### JANUARY 2021 ORDER OF SHEETS Section No. Typical Sections and Details (Includes Erosion Control) Estimate of Quantities Ö TOTAL SHEETS = 62 STATE PROJECT NUMBER **BEGIN PROJECT** STA 8+50 Y=423.663.520 X=848,444.307 **DESIGN DESIGNATION** A.A.D.T. (2018) = 320A.A.D.T. D.H.V. = N/A D.D. = 60/40 **DESIGN SPEED** = 55 MPH **ESALS** = 58,400 **CONVENTIONAL SYMBOLS PROFILE** CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT **EXISTING RIGHT OF WAY** GRADE ELEVATION

CULVERT (Profile View)

UTILITIES

SANITARY SEWER

UTILITY PEDESTAL

**TELEPHONE POLE** 

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POWER POLE

STORM SEWER

TELEPHONE.

# STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

PLAN OF PROPOSED IMPROVEMENT

# TOWN OF JAMESTOWN, JIMTOWN ROAD

(KIELER CREEK BRIDGE B-22-0293)

**LOCAL STREET GRANT COUNTY** 

5721-00-75 STRUCTURE B-22-293 STA 9+70.75 - STA 10+23.25 Dickeyville **END PROJECT** STA 11+17 Sinsinawa 61

PREPARED BY IIW, P.C. Designer

ALEIGHA BURG, P.E. Project Manage SW REGION Regional Examiner IAN WINGER

FEDERAL PROJECT

ACCEPTED FOR

TOWN OF JAMESTOWN

ACCEPTED FOR

**GRANT COUNTY** 

HOFRICHTER

E-46240

DUBUQUE,

SSIONAL EN

STATE OF WISCONSIN

**DEPARTMENT OF TRANSPORTATION** 

IIW, P.C.

CONTRACT

PROJECT

STATE PROJECT

5721-00-75

Aleigha Burg, P.E. Digitally signed by Aleigha Burg, P.E. Date: 2020.07.22 09:06:27-05'00' 7/22/2020

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

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88, 2012)

PLOT DATE : 7/8/2020 4:16 PM

TOTAL NET LENGTH OF CENTERLINE = 0.051 MI

PROPOSED OR NEW R/W LINE

SLOPE INTERCEPT

REFERENCE LINE

**EXISTING CULVERT** 

(Box or Pipe)

MARSH AREA

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

#### **GENERAL NOTES**

SEE TITLE SHEET FOR COORDINATE AND ELEVATION REFERENCES.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN

THE CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENTS WITH THE UTILITY.

SCENIC RIVERS ENERGY COOPERATIVE (SERC) HAS A OVERHEAD ELECTRIC LINE WHICH IS LOCATED ALONG THE SOUTH SIDE OF THE JIMTOWN ROAD RIGHT OF WAY FOR THE ENTIRE LENGTH OF THE PROJECT. AN OVERHEAD SUPPORT GUY WIRE ALSO CROSSES JIMTOWN ROAD NEAR STA 11+26. SERC WILL NOT BE ABLE TO DEENERGIZE THEIR LINE DURING CONSTRUCTION. CONTRACTOR CAN CONTACT SREC TO REQUEST THAT THE LINE BE COVERED DURING CONSTRUCTION.

DETAILS OF CONSTRUCTION NOT SHOWN IN THE PLANS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER

ACCESS SHALL BE MAINTAINED TO ALL ADJACENT PROPERTIES.

TREES TO BE REMOVED WITHIN THE PROJECT LIMITS SHALL BE FELLED BY THE CONTRACTOR AND MOVED TO THE EDGE OF THE TEMPORARY LIMITED EASEMENT LIMITS OUTSIDE THE SLOPE LIMITS FOR REMOVAL BY THE ADJACENT PROPERTY OWNERS. NO TREES BEYOND THE SLOPE LIMITS MAY BE REMOVED WITHOUT PRIOR APPROVAL OF THE ENGINEER OR OWNER.

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

ASPHALTIC SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.

THE 4" ASPHALTIC SURFACE ITEMS SHALL BE PLACED WITH A 1  $\frac{3}{4}$ -INCH UPPER LAYER AND A 2  $\frac{1}{4}$ -INCH LOWER LAYER

APPLY TACK COAT BETWEEN LAYERS OF ASPHALTIC SURFACE AT A RATE OF 0.05 GAL/SY.

DISTURBED AREAS WITHIN THE RIGHT OF WAY OUTSIDE OF THE FINISHED SHOULDER POINT OR REVETMENT SHALL BE SEEDED AND STABILIZED WITH EROSION MAT AS DIRECTED BY THE ENGINEER.

THE QUANTITY OF THE ITEMS FOR EROSION PROTECTION INCLUDES AN UNDISTRIBUTED AMOUNT FOR PROTECTION, CONTROL AND ABATEMENT OF WATER POLLUTION RESULTING FROM SOIL EROSION. THE DISTRIBUTION AND LOCATION OF THESE MATERIALS ARE TO BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR SHALL PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKERS IS TO BE WITH THE APPROVAL OF THE ENGINEER.

WETLANDS ARE PRESENT IN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOT OPERATE EQUIPMENT OR STORE MATERIALS BEYOND THE TOE OF SLOPE IN THE WETLAND AREAS INDICATED ON THE JIMTOWN ROAD PLAN AND PROFILE SHEET.

BOTH BARRICADE SIGNS, "ROAD CLOSED AHEAD, LOCAL TRAFFIC ONLY" AND "BRIDGE OUT AHEAD" SHALL BE POSTED ON JIMTOWN ROAD AT THE INTERSECTION WITH USH 151 WHERE VISIBLE TO TRAFFIC IN THE TURN LANGE OF LIGHT 151

#### **DESIGN CONSULTANT**

PROJECT NO:

FILE NAME :

IIW, P.C.

NOAH J. HOFRICHTER, P.E.

PROJECT ENGINEER

4155 PENNSYLVANIA AVENUE

DUBUQUE, IA 52002

563-556-2464

N.HOFRICHTER@IIWENGR.COM

5721-00-75

#### TOWN CONTACT

TOWN OF JAMESTOWN FABER RUNDE TOWN CHAIR BOX 236 KIELER, WI 53812 608-568-7556

#### **COUNTY CONTACT**

HWY: LOCAL STREET

GRANT COUNTY
DAVE LAMBERT, P.E.
HIGHWAY COMMISSIONER
1011 N ADAMS STREET
LANCASTER, WI 53813
608-723-2595
DLAMBERT@CO.GRANT.WI.GOV

#### WISCONSIN DNR LIASON

COUNTY: GRANT

WISCONSIN DEPARTMENT OF NATURAL RESOURCES ANDY BARTA ENVIRONMENTAL ANALYSIS & REVIEW SPECIALIST 101 S. WEBSTER STREET MADISON, WI 53707-7921 608-275-3308 ANDREW.BARTA@WISCONSIN.GOV

#### ABBREVIATIONS

AC	ACRE	HE	HORIZONTAL ELLIPTICAL
AADT	ANNUAL AVERAGE DAILY TRAFFIC	INL	INLET
ASPH	ASPHALTIC	INV	INVERT
AEW	APRON END WALL	LT	LEFT
BEG	BEGINNING	L	LENGTH OF CURVE
BM	BENCHMARK	LF	LINEAR FOOT
BR	BRIDGE	PLE	PERMANENT LIMITED EASEMENT
CL	CENTERLINE	PC	POINT OF CURVATURE
CE	COMMERCIAL ENTRANCE	PCC	POINT OF COMPOUND CURVATURE
CEN	CENTER	PI	POINT OF INTERSECTION
CONC	CONCRETE	PRC	POINT OF REVERSE CURVATURE
CMCP	CORRUGATED METAL CULVERT PIPE	PT	POINT OF TANGENCY
CTH	COUNTY TRUNK HIGHWAY	PE	PRIVATE ENTRANCE
CR	CREEK	R/RAD	RADIUS
CABC	CRUSHED AGGREGATE BASE COURSE	RL	REFERENCE LINE
CY	CUBIC YARD	REQ'D	REQUIRED
CULV	CULVERT	STH	STATE TRUNK HIGHWAY
CPRC	CULVERT PIPE REINFORCE CONCRETE	STA	STATION
D	DEGREE OF CURVE	SF	SQUARE FEET
DHV	DESIGN HOURLY VOLUME	SY	SQYARE YARD
DIA	DIAMETER	SDD	STANDARD DETAIL DRAWINGS
DD	DIRECTIONAL DISTRIBUTION	SE	SUPERELEVATION
DWY	DRIVEWAY	TLE	TEMPORARY LIMITED EASEMENT
ELEC	ELECTRIC	T	TON
EL OR ELV	ELEVATION	VPC	VERTICAL POINT OF CURVE
ESALS	EQUIVALENT SINGLE AXLE LOADS	VPI	VERTICAL POINT OF INTERSECTION
EXIST	EXISTING	VPT	VERTICAL POINT OF TANGENCY
FE	FIELD ENTRANCE	VCL	VERTICAL CURVE LENGTH
FL	FLOW LINE	W	WALL
CWT	HUNDREDWEIGHT		

UTILITIES

ELECTRICAL
SCENIC RIVERS ENERGY COOPERATIVE
CHAD OLMSTEAD
231 NORTH SHERIDAN ST.
LANCASTER, WI 53813
608-723-2121 EXT 561
COLMSTEAD@SREC.NET



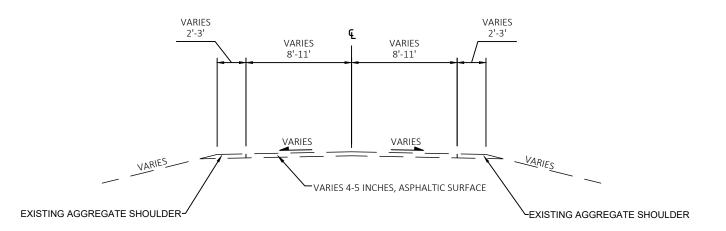
Ε

SHEET

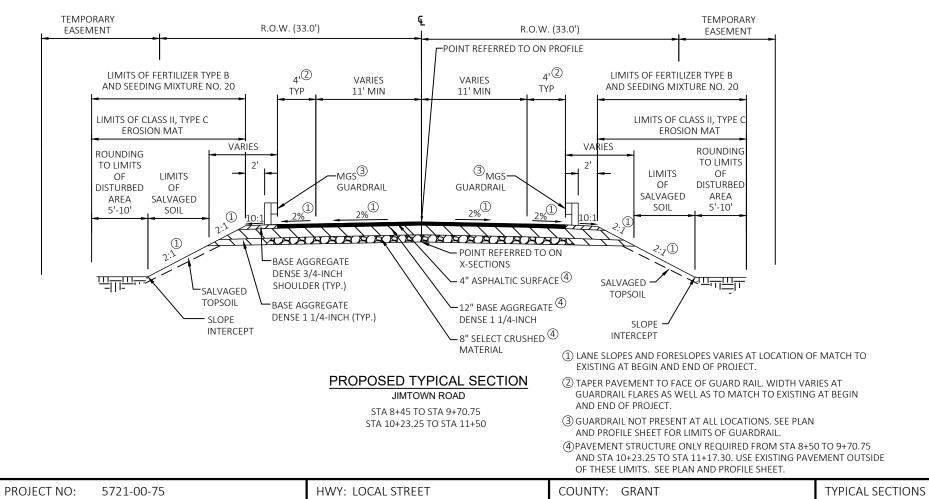
www.DiggersHotline.com

**GENERAL NOTES** 

P\18\207\DrawINGS\57210005\SHEETSPLan\020101-GN.DWG
PLOT DATE: 9/15/2015 4:01 PM
PLOT BY: NOAH HOFRICHTER PLOT NAME: PLOT SCALE: 1 IN:100 FT
LAYOUT NAME - 020101
WISDOT/CADDS SHEET 42



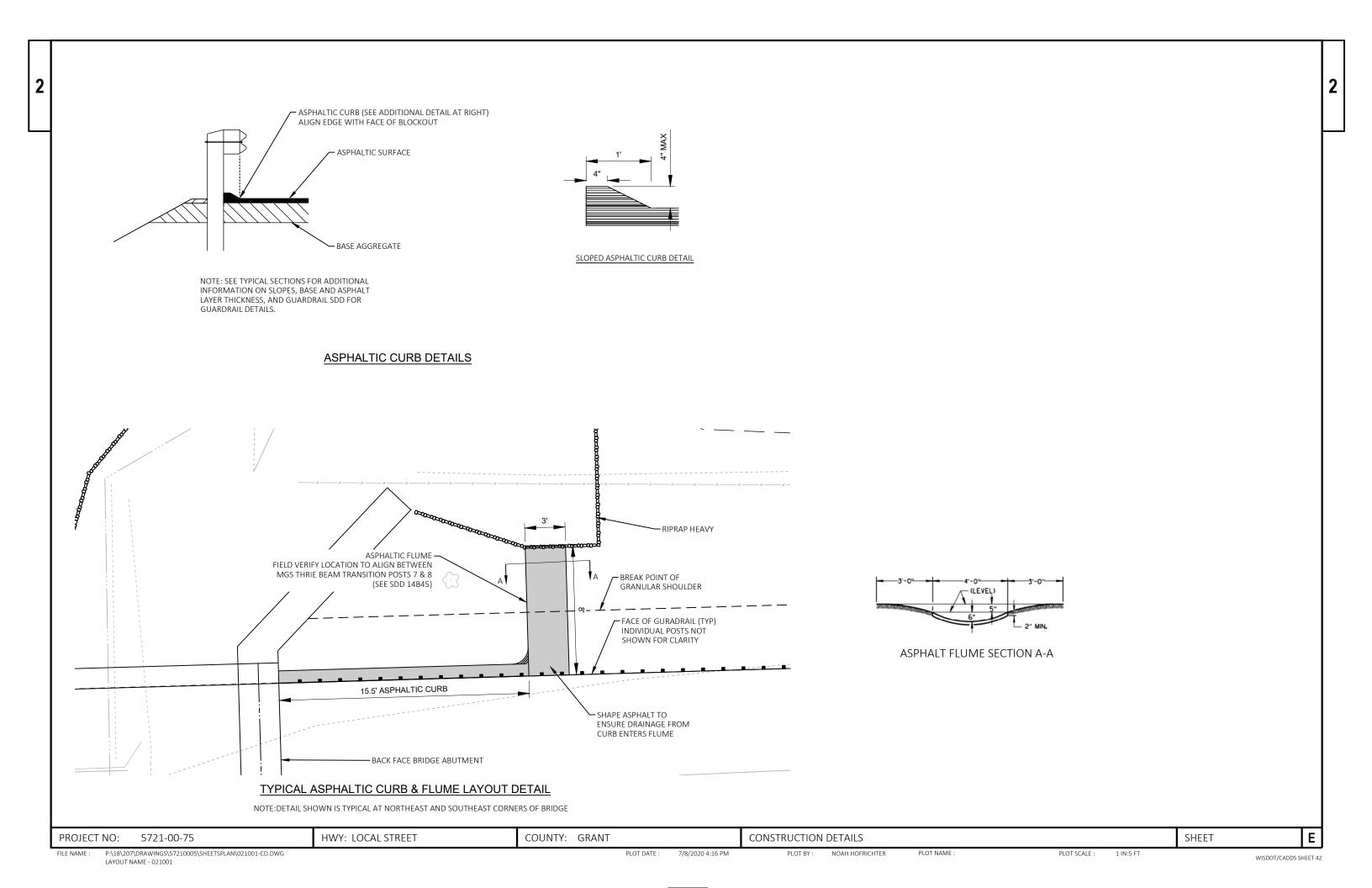
**EXISTING TYPICAL SECTION** STA 8+45 - STA 11+50

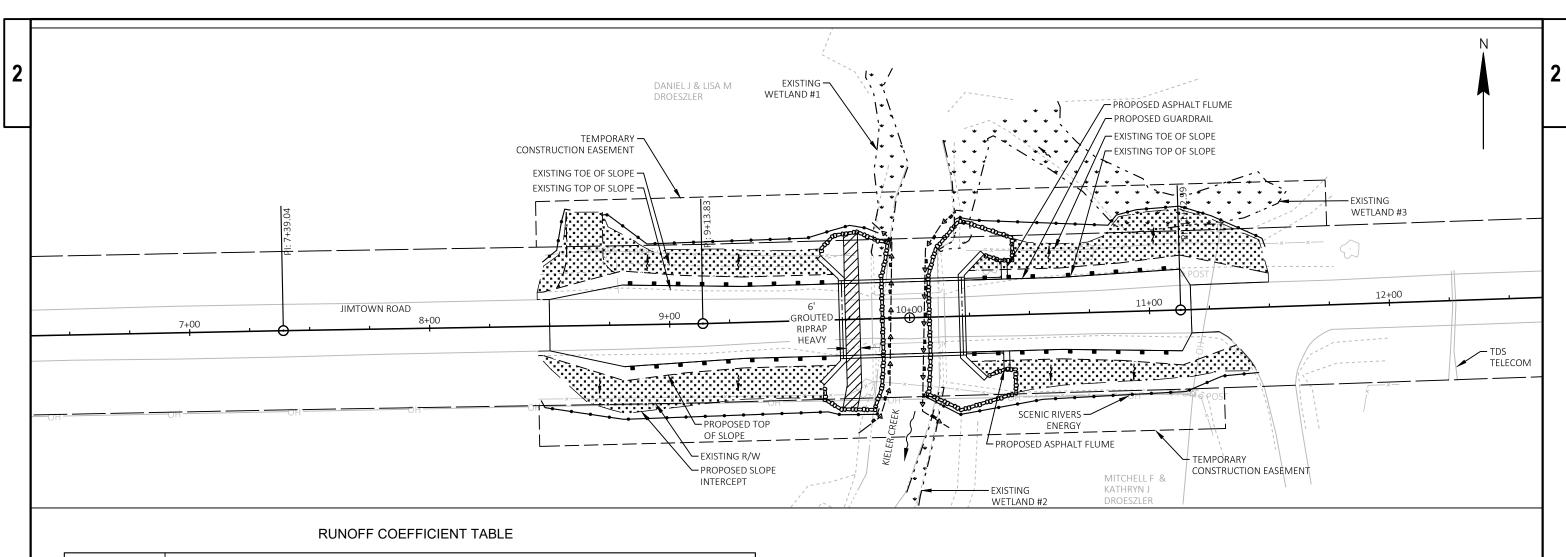


LEGEND ASPHALTIC SURFACE BASE AGGREGATE DENSE ¾" BASE AGGREGATE DENSE 1-1/4" SELECT CRUSHED MATERIAL

P:\18\207\DRAWINGS\57210005\SHEETSPLAN\020301-TS.DWG PLOT BY: NOAH HOFRICHTER FILE NAME : PLOT DATE : PLOT SCALE : 1 IN:10 FT 7/8/2020 4:16 PM WISDOT/CADDS SHEET 42 LAYOUT NAME - 020301-ts 1in-10ft

SHEET





		HYDROLOGIC SOIL GROUP												
		А			В			С			D			
	SLOP	E RANGE	(PERCENT)	S	LOPE RANG	GE (PERCENT)	SL	OPE RANG	GE (PERCENT)	SLOPE RANGE (PERCENT)				
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER		
ROW CROPS	.08	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56		
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23	.30 .37	.20 .27	.25	.30 .40		
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38		
PAVEMENT:	1	ı	•		•	•				•				
ASPHALT						.7095								
CONCRETE						.8095								
BRICK						.7080								
DRIVES, WALKS						.7585								
ROOFS						.7595								
GRAVEL ROADS, SHO	OULDERS					.4060								

TOTAL PROJECT AREA = 0.76 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.5 ACRES

SILT FENCE

RIPRAP HEAVY

SLOPE INTERCEPT

SURFACE WATER FLOW

TURBIDITY BARRIER

LEGEND

EROSION MAT CLASS II TYPE C

PROJECT NO: HWY: LOCAL STREET COUNTY: GRANT

FILE NAME: P\18\\$207\DRAW\ING\$\\$\\$7\\$210005\\$HEETSPLAN\\022001-EC1.DWG

FILE NAME: P\18\\$207\DRAW\ING\$\\$\\$7\\$210005\\$HEETSPLAN\\022001-EC1.DWG

FILE NAME: P\18\\$207\DRAW\ING\$\\$\\$10005\\$HEETSPLAN\\022001-EC1.DWG

E: ######### WISDOT/CADDS SHEET 42

					5721-00-75	
Line	Item	Item Description	Unit	Total	Qty	
		·				
0002	201.0105 201.0205	Clearing	STA	3.000	3.000	
0004		Grubbing  Removing Old Structure Over Wetenway With Minimal	STA	3.000 1.000	3.000	
0006	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 10+00	LS		1.000	
8000	205.0100	Excavation Common	CY	392.000	392.000	
0010	206.1000	Excavation for Structures Bridges (structure) 01. B-22-0293	LS	1.000	1.000	
0012	210.1500	Backfill Structure Type A	TON	760.000	760.000	
0014	213.0100	Finishing Roadway (project) 01. 5721-00-75	EACH	1.000	1.000	
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	80.000	80.000	
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	700.000	700.000	
0020	312.0110	Select Crushed Material	TON	460.000	460.000	
0022	455.0605	Tack Coat	GAL	52.000	52.000	
0024	465.0105	Asphaltic Surface	TON	185.000	185.000	
0026	465.0310	Asphaltic Curb	LF	32.000	32.000	
0028	465.0315	Asphaltic Flumes	SY	6.000	6.000	
0030	502.0100	Concrete Masonry Bridges	CY	267.000	267.000	
0032	502.3200	Protective Surface Treatment	SY	190.000	190.000	
0034	502.3210	Pigmented Surface Sealer	SY	52.000	52.000	
0036	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	40,030.000	40,030.000	
0038	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000	
0040	550.0020	Pre-Boring Rock or Consolidated Materials	LF	105.000	105.000	
0042	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	179.000	179.000	
0044	606.0300	Riprap Heavy	CY	250.000	250.000	
0046	606.0700	Grouted Riprap Heavy	CY	35.000	35.000	
0048	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	130.000	130.000	
0050	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000	
0052	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600	
0054	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000	
0056	619.1000	Mobilization	EACH	1.000	1.000	
0058	624.0100	Water	MGAL	12.000	12.000	
0060	625.0500	Salvaged Topsoil	SY	650.000	650.000	
0062	628.1504	Silt Fence	LF	730.000	730.000	
0064	628.1520	Silt Fence Maintenance	LF	730.000	730.000	
0066	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000	
0068	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0070	628.2027	Erosion Mat Class II Type C	SY	710.000	710.000	
0072	628.6005	Turbidity Barriers	SY	230.000	230.000	
0074	629.0210	Fertilizer Type B	CWT	0.400	0.400	
0076	630.0120	Seeding Mixture No. 20	LB	18.000	18.000	

### Page 2

### **Estimate Of Quantities**

5721	1-00	-75
012	-00	-10

					0721 00 70
Line	Item	Item Description	Unit	Total	Qty
0078	630.0200	Seeding Temporary	LB	18.000	18.000
0800	630.0500	Seed Water	MGAL	15.000	15.000
0082	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0084	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0086	638.2602	Removing Signs Type II	EACH	6.000	6.000
8800	638.3000	Removing Small Sign Supports	EACH	6.000	6.000
0090	642.5001	Field Office Type B	EACH	1.000	1.000
0092	643.0420	Traffic Control Barricades Type III	DAY	1,840.000	1,840.000
0094	643.0705	Traffic Control Warning Lights Type A	DAY	2,944.000	2,944.000
0096	643.0900	Traffic Control Signs	DAY	1,564.000	1,564.000
0098	643.5000	Traffic Control	EACH	1.000	1.000
0100	645.0120	Geotextile Type HR	SY	346.000	346.000
0102	650.4500	Construction Staking Subgrade	LF	220.000	220.000
0104	650.5000	Construction Staking Base	LF	220.000	220.000
0106	650.6500	Construction Staking Structure Layout (structure) 01. B-22-0293	LS	1.000	1.000
0108	650.9910	Construction Staking Supplemental Control (project) 01. 5721-00-75	LS	1.000	1.000
0110	650.9920	Construction Staking Slope Stakes	LF	255.000	255.000
0112	690.0150	Sawing Asphalt	LF	42.000	42.000
0114	715.0502	Incentive Strength Concrete Structures	DOL	1,602.000	1,602.000

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NOTE:					GORY	0010
LINIES	S NC	TED O	THER	N/ISF		

3

																		UNLESS N	IOTED OTHERWISE.	OKT 0010
		CLEARING A	:	201.0105 CLEARING	201.0205 GRUBBING	FROM/TO	O STATION	205.0100 COMMON EXCAVATION	UNEXPANDED FILL	EXPANDED FILL (3)		COMMENT:			BASE AGRE	305.0 BAS AGGRE	SE AGGR GATE DENSE	ASE EGATE E 1 1/4	312.0110 SELECT CRUSHE	
STATION		STATION		STA	STA			C.+ (2)	F:(I	Factor			CATEGORY	STATION	I – STATIO	DENSE 3/ N TON		CH DN	MATERIAL TON	WATER MGAL
8+45		11+50		3	3			Cut (2)	Fill	Factor 1.30			0010	8+50	9+71	.,			173	IVIGAL
							.75 - MAINLINE 1+50 - MAINLINE	214 178	194 162	253 211	-39 -33	SEE NOTE (1) BELOW	0010		11+50				172	
TOTALS				3	3	10.23,23.10.1	TOTALS	392	356	464	-72		<b>F</b>	UNDISTRIB			_			7
														TEGORY 001		610	3 8	75	352	7
								vailable from Excav					0030		9+21		10		72	
								category. See the E ent Material is inclu		y Sheet for deta	iiled additional in	formation.	0030		11+17			55	43	
							Fill = Unexpande		idea in Cut.				•	UNDISTRIB						5
								Quantity calculated t			ates an excess o	of material		TEGORY 003		0	1	70	115	5
						within the ca	tegory. Minus ind	dicates a shortage o	or material within th	e category										
				ACDUALT ITEMS									PROJECT	TOTALS		610	) 10	45	467	12
				ASPHALT ITEMS	465.0105	465.0310	465.0315													
				455.0605	ASPHALTIC	ASPHALTIC	ASPHALTIC													
CATECORY	STATION	CTATION		TACK COAT GAL	SURFACE TON	CURB LF	FLUMES SY													
	STATION – 8+45		LT/DT													EROSION	CONTROL			
0010	8+45 10+23	9+71 10+39	LT/RT	18	64	-	-													
	10+23	10+39	LT RT	-	=	16	-										628.1520	6		628.2027 ROSION MAT
0010 0010	10+23		LT/RT	16	- 61	16	-									628.1504	SILT FENCE		URBIDITY	CLASS II
	10+40	11150	LT/KI	-	- 01	-	3									SILT FENCE	MAINTENANCE		BARRIER	TYPE C
	10+40		RT	<u>-</u>		-	3 3					STA			LOCATION	LF	LF		SY	SY
TOTAL CATE			IXI	34	125	32	6						+45	8+58	LT	-	-		-	15
0030	8+45	9+21		11	38	-	-						+73	9+69	LT	-	-		-	117
	10+73	11+17		7	22	-	-						+45	9+69	RT	-	-		-	167
TOTAL CATE				18	60	0	0						+46	9+89	RT	152	152		-	-
						<del>-</del>						-	+47	8+60	LT	28	28		-	-
PROJECT TO	ΓALS			52	185	32	6						+72	9+93	LT DT/LT	131	131		- 115	-
						-	•						+90		RT/LT	-	-		115	-
			GUAF	<u>RDRAIL</u>									+06	11.45	RT/LT RT	- 1 / E	- 1 / E		115	-
					614.2500	614.2610 MGS								11+45		145	145		-	-
					MGS	GUARDRAIL		EROSIC	N CONTROL MOBI	<u>ILIZATIONS</u>		10-		10+43	RT/LT	-	-		-	
					HRIE BEAM RANSITION	TERMINAL EAT					628.1910	10-		11+49	LT 	151	151		-	
GROUP	STATION	I TO STATION		LOCATION	LF	EACH			628.1905	M	BILIZATIONS	10-		11+44	RT	-	-		-	107
								M	OBILIZATIONS ERO CONTROL		GENCY EROSION CONTROL	10-	+25	11+50	LT	-	-		-	184
	8+81		9+72	RT	39.4	1	LOC	CATION	EACH		EACH	11-	+50		RT/LT	-	-		-	-
	8+81		9+72	LT	39.4	1	EROSION CON	NTROL ITEMS	4		2									
	10+22	1	.1+13	RT	39.4	1		TOTALS	4		2			U	NDISTRIBUTED .	123	123			120
	10+22	1	1+13	LT	39.4	1														
												PROJECT	ΓTOTALS			730	730		230	710
		TOTALS			157.6	4														
PROJECT NO	D: 5721	00-75			HWY: LOCA	STREET		COUNTY: GI	RANT		MISCELLA	ANEOUS QUA	NTITIES						SHEET	T
								1											1	

NOTE: BID ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

																	UNLESS NOTED	OTHERWISE.	
			FINISHIN	NG ITEMS									PERM	ANENT SIGN	<u>ING</u>				
	STATION		625.0500 SALVAGED TOPSOIL SY	629.0210 FERTILIZE TYPE B CWT	MIXTURE NO LB	G S⊞E O. 20 TEMPO L	DING SEED DRARY WATER B MGAL			SIGN	W	V X H	634.061 POSTS WOOD 4X6-INCH 12-FT	63 X	37.2230 SIGNS TYPE II LECTIVE F	638.2602 REMOVING SIGNS TYPE II			
8+45	9+69	LT	134	0.08	3.6		.6 -	STATION	SIDE	CODE		V X IN	EACH	KEF	SF	EACH	EACH		REMARKS
8+45	9+69	RT	164	0.10	4.4	4.		9+71	R⊤							1	1		IMIT POSTING
10+25	11+50	LT	184	0.12	5.0		.0 -	9+71		WR-52R		"X36"	1		3			OBJECT M	
10+25	11+44	RT	107	0.07	2.9		.9 -	9+71		W5-52L		"X36"	1		3			OBJECT M	
	DISTRIBUTED		61	0.04	1.6	1.		9+85	R⊤							1	1		OBJECT MARKER
Т	TOTALS		650	0.4	18	1	8 15	9+85	LT							1	1		OBJECT MARKER
								10+15	RT							1	1		OBJECT MARKER  OBJECT MARKER
									LT							1	1		
								10+15		 W/D E 2 D	1.2	 !!\/ 2 C!!							OBJECT MARKER
								10+23		WR-52R		"X36"	1		3			OBJECT M	
								10+23		W5-52L		"X36"	1		3		<del></del>	OBJECT M	
								10+25	LT							1	1	WEIGHTL	IMIT POSTING
											PROJEC	CT TOTALS	4		12	6	6		
								т	RAFFIC CONT	TROLITEN	.115								
								'	KAITIC CON		543.0420		643.0705		643.090	0			
									TRAFFI		TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC					
									CONTRO		CONTROL	CONTROL	CONTROL						
									BARRICAL		ARRICADES	WARNING	WARNING	SIGNS	SIGNS				
									TYPE II	I	TYPE III	LIGHTS TYPE A	LIGHTS TYPE A						
								DAYS	EACH		DAYS	EACH	DAYS	EACH	DAYS				
					11011.1 5	_ / JIMTOWN ROAI	DINTERCECTION												
						•	DINTERSECTION	92	2		184	4	368	3	276				
						NG OF PROJECT		92	7		644	10	920	4	368				
					END OF F			92	7		644	10	920	4	368				
							VALLEY ROAD INTERSECTION	92	2		184	4	368	3	276	<u> </u>			
					JIMTOW	N ROAD / LOUISB	URG ROAD INTERSECTION	92	2		184	4	368	3	276				
							ТОТ	ALS			1840		2944		1564				
					<u>co</u>	NSTRUCTION ST	<u>AKING</u>									SAW	VING		690.0150 SAWING
						0.5000	650.6500	650.991		650.99									ASPHALT
	CT. T. C		**************************************		GRADE LF	BASE LF	STRUCTURE LAYOUT S	SUPPLEMENTAL ( LS	CONTROL	SLOPE ST				STATION S	TATION	LOCATION	DESCRIPTIO	N	LF
_				DCATION	Ц	LF	LJ	L						8+50		RT/LT	BEGINNING OF P	ROJECT	22
	8+45			AINLINE	106	125				255	)			11+17		RT/LT	END OF PROJI	ECT	20
	8+45					126							_						
	10+23			AINLINE	94	94	1											TOTAL	42
	-		- MA	AINLINE			1	1											
_	PROJE	ECT TOTAL			220	220	1	1		255	5								
PROJECT NO:	5721-00-7	5		HWY: LC	CAL STREET		COUNTY: GRANT	Γ		MIS	CELLANEOU	JS QUANTITII	ES					SHEET	E

FILE NAME : P:\18\207\DRAWINGS\\57210005\SHEETSPLAN\\030201\_MQ.DWG LAYOUT NAME - MISC QUANTITIES 2

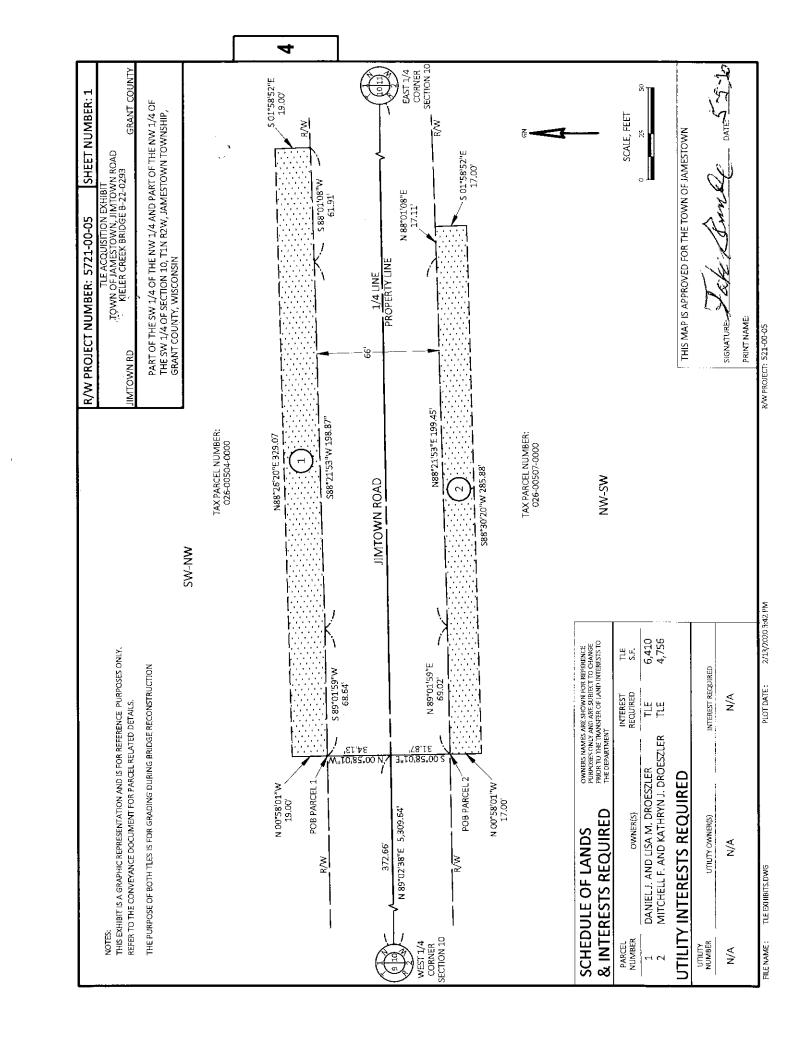
PLOT DATE : 7/9/2020 5:23 PM

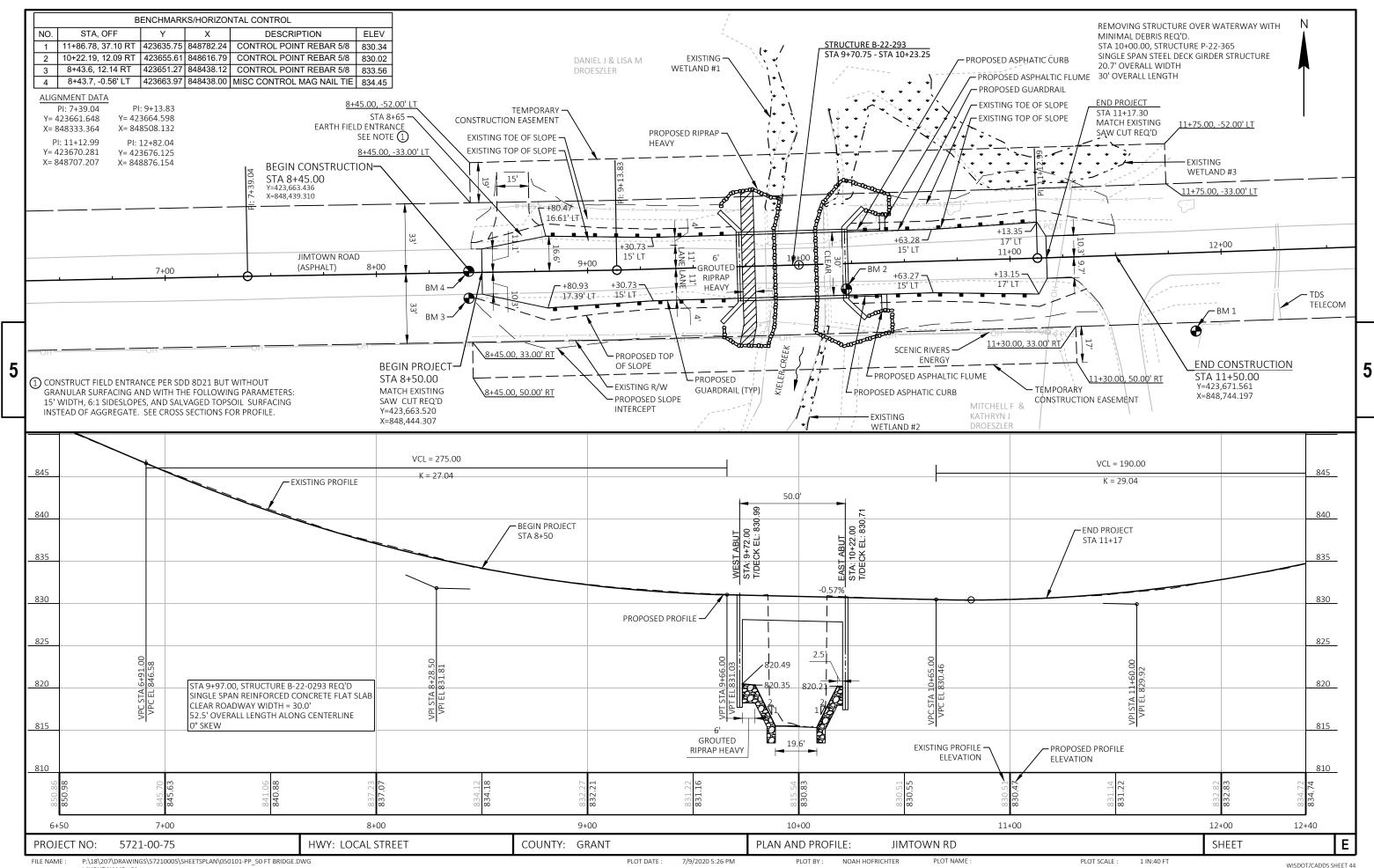
PLOT BY: NOAH HOFRICHTER

PLOT NAME :

PLOT SCALE : 1" = 1'

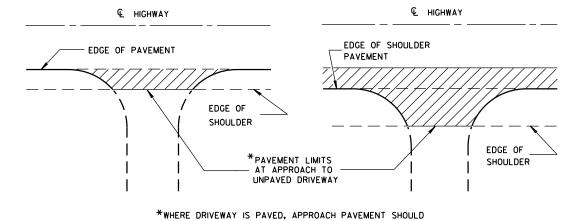
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## Standard Detail Drawing List

DRI VEWAYS WI THOUT CURB & GUTTER SILT FENCE TURBI DI TY BARRI ER
NAME PLATE (STRUCTURES)
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
BARRICADES AND SIGNS FOR MAINLINE CLOSURES
BARRICADES AND SIGNS FOR VARIOUS CLOSURES
SIGNING & MARKING FOR TWO LANE BRIDGES
CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
ATTACHMENT OF SIGNS TO POSTS



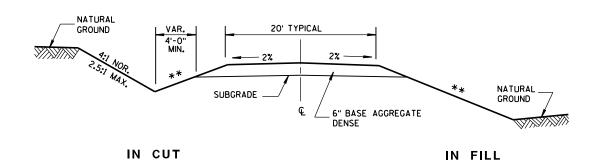
BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

### RURAL DRIVEWAY INTERSECTION DETAIL

(NO CURB & GUTTER OR SIDEWALK)

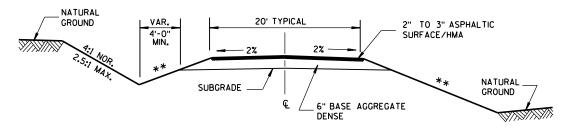


\*\* SLOPE CAN VARY WITH SPEED. SEE 11-45-2.6.2.

POSTED MAX. SLOPE MPH 4:1

235 TO <60 6:1

260 10:1

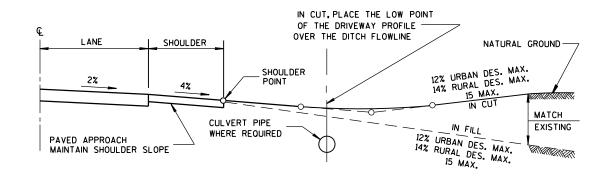


IN CUT

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# TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

# TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE



TYPICAL DRIVEWAY PROFILES

# DRIVEWAYS WITHOUT CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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APPROVED

December, 2016 /S/ Rodney Taylor

DATE ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

.D. 8 D 21-1

D

## 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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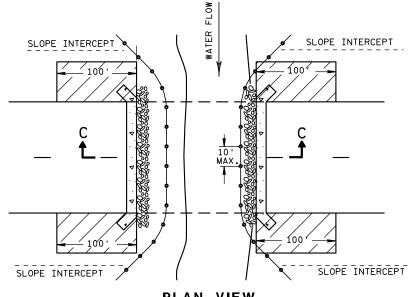
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#### **GENERAL NOTES**

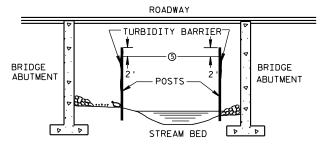
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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



**PLAN VIEW** 



SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

#### TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

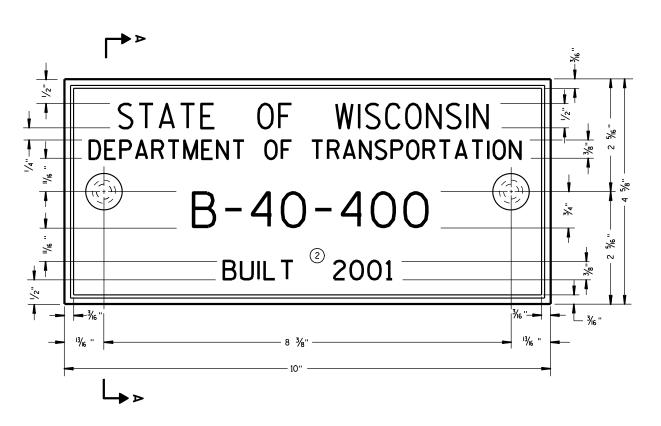
APPROVED

6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

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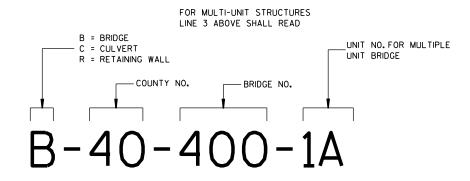
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#### TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



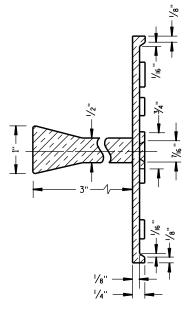
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

#### **GENERAL NOTES**

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

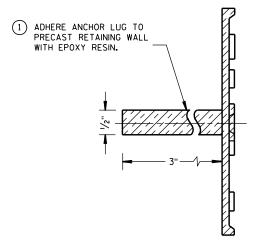
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

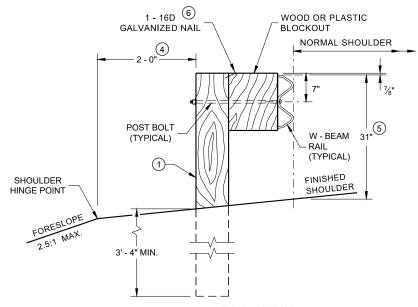
# NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

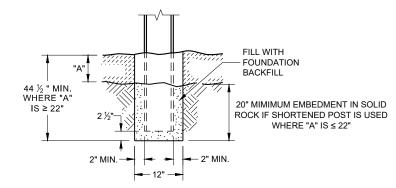
APPROVED

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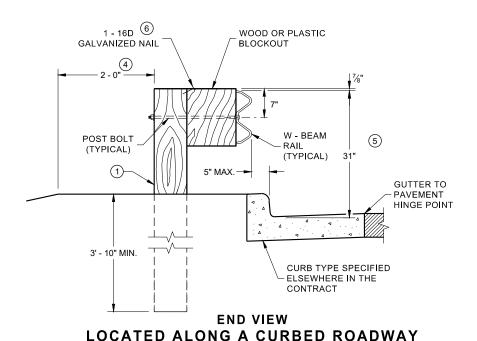
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- $\ \, \ \,$  IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" 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
- 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).
- $_{\mbox{\scriptsize (5)}}$  FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS +1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27  $^3\!4''$  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.

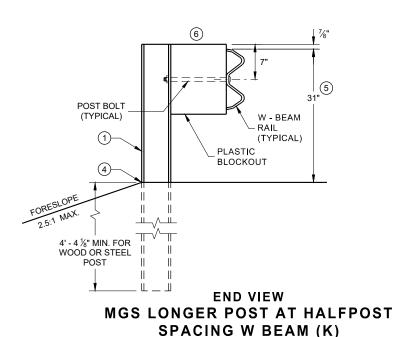


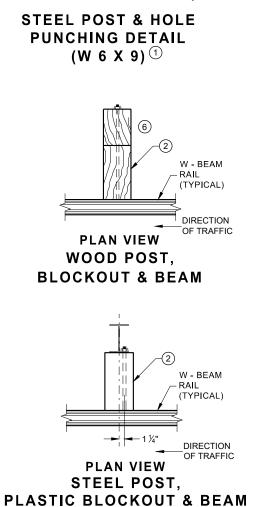
**END VIEW** LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION

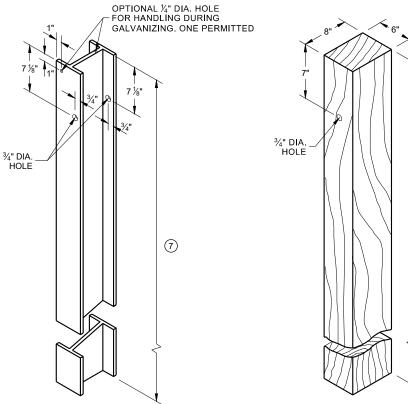


**END VIEW** SETTING STEEL OR WOOD POST IN ROCK

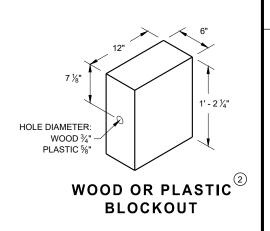








WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION SD

### **FRONT VIEW** HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

6' 3" C - C

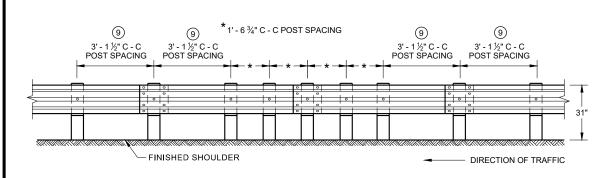
POST SPACING

DIRECTION OF TRAFFIC

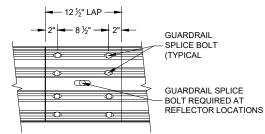
6' - 3" C -C

POST SPACING

FINISHED SHOULDER

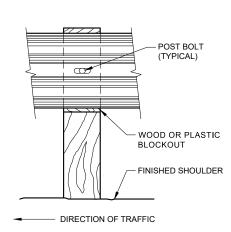


FRONT VIEW **QUARTER POST SPACING (QS)** 



**FRONT VIEW MID-SPAN BEAM SPLICE** 

FRONT VIEW AT STEEL POST



**GENERAL NOTES** 

OF QUARTER POST SPACING.

RECESSED (DR) HEAVY HEX NUT.

OF THE ENERGY ABSORBING TERMINAL.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END

(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS

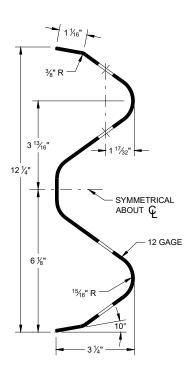
POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT

GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE

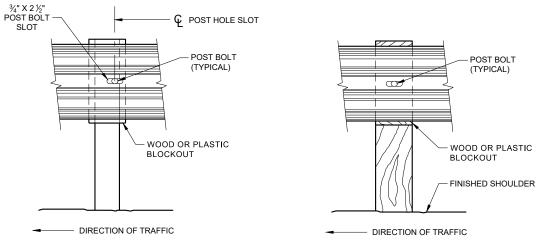
REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %"

DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

FRONT VIEW AT WOOD POST



**SECTION THRU W-BEAM RAIL** 



4" X 12" DELINEATOR REFLECTOR (REFER TO SDD 15A4 FOR DELINEATOR SPACING) WOOD OR PLASTIC BLOCKOUT MOUNT WITH TWO 3/16" X 2 1/2" TRIPLE COATED SCREWS WITH WASHERS WOOD OR STEEL POST - DIRECTION OF TRAFFIC

**ONE SIDED REFLECTOR DETAIL** AND TYPICAL INSTALLATION

**MIDWEST GUARDRAIL SYSTEM** (MGS) GUARDRAIL

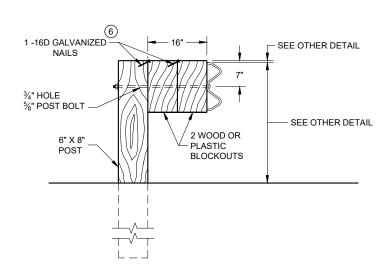
> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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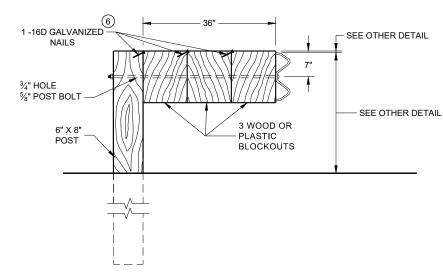
SDD

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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.



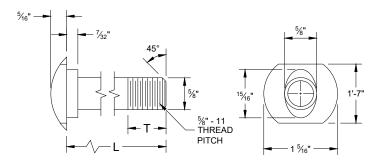
#### **DETAIL FOR 36" BLOCKOUT DEPTH**

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.

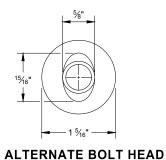
#### NOTE:

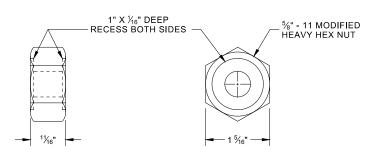
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF  $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN  $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



#### **POST BOLT TABLE**

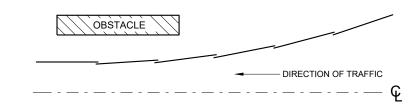
L	T (MIN.)
1 1⁄4"	1 1/4"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



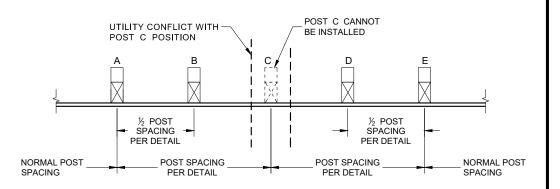


# POST BOLT, SPLICE BOLT AND RECESS NUT

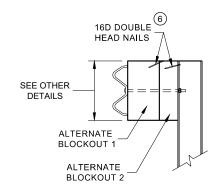
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

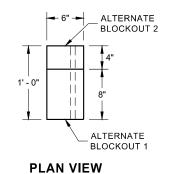


# PLAN VIEW BEAM LAPPING DETAIL



# POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

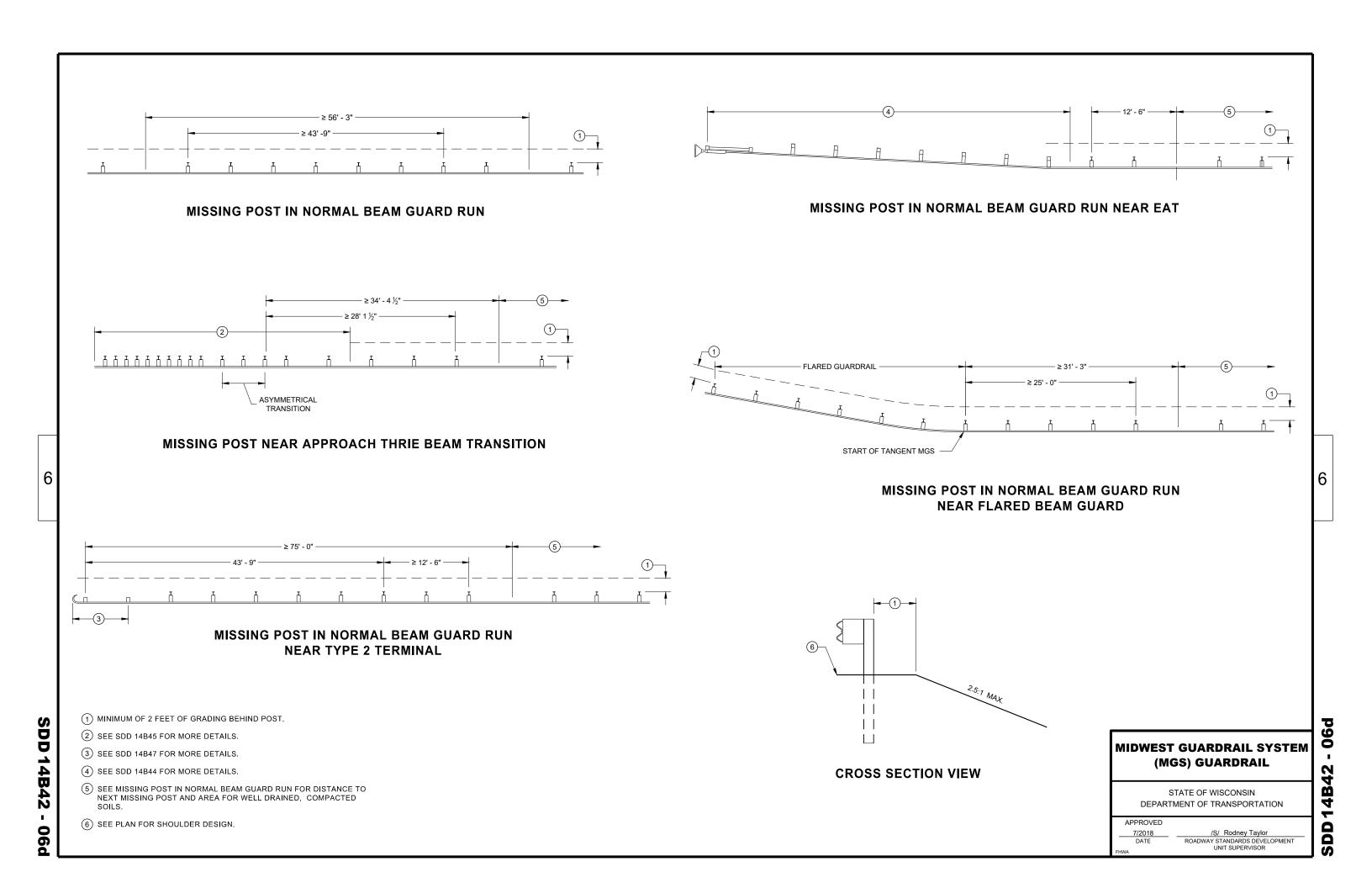
ALTERNATE WOOD BLOCKOUT DETAIL

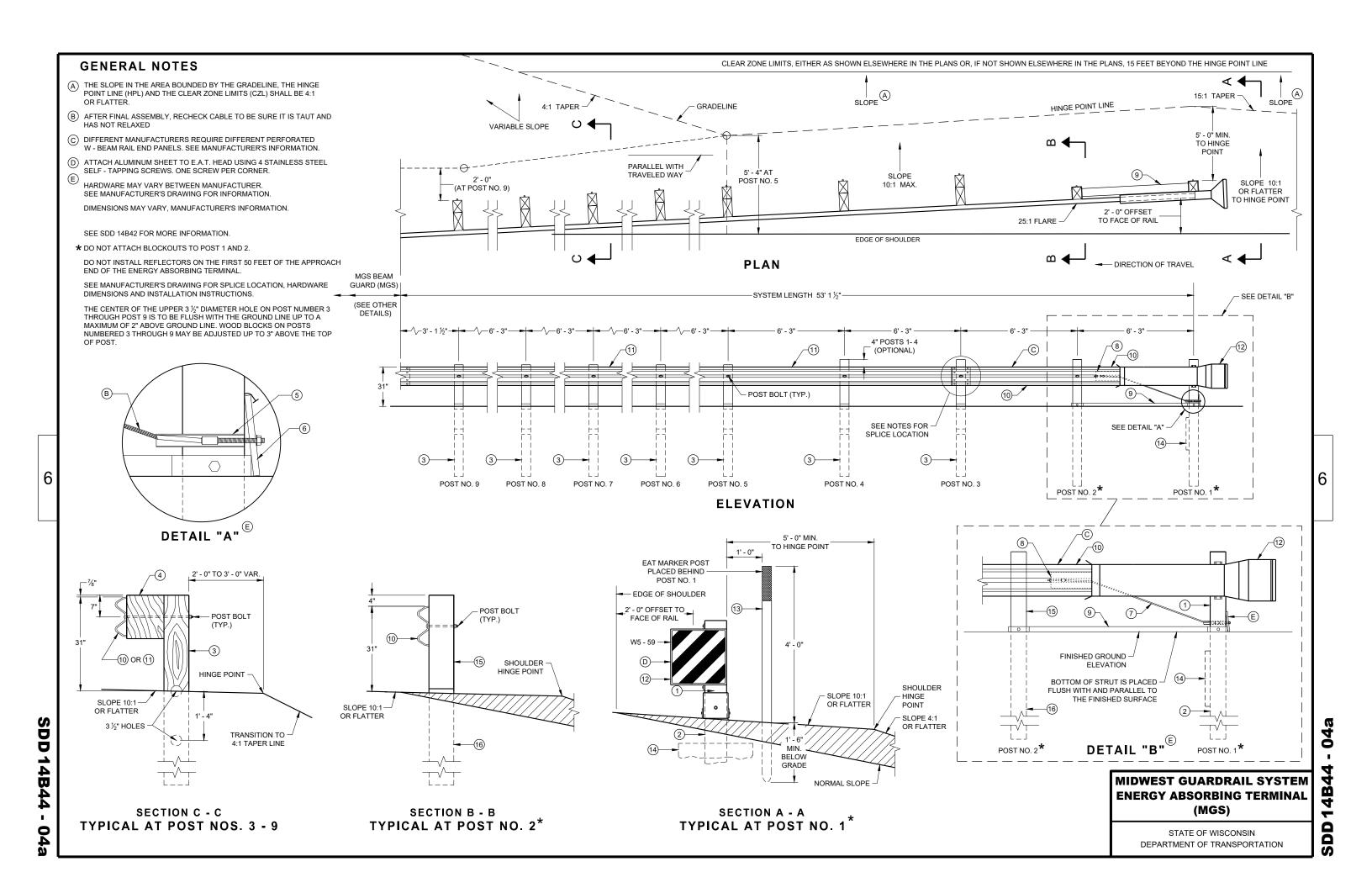
# MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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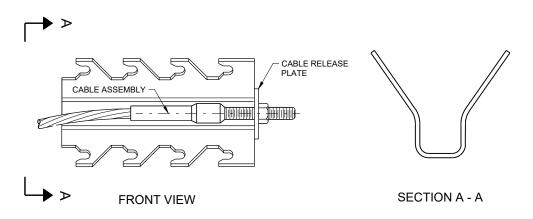
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

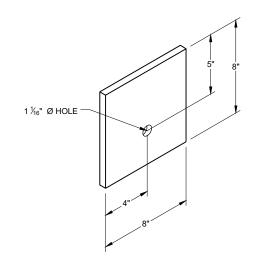




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX <sup>(9) (E)</sup>



BEARING PLATE

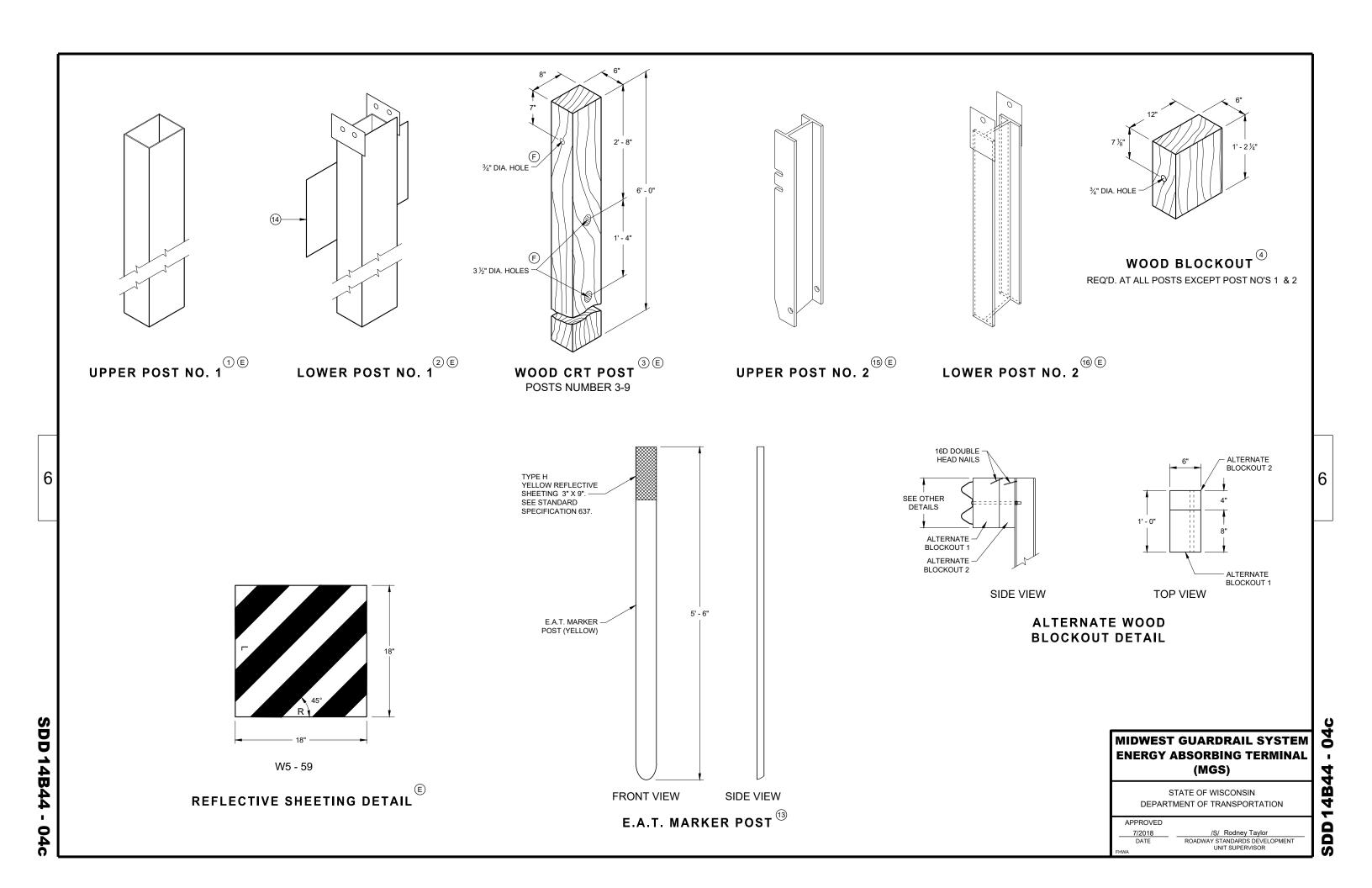
#### MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

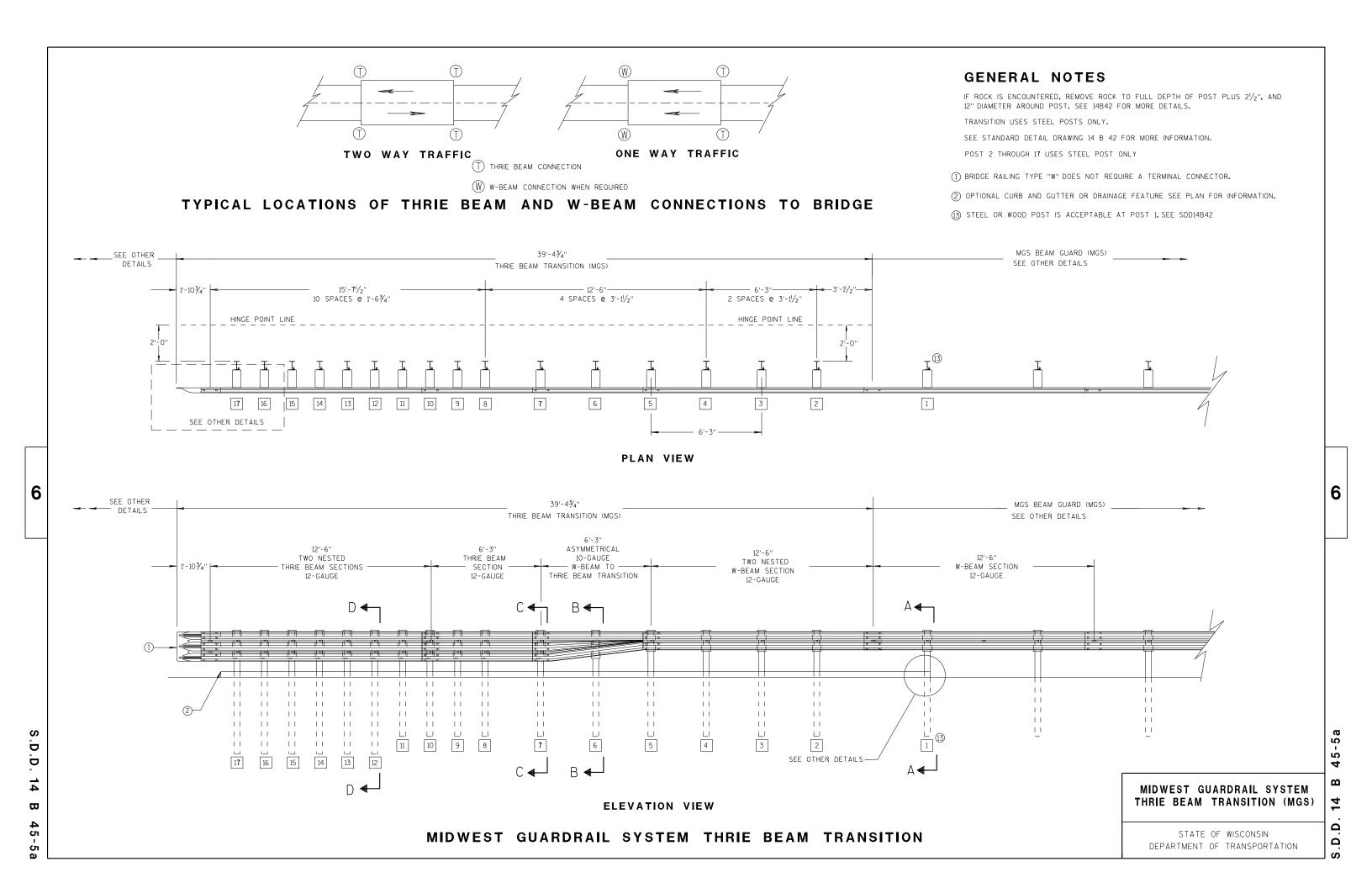
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

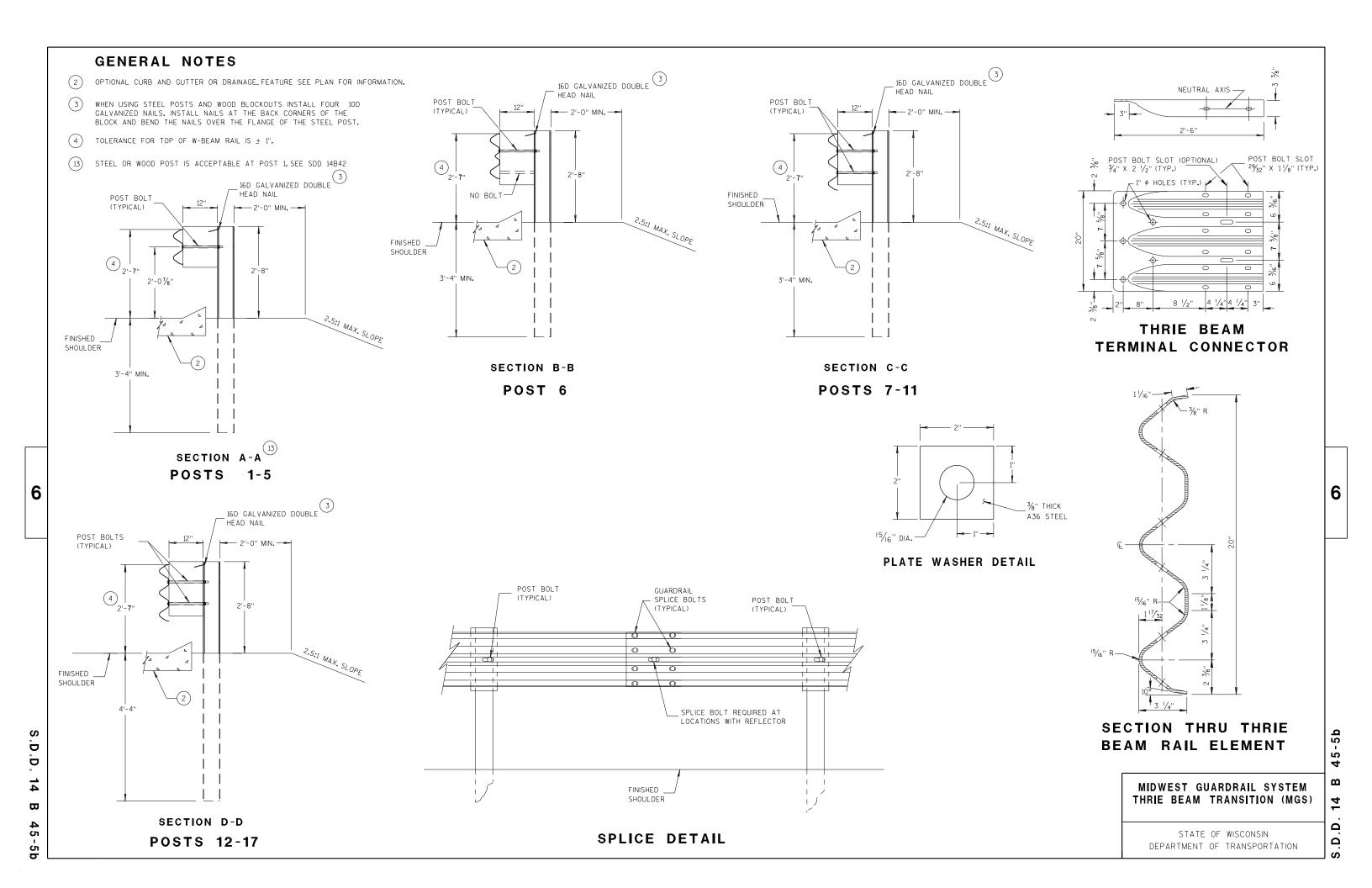
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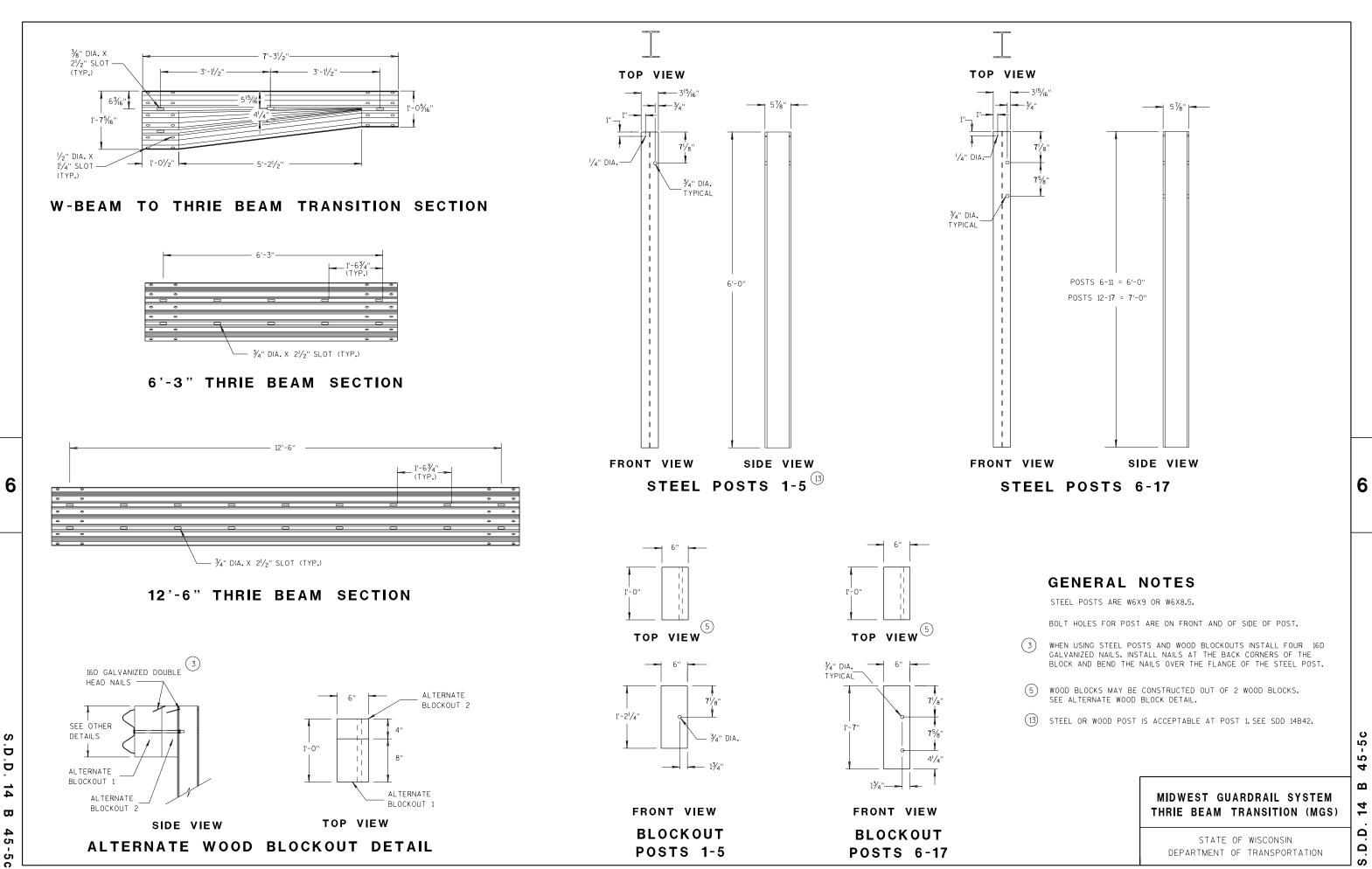
**SDD 14B44** 

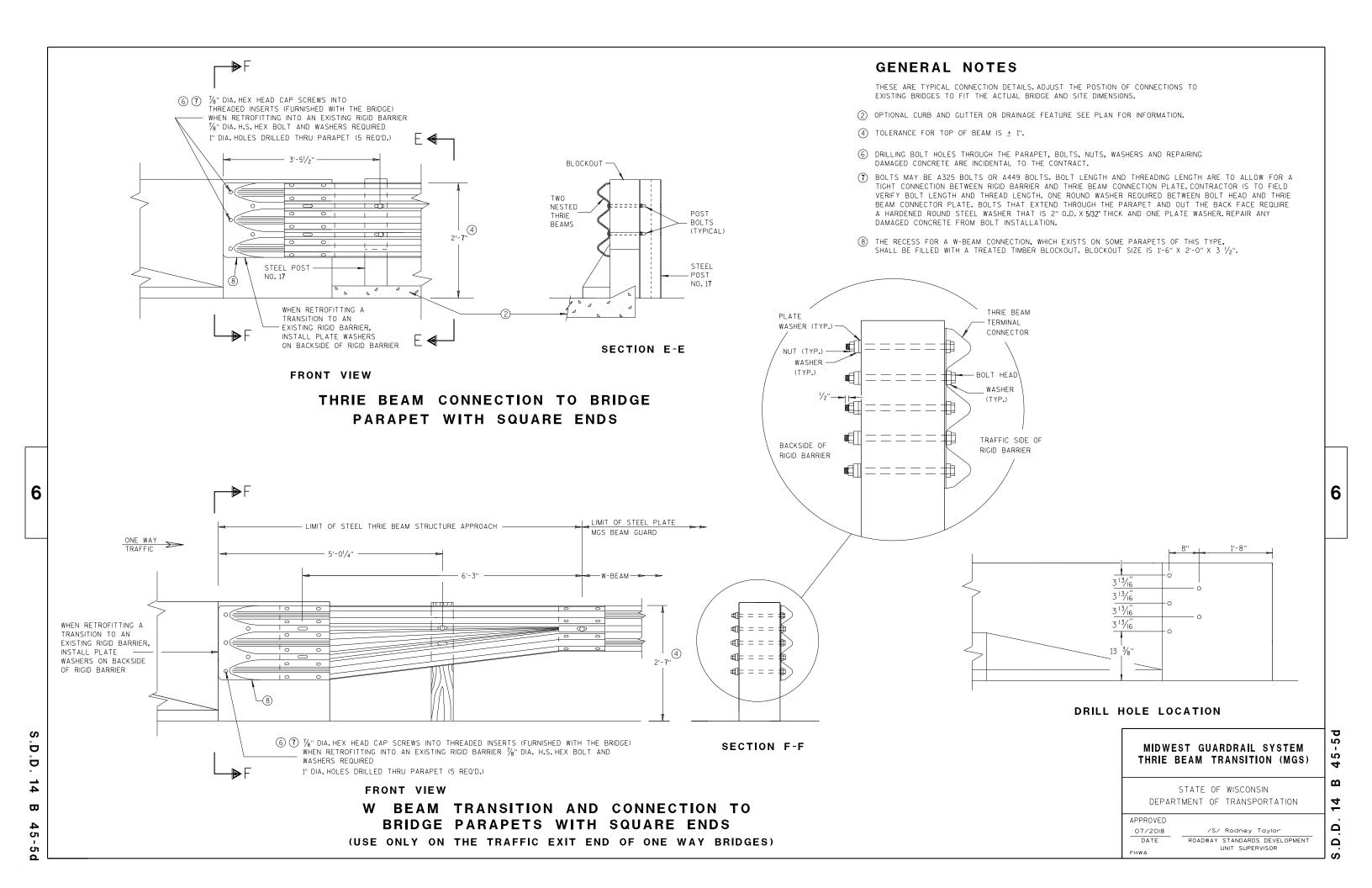
SDD 14B44 - 04

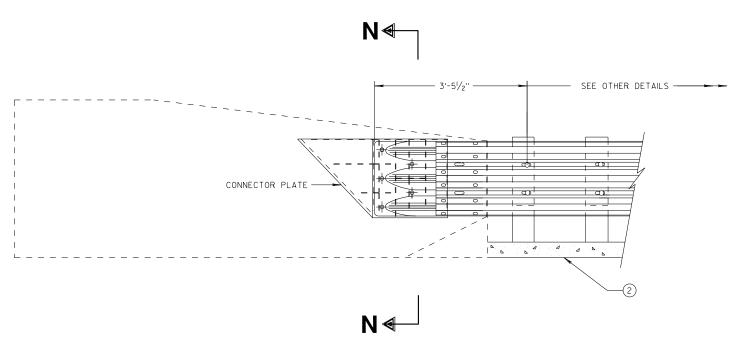




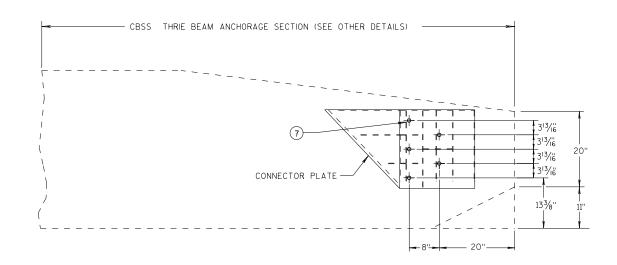








#### THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

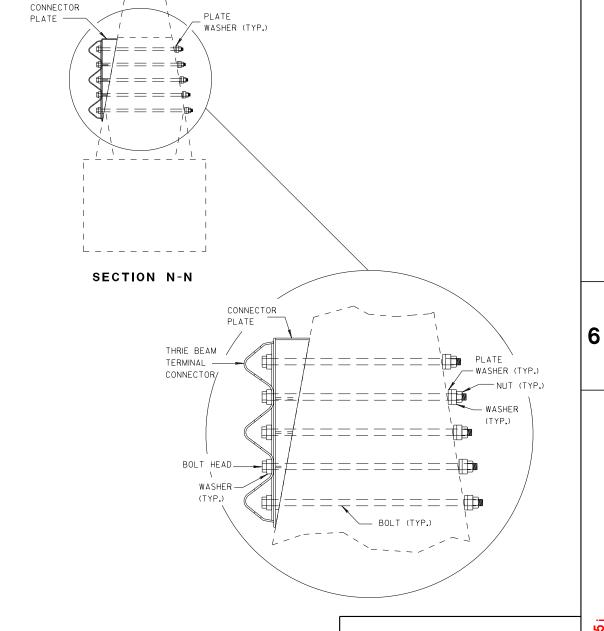


SINGLE SLOPE CONNECTION PLATE PLACEMENT

#### **GENERAL NOTES**

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

- 2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- ONNECTION BETWEEN RIGID BARRIER AND THREAD 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 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



# MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

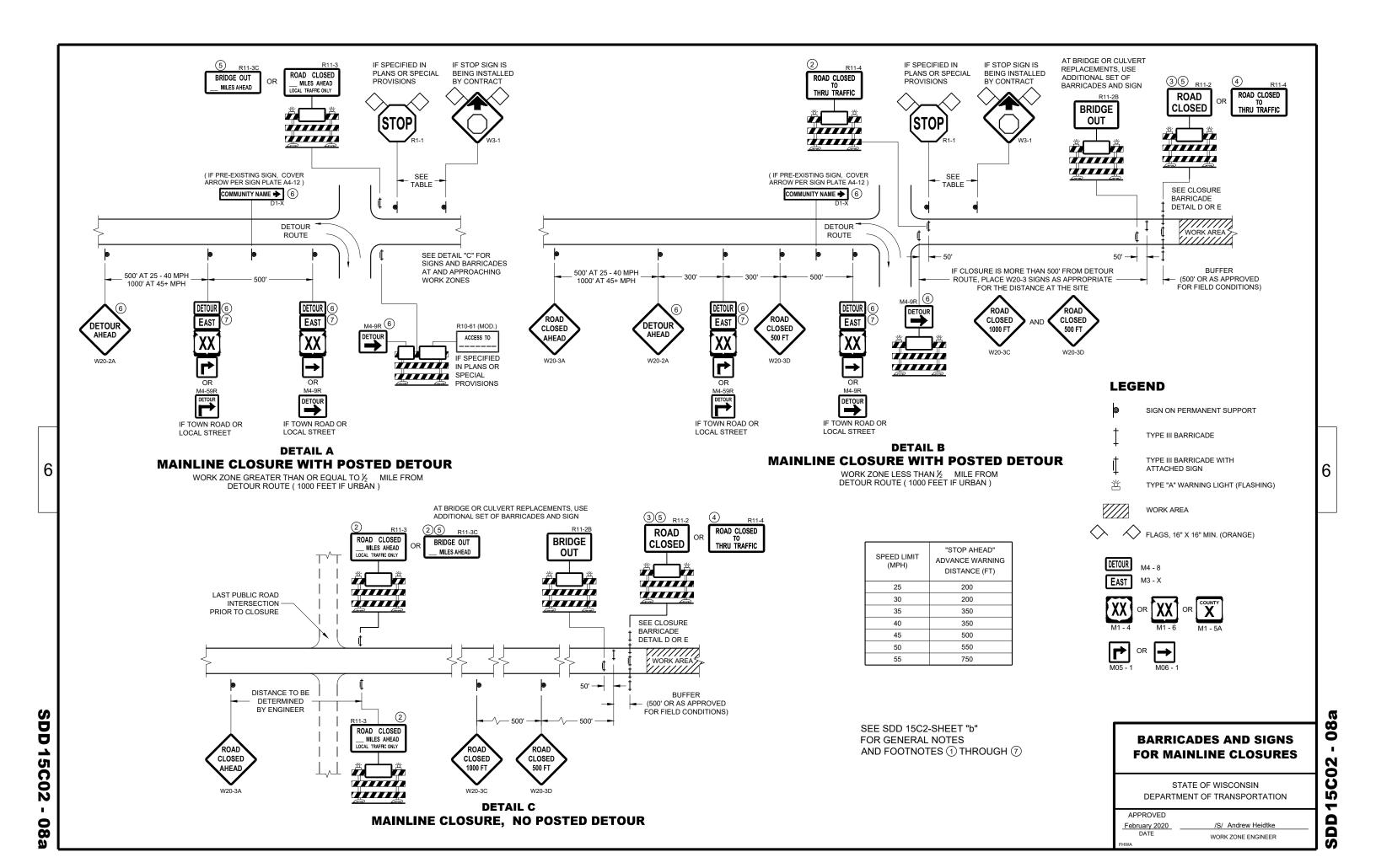
7/2018

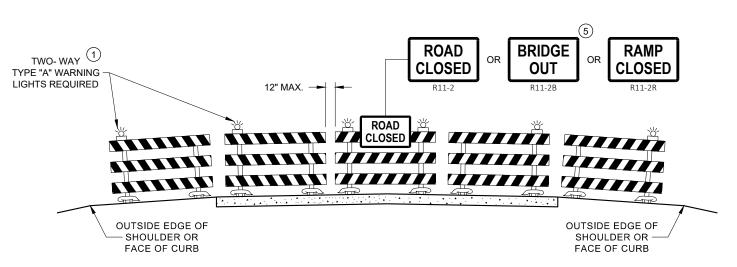
DATE

ROADW

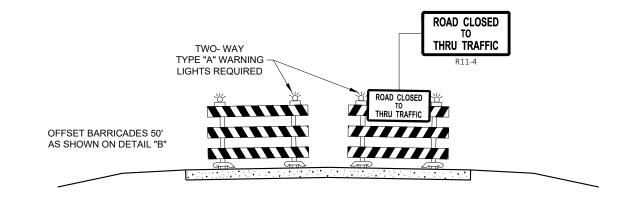
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

OPMENT O





# DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



# DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

#### **GENERAL NOTES**

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

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

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)

D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 2 AND R11 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

#### BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

DD 15C02 - 0



SDD

**FLEXIBLE TUBULAR** 

**MARKER POST** 

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

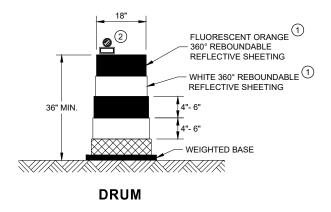
/S/ Andrew Heidtke WORK ZONE ENGINEER

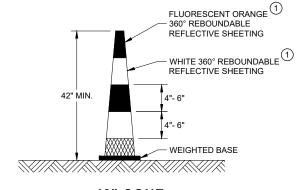
APPROVED

June 2017
DATE

#### **GENERAL NOTES**

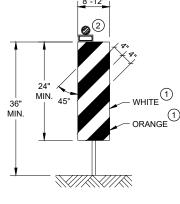
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





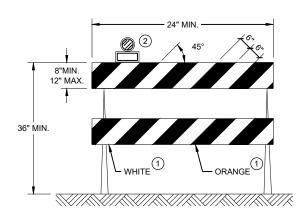
**42" CONE** DO NOT USE IN TAPERS

½ SPACING OF DRUMS



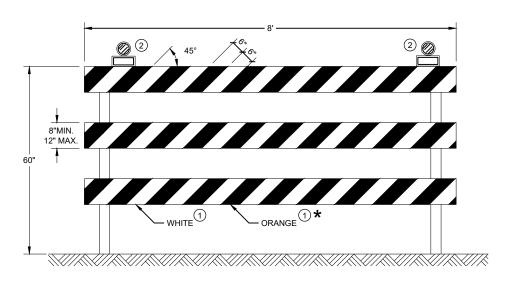
### **VERTICAL PANEL**

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



#### **TYPE II BARRICADE**

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



#### **TYPE III BARRICADE**

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

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

#### **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 07

Ŋ

SDD

APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	



TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

#### URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH** 

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF	
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

D D 15 D  $\infty$ 

6

Δ

 $\infty$ 

6

- 11/2" DIAMETER HOLES

Ω

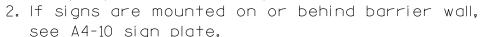
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

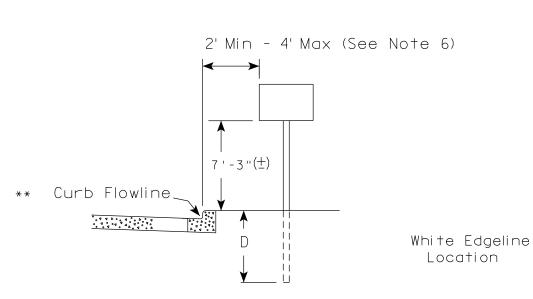
APPROVED

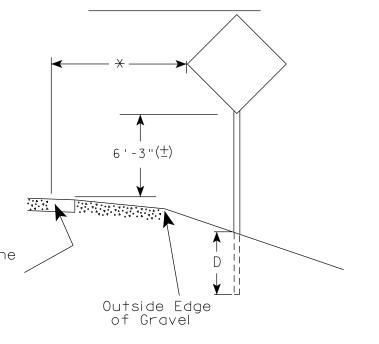
June 2017 DATE



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52). Mile Markers (D10 series). In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' ( $\frac{+}{-}$ ).

- 3. For expressways and freeways, mounting height is  $7'-3''(\pm)$  or  $6'-3''(\pm)$  depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is  $5' - 3'' \stackrel{(\pm)}{.}$
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (+) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directd by the Engineer.





2' Min - 4' Max (See Note 6) 6'-3"(±) \*\* Curb Flowline D

5'-3"(士) White Edgeline  $D \parallel$ 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.

HWY:

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

POST EMBEDMENT DEPTH

Area of Sign	
Installation	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

APPROVED For State Traffic Engineer

DATE 5/13/2020 

SHEET NO:

Ε

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A43.dgn COUNTY:

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

PLOT DATE: 13-MAY 2020 1:04



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



#### **ELEVATION VIEW**

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



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

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

#### GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4''-3'' (±).
- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- \*\* \* See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

## POST EMBEDMENT DEPTH

D
(Min)
4'
5'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





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

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

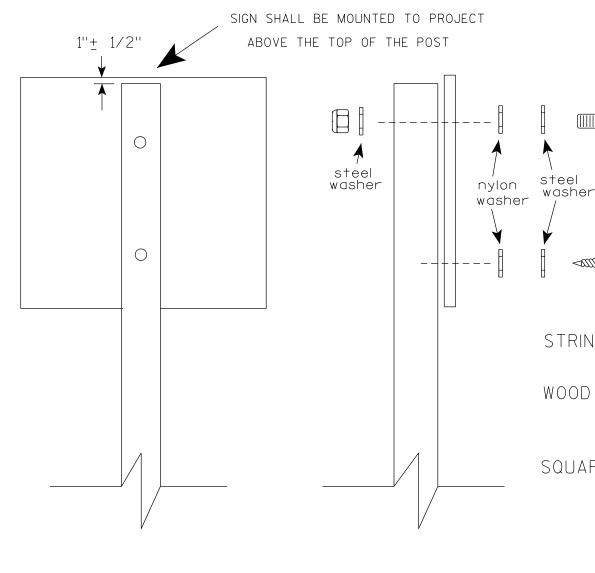
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:



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

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

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

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS -  $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS  $(4'' \times 6'')$ 

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 3/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ " STEEL 1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS TO POSTS

APPROVED

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A48.DGN

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

WISCONSIN DEPT OF TRANSPORTATION

Matther ≠or State Traffic Engineer

SHEET NO:



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer



### BANDING



SINGLE SIGN





# WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X<sup>3</sup>/<sub>8</sub>" I.D. X<sup>1</sup>/<sub>16</sub>" STEEL 1-1/4" O.D.  $\times \frac{3}{8}$ " I.D.  $\times$  .080 NYLON FOR ALL TYPE H SIGNS

CHANNEL

#### GENERAL NOTES

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

#### "J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

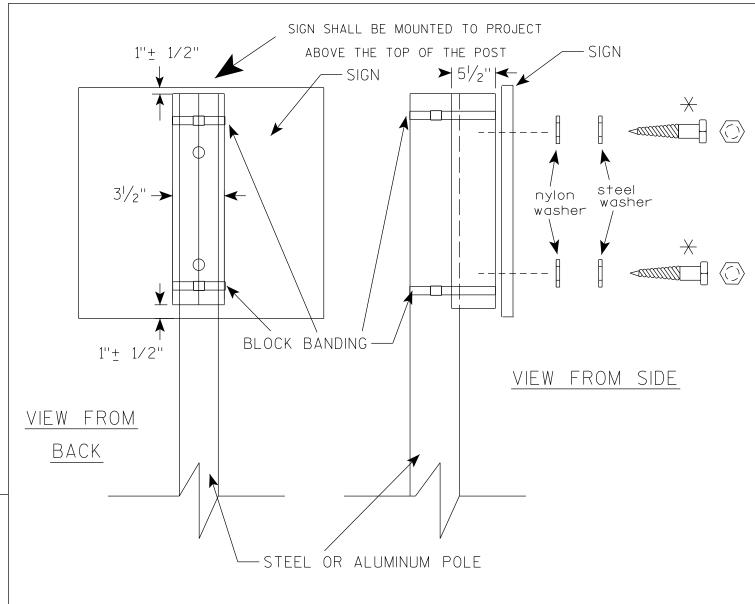
State Traffic Engineer

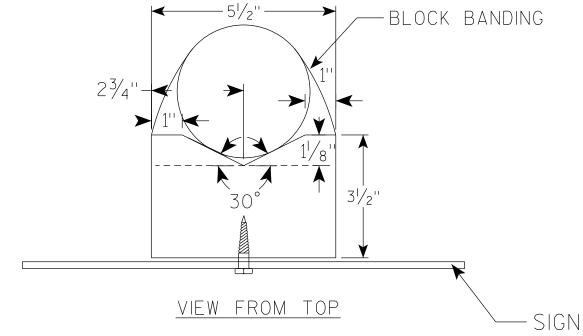
COUNTY:

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

PROJECT NO:





#### GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL,  $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

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

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

BLOCK BANDING DETAIL ( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

Matthew R

APPROVED

For State Traffic Engineer

SHEET NO:

DATE <u>6/10/19</u>

PLATE NO. <u>A5-10.2</u>

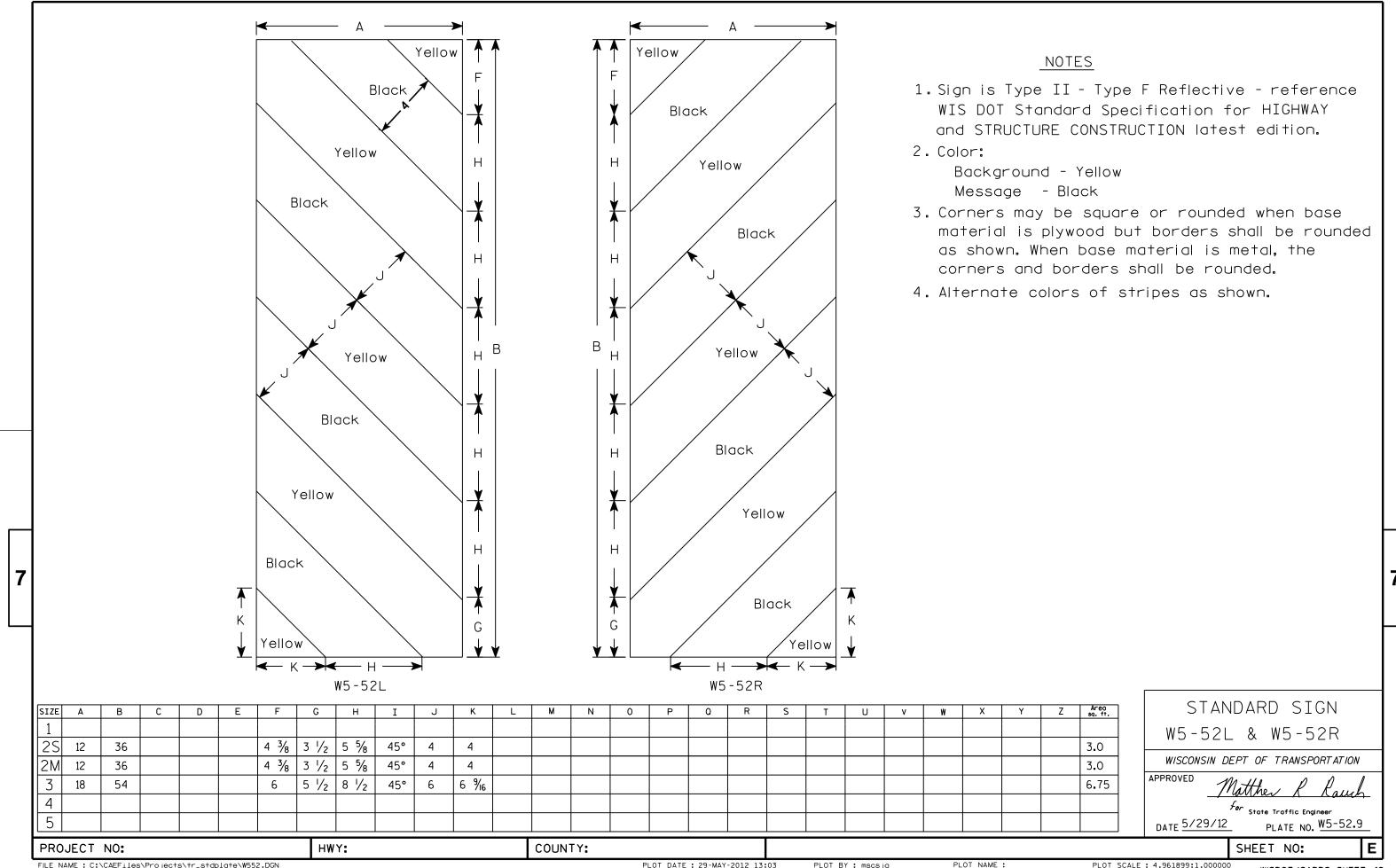
PROJECT NO:

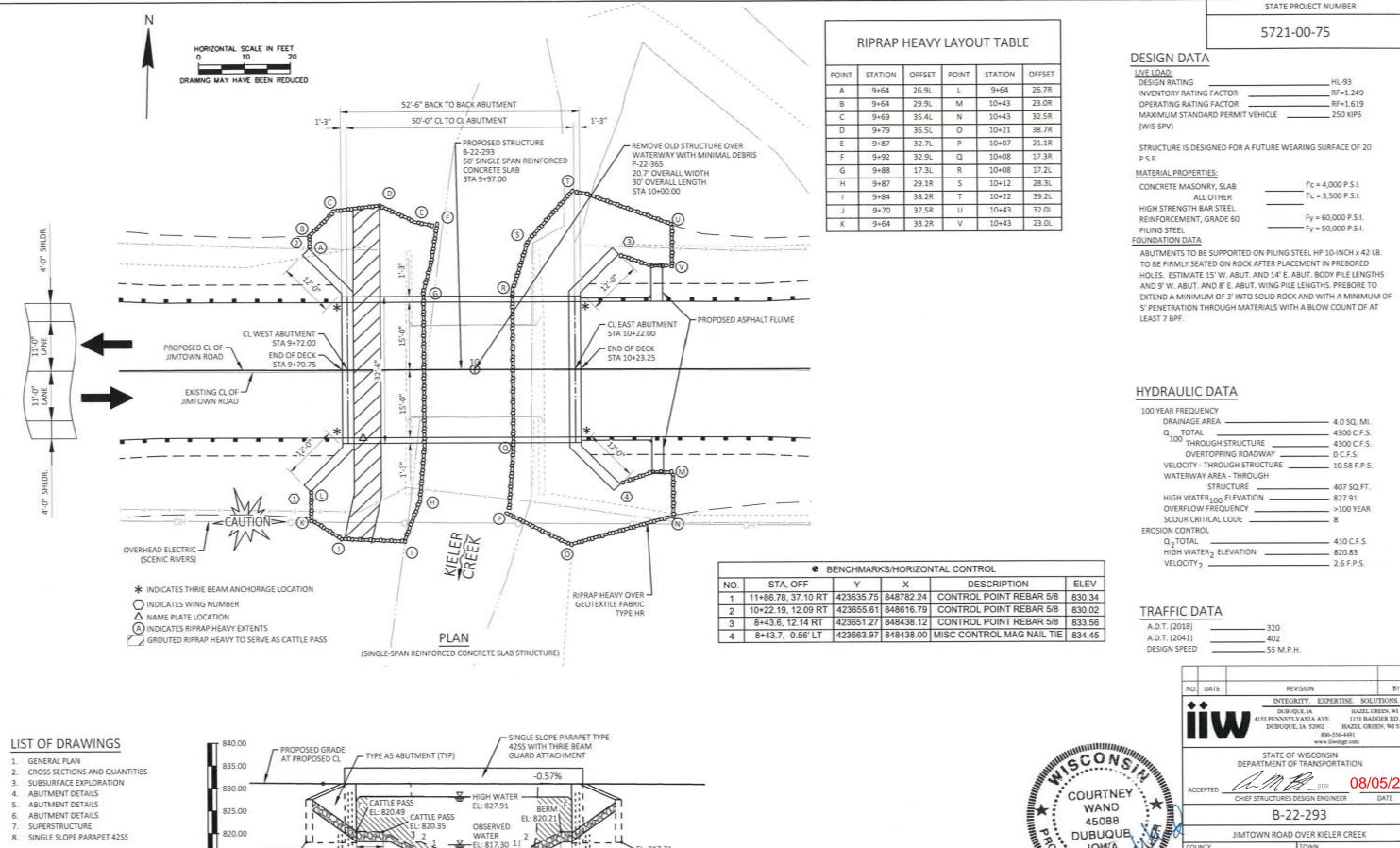
FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

PLOT BY : mscj9h

WISDOT/CADDS SHEET 42





EL: 817.71

EST. PREBORE LENGTH = 7'

EST. B/PREBORE = 810.71

AREA TO EXCAVATE INCLUDED IN "EXCAVATION FOR STRUCTURES BRIDGE B-22-293"

- PILING STEEL

HP 10-INCH X 42 LB.

EL: 817.99

PILING STEEL

HP 10-INCH X 42 LB.

EST. PREBORE LENGTH = 8"

EST. B/PREBORE = 809.99

815.00

810.00

图

(TYP)

HEAVY

GROUTED STREAMBED EL: 815.85

STREAMBED /

EL: 815.33

**ELEVATION** 

(NORMAL TO KIELER CREEK FLOOD FLOWS)

DEPARTMENT OF TRANSPORTATION 08/05/20 CHIEF STRUCTURES DESIGN ENGINEER B-22-293 JIMTOWN ROAD OVER KIELER CREEK AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS CEW CK'D. SHEET 1 OF 8 **GENERAL** PLAN

LOWA

me STONAL

7-23-2020

DESIGN CONSULTANT

COURTNEY WAND, PE

(563) 556-2464

BRIDGE OFFICE CONTACT

AARON BONK, P.E.

(608) 261-0261

\_RF=1.619

250 KIPS

f'c = 4.000 P.S.I.

f'c = 3,500 P.S.I.

Fv = 60.000 P.S.I.

4.0 SQ. MI.

\_\_ 4300 C.F.S. 4300 C F.S.

407 SO FT.

\_\_ >100 YEAR

410 C.F.S.

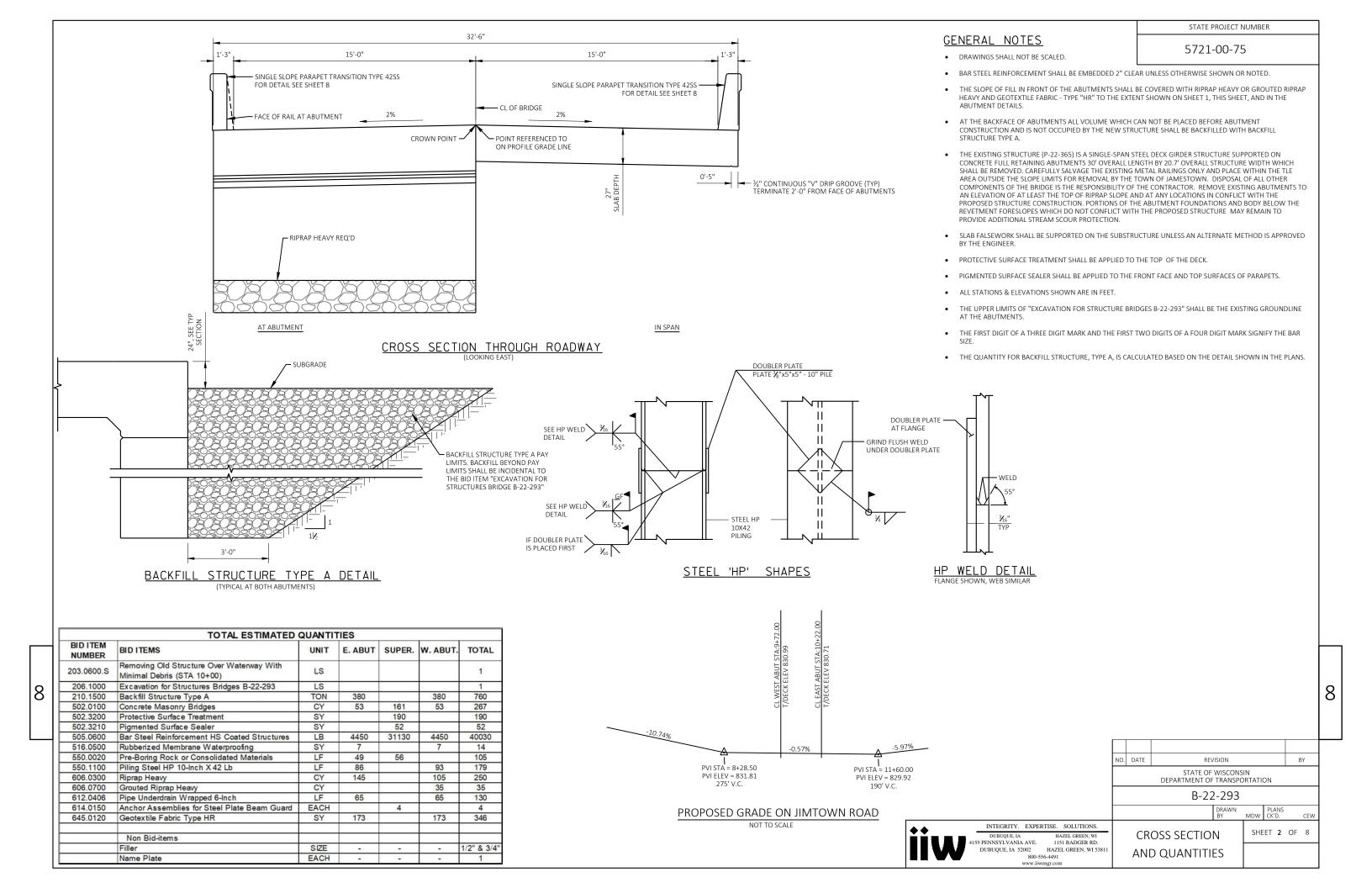
820.83

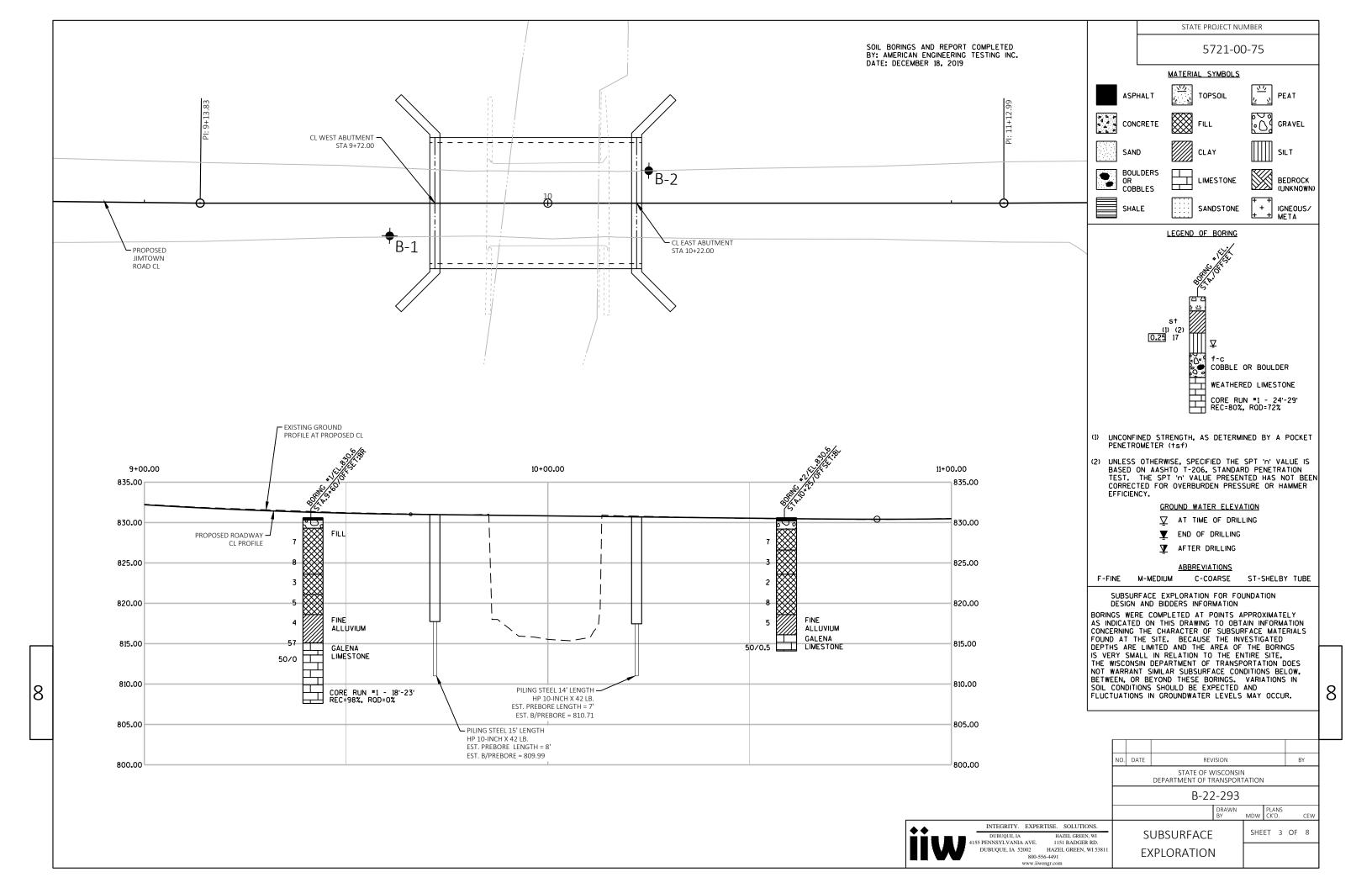
\_\_ 2.6 F.P.S.

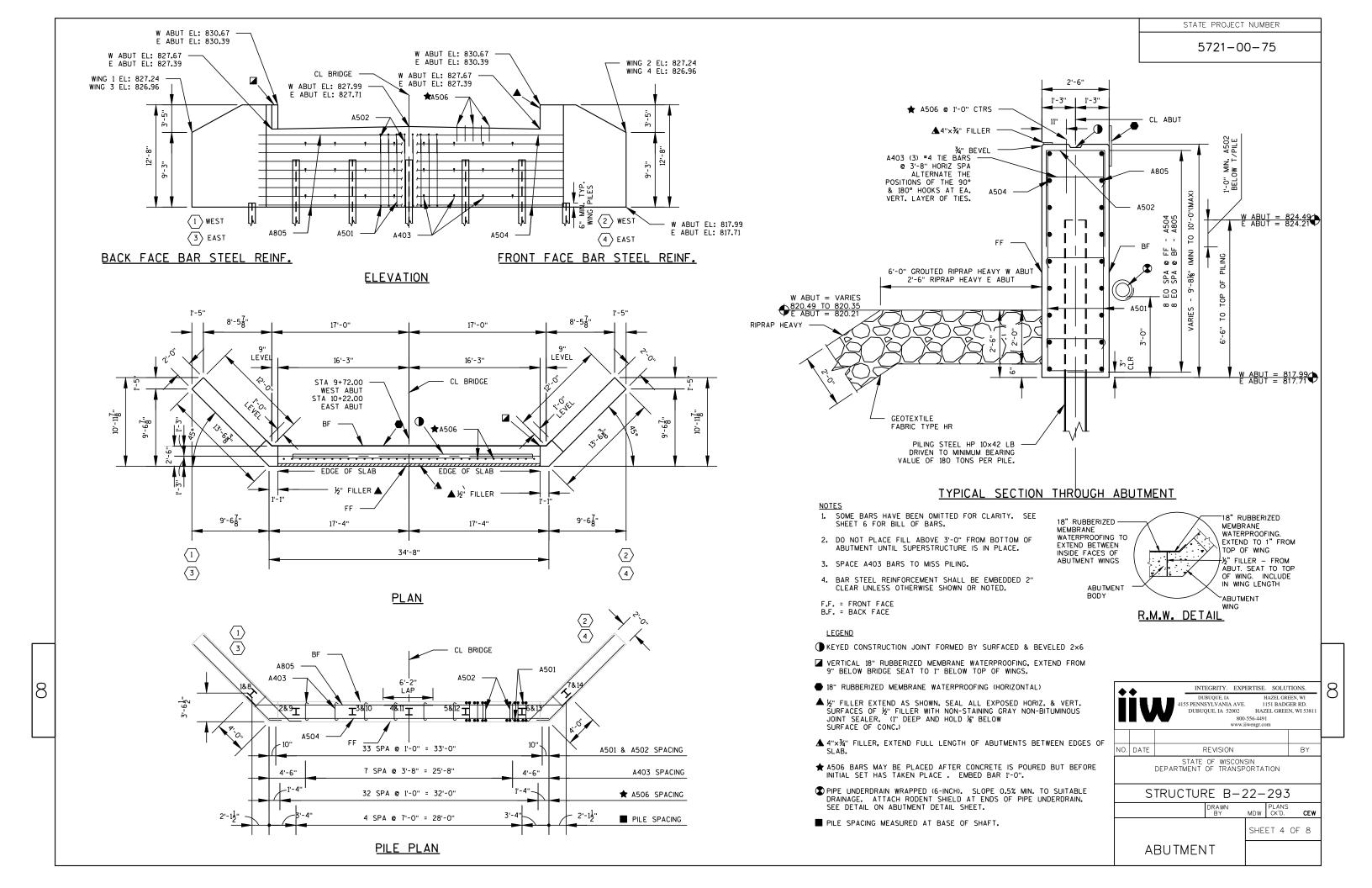
HAZEL GREEN, WI 1151 BADGER RD.

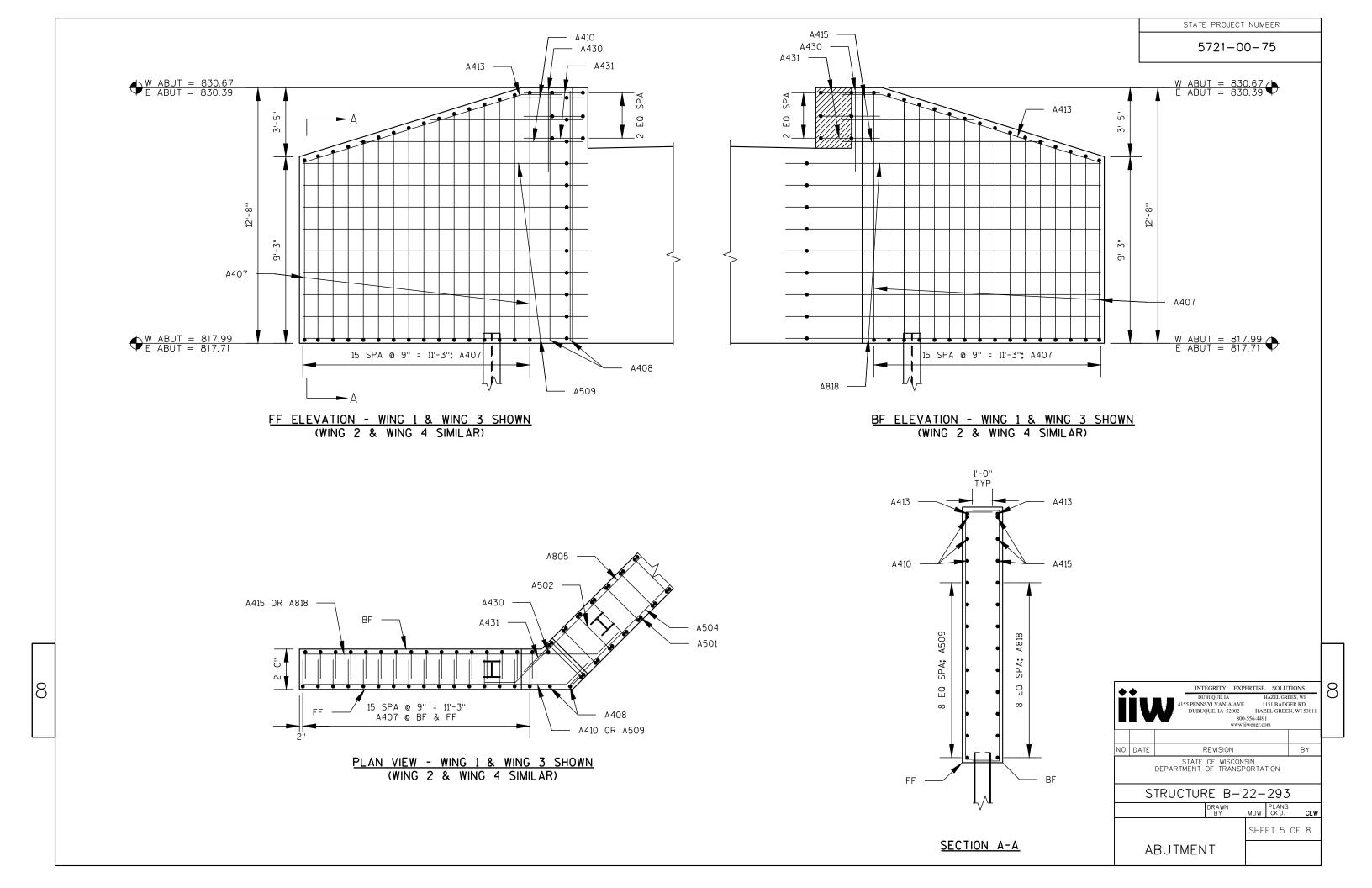
HAZEL GREEN, WI 5381

\_\_ 0 C.F.S.

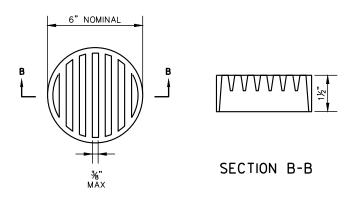








NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL.

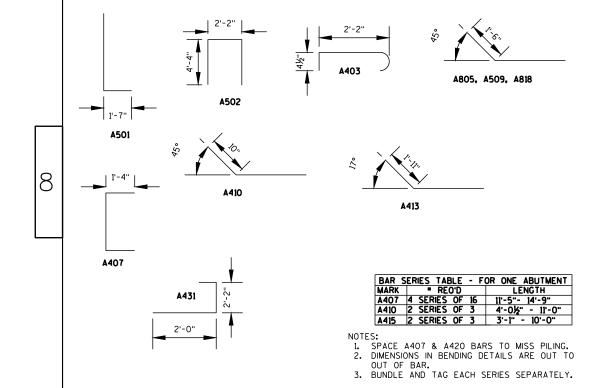


NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 × 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

RODENT SHIELD



BILL OF BARS - ONE ABUTMENT

X

X

LOCATION

BODY, VERT., F.F. & B.F.

BODY, TOP

BODY - TIE

BODY, HORIZ., F.F.

BODY, HORIZ., B.F.

BODY, VERT., DOWELS

WING, VERT.

WING, VERT.

WING HORIZ, F.F., LOWER

WING HORIZ., F.F., TOP

WING, TOP

WING HORIZ., B.F., TOP

WING HORIZ., B.F., LOWER

WING VERT., TOP

WING HORIZ., TOP

MARK COAT NO. REQ'D LENGTH SERIES BENT

34

24

18

33

64

18

18

2

10 '- 8

10 '- 7

34 '- 6

23 '- 10

2'-0

13 '- 1

12 '- 3

14'-7

7'-6

13 '- 3

6'-7

16 '- 1

4'-0

4'-9

\* THE LENGTH SHOWN FOR BARS IN SERIES IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE 'BAR SERIES TABLE' FOR ACTUAL LENGTHS.

A501

A502

A403

A504

A805

A506

A407

A408

A509

A410

A413

A415

A818

A430

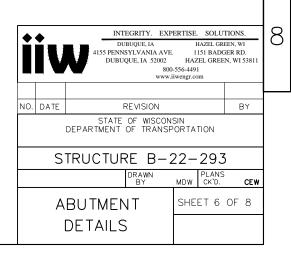
A431

X

X

X

X



STATE PROJECT NUMBER

BILL OF BARS - SUPERSTRUCTURE									
MARK	COAT	NO. REQ'D	LENGTH	BENT	LOCATION				
S1101	Х	47	52 '- 2		SLAB, LONG., BOTTOM				
S502	X	58	32 '- 2		SLAB, TRANS., TOP				
S603	×	63	32 '- 2		SLAB, TRANS., BOTTOM				
S504	X	33	52 '- 2		SLAB, LONG., TOP				
S1105	X	26	52 '- 2		SLAB, LONG., BOTTOM, EDGES				
S506	×	66	7 '- 10	×	SLAB, LONG., ENDS				
S515	Х	102	5 '- 0		SLAB, TRANS., TOP, AT PARAPETS				

		50'-0" SPAN LENGTH		-												5721-	00-75	
		SEE SHEET 8 FOR P	ARAPET BARS										BILL OF	BARS	- SUPE	RSTRUCT	URE	
_		<u> </u>		$\perp$							MARI	COAT	NO. REQ'D	LENGTH	BENT	1	OCATION	
<u> </u>	<u>'</u>	iii		!							S1101	X	47	52 '- 2		SLAB,	LONG., BOTTO	M
	I   <del>  </del>										S502	X	58	32 '- 2		SLAB	TRANS., TOP	ĺ.
	,	S515 BTWN. S502			CL EAST /	BUT					S603	X	63	32 '- 2		SLAB, 1	RANS., BOTTO	M
				/							S504	X	33	52 '- 2		SLA	B, LONG., TOP	å
	ĺ <del>-</del> j ⊦	<del> </del> -									S1105	X	26	52 '- 2		SLAB, LON	G., BOTTOM, E	.DGES
CL WEST ABUT —		S502 TOP									S506	X	66	7 '- 10	X	SLAB	LONG., ENDS	i
		S502 TOP TOP		<b>r</b>							S515	X	102	5 - 0		SLAB, TRANS	., TOP, AT PAI	RAPETS
		IO	S504 TOP		∕—— CL JIMTO₩N	ROAD												
		ВОТТОМ	S603		— EAST END	LOCATION		W. ABUT	1/10	2/10	3/10 4	10	5/10	6/10	7/10	8/10	9/10	E. ABUT
	1	ВОТТОМ	ВОТТОМ		OF DECK		CAMBED (IN)	0.0	0.7	1.4	1.0	2	23	22	10	1.4	0.7	0.0

S506

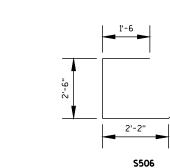
LOCATION		W. ABUT	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	E. ABUT
	CAMBER (IN)	0.0	0.7	1.4	1.9	2.2	2.3	2.2	1.9	1.4	0.7	0.0
W. DECK EDGE	STATION	9+72.00	9+77.00	9+82.00	9+87.00	9+92.00	9+97.00	10+02.00	10+07.00	10+12.00	10+17.00	10+22.00
W. DECK EDGE	TOP OF SLAB	830.67	830.64	830.61	830.58	830.55	830.53	830.50	830.47	830.44	830.41	830.39
C/L ROADWAY	STATION	9+72.00	9+77.00	9+82.00	9+87.00	9+92.00	9+97.00	10+02.00	10+07.00	10+12.00	10+17.00	10+22.00
C/L ROADWAY	TOP OF SLAB	830.99	830.96	830.93	830.91	830.88	830.85	830.82	830.79	830.77	830.74	830.71
E. DECK EDGE	STATION	9+72.00	9+77.00	9+82.00	9+87.00	9+92.00	9+97.00	10+02.00	10+07.00	10+12.00	10+17.00	10+22.00
E. DECK EDGE	TOP OF SLAB	830.67	830.64	830.61	830.58	830.55	830.53	830.50	830.47	830.44	830.41	830.39

#### TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE SLAB THICKNESS CAMBER LESS PLUS

PLUS FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR) EQUALS

TOP OF SLAB FALSEWORK ELEVATION.



#### SURVEY TOP OF SLAB ELEVATIONS

	WEST	ABUTMENT	5/10 PT.	EAST	ABUTMENT
DECK EDGE					
CROWN OR C					
DECK EDGE					

### SEE SHEET 8 FOR PARAPET BENT BARS

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE CENTERLINE OF ABUTMENTS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR CENTER LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

# 50'-0" SPAN - DESIGN PROFILE GRADELINE CAMBER DIAGRAM

WEST END OF DECK

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION & FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT. DEAD LOAD DEFLECTION APPROXIMATES ½ OF CAMBER

CROSS SECTION THROUGH ROADWAY

#### **NOTES**

<u>PLAN</u>

BOTTOM

52'-6" BACK TO BACK ABUTMENTS

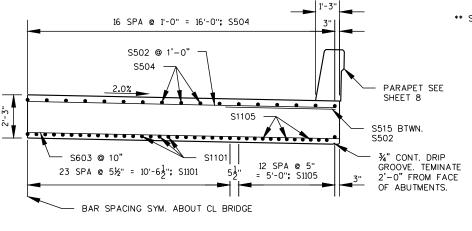
TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

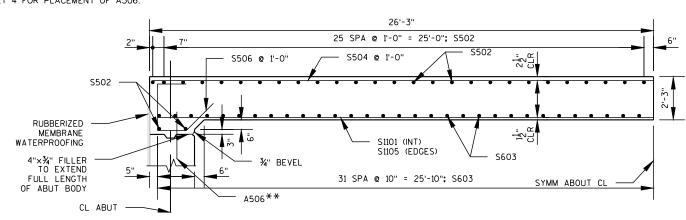
BOTTOM

EDGES

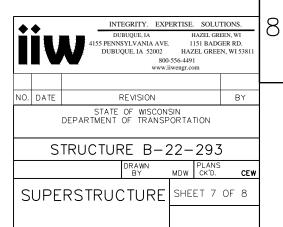
- 2. ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).
- 3. PARAPETS, SIDEWALKS AND MEDIANS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED. EXCEPT FOR STAGED CONSTRUCTION.
- 4. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LEAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

\*\* SEE SHEET 4 FOR PLACEMENT OF A506.

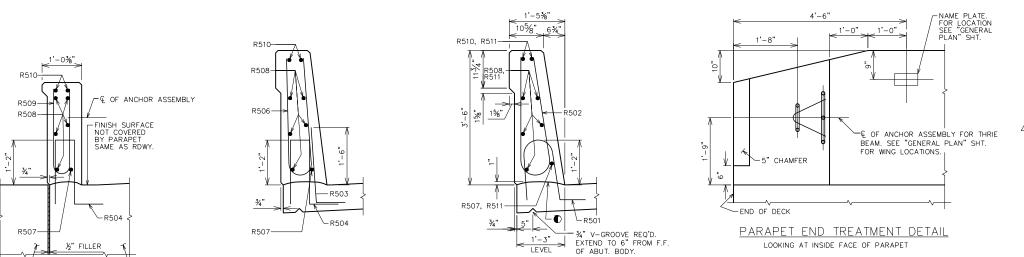




PARTIAL LONGIT. SECTION THROUGH ROADWAY



5721 - 00 - 75



SECTION C-C

'-9" MIN. LAP

R508

-**▽**R501

**→**C

R502

-R501

**→**C

R507, R508

52 SPA. @ 8" = 34'-8"

R501 & R502

-OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE

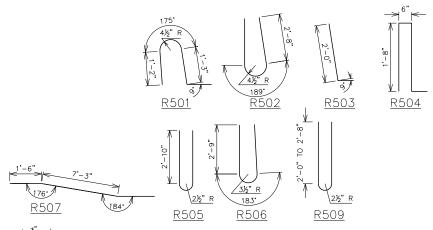
BILL OF BARS - ONE PARAPET COAT NO. REQ'D LENGTH MARK BENT LOCATION R501 53 4 '- 5 PARAPET, VERT R502 53 6'-8 PARAPET, VERT R503 24 2'-9 PARAPET, VERT., END R504 PARAPET, VERT., END 34 4 '- 4 R505 10 6 '- 5 PARAPET, VERT., END R506 PARAPET, VERT., END 6'-6 X 12 X R507 PARAPET HORIZ END 2 13 '- 0 X X R508 13 '- 0 PARAPET, HORIZ., END X 10 5 '- 5 PARAPET, VERT., END R509 X 12 X PARAPET, HORIZ., END R510 X 4 13 '- 0 R511 X 8 30 '- 0 PARAPET, HORIZ.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS

BAR SERIES TABLE - FOR ONE PARAPET

BAR MARK	NO. REQ'D	LENGTH
R509	2 SERIES OF 6	4'-9" TO 6'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY



165 R510

-THREADED INSERTS FOR 1/8" DIA. X 2" LONG GALVANIZED HEX HEAD CAP SCREWS. CAP SCREWS TO BE THREADED A MIN. OF

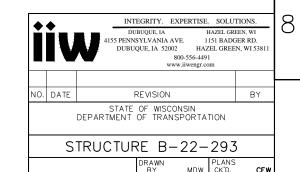
1%" AND SHALL BE SUPPLIED, INCLUDING WASHERS, WITH ASSEMBLY, INSERTS TO BE THREADED A MINIMUM OF 13%" - %6" DIA. BARS WELD TO INSERTS SYM. ABOUT ASSEMBLY— WELD TO INSERTS.

DETAIL OF ANCHOR ASSEMBLY NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

OCONST. JOINT - STRIKE OFF AS SHOWN

■ USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.



SHEET 8 OF 8

SINGLE SLOPE PARAPET 42SS



-ABUTMENT SECTION A-A

2'-6"

-R509-

∽5" CHAMFER

5 SPA @ 6" = 2'-6"

. — ABUTMENT

½" FILLER

-**∀**R504 -

6'-6"

6'-6"

**→**B

- R506

5 SPA @ 6" = 2'-6"

R503, R504, R506

INSIDE ELEVATION NW CORNER SHOWN, OTHERS SIMILAR

9'-0"

- R505-

- R504 **-**

R503, R504, R505

SECTION B-B

NW CORNER SHOWN, OTHERS SIMILAR

	JIMTOWN ROAD EARTHWORK VOLUMES										
			Area (SF) Incremental Volume (CY) (Unadjusted) Cumulative Volume (CY) (Adjusted)								ed)
Station	Distance (ft)	Cut	Fill	Rock Exc.	Cut (1.0)	Fill (1.0)	Rock Exc.	Cut (1.0) EXCAVATION COMMON	Expanded Fill (1.3)	Rock Exc. (unexpanded)	Net Earthwork
8+50.00	-	27	1	0	0	0	0	0	0	0	0
8+65.00	15.00	53	35	0	22	10	0	22	13	0	9
8+75.00	10.00	52	53	0	19	16	0	42	34	0	7
8+80.93	5.93	55	60	0	12	12	0	53	51	0	3
9+00.00	19.07	53	57	0	38	41	0	91	104	0	-13
9+13.83	13.83	50	58	0	26	29	0	118	142	0	-24
9+30.72	16.89	53	47	0	32	33	0	150	185	0	-35
9+50.00	19.28	52	42	0	37	32	0	187	226	0	-39
9+63.68	13.68	53	40	0	27	21	0	214	253	0	-39
					V	VEST APPROACI	H SUBTOTALS:	214	253	0	-39
				ST	RUCTURE B-2	22-293 (SEE ADD	ITIONAL TABL	E BELOW)			
10+30.32	-	53	79	0	0	0	0	0	0	0	0
10+50.00	19.68	53	27	0	39	39	0	39	50	0	-11
10+63.28	13.28	54	22	0	26	12	0	65	66	0	-1
10+88.28	25.00	56	46	0	51	31	0	116	107	0	9
11+00.00	11.72	59	56	0	25	22	0	141	136	0	6
11+13.15	13.15	41	53	0	24	26	0	165	170	0	-4
11+17.35	4.21	19	41	0	5	7	0	170	179	0	-9
11+28.79	11.43	7	26	0	6	14	0	176	198	0	-22
11+46.67	17.88	0	3	0	2	10	0	178	211	0	-33
					I	EAST APPROACI	H SUBTOTALS:	178	211	0	-33
						PRO	OJECT TOTALS	392	464		-72
<u>I</u>								205.0100 EXCAVATION COMMON			

#### NOTES ON EARTHWORK QUANTITIES:

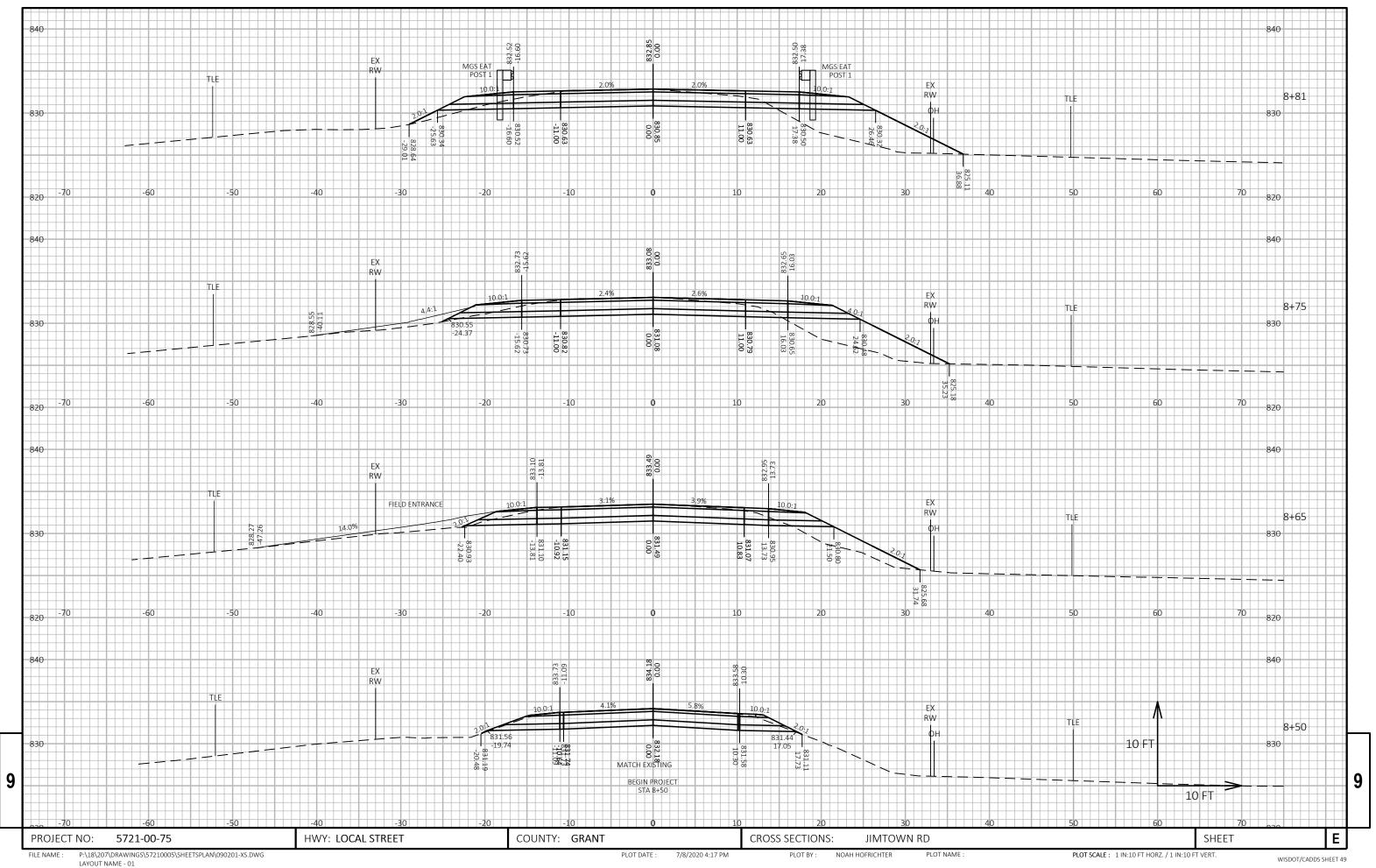
- ROADWAY VOLUMES INDICATE A NET FILL NEED OF 72 CY. HOWEVER, SIGNIFICANT ADDITIONAL CUT VOLUME WILL BE GENERATED AS PART OF THE STRUCTURE EXCAVATION WHICH IS EXPECTED TO INCLUDE SUFFICIENT SUITABLE MATERIAL TO PROVIDE THE NEEDED ROADWAY FILL WITHOUT THE NEED FOR OFF-SITE BORROW. THE STRUCTURE TABLE BELOW IS INCLUDED FOR INFORMATION ONLY TO HELP CONVEY THAT THIS VOLUME IS AVAILABLE ON THE PROJECT. PAY QUANTITY IN THE PLANS FOR COMMON EXCAVATION REFLECTS THE TOTAL ROADWAY CUT VOLUME IN BOLD ABOVE. ALL EXCAVATION RELATED TO THE STRUCTURE, INCLUDING THAT NOT INDICATED IN THE TABLE BELOW IS INCLUDED IN THE LUMP SUM ITEM "EXCAVATION FOR STRUCTURES (BRIDGE) B-22-293"
- CUMULATIVE EXPANDED FILL VOLUMES REFLECT AN EXPANSION FACTOR OF 1.3
- EXISTING ASPHALTIC PAVEMENT IS INCLUDED IN COMMON EXCAVATION TOTALS

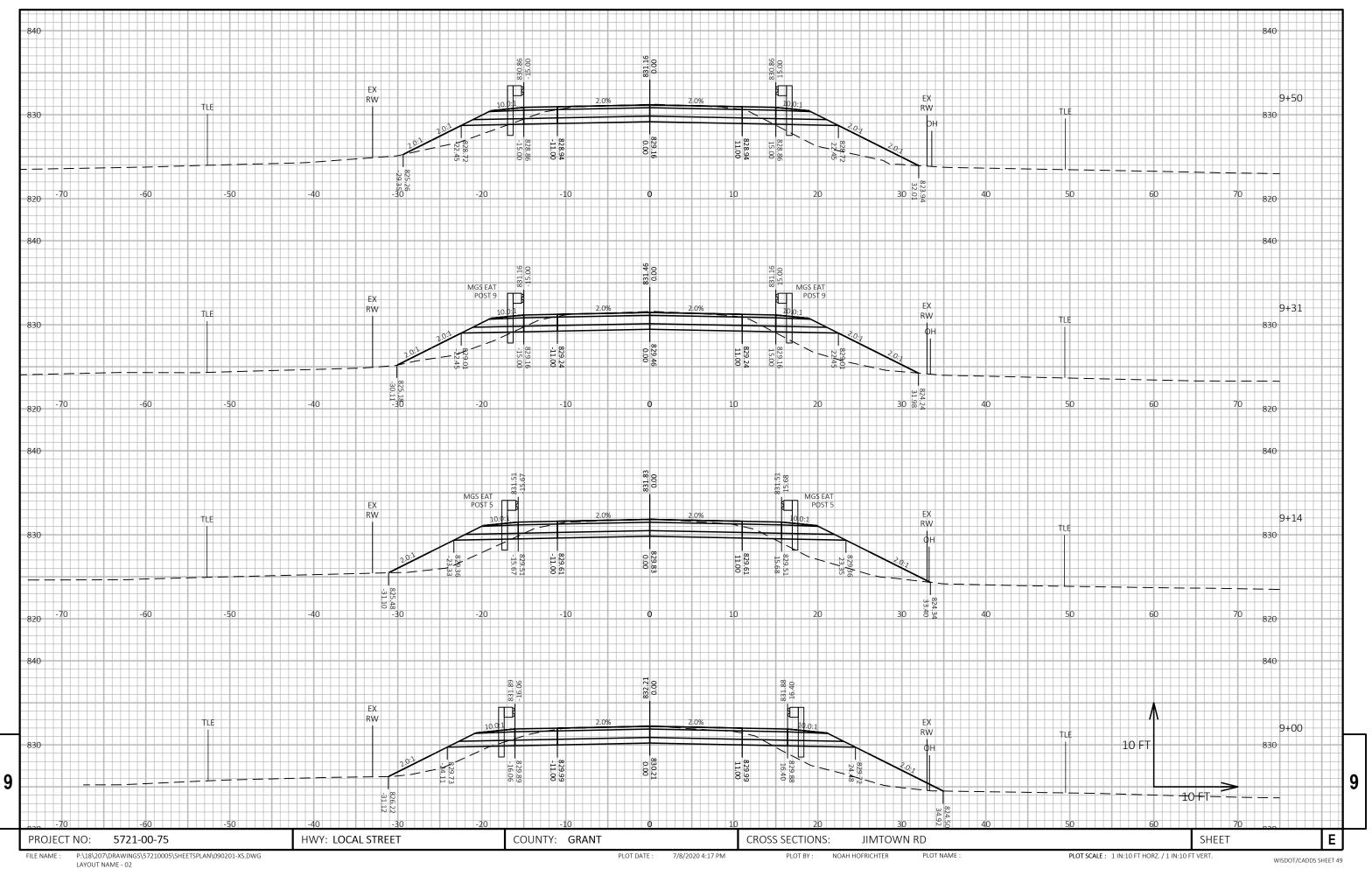
STRUCTURE B-22-293										
	Cut (CY)	Fill (1.3 Factor) (CY)	Net Earthwork (CY)							
WEST ABUTMENT GRADING	140	13	127							
EAST ABUTMENT GRADING	280	3	277							

NOTE: THESE VALUES ARE NOT A PAY ITEM AND ARE FOR INFORMATION ONLY, VALUES ABOVE REPRESENT CUT AND FILLS FROM EXISTING GROUND TO FINISHED SLOPES IN FRONT OF ABUTMENT AND WINGS. THEY DO NOT REFLECT CUT DUE TO ABUTMENT ITSELF AND EXCAVATION BEHIND ABUTMENT, WHICH IS EXPECTED TO GENERATE ADDITIONAL CUT VOLUME AND IS INCLUDED IN THE EXCAVATION FOR STRUCTURES BID ITEM.

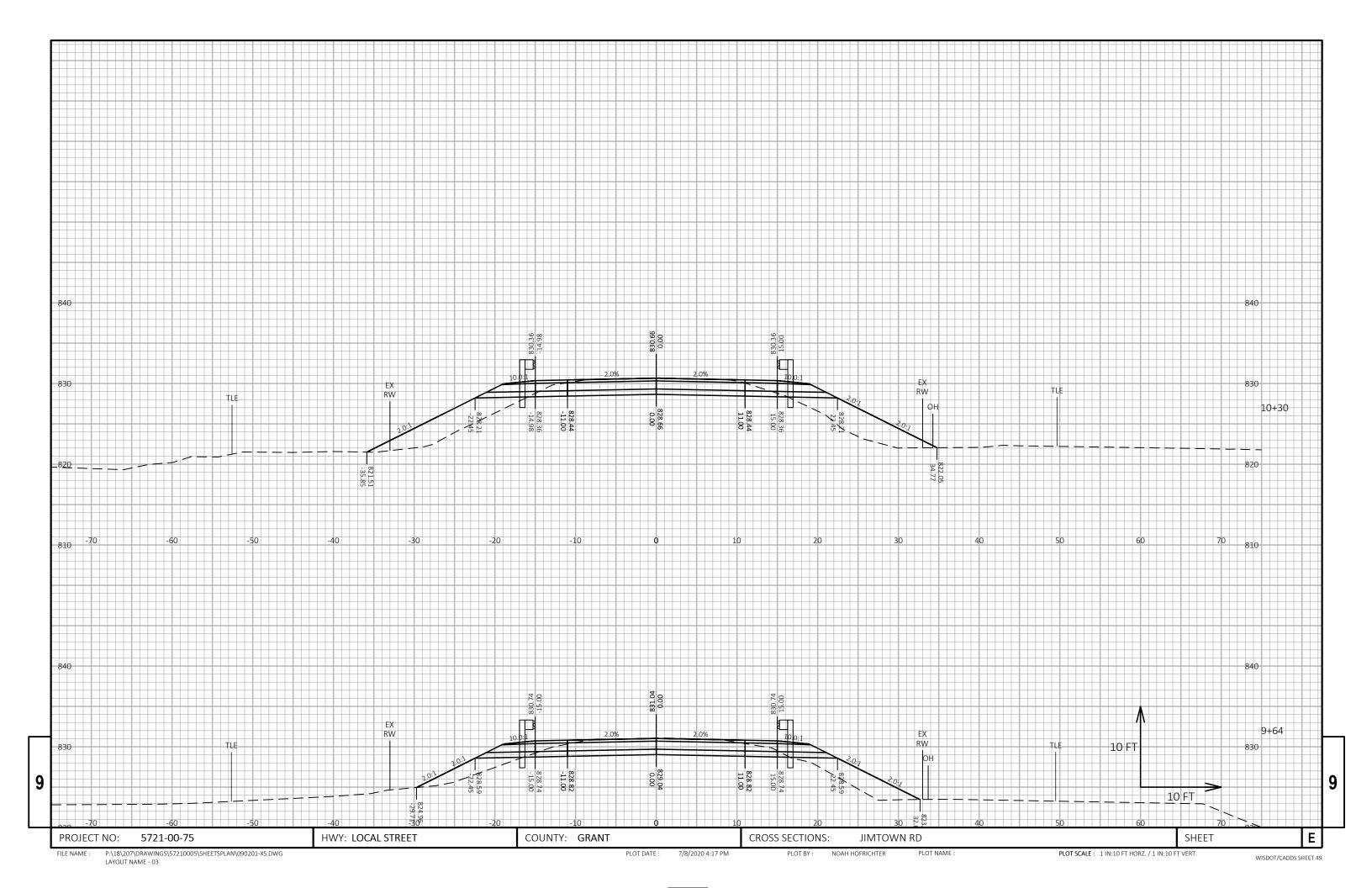
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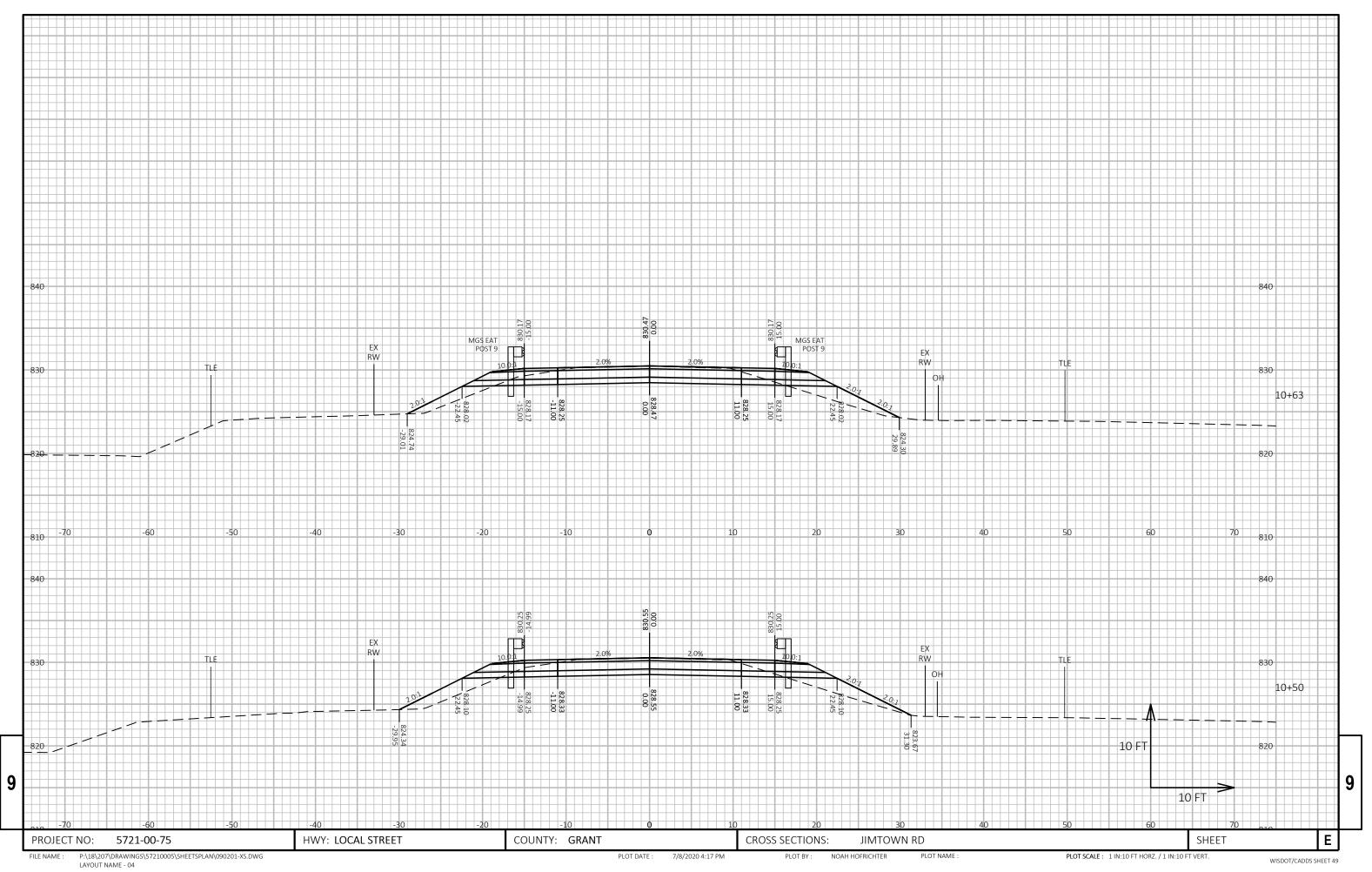
COUNTY: GRANT PROJECT NO: 5721-00-75 HWY: LOCAL STREET EARTHWORK JIMTOWN RD SHEET P:\18\207\DRAWINGS\57210005\SHEETSPLAN\090101-EW.DWG PLOT DATE : PLOT BY: NOAH HOFRICHTER PLOT SCALE: 1 IN:5 FT HORZ. / 1 IN:5 FT VERT.

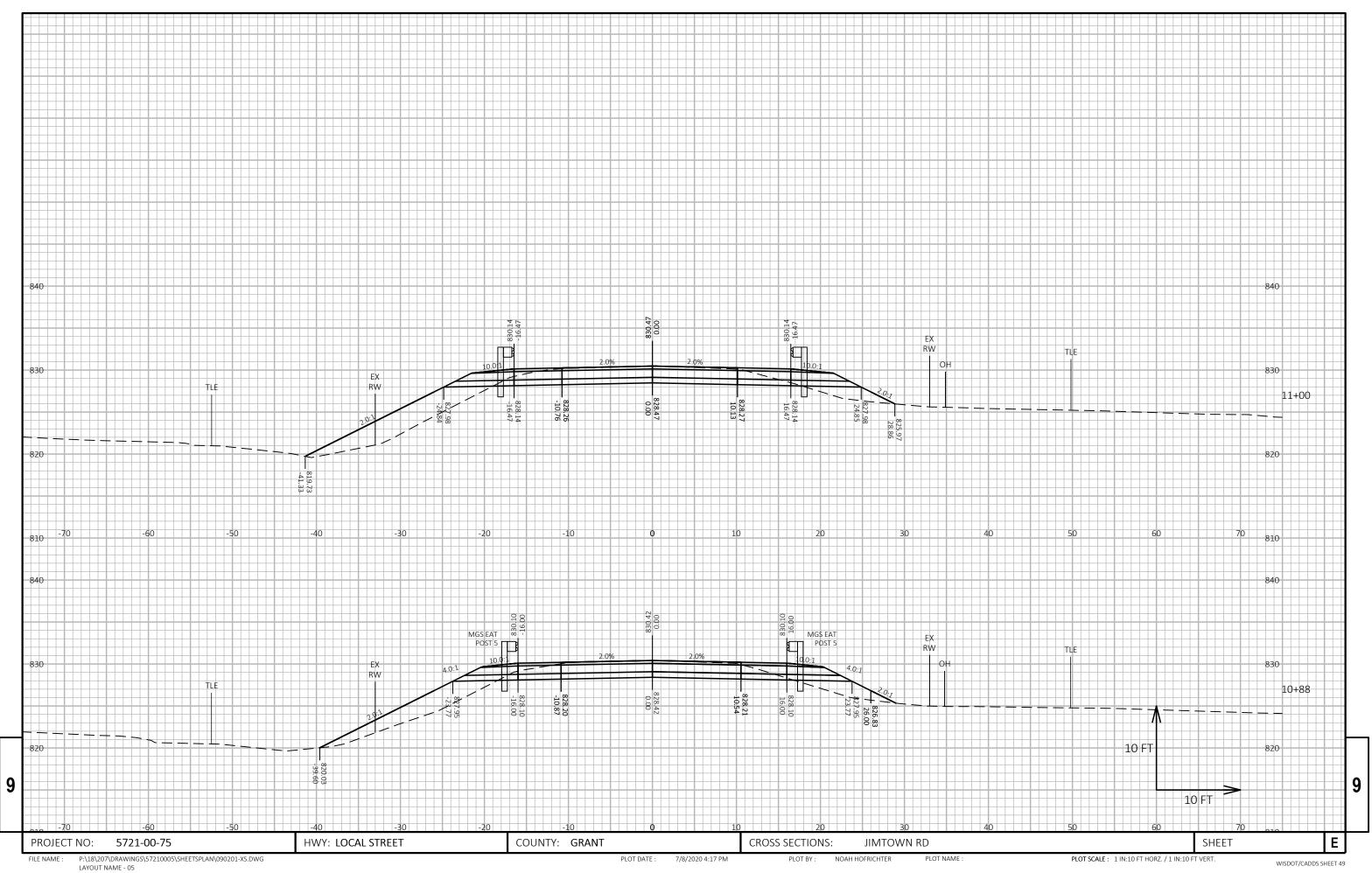




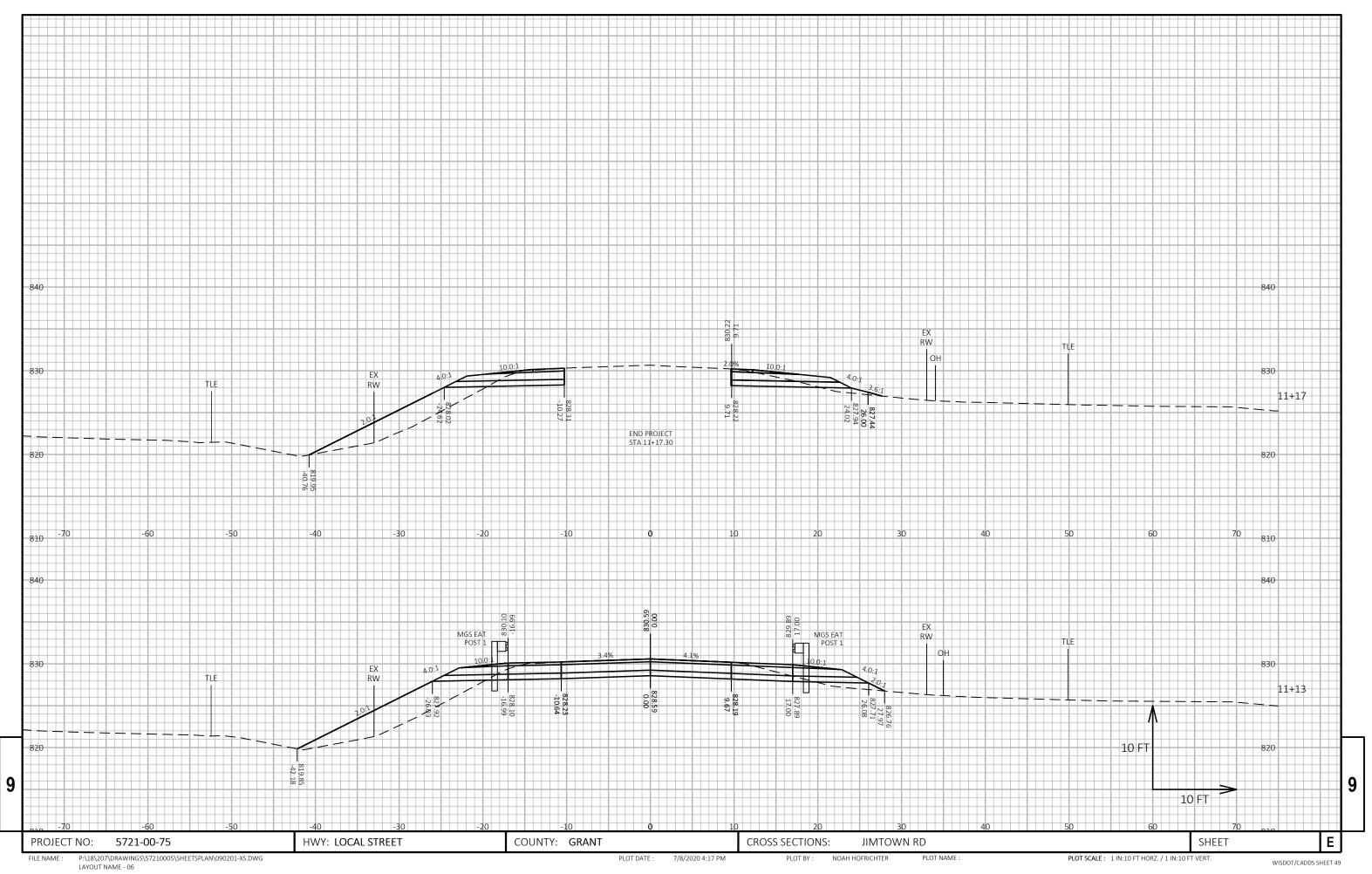
LATOUT INAIVIE - UZ

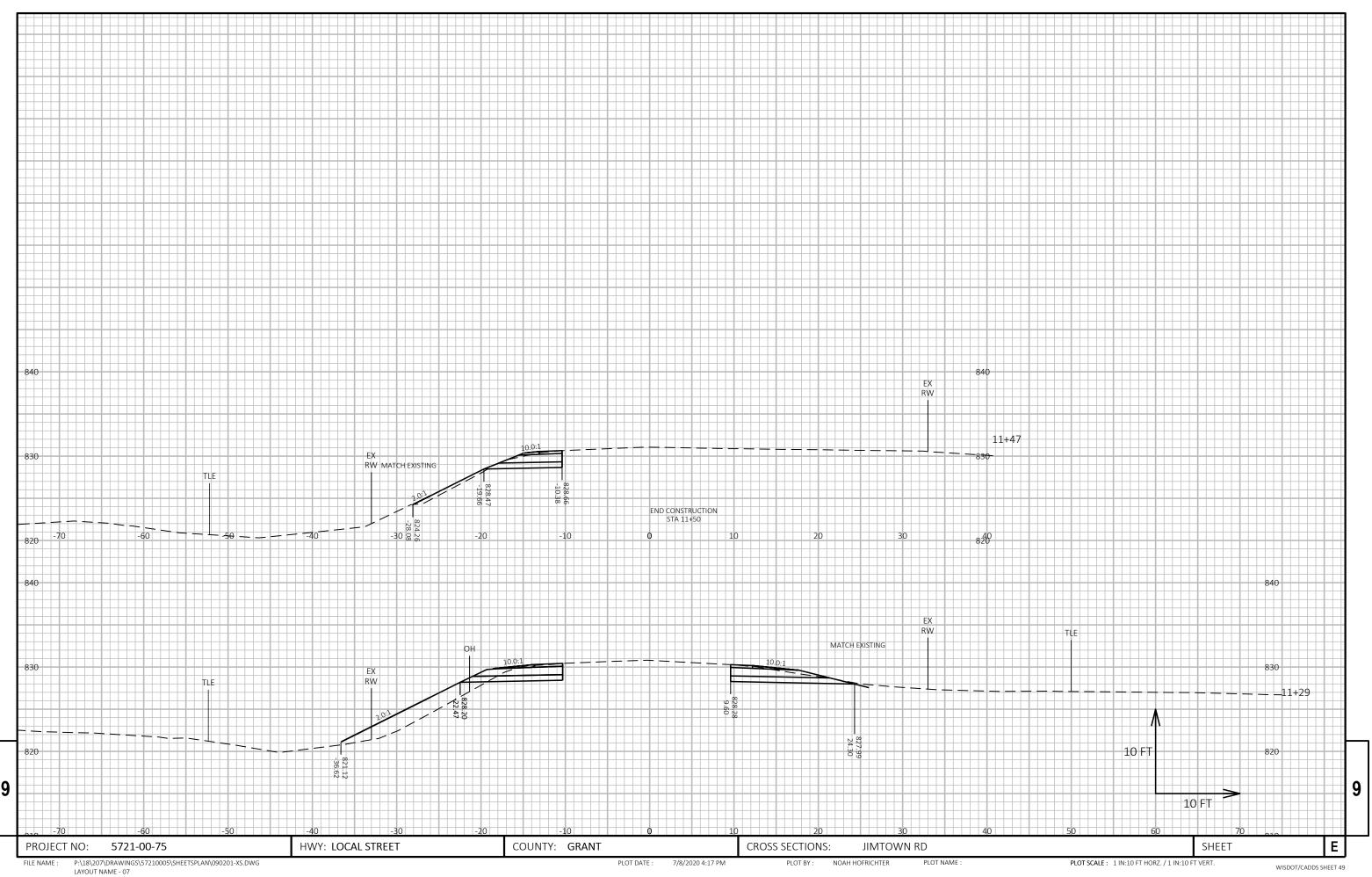






ENDOT NAME - 03





EATOUT NAIME - U7

Notes



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