Section No.

TOTAL SHEETS = 64

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Right of Way Plat

Plan and Profile

Sign Plates

Structure Plans

Cross Sections

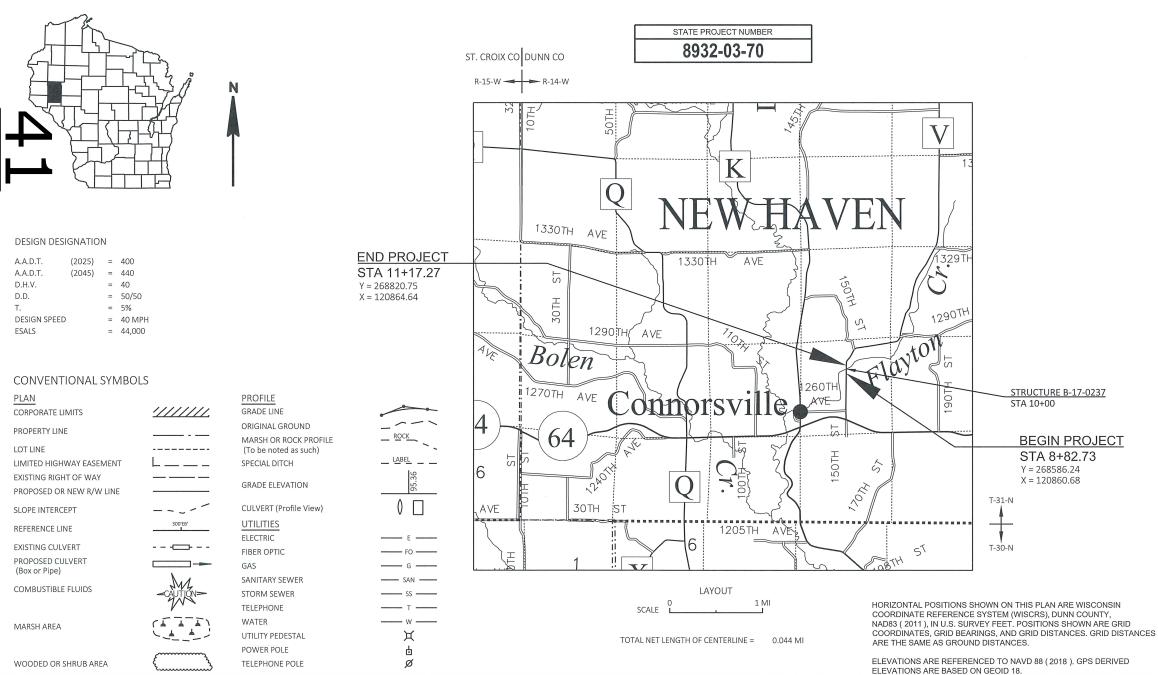
MAY 2025 ORDER OF SHEETS Section No. 1 Title Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STH 64 - RIDGELAND

FLAYTON CREEK BRIDGE B-17-0237

CTH V DUNN COUNTY



	CCEPTED FOR OF DUNN
11 25 2024 (Pate)	(Hijehway Compaissioner)
ORIGINAL	PLANS PREPARED BY
THE THE PERSON NAMED IN TH	ARLEN E. BEAUDETTE E-36829
0.	8/0NAL ENGINEER 1/30/2025
O (Date)	1/30/2025 (Signature)
(Date)	1/30/2025
(Date)	(Signature)

FEDERAL PROJECT

PROJECT

WISC 2025489

CONTRACT

STATE PROJECT

8932-03-70

UTILITIES CONTACTS

DUNN ENERGY COOPERATIVE LOREN LUZINSKI N5725 600TH STREET PO BOX 220 MENOMONIE, WI 54751-0220

EMAIL: loren@dunnenergy.com

PHONE: 715-232-6240

CENTURYLINK KYLE SCHLAMPP 20 S. WILSON AVE. RICE LAKE, WI 54868 PHONE: 715-475-2029 CELL: 715-292-0082 EMAIL: kyle.schlampp@lumen.com

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

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 EITHER MULCHED OR EROSION MATTED AS DIRECTED BY THE ENGINEER.

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

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 ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS OR WATERWAYS.

Dial or (800)242-8511

www.DiggersHotline.com

RUNOFF COEFFICIENT TABLE

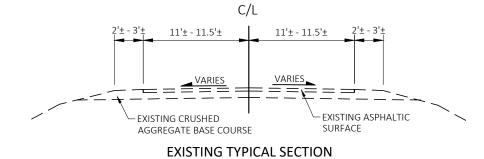
		HYDROLOGIC SOIL GROUP										
		Α			В		С			D		
	SLOPE	RANGE	(PERCENT)	SLOPE	SLOPE RANGE (PERCENT) SI		SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS:	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
NOW CROFS.	.22	.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
MEDIAN STRIFTORF.	.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:	.7595											
GRAVEL ROADS, SHOULDERS:						.40 -	60					

TOTAL PROJECT AREA = <u>0.771</u> ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.505 ACRES

PROJECT NO: 8932-03-70 HWY: CTH V COUNTY: DUNN **GENERAL NOTES** SHEET FILE NAME : I:\42\42-1390.00 - DUNN CO, CTH V OVER FLAYTON CR\C3D\SHEETS\020101-GN.DWG PLOT DATE: 3/10/2025 8:21 AM PLOT BY: WALDERA, KAREN PLOT NAME PLOT SCALE: WISDOT/CADDS SHEET 42

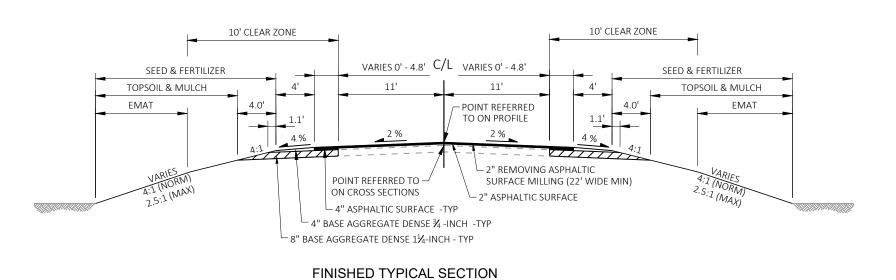




10' CLEAR ZONE 10' CLEAR ZONE SEED & FERTILIZER SEED & FERTILIZER 11'* 11'* TOPSOIL & MULCH TOPSOIL & MULCH POINT REFERRED **EMAT** TO ON PROFILE - 4" ASPHALTIC SURFACE POINT REFERRED TO -2.5:1 (MAX) 2.5:1 (MAX) ON CROSS SECTIONS 8" BASE AGGREGATE DENSE 1 1/4-INCH BASE AGGREGATE FINISHED TYPICAL SECTION ¾ -INCH SHLD. -TYP.

CTH V STA 8+82.73 TO STA 9+82.73 STA 10+17.27 TO STA 11+17.27

*THE ASPHALT SURFACE LANE SHALL TAPER FROM 16.25' WIDE AT THE ENDS OF THE BRIDGE, FOLLOW THE FACE OF GUARDRAIL, THEN TAPER TO 11' WIDE AND MATCH EXISTING AT THE ENDS OF THE PROJECT.



CTH V

STA 8+54.06 TO STA 8+82.73 STA 11+17.27 TO STA 11+67.27

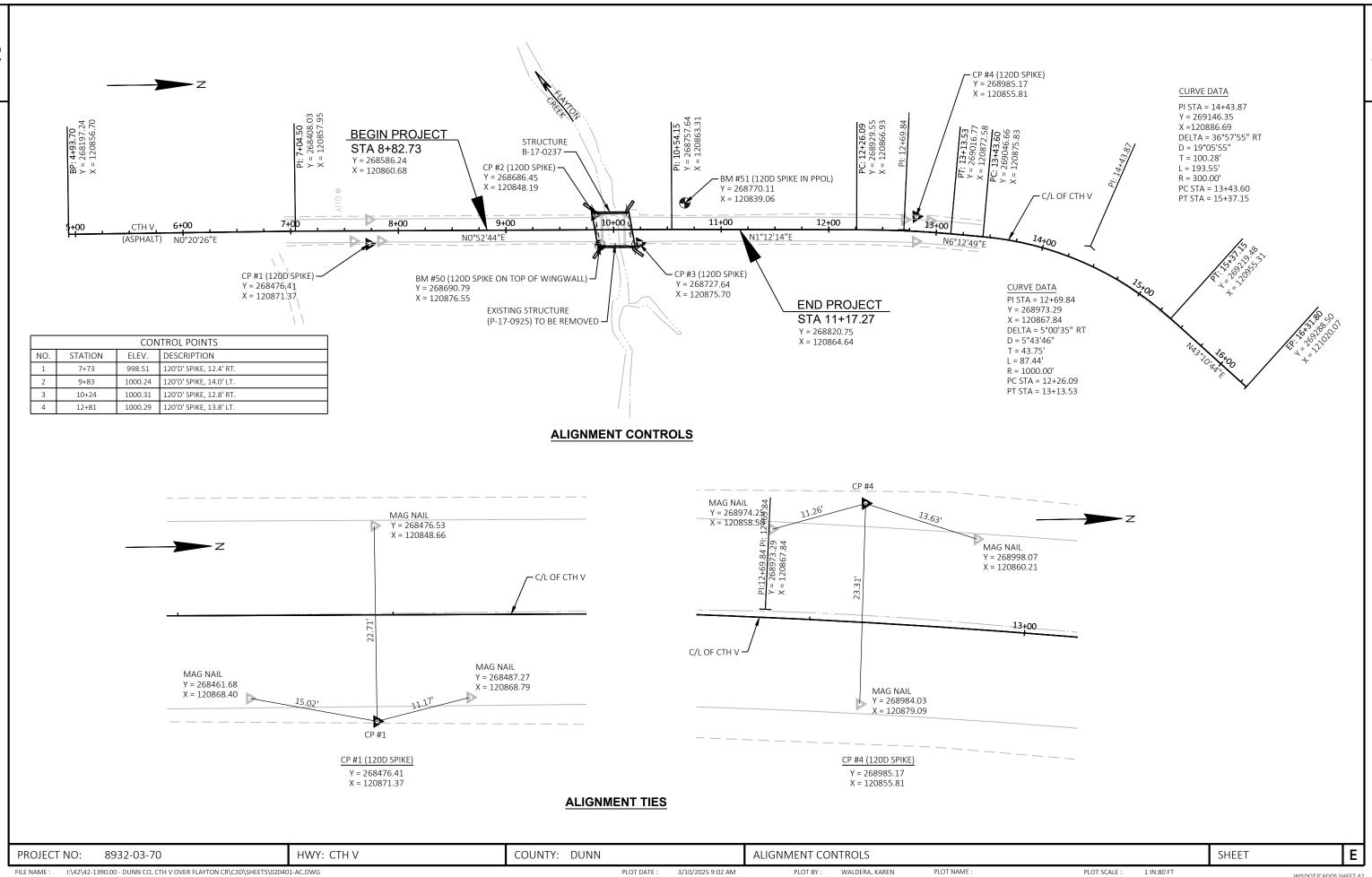
SEED & FERTILIZER C/L VARIES 11' - POINT REFERRED MGS GUARDRAIL (SEE PLAN DETAILS TO ON PROFILE FOR ADDITIONAL INFORMATION) TOPSOIL & MULCH **EMAT** 2.5:1 (MAX) - 4" ASPHALTIC SURFACE - 8" BASE AGGREGATE BASE AGGREGATE DENSE 1 1/4-INCH ¾ -INCH SHLD. -TYP.

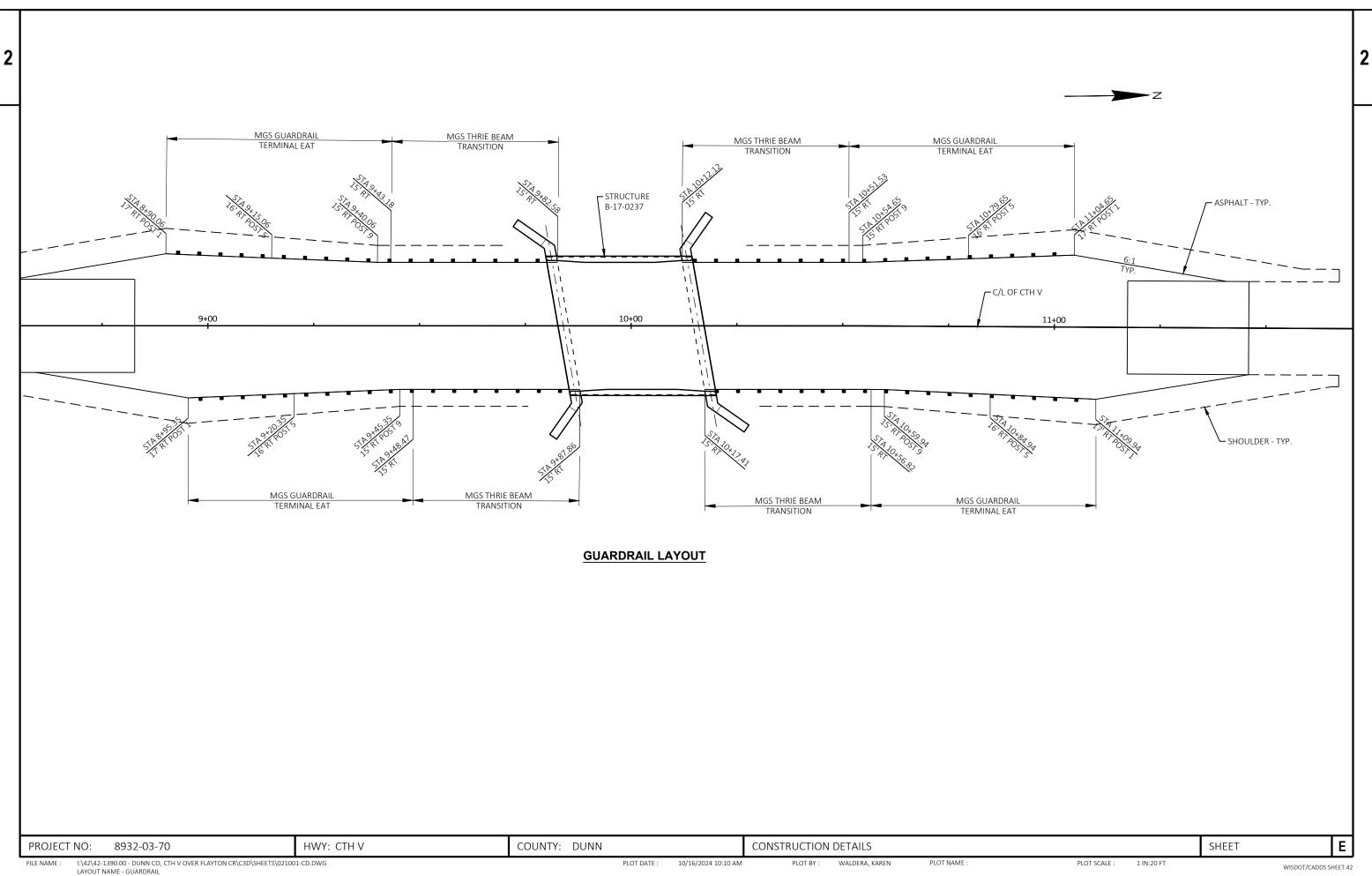
FINISHED TYPICAL HALF SECTION WITH GUARDRAIL

** 4' MIN. (AT BRIDGE) 6' MAX. (AT END TERMINAL)

PROJECT NO: 8932-03-70 HWY: CTH V COUNTY: DUNN TYPICAL SECTIONS SHEET **E**

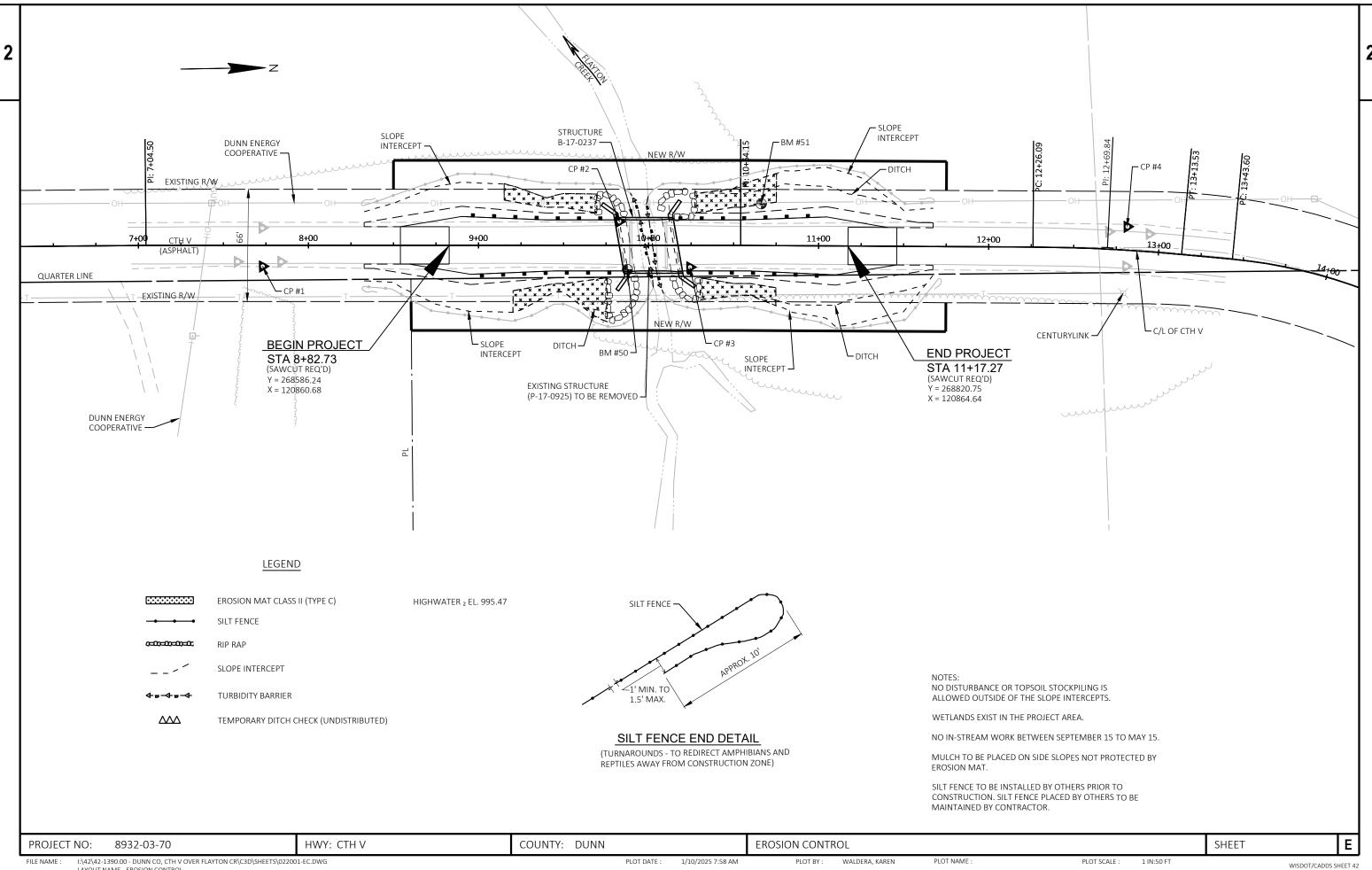
1/10/2025 7:38 AM





1 IN:20 FT

WISDOT/CADDS SHEET 42



LAYOUT NAME - EROSION CONTROL

8932-	$^{\circ}$	70	

					8932-03-70	
Line	Item	Item Description	Unit	Total	Qty	
002	201.0105	Clearing	STA	3.000	3.000	
004	201.0205	Grubbing	STA	3.000	3.000	
06	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-17-0925	EACH	1.000	1.000	
80	204.0115	Removing Asphaltic Surface Butt Joints	SY	50.000	50.000	
10	204.0120	Removing Asphaltic Surface Milling	SY	140.000	140.000	
12	205.0100	Excavation Common	CY	495.000	495.000	
14	205.0508.S	Excavation, Hauling, and Disposal of Potential Creosote Contaminated Soil	TON	104.000	104.000	
16	206.1001	Excavation for Structures Bridges (structure) 01. B-17-0237	EACH	1.000	1.000	
18	210.1500	Backfill Structure Type A	TON	396.000	396.000	
20	213.0100	Finishing Roadway (project) 01. 8932-03-70	EACH	1.000	1.000	
22	305.0110	Base Aggregate Dense 3/4-Inch	TON	80.000	80.000	
24	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	490.000	490.000	
26	455.0605	Tack Coat	GAL	55.000	55.000	
28	465.0105	Asphaltic Surface	TON	190.000	190.000	
30	502.0100	Concrete Masonry Bridges	CY	137.000	137.000	
32	502.3200	Protective Surface Treatment	SY	147.000	147.000	
34	502.3210	Pigmented Surface Sealer	SY	27.000	27.000	
36	505.0400	Bar Steel Reinforcement HS Structures	LB	4,840.000	4,840.000	
38	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	20,510.000	20,510.000	
40	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000	
12	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	800.000	800.000	
4	606.0300	Riprap Heavy	CY	110.000	110.000	
6	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	150.000	150.000	
48	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000	
50	614.2500	MGS Thrie Beam Transition	LF	160.000	160.000	
52	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000	
54	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8932-03-70	EACH	1.000	1.000	
6	619.1000	Mobilization	EACH	1.000	1.000	
58	624.0100	Water	MGAL	22.000	22.000	
60	625.0100	Topsoil	SY	850.000	850.000	
32	627.0200	Mulching	SY	920.000	920.000	
4	628.1504	Silt Fence	LF	945.000	945.000	
6	628.1520	Silt Fence Maintenance	LF	1,890.000	1,890.000	
88	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000	
70	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000	
72	628.2027	Erosion Mat Class II Type C	SY	300.000	300.000	
74	628.6005	Turbidity Barriers	SY	125.000	125.000	
76	628.7504	Temporary Ditch Checks	LF	50.000	50.000	
78	629.0210	Fertilizer Type B	CWT	0.900	0.900	
30	630.0120	Seeding Mixture No. 20	LB	56.000	56.000	
32	630.0200	Seeding Temporary	LB	33.000	33.000	
4	630.0500	Seed Water	MGAL	28.000	28.000	
6	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000	
8	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0	638.2102	Moving Signs Type II	EACH	2.000	2.000	
2	638.2602	Removing Signs Type II	EACH	4.000	4.000	
94	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
96	638.4000	Moving Small Sign Supports	EACH	2.000	2.000	
98	642.5001	Field Office Type B	EACH	1.000	1.000	

Estimate Of Quantities

8932-03-70

Page 2

Item	Item Description	Unit	Total	(
643.0420	Traffic Control Barricades Type III	DAY	1,728.000	1,72

					-
Line	Item	Item Description	Unit	Total	Qty
0100	643.0420	Traffic Control Barricades Type III	DAY	1,728.000	1,728.000
0102	643.0705	Traffic Control Warning Lights Type A	DAY	2,304.000	2,304.000
0104	643.0900	Traffic Control Signs	DAY	1,152.000	1,152.000
0106	643.5000	Traffic Control	EACH	1.000	1.000
0108	645.0111	Geotextile Type DF Schedule A	SY	96.000	96.000
0110	645.0120	Geotextile Type HR	SY	240.000	240.000
0112	646.1020	Marking Line Epoxy 4-Inch	LF	365.000	365.000
0114	650.4500	Construction Staking Subgrade	LF	300.000	300.000
0116	650.5000	Construction Staking Base	LF	300.000	300.000
0118	650.6501	Construction Staking Structure Layout (structure) 01. B-17-0237	EACH	1.000	1.000
0120	650.9911	Construction Staking Supplemental Control (project) 01. 8932-03-70	EACH	1.000	1.000
0122	650.9920	Construction Staking Slope Stakes	LF	300.000	300.000
0124	690.0150	Sawing Asphalt	LF	44.000	44.000
0126	715.0502	Incentive Strength Concrete Structures	DOL	822.000	822.000
0128	999.2005.S	Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000
0130	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0132	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

3

CLEARING AND GRUBBING

					201.0105	201.0205
					CLEARING	GRUBBING
	STATION	TO	STATION	LOCATION	STA	STA
_						
	9+00	-	12+00	CTH V	3	3
				TOTAL 0010	3	3
					-	•

NOTE: CUTTING OF TREES TO BE DONE PRIOR TO CONSTRUCTION BY OTHERS. CLEAR CUT TREES.

CTH V EARTHWORK SUMMARY

From/To Station	Location	Excavation Common (1) 205.0100 Cut	Salvaged / Unuseable Pavement Material (5)	Unexpanded Fill	Expanded Fill (2) Factor 1.30	Mass Ordinate +/- (3)	Waste
8+32.73-9+82.73	CTH V	206	42	116	150	13	13
10+17.27 - 11+67.27	CTH V	289	42	76	99	148	148
	TOTAL	495	_	192	249		161

- 1) Excavation Common is the Cut. Item number 205.0100.
- 2) Expanded Fill. Factor = 1.30; Expanded Fill = Unexpanded Fill * Fill Factor
- $3) The \, Mass \, Ordinate + or \, \, Qty \, calculated \, for \, the \, Division. \, Plus \, quantity \, indicates \, an \, excess \, of \, material \, on \, the \, project.$
- 4) All quantities shown in CY.
- 5) Salvaged/unuseable pavement material

REMOVING ASPHALTIC SURFACE MILLING

				204.0115	204.0120
				REMOVING	REMOVING
				ASPHALTIC	ASPHALTIC
				SURFACE BUTT	SURFACE
				JOINTS	MILLING
STATION	TO	STATION	LOCATION	SY	SY
8+54.06	-	8+82.73	CTH V	25	70
11+17.67	-	11+45.97	CTH V	25	70
			TOTAL 0010	50	140

EXCAVATION, HAULING, AND DISPOSAL OF POTENTIAL

CREOSOTE CONTAMINATED SOIL

LOCATION

P-17-0925

TOTAL 0010

STATION

10+00

205.0508.S
EXCAVATION, HAULING, AND
DISPOSAL OF POTENTIAL
CREOSOTE CONTAMINATED
SOIL

TON

104

FINISHING ROADWAY

	213.0100.01						305.0110	305.0120 BASE
	FINISHING						BASE	AGGREGATE
	ROADWAY						AGGREGATE	DENSE 1 1/4-
	(PROJECT) (01.						DENSE 3/4-INCH	INCH
	8932-03-70)	<u>-</u>	STATION	TO	STATION	LOCATION	TON	TON
PROJECT	EACH							
			8+32.73	-	9+82.73	CTH V	40	245
8932-03-70	1		10+17.27	-	11+67.27	CTH V	40	245
TOTAL 0010	1					TOTAL 0010	80	490

ASPHALTIC SURFACE

					455.0605 TACK COAT	465.0105 ASPHALTIC SURFACE
-	STATION	TO	STATION	LOCATION	GAL	TON
	8+54.06	-	8+82.73	CTH V	5	20
	8+82.73	-	9+82.73	CTH V	25	85
	10+17.27	-	11+17.27	CTH V	25	85
	11+17.27	-	11+45.97	CTH V	5	20
				TOTAL 0010	55	190

MGS GUARDRAIL

BASE AGGREGATE DENSE

				614.2500	614.2610
				MGS THRIE	
				BEAM	MGS GUARDRAIL
				TRANSITION	TERMINAL EAT
STATION	TO	STATION	LOCATION	LF	EACH
8+90.06	-	9+82.58	LT, CTH V	40	1
8+95.35	-	9+87.86	RT, CTH V	40	1
10+12.12	-	11+04.65	LT, CTH V	40	1
10+17.41	-	11+09.94	RT, CTH V	40	1
			_		
			TOTAL 0010	160	4

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 8932-03-70 HWY: CTH V COUNTY: DUNN MISCELLANEOUS QUANTITIES SHEET E

MAINTENANCE AND REPAIR OF HAUL ROADS

EROSION CONTROL ITEMS

		618.0100.01 MAINTENANCE AND	MOBILIZA					628.1504* SILT FENCE	628.1520 SILT FENCE MAINTENANCE	628.2027 EROSION MAT CLASS II TYPE C	628.6005 TURBIDITY BARRIERS	628.7504 TEMPORARY DITCH CHECKS
		REPAIR OF HAUL		619.1000 MOBILIZATION	STATION	TO STATION	LOCATION	LF	LF	SY	SY	LF
		ROADS (PROJECT)	LOCATION	EACH								_
		(01.8932-03-70)			8+32.73	- 10+00	LT, CTH V	175	350	50	50	-
CATEGORY	LOCATION	EACH	PROJECT LIMITS	1	8+32.73	- 10+00	RT, CTH V	200	400	75	30	-
					10+00	- 11+67.27	LT, CTH V	190	380	70	Γ0	-
0030	PROJECT LIMITS	1	TOTAL 0010	1	10+00	- 11+67.27	RT, CTH V	190	380	45	50	-
							UNDISTRIBUTED	190	380	60	25	50
	TOTAL 0030	1										
							TOTAL 0010	945	1,890	300	125	50

^{*} QUANTITY FOR INFORMATION ONLY. EXCLUSION SILT FENCE TO BE INSTALLED BY OTHERS PRIOR TO CONSTRUCTION. SILT FENCE PLACED BY OTHERS TO BE MAINTAINED BY CONTRACTOR.

RESTORATION ITEMS

WAI	<u>EK</u>					625.0100	627.0200	629.0210	630.0120	630.0200	630.0500
	624.0100					TOPSOIL	MULCHING	FERTILIZER TYPE B	SEEDING MIXTURE NO. 20	SEEDING TEMPORARY	SEED WATER
LOCATION	WATER MGAL	STATION	TO	STATION	LOCATION	SY	SY	CWT	LB	LB	MGAL
COMPACTION	9	8+32.73	-	10+00	CTH V	280	320	0.3	20	12	10
DUST CONTROL	13	10+00	-	11+67.27	CTH V	400	415	0.4	26	16	13
2001001111102	10		-		UNDISTRIBUTED	170	185	0.2	10	5	5
TOTAL 0010	22				TOTAL 0010	850	920	0.9	56	33	28

SIGNS TYPE II

							634.0614	637.2230	638.2102	638.2602	638.3000	638.4000	
MOBILIZA	TIONS EROSION CO	ONTROL					POSTS WOOD 4X6-INCH X 14-	SIGNS TYPE II	MOVING SIGNS	REMOVING SIGNS	REMOVING SMALL SIGN	MOVING SMALL	
	628.1905	628.1910			SIGN	SIGN SIZE	FT	REFLECTIVE F	TYPEII	TYPEII	SUPPORTS	SIGN SUPPORTS	
		MOBILIZATIONS	STATION	LOCATION	CODE	(INCHES)	EACH	SF	EACH	EACH	EACH	EACH	REMARKS
	MOBILIZATIONS	EMERGENCY											
	EROSION	EROSION	9+76	RT	-	-	-	-	1	-	-	1	FLAYTON CREEK SIGN
	CONTROL	CONTROL	9+78	LT	W5-52L	12x36	1	3	-	1	1	-	BRIDGE HASH MARKER SIGN
LOCATION	EACH	EACH	9+84	RT	W5-52R	12x36	1	3	-	1	1	-	BRIDGE HASH MARKER SIGN
			10+15	LT	W5-52R	12x36	1	3	-	1	1	-	BRIDGE HASH MARKER SIGN
PROJECT LIMITS	4	4	10+21	RT	W5-52L	12x36	1	3	-	1	1	-	BRIDGE HASH MARKER SIGN
			10+23	LT	-	-	-	-	1	-	-	1	FLAYTON CREEK SIGN
TOTAL 0010	4	4											1
				TOTAL 0010			4	12	2	4	4	2	

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 8932-03-70	HWY: CTH V	COUNTY: DUNN	MISCELLANEOUS QUANTITIES	SHEET	E
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FIELD	OFFICE	TYPE B

HOCATION

PROJECT LIMITS

TOTAL 0010

642.5001
FIELD OFFICE
TYPE B
EACH

1

TOTAL 0010

1

CONSTRUCTION STAKING

STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE	650.5000 CONSTRUCTION STAKING BASE	650.9920 CONSTRUCTION STAKING SLOPI STAKES
STATION	TO	STATION	LOCATION	LF	LF	LF
8+32.73	-	9+82.73	CTH V	150	150	150
10+17.27	-	11+67.27	CTH V	150	150	150
			TOTAL 0010	300	300	300

TRAFFIC CONTROL

			643.0420		643.0705		643.0900	643.5000
			TRAFFIC		TRAFFIC			
			CONTROL		CONTROL		TRAFFIC	
			BARRICADES		WARNING		CONTROL	TRAFFIC
	DURATION		TYPEIII		LIGHTS TYPE A		SIGNS	CONTROL
LOCATION	DAYS	EACH	DAY	EACH	DAY	EACH	DAY	EACH
PER SDD 15C02	80	18	1,440	24	1,920	12	960	1
UNDISTRIBUTED			288		384		192	-
TOTAL 0010			1,728	_	2,304		1,152	1

CONSTRUCTION STAKING STRUCTURE LAYOUT

			650.6501.01
			CONSTRUCTION
			STAKING STRUCTURE
			LAYOUT (STRUCTURE)
			(01. B-17-0237)
CATEGORY	STATION	LOCATION	EACH
0020	10+00	CTH V	1
		TOTAL 0020	1

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL

	650.9911.01
	CONSTRUCTION STAKING
	SUPPLEMENTAL CONTROL
	(PROJECT) (01. 8932-03-70)
PROJECT	EACH
8932-03-70	1
TOTAL 0010	1

MARKING LINE EPOXY 4-INCH

						646.1020
						MARKING LINE
						EPOXY 4-INCH
_	STATION	TO	STATION	LOCATION	COLOR/DESCRIPTION	LF
	8+54.06	-	11+45.97	CTH V	YELLOW DASHED & SOLID CENTERLINE	365
				TOTAL 0010		365

SAWING ASPHALT

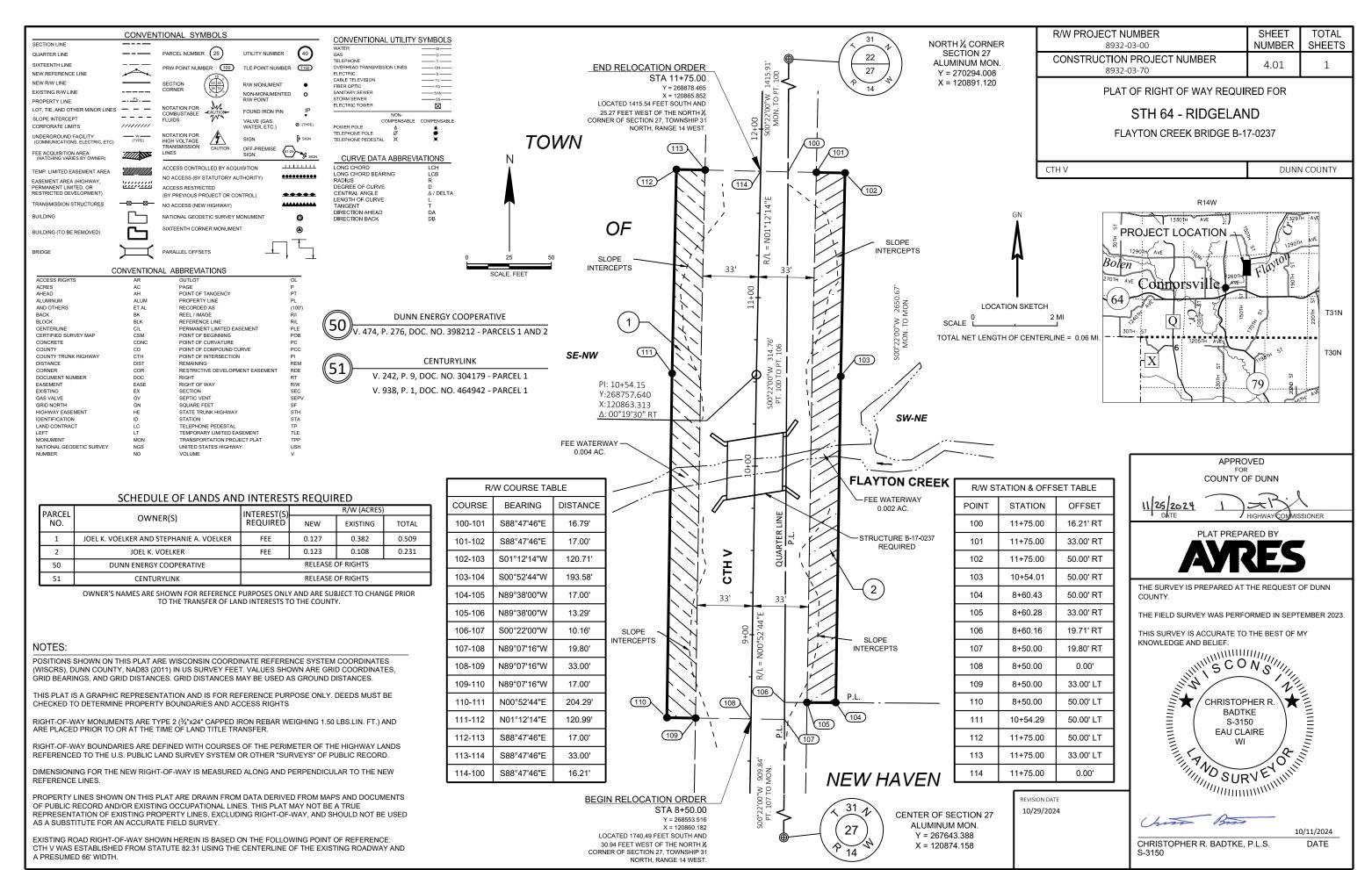
		690.0150 SAWING ASPHALT
STATION	LOCATION	LF
8+82.73	CTH V	22
11+17.27	CTH V	22
	TOTAL 0010	44

MAINTAINING BIRD DETERRENT SYSTEM

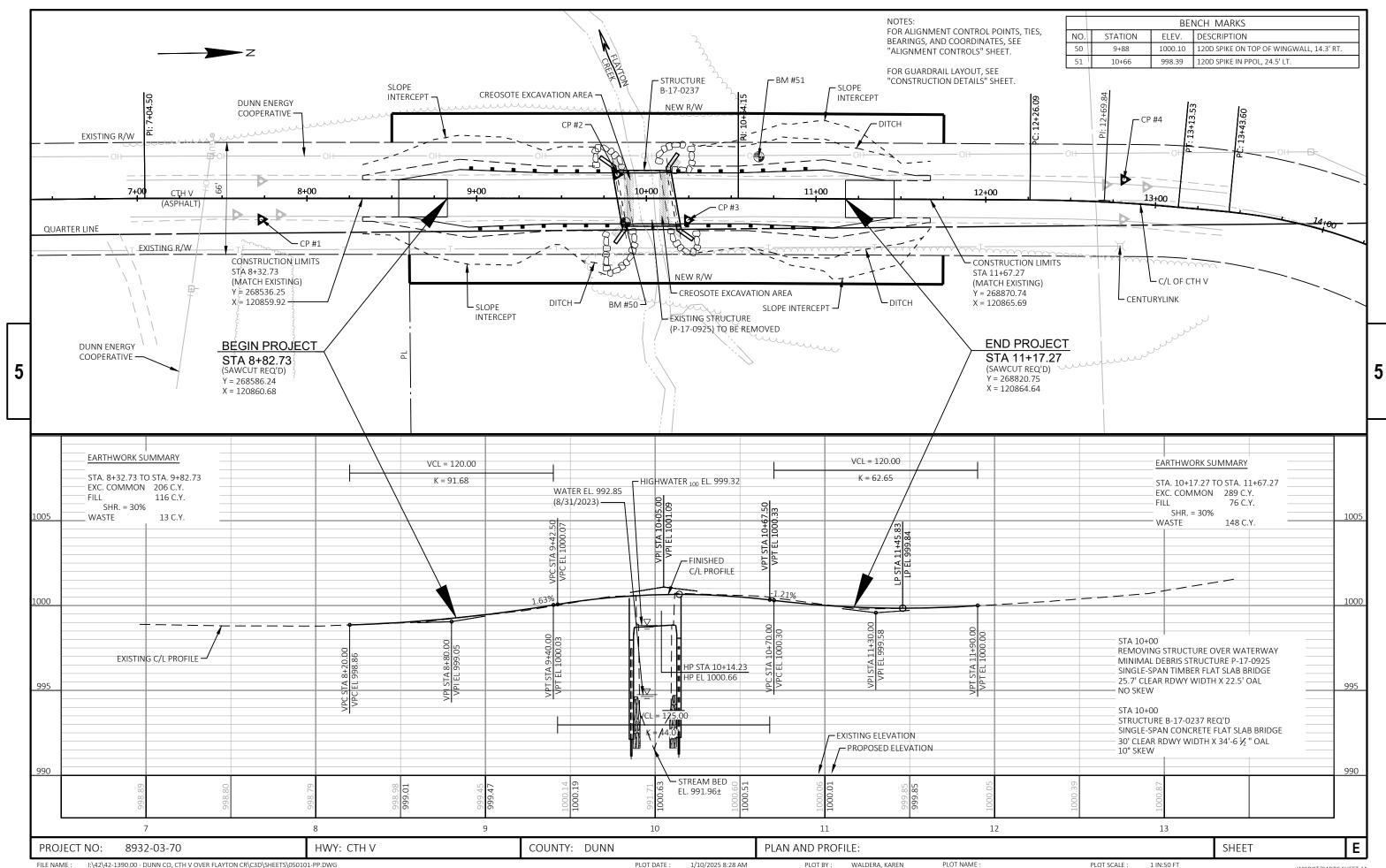
		MAINTAINING BIRD DETERRENT
		SYSTEM (STATION)
		(01.10+00)
STATION	LOCATION	EACH
10+00	P-17-0925	1
	TOTAL 0010	1

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 8932-03-70 HWY: CTH V COUNTY: DUNN MISCELLANEOUS QUANTITIES SHEET E



PLOT BY: BADTKE, CHRISTOPHER



Standard Detail Drawing List

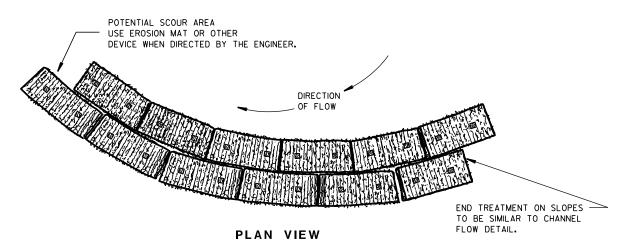
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
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)
14B45-05D	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
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS

6

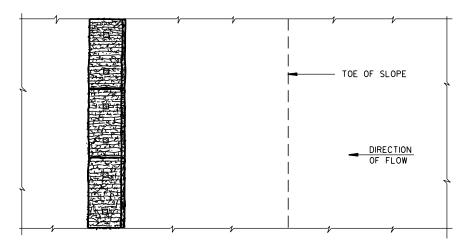
GENERAL NOTES

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.

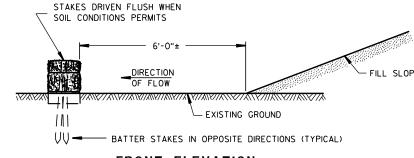
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



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

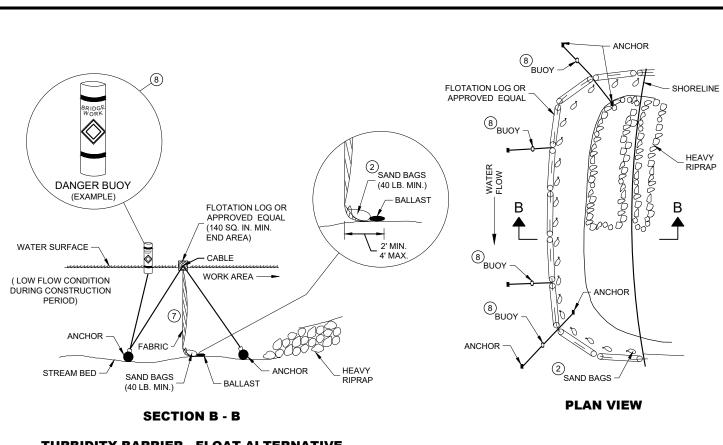
(WHEN REQUIRED BY THE ENGINEER)



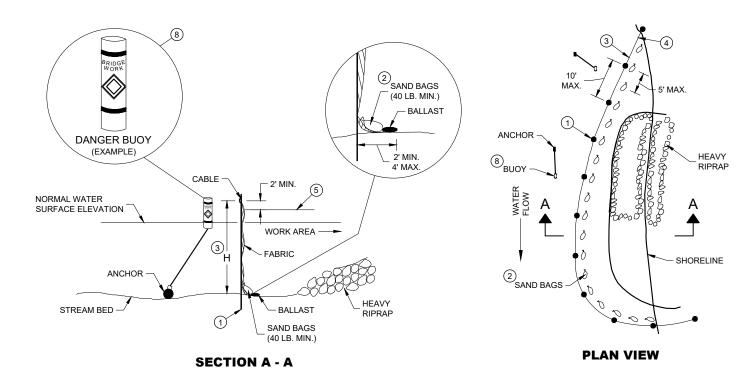
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D.D. 8 E 9-6



TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6



TURBIDITY BARRIER - STANDARD POST INSTALLATION

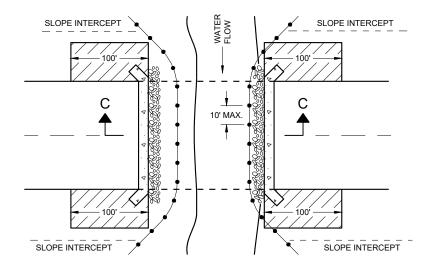
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

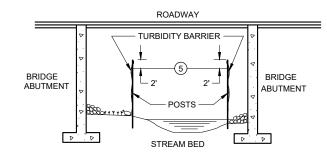
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH
- (2) SAND BAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT "H" EXCEEDS 8 FEET, POST SPACING MAY NEED TO BE DECREASED.
- (4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C - C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ∞

APPROVED /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT
ENGINEER 6/4/02 DATE





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

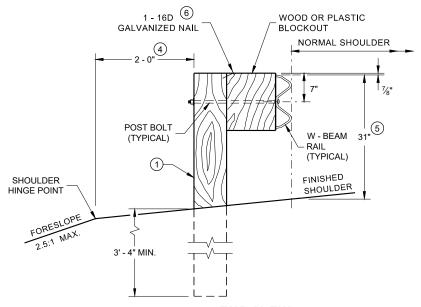
3/26/IO /S/ Scot Becker

DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

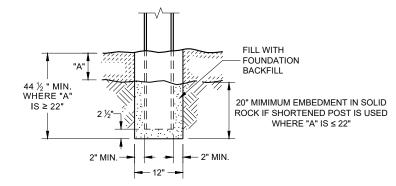
.D.D. 12 A

3-10

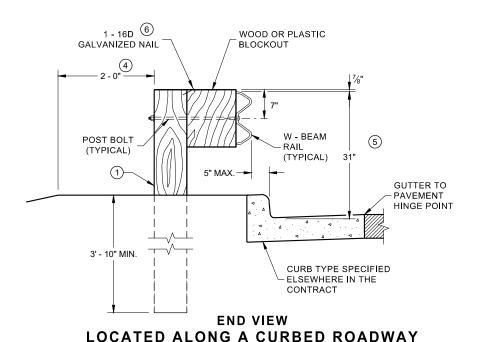
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES 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).
- $\fill \ensuremath{\texttt{5}}$ 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.
- \bigcirc TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".

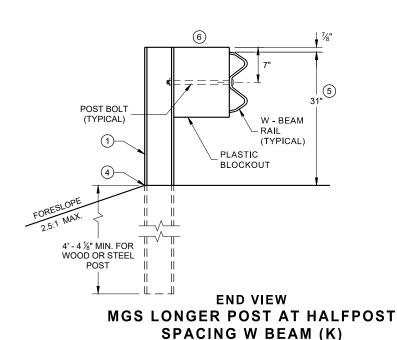


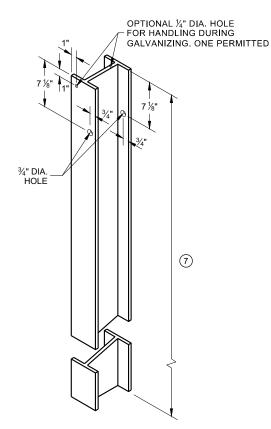
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



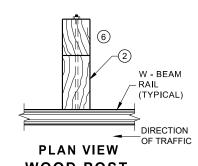
SETTING STEEL OR WOOD POST IN ROCK



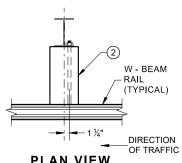




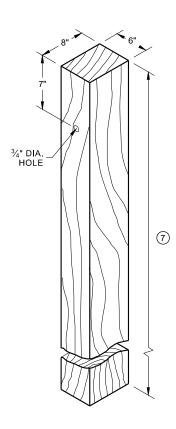
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



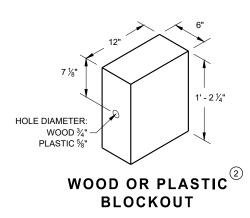
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



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

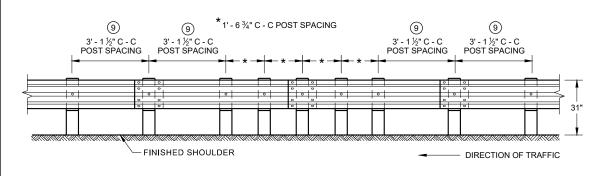
POST SPACING

DIRECTION OF TRAFFIC

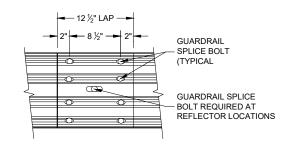
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW
QUARTER POST SPACING (QS)



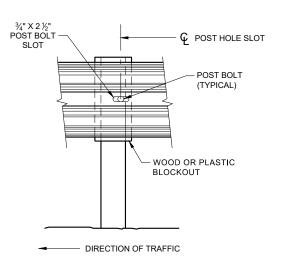
FRONT VIEW
MID-SPAN BEAM SPLICE

GENERAL NOTES

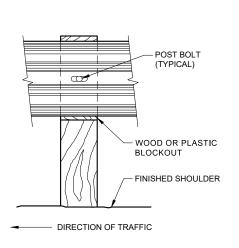
- 8 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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.

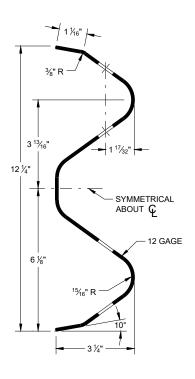
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



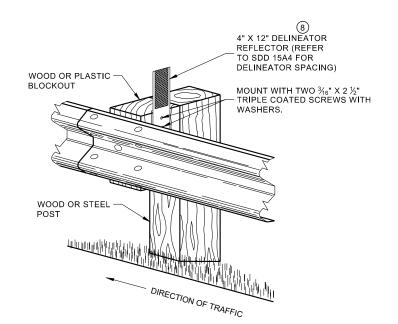
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

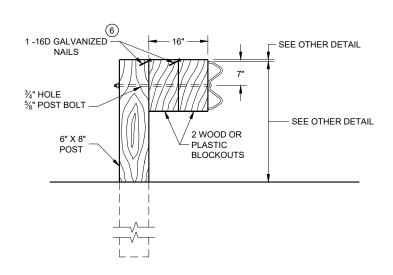
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

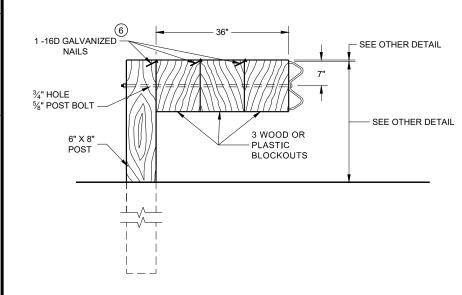
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6



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.



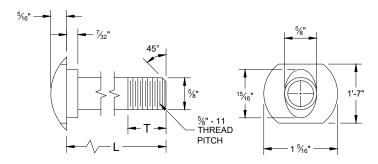
DETAIL FOR 36" BLOCKOUT DEPTH

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.

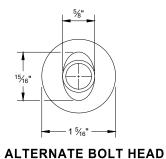
NOTE:

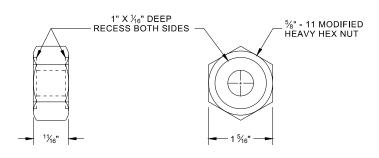
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

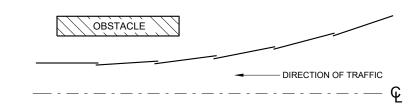
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



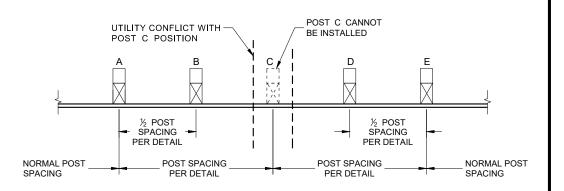


POST BOLT, SPLICE BOLT **AND RECESS NUT**

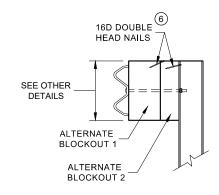
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

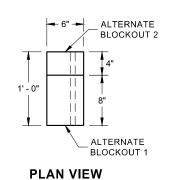


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

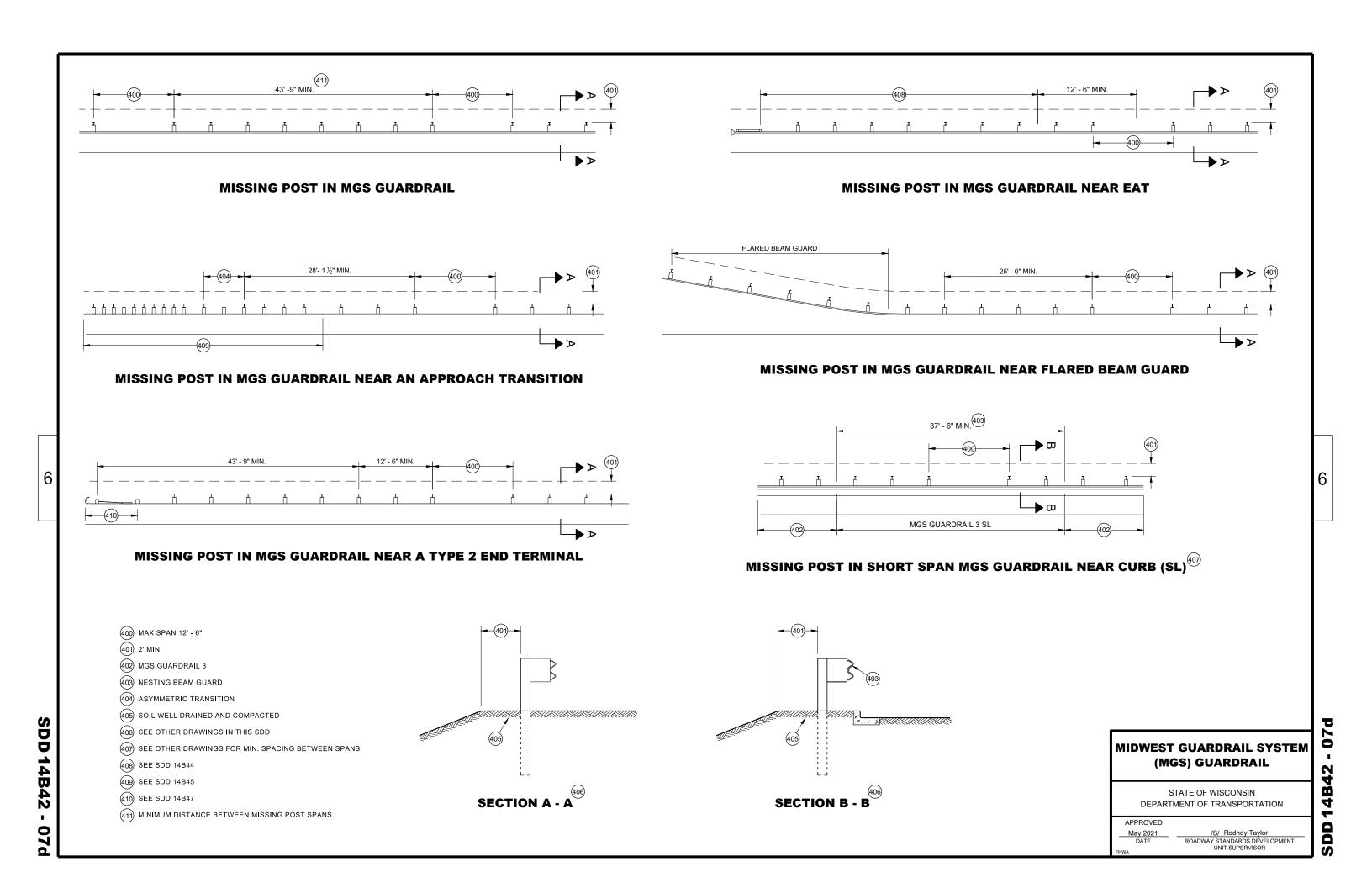
ALTERNATE WOOD BLOCKOUT DETAIL

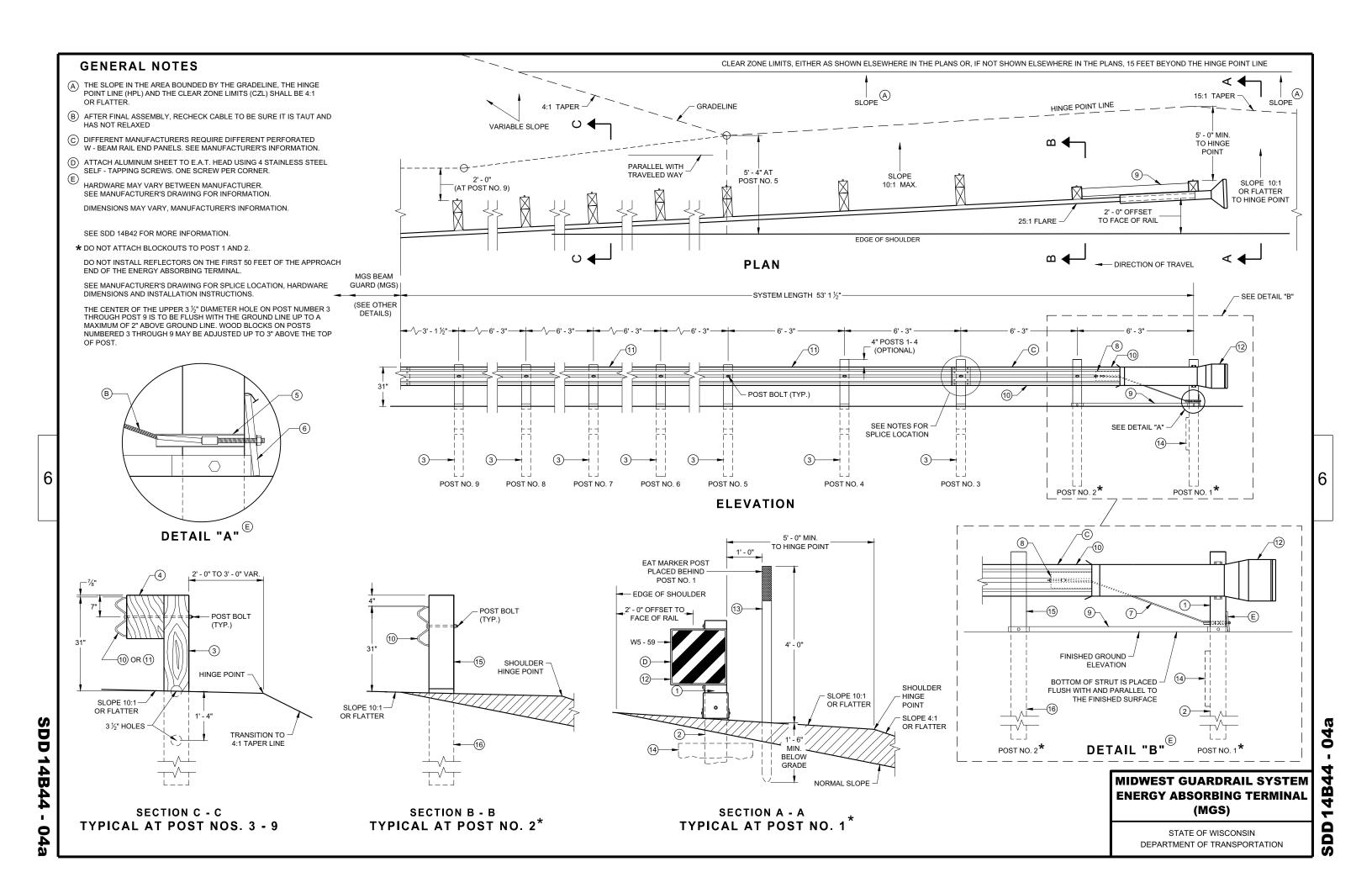
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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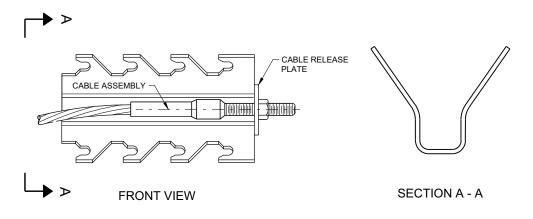
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

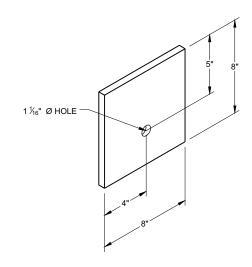




GENERIC GROUND STRUT



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



BEARING PLATE

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

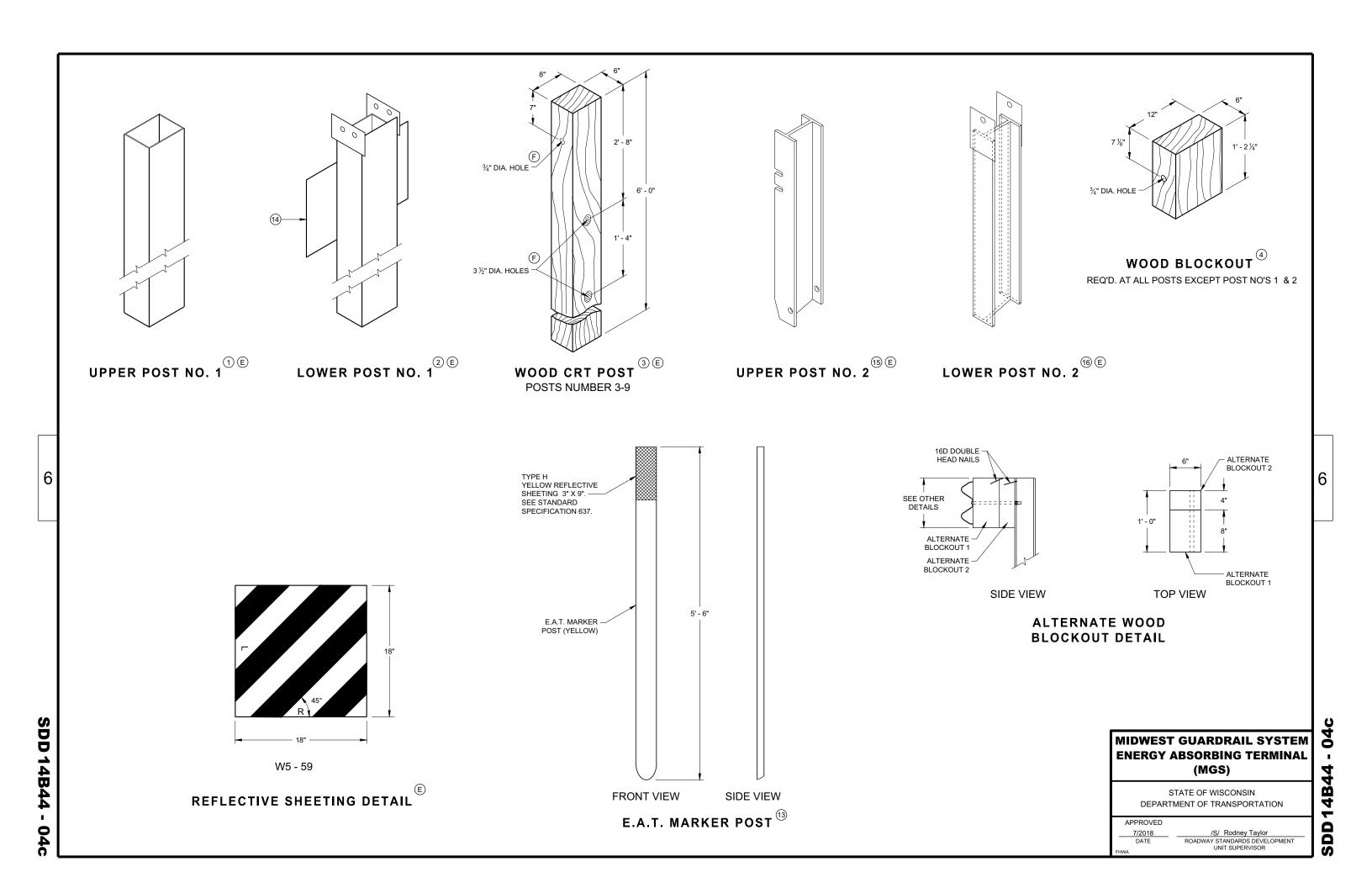
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

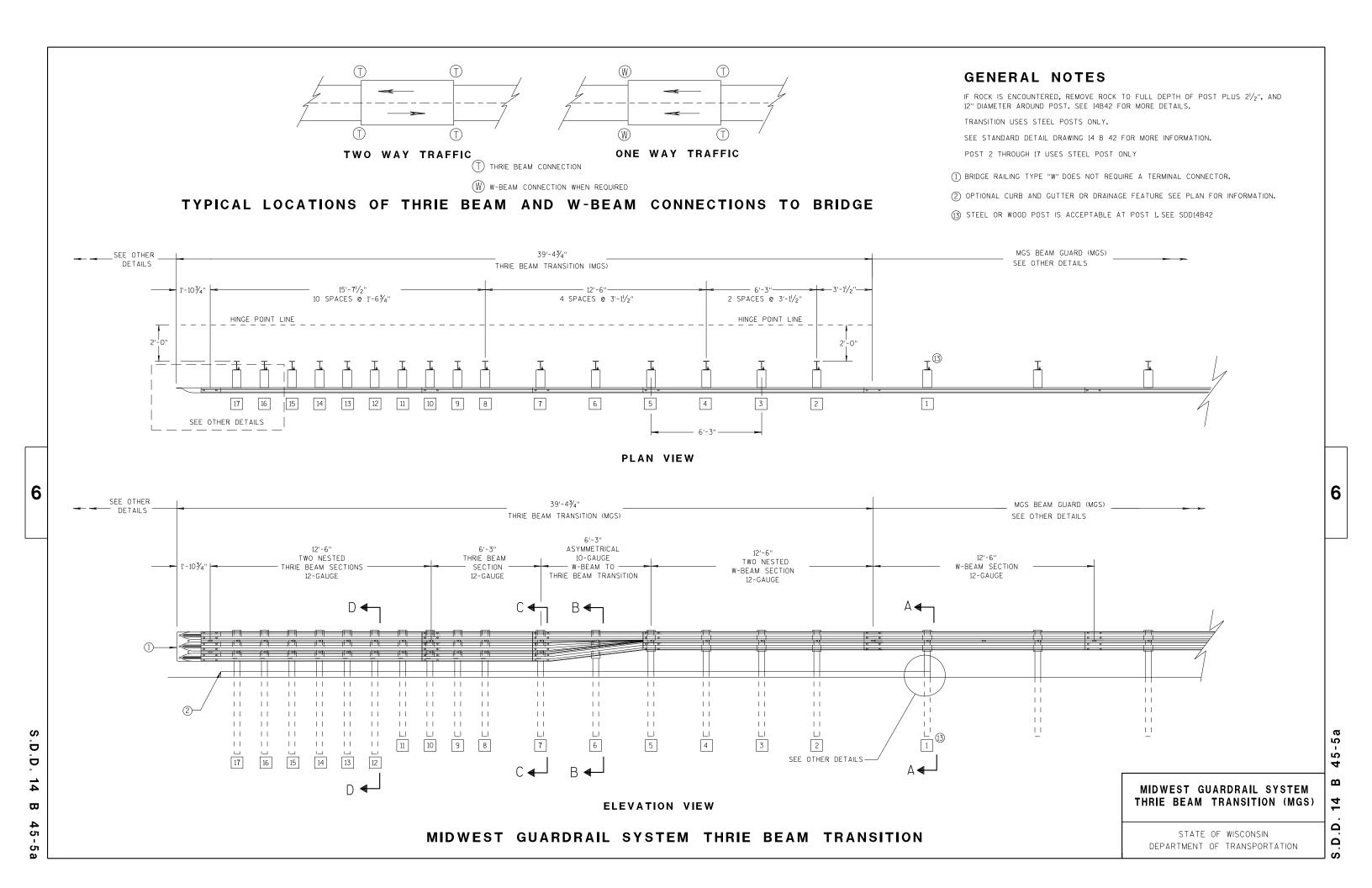
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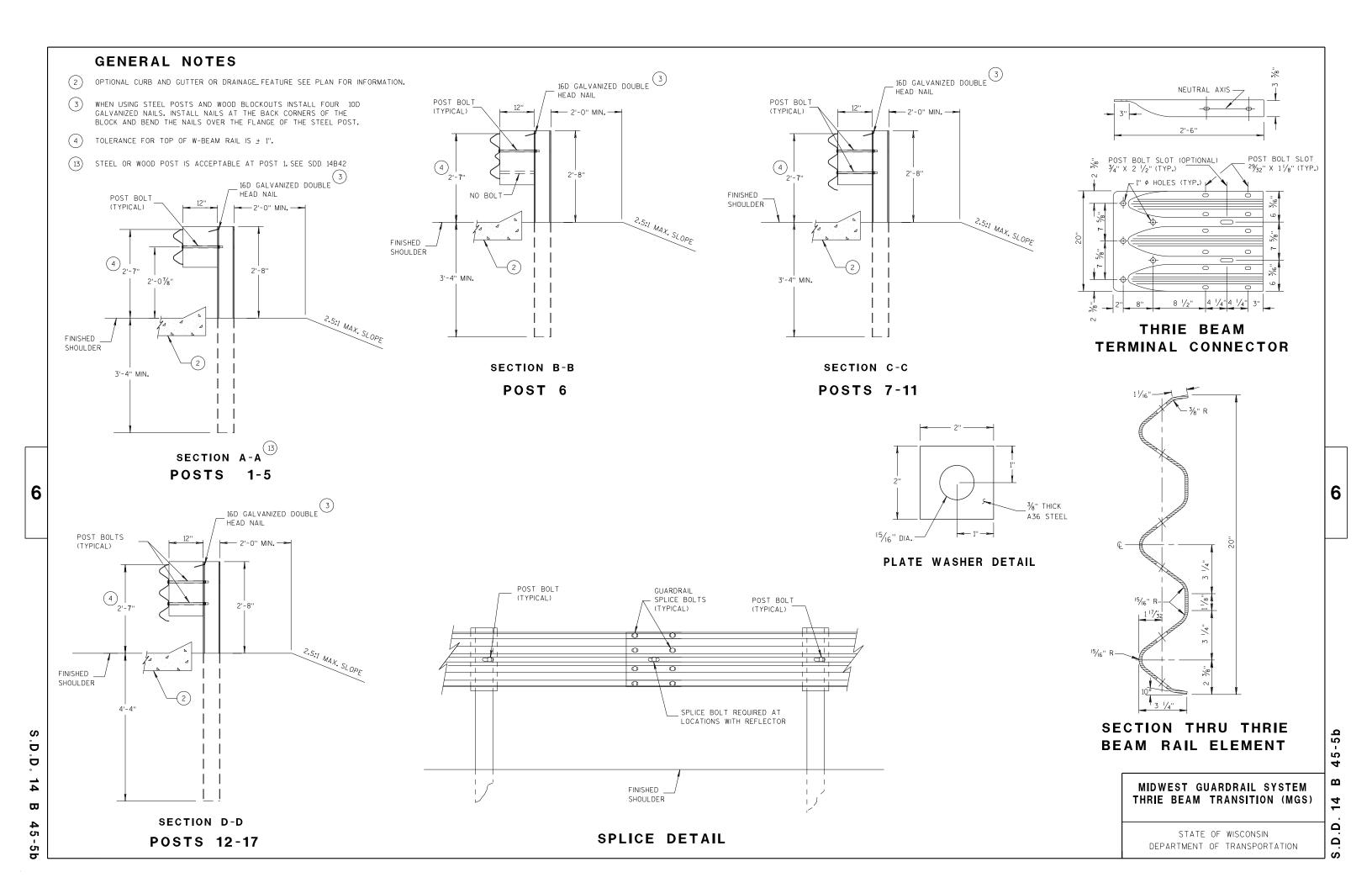
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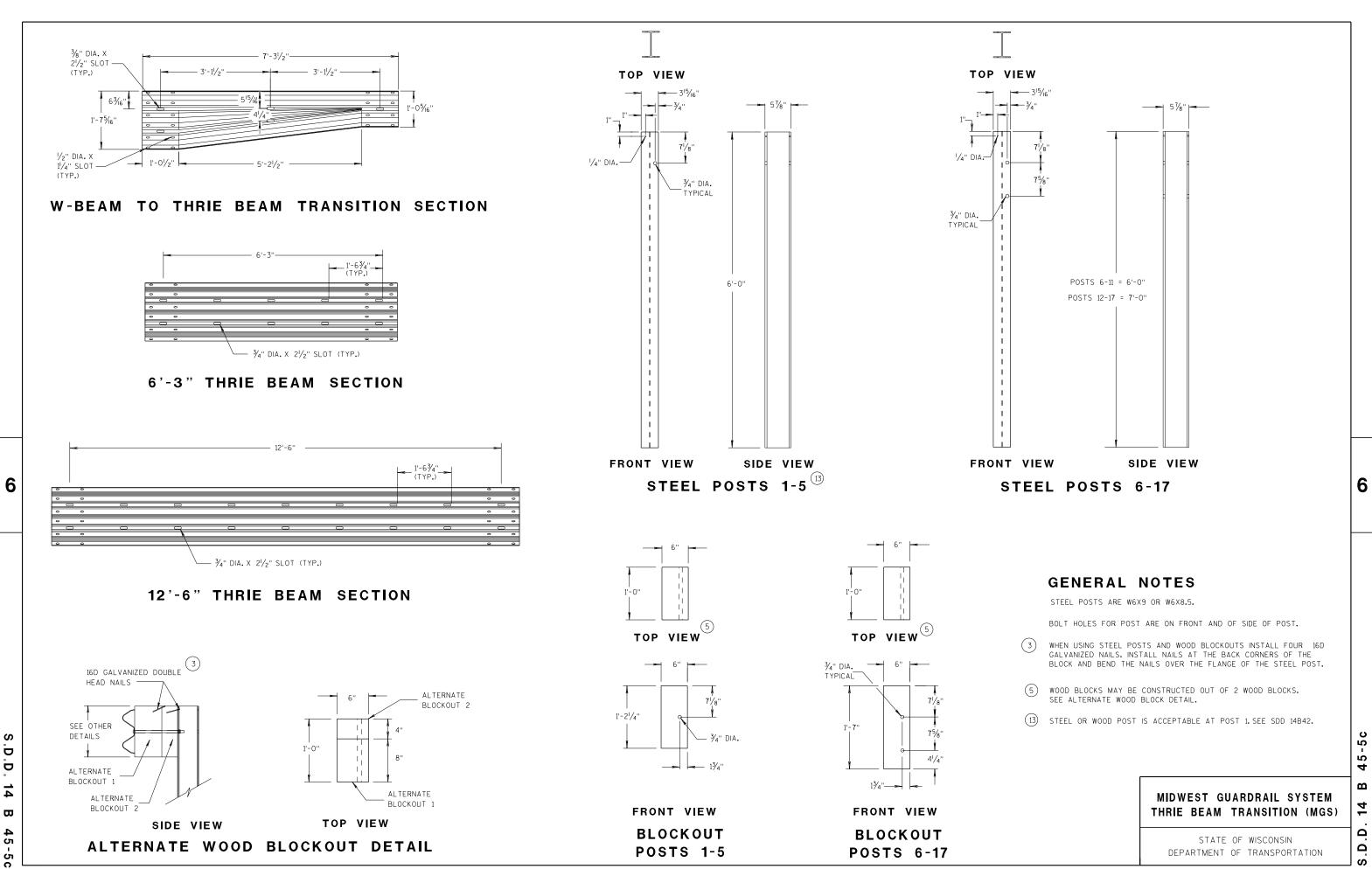
SDD

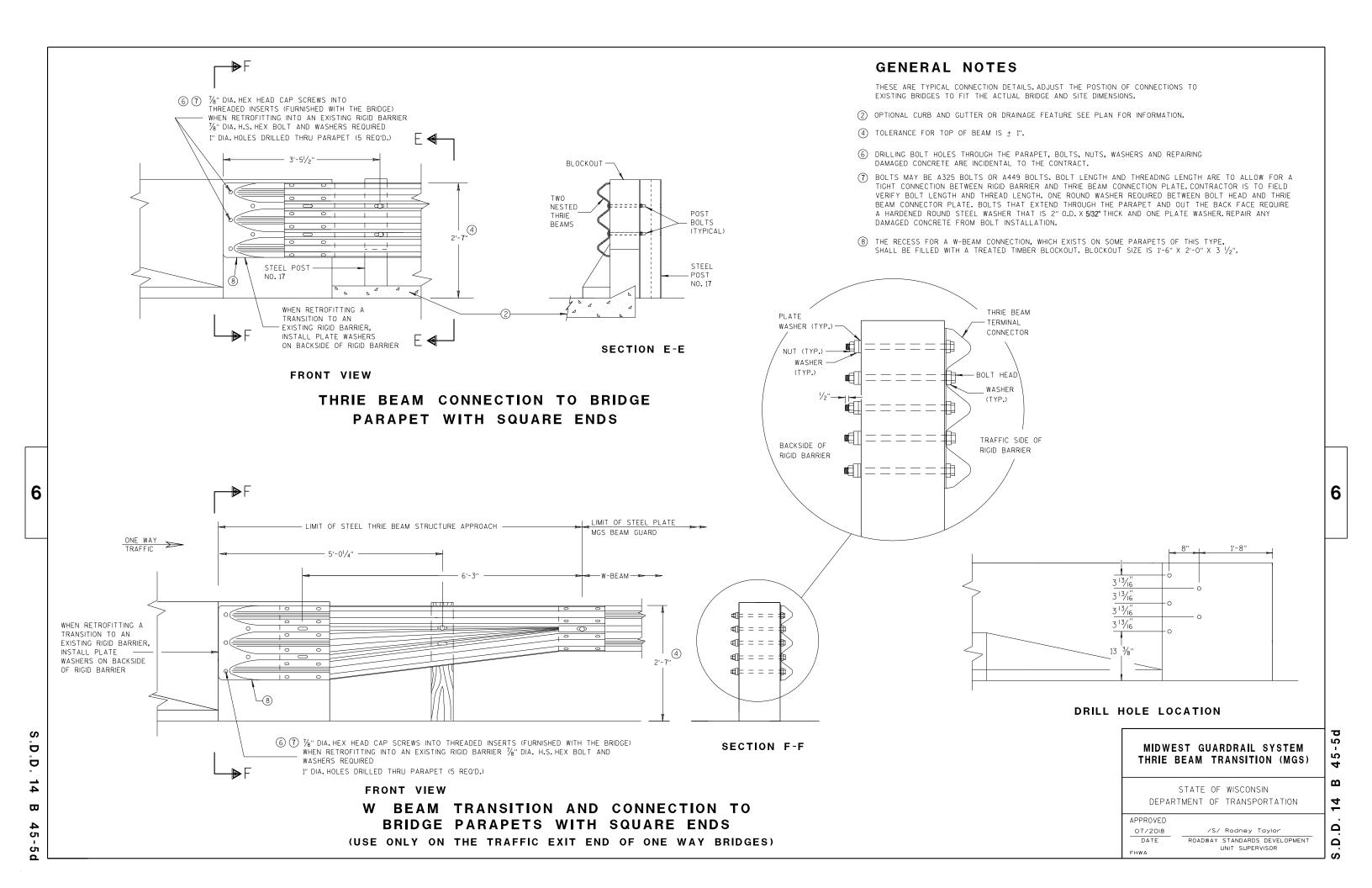
SDD 14B44 - 04















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**

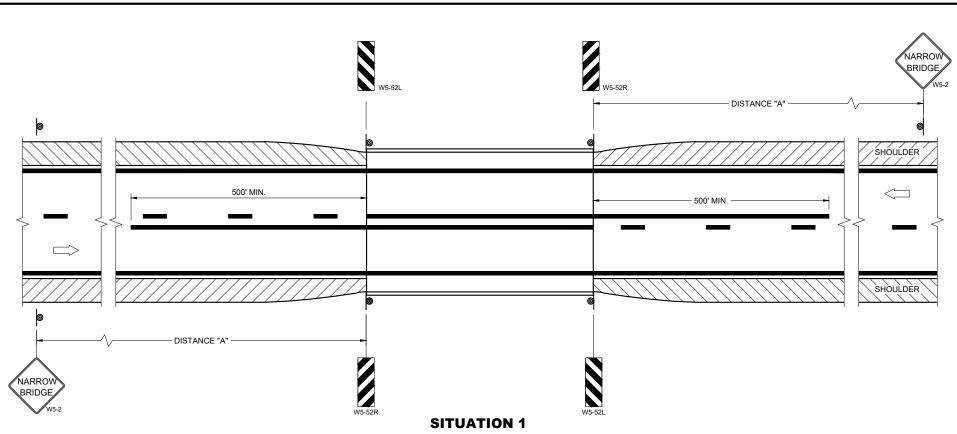
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

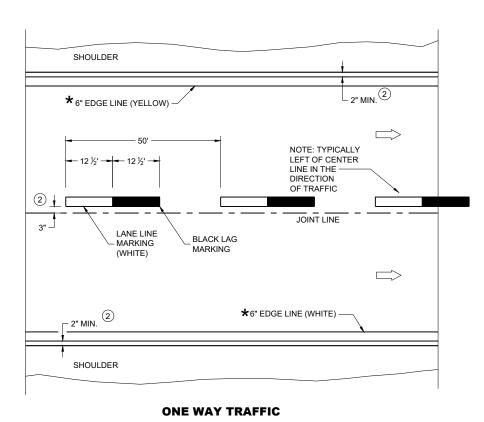
DISTANCE TABLE

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	



PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

- 1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- (2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

PERMANENT LONGITUDINAL **PAVEMENT MARKINGS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

May 2023 DATE

/S/ Jeannie Silver Statewide Pavement Marking Engineer

6

SDD

C08-23 Ŋ SD

15C08-23a





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 REQUIRED)		
L	E	
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 BY : mscj9h

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :



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

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

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

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 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:

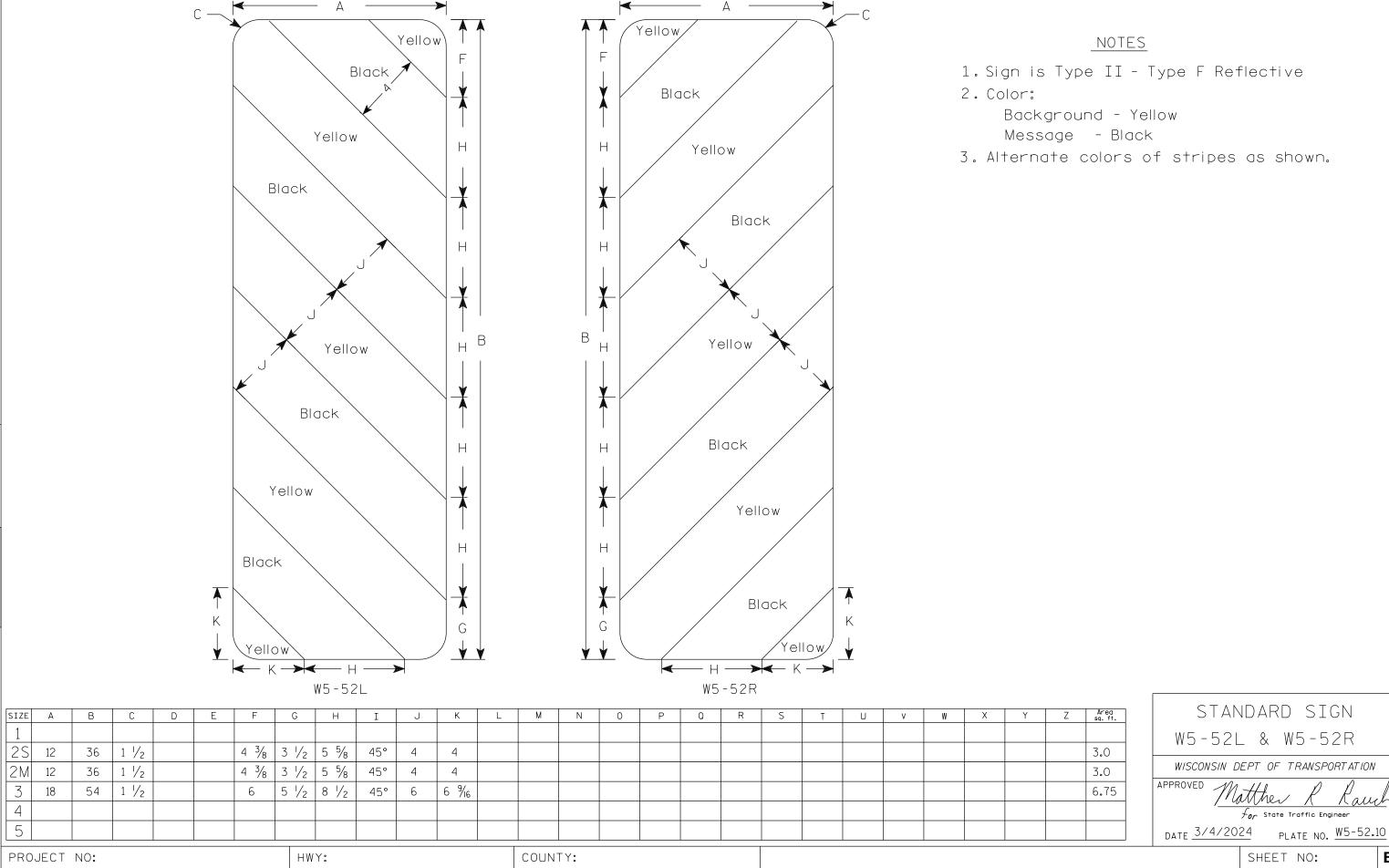
PLOT DATE: 19-APRIL 2022 11:55

SIGN

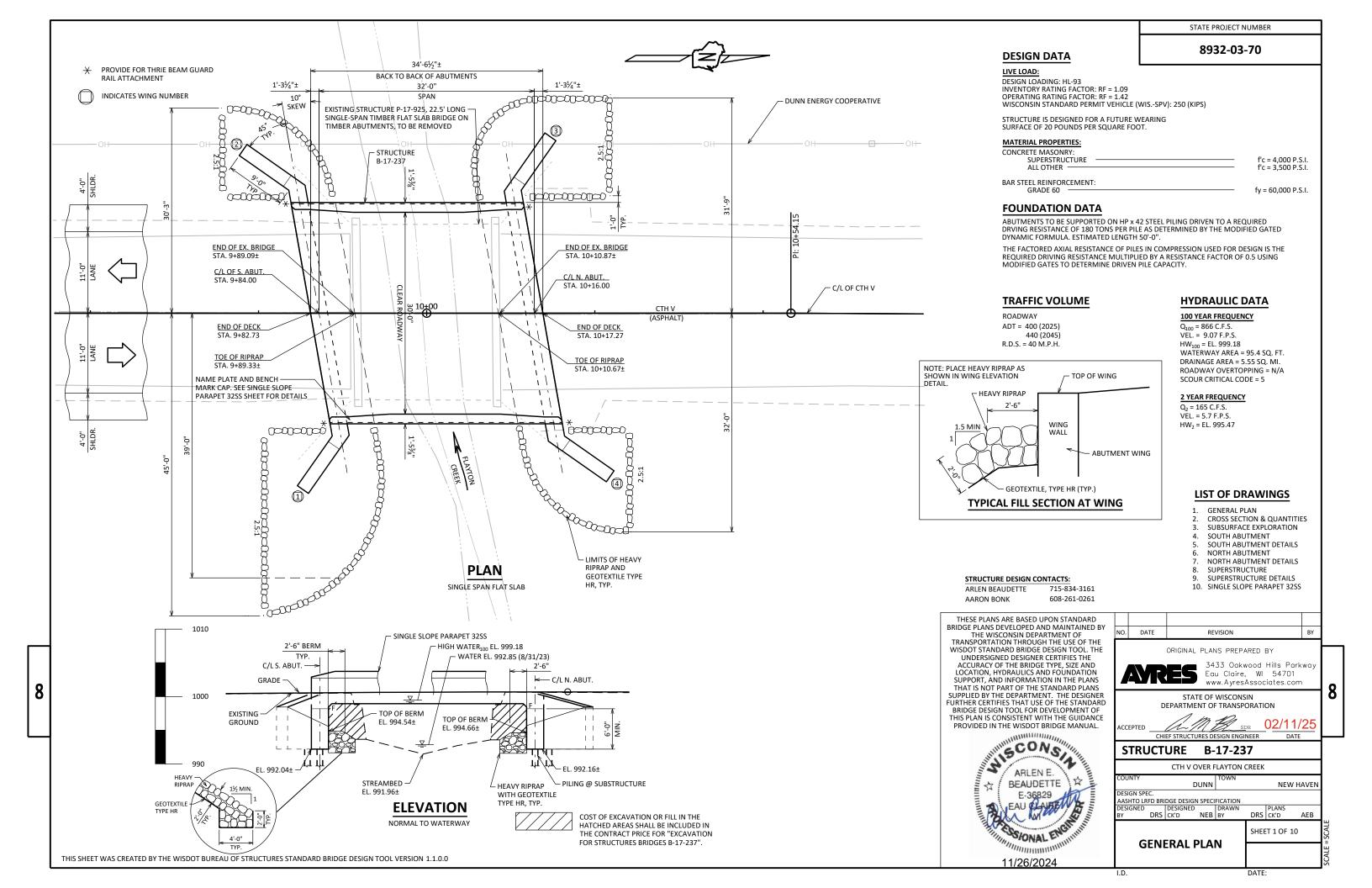
PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε



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



8932-03-70

DRAWINGS SHALL NOT BE SCALED.

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

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-17-237 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

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

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 SLAB, THE TOP OF EXTERIOR EXPOSED FACE OF WINGS, AND FRONT FACE OF ABUTMENT TO 1'-0" PAST THE EDGE OF SLAB.

BENCH MARKS

998.39 120D SPIKE IN PPOL, 24.5' LT.

120D SPIKE ON TOP OF WINGWALL, 14.3' RT.

ELEV. DESCRIPTION

STATION

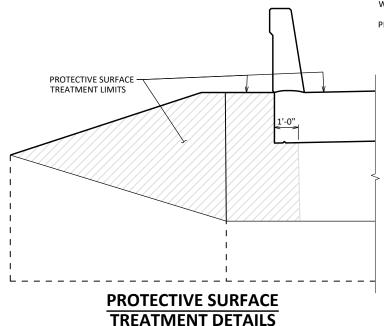
9+88

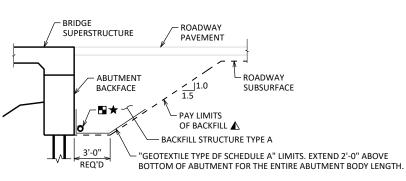
10+66

NO. 50

51

PIGMENTED SURFACE SEALER TO BE APPLIES TO THE FRONT FACE AND TOP OF PARAPET.





TYPICAL SECTION THRU ABUTMENT

- 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 SHIFLD AT ENDS OF PIPE UNDERDRAIN

LOCATED BELOW NORMAL WATER, PLACE DRAIN ABOVE NORMAL WATER. SEE BRIDGE MANUAL 12.6.1 FOR ADDITIONAL GUIDANCE.

★ FOR BOTTOM OF ABUTMENTS

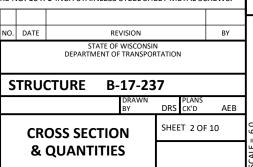
NOMINAL VVVVVVVSECTION

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 SHIFLD 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.



CROSS SECTION THRU ROADWAY

32'-103/4" OUT TO OUT OF SUPERSTRUCTURE

30'-0"

CLEAR BETWEEN BARRIERS

11'-0"

LANE

TOP OF BERM

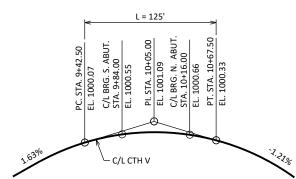
C/L CTH V

11'-0"

LANE

POINT REFERRED TO ON -PROFILE GRADE LINE

> LOOKING UPSTATION (PILING NOT SHOWN FOR CLARITY)



TOTAL ESTIMATED QUANTITIES

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

→ A

ABUTMENT BACKFILL DIAGRAM = ABUTMENT BODY LENGTH AT BACKFACE (FT)

= (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)

= 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) = WING LENGTH (FT)

ELEVATION

PLAN

TOP OF

PAVEMENT

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	S. ABUT.	N. ABUT.	TOTALS 1
203.0260	REMOVING STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS P-17-925	EACH				
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-17-237	EACH				1
210.1500	BACKFILL STRUCTURE TYPE A	TON		198	198	396
502.0100	CONCRETE MASONRY BRIDGES	CY	71	33	33	137
502.3200	PROTECTIVE SURFACE TREATMENT	SY	115	16	16	147
502.3210	PIGMENTED SURFACE SEALER	SY	27			27
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		2,420	2,420	4,840
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	17,450	1,530	1,530	20,510
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		6	6	12
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF		400	400	800
606.0300	RIPRAP HEAVY	CY		60	50	110
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		75	75	150
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH		2	2	4
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		48	48	96
645.0120	GEOTEXTILE TYPE HR	SY		130	110	240
	NON-BID ITEMS					
	FILLER	SIZE				1/2", 3/4"

1'-53/8"

4'-0" SHLD.

SECTION A-A

SECTION B-B

PROFILE GRADE LINE

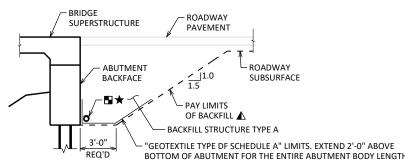
1'-53/8"

- SINGLE SLOPE PARAPET 32SS (TYP.)

4'-0"

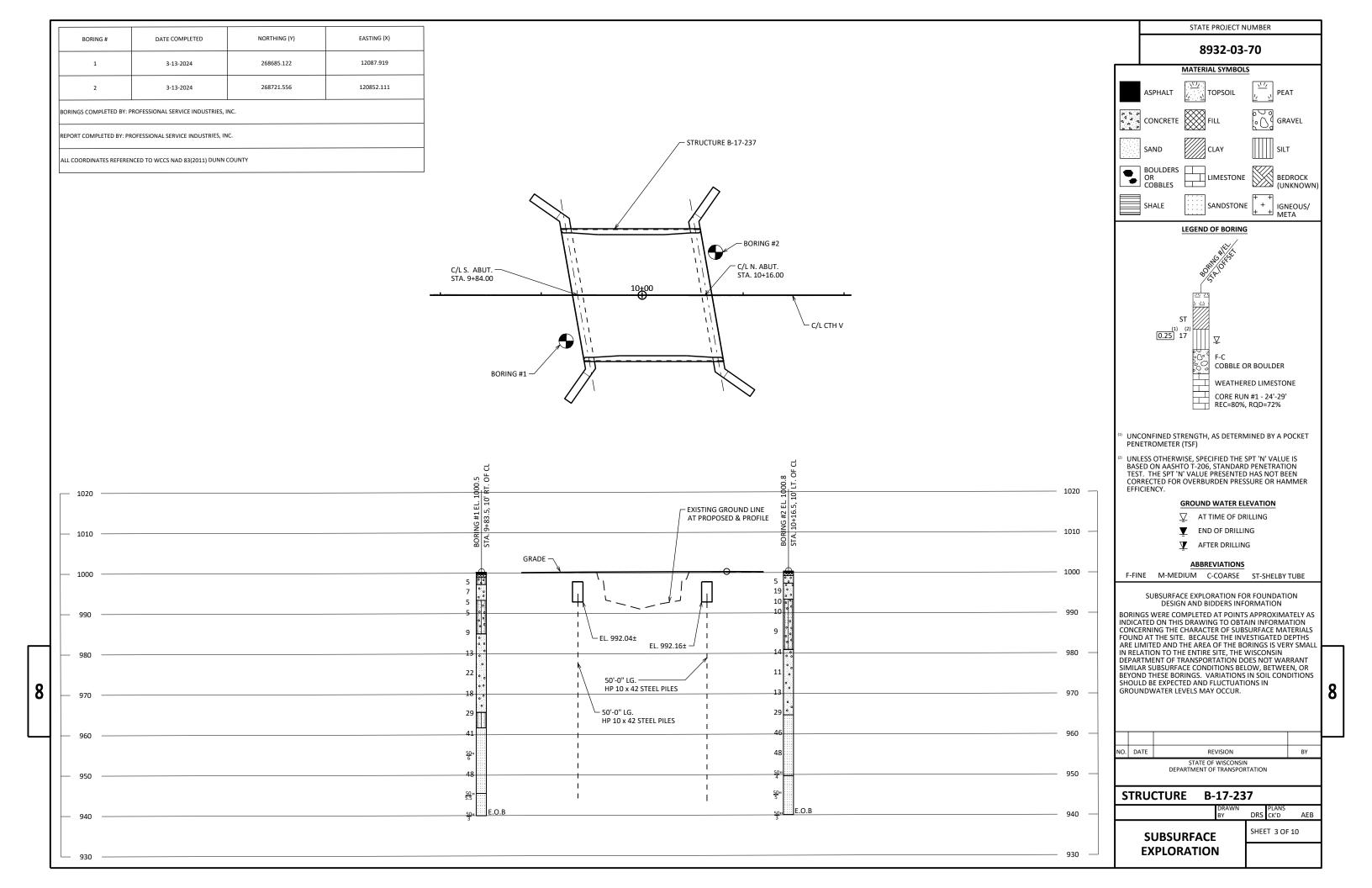
SHLD.

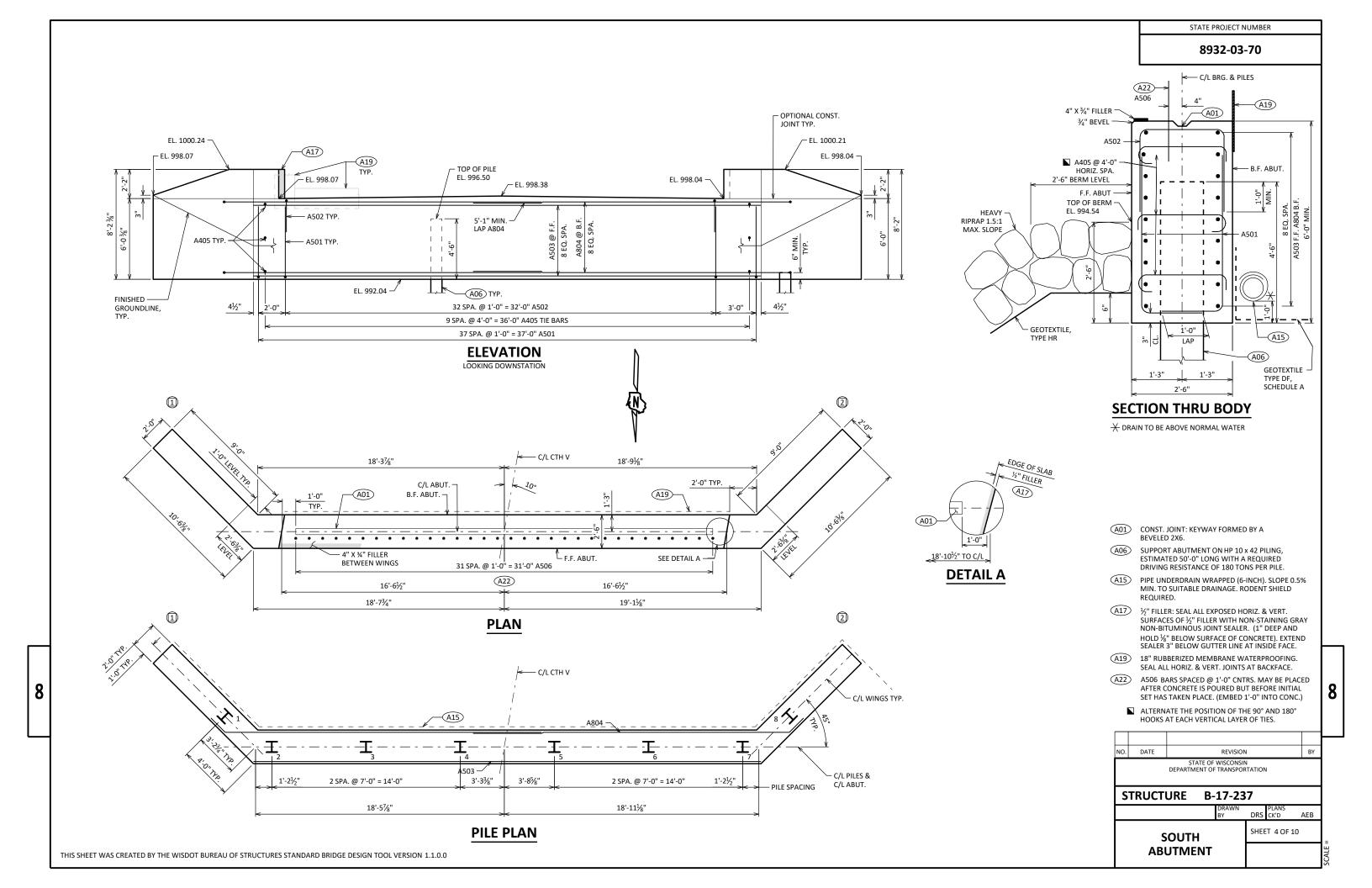
- BOTTOM OF ABUTMENT

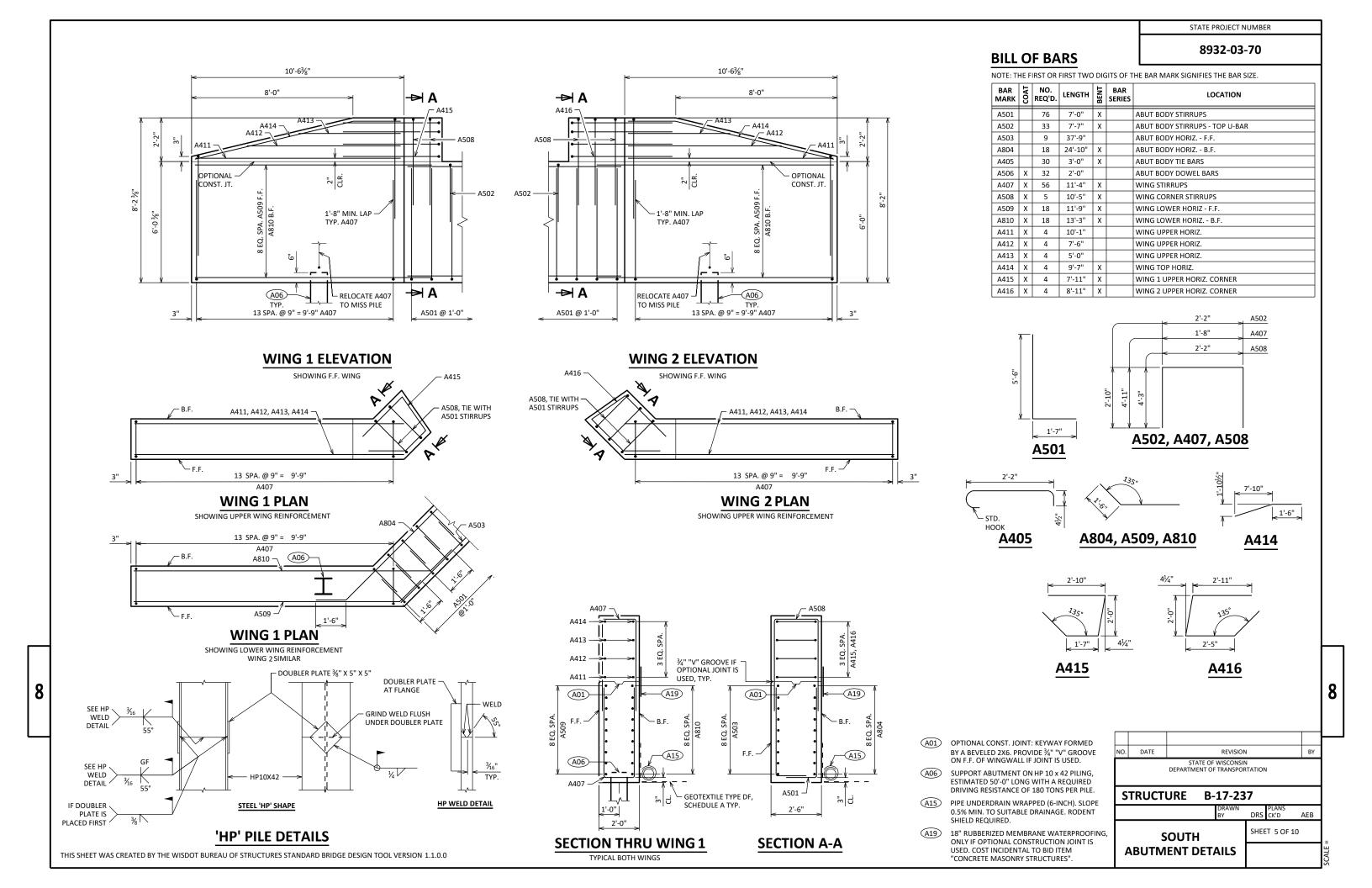


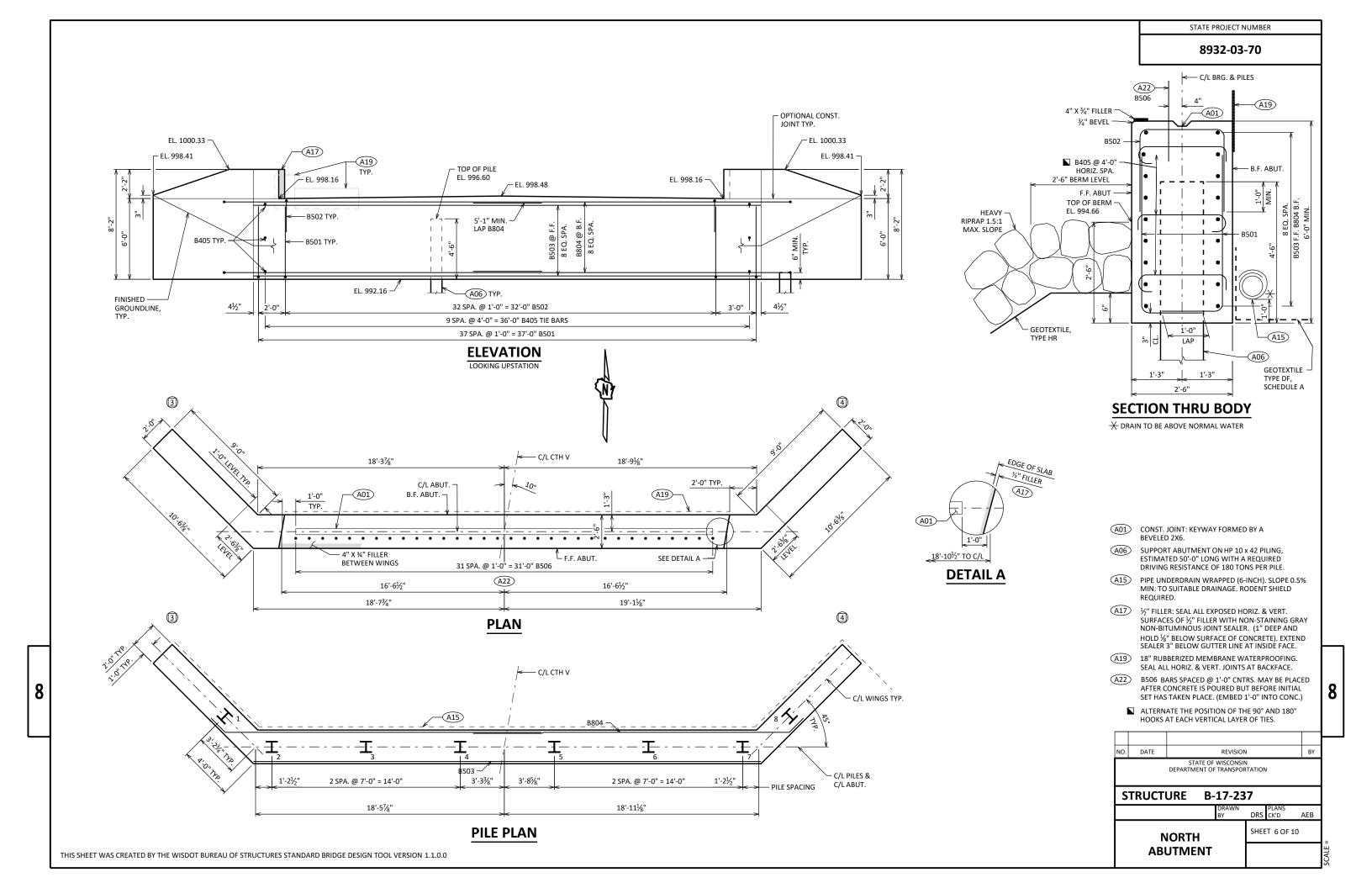
- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL

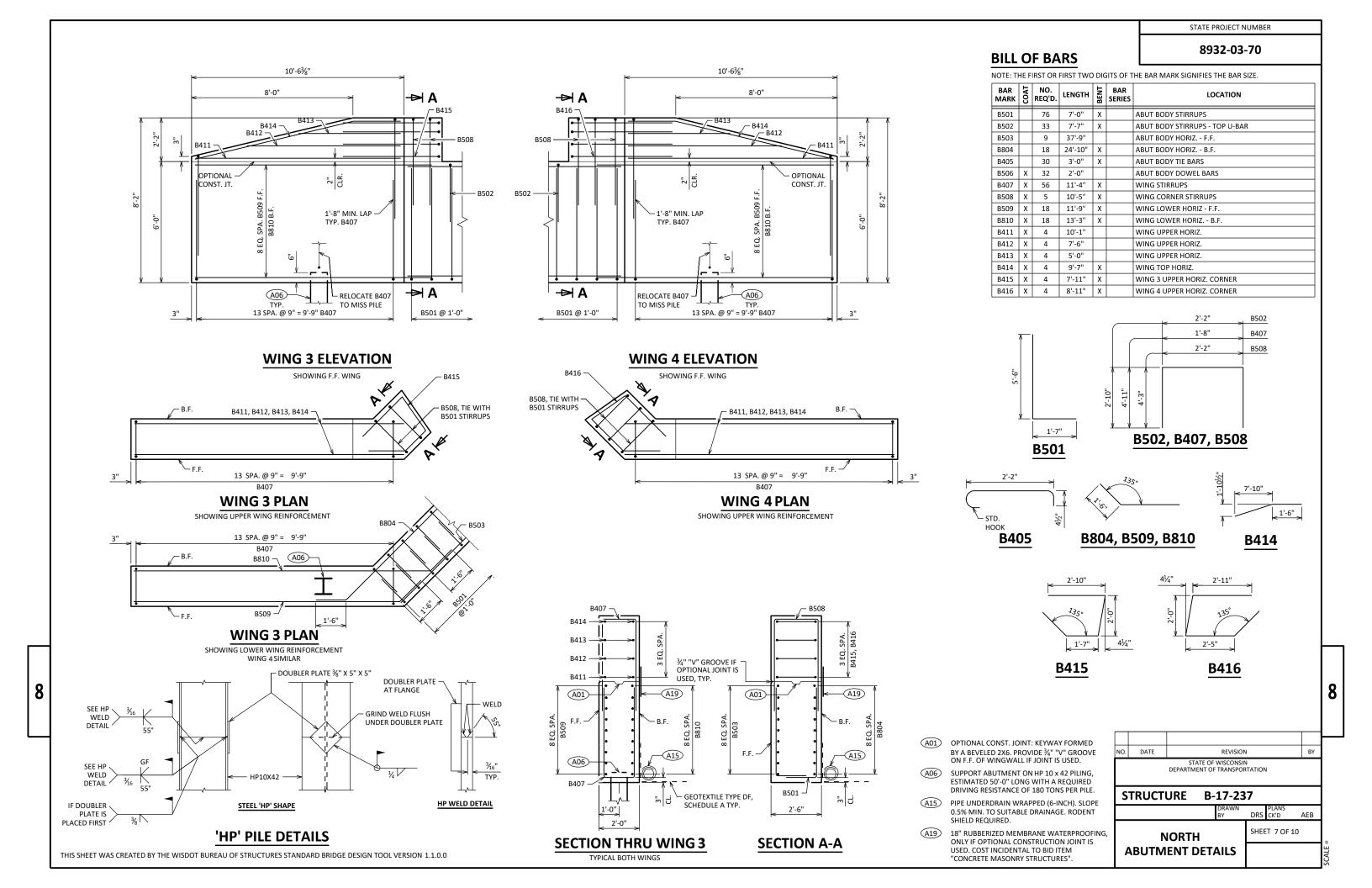
THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 1.1.0.0

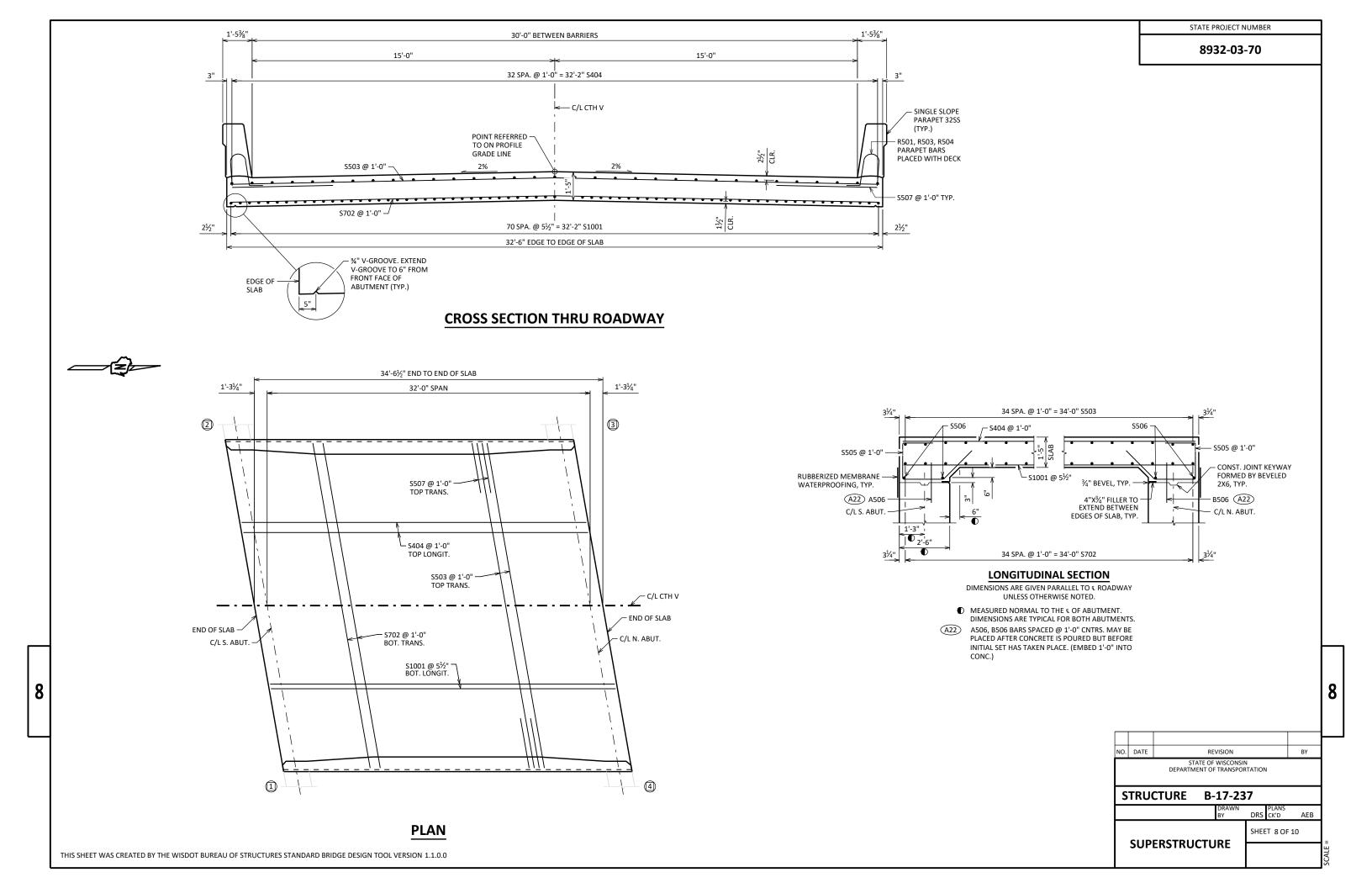












CAMBER AND SLAB THICKNESS DIAGRAM

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	1000.21	1000.23	1000.25	1000.27	1000.28	1000.30	1000.31	1000.32	1000.32	1000.33	1000.33
CROWN OR R/L	1000.55	1000.57	1000.59	1000.61	1000.62	1000.63	1000.64	1000.65	1000.65	1000.65	1000.65
E. EDGE OF DECK	1000.24	1000.26	1000.28	1000.29	1000.31	1000.32	1000.32	1000.33	1000.33	1000.33	1000.33

2'-0" **S505**

BILL OF BARS

8932-03-70

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	Χ	71	34'-2"			SLAB BOTTOM LONGITUDINAL
S702	Х	35	32'-8"			SLAB BOTTOM TRANSVERSE
S503	Х	35	32'-8"			SLAB TOP TRANSVERSE
S404	Х	33	34'-2"			SLAB TOP LONGITUDINAL
S505	Х	66	7'-0"	Х		ABUTMENT DIAPHRAGM STIRRUPS
S506	Х	4	32'-8"			ABUTMENT DIAPHRAGM LONGITUDINAL
S507	Х	68	5'-0"			SLAB TOP EDGE TRANSVERSE
			·			

SURVEY TOP OF SLAB ELEVATIONS

LOCATION	ABUTMENT	5/10 PT.	ABUTMENT
W. GUTTER			
CROWN OR R/L			
E. GUTTER			

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.

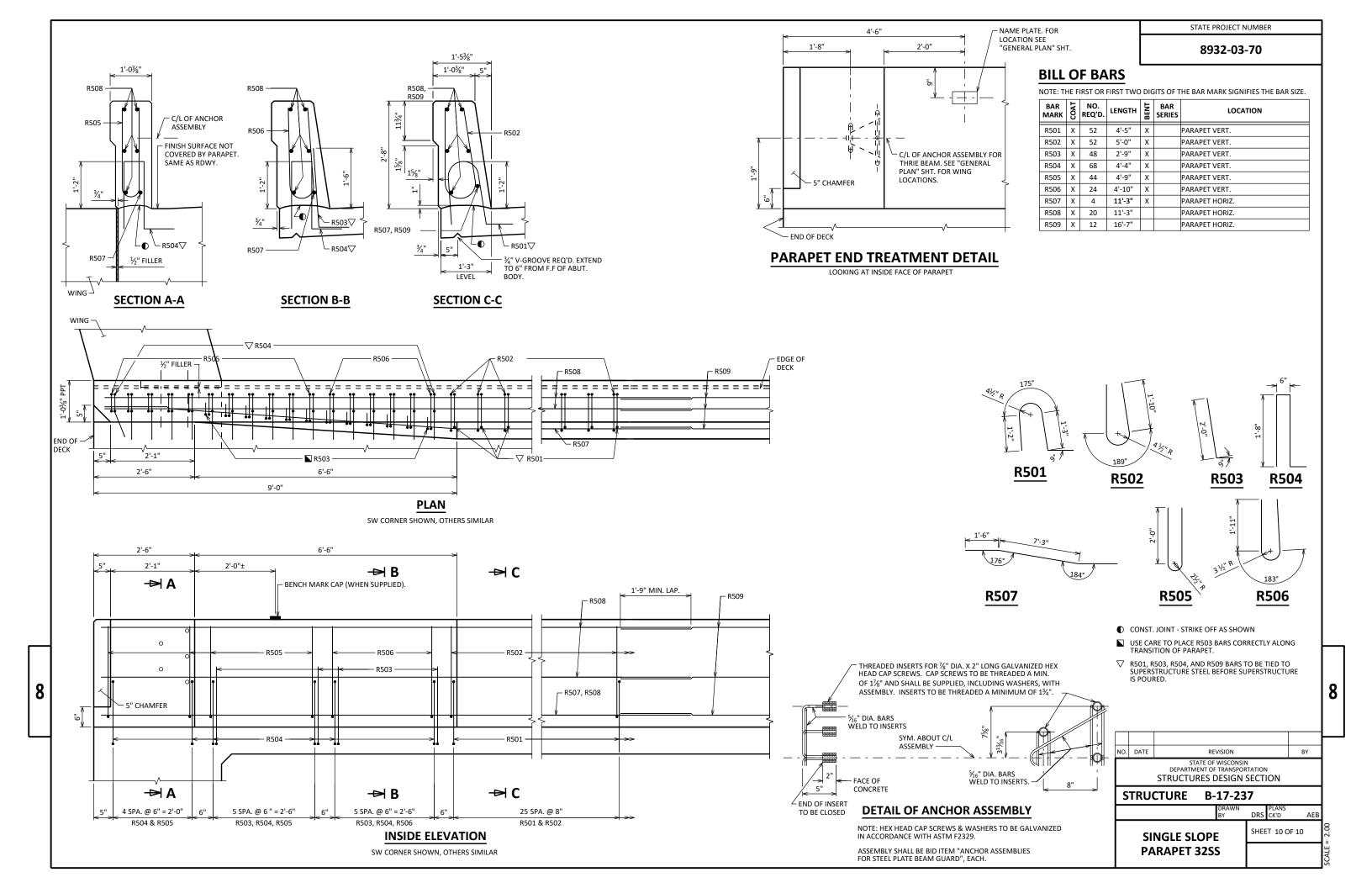
TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

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

NO.	DATE		REVISIO	V			BY			
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION									
S٦	STRUCTURE B-17-237									
			DRAWN BY	DRS	PLANS CK'D	AE	В			
SUPERSTRUCTURE SHEET 9 OF 10										
	D	ETAILS								

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THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 1.1.0.0



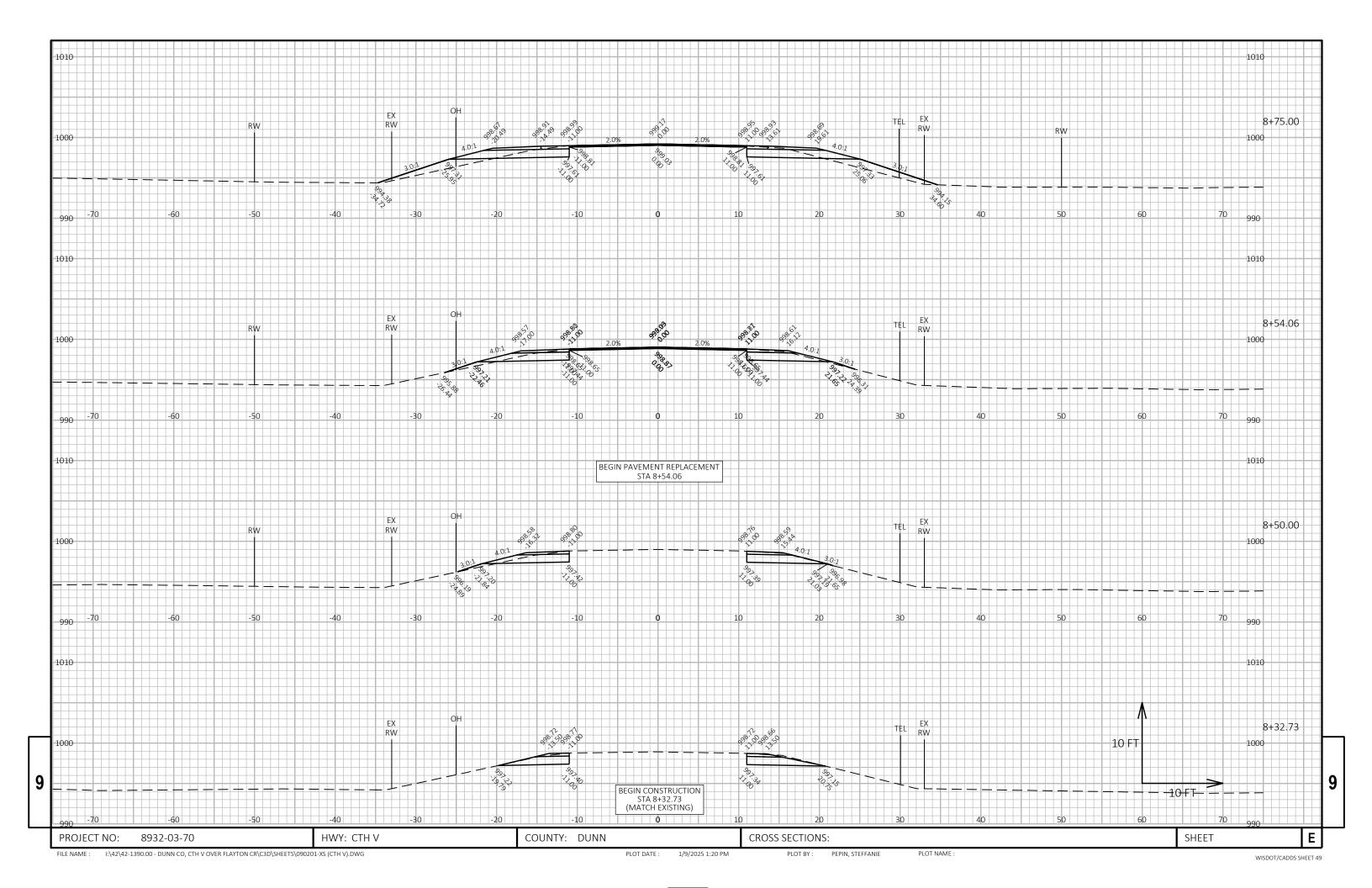
CTH V COMPUTER EARTHWORK

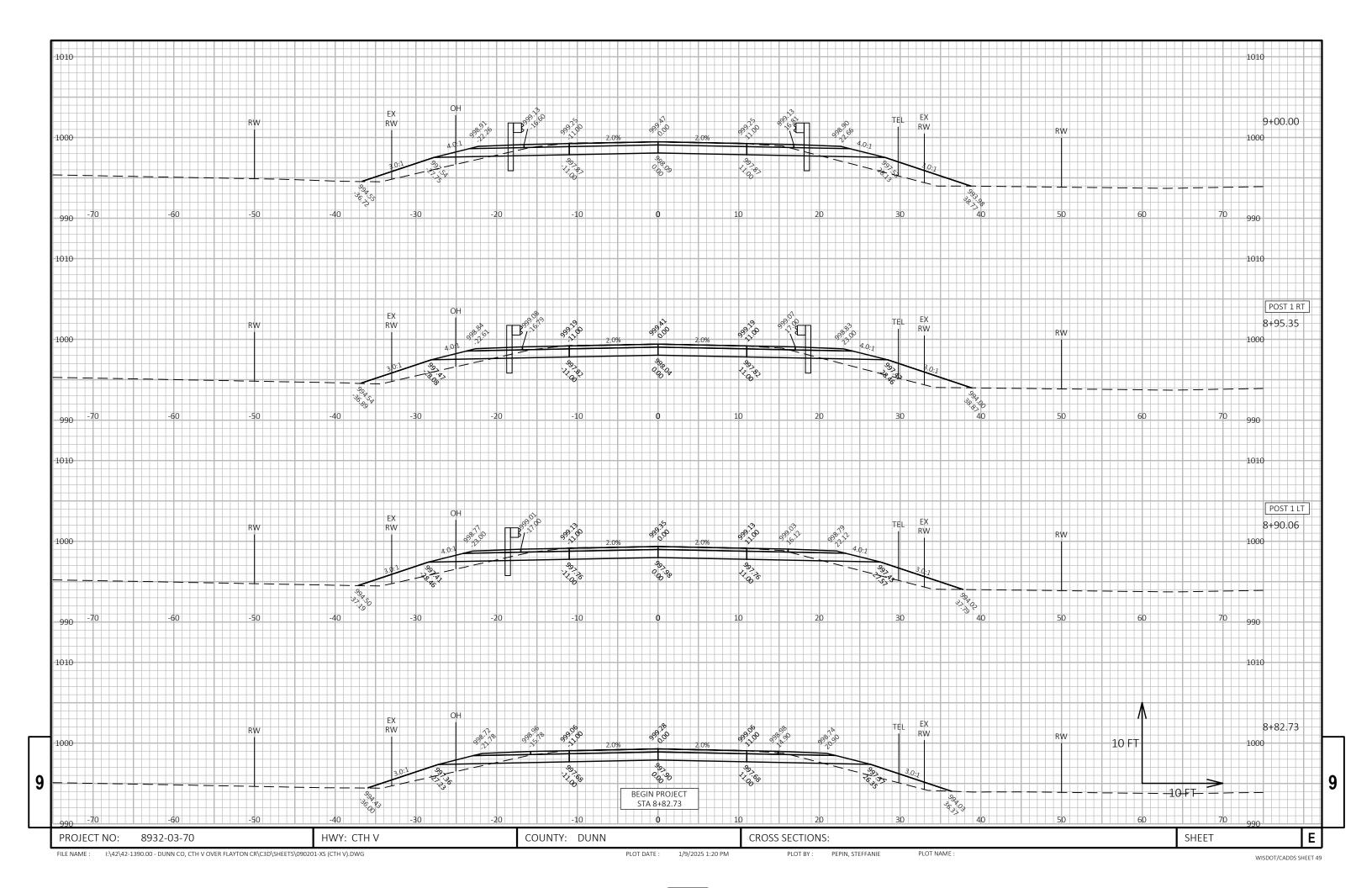
						tal Vol (CY) (U	nadjusted	Cumulativ	e Vol (CY)	
			·		Salvaged /				Expanded	
Station	Distance	Cut	Unuseable	Fill	Cut	Unuseable	Fill	Cut	Fill	Mass Ordinate
			Pavement			Pavement		1.00	1.30	
			Material			Material				
					Note 1	Note 4	Note 2	Note 5		Note 3
8+32.73		15.9	0.0	0.0						
8+50	17.27	16.2	0.0	0.9	10	0	0	10	0	10
8+54.06	4.06	15.8	0.0	2.0	2	0	0	13	1	12
8+75	20.94	16.1	0.0	17.7	12	0	8	25	11	15
8+82.73	7.73	46.7	11.0	25.4	9	2	6	32	19	14
8+90.06	7.33	47.1	11.0	33.5	13	3	8	42	29	13
8+95.35	5.29	47.2	11.0	35.9	9	2	7	49	38	12
9+00	4.65	47.2	11.0	34.5	8	2	6	56	46	10
9+15.06	15.06	46.6	11.0	31.0	26	6	18	76	69	6
9+20.35	5.29	46.1	11.0	27.0	9	2	6	82	77	6
9+25	4.65	45.4	11.0	21.1	8	2	4	88	82	6
9+40.06	15.06	44.3	11.0	7.3	25	6	8	107	92	15
9+45.35	5.29	43.7	11.0	7.5	9	2	1	114	94	19
9+50	4.65	43.5	11.0	9.1	8	2	1	119	96	23
9+69.47	19.47	43.6	11.0	41.9	31	8	18	143	120	23
9+75	5.53	55.8	11.0	49.6	10	2	9	151	132	19
9+75.73	0.73	56.3	11.0	48.7	2	0	1	152	134	18
9+82.73	7.00	56.3	11.0	48.7	15	3	13	164	150	13
BRIDGE			-							
10+17.27		43.5	11.0	23.8						
10+27.25	9.98	43.5	11.0	23.8	16	4	9	176	162	14
10+30.33	3.08	43.4	11.0	23.6	5	1	3	180	165	14
10+50	19.67	48.3	11.0	18.7	33	8	15	205	185	19
10+54.65	4.65	51.5	11.0	17.3	9	2	3	212	189	22
10+59.94	5.29	58.1	11.0	16.6	11	2	3	220	194	26
10+75	15.06	70.4	11.0	16.5	36	6	9	250	206	44
10+79.64	4.64	72.2	11.0	16.9	12	2	3	260	210	51
10+84.94	5.30	71.8	11.0	16.9	14	2	3	272	214	58
11+00	15.06	76.8	11.0	15.5	41	6	9	308	226	82
11+04.65	4.65	78.3	11.0	15.2	13	2	3	319	229	90
11+09.94	5.29	81.9	11.0	14.6	16	2	3	333	233	100
11+17.27	7.33	84.0	11.0	10.4	23	3	3	352	237	115
11+25	7.73	46.5	0.0	8.9	19	2	3	369	241	128
11+45.97	20.97	14.5	0.0	3.9	24	0	5	393	247	146
11+50	4.03	28.5	0.0	3.1	3	0	1	396	248	148
11+67.27	17.27	15.4	0.0	0.0	14	0	1	410	249	161
					495	85	192			

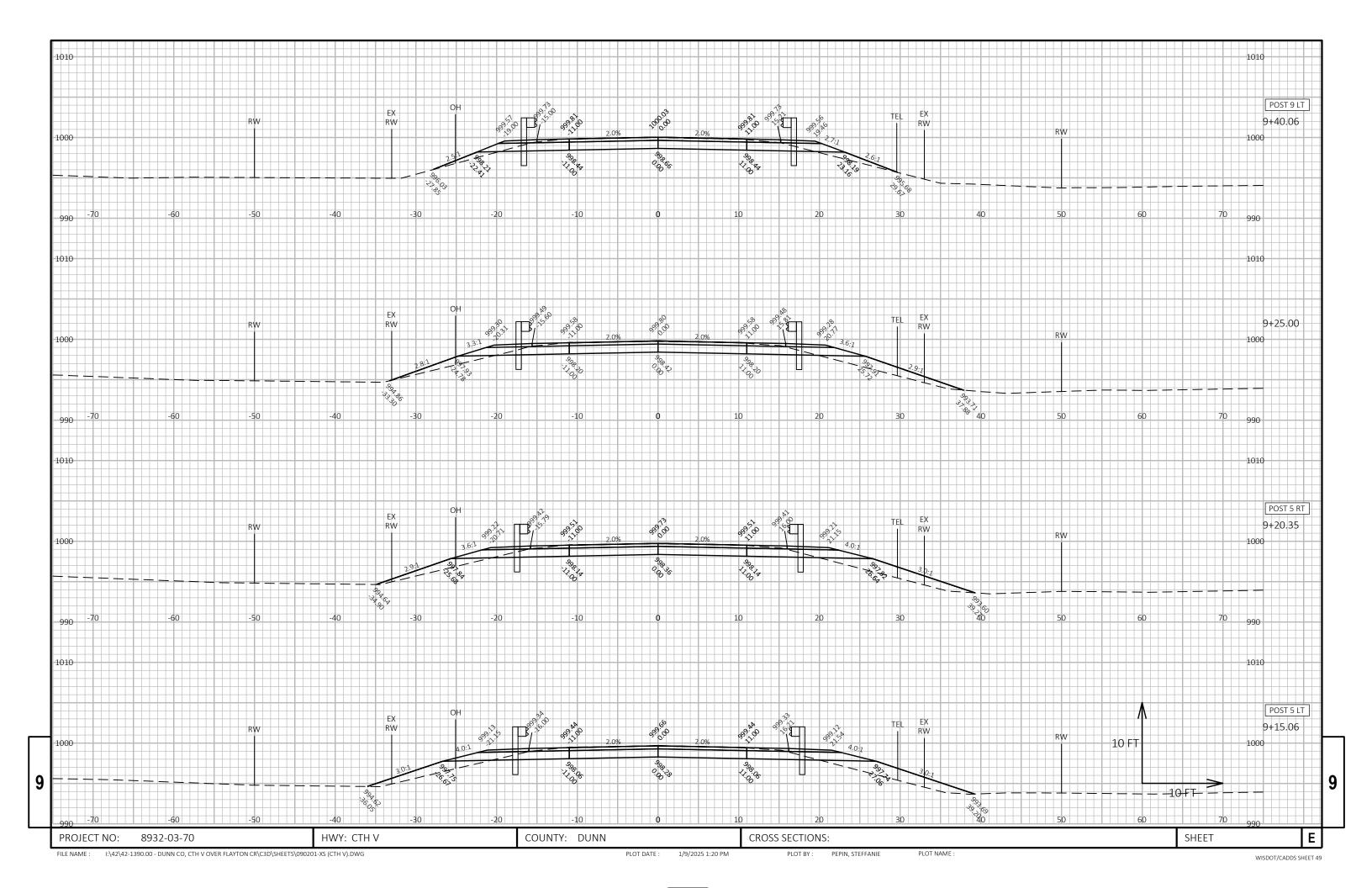
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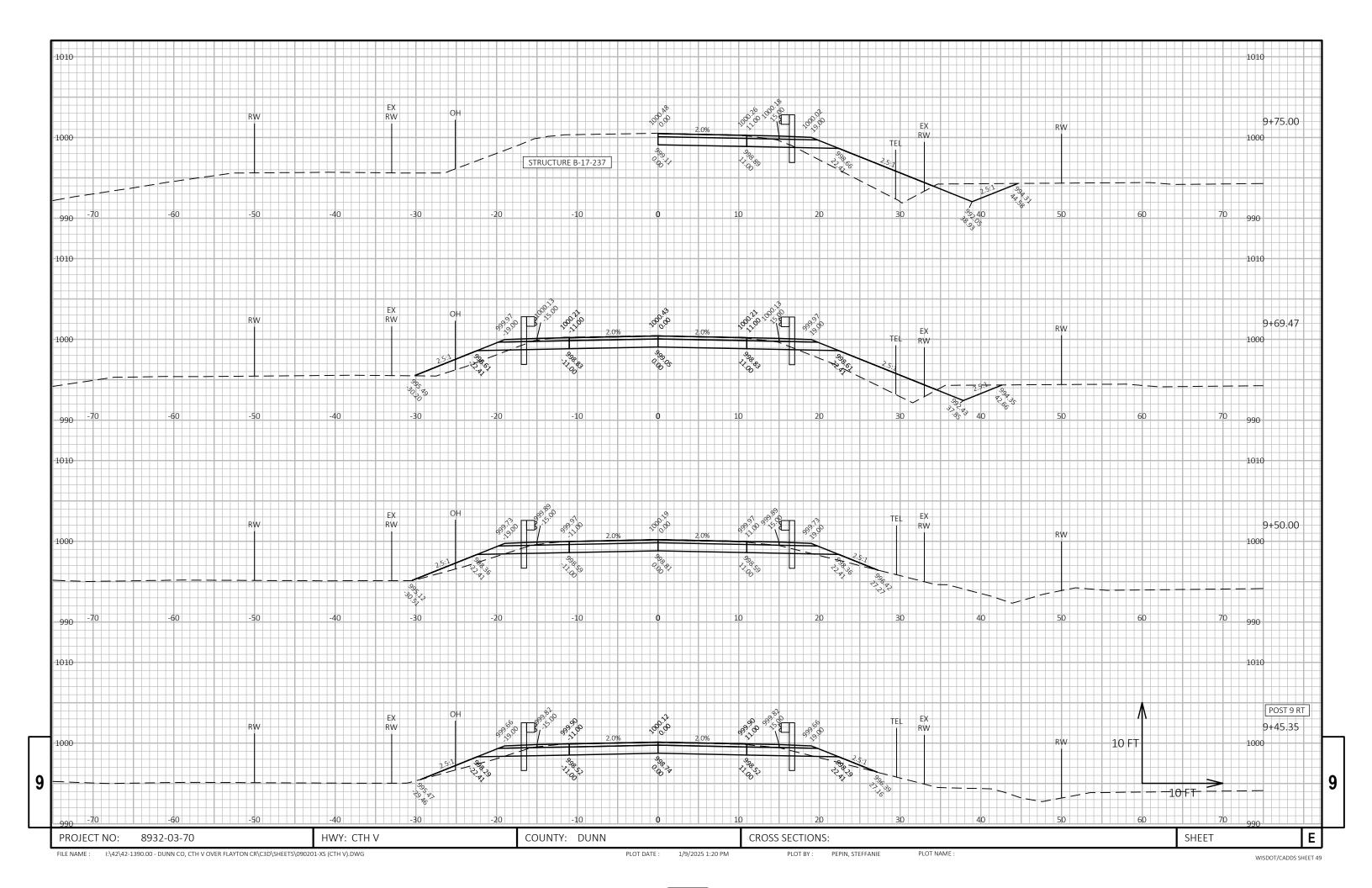
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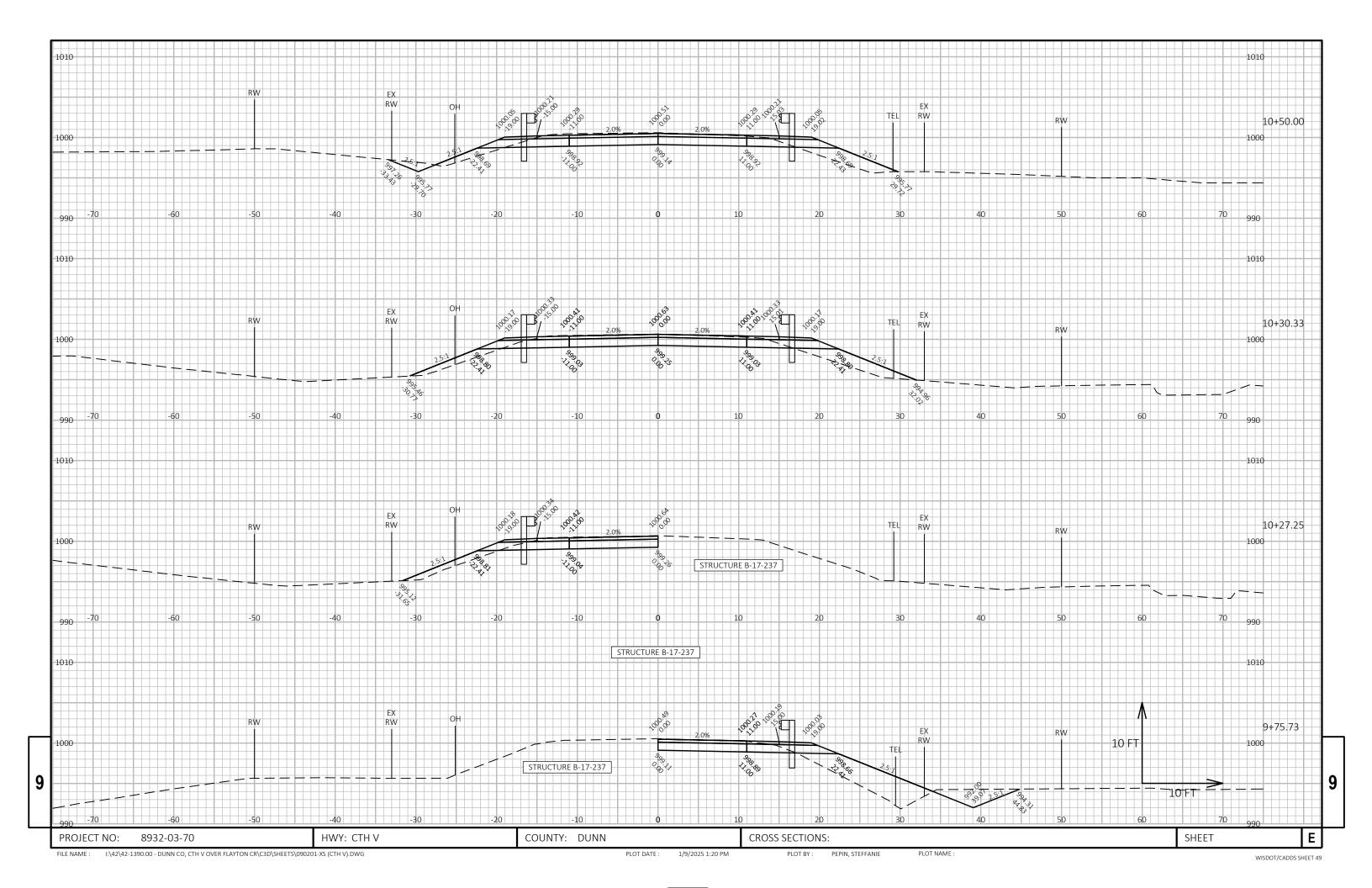
PROJECT NUMBER: 8932-03-70 HWY: CTH V COUNTY: DUNN COMPUTER EARTHWORK DATA SHEET NO: 1

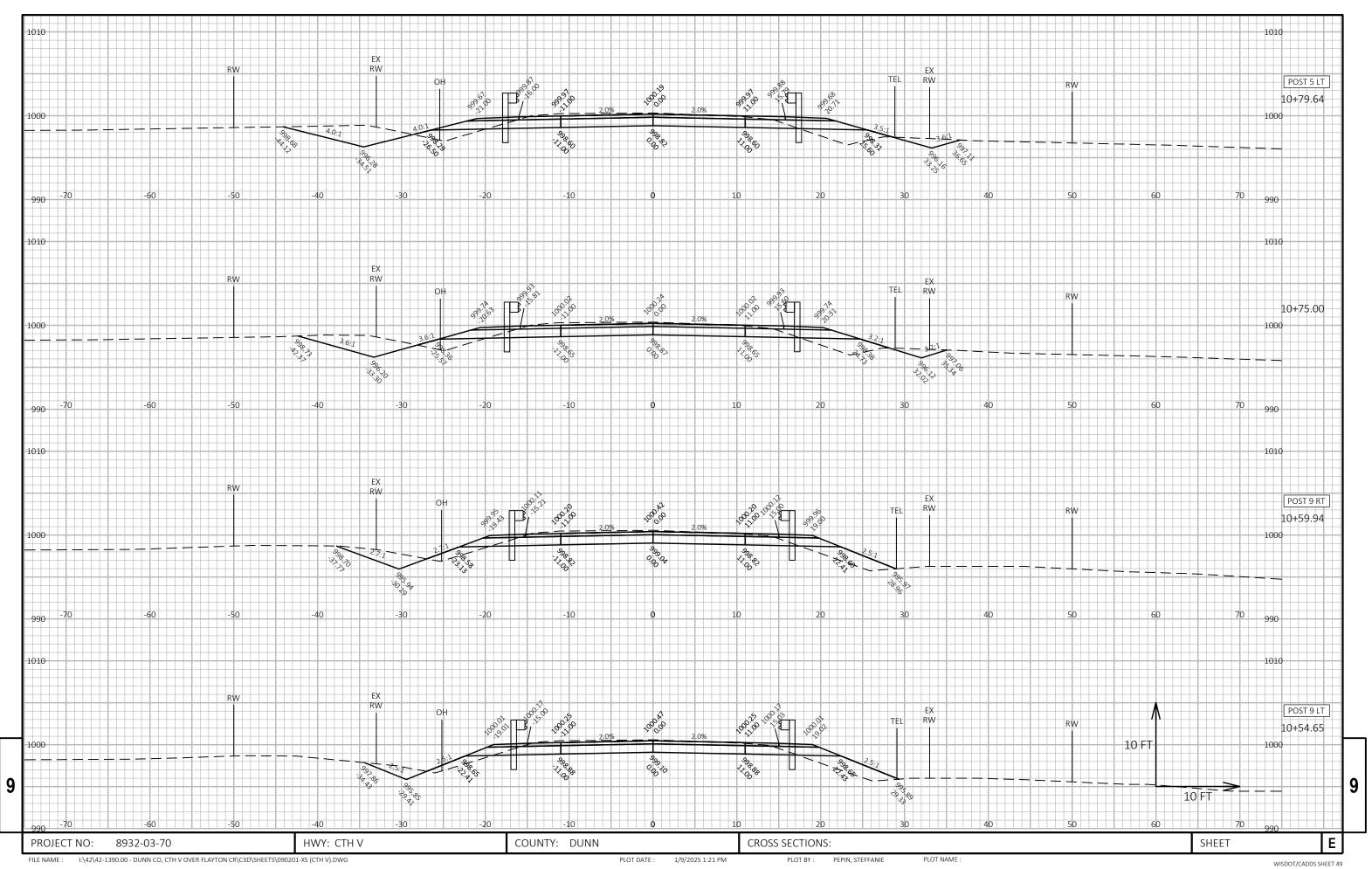


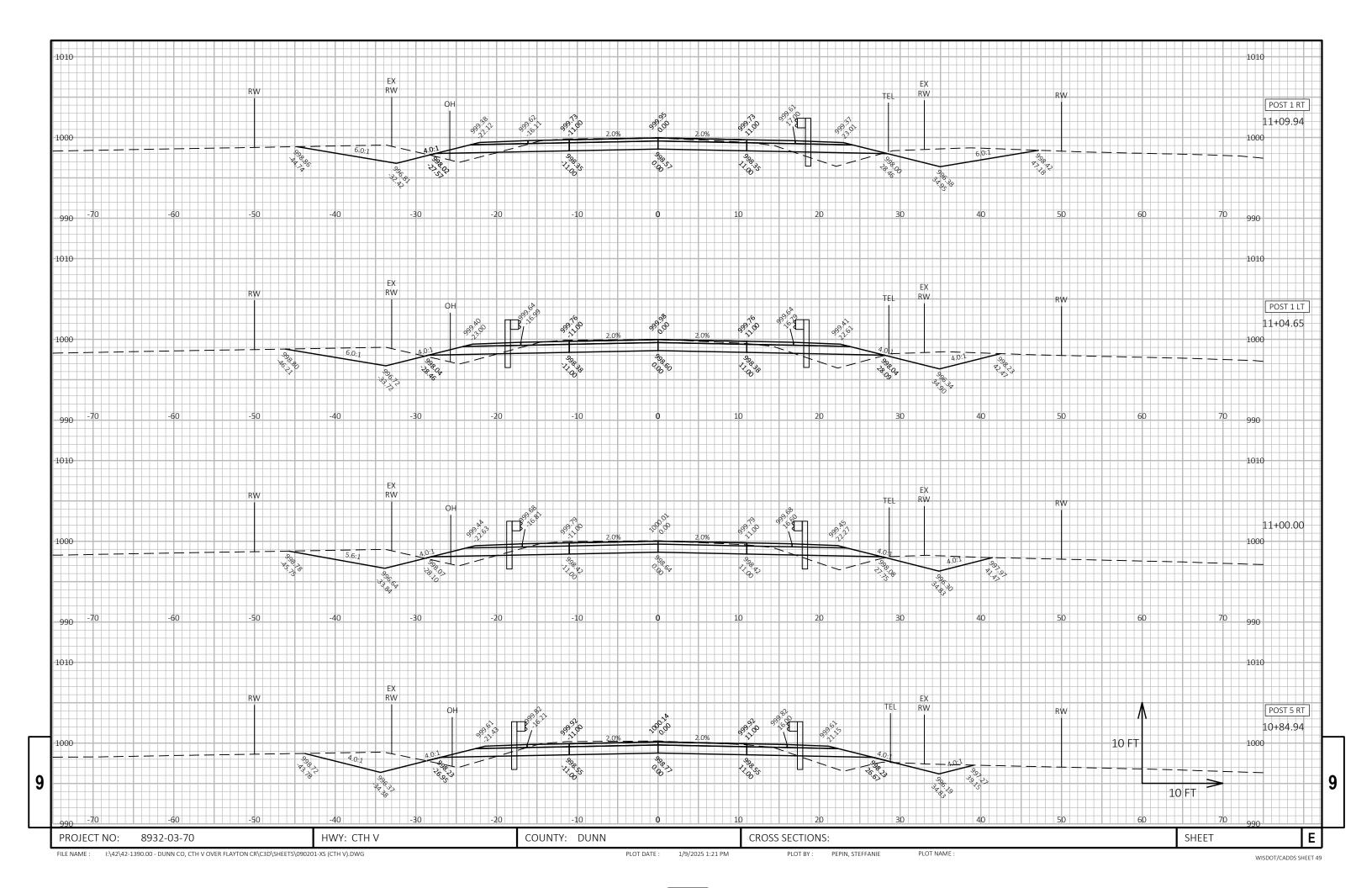


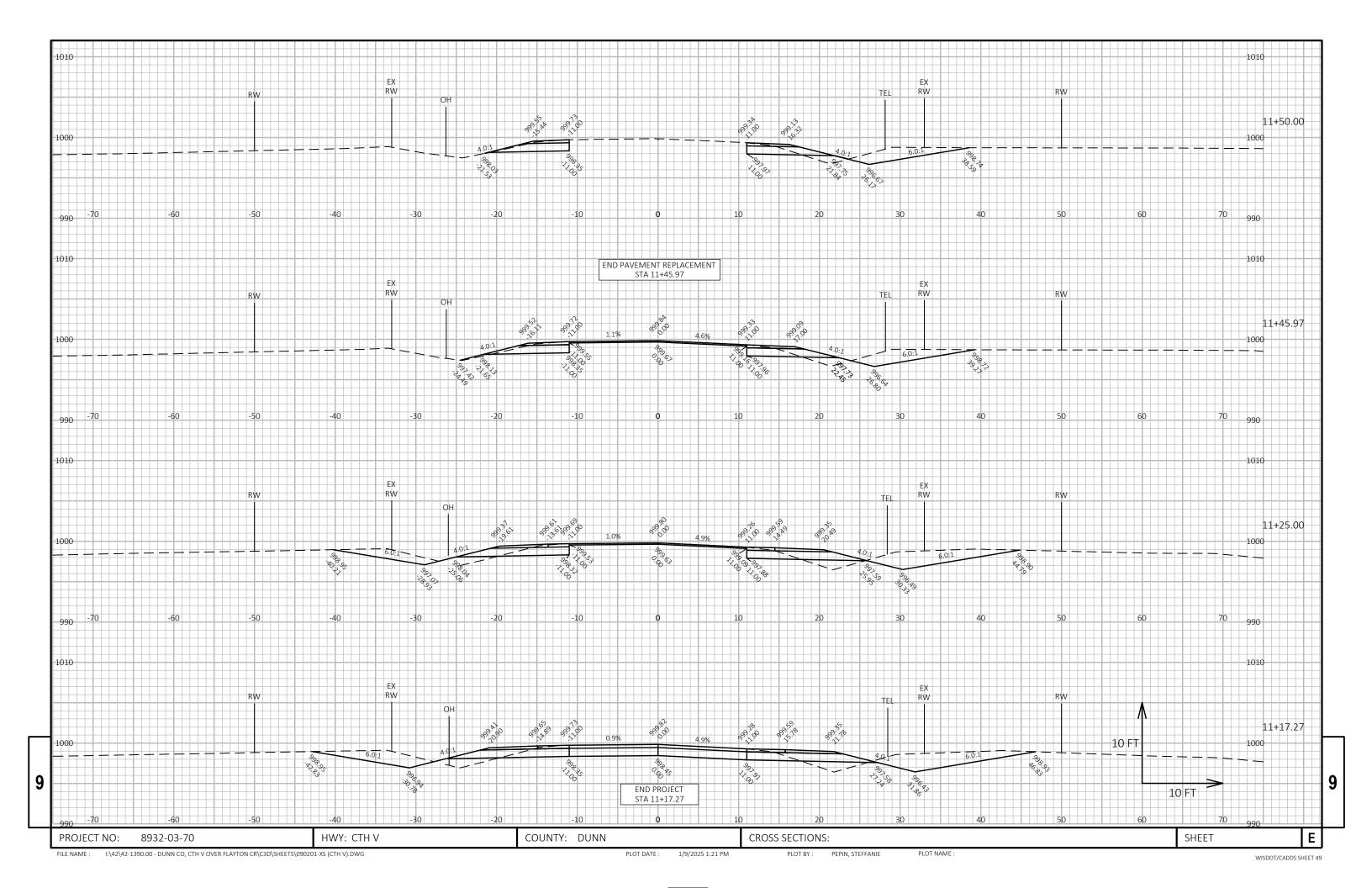


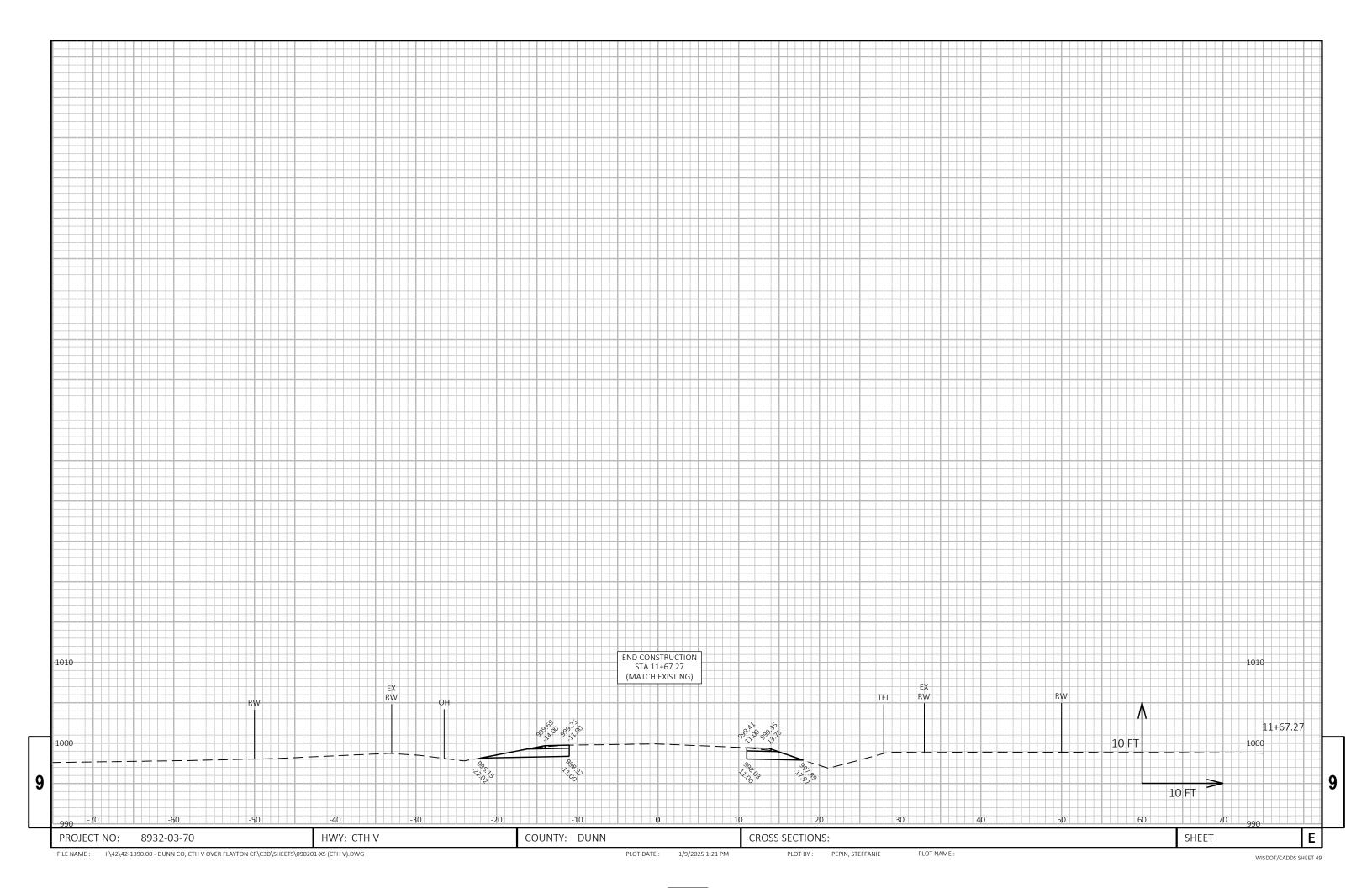












Notes



Wisconsin Department of Transportation

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