STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

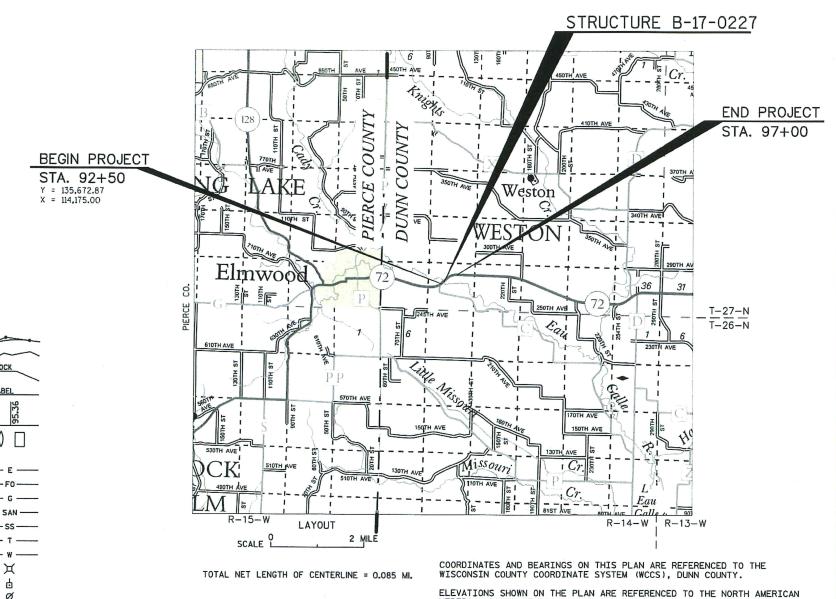
PLAN OF PROPOSED IMPROVEMENT

ELLSWORTH - DOWNSVILLE

EAU GALLE RIVER BRIDGE B-17-0227

STH 72 DUNN COUNTY

> STATE PROJECT NUMBER 7105-00-72



ORIGINAL PLANS PREPARED BY s - Architects + Surveyors FREDERICK G GRUBER E-28971 OC = SPRING GREEN. STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY JEWELL ASSOCIATES ENGINEERS, INC. Surveyor JEWELL ASSOCIATES ENGINEERS, INC. TYLER RONGSTAD, P.E. Project Manager TOU YANG, P.E. Regional Examiner . JAMES KOENIG, P.E. Regional Supervisor APPROVED FOR THE DEPARTMENT 7/27/18

FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2019773

STATE PROJECT

7105-00-72

FILE NAME : S:\PROJECTS\W11554 STH 72 BRIDGE, DUNN COUNTY\SHEETSPLAN\TITLE SHEET.DWG LAYOUT NAME - TITLE SHEET

PROFILE

GRADE LINE ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

ELECTRIC

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

STORM SEWER TELEPHONE

WATER

GRADE ELEVATION

MARSH OR ROCK PROFILE

CULVERT (Profile View)

(To be noted as such)

PLOT DATE: 7/23/2018 2:45 PM

PLOT BY : STEPHANIE POTTER PLOT NAME :

VERTICAL DATUM OF 1988 (NAVD 88).

LIST OF STANDARD ABBREVIATIONS

ABUT	Abutment	INV	Invert	RDWY	Roadway
AC .	Acre	IP.	Iron Pipe or Pin	SALV	Salvaged
AGG	Aggregate	IRS	Iron Rod Set	SAN S	Sanitary Sewer
AΗ	Ahead	JT	Joint	SEC	Section
<	Angle	JCT	Junction	SHLDR	Shoulder
ASPH	Asphaltic	LHF	Left-Hand Forward	SHR	Shrinkaae
4VG	Average	L	Length of Curve	SW	Sidewalk
ADT	Average Daily Traffic	LIN FT	Linear Foot	S.	South
BAD	Base Aggregate Dense	or LF		SQ	Sauare
3K	Back	LC	Long Chord of Curve	SF or SQ FT	Square Feet
3F	Back Face	MH	Manȟole	SY or SQ YD	Square Yard
3M	Bench Mark	MB	Mailbox	STD	Standard
3R	Bridge	ML or M/L	Match Line	SDD	Standard Detail Drawin
or C/L	Center Line	N ,	North	STH	State Trunk Highways
C ,	Center to Center	Υ	North Grid Coordinate	STA	Station
TH .	County Trunk Highway	OD	Outside Diameter	SS	
R	Creek	PLE	Permanent Limited		Storm Sewer
OR .	Crushed		Easement	SG	Subgrade
CY or CU YD	Cubic Yard	PT	Point	SE .	Superelevation
P OF CO ID	Culvert Pipe	PC	Point of Curvature	SL or S/L	Survey Line
. & G		PI	Point of Intersection	SV	Septic Vent
, &C G	Curb and Gutter	PRC	Point of Reverse	T	Tangent
) DHV	Degree of Curve		Curvature	TEL	Telephone
	Design Hour Volume	PT	Point of Tangency	TEMP	Temporary
DIA -	Diameter	POC	Point On Curve	TI	Temporary Interest
-	East	POT	Point on Tangent	TLE	Temporary Limited
(East Grid Coordinate	PVC	Polyvinyl Chloride		Easement
LEC	Electric (al)	PCC	Portland Cement	t	Ton
L or ELEV	Elevation	LB	Concrete	T or TN	Town
SALS	Equivalent Single Axle	PSI	Pound Pounds Per Square Inch	TRANS	Transition
BS	Loads Excavation Below	PE PE	Private Entrance	TL or T/L	Transit Line
.03	Subgrade	R	Radius	Т	Trucks (percent of)
F	Face to Face	RR	Railroad	TYP	Typical
F E	Field Entrance	R	Range	UNCL	Unclassified
-	Fill	RL or R/L	Reference Line	UG	Underground Cable
-G	Finished Grade	RP RP	Reference Point	USH	United States Highway
L or F/L	Flow Line	RCCP	Reinforced Concrete	VAR	Variable
T	Foot	11001	Culvert Pipe	V	Velocity or Design Spe
TG	Footing	REQD	Required	VERT	Vertical
SN	Grid North	RES	Residence or Residential	VC	Vertical Curve
		RW	Retaining Wall	VOI	
HT.	Height	RT	Right		Volume
CWT	Hundredweight	RHF	Right—Hand Forward	WM	Water Main
HYD	Hydrant	R/W	3	W∨ W	Water Valve
NL	Inlet		Right-of-Way		West
D	Inside Diameter	R	River	WB	Westbound
		RD	Road	YD	Yard

ORDER OF SECTION 2 SHEETS:

- WRITTEN MATERIAL
- TYPICAL SECTIONS - CONSTRUCTION DETAILS
- EROSION CONTROL DETAILS
- PERMANENT SIGNING DETAILS
- PAVEMENT MARKING DETAILS
- TRAFFIC CONTROL/DETOUR DETAILS
- ALIGNMENT DETAILS

UTILITIES

COMMUNICATION LINE

CENTURYLINK ATTN: MICHAEL VANDEN BOS 2426 75TH AVENUE OSCEOLA, WI 54020 OFFICE (715) 294-2463 EMAIL: mike.vandenbos@centurylink.com

COMMUNICATION LINE

AT&T DISTRIBUTION ATTN: RICK PODOLAK 304 SOUTH DEWEY ST., 4TH FL. EAU CLAIRE, WI 54701 OFFICE (715) 839-5565 cell: (715) 410-0656 EMAIL: rp4514@att.com

ELECTRIC

DUNN ENERGY COOPERATIVE ATTN: MIKE ANDRASCHKO PO BOX 220 MENOMONIE, WI 54751 OFFICE (715) 232-6240 EMAIL: mandra@dunneneray.com

COMMUNICATION LINE

WEST WISCONSIN TELCOM COOPERATIVE ATTN: BRADLEY SCHMIDTKNECHT 5808 OLD MILL PLAZA EAU CLAIRE, WI 54703 OFFICE (715) 231-0504 EMAIL: brads@wwt.coop



* DENOTES UTILITY IS NOT A MEMBER OF DIGGERS HOTLINE

CONTACTS

DESIGN CONSULTANT:

JEWELL ASSOCIATES ENGINEERS, INC. 560 SUNRISE DRIVE SPRING GREEN, WI 53588 ATTN: FRED GRUBER, P.E., P.L.S. PH: (608) 588-7484 E-MAIL: fred.gruber@jewellassoc.com

DNR LIAISON:

STATE OF WISCONSIN DNR WEST CENTRAL REGION HQ 1300 W. CLAIREMONT AVENUE EAU CLAIRE, WI 54702 ATTN: CHRIS WILLGER PH: (715) 839-1609 E-MAIL: christopherj.willger@wisconsin.gov

WISDOT:

WISCONSIN DEPARTMENT OF TRANSPORTATION 718 W. CLAIREMONT AVENUE EAU CLAIRE, WI 54701 ATTN: TYLER RONGSTAD, P.E. PH: (715) 461-0372 E-MAIL: tyler.rongstad@dot.wi.gov

DUNN COUNTY HIGHWAY DEPARTMENT:

3303 US HIGHWAY 12 EAST MENOMONIE, WI 54751 PH: (715) 232-2181 SHOP PH: (715) 232-3888 E-MAIL: hwy@co.dunn.wi.us

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE, AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION. EXACT LOCATIONS OF EBS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE SEEDED (USE SEED MIX NO. 20), FERTILIZED (TYPE B), AND COVERED WITH E-MAT OR MULCHED AS DIRECTED BY THE ENGINEER IN THE FIELD. ALL POST CONSTRUCTION WET AREAS SHALL BE SEEDED WITH SEED MIX NO. 60.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN

SILT FENCE AND TEMPORARY DITCH CHECKS SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE SHALL BE PLACED PRIOR TO CONSTRUCTION AND SHALL BE IN PLACE PRIOR TO EXISTING STRUCTURE REMOVAL

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

FILL EXPANSION IS VARIABLE AND IS ESTIMATED AT 25%.

THE EXACT LOCATION OF FIELD ENTRANCES TO BE DETERMINED BY THE ENGINEER

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

EXISTING ENTRANCES SHALL BE RESTORED IN KIND AND THEIR LOCATION VERIFIED BY THE ENGINEER IN THE FIELD.

5-INCHES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH A 3-INCH (4 MT 58-34 S) LOWER LAYER AND A 2-INCH (4 MT 58-34 S) UPPER LAYER.

WETLANDS ARE PRESENT WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOT OPERATE EQUIPMENT BEYOND THE SLOPE INTERCEPTS FROM STA 93+10 -STA 94+25, LT & RT.

ADJUST DITCH GRADING AS NECESSARY TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

CURVE DATA IS BASED ON THE ARC DEFINITION.

MULCH OR COVER WITH E-MAT ALL MAINLINE SLOPES AS DIRECTED BY ENGINEER

THE LOCATION OF ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO PLACEMENT.

PROJECT NO: 7105-00-72

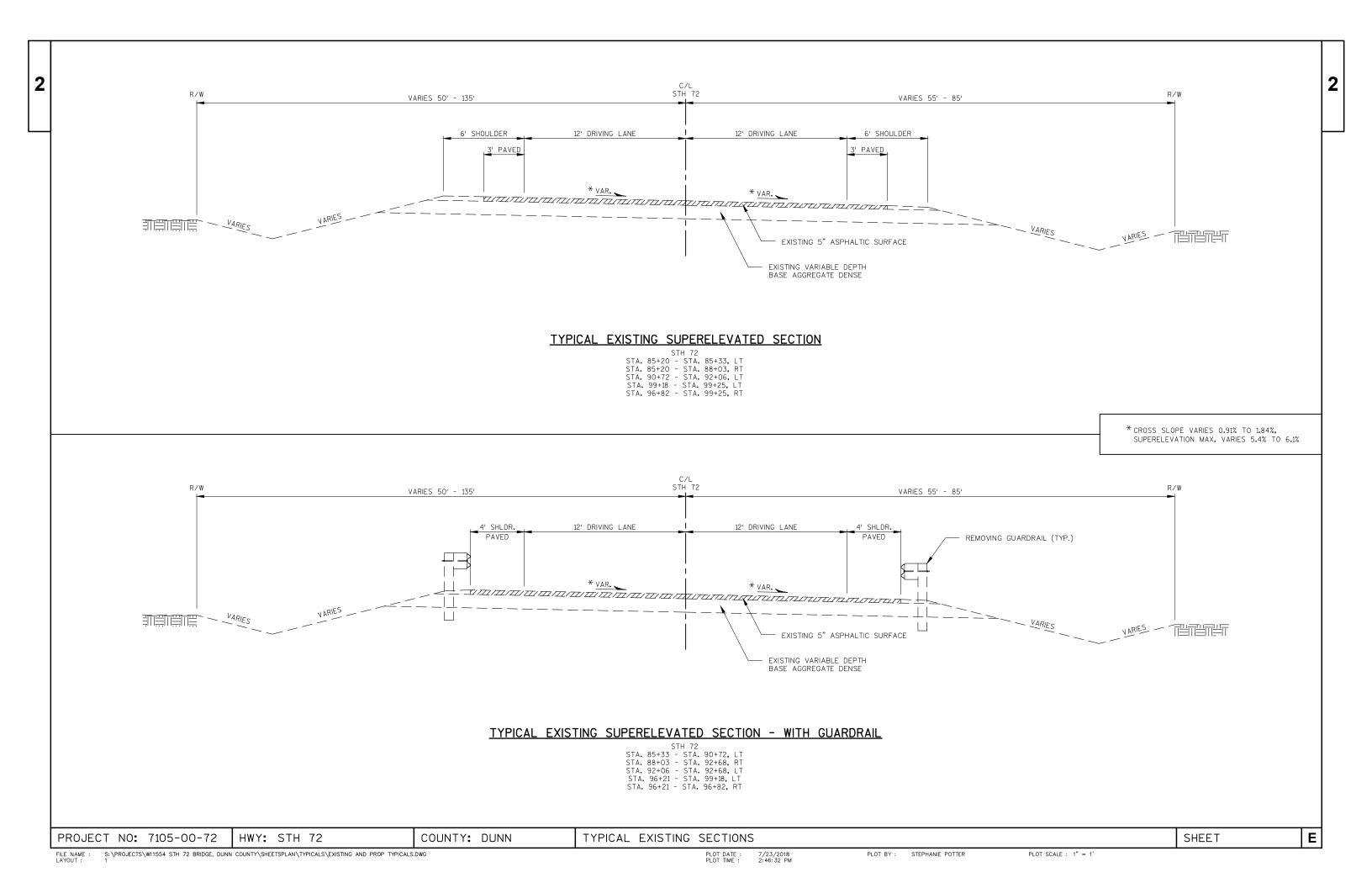
HWY: STH 72

COUNTY: DUNN

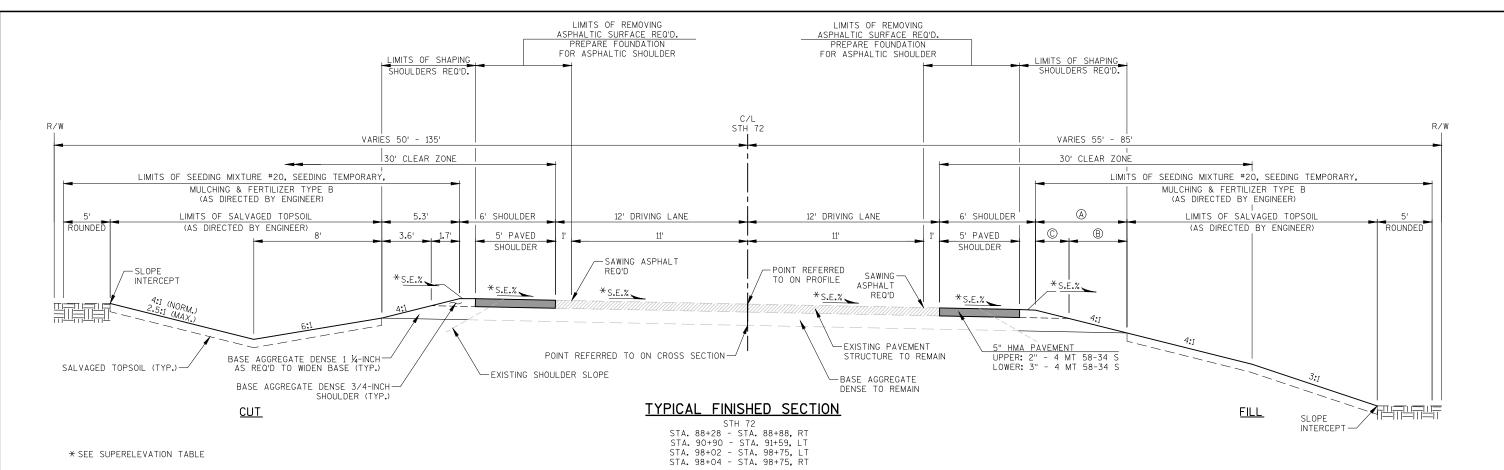
GENERAL NOTES, CONTACTS, & UTILITIES

SHEET

Ε







SUPERELEVATION TABLE

STATION	LEFT	RIGHT	А	В	С	STATION	LEFT	RIGHT	Α	В	С
85+20	5.5	5.5	6.4	4.3	2.1	92+75	2.0	2.0			
85+50	5.3	5.3	6.3	4.2	2.1	93+00	2.0	2.0			
86+00	5.2	5.2	6.3	4.2	2.1	93+50	2.0	2.0			
86+50	5.1	5.1	6.3	4.2	2.1	94+00	2.0	2.0			
87+00	5.4	5.4	6.4	4.3	2.1	94+50	2.0	2.0			
87+50	5.6	5.6	6.4	4.3	2.1	95+00	2.0	2.0			
88+00	5.6	5.6	6.4	4.3	2.1	95+50	2.0	2.0			
88+50	5.6	5.6	6.4	4.3	2.1	96+00	2.0	2.0			
89+00	5.7	5.7	6.5	4.3	2.2	96+50	2.0	2.0			
89+50	5.7	5.7	6.5	4.3	2.2	96+70	2.0	2.0			
90+00	5.4	5.4	6.4	4.3	2.1	97+00	0.9	2.0			
90+50	4.4	4.4	6.1	4.0	2.0	97+23	0.0	2.0			
90+90	MATCH EXIST.	MATCH EXIST.				97+50	1.0	2.0			
91+00	4.6	4.6	6.1	4.1	2.0	97+76	2.0	2.0			
91+50	2.7	2.7	5.6	3.7	1.9	98+00	2.9	2.9	5.7	3.8	1.9
91+69	2.0	2.0				98+50	4.8	4.8	6.2	4.1	2.1
92+00	2.0	0.8	-	-		98+75	MATCH EXISTING	MATCH EXISTING			
92+22	2.0	0.0			-	99+00	5.1	5.1	6.3	4.2	2.1
92+50	2.0	1.1				99+25	5.2	5.2	6.3	4.2	2.1

THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION WHEN THE SUPERELEVATION IS GREATER THAN 0.04 FT./FT. IF THE SUPERELEVATION IS LESS THAN OR EQUALS 0.04 FT./FT., THEN THE LOW SIDE SHOULDER SLOPE IS 0.04 FT./FT. THE HIGH SIDE SHOULDER SLOPE ON THE SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION.

SHAPING STH 72 SHOULDERS R/W REQ'D. 85' 30' CLEAR ZONE LIMITS OF SEEDING MIXTURE #20, SEEDING TEMPORARY, MULCHING & FERTILIZER TYPE B 6' SHOULDER 12' DRIVING LANE (AS DIRECTED BY ENGINEER) \triangle LIMITS OF SALVAGED TOPSOIL 4' PAVED ROUNDED (AS DIRECTED BY ENGINEER) SHOULDER $^{\otimes}$ 0 S.E.%* S.E.% * BASE AGGREGATE DENSE-3/4-INCH SHOULDER EXISTING PAVEMENT STRUCTURE -TO REMAIN BASE AGGREGATE — DENSE TO REMAIN -SALVAGED TOPSOIL (TYP.) **FILL** -SLOPE INTERCEPT

TYPICAL FINISHED PARTIAL SECTION **BEAM GUARD REMOVAL**

STH 72 STA. 85+20 - STA. 90+90, LT STA. 87+96 - STA. 88+28, RT STA. 98+75 - STA. 99+25, LT

SHEET

Ε

* SEE SUPERELEVATION TABLE

S:\PROJECTS\W11554 STH 72 BRIDGE, DUNN COUNTY\SHEETSPLAN\TYPICALS\EXISTING AND PROP TYPICALS.DWG SUPER

HWY: STH 72

PROJECT NO: 7105-00-72

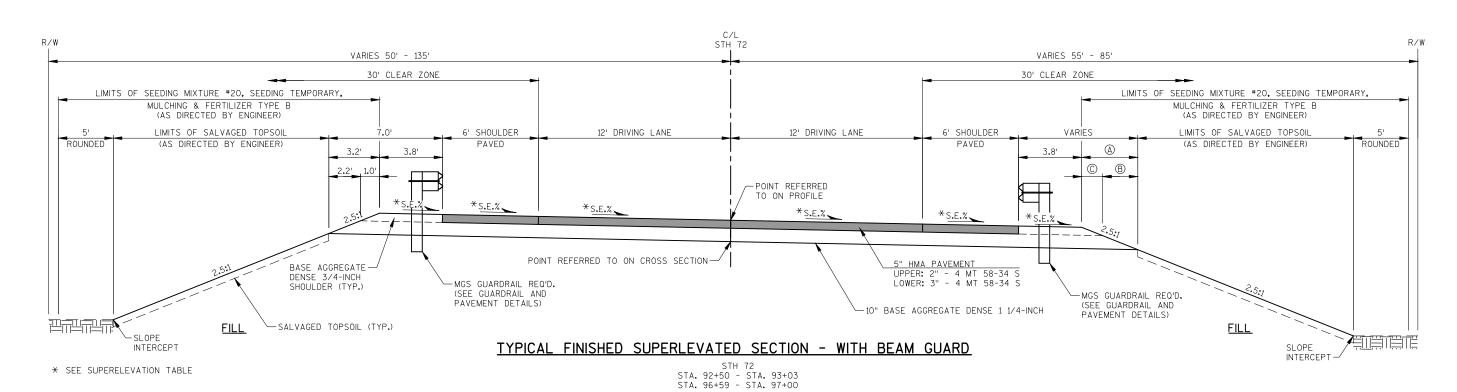
TYPICAL FINISHED SECTIONS

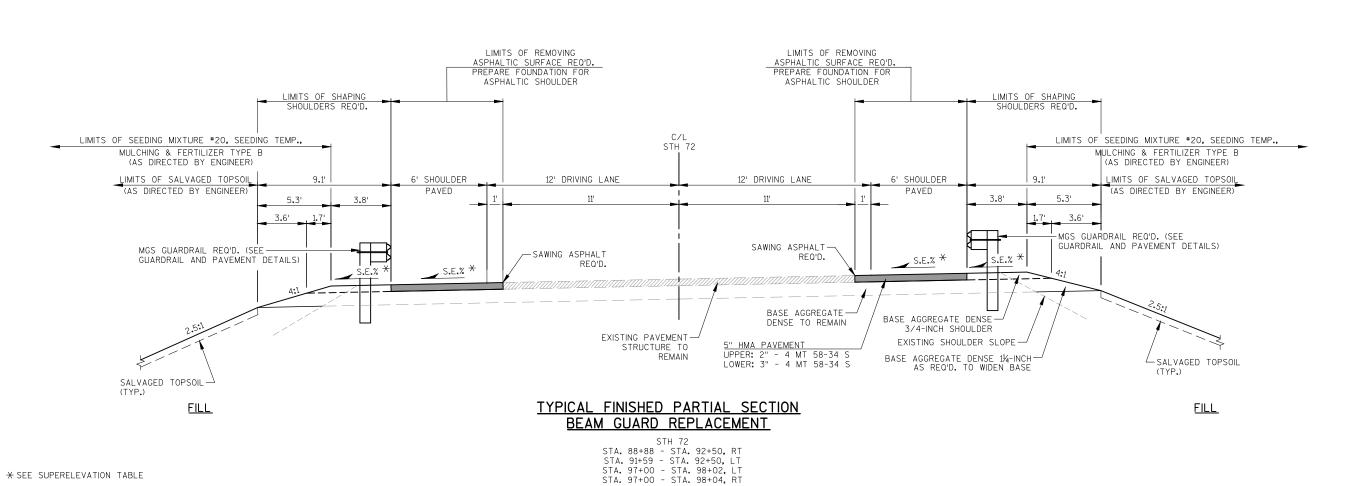
PLOT BY: STEPHANIE POTTER

PLOT SCALE : 1" = 1'

COUNTY: DUNN







TYPICAL FINISHED SECTIONS

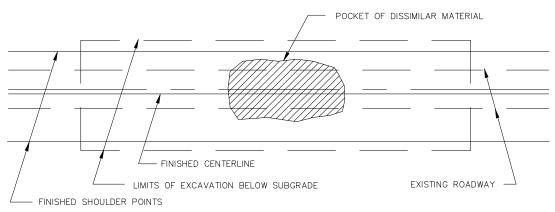
HWY: STH 72

COUNTY: DUNN

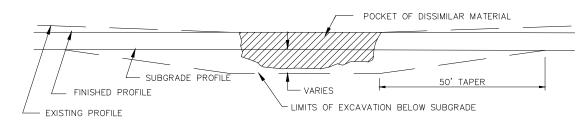
PROJECT NO: 7105-00-72

Ε

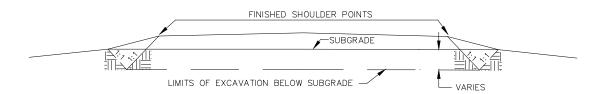
SHEET



PLAN VIEW



PROFILE VIEW



CROSS SECTION VIEW

- 1. EXACT LOCATION OF E.B.S. (EXCAVATION BELOW SUBGRADE) SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- 2. E.B.S. AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER. BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.
- 3. THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED. LATERAL LIMITS OF EXCAVATION SHALL BE THE SUBGRADE SHOULDER POINTS.

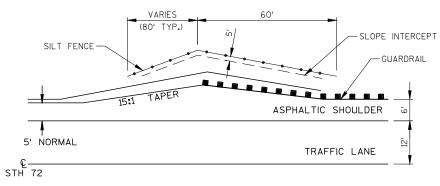
EXCAVATION BELOW SUBGRADE (E.B.S.)

					Н	YDROLOGIC	SOIL	GROU	JP			
		,	4		ı	3		(0	D		
	S		RANGE CENT)	SLOPE RANGE (PERCENT)			S		RANGE CENT)	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 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT												
ASPHALT						.70 -	95					
CONCRETE						.80 -	95					
BRICK	.70 – .80											
DRIVES, WALK	S	.75 – .85										
ROOFS	S .75 – .95											
GRAVEL ROAD	S, SH	OULDE	ERS			.40 -	60					

TOTAL PROJECT AREA = 5.38 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 2.94 ACRES

PROJECT NO: 7105-00-72 CONSTRUCTION DETAILS, HSG CHART SHEET Ε HWY: STH 72 COUNTY: DUNN

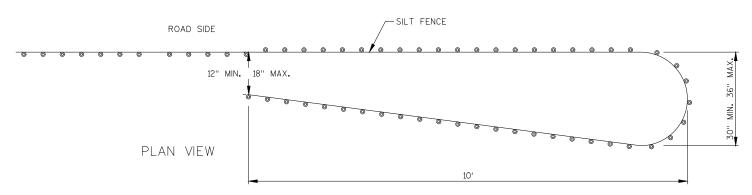




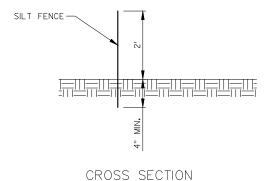
DETAIL FOR ASPHALTIC SHOULDER AND SILT FENCE AT BEAM GUARD

STH 72

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

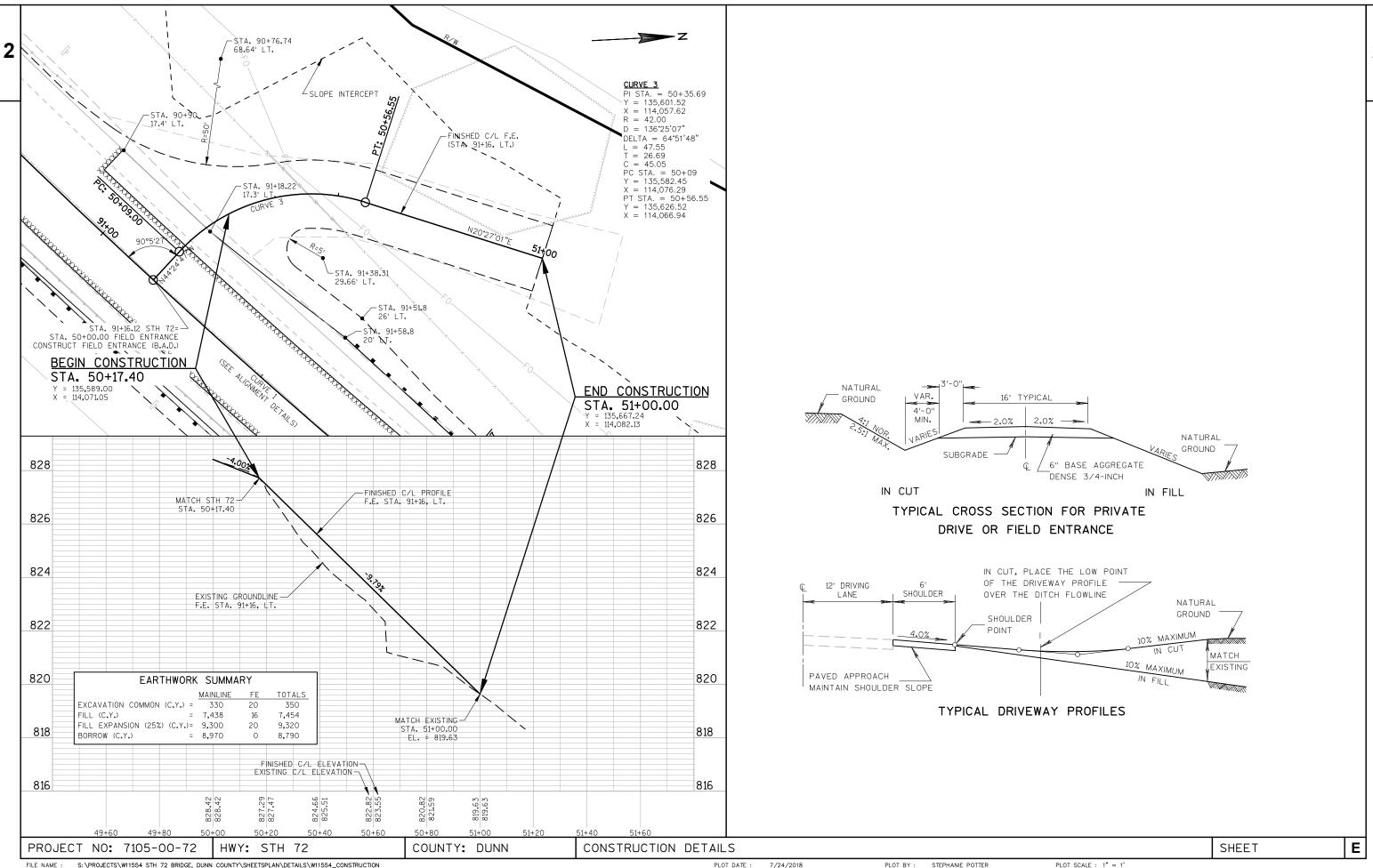


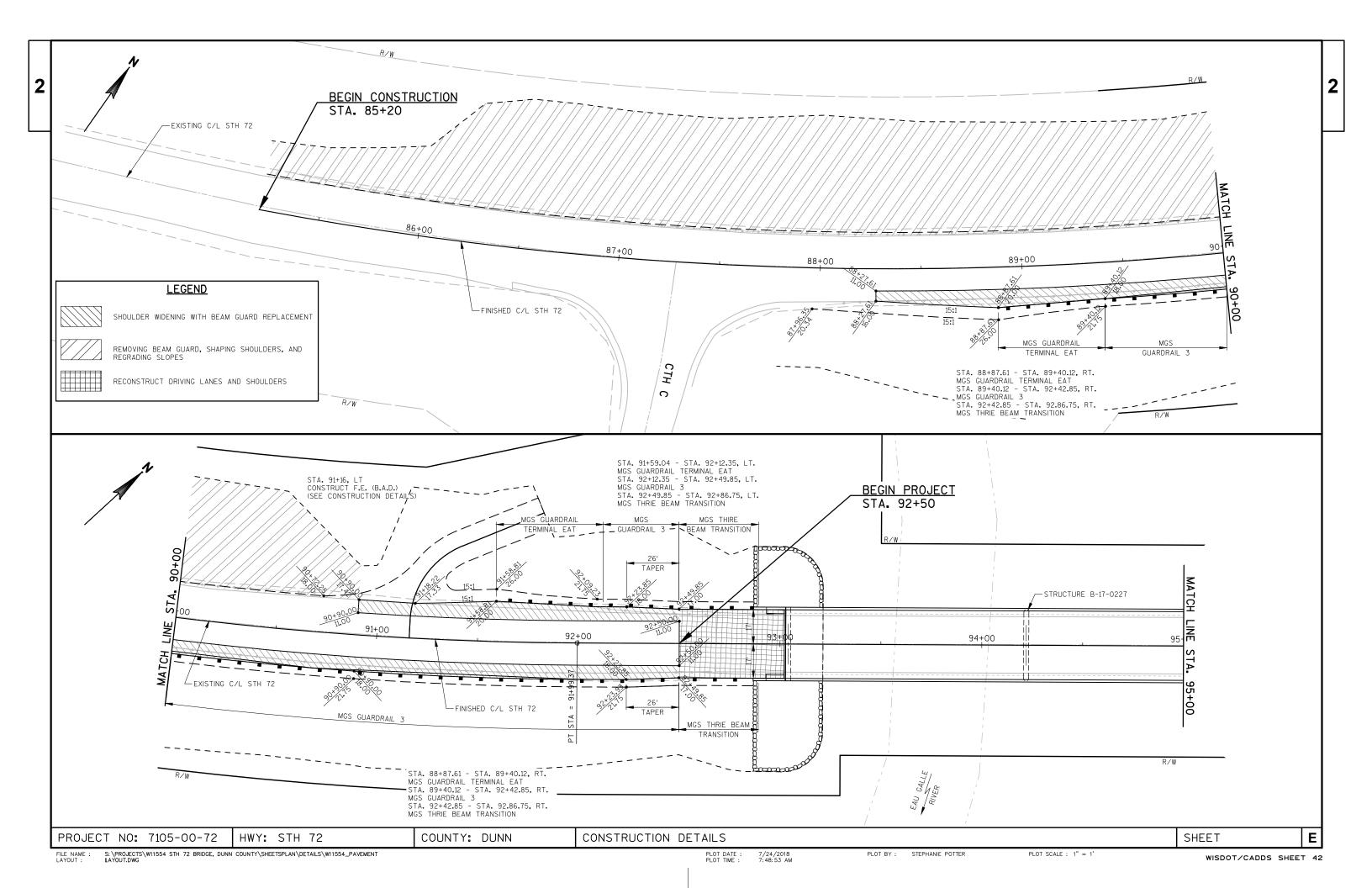
NOTE: SILT FENCE POSTS FOR THE TURN-AROUND SHOULD BE ON THE OUTSIDE OF THE TURN-AROUND

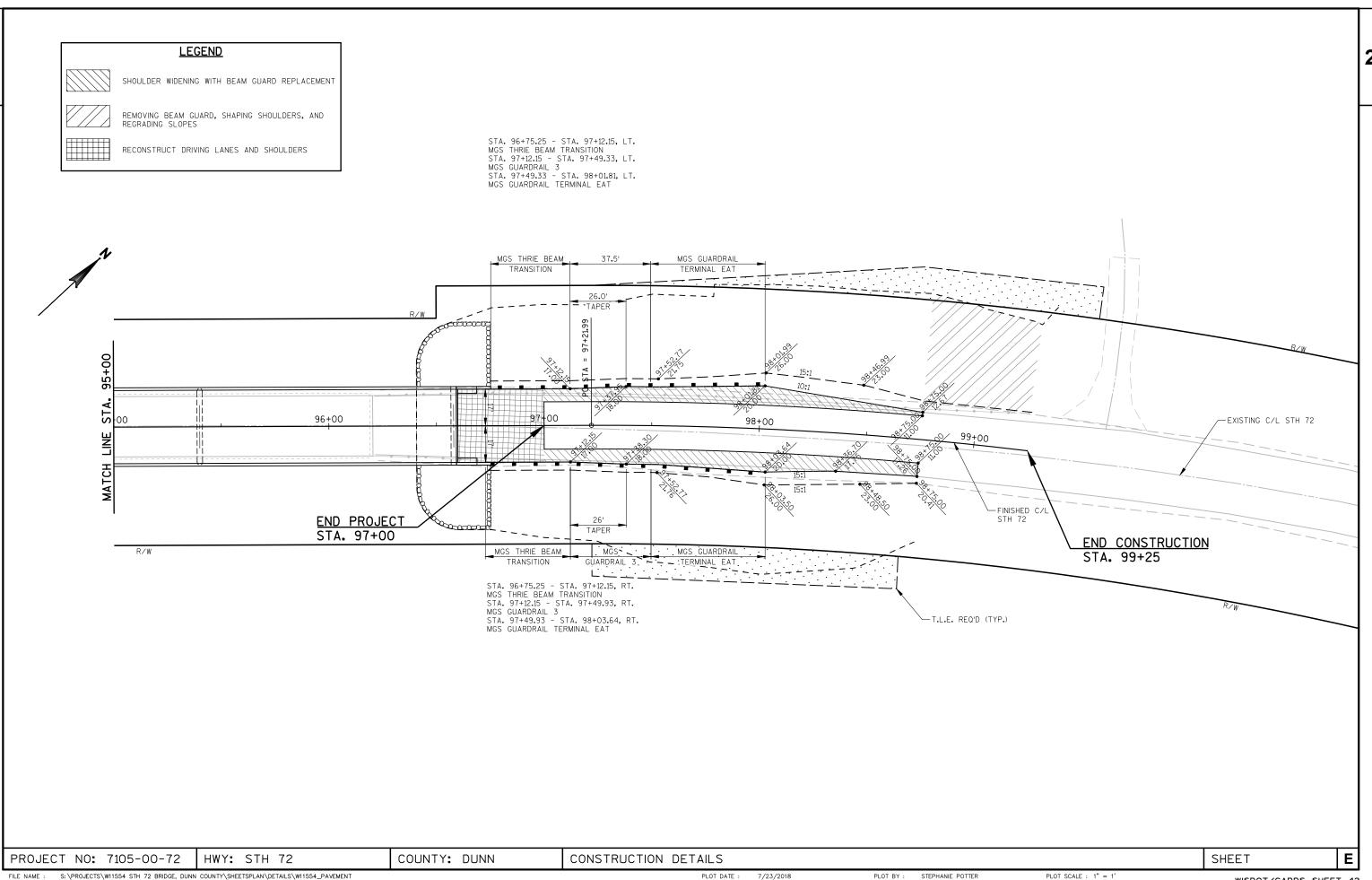


SILT FENCE TURN-AROUND DETAIL

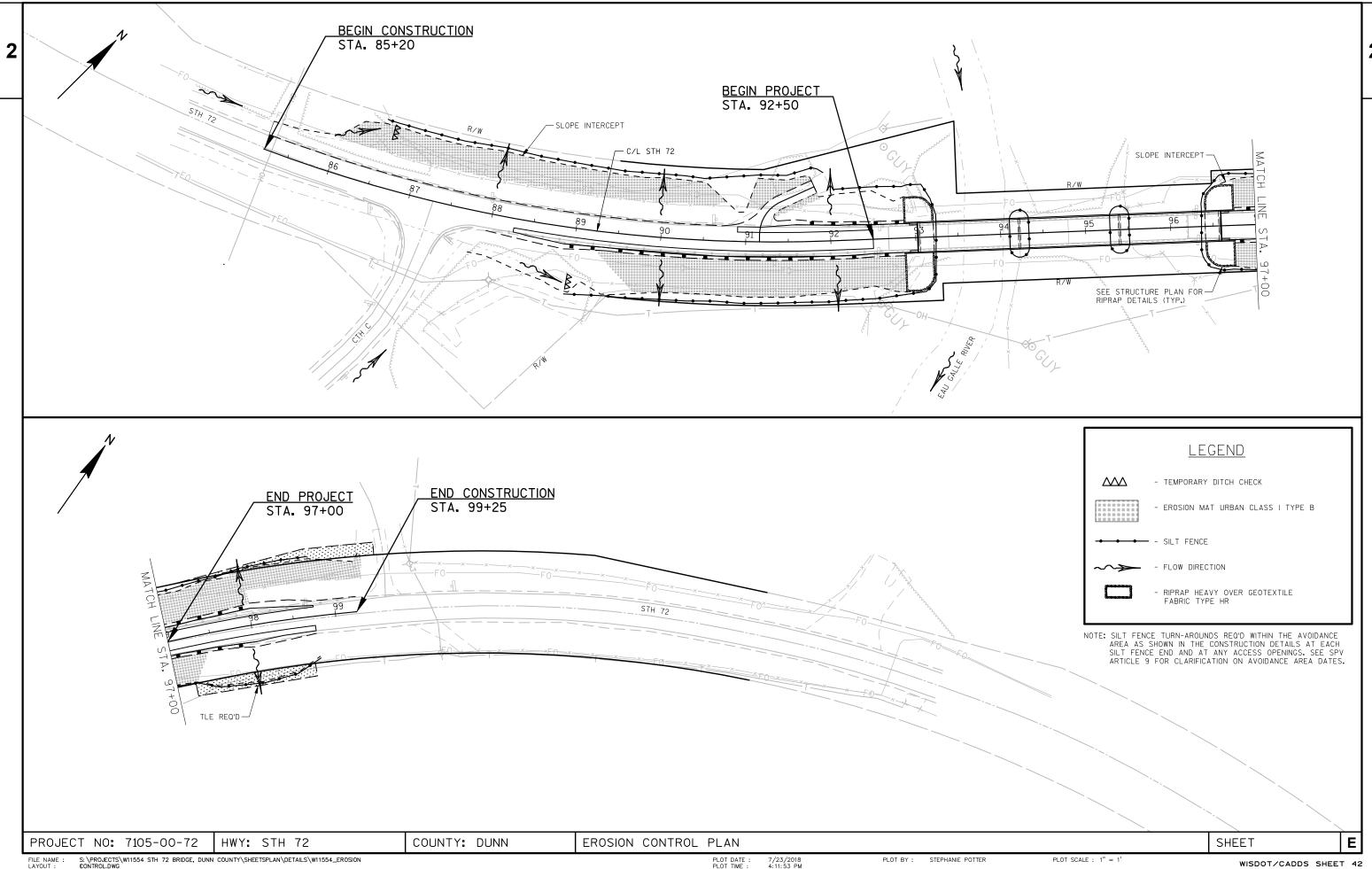
PROJECT NO: 7105-00-72 HWY: STH 72 COUNTY: DUNN CONSTRUCTION DETAILS SHEET **E**



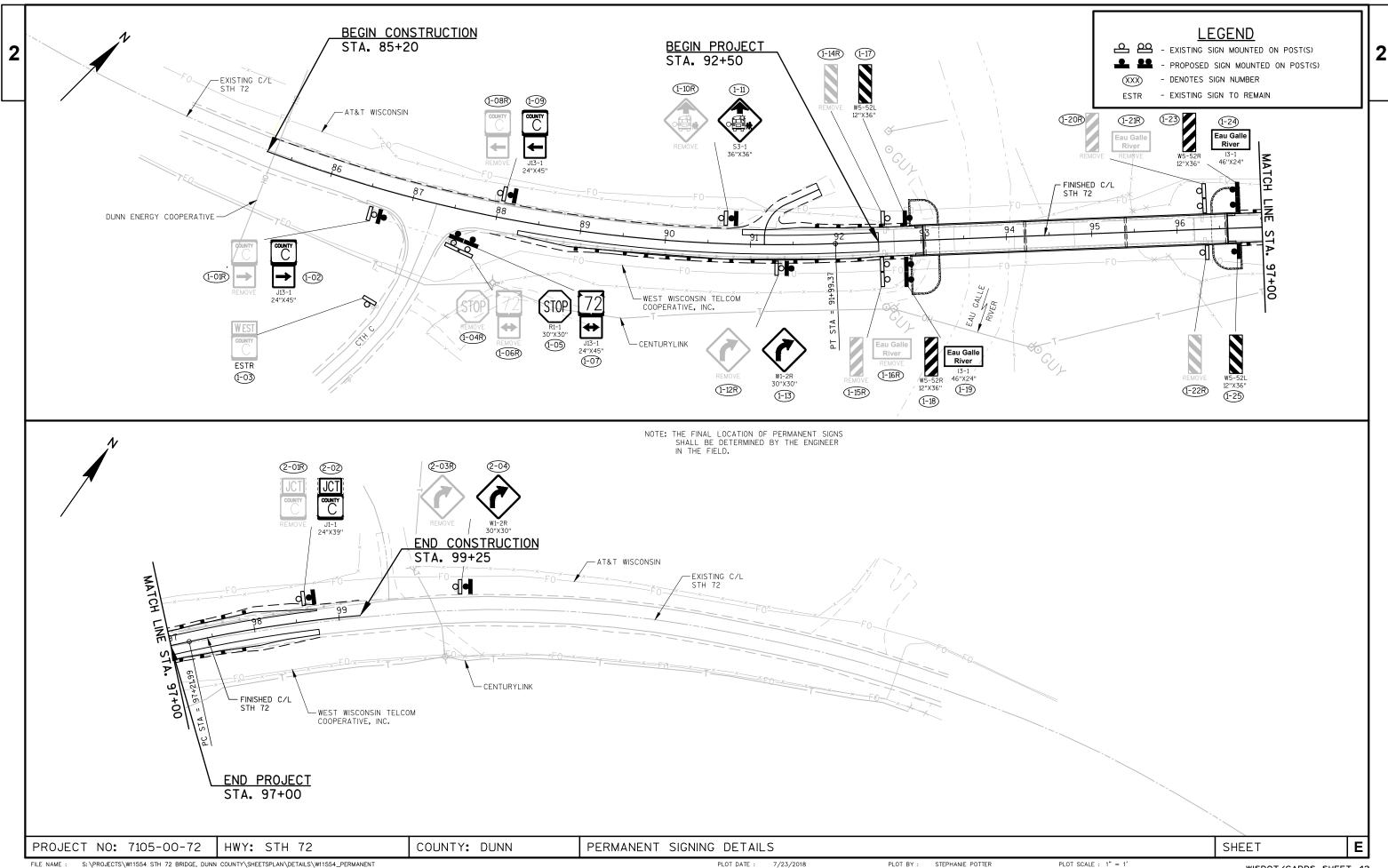


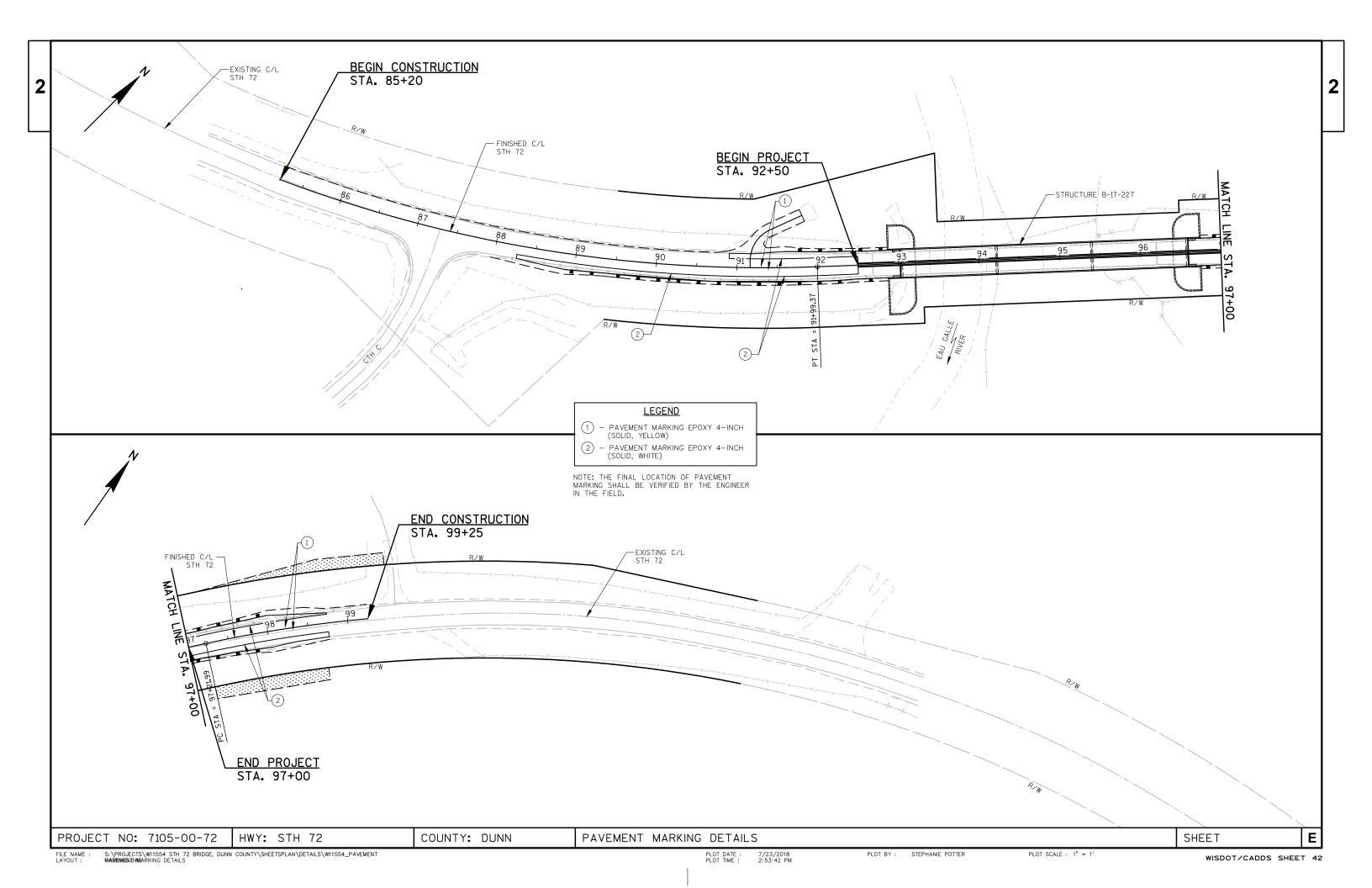


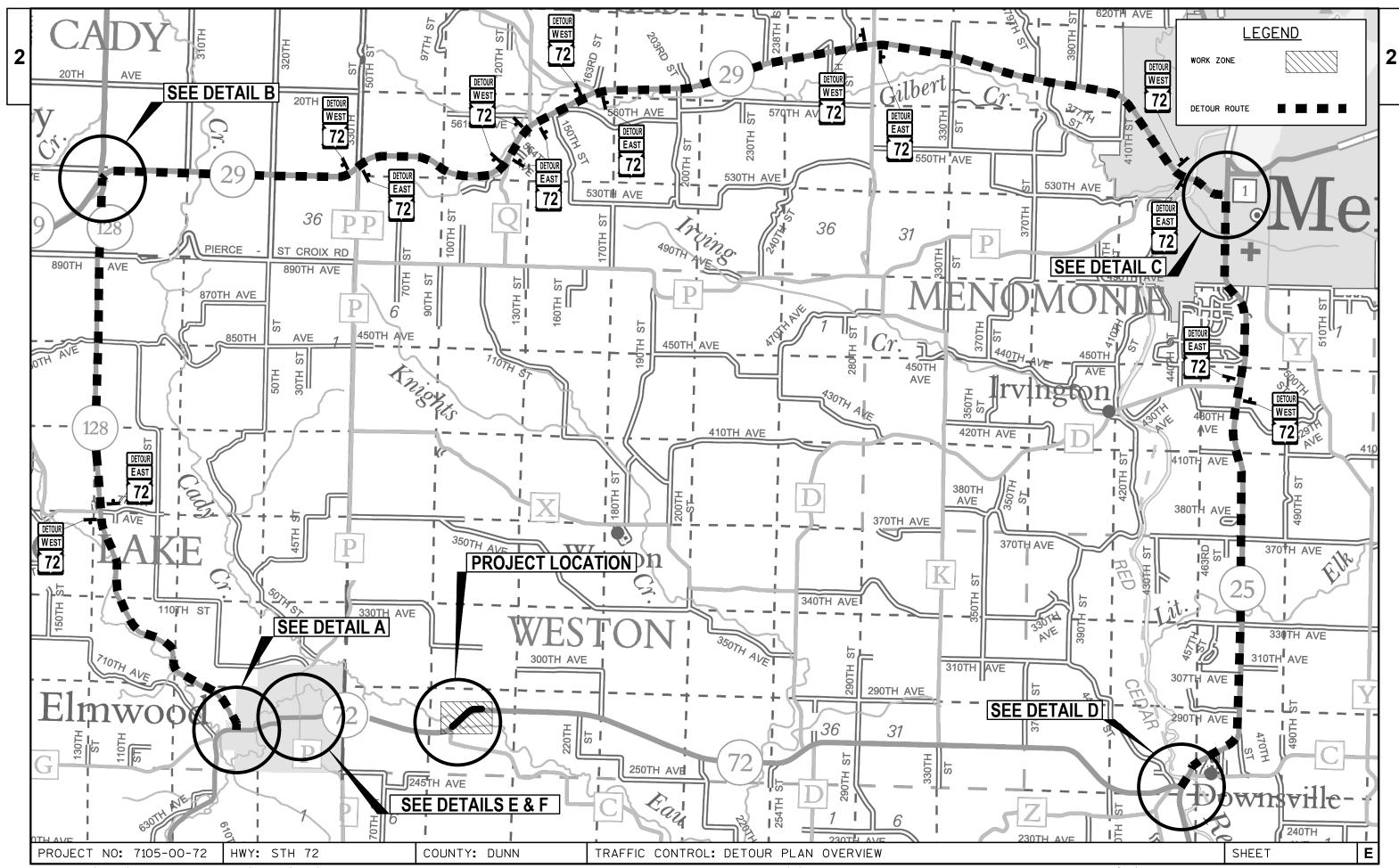
S:\PROJECTS\W11554 STH 72 BRIDGE, DUNN COUNTY\SHEETSPLAN\DETAILS\W11554_PAVEMENT EAYOUT.DWG

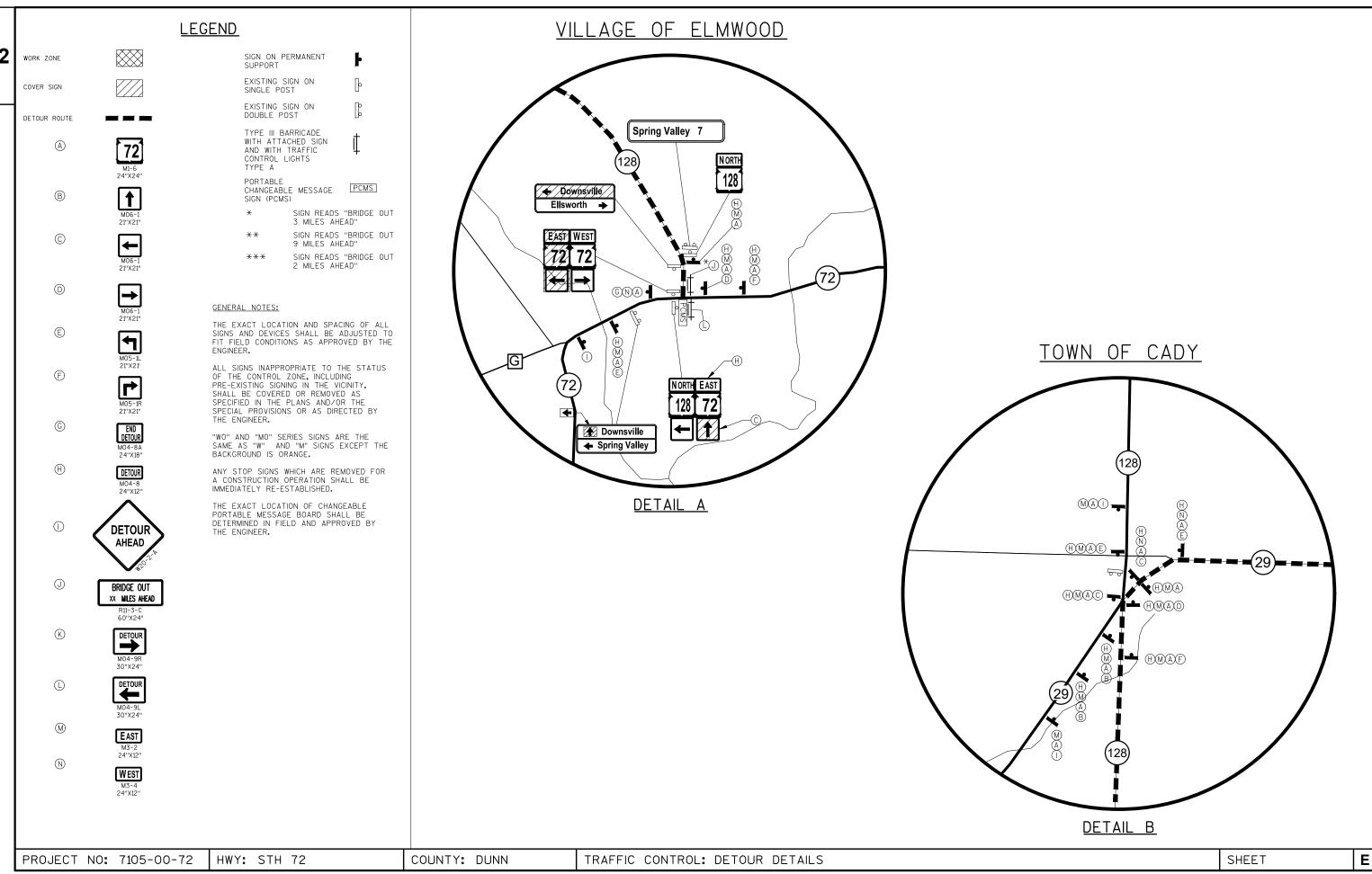


PLOT DATE : PLOT TIME :

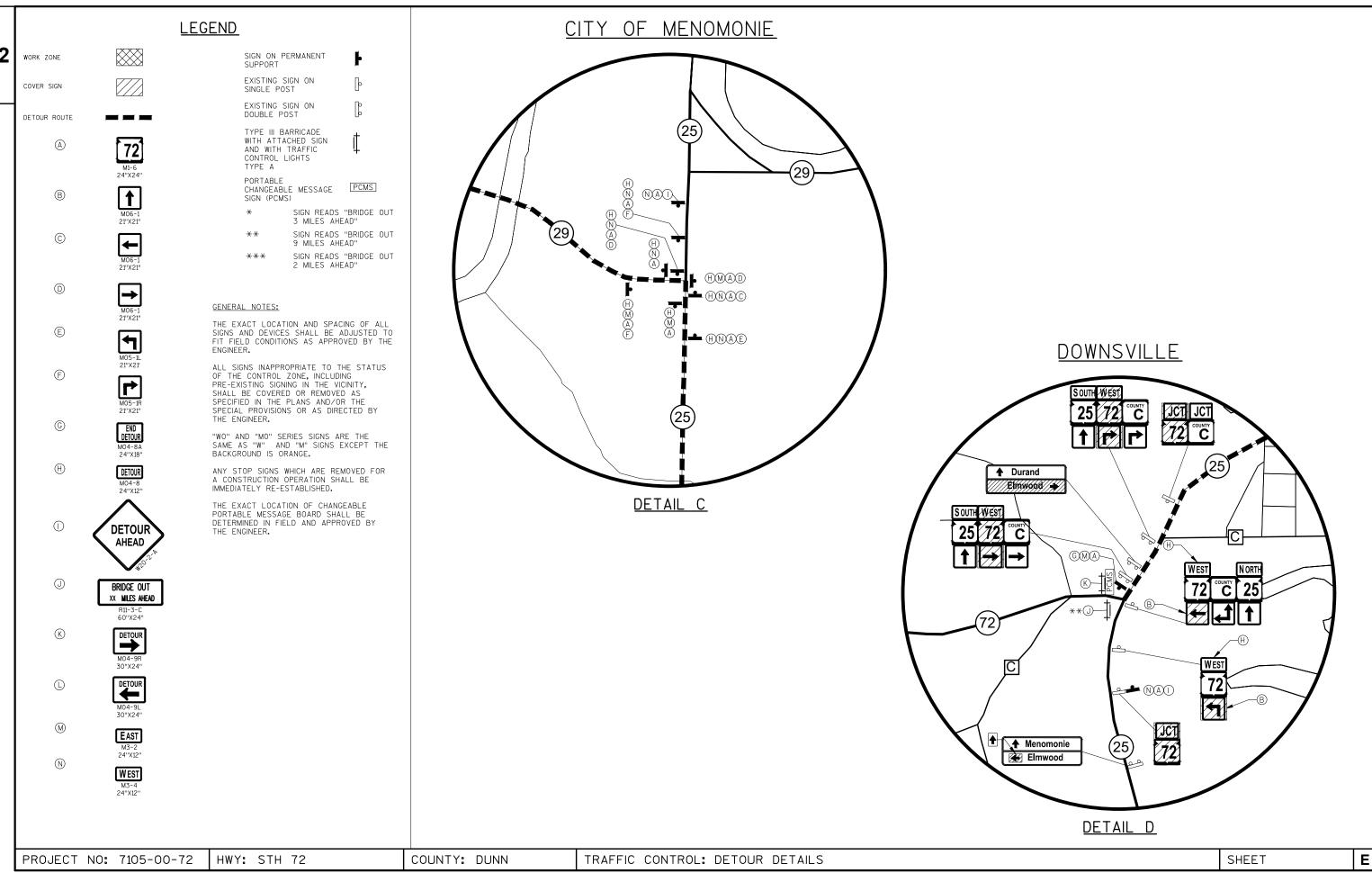






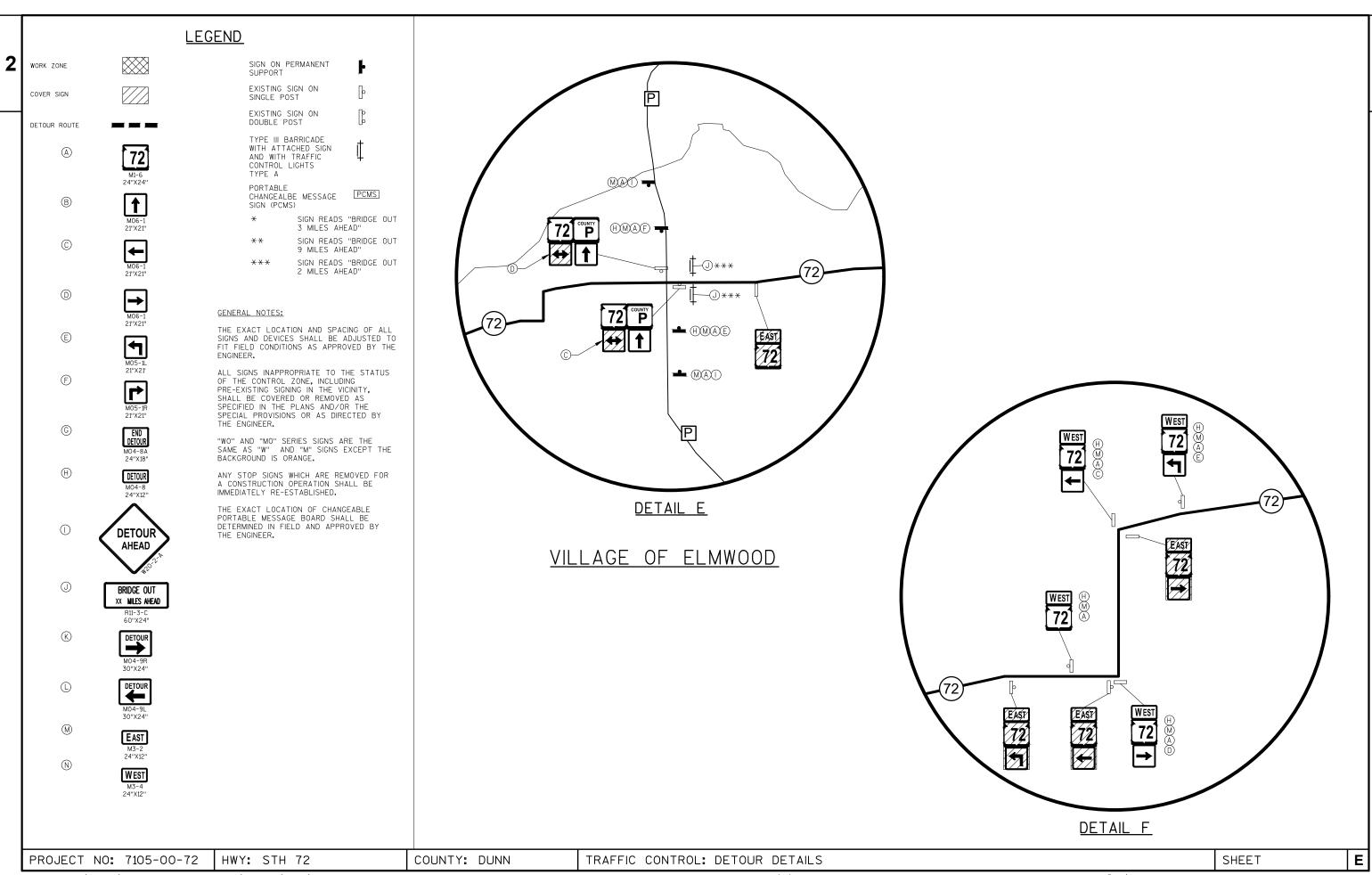


FILE NAME: S:\PROJECTS\W11554 STH 72 BRIDGE, DUNN COUNTY\SHEETSPLAN\DETAILS\W11554_DETOUR.DWG
PLOT DATE: 9/16/2019 PLOT BY: THEODORE HERBERS PLOT SCALE: 1" = 1'
WISDOT/CADDS SHEET 42
LAYOUT: 2: 3:19:40 PM



ILE NAME: S:\PROJECTS\W11554 STH 72 BRIDGE, DUNN COUNTY\SHEETSPLAN\DETAILS\W11554_DETOUR.DWG PLOT BY: THEODORE HERBERS PLOT SCALE: 1" = 1'
AYOUT: 3

WISDOT/CADDS SHEET 42



ILE NAME: S:\PROJECTS\W11554 STH 72 BRIDGE, DUNN COUNTY\SHEETSPLAN\DETAILS\W11554_DETOUR.DWG

PLOT DATE: 9/16/2019 PLOT BY: THEODORE HERBERS PLOT SCALE: 1" = 1'

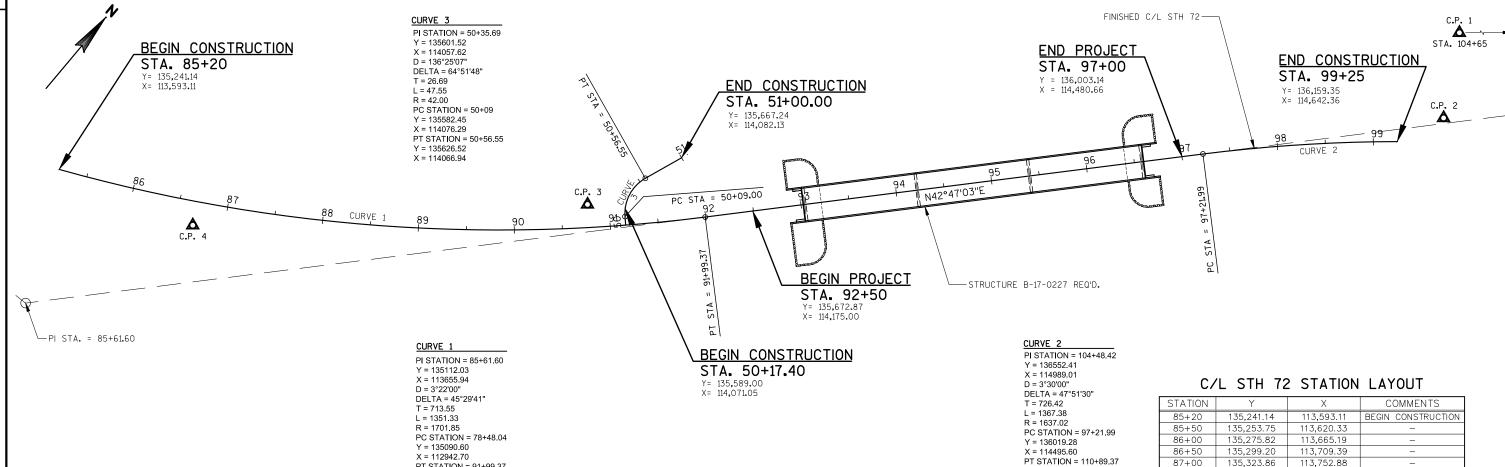
AYOUT: 4

PLOT TIME: 3:21:21 PM

WISDOT/CADDS SHEET 42







▲ CONTROL POINTS/ ⊕ BENCH MARKS

NO.	STATION	DESCRIPTION	Y	Х	ELEV.
1	104+65	3/4" REBAR SET 31.7' LT.	136,463.16	115,093.72	821.69
2	99+73	3/4" REBAR SET 25.2' LT.	136,209.21	114,663.53	824.44
3	90+78	3/4" REBAR SET 24.1' LT.	135,566.96	114,038.30	827.15
4	86+68	3/4" REBAR SET 25.0' RT.	135,286.04	113,737.22	832.90

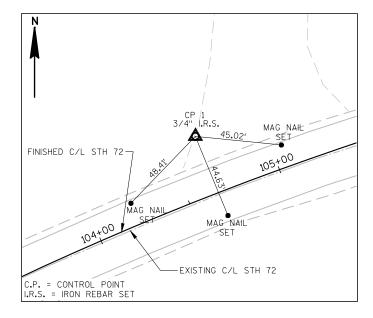
STATION	Y	X	COMMENTS
85+20	135,241.14	113,593.11	BEGIN CONSTRUCTION
85+50	135,253.75	113,620.33	-
86+00	135,275.82	113,665.19	=
86+50	135,299.20	113,709.39	_
87+00	135,323.86	113,752.88	_
87+50	135,349.80	113,795.63	_
88+00	135,376.98	113,837.59	_
88+50	135,405.38	113,878.74	_
89+00	135,434.97	113,919.04	_
89+50	135,465.74	113,958.45	_
90+00	135,497.65	113,996.94	-
90+50	135,530.68	114,034.47	_
91+00	135,564.80	114,071.02	_
91+50	135,599.97	114,106.55	_
92+00	135,636.18	114,141.04	_
92+50	135,672.87	114,175.00	BEGIN PROJECT
93+00	135,709.57	114,208.96	_
93+02.75	135,711.59	114,210.83	END OF DECK
93+50	135,746.27	114,242.92	_
94+00	135,782.96	114,276.89	_
94+50	135,819.66	114,310.85	_
95+00	135,856.35	114,344.81	_
95+50	135,893.05	114,378.77	_
96+00	135,929.74	114,412.73	_
96+50	135,966.44	114,446.69	_
96+59.25	135,973.23	114,452.98	END OF DECK
97+00	136,003.14	114,480.66	END OF PROJECT
97+50	136,039.67	114,514.79	-
98+00	136,075.24	114,549.92	-
98+50	136,109.73	114,586.13	_
99+00	136,143.10	114,623.36	_
99+25	136,159.35	114,642.36	END CONSTRUCTION

COUNTY: DUNN ALIGNMENT DETAILS SHEET Ε PROJECT NO: 7105-00-72 HWY: STH 72

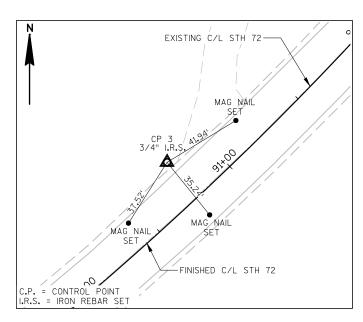
PT STATION = 91+99.37

Y = 135635.72 X = 114140.61

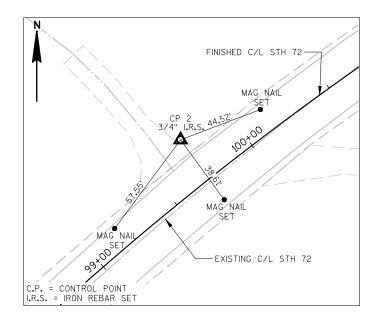
Y = 136544.27 X = 115715.39



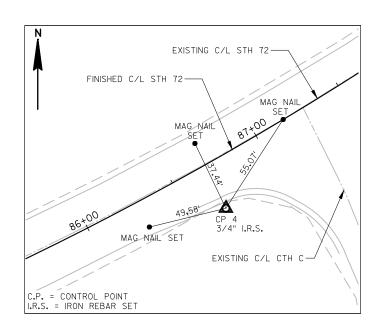
TIES TO C.P.#1
STA. 104+65; 31.7' LT.
Y = 136,463.16
X = 115,093.72



TIES TO C.P.#3 STA. 90+78; 24.1' LT. Y = 135,566.96 X = 114,038.30



TIES TO C.P.#2
STA. 99+73; 25.2' LT.
Y = 136,209.21
X = 114,663.53



TIES TO C.P.#4

STA. 86+68; 25.0' RT.

Y = 135,286.04

X = 113,737.22

PROJECT NO: 7105-00-72 HWY: STH 72 COUNTY: DUNN ALIGNMENT DETAILS

					Lotimate of	Tage 1
					7105-00-72	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	12.000	12.000	
0004	201.0205	Grubbing	STA	12.000	12.000	
0006	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 95+00	LS	1.000	1.000	
8000	204.0110	Removing Asphaltic Surface	SY	440.000	440.000	
0010	204.0165	Removing Guardrail	LF	1,430.000	1,430.000	
0012	205.0100	Excavation Common	CY	350.000	350.000	
0014	206.1000	Excavation for Structures Bridges (structure) 01. B-17-227	LS	1.000	1.000	
0016	206.5000	Cofferdams (structure) 01. B-17-227	LS	1.000	1.000	
0018	208.0100	Borrow	CY	8,950.000	8,950.000	
0020	210.1500	Backfill Structure Type A	TON	534.000	534.000	
0022	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	7.000	7.000	
0024	213.0100	Finishing Roadway (project) 01. 7105-00-72	EACH	1.000	1.000	
0026	305.0110	Base Aggregate Dense 3/4-Inch	TON	370.000	370.000	
0028	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	520.000	520.000	
0030	305.0500	Shaping Shoulders	STA	10.000	10.000	
0032	455.0605	Tack Coat	GAL	60.000	60.000	
0034	460.2000	Incentive Density HMA Pavement	DOL	220.000	220.000	
0036	460.6244	HMA Pavement 4 MT 58-34 S	TON	330.000	330.000	
0038	502.0100	Concrete Masonry Bridges	CY	783.000	783.000	
0040	502.3200	Protective Surface Treatment	SY	1,347.000	1,347.000	
0042	502.3210	Pigmented Surface Sealer	SY	383.000	383.000	
0044	503.0155	Prestressed Girder Type I 54W-Inch	LF	1,773.000	1,773.000	
0046	505.0400	Bar Steel Reinforcement HS Structures	LB	11,270.000	11,270.000	
0048	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	127,840.000	127,840.000	
0050	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	30.000	30.000	
0052	506.4000	Steel Diaphragms (structure) 01. B-17-227	EACH	24.000	24.000	
0054	516.0500	Rubberized Membrane Waterproofing	SY	22.000	22.000	
0056	550.1140	Piling Steel HP 14-Inch X 73 Lb	LF	2,200.000	2,200.000	
0058	550.2106	Piling CIP Concrete 10 3/4 X 0.365-Inch	LF	2,600.000	2,600.000	
0060	606.0300	Riprap Heavy	CY	495.000	495.000	
0062	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	138.000	138.000	
0064	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000	
0066	614.2300	MGS Guardrail 3	LF	430.000	430.000	
0068	614.2500	MGS Thrie Beam Transition	LF	160.000	160.000	
0070	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000	
0072	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7105-00-72	EACH	1.000	1.000	
0074	619.1000	Mobilization	EACH	1.000	1.000	

					7105-00-72	2	
Line	Item	Item Description	Unit	Total	Qty		
0076	624.0100	Water	MGAL	7.000	7.000	0	
0078	625.0500	Salvaged Topsoil	SY	9,000.000	9,000.000		
0800	627.0200	Mulching	SY	11,000.000	11,000.000		
0082	628.1504	Silt Fence	LF	2,500.000	2,500.000		
0084	628.1520	Silt Fence Maintenance	LF	12,500.000	12,500.000	0	
0086	628.1905	Mobilizations Erosion Control	EACH	8.000	8.000		
8800	628.1910	Mobilizations Emergency Erosion Control	EACH	7.000	7.000	0	
0090	628.2008	Erosion Mat Urban Class I Type B	SY	7,200.000	7,200.000	0	
0092	628.7504	Temporary Ditch Checks	LF	32.000	32.000	0	
0094	629.0210	Fertilizer Type B	CWT	7.000	7.000	0	
0096	630.0120	Seeding Mixture No. 20	LB	140.000	140.000	0	
0098	630.0160	Seeding Mixture No. 60	LB	5.000	5.000	0	
0100	630.0200	Seeding Temporary	LB	70.000	70.000	0	
0102	630.0300	Seeding Borrow Pit	LB	90.000	90.000	0	
0104	633.5100	Markers Row	EACH	15.000	15.000	0	
0106	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	14.000	14.000	0	
0108	637.2210	Signs Type II Reflective H	SF	49.520	49.520	0	
0110	637.2230	Signs Type II Reflective F	SF	33.500	33.500	0	
0112	638.2602	Removing Signs Type II	EACH	14.000	14.000	0	
0114	638.3000	Removing Small Sign Supports	EACH	14.000	14.000	0	
0116	642.5001	Field Office Type B	EACH	1.000	1.000	0	
0118	643.0420	Traffic Control Barricades Type III	DAY	3,200.000	3,200.000	0	
0120	643.0705	Traffic Control Warning Lights Type A	DAY	3,520.000	3,520.000	0	
0122	643.0900	Traffic Control Signs	DAY	36,160.000	36,160.000	0	
0124	643.0920	Traffic Control Covering Signs Type II	EACH	10.000	10.000	0	
0126	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000	0	
0128	643.5000	Traffic Control	EACH	1.000	1.000	0	
0130	645.0111	Geotextile Type DF Schedule A	SY	70.000	70.000	0	
0132	645.0120	Geotextile Type HR	SY	865.000	865.000		
0134	646.1020	Marking Line Epoxy 4-Inch	LF	2,735.000	2,735.000		
0136	650.4500	Construction Staking Subgrade	LF	1,130.000	1,130.000	0	
0138	650.5000	Construction Staking Base	LF	772.000	772.000		
0140	650.6500	Construction Staking Structure Layout (structure) 01. B-17-227	LS	1.000	1.000	0	
0142	650.9910	Construction Staking Supplemental Control (project) 01. 7105-00-72	LS	1.000	1.000	0	
0144	650.9920	Construction Staking Slope Stakes	LF	1,130.000	1,130.000	0	
0146	690.0150	Sawing Asphalt	LF	1,173.000	1,173.000		
0148	715.0502	Incentive Strength Concrete Structures	DOL	4,698.000	4,698.000	0	
0150	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000	0	

09/24/2019 07:52:58

Estimate Of Quantities

Page	3
------	---

					7105-00-72
Line	Item	Item Description	Unit	Total	Qty
0152	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0154	SPV.0060	Special 01. Pile Dynamic Analyzer (PDA) Testing	EACH	4.000	4.000
0156	SPV.0060	Special 02. Pile Dynamic Analyzer (PDA) Restrikes	EACH	4.000	4.000
0158	SPV.0060	Special 03. CAse Pile Wave Analysis Program (CAPWAP) Evaluation	EACH	2.000	2.000

Г				T				<u> </u>			T			Т			
		CLEARING &	GRUBBING		REMOV	ING ASPHALTIC	C SURFAC	E	REMO\	/ING GUARDF	RAIL	PREP	PARE FOUNDATIO	N		TEGORY 010 UNLESS	
			201.0105	201.0205			20	4.0110	• .		204.0165	FOR ASI	PHALTIC SHOULD	ERS	SHA	APING SHOULI	DERS
	STATION	LOCATION	CLEARING (STA)	GRUBBING (STA)	STATION 88+28 - 92+50	LOCATION MAINLINE, SHLDRS		(SY) 190	STATION 85+33 - 90+73	LOCATION	(LF)			211.0400	STATION	LOCATION	305.0500 (STA.)
	87+80 - 89+30 91+00 - 92+00	MAINLINE, RT. F.E., LT.	3 1	3	90+90 - 92+50	MAINLINE, SHLDRS	S LT.	95	88+03 - 92+69	MAINLINE, LT. MAINLINE, RT.	540 466	STATION 88+28 - 92+50	LOCATION MAINLINE	(STA) 5	85+20 - 88+28	MAINLINE, LT.	3
	92+60 - 95+20 MA	AINLINE, LT. & RT.	4	4	97+00 - 98+75 97+00 - 98+75	MAINLINE, SHLDRS MAINLINE, SHLDRS		35 120	92+05 - 92+69 96+20 - 99+18	MAINLINE, LT. MAINLINE, LT.	64 298	97+00 - 98+75	MAINLINE	2	88+28 - 92+50 97+00 - 98+75	MAINLINE MAINLINE	4 2
	96+60 - 99+20	MAINLINE, LT.	4	4		,			96+20 - 96+82	MAINLINE, RT.	62		TOTAL =	7	98+75 - 99+25	MAINLINE, LT.	1
		TOTALS =	12	12		TOTAL =		440		TOTAL =	1,430					TOTALS =	10
\$				DRK SUMMARY						625.0500 SALVAGEI		FINISHING 628.200 EROSION I URBAN CLA	8 MAT 629.0210	630.0120 SEEDING MIXTURE	G SEEDING	630.0200 SEEDING	630.0300 SEEDING BORROW
			205.0100 EXCAVATION		MASS					TOPSOIL	MULCHING	TYPE B	B TYPE B	NO. 20	NO. 60	TEMPORARY	PIT
			COMMON UI	NEXPANDED FILL	ORDINATE +/-	208.0100 BORROW		TION - 88+00	LOCATION MAINLINE, LT.	(SY) 1.190	(SY) 770	(SY) 770	(CWT) 0.5	(LB) 21	(LB) 	(LB) 10	(LB)
	STATION	LOCATION	(CY) (1)	FILL (25%) (CY) (2)	(CY) (3)	(CY)	88+00	- 90+90	MAINLINE	2,875	1,275	2,210	0.8	34		17	-
	85+20 - 88+00 88+00 - 90+90	MAINLINE, LT. MAINLINE	4	1265 1582 3395 4245	-1582 -4241	1582 4241		- 98+75 - 99+25	MAINLINE MAINLINE, LT.	3,090 240	1,720 145	2,505 150	1.1 0.1	46 4	*3 	23 2	
	90+90 - 93+50 96+60 - 98+75	MAINLINE MAINLINE	178 148	525 656 1907 2384	-478 -2236	478 2236	50+17	- 51+00	FE BORROW PIT	100 	 4,915	245	0.2 3.1	7		3	- 73
	98+75 - 99+25 50+17 - 51+00	MAINLINE, LT. F.E.	0 20	330 413 16 20	-413 0	413		1	JNDISTRIBUTED	1,505	2,175	1,320	1.2	28	2	15	17
		TOTALS =	350	7,438 9,300	-	8,950	*STA. 9	93+32 - 94+22	TOTALS	= 9,000	11,000	7,200	7.0	140	5	70	90
	NOTES: 1.) AVAILABLE MAT	ERIAL = CUT (INCLU	JDES SALVAGED	PAVEMENT MATERIAL)					ЫΜΔ	PAVEMENT							
	2.) FILL 25%: (UNEX	PANDED FILL)*1.25		,	ITITY () ID 10 A TEO				ПІЛІА					MGS	GUARDRAIL		
	,			ΓΗΕ DIVISION. PLUS QUAN A SHORTAGE OF MATERIA						455.0605	460.6244 HMA PAVEME	NT					
										TACK COAT	4MT 58-34S					614.2500	614.2610
F					1		4	STATION 88+28 - 92+50	LOCATION MAINLINE, RT.	(GAL) 17	(TON) 95						GS GUARDRAIL FERMINAL EAT
		BASE AGGRE	EGATE DENS	SE	l v	VATER		90+90 - 92+50	MAINLINE, LT.	7	37		ATION LOCATION D - 92+89 MAINLINE, L		(LF) 40	(LF)	(EACH)
			305.0110	305.0120		624.0100		92+50 - 93+03 96+60 - 97+00	MAINLINE MAINLINE	10 8	57 44		3 - 92+89 MAINLINE, F		310	40	1
			ASE AGGREGATE DENSE 3/4-INCH	BASE AGGREGATE DENSE 1 1/4-INCH	PROJECT			97+00 - 98+75 97+00 - 98+75	MAINLINE, LT. MAINLINE, RT.	7	40 40		3 - 98+02 MAINLINE, L 3 - 98+04 MAINLINE, F		40 40	40 40	1 1
		LOCATION	(TON) 107	(TON)	7105-00-7	2 7		97 100 - 90 173	UNDISTRIBUTE	D	17	_	TOTALS		430	160	4
	88+28 - 92+50 N	MAINLINE, RT.	68	68	TOTAL =	7			TOTALS =	60	330		TOTALS	5 - 4	430	160	4
	90+90 - 92+50 N 92+50 - 93+03	MAINLINE, LT. MAINLINE	28 11	52 150								T '			MODILIZ	ATION EDOCIO	
	96+60 - 97+00	MAINLINE	7	113	TEMPOR	ARY DITCH CH	ECKS	PAV	EMENT MAR	KING EPOXY	4-INCH				MORILIZA	ATION EROSIO	JN CONTROL
	97+00 - 98+75 98+75 - 99+25 N	MAINLINE MAINLINE, LT.	60 10	113 						646.1020			MADKEDO DOM			628.1905	628.1910 MOBILIZATIONS
	50+17 - 51+00 UN	F.E. NDISTRIBUTED	60 19	 24	STATION	LOCATION	628.7504 (LF)	STATION	LOCATION	(LF)	DESCRIPTION	_	MARKERS ROW			MOBILIZATIONS	EMERGENCY
	O.	_				MAINLINE, LT. MAINLINE, RT.	· I	88+28 - 98+75 92+50 - 97+00	MAINLINE MAINLINE	1050 900	WHITE EDGELINE DOUBLE YELLOW		LOCATION	633.5100 (EACH)		EROSION CONTROL	EROSION CONTROL
		TOTALS =	370	520		NDISTRIBUTED		90+90 - 98+75	MAINLINE	785	WHITE EDGELINE	89+43.27	MAINLINE, 85.08' LT.	(EACH)	PROJECT 7105.00.72	(EACH) 8	(EACH)
		SILT F	ENCE			TOTAL =	32		TOTAL =	2,735		91+20.38 93+50.00	MAINLINE, 85.02' LT. MAINLINE, 135.00' LT.	1 1	7105-00-72		
				628.1520								93+50.00	MAINLINE, 50.00' LT.	1	TOTALS :	= 8	7
			628.1504	SILT FENCE			CON	STRUCTION	N STAKING			96+50.00 96+50.00	MAINLINE, 50.00' LT. MAINLINE, 65.00' LT.	1		SAWING ASPH	IAI T
	STATION	LOCATION	SILT FENCE (LF)	MAINTENANCE (LF)					CONSTRUCTION		252	97+21.99 102+00.00	MAINLINE, 65.00' LT. MAINLINE, 65.00' LT.	1 1		WANTED WOLLD	
	86+50 - 91+94	MAINLINE, LT.	530	2,650			650.45	650.500	**650.6500 STRUCTUR			104+00.00	MAINLINE, 50.00' LT.	1	STATION	LOCATION	690.0150 (L.F.)
	92+06 - 93+08 88+96 - 93+10	,	100 430	500 2,150	STATION	LOCATION	SUBGRAI	DE BASE	LAYOUT	CONTROL	STAKES	104+00.00 97+21.99	MAINLINE, 55.00' RT. MAINLINE, 55.00' RT.	<u> </u>	_ 88+28	MAINLINE, RT.	7
	93+08 - 93+25	MAINLINE	90	450	STATION 85+20 - 88+0	MAINLINE, LT.	(LF) 280	(<u>LF)</u> 	(<u>B-17-0227) (</u> 	LS) (LS) –	(LF) 280	93+30.00	MAINLINE, 55.00' RT.	1	88+28 - 92+50 90+90	MAINLINE, RT. MAINLINE, LT.	425 5
	94+10 - 94+33 95+28 - 95+51		140 140	700 700	88+00 - 90+9 90+90 - 98+7		290 427	262 427		_ _	290 427	93+30.00 91+99.37	MAINLINE, 75.00' RT. MAINLINE, 75.00' RT.	1 1	90+90 - 92+50 92+50	MAINLINE, LT. MAINLINE	160 22
	96+36 - 96+59 96+59 - 98+74		70 225	350 1,125	98+75 - 99+2	25 MAINLINE	50			_	50	89+43.27	MAINLINE, 75.00' RT.	1	_ 97+00	MAINLINE	22
	96+45 - 98+77	MAINLINE, RT.	230	1,150	50+17 - 51+0	00 FE PROJECT	83 	83 	 1	_ 1	83 		TOTALS =	15	97+00 - 98+75 97+00 - 98+75	,	264 258
		UNDISTRIBUTED	545	2,725					1		1,130				98+75	MAINLINE, LT.	3
		TOTALS =	2,500	12,500	** INDICATES	TOTALS = BID ITEM CATEGOR		112	1	1	1,130				98+75	MAINLINE, RT.	7
L			<u> </u>				ı									TOTAL =	1173
L	PROJECT NO:		HWY: S		COUNT	TY: DUNN	М	ISCELLANE	OUS QUANT							SHEET	E
	FILE NAME : S: \PROJECTS\	\W11554 STH 72 BRIDGE, D	UNN COUNTY\SHEETSPL	AN\DETAILS\MISC QUANT.DWG					PLOT	DATE: 7/31/2019 TIME: 3:22:13 PM	F	PLOT BY: STRINE, T	THERESA P	LOT SCALE : 1" =	: 1'	WIEDOT	CADDS SHEET 4

PERMANENT SIGNING

0.01	APPROV			0.01			0.01	637.2210 SIGNS TYPE II	637.2230 SIGNS TYPE II	634.0616 POSTS WOOD	638.2602 REMOVING SIGNS	638.3000 REMOVING SMALL	
	APPROX. STATION	LOCATION	DOSITION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIGN	REFLECTIVE H (SF)	(SF)	4X6-INCH 16-FT	TYPE II (EACH)	SIGN SUPPORTS	COMMENT
1-01R	86+61	Mainline	Right	J13-1	Directional Without Cardinal	[County C] [ARROW RIGHT]	24X45	(3F)	(3F)		(EACH) 1	1	COMMENT
1-011	86+61	Mainline	Right	J13-1	Directional Without Cardinal	[County C] [ARROW - RIGHT]	24X45	7.50		1			
1-03	86+87	CTHC	Right	J4-1	Bircononai viinoat Garamai	[WEST] [County C]	247(40						Existing to remain
1-04R	87+55	CTHC	Right	R1-1	Stop	[VVEOT][Goality o]	30X30				1	1	Existing to remain
1-05	87+55	CTHC	Right	R1-1	Stop		30X30	5.18		1		<u>.</u>	
1-06R	87+58	CTH C	Right	J13-1	Directional Without Cardinal	[72] [DIRECTIONAL ARROWS LEFT-RIGHT]	24X45			<u> </u>	1	1	
1-07	87+58	CTHC	Right	J13-1	Directional Without Cardinal	[72] [DIRECTIONAL ARROWS LEFT-RIGHT]		7.50		1		<u>.</u>	
1-08R	87+99	Mainline	Left	J13-1	Directional Without Cardinal	[County C] [ARROW LEFT]	24X45			<u>-</u>	1	1	
1-09	87+99	Mainline	Left	J13-1	Directional Without Cardinal	[County C] [ARROW LEFT]	24X45	7.50		1		<u></u>	
1-10R	90+64	Mainline	Left	S3-1	School Bus Stop Ahead	(, <u> </u>	36X36	-			1	1	
1-11	90+64	Mainline	Left	S3-1	School Bus Stop Ahead		36x36		9.00	1			
1-12R	91+36	Mainline	Right	W1-2R	Right Curve		30X30				1	1	
1-13	91+36	Mainline	Right	W1-2R	Right Curve		30X30		6.25	1			
1-14R	92+61	Mainline	Left	W5-52L	Clearance Striper Down Right		12X36				1	1	
1-15R	92+59	Mainline	Right	W5-52R	Clearance Striper Down Left		12X36				1	1	
1-16R	92+55	Mainline	Right	I3-1	Lake or River Name	Eau Galle	46X24				1	1	
						River							
1-17	92+86	Mainline	Left	W5-52L	Clearance Striper Down Right		12X36		3.00	1			
1-18	92+86	Mainline	Right		Clearance Striper Down Left		12X36		3.00	1			
1-19	92+86	Mainline	Right	13-1	Lake or River Name	Eau Galle	46X24	7.67		1			
						River							
1-20R	96+28	Mainline	Left		Clearance Striper Down Left		12X36				1	1	
1-21R	96+28	Mainline	Left	I3-1	Lake or River Name	Eau Galle	46X24				1	1	
						River							
1-22R	96+29	Mainline	Right		Clearance Striper Down Right		12X36				1	1	
1-23	96+76	Mainline	Left		Clearance Striper Down Left		12X36		3.00	1			
1-24	96+76	Mainline	Left	13-1	Lake or River Name	Eau Galle	46X24	7.67		1			
						River							
1-25	96+76	Mainline	Right		Clearance Striper Down Right		12X36		3.00	1			
2-01R	98+64	Mainline	Left	J1-1	Junction Assembly	[JCT] [County C]	24X39				1	1	
2-02	98+64	Mainline	Left	J1-1	Junction Assembly	[JCT] [County C]	24X39	6.50		1			
2-03R	100+37	Mainline	Left		Right Curve		30X30			-	1	1	
2-04	100+37	Mainline	Left	W1-2R	Right Curve		30X30	-	6.25	11			
						T	OTALS =	49.52	33.50	14	14	14	

TRAFFIC CONTROL

		*643.0420	*643.0705 WARNING	*643.0900	*643.0920 COVERING	NO. OF	*643.1050	*643.5000	
		BARRICADES	LIGHTS		SIGNS	CYCLES	SIGNS	TRAFFIC	
		TYPE III	TYPE A	SIGNS	TYPE II	(COVER/	PCMS	CONTROL	
	LOCATION	(DAYS)	(DAYS)	(DAYS)	(EACH)	UNCOVER)	(DAYS)	(EACH)	COMMENT
						·			VILLAGE OF ELMWOOD (STH 72/STH 128 INTERSECTION)
	STH 72 (E.B.)			320					M1-6 [72]; W20-2-A
	STH 72 (E.B.)			640					MO4-8; M3-2; M1-6 [72]; MO5-1L
	STH 72 (E.B.)			160					A1-2 (LEFT), COVER PORTION OF D1-2 (COVER ARROW AHEAD WITH ARROW LEFT)
	STH 72 (W.B.)			480					M3-4; M1-6 [72]; MO4-8A
⋖	STH 72 (E.B.)			320					MO4-8; MO6-1 (LEFT), COVER PORTION OF J3-2 (COVER ARROW AHEAD WITH ARROW LEFT)
11	STH 128 (S.B.)			160					MO4-8A; COVER PORTION OF J3-2 (EAST, 72, ARROW LEFT)
DETAIL	STH 128 (S.B.)				1	1			COVER PORTION OF D1-2 (ARROW LEFT, DOWNSVILLE)
0	STH 128 (N.B.)			480					MO4-8; M3-2; M1-6 [72]
	STH 72 (E.B.)	160	320	160			14		MO4-9L, PLACE PCMS TWO WEEKS BEFORE CLOSURE
	STH 72 (E.B.)	160	320	160					R11-3-C [3 MILES]
	STH 72 (W.B.)			640					MO4-8; M3-2; M1-6 [72]; MO6-1 (RIGHT)
	STH 72 (W.B.)			640					MO4-8; M3-2; M1-6 [72]; MO5-1R
	SUBTOTALS =	320	640	4,160	1	1	14	0	

*MORE LISTED ELSEWHERE

PROJECT NO: 7105-00-72 HWY: STH 72 COUNTY: DUNN MISCELLANEOUS QUANTITIES SHEET **E**

TRAFFIC CONTROL (CONTINUED)

		*643.0420 BARRICADES	*643.0705 WARNING LIGHTS	*643.0900	*643.0920 COVERING SIGNS	NO. OF CYCLES	*643.1050 SIGNS	*643.5000 TRAFFIC	
	LOCATION	TYPE III (DAYS)	TYPE A (DAYS)	SIGNS (DAYS)	TYPE II (EACH)	(COVER/ UNCOVER)	PCMS (DAYS)	CONTROL (EACH)	COMMENT
	200/111011	(5/110)	(5,110)	(5,110)	(2/(01))	OHOO (Zi K)	(5, (10)	(2/10/1)	TOWN OF CADY (STH 128/STH 29 INTERSECTION)
	STH 29 (E.B.)			320					M1-6 [72]; W20-2-A
	STH 29 (E.B.)			1,280					MO4-8; M3-2; M1-6 [72]; MO6-1 (AHEAD); MO4-8; M3-4; M1-6 [72]; MO5-1R
	STH 29 (E.B.)	-		1,280	_			-	MO4-8; M3-2; M1-6 [72]; MO6-1 (AHEAD); MO4-8; M3-4; M1-6 [72]; MO6-1 (RIGHT)
	STH 128 (S.B.)			480					MO4-8; M3-4; M1-6 [72]
8	STH 128 (N.B.)			640					MO4-8; M3-2; M1-6 [72]; MO5-1R
4/1	STH 128 (N.B.)			640					MO4-8; M3-2; M1-6 [72]; MO6-1 (RIGHT)
DETAIL	STH 128 (S.B.)	-		1,280	-			-	MO4-8; M3-2; M1-6 [72]; MO6-1 (LEFT); MO4-8; M3-4; M1-6 [72]; MO6-1 (AHEAD)
۵	STH 29 (W.B.)	-		640	-				MO4-8; M3-4; M1-6 [72]; MO6-1 (LEFT)
	STH 29 (E.B.)			480	-				MO4-8; M3-2; M1-6 [72]
	STH 128 (S.B.)	-		1,280	-				MO4-8; M3-2; M1-6 [72]; MO5-1L; MO4-8; M3-4; M1-6 [72]; MO6-1 (AHEAD)
	STH 128 (S.B.)	-		320	-			-	M1-6 [72]; W20-2-A
	STH 29 (W.B.)	-		640	-			-	MO4-8; M3-4; M1-6 [72]; MO5-1L
									CITY OF MENOMINIE (STH 29/STH 25 INTERSECTION)
	STH 29 (E.B.)			640					MO4-8; M3-2; M1-6 [72]; MO5-1R
	STH 29 (W.B.)			480					MO4-8; M3-4; M1-6 [72]
	STH 25 (S.B.)	_		320	_				M1-6 [72]; W20-2-A
S	STH 25 (S.B.)			1,280					MO4-8; M3-4; M1-6 [72]; MO5-1R; MO4-8; M3-2; M1-6 [72]; MO6-1 (AHEAD)
DETAIL	STH 25 (S.B.)	_		1,280	_			_	MO4-8; M3-4; M1-6 [72]; MO6-1 (RIGHT); MO4-8; M3-2, M1-6 [72]; MO6-1 (AHEAD)
DE	STH 29 (E.B.)			640					MO4-8; M3-2; M1-6 [72]; MO6-1 (RIGHT)
-	STH 25 (N.B.)			640					MO4-8; M3-2; M1-6 [72]; MO6-1 (LEFT)
	STH 25 (S.B.)			480					MO4-8; M3-2; M1-6 [72]
	STH 25 (N.B.)	_		640	-				MO4-8; M3-4; M1-6 [72]; MO5-1L
									DOWNSVILLE (STH 25/STH 72 INTERSECTION)
1	STH 25 (S.B.)				1	1			COVER PORTION OF J1-2 (JCT, 72)
	STH 25 (S.B.)				1	1			COVER PORTION OF J2-3 (WEST, 72, ADVANCE ARROW RIGHT)
	STH 25 (S.B.)				1	1			COVER PORTION OF D1-2 (ELMWOOD, ARROW RIGHT)
	STH 25 (S.B.)				1	1			COVER PORTION OF J3-3 (WEST, 72, ARROW RIGHT)
Q	STH 25 (N.B.)	_		320				_	MO4-8; MO6-1 (AHEAD), (COVER ARROW LEFT WITH ARROW AHEAD)
	STH 25 (S.B.)			480					M3-2: M1-6 [72]: MO4-8A
DETAIL	STH 25 (N.B.)			320					MO4-8; MO6-1 (AHEAD), (COVER ADVANCE ARROW LEFT WITH ARROW AHEAD)
DE	STH 25 (N.B.)	-			1	1			COVER J1-1 (JCT, 72)
	STH 25 (N.B.)			480	-	-			M3-4; M1-6 [72]; W20-2-A
	STH 25 (N.B.)			160					A1-2 (AHEAD), COVER PORTION OF D1-2 (COVER ARROW LEFT WITH ARROW AHEAD)
	STH 72 (W.B.)	160	320	160	-		14		MO4-9R, PLACE PCMS TWO WEEKS BEFORE CLOSURE
	STH 72 (W.B.)	160	320	160				-	R11-3-C [9 MILES]
									VILLAGE OF ELMWOOD (CTH P/STH 72 INTERSECTION)
1	CTHP (N.B.)			480					M3-2; M1-6 [72]; W20-2-A
	CTH P (N.B.)			640					MO4-8; M3-2; M1-6 [72]; MO5-1L
	CTH P (N.B.)			160					MO6-1 (LEFT), (COVER DIRECTIONAL ARROW LEFT-RIGHT WITH ARROW LEFT)
H.	CTHP (S.B.)			160			<u></u>	<u></u>	MO6-1 (RIGHT), (COVER DIRECTIONAL ARROW LEFT-RIGHT WITH ARROW RIGHT)
DETAIL	CTH P (S.B.)			640					MO4-8; M3-2; M1-6 [72]; MO5-1R
ET	CTH P (S.B.)	_		480					M3-2; M1-6 [72]; W20-2-A
]	STH 72 (E.B.)	160	320	160					R11-3-C [2 MILES]
	STH 72 (E.B.)	160	320	160					R11-3-C [2 MILES]
	STH 72 (E.B.)				1	1			COVER J4-1 (EAST, 72)
,									
	SUBTOTALS =	640	1,280	20,640	6	6	14	0	

*MORE LISTED ELSEWHERE

PROJECT NO: 7105-00-72 HWY: STH 72 COUNTY: DUNN MISCELLANEOUS QUANTITIES SHEET **E**

TRAFFIC CONTROL (CONTINUED)

DETAIL F	STH 72 (E.B.) STH 72 (W.B.) STH 72 (W.B.)	*643.0420 BARRICADES TYPE III (DAYS)	*643.0705 WARNING LIGHTS TYPE A (DAYS)	*643.0900 SIGNS (DAYS) 480 640 640 640	*643.0920 COVERING SIGNS TYPE II (EACH)	NO. OF CYCLES (COVER/ UNCOVER) 1 1 1 1	*643.1050 SIGNS PCMS (DAYS)	*643.5000 TRAFFIC CONTROL (EACH)	COMMENT VILLAGE OF ELMWOOD COVER J2-1 (EAST, 72, ADVANG MO4-8; M3-2; M1-6 [72] COVER J3-1 (EAST, 72, ARROW MO4-8; M3-2; M1-6 [72]; MO6-1 (F MO4-8; M3-2; M1-6 [72]; MO6-1 (L COVER J3-1 (EAST, 72, ARROW MO4-8; M3-2; M1-6 [72]; MO5-1L	/ LEFT) RIGHT) LEFT)	_
1	311172 (VV.D.)		-	040	-		-				_
	STH 128 (S.B.)			480					ALONG DETOUR ROUTE MO4-8; M3-4, M1-A [72]	LOCATION NEAR CTH B INTERSECTION	_
	STH 128 (N.B.)		-	480					MO4-8; M3-2, M1-A [72]	NEAR CTH B INTERSECTION	
	STH 29 (W.B.)		-	480					MO4-8; M3-4, M1-A [72]	NEAR CTH PP INTERSECTION	
	STH 29 (E.B.)		-	480					MO4-8; M3-2, M1-A [72]	NEAR CTH PP INTERSECTION	
	STH 29 (W.B.)		-	480	_				MO4-8; M3-4, M1-A [72]	NEAR CTH Q (S.B.) INTERSECTION	
	STH 29 (E.B.)		-	480					MO4-8; M3-2, M1-A [72]	NEAR CTHQ (S.B.) INTERSECTION	
	STH 29 (W.B.)		-	480					MO4-8; M3-4, M1-A [72]	NEAR CTH Q (N.B.) INTERSECTION	
	STH 29 (E.B.)		-	480					MO4-8; M3-2, M1-A [72]	NEAR CTH Q (N.B.) INTERSECTION	
	STH 29 (W.B.)		-	480					MO4-8; M3-4, M1-A [72]	NEAR CTH N INTERSECTION	
	STH 29 (E.B.)		-	480					MO4-8; M3-2, M1-A [72]	NEAR CTH N INTERSECTION	
	STH 29 (W.B.)		-	480					MO4-8; M3-4, M1-A [72]	NEAR CTH K INTERSECTION	
	STH 29 (E.B.)		-	480					MO4-8; M3-2, M1-A [72]	NEAR CTH K INTERSECTION	
	STH 29 (W.B.)		-	480	-				MO4-8; M3-4, M1-A [72]	NEAR CTH P INTERSECTION	
	STH 29 (E.B.)		-	480					MO4-8; M3-2, M1-A [72]	NEAR CTH P INTERSECTION	
	STH 25 (N.B.)		-	480					MO4-8; M3-4, M1-A [72]	NEAR CTH D INTERSECTION	
	STH 25 (S.B.)		_	480					MO4-8; M3-2, M1-A [72]	NEAR CTH D INTERSECTION	
									MAINLINE CLOSURE		
	STH 72	2,240	1,600	1,280					SEE STANDARD DETAIL, BARR	ICADES AND SIGNS FOR MAINLINE CLOSURES	
	PROJECT		_					1			
	SUBTOTALS =	2,240	1,600	11,360	3	3	0	1			
PF	ROJECT TOATLS =	3,200	3,520	36,160	10	10	28	1			

*MORE LISTED ELSEWHERE

COUNTY: DUNN MISCELLANEOUS QUANTITIES SHEET PROJECT NO: 7105-00-72 HWY: STH 72 Ε FILE NAME: S:\PROJECTS\W11554 STH 72 BRIDGE, DUNN COUNTY\SHEETSPLAN\DETAILS\MISC QUANT.DWG LAYOUT: LAYOUT4

R/W MONUMENT •

NON-MONUMENTED O

FOUND IRON PIN (1-INCH UNLESS NOTED) *

DEPARTMENT OF TRANSPORTATION TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 7105-00-22

NEW R/W LINE GEODETIC SURVEY MONUMENT EXISTING R/W OR HE LINE SIXTEENTH CORNER MONUMENT P.L. PROPERTY LINE OFF-PREMISE SIGN SIGN LOT. TIE & OTHER **ELLSWORTH - DOWNSVILLE** SLOPE INTERCEPT NON-COMPENSABLE ELECTRIC POLE 111111111 CORPORATE LIMITS TELEPHONE POLE UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) (EAU GALLE RIVER BRIDGE B-17-227) PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.) NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER) **STH 72** ACCESS RESTRICTED BY ACQUISITION TEMPORARY LIMITED EASEMENT AREA NO ACCESS (BY STATUTORY AUTHORITY) **DUNN COUNTY** EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT) ACCESS RESTRICTED (BY PREVIOUS NO ACCESS (NEW HIGHWAY) PARCEL NUMBER (25) (40) BUILDING TO BE REMOVED PROJECT LOCATION

SECTION LINE QUARTER LINE

SIXTEENTH LINE

NEW REFERENCE LINE

ACCESS RIGHTS

ACRES

THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 7105-00-22

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DUNN COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4"x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS. OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD"

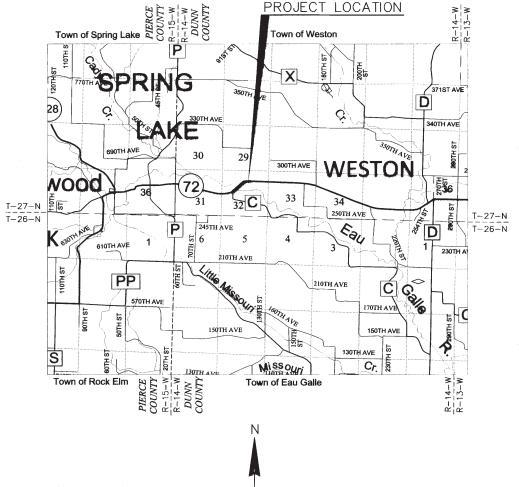
PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. EXCLUDING RIGHT-OF-WAY LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE WISCONSIN DEPARTMENT OF TRANSPORTATION

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLE'S EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: DIVISION JOB NO. 6514.



SCALE, FEET

CONVENTIONAL ABBREVIATIONS

POINT OF INTERSECTION

PROPERTY LINE

CONVENTIONAL SYMBOLS

SECTION

 \oplus

AHEAD	AH	RECORDED AS	(100'
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTICTIVE DEVELOPMENT	RDE
CENTERLINE	C/L	EASEMENT	
CERTIFIED SURVEY MAP	CSM	RIGHT	RT
CONCRETE	CONC	RIGHT OF WAY	R/W
COUNTY	CO	SECTION	SEC
COUNTY TRUNK HIGHWAY	CTH	SEPTIC VENT	SEPV
DISTANCE	DIST	SQUARE FEET	SF
CORNER	COR	STATE TRUNK HIGHWAY	STH
DOCUMENT NUMBER	DOC	STATION	STA
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED	TLE
GAS VALVE	GV	EASEMENT	
GRID NORTH	GN	TRANSPORTATION PROJECT	TPP
HIGHWAY EASEMENT	HE	PLAT	
IDENTIFICATION	ID	UNITED STATES HIGHWAY	USH
LAND CONTRACT	LC	VOLUME	٧
LEFT	LT		
MONUMENT	MON	CURVE DATA	
NATIONAL GEODETIC SURVEY	NGS	CURVE DATA	
NUMBER	NO	LONG CHORD	LCH
OUTLOT	OL	LONG CHORD BEARING	LCB
PAGE	P	RADIUS	R
POINT OF TANGENCY	PT	DEGREE OF CURVE	D
PERMANENT LIMITED	PLE	CENTRAL ANGLE	∆/DELT
EASEMENT		LENGTH OF CURVE	L
POINT OF BEGINNING	POB	TANGENT	T
POINT OF CURVATURE	PC	DIRECTION AHEAD	DA
POINT OF COMPOUND CURVE	PCC	DIRECTION BACK	DB

CONVENTIONAL UTILITY

SYMBOL	_5
WATER	w
GAS	——G—
TELEPHONE	——T——
OVERHEAD	ОН
TRANSMISSION LINES	
ELECTRIC	E
CABLE TELEVISION	tv
FIBER OPTIC	——F0
SANITARY SEWER	SAN
STORM SEWER	——ss——

PROJECT NUMBER: 7105-00-22 - 4.01 SHEET 2 OF 2

APPRAISAL PLAT DATE: September 29, 2017

PART OF THE SE%-NW%, SECTION 32, TOWNSHIP 27 NORTH, RANGE 14 WEST, TOWN OF WESTON, DUNN COUNTY, WISCONSIN.

RELOCATION ORDER STH 72, ELLSWORTH - DOWNSVILLE, DUNN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND

WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.

2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET WHICH IS SHEET 2 OF 2 OF THIS TRANSPORTATION PROJECT PLAT.

NOTE: EXISTING STH 72 RIGHT-OF-WAY SHOWN HEREON IS BASED ON DIVISION JOB NO. 6514.

	EASEMENT TABL	E	
UTILITY NUMBER	OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL #
201	WISCONSIN BELL, INC. D/B/A AT&T WISCONSIN	NO RECORD OF EASEMENT	11
202	TELEPHONE USA OF WISCONSIN, LLC D/B/A CENTURYLINK	DOC. #464942, VOL.938 PG.1	1

UTILITY INTERESTS REQUIRED

R/W ACRES REQUIRED

TOTAL

4.365

ACRES

NEW EXISTING

0.400 3.965

INTÉRES!

REQUIRED

FEE, TLE

NOTE: OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
201	WISCONSIN BELL, INC. D/B/A AT&T WISCONSIN	RELEASE OF RIGHTS
202	TELEPHONE USA OF WISCONSIN, LLC D/B/A CENTURYLINK	RELEASE OF RIGHTS

NUMBER	OWNE	ER (S)		UIRED		2	91+20.38 93+50.00	85.02' LT. 135.00' LT.	135639.594 135837.963
201	WISCONSIN BELL, INC.	D/B/A AF&T WISCONSIN	RELEASE	OF RIGHTS		4	93+50.00	50.00' LT.	135780.227
202		OF WISCONSIN, LLC CENTURYLINK	RELEASE	OF RIGHTS		5		50.00' LT. 65.00' LT. 65.00' LT.	136000.403 136010.591 136063.428
	, , , , , ,] =	8	3 102+00.00	65.00° LT. 50.00° LT.	136374.078 136454.619
55,000	7 0 000000		7	S23*29'08	3"E,	10		0.00' RT. 55.00' RT.	136408.760
RADIUS=	7-8 CURVE DATA =1702.02	KeTH LINE		50.00		12		55.00 RT. 55.00' RT. 55.00' RT.	135981.919
	NGLE=16*43'49" NGTH=496.99'			, 9 L		14	93+30.00	75.00' RT.	135680.644
TANGEN.	T=250.27'			207.44	195	b 15	91+99.37	75.00' RT.	135584.774

COORDINATE TABLE - MONUMENTED R/W POINTS STATION OFFSET 135528.030 113900.128 89+43.27 85.08' LT. 114025.976 114143.844 114206.227 114409.999 114398.990 114447.891 114833.562 115024.726 115044.652 115066.570 114535.961 114269.704 114284.382 114195.655 89+43.27 75.00' RT. 135402.915 113999.984 89+43.27 0.00' LT. 135461.534 113953.199

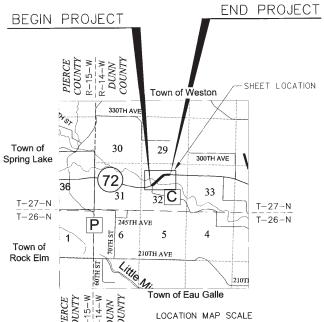
625397 DUNN COUNTY WI REGISTER OF DEEDS HEATHER M. KUHN RECORDED ON 10/31/2017 12:36PM REC FEE: 25.00 PAGES: 2 VOL. 9 PLATS PG 33

RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 7105-00-22-4.01 SHEET 1 OF 2

	COORDIN	IATE TABLE	- TLE POINT	S
PT.#	STATION	OFFSET	Y	×
50 51 52 53 54 55	98+70.00 99+75.00 99+75.00 98+70.00 98+70.00 97+21.99	80.00' LT. 80.00' LT. 65.00' LT. 55.00' RT. 70.00' RT.	136182.631 136253.701 136241.940 136082.363 136071.222	114547.330 114631.436 114640.745 114637.725 114647.769 114546.970

PI STA. = 104+48.42 Y = 136,552.41 X = 114,989.01 R = 1637.02D = 3.30'00'DELTA = 47*51'30"L = 1367.38T = 726.42'LCH = 1327.97' PC S1A. = 97+21.99Y = 136,019.28X = 114,495.60PT STA = 110 + 89.37Y = 136,544.27X = 115,715.39DIR. AH. = \$89°21'27"E

55.00



(SIGNATURE) Miname Page (PRINTED NAME) MICHAEL PILLER

201	WISCONSIN BELL, INC. D/B/A AT&T WISCONSIN	NO RECORD OF EASEMENT	1	TLE, SLOPES—
202	TELEPHONE USA OF WISCONSIN, LLC D/B/A CENTURYLINK	DOC. #464942, VOL.938 PG.1	1	50 Selection of the sel
Y = 1 X = 1 R = 1 D = 3 DELTA L = 1. T = 7 LCH = PC ST Y = 1 X = 1 PT ST. Y = 1 X = 1		RAD DEL' ARC TAN CHO CHO		71.99' 54 DELTA ANGLE=23'43'49" ARC LENGTH=655.23' TANGENT=332.38' CHORD LENGTH=650.55' CHORD BEARING=N54'38'58"E
W¼ COR. SEC FOUND ALUM CAP MONUM Y = 135233. X =112486.4 31 32 P.14 W	NUM ENT 197	P.L. 1444.14' N3 150 165 P.L. 60	08:35'38'W 85.08'	TOWN OF WESTON 130.63' EXISTING BRIDGE DECK PRWC 15–16 CURVE DATA RADIUS=1776.85' DELTA ANGLE=8'37'19" ARC LENGTH=267.39' TANGENT=133.95' CHORD LENGTH=267.13' CHORD BEARING=N47'05'43"E
		- KI.	1.1	SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCE

NUMBER

Engineers - Planners - Surveyors SCOTT D. WARNER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY I, SCOTT D. WARNER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY
THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF
THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE
DEPARTMENT OF TRANSPORTATION, I HAVE MAPPED THIS
TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY
REPRESENTED ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE)

(PRINTED NAME) SCOTT D. WARNER

(REGISTRATION NUMBER)

S-2524 WARNER S-2524 SCALE, FEET THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION. DATE 10/24/17

S.W. COR. SEC. 32

FOUND ALLMINUM

CAP MONUMENT

Y = 132499.563

X = 112421.700

OWNER (S)

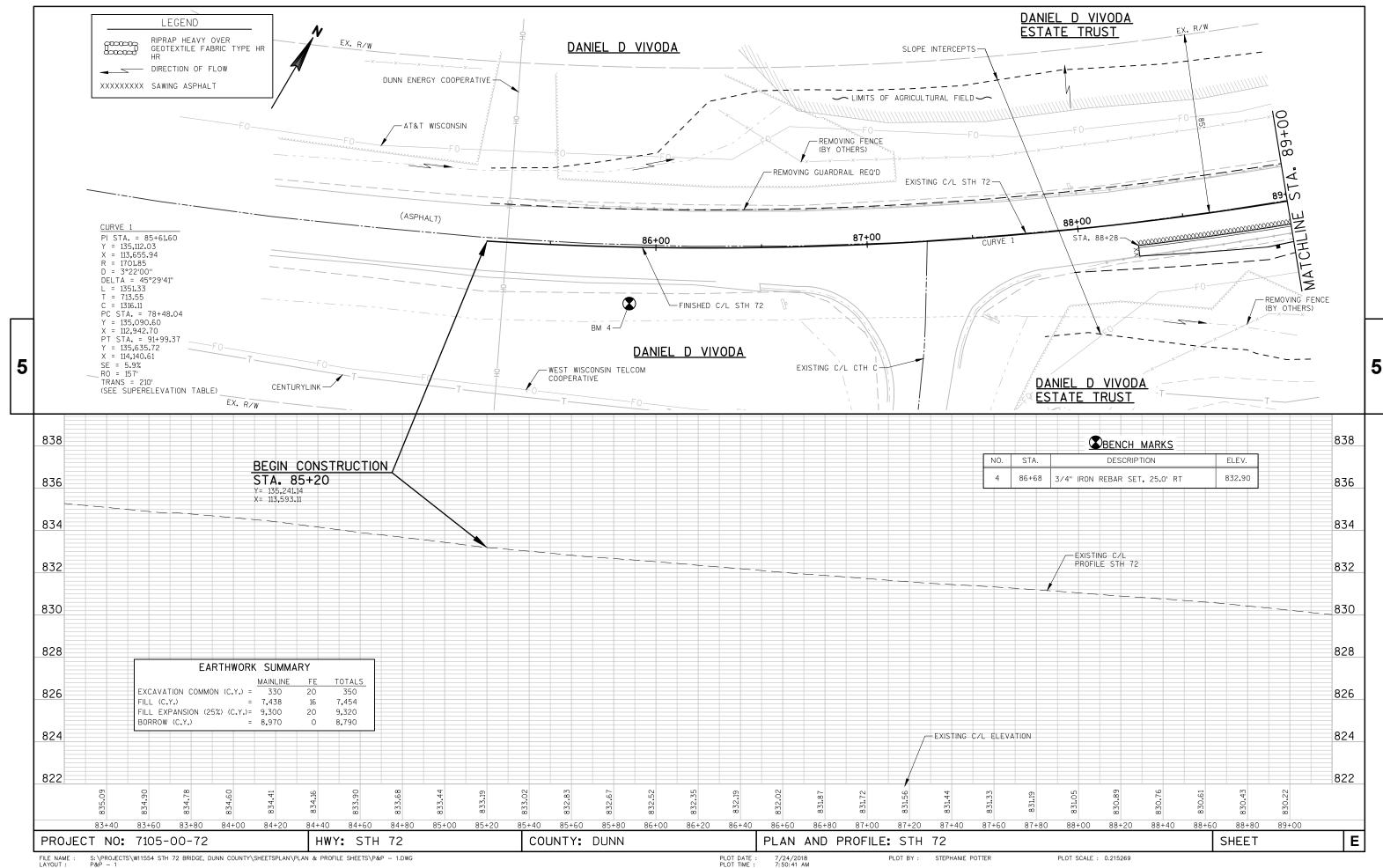
DANIEL D. VIVODA ESTATE TRUST

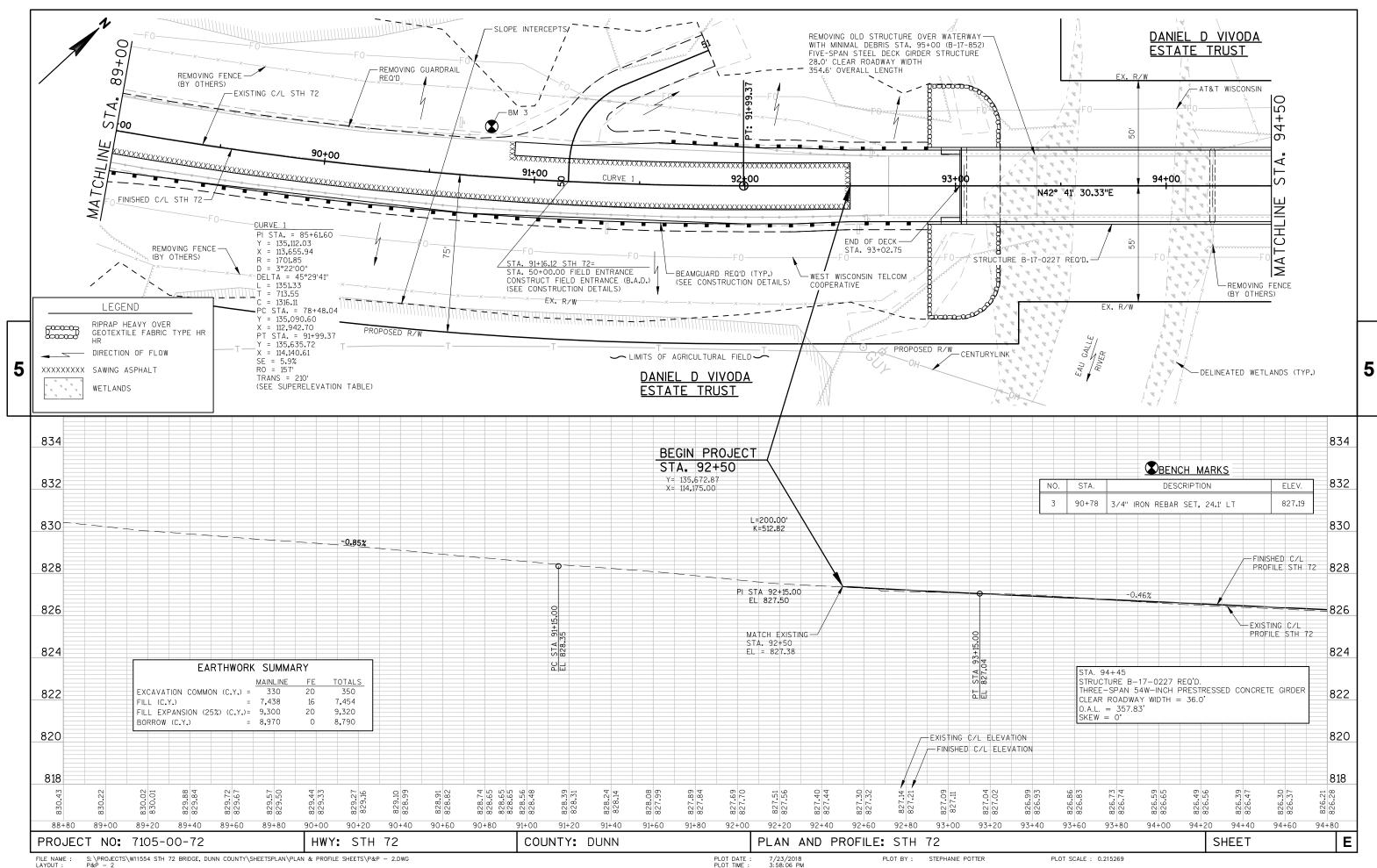
TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

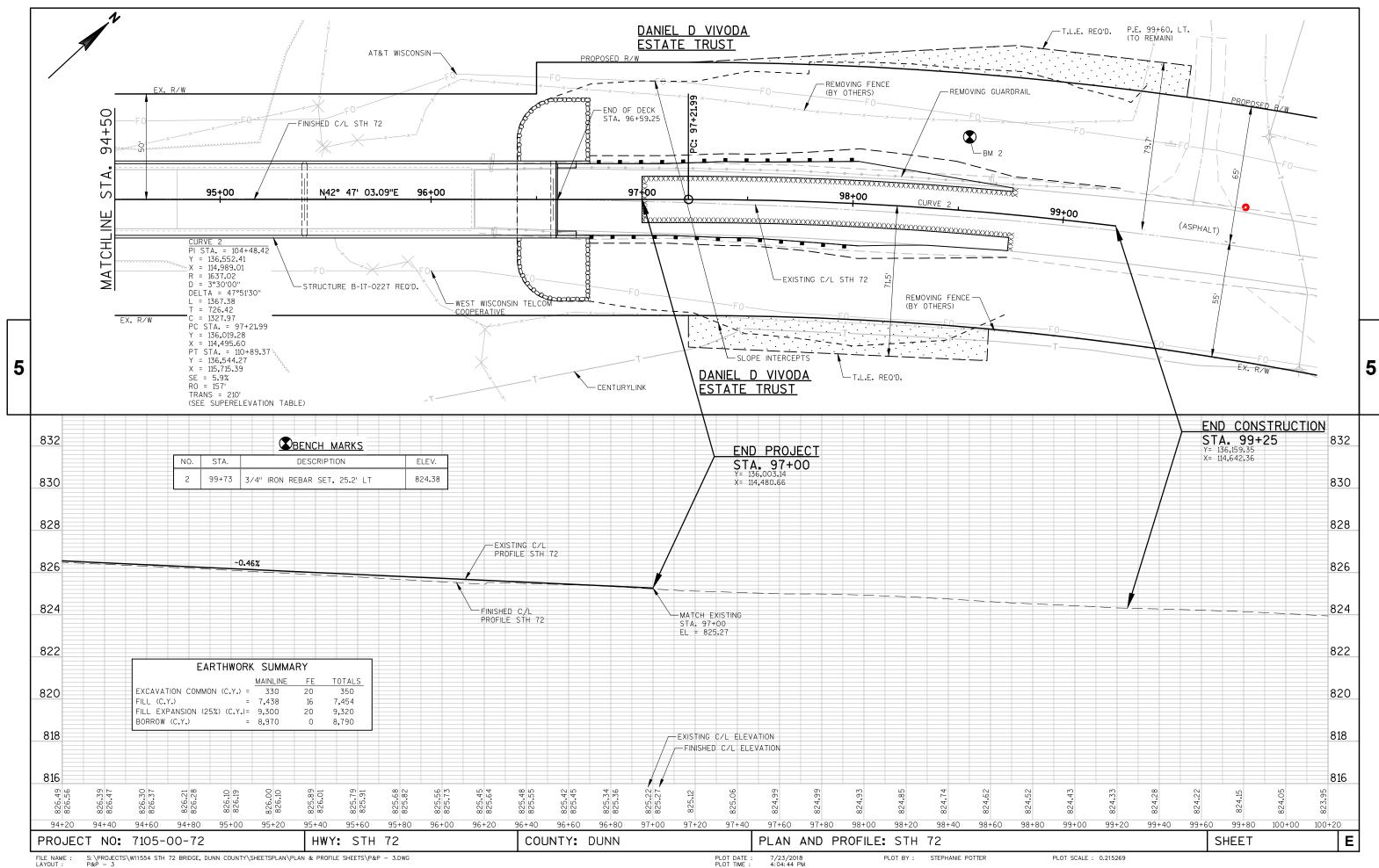
CHORD LENGTH=495.22'

CHORD BEARING=N51*08'58"E

TLE, SLOPES-







Standard Detail Drawing List

00-00 03	TYPICAL THETALLATIONS OF EDOCTOR DALES / TEMPORARY DITCH CHECKS
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
12A03-10	NAME PLATE (STRUCTURES)
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14в42-06в	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)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-07C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

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.

TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

Ō Ö

 ∞ ∞ Ω

Δ

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.

- \bigcirc 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)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

6

٥

D.D. 8 E 9





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

|--|

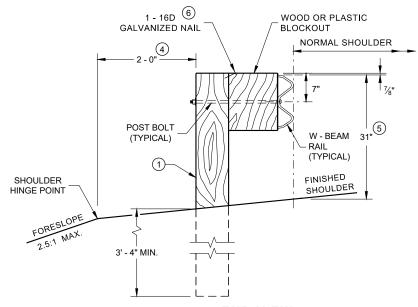
3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

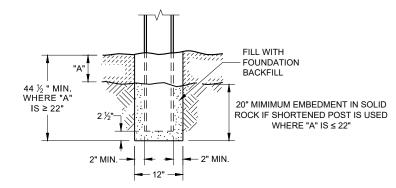
D.D. 12 A

3-10

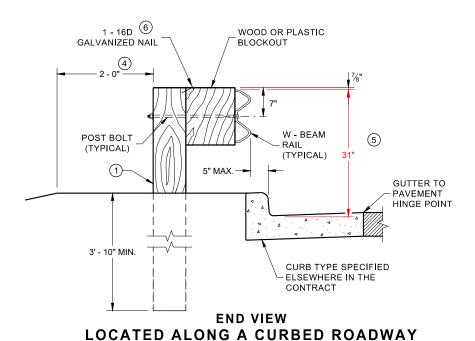
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- $\ \, \ \,$ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 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).
- $\fill \begin{tabular}{ll} \end{tabular}$ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS \$\pm1"\$. FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 % " 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.
- TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



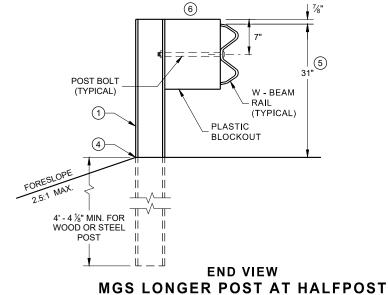
END VIEW LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION

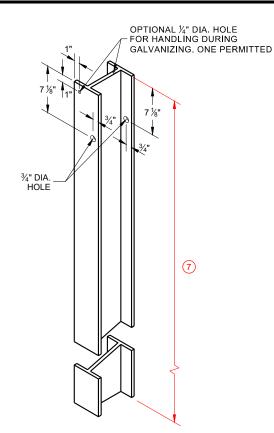


END VIEW SETTING STEEL OR WOOD POST IN ROCK

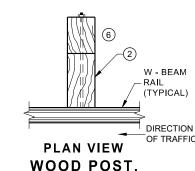


SPACING W BEAM (K)

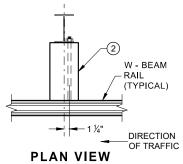




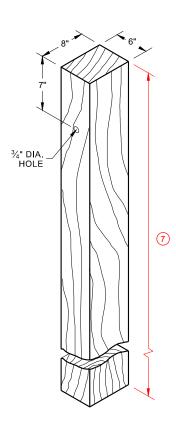
STEEL POST & HOLE **PUNCHING DETAIL** (W 6 X 9) ⁽¹⁾



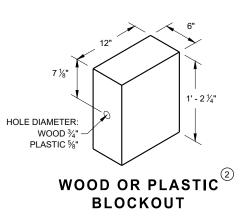
WOOD POST BLOCKOUT & BEAM



STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

6' 3" C - C

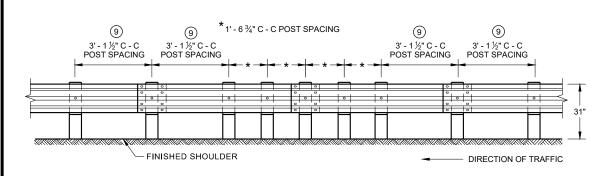
POST SPACING

DIRECTION OF TRAFFIC

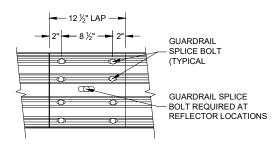
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



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



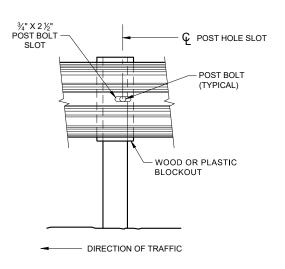
FRONT VIEW MID-SPAN BEAM SPLICE

GENERAL NOTES

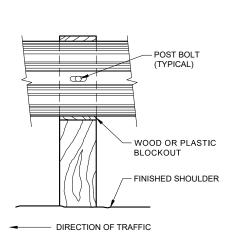
- DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.
- 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BÈ LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

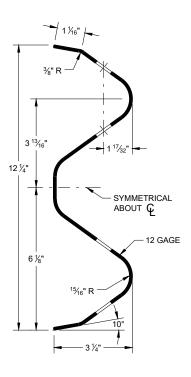
GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



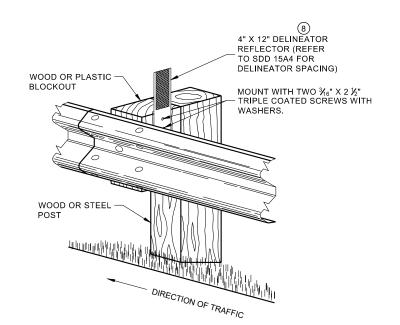
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST







ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

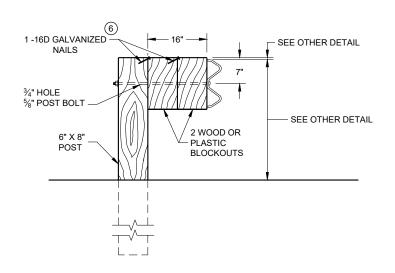
> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

<u>90</u>

4

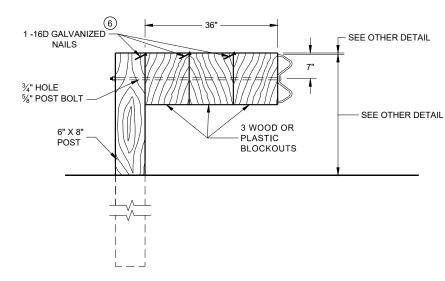
SD

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.



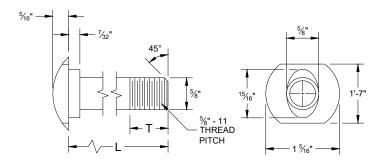
DETAIL FOR 36" BLOCKOUT DEPTH

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.

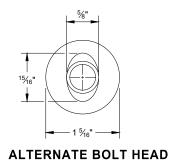
NOTE:

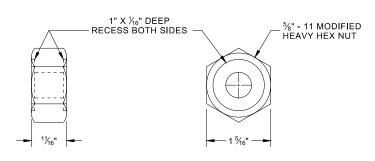
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

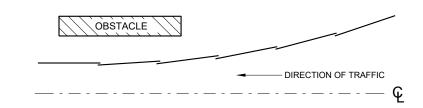
L	T (MIN.)
1 1⁄4"	1 1/4"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



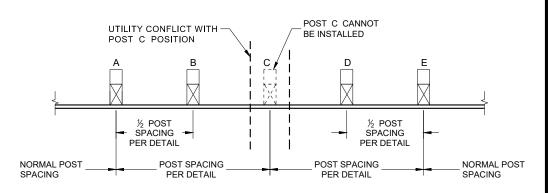


POST BOLT, SPLICE BOLT **AND RECESS NUT**

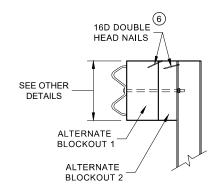
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

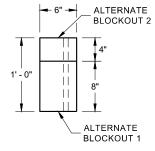


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

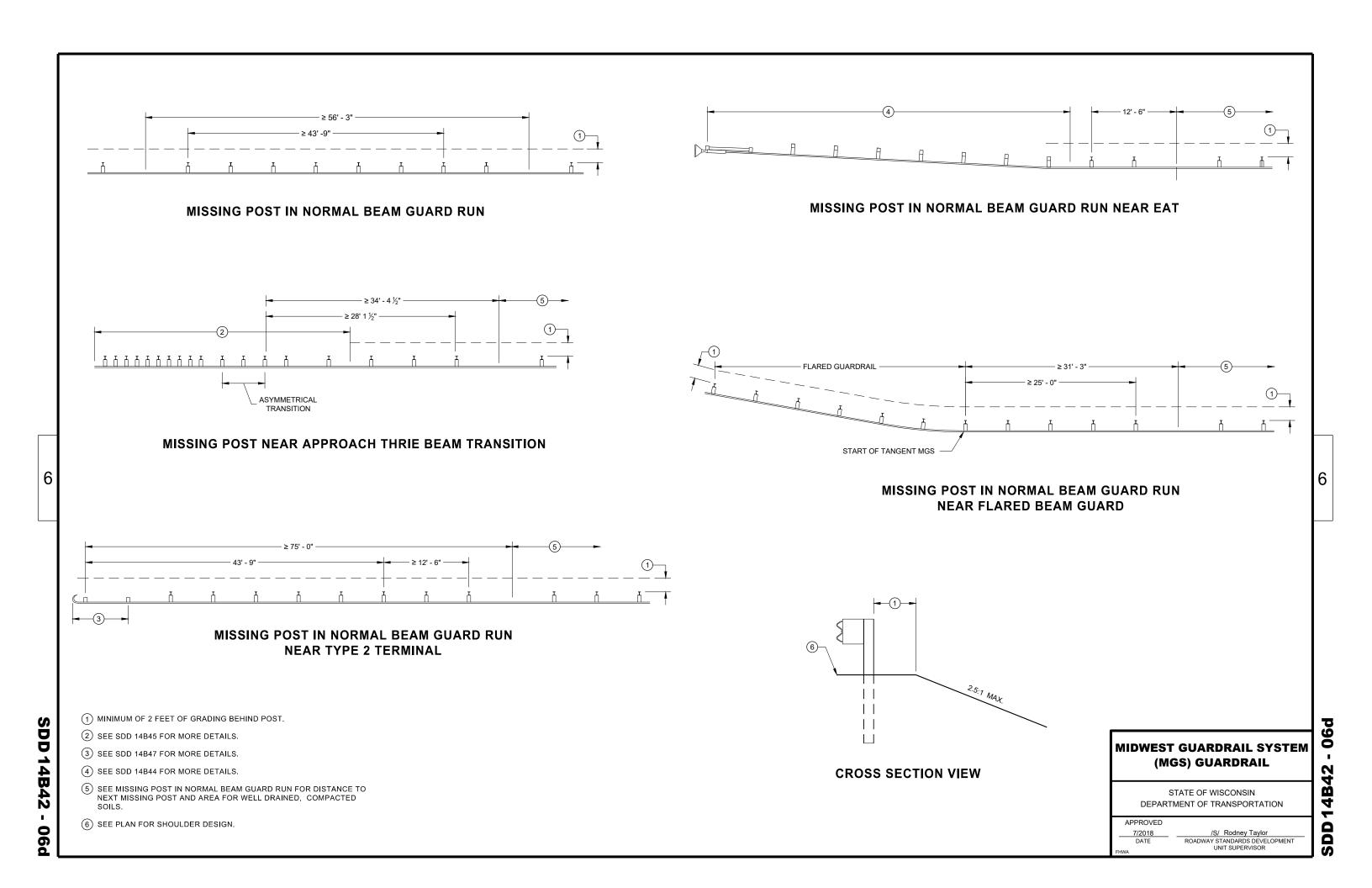
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

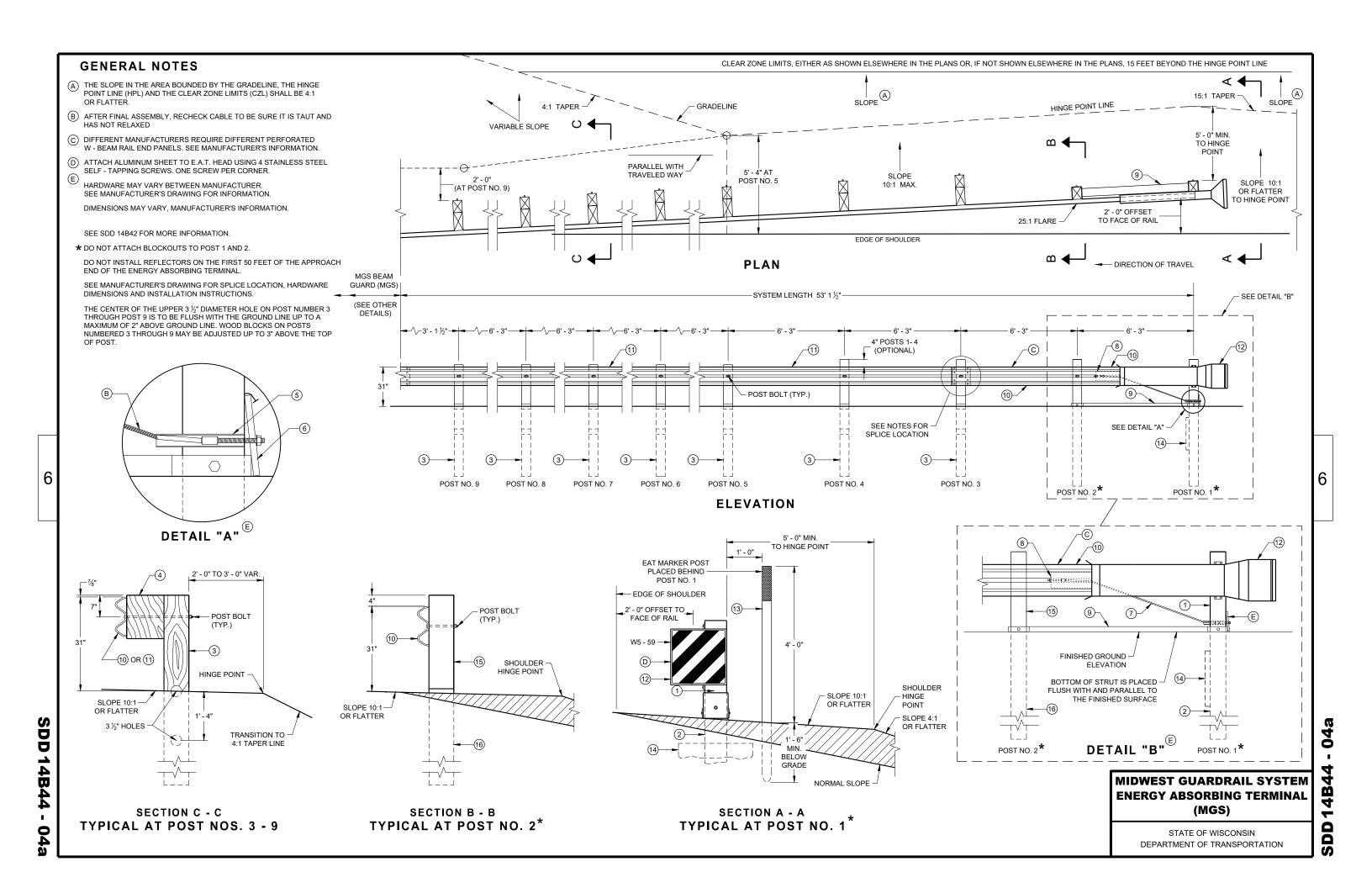
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

90

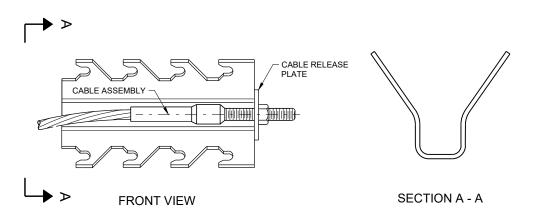
SD

PLAN VIEW

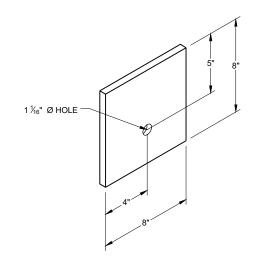




GENERIC GROUND STRUT



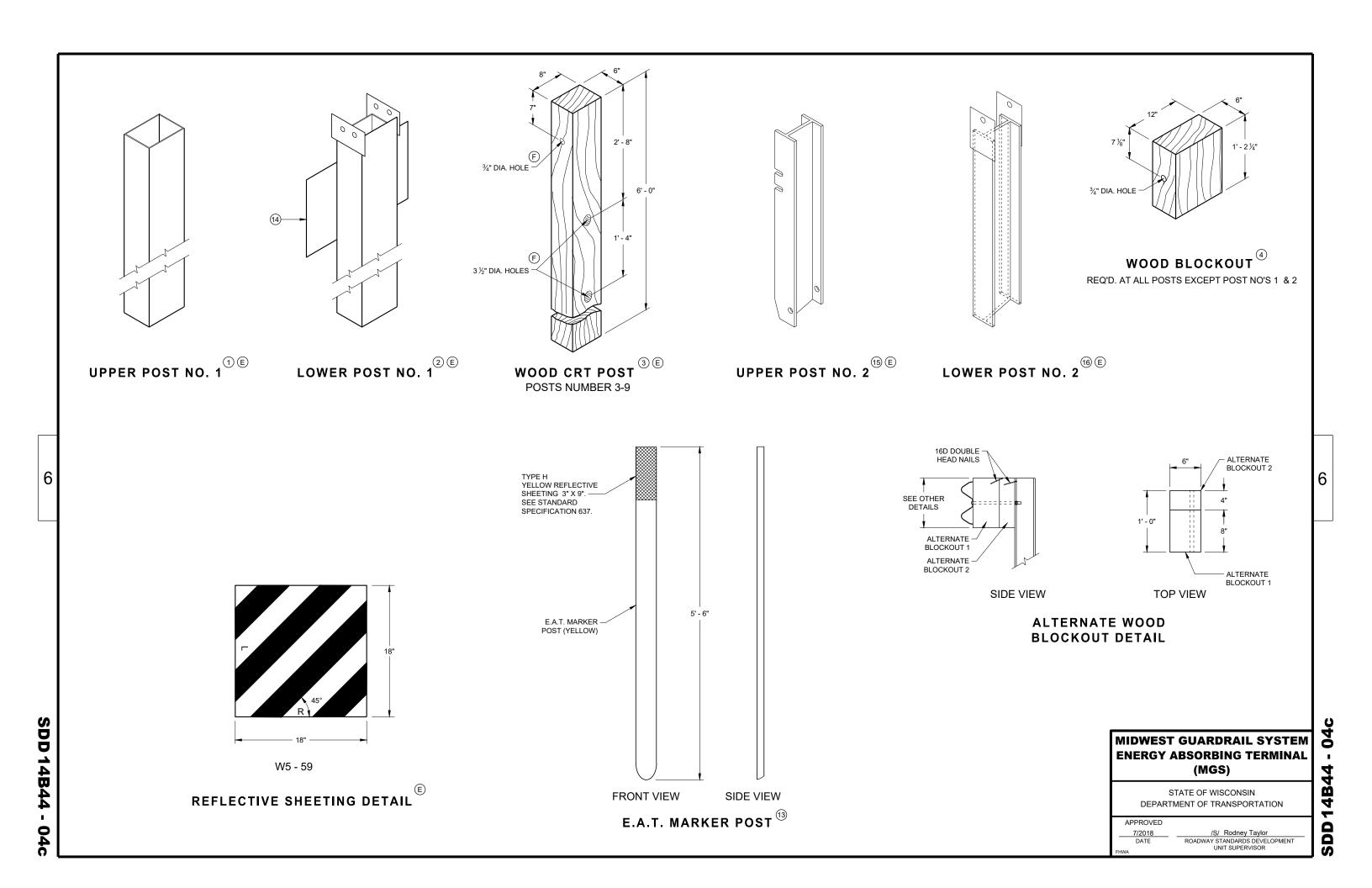
GENERIC ANCHOR CABLE BOX ^{(9) (E)}

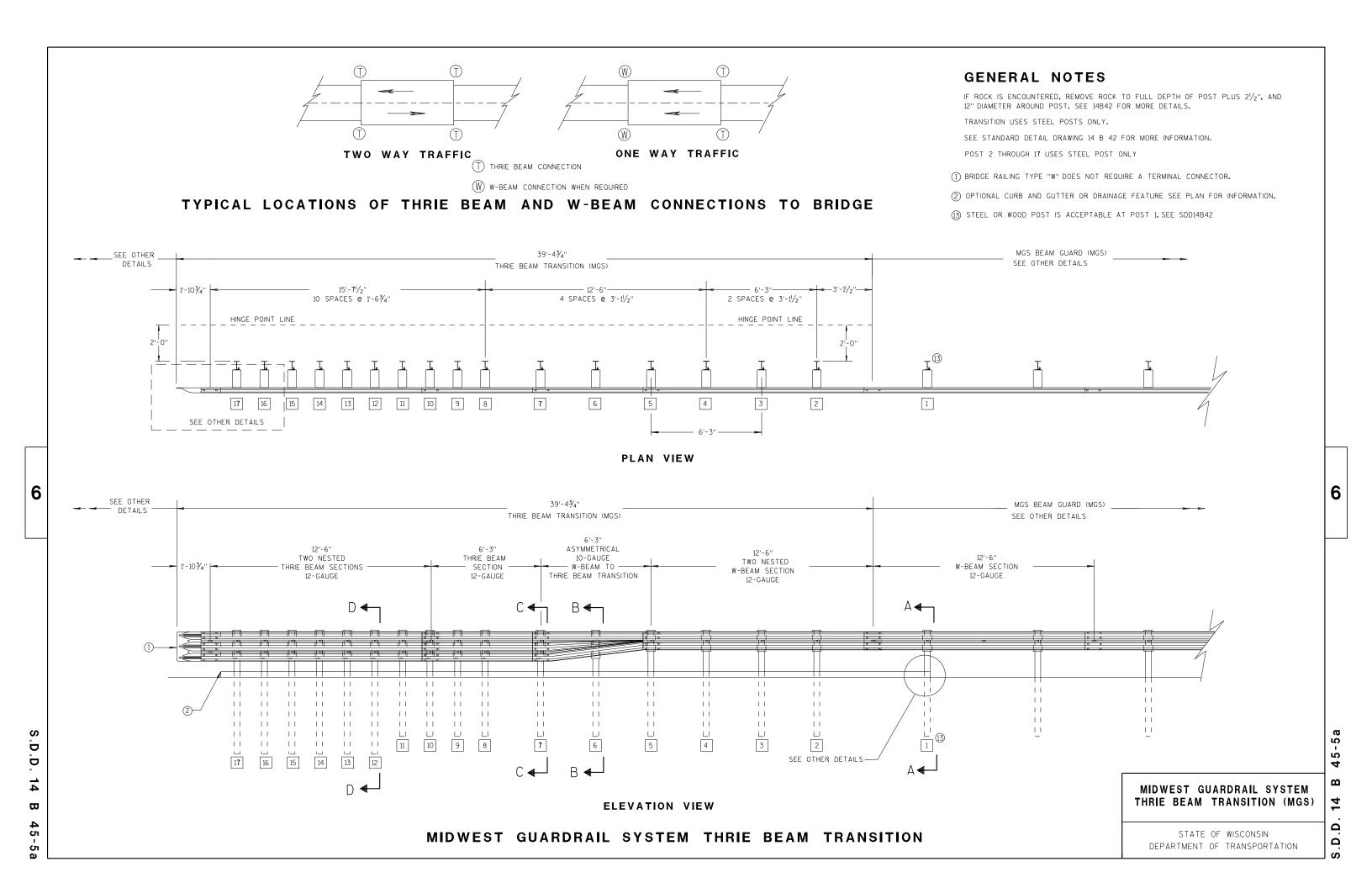


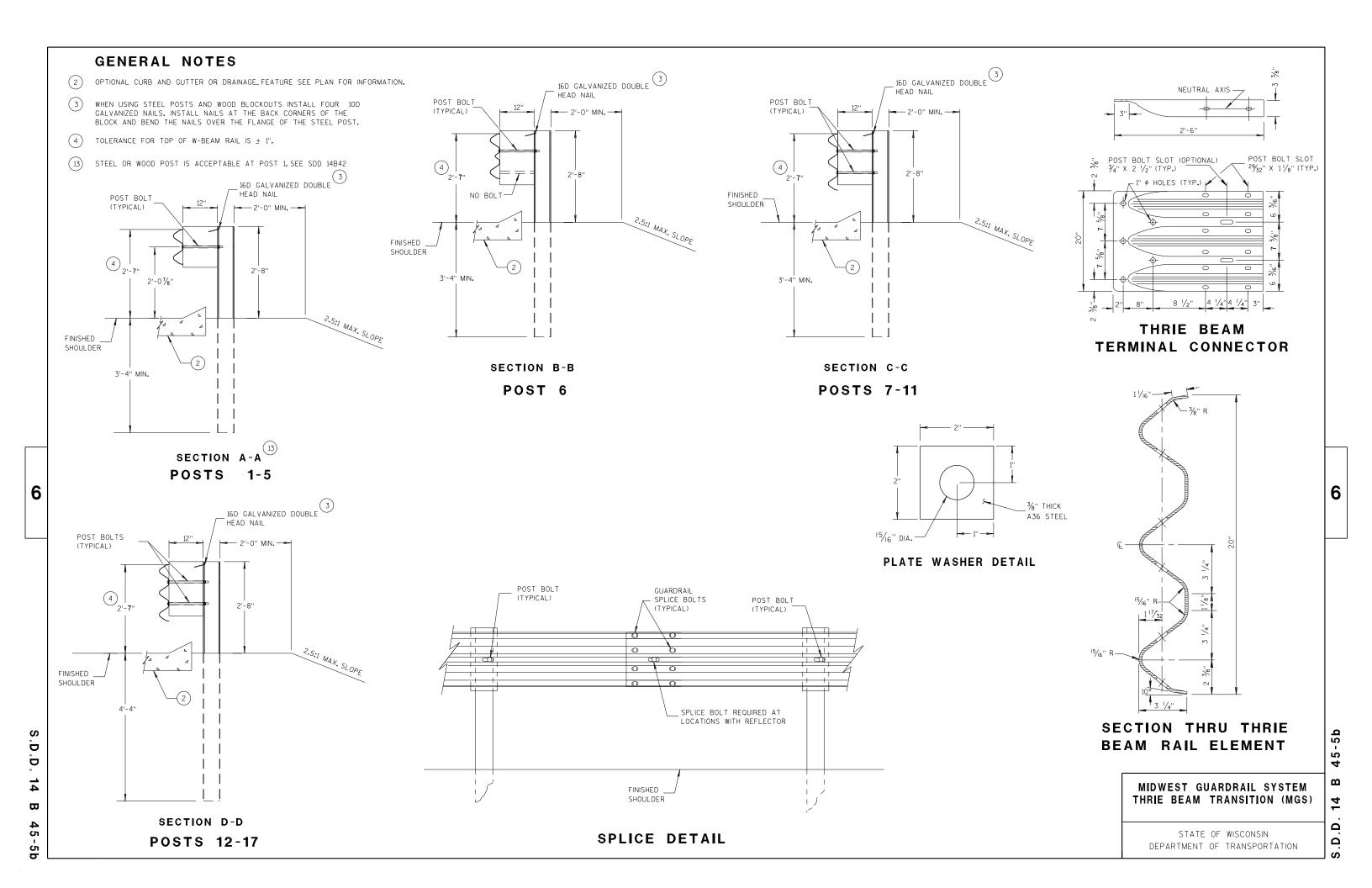
BEARING PLATE

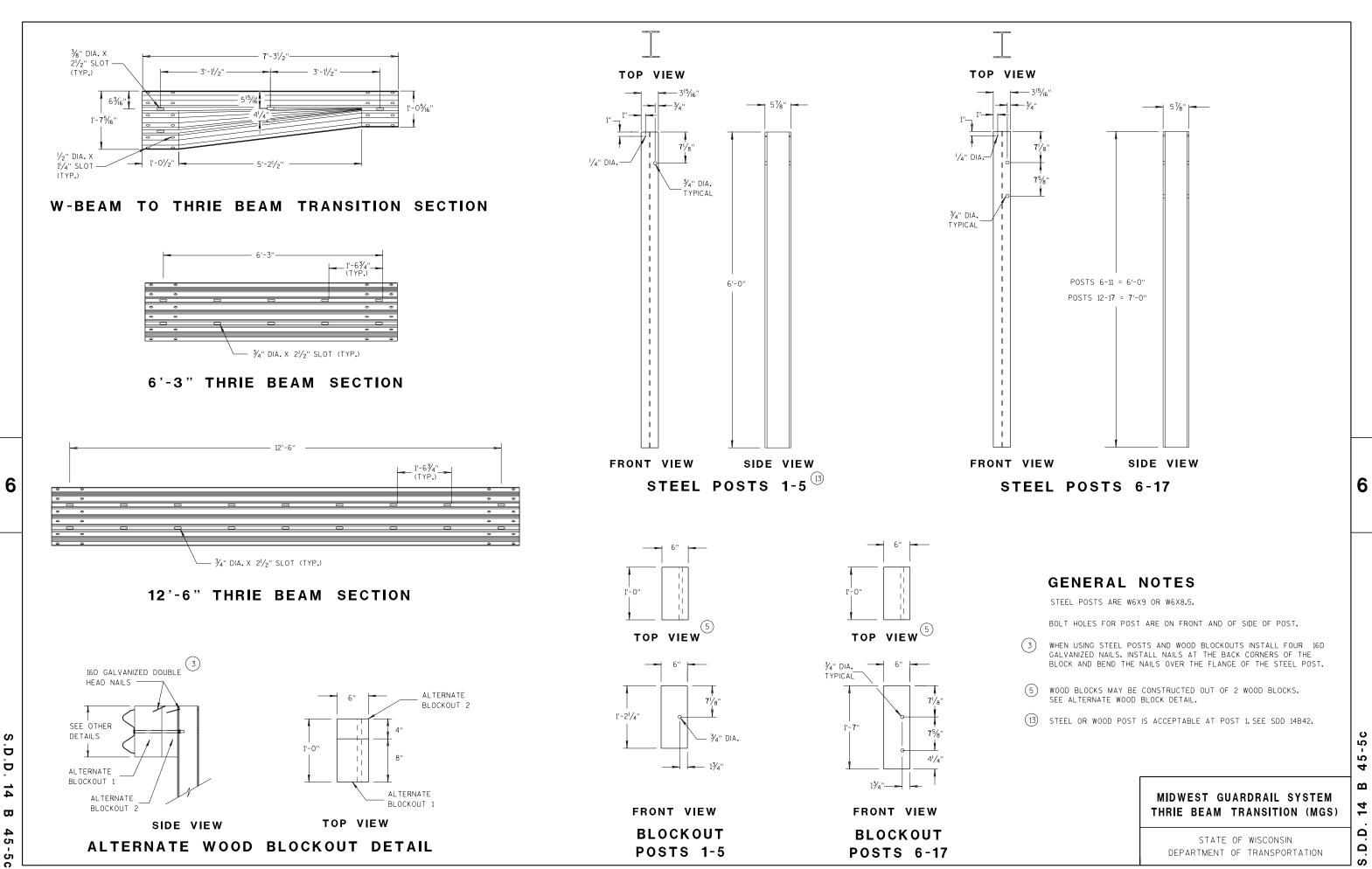
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

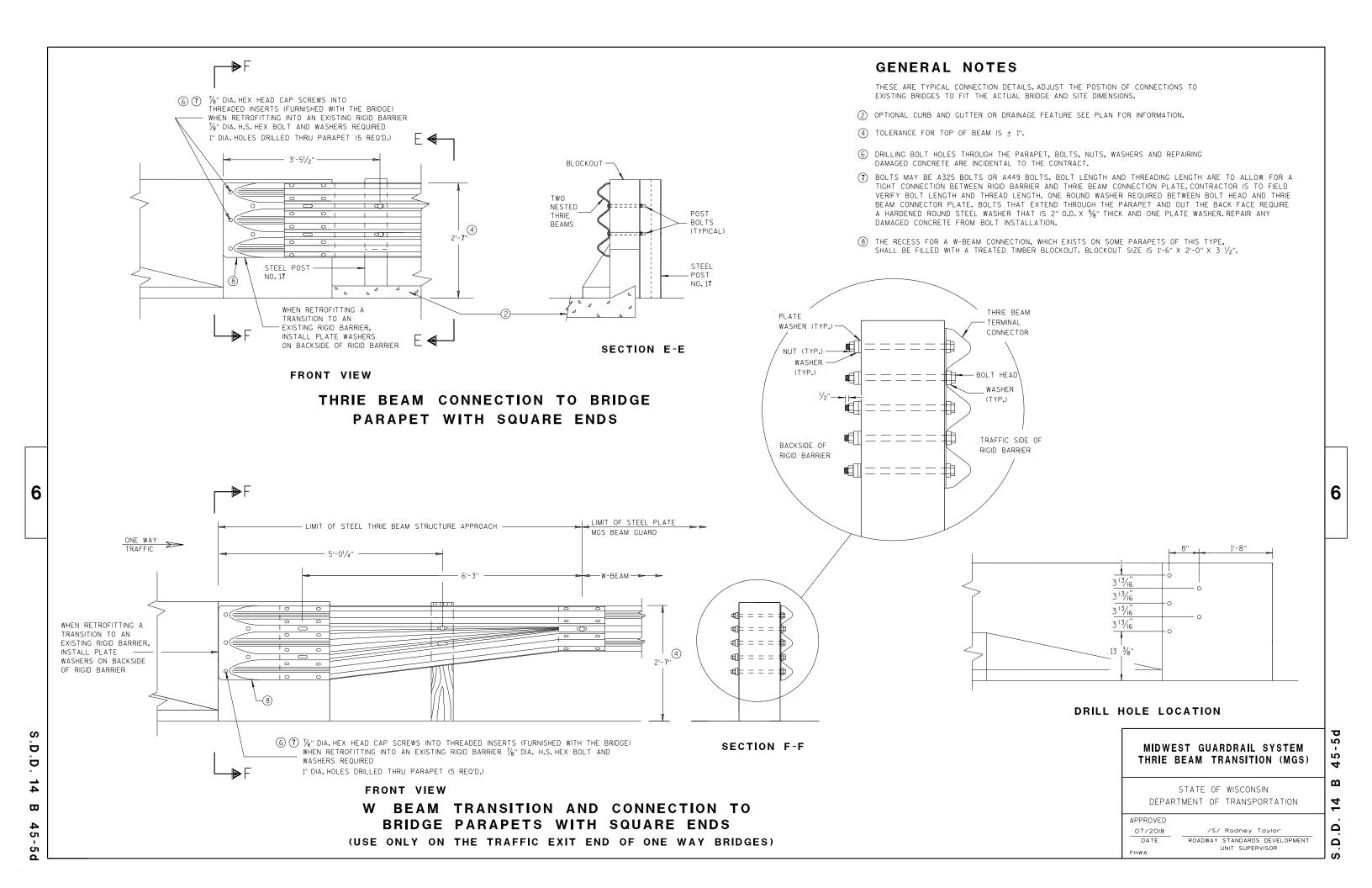
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



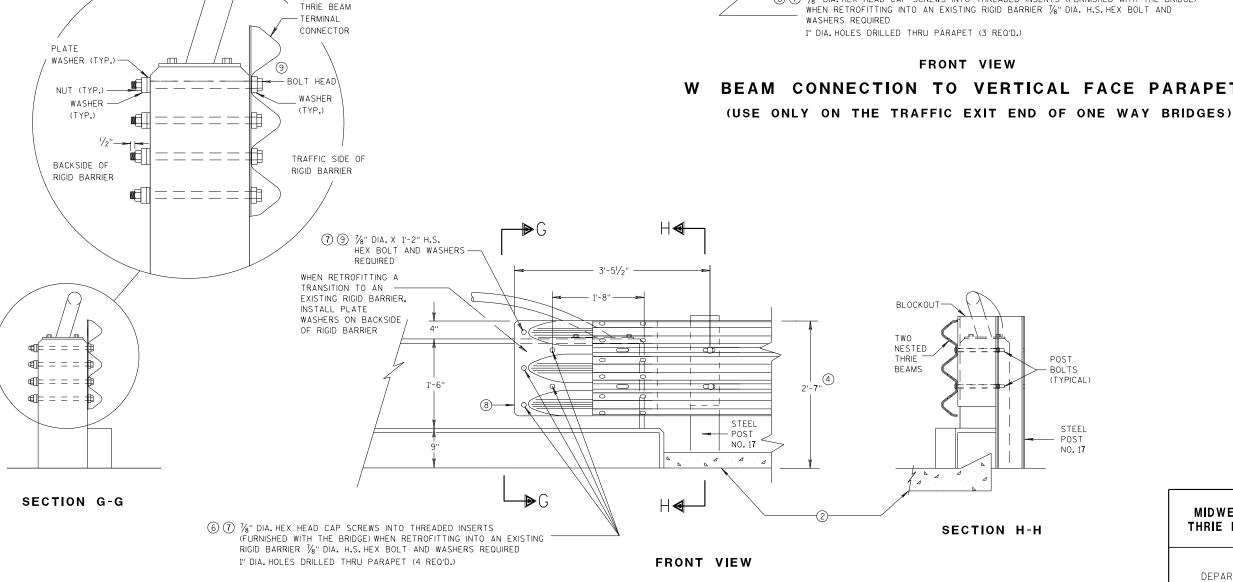








- (2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- (4) TOLERANCE FOR TOP OF BEAM IS ± 1".
- 6 DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- 7 BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH 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%" 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

LIMIT OF STEEL PLATE 7 7/8" DIA. X 1'-2" H.S. MGS BEAM GUARD HEX BOLT AND WASHERS REQUIRED 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

BEAM CONNECTION TO VERTICAL FACE PARAPET

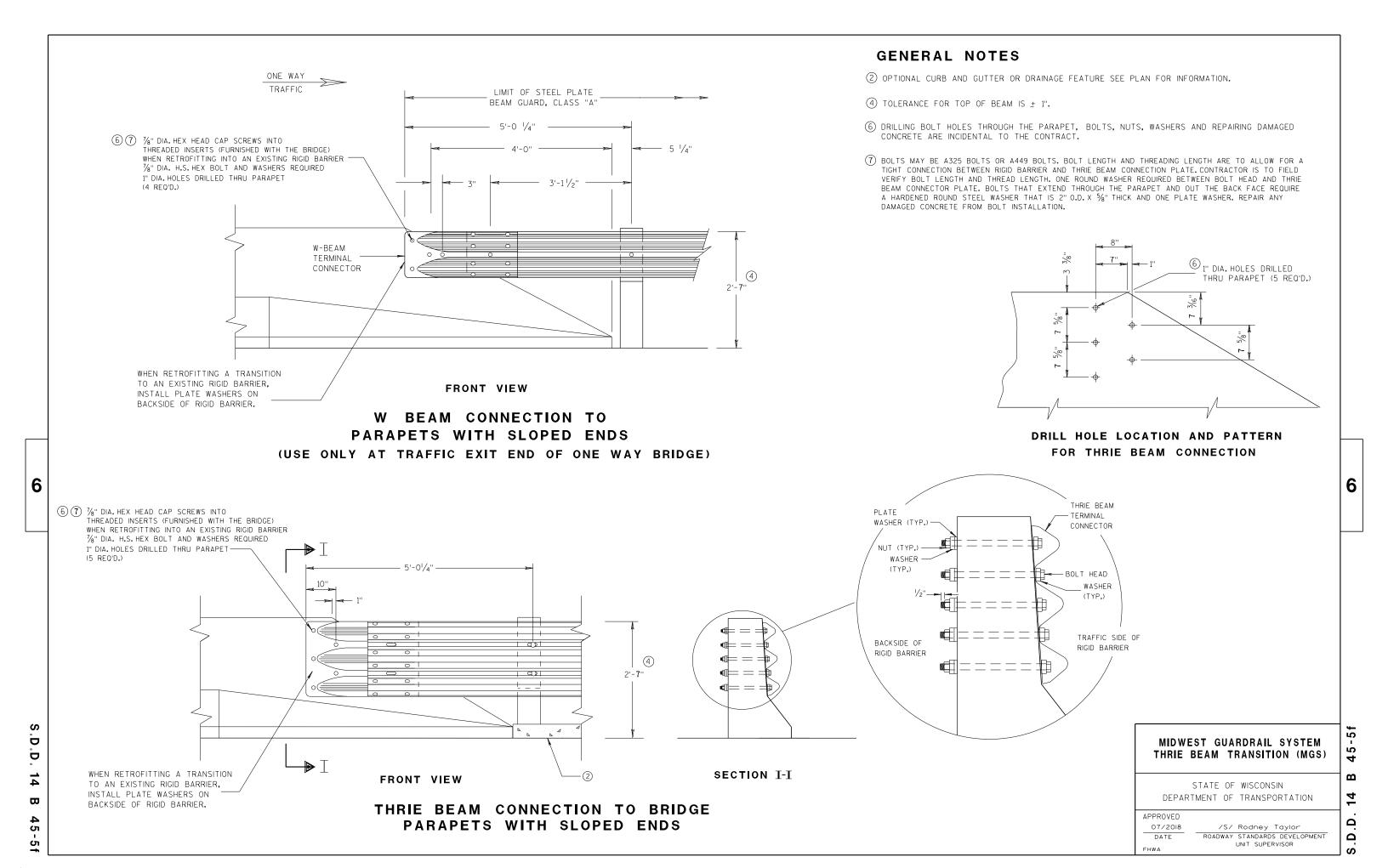
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

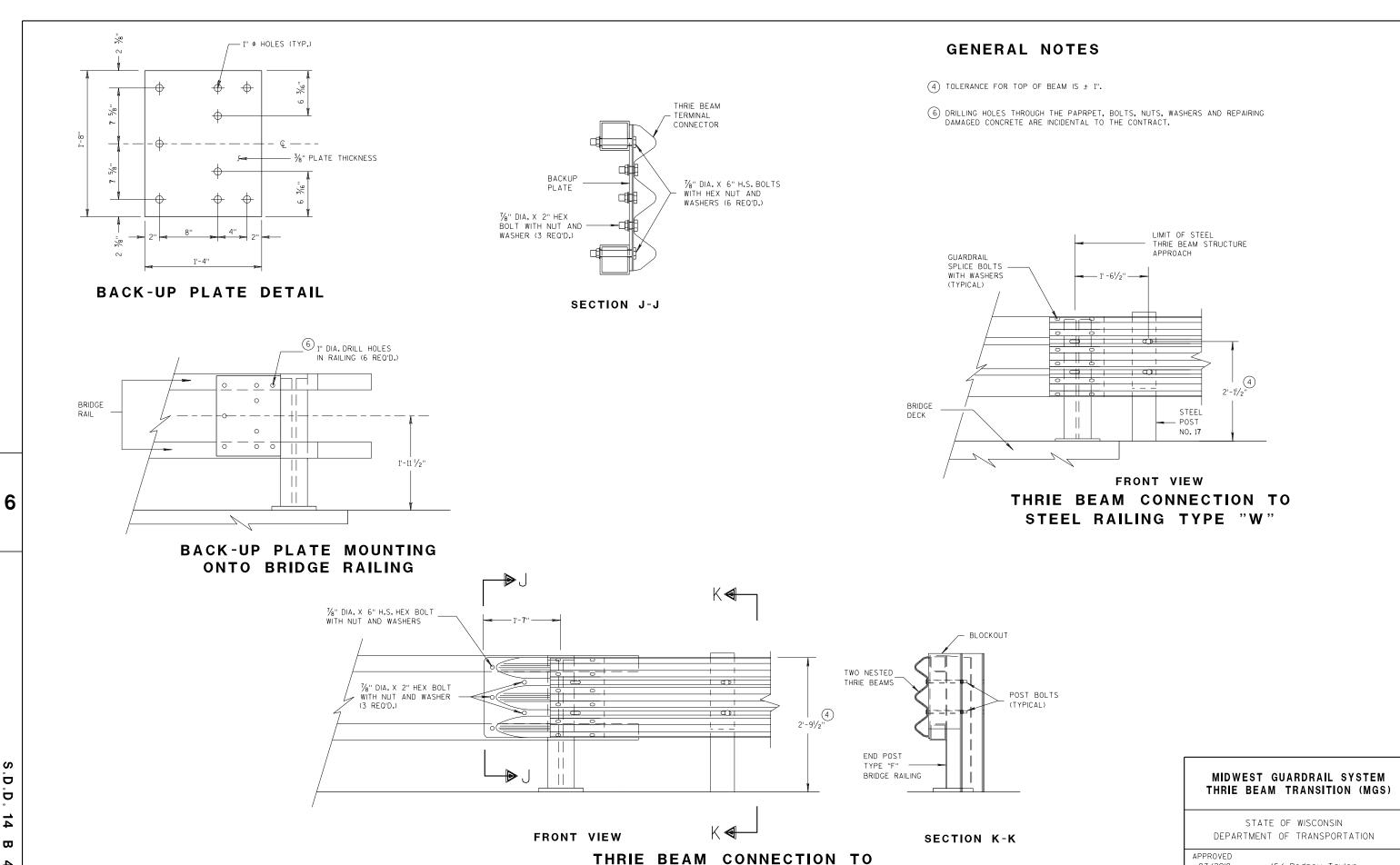
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

D D ₿ G

45 Ω 14 Δ Δ





TUBULAR RAILING TYPE "F"

D

D 14

₩

45

g

5 Ŋ $\mathbf{\omega}$ 4 Ω Ω

07/2018

DATE

/S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

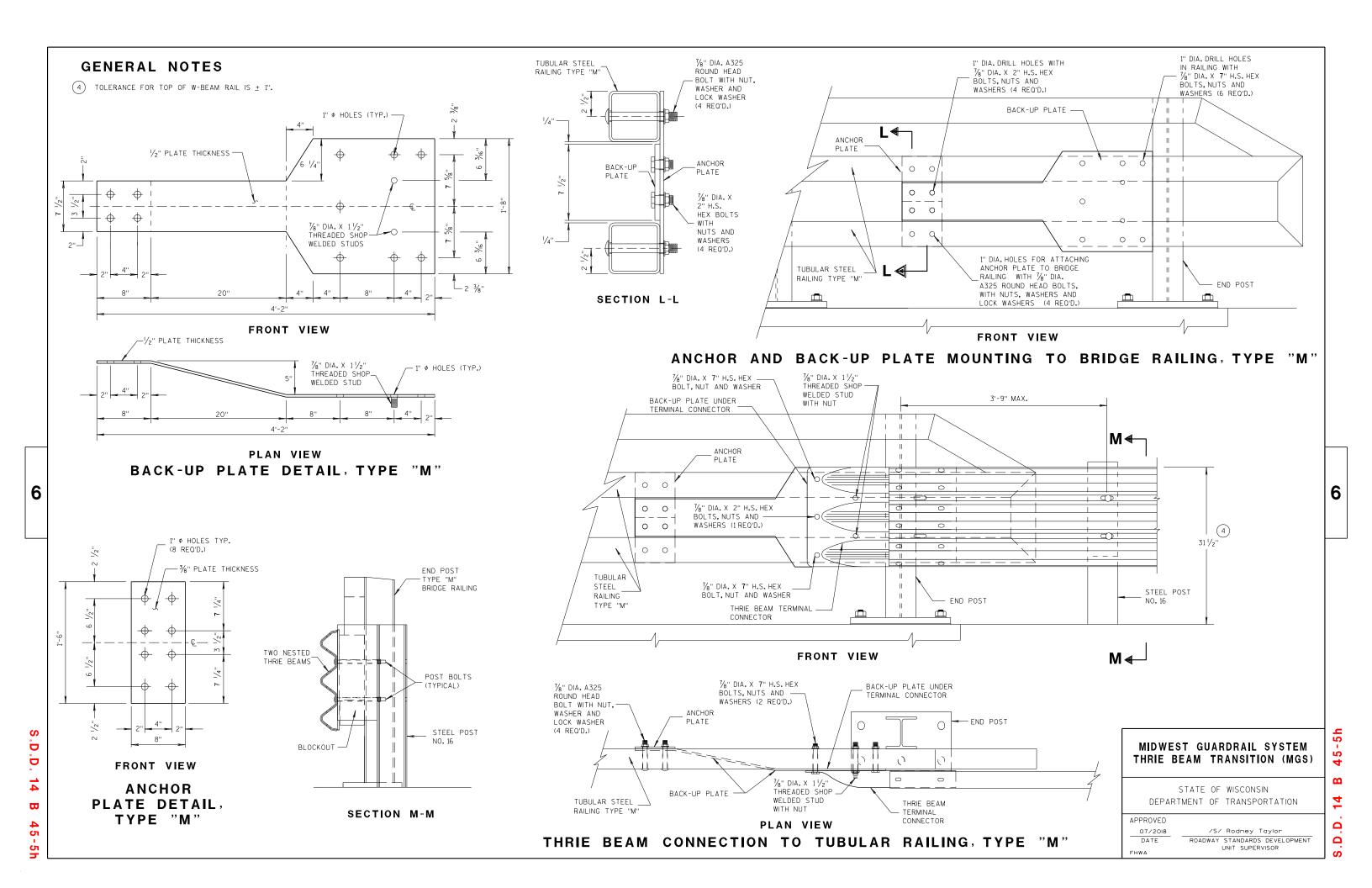


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)				
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS
P1	1	в₫	20" × 20"	3/16"
P2	1	B₽€	20" × 20" × 28%6"	3/16"
Р3	1	B _ CD	39" × 35/8" × 20" × 195/6"	3/16"
S1	4	B₽	187/6" × 35/8" × 183/4"	1/4"
S2	1		$10^{1}/_{4}$ " × $2\frac{7}{16}$ " × $10\frac{3}{6}$ " × $1\frac{7}{2}$ "	1/4"
S3	1	B CD	3" × 1½6" × 3½" × ½"	1/4"
S4	1	в	61/8" × 27/16"	1/4"
S5	1	в∟	6½" × ½'6"	1/4"
S6	1	в△	7¾" × 1¾"	1/4"
S 7	1	A D C	2%6" × 6" × 35%" × 57%"	1/4"
S8	1	ABC	1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ "	1/4"
S9	1	C B	6½6" × 6¾6" × 1¾32"	1/4"
S10	1	A B C	11/8" × 91/8" × 35/8" × 911/16"	1/4"
S11	1	CAB	8½" × 8¾" × 1 ¹ ¾6"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

GENERAL NOTES COVER PLATE PANELS ARE 3/16" THICK. ALL STIFFENERS ARE 1/4" THICK.

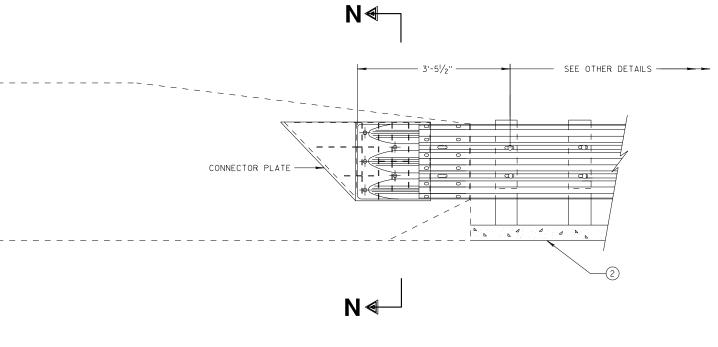
CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE

/S/ Rodney Taylor 7/2018 DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

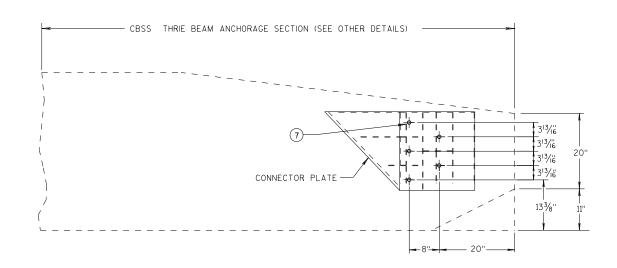
٦

6

6



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

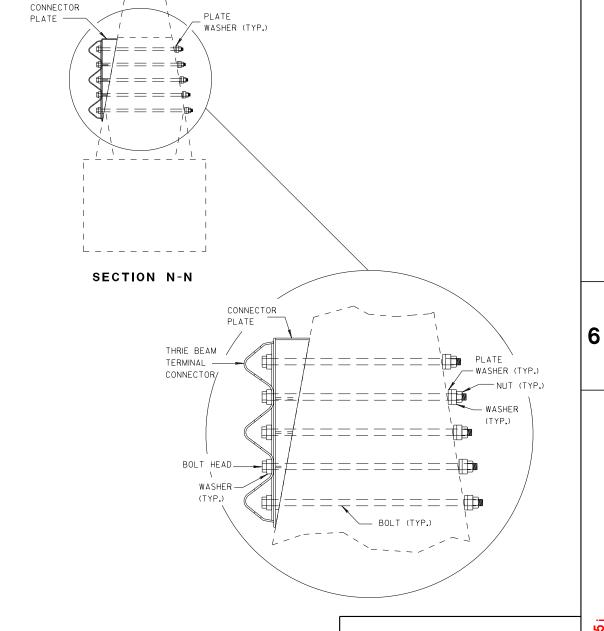


SINGLE SLOPE CONNECTION PLATE PLACEMENT

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 \(\frac{5}{8} \)" 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
 /S/ Rodne;

 7/2018
 /S/ Rodne;

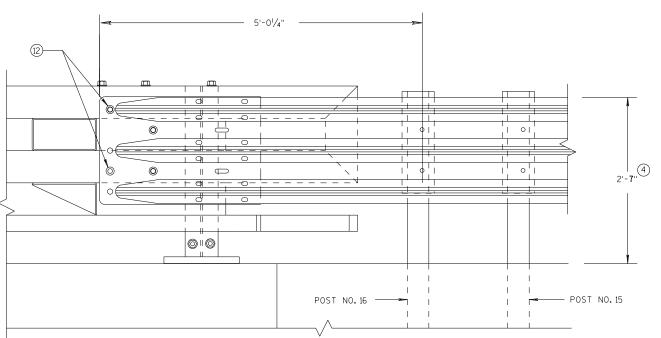
 DATE
 ROADWAY STANDAR

/S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT

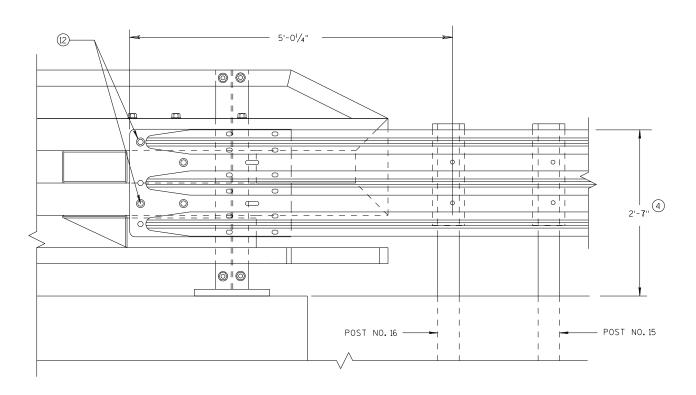
UNIT SUPERVISOR

5



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

- (4) TOLERANCE FOR TOP OF BEAM IS ± 1".
- 12 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, ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

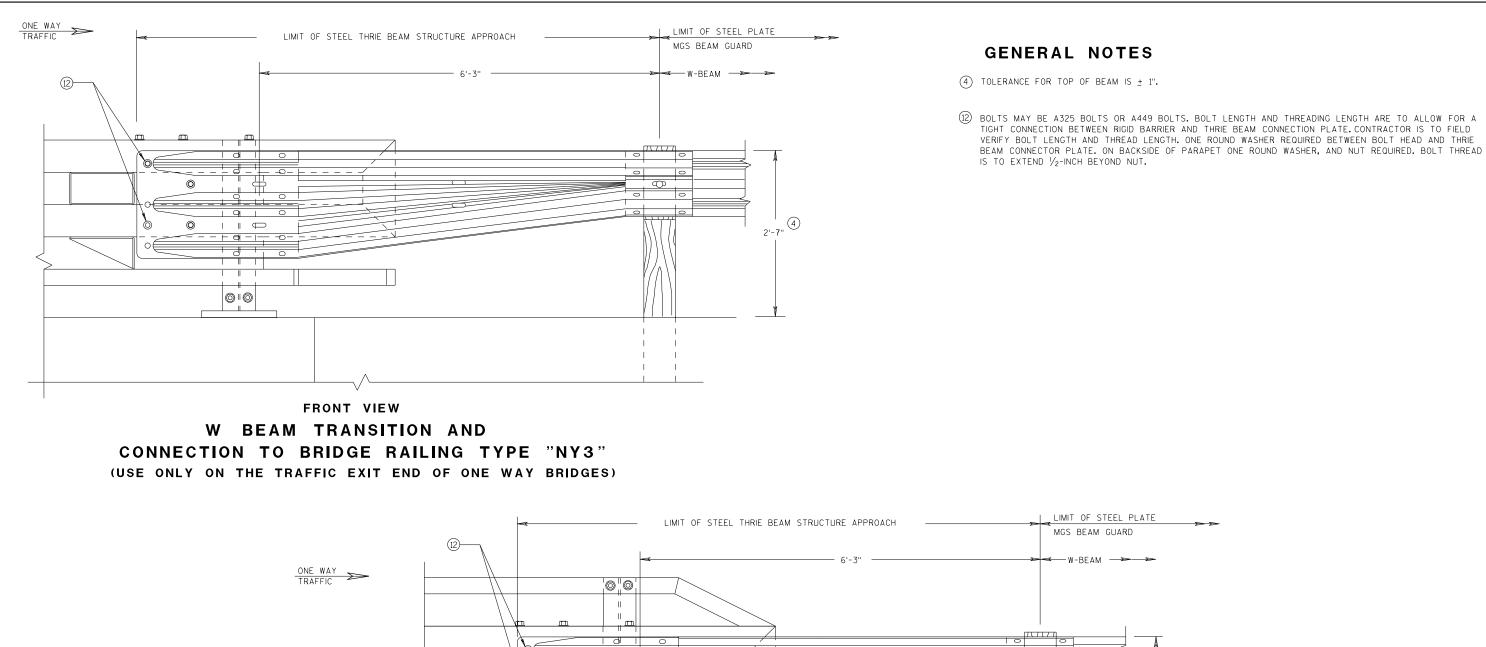
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

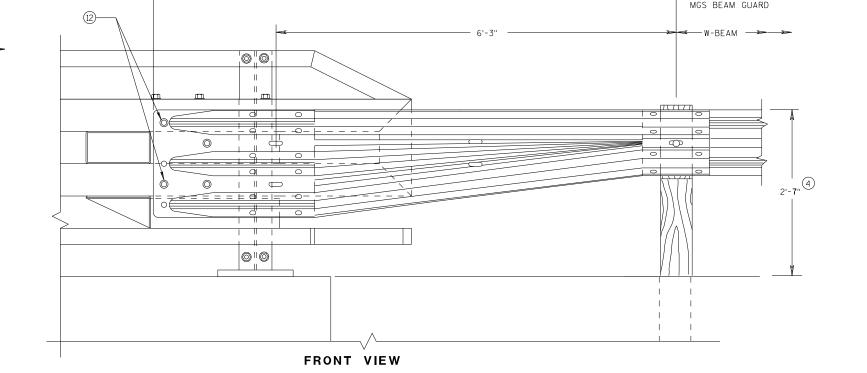
APPROVED

/S/ Rodney Taylor DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

6

45-





W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4" (USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 /S/ Rodney Taylor

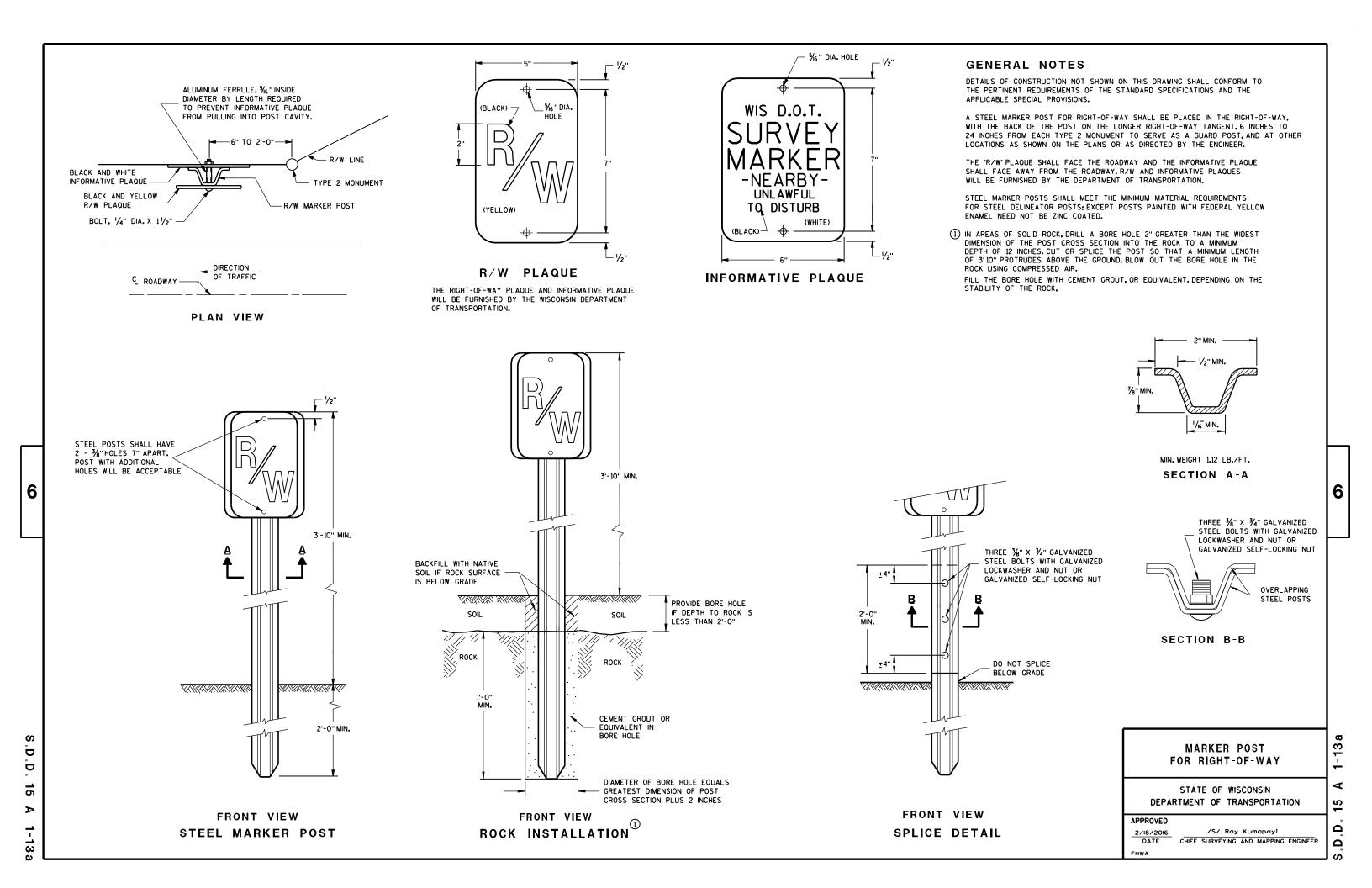
DATE ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

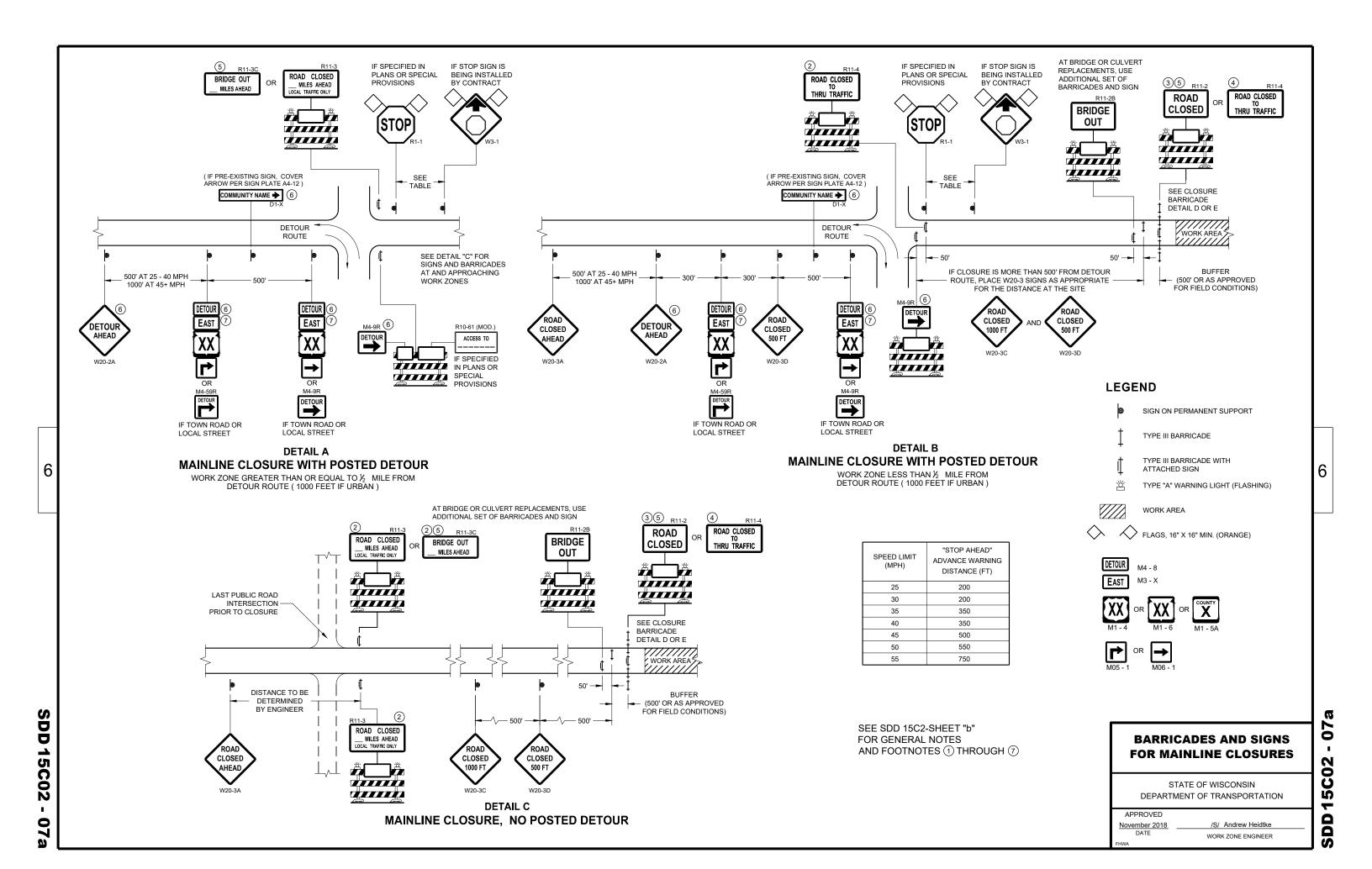
S.D.D. 14 B 45-5

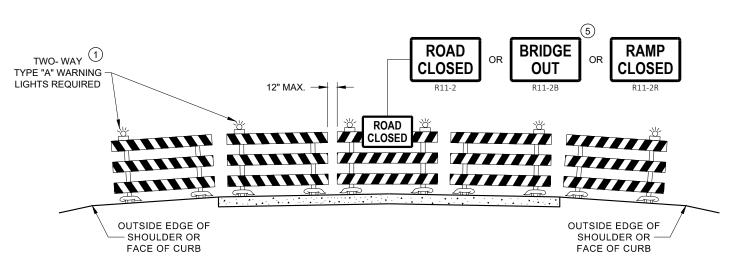
, 14 E

6

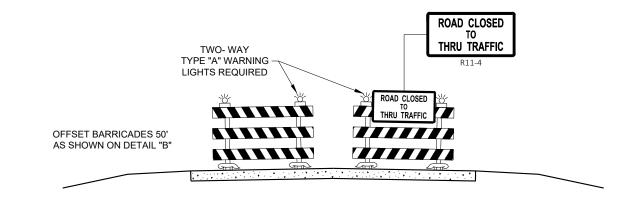
- O.O.







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

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"

- 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 WITHOUT 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
- "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

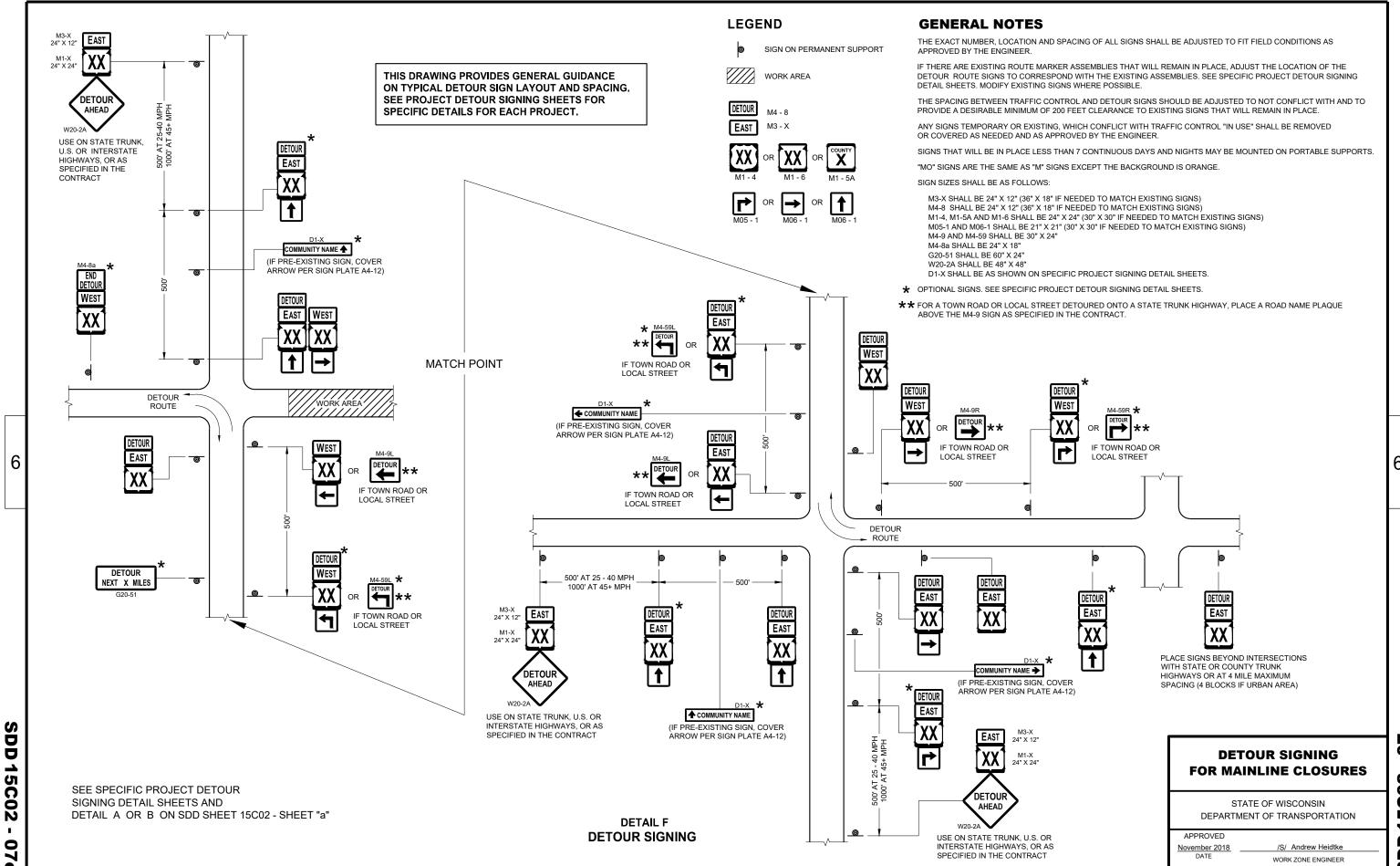
November 2018 DATE

WORK ZONE ENGINEER

0

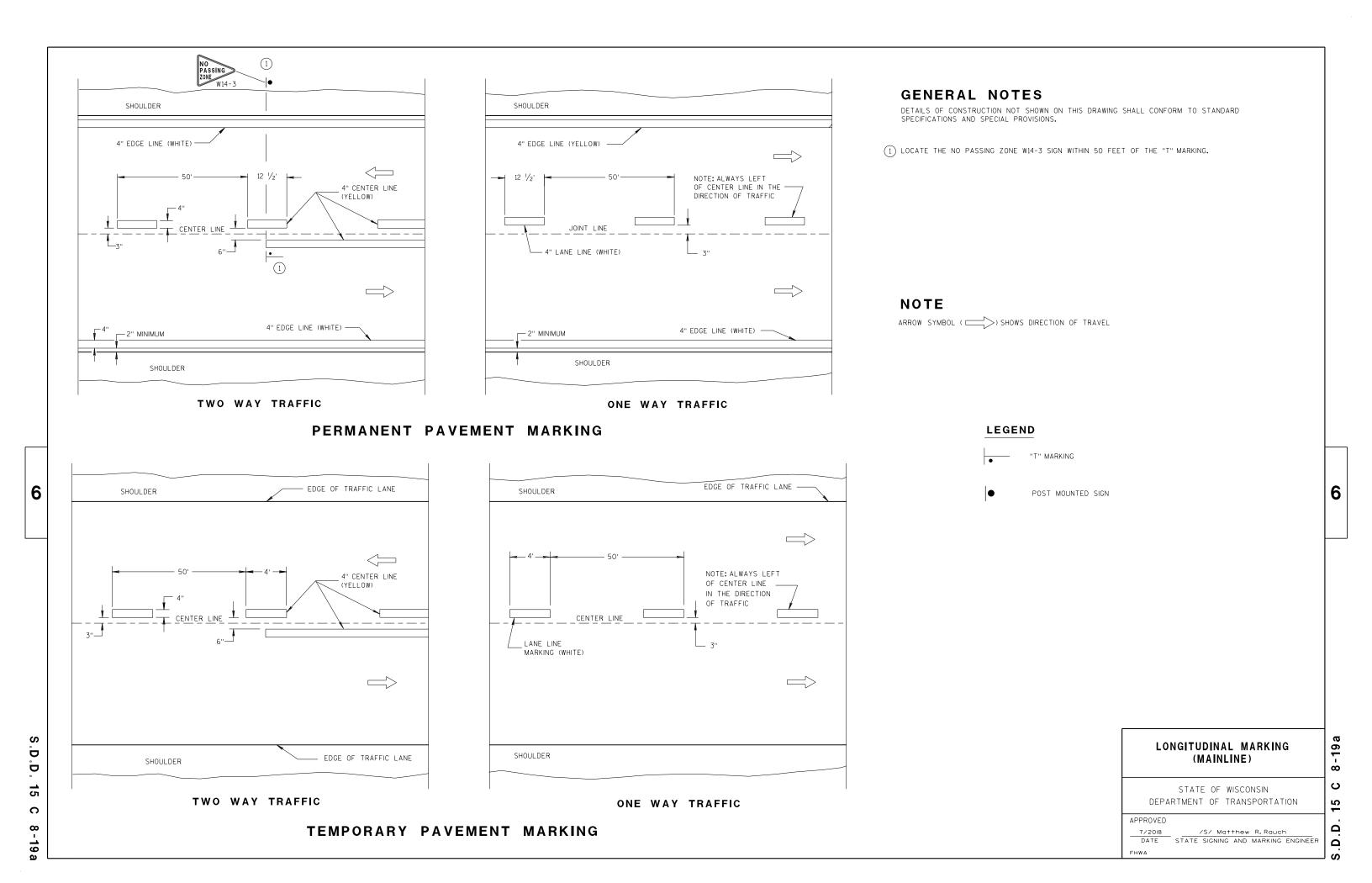
0

Ŋ



Ŋ







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 ∞

6

Δ

 ∞

6

- 11/2" DIAMETER HOLES

Ω

Ω

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

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

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

Ω Ω

6

2 b

18

က

38-2b

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard

areater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.



PROJECT NO:

J32-1

J22-1

J23-1

J33-1

PLOT BY: mscsja

PLATE NO. __A2-15.8

DATE 2/06/14

SHEET NO:

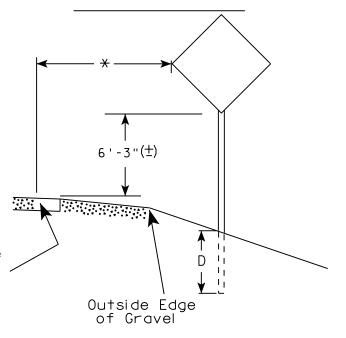
urban area

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

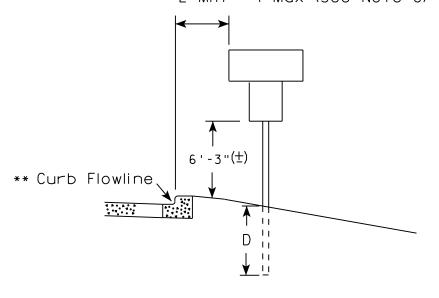
** Curb Flowline

D | White Edgeline Location

RURAL AREA (See Note 2)



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



White Edgeline
Location

Outside Edge
of Gravel

PLOT DATE: 21-AUG-2017 16:04

** 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.

POST EMBEDMENT DEPTH

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

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

GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or 6'-3" (\pm) depending upon existence of a sub-sign.
- 4. J-Assemblies are considered to be one sign for mounting height.
- 5. Minimum mounting height for signs mounted on traffic signal poles is $5'-3''(\pm)$.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (\pm) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

SHEET NO:

PROJECT NO:

HWY:

COUNTY:

NTY:

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

PLOT SCALE : 100.601251:1.000000



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:



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

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

PLOT DATE . 11-416-2016 11:35

PINT RY * \$\$ nintuser \$\$

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



SIGN LAYOUT WITH VARIOUS SIZED MESSAGES





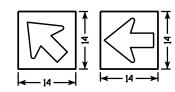




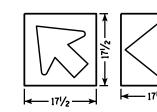








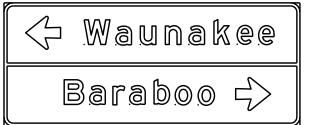


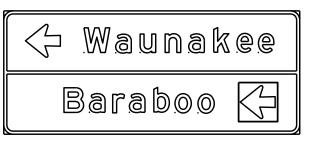


BEFORE

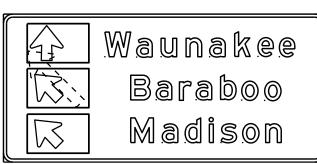


8 | 10"/6









GENERAL NOTES

- Materials shall conform to Standard Specification Section 637.
 Base Sheet Aluminum 0.040" Thickness
 Sheeting Orange Type F Reflective
 Arrow Black Non-Reflective
- 2. Arrow signs shall be fastened to permanent sign by either aluminum rivets or aluminum self-tapping sheet metal screws.

 There shall be a minmum of 2 fasteners used per arrow sign.
- 3. There shall be a spacer consisting of a 0.08" nylon washer between the back of the arrow sign and the face of the permanent sign.
- 4. Arrows are per standard plate A1-2
- 5. Use separate arrow sign for each destination
- 6. Tilt arrow is always at 45 degrees
- 7. Arrow is centered on arrow sign

Lower Case Copy Size	Standard Width (Single Arrow)	Tilt Arrow	3 Line Tilt Arrow Cover Width	Height
3¾" Series C	8	9 ½	14 1/2	8
4½" Series D & E	9 1/2	10	15	9 ½
6" Series D & E	14	16	20 1/2	14
8" Series E	17 1/2	20 ½	25	17 1/2

DESTINATION DIRECTIONAL ARROW
FOR DETOUR SIGNS

WISCONSIN DEPT OF TRANSPORTATION

FFROVED

Matthew R Lauch

For State Traffic Engineer

PLATE NO. A4-12.2

DATE 10/08/14 PLATE
SHEET NO:

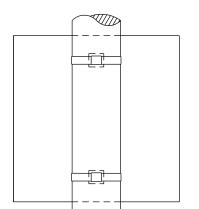
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A412.DGN

PROJECT NO:

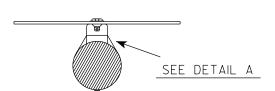
PLOT DATE: 08-OCT-2014 11:50

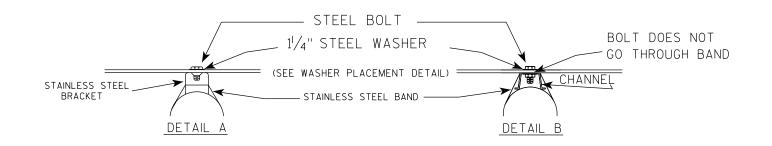
PLOT BY:

BANDING

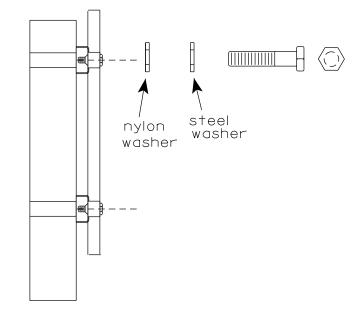


SINGLE SIGN





WASHER PLACEMENT



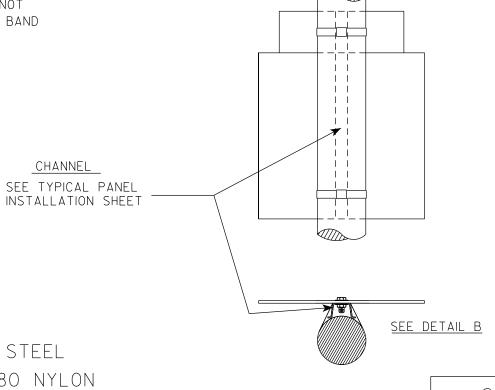
WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

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

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

State Traffic Engineer

HWY:

COUNTY:

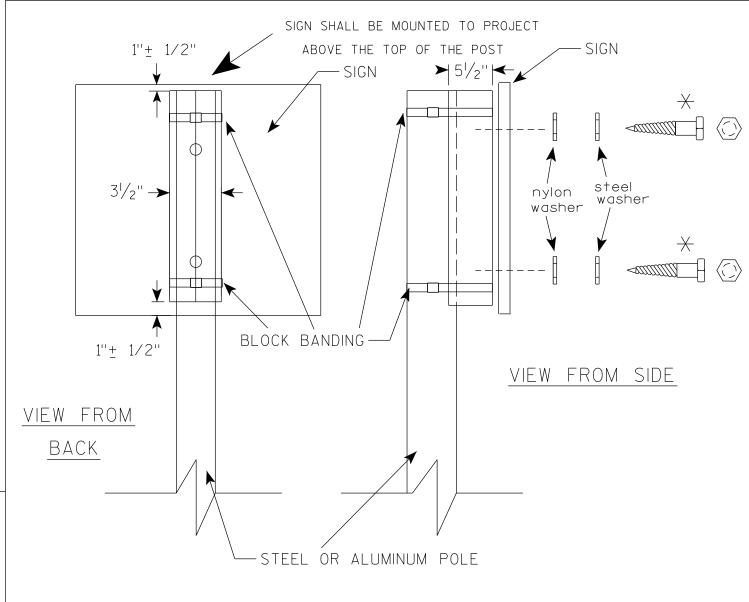
PLOT BY: mscj9h

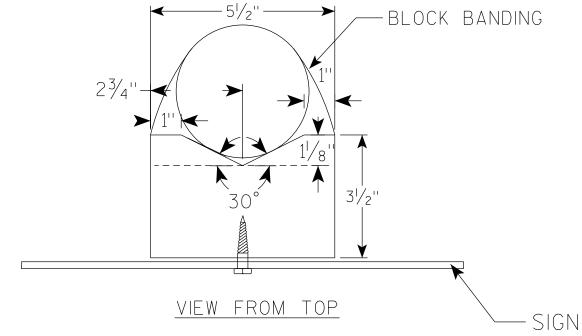
CHANNEL

PLOT NAME :

Ε SHEET NO: 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

APPROVED

For State Traffic Engineer

Matthew R

DATE 6/10/19

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

PROJECT NO:

ATE _________

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

PLOT BY: mscj9h

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

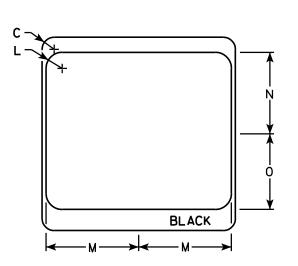
Background - White & Black - See Note 7 Message - Black

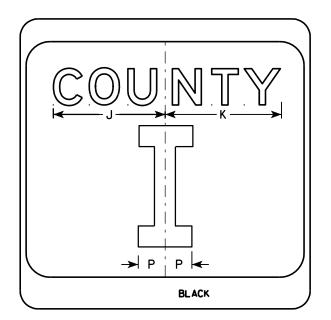
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

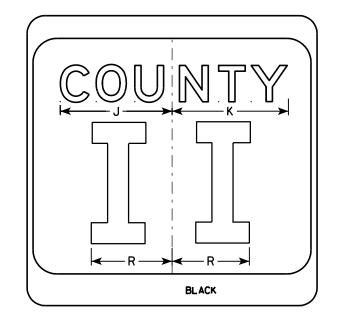
 Message Series D for 2 letters unless
 message is too big then Series C.

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

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







SIZE	Α	В	С	D	E	F	G	Н	I	J	K	٦	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 %	2	11 1/2	10 1/8	9 3/8	2 1/4		6 %									4.0
3	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
4	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
PRO	IFCT	NO:	·		·	·	Luv	VY:		·	·		COUN	TV•		·				·	·		·				

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther K Rauch

Forstate Traffic Engineer

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

SHEET NO:

BLACK

M1-5A

PLOT NAME :

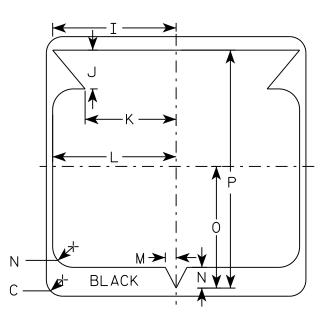
PLOT SCALE: 5.959043:1.000000

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

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

	G F A H H
A A	
M1-6	1



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 1/8	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 ¾	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 3/16/18

PLATE NO. <u>M1-6.10</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M16.DGN

HWY:

PROJECT NO:

PLOT DATE: 16-MAR-2018 14:11

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

PLOT SCALE : 6.655277:1.000000

- 1. Sign is Type II Type H
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M2-1 Background White

Message - Black

MB2-1 Background - Blue

Message - White

MK2-1 Background - Green

Message - White

MM2-1 Background - White

Message - Green

MN2-1 Background - Brown

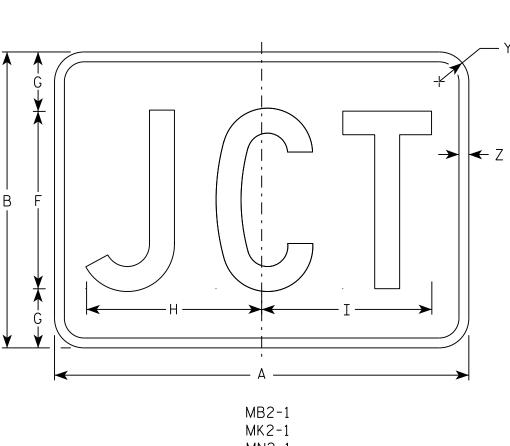
Message - White

MP2-1 Background - White

Message - Blue

MR2-1 Background - Brown

Message - Yellow



MN2-1

MR2-1

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	J	V	W	Х	Υ	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 1/8	8 %																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40

COUNTY:

В

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch f_{or} State Traffic Engineer

DATE 10/15/15

PLATE NO. M2-1.12 Ε

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdplote\M21 DGN

PROJECT NO:

M2-1

HWY:

MM2-1

MP2-1

PLOT DATE . 01-DEC-2015 17:54

PLOT BY . \$\$ Diotuser \$\$ PLOT NAME :

PLOT SCALE • 4 864603•1 000000







MP3-1









HWY:



NOTES

- 1. All Signs Type II Type H
- 2. Color:

Background - See note 5 Message - See note 5

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

5. M3-1 thru M3-4 Background - White Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

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

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1 1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 **SERIES**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15 PLATE NO. M3-1.14

Ε

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdnlote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000

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

Background - Orange Message - Black

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

) A G	
	;
→ G →	
Y	

Α С E F G H I J S Х Z D 0 10 10 1/4 1 1/8 3/8 3/8 24 2.0 3 36 1 1/8 3/8 1/2 4 1/2 14 5/8 14 1/2 4.5 4 5

COUNTY:

STANDARD SIGN M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 11/10/10 PLATE NO. M4-8.2

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48.DGN

PROJECT NO:

HWY:

PLOT DATE: 10-NOV-2010 13:18

PLOT BY : ditjph

PLOT SCALE : 4.767

PLOT NAME :

PLOT SCALE: 4.767233:1.000000

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

2. Color:

Background - Orange Message - Black

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

 $D \longrightarrow$ Н M4-8A

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	w	Х	Y	Z	Area sq. ft.
$\parallel 1 \parallel$																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5				·	·						·				·												

COUNTY:

STANDARD SIGN M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther

For State Traffic Engineer DATE 3/9/11

PLATE NO. M4-8A.2

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48A.DGN

HWY:

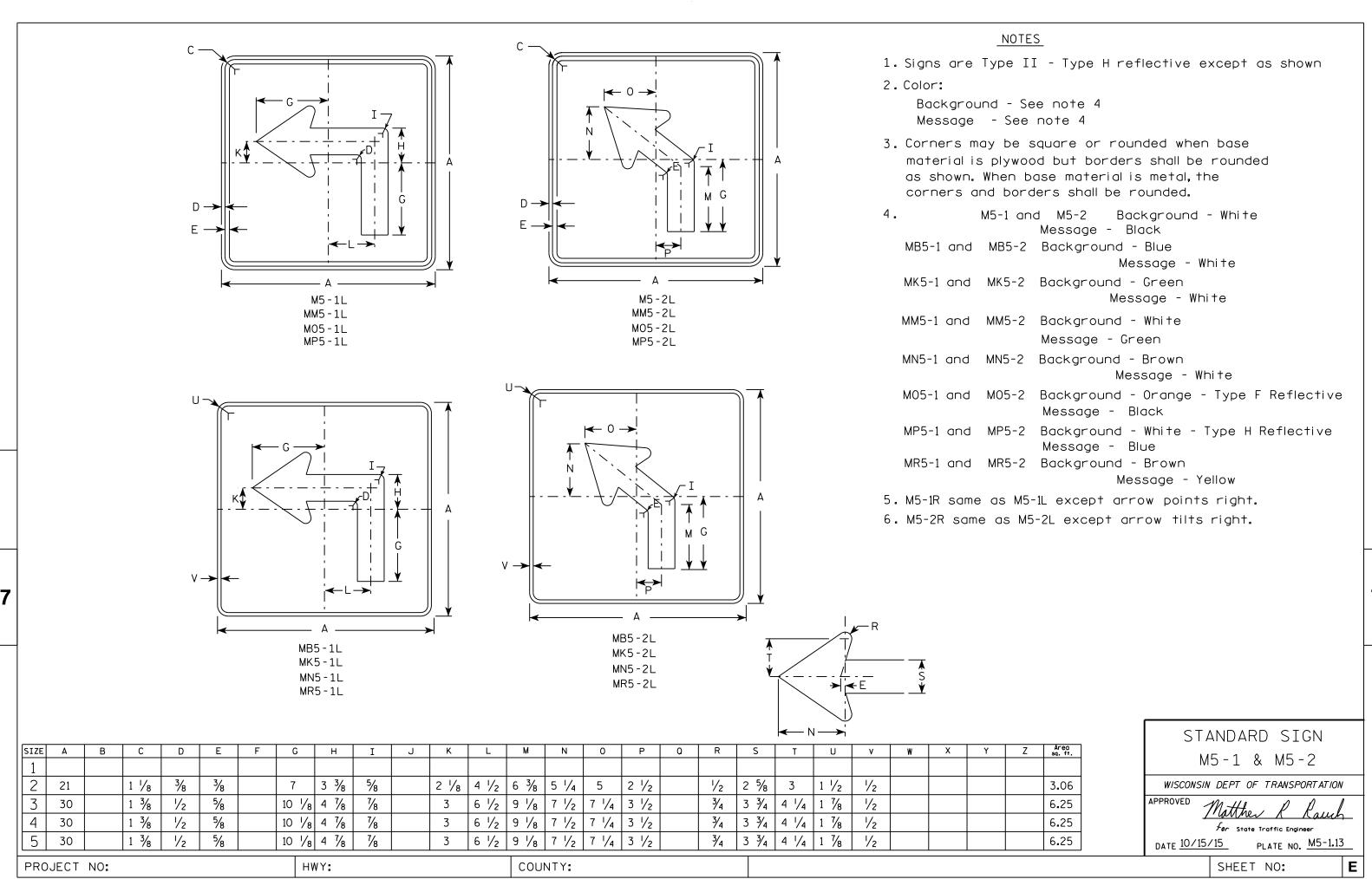
PROJECT NO:

PLOT DATE: 09-MAR-2011 10:29

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 3.972696:1.000000



FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

PLOT DATE . 01-DEC-2015 18:07

PINT RY . \$\$ DIOTUSET \$\$ PINT NAMF :

PLOT SCALE . 11 675051.1 000000







MR6-1

HWY:



NOTES

- 1. Signs are Type II Type H except as Shown
- 2. Color:

Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-1 and M6-2 Background White

Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

M06-1 and M06-2 Background - Orange - Type F Reflective

Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1 1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 %	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rawl For State Traffic Engineer

Ε

DATE 10/15/15 PLATE NO. M6-1.15

SHEET NO:

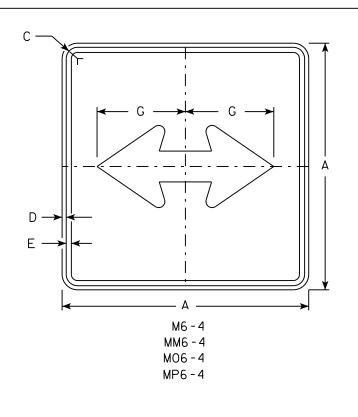
FILE NAME · C·\CAFfiles\Projects\tr stdplote\M61 DCN

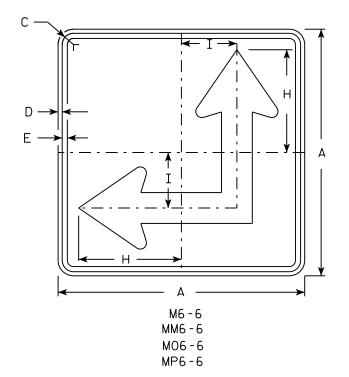
PROJECT NO:

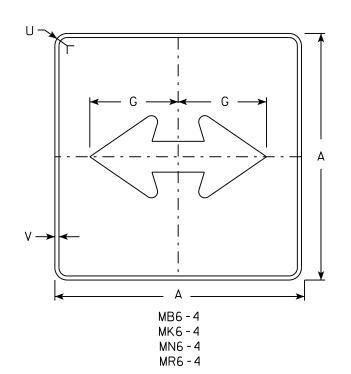
PLOT DATE . 01-DEC-2015 17:57

PIOT RY . \$\$ plotuser \$\$ PIOT NAMF :

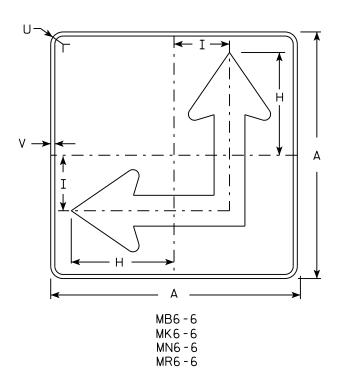
PLOT SCALE . 11 675051.1 000000







HWY:



NOTES

- 1. Signs are Type II Type H except as Shown
- 2. Color:

Background - See Note 4 Message - See Note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-4 and M6-6 Background White Message - Black

MB6-4 and MB6-6 Background - Blue

Message - White

MK6-4 and MK6-6 Background - Green

Message - White

and MM6-6 Background - White MM6-4

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

M06-4 and M06-6 Background - Orange - Type F Reflective

Message - Black

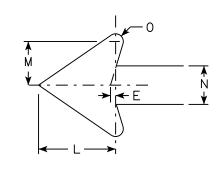
MP6-4 and MP6-6 Background - White

Message - Blue

MR6-4 and MR6-6 Background - Brown

Message - Yellow

5. M6-6R same as M6-6L except arrow points ahead and right.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	a	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
																											==

COUNTY:

STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 10/15/15

PLATE NO. M6-4.10 Ε

PLOT DATE . 01-DEC-2015 17.58

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000

PROJECT NO:



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

Background - Red Message - White

3. Message Series - C

*								— А — ;											A	
									H			- G -							F	A
		E						 	-1			_//								*
D	E	F	G	н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

COUNTY:

STANDARD SIGN R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE <u>11/12/15</u>

PLATE NO. ____R1-1.13

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN

HWY:

PROJECT NO:

PLOT DATE: 22-AUG-2017 07:19

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

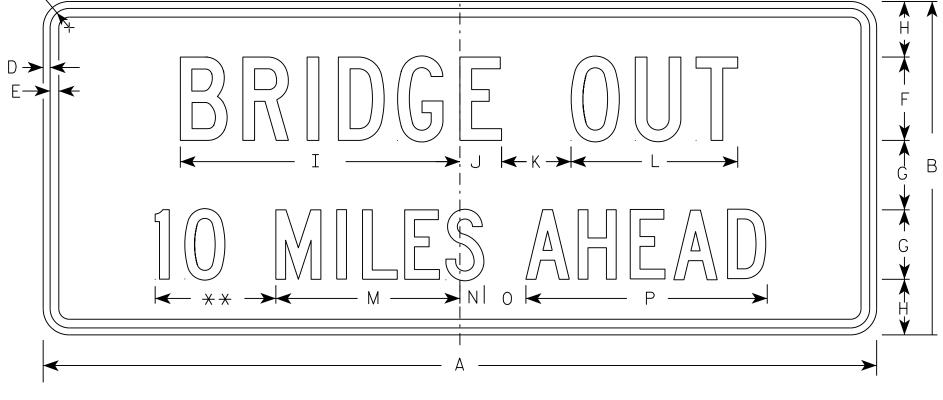
PLOT SCALE: 4.427909:1.000000



- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

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



R11-3C

** See Note 5

1/4 MILF AH

SIZE	Α	В	С	D	E	F	G	Н	I	٦	K	L	М	N	0	Р	Q	R	S	Т	C	٧	W	Х	Υ	Z	Area sq. ft.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 ¾		7 1/8									3.75
2S	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
3																											
4																											
5																											

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE <u>7/28/16</u>

PLATE NO. R11-3C.3

SHEET NO:

PROJECT NO:

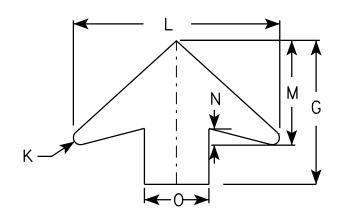
00 S3-1

NOTES

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

Background - YELLOW-GREEN Message - BLACK except as noted Circles except PEDS- RED BACKGROUND

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



RROW	DFTAII

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	12 1/2	5 1/4	5 ½	1/2	16	8	1 1/4	5	1 1/2		6 %	5 %	10 %							6.25
2	36		1 %	5/8	₹4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 %	6	1 1/8		7 1/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 1/8	20 1/8	8 %	8 3/4	7 ⁄8	25 %	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	₹4	1	10	17 1/8	20 1/8	8 %	8 ¾	1 / ₈	25 %	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN S3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer DATE <u>6/8/10</u>

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\S31.DGN

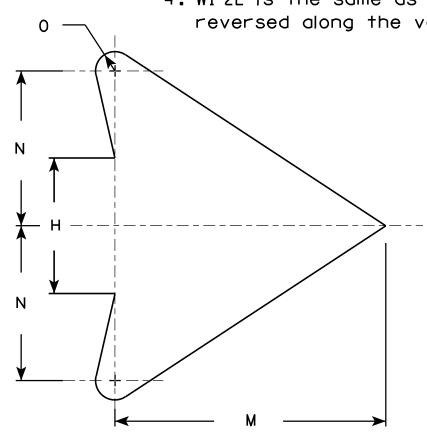
PROJECT NO:

PLATE NO. <u>\$3-1.6</u>

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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



		W1-2R B															<u> </u>	11011	DLIA	<u></u>							
SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	M	N	0	Р	0	R	S	Т	U	v	W	×	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
25	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 %	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 %	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0
					•	·		•	•									•					•				•

COUNTY:

STANDARD SIGN W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch For State Traffic Engineer

DATE <u>5/15/12</u>

PLATE NO. W1-2.10

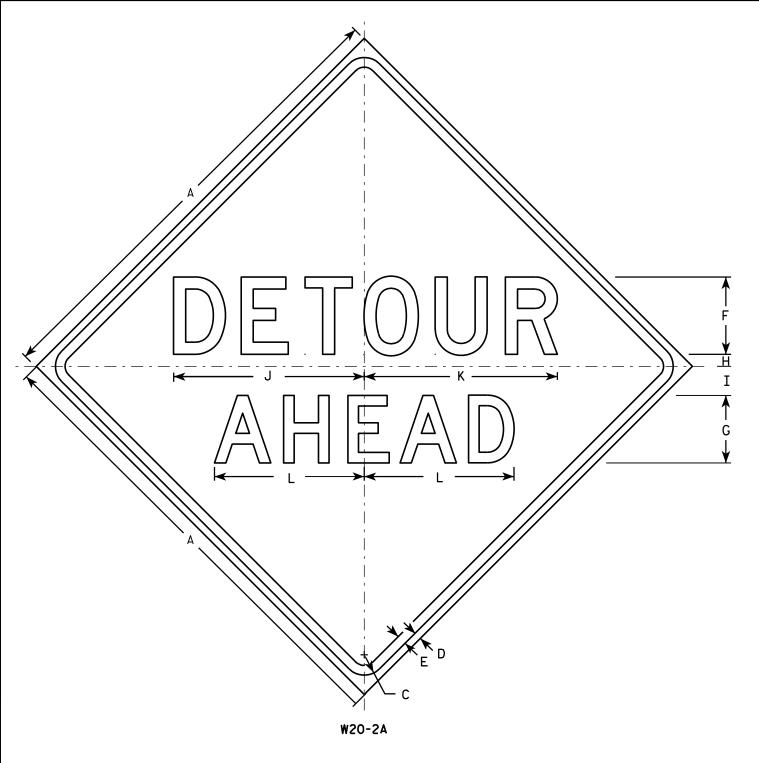
SHEET NO:

PROJECT NO:

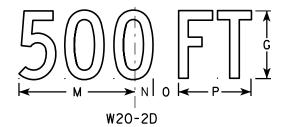
← H →

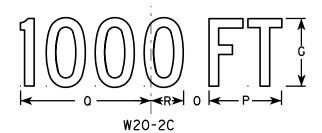
HWY:

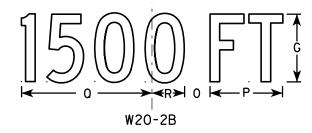


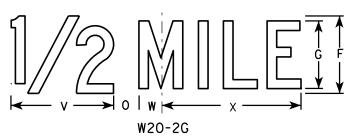


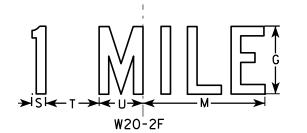
HWY:











PLOT BY: mscj9h

<u>NOTES</u>

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

Background - Orange Message - Black

- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Line 1 is Series D.
 Line 2 is Series D for AHEAD and
 Series C for all other distances.

SIZE	. Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 1/8	5/8	₹4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 1/8	5 %	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
3	48		2 1/4	₹4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 ½	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
4	48		2 1/4	₹4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 %	2 3/8	14 3/8	·		16.0

COUNTY:

STANDARD SIGN W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

DATE 3/18/11 PLATE NO. W20-2.6

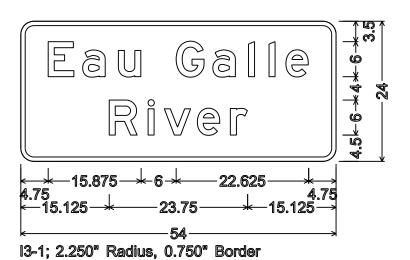
SHEET NO:

PROJECT NO:

- 1. All Signs Type II Type H Reflective
- 2. Color:

Background - Green Message - White

3. Message Series - E



PROJECT NO: 7105-00-72

HWY:STH 72

COUNTY: DUNN

PERMANENT SIGNING

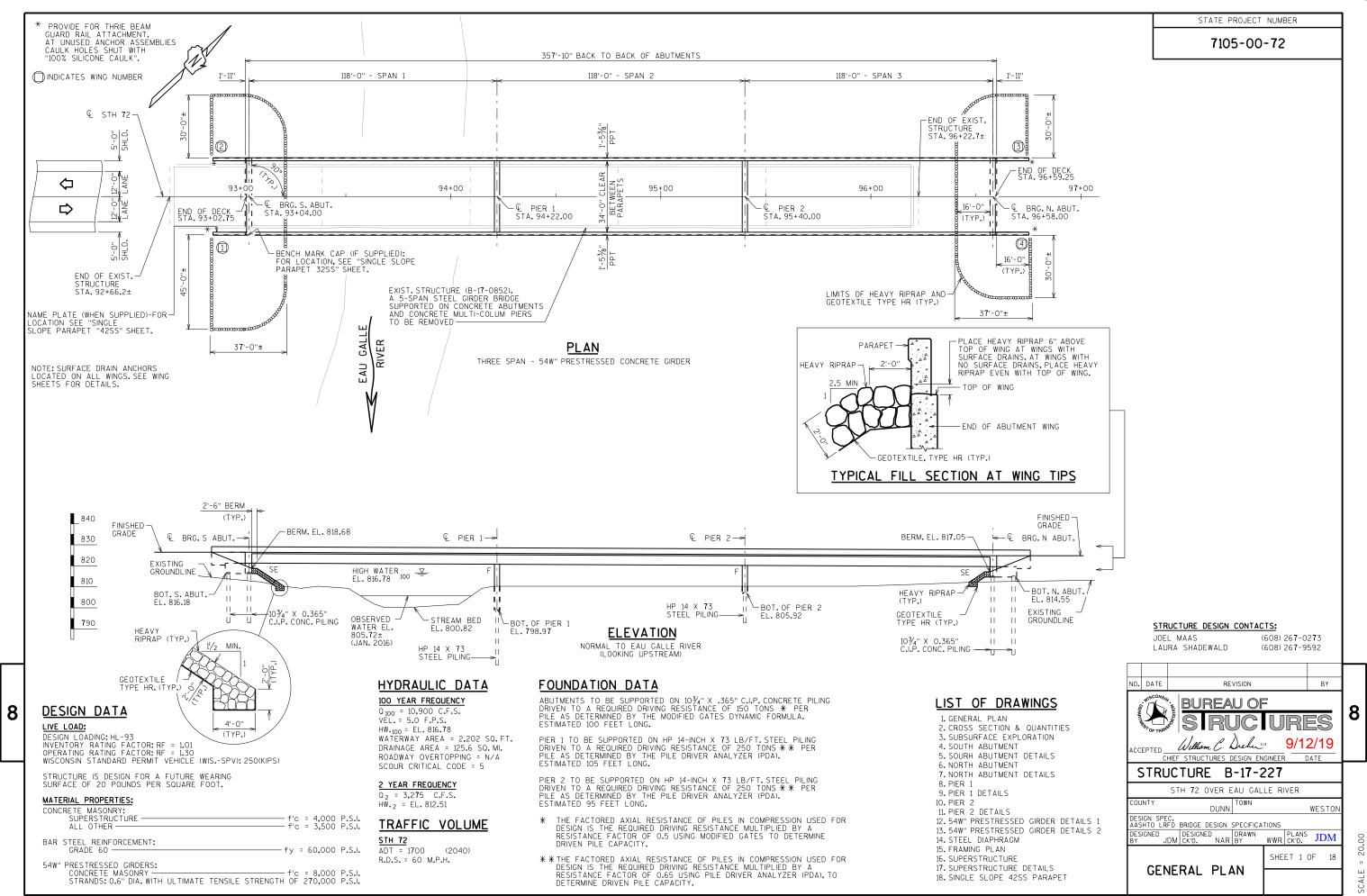
SHEET NO:

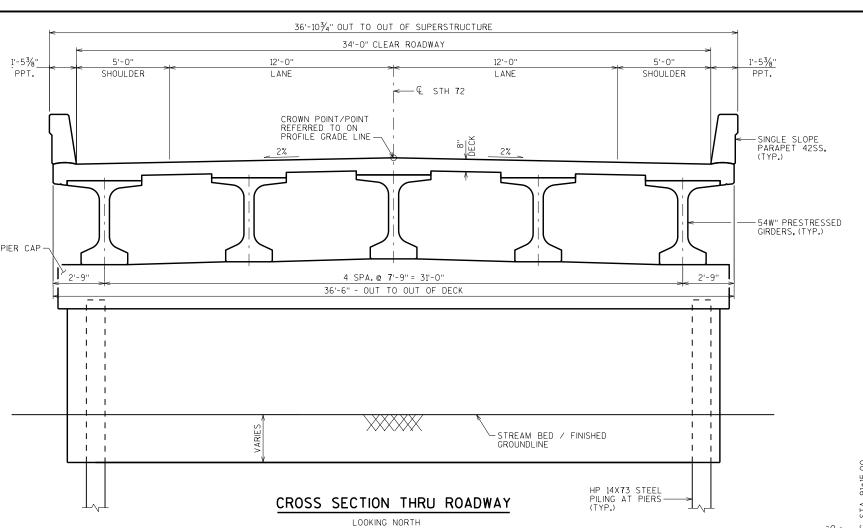
Ε

FILE NAME : C:\CAEfiles\Projects\tr_d6\6172a518.DGN

PLOT DATE: 09-MAY-2018 15:38

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





TOTAL ESTIMATED QUANTITIES

8

	BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	SOUTH ABUT.	PIER 1	PIER 2	NORTH ABUT.	TOTALS
	203.0600.5	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 95+00	LS						1
	206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-17-227	LS						1
*	206.5000	COFFERDAMS B-17-227	LS						1
	210.1500	BACKFILL STRUCTURE TYPE A	TON		267			267	534
	502.0100	CONCRETE MASONRY BRIDGES	CY	56 7	47	7 3	49	47	7 83
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	134 7					1347
	502.3210	PIGMENTED SURFACE SEALER	SY	351	16			16	383
	503.0155	PRESTRESSED GIRDER TYPE I 54W-INCH	LF	1773					1773
	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		2420	3750	2680	2420	11,270
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	121,310	3270			3260	127,840
	506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH		5	10	10	5	30
	506.4000	STEEL DIAPHRAGMS B-17-227	EACH	24					24
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		11			11	22
	550.1140	PILING STEEL HP 14-INCH X 73 LB	LF			1155	1045		2200
	550.2106	PILING CIP CONCRETE 10 3/4 X 0.365-INCH	LF		1300			1300	2600
	606.0300	RIPRAP HEAVY	CY		265			230	495
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		69			69	138
	614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4					4
	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		35			35	70
	645.0120	GEOTEXTILE TYPE HR	SY		465			400	865
	SPV.0060	PILE DYNAMIC ANALYZER (PDA) TESTING	EACH			2	2		4
	SPV.0060	PILE DYNAMIC ANALYZER (PDA) RESTRIKES	EACH			2	2		4
	SPV.0060	CASE PILE WAVE ANALYSIS PROGRAM (CAPWAP) EVALUATION	EACH			1	1		2
		NON-BID ITEMS							
		FILLER	SIZE						1/2", 3/4", 11/2"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

7105-00-72

STATE PROJECT NUMBER

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-17-227" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

EXCAVATION BELOW THE ABUTMENT AND USE OF ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL.GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-O" ABOVE BOTTOM

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK SURFACE.

PIGMENTED PROTECTIVE SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON WINGS.

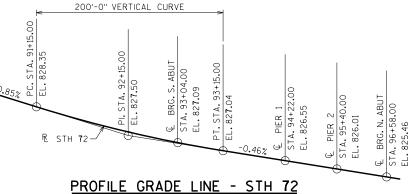
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE "HR" TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

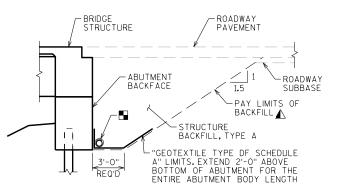
THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "54W PRESTRESSED GIRDER DETAILS 2" SHEET.

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

AT PIER 1, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

* INSTALL COFFERDAM AT PIER 1





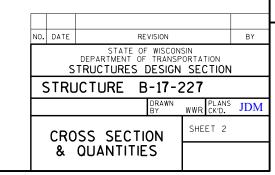
TYPICAL SECTION THRU ABUTMENT

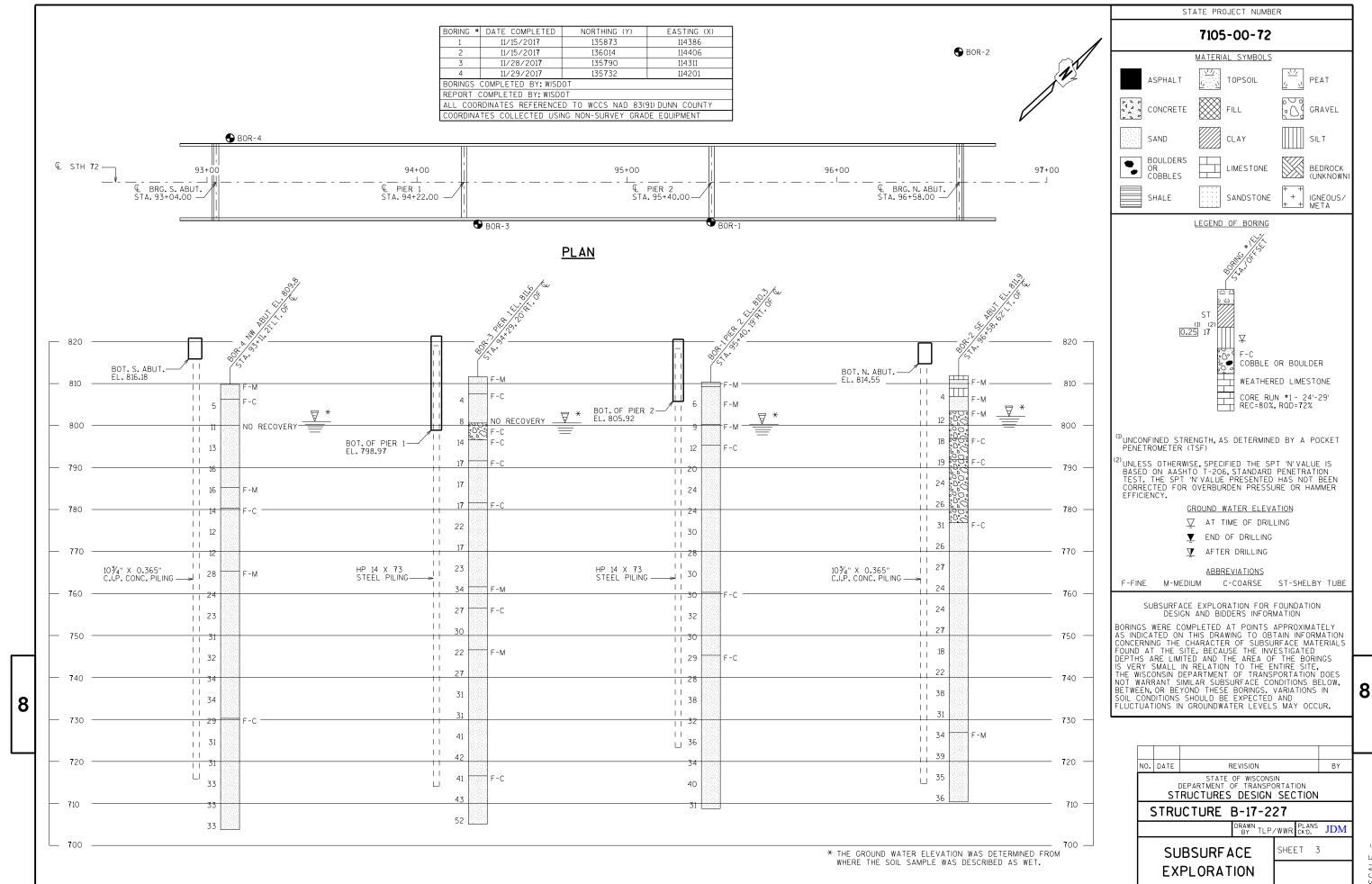
- ⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES, LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6 INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.



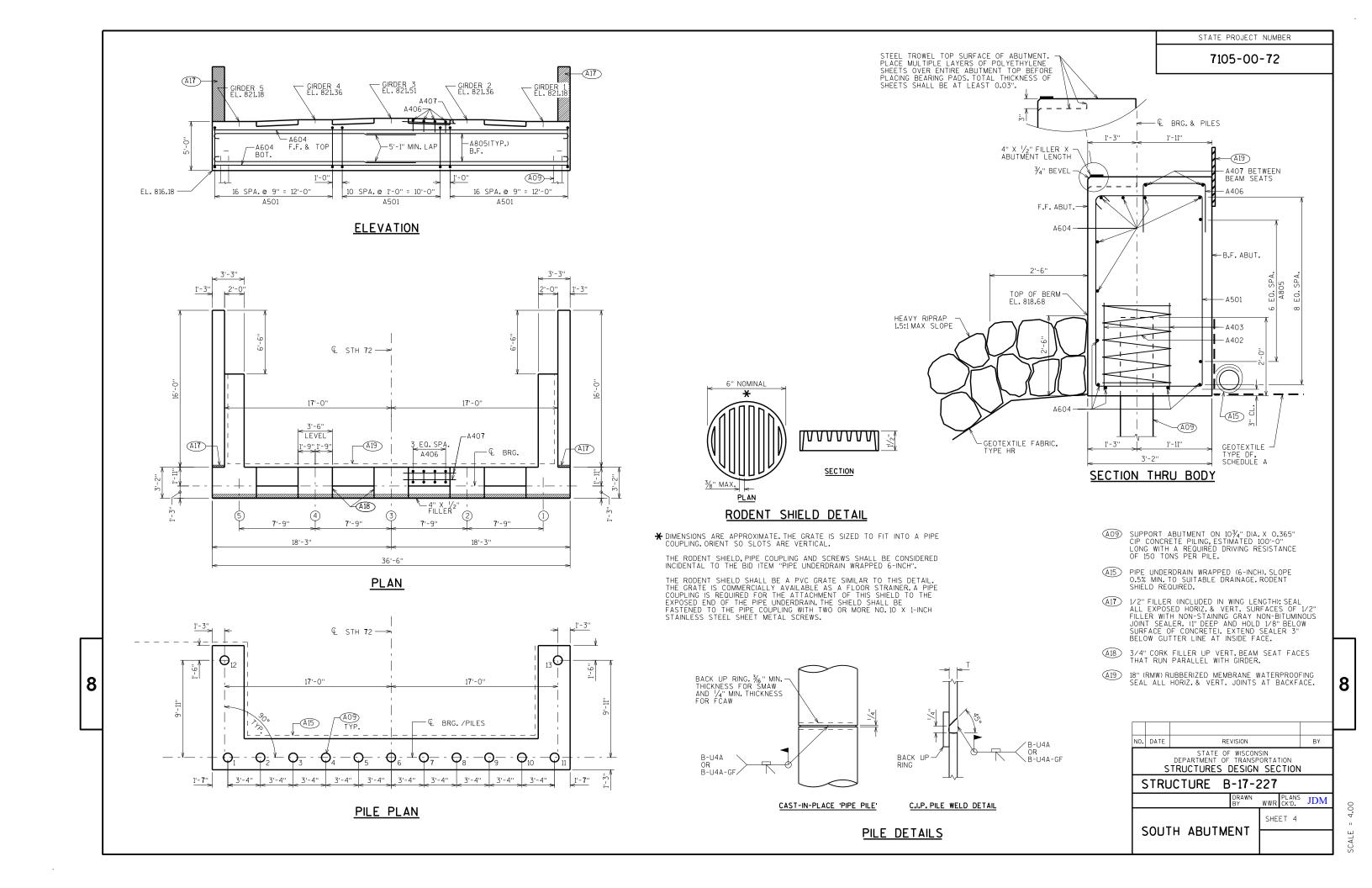
ABUTMENT BACKFILL DIAGRAM FOR WINGS PARALLEL TO ROADWAY

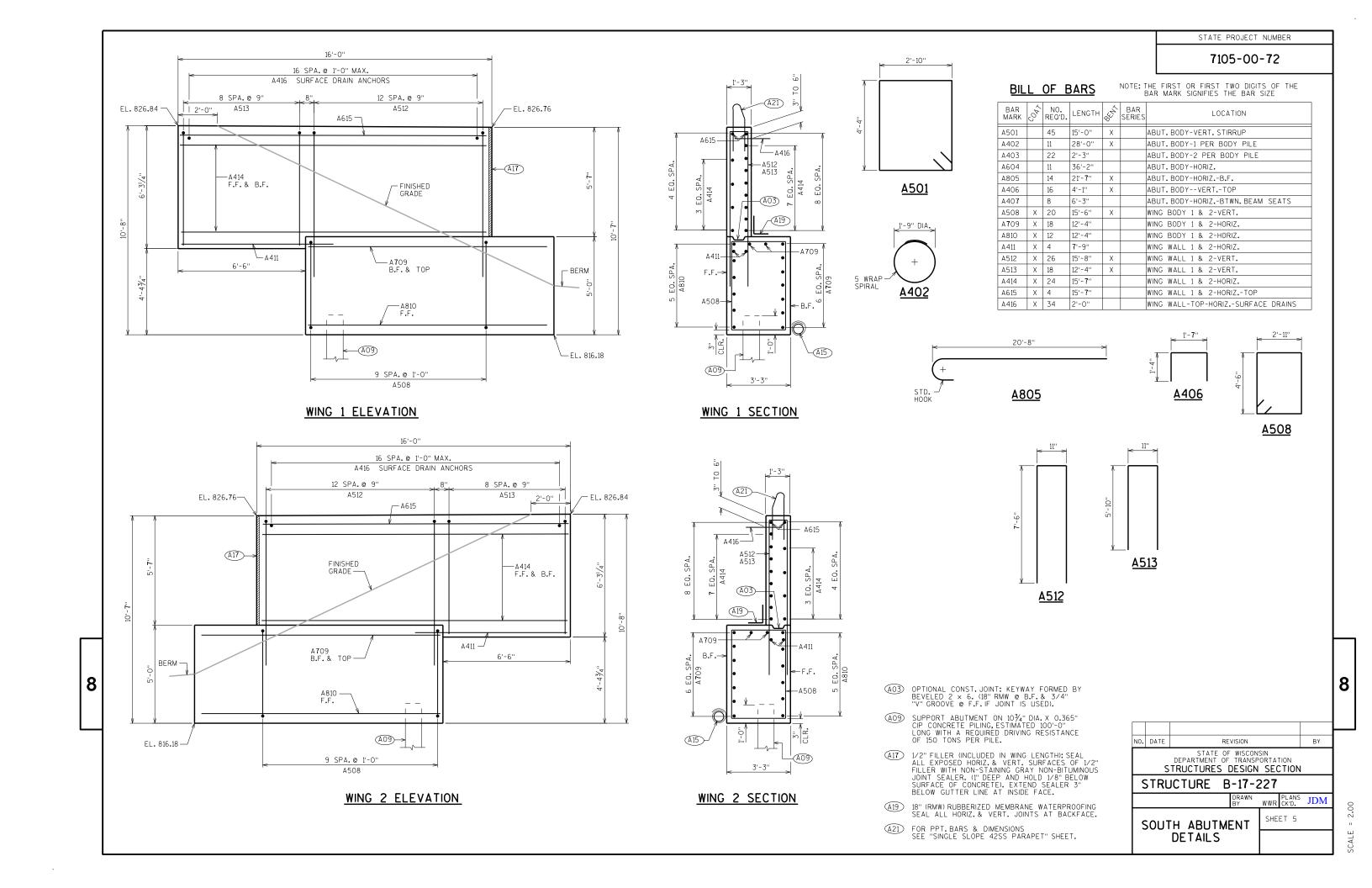
- = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)
- = AVERAGE ABUTMENT FILL HEIGHT (FT) = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
- $V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)$ $V_{CY} = V_{CF}(EF)/27$
- $V_{CY} = V_{CF} (EF)/27$ $V_{TON} = V_{CY} (2.0)$

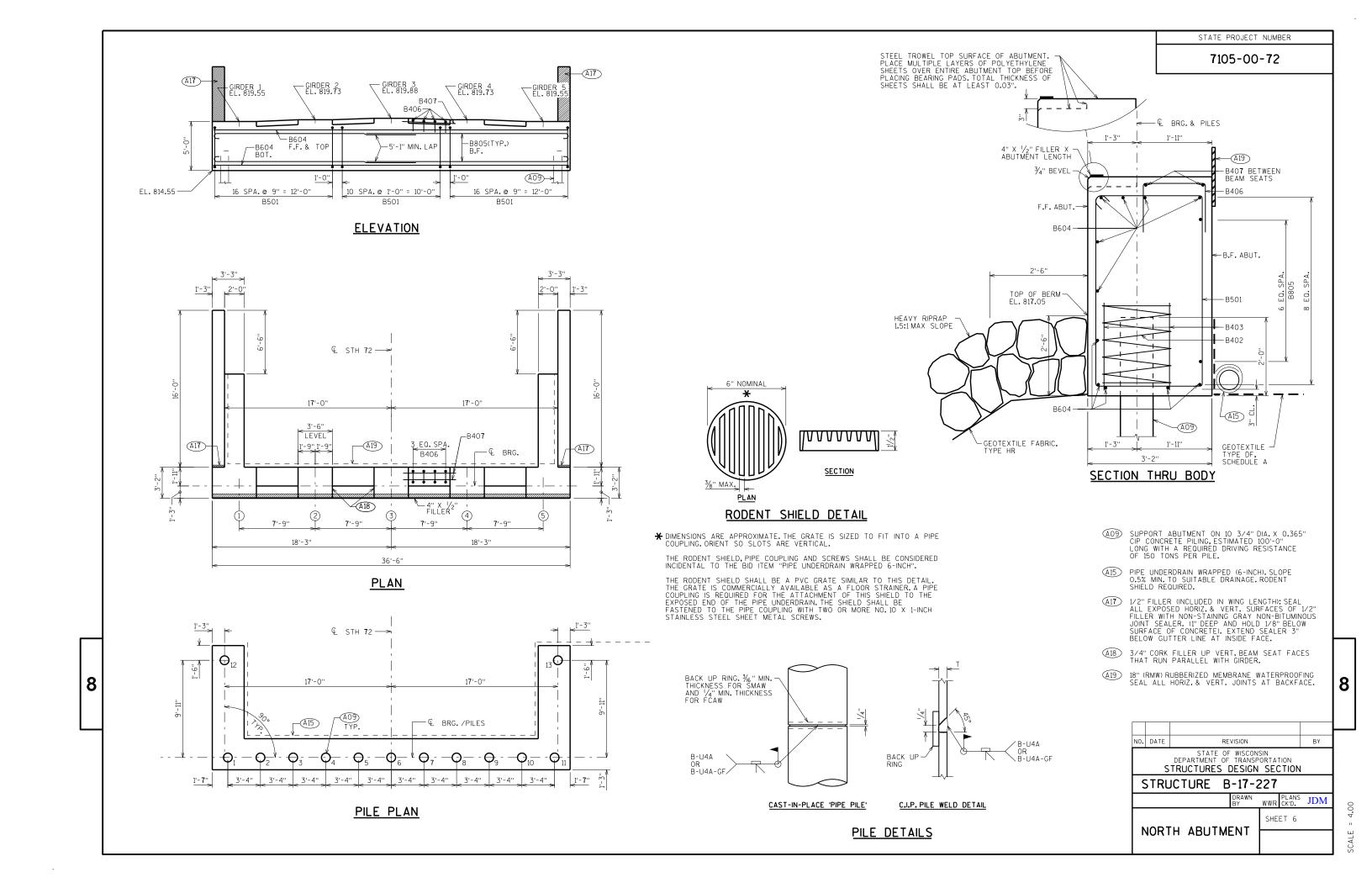


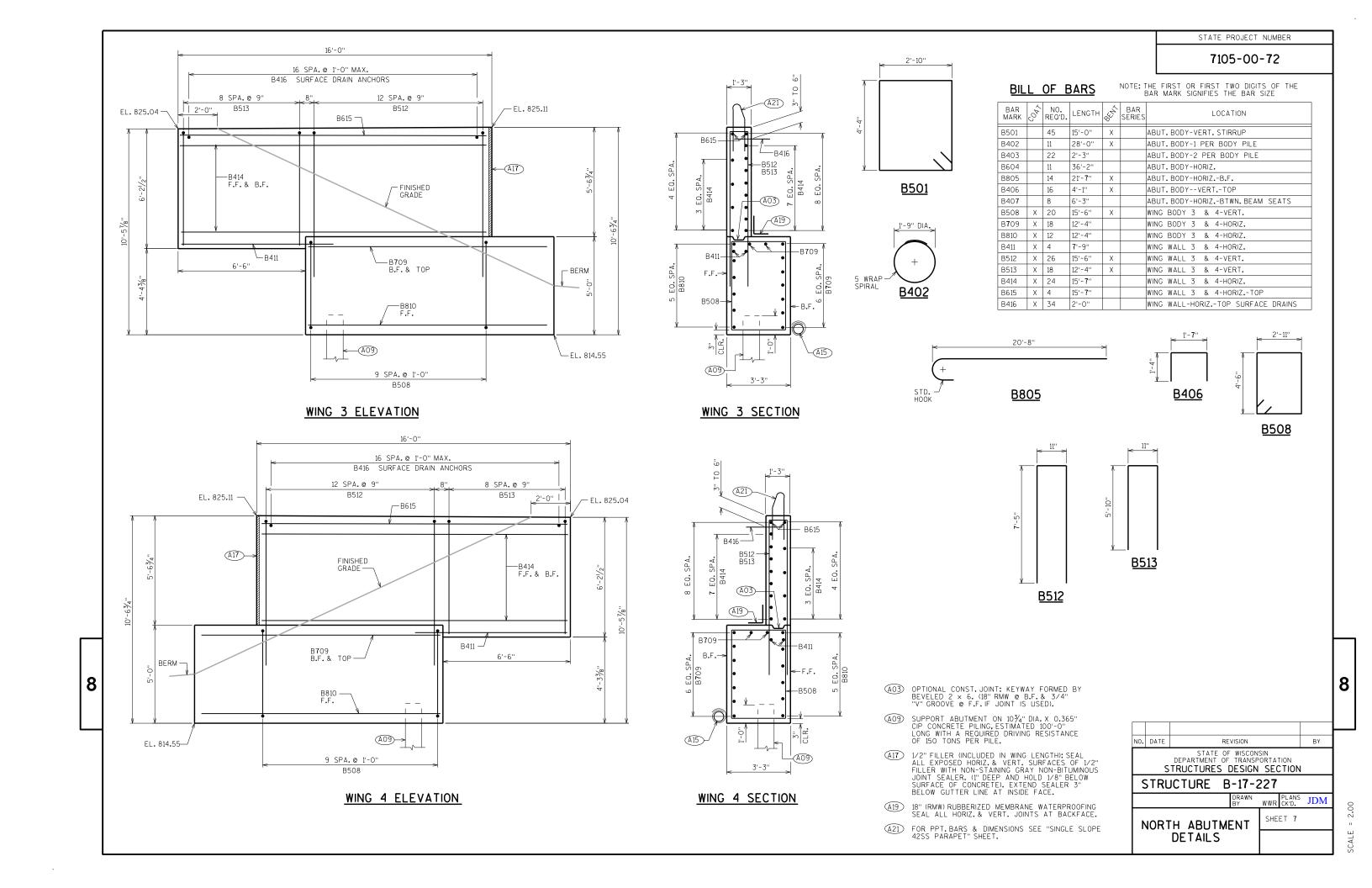


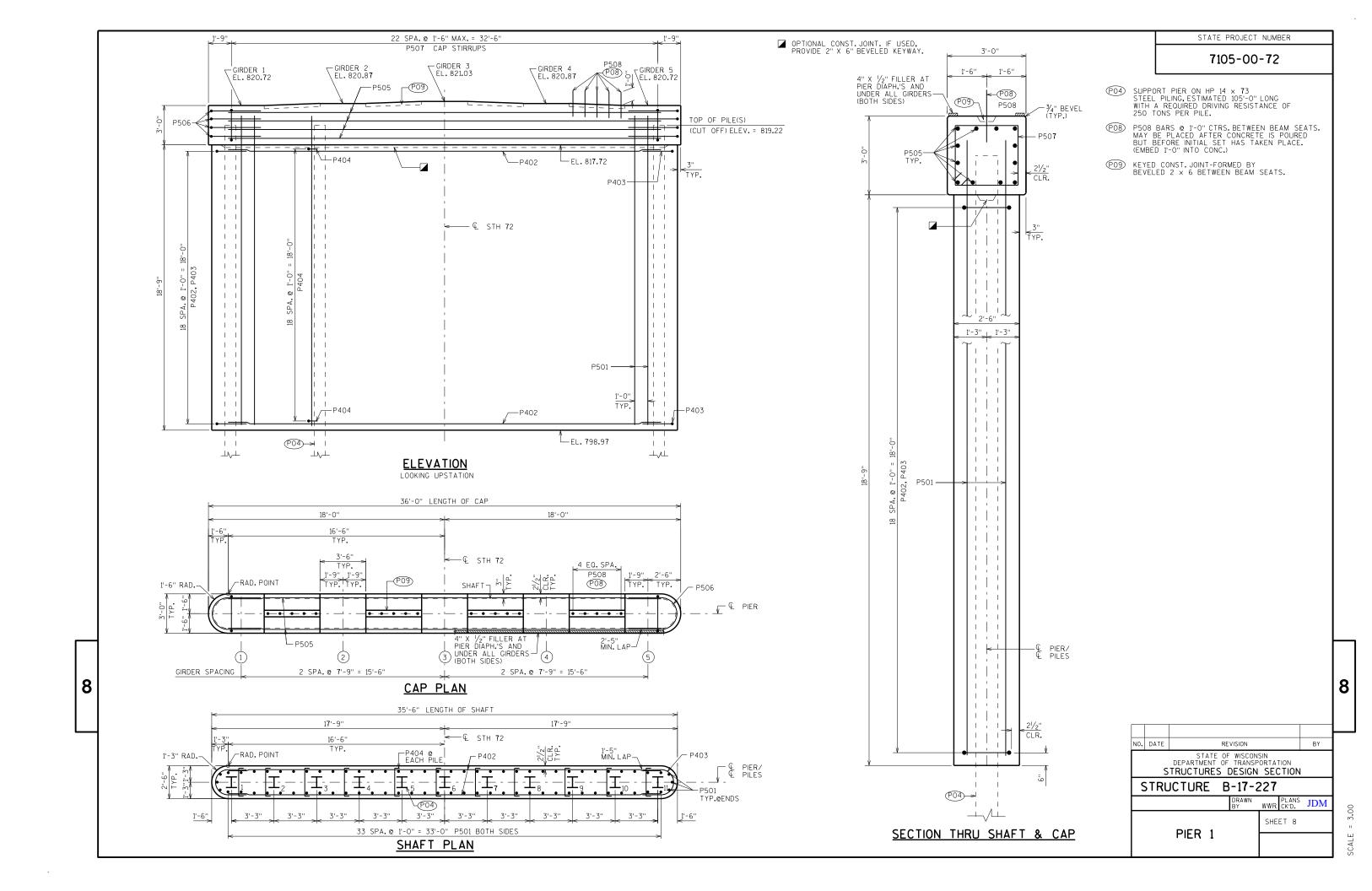
SCALE





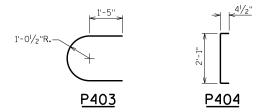


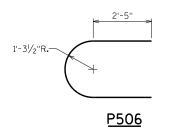


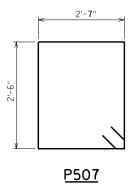




7105-00-72



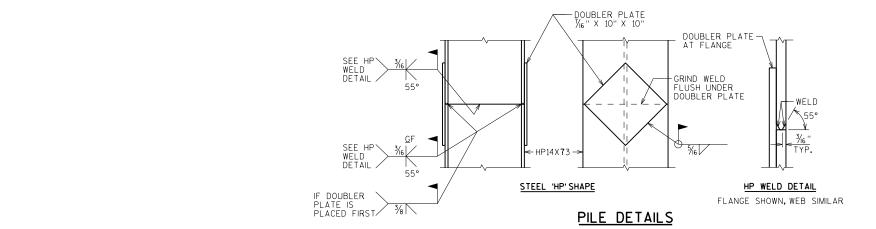




BILL OF BARS

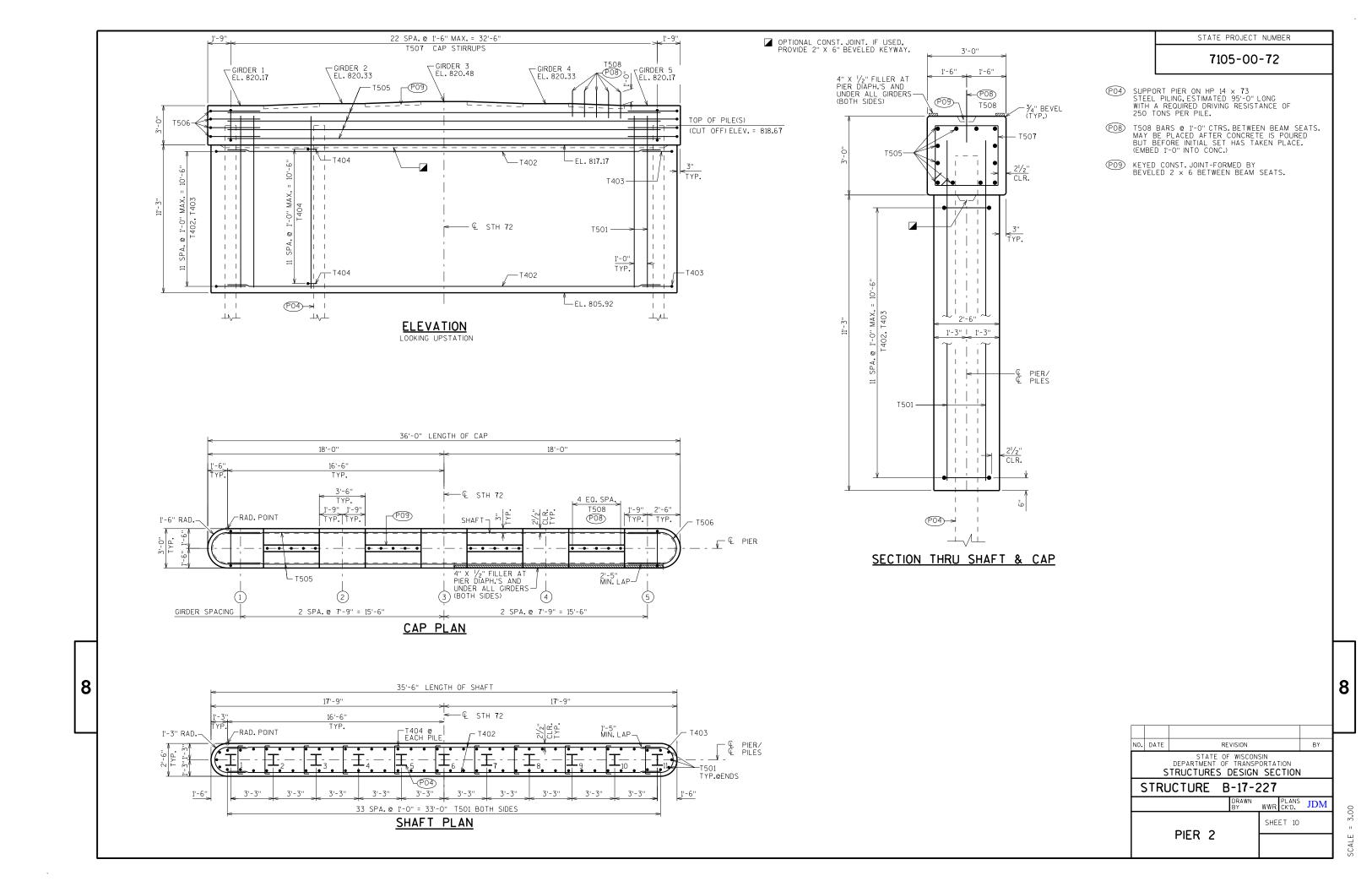
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

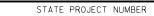
<u> </u>		<u> </u>				BAR MARK SIGNIFIES THE BAR SIZE
BAR MARK	00	NO. REQ'D.	LENGTH	SELT.	BAR SERIES	LOCATION
P501		74	20'-9"			SHAFT/CAP-VERT.
P402		38	33'-0"			SHAFT-HORIZ.
P403		38	6'-2"	Х		SHAFT-HORIZ. ENDS
P404		209	2'-8"	Х		SHAFT-HORIZ. TIE BARS
P505		12	33'-0"			CAP-HORIZ.
P506		8	8'-11''	Х		CAPHORIZ.ENDS
P50 7		23	10'-10"	Х		CAP-VERT. STIRRUPS
P508		20	2'-0''			CAP-VERT. DOWELS
-		I.	1		ı	



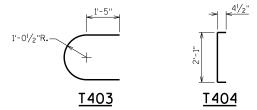
8

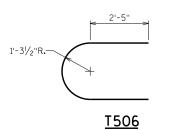
SCALE = 1.00

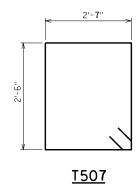




7105-00-72



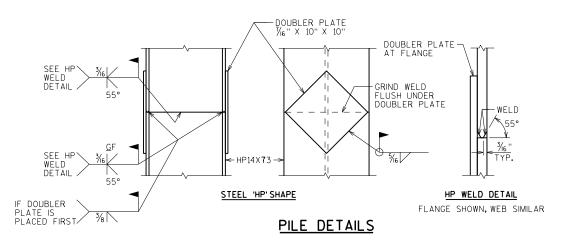




BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	780°	NO. REQ'D.	LENGTH	SEN S	BAR SERIES	LOCATION
T501		74	13'-3"			SHAFT/CAP-VERT.
T402		24	33'-0"			SHAFT-HORIZ.
T403		24	6'-2"	Х		SHAFT-HORIZ. ENDS
T404		132	2'-8"	Х		SHAFT-HORIZ. TIE BARS
T505		12	33'-0"			CAP-HORIZ.
T506		8	8'-11''	Х		CAPHORIZ.ENDS
T50 7		23	10'-10"	Х		CAP-VERT. STIRRUPS
T508		20	2'-0"			CAP-VERT. DOWELS
				-		



NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-17-227

DRAWN
BY
WWR CKD. JDM

PIER 2 DETAILS Y WWR CK'D. JI

8

SCALE = 1.00



7105-00-72

NOTES

<u>7³⁄</u>4″

20 SPA.@ 8" = 13'-4" -

14 SPA.@ 10" = 11'-8" ---

1'-83/4"

#4 @ 1'-0" BETWEEN. 3'-9" LONG

#4 @ 5" FOR 15'-0" EACH END,

— ¾" X ¾" BEVEL

39'-51/2"

39'-3"

2" X 1" BEVEL-

DIAPH, INSERT SPACING

DIAPH. INSERT

SPACING

1'-0''_

#6 BAR

2 @ EACH END 8 @ EACH END

46 SPA.@ 1'-6" = 69'-0"

47 SPA.@ 1'-6" = 70'-6"

(IN.)

STIRRUPS

1'-83/4''

" MIN.

CLEAR

 $(4\frac{1}{2}" LEG)$

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 15" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 15" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER OR EPOXY TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECT. 503.3.3 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

STRANDS SHALL BE FLUSH WITH END OF GIRDER.FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

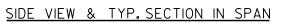
ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A1064 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.



39'-51/2"

39'-3"

GIRDER LENGTH = "L"

- #4,2'-3" LONG, PLACE AT #4 STIRRUP SPACING BETWEEN LIMITS OF #3 STIRRUP PAIRS.

(A) DETAIL TYP. AT EACH END

73/4"__

SPANS 1 & 3 -

LIMITS ÖF #3 STIRRUP PAIRS-

18 SPA.@ 5" (A)

= 7'-6"

39'-51/2"

39'-3"

SPAN 2

- 20 SPA.@ 8" = 13'-4"

└─ 14 SPA. @ 10" = 11'-8"

#4 STIRRLIPS

(4¹/₂" LEG)

#4 STIRRUPS &

#3 BARS

#4 BAR, EPOXY COATED. PLACE @ STIRRUP SPACING. EMBED INTO GIRDER 1'-3".—

NO BEVEL-

(6) #4 BARS, FULL LENGTH, MIN. LAP = 1'-11" SPANS 1,2,3

* MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

													GIRE	ER D	ΑΤΑ										
																		ATTERN							
	SPAN	GIRDER	"L"	1/10	2/10	³∕ ₁₀	4/ ₁₀	5/10	6/ ₁₀	7∕10	8/ ₁₀		f'c	OF '	OF S	OF	STRAND	NO. OF	(P.S.I.)	"A"	"B"	"B"	"C"	NO. OF	f'ci (P.S.I.)
	1	1-5	118.375	0.7	1.3	1.7	2.0	2.1	1.8	1.7	1.2	0.7	8,000	8.5	7	8			- ' -	49			5	<u> </u>	
L	2	1-5	117.75	0.6	1.1	1.6	1.9	2.0	1.9	1.6	1.2	0.6	8,000	8	7. 5	8	0.6	30	6400	50	15.5	18.5	4		
	3	1-5	118 . 3 7 5	0.7	1.2	1.7	2.0	2.1	2.0	1.7	1.3	0.7	8,000	8.5	8	9	0.6	36	6400	49	16	19	5	\sim	

1'-71/2" 1'-10'' #3 BAR #3 BAR 29 PAIRS EACH END (EPOXY COATED) (EPOXY COATED) NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

#6 BAR

#5 BAR

WWR PLANS JDM

STRUCTURE B-17-227

54W" PRESTRESSED SHEET 12 GIRDER DETAILS 1

PLACE AS SHOWN-#6 BARS 1 PAIR EACH END #6 STIRRUPS 4 PAIRS EACH END

−#3 BAR 8

29 PAIRS EACH END-

TOP FLANGE

- #5 U-SHAPED BAR

4 PAIRS #6 STIRRUPS

11/2" DIA. HOLE AT ABUT. END ONLY-

#3 BARS

SECTION A-A

#6 BAR 1 PAIR EACH END-

۸₩

A₩

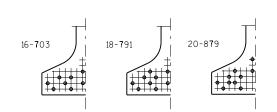
5 @ 4¹/₄' $L_{3^{1}/4^{"}} = 1^{1-9^{1}/4^{"}}$ 3'-2[|]/₂" (A)

4 @ 3"

BOTTOM FLANGE

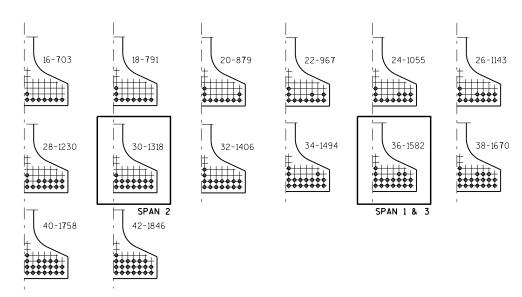
SPANS 1 &

SPAN 2



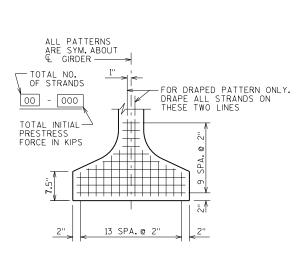
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"¢ STRANDS



ARRANGEMENT AT & SPAN - FOR GIRDERS WITH DRAPED STRANDS

O.6"¢ STRANDS



TYP. STRAND PATTERN

SLOPE BTM OF SLAB © EXTERIOR GIRDER TO MATCH THE SLOPE OF THE BTM OF TOP FLANGE

TIE BAR-

EXT. GIR.

IF 11/4" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN 1/2" OR, ** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

DECK HAUNCH DETAIL

INT. GIR.

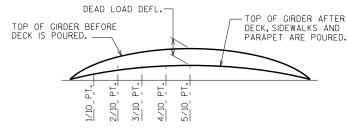
- DECK THICKNESS -

TO DETERMINE 'T', ELEV. OF TOP OF GIR'S, AT $\mathbb Q$ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

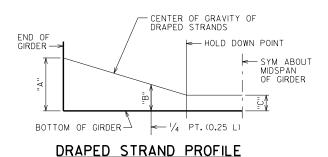
- TOP OF DECK ELEV.AT FINAL GRADE
 TOP OF GRDER ELEVATION
 DEAD LOAD DEFLECTION
 DECK THICKNESS

- = HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 3.25" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM



8

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER (IN.) *
1	3 . 5 7
2	2.72
3	3 . 5 7

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

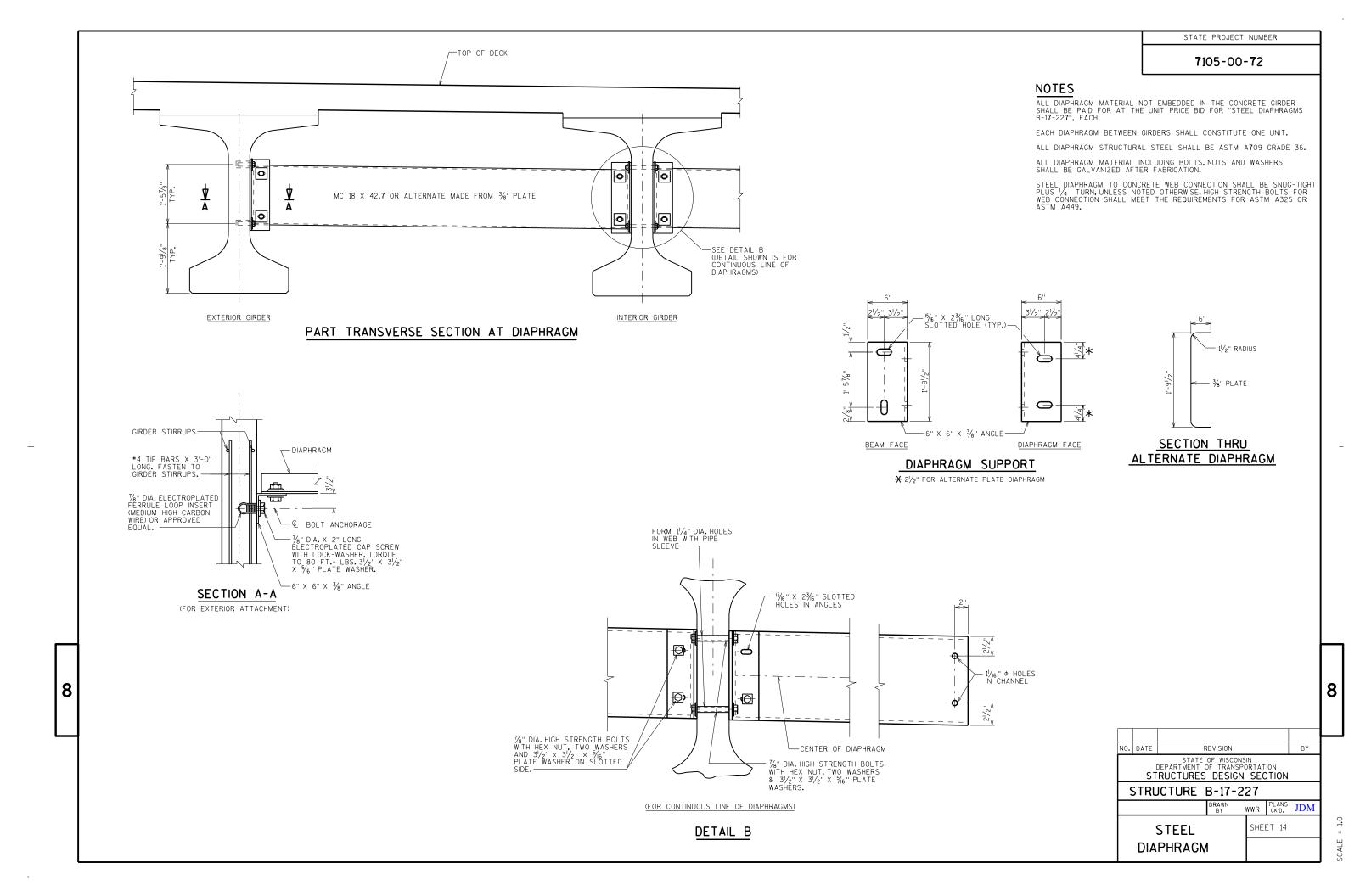
NO.	DATE	F	REVISION			BY
		STATE DEPARTMENT (RUCTURES		RTAT		
\(\square\)	STRL	ICTURE	B-17-2	27		
			DRAWN BY	WWR	PLANS CK'D.	JDM
54	w" f	PRESTRE	ESSED	SHE	ET 13	
GI	RDE	R DETA	ILS 2			

STATE PROJECT NUMBER

7105-00-72

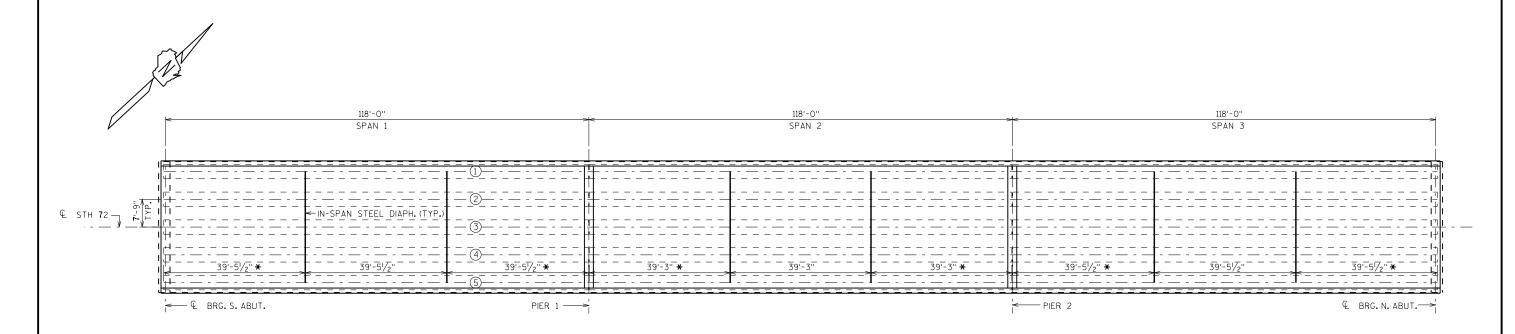
(1¹/₄" MIN.)

SCALE



STATE PROJECT NUMBER

7105-00-72



FRAMING PLAN

TOP OF DECK ELEVATIONS

8

	€ BRG. S. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7 /10 PT.	8/10 PT.	9/10 PT.	© PIER 1	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7 /10 PT.	8/10 PT.	9/10 PT.	€ PIER 2
LEFT EOD	826 .7 5	826 .7 0	826.64	826.59	826.53	826.48	826.42	826 . 3 7	826.32	826.26	826.21	826.15	826.10	826.04	825.99	825.94	825.88	825.83	825.77	825 .7 2	825.67
LEFT GL	826 .7 5	826 .7 0	826.64	826.59	826.53	826.48	826.42	826.37	826.32	826.26	826.21	826.15	826.10	826.04	825.99	825.94	825.88	825.83	825.77	825 .7 2	825.67
GIRDER 1	826 .7 8	826.73	826.67	826.62	826.56	826.51	826.45	826,40	826.35	826.29	826.24	826.18	826.13	826.0 7	826.02	825 . 9 7	825.91	825.86	825.80	825 .7 5	825 .7 0
GIRDER 2	826.94	826.88	826.83	826.77	826 .7 2	826.66	826.61	826.56	826.50	826.45	826.39	826.34	826.28	826.23	826.18	826.12	826 . 0 7	826.01	825.96	825.90	825.85
GIRDER 3/PGL	82 7. 09	82 7. 04	826.98	826.93	826 . 8 7	826.82	826 .7 6	826 .7 1	826.66	826.60	826.55	826.49	826.44	826.38	826.33	826.28	826.22	826 .17	826.11	826.06	826.01
GIRDER 4	826.94	826.88	826.83	826.77	826 .7 2	826.66	826.61	826.56	826.50	826.45	826.39	826.34	826.28	826.23	826.18	826.12	826.07	826.01	825.96	825.90	825.85
GIRDER 5	826 .7 8	826.73	826.67	826.62	826.56	826.51	826.45	826,40	826.35	826.29	826.24	826.18	826.13	826.07	826.02	825.97	825.91	825.86	825.80	825 .7 5	825 .7 0
LEFT GL	826 .7 5	826 .7 0	826.64	826.59	826.53	826.48	826.42	826.37	826.32	826.26	826.21	826.15	826.10	826.04	825.99	825.94	825.88	825.83	825 .77	825 .7 2	825 . 6 7
LEFT EOD	826 .7 5	826 .7 0	826.64	826.59	826.53	826.48	826.42	826 . 3 7	826.32	826.26	826.21	826.15	826.10	826.04	825.99	825.94	825.88	825.83	825.77	825 .7 2	825 .67

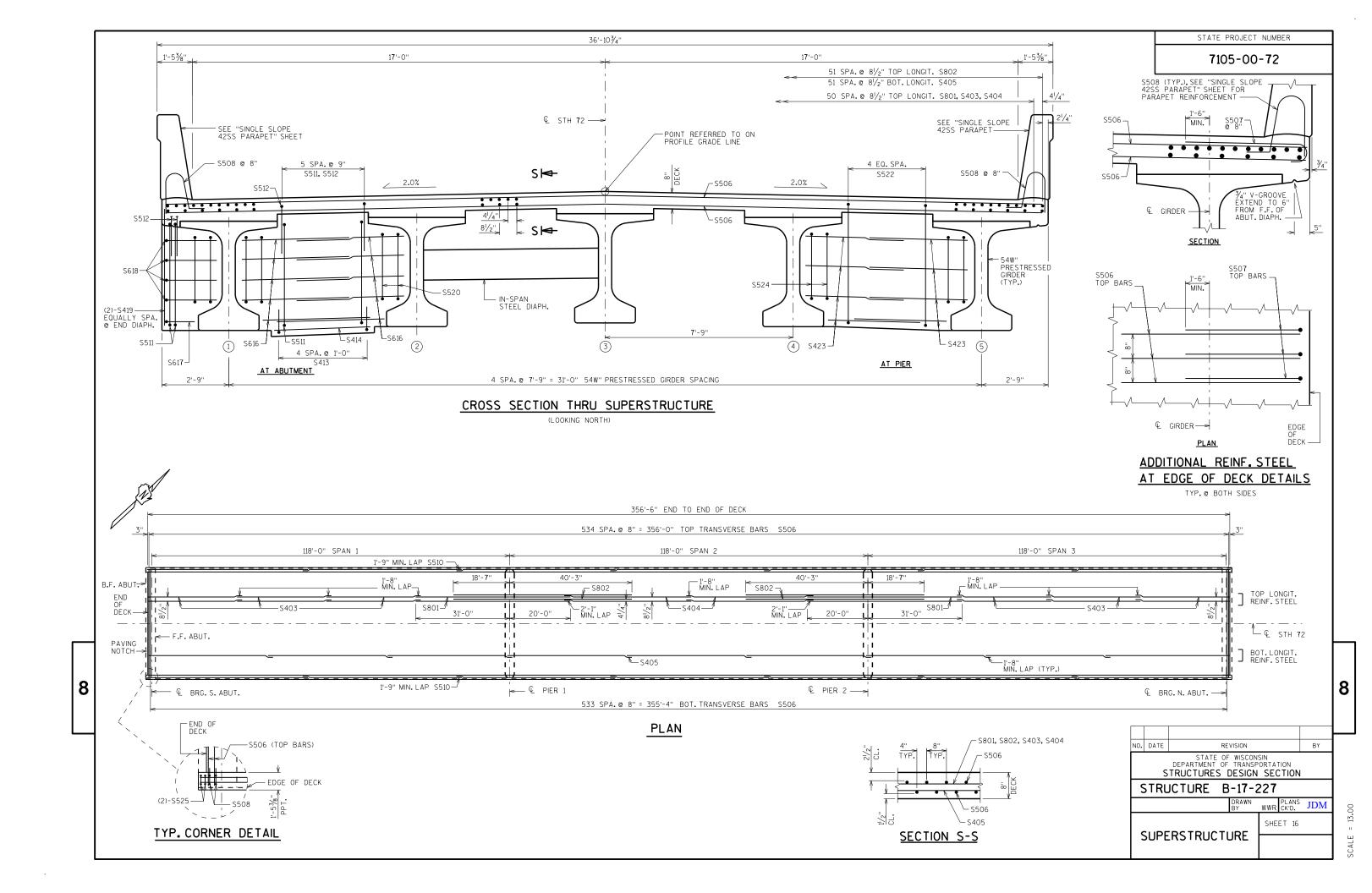
* DIMENSIONS GIVEN ARE FROM END OF GIRDER.

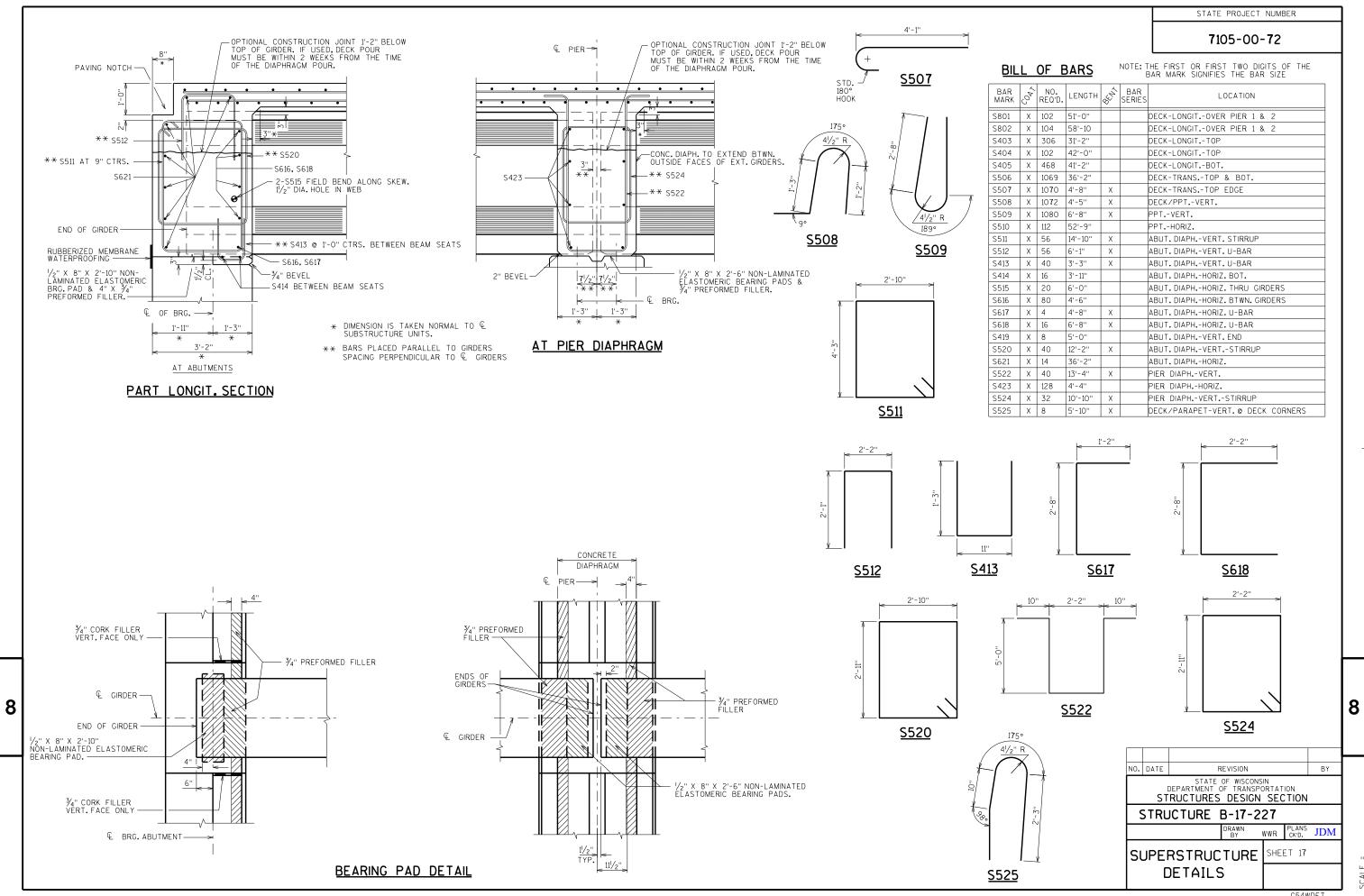
	€ PIER 2	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7 /10 PT.	8/10 PT.	9/10 PT.	€ BRG. N. ABUT.
LEFT EOD	825.67	825.61	825.56	825.50	825.45	825.39	825.34	825.29	825.23	825.18	825.12
LEFT GL	825.67	825.61	825.56	825.50	825.45	825.39	825.34	825.29	825,23	825.18	825.12
GIRDER 1	825 .7 0	825.64	825.59	825.53	825.48	825.42	825 . 3 7	825.32	825.26	825.21	825.15
GIRDER 2	825.85	825.80	825 .7 4	825.69	825.63	825.58	825.52	825 . 4 7	825.42	825.36	825.31
GIRDER 3/PGL	826.01	825.95	825.90	825.84	825 .7 9	825 .7 3	825.68	825.63	825 . 5 7	825.52	825.46
GIRDER 4	825.85	825.80	825 .7 4	825.69	825.63	825.58	825.52	825 .47	825.42	825.36	825.31
GIRDER 5	825.70	825.64	825.59	825.53	825.48	825.42	825.37	825.32	825,26	825.21	825.15
LEFT GL	825 . 6 7	825.61	825.56	825.50	825.45	825.39	825.34	825.29	825.23	825.18	825.12
LEFT EOD	825 . 6 7	825.61	825.56	825.50	825.45	825.39	825.34	825.29	825.23	825.18	825.12

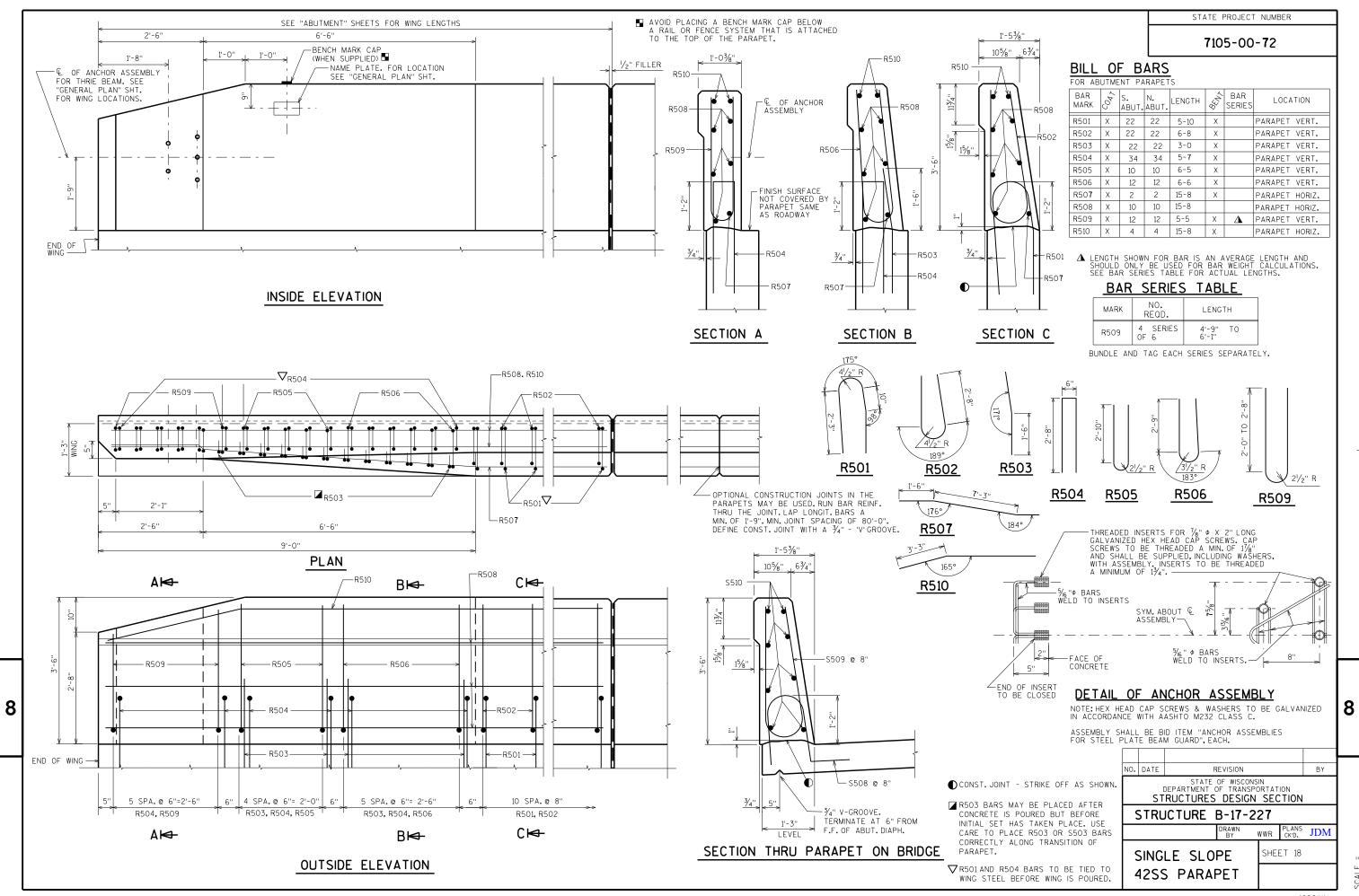
٧٥.	DATE	DATE REVISION						
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION								
STRUCTURE B-17-227								
			DRAWN BY	WWR	PLANS CK'D.	JDM		
	רה	A A 41 N I C	SHE					
	FKA	AMING F						

| 8

SCALE = 13.00







EARTHWORK - MAINLINE

	AREA (SF)		INCREME	NTAL VOLU	JME (CY)	CUMMULATIVE VOLUME (CY)			
			CUT	FILL	FILL (25%)	CUT 1.00		FILL (25%)	MASS ORDINATE
STATION	CUT	FILL	NOTE 1	NOTE 2	NOTE 3	NOTE 1	FILL	NOTE 3	NOTE 4
85+20	0	6	0	0	0	0	0	0	0
85+50	0	9	0	8	10	0	8	10	-10
86+00	0	40	0	45	56	0	53	66	-66
86+50	0	196	0	219	274	0	272	340	-340
87+00	0	178	0	346	433	0	618	773	-773
87+50	0	166	0	319	399	0	937	1172	-1172
88+00	0	188	0	328	410	0	1265	1582	-1582
88+00	0	254	0	0	0	0	1265	1582	-1582
88+50	0	315	0	527	659	0	1792	2241	-2241
89+00	0	394	O	656	820	0	2448	3061	-3061
89+50	0	378	0	715	894	0	3163	3955	-3955
90+00	0	334	0	659	824	0	3822	4779	-4779
90+50	0	263	0	553	691	0	4375	5470	-5470
90+90	5	125	4	287	359	4	4662	5829	-5825
91+00	10	118	3	45	56	7	4707	5885	-5878
91+50	5	101	14	203	254	21	4910	6139	-6118
92+00	6	52	10	142	178	31	5052	6317	-6286
92+50	51	30	53	76	95	84	5128	6412	-6328
93+00	51	30	94	56	70	178	5184	6482	-6304
93+02	51	30	4	2	3	182	5186	6485	-6303
93+02	0	0	0	0	0	182	5186	6485	-6303
96+60	0	0	0	0	0	182	5186	6485	-6303
96+60	51	119	0	0	0	182	5186	6485	-6303
97+00	51	119	76	176	220	258	5362	6705	-6447
97+50	5	223	52	317	396	310	5679	7101	-6791
98+00	5	334	9	516	645	319	6195	7746	-7427
98+50	5	339	9	623	779	328	6818	8525	-8197
98+75	0	255	2	275	344	330	7093	8869	-8539
99+00	0	188	0	205	256	330	7298	9125	-8795
99+25	0	114	0	140	175	330	7438	9300	-8970
	COLUM	N SUBTOTAL	S = 330	7438	9300				

EARTHWORK - FIELD ENTRANCE

	AREA (SF)		INCREMENTAL VOLUME (CY)			CUMMULATIVE VOLUME (CY)			
			CUT	FILL	FILL (25%)	CUT 1.00		FILL (25%)	MASS ORDINATE
STATION	CUT	FILL	NOTE 1	NOTE 2	NOTE 3	NOTE 1	FILL	NOTE 3	NOTE 4
50+17	0	7	0	0	0	0	0	0	0
50+50	2	8	1	9	11	1	9	11	-10
51+00	18	0	19	7	9	20	16	20	0

MAINLINE	330	7438	9300	330	7438	9300	-8970
FIFI D ENTRANCE	20	16	20	350	7454	9320	-8970

NOTES:

1 - CUT

2 - FILL

CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME FILL 25%: (UNEXPANDED FILL)*1.25 (CUT - FILL (25%))

3 - FILL (25%) 4 - MASS ORDINATE

PROJECT NO: 7105-00-72 HWY: STH 72

COUNTY: DUNN

EARTHWORK

SHEET

9

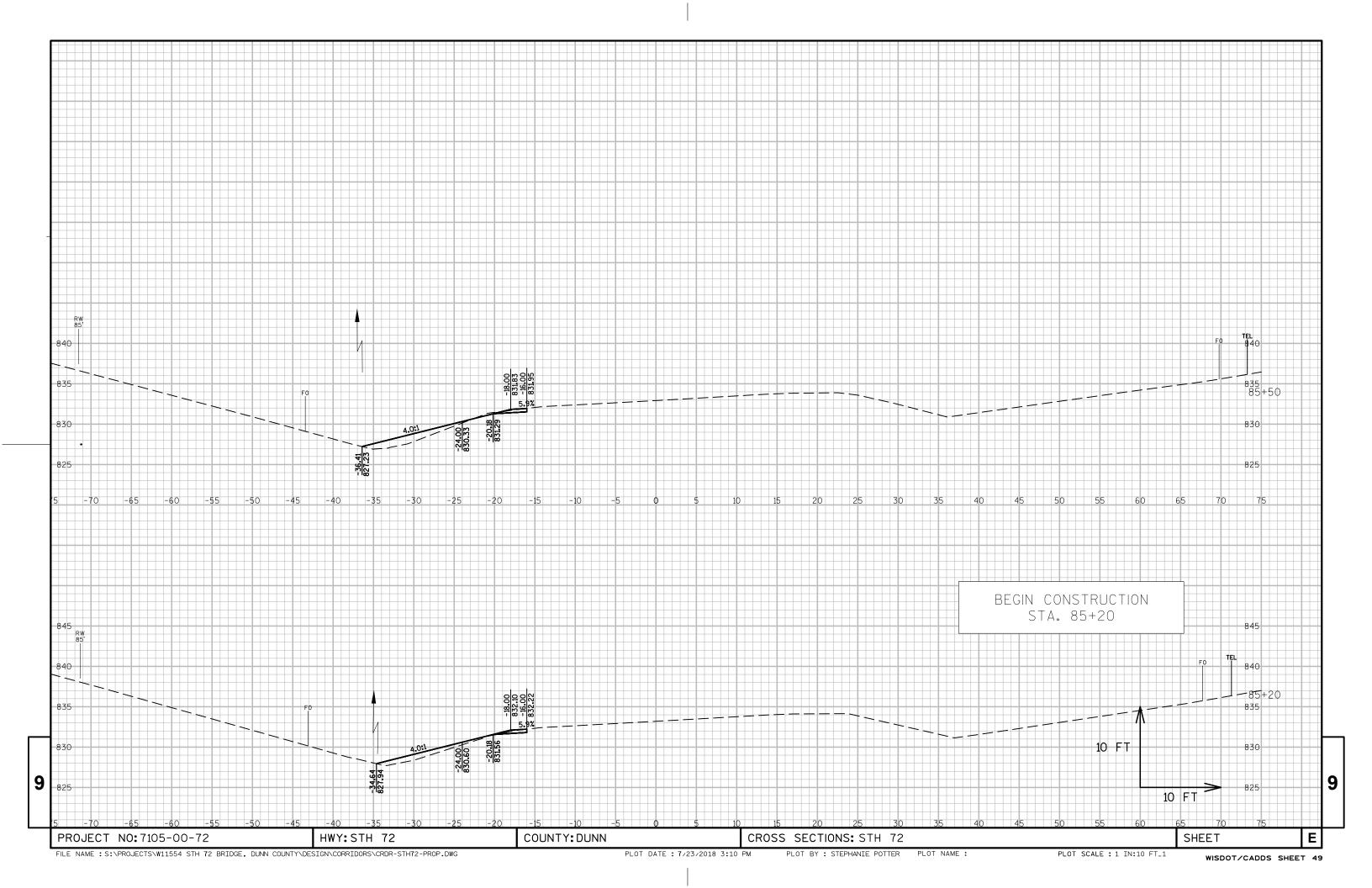
FILE NAME: S:\PROJECTS\W11554 STH 72 BRIDGE, DUNN COUNTY\SHEETSPLAN\EARTHWORK TABLE.DWG LAYOUT: MAINLINE

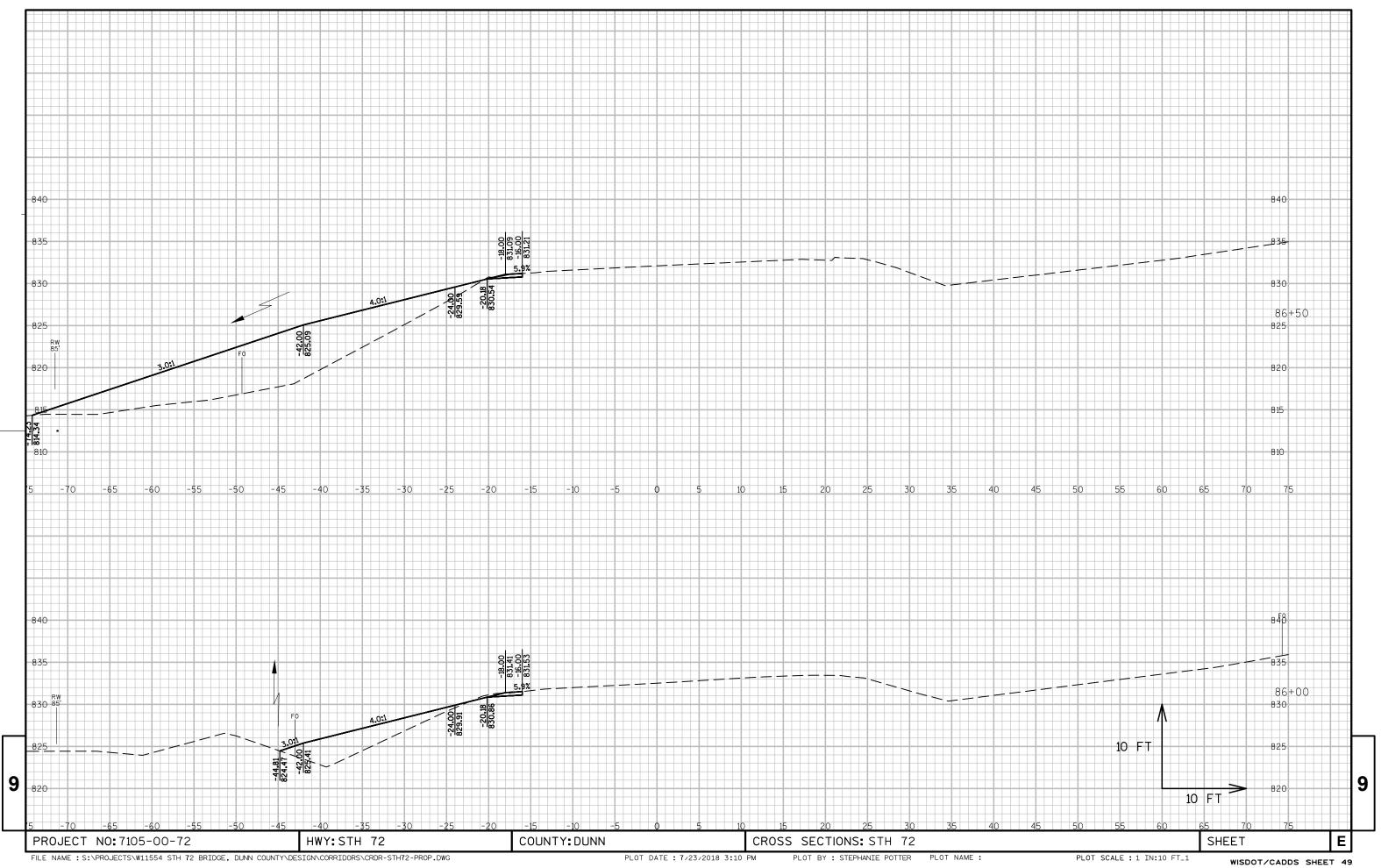
PLOT BY: STEPHANIE POTTER

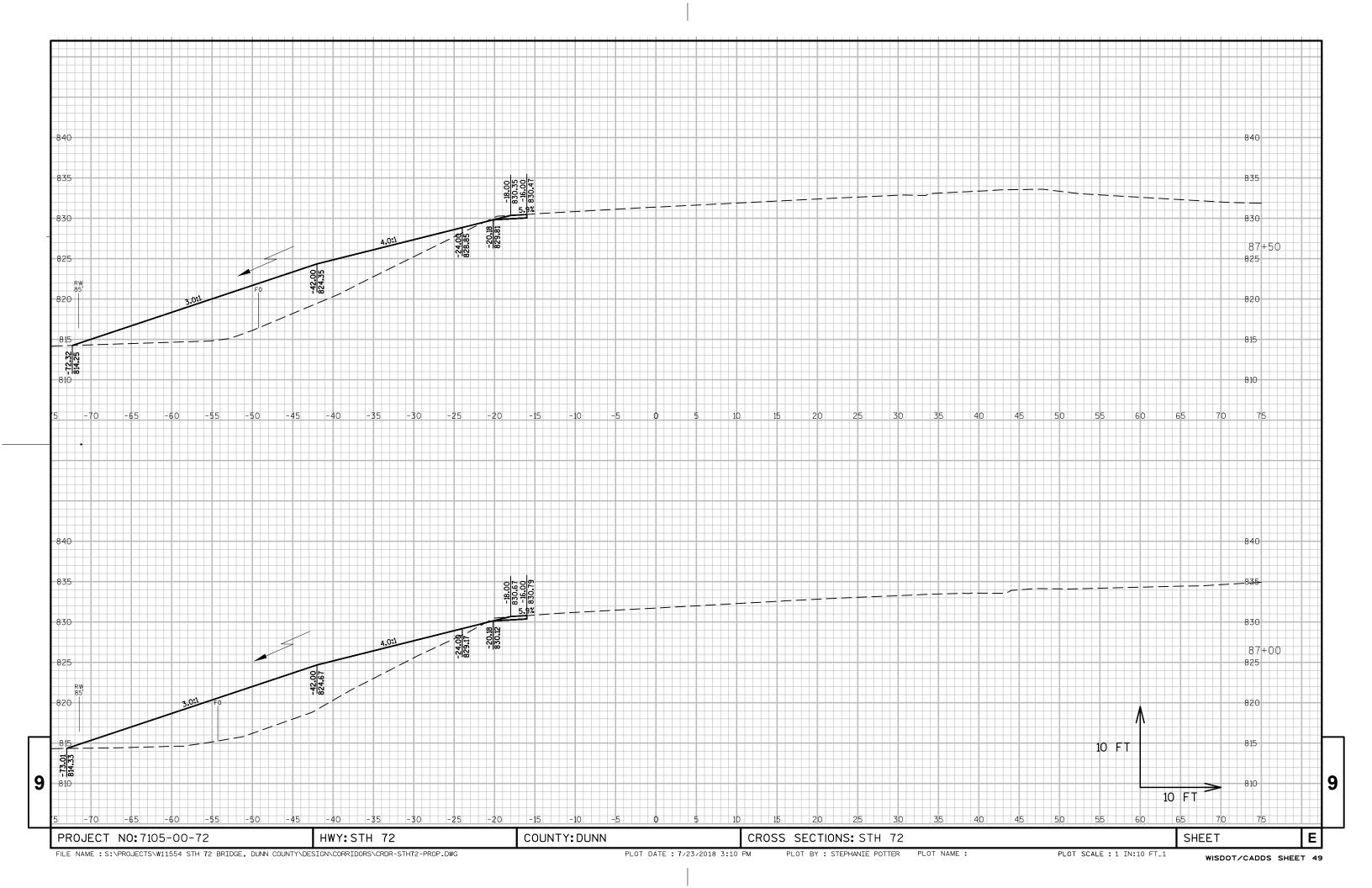
PLOT SCALE : 1" = 1'

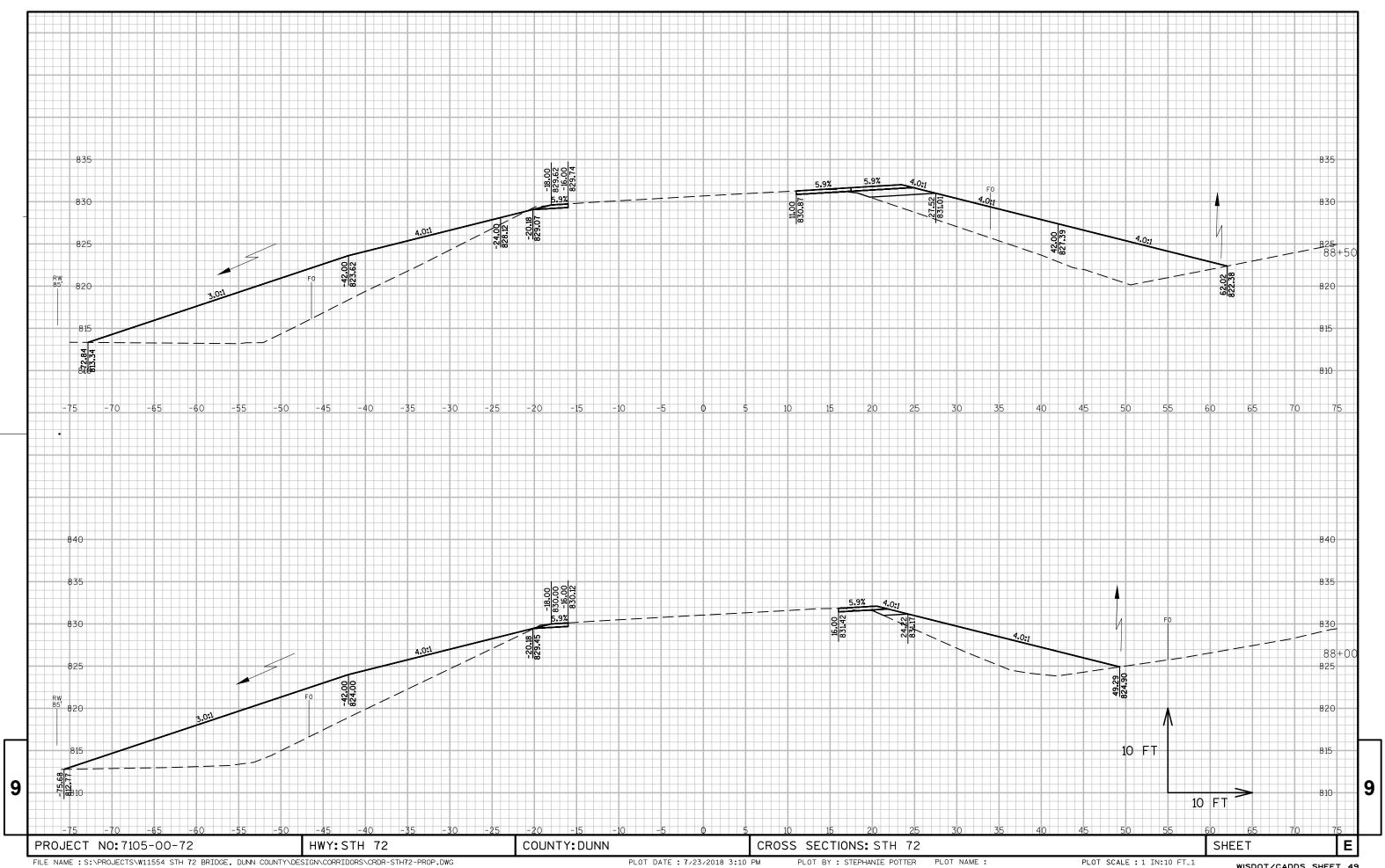
9

Ε

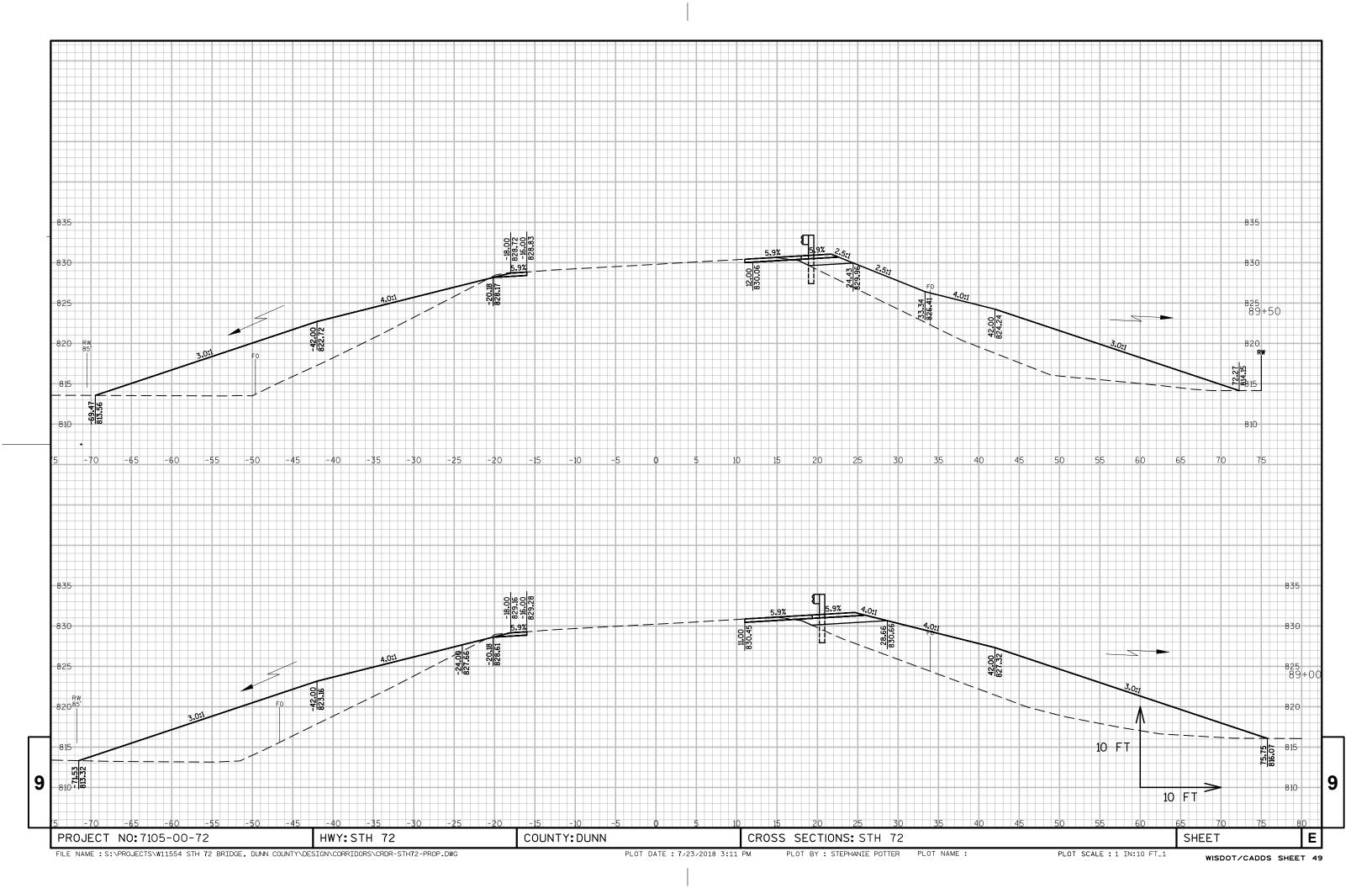


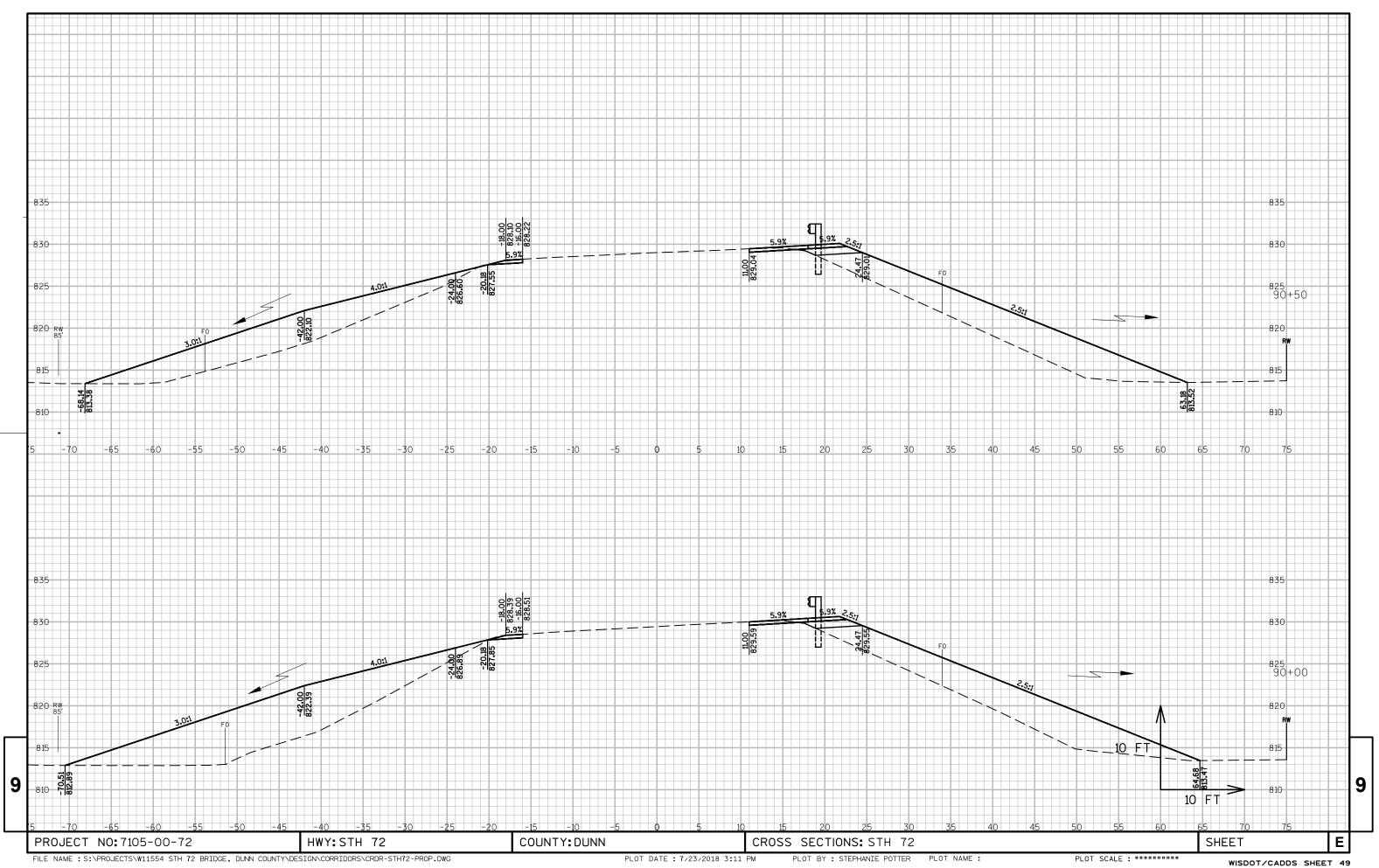


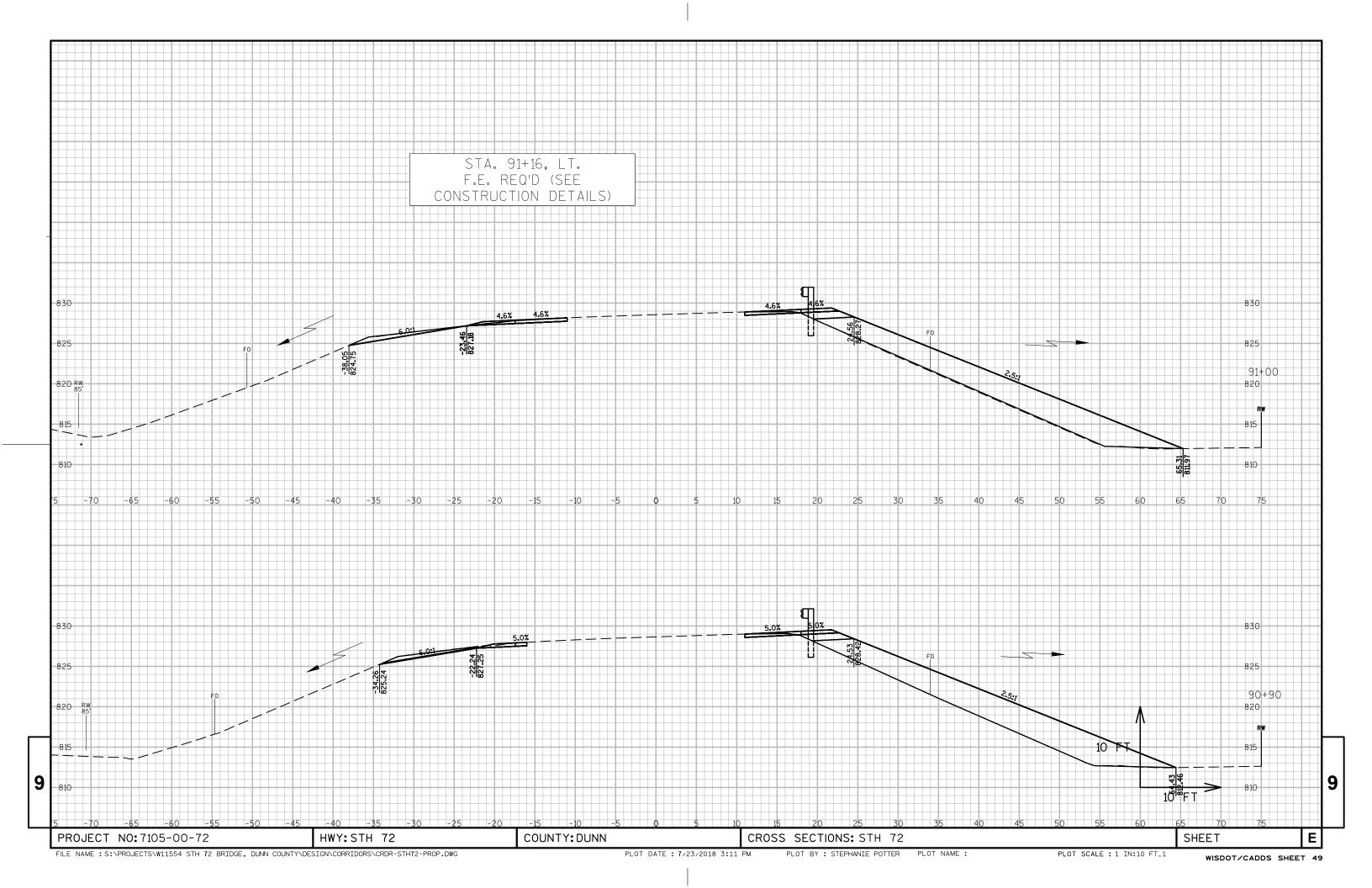


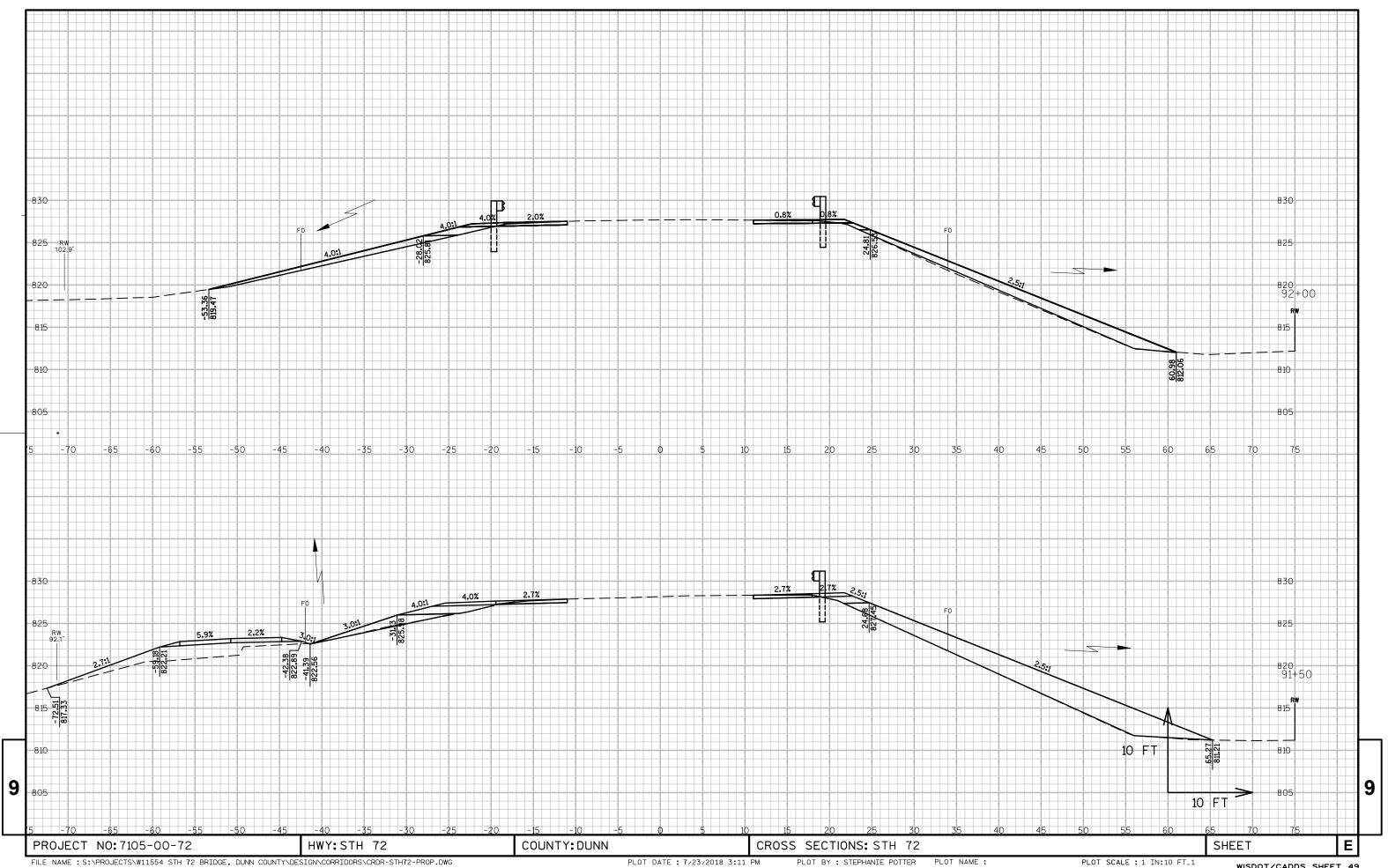


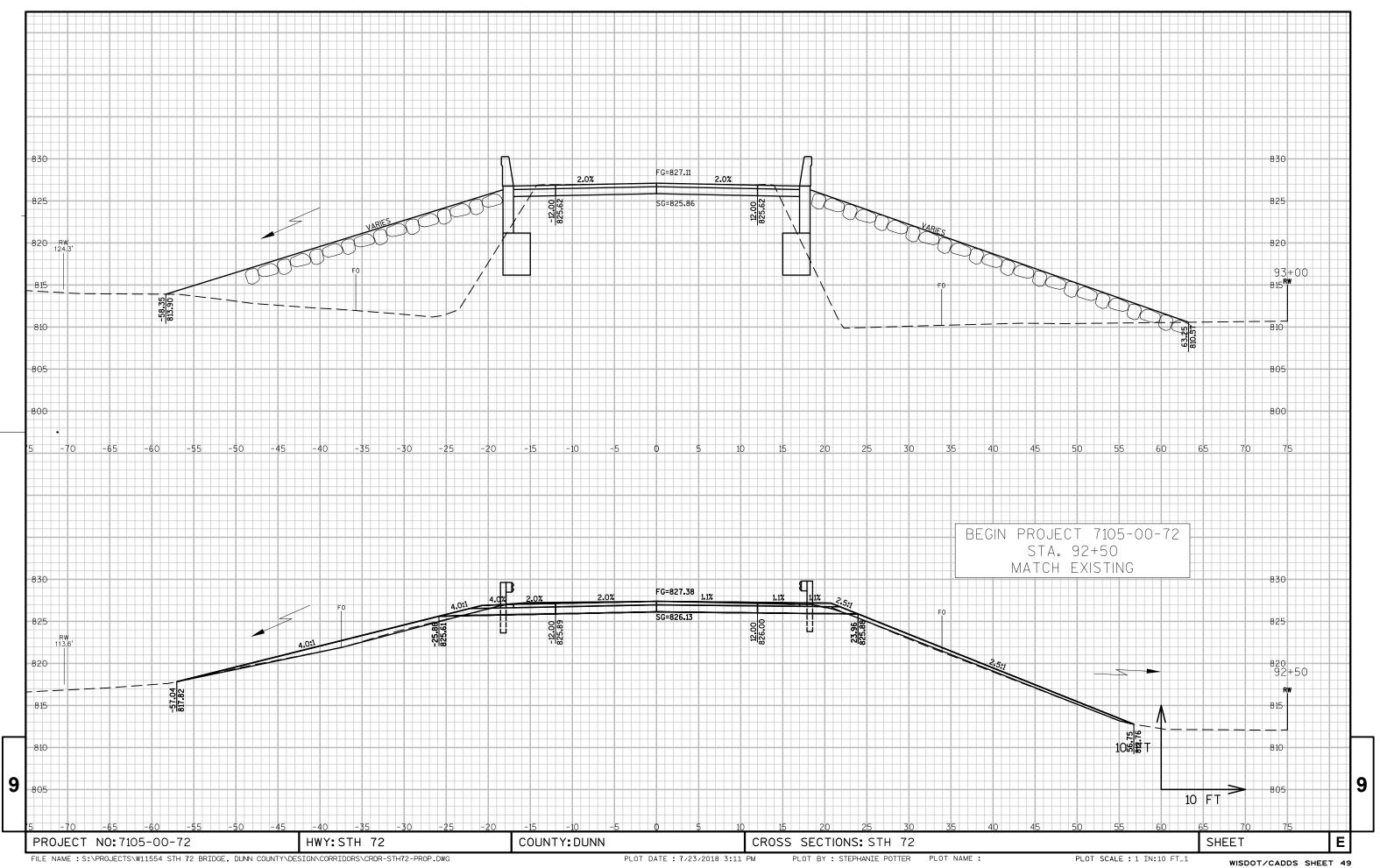
WISDOT/CADDS SHEET 49

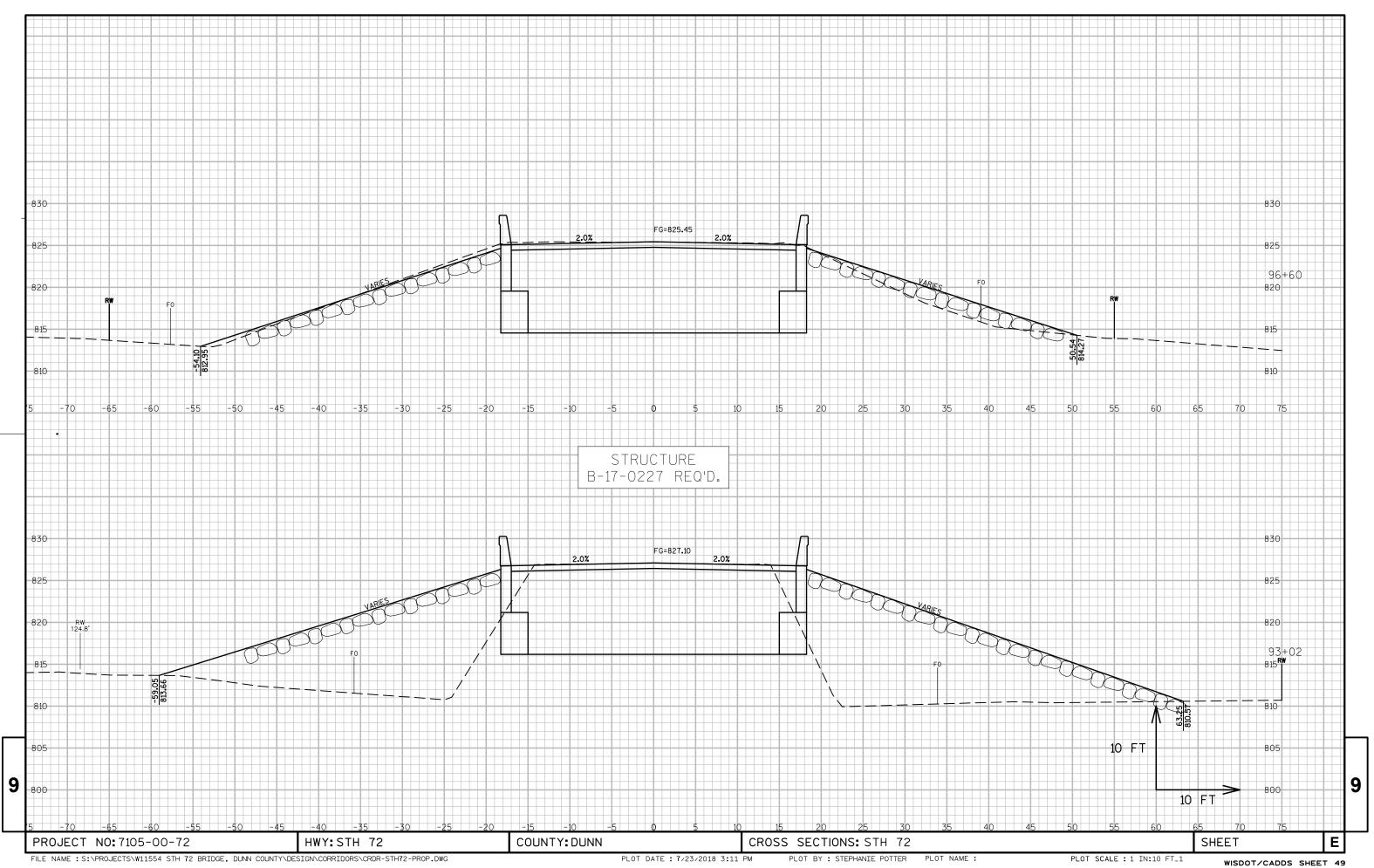


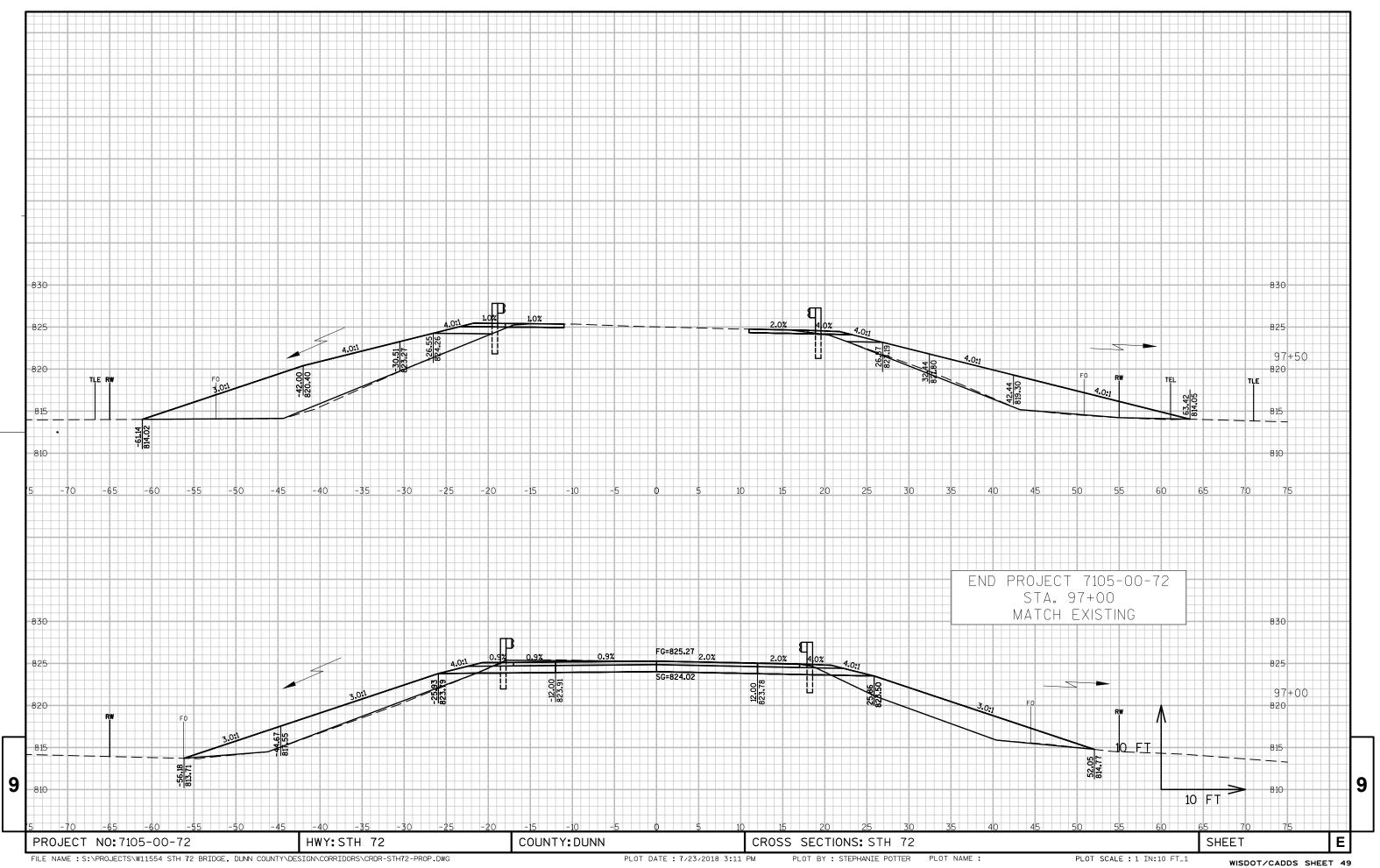


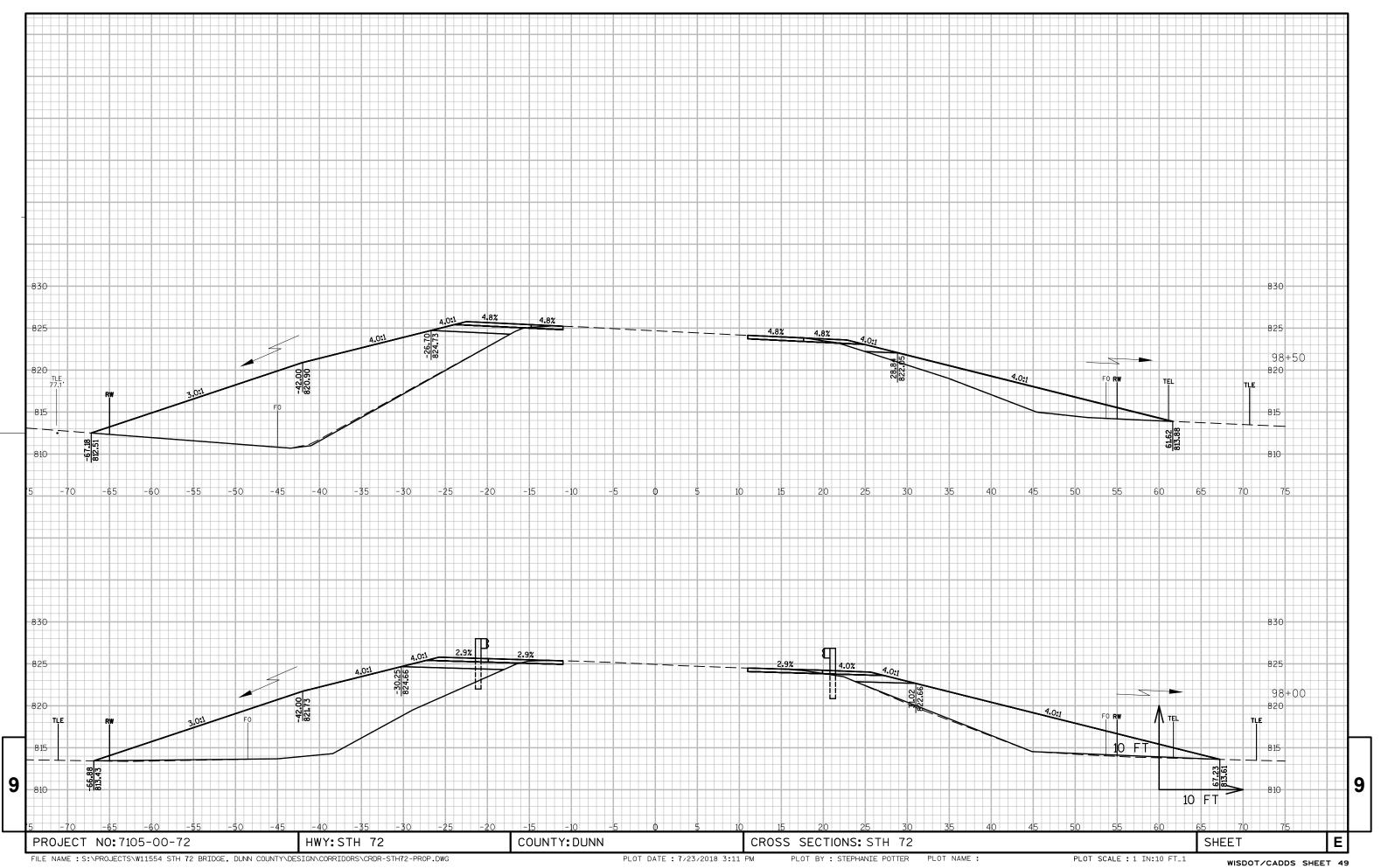


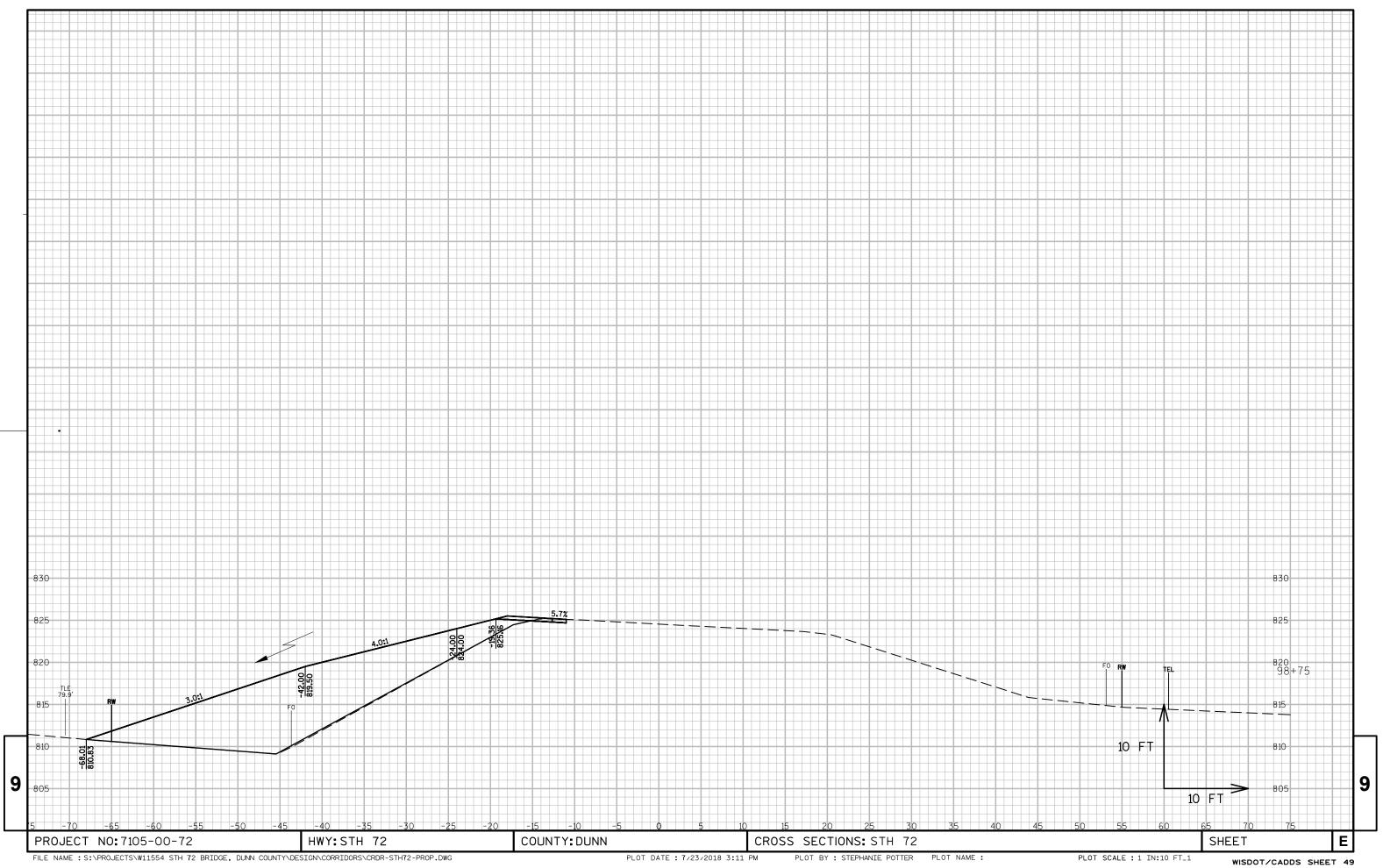


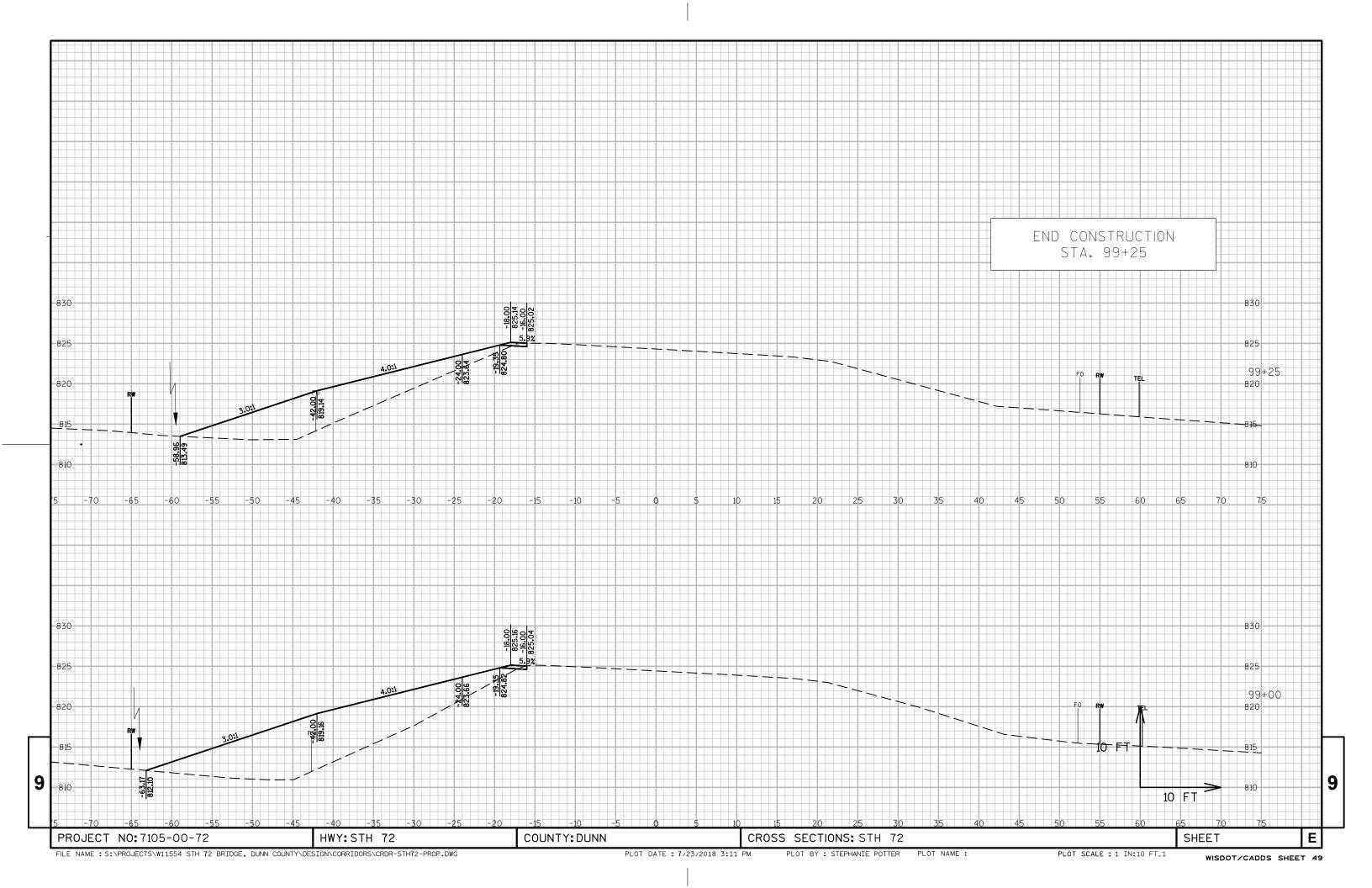


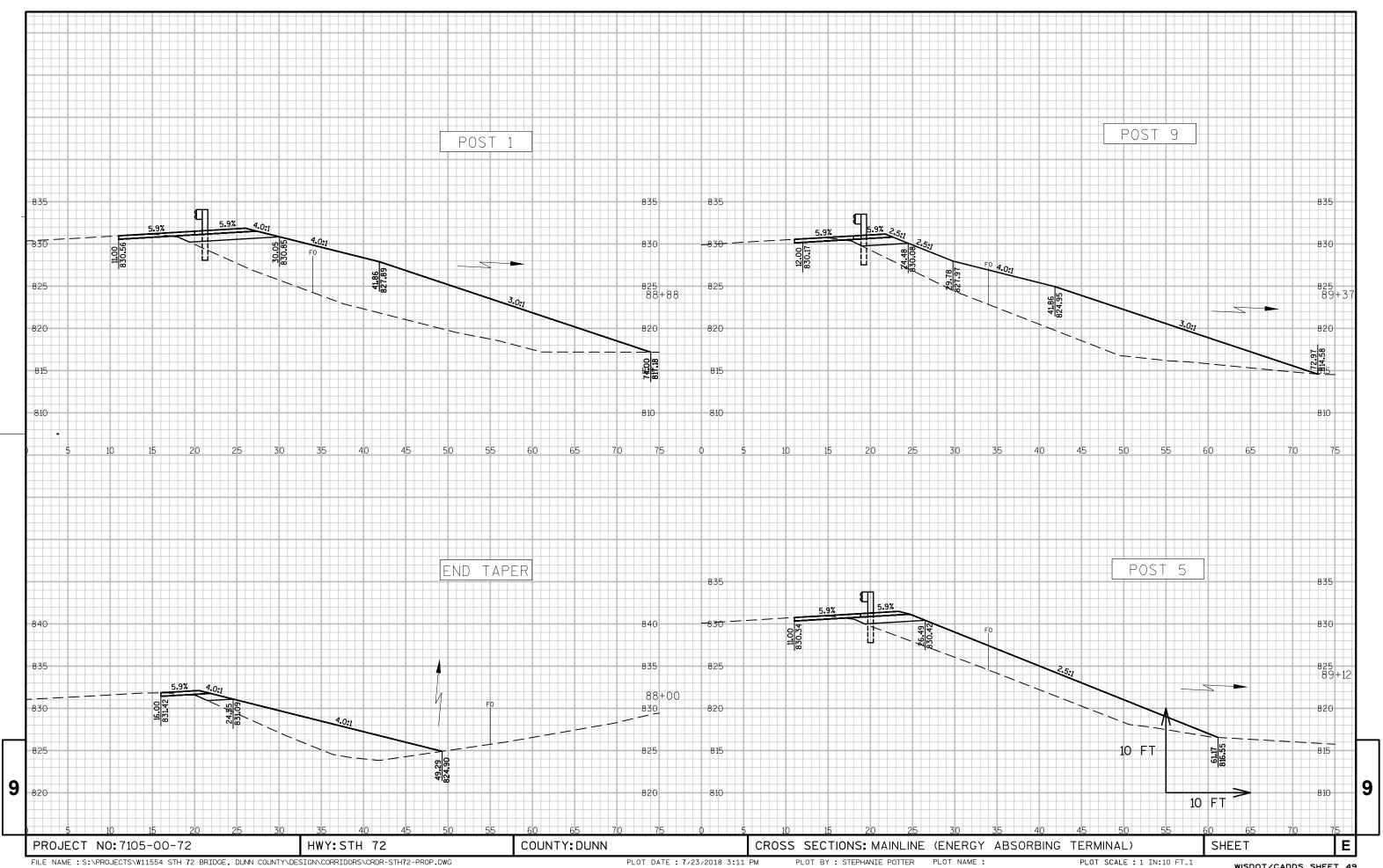




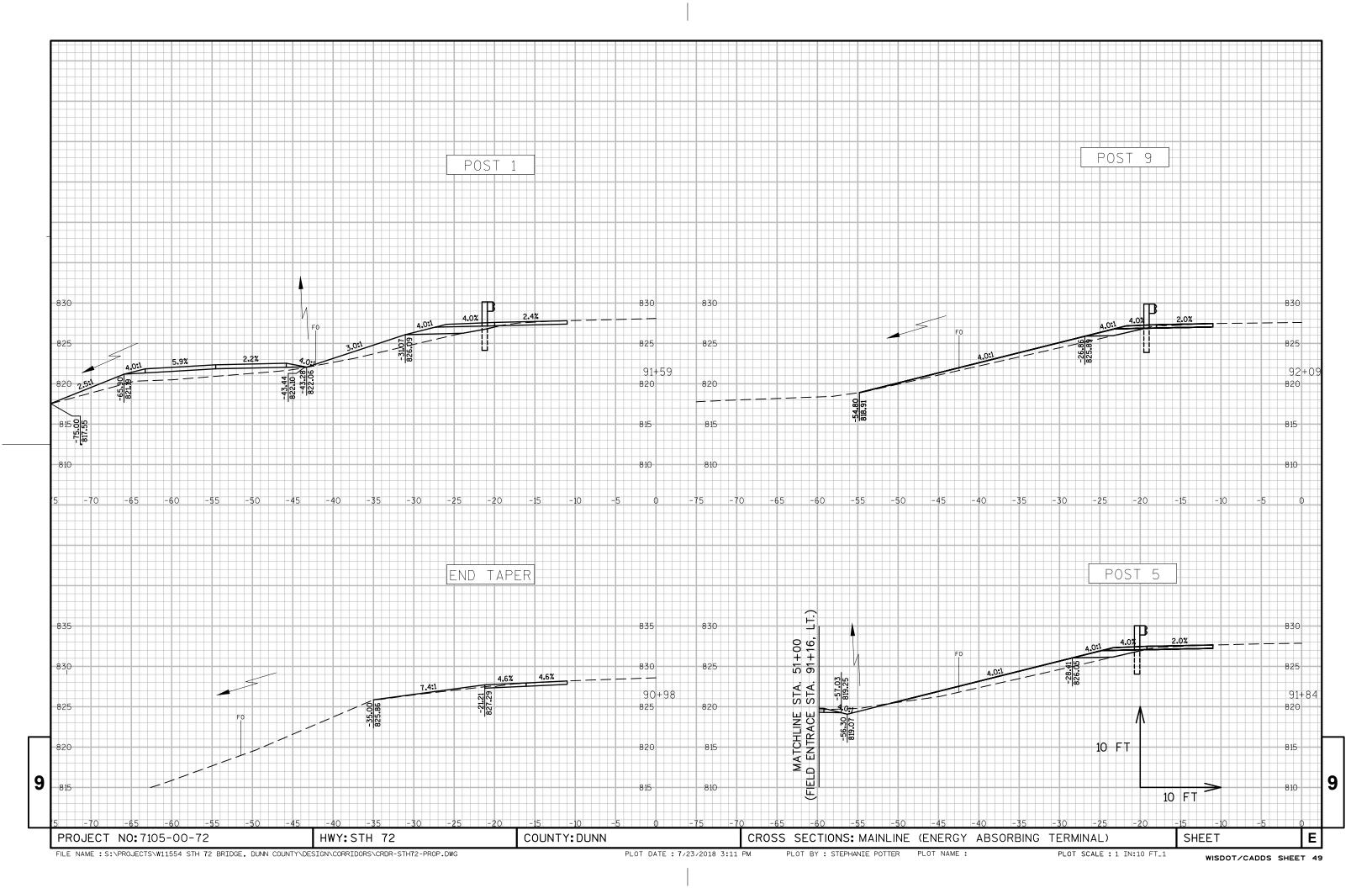


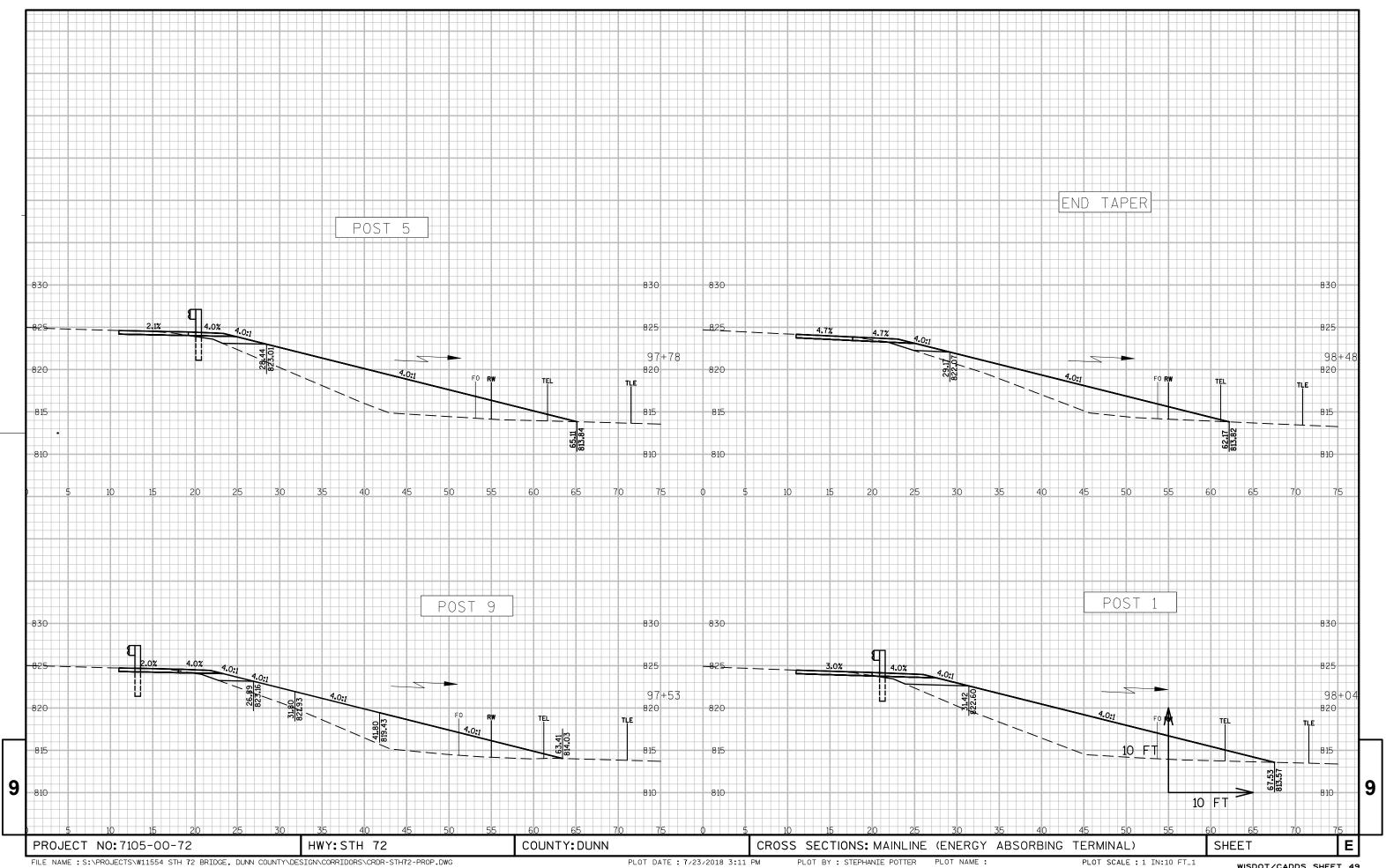


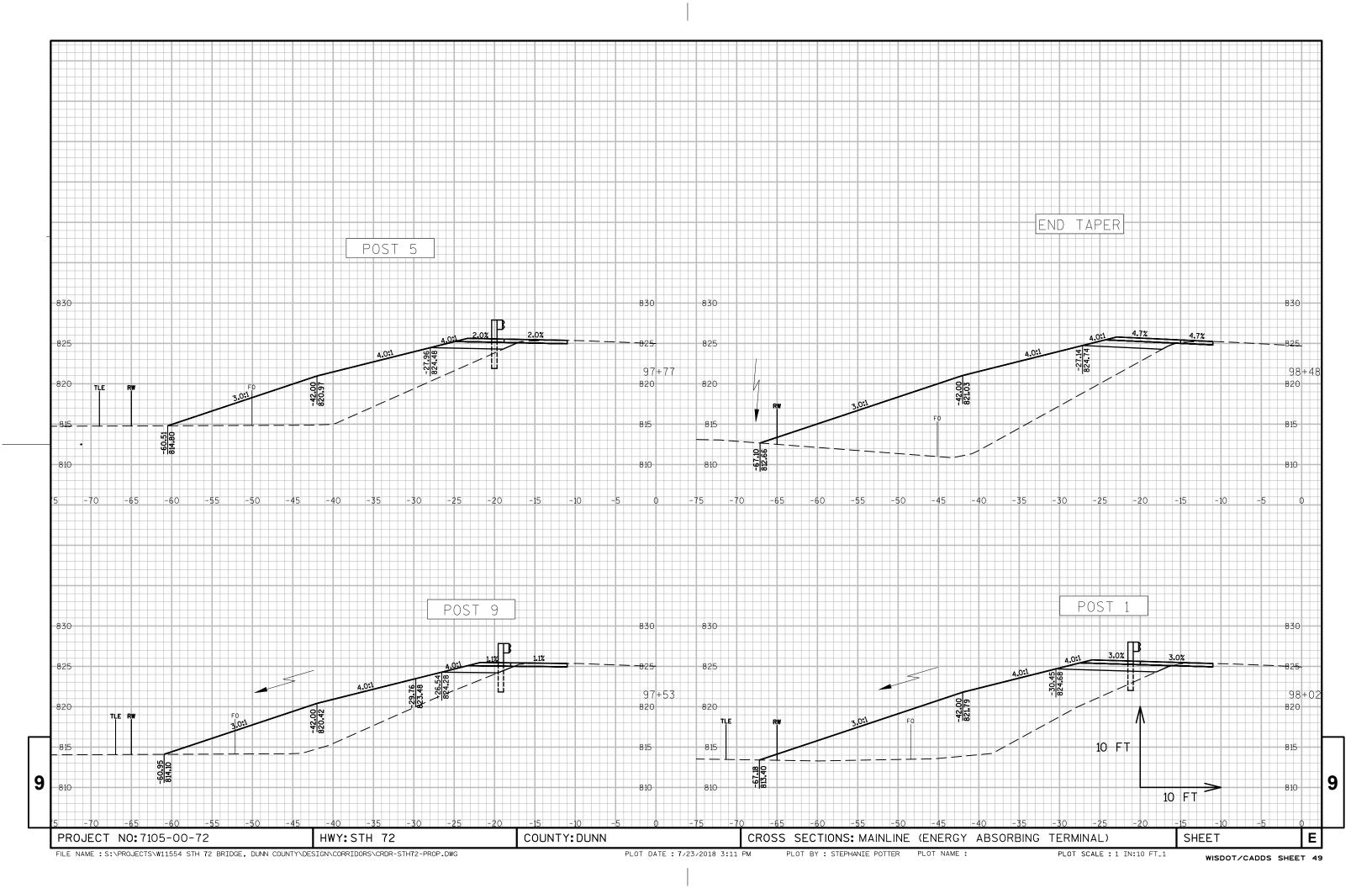


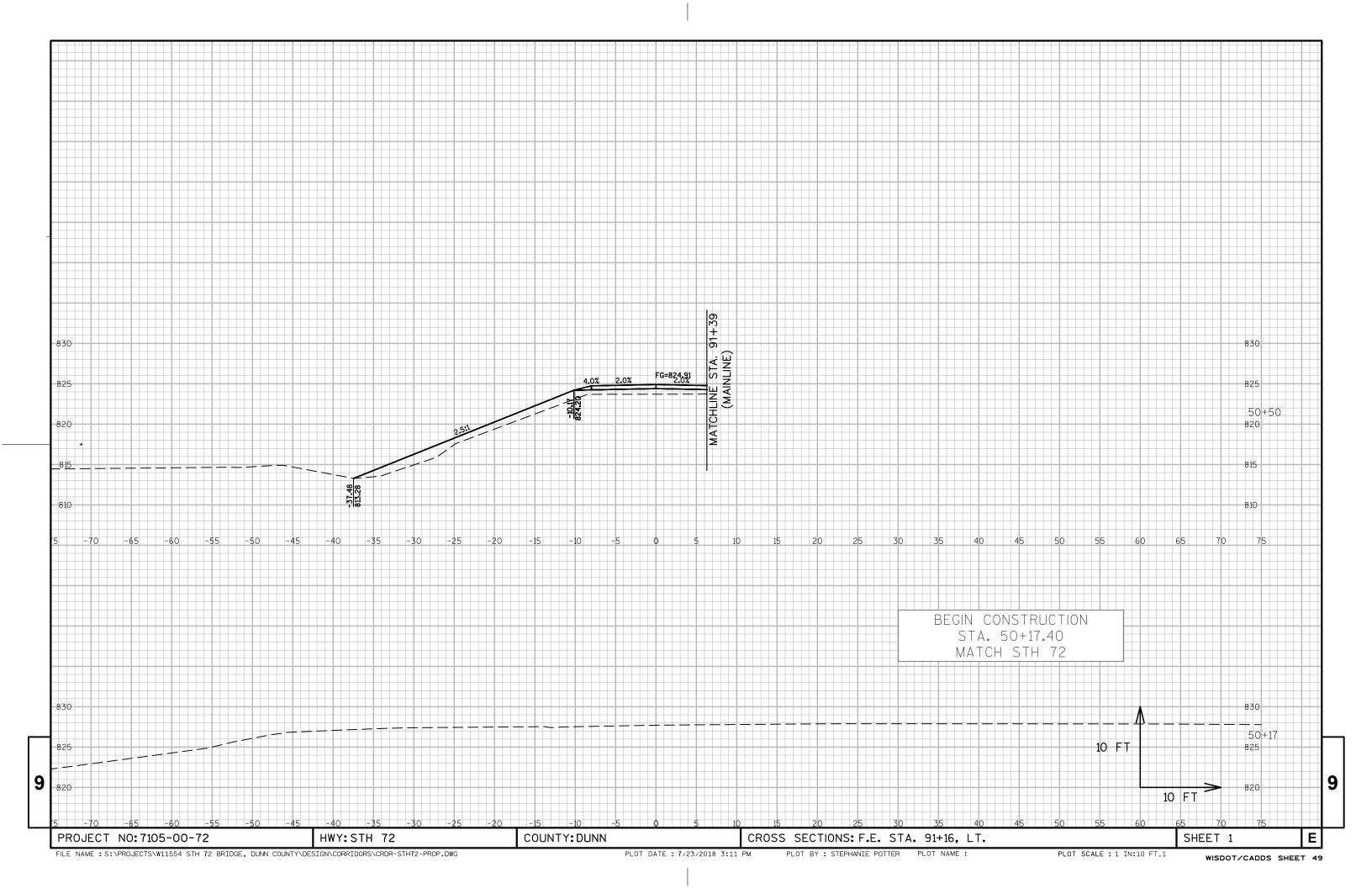


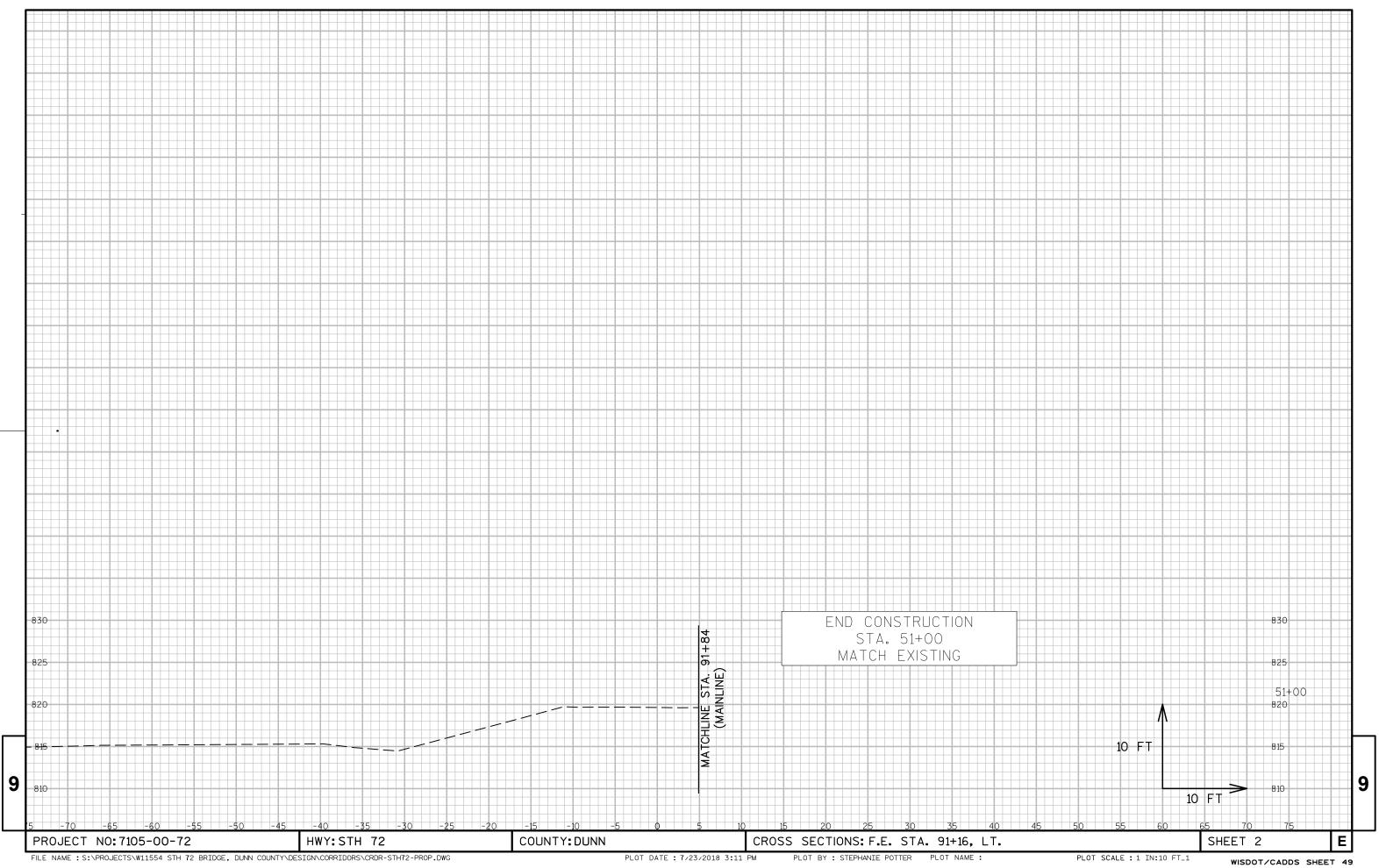
WISDOT/CADDS SHEET 49













Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov