JULY 2021

Section No.

Section No.

Section No.

Section No.

Section No.

Section No Section No

TOTAL SHEETS = 62

DESIGN DESIGNATION

(2021) = 260 VPD

= 320 VPD

= 40

= 60/40

= 55 MPH

= 44,000 (HMA)

(2041)

CONVENTIONAL SYMBOLS

A.A.D.T.

A.A.D.T.

D.H.V.

DESIGN SPEED

CORPORATE LIMITS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

PROPERTY LINE

LOTTINE

D.D.

ESALS

Estimate of Quantities

Standard Detail Drawings

Computer Farthwork Data

Right of Way Plat

Plan and Profile

Structure Plans

Cross Sections

# Section No. 1 Title Section No. 2 Typical Sections and Details Section No. 2 Typical Sections and Details Section No. 2 Typical Sections and Details DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

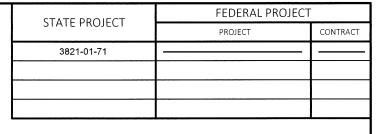
# T ELDORADO, TOWN LINE ROAD

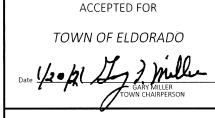
**VAN DYNE CREEK BRIDGE** 

# LOCAL STREET FOND DU LAC COUNTY

3821-01-71

#### Town of Black Wolf, Town of Nekimi, Winnebago County Winnebago County END PROJECT STATION 10+66.25 Y= 421515.570 X= 796688.984 Van CHESTNUT F Dyne STRUCTURE B-20-0244 RP SHIP 26) North 티블106` **BEGIN PROJECT** STATION 9+33.75 ELDORADO Y= 421383.086 X= 796686.881 Eldorado RP 36 MASCOUTIN 1 TRAIL TRIPLE KAY # RD **≓**000 51 HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), FOND DU LAC COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID





ORIGINAL PLANS PREPARED BY



95 South Ploneer Road, Suite 300 • Fond du Lac, WI 54935 (920) 924-5720 • fax (920) 924-5725





## STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor GREMMER & ASSOCIATES, INC.

Designer GREMMER & ASSOCIATES, INC.

Project Manager BRIAN EDWARDS

Regional Framiner NORTHEAST REGION

ROVED FOR THE DEPARTMENT

NATE: 1/25/21 Bris O. Edward

(a.B.m.n.)

JAMES THOMPSON

Ε

GRADE LINE

ORIGINAL GROUND

MARSH OR ROCK PROFILE

LABEL \_\_\_

Ħ

6

(To be noted as such)

SPECIAL DITCH

UTILITIES

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

STORM SEWER

TELEPHONE

WATER

GRADE ELEVATION

CUI VERT (Profile View)

TOTAL NET LENGTH OF CENTERLINE = 0.025 MI

COORDINATES, GRID BEARINGS, AND GRID DISTANCES, GRID DISTANCES

ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED

TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A

#### **GENERAL NOTES**

ALL DISTANCES AND STATIONING SHOWN ON THIS PLAN ARE GROUND VALUES.

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 NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

A VERTICAL SAW CUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS, SIDEWALKS AND PAVEMENTS AT THE REMOVAL LIMITS, AND WHERE NEW ASPHALT ABUTS
EXISTING PAVEMENT TO CREATE A SMOOTH CONTINUOUS VERTICAL FACE. SAWCUT SLURRY SHALL BE ACTIVELY MANAGED TO PREVENT RELEASE OF SLURRY INTO WATERWAY AND WETLANDS.

SAWCUT LOCATIONS SHOWN ON THE PLANS ARE SUBJECT TO ADJUSTMENT BY THE

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

TOPSOIL, SEED AND EROSION MAT AS SHOWN IN PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE PLACED ON ALL DISTURBED AREAS, EXCLUSIVE OF THE AREA OCCUPIED BY THE NEW PAVEMENTS, SIDEWALKS, ENTRANCES, AND RELATED

NO FERTILIZER SHALL BE APPLIED WITHIN 20 FEET OF A BODY OF WATER OR WETLAND.

SECTIONS AS SHOWN ON THE CROSS-SECTIONS INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED.

EROSION CONTROL ITEMS SHOWN ARE APPROXIMATE, THE EXACT LOCATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. EROSION CONTROL ITEMS TO BE INSTALLED PRIOR TO UPSLOPE WORK. ALL FROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THAT THE MEASURE IS NO LONGER NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EROSION CONTROL MEASURE AS DIRECTED BY THE ENGINEER.

INSTALL SAFETY EDGE ON ASPHALTIC SURFACE PAVEMENTS WITH ASPHALTIC SURFACE PAVED SHOULDER OF 3 FEET OR LESS.

PLACE 4.0" ASPHALTIC SURFACE IN TWO LAYERS OF THE FOLLOWING THICKNESSES: UPPER LAYER THICKNESS = 1.75" NOMINAL GRADATION SIZE = 12.5 MM LOWER LAYER THICKNESS = 2.25" NOMINAL GRADATION SIZE = 19.0 MM

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SDD "LONGITUDINAL MARKING (MAINLINE)" AND SDD "SIGNING AND MARKING FOR TWO LANE BRIDGES."

#### **ABBREVIATIONS**

ANNUAL AVERAGE DAILY TRAFFIC A.A.D.T. AVERAGE DAILY TRAFFIC A.D.T. AE. AEW APRON ENDWALL AGGREGATE AGG ASPH ASPHALT BASE AGGREGATE DENSE RAD

BM BENCHMARK

CRUSHED AGGREGATE BASE COURSE CABC CENTER OF CURVATURE CC COMMERCIAL ENTRANCE CE

CENTER LINE C/L CONC CONCRETE

CORRUGATED METAL CULVERT PIPE CMCP CMP CORRUGATED METAL PIPE

D DEGREE OF CURVE DELTA D.H.V. DESIGN HOURLY VOLUME

EXTERNAL DISTANCE FROM MIDPOINT OF CIRCULAR CURVE FROM ANGLE INTERSECTION

EL, ELEV ELEVATION

ESALS EQUIVALENT SINGLE AXLE LOADS EXCAVATION EXC

FF FIFI D ENTRANCE FLOW LINE F/L, FL HEIGHT HΤ INTER INTERSECTION INV INVERT LENGTH OF CURVE

LHF LEFT HAND FORWARD MP MARKER POST NC NORMAL CROWN NOM NOMINAL NOR. NORM NORMAL PAVT PAVEMENT

POINT OF CURVE PCC POINT OF COMPOUND CURVE PRIVATE ENTRANCE PF PΙ POINT OF INTERSECTION

P.L. PROPERTY LINE PLE PERMANENT LIMITED EASEMENT

PT POINT OF TANGENT RADIUS OF CURVE R/L REFERENCE LINE RIGHT OF WAY R/W RC REVERSE CROWN

RCP REINFORCED CONCRETE PIPE REQ'D REQUIRED

RUN OFF LENGTH RO SALV SALVAGED

SDD STANDARD DETAIL DRAWING(S) SUPERELEVATION

SF SEG SEGMENT SHLD SHOULDER S/L SURVEY LINE PERCENT TRUCKS TANGENT LENGTH TEMP TEMPORARY TER TERRACE

TLE TEMPORARY LIMITED EASEMENT

TYP

VELOCITY OR DESIGN SPEED VAR VARIABLE VC VERTICAL CURVE VCL VERTICAL CURVE LENGTH VPC VERTICAL POINT OF CURVATURE VPI VERTICAL POINT OF INTERSECTION VPRC VERTICAL POINT OF REVERSE CURVATURE

VERTICAL POINT OF TANGENCY

#### ORDER OF SECTION 2 SHEETS

**GENERAL NOTES** TYPICAL SECTIONS CONSTRUCTION DETAILS EROSION CONTROL PLAN SIGNING PLAN

#### UTILITIES

#### COMMUNICATIONS

70 EAST DIVISION STREET FOND DU LAC, WI 54935 ATTN: CHUCK BARTELT PHONE: (920) 929-1013 MOBILE: (920) 410-5104 EMAIL: cb1461@att.com

#### COMMUNICATIONS

WINDSTREAM COMMUNICATIONS 314 NORTH DANZ AVENUE GREEN BAY, WI 54302-3526 ATTN: ERIC BECKER MOBILE: (920) 461-9825 EMAIL: Eric.Becker@windstream.com **DNR AREA LIAISON** 

WISCONSIN DEPT. OF NATURAL RESOURCES NORTHEAST REGION HQ 2984 SHAWANO AVENUE GREEN BAY, WI 54313-6727 ATTN: JEREMIAH SCHIEFELBEIN PHONE: (920)-360-3784 EMAIL: Jeremiah.Schiefelbein@wisconsin.gov



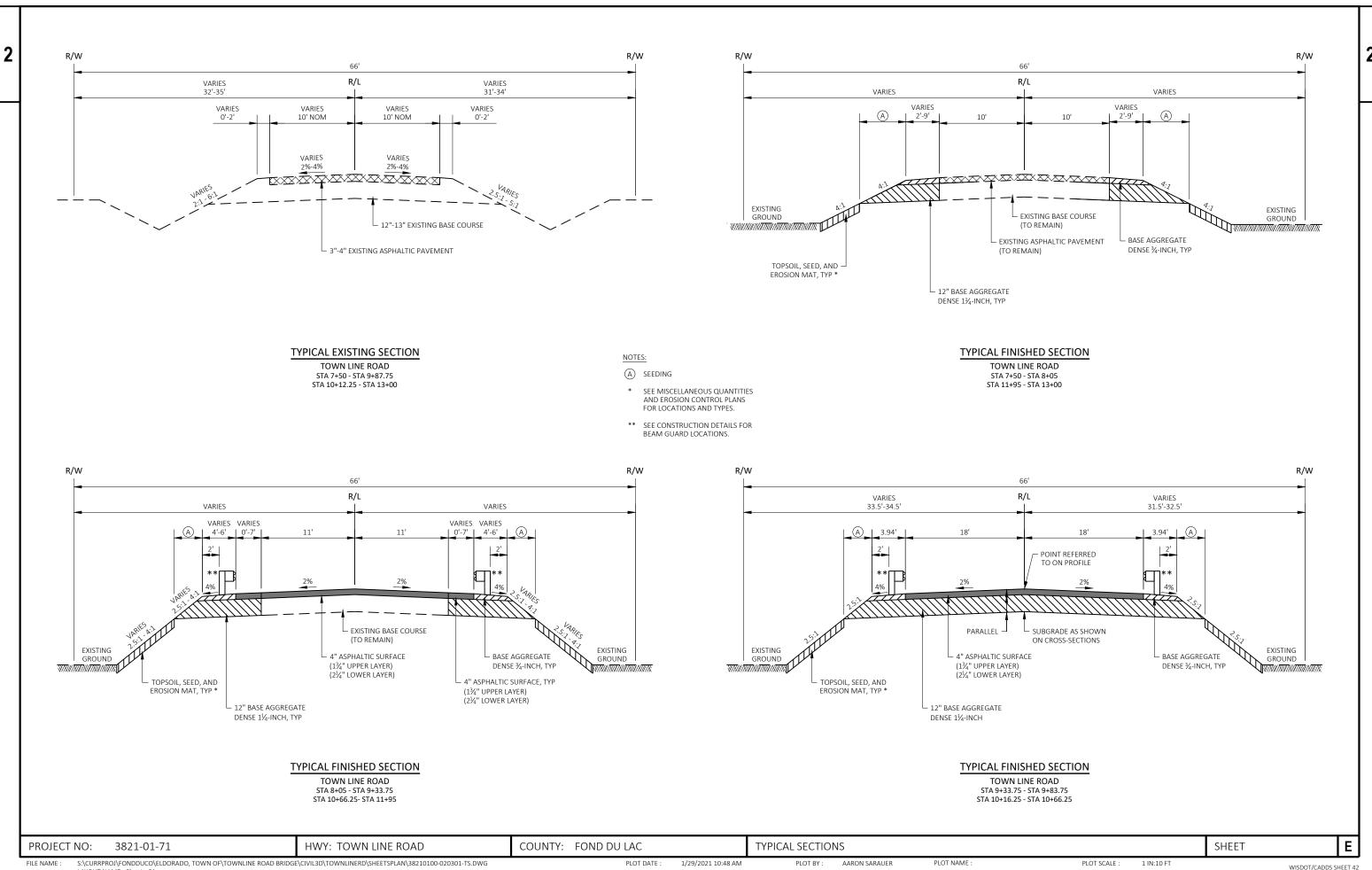
#### **RUNOFF COEFFICIENT TABLE**

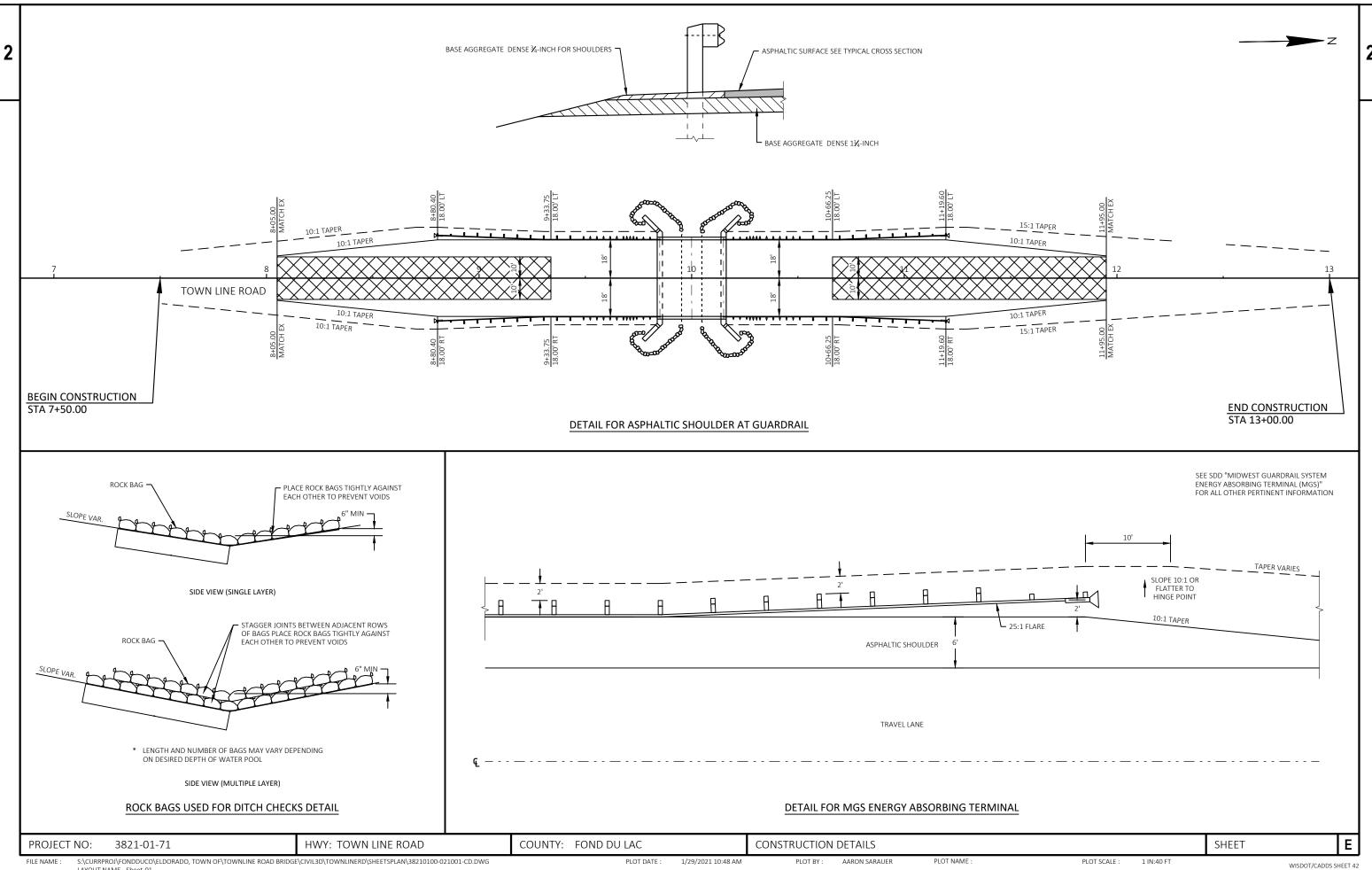
		HYDROLOGIC SOIL GROUP										
	A B				С			D				
	SLO	OPE RANGE	E (PERCENT)	SLO	OPE RANG	E (PERCENT)	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37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

TOTAL PROJECT AREA = 1.229 ACRES

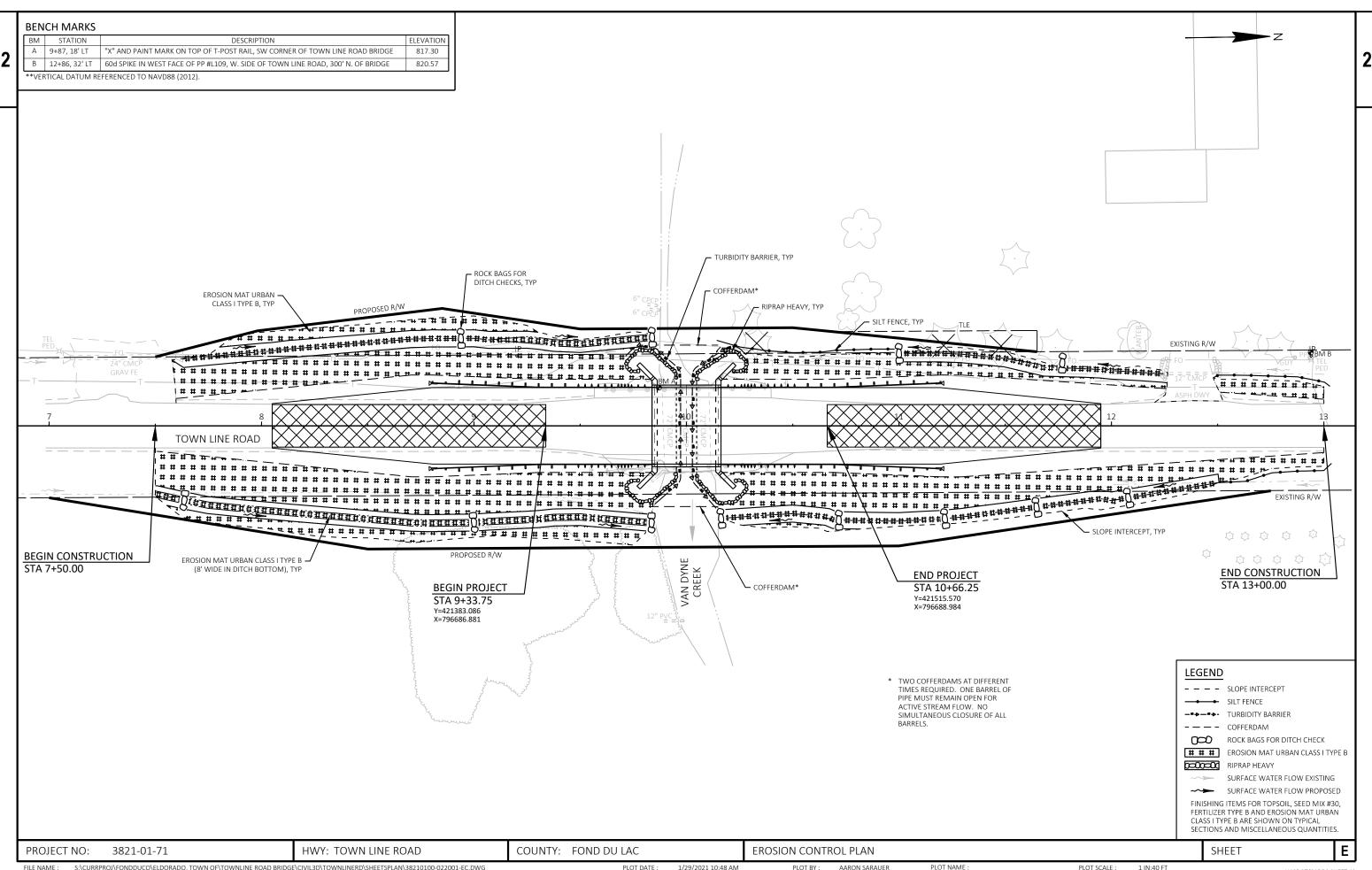
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.786 ACRES

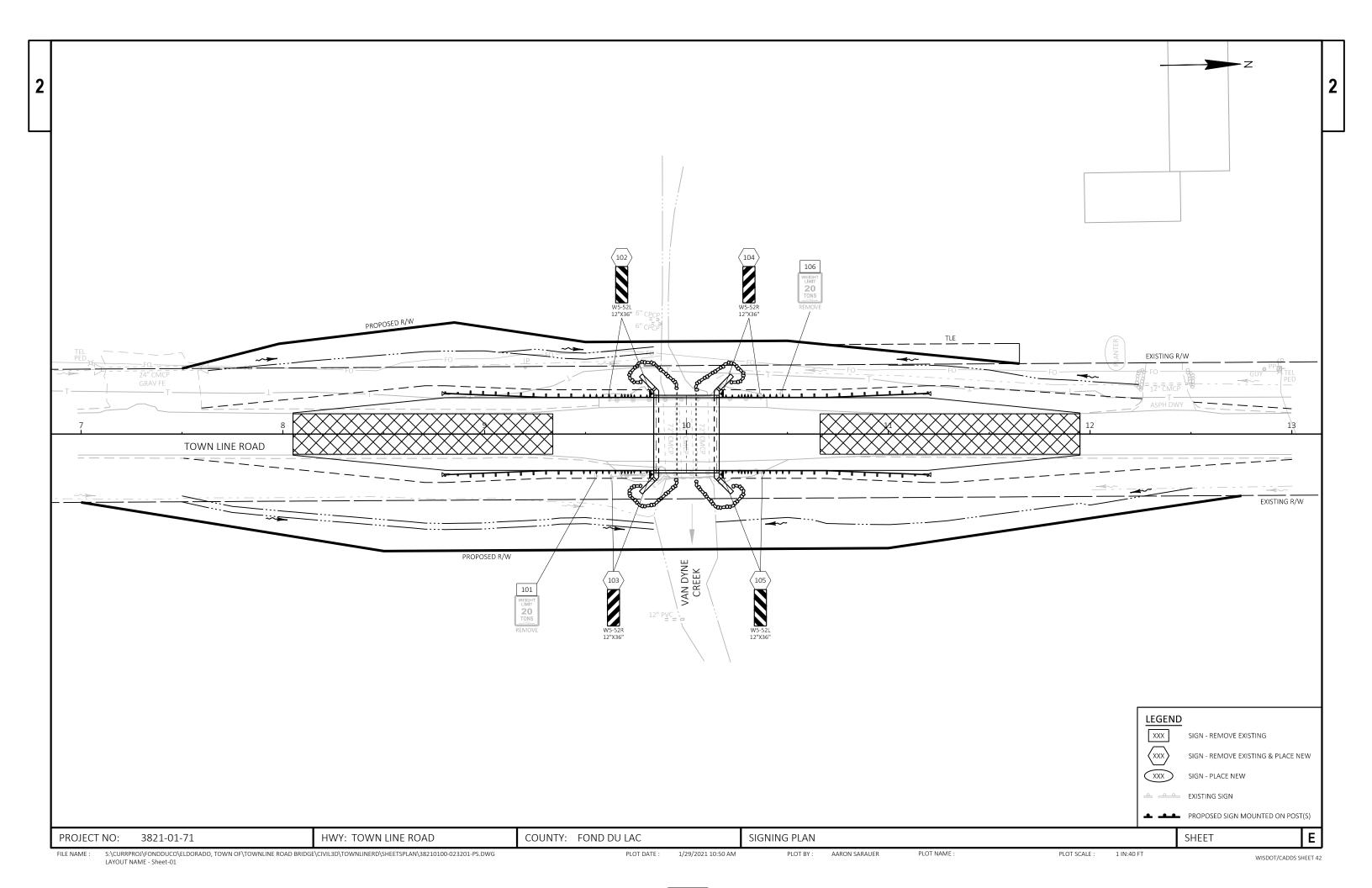
HWY: TOWN LINE ROAD COUNTY: FOND DU LAC **GENERAL NOTES SHEET** Ε PROJECT NO: 3821-01-71 PLOT SCALE: FILE NAME : PLOT BY:





LAYOUT NAME - Sheet-01





			-		
3821	_ (	۱1		71	
- 202	-(	, ,	-	/	

## Page 2

#### **Estimate Of Quantities**

2	821	1 (	١1	- ا	71
	$\sim$	ı –ı		- /	, ,

					3021-01-71
Line	Item	Item Description	Unit	Total	Qty
0800	628.7560	Tracking Pads	EACH	2.000	2.000
0082	628.7570	Rock Bags	EACH	225.000	225.000
0084	629.0210	Fertilizer Type B	CWT	1.600	1.600
0086	630.0130	Seeding Mixture No. 30	LB	50.000	50.000
8800	630.0500	Seed Water	MGAL	64.000	64.000
0090	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0092	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0094	638.2602	Removing Signs Type II	EACH	6.000	6.000
0096	638.3000	Removing Small Sign Supports	EACH	6.000	6.000
0098	642.5001	Field Office Type B	EACH	1.000	1.000
0100	643.0420	Traffic Control Barricades Type III	DAY	1,050.000	1,050.000
0102	643.0705	Traffic Control Warning Lights Type A	DAY	1,800.000	1,800.000
0104	643.0900	Traffic Control Signs	DAY	1,050.000	1,050.000
0106	643.5000	Traffic Control	EACH	1.000	1.000
0108	645.0111	Geotextile Type DF Schedule A	SY	120.000	120.000
0110	645.0120	Geotextile Type HR	SY	210.000	210.000
0112	646.1020	Marking Line Epoxy 4-Inch	LF	2,530.000	2,530.000
0114	650.4500	Construction Staking Subgrade	LF	518.000	518.000
0116	650.5000	Construction Staking Base	LF	518.000	518.000
0118	650.6500	Construction Staking Structure Layout (structure) 01. B-20-244	LS	1.000	1.000
0120	650.9910	Construction Staking Supplemental Control (project) 01. 3821-01-71	LS	1.000	1.000
0122	650.9920	Construction Staking Slope Stakes	LF	518.000	518.000
0124	690.0150	Sawing Asphalt	LF	40.000	40.000
0126	715.0502	Incentive Strength Concrete Structures	DOL	876.000	876.000

#### **CLEARING AND GRUBBING ITEMS**

TOTALS 3

3

#### REMOVING ASPHALTIC SURFACE

		204.0110
STATION - STATION	LOCATION	SY
CATEGORY CODE 0010		
,		
8+05 - 9+34	LT & RT	292
10+66 - 11+95	LT & RT	298
	TOTAL	590

#### REMOVING GUARDRAIL

		204.0165
STATION - STATION	LOCATION	LF
CATEGORY CODE 0010		
0.64 40.20	1.7	70
9+61 - 10+38	LT	78
9+62 - 10+38	RT	78
	TOTAL	156

#### **COFFERDAMS**

	206.5000
LOCATION	LS
CATEGORY CODE 0010	
01. P-20-0910 UPSTREAM	1
02. P-20-0910 DOWNSTREAM	1

TOTAL 2

#### **EARTHWORK SUMMARY**

DIVISION	FROM/TO STATION	LOCATION	(	ON COMMON (1) 205.0100	SALVAGED/ UNUSABLE PAVEMENT MATERIAL (3)	AVAILABLE MATERIAL (4)	UNEXPANDED FILL	EXPANDED FILL (5)	MASS ORDINATE +/- (6)	BORROW	COMMENT:
				EBS						ITEM	
			CUT	EXCAVATION				FACTOR		#208.0100	
			(2)					1.30			
DIVISION 1											
	7+00 - 13+00	TOWN LINE	665	0	43	622	847	1101	-480	480	
	DIVISIO	N 1 SUBTOTAL	665	0	43	622	847	1101	-480	480	
GRAND TOTAL		665	0	43	622	847	1101	-480	480		
TOTAL EXCAVATION COMMON		6	65		•						

#### NOTES:

- 1 COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS
- 2 SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- 3 SALVAGED/UNUSABLE PAVEMENT MATERIAL = LENGH \* TYPICAL WIDTH \* TYPICAL DEPTH
- 4 AVAILABLE MATERIAL = CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL
- 5 EXPANDED FILL = UNEXPANDED FILL \* FILL FACTOR
- 6 THE MASS ORDINATE + OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

#### **BASE AGGREGATE DENSE AND WATER ITEMS**

		305.0110 BASE AGGREGATE DENSE 3/4-INCH	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH	624.0100 WATER
STATION - STATION	LOCATION	TON	TON	MGAL
CATEGORY CODE 00	10			
7+50 - 9+84 10+16 - 13+00	LT & RT LT & RT	85 95	525 565	9 9
	TOTALS	180	1.090	18

BASE AGGREGATE DENSE 3/4-INCH WEIGHT CALCULATIONS BASED ON 2.1 TONS/CY.
BASE AGGREGATE DENSE 1 1/4-INCH WEIGHT CALCULATIONS BASED ON 2.0 TONS/CY.

#### **ASPHALTIC ITEMS**

		455.0605 TACK COAT	465.0105 ASPHALTIC SURFACE
STATION - STATION	LOCATION	GAL	TON
CATEGORY CODE 0010			
8+05 - 9+84	LT & RT	34	154
10+16 - 11+95	LT & RT	34	154
	TOTALS	68	308

TACK COAT CALCULATIONS BASED ON 0.050 GAL/SY ASPHALTIC SURFACE WEIGHT CALCULATIONS BASED ON 112 LB/SY/IN.

#### **MGS GUARDRAIL ITEMS**

		614.2300 MGS GUARDRAIL 3	614.2500 MGS THRIE BEAM TRANSITION	614.2610 MGS GUARDRAIL TERMINAL EAT
STATION - STATION	LOCATION	LF	LF	EACH
CATEGORY CODE 001	10			
8+80 - 9+85 10+15 - 11+20	LT & RT LT & RT	25.0 25.0	78.8 78.8	2.0 2.0
	TOTALS	50.0	157.6	4.0

ALL ITEMS ARE CATEGORY CODE 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 3821-01-71 HWY: TOWN LINE ROAD COUNTY: FOND DU LAC MISCELLANEOUS QUANTITIES SHEET E

FILE NAME : 38210100-030201-mq.ppt PLOT DATE: 01/29/2021 11:31 AM PLOT BY : gaajs PLOT SCALE : NTS

SHEET

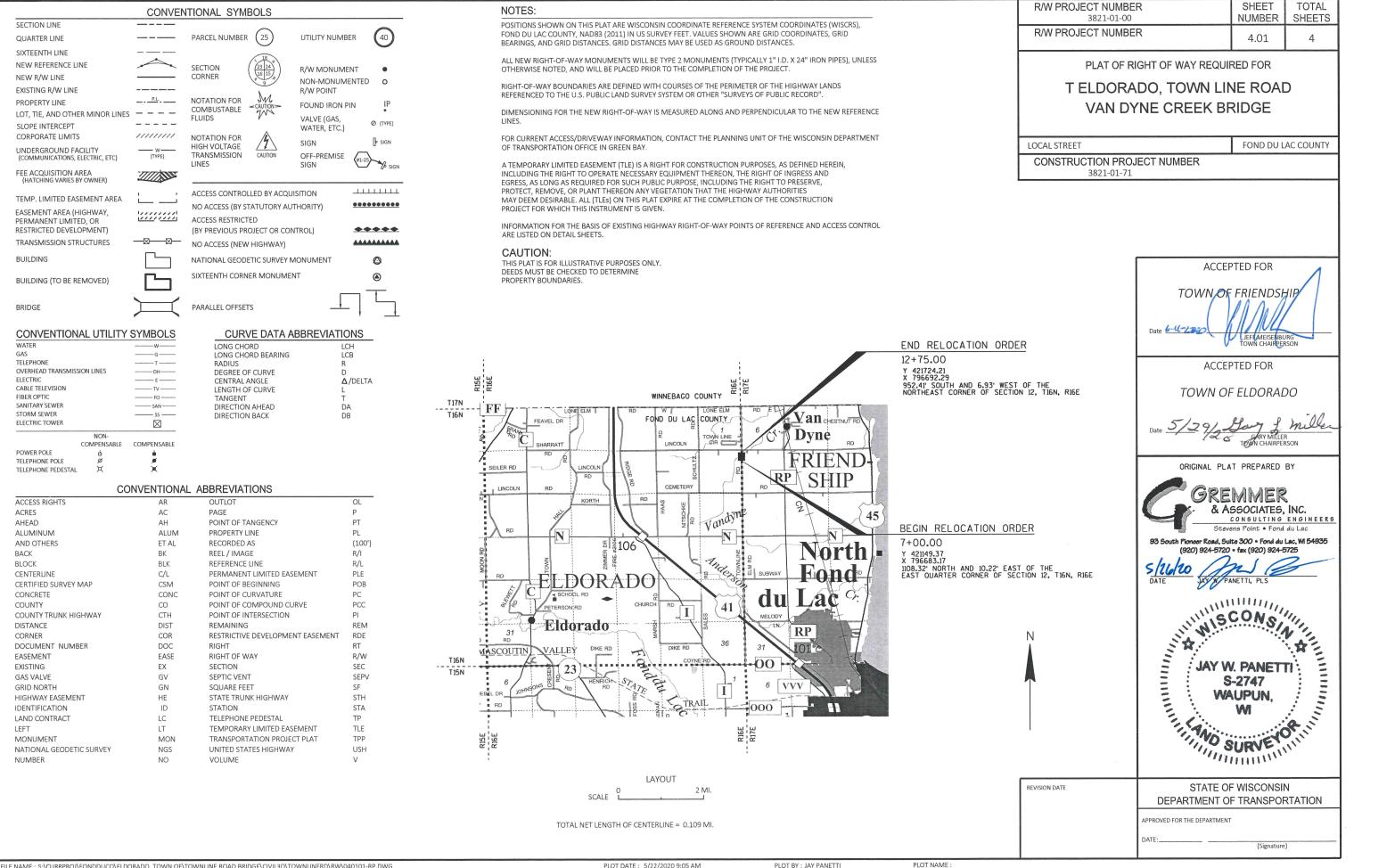
	RESTORATION ITEMS										EROSION CONTROL ITEMS													
					625.010 TOPSOII		MAT FER ASSI T	.0210 TILIZER 'PE B	630.0130 SEED MIX NO. 30	630.056 SEED WATE	)					(	528.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCI	628.1905 MOBILIZATION EROSION E CONTROL	NS MOB EMERGI	28.1910 SILIZATIONS ENCY EROSION ONTROL	628.6005 TURBIDITY BARRIERS		628.7570 ROCK BAGS
		STATION -		LOCATION	SY	SY		CWT	LB	MGAL	<u>L</u>				STATION DRY CODE 0010	LOCATION	LF	LF	EACH		EACH	SY	EACH	EACH
	_	7+50 -		LT & RT	1,152	1,152	(	0.8	25	31	<del></del>			<u> </u>	CT3821-01-71				5		3		2	
		10+16 - UNDISTF		LT & RT	590 438	590 438		0.5 0.3	16 9	20 13					+64 - 9+84 +94 - 9+84	RT LT		 			 			45 30
	_										<del></del>			9+	+71 - 9+97 +03 - 10+28	LT & RT LT & RT						67 66		
				TOTALS	•			1.6	50	64				10+	+14 - 13+00	LT	143	 143						30
			NOTES:	DO NOT APP	'LY FERTILIZ	ER WITHIN 20 F	EET OF A BOD	Y OF WATE	ER OR WETL	AND					+14 - 13+00 DISTRIBUTED	RT	55 47	55 47				 32		75 45
																TOTALS	245	245	5		3	165	2	225
				<u>s</u>	SIGNING ITEMS													TRAFFIC CONTROL ITEMS						
	SIGN	EXISTING	EXISTING	PROPOSED	PROPOSED	SIGN	634.061 POSTS WOOD 4X6X1	SIG TYP	NS REN	MOVING SIGNS	638.3000 REMOVING SMALL SIGN SUPPORTS							NUMBER OF	643.0420 TRAFFIC CONTROL BARRICADES	TRA CON WAF	.0705 AFFIC ITROL RNING	643.0900 TRAFFIC CONTROL SIGNS	TRA	5000 AFFIC TROL
				STATION	LOCATION	CODE SI	'E EACH	SI	F E	ACH	EACH							NUMBER OF DAYS IN	NO. TOTAL	NO.	TOTAL	NO. TOTA		
		9+56	RT							1	1			CA	LOC TEGORY CODE 0	O10		SERVICE	REQ'D DAY	REQ'D	DAY	<i>REQ'D</i> DAY	' EA	iCH
	101 102	9+56	LT	 9+83	LT	 W5-52L 12>		3	- }	1	1				PROJECT	3821-01-71					_		:	 1
	103	9+63	RT	9+83	RT	W5-52R 12		3		1	1			Т	OWN LINE ROAI	D / CEMETER' OJECT LIMITS		75 75	2 150 5 375	<i>4</i> 8	300 600	<ul><li>3 225</li><li>4 300</li></ul>		
	104 105	10+36 10+37	LT RT	10+17 10+17	LT RT	W5-52R 12> W5-52L 12>		3		1	1				NORTH PR	OJECT LIMITS	5	75	5 375 5 375	8	600	4 300		
	106	10+37	LT							1	1				TOWN LINE ROA	AD / LINCOLN	ROAD	75	2 150	4	300	3 225	-	 
						TOTAL	i 4	12	2	6	6							TOTALS	1,050		1,800	1,050	0 :	1
MARKING LINE EPOXY 4-INCH									CONSTRUCT	ION STAKI	NG ITEMS							SAW	ING ASPHAL	<u>.T</u>				
	AOITATS	I STATION	LOCATION	646.1020 WHITE YELI	LOW							650.4500 SUBGRADE	650.5000 BASE	STRUCTURE	650.9910 SUPPLEMENT	TAL SLO	PE				ATION GORY CODE 00	LOCATION	<b>690.015</b> LF	0
	CATEGO	RY CODE 00 - 13+16	10	1,265 1,2	<u> </u>				STATION - S ATEGORY CO		LOCATION	LF	LF	LAYOUT LS	LS LS	STAI LF					8+05 .1+95	LT & RT LT & RT	20 20	<del></del>
				1 205 1 2				P	PROJECT 382 7+50 - 9		LT & RT	 234	 234		1 	 23						TOTAL	40	
			TOTAL	1,265 1,2 <b>2,530</b>	203			_	10+16 - 1		LT & RT	284	284			28						TOTAL	40	
			IUIAL	2,330				_	CATEGORY	CODE 001	10 SUBTOTALS	518	518		1	51	3							
								CA	ATEGORY CO															
									B-20-2			-		1										
									CATEGORY	CODE 002	20 SUBTOTALS			1										

MISCELLANEOUS QUANTITIES

COUNTY: FOND DU LAC

HWY: TOWN LINE ROAD

PROJECT NO: 3821-01-71



# SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

	SHEET		INTEREST	R/W	T.L.E. ACRES		
PARCEL NUMBER	NUMBER	OWNER(S)	REQUIRED	NEW	EXISTING	TOTAL	ТЕМР.
1	4.04	CHRIS J. SCHUMACHER AND SHARON K. SCHUMACHER,	FEE	0.106	0.249	0.355	0
		GLORIA J. SCHUMACHER THE RIGHT TO OCCUPY THE RESIDENCE UPON THE PREMISES FOR AS LONG AS SHE LIVES					
2	4.04	CHRIS J. SCHUMACHER AND SHARON K. SCHUMACHER	FEE	0.004	0.008	0.012	0
3	4.04	BLAIR N. TILLEMAN	FEE, TLE	0.053	0	0.053	0.011
4	4.04	GREGORY A. STREAN AND JULIE A. TEICHMILLER	FEE	0.183	0	0.183	0
101	4.04	WINDSTREAM COMMUNICATIONS, LLC	RELEASE OF RIGHTS				

SHEET 2 OF 4 SHEETS

REVISION DATE

DATE 5/26/2020

GRID FACTOR

SCALE, FEET

HWY: TOWN LINE ROAD COUNTY: FOND DU LAC

12/21/2020 9:04 AM

STATE R/W PROJECT NUMBER 3821-01-00

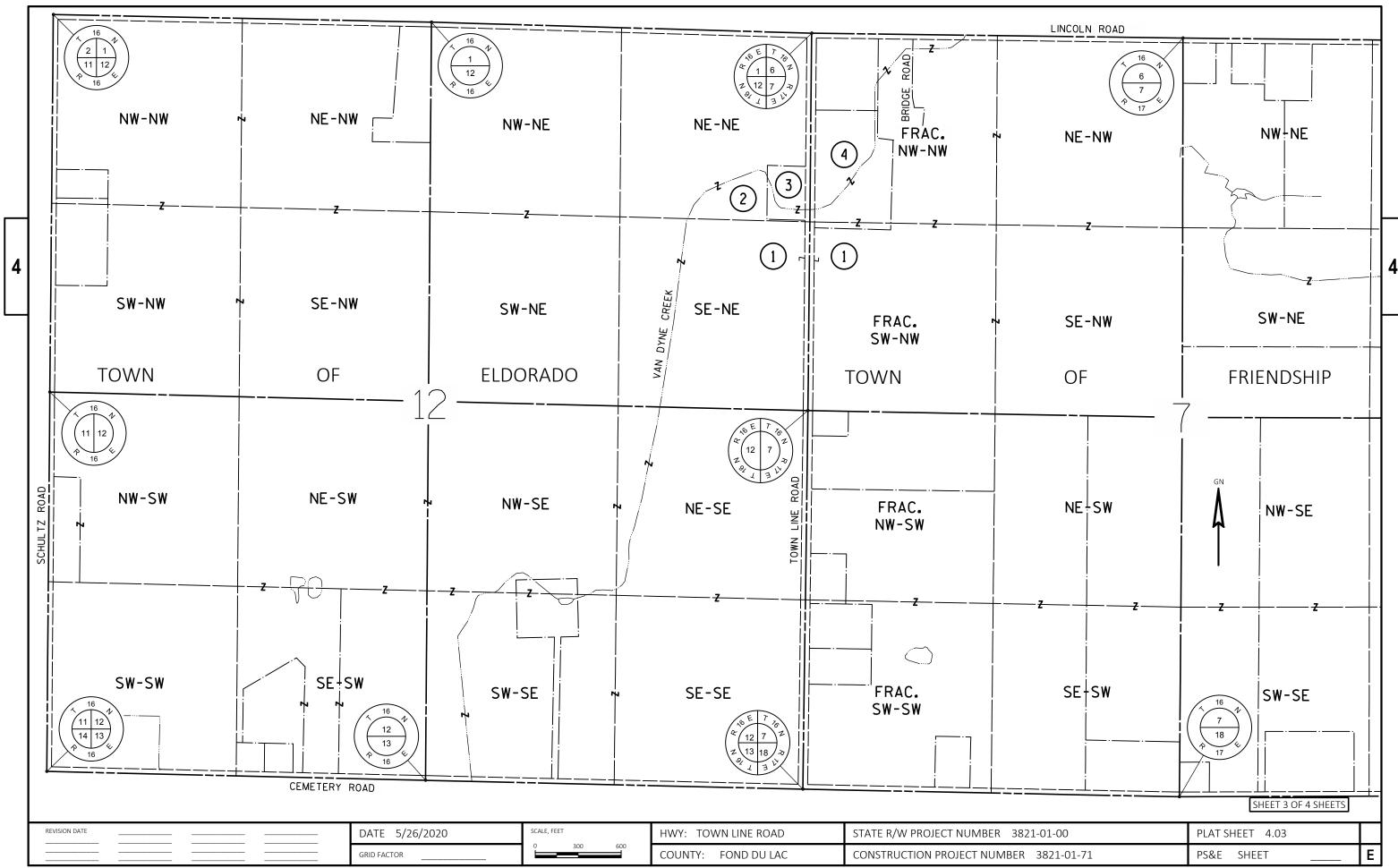
CONSTRUCTION PROJECT NUMBER 3821-01-71

PS&E SHEET

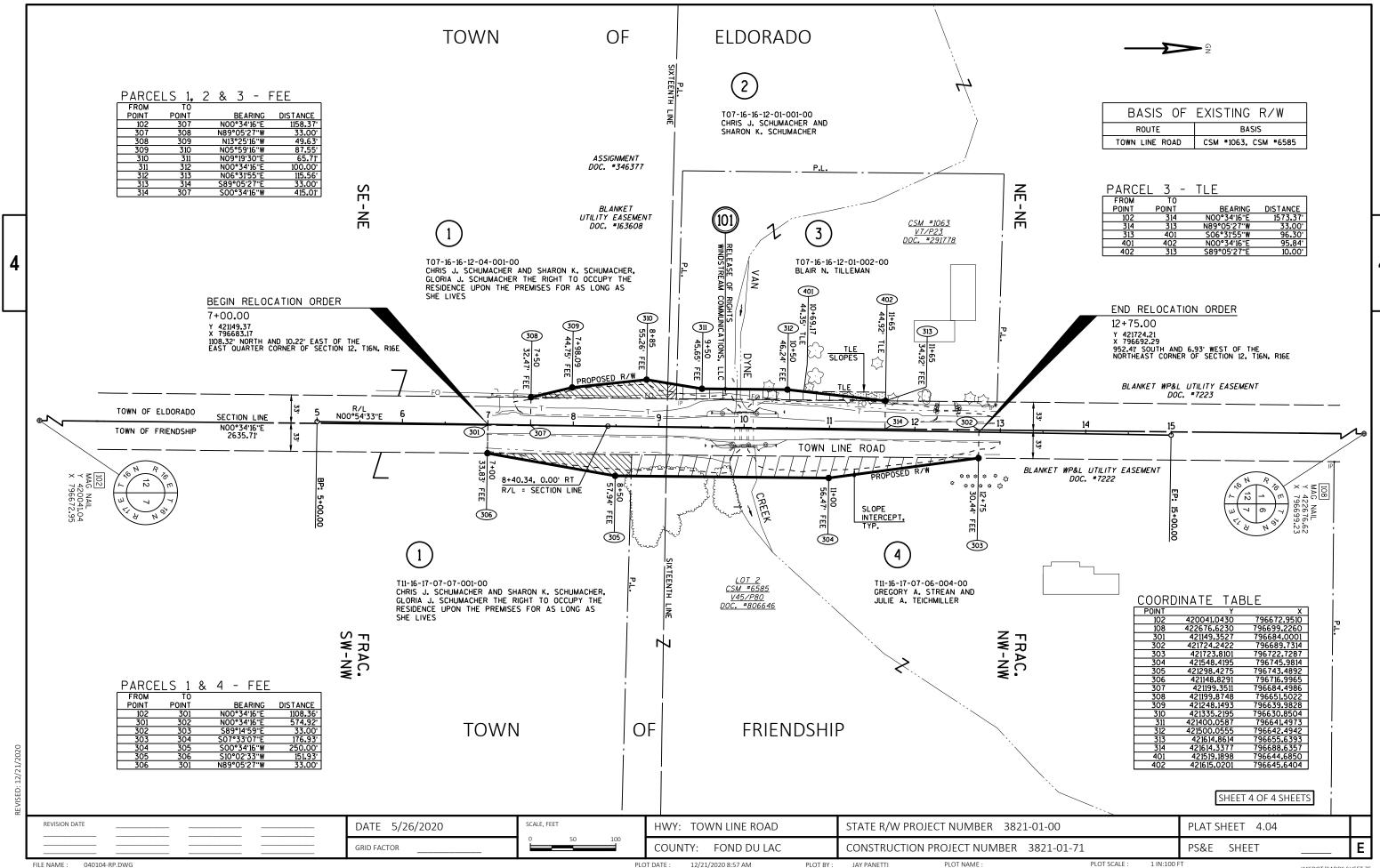
PLAT SHEET 4.02

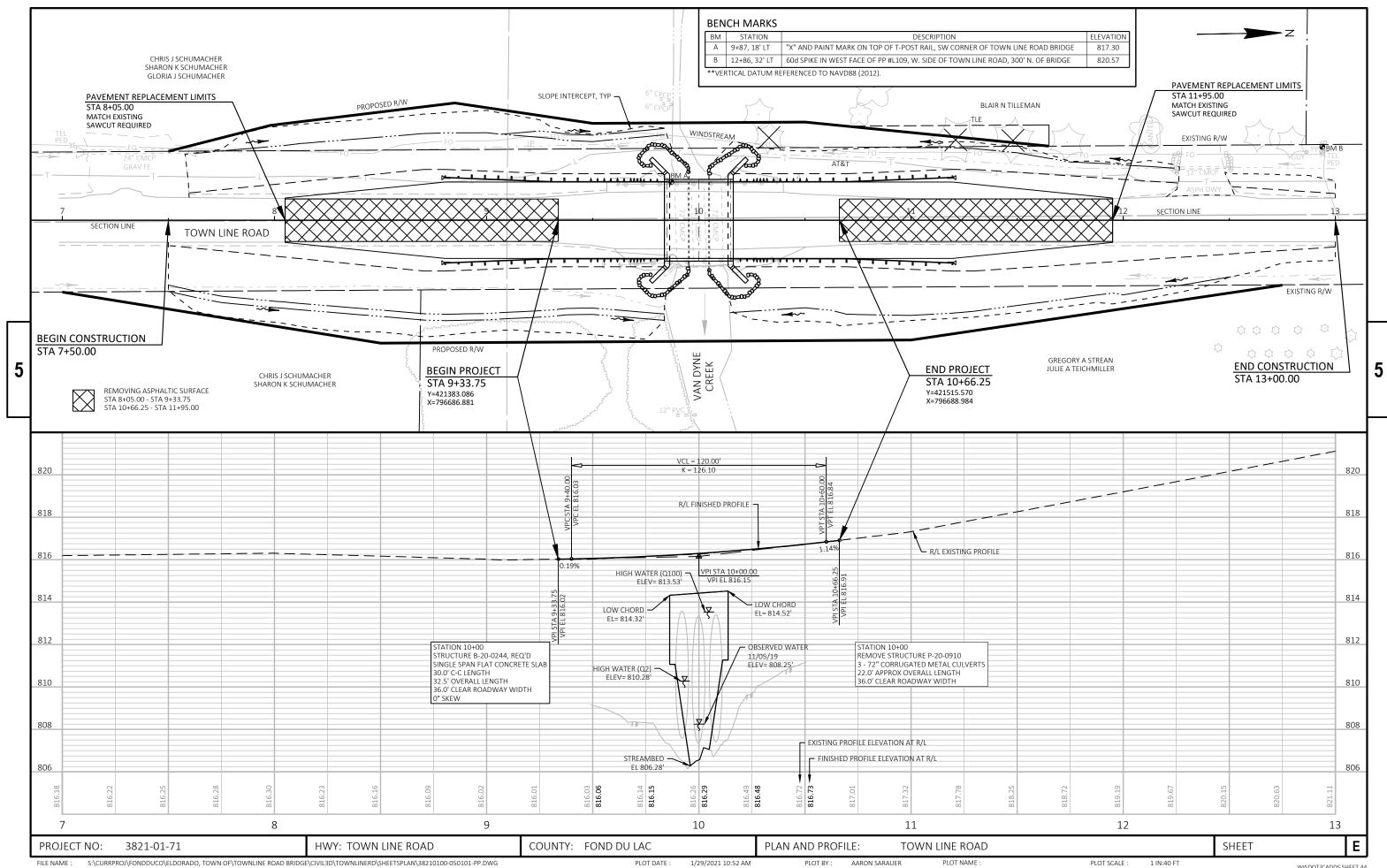
040102-RP.DWG LAYOUT NAME - RW 1 IN 100 FT

PLOT BY: JAY PANETTI



WISDOT/CADDS SHEET 75





## Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
08E14-01	TRACKING PAD
12A03-10	NAME PLATE (STRUCTURES)
14B29-01	SAFETY EDGE
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

## TYPICAL APPLICATION OF SILT FENCE

6

b

Ō

Ш





#### 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

တ  $\infty$ 

6

Ū

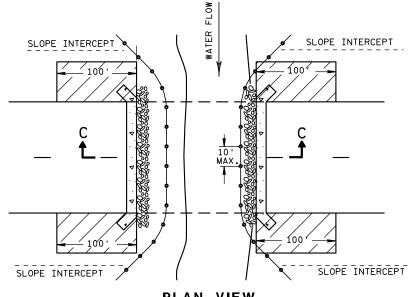
D

#### **GENERAL NOTES**

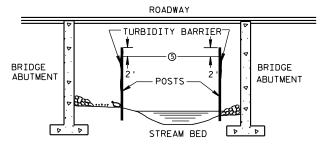
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

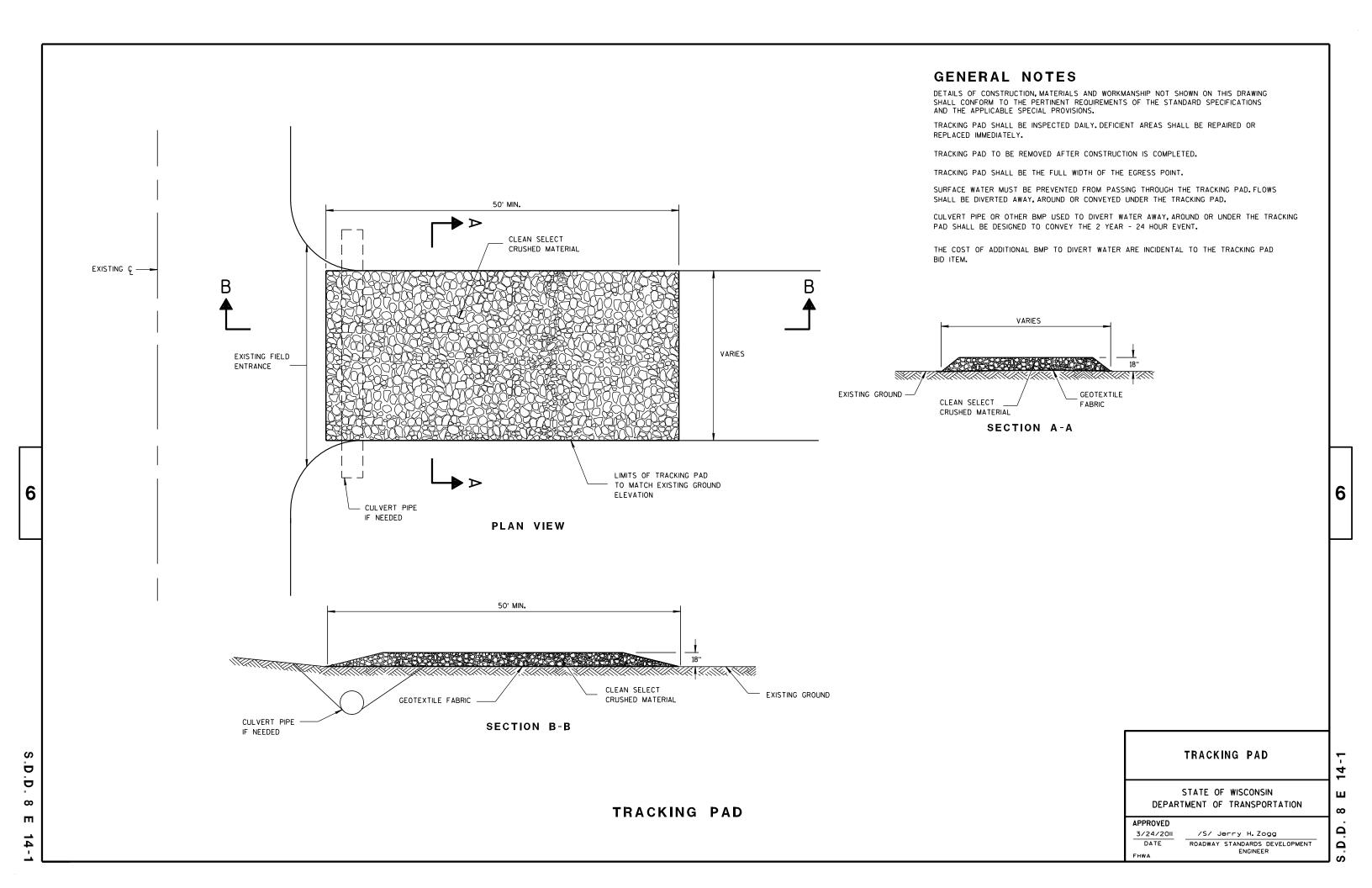
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

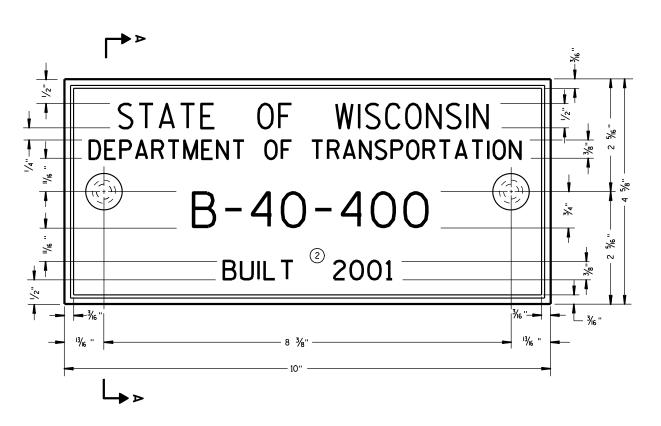
6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

 $\infty$ 

Ω

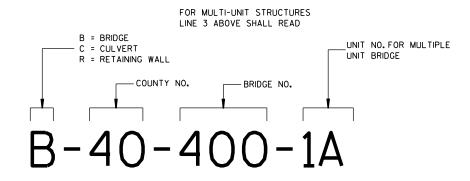






#### TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



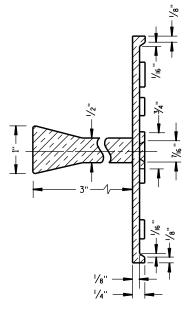
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

#### **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.

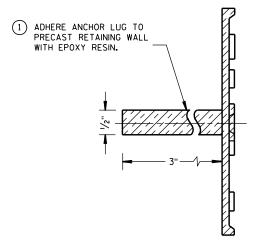
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

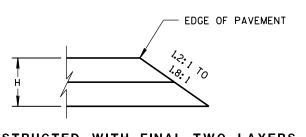
(FOR ATTACHMENT TO PRECAST STRUCTURES)

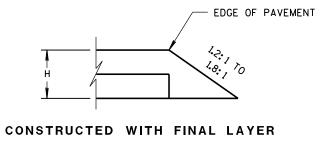
## NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

 D. 12 A 3-10

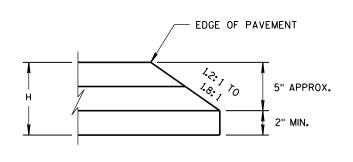


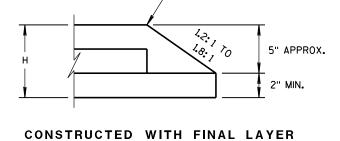


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





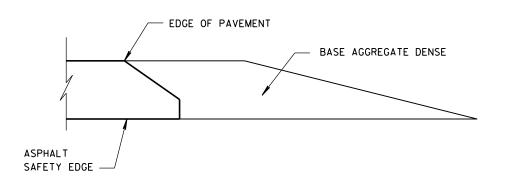
FOR H GREATER THAN 5"

EDGE OF PAVEMENT

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

 $\mathbf{\omega}$ 

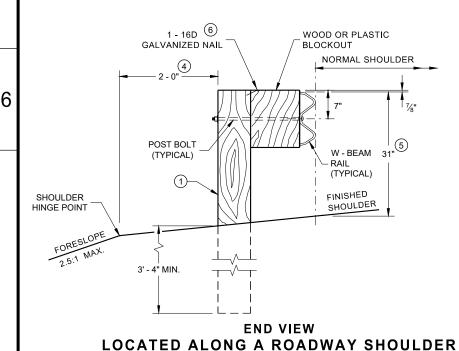
Ω

Ω

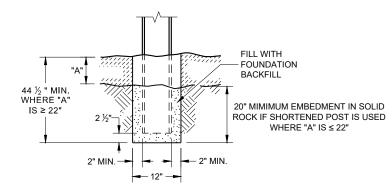
APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

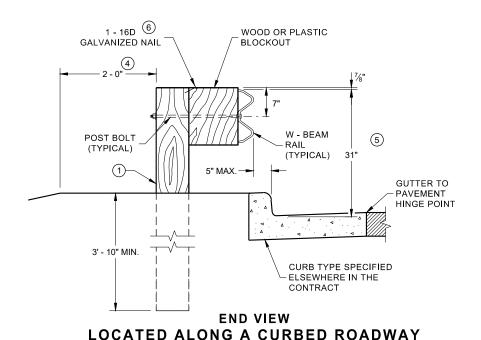
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 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 OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $_{\mbox{\scriptsize (5)}}$  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.

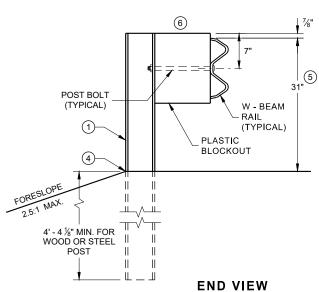


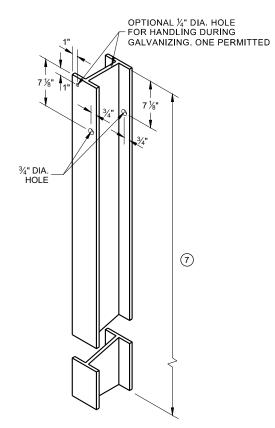
STANDARD INSTALLATION



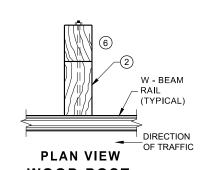
SETTING STEEL OR WOOD POST IN ROCK



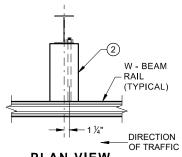




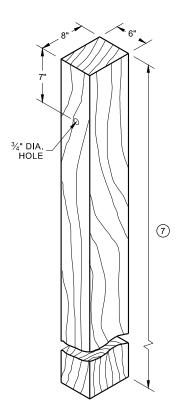
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



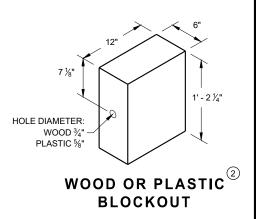
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SD

MGS LONGER POST AT HALFPOST SPACING W BEAM (K)

### **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

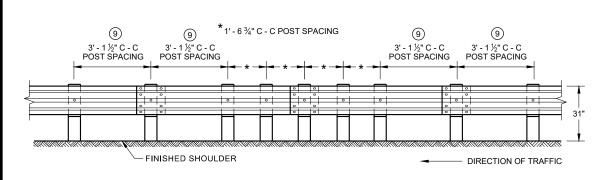
POST SPACING

DIRECTION OF TRAFFIC

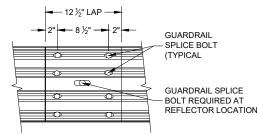
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



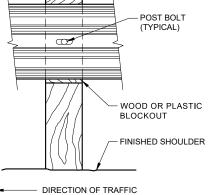
FRONT VIEW **QUARTER POST SPACING (QS)** 



**FRONT VIEW MID-SPAN BEAM SPLICE** 

¾" X 2 ½" POST BOLT

# REFLECTOR LOCATIONS



**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

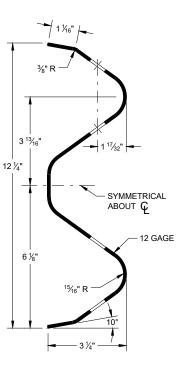
(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS

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

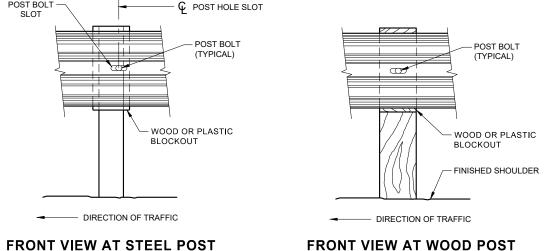
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE

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

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



**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

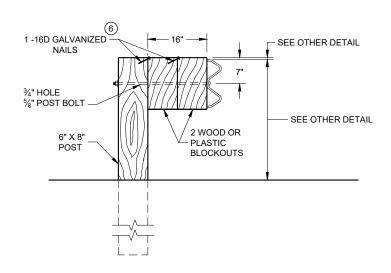
6

**90** 

<u>4</u>

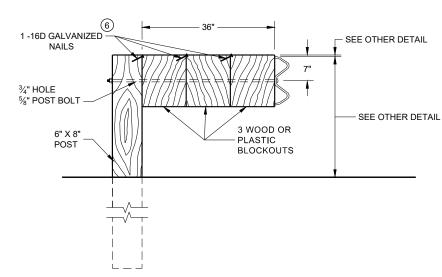
SDD

6



#### **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.



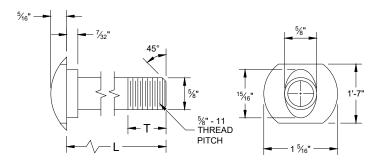
#### **DETAIL FOR 36" BLOCKOUT DEPTH**

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.

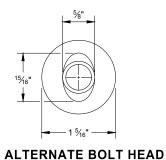
#### NOTE:

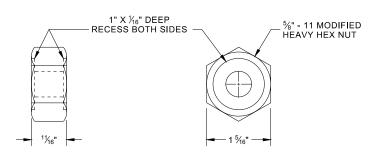
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3/16".
- 2. IF THE BOLT EXTENDS MORE THAN  $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



#### **POST BOLT TABLE**

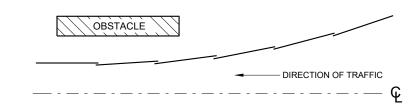
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



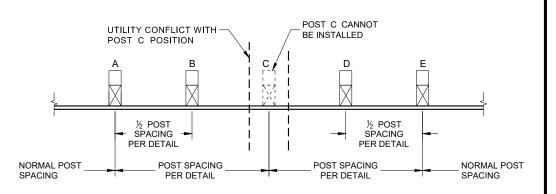


# POST BOLT, SPLICE BOLT AND RECESS NUT

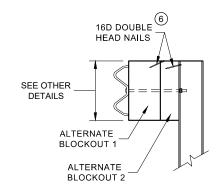
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

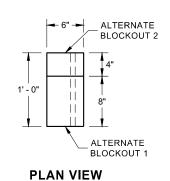


## PLAN VIEW BEAM LAPPING DETAIL



# POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

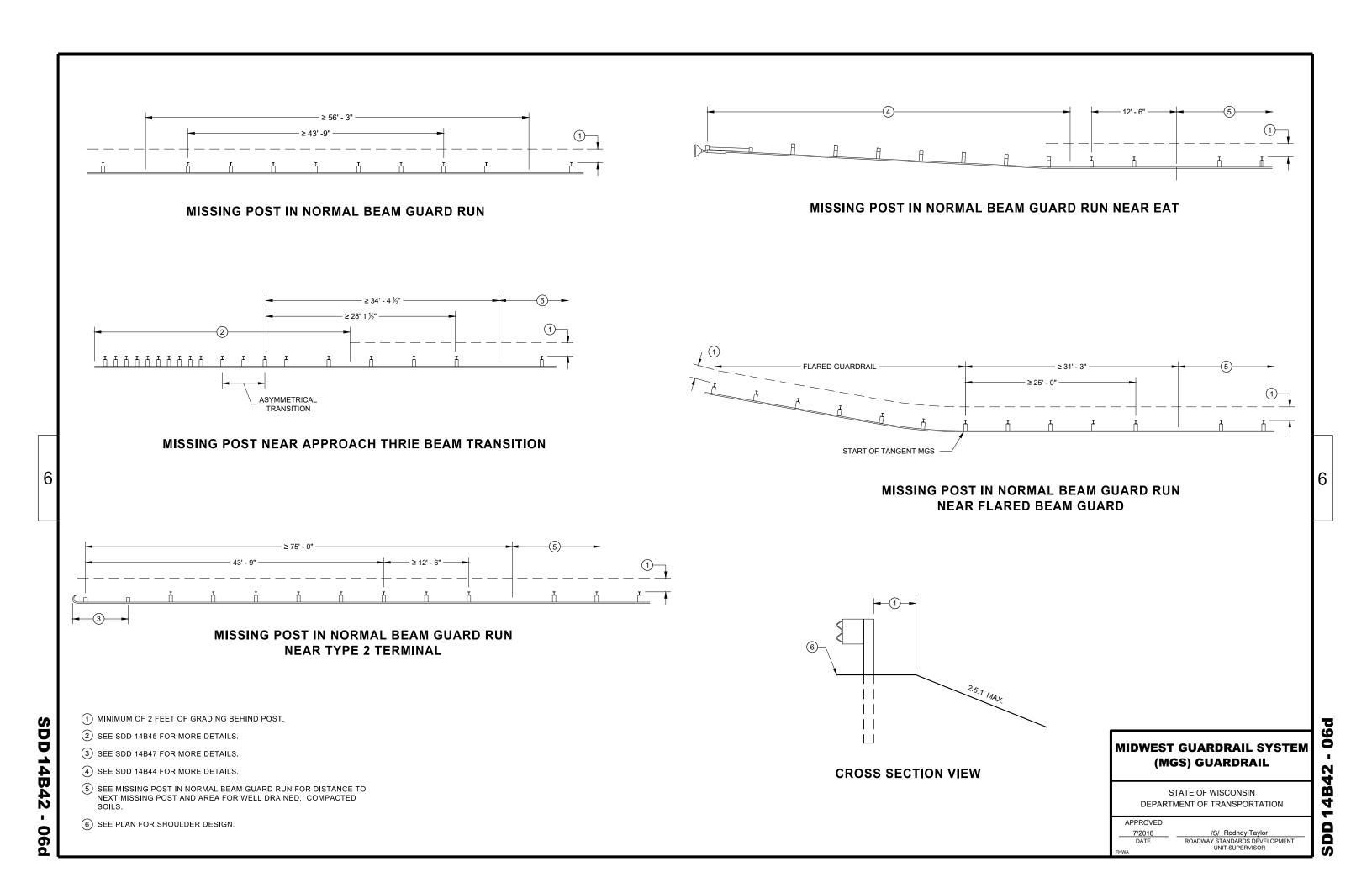
ALTERNATE WOOD BLOCKOUT DETAIL

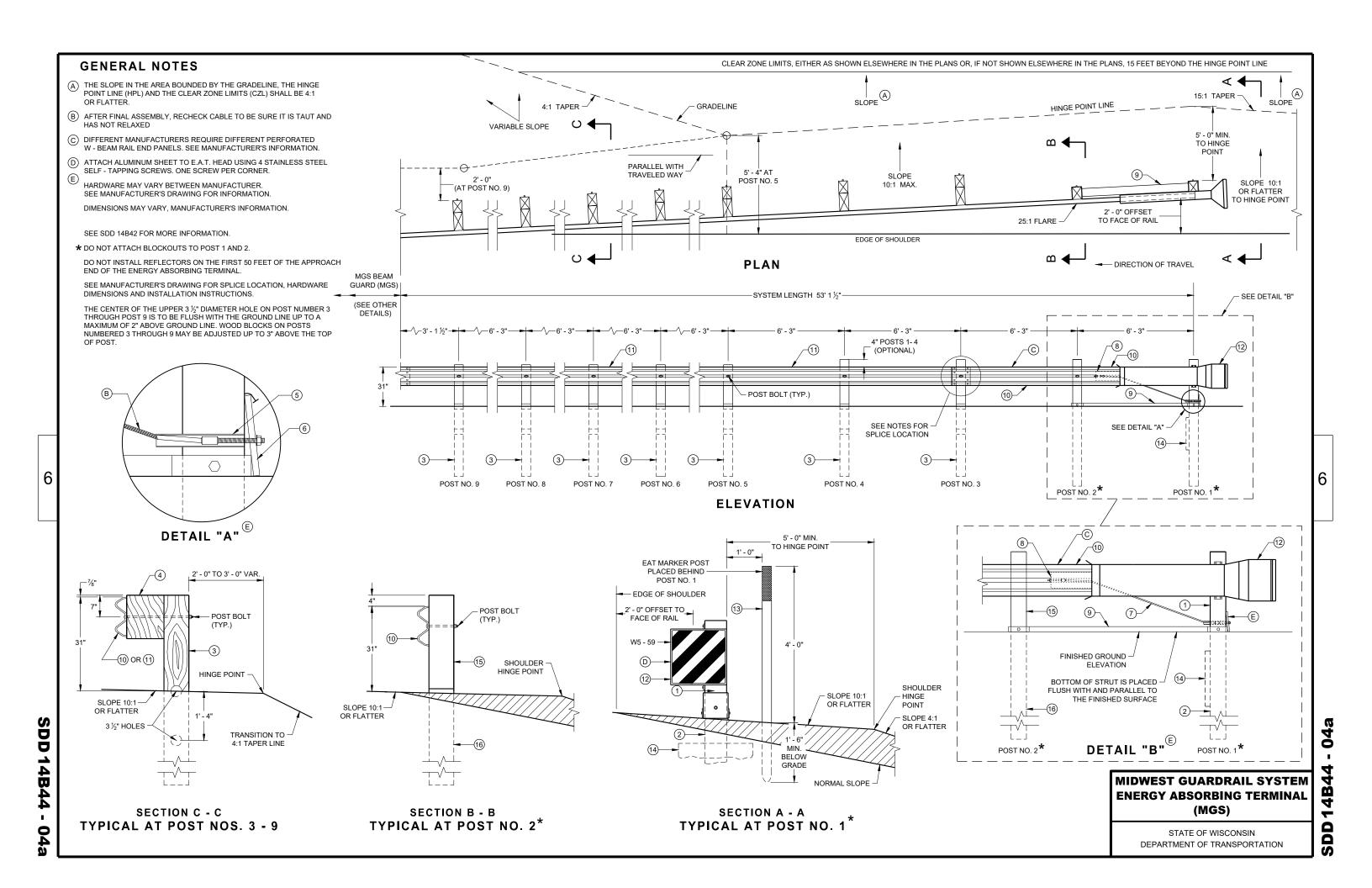
# MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

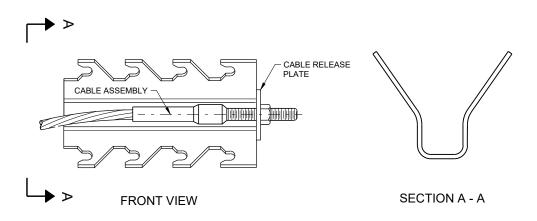
90

SD

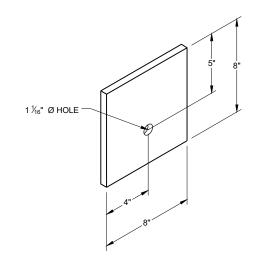
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION







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



BEARING PLATE

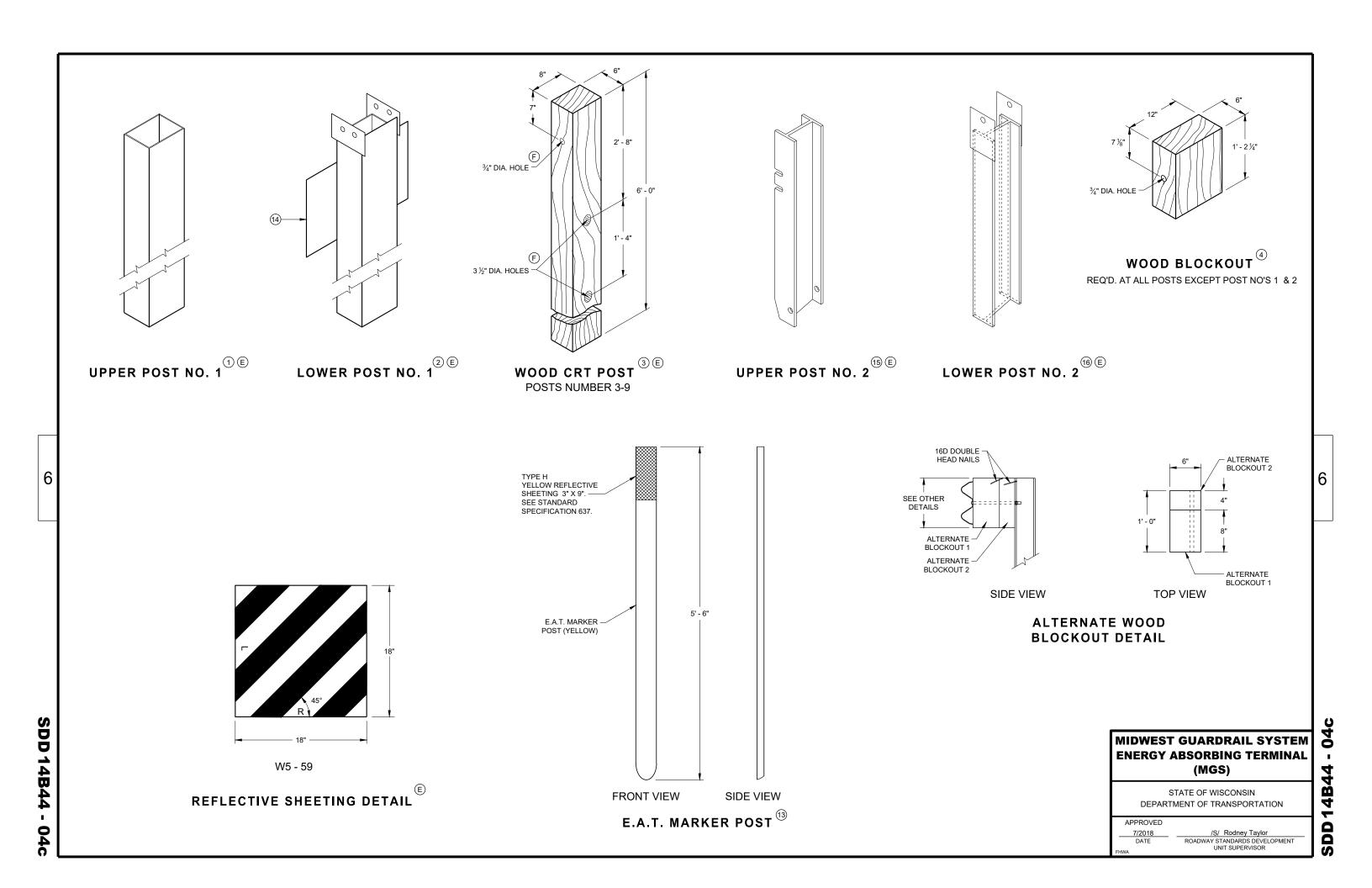
#### MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

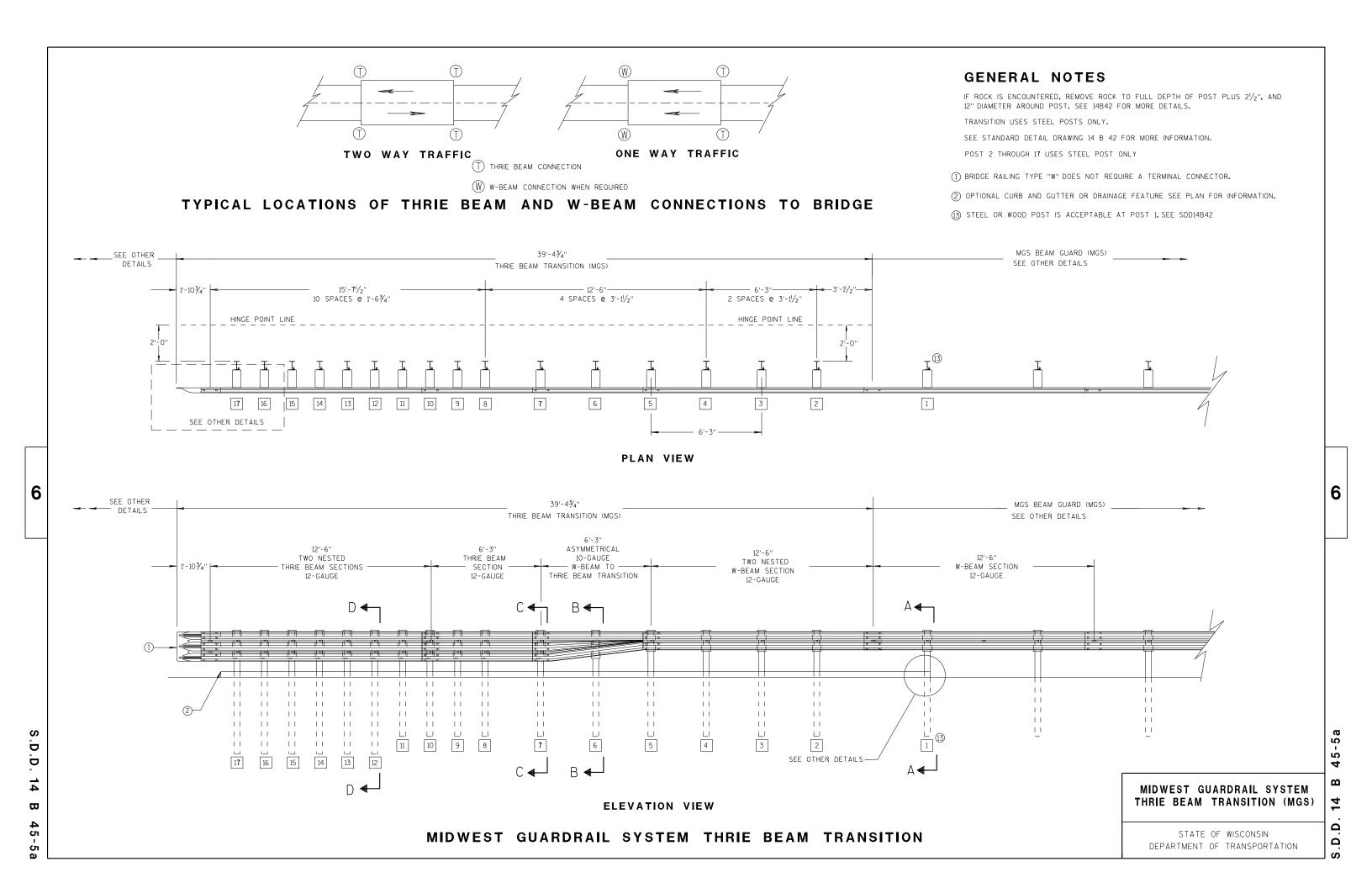
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

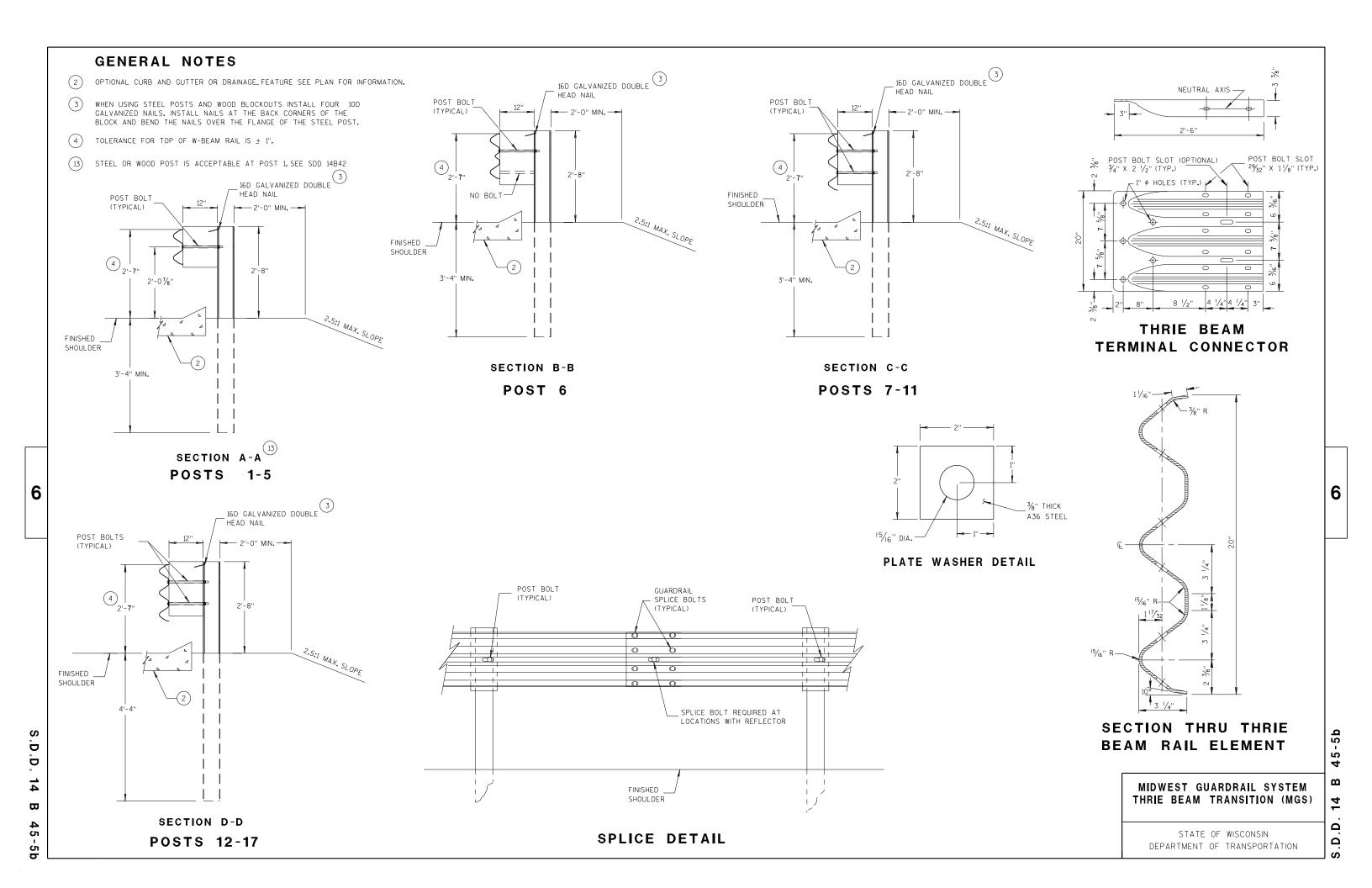
6

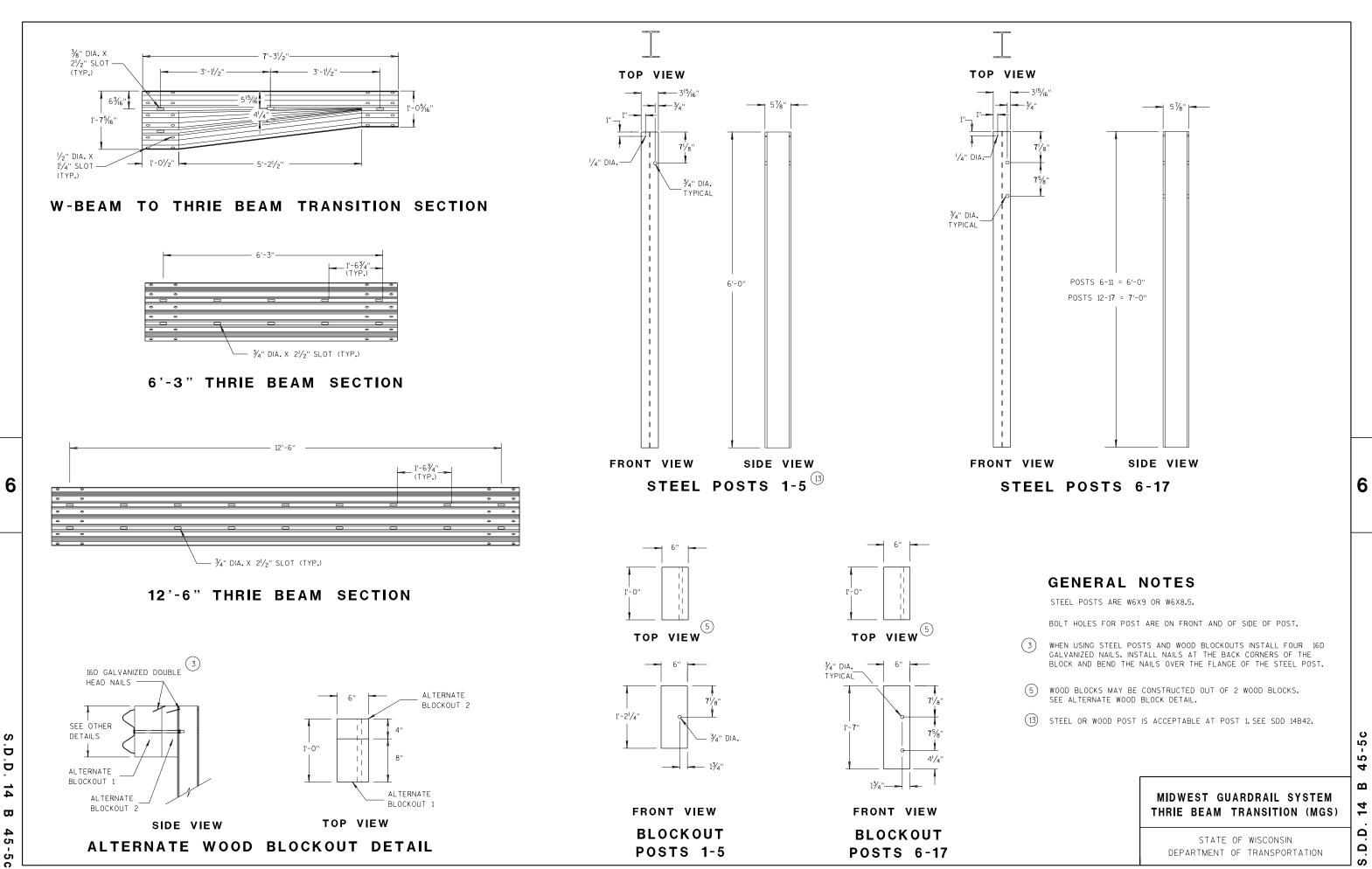
**SDD 14B44** 

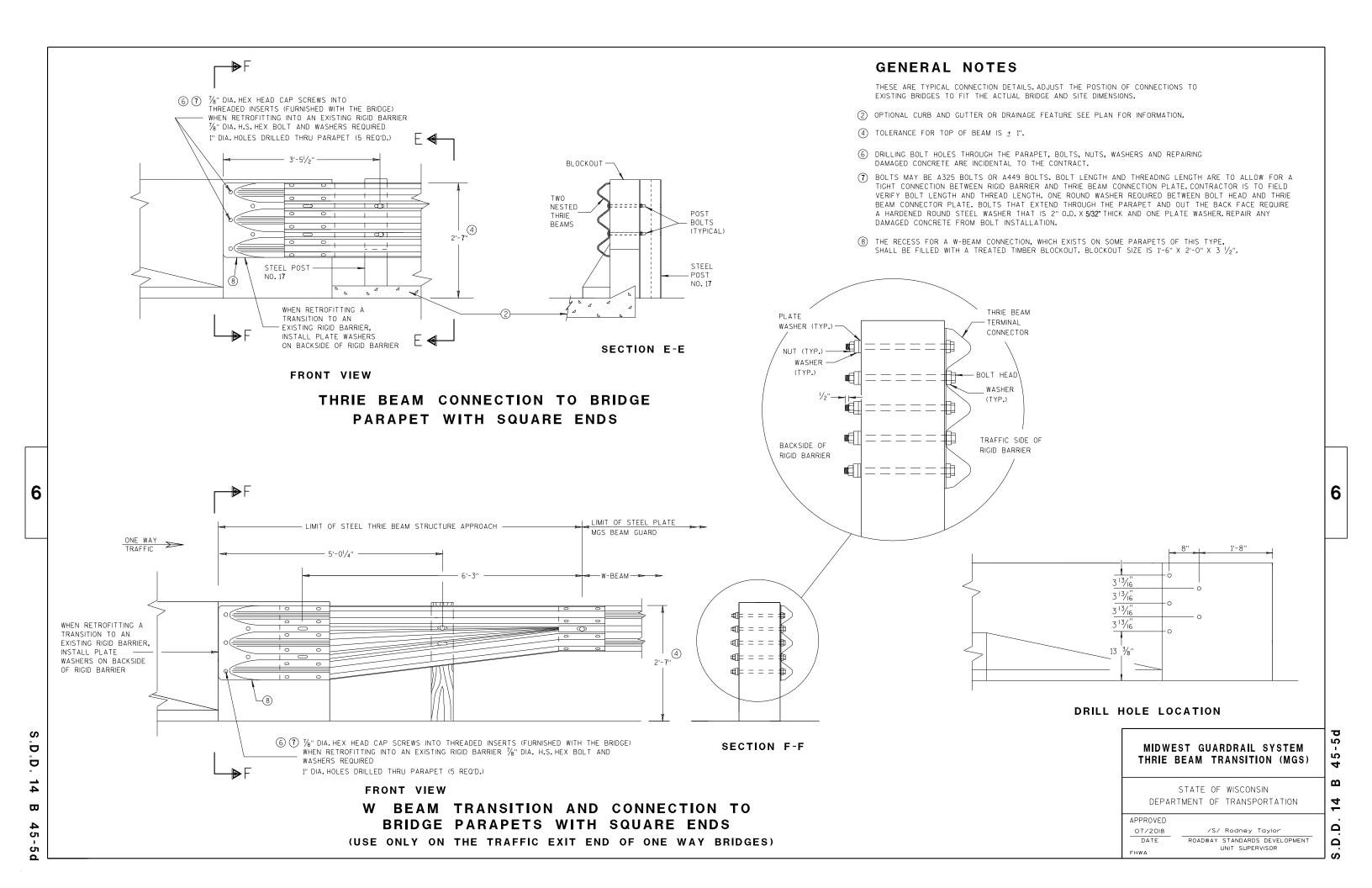
SDD14B44 - 04



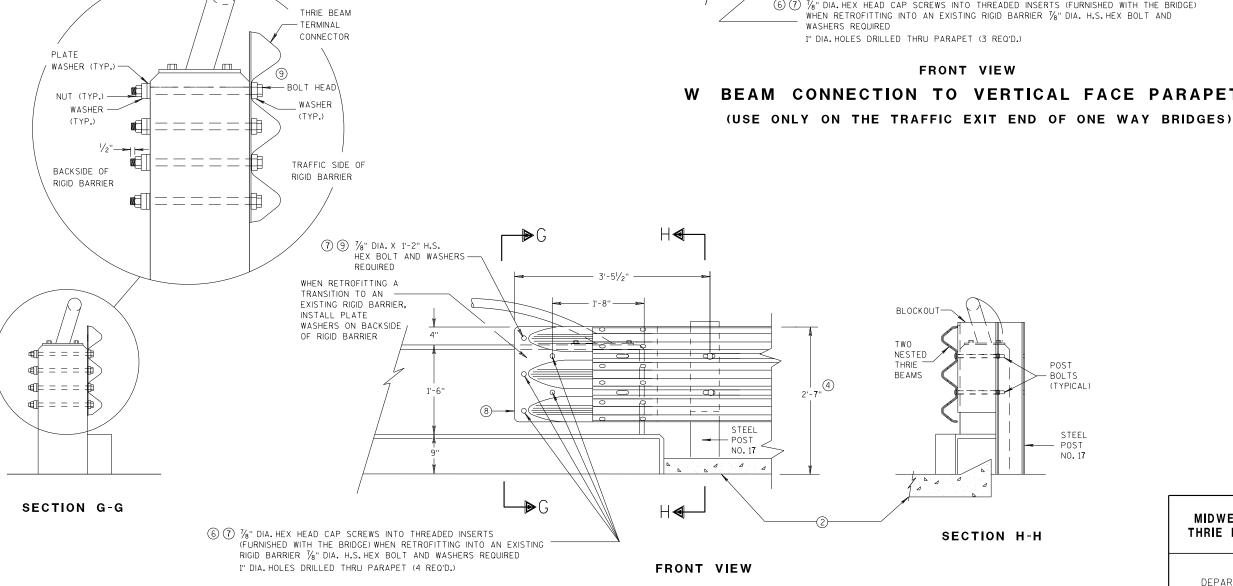








- (2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- (4) TOLERANCE FOR TOP OF BEAM IS ± 1".
- 6 DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- 7 BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE, BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- (8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".
- (9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.



THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

7 7/8" DIA. X 1'-2" H.S.

REQUIRED

HEX BOLT AND WASHERS

5'-0 1/4" ONE WAY
TRAFFIC WHEN RETROFITTING A TRANSITION TO AN EXISTING RIGID BARRIER, INSTALL 9 PLATE WASHERS ON BACKSIDE OF RIGID BARRIER W BEAM TERMINAL 8 CONNECTOR (4) 2'-7' 6 7 %" DIA. HEX HEAD CAP SCREWS INTO THREADED INSERTS (FURNISHED WITH THE BRIDGE) WHEN RETROFITTING INTO AN EXISTING RIGID BARRIER 1/8" DIA. H.S. HEX BOLT AND

LIMIT OF STEEL PLATE

MGS BEAM GUARD

# BEAM CONNECTION TO VERTICAL FACE PARAPET

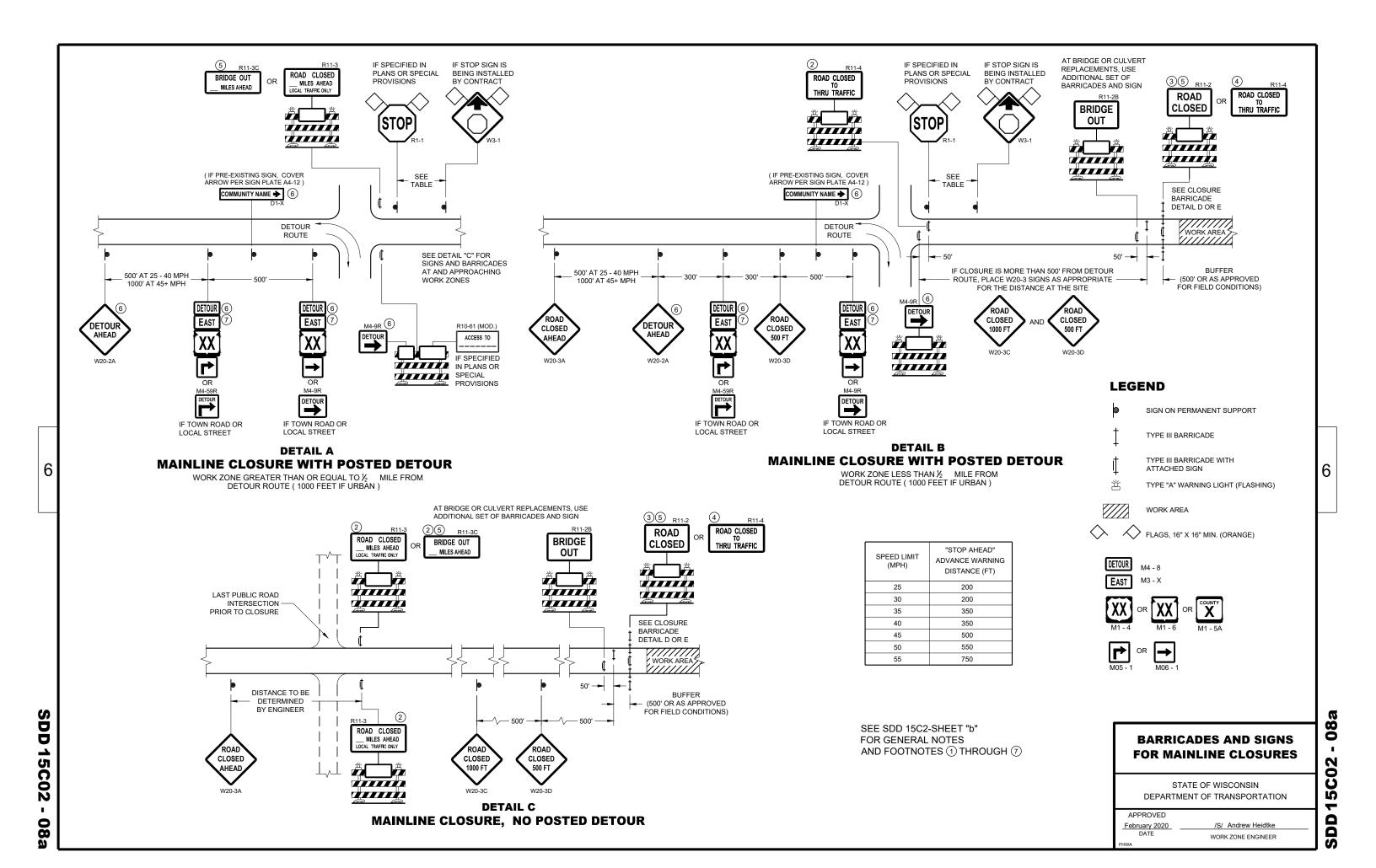
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

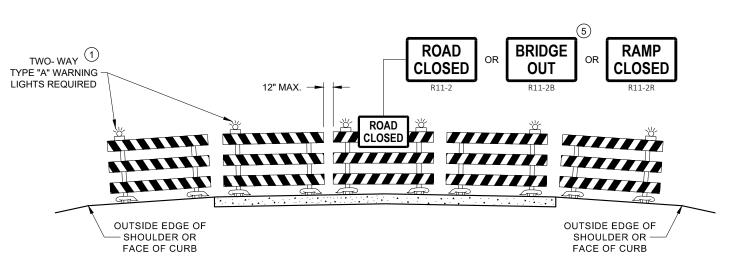
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED /S/ Rodney Taylor 07/2018 DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

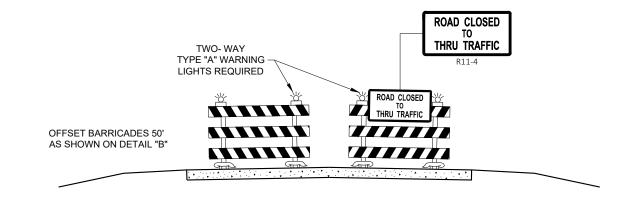
D D ₿ G

45 Ω 14 Δ Δ





# 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.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

# FOR VARIOUS CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

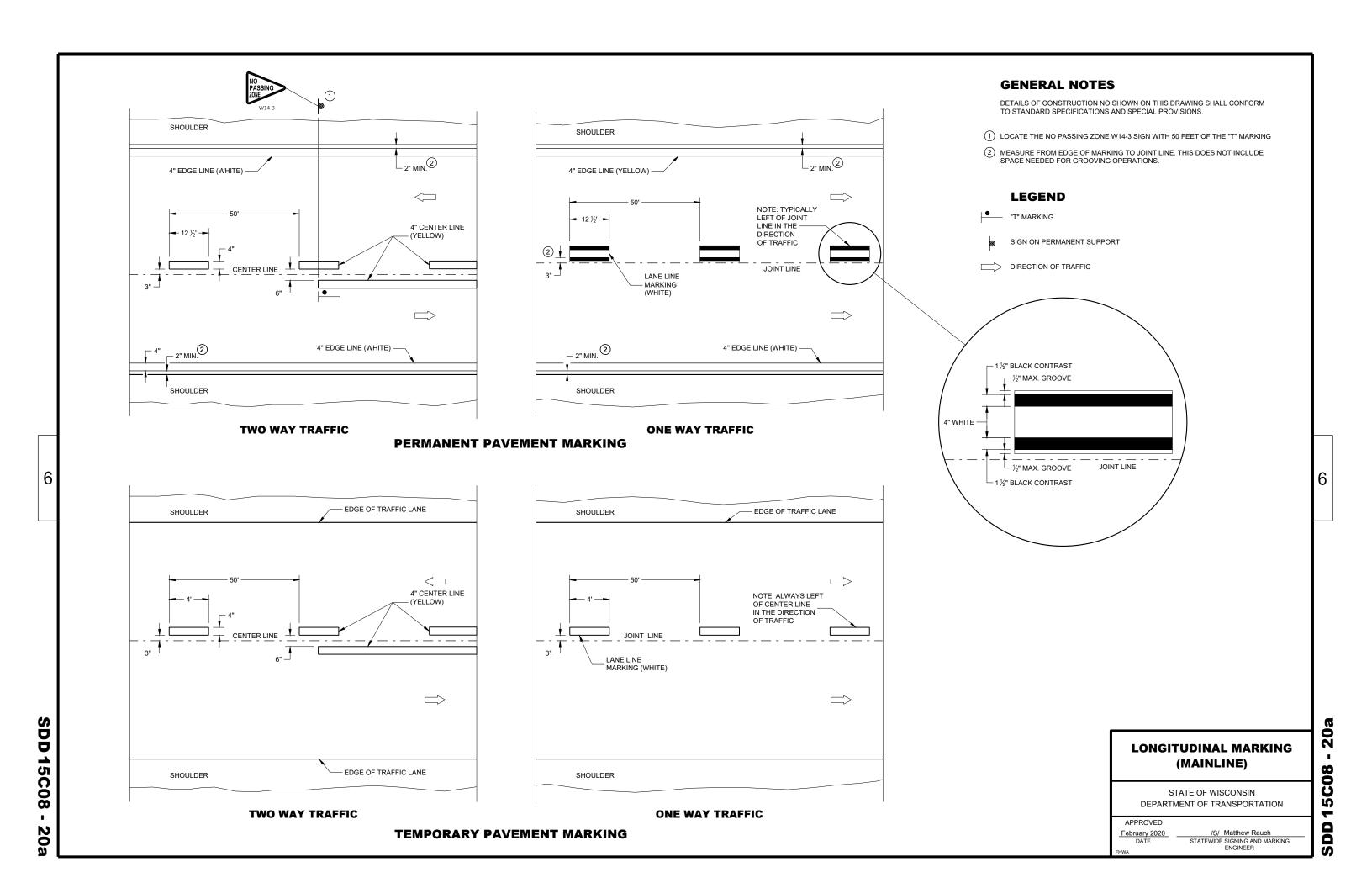
APPROVED

February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

D 15C02

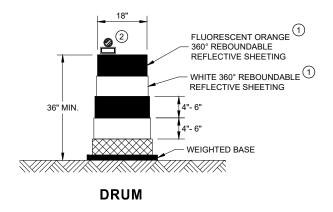


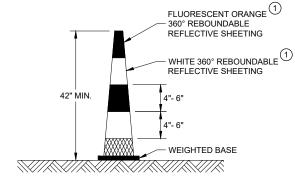


# **SDD 15C11 - 07**

#### **GENERAL NOTES**

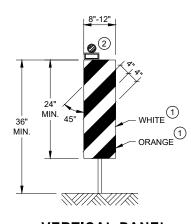
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



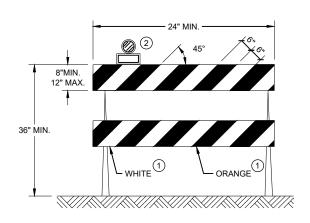


42" CONE
DO NOT USE IN TAPERS

½ SPACING OF DRUMS

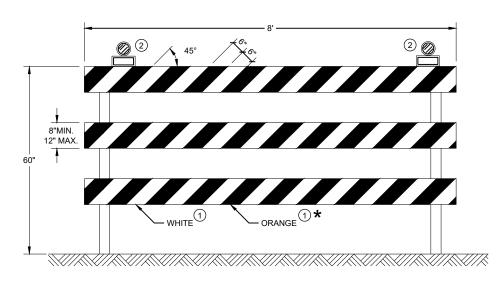


## VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



#### 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

07

**SDD 15C** 

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



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 REQUIREM	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 15 D  $\infty$ 

6

Δ

 $\infty$ 

6

- 11/2" DIAMETER HOLES

Ω

Ω

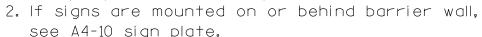
 $\infty$ **2**D 

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" ( $\pm$ ). 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" ( $\pm$ ).

- 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'' ( $\frac{+}{2}$ ).
- 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)

\*\* Curb Flowline

D

White Edgeline Location

A G'-3"(±)

Outside Edge of Gravel

White Edgeline
Location

Outside Edge
of Gravel

\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated.

That height is typically measured where

COUNTY:

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
( 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

Matthew R Rauch

For State Traffic Engineer

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

SHEET NO:

Ε

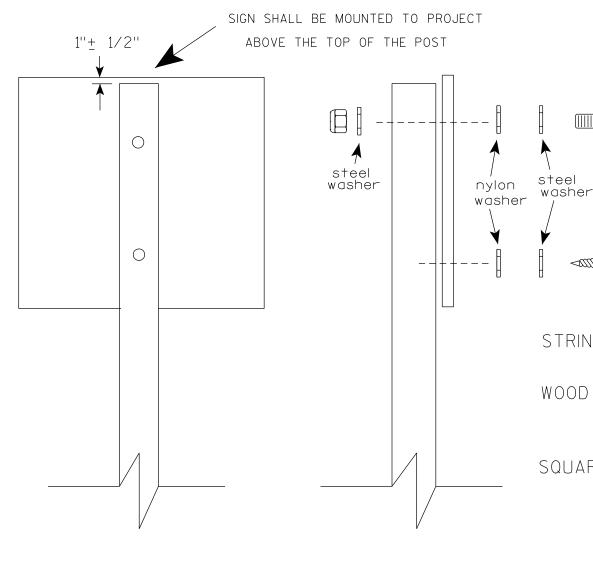
PROJECT NO:

PLOT DATE : 13-MAY 2020 1:04

PLOT BY : mscj9h

PLOT NAME :

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



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 -  $\frac{1}{32}$  " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

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

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

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

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

for State Traffic Engineer

SHEET NO:

DATE <u>4/1/202</u>0

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

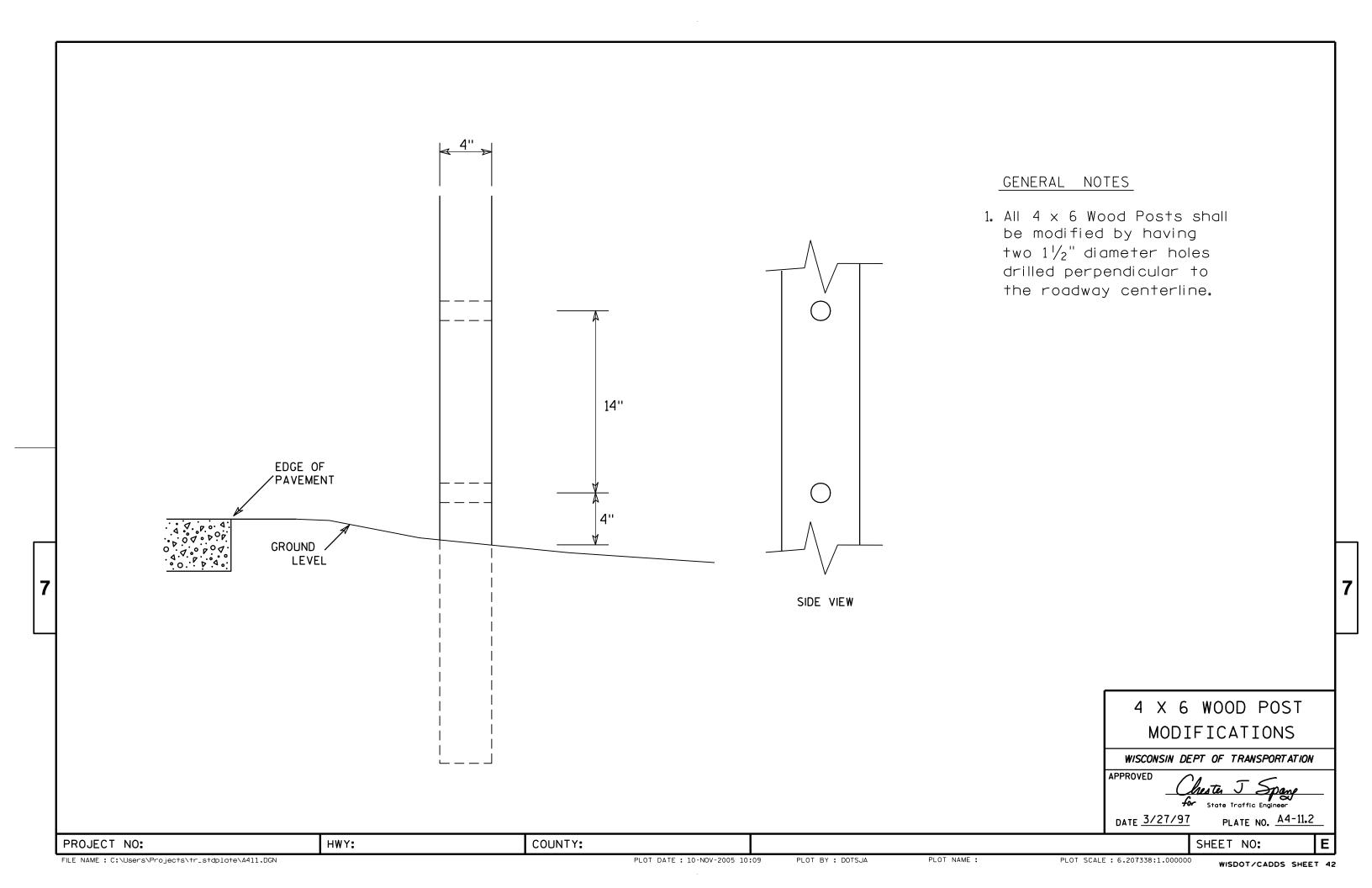
PROJECT NO:

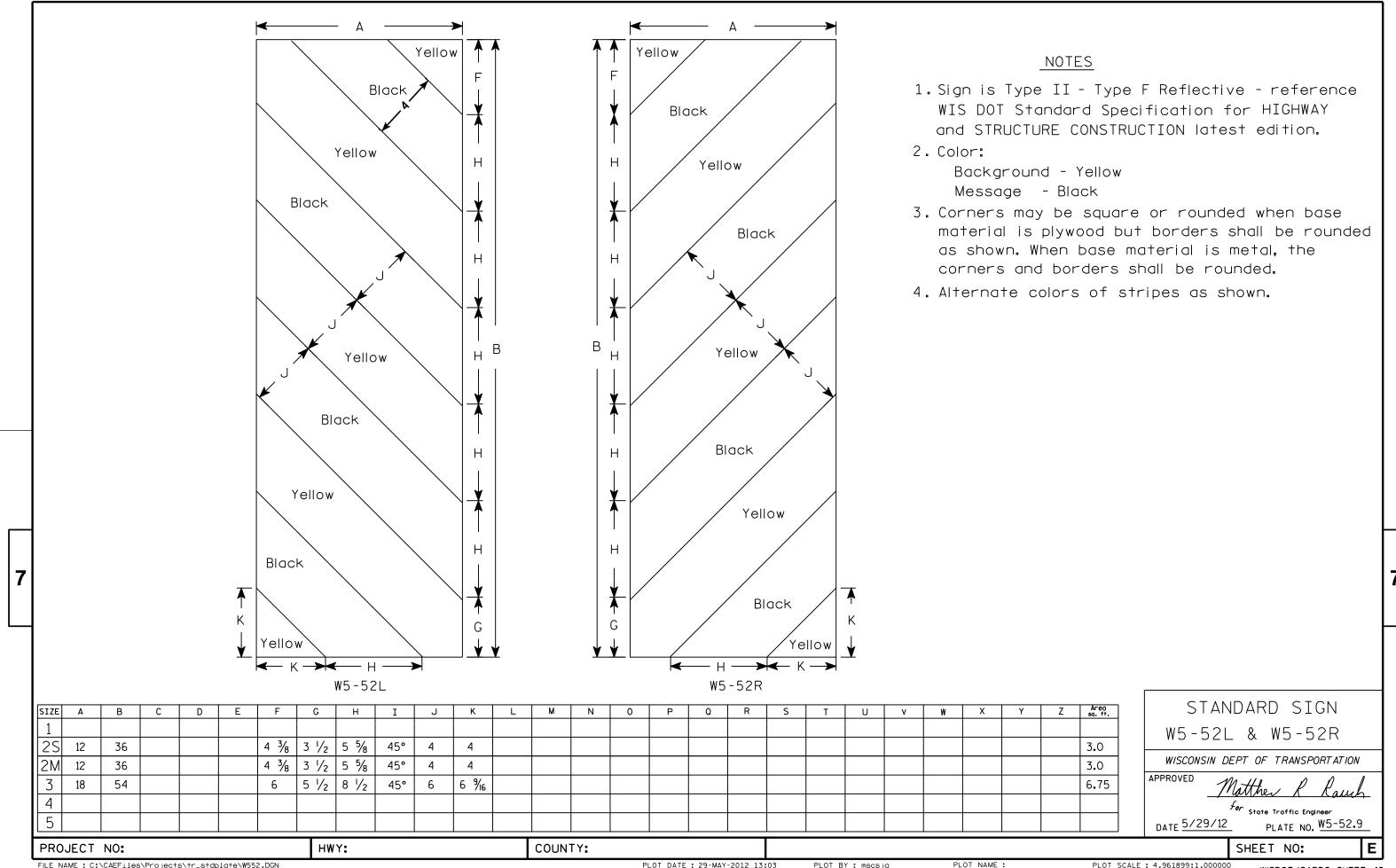
PLOT DATE: 01-APRIL-2020 P

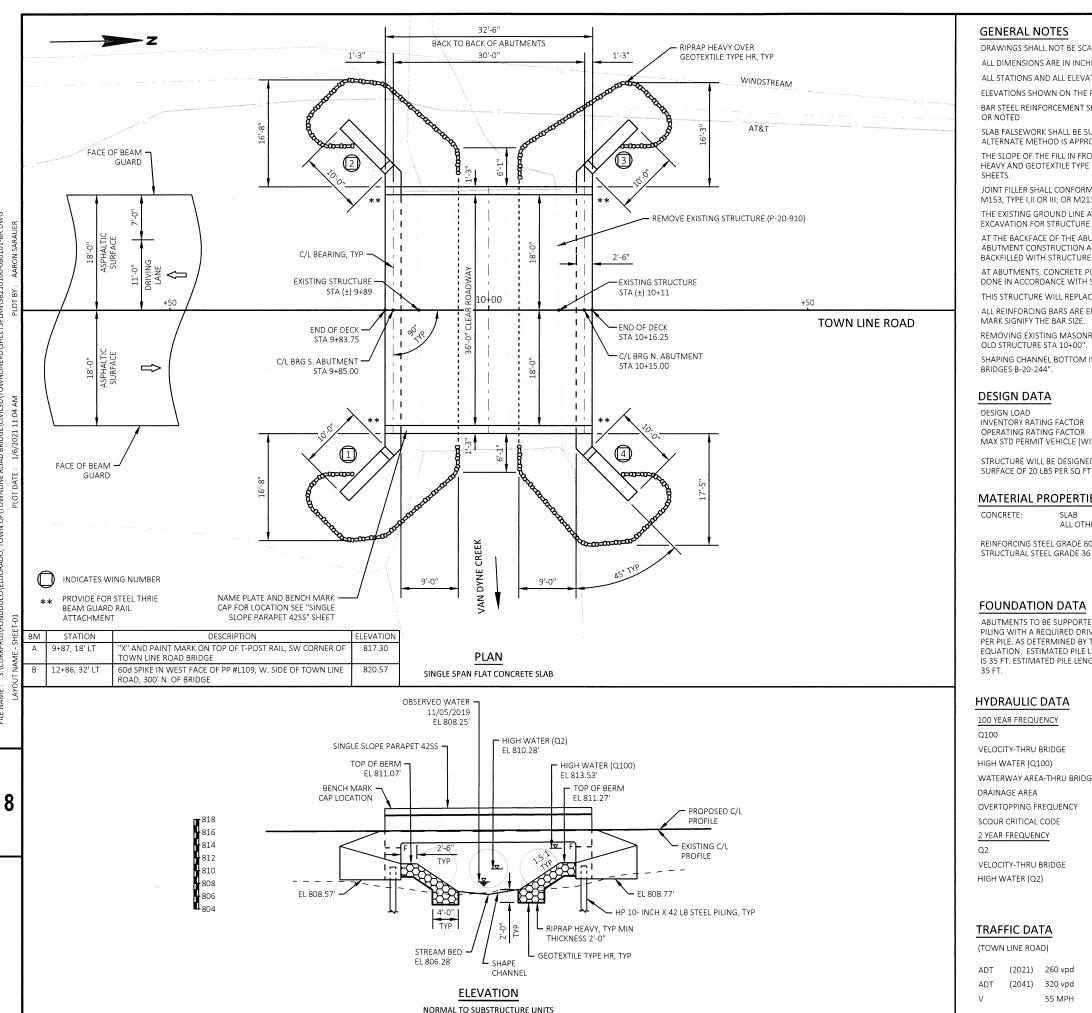
FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A48.DGN

PLOT BY : dotc4c

Ε







**GENERAL NOTES** 

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS ARE IN INCHES (IN) EXCEPT AS NOTED.

ALL STATIONS AND ALL ELEVATIONS ARE IN FEET (FT).

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO NAVD88 (2012).

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THIS SHEET AND ABUTMENT

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION: M153, TYPE I, II OR III; OR M213.

THE EXISTING GROUND LINE AT THE ABUTMENTS SHALL BE THE UPPER LIMIT OF EXCAVATION FOR STRUCTURE.

AT THE BACKFACE OF THE ABUTMENTS ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

THIS STRUCTURE WILL REPLACE (3) 72-INCH CORRUGATE METAL PIPE CULVERTS (P-20-910).

ALL REINFORCING BARS ARE ENGLISH AND THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFY THE BAR SIZE.

REMOVING EXISTING MASONRY HEADWALLS ARE INCIDENTAL TO BID ITEM "REMOVING OLD STRUCTURE STA 10+00".

SHAPING CHANNEL BOTTOM IS INCIDENTAL TO BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-20-244"

#### **DESIGN DATA**

INVENTORY RATING FACTOR RF=1 40 OPERATING RATING FACTOR RF=1.82 MAX STD PERMIT VEHICLE (WIS SPV)

STRUCTURE WILL BE DESIGNED FOR A FUTURE WEARING SURFACE OF 20 LBS PER SQ FT

#### **MATERIAL PROPERTIES**

f'c = 4,000 psi ALL OTHER f'c = 3,500 psi REINFORCING STEEL GRADE 60 fy = 60,000 psi  $f_V = 36,000 \text{ psi}$  \* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

#### **FOUNDATION DATA**

ABUTMENTS TO BE SUPPORTED ON HP 10-INCH X 42 LB STEEL PILING WITH A REQUIRED DRIVING RESISTANCE OF 110 TONS\* PER PILE. AS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION. ESTIMATED PILE LENGTH FOR SOUTH ABUTMENT IS 35 FT. ESTIMATED PILE LENGTH FOR NORTH ABUTMENT IS

#### HYDRAULIC DATA

100 YEAR FREQUENCY

Q100 = 750 cfs VELOCITY-THRU BRIDGE  $= 9.6 \, \text{fps}$ HIGH WATER (Q100) = 813.53 ft WATERWAY AREA-THRU BRIDGE = 78 ft<sup>2</sup> DRAINAGE AREA  $= 4.9 \text{ mi}^2$ OVERTOPPING FREQUENCY = N/A SCOUR CRITICAL CODE 2 YEAR FREQUENCY = 200 cfs = 7.5 fps

= 810.28 ft

#### TRAFFIC DATA

(TOWN LINE ROAD)

ADT (2021) 260 vpd ADT (2041) 320 vpd 55 MPH **BRIDGE OFFICE CONTACT:** AARON BONK 608-261-0261

CONSULTANT CONTACT: THOMAS LANSER 920-924-5720

REVISION GREMMER & ASSOCIATES, INC. CONSULTING ENGINEERS Stevene Point • Fond du Lac

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> > STRUCTURE B-20-244

TOWN LINE ROAD OVER VAN DYNE CREEK

FOND DU LAC FLDORADO DESIGN SPE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

ALK

**GENERAL** PLAN

DESIGN RTA CK'D

SHEET 1 OF 8

MJK CK'D

MISCONSIA RYAN T. **ARNDT 5-41765** POND DU LAC.

STATE PROJECT NUMBER

3821-01-71

### LIST OF DRAWINGS

GENERAL PLAN

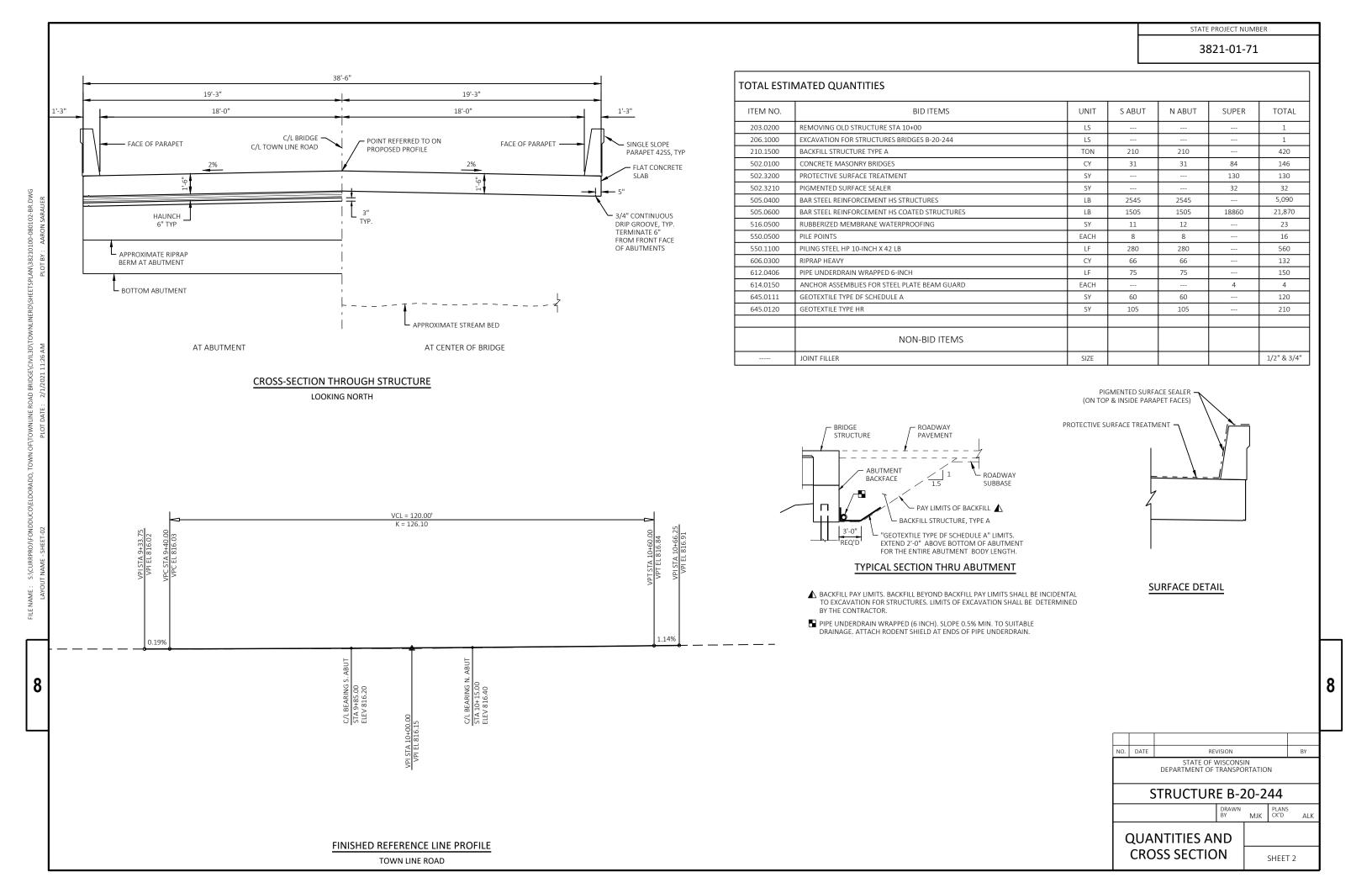
QUANTITIES AND CROSS SECTION SUBSURFACE EXPLORATION

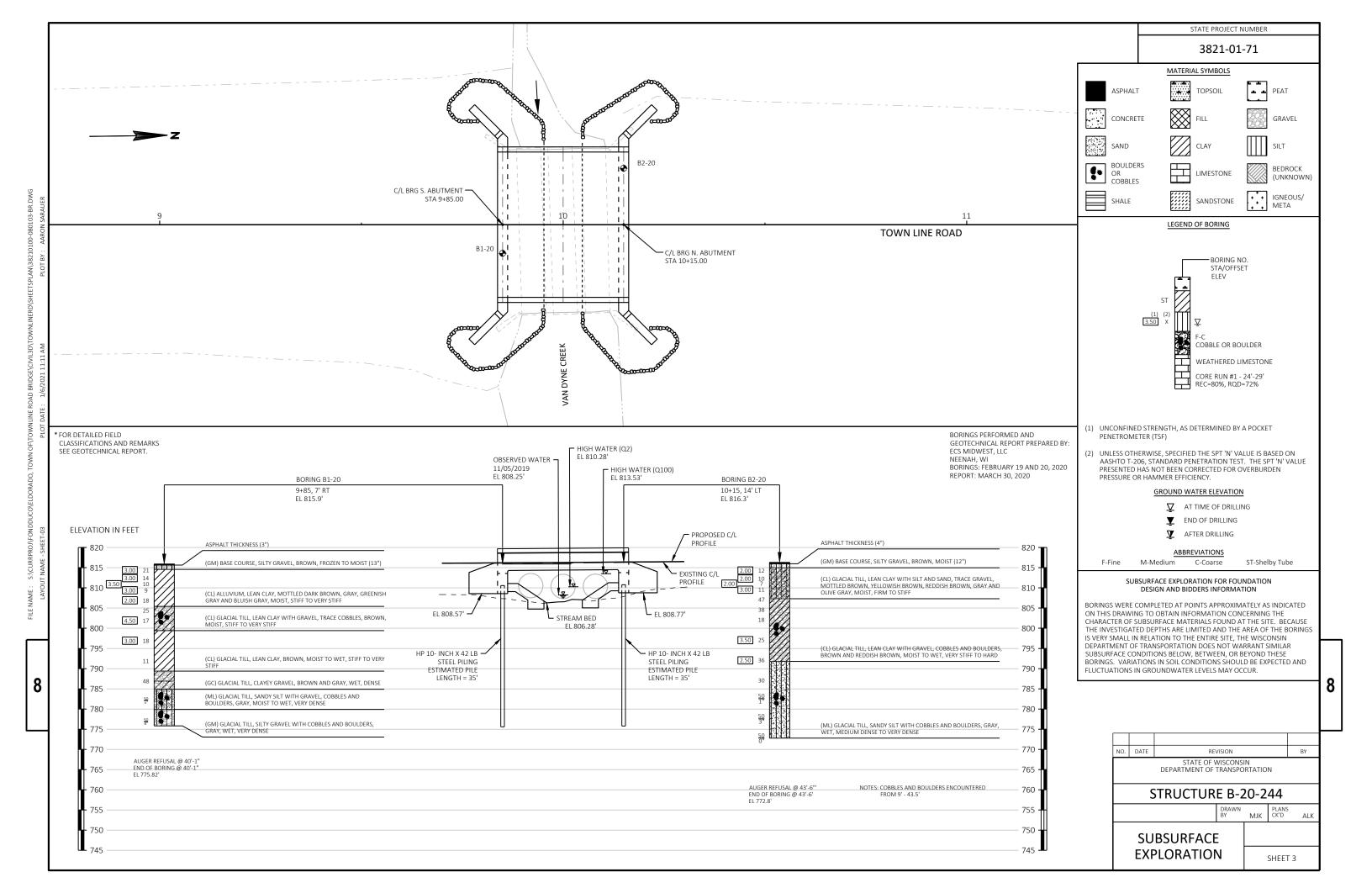
ABUTMENT

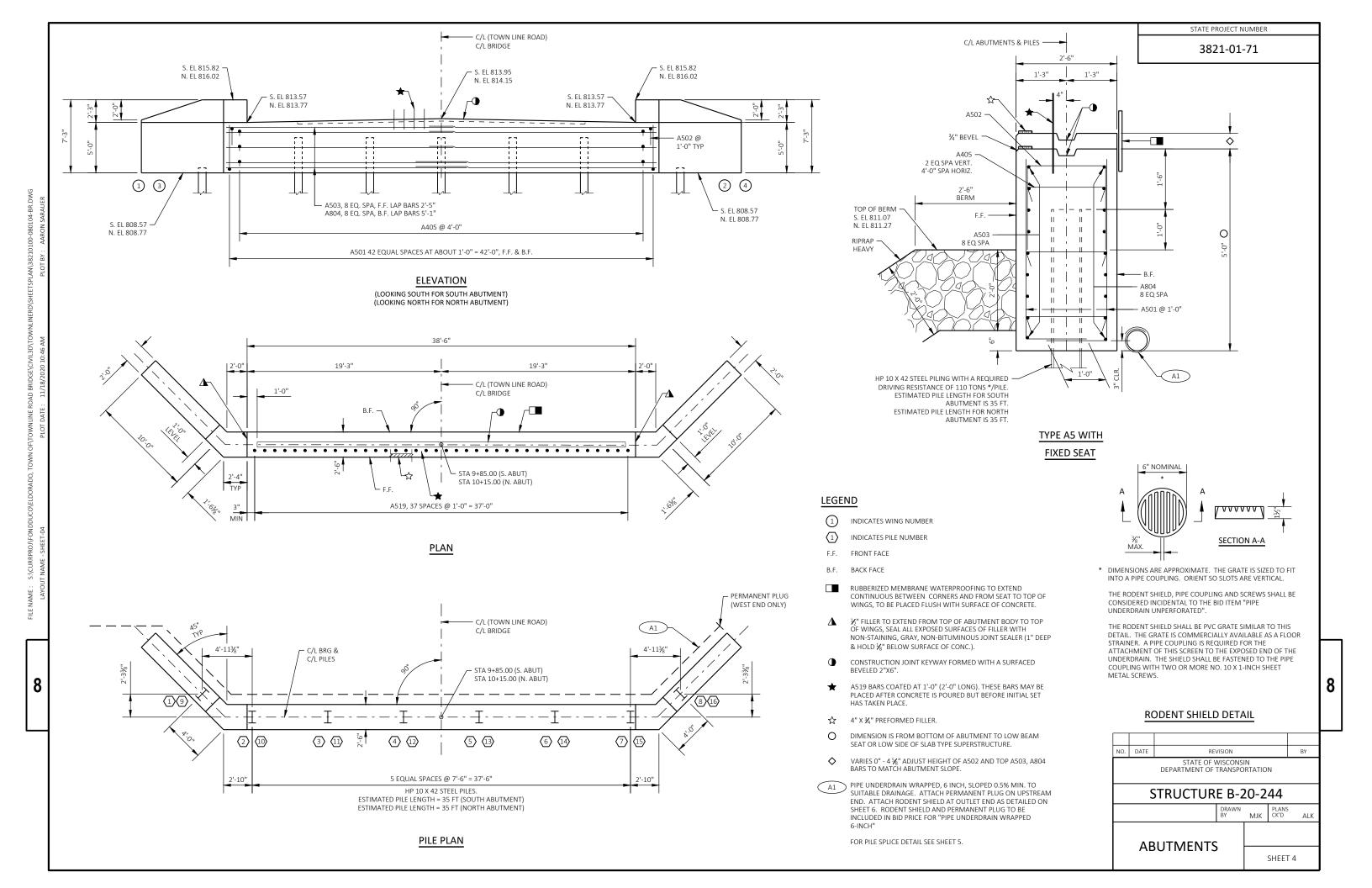
ABUTMENT DETAILS

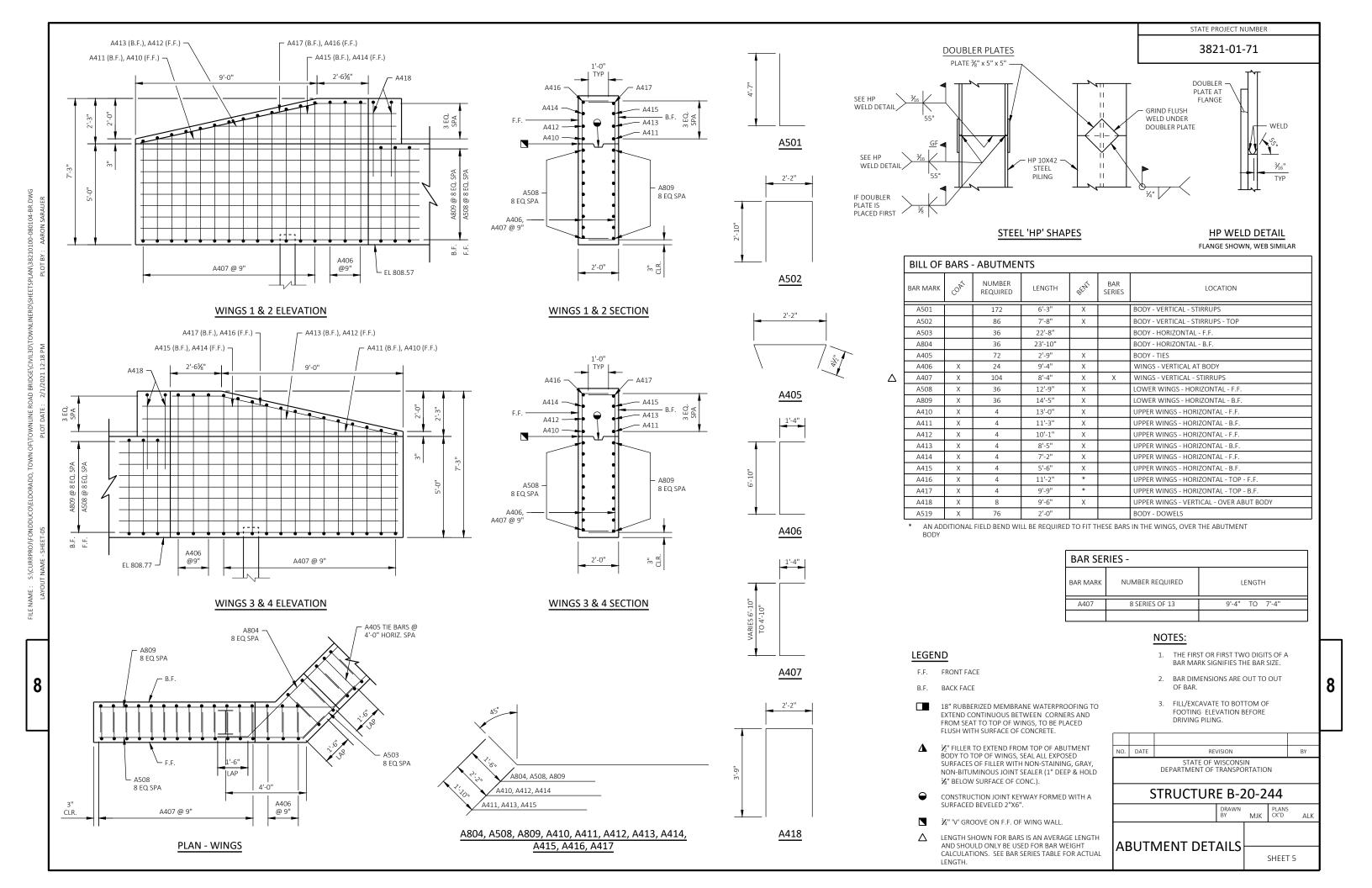
SUPERSTRUCTURE

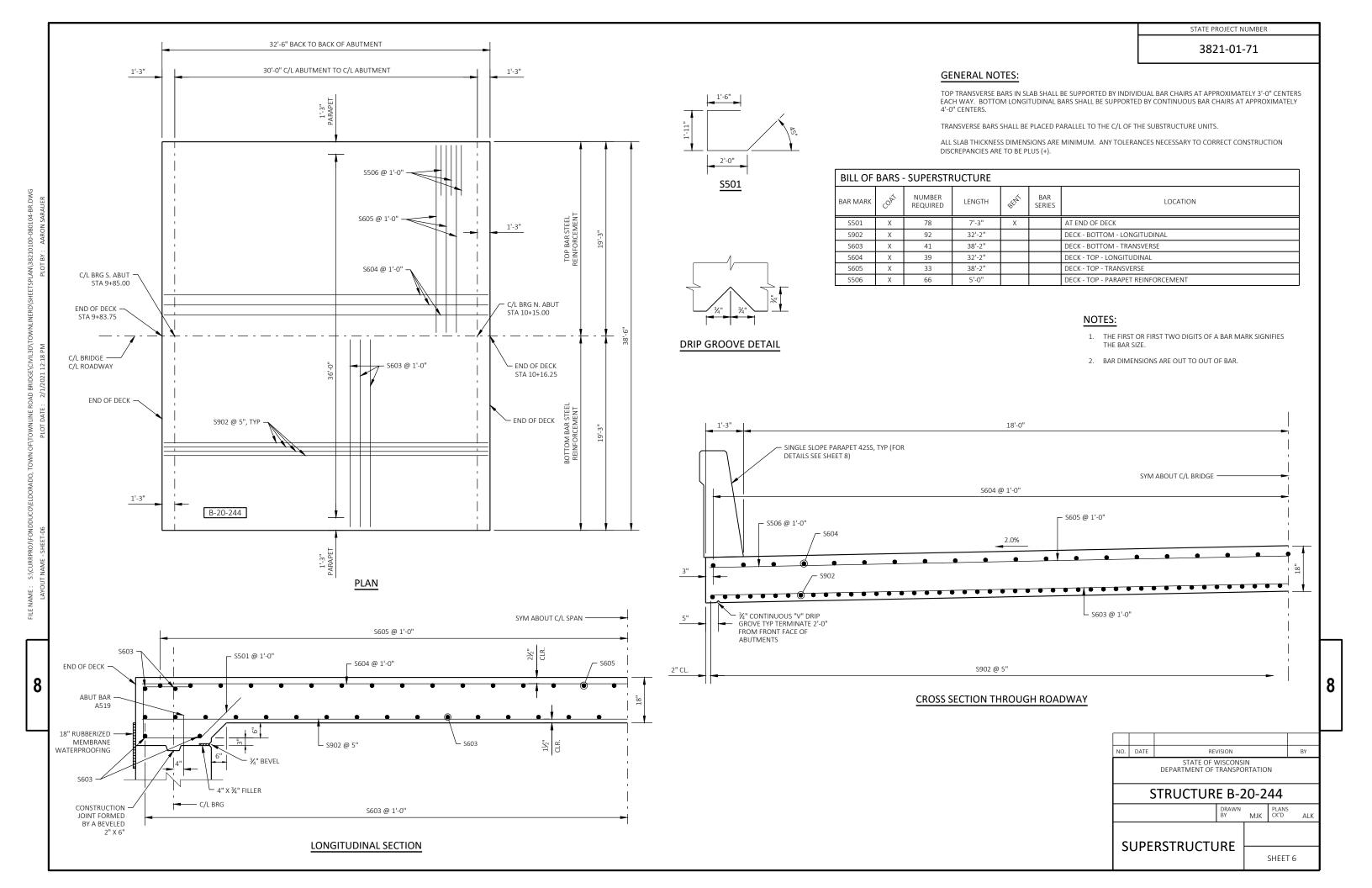
SUPERSTRUCTURE DETAILS 8. SINGLE SLOPE PARAPET 42SS

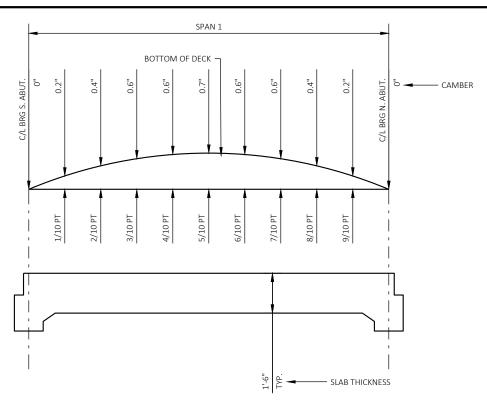












#### CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS.
CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD
DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT
INCLUDE ALLOWANCE FOR FORM SETTLEMENT.
PARAPETS, SIDEWALKS AND MEDIANS PLACED ON TOP OF THE SLAB
SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

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

TOP OF SLAB ELEVATION AT FINAL GRADE SLAB THICKNESS

LESS

PLUS CAMBER

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

TOP OF SLAB FALSEWORK ELEVATION.

TOP OF DECK ELEVATIONS AT FINAL GRADE											
	C/L BRG. S. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	C/L BRG. N ABUT.
STATION	9+85.0	9+88.0	9+91.0	9+94.0	9+97.0	10+00.0	10+03.0	10+06.0	10+09.0	10+12.0	10+15.0
W. EDGE OF DECK	815.82	815.84	815.86	815.87	815.89	815.91	815.93	815.95	815.98	816.00	816.02
CROWN OR R/L	816.20	816.22	816.24	816.25	816.27	816.29	816.31	816.33	816.36	816.38	816.40
E. EDGE OF DECK	815.82	815.84	815.86	815.87	815.89	815.91	815.93	815.95	815.98	816.00	816.02

SURVEY TOP OF SLAB ELEVATIONS						
	ABUTMENT	5/10	ABUTMENT			
N. EDGE						
CROWN OR R/L						
S. EDGE						

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE C/L OF ABUTMENTS AND AT 5/10 PTS. TO VERIFY CAMBER.

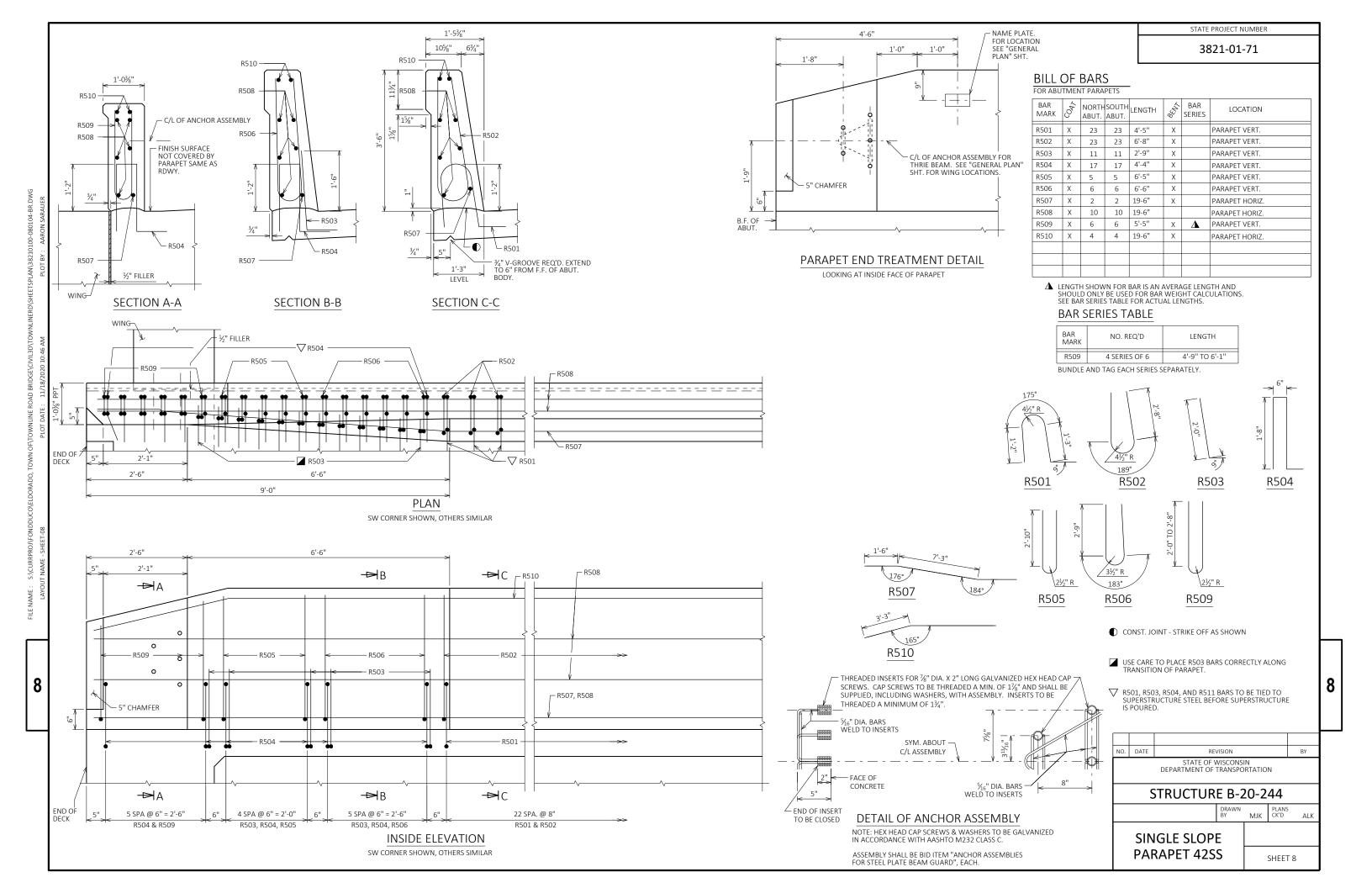
#### NOTES:

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.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

Ο.	DATE	REVISION BY							
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
	STRUCTURE B-20-244								
DRAWN PLANS BY MJK CK'D AL									
S	SUPERSTRUCTURE								
		DETAILS		SHEE	Г7				

8



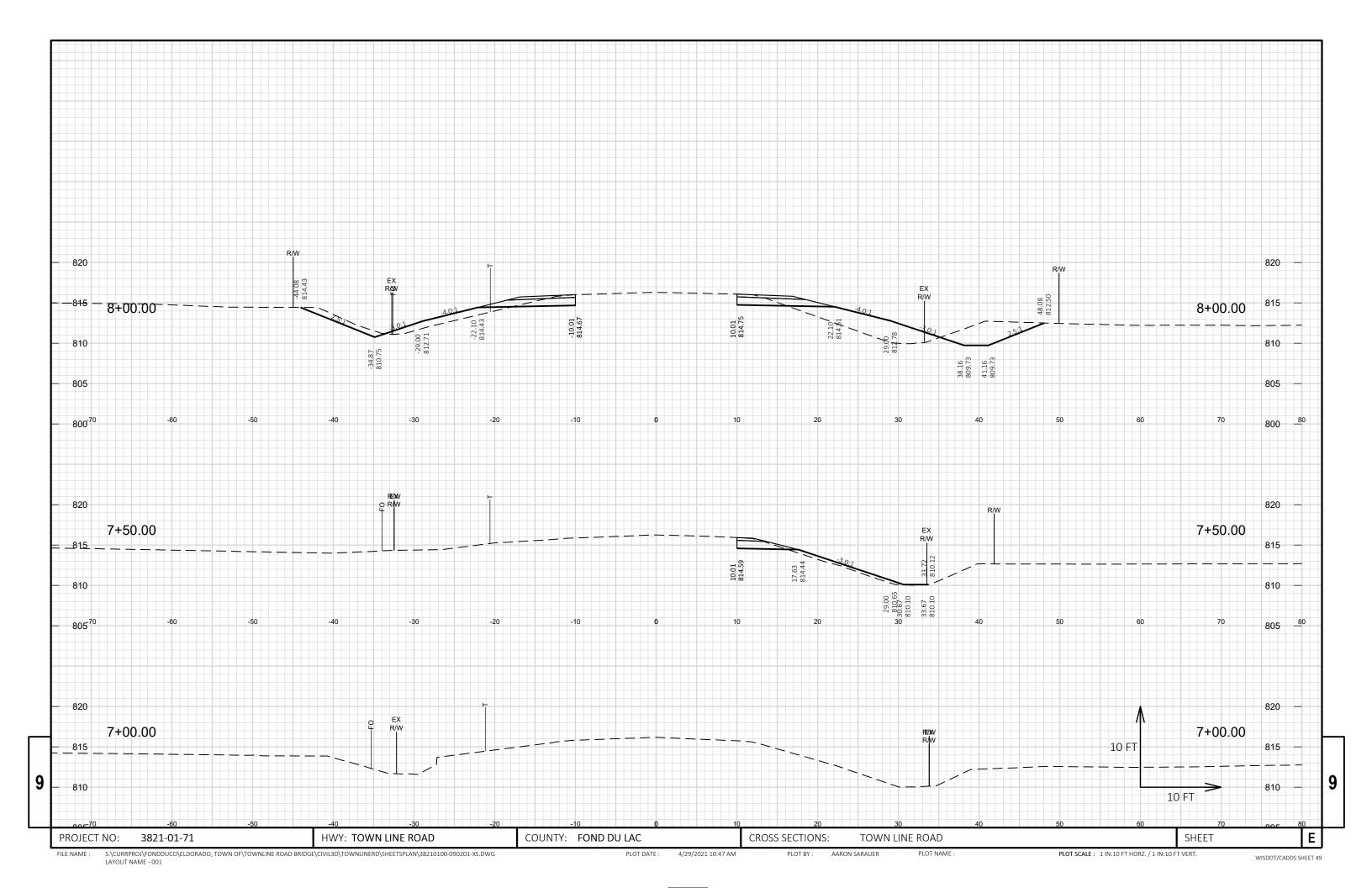
			ARE	A (SF)	INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
STATION	REAL STATION	DISTANCE	СИТ	FILL	<b>CUT</b> NOTE 1	<b>FILL</b> NOTE 2	<b>CUT</b> 1.00 NOTE 1	EXPANDED FILL 1.30	MASS ORDINATE NOTE 3
07+00	700.00	0.00	0.00	0.00	0	0	0	0	0
07+50	750.00	50.00	5.31	4.95	5	5	5	6	-1
08+00	800.00	50.00	39.15	43.32	41	45	46	64	-18
08+05	805.00	5.00	58.14	45.97	9	8	55	75	-20
08+50	850.00	45.00	61.56	70.34	100	97	155	201	-46
08+70.401	870.40	20.40	55.21	83.52	44	58	199	276	-77
08+80.401	880.40	10.00	61.08	86.03	22	31	220	317	-97
09+00	900.00	19.60	31.72	91.01	34	64	254	401	-147
09+30.396	930.40	30.40	41.99	85.96	41	100	296	530	-235
09+50	950.00	19.60	63.88	63.48	38	54	334	601	-267
09+83.75	983.75	33.75	40.26	111.33	65	109	399	743	-344
09+83.85	983.85	0.10	0.00	0.00	0	0	399	743	-344
10+16.15	1016.15	32.30	0.00	0.00	0	0	399	743	-344
10+16.25	1016.25	0.10	33.03	121.24	0	0	399	743	-344
10+50	1050.00	33.75	49.24	30.85	51	95	451	867	-416
10+69.604	1069.60	19.60	28.21	37.05	28	25	479	899	-420
11+00	1100.00	30.40	21.90	45.79	28	47	507	960	-453
11+19.599	1119.60	19.60	24.93	39.19	17	31	524	1000	-476
11+29.599	1129.60	10.00	25.56	34.62	9	14	533	1017	-484
11+50	1150.00	20.40	26.99	23.92	20	22	553	1046	-493
11+75	1175.00	25.00	25.25	14.49	24	18	577	1069	-492
11+95	1195.00	20.00	26.06	10.90	19	9	596	1082	-485
12+00	1200.00	5.00	18.81	10.48	4	2	601	1084	-484
12+50	1250.00	50.00	17.33	1.85	33	11	634	1099	-465
13+00	1300.00	50.00	15.86	0.00	31	2	665	1101	-436
	COLUMN TOTA	LS			665	847			

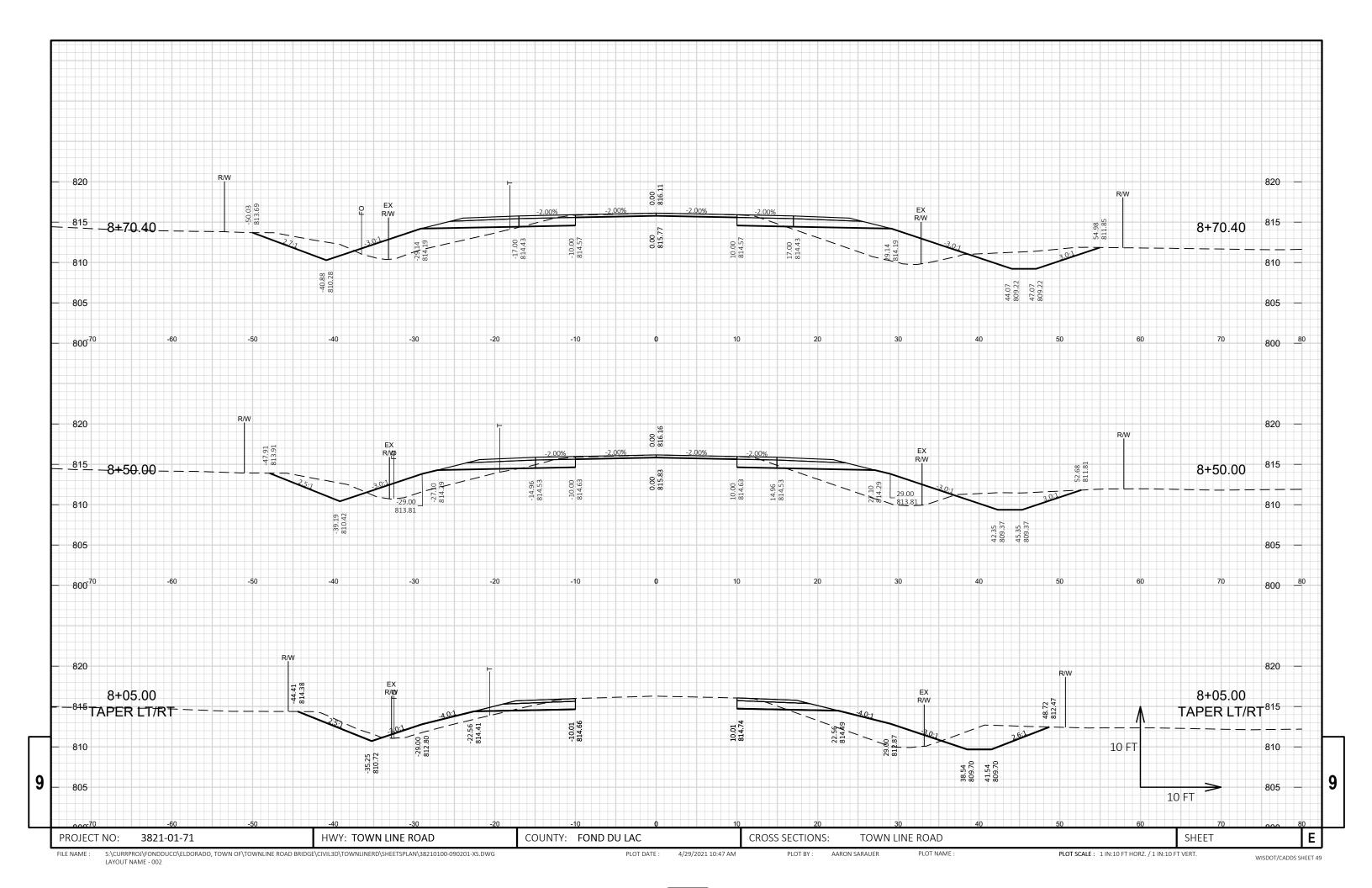
Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Fill	Does not include Unusable Pavement Excavation volume
3 - Mass Ordinate	Mass Ordinate = Cut - Expanded Fill

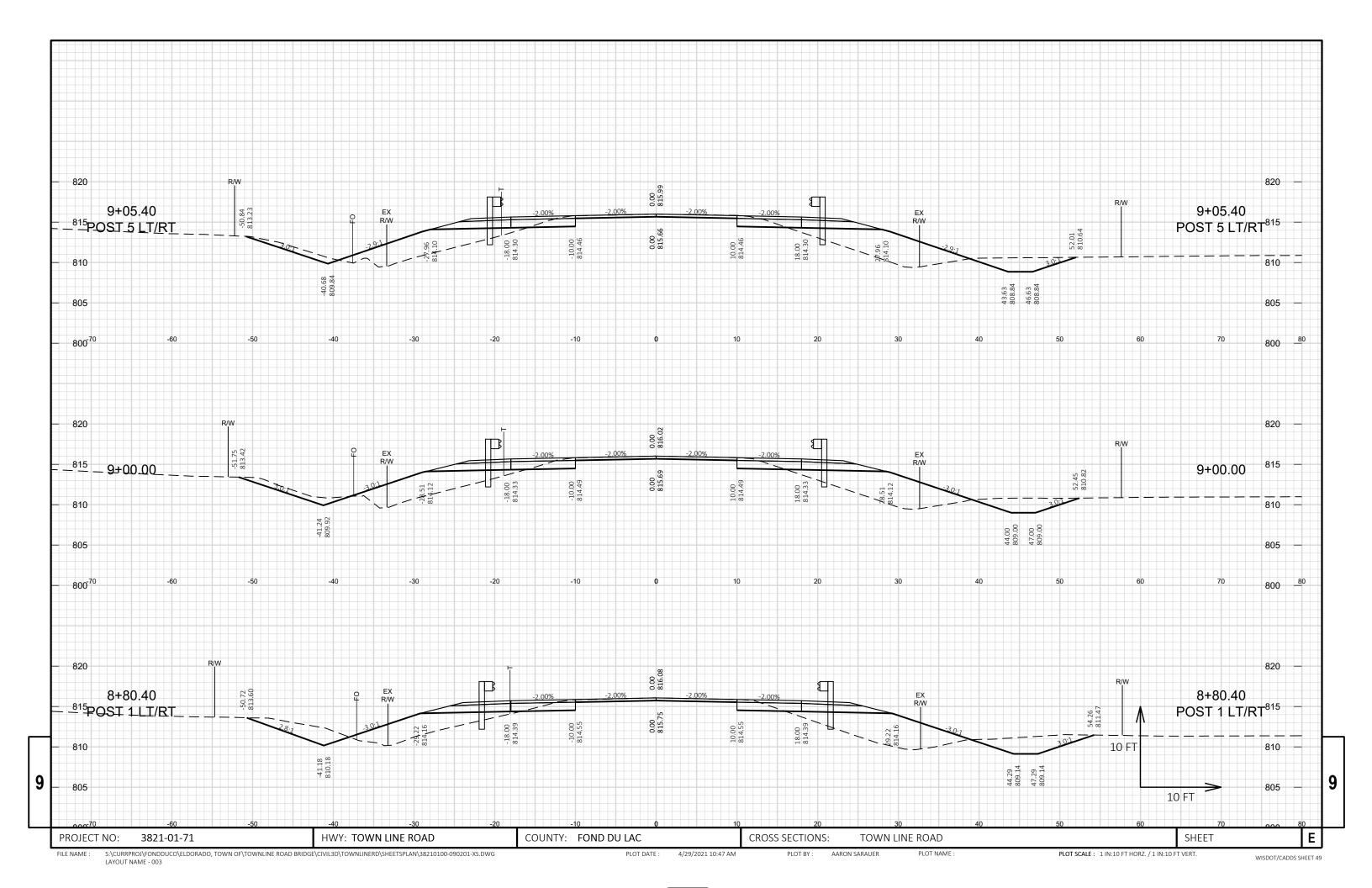
9

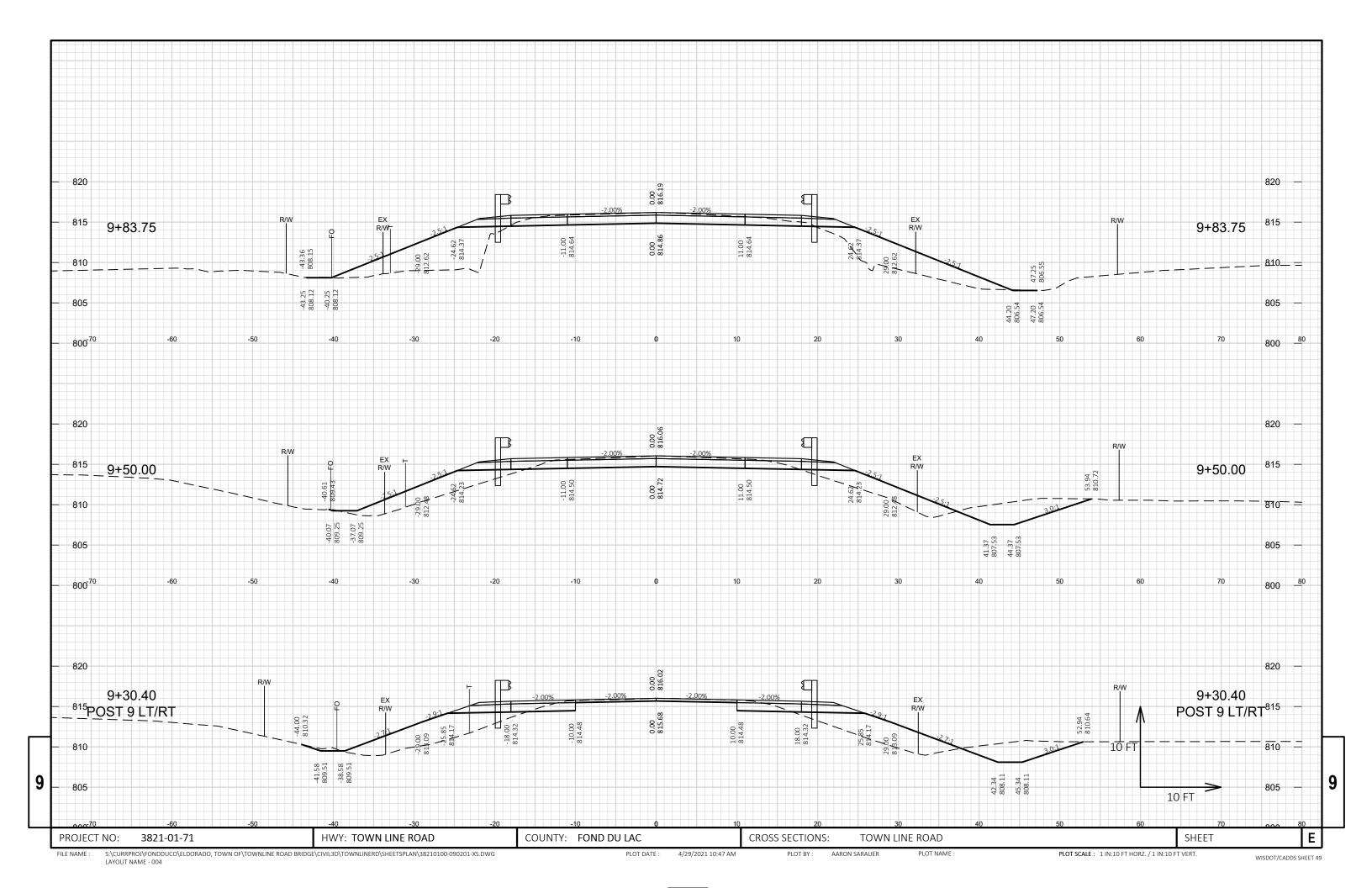
PROJECT NO: 3821-01-71 HWY: TOWN LINE ROAD COUNTY: FOND DU LAC COMPUTER EARTHWORK DATA SHEET E

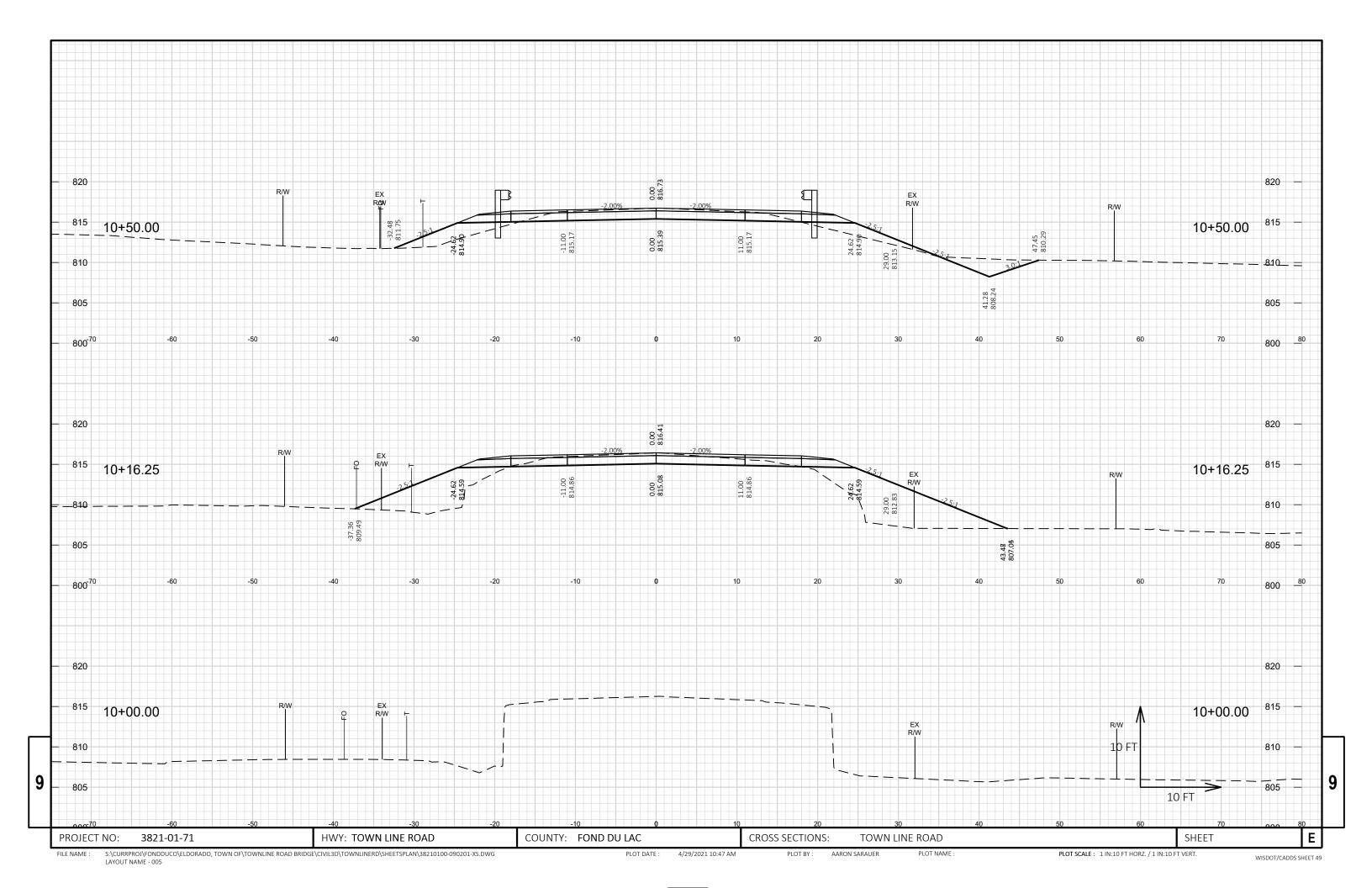
FILE NAME : 090101-ew.ppt PLOT DATE: 01/29/2021 11:02 AM PLOT BY : gaajs PLOT SCALE : 1:1

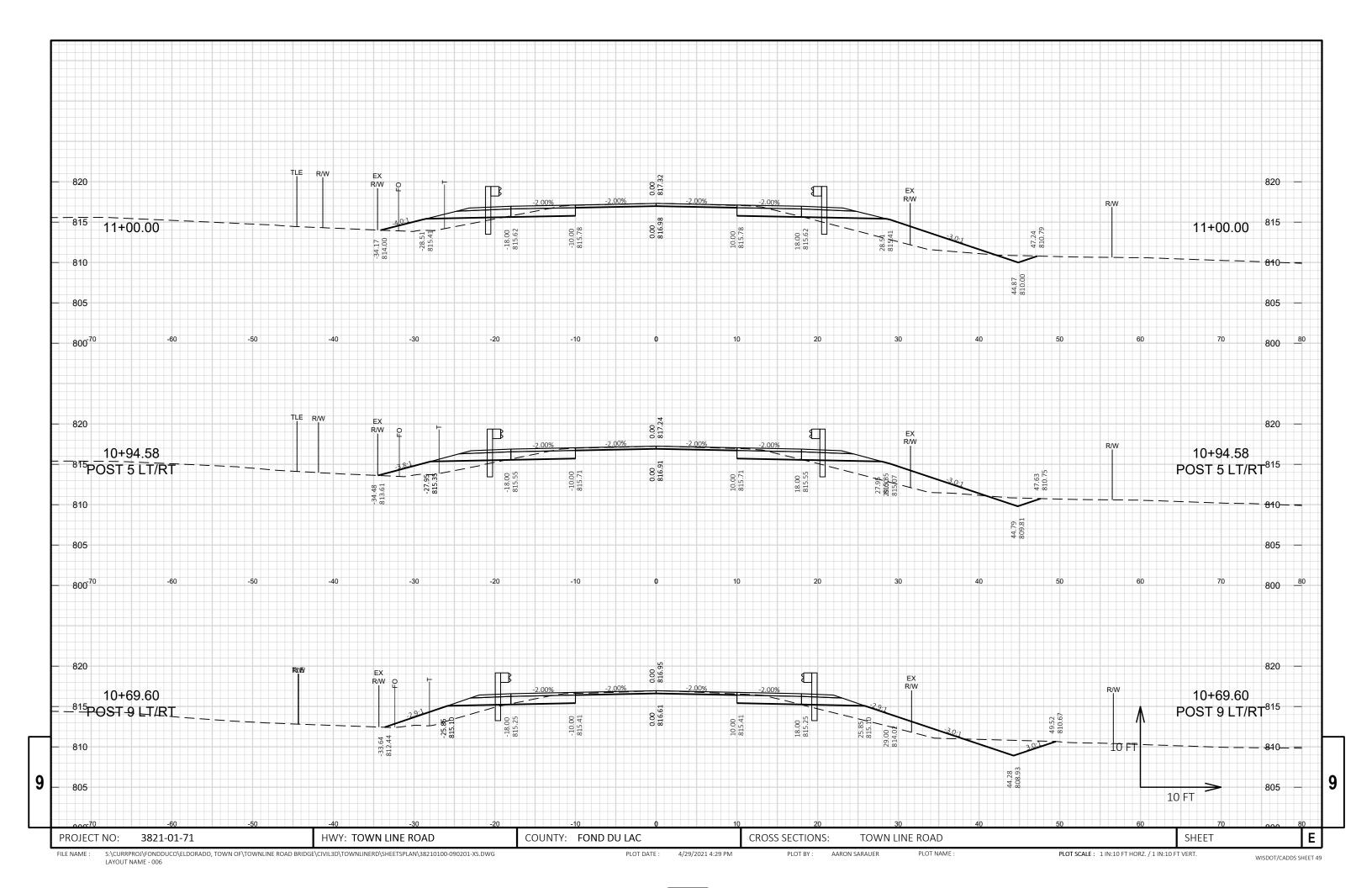


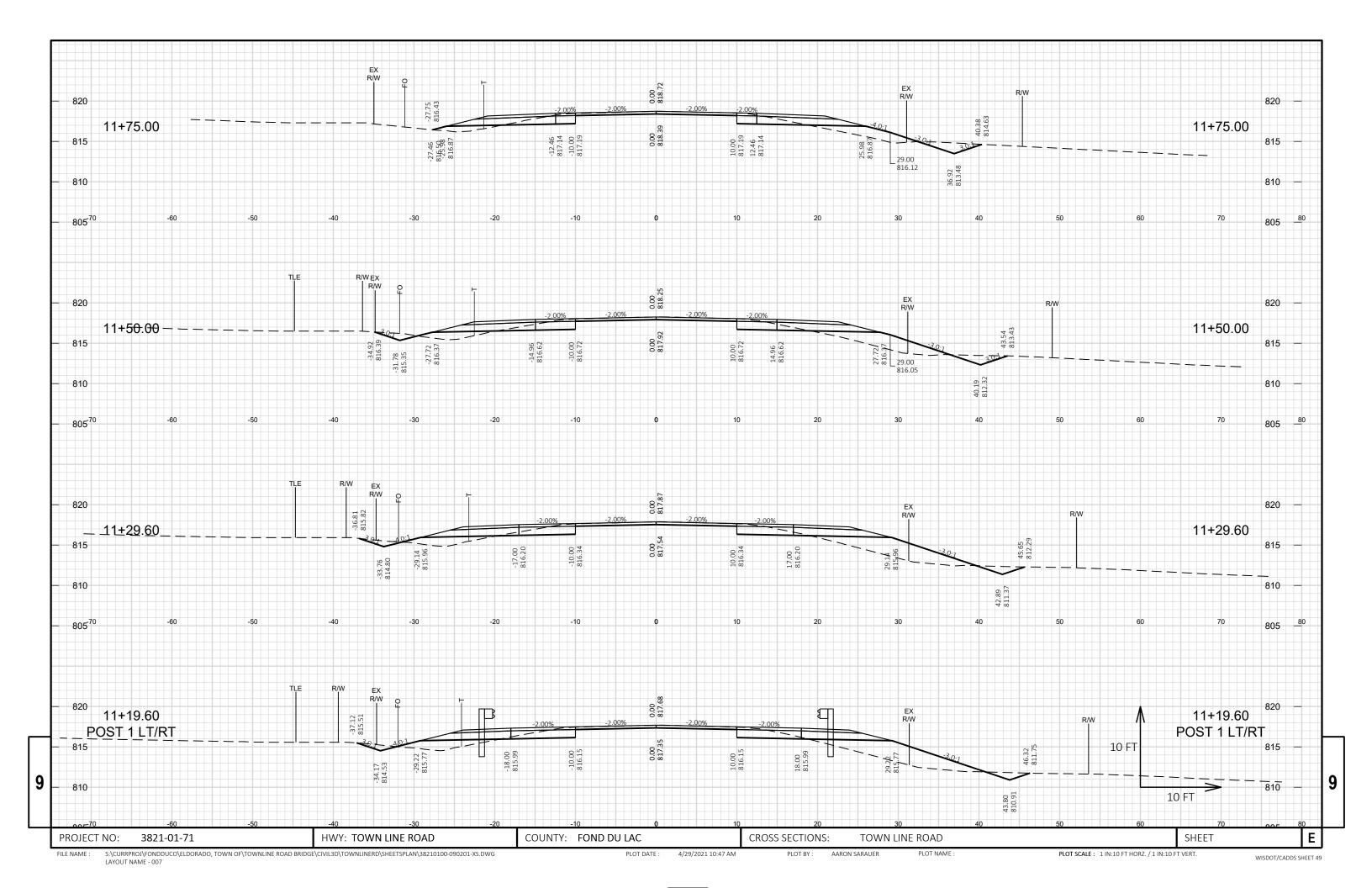


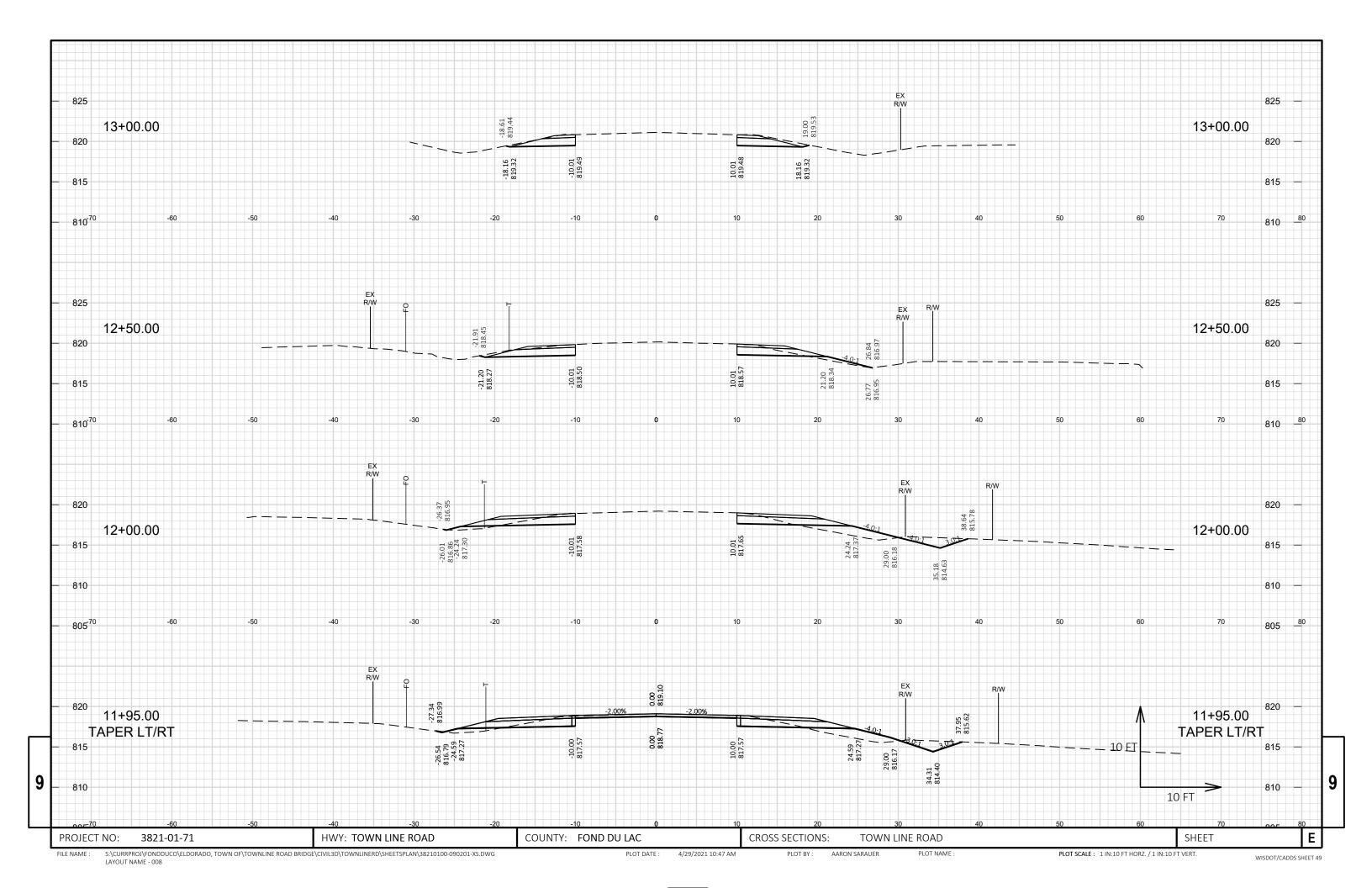














## Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov