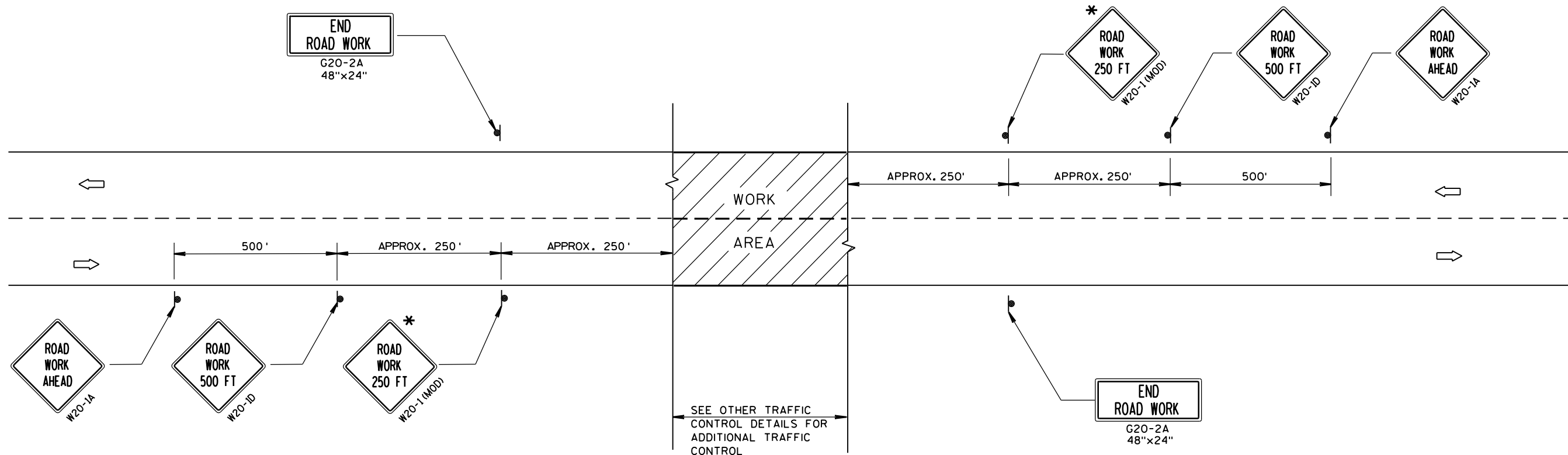
LEGEND

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE Sept. 2015 /S/ Peter Amokobe Atepe
DATE STATEWIDE WORK ZONE SAFETY ENGINEER 45 IC
FHWA



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

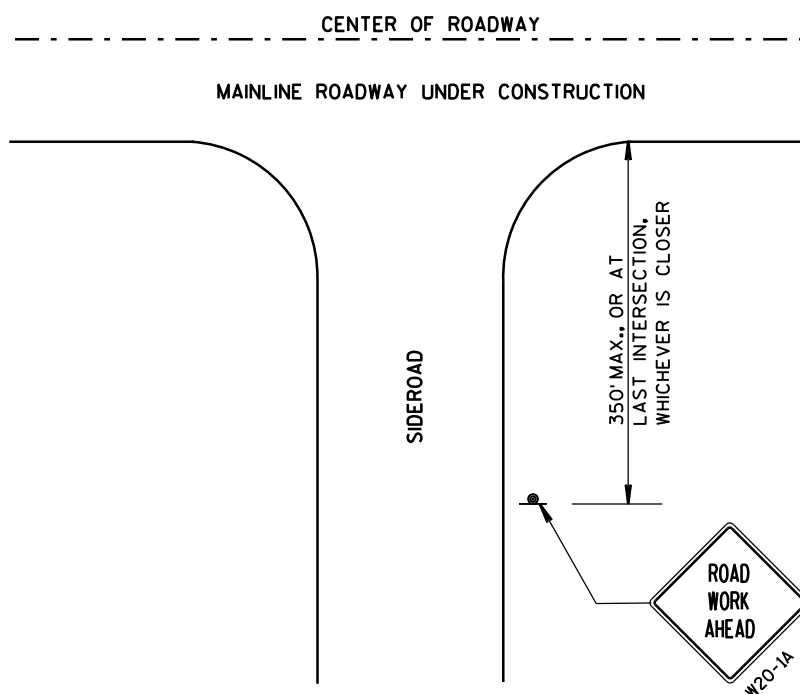
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

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

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

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

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

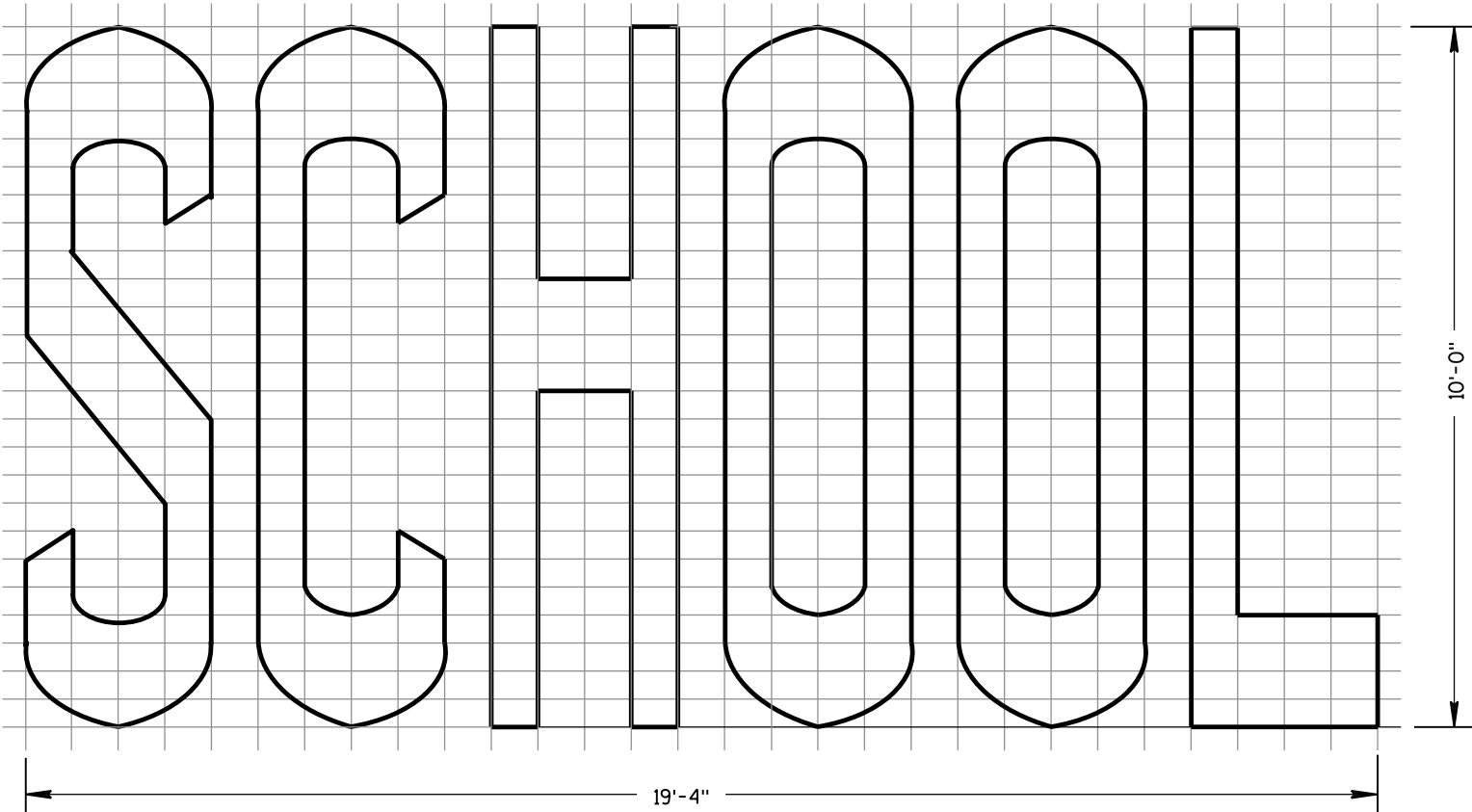
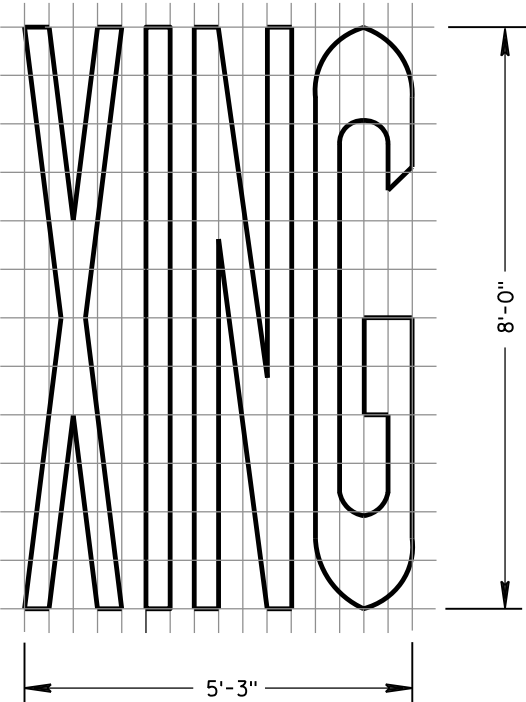
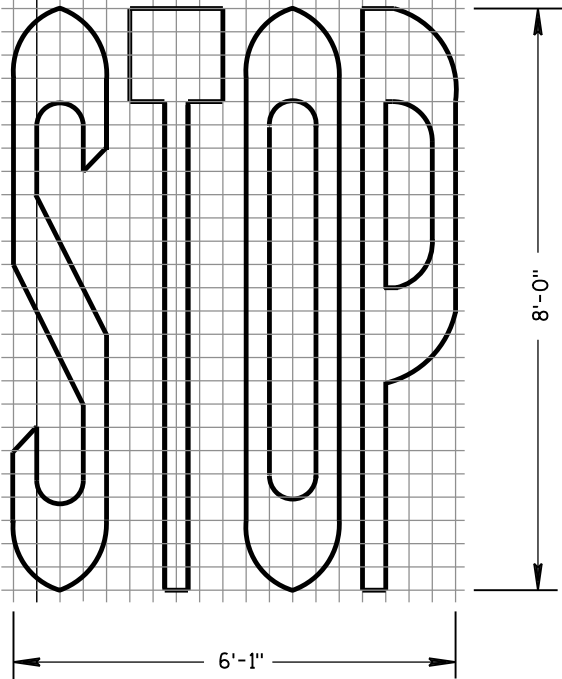
TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 40 M.P.H.
OR LESS TWO-WAY UNDIVIDED
ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

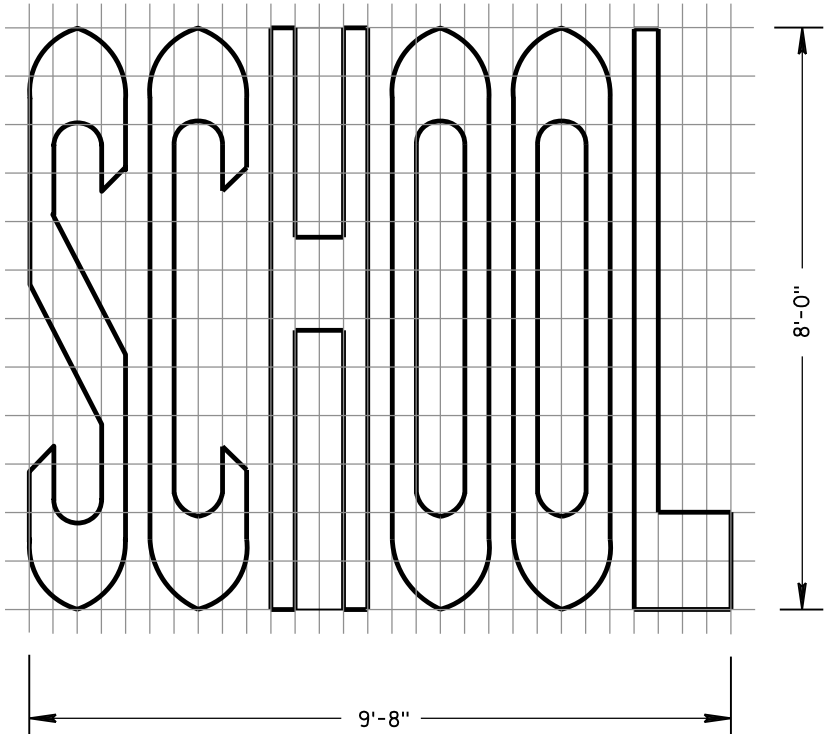
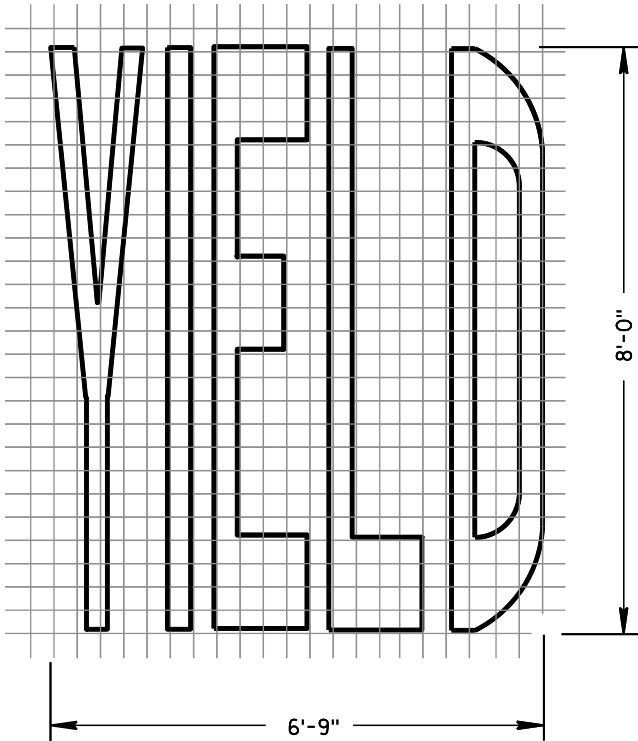
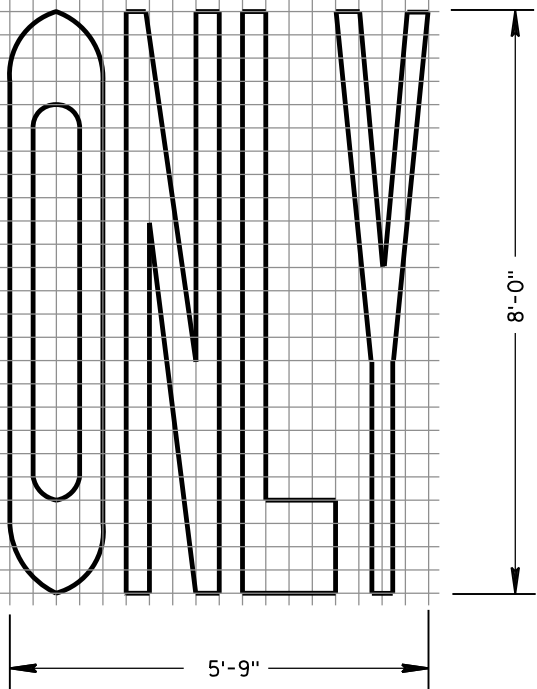
APPROVED	/S/ Peter Amakobe Atepe
DATE	STATEWIDE WORK ZOI 46
FHWA	SAFETY ENGIN

GENERAL NOTES

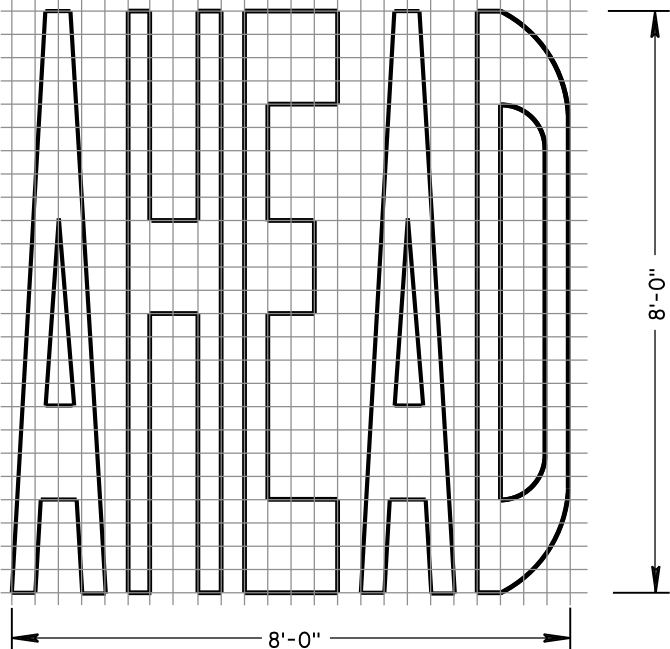
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



TWO-LANE



SINGLE-LANE



PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-16

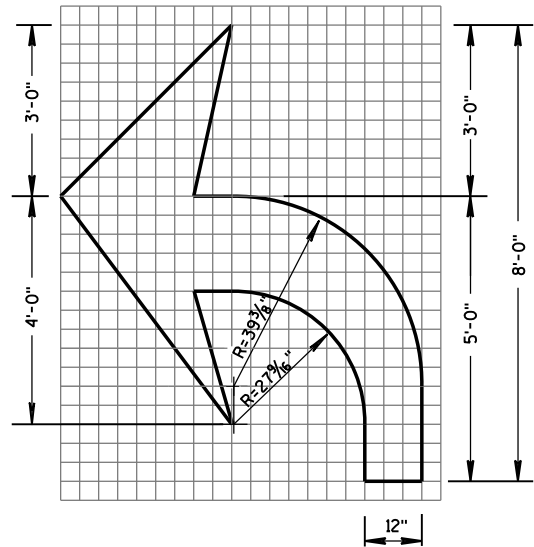
DATE

/S/ Matthew R. Rauch

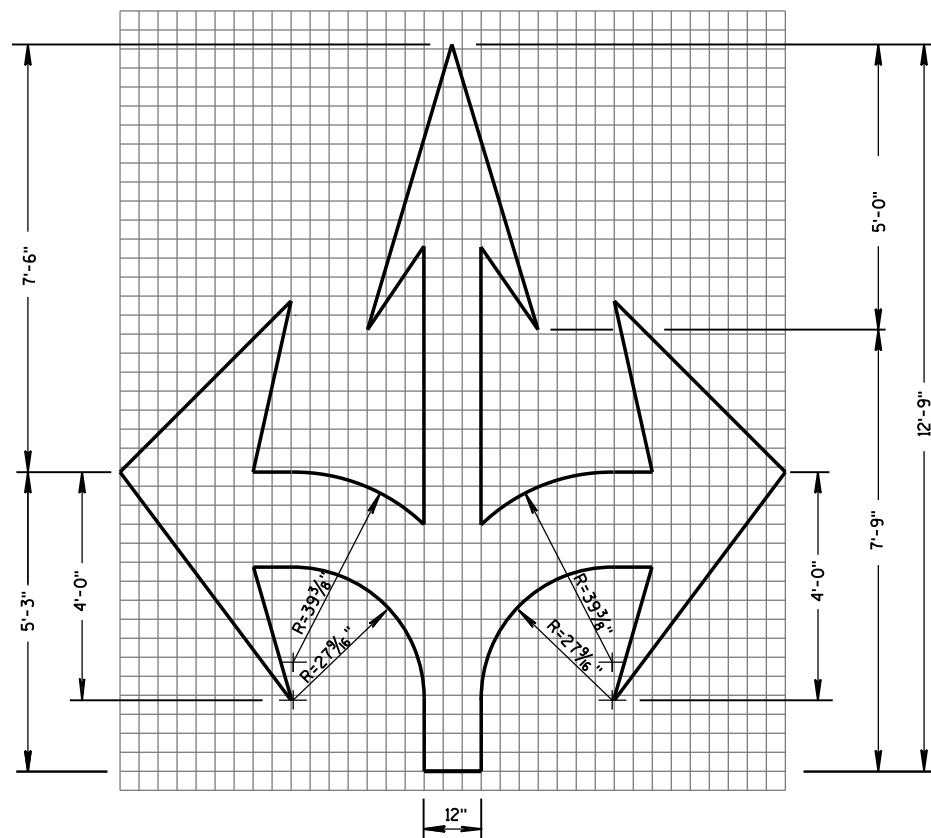
STATE SIGNING AND MARK 47

EER

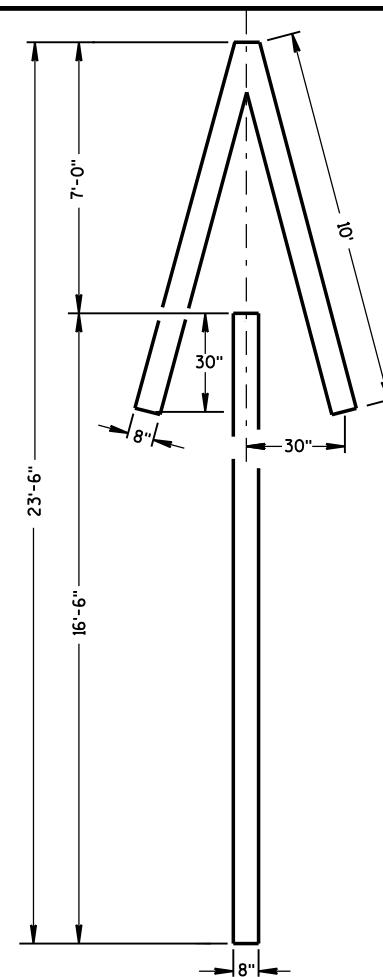
FHWA



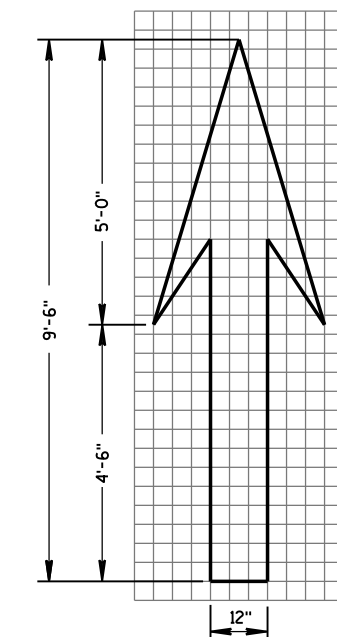
TYPE 2



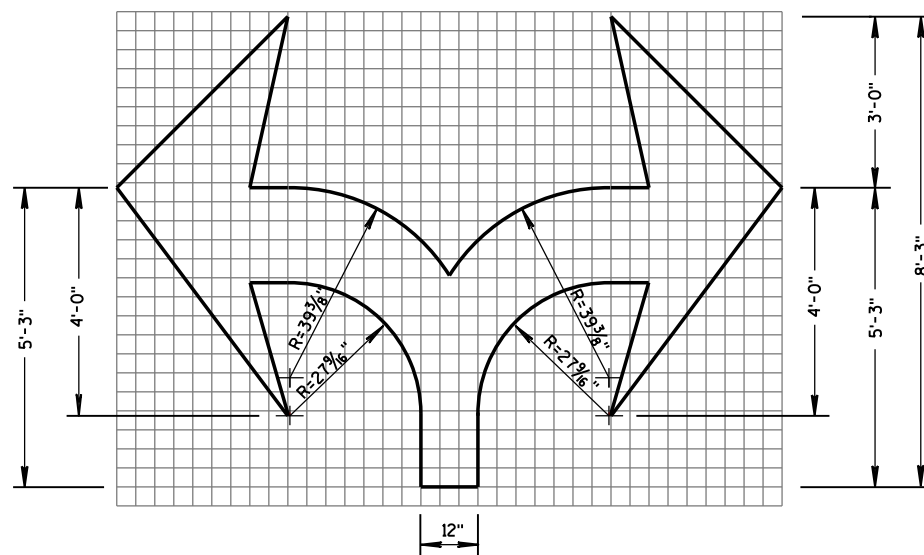
TYPE 6



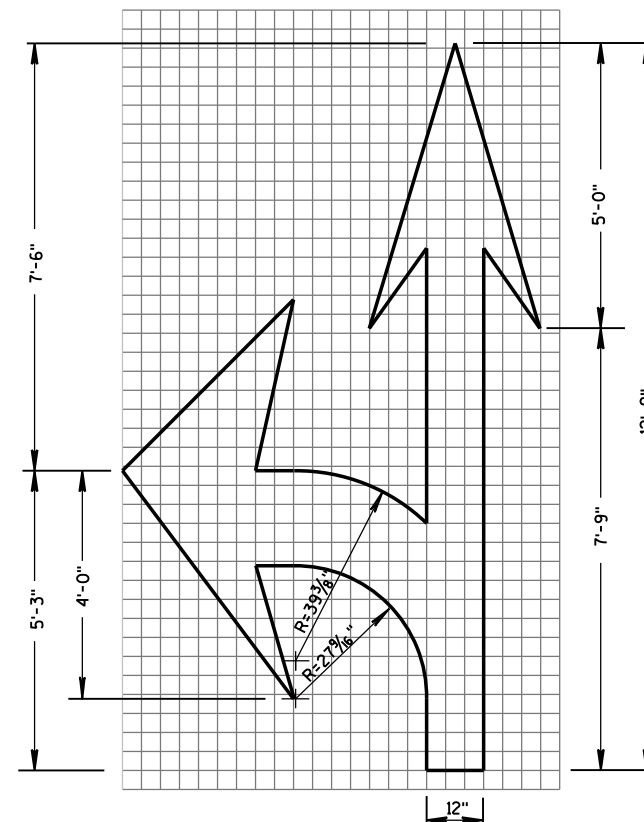
TYPE 4



TYPE 1



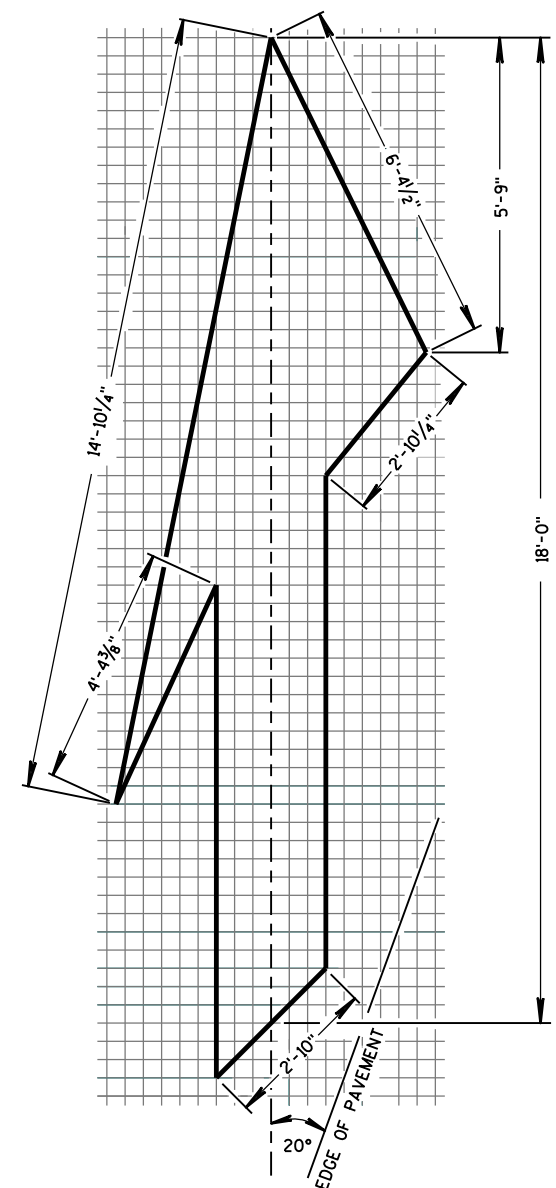
TYPE 7



TYPE 3

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.



TYPE 5 LANE DROP ARROW

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-16

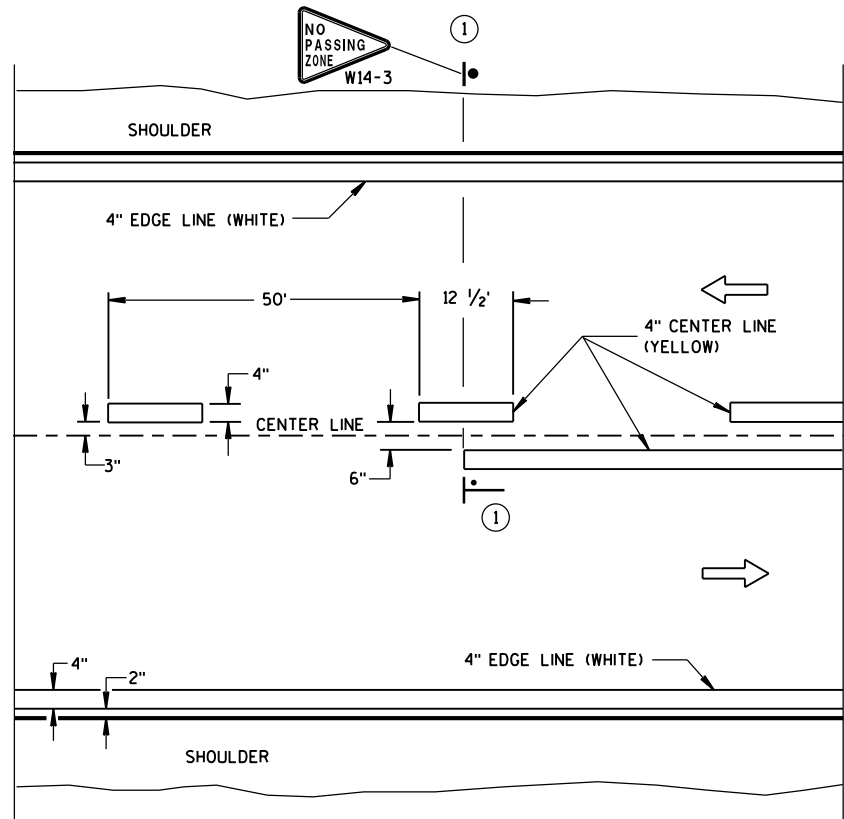
DATE

/S/ Matthew R. Rauch

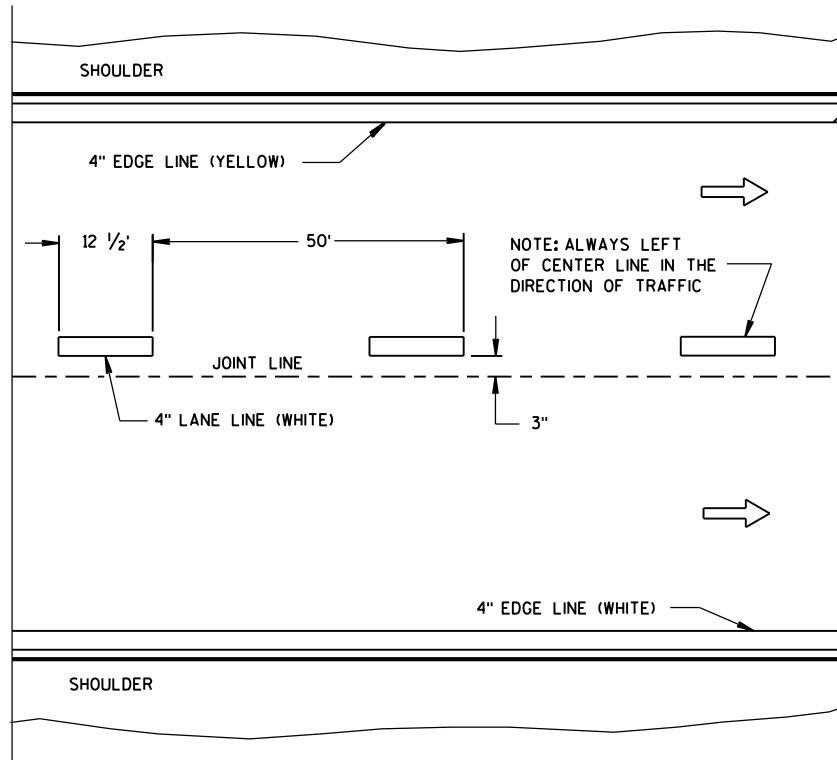
FHWA

STATE SIGNING AND MAR 48

VEER

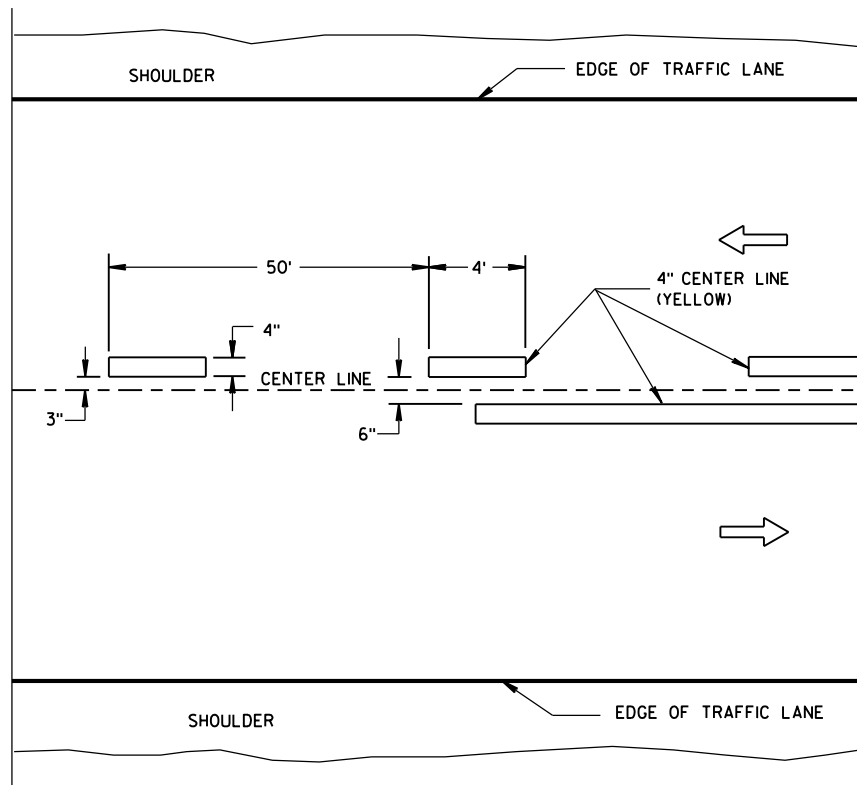


TWO WAY TRAFFIC

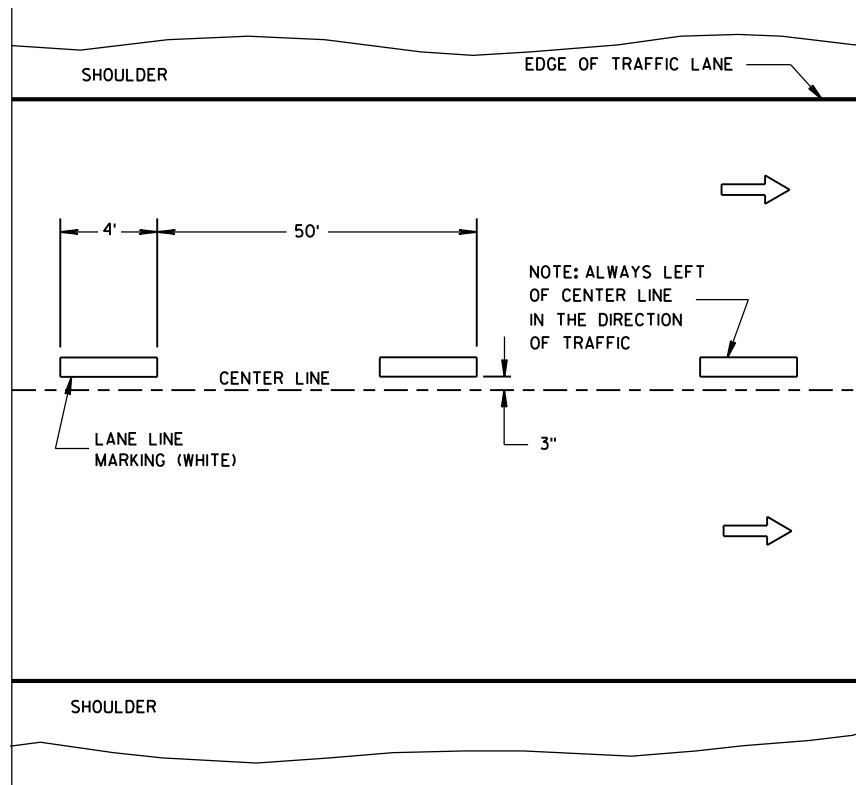


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

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

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

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

LEGEND

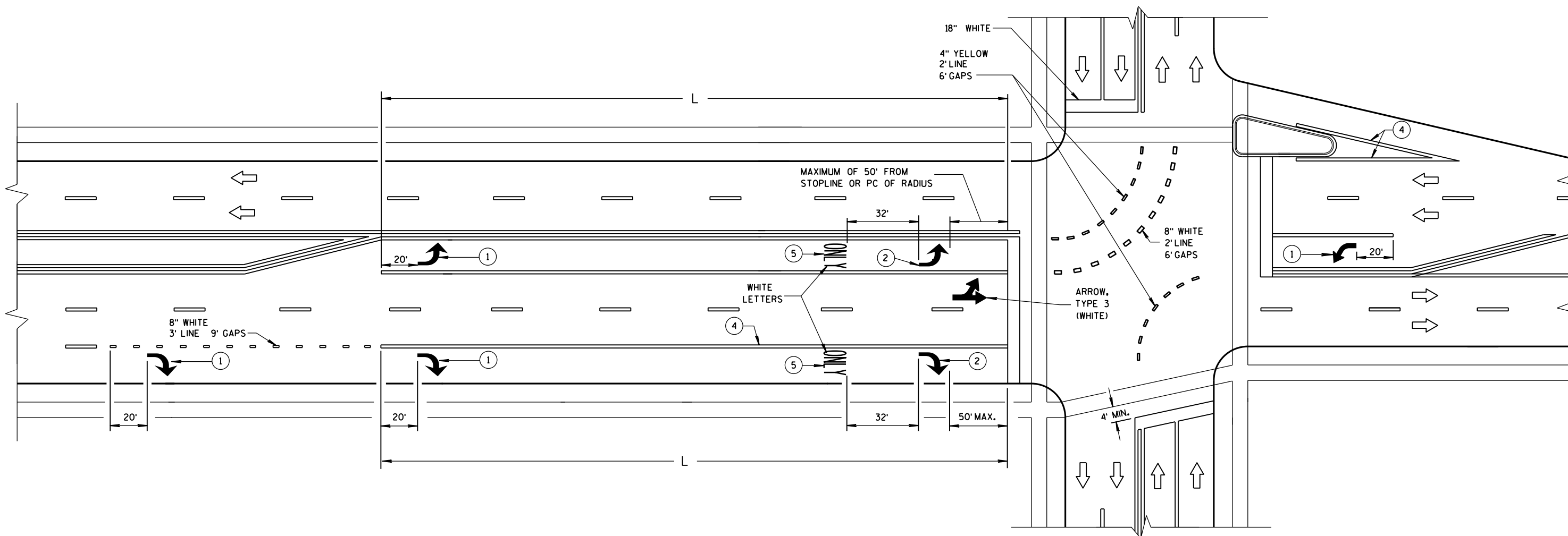
—●— "T" MARKING

● POST MOUNTED SIGN

LONGITUDINAL MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE Sept., 2016 /S/ Matthew R. Rauch
STATE SIGNING AND MAP 49 ENGINEER
FHWA



GENERAL NOTES

- ① REQUIRED ARROW, TYPE 2 (WHITE).
- ② REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.
- ③ A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ④ 8" WHITE
- ⑤ REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

TWO WAY LEFT TURN LANE

NOTE:
ARROW SYMBOL ()
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

PAVEMENT MARKING
(TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

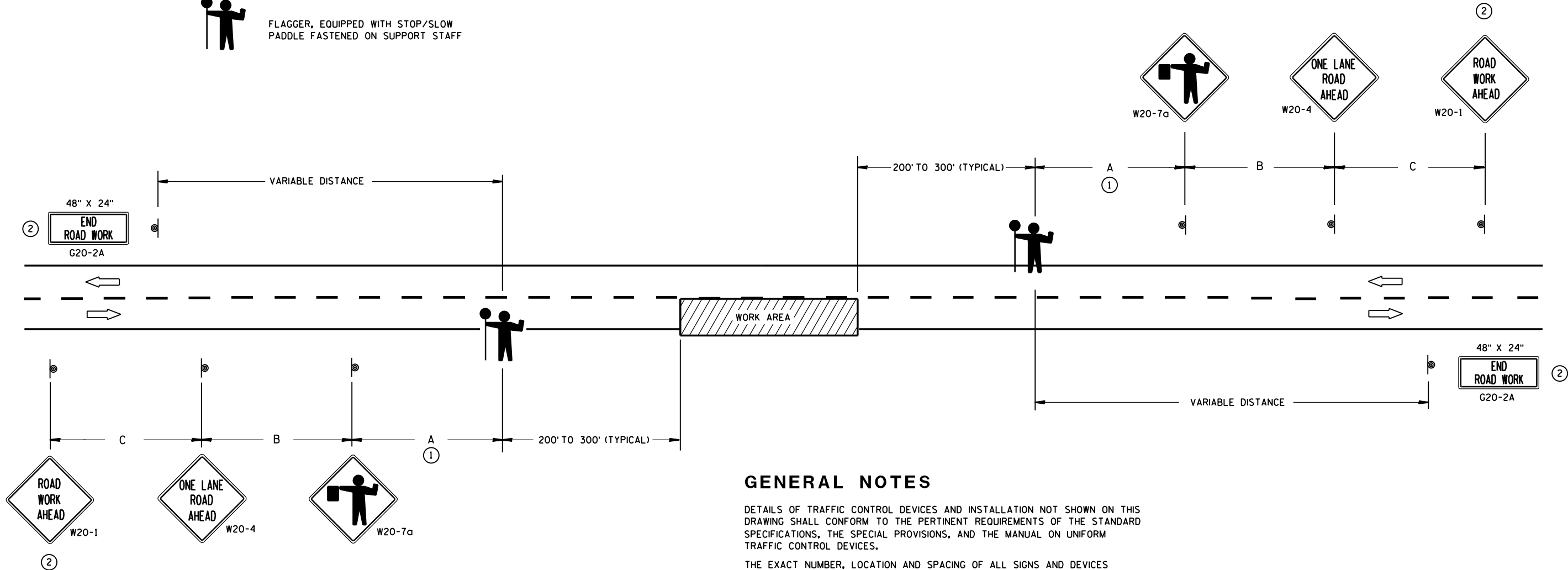
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 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, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

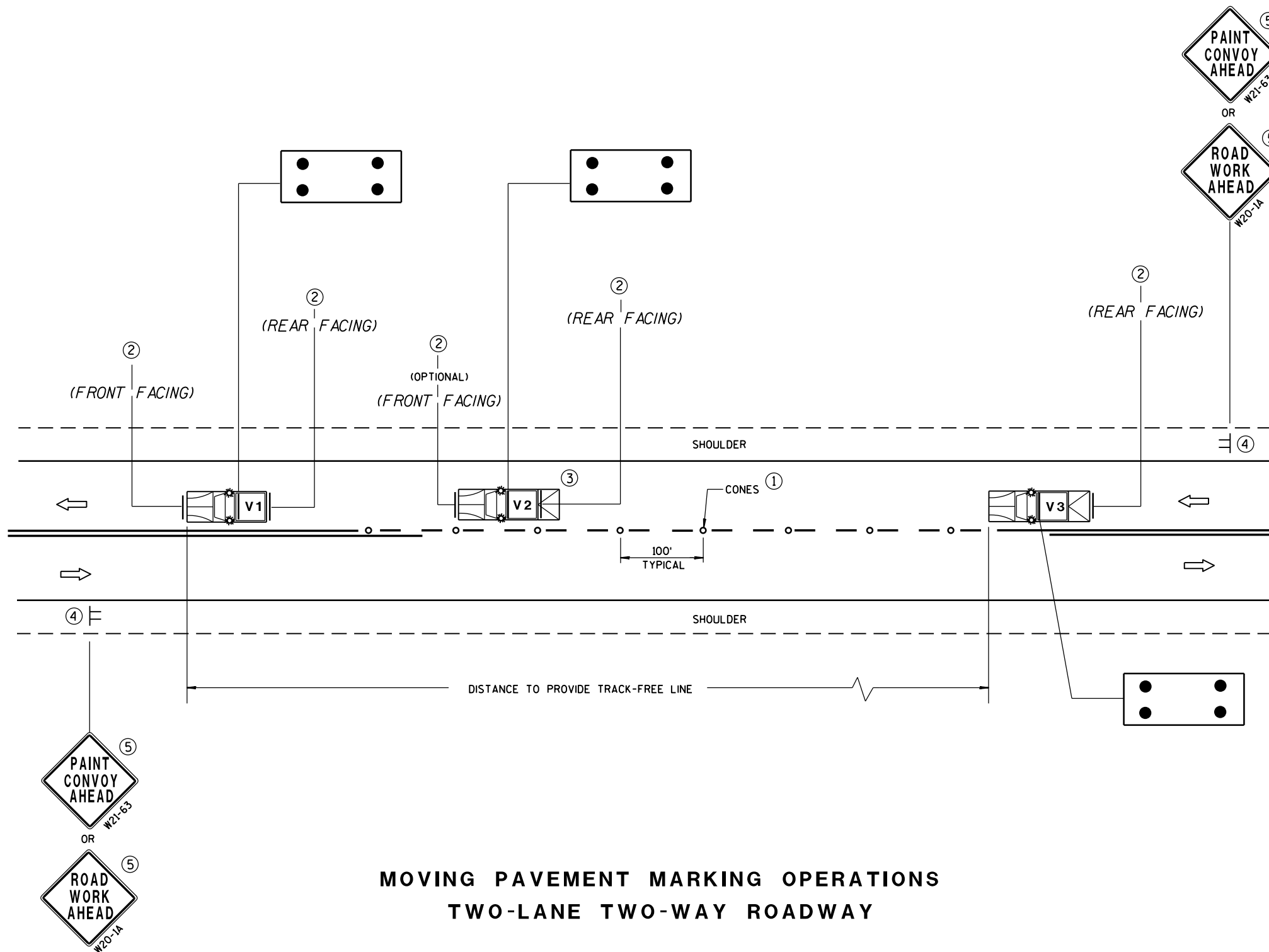
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- 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
8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINE 51 SIGN
FHWA



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

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

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

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

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

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

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

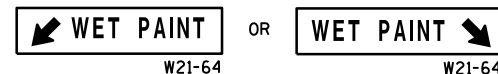
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

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

① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.



③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.

④ SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1 LEAD VEHICLE

V2 SHADOW VEHICLE

V3 TRAIL VEHICLE WITH TMA

TMA TRUCK-MOUNTED ATTENUATOR

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

CONES

FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING
OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016

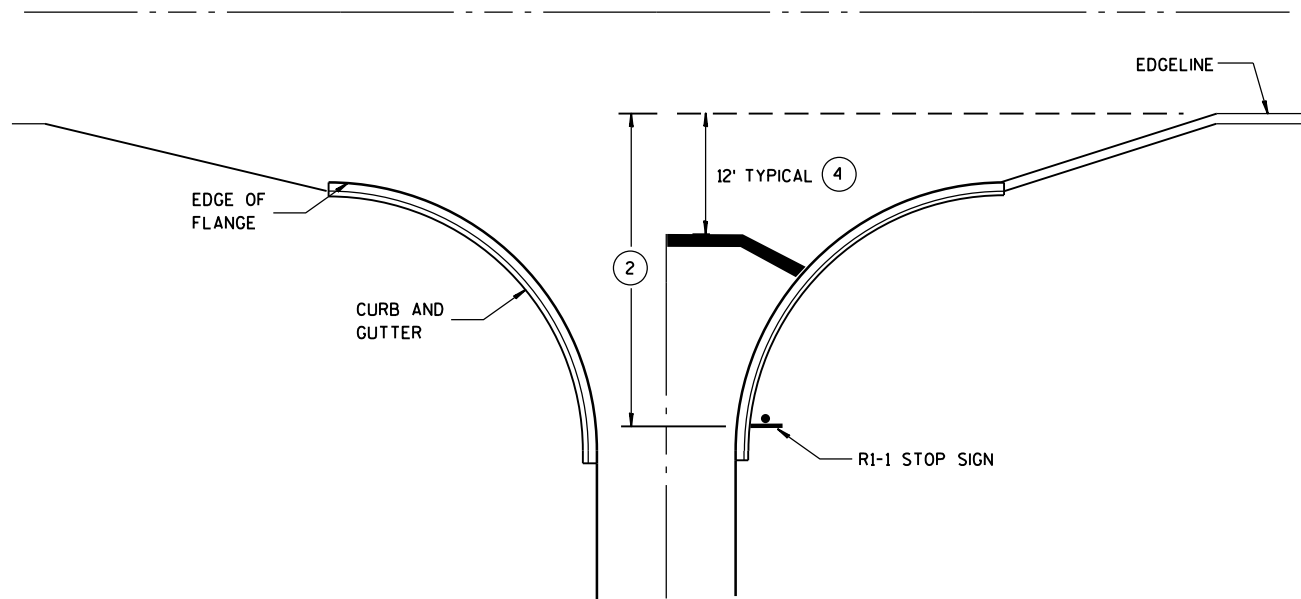
DATE

FHWA

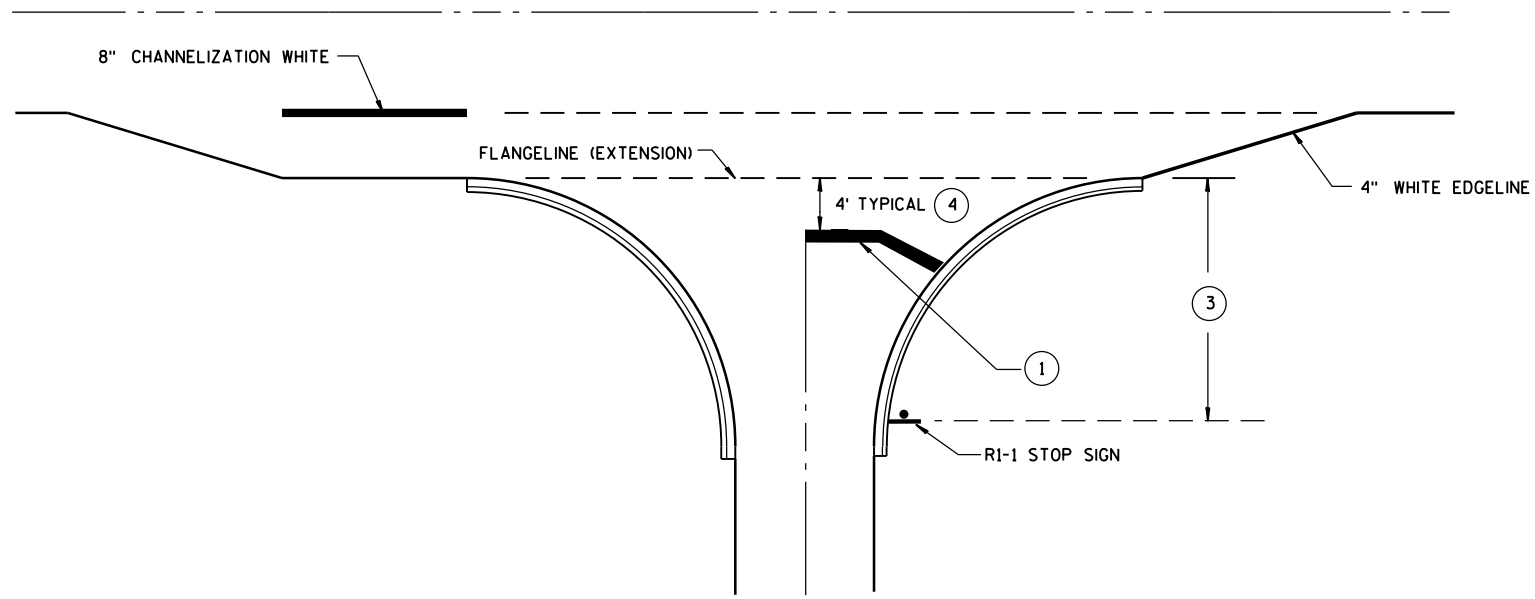
/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE SAFETY ENGINEER

52



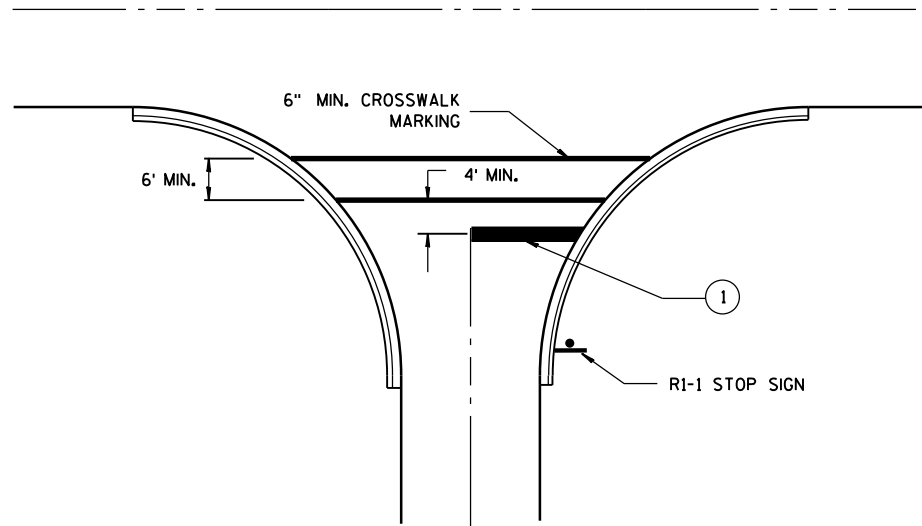
TYPICAL STOP LINE PAVEMENT MARKING
WITH CURB AND GUTTER



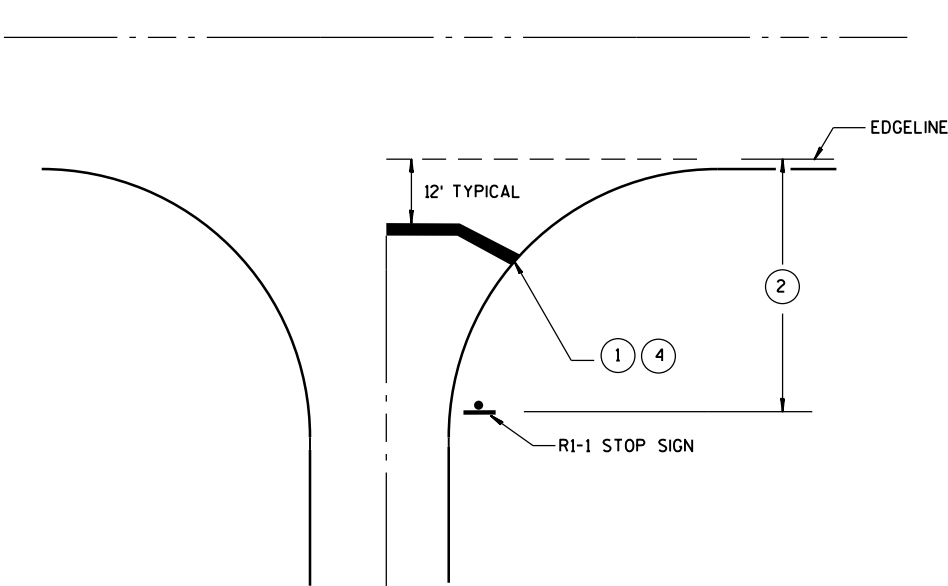
TYPICAL STOP LINE PAVEMENT MARKING
FOR SIDEROADS WITH RIGHT TURN LANE

GENERAL NOTES

- 1 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- 2 IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGE LINE THAN NO STOP LINE IS REQUIRED.
- 3 IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
- 4 MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).



TYPICAL STOP LINE PAVEMENT MARKING
FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING
WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
APPROVED			
4-18-2016	/S/ Matthew R. Rauch		
DATE	STATE SIGNING AND MAR 53		
FHWA	JEER		

GENERAL NOTES

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

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

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

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

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

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

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

TABLE A

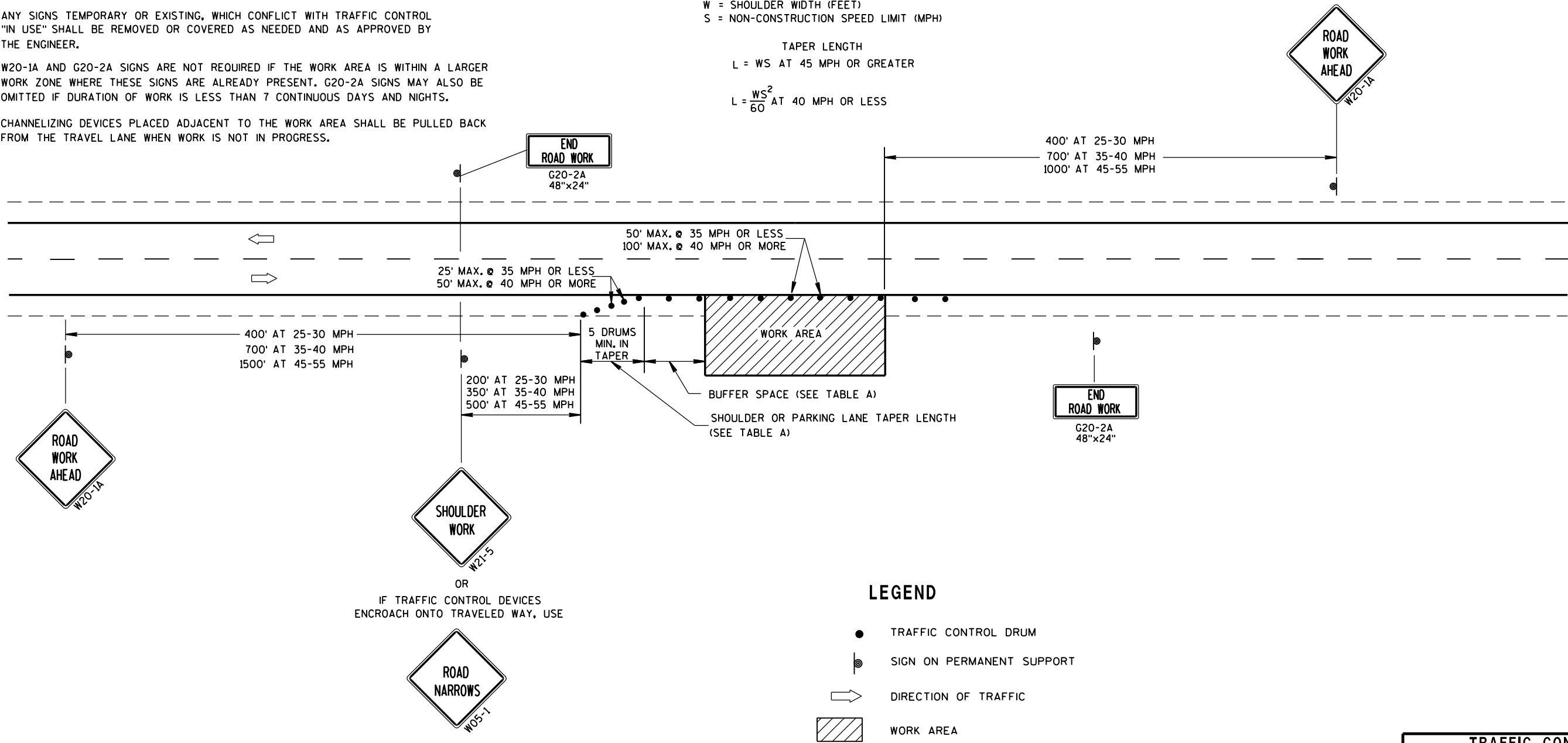
SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S	W	4	6	8	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

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

TAPER LENGTH
L = WS AT 45 MPH OR GREATER

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

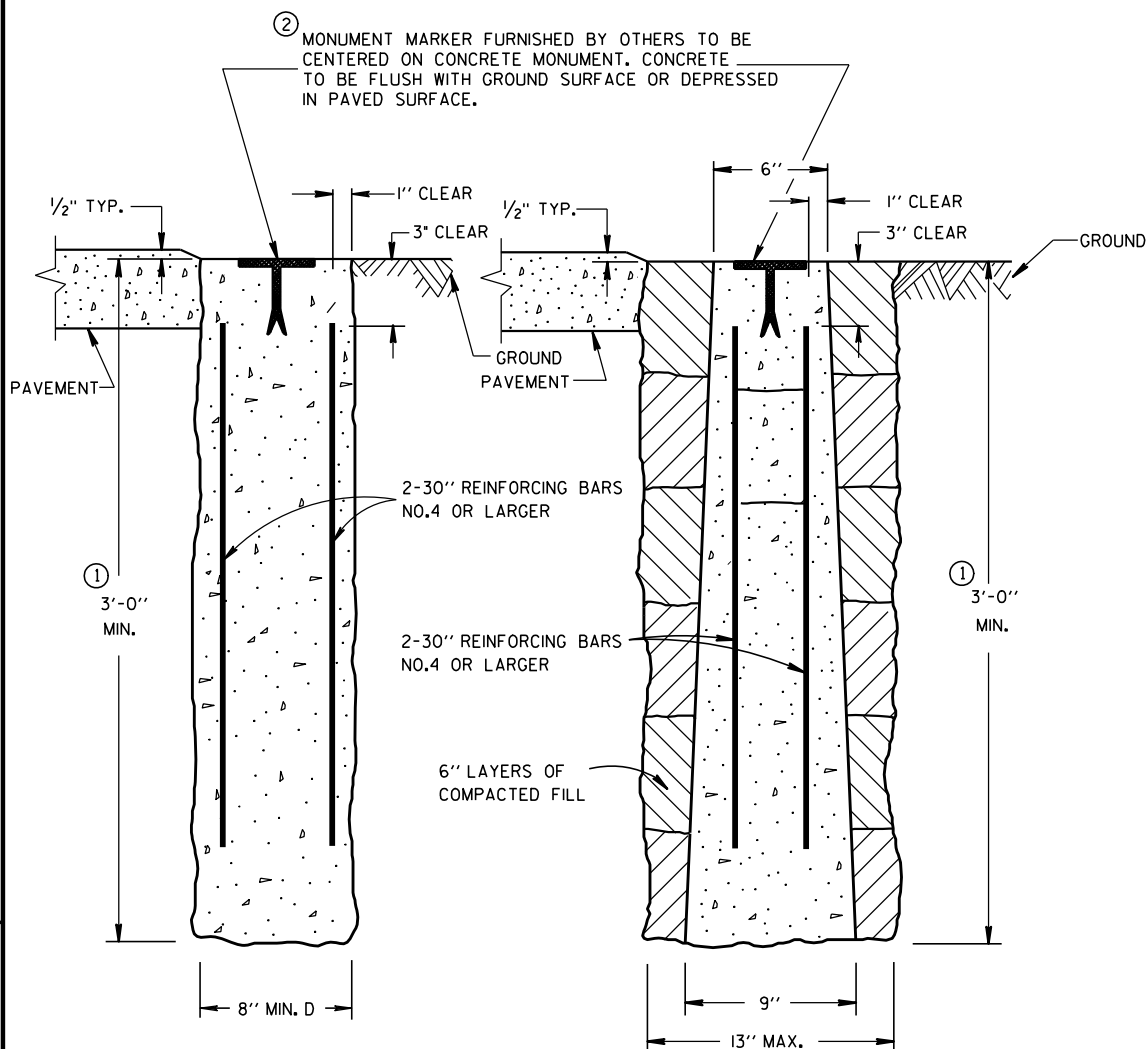
SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

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

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

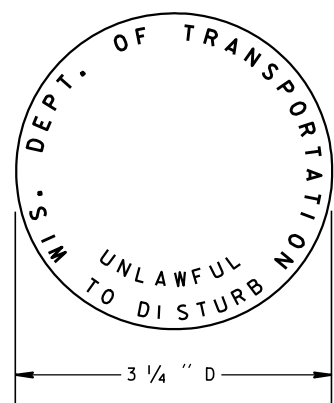


CAST-IN-PLACE

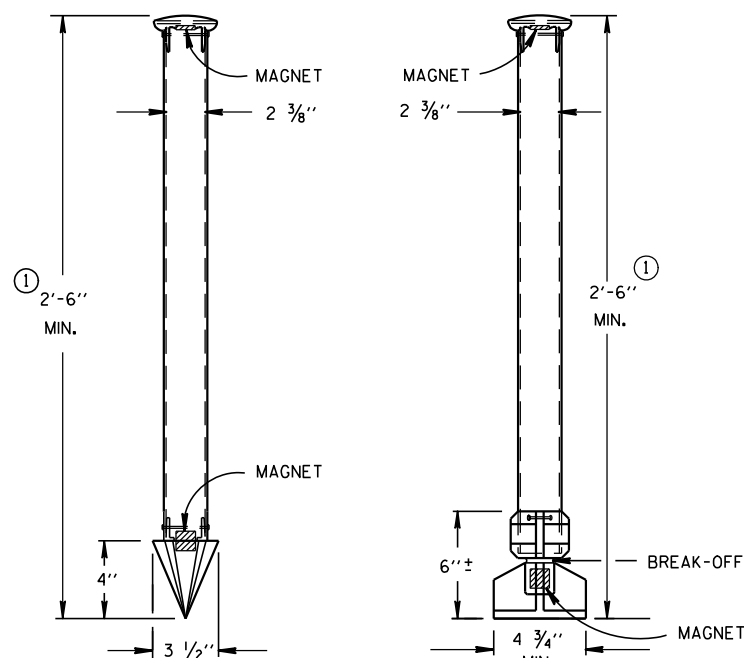
PRECAST

CONCRETE MONUMENTS

TYPE A



② WIS DOT MONUMENT MARKER LOGO
FOR TYPES "A", "C" & "D"



TYPE C

TYPE D

DRIVE-IN MONUMENT

BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

GENERAL NOTES

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

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

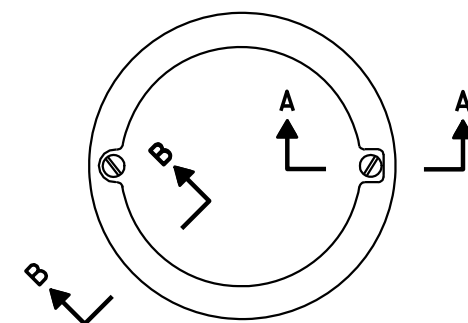
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

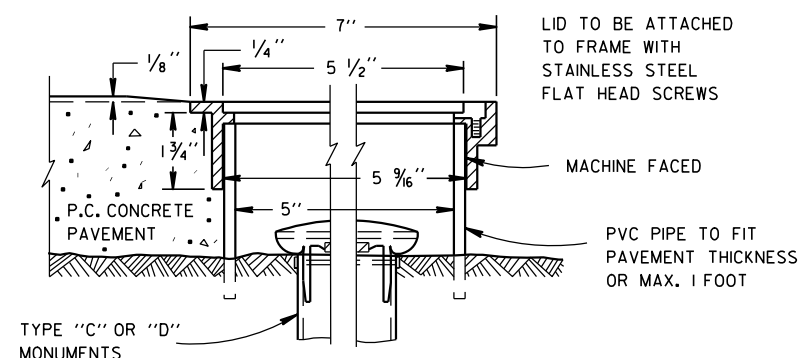
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

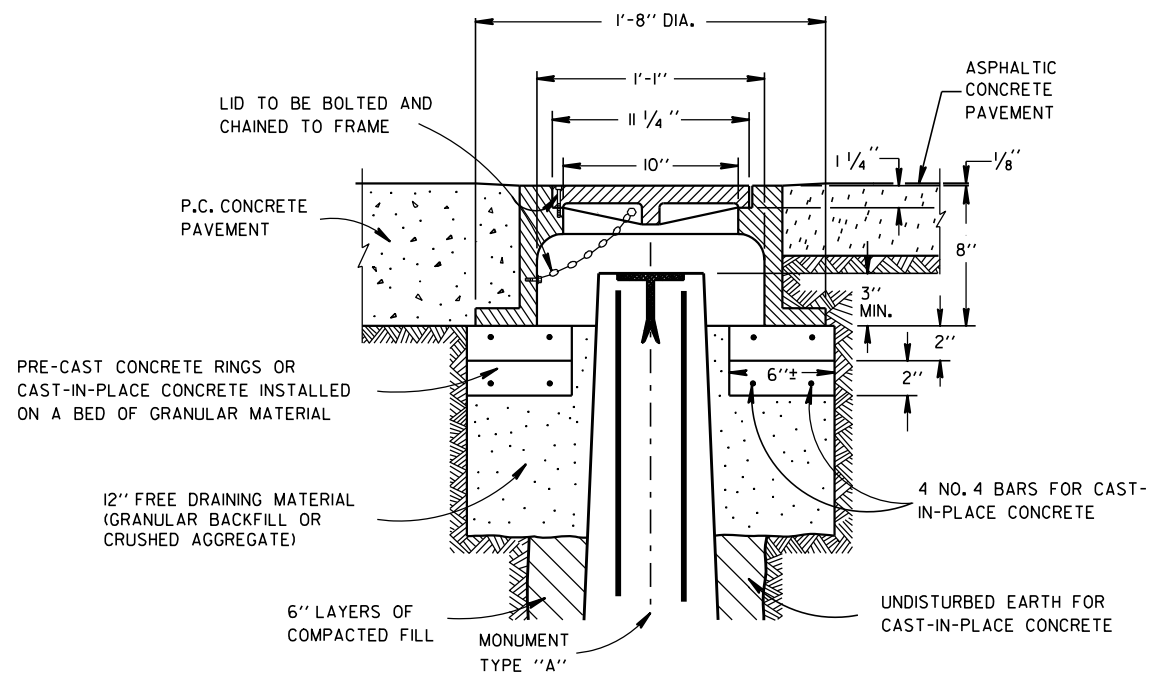
② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW

SECTION B-B SECTION A-A
ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)

LANDMARK REFERENCE
MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/22/1999

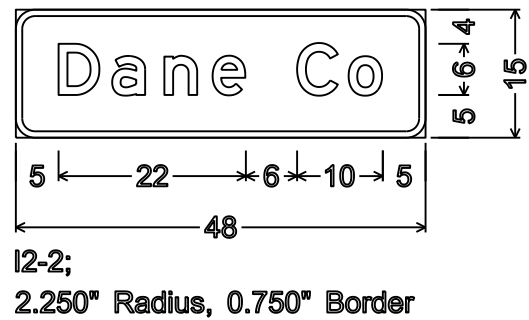
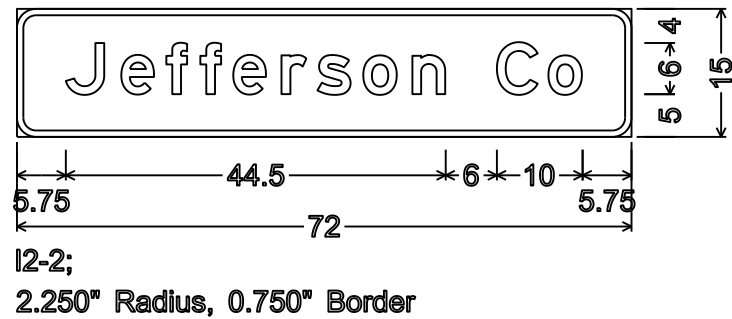
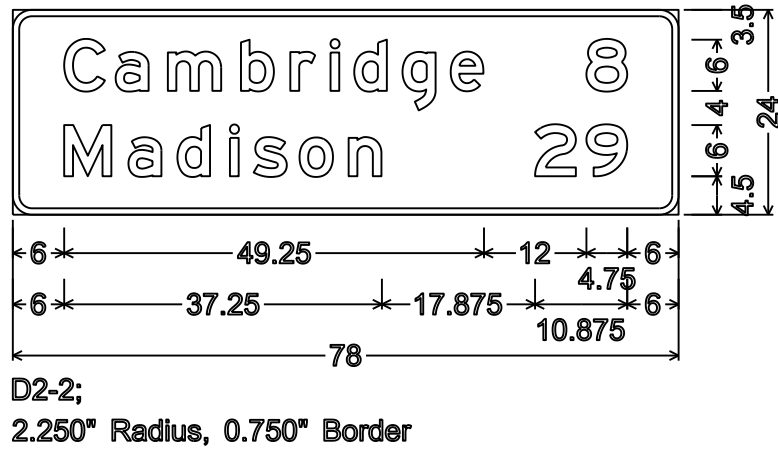
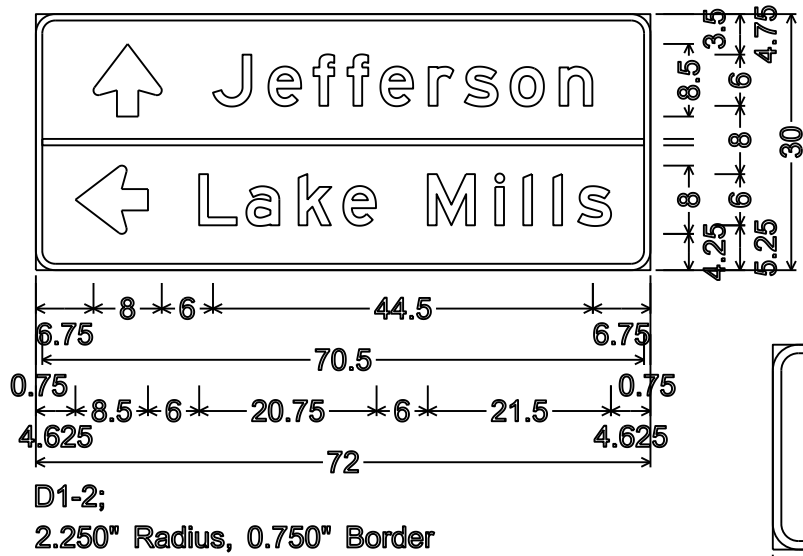
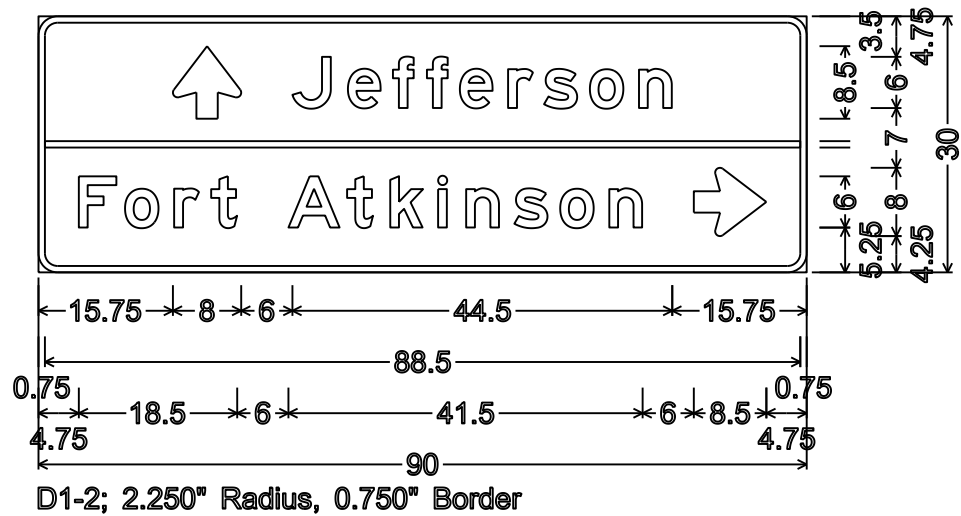
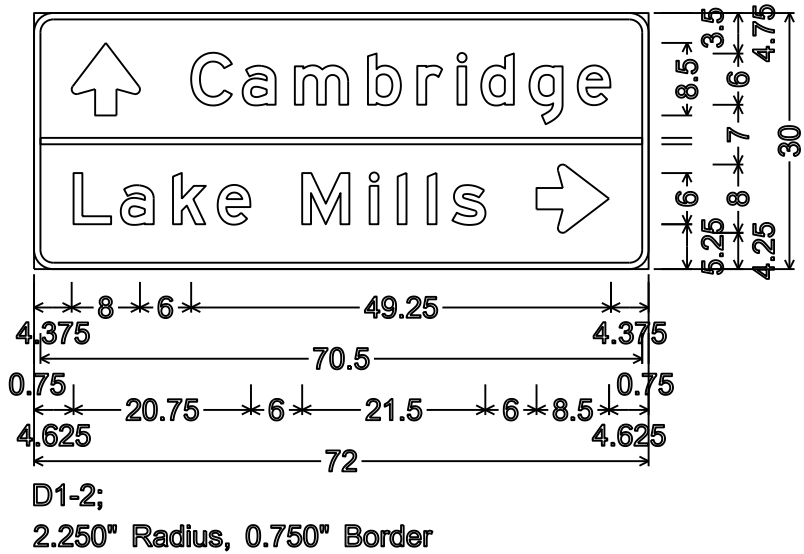
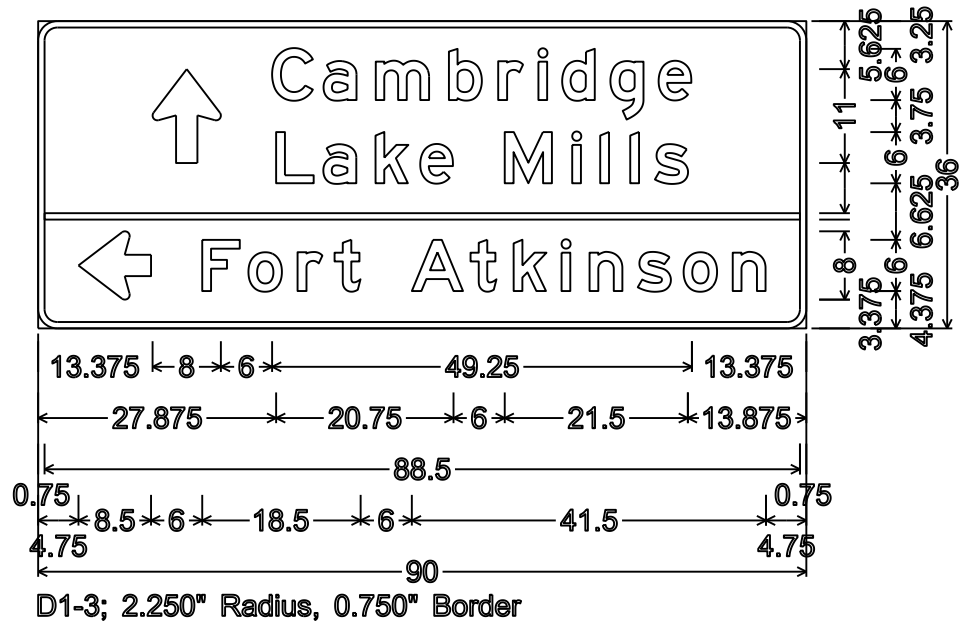
DATE

FHWA

/S/ Rory L. Rhinehart

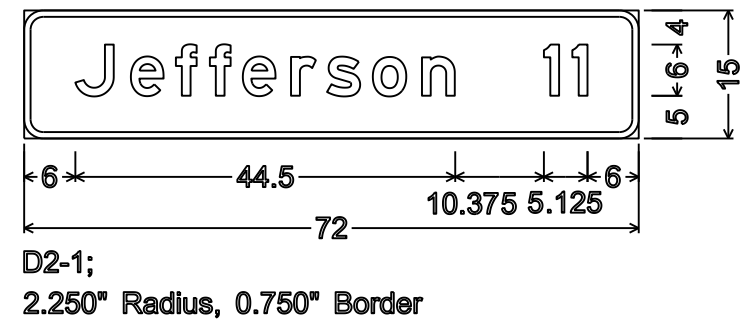
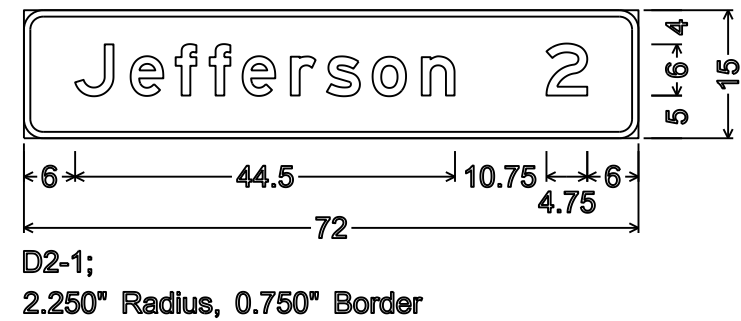
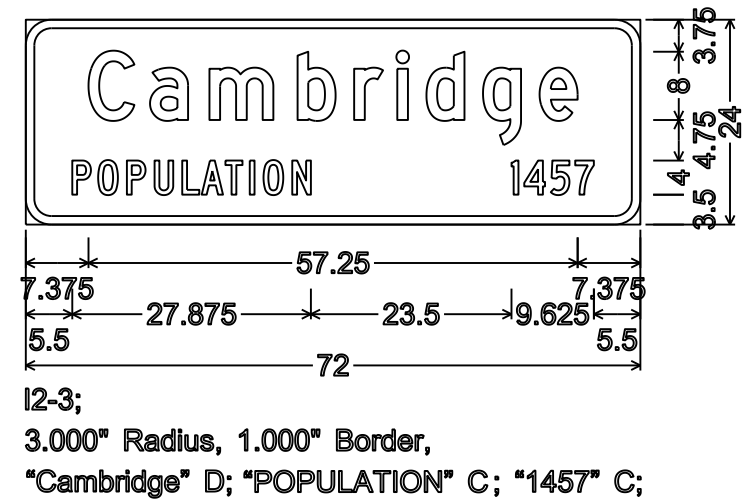
CHIEF ROADWAY DEVELOPER

NEER

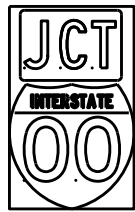


NOTES

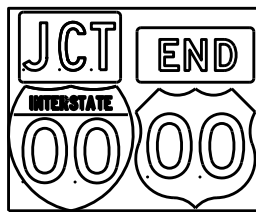
1. All Signs Type II - Type H Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E except as noted



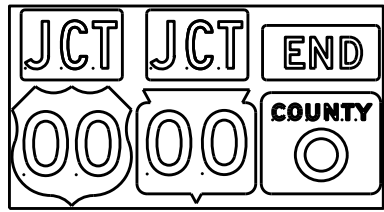
TYPICAL ASSEMBLIES



J1-1



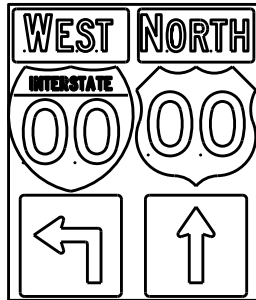
J1-2



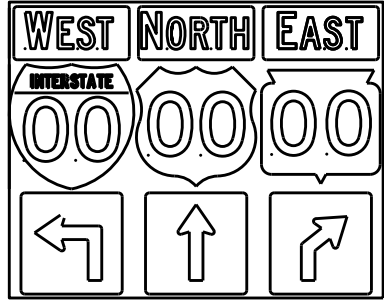
J1-3



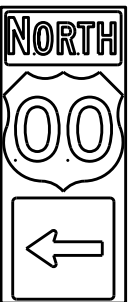
J2-1



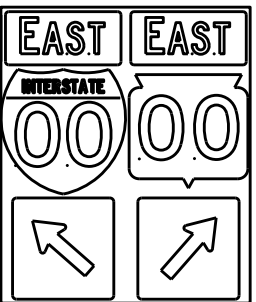
J2-2



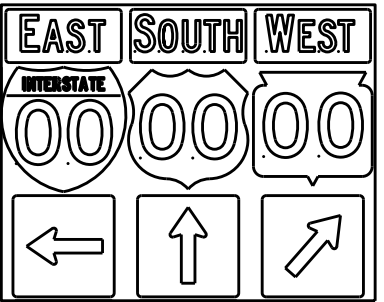
J2-3



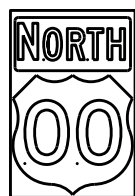
J3-1



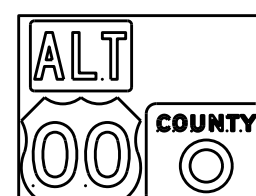
J3-2



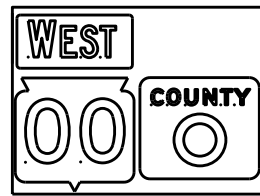
J3-3



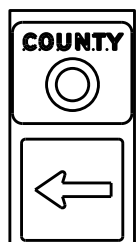
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

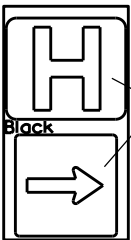


J22-1



JV

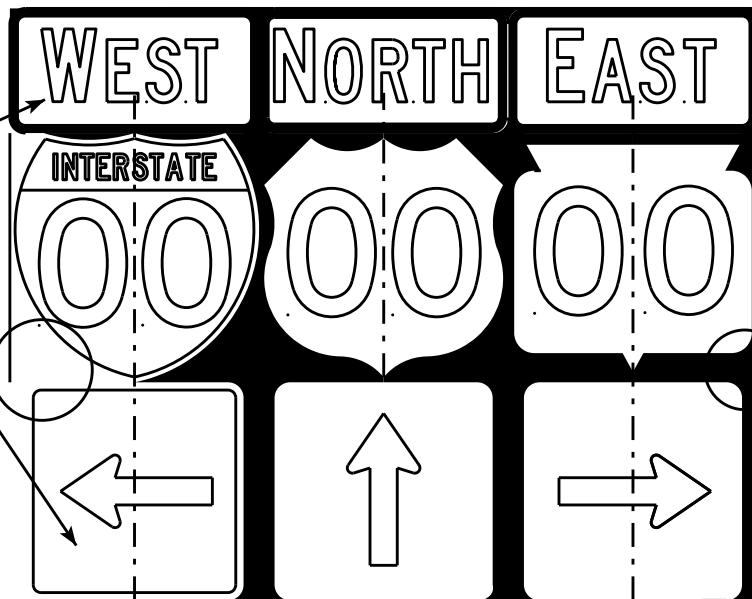
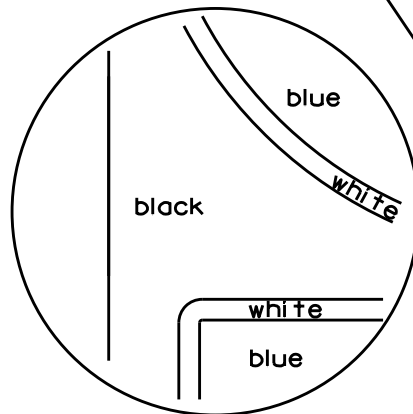
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

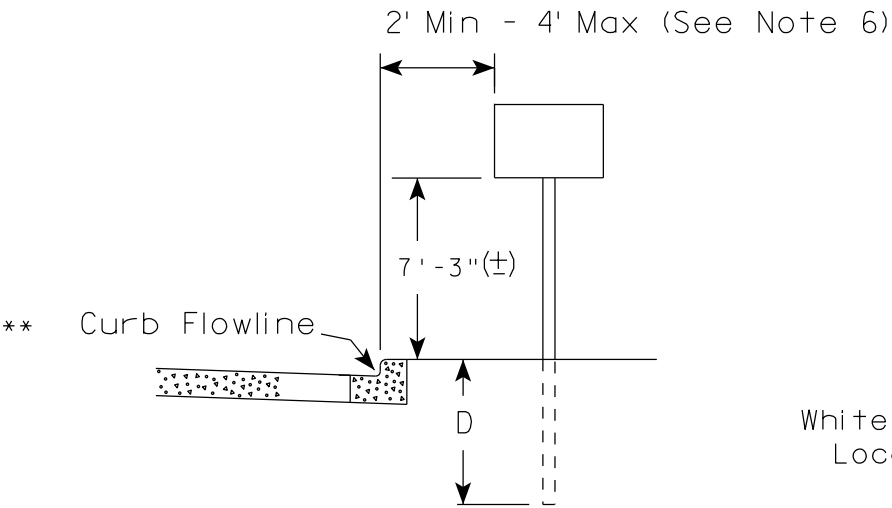
DATE 2/06/14 PL 57 A2-1S.8

SHEET NO: E

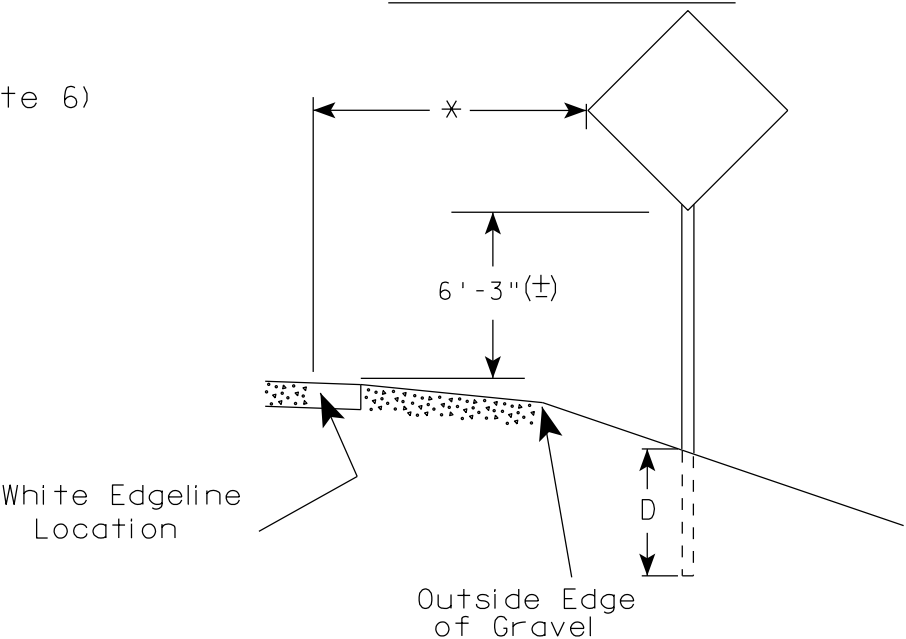
NOTES

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

URBAN AREA

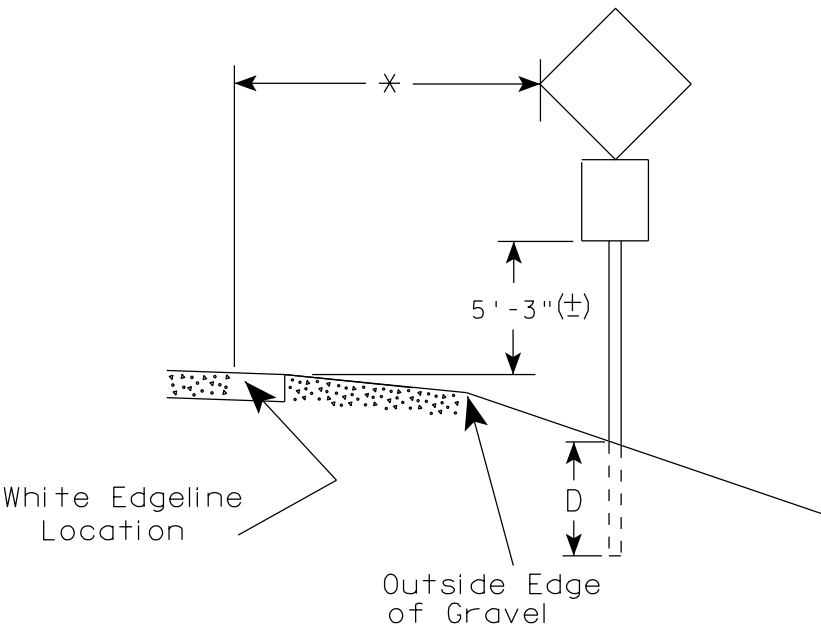
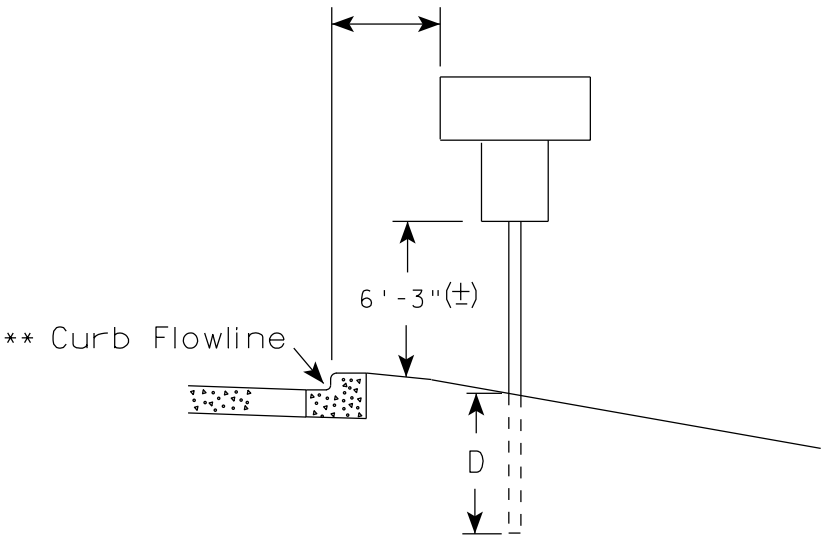


RURAL AREA (See Note 2)



- GENERAL NOTES
1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
 2. If signs are mounted on barrier wall, see A4-10 sign plate.
 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
 4. Minimum mounting height for J assemblies (A2-1S) 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 signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

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



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.

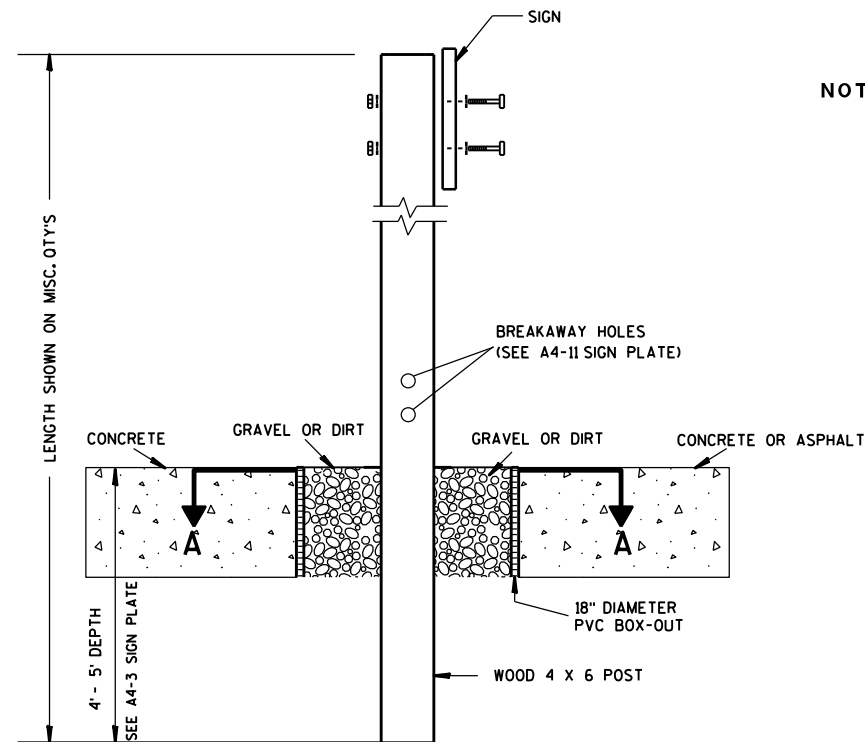
TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

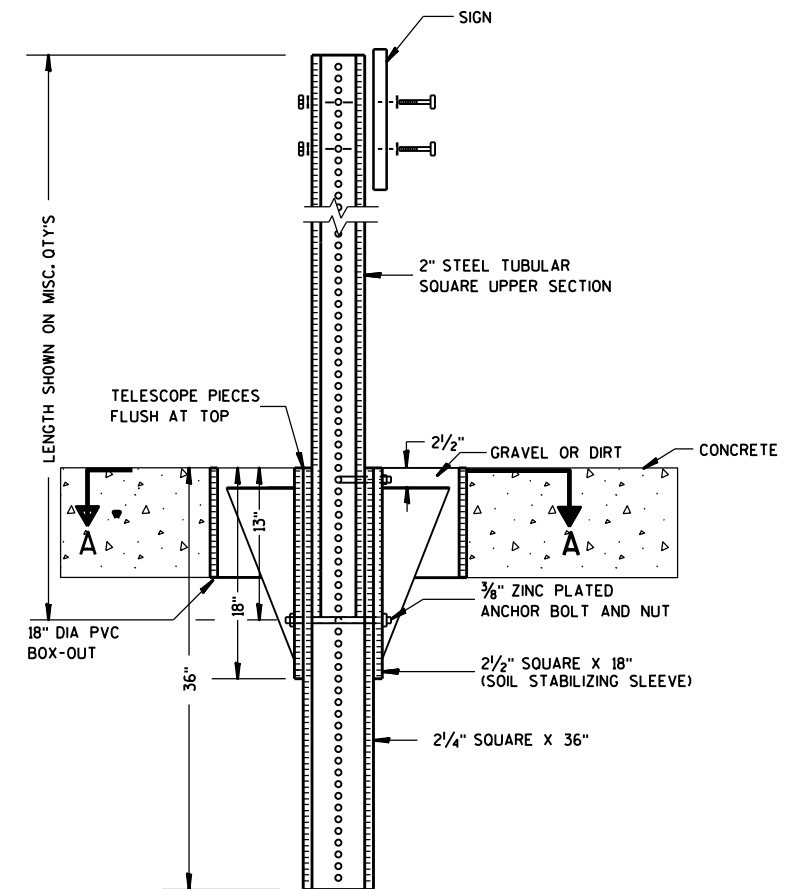
58



ELEVATION VIEW

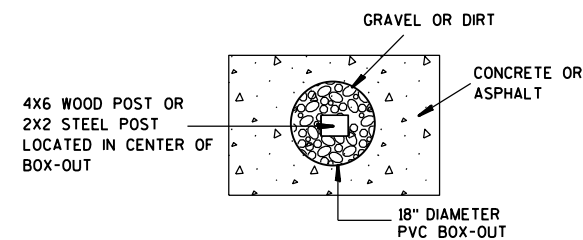
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST
BOX-OUTS
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/27/14 PLAT 59 A4-3B.1

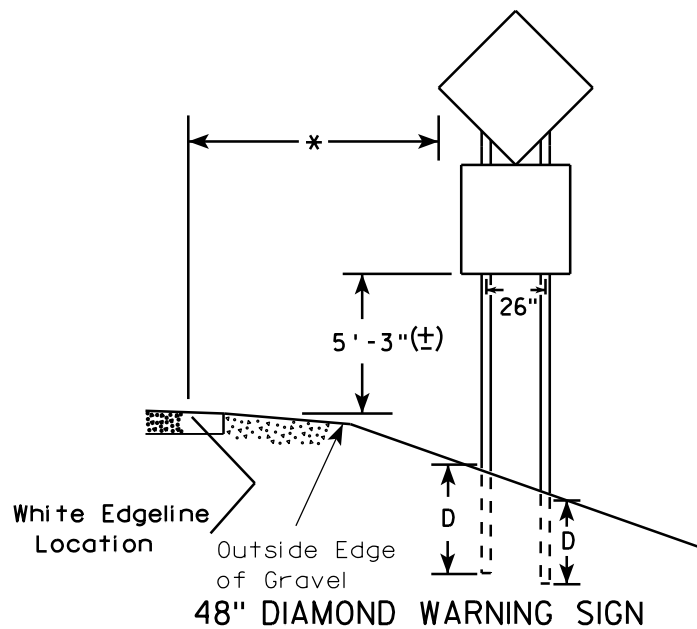
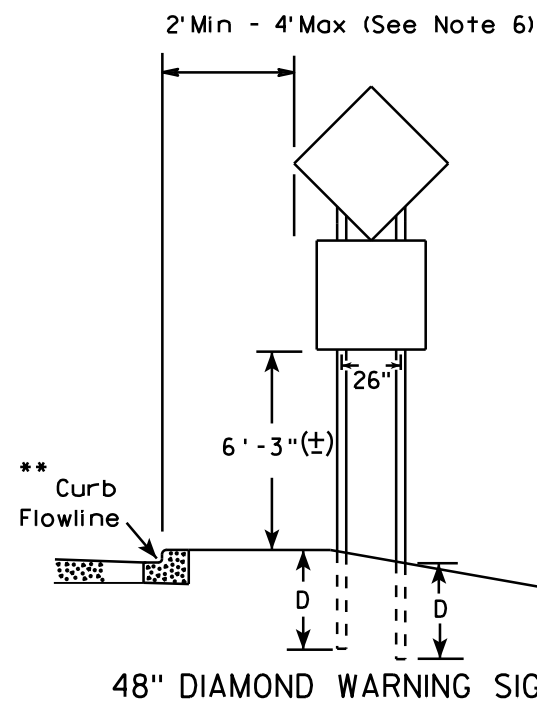
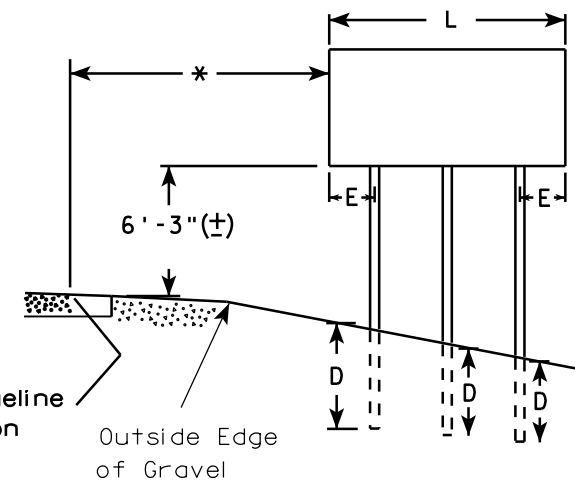
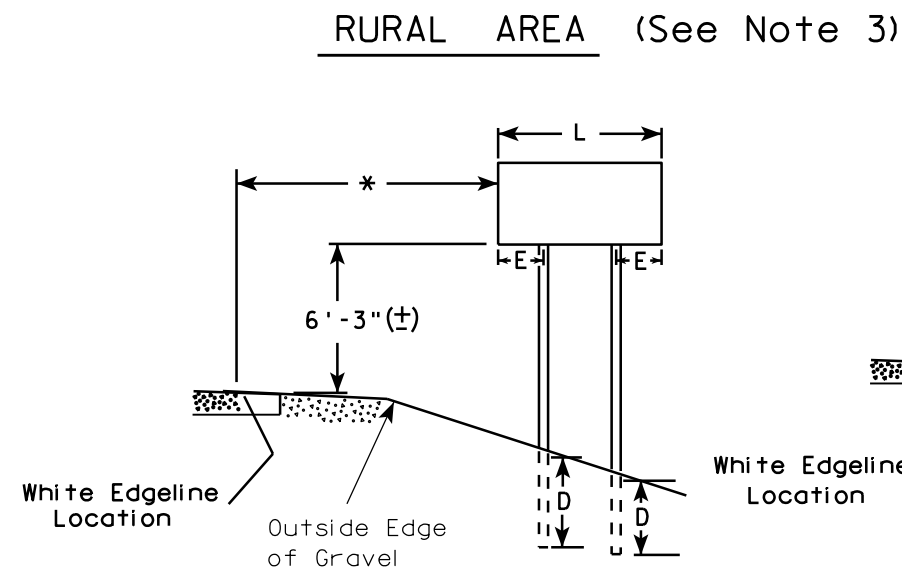
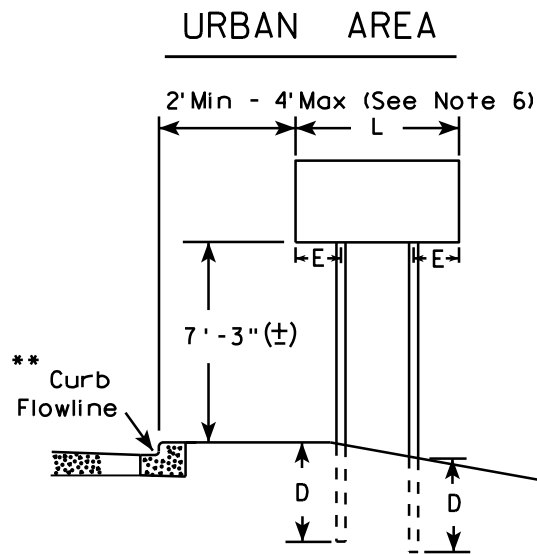
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



- GENERAL NOTES**
1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
 2. See tables below for required number of posts.
 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
 4. The (±) tolerance for mounting height is 3 inches.
 5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

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

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

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

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

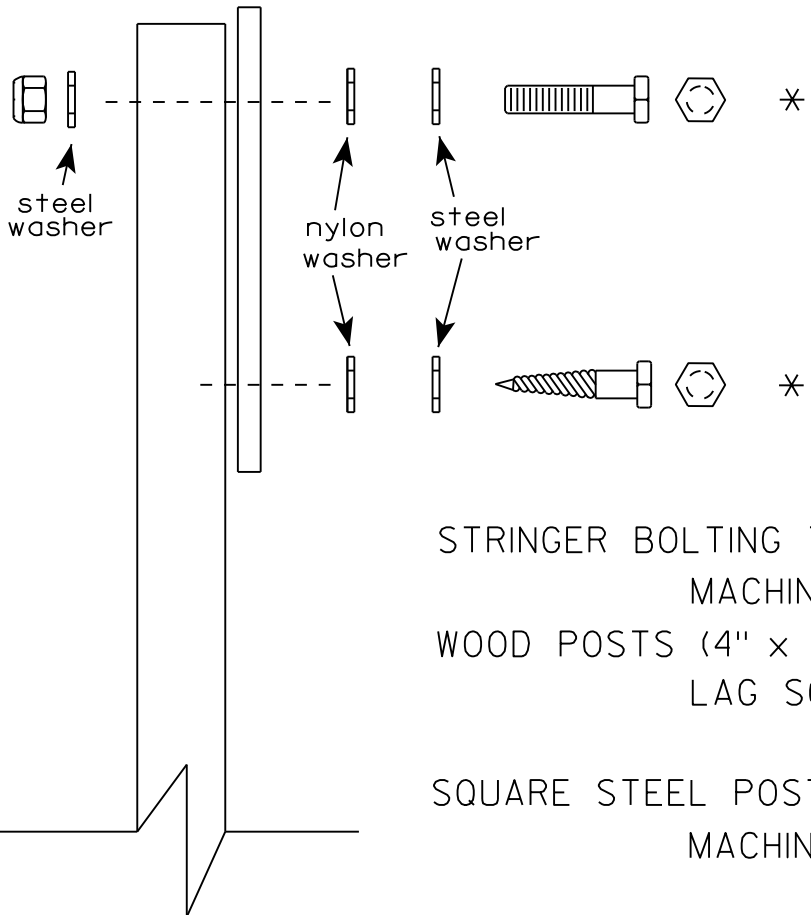
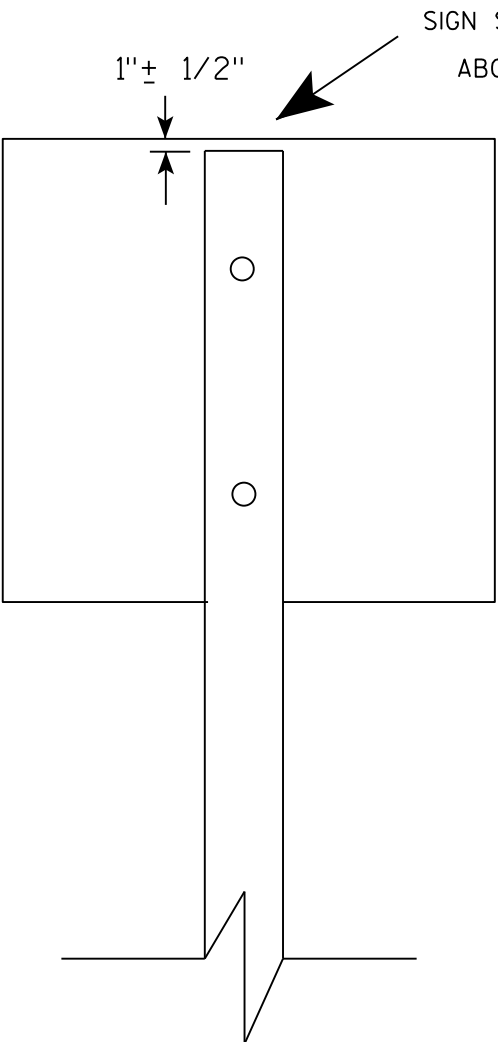
Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 7/23/15 PLATE NO. 14



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

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

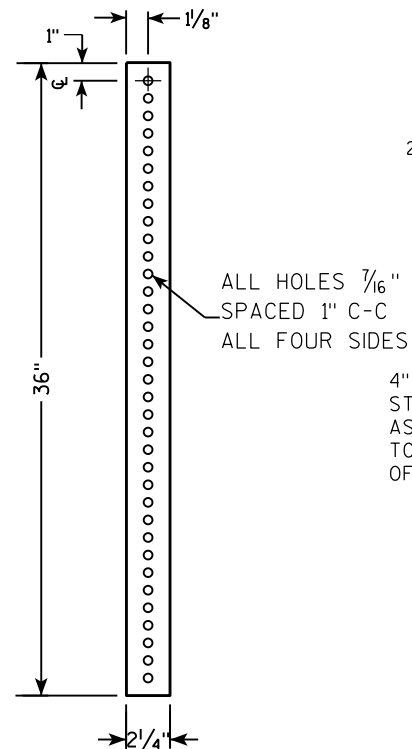
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - $\frac{3}{8}$ " X 3" (NO STRINGERS ON BACK OF SIGN)
 - $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - $\frac{3}{8}$ " X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
 - $\frac{3}{8}$ " X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - $\frac{9}{32}$ " (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 $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL
 - 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

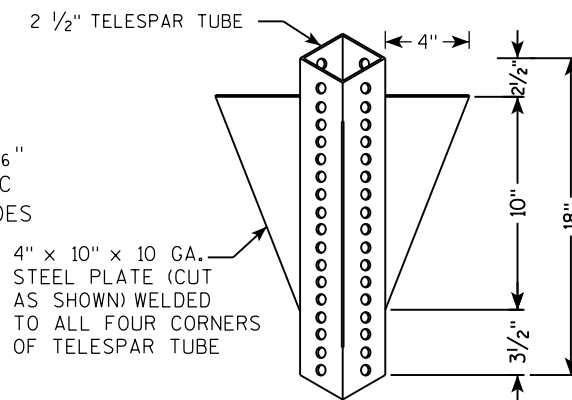
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require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

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 8/11/16	PLATE NO. A4-8.8 61

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



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



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

LENGTH SHOWN ON MISC. QTY'S

TELESCOPE PIECES FLUSH AT TOP

2" STEEL TUBULAR SQUARE UPPER SECTION

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

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

1"

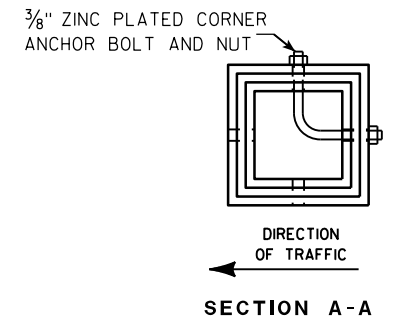
$\frac{3}{8}$ " ZINC PLATED ANCHOR BOLT AND NUT

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

2 1/4" SQUARE X 36"

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

SIGN



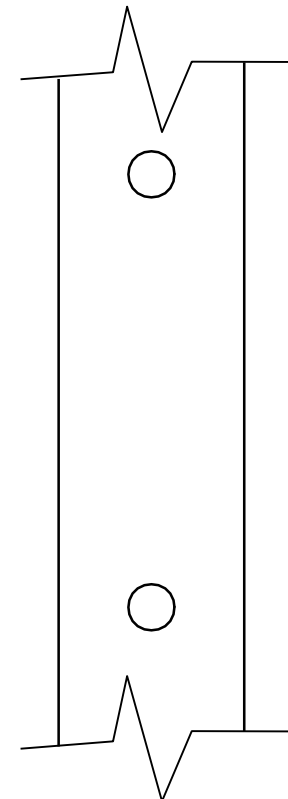
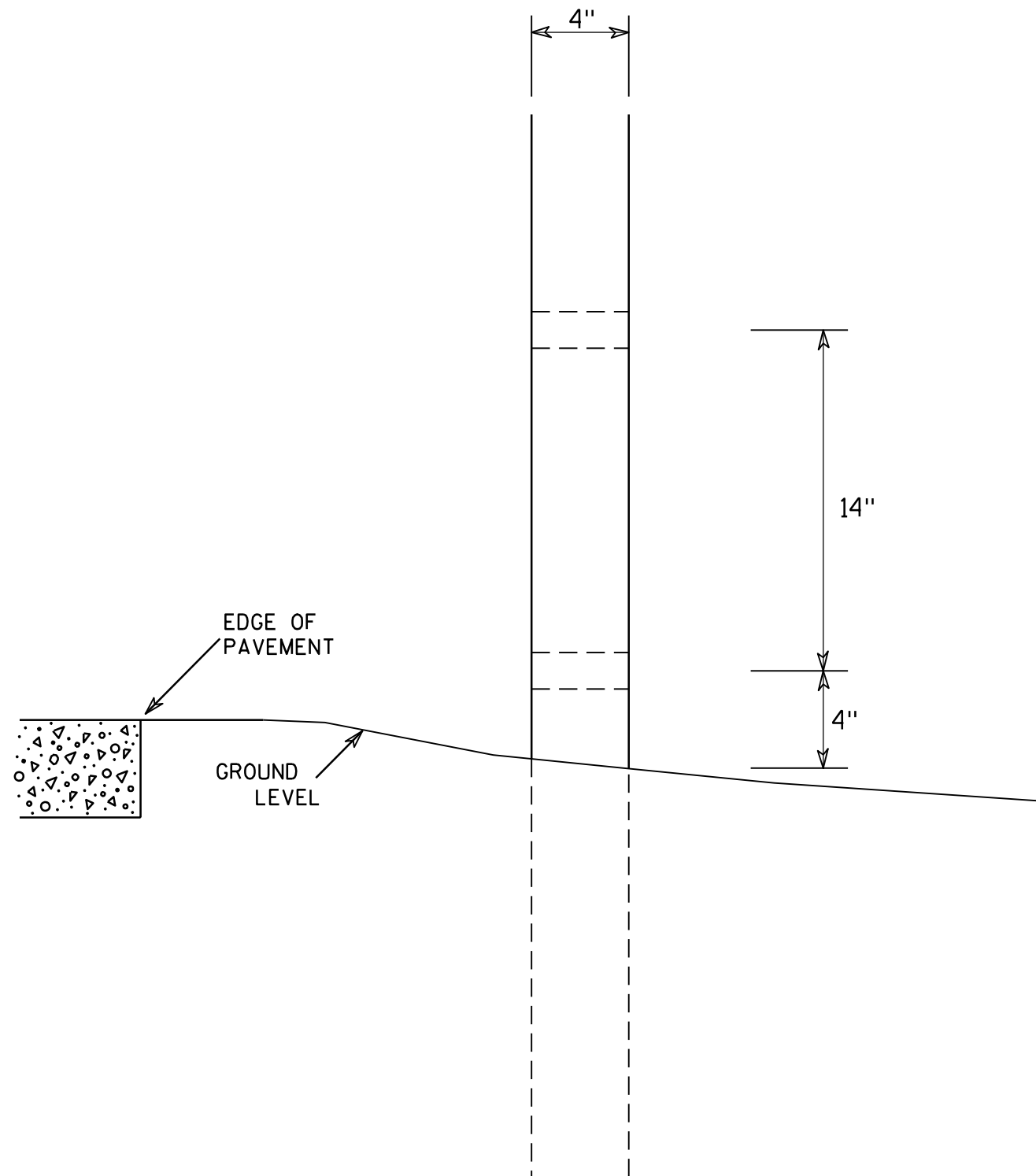
Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/05/15 PLAT 62 14-9.9



SIDE VIEW

GENERAL NOTES

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

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

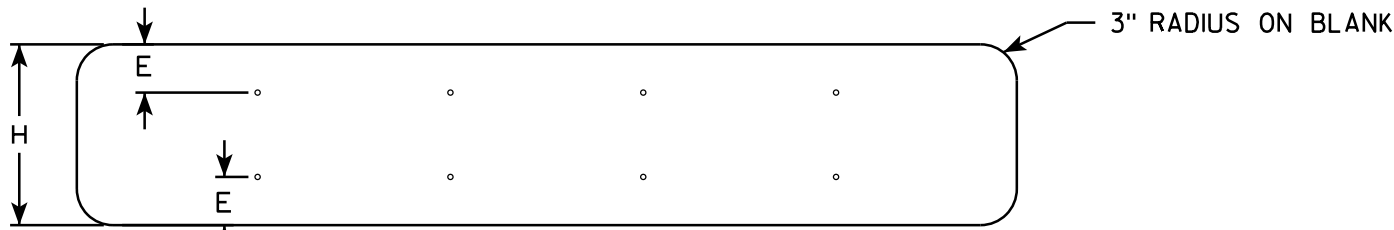
PROJECT NO:

HWY:

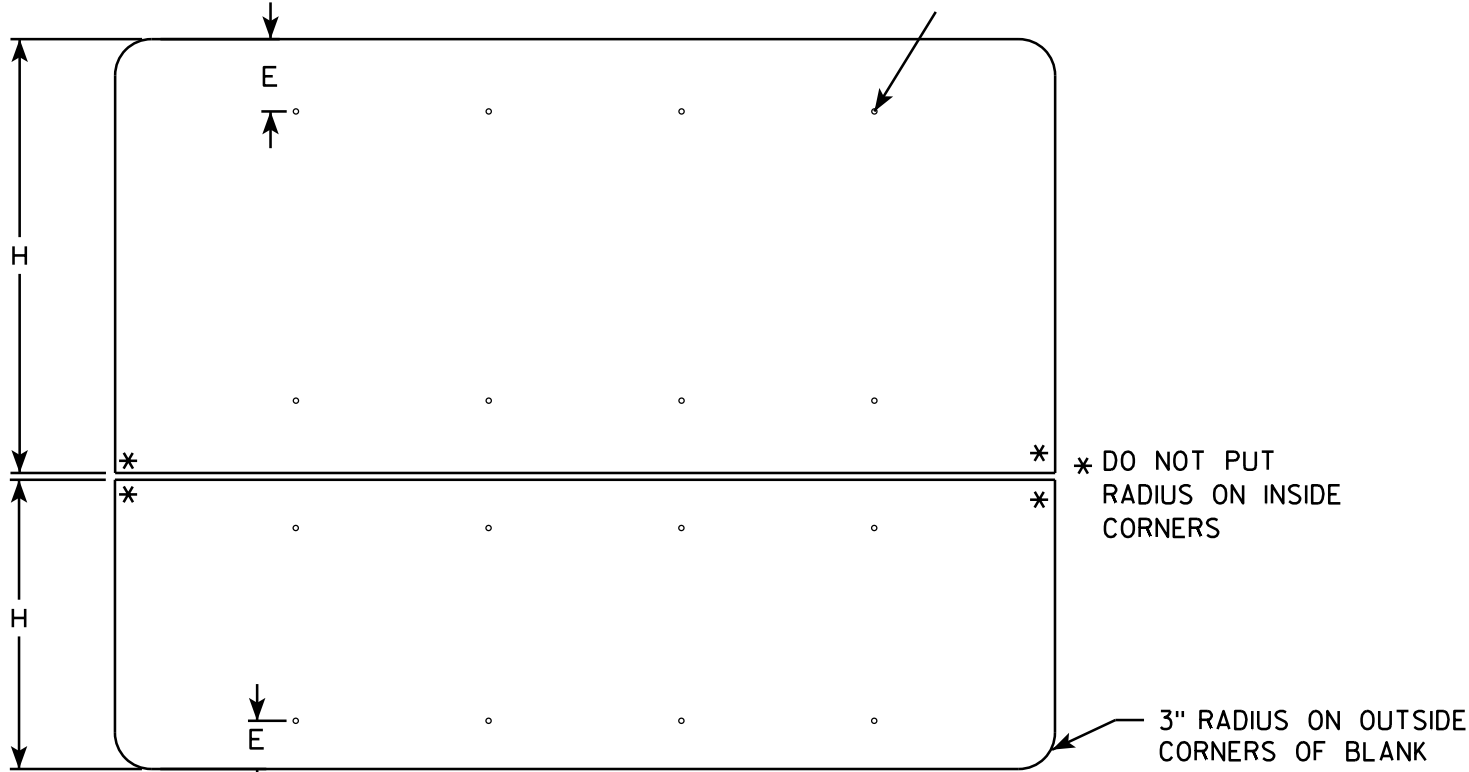
COUNTY:

SHEET NO: 63

E



SINGLE PIECE ALUMINUM SIGN 1/16" MOUNTING HOLES



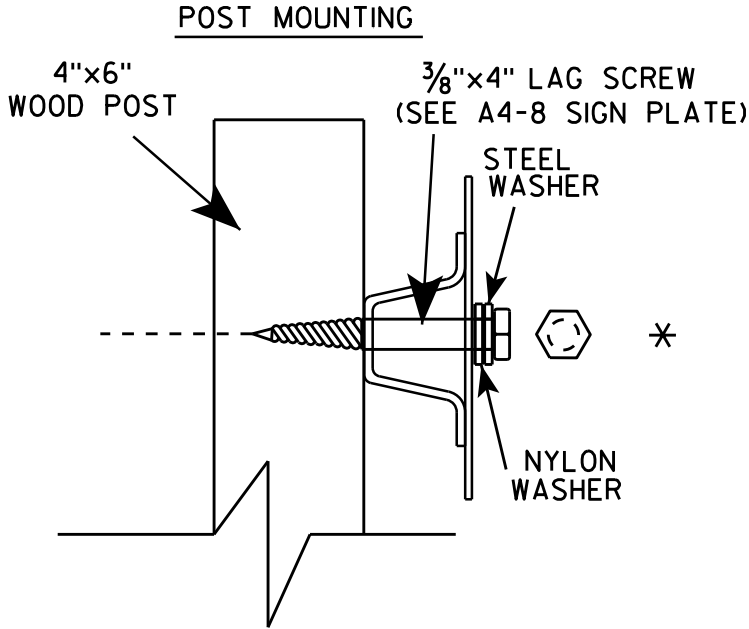
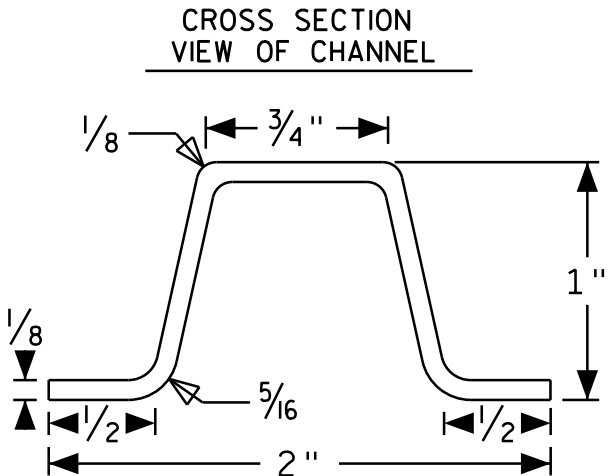
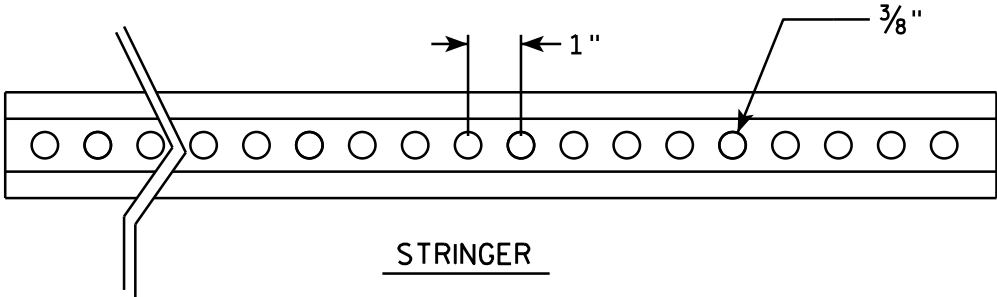
MULTI-PIECE ALUMINUM SIGN

* DO NOT PUT RADIUS ON INSIDE CORNERS

GENERAL NOTES

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

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



SIGN STRINGER
MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

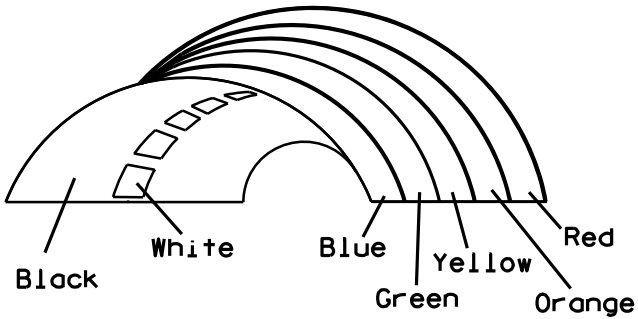
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/26/16 PLATE No A4-18.1
64



* 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: 65

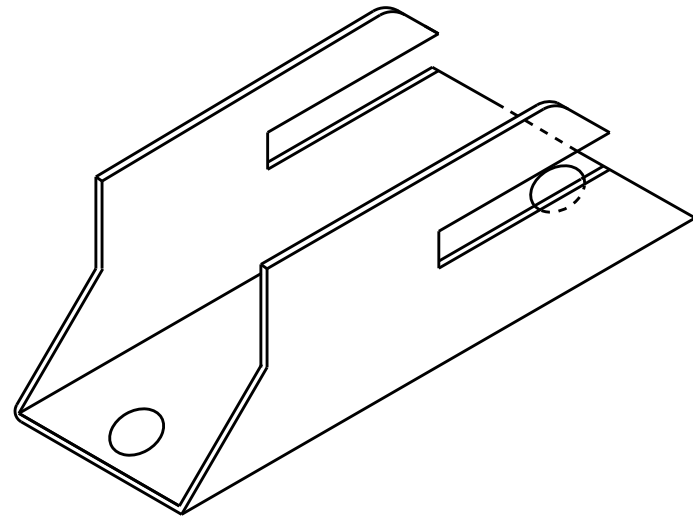
STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

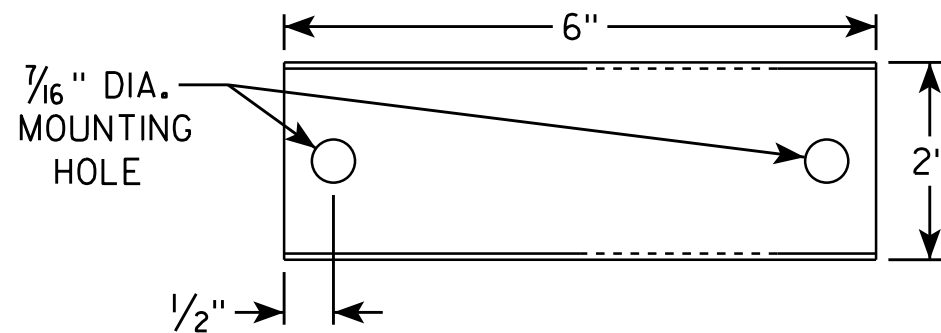
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

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

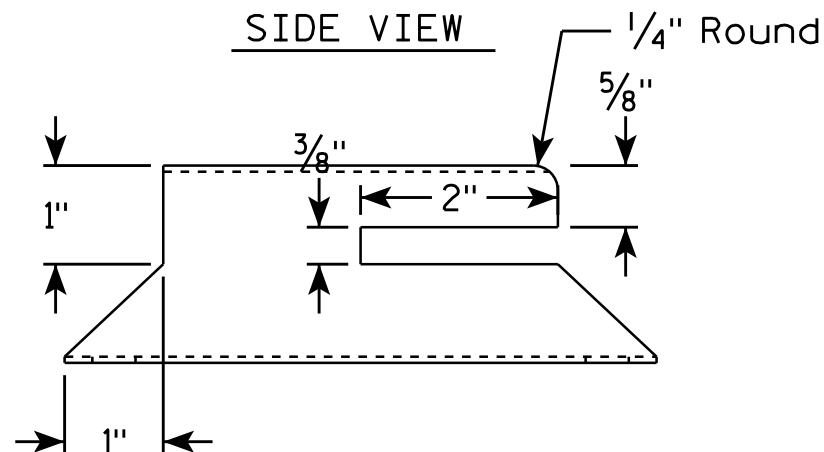
ISOMETRIC VIEW



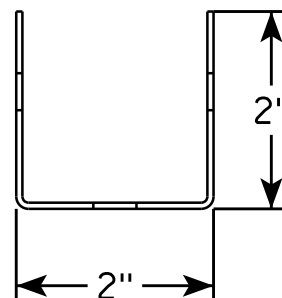
TOP VIEW



SIDE VIEW



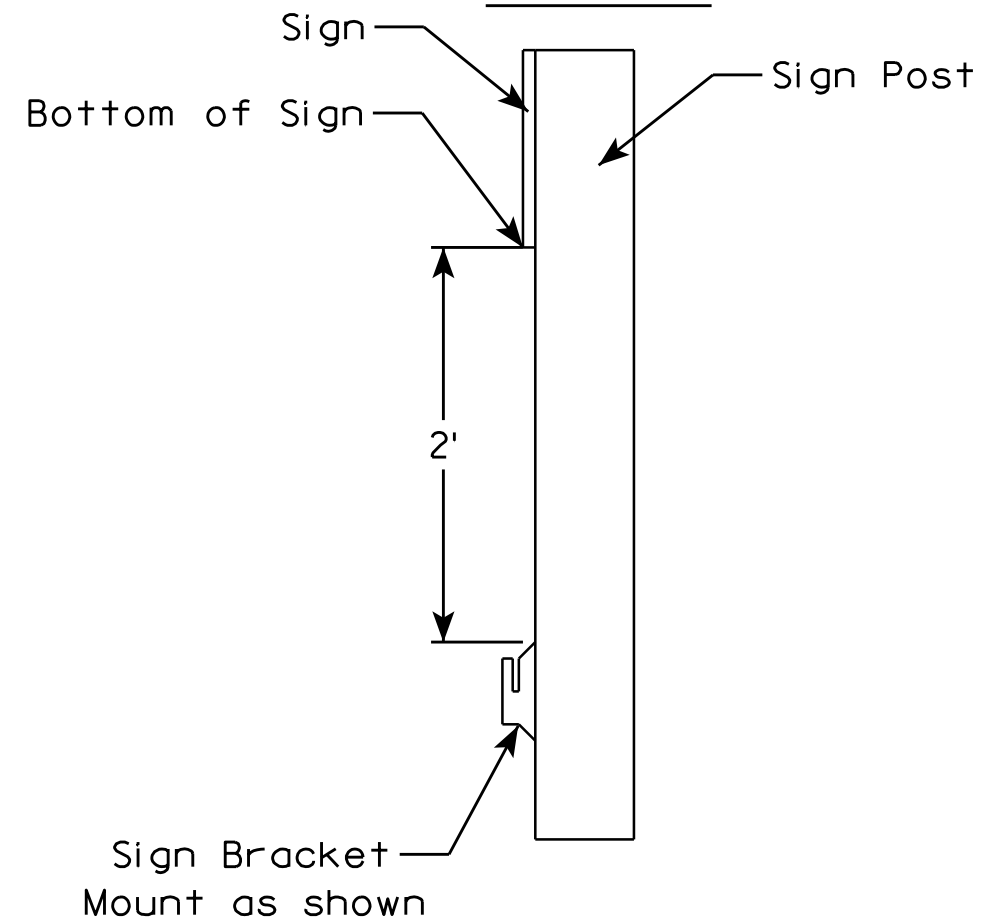
END VIEW



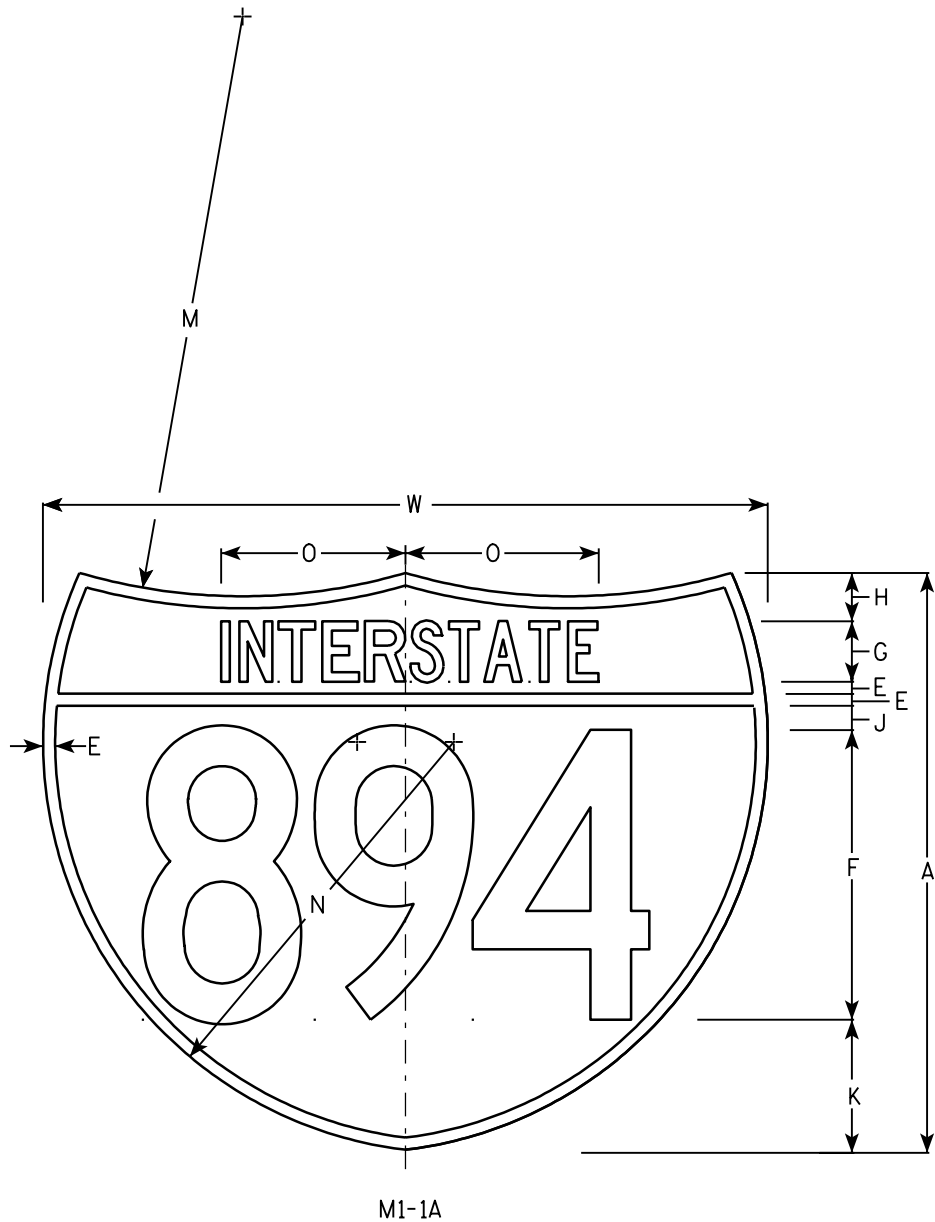
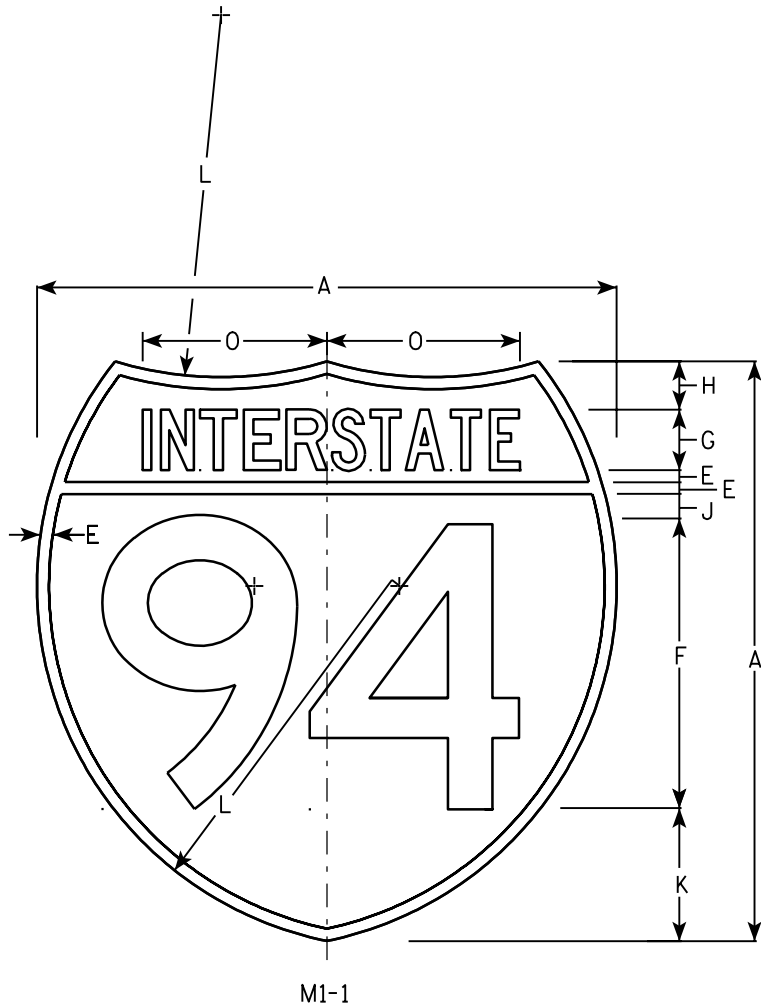
NOTES

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	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 4/26/16	PLA 5-56B.2



NOTES

- 1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Top Red - Bottom Blue (See Note 6)
Message - White - See Note 6
- 3. Message Series - See note 5
- 4. Substitute appropriate numerals & adjust spacing as per plate A10-1.
- 5. M1-1 - Numerals - D
Interstate - C
M1-1A - All copy - C
- 6. Permanent Signs
Message - Type H Reflective
Detour or other temporary signs
Background - Reflective
Message - Reflective

Metric equivalent for these signs are:

SIZE	M1 - 1	SIZE	M1 - 1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 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	Area sq. ft.	Area sq. ft.	Area m ²	Area m ²
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 67

E

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

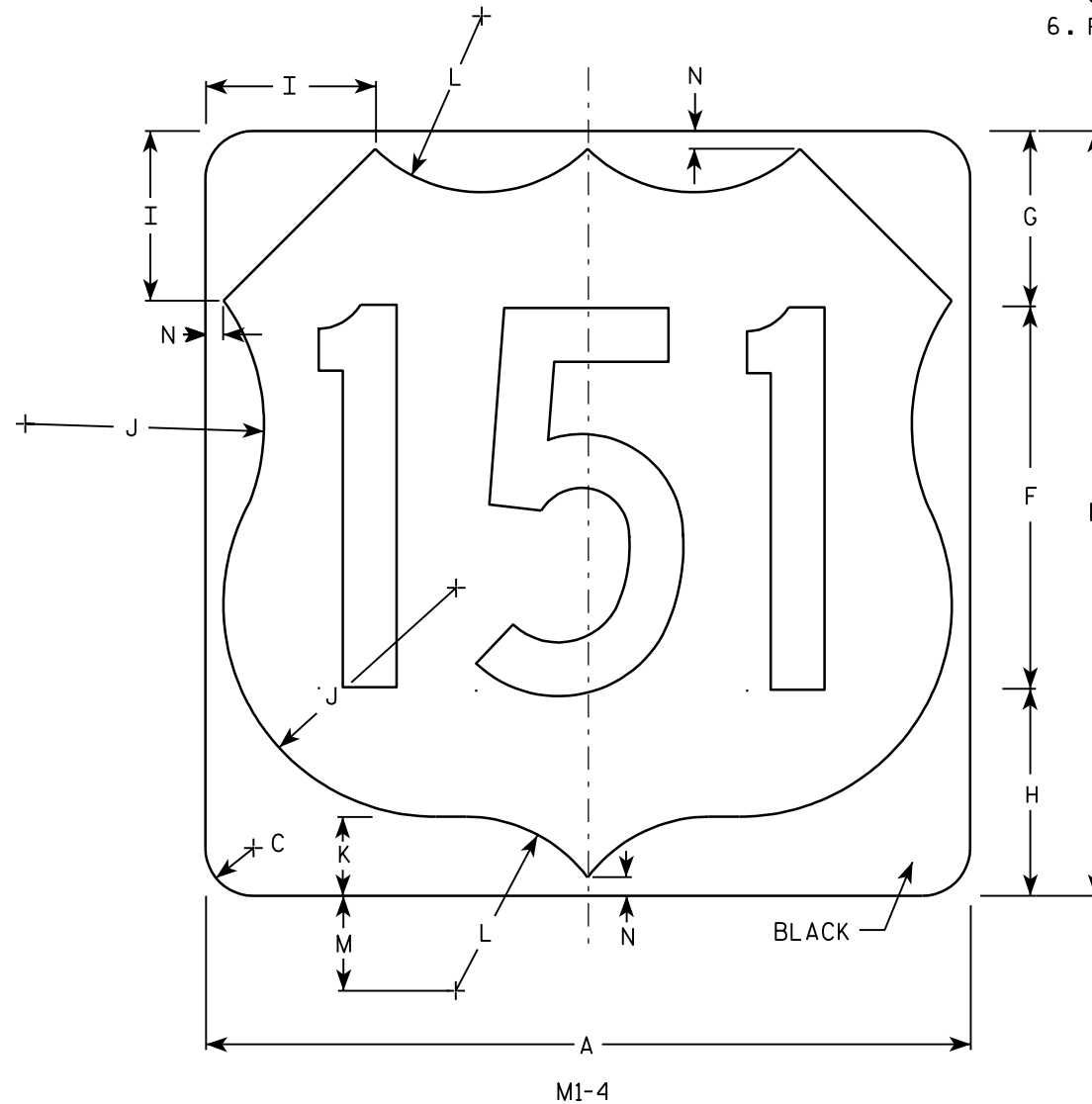
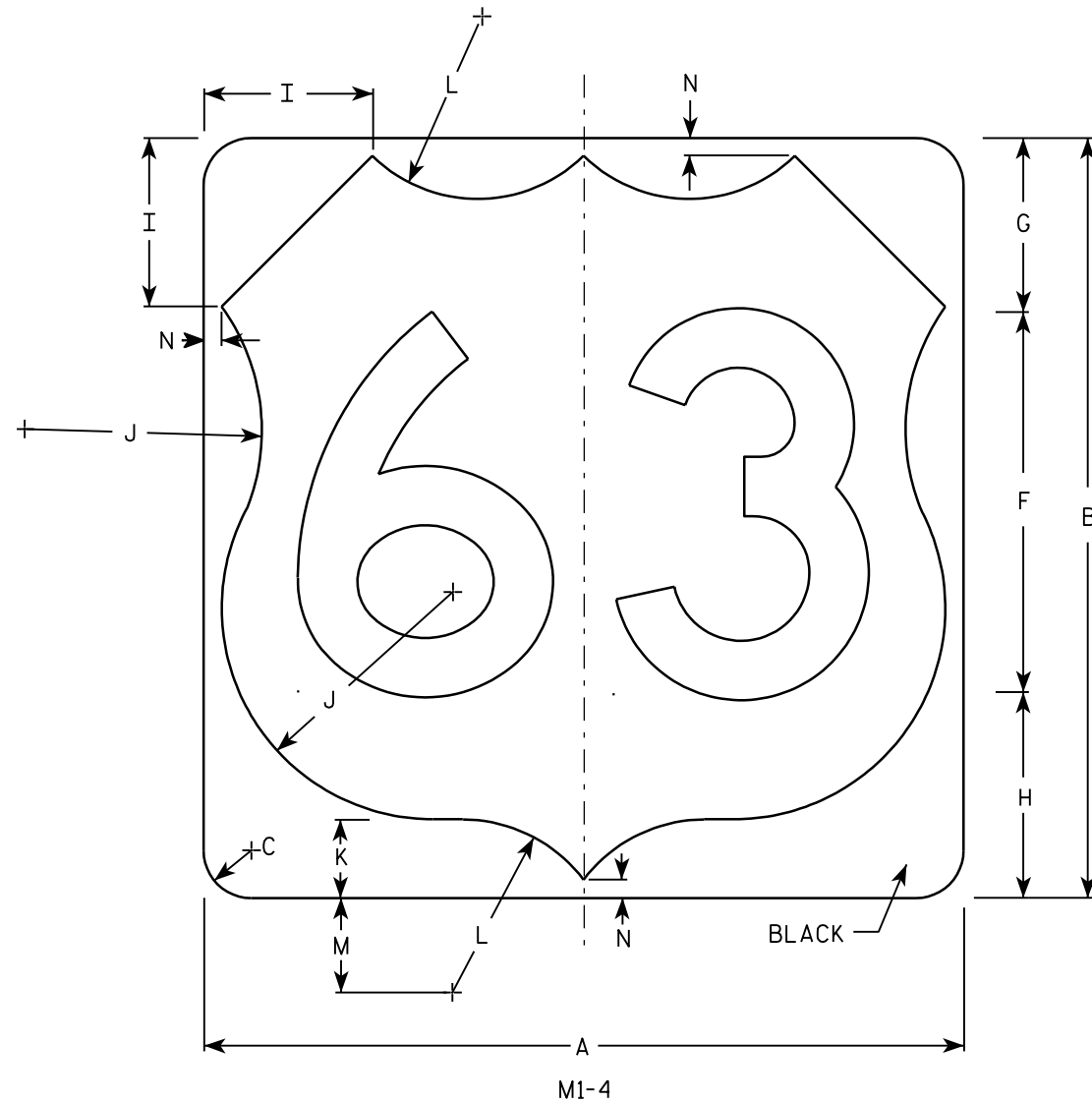
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

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 numerals and adjust
spacing as per Plate A10-1.
6. Permanent Signs
Background - Type H Reflective
Detour or other temporary signs
Background - Reflective



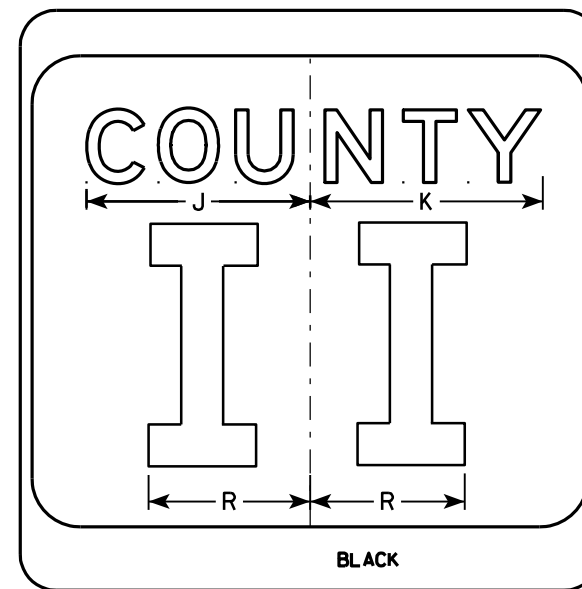
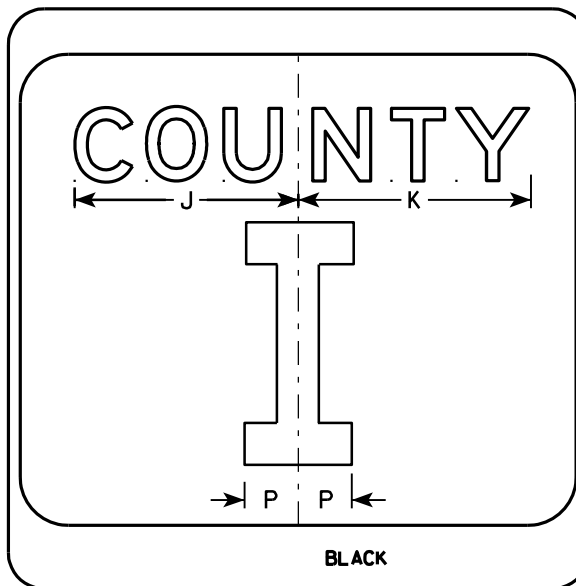
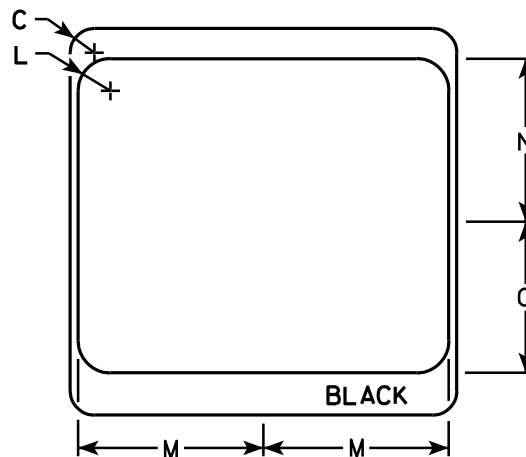
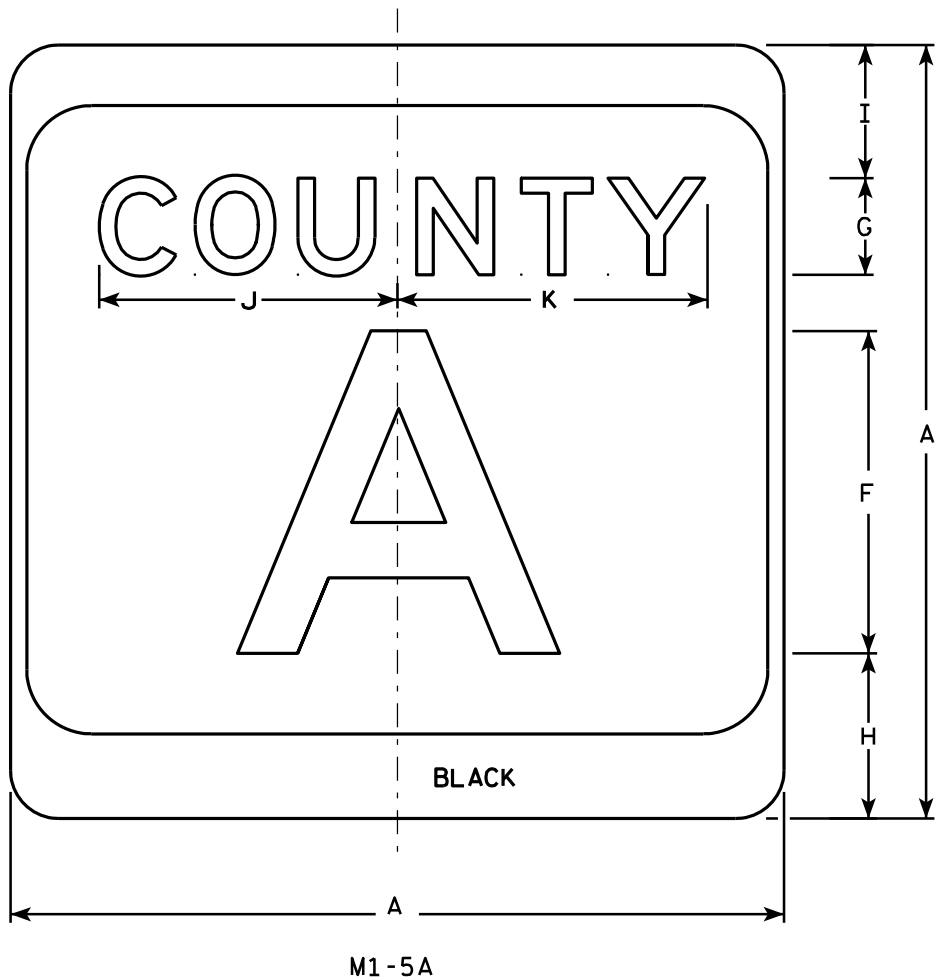
Metric equivalent
for this sign is:

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	Areq sq. ft.	Area m ²
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

PROJECT NO: HWY: COUNTY: SHEET NO: 68 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: 69	E
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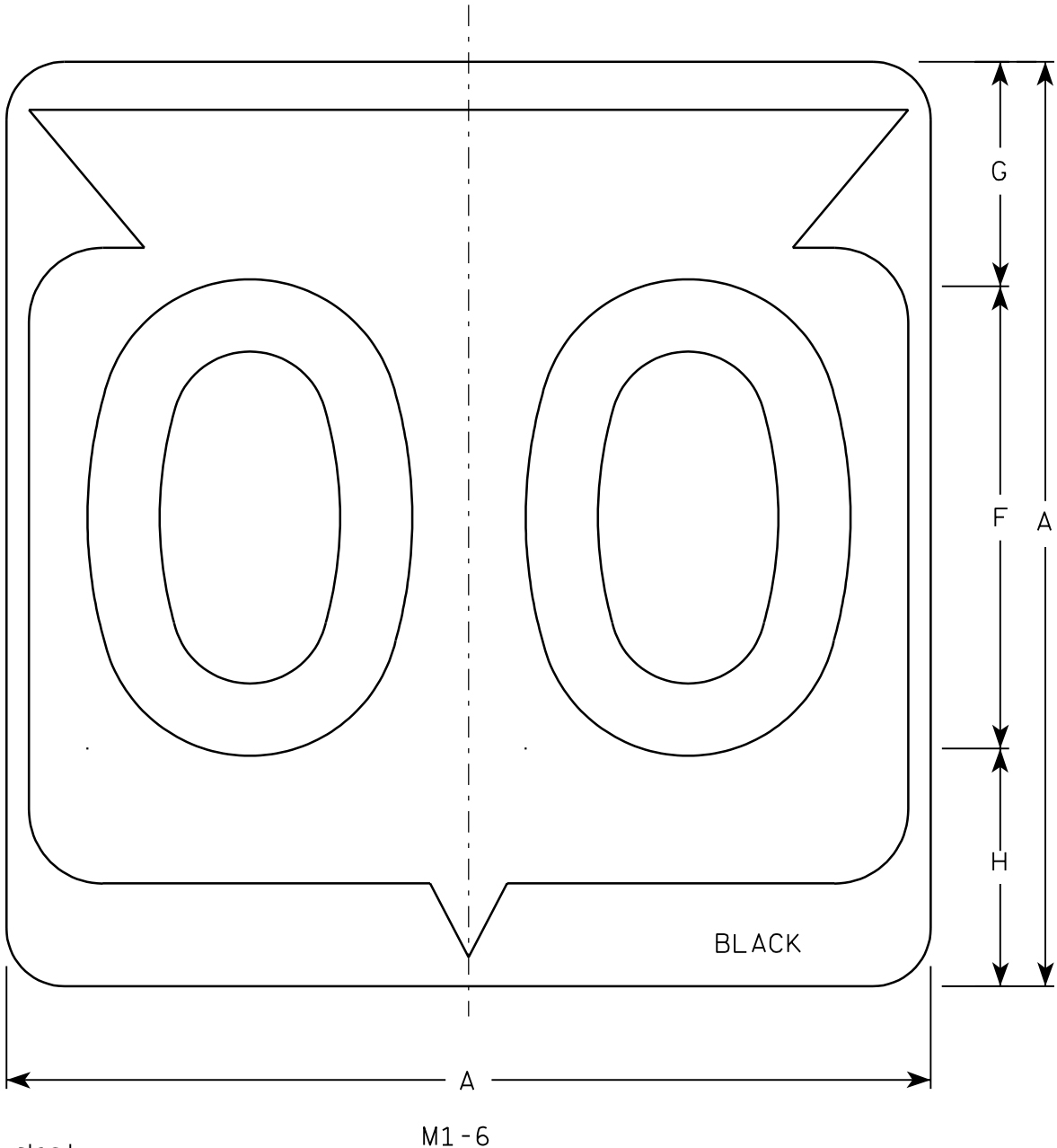
CTH MARKER
M1-5A FOR ASSEMBLIES

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 ²
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

PROJECT NO:

HWY:

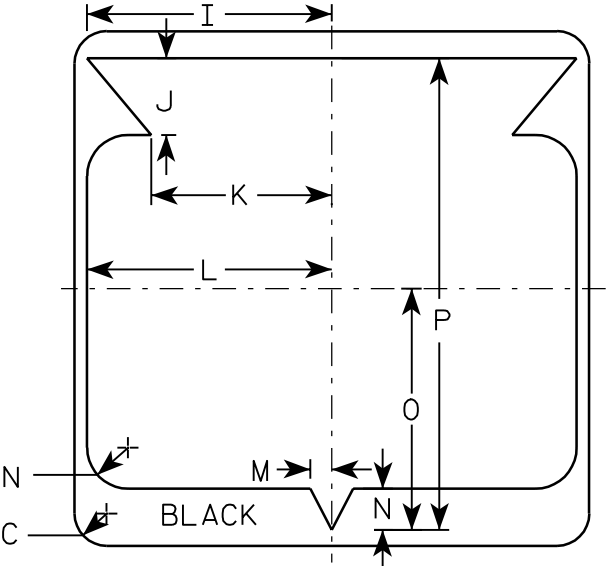
COUNTY:

SHEET NO: 70

E

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

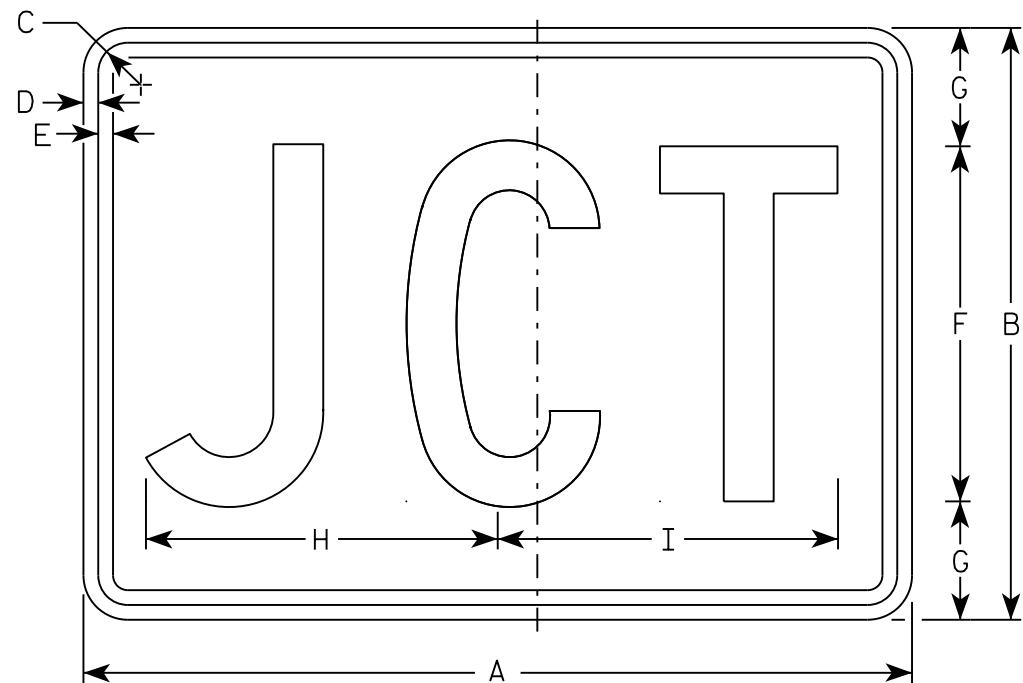
WISCONSIN DEPT OF TRANSPORTATION

APPROVED

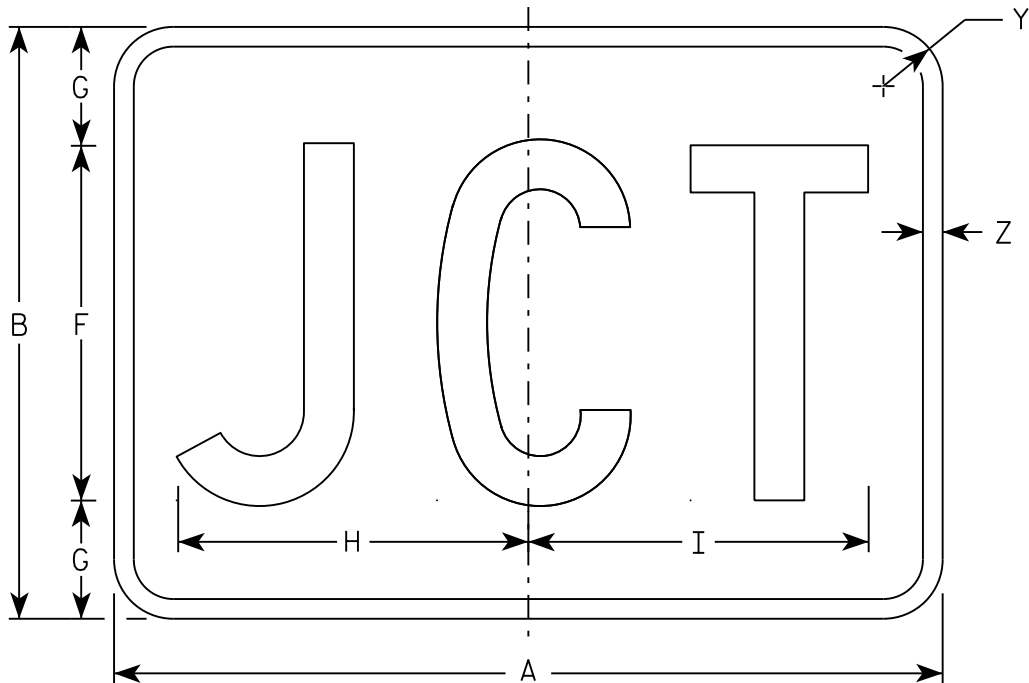
Chester J. Spang
for State Traffic Engineer

DATE 3/20/02

PLATE NO. M1-6.9



M2-1
MM2-1
MP2-1



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

NOTES

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

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

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

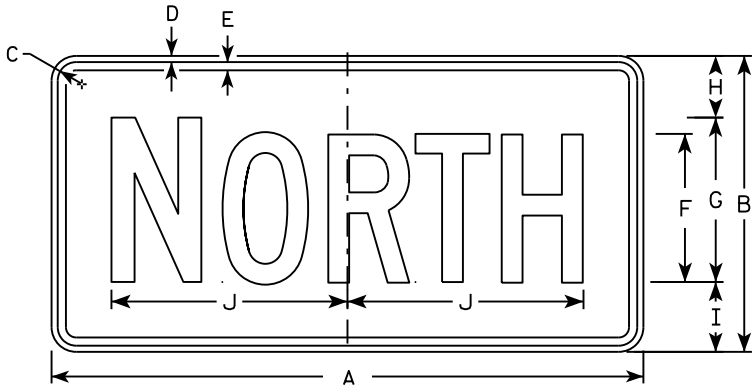
Matthew R. Rauch

For State Traffic Engineer

DATE 10/15/15

PLATE 71

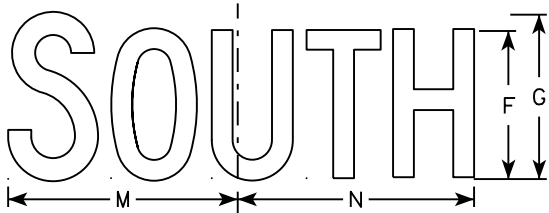
'2-1.12



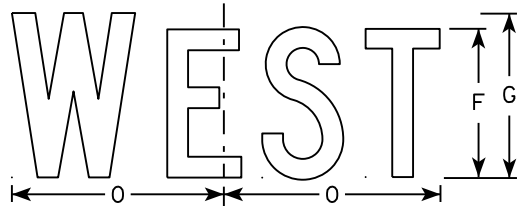
M3-1
MM3-1
MP3-1



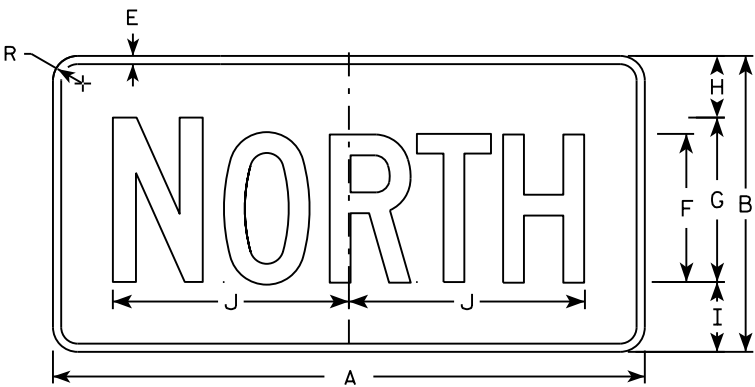
M3-2
MM3-2
MP3-2



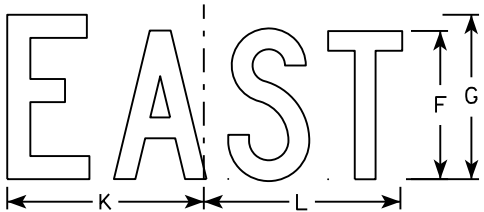
M3-3
MM3-3
MP3-3



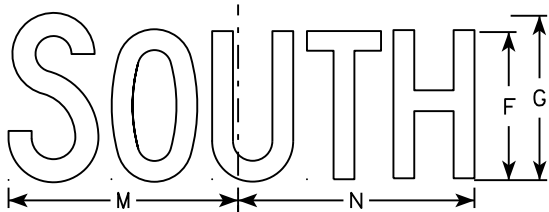
M3-4
MM3-4
MP3-4



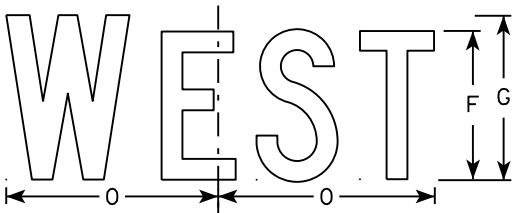
MB3-1
MK3-1
MN3-1



MB3-2
MK3-2
MN3-2



MB3-3
MK3-3
MN3-3



MB3-4
MK3-4
MN3-4

NOTES

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

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

STANDARD SIGNS
M3-1 thru M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. 72 M3-1.14

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:

Background - See Note 5

Message - See note 5
3. Message Series - B
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. M4-1

Background - White

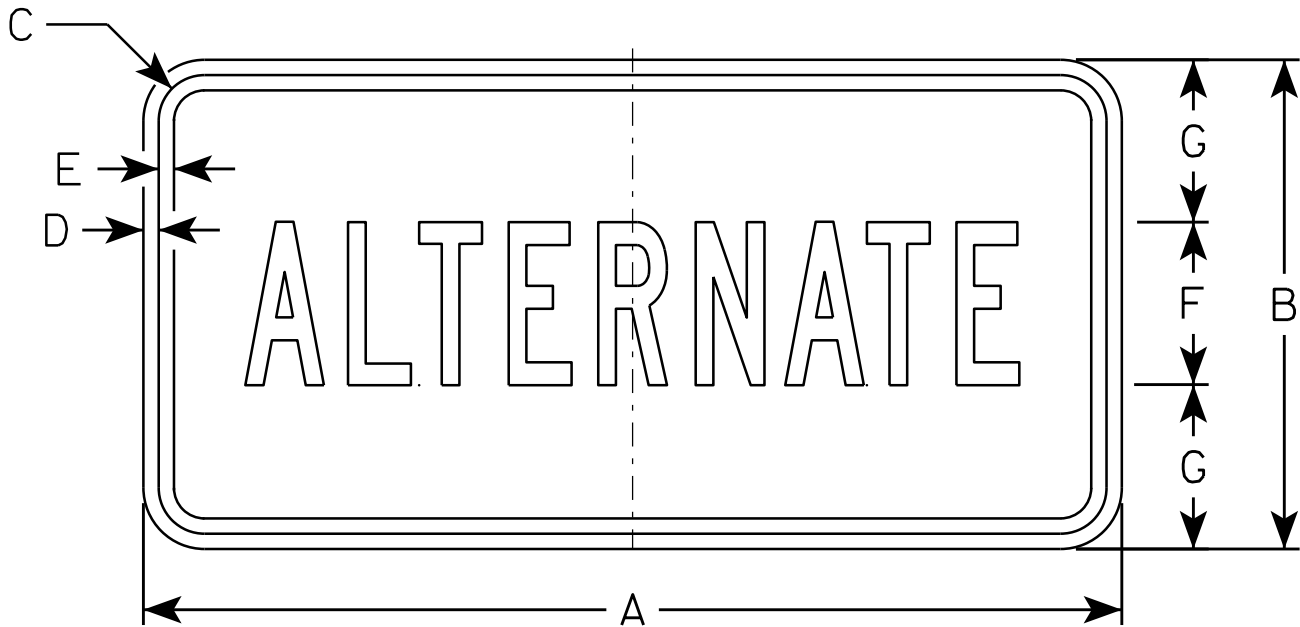
Message - Black
- MB4-1

Background - Blue

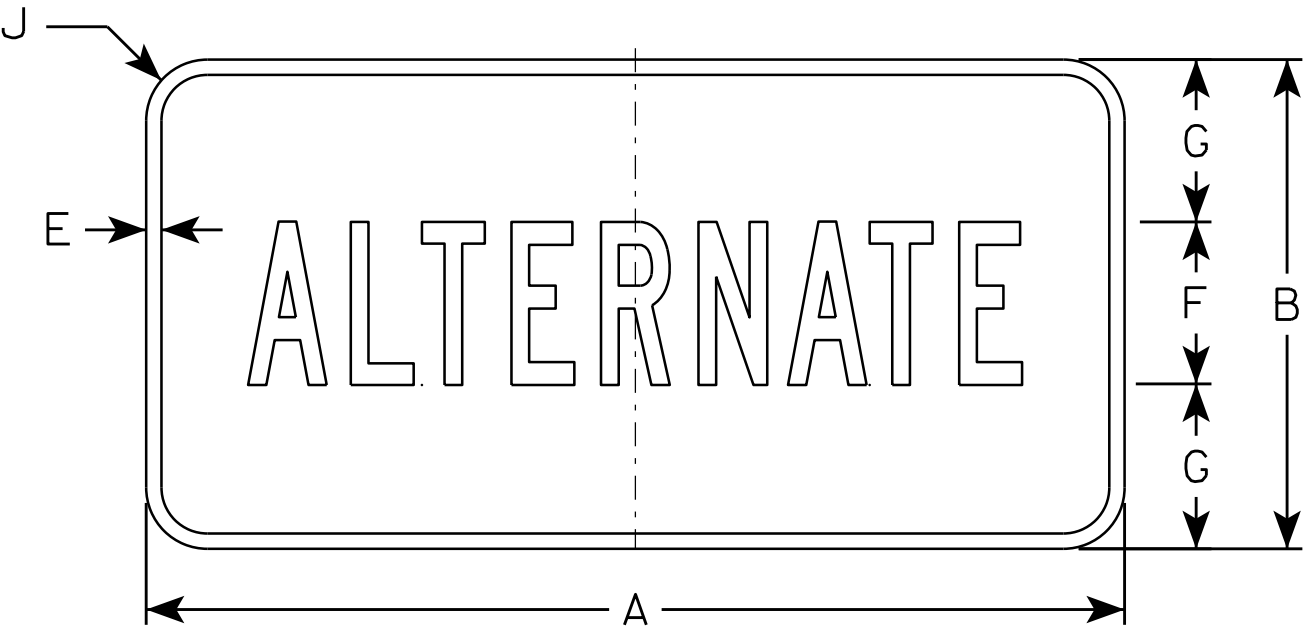
Message - White
- M04-1

Background - Orange - Type F

Message - Black



M4 - 1
M04 - 1



MB4 - 1

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																											
2	24	12	1 1/8	3/8	3/8	4	4	9 3/4	9 1/2	1 1/2																	2.00
3	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
4	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
5	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5

STANDARD SIGN

M4 - 1

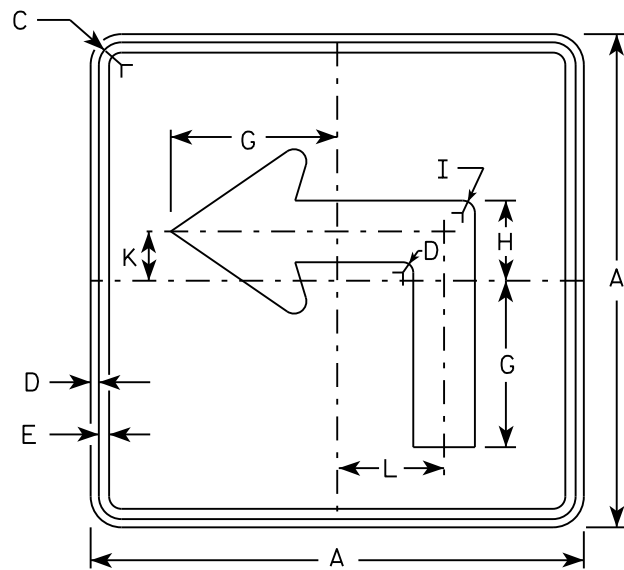
WISCONSIN DEPT OF TRANSPORTATION

APPROVED

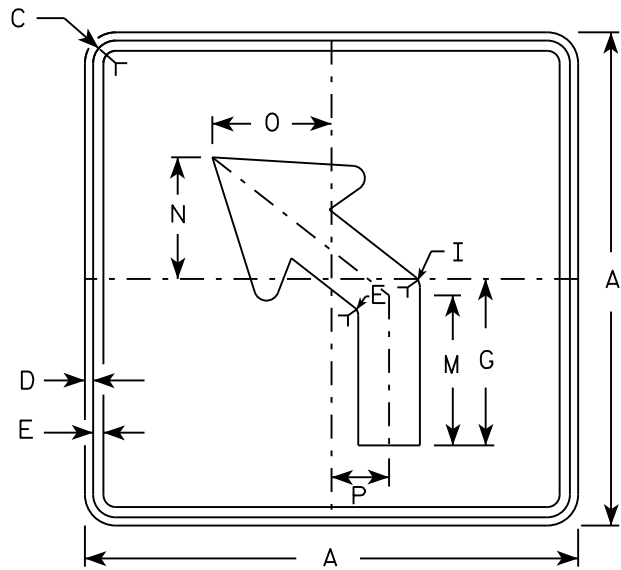
Matthew R. Rauch

for State Traffic Engineer

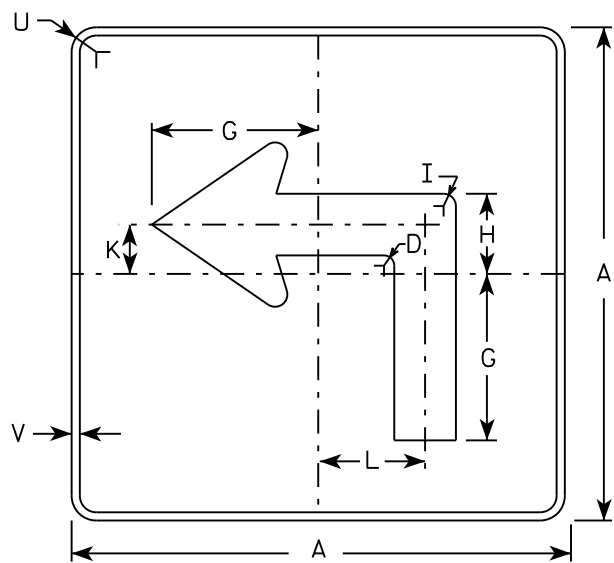
DATE 6/30/14PLATE 73'14-1.8



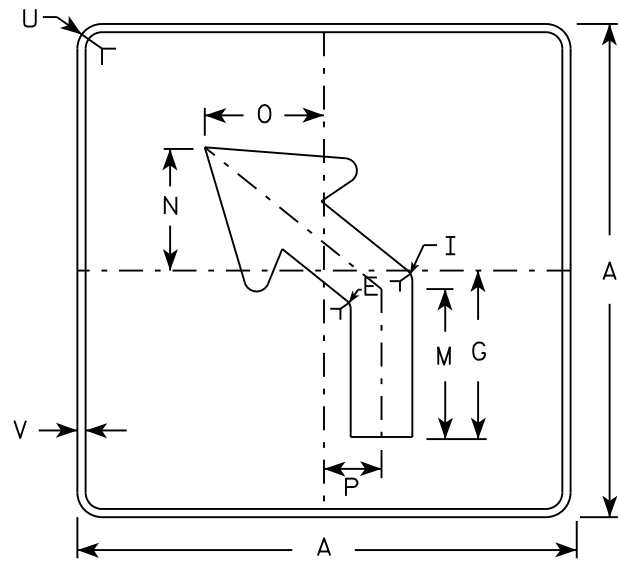
M5-1L
MM5-1L
M05-1L
MP5-1L



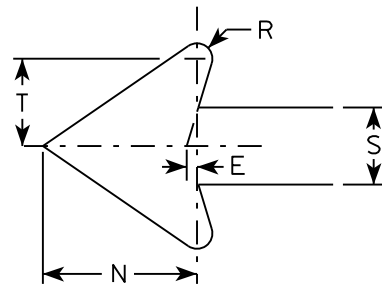
M5-2L
MM5-2L
M05-2L
MP5-2L



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



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



NOTES

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

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

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

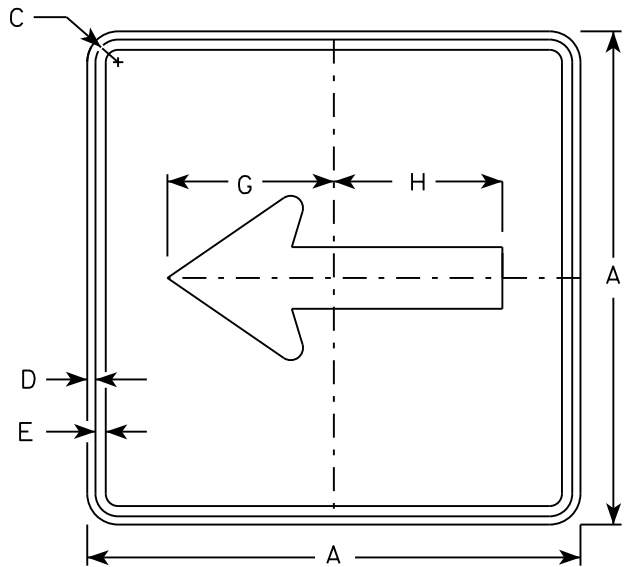
E

STANDARD SIGN
M5-1 & M5-2

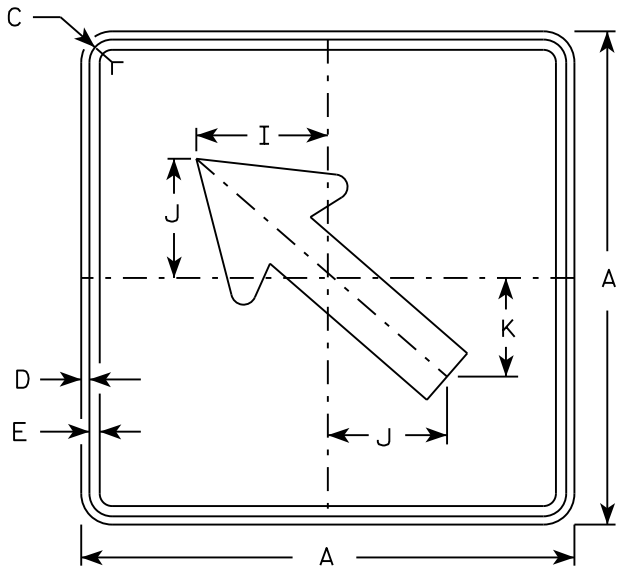
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

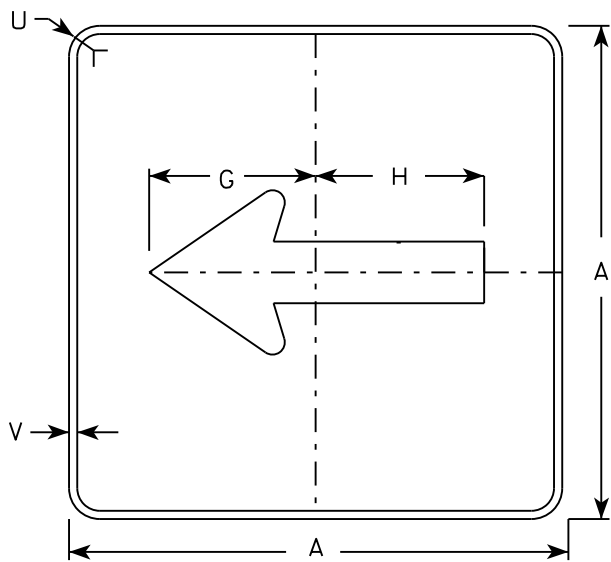
DATE 10/15/15 PLATE 74 M5-1.13



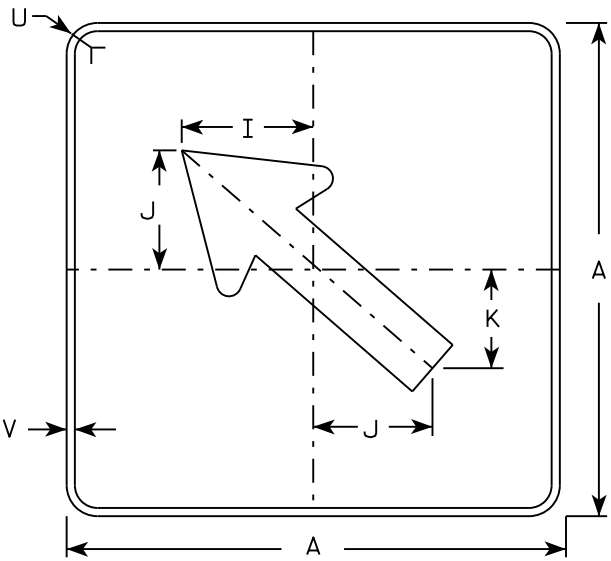
M6 - 1
MM6 - 1
M06 - 1
MP6 - 1



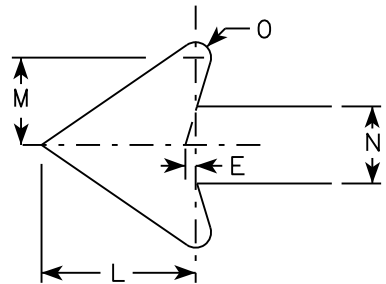
M6 - 2
MM6 - 2
M06 - 2
MP6 - 2



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



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



NOTES

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

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

PROJECT NO:

HWY:

COUNTY:

DATE 10/15/15

PLAT 75

SHEET NO:

E

STANDARD SIGN
M6 - 1 & M6 - 2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

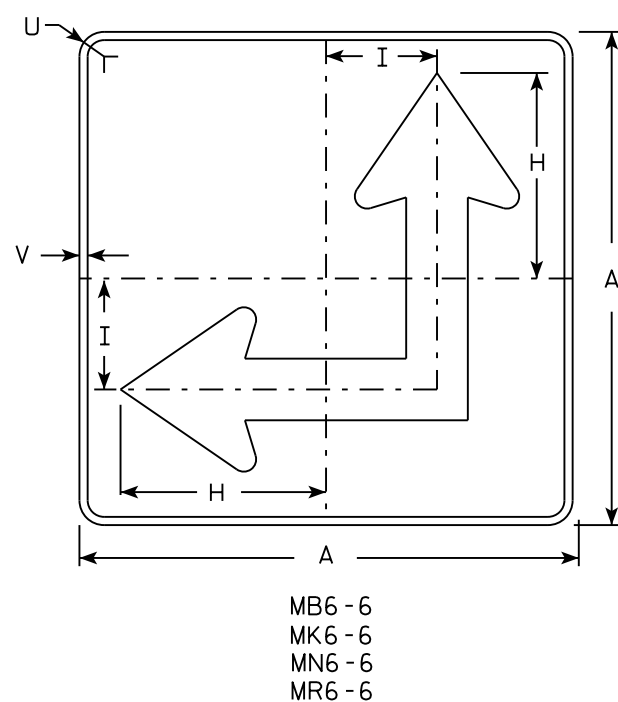
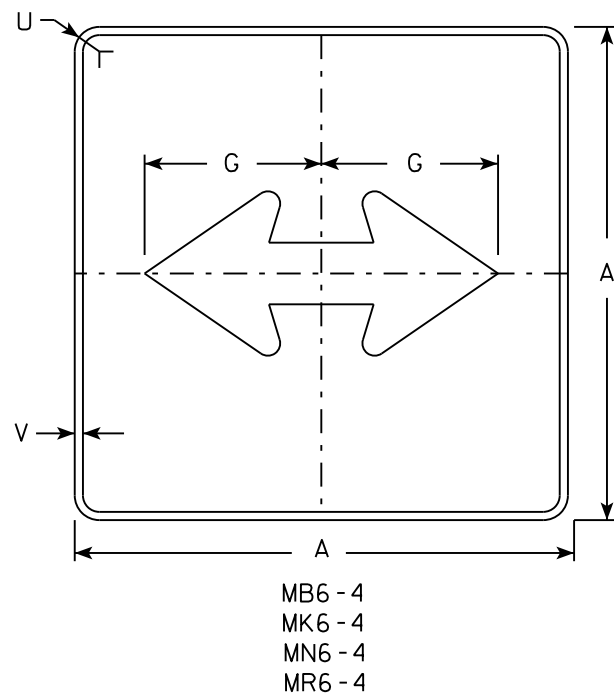
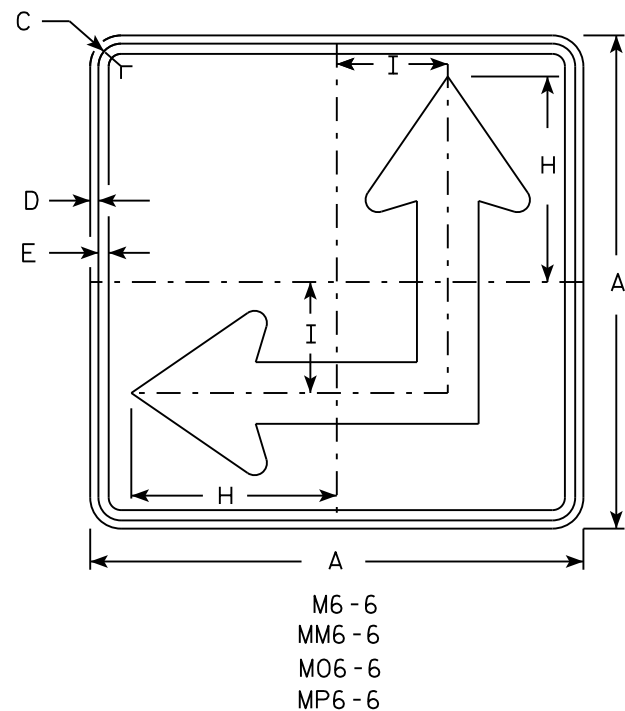
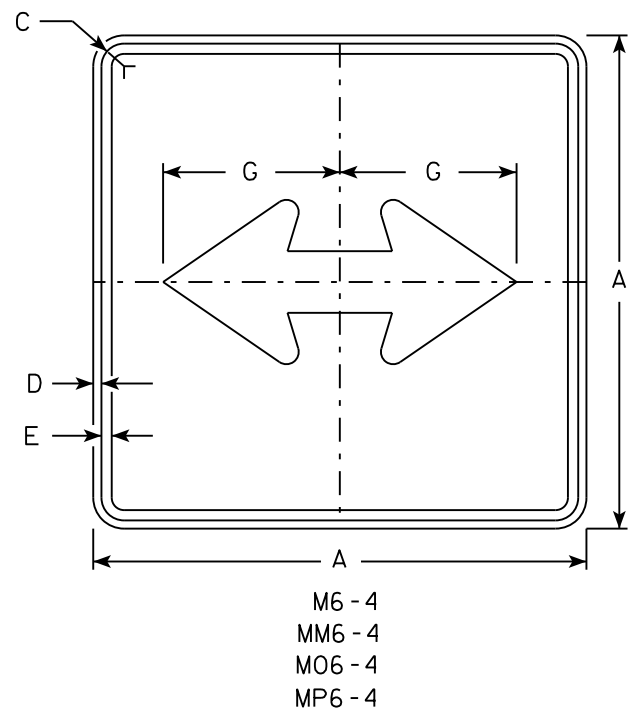
APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15

PLAT 75

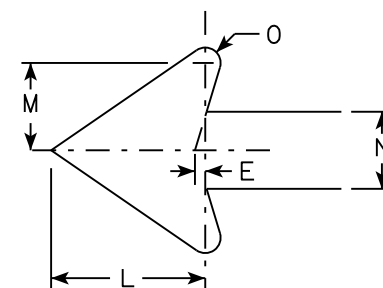
SHEET NO:

E



NOTES

- Signs are Type II - Type H except as Shown
- Color:
Background - See Note 4
Message - See Note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M6-4 and M6-6 Background - White
Message - Black
MB6-4 and MB6-6 Background - Blue
Message - White
MK6-4 and MK6-6 Background - Green
Message - White
MM6-4 and MM6-6 Background - White
Message - Green
MN6-4 and MN6-6 Background - Brown
Message - White
M06-4 and M06-6 Background - Orange - Type F Reflective
Message - Black
MP6-4 and MP6-6 Background - White
Message - Blue
MR6-4 and MR6-6 Background - Brown
Message - Yellow
- M6-6R same as M6-6L except arrow points ahead and right.



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

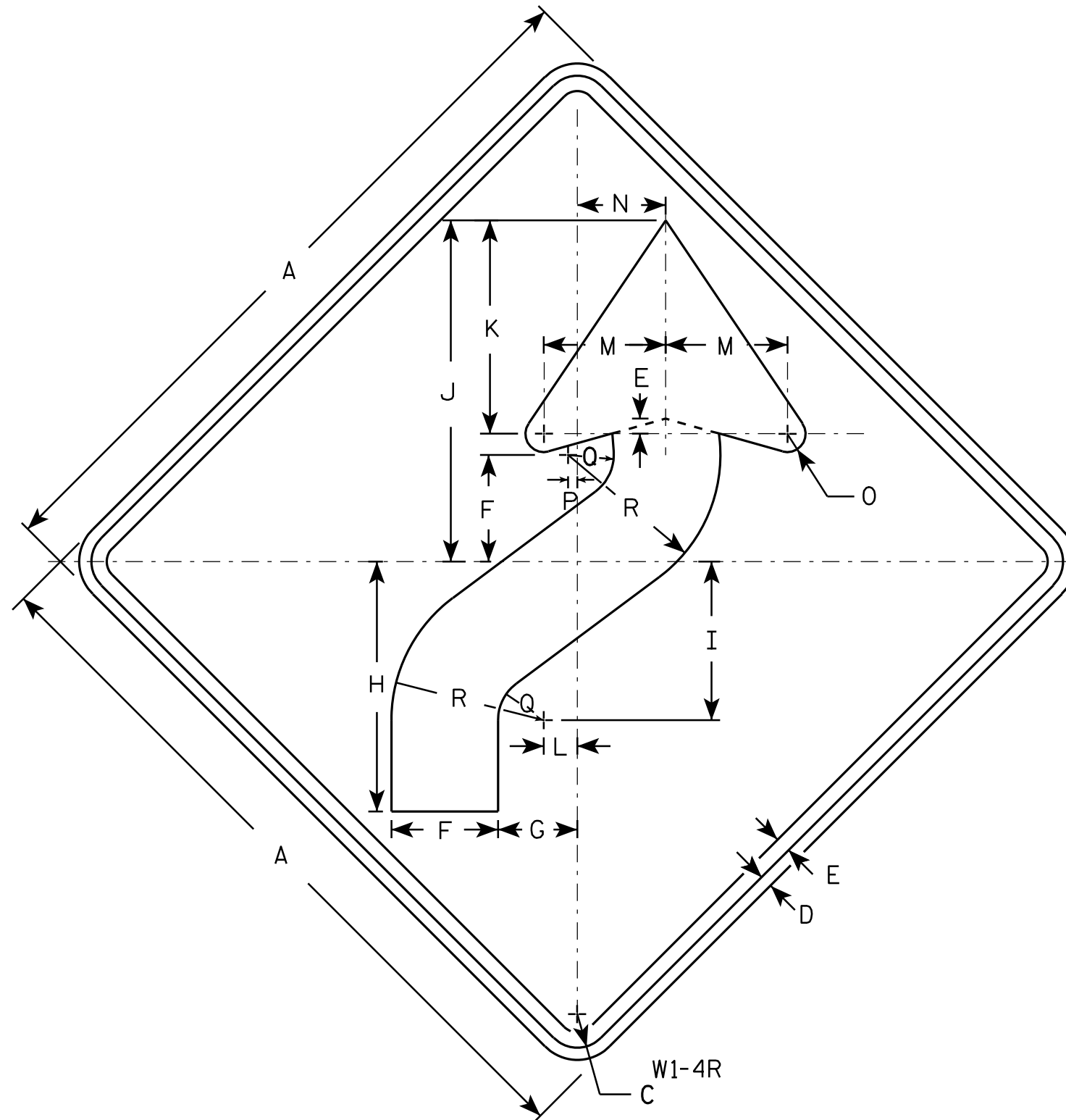
PROJECT NO:	HWY:	COUNTY:	PLAT NO:	SHEET NO:	E
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STANDARD SIGN
M6 - 4 & M6 - 6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 10/15/15 PLAT 76 M6-4.10



NOTES

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

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

STANDARD SIGN

W1 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

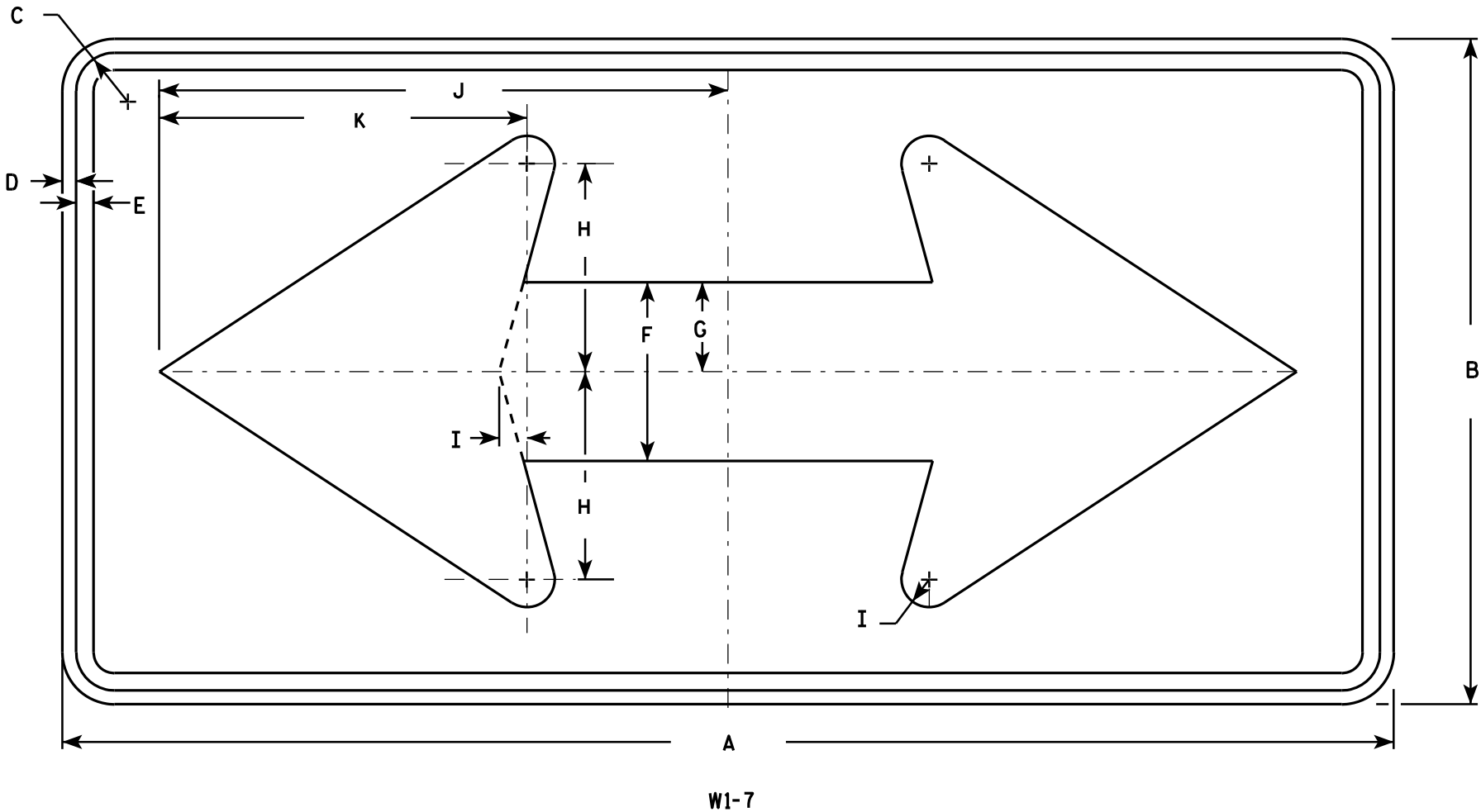
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 78

E



NOTES

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

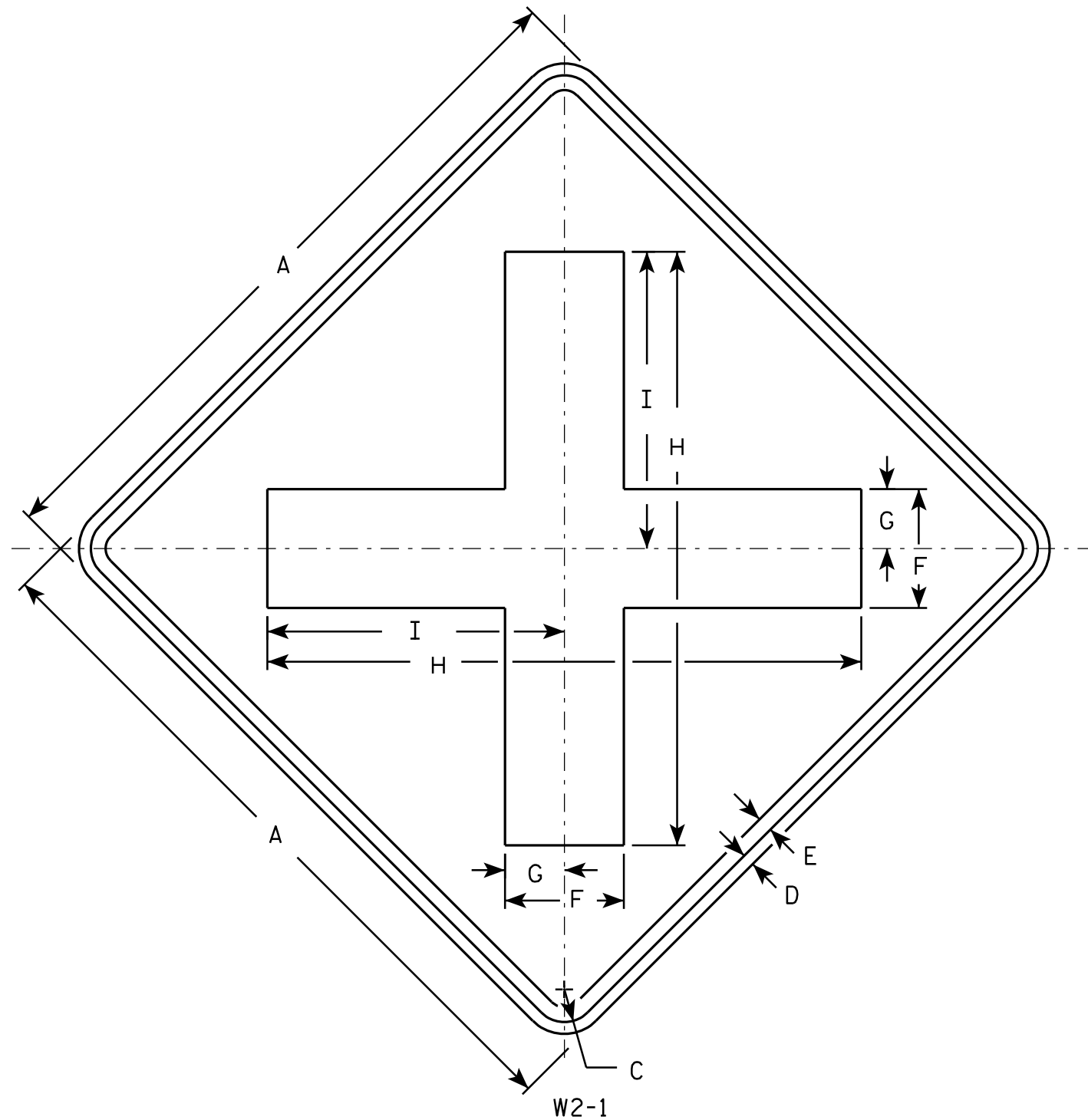
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

STANDARD SIGN
W1 - 7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7



NOTES

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

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

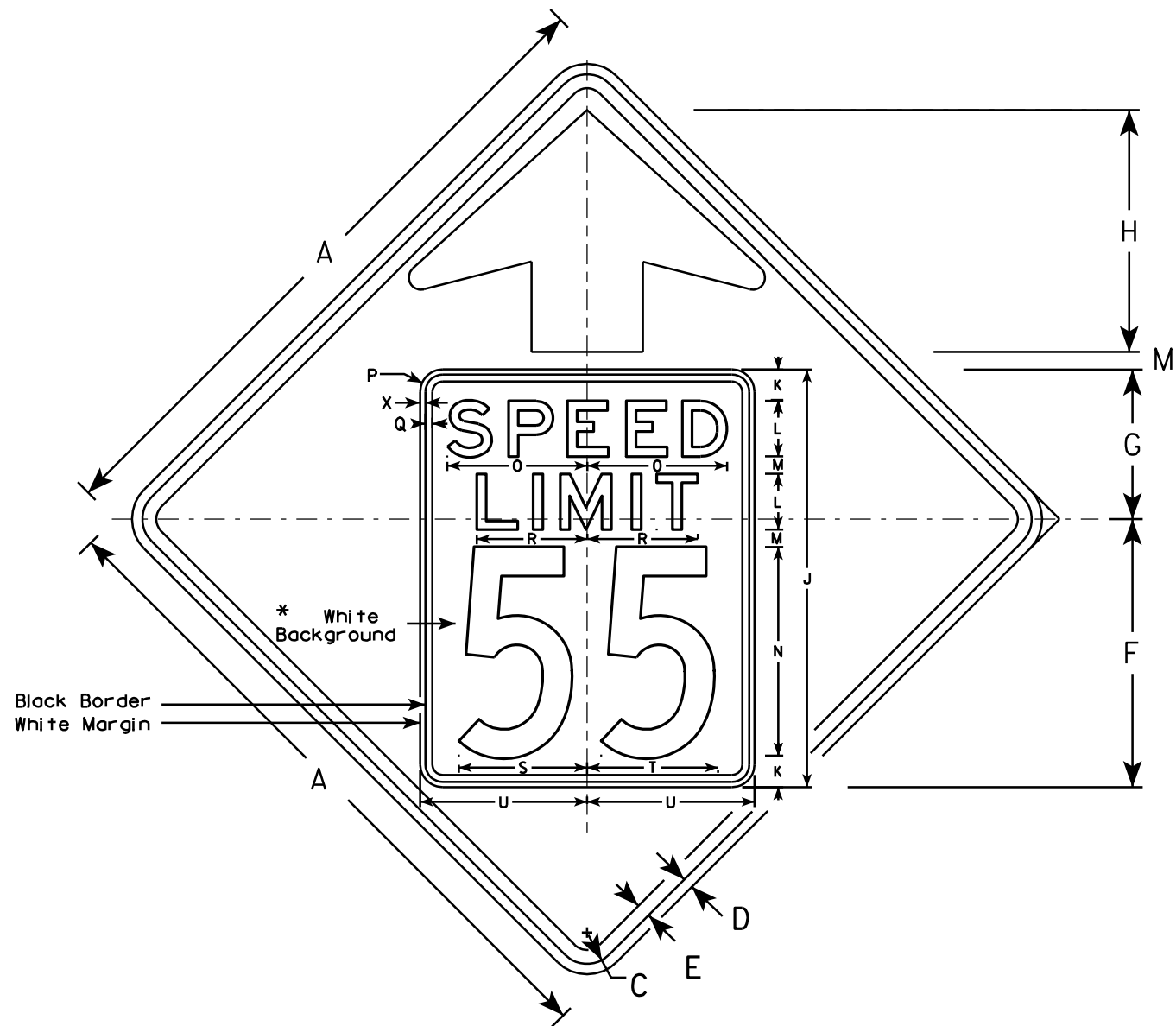
STANDARD SIGN W2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-1.9

PROJECT NO: HWY: COUNTY: SHEET NO: 80 E

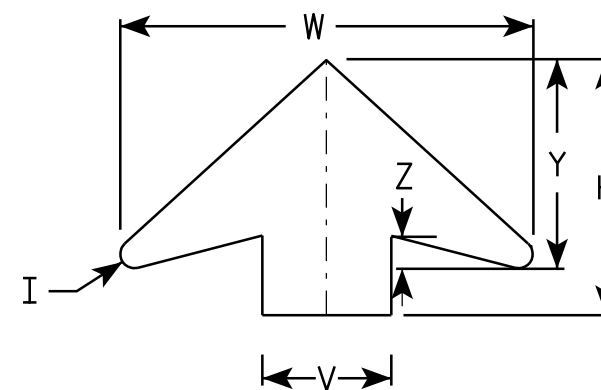


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
Background - YELLOW*
Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5⁄8	5⁄8	3⁄4	14 1⁄2	9 1⁄2	11 1⁄2	5⁄8	24	2	3	1	12	7 1⁄8	1 1⁄2	3⁄8	5 3⁄4	7 1⁄4	7 1⁄8	9	6	19 1⁄4	3⁄8	9 3⁄4	1 5⁄8	9.0
2M	36		1 5⁄8	5⁄8	3⁄4	14 1⁄2	9 1⁄2	11 1⁄2	5⁄8	24	2	3	1	12	7 1⁄8	1 1⁄2	3⁄8	5 3⁄4	7 1⁄4	7 1⁄8	9	6	19 1⁄4	3⁄8	9 3⁄4	1 5⁄8	9.0
3	36		1 5⁄8	5⁄8	3⁄4	14 1⁄2	9 1⁄2	11 1⁄2	5⁄8	24	2	3	1	12	7 1⁄8	1 1⁄2	3⁄8	5 3⁄4	7 1⁄4	7 1⁄8	9	6	19 1⁄4	3⁄8	9 3⁄4	1 5⁄8	9.0
4	48		2 1⁄4	3⁄4	1	19 1⁄4	10 3⁄4	17 3⁄8	7⁄8	30	2 1⁄4	4	1 1⁄4	15	10	1 5⁄8	1⁄2	8	9 1⁄4	9 3⁄8	12	8	25 5⁄8	3⁄8	13	2	16.0
5	48		2 1⁄4	3⁄4	1	19 1⁄4	10 3⁄4	17 3⁄8	7⁄8	30	2 1⁄4	4	1 1⁄4	15	10	1 5⁄8	1⁄2	8	9 1⁄4	9 3⁄8	12	8	25 5⁄8	3⁄8	13	2	16.0

STANDARD SIGN

W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

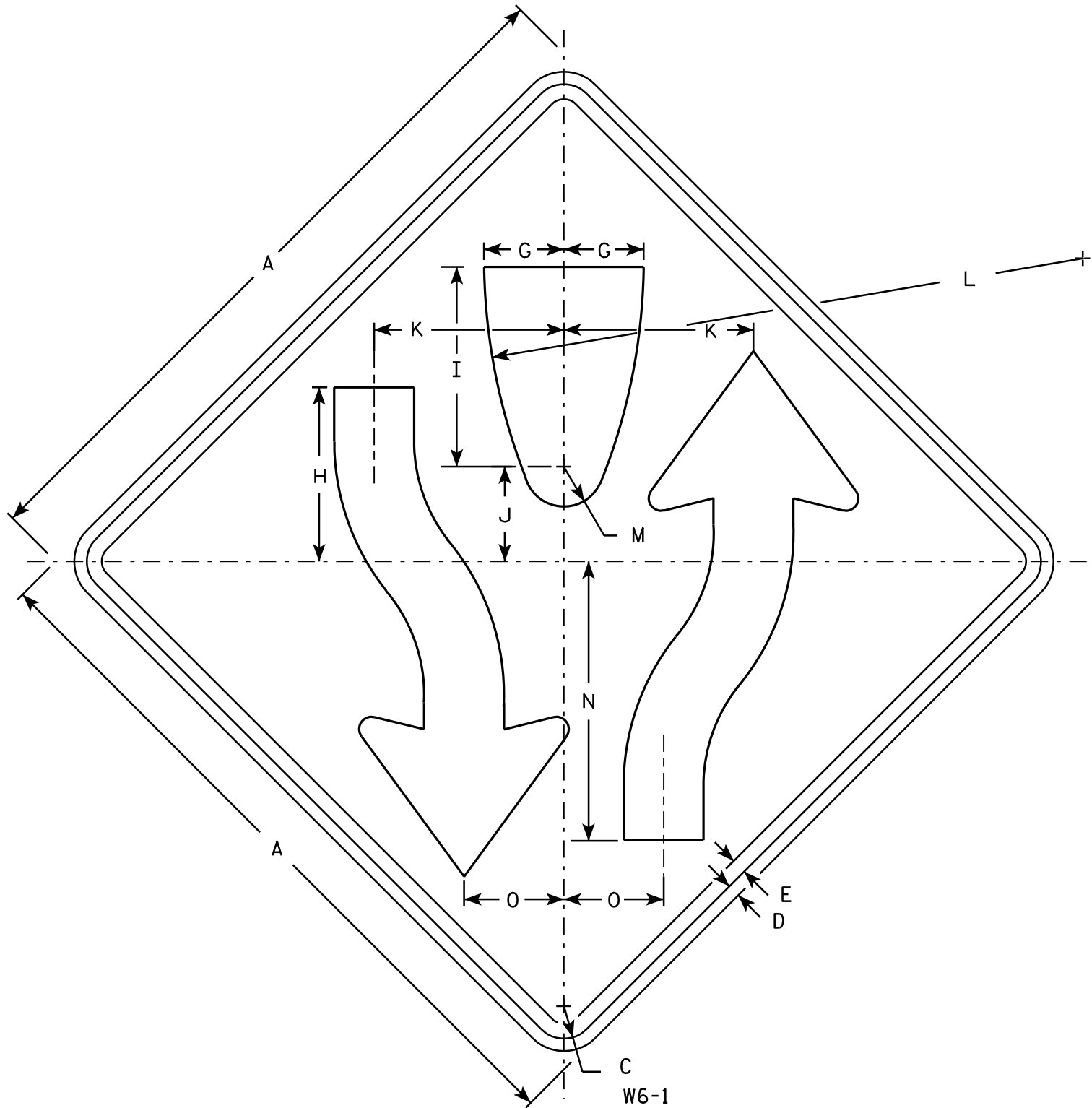
DATE 5/29/12

PLATE NO. W3-5.5

PROJECT NO:

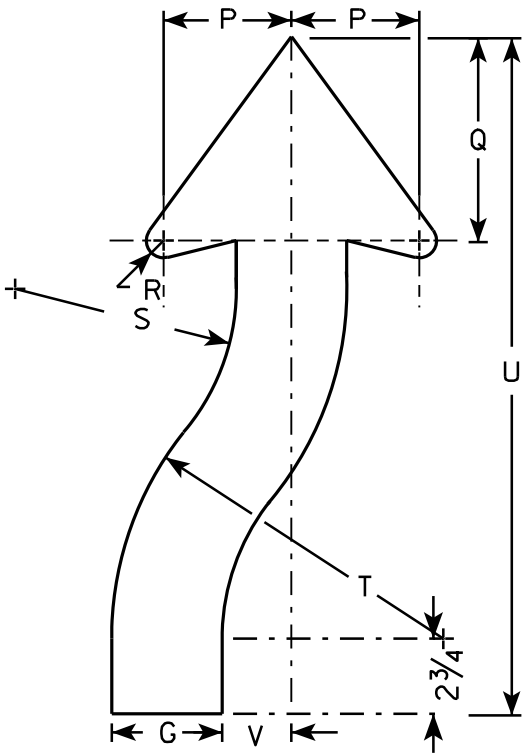
SHEET NO: 81

E



NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Yellow
Message - Black
- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

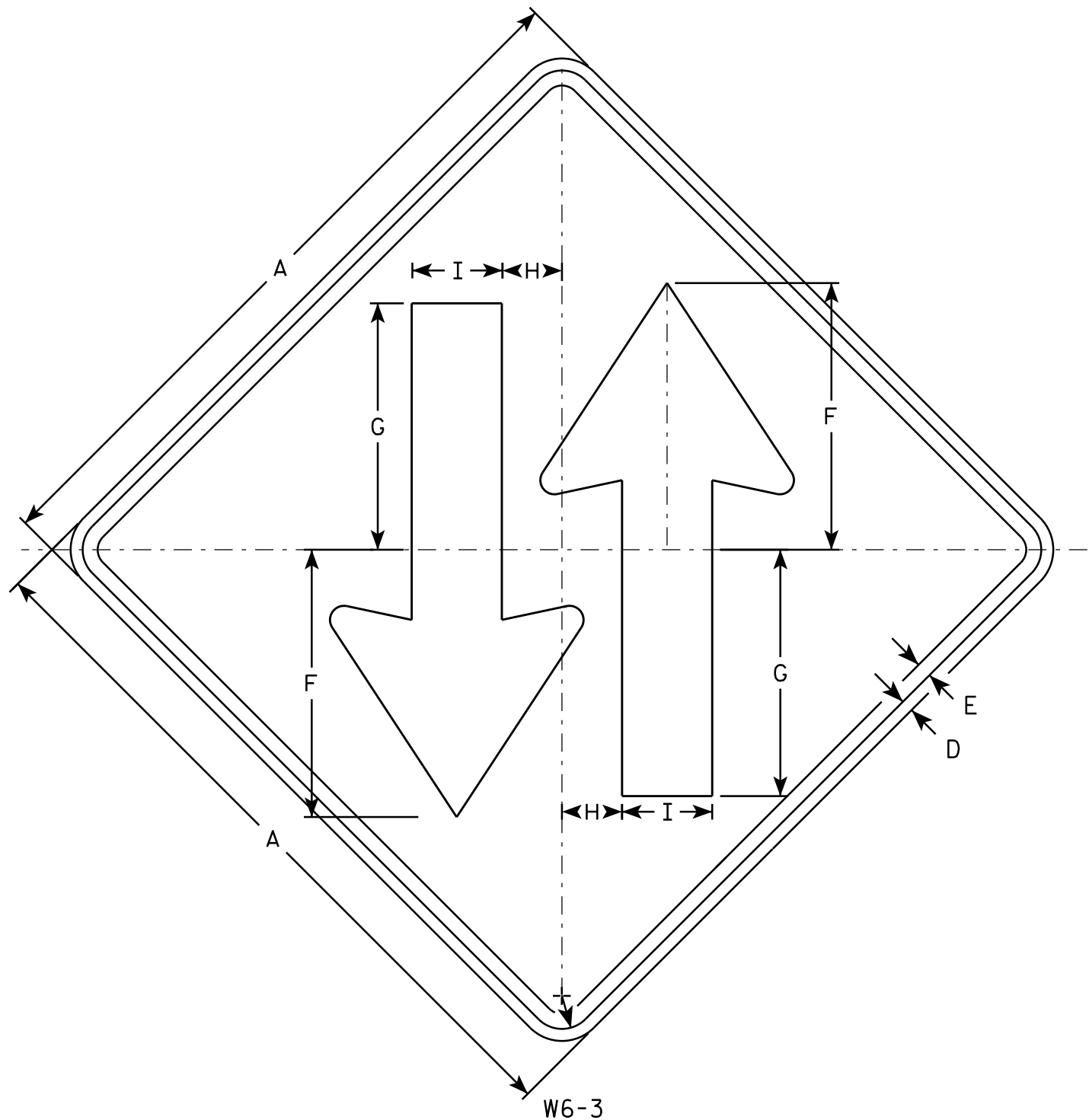
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

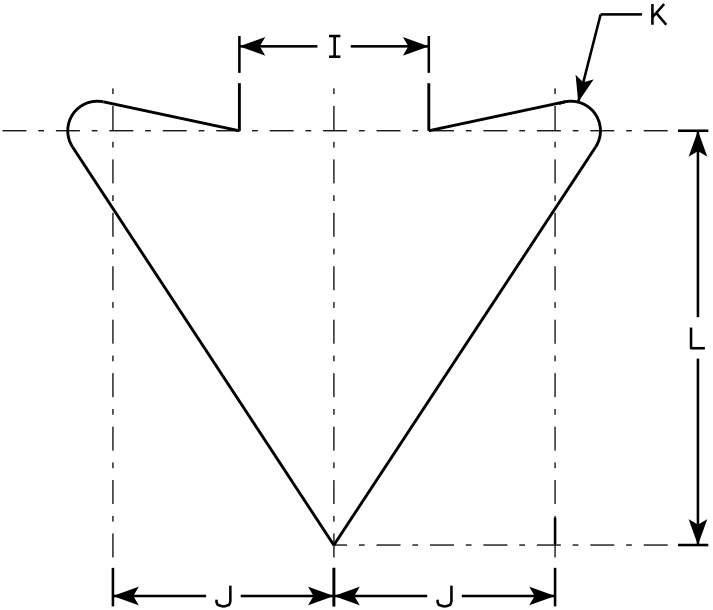
DATE 03/12/13 PLATE NO. W6-1.14



W6-3

NOTES

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



ARROW DETAIL

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

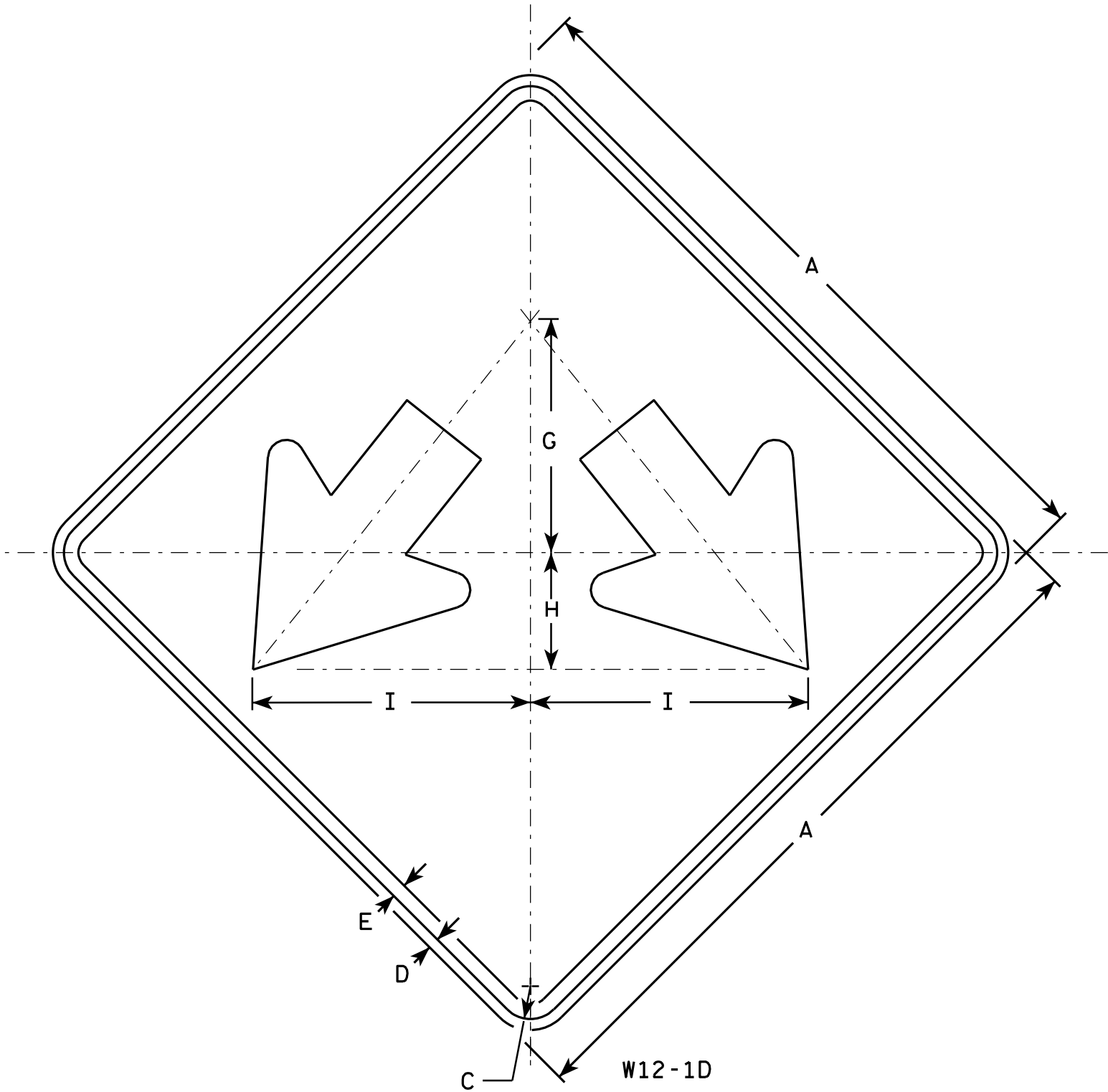
STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

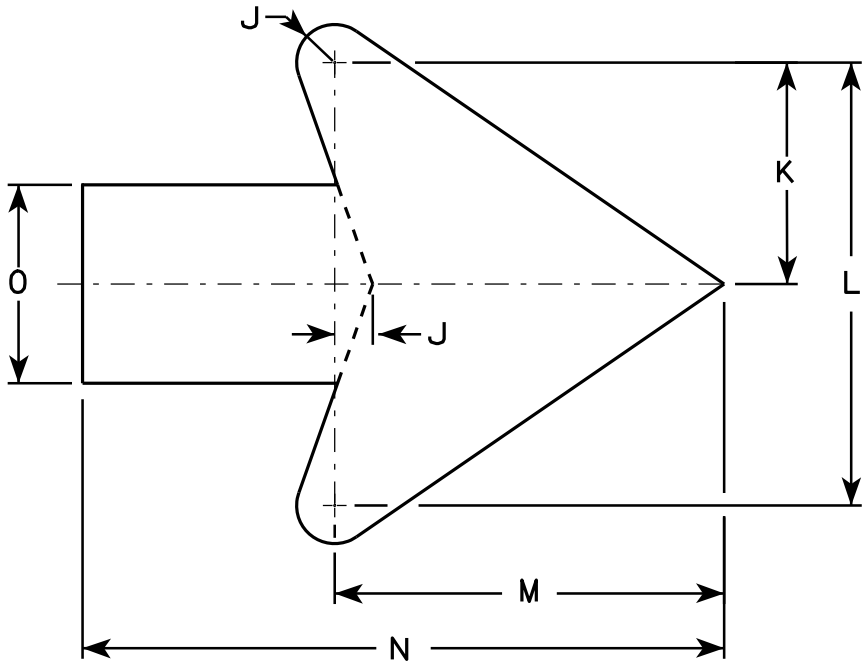
DATE 3/10/16 PLAT 83 W6-3.11

7



NOTES

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

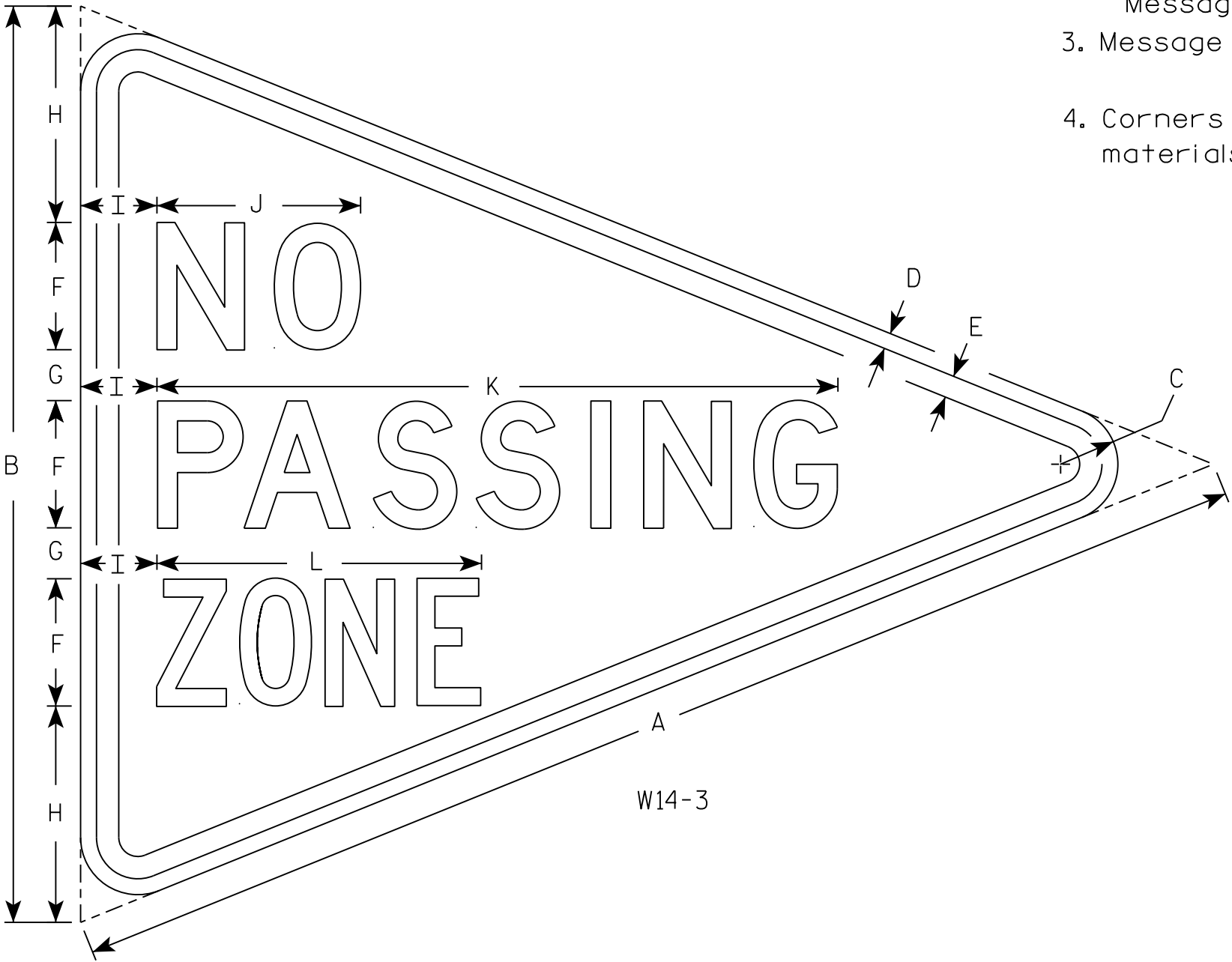
APPROVED
Matthew R. Rauch
for State Traffic Engineer

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

7

NOTES

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



7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 85

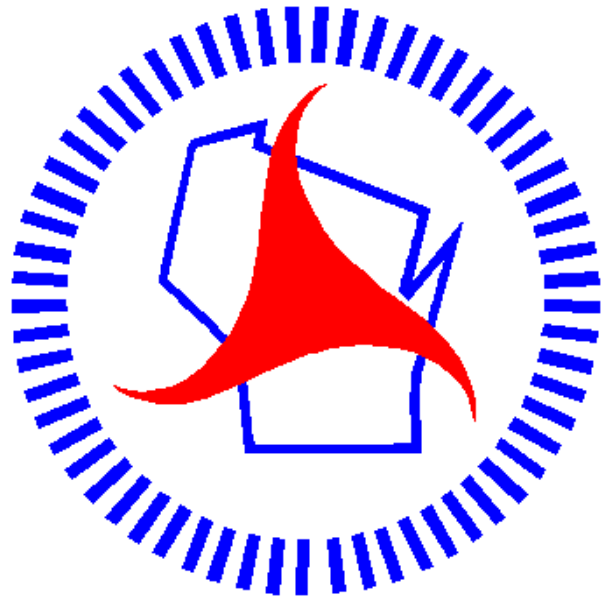
E

STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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



Wisconsin Department of Transportation

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