

MAD

MAY 2022

PROJECT ID:

5897-00-60

COUNTY:

SAUK

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 = 50



07

DESIGN DESIGNATION

A.A.D.T.	(2022)	=	4,880
A.A.D.T.	(2042)	=	7,250
D.H.V.		=	653
D.D.		=	60/40
T.		=	10% (ASSUMED)
DESIGN SPEED		=	45 MPH (STA. 10+00 - STA. 22+79)
ESALS		=	55 MPH (STA. 22+79 - STA. 601+19.94)
		=	N/A

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

REEDSBURG - WISCONSIN DELLS

GOLF COURSE ROAD TO OLD 12

CTH H

SAUK COUNTY

STATE PROJECT NUMBER

5897-00-60

STATE PROJECT

5897-00-60

FEDERAL PROJECT

PROJECT

WISC 2022381

CONTRACT

1

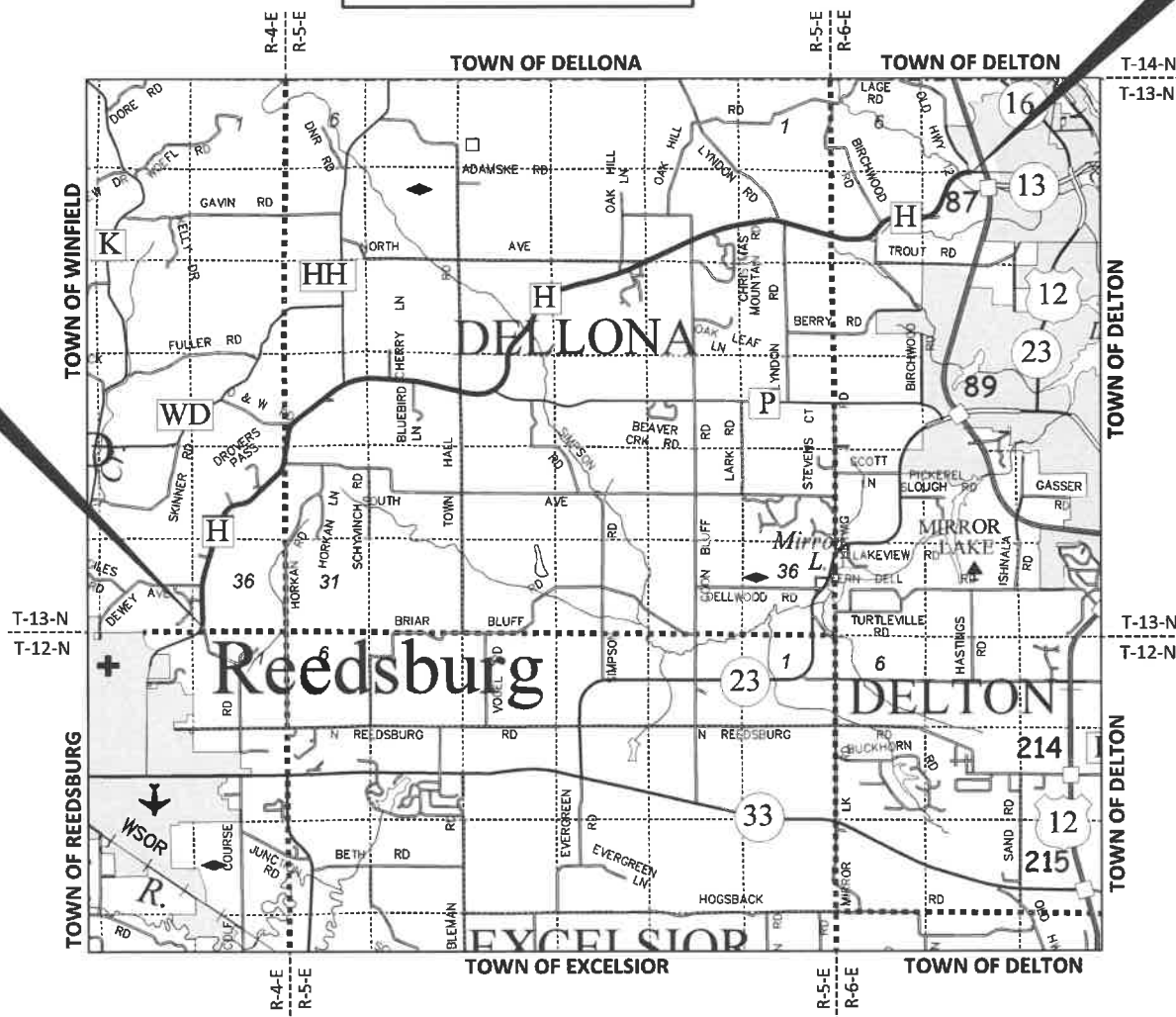
END PROJECT

STA. 601+19.78

BEGIN PROJECT

STA. 1+50

Y = 268,469.34  
X = 589,708.07



LAYOUT  
SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 11.358 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, SAUK COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCE MAY BE USED AS GROUND DISTANCES.

ELEVATION SHOWN ON THIS PLAN ARE REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD (2012).

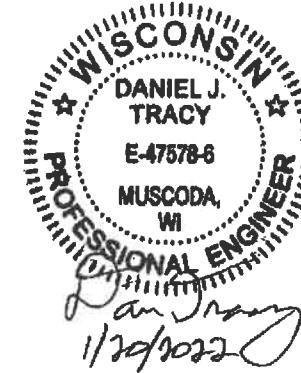
ACCEPTED FOR

COUNTY of SAUK

1/24/22  
(Date) (Signature)  
(Highway Commissioner)

ORIGINAL PLANS PREPARED BY

**JEWELL**  
associates engineers, inc  
Engineers - Architects - Surveyors



STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	JEWELL ASSOCIATES ENGINEERS, INC.
Designer	JEWELL ASSOCIATES ENGINEERS, INC.
Project Manager	LORRAINE BETZEL, P.E.
Regional Examiner	SW REGION
Regional Supervisor	JOHN STOLZMAN, P.E.

APPROVED FOR THE DEPARTMENT

DATE: 1/24/2022

(Signature)  
Lorraine Betzel

E

2

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

CURVE DATA IS BASED ON THE ARC DEFINITION.

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

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

EXISTING SIGNS NOT SHOWN ON PLAN ARE TO REMAIN. PRIOR TO PLACEMENT OF PERMANENT SIGNS THE ENGINEER IN THE FIELD WILL VERIFY PERMANENT SIGNING LOCATION. IF THERE IS A CONFLICT BETWEEN THE EXISTING SIGN AND PERMANENT SIGN THE ENGINEER IN THE FIELD WILL DETERMINE THE LOCATION OF THE PROPOSED PERMANENT SIGN PRIOR TO PLACEMENT.

CONTACTS

SAUK COUNTY HIGHWAY DEPARTMENT:

PATRICK GAVINSKI, COMMISSIONER  
620 LINN STREET  
WEST BARABOO, WI 53913  
PH: (608) 355-4855  
EMAIL: patrick.gavinski@saukcountywi.gov

DESIGN CONSULTANT:

JEWELL ASSOCIATES ENGINEERS, INC.  
560 SUNRISE DRIVE  
SPRING GREEN, WI 53588  
ATTN: DAN TRACY, P.E.  
PH: (608) 459-6052  
CELL: (608) 604-6905  
EMAIL: dan.tracy@jewellassoc.com

WISCONSIN DEPARTMENT OF TRANSPORTATION:

WDNR LIAISON:  
STATE OF WISCONSIN  
DNR SOUTH CENTREAL REGION HQ  
3911 FISH HATCHERY ROAD  
FITCHBURG, WI 53711  
ATTN: ANDY BARTA  
PH: (608) 235-2955  
EMAIL: andrew.barta@wisconsin.gov

UTILITIES

ELECTRICITY

ALLIANT ENERGY  
ATTN: MARY MONTGOMERY  
200 FIRST STREET  
CEDAR RAPIDS, IA 52401  
PH: (319) 786-4768  
EMAIL: MaryMontgomery@alliantenergy.com

COMMUNICATION LINE

FRONTIER COMMUNICATIONS  
ATTN: RUSS RYAN  
118 DIVISION STREET  
PLYMOUTH, WI 53073  
PH: (920) 583-3275  
EMAIL: Russell.w.ryan@ftr.com

AMERICAN TRANSMISSION COMPANY

REEDSBURG UTILITY COMMISSION

ATTN: TONY MARCINIAK  
P.O. BOX 47  
WAUKESHA, WI 53187  
PH: (262) 506-6814  
EMAIL: tmarciniak@atcllc.com

ATTN: KEN LAS  
501 UTILITY COURT  
REEDSBURG, WI 53959  
PH: (608) 768-6450  
EMAIL: klas@rucls.net

REEDSBURG UTILITY COMMISSION

GAS/PETROLEUM

ATTN: DENNIS HORKAN  
P.O. BOX 230  
501 UTILITY COURT  
REEDSBURG, WI 53959  
PH: (608) 768-6426  
CELL: (608) 434-1123  
EMAIL: dhorkan@rucls.net

ALLIANT ENERGY  
ATTN: MARY MONTGOMERY  
200 FIRST STREET  
CEDAR RAPIDS, IA 52401  
PH: (319) 786-4768  
EMAIL: MaryMontgomery@alliantenergy.com

LIST OF STANDARD ABBREVIATIONS

ABUT	Abutment	INV	Invert	RDWY	Roadway
AC	Acre	IP	Iron Pipe or Pin	SALV	Salvaged
AGG	Aggregate	IRS	Iron Rod Set	SAN S	Sanitary Sewer
AH	Ahead	JT	Joint	SEC	Section
<	Angle	JCT	Junction	SHLDR	Shoulder
ASPH	Asphaltic	LHF	Left-Hand Forward	SHR	Shrinkage
AVG	Average	L	Length of Curve	SW	Sidewalk
ADT	Average Daily Traffic	LIN FT	Linear Foot	S	South
BAD	Base Aggregate Dense	or LF		SQ	Square
BK	Back	LC	Long Chord of Curve	SF or SQ FT	Square Feet
BF	Back Face	MH	Manhole	SV or SQ YD	Square Yard
BM	Bench Mark	MB	Mailbox	STD	Standard
BR	Bridge	ML or M/L	Match Line	SDD	Standard Detail Drawings
C or C/L	Center Line	N	North	STH	State Trunk Highways
CC	Center to Center	Y	North Grid Coordinate	STA	Station
C.E.	Commercial Entrance	OD	Outside Diameter	SS	Storm Sewer
CTH	County Trunk Highway	PLE	Permanent Limited Easement	SG	Subgrade
CR	Creek	PT	Point	SE	Superelevation
CR	Crushed	PC	Point of Curvature	SL or S/L	Survey Line
CY or CU YD	Cubic Yard	PI	Point of Intersection	SV	Septic Vent
CP	Culvert Pipe	PRC	Point of Reverse Curvature	T	Tangent
C & G	Curb and Gutter			TEL	Telephone
D	Degree of Curve	PT	Point of Tangency	TEMP	Temporary
DHV	Design Hour Volume	POC	Point On Curve	TI	Temporary Interest
DIA	Diameter	POT	Point on Tangent	TLE	Temporary Limited Easement
E	East	PVC	Polyvinyl Chloride		Ton
X	East Grid Coordinate	PCC	Portland Cement Concrete	t	Town
ELEC	Electric (al)	LB	Pound	T or TN	Transition
EL or ELEV	Elevation	PSI	Pounds Per Square Inch	TRANS	Transit Line
ESALS	Equivalent Single Axle Loads	P.E.	Private Entrance	T	Trucks (percent of)
		R	Radius	TYP	Typical
EBS	Excavation Below Subgrade	RR	Railroad	UNCL	Unclassified
		R	Range	UG	Underground Cable
FF	Face to Face	RL or R/L	Reference Line	USH	United States Highway
F.E.	Field Entrance	RP	Reference Point	VAR	Variable
F	Fill	RCCP	Reinforced Concrete Culvert Pipe	V	Velocity or Design Speed
FG	Finished Grade		Required	VERT	Vertical
FL or F/L	Flow Line	REQD	Residence or Residential	VC	Vertical Curve
FT	Foot	RES	Retaining Wall	VOL	Volume
FTG	Footing	RW	Right	WM	Water Main
GN	Grid North	RT	Right-Hand Forward	WV	Water Valve
HT	Height	RHF	Right-of-Way	W	West
CWT	Hundredweight	R/W	Road	WB	Westbound
HYD	Hydrant	RD	River	YD	Yard
INL	Inlet	R			
ID	Inside Diameter				

2

ORDER OF SECTION 2 SHEETS:

- GENERAL NOTES, UTILITIES, CONTACTS, & ABBREVIATIONS

-PROJECT OVERVIEW

- TYPICAL SECTIONS

- CONSTRUCTION DETAILS

- PLAN DETAILS

CONTROL POINTS

NO.	STA.	DESCRIPTION	Y	X	Z
1	81+55	¾" I.R.S., 27.1' LT.	275,271.20	591,376.74	961.70
2	267+73	¾" I.R.S., 54.9' RT.	281,770.36	606,241.25	924.85
3	431+84	¾" I.R.S., 51.1' LT.	290,852.50	618,632.76	1008.23

PROJECT NO: 5897-00-60

HWY: CTH H

COUNTY: SAUK

GENERAL NOTES, UTILITIES, CONTACTS, & ABBREVIATIONS

SHEET

E

FILE NAME : S:\PROJECTS\W11626 WISDOT - CTH H SAUK CO. HRRRP DESIGN\SHEETS\PLAN\DETAILS\W11626\_GEN NOTES.DWG

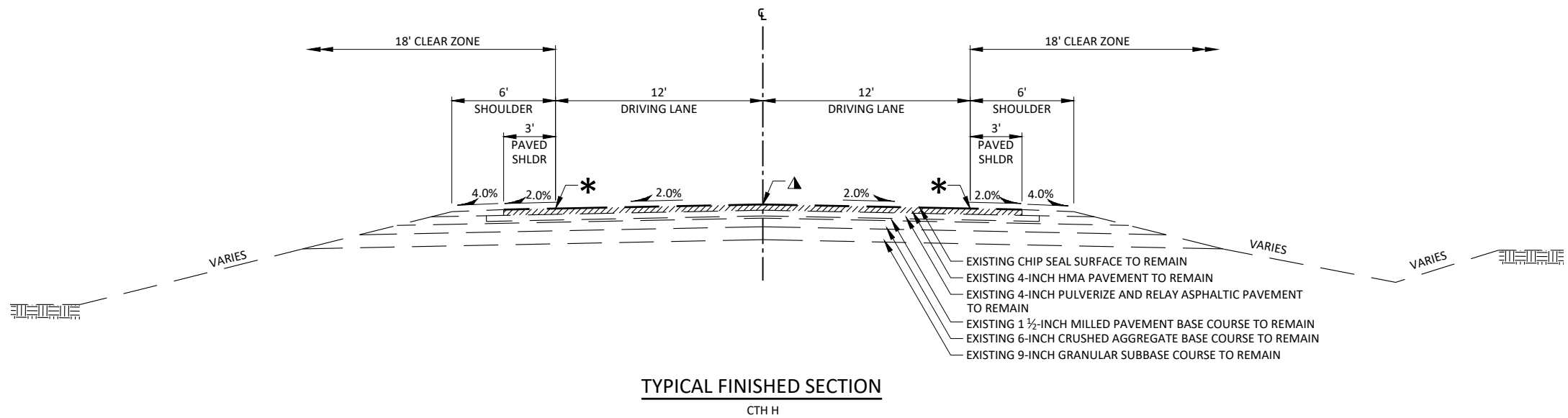
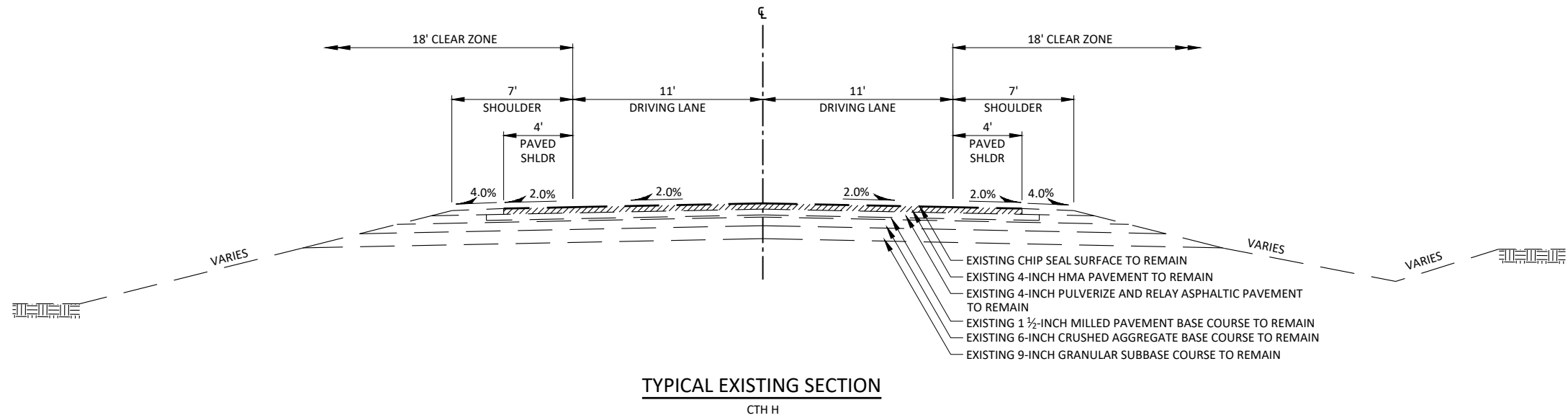
PLOT DATE : 3/3/2022 8:02:13 AM

PLOT BY : TRACY, DAN

PLOT SCALE : 1" = 1'

LAYOUT : LAYOUT1

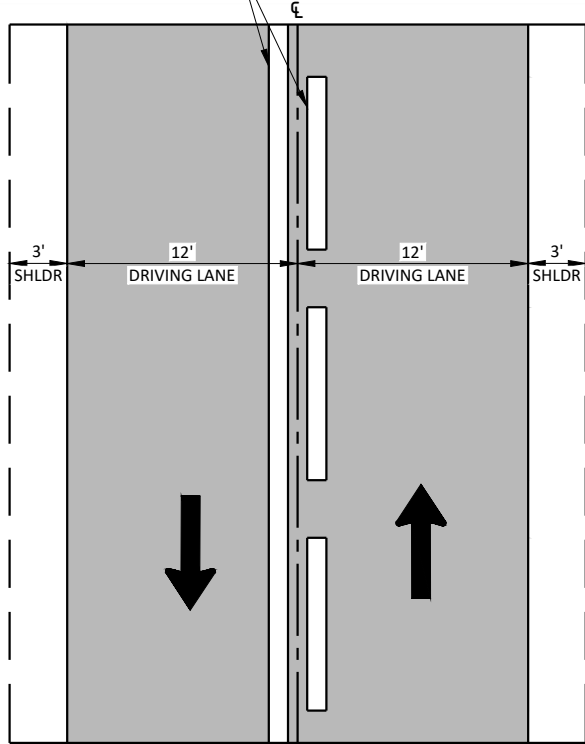




▲ ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL REQ'D. SEE MISCELLANEOUS QUANTITIES AND STANDARD DETAIL DRAWINGS FOR DETAILS.

\* MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH REQ'D. SEE MISCELLANEOUS QUANTITIES AND STANDARD DETAIL DRAWINGS FOR DETAILS.

MARKING LINE SAME DAY EPOXY 4-INCH TO BE PLACED  
SAME DAY AS CENTERLINE RUMBLE STRIPS.

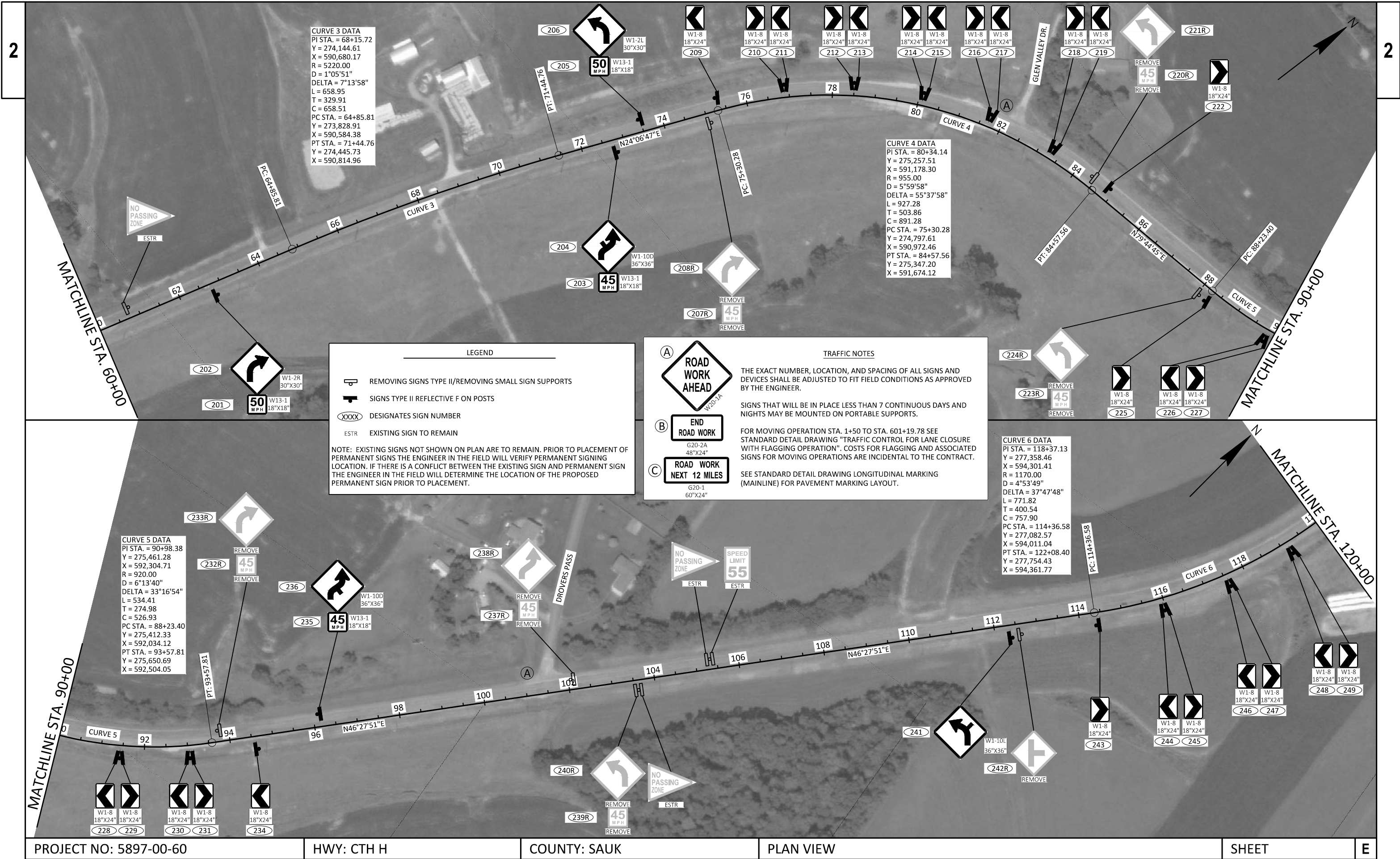


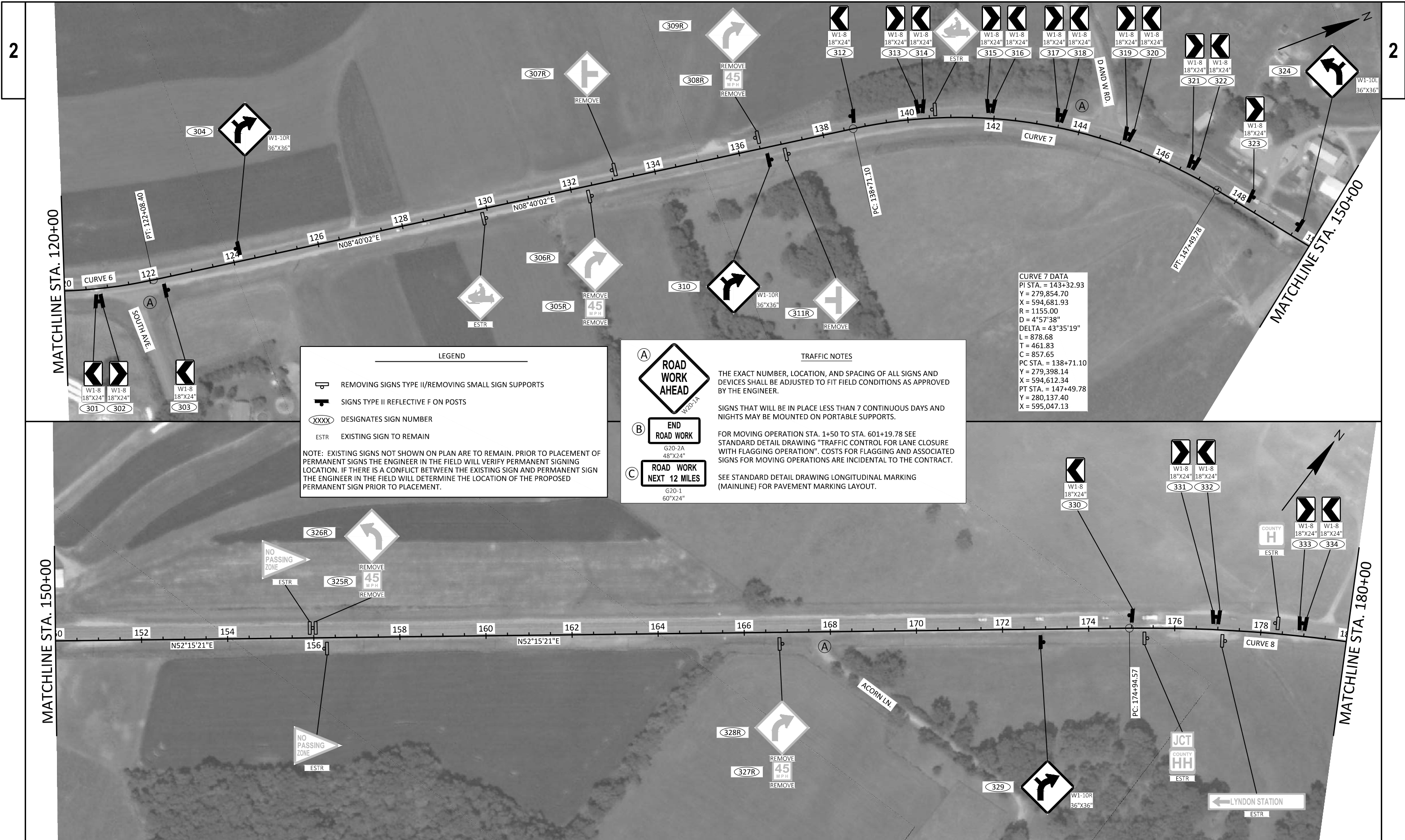
PLAN VIEW

- EXISTING ASPHALTIC SURFACE TO REMAIN
- REMOVE CENTERLINE UNDER MARKING REMOVAL LINE 4-INCH
- PLACE TEMPORARY MARKING LINE EPOXY 4-INCH (TO BE PLACED SAME DAY AS MARKING REMOVAL LINE 4-INCH)
- INSTALL ASPHALTIC CENTERLINE RUMBLE STRIPS
- PLACE MARKING LINE SAME DAY EPOXY 4-INCH

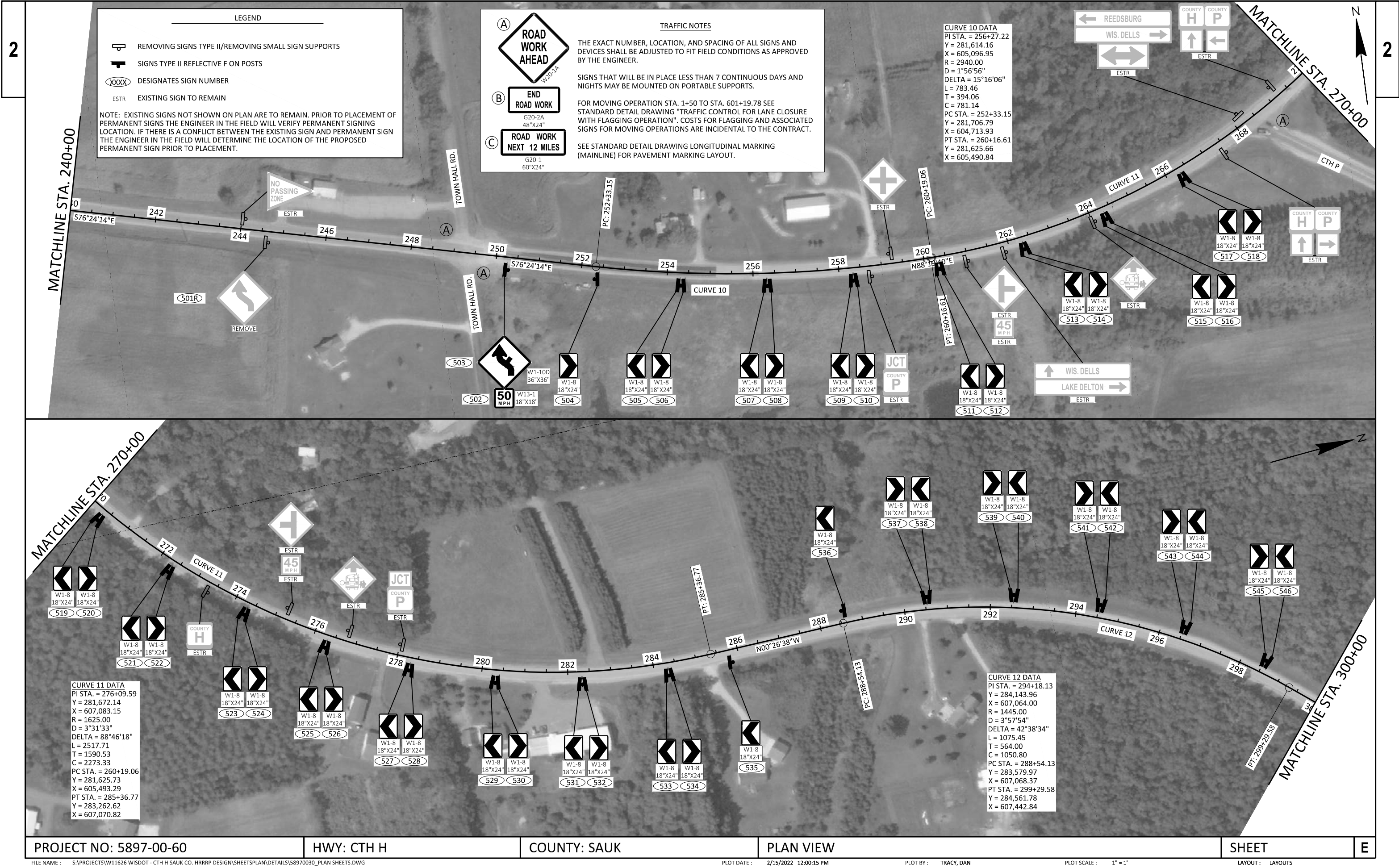
CENTERLINE PAVEMENT MARKING SEQUENCE DETAIL

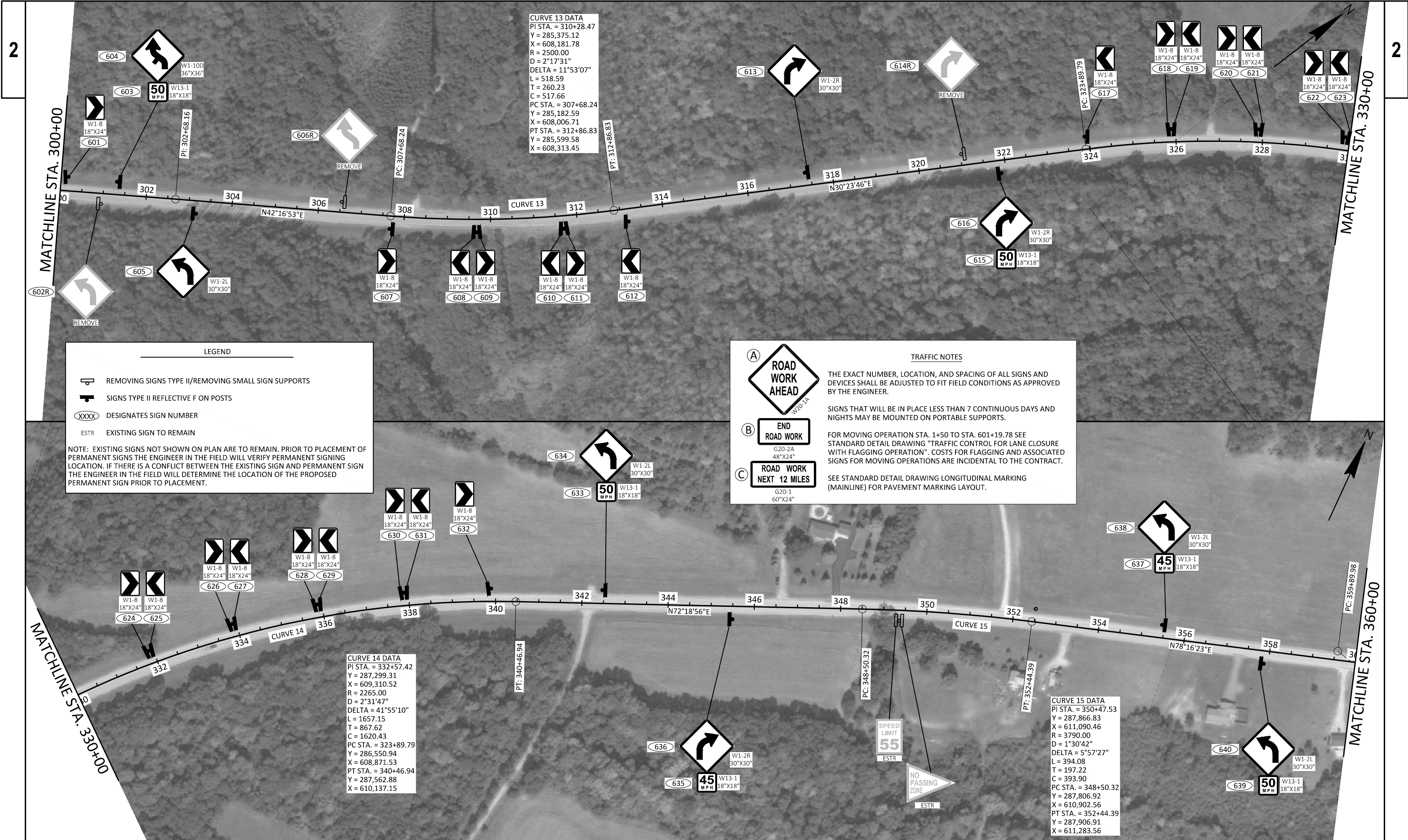














CURVE 16 DATA  
PI STA. = 362+81.81  
Y = 288,117.77  
X = 612,299.32  
R = 4995.00  
D = 1°08'49"  
DELTA = 6°41'14"  
L = 582.99  
T = 291.82  
C = 582.66  
PC STA. = 359+89.98  
Y = 288,058.45  
X = 612,013.58  
PT STA. = 365+72.97  
Y = 288,209.95  
X = 612,576.20

CURVE 17 DATA  
PI STA. = 379+43.47  
Y = 288,642.87  
X = 613,876.52  
R = 5570.00  
D = 1°01'43"  
DELTA = 6°35'16"  
L = 640.43  
T = 320.57  
C = 640.08  
PC STA. = 376+22.90  
Y = 288,541.60  
X = 613,572.37  
PT STA. = 382+63.33  
Y = 288,778.35  
X = 614,167.05

LEGEND

REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS

SIGNS TYPE II REFLECTIVE F ON POSTS

DESIGNATES SIGN NUMBER

EXISTING SIGN TO REMAIN

NOTE: EXISTING SIGNS NOT SHOWN ON PLAN ARE TO REMAIN. PRIOR TO PLACEMENT OF PERMANENT SIGNS THE ENGINEER IN THE FIELD WILL VERIFY PERMANENT SIGNING LOCATION. IF THERE IS A CONFLICT BETWEEN THE EXISTING SIGN AND PERMANENT SIGN THE ENGINEER IN THE FIELD WILL DETERMINE THE LOCATION OF THE PROPOSED PERMANENT SIGN PRIOR TO PLACEMENT.

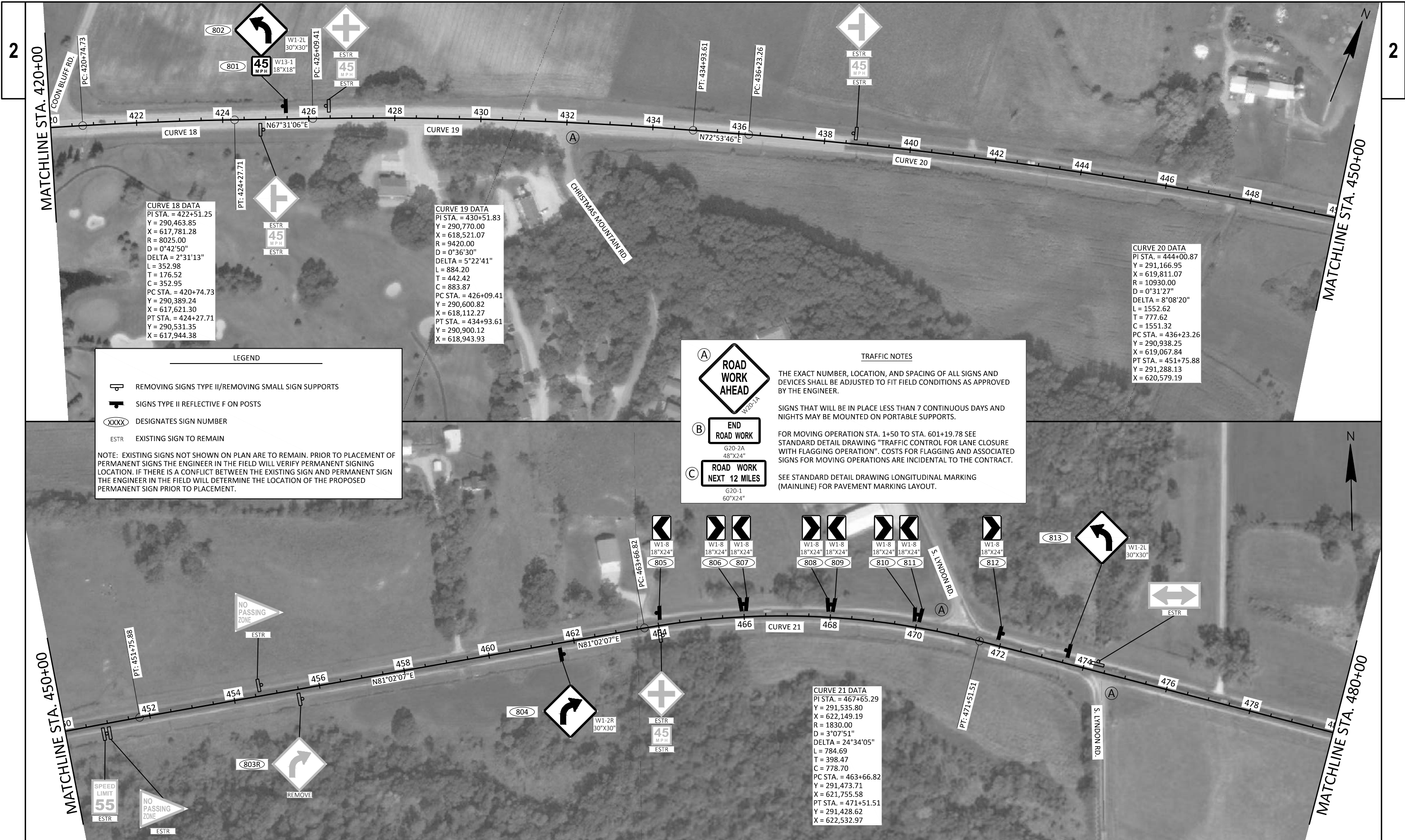
TRAFFIC NOTES

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

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

FOR MOVING OPERATION STA. 1+50 TO STA. 601+19.78 SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION". COSTS FOR FLAGGING AND ASSOCIATED SIGNS FOR MOVING OPERATIONS ARE INCIDENTAL TO THE CONTRACT.

SEE STANDARD DETAIL DRAWING LONGITUDINAL MARKING (MAINLINE) FOR PAVEMENT MARKING LAYOUT.



**LEGEND**

REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS

SIGNS TYPE II REFLECTIVE F ON POSTS

DESIGNATES SIGN NUMBER

EXISTING SIGN TO REMAIN

NOTE: EXISTING SIGNS NOT SHOWN ON PLAN ARE TO REMAIN. PRIOR TO PLACEMENT OF PERMANENT SIGNS THE ENGINEER IN THE FIELD WILL VERIFY PERMANENT SIGNING LOCATION. IF THERE IS A CONFLICT BETWEEN THE EXISTING SIGN AND PERMANENT SIGN THE ENGINEER IN THE FIELD WILL DETERMINE THE LOCATION OF THE PROPOSED PERMANENT SIGN PRIOR TO PLACEMENT.

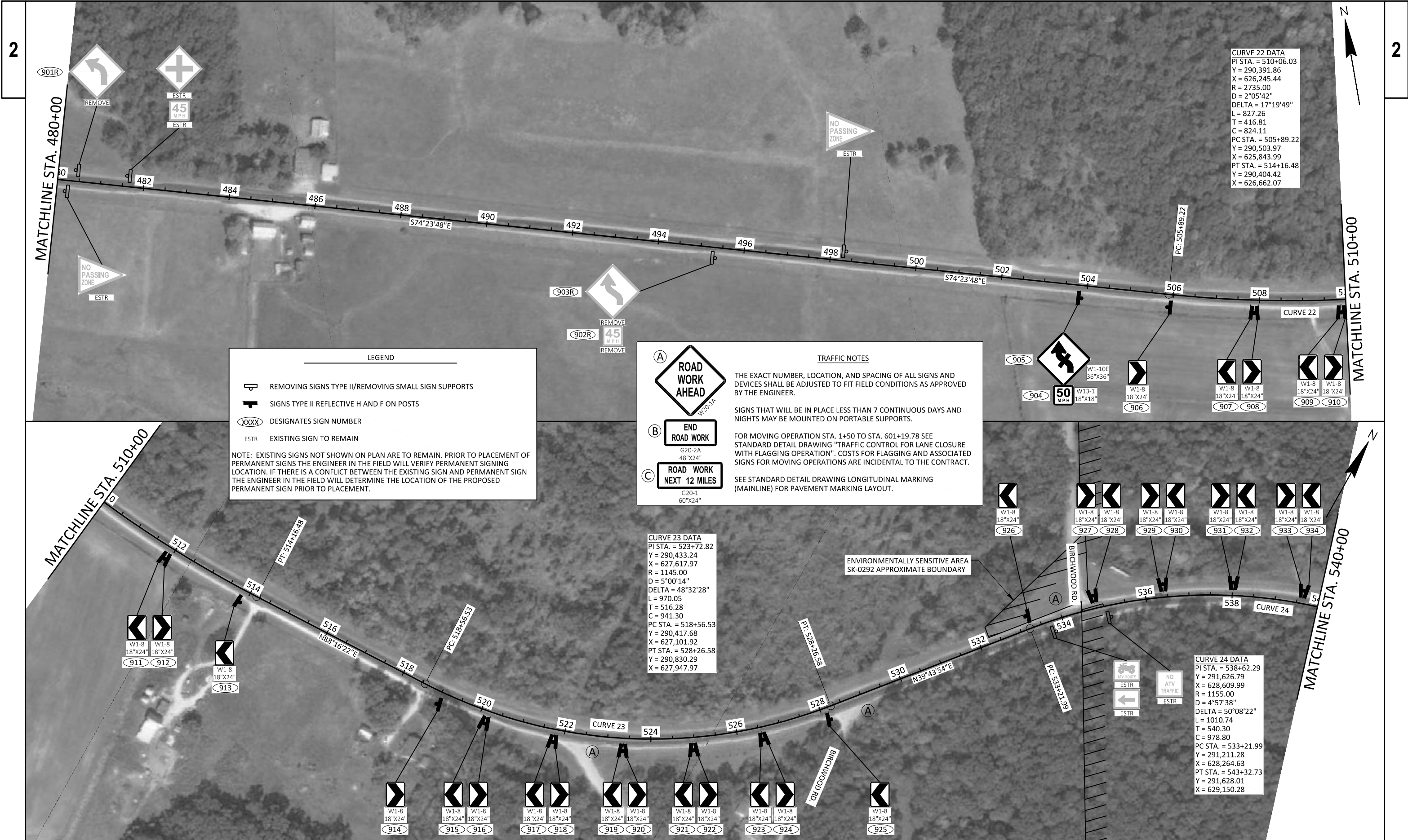
**TRAFFIC NOTES**

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

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

FOR MOVING OPERATION STA. 1+50 TO STA. 601+19.78 SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION". COSTS FOR FLAGGING AND ASSOCIATED SIGNS FOR MOVING OPERATIONS ARE INCIDENTAL TO THE CONTRACT.

SEE STANDARD DETAIL DRAWING LONGITUDINAL MARKING (MAINLINE) FOR PAVEMENT MARKING LAYOUT.



CURVE 22 DATA  
PI STA. = 510+06.03  
Y = 290,391.86  
X = 626,245.44  
R = 2735.00  
D = 2°05'42"  
DELTA = 17°19'49"  
L = 827.26  
T = 416.81  
C = 824.11  
PC STA. = 505+89.22  
Y = 290,503.97  
X = 625,843.99  
PT STA. = 514+16.48  
Y = 290,404.42  
X = 626,662.07

**A**

**ROAD WORK AHEAD**

W20-1A

**B**

**END ROAD WORK**

G20-2A  
48"x24"

**C**

**ROAD WORK NEXT 12 MILES**

G20-1  
60"x24"

**TRAFFIC NOTES**

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

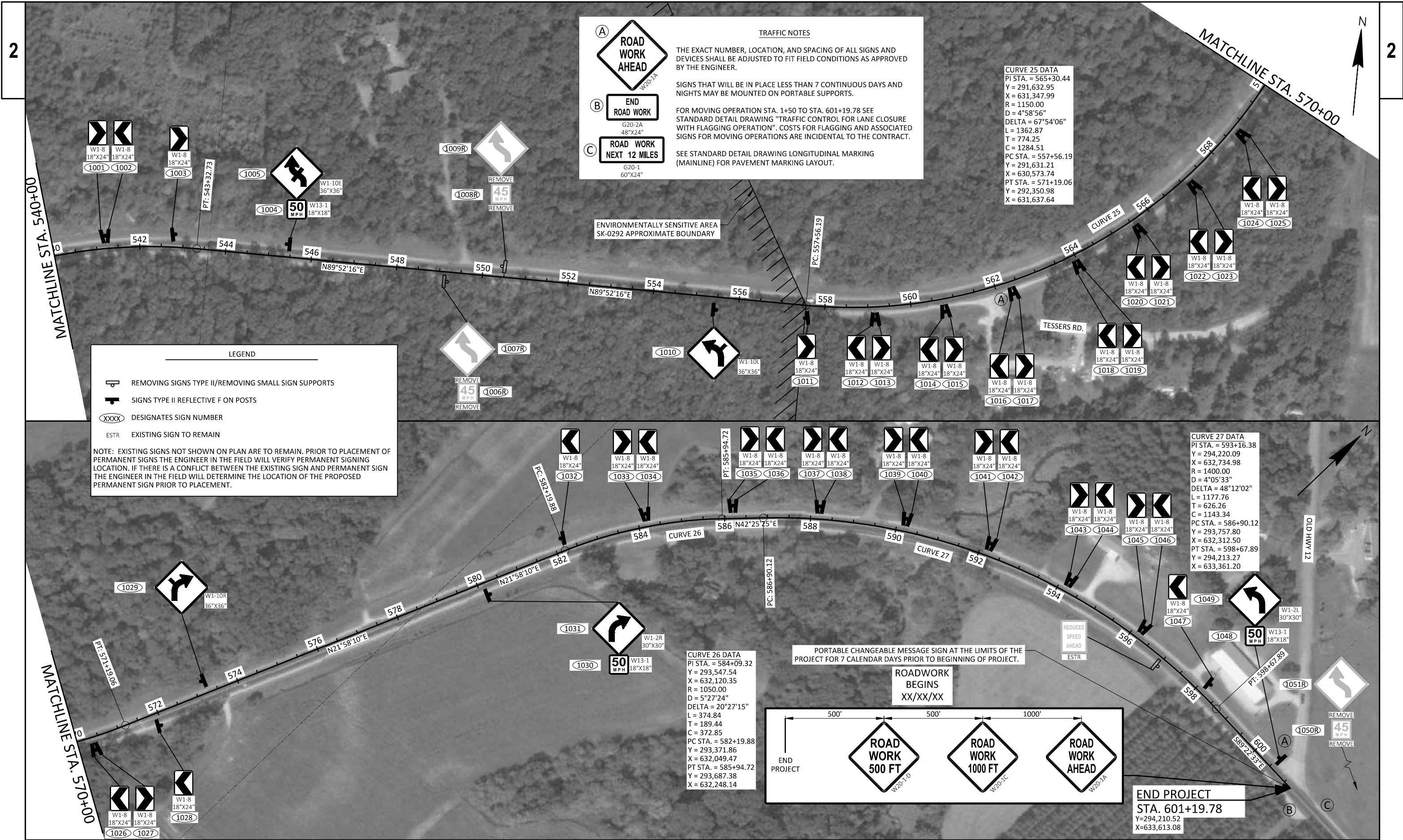
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

FOR MOVING OPERATION STA. 1+50 TO STA. 601+19.78 SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION". COSTS FOR FLAGGING AND ASSOCIATED SIGNS FOR MOVING OPERATIONS ARE INCIDENTAL TO THE CONTRACT.

SEE STANDARD DETAIL DRAWING LONGITUDINAL MARKING (MAINLINE) FOR PAVEMENT MARKING LAYOUT.

CURVE 23 DATA  
PI STA. = 523+72.82  
Y = 290,433.24  
X = 627,617.97  
R = 1145.00  
D = 5°00'14"  
DELTA = 48°32'28"  
L = 970.05  
T = 516.28  
C = 941.30  
PC STA. = 518+56.53  
Y = 290,417.68  
X = 627,101.92  
PT STA. = 528+26.58  
Y = 290,830.29  
X = 627,947.97

CURVE 24 DATA  
PI STA. = 538+62.29  
Y = 291,626.79  
X = 628,609.99  
R = 1155.00  
D = 4°57'38"  
DELTA = 50°08'22"  
L = 1010.74  
T = 540.30  
C = 978.80  
PC STA. = 533+21.99  
Y = 291,211.28  
X = 628,264.63  
PT STA. = 543+32.73  
Y = 291,628.01  
X = 629,150.28



PROJECT NO: 5897-00-60

HWY: CTH H

COUNTY: SAUK

PLAN VIEW

SHEET

E

Estimate Of Quantities

5897-00-60

Line	Item	Item Description	Unit	Total	Qty
0002	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	52,100.000	52,100.000
0004	619.1000	Mobilization	EACH	1.000	1.000
0006	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	128.000	128.000
0008	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	36.000	36.000
0010	637.2230	Signs Type II Reflective F	SF	996.000	996.000
0012	638.2602	Removing Signs Type II	EACH	44.000	44.000
0014	638.3000	Removing Small Sign Supports	EACH	25.000	25.000
0016	642.5001	Field Office Type B	EACH	1.000	1.000
0018	643.0300	Traffic Control Drums	DAY	70.000	70.000
0020	643.0900	Traffic Control Signs	DAY	1,720.000	1,720.000
0022	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0024	643.5000	Traffic Control	EACH	1.000	1.000
0026	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	118,200.000	118,200.000
0028	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	100.000	100.000
0030	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	84,100.000	84,100.000
0032	646.9000	Marking Removal Line 4-Inch	LF	84,100.000	84,100.000
0034	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	79,150.000	79,150.000
0036	650.8000	Construction Staking Resurfacing Reference	LF	59,970.000	59,970.000
0038	650.9910	Construction Staking Supplemental Control (project) 01. Project 5897-00-60	LS	1.000	1.000

RUMBLE STRIPS

465.0475 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL (LF)		
STATION - STATION	LOCATION	
1+50 - 180+00	MAINLINE	14,600
180+00 - 360+00	MAINLINE	16,800
360+00 - 601+20	MAINLINE	20,700
TOTALS=		52,100

CONSTRUCTION STAKING

		650.8000 RESURFACING REFERENCE (LF)	650.9910 SUPPLEMENTAL CONTROL (01. 5897-00-60) (LS)
STATION - STATION	LOCATION		
1+50 - 180+00	MAINLINE	17,850	-
180+00 - 360+00	MAINLINE	18,000	-
360+00 - 601+20	MAINLINE	24,120	-
-	PROJECT	-	1
TOTALS =		59,970	1

TRAFFIC CONTROL

	643.0300 TRAFFIC CONTROL DRUMS (DAY)	643.0900 TRAFFIC CONTROL SIGNS (DAY)	643.105 TRAFFIC CONTROL SIGNS PCMS (DAY)	643.5000 TRAFFIC CONTROL (EACH)
LOCATION				
MAINLINE	-	440	-	-
SIDERoadS	-	1280	-	-
PCMS BOARDS	70	-	14	-
PROJECT	-	-	-	1
TOTALS =	70	1720	14	1

PAVEMENT MARKING

			646.1040		646.3040		646.4520		646.9000		649.0120	
			MARKING LINE GROOVED WET REF EPOXY 4-INCH		MARKING LINE GROOVED WET REF EPOXY 8-INCH		MARKING LINE SAME DAY EPOXY 4-INCH		MARKING REMOVAL LINE 4-INCH		TEMPORARY MARKING LINE EPOXY 4-INCH	
STATION - STATION	LOCATION	DESCRIPTION	WHITE	WHITE	WHITE	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	
			SOLID	12.5' SKIPS	SOLID	SOLID	12.5' SKIPS	SOLID	12.5' SKIPS	SOLID	12.5' SKIPS	SOLID
			(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	
1+50 - 36+75	MAINLINE	DOUBLE YELLOW	-	-	-	7,050	-	7,050	-	7,050	-	
36+75 - 47+92	MAINLINE	EB PASSING ONLY	-	-	-	1,117	290	1,117	290	1,117	92	
47+92 - 60+80	MAINLINE	PASSING	-	-	-	-	325	-	325	-	104	
60+80 - 72+09	MAINLINE	WB PASSING ONLY	-	-	-	1,130	290	1,130	290	1,130	92	
72+09 - 92+56	MAINLINE	DOUBLE YELLOW	-	-	-	4,094	-	4,094	-	4,094	-	
92+56 - 103+61	MAINLINE	EB PASSING ONLY	-	-	-	1,105	290	1,105	290	1,105	92	
103+61 - 105+39	MAINLINE	PASSING	-	-	-	-	50	-	50	-	16	
105+39 - 117+02	MAINLINE	WB PASSING ONLY	-	-	-	1,163	300	1,163	300	1,163	96	
117+02 - 145+26	MAINLINE	DOUBLE YELLOW	-	-	-	5,648	-	5,648	-	5,648	-	
145+26 - 155+87	MAINLINE	WB PASSING ONLY	-	-	-	1,061	275	1,061	275	1,061	88	
155+87 - 156+36	MAINLINE	DOUBLE YELLOW	-	-	-	98	-	98	-	98	-	
156+36 - 166+91	MAINLINE	EB PASSING ONLY	-	-	-	1,055	264	1,055	264	1,055	84	
166+91 - 195+09	MAINLINE	DOUBLE YELLOW	-	-	-	5,636	-	5,636	-	5,636	-	
180+20 - 182+35	MAINLINE	BYPASS LANE	-	65	-	-	-	-	-	-	-	
195+09 - 206+20	MAINLINE	EB PASSING ONLY	-	-	-	1,111	290	1,111	290	1,111	92	
206+20 - 244+10	MAINLINE	PASSING	-	-	-	-	950	-	950	-	304	
244+10 - 255+07	MAINLINE	WB PASSING ONLY	-	-	-	1,097	275	1,097	275	1,097	88	
255+07 - 337+79	MAINLINE	DOUBLE YELLOW	-	-	-	16,544	-	16,544	-	16,544	-	
267+25 - 268+25	MAINLINE	TURN LANE	-	-	100	-	-	-	-	-	-	
337+79 - 348+45	MAINLINE	EB PASSING ONLY	-	-	-	1,066	275	1,066	275	1,066	88	
348+45 - 417+80	MAINLINE	PASSING	-	-	-	-	1,738	-	1,738	-	556	
417+80 - 439+98	MAINLINE	DOUBLE YELLOW	-	-	-	4,436	-	4,436	-	4,436	-	
427+90 - 430+00	MAINLINE	BYPASS LANE	-	65	-	-	-	-	-	-	-	
439+98 - 450+98	MAINLINE	EB PASSING ONLY	-	-	-	1,100	275	1,100	275	1,100	88	
450+98 - 454+84	MAINLINE	PASSING	-	-	-	-	100	-	100	-	33	
454+84 - 465+80	MAINLINE	WB PASSING ONLY	-	-	-	1,096	275	1,096	275	1,096	88	
465+80 - 469+11	MAINLINE	DOUBLE YELLOW	-	-	-	662	-	662	-	662	-	
469+11 - 480+21	MAINLINE	EB PASSING ONLY	-	-	-	1,110	275	1,110	275	1,110	88	
480+21 - 498+55	MAINLINE	PASSING	-	-	-	-	463	-	463	-	148	
498+55 - 509+39	MAINLINE	WB PASSING ONLY	-	-	-	1,084	275	1,084	275	1,084	88	
509+39 - 601+20	MAINLINE	DOUBLE YELLOW	-	-	-	18,362	-	18,362	-	18,362	-	
1+50 - 601+20	MAINLINE	WHITE EDGELINES	118,070	-	-	-	-	-	-	-	-	
SUBTOTALS =			118,070	130	100	76,825	7,275	76,825	7,275	76,825	2,325	
TOTALS=			118,200		100	84,100		84,100		79,150		

PERMANENT SIGNING

SIGN NUMBER	APPROX. STATION	LOCATION	POSITIION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIZE (INCH X INCH)	637.2230 SIGNS TYPE II REFLECTIVE F (SF)	POSTS WOOD 4X6- INCH		638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	SIGN MOUNTED ON SAME POST AS
									634.0616 16 FT (EACH)	634.0618 18 FT (EACH)			
101R	OFF PROJECT LIMITS RT.	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	1	-
102R	OFF PROJECT LIMITS RT.	MAINLINE	RIGHT	W1-2L	LEFT CURVE	-	-	-	-	-	1	-	101R
103	OFF PROJECT LIMITS RT.	MAINLINE	RIGHT	W1-10L	LEFT CURVE W/ INTERSECTION	-	36X36	9.00	-	1	-	-	-
104	1+50	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
105	2+70	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
106	2+70	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	105
107	3+90	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
108	3+90	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	107
109	5+10	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
110	5+10	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	109
111	6+30	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
112	6+30	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	111
113	7+50	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
114	7+50	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	113
115	8+70	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
116	8+70	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	115
117	11+10	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
118	11+10	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	117
119	12+30	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
120	12+30	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	119
121	13+50	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
122	16+20	MAINLINE	LEFT	W1-10R	RIGHT CURVE W/ INTERSECTION	-	36X36	9.00	-	1	-	-	-
123R	22+37	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	1	-
124R	22+37	MAINLINE	LEFT	W1-2R	RIGHT CURVE	-	-	-	-	-	1	-	123R
125	26+25	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	50	18X18	2.25	-	1	-	-	-
126	26+25	MAINLINE	RIGHT	W1-10R	RIGHT CURVE W/ INTERSECTION	-	36X36	9.00	-	-	-	-	125
127	42+50	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	50	18X18	2.25	-	1	-	-	-
128	42+50	MAINLINE	LEFT	W1-10L	LEFT CURVE W/ INTERSECTION	-	36X36	9.00	-	-	-	-	127
129R	59+30	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	1	-
130R	59+30	MAINLINE	RIGHT	W1-4R	REVERSE CURVE RIGHT	-	-	-	-	-	1	-	129R
201	62+85	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	50	18X18	2.25	-	1	-	-	-
202	62+85	MAINLINE	RIGHT	W1-2R	RIGHT CURVE	-	30X30	6.25	-	-	-	-	201
203	72+80	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	45	18X18	2.25	-	1	-	-	-
204	72+80	MAINLINE	RIGHT	W1-10D	REVERSE CURVE RIGHT W/ INTERSECTION	-	36X36	9.00	-	-	-	-	203
205	73+45	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	50	18X18	2.25	-	1	-	-	-
206	73+45	MAINLINE	LEFT	W1-2L	LEFT CURVE	-	30X30	6.25	-	-	-	-	205
207R	75+08	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	1	-
208R	75+08	MAINLINE	RIGHT	W1-2R	RIGHT CURVE	-	-	-	-	-	1	-	207R
209	75+30	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
210	76+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
211	76+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	210
212	78+50	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
213	78+50	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	212
214	80+10	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
215	80+10	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	214
216	81+70	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
217	81+70	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	216
218	83+30	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
219	83+30	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	218
220R	84+38	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	1	-
SHEET TOTALS =								155.75	16	7	9	5	

PERMANENT SIGNING CONTINUED

SIGN NUMBER	APPROX. STATION	LOCATION	POSITION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIZE (INCH X INCH)	637.2230 SIGNS TYPE II	POSTS WOOD 4X6- INCH		638.2602 REMOVING SIGNS	638.3000 REMOVING SMALL SIGN SUPPORTS	SIGN MOUNTED ON SAME POST AS
								REFLECTIVE F	16 FT (EACH)	18 FT (EACH)	TYPE II (EACH)	(EACH)	
221R	84+38	MAINLINE	LEFT	W1-2L	LEFT CURVE	-	-	-	-	-	1	-	220R
222	84+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
223R	88+04	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	1	-
224R	88+04	MAINLINE	RIGHT	W1-2L	LEFT CURVE	-	-	-	-	-	1	-	223R
225	88+25	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
226	89+85	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
227	89+85	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	226
228	91+45	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
229	91+45	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	228
230	93+05	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
231	93+05	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	230
232R	93+73	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	1	-
233R	93+73	MAINLINE	LEFT	W1-2R	RIGHT CURVE	-	-	-	-	-	1	-	232R
234	94+65	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
235	96+10	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	45	18X18	2.25	-	1	-	-	-
236	96+10	MAINLINE	LEFT	W1-10D	REVERSE CURVE RIGHT W/INTERSECTION	-	36X36	9.00	-	-	-	-	235
237R	102+05	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	1	-
238R	102+05	MAINLINE	LEFT	W1-4R	REVERSE CURVE RIGHT	-	-	-	-	-	1	-	237R
239R	103+57	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	-	-
240R	103+57	MAINLINE	RIGHT	W1-2L	LEFT CURVE	-	-	-	-	-	1	-	239R
241	112+40	MAINLINE	RIGHT	W1-10L	LEFT CURVE W/ INTERSECTION	-	36X36	9.00	-	1	-	-	-
242R	112+63	MAINLINE	RIGHT	W2-2	INTERSECTION WARNING SIGN	-	-	-	-	-	1	1	-
243	114+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
244	116+00	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
245	116+00	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	244
246	117+60	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
247	117+60	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	246
248	119+15	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
249	119+15	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	248
301	120+80	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
302	120+80	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	301
303	122+40	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
304	124+10	MAINLINE	LEFT	W1-10R	RIGHT CURVE W/INTERSECTION	-	36X36	9.00	-	1	-	-	-
305R	132+46	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	1	-
306R	132+46	MAINLINE	RIGHT	W1-2R	RIGHT CURVE	-	-	-	-	-	1	-	305R
307R	135+00	MAINLINE	LEFT	W2-2	INTERSECTION WARNING SIGN	-	-	-	-	-	1	1	-
308R	136+45	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	1	-
309R	136+45	MAINLINE	LEFT	W1-2R	RIGHT CURVE	-	-	-	-	-	1	-	308R
310	136+70	MAINLINE	RIGHT	W1-10R	RIGHT CURVE W/INTERSECTION	-	36X36	9.00	-	1	-	-	-
311R	137+11	MAINLINE	RIGHT	W2-2	INTERSECTION WARNING SIGN	-	-	-	-	-	1	1	-
312	138+70	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
313	140+30	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
314	140+30	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	313
315	141+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
316	141+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	315
317	143+50	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
318	143+50	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	317
319	145+10	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
320	145+10	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	319
SHEET TOTALS =								122.25	17	4	16	8	
PROJECT TOTALS =								278.00	33	11	25	13	

PERMANENT SIGNING CONTINUED

SIGN NUMBER	APPROX. STATION	LOCATION	POSITION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIZE (INCH X INCH)	637.2230 SIGNS TYPE II	POSTS WOOD 4X6- INCH		638.2602 REMOVING TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	SIGN MOUNTED ON SAME POST AS
								REFLECTIVE F	16 FT	18 FT	(EACH)	(EACH)	
321	146+70	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
322	146+70	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	321
323	148+30	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
324	149+50	MAINLINE	LEFT	W1-10L	LEFT CURVE W/ INTERSECTION	-	36X36	9.00	-	1	-	-	-
325R	155+97	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	-	-
326R	155+97	MAINLINE	LEFT	W1-2L	LEFT CURVE	-	-	-	-	-	1	-	325R
327R	166+88	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	1	-
328R	166+88	MAINLINE	RIGHT	W1-2R	RIGHT CURVE	-	-	-	-	-	1	-	327R
329	172+95	MAINLINE	RIGHT	W1-10R	RIGHT CURVE W/ INTERSECTION	-	36X36	9.00	-	1	-	-	-
330	174+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
331	176+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
332	176+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	331
333	178+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
334	178+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	333
401	180+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
402	180+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	401
403	183+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
404	183+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	403
405	184+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
406	184+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	405
407	186+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
408	186+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	407
409	188+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
410	188+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	409
411	190+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
412	190+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	411
413	192+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
414	192+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	413
415	194+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
416	194+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	415
417	196+85	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
418	196+85	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	417
419	198+95	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
420	202+00	MAINLINE	LEFT	W1-10L	LEFT CURVE W/ INTERSECTION	-	36X36	9.00	-	1	-	-	-
421R	206+95	MAINLINE	LEFT	W1-2L	LEFT CURVE	-	-	-	-	-	1	1	-
501R	244+68	MAINLINE	RIGHT	W1-4L	REVERSE CURVE LEFT	-	-	-	-	-	1	1	-
502	250+30	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	50	18X18	2.25	-	1	-	-	-
503	250+30	MAINLINE	RIGHT	W1-10D	REVERSE CURVE LEFT W/ INTERSECTION	-	36X36	9.00	-	-	-	-	502
504	252+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
505	254+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
506	254+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	505
507	256+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
508	256+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	507
509	258+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
510	258+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	509
511	260+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
512	260+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	511
513	262+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
514	262+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	513
SHEET TOTALS =								152.25	21	4	6	3	
PROJECT TOTALS =								430.25	54	15	31	16	

PERMANENT SIGNING CONTINUED

SIGN NUMBER	APPROX. STATION	LOCATION	POSITIION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIZE (INCH X INCH)	637.2230 SIGNS TYPE II	POSTS WOOD 4X6- INCH		638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	SIGN MOUNTED ON SAME POST AS
								REFLECTIVE F	16 FT (EACH)	18 FT (EACH)	(EACH)	(EACH)	
515	264+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
516	264+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	515
517	266+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
518	266+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	517
519	270+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
520	270+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	519
521	272+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
522	272+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	521
523	274+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
524	274+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	523
525	276+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
526	276+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	525
527	278+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
528	278+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	527
529	280+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
530	280+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	529
531	282+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
532	282+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	531
533	284+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
534	284+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	533
535	285+85	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
536	288+55	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
537	290+55	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
538	290+55	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	537
539	292+55	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
540	292+55	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	539
541	294+55	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
542	294+55	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	541
543	296+55	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
544	296+55	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	543
545	298+55	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
546	298+55	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	545
601	300+05	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
602R	300+96	MAINLINE	RIGHT	W1-2L	LEFT CURVE	-	-	-	-	-	1	1	-
603	301+30	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	50	18X18	2.25	-	1	-	-	-
604	301+30	MAINLINE	LEFT	W1-10D	REVERSE CURVE LEFT W/ INTERSECTION	-	36X36	9.00	-	-	-	-	603
605	303+20	MAINLINE	RIGHT	W1-2L	LEFT CURVE	-	30X30	6.25	-	1	-	-	-
606R	306+52	MAINLINE	LEFT	W1-4L	REVERSE CURVE LEFT	-	-	-	-	-	1	1	-
607	307+70	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
608	309+70	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
609	309+70	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	609
610	311+70	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
611	311+70	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	611
612	313+20	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
613	317+35	MAINLINE	LEFT	W1-2R	RIGHT CURVE	-	30X30	6.25	-	1	-	-	-
614R	321+01	MAINLINE	LEFT	W1-2R	RIGHT CURVE	-	-	-	-	-	1	1	-
615	321+90	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	50	18X18	2.25	-	1	-	-	-
616	321+90	MAINLINE	RIGHT	W1-2R	RIGHT CURVE	-	30X30	6.25	-	-	-	-	615
617	323+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
SHEET TOTALS =								152.25	23	4	3	3	
PROJECT TOTALS =								582.50	77	19	34	19	

PERMANENT SIGNING CONTINUED

SIGN NUMBER	APPROX. STATION	LOCATION	POSITION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIZE (INCH X INCH)	637.2230 SIGNS TYPE II	POSTS WOOD 4X6- INCH		638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	SIGN MOUNTED ON SAME POST AS
								REFLECTIVE F	16 FT (EACH)	18 FT (EACH)	(EACH)	(EACH)	
618	325+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
619	325+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	618
620	327+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
621	327+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	620
622	329+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
623	329+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	622
624	331+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
625	331+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	624
626	333+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
627	333+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	626
628	335+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
629	335+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	628
630	337+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
631	337+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	630
632	339+90	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
633	342+45	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	50	18X18	2.25	-	1	-	-	-
634	342+45	MAINLINE	LEFT	W1-2L	LEFT CURVE	-	30X30	6.25	-	-	-	-	633
635	345+50	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	45	18X18	2.25	-	1	-	-	-
636	345+50	MAINLINE	RIGHT	W1-2R	RIGHT CURVE	-	30X30	6.25	-	-	-	-	635
637	355+45	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	45	18X18	2.25	-	1	-	-	-
638	355+45	MAINLINE	LEFT	W1-2L	LEFT CURVE	-	30X30	6.25	-	-	-	-	637
639	357+90	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	50	18X18	2.25	-	1	-	-	-
640	357+90	MAINLINE	RIGHT	W1-2L	LEFT CURVE	-	30X30	6.25	-	-	-	-	639
701	367+75	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	50	18X18	2.25	-	1	-	-	-
702	367+75	MAINLINE	LEFT	W1-2R	RIGHT CURVE	-	30X30	6.25	-	-	-	-	701
703	374+20	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	45	18X18	2.25	-	1	-	-	-
704	374+20	MAINLINE	RIGHT	W1-2L	LEFT CURVE	-	30X30	6.25	-	-	-	-	703
705	384+80	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	45	18X18	2.25	-	1	-	-	-
706	384+80	MAINLINE	LEFT	W1-2R	RIGHT CURVE	-	30X30	6.25	-	-	-	-	705
707	418+75	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	45	18X18	2.25	-	1	-	-	-
708	418+75	MAINLINE	RIGHT	W1-2R	RIGHT CURVE	-	30X30	6.25	-	-	-	-	707
801	425+40	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	45	18X18	2.25	-	1	-	-	-
802	425+40	MAINLINE	LEFT	W1-2L	LEFT CURVE	-	30X30	6.25	-	-	-	-	801
803R	455+55	MAINLINE	RIGHT	W1-2R	RIGHT CURVE	-	-	-	-	-	1	1	-
804	461+65	MAINLINE	RIGHT	W1-2R	RIGHT CURVE	-	30X30	6.25	-	1	-	-	-
805	464+00	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
806	466+00	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
807	466+00	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	806
808	468+00	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
809	468+00	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	808
810	470+00	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
811	470+00	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	810
812	472+00	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
813	473+50	MAINLINE	LEFT	W1-2L	LEFT CURVE	-	30X30	6.25	-	1	-	-	-
901R	480+39	MAINLINE	LEFT	W1-2L	LEFT CURVE	-	-	-	-	-	1	1	-
902R	495+35	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	1	-
903R	495+35	MAINLINE	RIGHT	W1-4L	REVERSE CURVE LEFT	-	-	-	-	-	1	-	902R
904	503+90	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	50	18X18	2.25	-	1	-	-	-
905	503+90	MAINLINE	RIGHT	W1-10E	REVERSE CURVE LEFT W/ INTERSECTION	-	36X36	9.00	-	-	-	-	904
SHEET TOTALS =								169.25	13	12	4	3	
PROJECT TOTALS =								751.75	90	31	38	22	

PERMANENT SIGNING CONTINUED

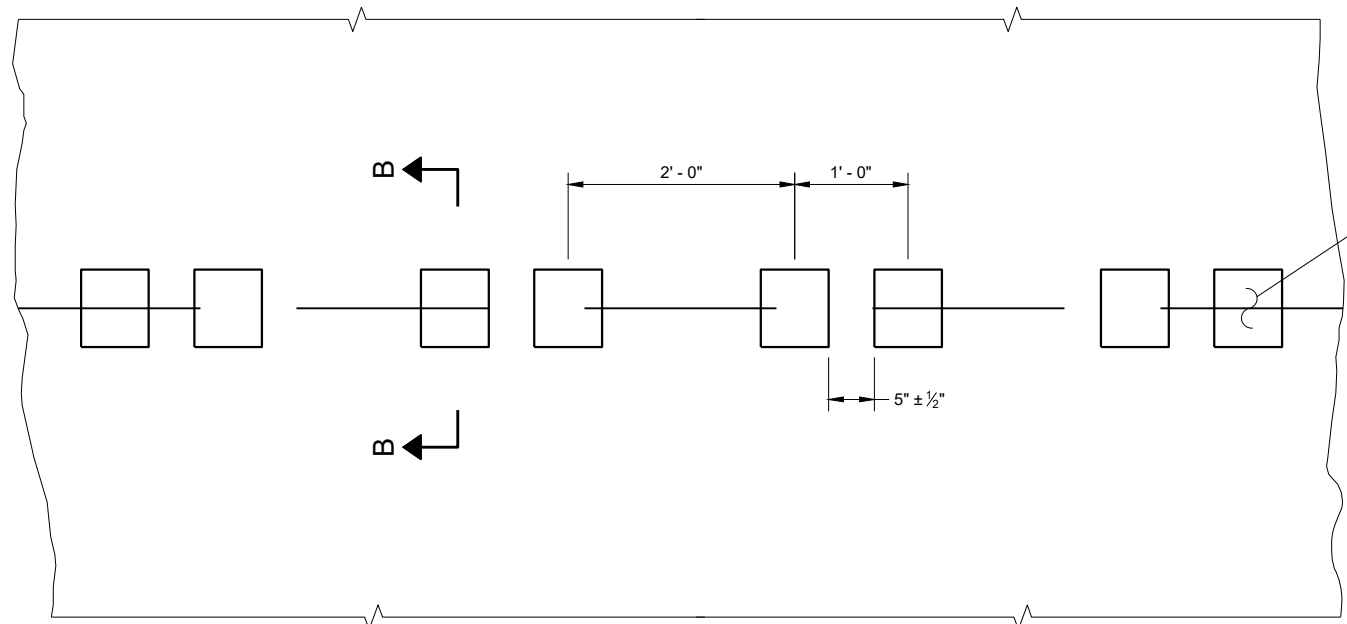
SIGN NUMBER	APPROX. STATION	LOCATION	POSITION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIZE (INCH X INCH)	637.2230 SIGNS TYPE II REFLECTIVE F (SF)	POSTS WOOD 4X6- INCH		638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	SIGN MOUNTED ON SAME POST AS
									634.0616 16 FT (EACH)	634.0618 18 FT (EACH)			
906	505+90	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
907	507+90	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
908	507+90	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	907
909	509+90	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
910	509+90	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	909
911	511+90	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
912	511+90	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	911
913	513+90	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
914	519+00	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
915	520+15	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
916	520+15	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	915
917	521+75	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
918	521+75	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	917
919	523+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
920	523+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	919
921	524+95	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
922	524+95	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	921
923	526+55	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
924	526+55	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	923
925	528+15	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
926	533+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
927	534+80	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
928	534+80	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	927
929	536+40	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
930	536+40	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	929
931	538+00	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
932	538+00	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	931
933	539+60	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
934	539+60	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	933
1001	541+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1002	541+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1001
1003	542+80	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1004	545+40	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	50	18X18	2.25	-	1	-	-	-
1005	545+40	MAINLINE	LEFT	W1-10E	REVERSE CURVE LEFT W/ INTERSECTION	-	36X36	9.00	-	-	-	-	1004
1006R	549+20	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	1	-
1007R	549+20	MAINLINE	RIGHT	W1-4L	REVERSE CURVE LEFT	-	-	-	-	-	1	-	1006R
1008R	550+43	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	1	-
1009R	550+43	MAINLINE	LEFT	W1-4L	REVERSE CURVE LEFT	-	-	-	-	-	1	-	1008R
1010	555+50	MAINLINE	RIGHT	W1-10L	LEFT CURVE W/ INTERSECTION	-	36X36	9.00	-	1	-	-	-
1011	557+55	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1012	559+15	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1013	559+15	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1012
1014	560+75	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1015	560+75	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1014
1016	562+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1017	562+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1016
1018	563+95	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1019	563+95	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1018
1020	565+55	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
SHEET TOTALS =								146.25	25	2	4	2	
PROJECT TOTALS =								898.00	115	33	42	24	

PERMANENT SIGNING CONTINUED

SIGN NUMBER	APPROX. STATION	LOCATION	POSITIION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIZE (INCH X INCH)	637.2230 SIGNS TYPE II REFLECTIVE F (SF)	POSTS WOOD 4X6- INCH		638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	SIGN MOUNTED ON SAME POST AS
									634.0616 16 FT (EACH)	634.0618 18 FT (EACH)			
1021	565+55	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1020
1022	567+15	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1023	567+15	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1022
1024	568+75	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1025	568+75	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1024
1026	570+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1027	570+35	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1026
1028	571+95	MAINLINE	RIGHT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1029	573+20	MAINLINE	LEFT	W1-10R	RIGHT CURVE W/ INTERSECTION	-	36X36	9.00	-	1	-	-	-
1030	580+20	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	50	18X18	2.25	-	1	-	-	-
1031	580+20	MAINLINE	RIGHT	W1-2R	RIGHT CURVE	-	30X30	6.25	-	-	-	-	1030
1032	582+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1033	584+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1034	584+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1033
1035	586+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1036	586+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1035
1037	588+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1038	588+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1037
1039	590+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1040	590+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1039
1041	592+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1042	592+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1041
1043	594+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1044	594+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1043
1045	596+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1046	596+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	-	-	-	-	1045
1047	598+20	MAINLINE	LEFT	W1-8	CHEVRON	-	18X24	3.00	1	-	-	-	-
1048	600+50	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	50	18X18	2.25	-	1	-	-	-
1049	600+50	MAINLINE	LEFT	W1-2L	LEFT CURVE	-	30X30	6.25	-	-	-	-	1048
1050R	OFF PROJECT LIMITS LT.	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	45	-	-	-	-	1	1	-
1051R	OFF PROJECT LIMITS LT.	MAINLINE	LEFT	W1-4L	REVERSE CURVE LEFT	-	-	-	-	-	1	-	1050R
SHEET TOTALS =								98.00	13	3	2	1	
PROJECT TOTALS =								996.00	128	36	44	25	

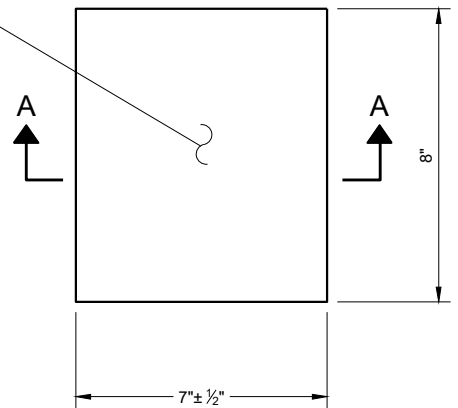
Standard Detail Drawing List

13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-08	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)



PLAN VIEW  
SHOULDER WITH GROOVES

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



PLAN VIEW  
(SINGLE GROOVE)

GENERAL NOTES

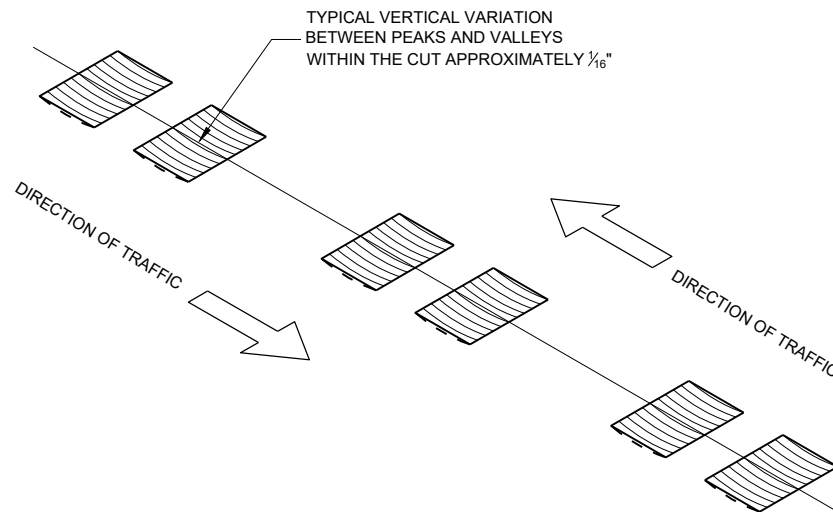
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

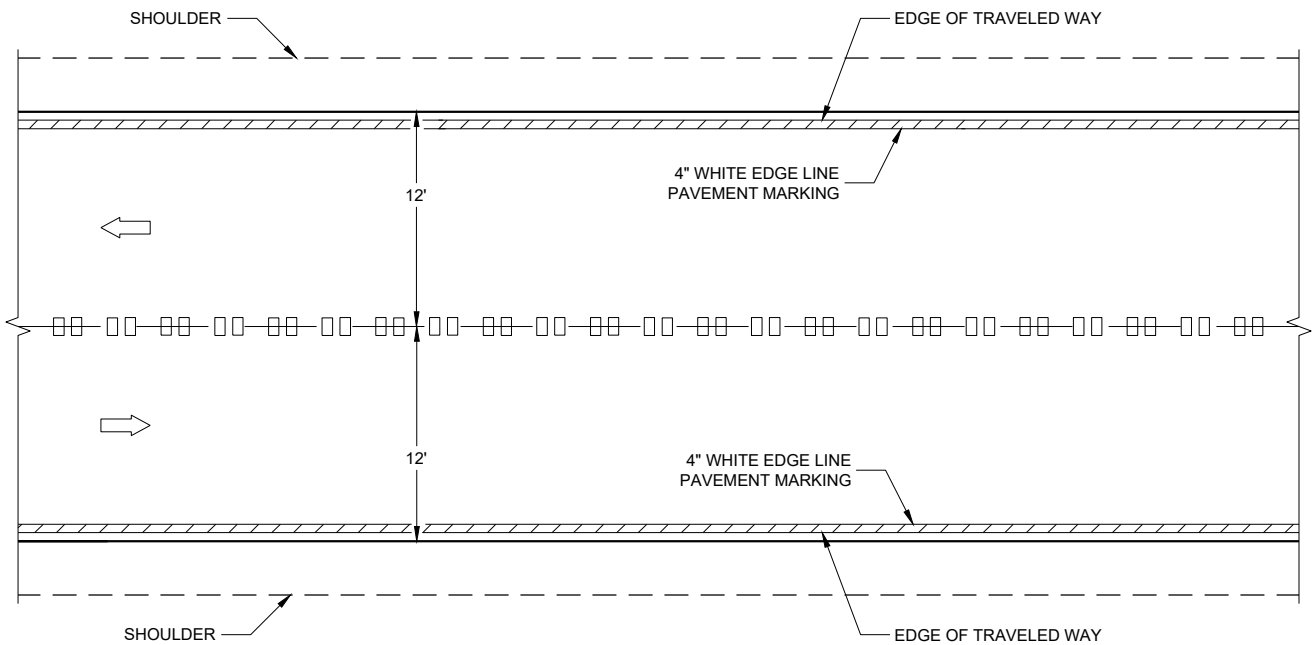
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

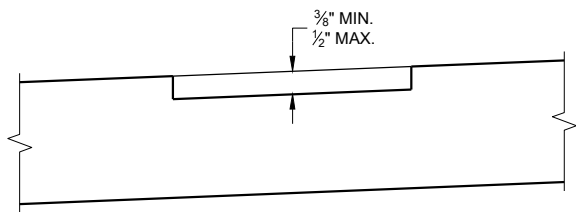
- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



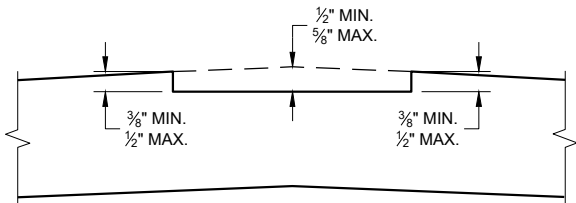
ISOMETRIC



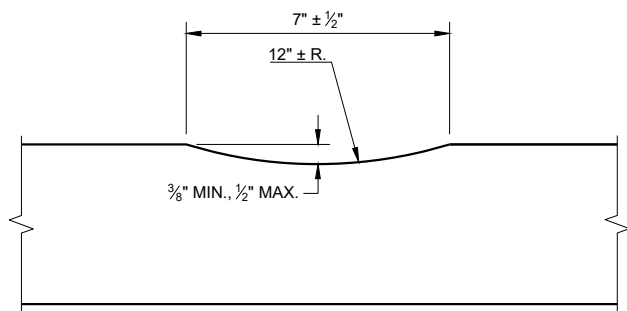
CENTERLINE GROOVES ON TWO-WAY ROADWAYS



SECTION B - B  
SUPERELEVATED ROADWAY



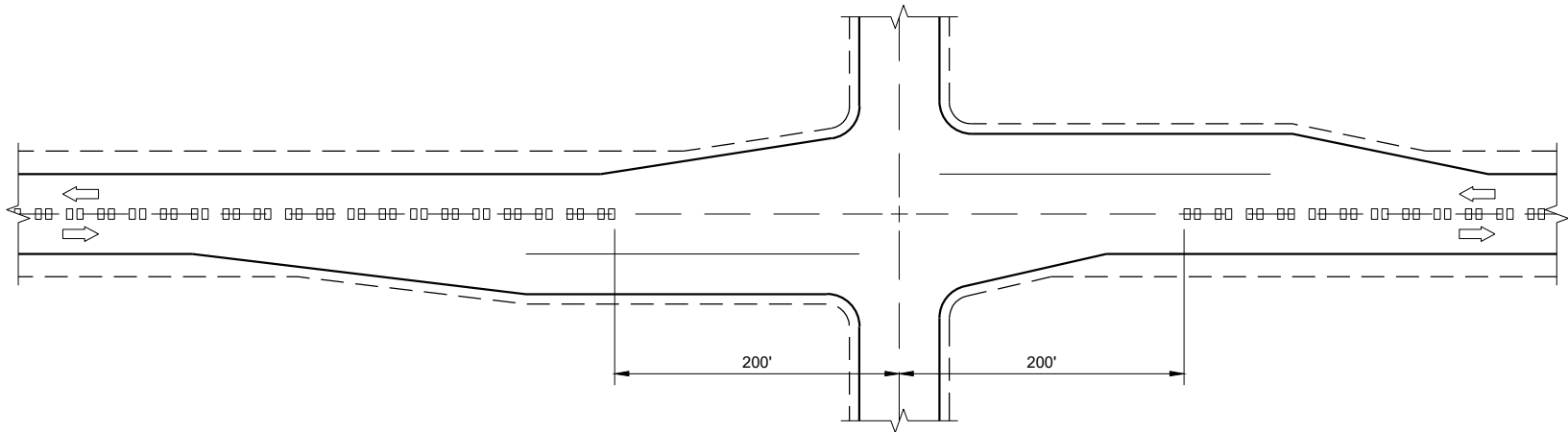
SECTION B - B  
CROWNED ROADWAY



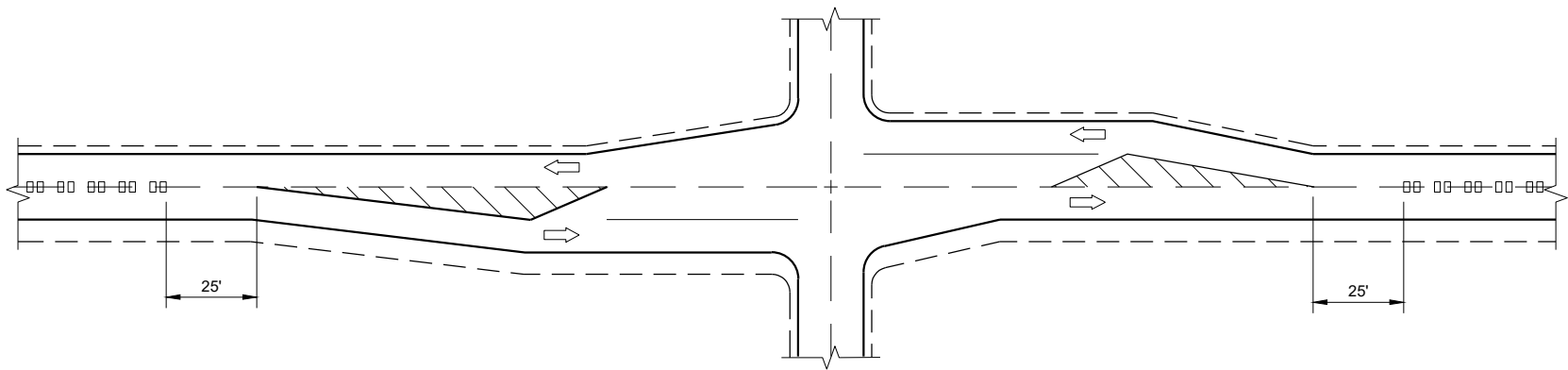
SECTION A - A

2-LANE RURAL  
CENTER LINE RUMBLE STRIP,  
MILLING

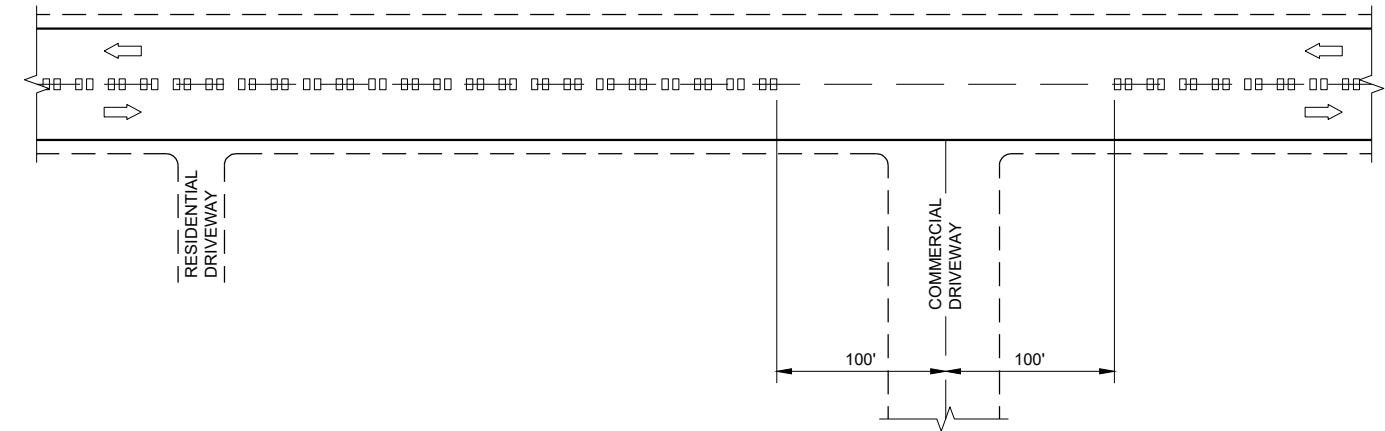
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



CENTERLINE GROOVES AT INTERSECTIONS



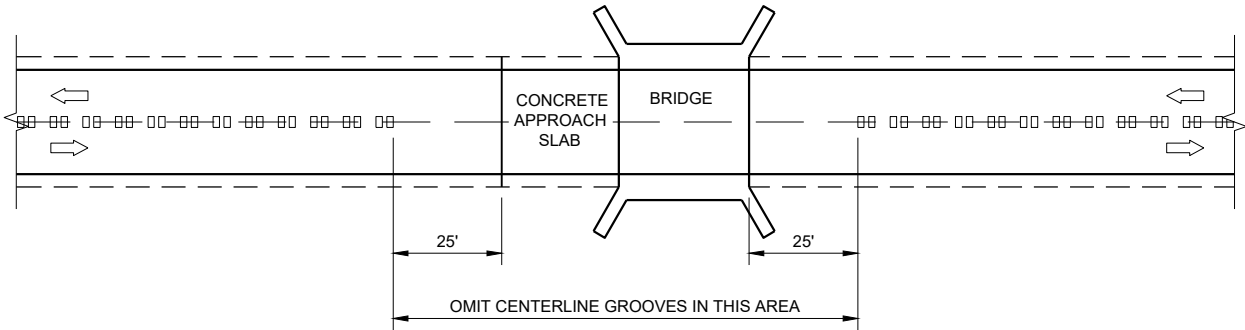
CENTERLINE GROOVES AT INTERSECTIONS  
(WITH LEFT TURN LANES)



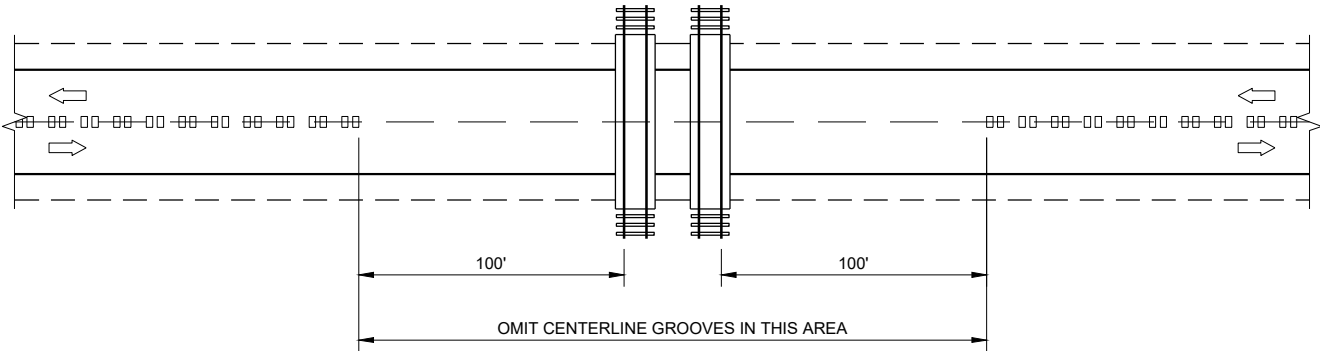
CENTERLINE GROOVES AT DRIVEWAYS<sup>①</sup>

GENERAL NOTES

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



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

2-LANE RURAL  
CENTERLINE RUMBLE STRIP,  
MILLING

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
7/2018  
DATE  
/S/ Rodney Taylor  
ROADWAY STANDARDS DEVELOPMENT  
ENGINEER

FHWA

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" X 48" UNLESS OTHERWISE NOTED.

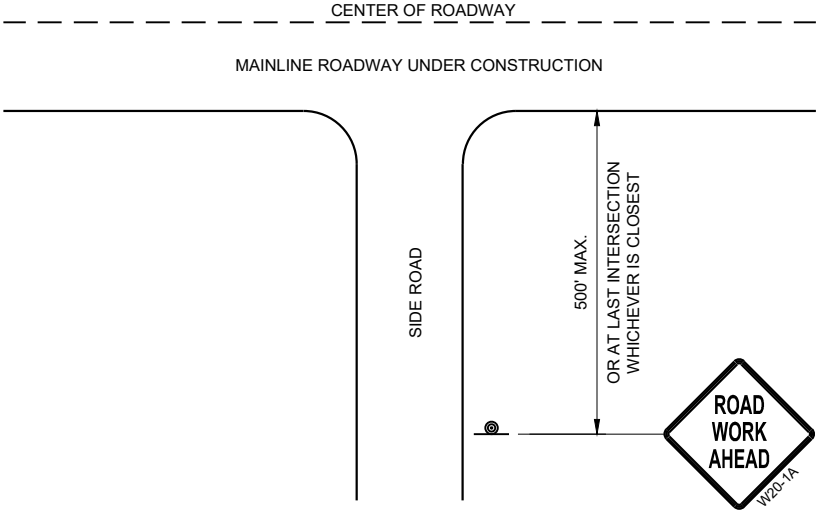
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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 REESTABLISHED.

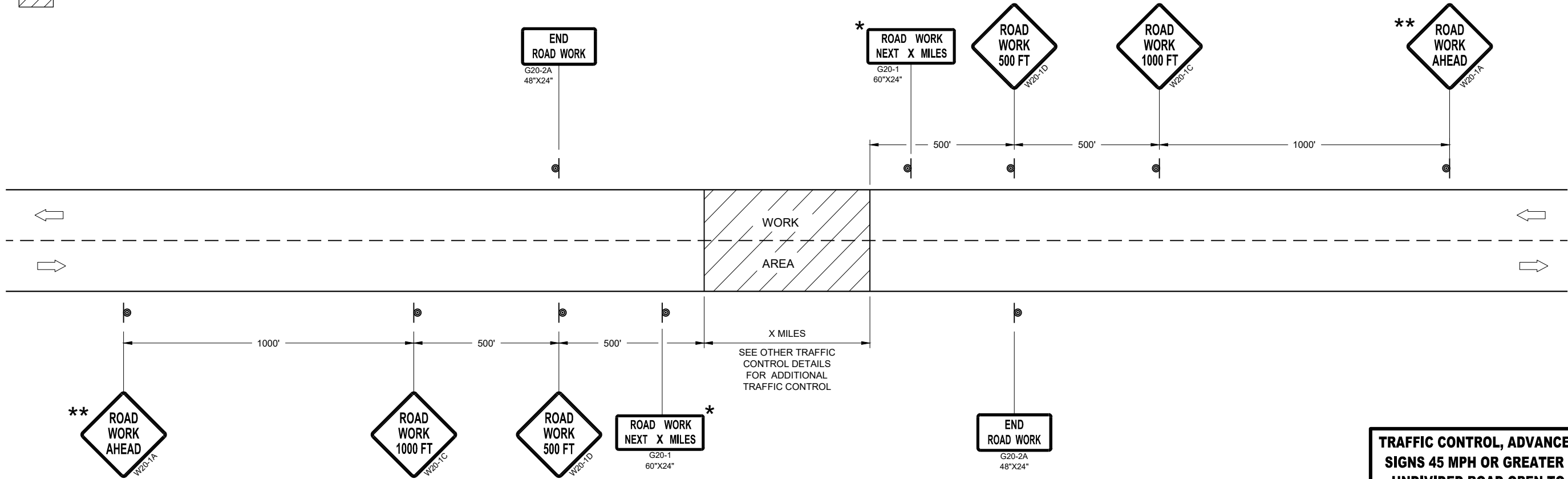
- \* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS
- \*\* PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

LEGEND

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



TYPICAL SIDE ROAD APPROACH  
WARNING SIGN DETAIL



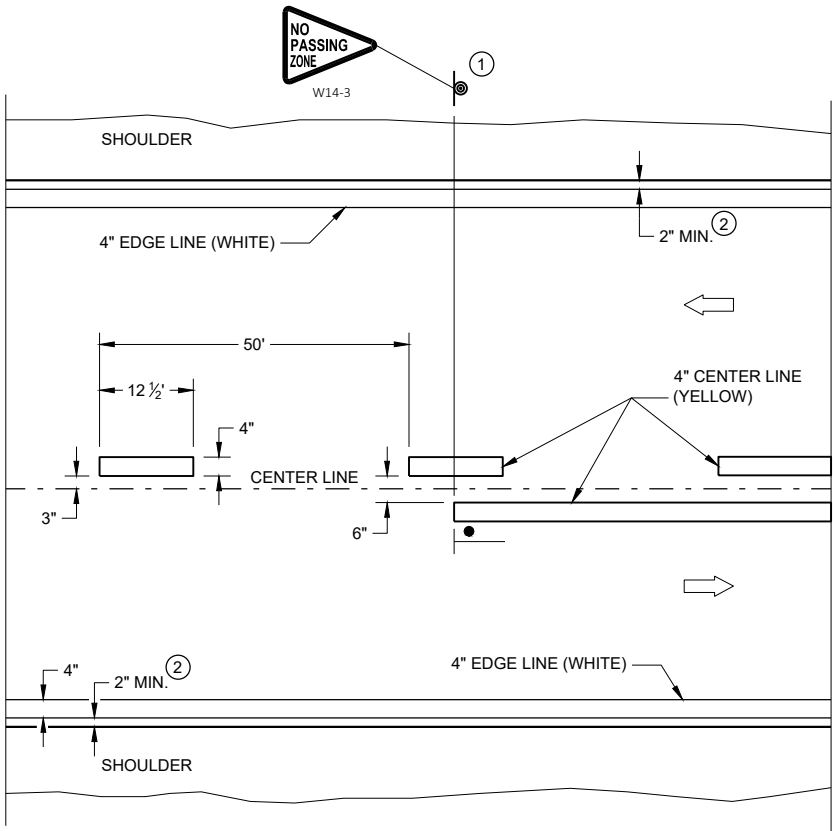
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING  
SIGNS 45 MPH OR GREATER TWO-WAY  
UNDIVIDED ROAD OPEN TO TRAFFIC

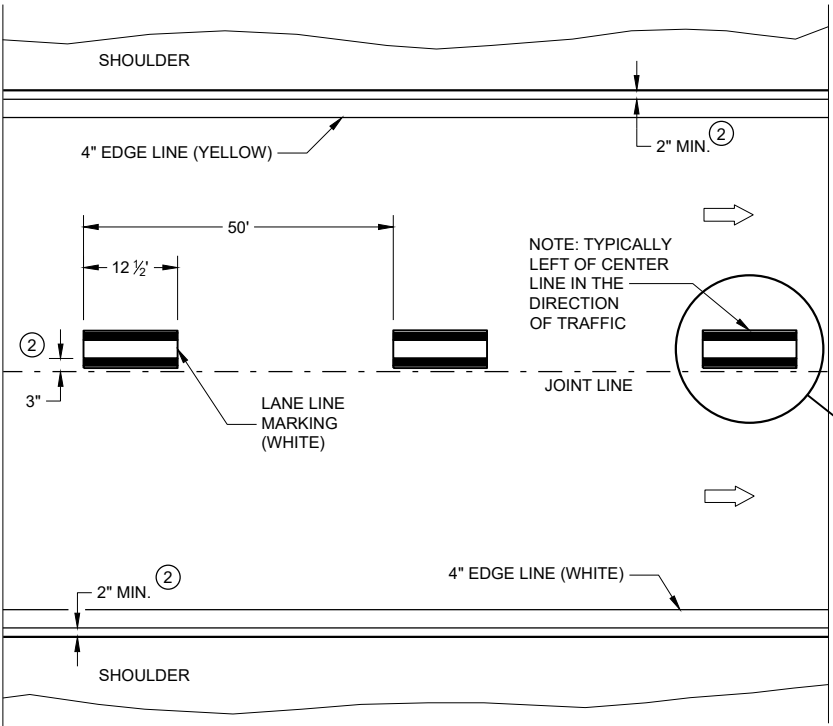
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
July 2018 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER

FHWA

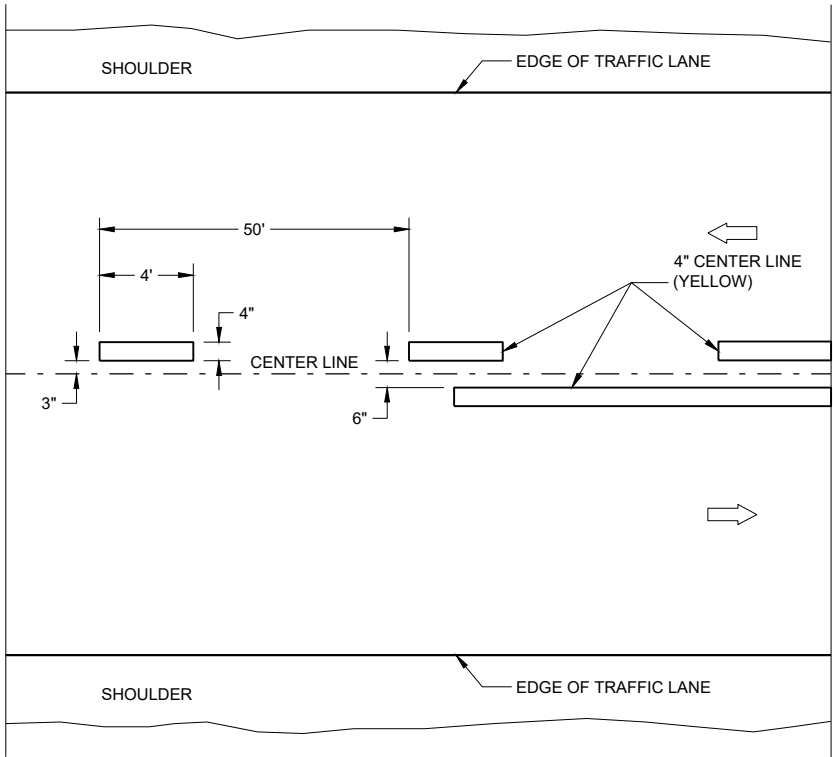


TWO WAY TRAFFIC

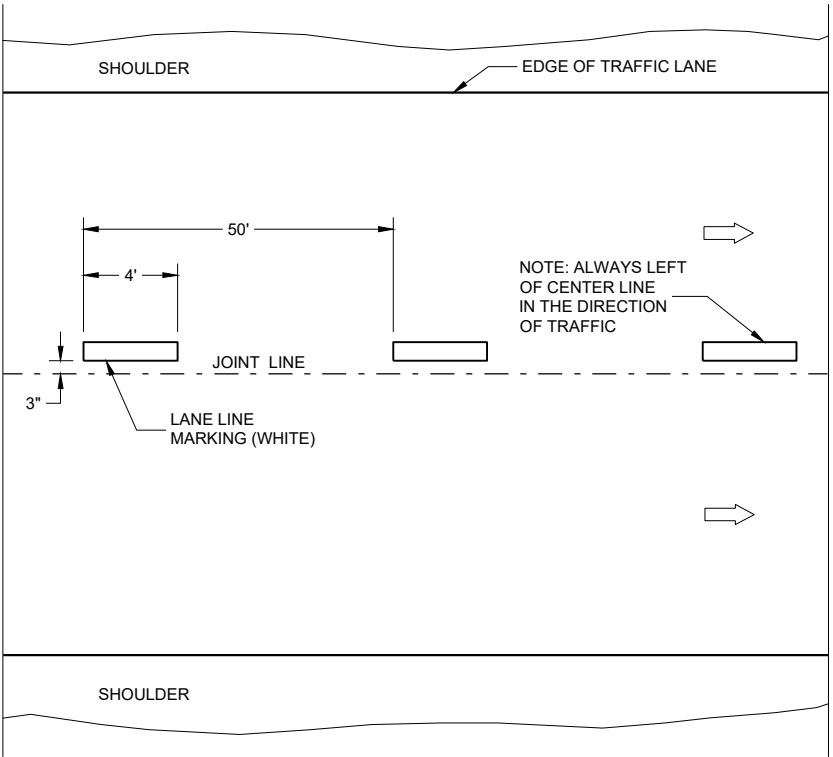


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

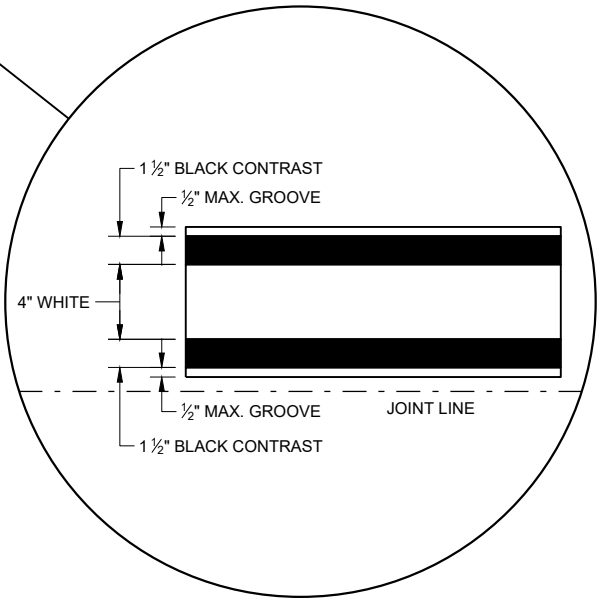
GENERAL NOTES

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

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

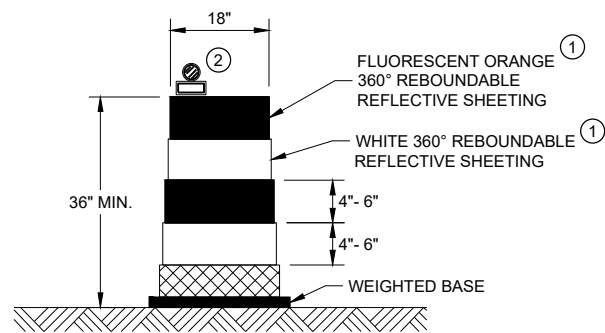
- "T" MARKING
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC



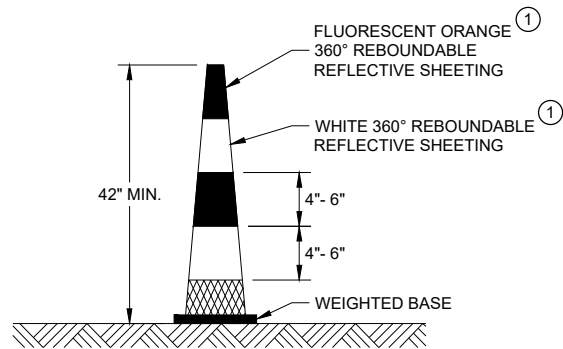
LONGITUDINAL MARKING  
(MAINLINE)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2020  
DATE  
/S/ Matthew Rauch  
STATEWIDE SIGNING AND MARKING  
ENGINEER  
FHWA

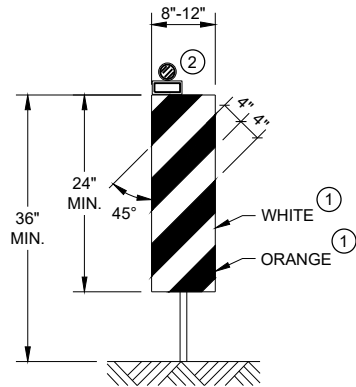


DRUM



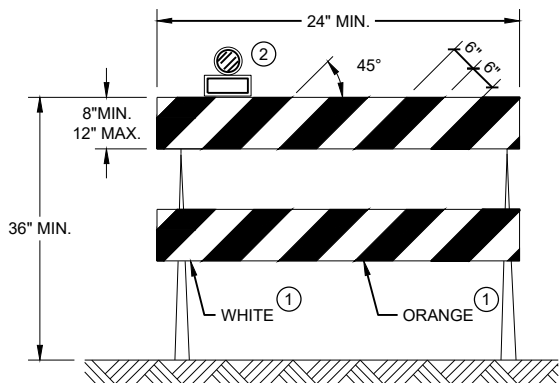
42" CONE

DO NOT USE IN TAPERS  
½ SPACING OF DRUMS



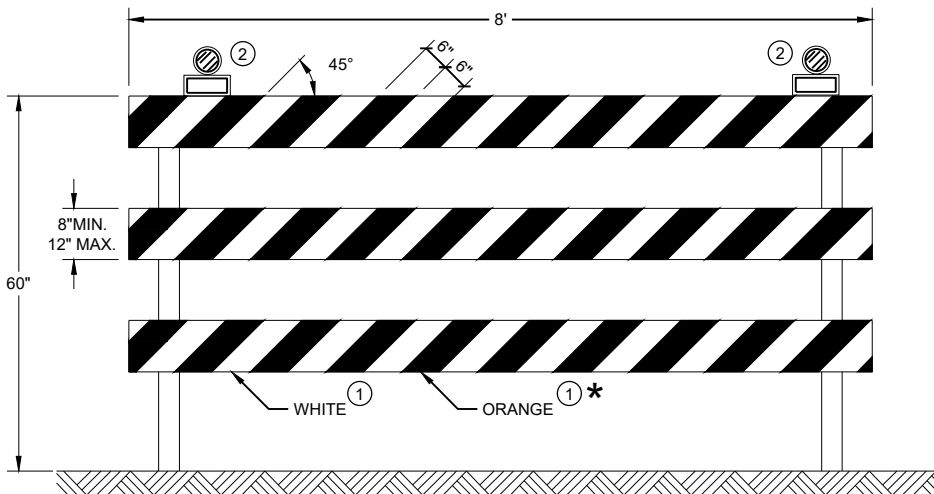
VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

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

GENERAL NOTES

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

CHANNELIZING DEVICES  
DRUMS, CONES, BARRICADES  
AND VERTICAL PANELS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

FHWA

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

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

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

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

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

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

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

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

- ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' 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.

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

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

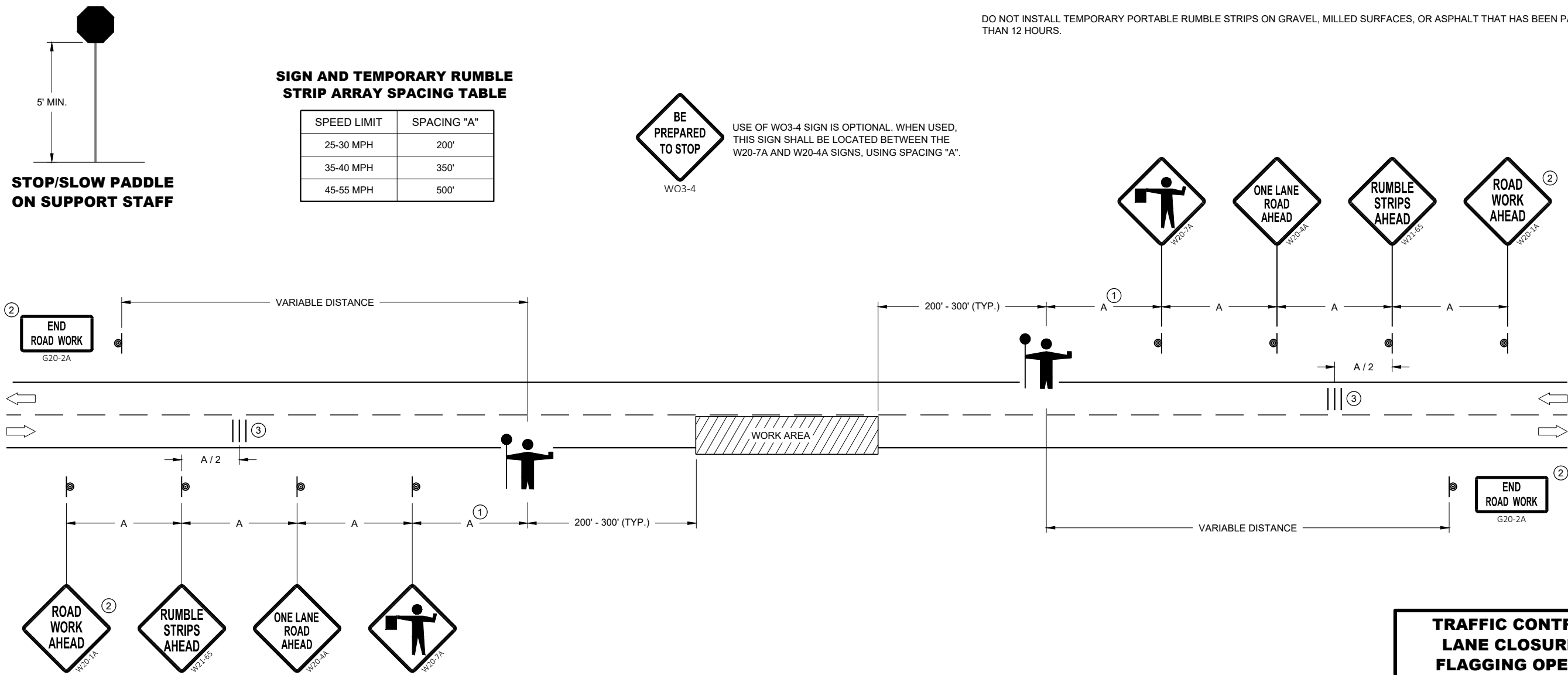
EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.





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



APPROVED	
<u>November 2021</u>	<u>/S/ Andrew Heidtke</u>
DATE	WORK ZONE ENGINEER

FHWA

LEGEND

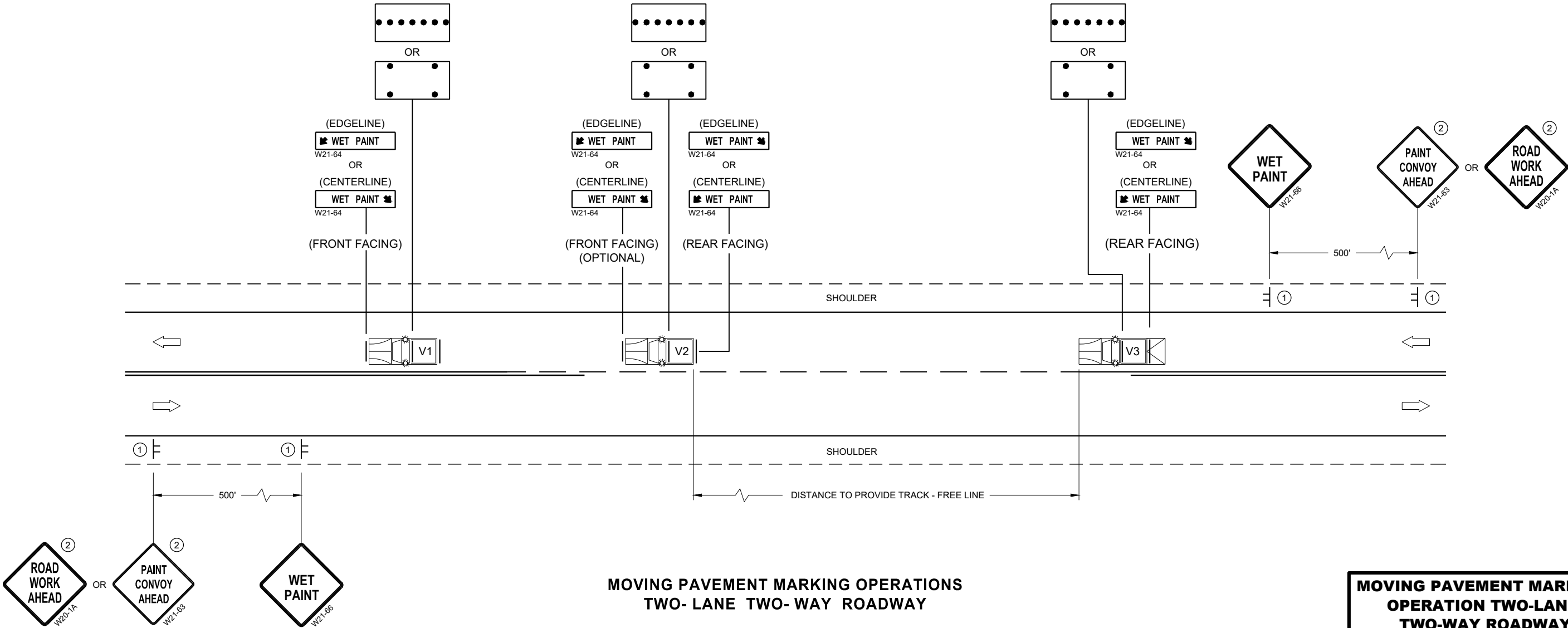
- V1 LEAD VEHICLE
- V2 MARKING VEHICLE
- V3 SHADOW VEHICLE
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

- ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.
- ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.
- 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 AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

- WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.
- CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

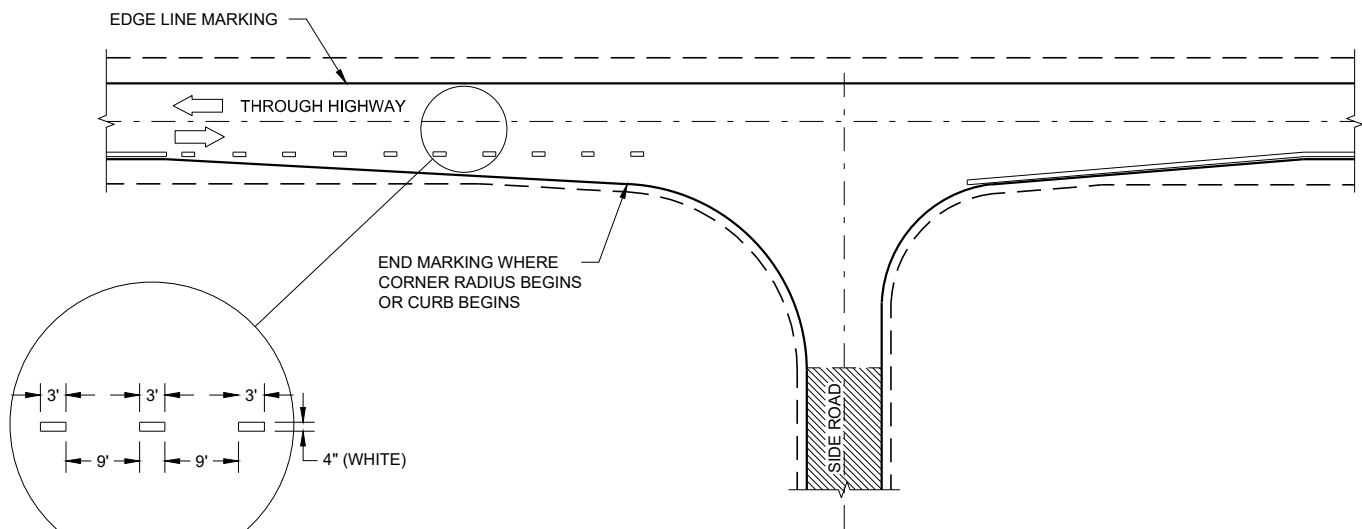


MOVING PAVEMENT MARKING OPERATIONS  
TWO-LANE TWO-WAY ROADWAY

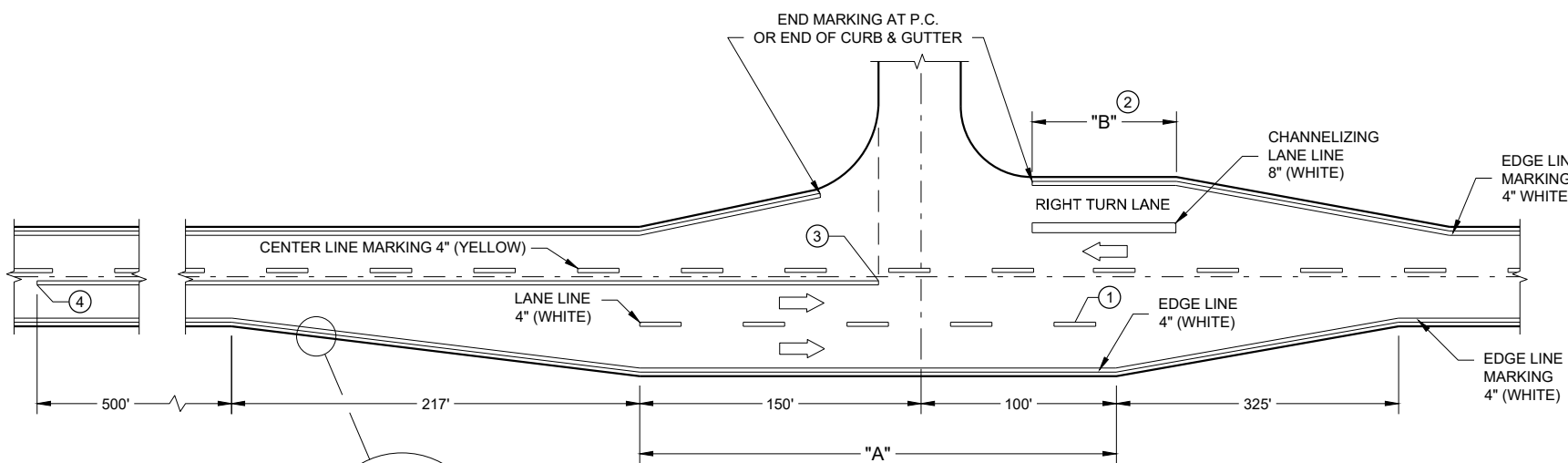
MOVING PAVEMENT MARKING  
OPERATION TWO-LANE  
TWO-WAY ROADWAY

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
November 2019 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER  
FHWA



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

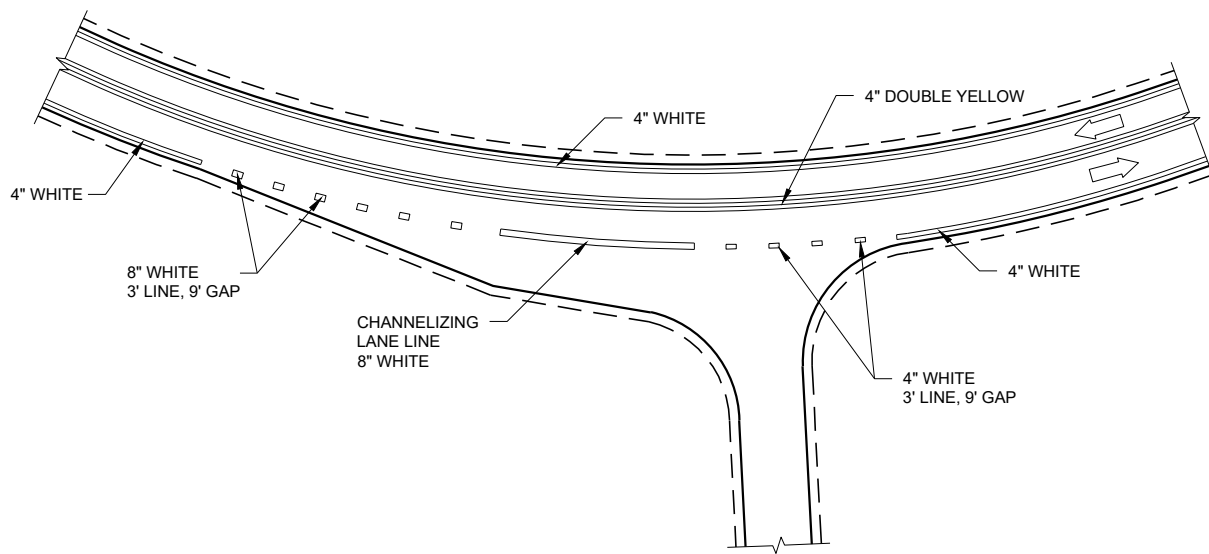
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

LEGEND

➡ DIRECTION OF TRAVEL

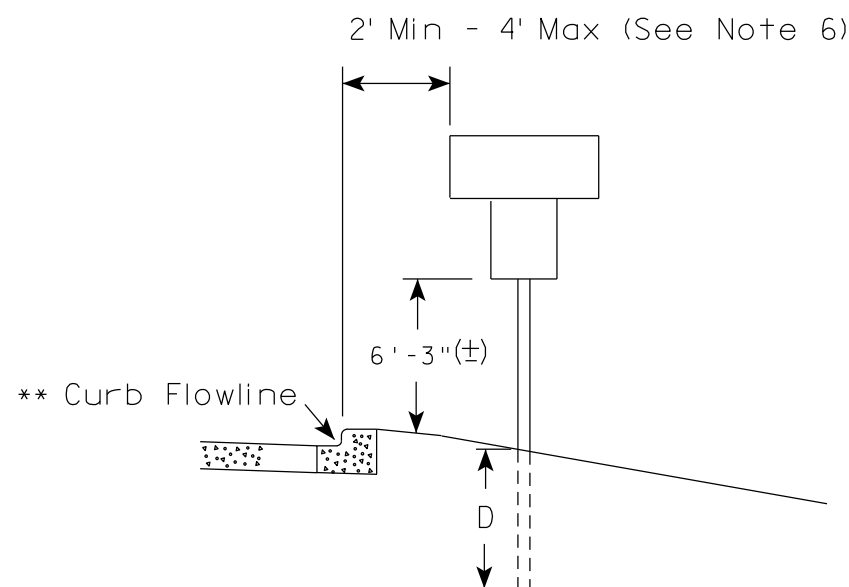
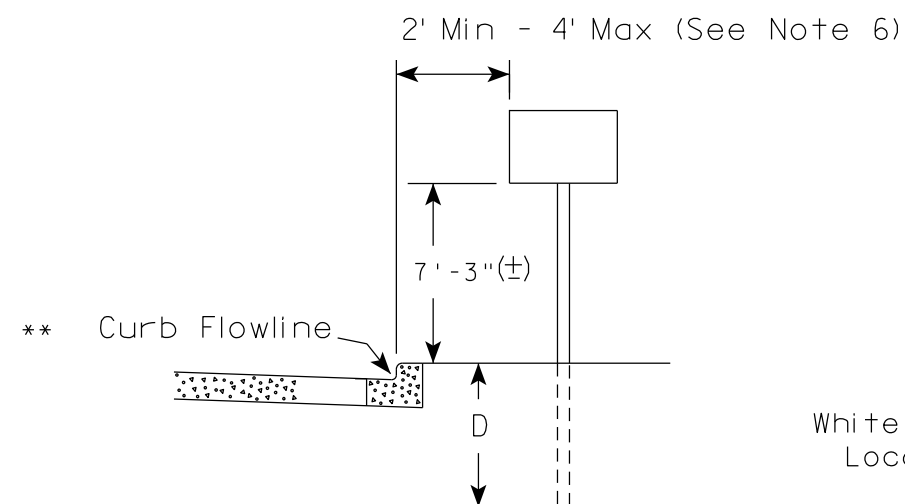


INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING  
(INTERSECTIONS)

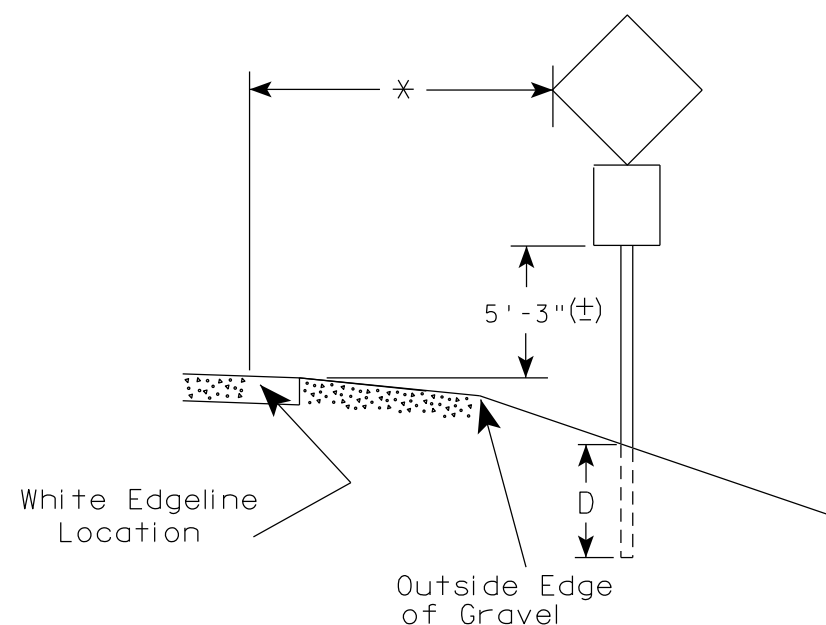
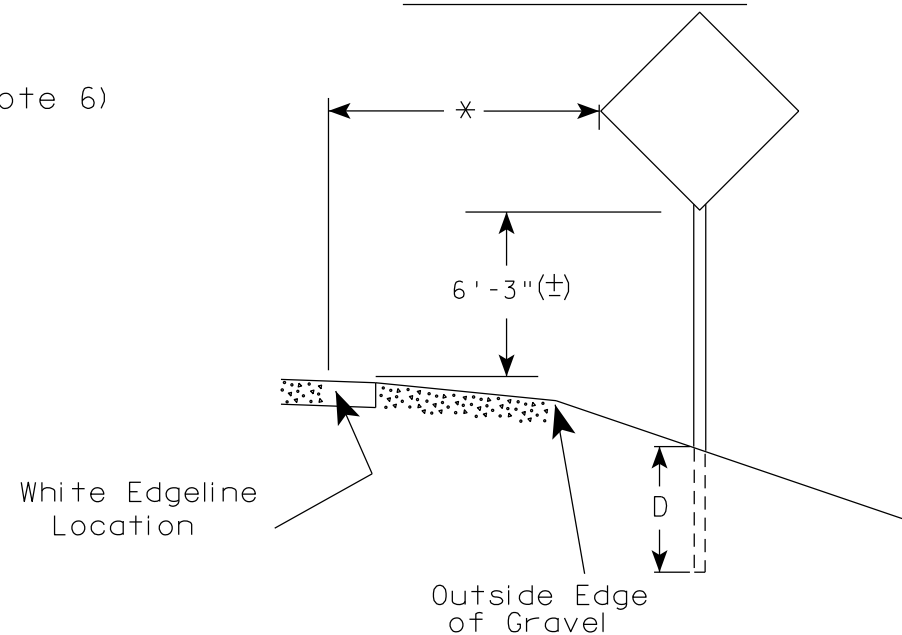
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

# URBAN AREA



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

# RURAL AREA (See Note 2)



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

## POST EMBEDMENT DEPTH

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

## GENERAL NOTES

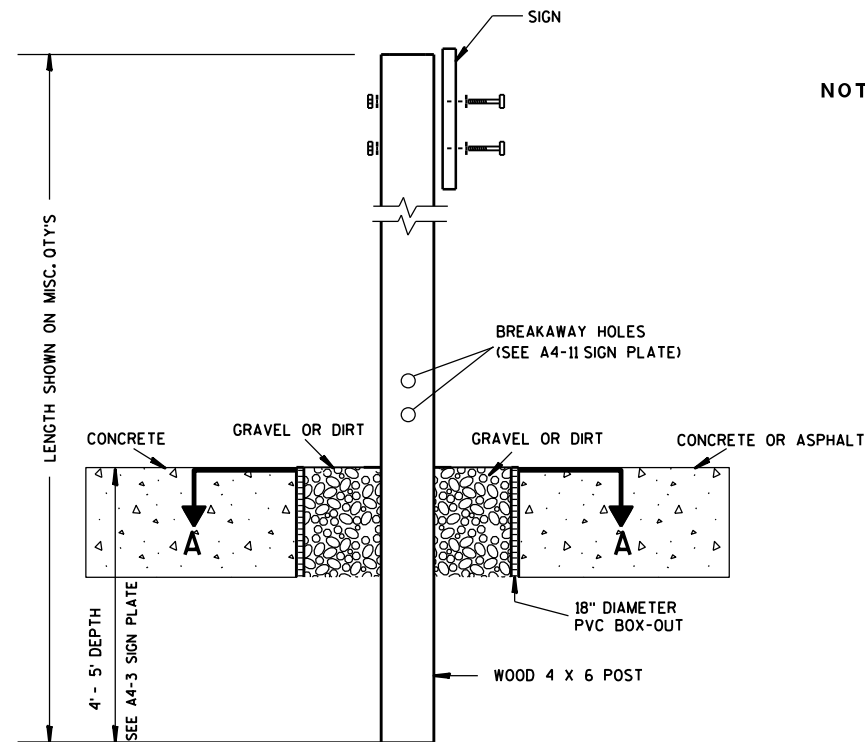
1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.  
The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (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" (±).
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 signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.

TYPICAL INSTALLATION  
OF PERMANENT TYPE II  
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

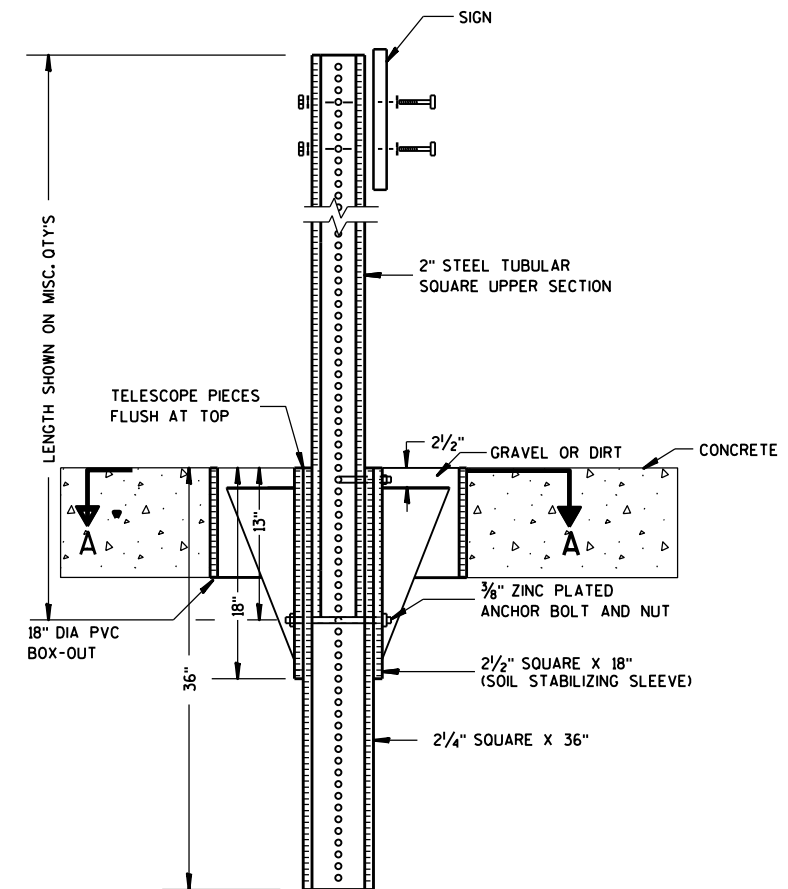
DATE 5/13/2020 PLATE NO. A4-3.22



### ELEVATION VIEW

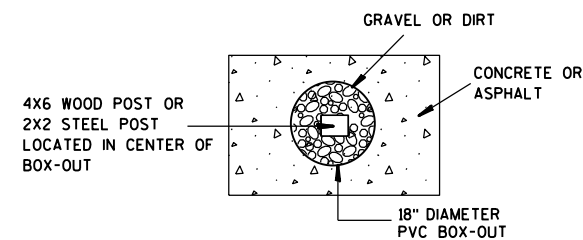
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



### ELEVATION VIEW

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



### PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST  
BOX-OUTS  
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer  
DATE 1/27/14 PLATE NO. A4-3B.1

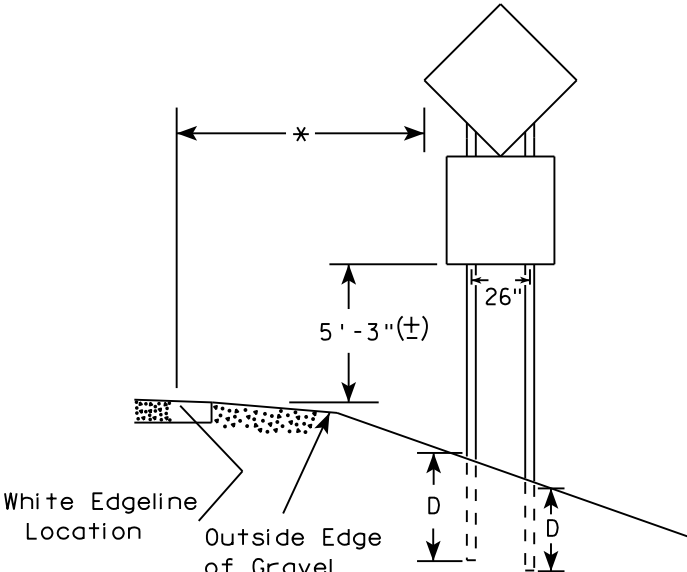
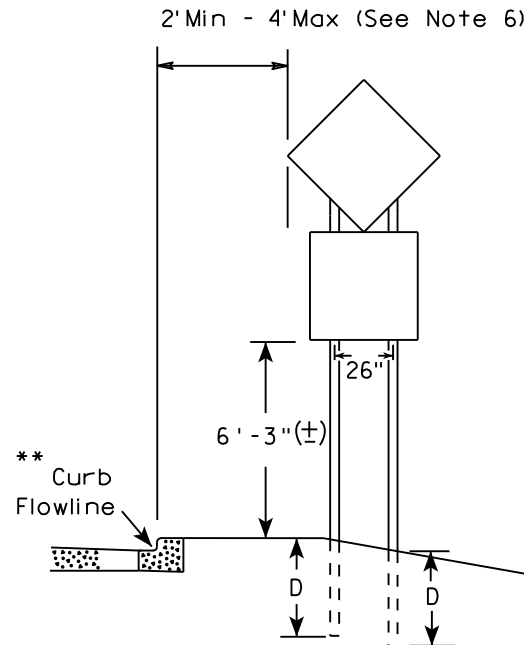
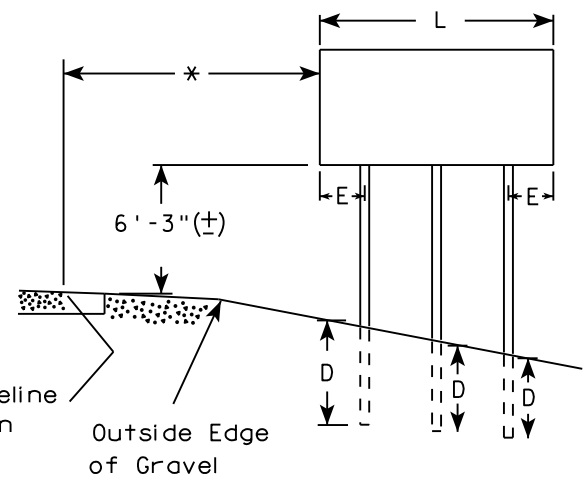
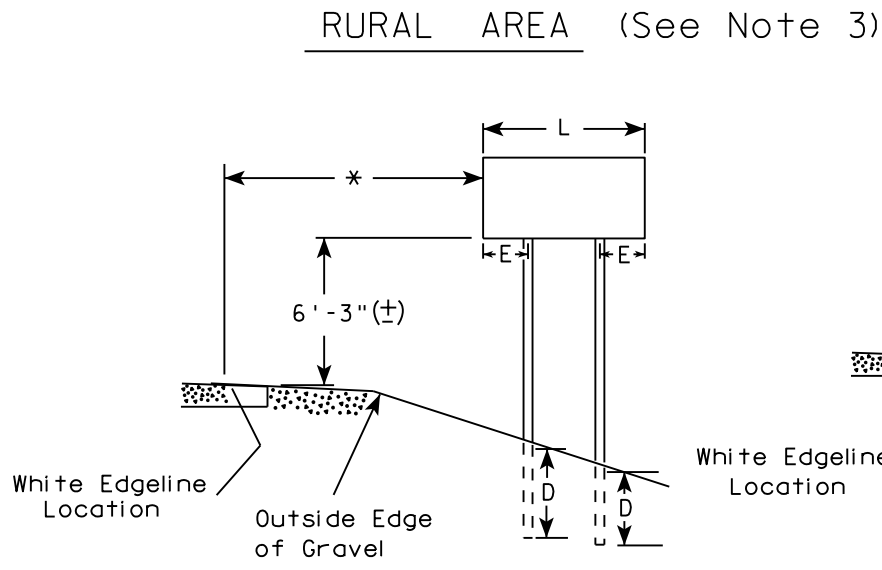
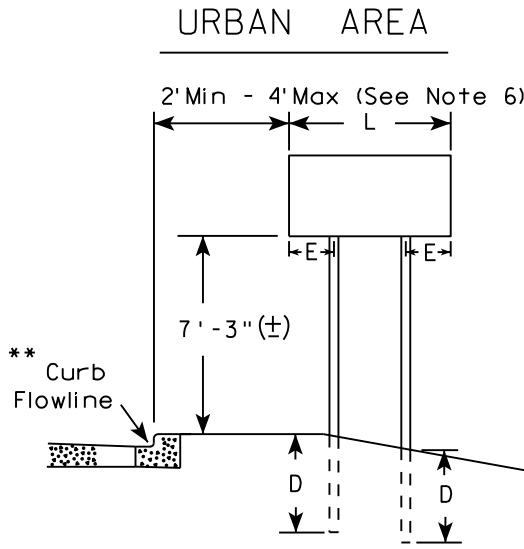
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



48" DIAMOND WARNING SIGN

48" DIAMOND WARNING SIGN

\*\*\*

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

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION  
OF TYPE II SIGNS  
ON MULTIPLE POSTS

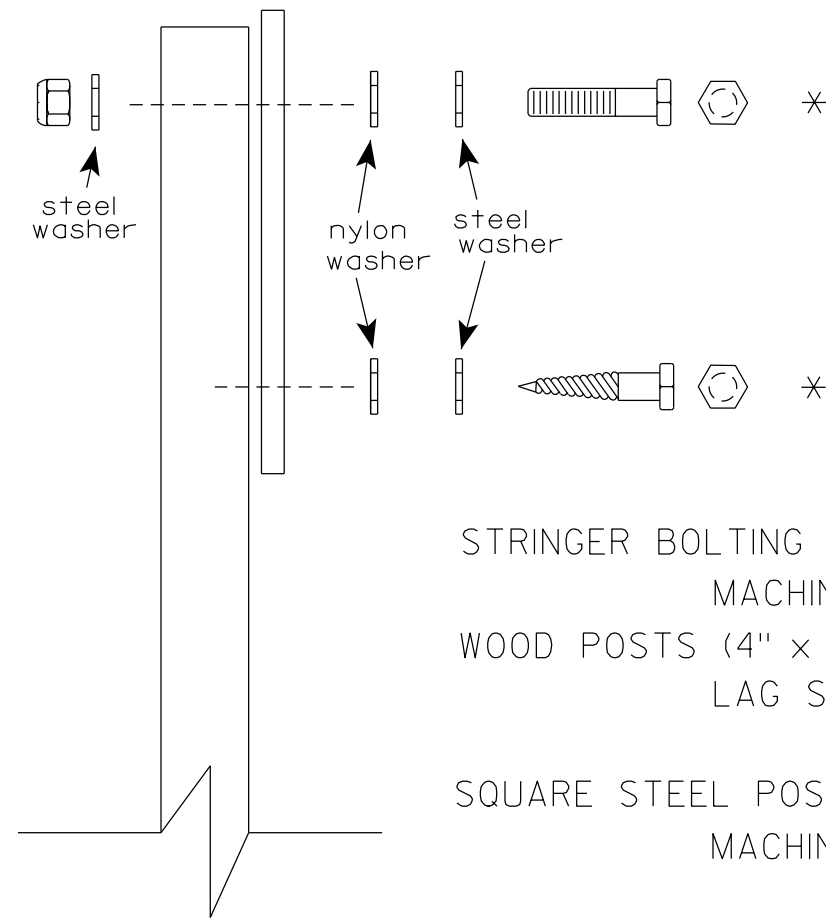
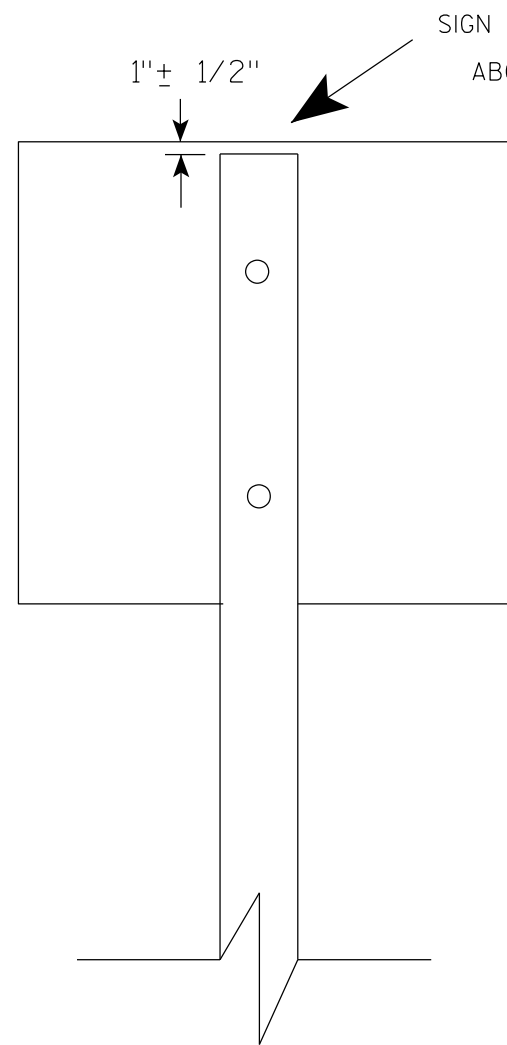
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

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

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

- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- \*\*\* See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.



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

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

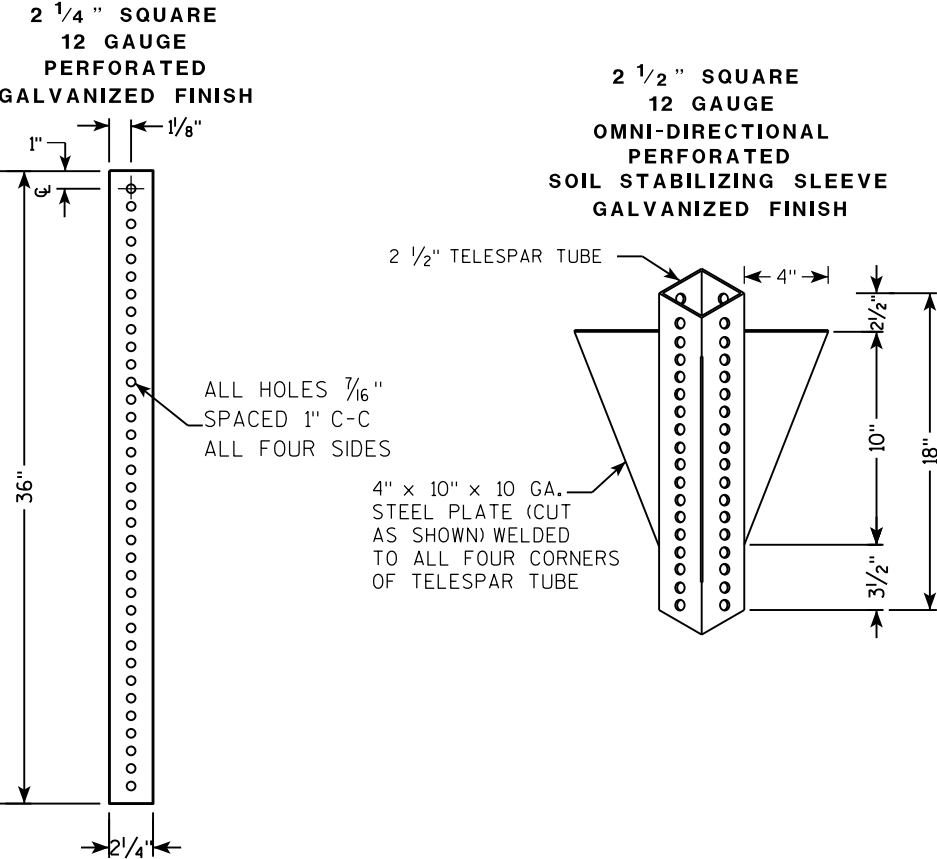
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS -  $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts
- WOOD POSTS (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

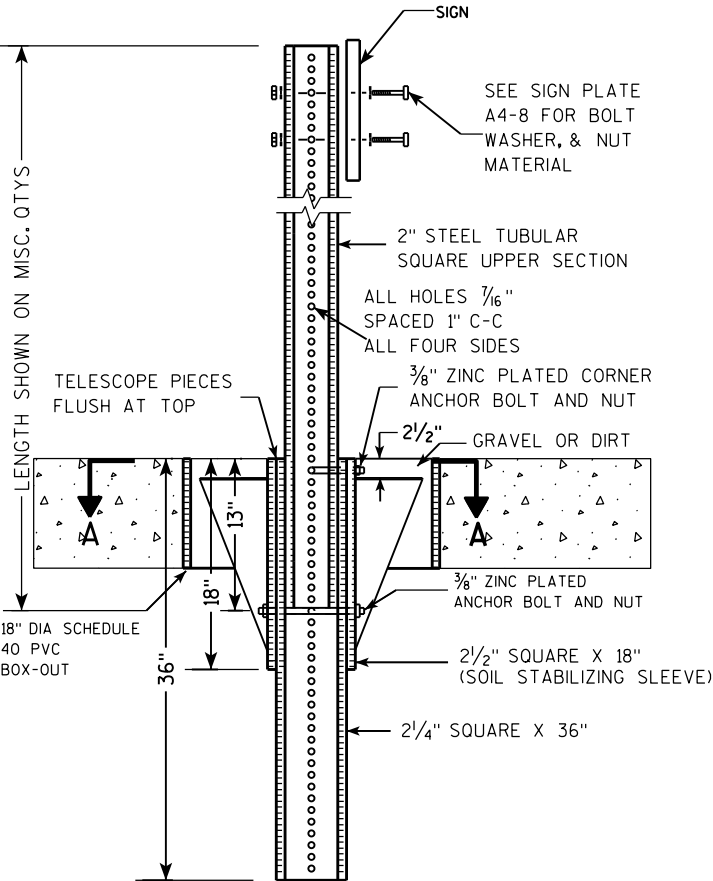
\* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require 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 4/1/2020	PLATE NO. A4-8.9

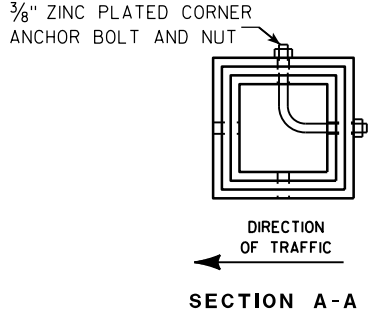
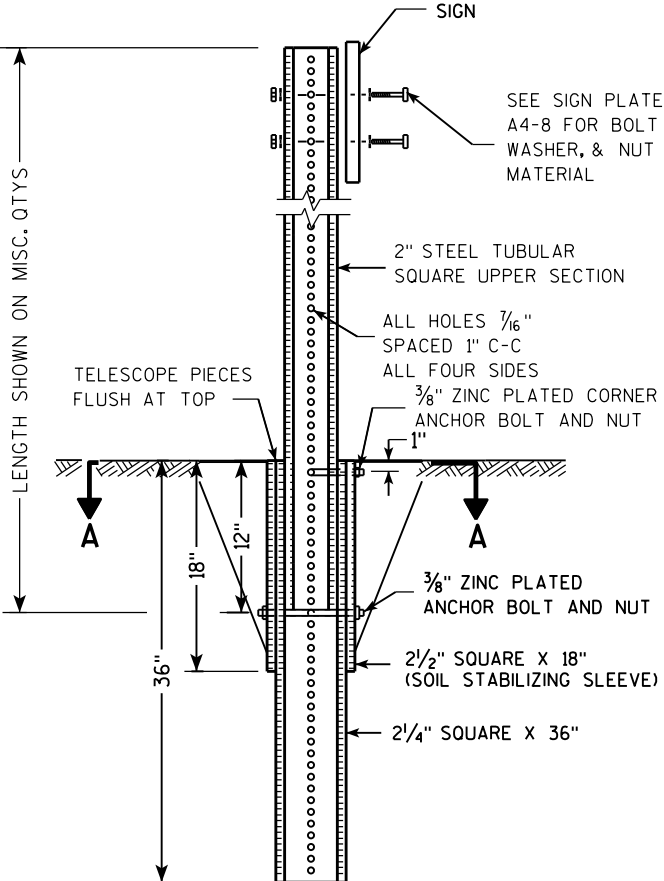
TELESCOPIC TUBING ANCHORS  
TWO PIECE SYSTEM



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



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



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

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

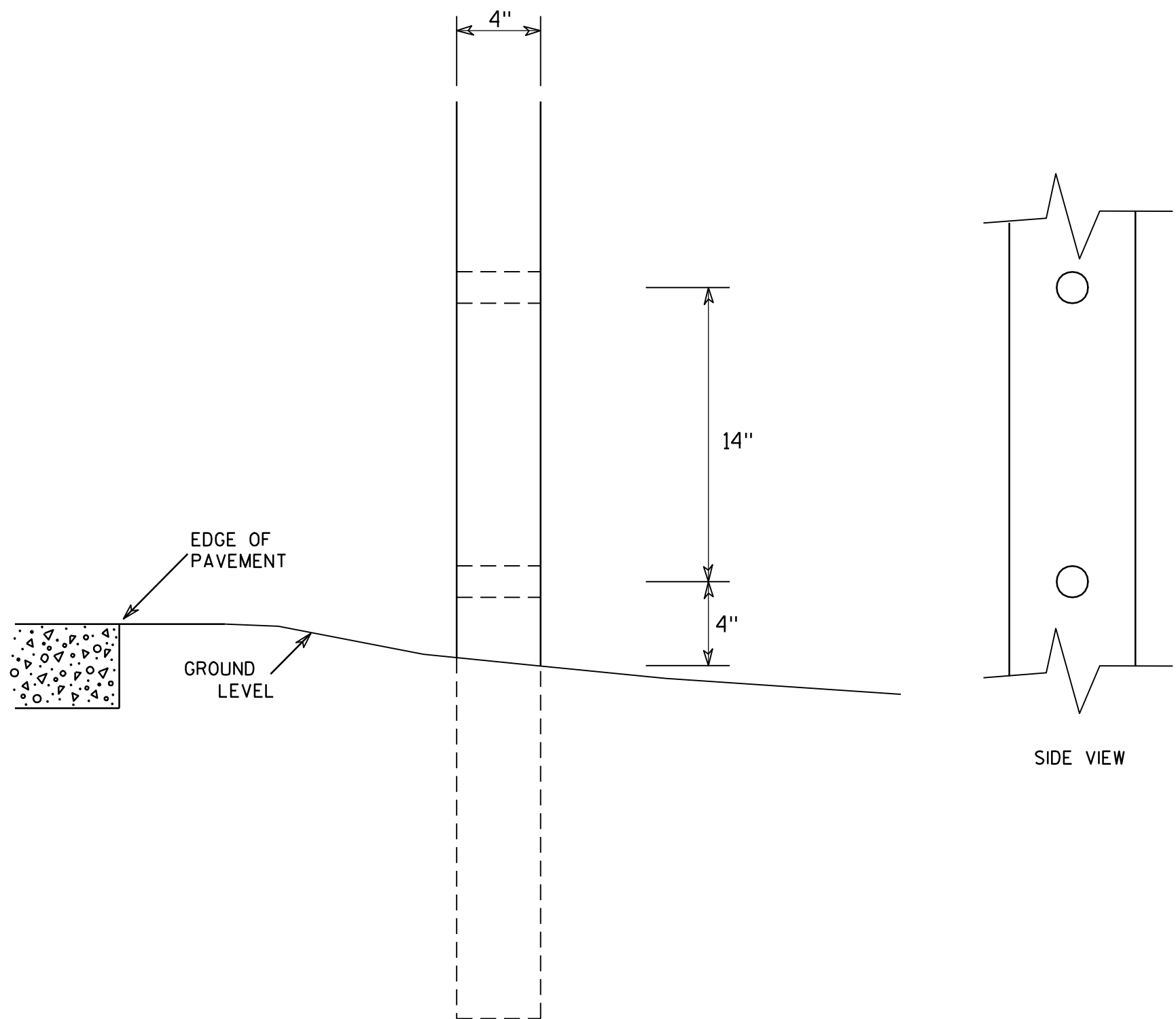
TUBULAR STEEL  
SIGN POST  
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

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

7



GENERAL NOTES

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

7

4 X 6 WOOD POST  
MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

*Chester J. Spang*  
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

HWY:

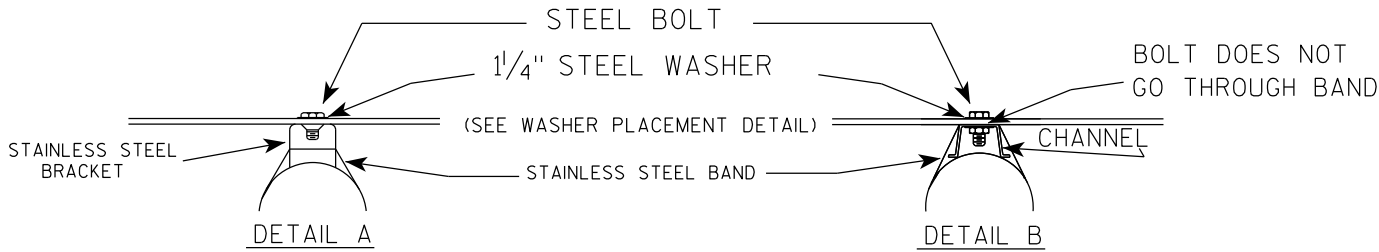
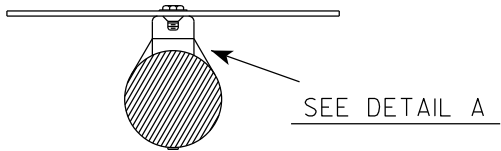
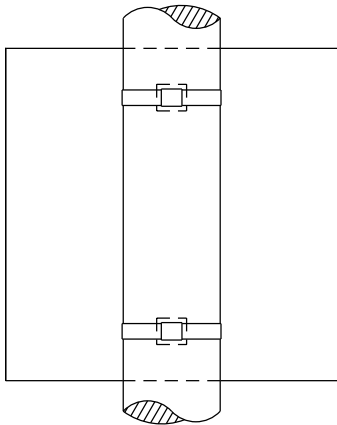
COUNTY:

SHEET NO:

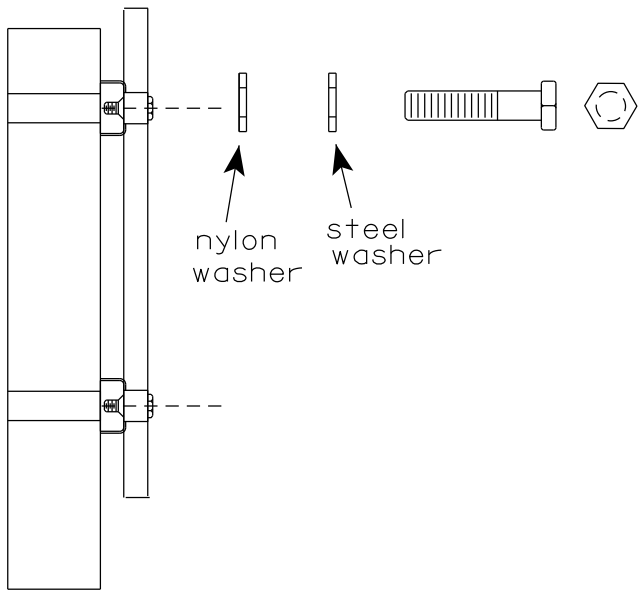
E

BANDING

SINGLE SIGN



WASHER PLACEMENT

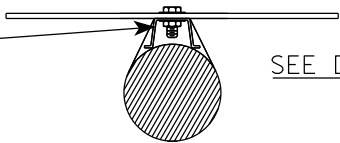
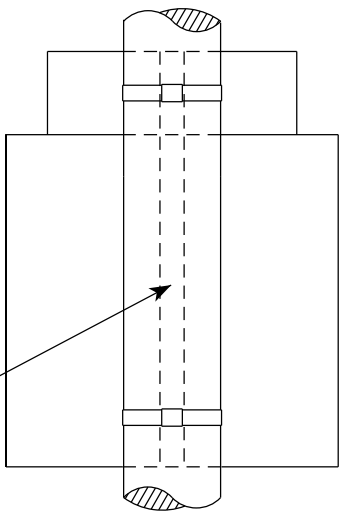


WASHERS (ALL POSTS) -  
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL  
1-1/4" O.D. X 3/8" I.D. X .080 NYLON  
FOR ALL TYPE H SIGNS

GENERAL NOTES

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

"J" ASSEMBLY

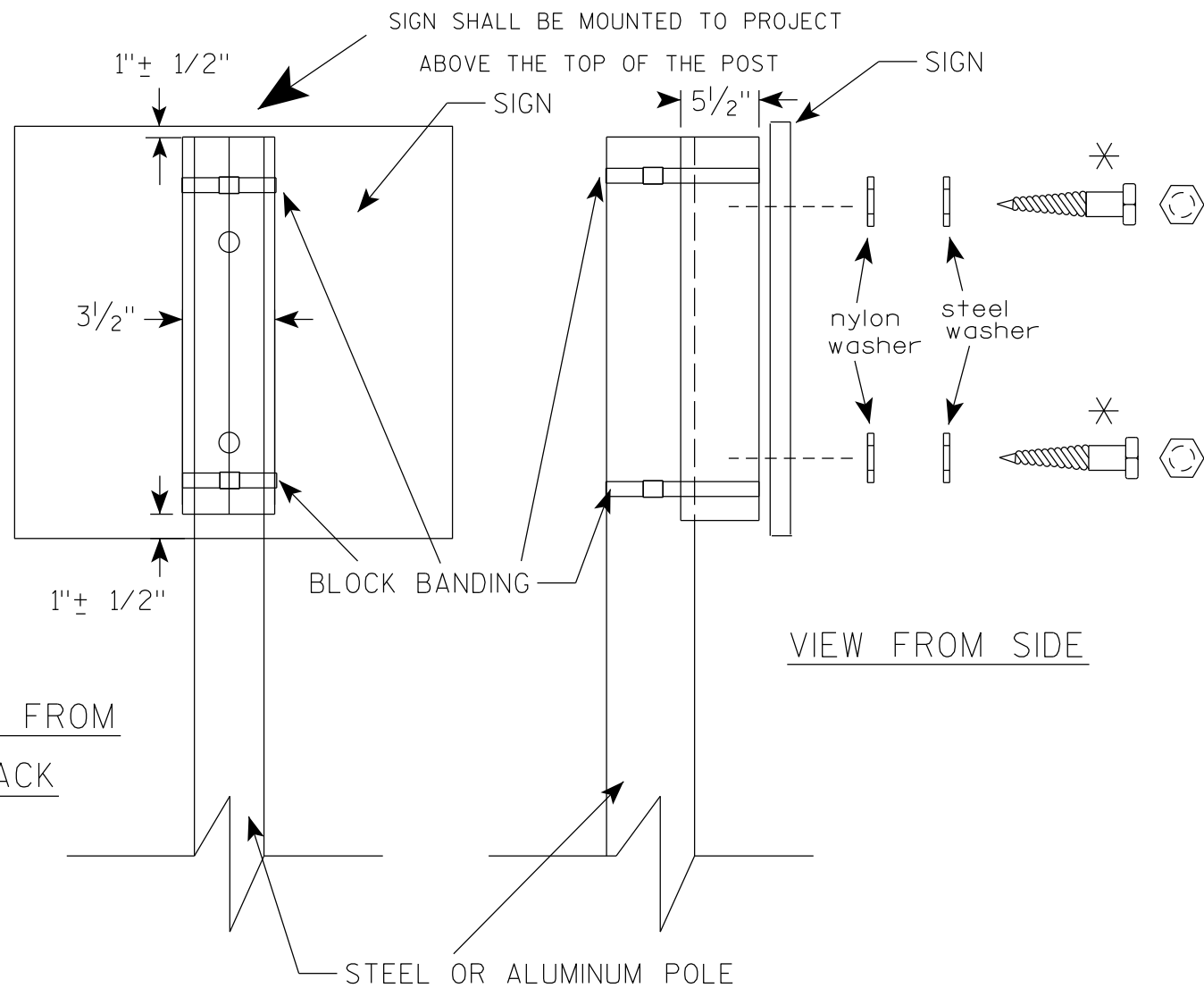


STANDARD SIGN  
SIGN BANDING DETAILS

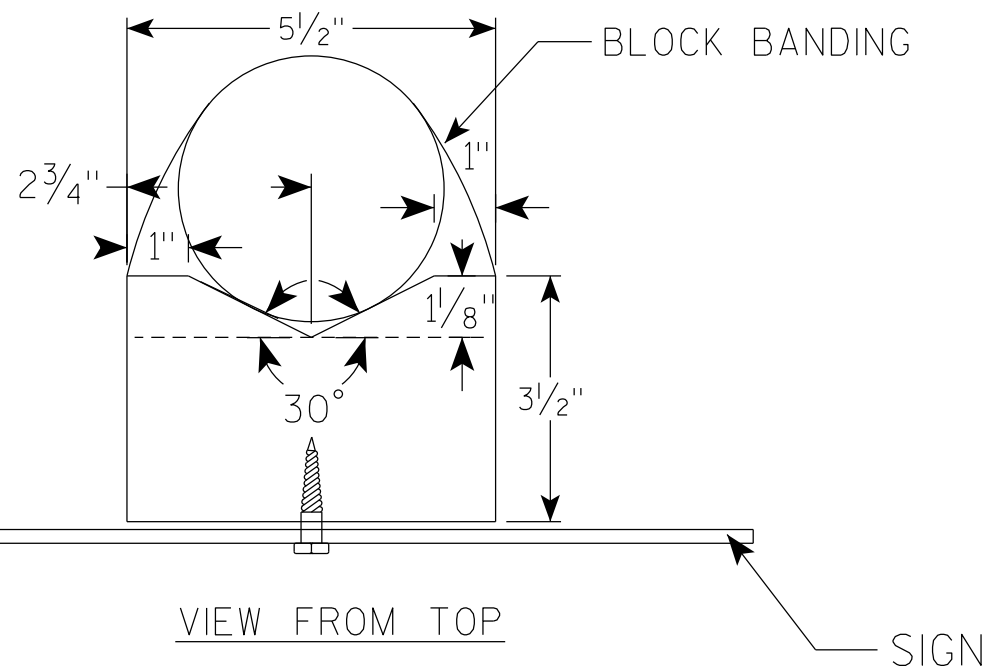
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer  
DATE 6/10/19 PLATE NO. A5-9.4

VIEW FROM  
BACK



VIEW FROM SIDE



## GENERAL NOTES

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

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

BLOCK BANDING DETAIL  
( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

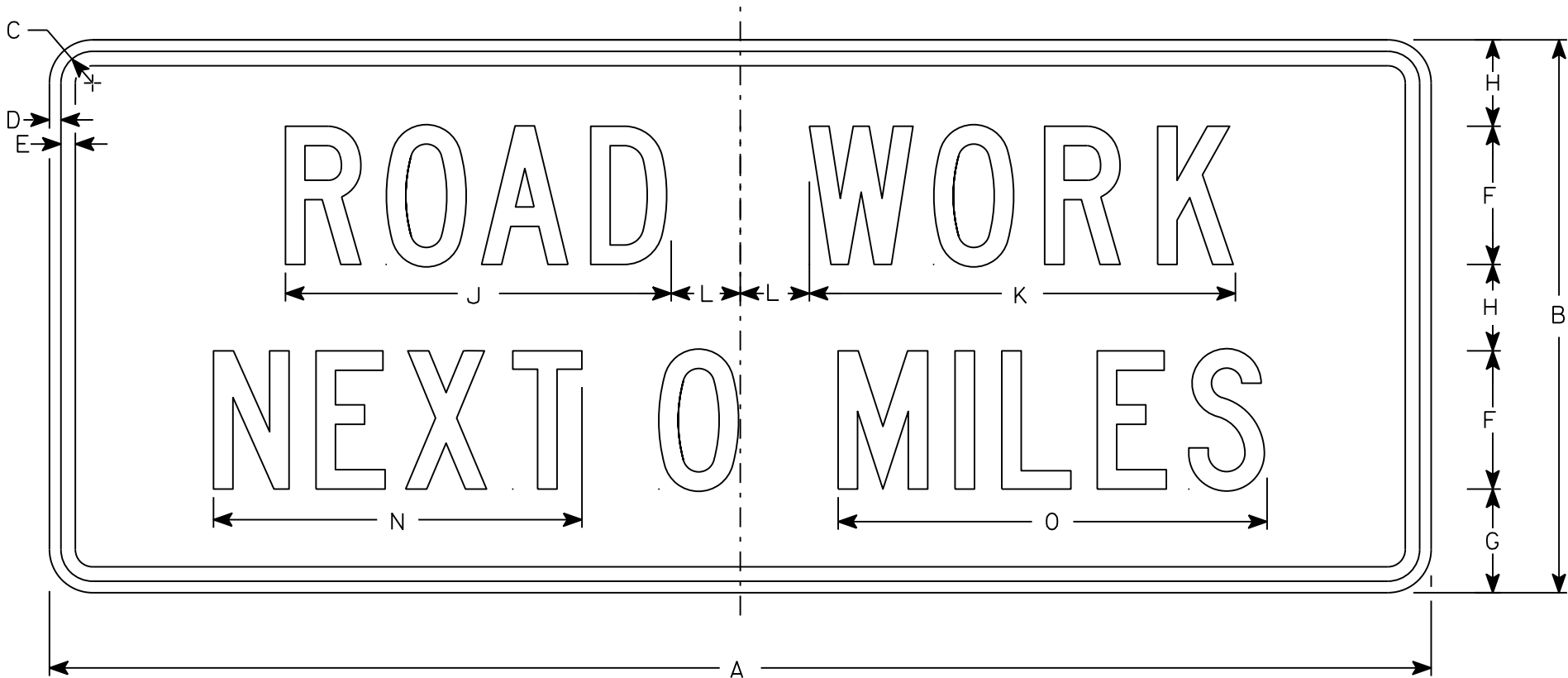
DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO:

SHEET NO:

E

7



G20-1

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:  
Background - Orange  
Message - Black
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

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																											
2	60	24	1 3⁄8	1⁄2	5⁄8	6	4 1⁄2	3 3⁄4		16 3⁄4	18 1⁄2	3		16	18 5⁄8												10
3																											
4	60	24	1 3⁄8	1⁄2	5⁄8	6	4 1⁄2	3 3⁄4		16 3⁄4	18 1⁄2	3		16	18 5⁄8												10
5																											

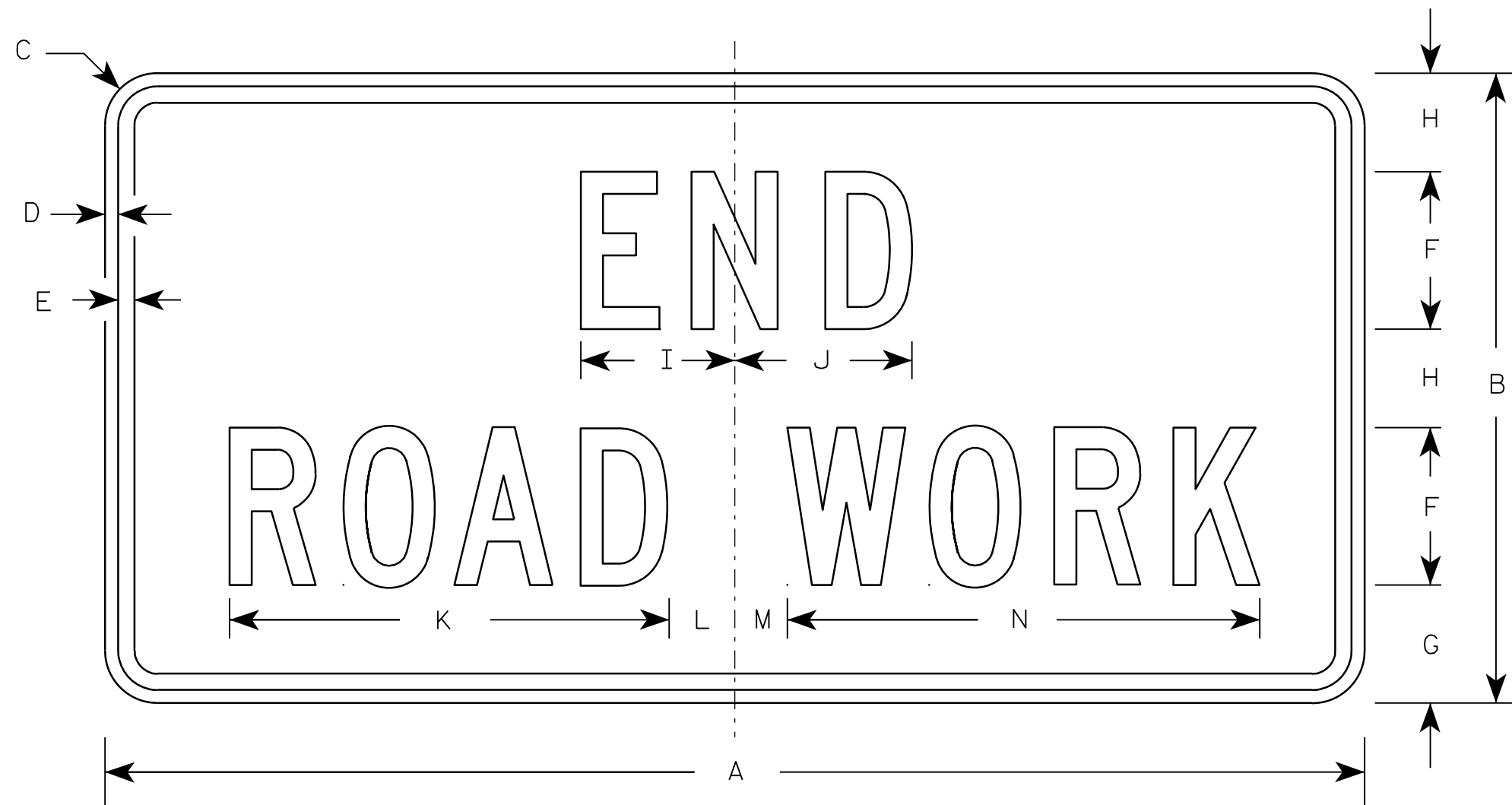
STANDARD SIGN  
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

7



G20-2A

Metric equivalent  
for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area sq. m
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

NOTES

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

7

PROJECT NO:

HWY:

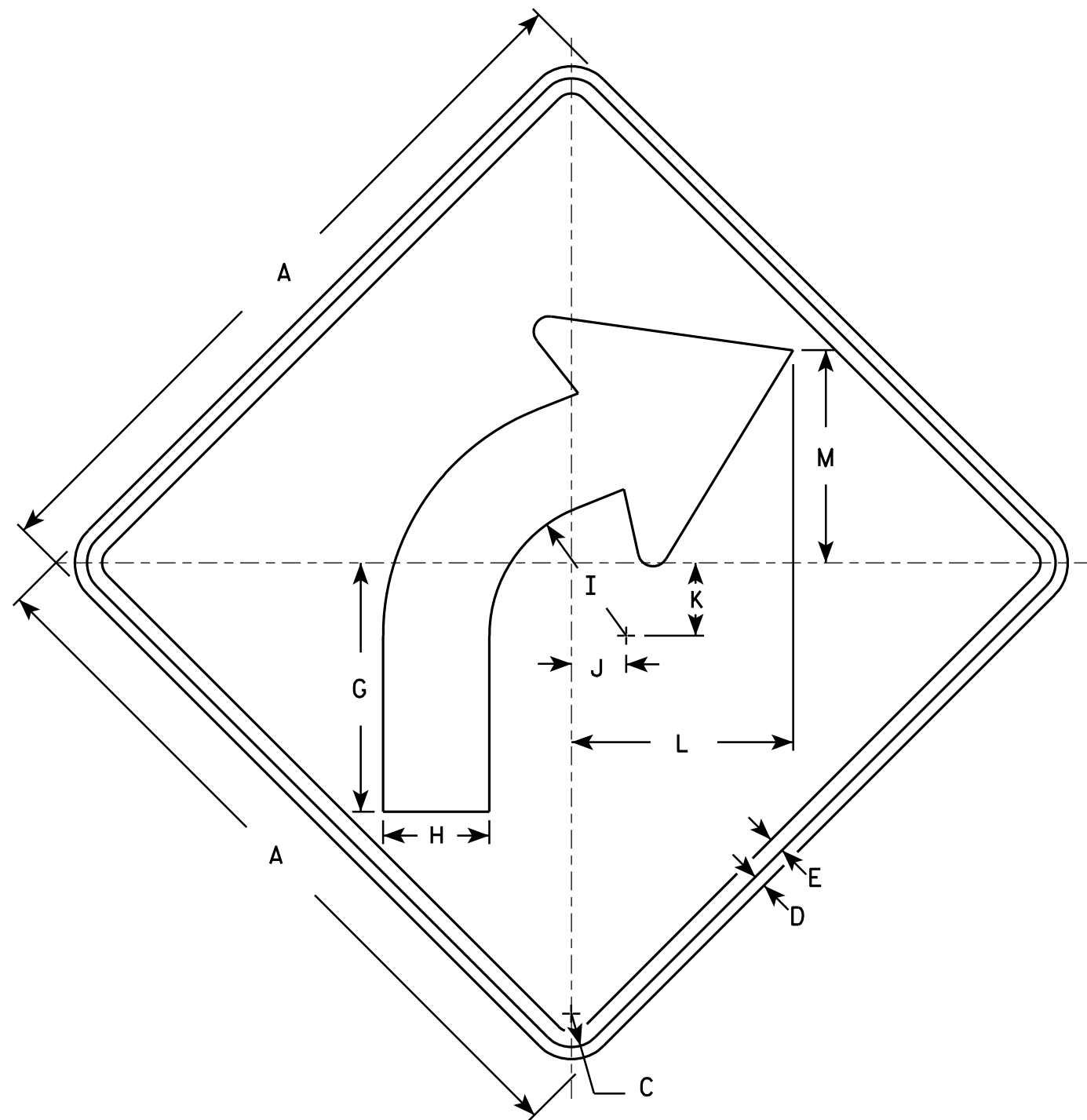
COUNTY:

SHEET NO:

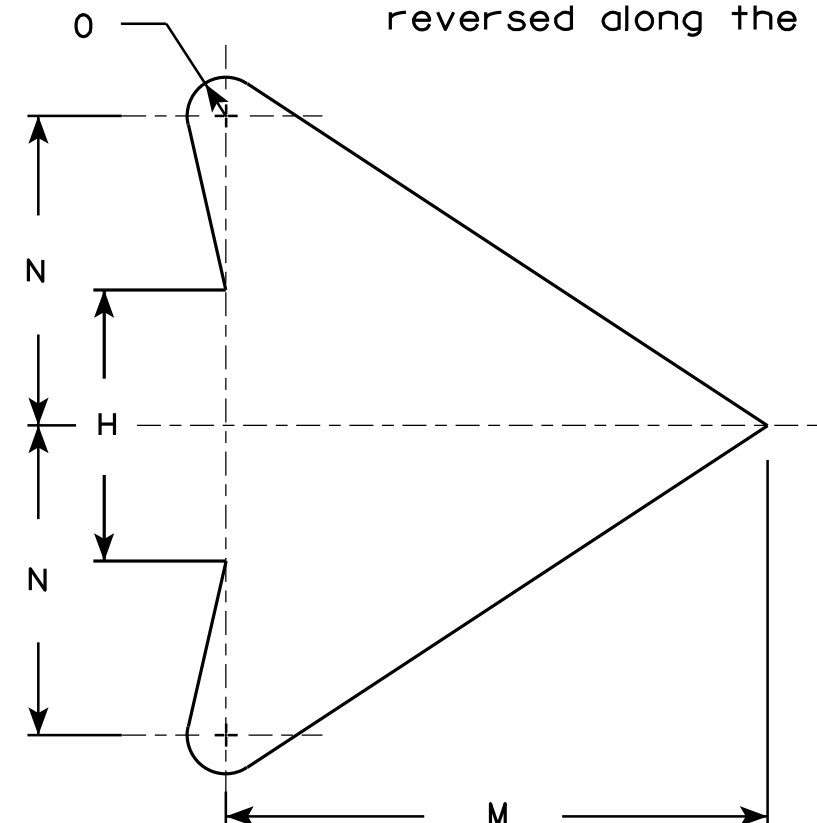
E

# NOTES

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



W1-2R



ARROW DETAIL

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

## STANDARD SIGN

W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

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

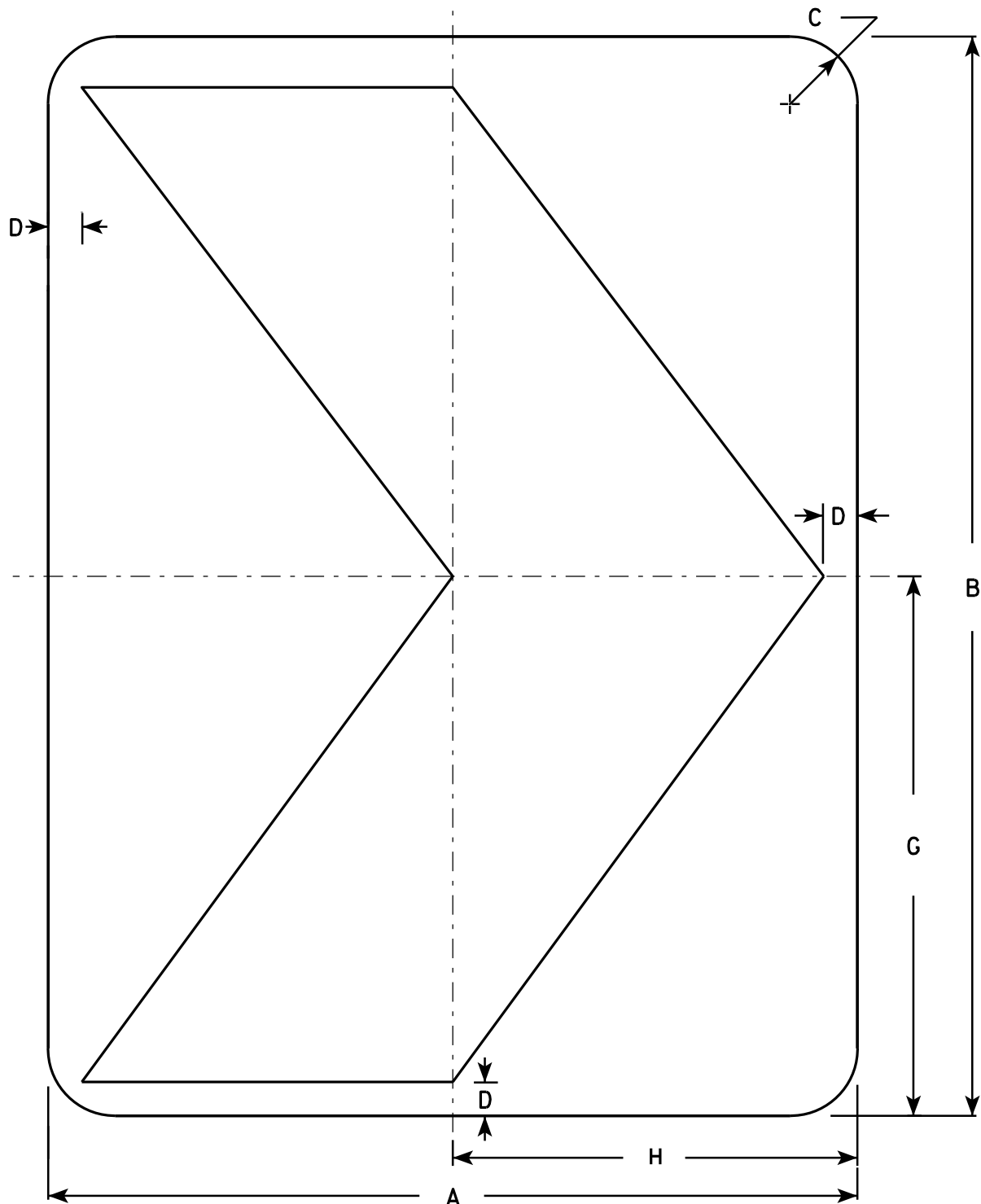
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



### NOTES

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

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

### STANDARD SIGN

W1-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

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

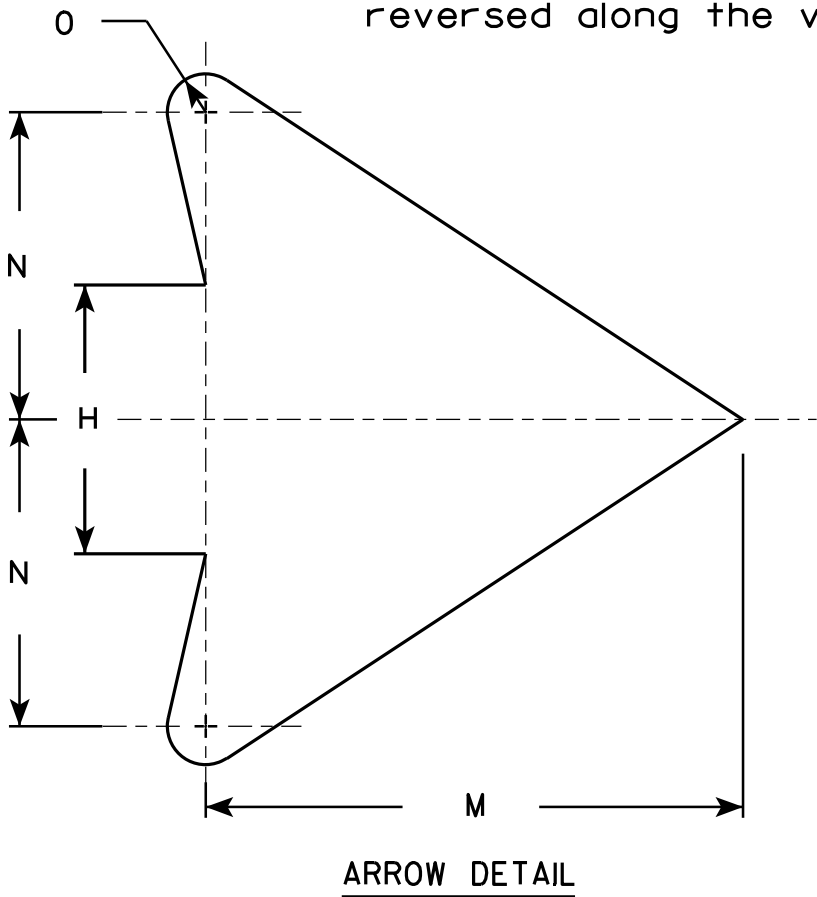
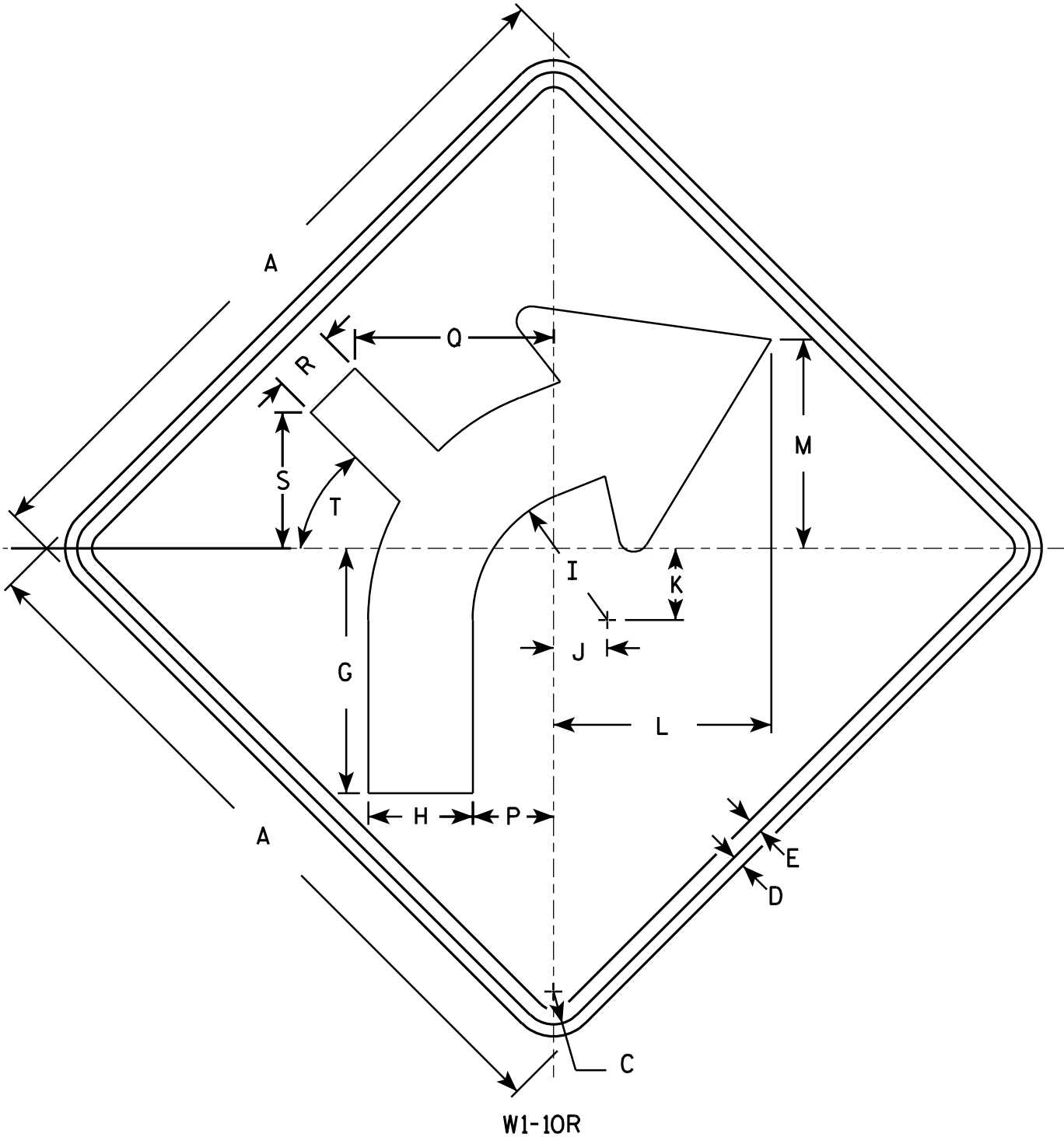
PROJECT NO:

SHEET NO:

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. W1-10L is the same as W1-10R 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		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2	2 5/8	6 5/8	2 1/8	4 1/2	45°							4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8	3 3/8	8 3/8	2 5/8	5 3/4	45°							6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4	4	10	3 1/4	6 7/8	45°							9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4	4	10	3 1/4	6 7/8	45°							9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4	4	10	3 1/4	6 7/8	45°							9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1	5 3/8	13 1/4	4 1/4	9 1/8	45°							16.0

STANDARD SIGN  
W1-10

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-10.3

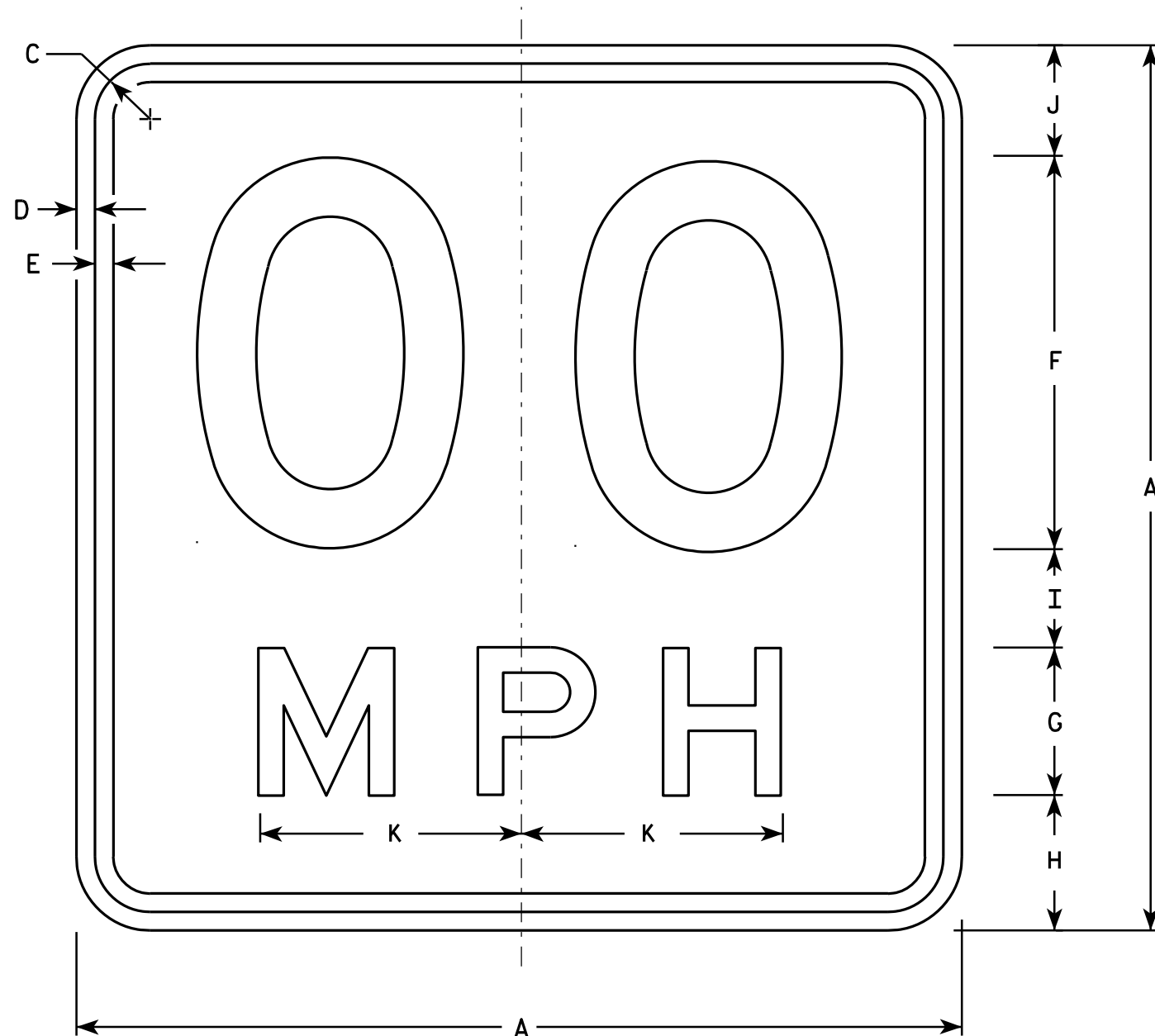
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



### NOTES

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

W13-1

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

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

### STANDARD SIGN

W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

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

PROJECT NO:

HWY:

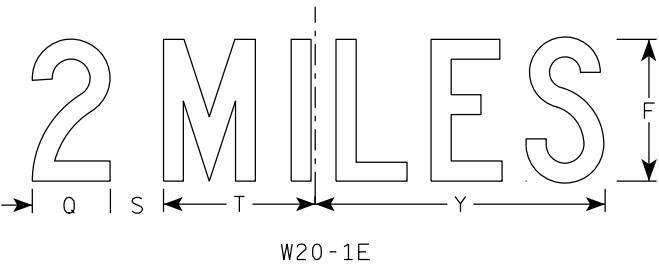
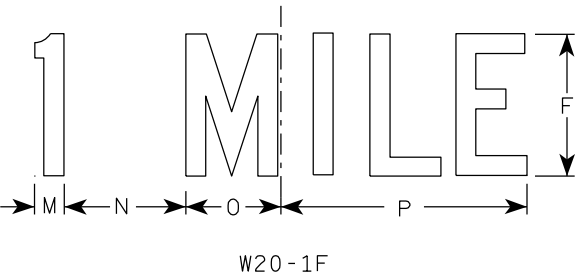
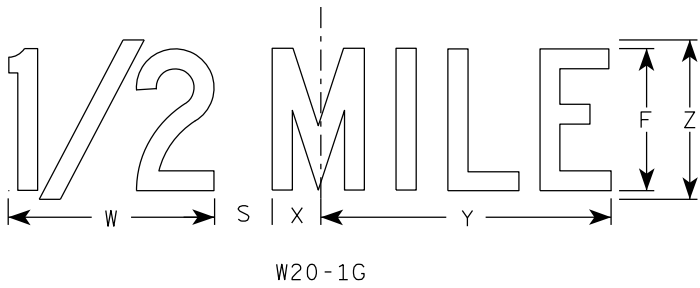
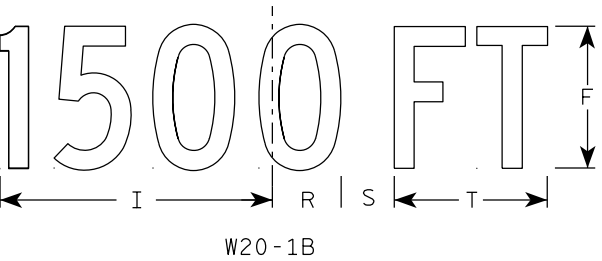
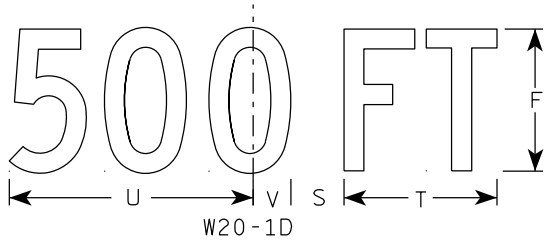
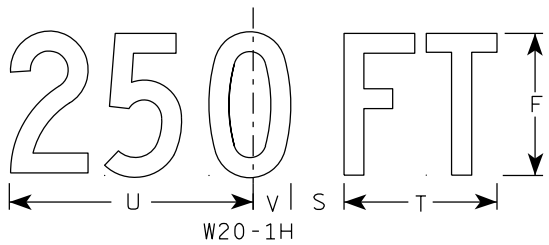
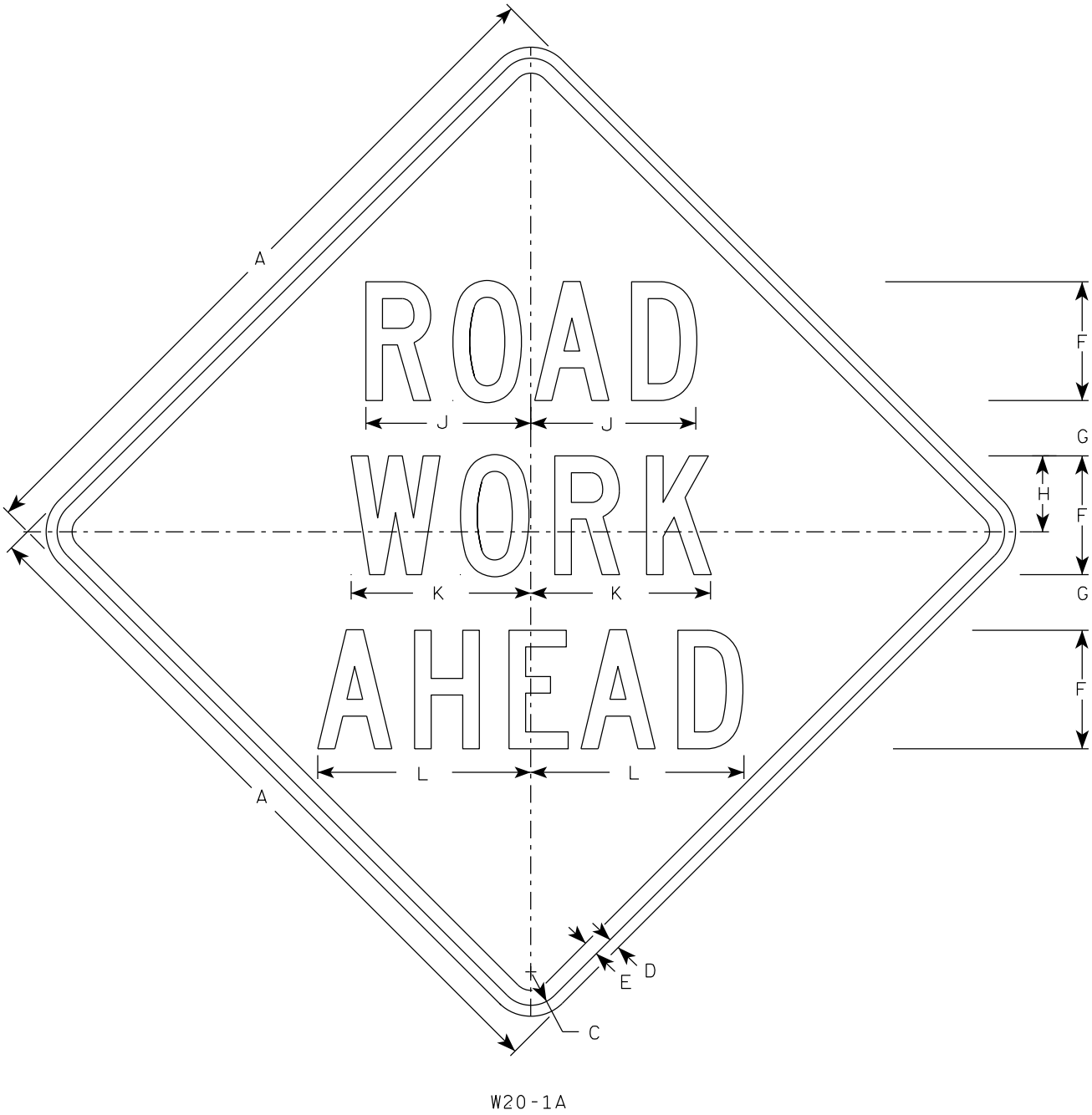
COUNTY:

SHEET NO:

E

NOTES

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



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

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

## Notes



## *Wisconsin Department of Transportation*

Dedicated people creating transportation solutions  
through innovation and exceptional service.

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