WOODED OR SHRUB AREA

Typical Sections and Details Estimate of Quantities Miscellaneous Quantities

Computer Earthwork Data

PROJECT LOCATION

Right of Way Plat

Plan and Profile Standard Detail Drawings

Cross Sections

STATE OF WISCONSIN
EPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT

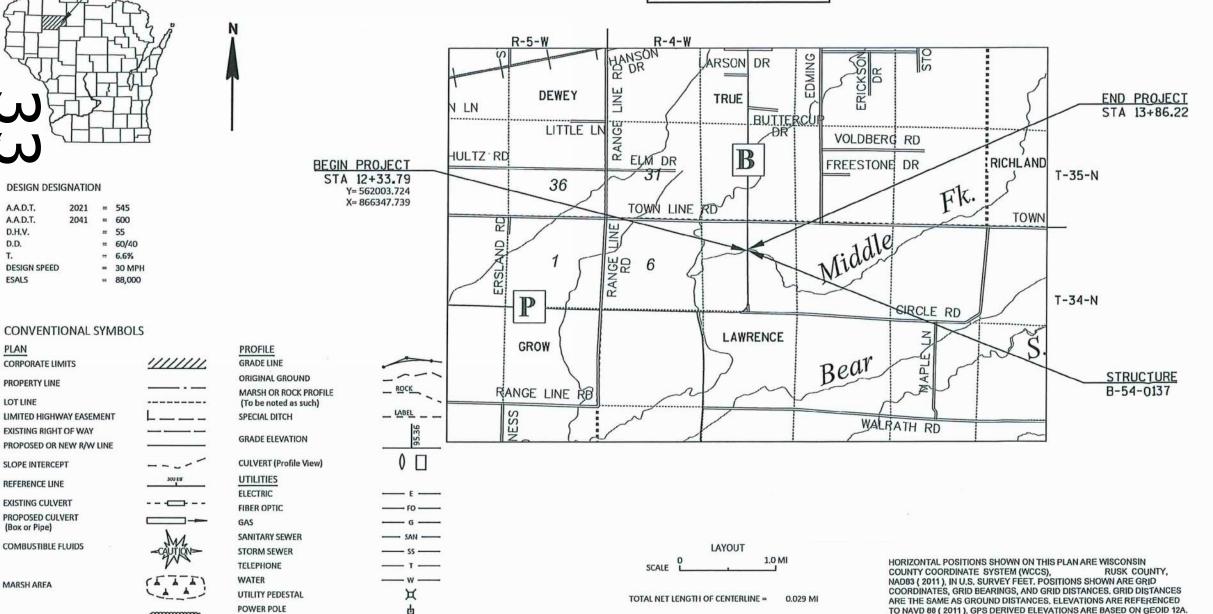
FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 8793-00-72 WISC 2021245

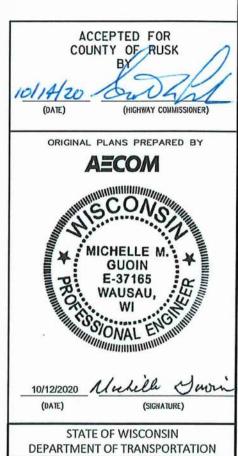
SCL - GLEN FLORA

MIDDLE FORK MAIN CREEK BR B-54-0137

CTH B **RUSK COUNTY**

STATE PROJECT NUMBER 8793-00-72





AECOM

AFCOM

Matthew Van Natta, PE

Andrew Stensland, PE

Surveyor

Designer

Project Manager

Regional Examiner

Regional Supervisor

PPROVED FOR THE DEPARTMENT

10/12/2020 5:04 PM

LIST OF STANDARD ABBREVIATIONS

ABUTMENT ABUT LT. LEFT-HAND FORWARD AGG. AGGREGATE L.H.F. APPROX. **APPROXIMATE** LIN. LINEAR APRON ENDWALL LINEAR FOOT A.E.W LIN. FT. ASPHALTIC LUMP SUM ASPH. L.S. AVERAGE DAILY TRAFFIC MAX MAXIMUM A.D.T. AZ. AZIMUTH MI. MILE BK. BACK MISC MISCELLANEOUS NORTH EAST BEG. BEGIN N.E. B.M. BENCH MARK N.W. NORTH WEST PAV'T PAVEMENT C/L CENTER LINE POINT OF CURVATURE CONC. CONCRETE P.C. CONST. CONSTRUCTION P.I. POINT OF INTERSECTION POINT OF TANGENCY COUNTY CO. P.O.T. POINT OF TANGENT COUNTY TRUNK HIGHWAY CTHPOUND X-SEC. CROSS SECTION ΙB PRIVATE ENTRANCE CR. CRUSHED P.F. PROJ. PROJECT CFS. CUBIC FEET/SECOND RANGE C.Y., CU. YD. CUBIC YARD REQ'D REQUIRED CULV. CULVERT C.P. **CULVERT PIPE** RT. RIGHT RIGHT-HAND FORWARD D.O.T. DEPARTMENT OF TRANSPORTATION R.H.F. DESIGN HOUR VOLUME R/W RIGHT OF WAY D.H.V. DIAMETER RD ROAD DIA. SHRINKAGE DIRECTIONAL DISTRIBUTION SHR DISCH. OR DIS. DISCHARGE SL. SLOPE STD. STANDARD EACH S.D.D. STANDARD DETAIL DRAWING ELECT. ELECTRIC STATE TRUNK HIGHWAY ELEVATION S.T.H. EL. OR ELEV. STATION **EMBANKMENT** STA EMB. S.P.P.A. STRUCTURAL PLATE PIPE ARCH E.B.S. **EXCAVATION BELOW SUBGRADE** EXIST. **EXISTING** STRUCT STRUCTURE FERT. FERTILIZE SURF. SURFACE TEL. TELEPHONE FF FIELD ENTRANCE FIN. FINISHED TN. TOWN FT. FOOT TRUCKS (PERCENT OF) F.L. FLOW LINE UNCL. UNCLASSIFIED UNDERGROUND GA. GAUGE U.G. HORI7 HORIZONTAI VELOCITY V CWT HUNDREDWEIGHT V.C. VERTICAL CURVE INL. INLET

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
		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	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP-	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
TURF	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE-			.25			.27			.28			.30
TURF			.32			.34			.36			.38
PAVEMENT:			•			•	•		•	•		•
ASPHALT						.7095						
CONCRETE						.8095						
BRICK	BRICK .7080											
DRIVES, WALKS						.7585						
R00FS	S .7595											
GRAVEL ROADS,	SHOULDE	ERS				.4060						

TOTAL PROJECT AREA = 1.002 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.771 ACRES

GENERAL NOTES

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE

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

SECTIONS AS SHOWN ON THE CROSS SECTION SHEETS INCLUDE THE THICKNESS OF TOPSOIL.

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREA WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND EMATTED AS DIRECTED BY THE

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. FIELD ADJUST SILT FENCE TO FIT EXISTING CONDITIONS.

WETLANDS ARE PRESENT WITHIN THE PROJECT LIMITS. DO NOT OPERATE EQUIPMENT OUTSIDE THE SLOPE INTERCEPTS.

THE WISCONSIN DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR AN ALUMINUM MONUMENT TO SET IN THE STRUCTURE AS DESIGNATED BY THE

UTILITY CONTACTS

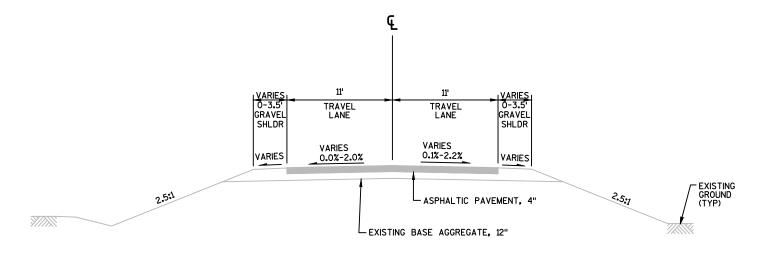
JUMP RIVER ELECTRIC COOPERATIVE (ELECTRIC)
ATTN: SAM HOWARD 1102 WEST 9TH STREET PO BOX 99 LADYSMITH, WI 54548 PHONE: 715-532-5524 showard@jrec.com

CENTURYLINK (COMMUNICATION) ATTN: BRIAN HUHN 425 ELLINGTON AVENUE PO BOX 78 HAWKINS, WI 54530 PHONE: 715-532-0023 Brian.huhn@centurylink.com DNR CONTACT

DEPARTMENT OF NATURAL RESOURCES ATTN: LEAH NICOL 1300 WEST CLAIRMONT AVENUE EAU CLAIRE, WI 54701 715-934-9014 leah.nicol@wisconsin.gov

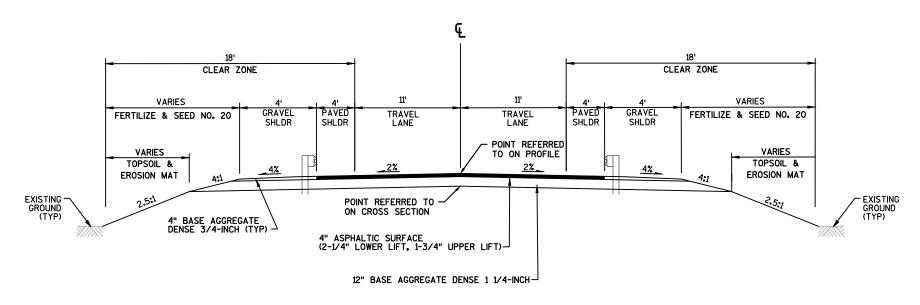






TYPICAL EXISTING SECTION - CTH B OVER MIDDLE FORK MAIN CREEK

STA. 10+54.94 - 12+74.79 STA. 13+45.33 - 15+65.17



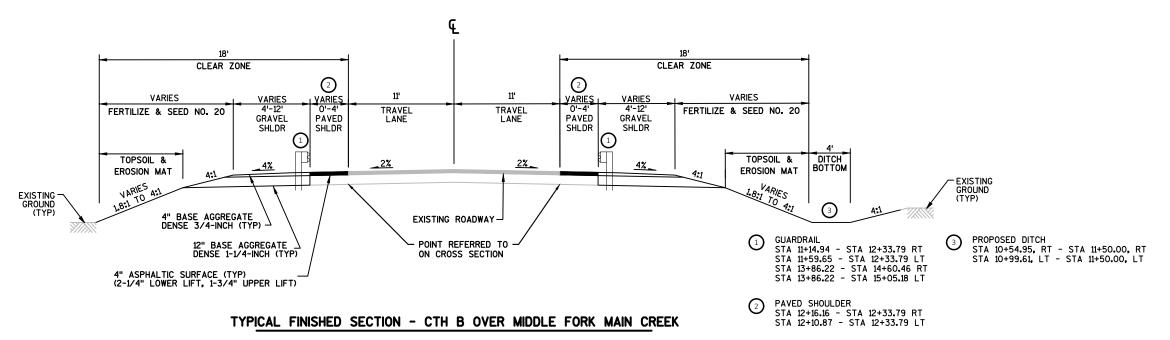
TYPICAL FINISHED SECTION - CTH B OVER MIDDLE FORK MAIN CREEK

STA. 12+33.79 - 12+74.79 STA. 13+45.33 - 13+86.22

SHEET PROJECT NO:8793-00-72 CTH B COUNTY: RUSK TYPICAL SECTIONS PLOT NAME : _____

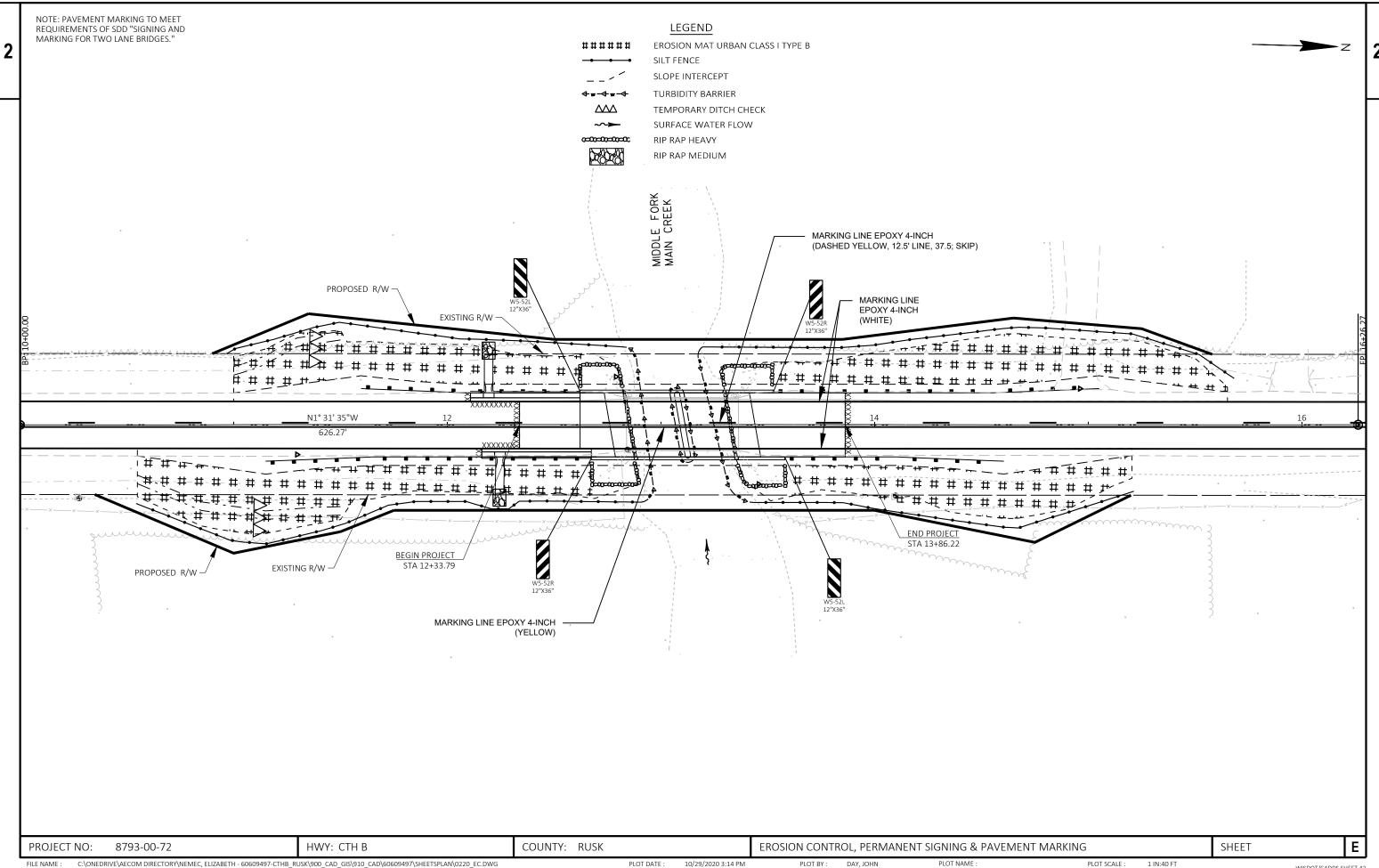
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2



STA. 10+54.94 - 12+33.79 STA. 13+86.22 - 15+65.17

PROJECT NO:8793-00-72 CTH B COUNTY:RUSK TYPICAL SECTIONS SHEET ____ E



LAYOUT NAME - 022001_ec

WISDOT/CADDS SHEET 42

					8793-00-72
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	4.000	4.000
0004	201.0205	Grubbing	STA	4.000	4.000
0006	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 13+10	LS	1.000	1.000
8000	204.0170	Removing Fence	LF	155.000	155.000
0010	205.0100	Excavation Common	CY	341.000	341.000
0012	206.1000	Excavation for Structures Bridges (structure) 01. B-54-137	LS	1.000	1.000
0014	208.0100	Borrow	CY	882.000	882.000
0016	210.1500	Backfill Structure Type A	TON	240.000	240.000
0018	213.0100	Finishing Roadway (project) 01. 8793-00-72	EACH	1.000	1.000
0020	305.0110	Base Aggregate Dense 3/4-Inch	TON	150.000	150.000
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	238.000	238.000
0024	416.1010	Concrete Surface Drains	CY	4.000	4.000
0026	455.0605	Tack Coat	GAL	23.000	23.000
0028	465.0105	Asphaltic Surface	TON	69.000	69.000
0030	502.0100	Concrete Masonry Bridges	CY	252.000	252.000
0032	502.3200	Protective Surface Treatment	SY	240.000	240.000
0034	502.3210	Pigmented Surface Sealer	SY	90.000	90.000
0036	505.0400	Bar Steel Reinforcement HS Structures	LB	5,510.000	5,510.000
0038	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	37,820.000	37,820.000
0040	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000
0040	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	535.000	535.000
0042	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type	LF	102.000	102.000
		TBT			
0046	606.0200	Riprap Medium	CY	6.000	6.000
0048	606.0300	Riprap Heavy	CY	150.000	150.000
0050	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	160.000	160.000
0052	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000
0054	614.2300	MGS Guardrail 3	LF	150.000	150.000
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. 8793-00-72	EACH	1.000	1.000
0062	619.1000	Mobilization	EACH	1.000	1.000
0064	624.0100	Water	MGAL	4.000	4.000
0066	625.0100	Topsoil	SY	1,477.000	1,477.000
0068	628.1504	Silt Fence	LF	869.000	869.000
0070	628.1520	Silt Fence Maintenance	LF	869.000	869.000
0072	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0074	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0014	020.1310	MODILIZATIONS EMERGENCY ENGINEE CONTINU	LACIT	2.000	2.000

					8793-00-72
Line	Item	Item Description	Unit	Total	Qty
0076	628.2008	Erosion Mat Urban Class I Type B	SY	1,477.000	1,477.000
0078	628.6005	Turbidity Barriers	SY	280.000	280.000
0800	628.7504	Temporary Ditch Checks	LF	8.000	8.000
0082	629.0210	Fertilizer Type B	CWT	0.930	0.930
0084	630.0120	Seeding Mixture No. 20	LB	27.000	27.000
0086	630.0500	Seed Water	MGAL	33.000	33.000
8800	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0090	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0092	638.2602	Removing Signs Type II	EACH	4.000	4.000
0094	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0096	642.5001	Field Office Type B	EACH	1.000	1.000
0098	643.0420	Traffic Control Barricades Type III	DAY	1,620.000	1,620.000
0100	643.0705	Traffic Control Warning Lights Type A	DAY	1,440.000	1,440.000
0102	643.0900	Traffic Control Signs	DAY	1,620.000	1,620.000
0104	643.5000	Traffic Control	EACH	1.000	1.000
0106	645.0111	Geotextile Type DF Schedule A	SY	100.000	100.000
0108	645.0120	Geotextile Type HR	SY	360.000	360.000
0110	646.1020	Marking Line Epoxy 4-Inch	LF	2,262.000	2,262.000
0112	650.4500	Construction Staking Subgrade	LF	460.000	460.000
0114	650.5000	Construction Staking Base	LF	100.000	100.000
0116	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	102.000	102.000
0118	650.6500	Construction Staking Structure Layout (structure) 01. B-54-137	LS	1.000	1.000
0120	650.9910	Construction Staking Supplemental Control (project) 01. 8793-00-72	LS	1.000	1.000
0122	650.9920	Construction Staking Slope Stakes	LF	460.000	460.000
0124	690.0150	Sawing Asphalt	LF	86.000	86.000
0126	715.0502	Incentive Strength Concrete Structures	DOL	1,512.000	1,512.000
0128	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0130	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

REMOVING FENCE

FINISHING ROADWAY

STATION	-	STATION	201.0105 CLEARING	201.0205 GRUBBING
10+54	-	12+84	2	2
13+36	-	15+66	2	2
ROJECT 879	3-00-	72 TOTAL	4	4

			204.0170 REMOVING FENCE
STATION	-	STATION	LF
10+72	-	11+51	80
	12+82		15
14+33	-	14+92	60
PROJECT 8	3793-00	0-72 TOTAL	155

213.0100 **FINISHING** ROADWAY **PROJECT** EACH 8793-00-72 PROJECT 8793-00-72 TOTAL

BASE AGGREGATE DENSE

		305.0110 3/4-INCH	305.0120 1 1/4-INCH	624.0100 WATER
STATION - STATION	LOCATION	TON	TON	MGAL
10+55 - 12+34	CTH B, SHOULDERS	64		0.7
12+34 - 12+79	CTH B, MAINLINE		119	1.2
12+34 - 12+79	CTH B, SHOULDERS	9		0.1
13+41 - 13+86	CTH B, MAINLINE		119	1.2
13+41 - 13+86	CTH B, SHOULDERS	9		0.1
13+86 - 15+65	CTH B, SHOULDERS	69		0.7
PROJECT 8793-00-72 TOTAL		150	238	4

CONCRETE SURFACE DRAIN 416.1010 CONCRETE SURFACE DRAINS

STATION	- STATION	OFFEST	CY
12+17	12+22	LT	2
12+22	12+27	RT	2

PROJECT 8793-00-72 TOTAL

ASPHALTIC ITEMS

STATION		STATION	LOCATION	GAL	TON
12+11	-	12+34	CTH B, SHOULDER PATCHING	1	1
12+34	-	12+78	CTH B, MAINLINE UPPER LAYER		11
12+34	-	12+78	CTH B, MAINLINE LOWER LAYER	8	14
12+34	-	12+79	CTH B, SHOULDERS UPPER LAYER		4
12+34	-	12+79	CTH B, SHOULDERS LOWER LAYER	3	5
13+42	-	13+86	CTH B, MAINLINE UPPER LAYER		11
13+42	-	13+86	CTH B, MAINLINE LOWER LAYER	8	14
13+41	-	13+86	CTH B, SHOULDERS UPPER LAYER		4
13+41	-	13+86	CTH B, SHOULDERS LOWER LAYER	3	5
PROJECT 8	3793-	-00-72 TOTAL		23	69

455.0605

TACK

COAT

CONCRETE CURB & GUTTER

601.0588 CONCRETE **CURB & GUTTER** 4-INCH SLOPED **36-INCH TYPE TBT**

OFFSET STATION - STATION LF 12+11 - 12+62 LT 51 12+16 - 12+67 RT 51

PROJECT 8793-00-72 TOTAL 102

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED.

PROJECT NO: 8793-00-72 HWY: CTH B COUNTY: RUSK MISCELLANEOUS QUANTITIES FILE NAME: \\P:\60548152\900_Work\910_CAD\60548152\SheetsPlan\0302-MQ.pptx PLOT DATE: 10/30/2020 10:18 AM PLOT BY: DOLAN, ISAAC PLOT SCALE: PLOT NAME:

465.0105

ASPHALTIC

SURFACE

SHEET

WISDOT / CADDS SHEET 41

E

DIVISION CTH B CTH B	FROM/TO STATION 10+55 to 12+75 13+10 to 15+65	LOCATION MAINLINE, SOUTH APPROACH MAINLINE, NORTH APPROACH	205.0100 COMMON EXCAVATION (1) CUT (2) 160 180	SALVAGED/UNUSABLE PAVEMENT MATERIAL (3) 67 73	AVAILABLE MATERIAL (4) 93 108	UNEXPANDED FILL 407 459	EXPANDED FILL (5) FACTOR 1.25 509 574	MASS ORDINATE +/- (6) -416 -466	WASTE 0 0	208.0100 BORROW 416 466
TOTAL		TAL COMMON FXC	341 341	140	201	867	1,083	-882	0	882

NOTES:

- (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (3) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (4) AVAILABLE MATERIAL = CUT SALVAGED/UNUSUABLE PAVEMENT MATERIAL
- (5) EXPANDED FILL FACTOR = 1.25

EXPANDED FILL = (UNEXPANDED FILL) * FILL FACTOR

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

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED.

PROJECT NO: 8793-00-72 HWY: CTH B COUNTY: RUSK MISCELLANEOUS QUANTITIES SHEET PLOT NAME:

3

GUARDRAIL

STATION	•	STATION	OFFSET	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
11+15	-	11+68	RT			1
11+68	-	12+31	RT	62.5		
12+31	-	12+70	RT		39.4	
11+60	-	12+13	LT			1
12+13	-	12+25	LT	12.5		
12+25	-	12+65	LT		39.4	
13+55	-	13+95	RT		39.4	
13+95	-	14+07	RT	12.5		
14+07	-	14+60	RT			1
13+50	-	13+90	LT		39.4	
13+90	-	14+52	LT	62.5		
14+52	-	15+05	LT			1
PROJECT	879	93-00-72 TOT	AL	150	157.6	4

RIPRAP

KIPKAP				606.0200 RIPRAP MEDIUM	645.0120 GEOTEXTILE TYPE HR
STATION	-	STATION	OFFSET	CY	SY
12+16	-	12+22	LT	3	10
12+22	-	12+27	RT	3	10
ROJECT 8	3793	3-00-72 TOTAL		6	20

MAINTENANCE AND REPAIR OF HAUL ROADS (CATEGORY 0030)

618.0100
MAINTENANCE
AND REPAIR OF
HAUL ROADS
EACH

PROJECT 8793-00-72 TOTAL

PROJECT

8793-00-72

MOBILIZATION

 PROJECT
 EACH

 8793-00-72
 1

EROSION CONTROL MOBILIZATION

628.1905 628.1910 **MOBILIZATIONS MOBILIZATION EROSION EMERGENCY** CONTROL **EROSION CONTROL EACH** EACH **PROJECT** 8793-00-72 3 2 PROJECT 8793-00-72 TOTAL 2 3

PLOT SCALE:

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED.

PROJECT NO: 8793-00-72 HWY: CTH B COUNTY: RUSK MISCELLANEOUS QUANTITIES SHEET

FILE NAME: \\P:\60548152\900_Work\910_CAD\60548152\SheetsPlan\0302-MQ.pptx PLOT DATE: 10/30/2020 10:18 AM PLOT BY: DOLAN, ISAAC PLOT NAME:

| E

WISDOT / CADDS SHEET 41

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_	Z
•	
•	_

LANDSCAF	PING		625.0100 TOPSOIL	628.2008 EROSION MAT URBAN CLASS I TYPE B	629.0210 FERTILIZER TYPE B	630.0120 SEEDING MIXTURE NO. 20	630.0500 SEED WATER
STATION	- STATION	OFFSET	SY	SY	CWT	LB	MGAL
10+55	12+68	RT	457	457	0.29	8.3	10.3
11+00	12+62	LT	319	319	0.20	5.8	7.2
13+52	15+65	LT	390	390	0.25	7.1	8.8
13+58	15+20	RT	311	311	0.20	5.6	7.0
PROJECT 87	93-00-72 TOTAL		1,477	1,477	0.93	27	33

EROSION CONTROL

				628.1504 SILT FENCE	628.1520 SILT Fence Maintenance	628.6005 TURBIDITY BARRIERS	628.7504 TEMPORARY DITCH CHECKS
STATION		STATION	OFFSET	LF	LF	SY	LF
10+54	-	12+91	RT	245	245		
10+97	-	12+82	LT	189	189		
1	1+1	1	RT				4
1	1+3	8	LT				4
12+82	-	12+97	LT/RT			92	
13+04	-	13+16	LT/RT			92	
13+17	-	13+45	LT/RT			96	
13+19	-	15+68	LT	255	255		
13+45	-	15+21	RT	180	180		
PROJECT	879	3-00-72 TOT	ΔΙ	869	869	280	8

PERMANENT SIGNING

		SIGN	634.0612 POSTS WOOD 4X6-INCH 12-FT	637.2230 SIGNS TYPE II REFLECTIVE F	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS
STATION	OFFSET	CODE	EACH	SF	EACH	EACH
12+62	LT	W5-52L	1	3		
12+67	RT	W5-52R	1	3		
12+85	LT	W5-52L			1	1
12+85	RT	W5-52R			1	1
13+35	LT	W5-52R			1	1
13+35	RT	W5-52L			1	1
13+53	LT	W5-52R	1	3		
13+58	RT	W5-52L	1	3		
PROJECT 8793-	00-72 TOTAL		4	12	4	4

FIELD OFFICE

	642.5001
	TYPE B
PROJECT	EACH
8793-00-72	1

PROJECT 8793-00-72 TOTAL

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED.

PROJECT NO: 8793-00-72

FILE NAME: \P:\60548152\900_Work\910_CAD\60548152\SheetsPlan\0302-MQ.pptx

PLOT DATE: 10/30/2020 10:18 AM PLOT BY: DOLAN, ISAAC PLOT NAME: PLOT SCALE:

SHEET

WISDOT / CADDS SHEET 41

	TRAFFIC CONT	ROL Days In	TRAFFIC BARRI	.0420 CONTROL CADES PE III	TRAFFIC	3.0705 CONTROL NG LIGHTS 'PE A	TRAFFIC	.0900 CONTROL GNS
ı	LOCATION	SERVICE	NO.	DAY	NO.	DAY	NO.	DAY
	8793-00-72	90	18	1,620	16	1,440	18	1,620
I	PROJECT 8793-00	-72 TOTAL		1,620		1,440		1,620

CONSTR	UCTION	STAKING

			650.4500	650.5000	650.5500	650.6500	650.9910	650.9920
			CONSTRUCTION	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION
			STAKING	STAKING	STAKING	STAKING	STAKING	STAKING
			SUBGRADE	BASE	CURB GUTTER	STRUCTURE LAYOUT	SUPPLEMENTAL	SLOPE
					AND CURB	B-54-0137	CONTROL	STAKES
					& GUTTER	(CATEGORY 0020)	8793-00-72	
STATION	-	STATION	LF	LF	LF	LS	LS	LF
10+54	-	12+34	180					180
12+11	-	12+62			51			
12+16	-	12+67			51			
12+34	-	12+84	50	50				50
13+36	-	13+86	50	50				50
13+86	-	15+66	180					180
87'	93-00	1-72				1	1	
PROJECT 879	93-00	-72 TOTAL	460	100	102	1	1	460

TRAFFIC CONTROL

643.5000 TRAFFIC CONTROL **PROJECT EACH** 8793-00-72

PROJECT 8793-00-72 TOTAL

PAVEMENT MARKING ITEMS

MARKING LINE **EPOXY** 4-INCH YELLOW WHITE LF 1,392

646.1020

STATION - STATION TYPE 9+62 - 16+58 EDGELINE (SOLID) 9+62 - 16+58 CENTERLINE (DASHED/SOLID) 870

PROJECT 8793-00-72 TOTAL

SAWING ASPHALT

690.0150 SAWING **ASPHALT** STATION - STATION LOCATION LF 12+11 - 12+34 CTH B 63 13+86 CTH B 23

PROJECT 8793-00-72 TOTAL

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED.

FILE NAME: \\P:\60548152\900_Work\910_CAD\60548152\SheetsPlan\0302-MQ.pptx

PROJECT NO: 8793-00-72

HWY: CTH B

COUNTY: RUSK

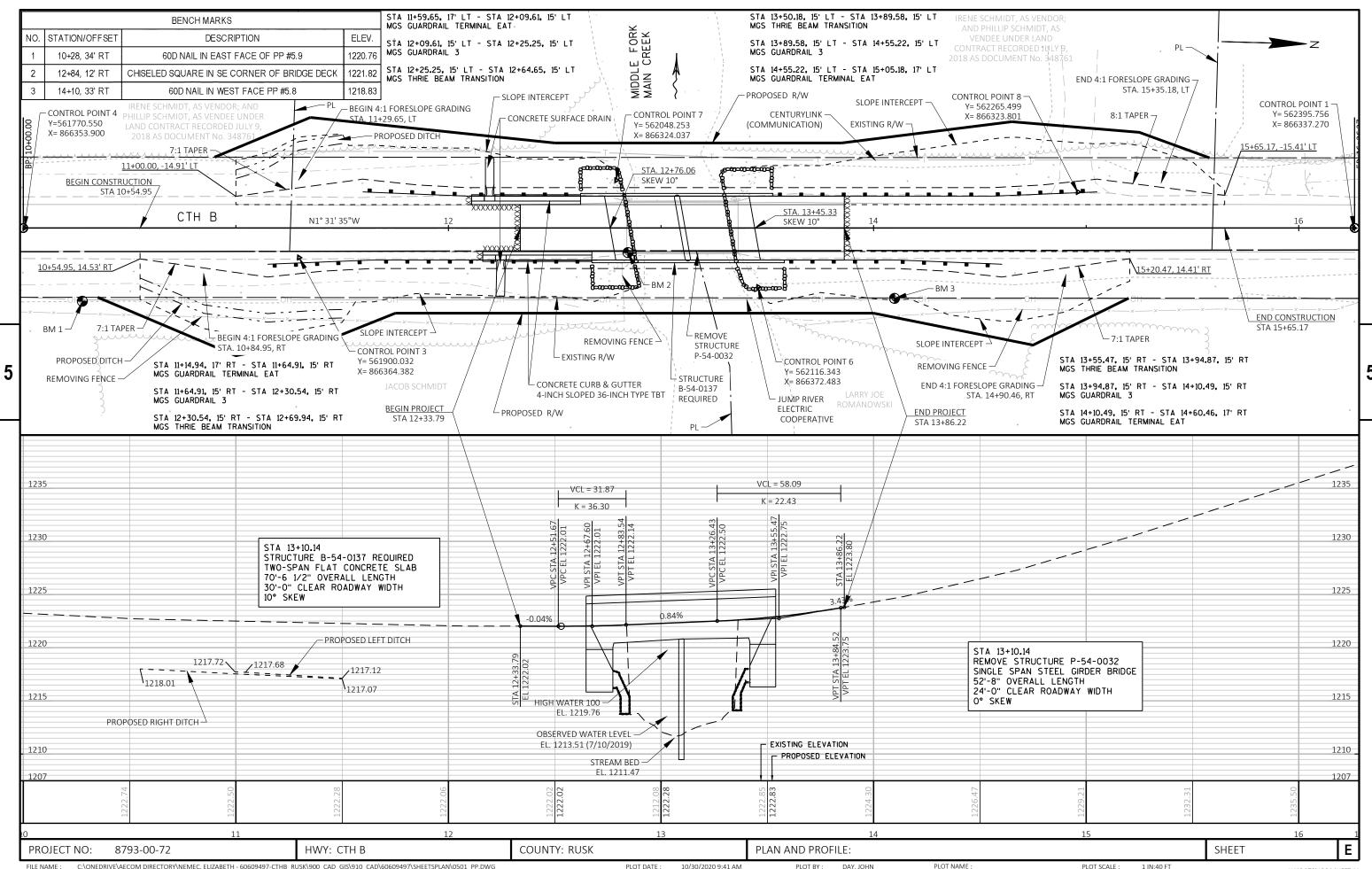
MISCELLANEOUS QUANTITIES

SHEET

WISDOT / CADDS SHEET 41

PLOT DATE: 10/30/2020 10:18 AM PLOT BY: DOLAN, ISAAC PLOT NAME: PLOT SCALE:

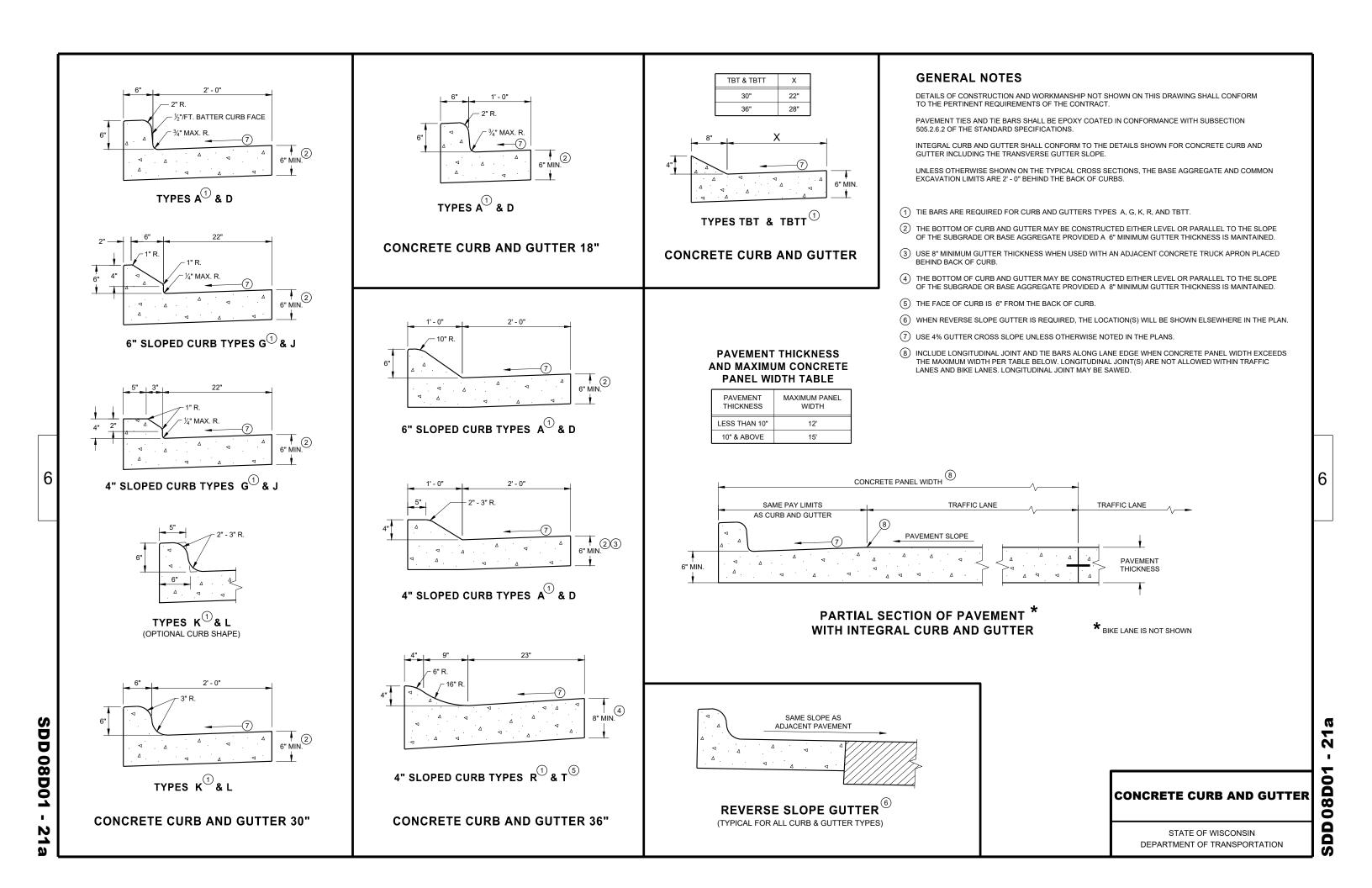
2,262

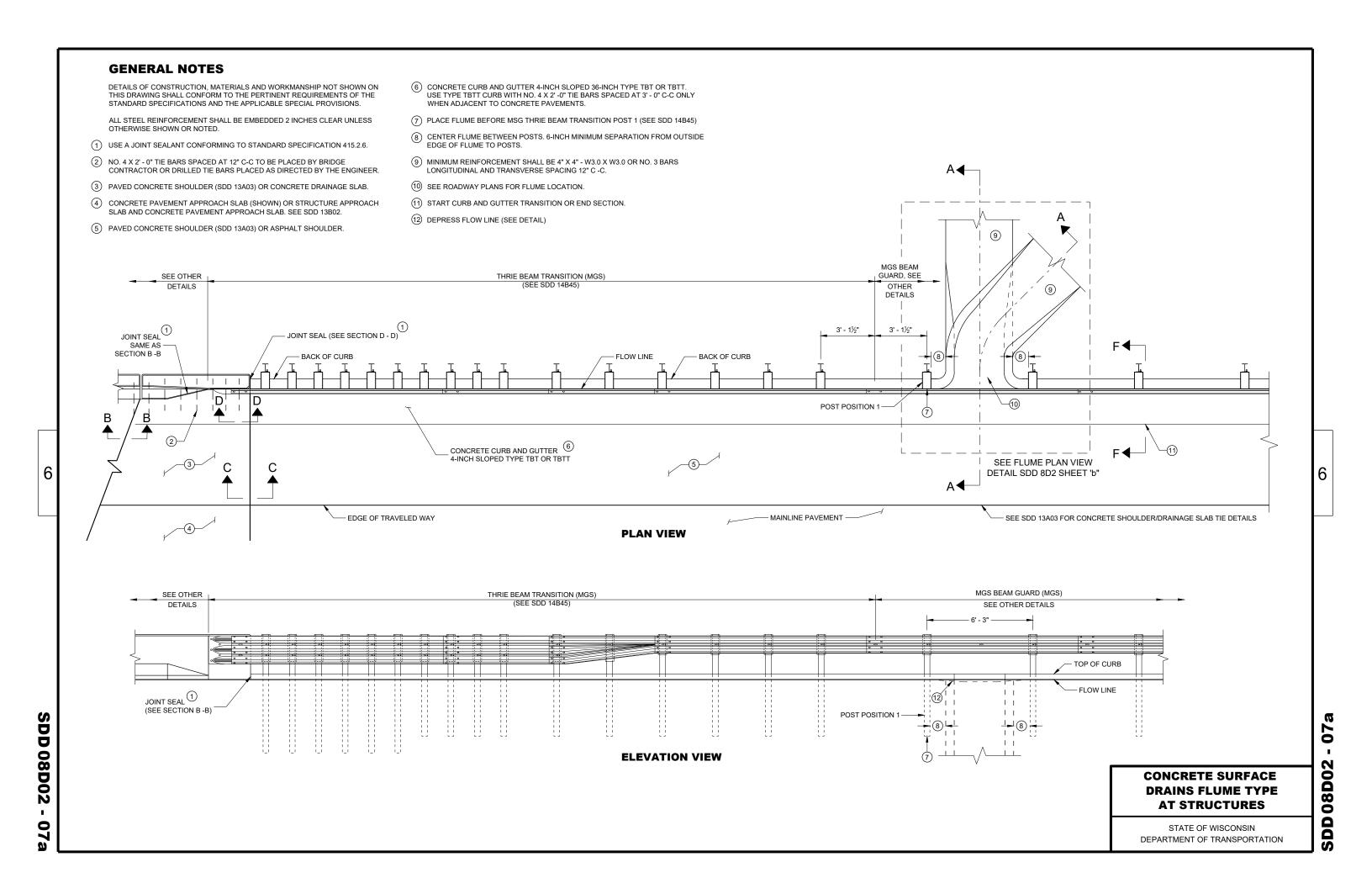


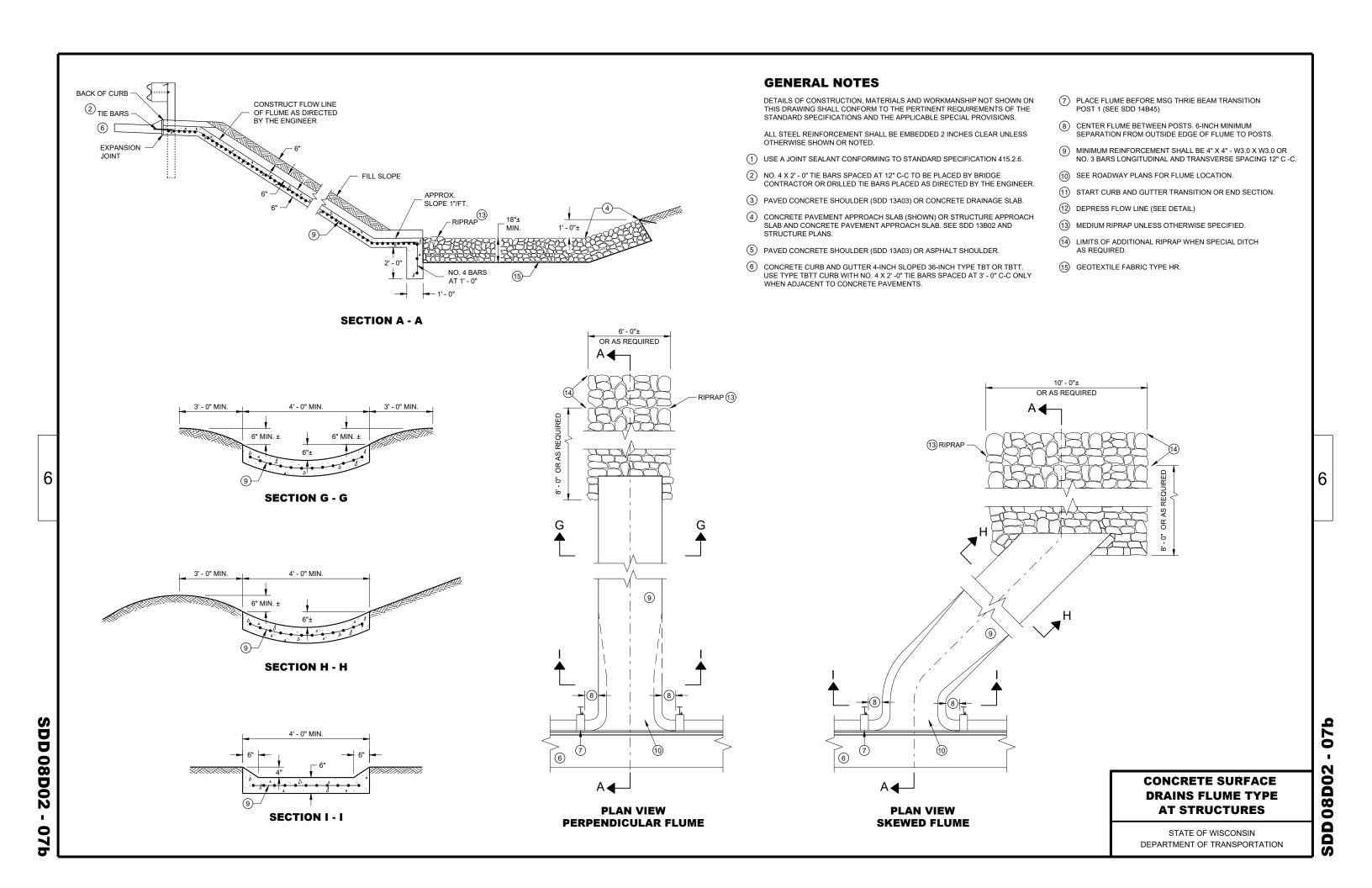
Standard Detail Drawing List

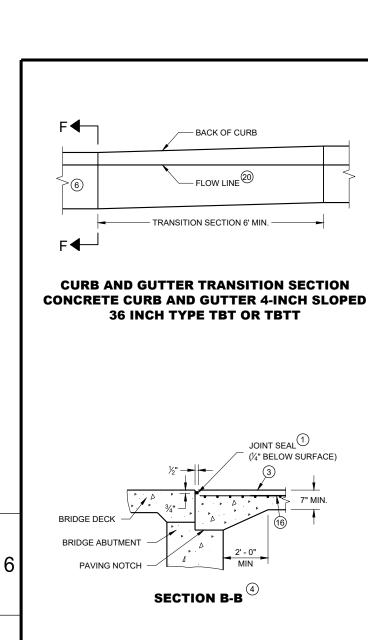
	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08E08-03	
08E09-06	
08E11-02	
12A03-10	
14B42-06A	
14B42-06B	
14B42-06C	
14B42-06D	
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING 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)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15D38-02A	· · · · · · · · · · · · · · · · · · ·
15D38-02B	

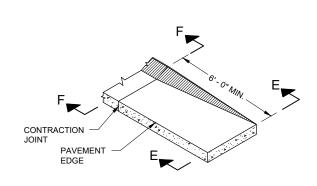
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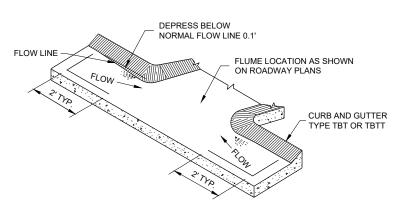




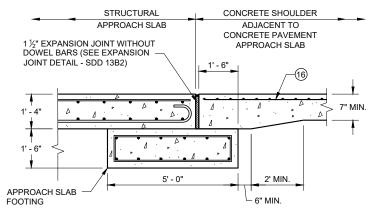




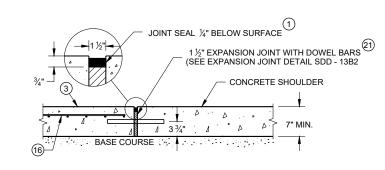
CURB AND GUTTER END SECTION CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



CURB AND GUTTER FLOW LINE DEPRESSION AT FLUMES CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



SECTION C - C JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



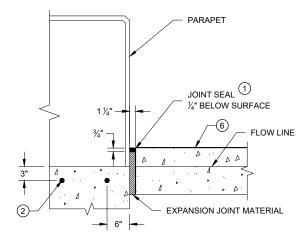
SECTION C - C JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS

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.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS

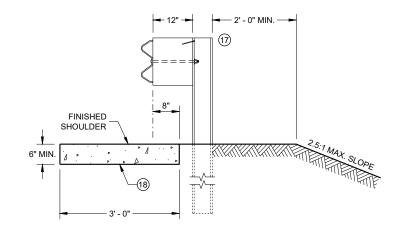
- (1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
- (2) NO. 4 X 2' 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
- (3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.
- (4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.
- (5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.
- (6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.
- 7 PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
- 8 CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.
- 9 MINIMUM REINFORCEMENT SHALL BE 4" X 4" W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.
- (10) SEE ROADWAY PLANS FOR FLUME LOCATION.
- (11) START CURB AND GUTTER TRANSITION OR END SECTION.
- (12) DEPRESS FLOW LINE (SEE DETAIL)
- (13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
- (14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.
- (15) GEOTEXTILE FABRIC TYPE HR.
- (16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.
- (7) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.
- (18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.
- (19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.
- 20 MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.
- (21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



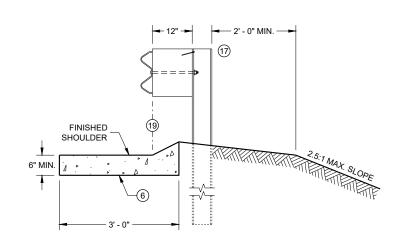
SECTION D - D

SDD 08D02

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SECTION E - E



SECTION F - F

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT

ENGINEER

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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.

TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- 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

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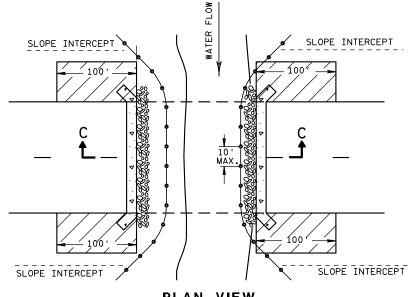
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GENERAL NOTES

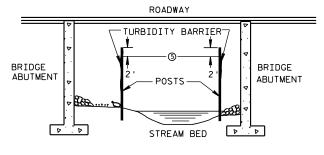
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.



PLAN VIEW



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)

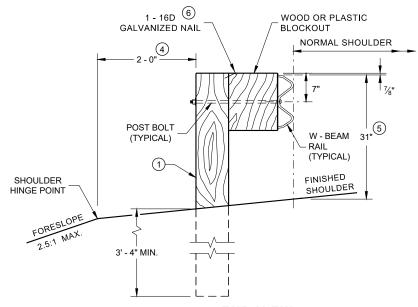
NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

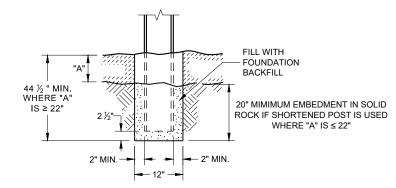
APPROVED

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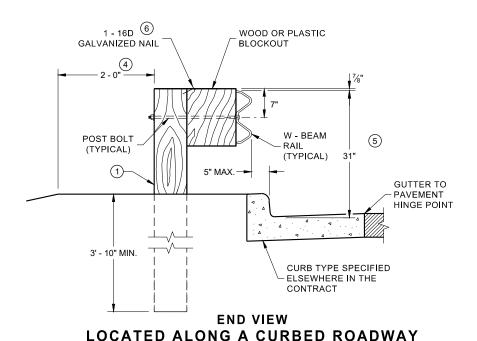
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- $\ \, \ \,$ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 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
- 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.

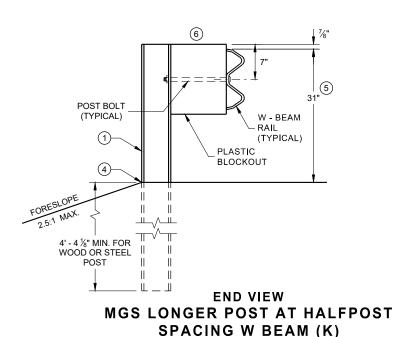


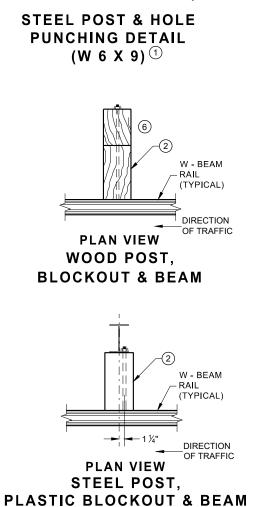
END VIEW LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION

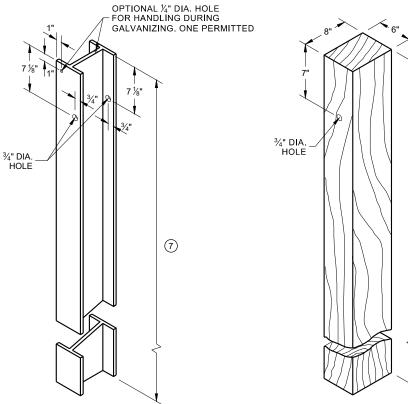


END VIEW SETTING STEEL OR WOOD POST IN ROCK

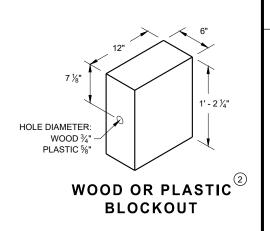








WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION SD

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

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

6' 3" C - C

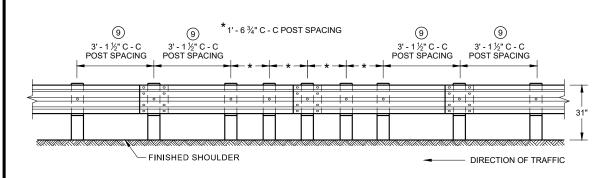
POST SPACING

DIRECTION OF TRAFFIC

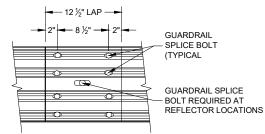
6' - 3" C -C

POST SPACING

FINISHED SHOULDER

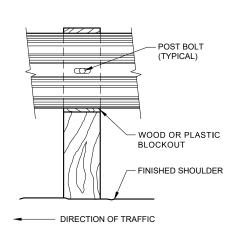


FRONT VIEW **QUARTER POST SPACING (QS)**



FRONT VIEW MID-SPAN BEAM SPLICE

FRONT VIEW AT STEEL POST



GENERAL NOTES

OF QUARTER POST SPACING.

RECESSED (DR) HEAVY HEX NUT.

OF THE ENERGY ABSORBING TERMINAL.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END

(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS

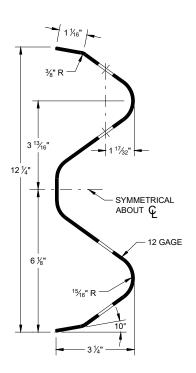
POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT

GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE

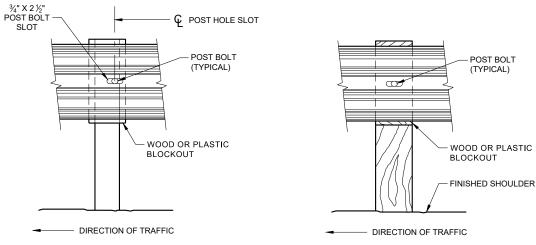
REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %"

DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



4" X 12" DELINEATOR REFLECTOR (REFER TO SDD 15A4 FOR DELINEATOR SPACING) WOOD OR PLASTIC BLOCKOUT MOUNT WITH TWO 3/16" X 2 1/2" TRIPLE COATED SCREWS WITH WASHERS WOOD OR STEEL POST - DIRECTION OF TRAFFIC

ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

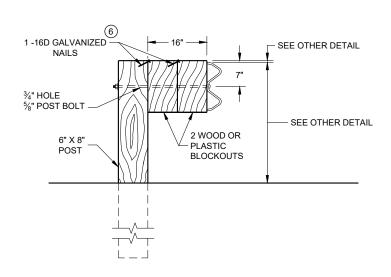
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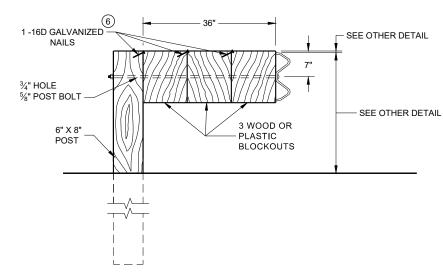
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DETAIL FOR 16" BLOCKOUT DEPTH

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.



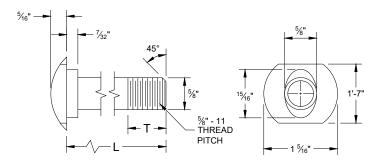
DETAIL FOR 36" BLOCKOUT DEPTH

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.

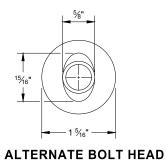
NOTE:

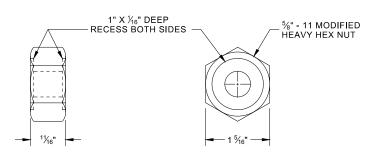
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

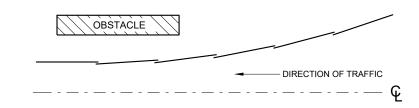
L	T (MIN.)
1 1⁄4"	1 1/4"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



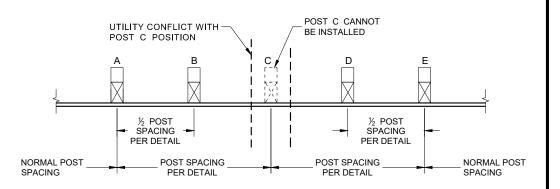


POST BOLT, SPLICE BOLT AND RECESS NUT

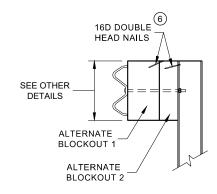
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

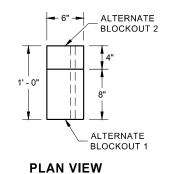


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

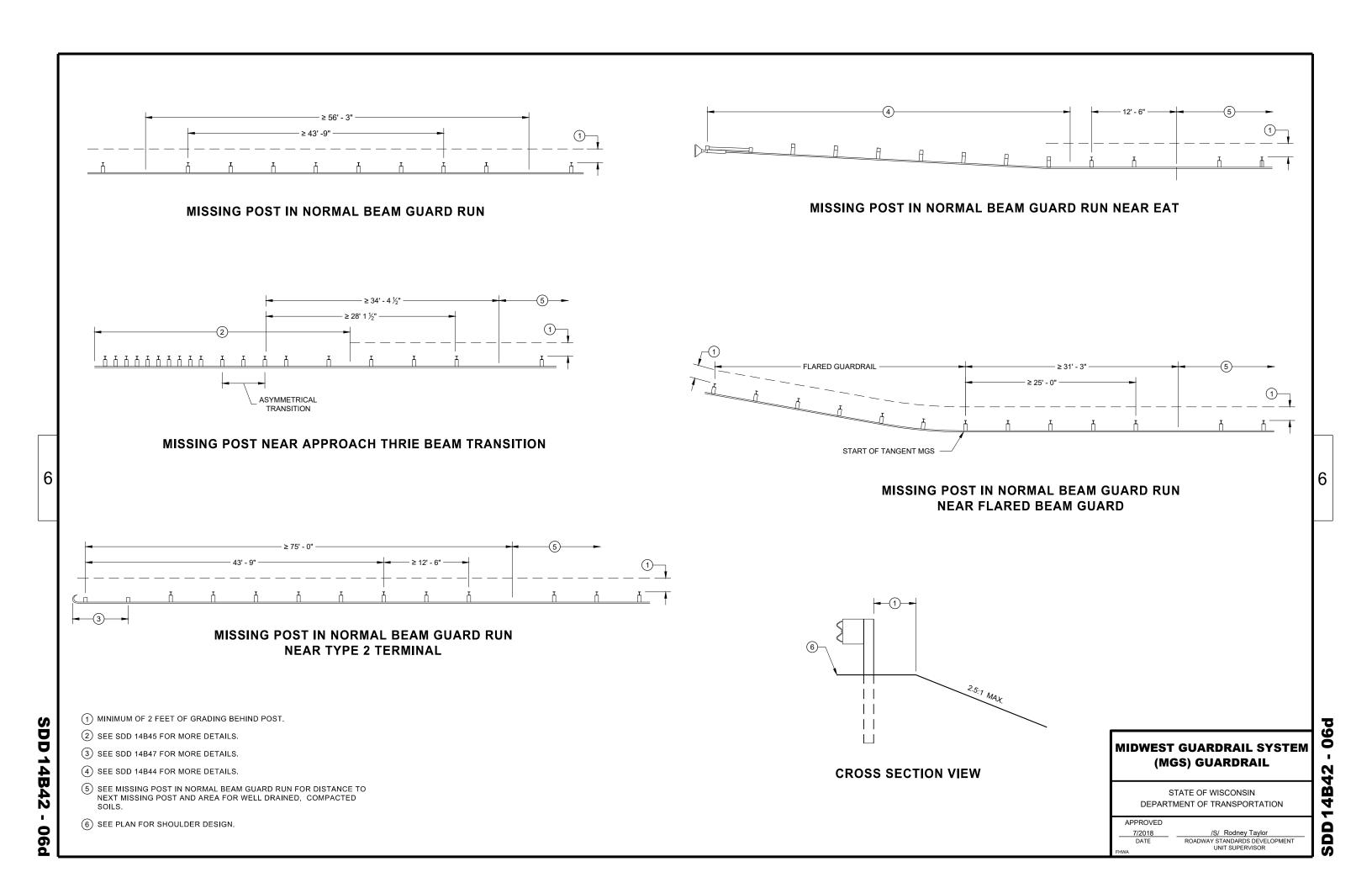
ALTERNATE WOOD BLOCKOUT DETAIL

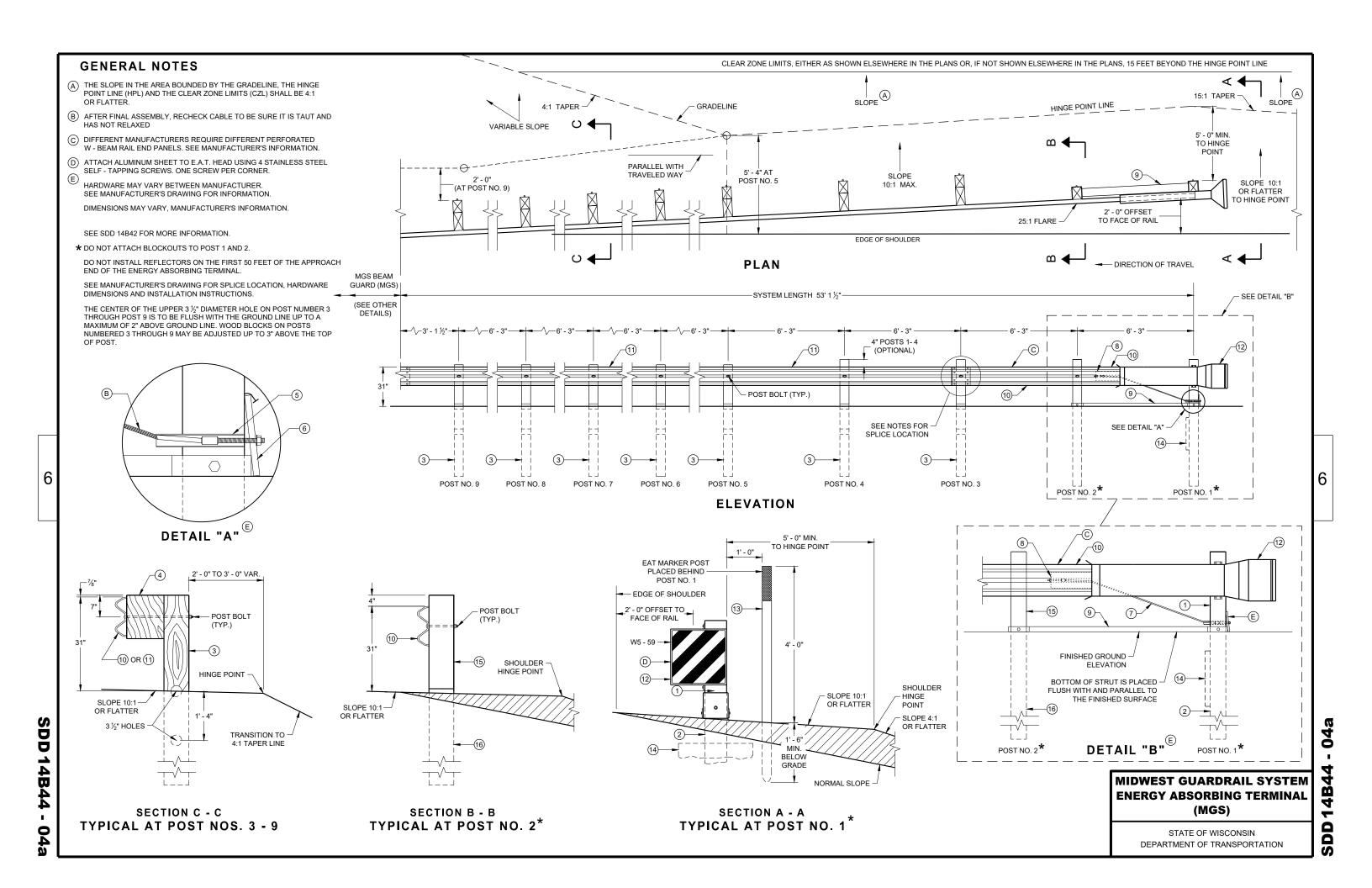
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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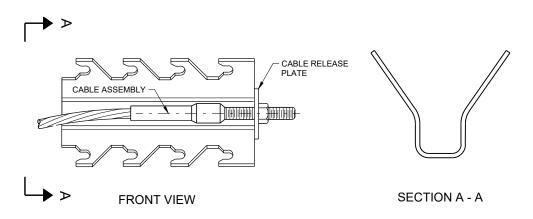
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

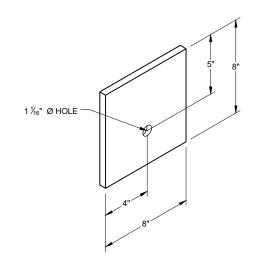




GENERIC GROUND STRUT



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



BEARING PLATE

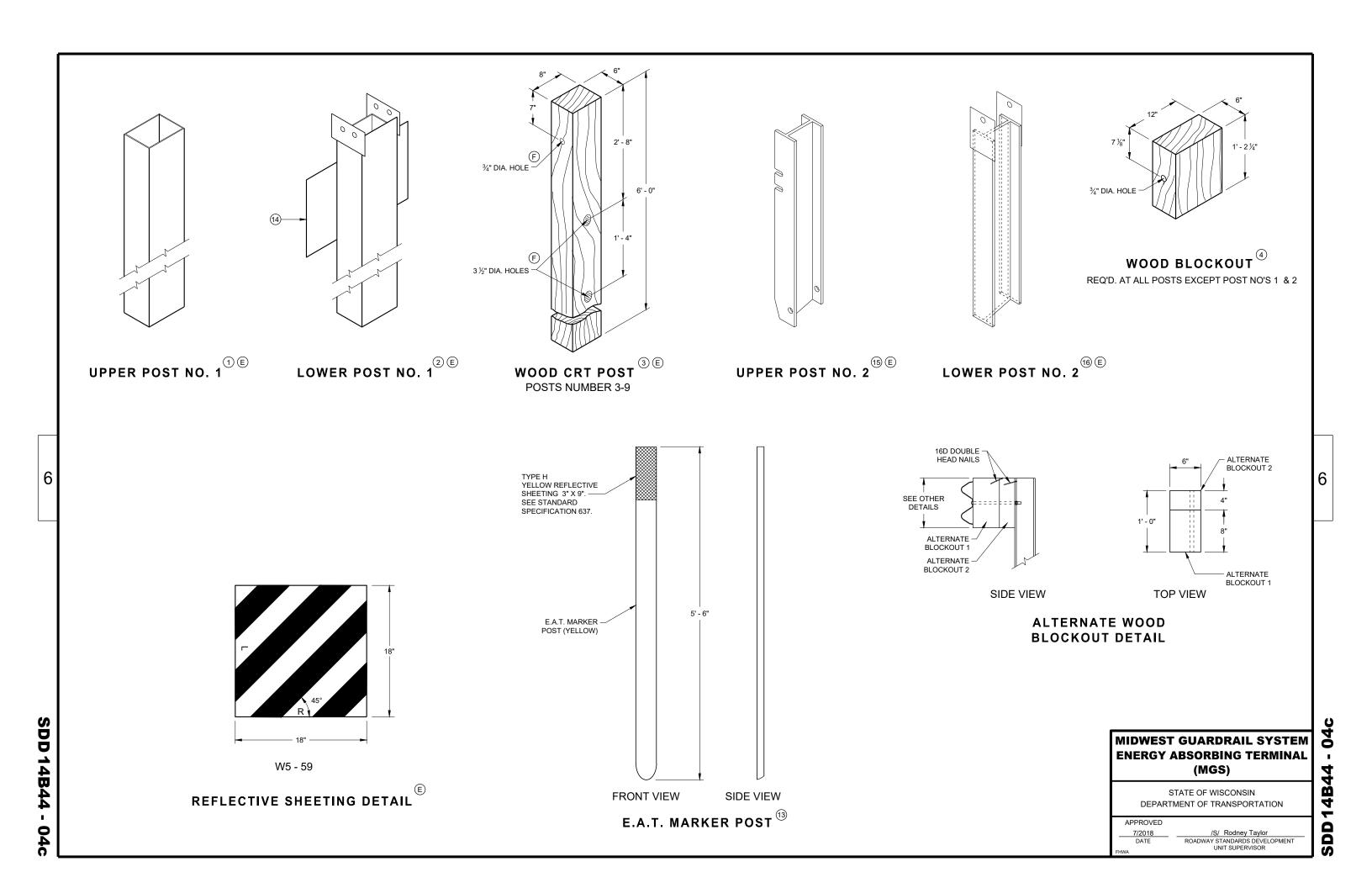
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

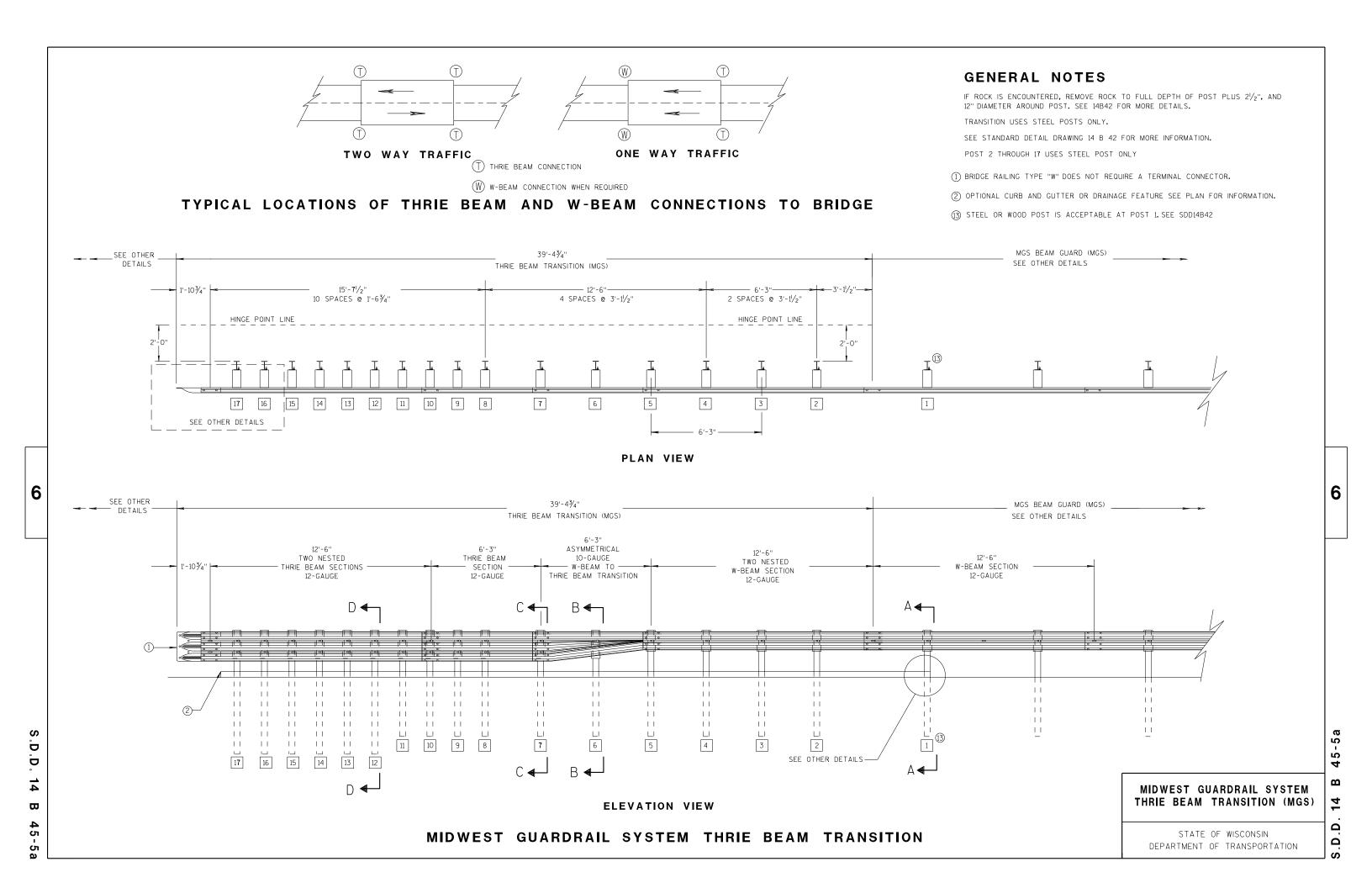
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

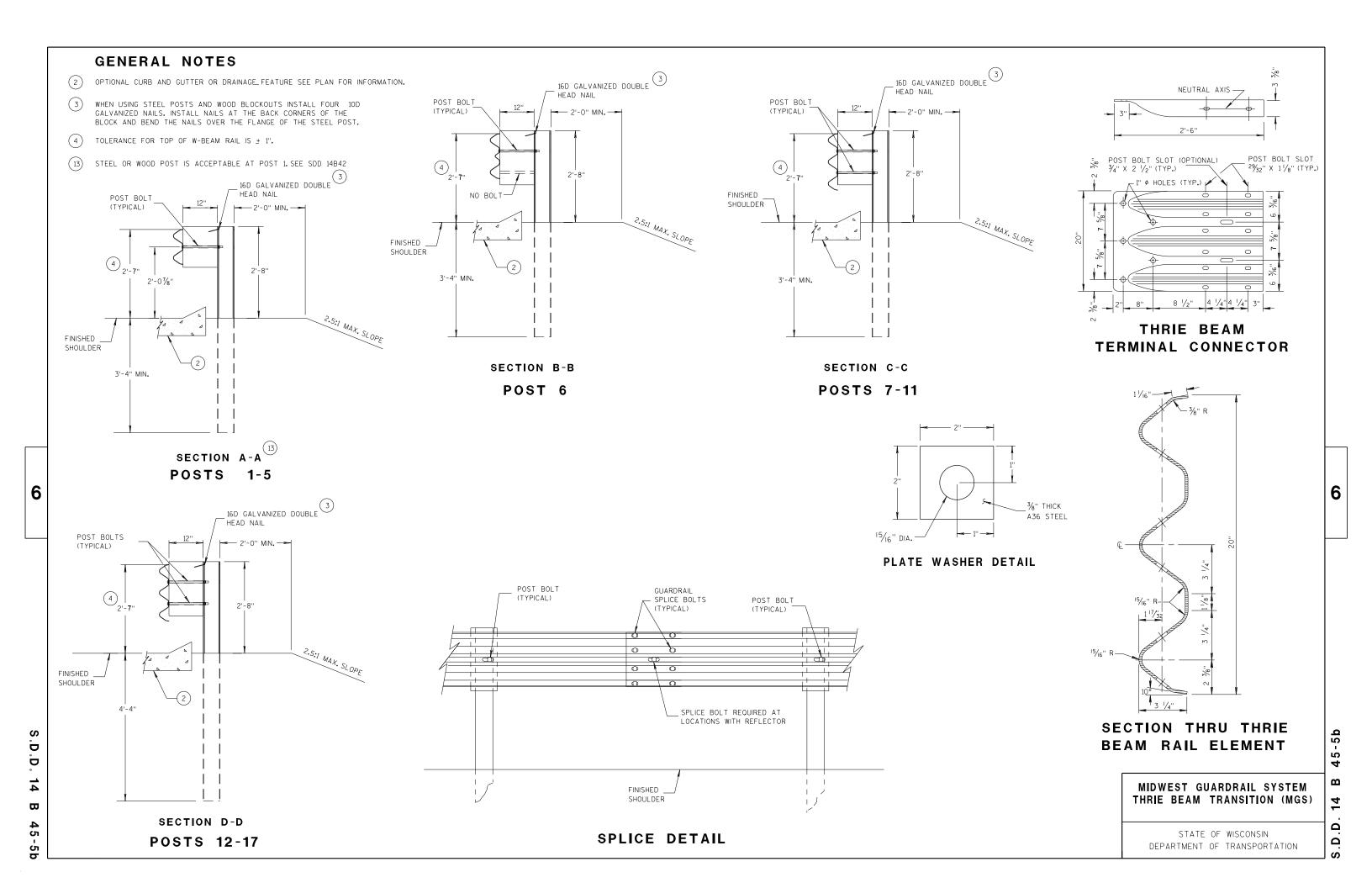
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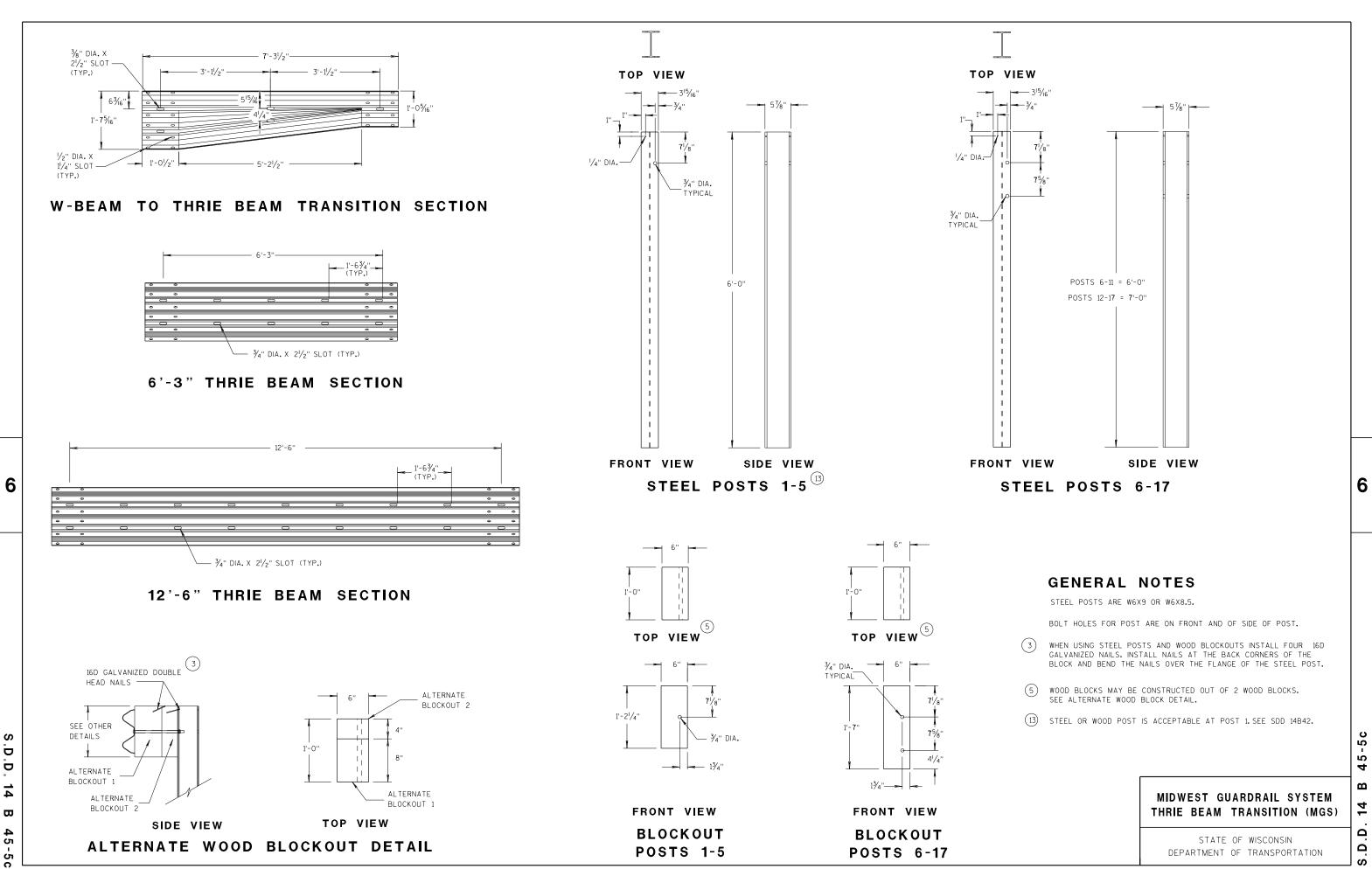
SDD 14B44

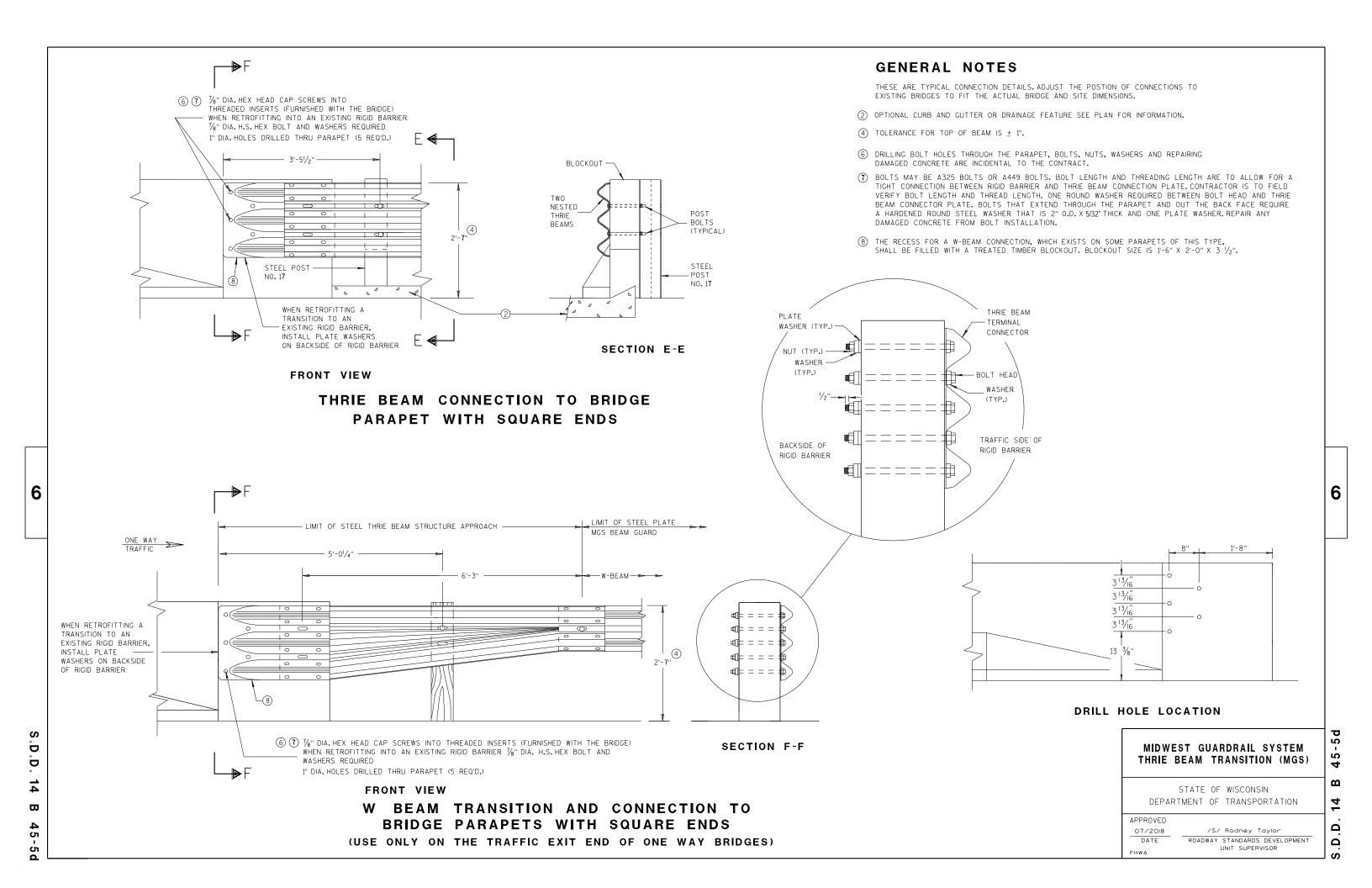
SDD 14B44 - 04

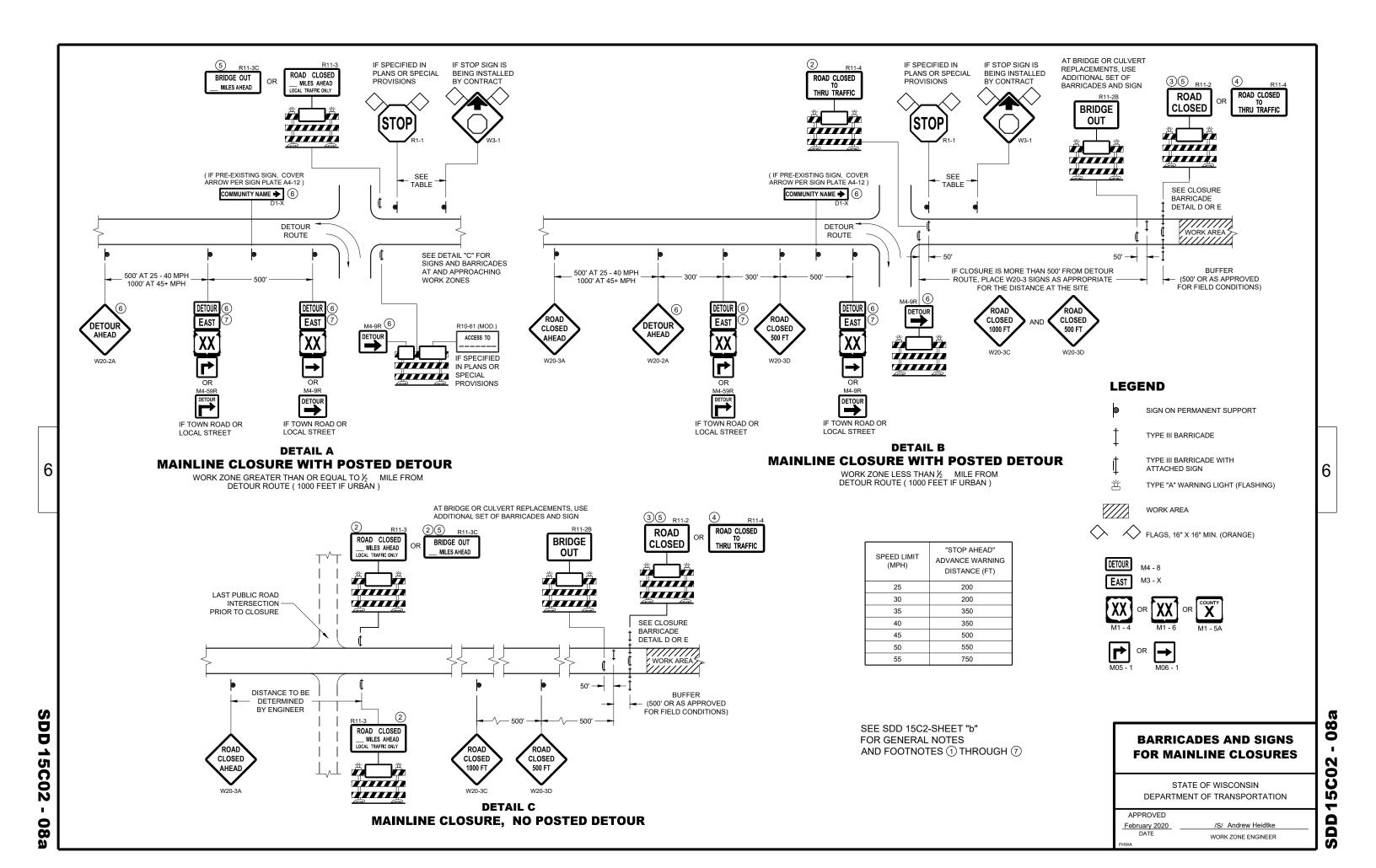


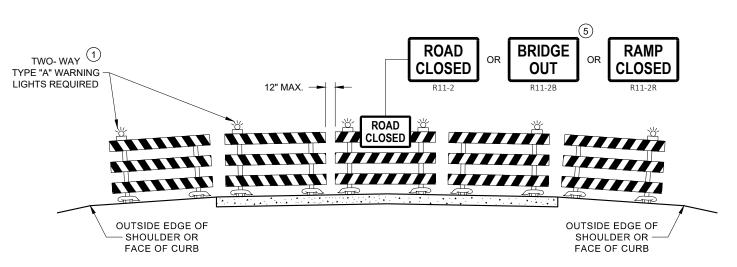




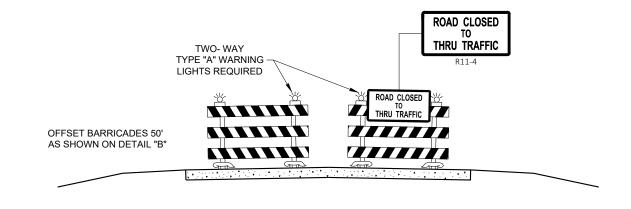








DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



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 <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 2 AND R11 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- (7) "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

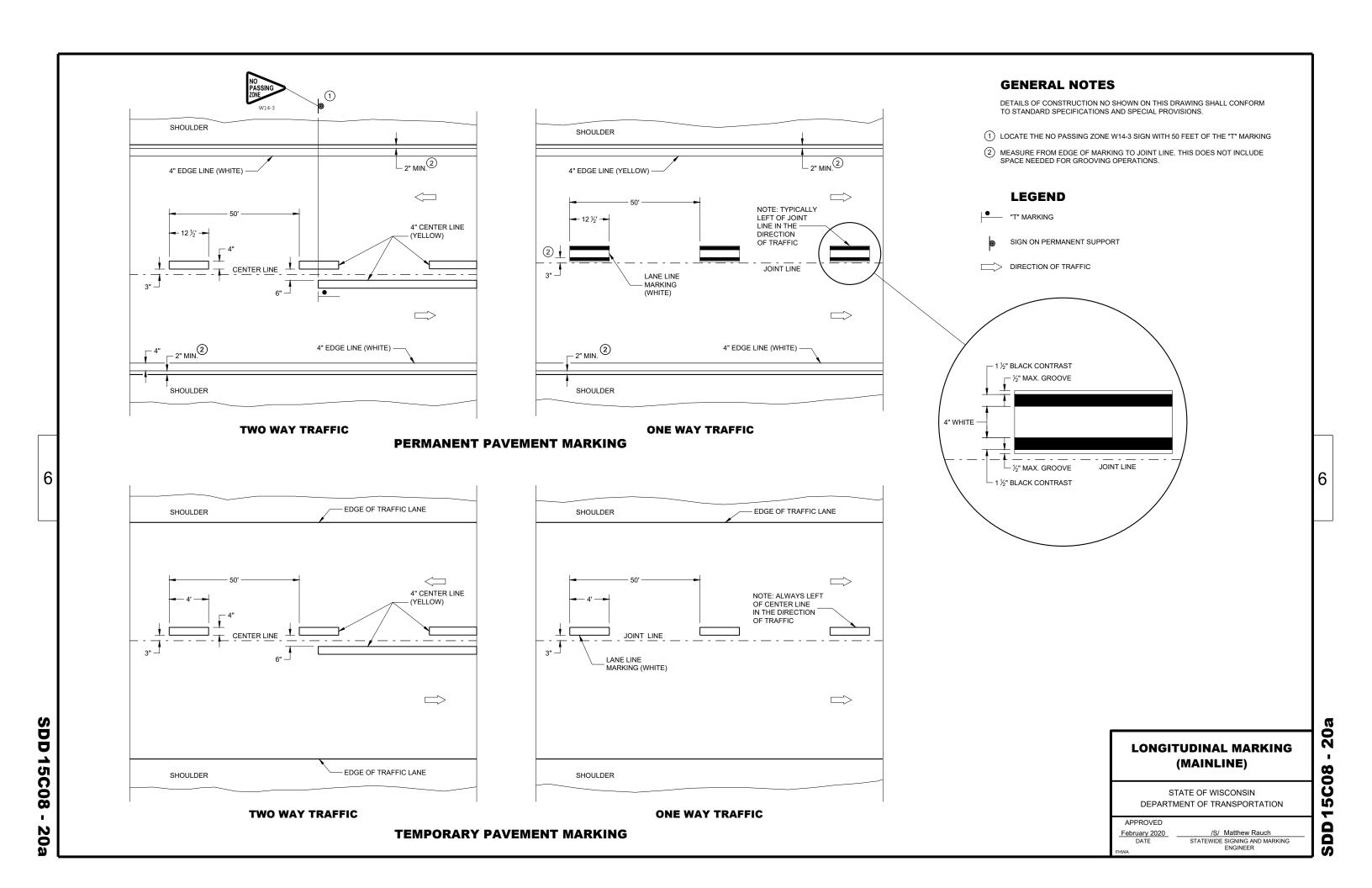
APPROVED

February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

DD 15C02 - 08







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 REQUIREM	POST SPACING REQUIREMENTS						
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

-11

D 15 D ∞

6

Δ

 ∞

6

- 11/2" DIAMETER HOLES

Ω

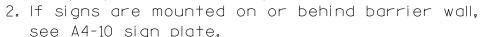
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

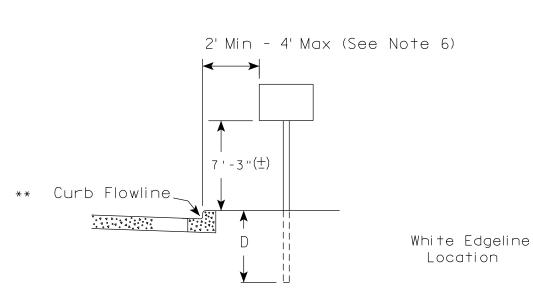
APPROVED

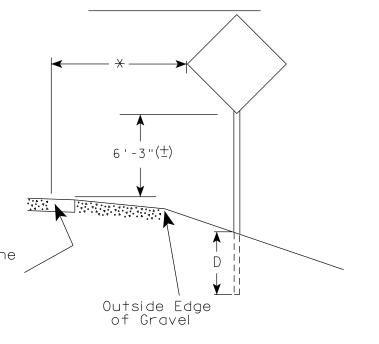
June 2017
DATE



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

- 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 $5' - 3'' \stackrel{(\pm)}{-}$.
- 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.





2' Min - 4' Max (See Note 6) 6'-3"(±) ** Curb Flowline D

5'-3"(士) White Edgeline $D \parallel$ Location 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 measured from the flow line.

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.

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 For State Traffic Engineer

DATE 5/13/2020

SHEET NO:

Ε

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.dgn COUNTY:

PLOT BY: mscj9h

PLOT NAME :

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

PLOT DATE: 13-MAY 2020 1:04



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



ELEVATION VIEW

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



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

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) 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.
- ** 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'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





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

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
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 SCALE: 108.188297:1.000000

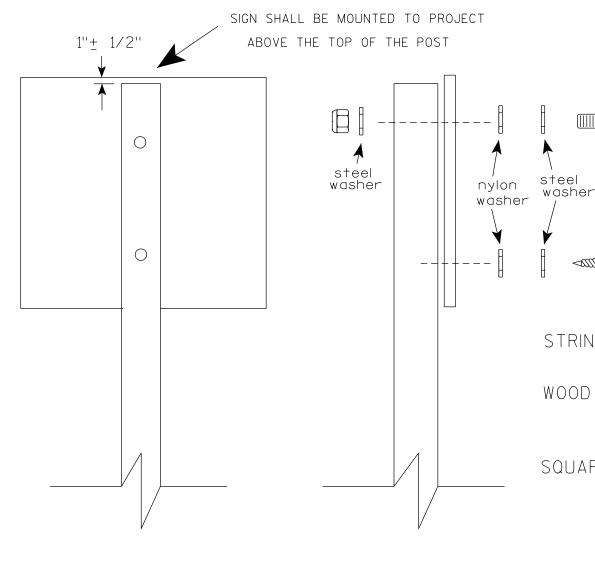
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



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 - 3/32 " (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

APPROVED

DATE 4/1/2020

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

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

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

WISCONSIN DEPT OF TRANSPORTATION

Matther ≠or State Traffic Engineer

SHEET NO:



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

DATE 2/05/15

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

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

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

CHANNEL

GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

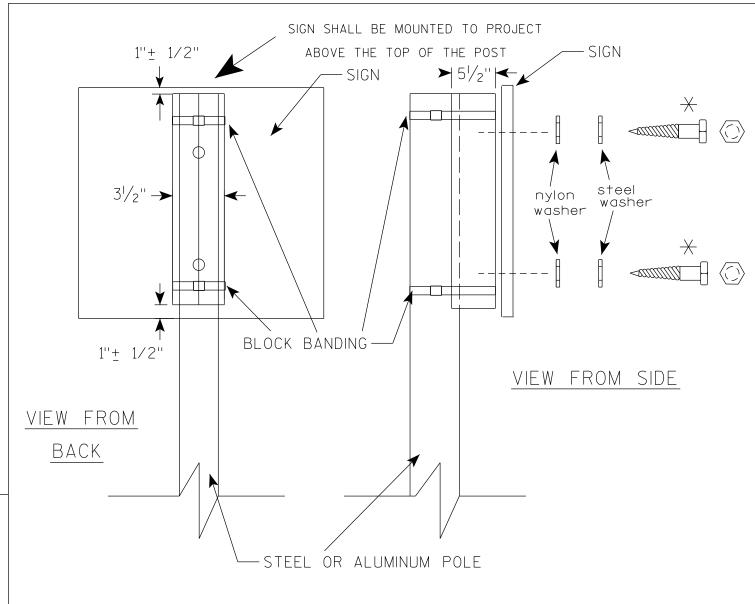
State Traffic Engineer

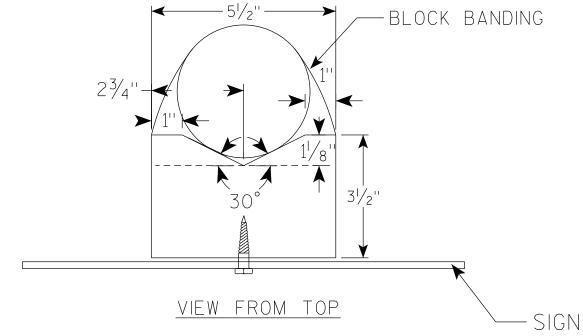
COUNTY:

PLOT NAME :

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

PROJECT NO:





GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $2\frac{1}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Matthew R

APPROVED

For State Traffic Engineer

SHEET NO:

DATE <u>6/10/19</u>

PLATE NO. <u>A5-10.2</u>

PROJECT NO:

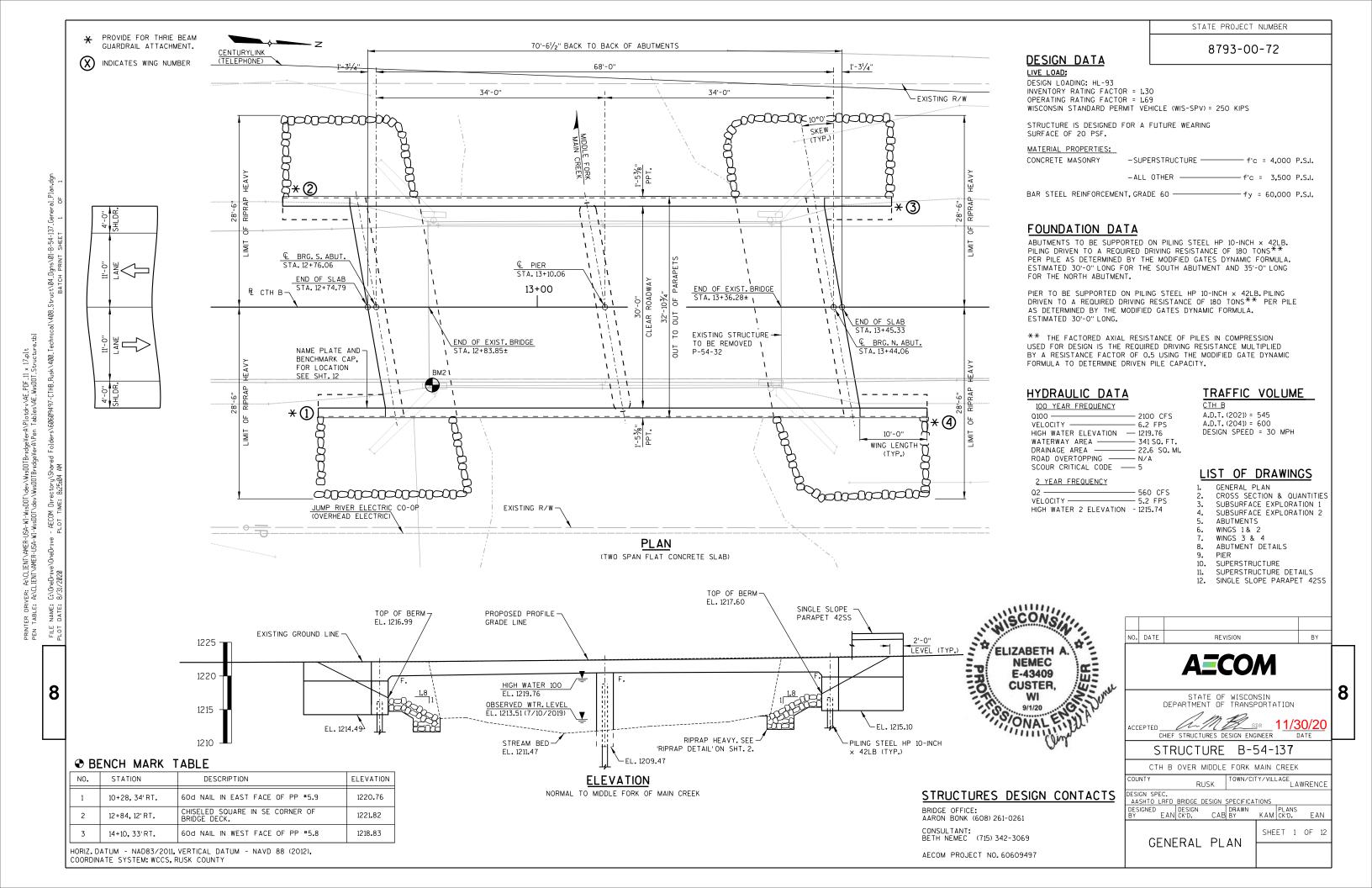
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

PLOT BY : mscj9h

WISDOT/CADDS SHEET 42





8

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE 'HR' WITHIN THE LIMITS SHOWN ON THIS SHEET AND ON THE ABUTMENT SHEETS OR AS DIRECTED BY THE ENGINEER.

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

THE EXISTING STRUCTURE (P-54-32) IS A SINGLE SPAN STEEL DECK GIRDER BRIDGE, 52.7'LONG \times 24.7' WIDE, TO BE REMOVED.

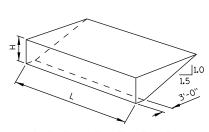
ALL REQUIRED REMOVAL OF THE EXISTING SUBSTRUCTURES IS INCLUDED IN THE BID ITEM "REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS, STATION 13+10."

EXCAVATION REQUIRED UNDER THE BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-54-137" IS NOT USED TO BALANCE THE EARTHWORK.

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.

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

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



WINGS PARALLEL TO ROADWAY

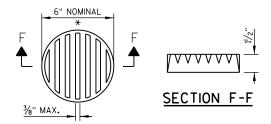
ABUTMENT BACKFILL DIAGRAM

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

= AVERAGE ABUTMENT FILL HEIGHT (FT) = EXPANSION FACTOR (1.20 FOR CY BID ITEMS, AND 1.00 FOR TON BID ITEMS)

= (L)(3.0')(H) + (L)(0.5)(1.5H)(H)

= V_{CF} (EF)/27 = V_{CY} (2.0) V_{TON}

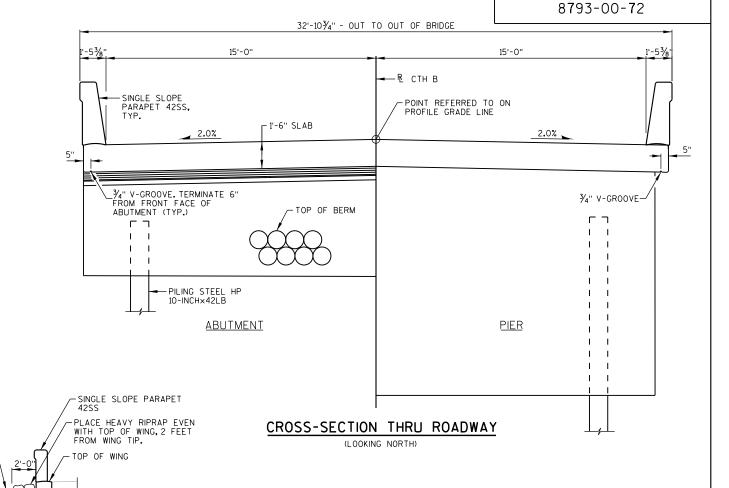


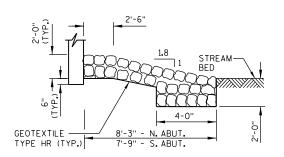
RODENT SHIELD DETAIL

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

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

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.





RIPRAP DETAIL

TYPICAL FILL SECTION AT WING TIPS (TYP.BOTH ABUTMENTS)

WING WALL

GEOTEXTILE, TYPE HR (TYP.)

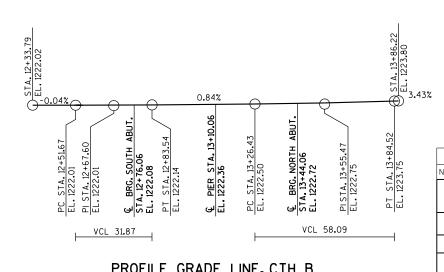
END OF ABUTMENT WING

HEAVY RIPRAP

2.5 MIN.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	SOUTH ABUTMENT	PIER	NORTH ABUTMENT	SUPER.	TOTALS
203.0600.S.01	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS, STATION 13+10	LS					1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-54-137	LS					1
210.1500	BACKFILL STRUCTURE TYPE A	TON	120		120		240
502.0100	CONCRETE MASONRY BRIDGES	CY	33	33	34	152	252
502.3200	PROTECTIVE SURFACE TREATMENT	SY				240	240
502.3210	PIGMENTED SURFACE SEALER	SY	10		10	70	90
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1,915	1,680	1,915		5,510
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2,020	70	2,000	33,730	37,820
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9		9		18
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	150	210	175		535
606.0300	RIPRAP HEAVY	CY	70		80		150
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	80		80		160
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2		2		4
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	50		50		100
645.0120	GEOTEXTILE TYPE HR	SY	160		180		340
	NON-BID ITEMS						
	FILLER	SIZE					1/2" & 3/4"



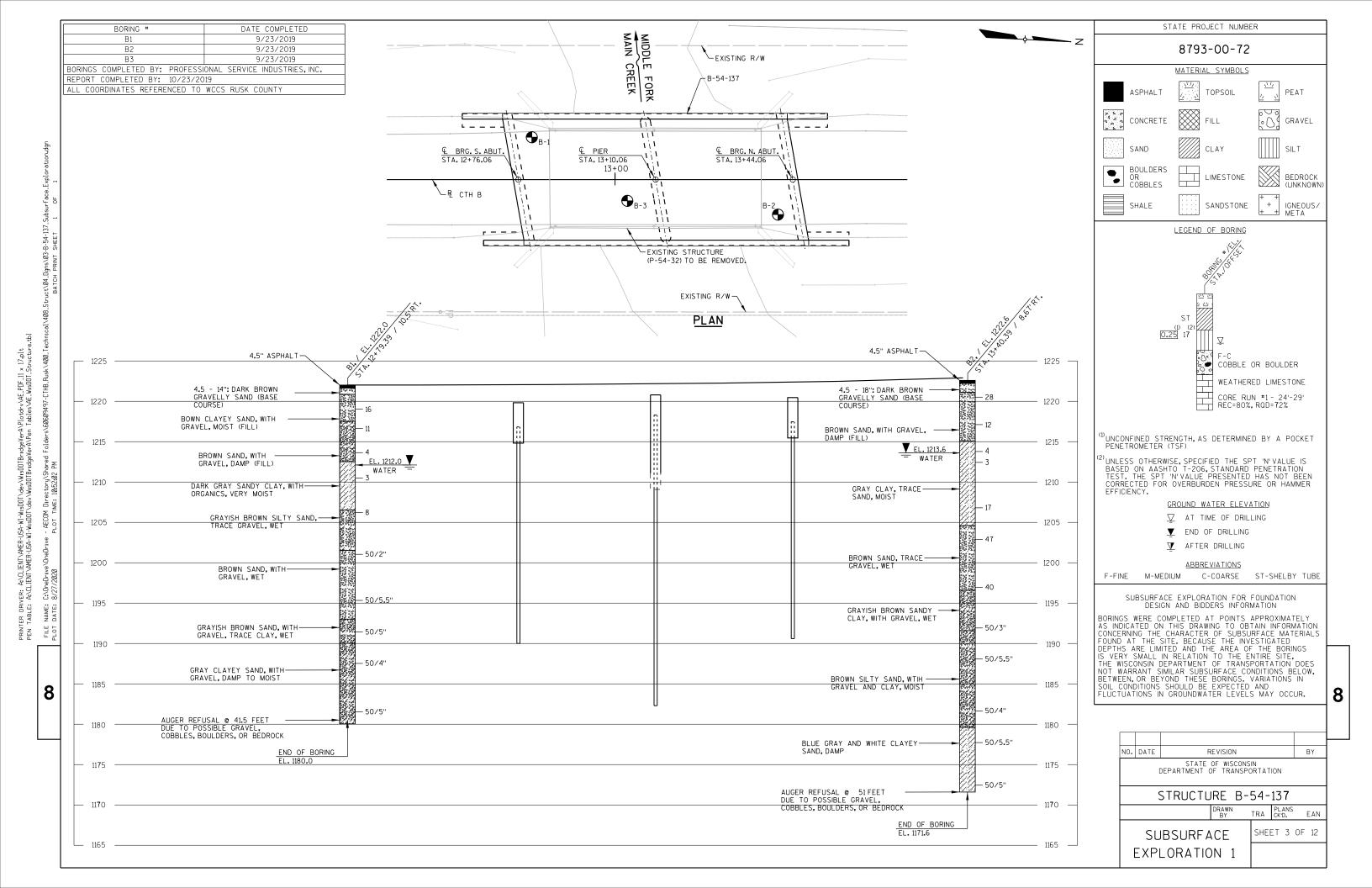
PROFILE GRADE LINE, CTH B

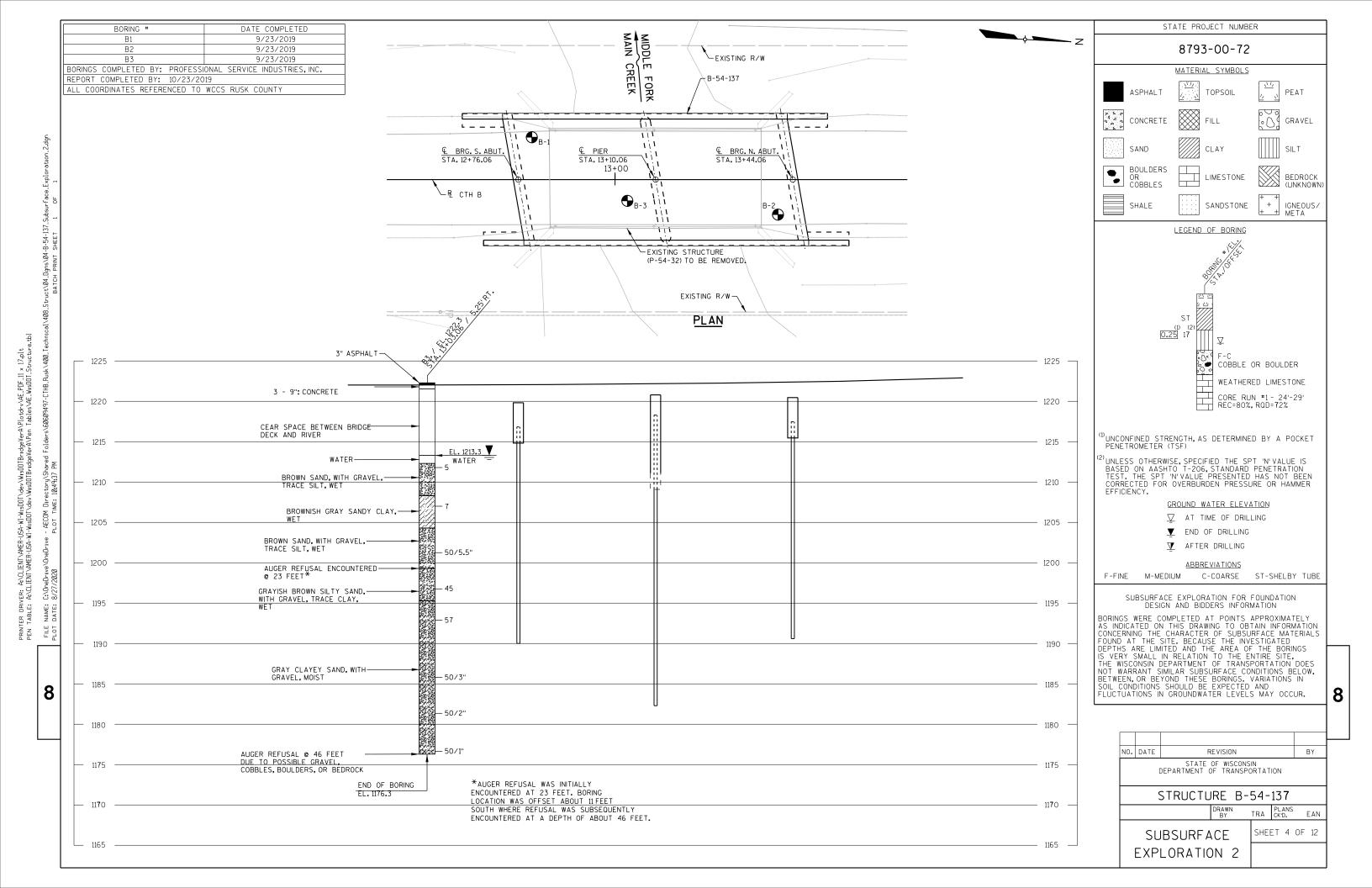
NO. DATE REVISION ΒY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-54-137 TRA CK'D.

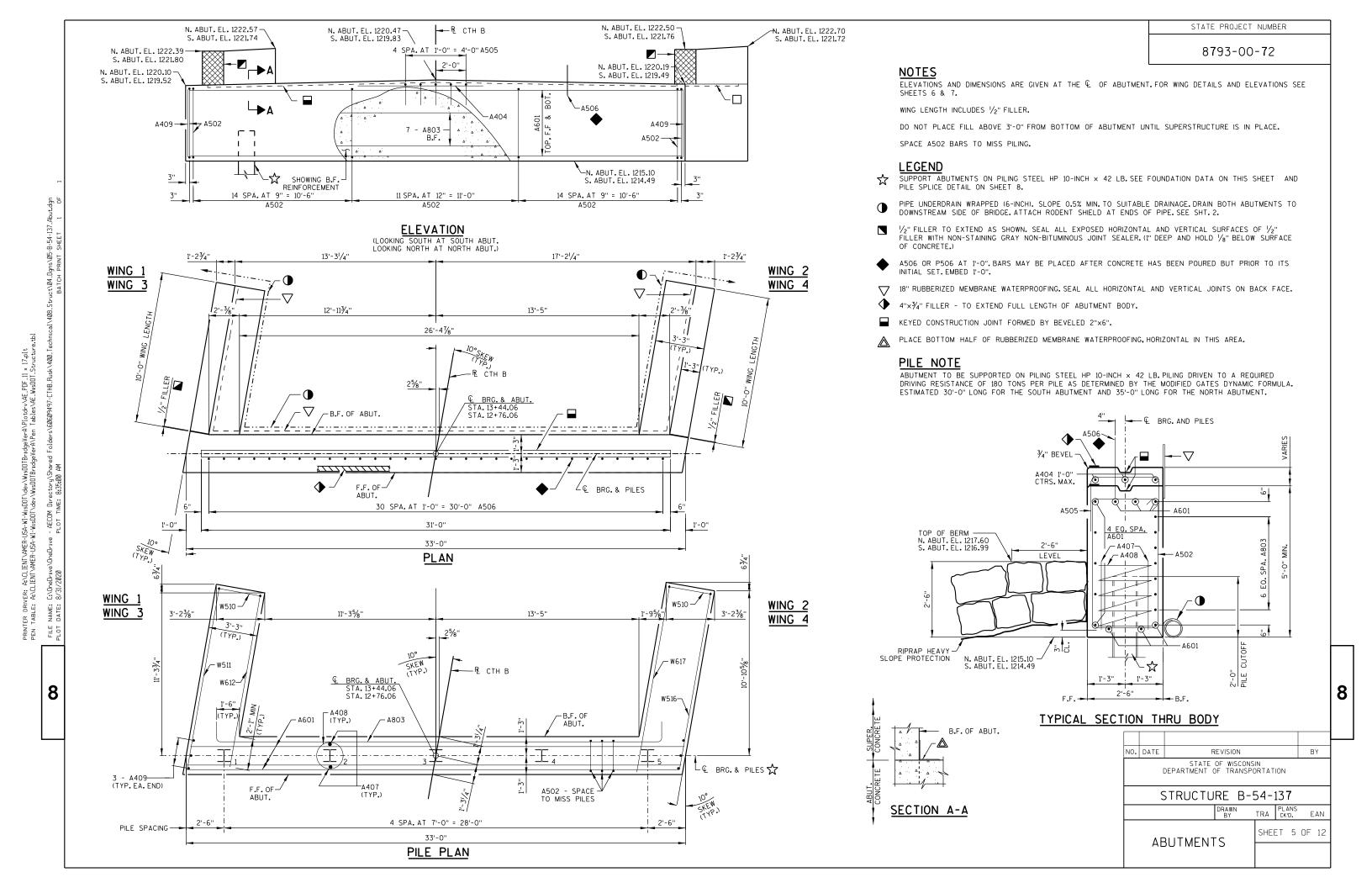
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STATE PROJECT NUMBER

SHEET 2 OF 12 CROSS SECTION & QUANTITIES







SECTION C-C

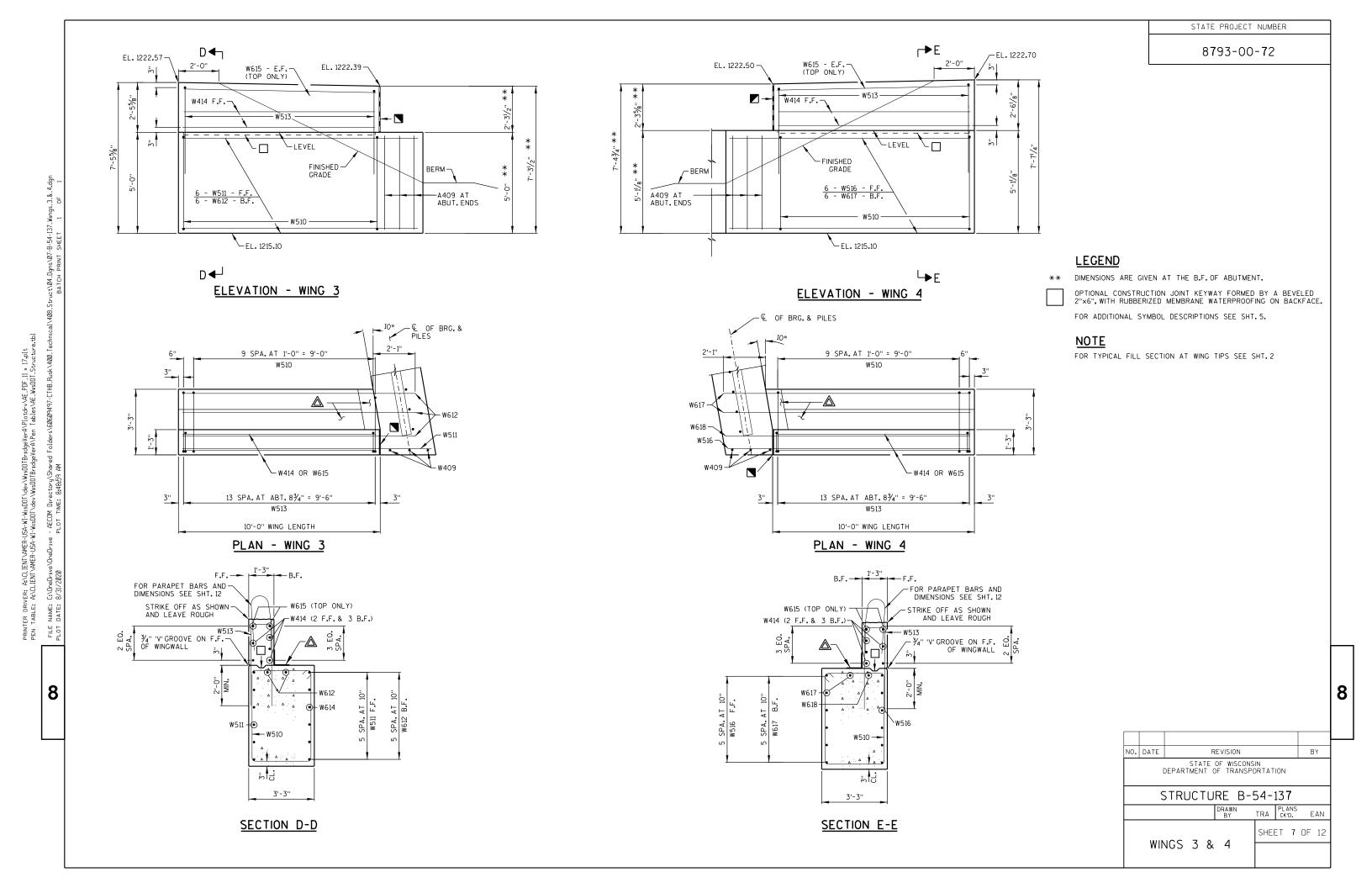
SHEET 6 OF 12

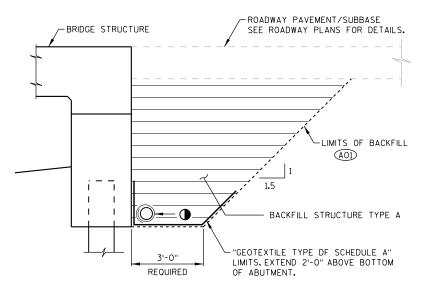
WINGS 1 & 2

ER DRIVER: A:NCLIENTNAMER-USA-WI-WisDOTNdev/WisDOTB-idgeVerANPlotdev/AE_PDF.11 × 17.plt TABLE: A:NCLIENTNAMER-USA-WI-WisDOTNdev/WisDOTB-idgeVerANPen Tables/AE_WisDOT_Structure.tbl

8

SECTION B-B





SECTION THRU ABUTMENT

BACKFILL STRUCTURE LIMITS

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-37-458" SHALL BE THE EXISTING GROUNDLINE.

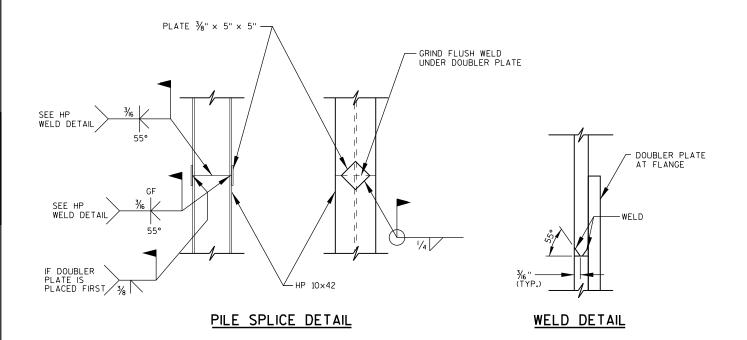
AOI BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

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.

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

PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

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 EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO "EXCAVATION FOR STRUCTURES BRIDGES B-37-458".

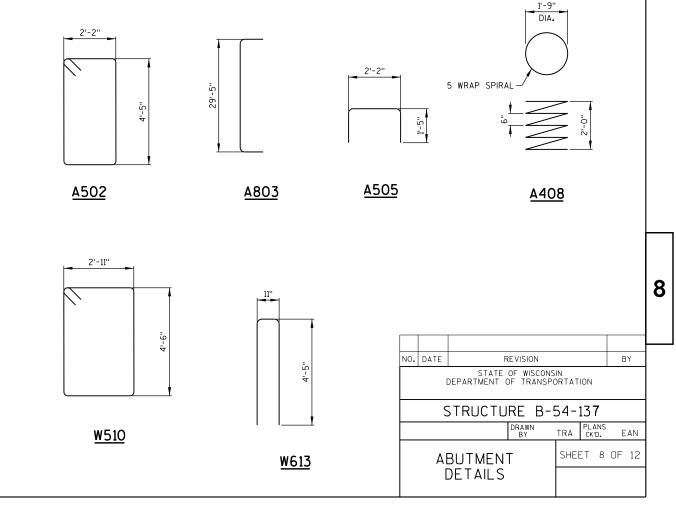


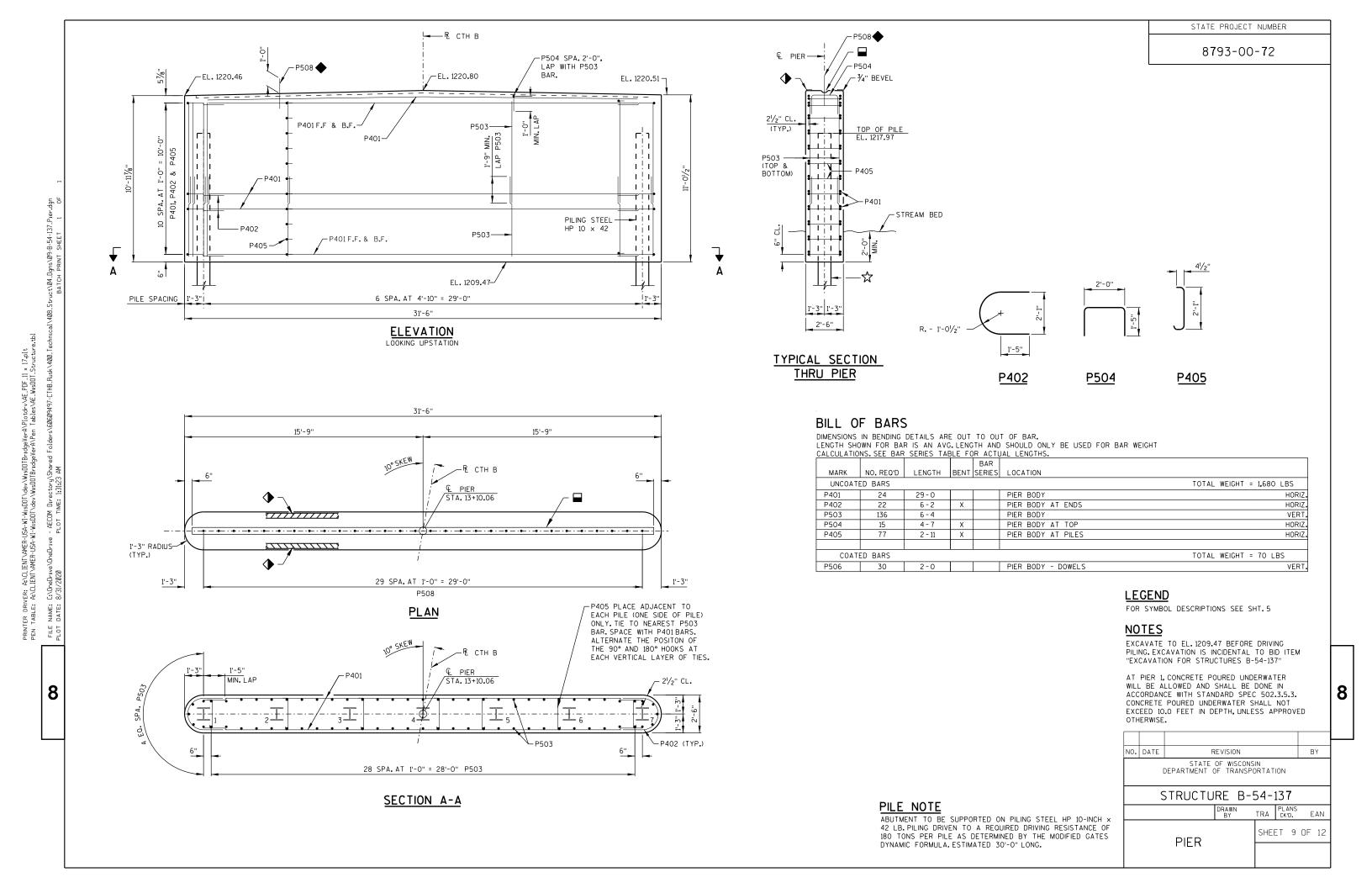
BILL OF BARS

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

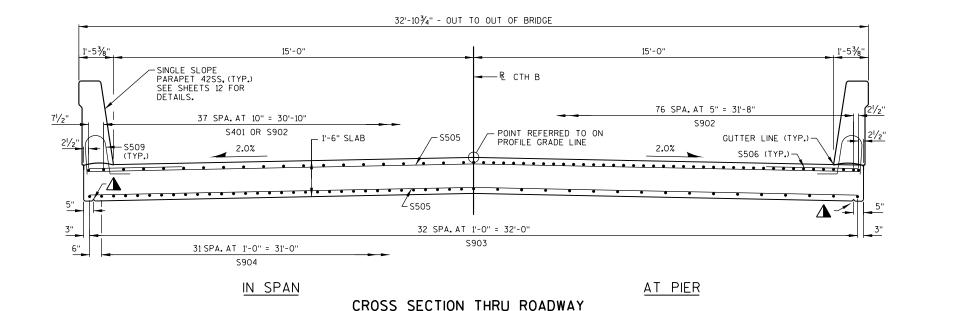
BOTH ABUTMENTS INCLUDED IN THIS BILL OF BARS

0 1111 /11201	110000		T	BAR		
MARK	NO. REQ'D	LENGTH	BENT :	SERIES	LOCATION	
UNCOA.	TED BARS					TOTAL WEIGHT = 3,830 LBS
A601	22	32 - 8			ABUT. F.F. TOP & BOTTOM	HOR
A502	84	14 - 0	X		ABUT. STIRRUP	VEF
A803	14	31 - 8	Х		ABUT. B.F.	HOR
A404	6	9-0			ABUT. TOP	HOR
A505	10	4 - 9	X		ABUT. TOP	VEF
A407	20	2 - 3			ABUT. DOWELS AT PILES	VEF
A408	10	28 - 0	Х		ABUT. AT PILES	VEF
A409	12	4 - 7			ABUT. AT ENDS	VEF
COA	TED BARS	•				TOTAL WEIGHT = 2,560 LBS
A506	62	2-0			ABUT. DOWELS	VEF
W510	44	15 - 6	X		WINGS 1 - 4 STIRRUP	VEI
W511	12	12 - 4			WINGS 1 & 3 F.F.	HOF
W612	16	11 - 7			WINGS 1 & 3 B.F. & TOP	HOF
W513	56	9-9	Х		WINGS 1 - 4 TOP	VEI
W414	20	9 - 7			WINGS 1 - 4 TOP	HOF
W615	8	9 - 7			WINGS 1 - 4 TOP	HOF
W516	12	11 - 11			WINGS 2 & 4 F.F.	НОБ
W617	14	12 - 4			WINGS 2 & 4 B.F. & TOP	НОР
W618	2	12 - 1			WINGS 2 & 4 TOP	НОР
W419	18	2-0			WINGS 1 & 2 DOWELS	HOF
	1	l				





8793-00-72



(LOOKING UPSTATION)

NOTES

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

CAMBER SPAN AS SHOWN TO PROVIDE FOR DEADLOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

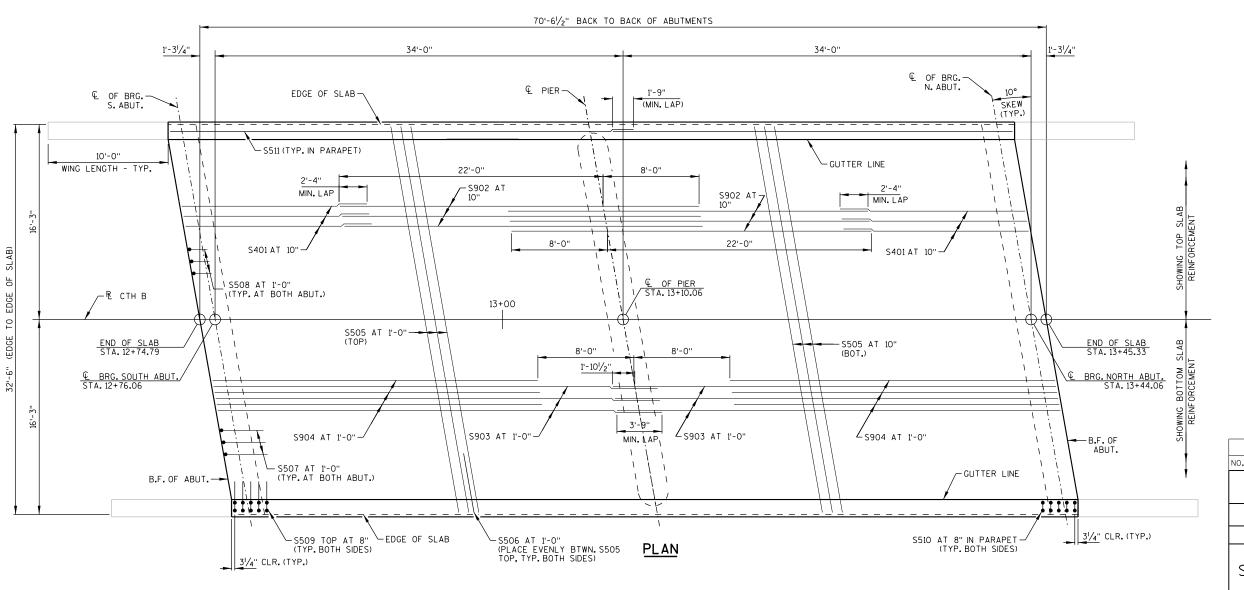
TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE ${\mathbb Q}$ OF ABUTMENTS, ${\mathbb Q}$ OF PIER AND AT 5/10 PT. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF DECK AND CROWN OR ${\mathbb Q}$.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE.

LEGEND

 $rac{3}{4}$ " Continuous V-groove, terminate 6" from front face of abutments.



NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-54-137

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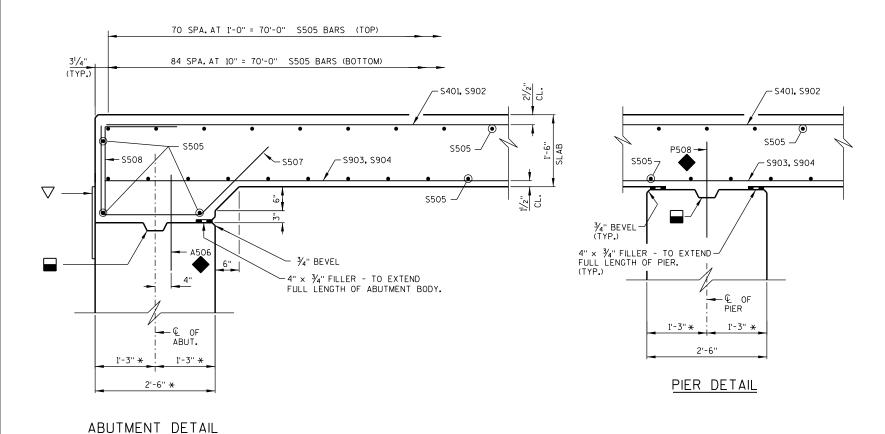
SHEET 10 OF 12

8

SUPERSTRUCTURE

ER DRIVER: A:VCLIENTVAMER-USA-WI-WisDOTVdev\WisDOTB-udgeVerA\Plotdrv\AE_NDF.11 x 17,plt TABLE: A:VCLIENTVAMER-USA-WI-WisDOTVdev\WisDOTB-udgeVerA\Pen Tobles\AE_WisDOT_Structure.tbl

8

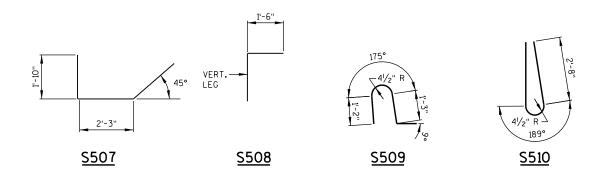


PARTIAL LONGITUDINAL SECTION

BILL OF BARS

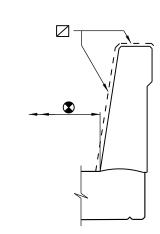
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR. BOTH ABUTMENTS INCLUDED IN THIS BILL OF BARS

COATED BARS TOTAL WEIGHT = 33,730 LBS SLAB - TOP AT ENDS HORIZ. S401 15 - 6 S902 80 30 - 0 SLAB - TOP HORIZ. HORIZ. S903 66 37 **-** 0 SLAB - BOTTOM S904 64 SLAB - BOTTOM HORIZ. S505 162 32 - 7 SLAB - TOP & BOTTOM TRANS TRANS. S506 140 5 - 0 SLAB - TOP AT SIDES S507 SLAB AT ABUT VERT. 66 6-0 S508 3 - 3 VERT. 66 Х SLAB AT ABUT S509 212 4 - 5 Χ SLAB - PARAPET VERT. S510 6 - 8 PARAPET VERT. 212 S511 32 36 - 0 PARAPET HORIZ.

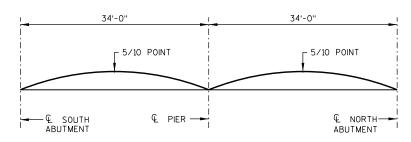


LEGEND

- * DIMENSION TAKEN NORMAL TO SUBSTRUCTURE UNIT.
- COAT WITH "PIGMENTED SURFACE SEALER" AS PER THE STANDARD SPECIFICATIONS.
- KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2"x6".
- \bigvee 18" RUBBERIZED MEMBRANE WATERPROOFING, SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.
- ◆ A506 OR P508 SPACED 1'-O", COATED, BARS MAY BE PLACED AFTER CONCRETE HAS BEEN POURED BUT PRIOR TO ITS INITIAL SET EMBED 1'-0".
- COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER STANDARD SPECIFICATIONS.



SURFACE PROTECTION DETAIL



CAMBER DIAGRAM

SPAN 1	CL BRG. S. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	CL BRG. PIER
CAMBER (IN.)	0.0	0.2	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.0

S	SPAN 2	CL BRG. PIER	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.		CL BRG. N.
	AMBER	0.0	0.1	0.2	0.3	0.4	0.5	0.0	0.5	0.4	0.2	0.0

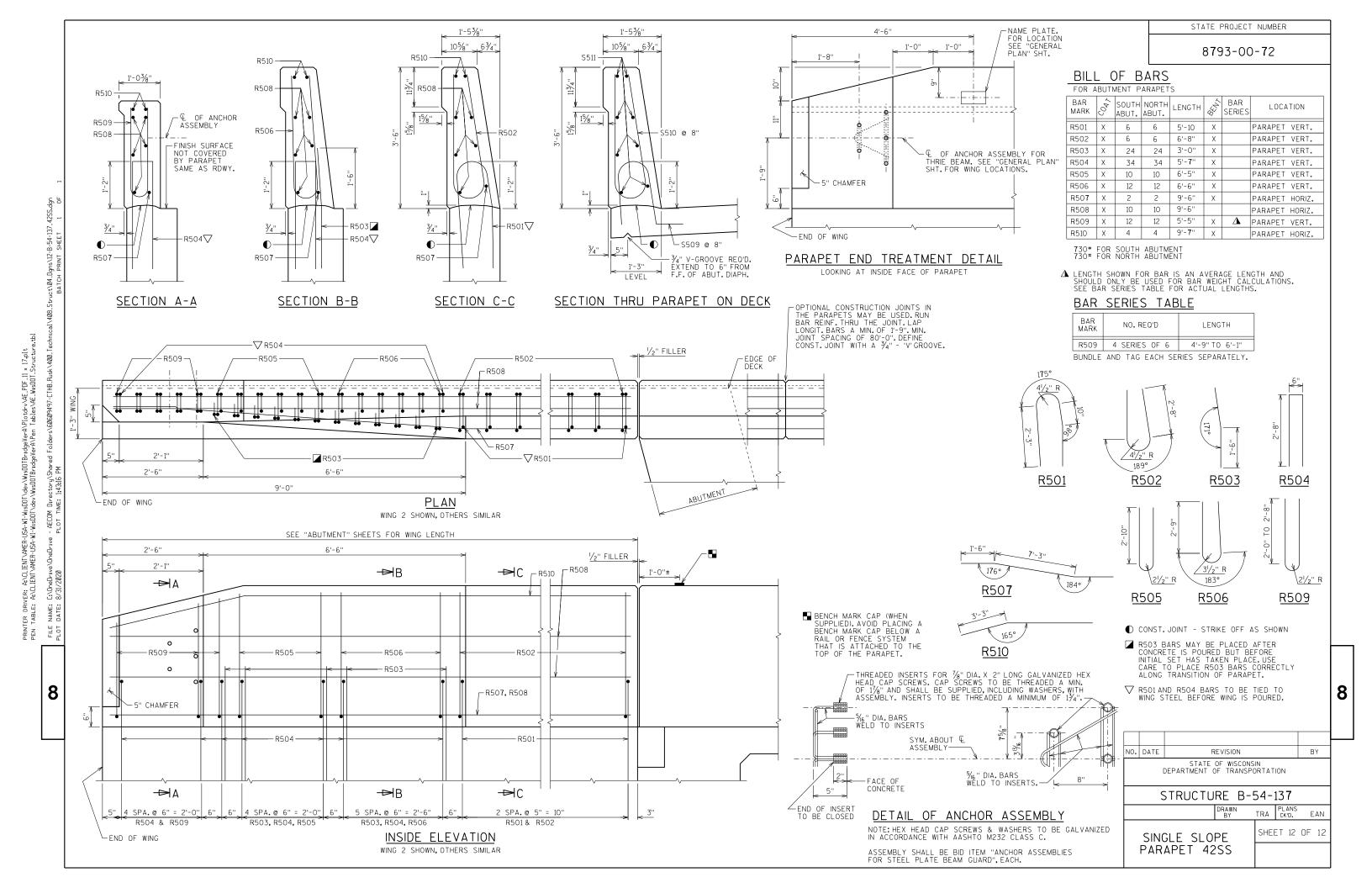
TOP OF DECK ELEVATIONS - SPAN 1

SPAN 1	CL BRG. S. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	CL BRG. PIER
WEST EDGE OF DECK	1222.07	1222.09	1222.11	1222.14	1222.17	1222.20	1222.22	1222.25	1222.28	1222.31	1222.34
CL OF DECK	1222.08	1222.11	1222.13	1222.16	1222.19	1222.22	1222.25	1222.28	1222.31	1222.33	1222.36
EAST EDGE OF DECK	1222.10	1222.13	1222.16	1222.19	1222.21	1222.24	1222.27	1222.30	1222.33	1222.36	1222.39

TOP OF DECI	OP OF DECK FLEVATIONS - SPAN 2											
SPAN 2	CL BRG. PIER	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	CL BRG. N. ABUT	
WEST EDGE OF DECK	1222.34	1222.37	1222.40	1222.42	1222.45	1222.48	1222.51	1222.55	1222.58	1222.63	1222.68	
CL OF DECK	1222.36	1222.39	1222.42	1222.45	1222.48	1222.51	1222.54	1222.58	1222.62	1222.67	1222.72	
EAST EDGE OF DECK	1222.39	1222.42	1222.44	1222.47	1222.50	1222.54	1222.57	1222.61	1222.66	1222.71	1222.77	

NO.	DATE	F	REVISION BY								
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION										
	STRUCTURE B-54-137										
	DRAWN TRA PLANS BY TRA CK'D.										
S	UPE	RSTRUC	SHE	ET 11	OF	12					
		DETAILS									

8



			AREA (SF)			INCRE	MENTAL VOL (CY) (UNADJU	STED)	CUMULATIVE VOL (CY)		
STATION	REAL STATION	DISTANCE	сит	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL 1.25	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
10+54.95	1055	-	0.0	8.3	0.0	0	0	0	0	0	0
10+84.95	1085	30	22.6	8.3	25.2	13	9	14	0	17	-14
11+00.00	1100	15	31.1	8.3	32.0	15	5	16	0	37	-24
11+14.95	1115	15	29.6	8.3	47.5	17	5	22	0	65	-39
11+29.65	1130	15	19.8	8.3	62.4	13	4	30	0	102	-67
11+39.94	1140	10	17.5	8.3	68.5	7	3	25	0	134	-95
11+50.00	1150	10	14.2	8.3	77.3	6	3	27	0	167	-126
11+59.66	1160	10	10.3	8.3	79.5	4	3	28	0	203	-159
11+64.91	1165	5	10.4	8.3	78.4	2	2	15	0	222	-178
11+84.65	1185	20	10.8	8.3	61.3	8	6	51	0	286	-240
12+00.00	1200	15	11.1	8.3	61.7	6	5	35	0	329	-282
12+09.62	1210	10	11.8	8.3	63.6	4	3	22	0	357	-309
12+33.79	1234	24	11.9	8.3	41.8	11	7	47	0	416	-365
12+50.00	1250	16	42.4	8.3	35.0	16	5	23	0	445	-382
12+74.79	1275	25	40.7	8.3	77.4	38	8	52	0	509	-416
			•		Column totals	160	67	407			<u>. </u>

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PROJECT NO: 8793-00-72 HWY: CTH B COUNTY: RUSK EARTHWORK SHEET **E**

FILE NAME: P:\60285986\000_CAD\010_Printing\0901_ew.pdf

PLOT DATE: 8/18/2020 8:42 AM PLOT BY: DOLAN, ISAAC PLOT NAME: PLOT NAME: PLOT NAME: 41

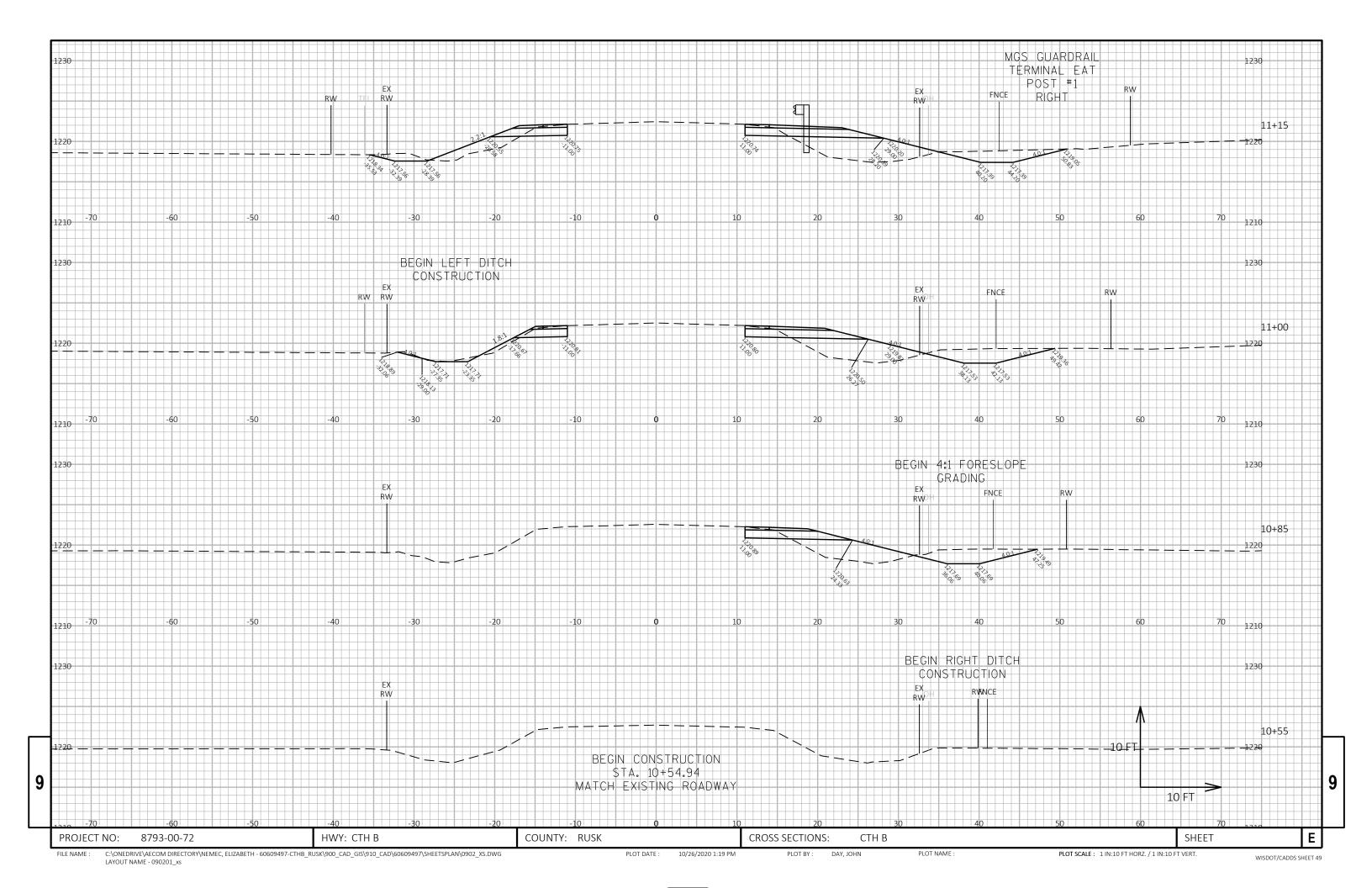
	REAL STATION		AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION		DISTANCE	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	СИТ	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT EXPANDED FILL 1.25	MASS ORDINATE	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
13+10.06	1310	0	0.0	0.0	0.0	0	0	0	0	0	0
13+45.33	1345	35	45.3	8.3	64.9	30	5	42	0	53	-29
13+50.00	1350	5	48.4	8.3	42.4	8	1	9	0	65	-34
13+86.22	1386	36	44.1	8.3	25.8	62	11	46	0	122	-40
14+00.00	1400	14	12.0	8.3	41.9	14	4	17	0	143	-51
14+10.50	1411	11	11.7	8.3	55.5	5	3	19	0	167	-74
14+35.48	1435	25	11.5	8.3	85.0	11	8	65	0	248	-152
14+50.00	1450	15	11.5	8.3	92.1	6	4	48	0	308	-210
14+55.21	1455	5	11.6	8.3	94.6	2	2	18	0	330	-232
14+60.47	1460	5	11.8	8.3	122.8	2	2	21	0	357	-257
14+80.19	1480	20	13.2	8.3	82.4	9	6	75	0	450	-348
14+90.46	1490	10	14.6	8.3	49.2	5	3	25	0	482	-377
15+00.00	1500	10	15.3	8.3	32.7	5	3	14	0	500	-393
15+05.18	1505	5	14.7	8.3	37.9	3	2	7	0	508	-400
15+20.46	1520	15	11.8	8.3	41.7	7	5	23	0	536	-425
15+35.18	1535	15	6.5	8.3	24.9	5	4	18	0	559	-447
15+50.00	1550	15	6.5	8.3	9.1	4	5	9	0	571	-460
15+65.17	1565	15	0.0	8.3	0.0	2	5	3	0	574	-466
					Column totals	180	73	459			

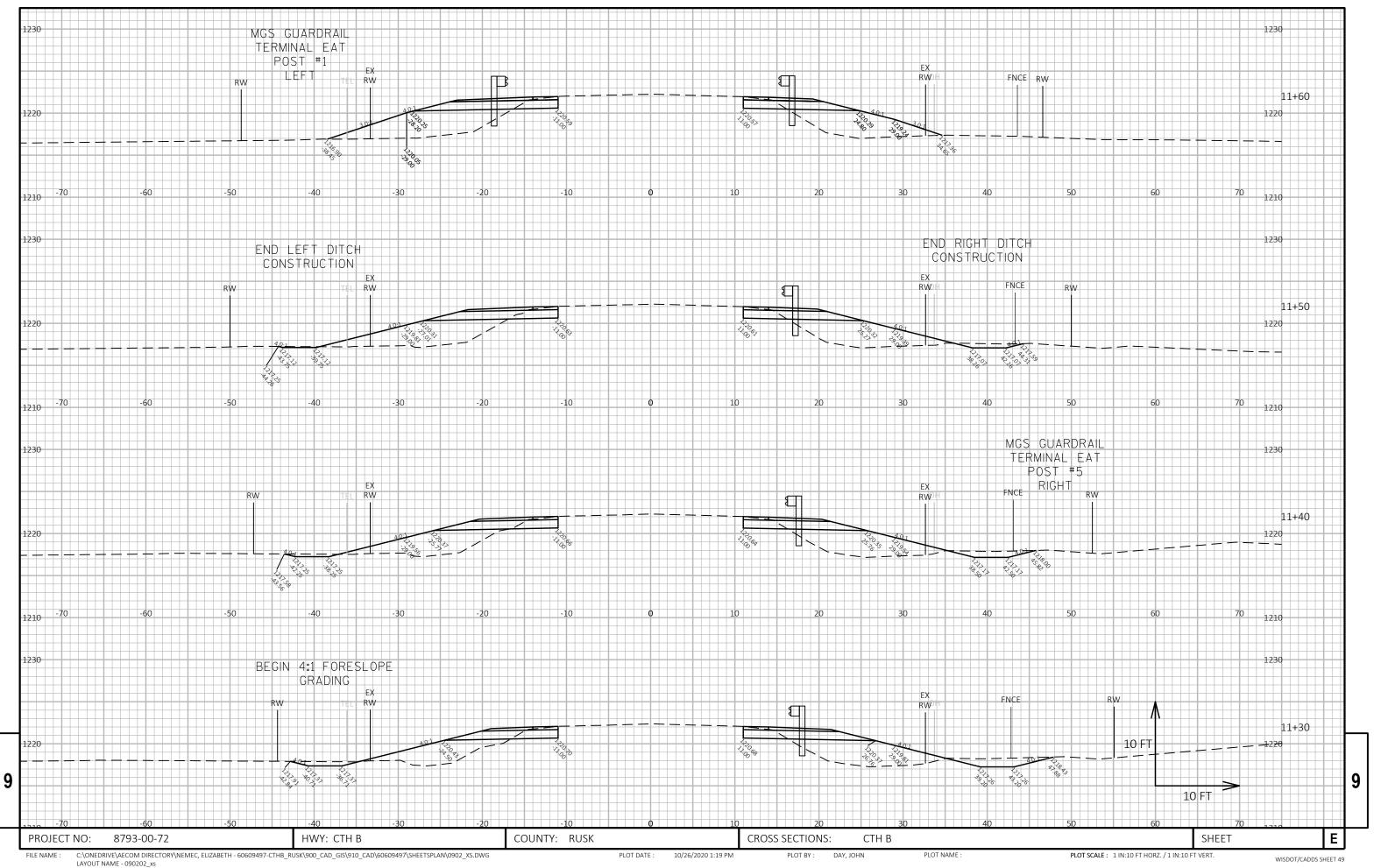
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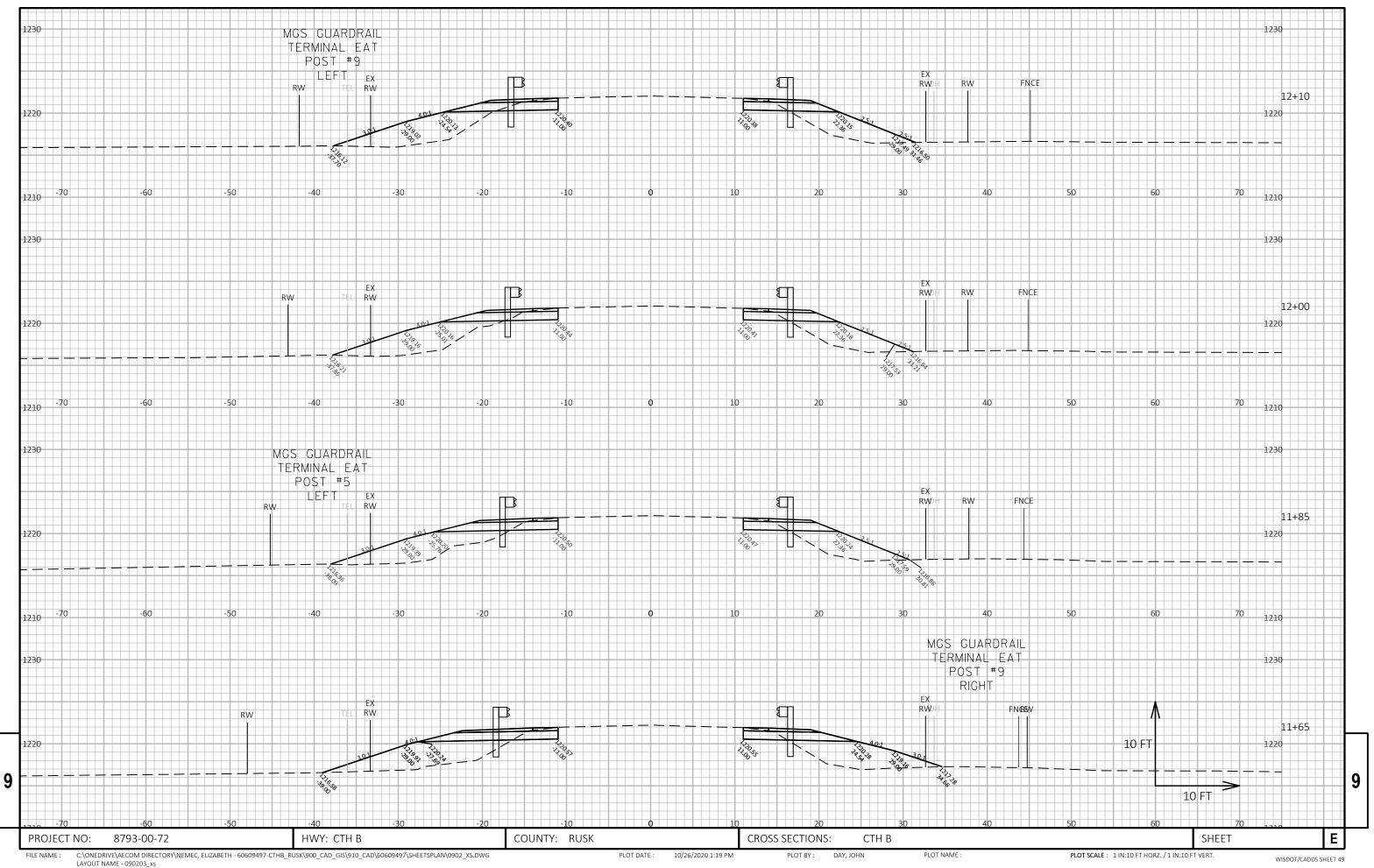
PROJECT NO: 8793-00-72 HWY: CTH B COUNTY: RUSK EARTHWORK SHEET **E**

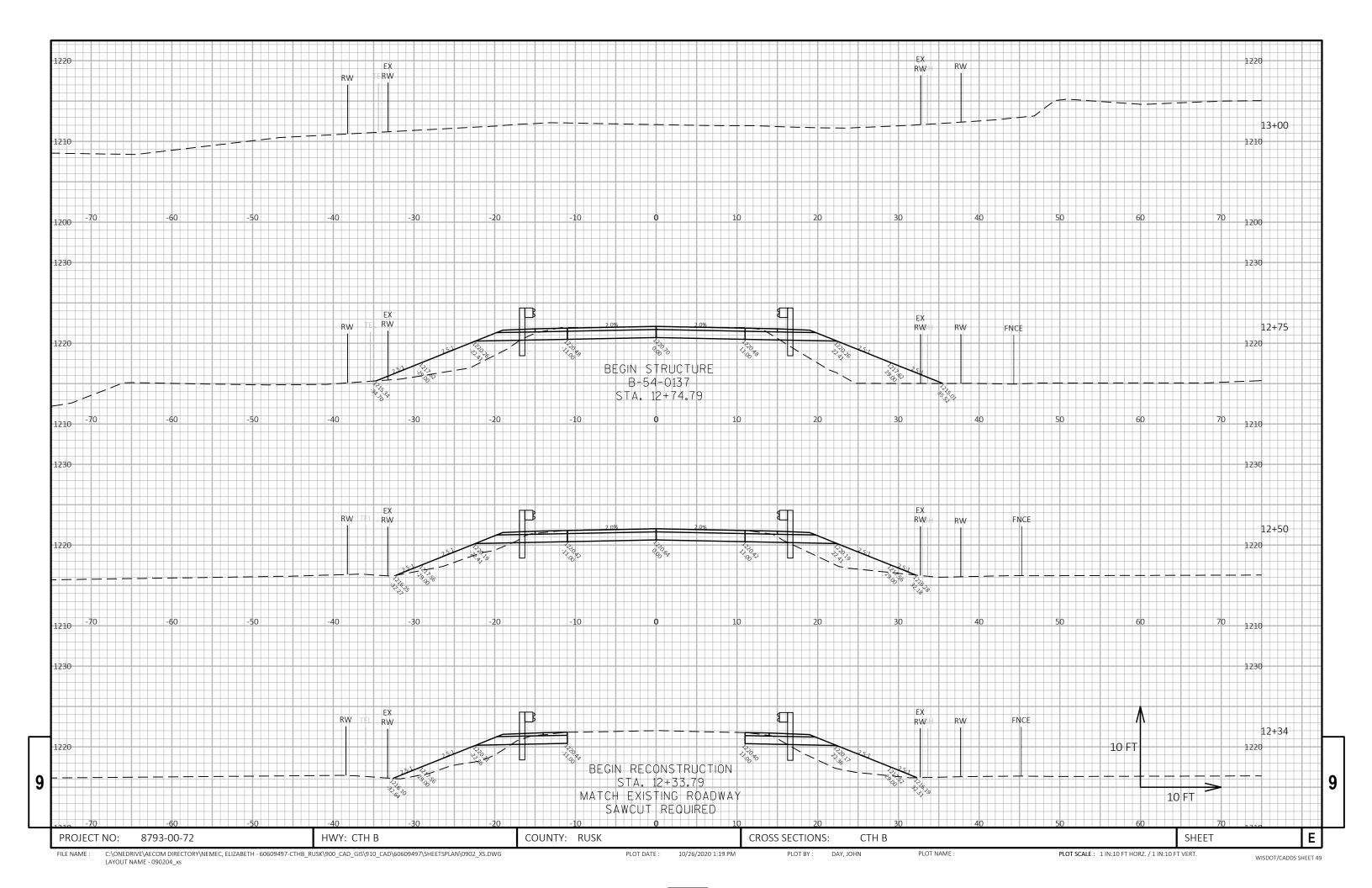
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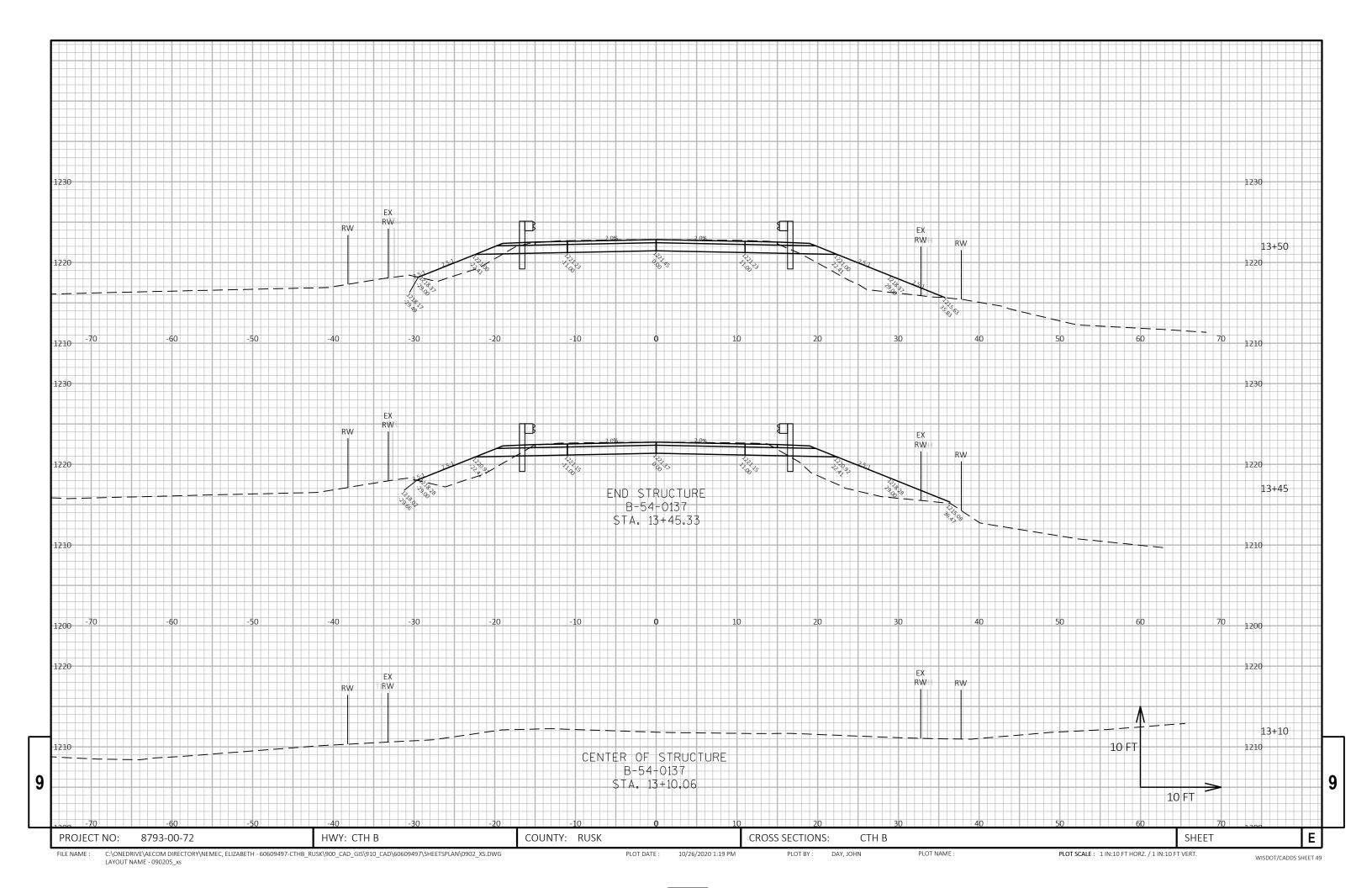
PLOT BY: DOLAN, ISAAC PLOT NAME: PLOT SCALE: WISDOT/CADDS SHEET 41

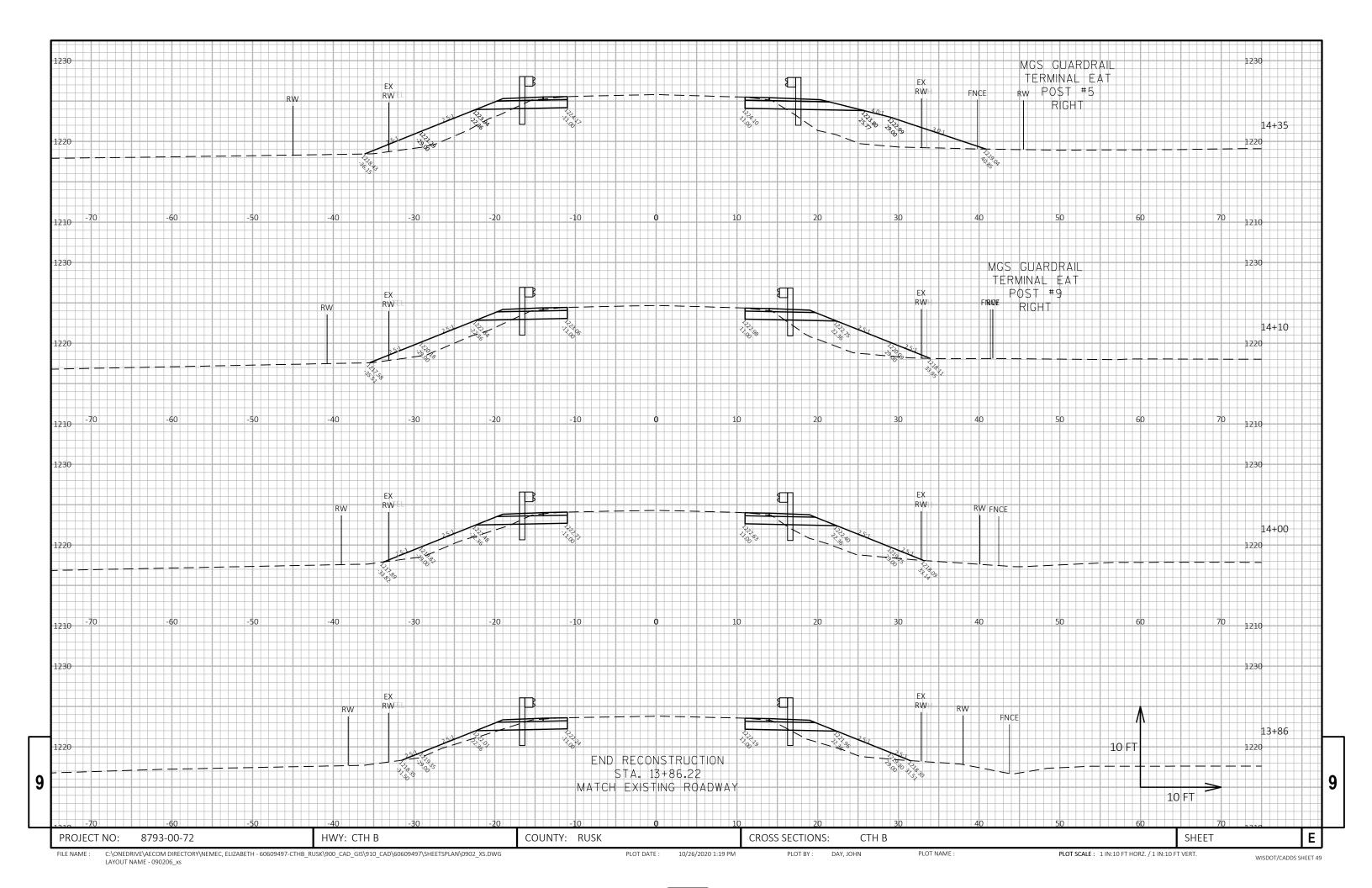


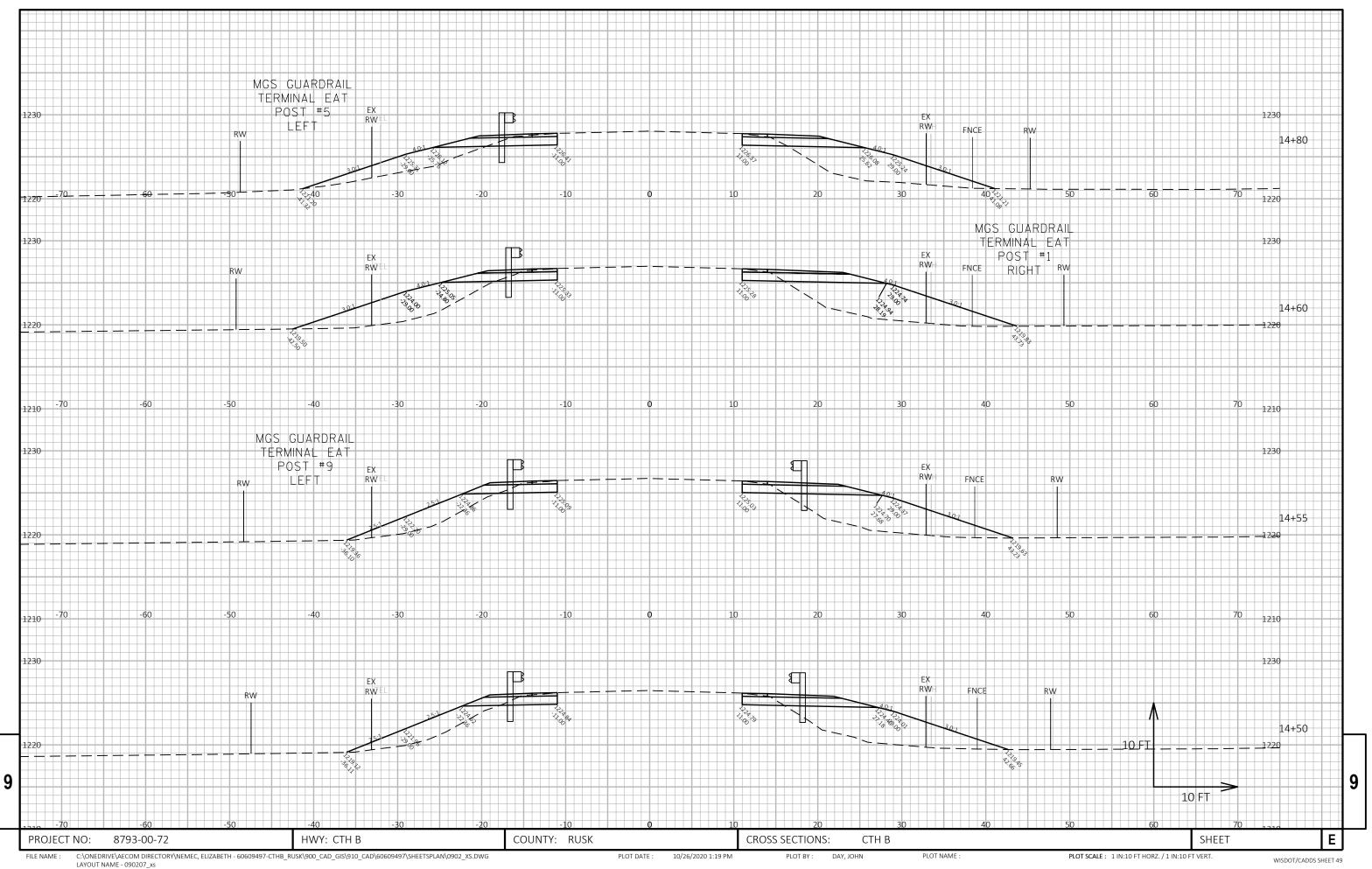


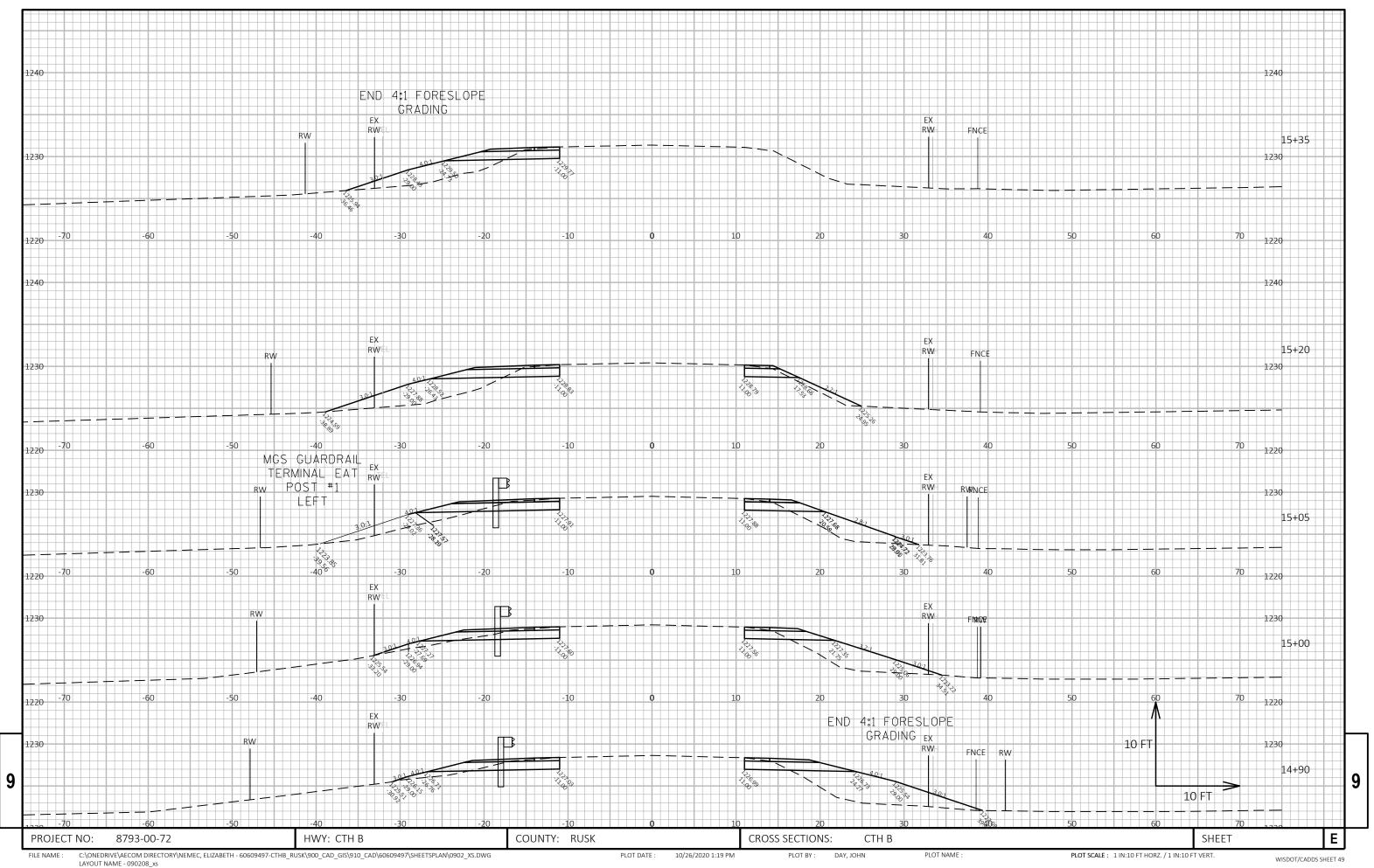




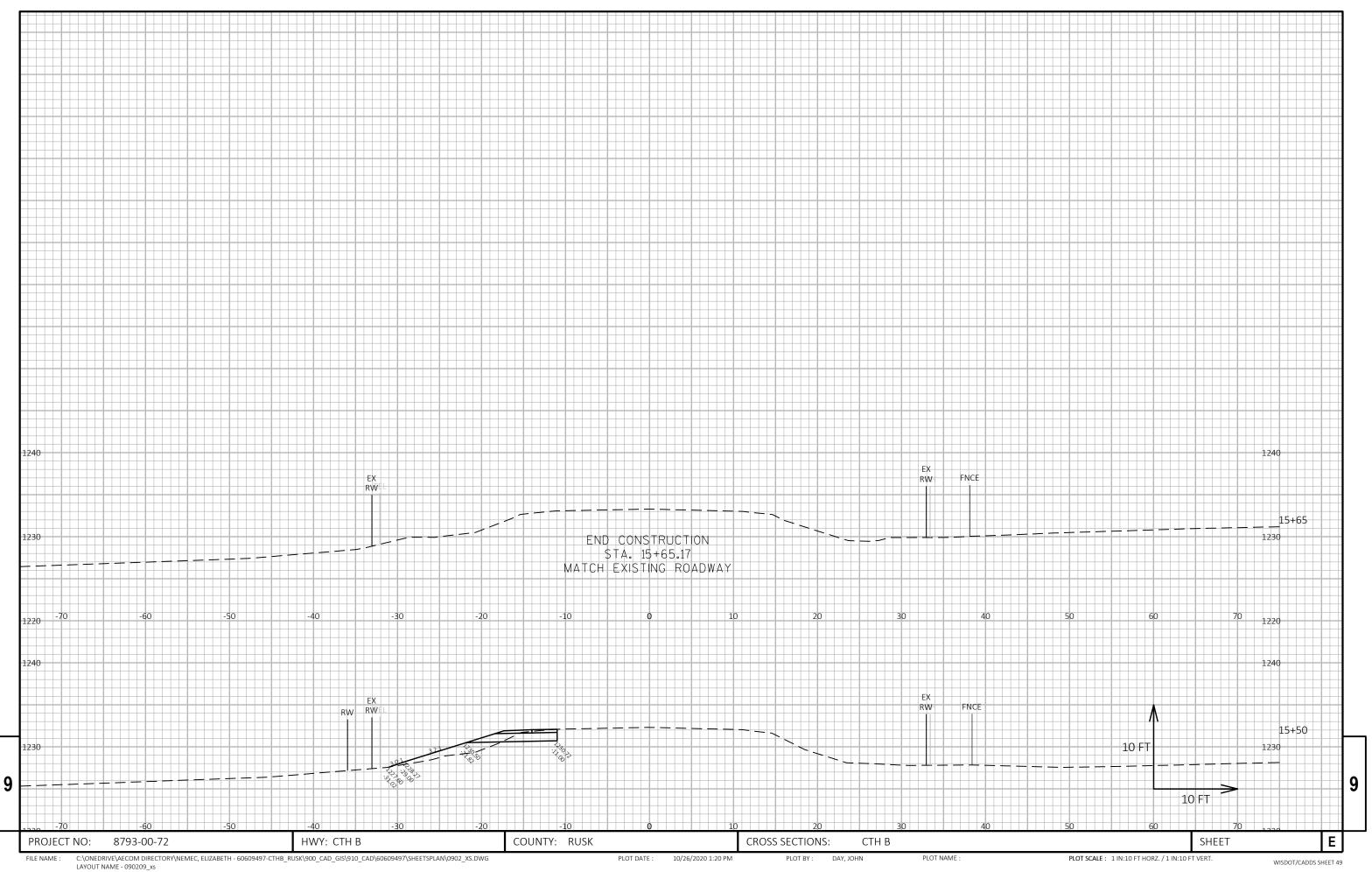








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Wisconsin Department of Transportation

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