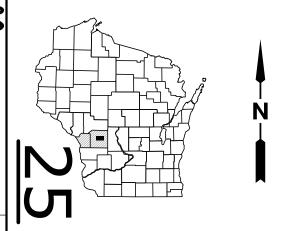
#### **JUNE 2017**

#### ORDER OF SHEETS

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

TOTAL SHEETS = 52



#### DESIGN DESIGNATION

A.A.D.T.	2017	=	1800
A.A.D.T.	2037	=	2200
D.H.V.		=	10.3
D.D.		=	60/40
T.		=	11%
DESIGN SI	PEED	=	55
ESALS		=	1,000,000

#### CONVENTIONAL SYMBOLS

PLAN

CORPORATE LIMITS	<u> </u>
PROPERTY LINE	
LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	-CAUTION-
MARSH AREA	(# # # )
WOODED OR SHRUB AREA	£

PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH

CULVERT (Profile View)

POWER POLE

WATER

GRADE ELEVATION UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER STORM SEWER TELEPHONE

UTILITY PEDESTAL TELEPHONE POLE

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# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

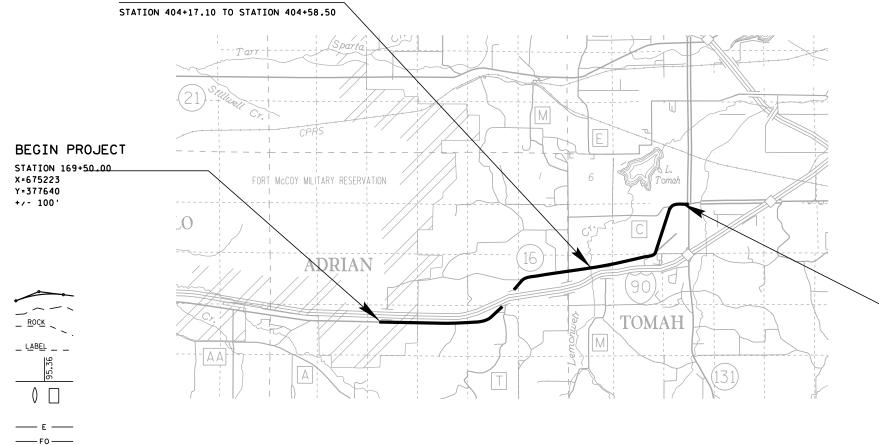
PLAN OF PROPOSED IMPROVEMENT

# SPARTA - TOMAH

HAZEL WEST RD TO HOLLISTER AVE **STH 16** MONROE COUNTY

> STATE PROJECT NUMBER 5735-04-60

NET EXCEPTION B-41-0190



END PROJECT STATION 529+00.00

STATE	OF	WISCONSIN
DEPARTMENT	OF	TRANSPORTATION
PREPARED BY		
Surveyor		WISCONSIN DOT
Designer		TONY VANDER WIELEN
Project Manager		DAN KLEINERTZ
Regional Examiner		DAN KLEINERTZ
Regional Supervisor		JOSEPH GREGAS III

FEDERAL PROJECT

CONTRACT

PROJECT

STATE PROJECT

5735-04-60

C.O. Examiner PPROVED FOR THE DEPARTMENT

Regional Supervisor \_\_\_

LAYOUT

TOTAL NET LENGTH OF CENTERLINE = 6.802 MI.

HORIZONTAL POSITIONS SHOWN ARE WISCONSIN COUNTY COORDINATES, MONROE COUNTY,

NAD83 YEAR, IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS.

AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

#### **UTILITY CONTACTS**

Century Link 311 S. Court St PO Box 256 La Crosse, WI 54602 Attn: Bret Clark Phone: 608-269-0819 bret.clark@centurylink.com

WI Independent Network 800 Wisconsin Ave Suite 219 Eau Claire, WI 54703 Attn: John Louis Phone: 715-838-4012 ilouis@wins.net

ATC Management, Inc. 801 O'keefe Rd PO Box 6113 DePere, Wi 54115-6113 Attn: Mike Olsen Phone: 920-998-6582 molsen@atcllc.com

We Energies

333 West Everett St Room A299 Milwaukee, WI 53203 Attn: LaTroy Brumfield Phone: 414-221-5617

LaTroy.Brumfield@we-energies.com

Dairyland Power 3200 East Ave S P.O. Box 817 La Crosse, WI 54602 Attn: Jane Eggen Phone:608-787-1248 ime@dairynet.com

Tomah Water Utility- Sewer 819 Superior Ave Tomah, WI 54660-2046 Attn: Kirk Arity

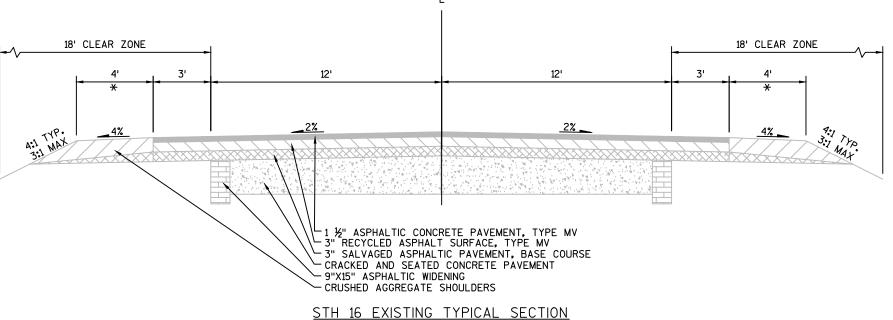
Phone: 608-374-7430

Oakdale Electric 489 N Oakwood St PO Box 128 Oakdale, WI 54649 Attn: Scott Brookman Phone:608-372-4131 sbrookma@oakdalerec.com

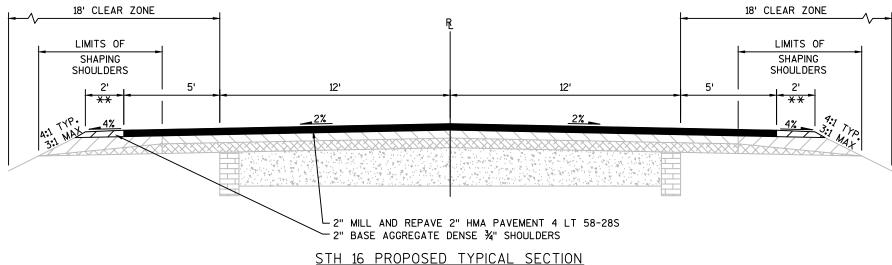
Alliant Energy Suite 1000 4902 N Biltmore Lane Madison, WI 53718 Phone: 608-458-4871

jasonhogan@alliantenergy.com





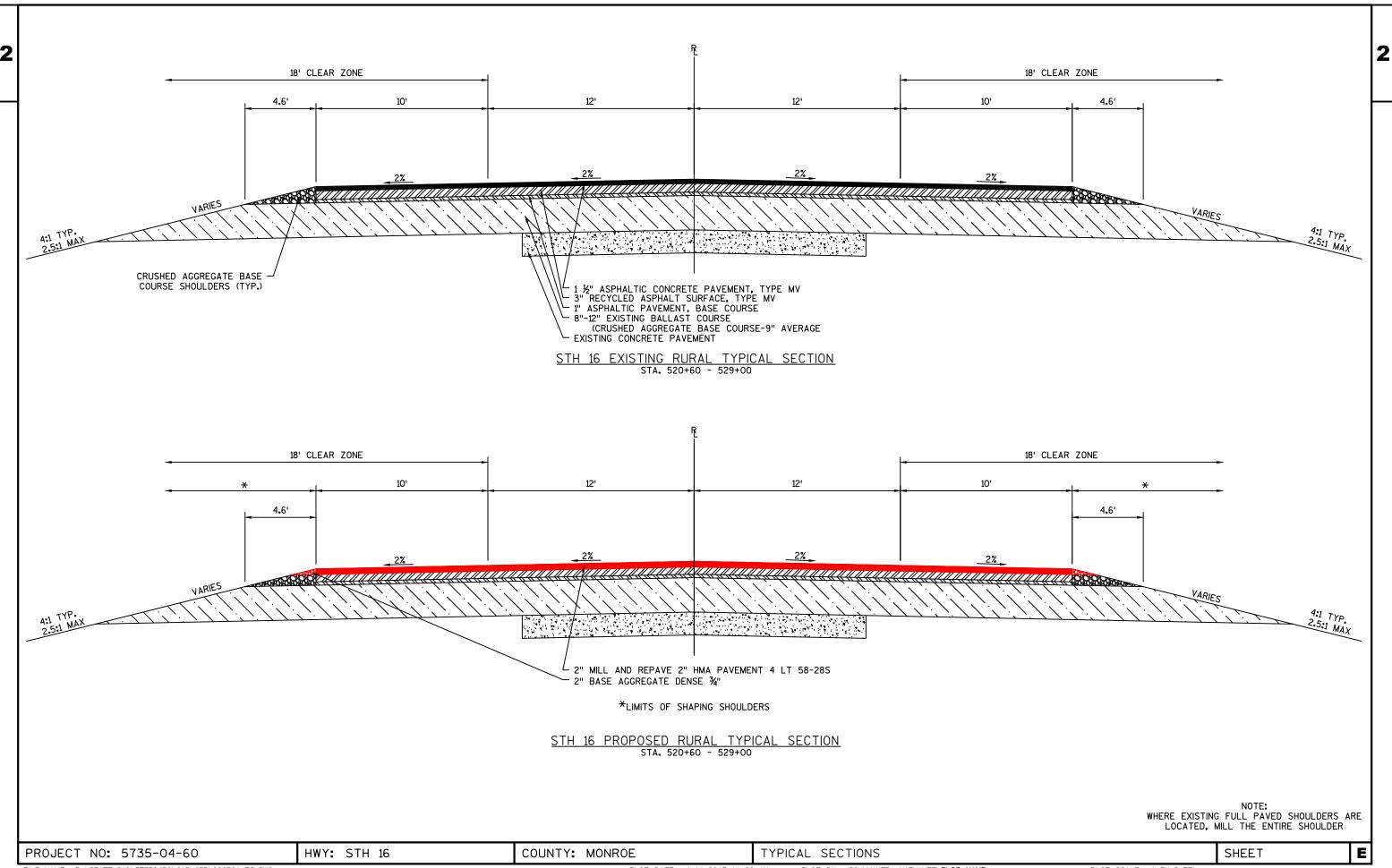
STA. 169+50 - 404+17.1 LT & RT \*STA. 247+82 - 251+73 RT \*STA. 321+91 - 324+91 RT STA. 404+58.5 - 520+60 LT & RT \*STA, 269+84 - 272+56 RT \*STA. 321+71 - 325+04 LT \*STA. 199+31 - 218+27 RT \*STA. 270+26 - 272+53 LT \*STA. 403+22 - 405+58 RT \*STA. 233+39 - 240+91 RT \*STA. 301+73 - 307+48 RT \*STA. 403+03 - 405+75 LT \*STA. 237+75 - 239+44 LT \*STA. 301+77 - 308+78 LT \*FULL PAVED SHOULDER LOCATIONS

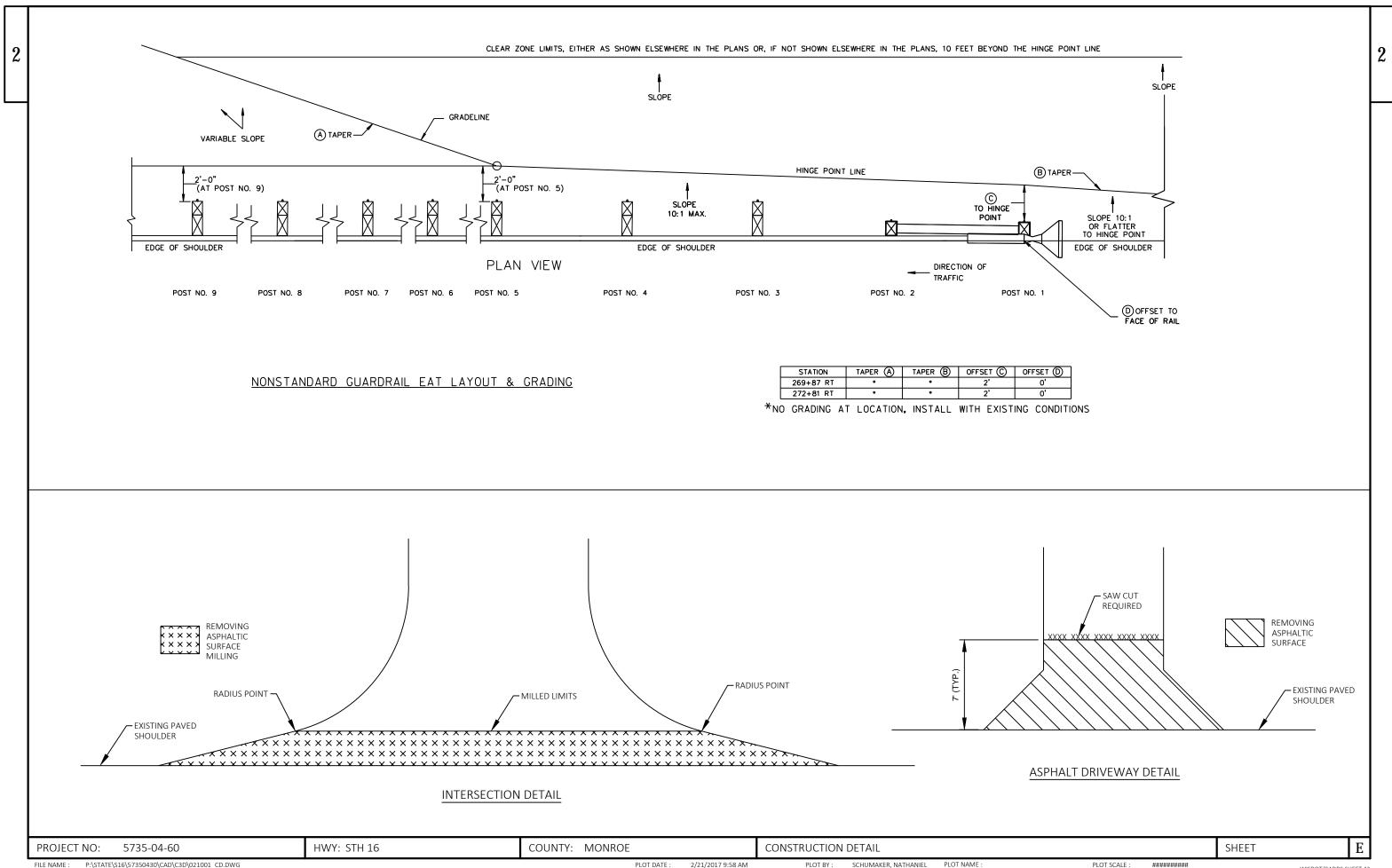


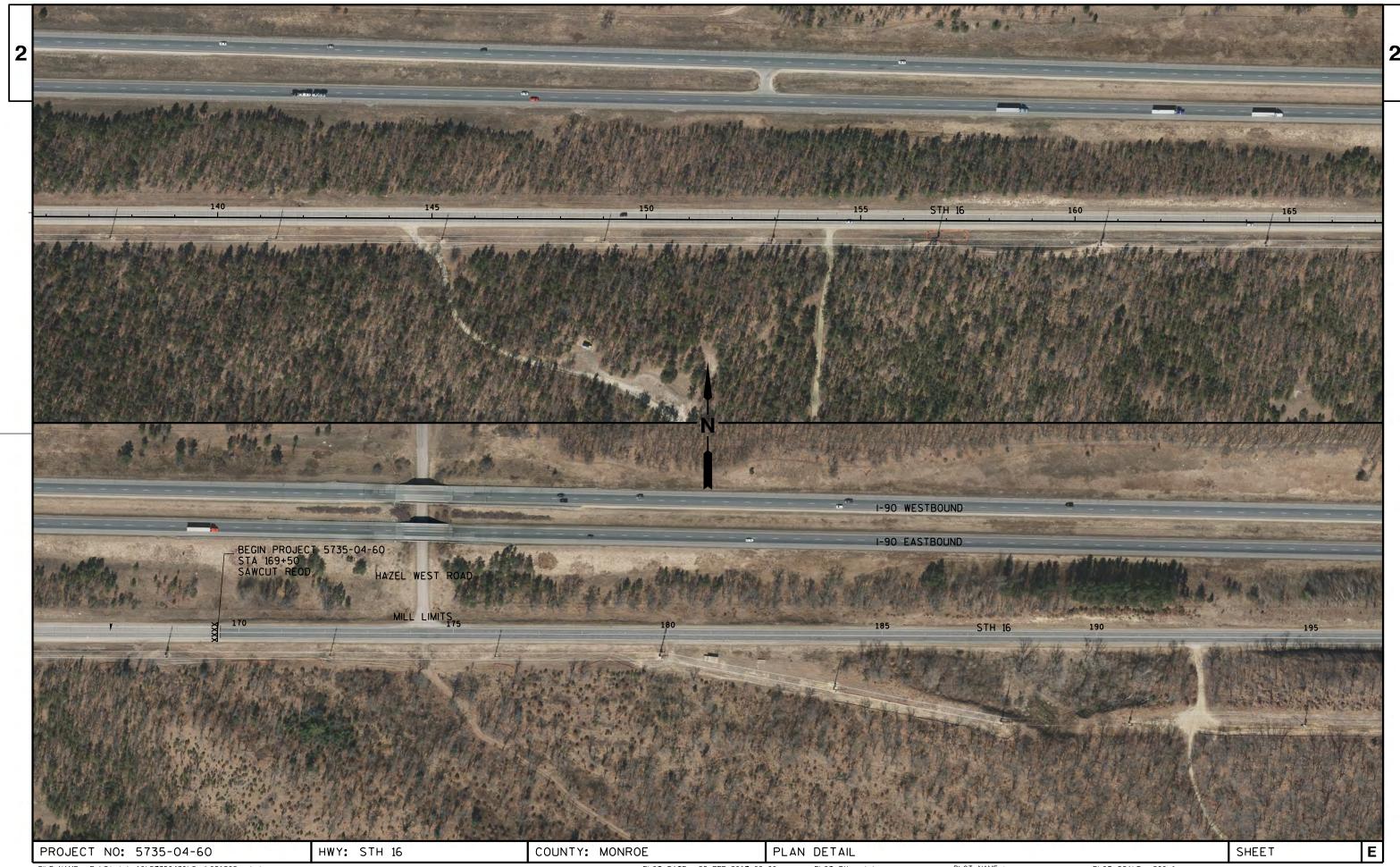
\*\*STA. 247+82 - 251+73 RT \*\*STA. 321+91 - 324+91 RT STA. 169+50 - 404+17.1 LT & RT \*\*STA. 321+71 - 325+04 LT \*\*STA. 269+84 - 272+81 RT STA. 404+58.5 - 520+60 LT & RT \*\*STA. 403+05 - 405+74 RT \*\*STA. 198+96 - 218+27 RT \*\*STA. 270+26 - 272+82 LT \*\*STA. 403+03 - 405+75 LT \*\*STA. 233+39 - 240+91 RT \*\*STA. 301+73 - 309+83 RT \*\*STA. 237+75 - 239+44 LT \*\*STA. 301+77 - 309+33 LT \*\*FULL PAVED SHOULDER LOCATIONS

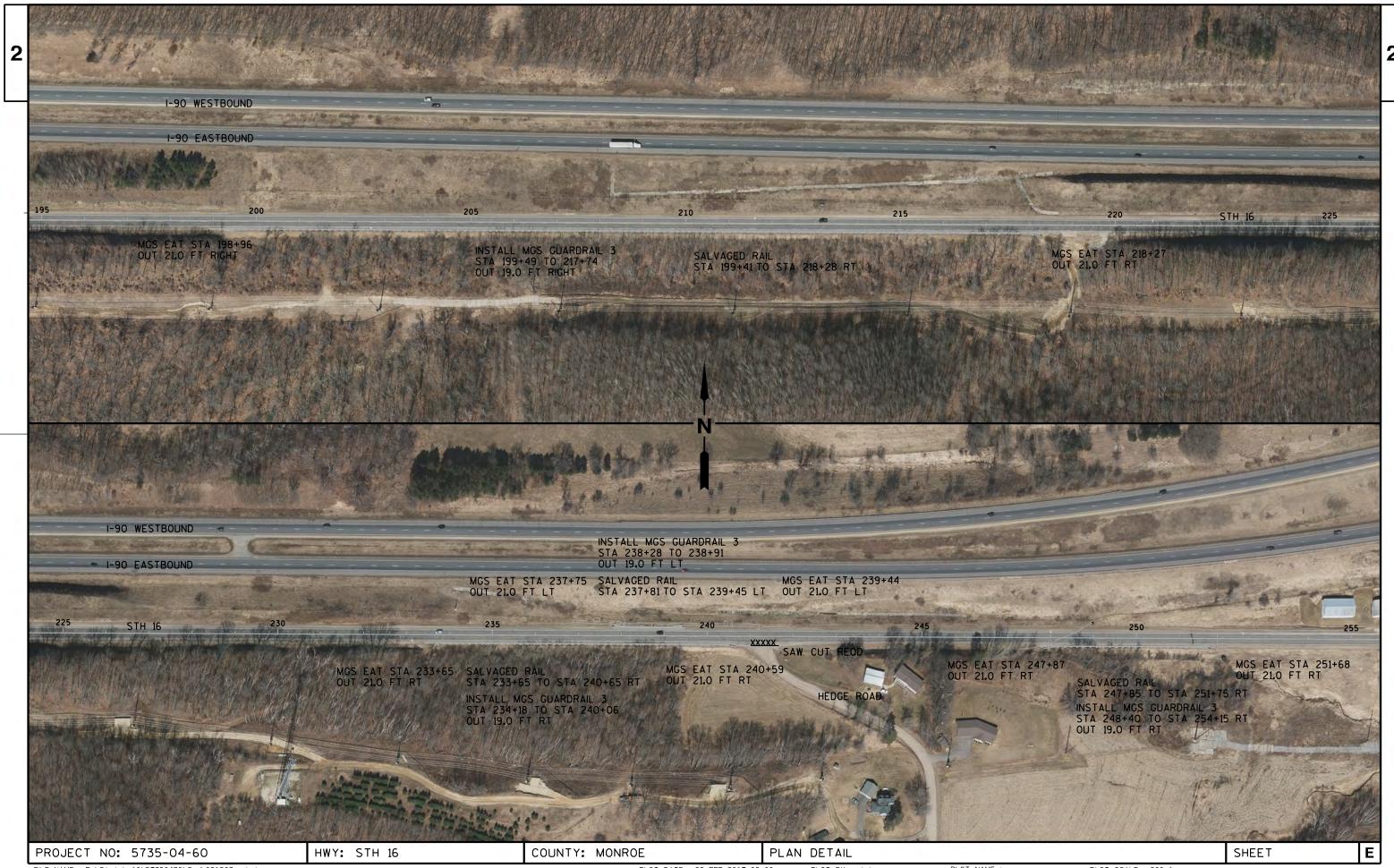
WHERE EXISTING FULL PAVED SHOULDERS ARE LOCATED, MILL THE ENTIRE SHOULDER

PROJECT NO: 5735-04-60 HWY: STH 16 SHEET E COUNTY: MONROE TYPICAL SECTIONS











FILE NAME: P:\State\s16\57350430\Cad\021204\_pd.dgn

PLOT DATE: 22-FEB-2017 08:06

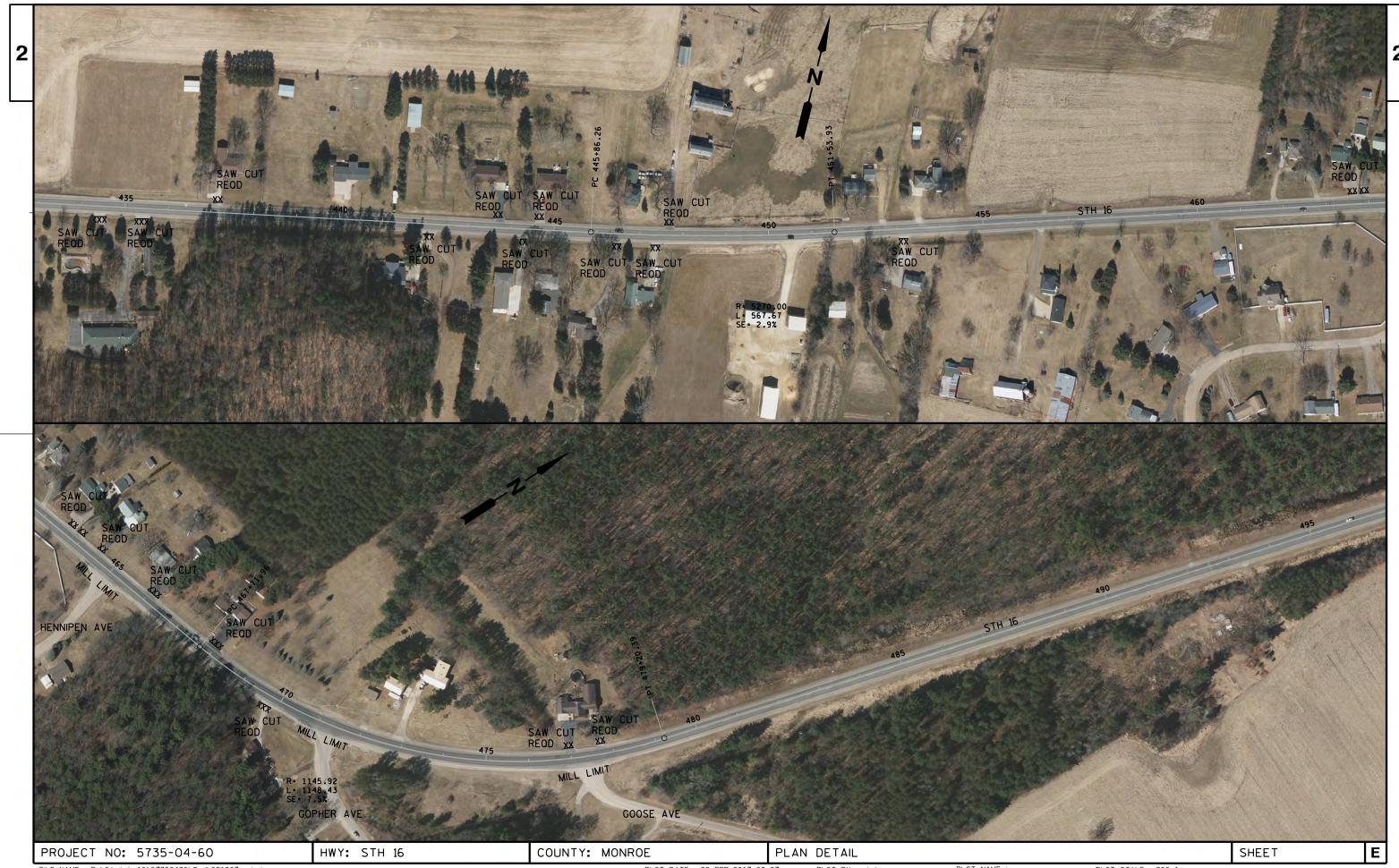
PLOT BY: dotszz

PLOT NAME:
PLOT SCALE: 200:1

WISDOT/CADDS SHEET 42











FILE NAME: P:\State\s16\57350430\Cad\021208\_pd.dgn

PLOT DATE: 22-FEB-2017 08:07

PLOT BY: dotszz

PLOT NAME: PLOT SCALE: 200:1

WISDOT/CADDS SHEET 42

5735-04-60

Line	Item	Item Description	Unit	Total	Qty
0010	204.0110	Removing Asphaltic Surface	SY	1,919.000	1,919.000
0020	204.0120	Removing Asphaltic Surface Milling	SY	125,371.000	125,371.000
0030	213.0100	Finishing Roadway (project) 01. 5735-04-60	EACH	1.000	1.000
0040	305.0110	Base Aggregate Dense 3/4-Inch	TON	8,681.000	8,681.000
0050	305.0500	Shaping Shoulders	STA	720.000	720.000
0060	440.4410	Incentive IRI Ride	DOL	27,240.000	27,240.000
0070	450.4000	HMA Cold Weather Paving	TON	4,000.000	4,000.000
0800	455.0605	Tack Coat	GAL	8,772.000	8,772.000
0090	460.2000	Incentive Density HMA Pavement	DOL	10,140.000	10,140.000
0100	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	35,909.000	35,909.000
0110	460.5224	HMA Pavement 4 LT 58-28 S	TON	16,126.000	16,126.000
0120	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	100.000	100.000
0130	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	60,105.000	60,105.000
0140	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	29,565.000	29,565.000
0150	614.0200	Steel Thrie Beam Structure Approach	LF	41.200	41.200
0160	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	2.000	2.000
0170	614.0920	Salvaged Rail	LF	4,966.000	4,966.000
0180	614.2300	MGS Guardrail 3	LF	3,525.000	3,525.000
0190	614.2500	MGS Thrie Beam Transition	LF	236.400	236.400
0200	614.2610	MGS Guardrail Terminal EAT	EACH	26.000	26.000
0210	618.0100	Maintenance And Repair of Haul Roads (project) 01.	EACH	1.000	1.000
		5735-04-60			
0220	619.1000	Mobilization	EACH	1.000	1.000
0230	624.0100	Water	MGAL	17.000	17.000
0240	642.5201	Field Office Type C	EACH	1.000	1.000
0250	643.0100	Traffic Control (project) 01. 5735-04-60	EACH	1.000	1.000
0260	643.0300	Traffic Control Drums	DAY	9,000.000	9,000.000
0270	643.0900	Traffic Control Signs	DAY	1,125.000	1,125.000
0280	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0290	646.0106	Pavement Marking Epoxy 4-Inch	LF	113,700.000	113,700.000
0300	646.0126	Pavement Marking Epoxy 8-Inch	LF	368.000	368.000
0310	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	73,428.000	73,428.000
0320	650.8000	Construction Staking Resurfacing Reference	LF	35,950.000	35,950.000
0330	690.0150	Sawing Asphalt	LF	751.000	751.000
0340	SPV.0180	Special 01. Removing Distressed Pavement Milling	SY	2,400.000	2,400.000
				•	

		204. 0110					204. 0110		
STATI ON	LOCATI ON	SY	REMARKS	STATI ON		LOCATI ON	SY	REMARKS	
192+30	RT	29	FE	444+27 444+68		RT LT	20 24	PE PE	
218+94	RT	43	FE	446+45		RT	18	PE	
219+82	RT	38	FE	447+35		RT	19	PE	
255+60	LT	19	FE	447+71		LT	20	PE	
256+32	LT	20	PE	447171		_'	20		
250152		20	1 2	452+00		RT	22	PE	
273+40	RT	26	FE	452+68		LT	19	PE	
278+25	LT	34	PE	453+14		RT	23	PE	
278+68	LT	19	FE	453+55		LT	22	PE	
281+08	RT	15	FE	456+36		RT	20	PE	
291+40	LT	18	FE	100100			20		
271110	2.	10		456+43		LT	15	FE	
300+33	LT	31	CE	461+78		LT	21	PE	
321+05	LT	29	FE	462+81		LT	16	PE	
325+60	RT	28	FE	463+64		LT	22	PE	
333+54	RT	20	FE	463+90		LT	23	PE	
340+43	RT	17	FE	100170			20		
010110	KI	17		464+53		LT	20	PE	
340+77	LT	40	PE	466+08		LT	36	PE	
348+57	RT	16	PE	467+95		LT	39	PE	
350+14	RT	18	FE	469+67		RT	34	PE	
351+71	LT	38	PE	472+00		LT	28	fe	
353+44	RT	22	FE	172100			20	10	
000111				472+86		LT	35	PE	
354+22	RT	21	FE	476+00		LT	24	PE	
358+53	RT	44	PE	476+69		LT	19	PE	
366+87	RT	22	PE	492+12		LT	17	FE	
370+83	RT	16	FE	493+30		RT	14	FE	
372+47	LT	62	PE	170100		1(1	1.1	1 2	
0,2,1,		32		497+38		LT	20	PE	
374+47	LT	37	FE	498+70		RT	29	PE	
376+19	RT	19	PE	500+05		LT	24	PE	
380+75	RT	31	FE	500+85		RT .	21	PE	
388+32	RT	34	PE	507+22		RT	50	CE	
388+32	LT	38	FE	307.122				02	
333132			. =		Т	OTAL 0010	1919		
411+25	LT	27	PE		•	OTAL OUTO	1717		
412+60	RT	23	FE						
412+65	LT	31	FE			RASE	AGGREGATE DENSE 3	/4-I NCH	
420+09	LT	39	PE			DASE	MOUNTONIE DENSE 3/	, i i iiiOII	
425+91	LT	22	PE						
								305. 0110	
427+42	RT	14	CE	STATI ON	T0	STATI ON	LOCATI ON	TON	REMARKS
428+07	LT	21	PE		10	O I A I I O IV	LOOMITON	1 014	KLIMAKKO
431+68	RT	26	PE	169+50	_	404+17	Lt & RT	4693	Mai nI i ne
434+40	RT	26	CE	404+59	-	520+60	Lt & RT	2320	Mainline Mainline
434+70	LT	20	FE	520+60	_	529+00	Lt & RT	168	Mainline
-		-		320+00		327100	Lt a Ki	500	PE's and FE's
435+44	RT	34	CE					500	EAT locations
437+20	LT	13	PE					500	undi strubute
440+07	LT	17	PE					500	unui Sti ubute
442+14	RT	30	PE				TOTAL 0010	0401	
443+74	LT	18	PE				TOTAL 0010	8681	
= / .	_,		· <del>-</del>						
		CONTINUED IN	NEXT COLUMN						
35-04-60		HWY:STH 16	COUNTY:N	AONIDOE	TI ANDOLL	JS QUANTITIES	•		SHEE

REMOVING ASPHALTIC SURFACE

REMOVING ASPHALTIC SURFACE

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### REMOVING ASPHALTIC SURFACE MILLING

				204. 0120	
STATI ON	TO	STATI ON	LOCATI ON	SY	REMARKS
169+50	-	404+17	Mainline	78224	30' wi de
404+59	-	520+60	Mainline	38672	30' wi de
520+60	-	529+00	Mainline	2800	44' wi de
199+31	-	218+27	RT	843	Full width shoulder
233+39	-	240+91	RT	334	Full width shoulder
237+75	_	239+44	LT	75	Full width shoulder
247+82	_	251+73	RT	174	Full width shoulder
269+84	-	272+56	RT	121	Full width shoulder
270+26	-	272+53	LT	101	Full width shoulder
301+73	-	309+48	RT	344	Full width shoulder
301+73	_	308+78	LT	313	Full width shoulder
321+91	_	324+91	RT	133	Full width shoulder
321+71	_	325+04	LT	148	Full width shoulder
403+22	_	405+58	RT	105	Full width shoulder
403+03	-	405+75	LT	121	Full width shoulder
Hazel West			LT	141	Intersection and tapers
Hedge Rd			RT	86	Intersection and tapers
leirloom Ave			RT	430	Intersection and tapers
eilmsman Ave			RT	128	Intersection and tapers
CTH T			RT	223	Intersection and tapers
awthorne Rd			LT	42	Intersection and tapers
Hazel East			LT	133	Intersection and tapers
eadquaters Ro	b		LT	77	Intersection and tapers
Golden Rd			LT	133	Intersection and tapers
CTH M			LT	281	Intersection and tapers
CTH M			RT	161	Intersection and tapers
Henni pi n Rd			RT	114	Intersection and tapers
Gopher Ave			RT	278	Intersection and tapers
Goose Ave			RT	191	Intersection and tapers
CTH CM			LT	445	Intersection and tapers
			TOTAL 0010	125371	·

### SALVAGED RAIL

STATI ON	TO	STATI ON	LOCATI ON	614. 0920 LF
199+41	-	218+28	RT	1886
233+65	-	240+65	RT	700
237+81	-	239+45	LT	164
247+85	-	251+75	RT	390
269+84	-	272+46	RT	263
270+26	-	272+53	LT	227
289+37	-	291+86	RT	249
288+76	-	290+78	LT	202
303+34	_	304+17	RT	83
302+11	-	302+82	LT	71
308+78	-	309+48	RT	70
308+28	-	309+00	LT	72
322+36	_	323+64	RT	128
321+89	_	323+66	LT	177
403+40	_	404+10	RT	71
404+65	_	405+36	RT	71
403+40	-	404+10	LT	71
404+65	_	405+37	LT	71
			TOTAL 0010	4966

# REHEATING HMA PAVEMENT LONGITUDINAL JOINTS

STATI ON	TO	STATI ON	LOCATI ON	460. 4110. S LF
169+50 404+59	- -	404+17 529+00	C/L C/L	23467 12442
			TOTAL 0010	35909

## SHAPING SHOULDERS

 STATI ON	T0	STATI ON	LOCATI ON	305. 0500 STA
 169+50	-	529+00	LT & RT	720
			TOTAL 0010	720

### <u>WATER</u>

					624. 0100	
_	STATI ON	T0	STATI ON	LOCATI ON	MGAL	REMARKS
	169+50	-	529+00	LT & RT	17	B. A. D. COMPACTI ON
				T0TAL 0010	17	

PROJECT NO:5735-04-60 HWY:STH 16 COUNTY:MONROE MISCELLANEOUS QUANTITIES SHEET: **E** 

FILE NAME : N:\PDS\...\030200\_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

TACK COAT HMA PAVEMENT 4 LT 58-28 S

				455. 0605						460. 5224	
STATI ON	TO_	STATI ON	LOCATI ON	GAL	REMARKS	<u>STATI ON</u>	T0	STATI ON	LOCATI ON	TON	REMARKS
169+50	_	404+17	Mai nli ne	5476	30' wi de	169+50	_	404+17	Mai nl i ne	9929	30' wi de
404+59	_	520+60	Mai nl i ne	2707	30' wi de	404+59	_	520+60	Mai nl i ne	4909	30' wi de
520+60	_	529+00	Mai ni i ne	196	44' wi de	520+60	_	529+00	Mai nl i ne	460	44' wi de
199+31	_	218+27	RT	59	Full width shoulder	199+31	_	218+27	RT	71	Full width shoulder
233+39	_	240+91	RT	23	Full width shoulder	233+39	-	240+91	RT	71	Full width shoulder
237+75	-	239+44	LT	5	Full width shoulder	237+75	-	239+44	LT	6	Full width shoulder
247+82	-	251+73	RT	12	Full width shoulder	247+82	-	251+73	RT	15	Full width shoulder
269+84	-	272+56	RT	8	Full width shoulder	269+84	-	272+56	RT	10	Full width shoulder
270+26	-	272+53	LT	7	Full width shoulder	270+26	-	272+53	LT	8	Full width shoulder
301+73	_	309+48	RT	24	Full width shoulder	301+73	_	309+48	RT	29	Full width shoulder
301+73	_	308+78	LT	22	Full width shoulder	301+73	_	308+78	LT	26	Full width shoulder
321+91	_	324+91	RT	9	Full width shoulder	321+91	_	324+91	RT	11	Full width shoulder
321+71	_	325+04	LT	10	Full width shoulder	321+71	_	325+04	LT	12	Full width shoulder
403+22	_	405+58	RT	7	Full width shoulder	403+22	_	405+58	RT	9	Full width shoulder
403+03	_	405+75	LT	8	Full width shoulder	403+03	_	405+75	LT	10	Full width shoulder
110701 W+				10	Interposition and target	Howel West			1.7	47	Interposation t-
Hazel West			LT	10	Intersection and tapers	Hazel West			LT	16	Intersection and taper
Hedge Rd			RT	6	Intersection and tapers	Hedge Rd			RT	10	Intersection and taper
Heirloom Ave			RT	30	Intersection and tapers	Heirloom Ave			RT	48	Intersection and taper
leilmsman Ave			RT	9	Intersection and tapers	Heilmsman Ave	<del>)</del>		RT	14	Intersection and taper
CTH T			RT	16	Intersection and tapers	CTH T			RT	25	Intersection and taper
Hawthorne Rd			LT	3	Intersection and tapers	Hawthorne Rd			LT	5	Intersection and taper
Hazel East			LT	9	Intersection and tapers	Hazel East			LT	15	Intersection and taper
eadquaters Rd			LT	5	Intersection and tapers	Headquaters R	d		LT	9	Intersection and taper
Golden Rd			LT	9	Intersection and tapers	Gol den Rd			LT	15	Intersection and taper
CTH M			LT	20	Intersection and tapers	CTH M			LT	31	Intersection and taper
CTH M			RT	11	Intersection and tapers	CTH M			RT	18	Intersection and taper
Henni pi n Rd			RT	8	Intersection and tapers	Henni pi n Rd			RT	13	Intersection and taper
Gopher Ave			RT	19	Intersection and tapers	Gopher Ave			RT	31	Intersection and taper
Goose Ave			RT	13	Intersection and tapers	Goose Ave			RT	21	Intersection and taper
CTH CM			LT	31	Intersection and tapers	CTH CM			LT	50	Intersection and taper
CTH CW			LI	31	Tifter section and tapers		′ Distr	essed Milled Are		300	Titter section and taper
			TOTAL 0010	8772							
									TOTAL 0010	16126	
			CONSTRUCTION ST	TAKING RESURFACI	NG REFERENCE	SPECIAL (01 R	EMOVI NO	G DISTRESSED PAV	EMENT MILLING)		
	STATI	ON TO	STATI ON	LOCATI ON	650. 8000 LF			LOCATI ON		SPV. 0180. 01 SY	REMARKS
	169+5	60 -	529+00	MAI NLI NE	35950					2400	Undi strubuted
				TOTAL 0010	35950			TOTAL 0010		2400	
CT NO:5735-04			HWY:STH 16		COUNTY:MONROE	MISCELLANE					SHEET:

FILE NAME : N:\PDS\...\030200\_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

HWY:STH 16

PROJECT NO:5735-04-60

### ASPHALT CENTER LINE RUMBLE STRIPS 2-LANE RURAL

		465. 0120							465. 0475
STATION TO S	TATI ON LOCATI ON	TON	REMARKS	. <u> </u>	STATI ON	T0	STATI ON	LOCATI ON	<u>LF</u>
278+25	LT	3	PE		169+50	_	172+27	C/L	277
300+33	LT	2	CE		176+27		260+17	C/L	8390
		3				-			
340+77	LT		PE		264+17	-	285+00	C/L	2083
351+71	LT	3	PE		289+00	-	299+21	C/L	1021
366+87	RT	2	PE		303+21	-	322+68	C/L C/L	1947
372+48	LT	6	PE		326+68	-	331+38	C/L	470
376+19	RT	2	PE		335+38	_	345+48	C/L	1010
420+09	LT	3	PE		349+48	_	365+60	C/L	1612
428+07	LT	2	PE		369+60	_	378+84	C/L	924
431+68	RT	2	PE		382+84	_	403+92	C/L	2108
								C/L	
434+40	RT	2	CE		404+84	_	417+28	C/L	1244
435+44	RT	3	CE		421+28	_	426+33	C/L	505
437+20	LT	1	PE		428+33	-	433+42	C/L	509
442+14	RT	2	PE		436+35	_	463+00	C/L	2665
143+74	LT	1	PE		467+00	-	469+26	C/L C/L	226
444 07	DT	2	DE		472.27		475.07		211
144+27	RT	2	PE		473+26	-	475+37	C/L	211
444+68	LT	2	PE		479+37	-	506+17	C/L	2680
446+45	RT	1	PE		508+17	_	515+08	C/L	691
447+35	RT	2	PE		519+08	-	529+00	C/L	992
147+71	LT	2	PE					TOTAL 0010	29565
453+14	RT	2	PE					TOTAL OUTO	29303
463+64	LT	2	PE						
463+90	LT	2	PE						
464+53	LT	2	PE				TRAFFIC CONTRO	I DDUMC	
			FE DE				TRAFFIC CONTRO	L DRUMS	
466+08	LT	3	PE						
467+95	LT	3	PE					643. 0300	
469+67	RT	3	PE	STATI ON	T0	STATI ON	LOCATI ON	l DAY	REMARKS
476+00	LT	2	PE	·					
476+69	LT	2	PE	169+50	_	529+00	Guard Rail Loc	cations 9000	25' spaci ng
197+38	LT	2	PE						3
498+70	RT	2	PE				TOTAL 001	9000	
500+05	LT	2	PE						
500+85	RT	2	PE						
507+22	RT	4	CE				TDAEELO CONTRO	I CICNC	
	кі	·	VE.				TRAFFIC CONTRO	L SIGNS	
STRUBUTED		21						643. 0900	
	TOTAL 0010	100		STATI ON	TO	STATI ON	LOCATI ON		REMARKS
	TOTAL SOTO	100			· <del>-</del>		233101		
								450	Advanced Warning
								675	Intersections
							TOTAL 001	0 1125	

MISCELLANEOUS QUANTITIES

FILE NAME : N:\PDS\...\030200\_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

COUNTY:MONROE

| 1

SHEET:

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STATI ON	T0	STATI ON	LOCATI ON	465. 0425 LF
169+50	-	217+49	RT	4799
220+43	-	240+07	RT	1964
243+02		259+17	RT	1615
264+17	-	285+68	RT	2151
288+09	-	299+00	RT	1091
309+70	-	324+32	RT	1462
325+15	-	348+17	RT	2302
348+66	-	358+26	RT	960
359+07	-	366+71	RT	764
366+98	-	367+93	RT	95
368+15	-	375+15	RT	700
27/ 55		207.00	DT	4425
376+55	-	387+90	RT	1135
388+70	-	403+92	RT	1522
404+84	-	416+86	RT	1202
420+97	-	426+24	RT	527
428+00	-	431+27	RT	327
431+94	_	434+04	RT	210
436+06	_	441+67	RT	561
442+49	_	443+85	RT	136
444+85		446+10	RT	125
447+73	-	449+25	RT	152
447+73	-	449+25	KI	152
450+30	-	452+76	RT	246
453+48	_	455+95	RT	247
456+67	_	460+00	RT	333
460+74	_	463+29	RT	255
466+47	-	469+33	RT	286
470.07		475 40	D.T.	001
473+37	-	475+43	RT	206
479+38	-	498+26	RT	1888
499+00	-	500+40	RT	140
501+40	-	506+00	RT	460
507+89	-	529+00	RT	2111
169+50	_	172+77	LT	327
176+00	_	255+94	LT	7994
256+68	-	277+82	LT	2114
278+64	_	301+86	LT	2322
309+22	-	323+10	LT	1388
307+22	-	323+1U	LI	1300
325+19	-	331+35	LT	556
335+55	-	340+38	LT	483
341+16	_	346+47	LT	531
348+41	-	351+33	LT	292
352+13	_	365+56	LT	1343
				. 5 . 5

				465. 0425
STATI ON	T0	STATI ON	LOCATI ON	LF
370+00	-	372+07	LT	207
372+88	-	379+00	LT	612
383+88	-	403+92	LT	2004
404+84	_	410+84	LT	600
411+59	_	419+68	LT	809
420+38	_	424+18	LT	380
424+83	-	425+54	LT	71
426+24	_	427+68	LT	144
428+43	-	436+80	LT	837
437+56	-	439+75	LT	219
440+47	-	443+34	LT	287
445+06	_	447+31	LT	225
448+03	_	452+29	LT	426
453+86	-	461+41	LT	755
464+96	-	465+81	LT	85
466+56	-	467+56	LT	100
468+43	-	472+46	LT	403
473+30	-	476+55	LT	325
478+00	_	497+00	LT	1900
497+78	_	499+63	LT	185
500+41	-	514+50	LT	1409
521+00	-	529+00	LT	800
			TOTAL 0010	60105

### TRAFFIC CONTROL SIGNS PCMS

LOCATION	643. 1050 DAY	REMARKS
BEGIN PROJECT END PROJECT	7 7	COORDINATE LOCATION WITH ENGINEER
TOTAL 0010	14	

CONTINUED IN NEXT COLUMN

PROJECT NO:5735-04-60 HWY:STH 16 COUNTY:MONROE MISCELLANEOUS QUANTITIES SHEET: **E** 

7
.5

614. 2300

1825.0

587.5

62.5

275.0

187. 5

150.0

137.5

100.0

12.5

12.5

12. 5 12. 5

50.0

75.0

12. 5

12. 5

3525

LF

#### MGS GUARDRAIL TERMINAL EAT

# MGS GUARDRAIL 3

	REMARKS	614. 2610 EACH	LOCATI ON	STATI ON	TO	STATI ON
STATI ON 7	KEMPAKKS	LACIT	LOOATTON	STATION	10	STATION
	POST 1	1	RT			198+96
199+49	POST 1	1	RT			218+27
234+18	POST 1	1	RT			233+65
238+28	POST 1	1	RT			240+59
248+40	POST 1	1	LT			237+75
270+41						
	POST 1	1	LT			239+44
270+79	POST 1	1	RT			247+87
289+90	POST 1	1	RT			251+68
289+26	POST 1	1	RT			269+87
303+65	POST 1	1	RT			272+81
302+30						
332.33	POST 1	1	LT			270+26
309+18	POST 1	1	LT			272+82
308+68	POST 1	1	RT			289+37
322+91	POST 1	1	RT			291+80
322+53	POST 1	1	LT			288+73
403+59						
	POST 1	1	LT			290+79
405+05	POST 1	1	RT			303+12
.00.00	POST 1	1	LT			301+77
	POST 1	1	RT			309+83
	POST 1	1	LT			309+33
	POST 1	1	RT			322+38
	POST 1	1	RT			323+94
	POST 1	1	LT			322+00
	POST 1	1	LT			323+81
	POST 1	1	RT			403+05
	POST 1	1	RT			405+20

# STEEL THRIE BEAM STRUCTURE APPROACH

LOCATI ON

RT

RT

LT

RT

RT

LT

RT

LT

RT

LT

RT

LT

RT

LT

RT

RT

TOTAL 0010

				614. 0200
STATI ON	T0	STATI ON	LOCATI ON	LF
403+90	_	404+10	LT	20. 6
404+65	_	404+86	LT	20. 6
			T0TAL 0010	41. 2

# MGS THRIE BEAM TRANSITION

				614. 2500
 STATI ON	T0	STATI ON	LOCATI ON	<u>LF</u>
303+78	-	304+17	RT	39. 4
302+43	-	302+82	LT	39. 4
308+78	-	309+18	RT	39. 4
308+28	-	308+68	LT	39. 4
403+71	-	404+10		39. 4
404+65	-	405+05	RT	39. 4
			TOTAL 0010	236. 4

#### STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATI ON

217+74

240+06

238+91

251+15

272+28

272+29

291+27

290+26

303+78

302+43

309+30

308+81

323+41

323+28

403+71

405+18

			614. 0370	
_	STATI ON	LOCATI ON	EACH	REMARKS
	403+40 405+36	LT LT	1 1	Post 1 Post 1
		TOTAL 0010	2	

PROJECT NO:5735-04-60 HWY:STH 16 COUNTY:MONROE MISCELLANEOUS QUANTITIES SHEET: **E** 

LOCATI ON

C/L

SUB TOTAL

2 APPLICATIONS

T0TAL 0010

STATI ON

169+50

183+50

193+00

194+00

206+00

207+00

243+50

253+00

302+50

317+00

362+00

363+50

375+00

406+50

490+00

507+00

TO

STATI ON

183+50

193+00

194+00

206+00

207+00

243+50

253+00

302+50

317+00

362+00

363+50

375+00

406+50

490+00

507+00

529+00

649. 0402 649. 0402 SOLI D YL DASH YL

LF

112

76

8

96

8

220

76

204

116

332

12 92

252

520

136

104

2364

X2

LF

950

1200

4550

7350

5850

1150

10200

3100

34350

X2

73428

STATI ON	то	STATI ON	LOCATI ON	646. 0106 SOLID YL LF	DASH YL LF	WHI TE LF
STATION	10	STATION	LOCATION	LI	LI	
169+50	_	183+50	C/L		350	
183+50	_	193+00	C/L	950	237. 5	
193+00	_	194+00	C/L		25	
194+00	_	206+00	C/L	1200	300	
206+00	-	207+00	C/L		25	
207+00	_	243+50	C/L	4550	687. 5	
243+50	-	253+00	C/L		237.5	
253+00	-	302+50	C/L	7350	637. 5	
302+50	-	317+00	C/L		362. 5	
317+00	-	362+00	C/L	5850	1037. 5	
362+00	_	363+50	C/L		37. 5	
363+50	-	375+00	C/L	1150	287. 5	
375+00	_	406+50	C/L		787. 5	
406+50	-	490+00	C/L	10200	1625. 0	
490+00	-	507+00	C/L		425. 0	
507+00	_	529+00	C/L	3100	325. 0	
169+50		529+00	EDGE LINE			71900
515+51		517+64	LANE LINE			62. 5
			SUBTOTAL	34350	7388	71963
			TOTAL 0010	113700		

## PAVEMENT MARKING EPOXY 8-INCH

				646. 0126	
STATI ON	T0	STATI ON	LOCATI ON	LF	REMARKS
261+33	-	262+42	RT	109	Heiloom
517+45	-	519+74	LT	229	CTH CM
519+74	-	520+92	LT	30	3' SKIPS
			TOTAL 0010	368	

PROJECT NO:5735-04-60 HWY:STH 16 COUNTY:MONROE MISCELLANEOUS QUANTITIES SHEET: **E** 

### SAWING ASPHALT

STATION   LOCATION   LF   REMARKS			690. 0150	
169+50         CL         30         BEGIN PROJECT           278+25         LT         25         PE           300+33         LT         22         CE           340+77         LT         29         PE           351+71         LT         29         PE           351+71         LT         31         PE           366+87         RT         15         PE           376+19         RT         18         PE           420+09         LT         31         PE           428+07         LT         19         PE           431+68         RT         19         PE           431+68         RT         19         PE           431+68         RT         22         CE           431+68         RT         19         PE           431+68         RT         29         CE           431+68         RT         19	STATION	LOCATION		RFMARKS
278+25	017111011	2007111011		
278+25	169+50	CL	30	BEGIN PROJECT
300+33				
340+77 LT 29 PE 351+71 LT 31 PE  366+87 RT 15 PE 376+19 RT 18 PE 420+09 LT 31 PE 428+07 LT 19 PE 431+68 RT 19 PE  434+40 RT 29 CE 435+44 RT 29 CE 437+20 LT 9 PE 442+14 RT 26 PE 444+27 RT 15 PE 444+68 LT 20 PE 447+35 RT 12 PE 447+71 LT 14 PE 453+14 RT 19 PE 453+14 RT 19 PE 463+60 LT 18 PE 463+60 LT 19 PE 464+53 LT 15 PE 466+08 LT 28 PE 467+95 LT 28 PE 469+67 RT 25 PE 469+67 RT 25 PE 476+69 LT 14 PE 498+70 RT 21 PE 500+85 RT 13 PE				
351+71 LT 31 PE  366+87 RT 15 PE 376+19 RT 18 PE 420+09 LT 31 PE 428+07 LT 19 PE 431+68 RT 19 PE  434+40 RT 22 CE 435+44 RT 29 CE 437+20 LT 9 PE 442+14 RT 26 PE 443+74 LT 13 PE 444+68 LT 20 PE 444+68 LT 20 PE 447+35 RT 16 PE 447+71 LT 14 PE 453+14 RT 19 PE 463+90 LT 18 PE 463+90 LT 17 PE 464+53 LT 15 PE 467+95 LT 28 PE 467+95 LT 14 PE 467+95 LT 28 PE 467+95 LT 28 PE 467+95 LT 14 PE 467+95 LT 15 PE 467+95 LT 16 PE 467+95 LT 17 PE 467+95 LT 18 PE 467+95 LT 19 PE 468+70 RT 21 PE 500+85 RT 13 PE 500+85 RT 19				
366+87       RT       15       PE         376+19       RT       18       PE         420+09       LT       31       PE         428+07       LT       19       PE         431+68       RT       19       PE         434+40       RT       19       PE         435+44       RT       29       CE         437+20       LT       9       PE         442+14       RT       26       PE         443+74       LT       13       PE         444+27       RT       15       PE         444+68       LT       20       PE         444+68       LT       20       PE         447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+64       LT       17       PE         464+53       LT       17       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67 <td< td=""><td></td><td></td><td></td><td></td></td<>				
376+19       RT       18       PE         420+09       LT       31       PE         428+07       LT       19       PE         431+68       RT       29       CE         435+44       RT       29       CE         437+20       LT       9       PE         442+14       RT       26       PE         443+74       LT       13       PE         444+27       RT       15       PE         444+68       LT       20       PE         446+45       RT       12       PE         447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         469+67 <td< td=""><td></td><td></td><td></td><td>· <del>-</del></td></td<>				· <del>-</del>
420+09       LT       31       PE         428+07       LT       19       PE         431+68       RT       19       PE         431+68       RT       19       PE         431+68       RT       19       PE         434+40       RT       29       CE         435+44       RT       29       CE         437+20       LT       9       PE         442+14       RT       26       PE         443+74       LT       13       PE         443+74       LT       13       PE         444+27       RT       15       PE         444+68       LT       20       PE         446+45       RT       12       PE         447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+60       LT       17       PE         464+53       LT       15       PE         467+95       LT       28       PE         469+67 <td< td=""><td>366+87</td><td>RT</td><td>15</td><td>PE</td></td<>	366+87	RT	15	PE
428+07       LT       19       PE         431+68       RT       19       PE         431+68       RT       19       PE         431+68       RT       19       PE         434+40       RT       29       CE         435+44       RT       29       CE         437+20       LT       9       PE         442+14       RT       26       PE         443+74       LT       13       PE         444+27       RT       15       PE         444+68       LT       20       PE         446+45       RT       12       PE         447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         467+95       LT       28       PE         467+95       LT       28       PE         476+00       LT       14       PE         498+70 <td< td=""><td>376+19</td><td>RT</td><td>18</td><td>PE</td></td<>	376+19	RT	18	PE
431+68       RT       19       PE         434+40       RT       22       CE         435+44       RT       29       CE         437+20       LT       9       PE         442+14       RT       26       PE         443+74       LT       13       PE         444+27       RT       15       PE         444+68       LT       20       PE         446+45       RT       12       PE         447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05 <td< td=""><td>420+09</td><td>LT</td><td>31</td><td>PE</td></td<>	420+09	LT	31	PE
434+40       RT       22       CE         435+44       RT       29       CE         437+20       LT       9       PE         442+14       RT       26       PE         443+74       LT       13       PE         444+27       RT       15       PE         444+68       LT       20       PE         444+68       RT       12       PE         447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85 <td< td=""><td>428+07</td><td>LT</td><td>19</td><td>PE</td></td<>	428+07	LT	19	PE
434+40       RT       22       CE         435+44       RT       29       CE         437+20       LT       9       PE         442+14       RT       26       PE         443+74       LT       13       PE         444+27       RT       15       PE         444+68       LT       20       PE         444+68       RT       12       PE         447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85 <td< td=""><td>431+68</td><td></td><td>19</td><td>PE</td></td<>	431+68		19	PE
435+44       RT       29       CE         437+20       LT       9       PE         442+14       RT       26       PE         443+74       LT       13       PE         444+27       RT       15       PE         444+68       LT       20       PE         446+45       RT       12       PE         447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         498+70       RT       21       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00 <td< td=""><td></td><td></td><td></td><td></td></td<>				
437+20       LT       9       PE         442+14       RT       26       PE         443+74       LT       13       PE         444+27       RT       15       PE         444+27       RT       15       PE         444+68       LT       20       PE         446+45       RT       12       PE         447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         469+67       RT       25       PE         476+95       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22 <td< td=""><td>434+40</td><td>RT</td><td>22</td><td>CE</td></td<>	434+40	RT	22	CE
442+14       RT       26       PE         443+74       LT       13       PE         444+27       RT       15       PE         444+68       LT       20       PE         446+45       RT       12       PE         447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00 <t< td=""><td>435+44</td><td>RT</td><td>29</td><td>CE</td></t<>	435+44	RT	29	CE
443+74       LT       13       PE         444+27       RT       15       PE         444+68       LT       20       PE         446+45       RT       12       PE         447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	437+20	LT	9	PE
444+27       RT       15       PE         444+68       LT       20       PE         446+45       RT       12       PE         447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	442+14	RT	26	PE
444+68       LT       20       PE         446+45       RT       12       PE         447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+05       LT       17       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	443+74	LT	13	PE
444+68       LT       20       PE         446+45       RT       12       PE         447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+05       LT       17       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT				
446+45       RT       12       PE         447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	444+27	RT	15	PE
447+35       RT       16       PE         447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	444+68	LT	20	PE
447+71       LT       14       PE         453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	446+45	RT	12	PE
453+14       RT       19       PE         463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	447+35	RT	16	PE
463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	447+71	LT	14	PE
463+64       LT       18       PE         463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT				
463+90       LT       17       PE         464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	453+14	RT	19	PE
464+53       LT       15       PE         466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	463+64	LT	18	PE
466+08       LT       28       PE         467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	463+90	LT	17	PE
467+95       LT       28       PE         469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	464+53	LT	15	PE
469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	466+08	LT	28	PE
469+67       RT       25       PE         476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT				
476+00       LT       20       PE         476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	467+95	LT	28	PE
476+69       LT       14       PE         497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	469+67	RT	25	PE
497+38       LT       15       PE         498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	476+00	LT	20	PE
498+70       RT       21       PE         500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	476+69	LT	14	PE
500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	497+38	LT	15	PE
500+05       LT       17       PE         500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT				
500+85       RT       13       PE         507+22       RT       40       CE         529+00       CL       46       END PROJECT	498+70	RT	21	PE
507+22 RT 40 CE 529+00 CL 46 END PROJECT	500+05			
529+00 CL 46 END PROJECT	500+85	RT	13	PE
	507+22	RT	40	CE
TOTAL 0010 751	529+00	CL	46	END PROJECT
TOTAL 0010 751				
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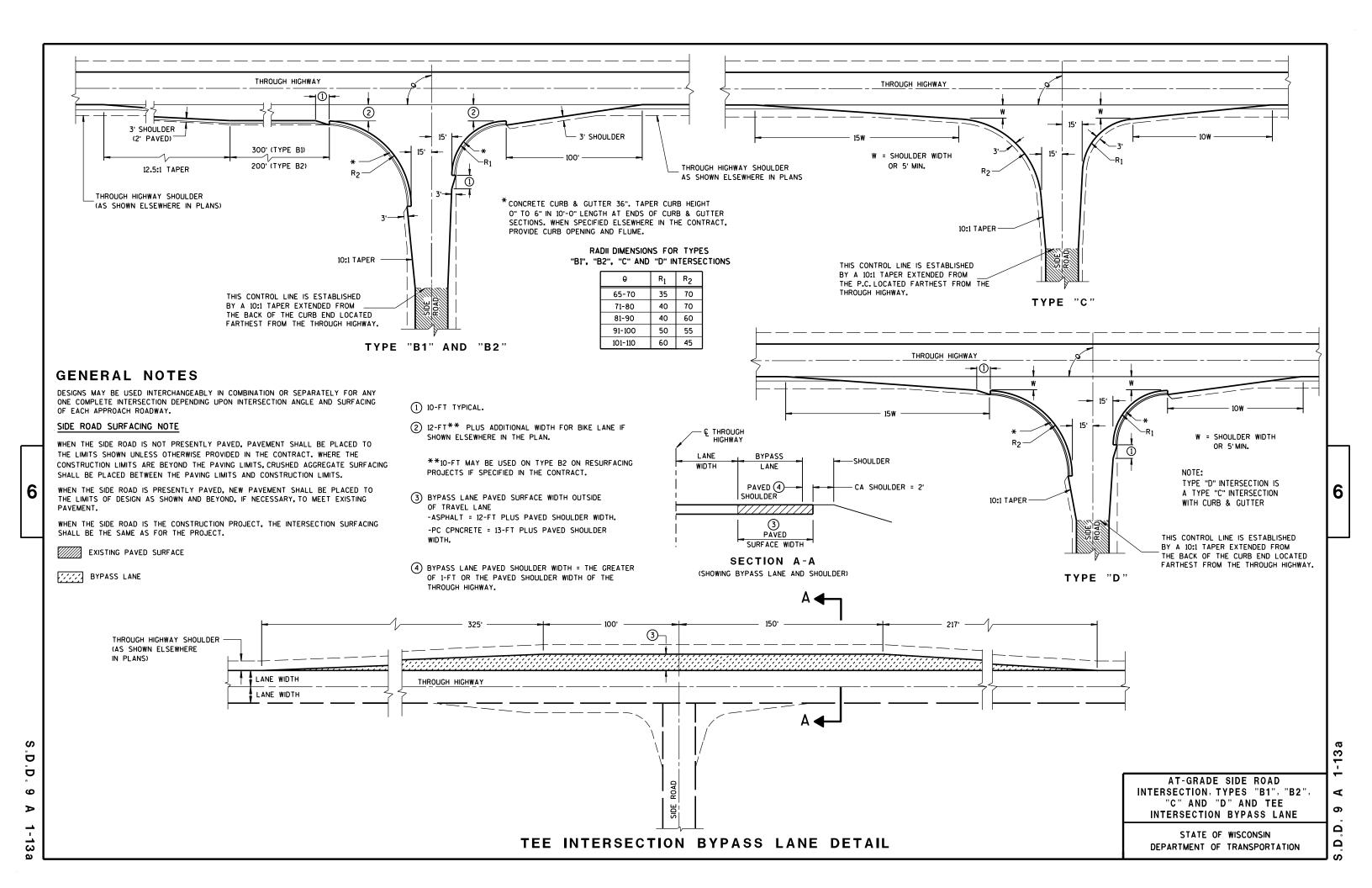
PROJECT NO:5735-04-60 HWY:STH 16 COUNTY:MONROE MISCELLANEOUS QUANTITIES SHEET: **E** 

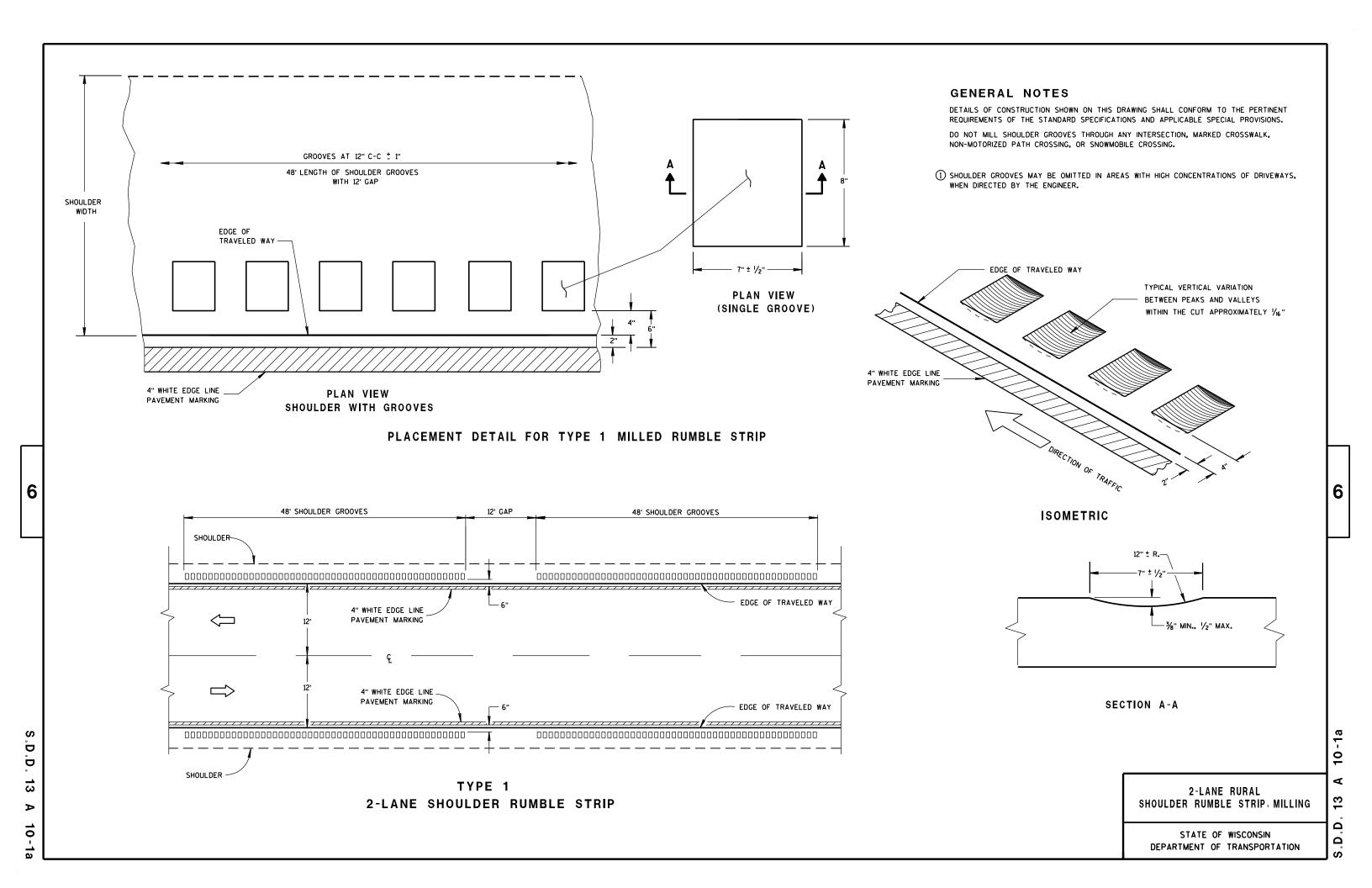
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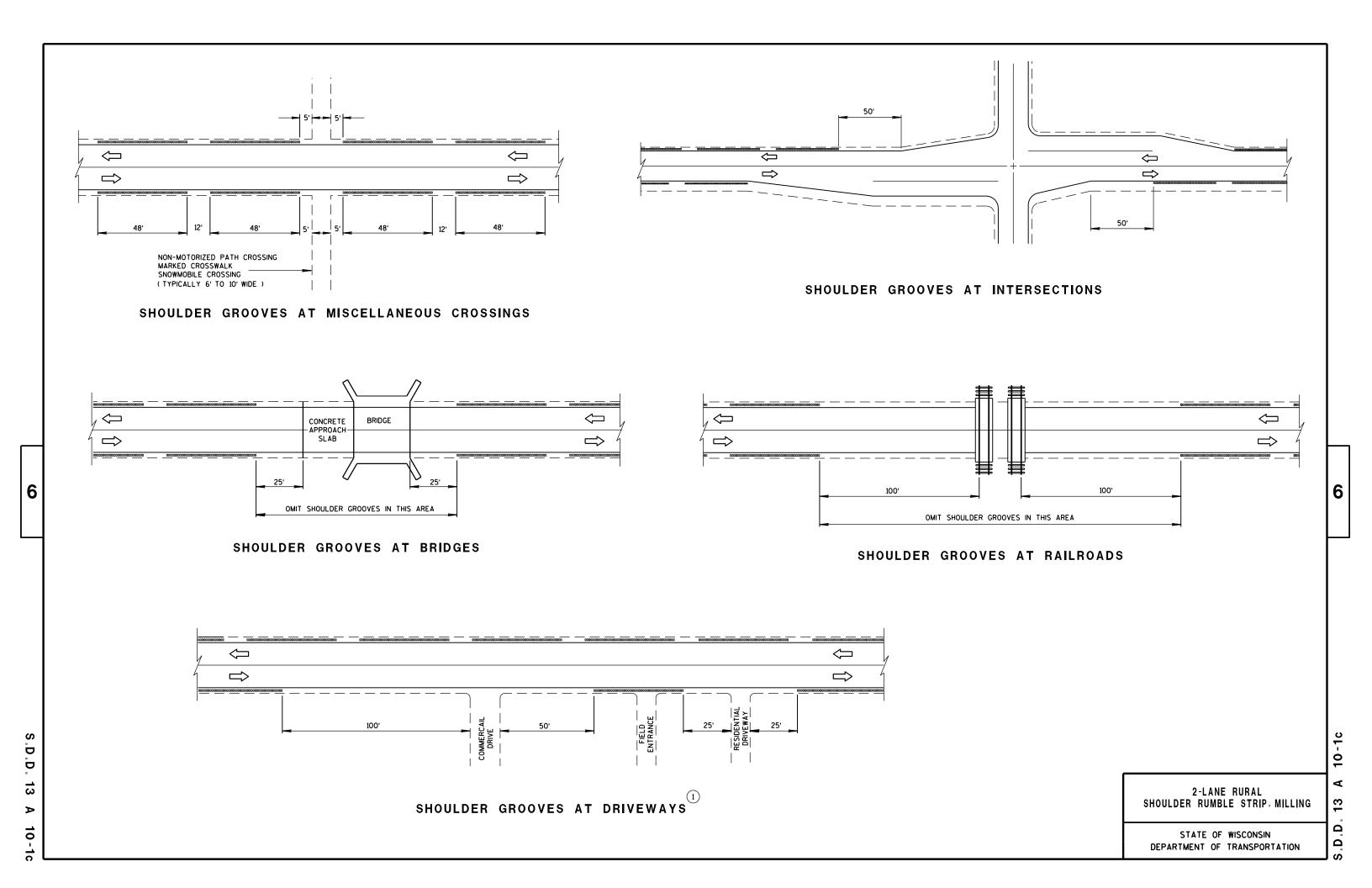
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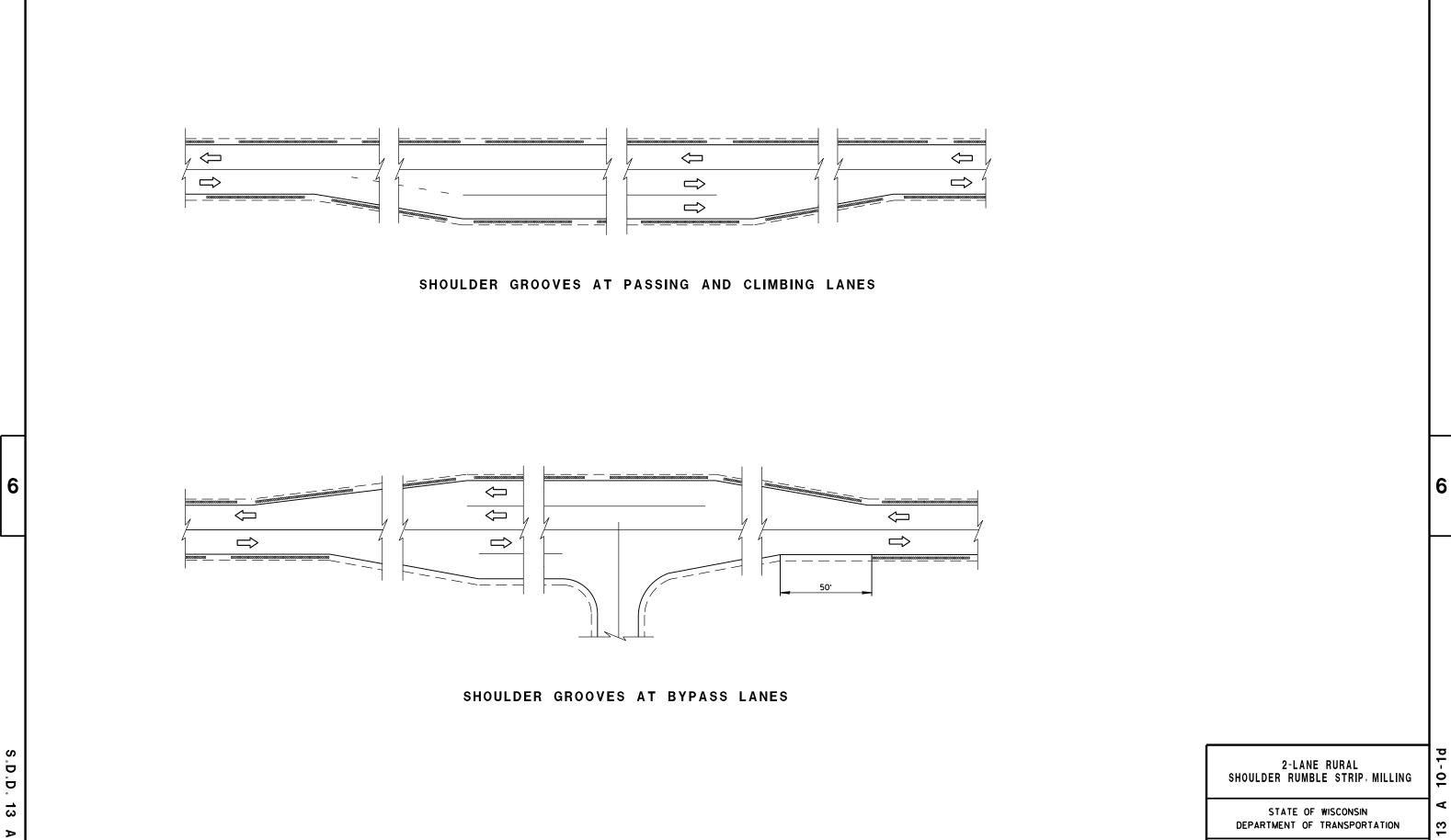
# Standard Detail Drawing List

09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
13A10-01A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
14B20-11E	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILING TYPES "F" AND "W"
14B24-08A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY





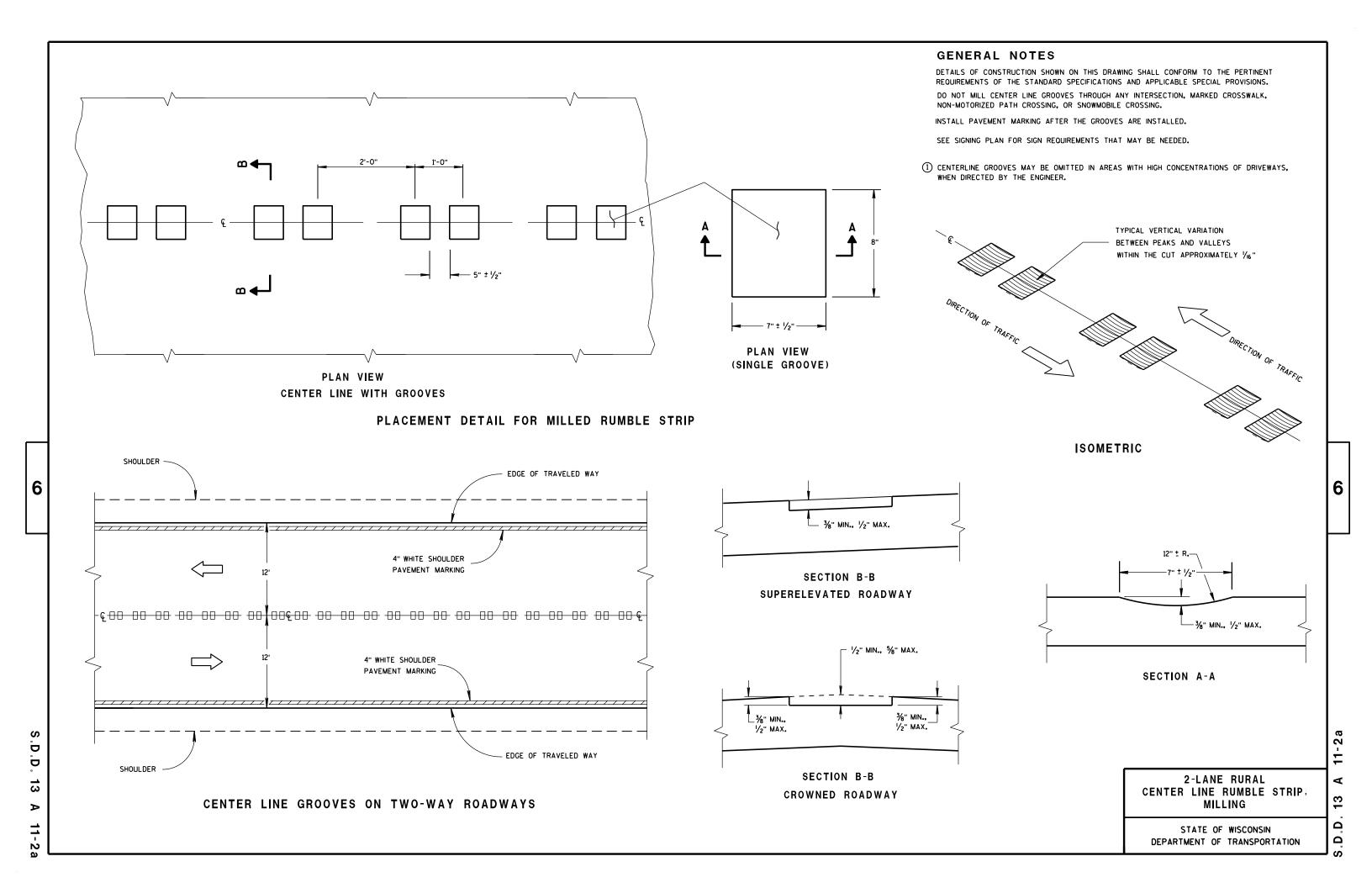


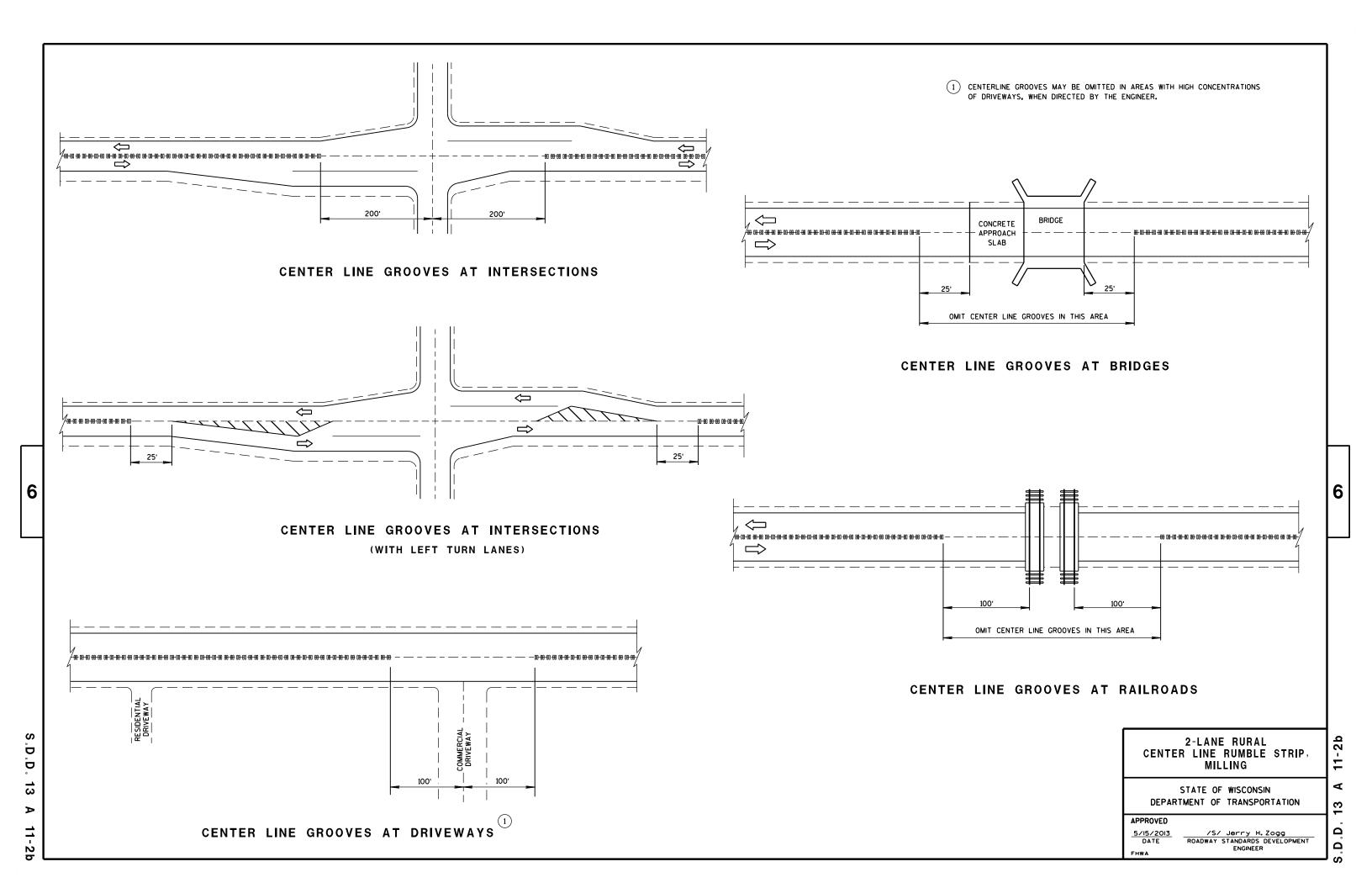


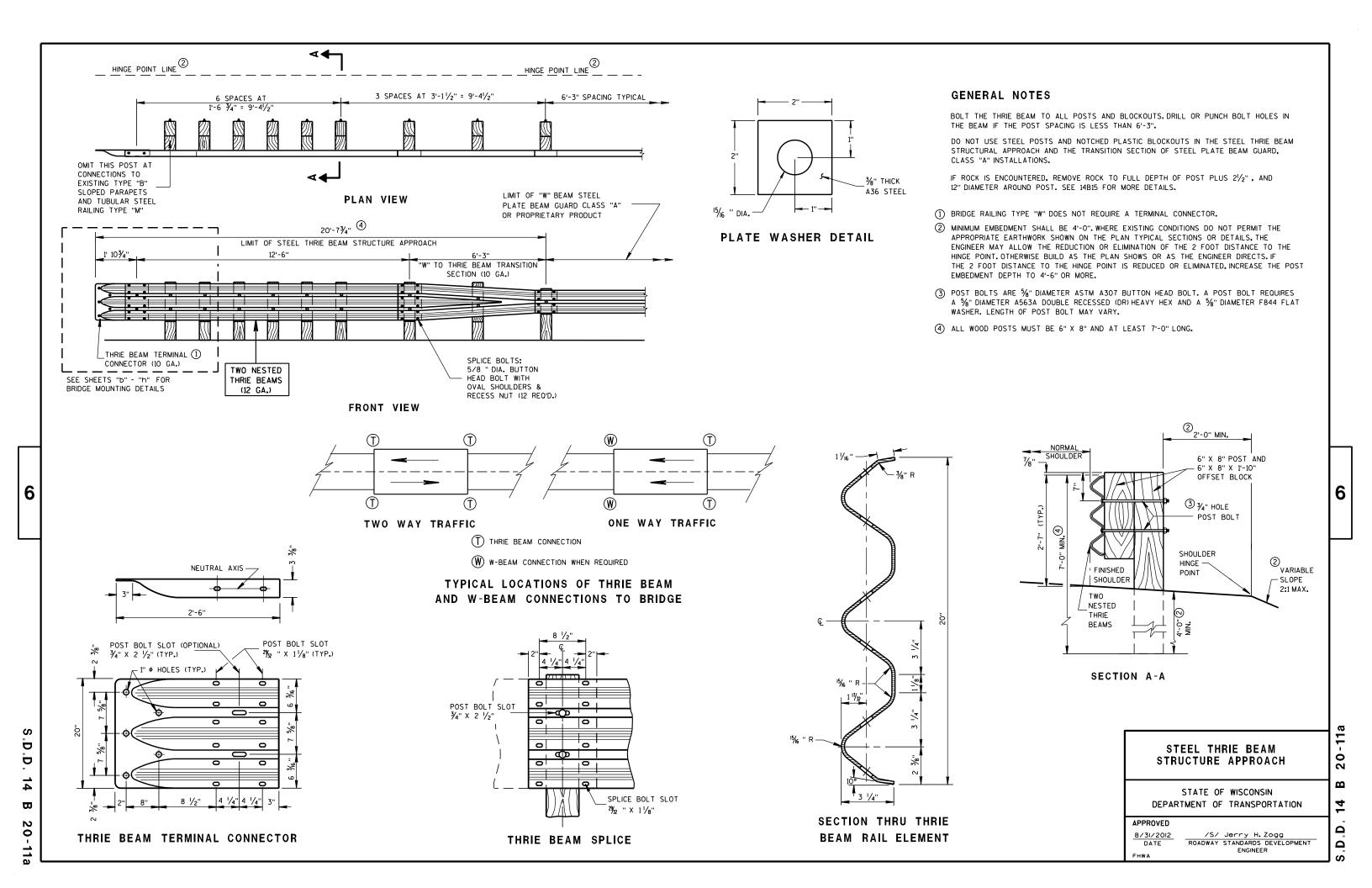
10-1d

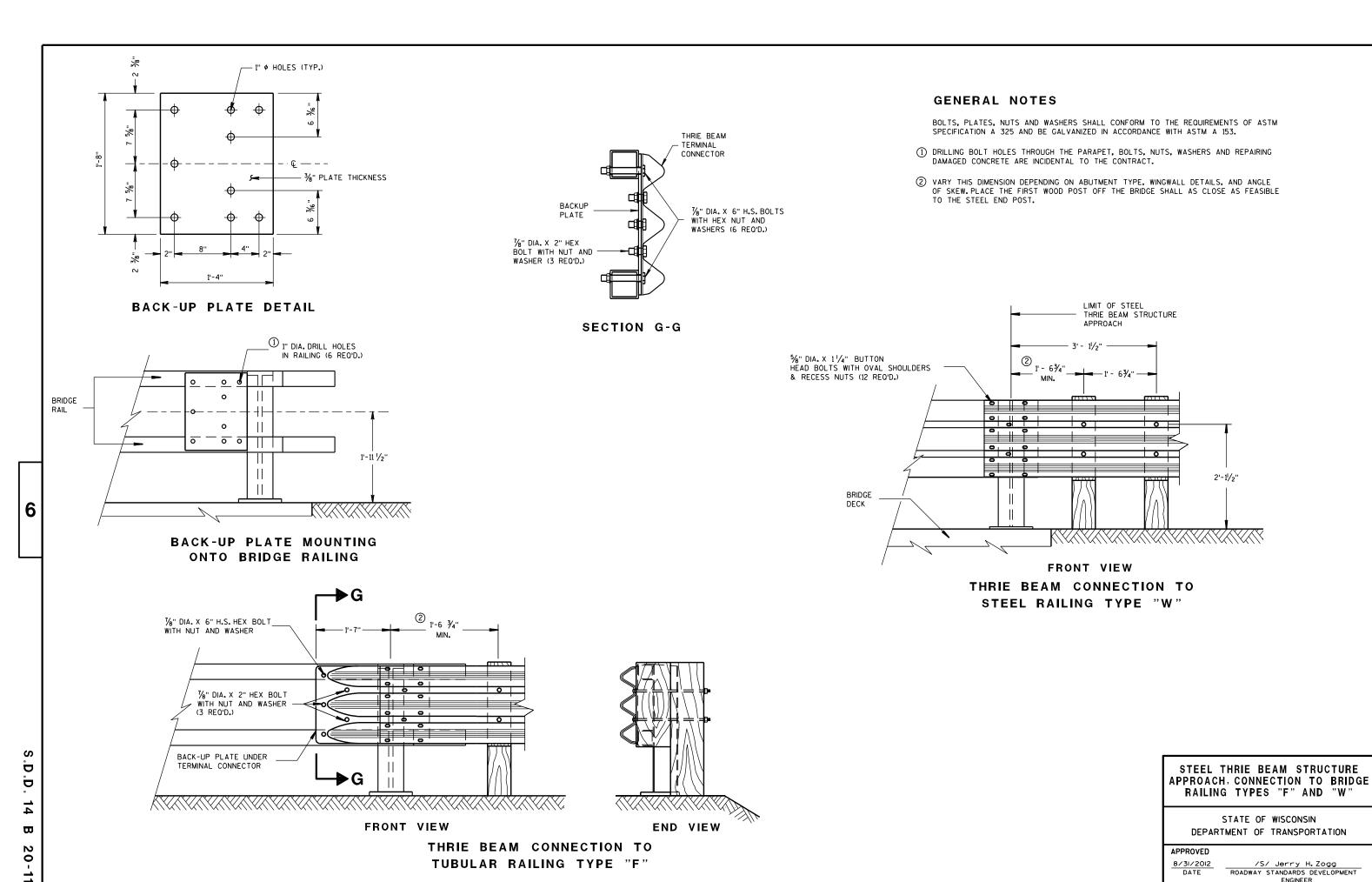
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/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER 12/17/2012 DATE



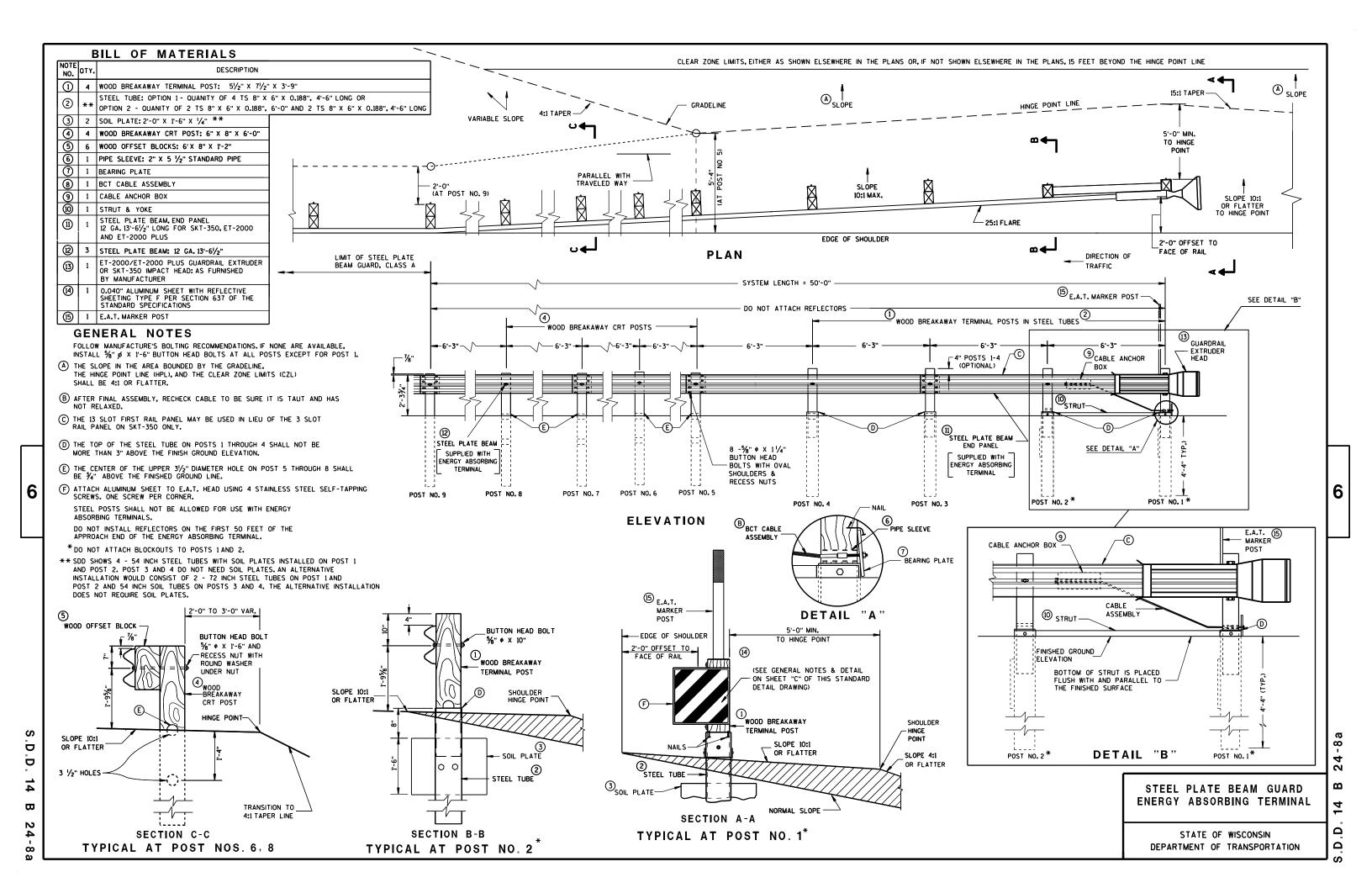


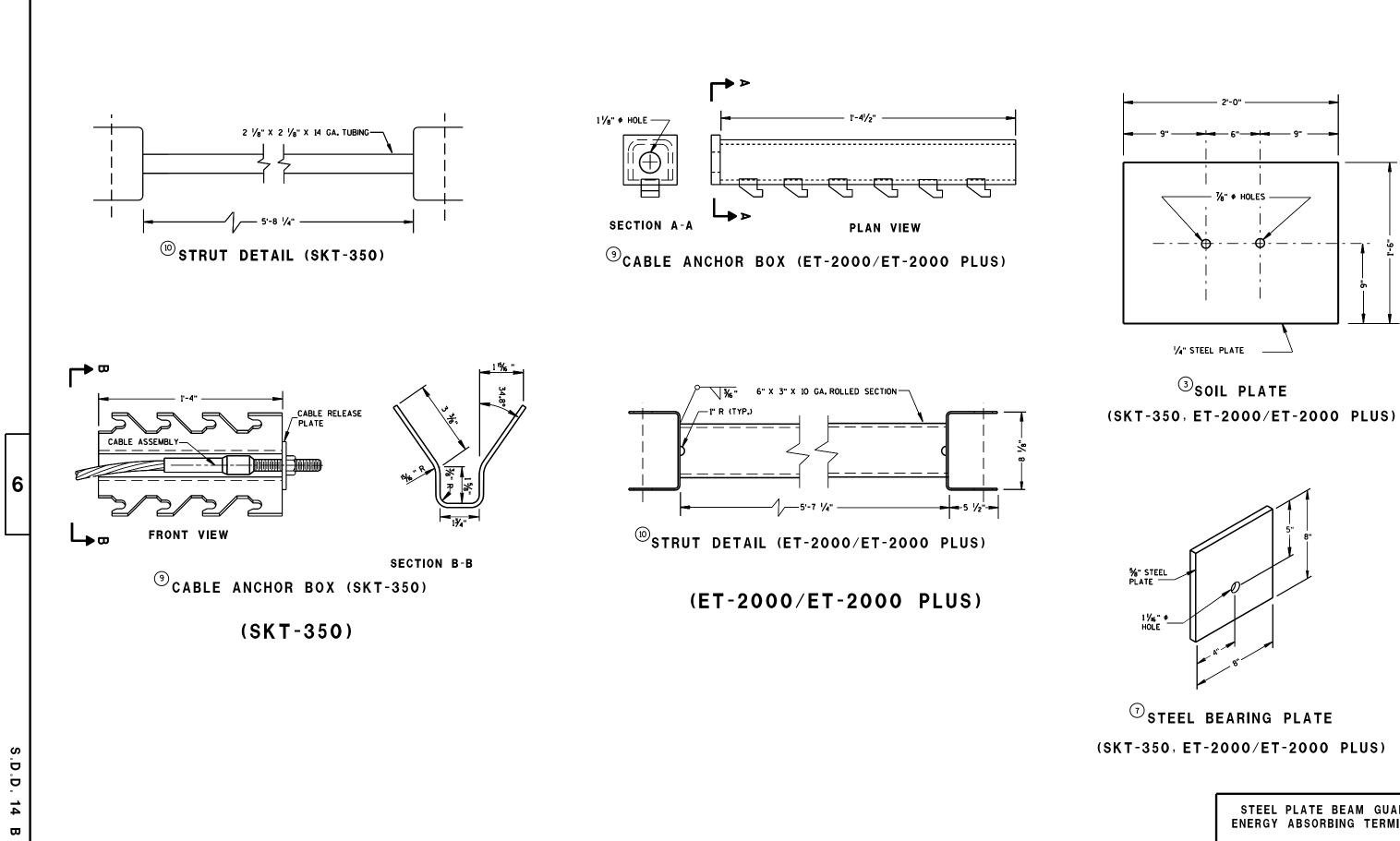




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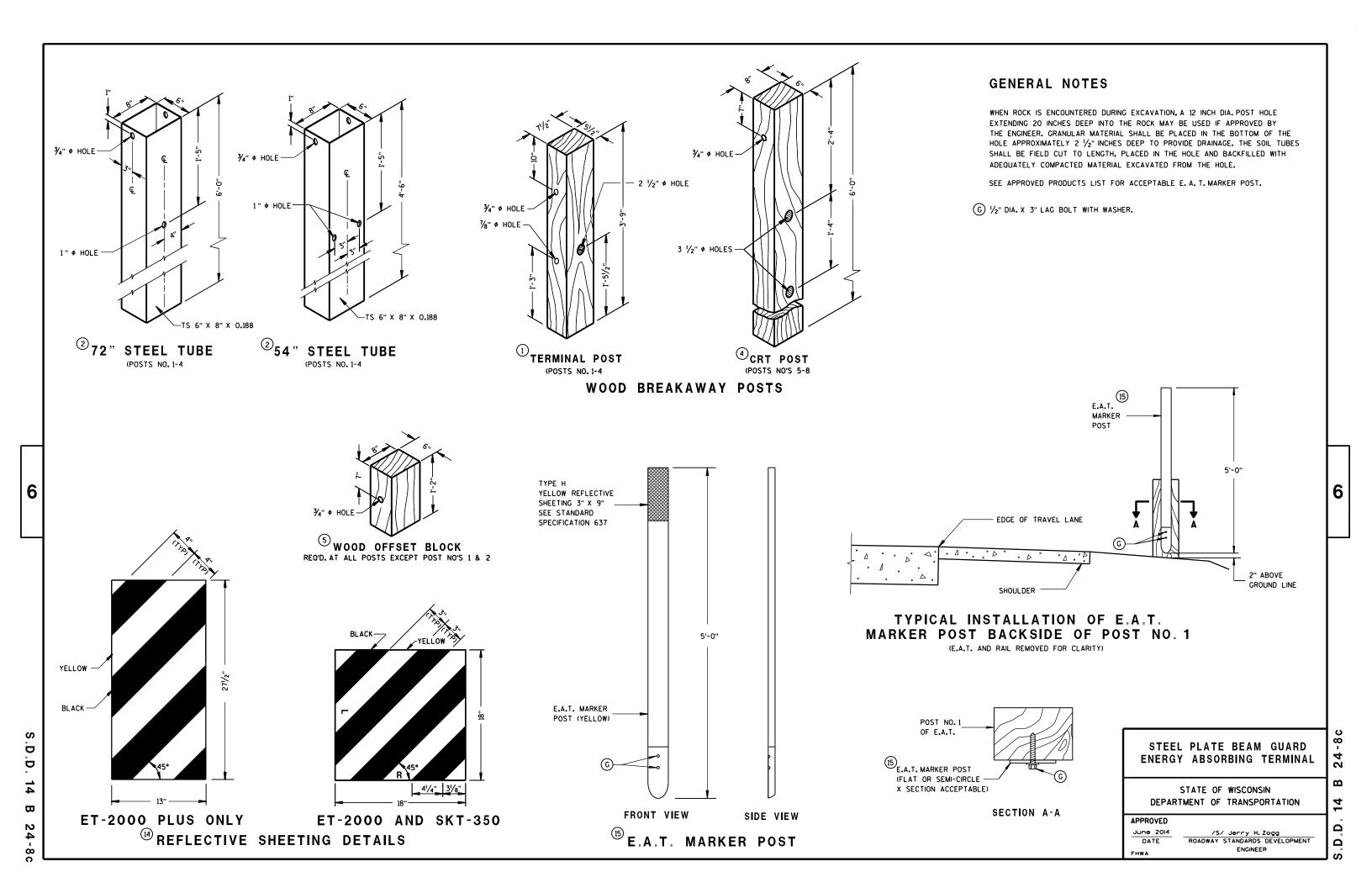




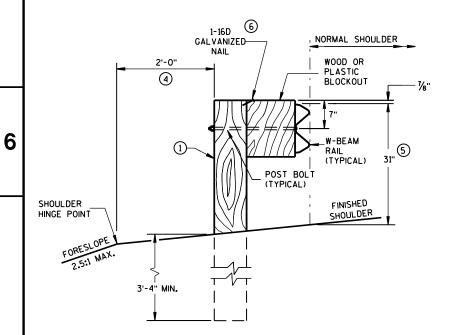
24-8b

STEEL PLATE BEAM GUARD **ENERGY ABSORBING TERMINAL** 

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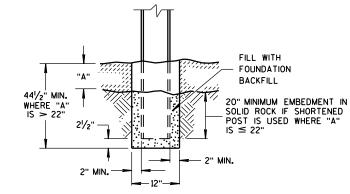


- 2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 21/2 INCHES 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.
- 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 273/4" TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

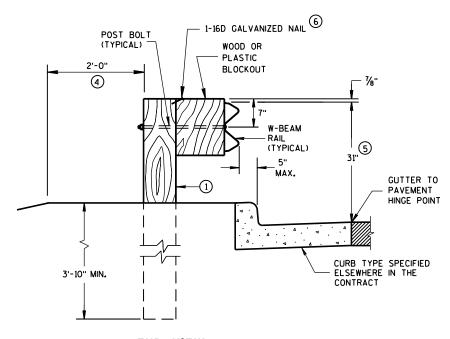


**END VIEW** 

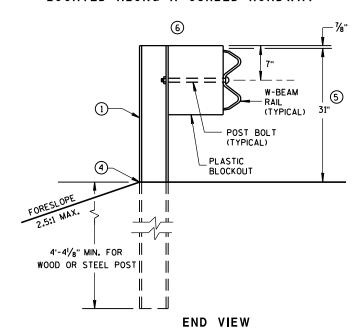
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



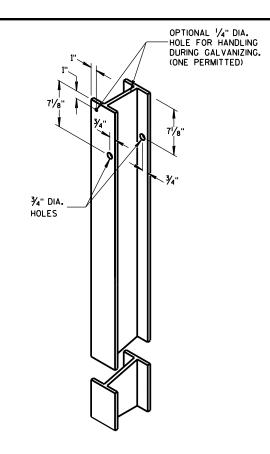
**END VIEW** SETTING STEEL OR WOOD POST IN ROCK 3



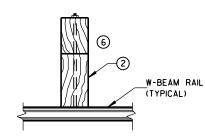
**END VIEW** LOCATED ALONG A CURBED ROADWAY



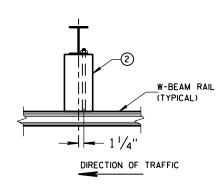
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



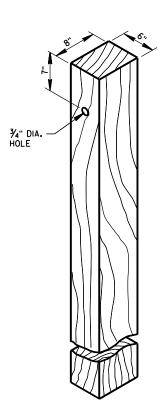
STEEL POST & HOLE PUNCHING DETAIL (w6X9)<sup>①</sup>



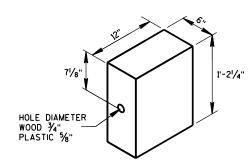
**PLAN VIEW** WOOD POST, **BLOCKOUT & BEAM** 



**PLAN VIEW** STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

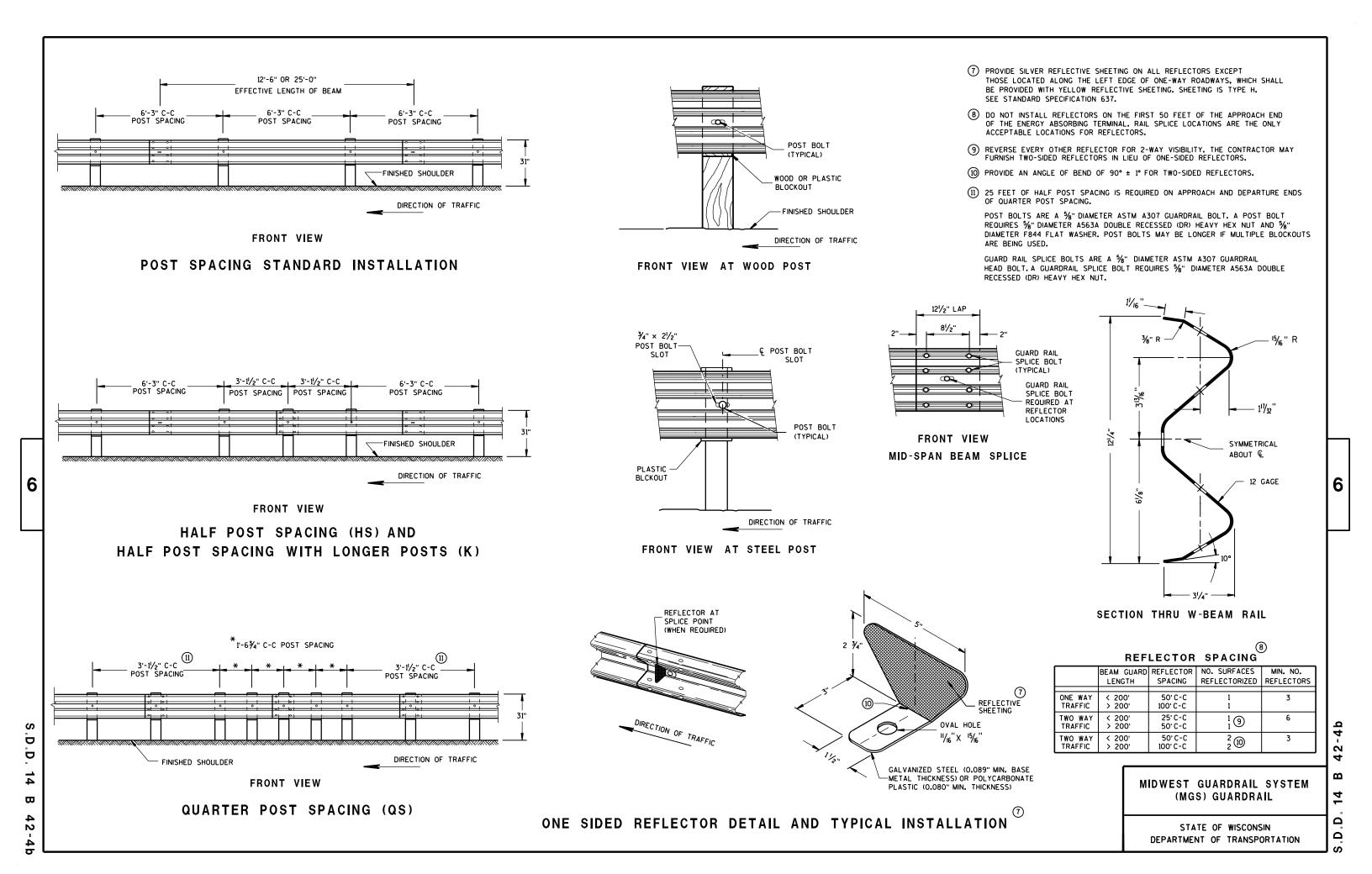
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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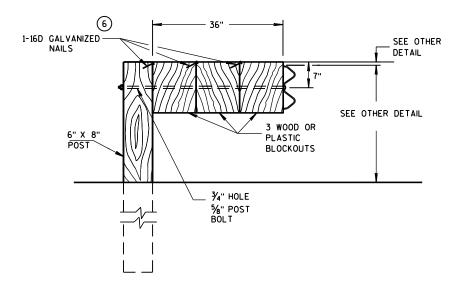
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#### DETAIL FOR 16" BLOCKOUT DEPTH

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.

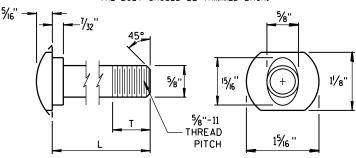


#### DETAIL FOR 36" BLOCKOUT DEPTH

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.

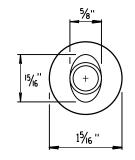
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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.

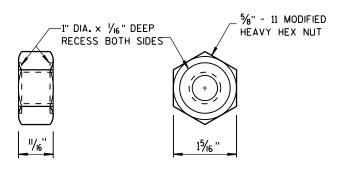


POST BOLT TABLE

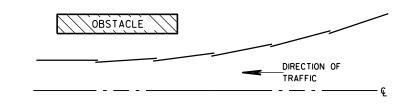
11/8"
-70
13/4"
4"
4½ <sub>6</sub> "
4"
41/16"
4"



ALTERNATE BOLT HEAD

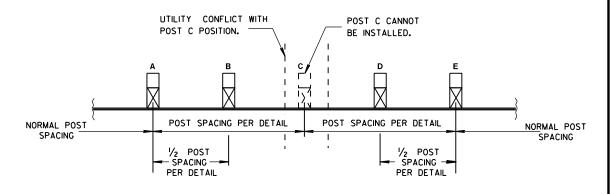


POST BOLT, SPLICE BOLT AND RECESS NUT

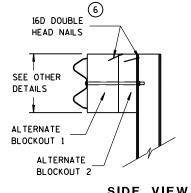


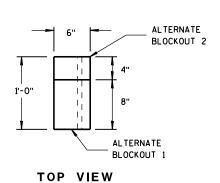
#### **PLAN VIEW**

## **BEAM LAPPING DETAIL**



# POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

# ALTERNATE WOOD **BLOCKOUT DETAIL**

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

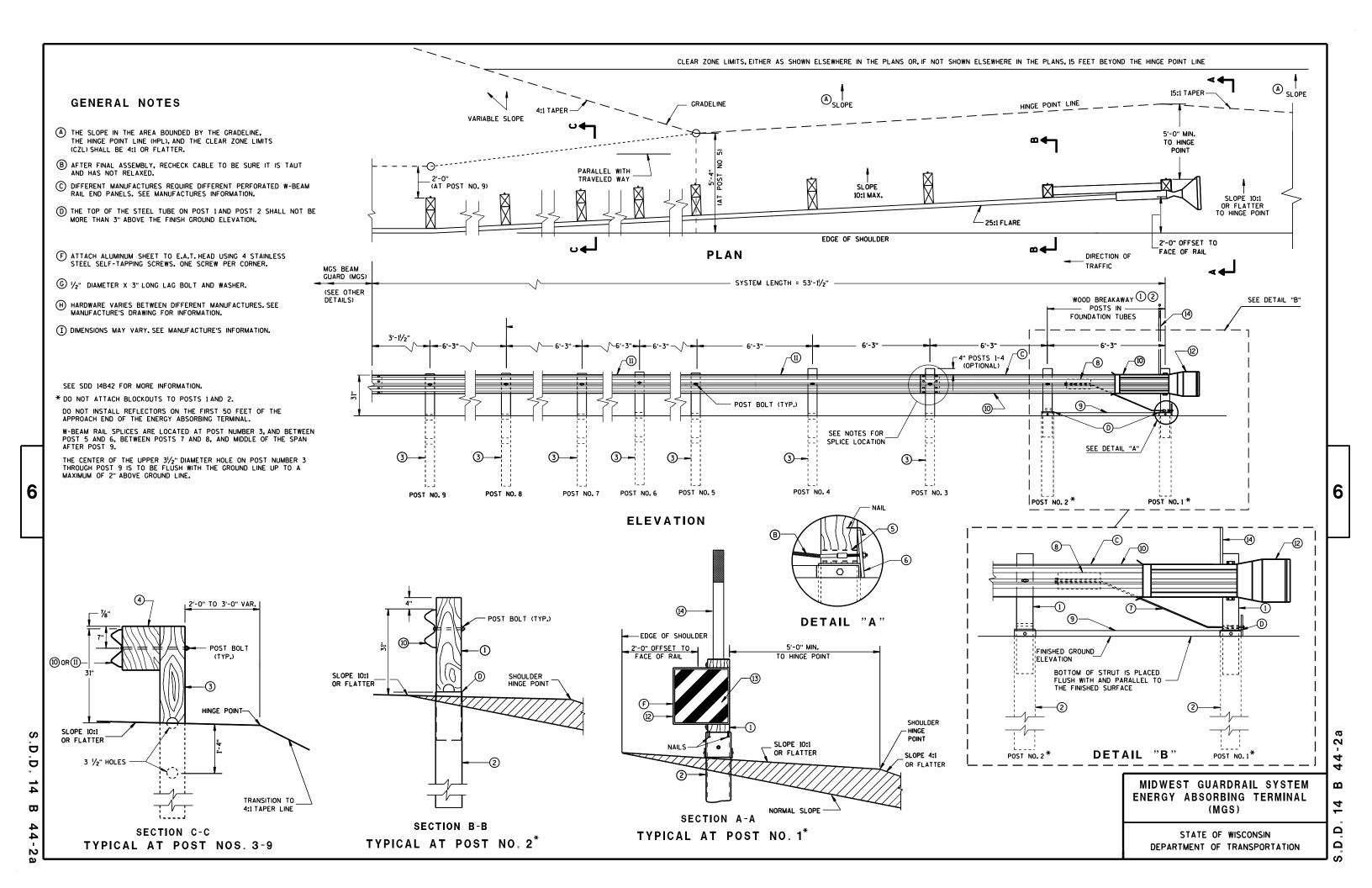
/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

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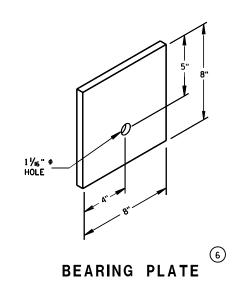
## SECTION A-A SECTION B-B

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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
2	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.
(11)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
12	END SECTION EAT
(3)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)

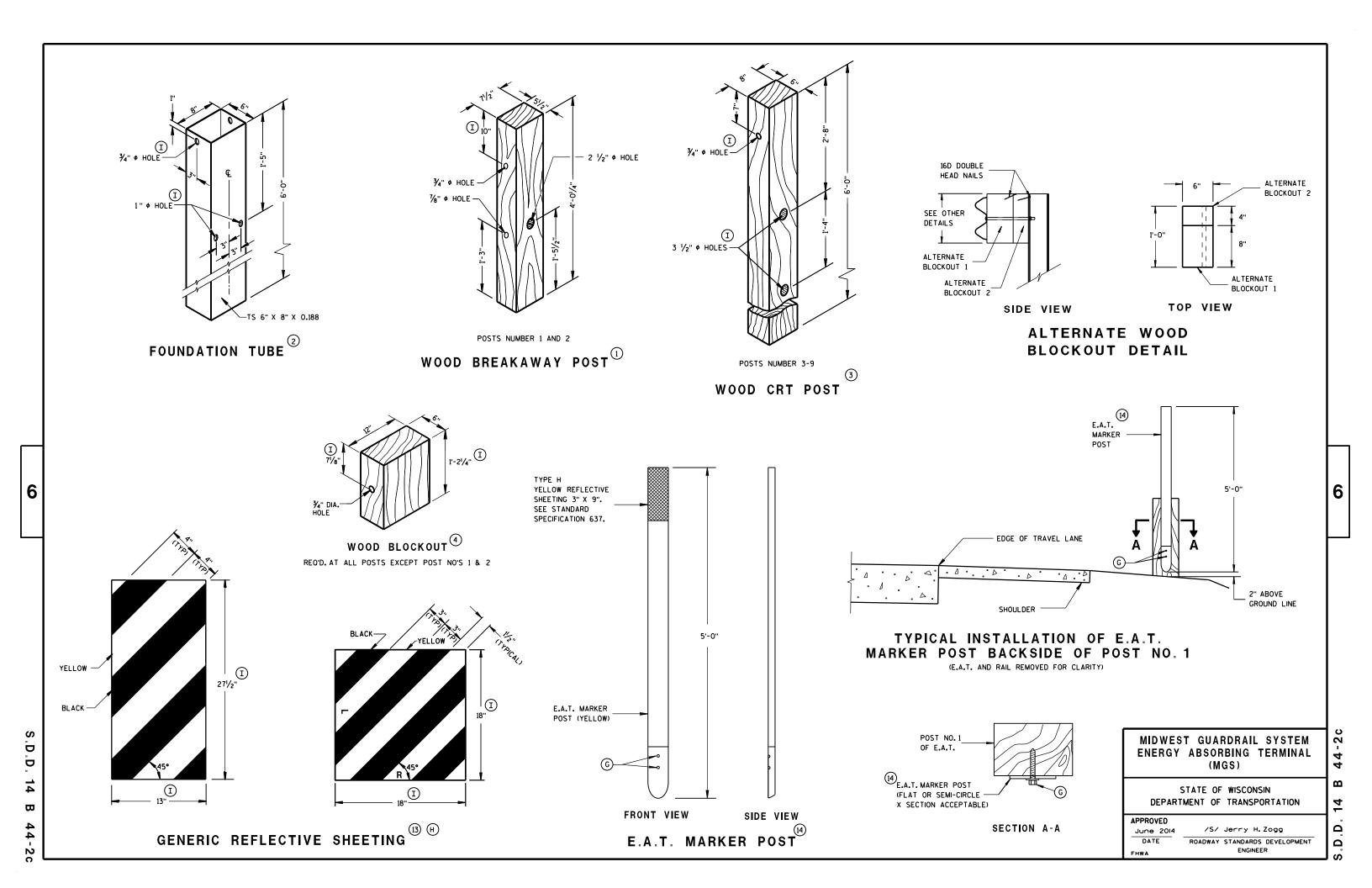


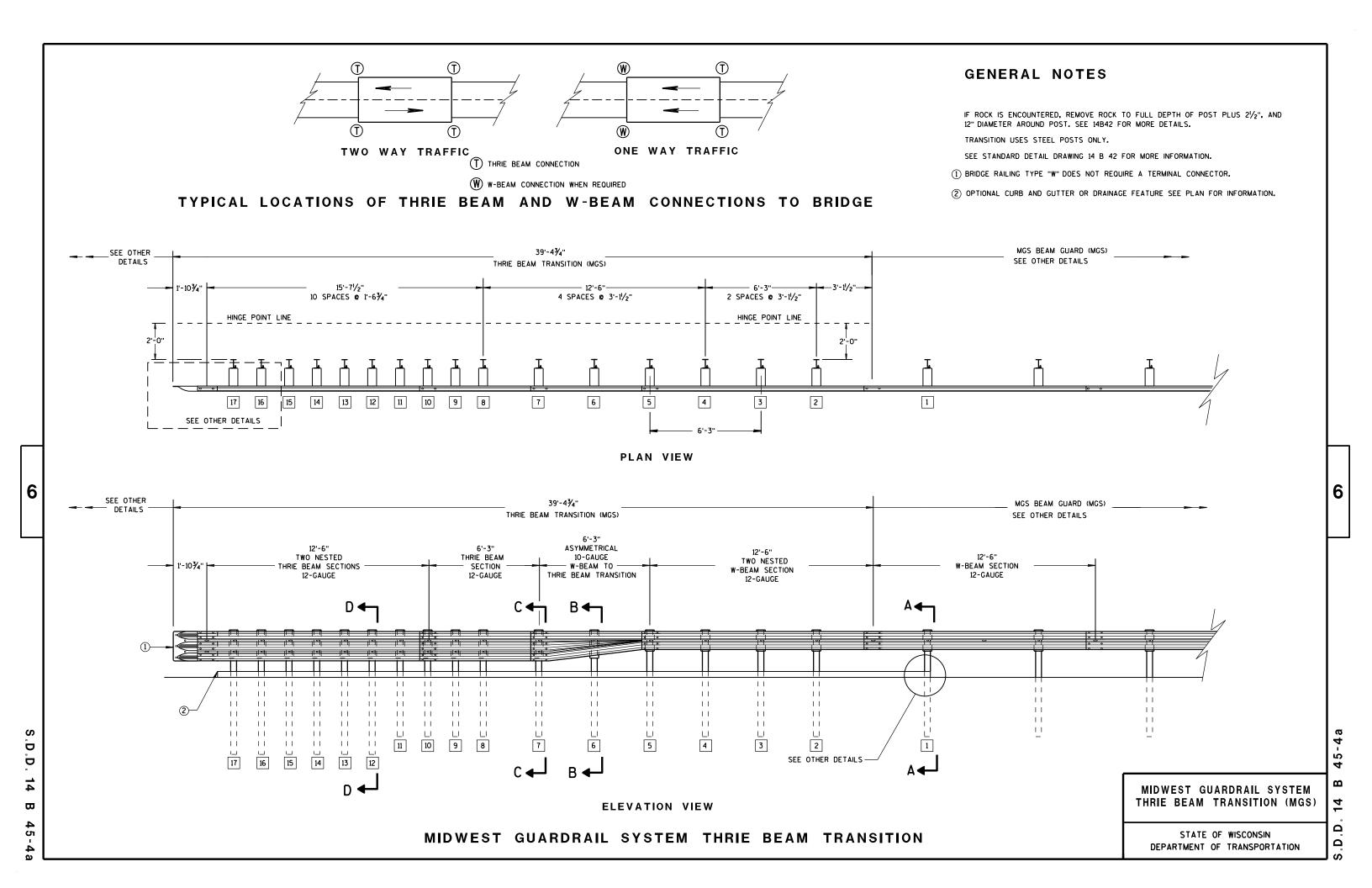
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

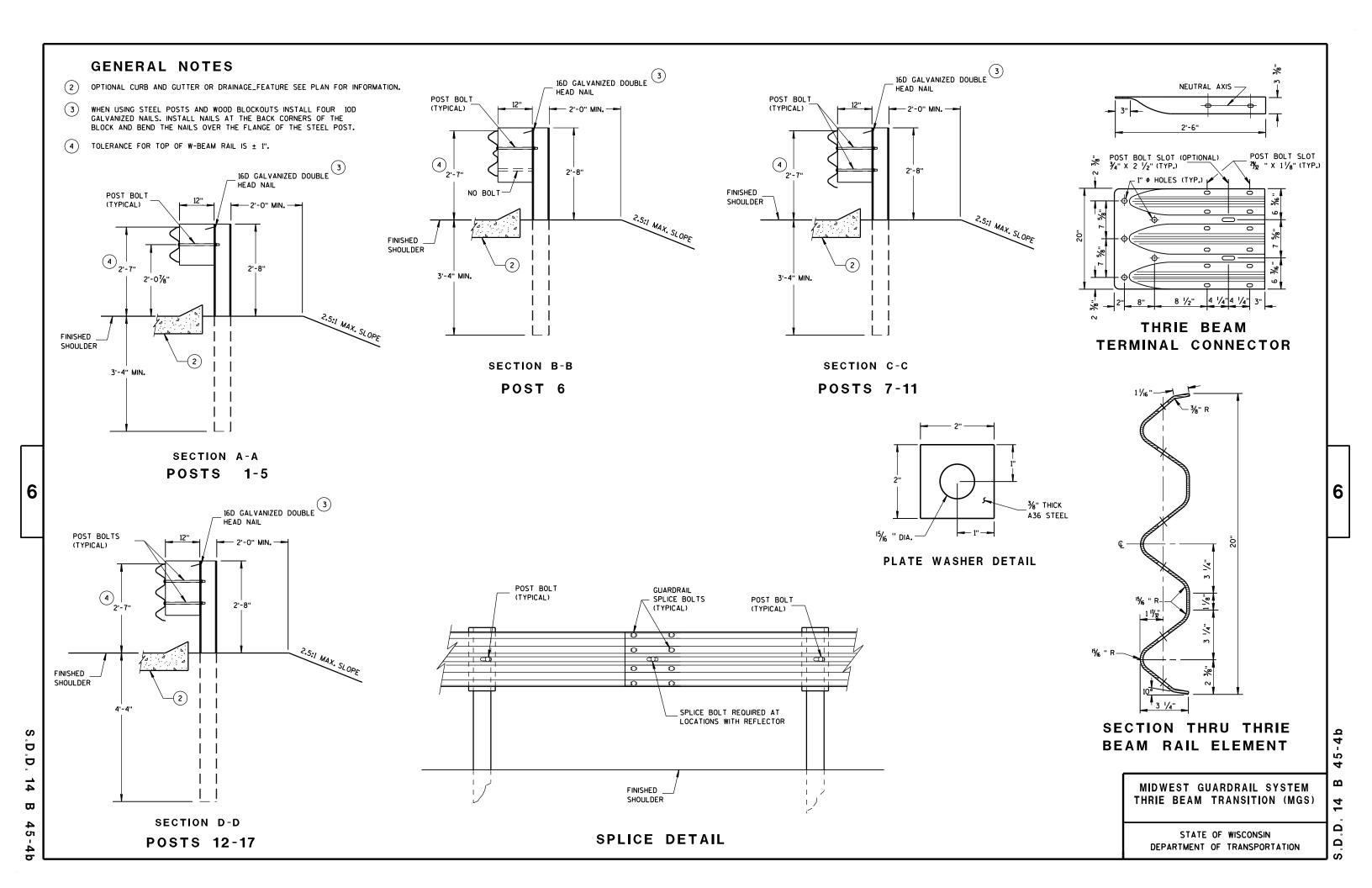
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

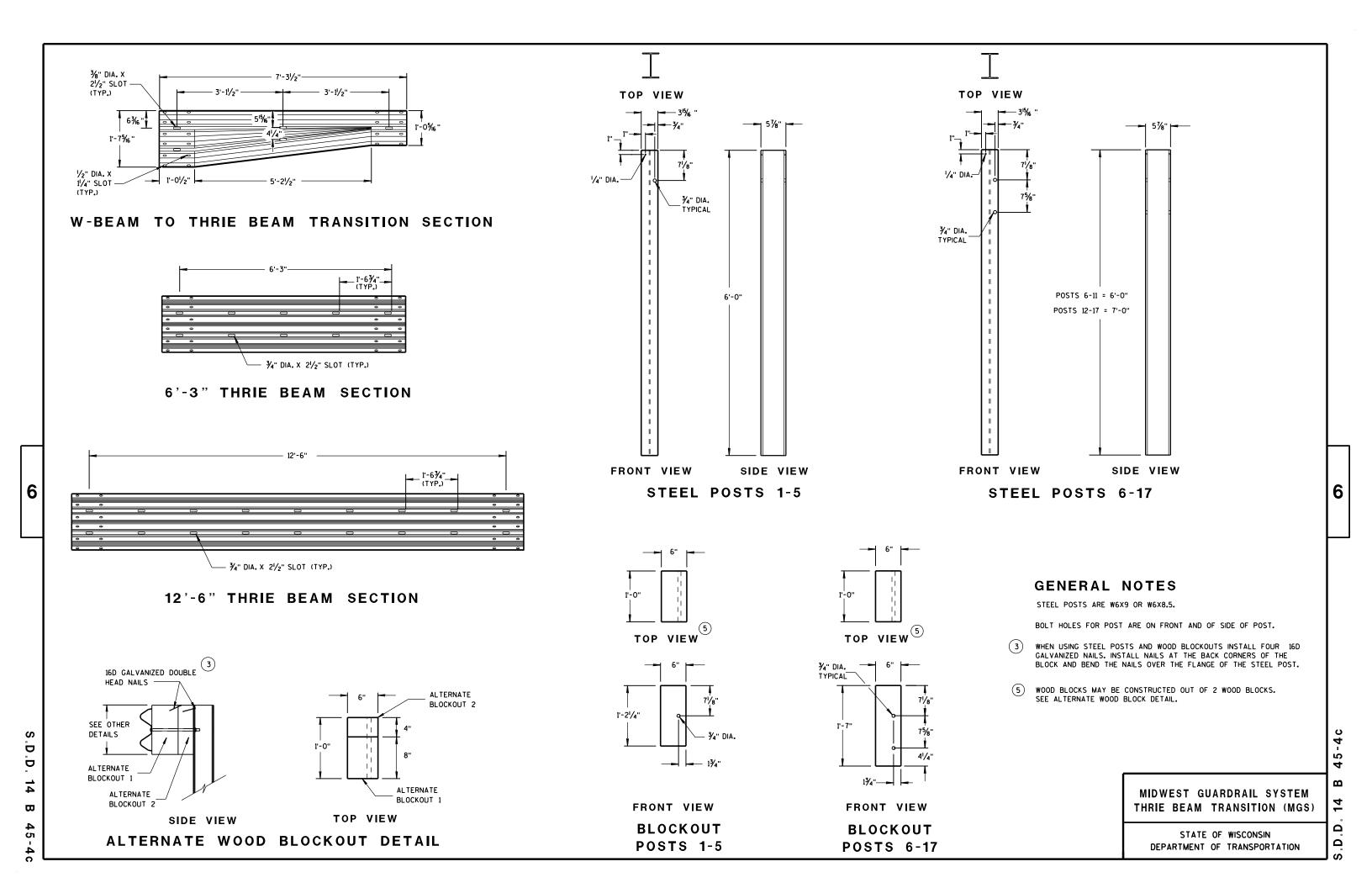
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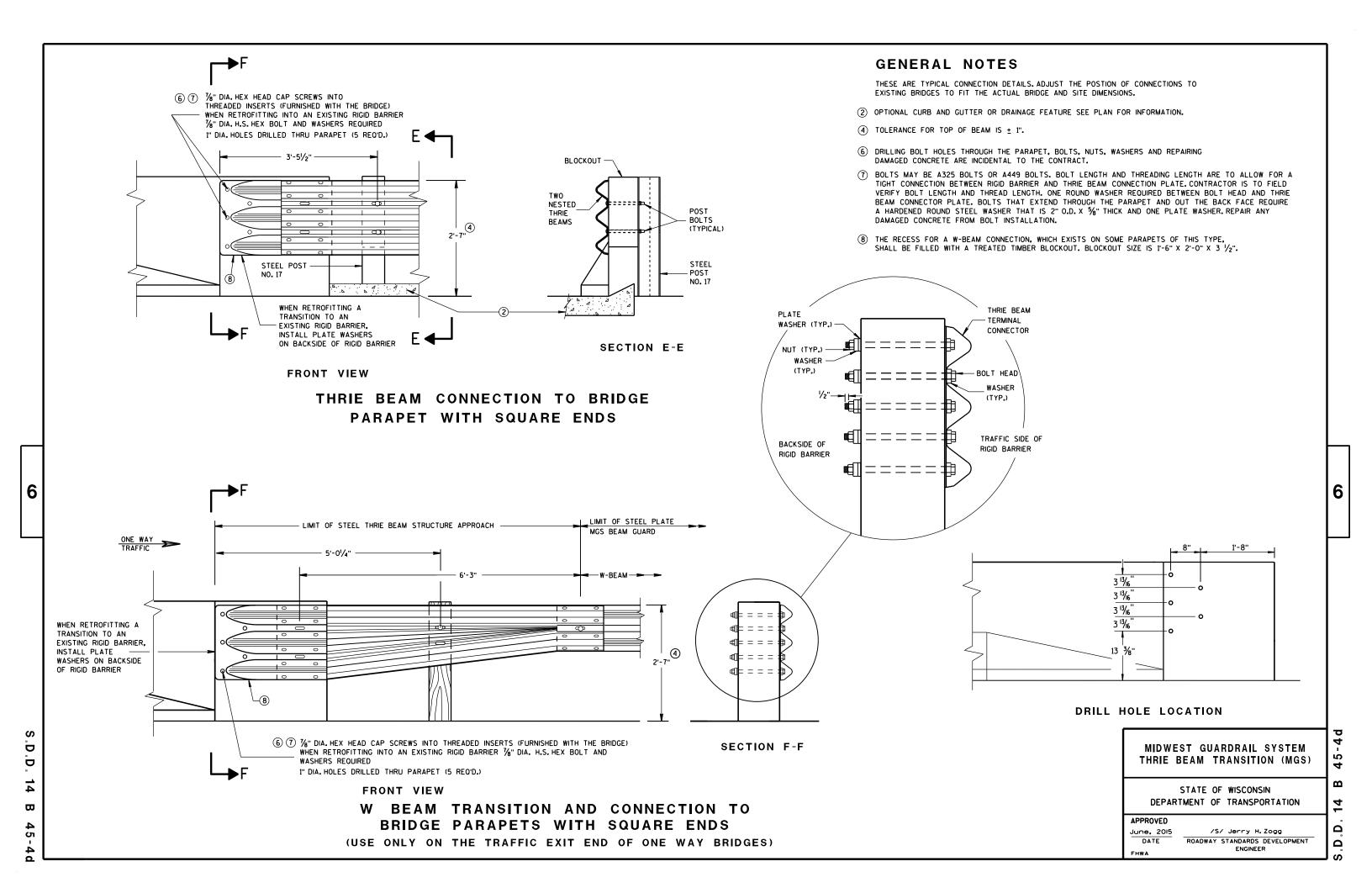
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### **GENERAL NOTES**

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

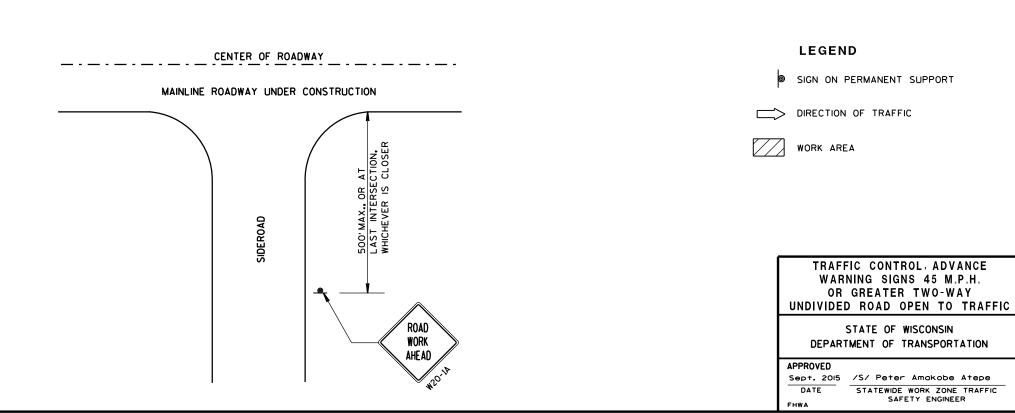
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

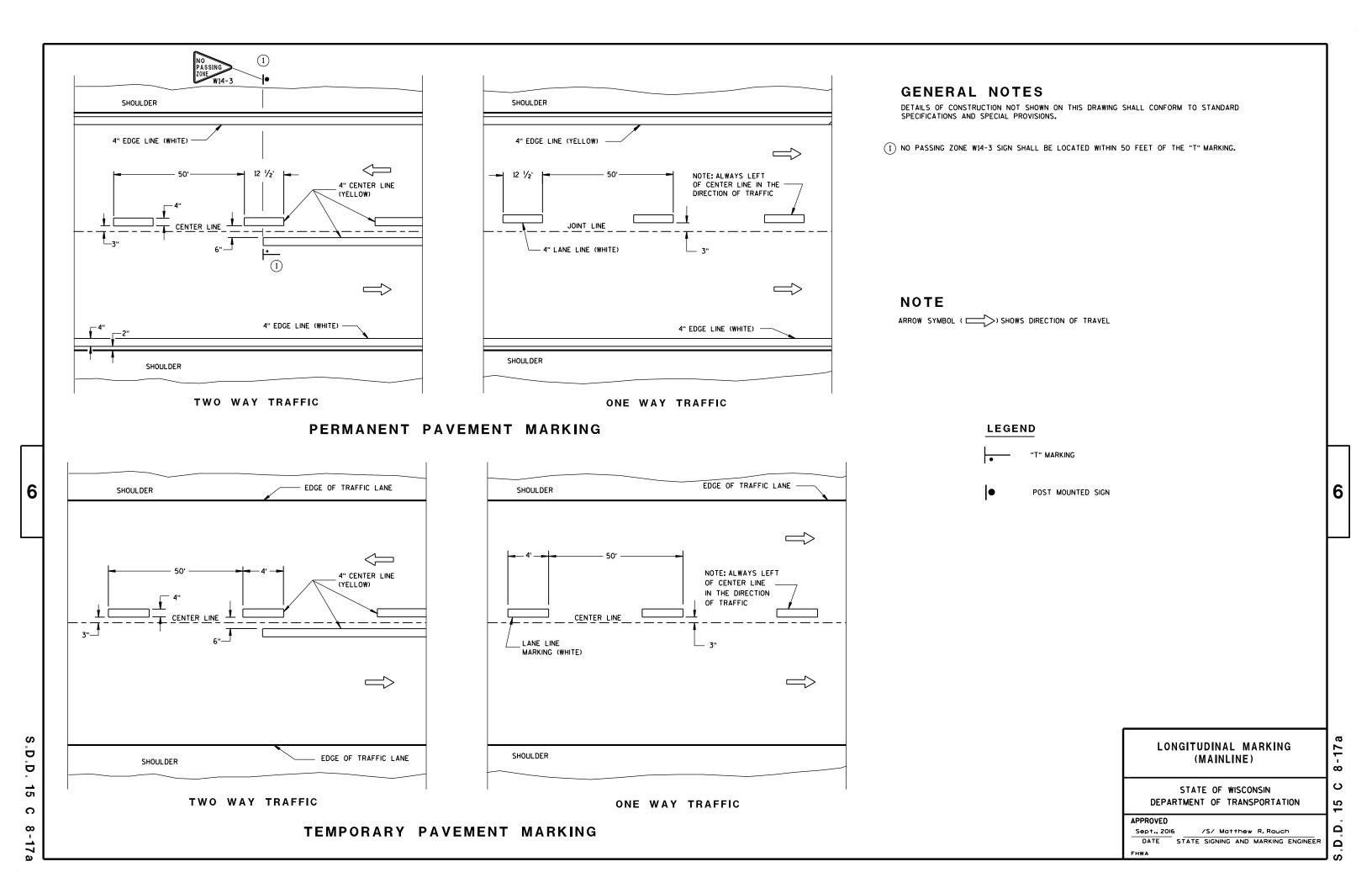
- \* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- \* PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

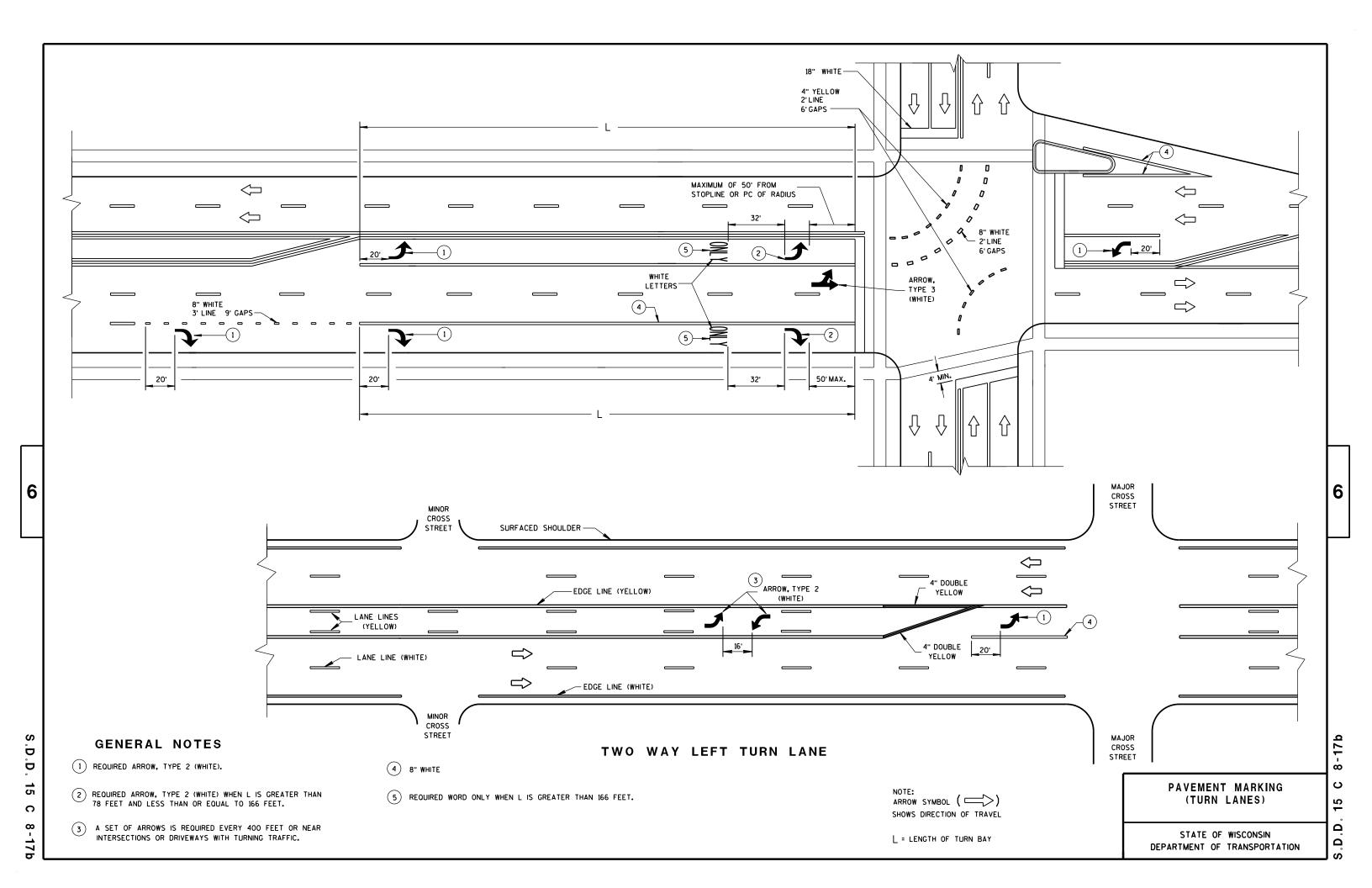


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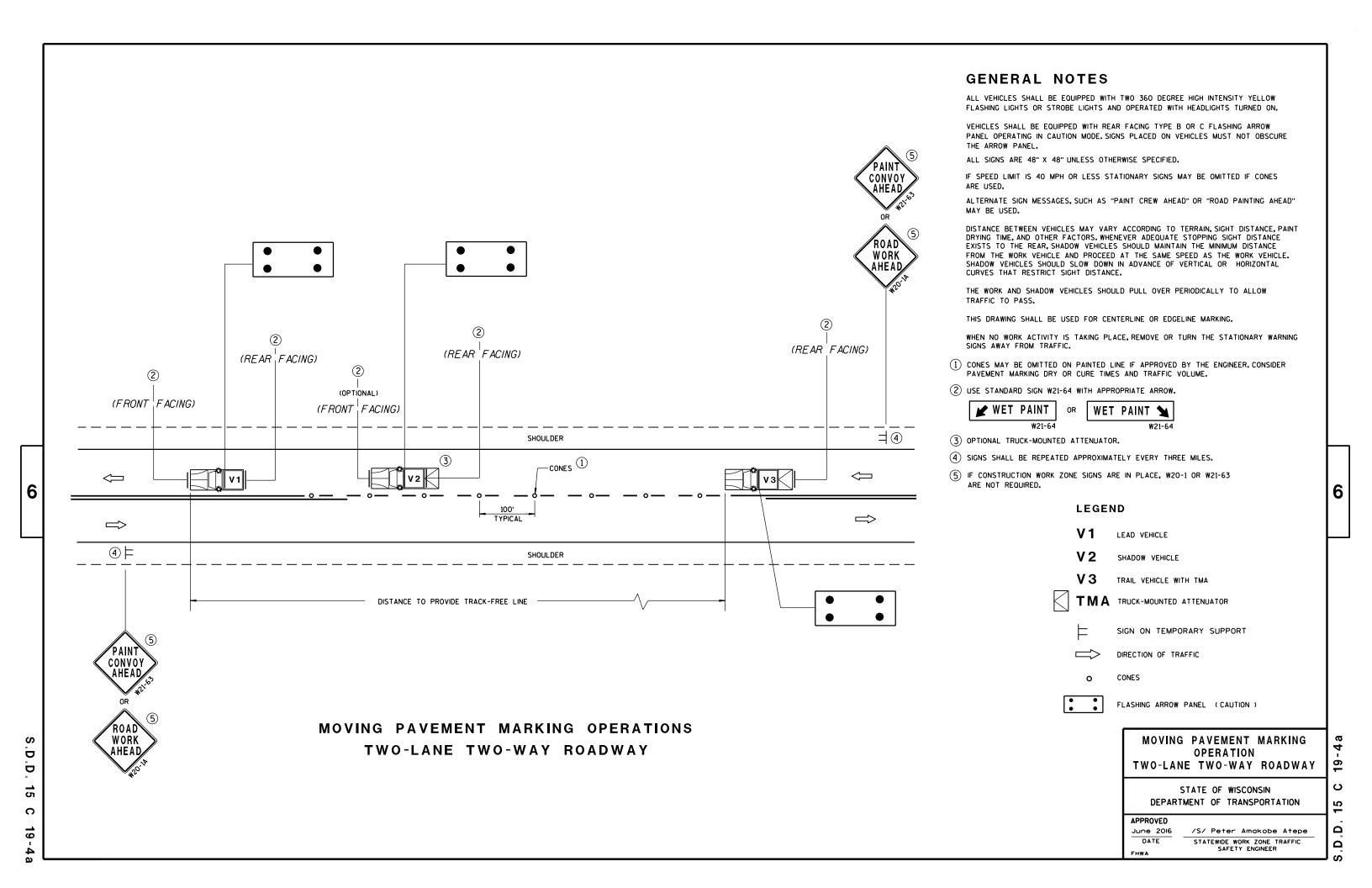
SAFETY ENGINEER

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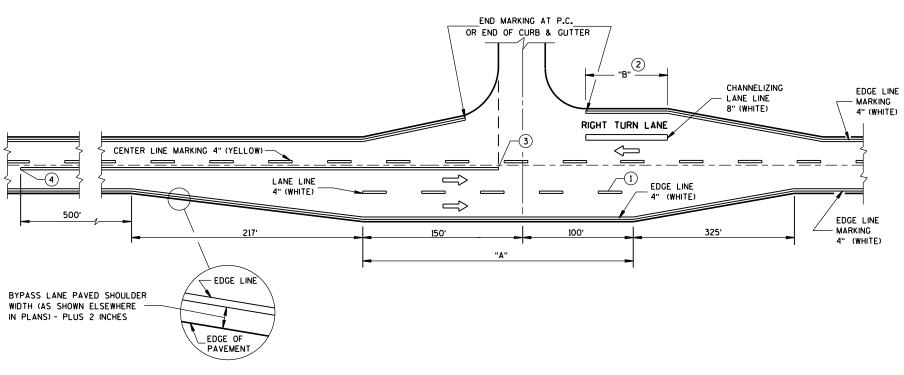
## MINOR INTERSECTION WITHOUT CURBS

#### **GENERAL NOTES**

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

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

ARROW SYMBOL ( >> ) SHOWS DIRECTION OF TRAVEL



#### MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

**PAVEMENT MARKING** (INTERSECTIONS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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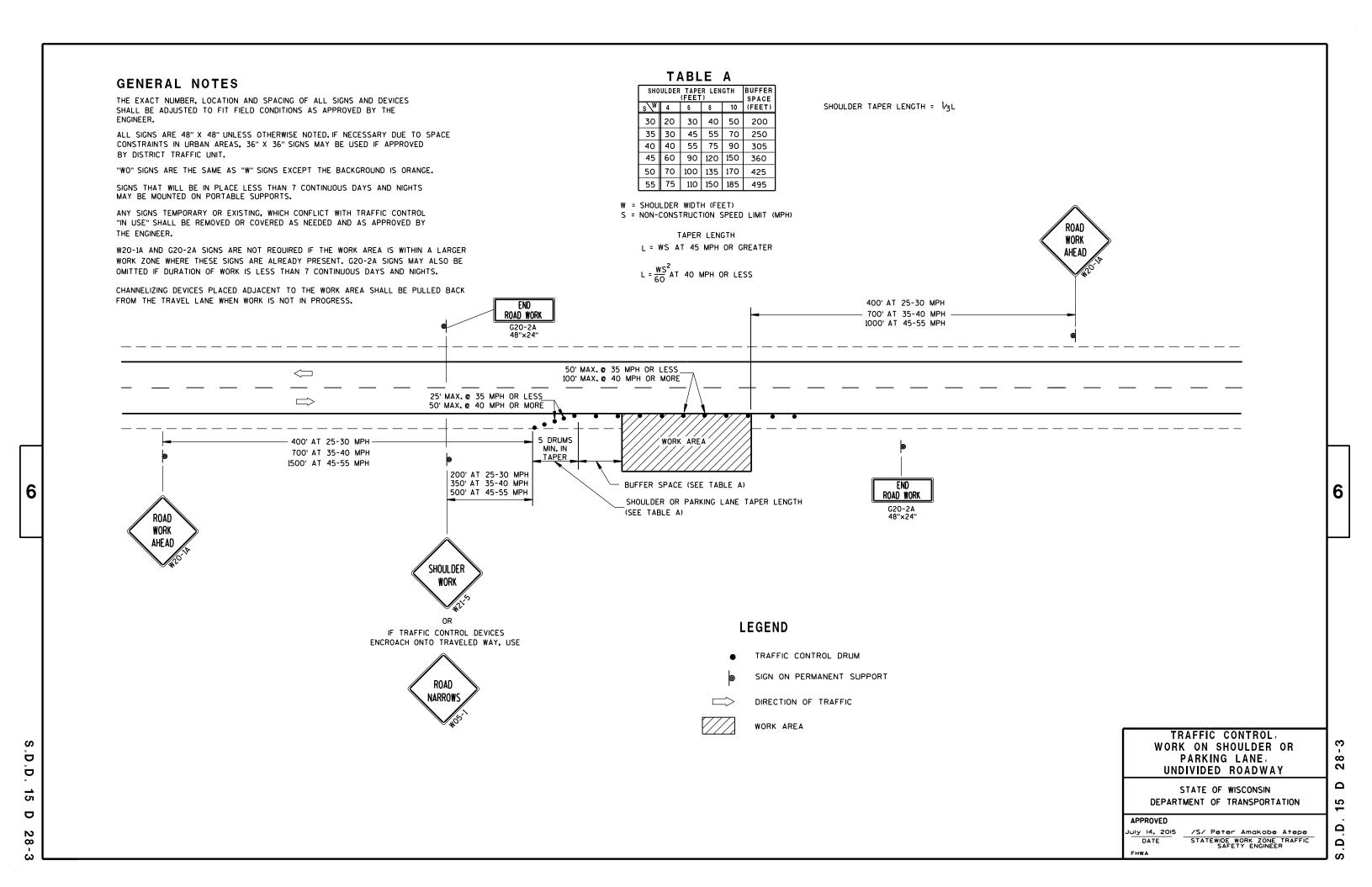
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Notes



# Wisconsin Department of Transportation

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