GRE

PROJ WITH:

068-00-01

MARSH AREA

WOODED OR SHRUB AREA



2046

= 70

= 3.5

= 25 MPH

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

PLAN OF PROPOSED IMPROVEMENT

T HOW, PECORE ROAD

PECORE CREEK BRIDGE

LOC STR **OCONTO COUNTY**

> STATE PROJECT NUMBER 9068-00-01

R-16-E - R-17-E SANDY 31 T-30-N Wiscobee S **END PROJECT** STA 11+15 V Y = 223138.673 ELM RD STRUCTURE B-42-0137 Grignon PECORE RD GRIGHTON LN! **BEGIN PROJECT** M Hayes STA 8+60 Y = 223149.874 X = 460132.835 CLEAR IN Cr. STRAWBERR SPRING LN HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT WISC2026086 9068-00-01

> ACCEPTED FOR OCONTO COUNTY

ORIGINAL PLANS PREPARED BY

AYRES



DEPARTMENT OF TRANSPORTATION

REPARED BY

AYRES ERIK BRATTLUND

KIMBERLY SLEZAK

Ø

SCALE

1//////

GRADE LINE

SPECIAL DITCH

UTILITIES

ELECTRIC

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

STORM SEWER

TELEPHONE

WATER

GRADE ELEVATION

CULVERT (Profile View)

ORIGINAL GROUND

MARSH OR ROCK PROFILE (To be noted as such)

Typical Sections and Details Estimate of Quantities Miscellaneous Quantities

Plan and Profile Standard Detail Drawings

Structure Plans

Cross Sections

Computer Earthwork Data

PROJECT LOCATION

Sign Plates

TOTAL NET LENGTH OF CENTERLINE = 0.048 MI.

COORDINATE REFERENCE SYSTEM (WISCRS), OCONTO COUNTY, NAD83 (2011), IN U.S. SURVEY FEET, POSITIONS SHOWN ARE GRID

ARE THE SAME AS GROUND DISTANCES.

COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES

UTILITIES CONTACTS

OCONTO ELECTRIC COOP ELECTRIC

> SAMANTHA SALESKY 7479 RAE ROAD OCONTO, WI 54154

PHONE: 920-846-2816 EMAIL: SSALESKY@OCONTOELECTRIC.COM

LUMEN

COMMUNICATIONS KYLE SCHLAMPP 20 S WILSON AVE RICE LAKE, WI 54868 PHONE: 715-292-0082

EMAIL: KYLE.SCHLAMPP@LUMEN.COM

WISCONSIN DNR LIAISON

JIM DOPERALSKI CENTRAL REGION 2984 SHAWANO AVE GREEN BAY, WI 54313 PHONE: 920-412-0165

EMAIL: JAMES.DOPERALSKI@WISCONSIN.GOV

TOWN OF HOW

BILL BARTZ, JR. CHAIRMAN 14410 CEDAR LANE SURING, WI 54174 PHONE: 920-842-4584 EMAIL: TOWNOFHOW@YAHOO.COM

AYRES ASSOCIATES

KRISTOFER OLSON, PE STRUCTURAL ENGINEER 700 PILGRIM WAY, SUITE 180 GREEN BAY, WI 54304 PHONE: 920-498-1200 EMAIL: OLSONK@AYRESASSOCIATES.COM

WIS. DEPT OF TRANSPORTATION

ERIK BRATTLUND NORTHEAST REGION 944 VANDERPERREN WAY GREEN BAY, WI 54304 PHONE: 920-492-4144

EMAIL: ERIK.BRATTLUND@DOT.WI.GOV

COUNTY HIGHWAY COMMISSIONER

BRANDON HYTINEN OCONTO COUNTY 202 VAN DYKE STREET OCONTO, WI 54153 PHONE: 920-834-6886

EMAIL: BRANDON.HYTINEN@CO.OCONTO.WI.US

GENERAL NOTES

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

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

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.

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.

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

		HYDROLOGIC SOIL GROUP										
		А			В			С		D		
	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	(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
IVIEDIAN STRIPTURF:	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPETURF:			.25			.27			.28			.30
SIDE SLOPETURF:			.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					

HWY: PECORE ROAD

TOTAL PROJECT AREA = <u>0.386</u> ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.294 ACRES



GENERAL NOTES

I:\42\42-1393.00 - OCONTO CO. TN HOW. PECORE ROAD\C3D\SHEETS\020101-GN.DWG FILE NAME :

9068-00-01

PROJECT NO:

PLOT DATE:

COUNTY: OCONTO

10/16/2025 2:46 PM

PLOT BY: HOSPER, JAN PLOT NAME

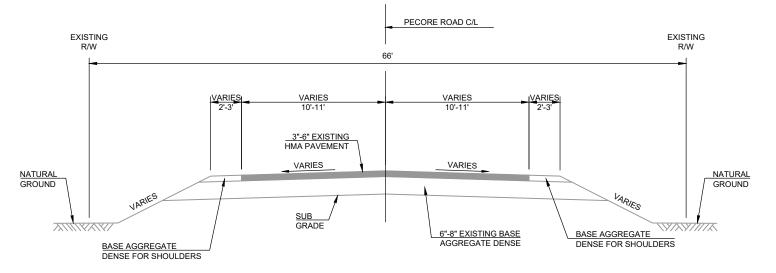
PLOT SCALE:

SHEET

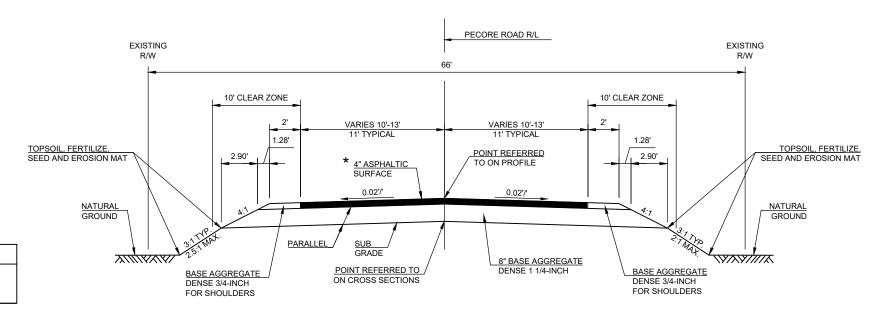
WISDOT/CADDS SHEET 42

Ε





EXISTING TYPICAL SECTION FOR PECORE ROAD STA. 8+60 - STA. 11+15

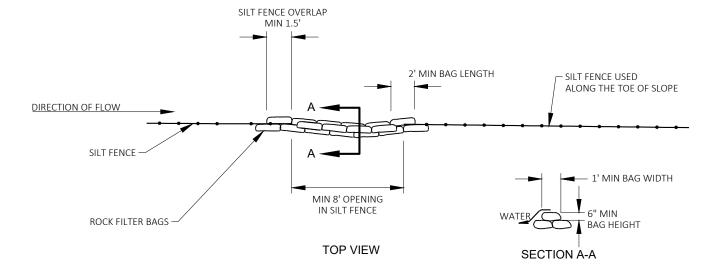


PAVEMENT LAYERS * 4" ASPHALTIC 1.75" UPPER LAYER SURFACE 2.25" LOWER LAYER

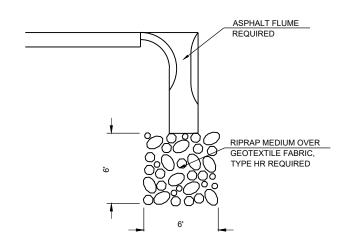
FINISHED TYPICAL SECTION FOR PECORE ROAD

STA. 8+60 - STA. 9+79.8 STA. 10+20.3 - STA. 11+15

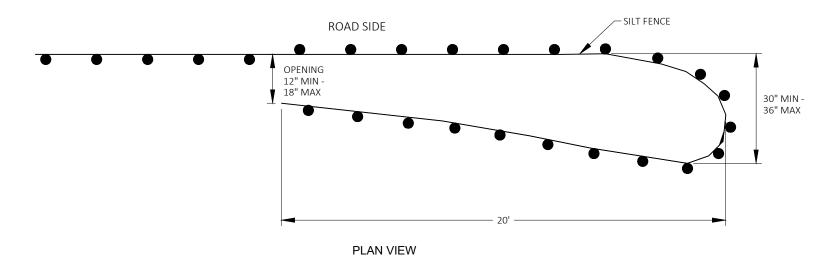
Ε PROJECT NO: 9068-00-01 HWY: PECORE ROAD COUNTY: OCONTO TYPICAL SECTIONS SHEET I:\42\42-1393.00 - OCONTO CO, TN HOW, PECORE ROAD\C3D\SHEETS\020301-TS.DWG HOSPER, JAN PLOT BY:



ROCK BAGS USED FOR SILT FENCE RELIEF



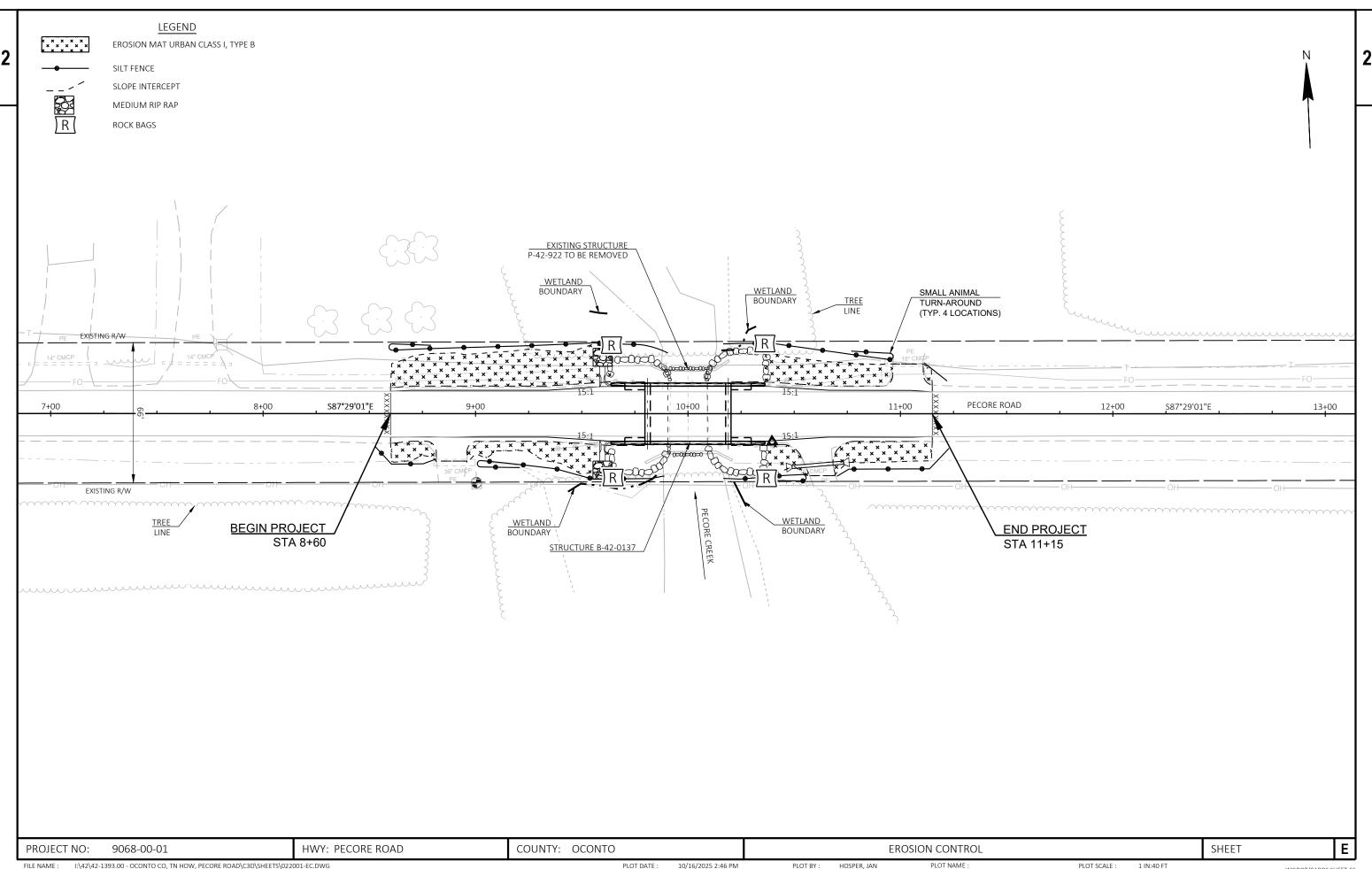
RIPRAP MEDIUM AT ASPHALT FLUME (SEE MISCELLANEOUS QUANTITIES FOR LOCATION)



TEMPORARY SMALL ANIMAL TURN-AROUND

GENERAL NOTES:
SILT FENCE POSTS FOR THE TURN-AROUND SHOULD BE ON THE OUTSIDE OF THE TURN-AROUND. AND TRENCHED IN ACCORDING TO SILT FENCE REQUIREMENTS.

Ε PROJECT NO: 9068-00-01 HWY: PECORE ROAD COUNTY: OCONTO CONSTRUCTION DETAILS SHEET I:\42\42-1393.00 - OCONTO CO, TN HOW, PECORE ROAD\C3D\SHEETS\021001-CD.DWG LAYOUT NAME - 021001-cd PLOT DATE : PLOT BY: HOSPER, JAN PLOT NAME : PLOT SCALE : FILE NAME : 10/16/2025 2:46 PM 1 IN:10 FT



I:\42\42-1393.00 - OCONTO CO, TN HOW, PECORE ROAD\C3D\SHEETS\022001-EC.DWG LAYOUT NAME - 022001-ec PLOT DATE : PLOT NAME : FILE NAME : 10/16/2025 2:46 PM HOSPER, JAN PLOT BY:

WISDOT/CADDS SHEET 42

3 |

9068-00-01	

						3000-00-01	
0004 20.00100 Removing Small Ripes Culterils EACH 1.000 1.000 0008 20.0016 Removing Sucrisidal Ripes Culterils I.F. 20.000 25.000 001 25.0010 Canadas Cunterils I.F. 20.000 25.000 001 25.0010 Canadas Cunterils I.F. 20.000 1.000 014 20.0010 Call Contents (Institution) (II. B42-0137) EACH 1.000 1.000 016 20.0010 Ballow (Institution) (II. B42-0137) EACH 1.000 1.000 017 20.0010 Ballow (Institution) (II. B42-0137) TON 40.000 40.000 018 20.1010 Ballow (Institution) (III. B42-0137) TON 40.000 40.000 019 Ballow (Institution) (III. B42-0137) TON 40.000 40.000 010 Ballow (III. B42-0137) TON 40.000 45.000 010 Ballow (III. B42-0137) TON 40.000 45.000 010 Ballow (III. B42-0137) TON 40.000	Line	Item	Item Description	Unit	Total	Qty	
0004 20.00100 Removing Small Ripes Culterils EACH 1.000 1.000 0008 20.0016 Removing Sucrisidal Ripes Culterils I.F. 20.000 25.000 001 25.0010 Canadas Cunterils I.F. 20.000 25.000 001 25.0010 Canadas Cunterils I.F. 20.000 1.000 014 20.0010 Call Contents (Institution) (II. B42-0137) EACH 1.000 1.000 016 20.0010 Ballow (Institution) (II. B42-0137) EACH 1.000 1.000 017 20.0010 Ballow (Institution) (II. B42-0137) TON 40.000 40.000 018 20.1010 Ballow (Institution) (III. B42-0137) TON 40.000 40.000 019 Ballow (Institution) (III. B42-0137) TON 40.000 40.000 010 Ballow (III. B42-0137) TON 40.000 45.000 010 Ballow (III. B42-0137) TON 40.000 45.000 010 Ballow (III. B42-0137) TON 40.000	0002	201.0205	Grubbing	STA	4.000	4.000	
0.000 2.000 / 20 / 20 / 20 / 20 / 20 / 20 / 20	0004		-	EACH	1.000	1.000	
0008 20 A 10 F 08 Removing Guadrail LF 25 500 25 500 001 20 51 00 Execusation Common CY 14 500 15 500 001 20 51 00 Execusation For Structures Pringing (encluricy 01, 8-42-0137) EACH 1,000 1,000 001 20 50 00 Contractions (enclusion in Figure 10, 100-000) Contraction (enclusion in Figure 10, 100-000) 3,000 3,000 002 20 50 00 Bernalman Standard (green) (1) 000-00-01 Final Figure 10, 100-000 3,000 3,000 002 30 50 10 Beach Aggregate Derma 14-linh TON 45 500 3,000 003 45 500 Beach Aggregate Derma 14-linh TON 45 500 3,000 004 45 500 Applaints Strate Applaints Strate Applaints Strate Applaints Strate Applaints Strate 005 45 500 Applaints Strate Ap				EACH	1.000	1.000	
0011 2 00.01 10 1 20.00 10 10 20.00 10 10 10 10 10 10 10 10 10 10 10 10 1	8000			LF	225.000	225.000	
014 205.001 Contracting Contracti	0010		=	CY	143.000	143.000	
916 bit 2015 bits 2016 bits 2015 bits 2015 bits 8 additi Strutter Itys A TON 40000 98,000 922 3 151101 Based Strutter Itys A TON 45,000 1,000 1,000 924 3 551101 Base Aggregatin Dense 114-Inch TON 45,000 1,000 924 4 551103 Ast Strutt Ast Strutt 1,000 bits 1,000 bits 1,000 bits 928 4 551103 Ast Strutt Ast Strutt Ast Strutt 1,000 bits 1,000 bits 928 4 551103 Ast Strutt Ast Strutt Ast Strutt Ast Strutt 1,000 bits 1,000 bits 928 4 50103 Ast Strutt Ast Strutt Ast Strutt Ast Strutt 1,000 bits 1,000 bits 928 4 50200 Ast Strutt Ast Strutt Ast Strutt 1,000 bits 1,000 bits 1,000 bits 938 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0012	206.1001	Excavation for Structures Bridges (structure) 01. B-42-0137	EACH	1.000	1.000	
0510 210.1500 Half-Birding Mackay (pringles) 0.508-60-01 FACH 1.000 052 3.50-1110 Binding Resolvey (pringles) 0.508-60-01 FACH 1.000 4.5000 052 3.50-110 Binas Aggregate Denies 341-Inch TON 4.5000 3.8000 052 4.50-1005 Ast-based Ast-based Ast-based 3.9000 050 4.50-1005 Ast-based Ast-based Ast-based 7.00 4.0000 050 4.50-1005 Ast-based Oncreas Mackary Singles CV 1.000 8.0000 050 4.50-1005 Concreas Mackary Singles CV 1.000 8.0000 050 402-201 Polymerical Surface Sealers SY 1.000 1.2000 050 4	0014	206.5001	Cofferdams (structure) 01. B-42-0137	EACH	1.000	1.000	
9002 28-150100 Base Aggregate Deane 34-inch TON 45.000 0024 305.0120 Base Aggregate Deane 34-inch TON 45.000 0024 305.0120 Base Aggregate Deane 34-inch TON 45.000 0028 456.0105 Track Coat Explaints Gurland TON 150.000 75.000 0028 456.0105 Apphalite Gurland SV 85.000 85.000 0029 950.2010 Concrise Miseonry Bridge SV 85.000 85.000 0038 950.2010 Concrise Miseonry Bridge SV 85.000 75.000 0038 950.2010 Concrise Miseonry Bridge SV 75.000 75.000 0039 950.000 See Steel Reinfronment HS Stutures LB 3 98.000 75.000 0040 950.000 Sat Steel Reinfronment HS Scutures LB 3 98.000 75.000 0041 950.000 Sat Steel Reinfronment HS Scutures LB 3 98.000 22.000 0042 951.000 Sat Steel Reinfronment HS Scutures L	0016	208.0100	Borrow	CY	59.000	59.000	
0024 305.0110 Base Aggregate Demse 14-Inch TON 45.000 45.000 0074 455.0005 Base Aggregate Demse 11-Inch TON 380.000 150.000 0078 455.0005 Apphaltic Dumes SV 8.00 150.000 0079 455.0015 Apphaltic Dumes SV 180.000 150.000 0074 502.2010 Pometice Surface Treatment SV 180.000 120.000 0078 502.2010 Pometice Surface Sealer SV 75.000 120.000 0078 502.2010 Pometice Surface Sealer SV 75.000 120.000 008 502.2010 Pometice Surface Sealer SV 75.000 75.000 008 502.2010 Sealer Sealer Sealer Comment HS Struturas LB 2.900.00 30.000 0042 516.000 Sealer Sealer Sealer Comment HS Struturas LB 2.900.00 15.000 0042 516.000 Apost Envision Sealer SV 18.000 15.000 0042 516.000	0018	210.1500	Backfill Structure Type A	TON	400.000	400.000	
024 305 012 Sae Aguregate Dense 1 14-Inch TON 380 000 380 000 025 450 015 Tack Centre Misson's Bridges TON 130 000 130 000 032 450 015 Asphallic Staface TON 130 000 180 000 032 502 010 Concrete Misson's Bridges CY 186 000 180 000 033 503 200 Protective Variabre Troutment SY 75 000 75 000 036 502 201 Protective Variabre Troutment B 2 100 000 22 100 000 040 55 5000 Bar Steel Reinforcement HS Costed Structures LB 2 100 000 2 100 000 0404 51 1018 Applied Difference HS Structures LB 2 100 000 2 100 00 0444 51 1018 Applied Difference HS Structures LB 2 100 000 2 100 00 0445 52 131 Outer Pipe Steel Stein Structures LB 2 100 00 2 100 00 0445 52 131 Outer Pipe Steel Stein Structures LB 2 100 00 2 100 00	0020	213.0100	Finishing Roadway (project) 01. 9068-00-01	EACH	1.000	1.000	
0202 455.005 Tack Cast CAL 40.000 40.000 280.105 Asphaltic Flumes TN 130.000 0302 620.10 Control Control Manusory Britigues CY 180.00 0303 620.210 Control Valuations are all standards as a part of the process of the proces	0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	45.000	45.000	
0008 465 0105 Asphaline Surface TON 1 30 000 1 30 000 005 465 0105 Asphaline Flumes SY 8.00 8.00 003 502 010 Concrete Masonry Bildiges CY 1 86 000 180 000 003 502 320 Prolective Masonry Bildiges SY 7 500 7 500 003 502 320 Prolective Ministerment HS Stuctures LB 2 30 000 3 50 000 004 505 000 Bar Steel Reinforcement HS Stuctures LB 2 2,100,000 18 000 004 52 110 Rubbricate Minister Culture Plips Steel Hs Inch EACH 2 000 18 000 004 52 110 Rubbricate Minister Culture Plips Steel Hs Inch LF 2 400 2 4000 004 55 210 Ripag Culture Plips Steel Hs Inch LF 1 540 000 1 540 000 005 660 20 Ripag Culture Plips Steel Hs Inch LF 1 540 000 1 550 000 006 650 210 Ripag Culture Plips Steel Hs Inch LF 1 4000 1 550 000	0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	380.000	380.000	
0303 485.015 Asphalte Flumes SY 8.000 18.000 032 50.200 Contecke Surface Treatment SY 120.000 120.000 034 50.2301 Pignetic Surface Treatment SY 120.000 75.000 038 50.2401 Pignetic Surface Scaler SY 120.000 75.000 038 50.5401 Pignetic Surface Scaler B 2,90.000 22.100.000 034 50.5001 Bristel Reinforcement HS Structures B 2,90.000 2.100.000 0404 51.018 Authorized Membrane Waterprofling SY 18.000 2.000 0404 52.1318 Culvert Pipe Corrugated Steel 18-Inch EA 24.000 2.4000 0404 52.1318 Culvert Pipe Corrugated Steel 18-Inch EA 24.000 1.540.000 0504 62.0101 Pignetic Markel For Culvert 19.04 X 25-Inch EF 18.000 3.000 0505 62.0102 Pignetic Markel For Culvert 19.04 X 25-Inch EY 180.000 150.000 05	0026	455.0605	Tack Coat	GAL	40.000	40.000	
0034 502 0/100 Concrete Masonry Bridges CY 186 000 34 502 300 Protective Surface Treatment SY 75 000 75 000 038 502 3210 Pigmented Surface Sealer SY 75 000 25 000 034 505 000 Bar Steel Reinforcement HS Conted Structures LB 2 100 000 28 000 044 505 000 Radio Reinforcement HS Conted Structures LB 2 2 100 000 28 000 044 505 000 Radio Reinforcement HS Conted Structures LB 2 2 100 000 28 000 044 521 1018 Apone Endwalls for Culter Ptps Steel 18-thch EA 2 000 2 400 044 521 1018 Culter Epic Congress 18 18-thch LF 1 50,000 2 000 048 550 2101 Riper Defedient CY 4 000 4 000 052 98 0202 Riper Medium CY 4 000 4 000 058 19 1000 Riper Linders Aller Structures LF 4 000 4 000 058 19 1200	0028	465.0105	Asphaltic Surface	TON	130.000	130.000	
03034 502.0100 Concrete Masonry Bridges CY 186.000 186.000 34 502.310 Protective Surface Feathers SY 75.000 75.000 038 502.3210 Protective Burface Sealer SY 75.000 75.000 040 505.000 Bar Steel Reinfrorcement HS Structures LB 2.100.000 18.000 0404 505.000 Rush Steel Reinfrorcement HS Structures LB 2.100.000 18.000 044 521.1018 Agrone Endwalls for Culture! Pipe Steel Hanch EA 2.000 2.000 044 521.1018 Culture! Pipe Computed Steel Steinhor LF 1.500.000 1.500.000 1.500.000 048 552.104 Pilling CIP Computed Steel Steinhor LF 1.500.000	0030	465.0315	Asphaltic Flumes	SY	8.000	8.000	
033 50.2 del Na Sac Reinforcement HS Stuctures SP 75.000 75.000 034 50.5 dollo Bar Sisee Reinforcement HS Stuctures LB 2.7 100.000 22.100.000 040 50.5 dollo Russee Reinforcement HS Stuctures LB 2.7 100.000 22.100.000 042 51.0 dollo Russee Reinforcement HS Coated Structures SY 18.000 18.000 044 521.1018 Agree Endwalls for Culvert Pipe Steel 19-Inch ER 2.000 2.000 044 521.1018 Charle Pipe Corrugated Steel Ha-Inch LF 15.40.000 15.40.000 048 552.104 Piling CIP Concretal 03.4 X 0.25-Inch LF 15.40.000 15.40.000 0582 805.001 Riprap Medium CY 4.000 4.000 0582 805.002 Riprap Medium CY 4.000 4.000 0583 619.1000 Pipe Underdrain Wrapped 6-Inch LF 140.000 100.000 0680 619.1000 Value MGAL 11.000 10.000 070 7.0000 Sill Frace Maintenance LF 40.000 80.0000 071 62.0	0032		Concrete Masonry Bridges	CY	186.000	186.000	
0038 50.5400 Bar Seet Reinforcement HS Structures LB 3,980.000 3,980.000 004 56.0500 Rubberlzad Membrane Waterproding SY 18.000 2,000 0042 51.6500 Rubberlzad Membrane Waterproding EACH 2000 2,000 046 521.118 Collvert Pipe Corrugated Steel 18-Inch EACH 2,400 2,000 050 150.118 Applia Light CY 4,000 1,500 0 050 160.010 Rijnga Light CY 4,000 4,000 0 050 160.010 Rijnga Light CY 4,000 4,000 0 050 160.020 Rijnga Medium CY 4,000 4,000 0 050 160.020 Rijnga Medium CY 4,000 4,000 0 050 160.020 Rijnga Light CY 4,000 4,000 0 050 160.020 Rijnga Light CY 4,000 4,000 0 050	0034	502.3200	Protective Surface Treatment	SY	120.000	120.000	
003 Bot 50,000 Bar Steel Reinforcement HS Structures LB 2,910,000 22,100,000 004 50,500 Bar Steel Reinforcement HS Coated Structures LB 22,100,000 22,100,000 004 51,105 Bot 50,000 Bar Steel Reinforcement HS Coated Structures BA 2,100 Bot 50,000 18,000 004 52,11 Bar Steel Reinforcement HS Posteel Ha-Inch EACH 2,000 2,000 004 52,11 Bar Steel Reinforcement HS Posteel Ha-Inch LF 1,540,000 1,540,000 005 60,100 Bar Steel Reinforcement HS Posteel Ha-Inch LF 1,540,000 1,540,000 005 60,100 Bar Steel Reinforcement HS Posteel Ha-Inch LF 1,540,000 1,540,000 005 60,100 Bar Steel Reinforcement HS Posteel Ha-Inch LF 1,540,000 1,540,000 005 60,100 Bar Steel Reinforcement HS Posteel Ha-Inch LF 1,540,000 1,540,000 005 60,100 Bar Steel Reinforcement HS Posteel Ha-Inch LF 1,540,000 1,540,000 005 60,100 Bar Steel Reinforcement HS Posteel Ha-Inch LF 1,400,000 1,500,000 005 60 Gill Bar Steel Reinforcement HS Posteel Ha-Inch LF 1,400,000 1,500,000 006 60 Gill Bar Steel Reinforcement HS Posteel Ha-Inch LF 1,400,000 1,500,000 006 60 Gill Bar Steel Reinforcement HS Posteel Ha-Inch LF 1,400,000	0036	502.3210	Pigmented Surface Sealer	SY	75.000	75.000	
0.042 516.0500 Rubbertzed Membrane Waterproofing SY 18.000 19.000 0.44 521.118 Apone Endwalls for Culvert Pipe Steel 18-Inch EACH 2.000 2.000 0.046 521.3118 Culvert Pipe Corrugated Steel 18-Inch LF 2.4000 2.4000 0.050 605.010 Riprace Light CY 3.0000 3.0000 0.052 606.0200 Riprap Medium CY 4.000 4.000 0.054 606.0200 Riprap Medium CY 4.000 160.000 0.056 612.0408 Pipe Underdrain Wapped 6-Inch LF 1.000 140.000 0.058 612.0408 Pipe Underdrain Wapped 6-Inch LF 1.000 10.000 0.060 624.0100 Water MGAL 1.000 10.000 0.062 625.0101 Topsail MGAL 1.000 10.000 0.066 628.1520 Silf Fence Maintenance LF 6.00000 600.000 0.066 628.1520 Silf Fence Maintenance	0038		Bar Steel Reinforcement HS Structures	LB	3,980.000	3,980.000	
0442 516,0500 Rubbertzed Membrane Waterproofing SY 18,000 180,000 044 521,118 Azon Endwalls for Culvert Pipe Steel 18-Inch EAH 2,000 2,000 046 521,3118 Culvert Pipe Corrugated Steel 18-Inch LF 24,000 24,000 050 606,100 Rizpa Light CY 30,000 30,000 052 606,020 Rizpa Medium CY 4,000 4,000 054 606,030 Rizpa Heavy CY 4,000 160,000 056 612,046 Pipe Underdrain Wrapped 6-Inch LF 14,000 160,000 056 612,046 Pipe Underdrain Wrapped 6-Inch LF 1,000 1,000 056 612,046 Pipe Underdrain Wrapped 6-Inch LF 1,000 1,000 066 628,1562 Silf Fence Maintenance LF 600,000 600,000 067 628,1504 Silf Fence Maintenance LF 1,200,000 600,000 067 628,1504 Silf Fence Maintenance			Bar Steel Reinforcement HS Coated Structures		22,100.000		
046 521.3118 Culvert Pipe Corrugated Sleel I3-Inch LF 24.000 24.000 048 552.14 Pling CIP Concrete 10 3/4 X 0.25-Inch LF 1,840.000 1,540.000 050 606.100 Riprap Light CY 30.000 30.000 052 606.020 Riprap Medium CY 160.000 160.000 056 612.0406 Pipe Underfrait Wrapped 6-Inch LF 140.000 140.000 056 612.0406 Pipe Underfrait Wrapped 6-Inch LF 140.000 10.000 066 612.0400 Valer MGAL 10.000 10.000 066 624.0100 Water MGAL 10.000 15.000 066 625.1501 Silf Fence LF 600.000 450.000 066 628.1520 Silf Fence Maintenance LF 600.000 1.000 070 628.1520 Silf Fence Maintenance LF 4.000 5.000 070 628.1520 Mobilizations Eresin Controll EACH 5	0042	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000	
0.048 55.0.2104 Piling CilP Concrete 10 3/4 X 0.25-inch LF 1,540.000 .30.000 0.05 606.0200 Riprap Light CY 4.000 4.000 0.05 606.0200 Riprap Medium CY 4.000 160.000 0.05 606.0200 Riprap Heavy CY 160.000 160.000 0.05 619.1000 Mobilization Wappel 6-Inch ER 1.000 1.000 0.05 619.1000 Mobilization Wappel 6-Inch ERCH 1.000 1.000 0.05 625.0100 Topsoil Mare MGAL 1.000 1.000 0.06 625.0100 Topsoil SY 450.000 450.000 0.06 625.100 Silt Fence LF 600.000 600.000 0.06 625.100 Mobilizations Emergency Erosion Control EACH 5.000 5.000 0.07 628.100 Mobilizations Emergency Erosion Control EACH 5.000 5.000 0.07 628.200 Fosion Mat Urban Class I Type B	0044	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	2.000	2.000	
0050 606 0100 Rlprap Light CY 30.000 30.000 0052 606 0200 Riprap Medium CY 4.000 4.000 0054 606 0300 Riprap Heavy CY 160.000 160.000 0056 612 0406 Pipe Underdrain Wrapped 6-Inch LF 140.000 140.000 0060 624 0100 Water MGAL 10.000 10.000 0061 628 1000 Topsail Silf Fence LF 80.000 600.000 0064 628 1504 Silf Fence Maintenance LF 80.000 600.000 0070 628 1910 Mobilizations Erosin Control EACH 3.000 3.000 0070 628 1910 Mobilizations Erosin Control EACH 3.000 3.000 0070 628 1910 Mobilizations Erosin Control EACH 75.000 75.000 0074 628 7570 Rock Bags EACH 75.000 75.000 075 628 2010 Felicular Type B EACH 4.000	0046	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	24.000	24.000	
0052 606.0200 Riprap Medium CY 4.000 4.000 054 606.0300 Riprap Heavy CY 4.000 140.000 055 612.0400 Pipe Underdrain Wrapped 6-Inch LF 140.000 1.000 058 619.1000 Mobilization EACH 1.000 1.000 060 62.0100 Topsoil SY 450.000 450.000 064 628.1504 Silt Fence LF 600.00 600.000 066 628.1502 Silt Fence Maintenance LF 600.000 600.000 068 628.1503 Mobilizations Errosino Control EACH 5.000 5.000 070 628.1705 Mobilizations Errosino Control EACH 5.000 5.000 0704 628.2018 Fosion Mat Urban Class I Type B SY 450.000 450.000 0704 628.7570 Rock Bags CWT 1.000 1.000 0707 628.1010 Seding Miture No. 20 LB 5.000 5.000	0048	550.2104	Piling CIP Concrete 10 3/4 X 0.25-Inch	LF	1,540.000	1,540.000	
0054 60 6300 Riprap Heavy CY 160.000 160.000 0056 612.0406 Pipe Underdrain Wrapped 6-Inch LF 140.000 140.000 0058 619.000 Mobilizations EACH 1.000 1.000 0060 624.0100 Vater MSAL 10.000 10.000 0062 625.100 Topsoil SV 450.000 450.000 0064 628.1524 Silt Fence LF 600.000 600.000 0068 628.1525 Silt Fence Maintenance LF 600.000 5.000 0070 628.1901 Mobilizations Emergency Erosion Control EACH 5.000 5.000 0071 628.1910 Mobilizations Emergency Erosion Control EACH 5.000 5.000 0072 628.2010 Mobilizations Emergency Erosion Control EACH 75.000 75.000 0073 628.2010 Folk Urban Class Type B CWT 1.000 1.000 0074 628.707 Rock Bags EACH 75.000 75.000 0078 630.012 Seedlivitar No.20 LB 5.000 10.000	0050	606.0100	Riprap Light	CY	30.000	30.000	
0058 612,0408 Pipe Underdrain Wrapped 6-Inch LF 140,000 0058 619,1000 Mobilization EACH 1,000 1,000 0060 624,0100 Water MGAL 10,000 10,000 0062 625,0100 Topsoil SY 450,000 450,000 0064 628,1520 Silf Fence Maintenance LF 600,000 1,200,000 0068 628,1920 Mobilizations Erosion Control EACH 5,000 5,000 0070 628,1910 Mobilizations Emergency Erosion Control EACH 3,000 3,000 0074 628,208 Erosion Mat Urban Class I Type B SY 450,000 450,000 0074 628,757 Rock Bags CACH 75,000 75,000 0074 629,010 Fertilizer Type B CWT 1,000 1,000 0078 630,012 Seeding Mixture No.20 LB 5,000 5,000 0080 630,012 Seeding Mixture No.20 EACH 7,000 1,00	0052	606.0200	Riprap Medium	CY	4.000	4.000	
008 619.1000 Mobilization EACH 1.000 1.000 0080 624.0100 Water MGAL 1.000 10.000 0062 625.0100 Topsoil SY 450.000 450.000 0064 628.1504 SIII Fence LF 600.000 600.000 0068 628.1520 Silt Fence Maintenance LF 1,000.000 5,000 0070 628.1510 Mobilizations Errosino Control EACH 5,000 5,000 0071 628.1910 Mobilizations Errosino Control EACH 3,000 3,000 0072 628.2008 Erosino Mat Urban Class I Type B EACH 75,000 450,000 0074 628.7570 Rock Bags EACH 75,000 75,000 0076 639.0210 Fertilizer Type B CWT 1,000 1,000 0081 630.020 Seeding Mixture No. 20 LB 5,000 1,000 0082 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 4,000 <td< td=""><td>0054</td><td>606.0300</td><td>Riprap Heavy</td><td>CY</td><td>160.000</td><td>160.000</td><td></td></td<>	0054	606.0300	Riprap Heavy	CY	160.000	160.000	
058 619.1000 Mobilization EACH 1.000 1.000 060 624.0100 Water MGAL 10.000 10.000 062 625.0100 Topsoil SY 450.000 450.000 064 628.1504 SIlf Fence LF 600.000 600.000 068 628.1520 Silf Fence Maintenance LF 600.000 5.000 067 628.1910 Mobilizations Eresion Control EACH 5.000 5.000 070 628.1910 Mobilizations Erreigency Erosion Control EACH 3.000 3.000 070 628.2018 Erosion Mat Urban Class I Type B EACH 75.000 450.000 070 628.2018 Fetilizer Type B CWT 1.000 1.000 071 629.0210 Fetilizer Type B MGAL 10.000 1.000 078 630.0120 Seeding Mixture No. 20 LB 5.00 1.000 078 630.0120 Seeding Mixture No. 20 EACH 4.000 4.			· · · ·				
0060 624.0100 Water MGAL 10.000 10.000 0062 625.0100 Topsoil SY 450.000 450.000 0064 628.1520 Silt Fence Maintenance LF 1,200.000 1,200.000 0068 628.1520 Silt Fence Maintenance EACH 5.000 5.000 0070 628.1910 Mobilizations Errosion Control EACH 5.000 5.000 0072 628.2008 Erosion Mat Urban Class I Type B SY 450.000 450.000 0074 628.757 Rock Bags EACH 75.000 75.000 0076 629.010 Fertilizer Type B CWH 1,000 1.000 0078 630.0120 Seeding Mixture No. 20 LB 5.000 5.000 0081 630.0500 Seed Water MGAL 10.000 10.000 0082 634.0612 Posts Wood Axê-Inch X 12-FT EACH 2.000 2.000 0088 633.2002 Removing Small Sign Supports EACH 2.000	0058			EACH	1.000		
0062 625.100 Topsoil SY 450.000 450.000 0064 628.1542 Silf Fence Maintenance LF 600.000 600.000 0068 628.1905 Mobilizations Erosion Control EACH 5.000 5.000 0070 628.1910 Mobilizations Emergency Erosion Control EACH 3.000 3.000 0072 628.2008 Erosion Mat Urban Class I Type B SY 450.000 450.000 0074 628.7570 Rock Bags EACH 75.000 75.000 0076 629.0210 Fertilizer Type B CWT 1.000 1.000 0078 630.0120 Seeding Mixture No. 20 LB 5.000 5.000 0078 630.0120 Seed Water MGAL 10.000 10.000 0081 630.0120 Seed Water EACH 4.000 4.000 0084 637.2230 Signs Type II Reflective F EACH 2.000 2.000 0085 638.2602 Removing Signs Supports EACH			Water	MGAL			
0064 628.1504 Silt Fence Maintenance LF 600.000 600.000 0068 628.1502 Silt Fence Maintenance LF 1,200.000 1,200.000 0076 628.1905 Mobilizations Erosion Control EACH 5.000 3.000 0070 628.1910 Mobilizations Emergency Erosion Control EACH 3.000 3.000 0072 628.2008 Erosion Mat Urban Class I Type B SY 450.000 450.000 0074 628.7570 Rock Bags CWT 1.000 1.000 0076 629.0210 Fertilizer Type B CWT 1.000 1.000 0078 630.0120 Seed Water MGAL 1.000 10.000 0080 630.0500 Seed Water EACH 4.000 4.000 0081 637.2230 Signs Type II Reflective F SF 12.000 12.000 0084 638.2602 Removing Signs Type II EACH 2.000 2.000 0085 643.000 Field Office Type B EACH				SY			
0066 628.1520 Silt Fence Maintenance LF 1,200.000 1,200.000 0088 628.1910 Mobilizations Erosion Control EACH 5.000 5.000 0070 628.2018 Erosion Mat Urban Class I Type B SY 450.000 450.000 0074 628.2020 Erosion Mat Urban Class I Type B CWT 1.000 1.000 0076 629.0210 Fertilizer Type B CWT 1.000 1.000 0078 630.0120 Seeding Mixture No. 20 LB 5.000 5.000 0080 630.0500 Seed Water MGAL 10.000 10.000 0081 637.2230 Signs Type II Reflective F EACH 4.000 4.000 0084 633.2002 Removing Small Sign Supports EACH 2.000 2.000 0085 643.0012 Field Control Barricades Type III EACH 1,000 1,000 0086 643.0020 Traffic Control Warning Lights Type A EACH 1,000 1,000 0094 643.0020 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
0068 628.1905 Mobilizations Erosion Control EACH 5.000 5.000 0070 628.1910 Mobilizations Emergency Erosion Control EACH 3.000 3.000 0072 628.2008 Erosion Mat Urban Class I Type B SY 450.000 450.000 0074 628.757 Rock Bags EACH 75.000 75.000 0076 629.0210 Fertilizer Type B CWT 1.000 1.000 0078 630.0120 Seeding Mixture No. 20 LB 5.000 5.000 0080 630.0500 Seed Water MGAL 10.000 10.000 0081 637.2230 Signs Type II Reflective F FA 1.2000 12.000 0084 637.2230 Removing Signs Type II EACH 2.000 2.000 0085 638.2602 Removing Small Sign Supports EACH 1.000 1.000 0094 643.0420 Field Office Type B EACH 1.000 1.000 0095 643.0420 Traffic Control Barricades Type III </td <td></td> <td></td> <td>Silt Fence Maintenance</td> <td>LF</td> <td></td> <td></td> <td></td>			Silt Fence Maintenance	LF			
0072 628.2088 Erosion Mat Urban Class I Type B SY 450.000 450.000 0074 628.7570 Rock Bags EACH 75.000 75.000 0076 629.0210 Fertilizer Type B CWT 1.000 1.000 0078 630.0120 Seeding Mixture No. 20 LB 5.000 5.000 0080 630.0500 Seed Water MGAL 10.000 10.000 0082 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 4.000 4.000 0084 637.2230 Signs Type II Reflective F SF 12.000 12.000 0086 638.2602 Removing Signs Type II EACH 2.000 2.000 0089 642.5001 Field Office Type B EACH 1.000 1.000 0090 642.5001 Field Office Type B EACH 1.000 1.000 0091 643.0400 Traffic Control Barricades Type III DAY 1,704.000 1,704.000 0094 643.0705 Traffic Control Warning Lights Type A	0068	628.1905	Mobilizations Erosion Control	EACH			
0072 628.2088 Erosion Mat Urban Class I Type B SY 450.000 450.000 0074 628.7570 Rock Bags EACH 75.000 75.000 0076 629.0210 Fertilizer Type B CWT 1.000 1.000 0078 630.0120 Seeding Mixture No. 20 LB 5.000 5.000 0080 630.0500 Seed Water MGAL 10.000 10.000 0082 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 4.000 4.000 0084 637.2230 Signs Type II Reflective F SF 12.000 12.000 0086 638.2602 Removing Signs Type II EACH 2.000 2.000 0089 642.5001 Field Office Type B EACH 1.000 1.000 0090 642.5001 Field Office Type B EACH 1.000 1.000 0091 643.0400 Traffic Control Barricades Type III DAY 1,704.000 1,704.000 0094 643.0705 Traffic Control Warning Lights Type A	0070	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0076 629.0210 Fertilizer Type B CWT 1.000 1.000 0078 630.0120 Seeding Mixture No. 20 LB 5.000 5.000 0080 630.0500 Seed Water MGAL 10.000 10.000 0082 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 4.000 4.000 0084 637.2230 Signs Type II Reflective F SF 12.000 12.000 0086 638.2602 Removing Signs Type II EACH 2.000 2.000 0087 642.5001 Field Office Type B EACH 1.000 1.000 0090 642.5001 Field Office Type B EACH 1.000 1.000 0091 643.0420 Traffic Control Barricades Type III DAY 1,42.000 1,420.000 0092 643.0420 Traffic Control Warning Lights Type A DAY 1,704.000 1,704.000 0093 643.0900 Traffic Control Signs DAY 1,704.000 1,704.000 0096 643.0900 Traffic Control Si							
0078 630.0120 Seeding Mixture No. 20 LB 5.000 5.000 0080 630.0500 Seed Water MGAL 10.000 10.000 0082 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 4.000 4.000 0084 637.2230 Signs Type II Reflective F SF 12.000 12.000 0086 638.2602 Removing Signs Type II EACH 2.000 2.000 0088 638.3000 Removing Small Sign Supports EACH 2.000 2.000 0090 642.5001 Field Office Type B EACH 1.000 1.000 0092 643.0420 Traffic Control Barricades Type III DAY 1,420.000 1,704.000 0094 643.0705 Traffic Control Warning Lights Type A DAY 1,704.000 1,704.000 0096 643.0900 Traffic Control Signs DAY 923.000 923.000	0074	628.7570	Rock Bags	EACH	75.000	75.000	
0080 630.0500 Seed Water MGAL 10.000 10.000 0082 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 4.000 4.000 0084 637.2230 Signs Type II Reflective F SF 12.000 12.000 0086 638.2602 Removing Signs Type II EACH 2.000 2.000 0088 638.3000 Removing Small Sign Supports EACH 2.000 2.000 0090 642.5001 Field Office Type B EACH 1.000 1.000 0092 643.0420 Traffic Control Barricades Type III DAY 1,420.000 1,704.000 0094 643.0705 Traffic Control Warning Lights Type A DAY 1,704.000 1,704.000 0096 643.0900 Traffic Control Signs DAY 923.000 923.000	0076	629.0210	Fertilizer Type B	CWT	1.000	1.000	
0082 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 4.000 4.000 0084 637.2230 Signs Type II Reflective F SF 12.000 12.000 0086 638.2602 Removing Signs Type II EACH 2.000 2.000 0088 638.3000 Removing Small Sign Supports EACH 2.000 2.000 0090 642.5001 Field Office Type B EACH 1.000 1.000 0092 643.0420 Traffic Control Barricades Type III DAY 1,420.000 1,704.000 0094 643.0705 Traffic Control Warning Lights Type A DAY 1,704.000 1,704.000 0096 643.0900 Traffic Control Signs DAY 923.000 923.000	0078	630.0120	Seeding Mixture No. 20	LB	5.000	5.000	
0084 637.2230 Signs Type II Reflective F SF 12.000 12.000 0086 638.2602 Removing Signs Type II EACH 2.000 2.000 0088 638.3000 Removing Small Sign Supports EACH 2.000 2.000 0090 642.5001 Field Office Type B EACH 1.000 1.000 0092 643.0420 Traffic Control Barricades Type III DAY 1,420.000 1,704.000 0094 643.0705 Traffic Control Warning Lights Type A DAY 1,704.000 1,704.000 0096 643.0900 Traffic Control Signs DAY 923.000 923.000	0800	630.0500	Seed Water	MGAL	10.000		
0086 638.2602 Removing Signs Type II EACH 2.000 2.000 0088 638.3000 Removing Small Sign Supports EACH 2.000 2.000 0090 642.5001 Field Office Type B EACH 1.000 1.000 0092 643.0420 Traffic Control Barricades Type III DAY 1,420.000 1,704.000 0094 643.0705 Traffic Control Warning Lights Type A DAY 1,704.000 1,704.000 0096 643.0900 Traffic Control Signs DAY 923.000 923.000	0082						
0088 638.3000 Removing Small Sign Supports EACH 2.000 2.000 0090 642.5001 Field Office Type B EACH 1.000 1.000 0092 643.0420 Traffic Control Barricades Type III DAY 1,420.000 1,420.000 0094 643.0705 Traffic Control Warning Lights Type A DAY 1,704.000 0096 643.0900 Traffic Control Signs DAY 923.000	0084						
0090 642.5001 Field Office Type B EACH 1.000 1.000 0092 643.0420 Traffic Control Barricades Type III DAY 1,420.000 1,420.000 0094 643.0705 Traffic Control Warning Lights Type A DAY 1,704.000 0096 643.0900 Traffic Control Signs DAY 923.000	0086						
0092 643.0420 Traffic Control Barricades Type III DAY 1,420.000 1,420.000 0094 643.0705 Traffic Control Warning Lights Type A DAY 1,704.000 1,704.000 0096 643.0900 Traffic Control Signs DAY 923.000 923.000							
0094 643.0705 Traffic Control Warning Lights Type A DAY 1,704.000 1,704.000 0096 643.0900 Traffic Control Signs DAY 923.000 923.000	0090	642.5001		EACH	1.000	1.000	
0096 643.0900 Traffic Control Signs DAY 923.000 923.000	0092		• •	DAY	1,420.000		
·	0094						
0098 643.5000 Traffic Control EACH 1.000 1.000			=				
	0098	643.5000	Traffic Control	EACH	1.000	1.000	

Estimate Of Quantities

9068-00-01

Page

Line	Item	Item Description	Unit	Total	Qty
0100	645.0111	Geotextile Type DF Schedule A	SY	50.000	50.000
0102	645.0120	Geotextile Type HR	SY	313.000	313.000
0104	650.4500	Construction Staking Subgrade	LF	215.000	215.000
0106	650.5000	Construction Staking Base	LF	215.000	215.000
0108	650.6501	Construction Staking Structure Layout (structure) 01. B-42-0137	EACH	1.000	1.000
0110	650.9911	Construction Staking Supplemental Control (project) 01. 9068-00-01	EACH	1.000	1.000
0112	650.9920	Construction Staking Slope Stakes	LF	215.000	215.000
0114	690.0150	Sawing Asphalt	LF	42.000	42.000
0116	715.0502	Incentive Strength Concrete Structures	DOL	1,116.000	1,116.000
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	150.000	150.000
0122	SPV.0060	Special 01. Boulder Retards	EACH	8.000	8.000

EARTHWORK SUMMARY

Division	From/To Station	Location	Common Excavation (item #205.0100) Cut (1)	Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (13) Factor 1.25	Mass Ordinate +/- (14)	208.0100 Borrow	Waste
0010	8+60 - 11+15	PECORE ROAD	143	81	62	97	121	-59	59	81
Division 0010 T	otals		143	81	62	97	121	-59	59	81

- 1) Unsuable Pavement Material is included in Cut
- 4) Unusable Pavement Material = Existing Asphaltic Pavement.
- 5) Available Material = Cut Unusuable Pavement Material
- 13) Expanded Fill. Factor = 1.25 Expanded Fill = Unexpanded Fill * Fill Factor
- 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.

GRUBBING REMOVE CULVERTS REMOVING GUARDRAIL

201.0205 GRUBBING STATION TO STATION LOCATION STA	203.0100 REMOVING SMALL PIPE CULVERTS	STATION TO STATION	1	204.0165 REMOVING GUARDRAIL LF
8+00 - 12+00 PECORE ROAD 4	STATION LOCATION EACH REMARKS	0.40	25005000	44.4
	10+61 PECORE ROAD, RT 1 20'-18" CMCP	9+48 - 10+61 9+36 - 10+47	PECORE ROAD, LT PECORE ROAD, RT	114 111
TOTAL 0010 4	TOTAL 0010 1	3130 10147	TOTAL 0010	225

BASE AGGREGATES DENSE AND WATER

STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL	REMARKS	STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TON	
8+60	_	9+80	PECORE ROAD	20	200	5	WEST APPROACH	8+60	_	9+80	PECORE ROAD	22	70	WEST
10+20	-	11+15	PECORE ROAD	25	180	5	EAST APPROACH	10+20	-	11+15	PECORE ROAD		60	EAST
			TOTAL 0010	45	380	10					TOTAL 0010	40	130	-

ASPHALTIC SURFACE

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 9068-00-01 HWY: PECORE ROAD COUNTY: OCONTO MISCELLANEOUS QUANTITIES SHEET: | E |

 3

^{*} Factors used to compute anticipated fill and waste volume are for general information only.

MIXTURE NO. 20	SEED WATER
LB	MGAL

630.0500

0.9

10

630.0120

1.3

5

URBAN CLASS I FERTILIZER TYPE SEEDING TOPSOIL TYPE B STATION TO STATION LOCATION SY SY CWT 179 179 0.2 4.0 8+60 9+80 PECORE ROAD, LT 1.2 81 81 0.9 10+20 - 11+15 PECORE ROAD, LT 0.1 1.8 8+60 - 9+80 PECORE ROAD, RT 77 77 0.1 0.8 1.7 73 73 0.8 10+20 11+15 PECORE ROAD, RT 0.1 1.6

LANDSCAPING ITEMS

628.2008

EROSION MAT

40

ROCK BAGS

629.0210

0.5

TOTAL 0010 450 450 1

40

625.0100

MOBILIZATIONS EROSION CONTROL

UNDISTRIBUTED

	628.1504	628.1520							
	SILT FENCE	SILT FENCE MAINTENANCE		628.1905	628.1910			628.7570	
STATION TO STATION LOCATION	LF	LF			MOBILIZATIONS			ROCK BAGS	
				MOBILIZATIONS	EMERGENCY	STATION	LOCATION	EACH	REMARKS
				EROSION	EROSION				
8+60 - 9+80 PECORE ROAD, LT	154	308		CONTROL	CONTROL	0.00	DECORE DO A D. LT.	4.5	CHT FENCE DELIFE
10+20 - 11+15 PECORE ROAD, LT	116	232	STATION TO STATION LOCATION	EACH	EACH	9+82	PECORE ROAD, LT	15	SILT FENCE RELIEF
8+60 - 9+80 PECORE ROAD, RT	144	288				10+18	PECORE ROAD, LT	15	SILT FENCE RELIEF
10+20 - 11+15 PECORE ROAD, RT	118	236	8+60 - 11+15 PECORE ROAD	5	3		PECORE ROAD, RT	15	SILT FENCE RELIEF
UNDISTRIBUTED	68	136				10+22	PECORE ROAD, RT	15	SILT FENCE RELIEF
01101011111001120	00	130					UNDISTRIBUTED	15	
TOTAL 0010	600	1,200	TOTAL 0010	5	3		_		<u> </u>
		,					TOTAL 0010	75	

<u>SIGNS</u>

4

12

TOTAL 0010

STATION

9+60

LOCATION

PECORE ROAD, LT

PECORE ROAD, RT

TOTAL 0010

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CULVERT PIPE

521.1018

2

STATION

LOCATION

TOTAL 0010

10+61 PECORE ROAD, RT

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010

UNLESS OTHERWISE NOTED

521.3118

FOR CULVERT CORRUGATED THICKNESS

24

24

SILT FENCE

INCH

0.064

ENDWALLS CULVERT PIPE

PIPE STEEL 18- STEEL 18-INCH

REMOVE SIGN POST

		634.0612	637.2230	
		POSTS WOOD 4X6-INCH X	SIGNS TYPE II	l
~	LOCATION	12-FT	REFLECTIVE F	
STATION	LOCATION	EACH	SF	REMARKS
9+75	PECORE ROAD, LT	1	3	W5-52L
10+25	PECORE ROAD, LT	1	3	W5-52R
9+75	PECORE ROAD, RT	1	3	W5-52L
10+25	PECORE ROAD, RT	1	3	W5-52R

PECORE ROAD Ε PROJECT NO: 9068-00-01 HWY: COUNTY: OCONTO MISCELLANEOUS QUANTITIES SHEET:

FILE NAME: N:\PDS\...\030200_mq.pptx PLOT DATE: October 16, 2025 PLOT BY: A.R.H. PLOT NAME : PLOT SCALE: 1:1

ASPHALTIC FLUMES

606.0200

ASPHALTIC FLUMES RIPRAP MEDIUM GEOTEXTILE TYPE HR

CY

2

645.0120

465.0315

3

3

TRAFFIC CONTROL SIGNS

		643.0420		643.0	0705	643.0900		
	APPOXIMATE	BARRI	TRAFFIC CONTROL BARRICADES TYPE III		CONTROL G LIGHTS E A	TRAF CONT SIGI	ROL	
	SERVICE	NO. IN		NO. IN		NO. IN		
LOCATION	DAYS	SERVICE	DAY	SERVICE	DAY	SERVICE	DAY	REMARKS
WILLOW RD & PECORE RD INTERSECTION	71	2	142	4	284	3	213	(3)
WEST OF WORK ZONE LIMITS	71	2	142	2	142	3	213	(1)
WEST WORK ZONE LIMITS	71	7	497	8	568	2	142	(2)
EAST WORK ZONE LIMITS	71	7	497	8	568	2	142	(2)
EAST OF WORK ZONE LIMITS	71	2	142	2	142	3	213	(1)
ST JOHNS RD & PECORE RD INTERSECTION	71	2	142	4	284	3	213	(4)
TOTAL 0010	•		1,420		1,704		923	_

(1) SEE BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL C

(2) SEE BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL D

(3) SEE BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL C. BRIDGE OUT 0.4 MILES AHEAD AT WILLOW ROAD

(4) SEE BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL C. BRIDGE OUT 0.5 MILES AHEAD AT ST JOHNS ROAD

<u>SAWING</u>

8+60 PECORE ROAD 21 WEST APPROACH
11+15 PECORE ROAD 21 EAST APPROACH
TOTAL 0010 42

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

FILE NAME: N:\PDS\...\030200_mq.pptx

PROJECT NO: 9068-00-01 HWY: PECORE ROAD COUNTY: OCONTO MISCELLANEOUS QUANTITIES SHEET: E

PLOT BY: A.R.H.

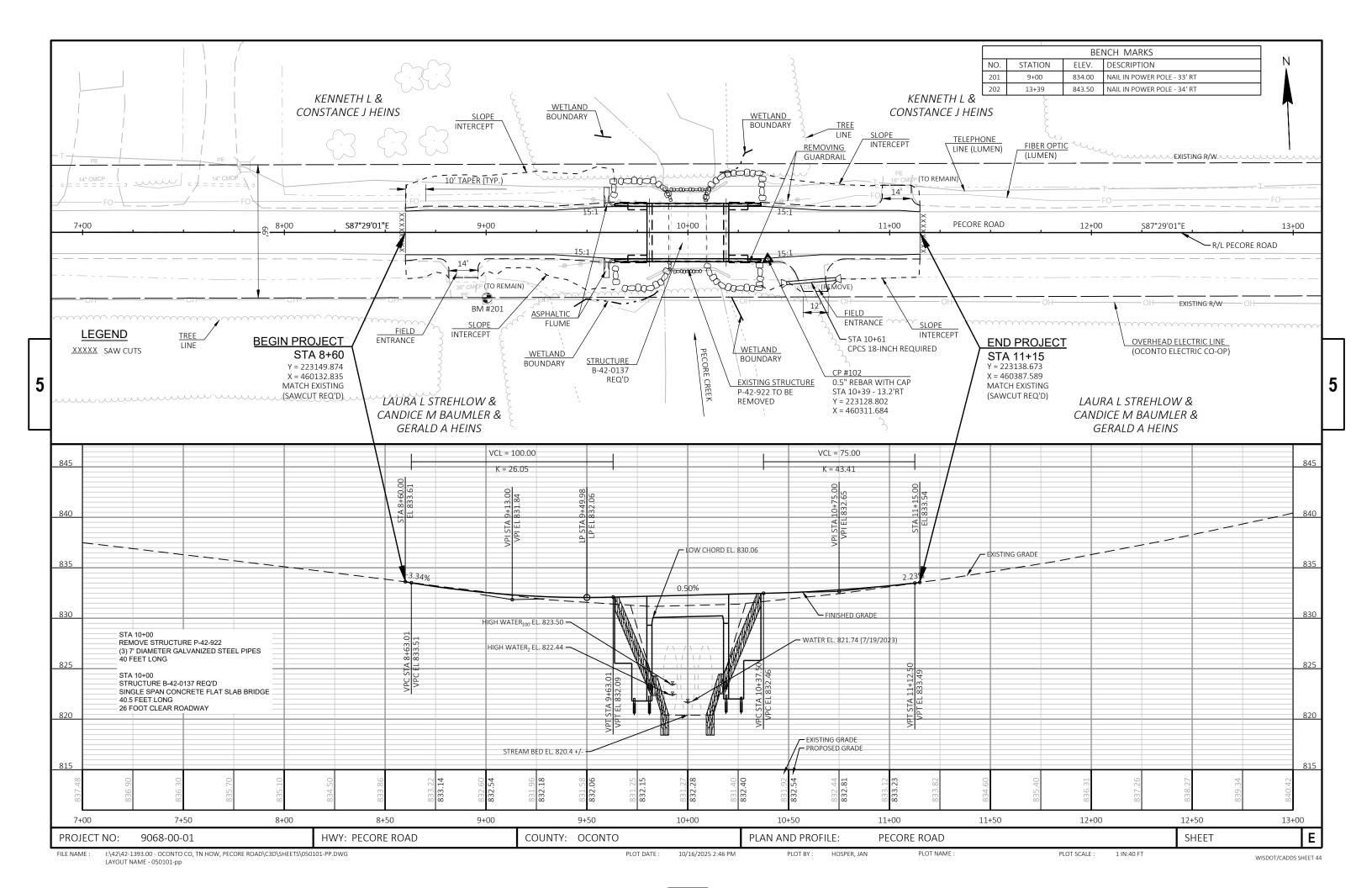
PLOT DATE: October 16, 2025

CONSTRUCTION STAKING

					650.4500	650.5000	650.9920	650.6501.01 CONSTRUCTION STAKING STRUCTURE	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL
					CONSTRUCTION		CONSTRUCTION	LAYOUT	CONTROL
					STAKING	CONSTRUCTION	STAKING SLOPE	(STRUCTURE)	(PROJECT) (01.
					SUBGRADE	STAKING BASE	STAKES	(01. B-42-0137)	9068-00-01)
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	LF	EACH	EACH
0010	8+60	-	9+80	PECORE ROAD	120	120	120	0	1
0010	10+20	-	11+15	PECORE ROAD	95	95	95	0	0
				TOTAL 0010	215	215	215	0	1
0020	- -	10+00)	B-42-0137	0	0	0	1	0
				TOTAL 0020	0	0	0	1	0
				PROJECT TOTAL	215	215	215	1	1

PLOT NAME :

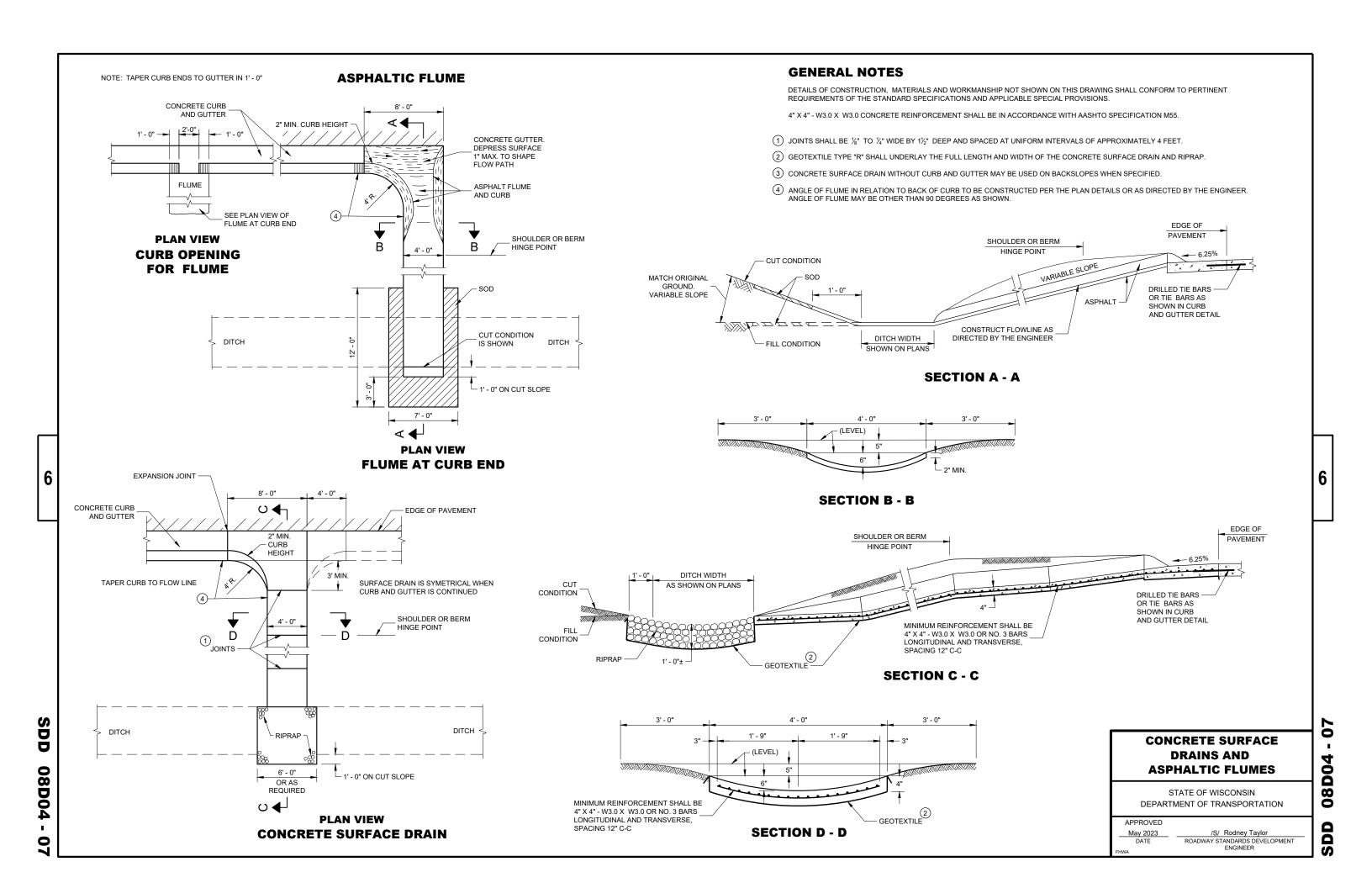
PLOT SCALE: 1:1

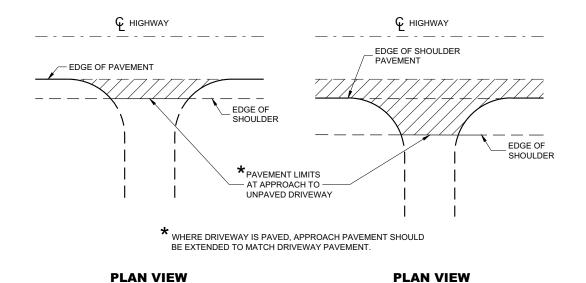


Standard Detail Drawing List

08D04-07 08D21-01	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES DRIVEWAYS WITHOUT CURB & GUTTER
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
14в29-01	SAFETY EDGE
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

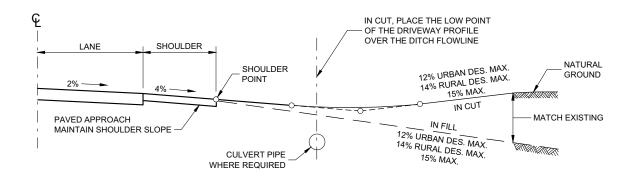
6



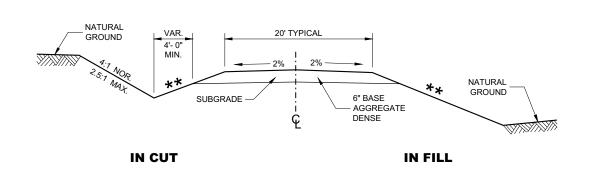


RURAL DRIVEWAY INTERSECTION DETAIL (NO CURB AND GUTTER OR SIDEWALK)

(PAVED SHOULDER ON HIGHWAY)



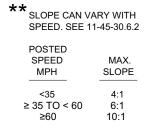
TYPICAL DRIVEWAY PROFILES

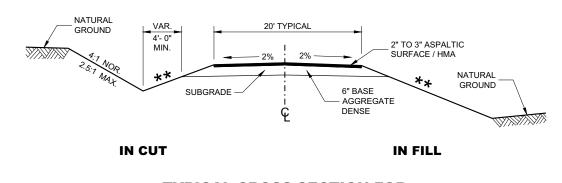


TYPICAL CROSS SECTION FOR

PRIVATE DRIVE OR FIELD ENTRANCE **AGGREGATE SURFACE**

(UNPAVED SHOULDER ON HIGHWAY)





TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

Ò

08D21

SD

SDD 08D21

6

December 2017 DATE

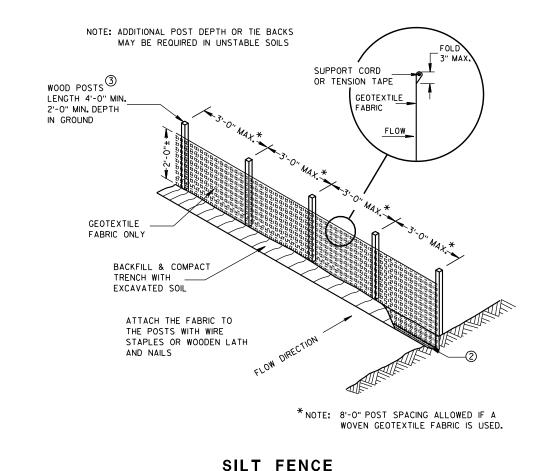
TYPICAL APPLICATION OF SILT FENCE

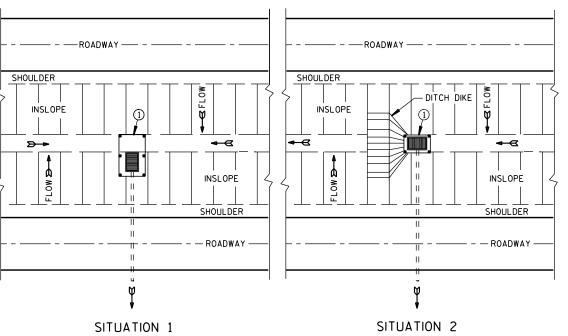
6

b

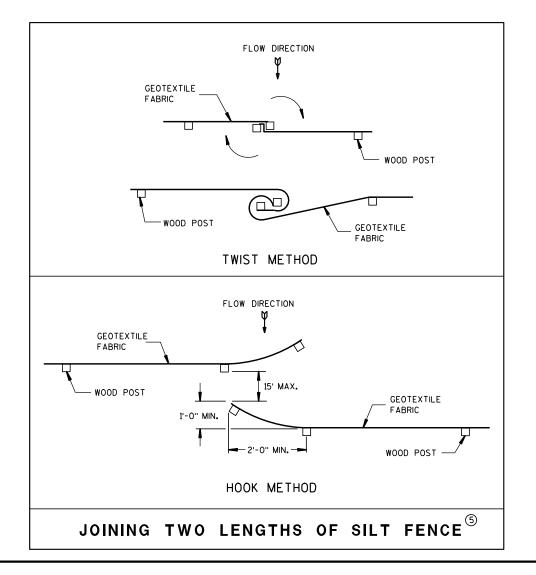
Ō

Ш





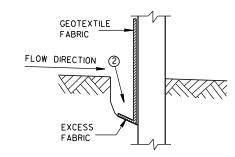
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



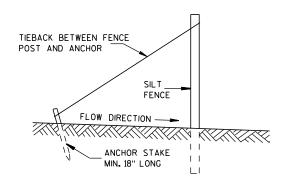
GENERAL NOTES

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

- \bigcirc HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

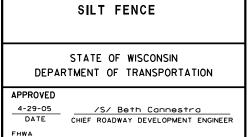


TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



6

ထ

D.D. 8 E 9-6

 ∞

Δ

6

END CORNER

1/16" DIA. HOLES FOR

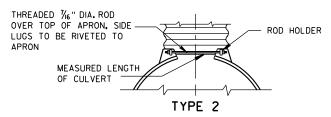
BOLTS OR RIVETS -

12" C-C MAX. SPACING

METAL APRON ENDWALLS											
PIPE	PIPE MIN. THICK.			DIMENSIONS (Inches)						APPROX.	
DIA. (IN.)	(Inch		A (±]")	B (MAX.)	H (±]")	L (±1 ½")	<u>1</u> 0	L 2	₩ (±2")	SLOPE	BODY
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	21/2+o 1	1 Pc.
18	.064	.060	8	10	6	31	15	281/4	36	$2\frac{1}{2}$ to 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	$2\frac{1}{2}$ to 1	1Pc.
24	.064	. 075	10	13	6	41	18	371/4	48	2½+o 1	1Pc.
30	.079	. 075	12	16	8	51	18	521/4	60	2½+o 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	2½+o 1	2 Pc.
42	.109	. 105	16	22	11	69	24	75%	84	21/2+o 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ †o 1	3 Pc.
54	.109	. 105	18	30	12	84	30	851/2	102	2 ¹ / ₄ †o 1	3 Pc.
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	1½+o 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	ı	ı	150	1½+0 1	3 Pc.

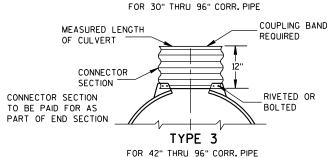
	REINFORCED CONCRETE APRON ENDWALLS							
PIPE		APPROX.						
DIA.	T	A	В	С	D	E	G	SLOPE
12	2	4	24	48 1/8	721/8	24	2	3 to 1
15	21/4	6	27	46	73	30	21/4	3 to 1
18	$2\frac{1}{2}$	9	27	46	73	36	21/2	3 to 1
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1
24	3	91/2	431/2	30	731/2	48	3	3 to 1
27	31/4	101/2	$49^{1}/_{2}$	24	731/2	54	31/4	3 to 1
30	$3\frac{1}{2}$	12	54	193⁄4	731/2	60	31/2	3 to 1
36	4	15	63	34¾	97¾	72	4	3 to 1
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	51/2		65	**************************************	98 ¹ /4- 100	90	51/2	2% to 1
60	6	* ** 30-35	60	39	99	96	5	2 to 1
66	61/2		* ** 72-78	* * * 21-27	99	102	51/2	2 to 1
72	7	* ** 24-36	78	21	99	108	6	2 to 1
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1
84	8	36	901/2	21	1111/2	120	61/2	11/2+0 1
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1

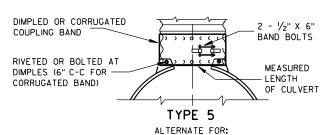
END SECTION CONNECTOR STRAP THREADED 76" DIA. ROD AROUND CULVERT & THROUGH CONNECTOR TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT



TYPE 1

FOR 12" THRU 24" CORR. PIPE





ALL SIZES CORRUGATED CIRCULAR PIPE

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

> FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

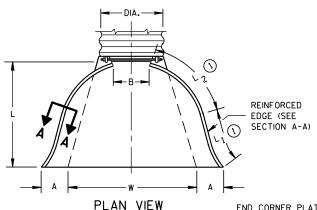
CONNECTION DETAILS

1" WIDE. 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION

*MINIMUM **MAXIMUM

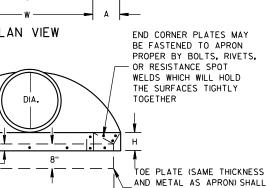
OPTIONAL

DESIGN



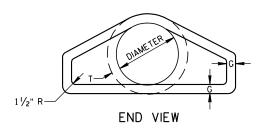
* EXCEPT CENTER PANEL

SEE GENERAL NOTES

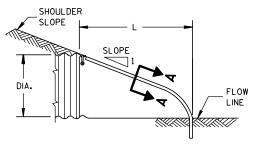


BE FURNISHED WHEN CALLED

FOR ON THE PLANS

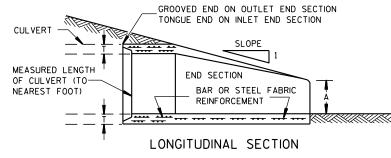


PLAN

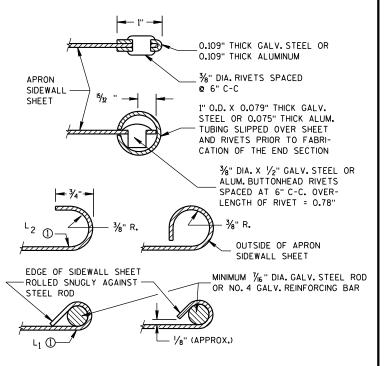


END VIEW





CONCRETE ENDWALLS



SECTION A-A

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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

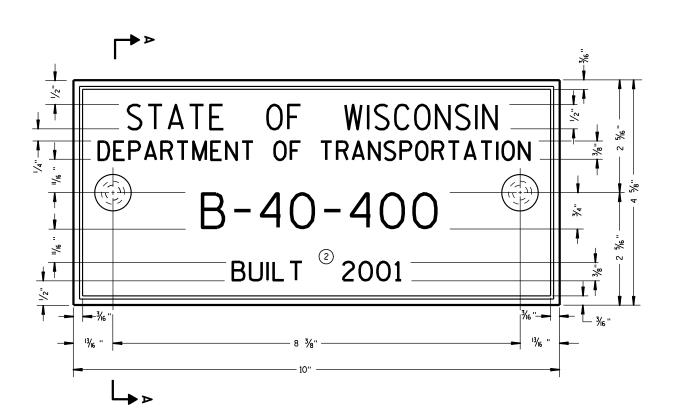
(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

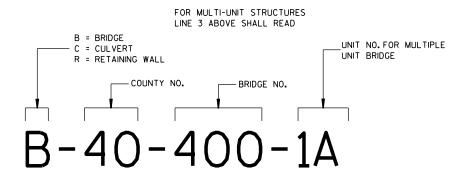
11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



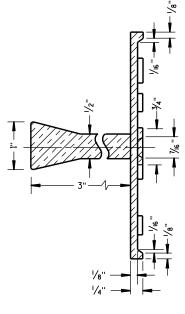
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

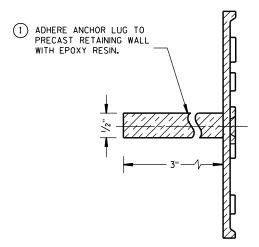
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

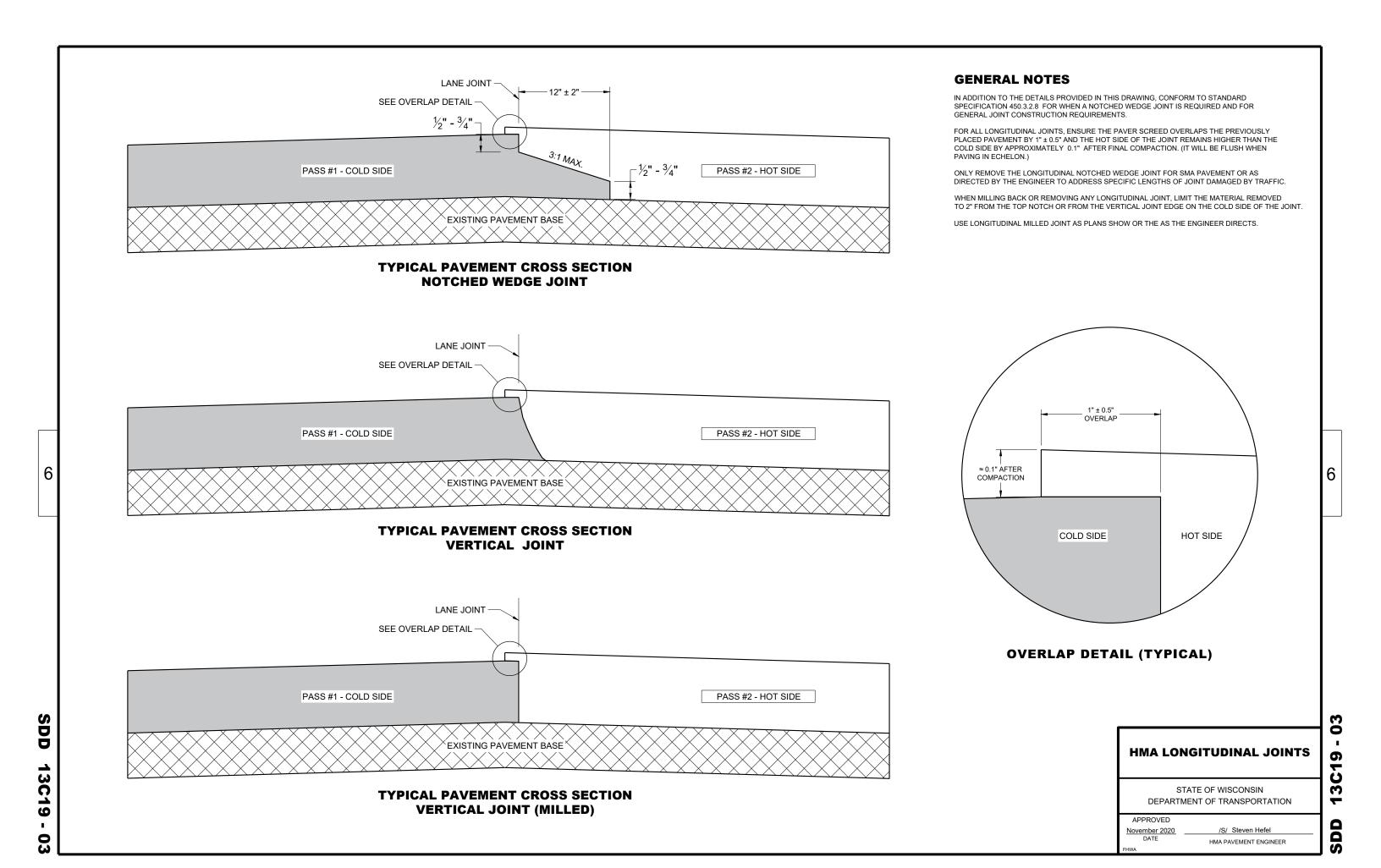
APPROVED

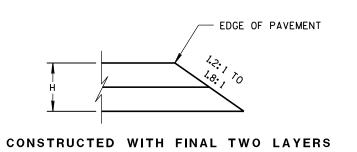
3/26/IO /S/ Scot Becker

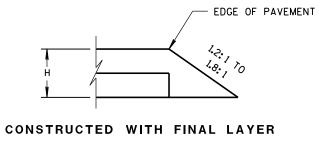
DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

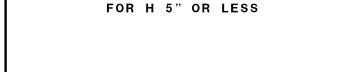
3-10

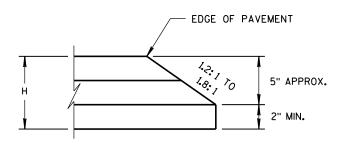






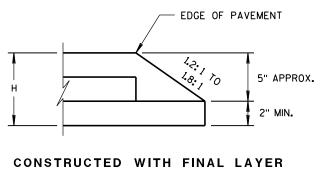
FOR H 5" OR LESS



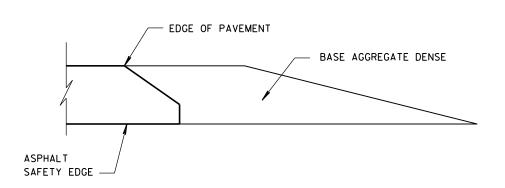


CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"



FOR H GREATER THAN 5"



FINISHED SHOULDER AGGREGATE PLACEMENT

HMA PAVEMENT AND HMA OVERLAYS

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

 $\mathbf{\omega}$

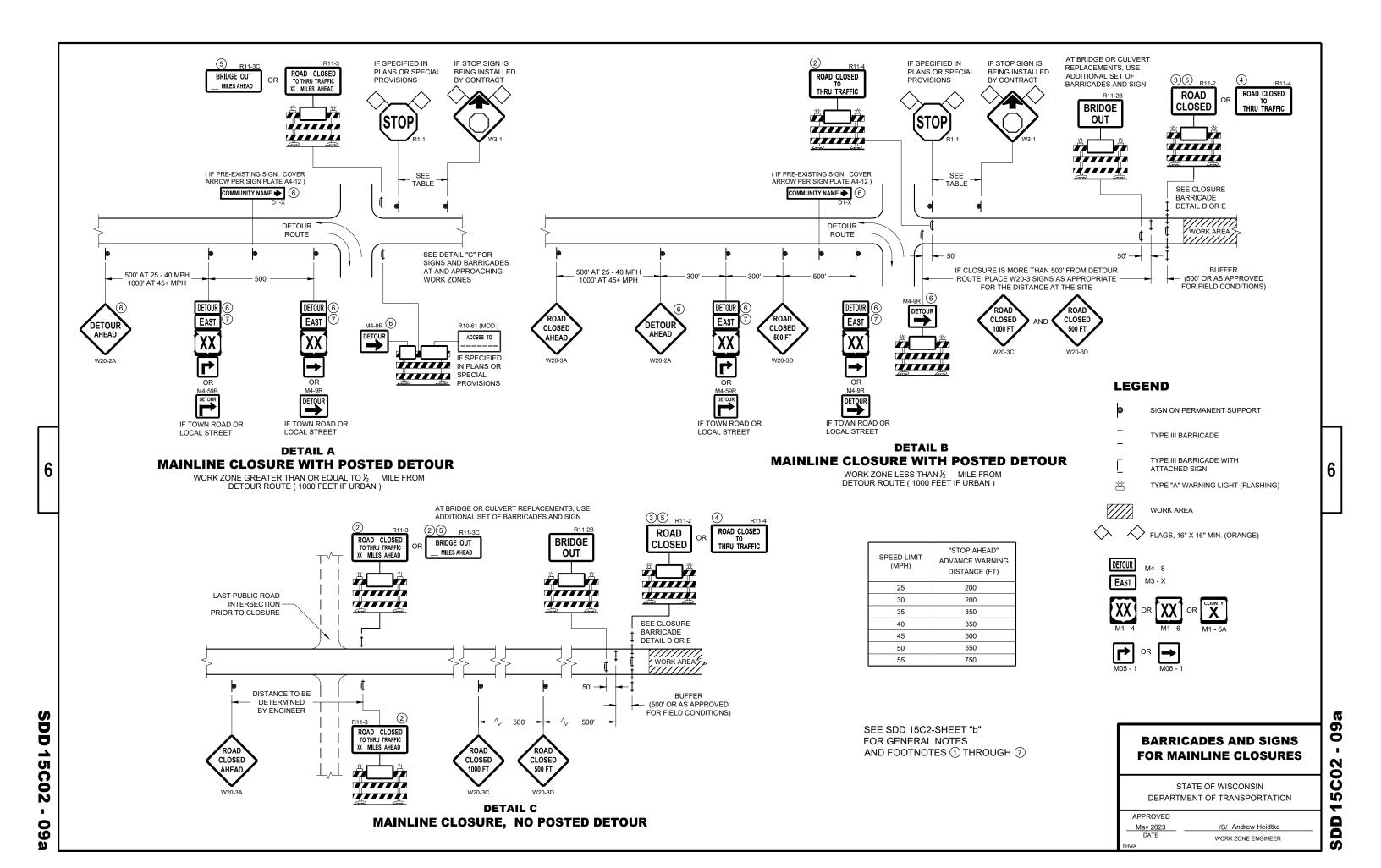
Ω

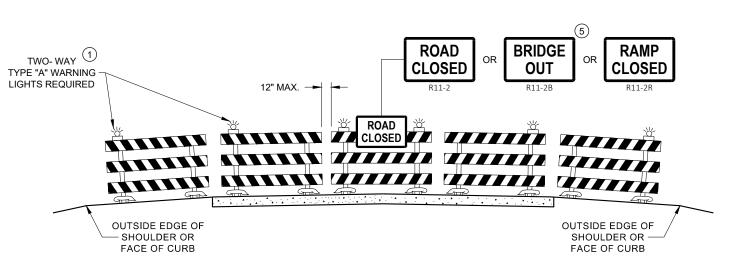
Ω

APPROVED

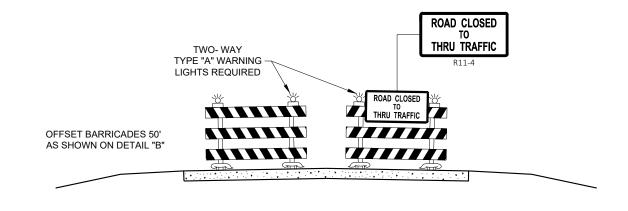
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

6





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**

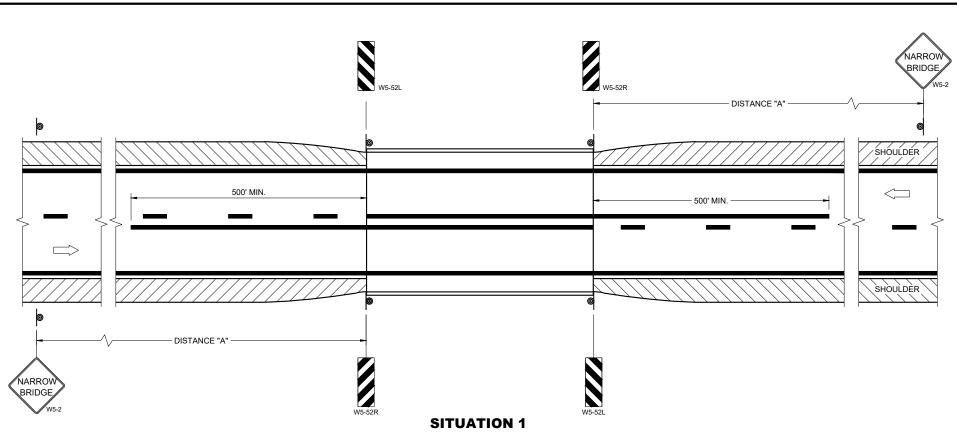
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

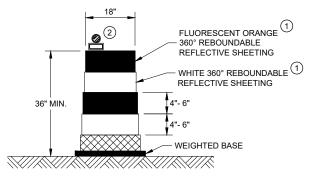
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

SDD 15C11

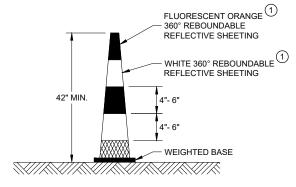
GENERAL NOTES

- (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.



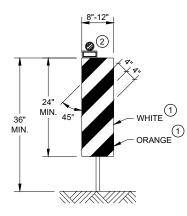
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



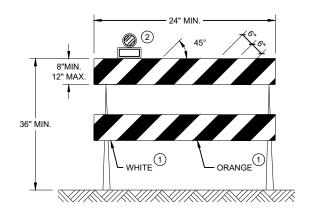
42" CONE

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



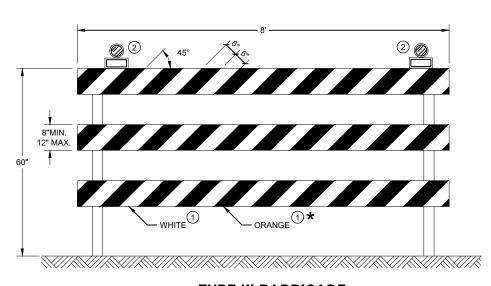
VERTICAL PANEL

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.

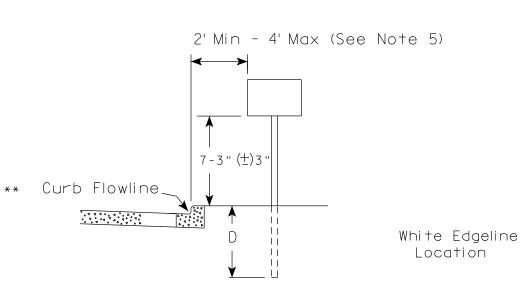
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

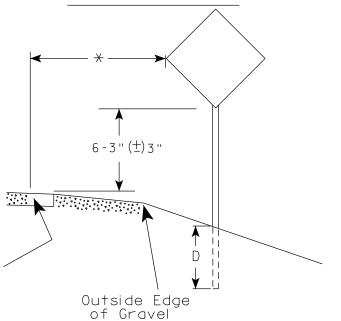
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

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





RURAL AREA (See Note 2)



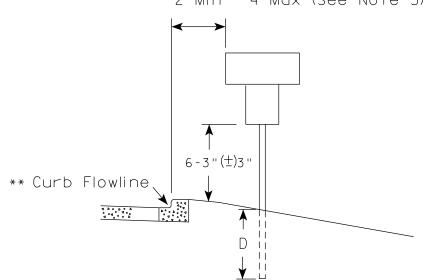
GENERAL NOTES

- 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

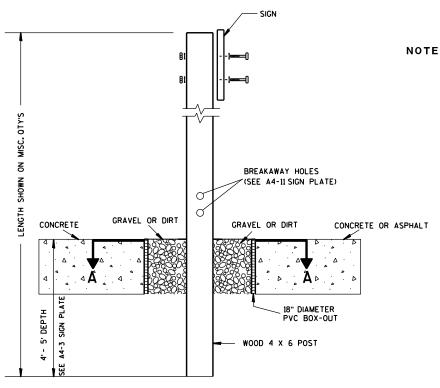
Matthew R Rawh

For State Traffic Engineer

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

Ε

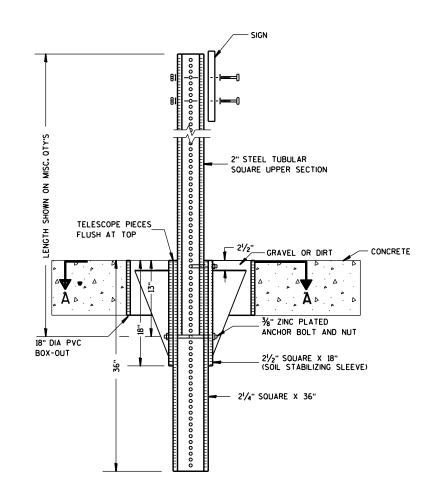
PROJECT NO: HWY: COUNTY: SHEET NO:



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.



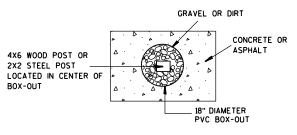
ELEVATION VIEW

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

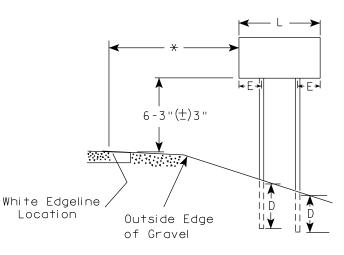
PLOT NAME :

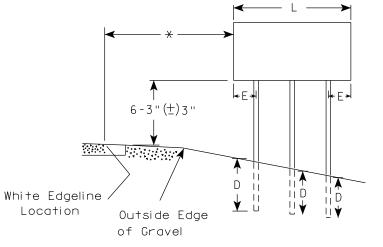
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

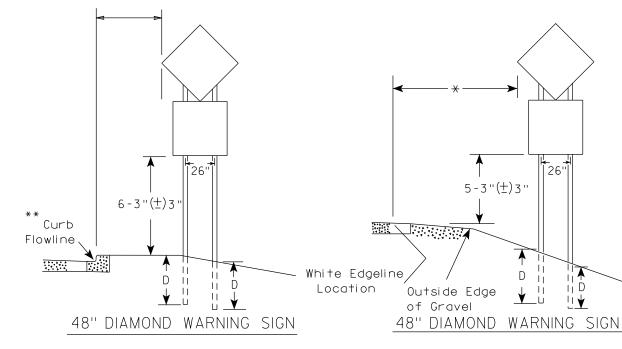
APPROVED

WISDOT/CADDS SHEET 42





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



	DIAMOND (C	
* * *	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

HWY:

SIGN SHAPE OTHER THAN	DIAMOND			
(THREE POSTS REQUIRED)				
L	E			
Greater than 108" to 144"	12''			

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) 3'' or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\times \times \times$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

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

Ε

CUEET NO.

SHEET NO:

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

PROJECT NO:

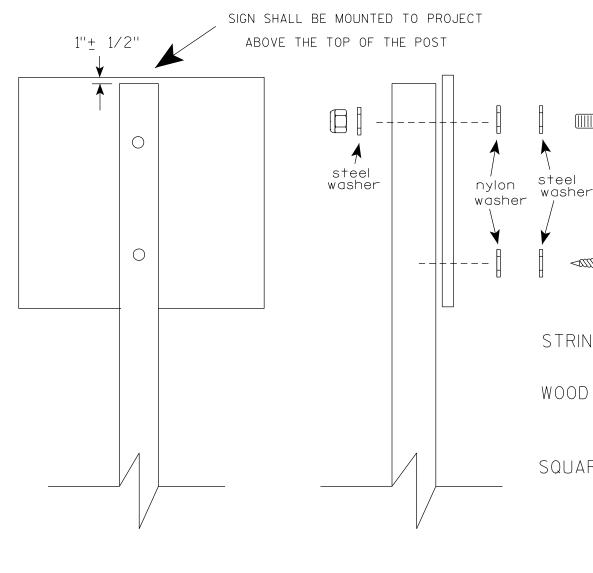
COUNTY:

PLOT 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

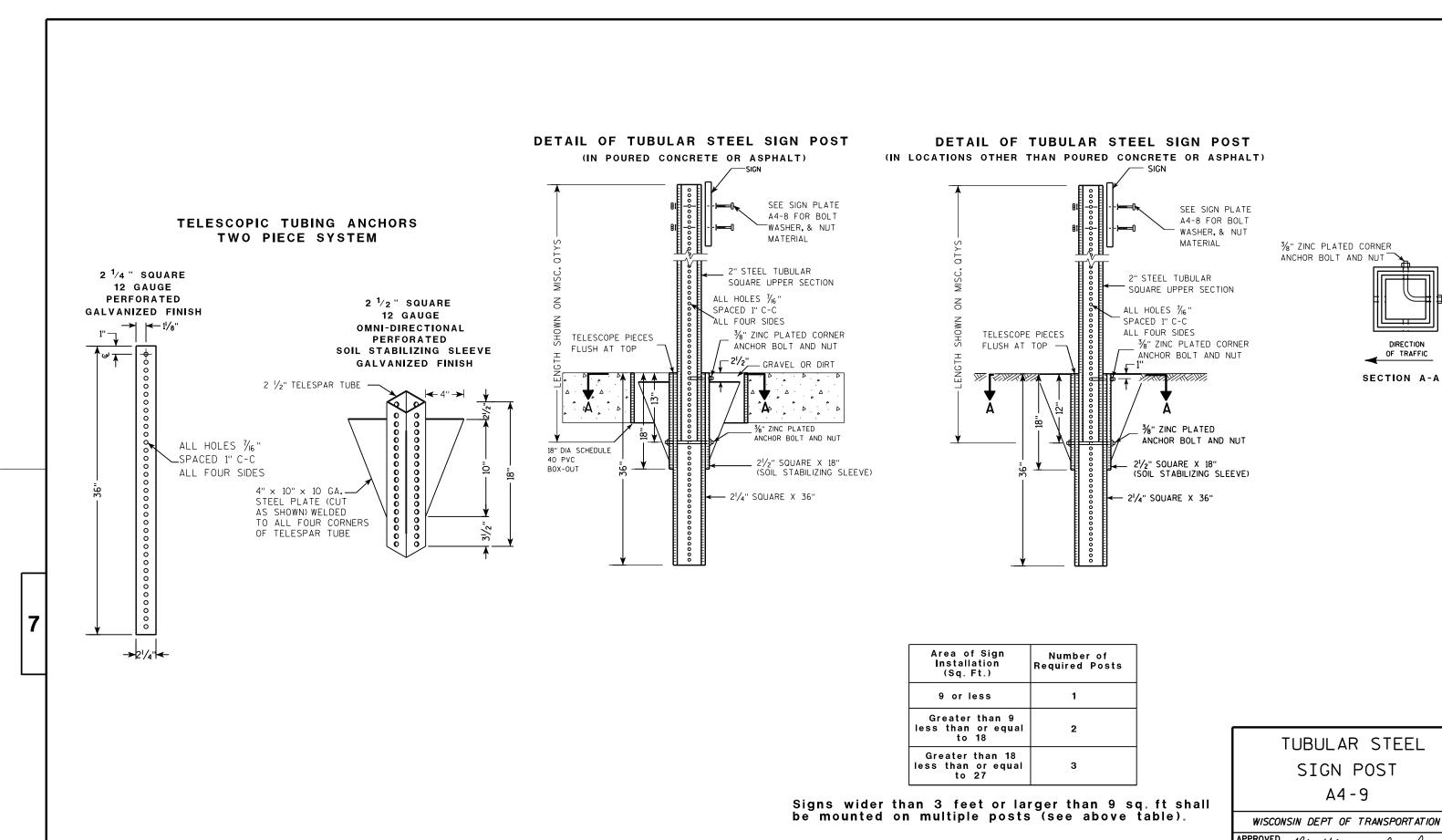
PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

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

PROJECT NO:

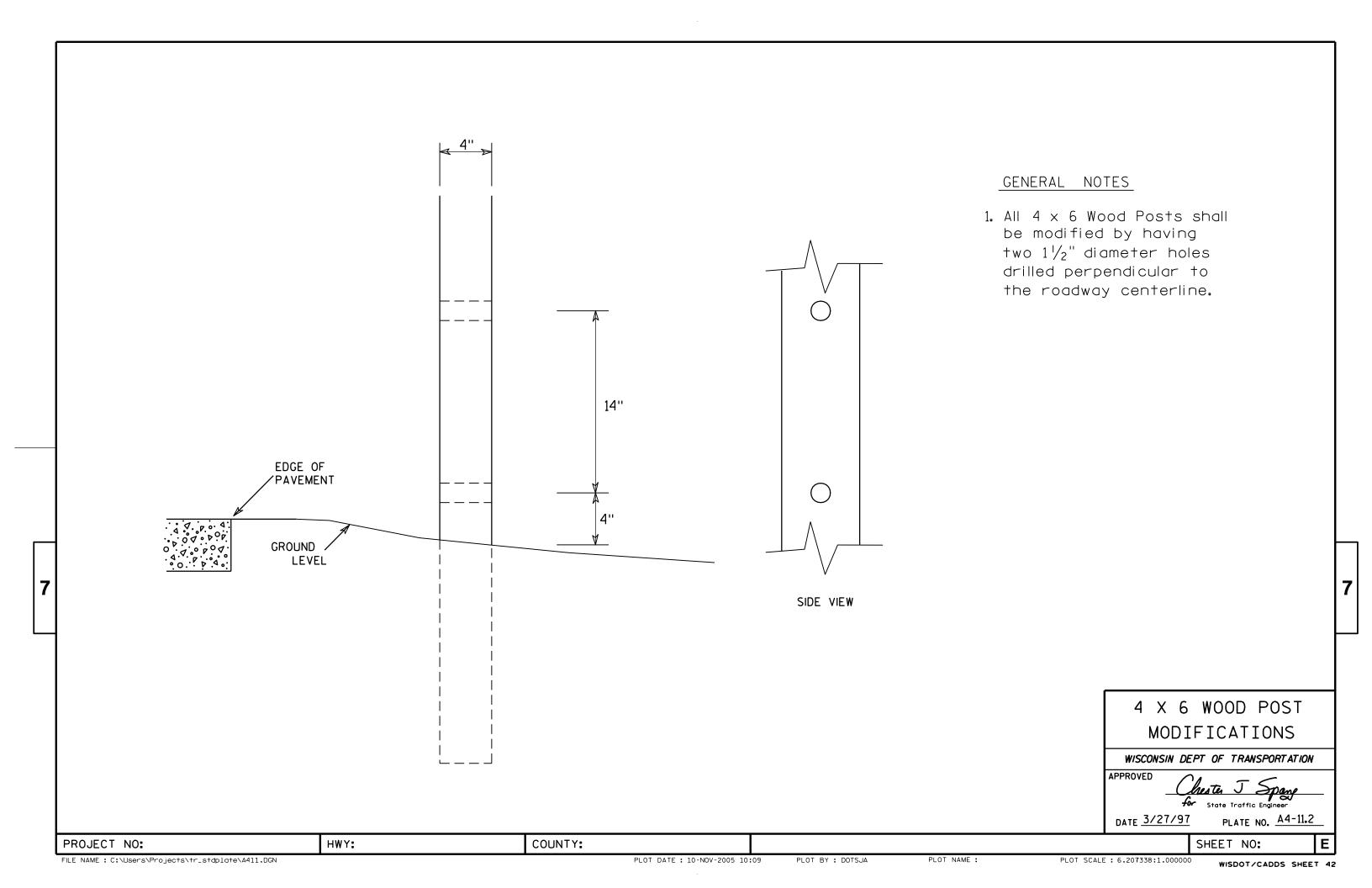


PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

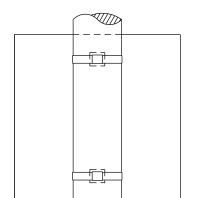
DATE 2/05/15

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

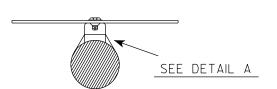
For State Traffic Engineer

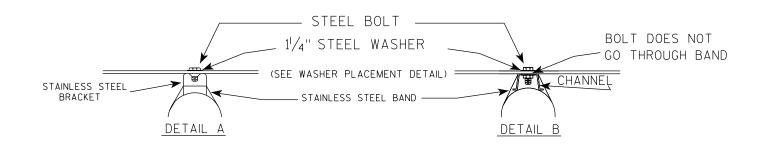


BANDING

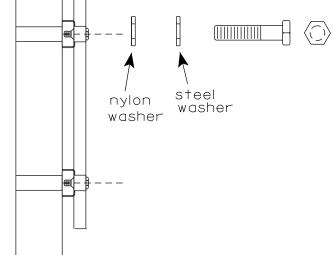


SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

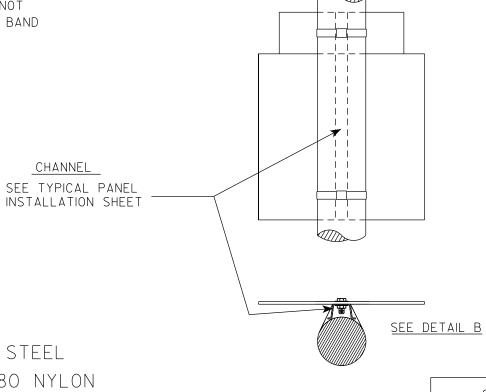
1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

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

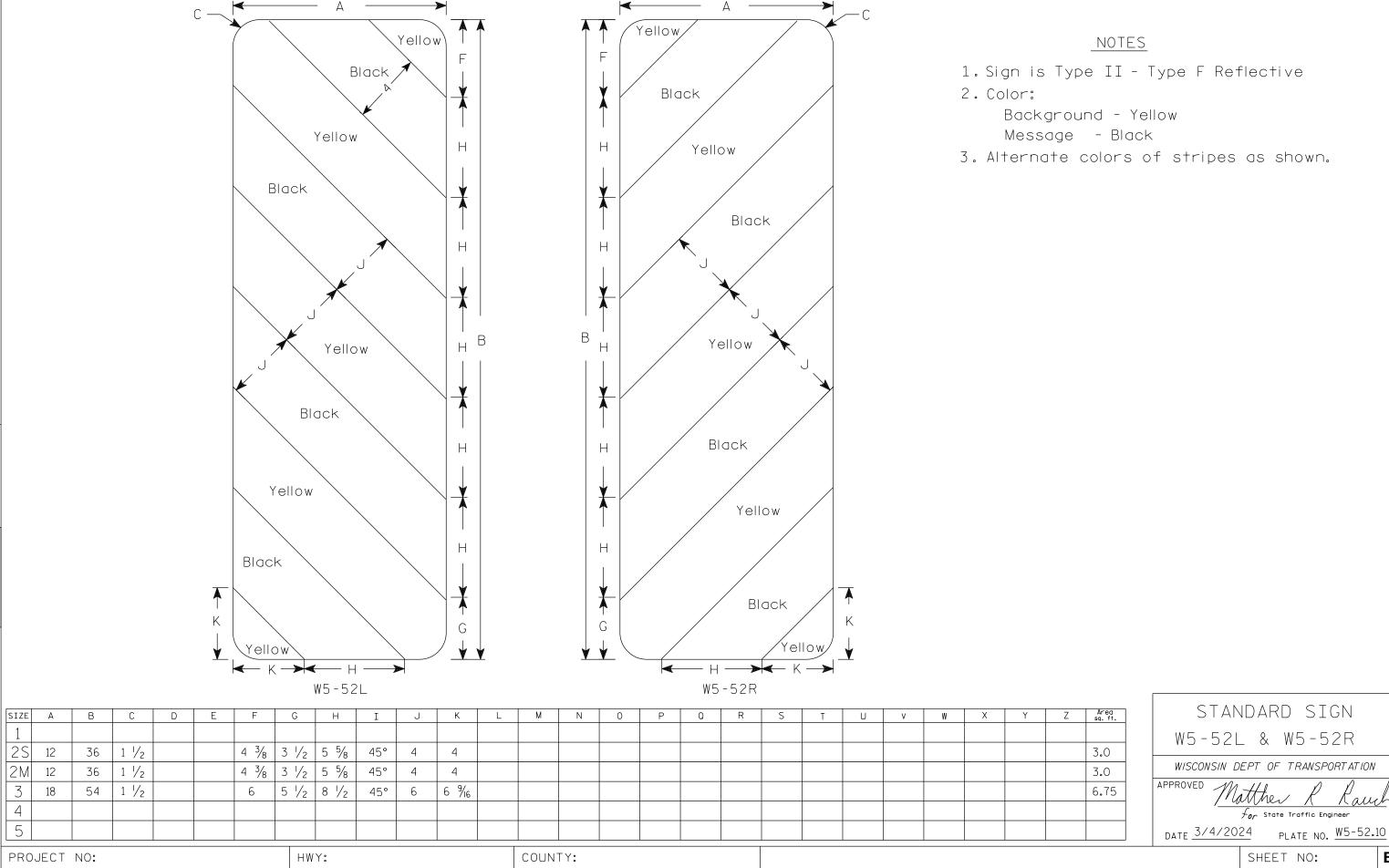
SIGN

PLOT BY : dotc4c

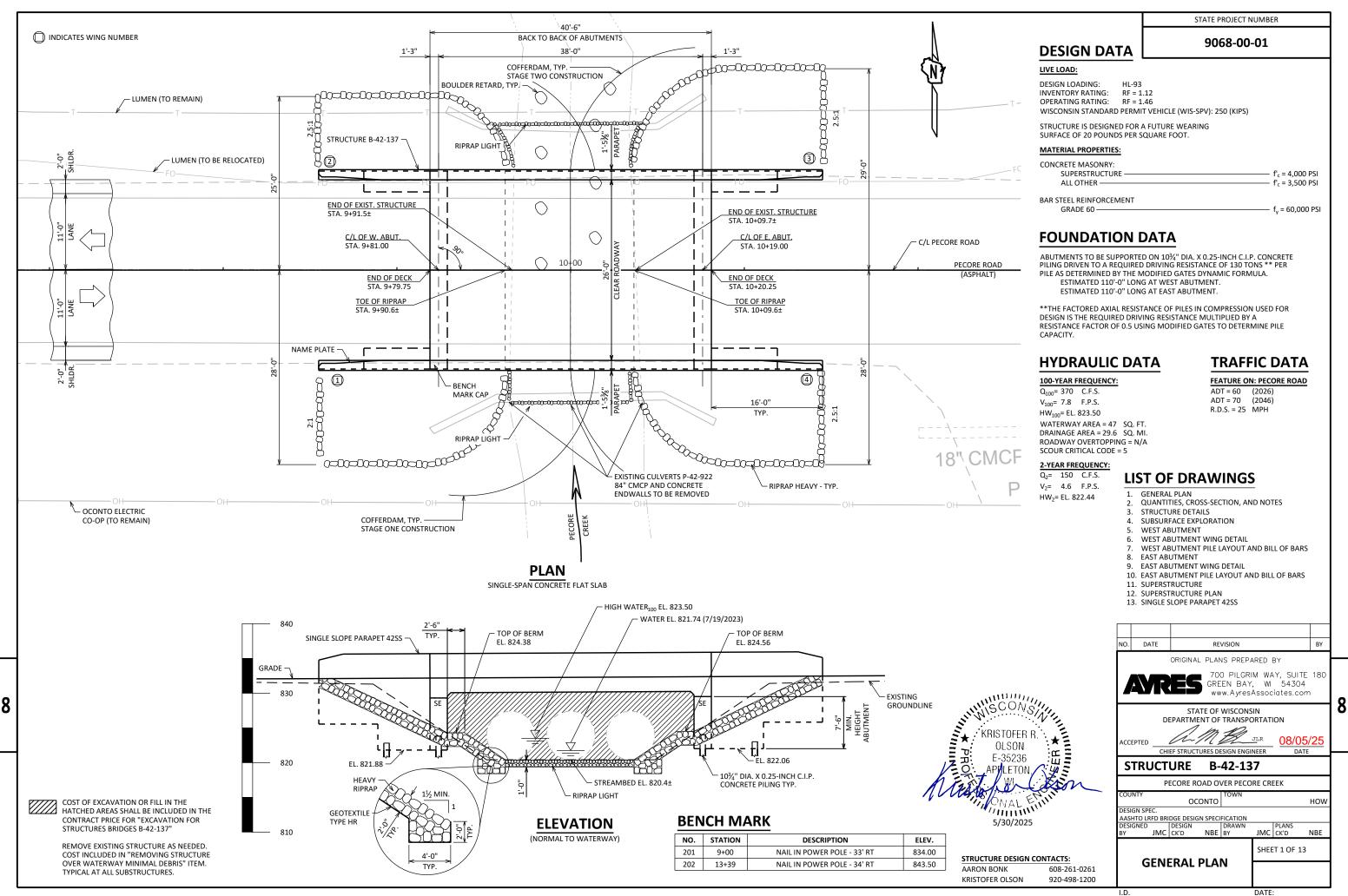
WISDOT/CADDS SHEET 42

Ε

•



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



PROFILE GRADE LINE

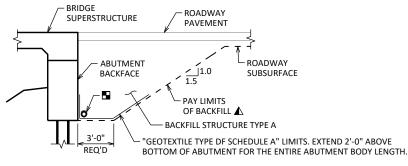
QUANTITIES,

CROSS-SECTION,

AND NOTES

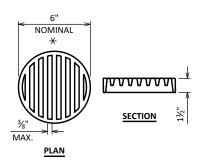
SHEET 2 OF 13

CIP PILE DETAILS



TYPICAL SECTION THRU ABUTMENT

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

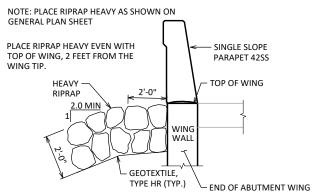


RODENT SHIELD DETAIL

* 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.



TYPICAL FILL SECTION AT WING TIPS

NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

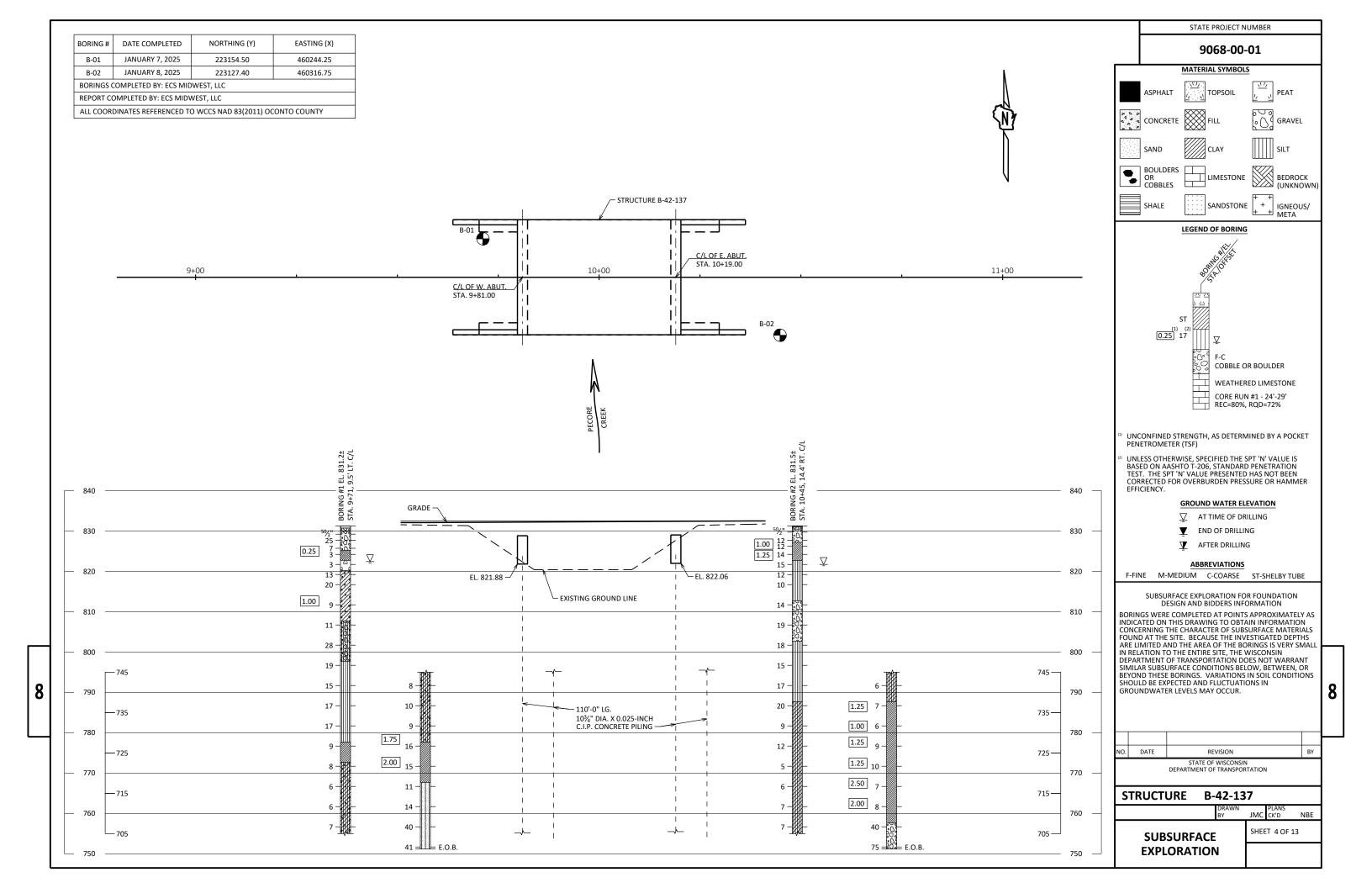
STRUCTURE B-42-137

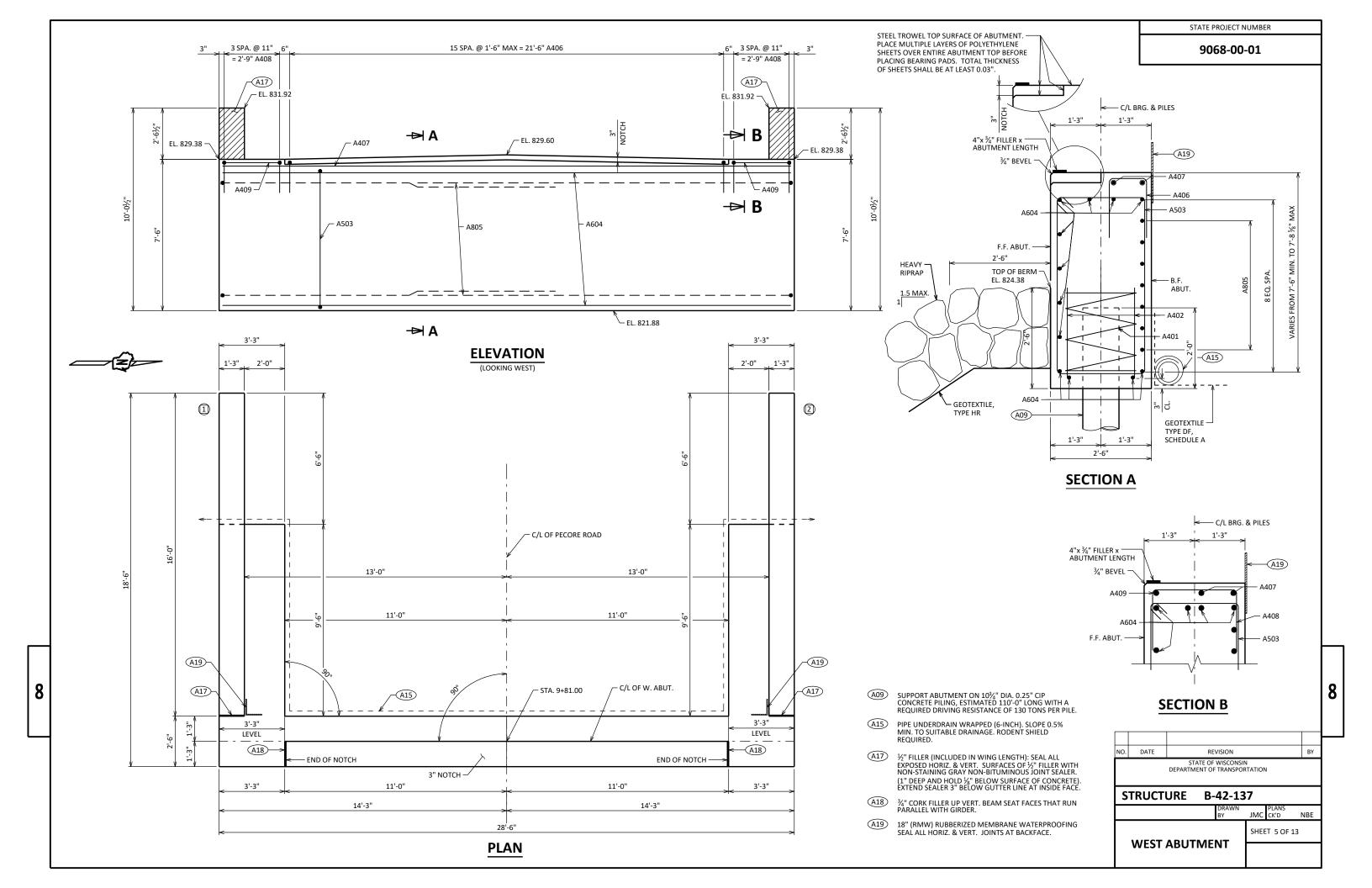
DRAWN BY JMC CK'D NBE

STRUCTURE DETAILS

SHEET 3 OF 13

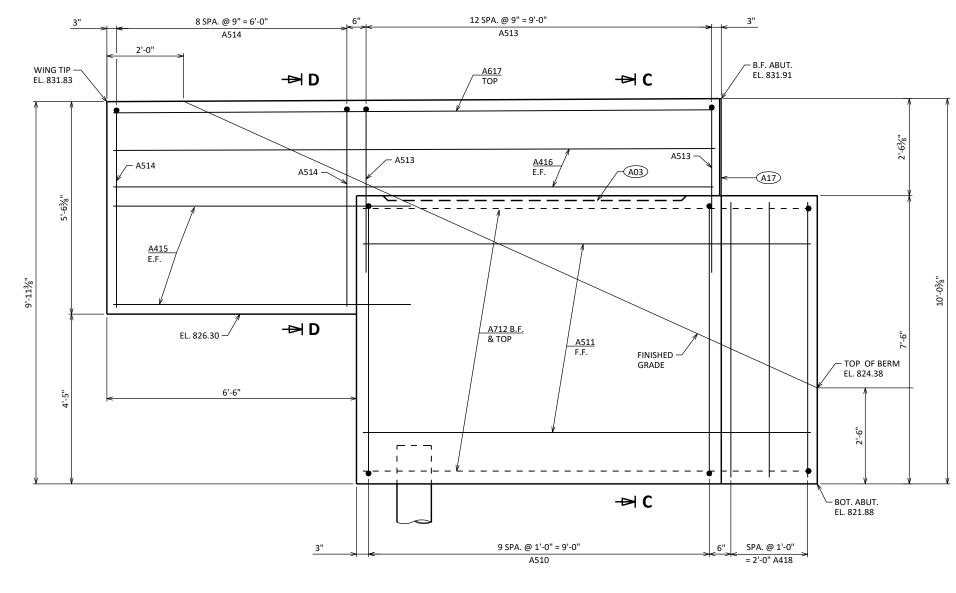
ŏ

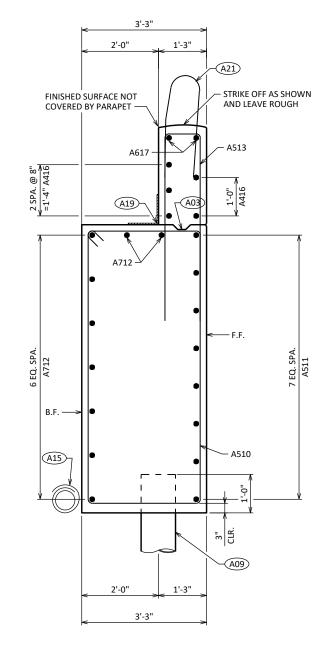


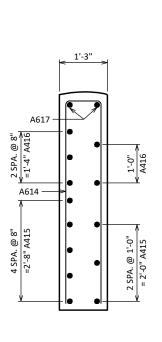


STATE PROJECT NUMBER

9068-00-01







SECTION D

ELEVATION - WING 1

(WING 1 SHOWN - WING 2 SIMILAR)

SECTION C

NO.	DATE	REVISION	BY
Ċ		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	

8

STRUCTURE B-42-137

WEST ABUTMENT
WING DETAIL

| DRAWN | DRAWN | PLANS | N | PLANS | N

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

(A03)

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

SUPPORT ABUTMENT ON $10\frac{3}{4}$ " DIA. 0.25" CIP CONCRETE PILING, ESTIMATED 110° -0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 130 TONS PER PILE.

- (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.
- FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.

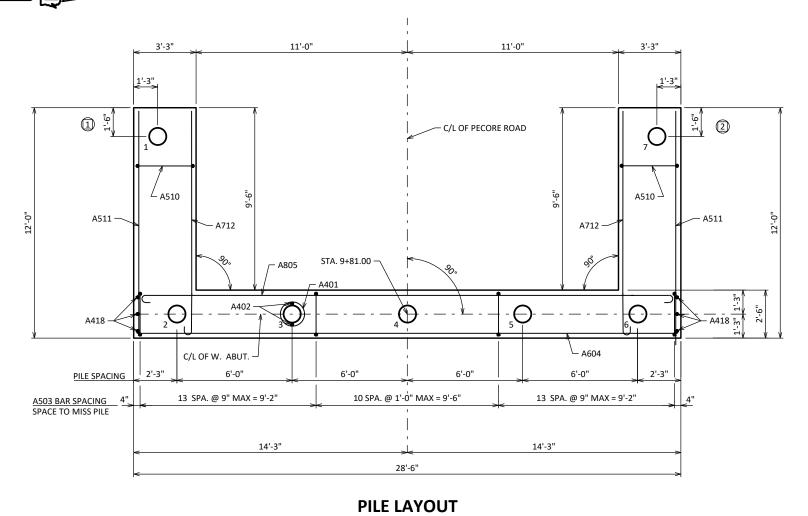
9068-00-01

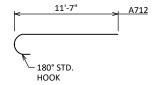
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION	
A401		5	28'-0"	Х		BODY @ PILES	
A402		10	2'-3"			BODY @ PILES	
A503		37	18'-8"	Х		BODY VERT.	
A604		12	28'-2"			BODY HORIZ.	
A805		7	29'-10"	Х		BODY HORIZ. B.F.	
A406		16	3'-3"	Х		BODY VERT. TOP	
A407		2	28'-2"			BODY HORZ. TOP	
A408		8	4'-6"	Х		BODY VERT. TOP	
A409		2	2'-11"			BODY HORZ. TOP	
A510	Х	20	20'-8"	Х		WINGS 1 & 2 VERT.	
A511	Х	16	11'-7"			WINGS 1 & 2 HORIZ. F.F.	
A712	Х	18	12'-5"	Х		WINGS 1 & 2 HORIZ. B.F. & TOP	
A513	Х	26	9'-4"	Х		WINGS 1 & 2 VERT.	
A514	Х	18	10'-10"	Х		WINGS 1 & 2 VERT.	
A415	Х	16	7'-10"			WINGS 1 & 2 HORIZ. E.F.	
A416	Х	10	15'-7"			WINGS 1 & 2 HORIZ. E.F.	
A617	Х	4	15'-7"			WINGS 1 & 2 E.F. TOP	



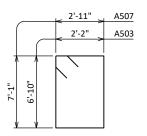
A418 X 6 7'-2"





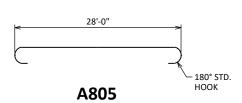
A712

5 WRAP SPIRAL A401



BODY VERT. END @ WINGS 1 & 2





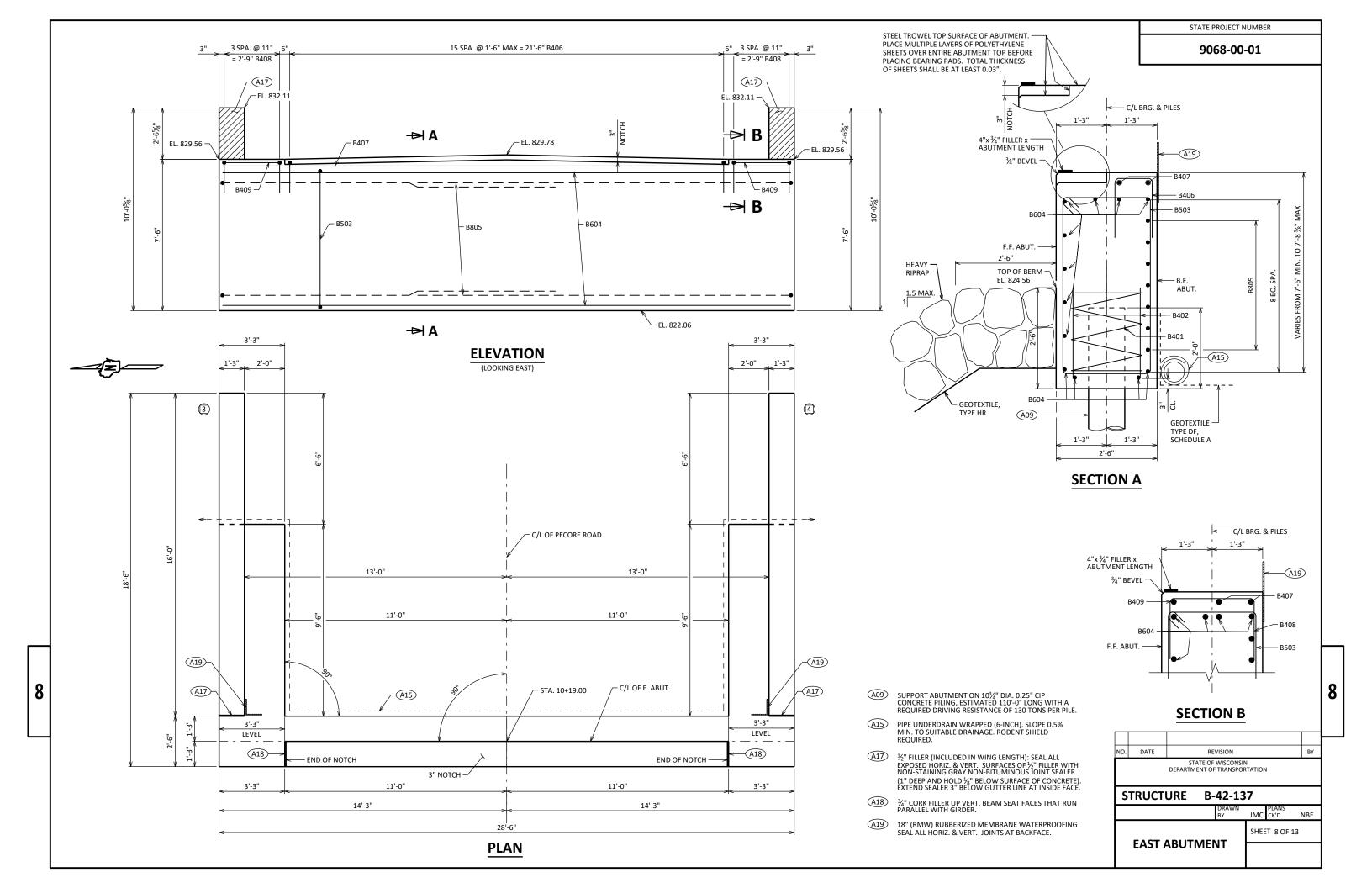
8

BAR MARK	Α	В
A406	11"	1'-3"
A408	2'-2"	1'-3"
A513	11"	4'-4"
A514	11"	5'-1"

NO.	DATE	REVISION	BY				
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION							
CTRUCTURE R 42 127							

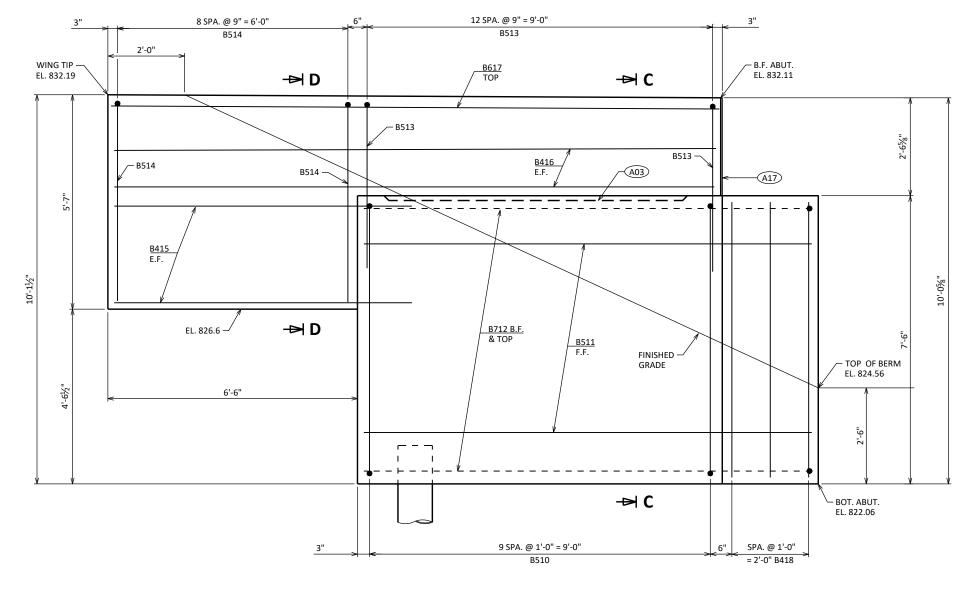
STRUCTURE	B-42-13	-		
	DRAWN BY	JMC	PLANS CK'D	
WEST ABUT	MENT	SHEE	T 7 OF 1	

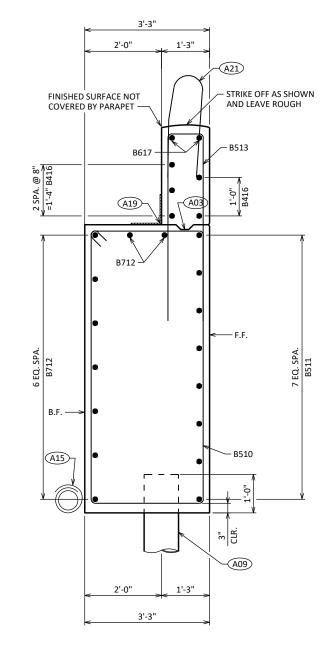
PILE LAYOUT AND **BILL OF BARS**

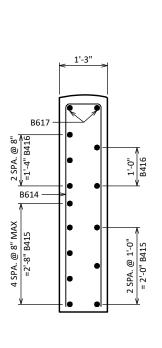


STATE PROJECT NUMBER

9068-00-01







SECTION D

ELEVATION - WING 3

(WING 4 SHOWN - WING 4 SIMILAR)

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

A09 SUPPORT ABUTMENT ON 10¾" DIA. 0.25" CIP CONCRETE PILING, ESTIMATED 110'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 130 TONS PER PILE.

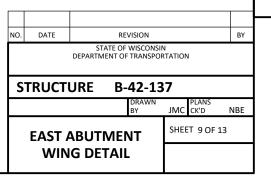
A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

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.

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

A21 FOR PPT. BARS & DIMENSIONS SEE PARAPET SHEET.

SECTION C

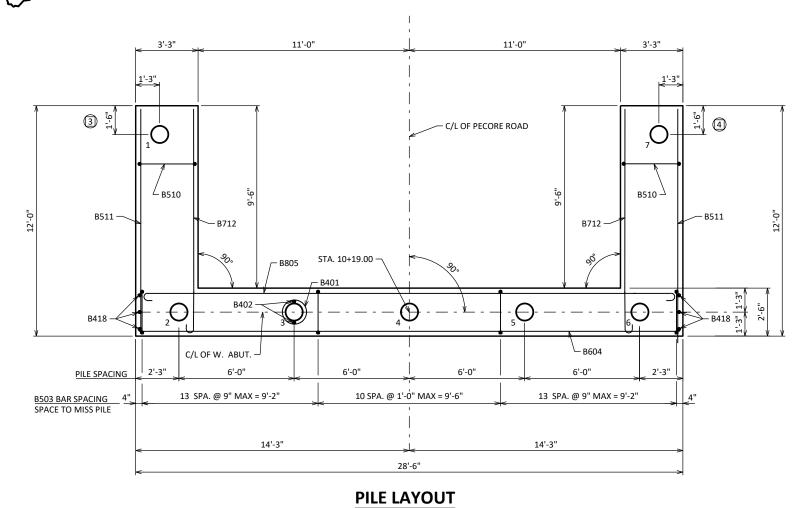


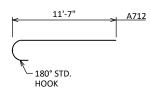
9068-00-01

BILL OF BARS

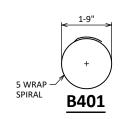
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

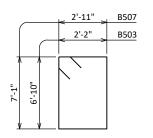
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION		
B401		5	28'-0"	Х		BODY @ PILES		
B402		10	2'-3"			BODY @ PILES		
B503		37	18'-8"	Х		BODY VERT.		
B604		12	28'-2"			BODY HORIZ.		
B805		7	29'-10"	Х		BODY HORIZ. B.F.		
B406		16	3'-3"	Х		BODY VERT. TOP		
B407		2	28'-2"			BODY HORZ. TOP		
B408		8	4'-6"	Х		BODY VERT. TOP		
B409		2	2'-11"			BODY HORZ. TOP		
B510	Х	20	20'-8"	Х		WINGS 3 & 4 VERT.		
B511	Х	16	11'-7"			WINGS 3 & 4 HORIZ. F.F.		
B712	Х	18	12'-5"	Х		WINGS 3 & 4 HORIZ. B.F. & TOP		
B513	Х	26	9'-4"	Х		WINGS 3 & 4 VERT.		
B514	Х	18	10'-10"	Х		WINGS 3 & 4 VERT.		
B415	Х	16	7'-10"			WINGS 3 & 4 HORIZ. E.F.		
B416	Х	10	15'-7"			WINGS 3 & 4 HORIZ. E.F.		
B617	Х	4	15'-7"			WINGS 3 & 4 E.F. TOP		
B418	Х	6	7'-2"			BODY VERT. END @ WINGS 3 & 4		



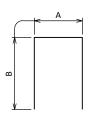


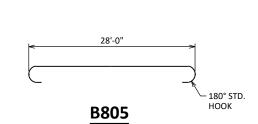
B712





B503, B510





8

B406, B408, B513, B514

BAR MARK	A	В
B406	11"	1'-3"
B408	2'-2"	1'-3"
B513	11"	4'-4"
B514	11"	5'-1"

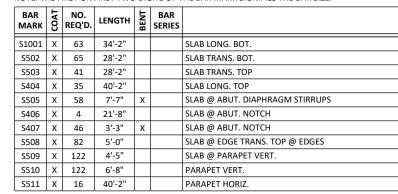
١						
				TATE OF WISCO MENT OF TRAN		
NO.	DATE	NO.	DATE	REVISION	١	BY

STRUCTURE	B-42-137
	DRAWN

EAST ABUTMENT SHEET 10 OF 13 PILE LAYOUT AND **BILL OF BARS**

9068-00-01

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

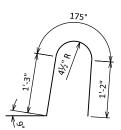


2'-0"

S505

BILL OF BARS

S407



S510

S509

NOTES

CENTERS.

★ ¾" V-GROOVE REQ'D. EXTEND TO 6" FROM F.F. OF ABUT. BODY.

TOP TRANSVERSE BARS IN SLAB

INDIVIDUAL BAR CHAIRS AT 3'-0"

CHAIRS AT APPROXIMATELY 4'-0"

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

CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR

V-GROOVES ARE REQUIRED.

SHALL BE SUPPORTED BY

1'-5%"

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:

CAMBER AND SLAB THICKNESS DIAGRAM CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER

TOP OF SLAB ELEVATION AT FINAL GRADE

CAMBER

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

28'-103/4"

34 SPA. @ 10" MAX = 28'-0" S404

61 SPA. @ 5½" = 28'-0" S1001

TYPICAL SECTION THRU BRIDGE

- SLAB THICKNESS

2.0%

- S502

38'-0"

13'-0"

S508 -

••••••

PROPOSED C/L OF

PECORE ROAD

POINT REFERRED

2.0%

√_ S503

13'-0"

- SINGLE SLOPE PARAPET 42SS

- 1'-10" SLAB

SEE SHEET 13 FOR DETAILS

TOP OF SLAB ELEVATIONS

LOCATION	C/L W. ABUT	½ ₁₀ PT.	²⁄₁₀ PT.	³⁄₁₀ PT.	⅓ ₁₀ PT.	5∕ ₁₀ PT.	%₀ PT.	⅓ ₀ PT.	8∕ ₁₀ PT.	%₀ PT.	C/L E. ABUT.
N. EDGE OF SLAB	831.92	831.94	831.96	831.98	831.99	832.01	832.03	832.05	832.07	832.09	832.11
C/L OF PECORE ROAD	832.18	832.20	832.22	832.24	832.25	832.27	832.29	832.31	832.33	832.35	832.37
S. EDGE OF SLAB	831.92	831.94	831.96	831.98	831.99	832.01	832.03	832.05	832.07	832.09	832.11

SURVEY TOP OF SLAB ELEVATIONS

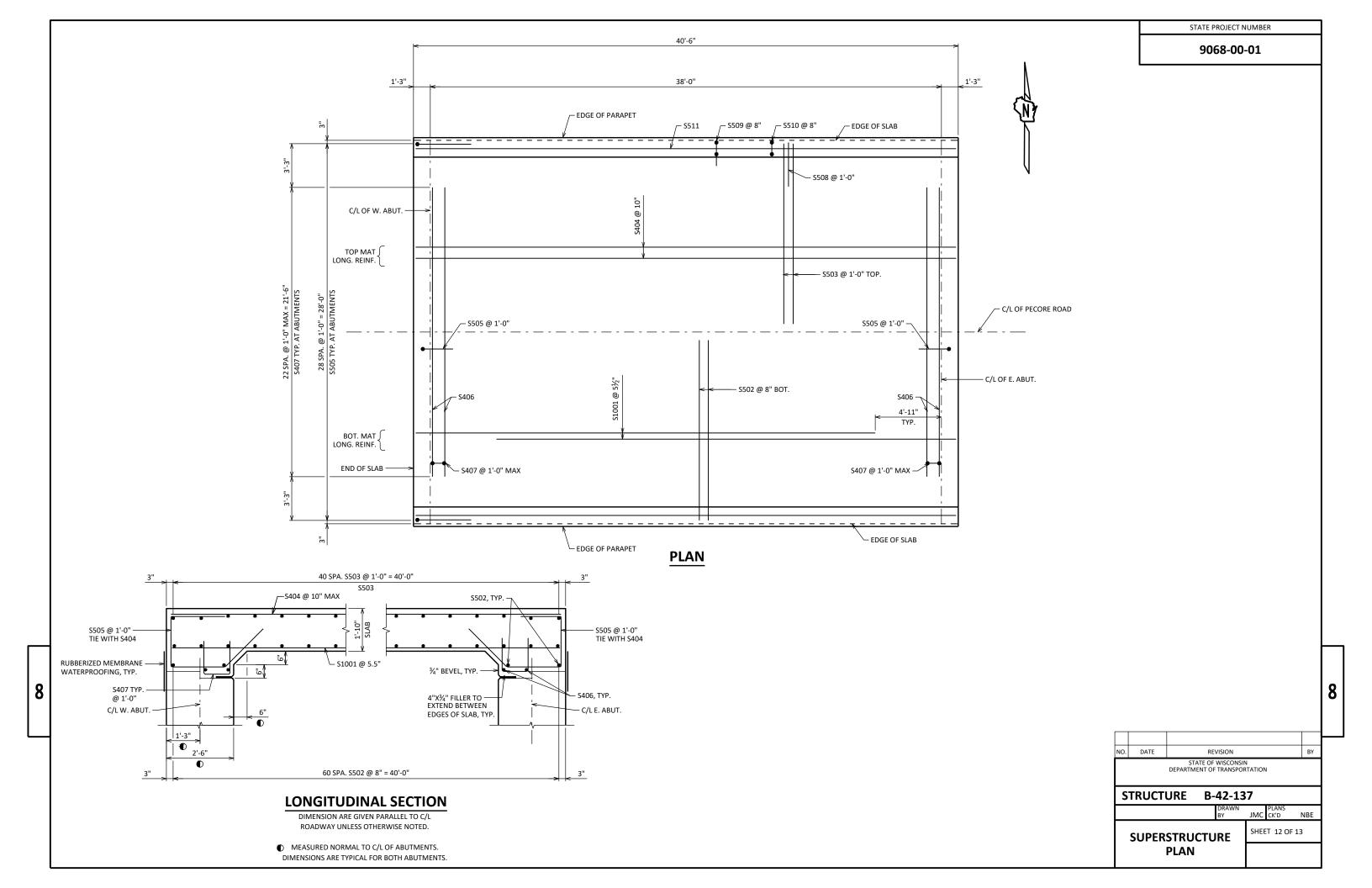
	W. ABUTMENT	<u>5/10 PT.</u>	E. ABUTMENT
N. EDGE OF SLAB			
C/L OF PECORE ROAD			
S. EDGE OF SLAB			

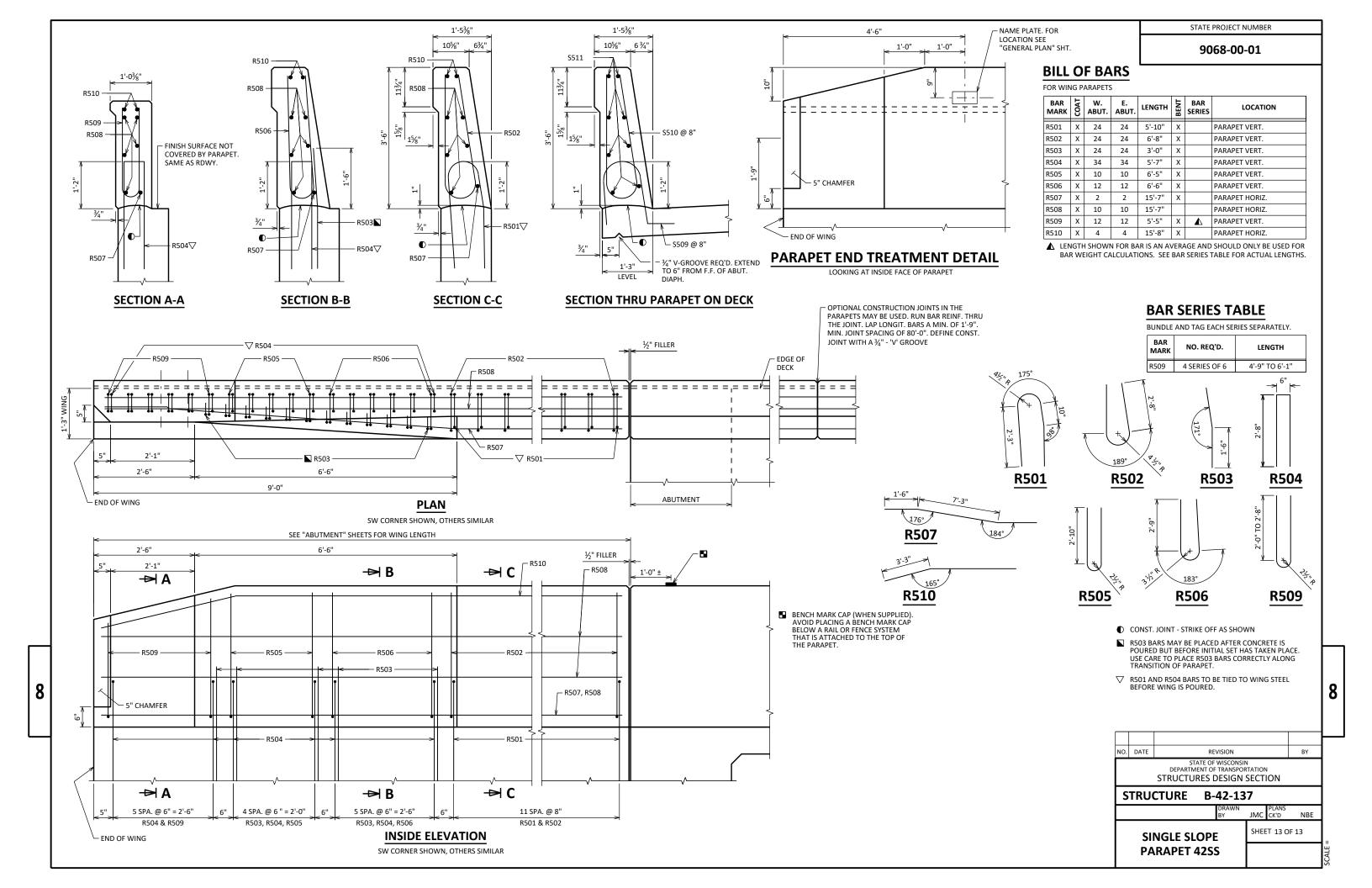
PRIOR TO RELEASING SLAB FORMWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS, AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND C/L.. RECORD ELEVATIONS IN THE TABLE ABOVE FOR THE "AS BUILT" PLANS.

						h					
NO.	DATE	REVISION									
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION										
STRUCTURE B-42-137											
			DRAWN BY	JMC	PLANS CK'D	NBE					
	CLIDED	CTDLICTL	SHEET 11 OF 13								
	SUPER	STRUCTU									

1'-5%"

TYP.





PECORE RD

	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION	СИТ	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	СИТ	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
				NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
8+60.00	21.6	10.0	0.00	0	0	0	0	0	0
8+90.00	29.8	10.0	4.29	29	11	2	29	3	16
9+00.00	31.2	10.0	3.87	11	4	2	40	5	20
9+50.00	13.3	10.0	16.44	41	19	19	81	29	18
9+63.68	7.7	10.0	24.82	5	5	10	86	41	6
9+79.75	7.7	10.0	24.82	5	6	15	91	60	-14
B-42-0137									
10+20.25	4.5	10.0	35.12	0	0	0	91	60	-14
10+36.32	4.5	10.0	35.12	3	6	21	94	86	-43
10+50.00	10.5	10.0	8.20	4	5	11	98	100	-58
10+60.00	13.5	10.0	12.47	4	4	4	102	105	-63
11+00.00	25.0	10.0	3.85	28	15	12	130	120	-65
11+15.00	21.4	10.0	0.00	13	6	1	143	121	-59

TOTAL 143 81 97

Notes:

1 - Cut Cut includes Salvaged/Unusable Pavement material

2 - Salvaged/Unusable Pavement Material This does not show up in cross sections

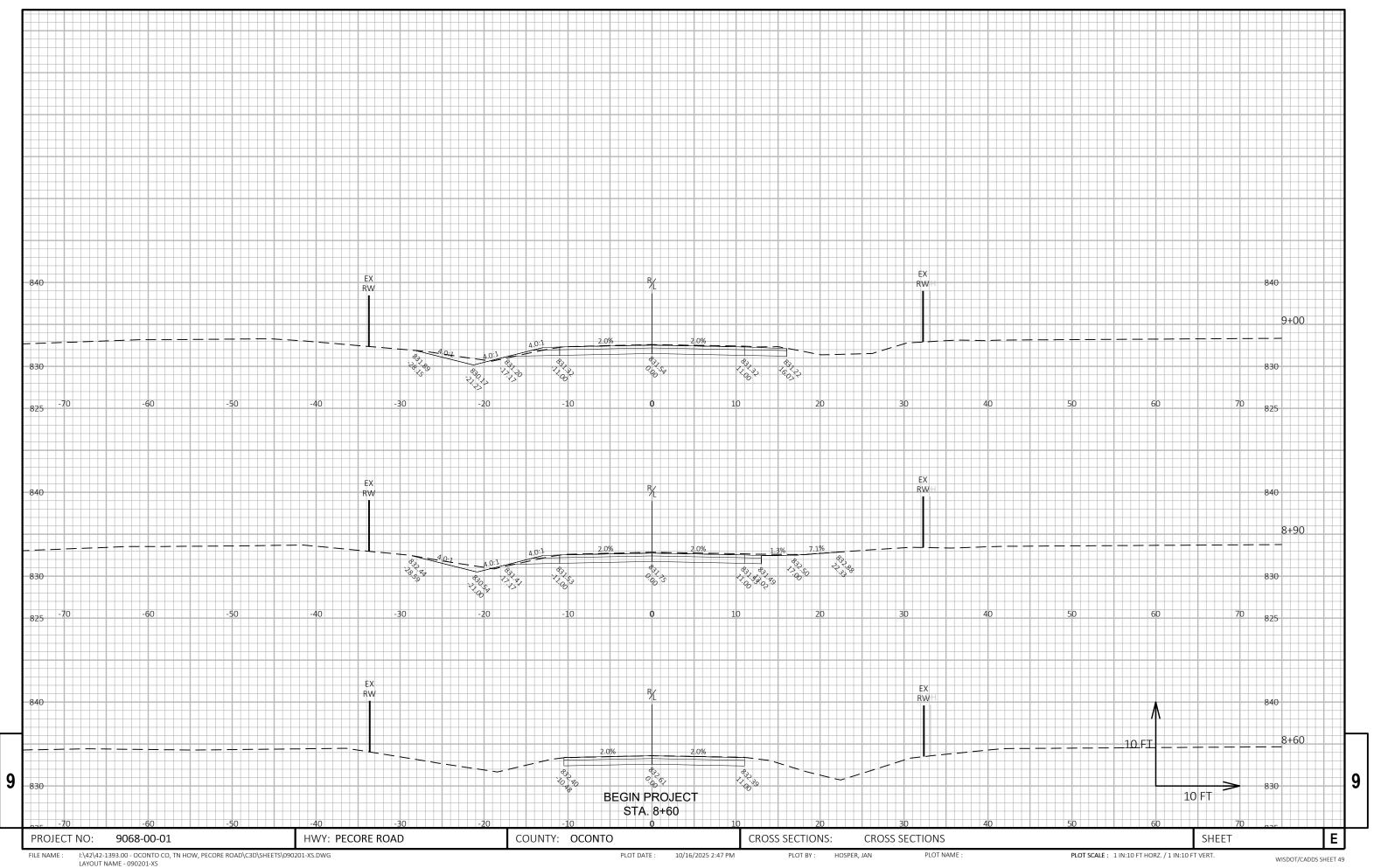
3 - Fill Does not include Unusable Pavement Exc volume

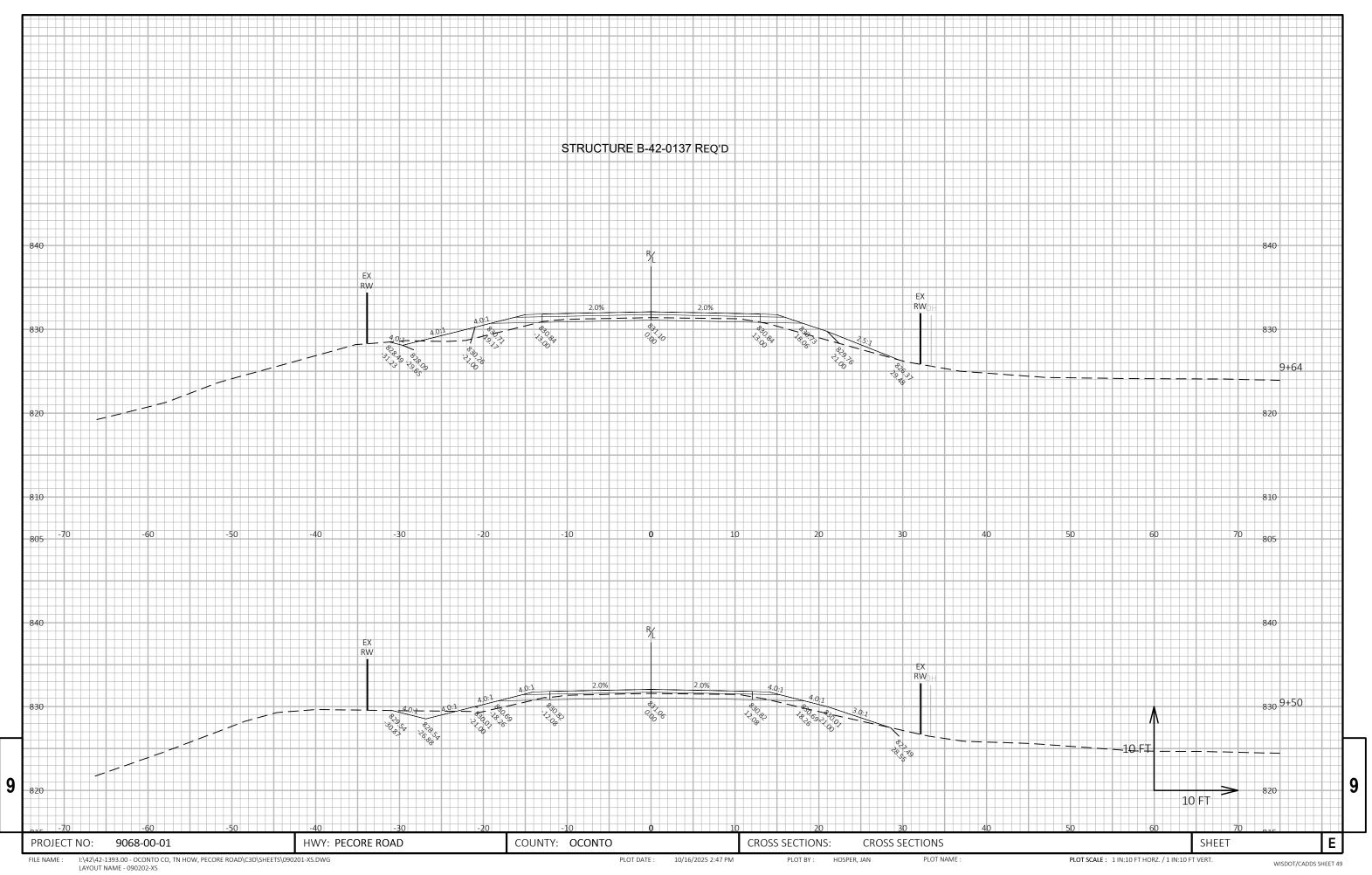
8 - Mass Ordinate Cut - Unusable Pavement Material - (Fill * Fill Factor)

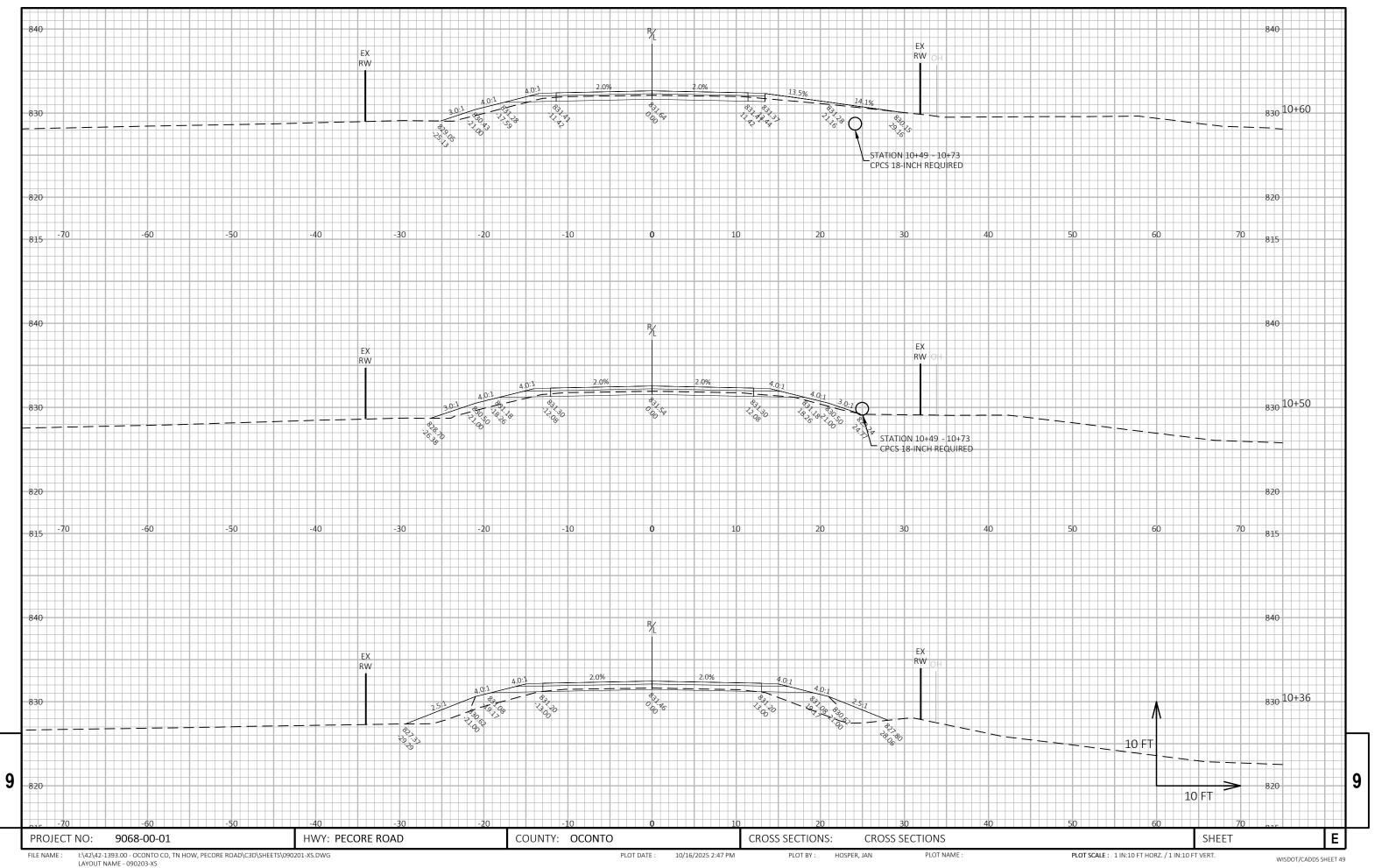
9

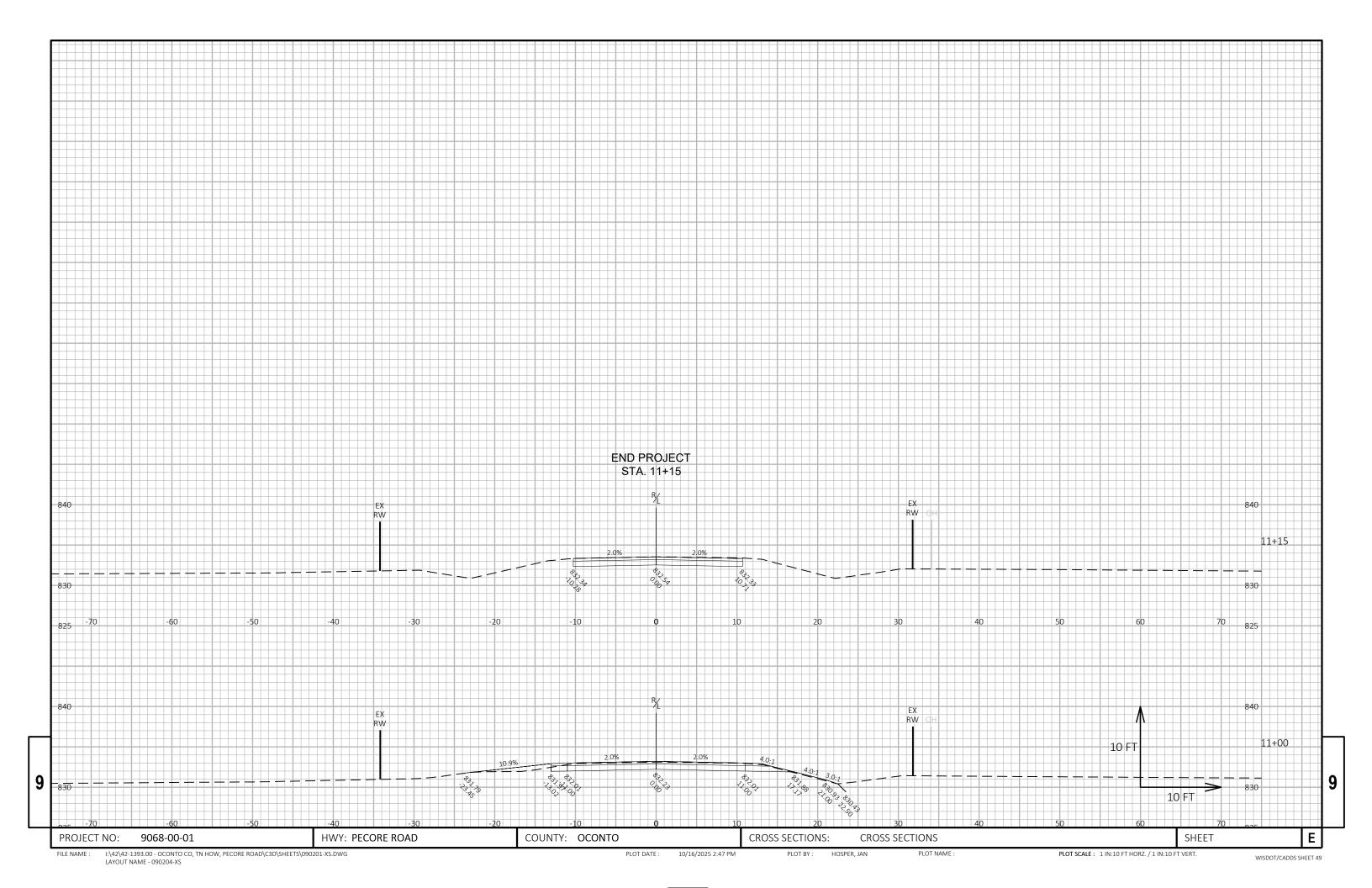
y

PROJECT NUMBER: 9068-00-01 HWY: PECORE ROAD COUNTY: OCONTO COMPUTER EARTHWORK DATA SHEET:

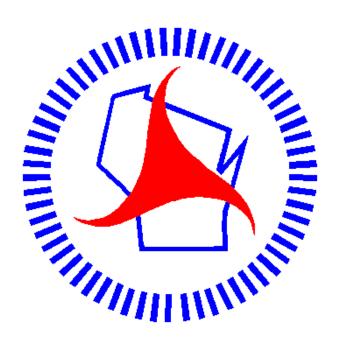








Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov