MARCH 2025

Section No.

Section No.

Section No. Section No.

Section No. Section No.

Section No. Section No.

Section No.

Section No.

Section No.

TOTAL SHEETS = 76

ORDER OF SHEETS

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

R-12-W R-11-W

O

130TH AVE

PLAN OF PROPOSED IMPROVEMENT

T ROCK CREEK, 810TH STREET

CRANBERRY CREEK BRIDGE B-17-0239

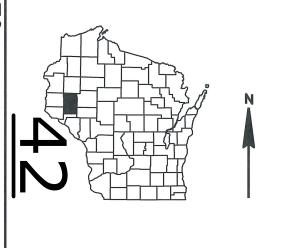
LOC STR DUNN COUNTY

STATE PROJECT NUMBER 7874-00-70

180TH AVE

ST

150TH AVE



Typical Sections and Details Estimate of Quantities

Miscellaneous Quantities

Computer Earthwork Data

Right of Way Plat

Plan and Profile Standard Detail Drawings

Structure Plans

Cross Sections

Sign Plates

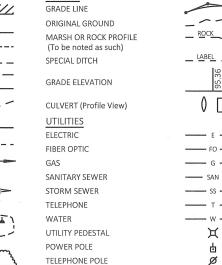
DESIGN DESIGNATION

MARSH AREA

WOODED OR SHRUB AREA

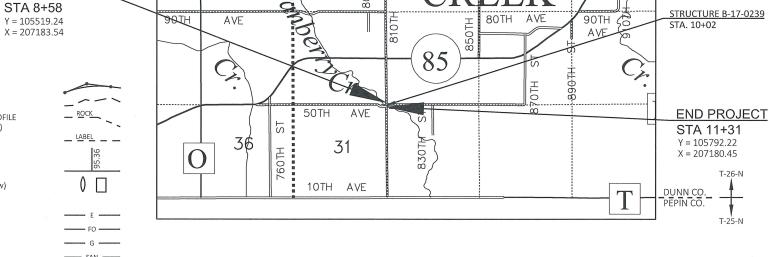
A.A.D.T. (2025) = 110A.A.D.T. (2045) = 120 D.H.V. = 10 D.D. = 50/50 DESIGN SPEED = 25 MPH ESALS = 36,500

CONVENTIONAL SYMBOLS	S
PLAN CORPORATE LIMITS	<u> </u>
PROPERTY LINE	
LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE	L
SLOPE INTERCEPT	
REFERENCE LINE	300'EB'
EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	-CAUTION-



PROFILE

BEGIN PROJECT



LAYOUT HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), DUNN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES TOTAL NET LENGTH OF CENTERLINE = 0.052 MI. ARE THE SAME AS GROUND DISTANCES.

RAM

120TH

AVE

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18.

AC	CCEPTED FOR
COUNTY	ofDUNN
10 14 2024 (Date)	(Highway Commissioner)
ORIGINAL	PLANS PREPARED BY
TO TO	ARLEN E. BEAUDETTE E-36829 EAU CANAL ENGINEERING
(Date)	(Signature)
	E OF WISCONSIN
DEPARTMEN	T OF TRANSPORTATION
PREPARED BY	
Surveyor	AYRES ASSOCIATES INC
Designer	AYRES ASSOCIATES INC
Project Manager	MATTHEW BERG, PE
Regional Examiner	NW REGION
Regional Supervisor	TOU YANG, PE

APPROVED FOR THE DEPARTMENT

E

DATE: 10/24/24

FEDERAL PROJECT

WISC 2025393

CONTRACT

STATE PROJECT

7874-00-70

SCALE

UTILITIES CONTACTS

DAIRYLAND POWER COOPERATIVE 3200 EAST AVE S LA CROSSE, WI 54602 ATTN: ROB MALY 608-787-1427 608-518-2633 (cell) rob.maly@dairylandpower.com

NELSON TELEPHONE COOPERATIVE dba Ntec P.O. BOX 228 DURAND, WI 54736 ATTN: MATT HOYT 715-672-4204 matt@ntec.net DUNN ENERGY COOPERATIVE N5725 600th ST. P.O. BOX 220 MENOMONIE, WI 54751 ATTN: MIKE ANDRASCHKO 715-323-6240 715-231-0214 (cell) mandra@dunnenergy.com

WEST WISCONSIN TELCOM COOPERATIVE 912 CRESCENT STREET MENOMONIE, WI 54751 ATTN: BRADLEY SCHMIDTKNECHT 715-231-0504 715-308-1914 (cell) brads@wwt.coop



WISCONSIN DNR LIAISON

LEAH NICOL
WEST CENTRAL REGION
1300 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54701
PHONE: 715-934-9014
EMAIL: Leah.Nicol@wisconsin.gov

DESIGN PROJECT MANAGER

MATTHEW BERG WISDOT NW REGION 718 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 PHONE: 920-366-4750 EMAIL: Matthew.Berg@dot.wi.gov

DESIGN PROJECT LEADER

ARLEN BEAUDETTE, PE
AYRES ASSOCIATES
3433 OAKWOOD HILLS PARKWAY
EAU CLAIRE, WI 54701
PHONE: 715-834-3161
EMAIL: beaudettea@AyresAssociates.com

COUNTY HIGHWAY COMMISSIONER

DUSTIN BINDER
DUNN COUNTY
3303 HIGHWAY 12 EAST
MENOMONIE, WI 54751
PHONE: 715-231-6587
EMAIL: dbinder@co.dunn.wi.us

GENERAL NOTES

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

FILL EXPANSION FACTOR IS 30%.

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

RIGHT OF WAY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SUBGRADE SHOULDER POINTS ARE TO BE SEEDED AND EROSION MAT AS DIRECTED BY THE ENGINEER. SEE EROSION CONTROL SHEET FOR EROSION MAT AREAS.

SEED MIXTURE NO. 20 AND SEEDING TEMPORARY SHALL BE USED IN THE PROJECT AND SHALL BE PLACED AS SHOWN IN THE PLANS AND/OR DIRECTED BY THE ENGINEER.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) 1988.

ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 2" UPPER LAYER AND A 2" LOWER LAYER. ASPHALTIC SURFACE SHALL BE USED 12.5 mm NOMINAL AGGREGATE SIZE.

THE PROPOSED SHOULDER WIDTH SHOWN IN THE TYPICAL SECTIONS ARE MINIMUM WIDTH. PERPETUATE EXISTING SHOULDERS THAT ARE WIDER THAN WHAT IS SHOWN IN THE TYPICAL SECTIONS.

SAWCUTS, AS SHOWN ON THE PLANS, ARE SUGGESTED LOCATIONS AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER TO BETTER SUIT FIELD CONDITIONS.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

THE DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR WITH A MONUMENT TO BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

DO NOT DRIVE OR STORE EQUIPMENT, OR STORE CONSTRUCTION MATERIALS IN ENVIRONMENTAL SENSITIVE AREAS, WETLANDS OR WATERWAYS.

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP											
		Α			В			С		D			
	SLOPE	RANGE	(PERCENT)	SLOPE RANGE (PERCENT)			SLOPE	RANGE	(PERCENT)	SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS:	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38	
NOW CROPS.	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56	
MEDIAN STRIPTURF:	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30	
WEDIAN STRIPTORF.	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40	
SIDE SLOPETURF:			.25			.27			.28			.30	
SIDE SLOPETORP.			.32			.34			.36			.38	
PAVEMENT:													
ASPHALT:						.70 -	95						
CONCRETE:						.80	95						
BRICK:						.70 -	80						
DRIVES, WALKS:	.7585												
ROOFS:						.75 -	95						
GRAVEL ROADS, SHOULDERS:						.40 -	60						

TOTAL PROJECT AREA = 1.047 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = <u>0.553</u> ACRES

PROJECT NO: 7874-00-70 HWY: 810TH STREET COUNTY: DUNN

FILE NAME: 1/42/42-1353.00 - DUNN CO 810TH ST OVER CRANBERRY CREEK\C3D\SHEETS\020101-GN.DWG

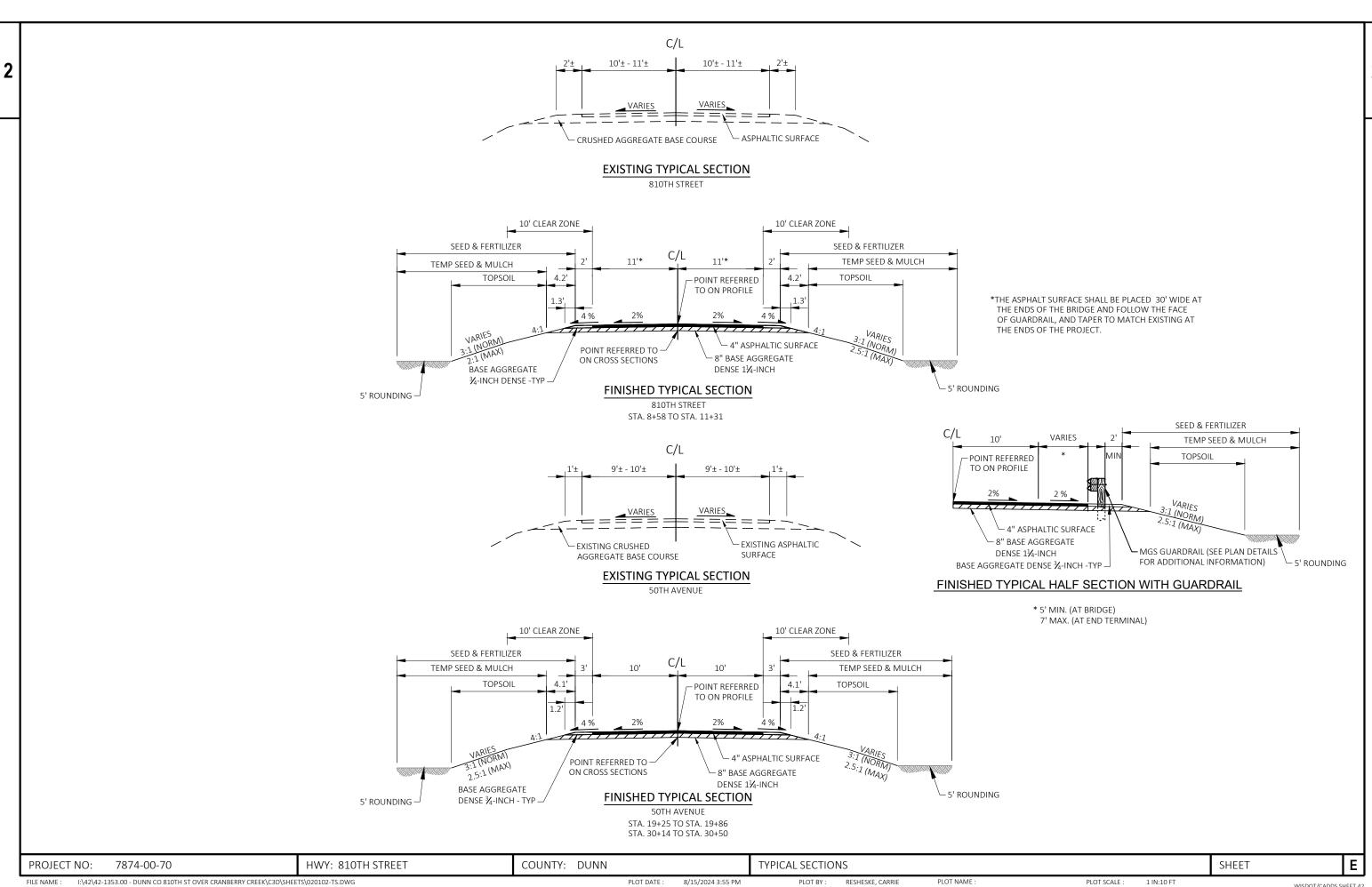
PLOT DATE: 1/7/2025 3:42 PM

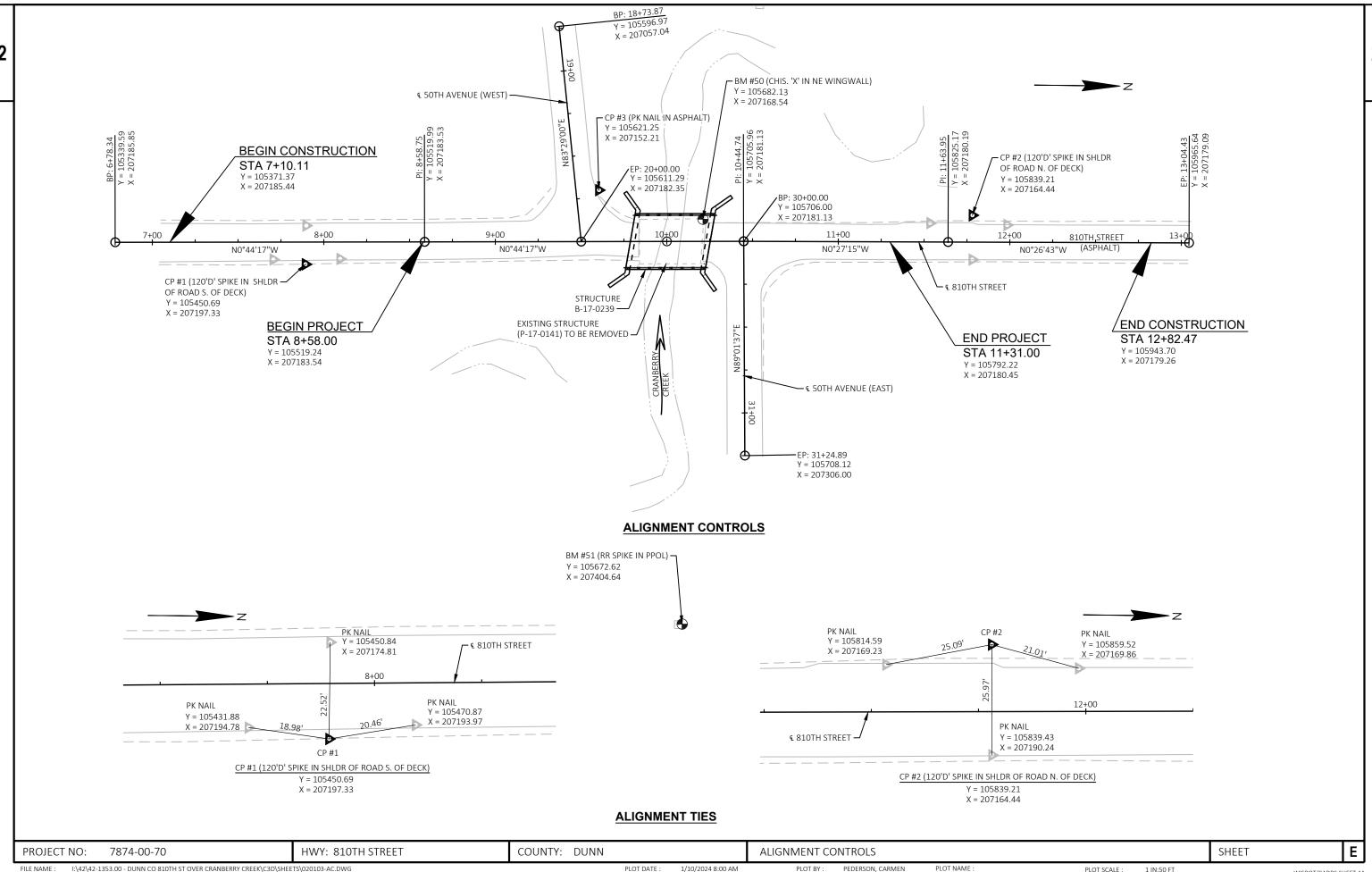
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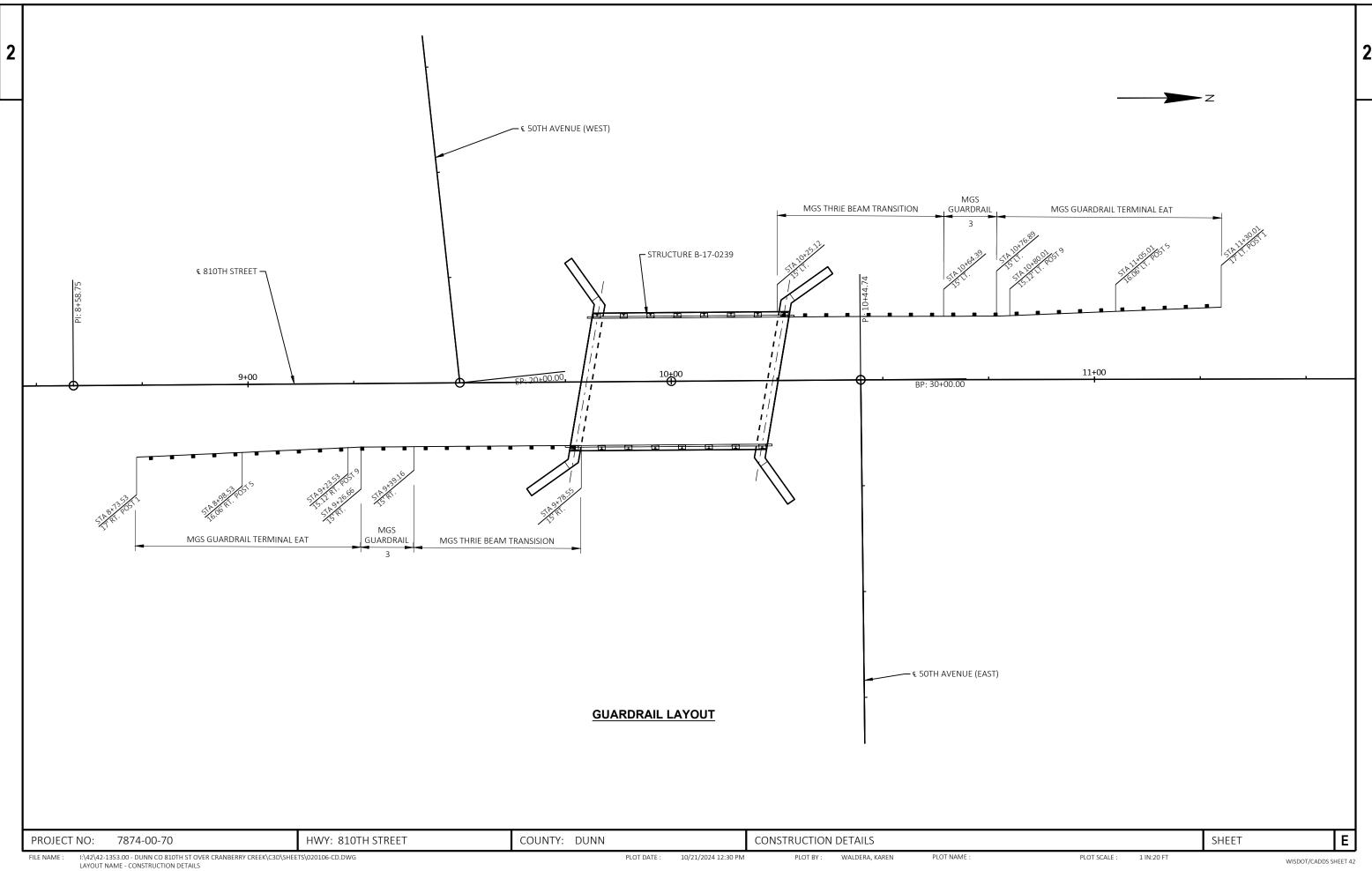
PLOT NAME: PLOT NAME: PLOT NAME: 1" = 1'

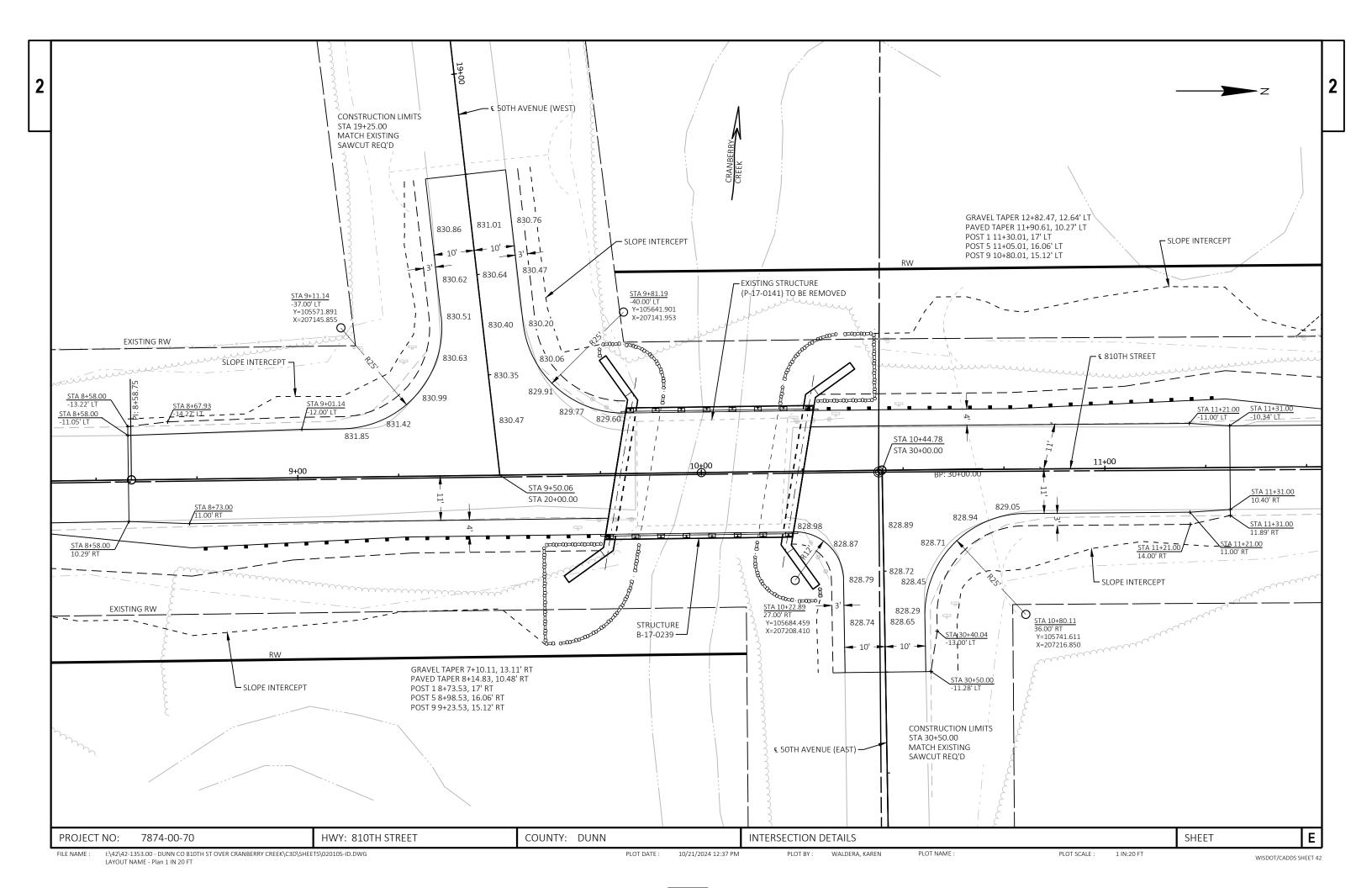
WISDOT/CADDS SHEET 42

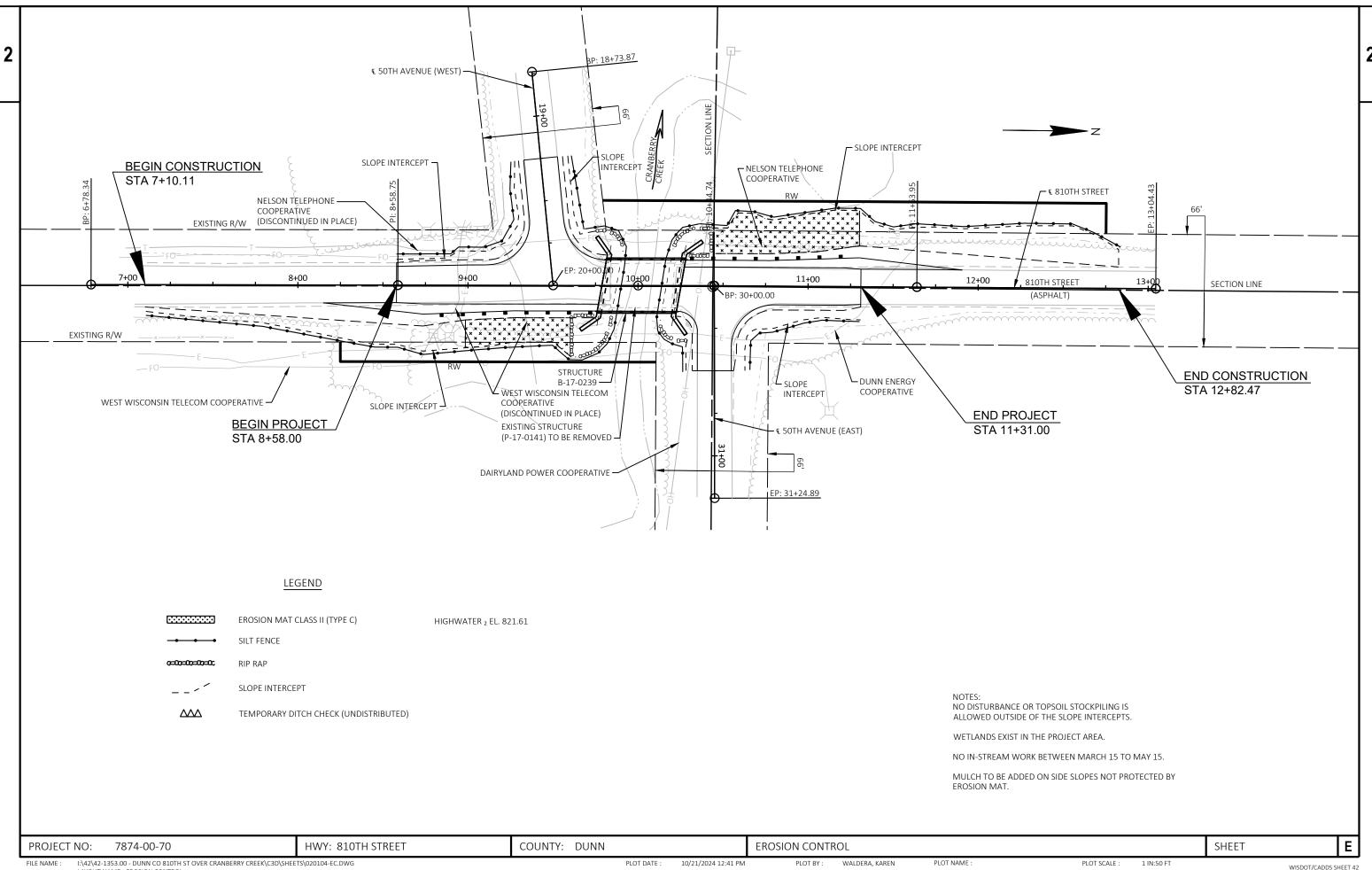
WISDOT/CADDS SHEET 42











WISDOT/CADDS SHEET 42 LAYOUT NAME - EROSION CONTROL

3 |

			_	
78	7 /	m	17	'n
10	<i>,</i> 4-	·v	J- I	U

					7874-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	6.000	6.000	
0004	201.0205	Grubbing	STA	6.000	6.000	
0006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-17-0141	EACH	1.000	1.000	
8000	204.0165	Removing Guardrail	LF	57.000	57.000	
0010	205.0100	Excavation Common	CY	345.000	345.000	
0012	206.1001	Excavation for Structures Bridges (structure) 01. B-17-0239	EACH	1.000	1.000	
0014	208.0100	Borrow	CY	371.000	371.000	
0016	210.1500	Backfill Structure Type A	TON	648.000	648.000	
0018	213.0100	Finishing Roadway (project) 01. 7874-00-70	EACH	1.000	1.000	
0020	305.0110	Base Aggregate Dense 3/4-Inch	TON	125.000	125.000	
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	735.000	735.000	
0024	455.0605	Tack Coat	GAL	72.000	72.000	
0026	465.0105	Asphaltic Surface	TON	235.000	235.000	
0028	502.0100	Concrete Masonry Bridges	CY	202.000	202.000	
0030	502.3200	Protective Surface Treatment	SY	244.000	244.000	
0032	505.0400	Bar Steel Reinforcement HS Structures	LB	5,180.000	5,180.000	
0034	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	27,210.000	27,210.000	
0036	513.4061	Railing Tubular Type M	LF	98.000	98.000	
0038	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000	
0040	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	1,120.000	1,120.000	
0042	606.0300	Riprap Heavy	CY	180.000	180.000	
0044	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	162.000	162.000	
0046	614.2300	MGS Guardrail 3	LF	25.000	25.000	
0048	614.2500	MGS Thrie Beam Transition	LF	80.000	80.000	
0050	614.2610	MGS Guardrail Terminal EAT	EACH	2.000	2.000	
0052	618.0100	Maintenance and Repair of Haul Roads (project) 01. 7874-00-70	EACH	1.000	1.000	
0054	619.1000	Mobilization	EACH	1.000	1.000	
0056	624.0100	Water	MGAL	32.000	32.000	
0058	625.0100	Topsoil	SY	740.000	740.000	
0060	627.0200	Mulching	SY	865.000	865.000	
0062	628.1504	Silt Fence	LF	1,245.000	1,245.000	
0064	628.1520	Silt Fence Maintenance	LF	2,490.000	2,490.000	
0066	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000	
0068	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000	
0000	628.2027	Erosion Mat Class II Type C	SY	395.000	395.000	
0070	628.7504	Temporary Ditch Checks	LF	100.000	100.000	
0072	629.0210	Fertilizer Type B	CWT	1.100	1.100	
0074	630.0120	Seeding Mixture No. 20	LB	79.000	79.000	
0078	630.0120	Seeding Temporary		34.000	34.000	
0078	630.0200	Seed Water	LB MGAL	40.000	40.000	
		Posts Wood 4x6-Inch X 14-FT	EACH	8.000	8.000	
0082 0084	634.0614 637.2210	Signs Type II Reflective H		10.360	10.360	
	637.2210	• • • • • • • • • • • • • • • • • • • •	SF SF	28.000	28.000	
0086		Signs Type II Reflective F				
8800	638.2602	Removing Signs Type II	EACH	8.000	8.000	
0090	638.3000	Removing Small Sign Supports	EACH	8.000	8.000	
0092	642.5001	Field Office Type B	EACH	1.000	1.000	
0094	643.0420	Traffic Control Barricades Type III	DAY	3,640.000	3,640.000	
0096	643.0705	Traffic Control Warning Lights Type A	DAY	4,850.000	4,850.000	
0098	643.0900	Traffic Control Signs	DAY	2,630.000	2,630.000	

01/21/2025 09:02:33

Page 2 **Estimate Of Quantities**

Line	Item	Item Description	Unit	Total	Qty
0100	643.5000	Traffic Control	EACH	1.000	1.000
0102	645.0111	Geotextile Type DF Schedule A	SY	114.000	114.000
0104	645.0120	Geotextile Type HR	SY	360.000	360.000
0106	650.4500	Construction Staking Subgrade	LF	669.000	669.000
0108	650.5000	Construction Staking Base	LF	669.000	669.000
0110	650.6501	Construction Staking Structure Layout (structure) 01. B-17-0239	EACH	1.000	1.000
0112	650.9911	Construction Staking Supplemental Control (project) 01. 7874-00-70	EACH	1.000	1.000
0114	650.9920	Construction Staking Slope Stakes	LF	669.000	669.000
0116	690.0150	Sawing Asphalt	LF	185.000	185.000
0118	715.0502	Incentive Strength Concrete Structures	DOL	1,212.000	1,212.000
0120	999.2005.S	Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000
0122	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0124	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000



SHEET

2
J
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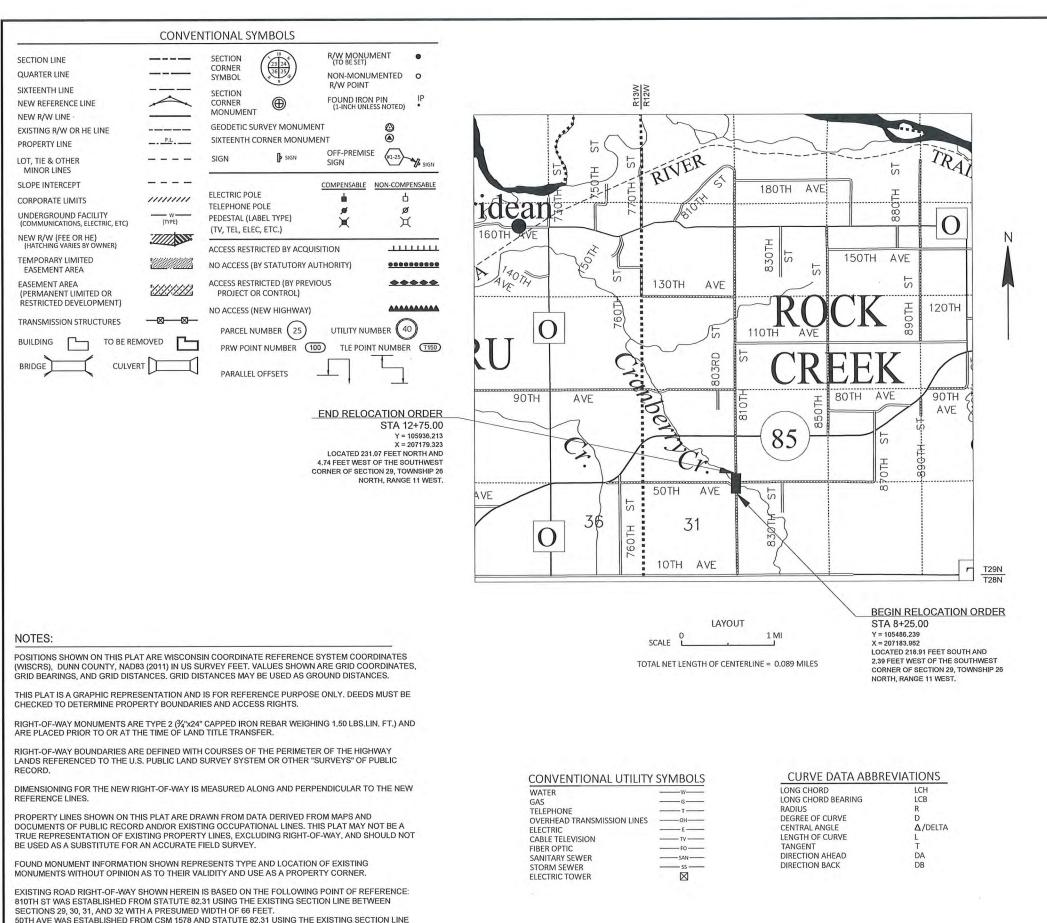
PROJECT NO: 7874-00-70

		CLEA	RING & G	RUBBIN	<u>G</u>									8	10TH STREET EAR	THWORK SUMMAR	Y				_
STATION 7+00	TO _	STATION 13+00	LOCAT 810 ⁻	ΓΙΟΝ	201.0105 CLEARING STA 6	201.0205 GRUBBING STA				Fı	rom/To Station	Location	Cor 205	avation mmon (1) 5.0100 Cut	Salvaged / Unuseable Pavement Material (5)	Unexpando Fill	Fac	ded Fill 2) :tor	ass Ordinate +/- (3)	Borrow	
			TOTAL							<u> </u>		04.0711.67		457	4.4	100	1	30	4.46	208.0100	_
			TOTAL	0010	6	6					7+10.11 - 9+78.73)+25.27 - 12+82.47	810TH ST ' 810TH ST		157 189	44 52	199 278	1	59 62	-146 -225	146 225	+
NOTE: TREES I	HAVE B	EEN CUT BY	OTHERS.							10	7123.27 12102.47	TOTAL	•	345	32	477		20	223	371	⊒
	RE	MOVING	GUARDRA	AIL			FINISH	HING ROADWAY				n is the Cut. Item nur r = 1.30; Expanded Fi			k Fill Footor						
					204.0165 REMOVING			213.0100.01		3) T 4) A	he Mass Ordinate + All quantities shown	or - Qty calculated fo				an excess of materia	l on the projec	ct.			
STATION T	0 9	STATION	LOCATIC	G	GUARDRAIL LF			FINISHING ROADWAY (PROJECT) (01. 7874-00-70)		3/3	awagea, amaseasie	pavement material			MGS GL	JARDRAIL					
9+69	-	9+82	LT		15	_	LOCATION	EACH	-							614.2300	614.2500 MGS THRIE	614.2	610		
10+22	-	9+84 10+36	RT LT		13 14		PROJECT LIMITS	1	<u>-</u>						M	GS GUARDRAIL 3	BEAM TRANSITION	MGS GUA TERMIN			
10+25	-	10+32	RT		15	_	TOTAL 0010	1				STATION	TO STA	TATION	LOCATION	LF	LF	EAC	<u>H</u>		
			TOTAL 00	010	57							8+73.53 10+25.12		+78.55 .+30.01	RT LT	12.5 12.5	40 40	1 1			
			BASE	AGGREG	ATE DENS	<u>E</u>								Т	OTAL 0010	25	80				
									IIAM	NTENAN	ICE AND REPAIR	OF HAUL ROADS									
						305.0110 BASE	305.0120 BASE AGGREGATE					618.0100.01			M	<u>OBILIZATION</u>				WATER	
STATION	TO	STATIC	DΝ	LOCATION	DEI	AGGREGATE NSE 3/4-INCH TON	DENSE 1 1/4- INCH TON					MAINTENANCE AND RE DF HAUL ROADS (PRO. (01. 7874-00-70)	JECT)		DDQ/FCT	619.10 MOBILIZ	ATION		LOCA	V	4.0100 VATER MGAL
									CATEGORY	L	OCATION	EACH			PROJECT	EACI	1		COMP	ACTION	13
7+10 10+25	-	9+79 12+82		810TH 810TH		50 50	290 265		0020	DDG		1			7874-00-7	70 1				ONTROL	19
19+25	-			50TH AVI		15	110		0030	PKC	DJECT LIMITS	1			TOTAL OO						
30+14	-	30+50		50TH AVI		10	70			то	TAL 0030	1			TOTAL 00	10 1			TOTAI	. 0010	32
			т	OTAL 00	10	125	735														
			AS	SPHALTIC	C SURFACE	į						EROSION CONTI	ROL						MOBILIZAT	IONS EROSION (CONTROL
					4	55.0605	465.0105 ASPHALTIC					628.1504		28.1520	628.2027	628.7504				628.1905	628.1910 MOBILIZATIO
						ACK COAT	SURFACE					CHITEENCE		LT FENCE	EROSION MAT					MOBILIZATIONS	EMERGENC
ST/	ATION	TO S	STATION	LOCATI	ION	GAL	TON	STATION	TO STA	TION	LOCATION	SILT FENCE LF		NTENANCE LF	CLASS II TYPE (C DITCH CHEC LF	()			EROSION	EROSION
8	8+15	-	9+79	810T	ГН	28	90					- -						10	CATION	CONTROL EACH	CONTROL EACH
1	0+25	-	11+91	810T	ГН	25	80	7+10	- 9+		LT\RT	535		1,070	110				CATION	LACII	LACT
	9+25 0+14		19+86 30+50	50TH A		12 7	40 25	10+10	- 12-	+82	LT\RT UNDISTRIBUTED	460 250		920 500	205 80	100		PROJE	ECT LIMITS	4	4
				TOTAL (72	235				TOTAL 0010	1,245	2,	2,490	395	100		тот	AL 0010	4	4
																				ALL ITEMS O ARE CATEGOR UNLESS OTHE	Y 0010

MISCELLANEOUS QUANTITIES

HWY: 810TH STREET

COUNTY: DUNN



R/W PROJECT NUMBER SHEET NUMBER SHEETS 7874-00-00 CONSTRUCTION PROJECT NUMBER 2 4.01 7874-00-70

> PLAT OF RIGHT OF WAY REQUIRED FOR T ROCK CREEK, 810TH STREET

CRANBERRY CREEK BRIDGE B-17-0239

DUNN COUNTY LOC STR

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	HIGHWAY EASEMENT	HE	REEL / IMAGE	R/I
ACRES	AC	IDENTIFICATION	ID	REFERENCE LINE	R/L
AHEAD	AH	LAND CONTRACT LC		REMAINING	REM
ALUMINUM	ALUM	LEFT	LT	RESTRICTIVE DEVELOPM	ENT RDE
AND OTHERS	ET AL	MONUMENT	MON	EASEMENT	
BACK	BK	NATIONAL GEODETIC SU	JRVEY NGS	RIGHT	RT
BLOCK	BLK	NUMBER	NO	RIGHT OF WAY	R/W
CENTERLINE	C/L	OUTLOT	OL	SECTION	SEC
CERTIFIED SURVEY MAP	CSM	PAGE	P	SEPTIC VENT	SEPV
CONCRETE	CONC	POINT OF TANGENCY	PT	SQUARE FEET	SF
COUNTY	CO	PERMANENT LIMITED	PLE	STATE TRUNK HIGHWAY	STH
COUNTY TRUNK HIGHW	'AY CTH	H EASEMENT		STATION	TA
DISTANCE	DIST	POINT OF BEGINNING	POB	TELEPHONE PEDESTAL	TP
CORNER	COR	POINT OF CURVATURE	PC	TEMPORARY LIMITED	TLE
DOCUMENT NUMBER	DOC	POINT OF COMPOUND	CURVE PCC	EASEMENT	
EASEMENT	EASE	POINT OF INTERSECTION	N PI	TRANSPORTATION PROJ	ECT PLAT
EXISTING	EX	PROPERTY LINE	PL		TPP
GAS VALVE	GV	RECORDED AS	(100')	UNITED STATES HIGHWA	AY USH
GRID NORTH	GN			VOLUME	٧



D6 17 2024





THE SURVEY IS PREPARED AT THE REQUEST OF DUNN

THE FIELD SURVEY WAS PERFORMED IN FEBRUARY 2023.

THIS SURVEY IS ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.



REVISION DATE

02/16/2024 DATE CHRISTOPHER R. BADTKE, P.L.S.

PLOT NAME :

BETWEEN SECTIONS 29 AND 32 WITH A PRESUMED WIDTH OF 66 FEET.

	SCHEDULE OF LANDS AND INTERESTS REQUIRED												
PARCEL		INTEREST		R/W (ACRES)									
NO.	OWNER(S)	REQUIRED	NEW	EXISTING	TOTAL								
1	STEVEN AND KATHRYN DAHL REVOCABLE LIVING TRUST	FEE	0.049	0.172	0.221								
2	RONALD J. BAUER AND ANGIE D. BAUER	FEE	0.026	0.179	0.205								
3	PETER DAVID ADLER	FEE	0.094	0.175	0.269								
50	WEST WISCONSIN TELCOM COOPERATIVE		RELEASE (OF RIGHTS									
51	NELSON TELEPHONE COOPERATIVE	RELEASE OF RIGHTS											
52	DUNN ENERGY COOPERATIVE	RELEASE OF RIGHTS											
53	DAIRYLAND POWER COOPERATIVE		RELEASE (OF RIGHTS									

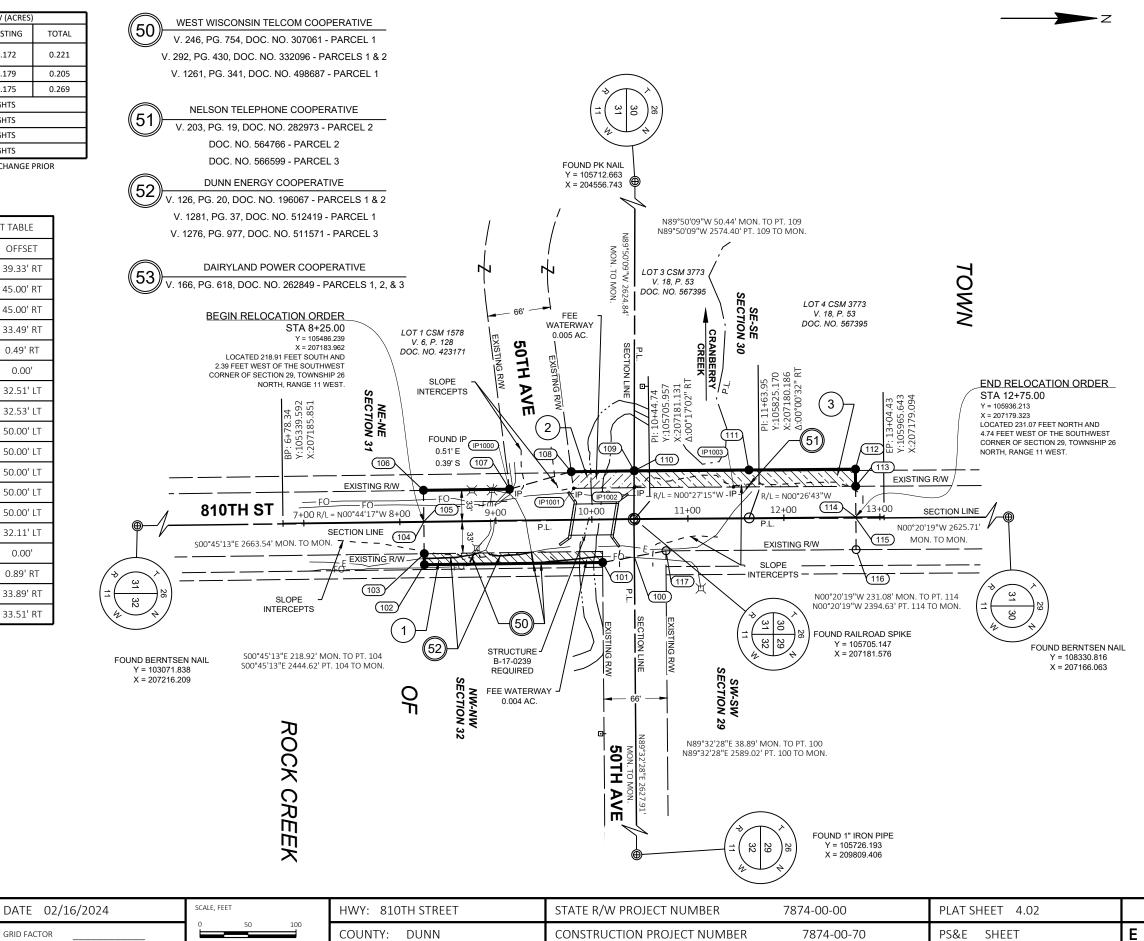
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE COUNTY.

F	R/W COURSE TABLE										
COURSE	BEARING	DISTANCE									
100-101	S10°28'33"E	33.55'									
101-102	S00°44'17"E	185.67'									
102-103	S89°15'43"W	11.51'									
103-104	S89°15'43"W	33.00'									
104-105	S89°15'43"W	0.49'									
105-106	S89°15'43"W	32.51'									
106-107	N00°45'13"W	89.71'									
107-108	N15°54'22"W	66.77'									
108-109	N00°44'17"W	65.57'									
109-110	N00°44'17"W	0.15'									
110-111	N00°27'15"W	119.35'									
111-112	N00°26'43"W	111.05'									
112-113	N89°33'17"E	17.89'									
113-114	N89°33'17"E	32.11'									
114-115	N89°33'17"E	0.89'									
115-116	N89°33'17"E	33.00'									
116-117	S00°20'19"E	198.10'									
117-100	S10°28'33"E	33.48'									

R/W STATION & OFFSET TABLE		
POINT	STATION	OFFSET
100	10+43.73	39.33' RT
101	10+10.67	45.00' RT
102	8+25.00	45.00' RT
103	8+25.00	33.49' RT
104	8+25.00	0.49' RT
105	8+25.00	0.00'
106	8+25.00	32.51' LT
107	9+14.71	32.53' LT
108	9+79.15	50.00' LT
109	10+44.71	50.00' LT
110	10+44.91	50.00' LT
111	11+63.95	50.00' LT
112	12+75.00	50.00' LT
113	12+75.00	32.11' LT
114	12+75.00	0.00'
115	12+75.00	0.89' RT
116	12+75.00	33.89' RT
117	10+76.89	33.51' RT

GRID FACTOR

FOUND MONUMENTATION				
POINT NAME	Υ	Х	SIZE/TYPE	
IP1000	105575.424	207150.783	1" IRON PIPE	
IP1001	105642.560	207149.427	1" IRON PIPE	
IP1002	105705.760	207148.614	1" IRON PIPE	
IP1003	105808.996	207147.927	1" IRON PIPE	



BADTKE, CHRISTOPHER

PLOT NAME

2/17/2024 11:39 AM

PLOT DATE :

FILE NAME : 78740000 0401.DWG

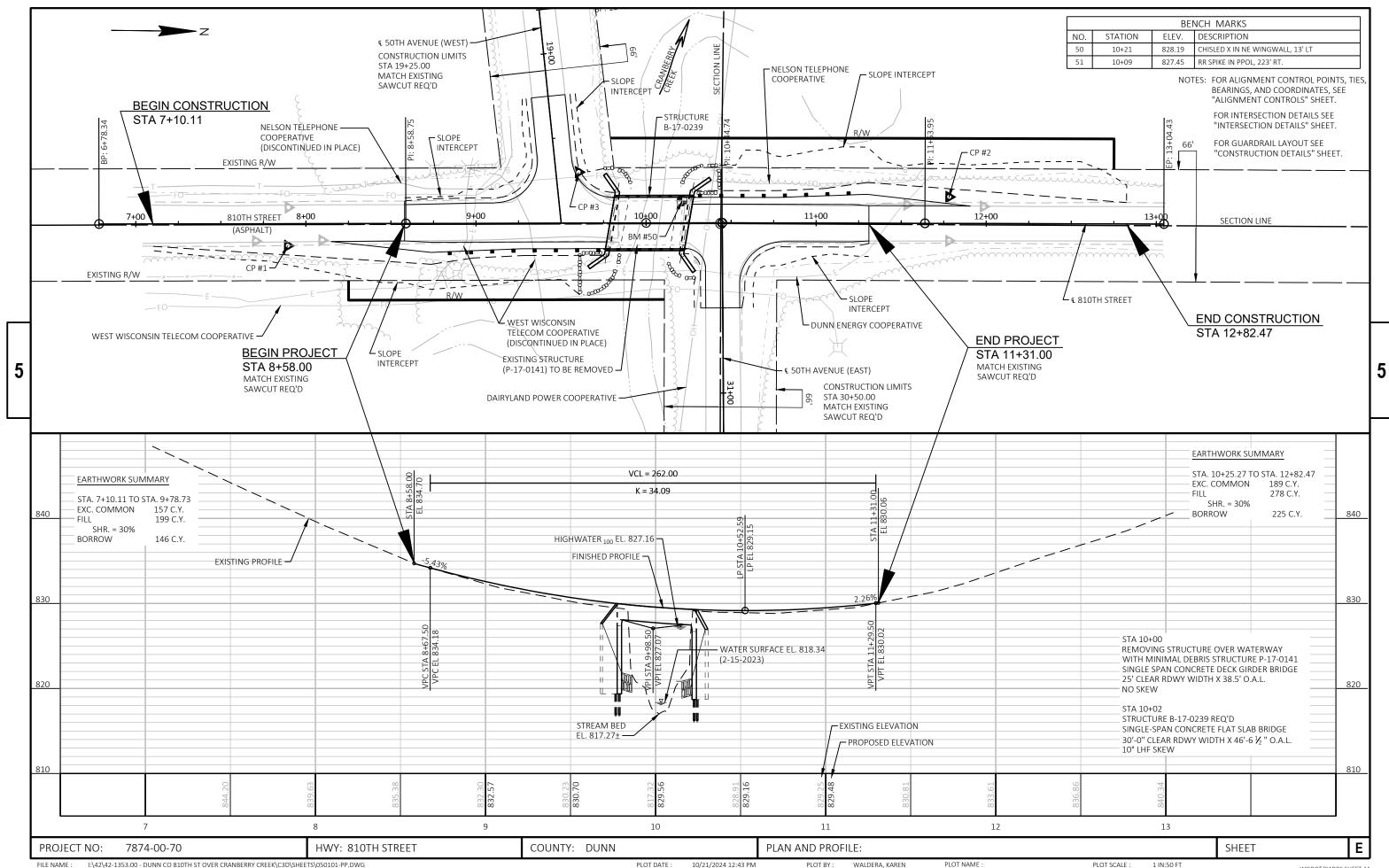
REVISION DATE

LAYOUT NAME - 0402

WISDOT/CADDS SHEET 75

PLOT SCALE :

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Standard Detail Drawing List

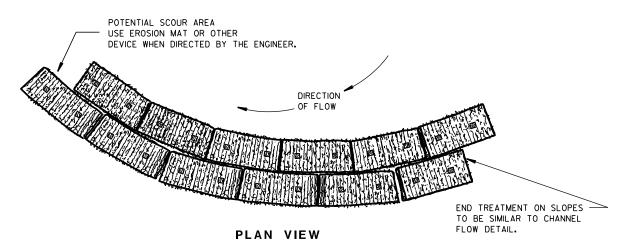
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
09A01-14A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	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)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

6

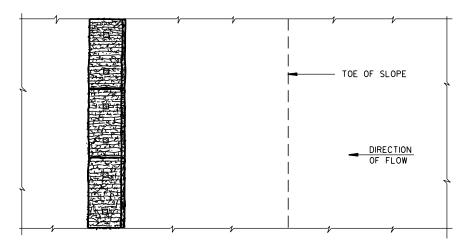
GENERAL NOTES

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.

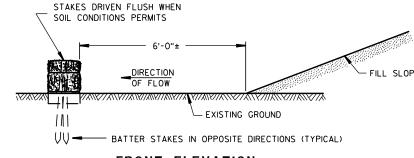
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



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

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- \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

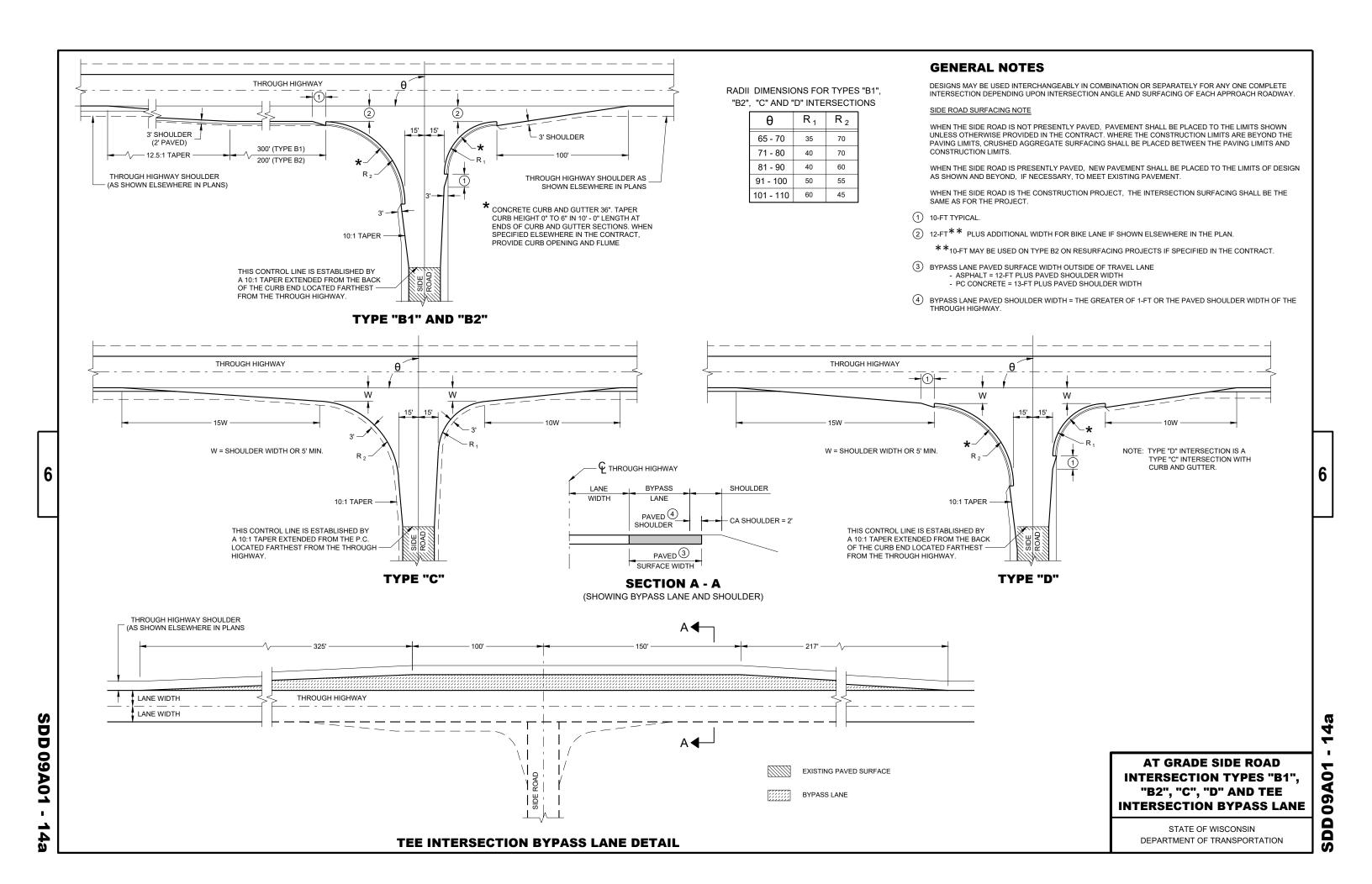
(WHEN REQUIRED BY THE ENGINEER)



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D.D. 8 E 9-6







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.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/IO /S/ Scot Becker

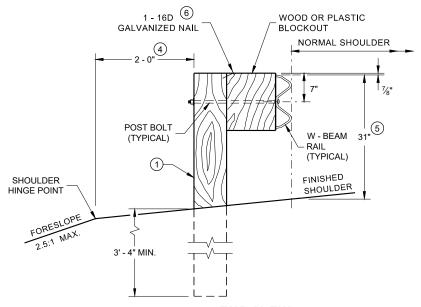
DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

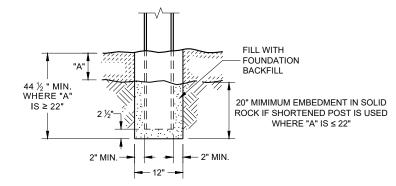
3-10



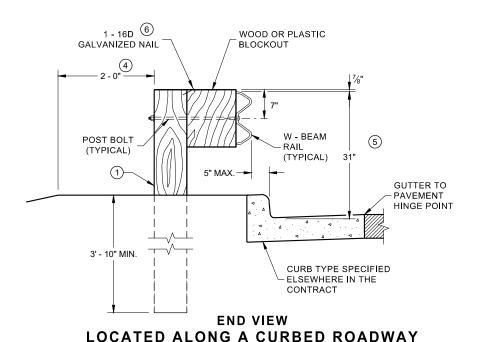
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $\fill \ensuremath{5}$ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS $\pm 1"$. 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.
- \bigcirc TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".

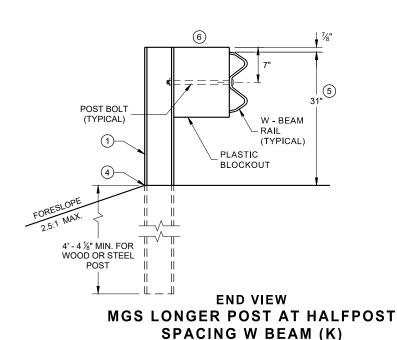


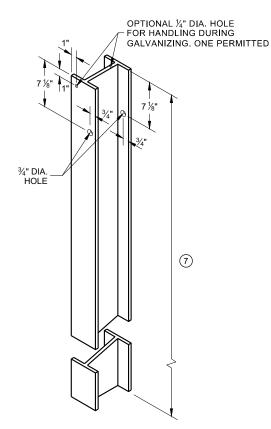
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



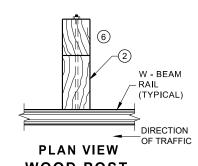
SETTING STEEL OR WOOD POST IN ROCK



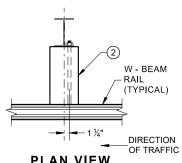




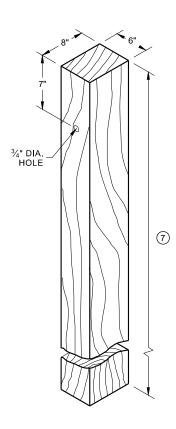
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



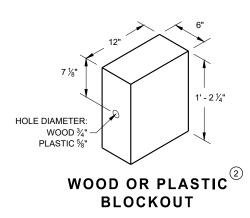
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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

6' 3" C - C

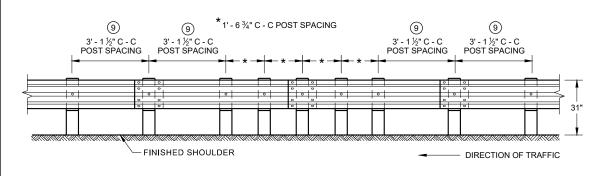
POST SPACING

DIRECTION OF TRAFFIC

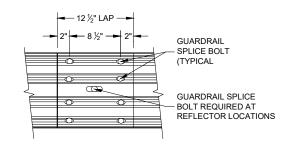
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW
QUARTER POST SPACING (QS)



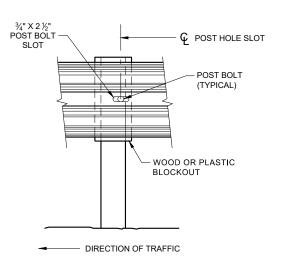
FRONT VIEW
MID-SPAN BEAM SPLICE

GENERAL NOTES

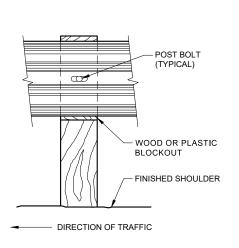
- 8 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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 BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

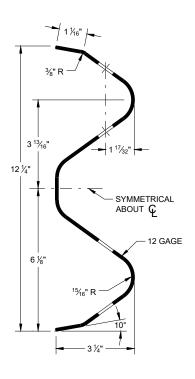
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



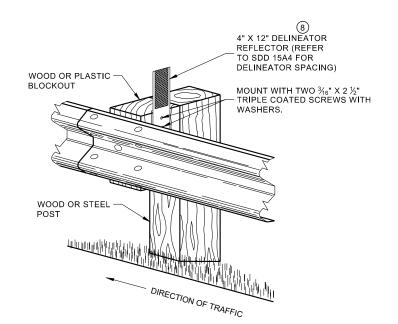
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

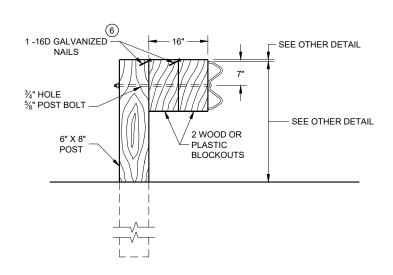
07b

SDD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

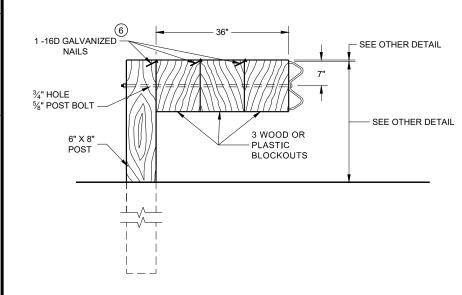
6

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.



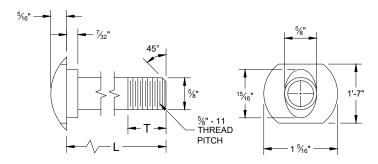
DETAIL FOR 36" BLOCKOUT DEPTH

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.

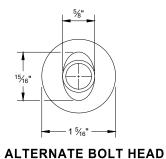
NOTE:

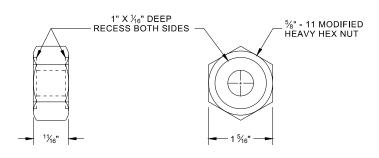
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

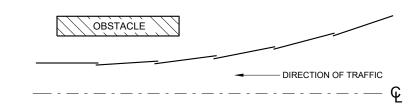
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



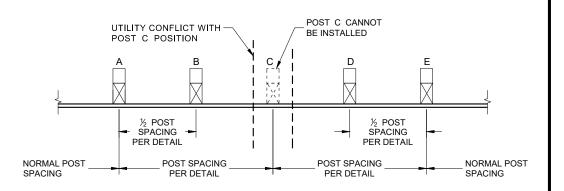


POST BOLT, SPLICE BOLT **AND RECESS NUT**

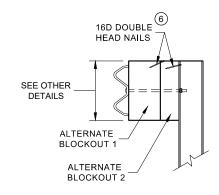
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

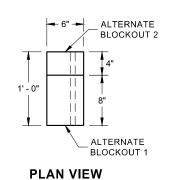


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

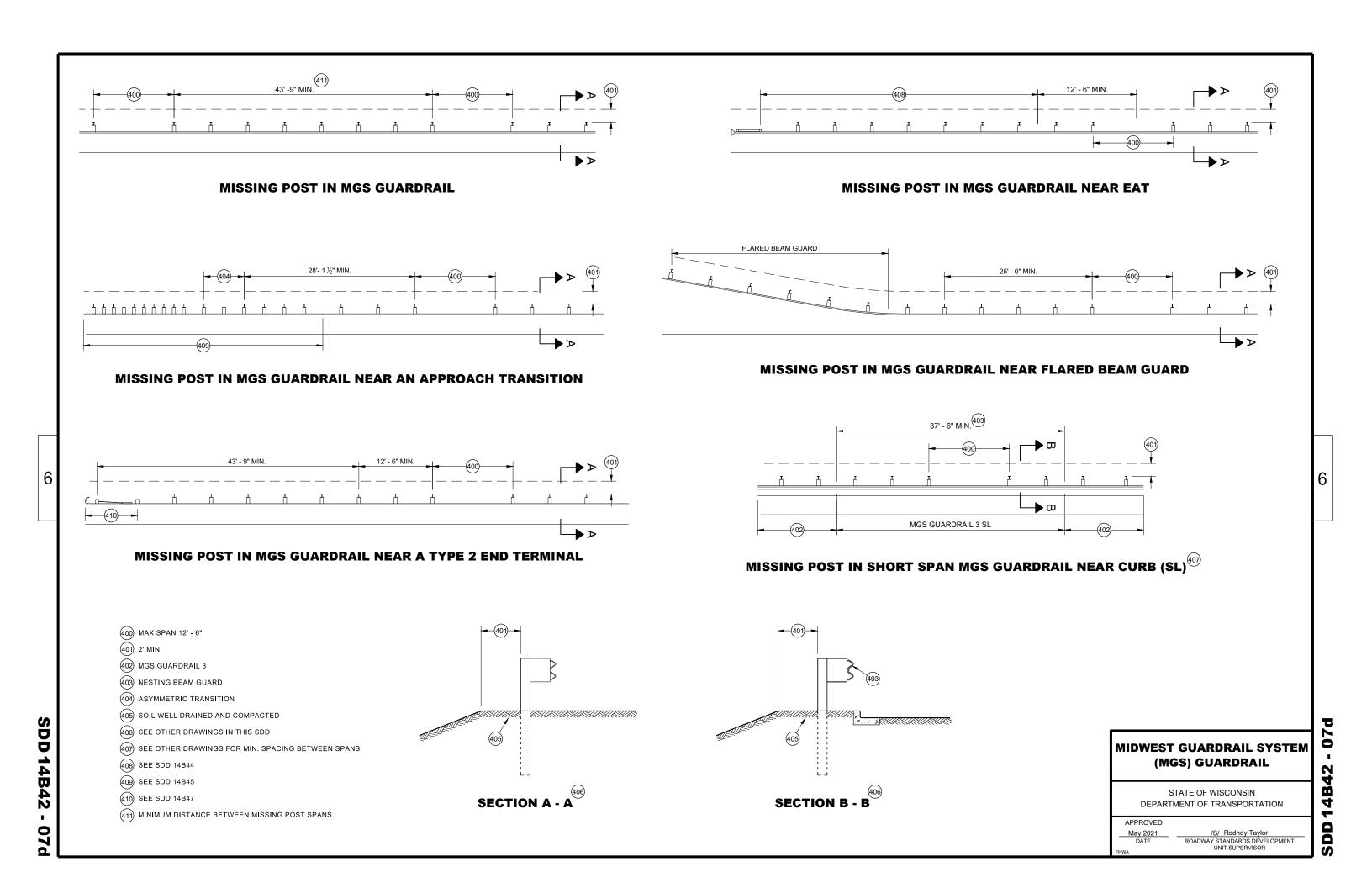
ALTERNATE WOOD BLOCKOUT DETAIL

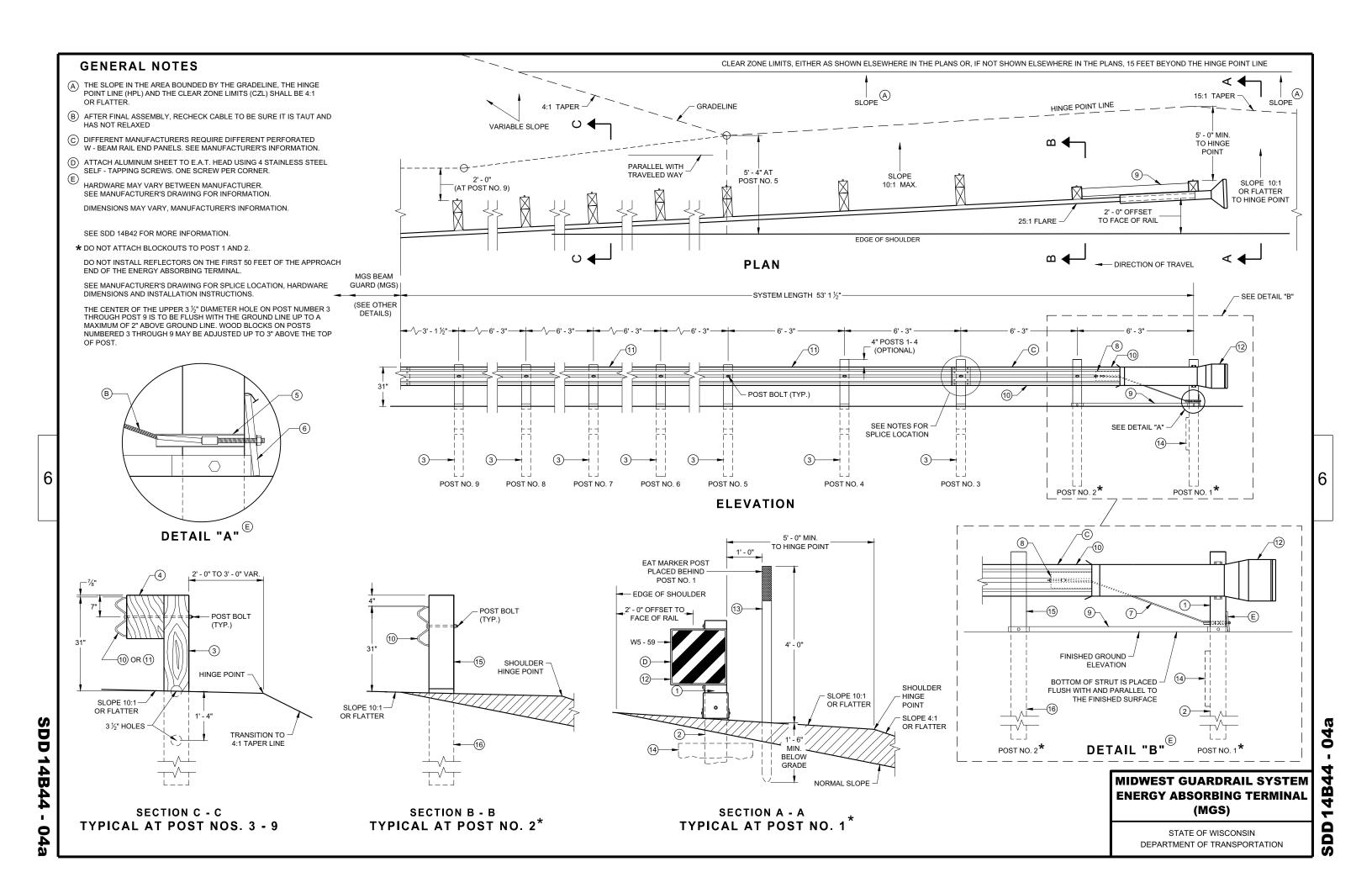
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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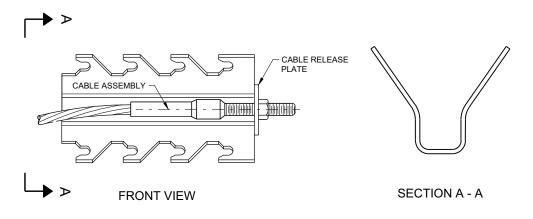
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

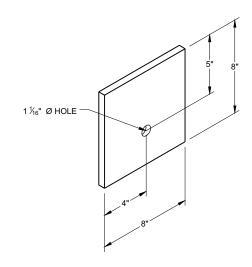




GENERIC GROUND STRUT



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



BEARING PLATE

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

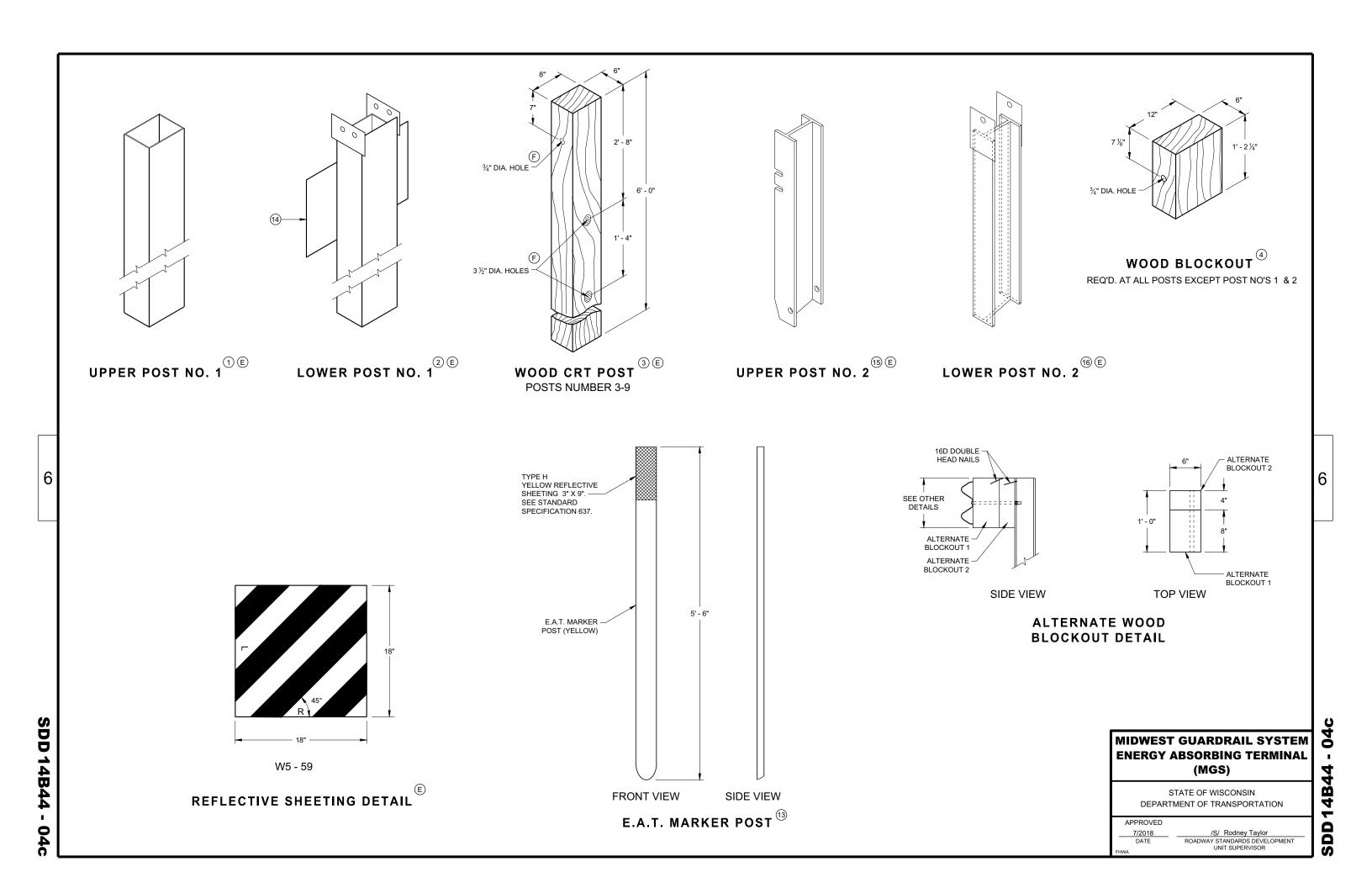
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

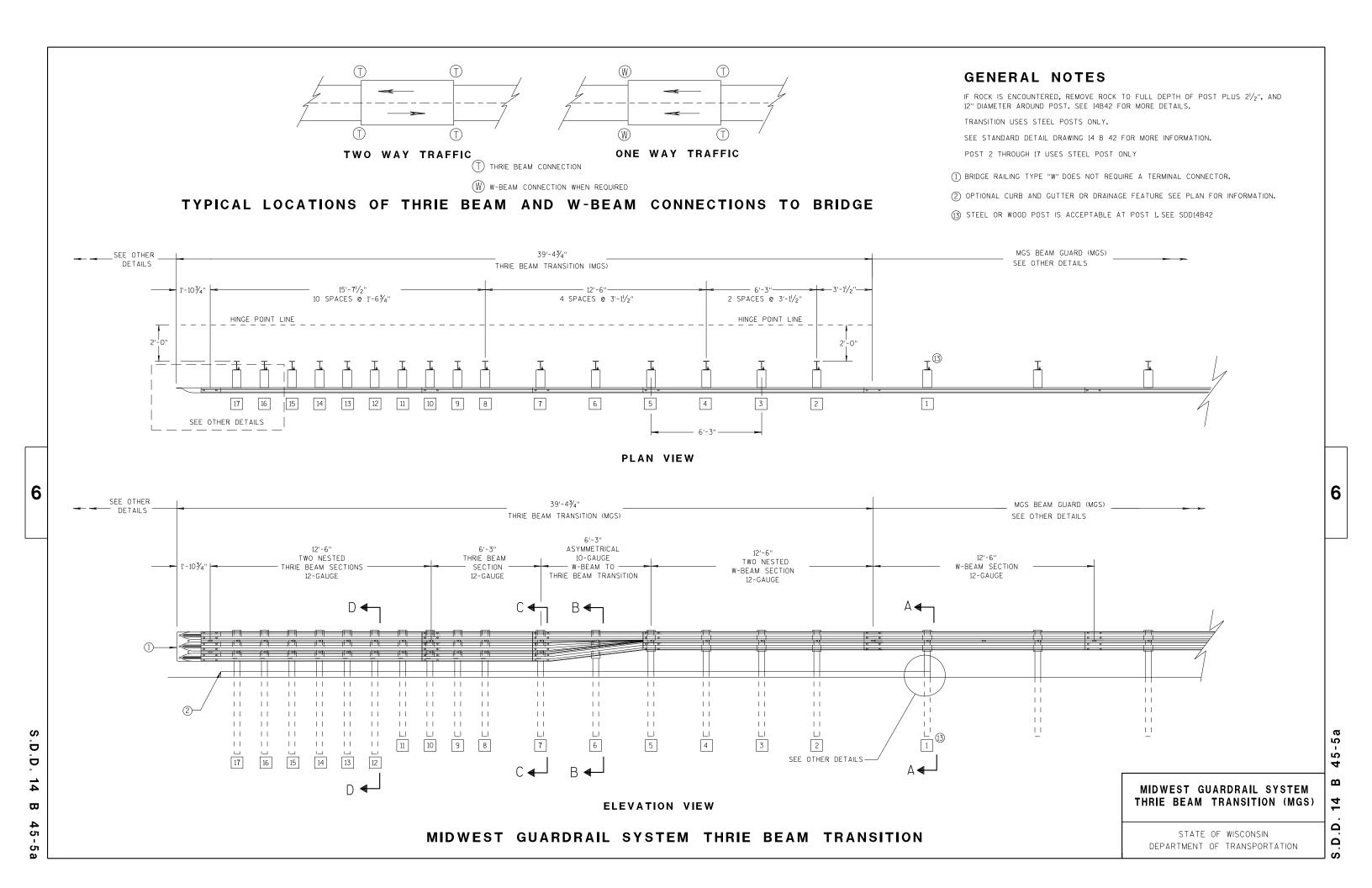
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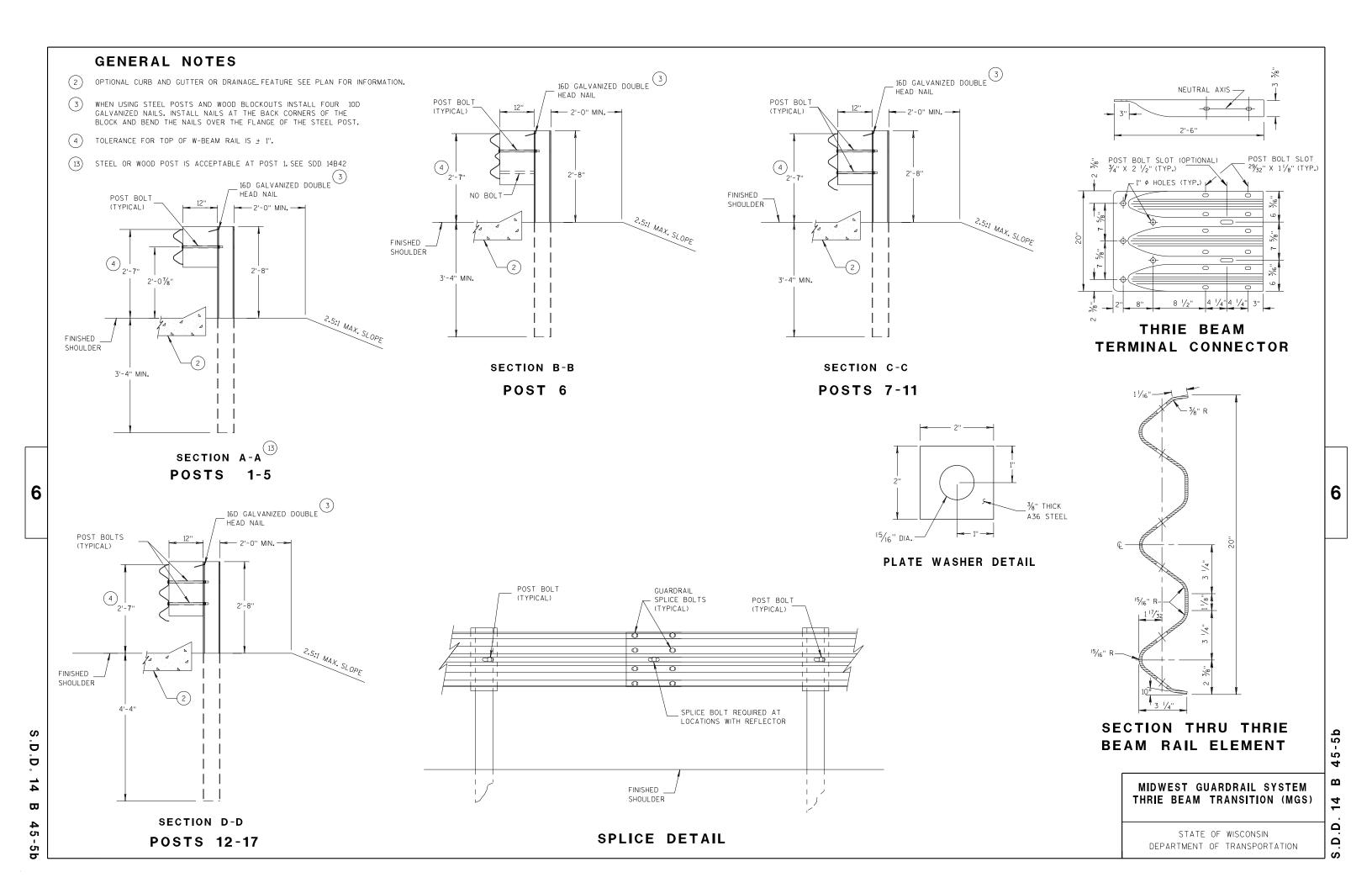
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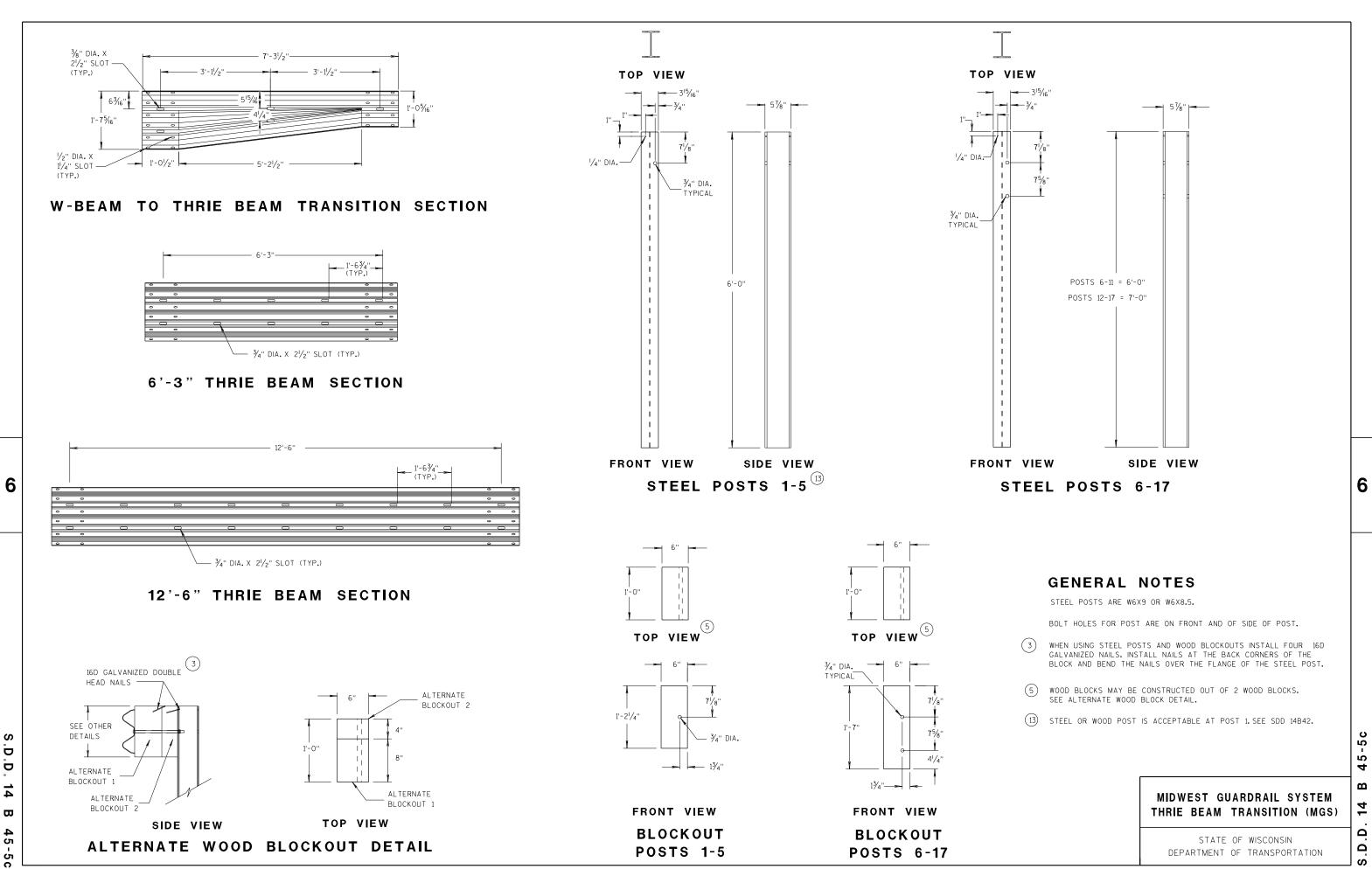
SDD

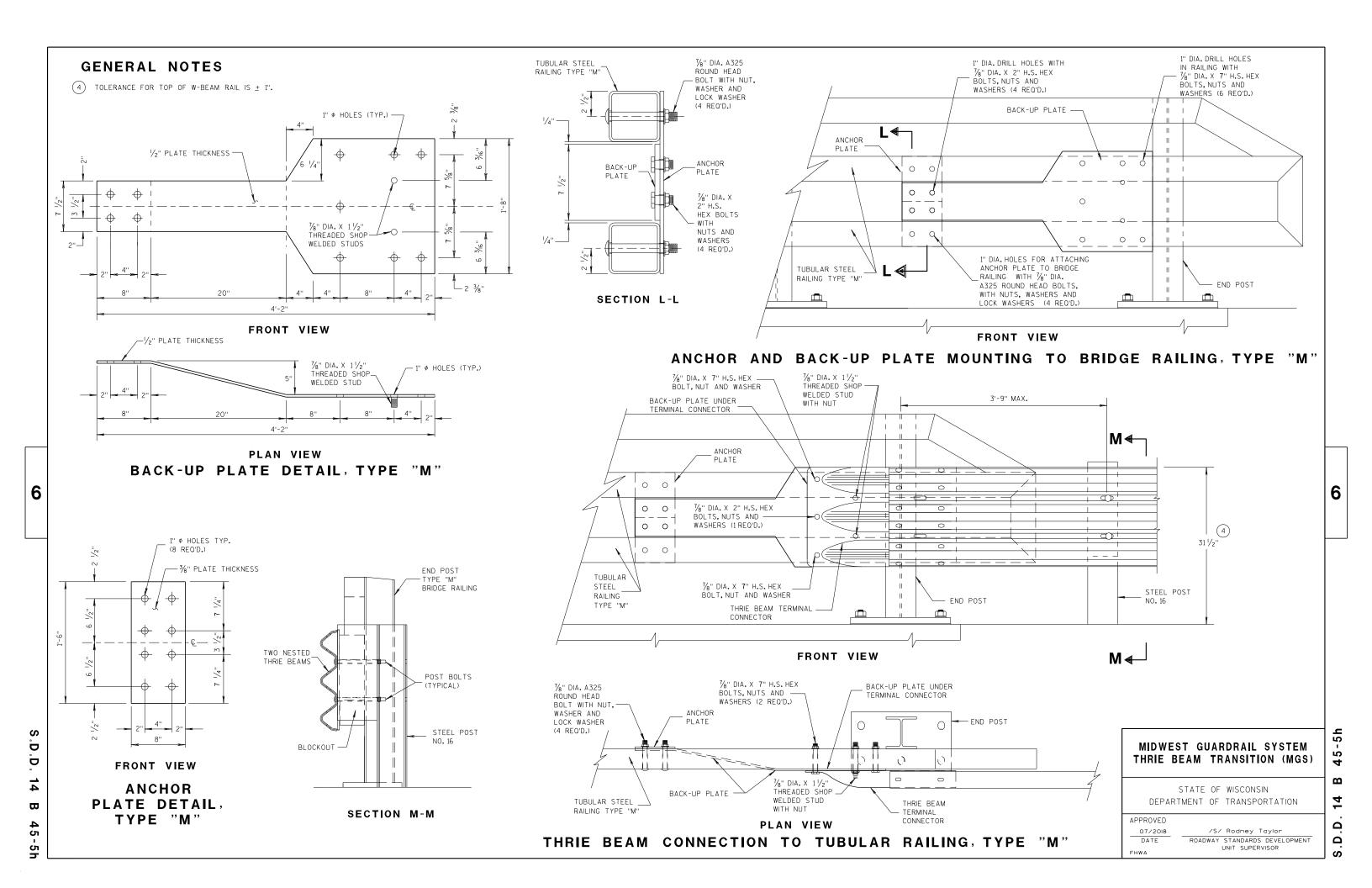
SDD 14B44 - 04















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 <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

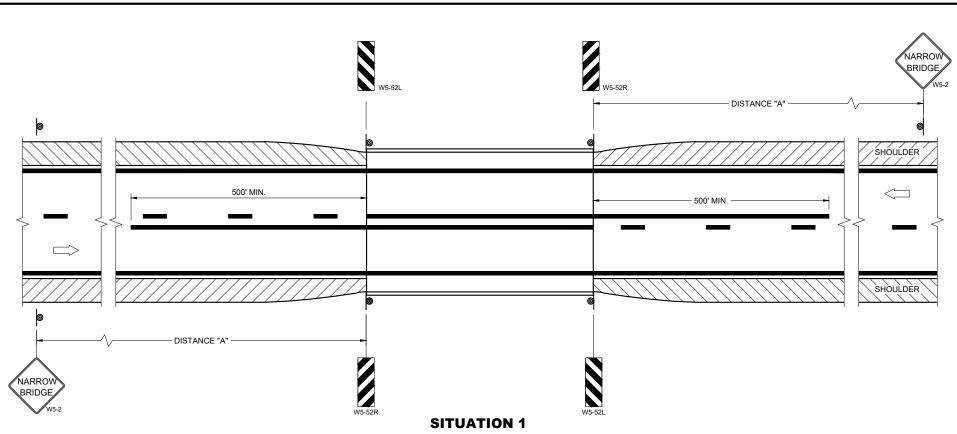
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE WORK ZONE ENGINEER

Ò 0 Ŋ



SDD 15C06-12



WARRANTING CRITERIA: BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

OR SHOULDER SHOULDER WS-52R WS-52L

SITUATION 2

WARRANTING CRITERIA: 1. BRIDGE WIDTH IS AT LEAST 24 FEET <u>AND</u> 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

SDD

15C06-12

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2023	/S/ Jeannie Silver
DATE	Statewide Pavement Marking Engineer
FHWA	

GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER Ŋ

SDD

SDD 15C11

2" MAX.

4" MAX.

- WHITE 360° REBOUNDABLE
REFLECTIVE SHEETING

- FLEXIBLE ORANGE POST

FLUORESCENT ORANGE

The state of the state o

FLEXIBLE TUBULAR

FLEXIBLE TUBULAR

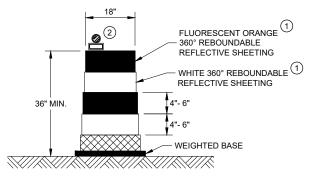
MARKER POST

WORK ZONE

SDD 15C11

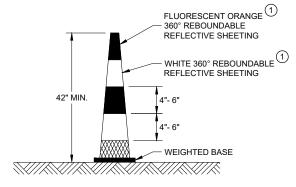
GENERAL NOTES

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



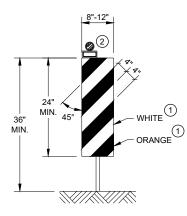
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



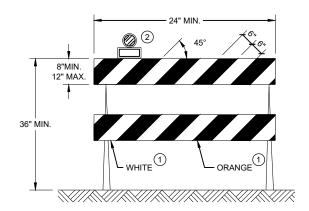
42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



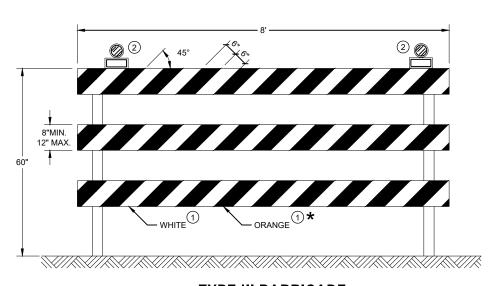
VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

APPROVED	
November 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER





RURAL AREA (See Note 2)



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 or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm) 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" (\pm) 3".

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

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



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

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

The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

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

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. _A4-3.23

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



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





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



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

HWY:

SIGN SHAPE OTHER THAN	DIAMOND
(THREE POSTS REQUIR	RED)
L	Е
Greater than 108" to 144"	12''

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" (±) 3" or 6'-3" (±) 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) 3'' or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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.
- $\times \times \times$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

PLATE NO. <u>A4-4.16</u>

Ε

CUEET NO.

SHEET NO:

FILE NAME : C:\CAEfiles\Project\tr_stdplate\A44.dgn

PROJECT NO:

COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h

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



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

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

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

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

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

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN

PROJECT NO:



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

DATE 2/05/15

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

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. 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

CHANNEL

GENERAL NOTES

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

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

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

PROJECT NO:

VIEW FROM TOP

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 $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X $1/_{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

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

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Manher R

APPROVED

DATE 4/19/2022 PLATE NO. A5-10.3

SHEET NO:

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

PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

SIGN

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε



- 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

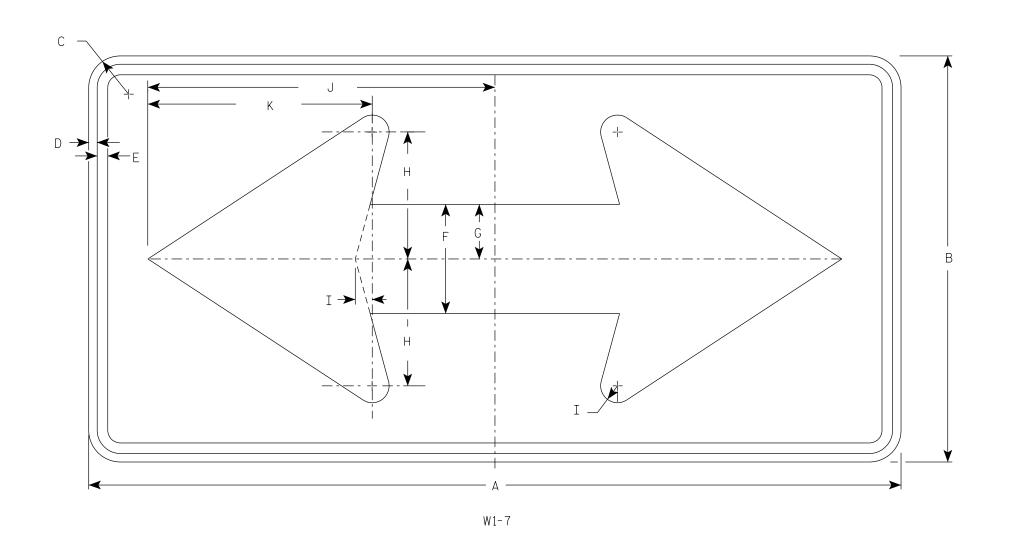
PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 4.427909:1.000000

WISDOT/CADDS SHEET 42

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

Background - Yellow Message – Black



SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	Ν	0	Ρ	Q	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
25	48	24	1 1/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 1/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 1/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 1/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	3	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W17.dgn

HWY:

PROJECT NO:

PLOT DATE: 10-MAY 2023 3:05

PLOT BY : dotc4c

PLOT NAME :

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

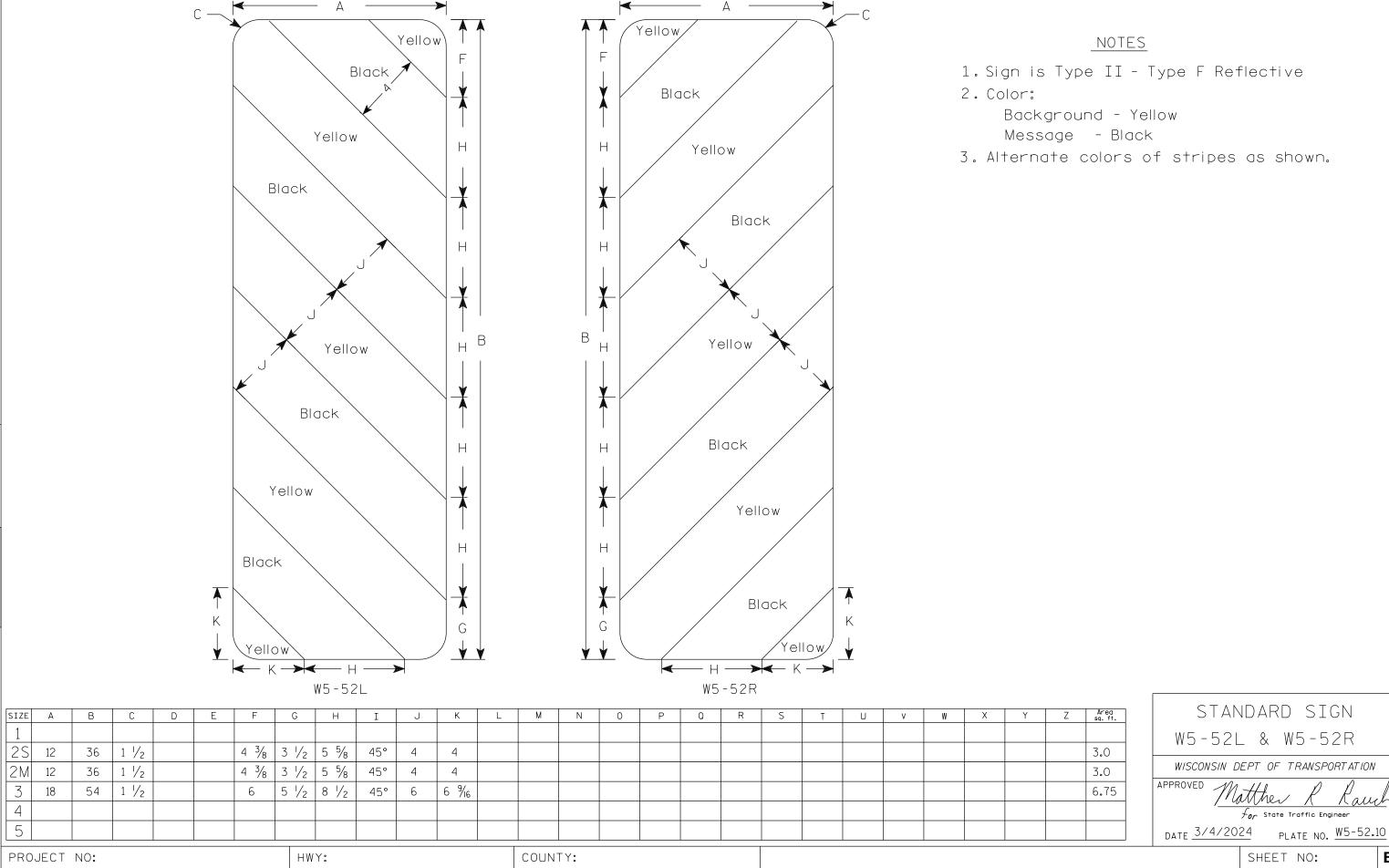
W1 - 7WISCONSIN DEPT OF TRANSPORTATION

STANDARD SIGN

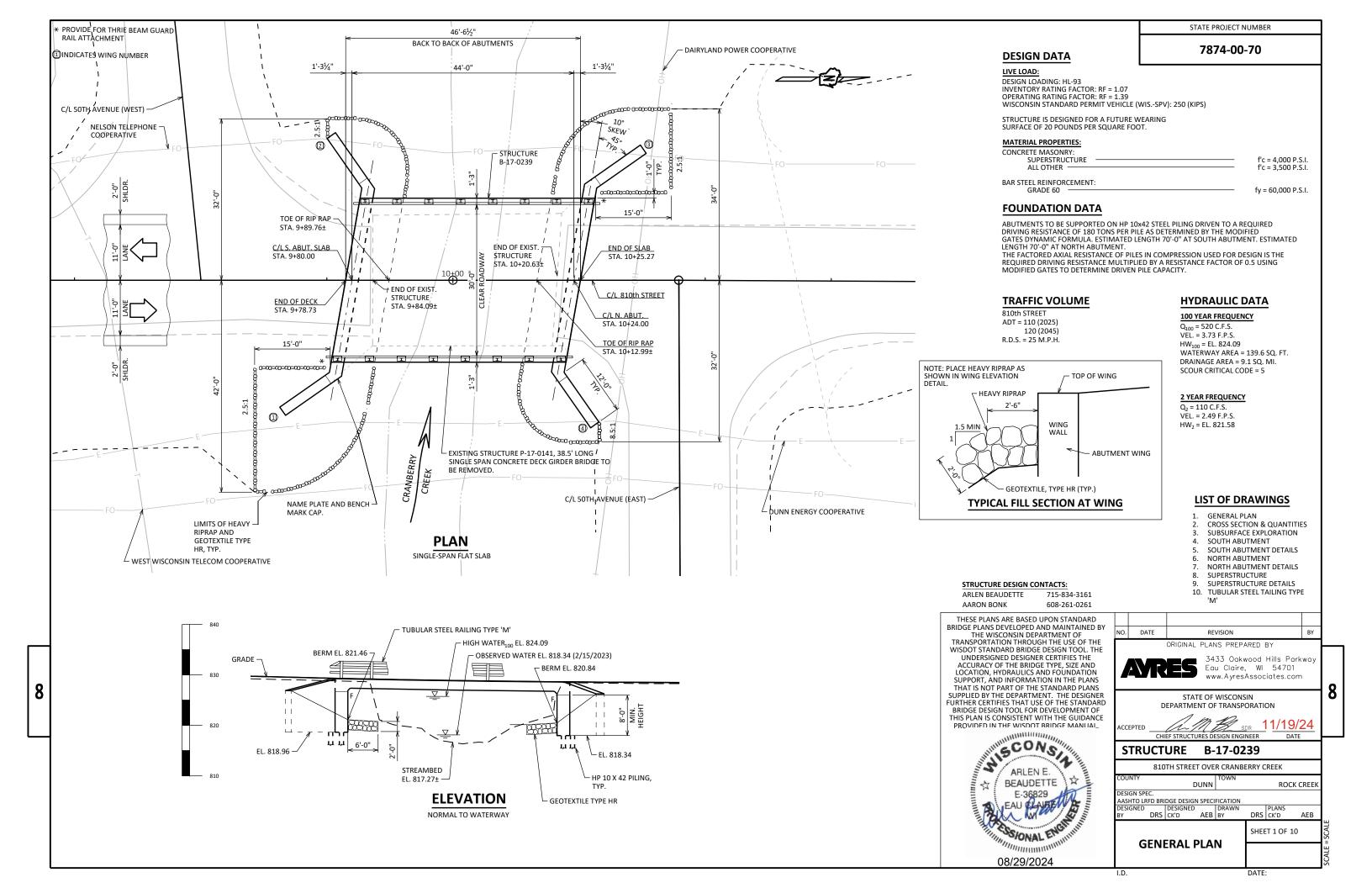
APPROVED Matther

For State Traffic Engineer

DATE 5/10/2023 PLATE NO. W1-7.8 SHEET NO:



PLOT DATE: 4-MARCH 2024 11:57 PLOT NAME : PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42 PLOT BY : dotc4c



GENERAL NOTES

7874-00-70

DRAWINGS SHALL NOT BE SCALED.

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 3/4" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-17-0239 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 TYPE A.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

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

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.

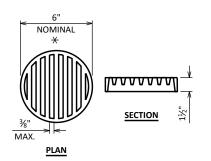
AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

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

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO ENTIRE EXPOSED TOP OF SLAB, INCLUDING THE SLAB EDGE AND 1'-0" UNDER THE SLAB, THE TOP OF EXTERIOR EXPOSED FACE OF WINGS AND FRONT FACE OF ABUTMENT TO 1'-0" PAST THE EDGE OF SLAB.

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
50	10+21	CHISLED X IN NE WINGWALL, 13' LT.	828.19
51	10+11	RR SPIKE IN PPOL, 223' RT.	827.45

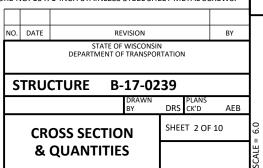


RODENT SHIELD DETAIL

 DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

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



32'-6" OUT TO OUT OF SUPERSTRUCTURE 1'-3" 1'-3" 30'-0" CLEAR BETWEEN BARRIERS 4'-0" 11'-0" 11'-0" 4'-0" SHLD. LANE LANE SHLD. € 810th STREET TUBULAR STEEL RAILING TYPE 'M' POINT REFERRED TO ON -(TYP.) PROFILE GRADE LINE TOP OF BERM **CROSS SECTION THRU ROADWAY** BOTTOM OF ABUTMENT TOP OF PAVEMENT LOOKING UPSTATION (PILING NOT SHOWN FOR CLARITY) 262'-0" **ELEVATION** SECTION A-A PT. STA. 11+29.5 EL. 830.02 PROTECTIVE SURFACE C/L N. ABUT. STA EL. 818.34 TREATMENT LIMITS PLAN SECTION B-B ABUTMENT BACKFILL DIAGRAM = ABUTMENT BODY LENGTH AT BACKFACE (FT)

PROFILE GRADE LINE

C/L 810th STREET

W = WING LENGTH (FT) EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)

= AVERAGE ABUTMENT FILL HEIGHT (FT) = WING 1 HEIGHT AT TIP (FT) = WING 2 HEIGHT AT TIP (FT)

 $V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)$

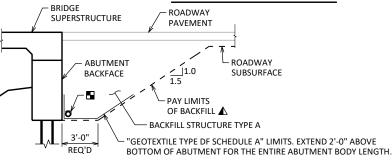
 $V_{CY} = V_{CF}(EF)/27$

 $V_{CY} = V_{CF}(EF)$

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	S. ABUT.	N. ABUT.	TOTALS
203.0220	REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS P-17-0141	EACH				1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-17-0239	EACH				1
210.1500	BACKFILL STRUCTURE TYPE A	TON		324	324	648
502.0100	CONCRETE MASONRY BRIDGES	CY	108	47	47	202
502.3200	PROTECTIVE SURFACE TREATMENT	SY	194	25	25	244
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		2,590	2,590	5,180
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	23,250	1,980	1,980	27,210
513.4061	RAILING TUBULAR TYPE M	LF	98			98
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		6	6	12
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF		560	560	1120
606.0300	RIPRAP HEAVY	CY		100	80	180
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		81	81	162
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		57	57	114
645.0120	GEOTEXTILE TYPE HR	SY		200	160	360
	NON-BID ITEMS					
	FILLER	SIZE				1/2", 3/4"

PROTECTIVE SURFACE TREATMENT DETAILS

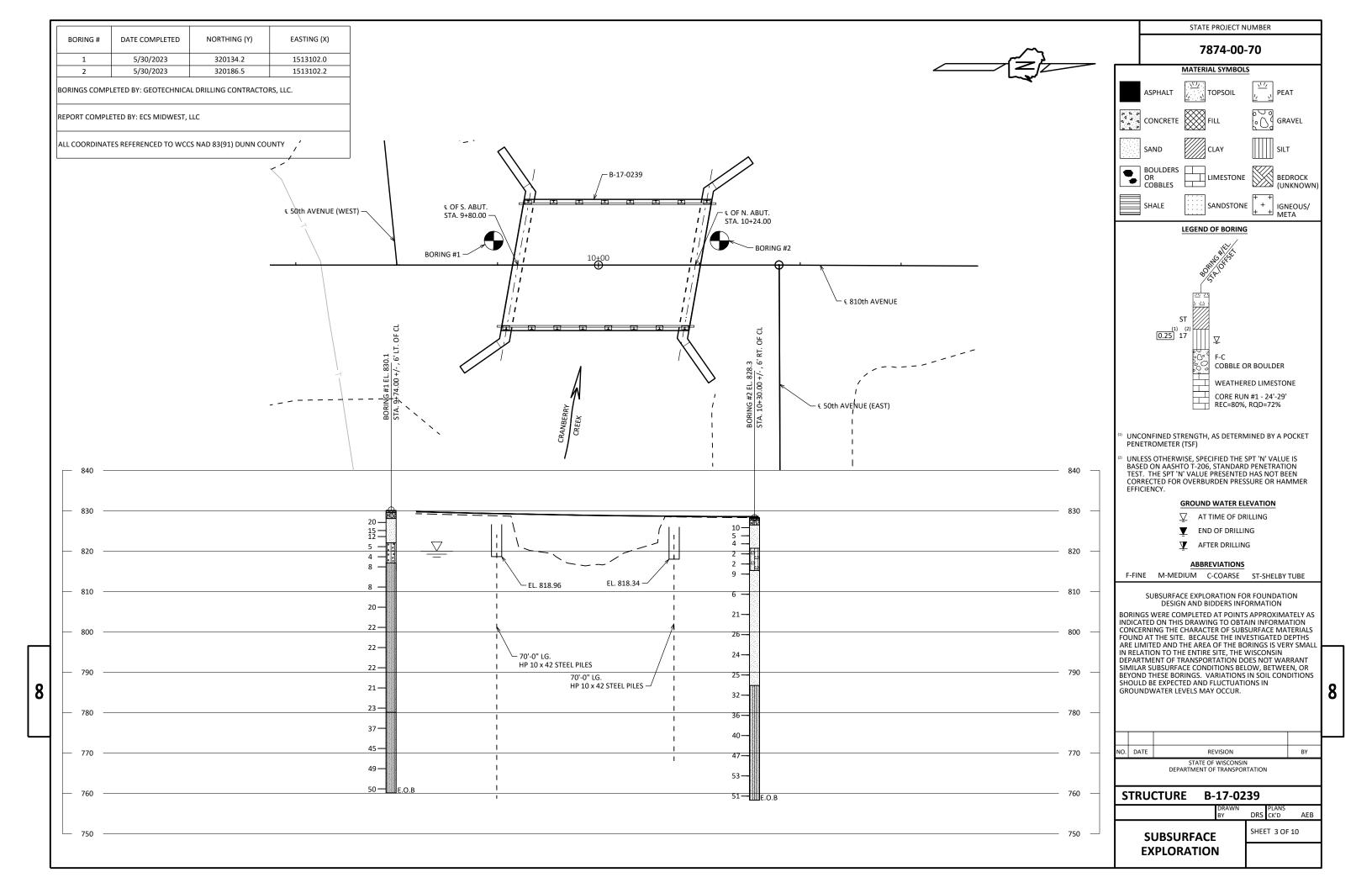


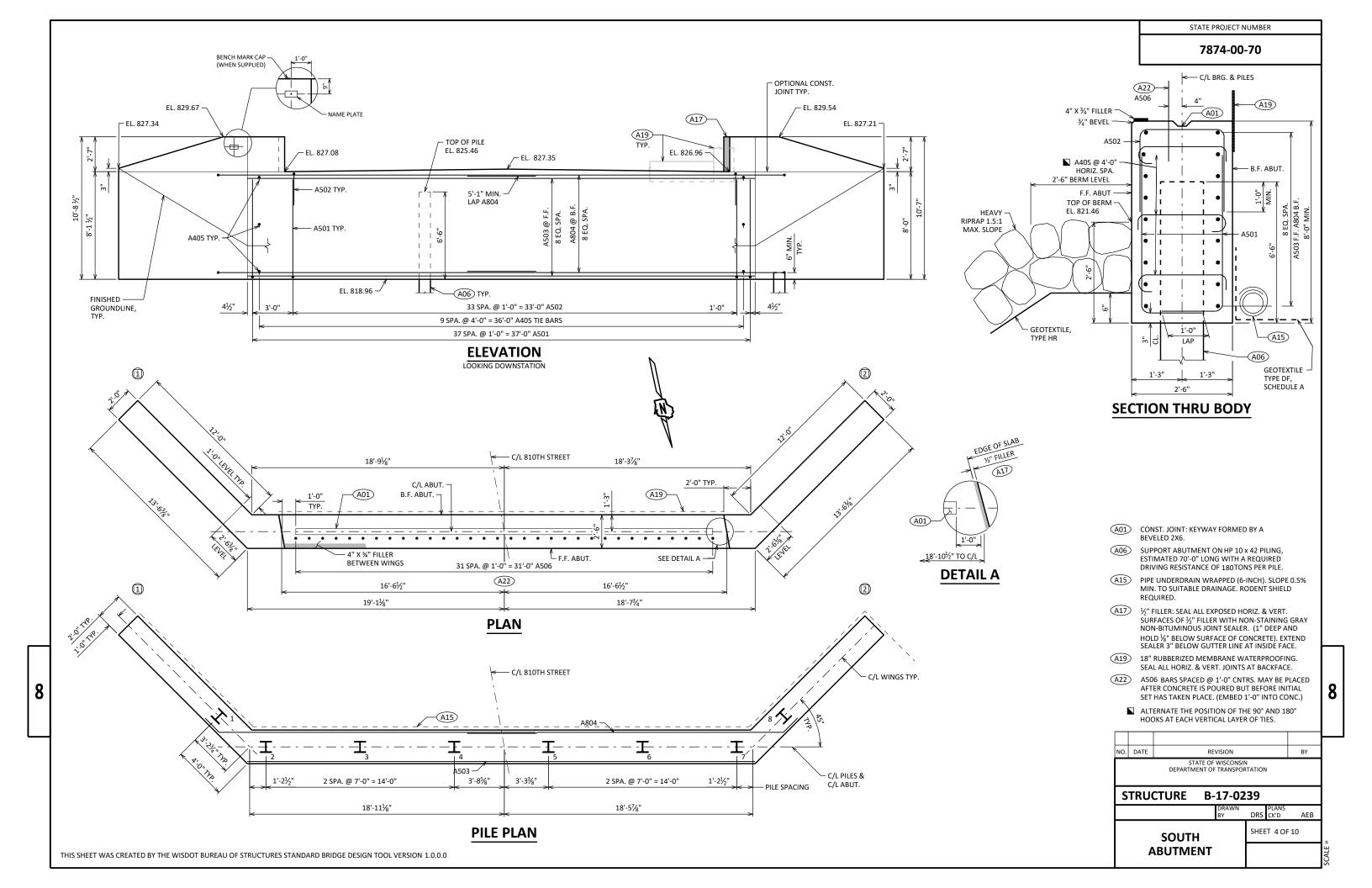
TYPICAL SECTION THRU ABUTMENT

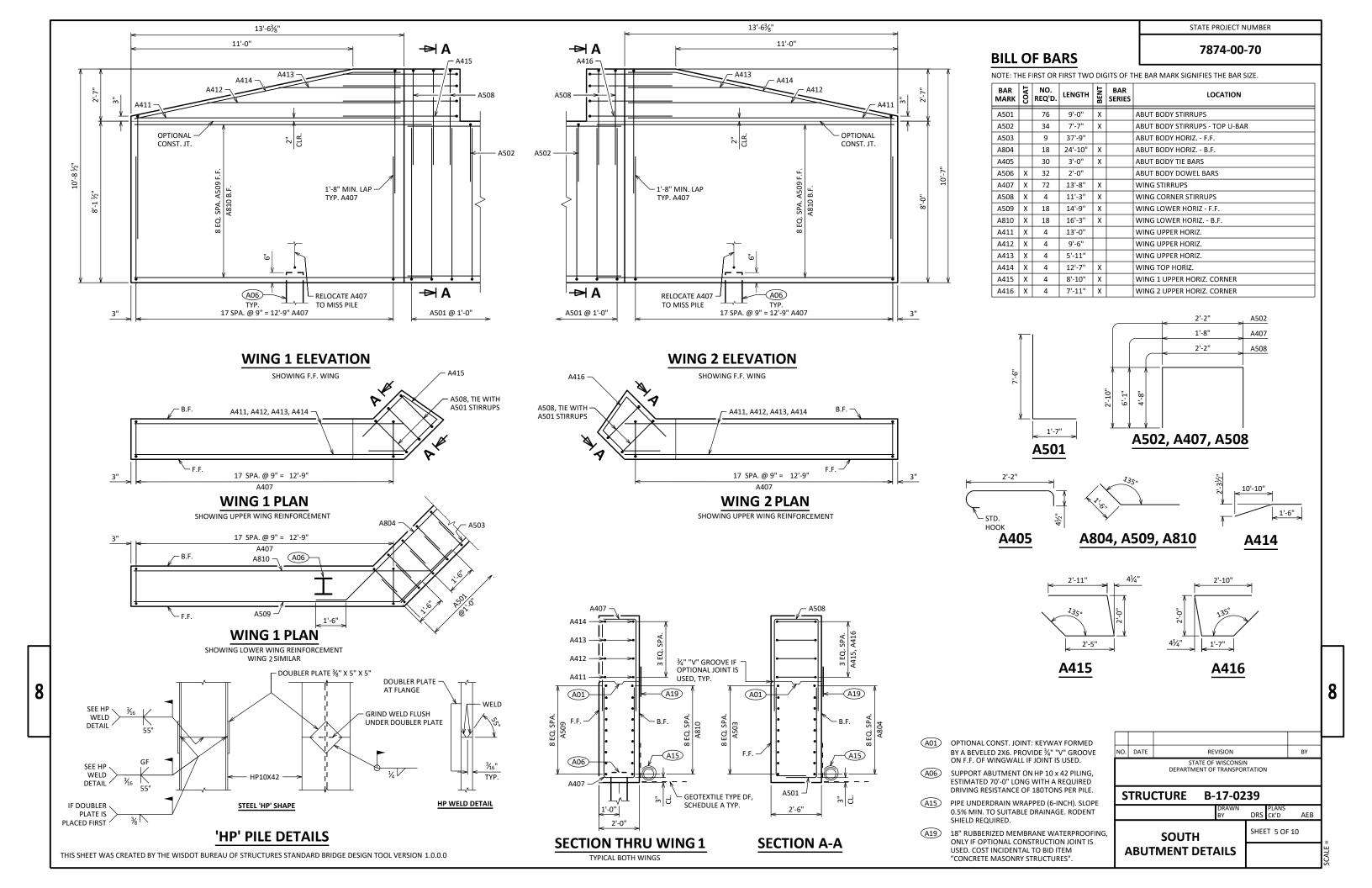
- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

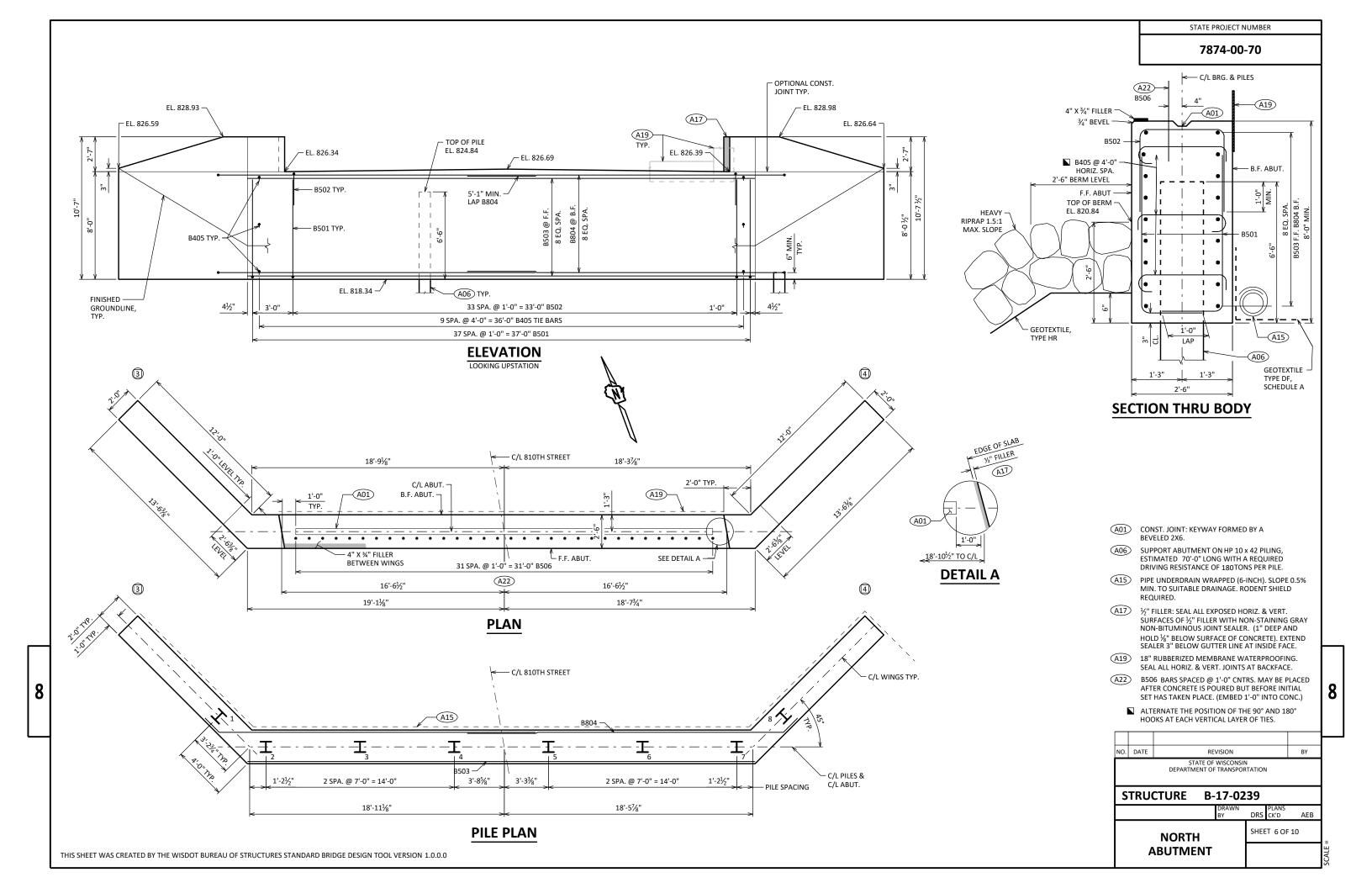
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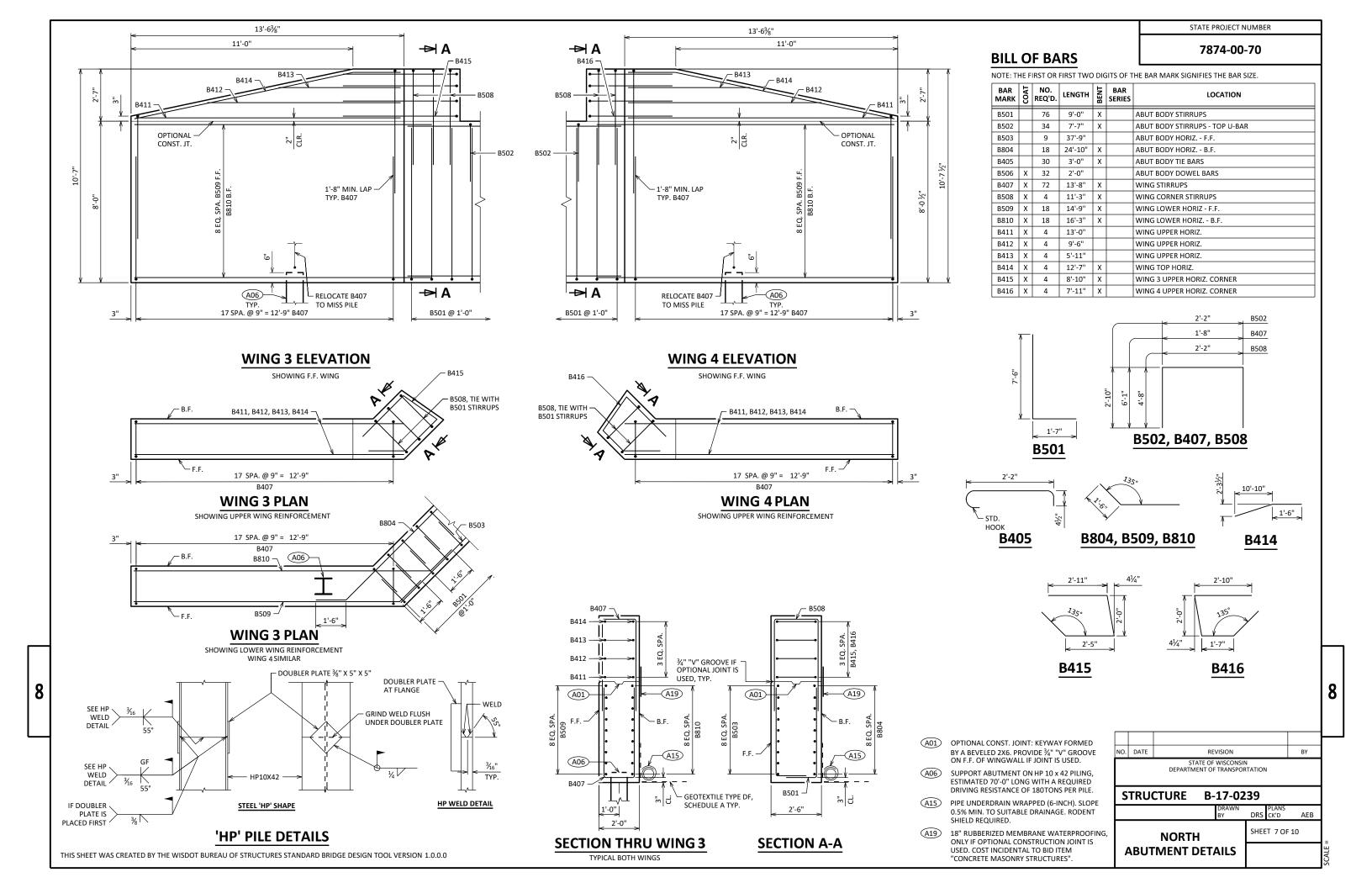
THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 1.0.0.0

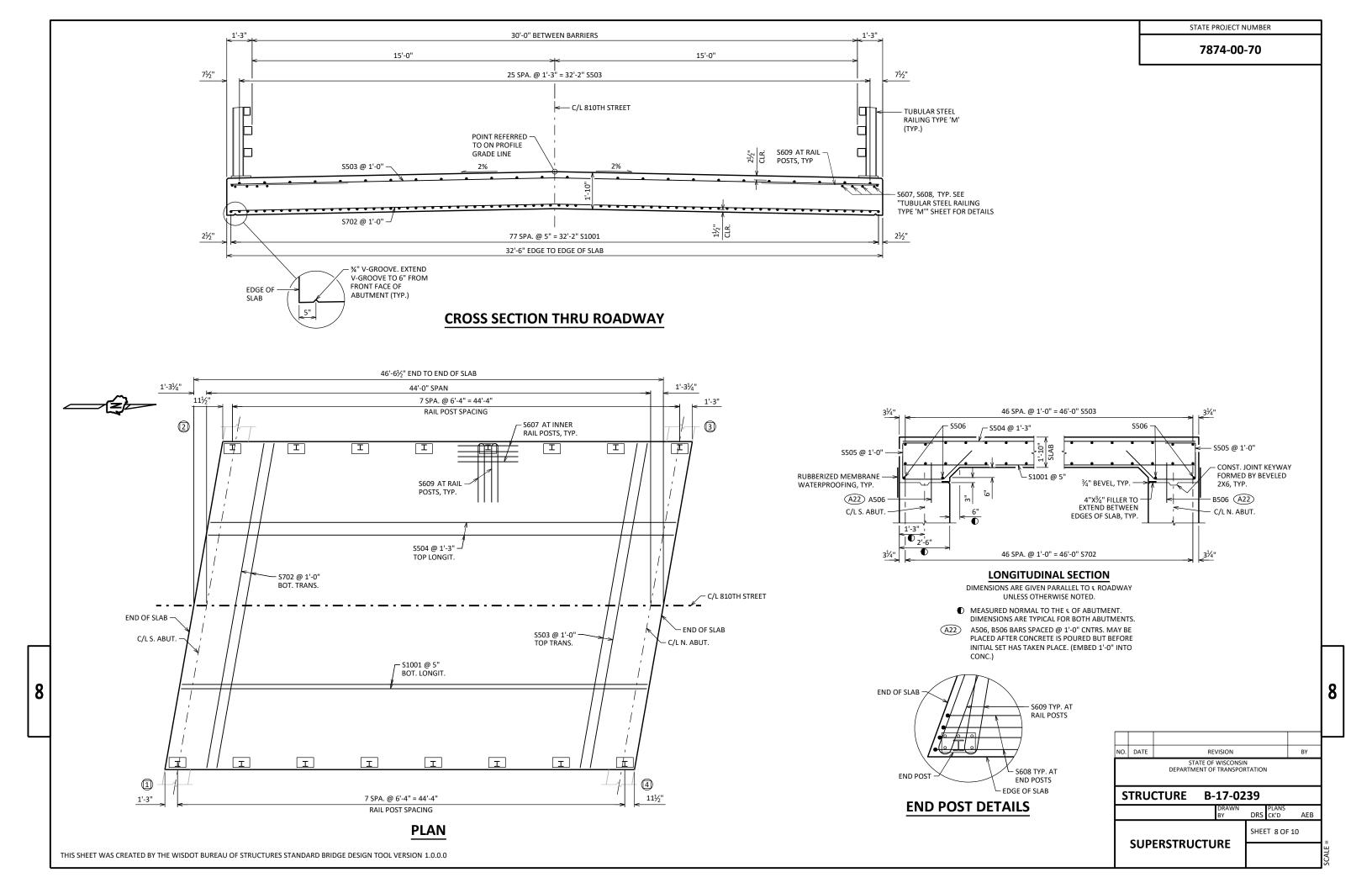












CAMBER AND SLAB THICKNESS DIAGRAM

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

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

TOP OF SLAB ELEVATION AT FINAL GRADE

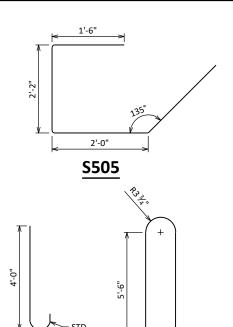
SLAB THICKNESS

PLUS

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

TOP OF SLAB ELEVATIONS

LOCATION	C/L 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.	C/L BRG. N. ABUT.
W. EDGE OF DECK	829.54	829.46	829.38	829.30	829.23	829.16	829.11	829.05	829.01	828.96	828.93
CROWN OR R/L	829.93	829.84	829.75	829.67	829.60	829.53	829.47	829.41	829.36	829.32	829.28
E. EDGE OF DECK	829.67	829.57	829.48	829.40	829.32	829.25	829.18	829.12	829.07	829.02	828.98



S609

S608

BILL OF BARS

7874-00-70

STATE PROJECT NUMBER

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

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S1001	Х	78	46'-2"			SLAB BOTTOM LONGITUDINAL
S702	Х	47	32'-8"			SLAB BOTTOM TRANSVERSE
S503	Х	47	32'-8"			SLAB TOP TRANSVERSE
S504	Х	26	46'-2"			SLAB TOP LONGITUDINAL
S505	Х	66	7'-5"	Х		ABUTMENT DIAPHRAGM STIRRUPS
S506	Х	4	32'-8"			ABUTMENT DIAPHRAGM LONGITUDINAL
S607	Х	48	6'-0"			SLAB TOP LONGIT. UNDER RAIL POSTS
S608	Х	16	4'-8"	Х		SLAB TOP LONGIT. UNDER RAIL END POSTS
S609	Х	32	12'-0"	Х		SLAB TOP HOOKS UNDER RAIL POSTS

SURVEY TOP OF SLAB ELEVATIONS

LOCATION	ABUTMENT	5/10 PT.	ABUTMENT
W. EDGE OF SLAB			
CROWN OR R/L			
E. EDGE OF SLAB			

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

NOTES

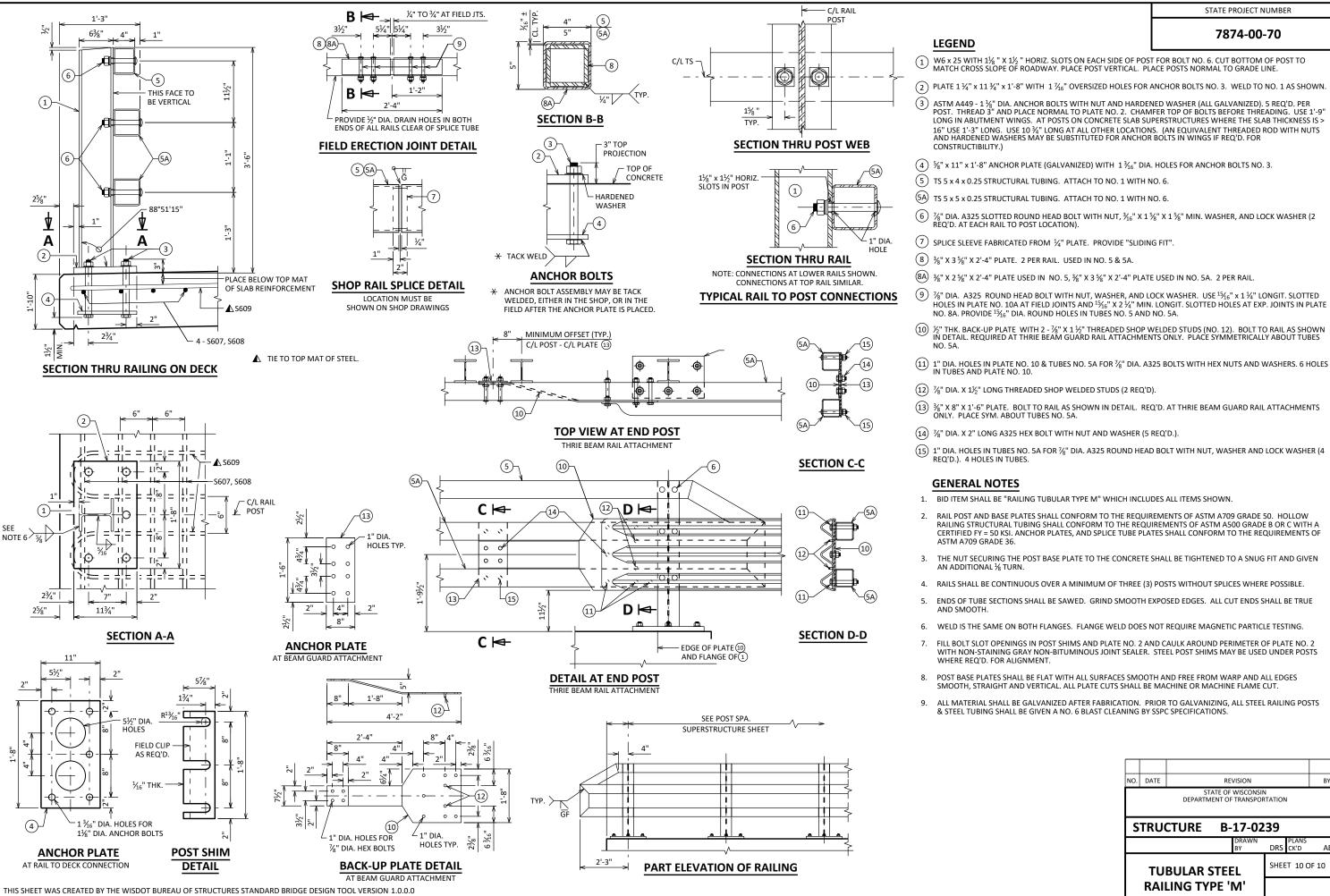
FILL IN THE TABLE OF "SURVEY TOP OF SLAB ELEVATIONS" FOR EACH SPAN ON AS BUILT PLANS.

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

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

							H	
NO.	IO. DATE REVISION BY							
		STATE OF DEPARTMENT OF	WISCONSIN TRANSPOR		N			
STRUCTURE B-17-0239								
			DRAWN BY	DRS	PLANS CK'D	AEB		
	SUP	ERSTRUCTU	SHEET 9 OF 10					
	DETAILS						- -	

8



- 2 PLATE 1 $\frac{1}{4}$ " x 11 $\frac{3}{4}$ " x 1'-8" WITH 1 $\frac{7}{16}$ " OVERSIZED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN.
- (3) ASTM A449 1 1/8" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-9" LONG IN ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG. USE 10 $\frac{3}{4}$ " LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR

- 9 %" Dia. A325 Round Head Bolt with nut, washer, and lock washer. Use $^{1}\%_{6}$ " x 1 %" longit. Slotted Holes in Plate No. 10a at field joints and $^{1}\%_{6}$ " x 2 %" Min. Longit. Slotted Holes at exp. Joints in Plate
- $^{(1)}$ ½" THK. BACK-UP PLATE WITH 2 $^{\prime}$ 2" X 1 ½" THREADED SHOP WELDED STUDS (NO. 12). BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES

- 15 1" DIA. HOLES IN TUBES NO. 5A FOR 7/8" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER AND LOCK WASHER (4
- RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW
 RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A
 CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN
- 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE
- 6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
- WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS
- SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION **STRUCTURE B-17-0239** DRS CK'D SHEET 10 OF 10 **TUBULAR STEEL RAILING TYPE 'M'**

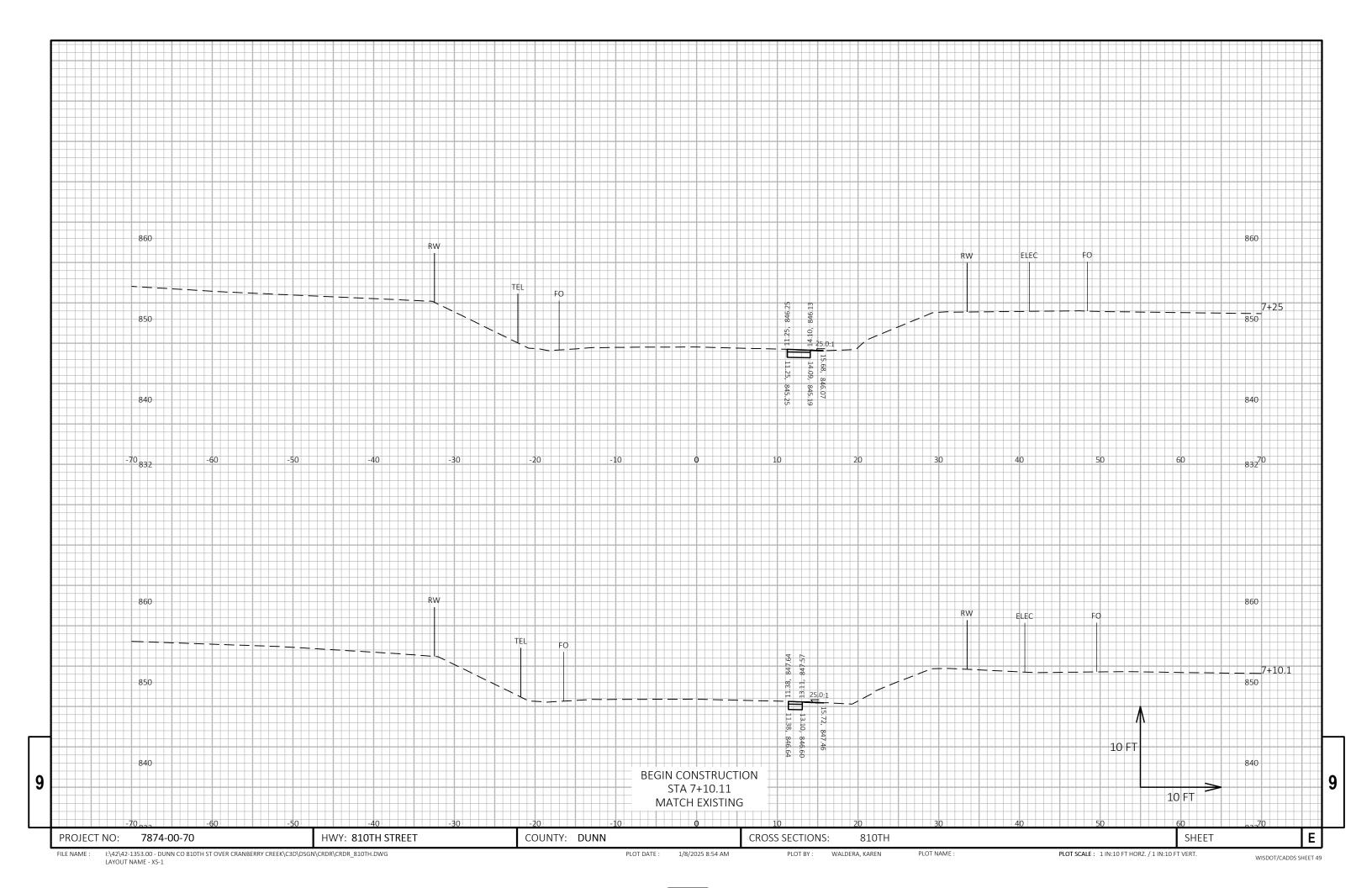
810TH STREET COMPUTER EARTHWORK

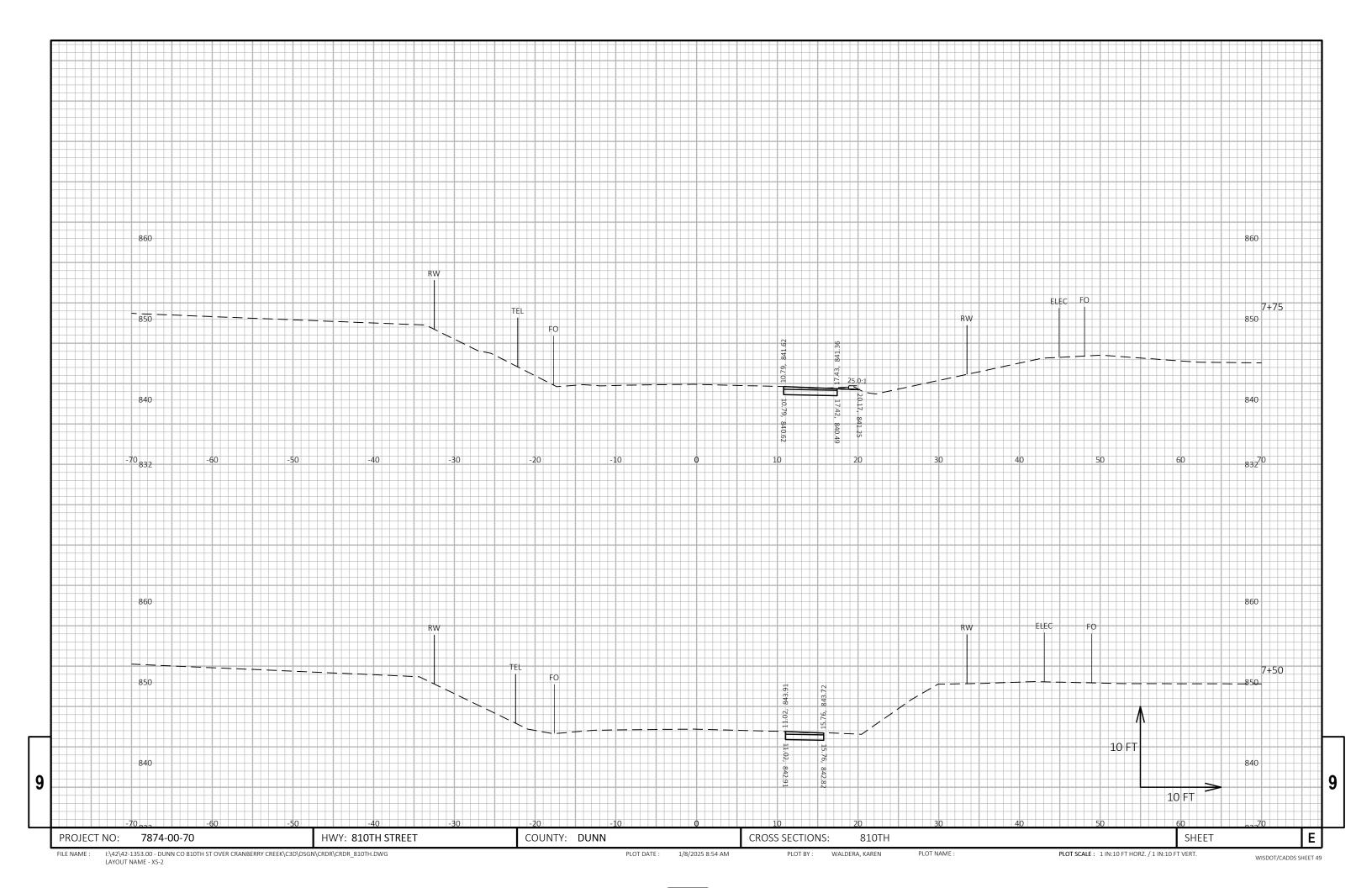
		Area (SF)			Incremental Vol (CY) (Unadjusted)			Cumulati	ve Vol (CY)	
					Salvaged /			Expanded		
Station	Distance	Cut	Unuseable	Fill	Cut	Unuseable	Fill	Cut	Fill	Mass Ordinate
			Pavement			Pavement		1.00	1.30	
			Material			Material				
					Note 1	Note 4	Note 2	Note 5		Note 3
7+10.11	-	1.6	4.4	0.1						
7+25	14.89	2.7	4.4	0.1	1	2	0	-1	0	-1
7+50	25.00	4.4	4.4	0.0	3	4	0	-2	0	-2
7+75	25.00	6.8	4.4	0.0	5	4	0	-1	0	-1
8+00	25.00	6.3	4.4	1.8	6	4	1	1	1	0
8+25	25.00	5.2	4.4	5.6	5	4	3	2	6	-3
8+50	25.00	4.2	4.4	24.9	4	4	14	3	24	-21
8+58	8.00	28.1	4.4	23.2	5	1	7	6	33	-27
8+73.53	15.53	26.5	4.4	37.4	16	3	17	19	56	-37
8+98.51	24.98	22.4	4.4	30.4	23	4	31	38	97	-59
9+23.49	24.98	17.5	4.4	28.1	18	4	27	52	132	-80
9+50	26.51	15.9	4.4	31.5	16	4	29	64	170	-106
9+74.18	24.18	15.5	4.4	86.5	51	4	54	111	240	-129
9+78.73	4.55	15.5	4.4	86.5	3	1	15	113	259	-146
BRIDGE										
10+25.27		25.4	5.5	58.6		-				
10+27.78	2.51	25.4	5.5	58.6	2	1	5	115	266	-151
10+50	22.22	18.0	5.5	21.3	97	5	40	207	318	-111
10+80.05	30.05	15.2	5.5	39.2	18	6	34	219	361	-142
11+05.03	24.98	21.8	5.5	60.7	17	5	46	231	421	-190
11+30.01	24.98	26.9	5.5	44.6	23	5	49	249	485	-236
11+50	19.99	4.1	5.5	12.4	11	4	21	256	512	-256
11+75	25.00	3.7	5.5	19.7	4	5	15	255	531	-277
12+00	25.00	3.6	5.5	19.6	3	5	18	253	555	-302
12+25	25.00	3.1	5.5	22.3	3	5	19	251	580	-329
12+50	25.00	4.1	5.5	21.3	3	5	20	249	607	-357
12+75	25.00	5.8	5.5	1.1	5	5	10	249	620	-371
12+82.47	7.47	7.2	5.5	0.0	2	2	0	249	620	-371
					345	96	477			

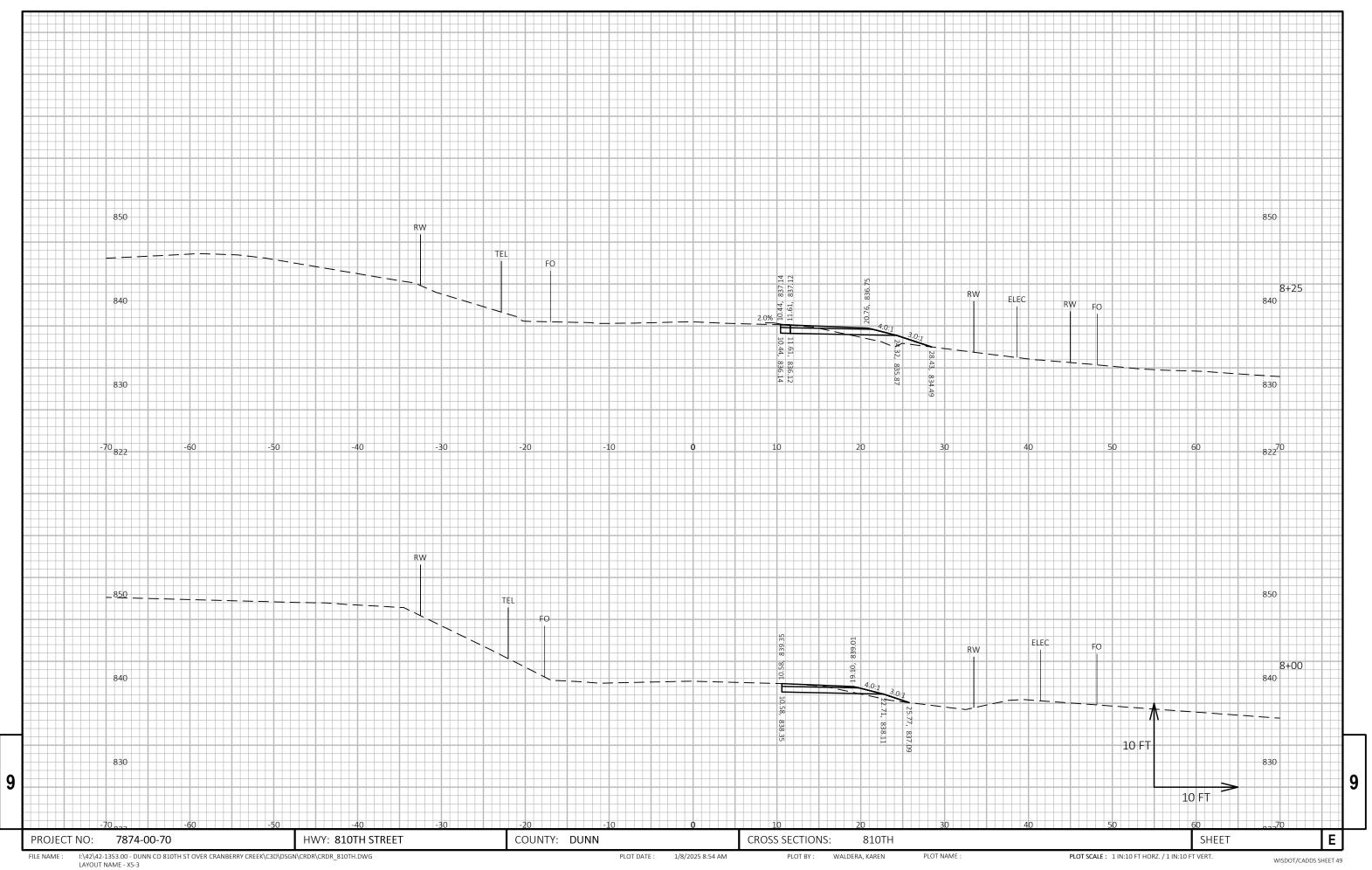
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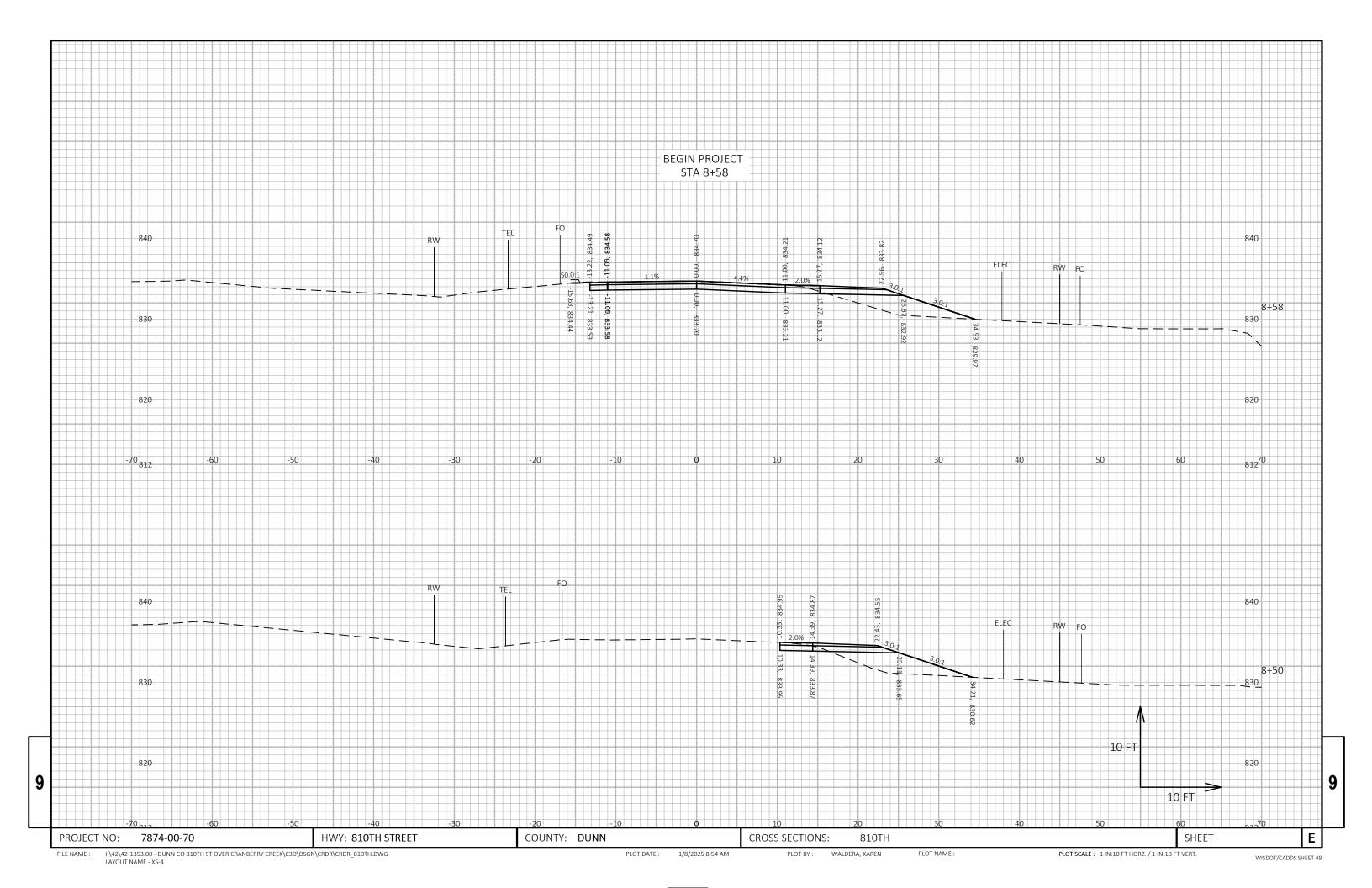
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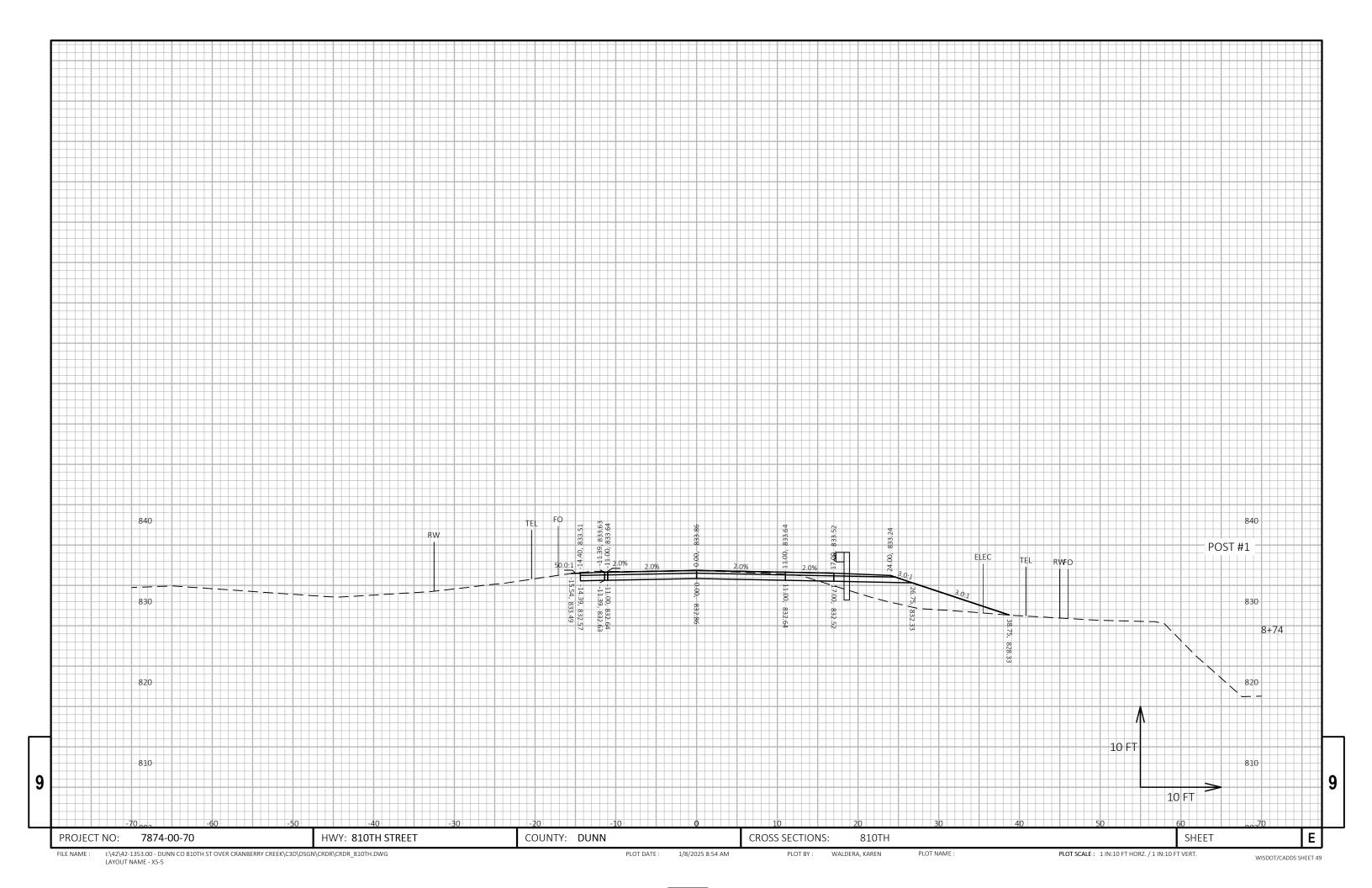
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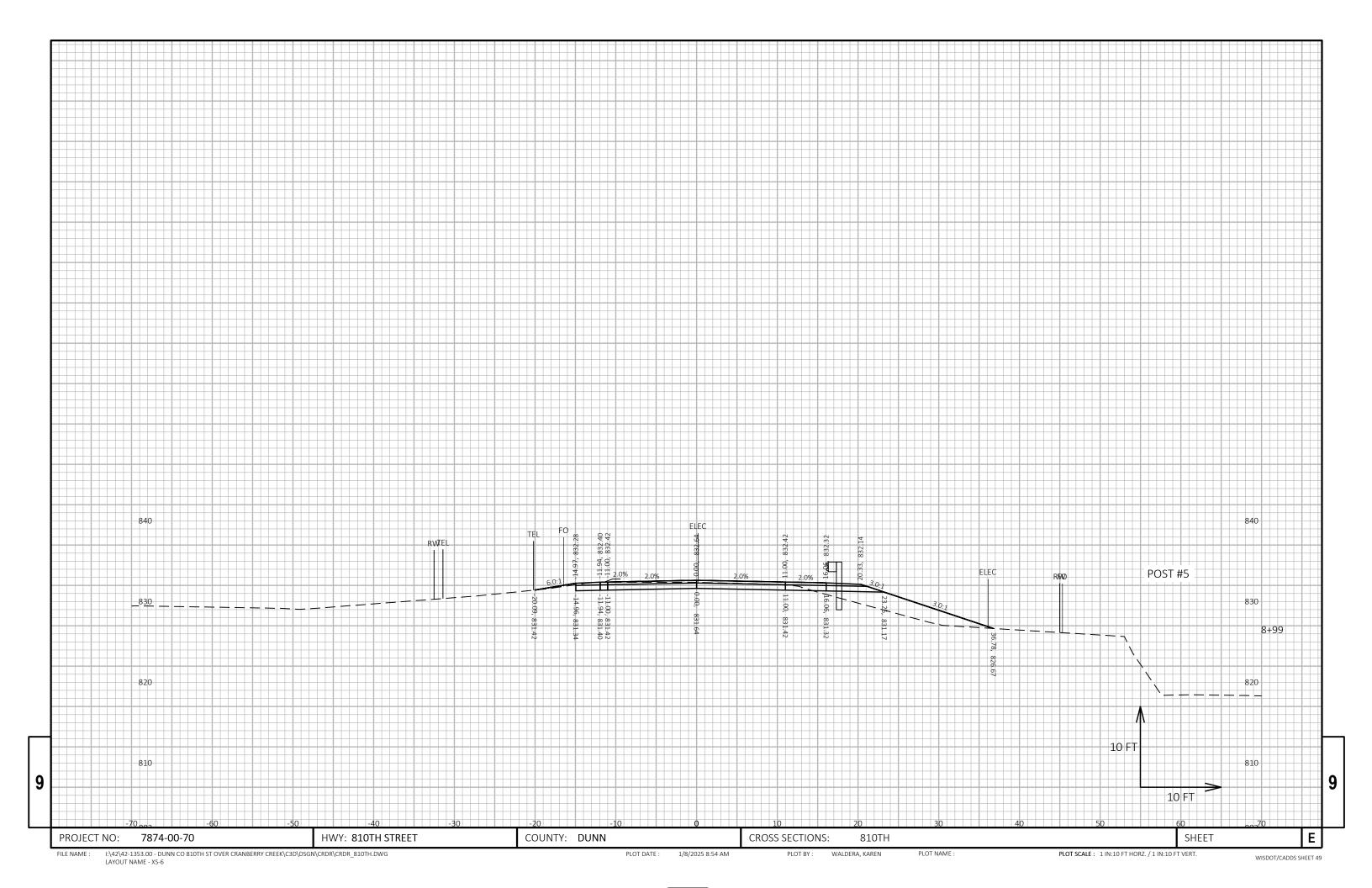


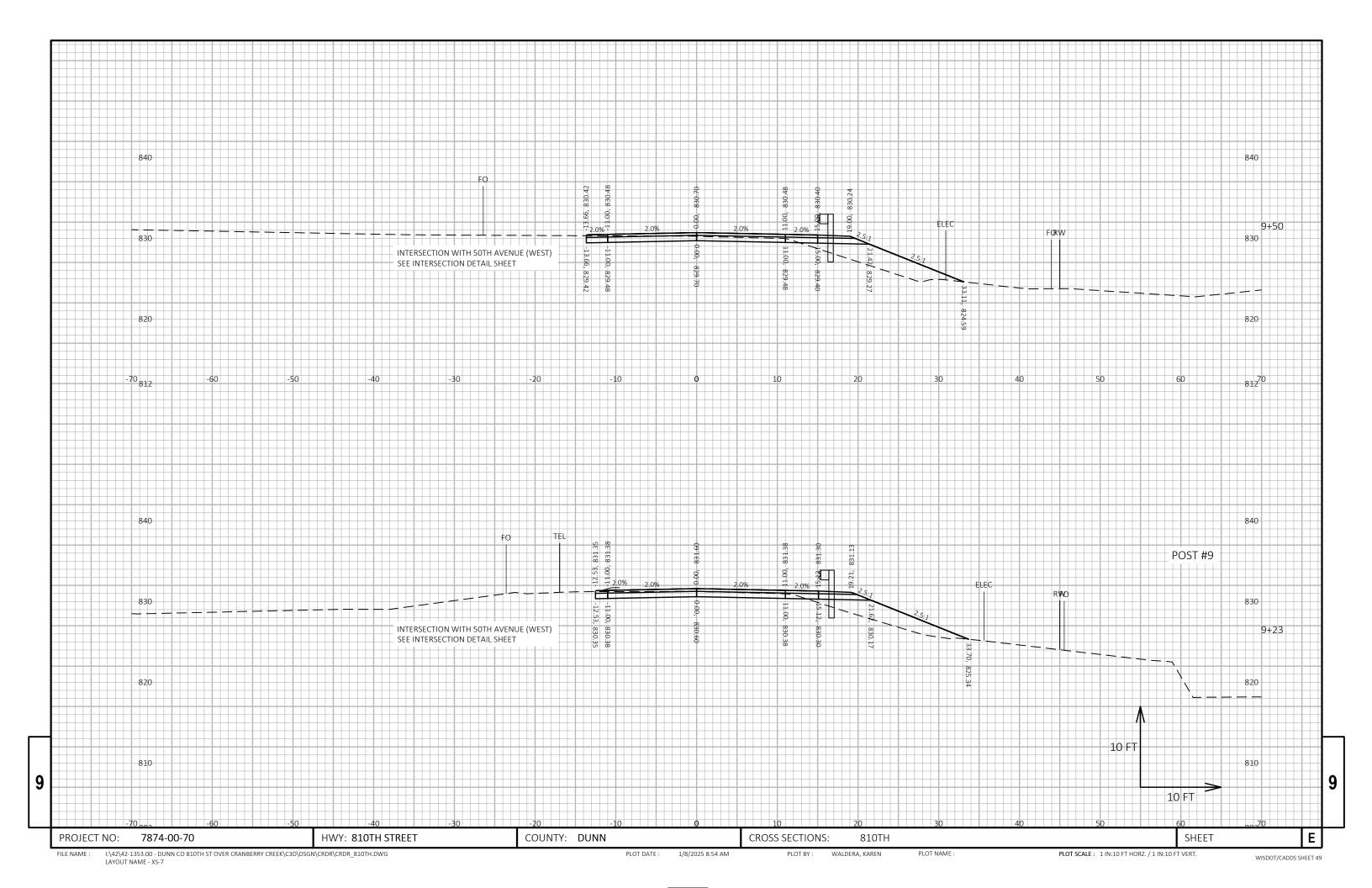


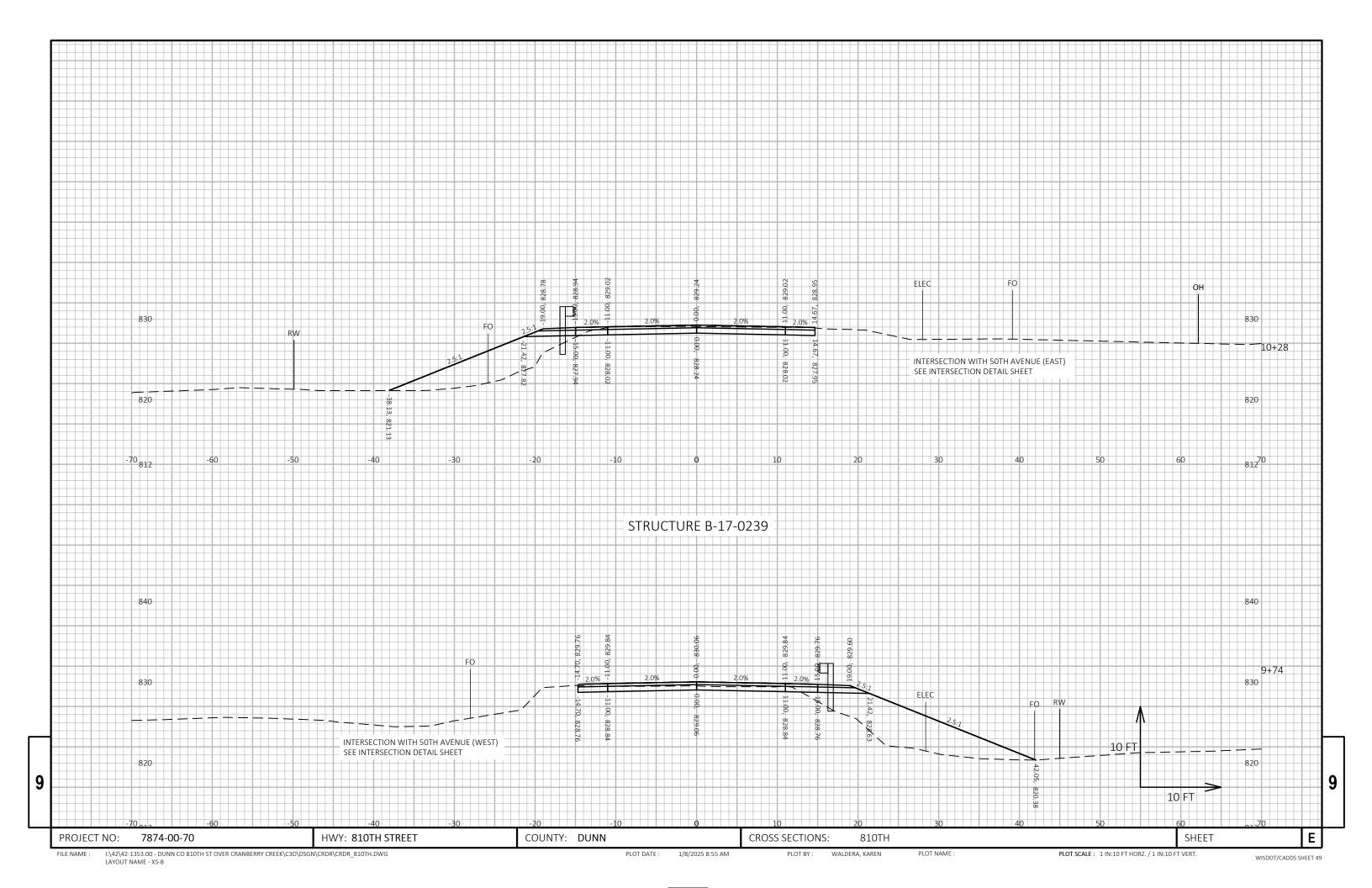


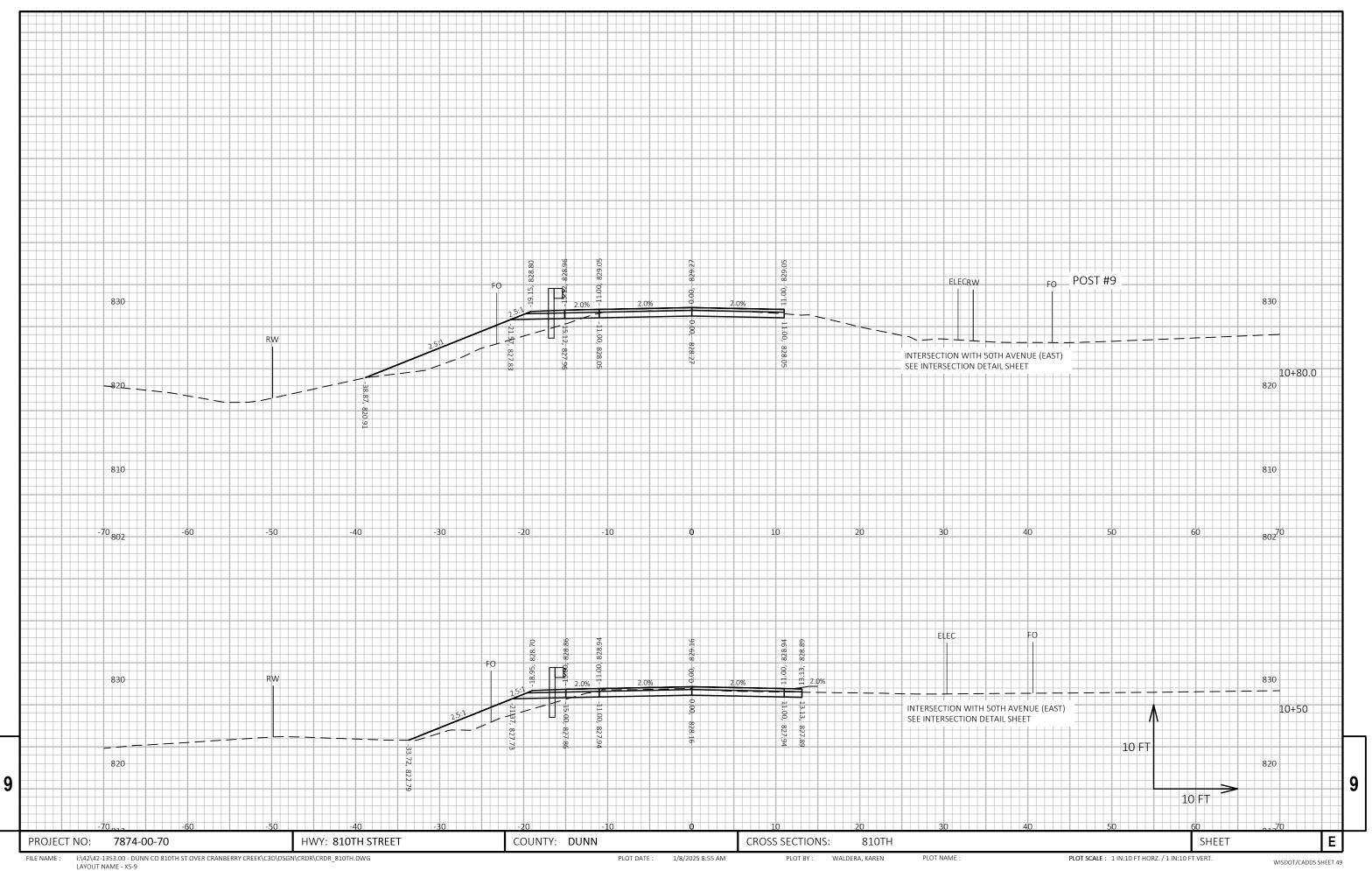




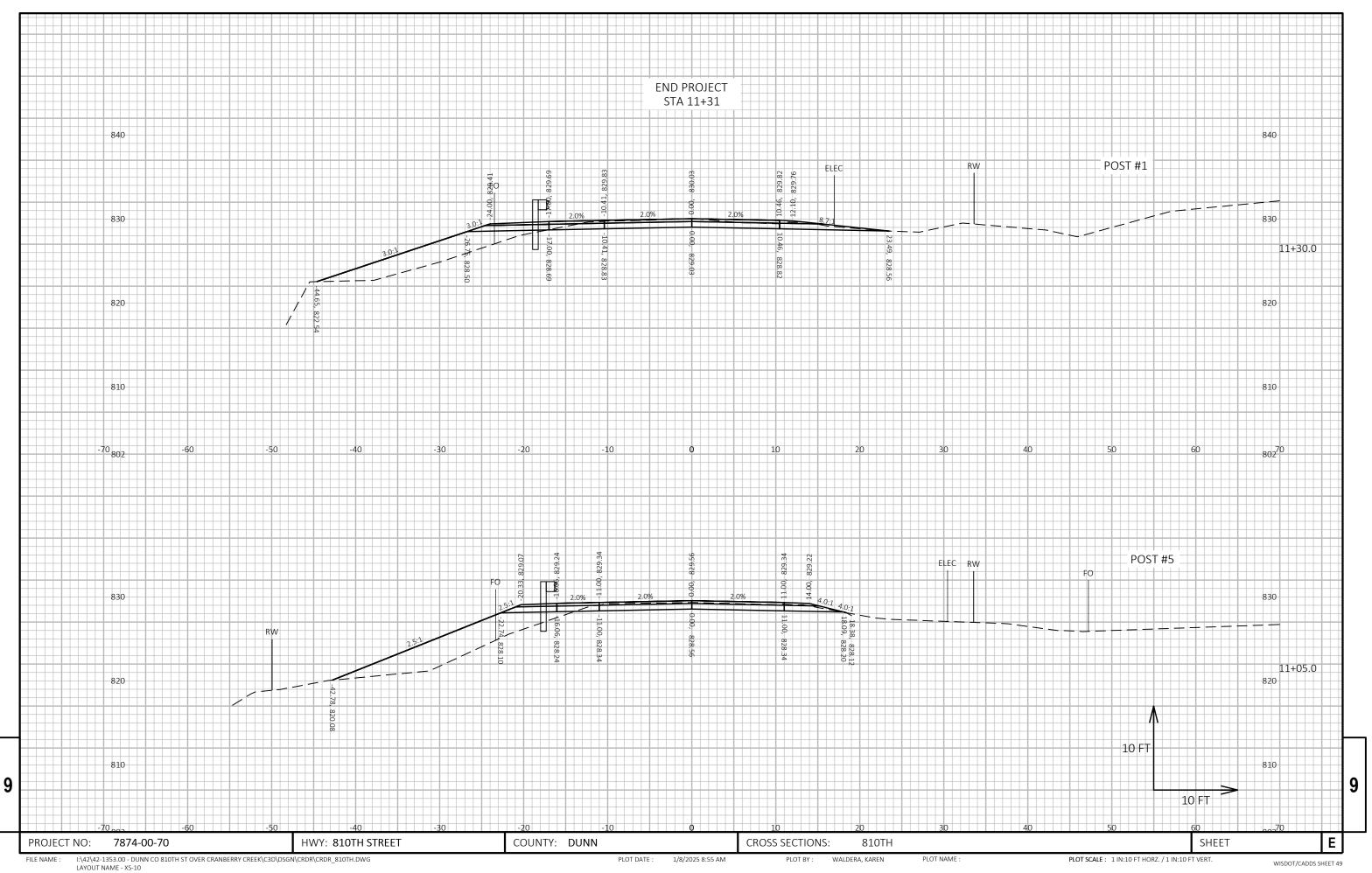




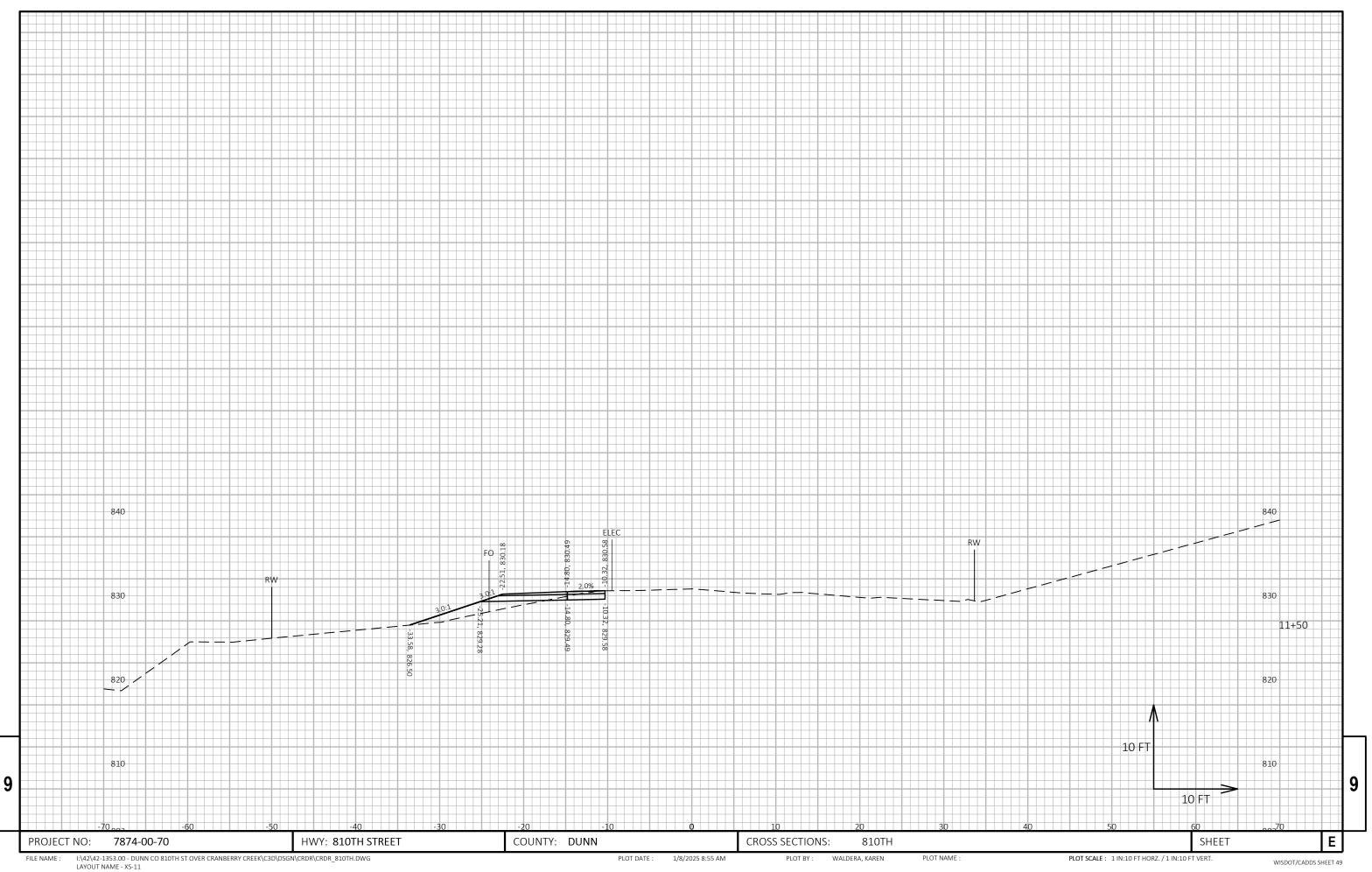




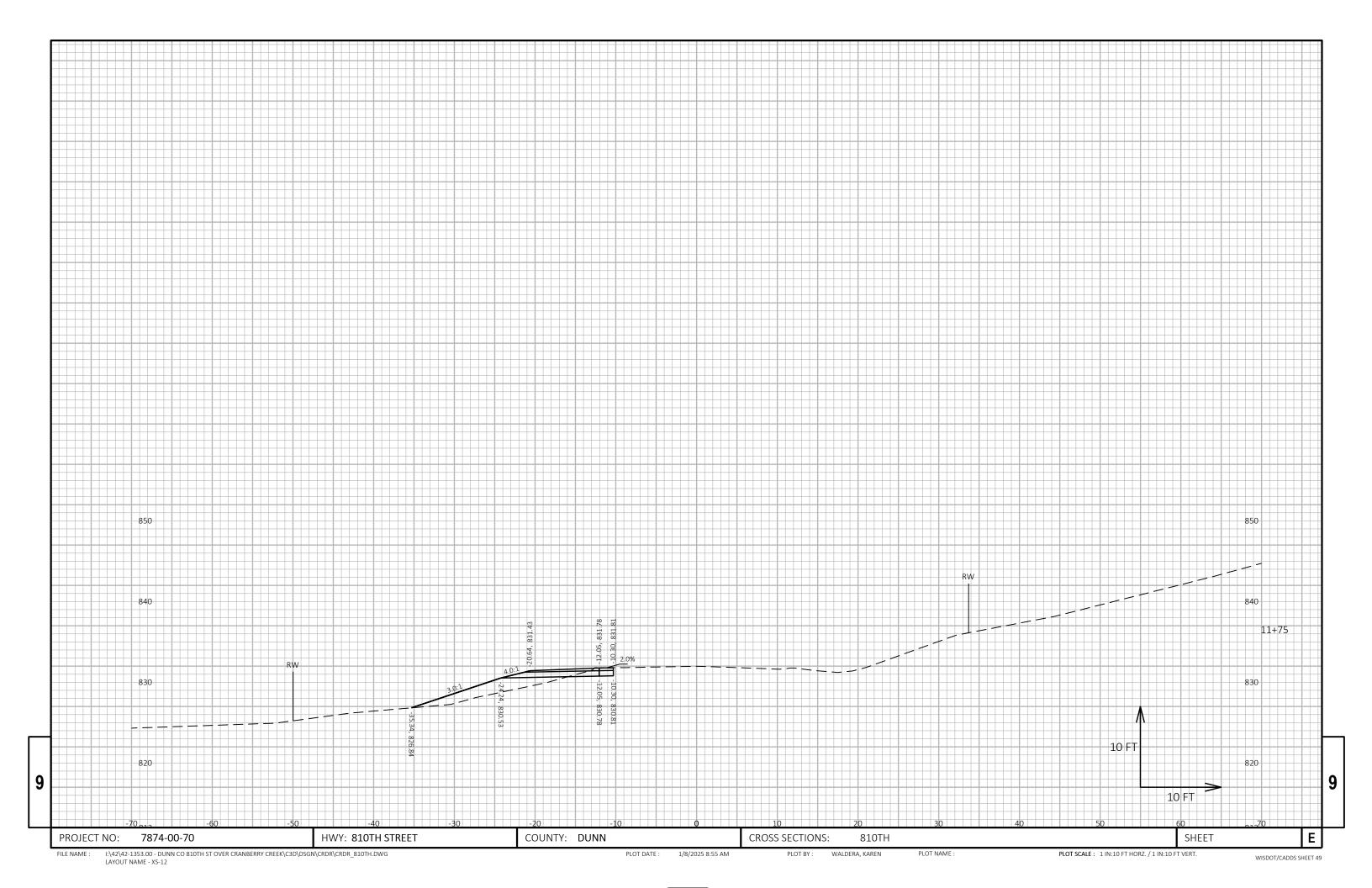
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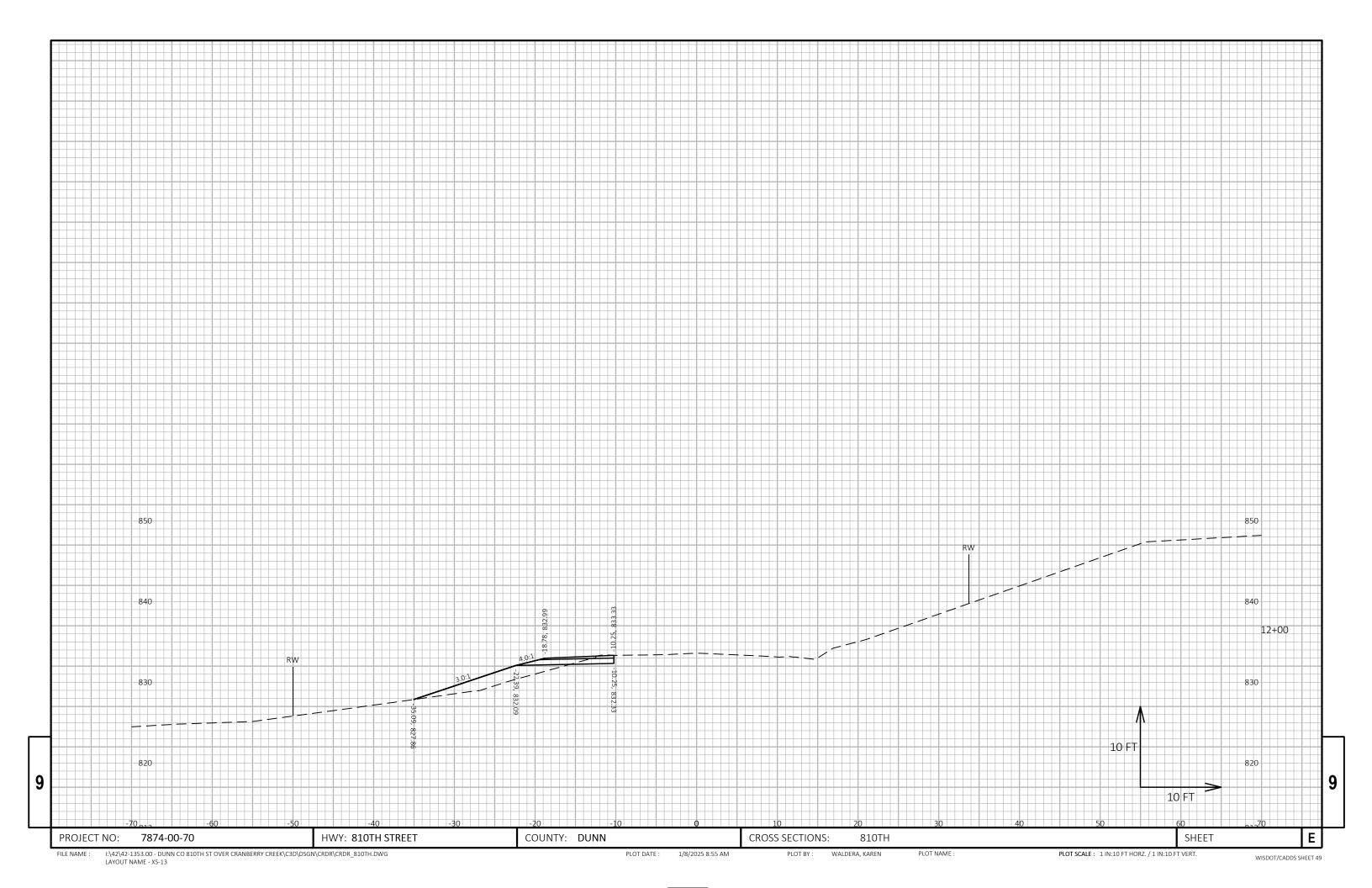


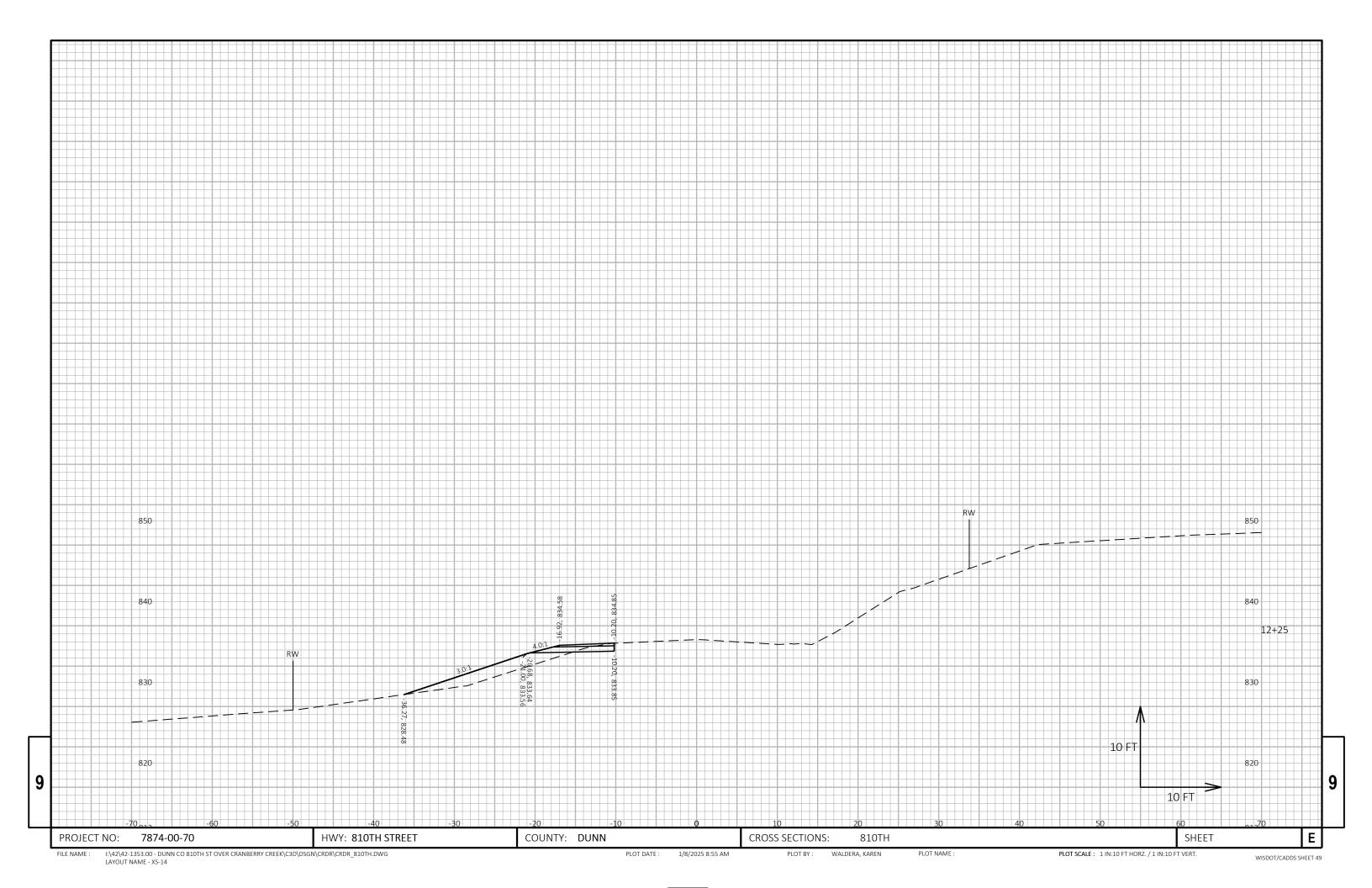
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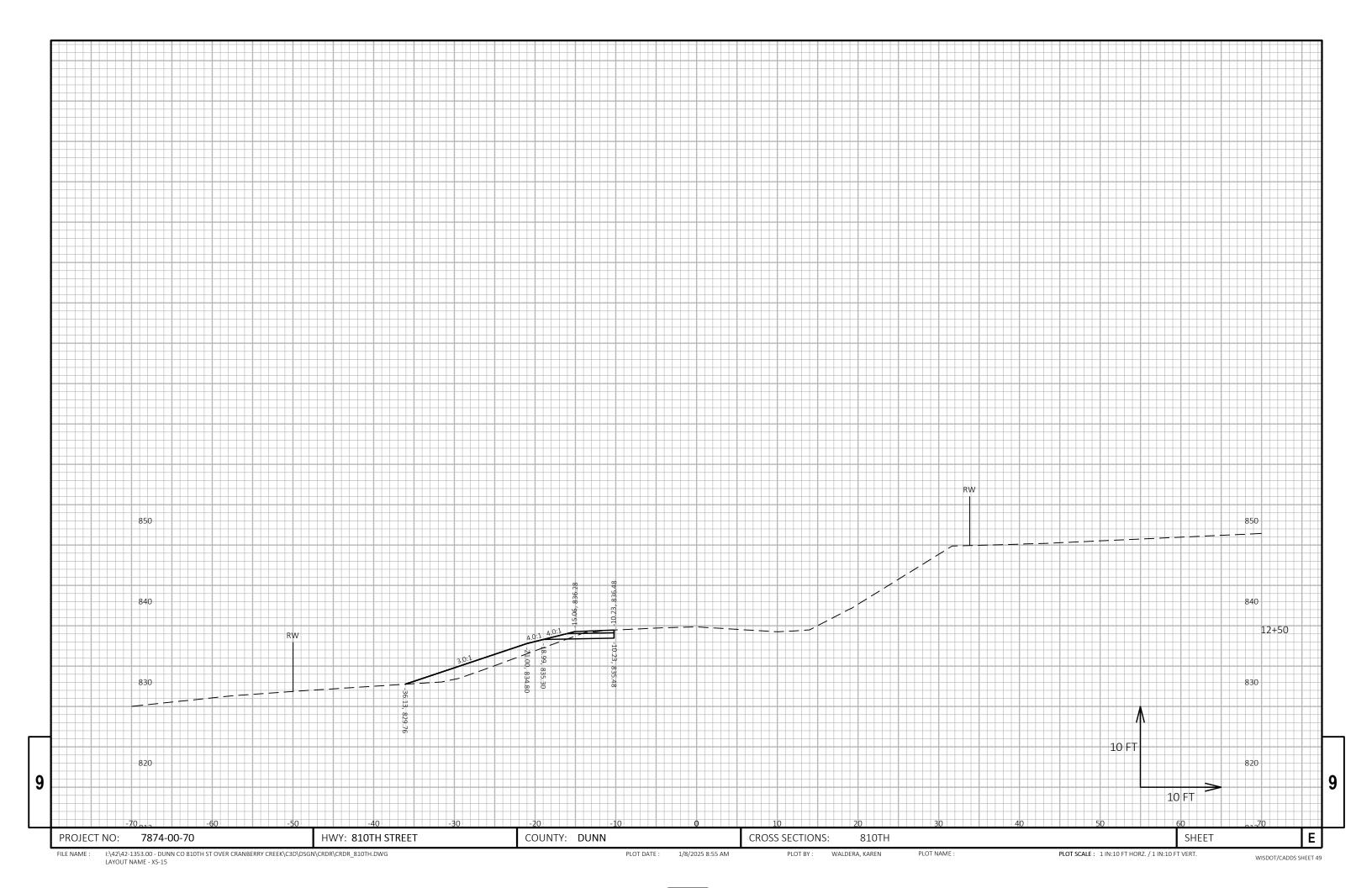


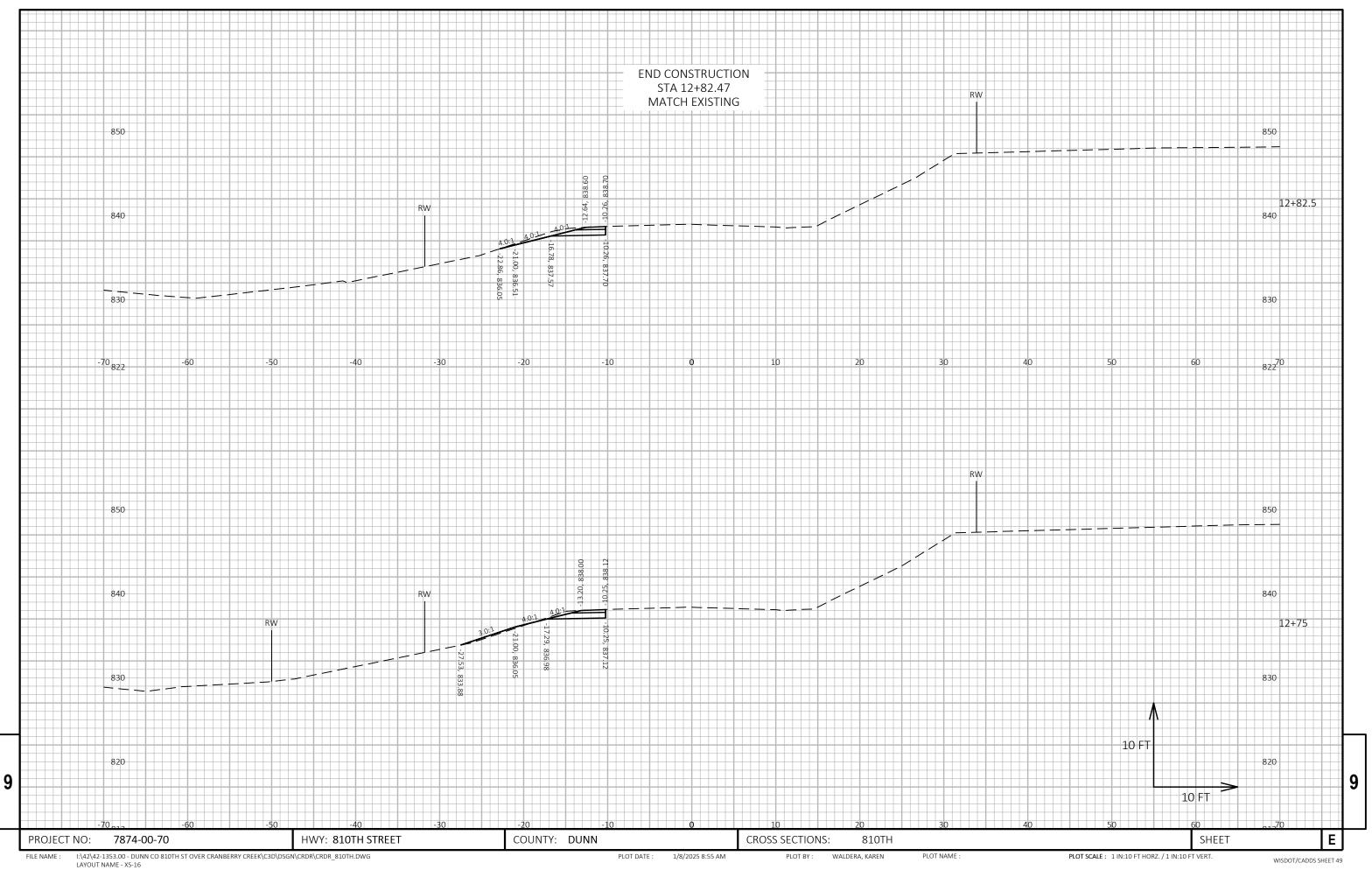
DATOOT NAME - 72-11











Notes



Wisconsin Department of Transportation

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