

RHI
PROJECT ID: 9240-10-70
WITH:
COUNTY: PRICE

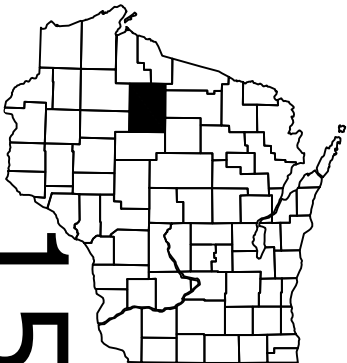
JUNE 2015	
ORDER OF SHEETS	
Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections
TOTAL SHEETS =	88

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT

PARK FALLS - SPRINGSTEAD
SAUNDERS AVENUE TO IRON COUNTY LINE
STH 182
PRICE

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9240-10-70		

STATE PROJECT NUMBER
9240-10-70



BEGIN PROJECT
STA 56+24.24
Y=502741.614
X=761062.546

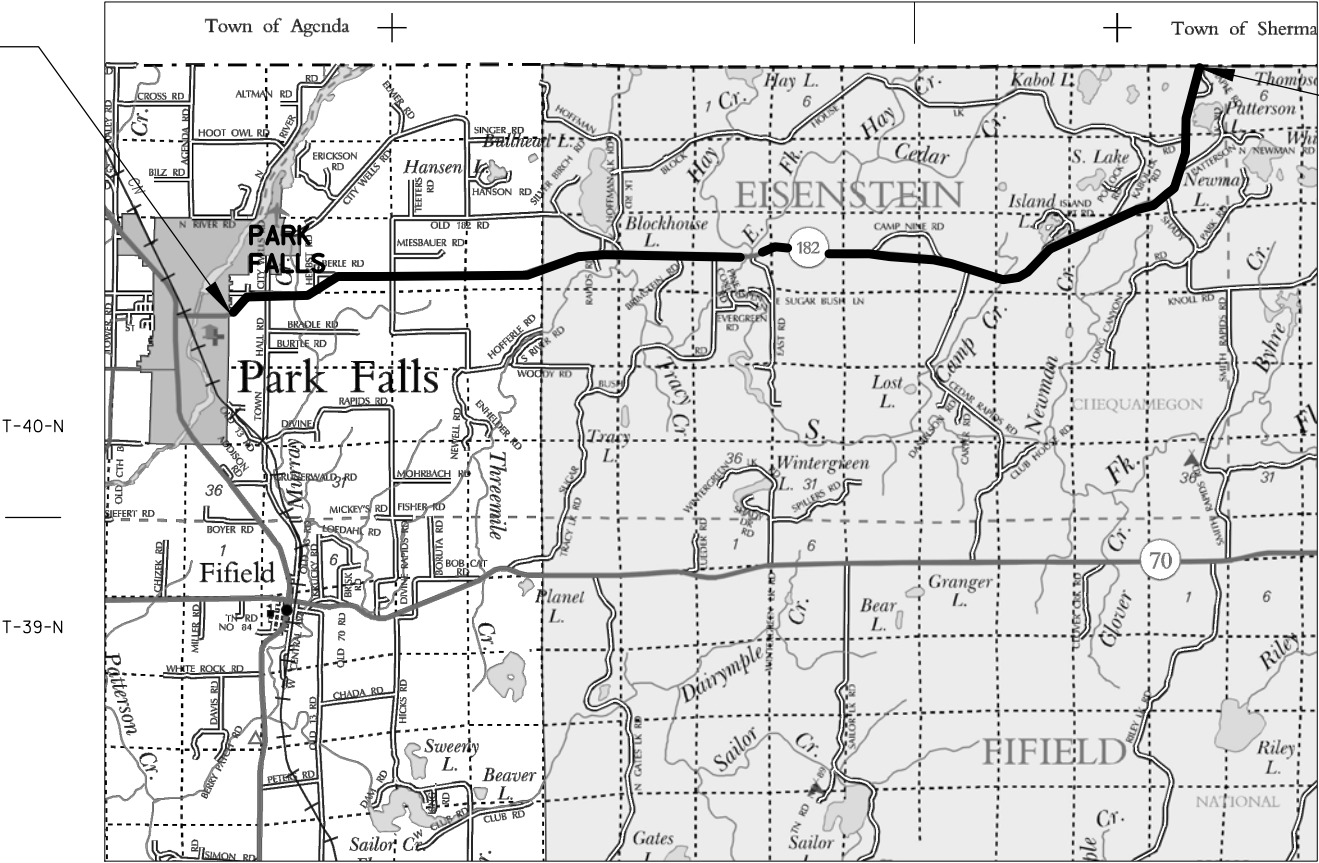
DESIGN DESIGNATION

A.A.D.T.	2010	=	1400 / 460
A.A.D.T.	2037	=	2000 / 660
D.H.V.		=	250
D.D.		=	58/42
T.		=	15.6
DESIGN SPEED		=	45 / 55 MPH
ESALS		=	204,200

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	CAUTION
MARSH AREA	---
WOODED OR SHRUB AREA	---

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



LAYOUT
SCALE 0 1.25 ml

TOTAL NET LENGTH OF CENTERLINE = 14.67

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, PRICE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.
ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

END PROJECT
STA 831+04

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	AL OLENIK
Designer	DAVE KIRCHER
Project Manager	MIKE GRAGE
Regional Examiner	CHERYL SIMON
Regional Supervisor	ROBIN STAFFORD
C.O. Examiner	
APPROVED FOR THE DEPARTMENT	
DATE: 04/08/15	(Signature)

GENERAL NOTES

SIDE ROADS, PRIVATE ENTRANCES, AND CULVERT PIPE STATIONING IS CALCULATED FROM PHOTOLOG AND IS APPROXIMATE.

WHEN THE QUANTITY OF BASE AGGREGATE DENSE OR HMA PAVEMENT TYPE E0.3 IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

THERE MAY BE UTILITY FACILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN ON THE PLAN

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER

CONTACTS

CENTURYLINK
BRIAN HUH
400 W. 9TH ST. N, SUITE 5
LADYSMITH, WI 54848
715-532-0023
CELL: 715-563-8294

PRICE ELECTRIC COOPERATIVE INC
ELECTRICITY
JASON WEIK
PO BOX 110
PHILLIPS, WI 54555
715-339-2155

XCEL ENERGY
ELECTRICITY
JASON McROBERTS
310 HICKORY HILLS LANE
PHILLIPS, WI 54555
715-737-1198
715-577-1137 CELL
jason.l.mcroberts@xcelenergy.com

WISCONSIN DNR
NORTHERN REGION
SHAWN HASELEU
810 W. MAPLE STREET
SPOONER, WI 54801
715-635-4228

US CORPS OF ENGINEERS (USCOE)
BILL SANDE
ST PAUL DISTRICT – REGULATORY
180 5TH STREET EAST
SUITE 700
ST PAUL, MN 55101
651-290-5191

PRICE COUNTY TELEPHONE COMPANY
PO BOX 108
PHILLIPS, WI 54555
715-339-2154
715-820-1110 CELL

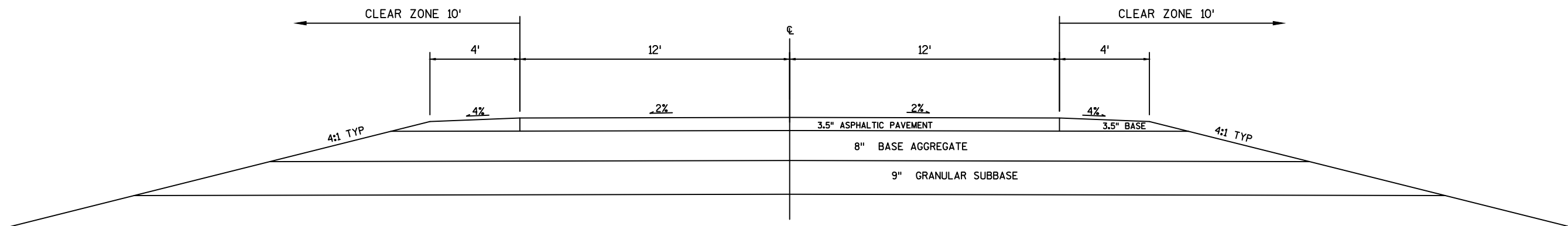
AS-BUILTS USED

t0701(1)
9240-04-70

DIGGERSHOTLINE

Dial  or (800)242-8511

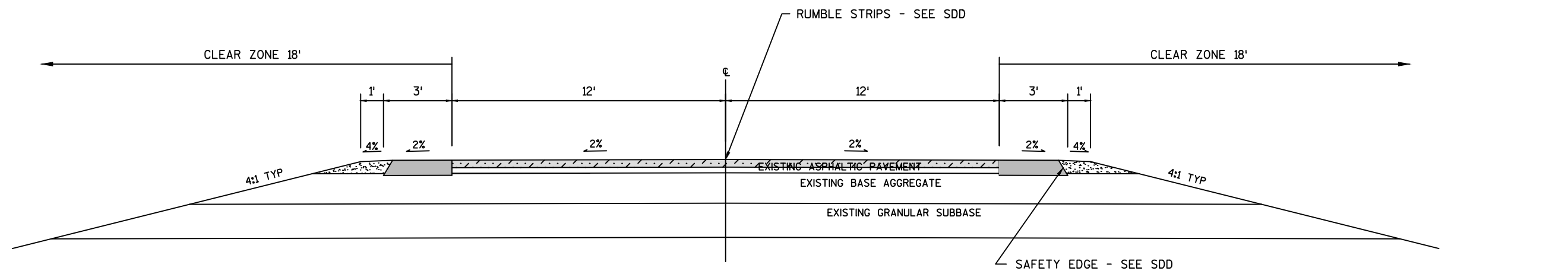
www.DiggersHotline.com



EXISTING TYPICAL SECTION

STH 182






STA 56+24.24 - STA 831+04

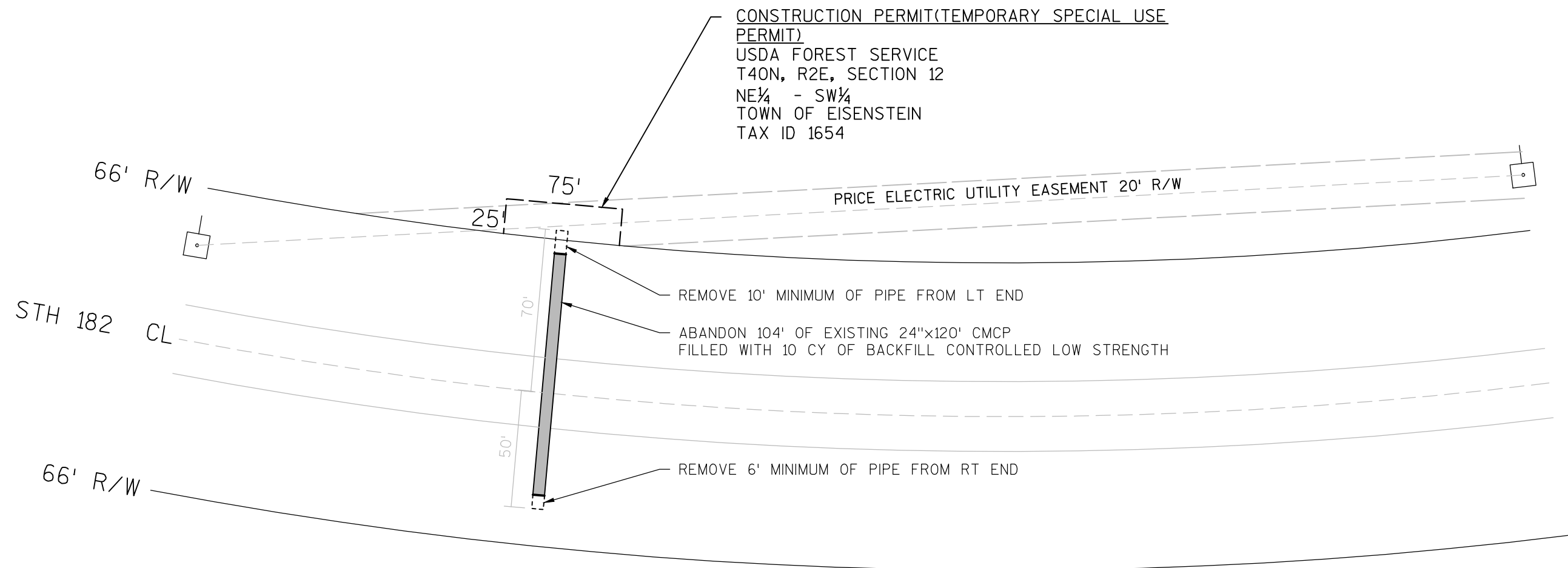


PROPOSED TYPICAL SECTION

STH 182

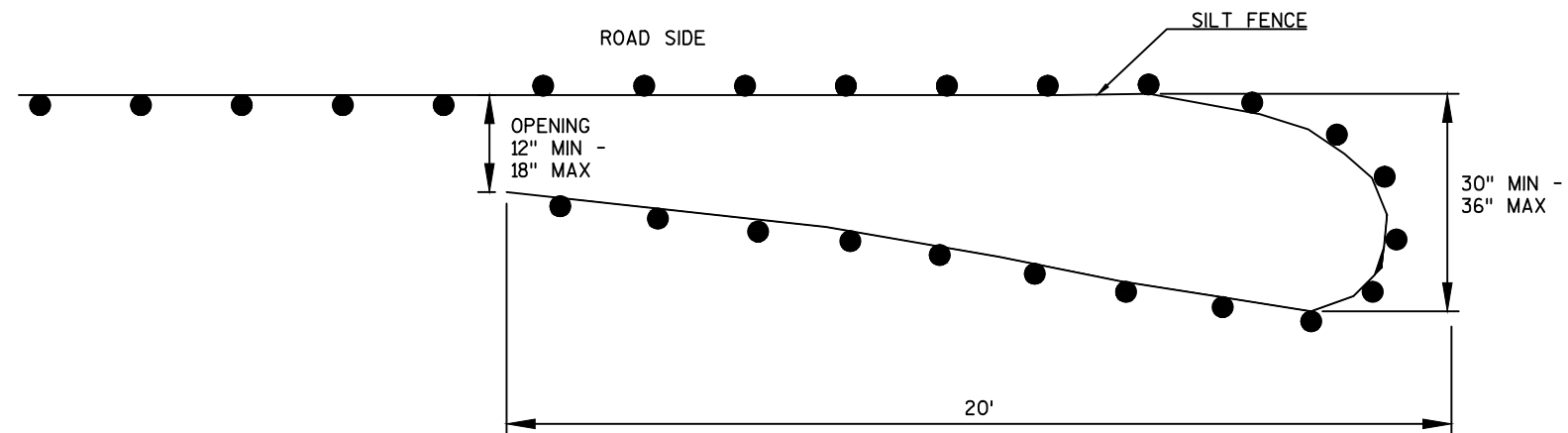
STA 56+24.24 - STA 831+04

-  REMOVING ASPHALTIC SURFACE MILLING 2 INCHES
-  2" HMA PAVEMENT TYPE E-0.3
-  PREP SHOULDERS FOR ASPHALTIC SURFACE
-  4" HMA PAVEMENT SHOULDERS TYPE E-0.3
2" UPPER LAYER (12.5mm)
2" LOWER LAYER (12.5mm)
-  BASE AGGREGATE DENSE 3/4-INCH



ABANDONING CULVERT PIPES

STA 741+05 50-182-47

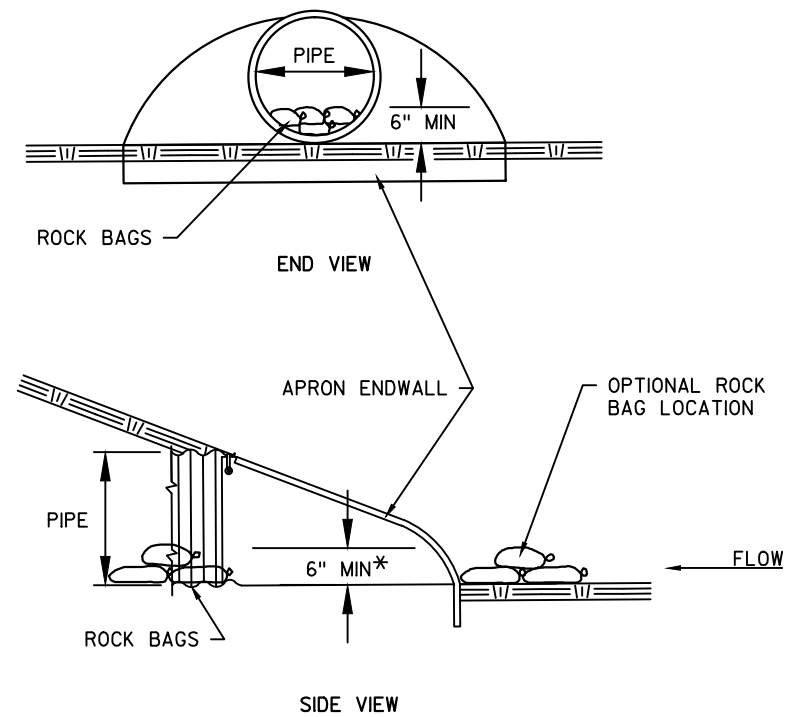


PLAN VIEW

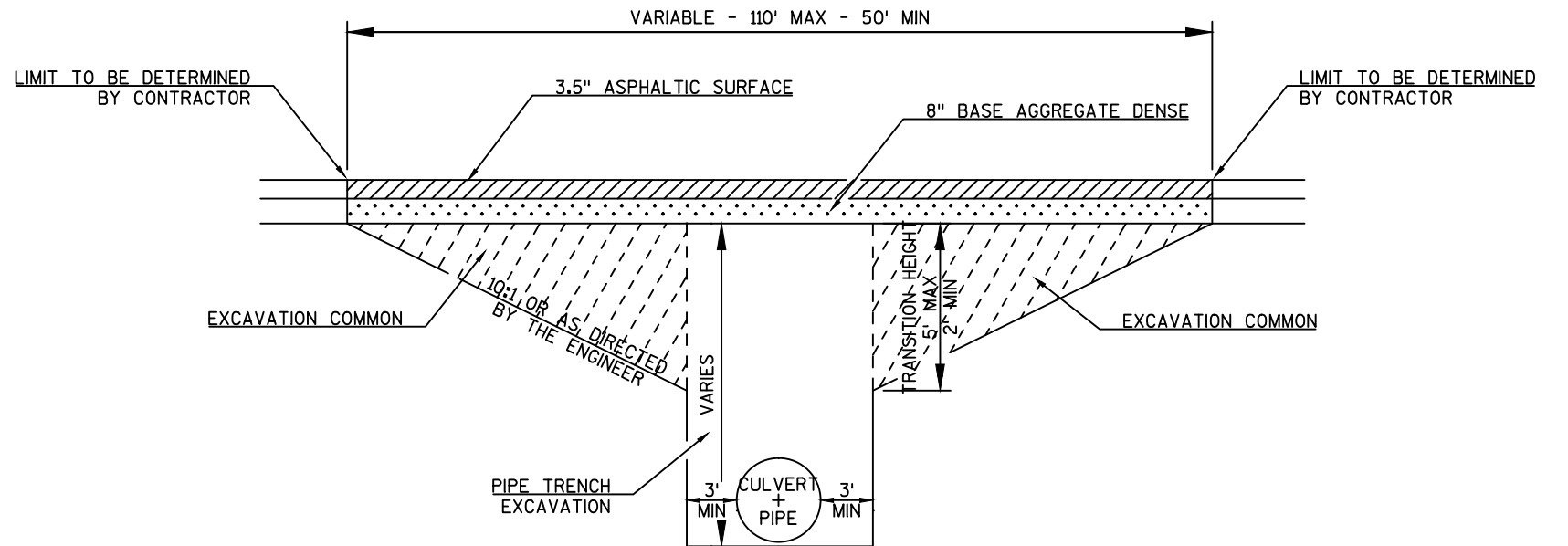
GENERAL NOTES:

THE PURPOSE OF THE TURTLE TURN-AROUNDS ARE TO REDIRECT THE TURTLES AWAY FROM THE CONSTRUCTION ZONE.
DESIGN SHOULD ALSO INCLUDE TRENCHES IN SEDIMENT FENCING AND FENCING SUPPORTS ON UPSLOPE SIDE OF FENCE.
SILT FENCE POSTS FOR THE TURN-AROUND SHOULD BE ON THE OUTSIDE OF THE TURN-AROUND.

TEMPORARY TURTLE TURN-AROUND



CULVERT PIPE CHECK
(INSTALL ON INLET END ONLY)



QUANTITIES FOR INFORMATIONAL PURPOSE

TRANSITIONAL HEIGHT FT	CUT VOL CY
2	50
3	115
4	200
5	315

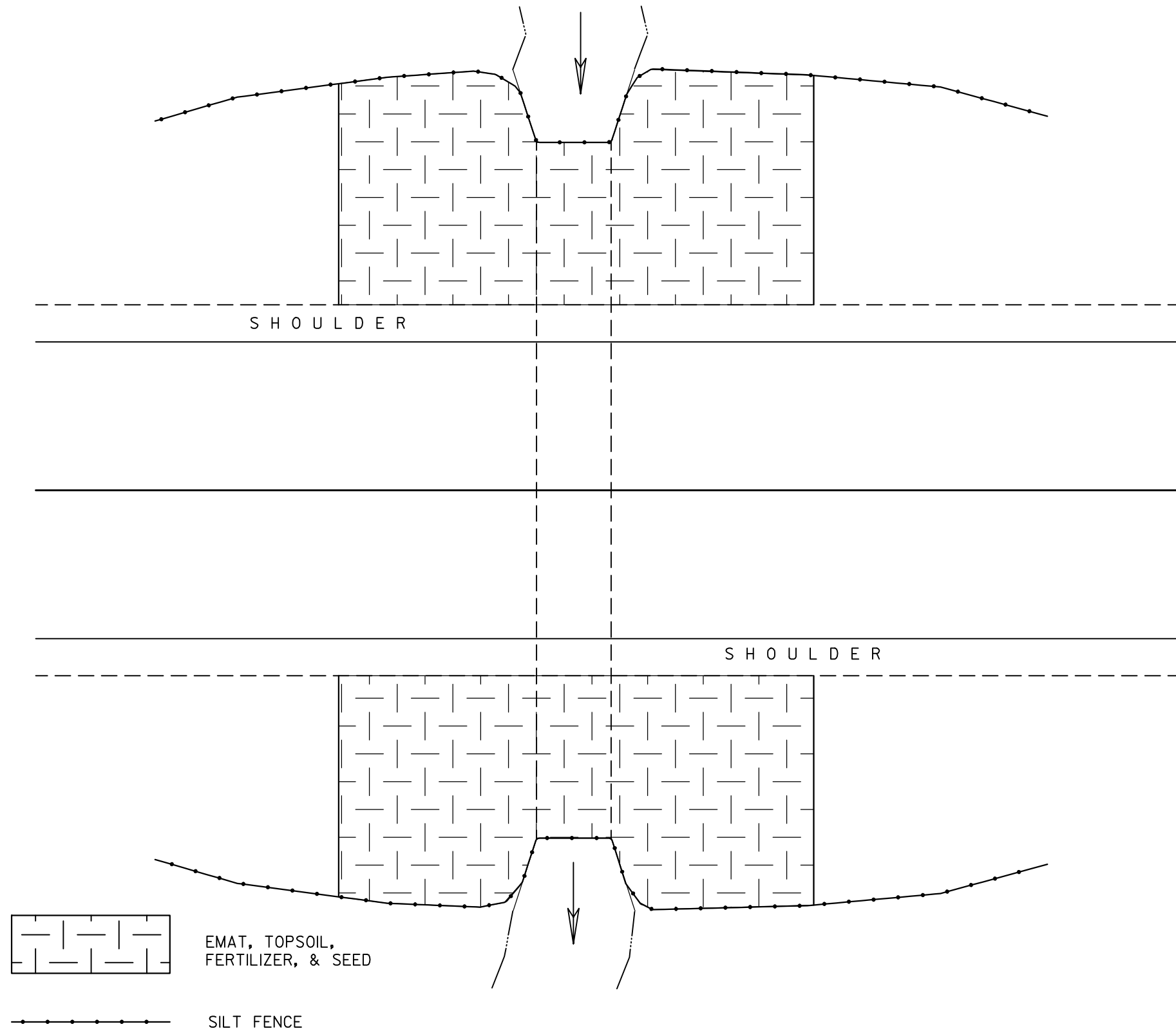
CULVERT PIPE TRANSITION

TO BE COMPLETED AT ALL CULVERT PIPE REPLACEMENT LOCATIONS

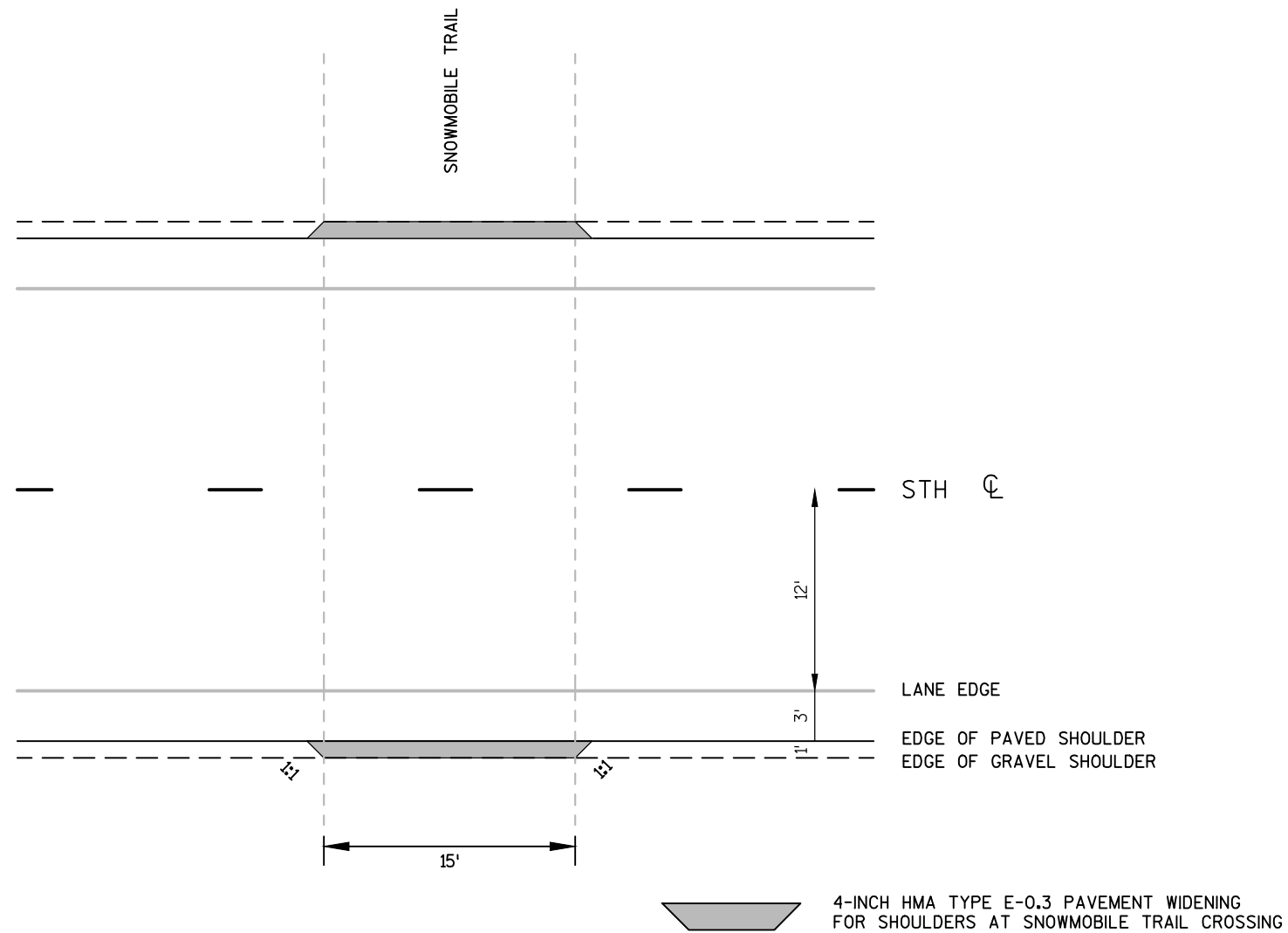
NOTE: MATERIAL REMOVED IN THE TRANSITION CUT AND PIPE TRENCH EXCAVATIONS TO BE REUSED AS BACKFILL UNLESS DETERMINED TO BE UNUSABLE BY THE ENGINEER IN WHICH CASE GRANULAR BACKFILL WILL BE USED.

PIPE TRENCH EXCAVATION, EXCLUDING TRANSITION CUT IS CONSIDERED INCIDENTAL TO PIPE INSTALLATION. TRANSITION CUT WILL BE PAID FOR AS EXCAVATION COMMON.

TRANSITION CUT WILL BE 36' WIDE, 18' EACH SIDE OF CENTERLINE.

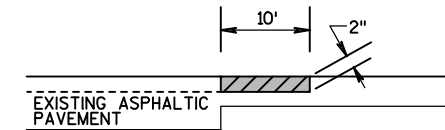


DETAIL FOR EROSION CONTROL AT CULVERT PIPES



**PAVING FULL WIDTH SHOULDERS
AT SNOWMOBILE TRAIL CROSSING**

STA 79+86 RT
STA 403+94 LT
STA 543+40 LT



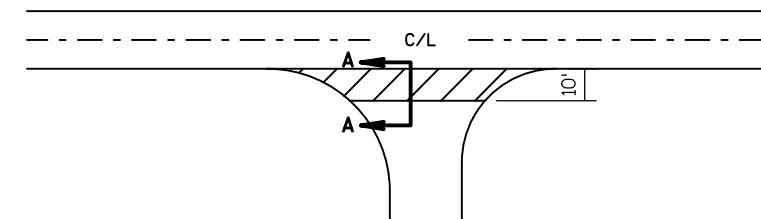
2" HMA PAVEMENT TYPE E-0.3 *

2" ASPHALT SURFACE DRIVEWAYS AND FIELD ENTRANCES **

REMOVING ASPHALTIC SURFACE MILLING

NOTE: EXACT DIMENSIONS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

SECTION A - A



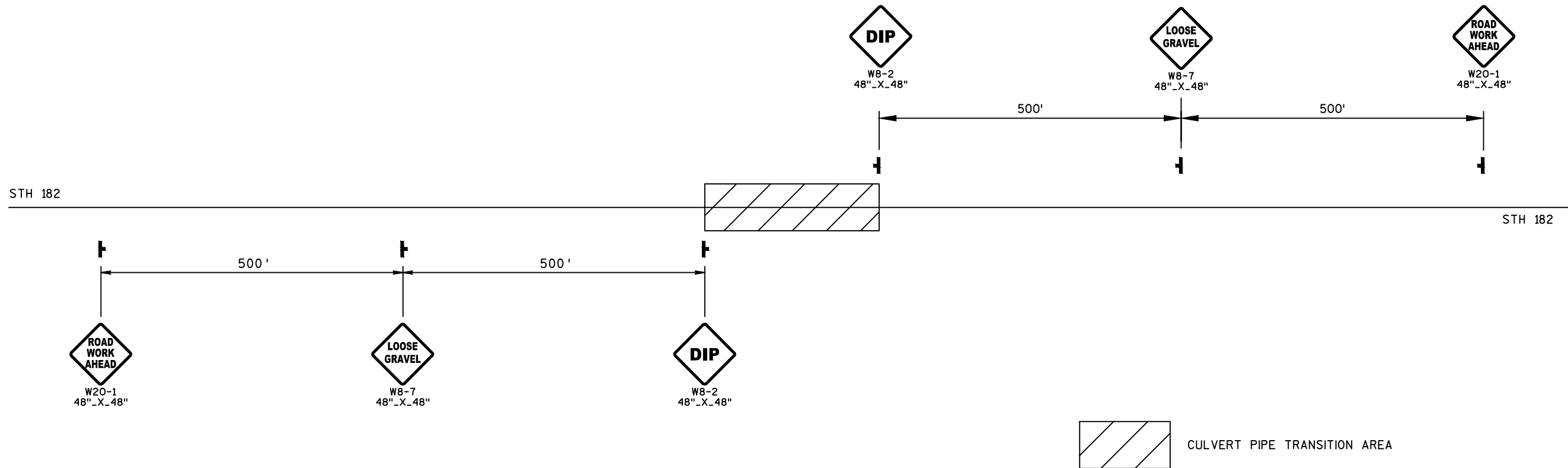
REMOVING ASPHALTIC SURFACE MILLING 2"

NOTE: EXACT DIMENSIONS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

SIDEROADS AND DRIVEWAYS

SIDEROADS *

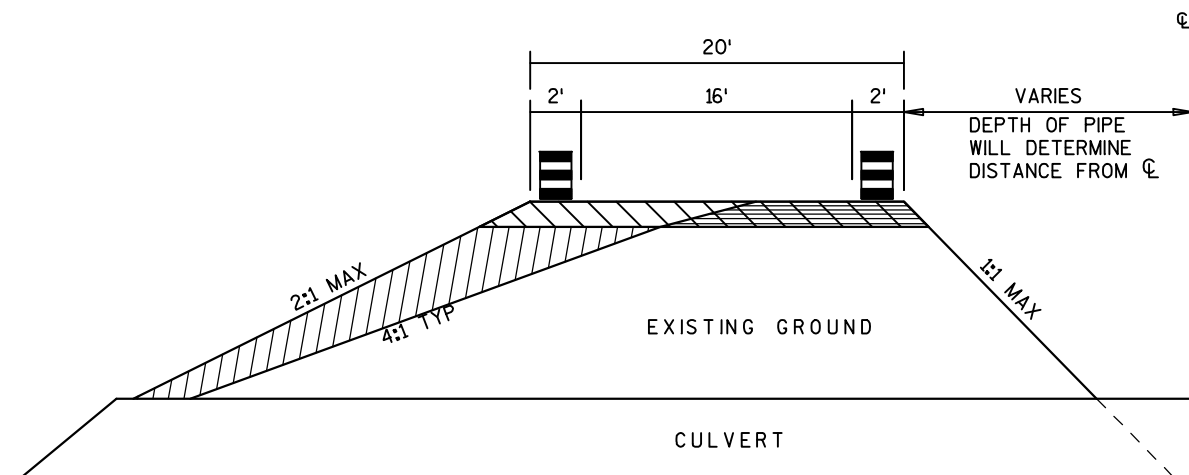
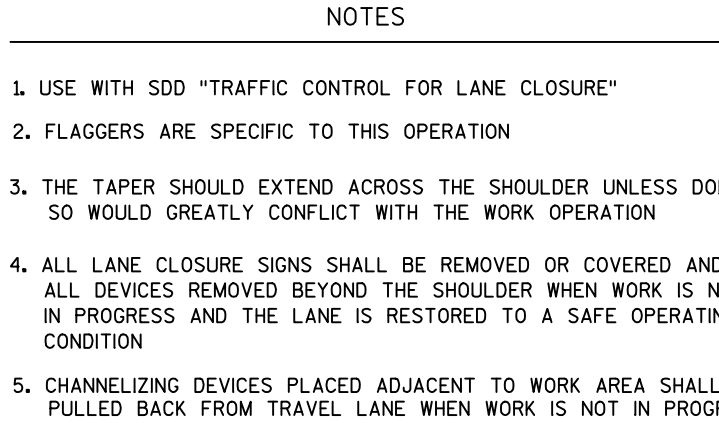
DRIVEWAYS **






TEMPORARY SIGNING AT CULVERT PIPE REPLACEMENT

STA 589+75 50-182-37
STA 635+40 50-182-40

2



KEY	
●	TRAFFIC CONTROL DRUM
	FILL - INCIDENTAL TO LANE SHIFT ITEM
	EXISTING PAVED SURFACE OR 6" BASE AGGREGATE DENSE 1 1 /4 INCH - INCIDENTAL TO LANE SHIFT ITEM
	6" BASE AGGREGATE DENSE 1 1 /4 INCH - INCIDENTAL TO LANE SHIFT ITEM

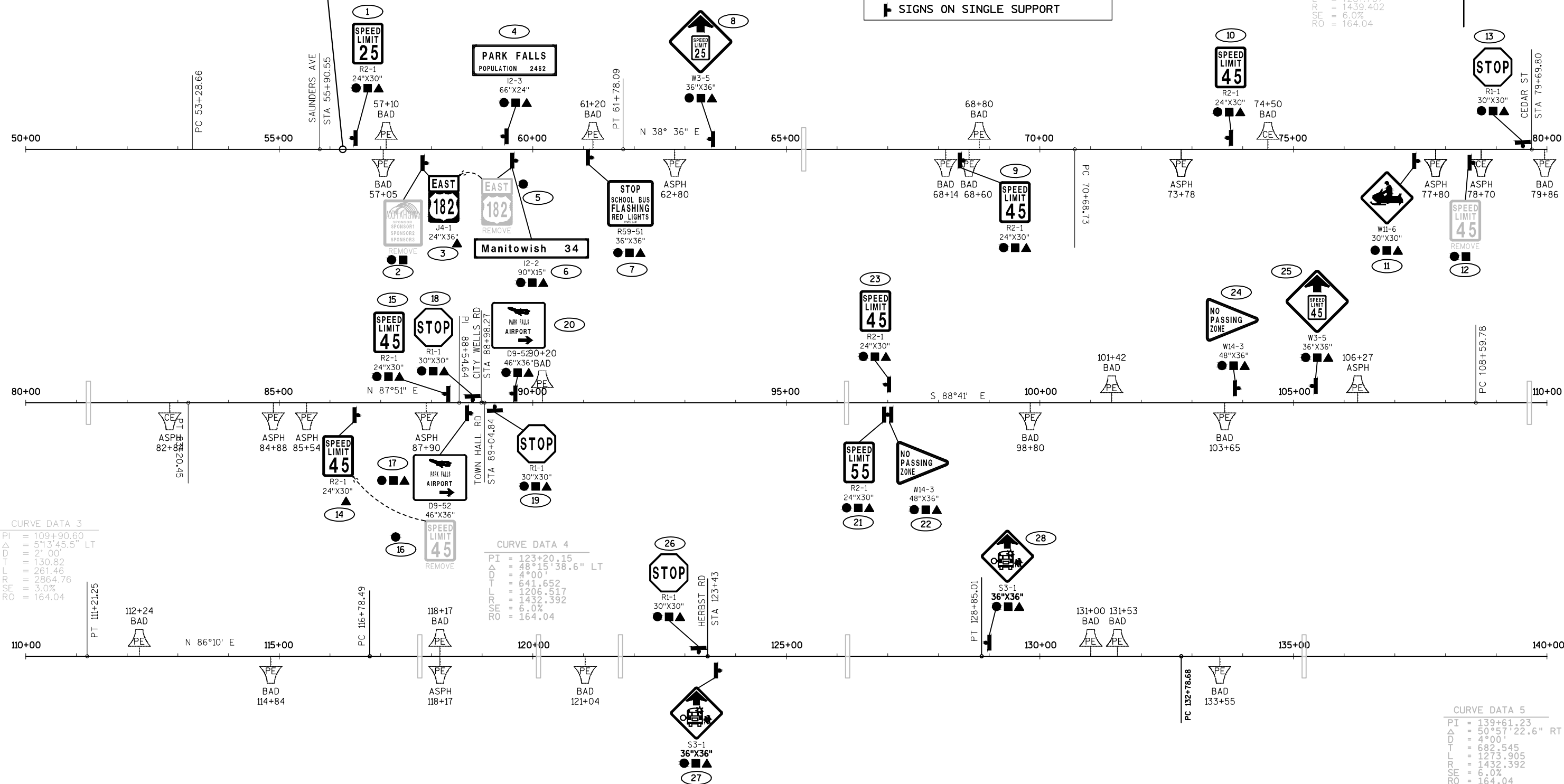
BEGIN PROJECT 9240-10-70
STA 56+25 STH 182
(END OF EXISTING CURB & GUTTER)

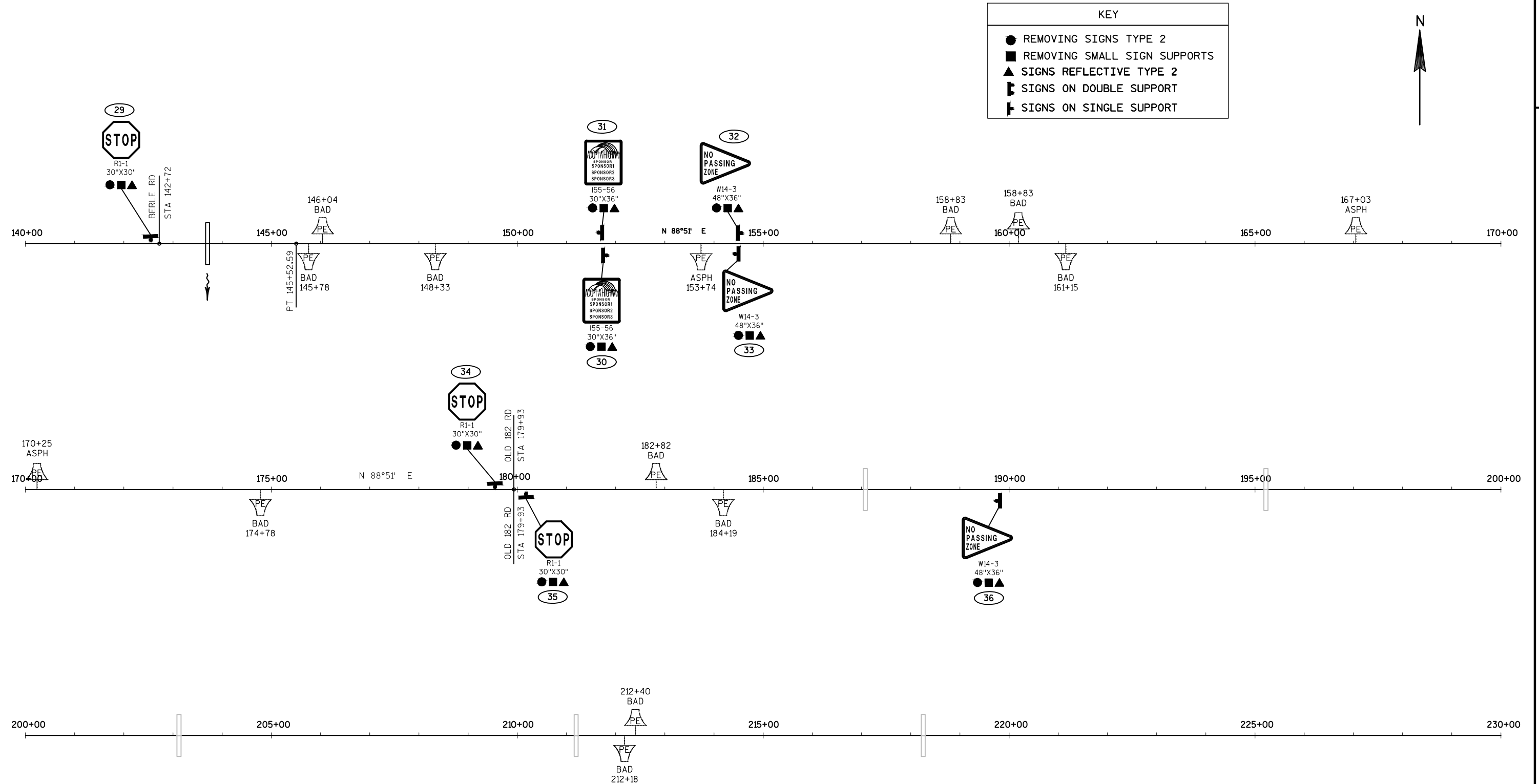
CURVE DATA 1
PI = 57+83.79
Δ = 50°57'58.4" LT
D = 6°00'
L = 455.13
T = 849.44
E = 954.93
SE = 8.0%
RO = 164.04

KEY

- REMOVING SIGNS TYPE 2
- REMOVING SMALL SIGN SUPPORTS
- ▲ SIGNS REFLECTIVE TYPE 2
- ⌋ SIGNS ON DOUBLE SUPPORT
- ⌋ SIGNS ON SINGLE SUPPORT

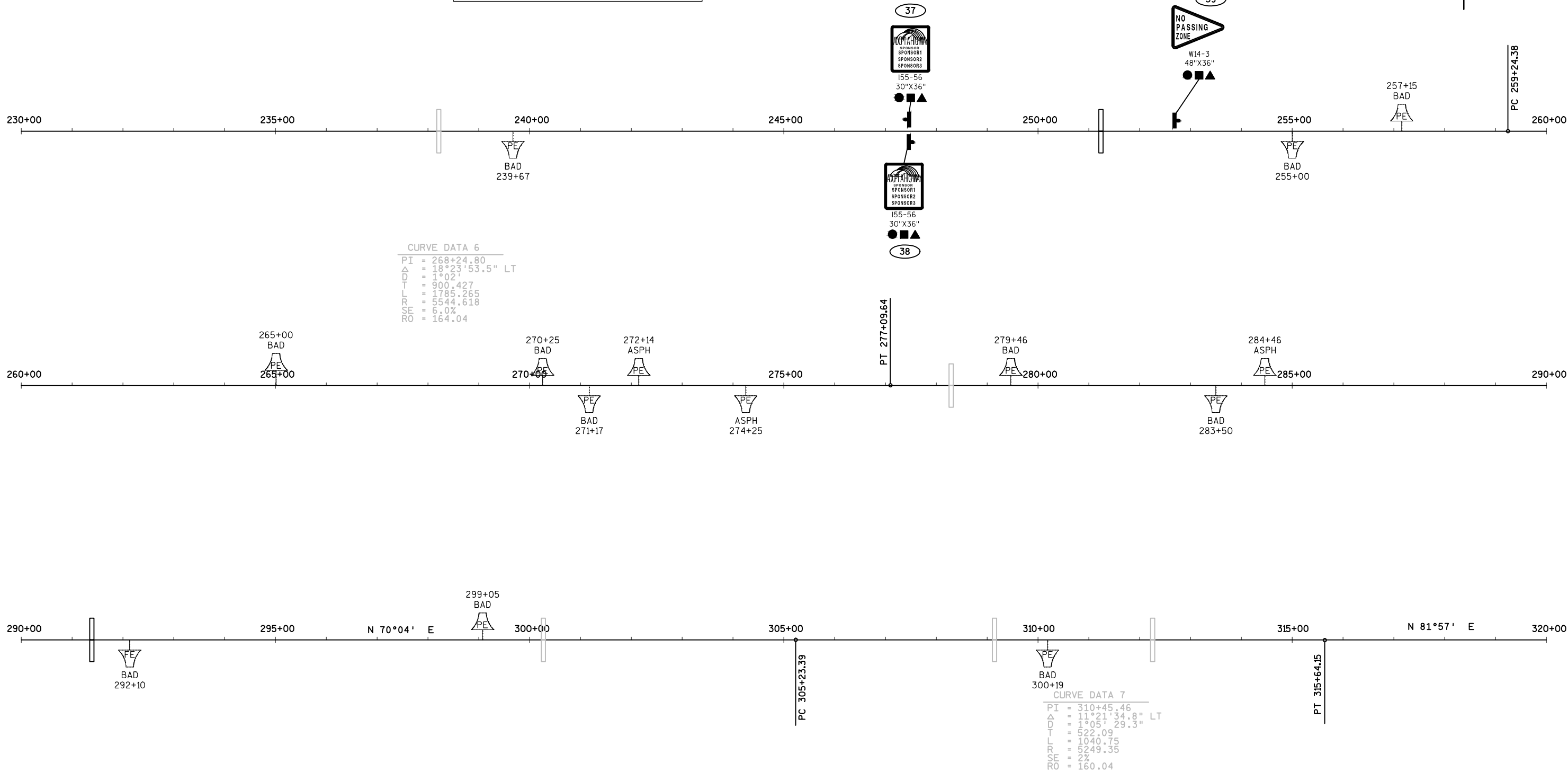
CURVE DATA 2
PI = 77+37.26
Δ = 49°49'28.2" RT
D = 3°58'49.7"
L = 668.522
T = 1251.707
E = 1439.402
SE = 6.0%
RO = 164.04

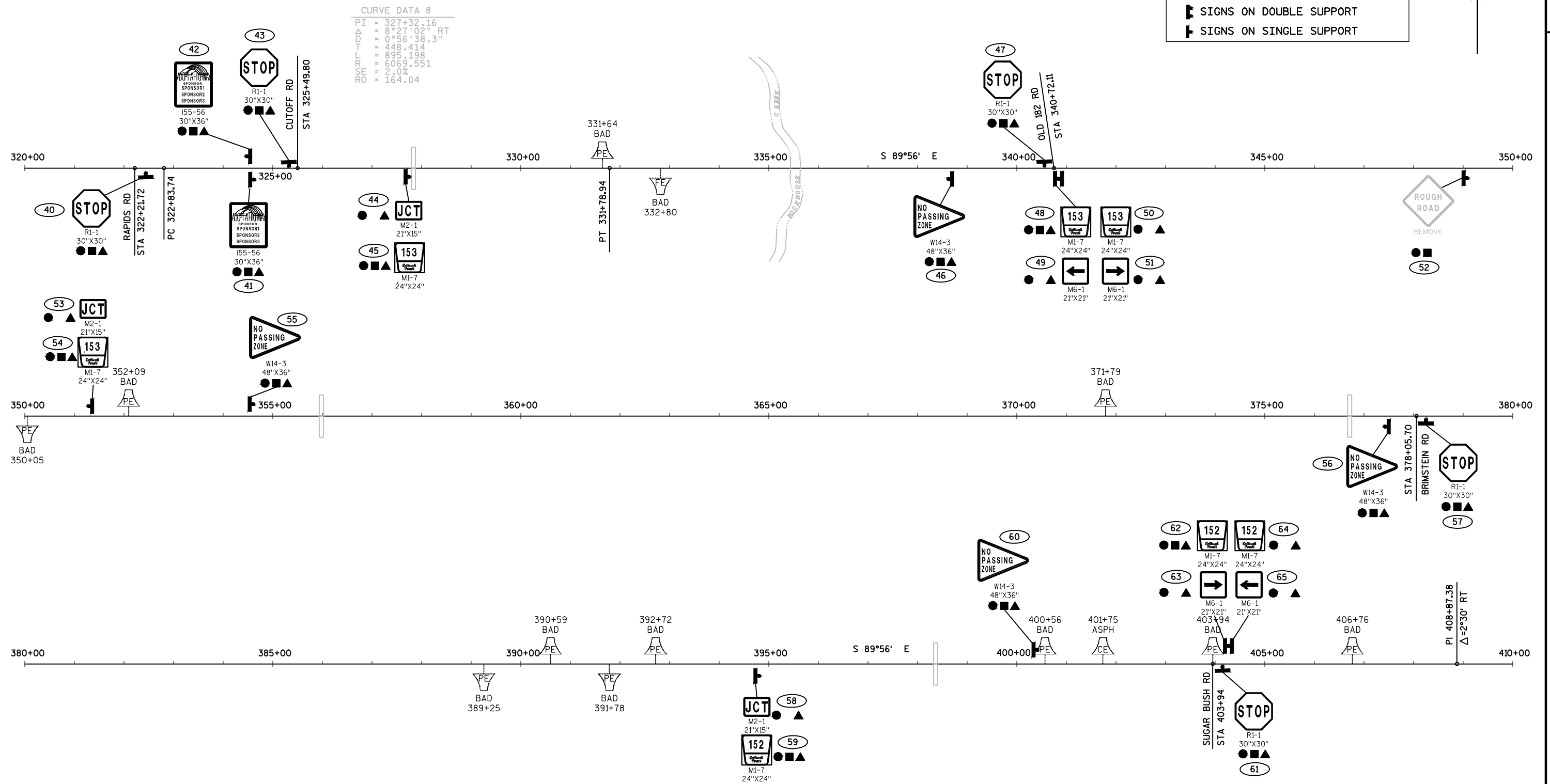


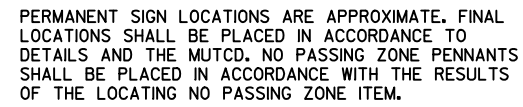


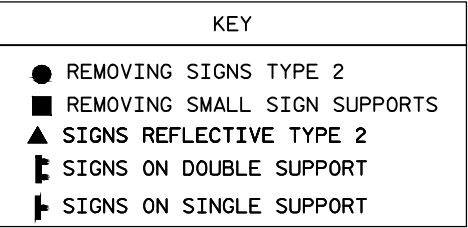
PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD. NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.

KEY	
●	REMOVING SIGNS TYPE 2
■	REMOVING SMALL SIGN SUPPORTS
▲	SIGNS REFLECTIVE TYPE 2
┌	SIGNS ON DOUBLE SUPPORT
└	SIGNS ON SINGLE SUPPORT

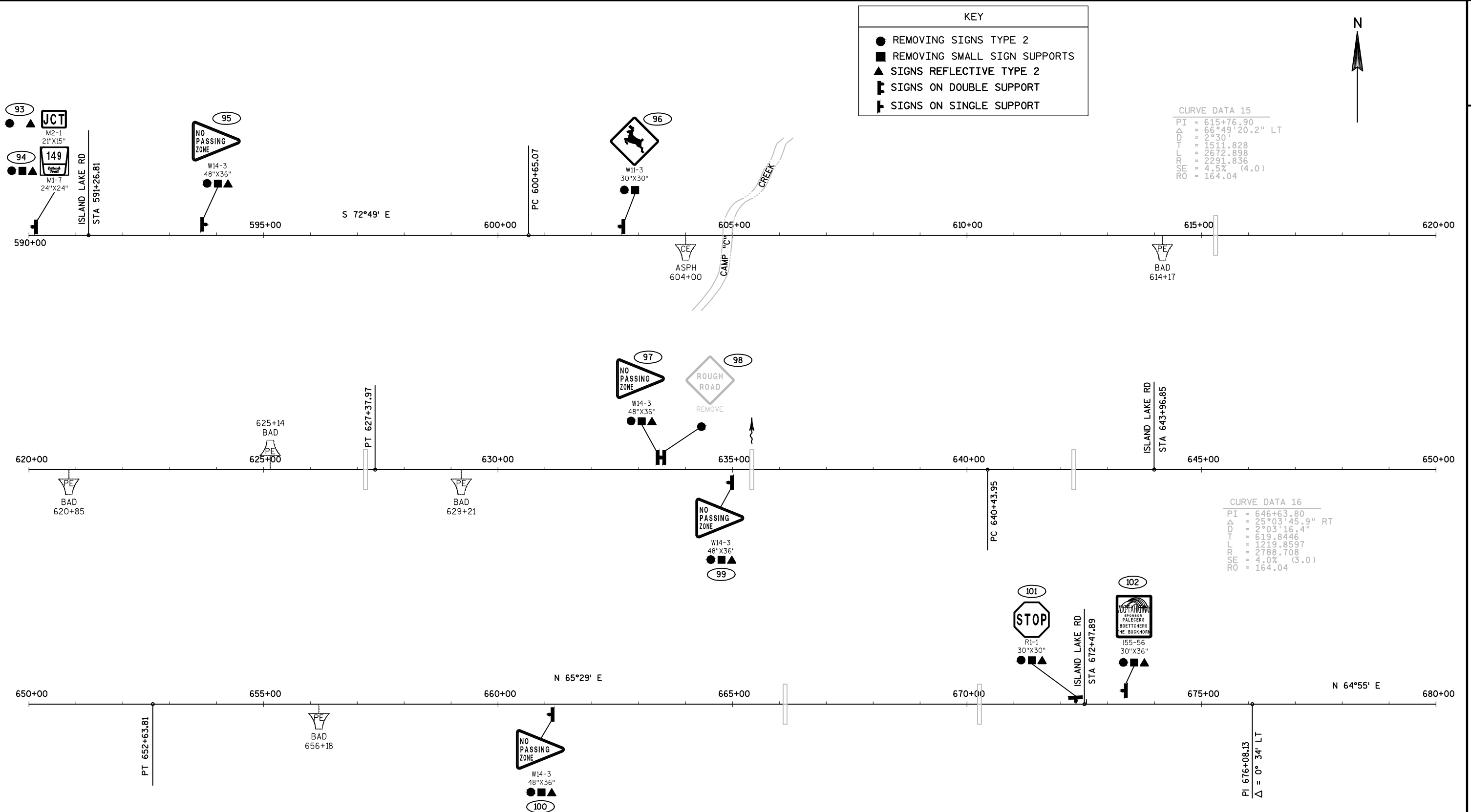


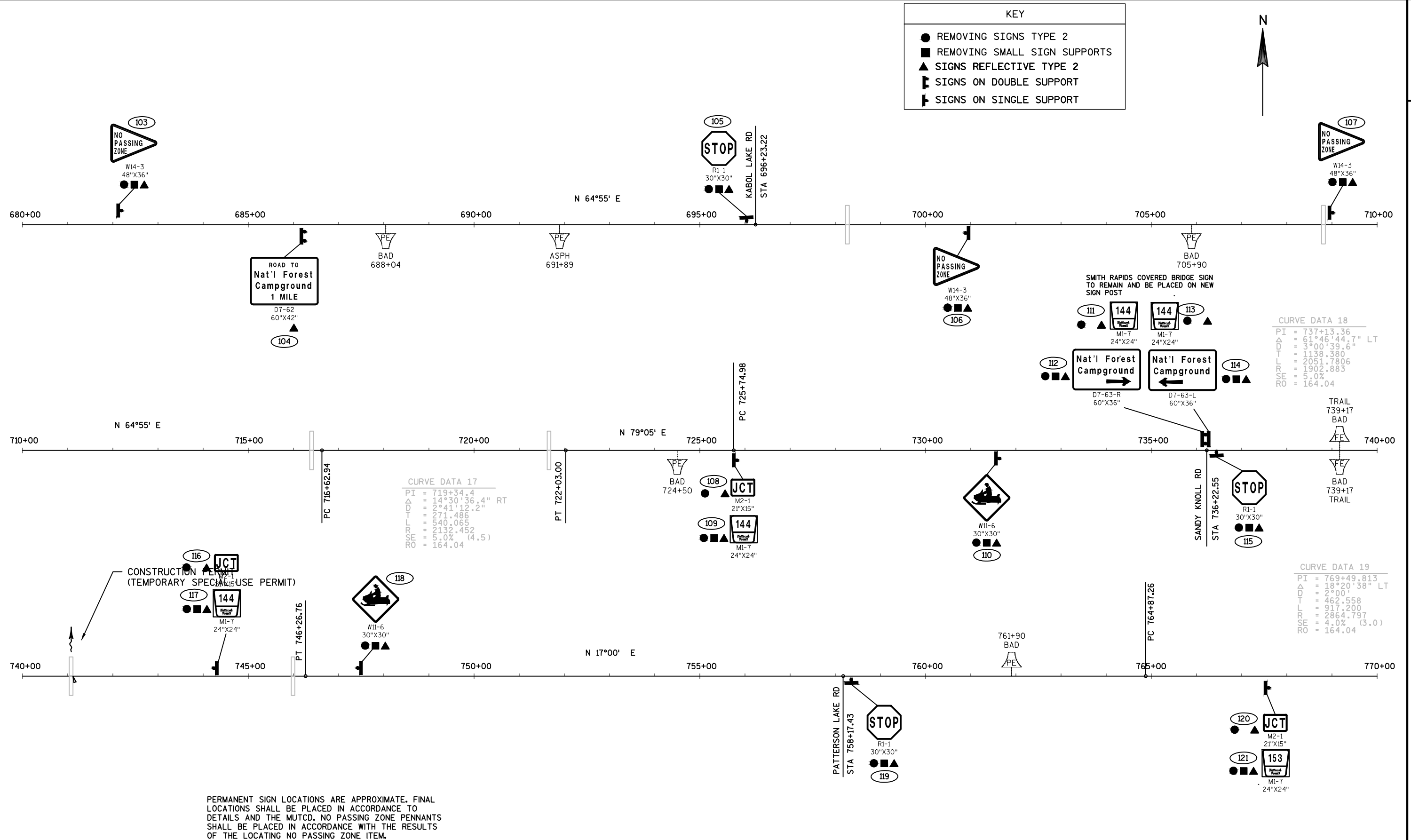


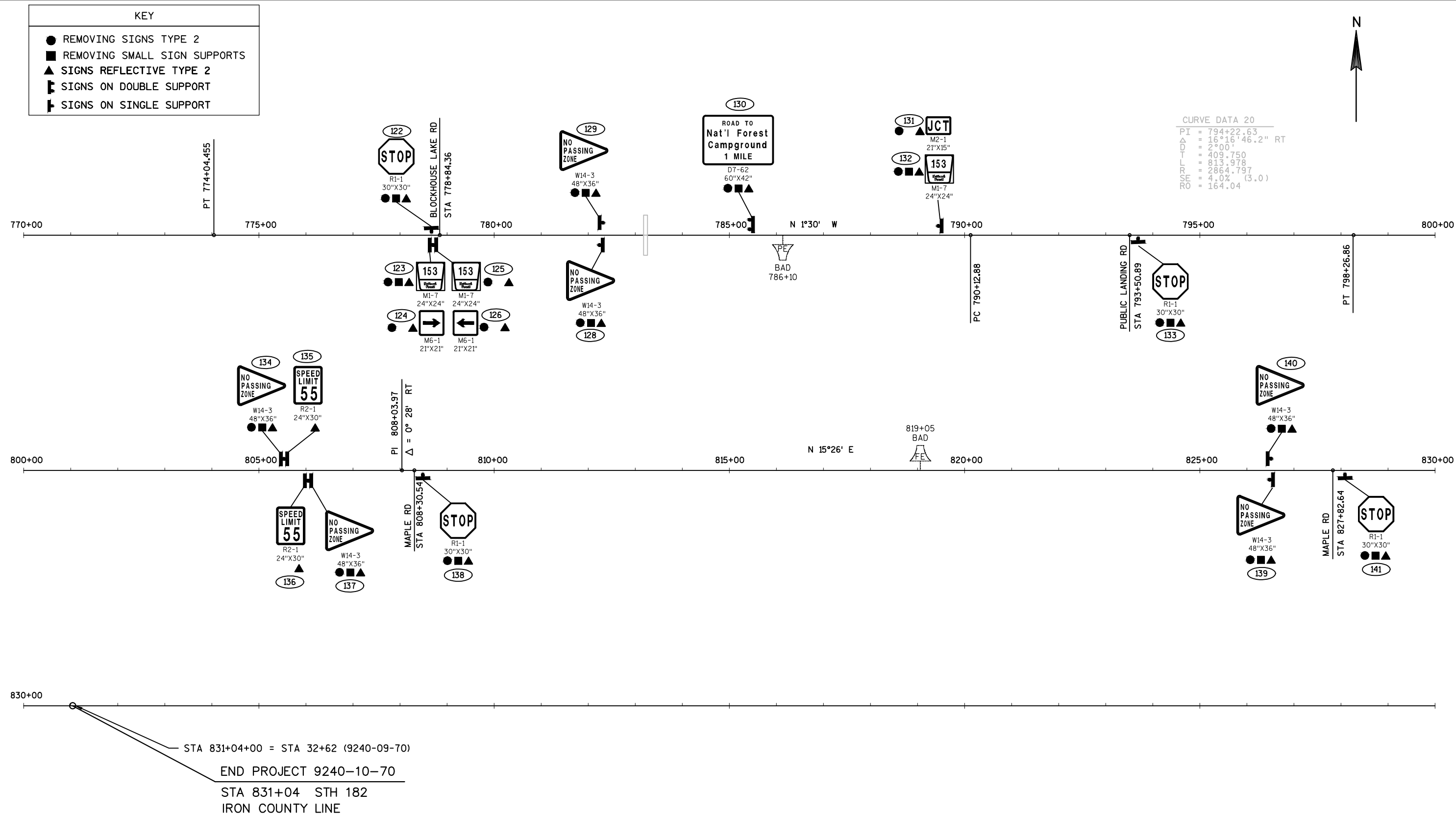




PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD. NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM.







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DATE 14APR15		E S T I M A T E O F Q U A N T I T I E S			
LINE				9240-10-70	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	202.0105	Roadside Clearing	STA	4.000	4.000
0020	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000
0030	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 426+50	LS	1.000	1.000
0040	204.0115	Removing Asphaltic Surface Butt Joints	SY	270.000	270.000
0050	204.0120	Removing Asphaltic Surface Milling	SY	208,930.000	208,930.000
0060	204.0270	Abandoning Culvert Pipes	EACH	1.000	1.000
0070	205.0100	Excavation Common **P**	CY	1,080.000	1,080.000
0080	209.0100	Backfill Granular	CY	120.000	120.000
0090	209.0200.S	Backfill Controlled Low Strength	CY	10.000	10.000
0100	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	1,550.000	1,550.000
0110	213.0100	Finishing Roadway (project) 01. 9240-10-70	EACH	1.000	1.000
0120	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,630.000	2,630.000
0130	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	150.000	150.000
0140	305.0500	Shaping Shoulders	STA	1,550.000	1,550.000
0150	440.4410.S	Incentive IRI Ride	DOL	60,000.000	60,000.000
0160	455.0105	Asphaltic Material PG58-28	TON	1,990.000	1,990.000
0170	455.0605	Tack Coat	GAL	17,050.000	17,050.000
0180	460.1100	HMA Pavement Type E-0.3	TON	36,030.000	36,030.000
0190	460.2000	Incentive Density HMA Pavement	DOL	23,060.000	23,060.000
0200	460.4000	HMA Cold Weather Paving	TON	9,000.000	9,000.000
0210	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	77,480.000	77,480.000
0220	465.0105	Asphaltic Surface	TON	277.000	277.000
0230	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	200.000	200.000
0240	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	64,300.000	64,300.000
0250	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	176.000	176.000
0260	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	4.000	4.000
0270	606.0300	Riprap Heavy	CY	22.000	22.000
0280	609.0124	Relaid Storm Sewer 24-Inch	LF	32.000	32.000
0290	609.0136	Relaid Storm Sewer 36-Inch	LF	24.000	24.000
0300	609.0172	Relaid Storm Sewer 72-Inch	LF	24.000	24.000
0310	618.0100	Maintenance And Repair of Haul Roads (project) 01. 9240-10-70	EACH	1.000	1.000
0320	619.1000	Mobilization	EACH	1.000	1.000
0330	621.0100	Landmark Reference Monuments	EACH	20.000	20.000
0340	624.0100	Water	MGAL	100.000	100.000
0350	625.0100	Topsoil	SY	2,900.000	2,900.000
0360	628.1504	Silt Fence	LF	900.000	900.000
0370	628.1520	Silt Fence Maintenance	LF	150.000	150.000
0380	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0390	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0400	628.2006	Erosion Mat Urban Class I Type A	SY	2,800.000	2,800.000
0410	628.6005	Turbidity Barriers	SY	150.000	150.000
0420	628.7555	Culvert Pipe Checks	EACH	42.000	42.000
0430	628.7570	Rock Bags	EACH	20.000	20.000
0440	629.0210	Fertilizer Type B	CWT	2.000	2.000
0450	630.0130	Seeding Mixture No. 30	LB	60.000	60.000
0460	633.5200	Markers Culvert End	EACH	94.000	94.000

DATE 14APR15			E S T I M A T E O F Q U A N T I T I E S		
LINE					9240-10-70
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0470	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	106.000	106.000
0480	637.2210	Signs Type II Reflective H	SF	419.210	419.210
0490	637.2230	Signs Type II Reflective F	SF	229.000	229.000
0500	638.2602	Removi ng Signs Type II	EACH	109.000	109.000
0510	638.3000	Removing Small Sign Supports	EACH	104.000	104.000
0520	642.5201	Field Office Type C	EACH	1.000	1.000
0530	643.0100	Traffic Control (project) 01. 9240-10-70	EACH	1.000	1.000
0540	643.0300	Traffic Control Drums	DAY	200.000	200.000
0550	643.0900	Traffic Control Signs	DAY	2,480.000	2,480.000
0560	645.0120	Geotextile Fabric Type HR	SY	80.000	80.000
0570	646.0106	Pavement Marking Epoxy 4-Inch	LF	261,040.000	261,040.000
0580	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	108,780.000	108,780.000
0590	648.0100	Locating No-Passing Zones	MI	14.670	14.670
0600	649.0100	Temporary Pavement Marking 4-Inch	LF	81,500.000	81,500.000
0610	650.6000	Construction Staking Pipe Culverts	EACH	2.000	2.000
0620	650.8000	Construction Staking Resurfacing Reference	LF	77,480.000	77,480.000
0630	650.9910	Construction Staking Supplemental Control (project) 01. 9070-10-70	LS	1.000	1.000
0640	SPV.0060	Special 01. Lane Shift	EACH	2.000	2.000
0650	SPV.0060	Special 02. Reestablish Section Corner Monuments	EACH	5.000	5.000
0660	SPV.0180	Special 01. Salvaged Bank Stabilization Vegetation And Topsoil 9 Inch	SY	45.000	45.000

3

BRIDGE REMOVAL					205.0100 EXCAVATION COMMON **	203.0600.S REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS					
STATION		LOCATION		CY	LS	STATION		STATION			
2+40	to	2+52	HAY CREEK	150		56+24 - 831+04	1550	1550			
2+83	to	3+25	HAY CREEK	300	1						
TOTAL				450	1						
** ITEM FOUND ELSEWHERE IN QUANTITIES											

SHOULDERS			211.0400 PREPARE FOUNDATION FOR ASPHALT SHOULDERS	305.0500 SHAPING SHOULDERS			
STATION			STATION				
56+24 - 831+04			1550	1550			
TOTAL			1550	1550			

BASE AGG DENSE		305.0110 BASE AGGREGATE DENSE 3/4 INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4 INCH TON	209.0100 BACKFILL GRANULAR CY
PROJECT	LOCATION	TON	TON	CY
CULVERT PIPES			150	
56+24-831+04	MAINLINE	2300		
56+24-831+04	SIDE ROADS	130		
56+24-831+04	PE'S AND CE'S	200.0		
UNDISTRIBUTED				120
TOTAL		2,630	150	120

3

<u>REMOVALS</u>				204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
PROJECT	LOCATION	SY	SY		
56+24-831+04	MAINLINE	270	206,610		
56+24-831+04	SIDE ROADS		1320		
56+24-831+04	PE'S AND CE'S		1000		
TOTAL		270	208930		

<u>PAVING ITEMS</u>				455.0105 ASPHALTIC MATERIAL PG 58-28	455.0605 TACK COAT	460.1100 HMA PAVEMENT TYPE E-0.3	465.0105 ASPHALTIC SURFACE	460.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTERANCES	460.4000 HMA COLD WEATHER PAVING TON	460.4110.S REHEATING HMA PAVEMENT LONGITUNDINAL JOINTS LF
STATION	-	STATION	LOCATION	TON	GAL	TON	TON	TON	TON	
56+24	-	831+04	SHOULDERS	655	2,583	11,880			1700	
56+24	-	831+04	MAINLINE	1310	14,467	23,760			7300	77480
56+24	-	831+04	SIDE ROADS	25		390				
56+24	-	831+04	CULVERT PIPES				255			
56+24	-	831+04	PE'S AND FE'S					200		
79+86			SNOWMOBILE CROSSING				10			
403+94			SNOWMOBILE CROSSING				6			
544+10			SNOWMOBILE CROSSING				6			
TOTAL				1,990	17,050	36030	277	200	9000	77480

STRUCTURE AND CULVERT												
	203.0100 REMOVING SMALL PIPE CULVERTS	204.0270 ABANDONING CULVERT PIPES	522.0124 CULVERT PIPE CLASS III RCCP 24"	522.1024 APRON ENDWALLS RCCP 24"	609.0124 RELAID STORM SEWER 24"	609.0136 RELAID STORM SEWER 36"	609.0172 RELAID STORM SEWER 72"	205.0100 EXCAVATION COMMON FOR TRANSITION **	SPV.0060.01 LANE SHIFT	209.0200.S BACKFILL CONTROLLED LOW STRENGTH	CULVERT PIPE TIES FOR INFORMATIONAL PURPOSES	
STATION	CULVERT/STRUCTURE #	EACH	EACH	LF	EACH	LF	LF	CY	EACH	CY	ONLY	
143+75	50-182-009						24				10	
251+25	50-182-016					32					10	
291+55	C-50-9715							24			14	
589+75	50-182-037	1		76	2			315	1		26	
635+40	50-182-040	1		100	2			315	1		30	
741+05	50-182-047		1							10		
TOTAL		2	1	176	4	32	24	24	630	2	90	
** ITEM FOUND ELSEWHERE IN QUANTITIES												

PROJECT NO:	9240-10-70	HWY:	WIS 182	COUNTY:	PRICE	MISCELLANEOUS QUANTITIES							SHEET:	E
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TRAFFIC CONTROL

	643.0900	643.0100	643.0300
	TRAFFIC	TRAFFIC	TRAFFIC
	CONTROL	CONTROL	CONTROL
	SIGNS		DRUMS
LOCATION	DAYS	EACH	DAYS
PROJECT	2,480	1	200
TOTAL	2,480	1	200

PAVEMENT MARKING

		646.0106	649.0100	646.0406
		PAVEMENT	TEMPORARY	PAVEMENT
		MARKING	PAVEMENT	MARKING
		EPOXY	MARKING	SAME DAY
		4-INCH	4 INCH	EPOXY 4 INCH
STATION	LOCATION	LF	LF	LF
56+25 - 831+04	CENTERLINE YELLOW	108,780	81,500	108,780
56+25 - 831+04	EDGE LINES WHITE	152,260		
TOTAL		261,040	81500	108,780

WATER

	624.0100
	WATER
	MGAL
PROJECT	100
TOTAL	100

CONSTRUCTION STAKING

	621.0100	650.8000	650.6000	650.9910	SPV.0060.02
	LANDMARK	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION	REESTABLISH
	REFERENCE	RESURFACING	STAKING	STAKING	SECTION
	MONUMNENTS	REFERENCE	PIPE	SUPPLEMENTAL	CORNER
			CULVERTS	CONTROL	MONUMNETS
STATION	EACH	LF	EACH	LS	EACH
56+24 - 831+04		77,480		1	
89+00	4				1
340+73	4				1
353+11	4				1
390+93	4				1
495+64	4				1
589+75	50-182-037		1		
635+40	50-182-040		1		
TOTAL	20	77,480	2	1	5

EROSION CONTROL

		625.0100	628.1504	628.1520	628.2006	628.6005	628.7555	628.7570	629.0210	630.0130	606.3000	645.0120	SPV.0180.01
		TOPSOIL	SILT	SILT	EROSION MAT	TURBIDITY	CULVERT	ROCK	FERTILIZER	SEEDING	RIPRAP	GEOTEXTILE	SALVAGED BANK
			FENCE	FENCE	URBAN	BARRIER	PIPE	BAGS	TYPE B	MIXTURE	HEAVY	FABRIC	VEGETATION
				MAINTENANCE	CLASS I TYPE A		CHECKS			No. 30		TYPE HR	AND TOPSOIL
													9 INCHES
STATION	LOCATION	SY	LF	LF	SY	SY	EACH	EACH	CWT	LB	CY	SY	SY
143+75	50-182-009	200	100	25	200		3		0.13	4			
251+25	50-182-016	200	100	25	200		5		0.13	4			
291+55	C-50-9715	200	100	25	200		10		0.13	4			
589+75	50-182-037	400	200	25	400		3		0.26	8			
365+40	50-182-040	600	200	25	600		3		0.39	12			
741+05	50-182-047	1000	200	25	1000		3		0.70	20			
2+58	HAY CREEK	150				75			0.10	3	22	80	
2+83	HAY CREEK	150			200	75		20	0.10	3			45
UNDISTRIBUTED							15			3			
TOTAL		2900	900	150	2800	150	42	20	2	60	22	80	45

MARKER POSTS		
		633.5200
		MARKERS
		CULVERT END
STATION	PIPE NUMBER	EACH
STA 65+35	50-182-1	2
STA 81+23	50-182-2	2
STA 96+19	50-182-3	2
STA 109+65	50-182-4	2
STA 117+78	50-182-5	2
STA 120+05	50-182-6	2
STA 121+72	50-182-7	2
STA 135+20	50-182-8	2
STA 143+75	50-182-9	2
STA 187+07	C-50-9714	2
STA 195+23	50-182-11	2
STA 203+12	50-182-12	2
STA 201+28	50-182-13	2
STA 218+25	50-182-14	2
STA 236+00	50-182-15	2
STA 251+25	50-182-16	2
STA 278+29	50-182-17	2
STA 291+55	C-50-9715	2
STA 312+25	50-182-19	2
STA 327+84	50-182-20	2
STA 335+52	C-50-17	2
STA 355+97	50-182-22	2
STA 376+71	50-182-23	2
STA 398+37	50-182-24	2
STA 415+79	50-182-25	2
STA 440+45	50-182-27	2
STA 461+85	50-182-28	2
STA 470+74	50-182-29	2
STA 478+27	50-182-30	2
STA 495+20	50-182-31	2
STA 505+16	50-182-32	2
STA 512+58	50-182-33	2
STA 539+07	50-182-34	2
STA 546+87	50-182-35	2
STA 564+68	50-182-36	2
STA 589+75	50-182-37	2
STA 604+90	C-50-9719	2
STA 627+16	50-182-39	2
STA 635+40	50-182-40	2
STA 642+27	50-182-41	2
STA 666+11	50-182-42	2
STA 698+26	50-182-43	2
STA 708+80	50-182-44	2
STA 716+39	50-182-45	2
STA 721+65	50-182-46	2
STA 745+99	50-182-48	2
STA 783+22	50-182-49	2
TOTAL		94

RUMBLE STRIPS	
	465.0475
	ASPHALT
	CENTER
	LINE
	RUMBLE
	STRIPS
	LF
56+24 – 831+04	64300
TOTAL	64300

LOCATE NO-PASSING ZONES			
			648.0100
			LOCATING
			NO PASSING
			ZONES
STA	TO	LOCATION	MI
56+24	831+04	PROJECT LIMITS	14.67
TOTAL			14.67

PERMANENT SIGNING

*Move sign as indicated on sign plan

		SIGN				638.2602	638.3000	637.2210	637.2230	634.0616		
						REMOVING	REMOVING	SIGNS	SIGNS	WOOD POSTS		
						SIGNS	SMALL SIGN	TYPE II	TYPE II	4X6 INCH		
						TYPE II	SUPPORTS	REFLECTIVE H	REFLECTIVE F	16 FOOT		
STATION	LOCATION	NUMBE	SIGN CODE	SIZE	EACH	EACH		S.F.	S.F.	EACH	DESCRIPTION	COMMENTS
57+10	LT	1	R2-1	24X30	1	1		5	-	1	REGULATORY SIGN	SPEED LIMIT 25
57+90	RT	2	I55-56	30x36	1	1		7.50		1	ADOPT A HIGHWAY	Remove
59+50	RT	6	I2-2	90X15	1	2		9.38		1	DESTINATION SIGN	MANITOWISH 34
59+50	LT	4	I2-3	72X24	1	1		12.00		1	GUIDE SIGN	PARK FALLS POPULATION
59+50	RT	3	J4-1	24X36	1	1		-	-	-	REASSURANCE ASSEMBLY	*MOVE
			M3-2	24X12	-	-		-	-	-	CARDINAL DIRECTION MARKER	EAST
			M1-4	24X24	-	-		-	-	-	STH ROUTE MARKER	182
61+10	RT	7	R59-51	36X36	1	1		9.00	-	1	REGULATORY SIGN	STOP SCHOOL BUS FLASHING RED LIGHTS
63+00	RT	5	J4-1	24X36	-	-		6.00	-	1	REASSURANCE ASSEMBLY	
			M3-2	24X12	-	-		-	-	-	CARDINAL DIRECTION MARKER	EAST
			M1-4	24X24	-	-		-	-	-	STH ROUTE MARKER	182
63+50	LT	8	W3-5	36X36	1			-	9	1	WARNING SIGN	REDUCE SPEED 25 AHEAD
68+50	RT	9	R2-1	24X30	1	1		5.00	-	1	REGULATORY SIGN	SPEED LIMIT 45
73+85	LT	10	R2-1	24X30	1	1		5.00	-	1	REGULATORY SIGN	SPEED LIMIT 45
77+25	RT	11	W11-6	30X30	1	1		-	6.25	1	WARNING SIGN	SNOWMOBILE CROSSING
78+50	RT	12	R2-1	24X30	1	1		5.00	-	1	REGULATORY SIGN	SPEED LIMIT 45
79+60	LT	13	R1-1	30X30	1	1		5.18	-	1	REGULATORY SIGN	STOP SIGN
86+50	RT	14	R2-1	24X30	-	-		5.00	-	1	REGULATORY SIGN	SPEED LIMIT 45
88+50	LT	15	R2-1	24X30	1	1		5.00	-	1	REGULATORY SIGN	SPEED LIMIT 45
88+80	RT	16	R2-1	24X30	1	-		-	-	-	REGULATORY SIGN	*MOVE
88+80	RT	17			1	1			-		GUIDE SIGN	PARK FALLS MUNI AIRPORT
89+00	LT	18	R1-1	30X30	1	1		5.18	-	1	REGULATORY SIGN	STOP SIGN
89+05	RT	19	R1-1	30X30	1	1		5.18	-	1	REGULATORY SIGN	STOP SIGN
89+75	LT	20			1	1					GUIDE SIGN	PARK FALLS MUNI AIRPORT
95+50	RT	21	R2-1	24X30	-	-		5.00	-	1	REGULATORY SIGN	SPEED LIMIT 55
97+00	RT	22	R2-1	24X30	1	1		-	-	-	REGULATORY SIGN	*MOVE
97+00	RT	23	W14-3	48X36	1	-		-	6	1	WARNING SIGN	NO PASSING ZONE
97+00	LT	24	R2-1	24X30	1	1		5.00	-	1	REGULATORY SIGN	SPEED LIMIT 45
103+90	LT	25	W14-3	48X36	1	1		-	6	1	WARNING SIGN	NO PASSING ZONE
105+50	LT	26	W3-5	36X36	1	1		-	9	1	WARNING SIGN	REDUCE SPEED 45 AHEAD
123+40	LT	27	R1-1	30X30	1	1		5.18	-	1	REGULATORY SIGN	STOP SIGN
PAGE TOTAL					24	22		104.6	36.25	22		

PERMANENT SIGNING

*Move sign as indicated on sign plan

*Move sign as indicated on sign plan											
				638.2602	638.3000	637.2210	637.2230	634.0616			
				REMOVING	REMOVING	SIGNS	SIGNS	WOOD POSTS			
				SIGNS	SMALL SIGN	TYPE II	TYPE II	4X6 INCH			
				TYPE II	SUPPORTS	REFLECTIVE H	REFLECTIVE F	16 FOOT			
STATION	LOCATION	SIGN NUMBE R	SIGN CODE	SIZE (IN x IN)	EACH	EACH	S.F.	S.F.	EACH	DESCRIPTION	COMMENTS
128+85	LT	28	S3-1	30X30	1	1	-	6.25	1	SCHOOL SIGN	SCHOOL BUS STOP AHEAD
142+70	LT	29	R1-1	30X30	1	1	5.18	-	1	REGULATORY SIGN	STOP SIGN
151+75	RT	30	I55-56	30x36	1	1	7.50		1	ADOPT A HIGHWAY	
151+75	LT	31	I55-56	30x36	1	1	7.50		1	ADOPT A HIGHWAY	
154+50	LT	32	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
154+50	RT	33	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
179+90	LT	34	R1-1	30X30	1	1	5.18	-	1	REGULATORY SIGN	STOP SIGN
179+95	RT	35	R1-1	30X30	1	1	5.18	-	1	REGULATORY SIGN	STOP SIGN
189+95	RT	36	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
247+50	LT	37	I55-56	30x36	1	1	7.50		1	ADOPT A HIGHWAY	
247+50	RT	38	I55-56	30x36	1	1	7.50		1	ADOPT A HIGHWAY	
252+75	LT	39	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
322+25	RT	40	R1-1	30X30	1	1	5.18	-	1	REGULATORY SIGN	STOP SIGN
324+50	RT	41	I55-56	30x36	1	1	7.50		1	ADOPT A HIGHWAY	
325+05	LT	42	I55-56	30x36	1	1	7.50		1	ADOPT A HIGHWAY	
325+50	LT	43	R1-1	30X30	1	1	5.18	-	1	REGULATORY SIGN	STOP SIGN
327+75	RT	44	MN2-1	21X15		-	2.19	-	-	MARKER SIGN	JCT, BROWN
327+75	RT	45	M1-7	24X24	1	1	4.00	-	1	MARKER SIGN	NATIONAL FOREST 153
338+75	RT	46	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
340+70	LT	47	R1-1	30X30	1	1	5.18	-	1	REGULATORY SIGN	STOP SIGN
340+75	RT	48	M1-7	24X24	1	1	4.00	-	1	MARKER SIGN	NATIONAL FOREST 153
340+75	RT	49	MN6-1	21X21	1	-	3.06	-	1	MARKER SIGN	LEFT ARROW, BROWN
344+00	RT	50	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
350+30	LT	51	MN2-1	21X15		-	2.19	-	-	MARKER SIGN	JCT, BROWN
350+30	LT	52	M1-7	24X24	1	1	4.00	-	1	MARKER SIGN	NATIONAL FOREST 153
355+50	LT	53	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
395+80	RT	54	MN2-1	21X15		-	2.19	-	-	MARKER SIGN	JCT, BROWN
395+80	RT	55	M1-7	24X24	1	1	4.00	-	1	MARKER SIGN	NATIONAL FOREST 152
400+25	LT	56	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
403+95	RT	57	R1-1	30X30	1	1	5.18	-	1	REGULATORY SIGN	STOP SIGN
404+10	LT	58	MN6-1	21X21	1	-	3.06	-	1	MARKER SIGN	RIGHT ARROW, BROWN
PAGE TOTAL					28	26	109.95	54.25	28		

PERMANENT SIGNING

*Move sign as indicated on sign plan

*Move sign as indicated on sign plan					638.2602	638.3000	637.2210	637.2230	634.0616		
					REMOVING SIGNS	REMOVING SMALL SIGN SUPPORTS	SIGNS TYPE II REFLECTIVE H	SIGNS TYPE II REFLECTIVE F	WOOD POSTS 4X6 INCH 16 FOOT		
STATION LOCATION		SIGN NUMBE R	SIGN CODE	SIZE (IN x IN)	EACH	EACH	S.F.	S.F.	EACH	DESCRIPTION	COMMENTS
404+10	LT	59	M1-7	24X24	1	1	4.00	-	1	MARKER SIGN	NATIONAL FOREST 153
404+10	LT	60	M1-7	24X24	1	1	4.00	-	1	MARKER SIGN	NATIONAL FOREST 153
404+10	LT	61	MN6-1	21X21		-	3.06	-	1	MARKER SIGN	LEFT ARROW, BROWN
414+75	LT	62	MN2-1	21X15		-	2.19	-	-	MARKER SIGN	JCT, BROWN
414+75	LT	63	M1-7	24X24	1	1	4.00	-	1	MARKER SIGN	NATIONAL FOREST 152
418+50	RT	64	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
419+10	LT	65	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
429+50	LT	66	I55-56	30x36	1	1	7.50		1	ADOPT A HIGHWAY	
429+50	RT	67	I55-56	30x36	1	1	7.50		1	ADOPT A HIGHWAY	
430+90	RT	68	R1-1	30X30	1	1	5.18	-	1	REGULATORY SIGN	STOP SIGN
444+95	RT	69	W11-3	30X30	1	1	-	-	-	WARNING SIGN	DEER CROSSING *REMOVE
485+25	LT	70	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
486+50	RT	71	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
505+60	RT	72	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
508+85	LT	73	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
515+70	LT	74	R1-1	30X30	1	1	5.18	-	1	REGULATORY SIGN	STOP SIGN
541+10	RT	75	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
542+05	LT	76	W8-8	30X30	1	1	-			WARNING SIGN	ROUGH ROAD *REMOVE
546+80	LT	77	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
562+20	LT	78	R1-1	30X30	1	1	5.18	-	1	REGULATORY SIGN	STOP SIGN
563+25	LT	79	I55-56	30x36	1	1	7.50		1	ADOPT A HIGHWAY	
571+60	RT	80	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
574+75	RT	81	MN2-1	21X15		-	2.19	-	-	MARKER SIGN	JCT, BROWN
574+75	RT	82	M1-7	24X24	1	1	4.00	-	1	MARKER SIGN	NATIONAL FOREST 149
583+35	RT	83	R1-1	30X30	1	1	5.18	-	1	REGULATORY SIGN	STOP SIGN
590+10	LT	84	MN2-1	21X15		-	2.19	-	-	MARKER SIGN	JCT, BROWN
590+10	LT	85	M1-7	24X24	1	1	4.00	-	1	MARKER SIGN	NATIONAL FOREST 149
593+75	LT	86	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
602+75	LT	87	W11-3	30X30	1	1	-	-	-	WARNING SIGN	DEER CROSSING *REMOVE
633+50	LT	88	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
633+50	LT	89	W8-8	30X30	1	-	-	-	-	WARNING SIGN	ROUGH ROAD *REMOVE
PAGE TOTAL					27	26	72.85	66	24		

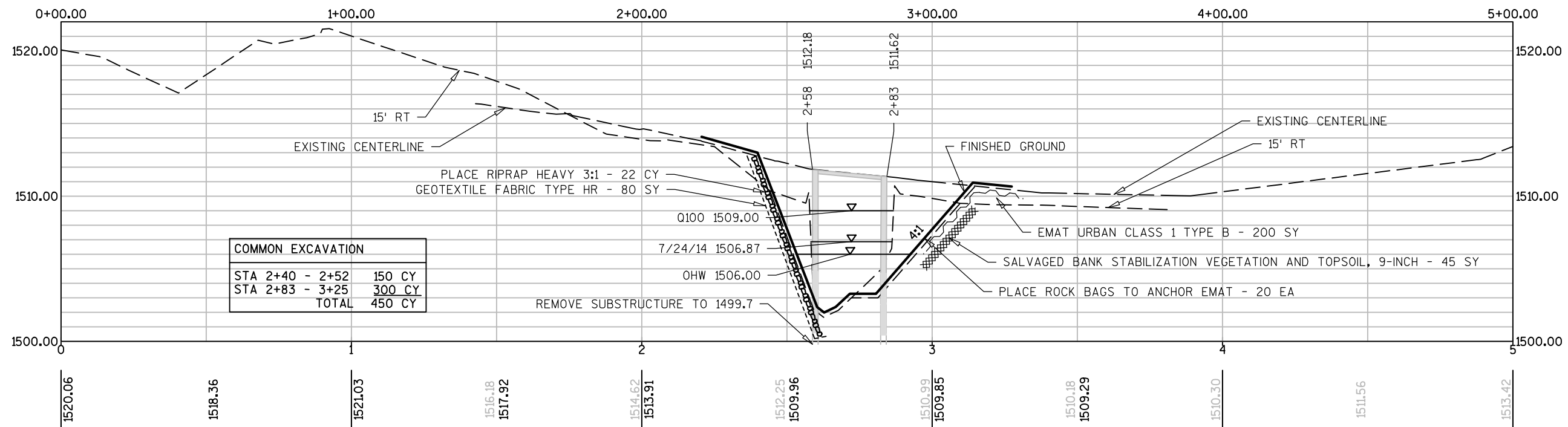
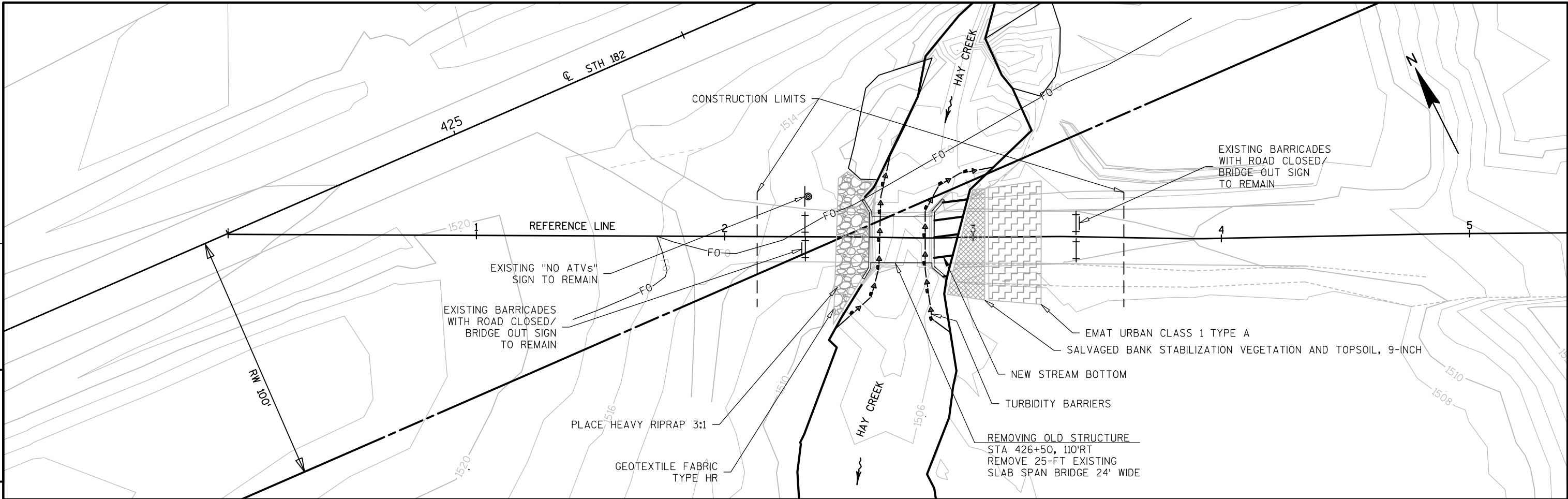
PERMANENT SIGNING

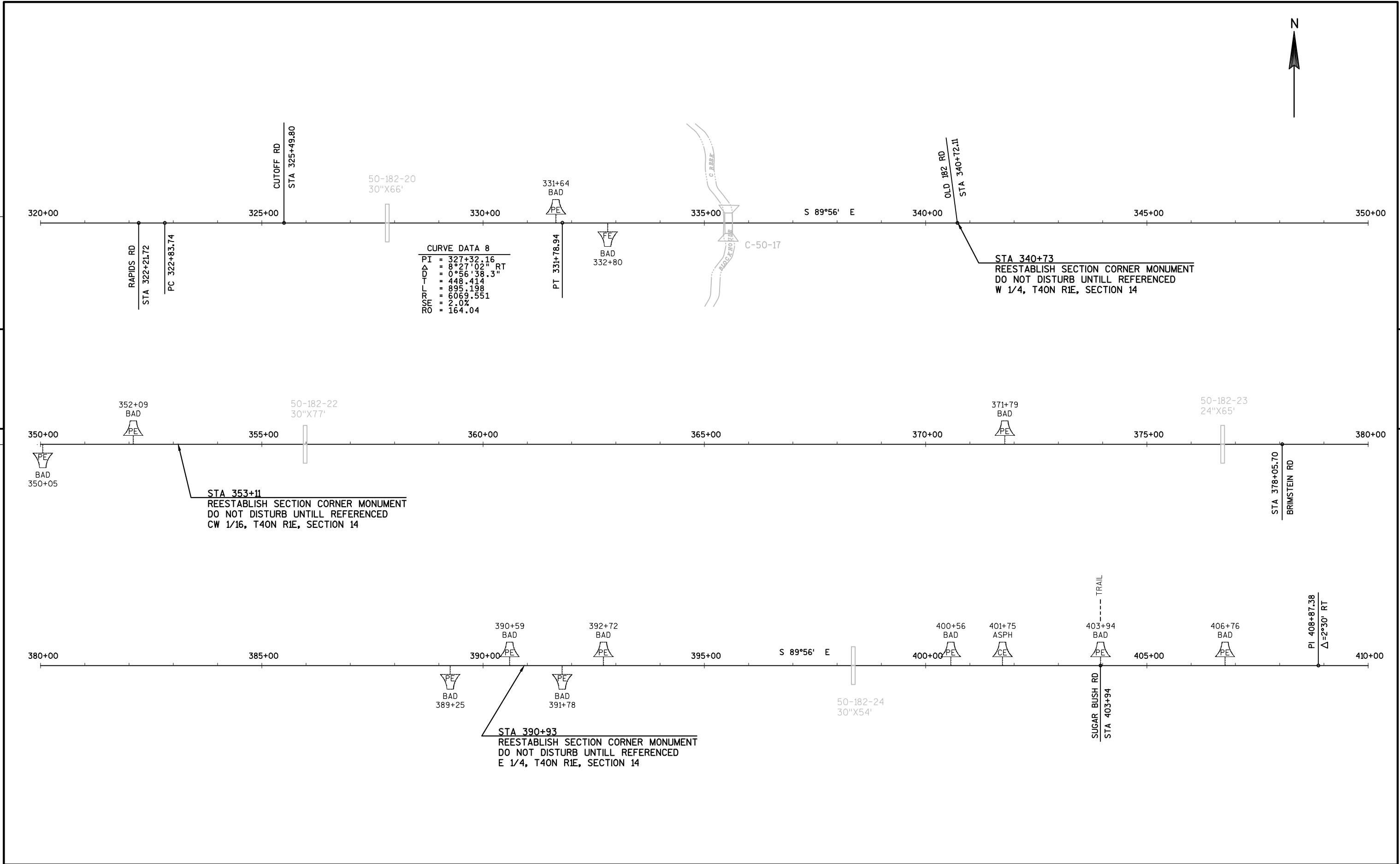
*Move sign as indicated on sign plan

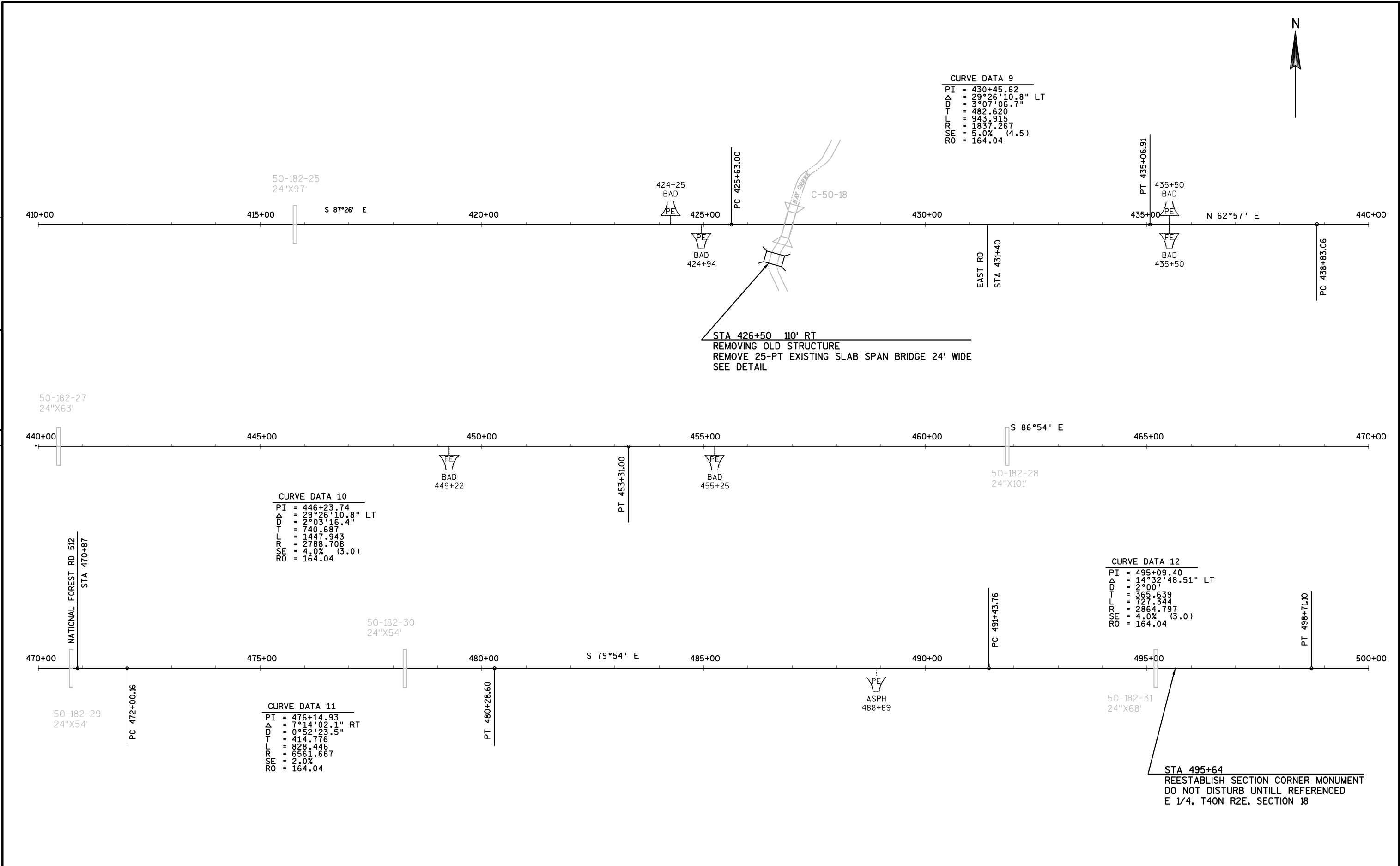
						638.2602	638.3000	637.2210	637.2230	634.0616		
						REMOVING	REMOVING	SIGNS	SIGNS	WOOD POSTS		
						SIGNS	SMALL SIGN	TYPE II	TYPE II	4X6 INCH		
						TYPE II	SUPPORTS	REFLECTIVE H	REFLECTIVE F	16 FOOT		
STATION	LOCATION	SIGN NUMBER	SIGN CODE	SIZE (IN x IN)	EACH	EACH		S.F.	S.F.	EACH	DESCRIPTION	COMMENTS
635+00	RT	90	W14-3	48X36	1	1	-	6		1	WARNING SIGN	NO PASSING ZONE
661+10	RT	91	W14-3	48X36	1	1	-	6		1	WARNING SIGN	NO PASSING ZONE
672+45	LT	92	R1-1	30X30	1	1	5.18	-		1	REGULATORY SIGN	STOP SIGN
682+00	LT	93	W14-3	48X36	1	1	-	6		1	WARNING SIGN	NO PASSING ZONE
696+20	LT	94	R1-1	30X30	1	1	5.18	-		1	REGULATORY SIGN	STOP SIGN
701+00	RT	95	W14-3	48X36	1	1	-	6		1	WARNING SIGN	NO PASSING ZONE
709+00	LT	96	W14-3	48X36	1	1	-	6		1	WARNING SIGN	NO PASSING ZONE
725+75	RT	97	MN2-1	21X15		-	2.19	-		-	MARKER SIGN	JCT, BROWN
725+75	RT	98	M1-7	24X24	1	1	4.00	-		1	MARKER SIGN	NATIONAL FOREST 144
731+70	RT	99	W11-6	30X30	1	1	-	6.25		1	WARNING SIGN	SNOWMOBILE CROSSING
736+22	LT	100	M1-7	24X24		-	4.00	-		-	MARKER SIGN	NATIONAL FOREST 144
736+22	LT	101	D7-63L	60X36	1	2	15.00	-		2	DESTINATION SIGN	NAT'L FOREST CAMPGROUND LA
736+25	RT	103	R1-1	30X30	1	1	5.18	-		1	REGULATORY SIGN	STOP SIGN
744+25	LT	104	MN2-1	21X15		-	2.19	-		-	MARKER SIGN	JCT, BROWN
744+25	LT	105	M1-7	24X24	1	1	4.00	-		1	MARKER SIGN	NATIONAL FOREST 144
747+50	LT	106	W11-6	30X30	1	1	-	6.25		1	WARNING SIGN	SNOWMOBILE CROSSING
758+20	RT	107	R1-1	30X30	1	1	5.18	-		1	REGULATORY SIGN	STOP SIGN
767+50	RT	108	MN2-1	21X15		-	2.19	-		-	MARKER SIGN	JCT, BROWN
767+50	RT	109	M1-7	24X24	1	1	4.00	-		1	MARKER SIGN	NATIONAL FOREST 153
778+80	LT	110	R1-1	30X30	1	1	5.18	-		1	REGULATORY SIGN	STOP SIGN
778+80	RT	111	M1-7	24X24	1	1	4.00	-		1	MARKER SIGN	NATIONAL FOREST 153
778+80	RT	112	MN6-1	21X21		-	3.06	-		-	MARKER SIGN	LEFT ARROW, BROWN
778+80	RT	113	M1-7	24X24		-	4.00	-		-	MARKER SIGN	NATIONAL FOREST 153
778+80	RT	114	MN6-1	21X21		-	3.06	-		-	MARKER SIGN	RIGHT ARROW, BROWN
782+15	RT	115	W14-3	48X36	1	1	-	6		1	WARNING SIGN	NO PASSING ZONE
782+15	LT	116	W14-3	48X36	1	1	-	6		1	WARNING SIGN	NO PASSING ZONE
785+50	LT	117	D7-62	60X42	1	1	17.50	-		2	DESTINATION SIGN	ROAD TO NATL FOREST CAMPGROUND 1 MILE
789+50	LT	118	MN2-1	21X15		-	2.19	-		-	MARKER SIGN	JCT, BROWN
789+50	LT	119	M1-7	24X24	1	1	4.00	-		1	MARKER SIGN	NATIONAL FOREST 153
PAGE TOTAL					21	22	101.28	54.5		23		

PERMANENT SIGNING

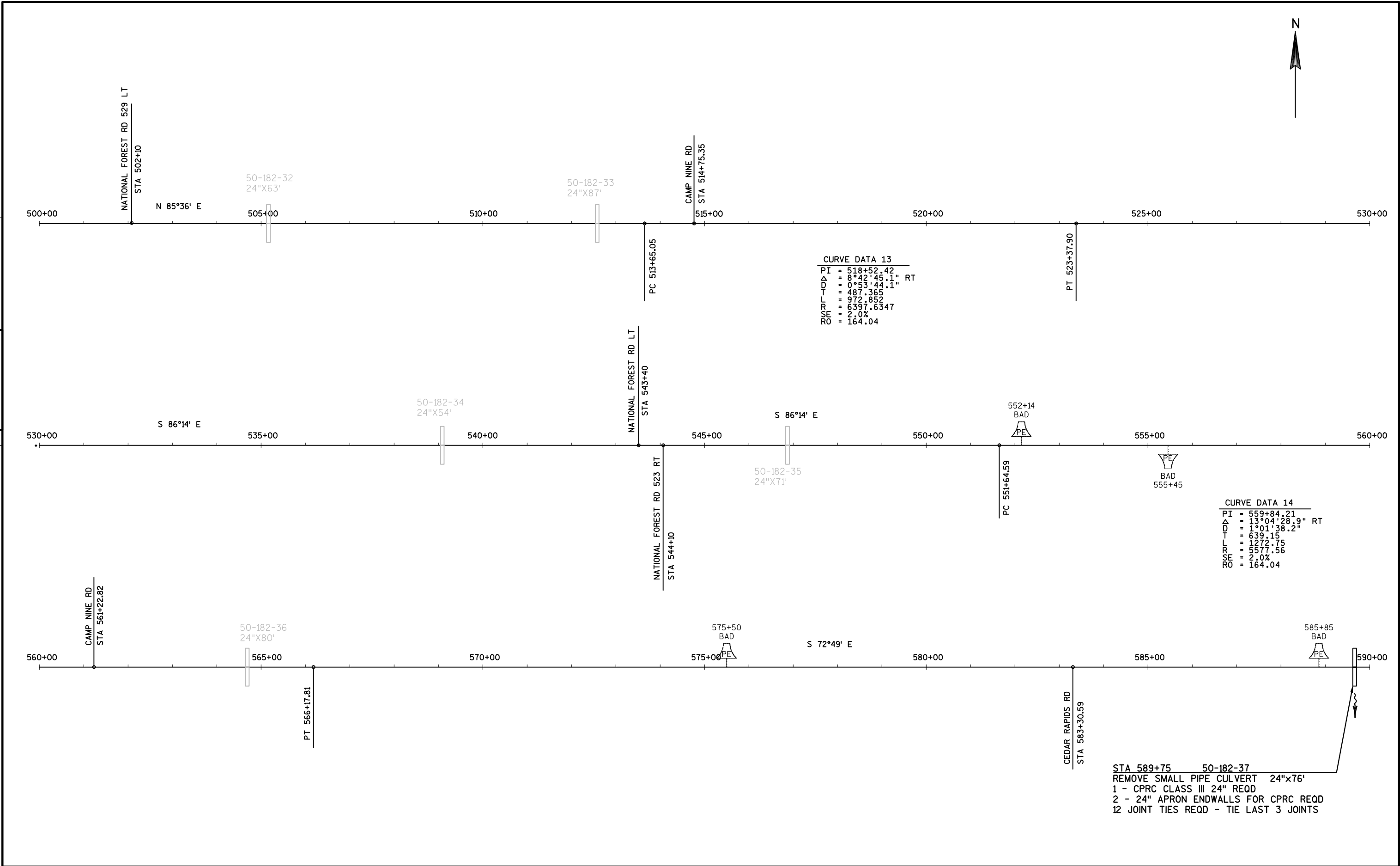
*Move sign as indicated on sign plan					638.2602	638.3000	637.2210	637.2230	634.0616		
					REMOVING	REMOVING	SIGNS	SIGNS	WOOD POSTS		
					SIGNS	SMALL SIGN	TYPE II	TYPE II	4X6 INCH		
					TYPE II	SUPPORTS	REFLECTIVE H	REFLECTIVE F	16 FOOT		
STATION LOCATION		SIGN	SIGN CODE	SIZE (IN x IN)					EACH	DESCRIPTION	COMMENTS
		NUMBE			EACH	EACH	S.F.	S.F.			
796+50	RT	120	R1-1	30X30	1	1	5.18	-	1	REGULATORY SIGN	STOP SIGN
804+00	RT	121	R2-1	24X30	1	1	5.00	-	1	REGULATORY SIGN	SPEED LIMIT 55
806+10	LT	122	R2-1	24X30	1	1	5.00	-	1	REGULATORY SIGN	SPEED LIMIT 55
806+50	RT	123	R2-1	24X30	1	-	5.00	-	1	REGULATORY SIGN	SPEED LIMIT 55
806+50	RT	124	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
808+30	RT	125	R1-1	30X30	1	1	5.18	-	1	REGULATORY SIGN	STOP SIGN
826+50	RT	126	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
826+50	LT	127	W14-3	48X36	1	1	-	6	1	WARNING SIGN	NO PASSING ZONE
827+80	RT	128	R1-1	30X30	1	1	5.18	-	1	REGULATORY SIGN	STOP SIGN
PAGE TOTAL					9	8	30.54	18	9		
GRAND TOTAL					109	104	419.21	229	106		

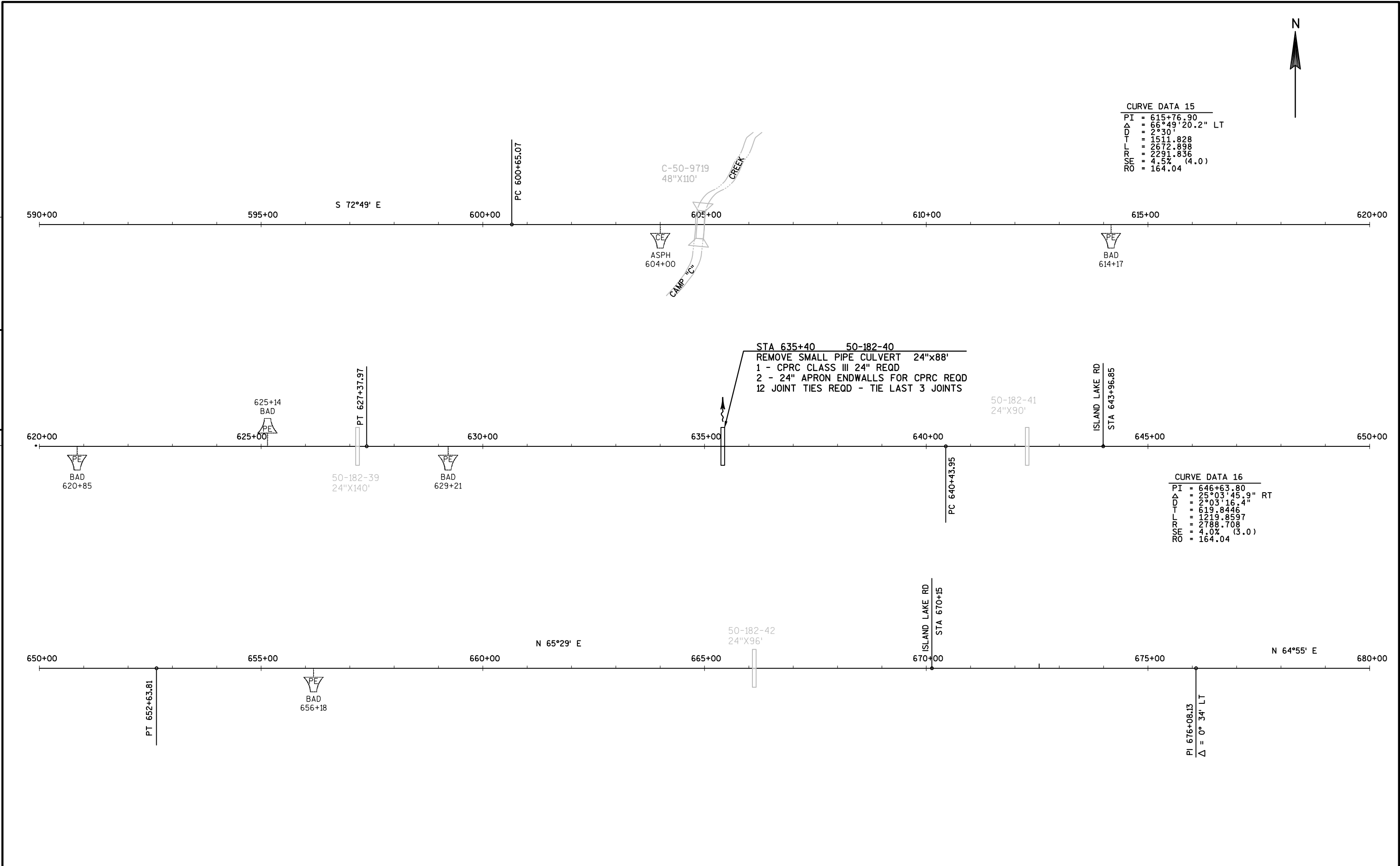


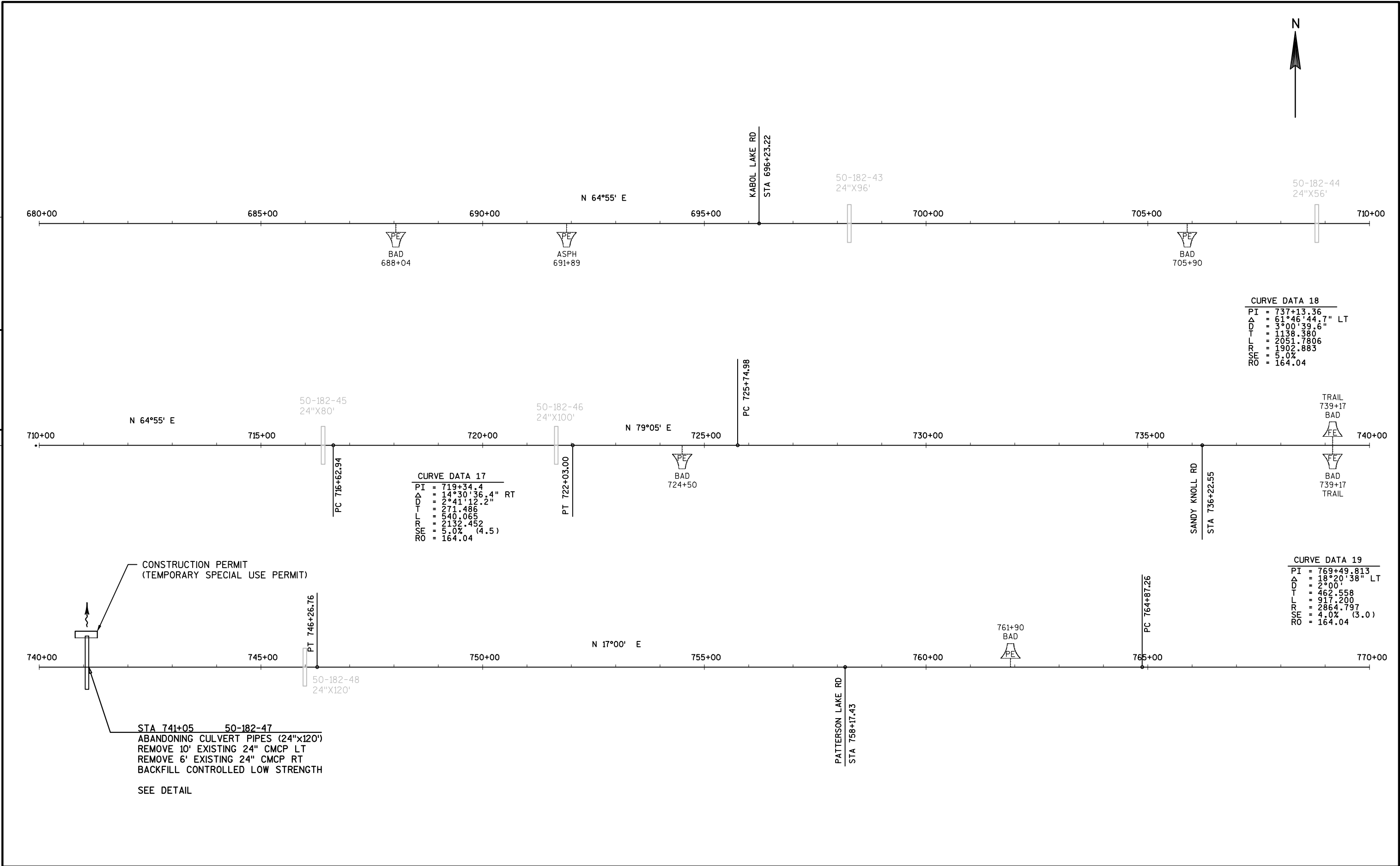


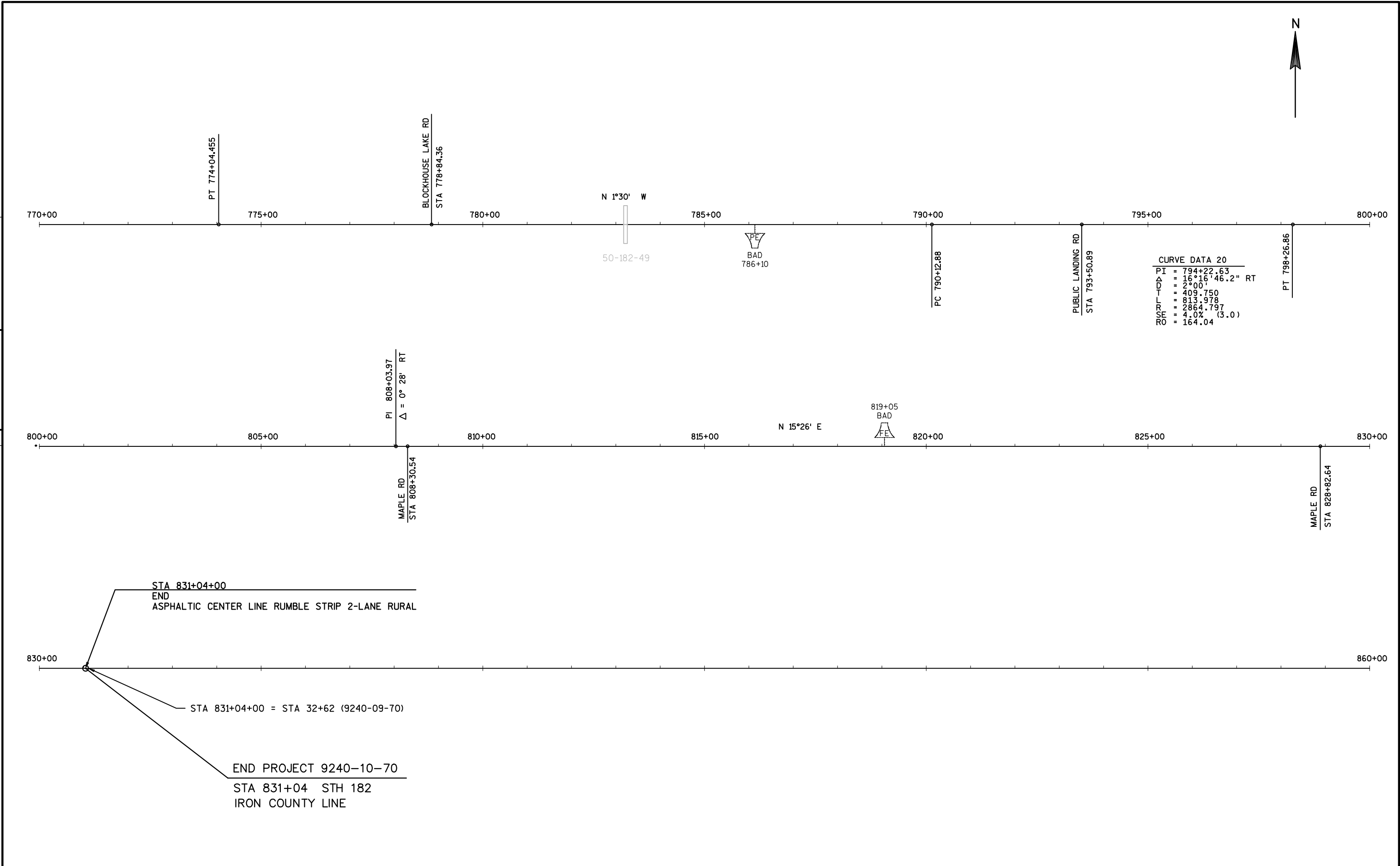


PROJECT NO:9240-10-70	HWY:STH 182	COUNTY:PRICE	LINE DIAGRAM	SHEET	5
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Standard Detail Drawing List

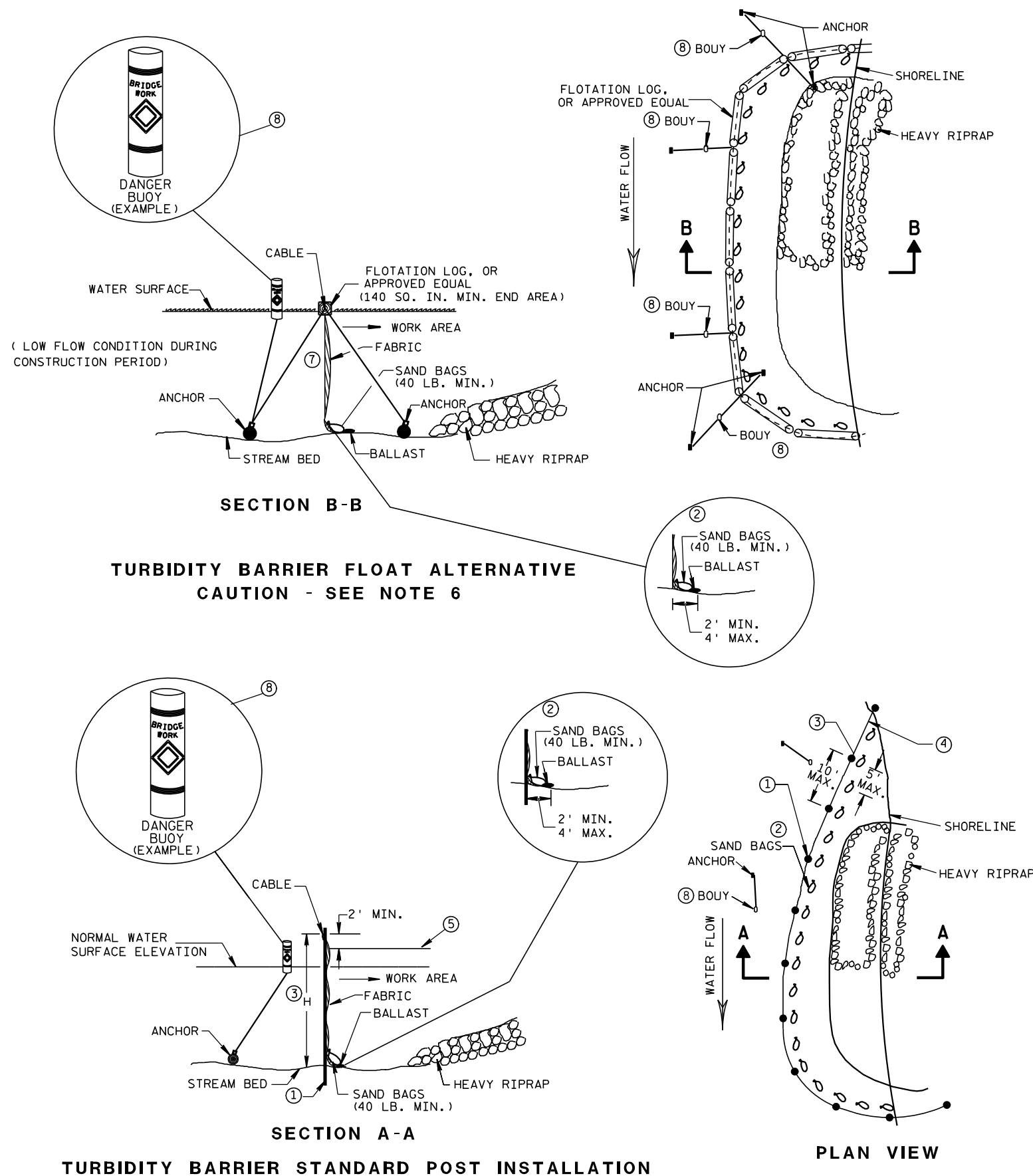
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B29-01	SAFETY EDGE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M. P. H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-02A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS



- 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.



<p>SILT FENCE</p>	
<p>STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</p>	
<p>APPROVED 4-29-05 DATE</p>	<p>/s/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER</p>

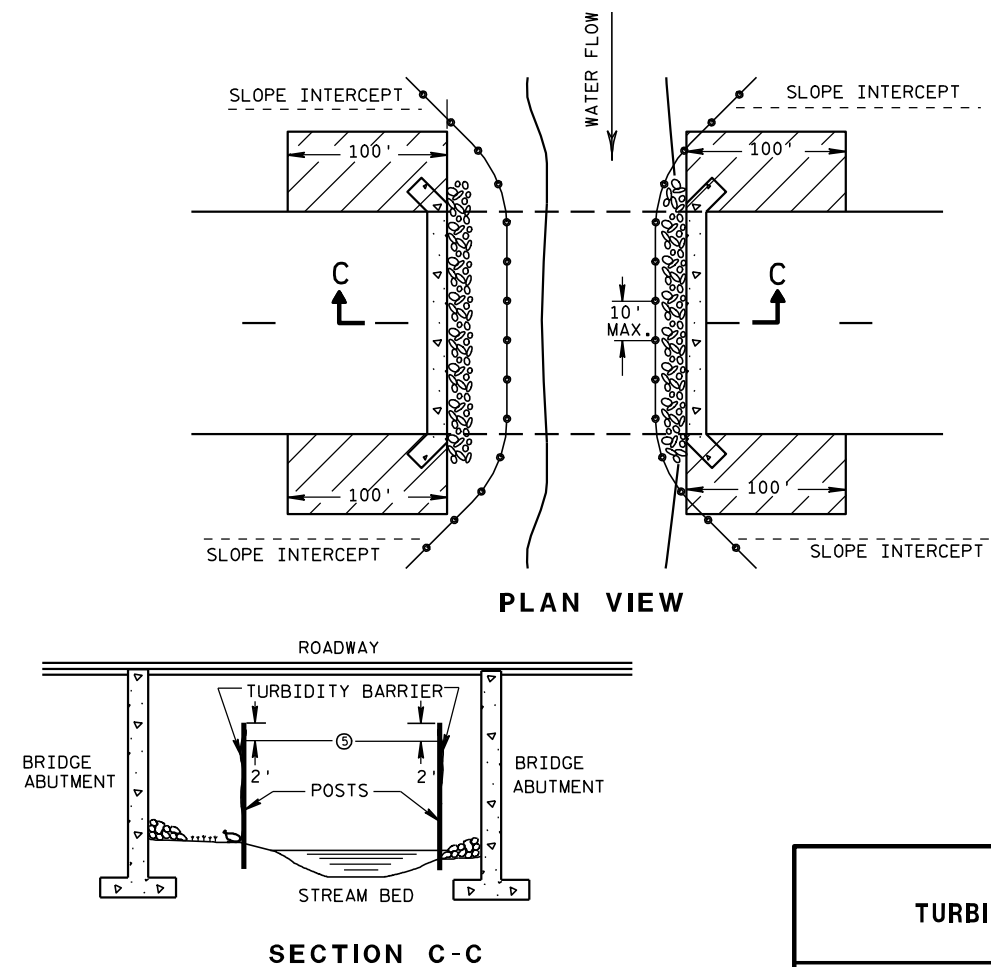


GENERAL NOTES

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.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- ② SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- ③ WHEN BARRIER HEIGHT, H, EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.
- ④ IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- ⑤ ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- ⑥ FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.
- ⑦ ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- ⑧ USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

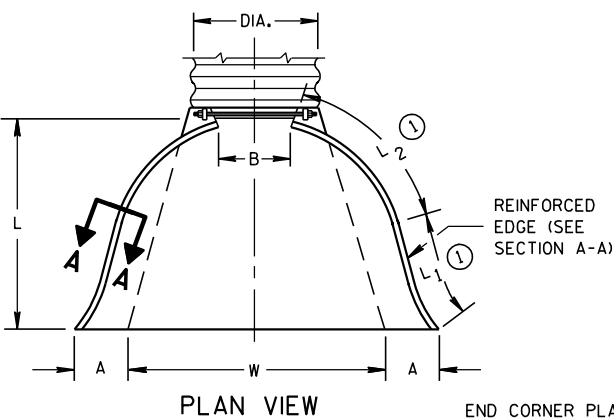
6/04/02
DATE

FHWA

/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

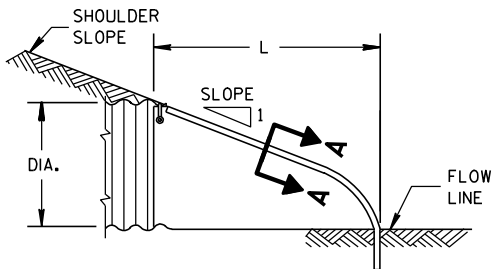
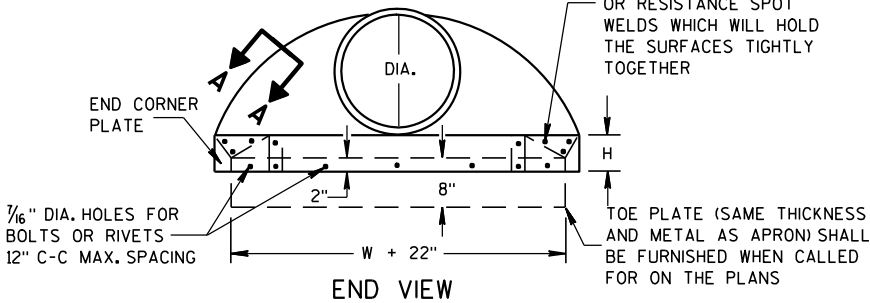
METAL APRON ENDWALLS												
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY	
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1½")	L ₁ ①	L ₂ ①	W (±2")			
12	.064	.060	6	6	6	21	12	17½	24	2½ to 1	1 Pc.	
15	.064	.060	7	8	6	26	14	21¾	30	2½ to 1	1 Pc.	
18	.064	.060	8	10	6	31	15	28¼	36	2½ to 1	1 Pc.	
21	.064	.060	9	12	6	36	18	29⅝	42	2½ to 1	1 Pc.	
24	.064	.075	10	13	6	41	18	37¼	48	2½ to 1	1 Pc.	
30	.079	.075	12	16	8	51	18	52¼	60	2½ to 1	1 Pc.	
36	.079	.105	14	19	9	60	24	59¾	72	2½ to 1	2 Pc.	
42	.109	.105	16	22	11	69	24	75⅝	84	2½ to 1	2 Pc.	
48	.109	.105	18	27	12	78	24	81	90	2¼ to 1	3 Pc.	
54	.109	.105	18	30	12	84	30	85½	102	2¼ to 1	3 Pc.	
60	.109x	.105x	18	33	12	87	—	—	114	2 to 1	3 Pc.	
66	.109x	.105x	18	36	12	87	—	—	120	2 to 1	3 Pc.	
72	.109x	.105x	18	39	12	87	—	—	126	2 to 1	3 Pc.	
78	.109x	.105x	18	42	12	87	—	—	132	1½ to 1	3 Pc.	
84	.109x	.105x	18	45	12	87	—	—	138	1½ to 1	3 Pc.	
90	.109x	.105x	18	37	12	87	—	—	144	1½ to 1	3 Pc.	
96	.109x	.105x	18	35	12	87	—	—	150	1½ to 1	3 Pc.	

* EXCEPT CENTER PANEL
SEE GENERAL NOTES



END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER

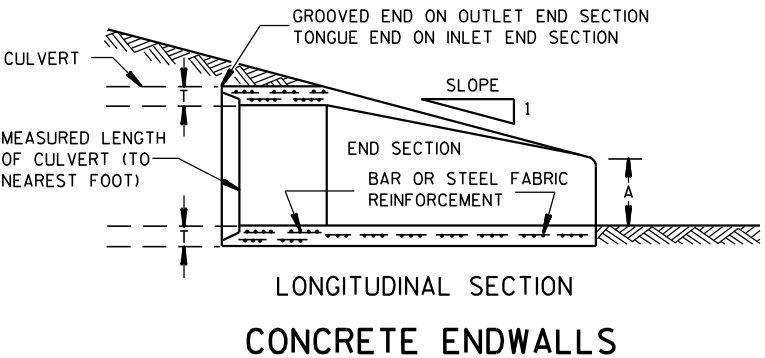
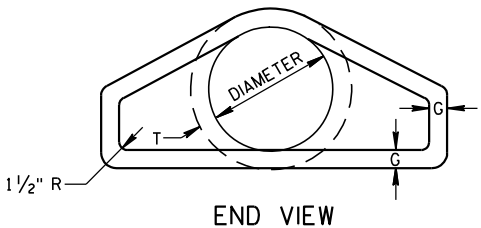
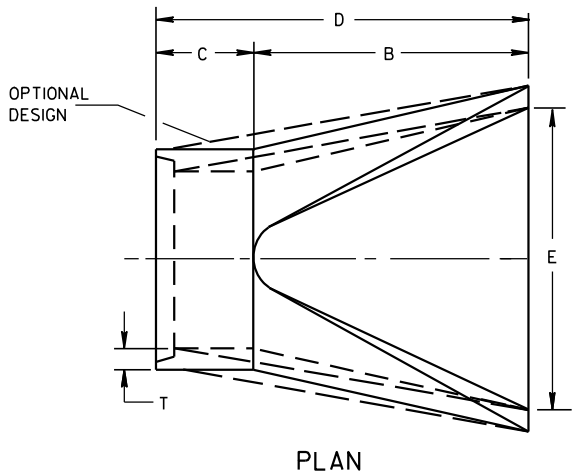
TOE PLATE (SAME THICKNESS AND METAL AS APRON) SHALL BE FURNISHED WHEN CALLED FOR ON THE PLANS



SIDE ELEVATION
METAL ENDWALLS

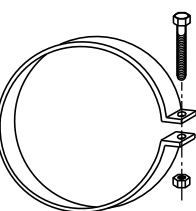
REINFORCED CONCRETE APRON ENDWALLS								
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
12	2	4	24	48 ⁷ / ₈	72 ⁷ / ₈	24	2	3 to 1
15	2 ¹ / ₄	6	27	46	73	30	2 ¹ / ₄	3 to 1
18	2 ¹ / ₂	9	27	46	73	36	2 ¹ / ₂	3 to 1
21	2 ³ / ₄	9	36	37 ¹ / ₂	73 ¹ / ₂	42	2 ³ / ₄	3 to 1
24	3	9 ¹ / ₂	43 ¹ / ₂	30	73 ¹ / ₂	48	3	3 to 1
27	3 ¹ / ₄	10 ¹ / ₂	49 ¹ / ₂	24	73 ¹ / ₂	54	3 ¹ / ₄	3 to 1
30	3 ¹ / ₂	12	54	19 ³ / ₄	73 ¹ / ₂	60	3 ¹ / ₂	3 to 1
36	4	15	63	34 ³ / ₄	97 ³ / ₄	72	4	3 to 1
42	4 ¹ / ₂	21	63	35	98	78	4 ¹ / ₂	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 ¹ / ₂	27	65	33 ¹ / ₄ -35	98 ¹ / ₄ -100	90	5 ¹ / ₂	2 ¹ / ₂ to 1
60	6	30-35	60	39	99	96	5	2 to 1
66	6 ¹ / ₂	24-30	72-78	21-27	99	102	5 ¹ / ₂	2 to 1
72	7	24-36	78	21	99	108	6	2 to 1
78	7 ¹ / ₂	24-36	78	21	99	114	6 ¹ / ₂	2 to 1
84	8	36	90 ¹ / ₂	21	111 ¹ / ₂	120	6 ¹ / ₂	1 ¹ / ₂ to 1
90	8 ¹ / ₂	41	87 ¹ / ₂	24	111 ¹ / ₂	132	6 ¹ / ₂	1 ¹ / ₂ to 1

* MINIMUM
** MAXIMUM

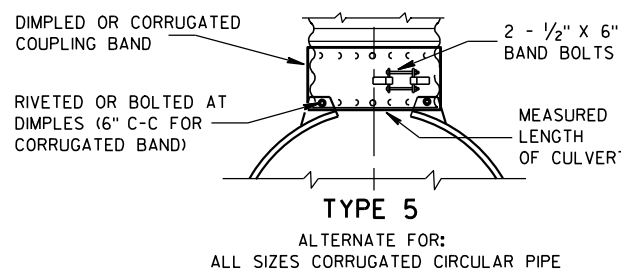
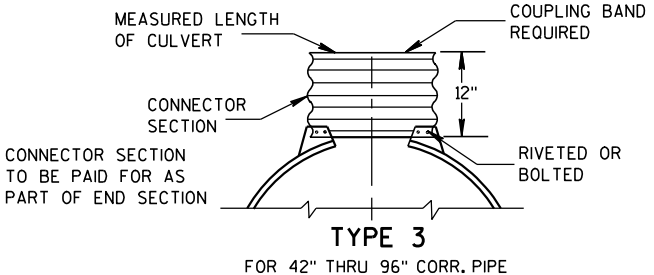
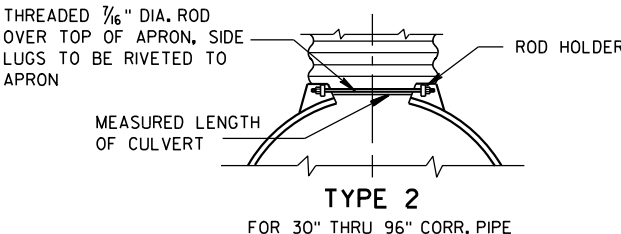
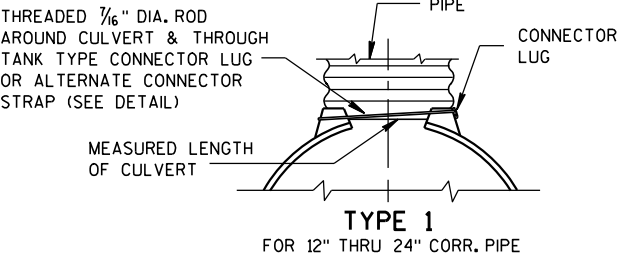


LONGITUDINAL SECTION
CONCRETE ENDWALLS

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT



ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP



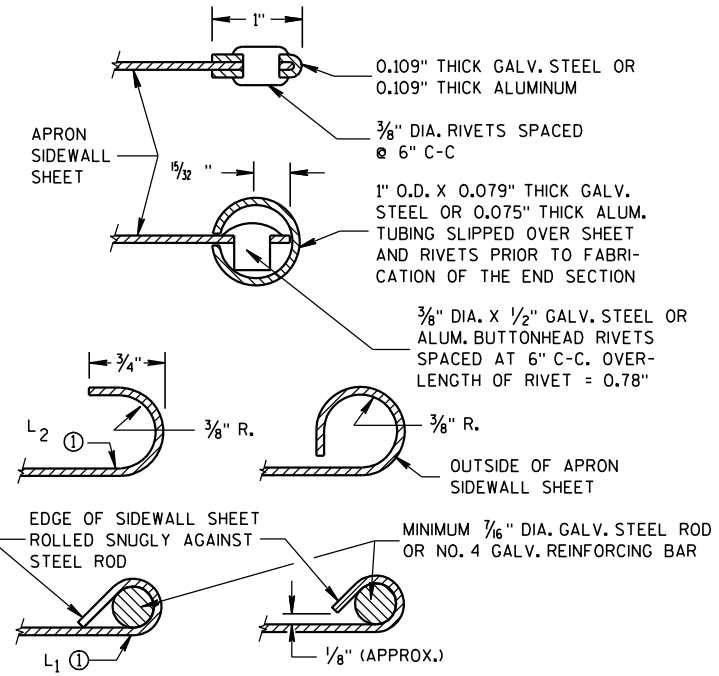
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

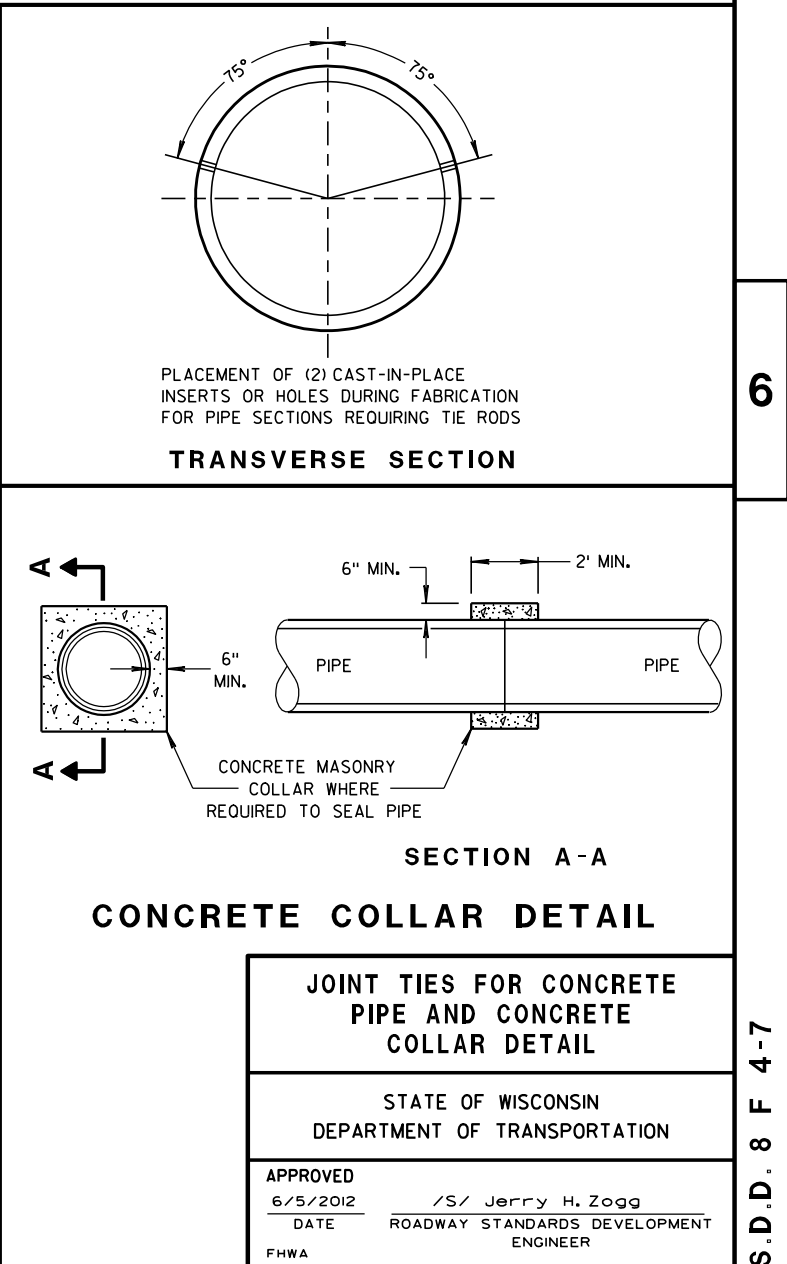
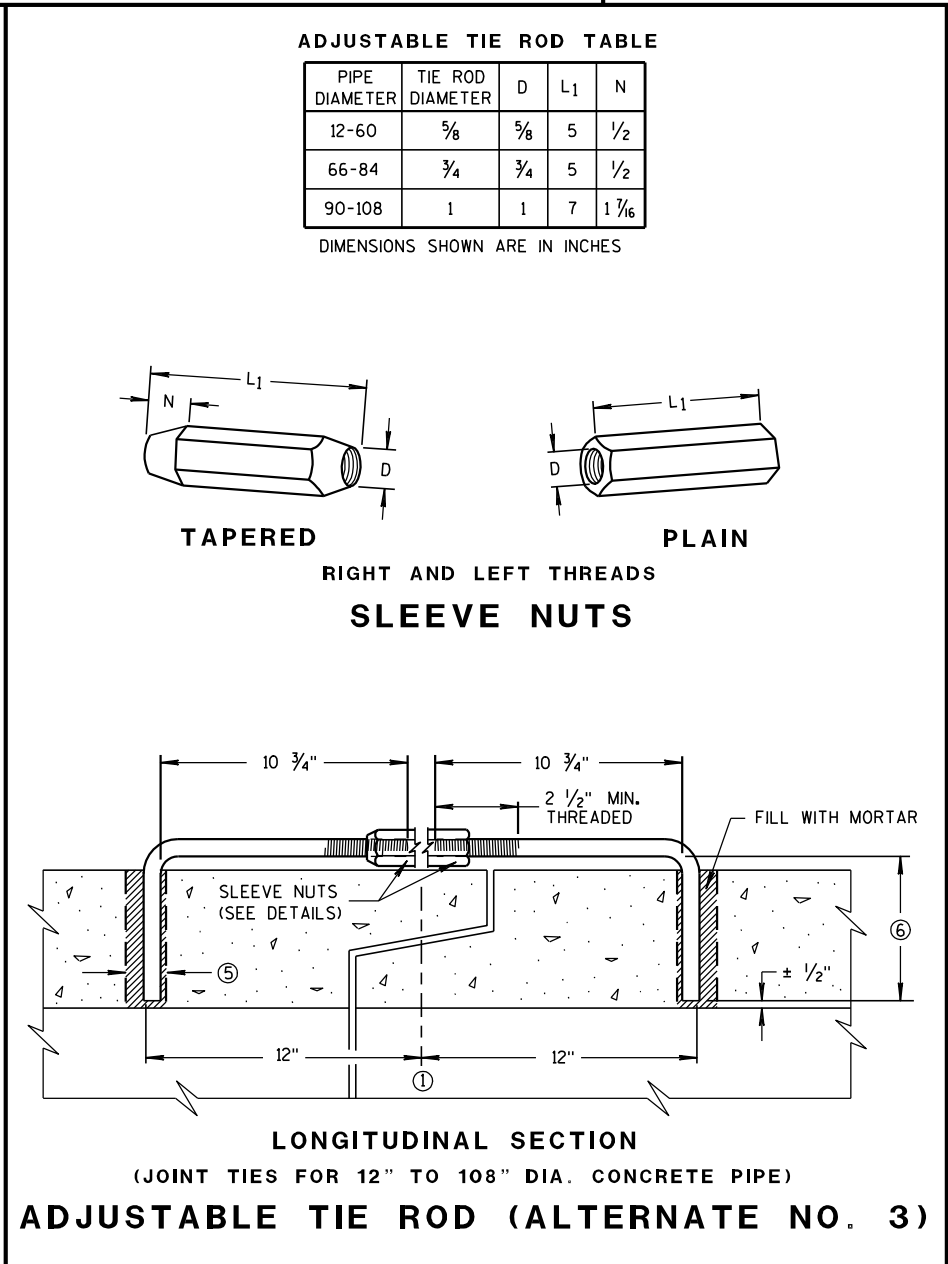
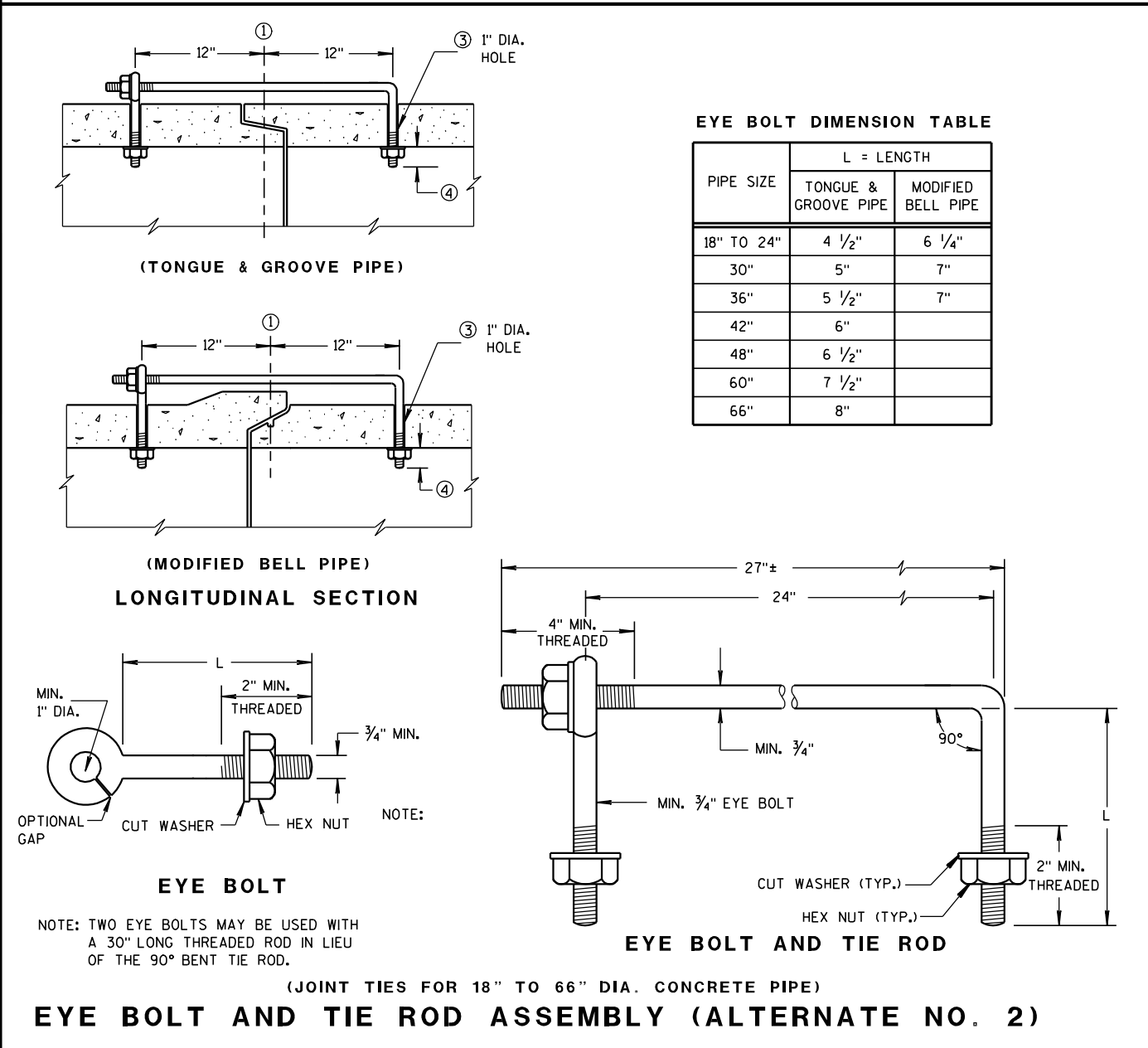
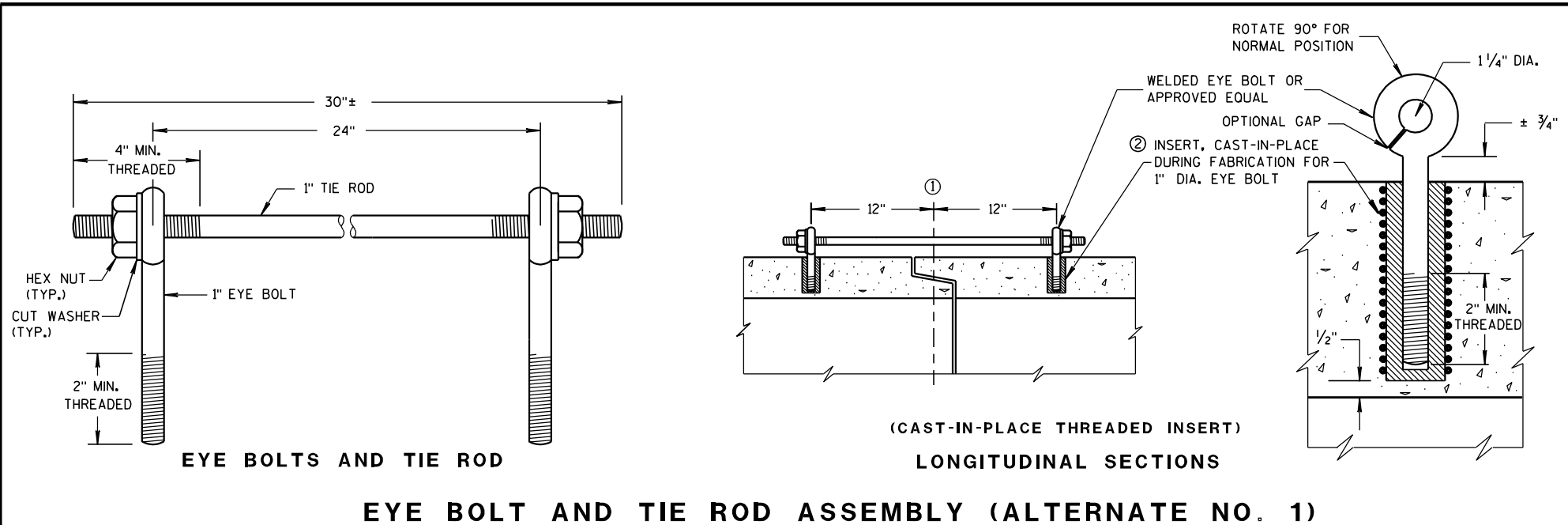
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

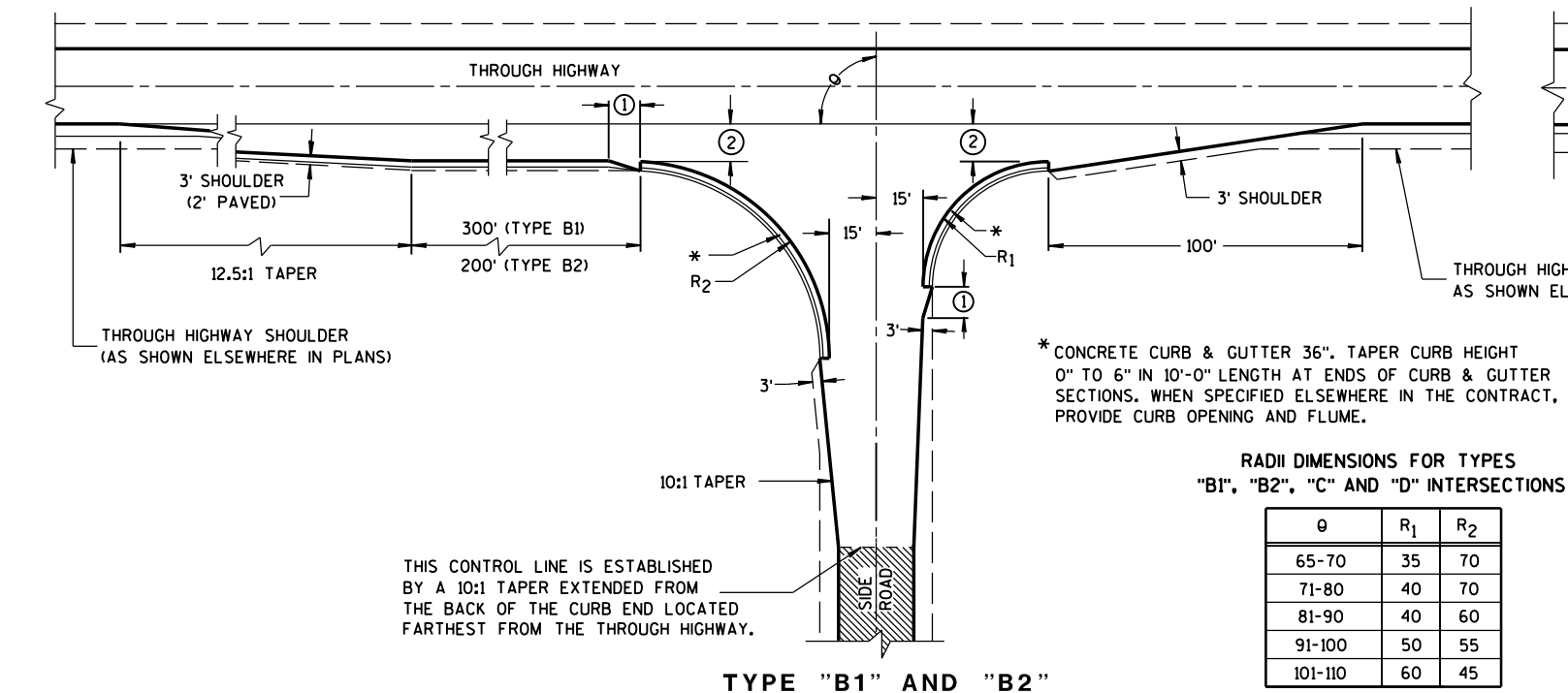
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR
CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94
DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA





RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R ₁	R ₂
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

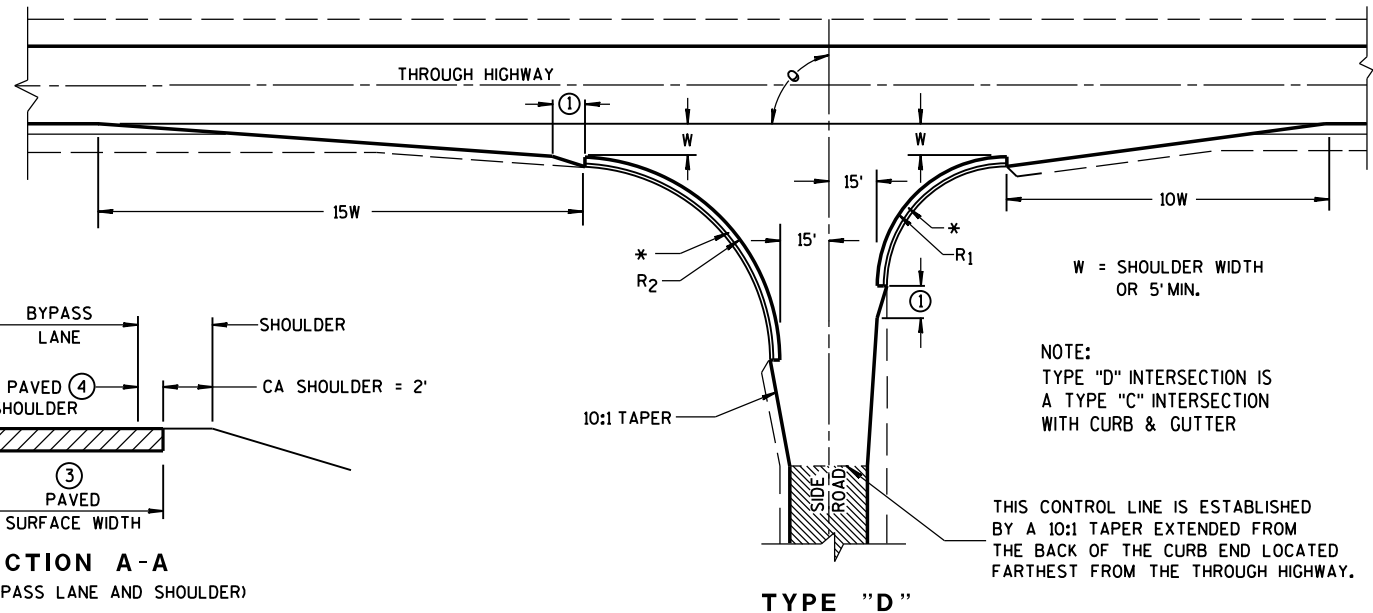
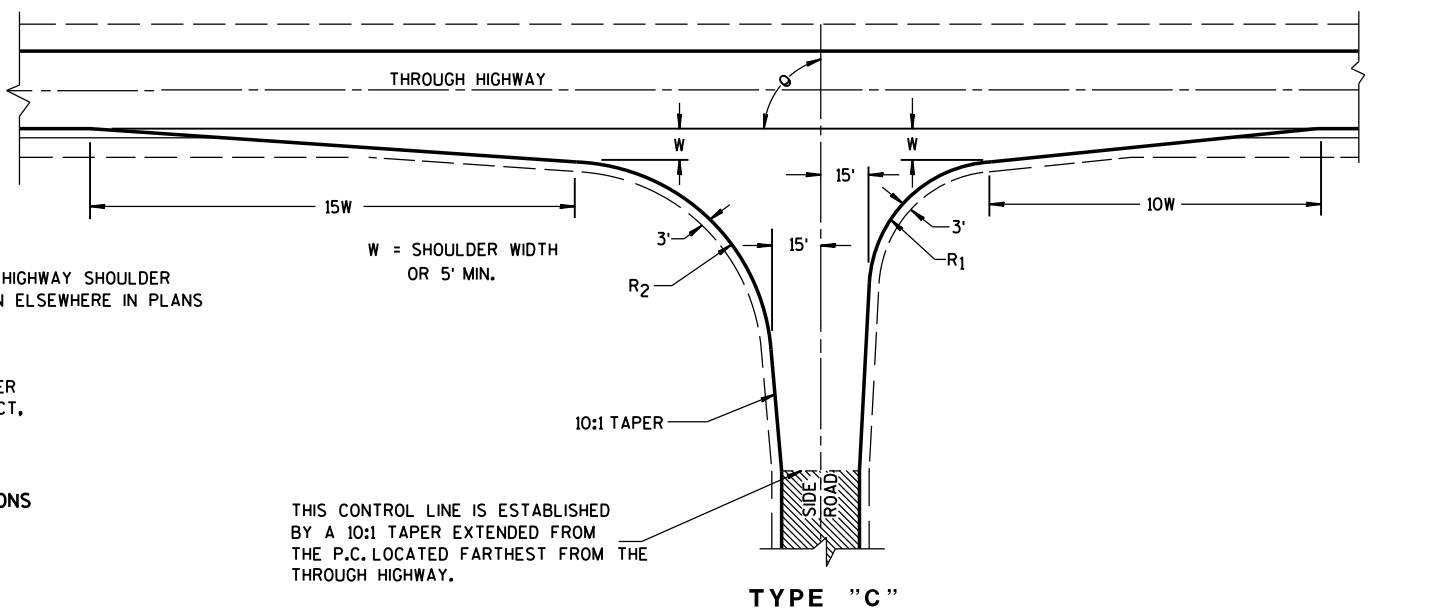
WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

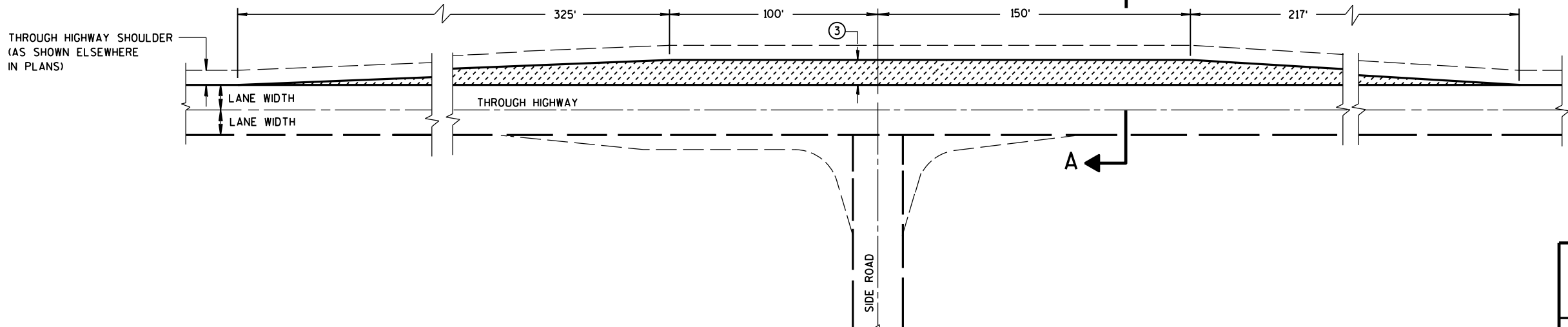
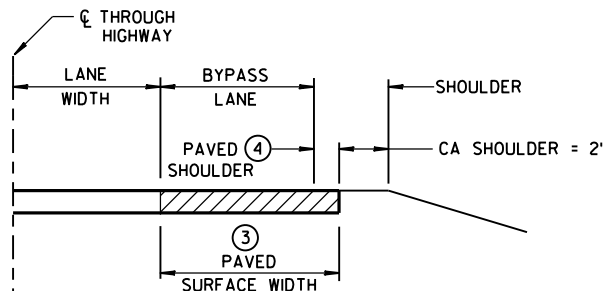
BYPASS LANE

- ① 10-FT TYPICAL.
- ② 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.
- ③ BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.
- ④ BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



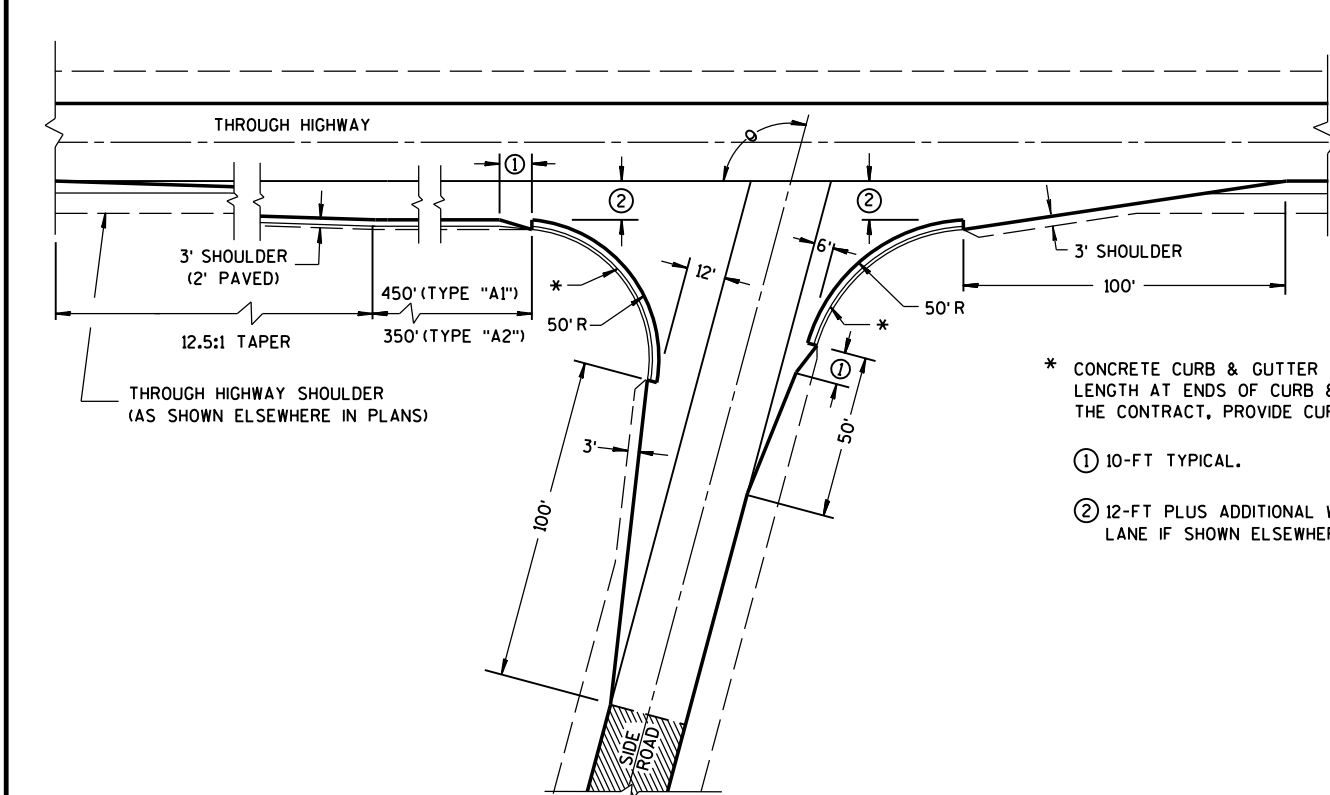
NOTE:
TYPE "D" INTERSECTION IS A TYPE "C" INTERSECTION WITH CURB & GUTTER



TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

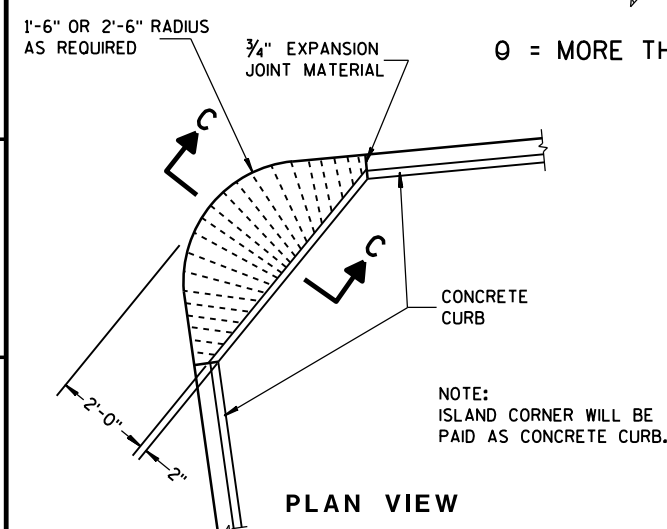
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



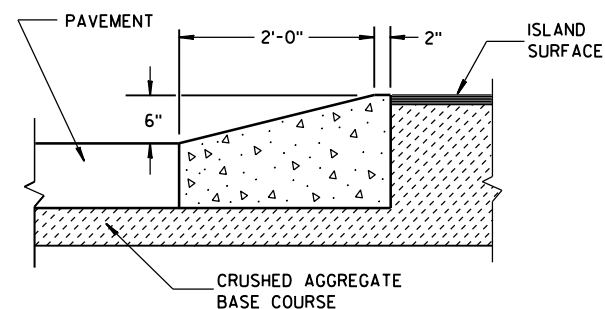
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10-FT TYPICAL.

② 12-FT PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLANS.



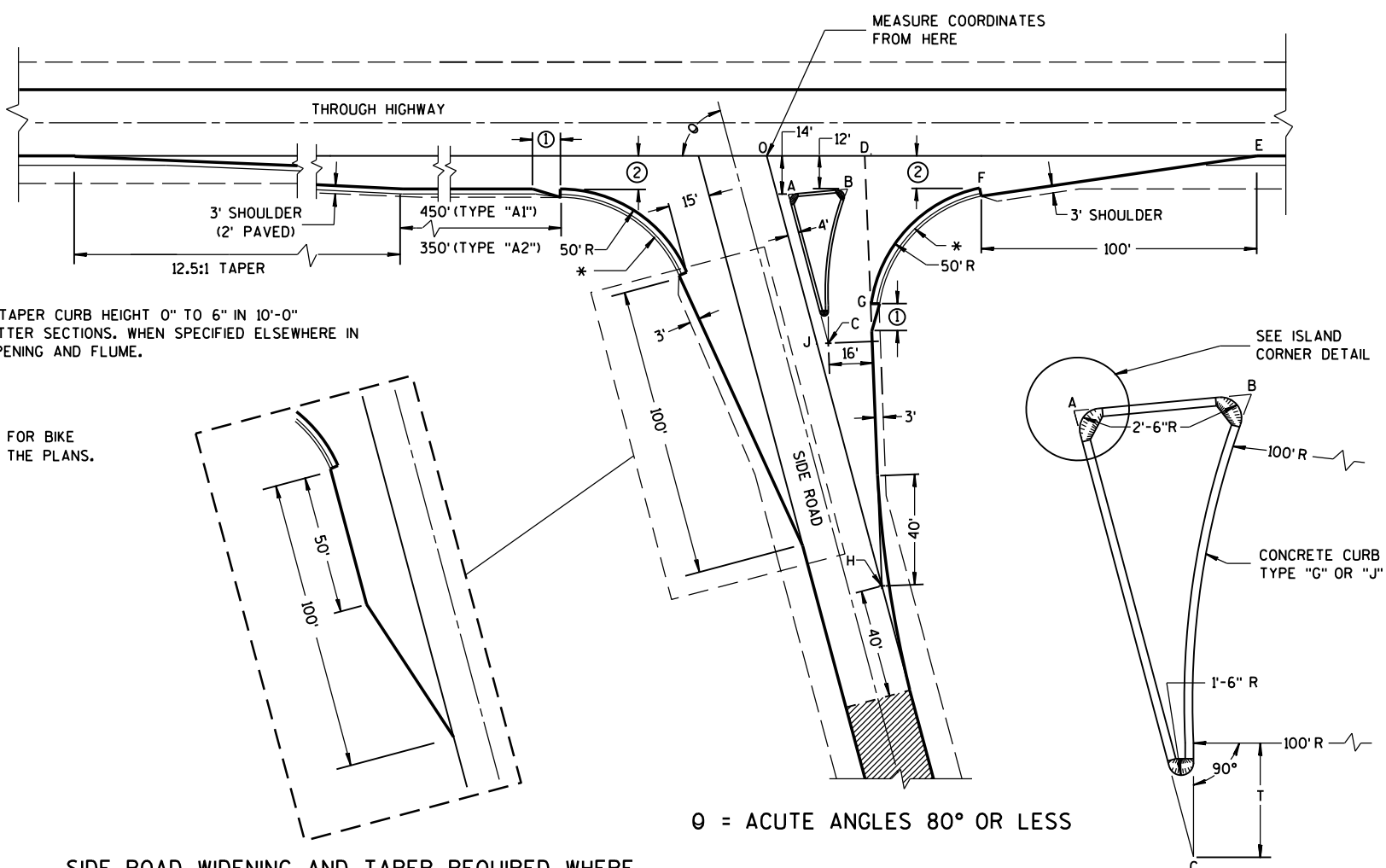
PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)



SIDE ROAD WIDENING AND TAPER REQUIRED WHERE THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
 θ = ACUTE ANGLES 70° OR LESS

TABLE OF DIMENSIONS FOR
 VARIABLE SIDE ROAD INTERSECTION ANGLES

(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

ANGLE θ DEGREES	COORDINATES IN FEET (MEASURED FROM POINT "O")								LENGTH IN FEET				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	12.7	44.9	46.4	41.9	205.0	104.6	64.0	85.0	32.3	67.4	4.9	85.9	169.9
	-14.0	-12.0	-72.4	0.0	0.0	-12.0	-75.5	-147.1					
65	10.9	39.0	37.8	39.4	196.1	95.7	54.1	70.5	28.2	63.6	8.5	80.9	166.9
	-14.0	-12.0	-71.6	0.0	0.0	-12.0	-71.5	-151.3					
70	9.4	33.9	29.8	37.4	188.3	87.8	45.6	56.1	24.6	59.7	11.5	76.1	164.1
	-14.0	-12.0	-70.1	0.0	0.0	-12.0	-67.5	-154.2					
75	7.9	29.3	22.3	35.7	181.2	80.7	38.2	41.8	21.5	55.8	13.8	71.4	161.4
	-14.0	-12.0	-67.9	0.0	0.0	-12.0	-63.4	-155.9					
80	6.5	25.4	15.6	34.4	174.8	74.4	31.8	27.6	18.9	52.0	15.6	66.9	158.9
	-14.0	-12.0	-65.2	0.0	0.0	-12.0	-59.3	-156.5					

TYPE "A1" & "A2" SIDE ROAD INTERSECTION DETAILS

AT-GRADE SIDE ROAD
 INTERSECTION, TYPE "A1" & "A2"

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

APPROVED

12/18/12

DATE

FHWA

/S/ Jerry H. Zogg

ROADWAY STANDARDS DEVELOPMENT

ENGINEER

GENERAL NOTES

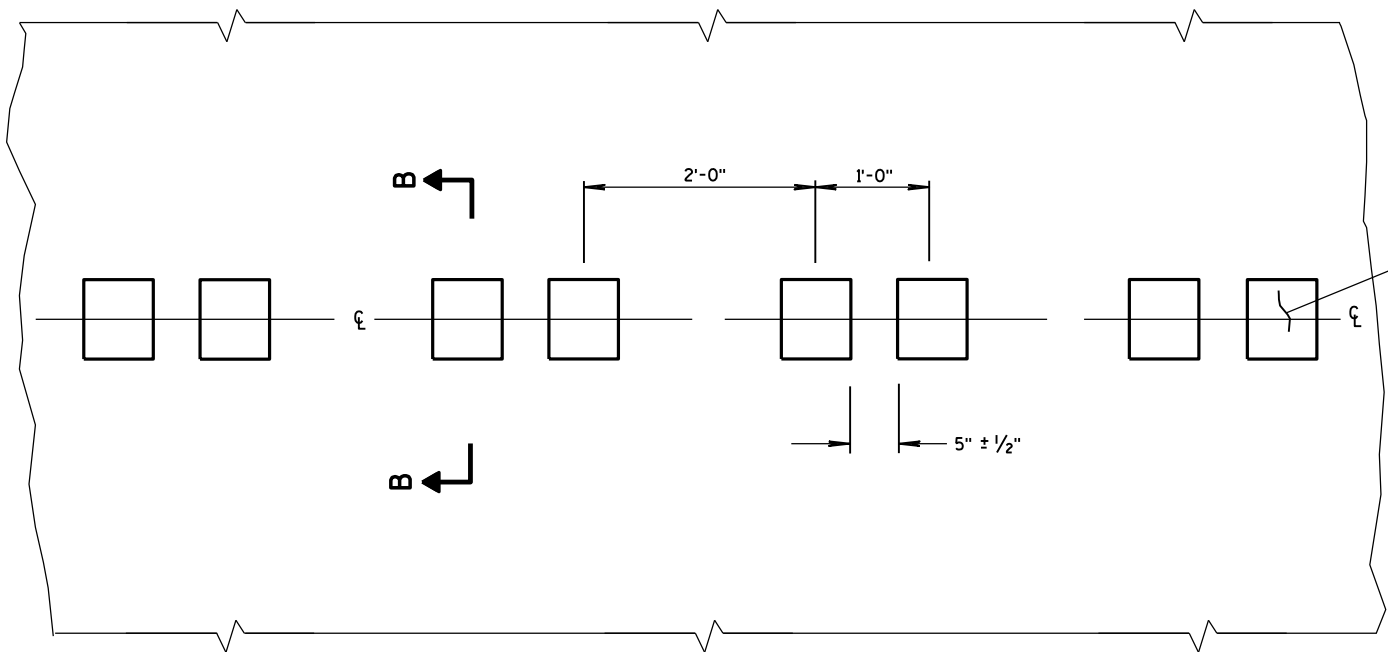
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

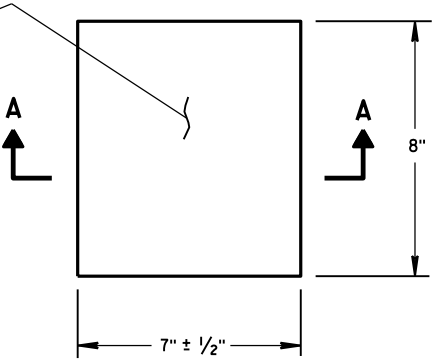
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

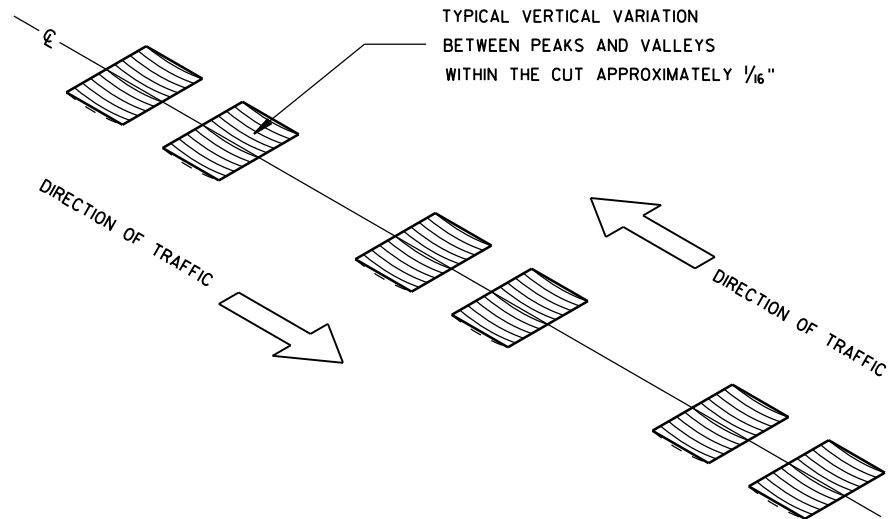
- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



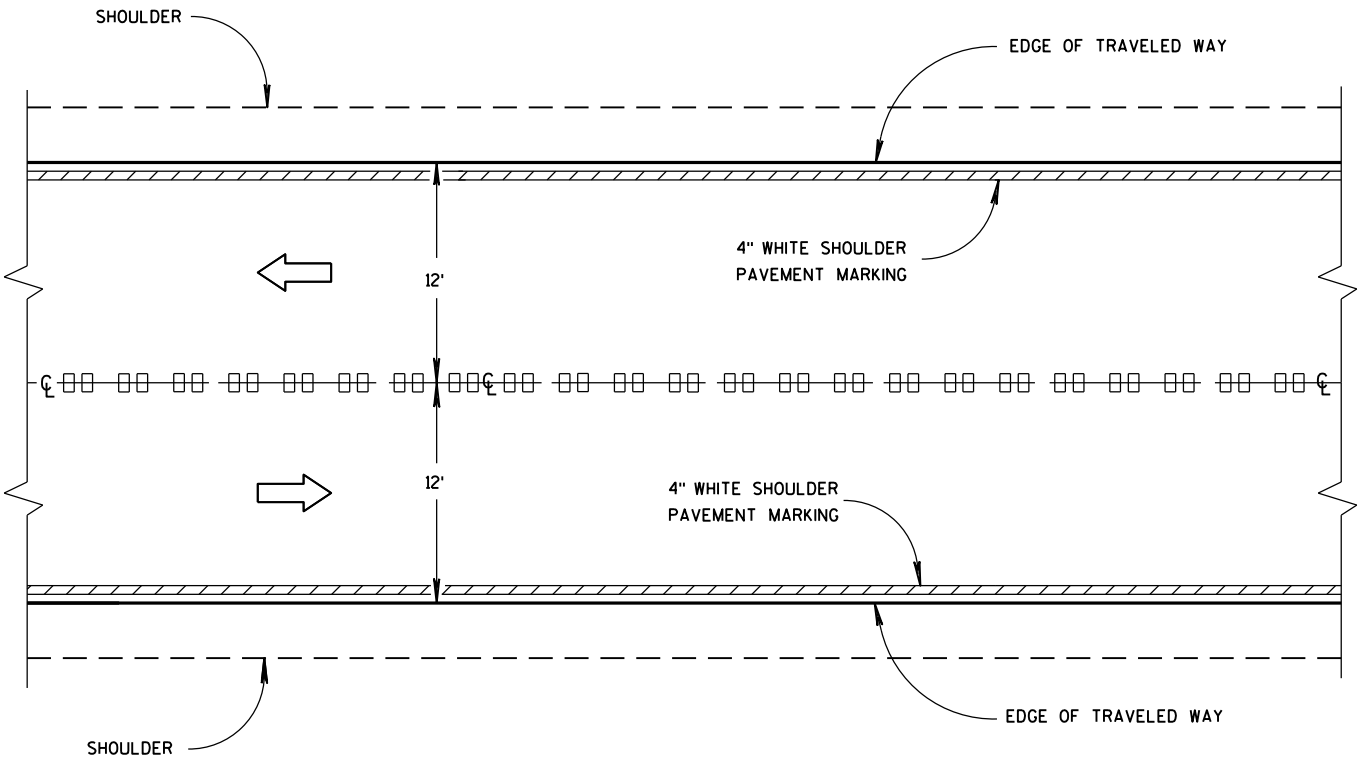
PLAN VIEW
CENTER LINE WITH GROOVES



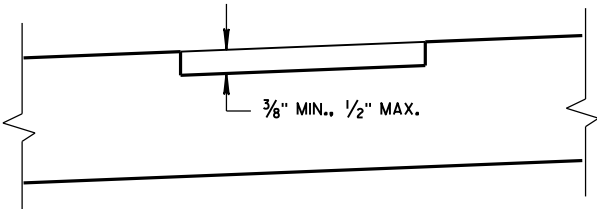
PLAN VIEW
(SINGLE GROOVE)



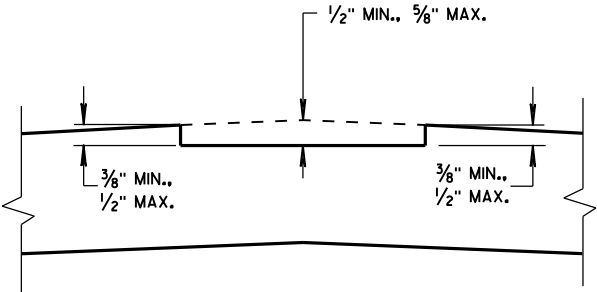
ISOMETRIC



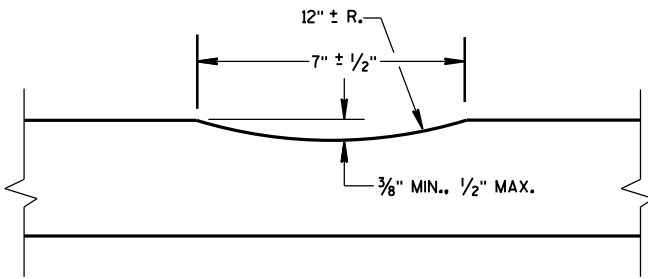
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



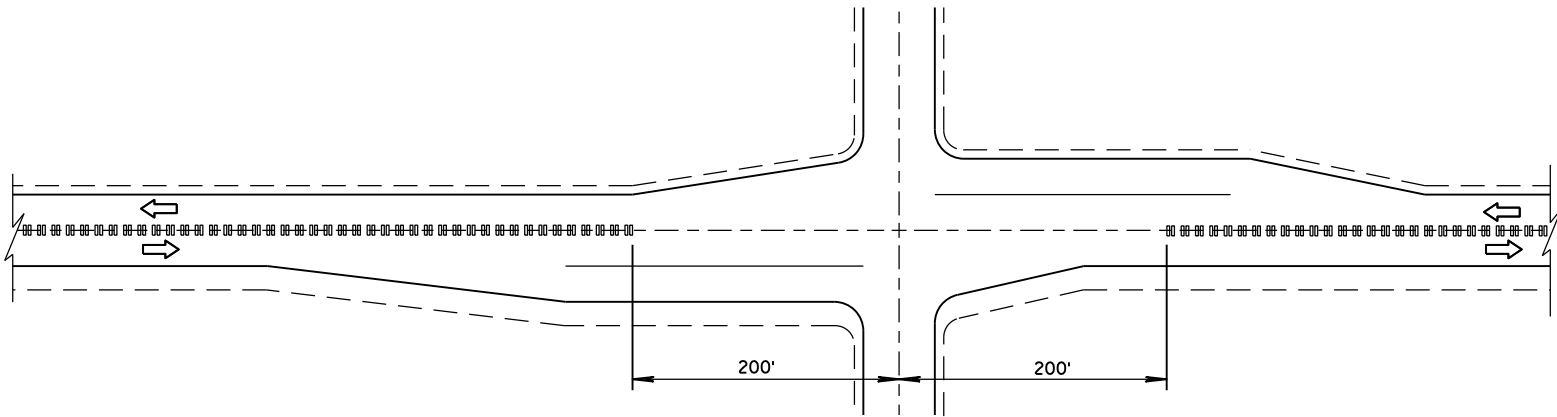
SECTION B-B
CROWNED ROADWAY



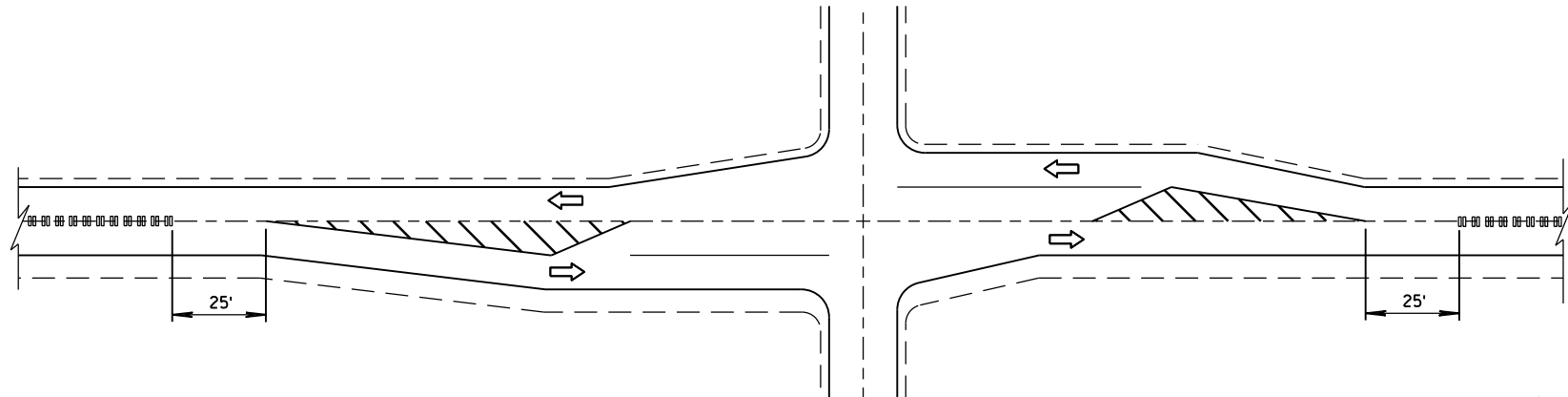
SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

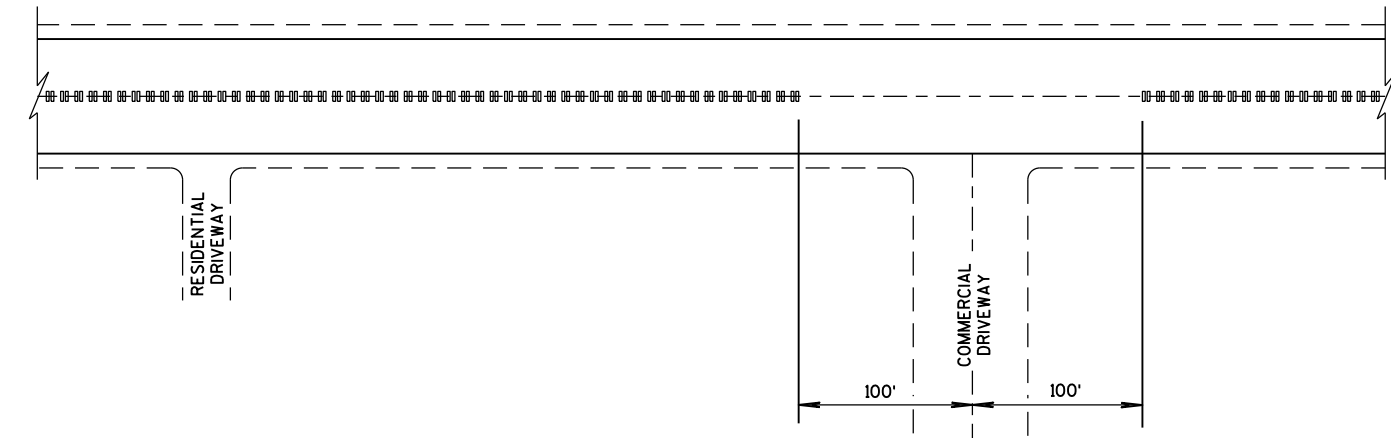
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTER LINE GROOVES AT INTERSECTIONS

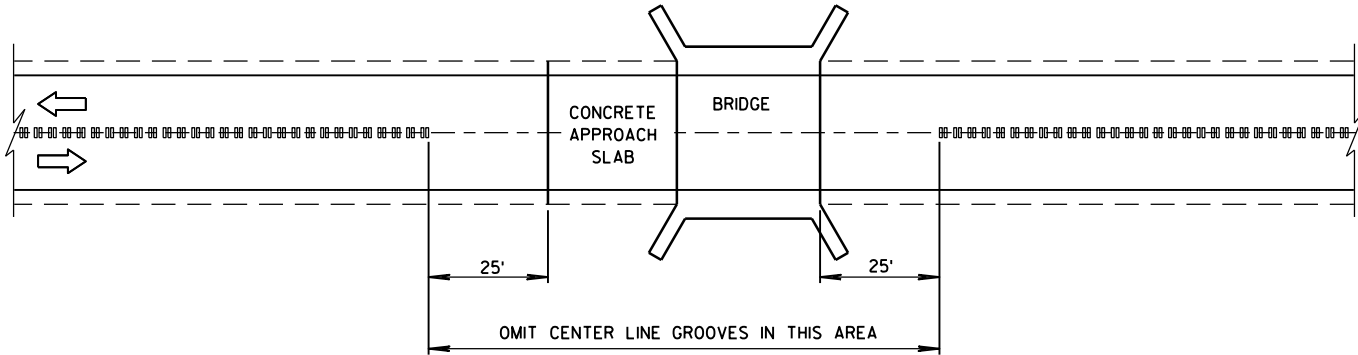


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

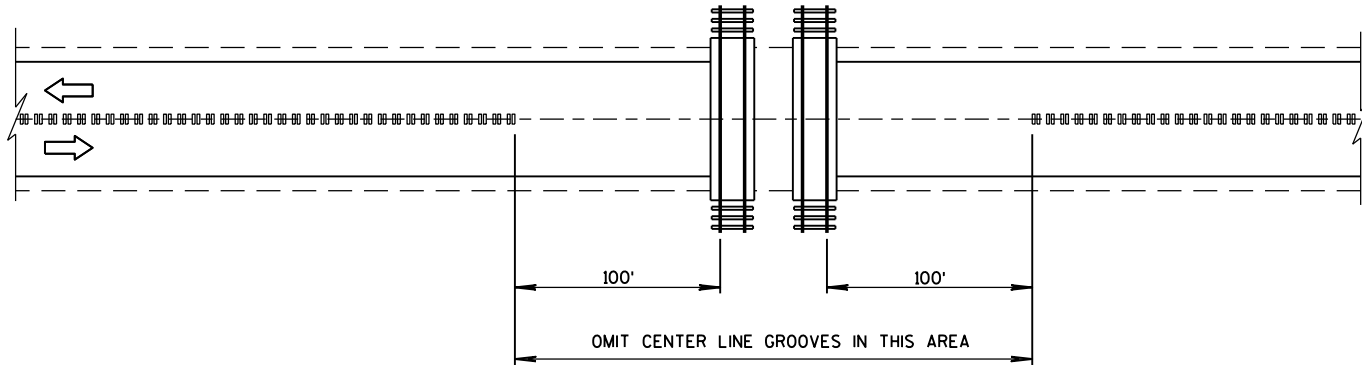


CENTER LINE GROOVES AT DRIVEWAYS^①

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

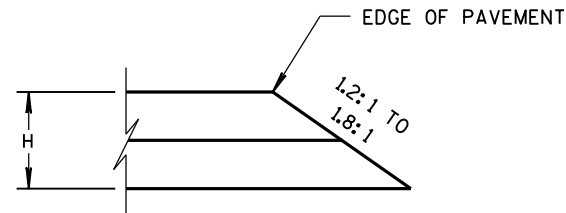


CENTER LINE GROOVES AT BRIDGES

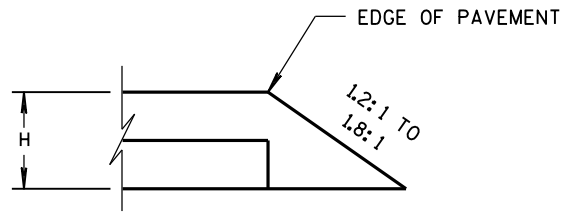


CENTER LINE GROOVES AT RAILROADS

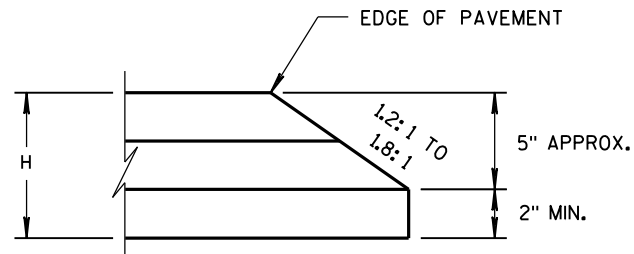
2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/15/2013 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	



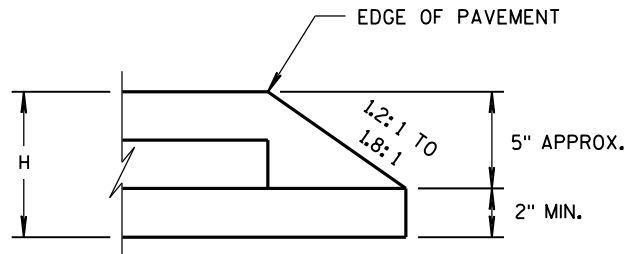
CONSTRUCTED WITH FINAL TWO LAYERS
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER
FOR H 5" OR LESS

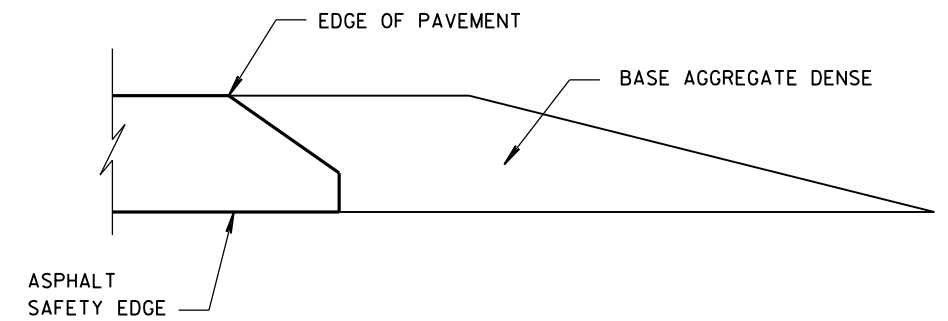


CONSTRUCTED WITH FINAL TWO LAYERS
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER
FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE_{SM}

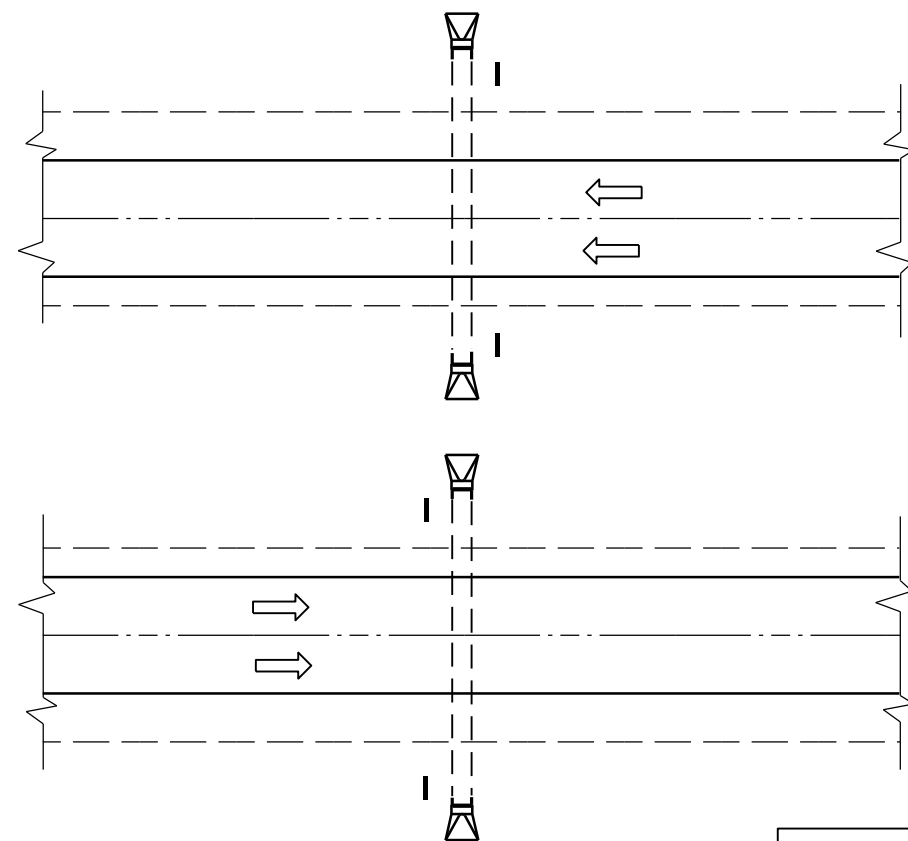
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

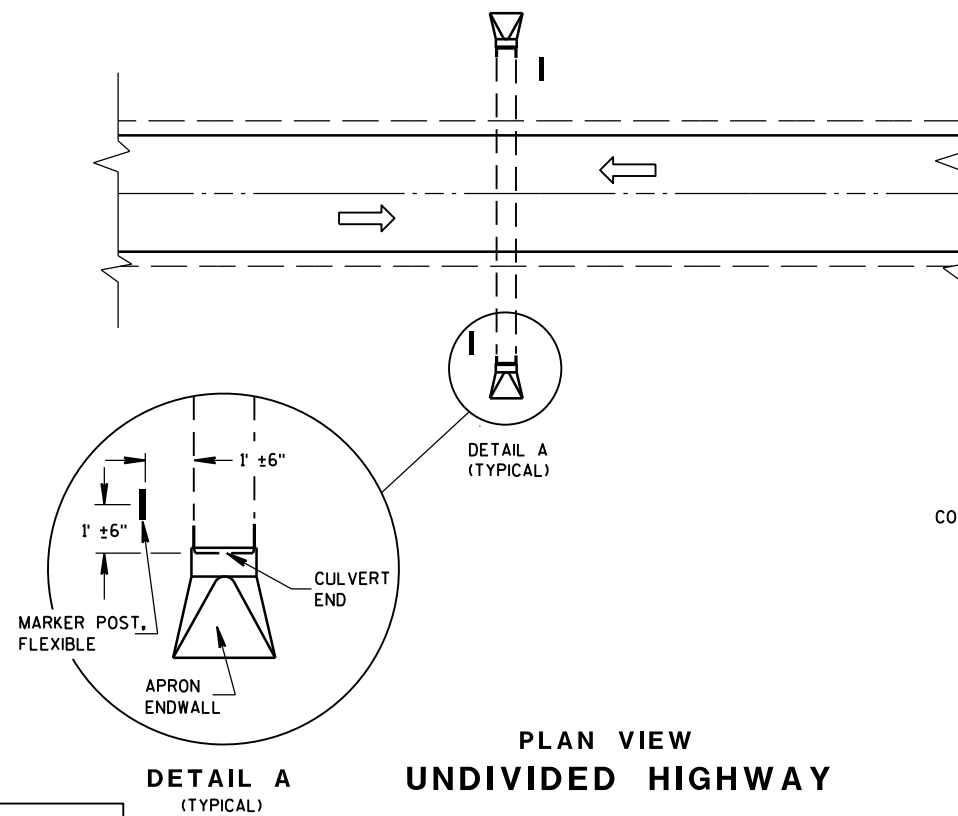
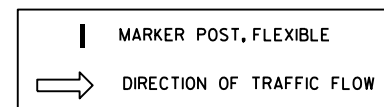
11/30/2012
DATE

FHWA

/s/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER



PLAN VIEW
DIVIDED HIGHWAY

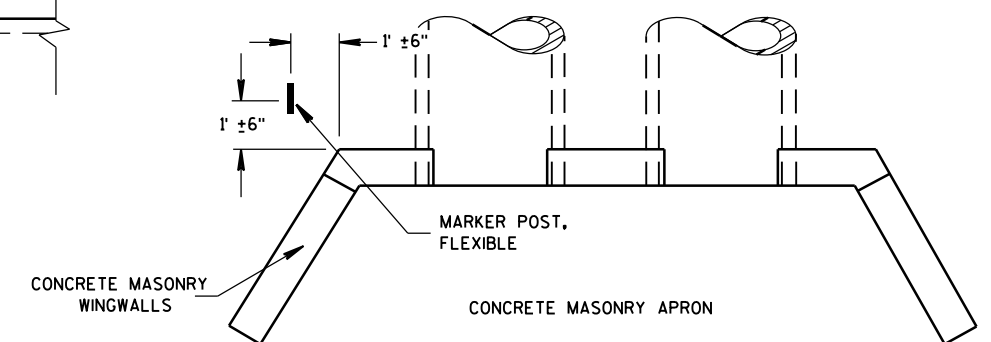


PLAN VIEW
UNDIVIDED HIGHWAY

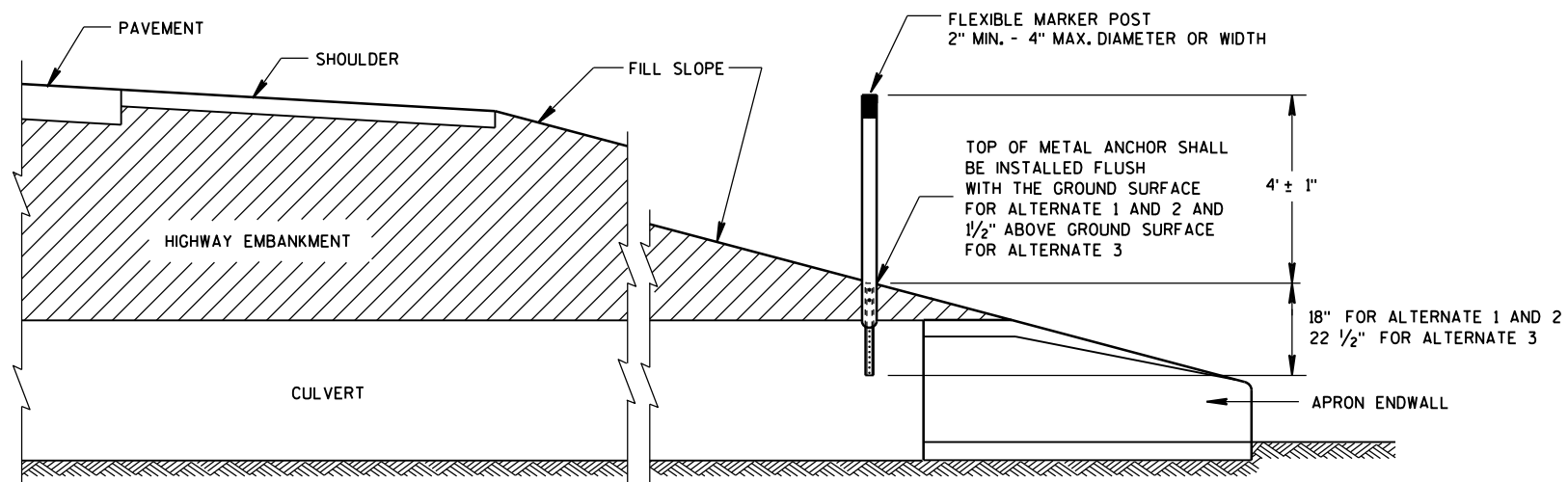
FLEXIBLE MARKER POST LOCATION

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.



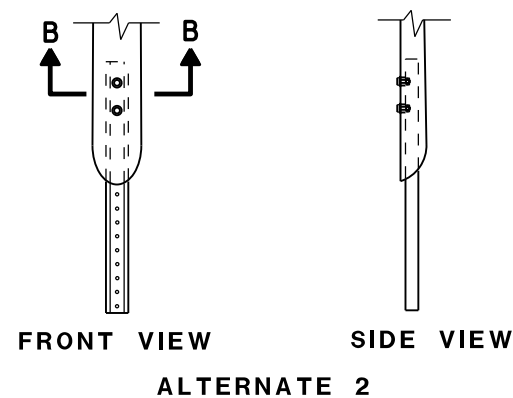
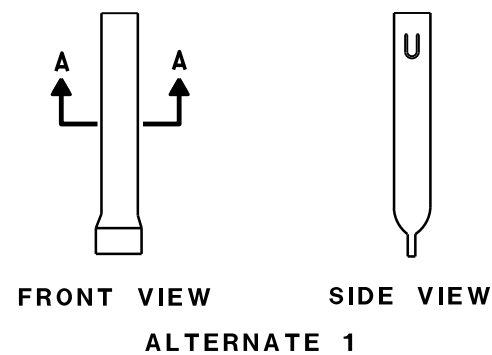
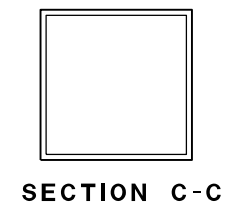
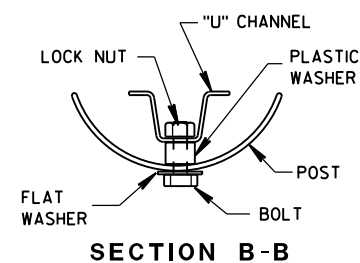
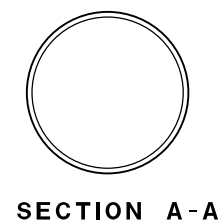
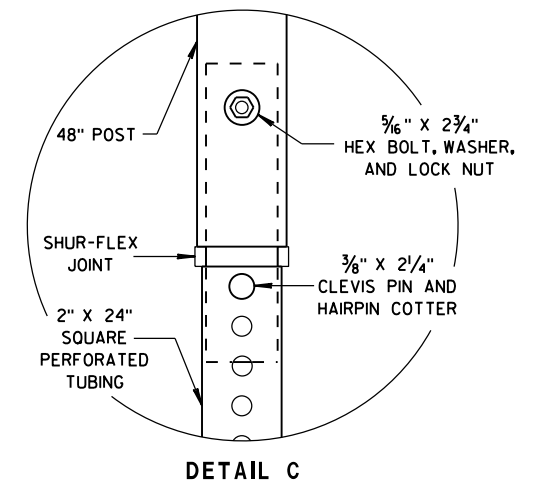
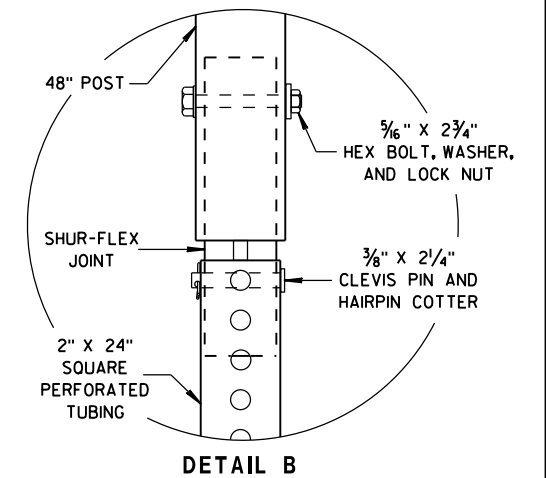
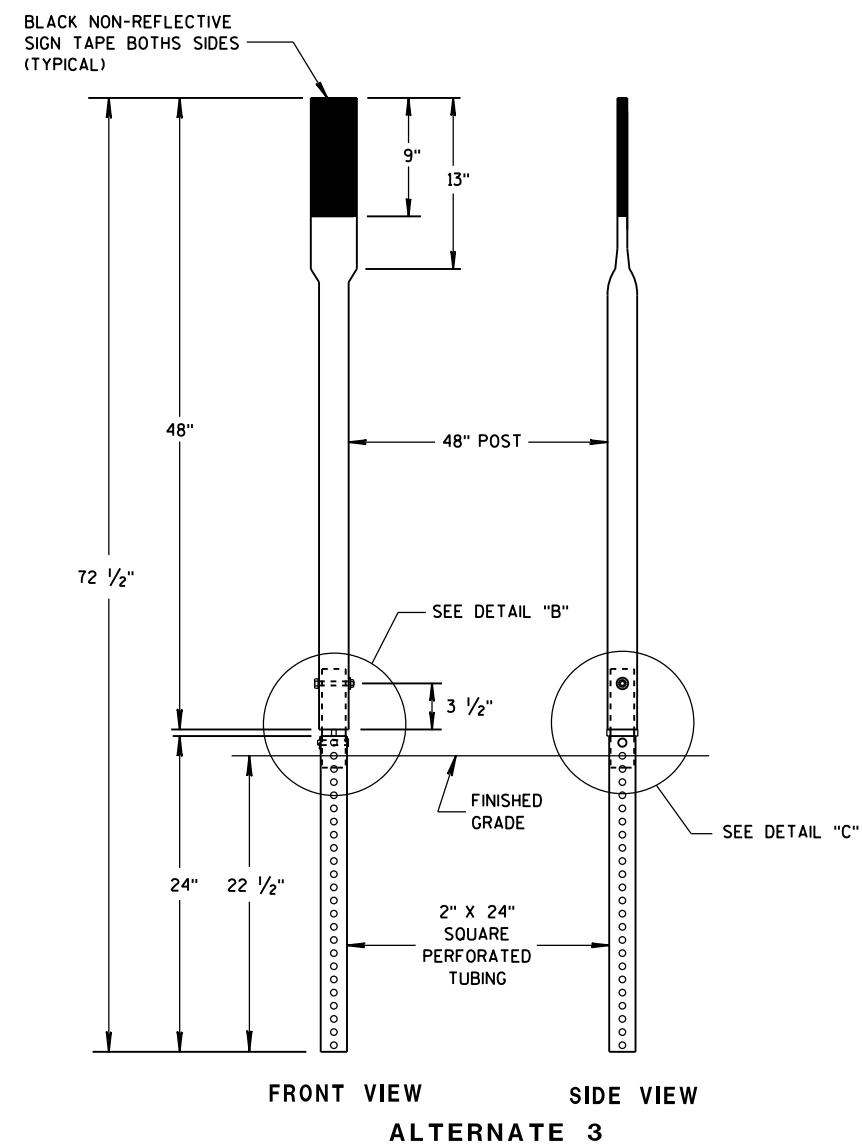
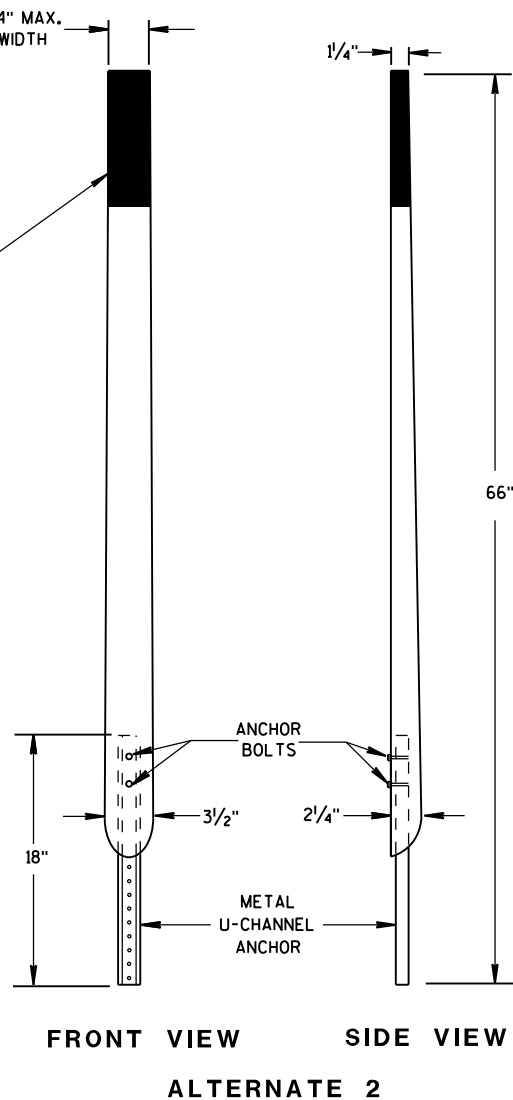
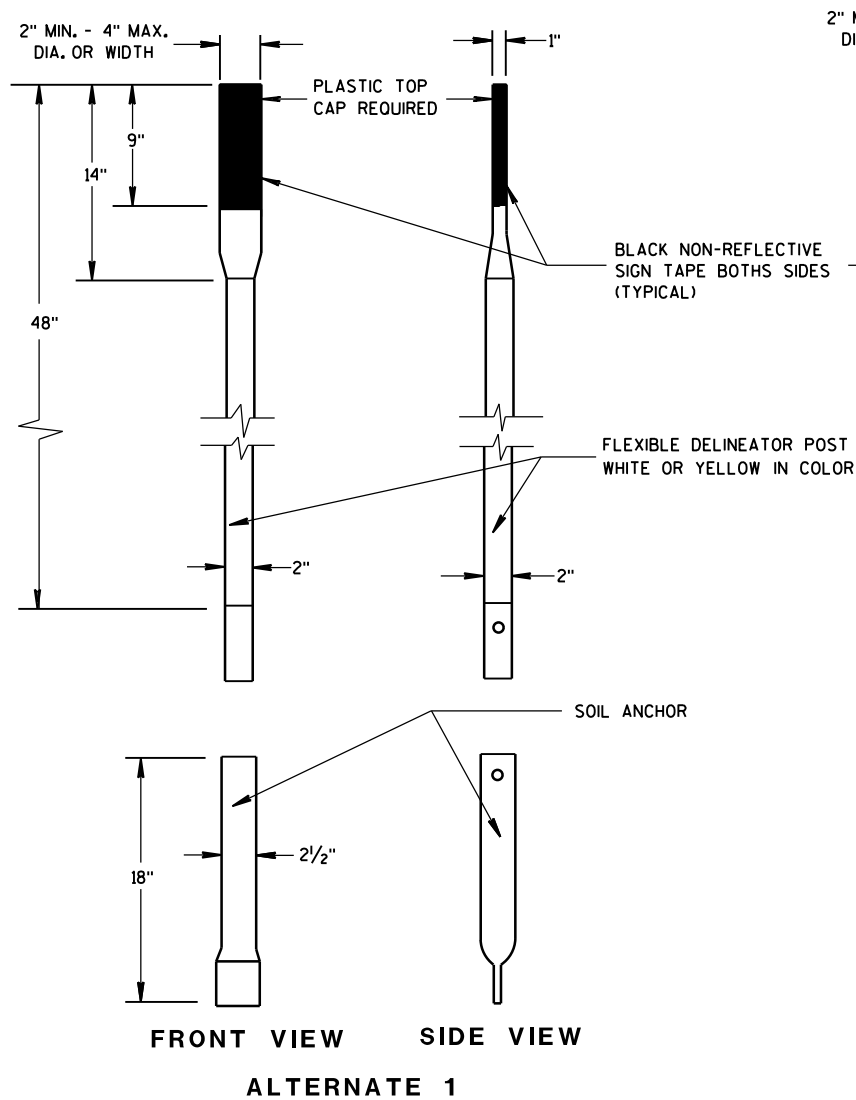
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



CROSS SECTION
FLEXIBLE MARKER POST

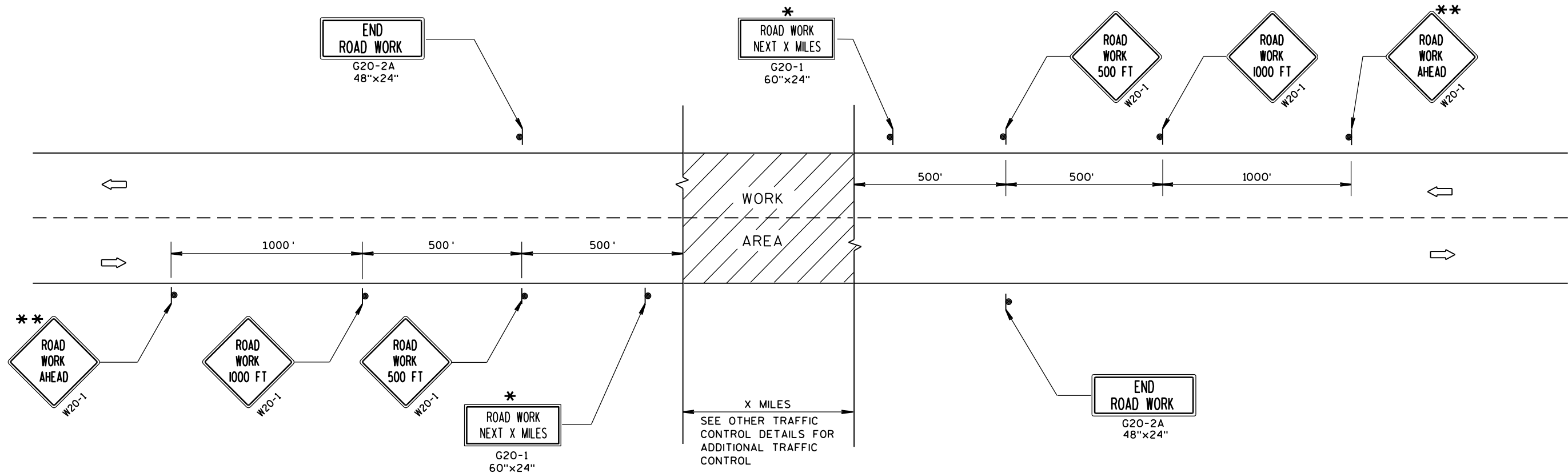
FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST FOR CULVERT END	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 10/1/2012 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
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 MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

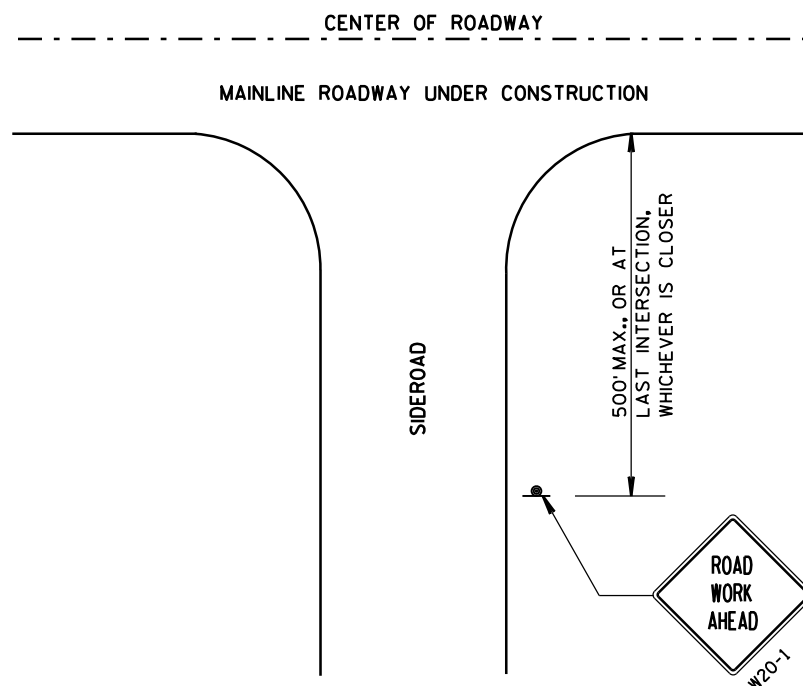
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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.

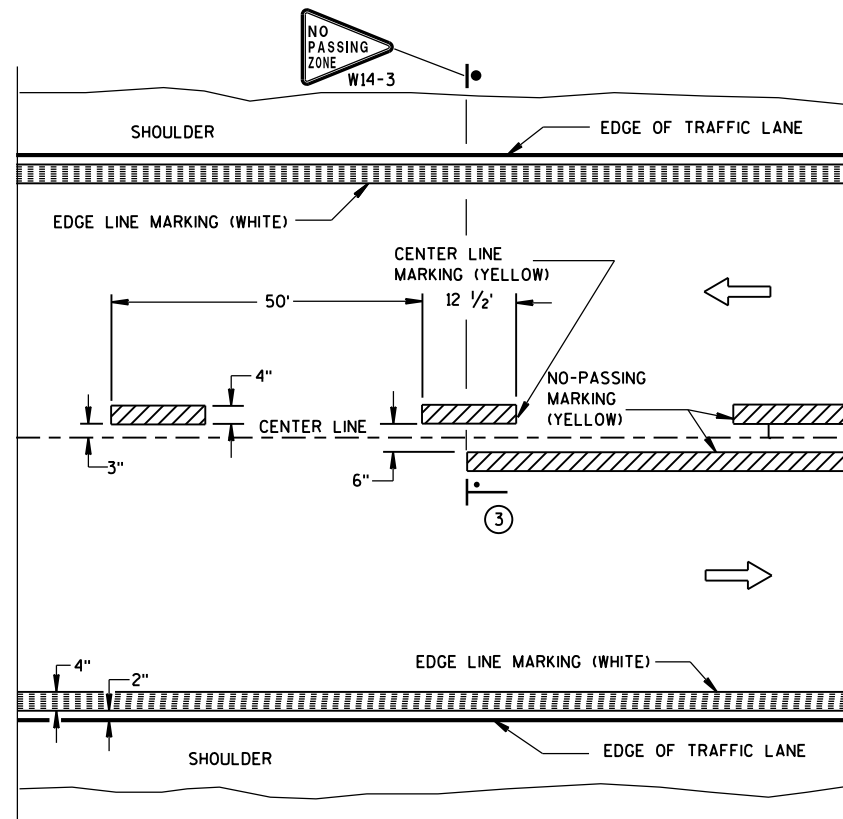
** PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



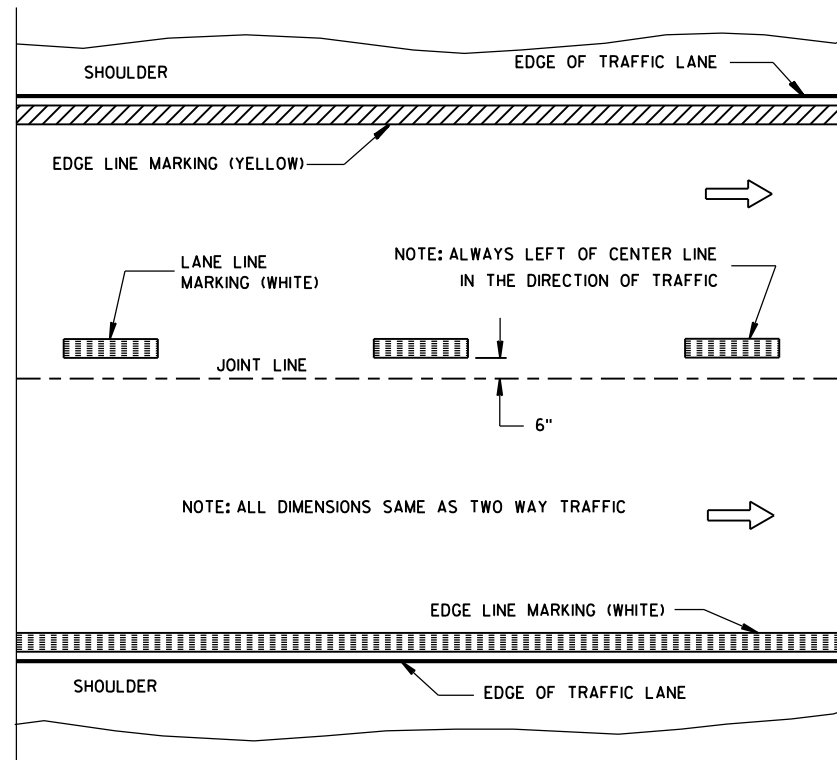
LEGEND

- 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 8/2013 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

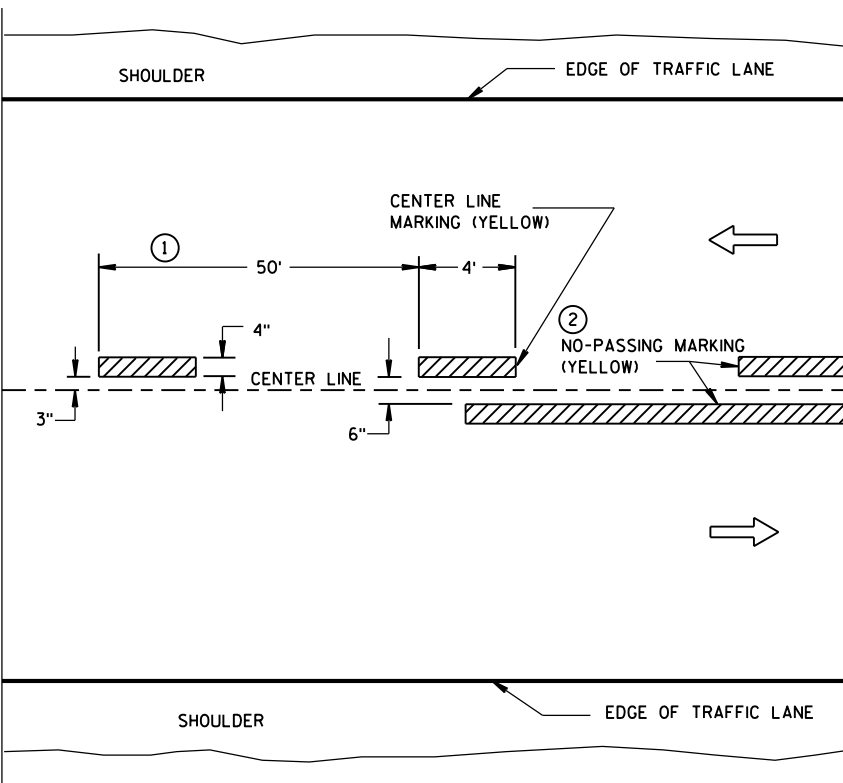


TWO WAY TRAFFIC

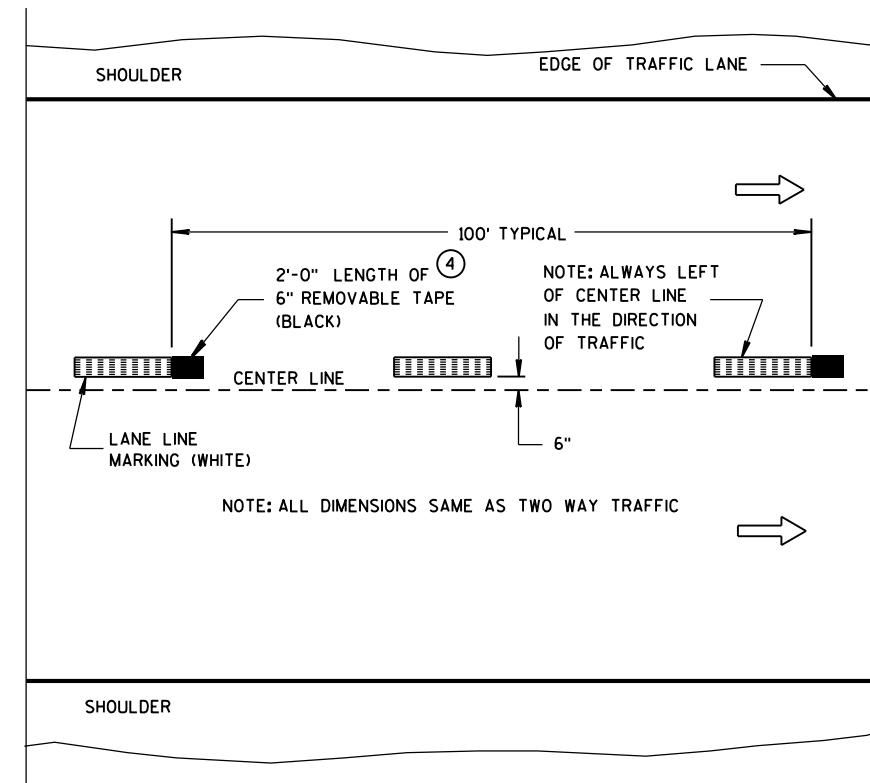


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

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

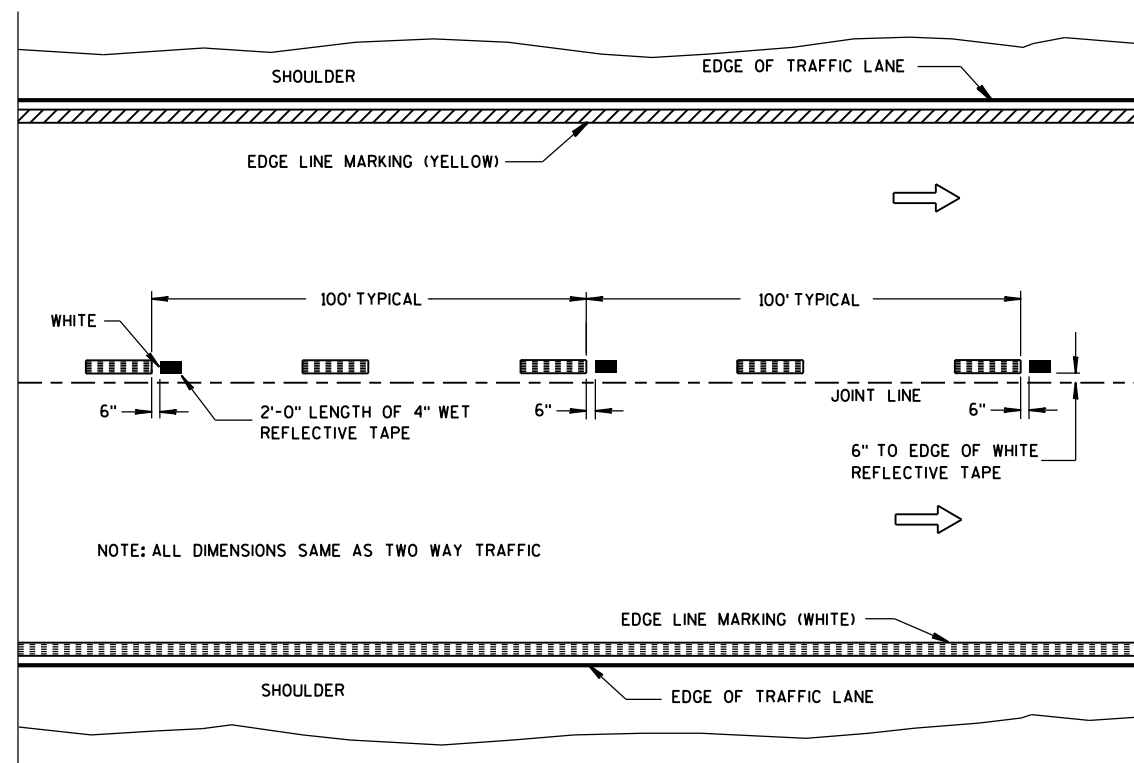
GENERAL NOTES

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

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

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



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

LEGEND

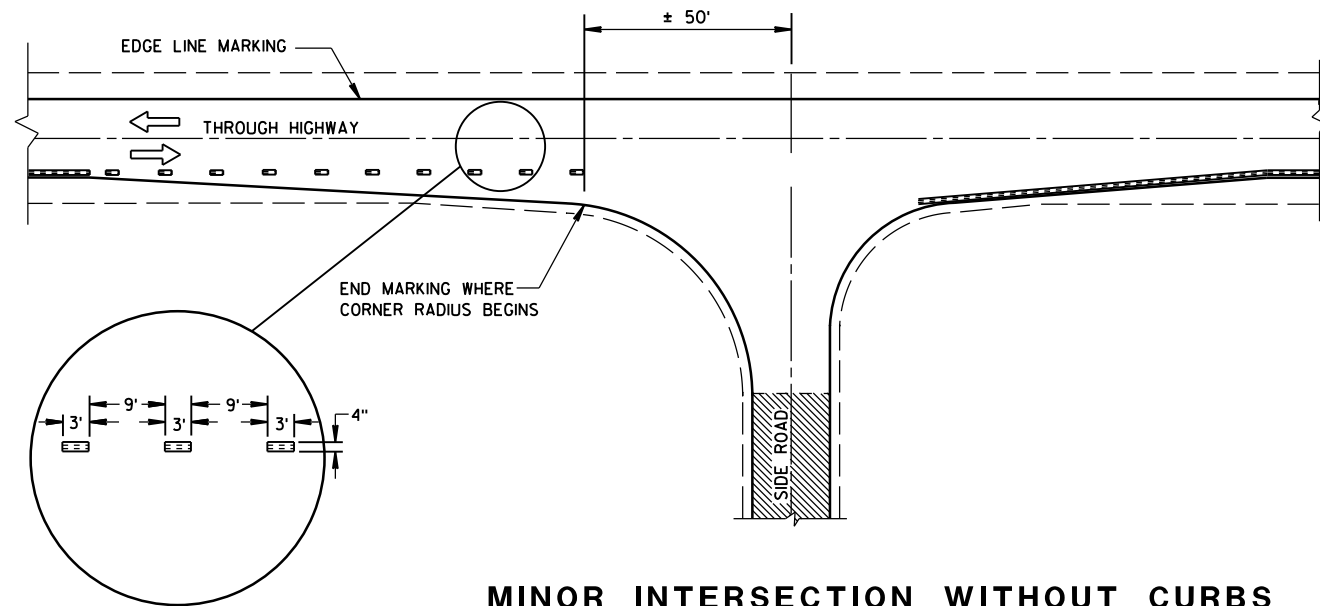
- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5-13-2013
DATE
FHWA

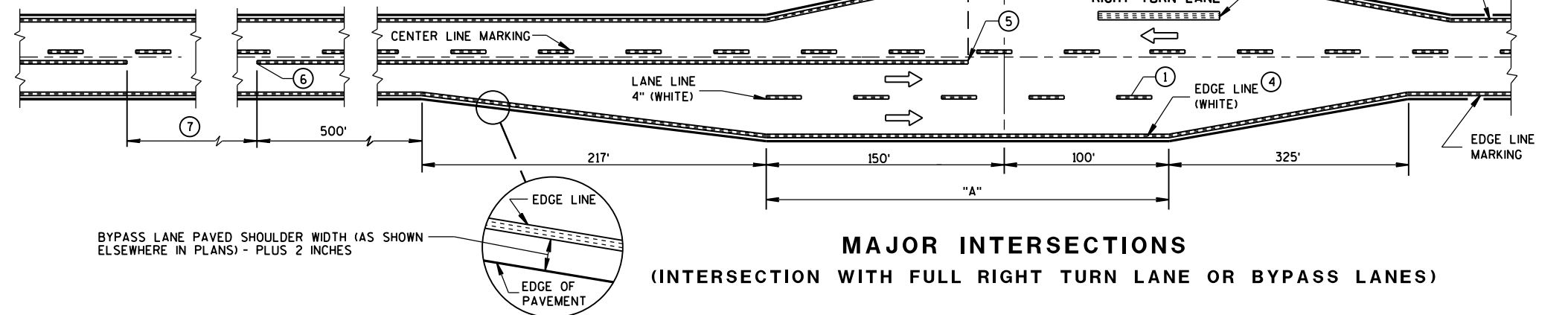
/S/ Travis Feltes
STATE TRAFFIC ENGINEER



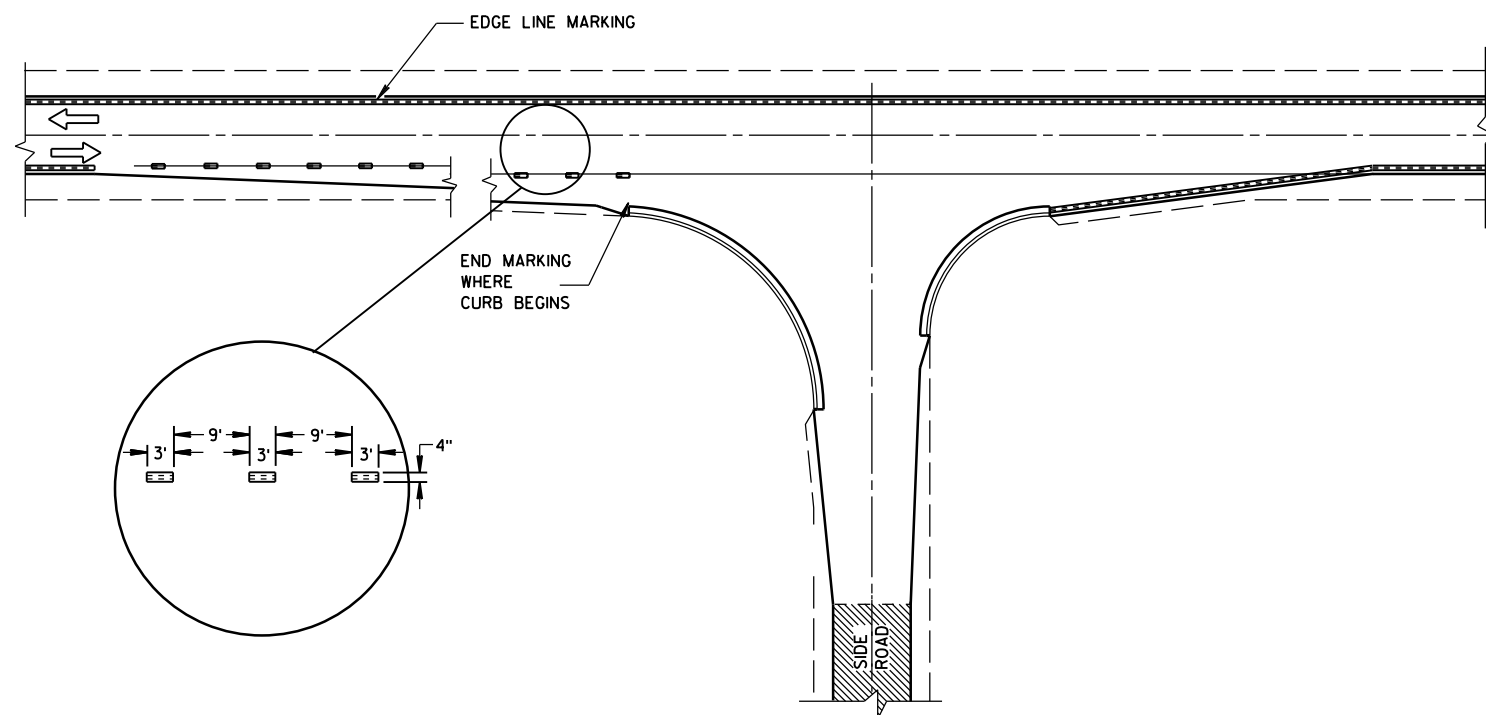
MINOR INTERSECTION WITHOUT CURBS

⑦

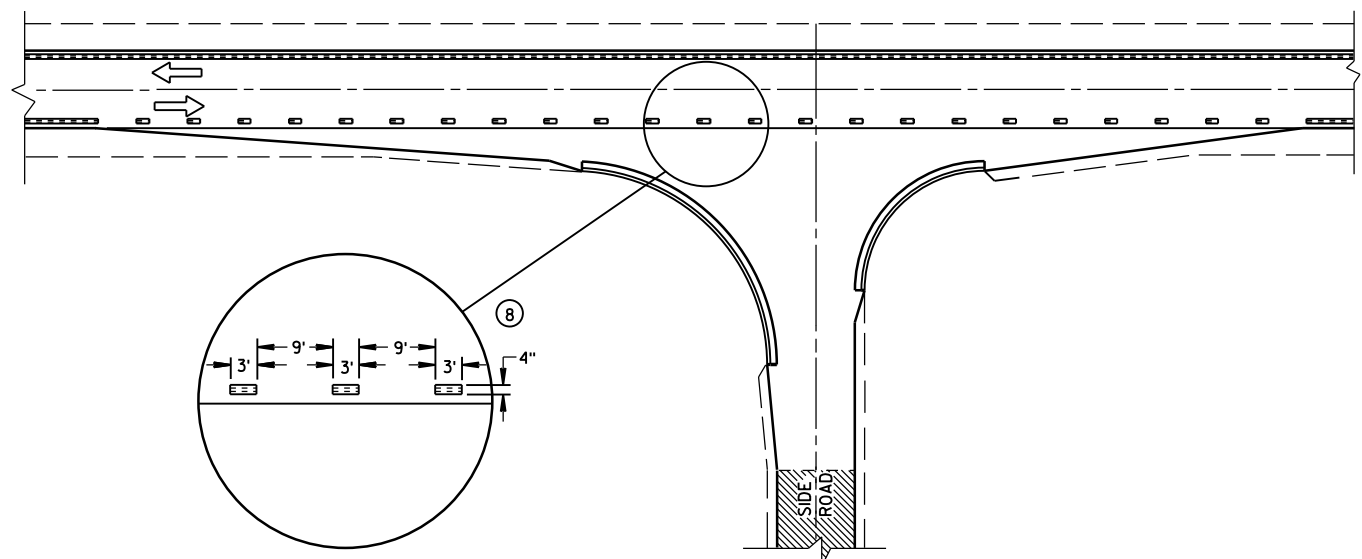
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



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



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



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





GENERAL NOTES

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

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

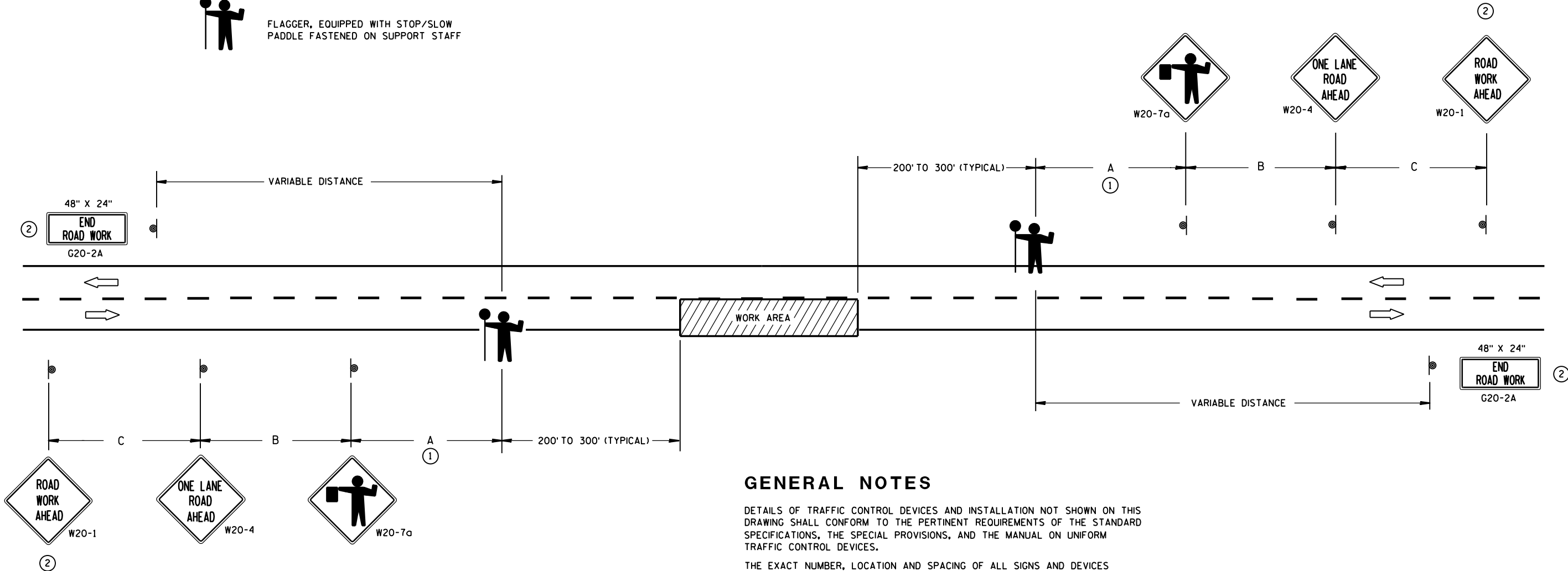
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

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.

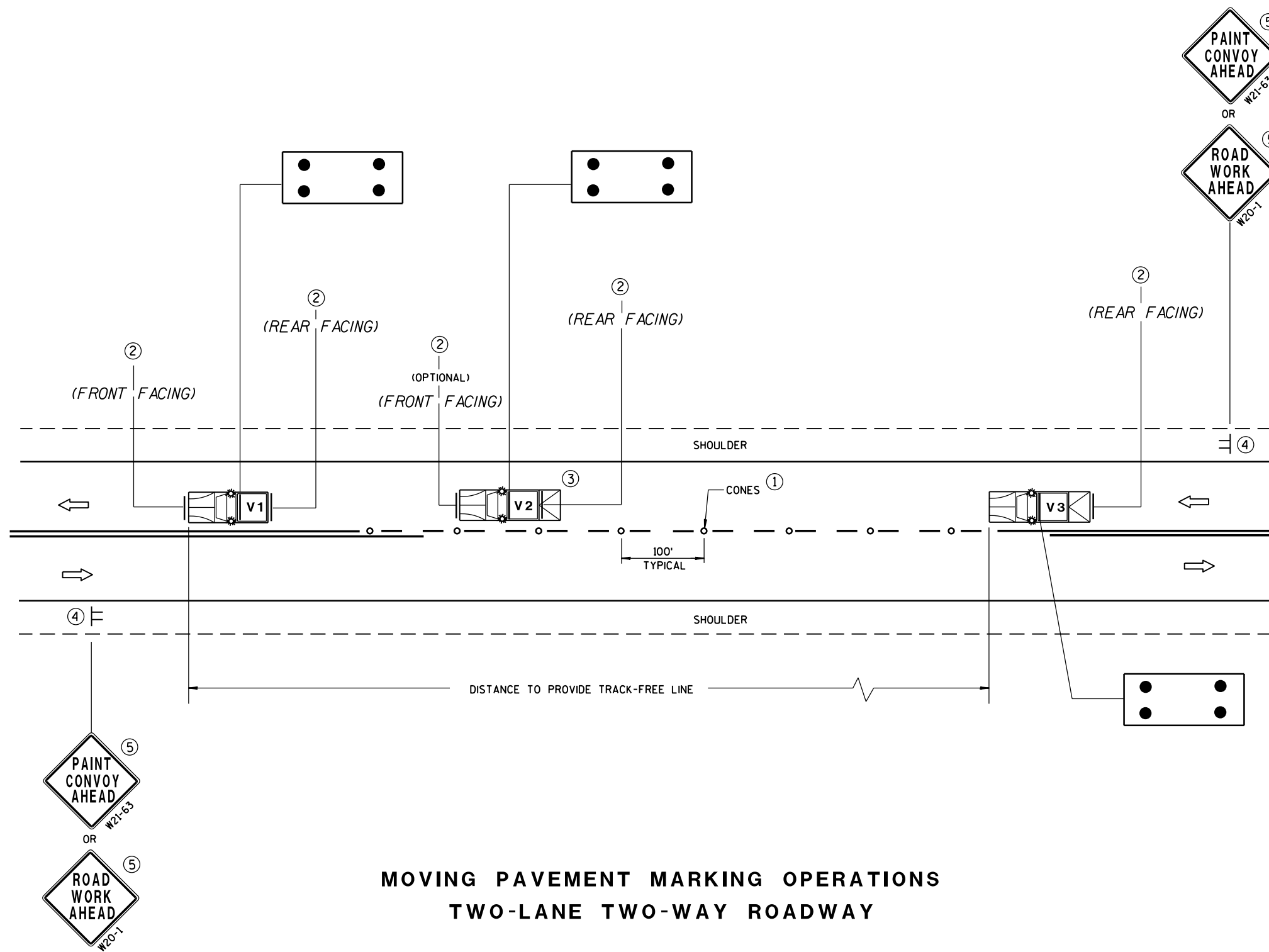
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- 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 ENGINEER OF DESIGN
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.

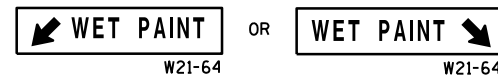
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

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

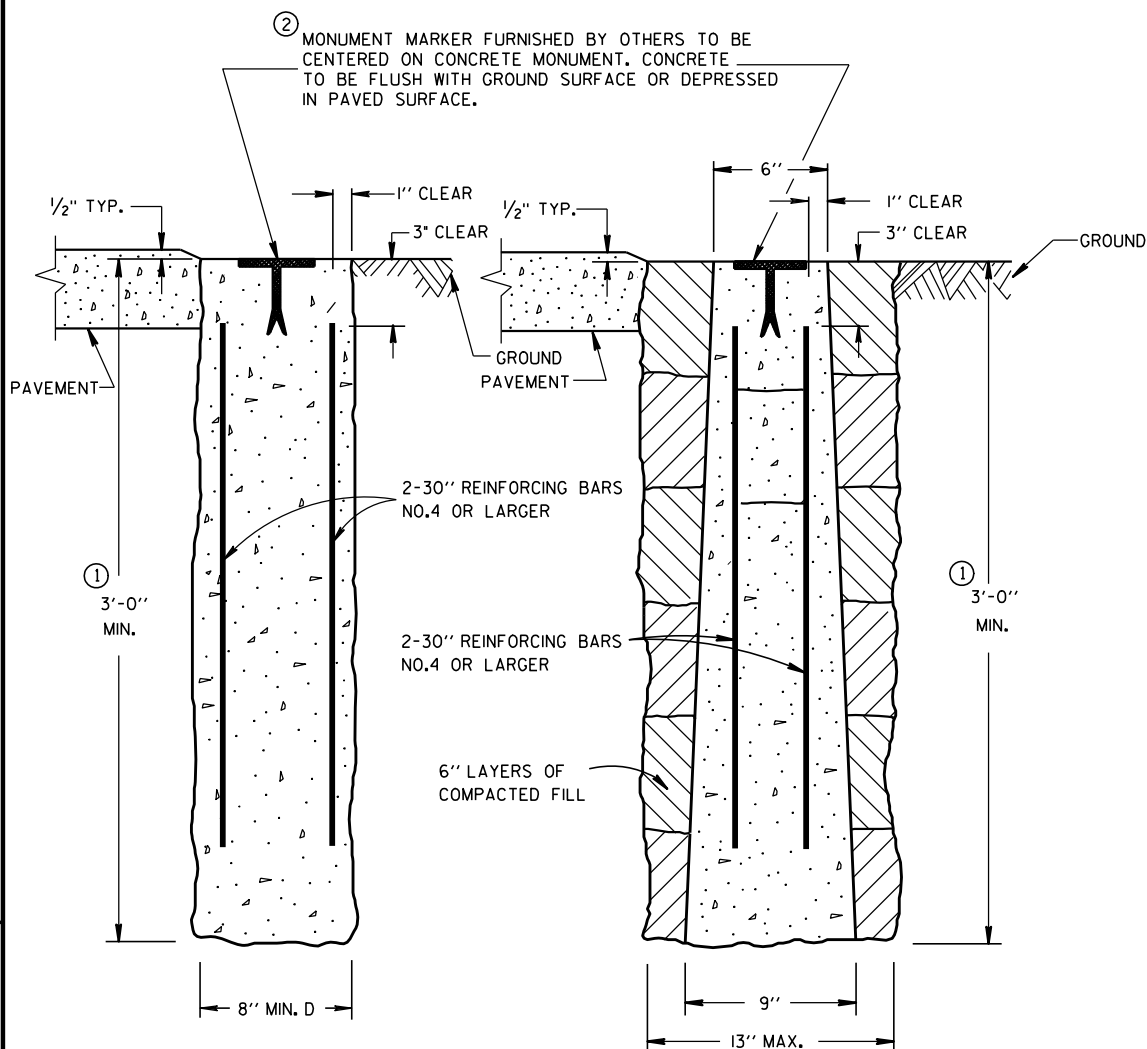
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/3/2013
DATE

FHWA

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

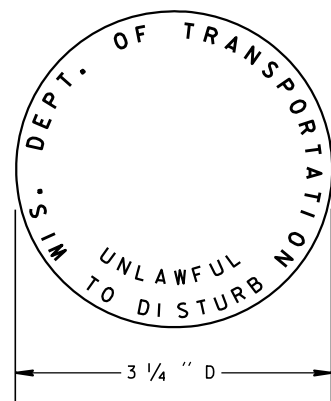


CAST-IN-PLACE

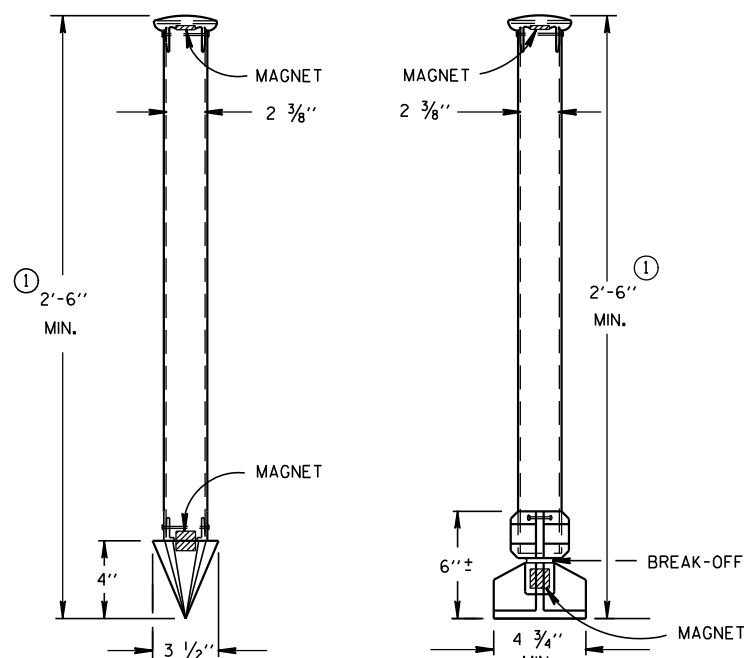
PRECAST

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.

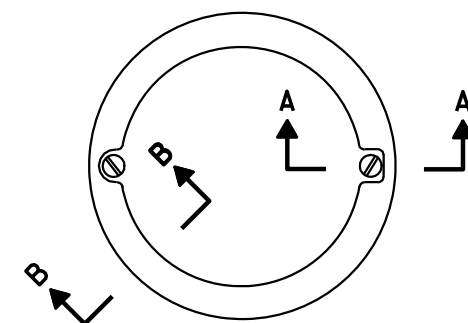
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

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.

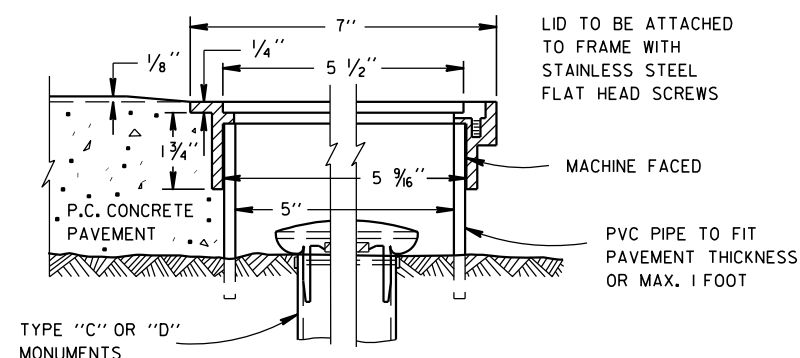
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

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

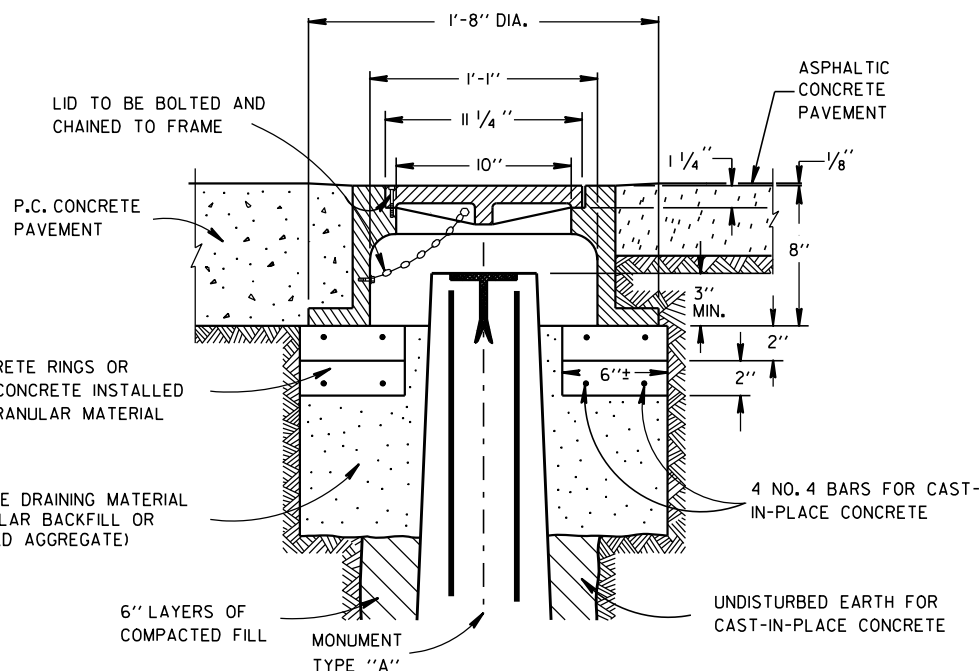
② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



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

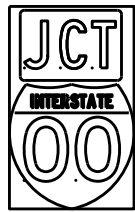
9/22/1999

DATE

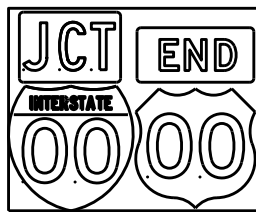
FHWA

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

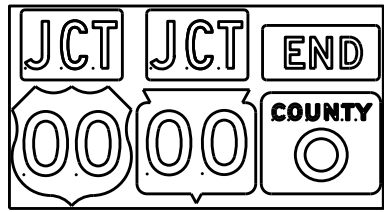
TYPICAL ASSEMBLIES



J1-1



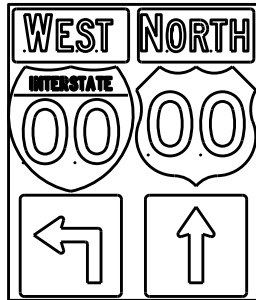
J1-2



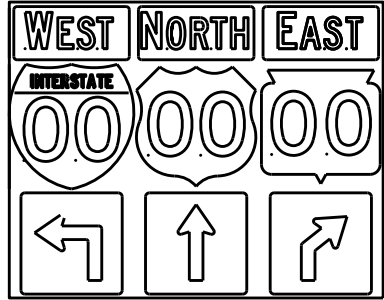
J1-3



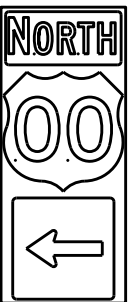
J2-1



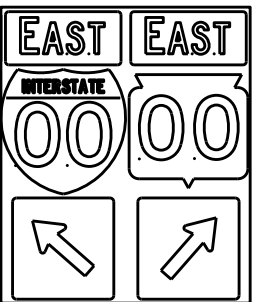
J2-2



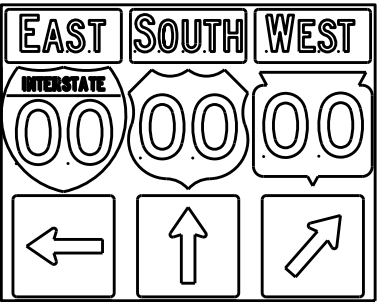
J2-3



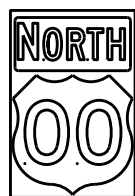
J3-1



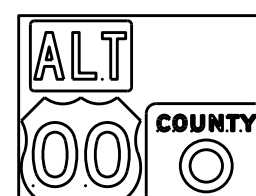
J3-2



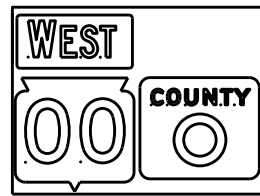
J3-3



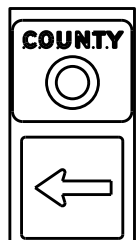
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

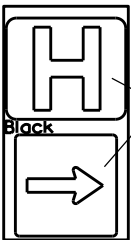


J22-1



JV

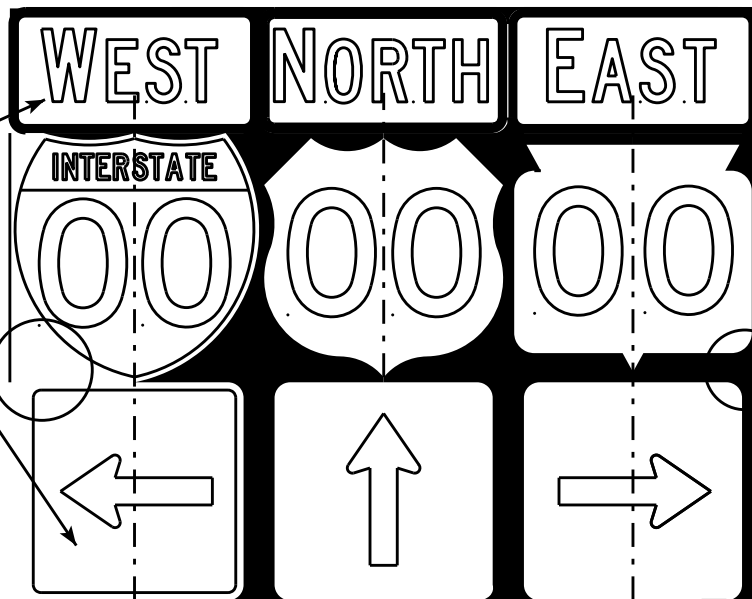
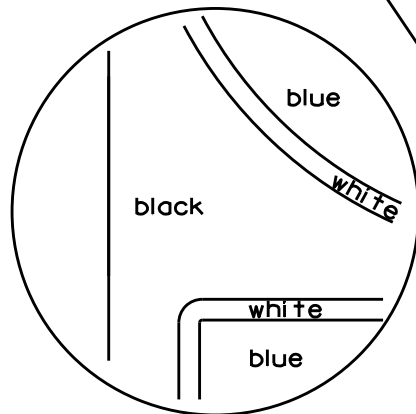
(Typical Vertical J-Assembly
See Note 10 and 11)



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 PLATE NO. A2-1S.8

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.

PROJECT NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN

PLOT DATE : 06-FEB-2014 14:10

PLOT BY : mscs.ja

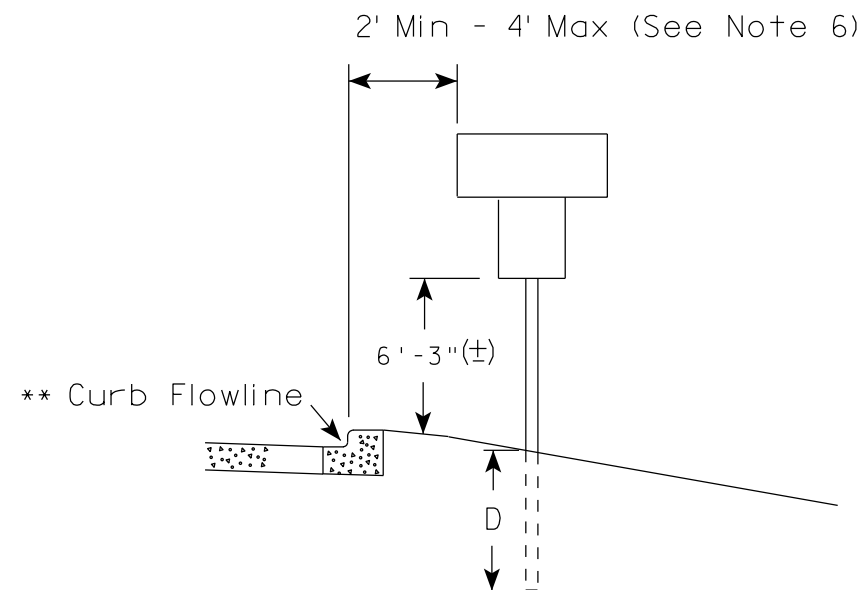
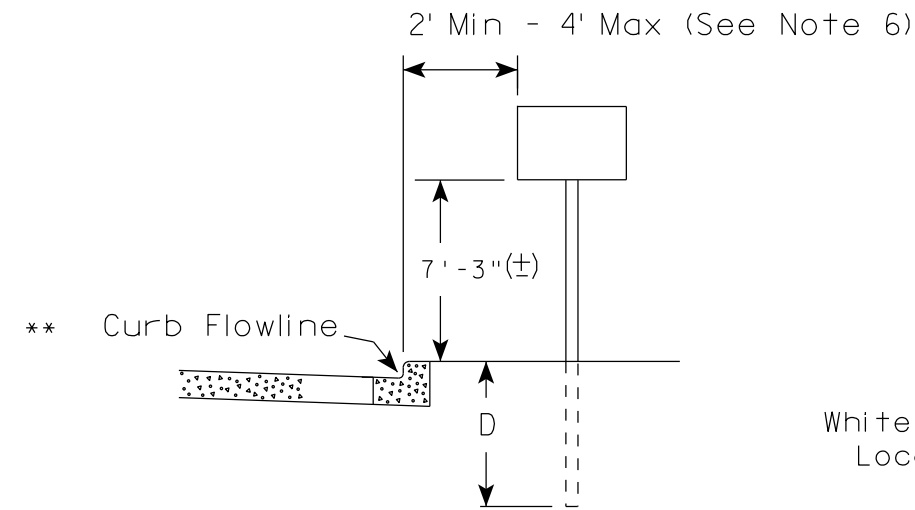
PLOT NAME :

SHEET NO:

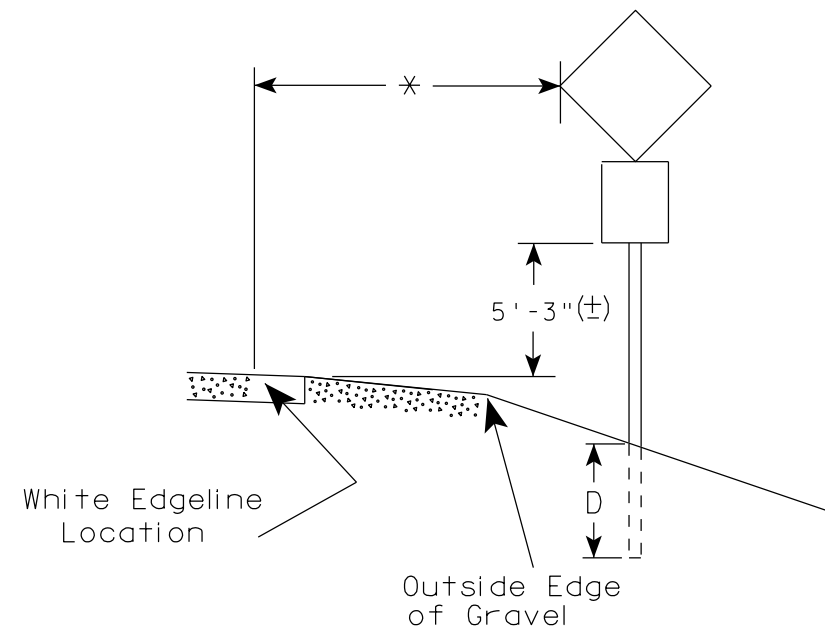
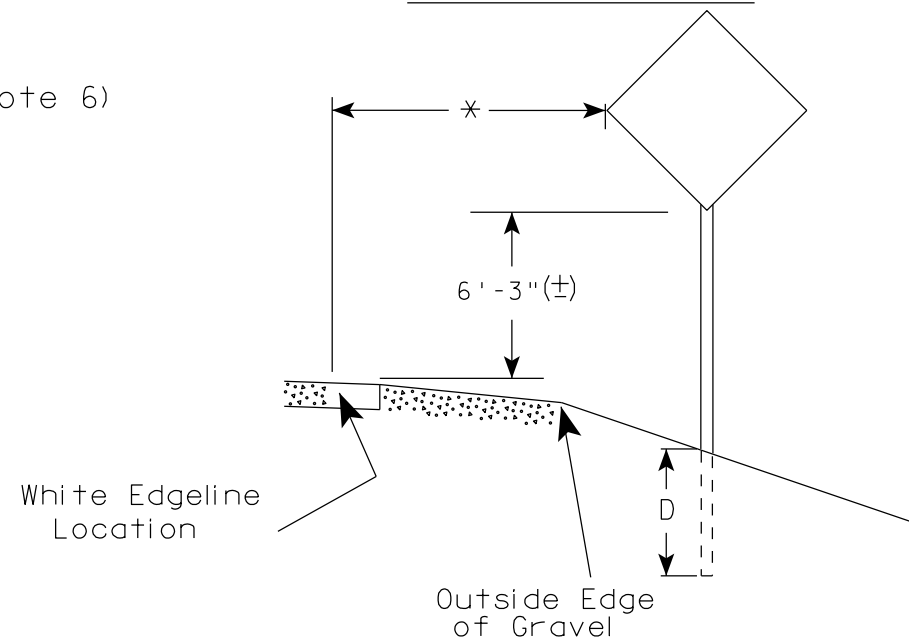
E

WISDOT/CADDs SHEET 42

URBAN AREA



RURAL AREA (See Note 2)



GENERAL NOTES

1. Signs wider than 4 feet, 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" (±).

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 11/12/14

PLATE NO. A4-3.19

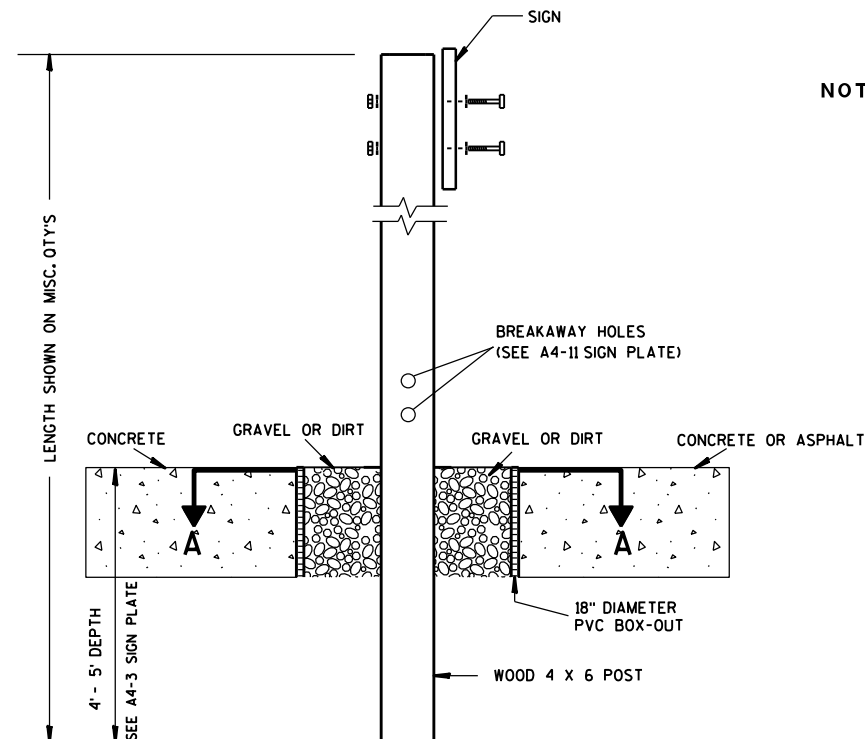
PROJECT NO:

HWY:

COUNTY:

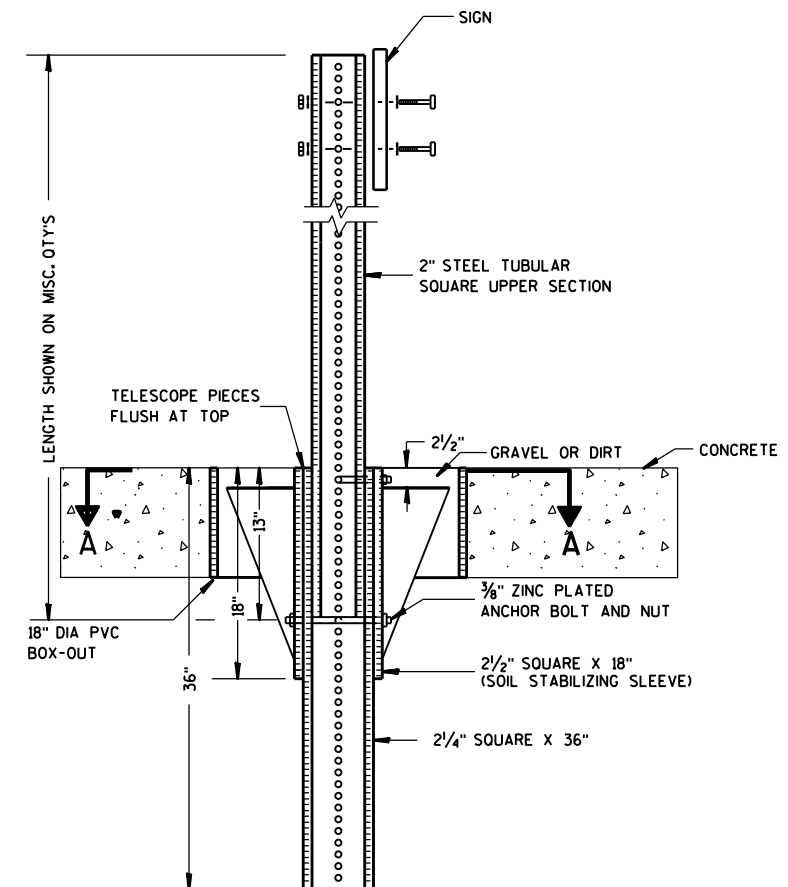
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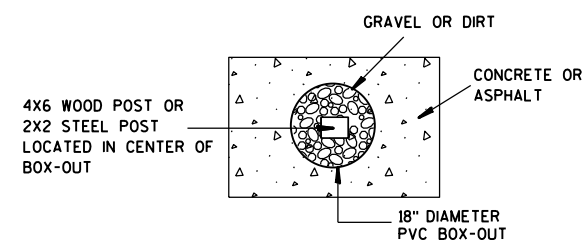


ELEVATION VIEW
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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

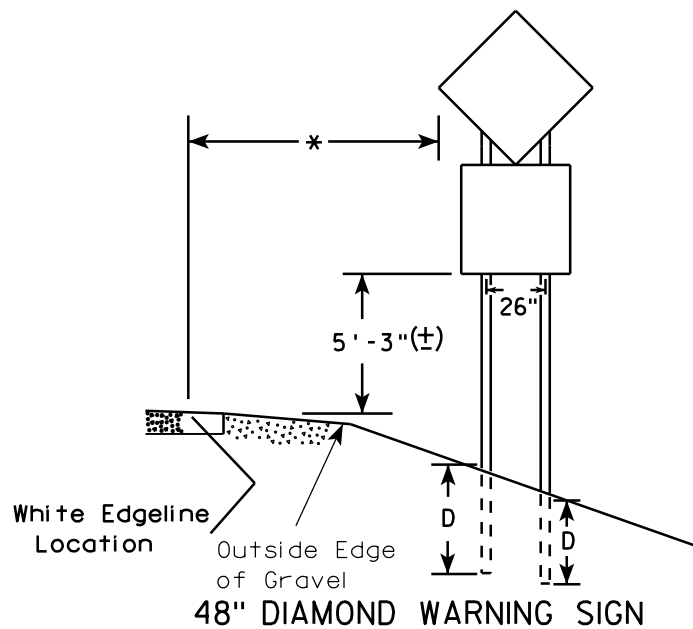
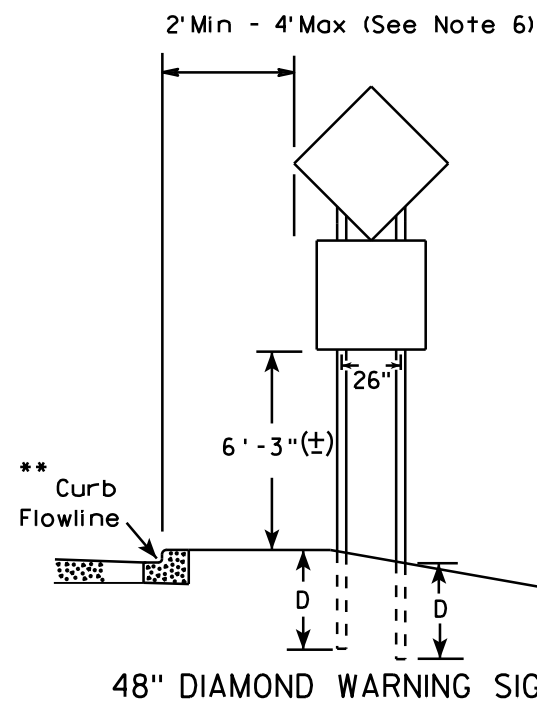
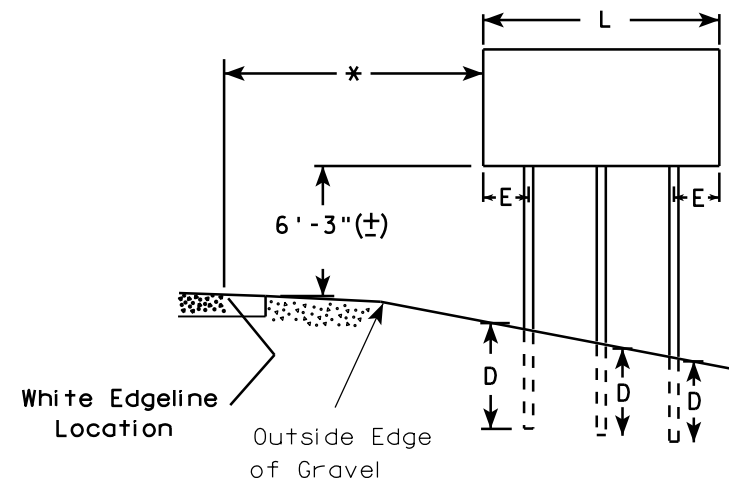
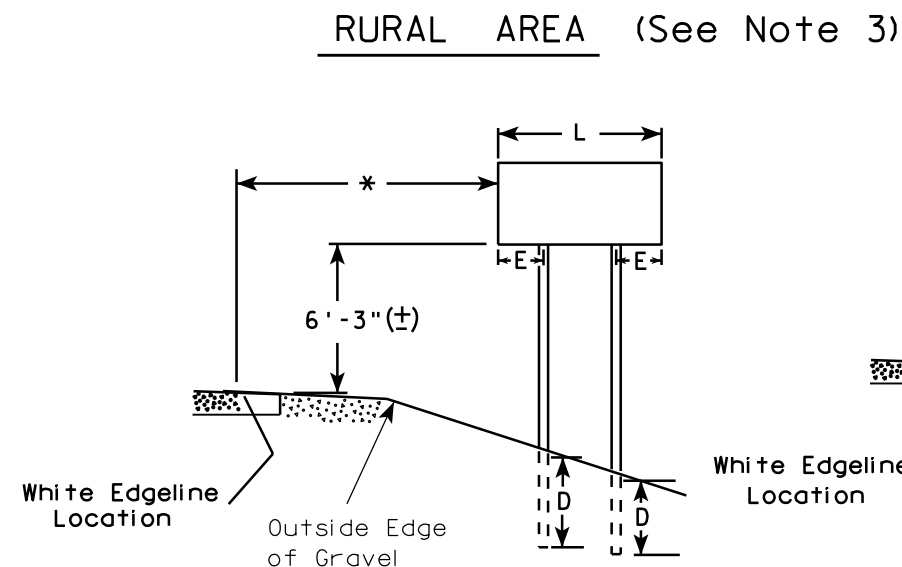
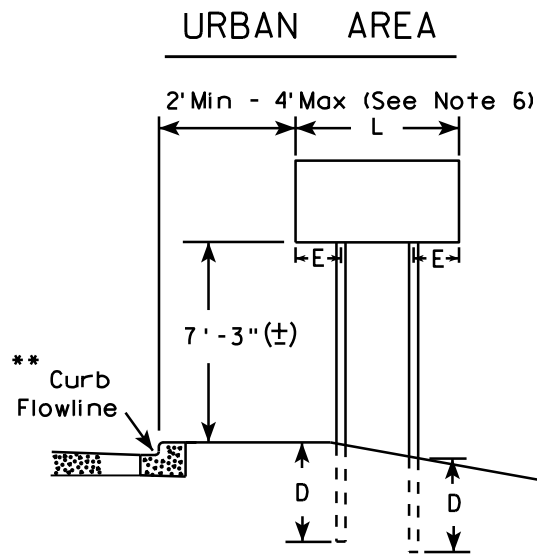
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



- 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 or 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

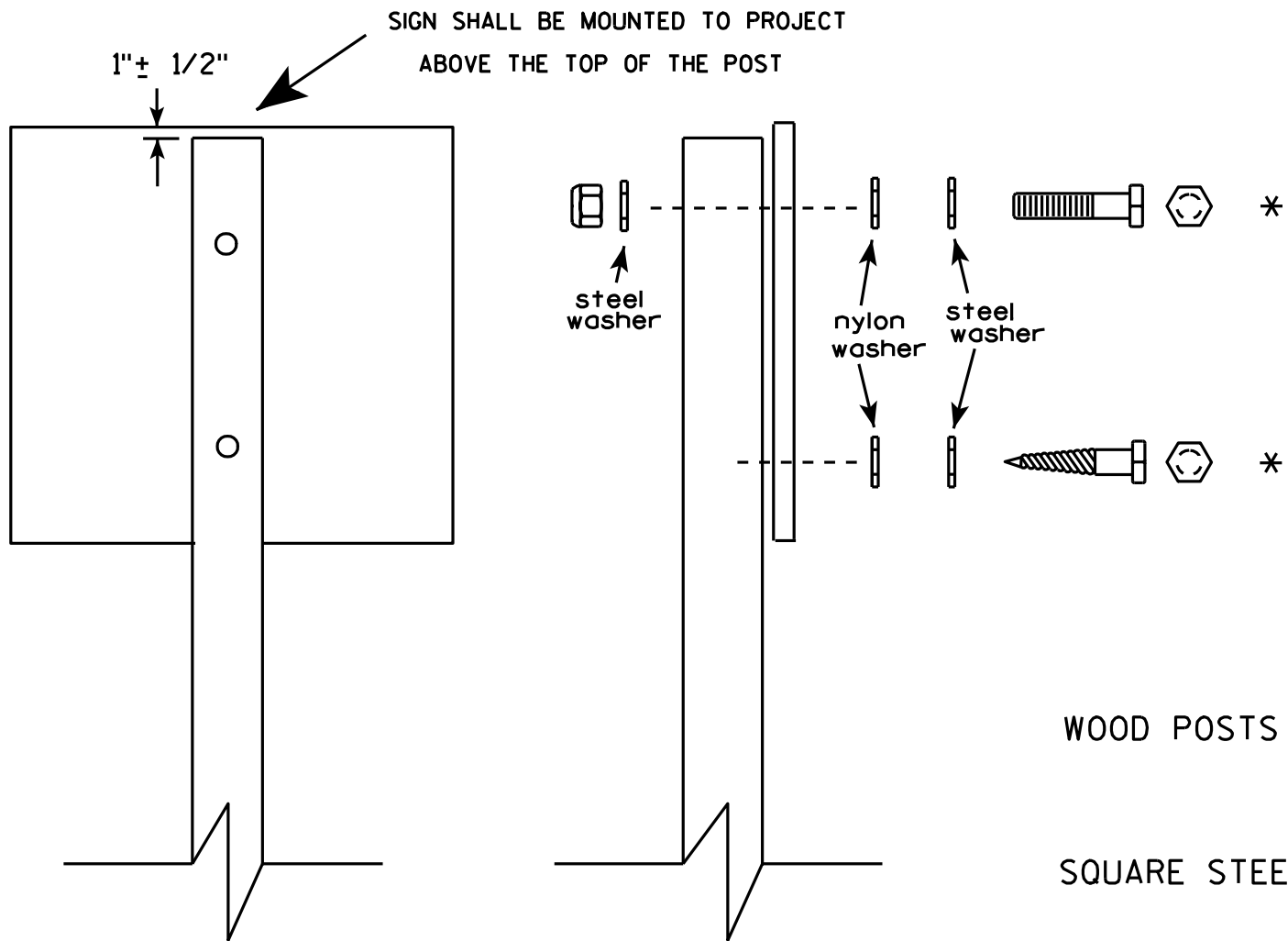
Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/14 PLATE NO. A4-4.13

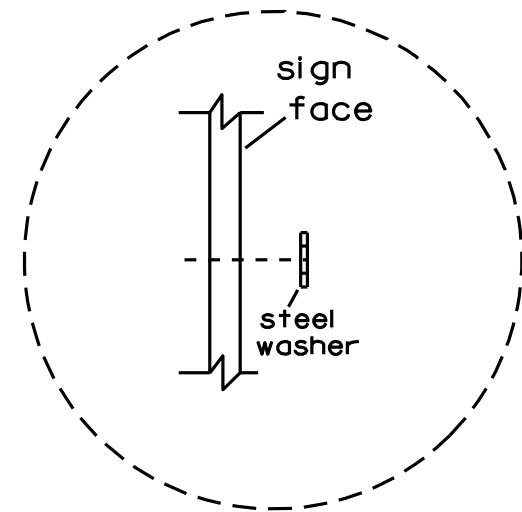


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

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

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

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

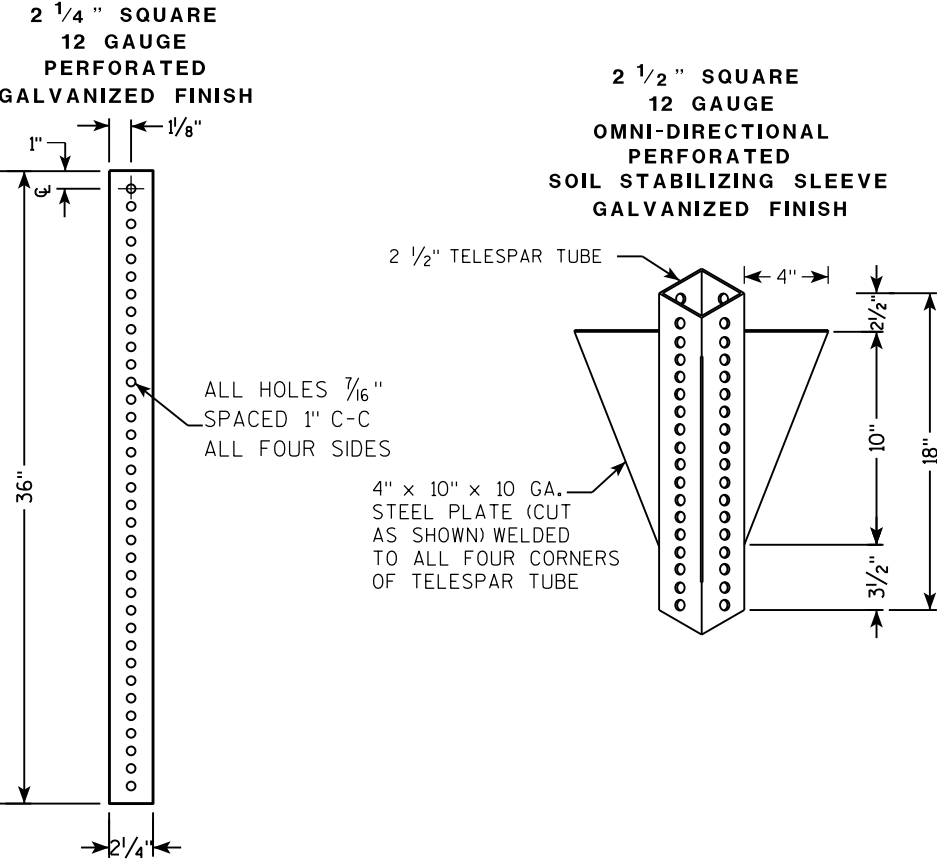


Washer Placement when Sign Has Other Than Type H or Type F Face

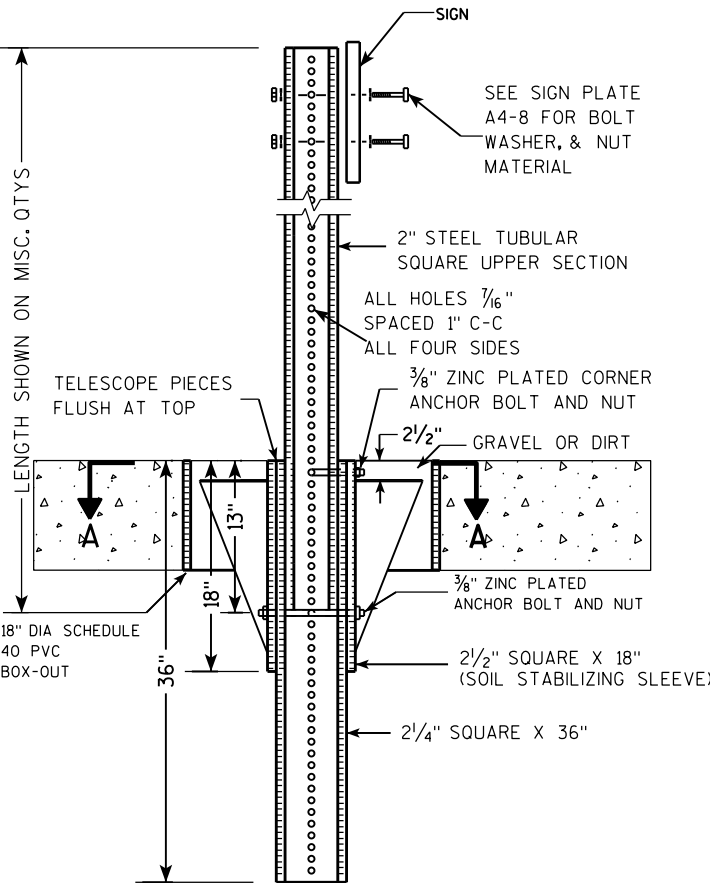
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require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

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

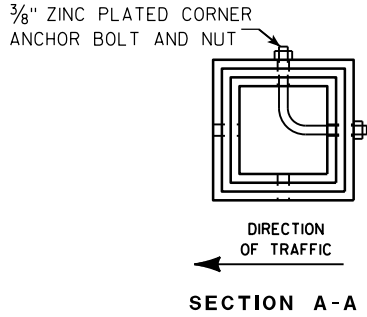
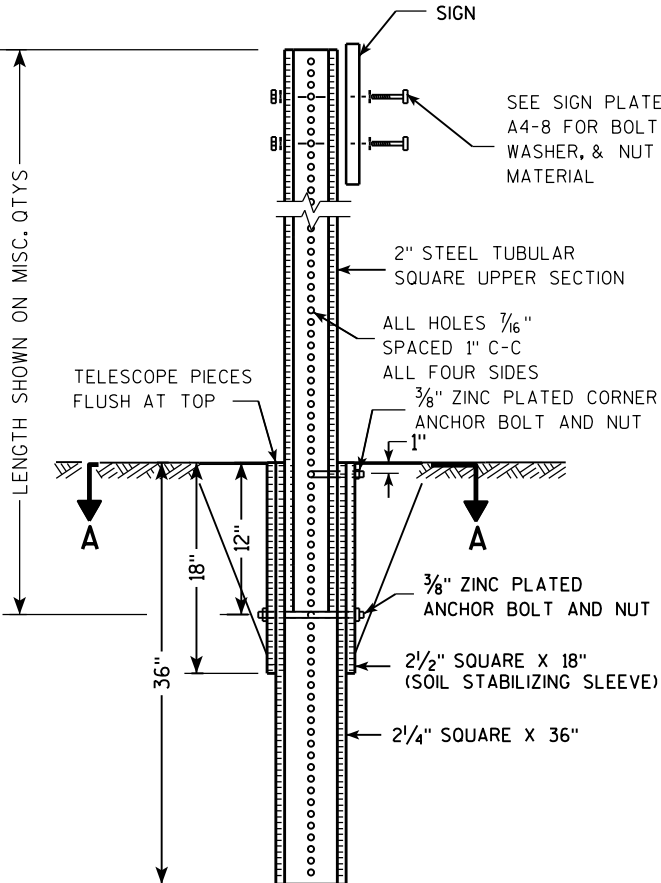
TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM



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).

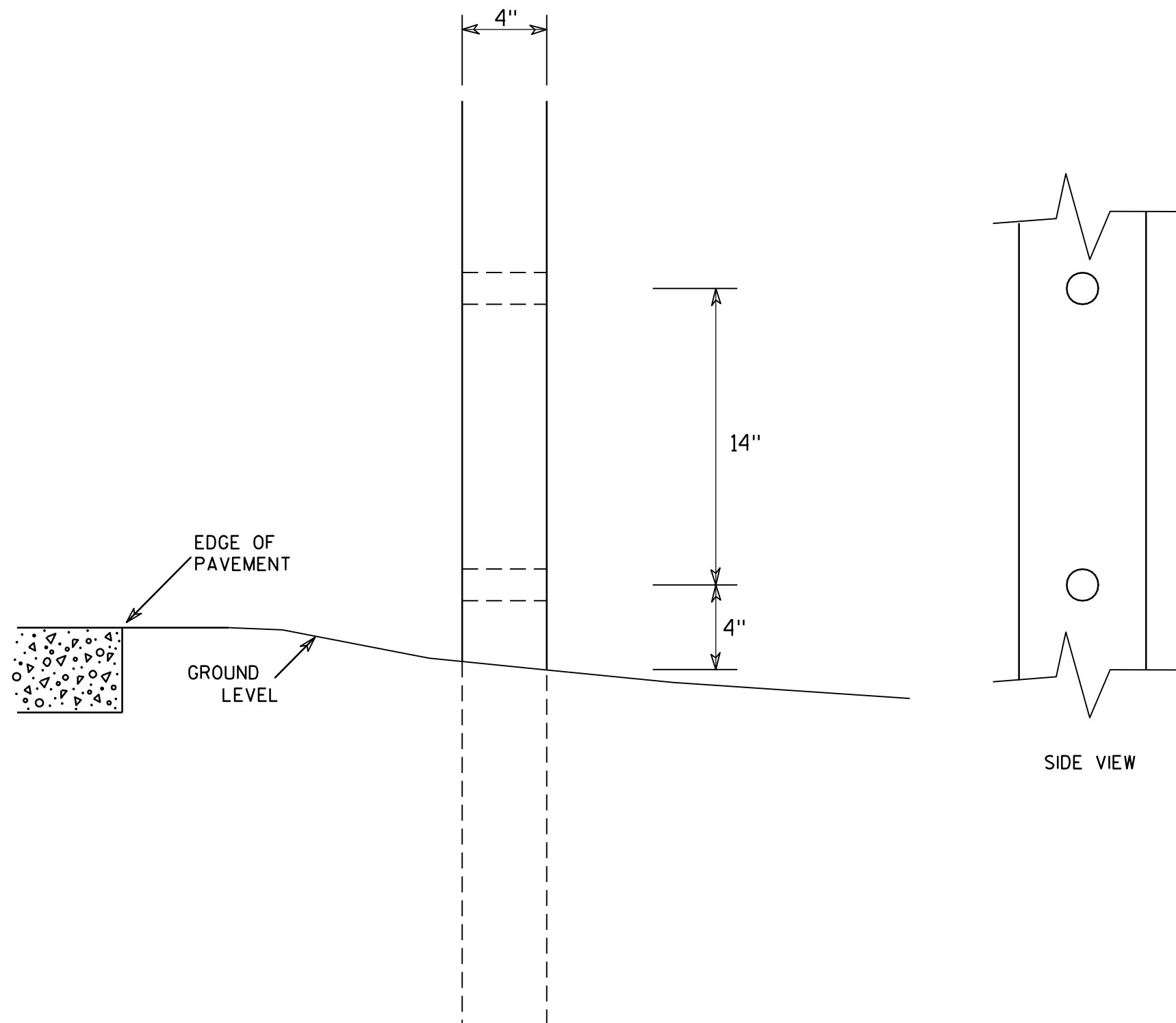
TUBULAR STEEL
SIGN POST
A4-9

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

58, 59, 60, 61, 62, 63

7

LEVELS ON - 2, 3, 5, 6, 10,



D7-62

Metric equivalent
for this sign is:

SIZE	
1	
2	1500 mm X 1050 mm
3	
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ₂
1																												
2	60	42	2 ¼		¾	4 ½	6	4	5	4 ¾	3 ¼	4 ¼	11 ½	2 ¾	3	5 ⅞	16 ⅞	1	23	24 ½	1 ¼	4 ⅜	10 ⅝				17.5	1.58
3																												
4																												
5																												

STATE PROJECT NUMBER:

FILE NAME : C:\Users\Projects\tr_std\late\D762.DGN

PLOT DATE : 22-JAN-2002 08:26

ORG DATE : 6/9/97

Originator : Don Kluever

STANDARD SIGN
D7-62

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Christa J. Spay
State Traffic Engineer

DATE 1/14/02

PLATE NO. D7-62.4

SHEET NO:

E

NOTES

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

58,59,60,61,62,63

7

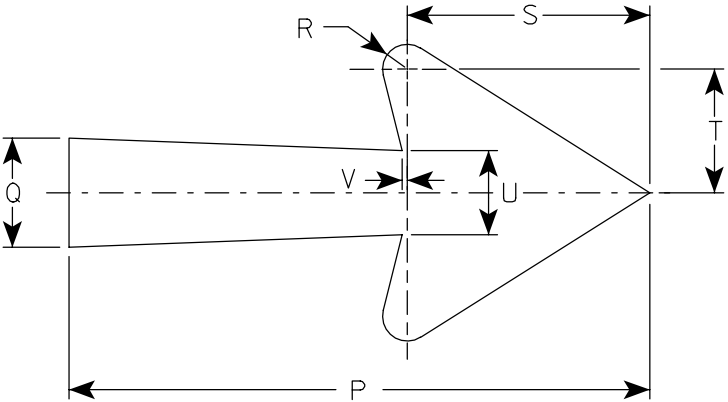
LEVELS ON - 2, 3, 5, 6, 10.



D7-63R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Brown
Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. D7-63L is the same as D7-63R except that the arrow is reversed.



Arrow Detail

Metric equivalent
for this sign is:

SIZE	
1	
2	1500 mm X 900 mm
3	
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	60	36	2 1/4		3/4	4 1/2	6	5 1/2	4 1/4	7	7 1/4	16 7/8	1	23	24 1/2	21	3 1/4	5/8	6 1/8	3 1/8	2 1/8	1/8	5				15.0	1.35
3																												
4																												
5																												

STANDARD SIGN
D7-63

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Christa J. Sperry
for State Traffic Engineer

DATE 1/14/02

PLATE NO. D7-63.4

STATE PROJECT NUMBER:

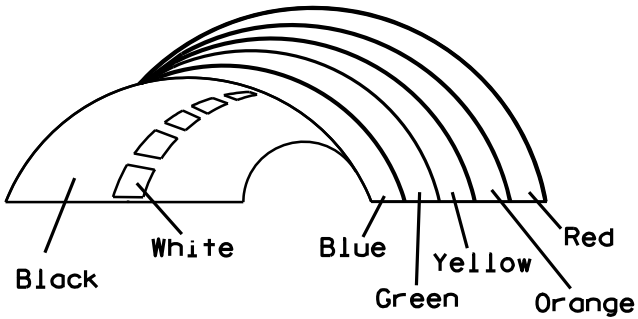
SHEET NO:

E



* VARIES

Background Colors of Symbol*



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

NOTES

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

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

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

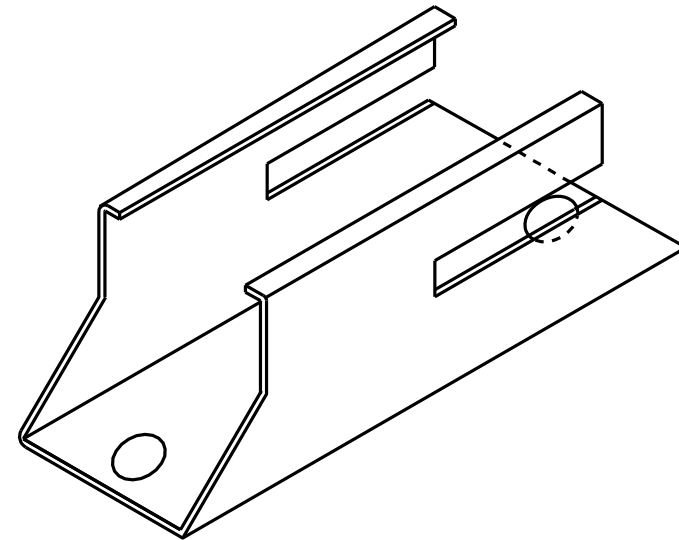
STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

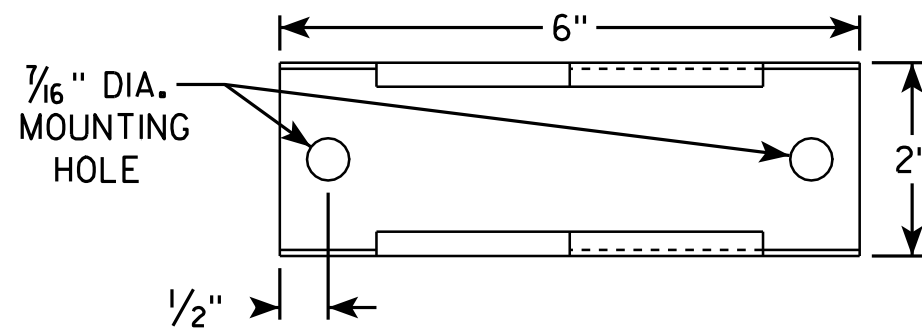
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

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

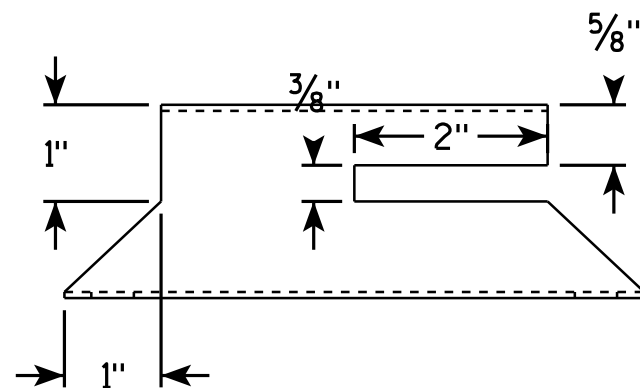
ISOMETRIC VIEW



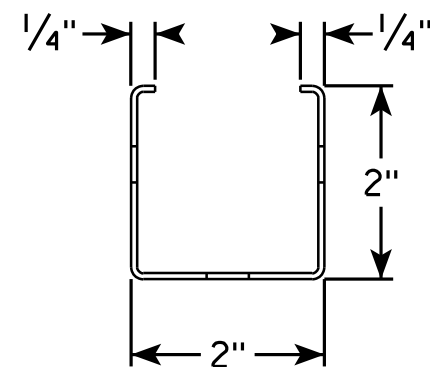
TOP VIEW



SIDE VIEW



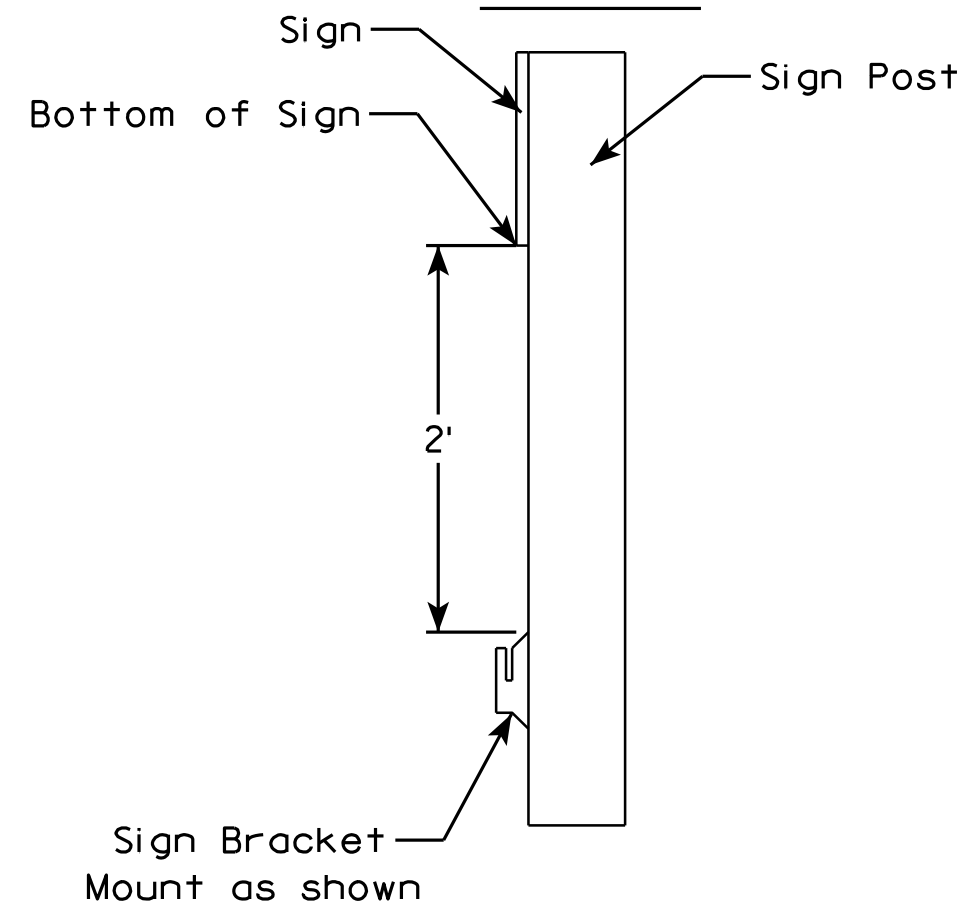
END VIEW



NOTES

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

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

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

PROJECT NO:

HWY:

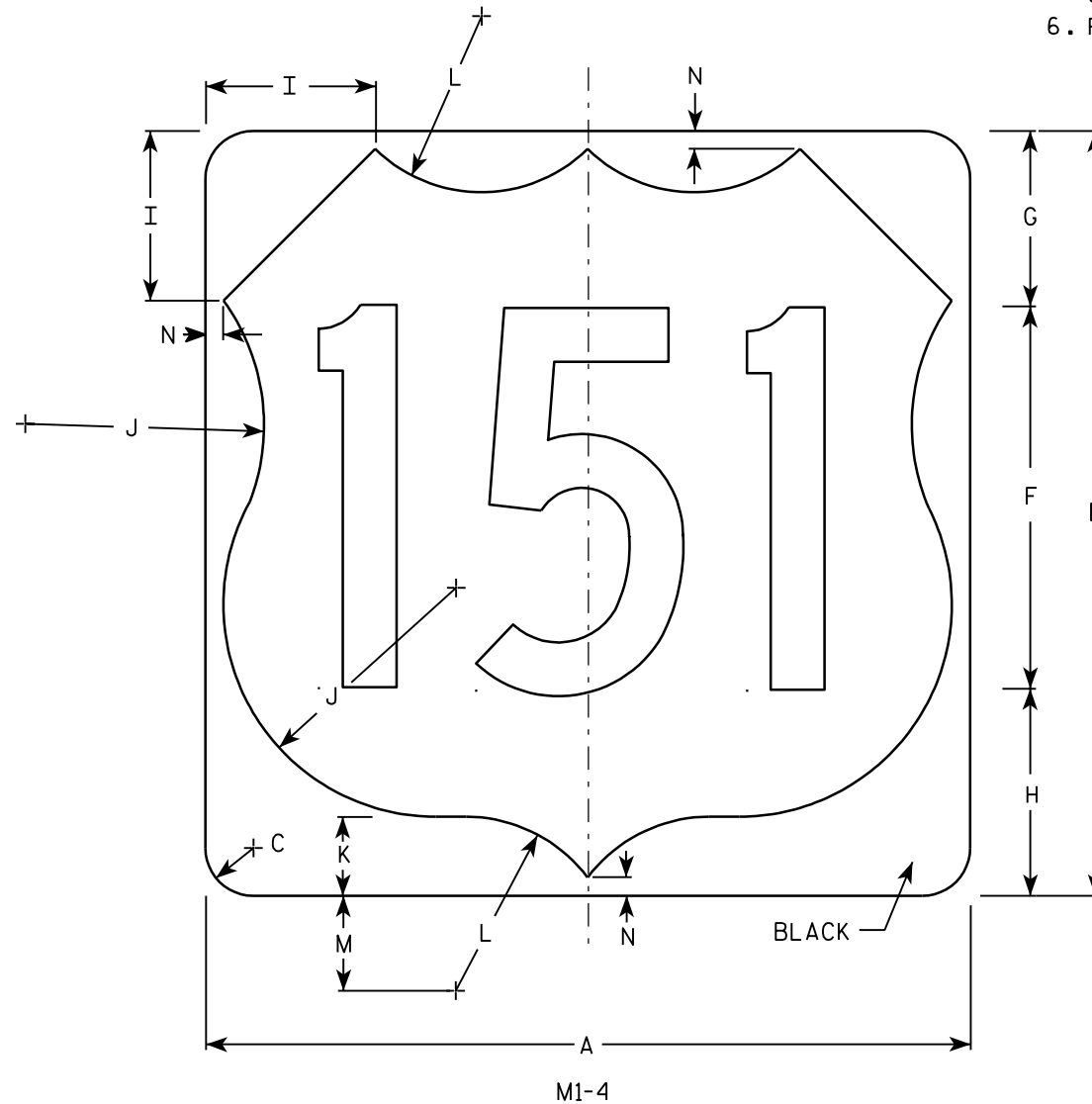
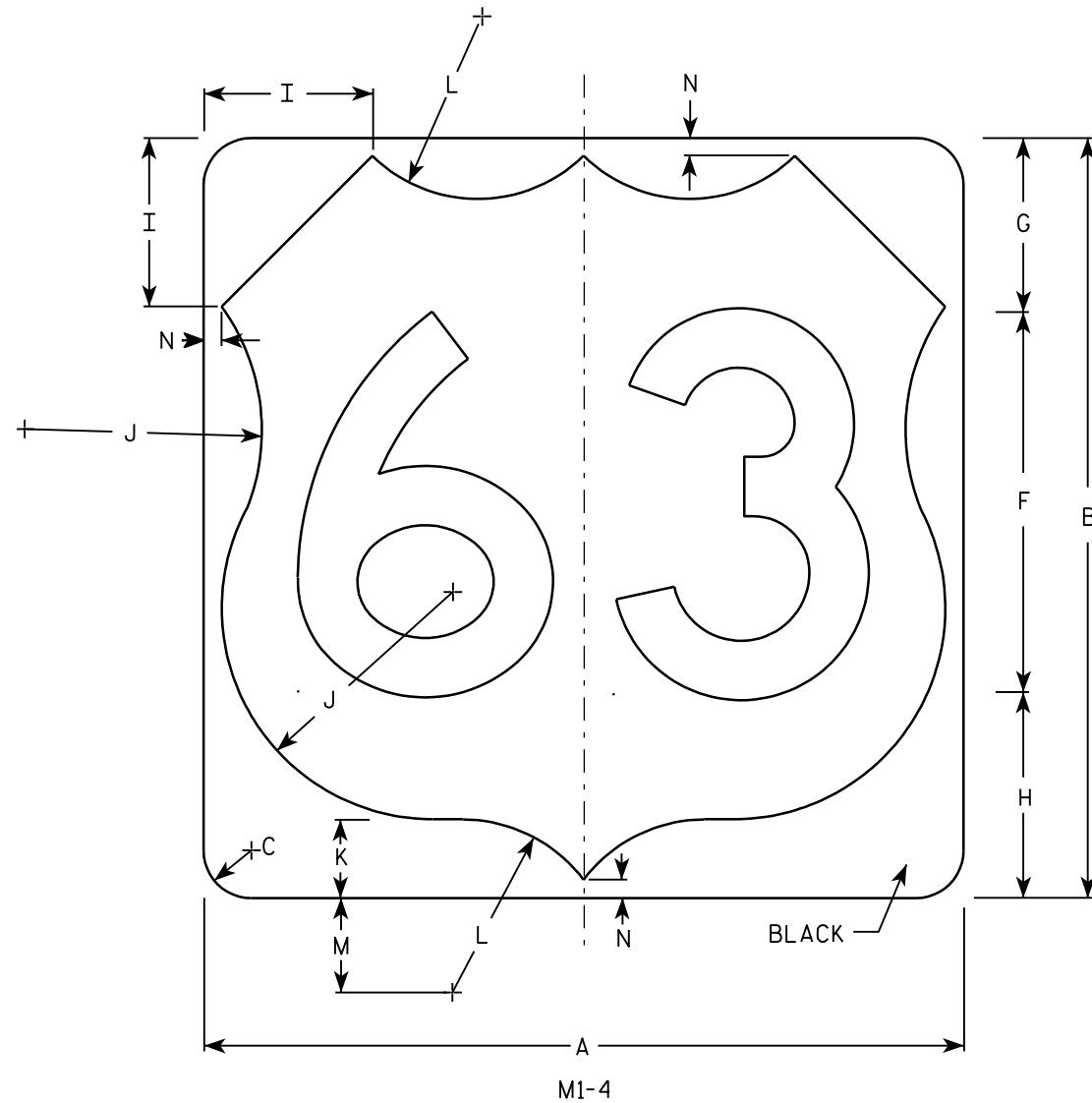
COUNTY:

SHEET NO:

E

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

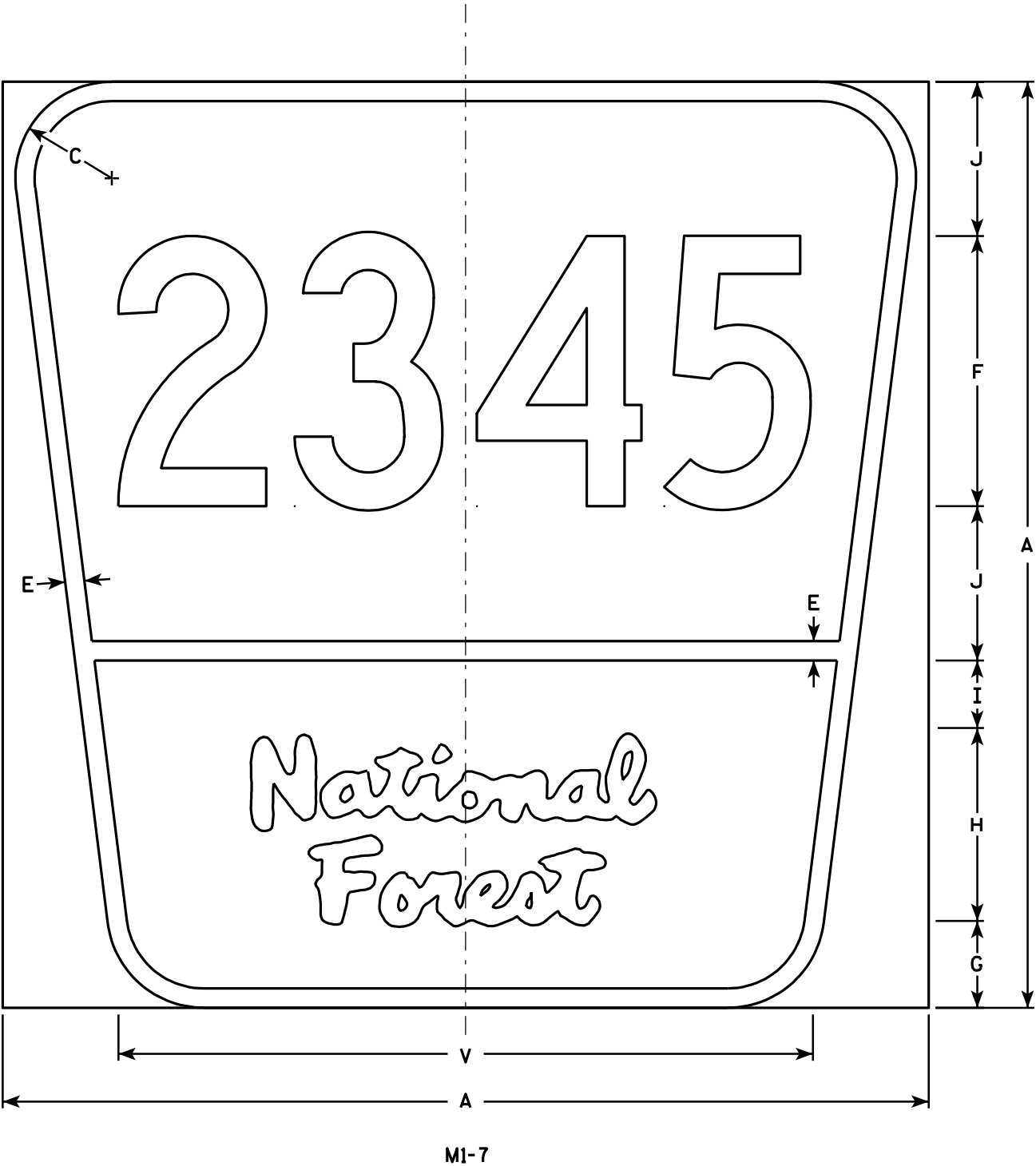
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Areq sq. ft.	Areq m ²
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4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

7

Metric equivalent
for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	
4	
5	



NOTES


1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Brown
Message - White - Type H Reflective
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. 4 digit numerals series C
3 digit numerals series D
6. See National Forest Handbook for layout of "National Forest".

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.	Area sq. m.
1																												
2	24		2 1/2		1/2	7	2 1/4	5	1 3/4	4												18					4.0	.37
3																												
4																												
5																												

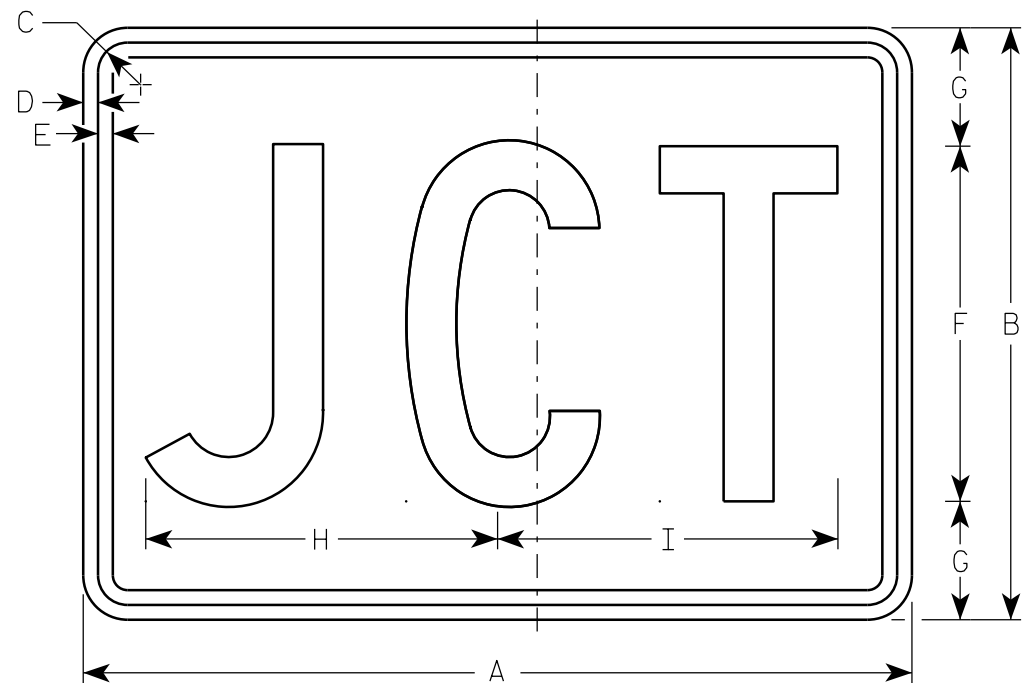
STANDARD SIGN
M1-7

WISCONSIN DEPT OF TRANSPORTATION

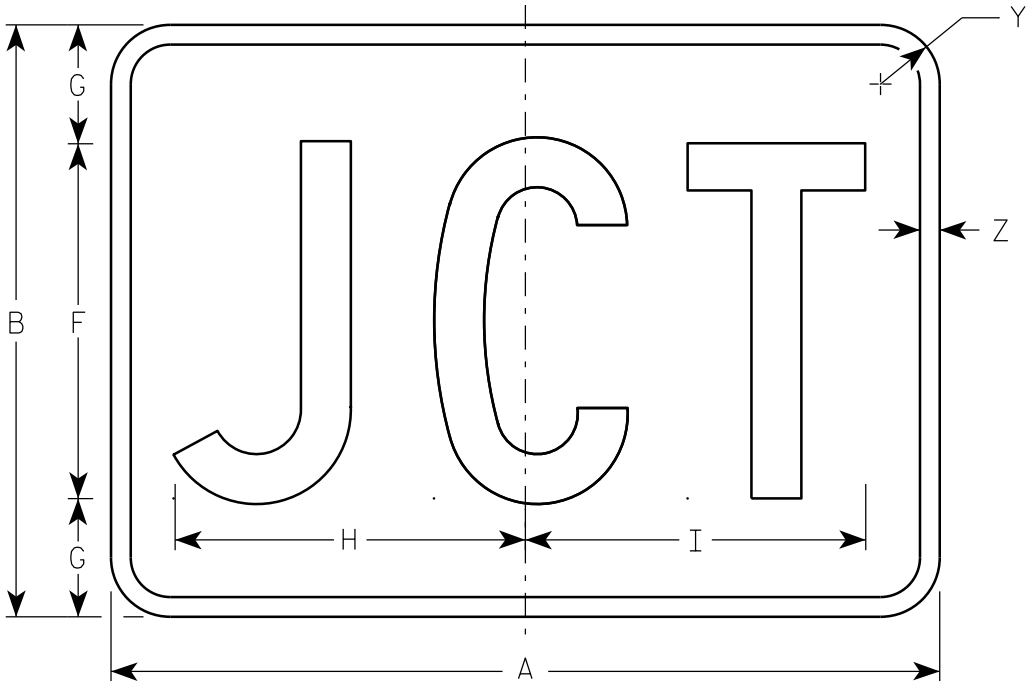
APPROVED 
for State Traffic Engineer

DATE 1/30/02 PLATE NO. M1-7.5

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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M2-1
MK2-1
MM2-1
MN2-1
MR2-1



MB2-1

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
 MR2-1 Background - Brown
 Message - Yellow

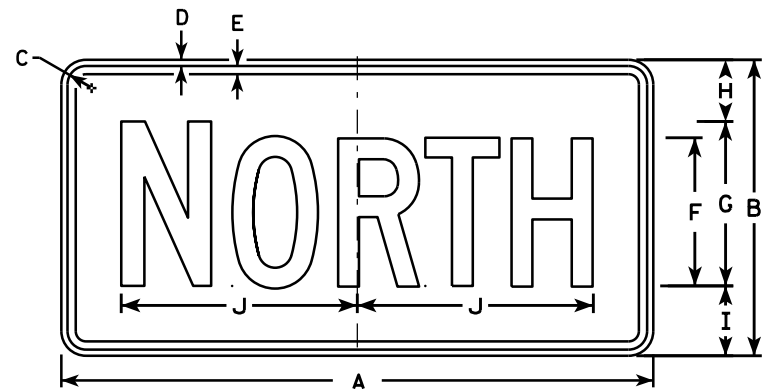
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2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

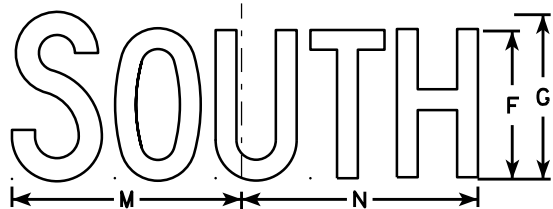
DATE 6/30/14 PLATE NO. M2-1.11



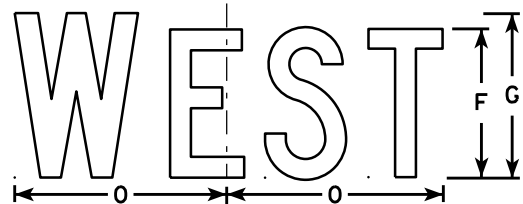
M3-1
MK3-1
MM3-1
MN3-1



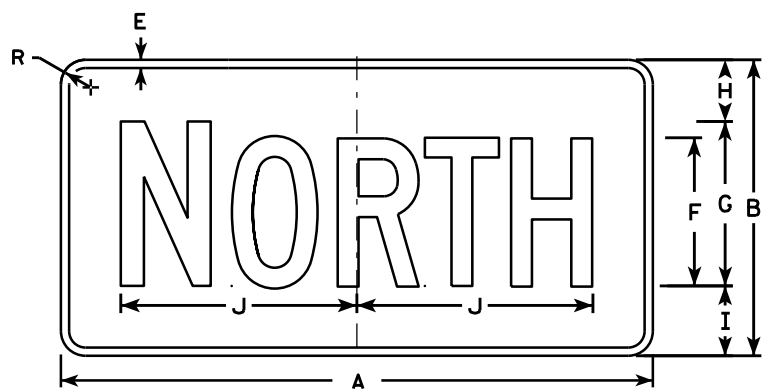
M3-2
MK3-2
MM3-2
MN3-2



M3-3
MK3-3
MM3-3
MN3-3



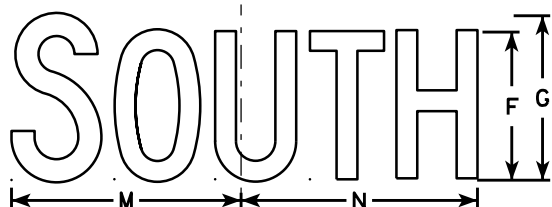
M3-4
MK3-4
MM3-4
MN3-4



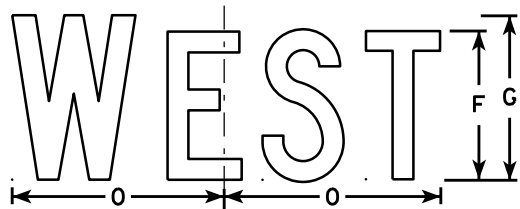
MB3-1



MB3-2



MB3-3



MB3-4

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
6. Note the first letter of each direction is larger than the remainder of the message.

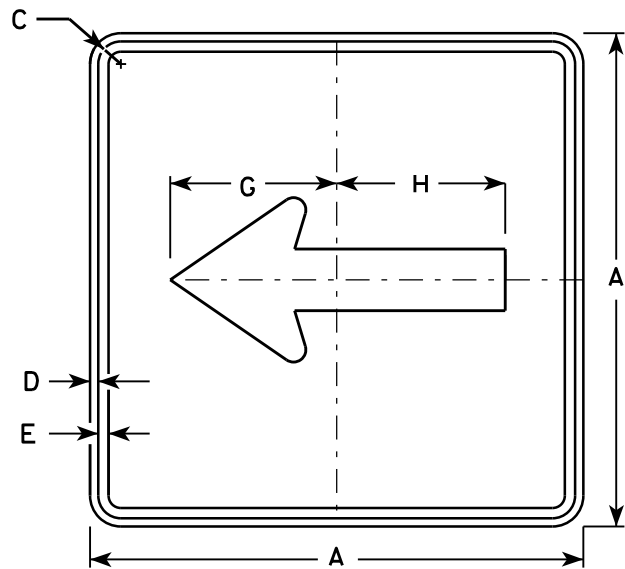
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8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

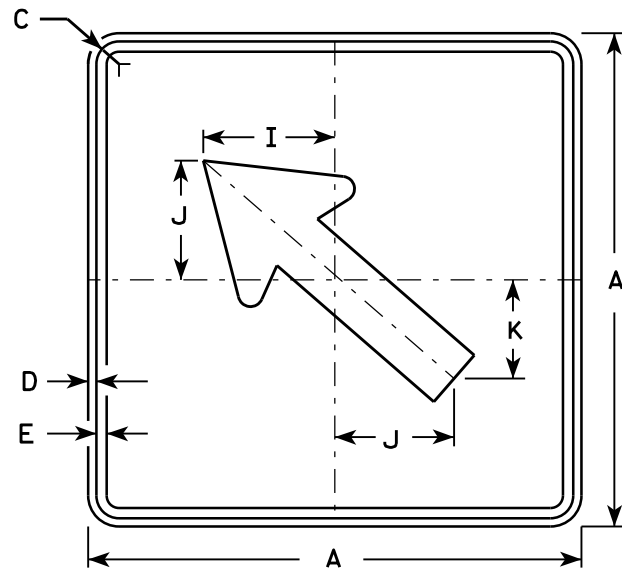
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

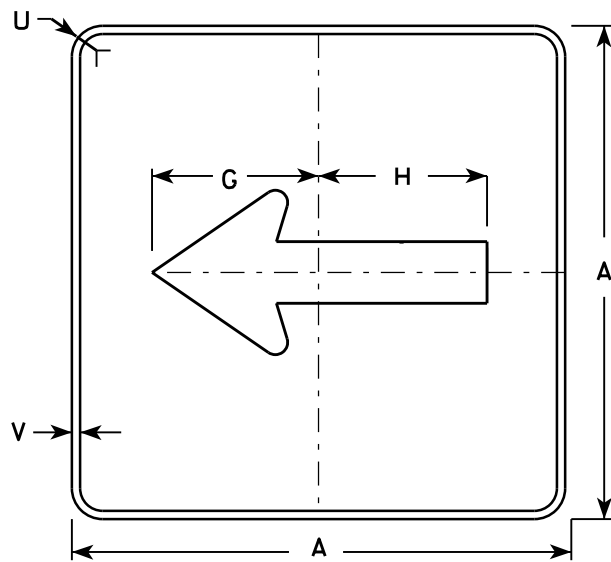
DATE 6/30/14 PLATE NO. M3-1.13



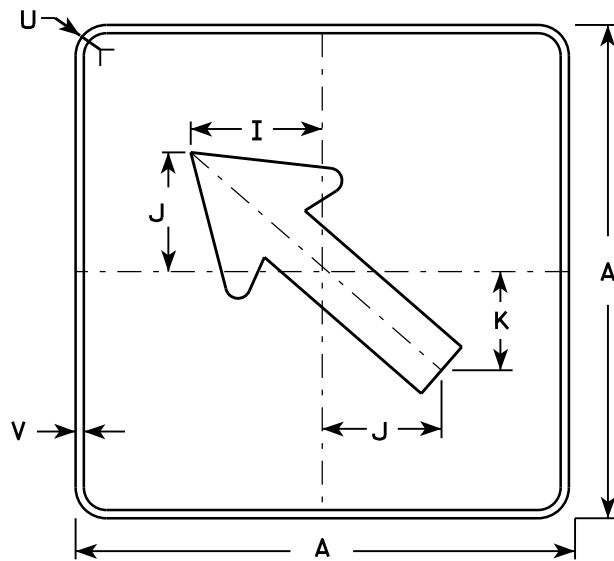
M6 - 1
MK6 - 1
MM6 - 1
MN6 - 1
M06 - 1
MP6 - 1
MR6 - 1



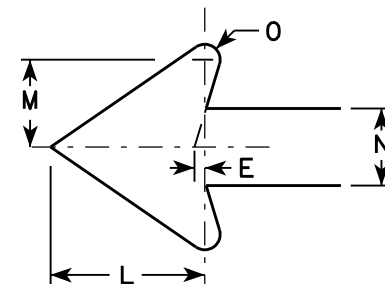
M6 - 2
MK6 - 2
MM6 - 2
MN6 - 2
M06 - 2
MP6 - 2
MR6 - 2



MB6 - 1



MB6 - 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
MG6-1 and MG6-2 Background - Green
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

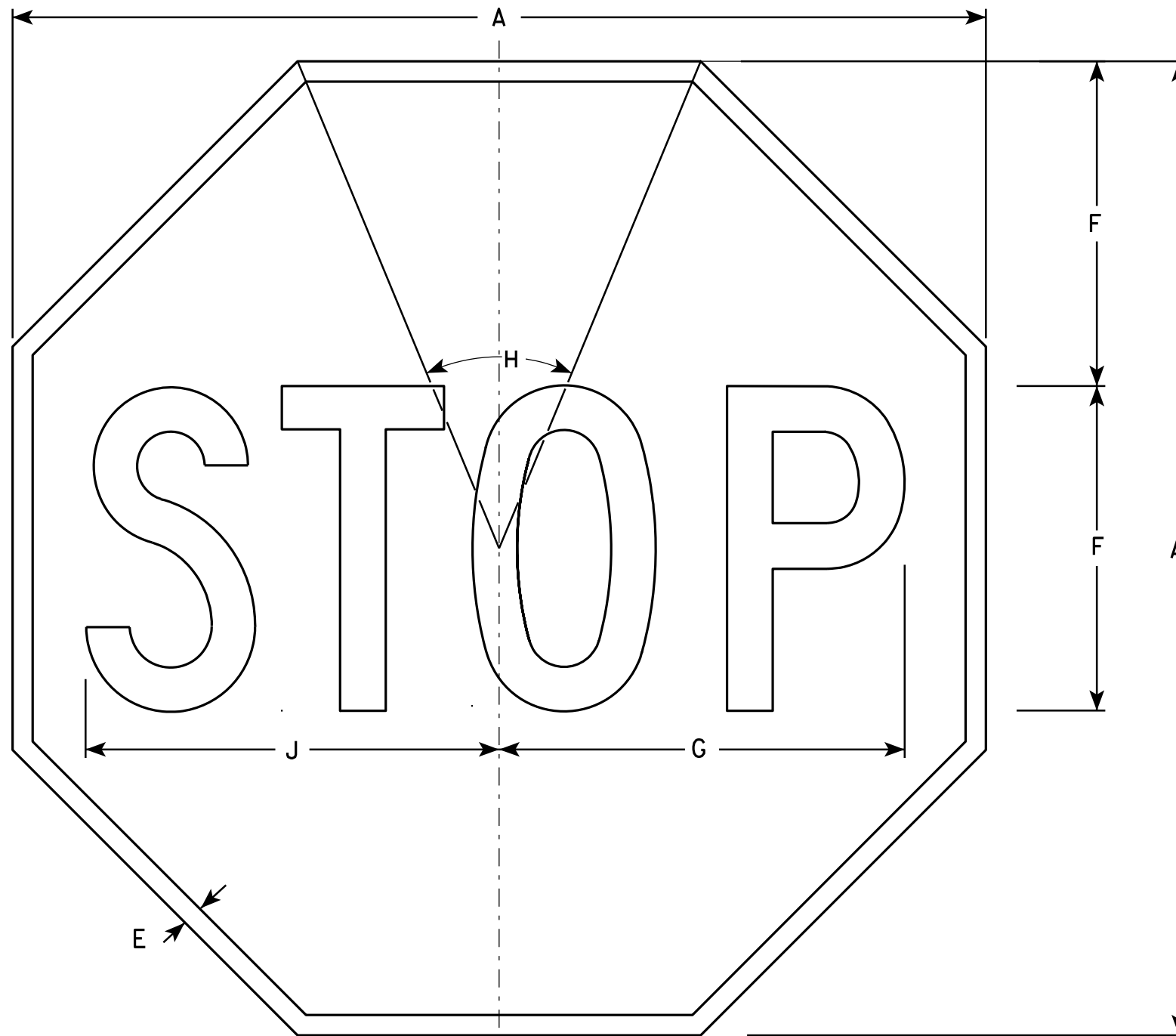
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10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

STANDARD SIGN
M6 - 1 & M6 - 2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 7/03/14 PLATE NO. M6-1.14



NOTES

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

R1-1

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

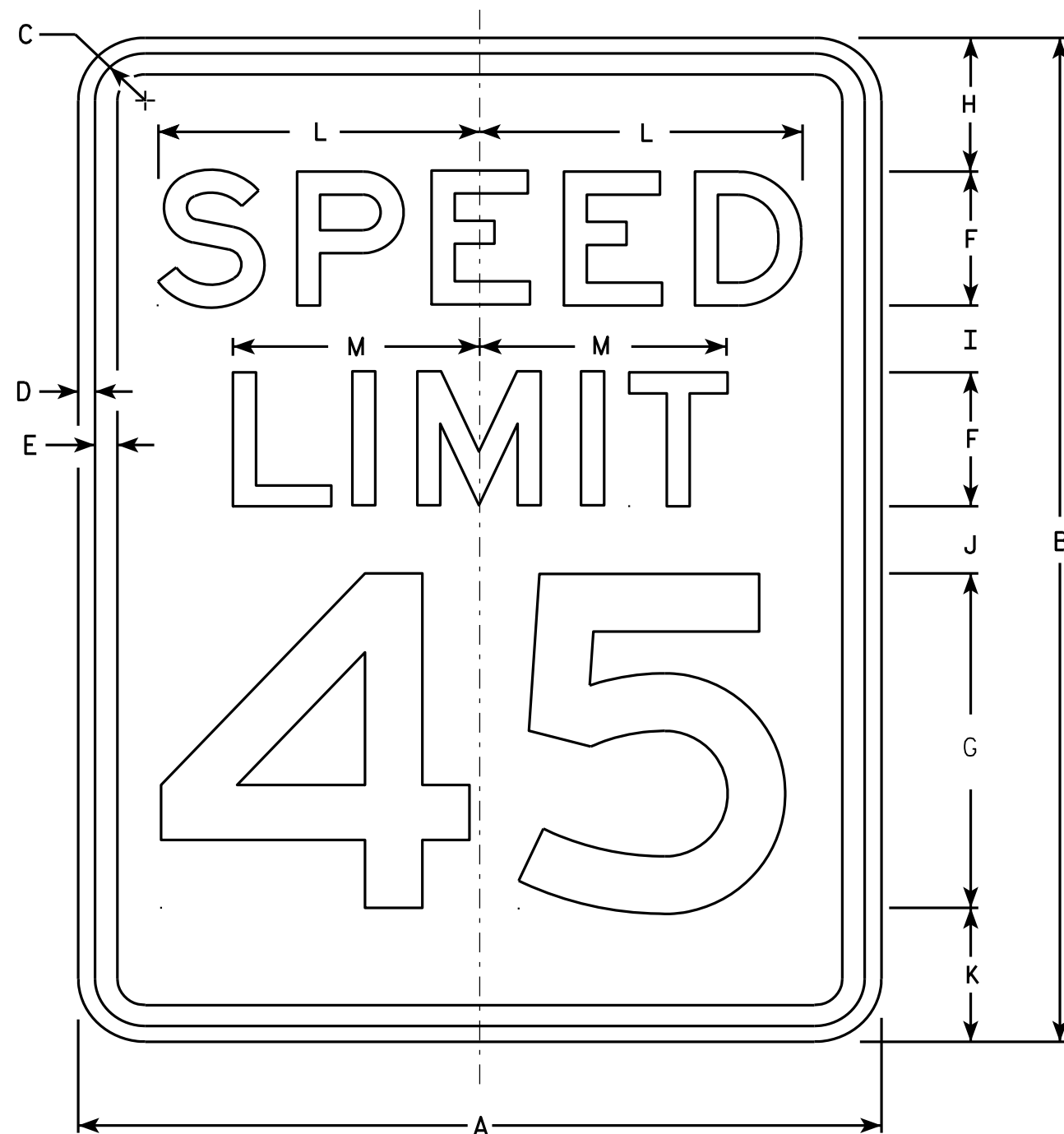
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

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

NOTES

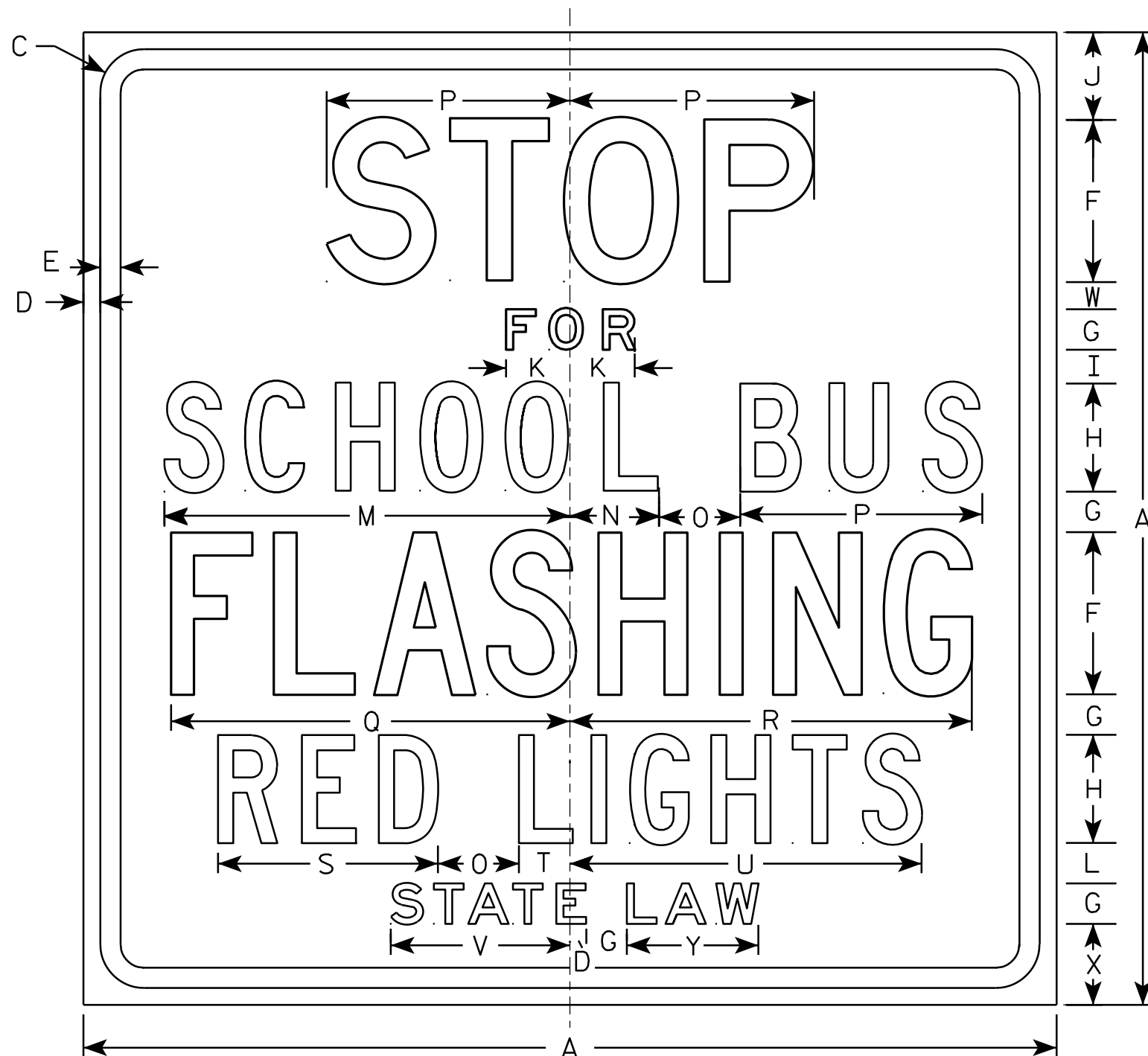
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as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

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

STANDARD SIGN R2-1

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

PROJECT NO: HWY: COUNTY: SHEET NO: E



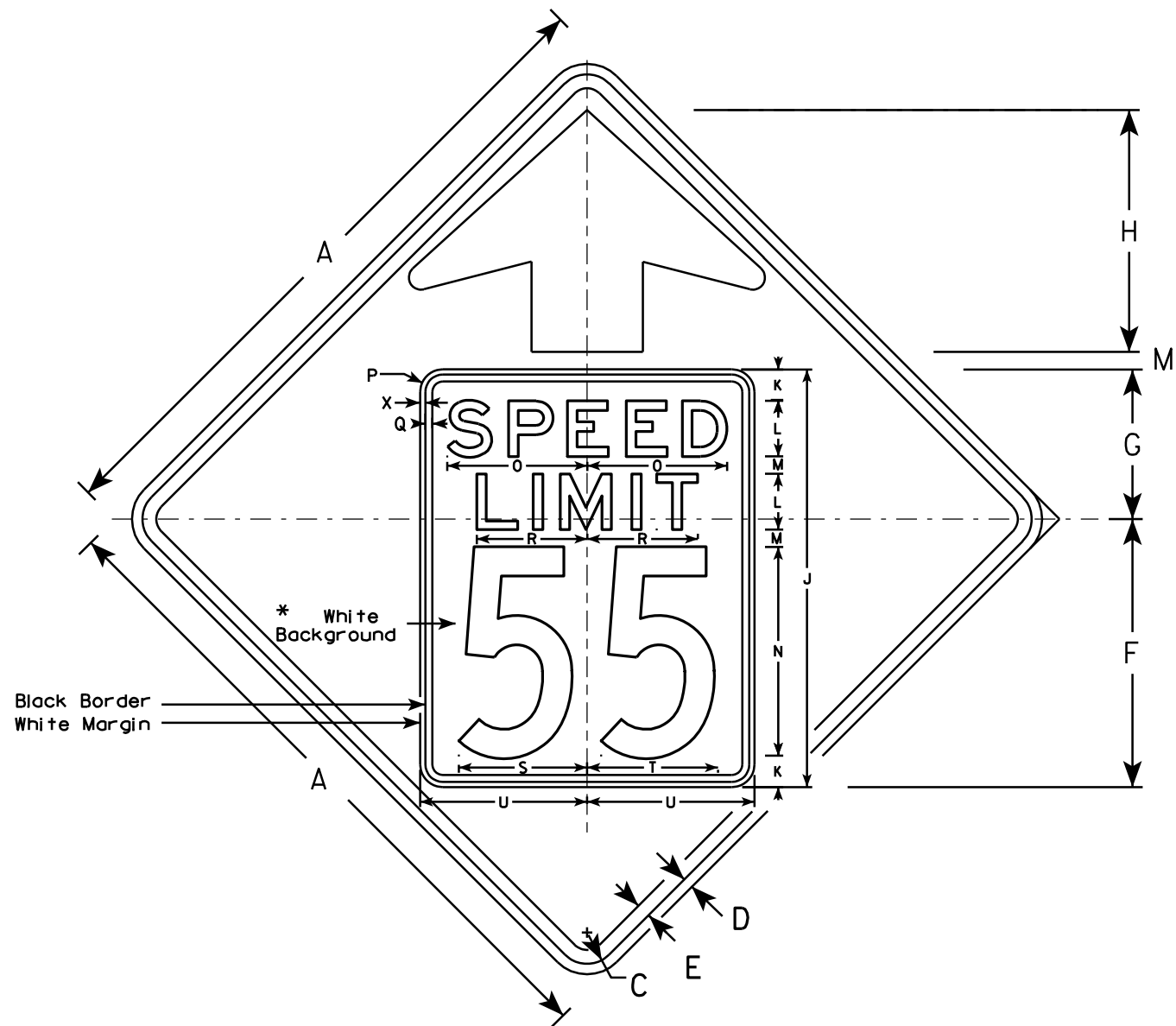
R59-51

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - 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. Line 1 is Series D
Lines 2 & 6 are Series E
Line 3, 4 & 5 are Series C

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	6	1 1⁄2	4	1 1⁄4	3 1⁄4	2 3⁄8	1 1⁄2	15	3 1⁄4	3	9	14 3⁄4	14 7⁄8	8 1⁄8	1 7⁄8	13	6 5⁄8	1	3	4 7⁄8		9.0
2M	36		1 5⁄8	5⁄8	3⁄4	6	1 1⁄2	4	1 1⁄4	3 1⁄4	2 3⁄8	1 1⁄2	15	3 1⁄4	3	9	14 3⁄4	14 7⁄8	8 1⁄8	1 7⁄8	13	6 5⁄8	1	3	4 7⁄8		9.0
3	48		2 1⁄4	3⁄4	1	8	2	6	1 1⁄4	4 3⁄4	3 1⁄4	1 1⁄2	20 1⁄4	5	3 5⁄8	12	19 1⁄2	20	11 5⁄8	3 3⁄4	19	9 1⁄2	1	3 1⁄2	6 3⁄4		16.0
4	48		2 1⁄4	3⁄4	1	8	2	6	1 1⁄4	4 3⁄4	3 1⁄4	1 1⁄2	20 1⁄4	5	3 5⁄8	12	19 1⁄2	20	11 5⁄8	3 3⁄4	19	9 1⁄2	1	3 1⁄2	6 3⁄4		16.0
5																											

STANDARD SIGN R59-51	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 3/30/11	PLATE NO. R59-51.10

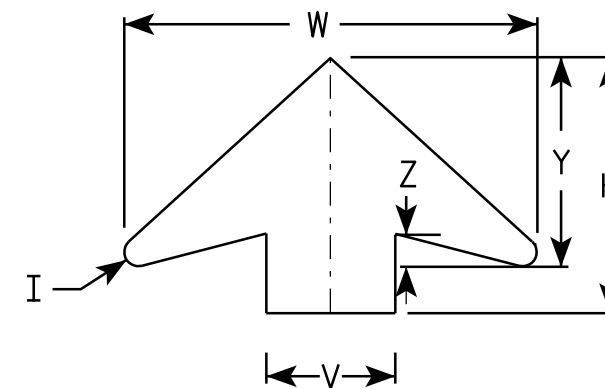


W3-5

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

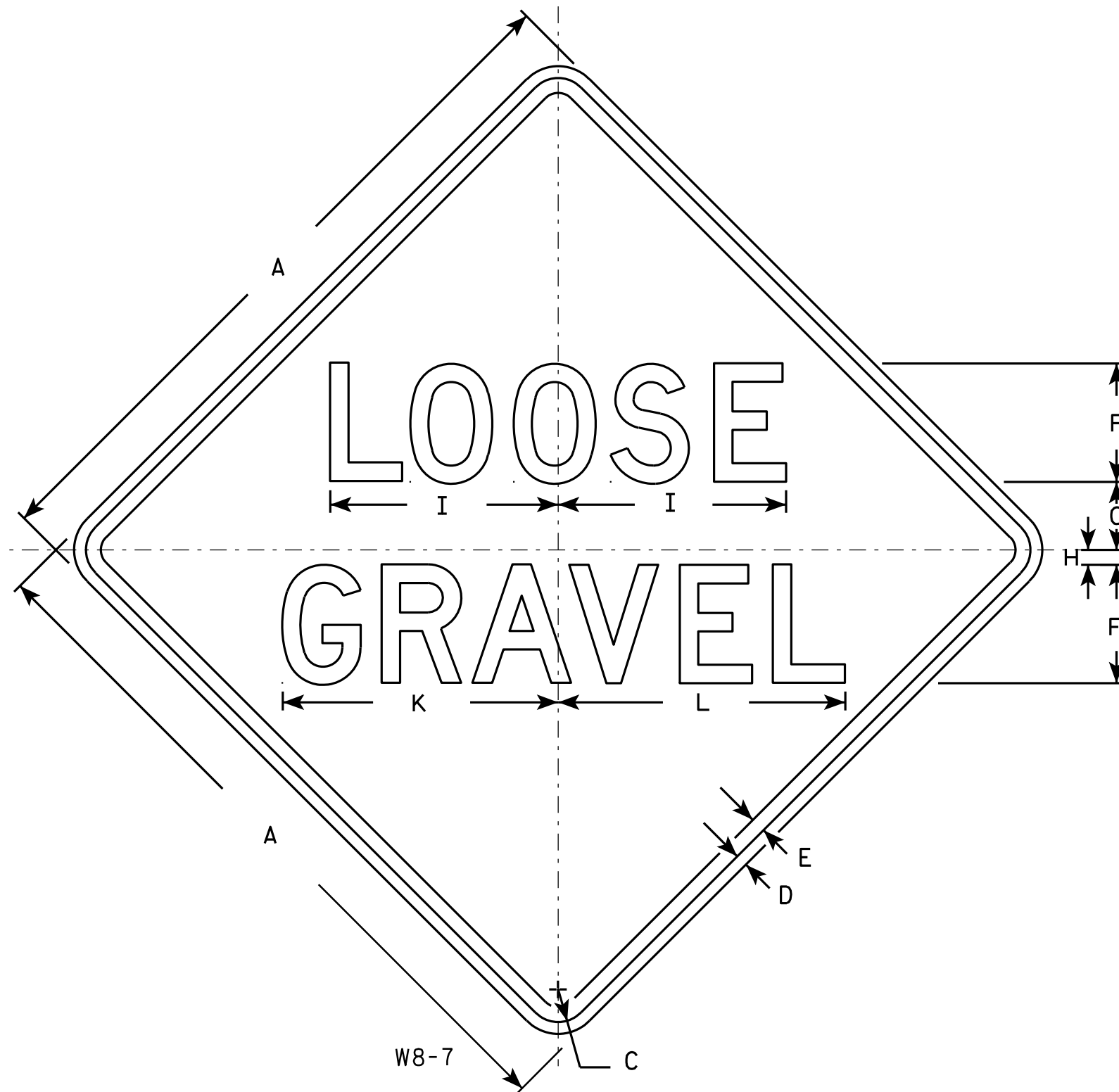
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO:

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 - Orange
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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 3/4	1/2	7 3/4		9 1/4	9 3/4															4.0
2S	36		1 5/8	5/8	3/4	6	4 1/8	3/4	11 5/8		14	14 1/2															9.0
2M	36		1 5/8	5/8	3/4	6	4 1/8	3/4	11 5/8		14	14 1/2															9.0
3	36		1 5/8	5/8	3/4	6	4 1/8	3/4	11 5/8		14	14 1/2															9.0
4	36		1 5/8	5/8	3/4	6	4 1/8	3/4	11 5/8		14	14 1/2															9.0
5	48		2 1/4	3/4	1	8	5 1/2	1	15 1/2		18 5/8	19 3/8															16.0

STANDARD SIGN

W8-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 5/30/12 PLATE NO. W8-7.7

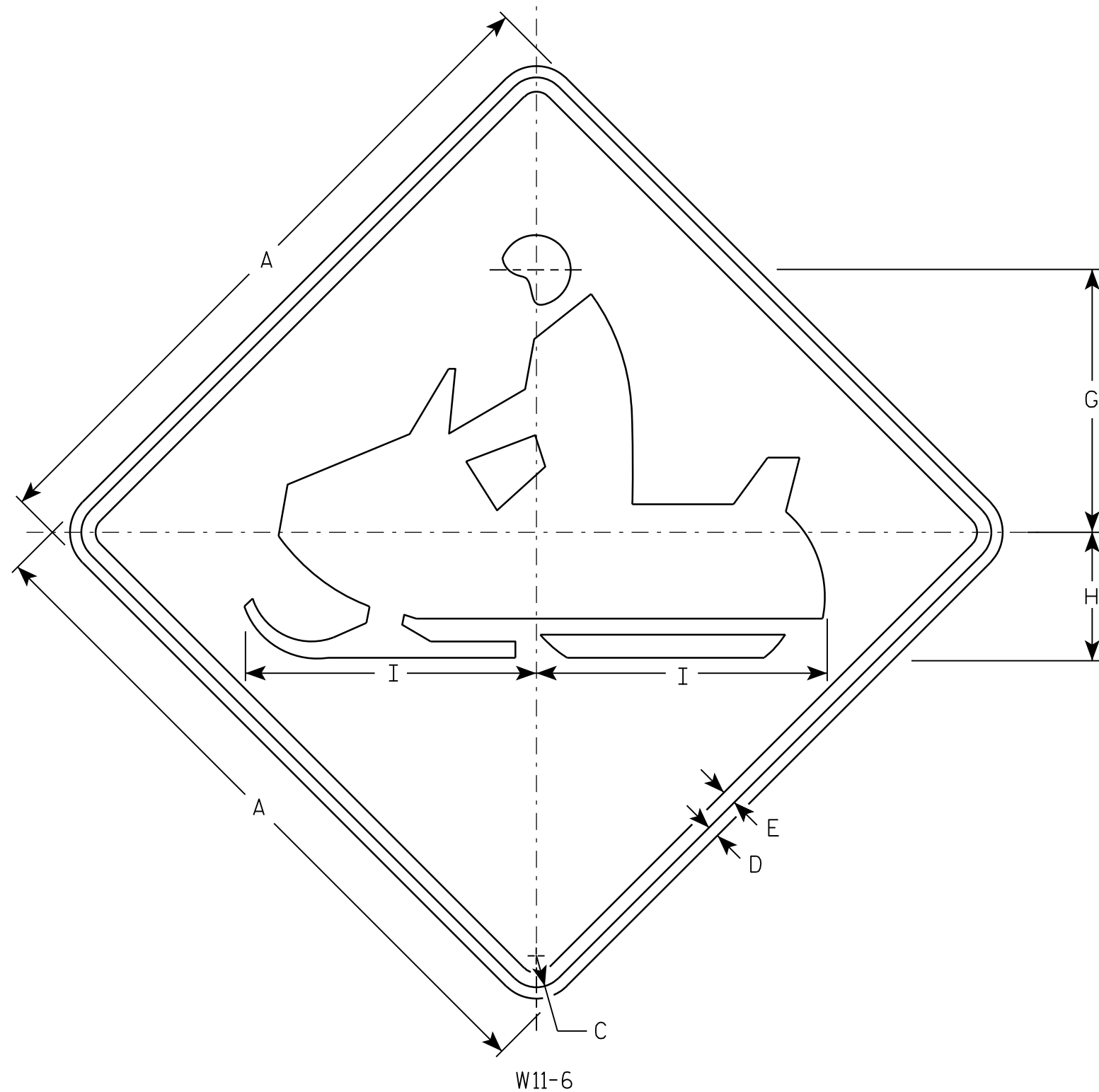
PROJECT NO:

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.

W11-6

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		9 1/2	4 1/2	10 1/4																		4.0
2S	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
2M	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
3	36		1 5/8	5/8	3/4		14 1/8	6 3/4	15 1/4																		9.0
4	48		2 1/4	3/4	1		19	9	20 1/2																		16.0
5																											

STANDARD SIGN W11-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R. Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-6.8

PROJECT NO:

HWY:

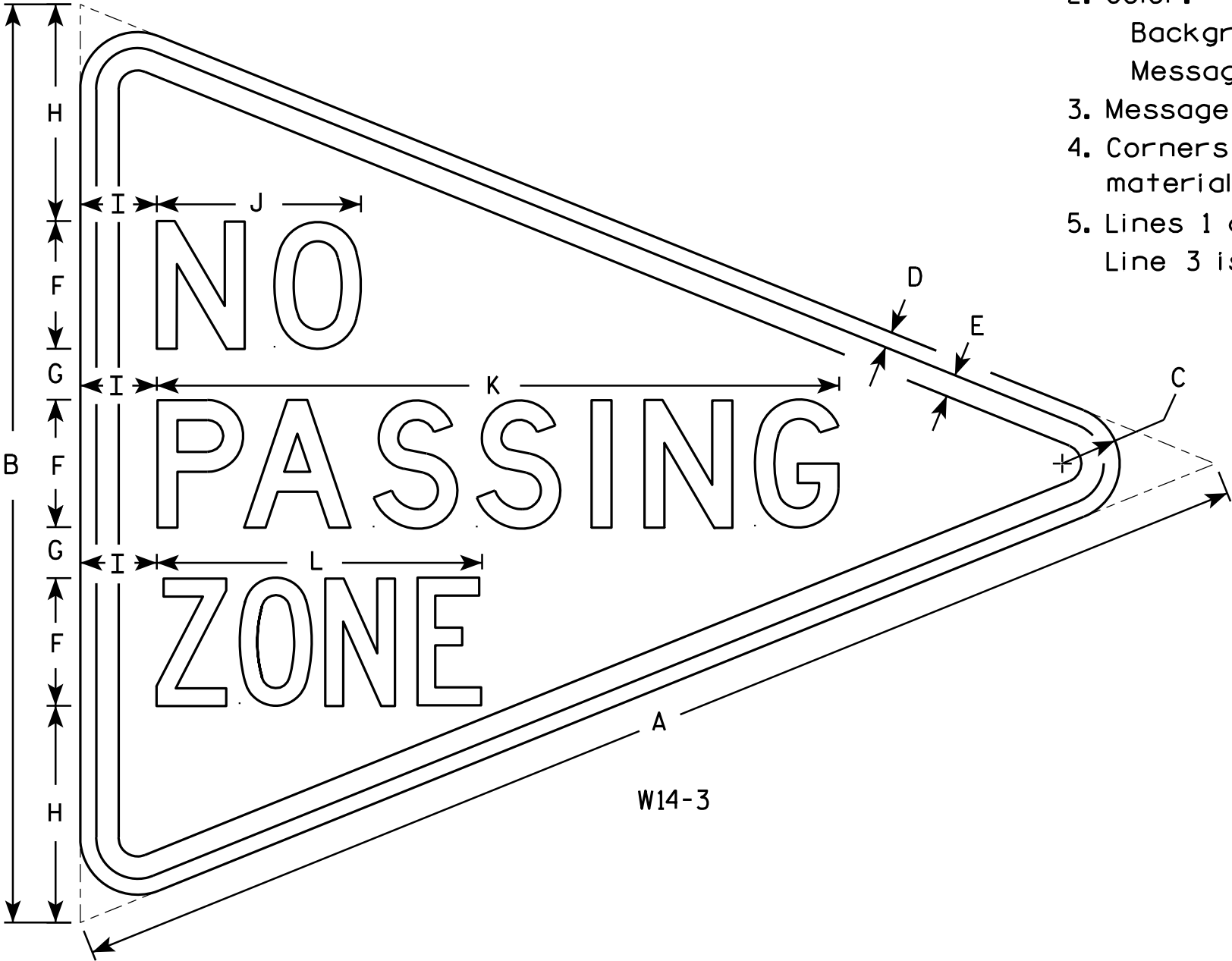
COUNTY:

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 5
- 4. Corners and borders shall be rounded on all base materials for this sign.
- 5. Lines 1 and 2 are Series D.
Line 3 is series C.



W14-3

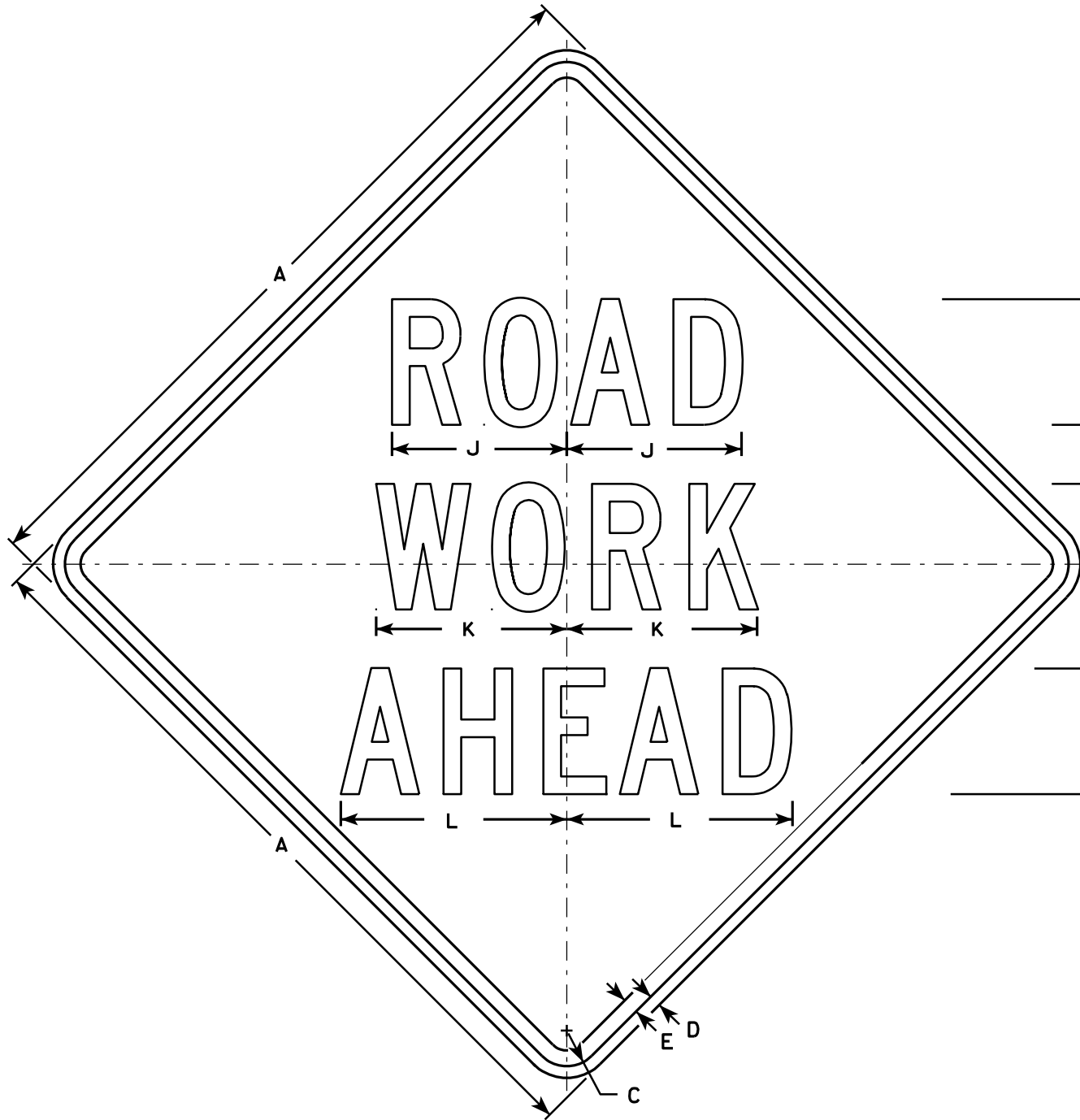
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

STANDARD SIGN
W14-3

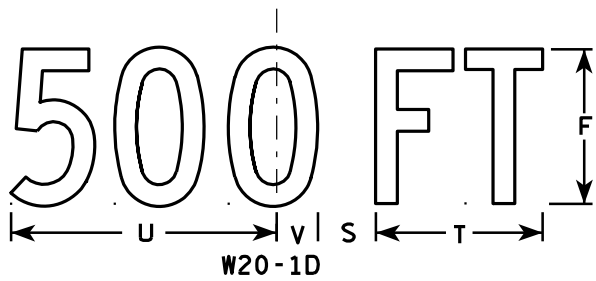
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

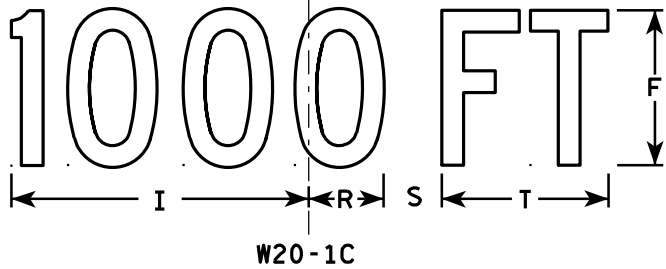
DATE 6/7/10 PLATE NO. W14-3.9



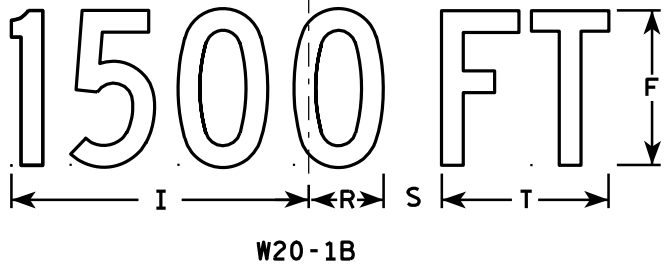
W20-1A



W20-1D



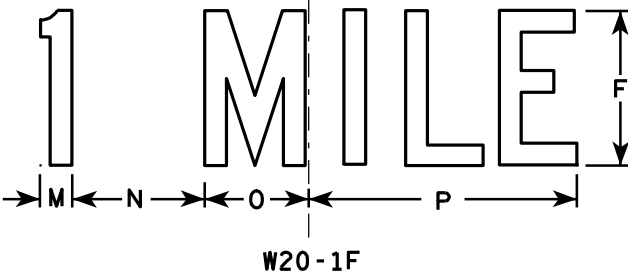
W20-1C



W20-1B



W20-1G



W20-1F

NOTES

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

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

PROJECT NO:

SHEET NO:

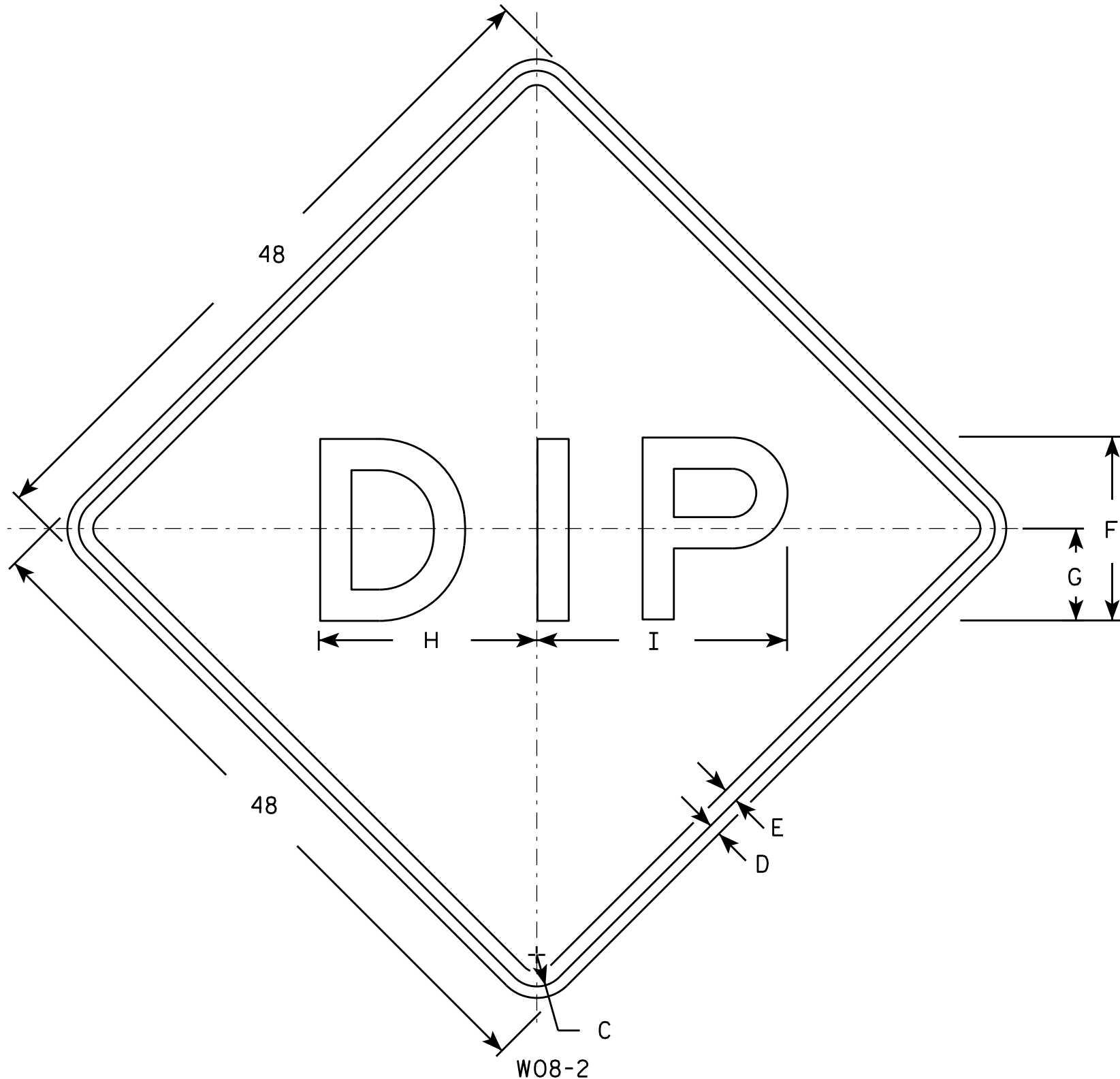
E

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
For State Traffic Engineer

DATE 3/18/11
PLATE NO. W20-1.9



NOTES

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

W08-2

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		1 5⁄8	5⁄8	3⁄4	10	5	11 7⁄8	13 1⁄2																		9.0
2S	48		2 1⁄4	3⁄4	1	12	6	14 1⁄4	16 1⁄4																		16.0
2M	48		2 1⁄4	3⁄4	1	12	6	14 1⁄4	16 1⁄4																		16.0
3	48		2 1⁄4	3⁄4	1	12	6	14 1⁄4	16 1⁄4																		16.0
4	48		2 1⁄4	3⁄4	1	12	6	14 1⁄4	16 1⁄4																		16.0
5	48		2 1⁄4	3⁄4	1	12	6	14 1⁄4	16 1⁄4																		16.0

STANDARD SIGN

W08-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

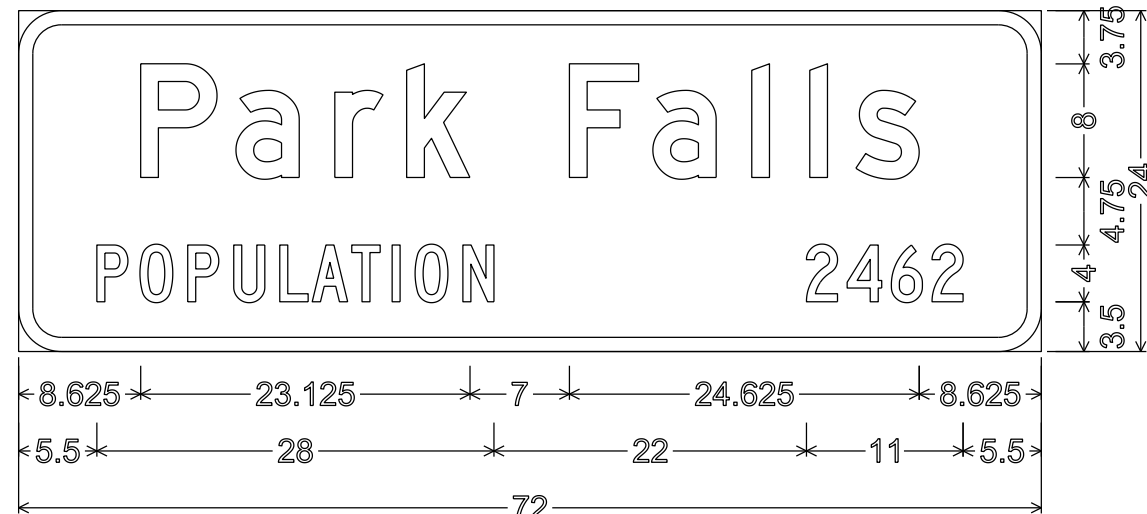
Matthew R. Rauch
for State Traffic Engineer

DATE 11/20/13

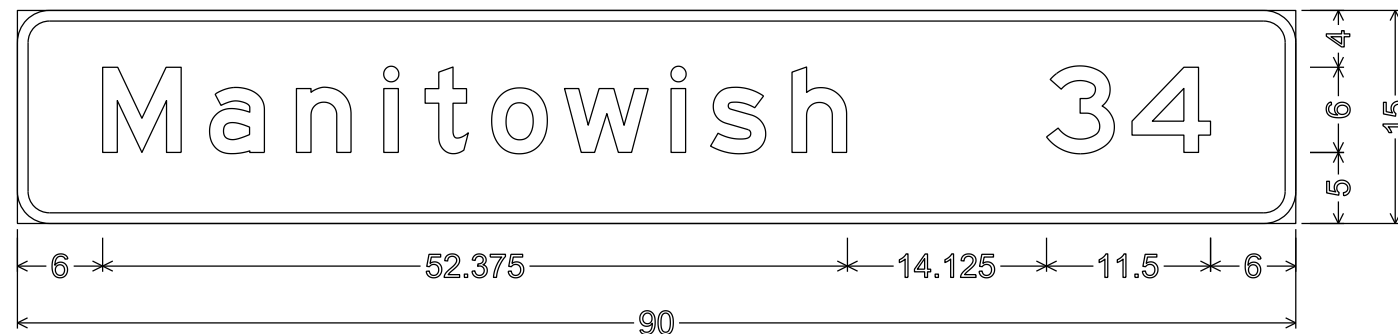
PLATE NO. W08-2.1

NOTES

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



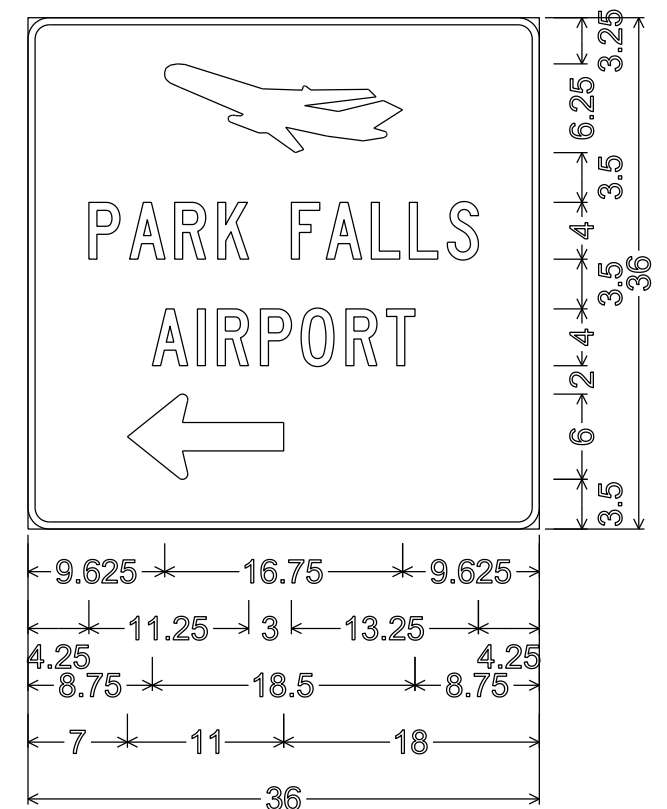
I2-3; 3.000" Radius, 1.000" Border
"Park" D; "Falls" D; "POPULATION" C; "2462" C;



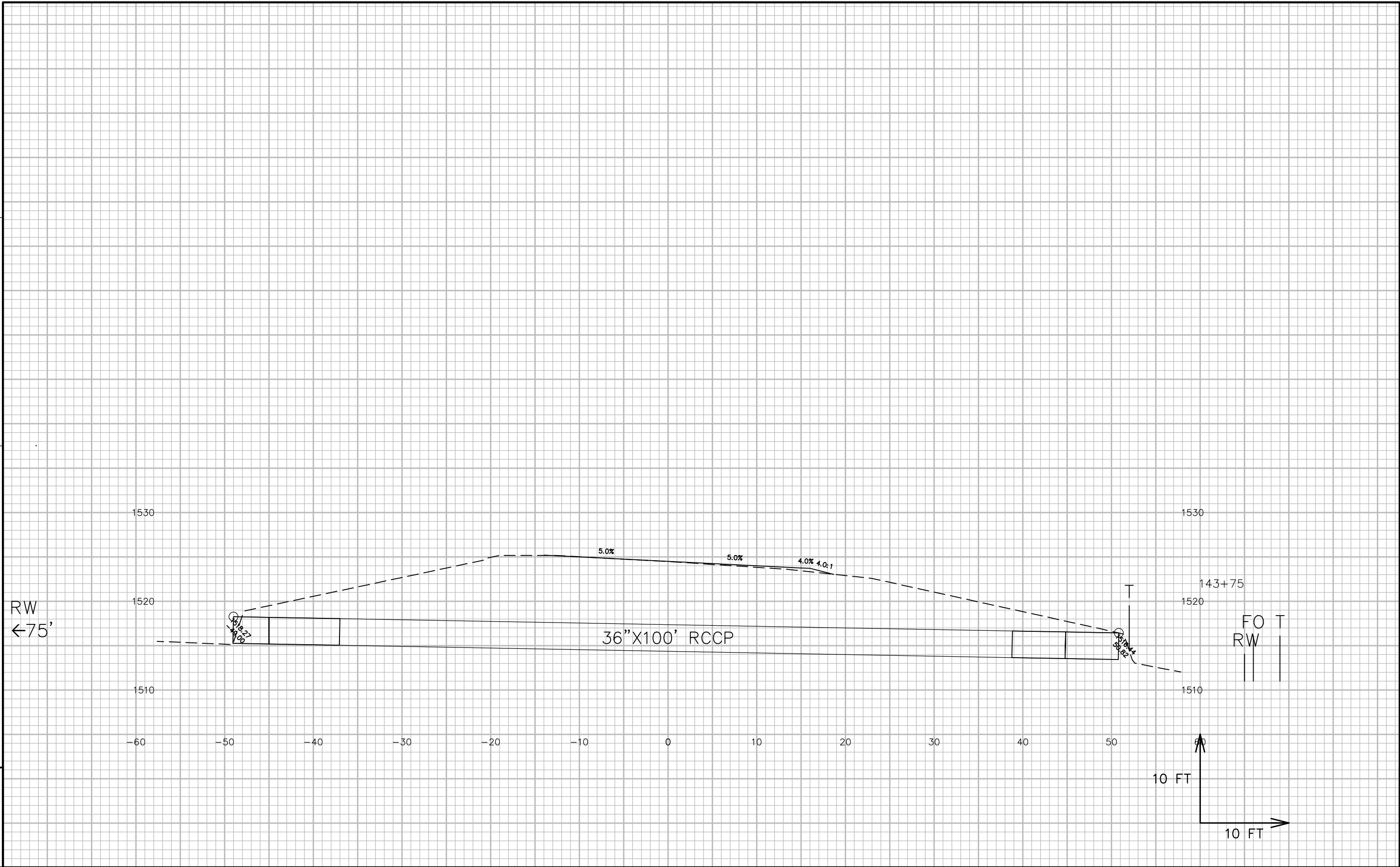
I2-2; 2.250" Radius, 0.750" Border
"Manitowish" E; "34" E;

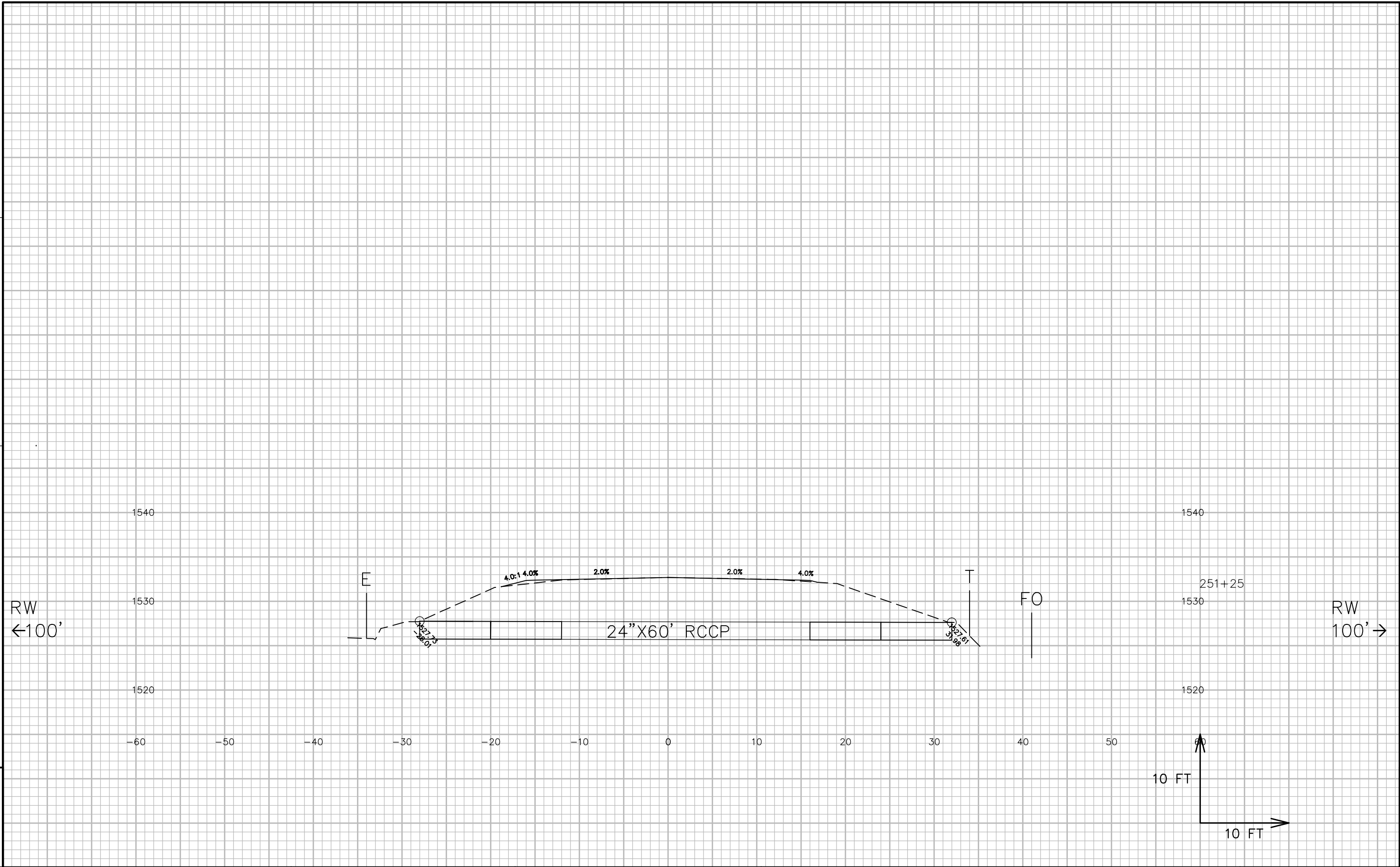


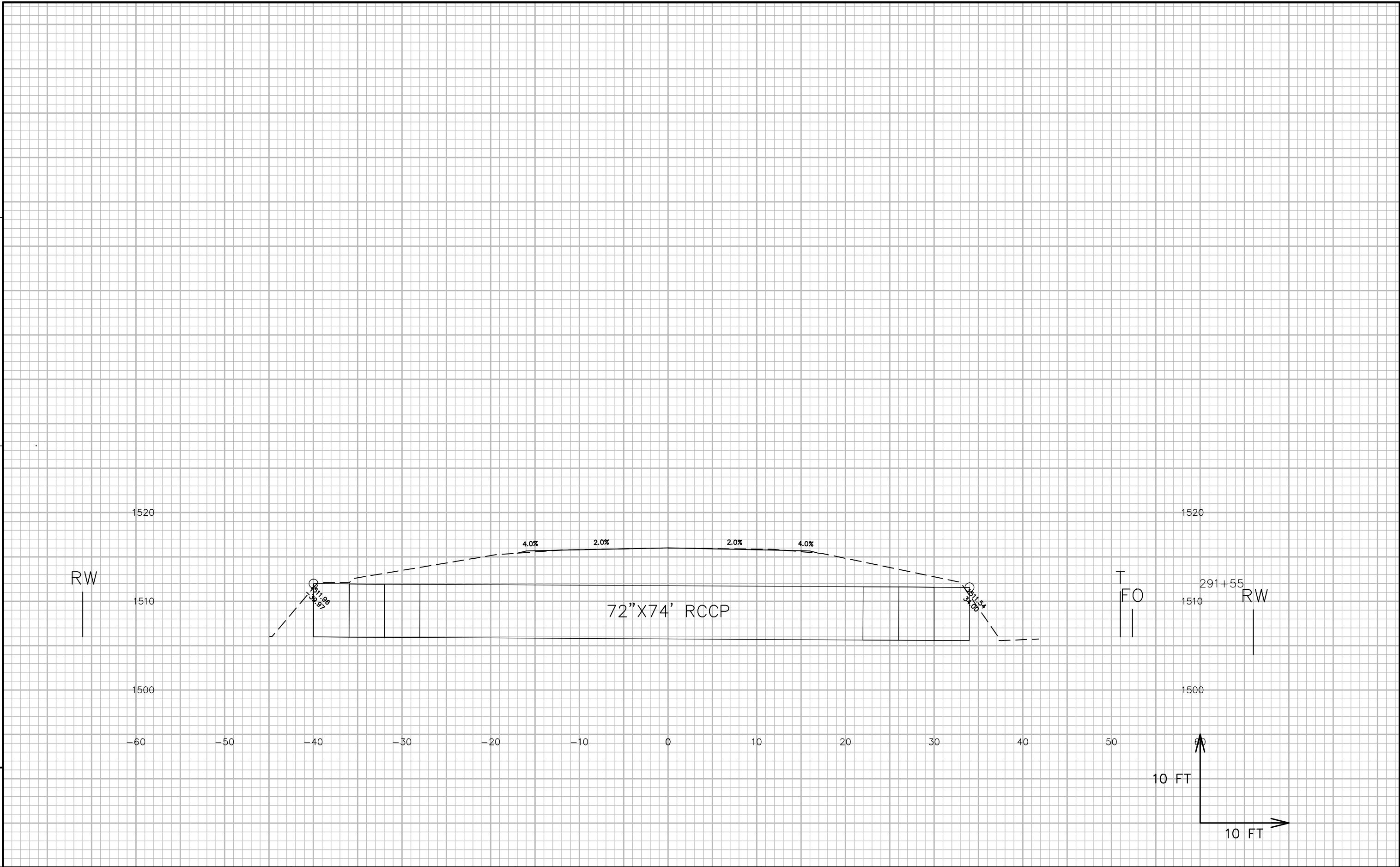
D9-52R;
2.250" Radius, 0.750" Border
Airplane; "PARK" C; "FALLS" C;
"AIRPORT" C;

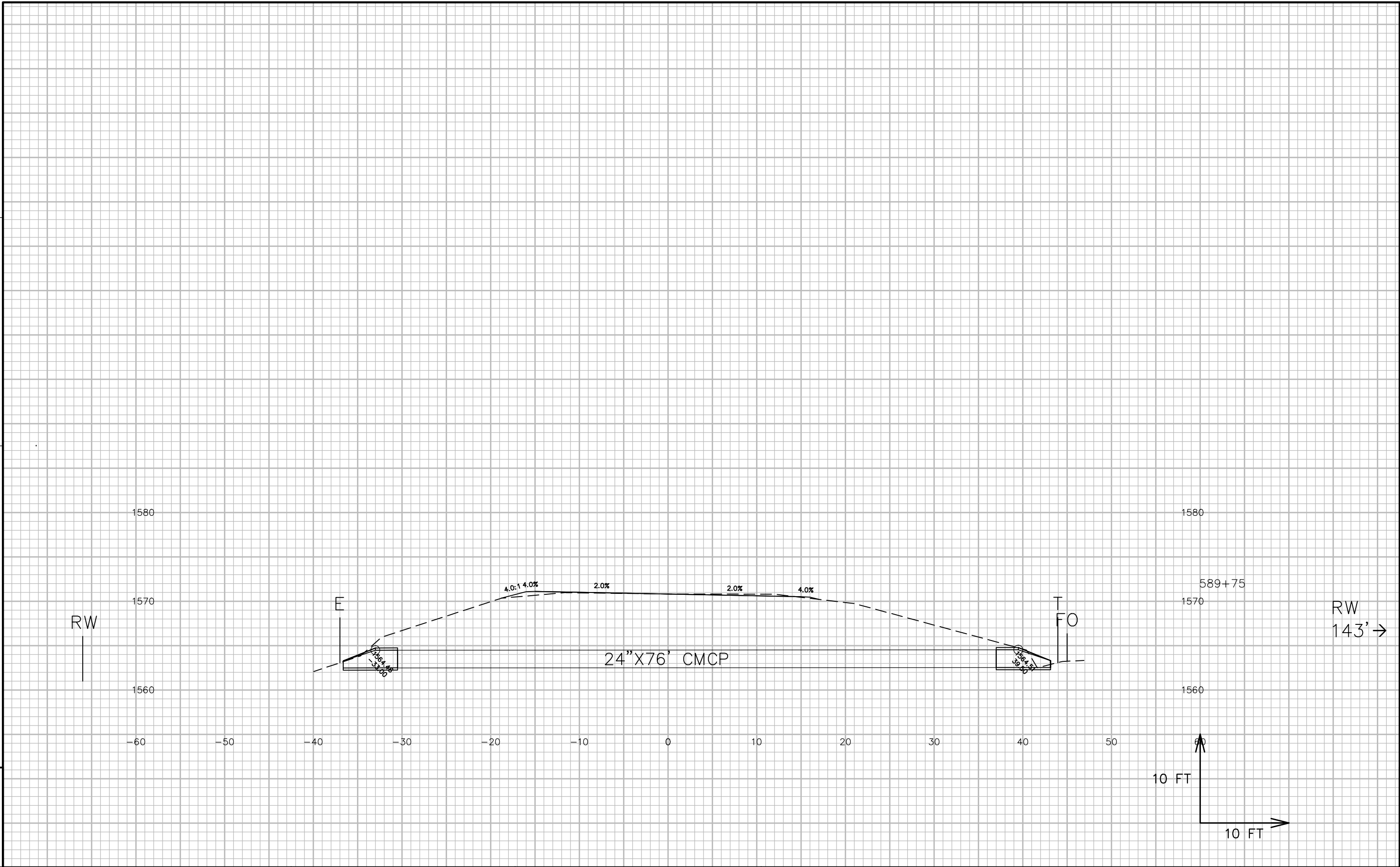


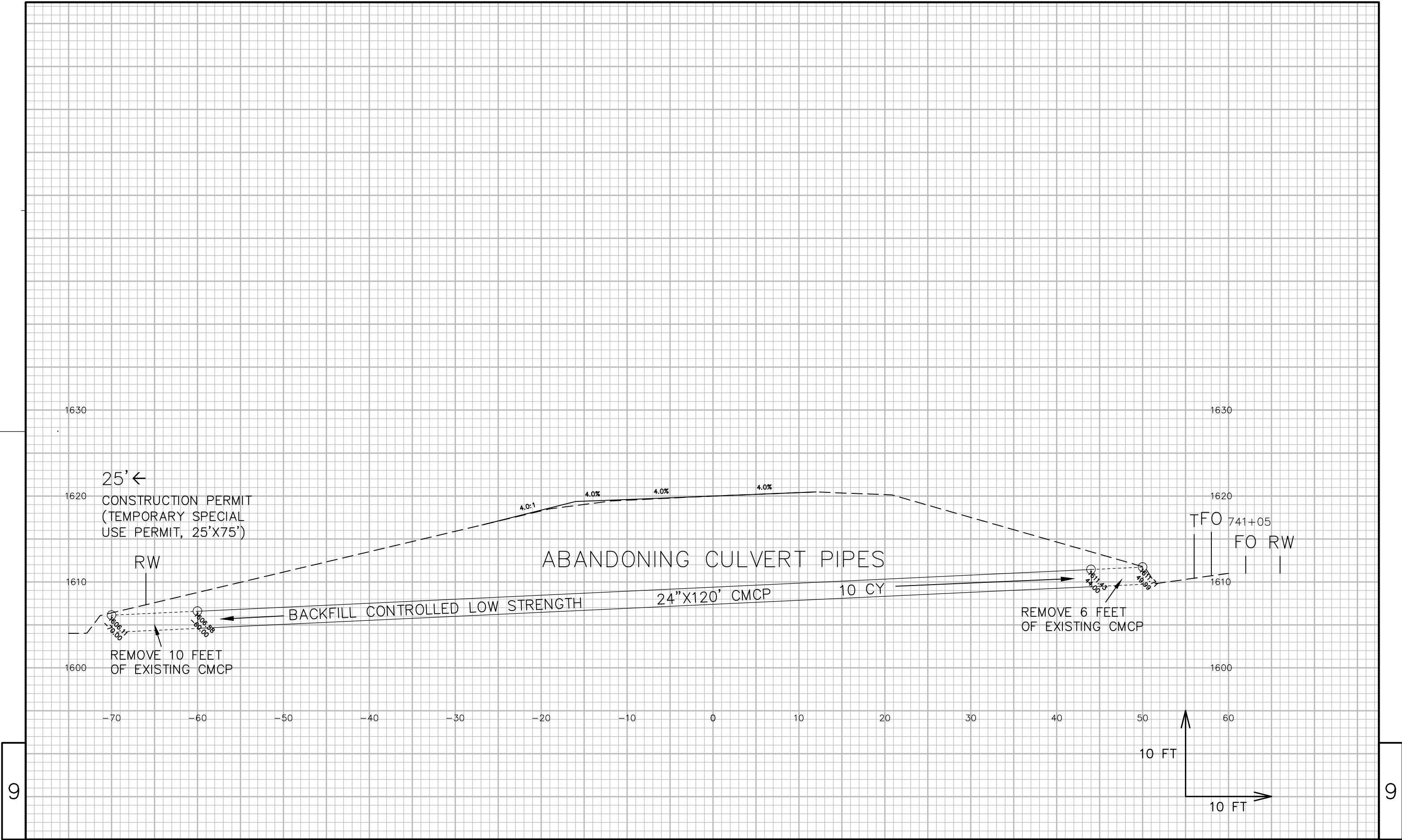
D9-52L;
1.500" Radius, 0.500" Border
Airplane; "PARK" C; "FALLS" C;
"AIRPORT" C;











Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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