FEBRUARY 2020

Section No.

Section No. Section No.

Section No. Section No.

Section No.

TOTAL SHEETS = 50

DESIGN DESIGNATION

2040 = 1400

CONVENTIONAL SYMBOLS

= 249

= 59/41

= 3.3%

≖ N/A

40 MPH

A.A.D.T. A.A.D.T.

D.H.V.

D.D.

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 ARFA

PROPERTY LINE

LOTLINE

Estimate of Quantities

Computer Earthwork Data

PROJECT LOCATION

PROFILE

GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

ELECTRIC

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

STORM SEWER

TELEPHONE

GRADE ELEVATION

MARSH OR ROCK PROFILE

LABEL

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(To be noted as such)

CULVERT (Profile View)

Cross Sections

STATE OF WISCONSIN ORDER OF SHEETS **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details

PLAN OF PROPOSED IMPROVEMENT

HOGARTY - ANTIGO

SPRING BROOK BRIDGE B-34-0057

CTHY LANGLADE COUNTY

STATE PROJECT NUMBER 9391-00-70 R-10-E R-11-E BB **BEGIN PROJECT** STA. 7+40 Y = 335,010.37 X = 616,945.30T-31-N HH STRUCTURE B-34-57 **END PROJECT** STA. 12+40 Y = 335,013.85X = 617,445.29T-30-N LAYOUT 2.0 MI HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, LANGLADE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET, VALUES ARE GRID COORDINATES, GRID REARINGS, AND GRID TOTAL NET LENGTH OF CENTERLINE = 0.095 MI

FEDERAL PROJECT **STATE PROJECT** PROJECT CONTRACT 9391-00-70 WISC 2020051

ACCEPTED FOR

COUNTY

LANGLADE

ORIGINAL PLANS PREPARED BY



1835 N. Stevens St. Rhinelander, WI 54501 715-362-3244 1-800-844-7854 Fax: 715-362-4116



STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

PREPARED BY Surveyor

Designer

MSA PROFESSIONAL SERVICES INC MSA PROFESSIONAL SERVICES, INC

Project Manager

DATE: 7/30/19

Ε

FILE NAME: P:\11500\$\11500\$\11509\11509003\CADD\\$HEET\$PLAN\010101_TI.DWG

PLOT DATE :

5/30/2019 4:47 PM

KYLE BUSCH

DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

GENERAL NOTES

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

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

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

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2012).

THE 4" ASPHALTIC SURFACE SHALL CONSIST OF A 1 $\frac{3}{4}$ " UPPER LAYER WITH NO. 4 (12.5 MM) NOMINAL SIZE AGGREGATE AND A 2 $\frac{1}{4}$ " LOWER LAYER WITH WITH NO. 3 (19.0 MM) NOMINAL SIZE AGGREGATE.

SILT FENCE AND TURBIDITY BARRIER TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO CONSTRUCTION OR BRIDGE REMOVAL.

WETLANDS ARE PRESENT OUTSIDE THE EXISTING TOE OF SLOPE ON THE NORTH SIDE OF THE ROAD. AREAS OUTSIDE OF THE SLOPE INTERCEPTS SHALL NOT BE DISTURBED IN THIS AREA.

THE CONTRACTOR SHALL NOT GO OUTSIDE THE LIMITS OF CONSTRUCTION WITHOUT APPROVAL FROM THE ENGINEER.

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. 1835 N. STEVENS STREET RHINELANDER, WI 54501 ATTN: SEAN SPROMBERG, PE PHONE: (715) 304-0451 sspromberg@msa-ps.com

UTILITIES

BURIED GAS:
CITY GAS
809 5TH AVENUE
ANTIGO, WI 54409
ATTN: JACK ZIMMERMAN
PHONE: (715) 627-4351
jzimmerman@citygasantigo.com

BURIED WATER AND SEWER: CITY OF ANTIGO - PUBLIC WORKS 700 EDISON STREET ANTIGO, WI 54409 ATTN: CHARLIE BRINKMEIER (715) 623-3633 cbrinkmeier@antigo-city.org

OVERHEAD ELECTRIC:
WISCONSIN PUBLIC SERVICE CORPORATION
1700 SHERMAN STREET
P.O.BOX 1166
WAUSAU, WI 54402
(715) 848-7487
dalutzow@wisconsinpublicservice.com

OVERHEAD COMMUNICATIONS: CHARTER COMMUNICATIONS 853 MCINTOSH STREET WAUSAU, WI 54403 ATTN: DAVE HOFF (715) 218-8395 dave.hoff@charter.com

OVERHEAD COMMUNICATIONS: FRONTIER COMMUNICATIONS 521 4TH STREET WAUSAU, WI 54403 ATTN: TOM LOCKE (715) 847-1550 tom.locke@ftr.com

COUNTY CONTACT

LANGLADE COUNTY HIGHWAY DEPARTMENT 1521 ARCTIC STREET ANTIGO, WI 54409 ATTN: BRIAN BRAUN, COMMISSIONER PHONE: (715) 627-6272 bbraun@co.langlade.wi.us

DNR CONTACT

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
107 SUTLIFF AVENUE
RHINELANDER, WI 54501
ATTN: WENDY HENNIGES
PHONE: (715) 365-8916
wendy.henniges@wisconsin.gov

* - NOT A MEMBER OF DIGGERS HOTLINE.



EROSION CONTROL NOTES

RUNOFF COEFFICIENTS FOR THIS PROJECT: EXISTING SIDE SLOPES 0.30, PROPOSED SIDE SLOPES 0.30, EXISTING PAVEMENT 0.95, PROPOSED PAVEMENT 0.95.

TOTAL PROJECT AREA - 0.76 ACRES

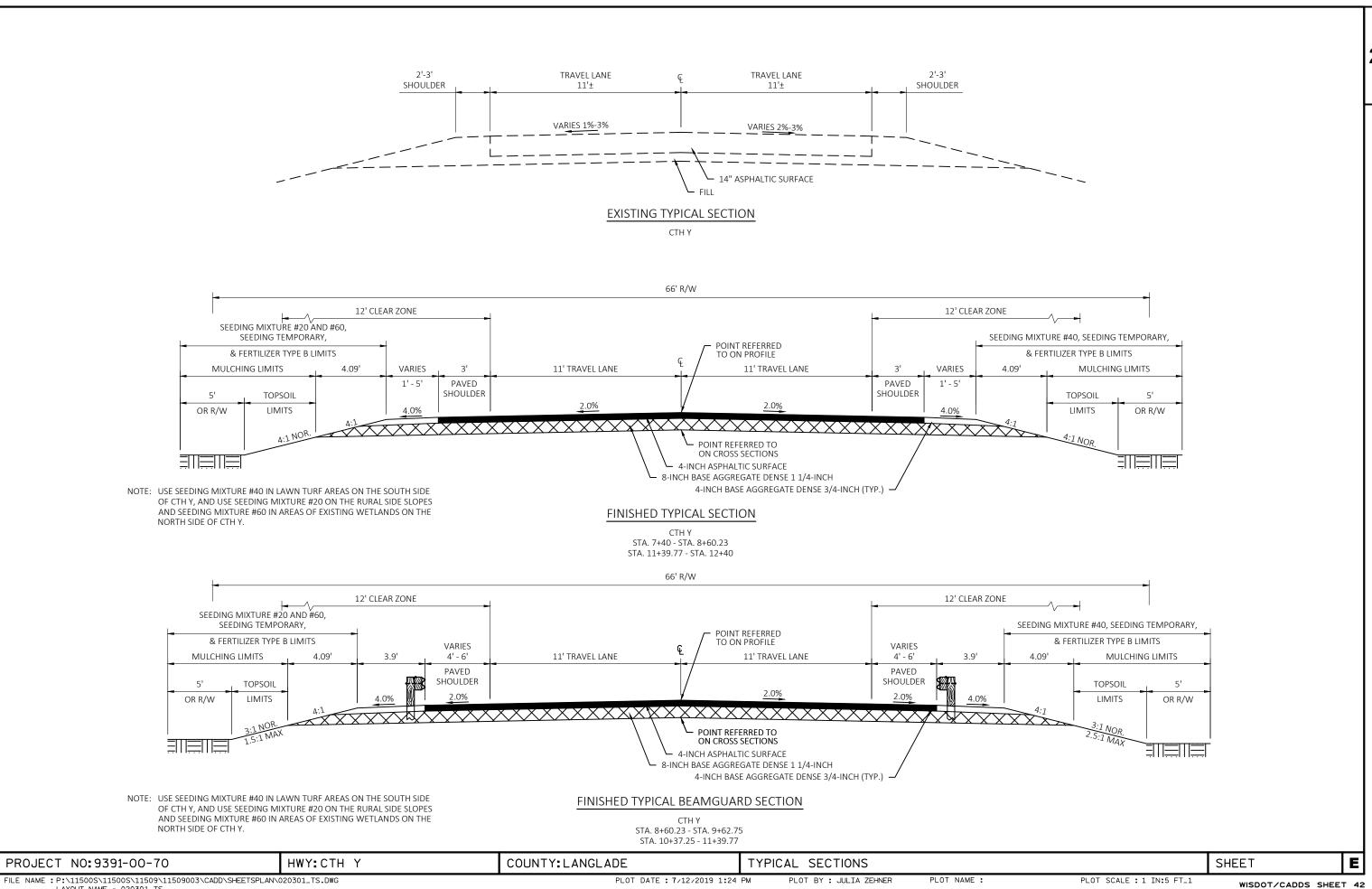
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.59 ACRES

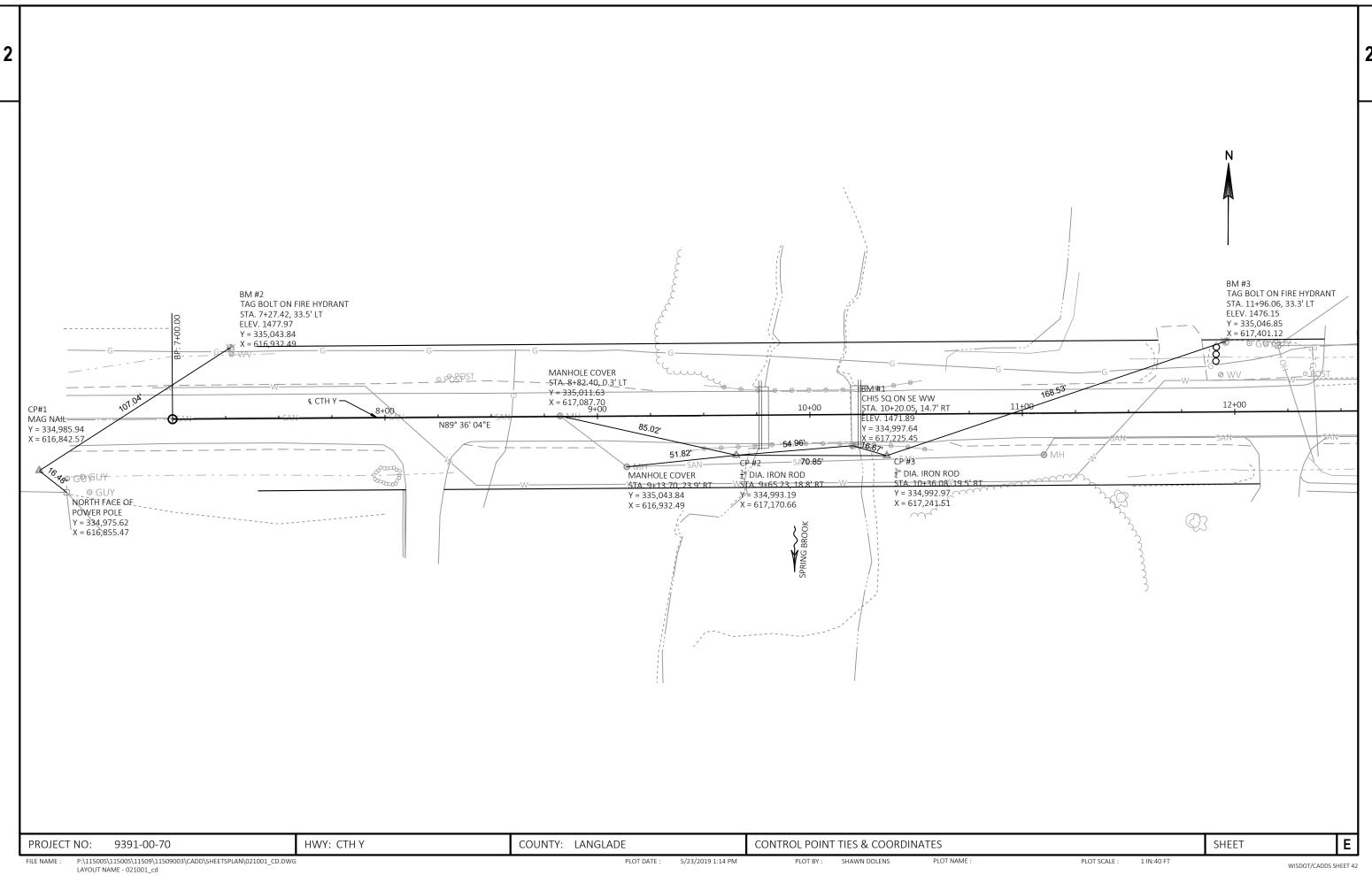
PROJECT NO: 9391-00-70 HWY: CTH Y

COUNTY: LANGLADE

GENERAL NOTES

FILE NAME: P\11500S\11509\11





WISDOT/CADDS SHEET 42

Page 1

					9391-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	2.000	2.000
0004	201.0205	Grubbing	STA	2.000	2.000
0006	203.0600.S	•	LS	1.000	1.000
8000	204.0165	Removing Guardrail	LF	219.000	219.000
0010	205.0100	Excavation Common	CY	493.000	493.000
0012	206.1000	Excavation for Structures Bridges (structure) 01. B-34-57	LS	1.000	1.000
0014	208.0100	Borrow	CY	1,309.000	1,309.000
0016	210.1500	Backfill Structure Type A	TON	510.000	510.000
0018	213.0100	Finishing Roadway (project) 01. 9391-00-70	EACH	1.000	1.000
0020	305.0110	Base Aggregate Dense 3/4-Inch	TON	85.000	85.000
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	904.000	904.000
0024	455.0605	Tack Coat	GAL	73.000	73.000
0026	465.0105	Asphaltic Surface	TON	323.000	323.000
0028	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	7.000	7.000
0030	502.0100	Concrete Masonry Bridges	CY	239.000	239.000
0032	502.3200	Protective Surface Treatment	SY	260.000	260.000
0034	505.0400	Bar Steel Reinforcement HS Structures	LB	4,660.000	4,660.000
0036	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	27,220.000	27,220.000
0038	513.4061	Railing Tubular Type M	LF	154.000	154.000
0040	516.0500	Rubberized Membrane Waterproofing	SY	20.000	20.000
0042	524.0118	Culvert Pipe Salvaged 18-Inch	LF	30.000	30.000
0042	550.0600	Pile Redriving	EACH	10.000	10.000
0044	550.2126	Piling CIP Concrete 12 3/4 X 0.375-Inch	LF	550.000	550.000
0048	606.0300	Riprap Heavy	CY	201.000	201.000
0050	611.8110	Adjusting Manhole Covers	EACH	3.000	3.000
0050	612.0406	Pipe Underdrain Wrapped 6-Inch		180.000	180.000
		•	LF		
0054	614.2300	MGS Guardrail 3	LF	50.000	50.000
0056	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600
0058	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0060	618.0100	Maintenance And Repair of Haul Roads (project) 01. 9391-00-70	EACH	1.000	1.000
0062	619.1000	Mobilization	EACH	1.000	1.000
0064	624.0100	Water	MGAL	20.000	20.000
0066	625.0100	Topsoil	SY	915.000	915.000
0068	627.0200	Mulching	SY	915.000	915.000
0070	628.1504	Silt Fence	LF	860.000	860.000
0072	628.1520	Silt Fence Maintenance	LF	860.000	860.000
0074	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000

					9391-00-70
Line	Item	Item Description	Unit	Total	Qty
0076	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0078	628.6005	Turbidity Barriers	SY	89.000	89.000
0800	628.7555	Culvert Pipe Checks	EACH	20.000	20.000
0082	629.0210	Fertilizer Type B	CWT	0.550	0.550
0084	630.0120	Seeding Mixture No. 20	LB	9.000	9.000
0086	630.0140	Seeding Mixture No. 40	LB	10.000	10.000
8800	630.0160	Seeding Mixture No. 60	LB	0.800	0.800
0090	630.0200	Seeding Temporary	LB	25.000	25.000
0092	630.0500	Seed Water	MGAL	21.000	21.000
0094	642.5001	Field Office Type B	EACH	1.000	1.000
0096	643.0420	Traffic Control Barricades Type III	DAY	1,400.000	1,400.000
0098	643.0705	Traffic Control Warning Lights Type A	DAY	2,100.000	2,100.000
0100	643.0900	Traffic Control Signs	DAY	1,050.000	1,050.000
0102	643.5000	Traffic Control	EACH	1.000	1.000
0104	645.0111	Geotextile Type DF Schedule A	SY	80.000	80.000
0106	645.0120	Geotextile Type HR	SY	393.000	393.000
0108	650.4500	Construction Staking Subgrade	LF	450.000	450.000
0110	650.5000	Construction Staking Base	LF	450.000	450.000
0112	650.6500	Construction Staking Structure Layout (structure) 01. B-34-57	LS	1.000	1.000
0114	650.9910	Construction Staking Supplemental Control (project) 01. 9391-00-70	LS	1.000	1.000
0116	650.9920	Construction Staking Slope Stakes	LF	450.000	450.000
0118	690.0150	Sawing Asphalt	LF	95.000	95.000
0120	715.0502	Incentive Strength Concrete Structures	DOL	1,430.000	1,430.000
0122	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0124	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0126	SPV.0060	Special 01. Adjusting Water Valve Box	EACH	1.000	1.000

			_	
			201.0105	201.0205
			CLEARING	GRUBBING
STA	TION - STATION	LOCATION	STA	STA
	9+25 - 11+25	LT & RT	2	2
		TOTALS:	2	2

CLEARING & GRUBBING

EXCAVATION

LOCATION	205.0100 EXC. COMMON	FILL	EXPANDED FILL	UNUSABLE PAVEMENT	WASTE	208.0100 BORROV
LOCATION	CY (3)	CY (1)	CY (2)	CY (1)	CY	CY
STA 7+40 - STA. 9+74.75	266	501	650	207	214	591
STA 10+25.25 - STA 12+40	227	586	761	184	187	718
TOTALS:	493	1087	1411	391	401	1309

- (1) NOT A BID ITEM FOR INFORMATIONAL PURPOSES ONLY.
- (2) FILL EXPANSION 30%
- (3) EXISTING ASPHALTIC PAVEMENT IS INCLUDED IN COMMON EXCAVATION TOTALS. SEE EARTHWORK TABLE.

BASE AGGREGATE DENSE							
	305.0110	305.0120	624.0100				
	BASE	BASE	WATER				
	AGGREGATE	AGGREGATE					
	DENSE	DENSE					
	3/4-INCH	1 1/4-INCH					
STATION - STATION	TON	TON	MGAL				
7+40 - 9+74.75	38	460	10				
10+25.25 - 12+40	33	430	9				
DRIVEWAYS	14	14	1				
TOTALS:	85	904	20				

TACK COAT & ASPHALTIC SURFACE

	455.0605	465.0105	465.0120
			ASPHALTIC SURFACE
	TACK COAT	ASPHALTIC	DRIVEWAYS AND
		SURFACE	FIELD ENTRANCES
STATION - STATION	GAL	TON	TON
7+40 - 9+74.75	38	168	
10+25.25 - 12+40	35	155	
DRIVEWAYS			7
TOTALS:	73	323	7

	CULVERTS		R	IPRAP & GEOTE	XTILE	
		524.0118 CULVERT PIPE SALVAGED	CTATION CTATION	LOCATION	606.0300 RIPRAP HEAVY	645.0120 GEOTEXTILE TYPE HR
STATION	LOCATION	18-INCH LF	STATION - STATION 9+50 - 9+64	LOCATION	CY	SY 21
	LOCATION		9+50 - 9+64	LT	8	- -
11+75	DRIVEWAY, LT	30	10+38 - 11+65	LT	83	187
-	TOTAL:	30		TOTALS:	91	208

HWY: CTH Y

		GUARDRAIL IT	EMS			MOBIL	IZATION
		204.0165 REMOVING GUARDRAIL	614.2300 MGS GUARDRAIL 3	614.2500 MGS THRIE BEAM TRANSITION	614.2610 MGS GUARDRAIL TERMINAL	PROJECT 9391-00-70	619.1000 MOBILIZATIO EACH
					EAT	9391-00-70	'
STATION - STATION	LOCATION	LF	LF	LF	EA	TOTAL:	1
8+60.23 - 9+65.25	LT		12.5	39.4	1	TO ITAL.	
8+60.23 - 9+65.25	RT		12.5	39.4	1		
9+40 - 10+60	LT & RT	219					
10+34.75 - 11+39.77	LT		12.5	39.4	1		
10+34.75 - 11+39.77	RT		12.5	39.4	1		
	TOTALS	219	50	157.6	4		

			F	RESTORATION					
		625.0100 TOPSOIL	627.0200 MULCHING	629.0210 FERTILIZER TYPE B	630.0120 SEEDING MIXTURE	630.0140 SEEDING MIXTURE	630.0160 SEEDING MIXTURE	630.0200 SEEDING TEMPORARY	630.0500 SEED WATER
					NO. 20	NO. 40	NO. 60		
STATION - STATION	LOCATION	SY	SY	CWT	LB	LB	LB	LB	MGAL
7+40 - 9+62.75	LT	270	270	0.15	6	0	0.0	7	6
8+60 - 9+50	LT	-	-	-	0	0	0.4	0	0
7+40 - 9+62.75	RT	245	245	0.15	0	4	0.0	7	5
10+37.25 - 12+40	LT	65	65	0.05	1	0	0.2	2	1
10+37.25 - 12+40	RT	235	235	0.15	0	4	0.0	6	5
UNDISTRIBUTED		100	100	0.05	2	2	0.2	3	4
	TOTALS:	915	915	0.55	9	10	0.8	25	21

		ERO	SION CONTROL			
		628.1504	628.1520	628.1905	628.1910	628.7555
		SILT FENCE	SILT FENCE	MOBILIZATION	MOBILIZATION	CULVERT
			MAINTENANCE		EMERGENCY	PIPE CHECKS
STATION - STATION	LOCATION	LF	LF	EA	EA	EA
7+40 - 9+62.75	LT	232	232			
7+40 - 9+62.75	RT	200	200			
10+37.25 - 12+40	LT	196	196			
10+37.25 - 12+40	RT	187	187			
11+90	LT					20
PROJECT 9391-00-70	-			2	2	
UNDISTRIBUTED	-	45	45			
	TOTALS:	860	860	2	2	20

ADJUSTI	NG MANHOLE C	OVERS	MAINTENANCE AN	ID REPAIR OF HAUL ROA
OTA TION	LOCATION	*611.8110 ADJUSTING MANHOLE COVERS		*618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS
STATION	LOCATION	EA	PROJECT PROJECT	EACH
8+82	0' LT	1	9391-00-70	1
9+14	24' RT	1		
11+10	20' RT	1	TOTAL:	1
	TOTAL:	3	*CATEGORY 0030 I	ГЕМ

PROJECT NO: 9391-00-70

COUNTY: LANGLADE

MISCELLANEOUS QUANTITIES

SHEET

TRAFFIC CONTROL ITEMS

		TDAFFIO	643.0420	TDAFFIO	643.0705	TDAFFIO	643.0900
		TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL
		BARRICADES	BARRICADES	WARNING	WARNING	SIGNS	SIGNS
		TYPE III	TYPE III	LIGHTS	LIGHTS		
				TYPE A	TYPE A		
LOCATION	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS
WAUSAU RD INTERSECTION	70	2	140	4	280	5	350
BEGINNING OF PROJECT	70	7	490	10	700	2	140
END OF PROJECT	70	7	490	10	700	2	140
GOWAN RD INTERSECTION	70	2	140	4	280	4	280
UNDISTRIBUTED	70	2	140	2	140	2	140
TOTALS:			1,400		2,100		1,050

CONSTRUCTION STAKING

	650.4500	650.5000	650.9920	650.9910
	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION
	STAKING SUBGRADE	STAKING BASE	STAKING SLOPE	STAKING SUPPLEMENTAL
	0020.1.122	2,102	STAKES	CONTROL
STATION	LF	LF	LF	LS
7+40 - 9+74.75	235	235	235	
10+25.25 - 12+40	215	215	215	
PROJECT 9391-00-70				1
TOTALS:	450	450	450	1

TURBIDITY	BARRIERS
ICILDIDIII	

	628.6005 TURBIDITY BARRIERS
LOCATION	SY
STA 9+50 - STA 10+50 LT	32
STA 9+50 - STA 10+50 RT	57
UNDISTRIBUTED	
TOTAL:	89

SAWING ASPHALT

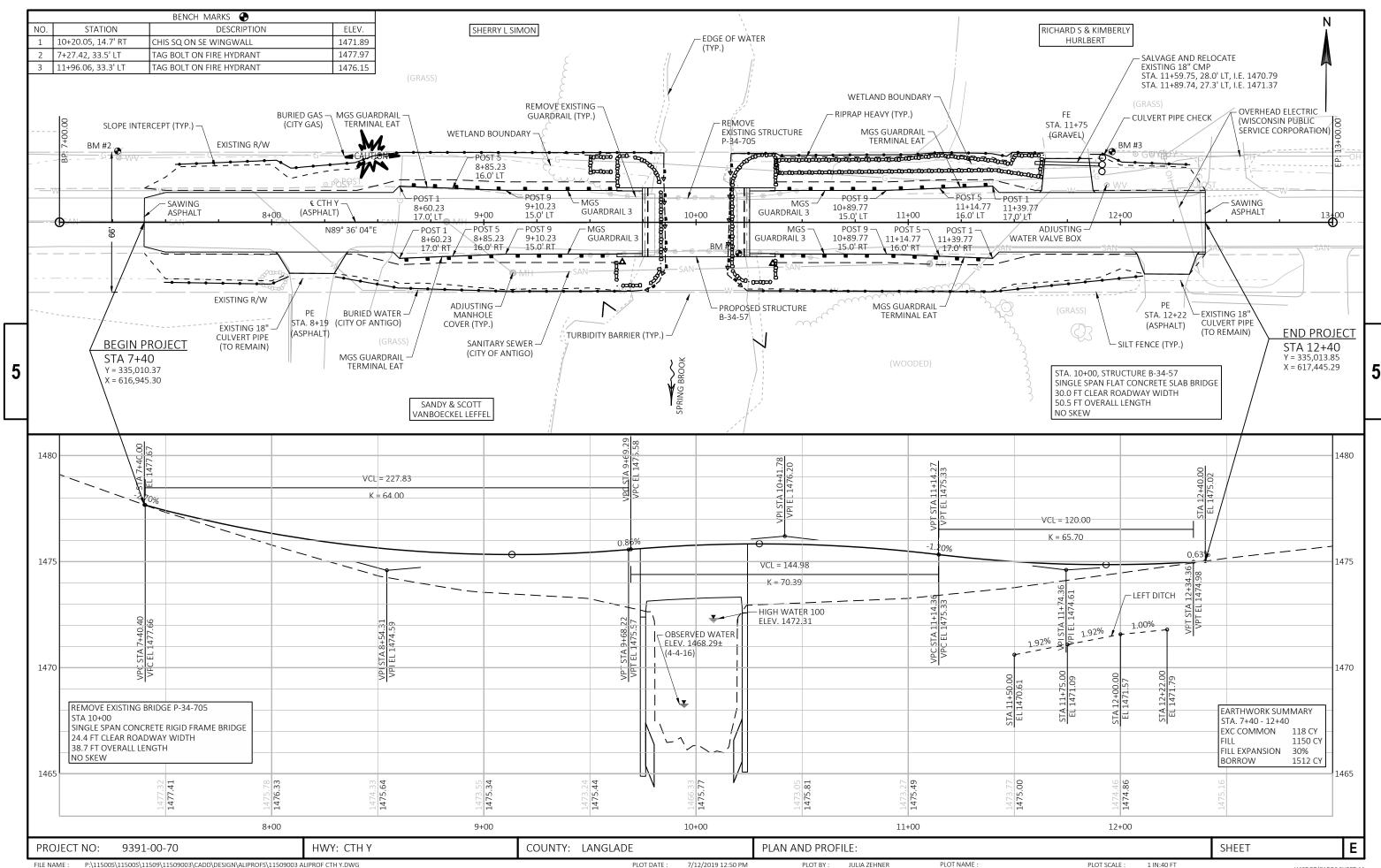
		690.0150 SAWING ASPHALT
STATION	LOCATION	LF
7+40	BEGIN PROJECT	23
8+19	DRIVEWAY RT	21
12+22	DRIVEWAY RT	21
12+40	END PROJECT	30
	TOTAL:	95

ADJUSTING WATER VALVE BOX

CTATION.	LOCATION	SPV.0060.01 ADJUSTING WATER VALVE BOX
STATION	LOCATION	EA
11+94	18' LT	1
	TOTAL:	1

*CATEGORY 0030 ITEM

HWY: CTH Y SHEET Ε PROJECT NO: 9391-00-70 COUNTY: LANGLADE MISCELLANEOUS QUANTITIES



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
08E15-01	CULVERT PIPE CHECK
12A03-10	NAME PLATE (STRUCTURES)
13C19-01	HMA LONGITUDINAL JOINTS
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14в42-06в	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14в45-05н	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15С02-07В	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15c06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

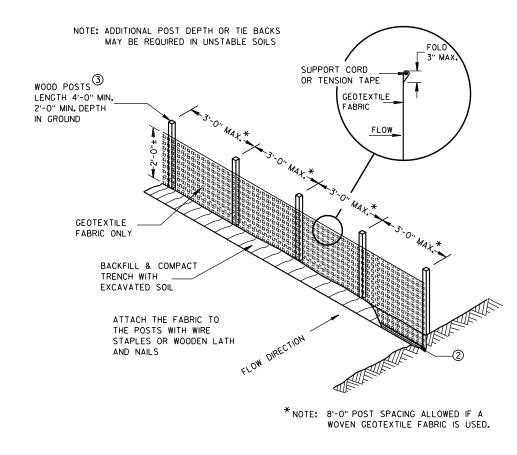
TYPICAL APPLICATION OF SILT FENCE

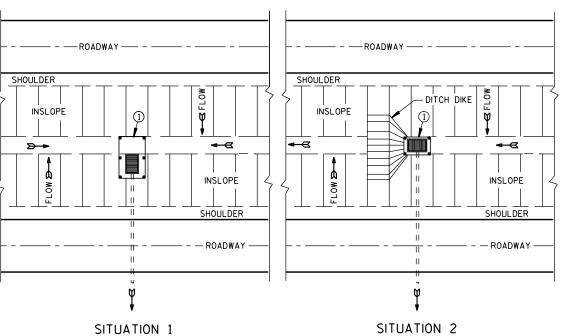
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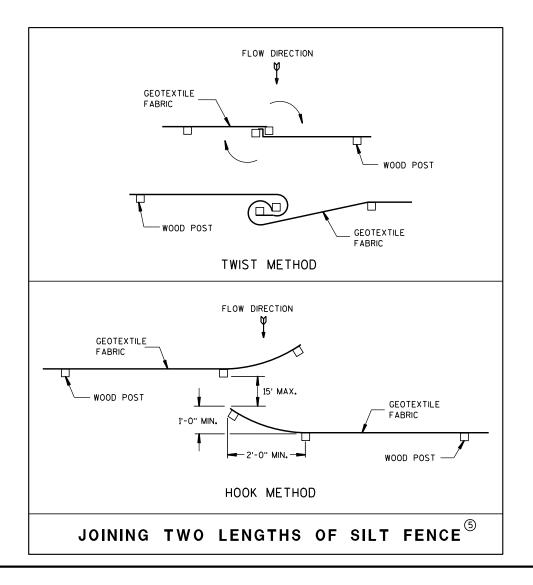
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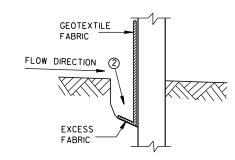
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



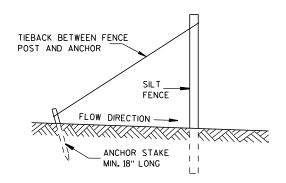
GENERAL NOTES

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

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

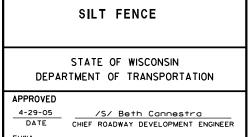


TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

S.D.D. 8 E 9-6

6

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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 WATER ELEVATIONS.
- 2 SANDBAGS 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 FT., 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 THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK 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.





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

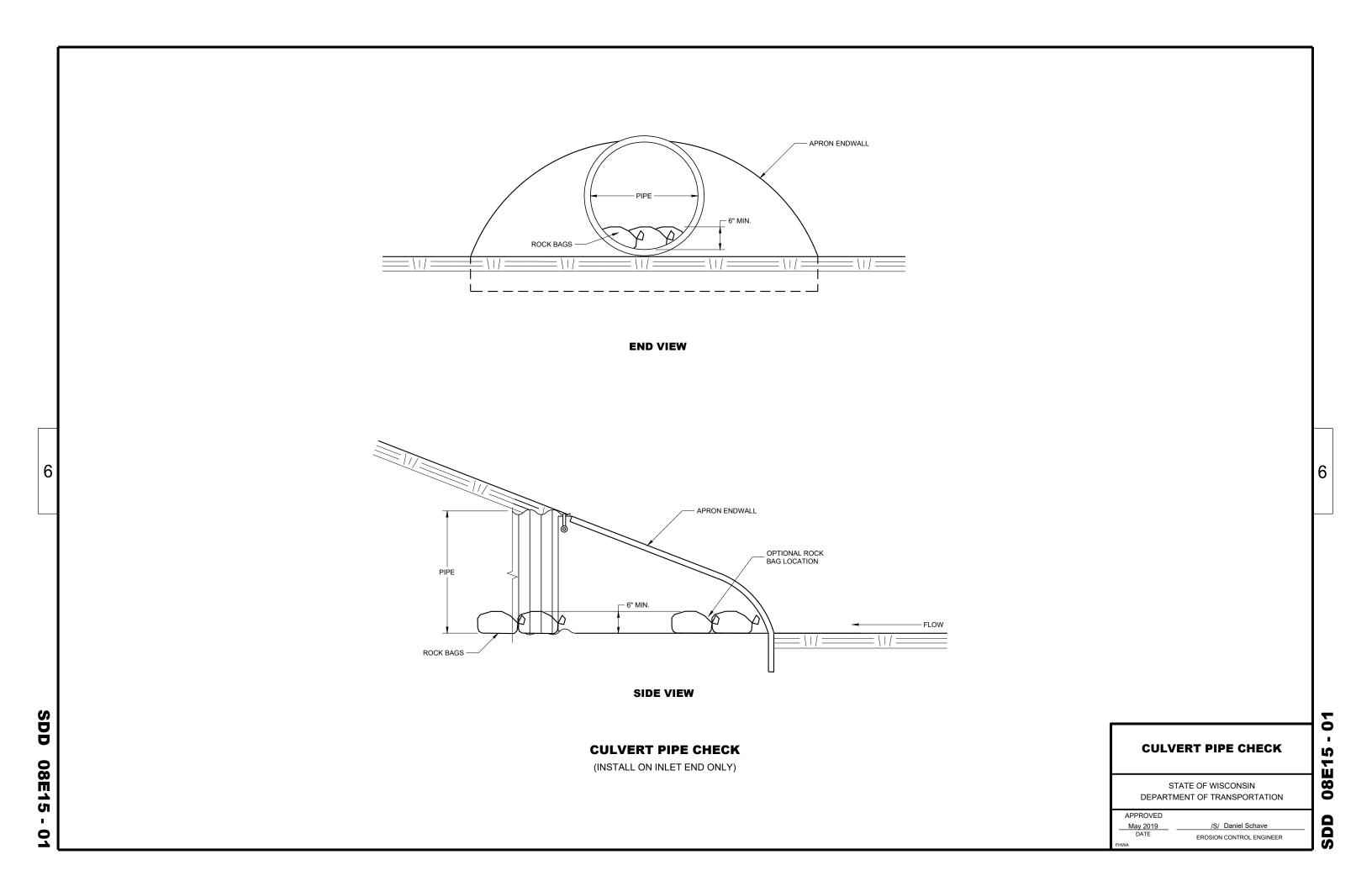
TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER ∞

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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.
- (2) 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

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3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10

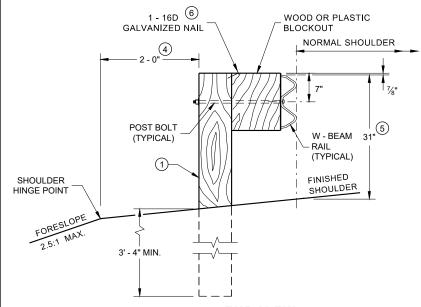
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DEPARTMENT OF TRANSPORTATION

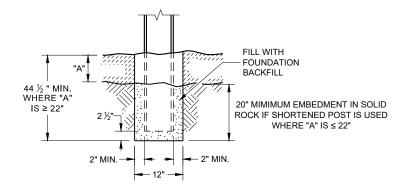
APPROVED

May 2019 DATE /S/ Steven Hefel HMA PAVEMENT ENGINEER

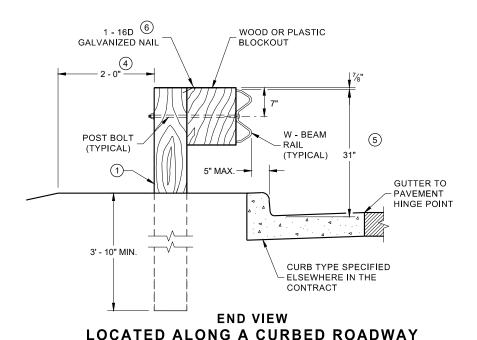
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- 3 IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $_{\mbox{\scriptsize (5)}}$ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS +1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 $^3\!4''$ TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

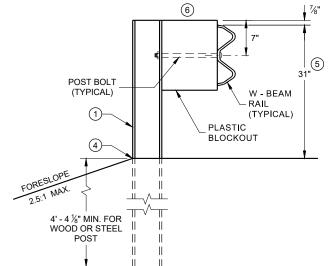


END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION

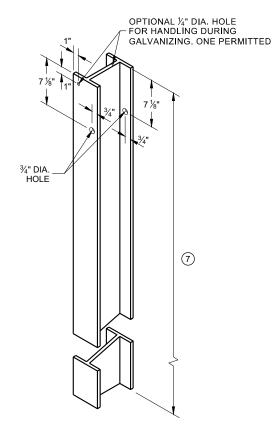


SETTING STEEL OR WOOD POST IN ROCK

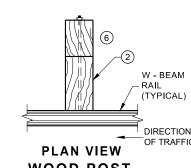




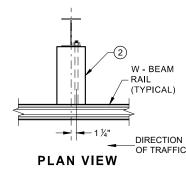




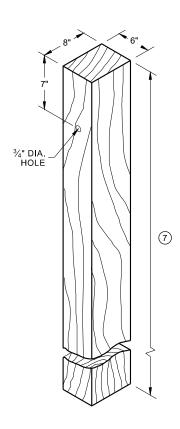
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) ①



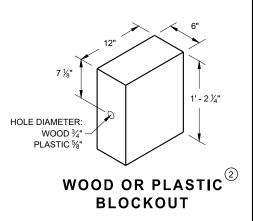
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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FRONT VIEW HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

6' 3" C - C

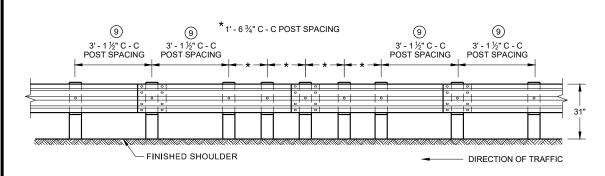
POST SPACING

DIRECTION OF TRAFFIC

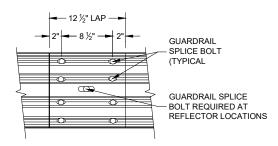
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW **QUARTER POST SPACING (QS)**



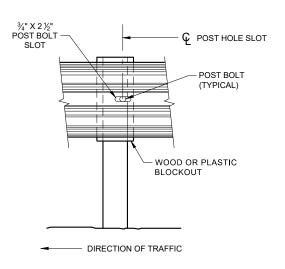
FRONT VIEW MID-SPAN BEAM SPLICE

GENERAL NOTES

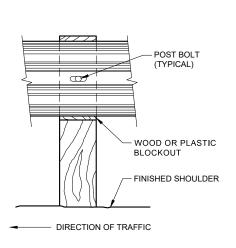
- DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.
- 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BÈ LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

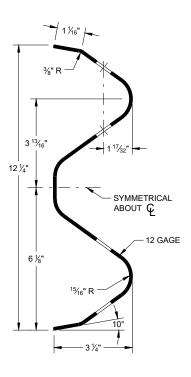
GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



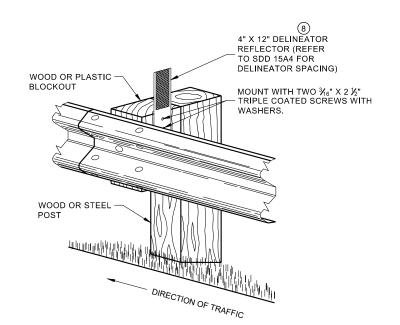
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST







ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

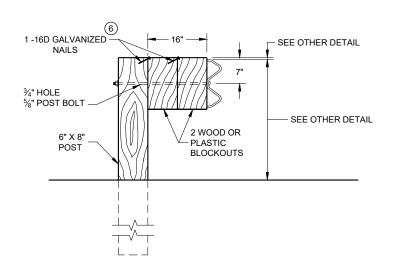
> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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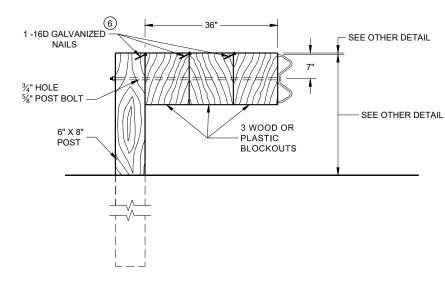
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DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



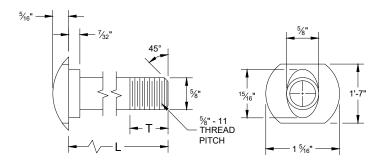
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

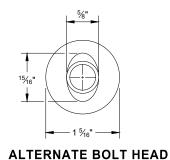
NOTE:

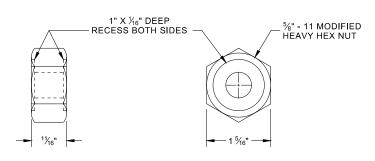
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

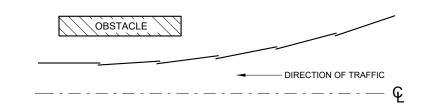
L	T (MIN.)
1 1⁄4"	1 1/4"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



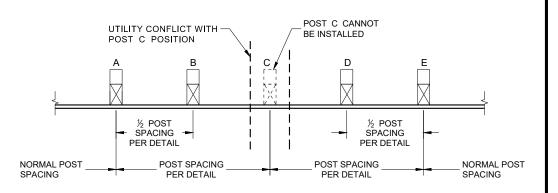


POST BOLT, SPLICE BOLT **AND RECESS NUT**

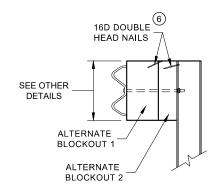
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

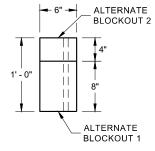


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

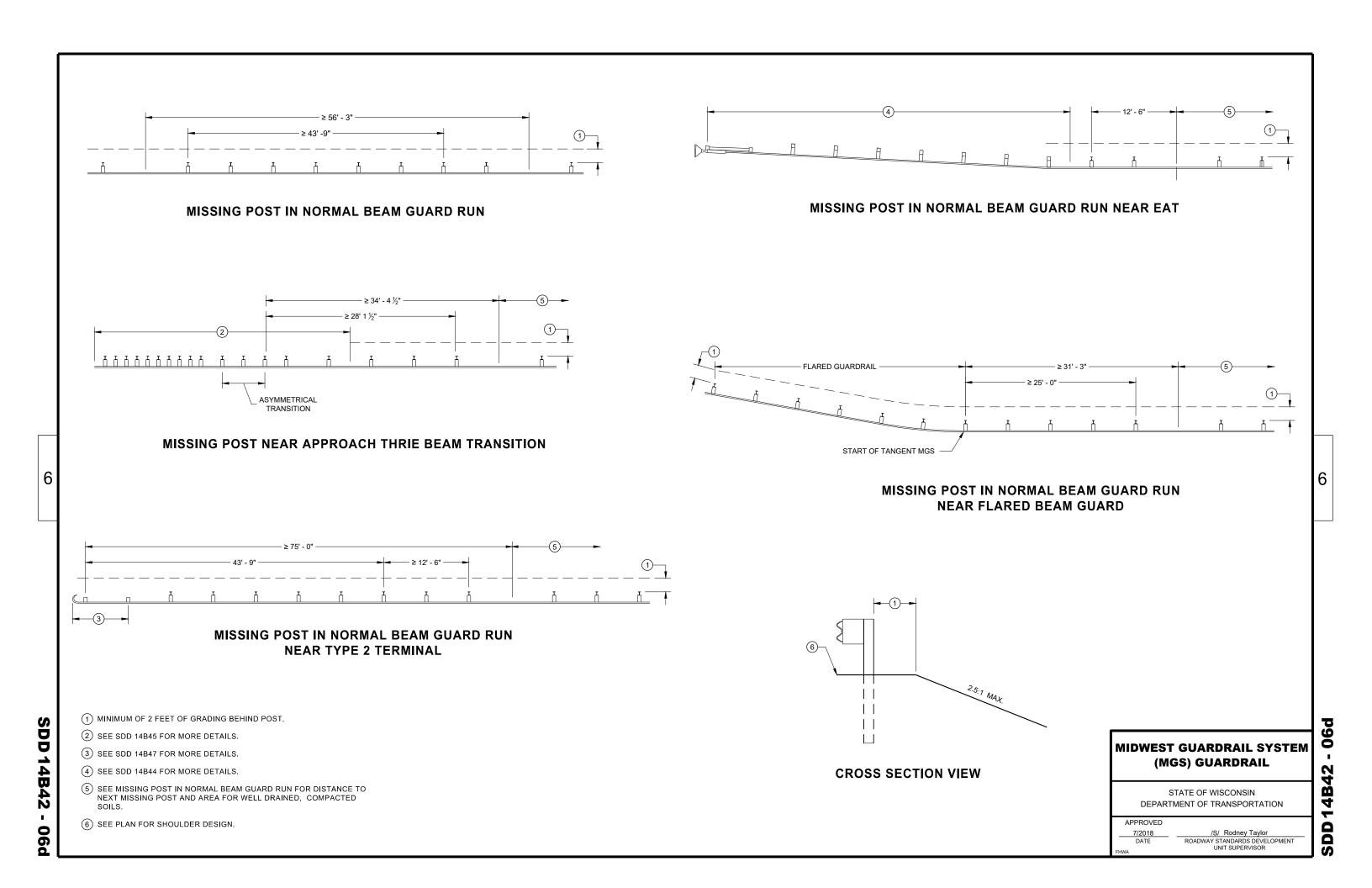
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

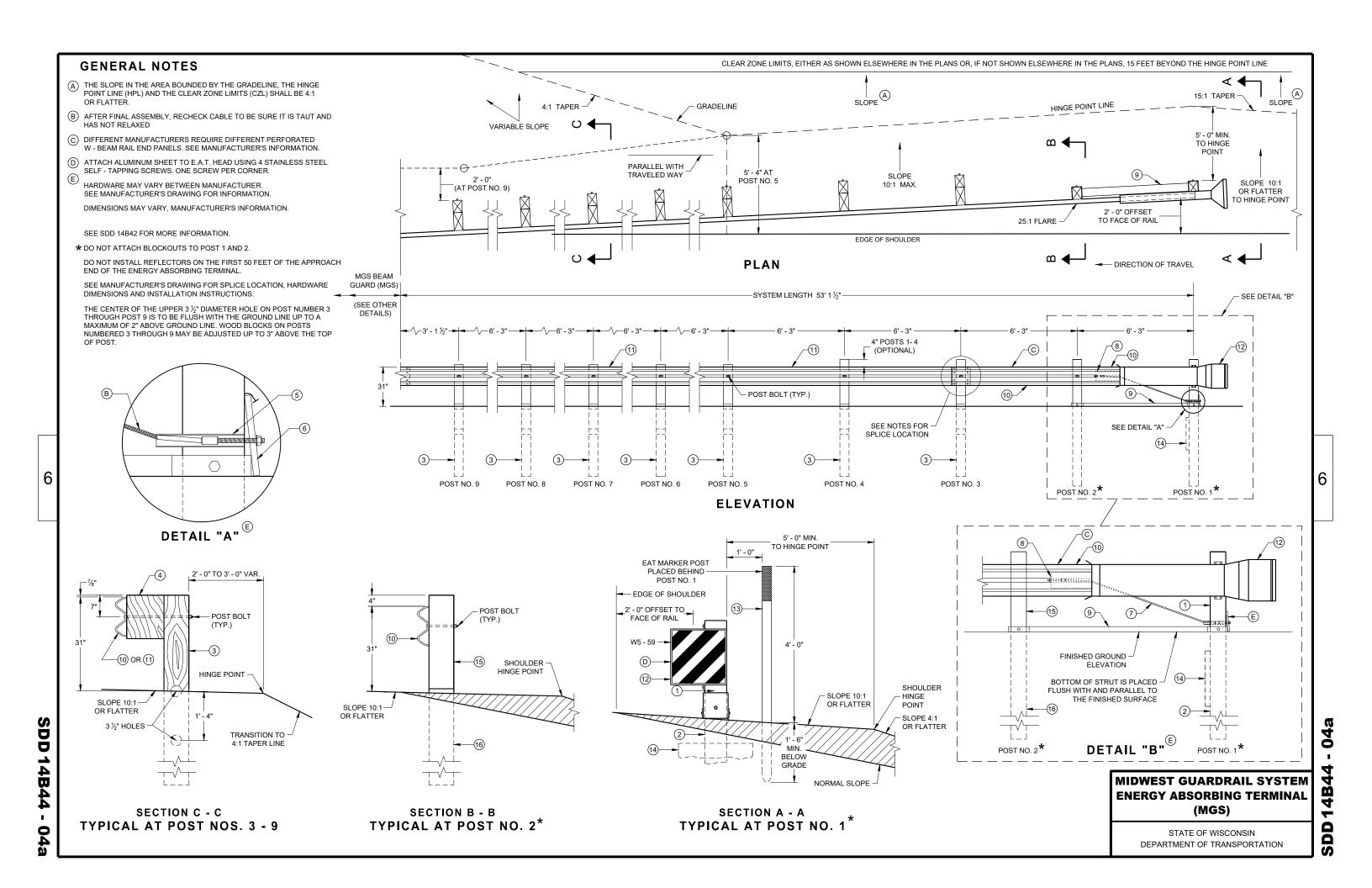
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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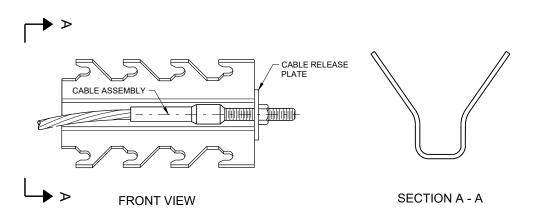
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PLAN VIEW

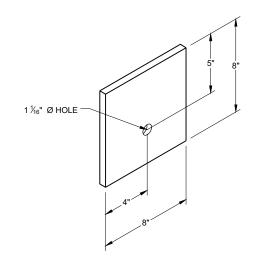




GENERIC GROUND STRUT



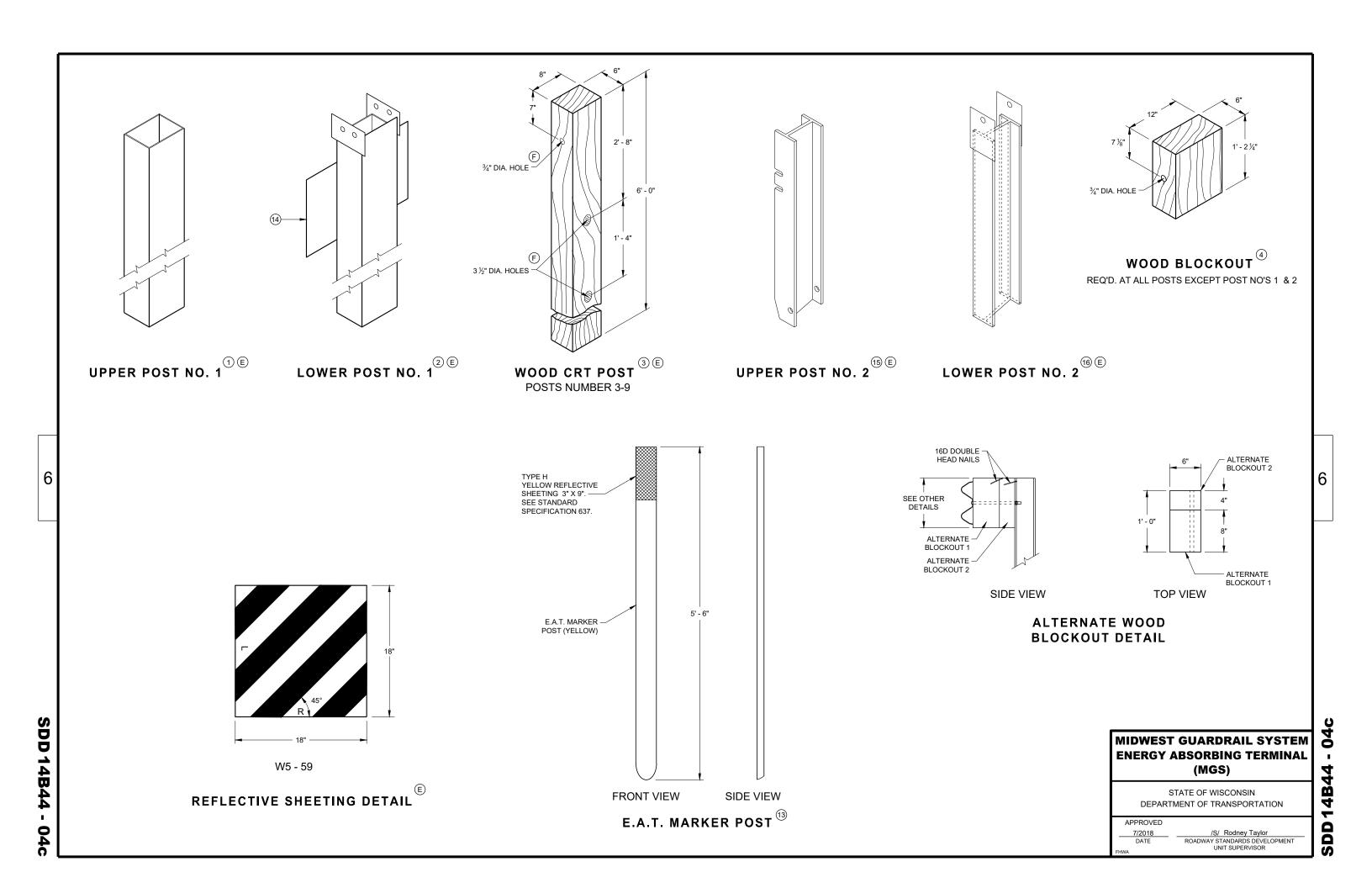
GENERIC ANCHOR CABLE BOX ^{(9) (E)}

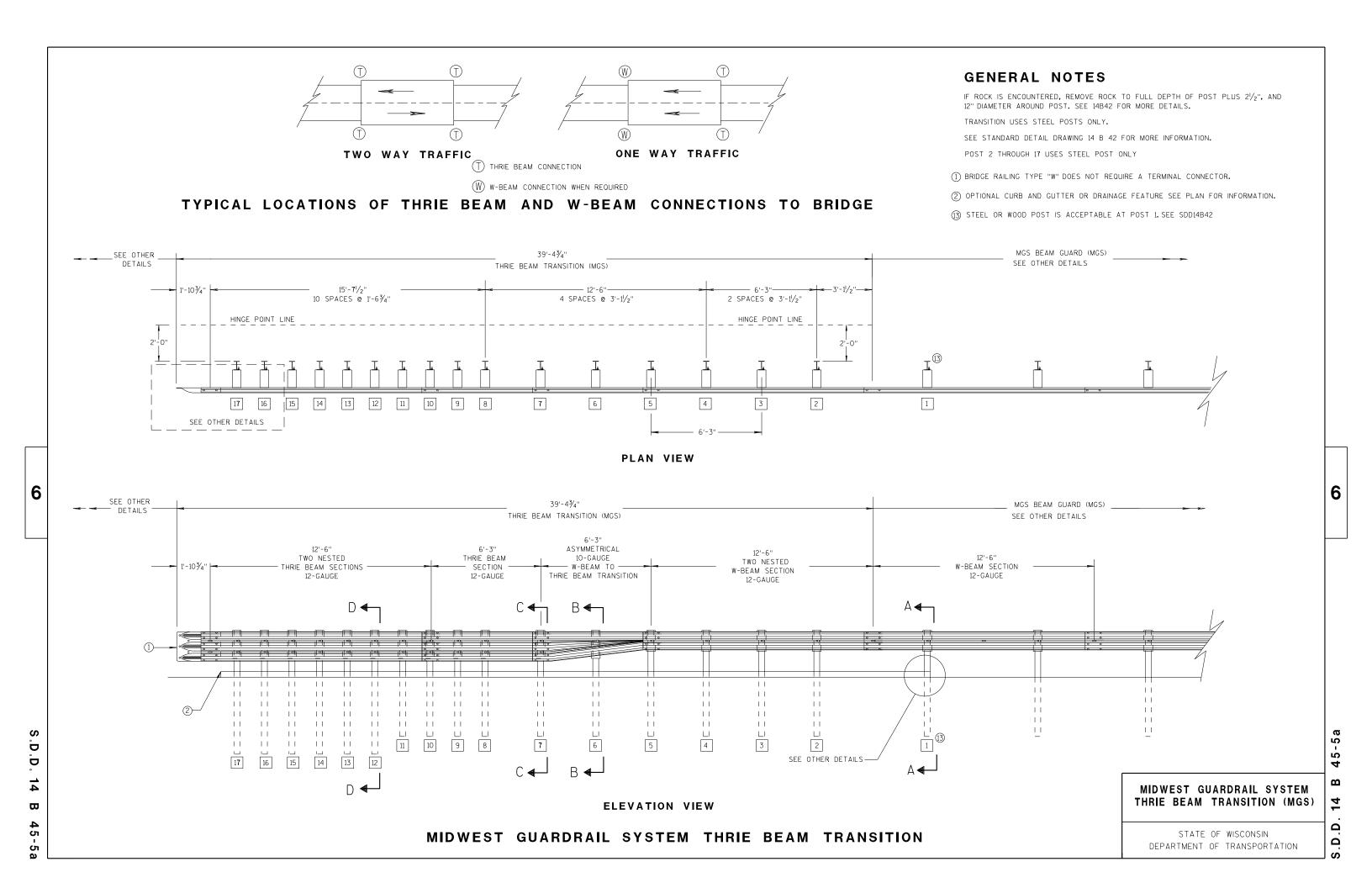


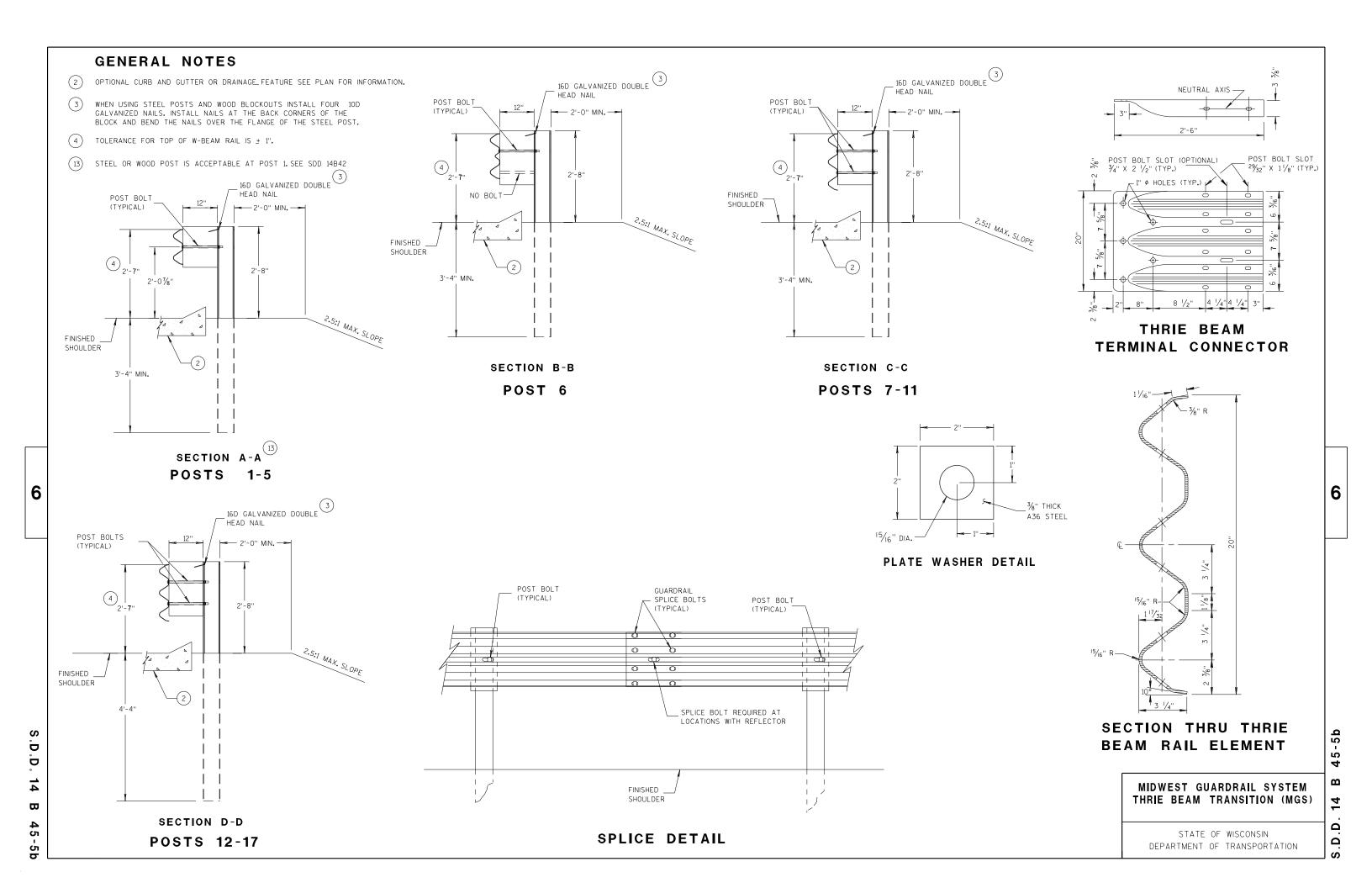
BEARING PLATE

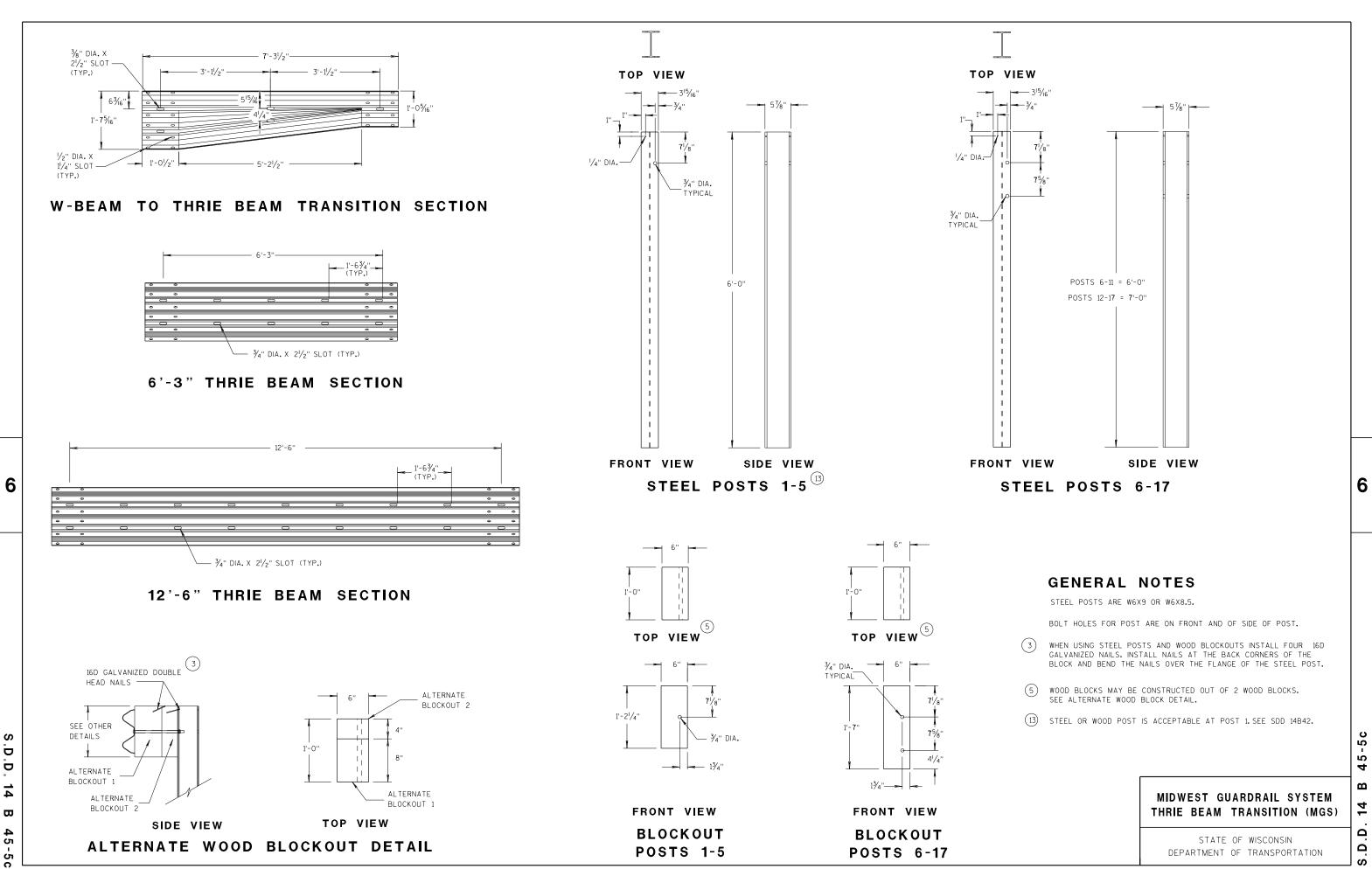
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

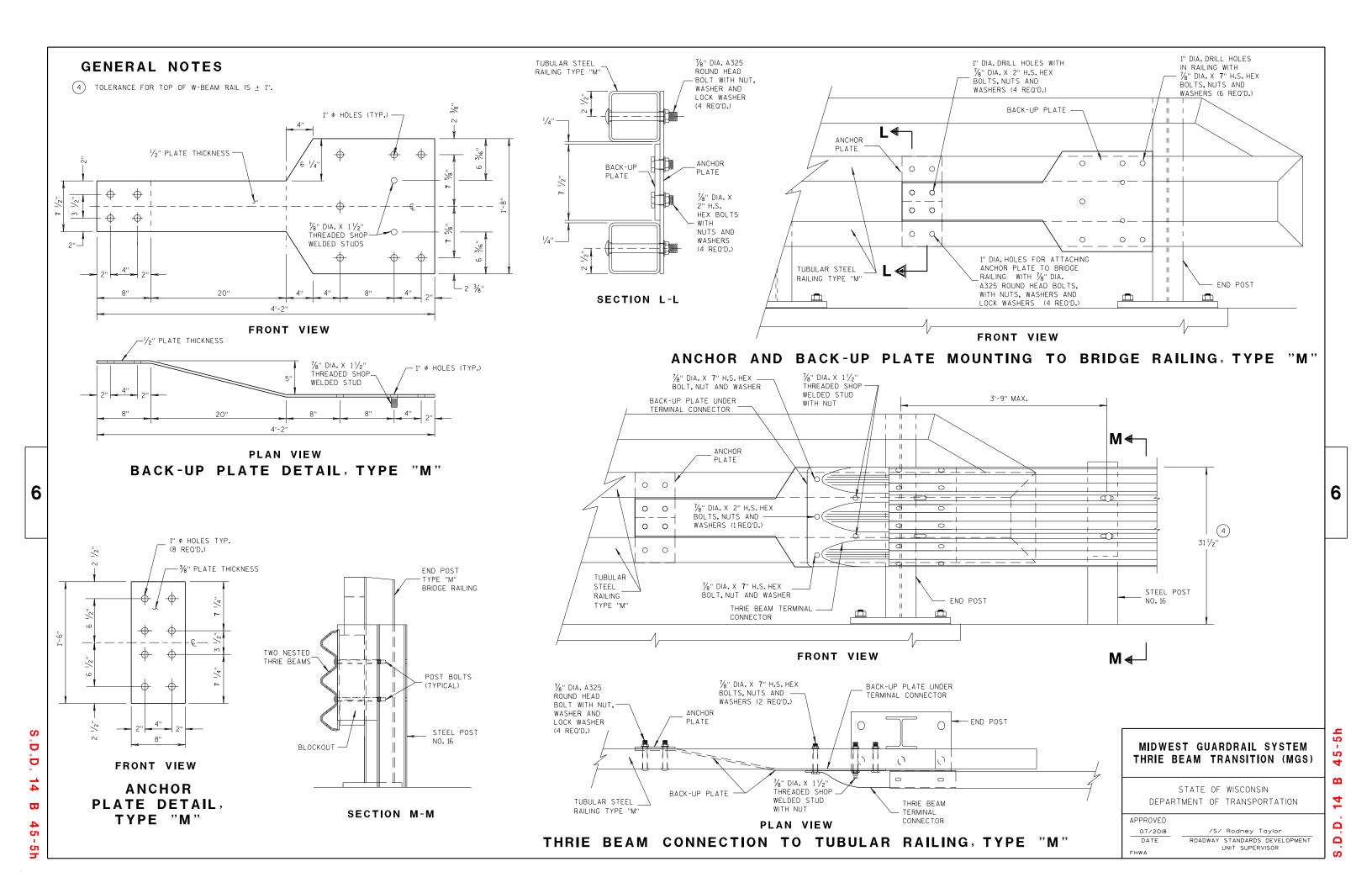
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

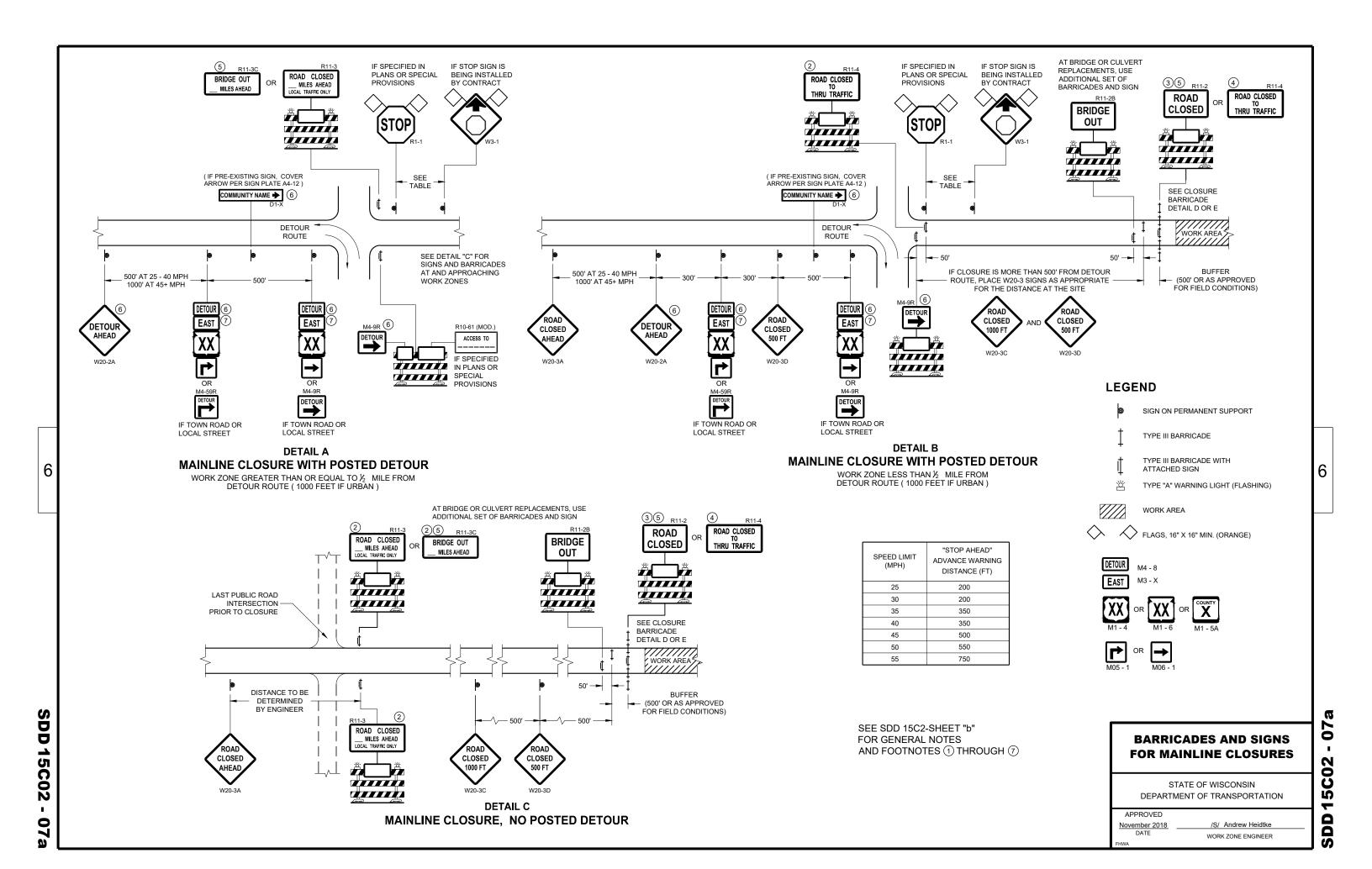


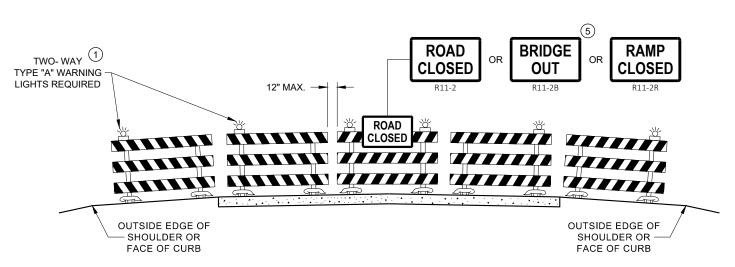




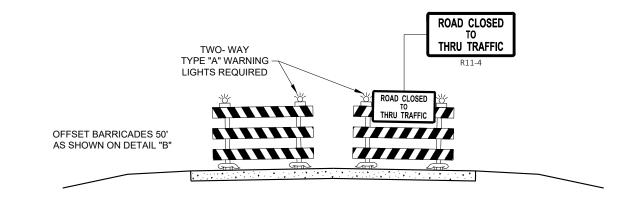








DETAIL D ROAD CLOSURE BARRICADE DETAIL **APPROACH VIEW**



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 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
- "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

November 2018 DATE

WORK ZONE ENGINEER

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TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF	
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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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.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

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 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 /S/ Andrew Heidtke DATE WORK ZONE ENGINEER FHWA

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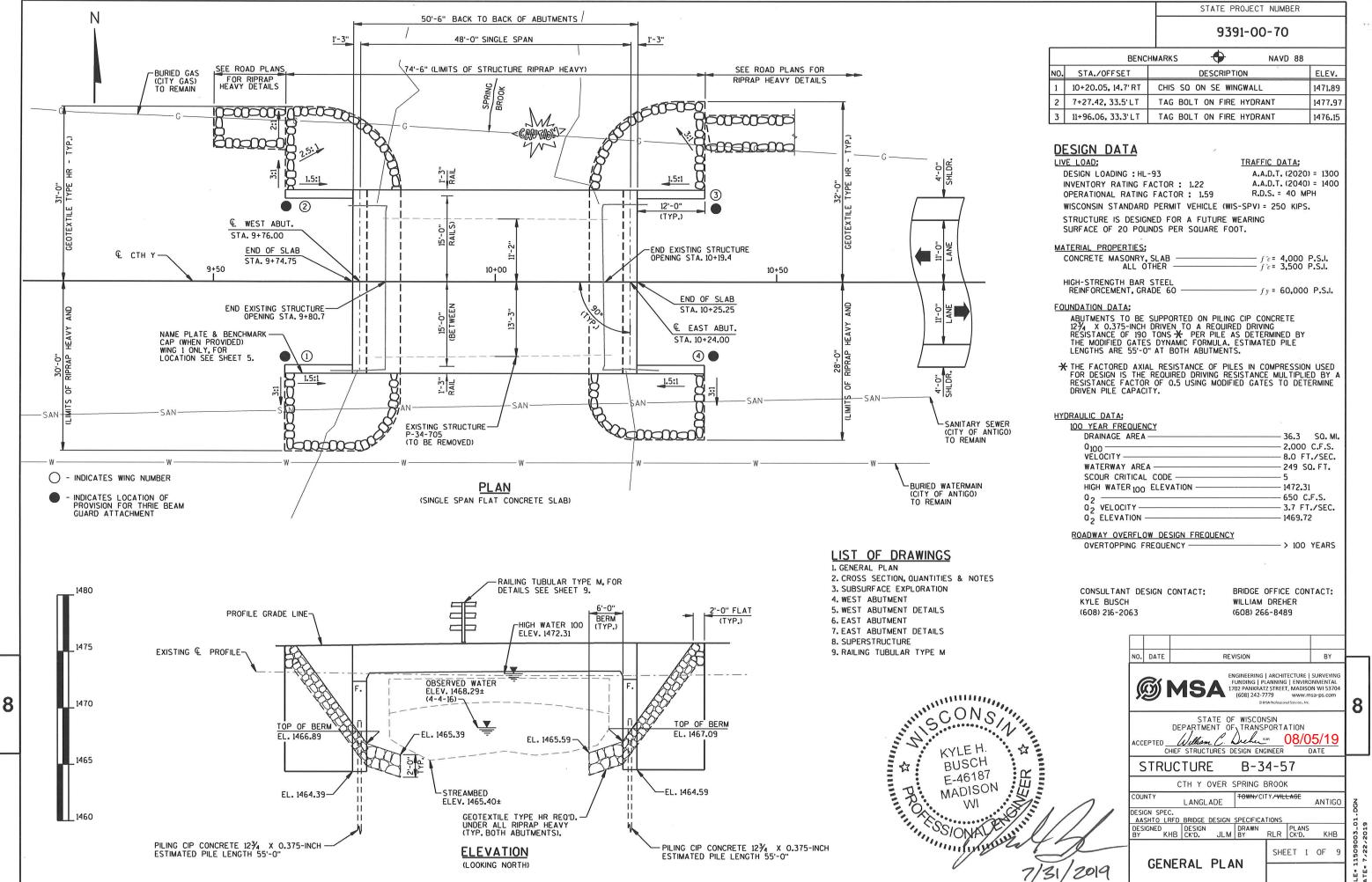
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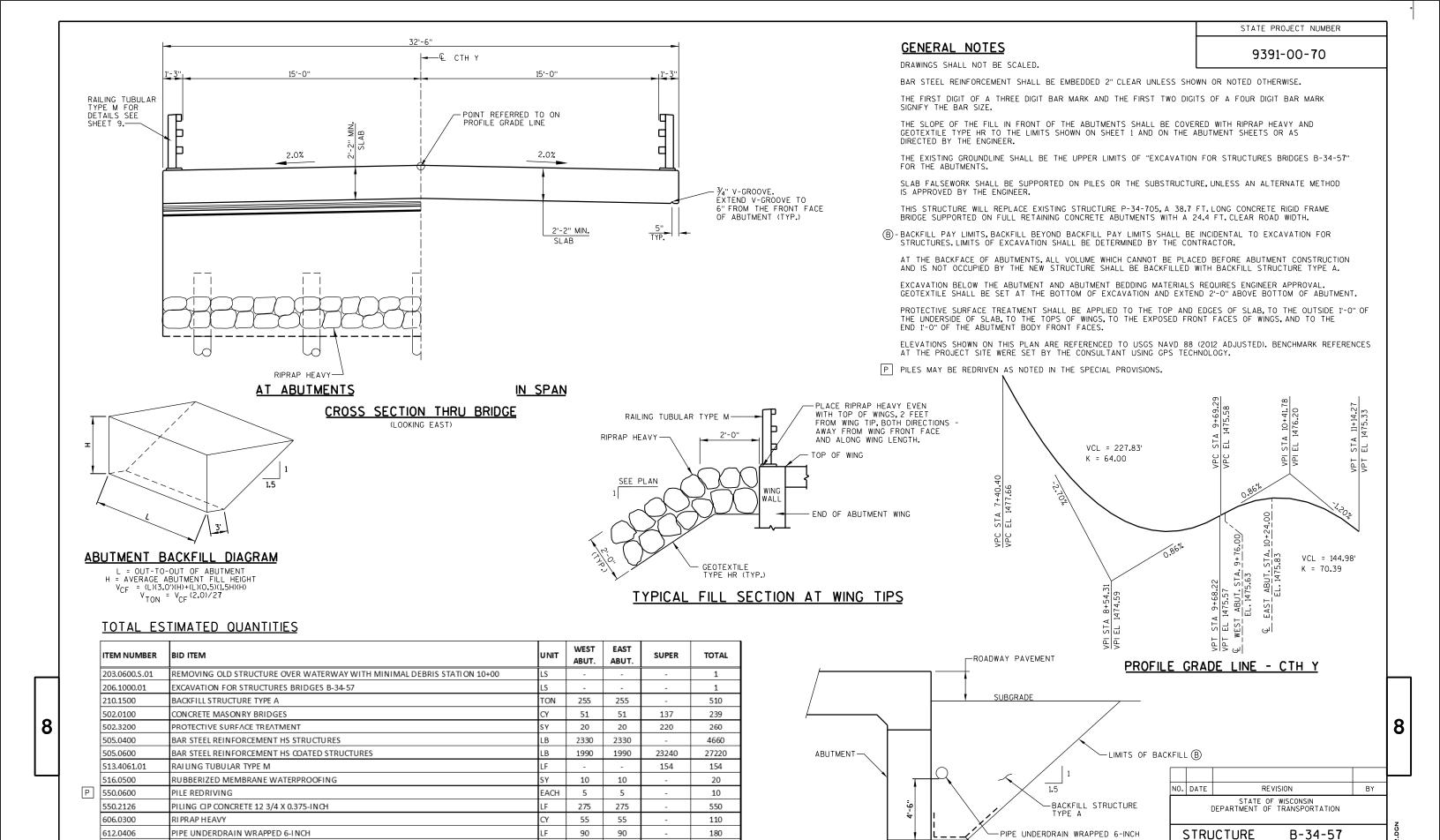
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185

1/2" & 3/4"

-"GEOTEXTILE TYPE DF SCHEDULE A" LIMITS, EXTEND 2'-O" ABOVE BOTTOM

REO'D.

STRUCTURE BACKFILL DETAIL

DRAWN BY RLR

CROSS SECTION,

QUANTITIES

& NOTES

KHB

SHEET 2 OF

40

93

SIZE

40

92

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GEOTEXTILE TYPE DF SCHEDULE A

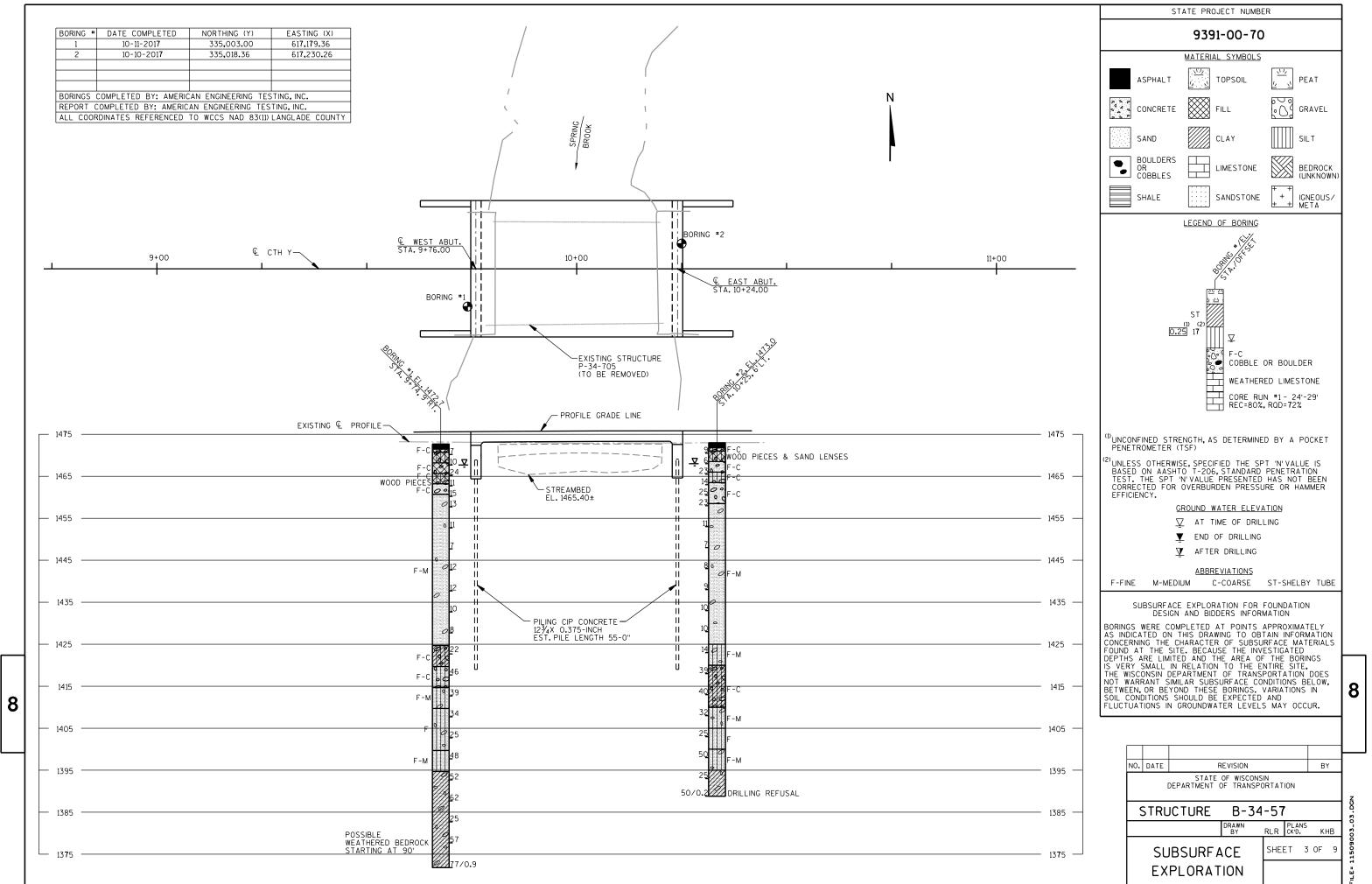
GEOTEXTILE TYPE HR

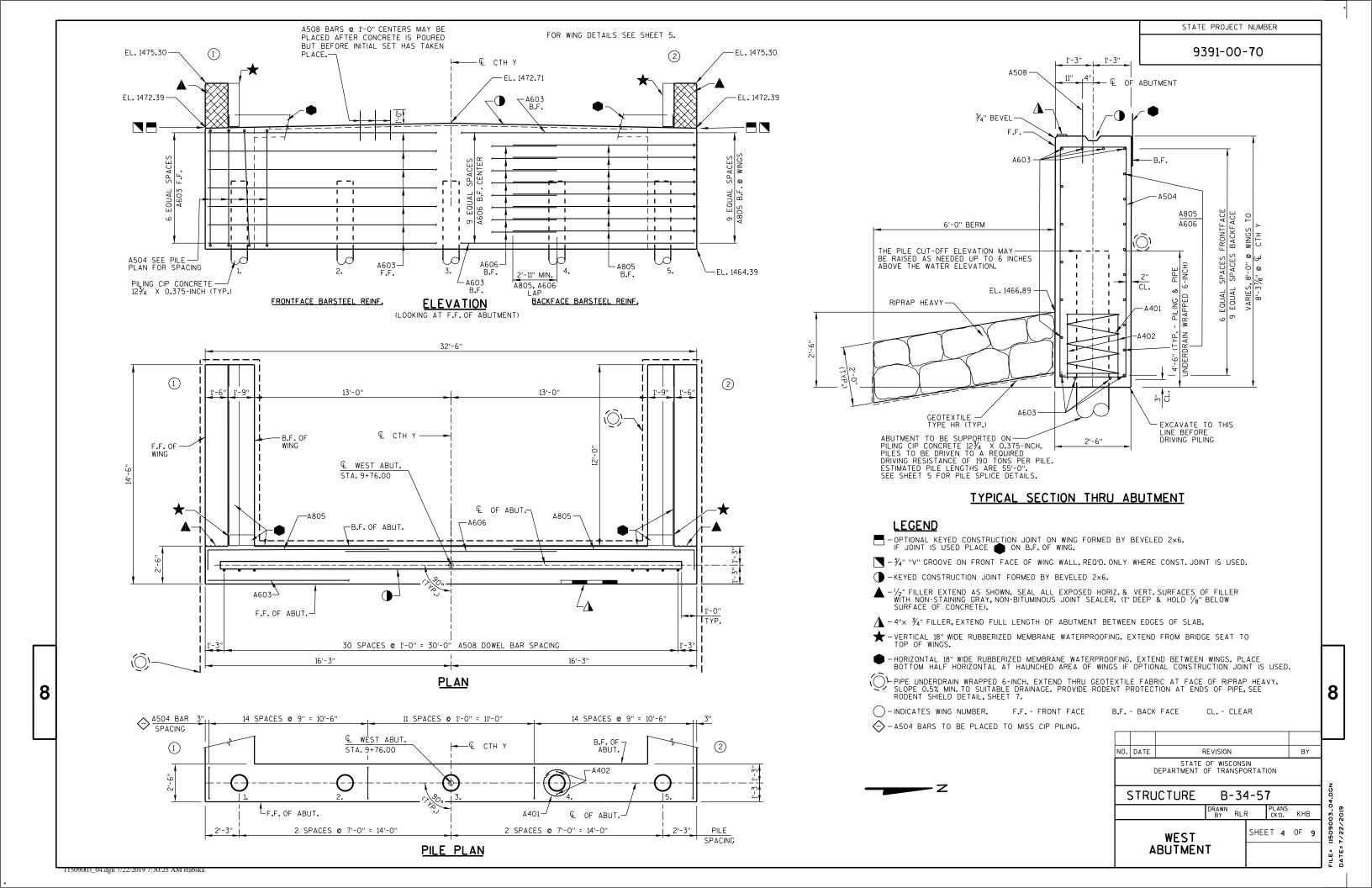
PREFORMED FILLER

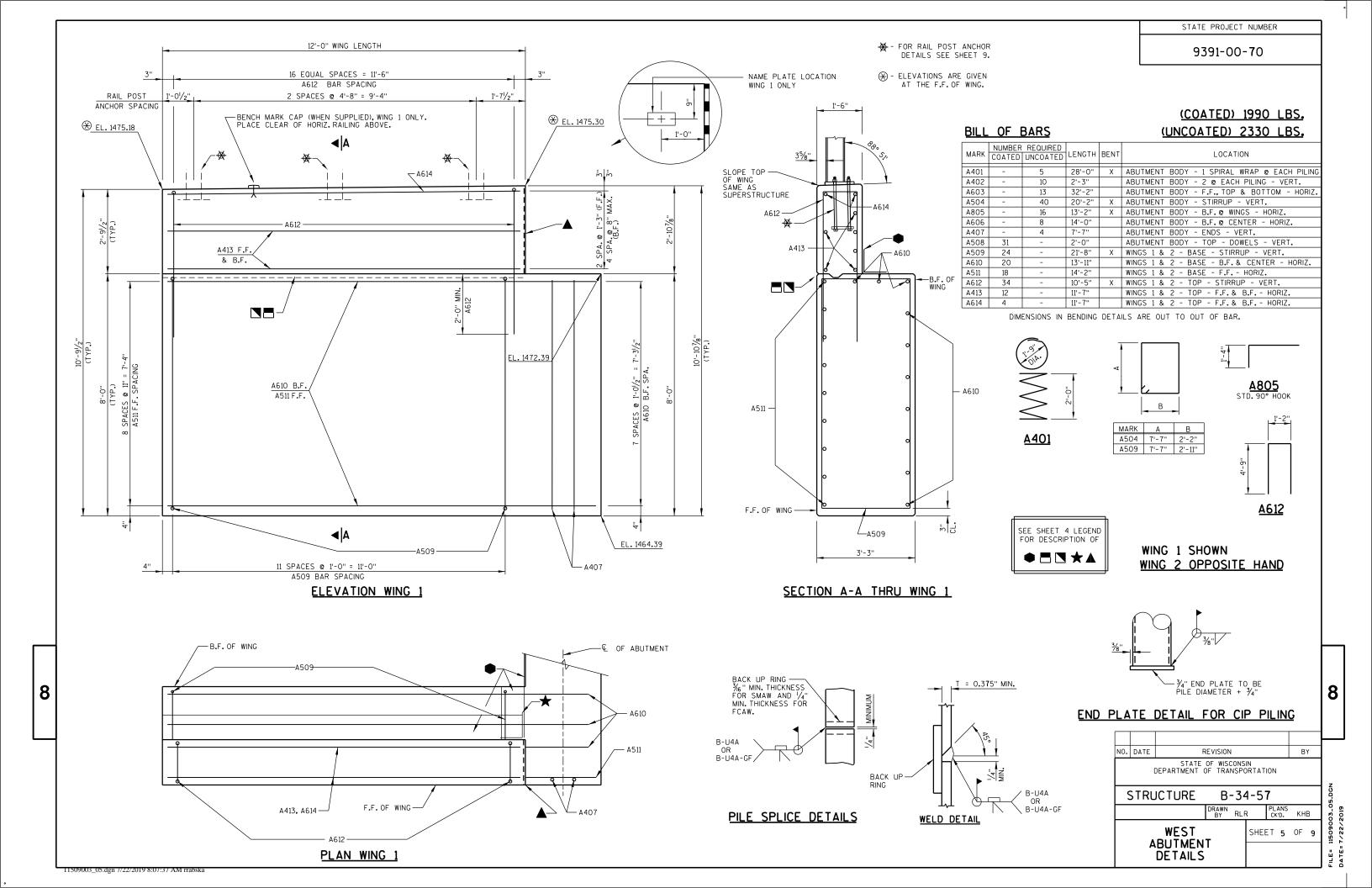
NON-BID ITEMS

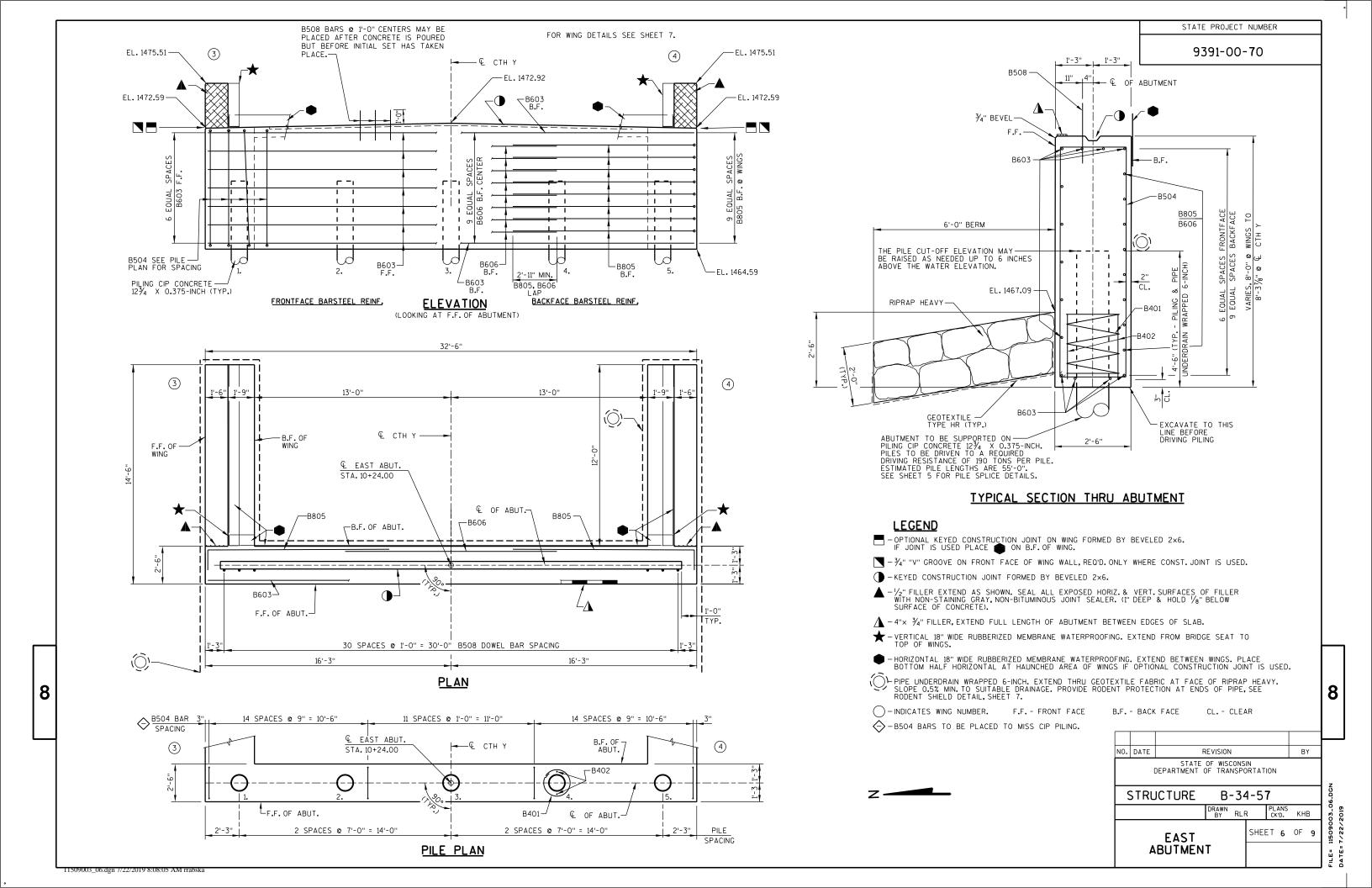
645.0111

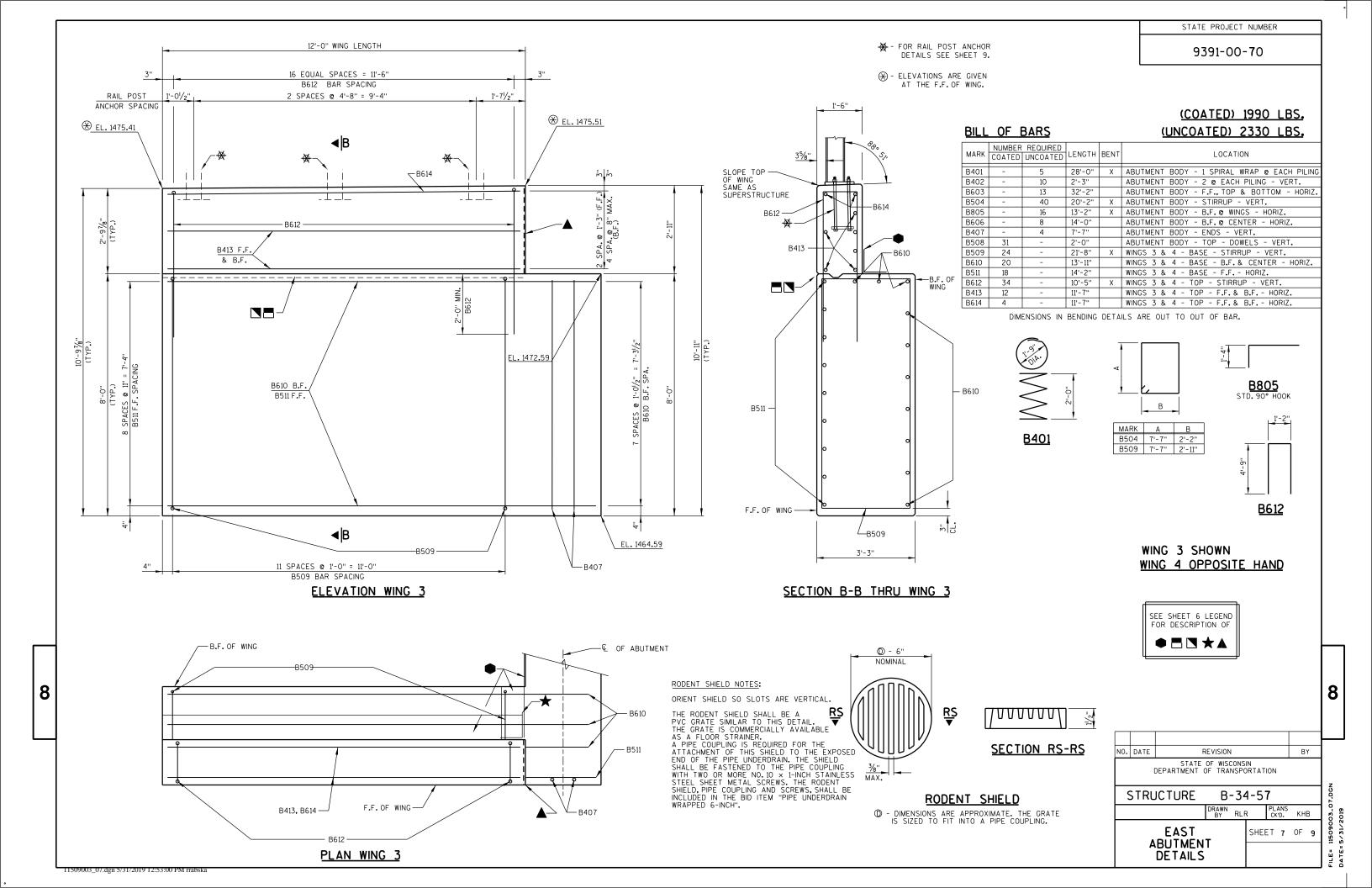
645.0120

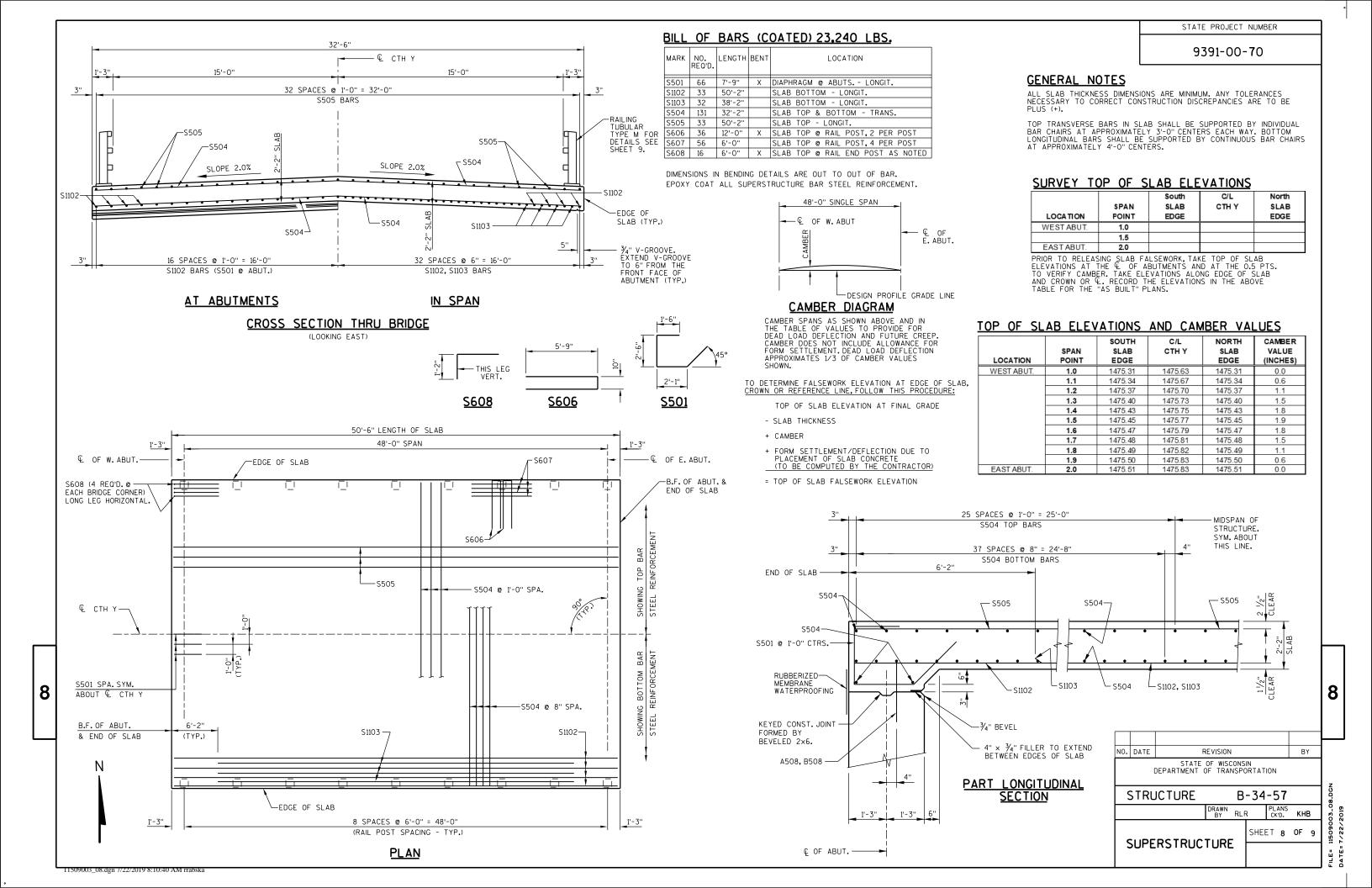


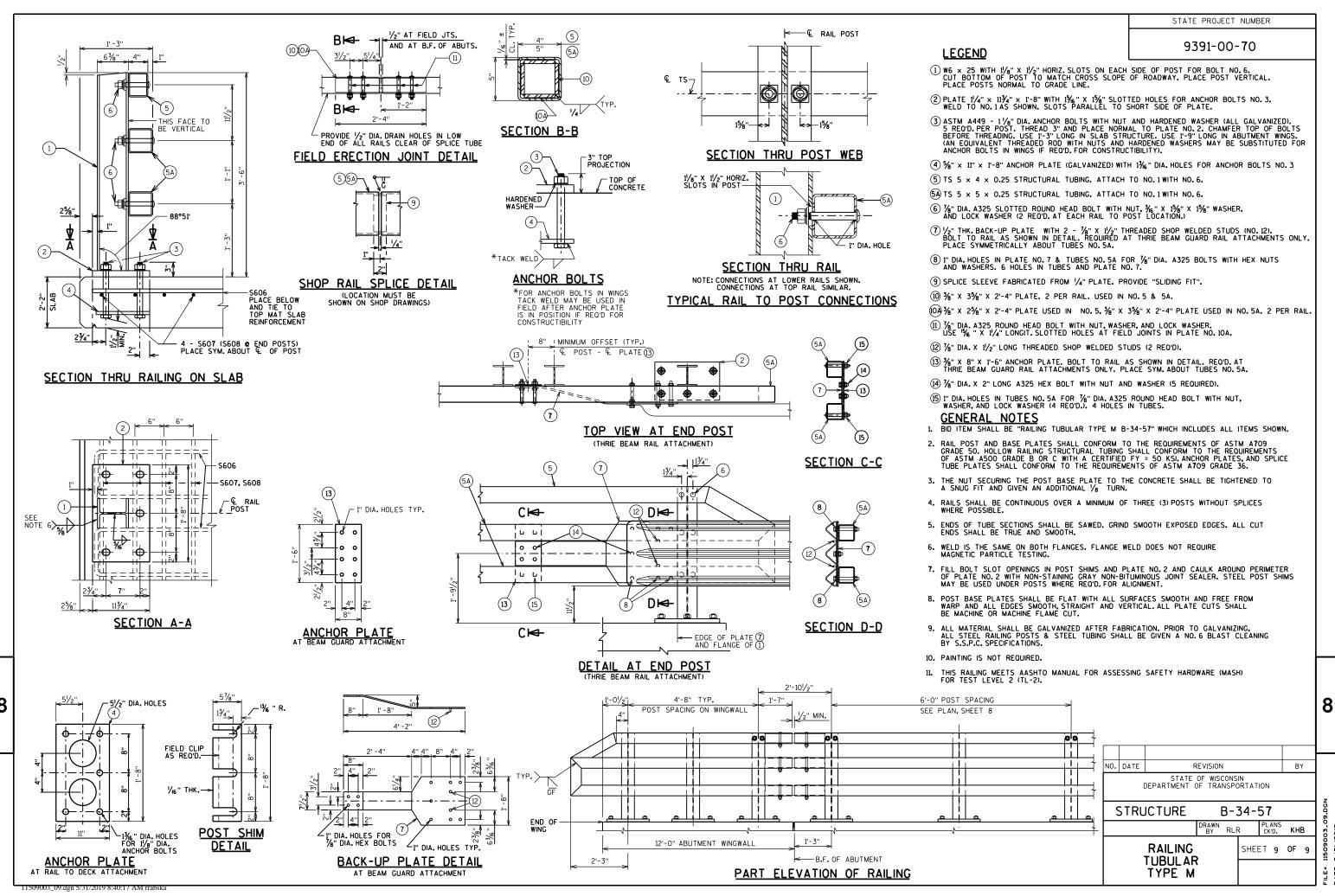












PROJECT I.D. 9391-00-70 EARTHWORK SUMMARY

STA	EXCAVATION COMMON CY	EXCAVATION ROCK CY	FILL (1) CY	EXPANDED FILL (2) CY	UNUSABLE PAVEMENT CY	WASTE CY	BORROV CY
7+40.00	O1	O i	Ci	<u> </u>	O T	Ci	Ci
1140.00	22	0	1	1	14	21	-7
7+56.00							
	61	0	17	22	39	39	0
8+00.00							
0.40.00	23	0	14	18	18	18	13
8+19.00	33	0	43	56	28	28	51
8+50.00	33	O	43	30	20	20	31
0.00.00	10	0	21	27	8	8	25
8+60.00							
	25	0	61	79	21	21	75
8+85.00		_					
0.40.00	25	0	76	99	21	21	95
9+10.00	41	0	160	208	35	35	202
9+50.00	41	O	100	200	35	33	202
3400.00	26	0	108	140	23	23	137
9+74.75							
		STRUCTURE	B-34-57				
10+25.25		_					
40 - 50 00	26	0	124	161	22	22	157
10+50.00	41	0	187	243	35	35	237
10+90.00	71	Ü	107	240	30	33	201
	25	0	100	130	21	21	126
11+15.00							
	24	0	80	104	21	21	101
11+40.00	10	0	0.4	24	8	0	20
11+50.00	10	U	24	31	8	8	29
11700.00	26	0	37	48	21	21	43
11+75.00					•		
	27	0	21	27	21	21	21
12+00.00]	
40.00.00	26	0	11	14	19	19	7
12+22.00	22	0	2	3	16	19	-3
12+40.00	22	U	2	3	10	19	-3
SUBTOTALS							
WEST APPROACH	266	0	501	650	207	214	591
EAST APPROACH	227	0	586	761	184	187	718
TOTALS	493	0	1087	1411	391	401	1309

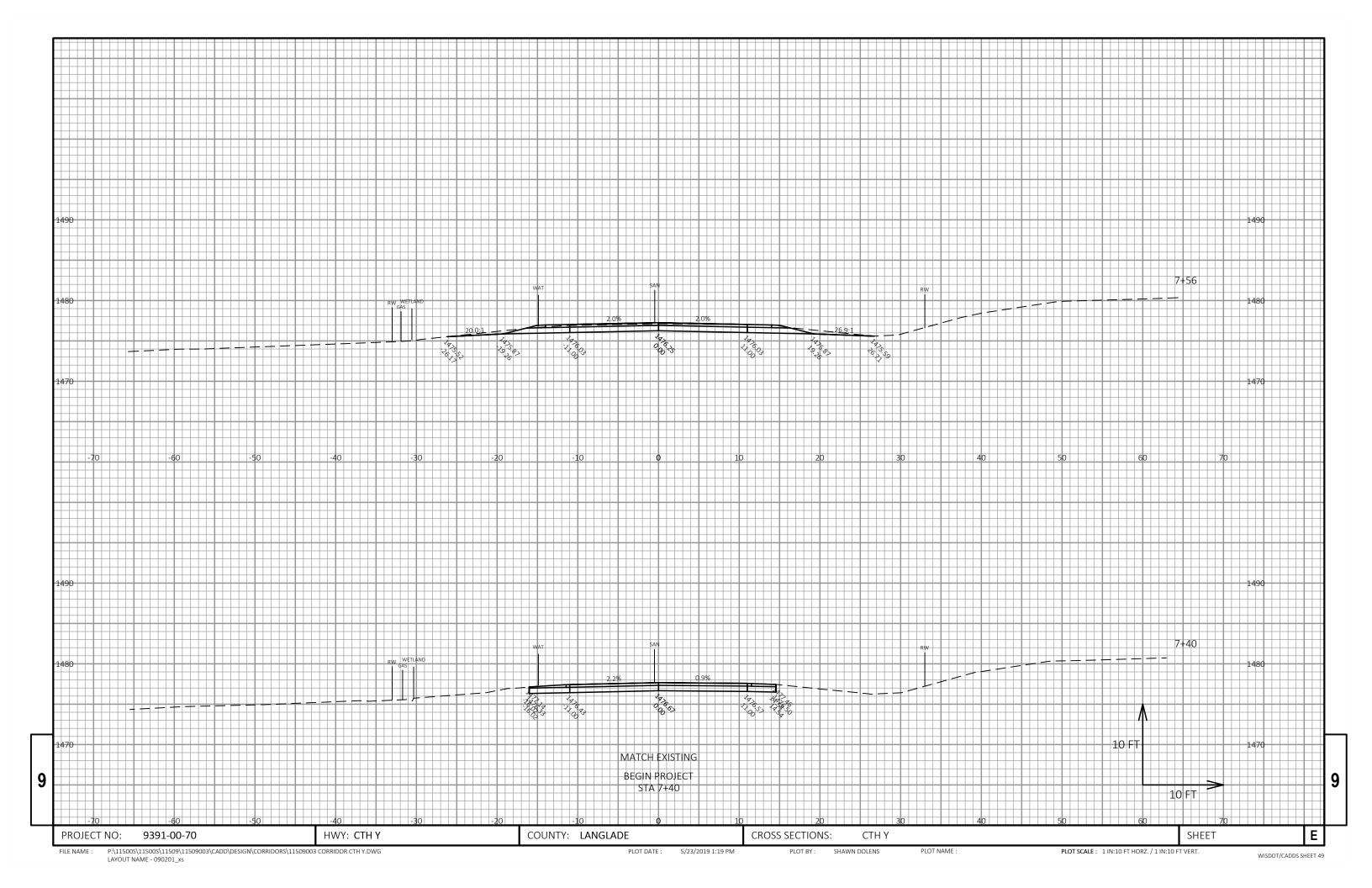
E PROJECT NO: 9391-00-70 HWY: CTH Y COUNTY: LANGLADE EARTHWORK: SHEET

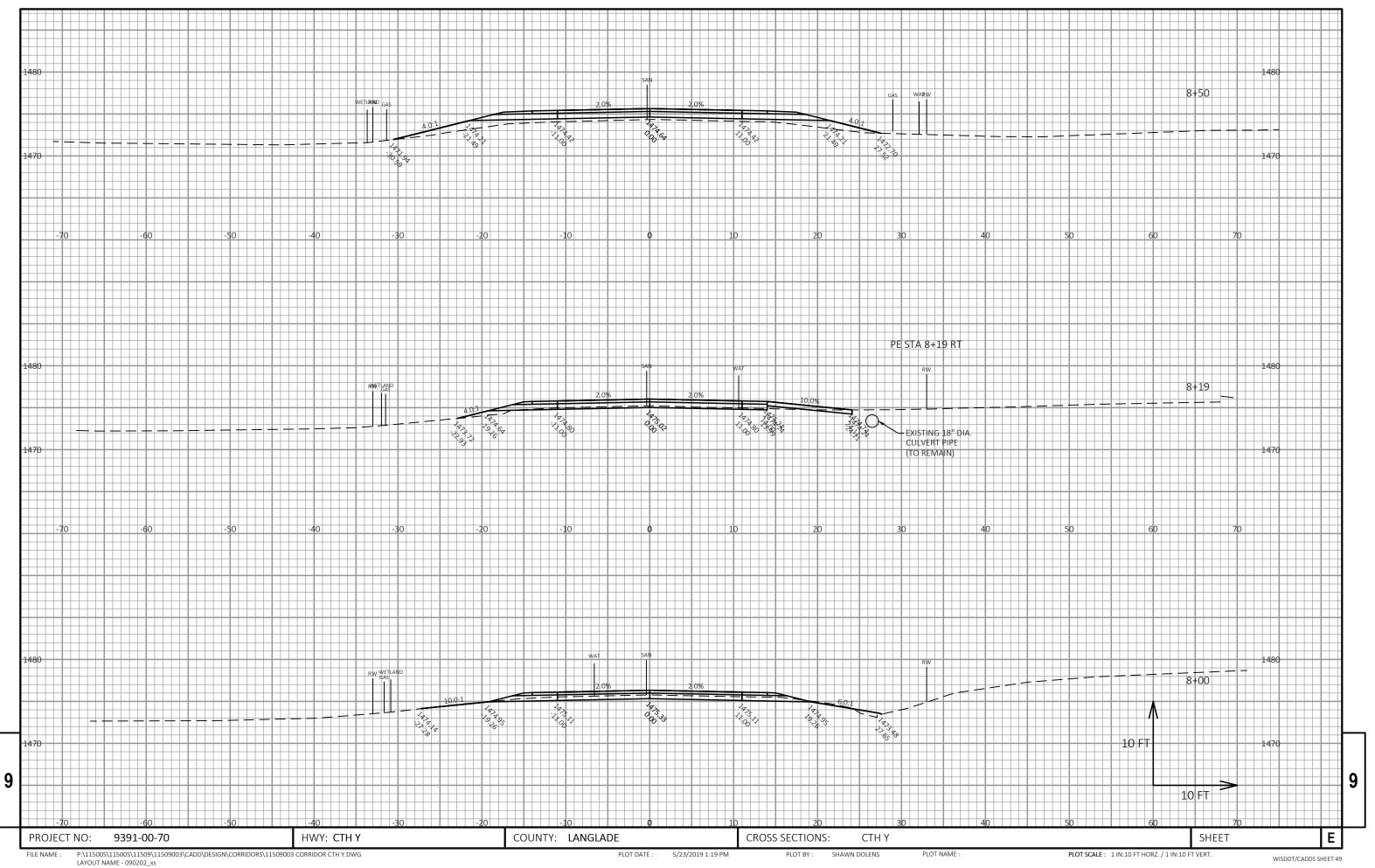
PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

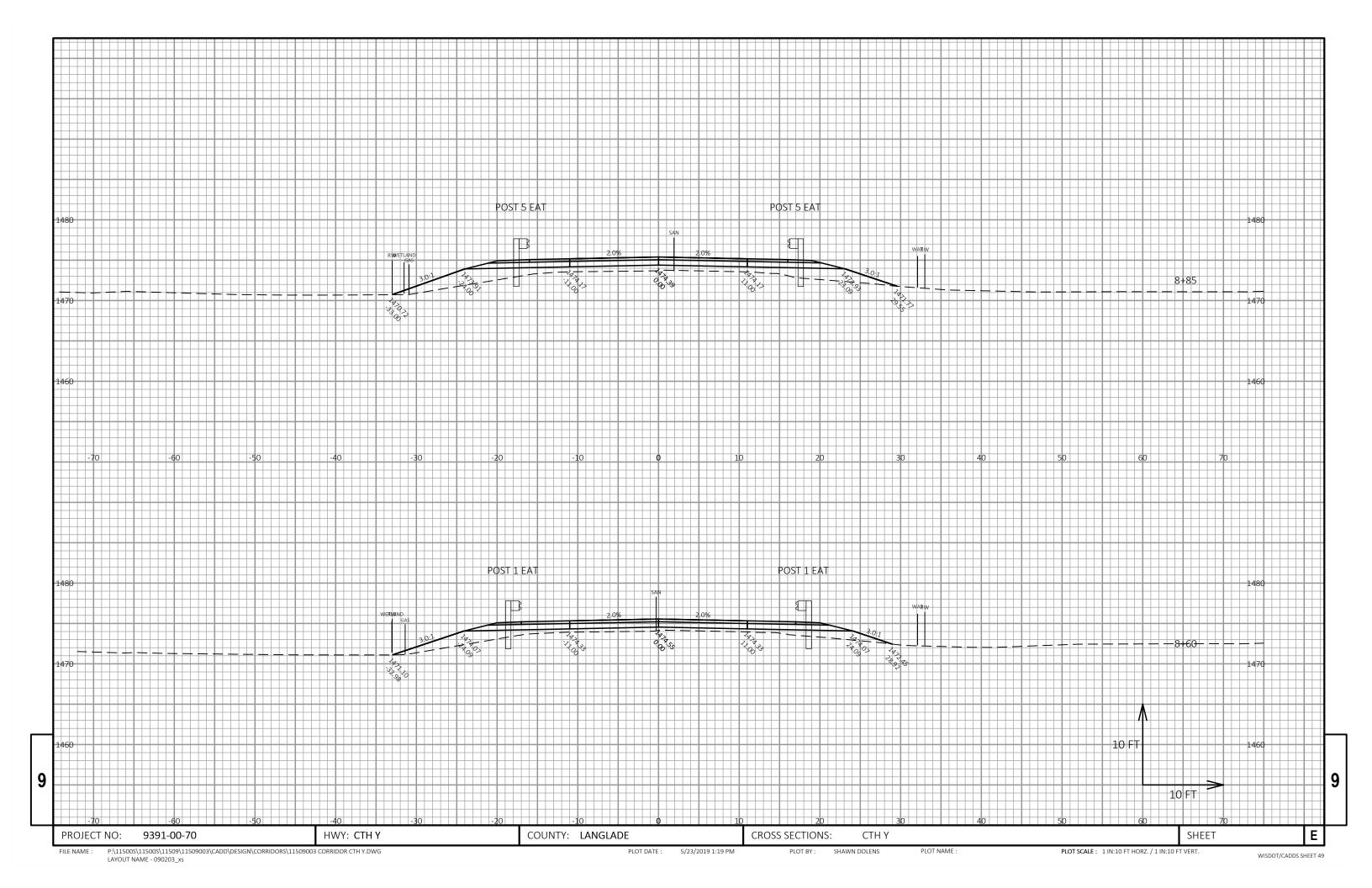
PLOT NAME :

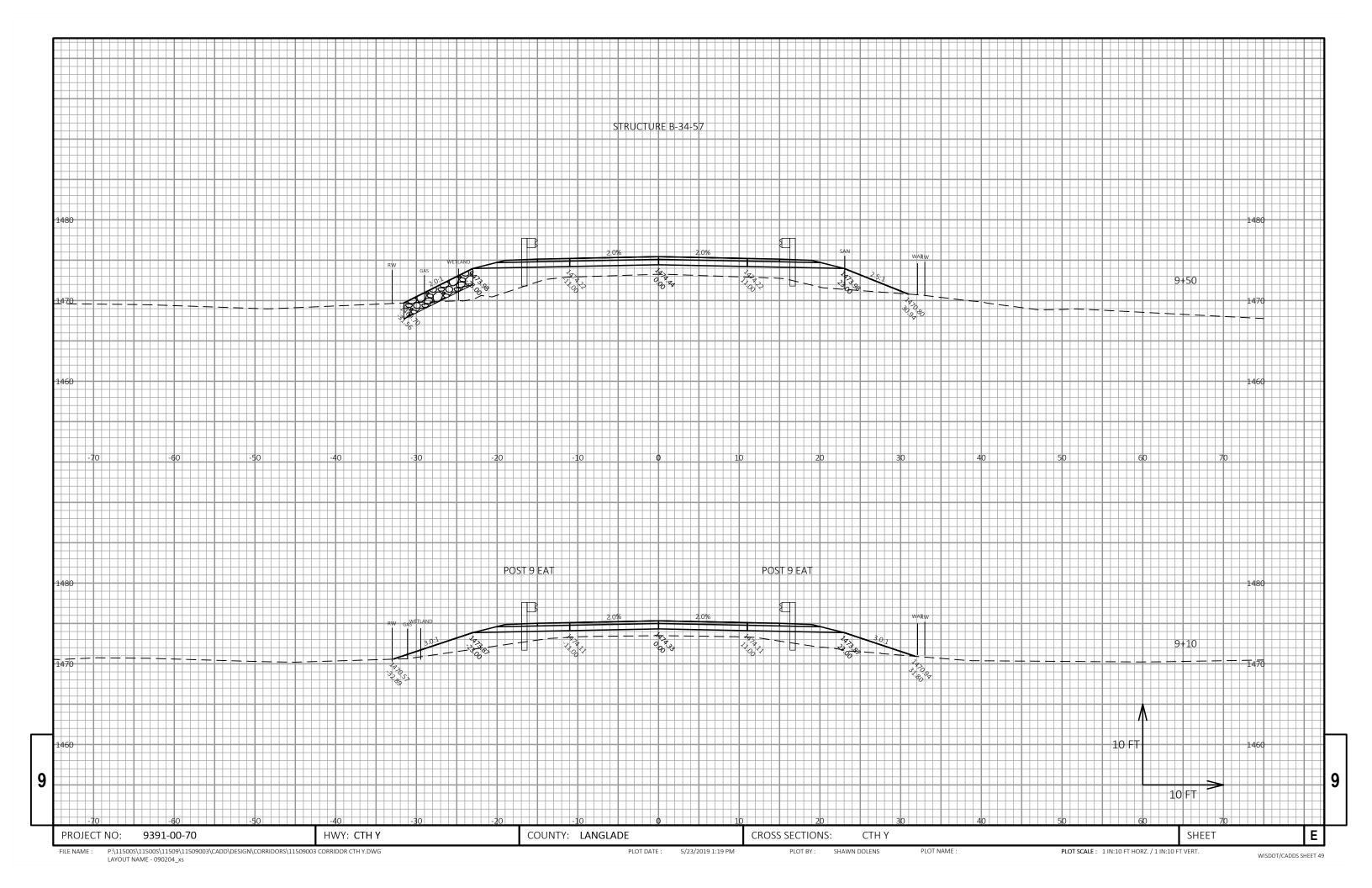
^{(2) -} FILL EXPANSION 30%

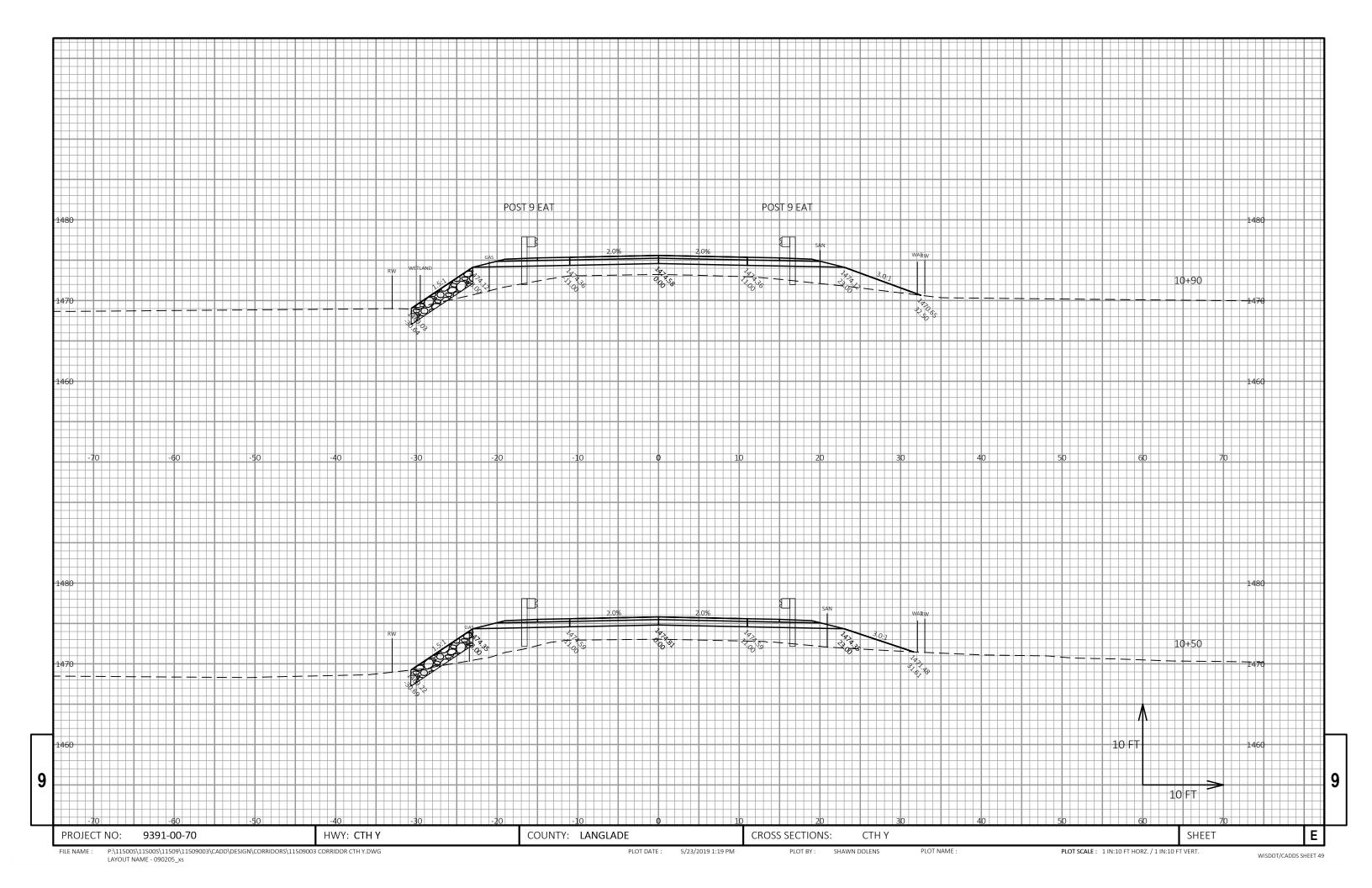
^{(3) -} EXISTING PAVEMENT BASED ON AVE THK OF 14" OF ASPHALT PER BORING LOG.

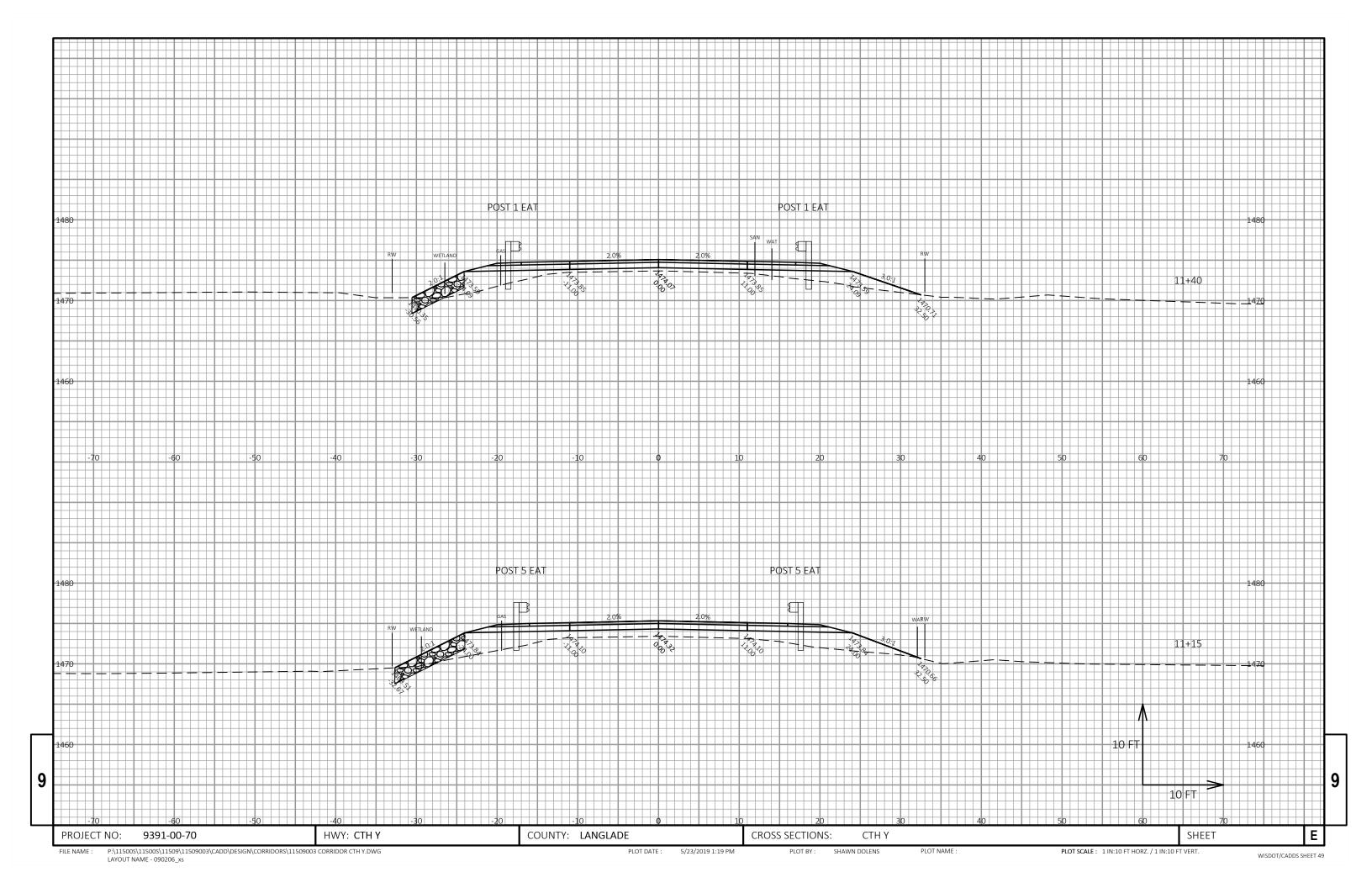


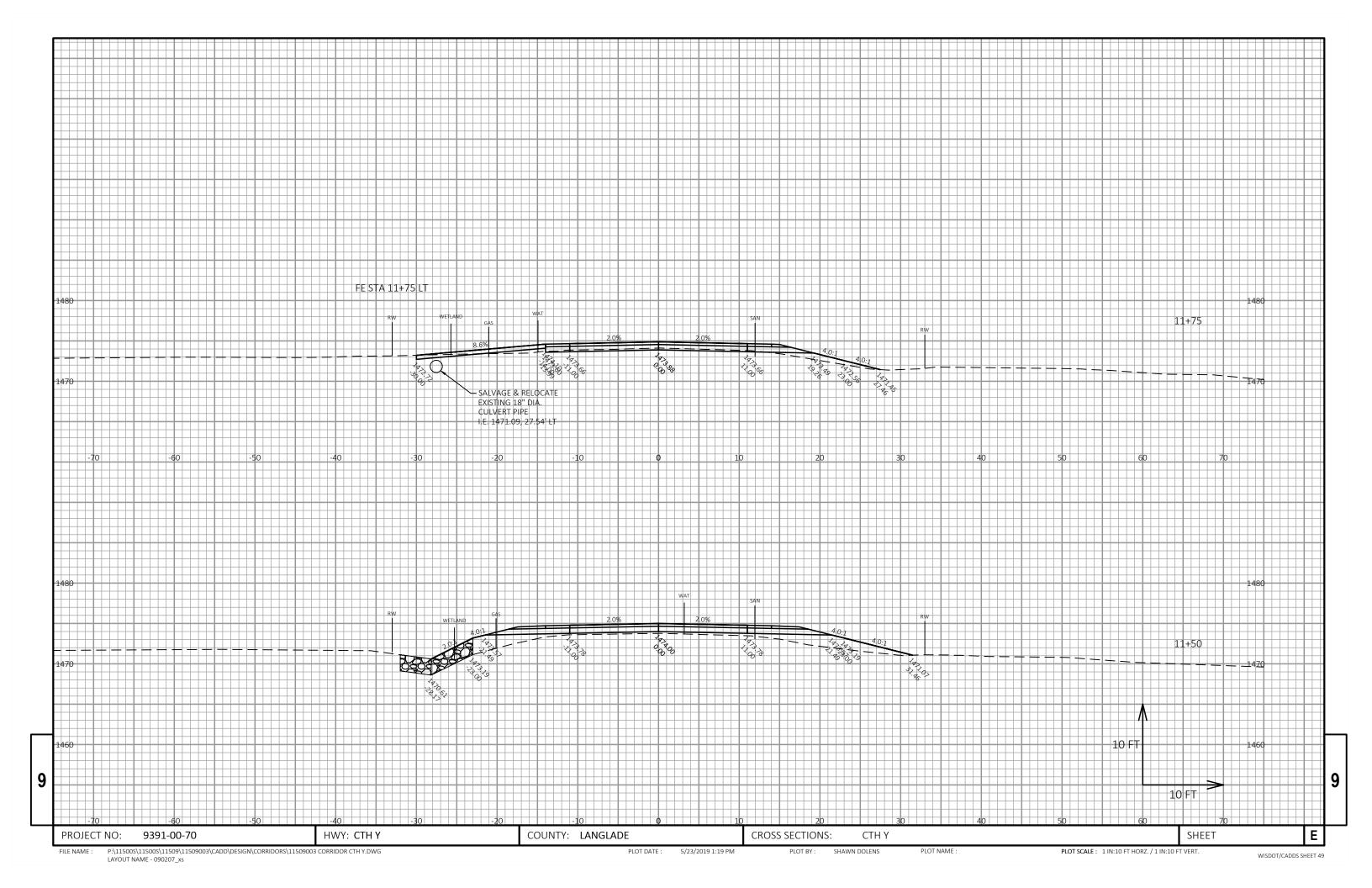


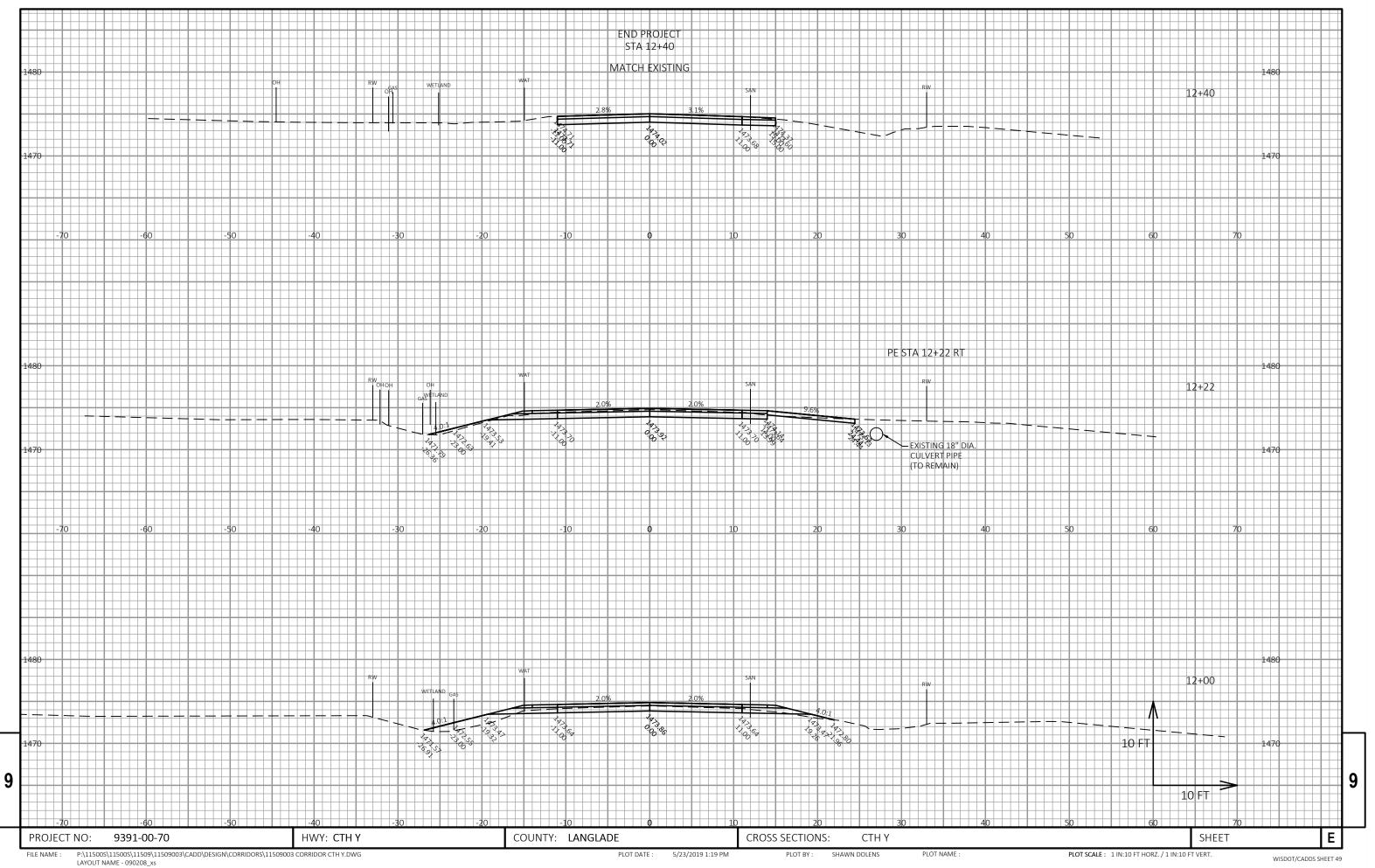














Wisconsin Department of Transportation

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