MAY 2013

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. 6 Standard Detail Drawings

Section No. 7 Sign Plates Section No. 8 Structure Plans

TOTAL SHEETS = 104

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PREVENTATIVE MAINTENANCE PROJECT

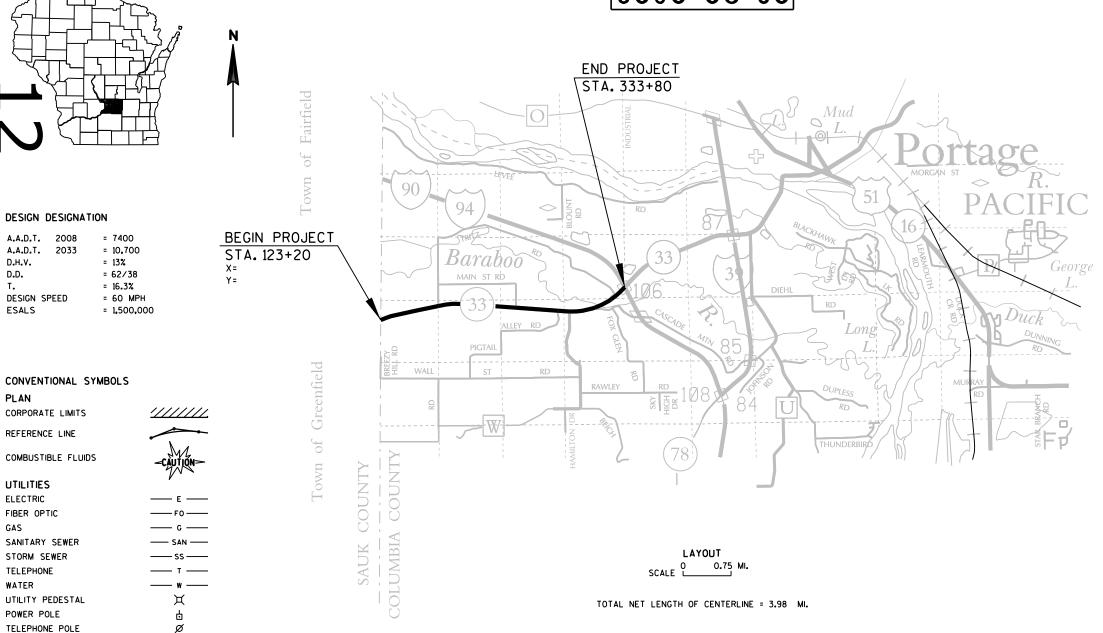
BARABOO - PORTAGE

WEST COUNTY LINE TO IH90/IH94

STH 33

COLUMBIA COUNTY

STATE PROJECT NUMBER 5090-03-60



FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5090-03-60

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor

C.O. Examiner

JEREMY HALL KURT JOHNSON Regional Supervisor

PPROVED FOR THE DEPARTMENT

DATE: 1/30/13

PLOT NAME :

BRANDAN HAGER

GENERAL NOTES

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

IF UTILITY CONFLICTS OCCUR DURING CONSTRUCTION FACILITIES ADJUSTMENTS WILL BE COORDINATED WITH CONTRACTOR. IF THERE ARE CONFLICTS WITH NEW BEAM GUARD, SIGNS, OR OTHER WORK UNDER PROJECT, THE CONTRACTOR WILL WORK AROUND THE UTILITY FACILITIES.

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 110 LB/SY/INCH.

APPLY TACK COAT TO MILLED SURFACES. THE RATE OF APPLICATION IS 0.025 GALLONS PER SQUARE YARD OR AS DIRECTED BY THE ENGINEER.

PRIOR TO PLACEMENT OF STEEL PLATE BEAM GUARD, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND

ALL EXISTING SIGNS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OPERATIONS REQUIRE THEIR REMOVAL OR UNLESS THE ENGINEER APPROVES THEIR REMOVAL.

THE LOCATION OF STOP LINES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, ALL SIGNS RELATING TO THIS OPERATION SHALL BE COVERED OR REMOVED AND FACILITY RESTORED TO NORMAL OPERATION.

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

PAVING LIMITS AT INTERSECTIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER AND SHALL HAVE BUTT JOINTS.

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

CURVE INFORMATION SHOWN ON THE PLANS HAS NOT BEEN VERIFIED BY A FIELD SURVEY. THE ENGINEER SHALL DETERMINE THE APPROPRIATE SUPER-ELEVATION AND RUN-OFF INFORMATION AND PROVIDE TO THE CONTRACTOR PRIOR TO PAVING.

REMOVE AND REPLACE ALL SIGNS AND POSTS WITH NEW SIGNS AND POSTS IN THE SAME GENERAL LOCATION UNLESS OTHERWISE NOTED ON THE PLANS.

HMA PAVEMENT OVERLAY WILL BE PLACED IN ONE LAYER FOR A TOTAL DEPTH OF 2".

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

BEAM GUARD WILL BE REPLACED THE SAME DAY IT IS REMOVED.

PIPE LENGTHS SIZE, AND LOCATION ARE TO BE VERIFIED PRIOR TO ORDERING MATERIAL. NO PIPE LENGTH SHALL EXCEED EXISTING LENGTH INCLUDING ENDWALLS UNLESS SPECIFIED.

EROSION CONTROL ITEMS ON THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

PROTECT WETLANDS AND OTHER WATERWAYS THAT ARE PRESENT WITHIN THE PROJECT LIMITS.

KEEP ALL EQUIPMENT AND MATERIALS OUT OF ENVIRONMENTALLY SENSITIVE AREAS. DO NOT PARK IN THESE AREAS.



Call 811 3 Work Days Before You Dig or Toll Free (800) 242-8511 Milwaukee Area (414) 259-1181 Hearing Impaired TDD (800) 542-2289 www.DiggersHotline.com

UTILITIES

Jason Hogan Alliant Energy - Electricity Suite 1000 4902 N Biltmore Lane Madison, Wi. 53718 (608) 458-4871 jasonhogan@alliantenergy.com

Steve Blado CenturyLink - Communication Line 333 N Front Street P.O. Box 4800 La Crosse, Wi. 54602 (608) 796-5543 steve.blado@centurytel.com

Robert Church Frontier Communications of WI LLC- Communications Line 118 Division Street Plymouth, Wi. 53073 (608) 837-1881 robert.church@ftr.com

DNR CONTACT

Cathy Bleser Wisconsin DNR, South Central Region 3911 Fish Hatchery Road Fitchburg, WI 53711 (608) 275-3308 (608) 220-3838 Cell

PROJECT NO:5090-03-60

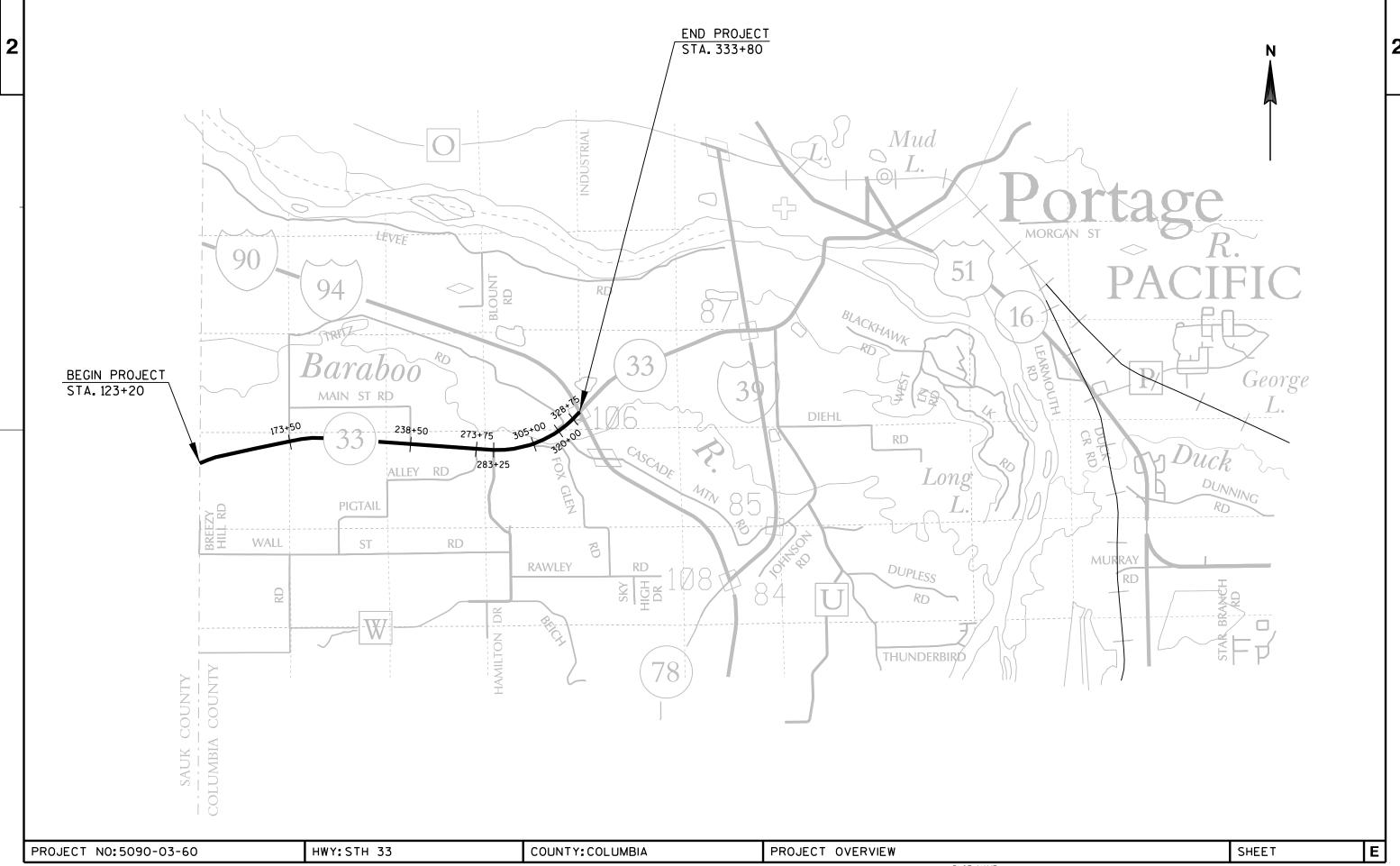
HWY: STH 33

COUNTY: COLUMBIA

GENERAL NOTES

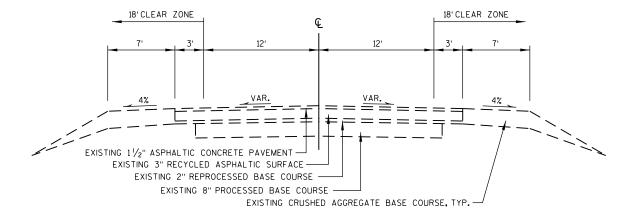
SHEET

FILE NAME: R:\Projects\d1_50900330\020101_gn.dgn PLOT DATE: 30-JAN-2013 09:28 PLOT BY : dotj3j PLOT NAME: PLOT SCALE: 200.000000:1.000000 WISDOT/CADDS SHEET 42



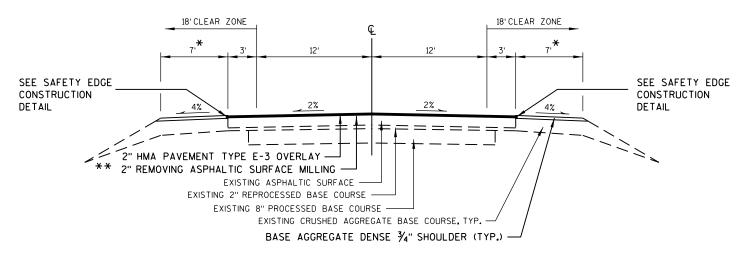
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2



TYPICAL EXISTING SECTION

STA. 123+20 - STA. 126+52 STA. 139+91 - STA. 176+34 STA. 194+16 - STA. 308+97

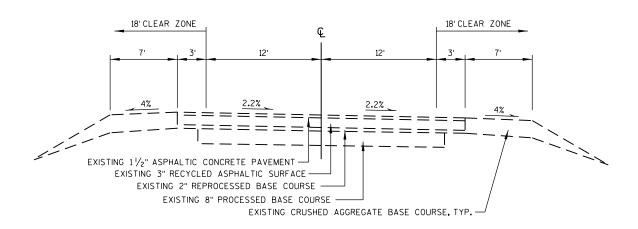


TYPICAL PROPOSED SECTION

STA. 123+20 - STA. 126+52 STA. 139+91 - STA. 176+34 STA. 194+16 - STA. 308+97 * SHOULDER REPAIR AT VARIOUS PLACES THROUGHOUT PROJECT

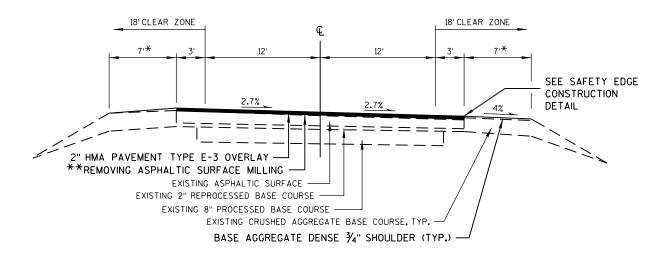
** 2" MILL DEPTH AT SHOULDER AND A 2% CROWNED CROSS-SLOPE WHERE SLOPE CORRECTION IS NEEDED

PROJECT NO: 5090-03-60 HWY: STH 33 COUNTY: COLUMBIA TYPICAL SECTIONS SHEET



TYPICAL EXISTING SECTION

STH 33 STA. 126+52 - STA. 139+91 STA. 176+34 - STA. 194+16



TYPICAL FINISHED SECTION

STH 33 STA.126+52 - STA.139+91

STA. 126+52 - STA. 139+91 STA. 176+34 - STA. 194+16

SUPERELEVATION TABLE 126+52 CURVE

NC 126+52 FLAT 127+05 RC 127+58 FS 127+82 FS 138+61 RC 138+85 FLAT 139+38 NC 139+91

SUPERELEVATION TABLE 176+34 CURVE

NC 176+34
FLAT 176+87
RC 177+40
FS 177+64
FS 192+86
RC 193+10
FLAT 193+63
NC 194+16

NOTE: SUPERELEVATION INFORMATION TO BE FIELD VERIFIED

* SHOULDER REPAIR AT VARIOUS PLACES
THROUGHOUT PROJECT

2" MILL DEPTH AT RT. SHOULDER.
1.1" MILL DEPTH AT CENTERLINE AND
0.2" MILL DEPTH AT LT. SHOULDER

PROJECT NO: 5090-03-60 HWY: STH 33 COUNTY: COLUMBIA TYPICAL SECTIONS SHEET E

FILE NAME: R:\Projects\d1_50900330\020301_ts.dgn

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PLOT BY: dotj3j

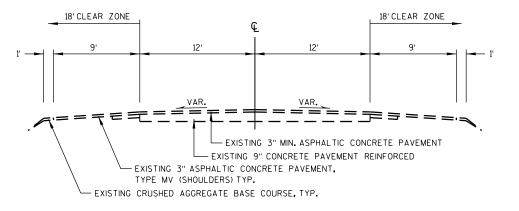
PLOT NAME:

PLOT SCALE: 200.000000:1.000000

WISDOT/CADDS SHEET 42

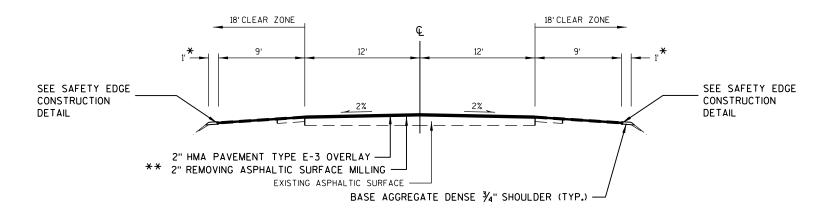
2





TYPICAL EXISTING SECTION

STH 33 STA. 310+76 - STA. 333+80



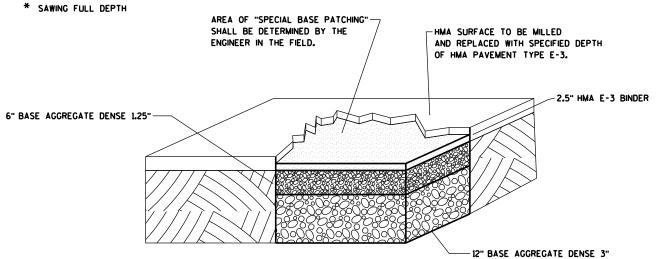
TYPICAL PROPOSED SECTION

STH 33 STA. 310+76 - STA. 333+80

- * SHOULDER REPAIR AT VARIOUS PLACES THROUGHOUT PROJECT
- ** 2" MILL DEPTH AT SHOULDER AND A 2% CROWNED CROSS-SLOPE WHERE SLOPE CORRECTION IS NEEDED

PROJECT NO: 5090-03-60 HWY: STH 33 COUNTY: COLUMBIA TYPICAL SECTIONS SHEET E

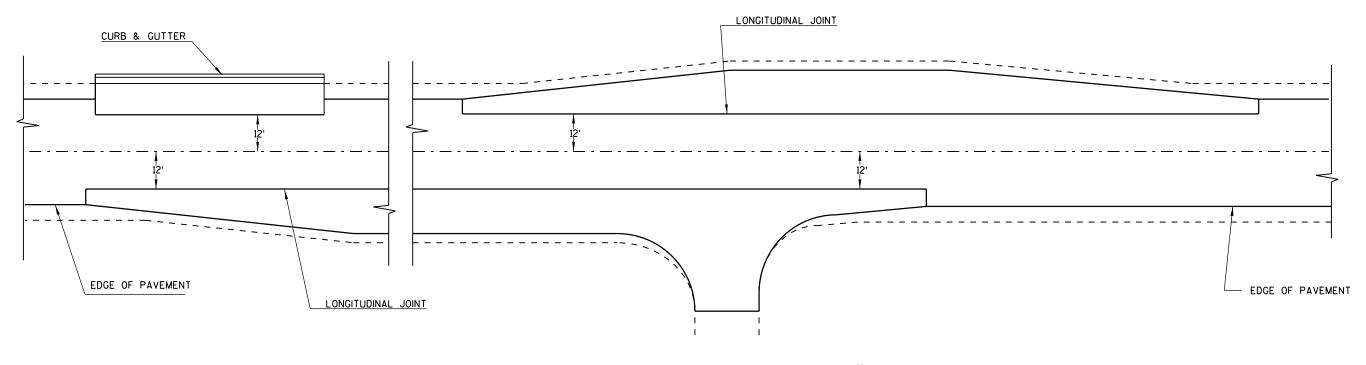
- * TO BE INCLUDED IN "SPECIAL BASE PATCHING" ITEM:
 - * 20.5" OF COMMON EXCAVATION
 - * 12" OF BASE AGGREGATE DENSE 3-INCH
 - * 6" OF BASE AGGREGATE DENSE 1.25-INCH
 - * 2.5" OF HMA BINDER MATERIAL



- EDGE OF SHOULDER PAVEMENT —EDGE OF SHOULDER PAVEMENT LIMITS AT APPROACH TO UNPAVED DRIVEWAY PLAN VIEW (PAVED SHOULDER ON HIGHWAY)

HMA PAVEMENT, TYPE E-3

RURAL DRIVEWAY INTERSECTION DETAIL



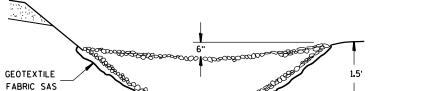
HMA LONGITUDINAL JOINT DETAIL *

* TO BE USED AT ALL INTERSECTIONS, BYPASS, PASSING LANE AND RURAL CURB SECTIONS

COUNTY: COLUMBIA PROJECT NO: 5090-03-60 HWY:STH 33 CONSTRUCTION DETAIL SHEET

PLOT NAME:

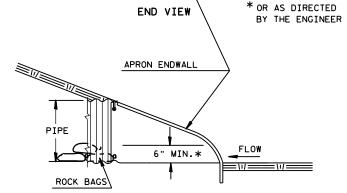




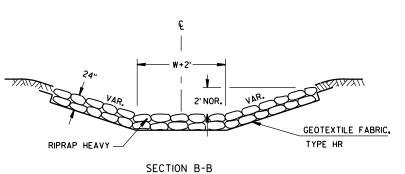
GEOTEXTILE FABRIC.

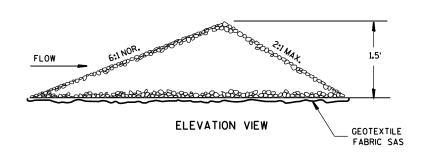
TYPE HR SECTION A-A

CROSS SECTIONAL VIEW



ROCK BAGS

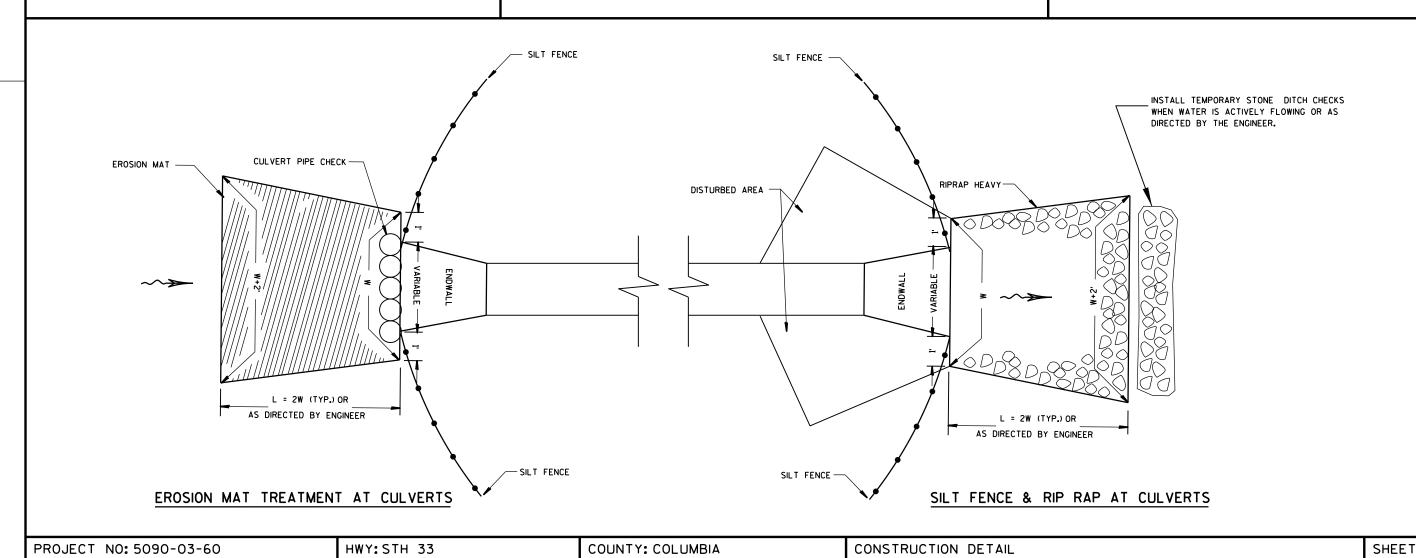




SIDE VIEW CULVERT PIPE CHECK

RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

TEMPORARY STONE DITCH CHECKS DETAIL

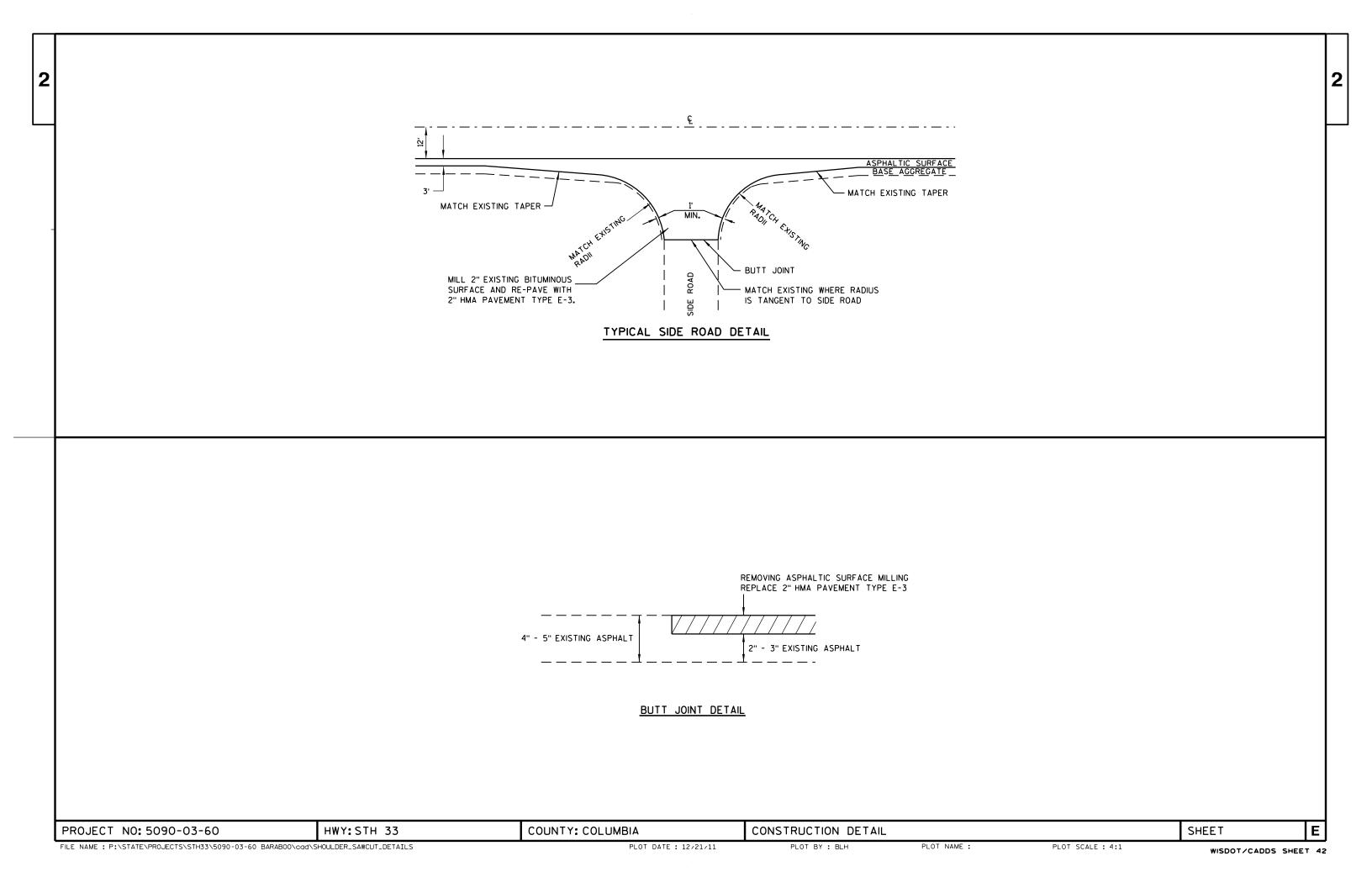


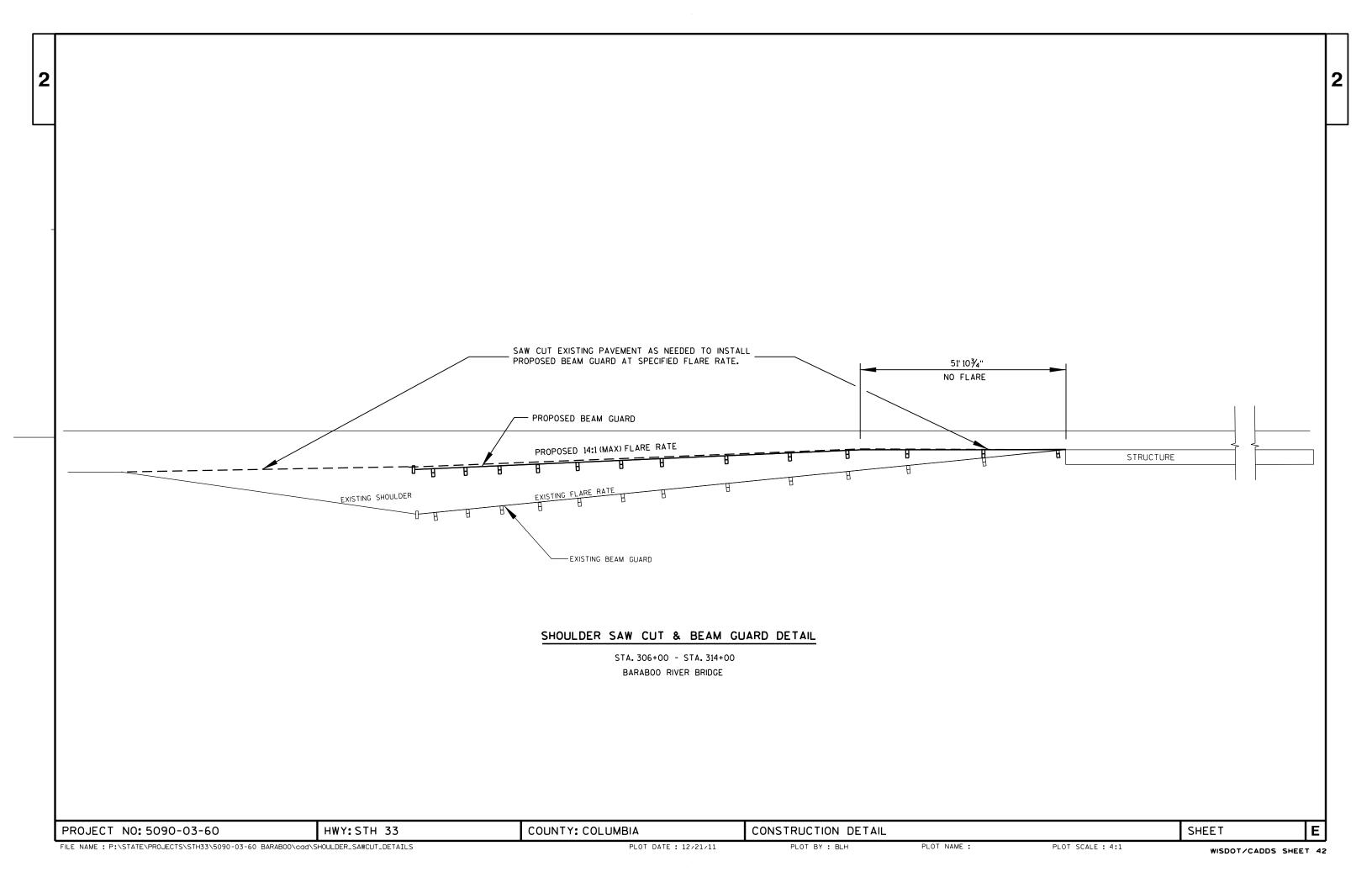
FILE NAME : P:\STATE\PROJECTS\STH33\5090-03-60 BARABOO\cad\SHOULDER_SAWCUT_DETAILS

PLOT DATE : 12/21/11

PLOT BY : BLH

PLOT NAME:





GENERAL NOTES

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

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

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.

ADDITIONAL WORK VEHICLES MAY BE USED BETWEEN V1 AND V2.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE AND OTHER FACTORS.

IF THERE IS A SIDE ROAD INTERSECTION BETWEEN THE FLAGGER STATIONS PROVIDE "ROAD WORK AHEAD" SIGNS ON THE SIDE ROAD 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 ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE "ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

THIS DRAWING SHALL BE USED FOR CENTERLINE AND SHOULDER MILLING OF RUMBLE STRIPS.

- (1) MAXIMUM DISTANCE BETWEEN FLAGGER STATIONS SHALL BE TWO MILES.
- FOR 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.

LEGEND

V 1 LEAD VEHICLE

TRAIL VEHICLE WITH TMA

TMA TRUCK-MOUNTED ATTENUATOR

SIGN ON PORTABLE SUPPORT

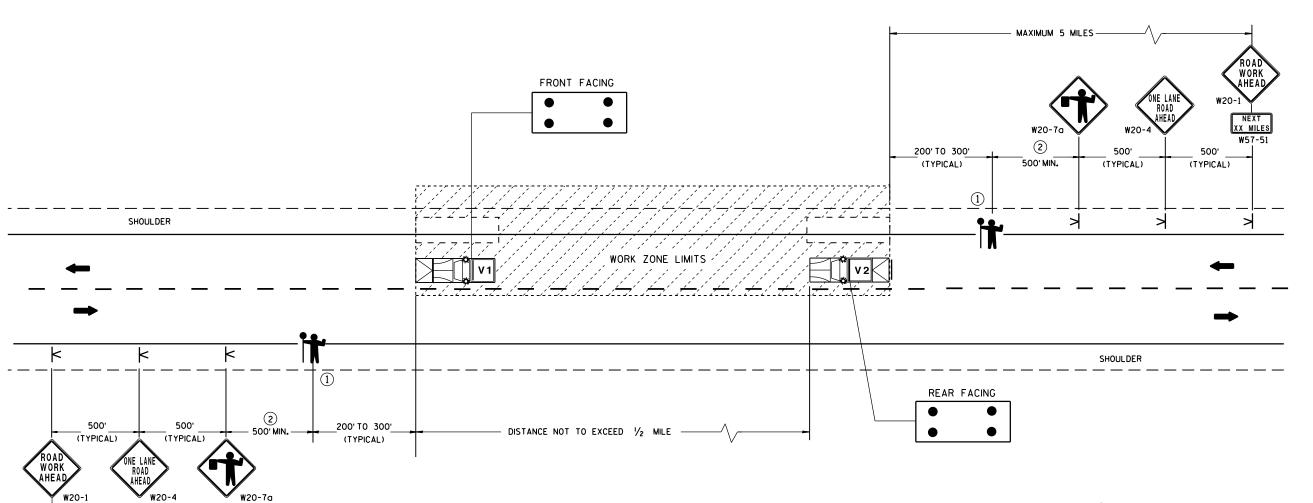
DIRECTION OF TRAVEL

FLASHING ARROW PANEL (CAUTION)



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

WORK AREA



MOVING RUMBLE MILLING **OPERATIONS TWO-LANE TWO-WAY ROADWAY**

(REPOSITION VEHICLES TO OUTER EDGE FOR SHOULDER MILLING)

BE PREPARED TO STOP

PLOT NAME :

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.

PROJECT NO: 5090-03-60

NEXT XX MILES

HWY: STH 33

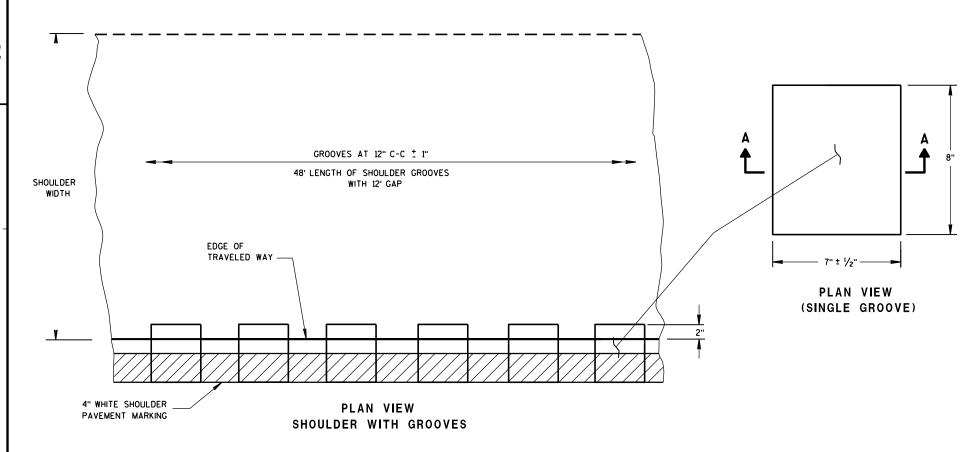
COUNTY: COLUMBIA

CONSTRUCTION DETAIL

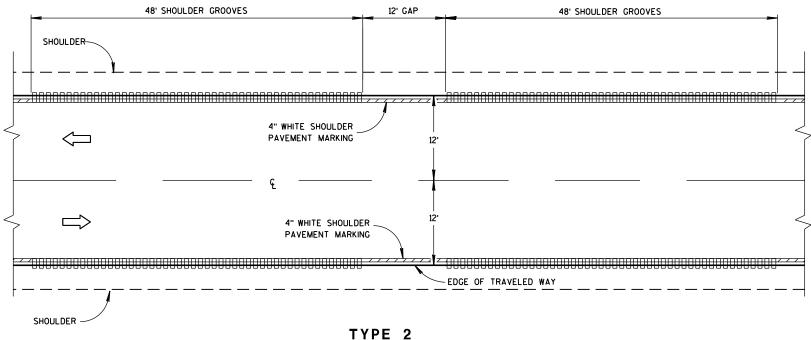
PLOT BY : BLH

SHEET

WISDOT/CADDS SHEET 42



PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



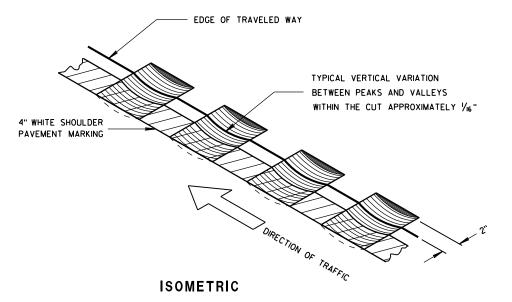
2-LANE SHOULDER RUMBLE STRIP

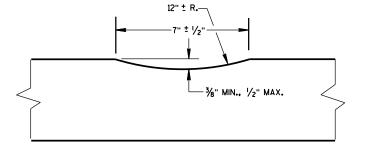
GENERAL NOTES

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

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

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





SECTION A-A

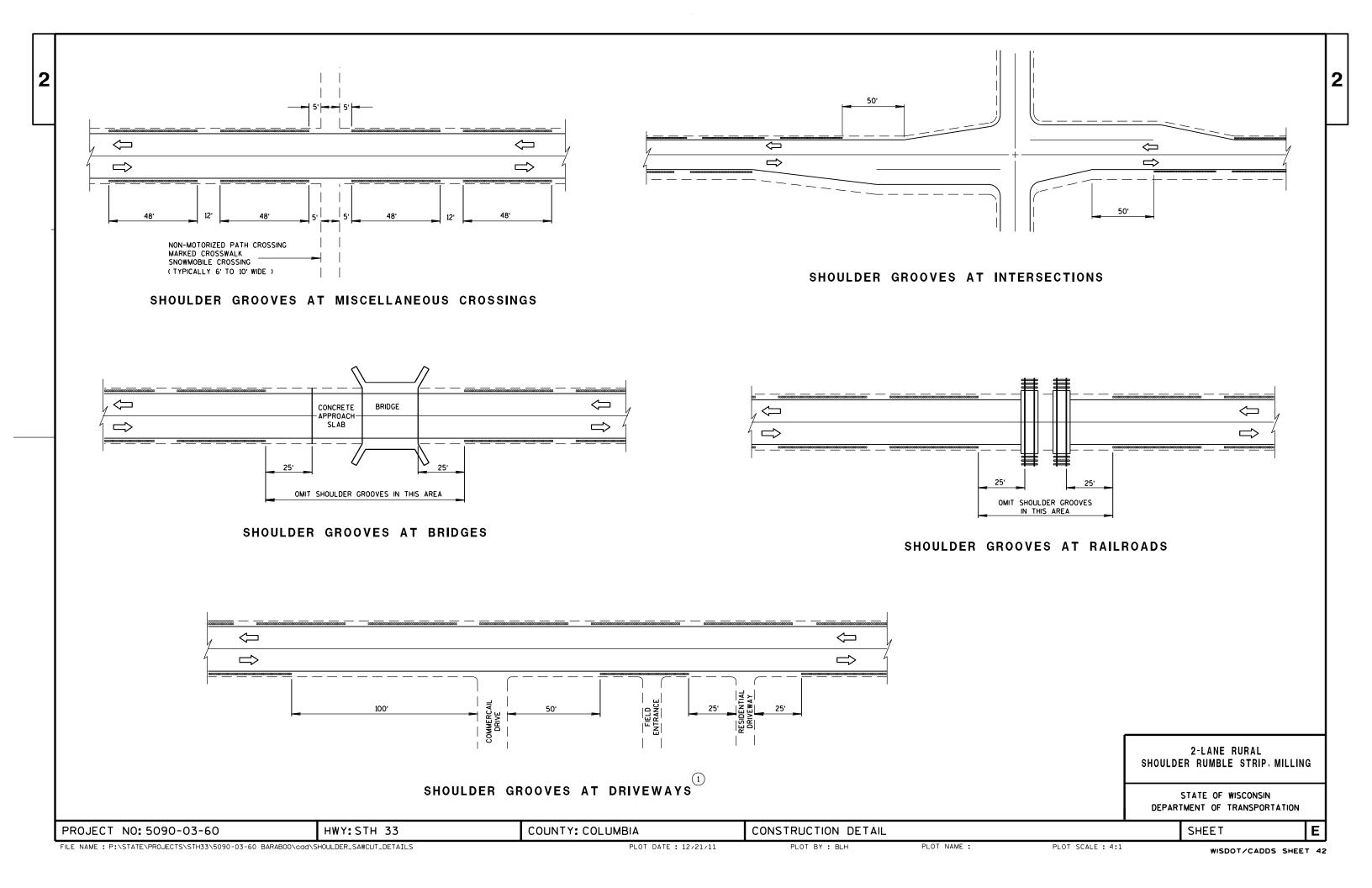
2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SHEET

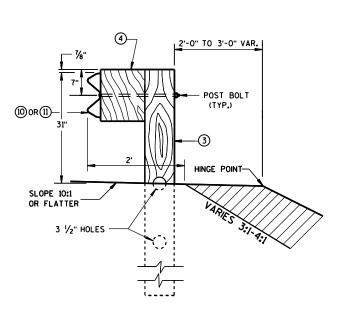
CONSTRUCTION DETAIL

PROJECT NO: 5090-03-60

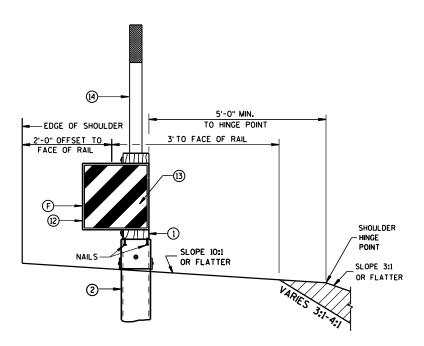


2

SEE SDD "MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)" FOR DETAILS



TYPICAL AT POST NOS. 3-9



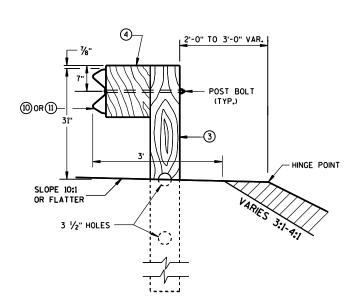
PLOT NAME :

TYPICAL AT POST NO. 1*

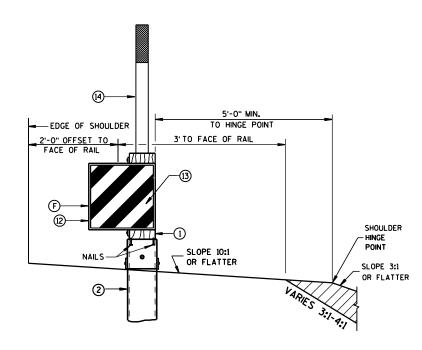
STA. 298+10 - STA. 301+04 RT.

2

SEE SDD "MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)" FOR DETAILS



TYPICAL AT POST NOS. 3-9



TYPICAL AT POST NO. 1*

 STA. 196+00 - STA. 196+50 LT.
 STA. 218+60 - STA. 218+87 LT.

 STA. 197+00 - STA. 197+50 RT.
 STA. 233+00 - STA. 235+40 LT.

 STA. 206+30 - STA. 206+80 LT.
 STA. 269+25 - STA. 273+32 LT.

 STA. 206+50 - STA. 207+00 RT.
 STA. 269+63 - STA. 272+94 RT.

PROJECT NO: 5090-03-60 HWY: STH 33 COUNTY: COLUMBIA CONSTRUCTION DETAIL SHEET E

PLOT NAME :

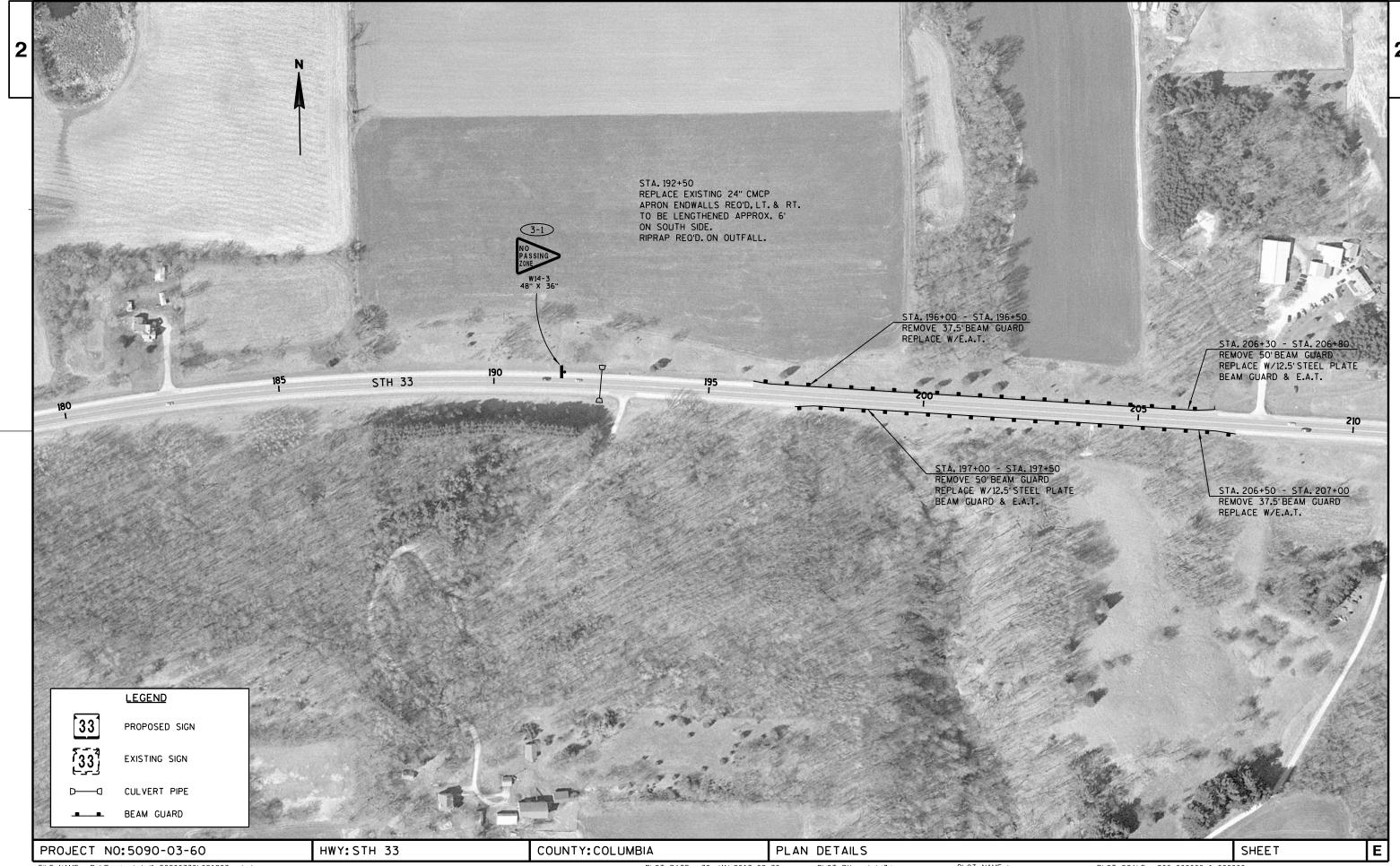
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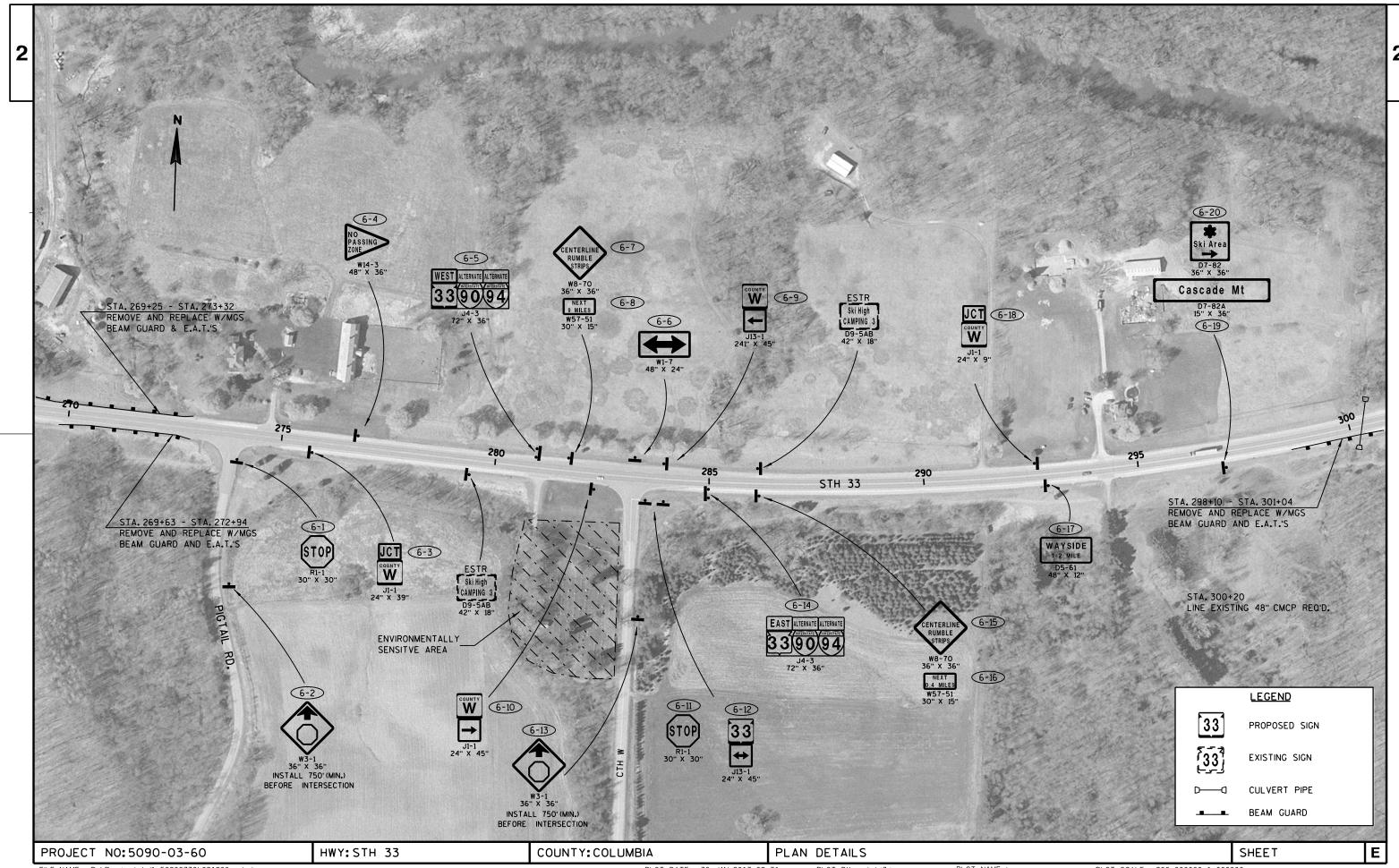
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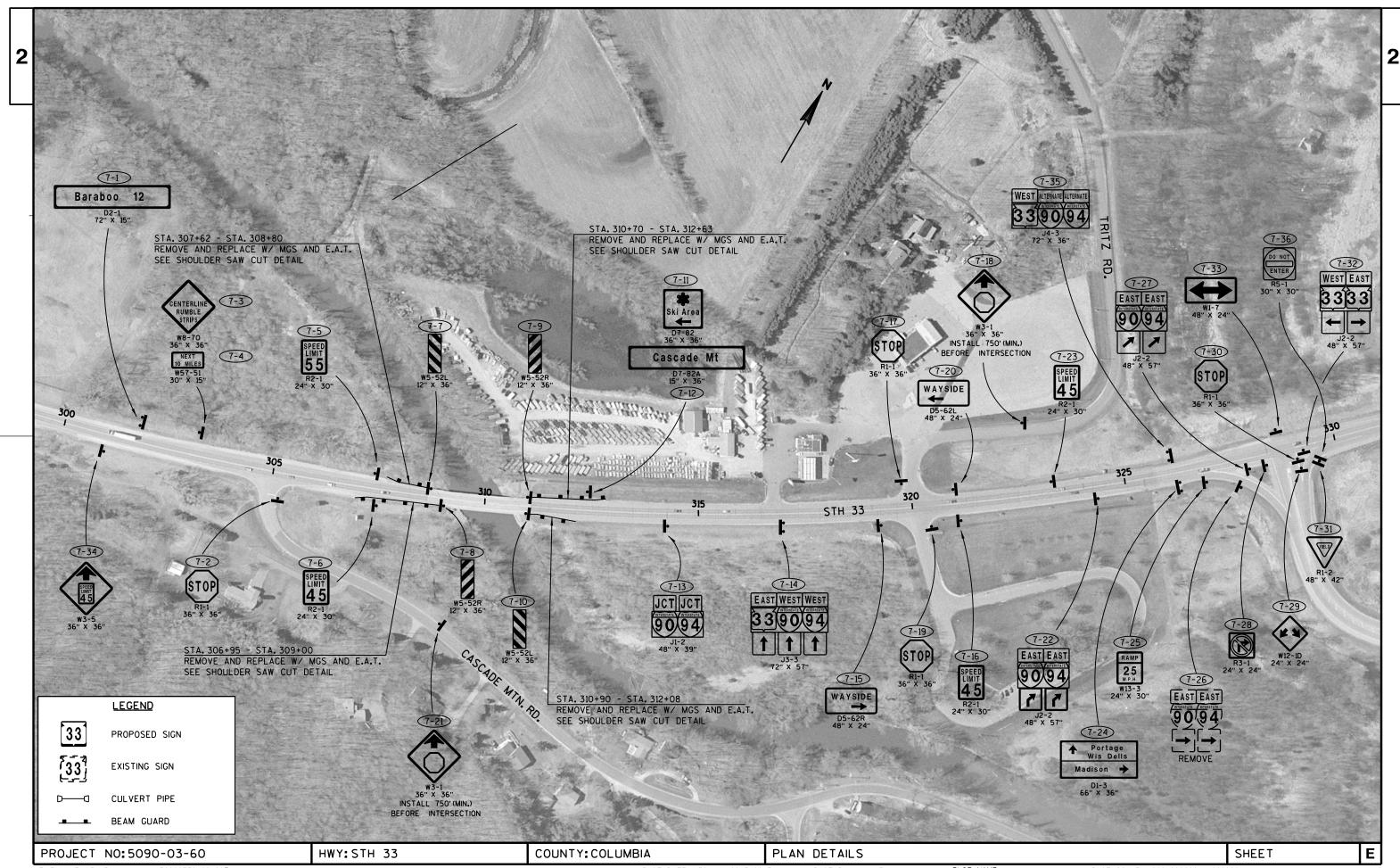
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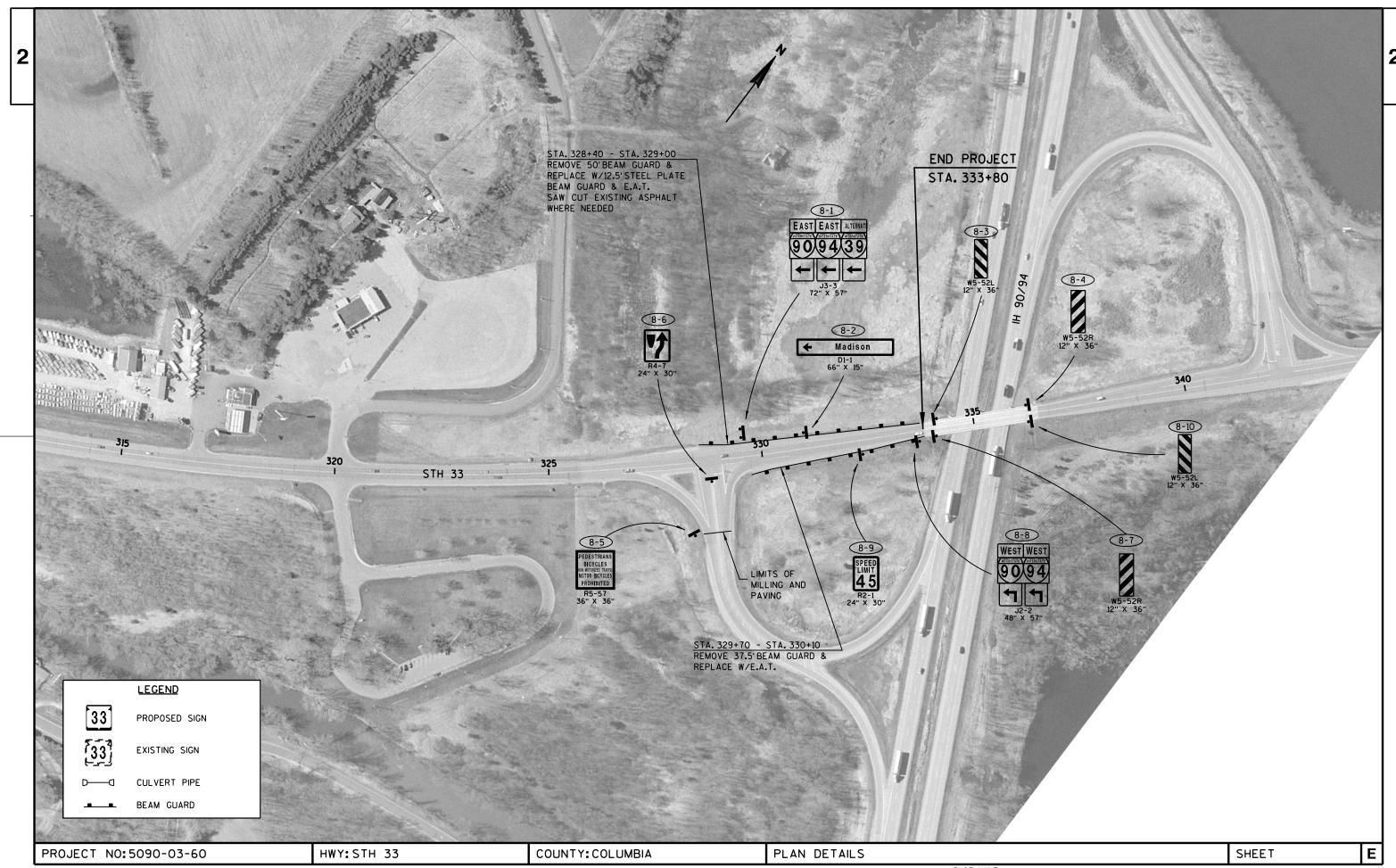
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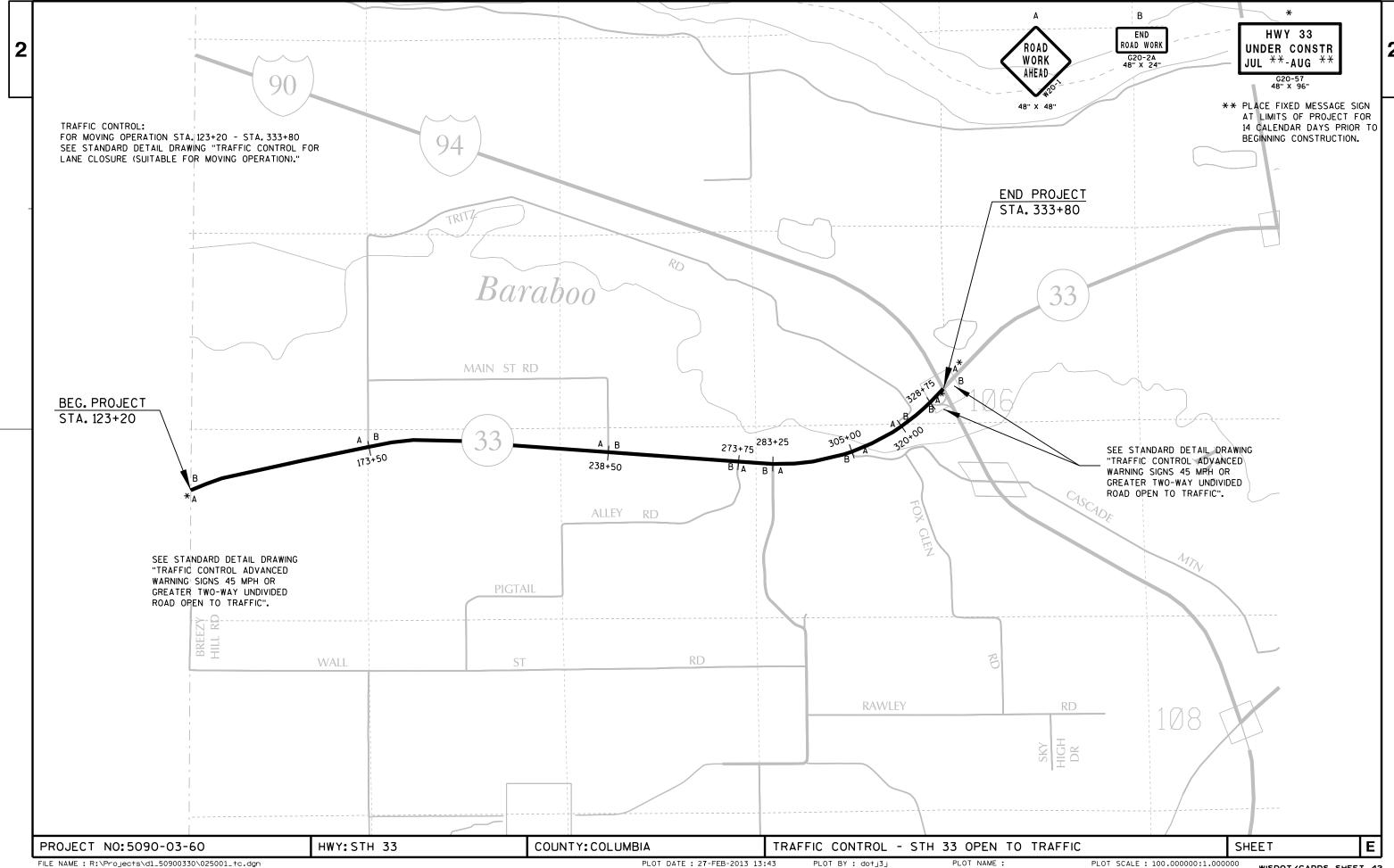
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BASE ITEMS

	TOTAL	6,280	422	1,700
	DRIVEWAYS AND FIELD ENTRANCES	300	-	-
123+20 - 333+80	MAINLINE	5,980	422	1,700
STATION - STATION	LOCATION	TON	STA	SY
		DENSE, 3/4"	SHOULDERS	PATCHING
		AGGREGATE	SHAPING	BASE
		BASE		SPECIAL
		305.0110	305.0500	SPV.0180.0

* ADDITIONAL QUANTITY LISTED ELSEWHERE IN THE PLANS

HMA PAVEMENT

	490.0200 SALVAGED	460.1103	455.0105	455.0605
	ASPHALTIC	HMA	ASPHALTIC	
	PAVEMENT	PAVEMENT	MATERIAL	TACK
	MILLING	TYPE E-3	PG58-28	COAT
LOCATION	SY	TON	TON	GAL
MAINLINE	81,300	9,000	495	2,040
SIDEROADS	4,100	450	25	110
DRIVEWAYS	600	60	4	20
TOTAL	86,000	9,510	524	2,170

RUMBLE STRIPS

		465.0425.S ASPHALT SHOULDER RUMBLE STRIP 2-LANE RURAL	465.0475.S ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL
STA - STA	LOCATION	LF	LF
123+20 - 304+00	CENTER LINE	-	15,900
123+20 - 304+00	LT	16,300	-
123+20 - 304+00	RT	16,500	-
	TOTAL	32,800	15,900

				*	*	*				**			**	
		203.0100	204.0185	522.0124	522.0136	522.0154	522.1024	522.1036	522.1054	633.5200	650.6000	SPV.0035.01	SPV.0180.01	
		REMOVING		CPRC	CPRC	CPRC	AEW	AEW	AEW	MARKERS	CONSTRUCTION	TEMPORARY	SPECIAL	
		SMALL PIPE	REMOVING	CLASS III	CLASS III	CLASS III	FOR CPRC	FOR CPRC	FOR CPRC	CULVERT	STAKING	STONE DITCH	BASE	
		CULVERTS	MASONRY	24-INCH	36-INCH	54-INCH	24-INCH	36-INCH	54-INCH	END	PIPE CULVERTS	CHECKS	PATCHING	
STA	LOCATION	EACH	CY	LF	LF	LF	EACH	EACH	EACH	EACH	EACH	CY	SY	REMARKS
174+50	MAINLINE	1	17	-	79	-	-	2	-	2	1	9	40	EXTEND 5' TO SOUTH AND 8' TO NORTH
192+50	MAINLINE	1	-	71	-	-	2	-	-	2	1	8	40	EXTEND 6' TO SOUTH
237+10	MAINLINE	1	10	-	-	70	-	_	2	2	1	12	40	EXTEND 5' TO SOUTH AND 8' TO NORTH

CULVERTS

LINING CULVERTS

				CULVERT	520.0700.S	633.5200	
				PIPE	CULVERT		
				FULL	PIPE	MARKERS	
				FLOW	LINERS	CULVERT	
				CAPACITY	48-INCH	END	
STATION	LOCATION	TYPE	SLOPE	CFS	LF	EACH	
300+20	MAINLINE	CMP	4.7%	194	116	2	

* ADDITIONAL QUANTITY LISTED ELSEWHERE IN THE PLANS

BEAM GUARD REPLACEMENT

			204.0165	614.0010 BARRIER SYSTEM	614.0305 STEEL PLATE	614.0370 STEEL PLATE	614.2300 MGS	614.2500 MGS	614.2610 MGS	690.0150
			REMOVING	GRADING SHAPING	BEAM GUARD	BEAM GUARD	GUARDRAIL	THRIE BEAM	GUARDRAIL	SAWING
		(GUARDRA I L	FINISHING	CLASS A	EAT	3	TRANSITION	TERMINAL EAT	ASPHALT
STA	- STA		LF	EACH	LF	EACH	LF	LF	EACH	LF
196+00	- 206+80	LT	88	2	12.5	2	-	-	-	50
197+00	- 207+00	RT	88	2	12.5	2	-	-	-	50
218+60	- 235+40	LT	250	2	175	2	-	-	-	50
269+25	- 273+32	LT	380	1	-	-	300	-	2	50
269+63	- 272+94	RT	310	1	-	-	225	-	2	50
298+10	- 301+04	RT	104	1	-	-	187.5	-	2	_
306+95	- 309+00	RT	209	1	_	_	112.5	39.4	1	210
307+62	- 308+80	LT	109	1	-	-	25	39.4	1	120
310+70	- 312+63	LT	194	1	-	-	100	39.4	1	200
310+90	- 312+08	RT	109	1	-	-	25	39.4	1	120
328+40	- 334+00	LT	50	1	12.5	1	-	-	-	25
329+70	- 334+00	RT	38	1	_	1	-	_	-	25
	TO	TAL	1929	15	212.5	8	975	157.6	10	950

PLOT NAME :

PROJECT NO:5090-03-60 HWY:STH 33 COUNTY:COLUMBIA MISCELLANEOUS QUANTITIES SHEET

^{*} PIPE LENGTHS TO BE FIELD VERIFIED PRIOR TO ORDERING

^{**} ADDITIONAL QUANTITY LISTED ELSEWHERE IN THE PLANS

				BORROW	SALVAGED	CEDTII IZED	SEEDING MIXTURE	
				EXCAVATION	TOPSOIL	FERTILIZER TYPE B	No. 30	- MULCHING
STA	_	STA	LOCATION	CY	SY	CWT	LB	SY
OIA		OIN	LOOMING	01	- 01	OWI		<u> </u>
196+00	-	206+80	LT	136	95	0.09	2.28	95
197+00	_	207+00	RT	136	95	0.09	2.28	95
218+60	_	235+40	LT	388	271	0.26	6.50	271
269+25	-	273+32	LT	589	412	0.39	9.89	412
269+63	-	272+94	RT	481	336	0.32	8.06	336
298+10	-	301+04	RT	161	113	0.11	2.71	113
306+95	-	309+00	RT	324	227	0.22	5.45	227
307+62	-	308+80	LT	169	118	0.11	2.83	118
310+70	-	312+63	LT	301	210	0.20	5.04	210
310+90	-	312+08	RT	169	118	0.11	2.83	118
328+40	-	334+00	LT	78	53	0.05	1.27	53
329+70	-	334+00	RT	69	52	0.05	1.25	52
			Total	3000	2100	2	50	2100

^{*} ITEMS AND QUANTITIES USED FOR BID INFORMATION ONLY

EROSION CONTROL

	606.0300	625.0500	628.1504	628.1520	628.1905	628.1910	628.2002	628.7555	629.0210	630.0130	645.0120
						MOBILIZATION					
					MOBILIZATION	EMERGENCY	EMAT	CULVERT		SEEDING	GEOTEXTILE
	RIPRAP	SALVAGED	SILT	SILT FENCE	EROSION	EROSION	CLASS I	PIPE	FERTILIZER	MIXTURE	FABRIC
	HEAVY	TOPSOIL	FENCE	MAINTENANCE	CONTROL	CONTROL	TYPE A	CHECKS	TYPE B	NO. 30	TYPE HR
LOCATION	CY	SY	LF	LF	EACH	EACH	SY	EACH	CWT	LB	SY
CULVERT AREAS	52	220	150	75	-	-	220	17	0.2	4	80
BEAM GUARD AREAS	-	-	3,130	1,565	-	-	-	-	-	-	-
MILLINGS STOCKPILE	-	-	1,500	750	-	-	-	-	-	-	-
UNDISTRIBUTED	13	55	1,200	600	1	1	55	5	0.1	1	20
TOTAL:	65	275	5,980	2,990	1	1	275	22	0.3	5	100

PROJECT NO:5090-03-60 HWY:STH 33 COUNTY:COLUMBIA MISCELLANEOUS QUANTITIES SHEET E

	0 / 1002111221	
-	J-ASSEMBLY	
-	J-ASSEMBLY	
_	LASSEMBLY	

638.3000

REMOVING

SMALL

SIGN

SIGN _NUMBER	LOCATION	SIGN CODE	SIGN W x H	MESSAGE	634.0614 POSTS WOOD 4X6 INCH 14 FT EACH	634.0616 POSTS WOOD 4X6 INCH 16 FT EACH	634.0618 POSTS WOOD 4X6 INCH 18 FT EACH	634.0620 POSTS WOOD 4X6 INCH 20 FT EACH	637.0202 SIGNS REFLECTIVE TYPE II SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS	SIG NUME
1-1 1-2	125+50 LT 145+50 RT	W14-3 W14-3	48 x 36 48 x 36	NO PASSING ZONE NO PASSING ZONE	-	1 1	-	-	6.00 6.00	-	1 1	1 1		7-1
1-3	126+00 RT	W8-70	36 x 36	CENTERLINE RUMBLE STRIPS	-	-	1	-	9.00	-	-	-		
1-4 1-5	126+00 RT 125+50 LT	W57-51 I55-56	36 x 18 30 x 36	NEXT 4 MILES ADOPT A HIGHWAY	-	-	_	-	4.50	<u>-</u> 1	-	-	POSTED WITH 1-3 POSTED WITH 1-1	
2-1	173+20 LT	W3-1	36 x 36	STOP AHEAD	-	-	1	-	9.00	-	1	1	1 OSTED WITH 1-1	
<u>2-2</u> 3-1	173+20 LT 192+00 LT	R1-1 W14-3	30 x 30 48 x 36	STOP NO PASSING ZONE	-	1 1	-	-	5.18 6.00	-	<u>1</u>	<u> </u>		
4-1	235+30 RT	W14-3	48 x 36	NO PASSING ZONE	-	1	-	-	6.00	-	1	1		
4-2 4-3	238+00 LT 238+00 LT	R1-1 W3-1	30 x 30 36 x 36	STOP STOP AHEAD	-	1	<u>-</u> 1	-	5.18 9.00	-	1 1	1		
6-1	274+10 RT	R1-1	30 x 30	STOP	-	1	-	-	5.18	-	1	1		7-1:
6-2 6-3	274+10 RT 275+50 RT	W3-1 J1-1	36 x 36 24 x 39	STOP AHEAD ROUTE MARKER ASSEMBLY	-	<u>-</u> 1	1	-	9.00 6.50	-	1 1	1 1	J-ASSEMBLY	7-1
0-3	273130101	M2-1	21 x 15	JCT	-	-	-	-	-	-	-	-	J-ASSEMBLY	7-1 7-1
6.4	076 L 00 L T	M1-5A	24 x 24	CTHW	-	-	-	-		-	<u>-</u> 1	-	J-ASSEMBLY	7-1
6-4 6-5	276+20 LT 281+00 LT	W14-3 J4-3	48 x 36 72 x 36	NO PASSING ZONE REASSURANCE MARKER	-	1	1	-	6.00 18.00	-	1 2	1 2	J-ASSEMBLY	7-2
		M3-4	24 x 12	WEST	-	-	-	-	-	-	-	-	J-ASSEMBLY	7-2 7-2
		M1-6 MB4-1	24 x 24 24 x 12	STH 33 ALTERNATE	-	-	-	-	-	-	-	-	J-ASSEMBLY J-ASSEMBLY	1-2.
		MB1-1	24 x 24	IH 90	-	-	-	-	-	-	-	-	J-ASSEMBLY	
		MB4-1 MB1-1	24 x 12 24 x 24	ALTERNATE IH 94	-	-	-	-	-	-	-	-	J-ASSEMBLY J-ASSEMBLY	
6-6	283+50 LT	W1-7	48 x 24	TWO-DIRECTION ARROW	-	1	-	-	8.00	-	- -	-	J-AGGEWIDLT	
6-7	279+00 LT	W8-70	36 x 36	CENTERLINE RUMBLE STRIPS	-	-	1	-	9.00	-	-	-	DOOTED WITH 0.7	
6-8 6-9	279+00 LT 284+00 LT	W57-51 J13-1	36 x 18 24 x 45	NEXT 9 MILES ROUTE MARKER ASSEMBLY	-	<u>-</u> 1	-	-	4.50 7.50	-	- 1	- 1	POSTED WITH 6-7 J-ASSEMBLY	7-2: 7-2:
		M1-5A	24 x 24	CTH W	-	-	-	-	-	-	-	-	J-ASSEMBLY	7-2
6-10	283+50 RT	M6-1 J13-1	21 x 21 24 x 45	LEFT ARROW ROUTE MARKER ASSEMBLY	-	<u>-</u> 1	-	-	7.50	-	- 1	- 1	J-ASSEMBLY J-ASSEMBLY	7-2
0-10	203130111	M1-5A	24 x 24	CTHW	=	-	-	-	7.50 -	-	-	-	J-ASSEMBLY	7-2
C 11	204+00 DT	M6-1	21 x 21	RIGHT ARROW	-	<u>-</u>	-	-	- E 40	-	<u>-</u> 4	-	J-ASSEMBLY	
6-11 6-12	284+00 RT 284+00 RT	R1-1 J13-1	30 x 30 24 x 45	STOP ROUTE MARKER ASSEMBLY	-	1	-	-	5.18 7.50	-	1 1	1 1	J-ASSEMBLY	
		M1-6	24 x 24	STH 33	-	-	-	-	-	-	-	-	J-ASSEMBLY	
6-13	284+00 RT	M6-4 W3-1	21 x 21 36 x 36	TWO-DIRECTION ARROW STOP AHEAD	-	-	<u>-</u> 1	-	9.00	-	<u>-</u> 1	- 1	J-ASSEMBLY	
6-14	285+00 RT	J4-3	72 x 36	REASSURANCE MARKER	-	1	i	-	18.00	-	i	i	J-ASSEMBLY	7-2
		M3-2 M1-6	24 x 12 24 x 24	EAST STH 33	-	-	-	-	-	-	=	-	J-ASSEMBLY J-ASSEMBLY	7-2 7-3
		MB4-1	24 x 12	ALTERNATE	-	-	-	-	-	-	-	-	J-ASSEMBLY	7-3
		MB1-1	24 x 24	IH 90	-	-	-	-	-	-	-	-	J-ASSEMBLY	7-3
		MB4-1 MB1-1	24 x 12 24 x 24	ALTERNATE IH 94	-	-	-	-	-	-	<u>-</u>	-	J-ASSEMBLY J-ASSEMBLY	
6-15	286+00 RT	W8-70	36 x 36	CENTERLINE RUMBLE STRIPS	=	-	1	-	9.00	-	-	-		
6-16 6-17	286+00 RT 293+50 RT	W57-51 D5-61	36 x 18 48 x 24	NEXT 0.4 MILES WAYSIDE 1/2 MILE	-	- 1	-	-	4.50 8.00	-	- 1	- 1	POSTED WITH 6-15	
6-18	293+50 LT	J1-1	24 x 39	ROUTE MARKER ASSEMBLY	=	1	-	-	6.50	-	i	1	J-ASSEMBLY	
		M2-1 M1-5A	21 x 15	JCT CTH W	-	-	-	-	-	-	-	-	J-ASSEMBLY	7-3
6-19	297+00 RT	D7-82	24 x 24 36 x 36	SKIAREA	-	-	1	-	9.00	-	<u>-</u> 1	- 1	J-ASSEMBLY	7-3
6-20	297+00 RT	D7-82A	36 x 15	CASCADE MT	-	-	<u>-</u> 1	-	3.75	-	1	-	POSTED WITH 6-19	7-3
7-1 7-2	302+30 LT 305+00 RT	D2-1 R1-1	72 x 15 30 x 30	BARABOO 12 STOP	_	1	-	-	7.50 5.18	-	1 1	2 1		
7-3	303+00 LT	W8-70	36 x 36	CENTERLINE RUMBLE STRIPS	-	-	1	-	9.00	-	=	-		
7 - 4 7 - 5	303+00 LT 307+50 LT	W57-51 R2-1	36 x 18 24 x 30	NEXT 10 MILES SPEED LIMIT 55	-	- 1	-	-	4.50 5.00	-	- 1	- 1	POSTED WITH 7-3	
7-6	307+50 RT	R2-1	24 x 30	SPEED LIMIT 45	-	1	-	-	5.00	-	i	i		
7-7 7-8	309+00 LT 309+00 RT	W5-52L W5-52R		BRIDGE WARNING HATCH	1	-	-	-	3.00 3.00	-	1	1		7-30
7 - 6 7-9	311+00 LT	W5-52R W5-52R		BRIDGE WARNING HATCH BRIDGE WARNING HATCH	1	-	-	-	3.00	-	1	1		8-1
7-10	311+00 RT	W5-52L	12 x 36	BRIDGE WARNING HATCH	1	-	-	-	3.00	-	1	1		
7-11 7-12	312+20 LT 312+20 LT	D7-82 D7-82A	36 x 36 36 x 15	SKI AREA CASCADE MT	-	-	1 -	-	9.00 3.75	-	1 1	1 -	POSTED WITH 7-11	
7-13	314+30 RT	J1-2	48 x 39	ROUTE MARKER ASSEMBLY	-	1	-	-	13.00	-	1	1	J-ASSEMBLY	
		MB2-1 MB1-1	21 x 15 24 x 24	JCT IH 90	-	-	_	-	-	_	-	-	J-ASSEMBLY J-ASSEMBLY	
		MB2-1	24 x 24 21 x 15	JCT	-	-	-	-	-	-	-	-	J-ASSEMBLY	
		MB1-1	24 x 24	IH 94	<u>-</u> - 4	23	<u>-</u> 1	<u>-</u> 0	301.40	<u>-</u> 1	 35	32	J-ASSEMBLY	
				PAGE 1TOTA	- 4	23	'	U	JU 1.4U	1	งง	JZ		8-2 8-3 8-4

PERMANENT SIGNING

SIGN	LOCATION	SIGN	SIGN	MEGGAGE	14 FT	16 FT	18 FT	20 FT	TYPE II	TYPE II	TYPE II	SUPPORTS	DEMARKS
NUMBER		CODE	W x H	MESSAGE ACCEMBLY	EACH	EACH	EACH	EACH	SF 20.50	EACH	EACH	EACH	REMARKS
7-14	317+00 RT	J2-3	72 x 57	ROUTE MARKER ASSEMBLY	-	-	-	2	28.50	-	1	2	J-ASSEMBLY
		M3-2 M1-6	24 x 12 24 x 24	EAST STH 33	-	-	-	-	-	-	-	-	J-ASSEMBLY
				AHEAD ARROW	-	-	-	-	-	-	-	-	J-ASSEMBLY J-ASSEMBLY
		M6-1 MB3-4	21 x 21 24 x 12	WEST	-	_	-	_	_	-	-	-	J-ASSEMBLY
		MB1-1	24 x 12	IH 90	_		_	-	_	-	_	_	J-ASSEMBLY
		MB6-1	21 x 21	AHEAD ARROW	_	_	_	_		_	_	_	J-ASSEMBLY
		MB3-4	24 x 12	WEST	-	_	_	_	_	_	-	<u>-</u>	J-ASSEMBLY
		MB1-1	24 x 24	IH 94	_	_	_	_	_	_	_	_	J-ASSEMBLY
		MB6-1	21 x 21	AHEAD ARROW	_	_	_	-	_	_	_	_	J-ASSEMBLY
7-15	319+00 RT	D5-62R	48 x 24	WAYSIDE WITH ARROW	_	1	-	_	8.00	-	1	1	***************************************
7-16	321+00 RT	R2-1	24 x 30	SPEED LIMIT 45	_	1	_	-	5.00	-	1	1	
7-17	320+00 LT	R1-1	30 x 30	STOP	-	1	-	-	5.18	-	1	1	
7-18	320+00 LT	W3-1	36 x 36	STOP AHEAD	-	-	1	-	9.00	-	1	1	
7-19	320+00 RT	R1-1	30 x 30	STOP	-	1	-	-	5.18	-	1	1	
7-20	321+50 LT	D5-62L	48 x 24	WAYSIDE WITH ARROW	=	1	-	-	8.00	-	1	1	
7-21	305+00 RT	W3-1	36 x 36	STOP AHEAD	-	-	1	-	9.00	-	1	1	
7-22	324+00 RT	J2 - 2	48 x 57	ROUTE MARKER ASSEMBLY	-	-	1	-	19.00	-	1	1	J-ASSEMBLY
		MB3-2	24 x 12	EAST	-	-	-	-	-	-	-	=	J-ASSEMBLY
		MB1-1	24 x 24	IH 90	=	-	=	-	-	-	-	=	J-ASSEMBLY
		MB5-2R	21 x 21	TILT AHEAD RIGHT ARROW	-	-	-	-	-	-	-	-	J-ASSEMBLY
		MB3-2	24 x 12	EAST	=	-	=	-	-	-	-	=	J-ASSEMBLY
		MB1-1	24 x 24	IH 94	-	-	-	-	-	-	-	-	J-ASSEMBLY
= 00		MB5-2R	21 x 21	TILT AHEAD RIGHT ARROW	-	-	-	-	-	-	-	-	J-ASSEMBLY
7-23	323+00 LT	R2-1	24 x 30	SPEED LIMIT 45	-	1	-	-	5.00	-	1	1	
7-24	326+30 RT	D1-3	66 x 36	PORTAGE, WIS. DELLS, MADISON	-	1	1	-	16.50	-	1	2	
7-25	327+00 RT	W13-3	24 x 30	RAMP 25 MPH	-	1	-	-	5.00	-	1	2	
7-26 7-27	328+00 RT 328+00 RT	J3-2 J3-2	- 48 x 57	ROUTE MARKER ASSEMBLY ROUTE MARKER ASSEMBLY	-	-	- 1	-	19.00	-	1	1	J-ASSEMBLY
1-21	320+00 K1	MB3-2	46 x 57 24 x 12	EAST	-	-	'	-	19.00	-	1	ı	J-ASSEMBLY
		MB1-1	24 x 12 24 x 24	IH 90	-	-	-	-	-	-	-	-	J-ASSEMBLY
		MB6-2	24 x 24 21 x 21	TILT RIGHT ARROW	-	_	-	_	_	-	-	-	J-ASSEMBLY
		MB3-2	21 x 21 24 x 12	EAST	_	-	_	_	_	-	<u>-</u>	_	J-ASSEMBLY
		MB1-1	24 x 24	IH 94	-	-	-	-	_	-	<u>-</u>	-	J-ASSEMBLY
		MB6-2	21 x 21	TILT RIGHT ARROW	_	_	_	_	_	_	_	_	J-ASSEMBLY
7-28	328+20 RT	R3-1	24 x 24	NO RIGHT TURN	_	1	_	_	4.00	_	1	1	O / TOOL MIDE!
7-29	329+00 RT	W12-1D	24 x 24	DOUBLE DOWN ARROW	1		_	-	4.00	-	i	1	
7-30	329+00 RT	R1-1	30 x 30	STOP	_	1	_	-	5.18	_	1	1	
7-31	329+40 RT	R1-2	36 x 31	YIELD	_	1	_	_	3.88	-	1	1	
7-32	329+20 RT	J3-2	48 x 57	ROUTE MARKER ASSEMBLY	_	-	1	_	19.00	-	1	1	J-ASSEMBLY
		M3-4	24 x 12	WEST	_	-	_	-	_	-	_	-	J-ASSEMBLY
		M1-6	24 x 24	STH 33	-	-	-	-	-	-	-	-	J-ASSEMBLY
		M6-1	21x 21	LEFT ARROW	-	-	-	-	-	-	-	-	J-ASSEMBLY
		M3-2	24 x 12	EAST	-	-	-	-	-	-	-	-	J-ASSEMBLY
		M1-6	24 x 24	STH 33	-	-	-	-	-	-	-	-	J-ASSEMBLY
		M6-1	21x 21	RIGHT ARROW	-	-	-	-	-	-	-	=	J-ASSEMBLY
7-33	329+20 LT	W1-7	48 x 24	TWO-DIRECTION ARROW	-	1	-	-	8.00	-	-	-	
7-34	301+00 RT	W3-5	36 x 36	45 MPH AHEAD	-	-	1	-	9.00	-	1	1	
7-35	326+00 LT	J4-3	72 x 36	REASSURANCE MARKER	-	1	1	-	18.00	-	2	2	J-ASSEMBLY
		M3-4	24 x 12	WEST	-	-	-	-	-	-	-	=	J-ASSEMBLY
		M1-6	24 x 24	STH 33	=	-	=	-	-	-	-	=	J-ASSEMBLY
		MB4-1	24 x 12	ALTERNATE	=	-	=	-	-	-	-	=	J-ASSEMBLY
		MB1-1		IH 90	-	-	-	-	-	-	-	-	J-ASSEMBLY
		MB4-1	24 x 12	ALTERNATE	-	-	-	-	-	-	-	-	J-ASSEMBLY
		MB1-1	24 x 24	IH 94	-	-	-	-	-	-	-	-	J-ASSEMBLY
7-36	329+40 RT	R5-1	30 x 30	DO NOT ENTER	-				6.25				POSTED WITH 7-31
8-1	329+30 LT	J3-3	72 x 57	ROUTE MARKER ASSEMBLY	-	-	-	2	28.50	-	1	2	J-ASSEMBLY
		MB3-2	24 x 12	EAST	-	-	-	-	-	-	=	=	J-ASSEMBLY
		MB1-1	24 x 24	IH 90	-	-	-	-	-	-	=	=	J-ASSEMBLY
		MB6-1	21 x 21	LEFT ARROW	-	-	-	-	-	-	=	=	J-ASSEMBLY
		MB3-2	24 x 12	EAST III 04	-	-	-	-	-	=	-	-	J-ASSEMBLY
		MB1-1 MB6 1	24 x 24	IH 94	-	-	-	-	-	-	=	-	J-ASSEMBLY
		MB6-1	21 x 21	LEFT ARROW	-	-	-	-	-	=	-	-	J-ASSEMBLY J-ASSEMBLY
		MB4-1	24 x 12	ALTERNATE	-	-	-	-	-	=	-	-	
		MB1-1	24 x 24	IH 39	-	-	-	-	-	=	-	-	J-ASSEMBLY
8-2	330+80 LT	MB6-1 D1-1	21 x 21 66 x 15	LEFT ARROW MADISON	-	2		-	6.88	-	- 1	2	J-ASSEMBLY
8-3	333+80 LT	W5-52L	12 x 36	BRIDGE WARNING HATCH	<u>-</u> 1	_	_	_	3.00	-	1	1	
8-4	336+50 LT		12 x 36	BRIDGE WARNING HATCH	1	-	_	_	3.00	-	1	1	
8-5	328+30 RT	R5-57	36 x 36	NON-MOTORIZED PROHIBITED	<u>-</u>	1	_	_	9.00	_	1	1	
	020.00111	110-01	JU A JU										
				PAGE 2 TOTAL	. 3	16	7	2	270.05	0	28	30	

PERMANENT SIGNING

POSTS POSTS POSTS POSTS WOOD WOOD WOOD WOOD

634.0614 634.0616 634.0618 634.0620 637.0202 638.2102 638.2602

4X6 INCH 4X6 INCH 4X6 INCH 4X6 INCH REFLECTIVE SIGNS

SIGNS

MOVING REMOVING

SIGNS

PROJECT NO:5090-03-60

HWY:STH 33

COUNTY: COLUMBIA

MISCELLANEOUS QUANTITIES

PLOT BY : dotj3j

PLOT SCALE: 200.000000:1.000000

WISDOT/CADDS SHEET 43

SHEET

PERMANENT SIGNING

SIGN		SIGN	SIGN		634.0614 POSTS WOOD 4X6 INCH 14 FT	634.0616 POSTS WOOD 4X6 INCH 16 FT	634.0618 POSTS WOOD 4X6 INCH 18 FT	634.0620 POSTS WOOD 4X6 INCH 20 FT	637.0202 SIGNS REFLECTIVE TYPE II	638.2102 MOVING SIGNS TYPE II	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	
NUMBER	LOCATION	CODE	WxH	MESSAGE	EACH	EACH	EACH	EACH	SF	EACH	EACH	EACH	REMARKS
8-6	329+00 RT	R4-7	24 x 30	KEEP RIGHT	-	1	-	-	5.00	-	1	1	
8-7	333+80 RT	W5-52R	12 x 36	BRIDGE WARNING HATCH	1	-	-	-	3.00	-	1	1	
8-8	333+80 RT	J2-2	48 x 57	ROUTE MARKER ASSEMBLY	-	-	1	-	19.00	-	1	1	J-ASSEMBLY
		MB3-4	24 x 12	WEST	-	-	-	-	-	-	-	-	J-ASSEMBLY
		MB1-1	24 x 24	IH 90	-	-	-	-	-	-	-	-	J-ASSEMBLY
		MB5-1L	21 x 21	AHEAD LEFT ARROW	-	-	-	-	-	-	-	-	J-ASSEMBLY
		MB3-4	24 x 12	WEST	-	-	-	-	-	-	-	-	J-ASSEMBLY
		MB1-1	24 x 24	IH 94	-	-	-	-	-	-	-	-	J-ASSEMBLY
		MB5-1L	21x 21	AHEAD LEFT ARROW	-	-	-	-	-	-	-	-	J-ASSEMBLY
8-9	332+00 RT	R2-1	24 x 30	SPEED LIMIT 45	=	1	-	-	5.00	-	1	-	
8-10	336+50 RT	W5-52L	12 x 36	BRIDGE WARNING HATCH	1	-	-	-	3.00	-	1	1	
				PAGE 3 TOTAL	. 2	2	1	0	35.00	0	5	4	
				PAGE 1 TOTAL		23	1	0	301.40	1	35	32	
			_	PAGE 2 TOTAL		16	7	2	270.05	0	28	30	
			_	UNDISTRIBUTED		-	-	-	-	3	7	7	
				PROJECT TOTAL	. 9	41	9	2	606.45	4	75	73	

PAVEMENT PAVEMENT PAVEMENT PAVEMENT PAVEMENT LOCATING MARKING MARKING MARKING MARKING MARKING SAME DAY **EPOXY** STOP LINE YIELD LINE PASSING EPOXY 4-INCH 8-INCH EPOXY 18-INCH SYMBOLS YELLOW EPOXY 18-INCH ZONES

1,100

647.0566

647.0526

648.0100

EPOXY 4-INCH WHITE YELLOW
 STATION
 STATION

 123+20
 303+00

 303+00
 333+80
 LOCATION MAINLINE 36,100 MAINLINE 233+50 OWEN RD. 273+80 PIGTAIL ALLEY 283+20 305+00 CTH W CASCADE MOUNTAIN RD TRITZ RD. 320+00 320+00 WAYSIDE IH 90/94 ENTRANCE 328+80 100 300 700 329+20 IH 90/94 EXIT 400

646.0106

42,900 18,300

61,200

SUBTOTAL

PAVEMENT MARKING

646.0406

TRAFFIC CONTROL

			643.0100 TRAFFIC CONTROL	643.0300	643.0900	643.1000 SIGNS FIXED		
		*	PROJECT	DRUMS	SIGNS	MESSAGE		
LOCATION	NC	DAYS	EACH	DAYS	DAYS	SF		
PROJEC	CT	35	1	-	420	96		
SIDEROA	NDS	35	-	-	560			
UNDISTRIB	UTED	-	-	500	100			
		TOTAL:	1	500	1,080	96		
* FOR INFORMATION ONLY								

CONSTRUCTION STAKING

650.9910 RESURFACING SUPPLEMENTAL REFERENCE CONTROL (PROJECT) LOCATION PROJECT 21,060

HWY:STH 33 PROJECT NO:5090-03-60 COUNTY: COLUMBIA MISCELLANEOUS QUANTITIES SHEET

PLOT DATE: 30-JAN-2013 09:32 PLOT NAME : FILE NAME : R:\Projects\d1_50900330\030201_mq.dgn PLOT BY: dotj3j PLOT SCALE: 200.000000:1.000000 WISDOT/CADDS SHEET 43

Standard Detail Drawing List

08E09-06	SILT FENCE
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"
13A11-01A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-01B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B15-07A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-07B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-07C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B24-07A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-07B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-07C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B29-01	SAFETY EDGE
14B42-02A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-01A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-03A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-15A	PAVEMENT MARKING (MAINLINE)
15C08-15B	PAVEMENT MARKING (INTERSECTIONS)
15C08-15F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C12-03	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-01A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C20-01	YIELD MARKING
15C27-01	DOUBLE ARROW WARNING SIGN PLACEMENT
15D28-01	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

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METAL APRON ENDWALLS											
PIPE	MIN. 1	THICK.	DIMENSIONS (Inches)							APPROX.	
DIA.	(Incl		A	В	Н	L	Lį	L2	W	SLOPE	BODY
(IN.)	STEEL	ALUM.	(±]")	(MAX.)	(±]")	(±1½")	①	0	(±2")		
12	.064	.060	6	6	6	21	12	171/2	24	21/2+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	2½+o 1	1Pc.
18	.064	.060	8	10	6	31	15	28 ¹ / ₄	36	2½+o 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	$2\frac{1}{2}$ to 1	1Pc.
24	.064	. 075	10	13	6	41	18	371/4	48	$2\frac{1}{2}$ to 1	1Pc.
30	.079	. 075	12	16	8	51	18	521/4	60	$2\frac{1}{2}$ to 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	$2\frac{1}{2}$ to 1	2 Pc.
42	.109	. 105	16	22	11	69	24	75 1/8	84	$2\frac{1}{2}$ to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ +o 1	3 Pc.
54	.109	. 105	18	30	12	84	30	851/2	102	21/4+0 1	3 Pc.
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×		18	45	12	87	_	_	138	1/2+0 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	1/2+0 1	3 Pc.
96	.109×	.105×	18	35	12	87	_		150	11/2+0 1	3 Pc.

* EXCEPT CENTER PANEL

SEE GENERAL NOTES

PLAN VIEW

END VIEW

SIDE ELEVATION

METAL ENDWALLS

SHOULDER

SLOPE

	REINFORCED CONCRETE APRON ENDWALLS									
PIPE		DIMENSIONS (Inches)								
DIA.	Т	A	В	С	D	E	G	APPROX. SLOPE		
12	2	4	24	48 1/8	721/8	24	2	3 to 1		
15	21/4	6	27	46	73	30	21/4	3 to 1		
18	21/2	9	27	46	73	36	21/2	3 to 1		
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1		
24	3	91/2	431/2	30	731/2	48	3	3 to 1		
27	31/4	101/2	$49^{1}/_{2}$	24	731/2	54	31/4	3 to 1		
30	$3\frac{1}{2}$	12	54	193⁄4	731/2	60	31/2	3 to 1		
36	4	15	63	34¾	97¾	72	4	3 to 1		
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1		
48	5	24	72	26	98	84	5	3 to 1		
54	51/2		65	* ** 33 ¹ / ₄ -35	* 98 ¹ / ₄ - 100	90	51/2	2% to 1		
60	6	* ** 30-35	60	39	99	96	5	2 to 1		
66	61/2		* ** 72-78	* * * 21-27	99	102	51/2	2 to 1		
72	7	* ** 24-36	78	21	99	108	6	2 to 1		
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1		
84	8	36	901/2	21	1111/2	120	61/2	11/2+0 1		
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1		

*MINIMUM

PLAN

END VIEW

END SECTION

GROOVED END ON OUTLET END SECTION TONGUE END ON INLET END SECTION

BAR OR STEEL FABRIC

REINFORCEMENT

LONGITUDINAL SECTION

CONCRETE ENDWALLS

OPTIONAL

1 1/2" R

CULVERT

MEASURED LENGTH

OF CULVERT (TO-

NEAREST FOOT)

DESIGN

REINFORCED

SECTION A-A)

END CORNER PLATES MAY

BE FASTENED TO APRON

THE SURFACES TIGHTLY

TOGETHER

PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD

TOE PLATE (SAME THICKNESS

AND METAL AS APRON) SHALL

BE FURNISHED WHEN CALLED

FOR ON THE PLANS

FDGE (SFE

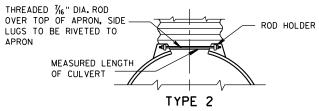
END SECTION CONNECTOR STRAP LUG

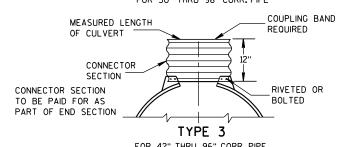
1" WIDE, 12 GA. (0.109"

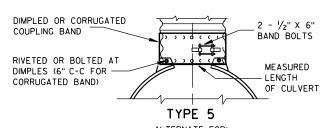
THICK) GALVANIZED STRAP

WITH STANDARD 6" X 1/2" BAND BOLT AND NUT

TYPE 1 FOR 12" THRU 24" CORR. PIPE





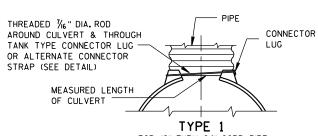


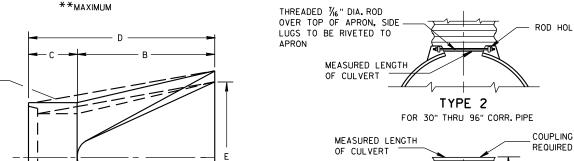
ALTERNATE FOR: ALL SIZES CORRUGATED CIRCULAR PIPE

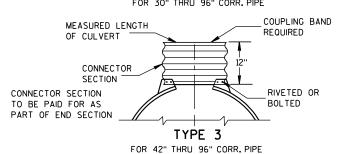
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

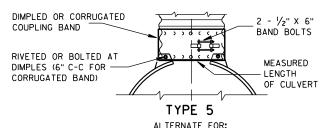
CONNECTION DETAILS 1, 2 OR 5.

ALTERNATE FOR TYPE 1 CONNECTION







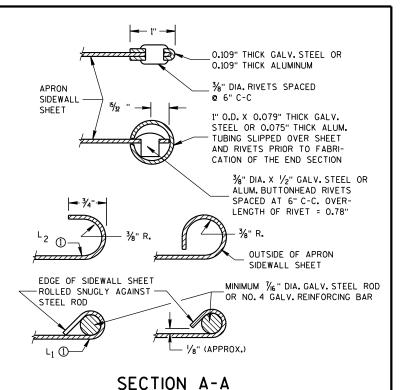


FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

FOR HELICALLY CORRUGATED PIPE USE ENDWALL

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

CONNECTION DETAILS



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

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

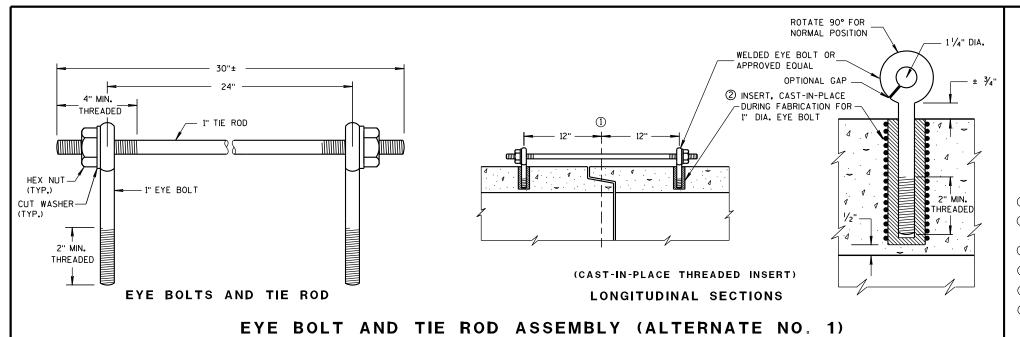
11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER

END CORNER

1/16" DIA. HOLES FOR

BOLTS OR RIVETS -

12" C-C MAX. SPACING



GENERAL NOTES

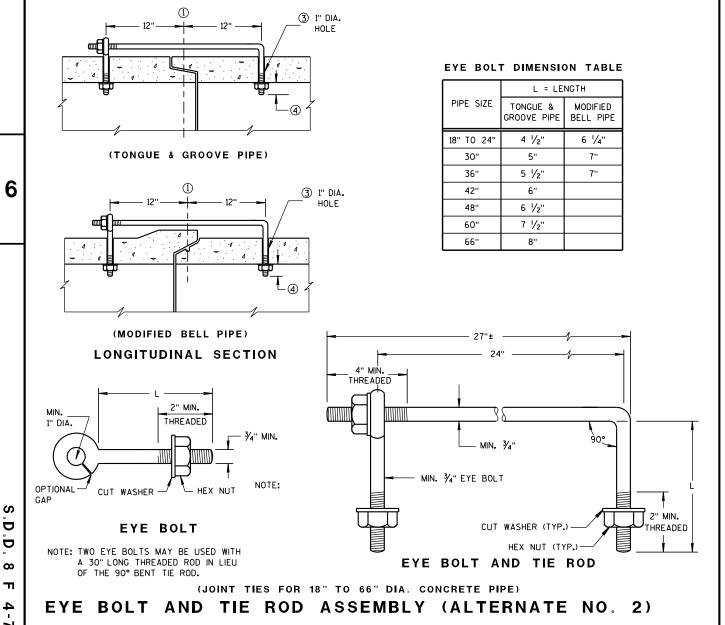
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES, ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

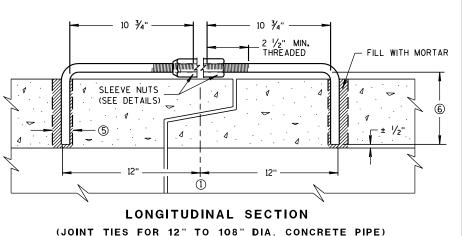
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ${\mathfrak L}$ OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- (5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN $rac{1}{2}$ INCH OF THE INNER SURFACE OF THE PIPE.

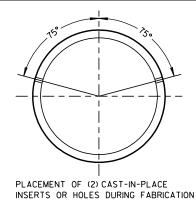


D

ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

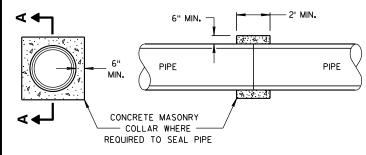


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

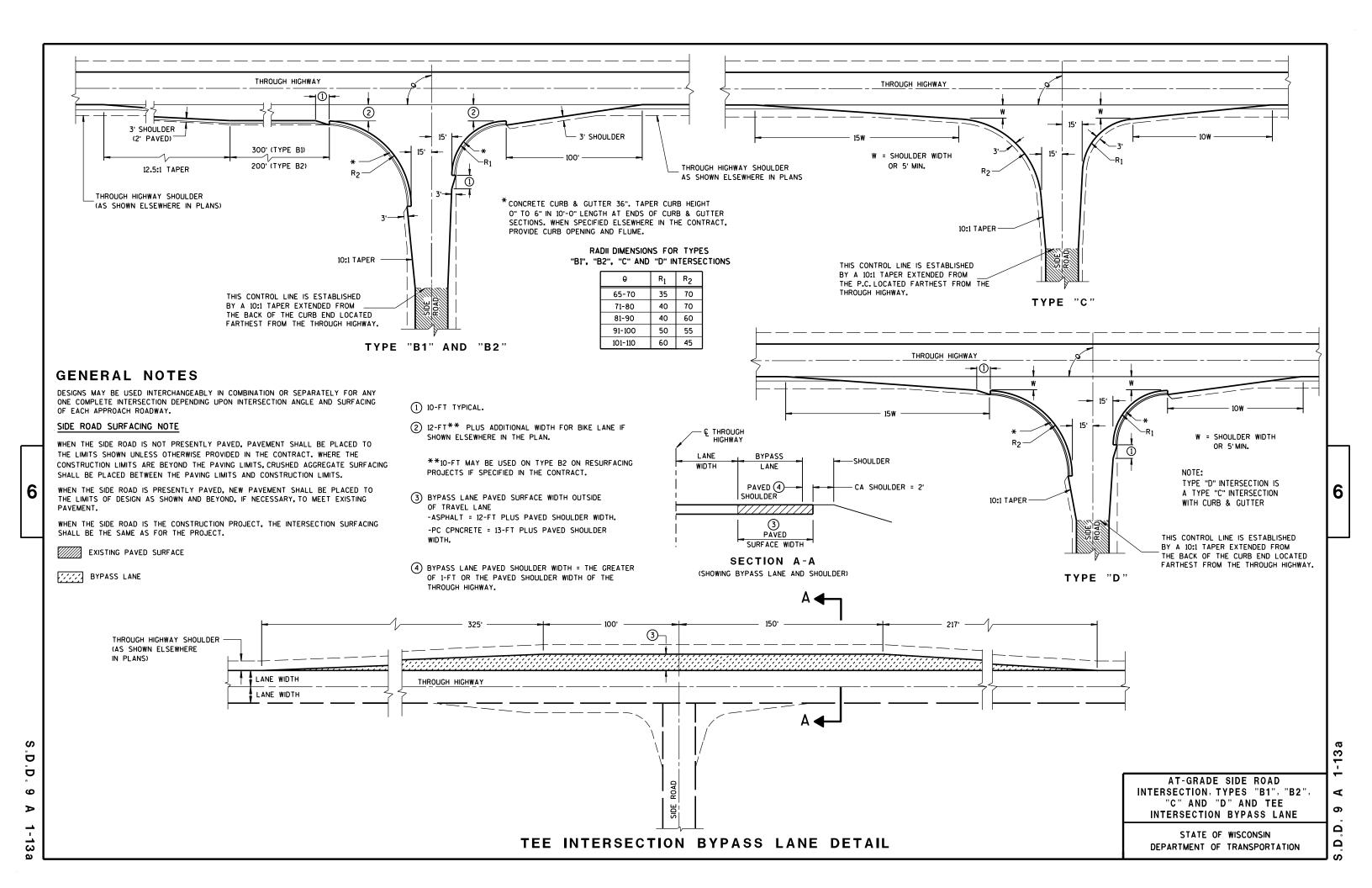
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

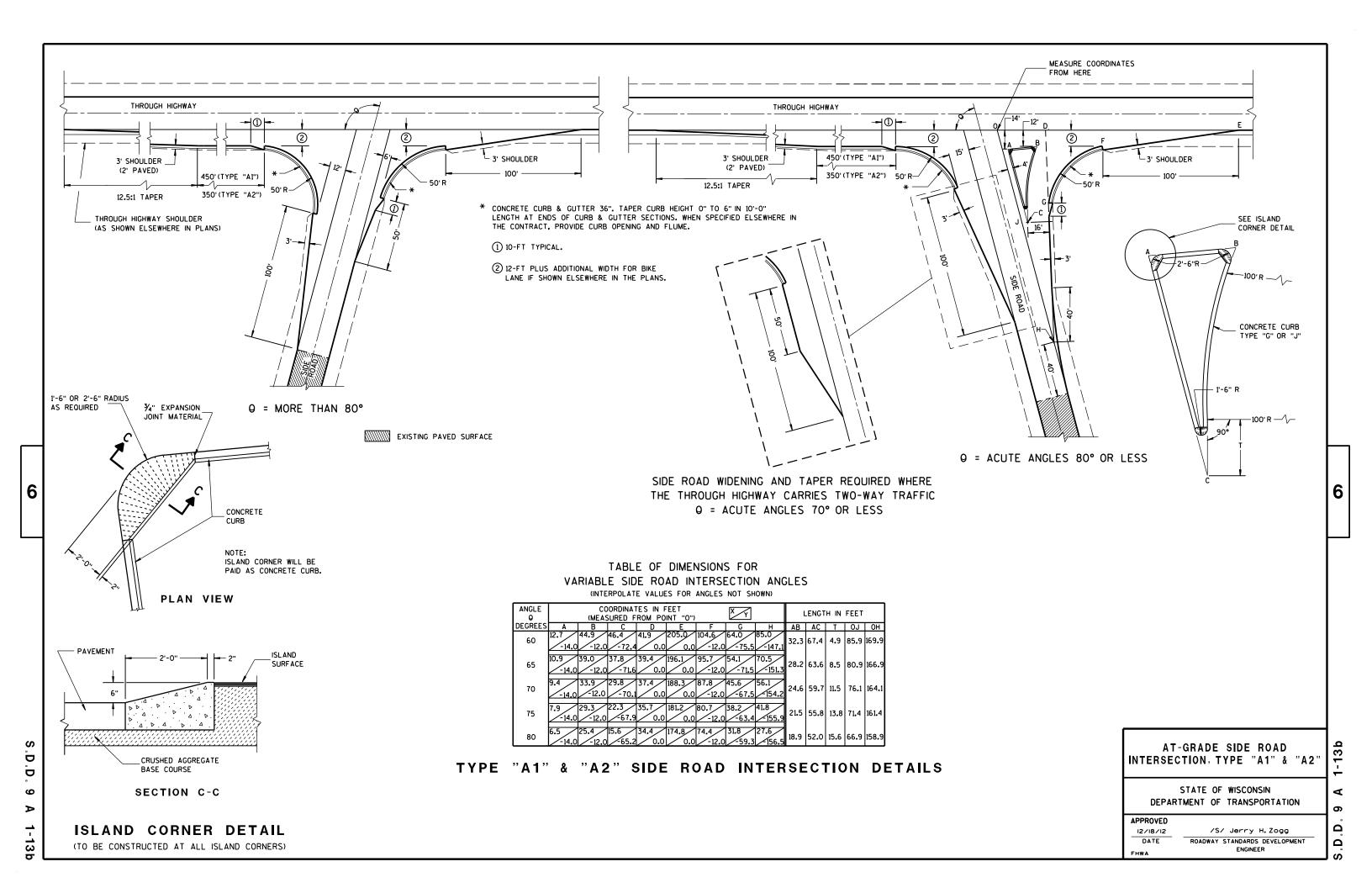
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

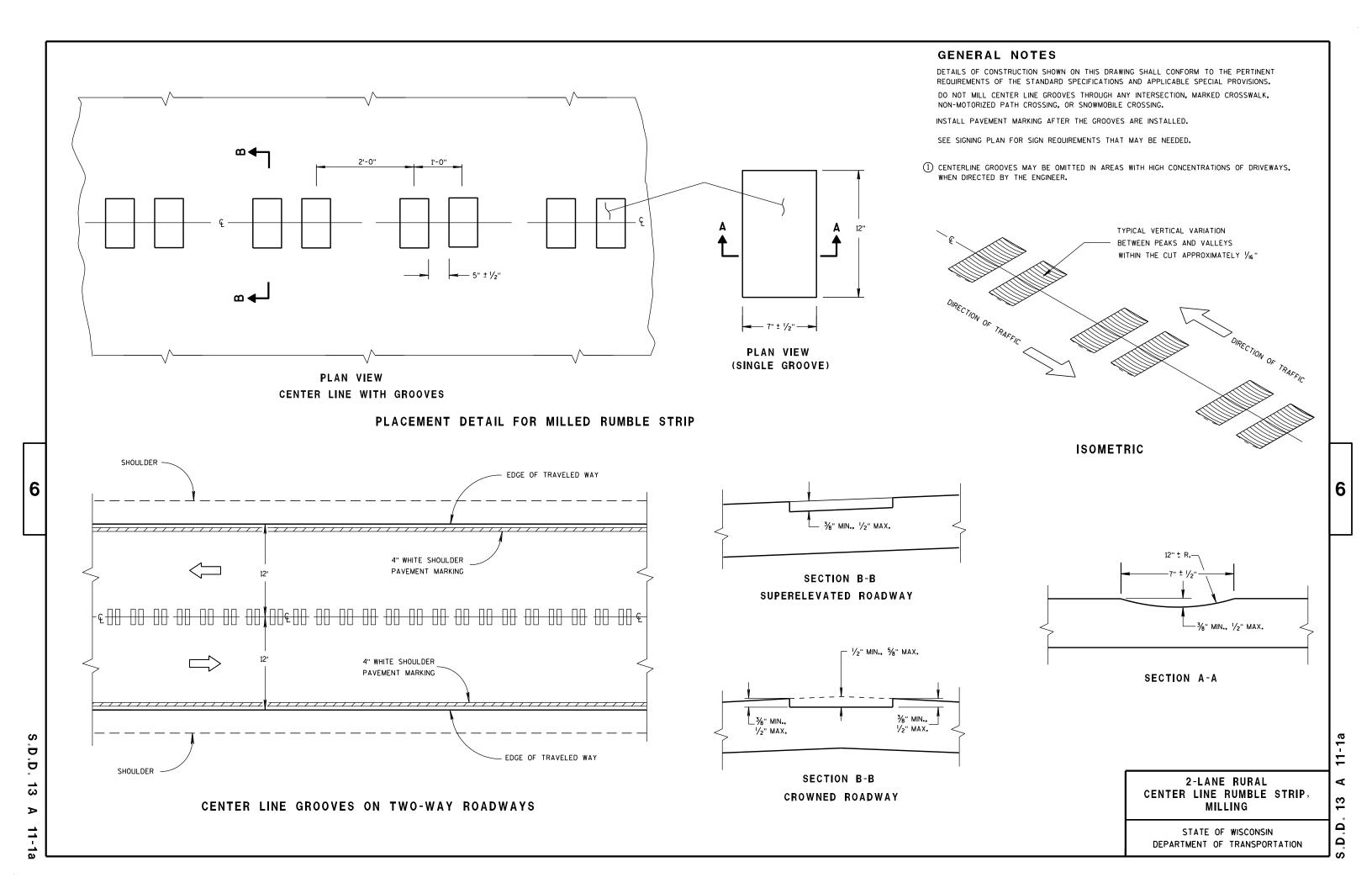
6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

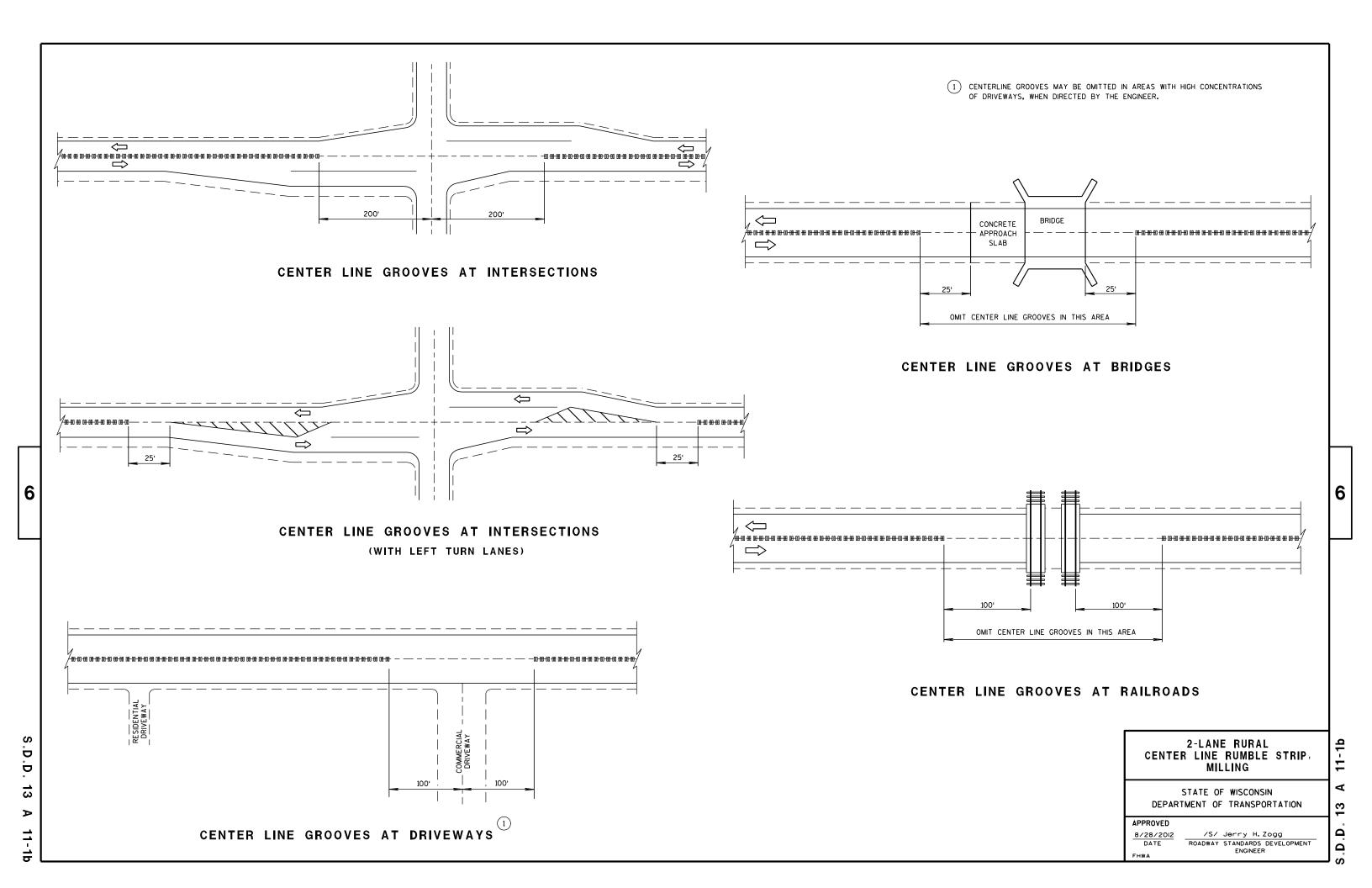
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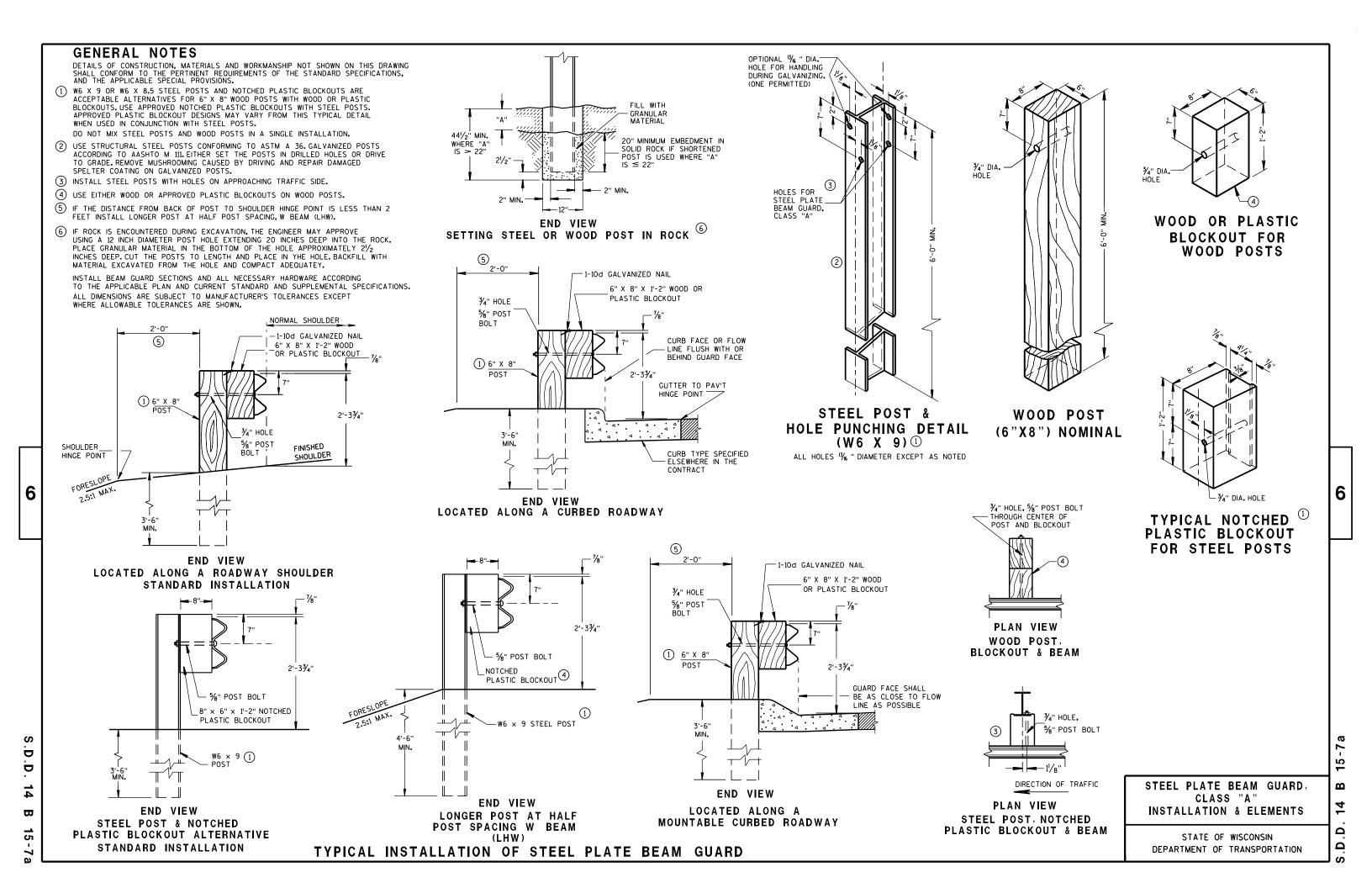
Ω







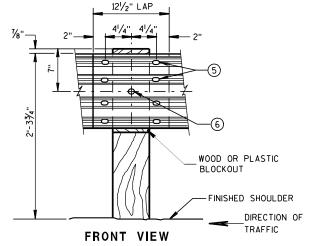




POST SPACING STANDARD INSTALLATION

SYMMETRICAL TABOUT € ∕-12 GAGE

SECTION THRU W BEAM



BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

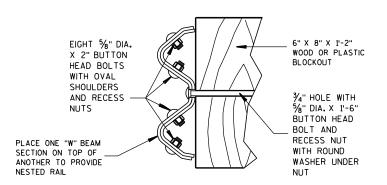
GENERAL NOTES

- 1 PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.
- 2 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- 3 REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
- 4 PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
- (5) 8 % " ϕ X 2 " BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- 6 $\frac{1}{8}$ " ϕ X 1'-6" BUTTON HEAD BOLT AND AND RECESS NUT WITH ROUND WASHER UNDER NUT.

12½" LAP $\frac{3}{4}$ " × $2\frac{1}{2}$ " POST BOLT SLOT . Ç POST BOLT SLOT " × 1 1/8" NOTCHED SPLICE BOLT SLOT PLASTIC -BLCKOUT DIRECTION OF TRAFFIC

FRONT VIEW BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

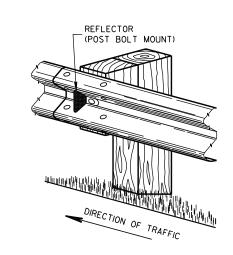
	-	12'-6" OF		-	l
		EFFECTIVE LEN	IGTH OF BEAM		
	3'-1 ¹ / ₂ " C-C	3'-1 ¹ / ₂ " C-C	3'-1½" C-C	3'-11/2" C-C	
İ	POST SPACING	POST SPACING	POST SPACING	POST SPACING	
				•	
	-	-	+ +		2'-3¾''
	FINIS	HFD		DIRECTIO	
		JLDER	•	TRAFFIC	-

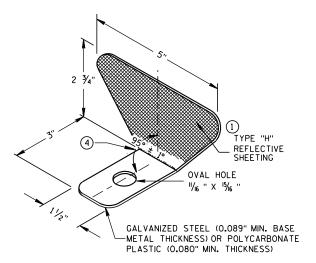
FRONT VIEW

POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)

REFLECTOR SPACING

			0	
	BEAM GUARD	REFLECTOR	NO. SURFACES	MIN. NO.
	LENGTH	SPACING	REFLECTORIZED	REFLECTORS
ONE WAY	< 200'	50' C-C	1	3
TRAFFIC	> 200'	100, C-C	1	
TWO WAY	< 200'	25' C-C	1(3)	6
TRAFFIC	> 200'	50' C-C	1 🔍	
TWO WAY	< 200'	50' C-C	2(4)	3
TRAFFIC	> 200'	100' C-C	2 4	





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

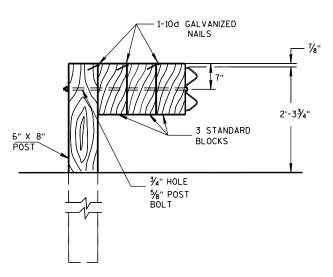
STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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- 1-10d GALVANIZED NAILS

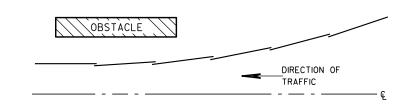


DETAIL FOR TRIPLE BLOCKS

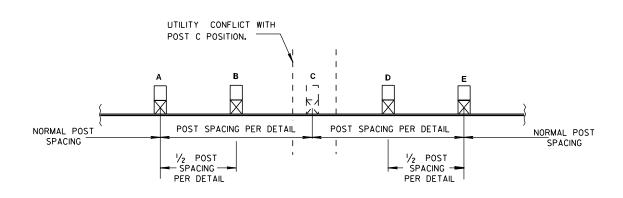
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/II /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS DEVELOPMENT
ENGINEER

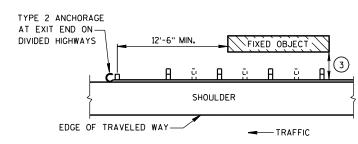
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BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES **EXIT END - ONE WAY TRAFFIC**

GENERAL NOTES

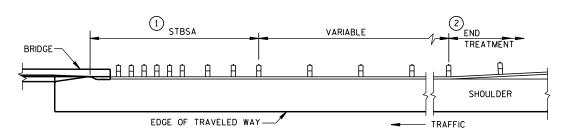
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

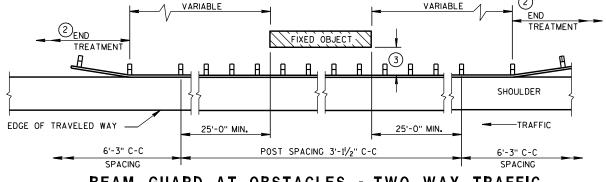
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

- (1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) SEE CURRENT SDD 14B20.
- 2 USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

3	MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
	3'-6"	3' - 11/2"
	4'-6"	6' - 3"



BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")

END TP 1 STBSA VARIABLE TREATMENT BEGIN FLARE END FLARE → EDGE OF FINISHED SHOULDER BRIDGE->SHOULDER **─** TRAFFIC EDGE OF TRAVELED WAY -FLARE RATE PER TABLE 1 AT RIGHT (FLARE RATES FOR BEAM GUARD AT NARROW BRIDGES)

BEAM GUARD AT NARROW BRIDGES (FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

TABLE 1 FLARE RATES FOR BEAM **GUARD AT NARROW BRIDGES**

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

STEEL PLATE BEAM GUARD CLASS "A' AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
8-21-07	/S/ Jerry H.Zogg
DATE	ROADWAY STANDARDS DEVELOPMENT
FHWΔ	ENGINEER

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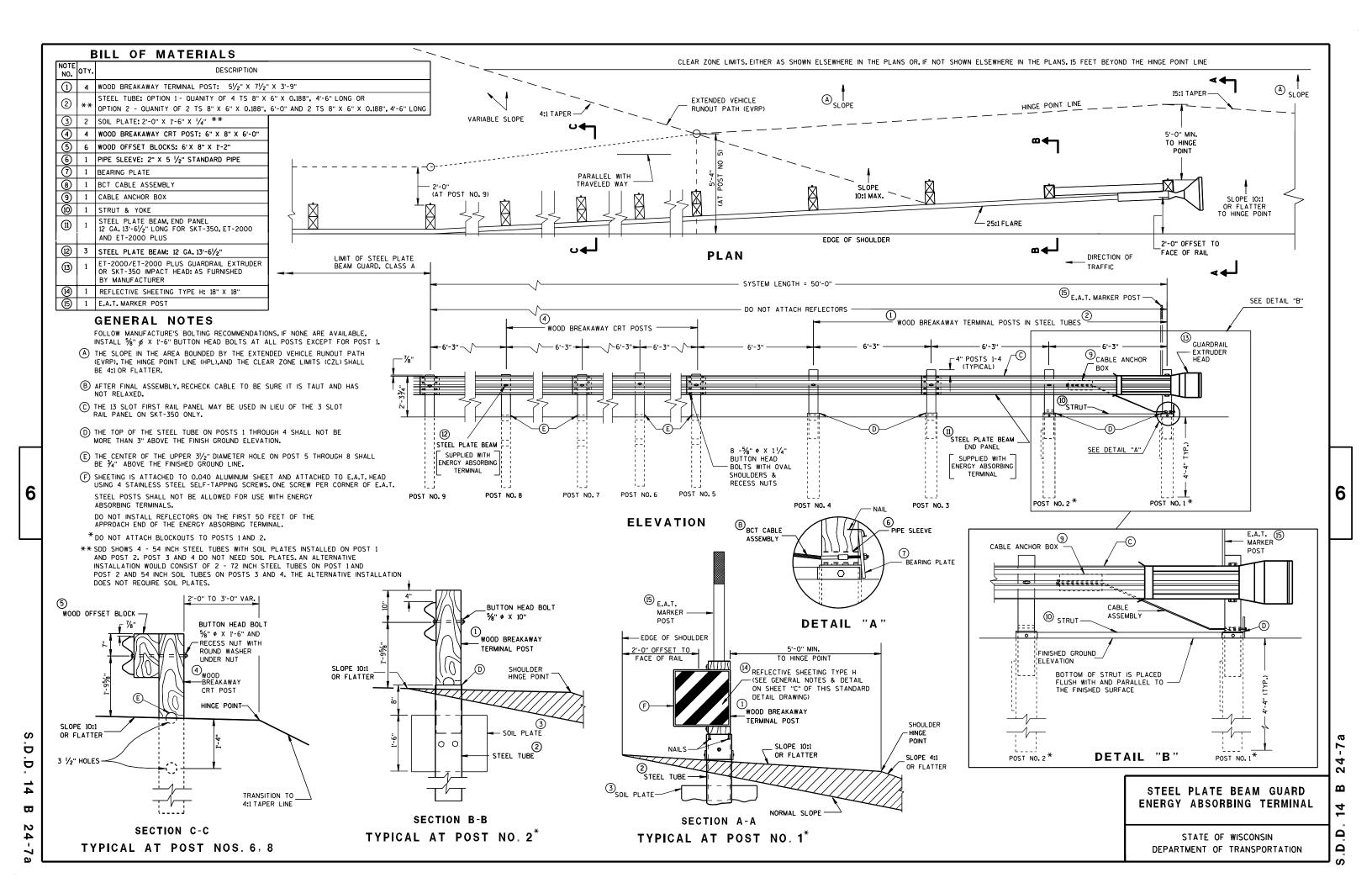
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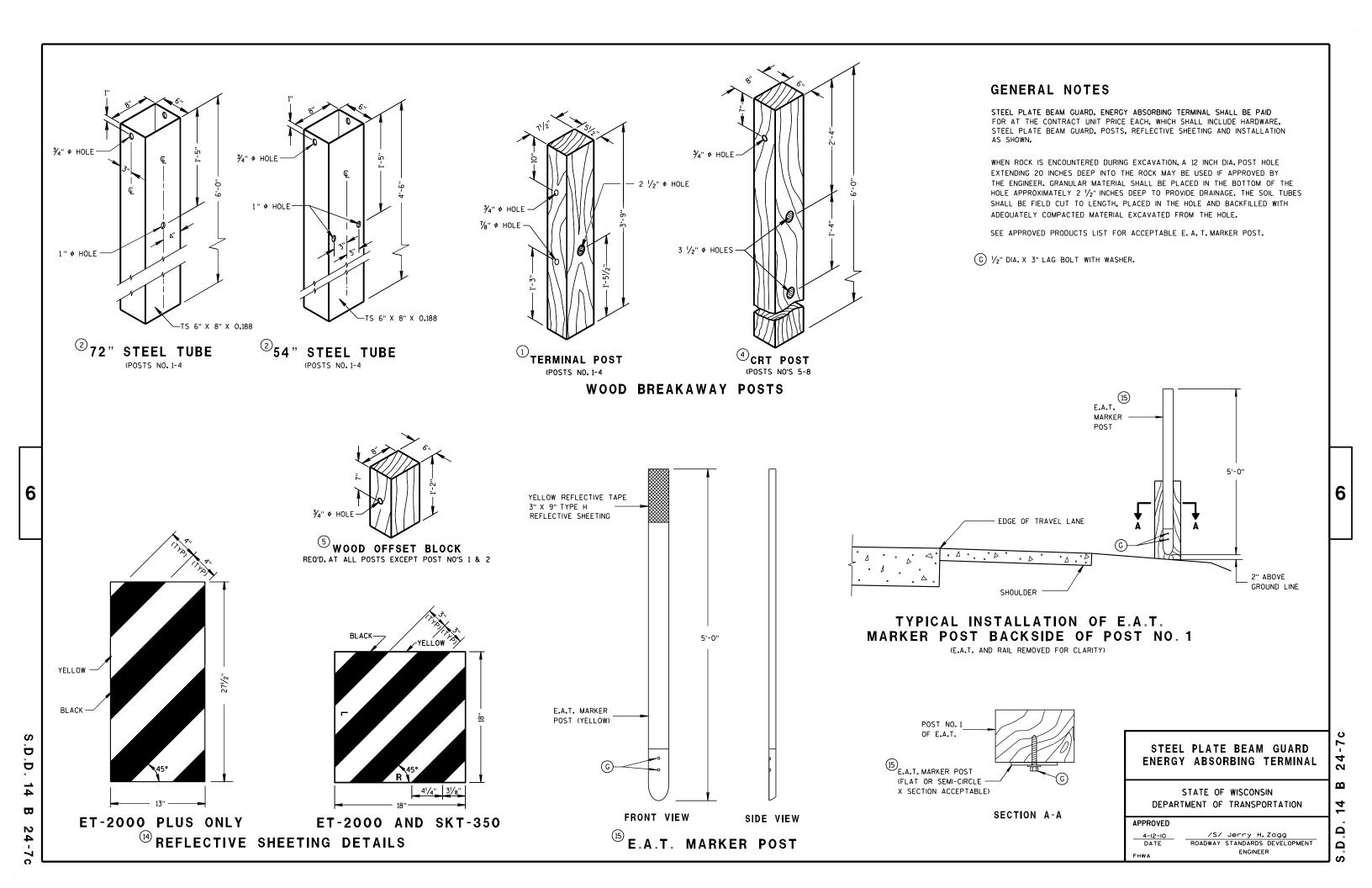
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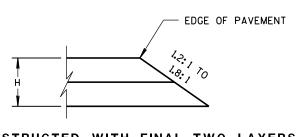
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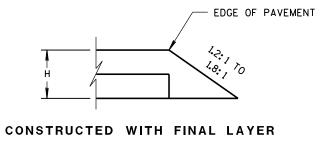


STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



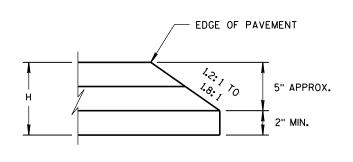


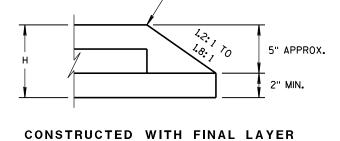


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





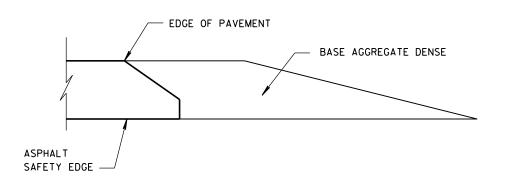
FOR H GREATER THAN 5"

EDGE OF PAVEMENT

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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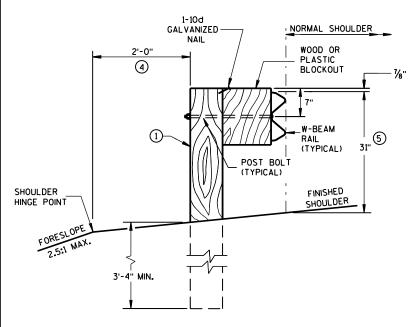
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APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

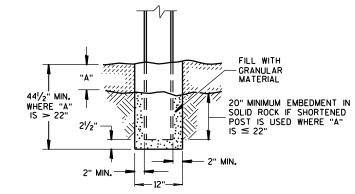
GENERAL NOTES

- (1) WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 21/2INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- (4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

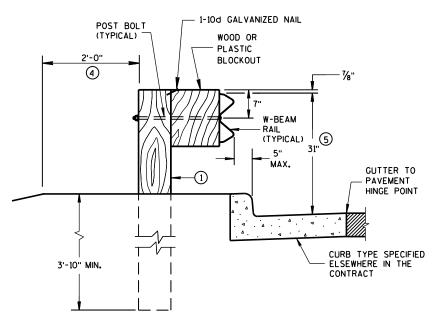


END VIEW

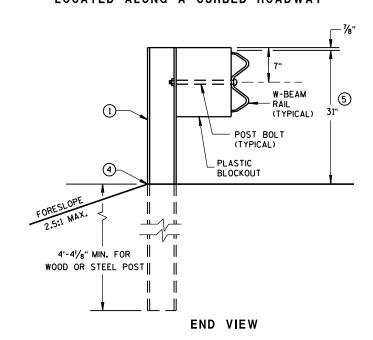
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



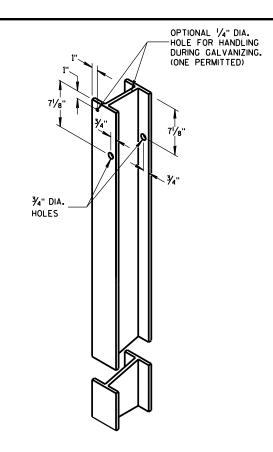
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



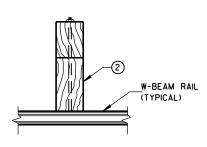
END VIEW
LOCATED ALONG A CURBED ROADWAY



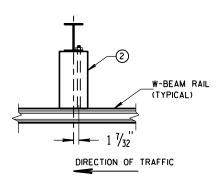
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



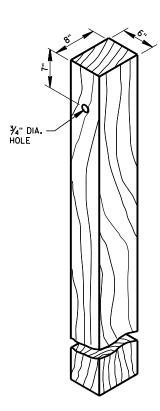
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D.

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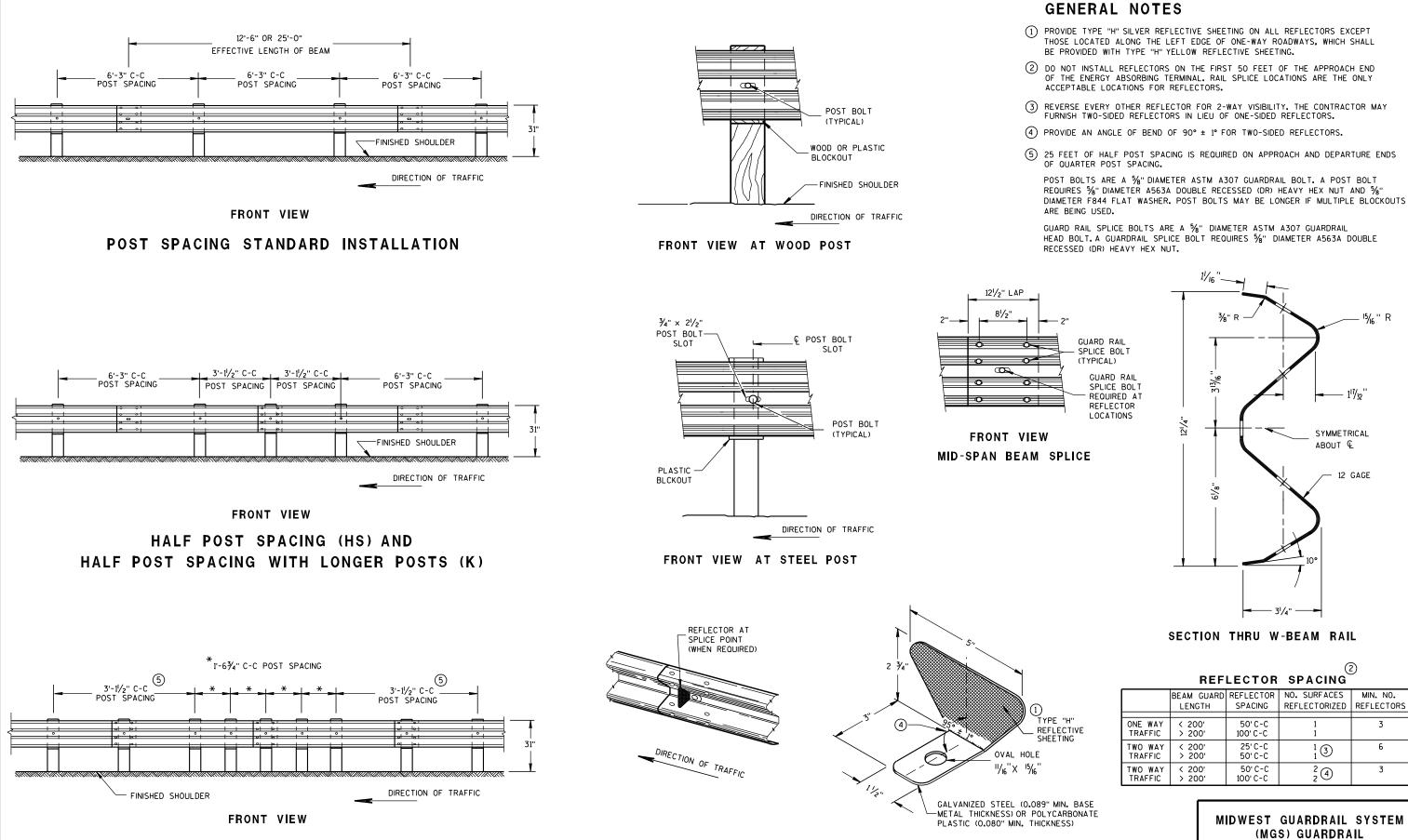
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ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

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QUARTER POST SPACING (QS)

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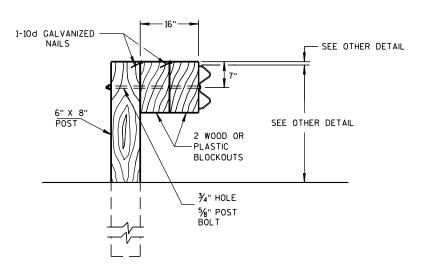
BEAM GUARD REFLECTOR NO. SURFACES MIN. NO.

SPACING | REFLECTORIZED | REFLECTORS 3 6 1 3 2 4 3

> MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

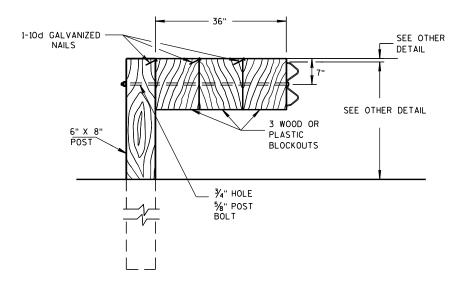
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION Ω Δ

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DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



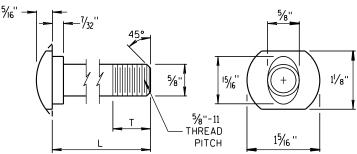
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

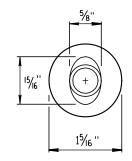
NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".

2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

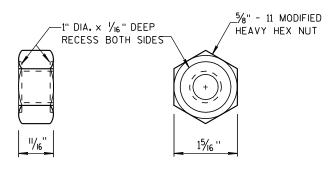


POST BOLT TABLE

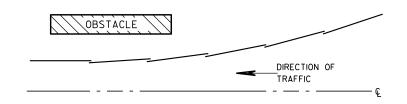
L	T (MIN.)
11/4"	1 1/8"
2"	13/4"
10"	4"
14"	4½ ₆ "
18"	4"
21"	4½ "
25"	4"



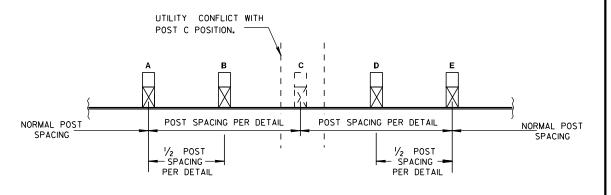
ALTERNATE BOLT HEAD



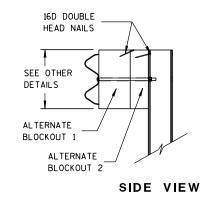
POST BOLT AND RECESS NUT

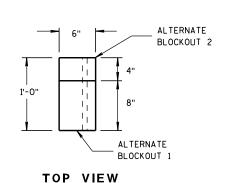


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

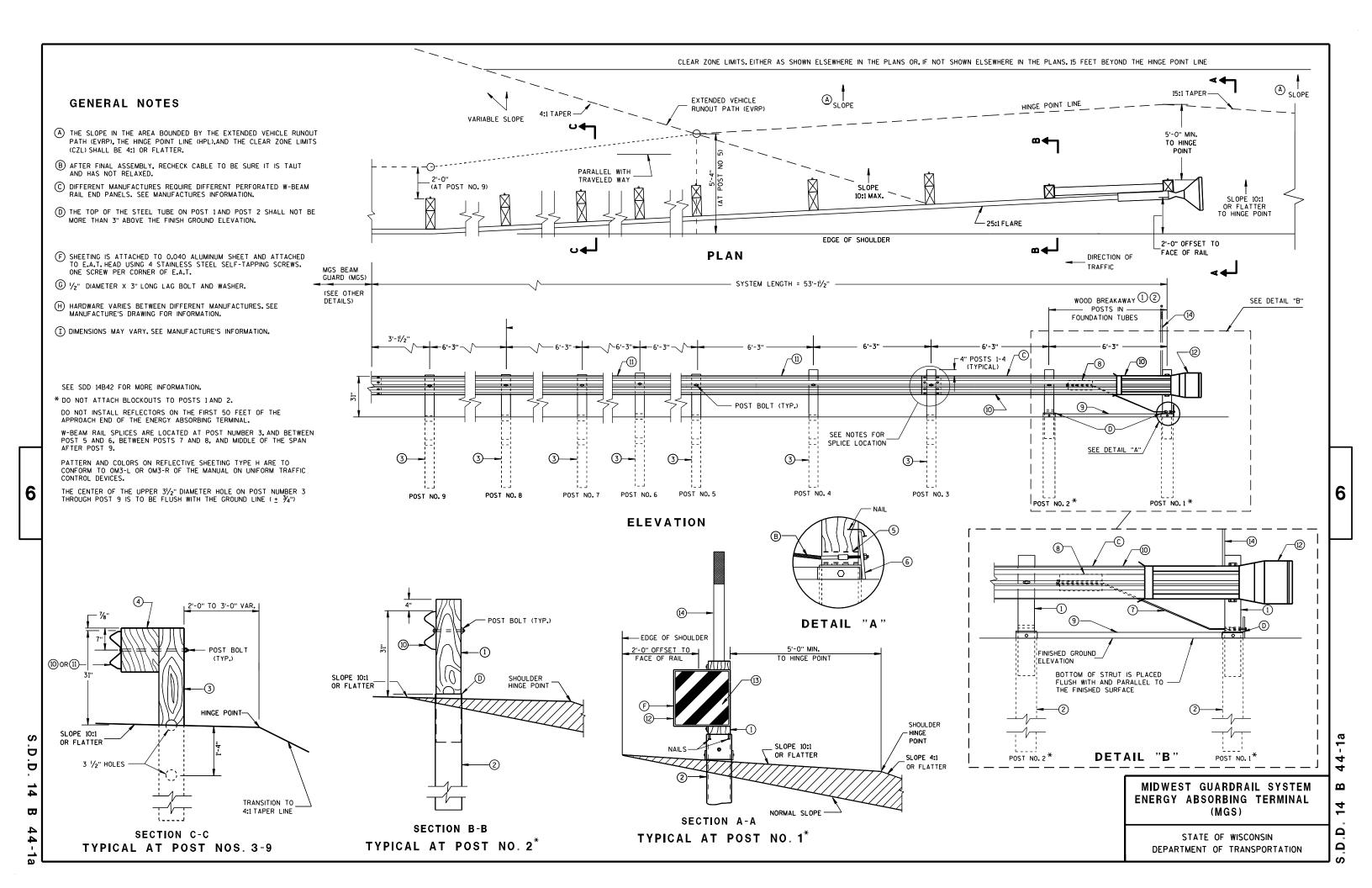
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

II/15/20II /S/ Jerry H. Zogg

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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GENERIC ANCHOR CABLE BOX

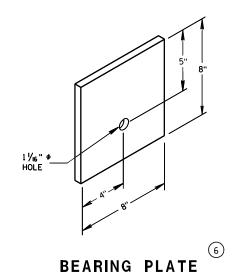
GENERIC GROUND STRUT

9 H

PLAN VIEW

BILL OF MATERIALS

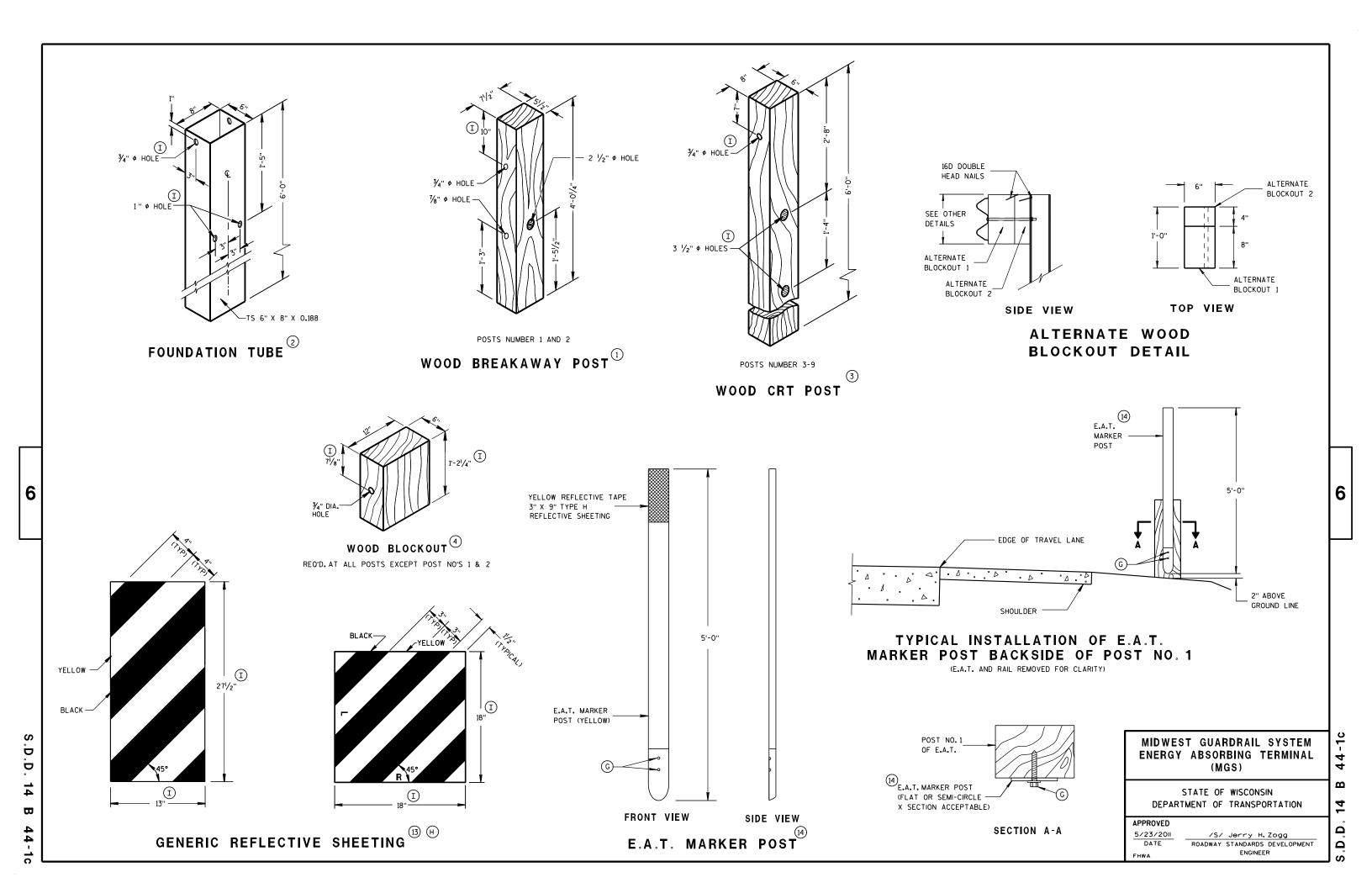
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
1	WOOD BREAKAWAY POST
@	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2
3	WOOD CRT
4	WOOD BLOCKOUT
(5)	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(1)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(2)	END SECTION EAT
13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE H (ONLY THE SHEETING IS SUPPLIED BY THE MANUFACTURER)
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)

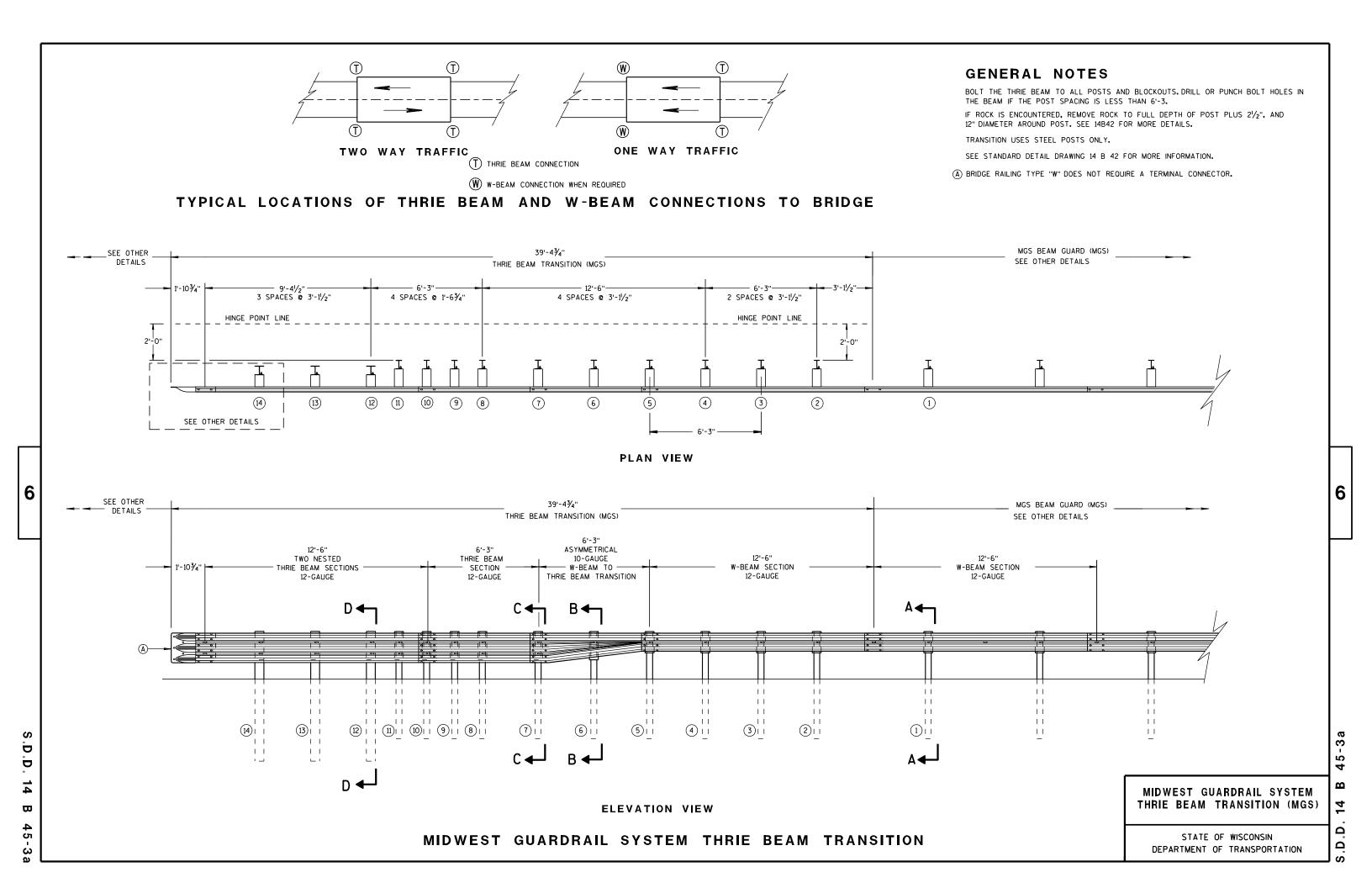


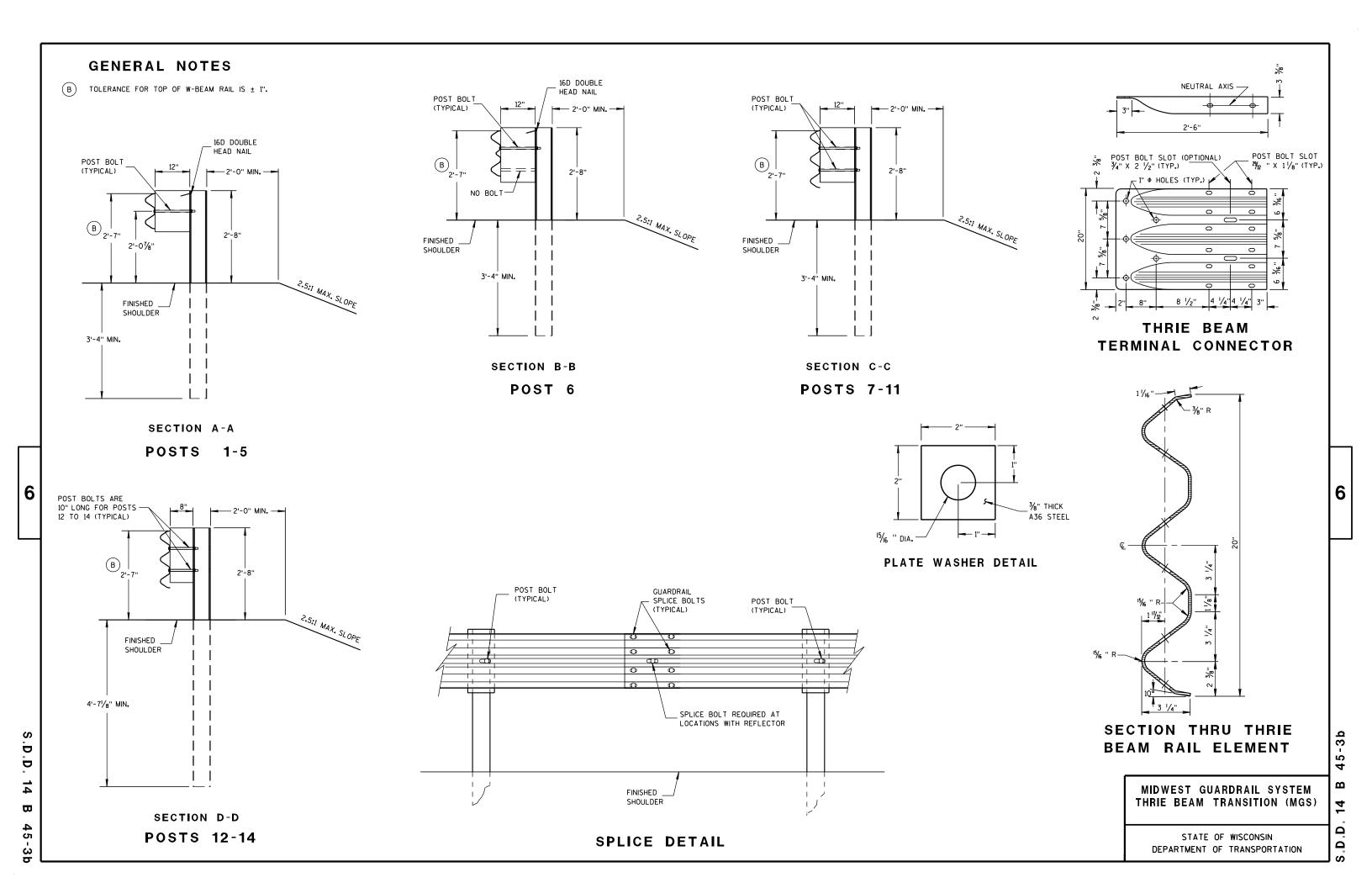
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

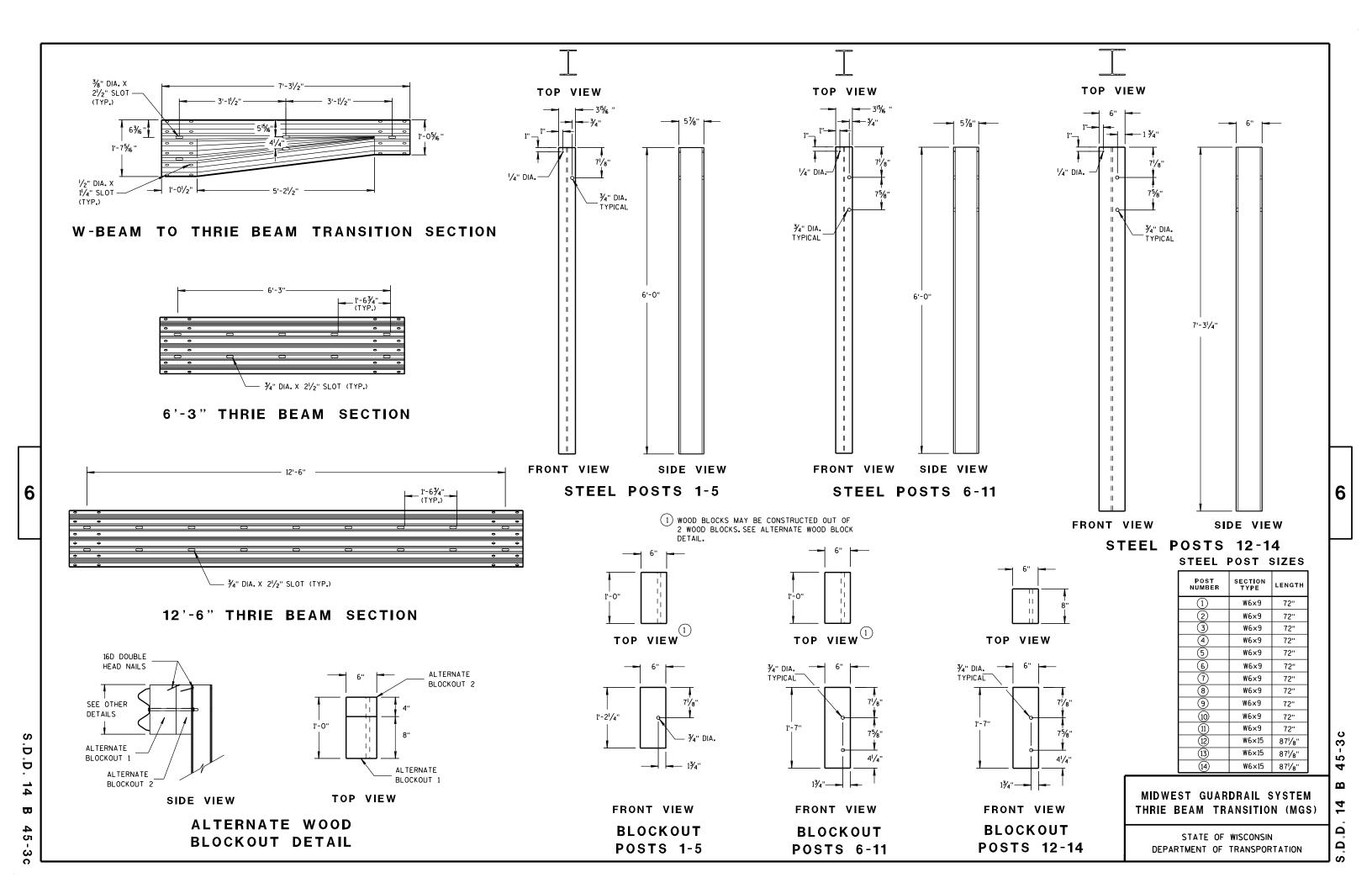
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

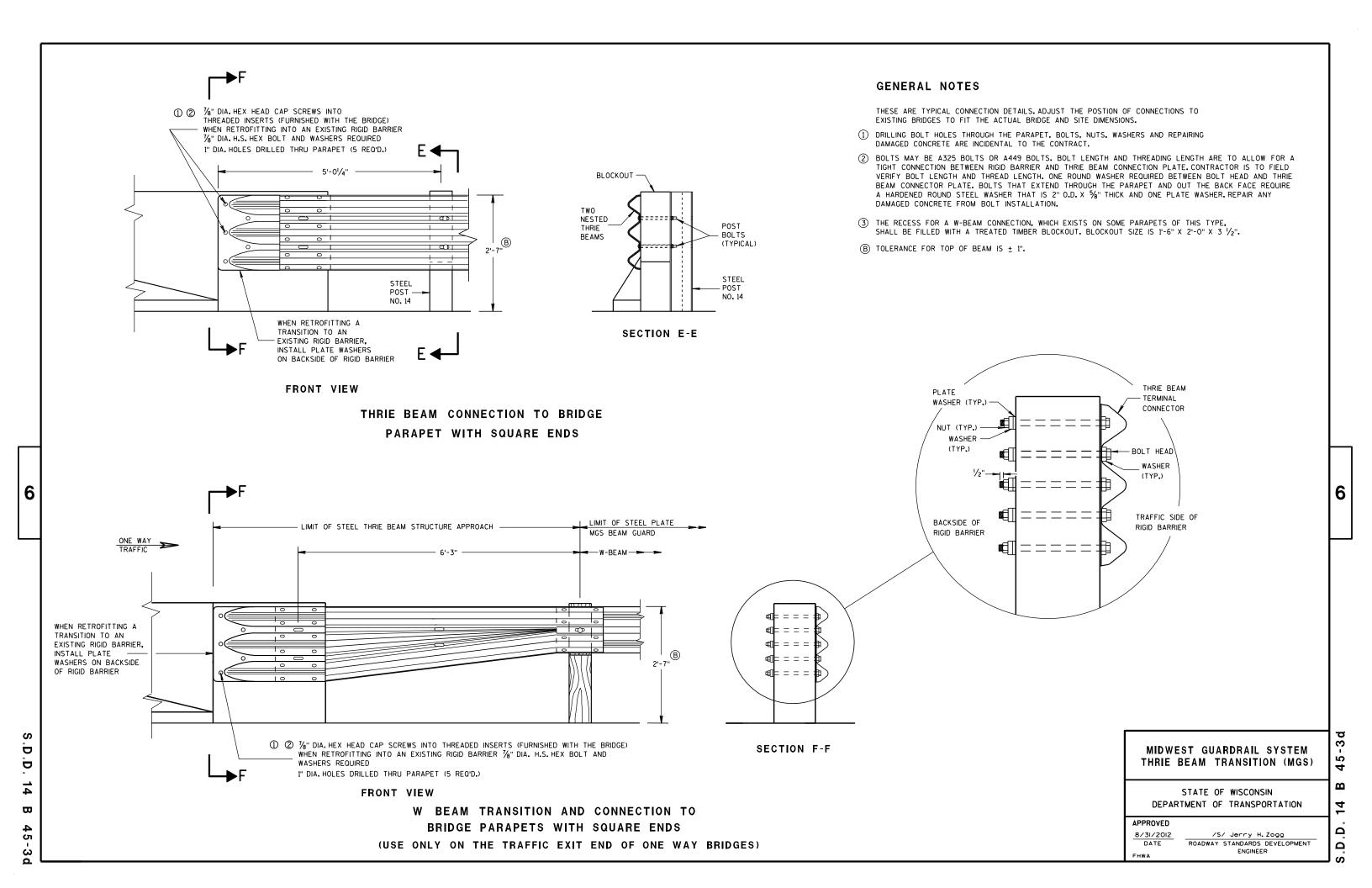
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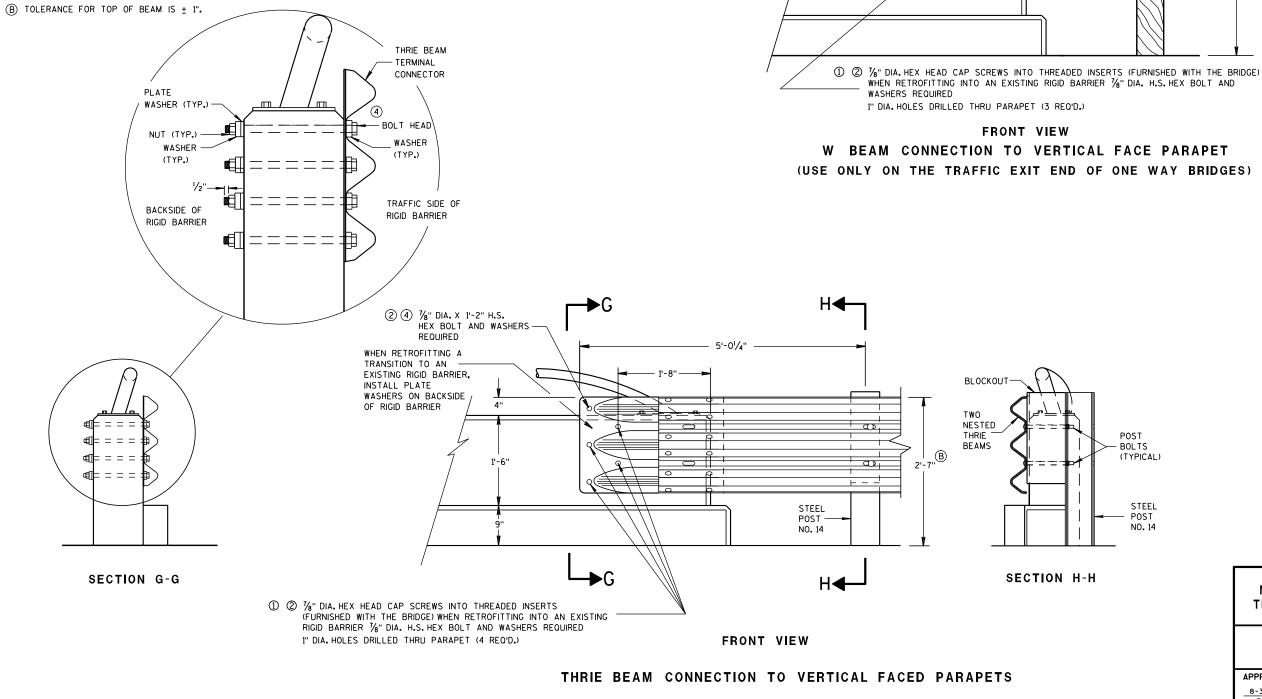




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THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

- (1) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- (2) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE, BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5%" THICK AND ONE PLATE WASHER REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- (3) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2". BLOCK IS INCIDENTAL TO THE CONTRACT.
- 4 BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.



② 1/8" DIA. X 1'-2" H.S.

REQUIRED

WHEN RETROFITTING

A TRANSITION TO

AN EXISTING RIGID

BARRIFR INSTALL -

PLATE WASHERS

ON BACKSIDE OF

RIGID BARRIER

HEX BOLT AND WASHERS

W BEAM TERMINAL -CONNECTOR

4

LIMIT OF STEEL PLATE

5'-0 1/4" -

4'-2 1/4"

- 3'-1¹/2'

MGS BEAM GUARD

ONE WAY

(B)

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MIDWEST GUARDRAIL SYSTEM

THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

/S/ Jerry H. Zogg

ROADWAY STANDARDS DEVELOPMENT

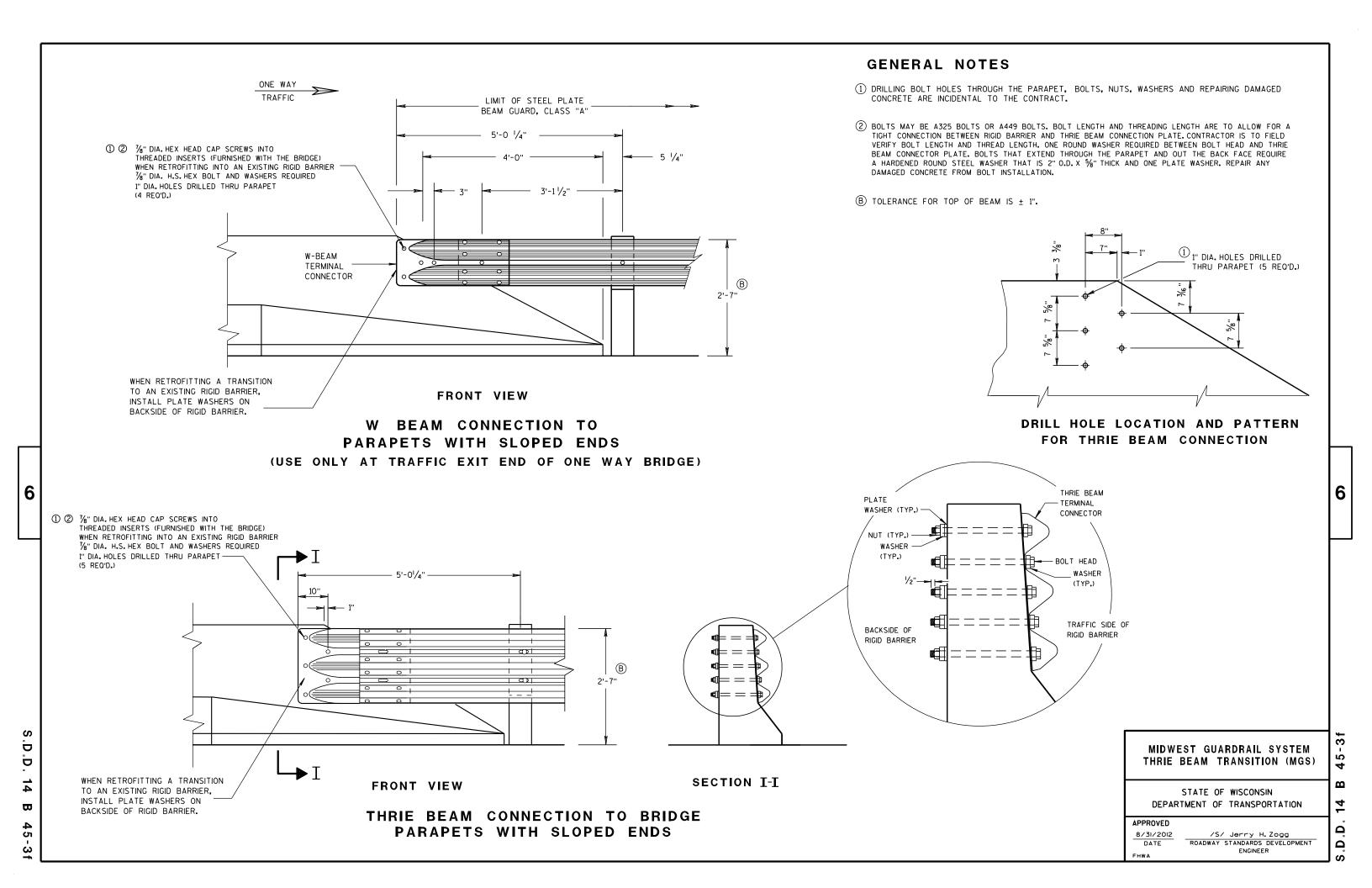
ENGINEER

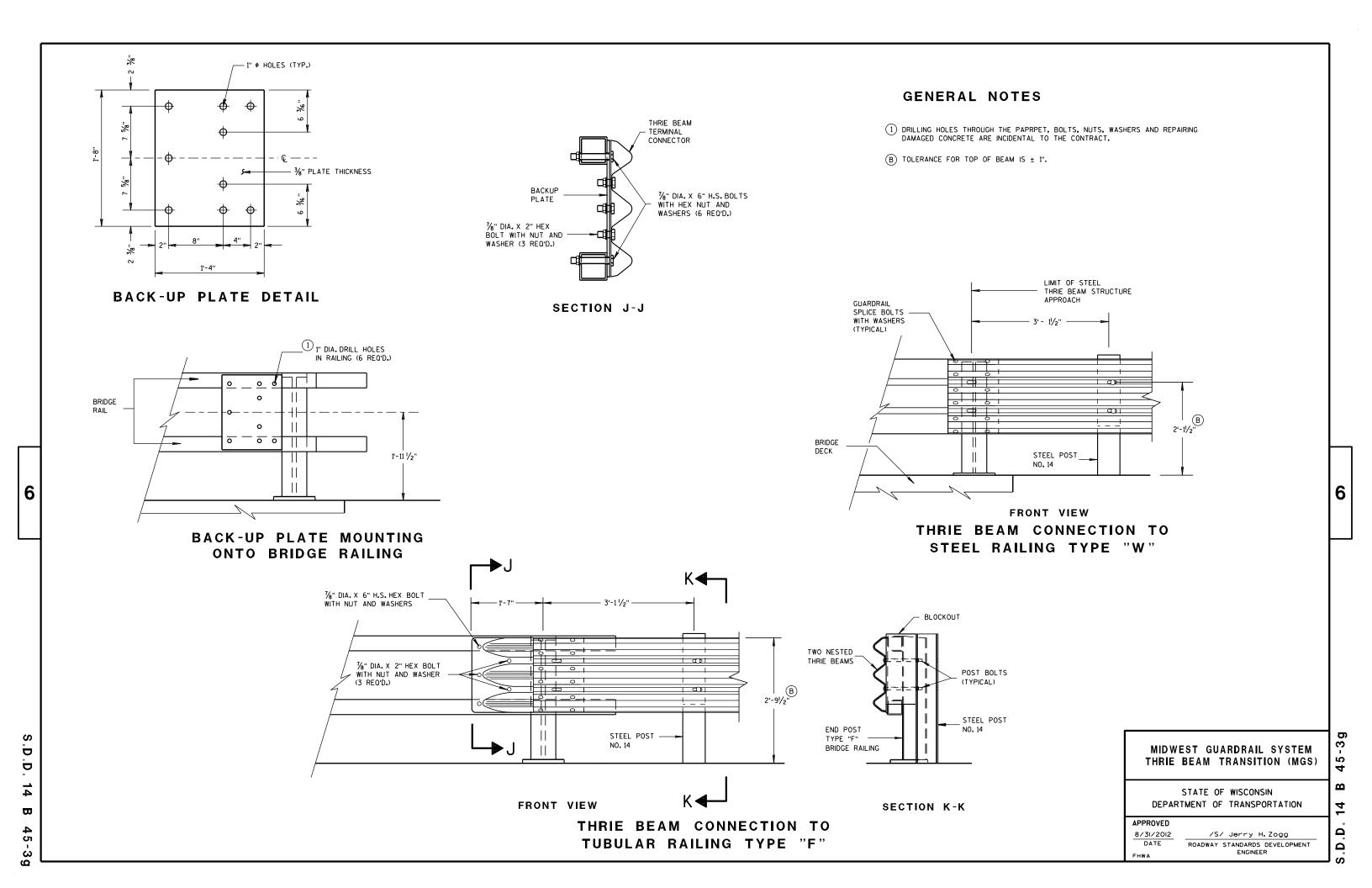
APPROVED

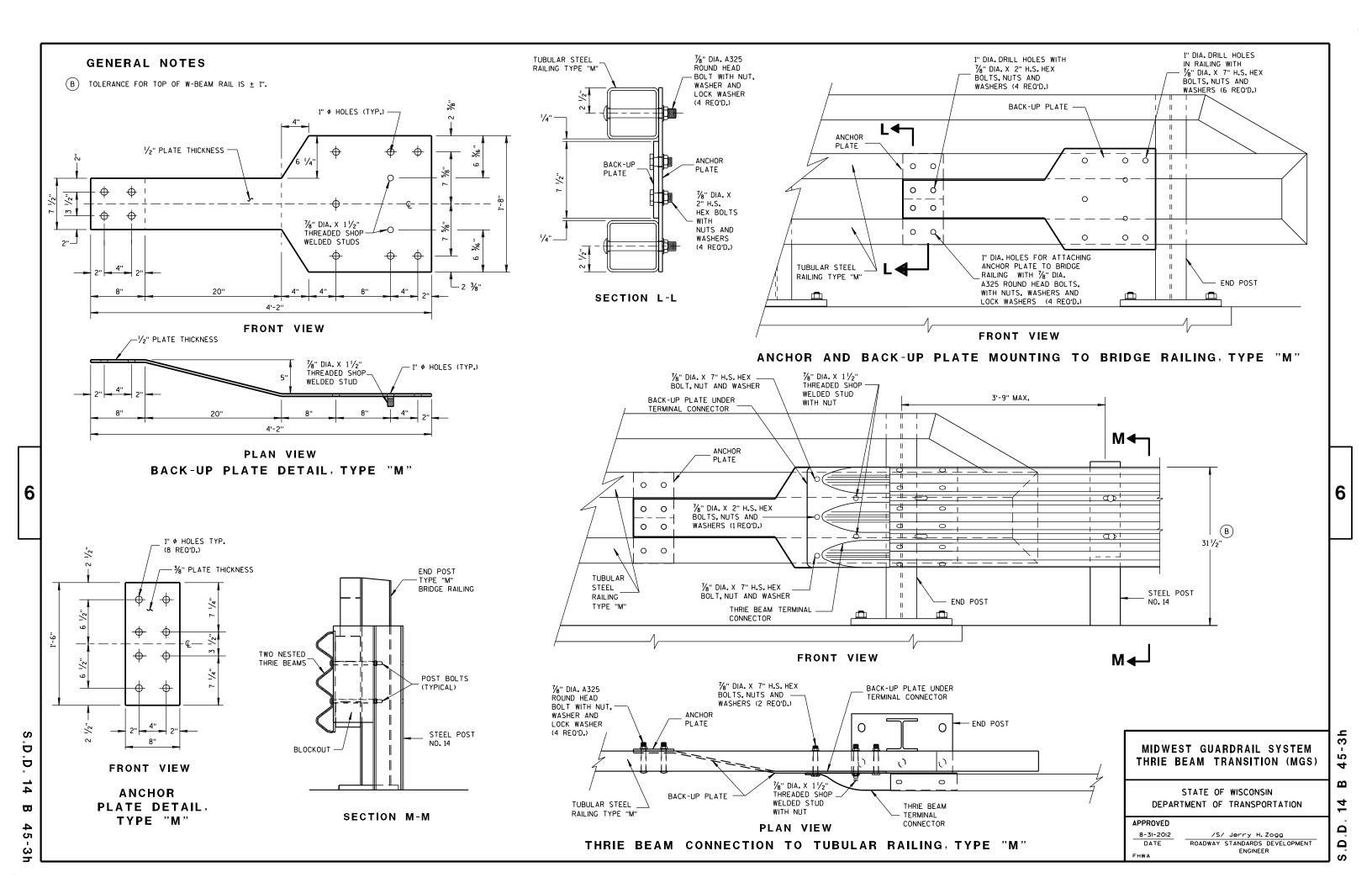
8-31-2012

2'-7"

TRAFFIC







(PER ASSEMBLY)					
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS	
P1	1	в₫	20" × 20"	3/6 "	
P2	1	B∱c	20" × 20" × 28%6"	¾6 "	
Р3	1	B C D	39" × 35/8" × 20" × 191/6"	3∕16 ''	
S1	4	B	18 1/6 " × 3 1/8" × 18 3/4"	1/4"	
S2	1	B C D	10 ¹ / ₄ " × 2 ¹ / ₁₆ " × 10 ³ / ₈ " × ¹ / ₂ "	1/4"	
S3	1	B C D	$3" \times 1^{1}/_{16}" \times 3^{1}/_{8}" \times 1^{1}/_{2}"$	1/4"	
S4	1	вД	6½" × 2½6"	1/4"	
S5	1	В	6½" × ½"	1/4"	
S6	1	В	7¾" × 1¾"	1/4"	
S7	1	A DC	2%6" × 6" × 3%" × 5%"	1/4"	
S8	1	A∰C	1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ "	1/4"	
S9	1	C ⊏	$6\frac{1}{16}$ " × $6\frac{3}{16}$ " × $1\frac{3}{32}$ "	1/4"	
S10	1	A D C	1%" × 9%" × 3%" × 911/16"	1/4"	
S11	1	C A	8½" × 8¾" × 1⅓6 "	1/4"	

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SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

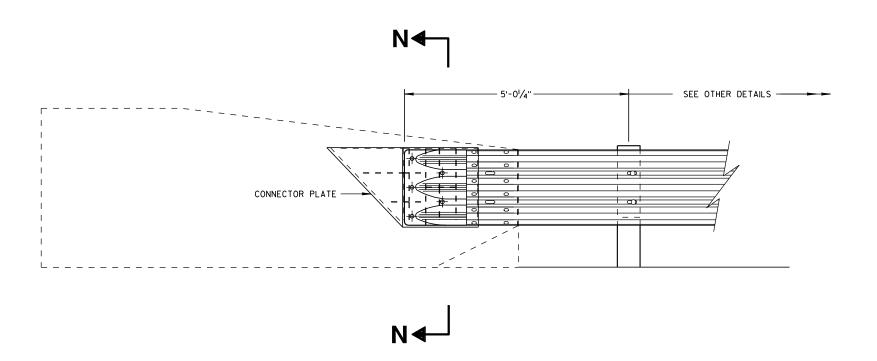
APPROVED

8/31/2012 /S/ Jerry H. Zogg

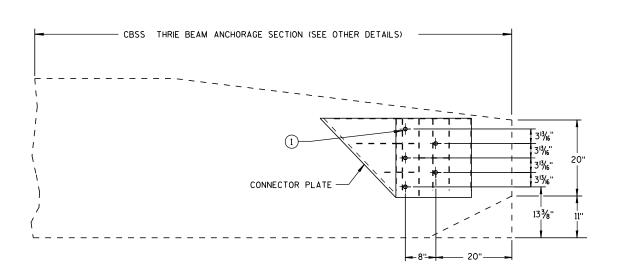
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

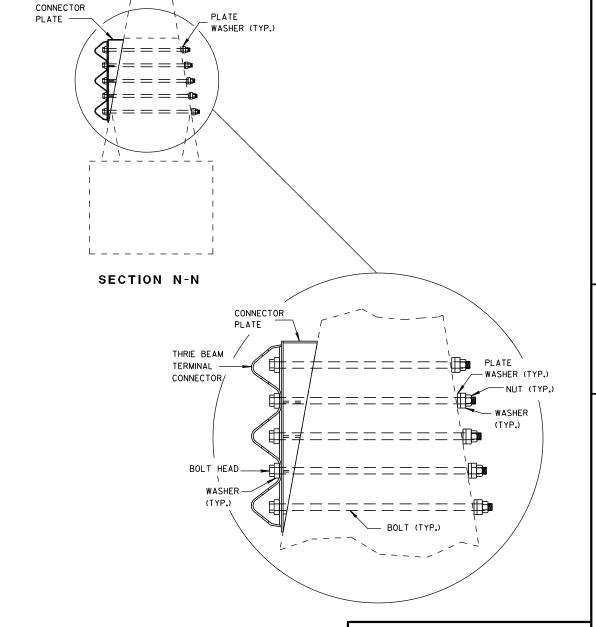


SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

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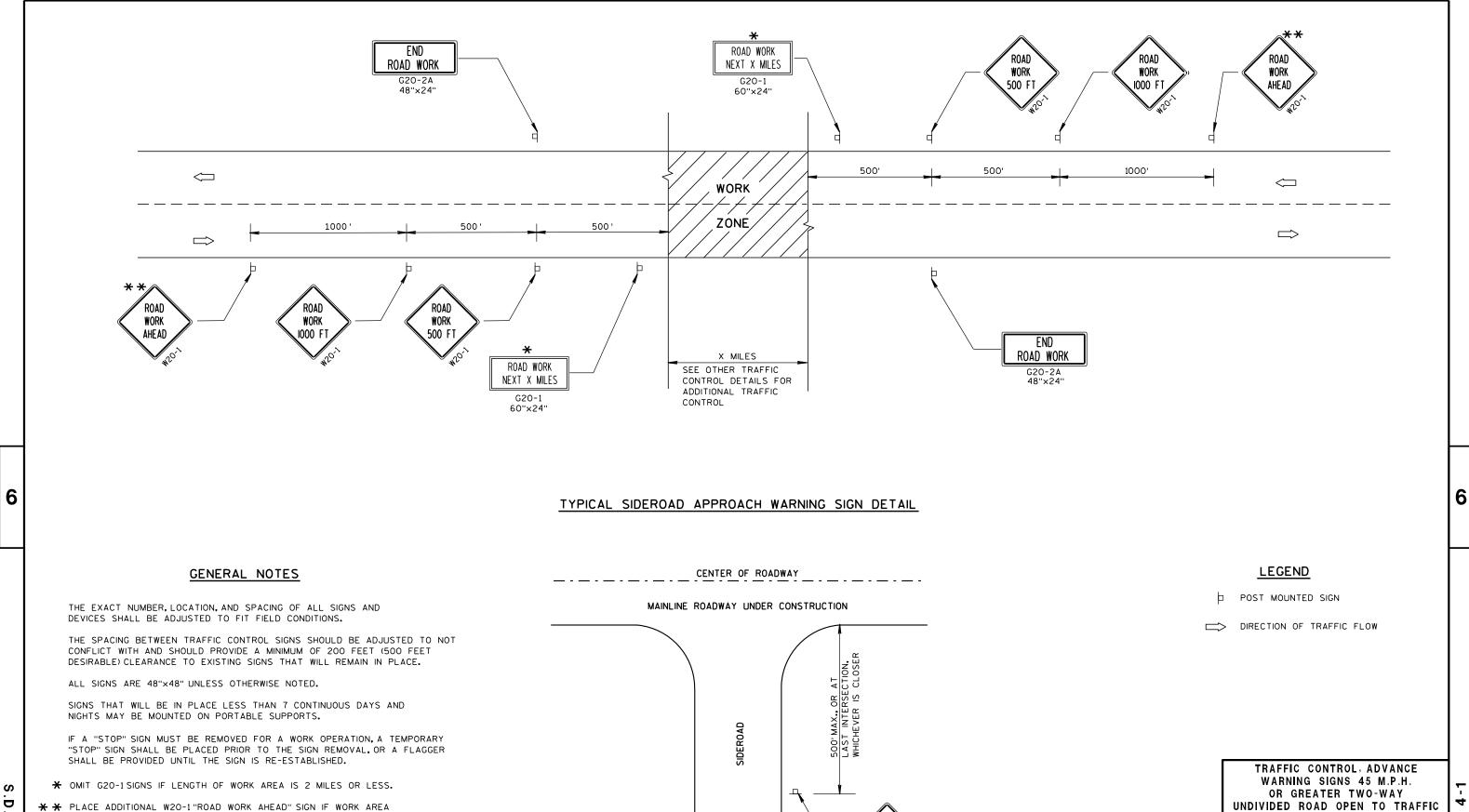
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 8/31/2012

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER







STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

/S/ Chester J. Spang
CHIEF SIGNS AND MARKING ENGINEER

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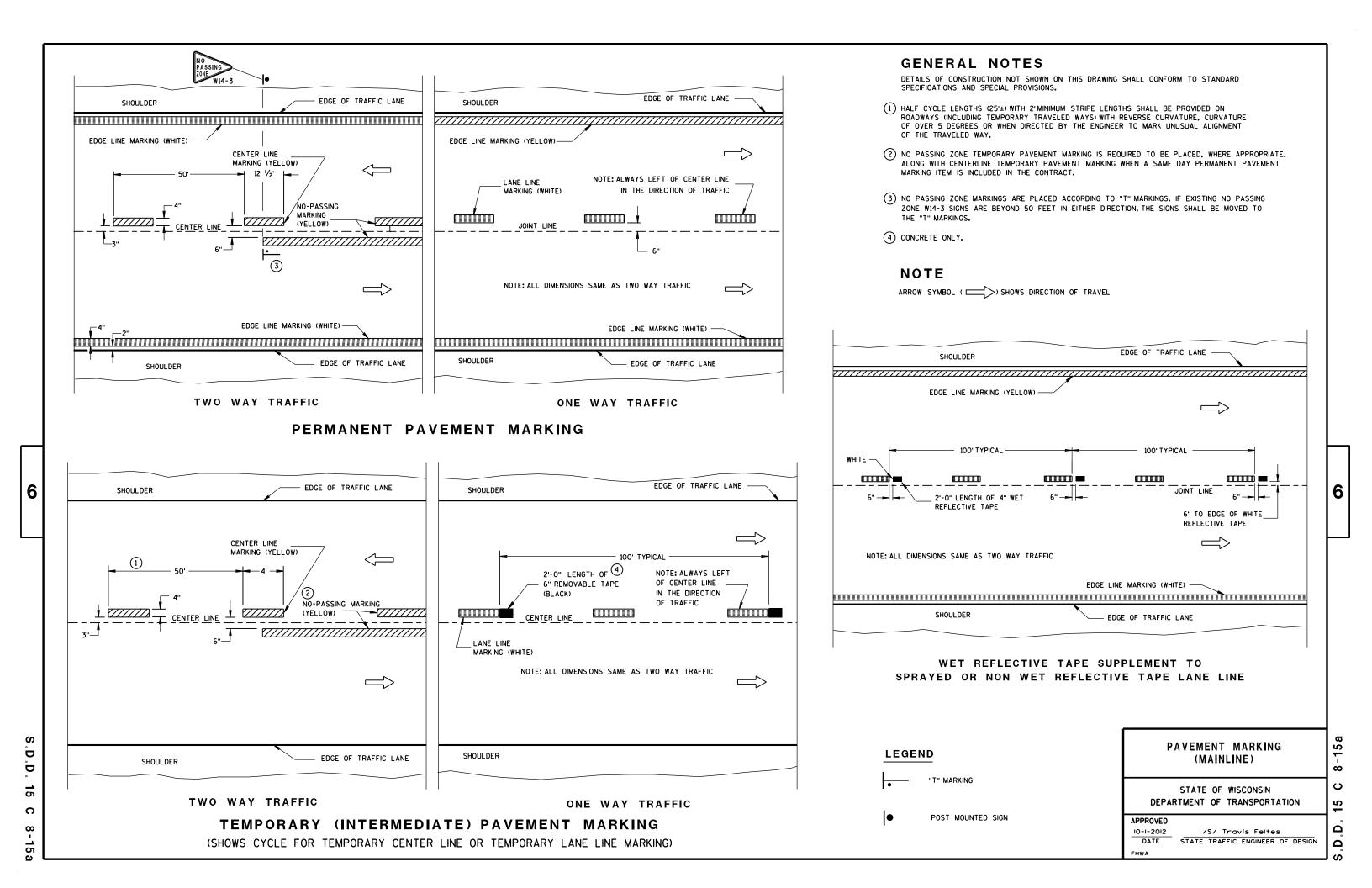
APPROVED

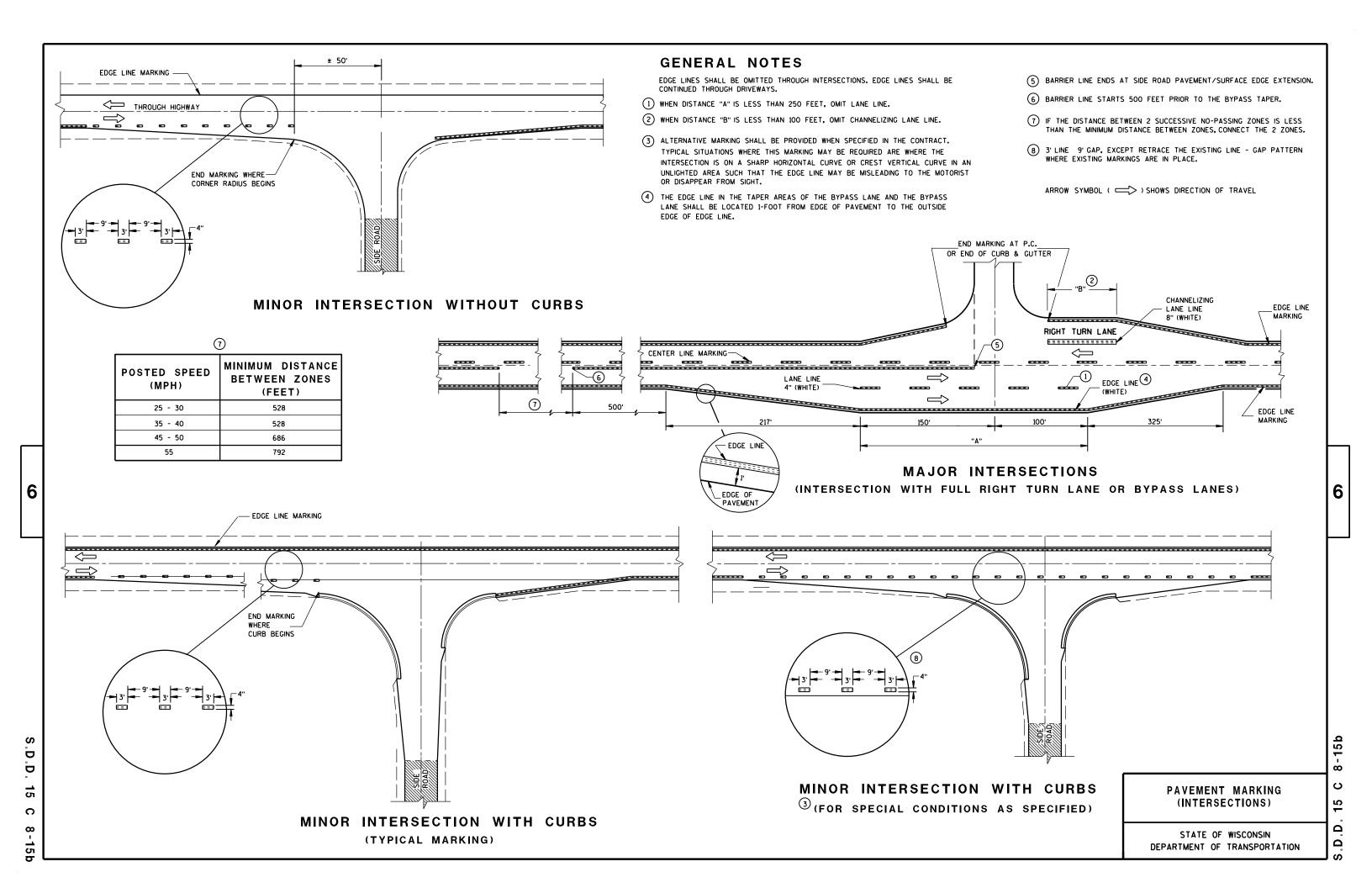
5/23/00

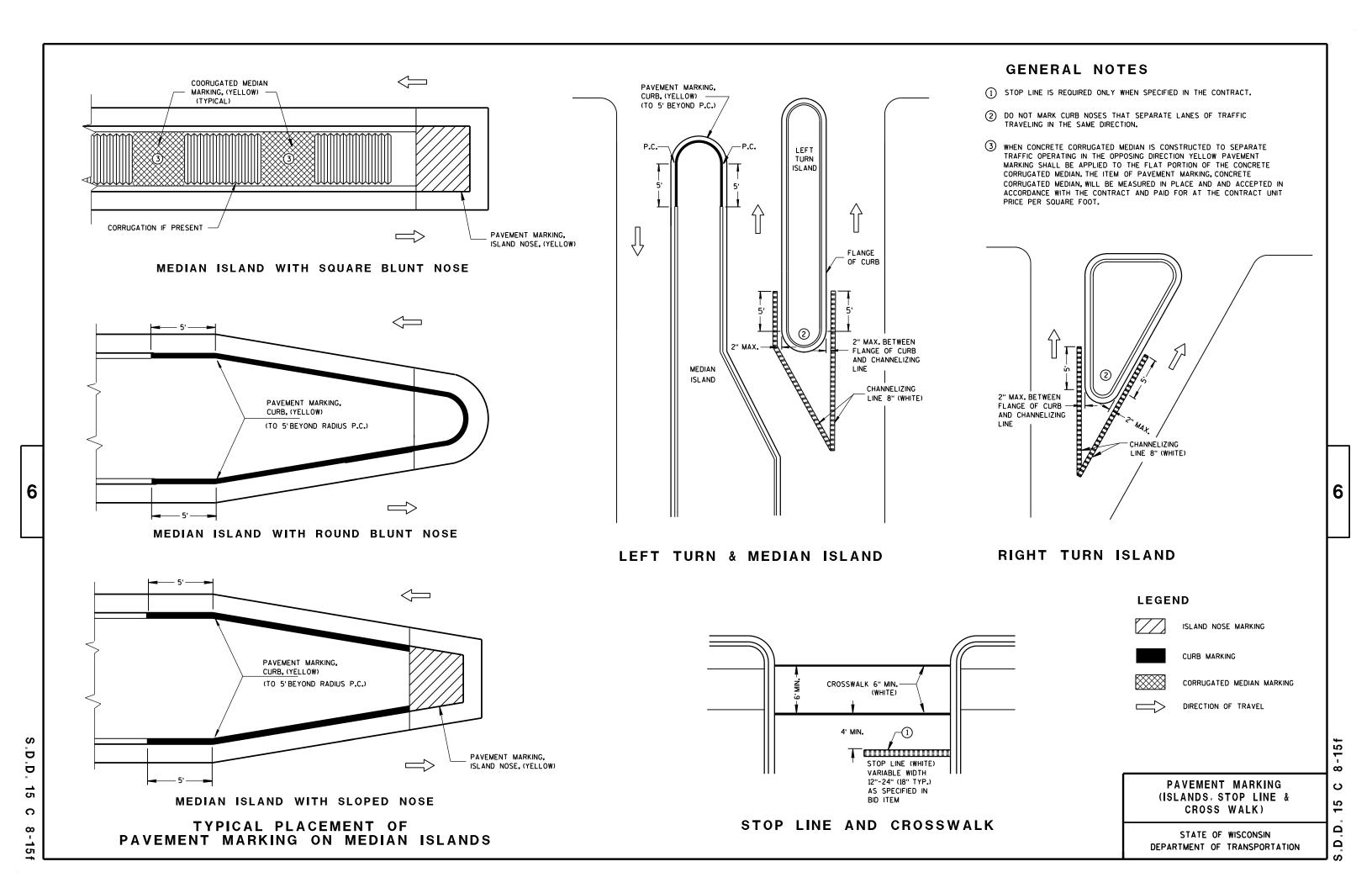
S.D.D. 15 C 4-1

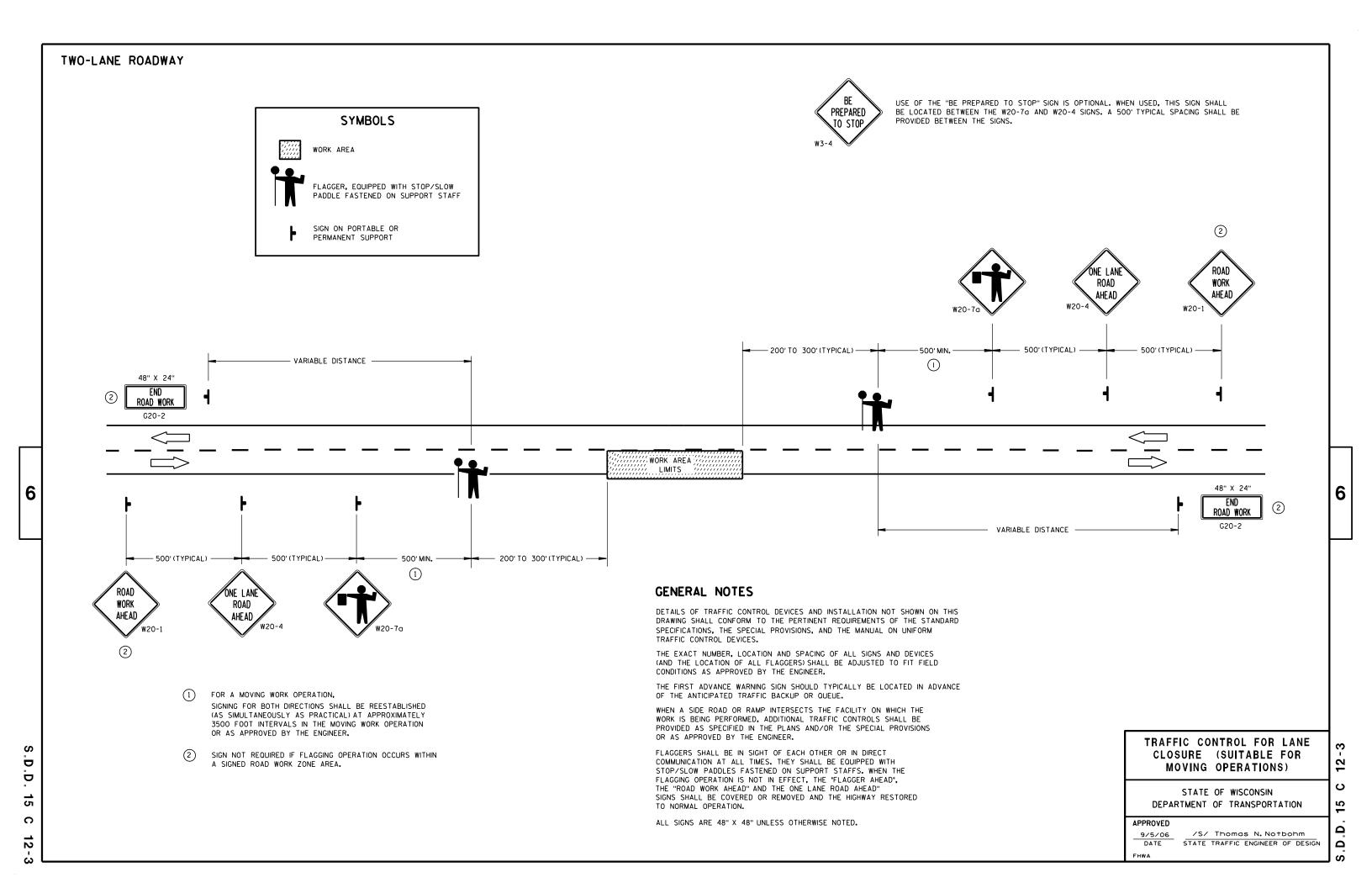
WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM

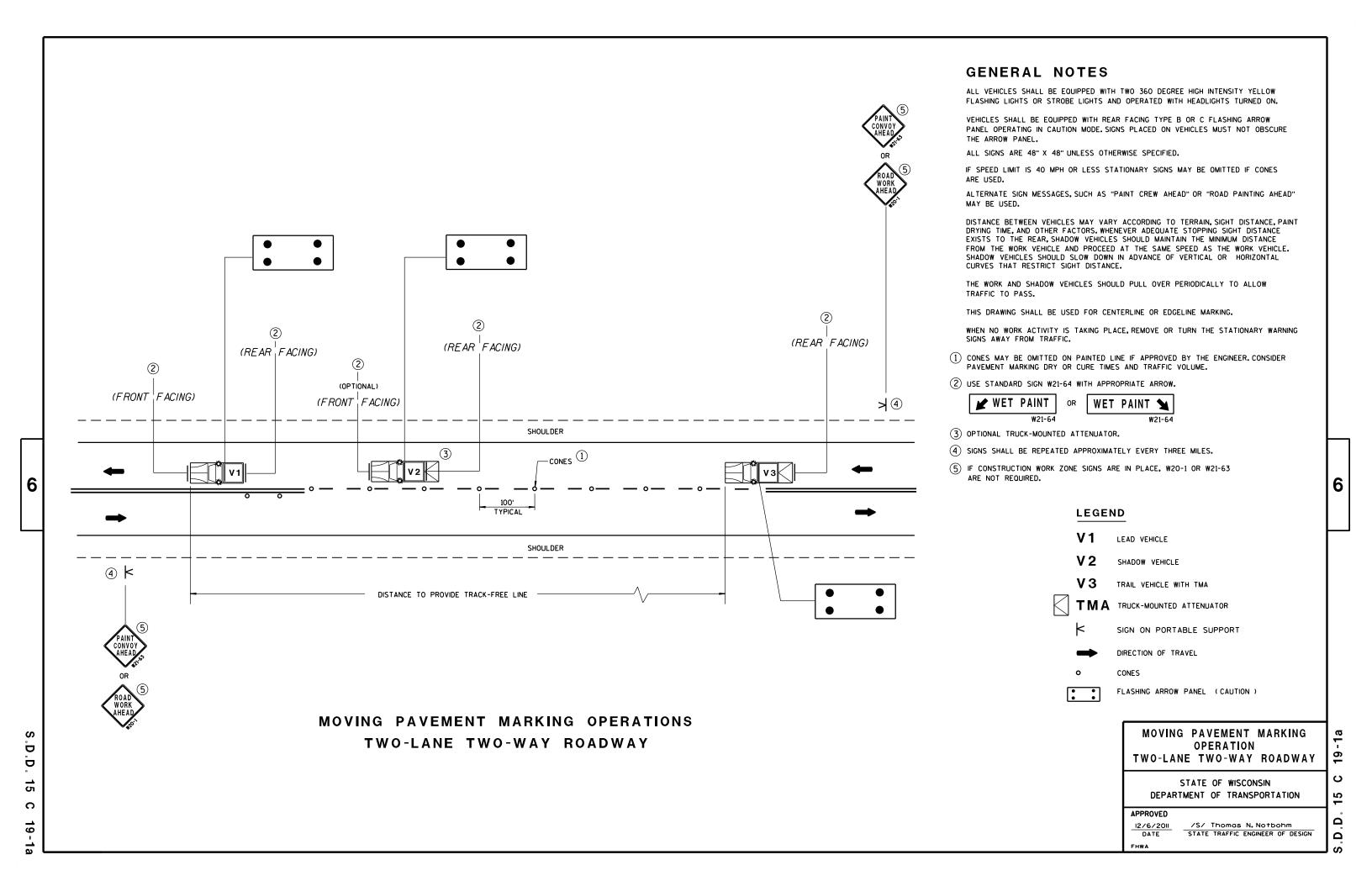
PREVIOUS WORK AREA OR SIGNING.

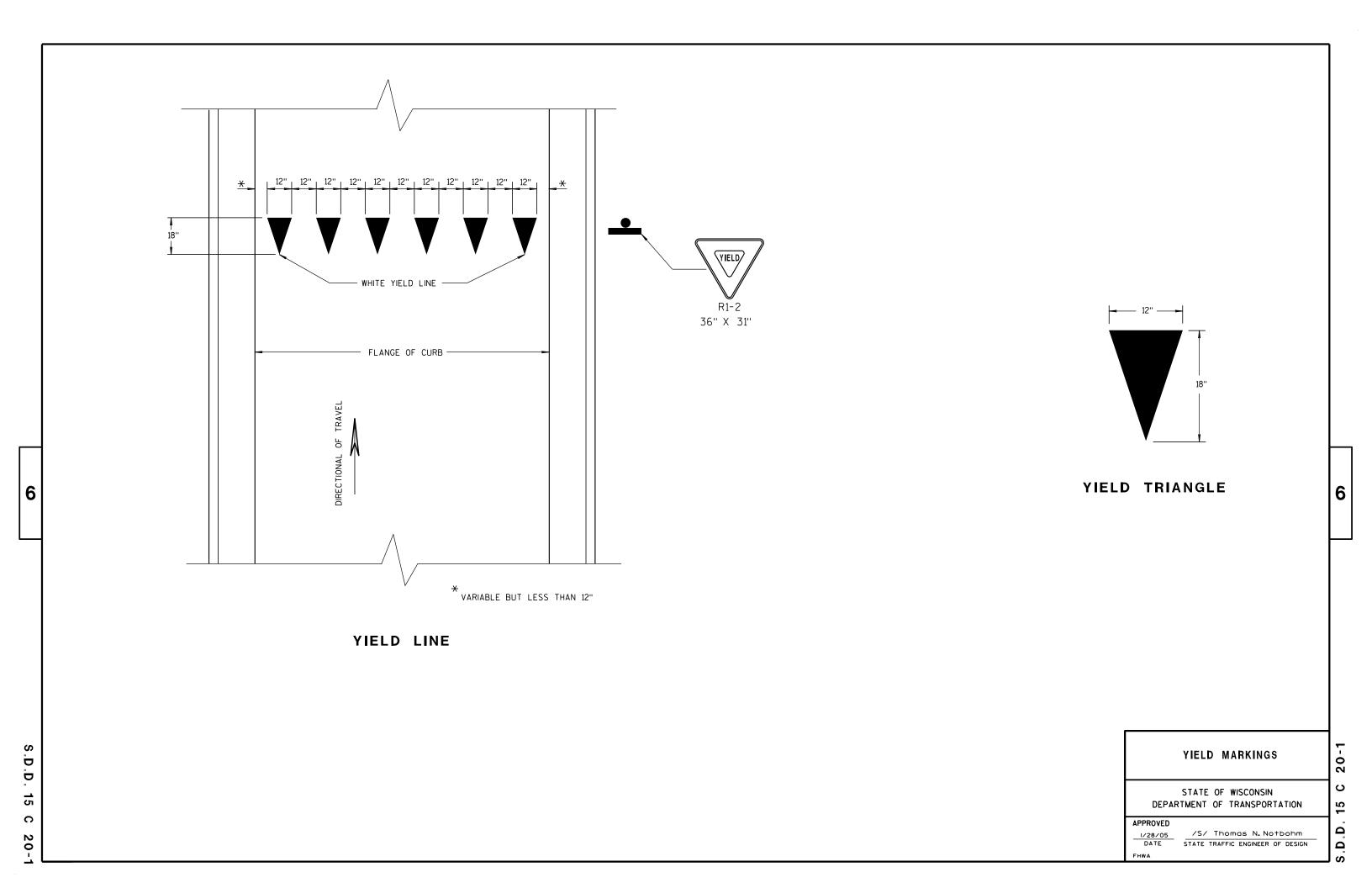


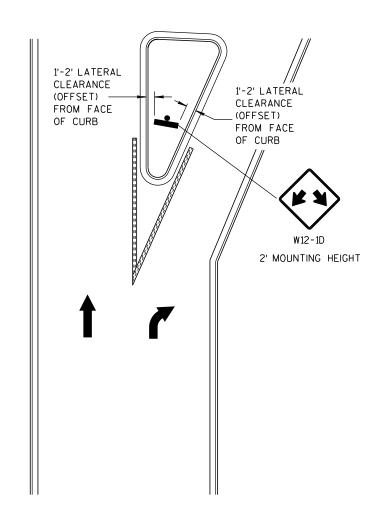




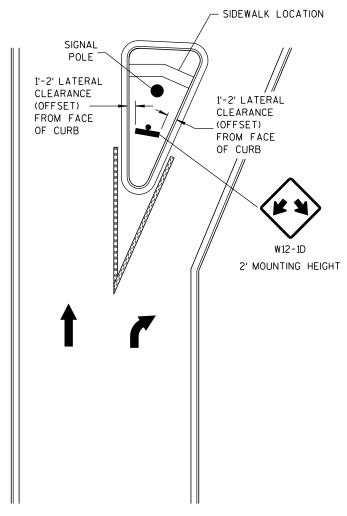




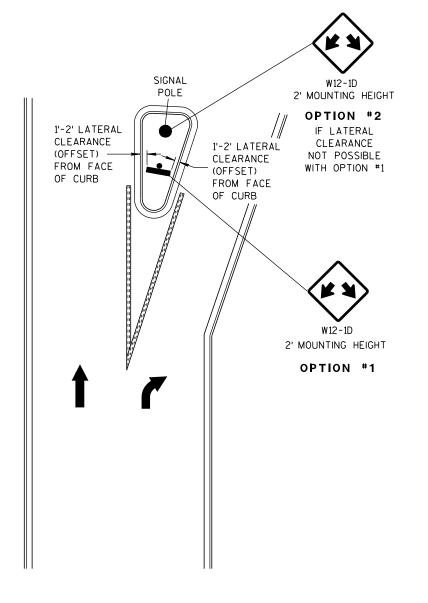




LARGE RIGHT TURN ISLAND



LARGE RIGHT TURN ISLAND WITH SIGNAL POLE



SMALL RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

DOUBLE ARROW WARNING SIGN PLACEMENT

27

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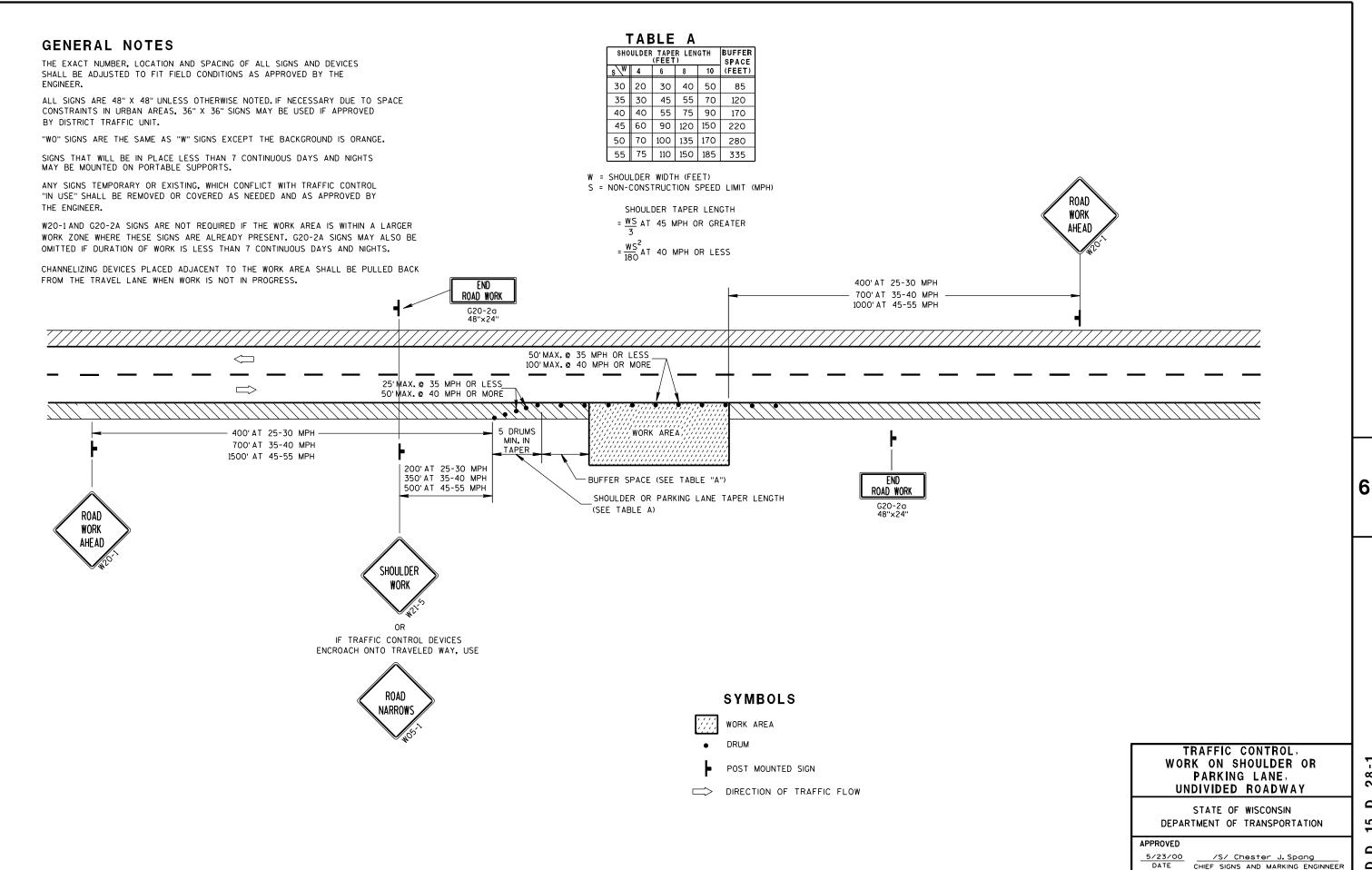
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Thomas N. Notbohm STATE TRAFFIC ENGINEER OF DESIGN 10-22-08

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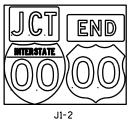
N Ω

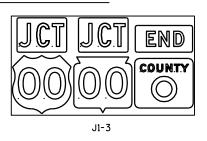
TYPICAL ASSEMBLIES



North

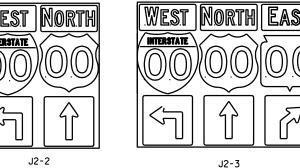
INTERSTATE

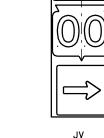




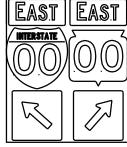


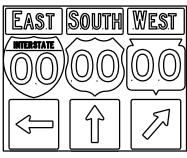






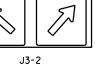
J2-1

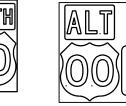


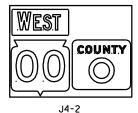


J3-3













EAST

J32-1

IMTERSTATE





J33-1





J23-1

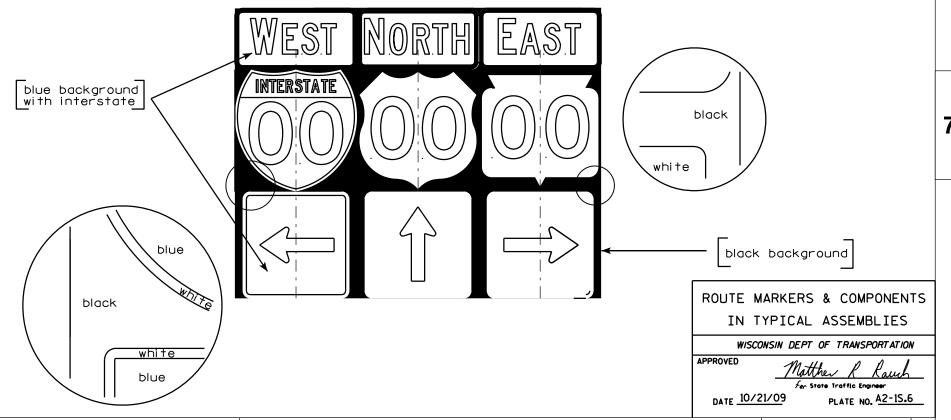


NOTES

- 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 since base material is plywood.
- 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 inchs (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.



PROJECT NO:

J13-1

COUNTY

FRONTAGE

ROAD

SHEET NO:

Ε



urban area

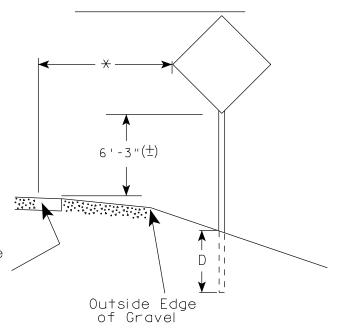
2' Min - 4' Max (See Note 5)

** Curb Flowline

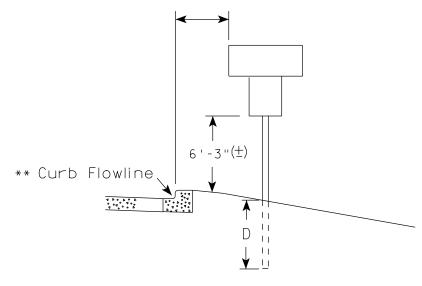
D

White Edgeline
Location

RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

** 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.

GENERAL NOTES

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

Matther R Raul For State Traffic Engineer

DATE <u>9/21/2011</u>

PLATE NO. <u>A4-3.16</u>

PROJECT NO:

HWY:

COUNTY:

PLOT DATE: 21-SEP-2011 13:33 PLOT BY: mscs id

PLOT NAME :

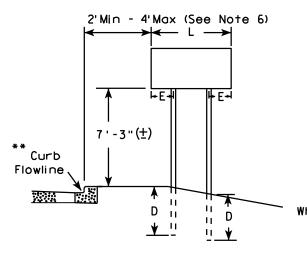
PLOT SCALE: 101.303739:1.000000

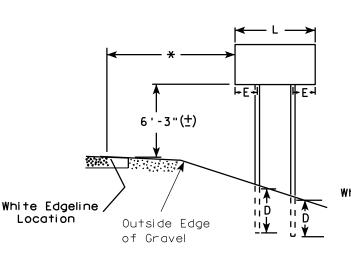
WISDOT/CADDS SHEET 42

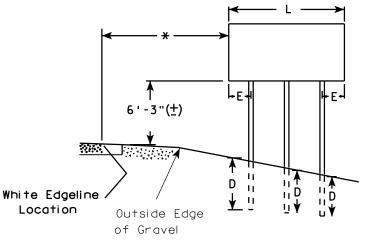
FILE NAME : C:\Users\PROJECTS\tr_stdplate\A43.DGN

URBAN AREA

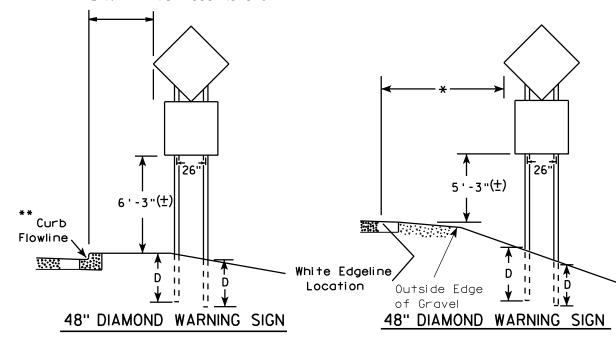
RURAL AREA (See Note 3)







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



SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 120" less than 168"	12"

COUNTY:

SIGN SHAPE OTHER THAN (FOUR POSTS REQUIRE	
L	E
168" and greater	12"

GENERAL NOTES

- 1. For multiple 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 (A4-5) 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 stop signs (R1-1F) 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) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (\pm).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- *** See A4-3 sign plate for signs 4' or less in width or 20 S.F. or less in area.

POST EMBEDMENT DEPTH

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

PLOT NAME :

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

PLATE NO. 44-4.11 DATE 9/21/2011

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\A44.DGN

Greater than 48"

Less than 60"

60" to 120"

* * *

PROJECT NO:

SIGN SHAPE OTHER THAN DIAMOND

Ε

12"

L/5

HWY:

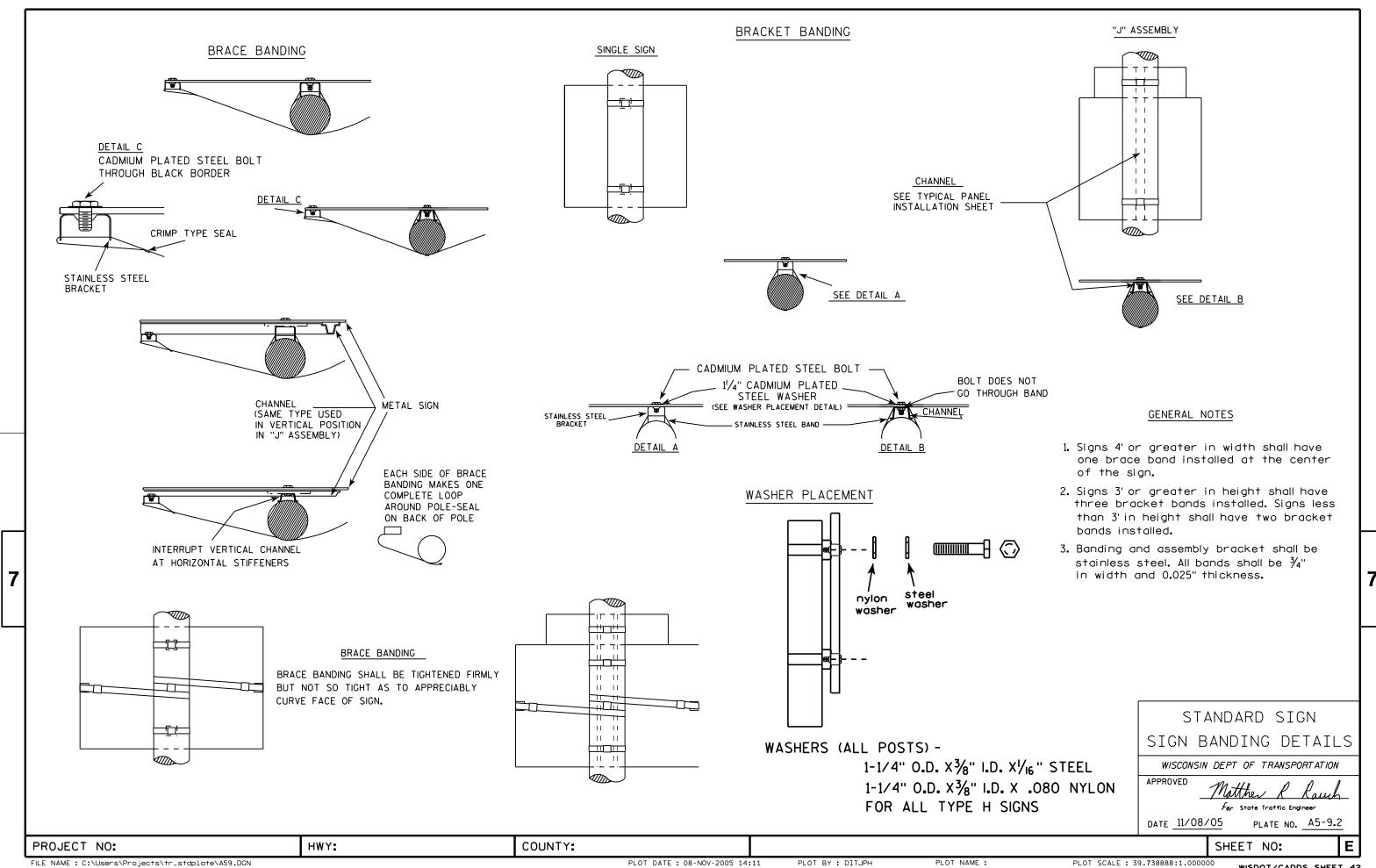
(TWO POSTS REQUIRED)

PLOT DATE: 21-SEP-2011 13:36

PLOT BY: mscsia

PLOT SCALE: 109.249131:1.000000



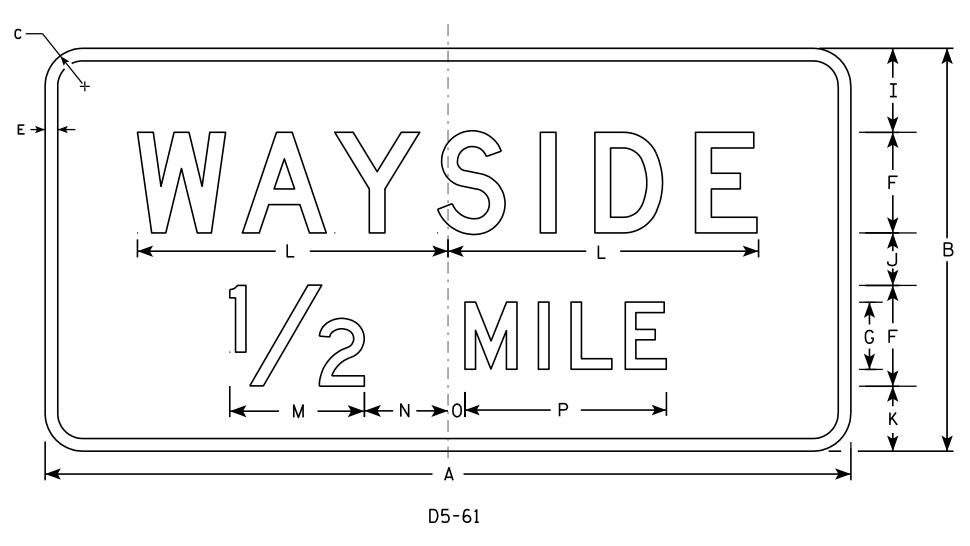




- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Blue Message - White

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



Metric equivalent for this sign is:

1200 mm X 600 mm 1950 mm X 1050 mm 5

21	IZE	A	В	ן נ	D	E	F	G	н	I	J	K	L	M	N	0	Ρ	Q	K	>	T	U	V	w	Х	Y	4		ı l
9	1																												
	2	48	24	2 1/4		₹4	6	4	6	5	3 1/8	3 %	18 1/2	8	5	1	12											8.0	0.72
5.6.	3																												
2.3.	4	78	42	3	·	1	10	7	10 1/2	8 3/4	5 ¾	7	30 1/8	14	8 3/4	1 3/4	21			·								22.8	2.05
· [5																												

STANDARD SIGN D5-61

WISCONSIN DEPT OF TRANSPORTATION

DATE 1/09/02 PLATE NO. D5-6

PLATE NO. D5-61.9

SHEET NO:

STATE PROJECT NUMBER:



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

- 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.

Metric equivalent for this sign is: 900 mm X 900 mm D7-82 3 5

4 1/2 2 1/2

9.0 0.81 APPROVED

STANDARD SIGN D7-82

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 10/04/05 PLATE NO.D7-82.1

SHEET NO:

FILE NAME : C:\Users\Projects\tr_stdplate\D782.DGN

2 1/4

3/4

6 1/4 6 3/8

SIZE

3

36

PROJECT NO:

PLOT DATE: 18-OCT-2005 08:44

14 % 10 1/2

3 1/4 9 5/8

U

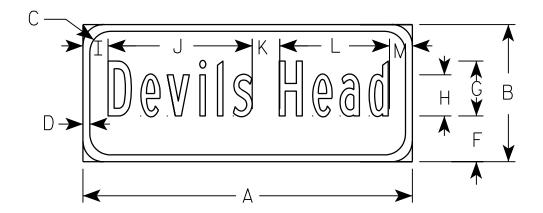
PLOT BY : DOTDZK



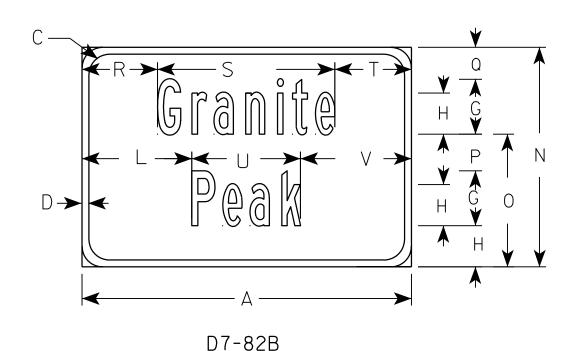
- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - BROWN Message - WHITE

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



D7-82A



Metric equivalent	Metric equivalent
for this sign is:	for this sign is:

SIZE	D7-82A	SIZE	D7-82B
1		1	
2	900 mm X 375 mm	2	900 mm X 600 mm
3		3	
4		4	
5		5	

																01-	OZA	1 01-	-02D											
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2	Area sq. ft.	Area m2
1																														
2	36	15	2 1/4	3/4		5	6	4 1/2	2 3/4	15 ¾	3	12	2 ½	24	14 1/2	4	3 ½	8 1/4	19 3/8	8 3/8	11 1/8	12 1/8					3.75	0.33	6.0	0.54
3																														
4																														
5																														

STANDARD SIGN D7-82A&B

WISCONSIN DEPT OF TRANSPORTATION

Matther R Rawh

For State Traffic Engineer

DATE 10/07/05 PLATE NO.D7-82A&B

SHEET NO:

FILE NAME : C:\Users\Projects\tr_stdplate\D78A&B.DGN

PROJECT NO:

PLOT DATE: 18-OCT-2005 08:52

PLOT BY : DOTDZK

WISDOT/CADDS SHEET 42

7

E → SPONSOR A F Y G Z F Z AF XA

HWY:

Background Colors of Symbol*

₽ 4

* VARIES

White Black Green Orange

 * $\!\!\!/_4$ " Black Border between each color of rainbow and border of rainbow

I 2 36 | 1 1/2 | 1/2 5/8 3 1/2 2 7/8 | 2 1/8 | 11 1/4 | 11 1/8 | 9 3/8 | 1 1/4 3/4 12 % 7 1/2 30 7.5 3 4 5

COUNTY:

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.

> STANDARD SIGN I55-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED for State Traffic Engineer

DATE 4/27/11 PLATE NO. 155-56.3

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\I5556.DGN

PROJECT NO:

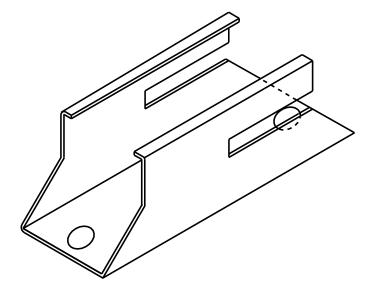
PLOT DATE: 27-APR-2011 10:05

PLOT BY: mscj9h

PLOT NAME :

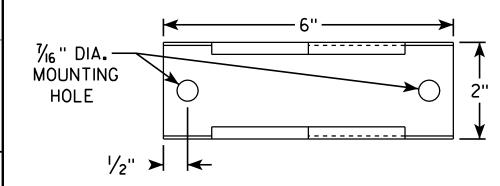
PLOT SCALE: 7.945391:1.000000

ISOMETRIC VIEW

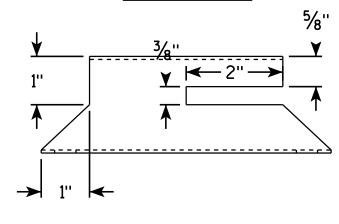


TOP VIEW

HWY:



SIDE VIEW

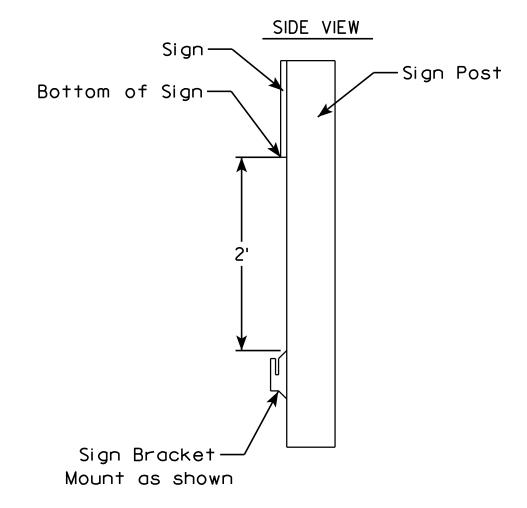


END VIEW **←** 2" →

COUNTY:

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 $\frac{1}{8}$ " radii.
- 5. Shall not have unrounded and uncoated metaledges which can contact the back surface of the roll-up sign.
- 6. Top of bracket shall be mounted 2' below the bottom of the 155-56 sign.
- 7. Cost of bracket and fastening hardware shall be incidental to the 155-56 sign.



ROLLUP SIGN BRACKET I55-56B

WISCONSIN DEPT OF TRANSPORTATION APPROVED

SHEET NO:

for State Traffic Engineer DATE 2/5/10 PLATE NO. 155-56B.1

PLOT NAME :

PLOT SCALE: 1.986348:1.000000

FILE NAME : C:\Users\PROJECTS\tr_stdplate\I5556B.DGN

PROJECT NO:

PLOT DATE: 01-MAR-2010 15:34

PLOT BY : ditjph

- 1. Sign is Type II See Note 6 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Top Red - Bottom Blue (See Note 6) Message - White - See Note 6

- 3. Message Series See note 5
- 4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
- 5. M1-1 Numerals D Interstate - C

M1-1A - All copy - C

6. Permanent Signs

Message - Type H Reflective

Detour or other temporary signs

Background - Reflective Message - Reflective

7

Metric equivalent for these signs are:

M1-1

HWY:

SIZE	M1 - 1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

																	M1 - 1	W1-1A	M1 - 1	W1-1A									
SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Area sq. ft.	Area sq. ft.	Area m2	Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 ½	15	24	17	7 1/8								30			3.13	3.91	. 36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36		·		3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4	·						·	45			7.03	8.79	. 81	1.05
5	36		·		3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 ½	11 3/4								45			7.03	8.79	. 81	1.05

COUNTY:

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew A

 f_{or} State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\Users\Projects\tr_stdplate\M11.DGN

PROJECT NO:

PLOT DATE: 13-0CT-2005 14:49

M1-1A

PLOT BY : DITJPH PLOT NAME :

PLOT SCALE: 7.947778:1.000000

- Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

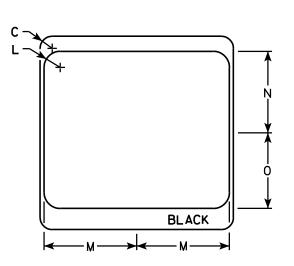
Background - White & Black - See Note 7 Message - Black

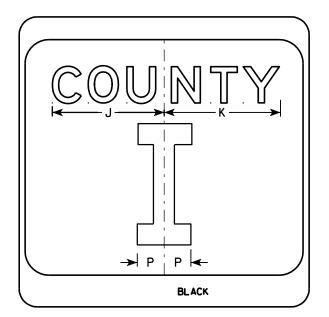
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

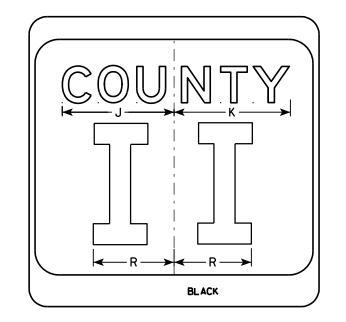
 Message Series D for 2 letters unless
 message is too big then Series C.

 Message Series C for 3 letters unless
 message is too big then Series B.
- 6. Substitute appropriate letters & optically center to achieve proper balance.
- 7. Permanent Signs

Background - Type H Reflective Detour or temporary Signs Background - Reflective







PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 %									4.0
3	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
DDO	IECT	NO.					111	/V.					COUN	TV.													
FRU	JECT	NO.					HV	V I .						I I .					I								

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

PROVED

Matthew Rauch

Forstate Traffic Engineer

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

DATE 9/27/11

SHEET NO:

BLACK

M1-5A

- 1. Sign is Type II See Note 6 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White & Black - See Note 6 Message - Black

- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
- 6. Permanent Signs
 Background Type H Reflective
 Detour or temporary Signs
 Background Reflective

BLACK	↑ G → ↑ F → → ↑ → → → → → → → → → →
Metric equivalent for this sign is:	

HWY:

900 mm X 900 mm

5 900 mm X 900 mm

PROJECT NO:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 %	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0	. 36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	. 81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
ט ן	26		2 /4			10	0 74	J /4	12 78	3 78	12 78	11 /8	1 /2	² /8	10 /8	33												9.0

COUNTY:

STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

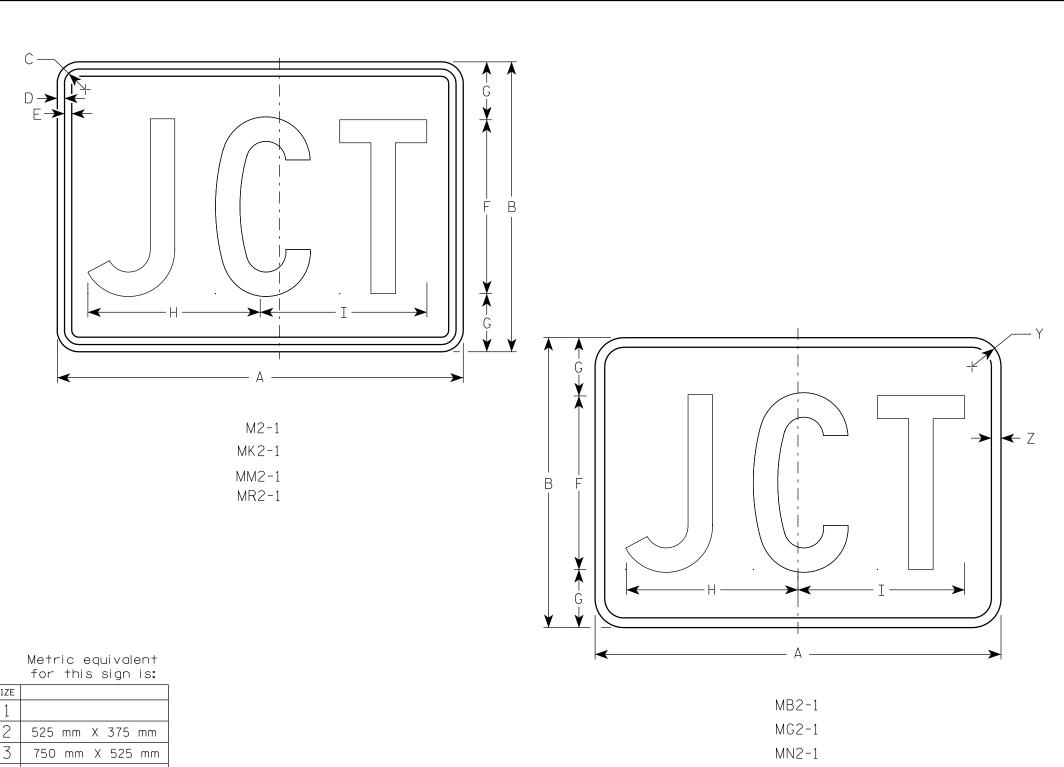
APPROVED

The state Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

SHEET NO:

PLOT NAME :



- 1. Sign is Type II See Note 5 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series 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 Type H Reflective (Detour or temporary Signs - Reflective) Message - Black
 - MB2-1 Background Blue Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
 - MG2-1 Background Green Message - White - Type H Reflective
 - MK2-1 Background Green Message - White - Type H Reflective
 - MM2-1 Background White Type H Reflective Message - Green
 - MN2-1 Background Brown Message - White - Type H Reflective
 - MR2-1 Background Brown Message - Yellow - Type H Reflective

750 mm X 525 mm 750 mm X 525 mm

PROJECT NO:

SIZE	Ξ.	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.	Area m2
1																													
2	2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 %																1 1/2	1/2	2.20	0.20
3	3	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40	0.20
4	-	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40	0.20
5	-	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40	0.20

COUNTY:

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 f_{or} State Traffic Engineer

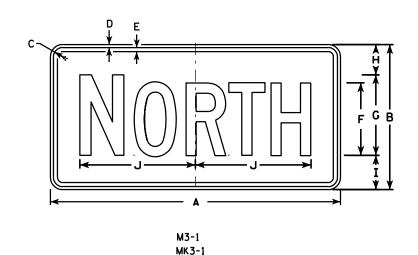
DATE 3/16/10

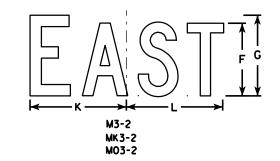
PLATE NO. M2-1.10 SHEET NO:

WISDOT/CADDS SHEET 42

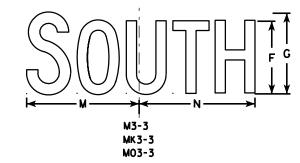
PLOT NAME : PLOT DATE: 16-MAR-2010 09:49 PLOT SCALE: 4.965868:1.000000 PLOT BY: dotsja

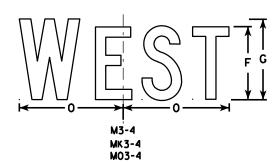
HWY:



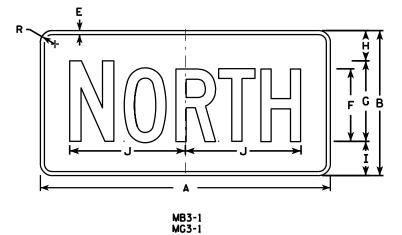


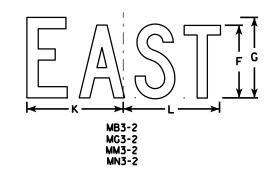
MO3-1





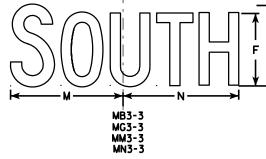
HWY:

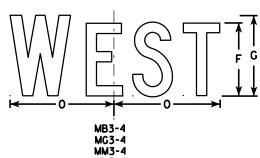




MM3-1

MN3-1





<u>NOTES</u>

- 1. All Signs Type II See Note 5 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M3-1 thru M3-4 Background White Type H Reflective (Detour or temporary signs Reflective) Message Black
 - MB3-1 thru MB3-4 Background Blue Message - White - Type H Reflective (Detour or temporary signs - Reflective)
 - MG3-1 thru MG3-4 Background Green

 Message White Type H Reflective
 - MK3-1 thru MK3-4 Background Green

 Message White Type H Reflective
 - MM3-1 thru MM3-4 Background White Type H Reflective Message Green
 - MN3-1 thru MN3-4 Background Brown
 Message White Type H Reflective
 - M03-1 thru M03-4 Background Orange Reflective Message Black
- 6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	כ	٧	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 1/8	8 3/8	10 1/4	9 3/4	8 ¾			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

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

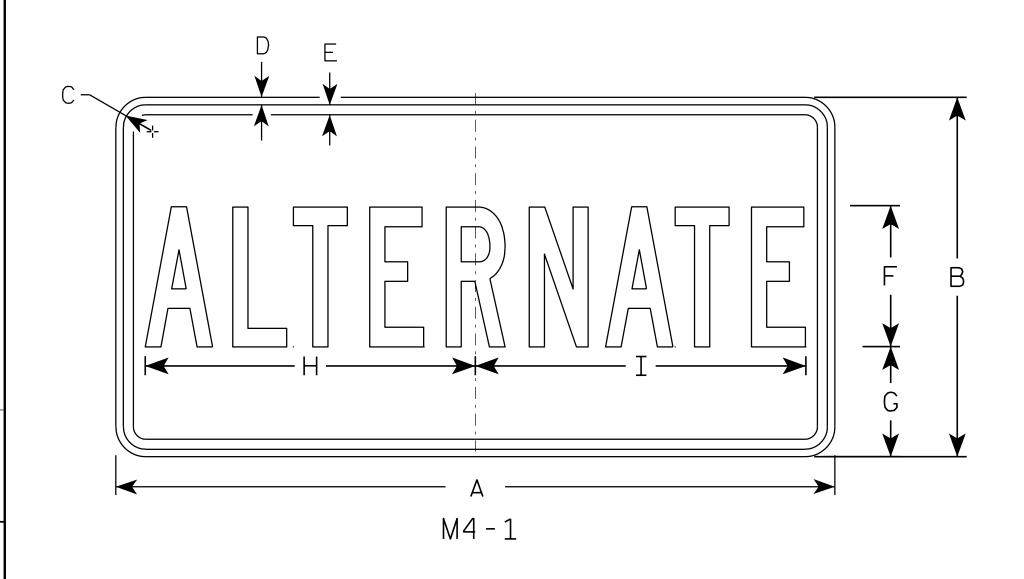
For State Traffic Engineer

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

SHEET NO: E

PROJECT NO:

PLOT NAME :



- 1. Sign is Type II See Note 5 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See Note 5 Message - See note 5

- 3. Message Series B
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M4-1 Background White Type H Reflective Message Black
 - MB4-1 Background Blue Message - White - Type H Reflective
 - M04-1 Background Orange Reflective Message - Black

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3⁄8	4	4	9 3/4	9 1/2																		2.00
3	36	18	1 1/2	3/8	1/2	7	5 1/2	16 3/8	16 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	7	5 1/2	16 3/8	16 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	7	5 1/2	16 3/8	16 1/2																		4.5

COUNTY:

STANDARD SIGN M4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rawh

For State Traffic Engineer

DATE 11/10/10

CUEET NO.

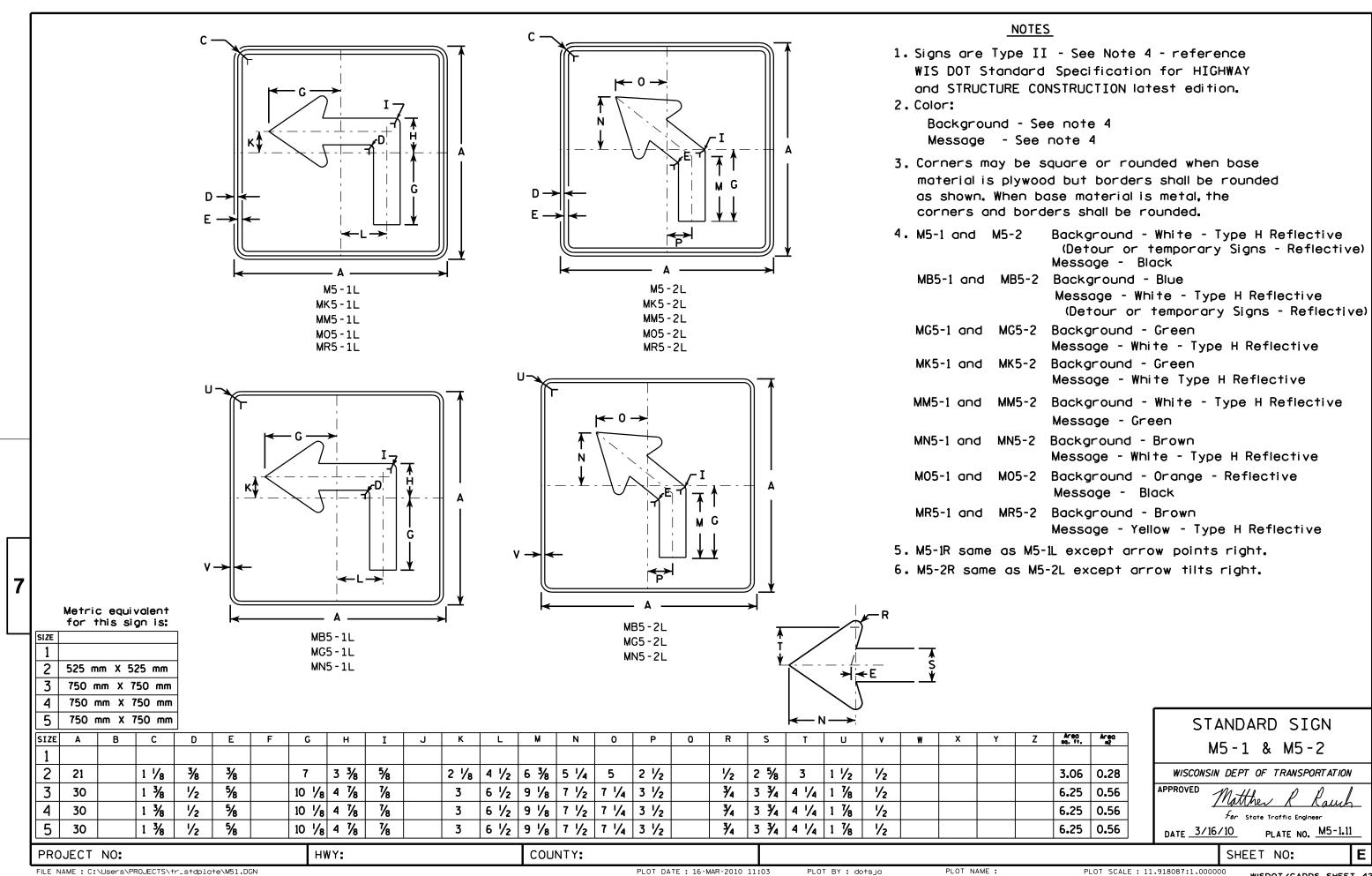
SHEET NO:

PROJECT NO:

HWY:

PLOT NAME :

PLATE NO. M4-1.7

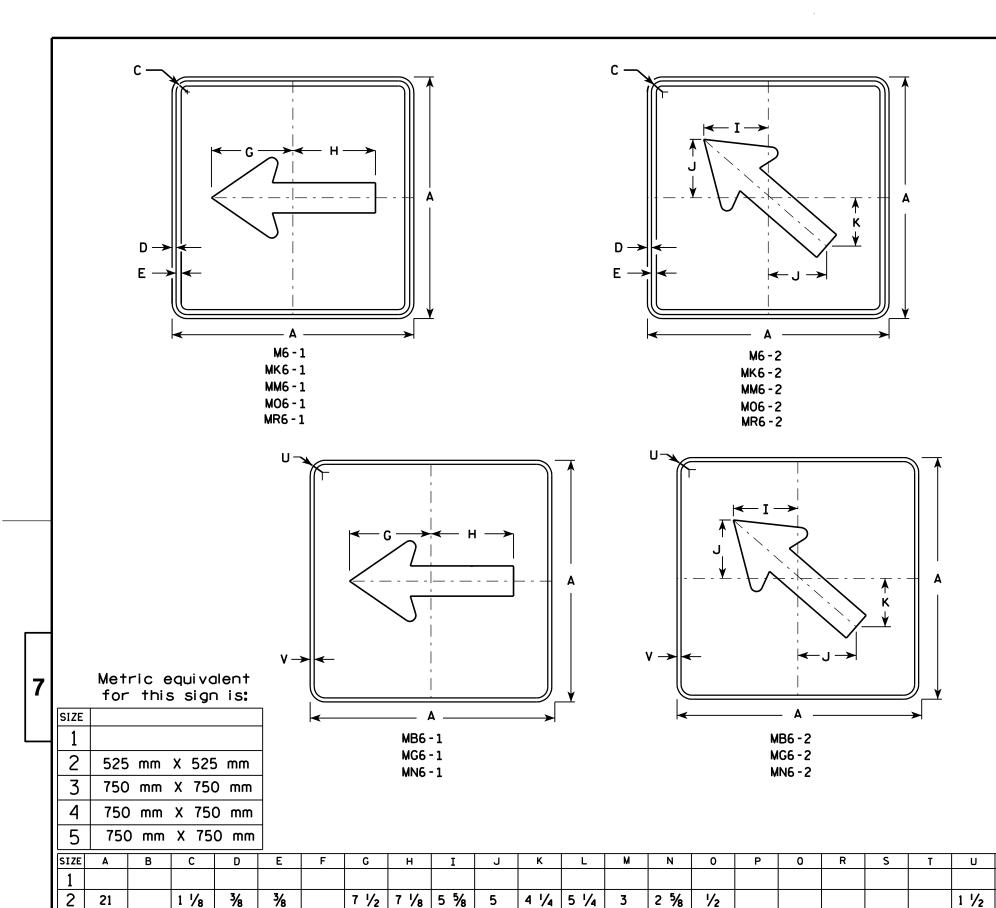


FILE NAME : C:\Users\PROJECTS\tr_stdplate\M51.DGN

PLOT DATE: 16-MAR-2010 11:03

PLOT NAME :

PLOT SCALE: 11.918087:1.000000



- 1. Signs are Type II See Note 4 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-1 and M6-2 Background White Type H Reflective
 (Detour or temporary Signs Reflective)
 Message Black
 - MB6-1 and MB6-2 Background Blue

 Message White Type H Reflective

 (Detour or temporary Signs Reflective)
 - MG6-1 and MG6-2 Background Green

 Message White Type H Reflective
 - MK6-1 and MK6-2 Background Green

 Message White Type H Reflective
 - MM6-1 and MM6-2 Background White Type H Reflective Message Green
 - MN6-1 and MN6-2 Background Brown

 Message White Type H Reflective
- M06-1 and M06-2 Background Orange Reflective Message - Black

Area Area sq. ft. m2

6.25 0.56

0.28

0.56

0.56

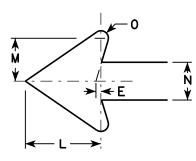
3.06

6.25

6.25

MR6-1 and MR6-2 Background - Brown

Message - Yellow - Type H Reflective



1/2

1/2

1/2

1 1/8

1 %

1 %

PLOT BY: dotsja

STANDARD	SIGN
M6-1 & N	16 - 2
SERIE	ES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 3/16/10 PLATE NO. M6-1.12

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M61.DGN

1 3/8

1 3/8

1 3/8

1/2

1/2

1/2

5/8

5/8

10 3/4 10 1/4 8

10 3/4 10 1/4 8

10 3/4 10 1/4 8

HWY:

7 1/4

7 1/4

7 1/4

6

6

7 1/2

7 1/2

4 1/4 3 3/4

4 1/4 3 3/4

COUNTY:

7 1/2 4 1/4 3 3/4

3

4

5

30

30

30

PROJECT NO:

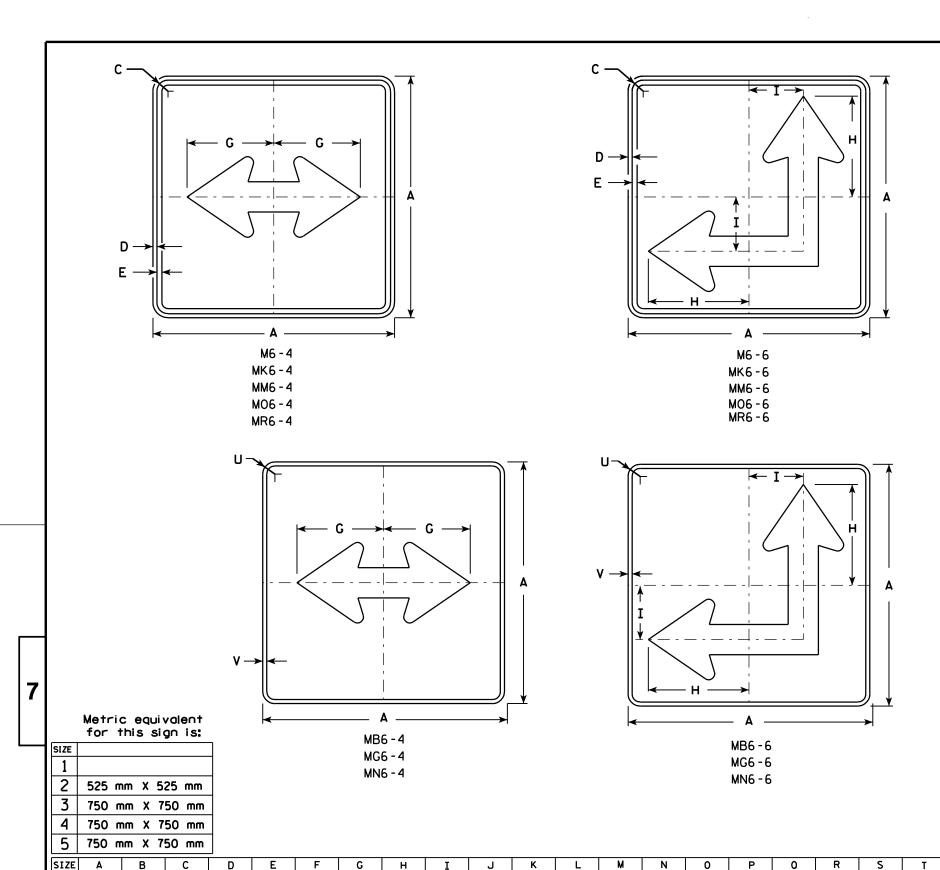
PLOT DATE: 16-MAR-2010 09:58

3/4

3/4

PLOT NAME :

PLOT SCALE: 11.918087:1.000000



- 1. Signs are Type II See Note 4 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - See Note 4 Message - See Note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-4 and M6-6 Background White Type H Reflective (Detour or temporary Signs - Reflective) Message - Black
 - MB6-4 and MB6-6 Background Blue Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
 - MG6-4 and MG6-6 Background - Green Message - White - Type H Reflective
 - MK6-4 and MK6-6 Background Green
 - Message White Type H Reflective MM6-4 and MM6-6 Background - White - Type H Reflective Message - Green
 - MN6-4 and MN6-6 Background Brown
 - Message White Type H Reflective M06-4 and M06-6 Background - Orange - Reflective
 - Message Black
- MR6-4 and MR6-6 Background Brown
- Message Yellow Type H Reflective 5. M6-6R same as M6-6L except arrow points ahead and right.

Areo Areo

6.25 0.56

0.28

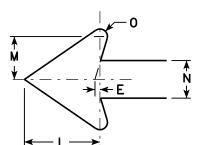
0.56

0.56

3.06

6.25

6.25



*************************************	-0	
M V	/ 	— -
←	_L_	

STANDARD SIGN M6-4 & M6-6 **SERIES**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

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

SHEET NO:

Н

7 1/2 8 3/4 4 1/4

10 3/4 12 1/2 6 3/4

10 3/4 12 1/2 6 3/4

10 3/4 12 1/2 6 3/4

HWY:

I

J

COUNTY:

PLOT DATE: 16-MAR-2010 11:24

1/2

3/4

3/4

2 %

5 1/4

3

7 1/2 4 1/4 3 3/4

7 1/2 | 4 1/4 | 3 3/4

4 1/4 3 3/4

PLOT BY: dotsja

1 1/2

1 1/8

1 %

1 %

٧

1/2

1/2

1/2

1/2

W

PLOT NAME :

PLOT SCALE: 11.918087:1.000000

WISDOT/CADDS SHEET 42

1 1/8

1 3/8

1 3/8

1 3/8

3/8

1/2

1/2

1/2

3/8

5/8

5/8

2

3

4

5

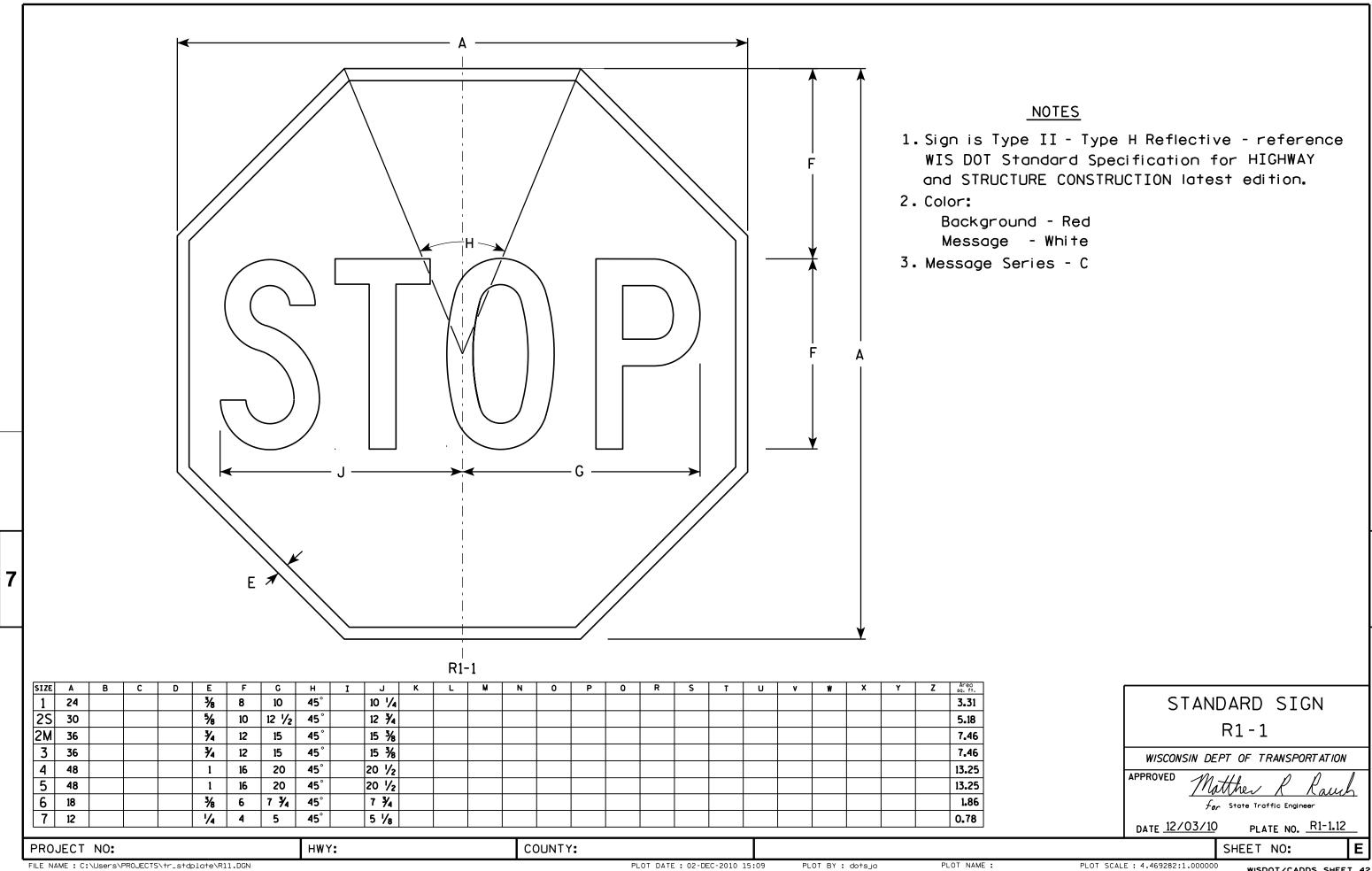
21

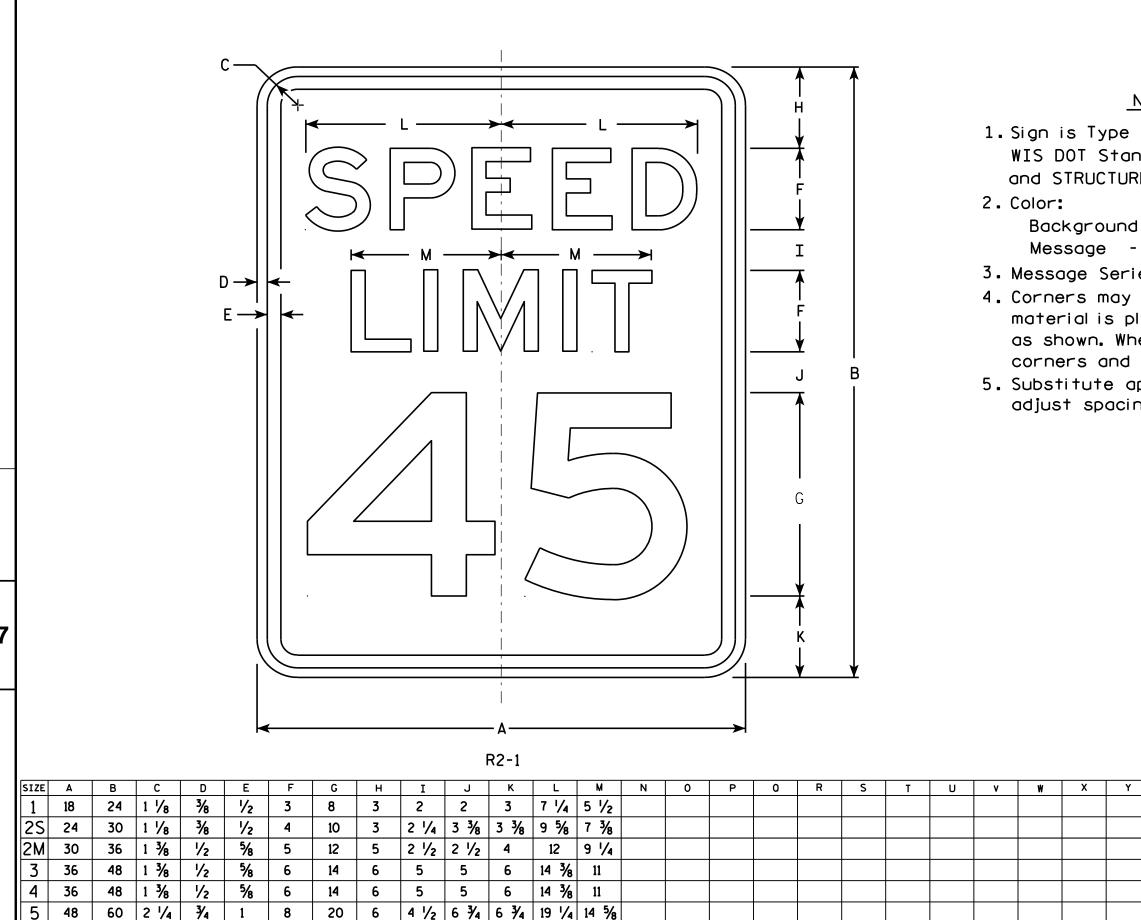
30

30

30

PROJECT NO:





COUNTY:

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther R Raus

For State Traffic Engineer DATE <u>5/26/1</u>0 PLATE NO. R2-1.13

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN

PROJECT NO:

HWY:

PLOT DATE: 28-MAY-2010 08:32

PLOT BY : ditjph

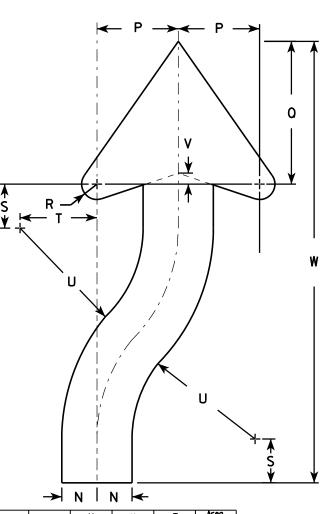
PLOT NAME :

PLOT SCALE: 4.717577:1.000000

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
- 2. Color:

Background - White Message - Black

- 3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
- 4. R4-8 is the same as R4-7 except Legend is reversed.



PLOT NAME :

ARROW DETAIL

																							\rightarrow	N I	N 		
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Areo sq. ft
1	18	24	1 1/8	3∕8	1/2	3 %	4 3/4	5 ½	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 %	3 1/4	6 3/4	1/2	20 ¾				3.0
2S	24	30	1 1/8	3∕8	1/2	4 1/2	6 1/4	7 3/8	1 %	3	8	4	12 1/2	2	30	4 %	8 1/8	1 /8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 1/8	3	8	4	12 1/2	2	30	4 %	8 1/8	7∕8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 1/8	4 1/2	12	6	18 ¾	3	45	6 %	12 1/4	1 1/4	3 3/4	6 %	13 1/2	1	40 ¾				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 1/8	4 1/2	12	6	18 ¾	3	45	6 %	12 1/4	1 1/4	3 3/4	6 %	13 ½	1	40 ¾				12.0
5	48	60	2 1/4	₹4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 %	5	8 3/4	18	1 1/4	50 1/4				20.0

COUNTY:

R4-7

STANDARD SIGN R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

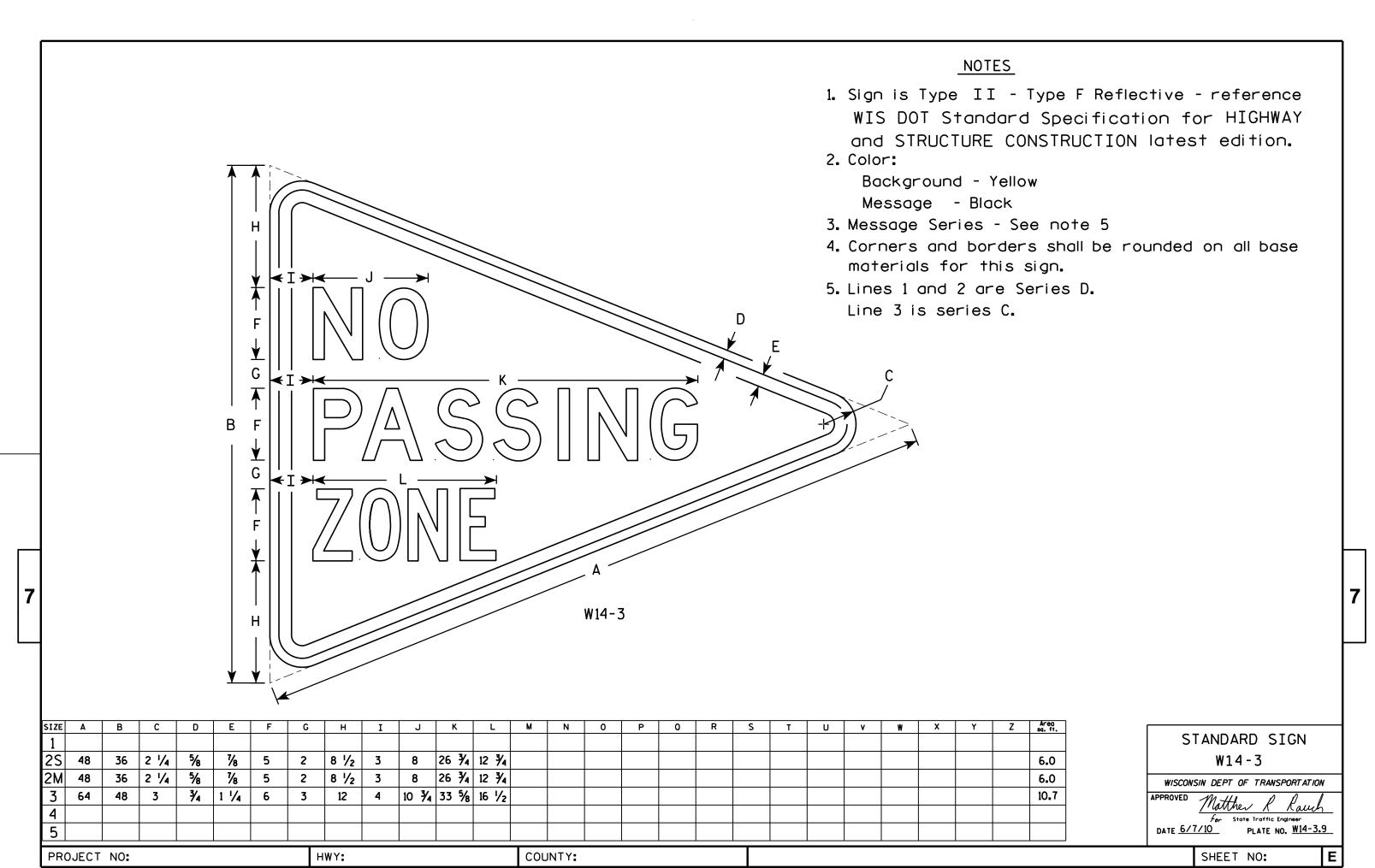
DATE 3/25/2011 PLATE NO. R4-7.8

SHEET NO:

PROJECT NO:

D→

HWY:



FILE NAME : C:\Users\PROJECTS\tr_stdplate\W143.DGN

PLOT DATE: 07-JUN-2010 13:11

PLOT BY: ditjph

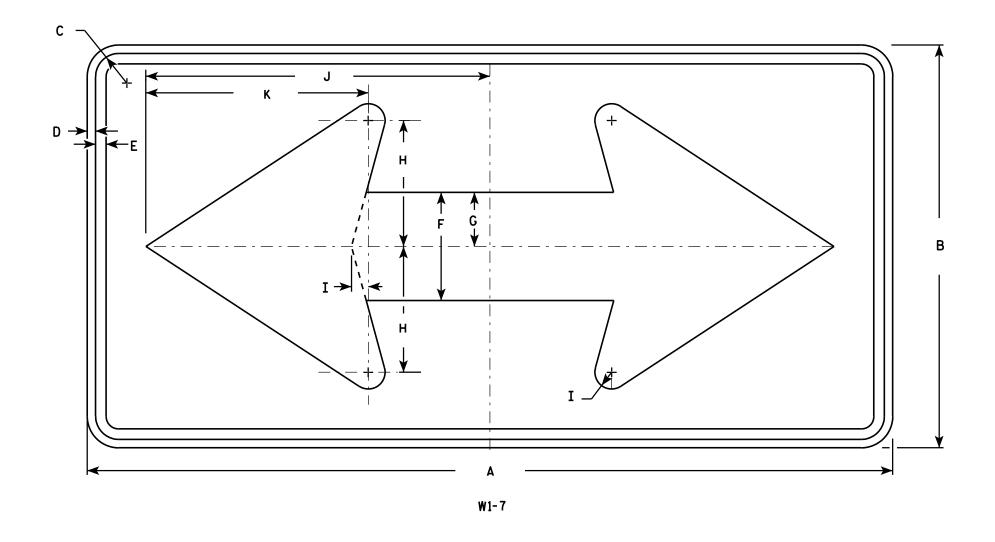
PLOT NAME :

PLOT SCALE: 5.710749:1.000000

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

Background - Yellow Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	-	٧	W	X	Y	Z	Areg sq. ft.
1	36	18	1 1/8	3⁄8	1/2	5	2 1/2	5 ¾	₹4	15 %	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 ¾	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

COUNTY:

STANDARD SIGN W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Raw

For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W17.DGN

PROJECT NO:

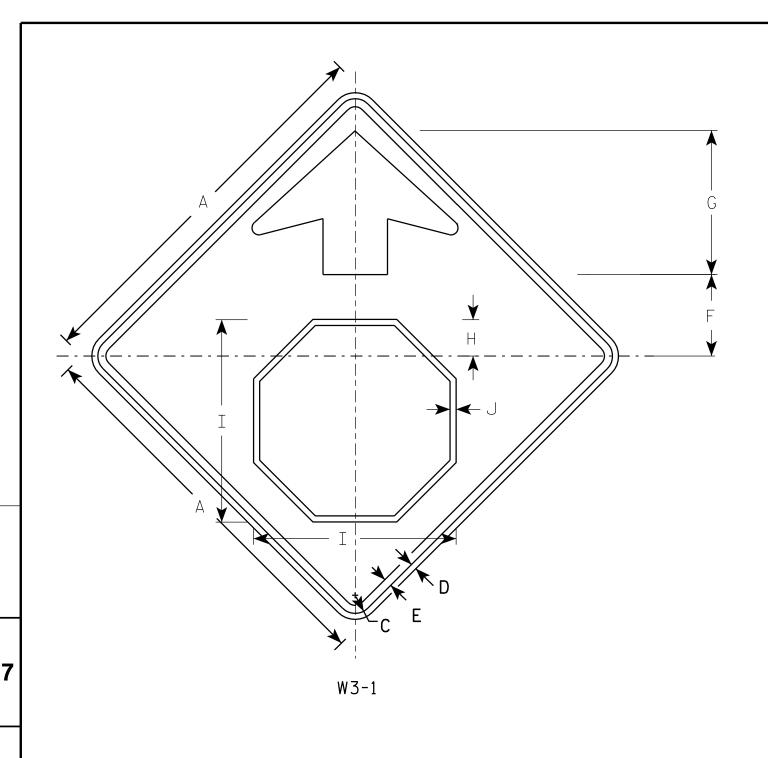
HWY:

PLOT DATE: 07-JUN-2010 12:35

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 5.720679:1.000000

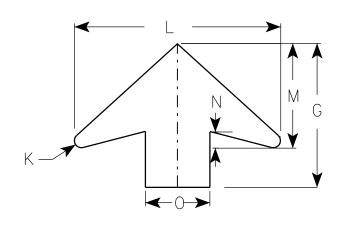


- 1. All Signs Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - YELLOW

Arrow & Border - BLACK

Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW	DFTAII
AININOW	DLIAL

SIZE	Α	В	С	D	E	F	G	Н	I	C	K	L	М	N	0	P	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 1/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 %	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 %	6												9.0
2M	36		1 %	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 %	5/8	3/4	7 1/2	13 ½	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 %	6												9.0
4	48		2 1/4	3/4	1	10	17 1/8	4 1/2	25 1/8	3/4	7 /8	25 %	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 1/8	4 1/2	25 1/8	3/4	½	25 %	13	2	8												16.0

STANDARD SIGN W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthe R Ra

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W31.DGN

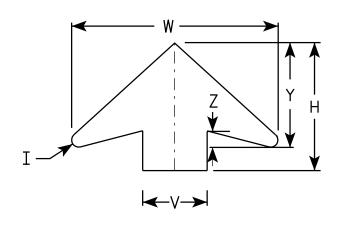
PROJECT NO:

- 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	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	36		1 %	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 %	9.0
2M	36		1 %	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 ¾	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
3	36		1 %	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 %	9.0
4	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	%	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9	12	8	25 %	3∕8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	1 / ₈	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9	12	8	25 %	3/8	13	2	16.0

STANDARD SIGN W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

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

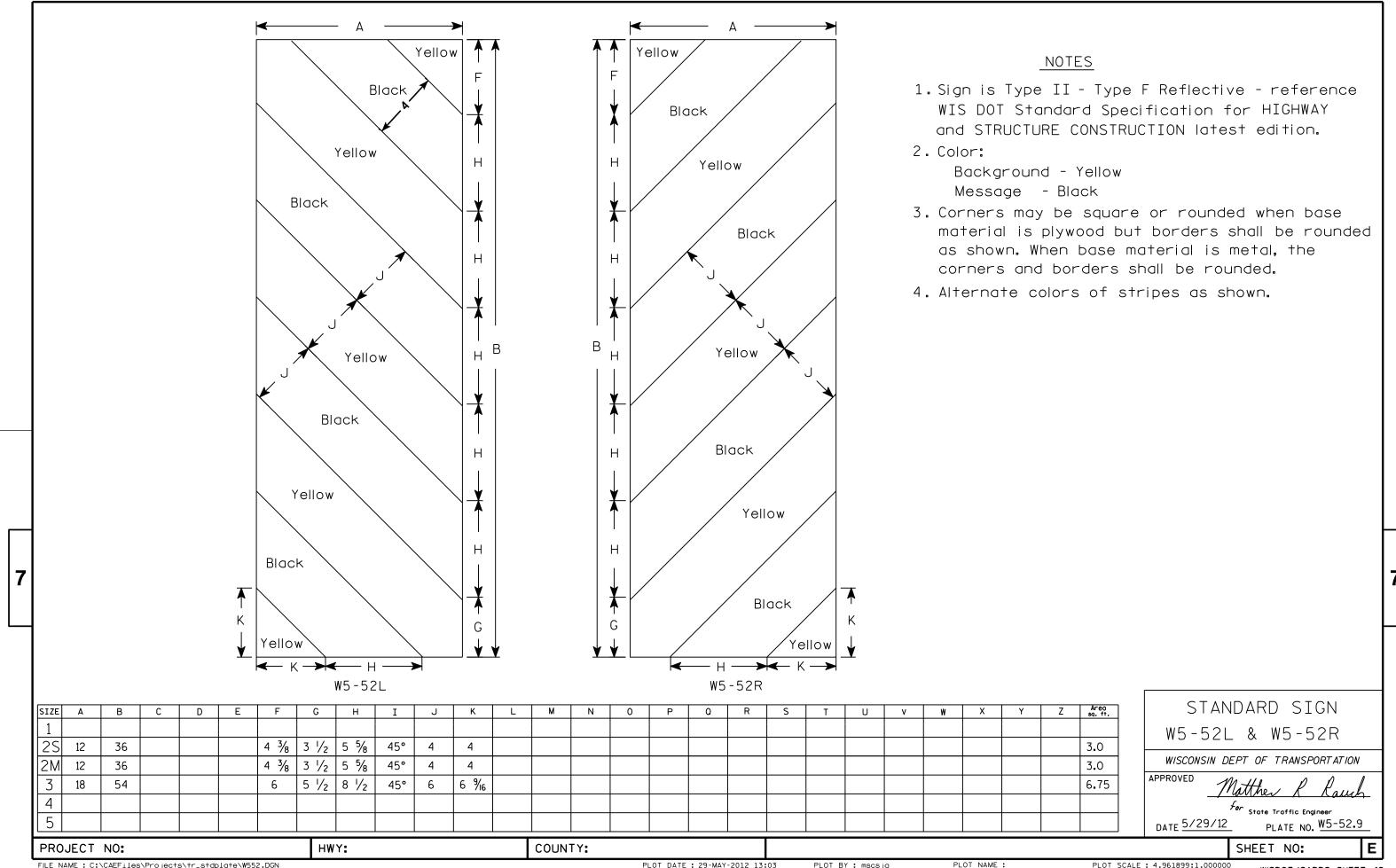
SHEET NO:

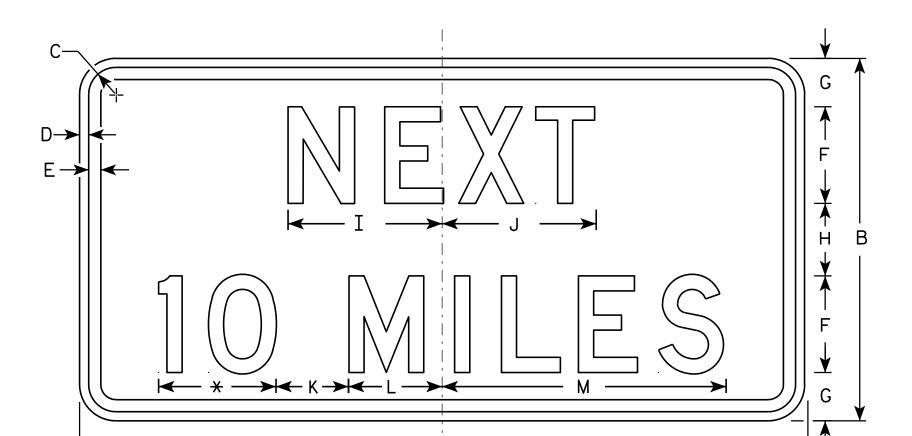
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W35.DGN

PROJECT NO:

PLOT DATE: 29-MAY-2012 10:52

PLOT BY: mscsja





W57 - 51

HWY:

NOTES

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

Background - Yellow Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	Α	В	C	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/8	3⁄8	3/8	3	1 3/4	2 1/2	5	5 1/8	3	2 3/4	9 %														2.0
25	30	15	1 1/8	3/8	1/2	4	2	3	6 3/8	6 3/8	3	3 %	11 3/4														3.13
2M	36	18	1 1/8	3/8	1/2	5	2 5/8	2 3/4	7 1/8	8	5	4 1/8	15 3/8														4.5
3	36	18	1 1/8	3⁄8	1/2	5	2 %	2 3/4	7 1/8	8	5	4 1/8	15 3/8														4.5
4	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 %	19														8.0
5	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 %	19														8.0

COUNTY:

STANDARD SIGN W57-51

SHEET NO:

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R R

For State Traffic Engineer

DATE 4/18/11

PLATE NO. W57-51.8

PROJECT NO:
FILE NAME : C:\Users\PROJECTS\tr_stdplate\\\$5751.DGN

PLOT DATE: 18-APR-2011 15:08

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 3.972696:1.000000

- 1. Sign is Type II Type H 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 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 and 2 are Series C. Line 3 is Series B.

A D E
CENTERLINE RUMBLE STRIPS
W8-70

W8-70

SIZE	Α	В	С	D	E	F	G	Η	I	J	K	L	М	Z	0	Р	0	R	s	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	5	2 1/2	1/4	17	16 3/8	10 1/8	10 ¾	7 1/4	7 3/8													9.0
2M	36		1 %	5/8	3/4	5	2 1/2	1/4	17	16 3/8	10 %	10 ¾	7 1/4	7													9.0
3	36		1 %	5/8	3/4	5	2 1/2	1/4	17	16 3/8	10 %	10 ¾	7 1/4	7													9.0
4																											
5																											

STANDARD SIGN W8-70

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R R

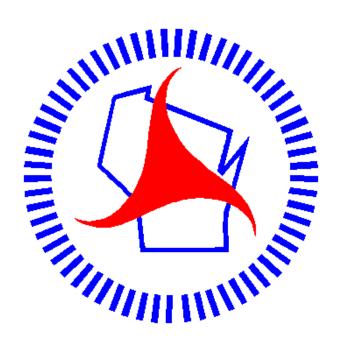
For State Traffic Engineer

DATE 3/23/11 PLATE NO.W8-70.2

SHEET NO:

PROJECT NO:

PLOT BY: mscj9h



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov