Section No.

Section No.

Section No.

Section No.

Section No.

TOTAL SHEETS = 56

DESIGN DESIGNATION

(2025)

(2045)

CONVENTIONAL SYMBOLS

= <100

= <100 = 10

= 50/50

= 25 MPH

= 5%

AADT

A.A.D.T.

DESIGN SPEED

CORPORATE LIMITS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

PROPERTY LINE

D.H.V.

D.D.

Estimate of Quantities

Plan and Profile

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

MARCH 2025 STATE OF WISCONSIN ORDER OF SHEETS DEPARTMENT OF TRANSPORTATION Section No. Typical Sections and Details

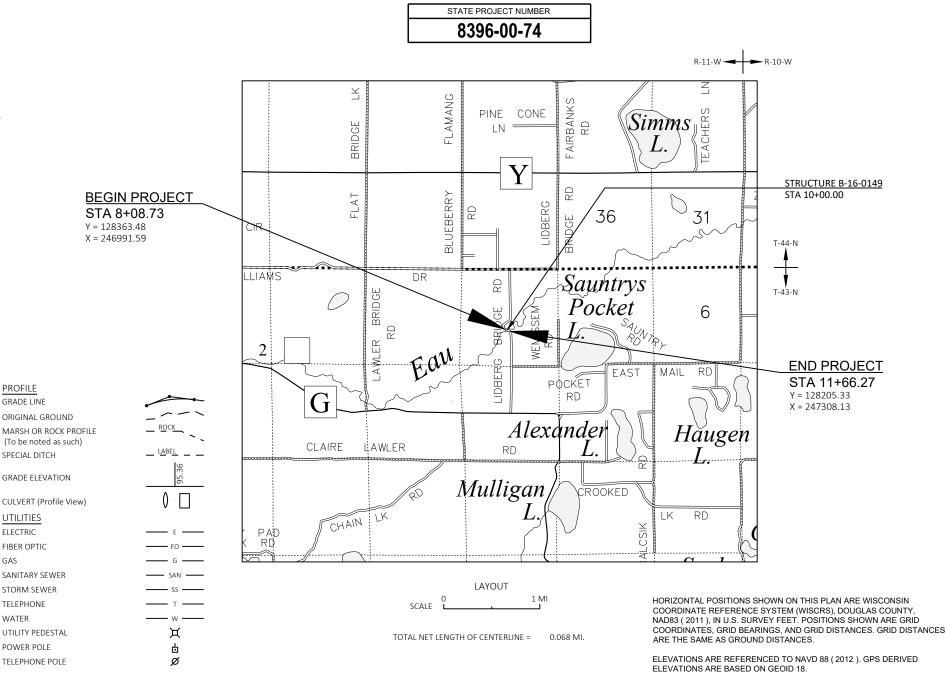
PLAN OF PROPOSED IMPROVEMENT

FEDERAL PROJECT STATE PROJECT CONTRACT PROJECT 8396-00-74 WISC 2025395 1

T WASCOTT, LIDBERG BRIDGE ROAD

EAU CLAIRE RIVER BRIDGE B-16-0149

LOC STR DOUGLAS COUNTY



ACCEPTED FOR ORIGINAL PLANS PREPARED BY 10/16/2024 STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY AYRES ASSOCIATES INC Surveyor

Designer

Project Manage

ATF: 10/28/2024

FILE NAME: I:\42\42-1385.00 - DOUGLAS CO, TN WASCOTT, LIDBERG RD\C3D\SHEETS\010101-TI.DWG

GRADE LINE

SPECIAL DITCH

UTILITIES

FIBER OPTIC

SANITARY SEWER

STORM SEWER

TELEPHONE POLE

ELECTRIC

GRADE ELEVATION

10/14/2024 11:49 AM

WALDERA, KAREN

UTILITIES CONTACTS

BRIGHTSPEED
MICHAEL COUGHLIN
1409 JOHN AVE
SUPERIOR, WI 54880
PHONE: 980-376-1865
EMAIL: michael.coughlin@brightspeed.com

EAST CENTRAL ENERGY
JAKE KLOCKE
2200 FINLAND AVENUE
FINLAYSON, MN 55735
PHONE: 763-691-2041
EMAIL: jake.klocke@ecemn.com

WISCONSIN DNR LIAISON

AMY CRONK WDNR 810 W. MAPLE STREET SPOONER, WI 54801 PHONE: 715-520-3976 EMAIL: amy.cronk@wisconsin.gov

TOWN CONTACT

CHUCK YOUNGQUIST, CHAIR TOWN OF WASCOTT 16362S TOWN HALL ROAD P.O. BOX 159 WASCOTT, WI 54890 PHONE: 651-248-2484 EMAIL: townofwascott@gmail.com

DESIGN PROJECT MANAGER

TOU YANG, PE WISDOT NW REGION 718 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 PHONE: 715-833-5570 EMAIL: tou.yang@dot.wi.gov

DESIGN PROJECT LEADER

DANIEL SYDOW, PE AYRES ASSOCIATES 3433 OAKWOOD HILLS PARKWAY EAU CLAIRE, WI 54701 PHONE: 715-834-3161 EMAIL: sydowd@AyresAssociates.com

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.

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.

ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 2" UPPER LAYER AND A 2" LOWER LAYER. ASPHALTIC SURFACE SHALL USE 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.

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

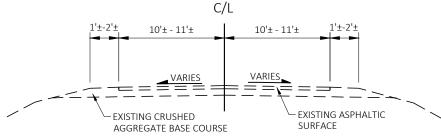
RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP											
		Α	Α		В			С			D		
	SLOPE	RANGE	(PERCENT)	SLOPE	SLOPE RANGE (PERCENT) S		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 = <u>0.542</u> ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = <u>0.322</u> ACRES



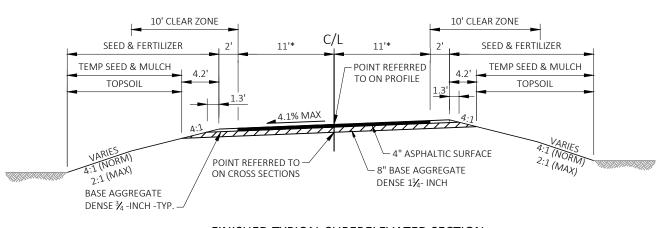


EXISTING TYPICAL SECTION LIDBERG BRIDGE ROAD

10' CLEAR ZONE 10' CLEAR ZONE SEED & FERTILIZER SEED & FERTILIZER TEMP SEED & MULCH TEMP SEED & MULCH POINT REFERRED TO ON PROFILE **TOPSOIL** TOPSOIL 2.25:1 (MAX) 4" ASPHALTIC SURFACE POINT REFERRED TO -2:1 (MAX) ON CROSS SECTIONS - 8" BASE AGGREGATE DENSE 11/4-INCH BASE AGGREGATE

FINISHED TYPICAL SECTION

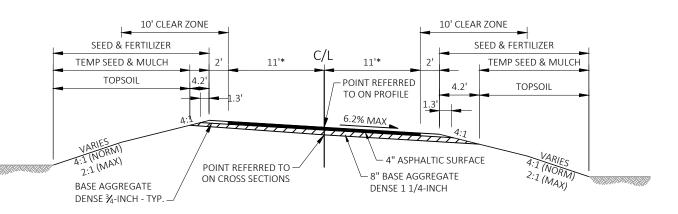
LIDBERG BRIDGE ROAD STA. 8+50.00 TO STA. 9+58.73 STA. 10+41.27 TO STA. 10+91.27 *THE ASPHALT SURFACE LANE SHALL TAPER FROM 13.25' WIDE AT THE ENDS OF THE WINGS TO 11' WIDE AT 50' FROM THE END OF THE BRIDGE AND MATCH EXISTING AT THE ENDS OF THE PROJECT.



DENSE 3/4-INCH -TYP -

FINISHED TYPICAL SUPERELEVATED SECTION

LIDBERG BRIDGE ROAD STA. 8+08.73 TO STA. 8+50.00

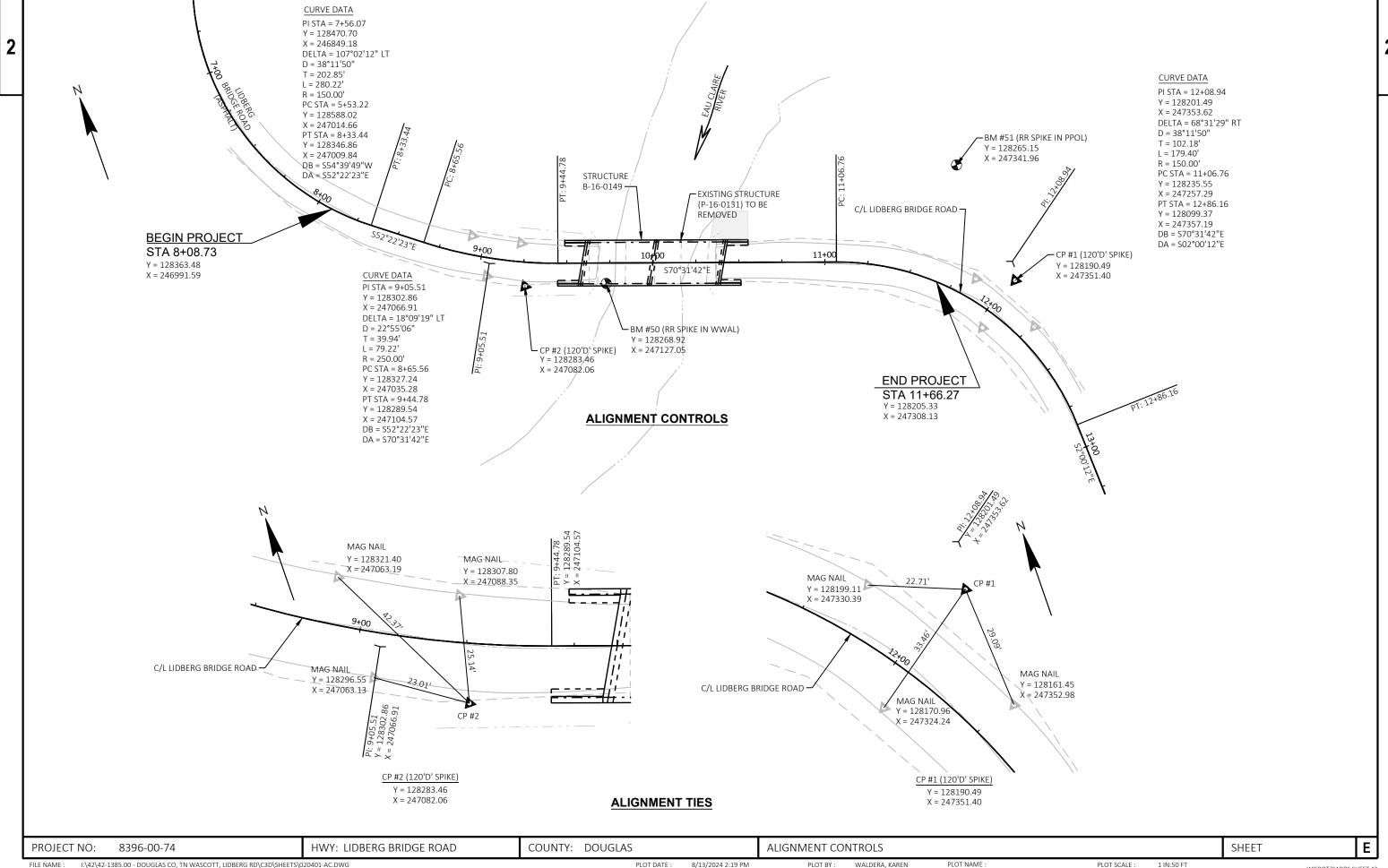


FINISHED TYPICAL SUPERELEVATED SECTION

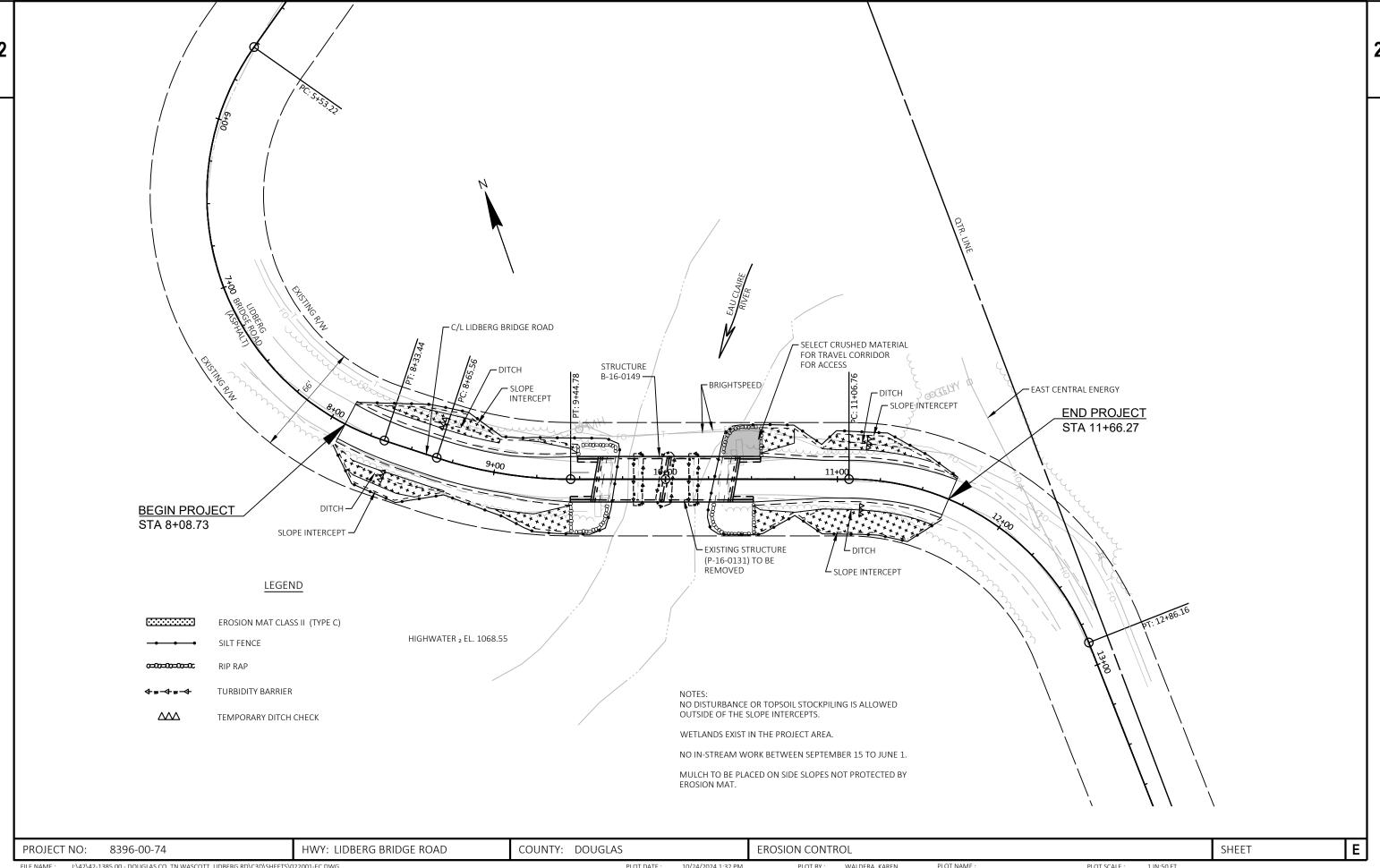
LIDBERG BRIDGE ROAD STA. 10+91.27 TO STA. 11+66.27

COUNTY: DOUGLAS Ε PROJECT NO: 8396-00-74 HWY: LIDBERG BRIDGE ROAD TYPICAL SECTIONS SHEET

10/24/2024 1:52 PM



SUPERELEVATION: SUPERELEVATION DIAGRAM COUNTY: DOUGLAS SHEET E HWY: LIDBERG BRIDGE ROAD PROJECT NO: 8396-00-74 CONSTRUCTION DETAILS I:\42\42-1385.00 - DOUGLAS CO, TN WASCOTT, LIDBERG RD\C3D\SHEETS\021001-CD.DWG LAYOUT NAME - SE PLOT BY: PEDERSON, CARMEN PLOT DATE : 2/16/2024 9:48 AM PLOT NAME : PLOT SCALE : 1 IN:50 FT WISDOT/CADDS SHEET 42



FILE NAME: I:\42\42-1385.00 - DOUGLAS CO, TN WASCOTT, LIDBERG RD\C3D\SHEETS\022001-EC.DWG PLOT DATE: 10/24/2024 1:32 PM PLOT BY: WALDERA, KAREN PLOT NAME: PLOT NAME: PLOT SCALE: 1 IN:50 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - EROSION CONTROL

					8396-00-74
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	4.000	4.000
0004	201.0205	Grubbing	STA	4.000	4.000
0006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-16-0131	EACH	1.000	1.000
8000	205.0100	Excavation Common	CY	215.000	215.000
0010	205.0508.S	Excavation, Hauling, and Disposal of Potential Creosote Contaminated Soil	TON	138.000	138.000
0012	206.1001	Excavation for Structures Bridges (structure) 01. B-16-0149	EACH	1.000	1.000
0014	208.0100	Borrow	CY	125.000	125.000
0016	210.1500	Backfill Structure Type A	TON	220.000	220.000
0018	213.0100	Finishing Roadway (project) 01. 8396-00-74	EACH	1.000	1.000
0020	305.0110	Base Aggregate Dense 3/4-Inch	TON	40.000	40.000
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	415.000	415.000
0024	455.0605	Tack Coat	GAL	50.000	50.000
0026	465.0105	Asphaltic Surface	TON	160.000	160.000
0028	502.0100	Concrete Masonry Bridges	CY	224.000	224.000
0030	502.3200	Protective Surface Treatment	SY	310.000	310.000
0032	505.0400	Bar Steel Reinforcement HS Structures	LB	4,420.000	4,420.000
0034	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	32,710.000	32,710.000
0036	513.4061	Railing Tubular Type M	LF	218.000	218.000
0038	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000
0040	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	280.000	280.000
0042	606.0300	Riprap Heavy	CY	145.000	145.000
0044	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	180.000	180.000
0046	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8396-00-74	EACH	1.000	1.000
0048	619.1000	Mobilization	EACH	1.000	1.000
0050	624.0100	Water	MGAL	15.000	15.000
0052	625.0100	Topsoil	SY	525.000	525.000
0054	627.0200	Mulching	SY	475.000	475.000
0056	628.1504	Silt Fence	LF	920.000	920.000
0058	628.1520	Silt Fence Maintenance	LF	1,840.000	1,840.000
0060	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0062	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0064	628.2027	Erosion Mat Class II Type C	SY	425.000	425.000

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	4.000	4.000
0004	201.0205	Grubbing	STA	4.000	4.000
0006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-16-0131	EACH	1.000	1.000
8000	205.0100	Excavation Common	CY	215.000	215.000
0010	205.0508.S	Excavation, Hauling, and Disposal of Potential Creosote Contaminated Soil	TON	138.000	138.000
0012	206.1001	Excavation for Structures Bridges (structure) 01. B-16-0149	EACH	1.000	1.000
0014	208.0100	Borrow	CY	125.000	125.000
0016	210.1500	Backfill Structure Type A	TON	220.000	220.000
0018	213.0100	Finishing Roadway (project) 01. 8396-00-74	EACH	1.000	1.000
0020	305.0110	Base Aggregate Dense 3/4-Inch	TON	40.000	40.000
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	415.000	415.000
0024	455.0605	Tack Coat	GAL	50.000	50.000
0026	465.0105	Asphaltic Surface	TON	160.000	160.000
0028	502.0100	Concrete Masonry Bridges	CY	224.000	224.000
0030	502.3200	Protective Surface Treatment	SY	310.000	310.000
0032	505.0400	Bar Steel Reinforcement HS Structures	LB	4,420.000	4,420.000
0034	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	32,710.000	32,710.000
0036	513.4061	Railing Tubular Type M	LF	218.000	218.000
0038	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000
0040	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	280.000	280.000
0042	606.0300	Riprap Heavy	CY	145.000	145.000
0044	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	180.000	180.000
0044	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8396-00-74	EACH	1.000	1.000
0048	619.1000	Mobilization	EACH	1.000	1.000
0050	624.0100	Water	MGAL	15.000	15.000
0050	625.0100	Topsoil	SY	525.000	525.000
0052	627.0200	Mulching	SY	475.000	475.000
0054	628.1504	Silt Fence	LF	920.000	920.000
0058		Silt Fence Maintenance	LF		
	628.1520			1,840.000	1,840.000
0060	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0062	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0064	628.2027	Erosion Mat Class II Type C	SY	425.000	425.000
0066	628.6005	Turbidity Barriers	SY	240.000	240.000
0068	628.7504	Temporary Ditch Checks	LF	70.000	70.000
0070	629.0210	Fertilizer Type B	CWT	0.800	0.800
0072	630.0120	Seeding Mixture No. 20	LB	53.000	53.000
0074	630.0200	Seeding Temporary	LB	13.000	13.000
0076		Seed Water	MGAL	28.000	28.000
0078	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000
0800	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	1.000	1.000
0082	637.2230	Signs Type II Reflective F	SF	24.000	24.000
0084	638.2602	Removing Signs Type II	EACH	7.000	7.000
0086	638.3000	Removing Small Sign Supports	EACH	7.000	7.000
8800	642.5001	Field Office Type B	EACH	1.000	1.000
0090	643.0420	Traffic Control Barricades Type III	DAY	2,120.000	2,120.000
0092	643.0705	Traffic Control Warning Lights Type A	DAY	2,830.000	2,830.000
0094	643.0900	Traffic Control Signs	DAY	1,420.000	1,420.000
0096	643.5000	Traffic Control	EACH	1.000	1.000
0098	645.0111	Geotextile Type DF Schedule A	SY	40.000	40.000
0030	043.0111	Geotextile Type Di Golledule A	01	40.000	40.000

01/21/2025 10:40:54

Estimate Of Quantities	Page	2

83		

Line	Item	Item Description	Unit	Total	Qty
0100	645.0120	Geotextile Type HR	SY	290.000	290.000
0102	650.4500	Construction Staking Subgrade	LF	275.000	275.000
0104	650.5000	Construction Staking Base	LF	275.000	275.000
0106	650.6501	Construction Staking Structure Layout (structure) 01. B-16-0149	EACH	1.000	1.000
0108	650.9911	Construction Staking Supplemental Control (project) 01. 8396-00-74	EACH	1.000	1.000
0110	650.9920	Construction Staking Slope Stakes	LF	275.000	275.000
0112	690.0150	Sawing Asphalt	LF	44.000	44.000
0114	715.0502	Incentive Strength Concrete Structures	DOL	1,344.000	1,344.000
0116	999.2005.S	Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000
0118	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0120	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0122	SPV.0090	Special 01. Removing Existing Timber Piling	LF	100.000	100.000
0124	SPV.0195	Special 01. Select Crushed Material for Travel Corridor	TON	16.000	16.000



CI	FΔF	ING	& G	RIIR	BING	

				201.0105	201.0205
				CLEARING	GRUBBING
STATION	TO	STATION	LOCATION	STA	STA
8+00	-	12+00	MAINLINE	4	4
			TOTAL 0010	4	4

NOTE: TREES HAVE BEEN CUT BY OTHERS.

EXCAVATION, HAULING, AND DISPOSAL OF POTENTIAL CREOSOTE CONTAMINATED SOIL

205.0508.S

EXCAVATION, HAULING, AND DISPOSAL OF POTENTIAL CREOSOTE CONTAMINATED SOIL

	TON	LOCATION	STATION	TO	STATION
ı	138	MAINLINE	10+39	-	9+63
	138	TOTAL 0010			

FINISHING ROADWAY

213.0100.01 FINISHING ROADWAY

PROJECT (PROJECT) (01. 8396-00-74)

EACH

8396-00-74

1

TOTAL 0010

BASE AGGREGATE DENSE

				305.0110	305.0120
				AGGREGATE	AGGREGATE
				DENSE 3/4-INCH	DENSE 1 1/4-
STATION	TO	STATION	LOCATION	TON	TON
8+08	-	9+58	MAINLINE	20	225
10+41	-	11+66	MAINLINE	20	190
			TOTAL 0010	40	415

ASPHALTIC SURFACE

				455.0605	465.0105 ASPHALTIC
				TACK COAT	SURFACE
STATION	TO	STATION	LOCATION	GAL	TON
8+08	-	9+58	MAINLINE	27	85
10+41	-	11+66	MAINLINE	23	75
			TOTAL 0010	50	160

LIDBERG BRIDGE ROAD 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	Borrow 208.0100
8+08.73 - 9+58.73	LIDBERG BRIDGE RD	78	38	127	165	-125	0	125
10+41.27 - 11+66.27	LIDBERG BRIDGE RD	137	32	60	78	27	27	0
	TOTAL	215	-	187	243			125

- 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

MAINTENANCE AND REPAIR OF HAUL ROADS			MOBILI	ZATION_	<u>WATER</u>		
		618.0100.01 MAINTENANCE AND		619.1000		624.0100 WATER	
		REPAIR OF HAUL ROADS (PROJECT) (01. 8396-00-	LOCATION	MOBILIZATION EACH	LOCATION	MGAL	
CATEGORY	LOCATION	74) EACH	PROJECT LIMITS	1	COMPACTION DUST CONTROL	7 8	
0030	PROJECT LIMITS	1	TOTAL 0010	1	TOTAL 0010	15	
	TOTAL 0030	1					

EROSION CONTROL ITEMS

				628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE	628.2027 EROSION MAT CLASS ILTYPE C	628.6005 TURBIDITY BARRIERS	628.7504 TEMPORARY DITCH CHECKS
STATION	TO	STATION	LOCATION	LF	LF	SY	SY	LF
8+08	_	9+58	MAINLINE	390	780	150		28
10+41	-	11+66	MAINLINE	345	690	190		28
		10+00		-	-		190	_
			UNDISTRIBUTED	185	370	85	50	14
			TOTAL 0010	920	1,840	425	240	70

RESTORATION ITEMS

MOBILIZ	ATIONS EROSION	I CONTROL					625.0100	627.0200	629.0210	630.0120	630.0200	630.0500
	628.1905 MOBILIZATIONS	628.1910 MOBILIZATIONS EMERGENCY	STATION	TO	STATION	LOCATION	TOPSOIL SY	MULCHING SY	FERTILIZER TYPE B CWT	SEEDING MIXTURE NO. 20 LB	SEEDING TEMPORARY LB	SEED WATER MGAL
LOCATION	EROSION CONTROL EACH	EROSION CONTROL EACH	8+08 10+41	-	9+58 11+66	MAINLINE MAINLINE	210 210	220 160	0.3 0.3	22 20	5 5	11 11
PROJECT LIMITS	4	4				UNDISTRIBUTED	105	95	0.2	11	3	6
TOTAL 0010	4	4				TOTAL 0010	525	475	0.8	53	13	28 N THIS SHEET

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 8396-00-74 HWY: LIDBERG BRIDGE ROAD COUNTY: DOUGLAS MISCELLANEOUS QUANTITIES SHEET E

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						<u>SIGNS</u>								CONSTRUCTION ST	TAKING SUPPLE	MENTAL CONTROL
					634.0614 POSTS	634.0616 POSTS	637.2230			638.3000 REMOVING					CONS	650.9911.01 TRUCTION STAKING LEMENTAL CONTROL
			CICNI	CICNICIZE	WOOD 4X6-	WOOD 4X6-	SIGNS TYPE			SMALL SIGN						CT) (01. 8396-00-74)
	STATION	LOCATION	SIGN CODE	(INCHES)	INCH X 14-FT EACH	INCH X 16-FT EACH	REFLECTIVE SF	F SIGNS T EAC		SUPPORTS EACH		MESSAGE		PROJECT		EACH
	31/11/01/	EGGATION	CODE	(IIIIII)	E/ (CIT	E/ (C/)	- 31	E/(c		Erterr		1112337102	_			
	4+50	RT	W1-3L	36x36		1	9	1		1				8396-00-74		1
			W13-1	18x18			3				"25"	, SHARES POST	-	TOTAL 0010		1
	9+64	RT			-			1		1				TOTAL OUT		•
	9+66	LT	W5-52L	12x36	1		3	1		1						
	9+66	RT	W5-52R	12x36	1		3	1		1						
	10+37 10+37	LT RT	W5-52L W5-52R	12x36 12x36	1 1		3 3	1		1 1					SAWING ASPI	HALT
	10+37	LT	W3-32N	12,30				1		1						
	13+85	LT	W1-3L	36x36		1	9	1		1						690.0150
	13.03	2.	W13-1	18x18			3				"25"	, SHARES POST	-			SAWING
				10/10			J				20	, 5		STATION	LOCATION	ASPHALT LF
		TOTAL 0010			4	1	24	<u> </u>		7	_				LOCATION	<u>LF</u>
														8+08	MAINLINE	22
														11+66	MAINLINE	22
															TOTAL 0010	44
								TRAFFIC C	ONTRO	L.						
	FIELD OFFIC	CE TYPE P														
		<u>.E IYPE B</u>														
	TILLE OITIN							643.0420		643.0705		643.0900	643.5000			
	TIELD CITIN							TRAFFIC		TRAFFIC			643.5000			
	TIEED CITIC	642.5001						TRAFFIC CONTROL		TRAFFIC CONTROL		TRAFFIC		MAIN	ITAINING BIRD	DETERRENT SYSTEM
	TIELD OTTIN	642.5001						TRAFFIC CONTROL BARRICADES		TRAFFIC CONTROL WARNING		TRAFFIC CONTROL	TRAFFIC	MAIN	ITAINING BIRD	DETERRENT SYSTEM
		642.5001 FIELD OFFICE				DURATION	ı	TRAFFIC CONTROL BARRICADES TYPE III		TRAFFIC CONTROL WARNING LIGHTS TYPE A		TRAFFIC CONTROL SIGNS	TRAFFIC CONTROL	MAIN	ITAINING BIRD	DETERRENT SYSTEM 999.2005.S.01
	LOCATION	642.5001		_	LOCATION	DURATION DAYS		TRAFFIC CONTROL BARRICADES	EACH	TRAFFIC CONTROL WARNING	EACH	TRAFFIC CONTROL	TRAFFIC	MAIN	ITAINING BIRD	
		642.5001 FIELD OFFICE TYPE B		_		DAYS	EACH	TRAFFIC CONTROL BARRICADES TYPE III DAY	EACH	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY		TRAFFIC CONTROL SIGNS DAY	TRAFFIC CONTROL EACH	MAIN	ITAINING BIRD	999.2005.S.01
		642.5001 FIELD OFFICE TYPE B		_	SDD 15C02		ı	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800		TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400	EACH 12	TRAFFIC CONTROL SIGNS DAY	TRAFFIC CONTROL EACH	MAIN		999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00)
	LOCATION	642.5001 FIELD OFFICE TYPE B EACH		_		DAYS	EACH	TRAFFIC CONTROL BARRICADES TYPE III DAY	EACH	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY		TRAFFIC CONTROL SIGNS DAY	TRAFFIC CONTROL EACH	MAIN STATION	ITAINING BIRD LOCATION	999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM
	LOCATION	642.5001 FIELD OFFICE TYPE B EACH			SDD 15C02 UNDISTRIBUTED	DAYS	EACH	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800 320	EACH	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400 430		TRAFFIC CONTROL SIGNS DAY 1,200 220	TRAFFIC CONTROL EACH 1 	STATION	LOCATION	999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00) EACH
	LOCATION PROJECT LIMITS	642.5001 FIELD OFFICE TYPE B EACH 1			SDD 15C02	DAYS	EACH	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800	EACH	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400		TRAFFIC CONTROL SIGNS DAY	TRAFFIC CONTROL EACH			999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00)
	LOCATION PROJECT LIMITS	642.5001 FIELD OFFICE TYPE B EACH 1			SDD 15C02 UNDISTRIBUTED	DAYS	EACH	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800 320	EACH	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400 430		TRAFFIC CONTROL SIGNS DAY 1,200 220	TRAFFIC CONTROL EACH 1 	<u>STATION</u> 10+00	LOCATION	999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00) EACH
	LOCATION PROJECT LIMITS	642.5001 FIELD OFFICE TYPE B EACH 1			SDD 15C02 UNDISTRIBUTED	DAYS	EACH	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800 320	EACH	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400 430		TRAFFIC CONTROL SIGNS DAY 1,200 220	TRAFFIC CONTROL EACH 1 	<u>STATION</u> 10+00	LOCATION	999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00) EACH
	LOCATION PROJECT LIMITS	642.5001 FIELD OFFICE TYPE B EACH 1			SDD 15C02 UNDISTRIBUTED	DAYS	EACH	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800 320	EACH	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400 430		TRAFFIC CONTROL SIGNS DAY 1,200 220	TRAFFIC CONTROL EACH 1 	<u>STATION</u> 10+00	LOCATION	999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00) EACH
	LOCATION PROJECT LIMITS	642.5001 FIELD OFFICE TYPE B EACH 1	LICTION S		SDD 15C02 UNDISTRIBUTED	DAYS	EACH	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800 320	EACH	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400 430		TRAFFIC CONTROL SIGNS DAY 1,200 220	TRAFFIC CONTROL EACH 1 	<u>STATION</u> 10+00	LOCATION	999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00) EACH
	LOCATION PROJECT LIMITS	642.5001 FIELD OFFICE TYPE B EACH 1	UCTION S		SDD 15C02 UNDISTRIBUTED	DAYS	EACH	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800 320	EACH	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400 430		TRAFFIC CONTROL SIGNS DAY 1,200 220	TRAFFIC CONTROL EACH 1 	<u>STATION</u> 10+00	LOCATION	999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00) EACH
	LOCATION PROJECT LIMITS	642.5001 FIELD OFFICE TYPE B EACH 1		TAKING.	SDD 15C02 UNDISTRIBUTED TOTAL 0010	DAYS 100	EACH	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800 320 2,120	24	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400 430 2,830	12	TRAFFIC CONTROL SIGNS DAY 1,200 220 1,420	TRAFFIC CONTROL EACH 1 1	<u>STATION</u> 10+00	LOCATION	999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00) EACH
	LOCATION PROJECT LIMITS	642.5001 FIELD OFFICE TYPE B EACH 1	650	. TAKING 0.4500	SDD 15C02 UNDISTRIBUTED TOTAL 0010 650.5000	DAYS 100 650.9920	EACH 18	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800 320 2,120	24	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400 430	12	TRAFFIC CONTROL SIGNS DAY 1,200 220 1,420	TRAFFIC CONTROL EACH 1 1	<u>STATION</u> 10+00	LOCATION	999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00) EACH
	LOCATION PROJECT LIMITS	642.5001 FIELD OFFICE TYPE B EACH 1	650 CONS	. TAKING 0.4500 TRUCTIO	SDD 15C02 UNDISTRIBUTED TOTAL 0010 650.5000 CONSTRUCTIO	DAYS 100 650.9920 CONSTRUCTION	EACH 18	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800 320 2,120	24	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400 430 2,830	12	TRAFFIC CONTROL SIGNS DAY 1,200 220 1,420 UCTURE LAY	TRAFFIC CONTROL EACH 1 1	<u>STATION</u> 10+00	LOCATION	999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00) EACH
	LOCATION PROJECT LIMITS	642.5001 FIELD OFFICE TYPE B EACH 1	650 CONS N ST	. TAKING 0.4500	SDD 15C02 UNDISTRIBUTED TOTAL 0010 650.5000	DAYS 100 650.9920	EACH 18	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800 320 2,120	24	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400 430 2,830	12	TRAFFIC CONTROL SIGNS DAY 1,200 220 1,420 UCTURE LAY	TRAFFIC CONTROL EACH 1 1	<u>STATION</u> 10+00	LOCATION	999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00) EACH
STATION	LOCATION PROJECT LIMITS TOTAL 0010	642.5001 FIELD OFFICE TYPE B EACH 1	650 CONS N ST SUB	.TAKING 0.4500 TRUCTIO 'AKING	SDD 15C02 UNDISTRIBUTED TOTAL 0010 650.5000 CONSTRUCTIO N STAKING	DAYS 100 650.9920 CONSTRUCTION STAKING SLOPE	EACH 18	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800 320 2,120	24	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400 430 2,830	12	TRAFFIC CONTROL SIGNS DAY 1,200 220 1,420 UCTURE LAY 650.6 CONSTRUCTURE STRUCTURE	TRAFFIC CONTROL EACH 1 - 1 TOUT 5501.01 TION STAKING JIRE LAYOUT	<u>STATION</u> 10+00	LOCATION	999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00) EACH
STATION	LOCATION PROJECT LIMITS TOTAL 0010	642.5001 FIELD OFFICE TYPE B EACH 1 1 CONSTR.	650 CONS N ST SUB	TAKING 0.4500 TRUCTIO TAKING GRADE	SDD 15C02 UNDISTRIBUTED TOTAL 0010 650.5000 CONSTRUCTIO N STAKING BASE	DAYS 100 650.9920 CONSTRUCTION STAKING SLOPE STAKES	EACH 18	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800 320 2,120	24 CONSTR	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400 430 2,830 UCTION STAK	12	TRAFFIC CONTROL SIGNS DAY 1,200 220 1,420 UCTURE LAY 650.6 CONSTRUCTU (STRUCTURE)	TRAFFIC CONTROL EACH 1 1 TOUT 5501.01 TION STAKING JRE LAYOUT (01. B-16-0149)	<u>STATION</u> 10+00	LOCATION	999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00) EACH
STATION 8+08	LOCATION PROJECT LIMITS TOTAL 0010	642.5001 FIELD OFFICE TYPE B EACH 1 1 CONSTR.	650 CONS' N ST SUB	TAKING 0.4500 TRUCTIO TAKING GRADE	SDD 15C02 UNDISTRIBUTED TOTAL 0010 650.5000 CONSTRUCTIO N STAKING BASE	DAYS 100 650.9920 CONSTRUCTION STAKING SLOPE STAKES	EACH 18	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800 320 2,120	24 CONSTR	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400 430 2,830 UCTION STAK	12	TRAFFIC CONTROL SIGNS DAY 1,200 220 1,420 UCTURE LAY 650.6 CONSTRUCTU (STRUCTURE)	TRAFFIC CONTROL EACH 1 - 1 TOUT 5501.01 TION STAKING JIRE LAYOUT	<u>STATION</u> 10+00	LOCATION	999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00) EACH
	LOCATION PROJECT LIMITS TOTAL 0010 TO STATION	642.5001 FIELD OFFICE TYPE B EACH 1 1 LOCATION	650 CONS' N ST SUB	TAKING 0.4500 TRUCTIO AKING GRADE LF	SDD 15C02 UNDISTRIBUTED TOTAL 0010 650.5000 CONSTRUCTIO N STAKING BASE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	EACH 18	TRAFFIC CONTROL BARRICADES TYPE III DAY 1,800 320 2,120	EACH 24 CONSTR	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY 2,400 430 2,830 UCTION STAK	12	TRAFFIC CONTROL SIGNS DAY 1,200 220 1,420 UCTURE LAY 650.6 CONSTRUCTU (STRUCTURE)	TRAFFIC CONTROL EACH 1 1 TOUT 5501.01 TION STAKING JRE LAYOUT (01. B-16-0149)	<u>STATION</u> 10+00	LOCATION	999.2005.S.01 MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 10+00) EACH

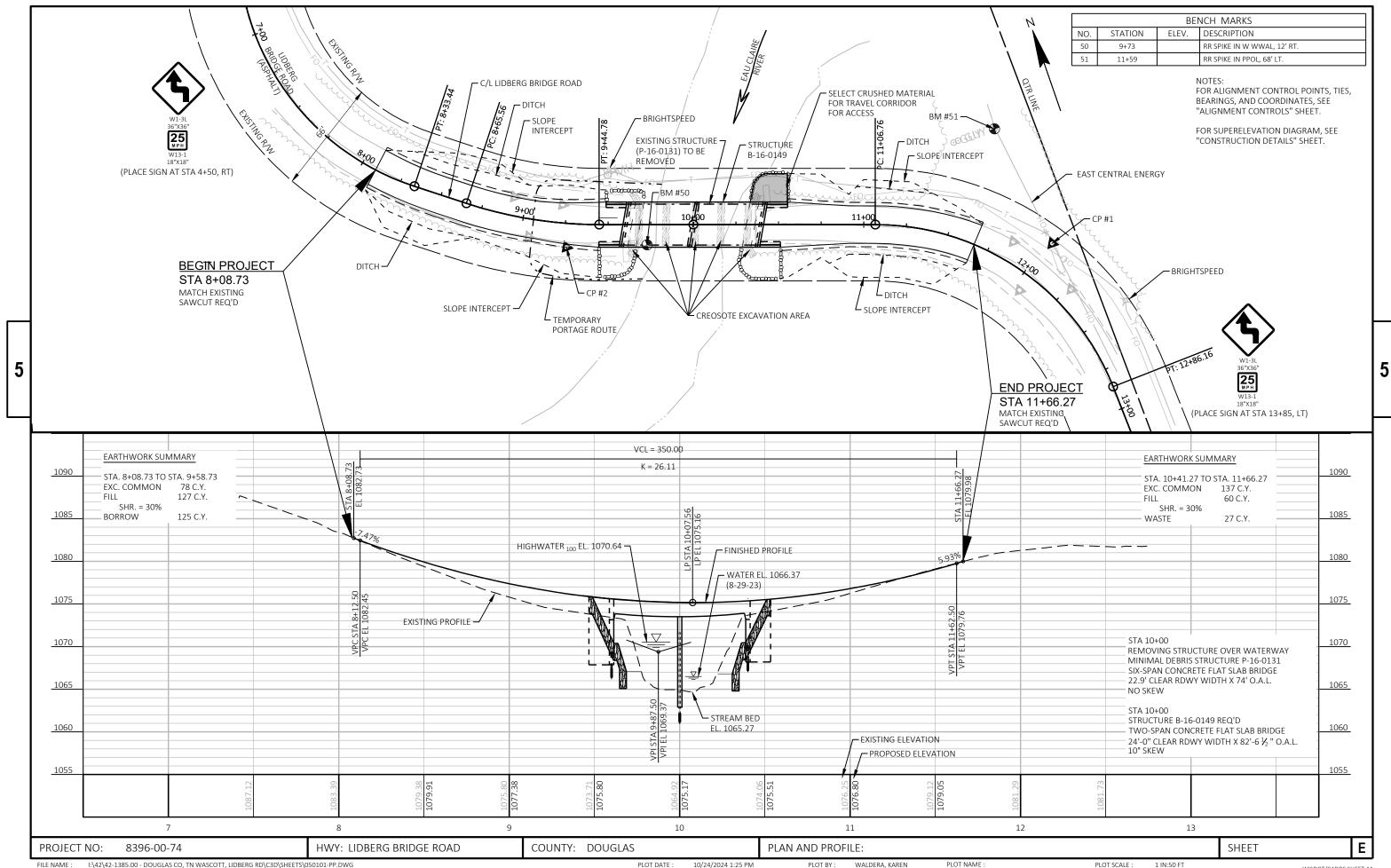
ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJ	JECT NO: 8396-00-74	HWY: LIDBERG BRIDGE ROAD	COUNTY: DOUGLAS	MISCELLANEOUS QUANTITIES	SHEET	E
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TOTAL 0020

TOTAL 0010 275

275



PLOT NAME

PLOT SCALE : 1 IN:50 FT

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)
13C19-03	HMA LONGITUDINAL JOINTS
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES

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

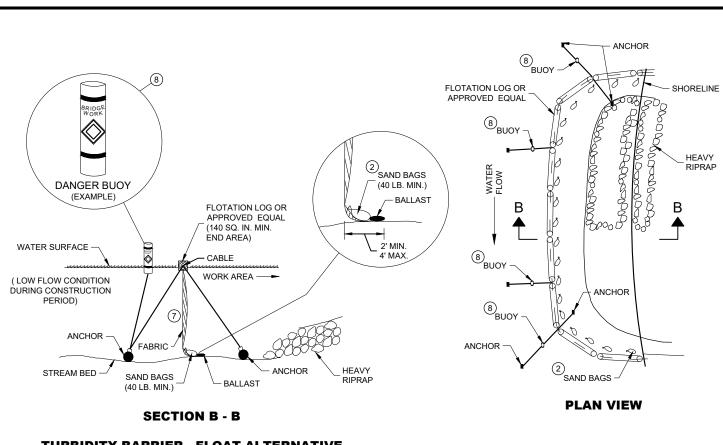
(WHEN REQUIRED BY THE ENGINEER)



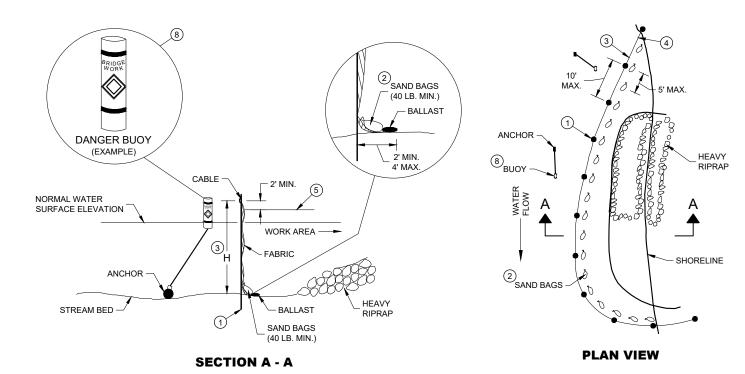
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TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6



TURBIDITY BARRIER - STANDARD POST INSTALLATION

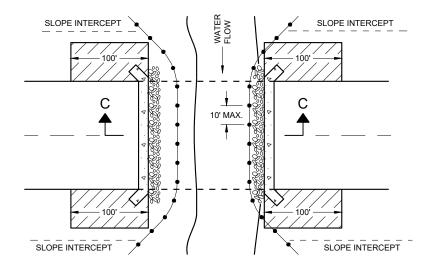
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

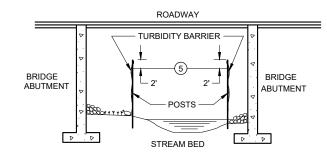
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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







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**

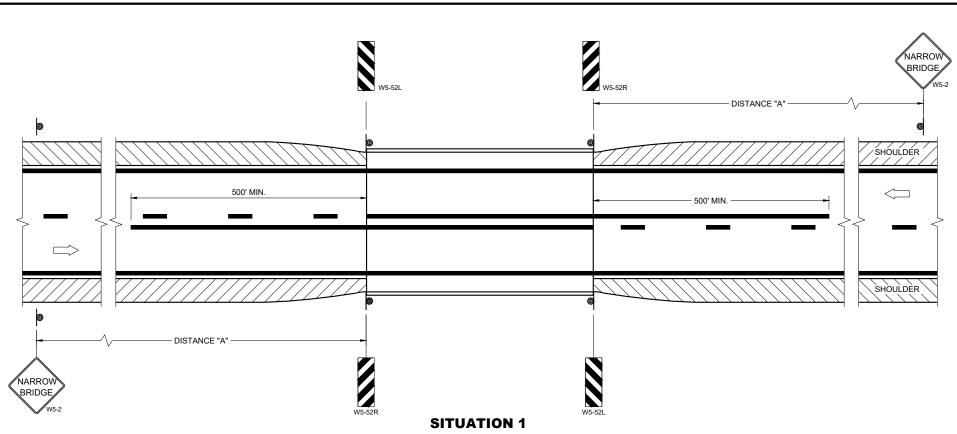
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE WORK ZONE ENGINEER

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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	





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 F Reflective
- 2. Color:

Background - Yellow Message - Black

3. W1-3L is the same as W1-3R except the arrow is reversed along the vertical centerline.

A K K M M M M
H H
A E D
W1-3R

SIZE Α С 0 1 1/2 3/8 1/2 3 1/2 8 3/8 1 1/8 11 ⁵/₈ 2 3/4 1 1/8 2 1/2 5/8 7/8 3 4.0 24 7 4 5 1/4 4 1/2 12 1/2 1 5/8 17 3/8 10 1/2 4 1/4 3 5/8 5/8 1 5/8 1 1/4 36 2 1/4 9.0 5 1/4 4 1/2 12 1/2 1 5/8 17 3/8 10 1/2 4 1/4 1 5/8 3 5/8 1 1/4 36 2 1/4 9.0 5/8 5 1/4 4 1/2 12 1/2 1 5/8 17 3/8 10 1/2 4 1/4 3 5/8 1 36 2 1/4 1 1/4 9.0 5/8 3/4 5 1/4 12 1/2 1 5/8 17 3/8 10 1/2 4 1/4 1 5/8 3 % 1 $2^{1/4}$ $1^{-1}/_{4}$ 9.0 36 2 1/8 4 7/8 1 1/4 1 5/8 3/4 16 \(\frac{5}{8} \) 2 \(\frac{1}{4} \) 23 \(\frac{1}{4} \) 14 \(5 \) \(\frac{5}{8} \) 8 48 3

COUNTY:

STANDARD SIGN W1 - 3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED M For State Traffic Engineer

DATE 3/23/2023 PLATE NO. W1-3.9 SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W13.dgn

PROJECT NO:

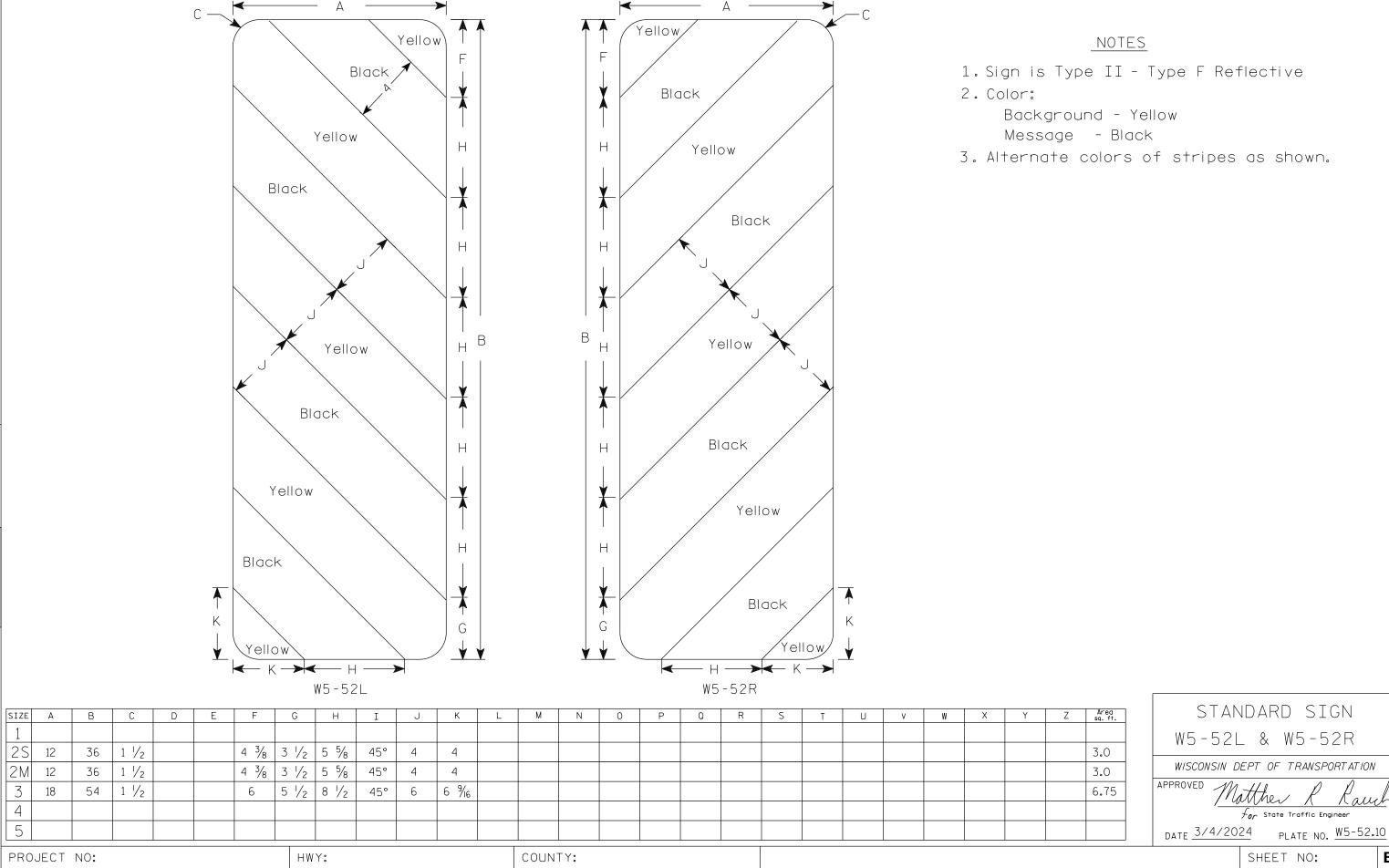
PLOT DATE: 30-OCT 2023 9:16

PLOT BY : dotc4c

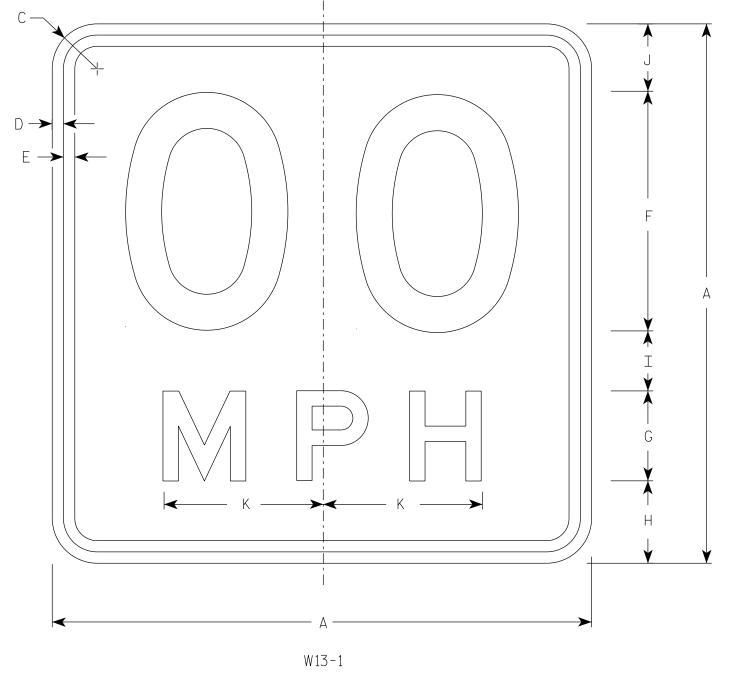
PLOT NAME :

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

HWY:



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



NOTES

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

Background - Yellow Message - Black

- 3. Message Series See Note 5
- 4. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
- 5. Line 1 is Series D Line 2 is Series E

 \star For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs. For $36" \times 36"$ Warning Signs, use $24" \times 24"$ W13-1 signs.

SIZE	E A	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Ρ	Q	R	S	Т	U	V	w	X	Y	Z	Area sq. ft.
1	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 25	3 18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2N	1 18	3	1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	2.	4	1 1/2	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
4	30	5	2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	3(5	2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10																9.00

COUNTY:

STANDARD SIGN

W13-1

WISCONSIN DEPT OF TRANSPORTATION APPROVED Matthew & Kauch

DATE 1/8/2024 PLATE NO. W13-1.17

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W131.dgn

HWY:

PROJECT NO:

PLOT DATE: 8-Jan 2024 11:07

PLOT BY : dotc4c

PLOT NAME :

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

8396-00-74



LIVE LOAD:

SELECT CRUSHED

1'-31/4"

12'-0"

TYP

END OF SLAB

STA 10+41 27

C/L OF E. ABUT.

STA. 10+40.00

4

EL. 1067.65

LIST OF DRAWINGS:

STRUCTURE DETAILS SUBSURFACE EXPLORATION WEST ABUTMENT

EAST ABUTMENT

14. SUPERSTRUCTURE

15. SUPERSTRUCTURE PLAN

13. PIER

GENERAL PLAN
TYPICAL SECTION, QUANTITIES AND NOTES

WEST ABUTMENT PILE LAYOUT AND BILL OF BARS

12. EAST ABUTMENT PILE LAYOUT AND BILL OF BARS

WEST ABUTMENT WING 1 DETAILS

WEST ABUTMENT WING 2 DETAILS

10. EAST ABUTMENT WING 3 DETAILS

11. EAST ABUTMENT WING 4 DETAILS

16. TUBULAR STEEL RAILING TYPE "M"

- HP 10 X 42 STEEL PILING

TYP. AT ABUTS, & PIER

END OF EX. BRIDGE STA. 10+37.0±

MATERIAL FOR TRAVEL

CORRIDOR FOR ACCESS

2'-0" SHL'D.

(NE QUADRANT ONLY)

DESIGN LOADING: HI -93 INVENTORY RATING: RF = 1.20 OPERATING RATING: RF = 1.55

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY: SUPERSTRUCTURE & STRUCTURAL APPROACH SLAB — - f'c = 4.000 PSI ALL OTHER - f'_c = 3,500 PSI

BAR STEEL REINFORCEMENT

GRADE 60 f_v = 60,000 PSI

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 10 X 42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 140 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.

ESTIMATED 20-'0" LONG AT WEST ABUTMENT. ESTIMATED 20-'0" LONG AT EAST ABUTMENT.

PIER TO BE SUPPORTED ON ON HP 10 X 42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 20-'0" LONG.

**THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE PILE CAPACITY.

HYDRAULIC DATA

100-YEAR FREQUENCY:

Q₁₀₀= 1,150 C.F.S. V₁₀₀= 4.69 F.P.S.

HW₁₀₀= EL. 1070.59 WATERWAY AREA = 245 SQ. FT.

DRAINAGE AREA = 60.1 SQ. MI. ROADWAY OVERTOPPING = N/A SCOUR CRITICAL CODE = 5

Q₂= 350 C.F.S.

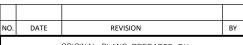
TRAFFIC DATA

FEATURE ON:

ADT = <100 ADT = <100 (2045)R.D.S. = 25 MPH

2-YEAR FREQUENCY:

V₂= 2.87 F.P.S. HW₂= EL. 1068.55



ORIGINAL PLANS PREPARED BY



3433 Oakwood Hills Parkway Eau Claire, WI 54701 www.AyresAssociates.com

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

ACCEPTED

CHIEF STRUCTURES DESIGN ENGINEER STRUCTURE B-16-149

LIDBERG BRIDGE ROAD OVER EAU CLAIRE RIVER

DOUGLAS WASCOT AASHTO LRFD BRIDGE DESIGN SPECIFICATION DESIGNED DRAV

NBE CK'D DRS BY CLP CK'D

GENERAL PLAN

SYDOW E-38363 WI

10/28/2024

AARON BONK

STRUCTURE DESIGN CONTACTS:

608-261-0261 DAN SYDOW 715-834-3161

PROFILE GRADE LINE

INDICATES WING NUMBER

× PROVIDE FOR THRIE BEAM **GUARDRAIL ATTACHMENT**

C/L OF LIDBERG

BRIDGE ROAD -

1080

1070

C/L OF LIDBERG BRIDGE ROAD

GRADE

EXISTING

GROUND LINE -

1'-31/4"

2

END OF SLAB

STA. 9+58.73

C/L OF W. ABUT

STA. 9+60.00

END OF EX. BRIDGE

(1)

- NAMF PLATF &

TOP OF BERM EL. 1070.37

BENCHMARK CAP

PT:9+44.78

EL. 1067.87 -EL. 1067.10± - EL. 1067.10± EL. 1063.27 - STREAMBED 1060 EL. 1065.27 COST OF EXCAVATION OR FILL IN THE HATCHED AREAS SHALL BE INCLUDED IN THE CONTRACT HEAVY -**ELEVATION** RIPRAP 1½ MIN. PRICE FOR "EXCAVATION FOR STRUCTURES (NORMAL TO C/L OF WATERWAY) BRIDGES B-16-149". 1050 GEOTEXTILE REMOVE EXISTING STRUCTURE AS NEEDED. TYPE HR COST INCLUDED IN "REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS" AND "REMOVING PILING" ITEMS. TYPICAL AT ALL SUBSTRUCTURES. 4'-∩" 350'-0" **BENCH MARK**

> STATION DESCRIPTION NO. ELEV. RR SPIKE IN W WWAL, 12' RT 50 9+73 1072.62 RR SPIKE IN PPOL, 68' LT 51 11+59 1081.35

82'-6¹/₂"

BACK TO BACK OF ABUTMENTS

40'-0"

SPAN 2

EXISTING STRUCTURE, P-16-131,

SIX-SPAN CONCRETE FLAT SLAB

TO BE REMOVED

BRIDGE ON CONCRETE ABUTMENTS,

TOE OF RIPRAP

RIPRAP HEAVY, TYP. -

TOP OF BERM EL. 1070.15

HIGH WATER₁₀₀ EL. 1070.59

WATER EL. 1066.37 (8/29/23)

STA. 10+31.1±

40'-0"

SPAN 1

TOE OF RIPRAP

STRUCTURE B-16-149 -

TUBULAR STEEL RAILING TYPE "M"

PLAN

TWO-SPAN CONCRETE FLAT SLAB BRIDGE

STA. 9+68.8±

C/L OF PIER 1

STA. 10+00.00

BRIGHTSPEED -

10° TYP.

SHEET 1 OF 16

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

SLAB FALSE WORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATIVE METHOD IS APPROVED BY THE ENGINEER.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-16-149" SHALL BE THE EXISTING GROUNDLINE.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED AS SHOWN IN DETAIL ON THIS SHEET AND APPLY TO THE TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE END 1'-0" OF THE FRONT FACE OF ABUTMENTS.

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 ABUTMENTS.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLAN AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

REMOVE EXISTING SUBSTRUCTURES AS NEEDED TO BUILD NEW SUBSTRUCTURES. COST OF SUBSTRUCTURE REMOVAL IS CONSIDERED INCIDENTAL TO "REMOVING STRUCTURE" AND "REMOVING PILING" ITEMS.

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

PROTECTIVE SURFACE TREATMENT LIMITS

PROTECTIVE SURFACE TREATMENT DETAIL

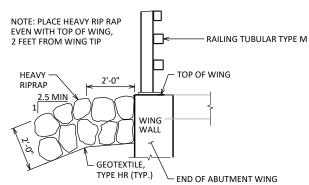
Э.	DATE		BY								
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION										
S	STRUCTURE B-16-149										
			DRAWN BY	CLP	PLANS CK'D	DNS					
		ICAL SECTIO	SHEET 2 OF 16								
		UANTITIES ND NOTES									

TOTAL ESTIMATED QUANTITIES

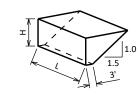
BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	W. ABUT.	PIER	E. ABUT.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS (P-16-131)	EACH					1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-16-149	EACH					1
210.1500	BACKFILL STRUCTURE TYPE A	TON		110		110	220
502.0100	CONCRETE MASONRY BRIDGES	CY	139.2	30.9	23.3	30.9	224
502.3200	PROTECTIVE SURFACE TREATMENT	SY	290	10		10	310
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		1,650	1,120	1,650	4,420
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	29,380	1,640	50	1,640	32,710
513.4061	RAILING TUBULAR TYPE M	LF	218				218
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		9		9	18
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF		80	120	80	280
606.0300	RIPRAP HEAVY	CY		65		80	145
612.0406	PIPE UNDERDRAIN WRAPPED 6 - INCH	LF		90		90	180
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		20		20	40
645.0120	GEOTEXTILE TYPE HR	SY		130		160	290
SPV.0090.01	REMOVING EXISTING TIMBER PILING	LF			100		100
SPV.0195.01	SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR	TON				16	16
	NON-BID ITEMS						
	FILLER	SIZE					1/2", 3/4"

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.



TYPICAL FILL SECTION AT WING TIPS



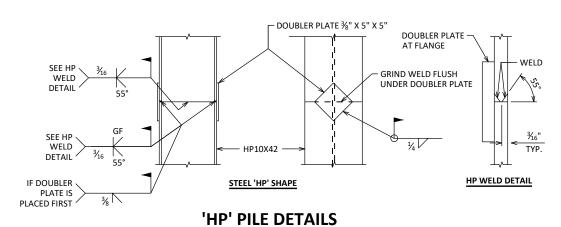
ABUTMENT BACKFILL DIAGRAM

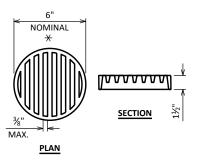
= OUT TO OUT OF ABUTMENT BODY INCLUDING WINGS (FT)

= AVERAGE ABUTMENT FILL HEIGHT (FT)

= EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)

 $V_{CF} = (L)(3.0^{\circ})(H) + (L)(0.5)(1.5H)(H)$ $V_{CY} = V_{CF}(EF)/27$ $V_{TON} = V_{CY}(2.0)$





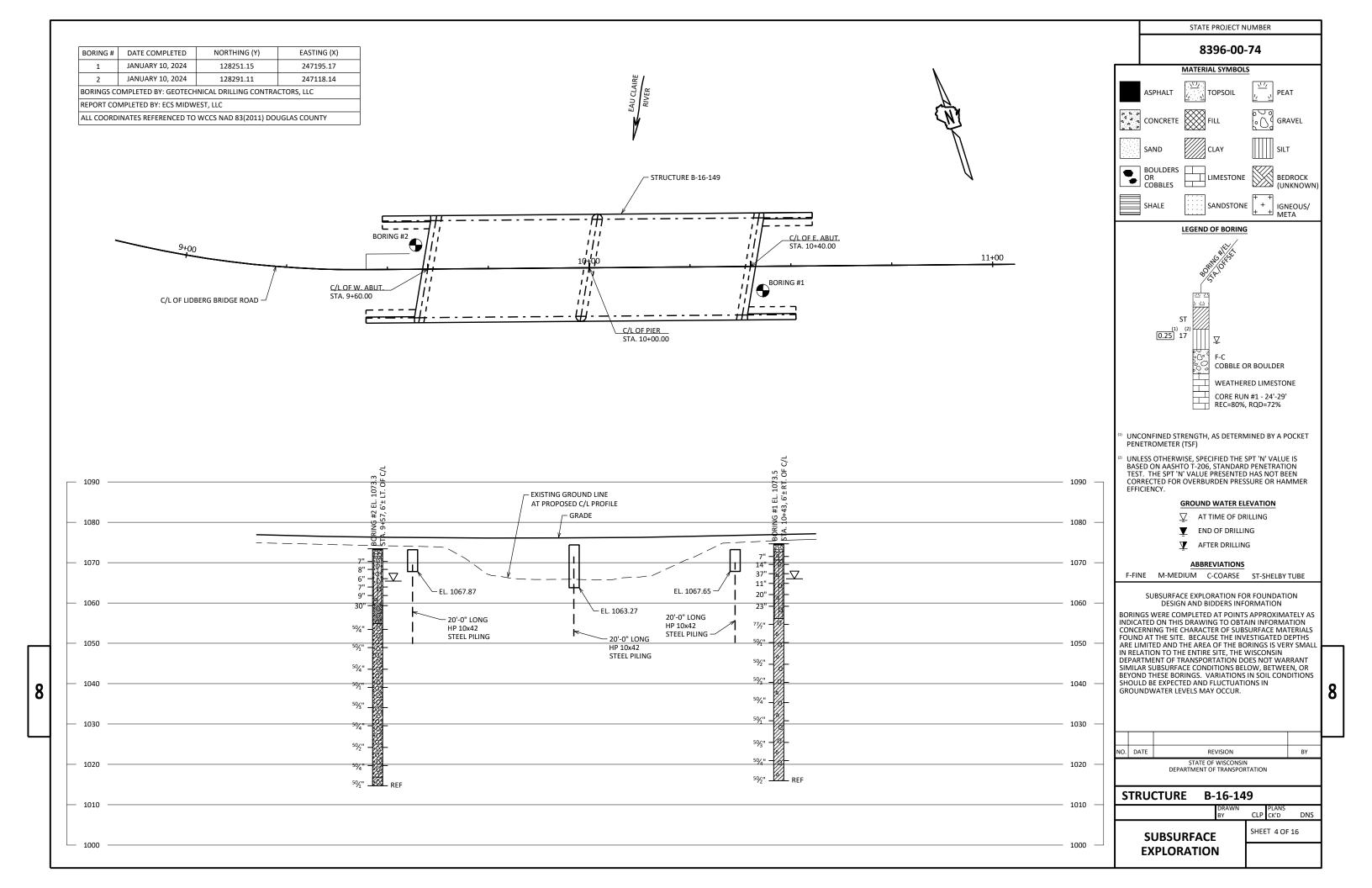
RODENT SHIELD DETAIL

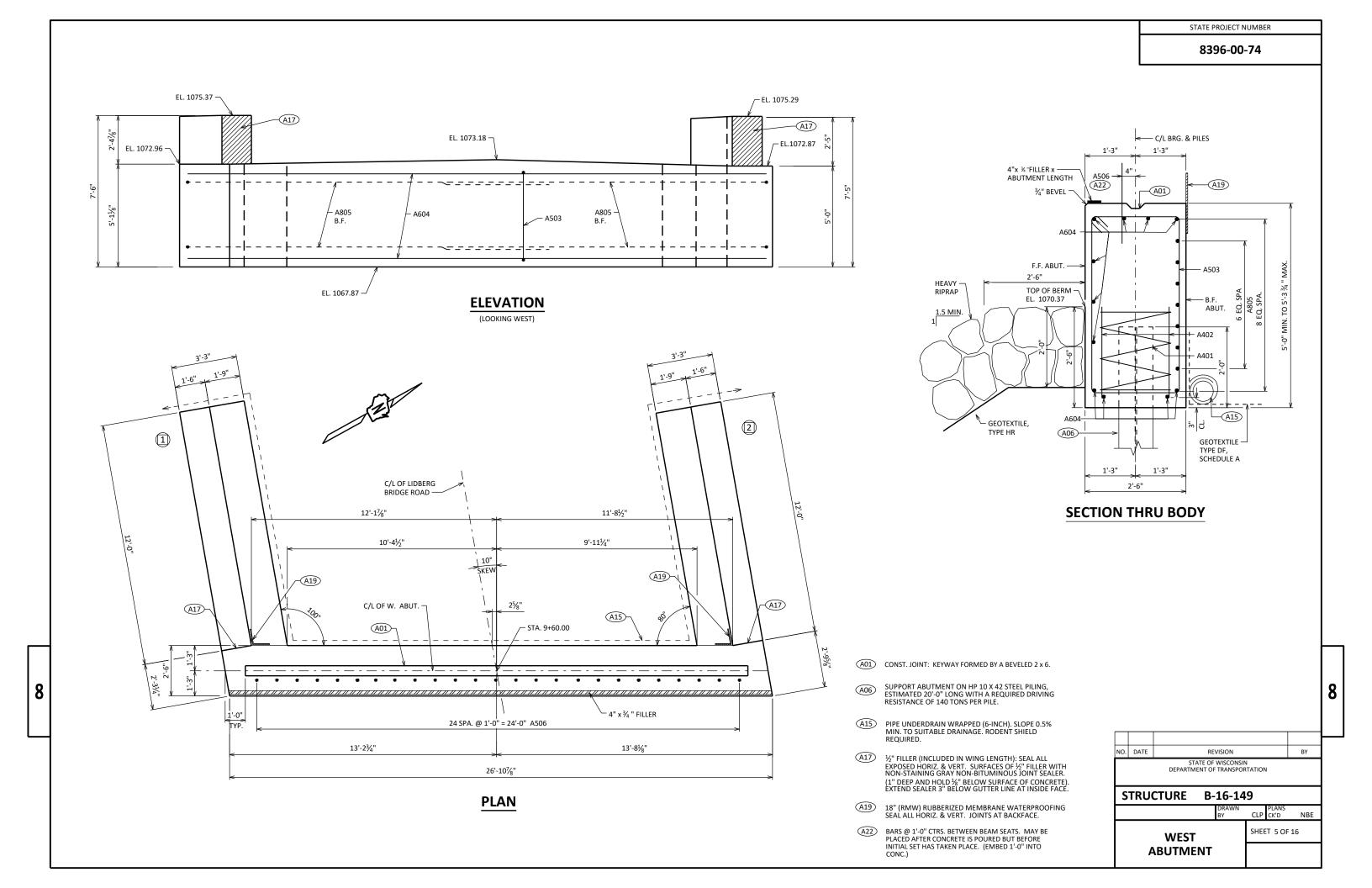
★ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

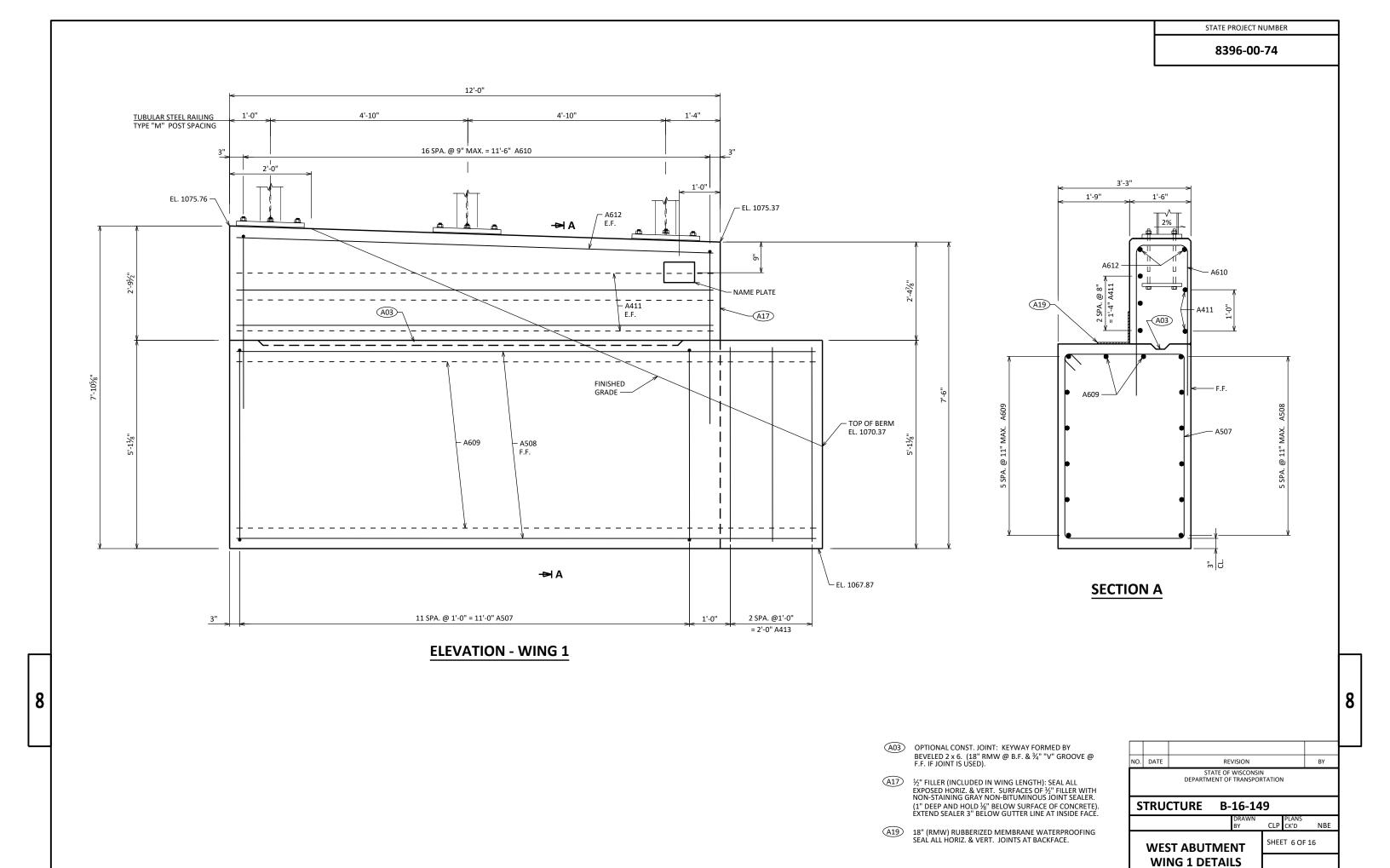
THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

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.

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S	STRUCTURE B-16-149										
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	S	TRUCTURE	SHEET 3 OF 16								
		DETAILS									

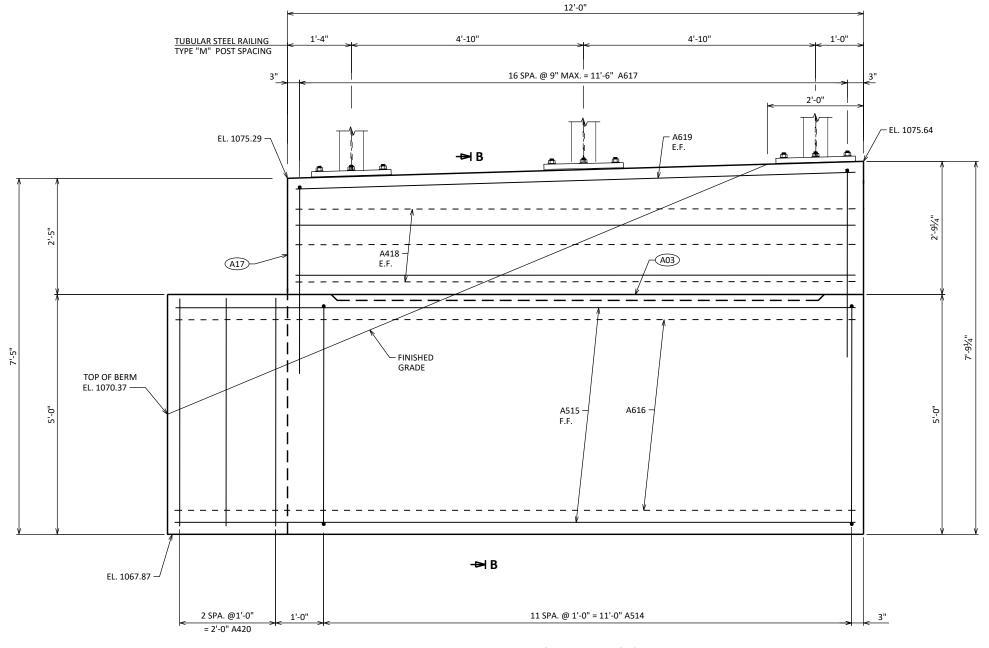


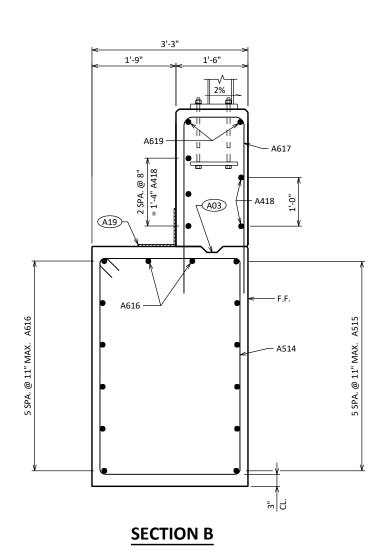




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ELEVATION - WING 2

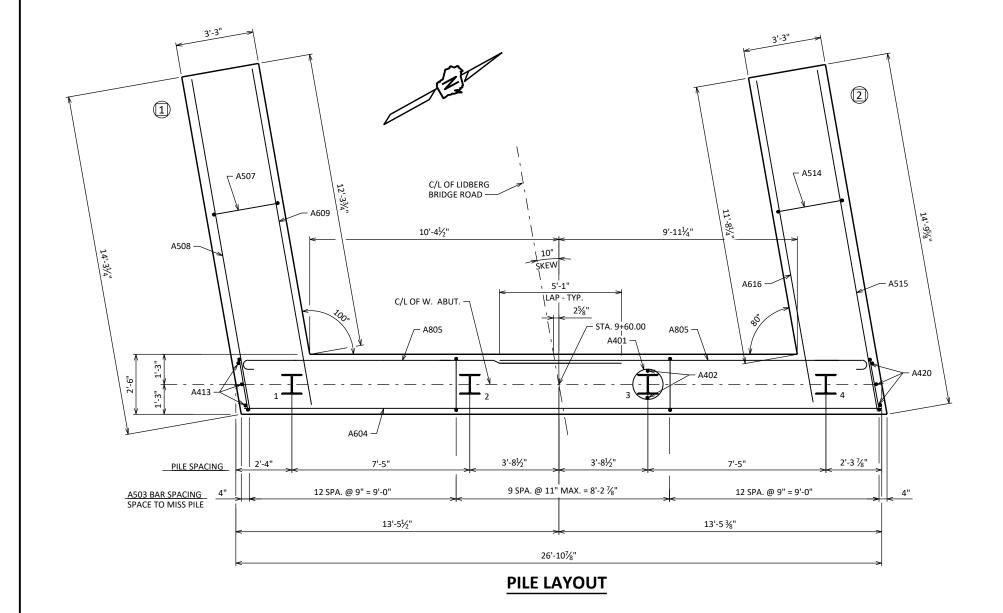
- ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ½" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

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(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & $\frac{3}{4}$ " "V" GROOVE @ F.F. IF JOINT IS USED).

8396-00-74

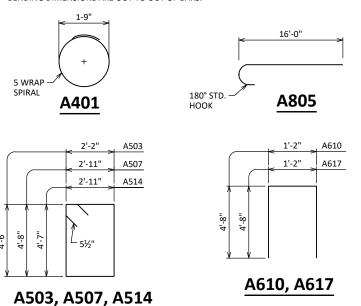


BILL OF BARS

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	
A401		4	28'-0"	Х		BODY @ PILES	
A402		8	2'-3"			BODY @ PILES	
A503		34	14'-0"	Х		BODY VERT.	
A604		11	26'-6"			BODY HORIZ.	
A805		14	16'-11"	Х		BODY HORIZ. @ WINGS 1 & 2 B.F.	
A506	Х	25	2'-0"			BODY DOWELS	
A507	Х	12	15'-10"	Х		WING 1 VERT.	
A508	Х	6	13'-11"			WING 1 HORIZ. F.F.	
A609	Х	8	14'-2"			WING 1 HORIZ. B.F. & TOP	
A610	Х	17	10'-2"	Х		WING 1 VERT.	
A411	Х	5	11'-8"			WING 1 HORIZ. E.F.	
A612	Х	2	11'-8"			WING 1 HORIZ. E.F. TOP	
A413	Х	3	4'-8"			BODY VERT. END @ WING 1	
A514	Х	12	15'-8"	Х		WING 2 VERT.	
A515	Х	6	14'-5"			WING 2 HORIZ. F.F.	
A616	Х	8	13'-7"			WING 2 HORIZ. B.F. & TOP	
A617	Х	17	10'-2"	Х		WING 2 VERT.	
A418	Х	5	11'-8"			WING 2 HORIZ. E.F.	
A619	Х	2	11'-8"			WING 2 HORIZ. E.F. TOP	
A420	Х	3	4'-7"			BODY VERT. END @ WING 2	

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



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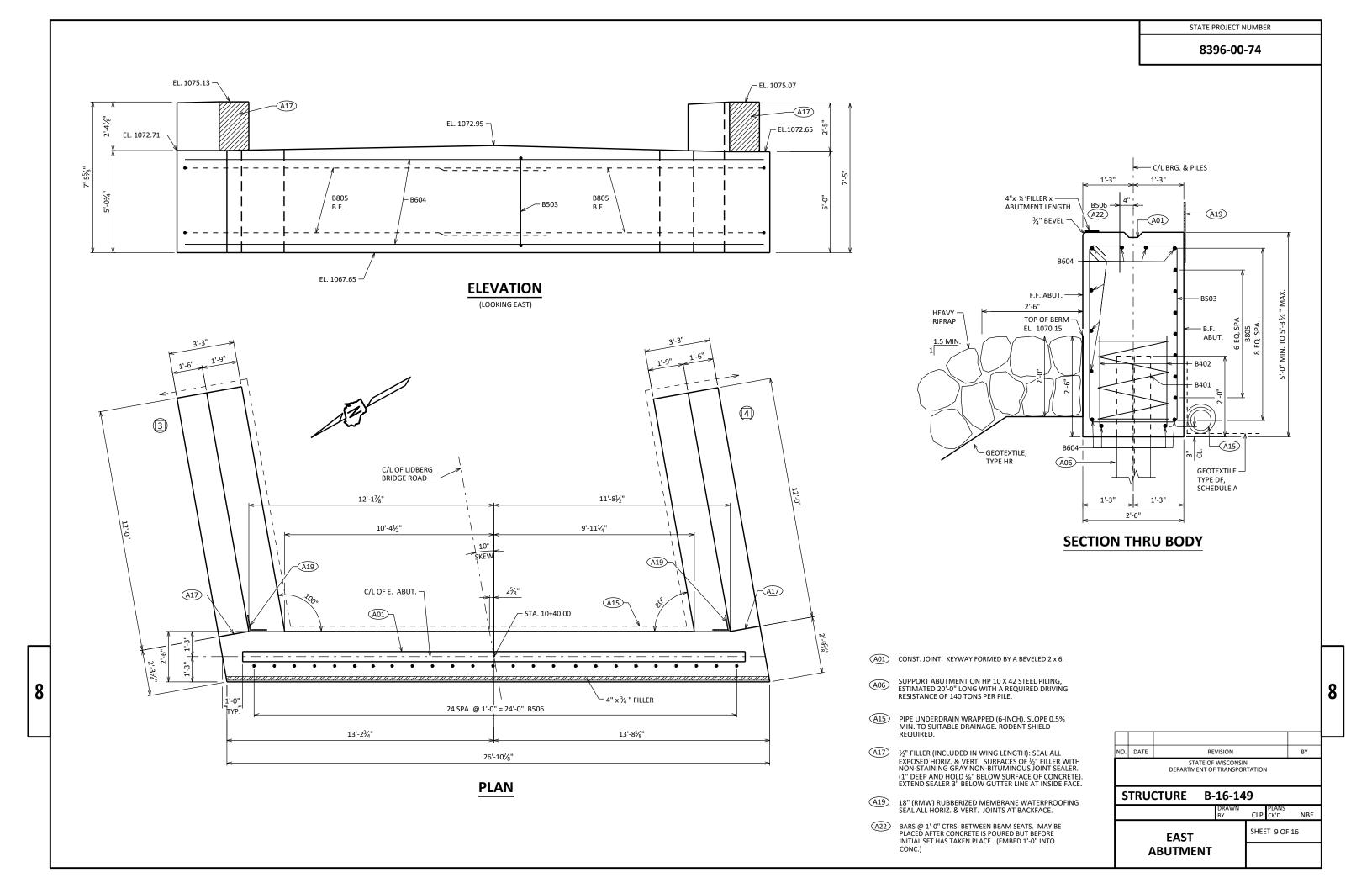
NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-16-149

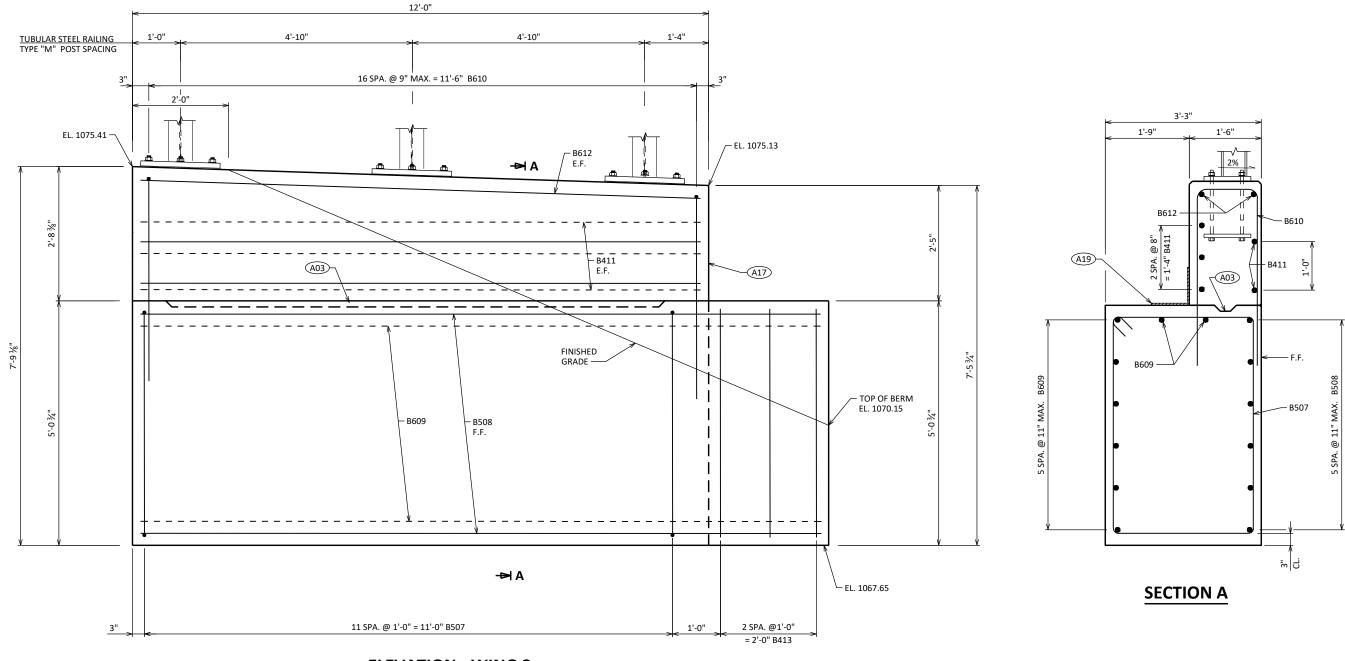
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WEST ABUTMENT PILE LAYOUT AND BILL OF BARS



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ELEVATION - WING 3

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).

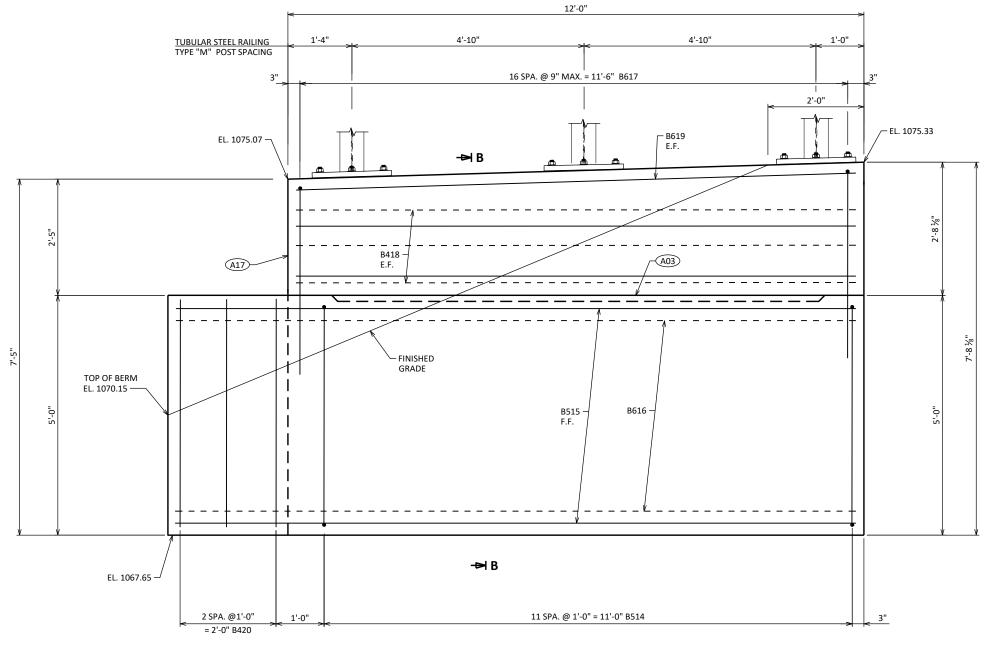
A17 ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ½" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

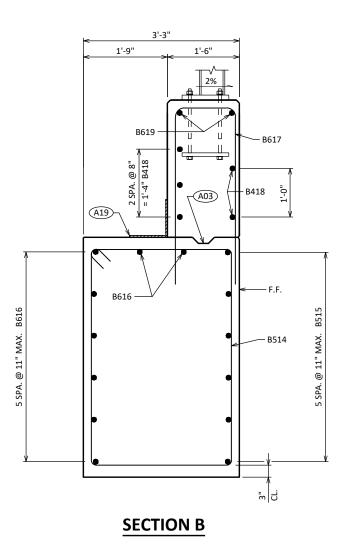
(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

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STATE PROJECT NUMBER

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ELEVATION - WING 4

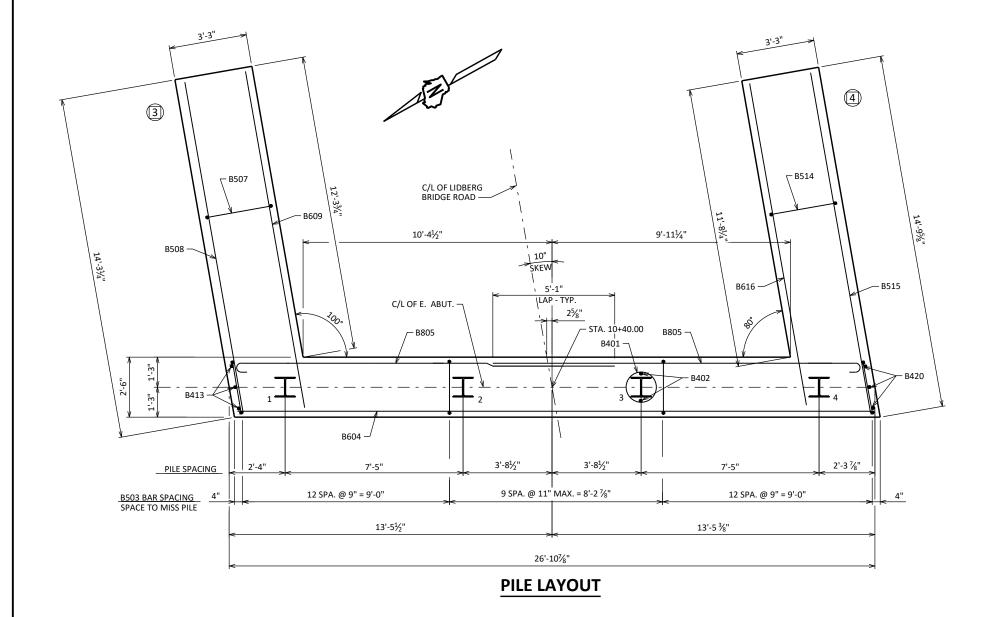
(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).

17 ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ½" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

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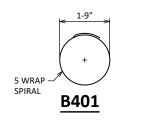


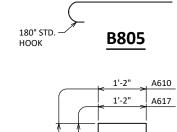
BILL OF BARS

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
B401		4	28'-0"	Х		BODY @ PILES
B402		8	2'-3"			BODY @ PILES
B503		34	14'-0"	Х		BODY VERT.
B604		11	26'-6"			BODY HORIZ.
B805		14	16'-11"	Χ		BODY HORIZ. @ WINGS 3 & 4 B.F.
B506	Х	25	2'-0"			BODY DOWELS
B507	Χ	12	15'-8"	Χ		WING 3 VERT.
B508	Χ	6	13'-11"			WING 3 HORIZ. F.F.
B609	Χ	8	14'-2"			WING 3 HORIZ. B.F. & TOP
B610	Χ	17	10'-2"	Х		WING 3 VERT.
B411	Χ	5	11'-8"			WING 3 HORIZ. E.F.
B612	Χ	2	11'-8"			WING 3 HORIZ. E.F. TOP
B413	Χ	3	4'-7"			BODY VERT. END @ WING 3
B514	Χ	12	15'-8"	Х		WING 4 VERT.
B515	Χ	6	14'-5"			WING 4 HORIZ. F.F.
B616	Χ	8	13'-7"			WING 4 HORIZ. B.F. & TOP
B617	Х	17	10'-2"	Х		WING 4 VERT.
B418	Х	5	11'-8"			WING 4 HORIZ. E.F.
B619	Х	2	11'-8"			WING 4 HORIZ. E.F. TOP
B420	Х	3	4'-7"			BODY VERT. END @ WING 4

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



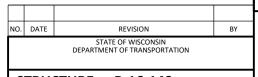


2'-2" A503 2'-11" A507 2'-11" A514 5'-7" 5'-7"

B610, B617

16'-0"

B503, B507, B514

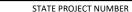


STRUCTURE B-16-149

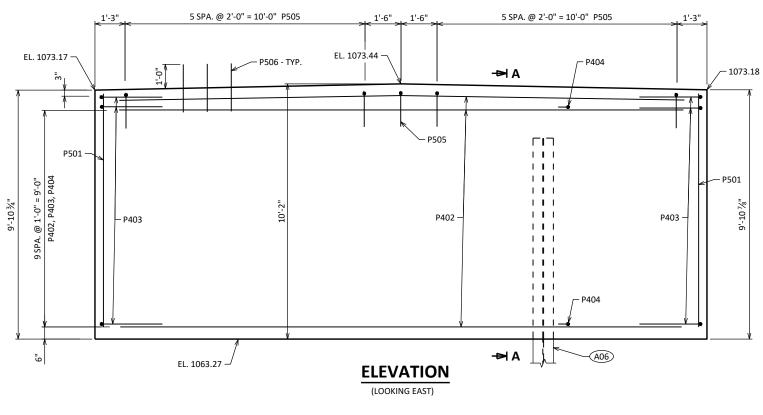
EAST ABUTMENT
PILE LAYOUT AND
BILL OF BARS

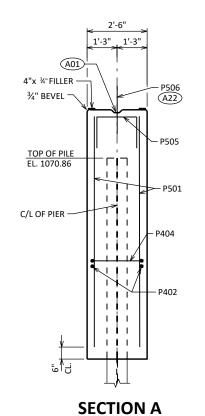
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CLP PLANS CK'D NBE
SHEET 12 OF 16



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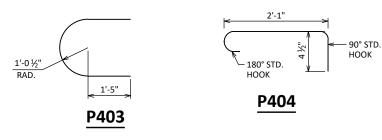


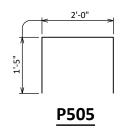
BILL OF BARS

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
P501		54	9'-2"			COLUMN VERT.
P402		22	23'-0"			COLUMN HORIZ.
P403		22	6'-1"	Х		COLUMN HORIZ.
P404		60	2'-10"	Х		COLUMN TIES
P505		13	4'-7"	Х		COLUMN TOP
P506	х	24	2'-0"			COLUMN DOWELS

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



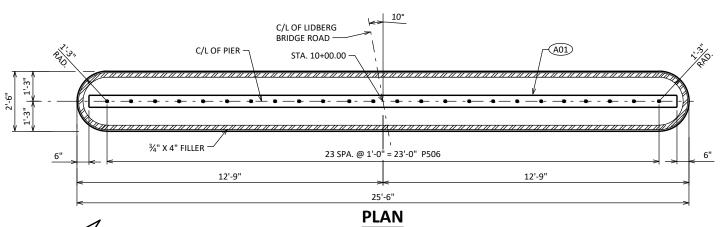


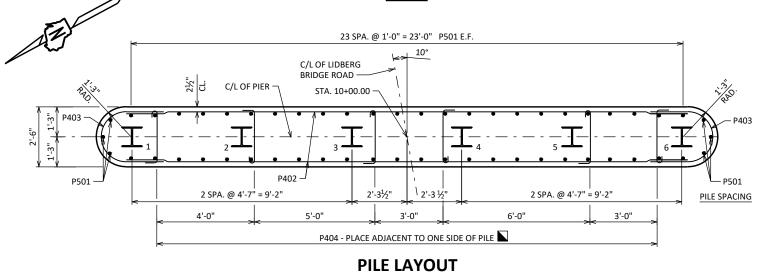
- (A01) CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 x 6.
- SUPPORT PIER ON HP 10 X 42 STEEL PILING, ESTIMATED 20'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.
- BARS @ 1'-0" CTRS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

ALTERNATE THE POSITION OF THE 90° AND 180° HOOKS AT EACH VERTICAL LAYER OF TIES.

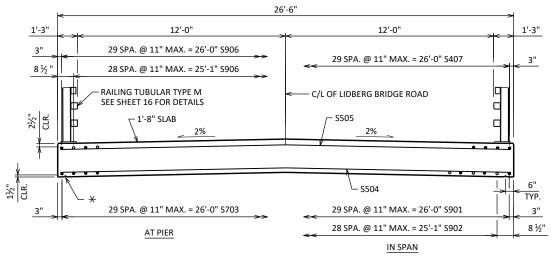
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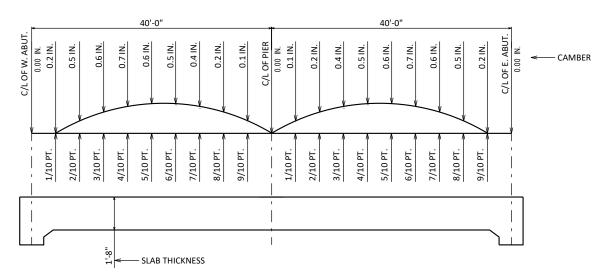
TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY

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

★ ¾" V-GROOVE. EXTEND V-GROOVE TO 6" FROM F.F. OF ABUT.

V-GROOVES ARE REQUIRED.

TYPICAL SECTION THRU BRIDGE



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.

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

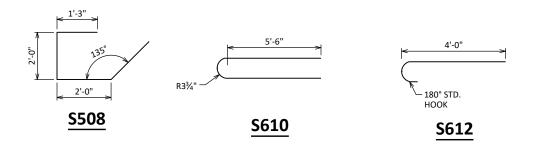
FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR) TOP OF SLAB FALSEWORK ELEVATION

BILL OF BARS

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
S901	Х	60	38'-3"			SLAB LONG. BOT.
S902	Х	58	25'-4"			SLAB LONG. BOT.
S703	Х	30	13'-3"			SLAB LONG. BOT. @ PIER
S504	Х	100	26'-7"			SLAB TRANS. BOT.
S505	Х	100	26'-7"			SLAB TRANS. TOP
S906	Х	59	34'-9"			SLAB LONG. TOP @ PIER
S407	Х	60	18'-6"			SLAB LONG. TOP
S508	Х	54	7'-5"	Х		SLAB @ ABUT. DIAPHRAGM STIRRUPS
S509	Х	4	26'-7"			SLAB @ ABUT. DIAPHRAGM TRANS.
S610	Х	56	12'-0"	Х		SLAB @ RAIL POSTS
S611	Х	96	6'-0"			SLAB @ INT. RAIL POSTS
S612	Х	16	4'-8"	Х		SLAB @ END RAIL POSTS

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



SURVEY TOP OF SLAB ELEVATIONS

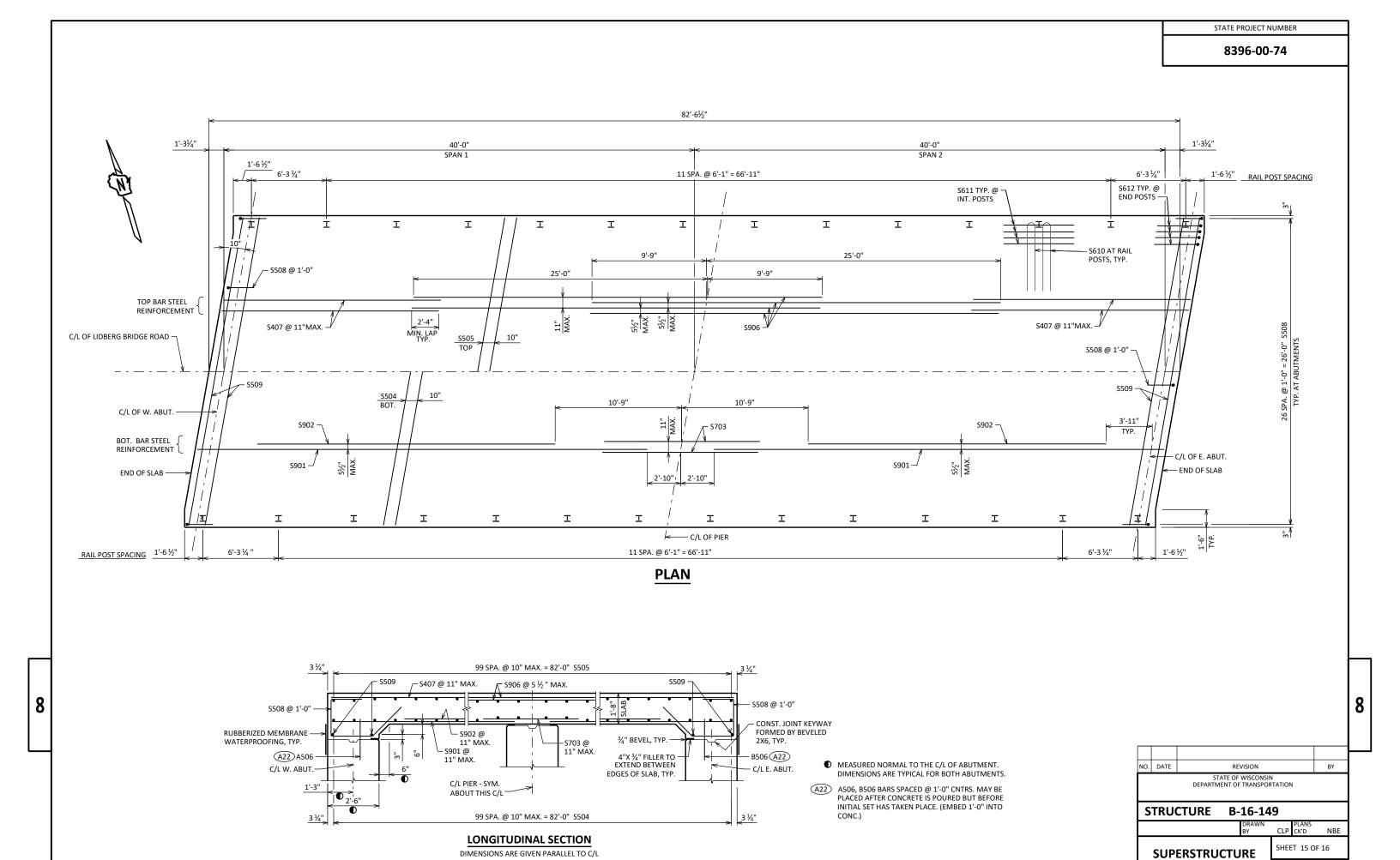
	<u>ABUTMENT</u>	5/10 PT.	<u>PIER</u>	5/10 PT.	ABUTMENT
N. EDGE OF SLAB					
C/L LIDBERG BRIDGE RD					
S. EDGE OF SLAB					

PRIOR TO RELEASING SLAB FORMWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF SUBSTRUCTURES, AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND C/L. . RECORD ELEVATIONS IN THE TABLE ABOVE FOR THE "AS BUILT" PLANS.

TOP OF SLAB ELEVATIONS

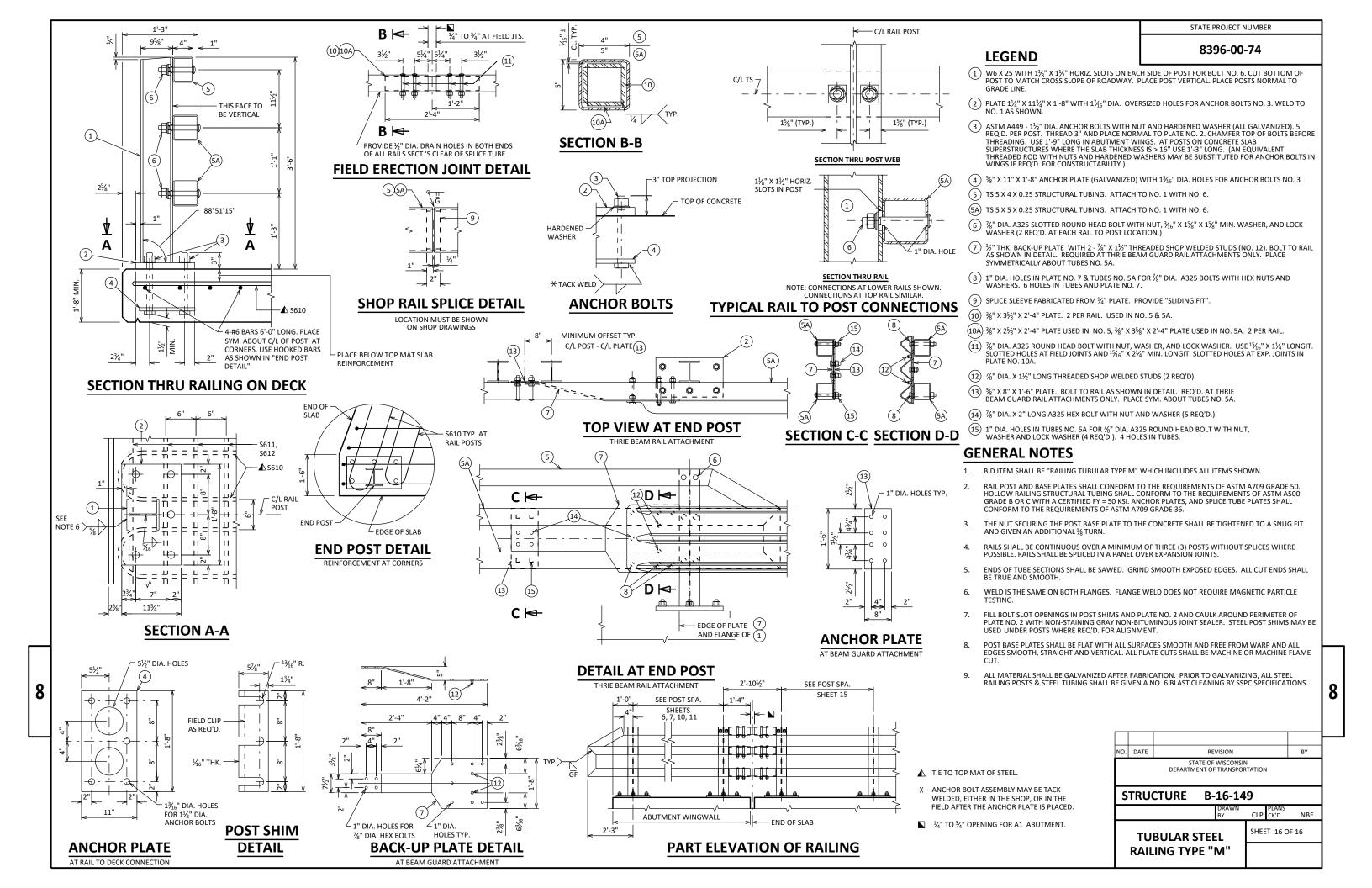
LOCATION	C/L W. ABUT.	⅓ ₁₀ PT.	⅔ ₁₀ PT.	³⁄₁0 PT.	⅓ ₁₀ PT.	5∕ ₁₀ PT.	%₁0 PT.	⅓ ₁₀ PT.	8∕ ₁₀ PT.	%₁ ₀ PT.	C/L PIER	⅓ ₁₀ PT.	²⁄₁₀ PT.	³⁄₁0 PT.	⅓ ₁₀ PT.	5∕ ₁₀ PT.	%₁0 PT.	⅓ ₁₀ PT.	8∕ ₁₀ PT.	%₁₀ PT.	C/L E. ABUT.
N. EDGE OF SLAB	1075.29	1075.22	1075.16	1075.11	1075.06	1075.02	1074.98	1074.95	1074.93	1074.91	1074.90	1074.90	1074.90	1074.90	1074.92	1074.94	1074.96	1074.99	1075.03	1075.08	1075.13
C/L LIDBERG BRIDGE RD	1075.59	1075.52	1075.46	1075.40	1075.35	1075.31	1075.27	1075.23	1075.21	1075.19	1075.17	1075.16	1075.16	1075.16	1075.17	1075.19	1075.21	1075.24	1075.27	1075.32	1075.36
S. EDGE OF SLAB	1075.37	1075.30	1075.23	1075.17	1075.12	1075.07	1075.02	1074.99	1074.96	1074.93	1074.91	1074.90	1074.90	1074.90	1074.90	1074.91	1074.93	1074.96	1074.99	1075.03	1075.07

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PLAN

ROADWAY UNLESS OTHERWISE NOTED.



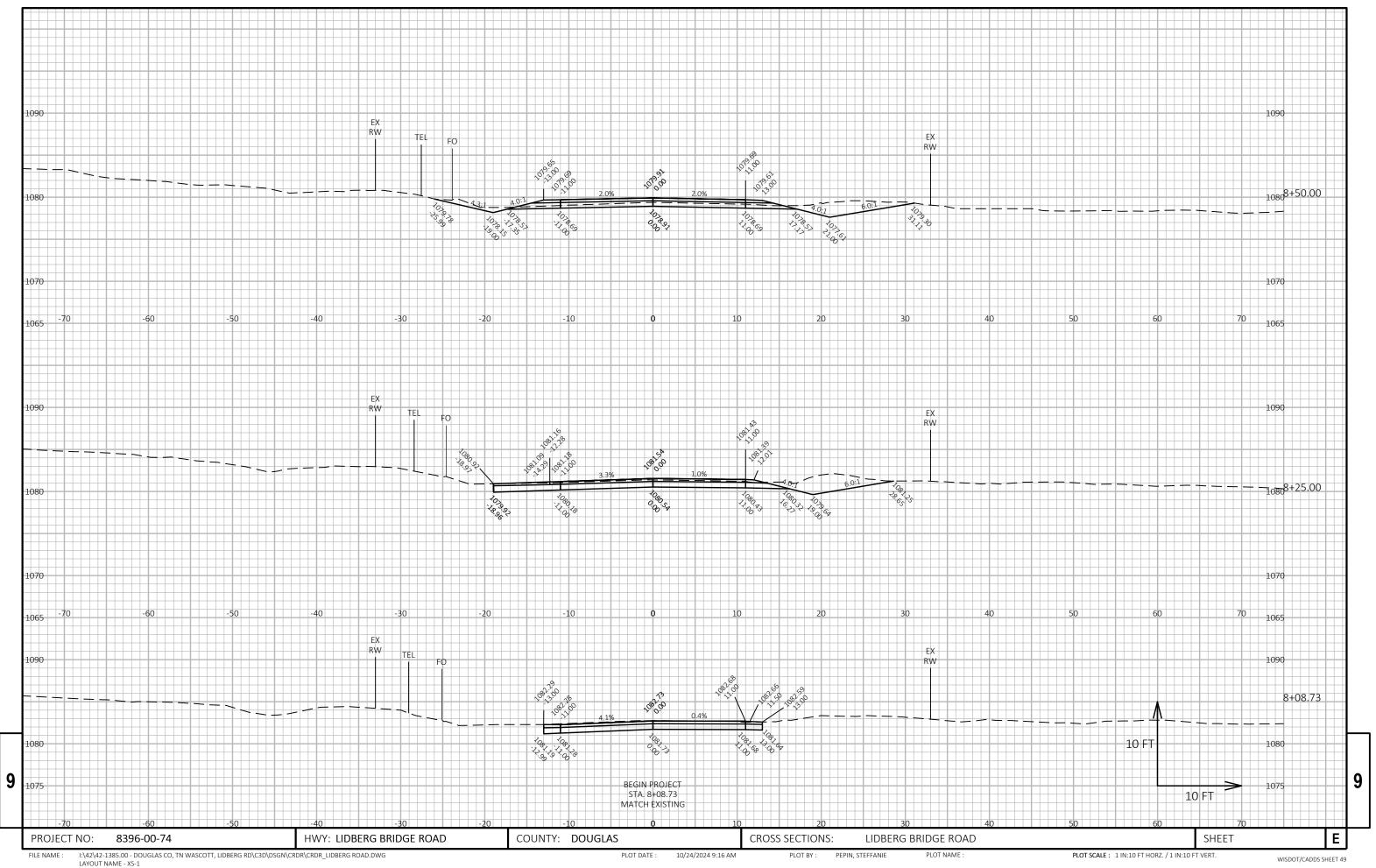
LIDBERG BRIDGE ROAD COMPUTER EARTHWORK

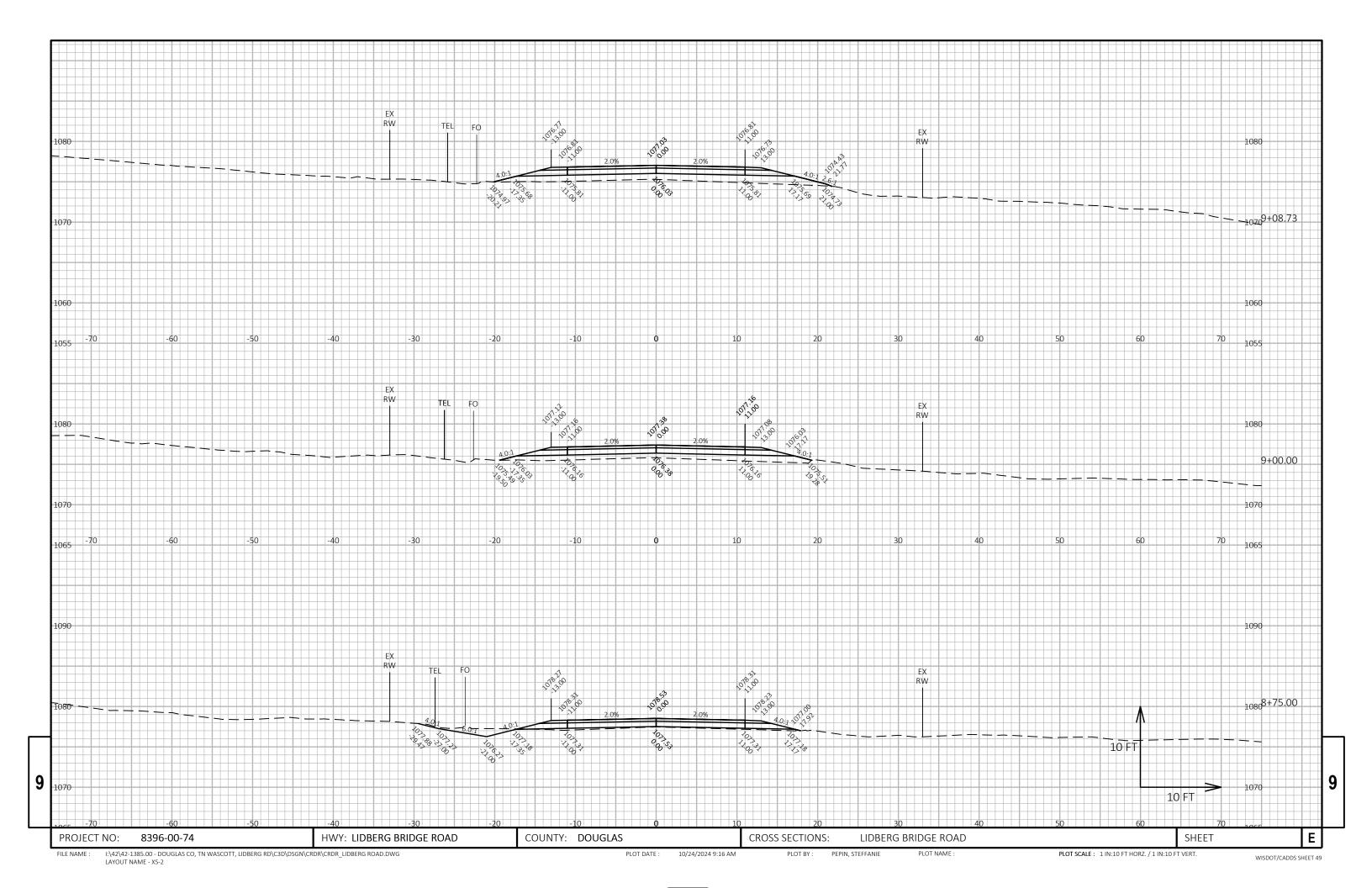
			Area (SF)		Increme	ental Vol (CY) (Una	djusted)	Cumulati	ve Vol (CY)	
						Salvaged /			Expanded	
Station	Distance	Cut	Unuseable	Fill	Cut	Unuseable	Fill	Cut	Fill	
			Pavement			Pavement		1.00	1.30	Mass Ordinate
			Material			Material				
					Note 1	Note 4	Note 2	Note 5		Note 3
8+08.73		27.4	6.9	0.0						
8+25	16.27	46.0	6.9	0.0	22	4	0	18	0	18
8+50	25.00	31.4	6.9	0.0	36	6	0	47	0	47
8+75	25.00	6.3	6.9	4.2	17	6	2	58	3	56
9+00	25.00	0.0	6.9	24.0	3	6	13	55	20	35
9+08.73	8.73	0.0	6.9	31.8	0	2	9	53	31	22
9+25	16.27	0.0	6.9	53.9	0	4	26	49	65	-16
9+40.82	15.82	0.0	6.9	64.0	0	4	35	45	110	-65
9+44.85	4.03	0.0	6.9	64.7	0	1	10	44	122	-79
9+58.73	13.88	0.0	6.9	64.7	0	4	33	40	165	-125
BRIDGE										
10+41.27		0.0	6.9	53.2						
10+55.15	13.88	0.0	6.9	53.2	0	4	27	36	201	-164
10+59.39	4.24	0.0	6.9	51.0	0	1	8	35	212	-176
10+75	15.61	0.0	6.9	16.5	0	4	20	31	237	-206
10+91.27	16.27	33.3	6.9	0.1	10	4	5	37	243	-206
11+00	8.73	41.0	6.9	0.0	12	2	0	47	243	-196
11+25	25.00	53.4	6.9	0.0	44	6	0	84	243	-159
11+50	25.00	50.7	6.9	0.0	48	6	0	126	243	-117
11+66.27	16.27	24.8	6.9	0.0	23	4	0	145	243	-99
					215	70	187			

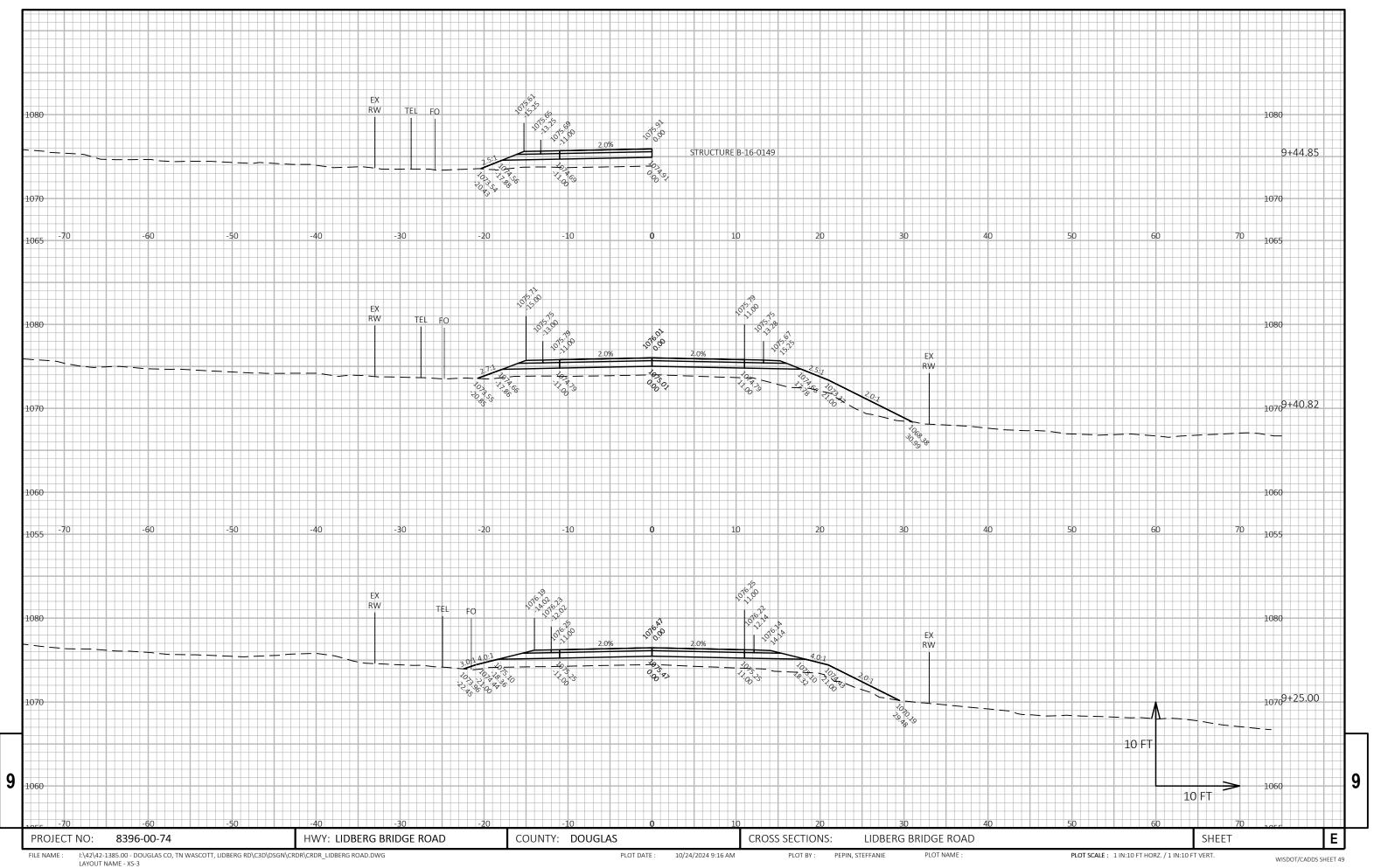
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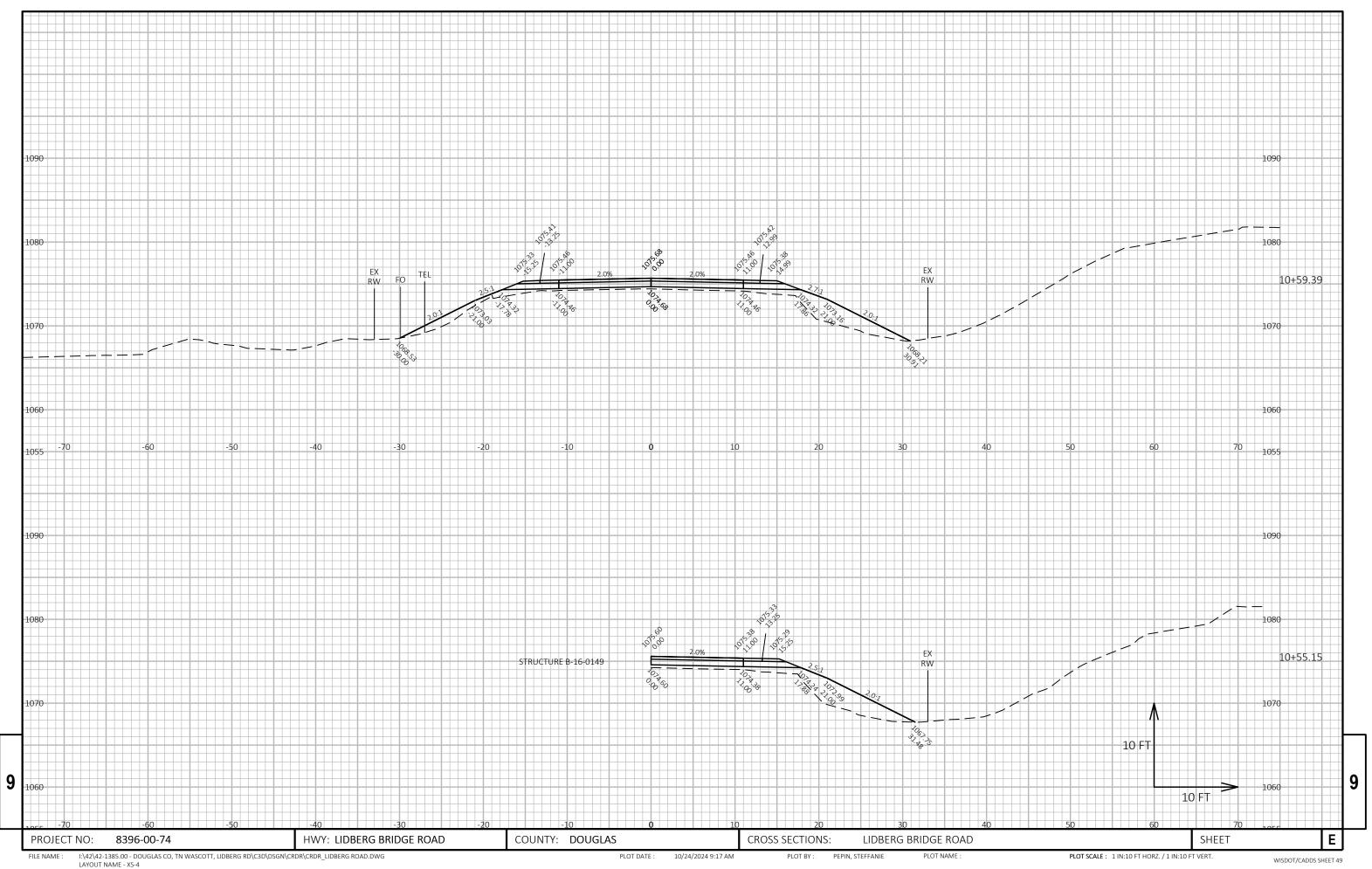
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PROJECT NO: 8396-00-74 HWY: LIDBERG BRIDGE ROAD COUNTY: DOUGLAS EARTHWORK COMPUTATIONS SHEET NO: E

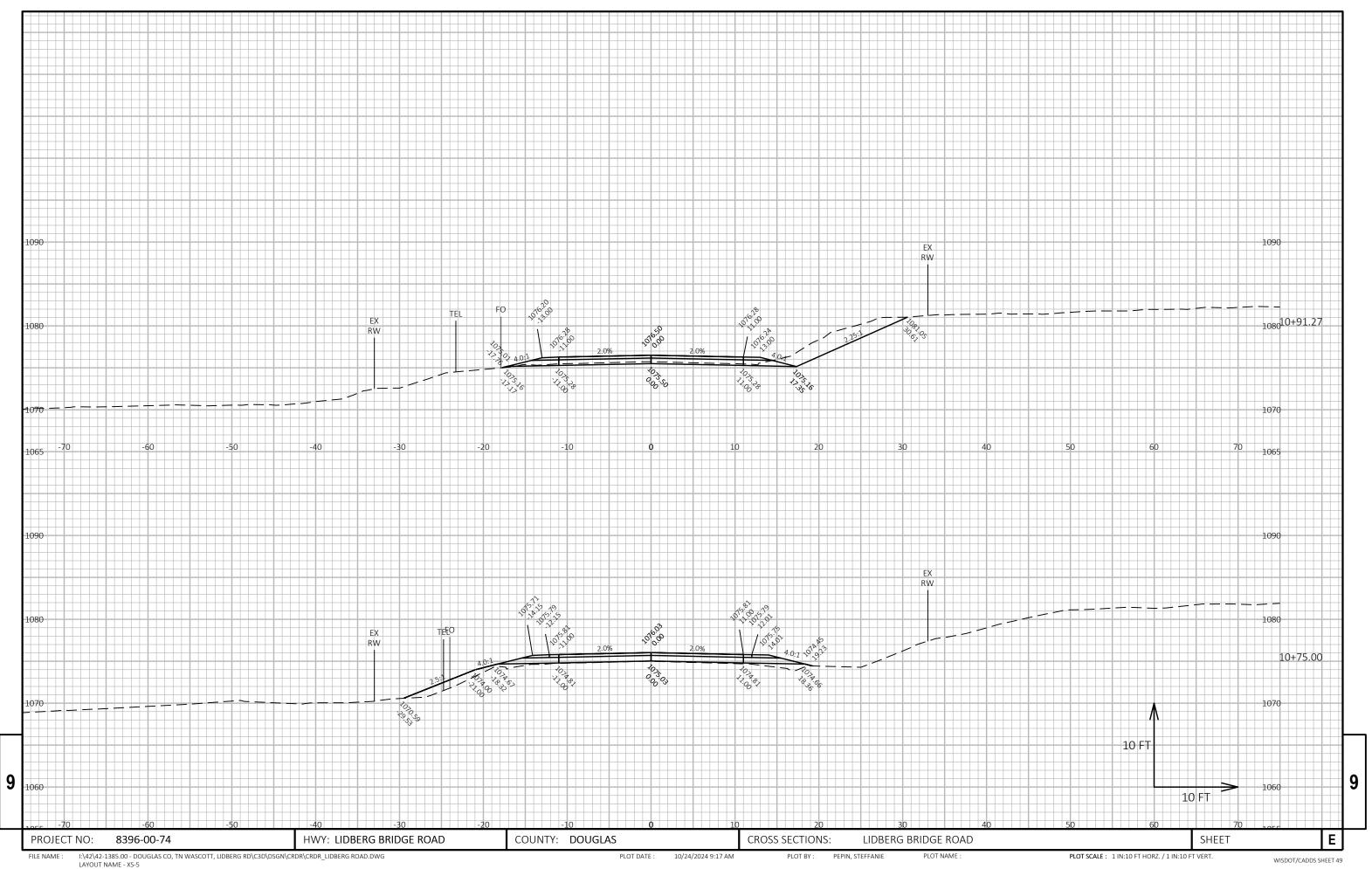




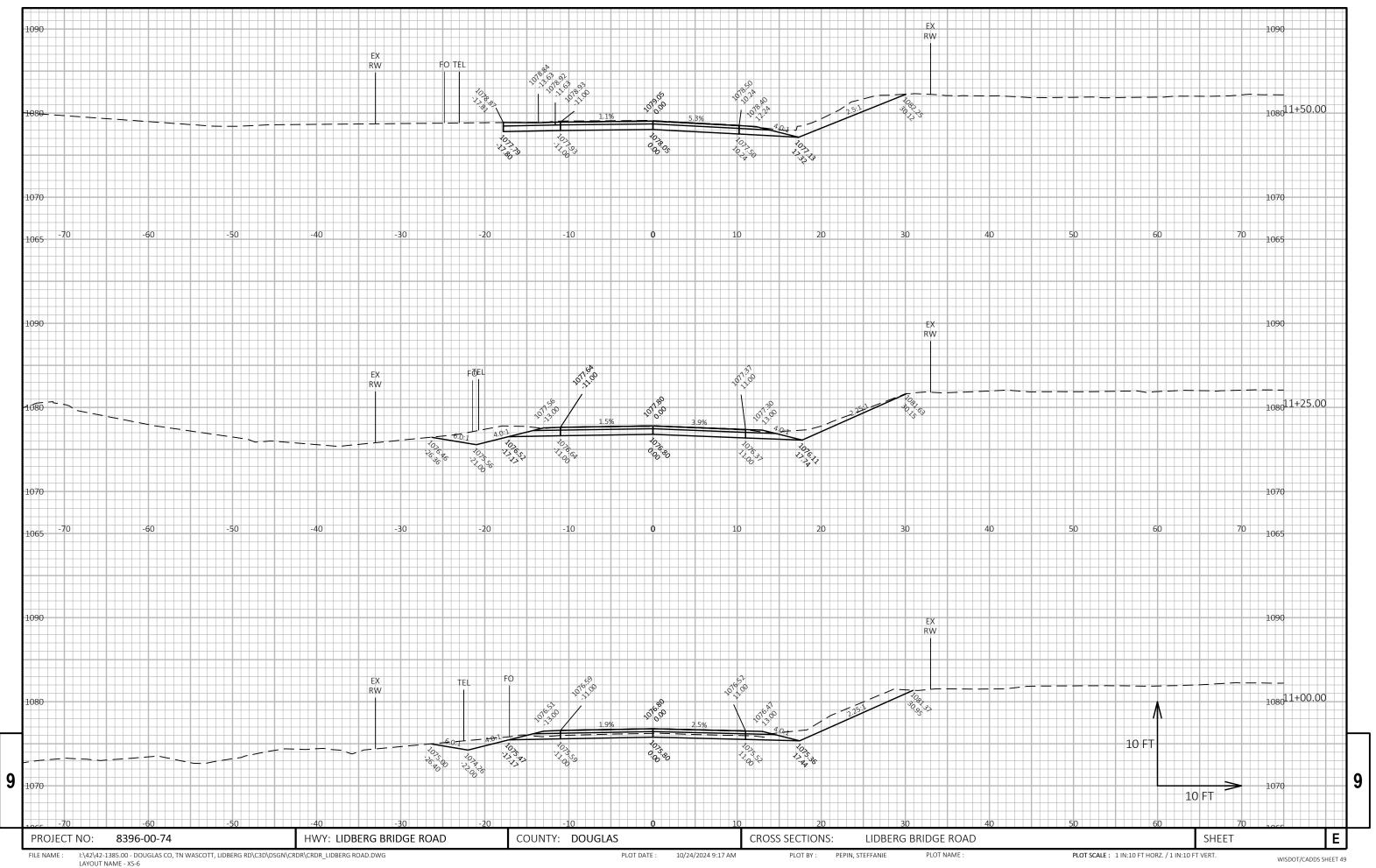




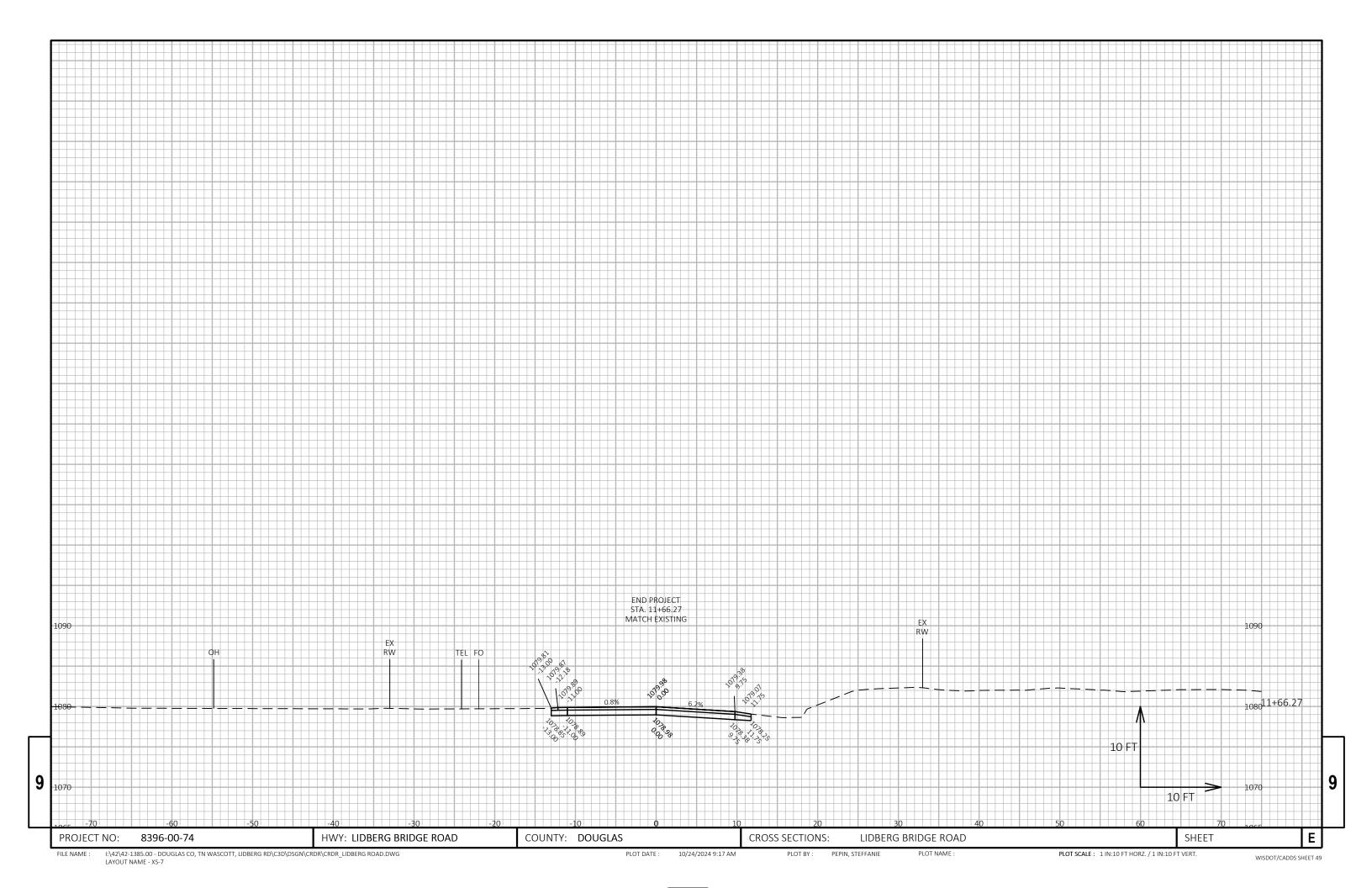
LATOUT NAIVIE - A3-4



LAYOUT NAME - XS-5



EATOUT IVAIVE - 7.5-0





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