FEBRUARY 2022

Section No.

Section No.

Section No.

Section No.

Section No.

Section No.

TOTAL SHEETS =

DESIGN DESIGNATION

2022 = 88

CONVENTIONAL SYMBOLS

= 16

= 62/38

= 7.7%

= 55 = 15,000

A.A.D.T.

A.A.D.T. D.H.V.

DESIGN SPEED

CORPORATE LIMITS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

PROPERTY LINE

LOTUNE

D.D.

ORDER OF SHEETS

Typical Sections and Details Estimate of Quantities

PROJECT LOCATION

5671-00-77

Miscellaneous Quantities

Plan and Profile Standard Detail Drawings

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

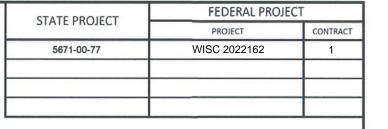
PLAN OF PROPOSED IMPROVEMENT

T OF DARLINGTON, AMES ROAD

AMES BRANCH BRIDGE B-33-0141

LOC STR LAFAYETTE COUNTY

STATE PROJECT NUMBER 5671-00-77 **END PROJECT** STA 13+41.25 Vinegar Darlington RD STRUCTURE B-33-0141 STA 12+49.98 T-02-N **BEGIN PROJECT** DUBLIN STA 11+58.71 Y = 154 512.205 X = 483 075.298 R-03-E LAYOUT HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN SCALE COORDINATE REFERENCE SYSTEM (WISCRS), LAFAYETTE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET, POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES, GRID DISTANCES TOTAL NET LENGTH OF CENTERLINE = 0.0346 MI ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED Ġ TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A



ACCEPTED FOR

LAFAYETTE COUNTY

ORIGINAL PLANS PREPARED BY



619 EAST HOXIE STREET P.O. BOX 429 SPRING GREEN, WISCONSIN 53588 PHONE (608) 588-7866 FAX (608) 588-7954



STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

REPARED BY

WESTBROOK ASSOCIATED ENGINEERS, INC WESTBROOK ASSOCIATED ENGINEERS, INC

JOHN STOLZMAN, PE

APPROVED FOR THE DEPARTMENT

DATE: 10/7/2021 Aleigha Burg, P.E. Date: 2021.10.07 08:55:38-051

PROFILE

GRADE LINE

ORIGINAL GROUND

GRADE ELEVATION

CULVERT (Profile View)

SPECIAL DITCH

UTILITIES

ELECTRIC

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

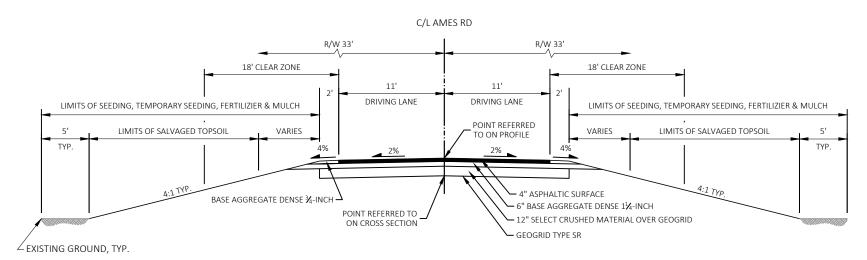
POWER POLE

STORM SEWER

MARSH OR ROCK PROFILE

(To be noted as such)

EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION

COMMUNICATIONS

LUMEN DOUG MCGOWAN

135 N. BONSON ST DARLINGTON, WI 53530

(608) 482-5377 Doug.Mcgowan1@lumen.com



CONSULTANT LIAISON

WESTBROOK ASSOCIATED ENGINEERS, INC. 619 EAST HOXIE STREET SPRING GREEN, WI 53588

ATTN: AARON PALMER, P.E. PH: (608) 588-7866 FAX: (608) 588-7954 apalmer@westbrookeng.com

CONTACTS

WDNR LIAISON

DNR SOUTH CENTRAL REGION HEADQUARTERS 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711

ATTN: SHELLEY NELSON PH: (608) 444-2835 Shelley.Nelson@wisconsin.gov

COUNTY LIAISON

LAFAYETTE COUNTY HIGHWAY DEPARTMENT 12016 HILL STREET P.O. BOX 100 DARLINGTON, WI 53530 ATTN: DAN RIELLY PH: (608) 776-4917

dan.rielly@lafayettecountywi.org

RUNOFF COEFFICIENT TABLE

					HYDRO	DLOGIC SOIL	GROUI)				
		А			В				С			D
	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			
LAND USE	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT CONCRETE		.7095										
BRICK		.8095 .7080										
DRIVES, WALKS	.7585											
ROOFS	==, =											
GRAVEL ROADS, SH	OULDE	RS				.4060)					

TOTAL PROJECT AREA = 0.28 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.17 ACRES

GENERAL NOTES

EROSION CONTROL ITEMS TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. SILT FENCE AND TURBIDITY

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TEMPORARY SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.

SEED ALL DISTURBED AREAS WITH SEED MIX NO. 75 AT AN EQUIVALENT RATE OF 0.7 LBS PER 1000 SF. OVERSOW ALL DISTURBED AREAS WITH SEED MIX NO. 30 AT A RATE OF 2 LBS PER 1000 SF.

ALL RIPRAP ABOVE THE "ORDINARY HIGH WATER MARK" (OHWM) MUST BE TOP-DRESSED WITH 6-INCHES OF SALVAGED TOPSOIL AND SEEDED WITH SEED MIX NO. 75 AND SEED MIX NO. 30.

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

WETLANDS ARE PRESENT IN THE LOCATIONS SHOWN ON THE PLANS. DO NOT OPERATE MACHINERY OUTSIDE OF THE SLOPE INTERCEPTS

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

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

D.O.T. MONUMENT IS TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR IN THE SAME WING THAT THE PROPOSED NAME PLATE WILL BE PLACED. AS DIRECTED BY THE ENGINEER.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), LAFAYETTE COUNTY, HORIZONTAL DATUM NAD83 (2011), ELEVATION DATUM NAVD88 (2012).

THE 4-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED USING A 2 1/4-INCH LOWER LAYER OF 19 MM NOMINAL SIZE AGGREGATE AND A 1 3/4-INCH UPPER LAYER OF 12.5 MM NOMINAL SIZE AGGREGATE.

ASPHALTIC SURFACE CALCULATIONS ARE BASED ON 112 LB/SY/IN.

STANDARD ABBREVIATIONS

PROJECT NO: 5671-00-77 HWY: AMES ROAD COUNTY: LAFAYETTE **GENERAL NOTES & TYPICAL SECTIONS** G:\00-PROJECT FILES\2021\21109 5671-00-07 AMES RD, B-33-0141, LAFAYETTE COUNTY\0-CAD\SHEETSPLAN\020101 GN.DWG FILE NAME : 10/4/2021 9:54 AM PLOT BY:

LAYOUT NAME - 020101_gn

PLOT DATE:

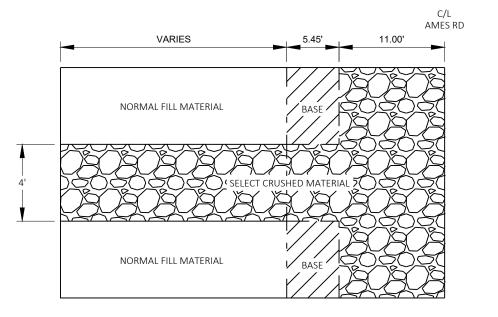
ERIK MEYER

PLOT NAME

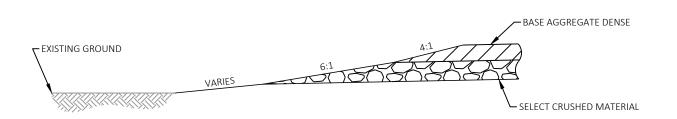
SHEET

WISDOT/CADDS SHEET 42

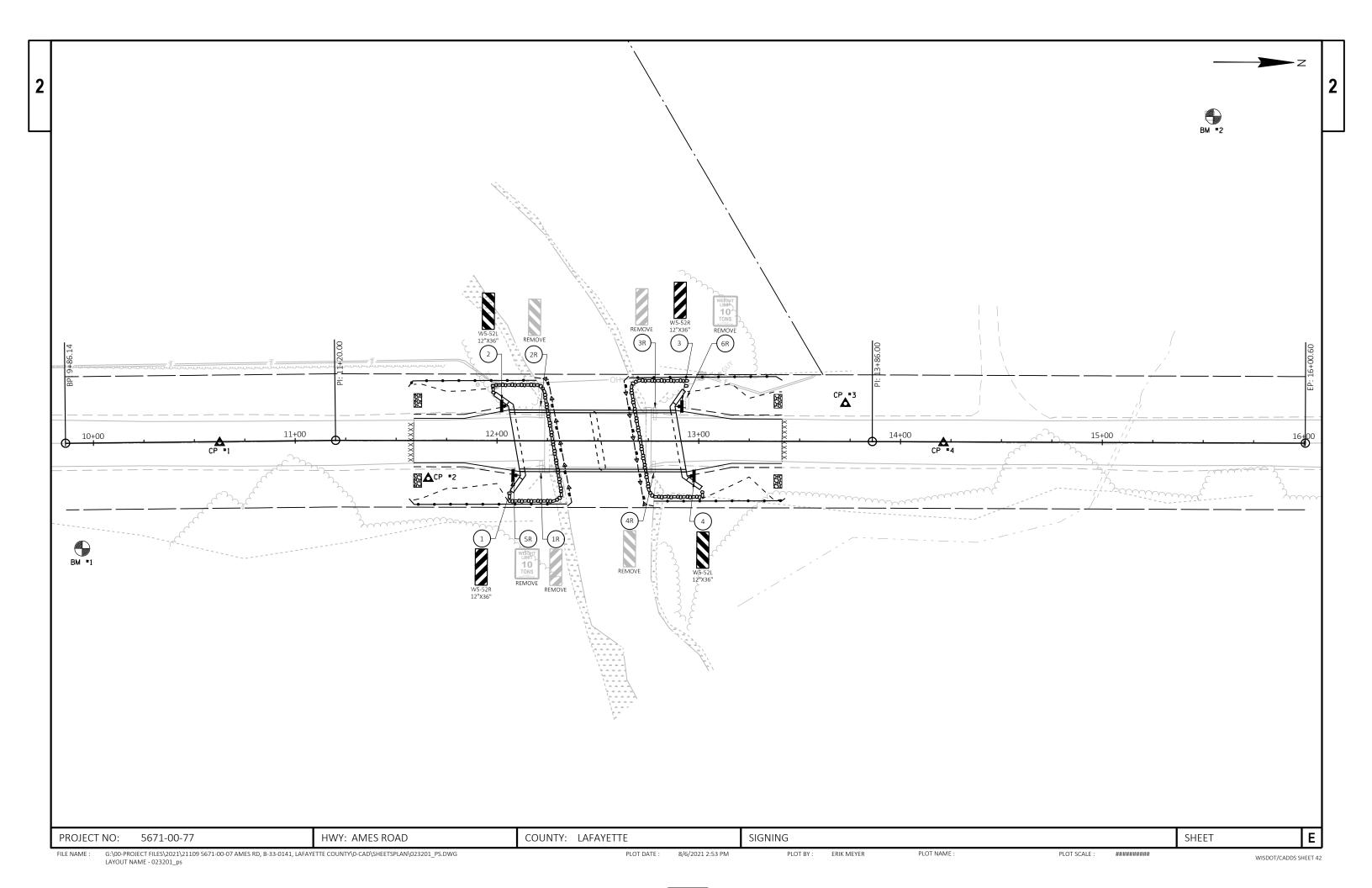
 $oxed{2}$

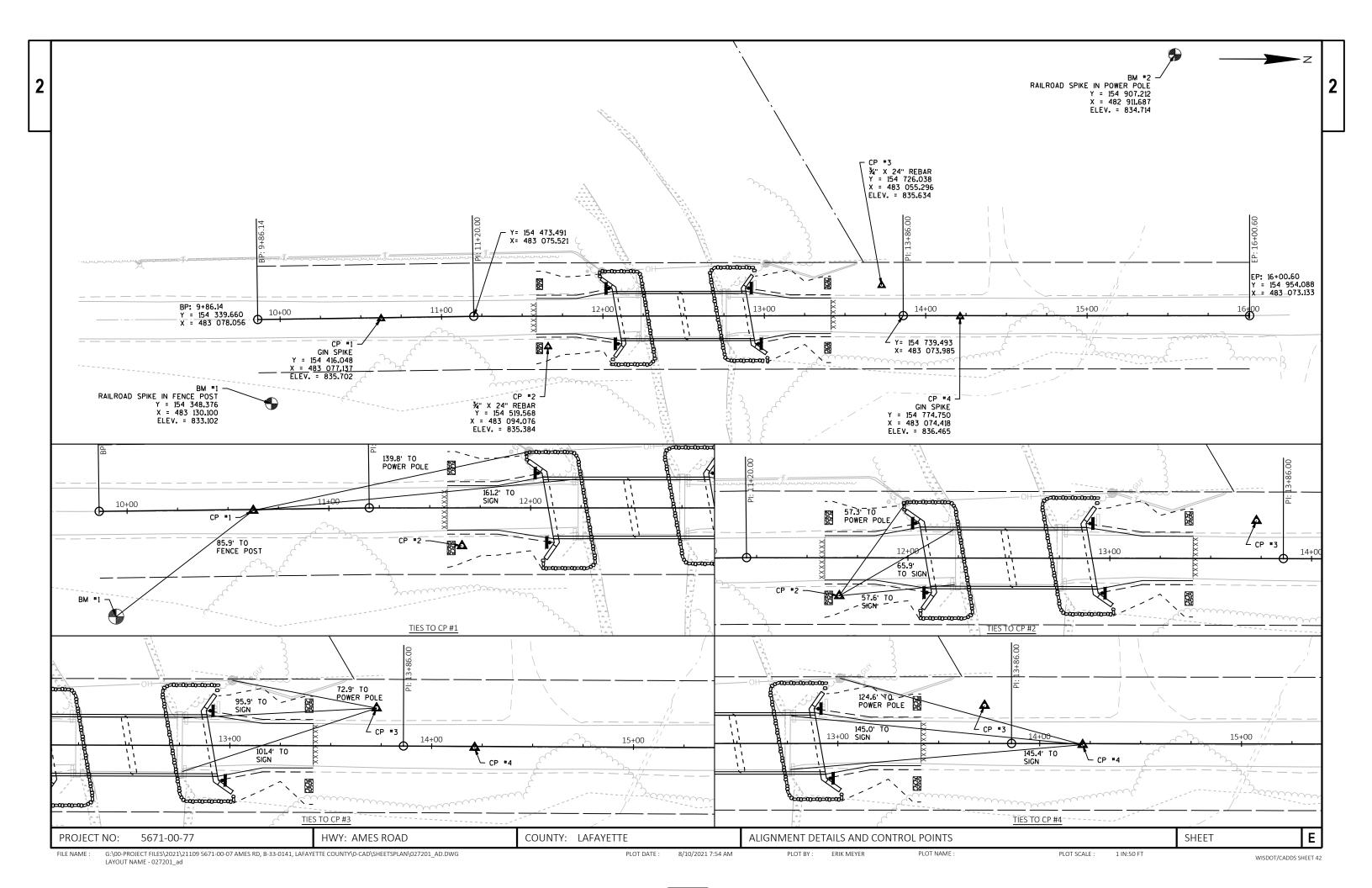


RELIEF TRENCH PLAN VIEW



RELIEF TRENCH PROFILE VIEW





3

					5671-00-77
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	2.000	2.000
0004	201.0205	Grubbing	STA	2.000	2.000
0006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-33-0173	EACH	1.000	1.000
8000	205.0100	Excavation Common	CY	212.000	212.000
0010	206.1000	Excavation for Structures Bridges (structure) 01. B-33-0141	LS	1.000	1.000
0012	210.1500	Backfill Structure Type A	TON	300.000	300.000
0014	213.0100	Finishing Roadway (project) 01. 5671-00-77	EACH	1.000	1.000
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	14.000	14.000
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	116.000	116.000
0020	312.0110	Select Crushed Material	TON	206.000	206.000
0022	455.0605	Tack Coat	GAL	20.000	20.000
0024	465.0105	Asphaltic Surface	TON	62.000	62.000
0026	502.0100	Concrete Masonry Bridges	CY	226.000	226.000
0028	502.3200	Protective Surface Treatment	SY	358.000	358.000
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	7,990.000	7,990.000
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	37,280.000	37,280.000
0034	513.4061	Railing Tubular Type M	LF	170.000	170.000
0036	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000
0038	550.0020	Pre-Boring Rock or Consolidated Materials	LF	72.000	72.000
0040	550.2104	Piling CIP Concrete 10 3/4 X 0.25-Inch	LF	350.000	350.000
0042	550.2144	Piling CIP Concrete 14 X 0.25-Inch	LF	150.000	150.000
0044	606.0300	Riprap Heavy	CY	172.000	172.000
0046	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	150.000	150.000
0048	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5671-00-77	EACH	1.000	1.000
0050	619.1000	Mobilization	EACH	1.000	1.000
0052	624.0100	Water	MGAL	1.400	1.400
0054	625.0500	Salvaged Topsoil	SY	155.000	155.000
0056	627.0200	Mulching	SY	450.000	450.000
0058	628.1504	Silt Fence	LF	375.000	375.000
0060	628.1520	Silt Fence Maintenance	LF	600.000	600.000
0062	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0064	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0066	628.6005	Turbidity Barriers	SY	178.000	178.000
0068	629.0210	Fertilizer Type B	CWT	0.350	0.350
0070	630.0130	Seeding Mixture No. 30	LB	12.000	12.000
0070	630.0175	Seeding Mixture No. 75	LB	8.000	8.000
0074	630.0200	Seeding Temporary	LB	20.000	20.000
0074	630.0500	Seed Water	MGAL	9.500	9.500
0078	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
080	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0082	638.2602	Removing Signs Type II	EACH	6.000	6.000
0082	638.3000	Removing Small Sign Supports	EACH	6.000	6.000
0086	642.5001	Field Office Type B	EACH	1.000	1.000
0088		••	DAY	1,840.000	
	643.0420	Traffic Control Marriag Lights Type A			1,840.000
0090	643.0705	Traffic Control Warning Lights Type A	DAY	3,680.000	3,680.000
0092	643.0900	Traffic Control Signs	DAY	1,472.000	1,472.000
0094	643.5000	Traffic Control	EACH	1.000	1.000
0096	645.0111	Geotextile Type DF Schedule A	SY	68.000	68.000
0098	645.0120	Geotextile Type HR	SY	303.000	303.000

Estimate Of Quantities

5671-00-77

Page

Line	Item	Item Description	Unit	Total	Qty
0100	645.0220	Geogrid Type SR	SY	314.000	314.000
0102	650.4500	Construction Staking Subgrade	LF	100.000	100.000
0104	650.5000	Construction Staking Base	LF	100.000	100.000
0106	650.6500	Construction Staking Structure Layout (structure) 01. B-33-0141	LS	1.000	1.000
0108	650.9910	Construction Staking Supplemental Control (project) 01. 5671-00-77	LS	1.000	1.000
0110	650.9920	Construction Staking Slope Stakes	LF	100.000	100.000
0112	690.0150	Sawing Asphalt	LF	42.000	42.000
0114	715.0502	Incentive Strength Concrete Structures	DOL	1,344.000	1,344.000
0116	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 12+50	EACH	1.000	1.000
0118	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0120	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0122	SPV.0180	Special Special 01. Salvaged Topsoil Over Riprap	SY	238.000	238.000

NOTE: ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

EARTHWORK SUMMARY

STATION	- STATION	same orderes enalistatement	COMMON EXCAVATION (1) (ITEM # 205.0100) CUT (2)		AVAILABLE	UNEXPANDED FILL	EXPANDED FILL (5) FACTOR 1.25	MASS ORDINATE +/- (6)	BORROW (ITEM # 208.0100)	COMMENT:
11+59	- 12+09	SOUTH APPROACH	111	19	92	0	0	92	0	
12+91	- 13+41	NORTH APPROACH	101	19	82	0	0	82	0	
		TOTALS	212	38	174	0	0	174	0	

- 1) COMMON EXCAVATION IS THE CUT. ITEM # 205.0100.
- 2) SALVAGED/UNUSABLE MATERIAL IS INCLUDED IN CUT.
- 3) SALVAGED/UNUSABLE MATERIAL INCLUDES ASPHATLIC PAVEMENT.
- 4) AVAILABLE MATERIAL = CUT SALVAGED/UNUSABLE MATERIAL
- 5) EXPANDED FILL FACTOR = 1.25: EXPANDED FILL = (UNEXPANDED FILL)*1.25
- 6) THE MASS ORDINATE + OR CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL IN THE DIVISION.

CLEARING AND GRUBBING		BASE A	GGREGATE	DENSE				ASPI	HALTIC ITE	<u>MS</u>	
201.0105 201.0205 CLEARING GRUBBING STATION - STATION LOCATION (STA) (STA) 12+00 - 14+00 MAINLINE 2 2	STATION - STATIO 11+59 - 12+09 12+91 - 13+41	3/4 N LOCATION (MAINLINE	4-INCH 1 1/ BASE E TON) (*	5.0120 312.0110 4-INCH SELECT CRUSHE BASE MATERIAL TON) (TON) 58 103 58 103	624.0100	EOGRID TYPESR (SY) 157 157	11+59	- STATION - 12+09 - 13+41	LOCATION MAINLINE MAINLINE	455.0600 TACK COAT (GAL) 10	465.0105 ASPHALTIC SURFACE (TON) 31 31
TOTALS 2 2		TOTALS	14	116 206	1.4	314	12.51	20112	TOTALS	20	62
MOBILIZATIONS EROSION CONTROL 628.1910 628.1905 MOBILIZATIONS MOBILIZATIONS EMERGENCY EROSION CONTROL EROSION CONTROL		99 (1709) 277 (270)	ON - STATION 59 - 12+09	SILT FENCE 628.1: SILT FENCE FENCE LOCATION (LF MAINLINE, LT 67	SILT FENCE CE MAINTENANCE (LF)	-		LC	OCATION	628.6005 (SY)	
LOCATION (EACH) (EACH) ID 5671-00-77 3 2	-	11+5	59 - 12+09 91 - 13+41	MAINLINE, RT 82 MAINLINE, LT 82	164				APPROACH APPROACH	96 82	
TOTALS 3 2	-	12+5	91 - 13+41	MAINLINE, RT 69 UNDISTRIBUTED 75 TOTALS 375		-		Т	OTALS	178	

NOTE:
ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED.

STATION	-	STATION	LOCATION	625.0500 SALVAGED TOPSOIL (SY)	627.0200 MULCHING (SY)	629.0210 FERTILIZER TYPE B (CWT)	630.0130 SEEDING MIX NO. 30 (LB)	630.0175 SEEDING MIX NO. 75 (LB)	630.0200 SEEDING TEMPORARY (LB)	630.0500 SEED WATER (MGAL)	SPV.0180.01 SALVAGED TOPSOIL OVER RIPRAP (SY)
11+59		12+09	MAINLINE, LT	34	34	0.03	1	1	2	0.9	
11+59	-	12+09	MAINLINE, RT	33	33	0.03	1	1	2	0.9	
12+91		13+41	MAINLINE, LT	36	36	0.04	1	1	2	0.7	
12+91		13+41	MAINLINE, RT	20	20	0.02	1	1	1	0.9	
			SOUTH RIPRAP		115	0.07	2	1	4	2.1	115
			NORTH RIPRAP		123	0.08	3	1	4	2.0	123
			UNDISTRIBUTED	32	89	0.08	3	2	5	2.0	
			TOTALS	155	450	0.35	12	8	20	9.5	238

FINISHING ITEMS

STATION	LOCATION	SIGN NUMBER	SIGN CODE	634.0612 POSTS WOOD 4X6-INCH X 12-FT (EACH)	637.2230 SIGNS TYPE II REFLECTIVE TYPE F (SF)	638.2602 REMOVING SIGN TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	NOTES
12+04	LT	2	W5-52L	1	3	-		BRIDGE HASH MARKS
12+09	RT	1	W5-52R	1	3			BRIDGE HASH MARKS
12+10	RT	5R				1	1	LOAD POSTING
12+23	LT	2R	W5-52L			1	1	BRIDGE HASH MARKS
12+23	RT	1R	W5-52R			1	1	BRIDGE HASH MARKS
12+77	LT	3R	W5-52R			1	1	BRIDGE HASH MARKS
12+77	RT	4R	W5-52L			1	1	BRIDGE HASH MARKS
12+90	LT	3	W5-52R	1	3			BRIDGE HASH MARKS
12+93	LT	6R		-		1	1	LOAD POSTING
12+96	RT	4	W5-52L	1	3	=		BRIDGE HASH MARKS
			TOTAL	4	12		6	

SIGNING

TRAFFIC CONTROL

		64	3.0420	64	3.0705			
		TRAFFI	C CONTROL	TRAFFI	CCONTROL	64	3.0900	643.5000
		BAR	RICADES	WARN	ING LIGHTS	TRAFFI	C CONTROL	TRAFFIC
		T	YPEIII	Т	YPEA	S	IGNS	CONTROL
LOCATION	DURATION	(NO.)	(DAY)	(NO.)	(DAY)	(NO.)	(DAY)	(EACH)
NORTH APPROACH	92	9	828	18	1656	7	644	1
SOTH APPROACH	92	9	828	18	1656	7	644	
UNDISTRIBUTED	92	2	184	4	368	2	184	2.1
	TOTAL	20	1840	40	3680	16	1472	1

PLACE TRAFFIC CONTROL IN ACCORDANCE WITH SDD 15C2.
PLACEMENT SUBJECT TO ENGINEER APPROVAL.

FILE NAME :

CONSTRUCTION STAKING

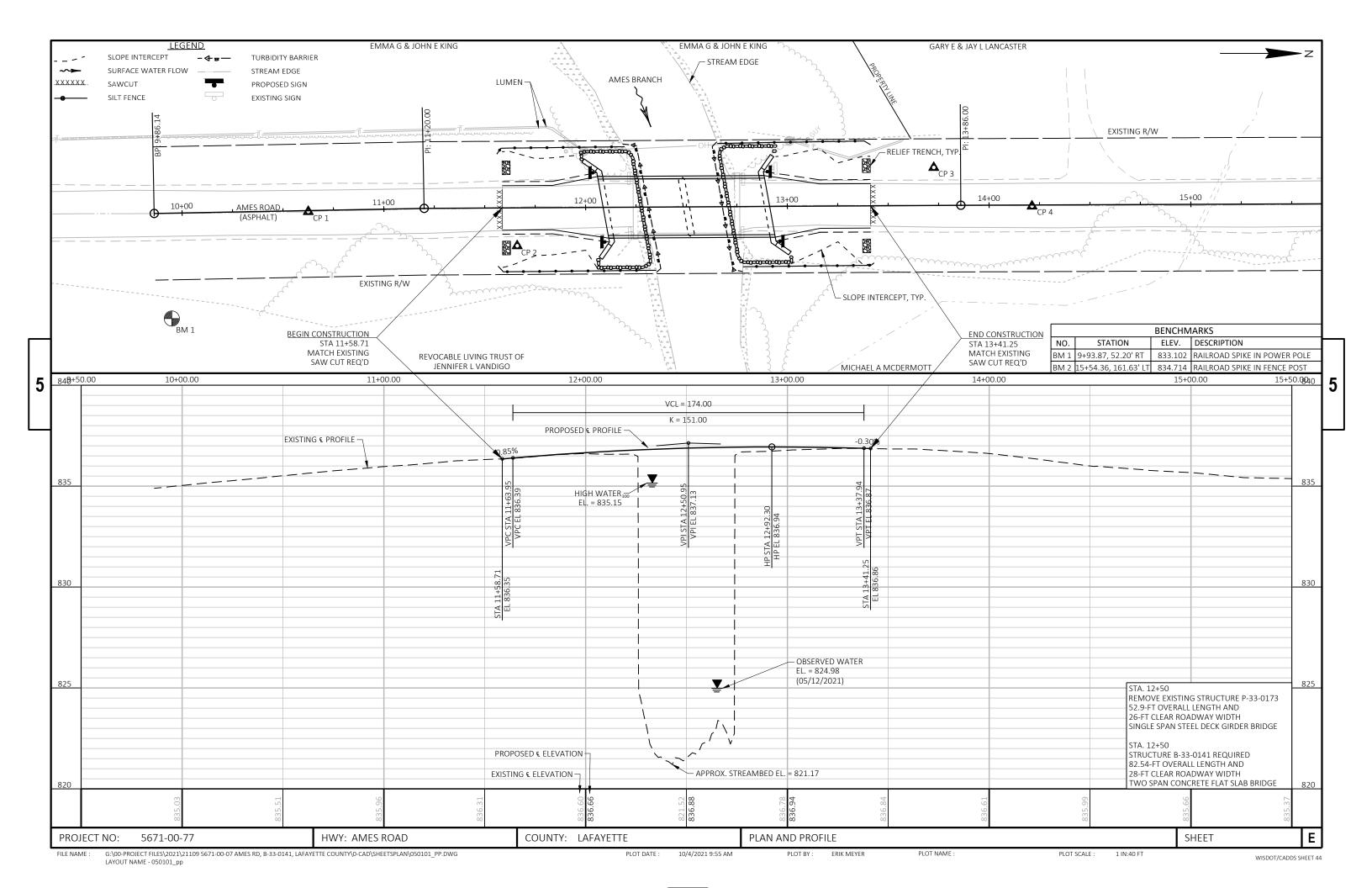
						650,6500	650.9910	650.992
				650.4500	650.5000			SLOPE
				SUBGRADE	BASE	01. B-60-0153	CONTROL	STAKES
STATION	1020	STATION	LOCATION	(LF)	(LF)	(LS)	(LS)	(LF)
11+59	-	12+09	MAINLINE	50	50			50
12+91	107.	13+41	MAINLINE	50	50			50
	-		PROJECT			1	1	
			TOTALS	100	100	1*	1	100

* CATEGORY 0020

SAWING ASPHALT

STATION	LOCATION	690.0150 (LF)
11+59	MAINLINE	21
13+41	MAINLINE	21
	TOTAL	42

PROJECT NO: 5671-00-77 HWY: AMES ROAD COUNTY: LAFAYETTE MISCELLANEOUS QUANTITIES SHEET **E**



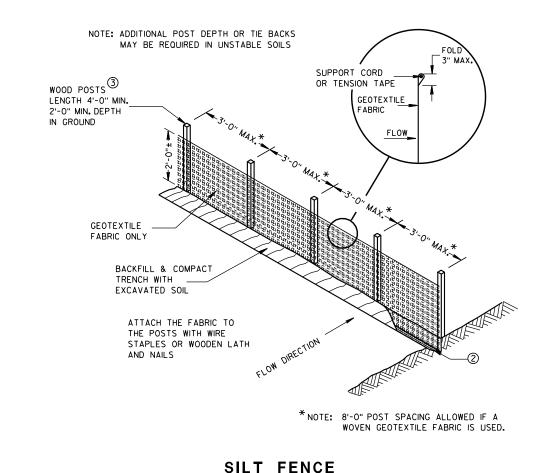
Standard Detail Drawing List

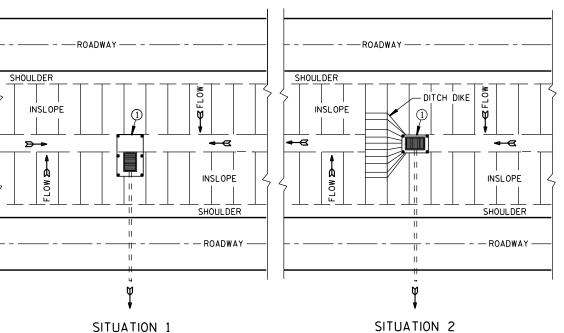
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRI CADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

6

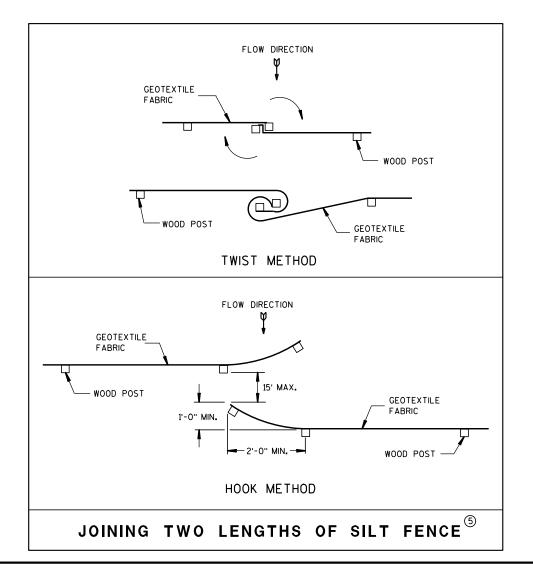
_

TYPICAL APPLICATION OF SILT FENCE





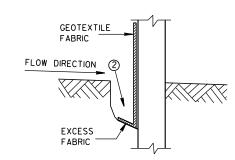
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



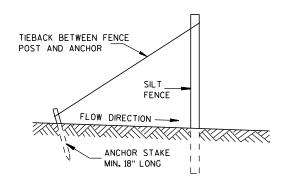
GENERAL NOTES

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

- ① 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



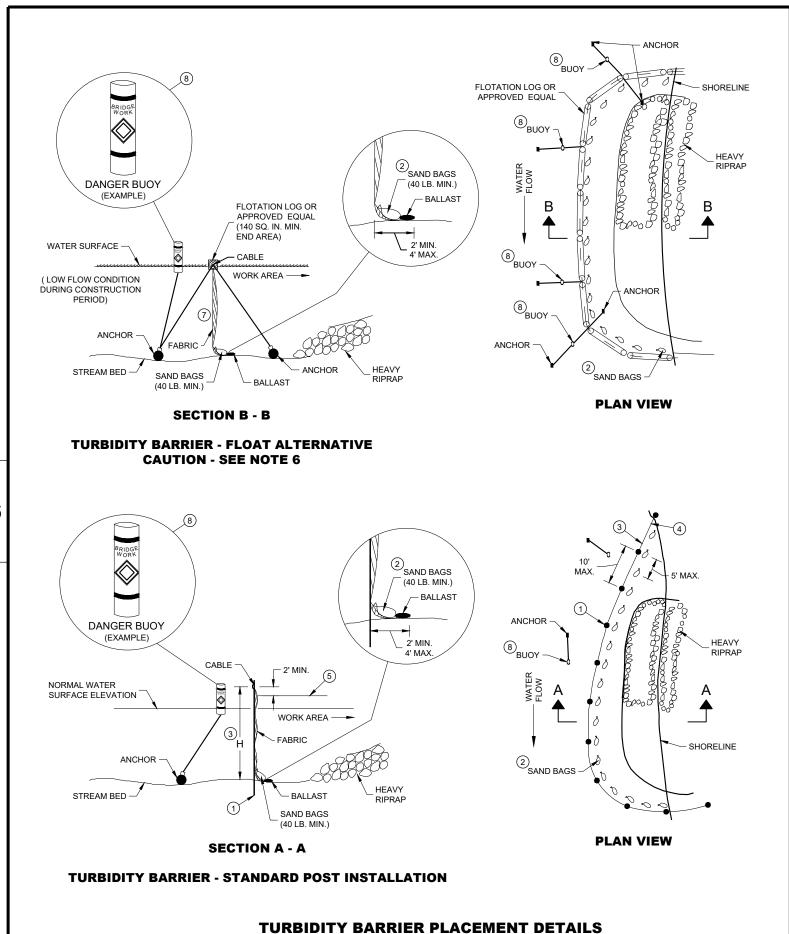
SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

SILT FENCE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED 4-29-05 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

Ш

တ ∞ Ω

6

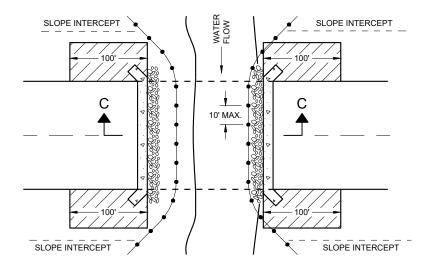


GENERAL NOTES

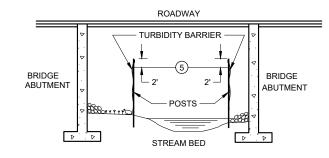
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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



PLAN VIEW



SECTION C - C

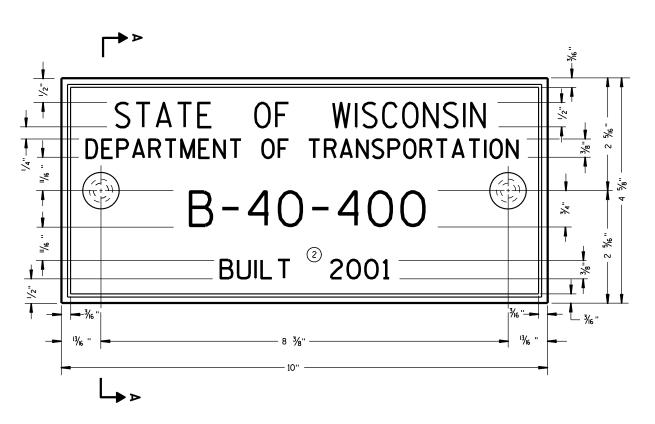
TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ∞

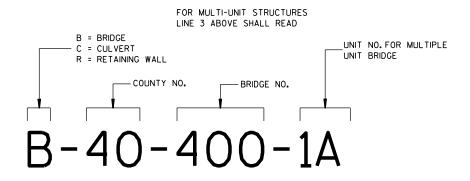
APPROVED	
6/4/02	/S/ Beth Cannestra
DATE	CHIEF ROADWAY DEVELOPMENT
F1 0.474	ENGINEER





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



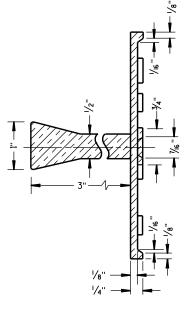
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

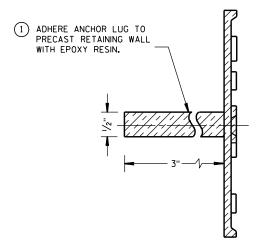
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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)

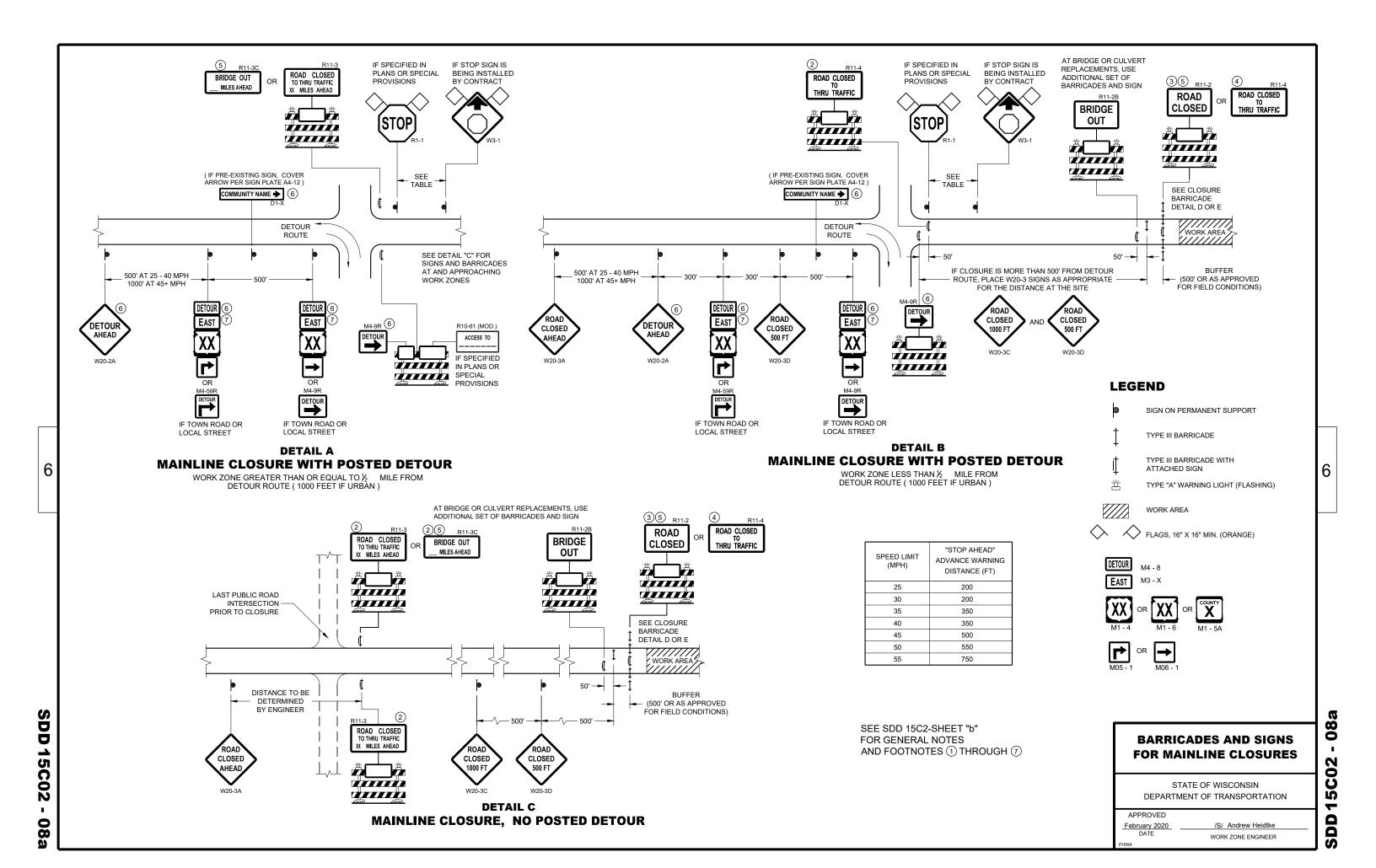
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

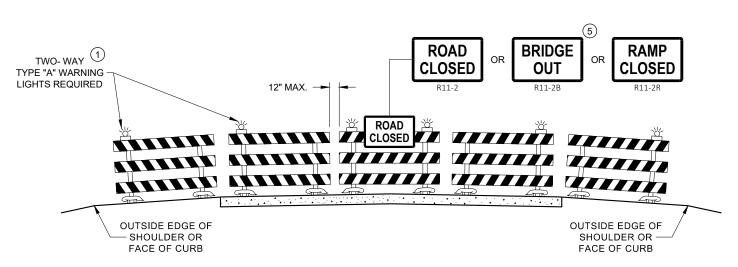
3-10

APPROVED

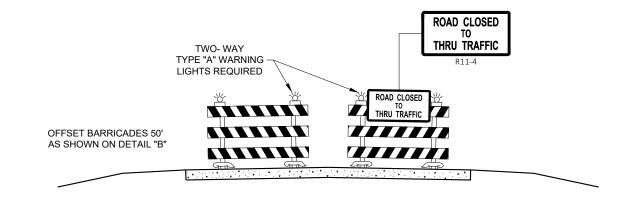
3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER





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 SUPPORTS

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"

- 1 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 WITHOUT 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 SIGNS AS SHOWN.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

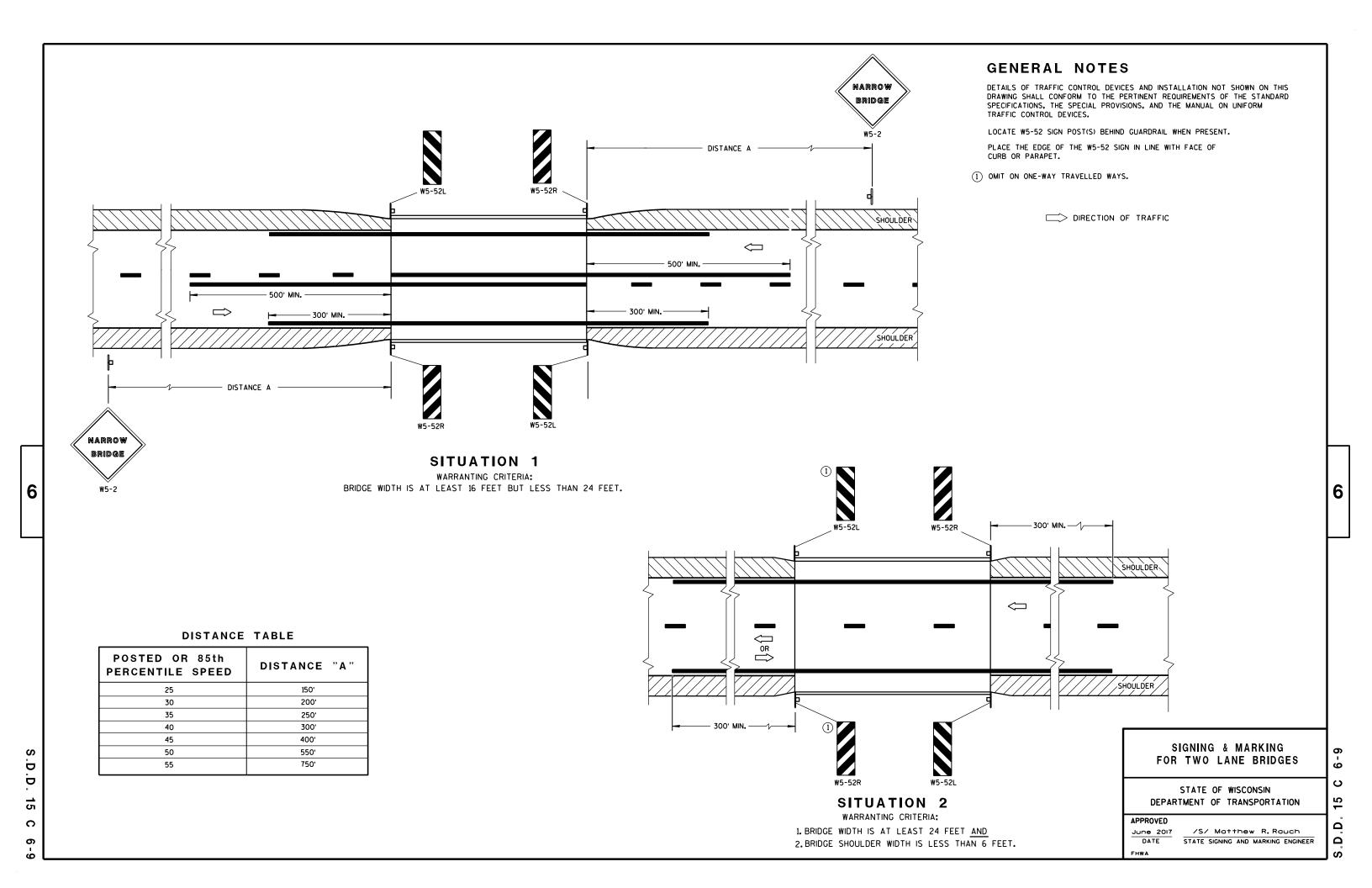
APPROVED

February 2020 ____

/S/ Andrew Heidtke
WORK ZONE ENGINEER

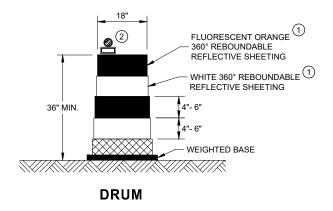
D15C0

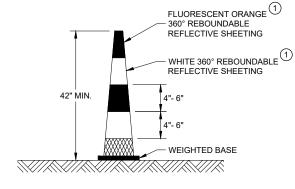
0



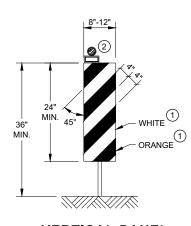
GENERAL NOTES

- (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.

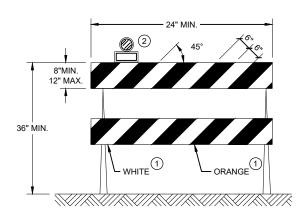




42" CONE DO NOT USE IN TAPERS ½ SPACING OF DRUMS

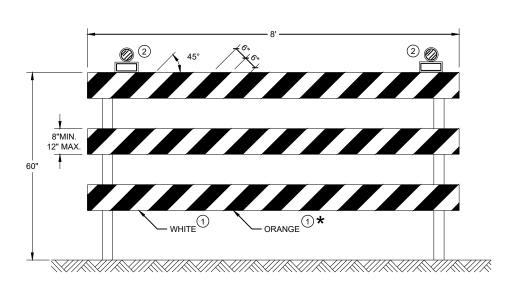


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



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

<u>60</u>

15C

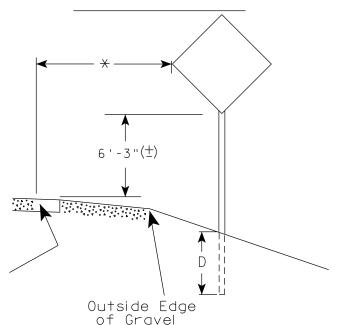
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
AFFROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
EHWA	

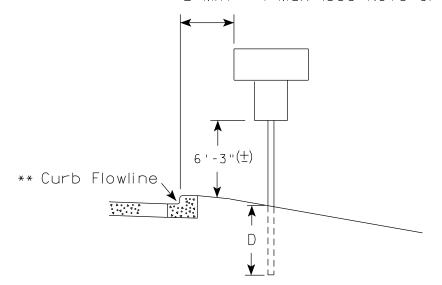
2' Min - 4' Max (See Note 6)

The state of t

White Edgeline Location



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



White Edgeline Location

geline

Outside Edge
of Gravel

** 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

HWY:

* 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.

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). 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. For expressways and freeways, mounting height is 7'- 3" (\pm) or 6'-3" (\pm) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ($\frac{+}{2}$).
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

SHEET NO:

Ε

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A43.dgn

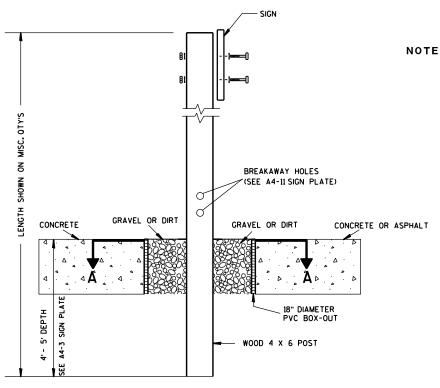
measured from the flow line.

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY : mscj9h

PLOT NAME :

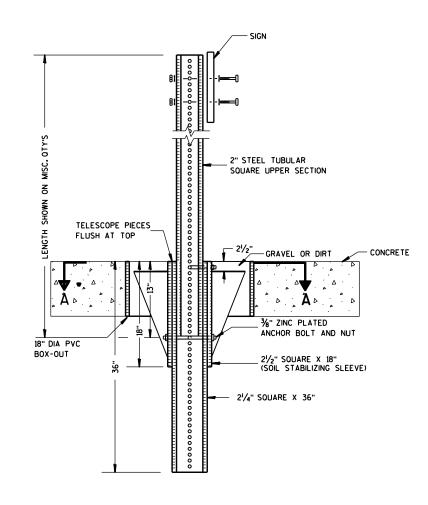
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



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.



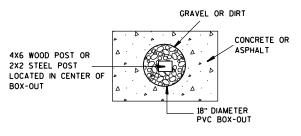
ELEVATION VIEW

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

ELEVATION VIEW

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

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

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

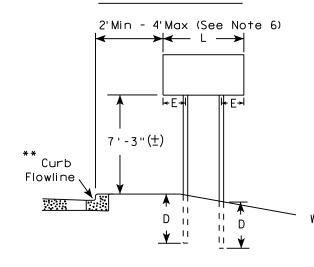
For State Traffic Engineer

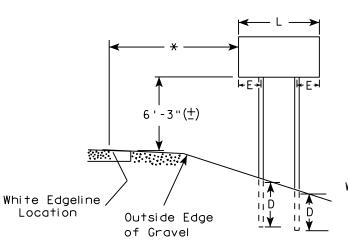
DATE 8/21/17 PLATE NO. A4-4.15

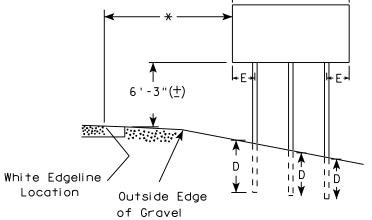
SHEET NO:

URBAN AREA

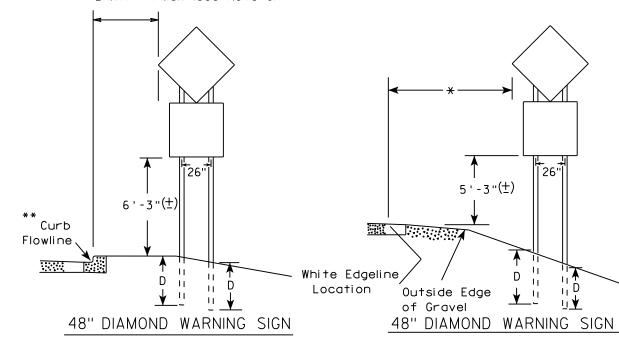
RURAL AREA (See Note 3)







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



	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRED	
	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''									

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

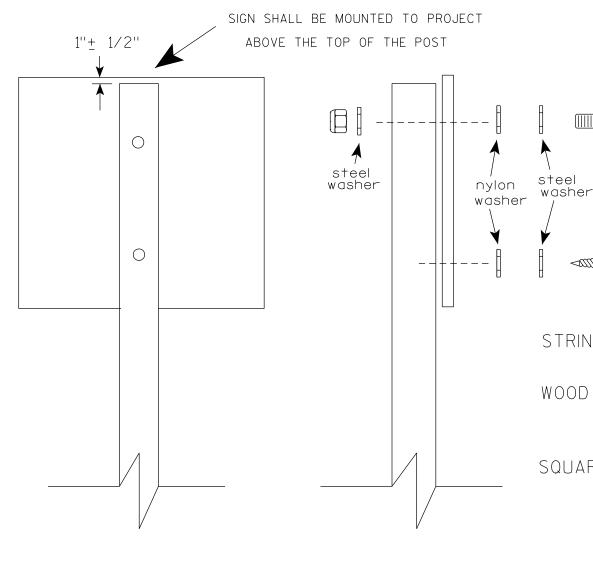
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

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

PLOT SCALE: 108.188297:1.000000

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

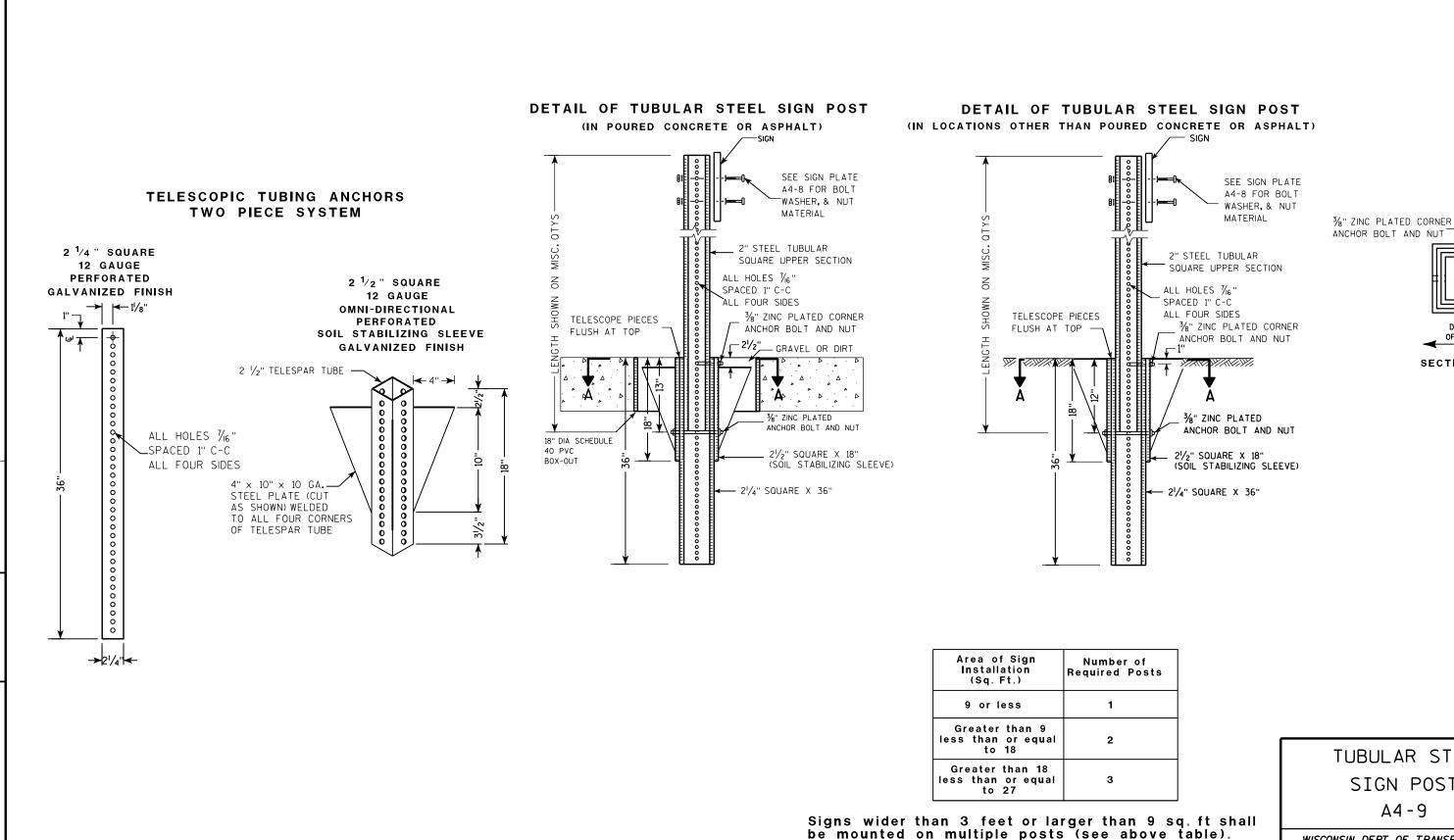
PLATE NO. <u>A4-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

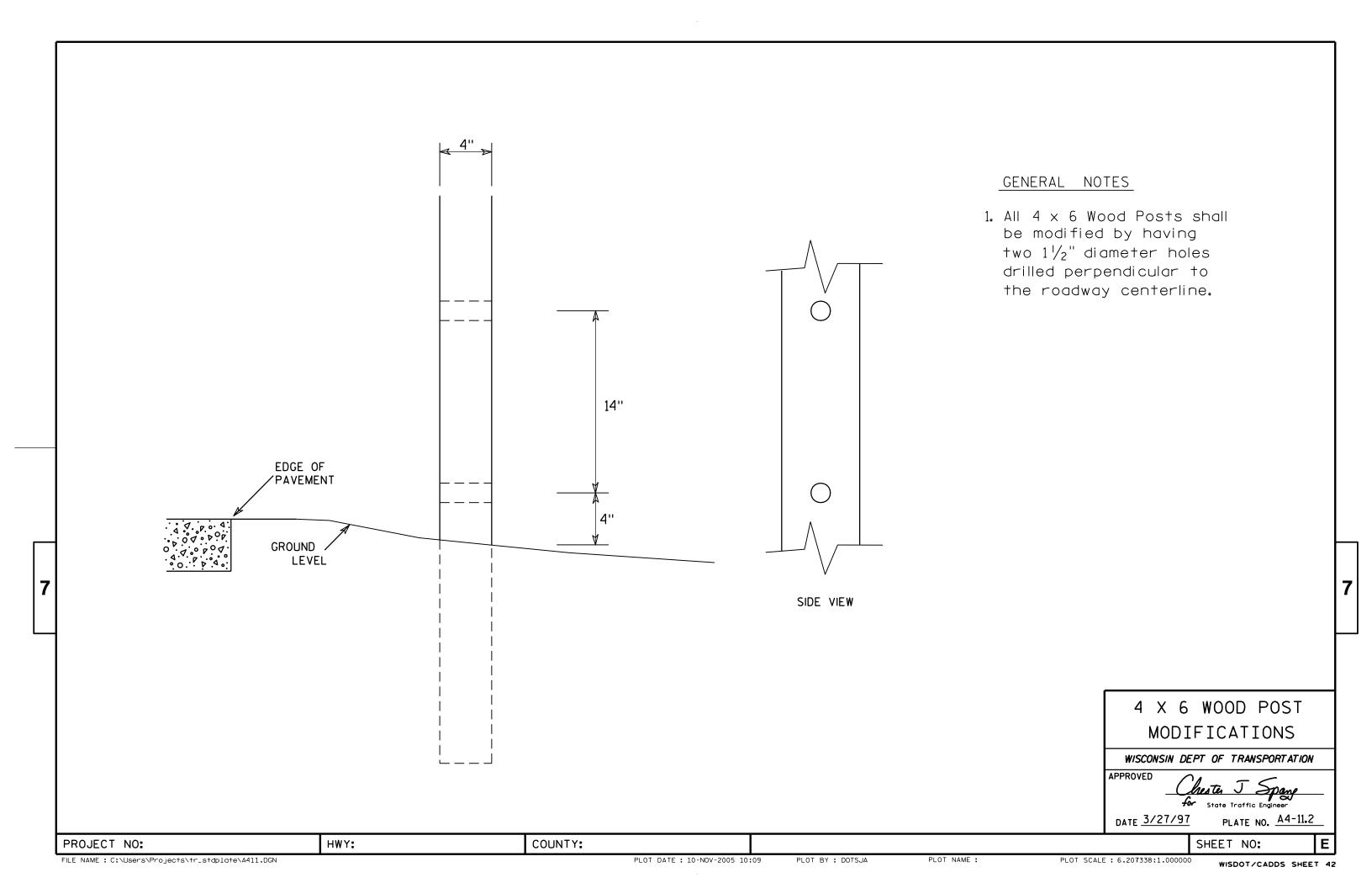
COUNTY:

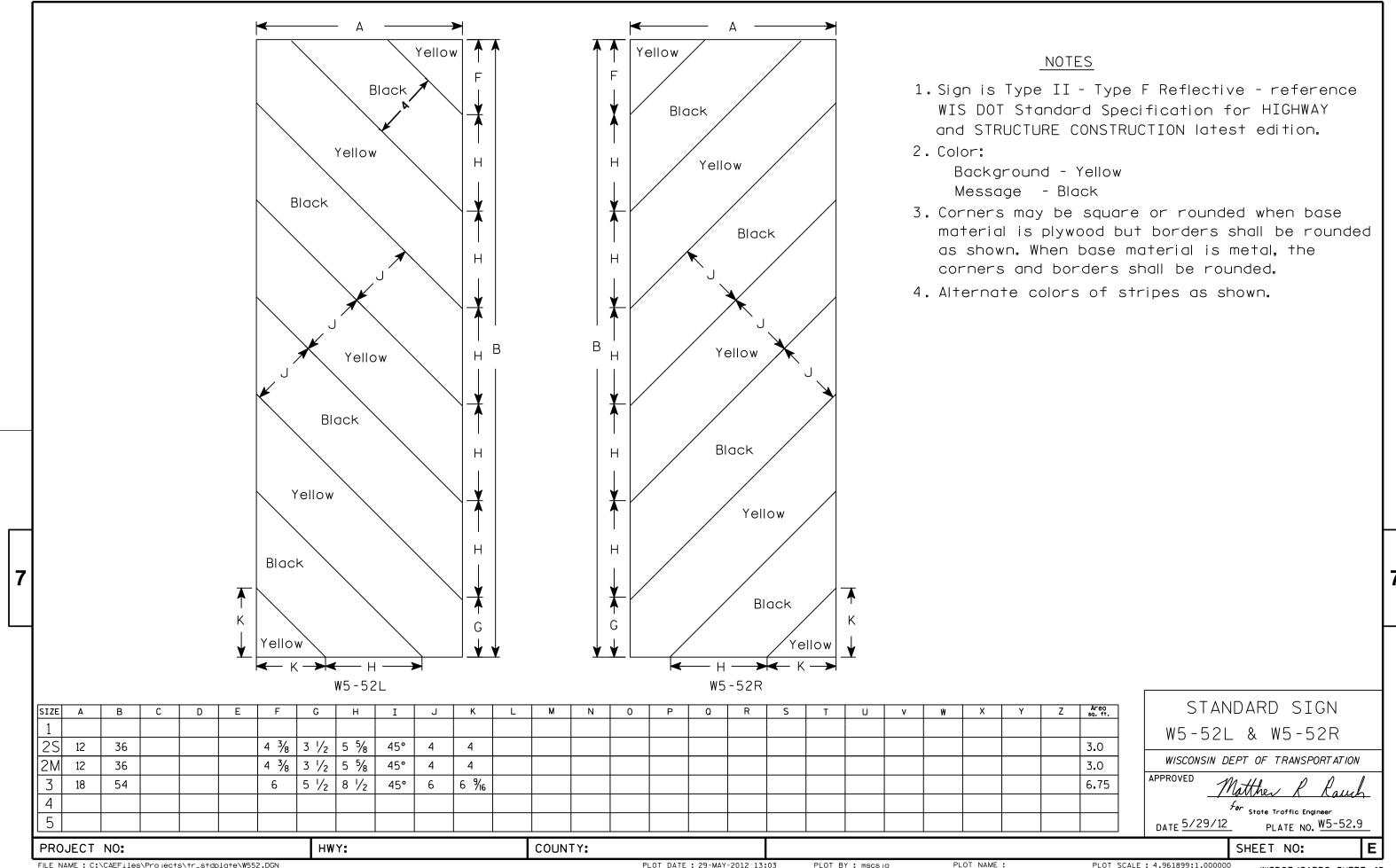
PLOT NAME :

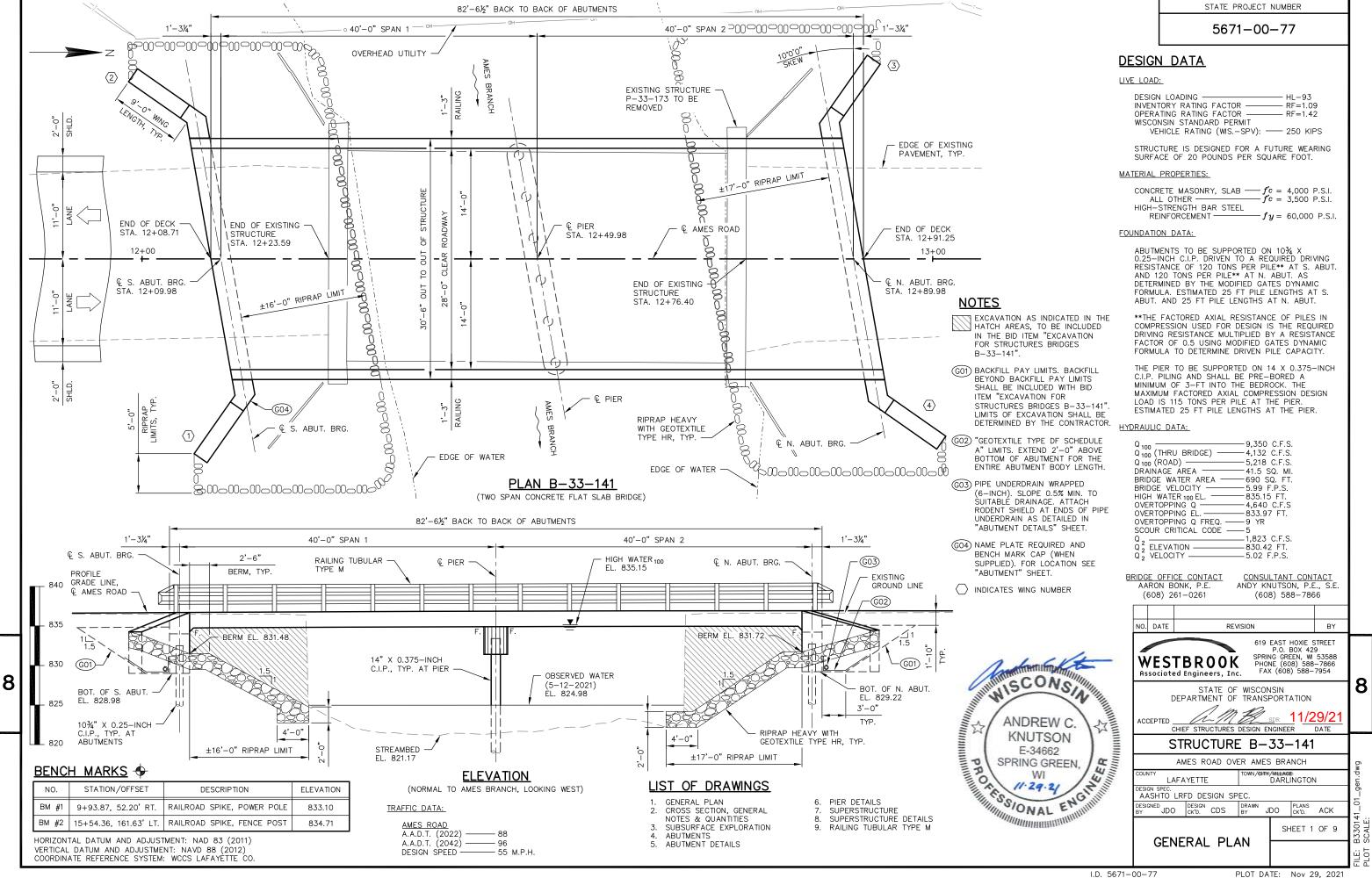
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

SECTION A-A







GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

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

BEVEL EXPOSED EDGES OF CONCRETE $\ensuremath{\ensuremath{3\!\!4}}\xspace$ " UNLESS OTHERWISE NOTED.

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

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEDING PLAN QUANTITIES SHALL BE INCLUDED WITH THE BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B—33—141".

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

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE SUPERSTRUCTURE SLAB PER THE STANDARD SPECIFICATION.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-33-141" SHALL BE THE FXISTING GROUND LINE

THE EXISTING STREAM BED SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIER.

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

5671-00-77

STATE PROJECT NUMBER

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

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

DO NOT PLACE FILL ABOVE 3'-0" FROM BOTTOM OF ABUTMENT UNTIL SUPERSTRUCTURE IS IN

A MINIMUM OF 3-FEET OF PRE-BORE AT THE PIER INTO SUITABLE BEDROCK IS REQUIRED IF THE MINIMUM 10-FEET OF PILE PENETRATION INTO NATURAL GROUND CANNOT BE ACHIEVED. THE CONTRACTOR AND THE CONSTRUCTION ENGINEER SHOULD ANTICIPATE VARIABLE PILE PENETRATION AND POSSIBLE ADDITIONAL LOCATIONS OF PEF-BORING

PILES PLACED IN PREBORED HOLES CORED INTO ROCK DO NOT REQUIRE DRIVING. PILES SHALL BE "FIRMLY SEATED" ON ROCK AFTER PLACEMENT IN PREBORED HOLES.

DURING PREBORING, MAINTAIN AN OPEN HOLE FOR PILE INSTALLATION USING TEMPORARY CASING FIRMLY SEATED INTO THE ROCK. DO NOT REMOVE CASING UNTIL THE PILE IS PLACED IN THE PRE-BORE HOLE AND HAS BEEN BACKFILLED WITHIN THE ROCK WITH A CEMENT GROUT. CLEAR DEBRIS FROM THE PRE-BORE HOLE BEFORE INSTALLING THE PILE.

THE EXISTING STRUCTURE (P-33-173) IS A SINGLE SPAN STEEL GIRDER CONCRETE DECK STRUCTURE WITH AN OVERALL LENGTH OF 52.9-FT AND A CLEAR ROADWAY WIDTH OF 26-FT TO BE REMOVED. SUPERSTRUCTURE AND ABUTMENTS SHALL BE REMOVED IN ACCORDANCE WITH THE BID ITEM "REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-33-173".

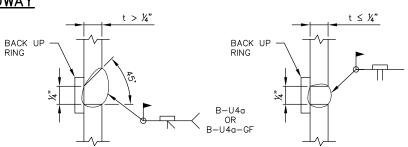
<u>NOTES</u>

GO5 COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS. PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO ENTIRE EXPOSED TOP OF SLAB, INCLUDING THE SLAB EDGES AND 1'-0" UNDER THE SLAB, THE TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE FRONT FACE OF THE ABUTMENTS TO 1'-0" PAST THE EDGE OF SLAB.

G06 34" V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGM. V-GROOVES ARE REQUIRED.

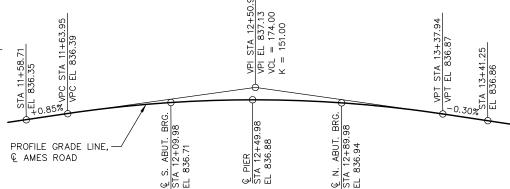
CROSS SECTION THRU ROADWAY

(LOOKING NORTH)



C.I.P. PILE WELD DETAIL

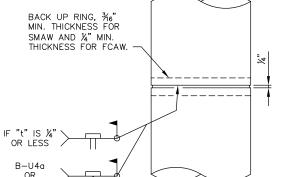
B-U4a-GF



PROFILE GRADE LINE, € AMES ROAD

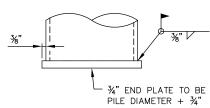
TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	S. ABUT.	PIER	N. ABUT.	SUPER.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-33-173	EACH					1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-33-141	LS					1
210.1500	BACKFILL STRUCTURE TYPE A	TON	130		130		260
502.0100	CONCRETE MASONRY BRIDGES	CY	26.9	11.7	26.9	160.4	226
502.3200	PROTECTIVE SURFACE TREATMENT	SY	16		16	326	358
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2260	3470	2260		7990
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1395	70	1395	34420	37280
513.4061	RAILING TUBULAR TYPE M	LF				170	170
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6		6		12
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF		72			72
550.2104	PILING CIP CONCRETE 10 3/4 X 0.25-INCH	LF	175		175		350
550.2146	PILING CIP CONCRETE 14 X 0.375-INCH	LF		150			150
606.0300	RIPRAP HEAVY	CY	90		82		172
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	75		75		150
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	34		34		68
645.0120	GEOTEXTILE TYPE HR	SY	155		148		303
(NON-BID ITEM)	FILLER	SIZE					1/2" & 3/4"



CAST-IN-PLACE 'PIPE PILE'

NOTE: CAST-IN-PLACE PILE SHELL MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATION.



END PLATE DETAIL FOR CIP PILING

NO. DATE REVISION BY

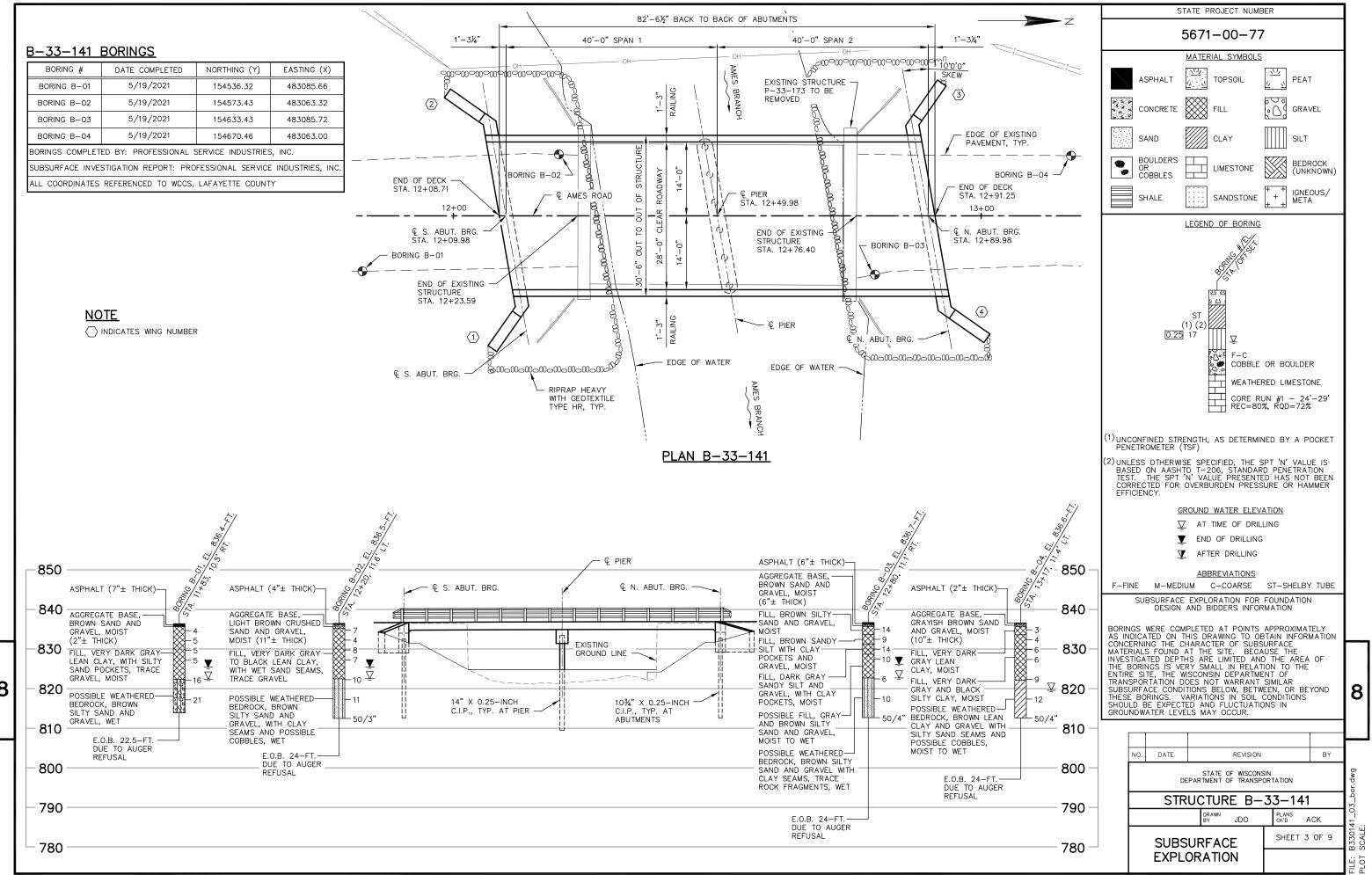
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

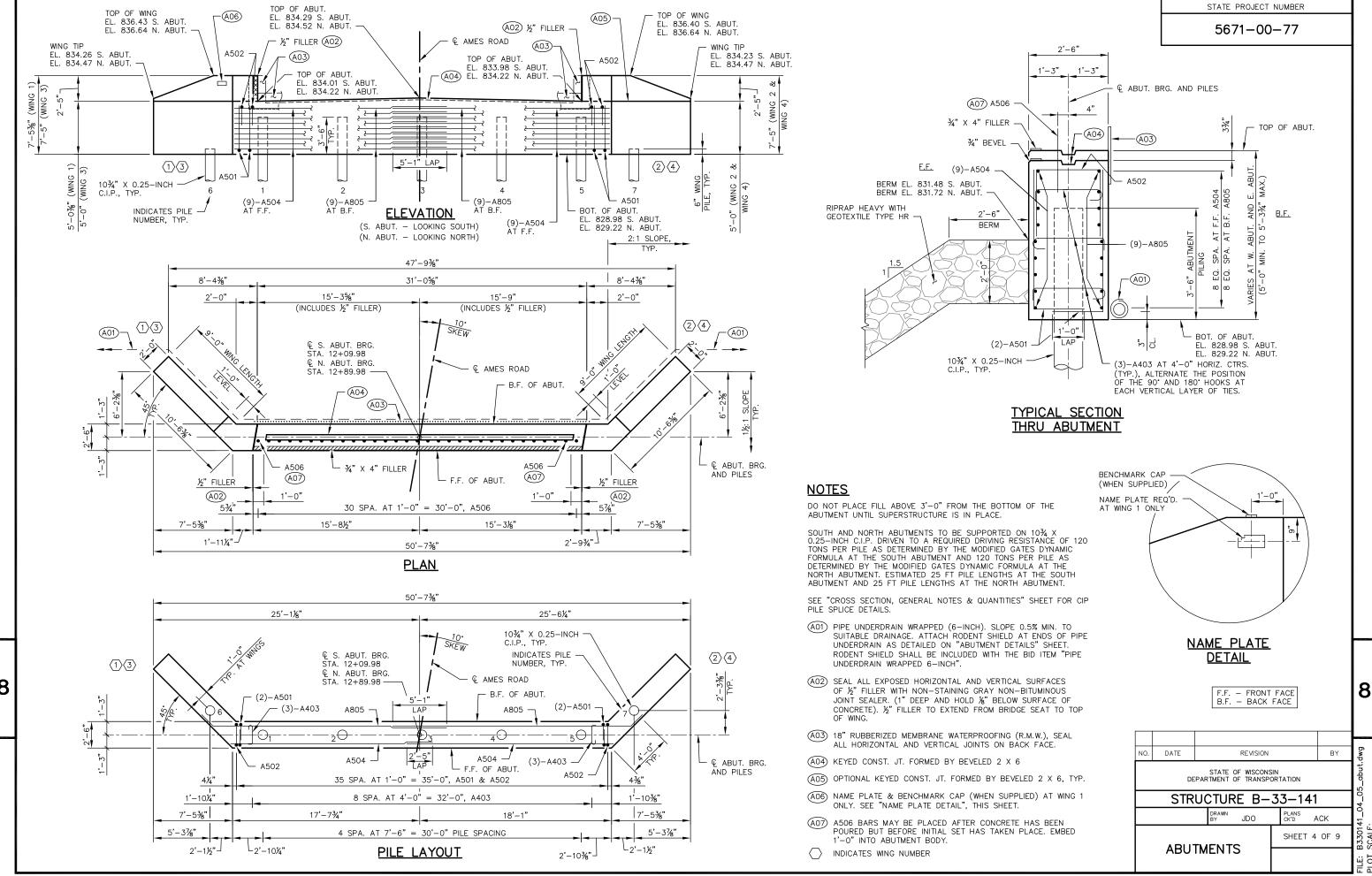
STRUCTURE B-33-141

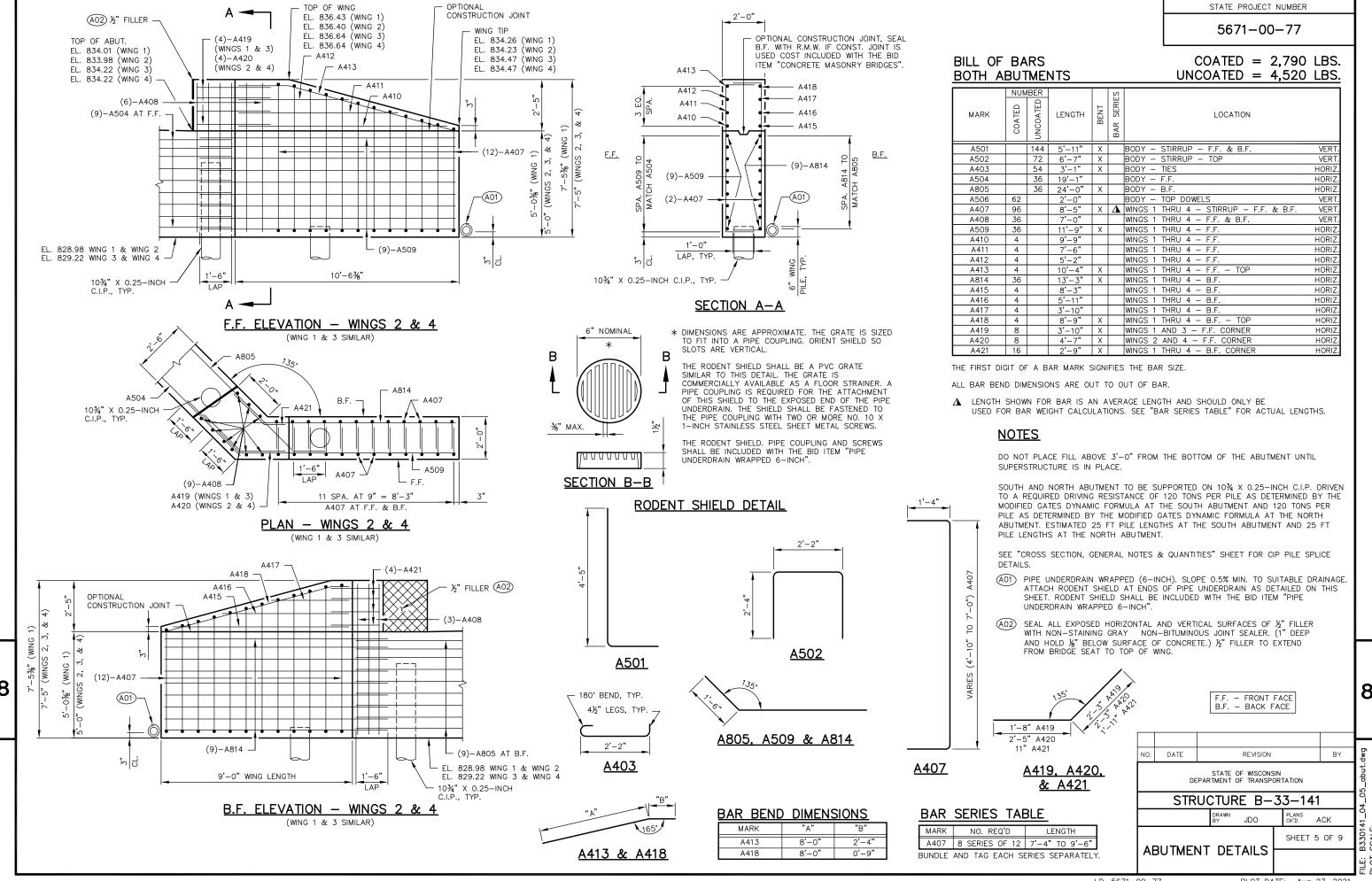
| DRAWN | JDO | PLANS | ACK |
| CROSS SECTION, | SHEET 2 OF 9 |
| GENERAL NOTES &

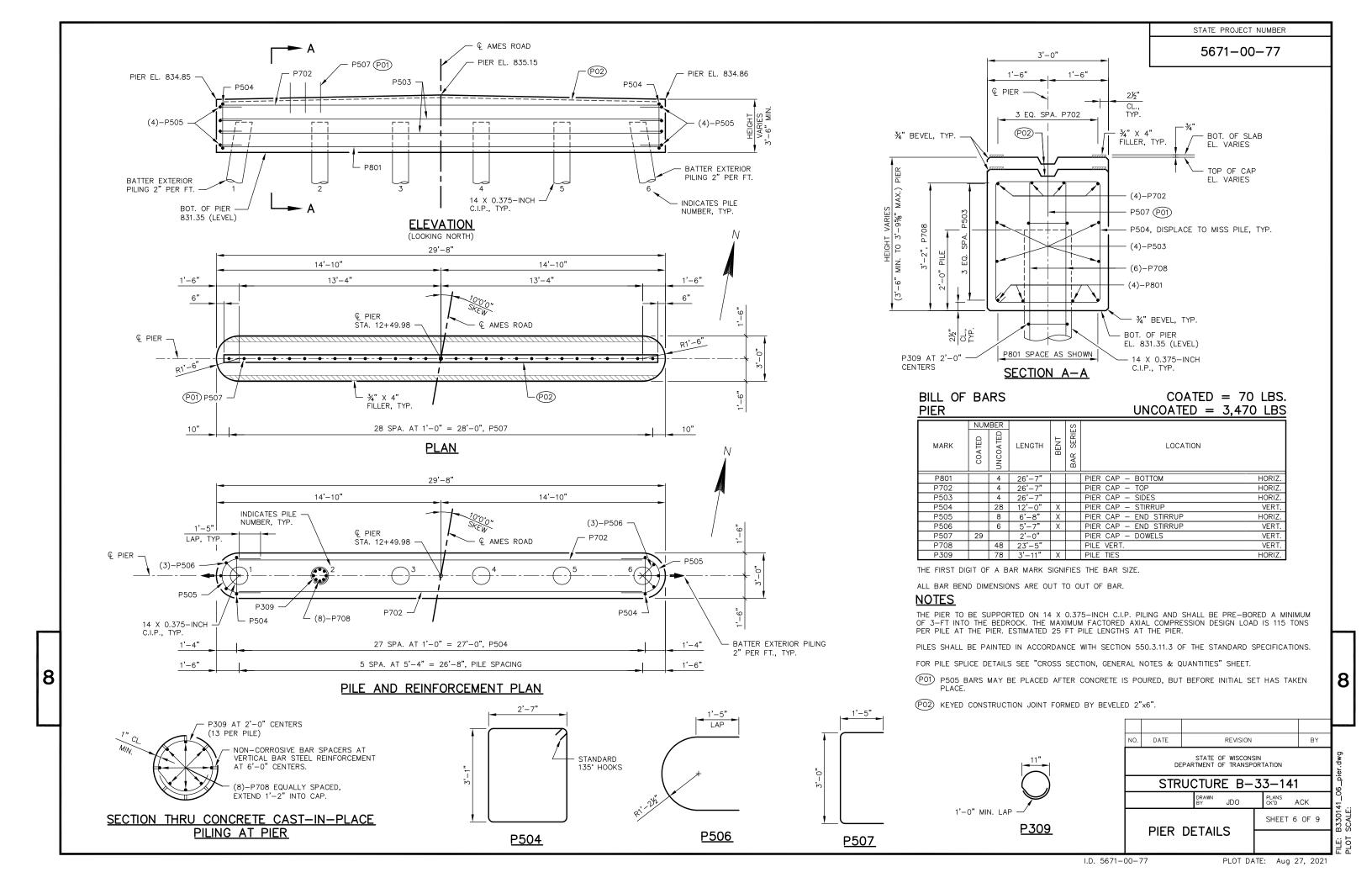
QUANTITIES

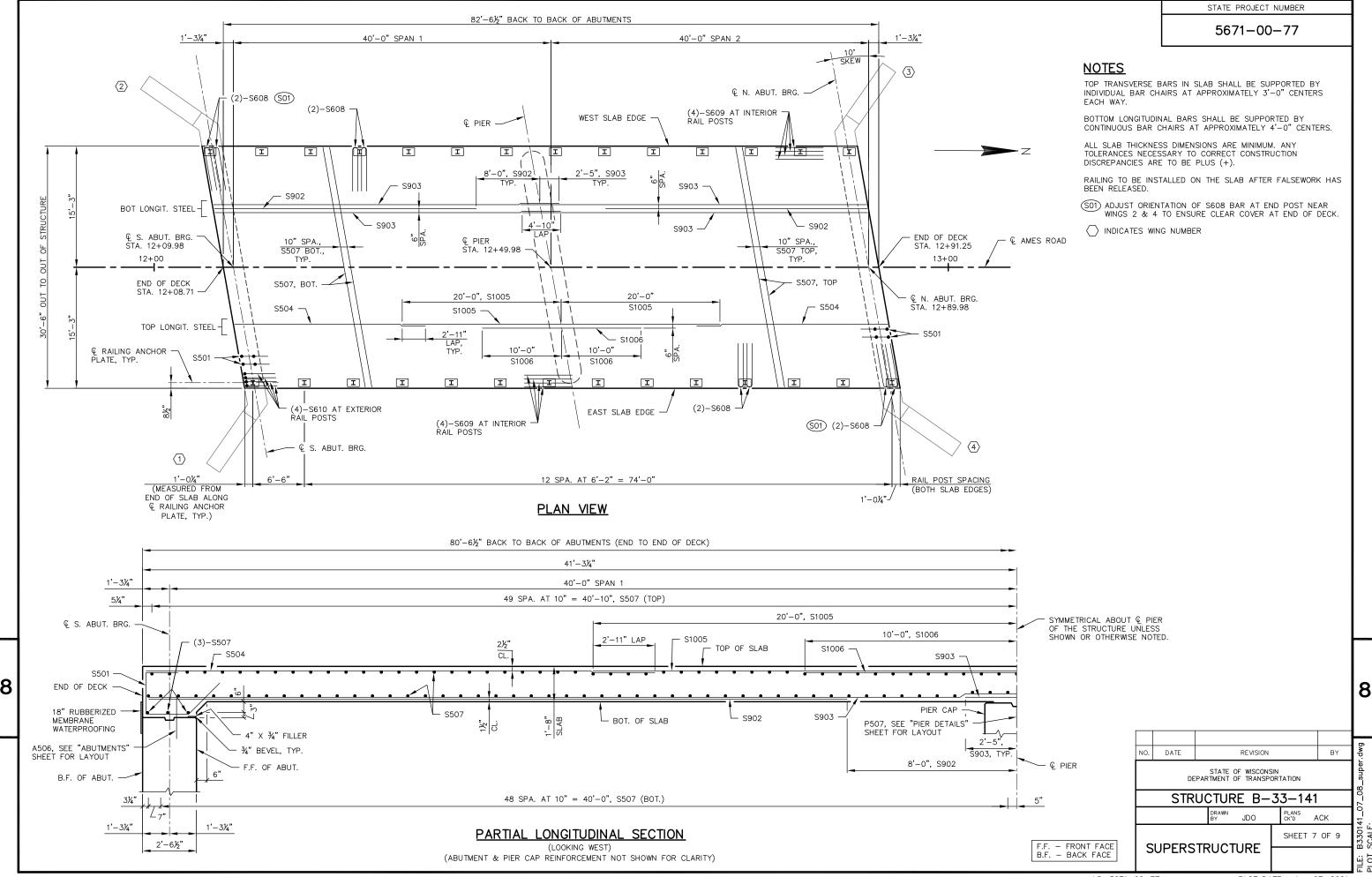
PLOT DATE: Nov 29, 2021

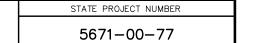














COATED = 34,420 LBS.

MARK	COATED Z	UNCOATED 3	LENGTH	BENT	BAR SERIES	LOCATION						
S501	62		7'-4"	X		SLAB AT ABUTMENT - TIES	LONGIT.					
S902	60		33'-1"			SLAB - BOTTOM SPAN 1 & 2	LONGIT.					
S903	62		43'-7"			SLAB - BOTTOM SPAN 1 & 2	LONGIT.					
S504	62		24'-1"			SLAB - TOP SPAN 1 & 2	LONGIT.					
S1005	31		40'-0"			SLAB - TOP OVER PIER	LONGIT.					
S1006	30		20'-0"			SLAB - TOP OVER PIER	LONGIT.					
S507	205		30'-7"			SLAB - TOP & BOTTOM	TRANS.					
S608	56		12'-0"	Х		SLAB - TOP AT RAIL POSTS	TRANS.					
S609	96		6'-0"			SLAB - TOP AT INTERIOR RAIL POSTS	LONGIT.					
S610	16		4'-8"	Х		SLAB - TOP AT EXTERIOR RAIL POSTS	LONGIT.					

THE FIRST OR FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.

2.0%

14'-0"

S507

AT ABUTMENTS

S504

∟ S902 &

- S501

S903

CROSS SECTION THRU ROADWAY

30 SPA. AT 1'-0" = 30'-0", BOTTOM STEEL S903 (SPANS 1 & 2)

29 SPA. AT 1'-0" = 29'-0", BOTTOM STEEL S902 (SPANS 1 & 2)

30 SPA. AT 1'-0" = 30'-0", S501 (ABUTMENTS)

S507

30'-6"

OUT TO OUT OF STRUCTURE

60 SPA. AT 6" = 30'-0", TOP STEEL S1005 (ALIGN WITH S504) & S1006 (OVER PIER)

(ALTERNATE AS SHOWN ON PLAN VIEW ON "SUPERSTRUCTURE" SHEET)

J
30 SPA. AT 1'-0" = 30'-0", TOP STEEL S504 (SPAN 1 & SPAN 2)

€ AMES ROAD

2.0%

CROWN PT. AND POINT REFERRED TO ON PROFILE

GRADE LINE, & AMES ROAD

S507

(LOOKING NORTH)

<u>NOTES</u>

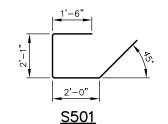
CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

\$02) 34" V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT BODY. V-GROOVES ARE REQUIRED.

SURVEY TOP OF SLAB ELEVATIONS

	€ S. ABUT. BRG.	5/10 PT.	© PIER	5/10 PT.	€ N. ABUT. BRG.
WEST SLAB EDGE					
€ AMES ROAD					
EAST SLAB EDGE					

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE \P OF ABUTMENTS, \P OF PIER AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND REFERENCE LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.



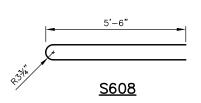
AT PIER

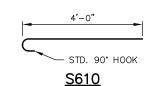
14'-0"

RAILING TUBULAR TYPE M, TYP.

S1005 & S1006 -

FOR DETAILS SEE "RAILING TUBULAR TYPE M" SHEET.





1'-3"

RAILING

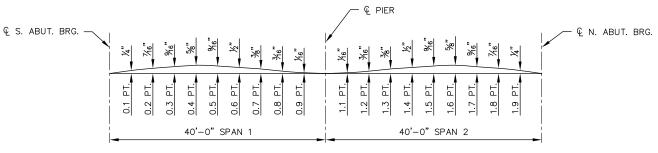
¾" CHAMFER,

S02

V-GROOVE,

- EAST SLAB EDGE

3"



SLAB CAMBER DIAGRAM

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

TOP OF SLAB ELEVATION AT FINAL GRADE ESS SLAB THICKNESS

PLUS CAMBER

1'-3"

RAILING

WEST SLAB

EDGE

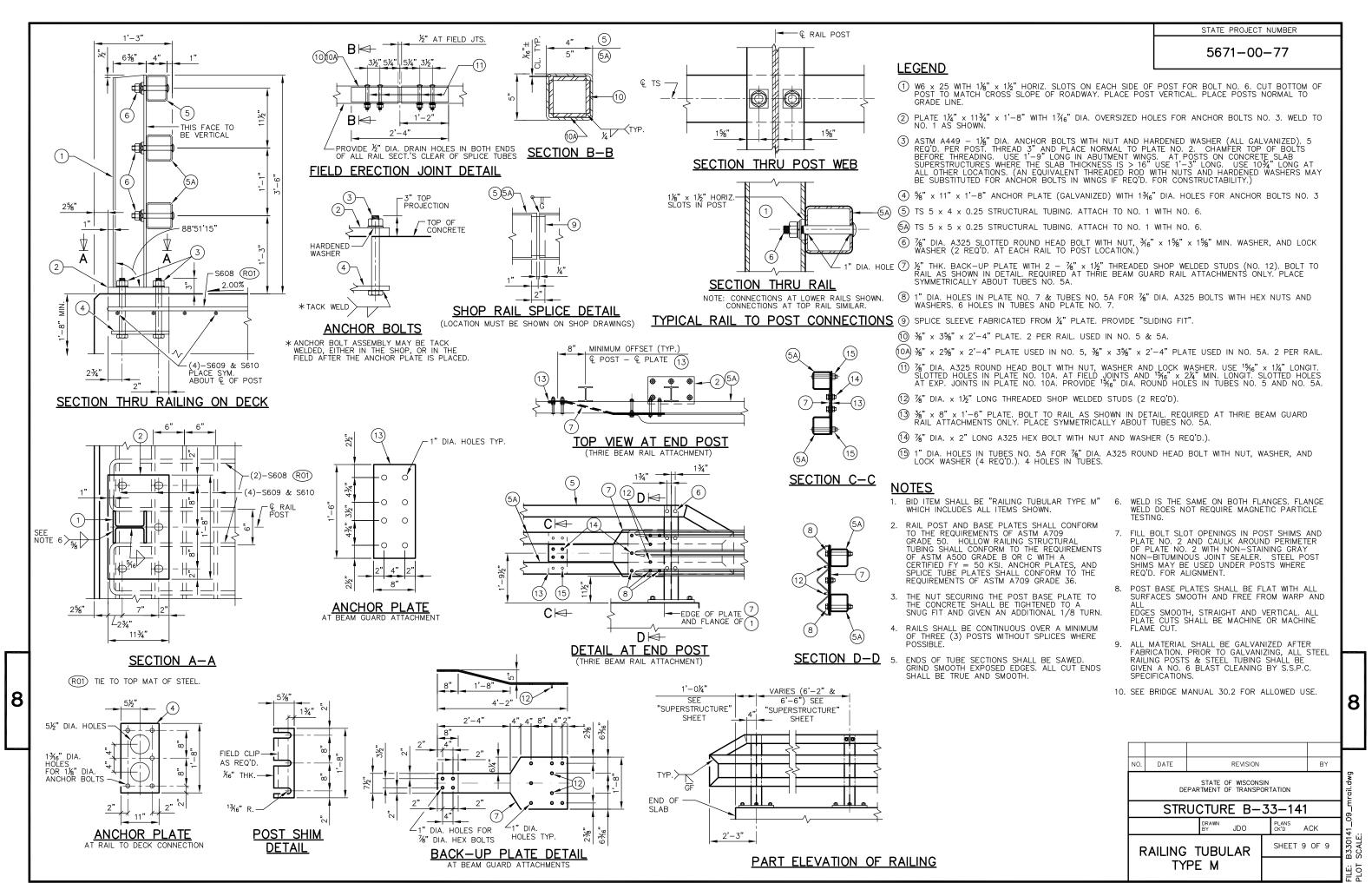
PLUS FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)

EQUALS TOP OF SLAB FALSEWORK ELEVATION.

TOP	OF SLAB	ELEVATION	ONS		
SPAN PT	WEST SLAB EDGE	€ AMES ROAD	EAST SLAB EDGE		
€ S. ABUT. BRG.	836.40	836.71	836.43		
0.1	836.42	836.73	836.45		
0.2	836.44	836.75	836.47		
0.3	836.46	836.77	836.48		
0.4	836.48	836.79	836.50		
0.5	836.50	836.81	836.52		
0.6	836.51	836.82	836.53		
0.7	836.53	836.84	836.55		
0.8	836.54	836.85	836.56		
0.9	836.56	836.87	836.57		
© PIER	836.57	836.88	836.58		
1.1	836.58	836.89	836.59		
1.2	836.59	836.90	836.60		
1.3	836.60	836.91	836.61		
1.4	836.61	836.91	836.62		
1.5	836.62	836.92	836.62		
1.6	836.62	836.93	836.63		
1.7	836.62	836.93	836.63		
1.8	836.63	836.93	836.64		
1.9	836.63	836.94	836.64		
€ N ABUT. BRG.	836.64	836.94	836.64		

- 1					_								
_					б								
NO. DATE REVISION BY													
	DE												
STRUCTURE B-33-141													
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-33-141 DRAWN IDO PLANS ACID												
S	UPERS	TRUCTURE	SHEET 8	OF 9	3330141								

DETAILS



		AREA (S	F)					INCREME	NTAL VOL (CY) (UNADJU	STED)			ĺ	CUMULA	ATIVE VOL (CY)						
			v.						350 - 50 - 72						13. 3.99	EXPANDED MARSH		EXPANDED EBS	REDUCED MARSH	REDUCED EBS	MASS
		CUT	SALVAGED/UNUSABI	LE FILL	MARSH	ROCK	EBS	CUT	SALVAGED/UNUSABLE	FILL	MARSH	ROCK	EBS	CUT	EXPANDED FILL	BACKFILL	EXPANDED ROCK	BACKFILL	IN FILL	IN FILL	ORDINATE
STATION	DISTANCE		PAVEMENT MATERIA	AL.	EXC	EXC	I		PAVEMENT MATERIAL		EXC	EXC		1.00	1.25	1.50	1.10	1.30	0.60	0.80	
								Note 1	Note 2	Note 3				Note 1		Note 4		Note 5	Note 6	Note 7	Note 8
11+58.71		78.06	10.50	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11+62.72	4.01	77.64	10.50	0.00	0	0	0	12	2	0	0	0	0	12	0	0	0	0	0	0	10
11+75.00	12.28	57.82	10.50	0.00	0	0	0	31	5	0	0	0	0	43	0	0	0	0	0	0	35
11+83.71	8.71	56.00	10.50	0.00	0	0	0	18	3	0	0	0	0	61	0	0	0	0	0	0	51
12+00.00	16.29	61.49	10.50	0.82	0	0	0	35	6	0	0	0	0	96	0	0	0	0	0	0	80
12+08.71	8.71	33.12	5.25	1.39	0	0	0	15	3	0	0	0	0	111	0	0	0	0	0	0	92
			_						_		STRUC	TURE B	-33-0	141		_		_			

DIVISION 1 TOTALS	111	19	0	0	0	0
						2.2

		AREA (S	F)					INCREM	ENTAL VOL (CY) (UNADJI	ISTED)				CUMULA	ATIVE VOL (CY)						
STATION DISTANCE		сит	SALVAGED/UNUSABLE FILL PAVEMENT MATERIAL		L MARSH ROCK EBS		EBS	CUT Note 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL Note 2	FILL Note 3	EXC		(C	CUT 1.00 Note 1	1.00 1.25	EXPANDED MARSH BACKFILL 1.50 Note 4	EXPANDED ROCK 1.10	Control of the Control of the Control	REDUCED MARSH IN FILL 0.60 Note 6		MASS ORDINATE Note 8
											STRUC	TURE B-	33-0	141							
12+91.25		33.14	5.25	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13+00.00	8.75	60.94	10.50	0.00	0	0	0	15	3	0	0	0	0	15	0	0	0	0	0	0	12
13+16.25	16.25	53.69	10.50	0.00	0	0	0	34	6	0	0	0	0	49	0	0	0	0	0	0	41
13+25.00	8.75	50.85	10.50	0.00	0	0	0	17	3	0	0	0	0	66	0	0	0	0	0	0	55
13+37.25	12.25	63.68	10.50	1.69	0	0	0	26	5	0	0	0	0	92	0	0	0	0	0	0	76
13+41.25	4.00	63.63	10.50	1.68	0	0	0	9	2	0	0	0	0	101	0	0	0	0	0	0	83
					DIVISI	ON 2 TO	TALS	101	19	0	0	0	0								
					PROJ	ЕСТ ТОТ	TALS	212	38	0	0	0	0								

NOTES:	
1-CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT M	IAT THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH CUT OR BORROW: [(CUT + MARSH EXC + EBS) - ((FILL - REDUCED MARSH IN FILL) - (REDUCED EBS IN FILL) - EXPANDED ROCK) * FILL FACTOR)]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT + EBS + MARSH EXC) - ((FILL - (REDUCED MARSH IN FILL) - (REDUCED EBS IN FILL) - (EXPANDED ROCK)) * FILL FACTOR))]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT) - ((FILL - EXPANDED ROCK) * FILL FACTOR))]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH CUT OR BORROW: [(CUT) - ((FILL - EXPANDED ROCK) * FILL FACTOR))]

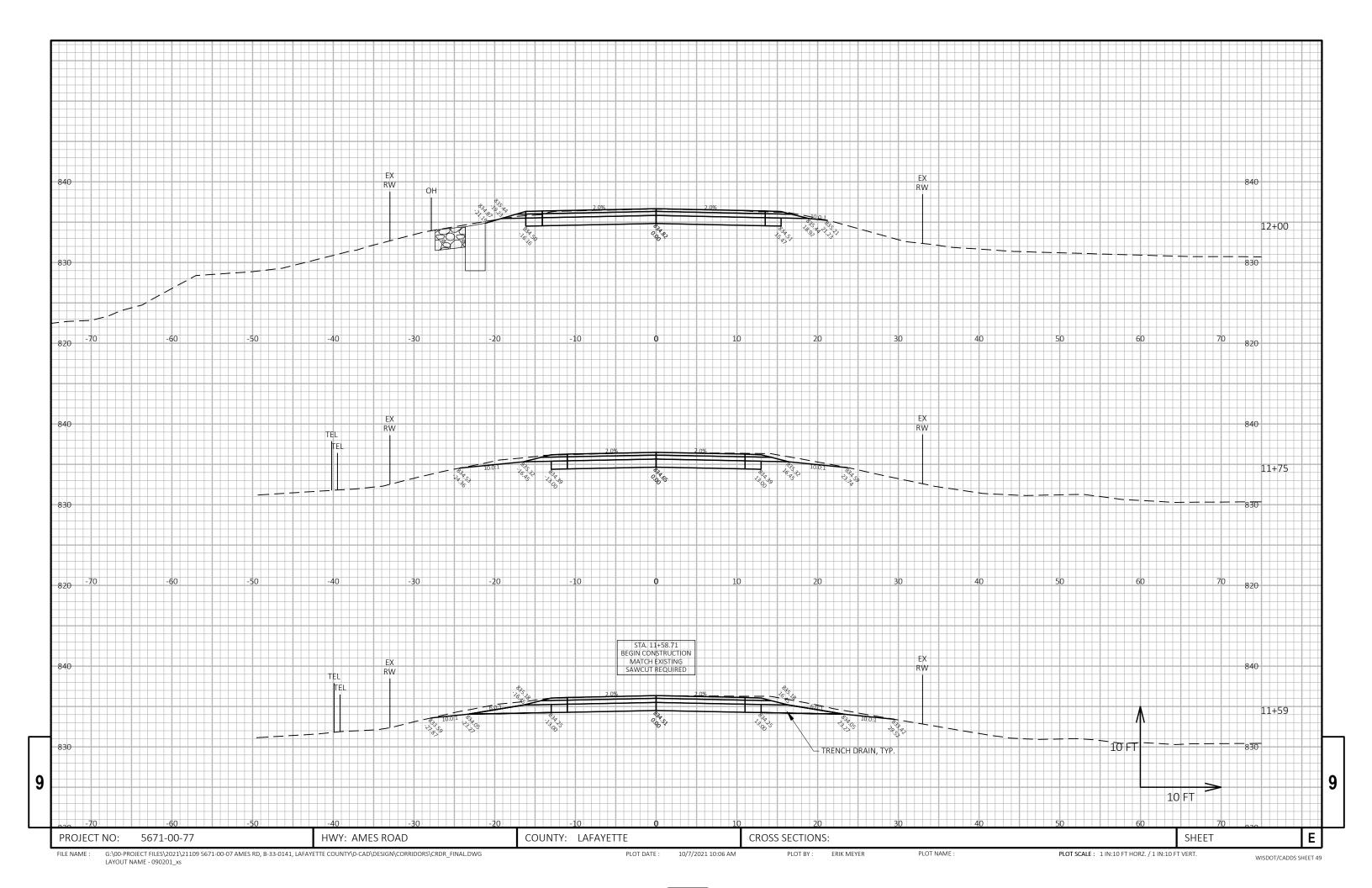
COUNTY: LAFAYETTE SHEET Ε PROJECT NO: 5671-00-77 HWY: AMES ROAD EARTHWORK DATA

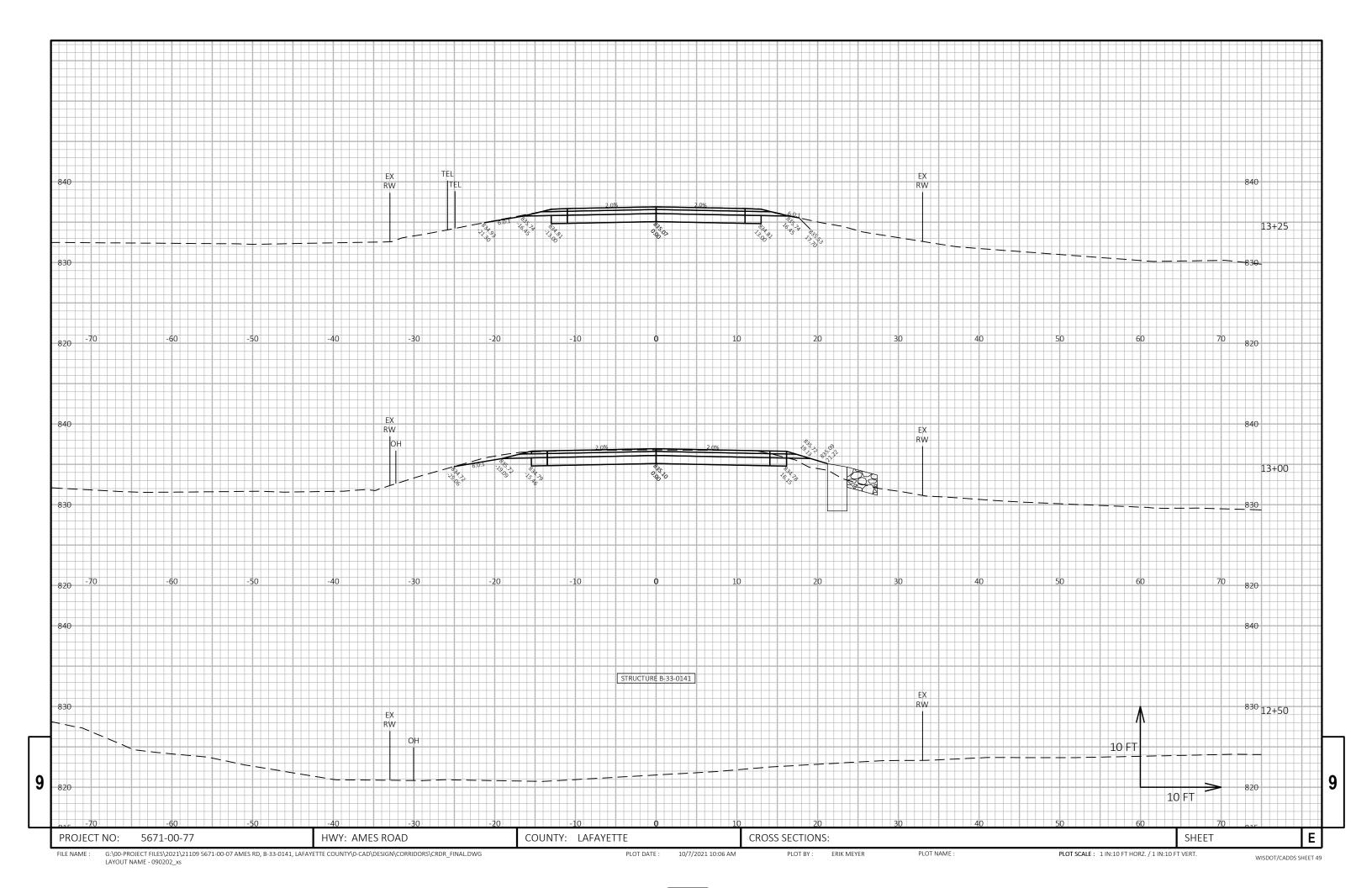
G:\00-PROJECT FILES\2021\21109 5671-00-07 AMES RD, B-33-0141, LAFAYETTE COUNTY\0-CAD\SHEETSPLAN\090101_EW.DWG LAYOUT NAME - 090101_ew FILE NAME :

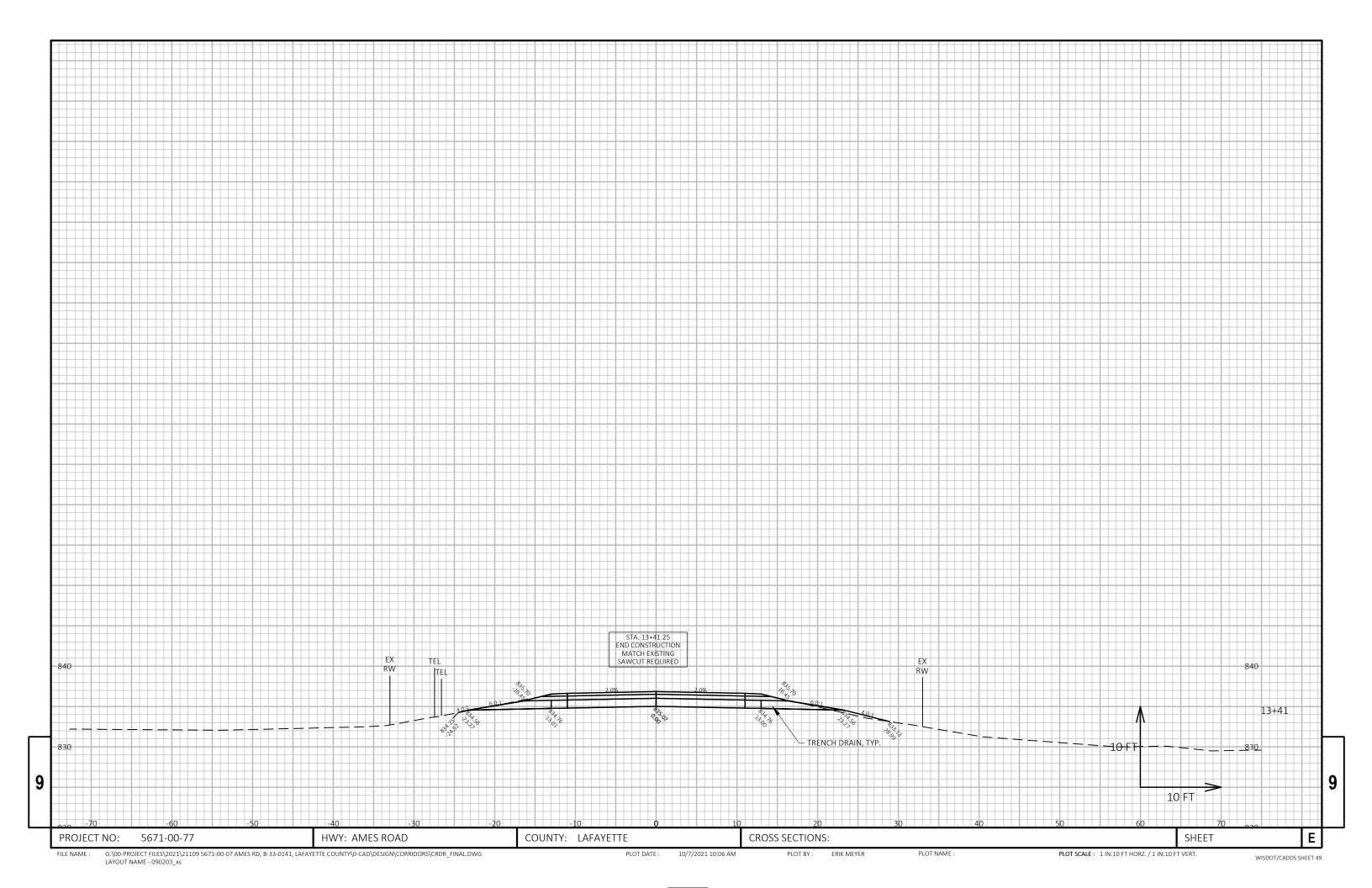
PLOT DATE : 8/9/2021 1:17 PM PLOT BY: ERIK MEYER PLOT NAME :

PLOT SCALE : 1" = 1' WISDOT/CADDS SHEET 49

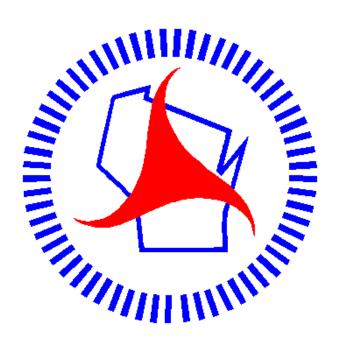
9







Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov