TOTAL SHEETS = 48

DESIGN DESIGNATION

(2045)

A.A.D.T.

A.A.D.T.

D.H.V. D.D.

ESALS

PLAN

CORPORATE LIMITS

EXISTING RIGHT OF WAY

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

PROPERTY LINE

LOT LINE

DESIGN SPEED

NOVEMBER 2024 STATE OF WISCONSIN ORDER OF SHEETS **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details Estimate of Quantities

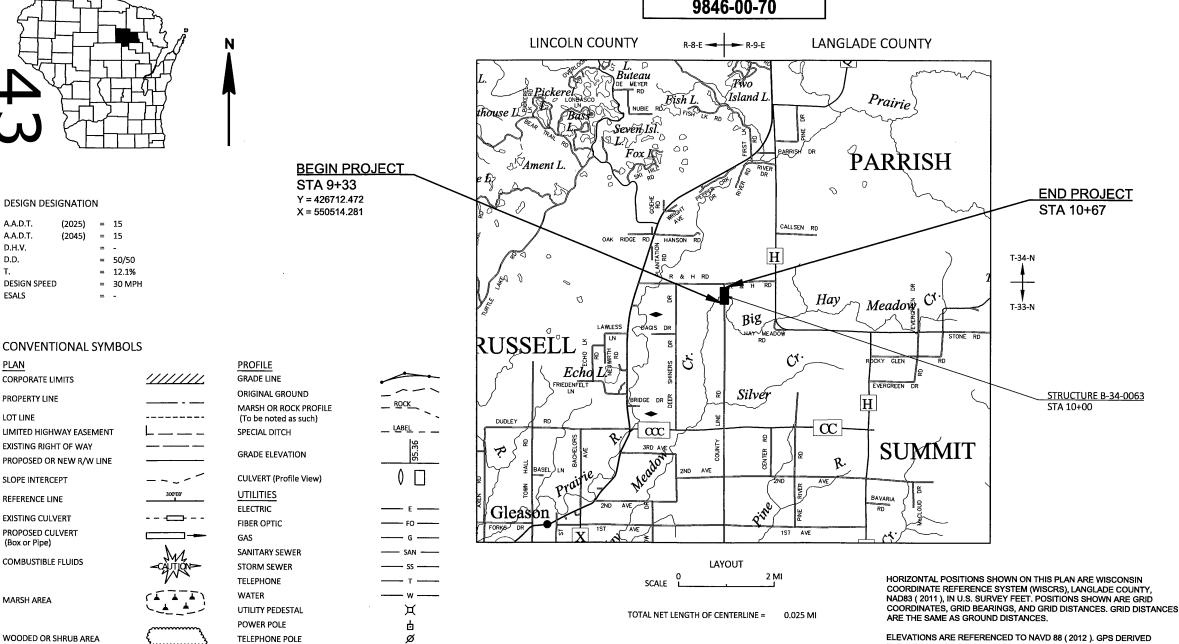
PLAN OF PROPOSED IMPROVEMENT

T SUMMIT, COUNTY LINE ROAD

BIG HAY MEADOW CREEK BRIDGE B-34-0063

LOC STR LANGLADE COUNTY

STATE PROJECT NUMBER 9846-00-70



ACCEPTED FOR TOWN OF SUMMIT STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION** Designe

FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2025062

STATE PROJECT

9846-00-70

FILE NAME: I:\45\450640 COUNTY LINE ROAD_T SUMMIT\C3D\SHEETSPLAN\010101-TI.DWG

PLOT DATE : 7/15/2024 5:45 PM

GARNICA, BRANDON

ELEVATIONS ARE BASED ON GEOID 18.

UTILITIES CONTACTS

NO KNOWN UTILITIES PRESENT WITHIN THE PROJECT AREA.



ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES TYPICAL SECTIONS CONSTRUCITON DETAILS **EROSION CONTROL**

COUNTY LINE ROAD - 4" ASPHALTIC SURFACE							
LAYER	THICKNESS	TYPE					
UPPER	1.75"	12.5 MM					
LOWER	2.25"	19 MM					

WISCONSIN DNR LIAISON

WENDY HENNIGES NORTH CENTRAL REGION 107 SUTLIFF AVENUE RHINELANDER, WI 54501 PHONE: 715-365-8916

EMAIL: wendy.henniges@wisconsin.gov

TOWN OF SUMMIT

NIEL SCHUELLER SUMMIT TOWN SUPERVISOR N7944 MCCLOUD DRIVE GLEASON, WI 54435 PHONE: 920-948-1694 EMAIL: nmschueller@gmail.com

TOWN OF RUSSELL

ROBERT KRESSEL TOWN OF RUSSELL CHAIRMAN W1421 FIRST AVENUE GLEASON, WI 54435 PHONE: 715-873-4669 EMAIL: robertkressel@yahoo.com

DESIGN PROJECT MANAGER

RYAN SCHAITEL AYRES 700 PILGRIM WAY, SUITE 180 GREEN BAY, WI 54304 PHONE: 920-327-7840 EMAIL: schaitelr@ayresassociates.com

LANGLADE COUNTY

BRIAN BRAUN HIGHWAY COMMISSIONER 1521 ARCTIC STREET ANTIGO, WI 54409 PHONE: 715-627-6272 EMAIL: bbraun@co.langlade.wi.us

LINCOLN COUNTY

JOHN HANZ HIGHWAY COMMISSIONER 100 COOPER STREET MERRILL, WI 54452 PHONE: 715-539-2500 EMAIL: john.hanz@co.lincoln.wi.us

GENERAL NOTES

THERE ARE NO KNOWN UTILITY FACILITIES WITHIN THE PROJECT AREA. HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THIS.

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

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.

BEARINGS SHOWN ON THE PLAN ARE TRUE BEARINGS.

ALL TIES ON THIS PLAN ARE HORIZONTAL UNLESS DESCRIBED OTHERWISE.

WISDOT WILL FURNISH A BENCHMARK MONUMENT TO BE SET BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER IN THE FIELD.

RUNOFF COEFFICIENT TABLE

					ŀ	HYDROLOGIC	SOIL G	ROUP				
		Α		В		С			D			
			SLOPE	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
	.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
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPETURF:			.25			.27			.28			.30
SIDE SLOPETORF.			.32			.34			.36			.38
PAVEMENT:												
ASPHALT:						.70 -	95					
CONCRETE:						.80	95					
BRICK:						.70 -	80					
DRIVES, WALKS:						.75 -	85					
ROOFS:						.75 -	95					
GRAVEL ROADS, SHOULDERS:						.40	60					

TOTAL PROJECT AREA = <u>0.17</u> ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.15 ACRES

HWY: COUNTY LINE ROAD

COUNTY: LANGLADE

7/15/2024 5:45 PM

GENERAL NOTES

SHEET

I:\45\450640 COUNTY LINE ROAD T SUMMIT\C3D\SHEETSPLAN\020101-GN.DWG FILE NAME :

9846-00-70

PROJECT NO:

LAYOUT NAME - 020101-gn

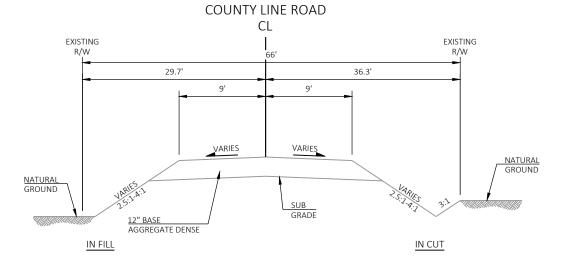
PLOT BY: GARNICA, BRANDON

PLOT NAME

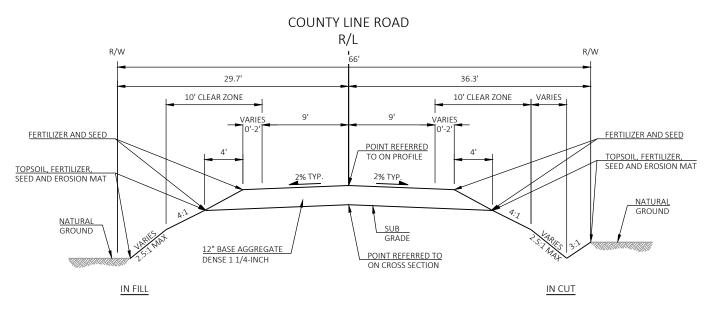
PLOT SCALE :

Ε





EXISTING TYPICAL SECTION FOR COUNTY LINE ROAD STA 9+33 - STA 10+67



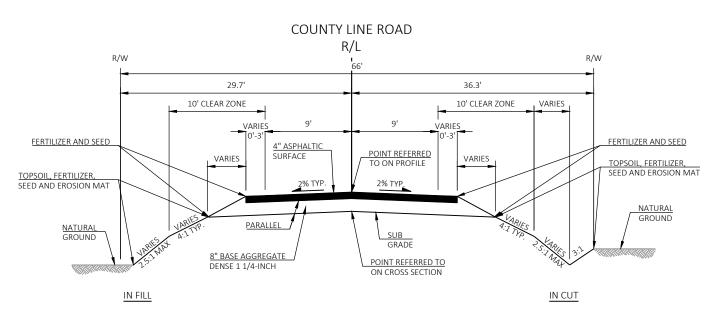
FINISHED TYPICAL SECTION FOR COUNTY LINE ROAD

STA 9+33 - STA 9+51.7 STA 10+48.3 - STA 10+67

Ε PROJECT NO: 9846-00-70 HWY: COUNTY LINE ROAD COUNTY: LANGLADE TYPICAL SECTIONS SHEET I:\45\450640 COUNTY LINE ROAD_T SUMMIT\C3D\SHEETSPLAN\020301-TS.DWG PLOT BY: GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT FILE NAME : 7/15/2024 5:45 PM

WISDOT/CADDS SHEET 42

WISDOT/CADDS SHEET 42



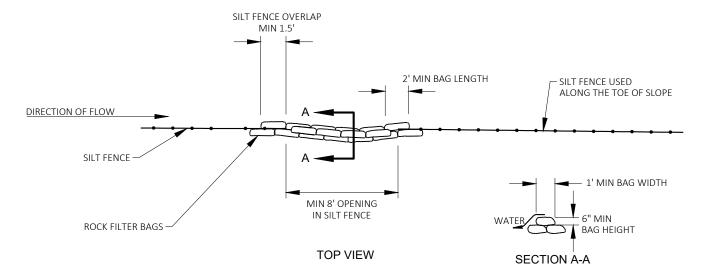
FINISHED TYPICAL SECTION FOR COUNTY LINE ROAD

STA 9+51.7 - STA 9+76.7 STA 10+23.3 - STA 10+48.3

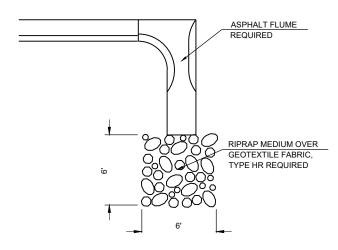
Ε COUNTY: LANGLADE PROJECT NO: 9846-00-70 HWY: COUNTY LINE ROAD TYPICAL SECTIONS SHEET FILE NAME : PLOT DATE : 7/15/2024 5:45 PM PLOT BY: GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT

I:\45\450640 COUNTY LINE ROAD_T SUMMIT\C3D\SHEETSPLAN\020301-TS.DWG LAYOUT NAME - 020302-ts

WISDOT/CADDS SHEET 42



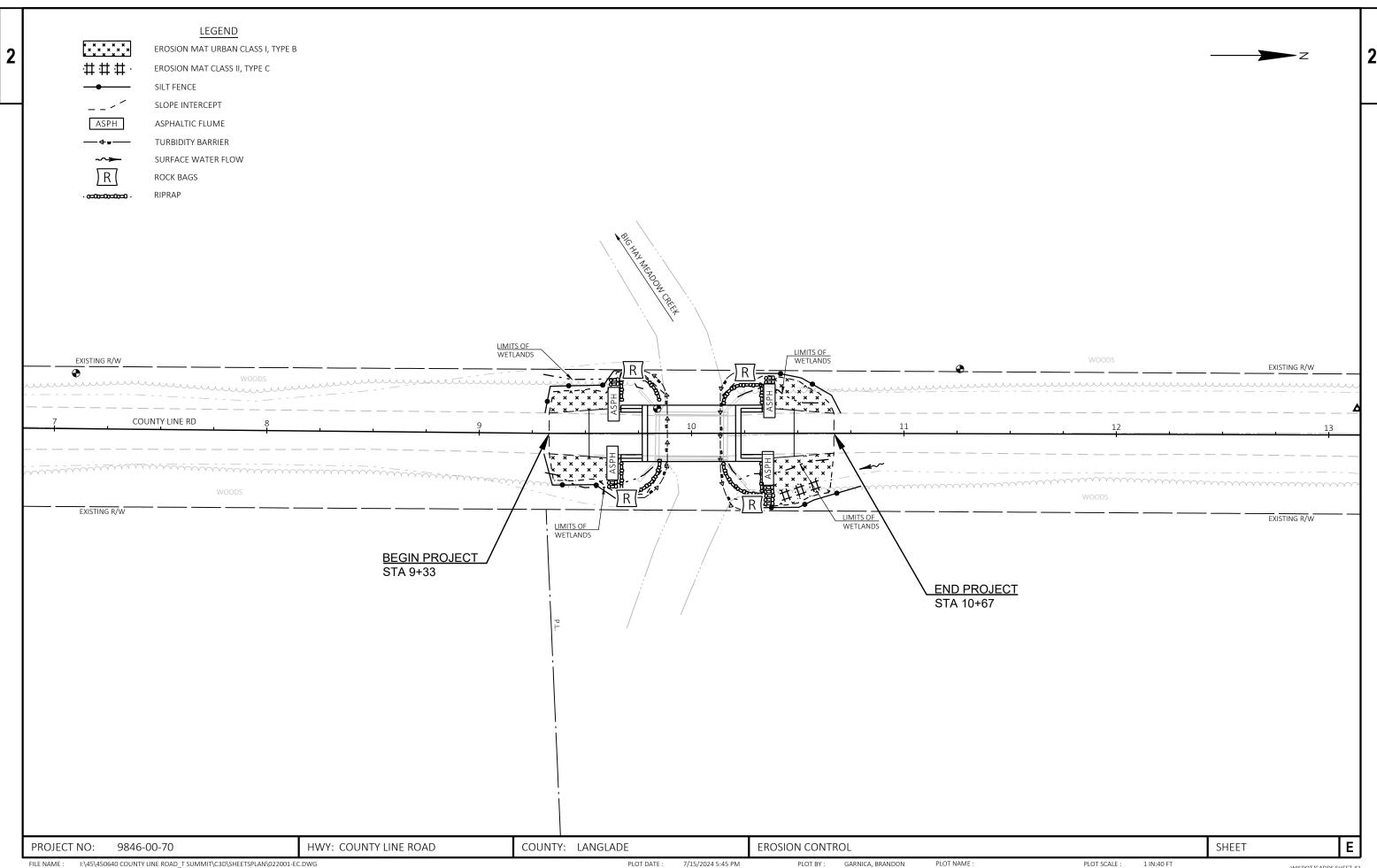
ROCK BAGS USED FOR SILT FENCE RELIEF



RIPRAP MEDIUM AT ASPHALT FLUME (SEE MISCELLANEOUS QUANTITIES FOR LOCATION)

Ε PROJECT NO: 9846-00-70 HWY: COUNTY LINE ROAD COUNTY: LANGLADE CONSTRUCTION DETAILS SHEET FILE NAME : PLOT BY: GARNICA, BRANDON PLOT SCALE : 1 IN:10 FT

I:\45\450640 COUNTY LINE ROAD_T SUMMIT\C3D\SHEETSPLAN\021001-CD.DWG LAYOUT NAME - 021001-cd 7/15/2024 5:45 PM PLOT NAME :



I:\45\450640 COUNTY LINE ROAD_T SUMMIT\C3D\SHEETSPLAN\022001-EC.DWG LAYOUT NAME - 022001-ec

PLOT DATE : 7/15/2024 5:45 PM PLOT BY: GARNICA, BRANDON

PLOT NAME :

PLOT SCALE : 1 IN:40 FT WISDOT/CADDS SHEET 42

SY LF

LF

EACH

201.000

88.000

88.000

1.000

201.000

88.000

88.000

1.000

					9846-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	2.000	2.000
0004	201.0205	Grubbing	STA	2.000	2.000
0006	203.0250	Removing Structure Over Waterway Remove Debris (structure) 01. P-34-918	EACH	1.000	1.000
8000	205.0100	Excavation Common	CY	58.000	58.000
0010	206.1001	Excavation for Structures Bridges (structure) 01. B-34-63	EACH	1.000	1.000
0012	210.1500	Backfill Structure Type A	TON	220.000	220.000
0014	213.0100	Finishing Roadway (project) 01. 9846-00-70	EACH	1.000	1.000
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	110.000	110.000
0018	455.0605	Tack Coat	GAL	8.000	8.000
0020	465.0105	Asphaltic Surface	TON	30.000	30.000
0022	465.0315	Asphaltic Flumes	SY	12.000	12.000
0024	502.0100	Concrete Masonry Bridges	CY	168.000	168.000
0026	502.3200	Protective Surface Treatment	SY	125.000	125.000
0028	502.3210	Pigmented Surface Sealer	SY	70.000	70.000
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	3,080.000	3,080.000
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	23,240.000	23,240.000
0034	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000
0036	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	440.000	440.000
0038	606.0200	Riprap Medium	CY	8.000	8.000
0040	606.0300	Riprap Heavy	CY	90.000	90.000
0042	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	160.000	160.000
0044	619.1000	Mobilization	EACH	1.000	1.000
0046	624.0100	Water	MGAL	4.000	4.000
0048	625.0100	Topsoil	SY	260.000	260.000
0050	628.1504	Silt Fence	LF	260.000	260.000
0052	628.1520	Silt Fence Maintenance	LF	510.000	510.000
0054	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0056	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0058	628.2008	Erosion Mat Urban Class I Type B	SY	220.000	220.000
0060	628.2027	Erosion Mat Class II Type C	SY	40.000	40.000
0062	628.6005	Turbidity Barriers	SY	120.000	120.000
0064	628.7570	Rock Bags	EACH	75.000	75.000
0066	629.0210	Fertilizer Type B	CWT	1.000	1.000
8800	630.0120	Seeding Mixture No. 20	LB	12.000	12.000
0070	630.0500	Seed Water	MGAL	6.000	6.000
0072	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0074	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0076	638.2602	Removing Signs Type II	EACH	5.000	5.000
0078	638.3000	Removing Small Sign Supports	EACH	5.000	5.000
0800	642.5001	Field Office Type B	EACH	1.000	1.000
0082	643.0420	Traffic Control Barricades Type III	DAY	882.000	882.000
0084	643.0705	Traffic Control Warning Lights Type A	DAY	1,512.000	1,512.000
0086	643.0900	Traffic Control Signs	DAY	882.000	882.000
8800	643.5000	Traffic Control	EACH	1.000	1.000
0090	645.0111	Geotextile Type DF Schedule A	SY	40.000	40.000
0000	0.45 0.400	O 1 (1) T 11D	0)/	004 000	004.000

Geotextile Type HR

Construction Staking Subgrade

Construction Staking Structure Layout (structure) 01. B-34-0063

Construction Staking Base

0092

0094

0096

0098

645.0120

650.4500 650.5000

650.6501

10/03/2024 06:02:54

Page 2

9846-00-70

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	Qty
0100	650.9911	Construction Staking Supplemental Control (project) 01. 9846-00-70	EACH	1.000	1.000
0102	650.9920	Construction Staking Slope Stakes	LF	88.000	88.000
0104	715.0502	Incentive Strength Concrete Structures	DOL	1,008.000	1,008.000
0106	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000
0108	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0110	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000

2	
J	
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			205.0100 COMMON EXCAVATION CY	AVAILABLE		EXPANDED FILL (13)			
	FROM/TO			MATERIAL	UNEXPANDED	FACTOR	MASS ORDINATE +/-		
DIVISION	STATION	LOCATION	CUT	(5)	FILL	1.30	(14)	WASTE	COMMENT
1	9+33 - 10+67	COUNTY LINE ROAD	58	58	28	36	22	22	
			58	58	28	36	22	22	
	TOTAL CO	MMON EXC	58						

NOTES:

(5) AVAILABLE MATERIAL = CUT

(13) EXPANDED FILL FACTOR = 1.30

(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

BASE AGGREGATE DENSE 1 1/4-INCH

				201.0105	201.0205
				CLEARING	GRUBBING
STATION	TO	STATION	LOCATION	STA	STA
9+00	-	11+00	COUNTY LINE ROAD	2	2
			TOTAL	2	2

				305.0120	624.0100	
				BASE AGGREGATE		
				DENSE 1 1/4-INCH	WATER	
STATION	TO	STATION	LOCATION	TON	MGAL	REMARKS
9+33	-	9+51	COUNTY LINE ROAD	28	1	ROADWAY
9+51	-	9+77	COUNTY LINE ROAD	28	1	SOUTH APPROACH
10+23	-	10+48	COUNTY LINE ROAD	28	1	NORTH APPROACH
 10+48	-	10+67	COUNTY LINE ROAD	26	1	ROADWAY
			TOTAL	110	4	_

ASPHALTIC SURFACE

ASPHALTIC FLUMES

				465.0315	
STATION	TO	STATION	LOCATION	SY	REMARKS
9+61	-	9+67	COUNTY LINE ROAD	3	SOUTHWEST QUADRANT
9+61	-	9+67	COUNTY LINE ROAD	3	SOUTHEAST QUADRANT
10+33	-	10+39	COUNTY LINE ROAD	3	NORTHWEST QUADRANT
10+33	-	10+39	COUNTY LINE ROAD	3	NORTHEAST QUADRANT
			TOTAL	12	•

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

PROJECT NO: 9846-00-70 HWY: 0	7: COUNTY LINE ROAD CO	COUNTY: LANGLAGE	MISCELLANEOUS QUANTITIES	SHEET:	Е
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LANDSCAPING ITEMS

				625.0100	628.2008	628.2027	629.0210	630.0120	630.0500
					EROSION MAT URBAN	EROSION MAT	FERTILIZER TYPE	SEEDING	
				TOPSOIL	CLASS I TYPE B	CLASS II TYPE C	В	MIXTURE NO. 20	SEED WATER
STATION	TO	STATION	LOCATION	SY	SY	SY	CWT	LB	MGAL
9+33	-	9+66	COUNTY LINE ROAD, RT	44	44	-	0.1	2.0	1.0
9+33	-	9+66	COUNTY LINE ROAD, LT	36	36	-	0.1	1.6	0.8
10+20	-	10+67	COUNTY LINE ROAD, RT	78	46	32	0.1	3.5	1.7
10+23	-	10+67	COUNTY LINE ROAD, LT	46	46	-	0.1	2.1	1.0
UNDI	ISTRIE	BUTED	COUNTY LINE ROAD	56	48	8	0.6	2.3	1.1
			TOTAL	260	220	40	1	12	6

SILT FENCE

				628.1504 SILT	628.1520 SILT FENCE
				FENCE	MAINTENANCE
STATION	TO	STATION	LOCATION	LF	LF
9+33	-	9+68	COUNTY LINE ROAD, LT	52	104
9+33	-	9+64	COUNTY LINE ROAD, RT	48	96
10+29	-	10+67	COUNTY LINE ROAD, LT	48	96
10+33	-	10+67	COUNTY LINE ROAD, RT	55	110
UNDI	STRIE	BUTED	COUNTY LINE ROAD	57	104
			TOTAL	260	510

MOBILIZATIONS EROSION CONTROL

			628.1905	628.1910
			MOBILIZATIONS	MOBILIZATIONS
			EROSION	EMERGENCY
			CONTROL	EROSION CONTRO
N TO	STATION	LOCATION	EACH	EACH
-	10+67	COUNTY LINE ROAD	5	3
		TOTAL	5	3
			- 10+67 COUNTY LINE ROAD	MOBILIZATIONS EROSION CONTROL TO STATION LOCATION EACH - 10+67 COUNTY LINE ROAD 5

ROCK BAGS

628.7570 STATION LOCATION EACH 628.6005 LOCATION SY REMARKS 9+66 COUNTY LINE ROAD, RT 15 9+66 COUNTY LINE ROAD, LT 15 60 COUNTY LINE ROAD SOUTH ABUTMENT 10+30 COUNTY LINE ROAD, RT 15 COUNTY LINE ROAD 60 NORTH ABUTMENT 10+30 COUNTY LINE ROAD, LT 15 UNDISTRIBUTED COUNTY LINE ROAD 15 TOTAL 120 TOTAL

RIPRAP AND GEOTEXTILE TYPE HR

				606.0200	645.0120
				RIPRAP	GEOTEXTILE
				MEDIUM	TYPE HR
 STATION	TO	STATION	LOCATION	CY	SY
9+61	-	9+67	COUNTY LINE ROAD, LT	2	4
9+61	-	9+67	COUNTY LINE ROAD, RT	2	4
10+33	-	10+39	COUNTY LINE ROAD, LT	2	4
 10+33	-	10+39	COUNTY LINE ROAD, RT	2	4
			TOTAL	8	16

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

TURBIDITY BARRIERS

PROJECT NO: 9846-00-70	HWY: COUNTY LINE ROAD	COUNTY: LANGLAGE	MISCELLANEOUS QUANTITIES	SHEET:	E
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FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT SCALE : 1:1

3

REMOVING SIGNS

3

<u>SIGNS</u>

TOTAL

638.2602 638.3000 634.0612 637.2230 REMOVING REMOVING SMALL POSTS WOOD 4X6-SIGNS TYPE II SIGNS TYPE II SIGN SUPPORTS INCH X 12-FT REFLECTIVE F STATION LOCATION EACH REMARKS LOCATION STATION EACH REMARKS 9+84 COUNTY LINE ROAD BRIDGESIGN 1 9+67 COUNTY LINE ROAD OM3-R 9+84 COUNTY LINE ROAD **BRIDGE SIGN** 9+67 COUNTY LINE ROAD OM3-L 10+15 COUNTY LINE ROAD **BRIDGE SIGN** 10+33 COUNTY LINE ROAD OM3-R 10+15 COUNTY LINE ROAD **BRIDGE SIGN** 10+33 COUNTY LINE ROAD OM3-L NARROW BRIDGE SIGN COUNTY LINE ROAD TOTAL TOTAL

TRAFFIC CONTROL SUMMARY

	ARRPOXIMATE	643.0 TRAFFIC C BARRICADI	ONTROL	TRAFFIC	.0705 CONTROL IGHTS TYPE A	643.0 TRAF CONTROI	FIC	
	SERVICE	NO. IN		NO. IN		NO. IN		
LOCATION	DAYS	SERVICE	DAY	SERVICE	DAY	SERVICE	DAY	REMARKS
SOUTH OF WORK ZONE LIMITS	63	4	252	8	504	6	378	SEE BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL
SOUTH WORK ZONE LIMITS	63	3	189	4	252	1	63	SEE BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL
NORTH WORK ZONE LIMITS	63	3	189	4	252	1	63	SEE BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL
NORTH OF WORK ZONE LIMITS	63	4	252	8	504	6	378	SEE BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAI

1,512

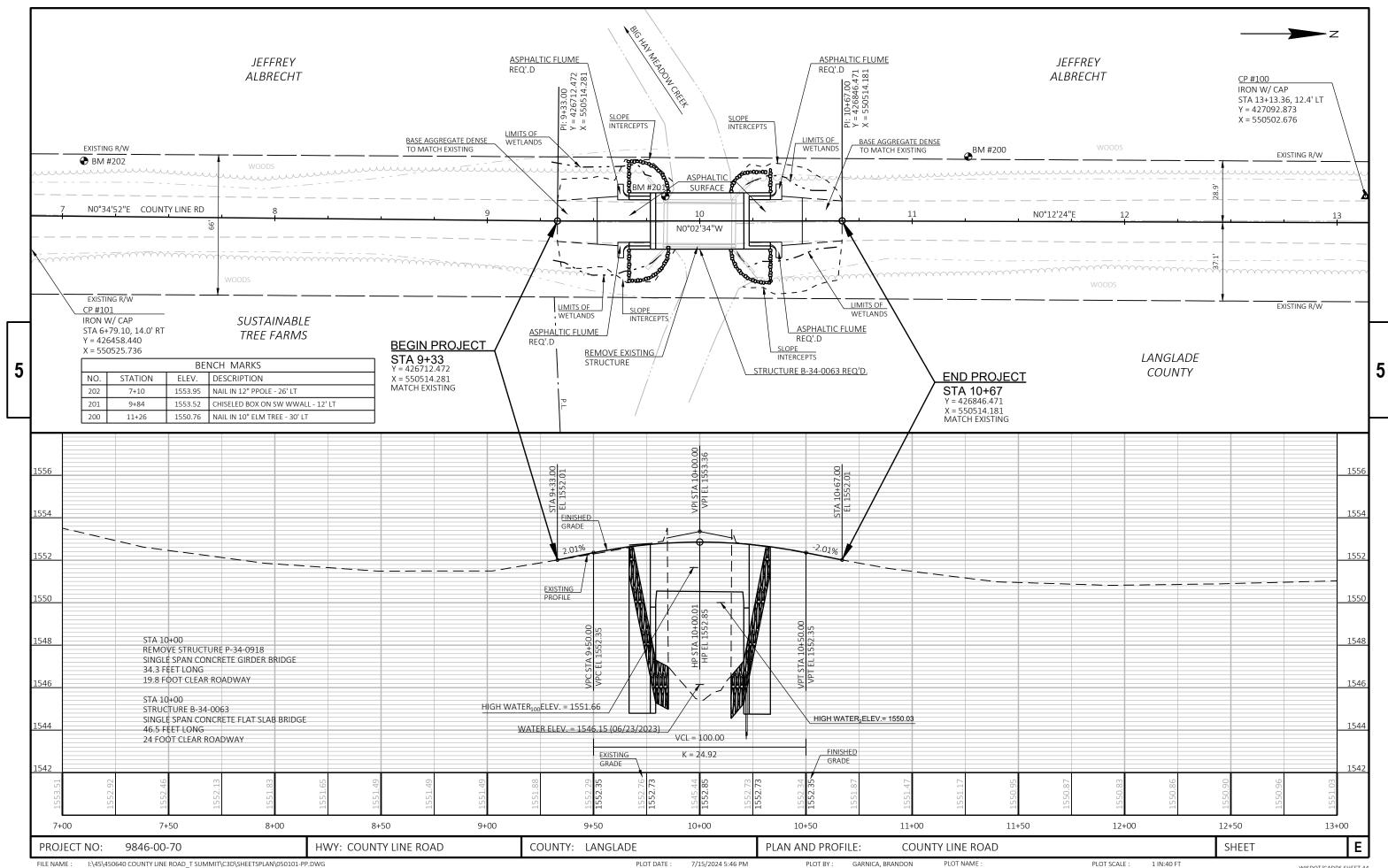
CONSTRUCTION STAKING

CATECORY	STATION	T-0	CTATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE	650.5000 CONSTRUCTION STAKING BASE	650.6501.01 CONSTRUCTION STAKING STRUCTURE LAYOUT B-34-0063	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 9846-00-70	650.9920 CONSTRUCTION STAKING SLOPE STAKES	DEMANAG		<u>INSTALLING</u>	and maintaining e	BIRD DETERRENT SYSTEM
CATEGORY	STATION	10	STATION	LOCATION	LF	LF	EACH	EACH	LF	REMARKS				000 2000 5 01
0010	9+33	_	9+77	COUNTY LINE ROAD	44	44	_	1	44					999.2000.S.01 INSTALLING AND
		-				44	-	1						
0010	10+23	-	10+67	COUNTY LINE ROAD	44	44	-	-	44					MAINTAINING BIRD
				TOTAL 0010	88	88	0	1	88					DETERRENT SYSTEM
														10+00
0020	1	0+00	1	COUNTY LINE ROAD	-	-	1	-	-	B-34-0063	_	STATION	LOCATION	EACH
				TOTAL 0020	0	0	1	0	0		_			
											_	10+00	COUNTY LINE ROAL) 1
				PROJECT TOTALS	88	88		1	88				TOTAL	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

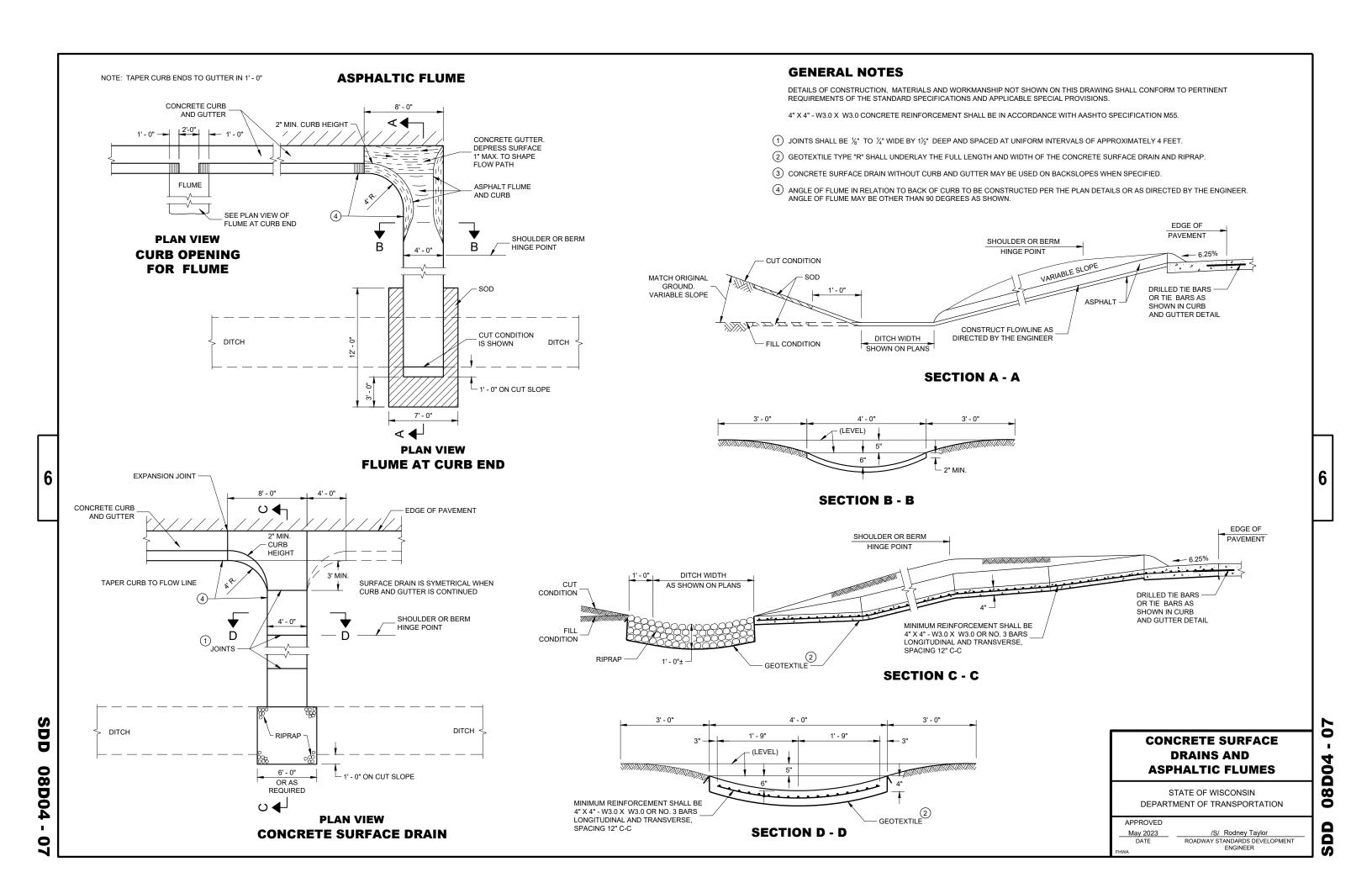
PROJECT NO: 9846-00-70	HWY: COUNTY LINE ROAD	COUNTY: LANGLAGE	MISCELLANEOUS QUANTITIES	SHEET:	E
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882



Standard Detail Drawing List

)8D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
L2A03-10	NAME PLATE (STRUCTURES)
L3C19-03	HMA LONGITUDINAL JOINTS
L5C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15С02-09в	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
L5C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15С11-10в	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



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

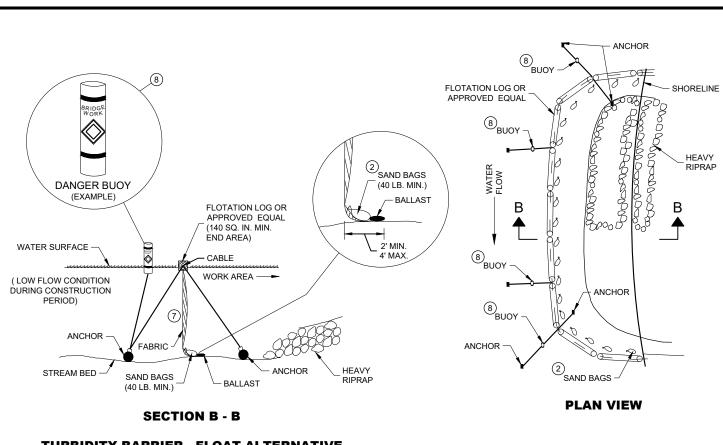
(WHEN REQUIRED BY THE ENGINEER)



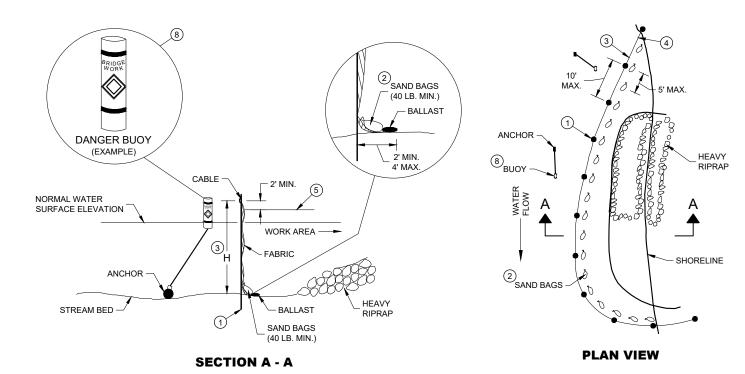
6

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D.D. 8 E 9-6



TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6



TURBIDITY BARRIER - STANDARD POST INSTALLATION

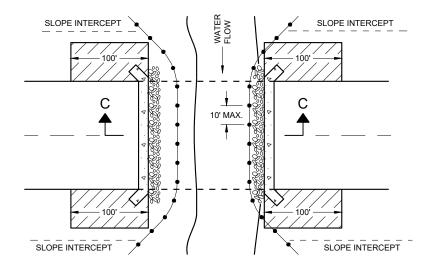
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

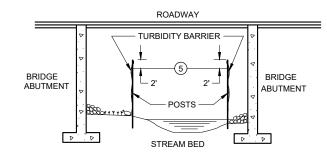
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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







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**

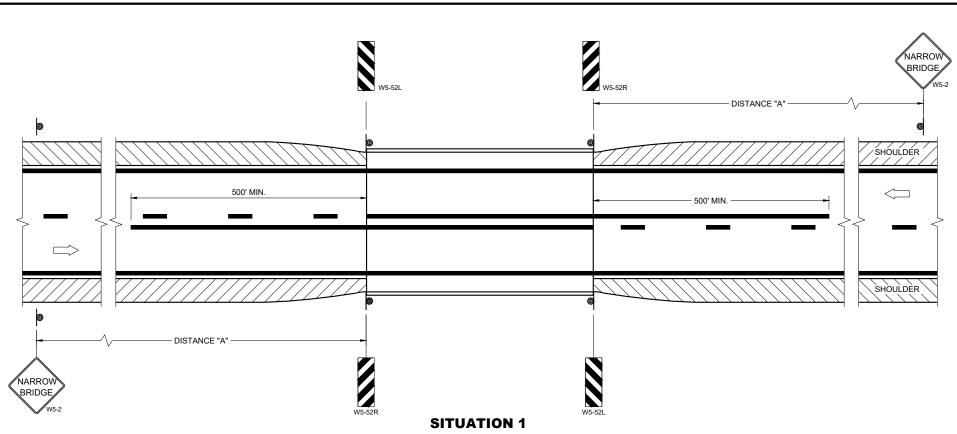
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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	

SDD 15C11

GENERAL NOTES

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



DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



42" CONE

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



VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

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





RURAL AREA (See Note 2)



GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (\pm) 3".

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

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



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

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

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

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

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

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

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42





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



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

HWY:

SIGN SHAPE OTHER THAN	DIAMOND				
(THREE POSTS 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

CHEET 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:

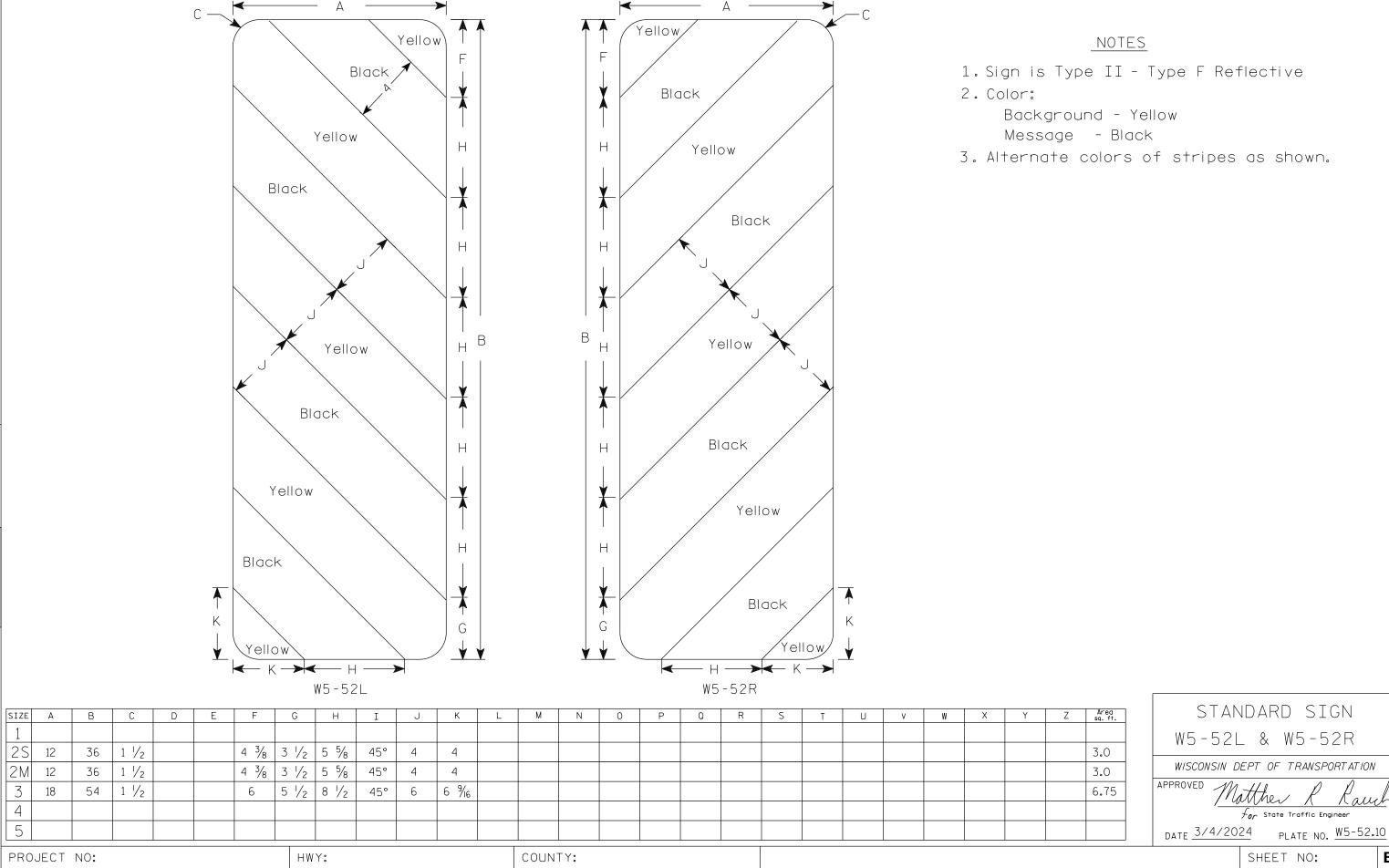
PLOT DATE: 19-APRIL 2022 11:55

SIGN

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

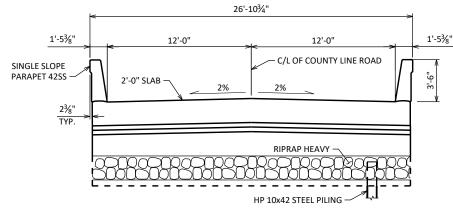
Ε



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



9846-00-70



TYPICAL SECTION THRU BRIDGE

DESIGN DATA

LIVE LOAD:

- C/L OF COUNTY LINE ROAD

DESIGN LOADING: HL-93 INVENTORY RATING: RF = 1.17 OPERATING RATING:

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 f'_c = 4,000 PSI SUPERSTRUCTURE f'c = 3,500 PSI ALL OTHER -BAR STEEL REINFORCEMENT GRADE 60 $f_v = 60,000 \text{ PSI}$

LIST OF DRAWINGS:

- GENERAL PLAN
- **QUANTITIES AND NOTES**
- SUBSURFACE EXPLORATION
- SOUTH ABUTMENT
- SOUTH ABUTMENT WING DETAILS
- SOUTH ABUTMENT PILE LAYOUT AND BILL OF BARS
- NORTH ABUTMENT
- NORTH ABUTMENT WING DETAILS
- NORTH ABUTMENT PILE LAYOUT AND BILL OF BARS
- SUPERSTRUCTURE
- 11. SUPERSTRUCTURE PLAN
- 12. SINGLE SLOPE PARAPET 42SS

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON 10x42 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.

ESTIMATED 55'-0" LONG AT SOUTH ABUTMENT. ESTIMATED 55'-0" LONG AT NORTH ABUTMENT.

**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

HYDRAULIC DATA

100-YEAR FREQUENCY:

Q₁₀₀= 1650 C.F.S.

Q_{BRIDGE} = 1300 C.F.S. Q_{ROADWAY} = 350 C.F.S.

V₁₀₀= 6.5 F.P.S.

HW₁₀₀= EL. 1551.66 WATERWAY AREA = 199 SQ. FT. DRAINAGE AREA = 17.8 SQ. MI. SCOUR CRITICAL CODE = 5

2-YEAR FREQUENCY:

Q₂= 450 C.F.S. V₂= 2.9 F.P.S. HW₂= EL. 1550.03

TRAFFIC DATA

FEATURE ON: ADT = 15 (2025) ADT = 15 (2045)

R.D.S. = 30 MPH

6/2/2024

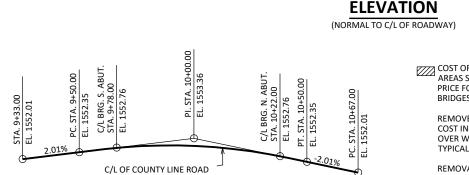
STRUCTURE DESIGN CONTACTS:

AARON BONK 608-261-0261 KRISTOFER OLSON 920-498-1200 NO. DATE REVISION ORIGINAL PLANS PREPARED BY 700 PILGRIM WAY, SUITE 180 GREEN BAY, WI 54304 www.AyresAssociates.com STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 08/13/24 CHIEF STRUCTURES DESIGN ENGINEER STRUCTURE B-34-63

COUNTY LINE ROAD OVER BIG HAY MEADOW CREEK

LANGLADE AASHTO LRFD BRIDGE DESIGN SPECIFICATION DESIGNED DEAWN PLANS
NBE CK'D JMC BY JMC/CLP CK'D

GENERAL PLAN



EL. 1544.77 —

HP 10x42 STEEL PILING

PROFILE GRADE LINE

TYP. AT ABUTMENTS -

INDICATES WING NUMBER

1'-3"

TOE OF RIPRAP

STA. 9+85.2±

END OF DECK STA. 9+76.75

C/L OF S. ABUT.

STA. 9+78.00

END OF EX. BRIDGE

STA. 9+83.1±

NAME PLATE -

SINGLE SLOPE

PARAPET 42SS -

1560

1550

1540

go operanaj-

L RÉNCH

MARK CAP

TOP OF BERM

6'-0"

EL. 1547.27

HEAVY - TYP.

HIGH WATER₁₀₀ EL. 1551.66 -

- EXISTING

GROUND LINE

COST OF EXCAVATION OR FILL IN THE HATCHED AREAS SHALL BE INCLUDED IN THE CONTRACT PRICE FOR "EXCAVATION FOR STRUCTURES BRIDGES B-34-63"

46'-6" BACK TO BACK OF ABUTMENTS

REMOVAL OF ROCKS PILED WITHIN

- STRUCTURE B-34-63

10+00

PLAN

SINGLE-SPAN CONCRETE FLAT SLAB BRIDGE

WATERWAY IS REQUIRED

1'-3"

TOE OF RIPRAP

END OF DECK

STA. 10+23.25

END OF EX. BRIDGE

C/L OF N. ABUT.

STA. 10+22.00

STA. 10+16.9±

EXISTING STRUCTURE, P.34-918, 34' SINGLE SPAN CAST-IN-PLACE CONCRETE GIRDER BRIDGE ON CONCRETE ABUTMENTS,

TO BE REMOVED

- WATER EL. 1546.15

EL. 1547.27

– EL. 1544.77

RIPRAP HEAVY AND

STA, 10+14.8±

REMOVE EXISTING STRUCTURE AS NEEDED. COST INCLUDED IN "REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS" ITEM. TYPICAL AT ALL SUBSTRUCTURES.

REMOVAL OF ROCKS PILED WITHIN WATERWAY ARE INCIDENTAL TO "REMOVING STRUCTURE

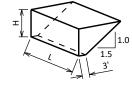
BENCH MARK

[NO.	STATION	DESCRIPTION	ELEV.
	202	7+10	NAIL IN 12" PPOLE - 26' LT	1553.95
	201	9+84	CHISELED BOX ON SW WWALL - 12' LT	1553.52
ĺ	200	11+26	NAIL IN 10" ELM TREE - 30' LT	1550.76

SHEET 1 OF 12

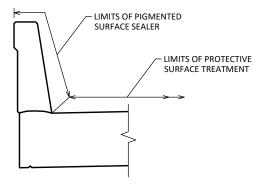
BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	S. ABUT.	N. ABUT.	TOTALS
203.0250	REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS (P-34-918)	EACH				1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-34-63	EACH				1
210.1500	BACKFILL STRUCTURE TYPE A	TON		110	110	220
502.0100	CONCRETE MASONRY BRIDGES	CY	29.9	29.9	108.1	168
502.3200	PROTECTIVE SURFACE TREATMENT	SY	125			125
502.3210	PIGMENTED SURFACE SEALER	SY	70			70
505.0400	0.1500 BACKFILL STRUCTURE TYPE A 2.0100 CONCRETE MASONRY BRIDGES 2.3200 PROTECTIVE SURFACE TREATMENT 2.3210 PIGMENTED SURFACE SEALER 5.0400 BAR STEEL REINFORCEMENT HS STRUCTURES 5.0600 BAR STEEL REINFORCEMENT HS COATED STRUCTURES 6.0500 RUBBERIZED MEMBRANE WATERPROOFING 0.1100 PILING STEEL HP 10-INCH X 42 LB 6.0300 RIPRAP HEAVY 2.0406 PIPE UNDERDRAIN WRAPPED 6 - INCH 5.0111 GEOTEXTILE TYPE DF SCHEDULE A			1,540	1,540	3,080
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	19,320	1,960	1,960	23,240
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		9	9	18
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF		220	220	440
606.0300	RIPRAP HEAVY	CY		35	55	90
612.0406	PIPE UNDERDRAIN WRAPPED 6 - INCH	LF		80	80	160
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		20	20	40
645.0120	GEOTEXTILE TYPE HR	SY		75	110	185
	NON-BID ITEMS					
	FILLER	SIZE				1/2", 3/4"

BOTTOM OF ABUTMENT FOR THE ENTIRE ABUTMENT BODY LENGTH



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)
- = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)
- = V_{CF}(EF)/27

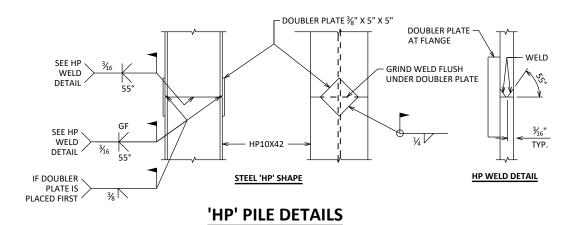


PROTECTIVE SURFACE TREATMENT DETAIL

BRIDGE ROADWAY SUPERSTRUCTURE **PAVEMENT** - ROADWAY ARLITMENT SUBSURFACE BACKFACE PAY LIMITS OF BACKFILL ACKFILL STRUCTURE TYPE A - "GEOTEXTILE TYPE DF SCHEDULE A" LIMITS. EXTEND 2'-0" ABOVE

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.
- ★ FOR BOTTOM OF ABUTMENTS LOCATED BELOW NORMAL WATER, PLACE DRAIN ABOVE NORMAL WATER, SEE BRIDGE MANUAL 12.6.1 FOR ADDITIONAL GUIDANCE



NOMINAL ועעעעעעען **SECTION** MAX. **PLAN**

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.

GENERAL NOTES

STATE PROJECT NUMBER

9846-00-70

DRAWINGS SHALL NOT BE SCALED.

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

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

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD $\frac{1}{8}$ " BELOW THE SURFACE OF CONCRETE.)

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SOWN 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-34-63" SHALL BE THE EXISTING GROUND LINE

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

PROTECTIVE SURFACE TREATMENT TO BE APPLIED AS SHOWN IN DETAIL ON THIS SHEET.

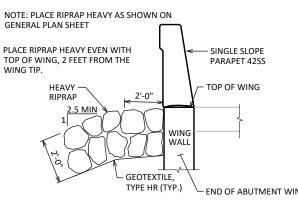
PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE

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

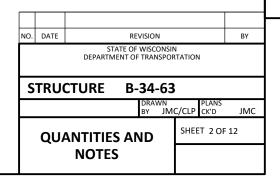
THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES

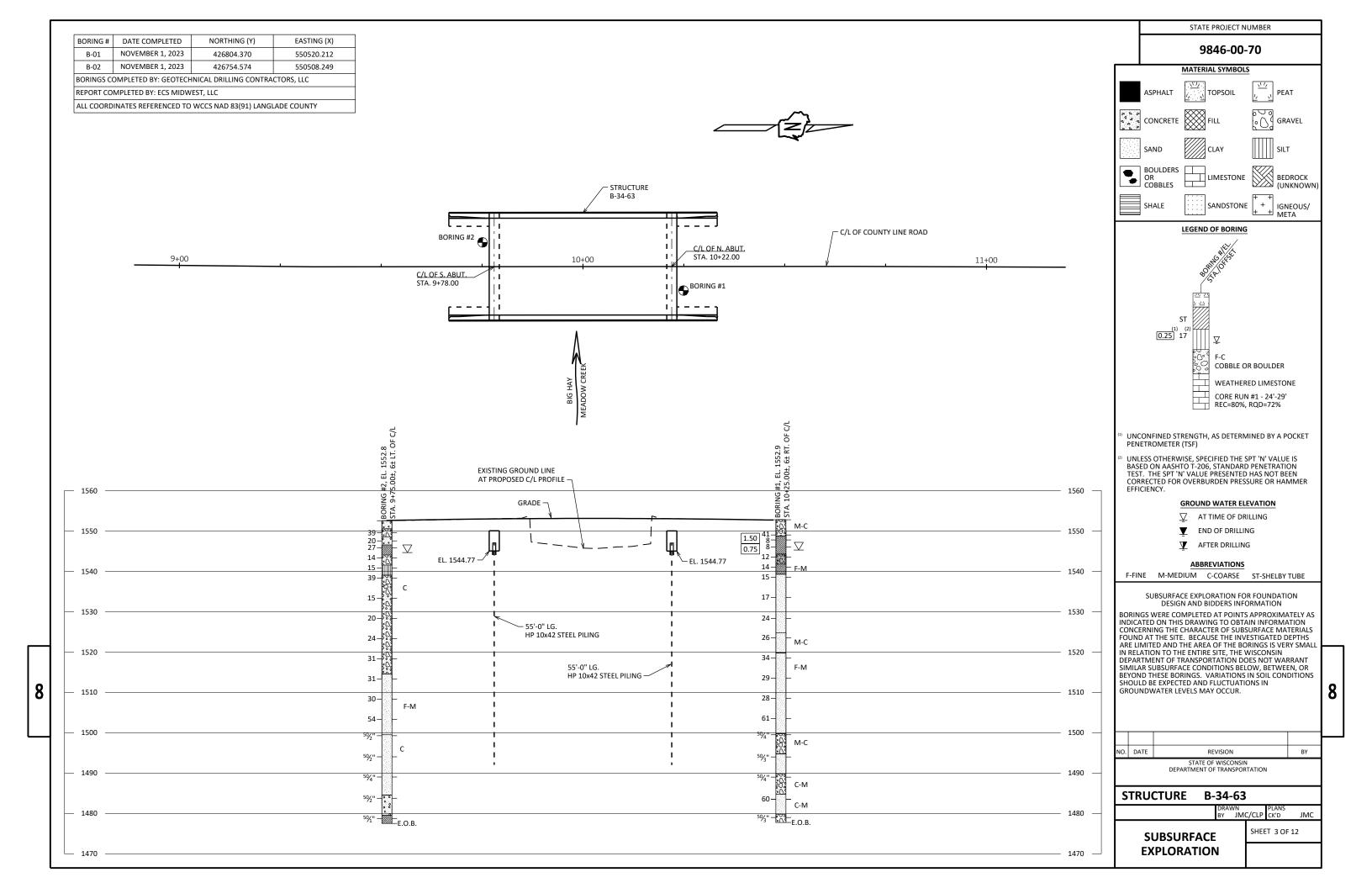
CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 STANDARDS SPECIFICATIONS.

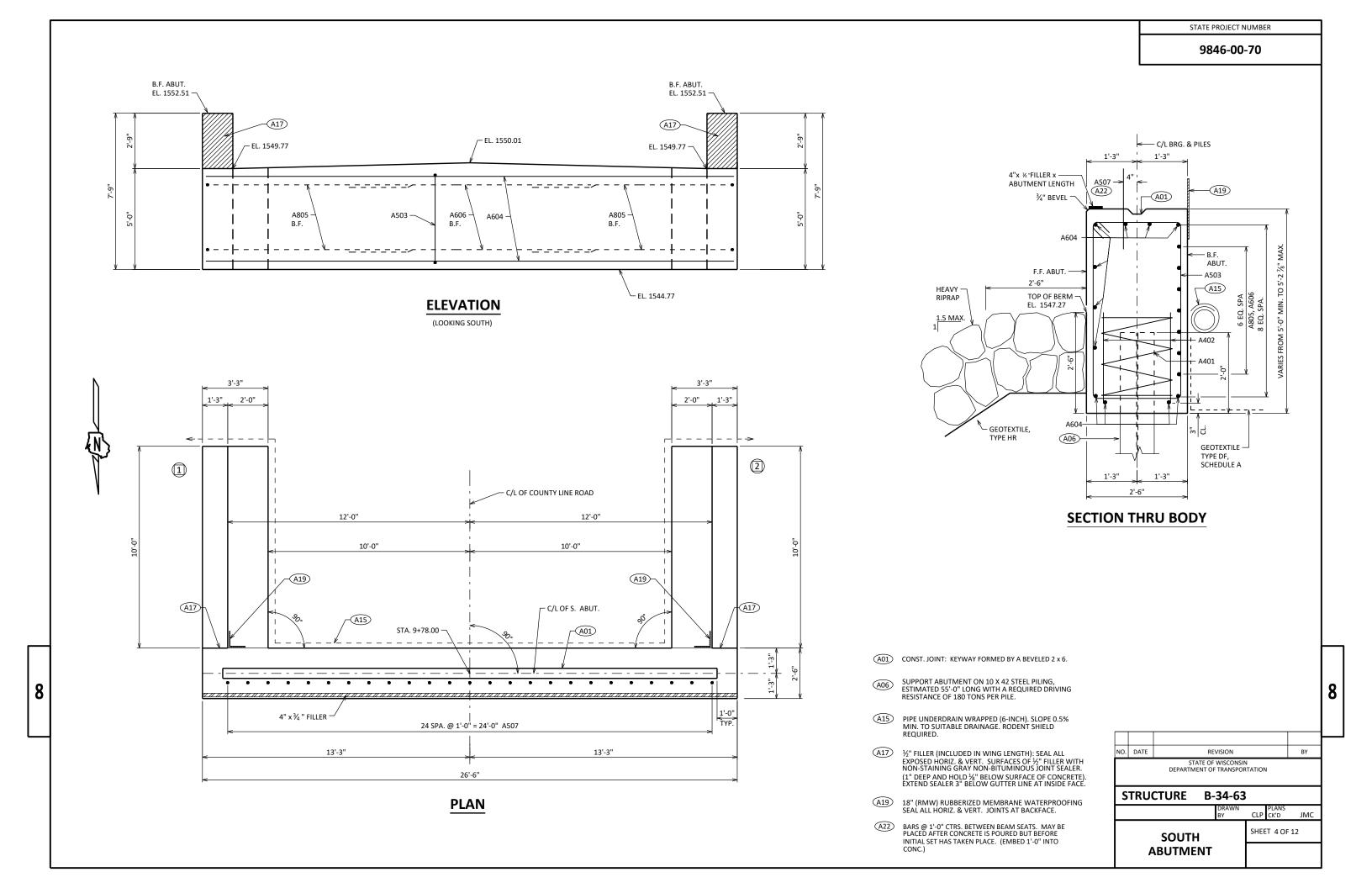
EXISTING SUBSTRUCTURE LOCATIONS ARE BASED ON SURVEY. EXTENT OF BELOW GRADE SUBSTRUCTURE ARE NOT KNOWN. REMOVE EXISTING SUBSTRUCTURE AS NEEDED TO BUILD NEW SUBSTRUCTURE. COST OF SUBSTRUCTURE REMOVAL IS CONSIDERED INCIDENTAL TO "REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS" BID ITEM.



TYPICAL FILL SECTION AT WING TIPS

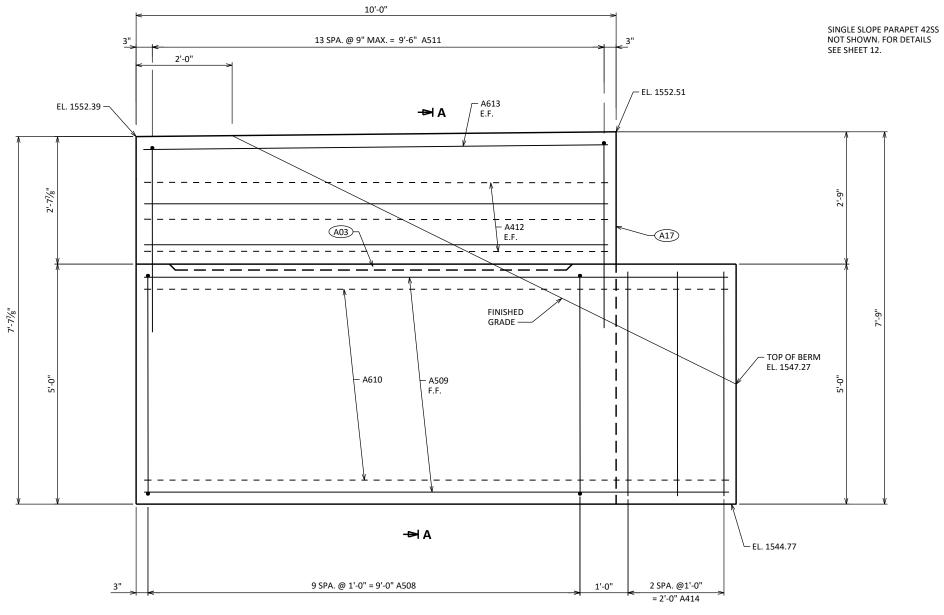


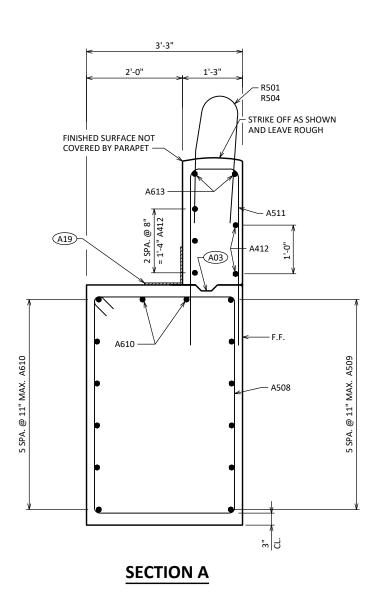




STATE PROJECT NUMBER

9846-00-70





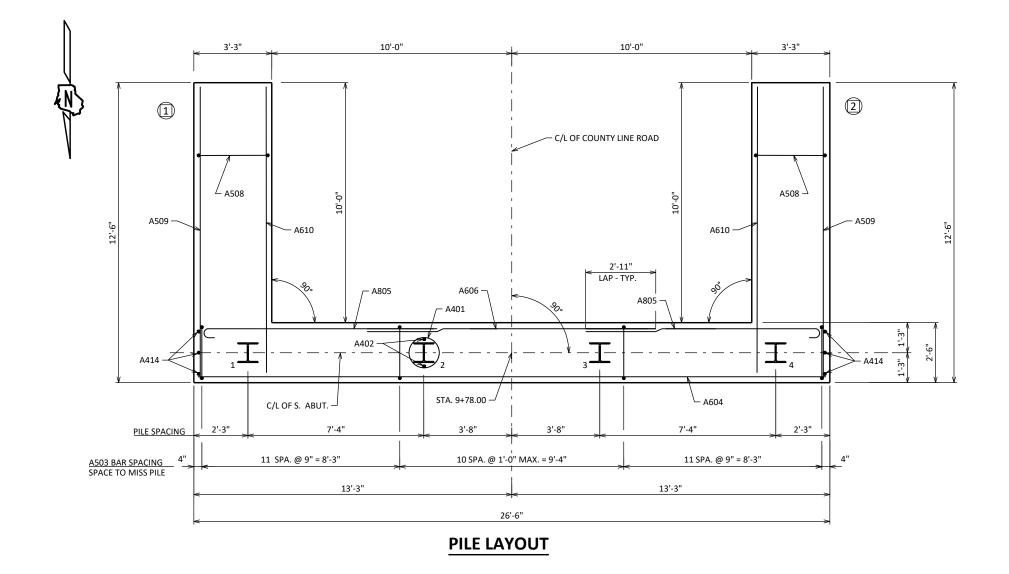
ELEVATION - WING 1

(WING 1 SHOWN - WING 2 SIMILAR)

- (A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).
- 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. (A17)
- (A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE			BY		
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION					
S	STRUCTURE B-34-63					
			DRAWN BY	CLP CK	ANS 'D	JMC
SOUTH ABUTMENT			SHEET 5 OF 12			
	WING DETAILS					

8

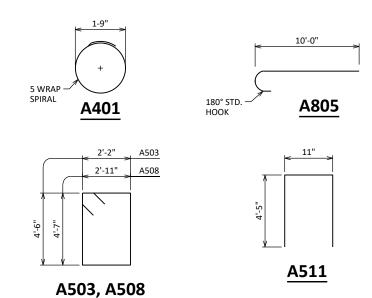


BILL OF BARS

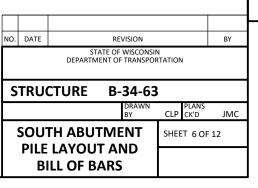
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

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		33	14'-0"	Х		BODY VERT.		
A604		11	26'-2"			BODY HORIZ.		
A805		14	10'-11"	Х		BODY HORIZ. @ WINGS 1 & 2 B.F.		
A606		7	12'-0"			BODY HORIZ. BETWEEN WINGS 1 & 2 B.F.		
A507	Х	25	2'-0"			BODY DOWELS		
A508	Х	20	15'-8"	Х		WINGS 1 & 2 VERT.		
A509	Х	12	12'-2"			WINGS 1 & 2 HORIZ. F.F.		
A610	Х	16	11'-11"			WINGS 1 & 2 HORIZ. B.F. & TOP		
A511	Х	28	9'-6"	Х		WINGS 1 & 2 VERT.		
A412	Х	10	9'-8"			WINGS 1 & 2 HORIZ. E.F.		
A613	Х	4	9'-8"			WINGS 1 & 2 HORIZ. E.F. TOP		
A414	Χ	6	4'-7"			BODY VERT. END @ WINGS 1 & 2		

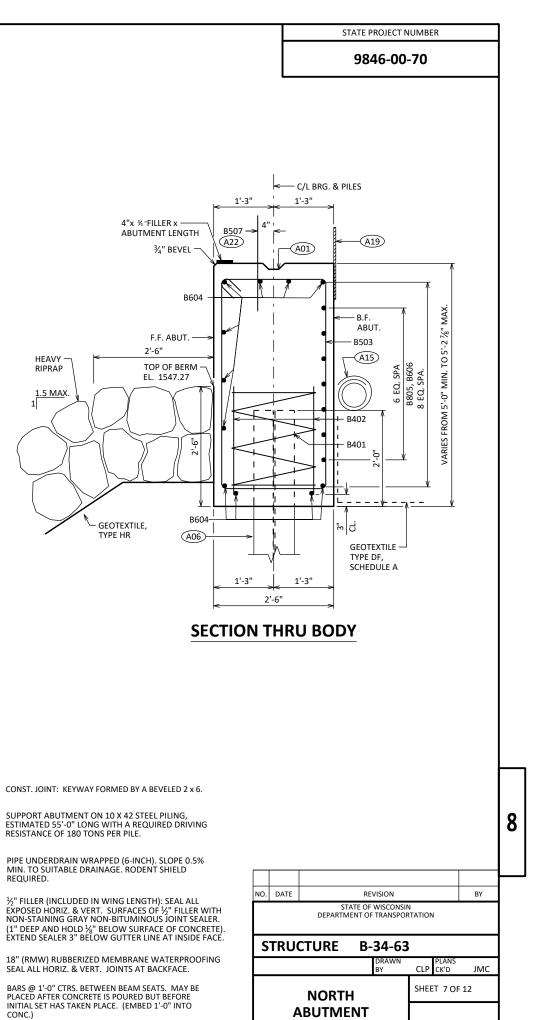
BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



A5U3, A5U8



8



4"x ¾ "FILLER x -

ABUTMENT LENGTH

¾" BEVEL

F.F. ABUT.

TOP OF BERM -

EL. 1547.27

2'-6"

GEOTEXTILE,

(A01) CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 x 6.

(A15)

(A19)

SUPPORT ABUTMENT ON 10 X 42 STEEL PILING, ESTIMATED 55'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.

PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL

BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

HEAVY -

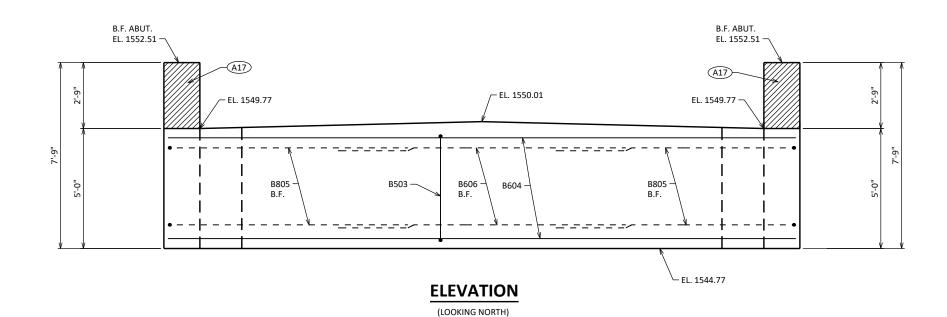
RIPRAP

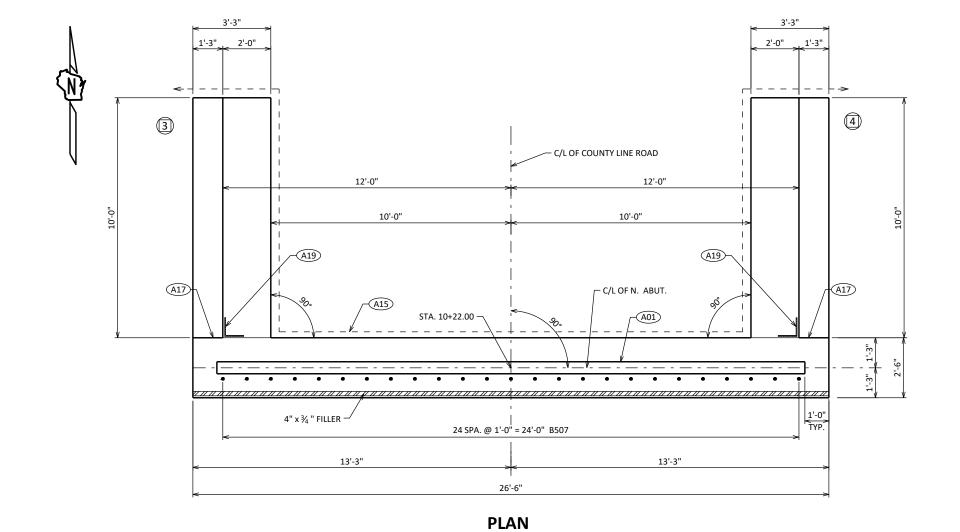
1.5 MAX

B604

B604-

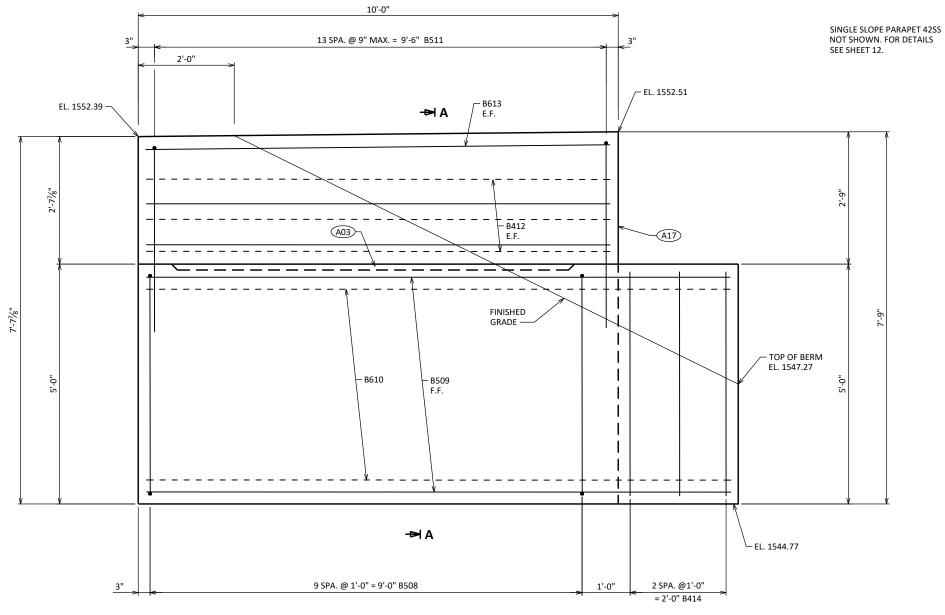
(A06)

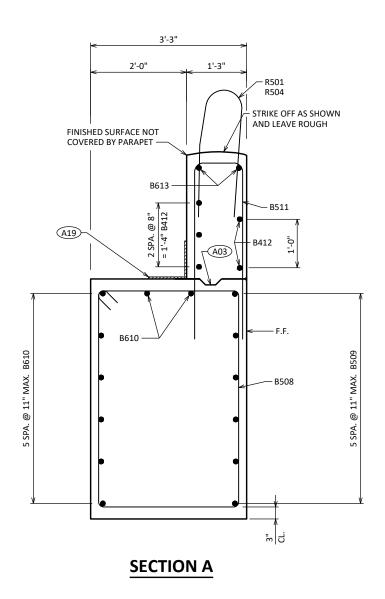




STATE PROJECT NUMBER

9846-00-70





ELEVATION - WING 3

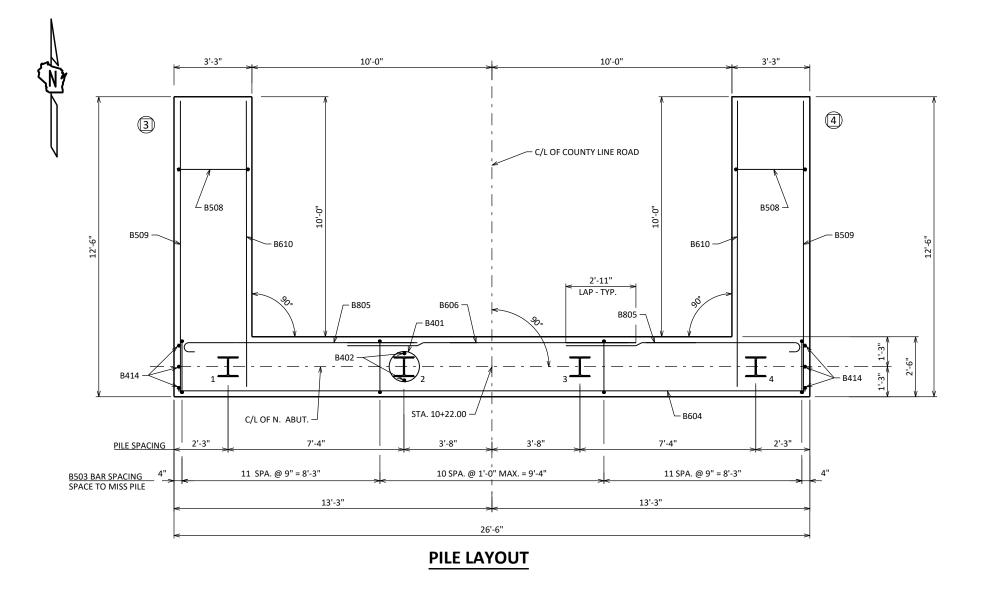
(WING 3 SHOWN - WING 4 SIMILAR)

(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.

NO.	DATE		REVISION			BY			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION									
STRUCTURE B-34-63									
			DRAWN BY	CLP	PLANS CK'D	JMC			
NORTH ABUTMENT SHEET 8 OF 12									
	W	ING DET							



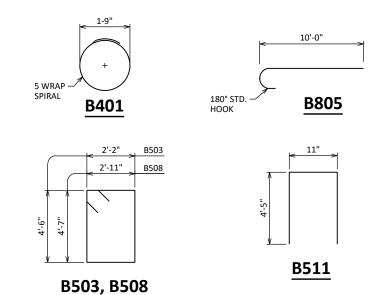
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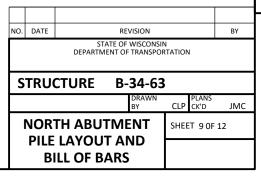
BILL OF BARS

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		33	14'-0"	Х		BODY VERT.	
B604		11	26'-2"			BODY HORIZ.	
B805		14	10'-11"	Х		BODY HORIZ. @ WINGS 3 & 4 B.F.	
B606		7	12'-0"			BODY HORIZ. BETWEEN WINGS 3 & 4 B.F.	
B507	Х	25	2'-0"			BODY DOWELS	
B508	Х	20	15'-8"	Х		WINGS 3 & 4 VERT.	
B509	Х	12	12'-2"			WINGS 3 & 4 HORIZ. F.F.	
B610	Х	16	11'-11"			WINGS 3 & 4 HORIZ. B.F. & TOP	
B511	Х	28	9'-6"	Х		WINGS 3 & 4 VERT.	
B412	Х	10	9'-8"			WINGS 3 & 4 HORIZ. E.F.	
B613	Х	4	9'-8"			WINGS 3 & 4 HORIZ. E.F. TOP	
B414	Х	6	4'-7"			BODY VERT. END @ WINGS 3 & 4	

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.





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 4'-0" CENTERS.

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

* 34" V-GROOVE. EXTEND V-GROOVE TO 6" FROM F.F.

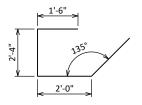
V-GROOVES ARE REQUIRED.

BILL OF BARS

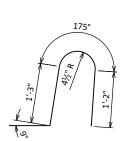
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION	
S1001	Х	66	40'-1"			SLAB LONG. BOT.	
S502	Х	80	26'-2"			SLAB TRANS. BOT.	
S503	Х	47	26'-2"			SLAB TRANS. TOP	
S404	Х	66	23'-11"			SLAB LONG. TOP	
S505	Х	54	7'-7"	Х		SLAB @ ABUT. DIAPHRAGM STIRRUPS	
S506	Х	4	26'-2"			SLAB @ ABUT. DIAPHRAGM TRANS.	
S507	Х	94	5'-0"			SLAB TRANS. TOP @ EDGES	
S508	Х	140	4'-5"	Х		SLAB @ PARAPET VERT.	
S509	Х	140	6'-8"	Х		PARAPET VERT.	
S510	Х	16	46'-2"			PARAPET HORIZ.	

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

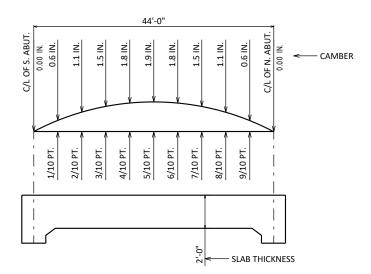


S505



S508

S509



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.

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 CAMBER

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

TOP OF SLAB FALSEWORK ELEVATION

TOP OF SLAB ELEVATIONS

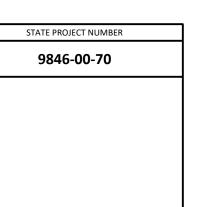
LOCATION	C/L S. ABUT.	⅓ ₁₀ PT.	²⁄₁₀ PT.	³⁄₁₀ PT.	⁴⁄ ₁₀ PT.	5∕ ₁₀ PT.	%₁0 PT.	7∕ ₁₀ PT.	8∕ ₁₀ PT.	%₁0 PT.	C/L N. ABUT.
W. EDGE OF SLAB	1552.52	1552.55	1552.58	1552.60	1552.61	1552.62	1552.61	1552.60	1552.58	1552.55	1552.52
W. FLOW LINE	1552.52	1552.55	1552.58	1552.60	1552.61	1552.62	1552.61	1552.60	1552.58	1552.55	1552.52
C/L COUNTY LINE RD	1552.76	1552.79	1552.82	1552.84	1552.85	1552.86	1552.85	1552.84	1552.82	1552.79	1552.76
E. FLOW LINE	1552.52	1552.55	1552.58	1552.60	1552.61	1552.62	1552.61	1552.60	1552.58	1552.55	1552.52
E. EDGE OF SLAB	1552.52	1552.55	1552.58	1552.60	1552.61	1552.62	1552.61	1552.60	1552.58	1552.55	1552.52

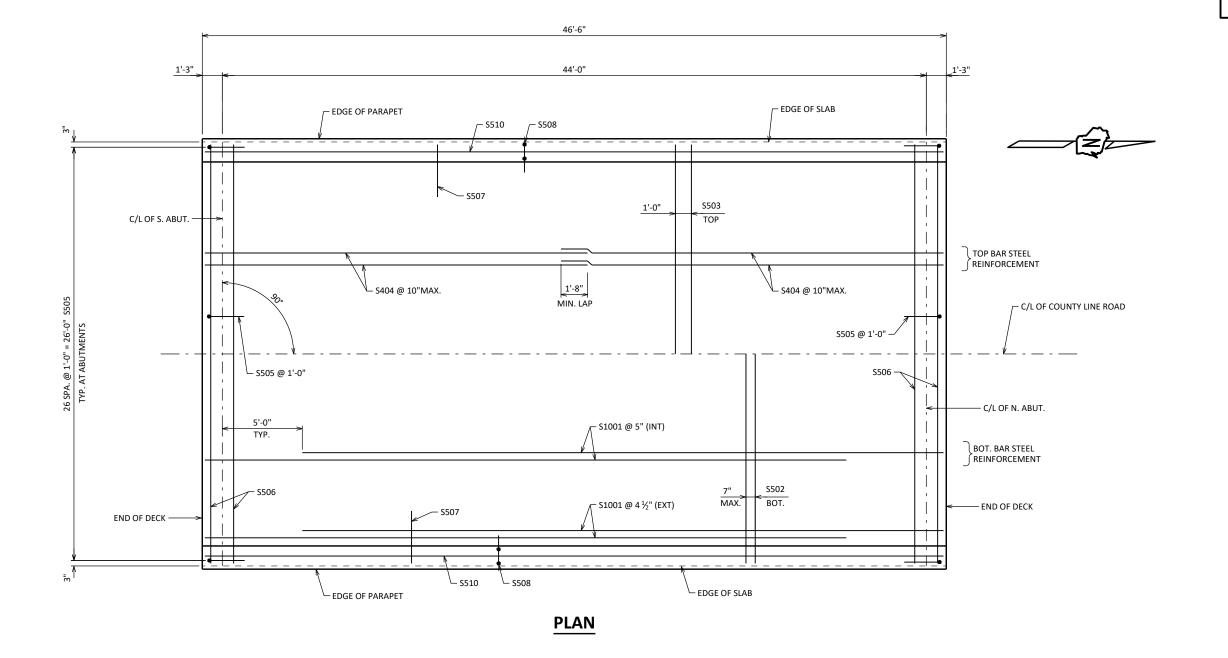
SURVEY TOP OF SLAB ELEVATIONS

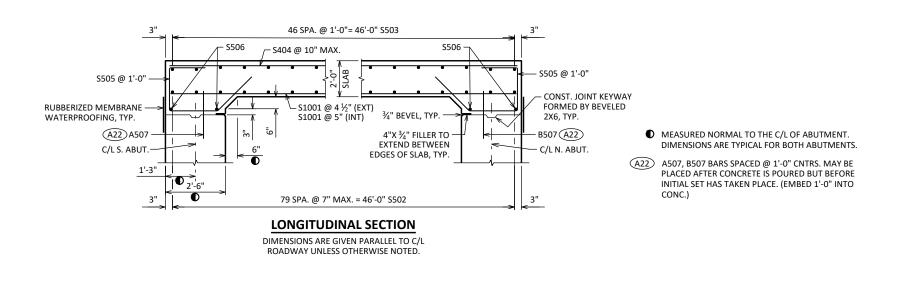
	ABUTMENT	<u>5/10 PT.</u>	ABUTMENT
W. EDGE OF SLAB			
C/L OF CTH W			
E. EDGE OF SLAB			

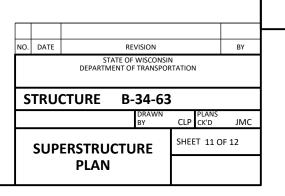
PRIOR TO RELEASING SLAB FORMWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS, AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND C/L.. RECORD ELEVATIONS IN THE TABLE ABOVE FOR THE "AS BUILT" PLANS.

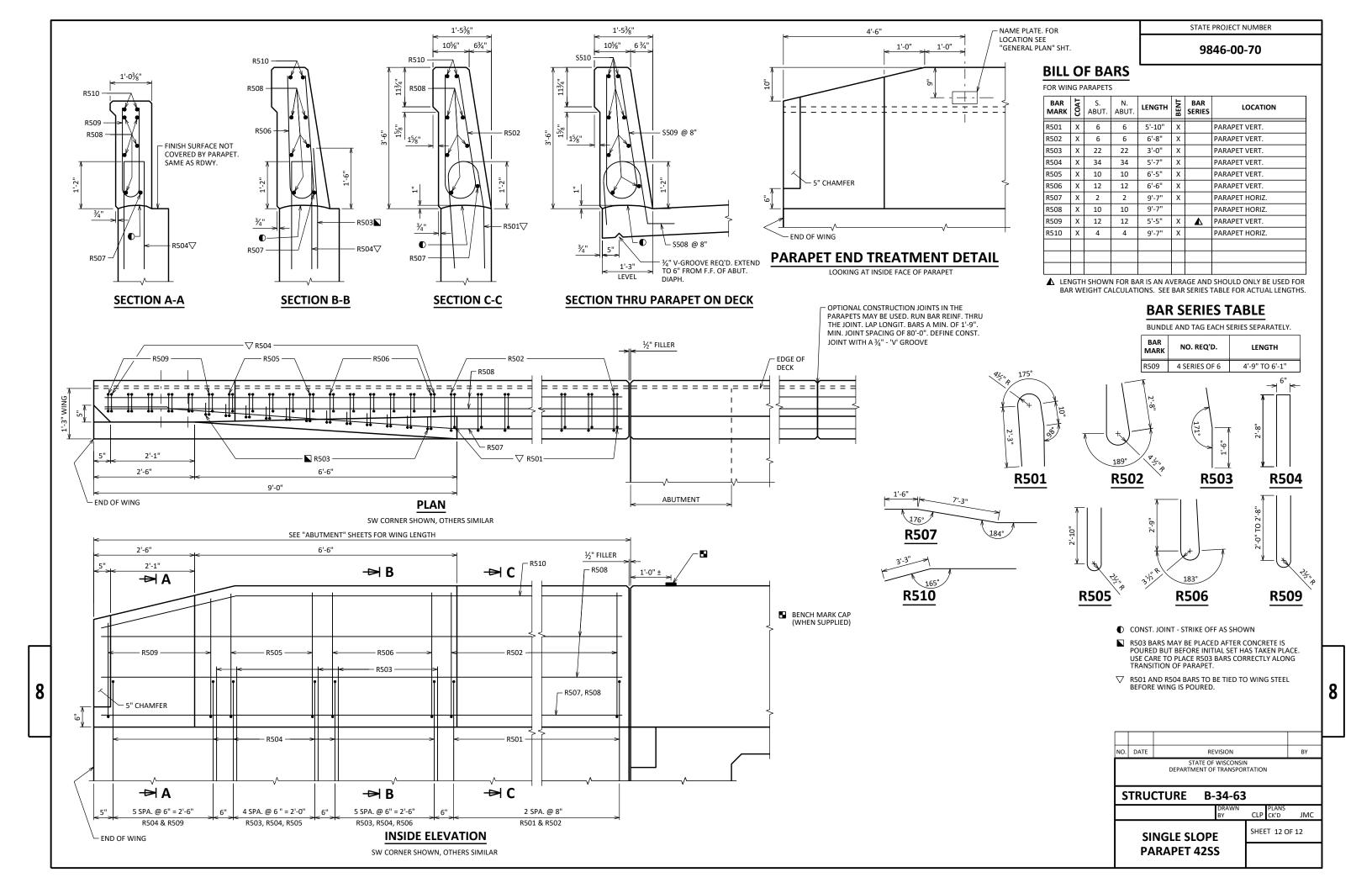
NO. DATE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-34-63 CLP CK'D SHEET 10 OF 12 **SUPERSTRUCTURE**











DIVISION - COUNTYLINEROAD									
	AREA	A (SF)	INCREMENTAL VOL (CY) (UNADJUSTED)			LATIVE VOL (CY)			
STATION			сит	FILL	CUT	EXPANDED FILL	MASS ORDINATE		
	CUT	FILL			1.00	1.30			
							NOTE 1		
9+33.00	19.74	0.00	0	0	0	0	0		
9+50.00	23.85	3.08	13	1	13	1	12		
9+67.00	25.21	2.99	15	2	28	4	24		
B-34-0063	0.00	0.00	0	0	28	4	24		
10+33.00	25.57	29.47	0	0	28	4	24		
10+50.00	26.15	25.16	16	17	44	26	18		
10+66.00	18.99	0.00	14	8	58	36	22		

58 28

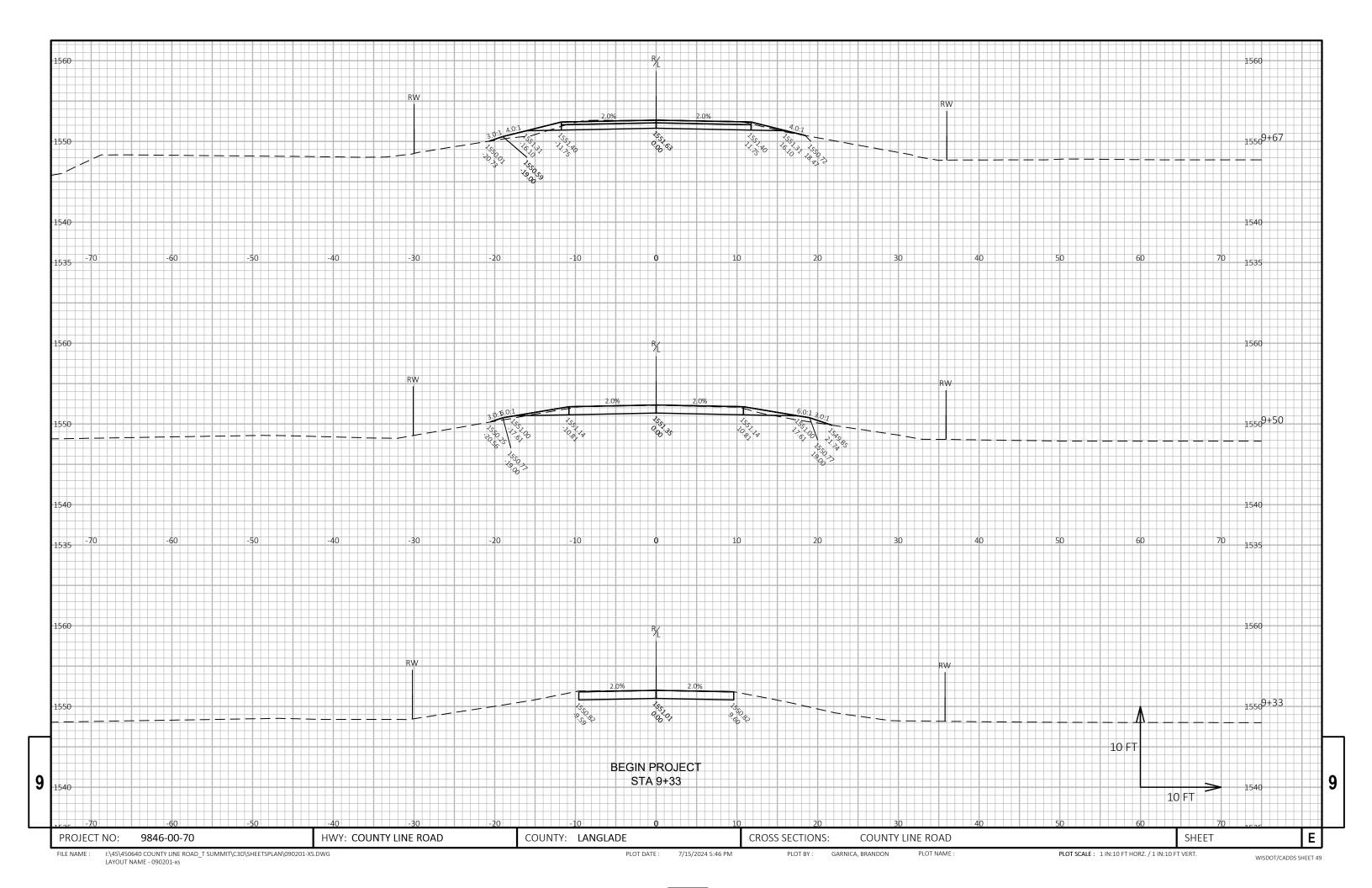
NOTES:

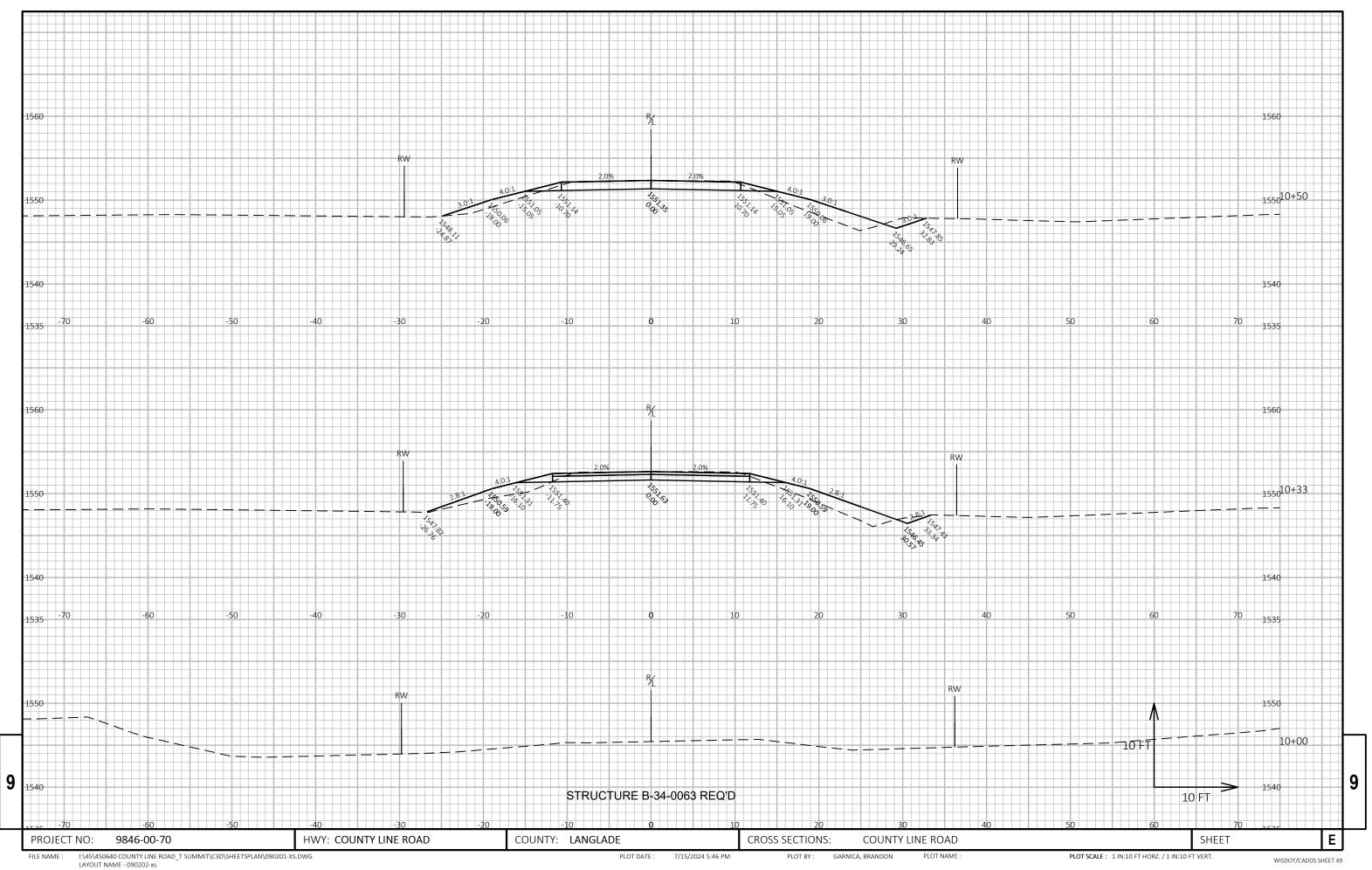
1 - MASS ORDINATE CUT - (FILL * FILL FACTOR)

9

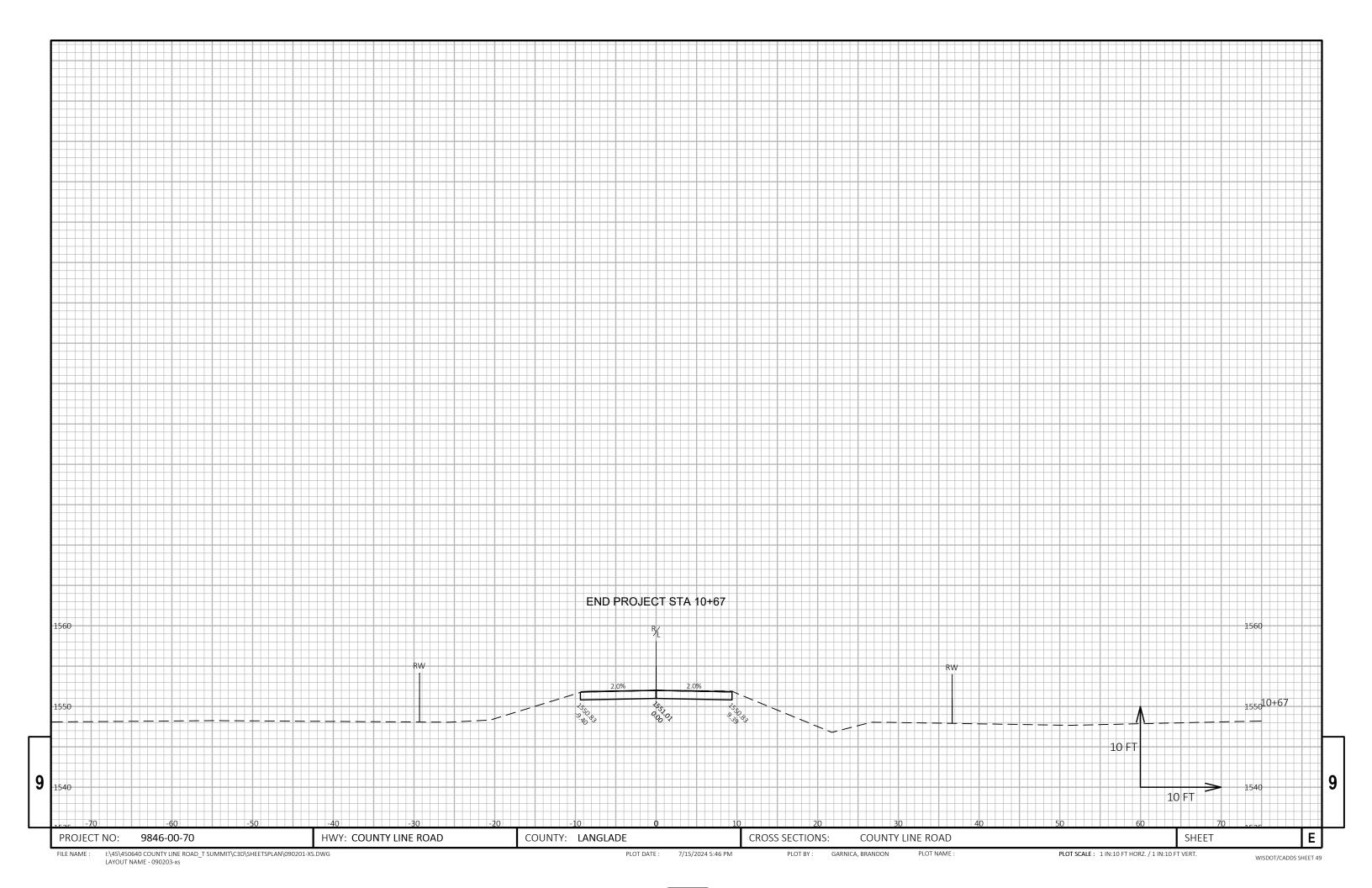
9

PROJECT NUMBER: 9846-00-70 HWY: COUNTY LINE ROAD COUNTY: LANGLADE COMPUTER EARTHWORK DATA SHEET NO: **E**





LAYOUT NAME - 090202-xs





Wisconsin Department of Transportation

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