EBRUARY 2017		STATE PROJECT	FEDERAL PROJE	CT
ORDER OF SHEETS	STATE OF WISCONSIN	constructive to the state of th	PROJECT	CONTRACT
Section No. 1 Title		6799-01-70	WISC 2017027	1
	1 Sections and Details (Includes Erosion Control Plans) DEPARTMENT OF TRANSPORTATION			
Section No. 3 Misce.	laneous Quantitles			
•	of Way Plat  PLAN OF PROPOSED IMPROVEMENT  Ind Profile		aaraa kansanaa saasa saasaa saasaa saasaa saasaa saasaa	PHO OZECZENIA KODZOWANIA WYWOCZA WYDZO
Section No. 6 Stando Section No. 7 Sign I	rd Detail Drawings			
Section No. 8 Struc	ure Plans IOWN HALL ROAD - BROWN IHRUSH ROAD			
•	er Earthwork Data Sections  MILL CREEK BRIDGE B-49-0183			·
TOTAL SHEETS = 66	CTH G			
TOTAL SHEETS GO	PORTAGE COUNTY			
	PORTAGE COUNTY			
MA	STATE PROJECT NUMBER			
	6799-01-70 END PROJECT 6799-01-70	<u>,</u>		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		ſ	ACCEPTED FOR	
			PORTAGE COUNTY	
	CAK (		10	
	T-25-N T-24-N	T-25-N T-24-N	DATE: 2/18/16 (Signatu	Jre)
	$\mathbf{P}_{\parallel}$		Highway Co	maissiere
•			ORIGINAL PLANS PREPARED	
DESIGN DESIGNATION	STRUCTURE B-49-183			
A.A.D.T. 2017 = 140 A.A.D.T. 2037 = 180	Junction  ELM RD  STRUCTURE B-49-163		ASSOCIAT	E S
D.H.V. = 18 D.D. = 60/40	BEGIN PROJECT 6799-01-70			
T. = 5.1% DESIGN SPEED = 40 M			Wigcons.	1,
ESALS = 14,60	0 THRUSH RD		INDICTOEED D	1111
CONVENTIONAL SYMBOLS PLAN	THUCK IN WOOD'S	5	KRISTUTEN N	:★= 
CORPORATE LIMITS	THILOS LN  TOWN HALL RD	=	OLSON E-35236 O. APPLETON	篇
PROPERTY LINE  LOT LINE	PROFILE GRADE LINE		Masstone Ole	iei
LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY	ORIGINAL GROUND	=	ONALE	111.
PROPOSED OR NEW R/W LINE	(To be noted as such)		7/14/16	
SLOPE INTERCEPT	CARSON		, ,	
REFERENCE LINE	CULVERT (Profile View)  CULVERT (Profile View)  CULVERT (Profile View)  CULVERT (Profile View)		STATE OF WISCON DEPARTMENT OF TRANSP	
PROPOSED CULVERT	UTILITIES  BUBBIS LIV		PREPARED BY	/
(Box or Pipe)	ELECTRIC — E — ORIOLE RD		Surveyor OMNNI ASSO	
HIGH VOLTAGE CAUTION	CÁUTION GAS — G —			
COMBUSTIBLE FLUIDS	SANITARY SEWER — SAN —		Management Consultant <u>CEDAR</u> (	CORP
WETLAND ADDA	CITIN WATER		APPROVED FOR THE DEPARTMENT (	41.0
WETLAND AREA	HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCO UTILITY PEDESTAL  TOTAL NET LENGTH OF CENTERLINE = 0.080 MI COORDINATES, PORTAGE COUNTY, NAVD 88, IN U.S. SI	JRVEY FEET. VALUES	DATE: 7-29-20 16 (Signatu	ure)
WOODED OR SHRUB AREA	POWER POLE  ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES MAY BE USED AS GROUND DISTANCES.  TELEPHONE POLE  Ø	STANDED: GIVED	-	E

**GENERAL NOTES** 

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

FILL AS SHOWN ON THE PLANS PERTAINS TO EMBANKMENTS CONSTRUCTED FROM COMMON EXCAVATION. THE ALLOWANCE USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 25 PERCENT. ALL FILL VOLUMES SHOWN ARE THE ACTUAL VOLUMES.

WHEN THE QUANTITY OF BASE AGGREGATE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF MATERIAL AS DIRECTED BY THE ENGINEER.

HMA PAVEMENT 4" DEPTH

- 1 3/4" UPPER LAYER (TYPE 4 LT 58-28 S)
- 2 1/4" LOWER LAYER (TYPE 3 LT 58-28 S)

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

ALL DISTURBED AREAS, NOT OTHERWISE SURFACED ARE TO BE TOPSOILED, FERTILIZED, TEMPORARY SEEDED, SEEDED AND COVERED WITH EROSION MAT OR MULCH.

SEED MIXTURE NO. 60 SHALL BE USED AT THE TOE OF SLOPES ADJACENT TO WETLANDS AND STREAM BANK IN FRONT OF THE SOUTH ABUTMENT. SEED MIXTURE NO. 20 SHALL BE USED ON ALL OTHER DISTURBED AREAS.

WETLAND AREAS ARE SHOWN ON THE PLANS. CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO WORK WITHIN THE SLOPE INTERCEPTS IN THE WETLAND AREAS.

THE EXACT LOCATIONS OF ALL EROSION CONTROL ITEMS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE WISCONSIN DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR A MONUMENT WHICH SHALL BE SET IN THE STRUCTURE AS DESIGNATED BY THE ENGINEER.

DISTANCES SHOWN ON THIS PLAN ARE GROUND DISTANCES.

#### **EROSION CONTROL NOTES**

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

TOTAL PROJECT AREA = 1.13 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.82 ACRES UTILITIES

TELEPHONE TDS TELECOM

10 COLLEGE AVENUE, SUITE 218A

APPLETON, WI 54911 ATTN: STEVE JAKUBIEC TELEPHONE: 920-882-4166 CELL PHONE: 920-562-7221

EMAIL: steve.jakubiec@tdstelecom.com



\*\* DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

#### **CONTACTS**

NATHAN CHECK, HIGHWAY COMMISSIONER PORTAGE COUNTY

> 800 PLOVER ROAD PLOVER, WI 54467

TELEPHONE: 715-345-5230 EMAIL: checkn@co.portage.wi.us

DESIGN CONSULTANT KRIS OLSON, P.E.

> OMNNI ASSOCIATES, INC. ONE SYSTEMS DRIVE APPLETON, WI 54914 TELEPHONE: 920-830-6123 EMAIL: kris.olson@omnni.com

DNR LIAISON MARC HERSHFIELD

DEPARTMENT OF NATURAL RESOURCES

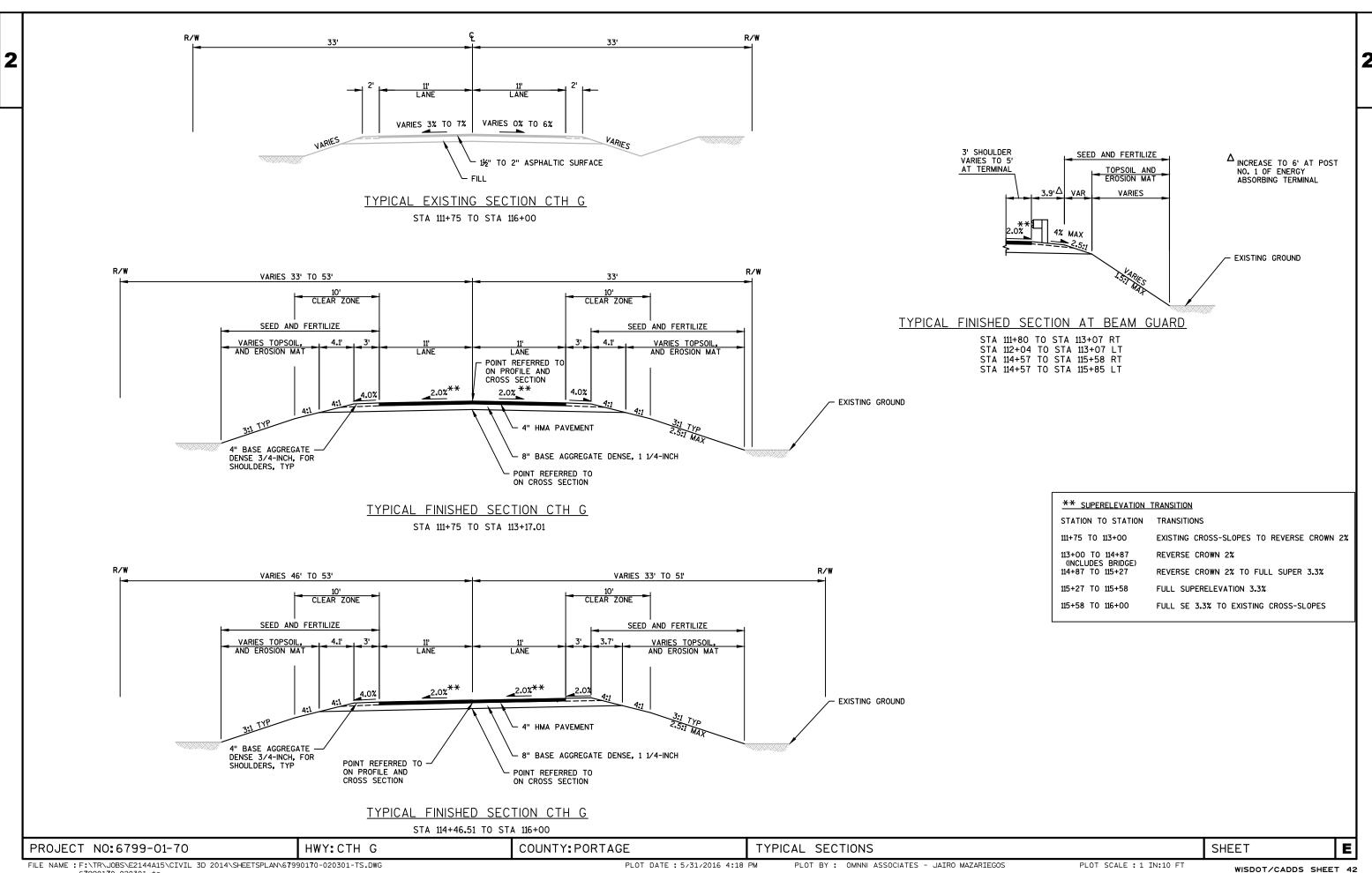
473 GRIFFITH AVENUE

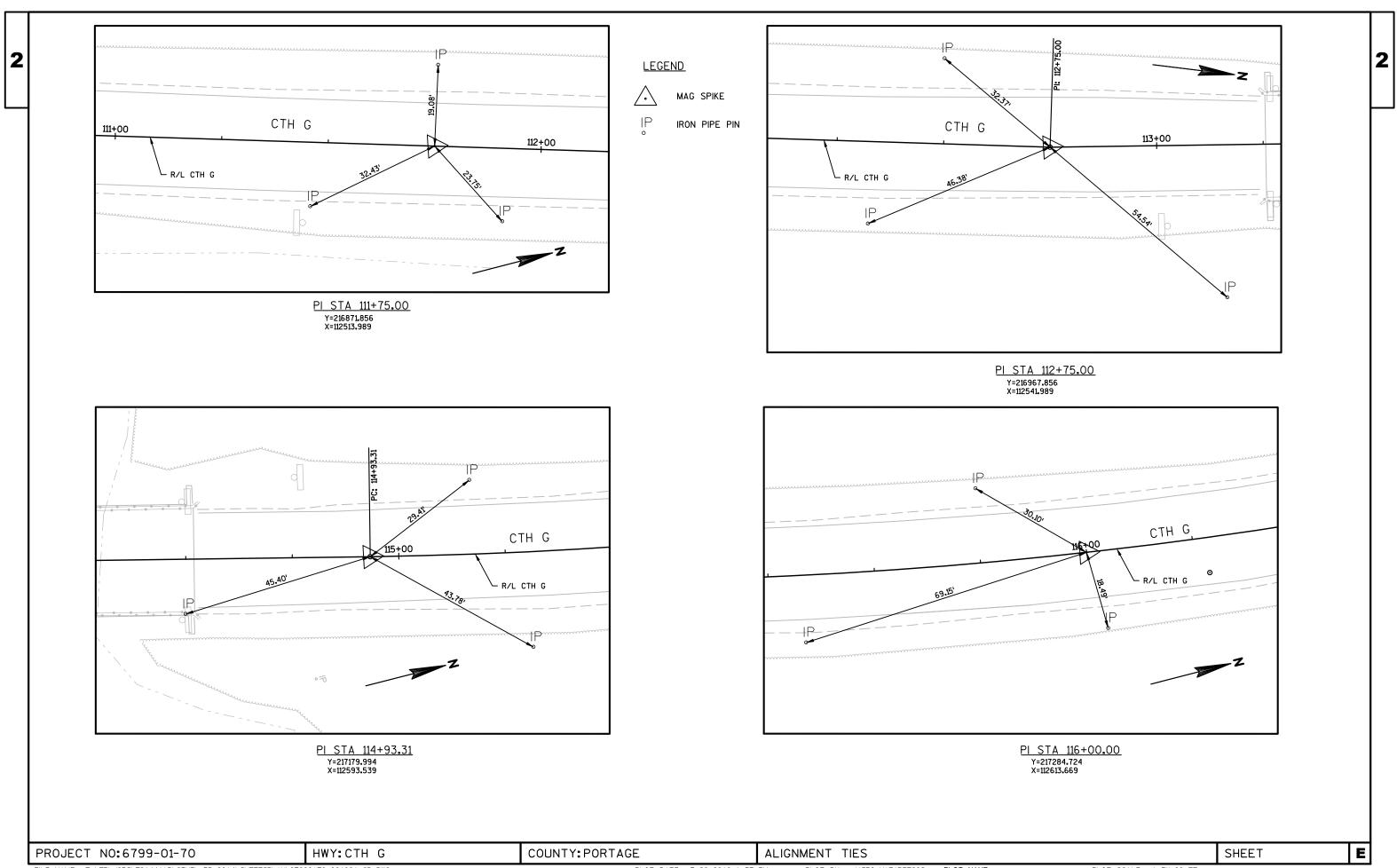
WISCONSIN RAPIDS, WI 54494 TELEPHONE: 715-421-7867

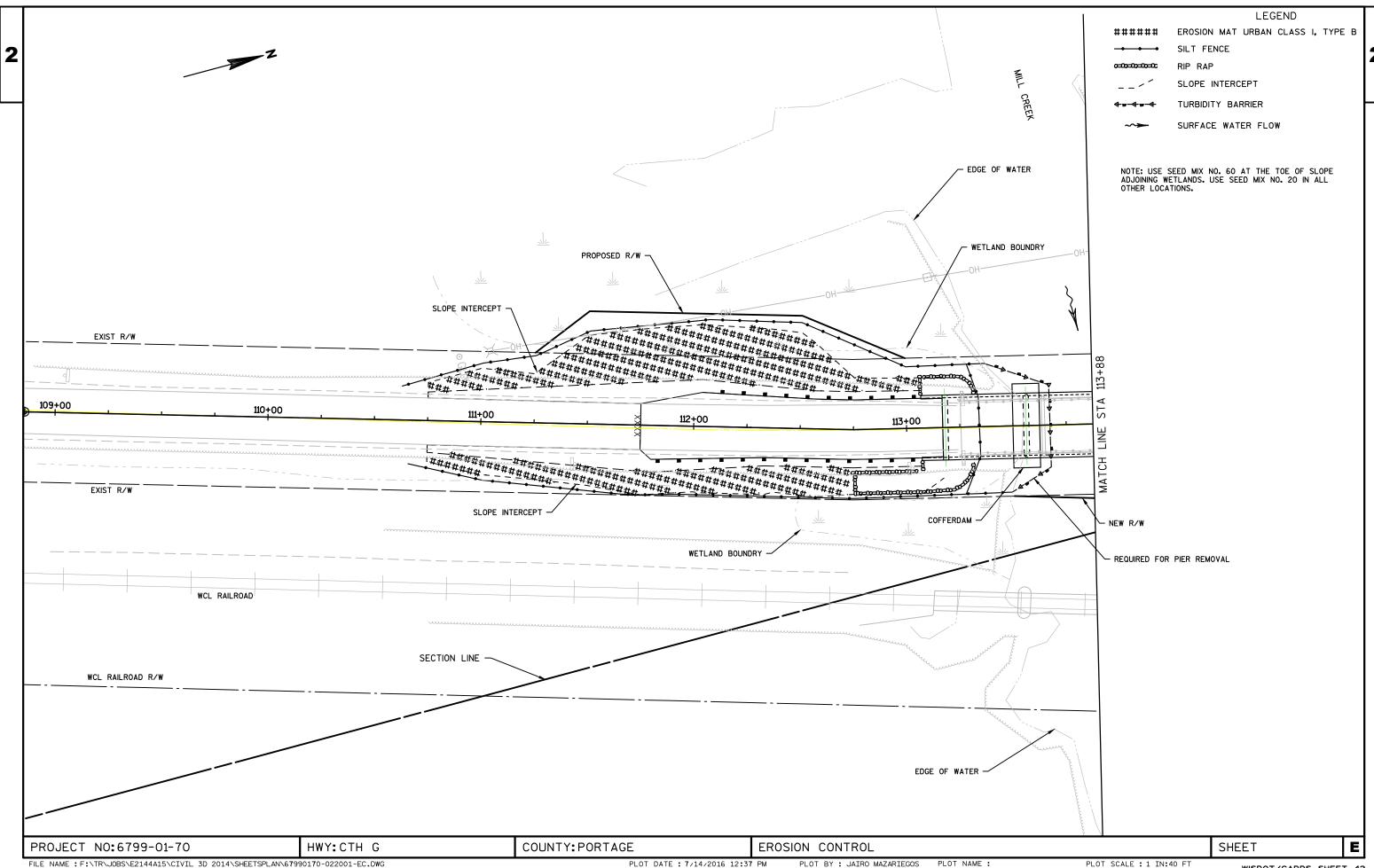
EMAIL: marc.hershfield@wisconsin.gov

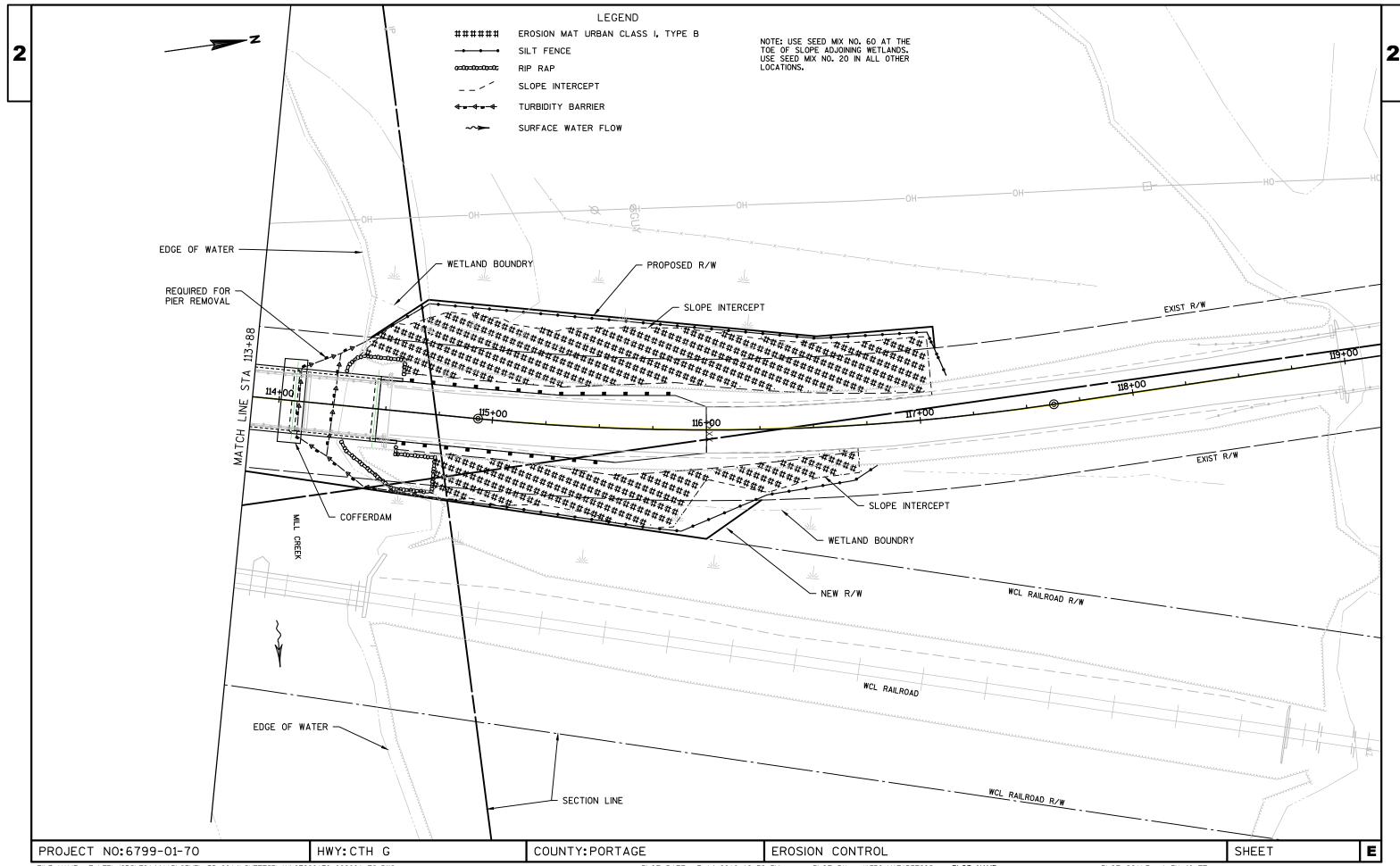
PROJECT NO: 6799-01-70 HWY: CTH G COUNTY: PORTAGE **GENERAL NOTES** SHEET: FILE NAME: F:\TR\JOBS\E2144A15\SHEETS\PLAN\GEN NOTES

ORIGINATOR: OMNNI ASSOCIATES









					6799-01-70
Line	Item	Item Description	Unit	Total	Qty
0010	201.0205	Grubbing	STA	7.000	7.000
0020	203.0600.S	-	LS	1.000	1.000
0030	205.0100	Excavation Common	CY	480.000	480.000
0040	206.1000	Excavation for Structures Bridges (structure) 01. B-49-183	LS	1.000	1.000
0050	206.5000	Cofferdams (structure) 01. B-49-183	LS	1.000	1.000
0060	208.0100	Borrow	CY	380.000	380.000
0070	210.1100	Backfill Structure Type A	CY	140.000	140.000
0080	213.0100	Finishing Roadway (project) 01. 6799-01-70	EACH	1.000	1.000
0090	305.0110	Base Aggregate Dense 3/4-Inch	TON	150.000	150.000
0100	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	850.000	850.000
0110	455.0605	Tack Coat	GAL	75.000	75.000
0110	460.2000	Incentive Density HMA Pavement	DOL	140.000	140.000
0130	460.5223	HMA Pavement 3 LT 58-28 S	TON	125.000	125.000
0140	460.5224	HMA Pavement 4 LT 58-28 S	TON	95.000	95.000
0150	502.0100	Concrete Masonry Bridges	CY	385.000	385.000
0160	502.3200	Protective Surface Treatment	SY	535.000	535.000
0170	505.0400	Bar Steel Reinforcement HS Structures	LB	7,150.000	7,150.000
0170	505.0400	Bar Steel Reinforcement HS Coated Structures	LB	64,190.000	64,190.000
0190	513.4061	Railing Tubular Type M (structure) 01. B-49-183	LF	300.000	300.000
0200	516.0500	Rubberized Membrane Waterproofing	SY	16.000	16.000
0200	550.0020	Pre-Boring Rock or Consolidated Materials	LF	168.000	168.000
	550.0500	Pile Points	EACH		
0220				10.000	10.000
0230	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	575.000	575.000
0240	606.0300	Riprap Heavy	CY	230.000	230.000
0250	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	130.000	130.000
0260	614.2300	MGS Guardrail 3	LF	100.000	100.000
0270	614.2500	MGS Thrie Beam Transition	LF	158.000	158.000
0280	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0290	619.1000	Mobilization	EACH	1.000	1.000
0300	624.0100	Water	MGAL	6.000	6.000
0310	625.0100	Topsoil	SY	2,100.000	2,100.000
0320	628.1504	Silt Fence	LF	1,300.000	1,300.000
0330	628.1520	Silt Fence Maintenance	LF	1,300.000	1,300.000
0340	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0350	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0360	628.2008	Erosion Mat Urban Class I Type B	SY	2,100.000	2,100.000
0370	628.6005	Turbidity Barriers	SY	440.000	440.000
0380	629.0210	Fertilizer Type B	CWT	2.000	2.000

age	2
ayc	_

					6799-01-70
Line	Item	Item Description	Unit	Total	Qty
0390	630.0120	Seeding Mixture No. 20 **P**	LB	75.000	75.000
0400	630.0160	Seeding Mixture No. 60	LB	10.000	10.000
0410	630.0200	Seeding Temporary	LB	40.000	40.000
0420	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000
0430	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0440	638.2602	Removing Signs Type II	EACH	7.000	7.000
0450	638.3000	Removing Small Sign Supports	EACH	7.000	7.000
0460	642.5001	Field Office Type B	EACH	1.000	1.000
0470	643.0100	Traffic Control (project) 01. 6799-01-70	EACH	1.000	1.000
0480	643.0420	Traffic Control Barricades Type III	DAY	1,720.000	1,720.000
0490	643.0705	Traffic Control Warning Lights Type A	DAY	2,752.000	2,752.000
0500	643.0900	Traffic Control Signs	DAY	1,204.000	1,204.000
0510	645.0120	Geotextile Type HR	SY	380.000	380.000
0520	646.0106	Pavement Marking Epoxy 4-Inch	LF	2,520.000	2,520.000
0530	650.4500	Construction Staking Subgrade	LF	502.000	502.000
0540	650.5000	Construction Staking Base	LF	502.000	502.000
0550	650.6500	Construction Staking Structure Layout (structure) 01. B-49-193	LS	1.000	1.000
0560	650.9910	Construction Staking Supplemental Control (project) 01. 6799-01-70	LS	1.000	1.000
0570	650.9920	Construction Staking Slope Stakes	LF	502.000	502.000
0580	690.0150	Sawing Asphalt	LF	44.000	44.000
0590	715.0502	Incentive Strength Concrete Structures	DOL	2,310.000	2,310.000
0600	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	200.000	200.000
0610	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	200.000	200.000

#### **EARTHWORK**

DIVISION	FROM / TO STATION	LOCATION	205.0100 EXCAVATION COMMON (CY) NOTE 2	SALVAGED / UNUSABLE PAVEMENT MATERIAL (CY)	AVAILABLE MATERIAL (CY) NOTE 3	UNEXPANDED FILL (CY)	EXPANDED FILL (CY) NOTE 4	MASS ORDINATE +/- (CY) NOTE 5	208.0100 BORROW (CY)
DIVISION	PROM / TO STATION	LOCATION	NOTE 2	(Cf)	NOTE 3	(CT)	NOTE 4	NOTE 3	(CI)
							Factor		
							1.25		
SOUTH	110+75/113+07	CTH G	240	19	221	211	260	-39	40
NORTH	114+56/117+07	CTH G	240	20	220	451	560	-340	340
		TOTALS	480	39	441	662	820	-379	380

- 2) SALVAGED / UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN EXCAVATION COMMON
- 3) AVAILABLE MATERIAL = EXCAVATION COMMON SALVAGED / UNUSABLE PAVEMENT MATERIAL
- 4) EXPANDED FILL = (UNEXPANDED FILL) \* FILL FACTOR
- 5) THE MASS ORDINATE + OR QUANTITY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

#### **GRUBBING**

		201.0205
		GRUBBING
STATION	LOCATION	STATION
110+75 to 113+50	CTH G	4
114+25 to 116+75	CTH G	3
	TOTALS	7

#### BASE AGGREGATE DENSE AND WATER

		305.0110	305.0120	624.0100
		BASE AGGREGATE	BASE AGGREGATE	
		DENSE 3/4-INCH	DENSE 1 1/4-INCH	WATER
STATION TO STATION	LOCATION	TON	TON	MGAL
110+75 - STRUCTURE	CTH G	80	425	3.0
STRUCTURE - 117+06	CTH G	70	425	3.0
	TOTALS	150	850	6

#### **ASPHALTIC ITEMS**

		455.0605	460.5223	460.5224
			HMA PAVEMENT	HMA PAVEMENT
		TACK	3 LT 58-28 S	4 LT 58-28 S
		COAT		
STATION TO STATION	LOCATION	GAL	TON	TON
111+75 - STRUCTURE	CTH G	35	60	45
STRUCTURE - 116+00	CTH G	40	65	50
	TOTALS	75	125	95

#### STEEL PLATE BEAM GUARD

ROU	NDED TOTALS	100	158	4
	TOTALS	100	157.6	4
STRUCTURE - 115+85, LT	CTH G	37.5	39.4	1
STRUCTURE - 115+58, RT	CTH G	12.5	39.4	1
112+04 - STRUCTURE, LT	CTH G	12.5	39.4	1
111+80 - STRUCTURE, RT	CTH G	37.5	39.4	1
STATION TO STATION	LOCATION	LF	LF	EACH
		GUARDRAIL 3	TRANSITION	EAT
		MGS	BEAM	TERMINAL
			MGS THRIE	MGS GUARDRAI
		614.2300	614.2500	614.2610

PROJECT NO: 6799-01-70 HWY: CTH G COUNTY: PORTAGE MISCELLANEOUS QUANTITIES SHEET E

## 3

#### **LANDSCAPING**

			630.0120		630.0200	
		625.0100	SEEDING	630.0160	SEEDING	629.0210
		TOPSOIL	NO 20	SEEDING	TEMPORARY	FERTILIZER
				NO 60		TYPE B
STATION TO STATION	LOCATION	SY	LB	LB	LB	CWT
110+75 - STRUCTURE, RT	CTH G	210	10	-	5	0.3
110+75 - STRUCTURE, LT	CTH G	435	16	-	8	0.4
STRUCTURE - 116+70, RT	CTH G	365	13	-	6	0.4
STRUCTURE - 117+06, LT	CTH G	725	24	_	12	0.6
UNDISTRIBUTED	CTH G	365	12	10	9	0.3
	TOTALS	2,100	75	10	40	2.0

#### TURBIDITY BARRIER

	CTATION	LOCATION	628.6005
ŀ	STATION	LOCATION	SY
L	113+50	CTH G	150
	114+25	CTH G	290
	•	TOTAL	440

#### **EROSION CONTROL ITEMS**

		628.1504	628.1520	628.1905	628.1910	628.2008
					MOBILIZATIONS	EROSION MAT
			SILT FENCE	MOBILIZATIONS	EMERGENCY	URBAN CLASS I
		SILT FENCE	MAINTENANCE	EROSION CONTROL	EROSION CONTROL	TYPE B
STATION TO STATION	LOCATION	LF	LF	EACH	EACH	SY
110+75 - STRUCTURE, RT	HILLCREST RD	285	285			210
110+75 - STRUCTURE, LT	HILLCREST RD	280	280			435
STRUCTURE - 116+70, RT	HILLCREST RD	215	215			365
STRUCTURE - 117+06, LT	HILLCREST RD	290	290			725
UNDISTRIBUTED	HILLCREST RD	230	230	4	2	365
	TOTALS	1,300	1,300	4	2	2,100

#### <u>RIPRAP</u>

		606.0300	645.0120
		RIPRAP	GEOTEXTILE FABRIC
		HEAVY	TYPE HR
STATION	LOCATION	CY	SY
112+75 - 113+07, RT	CTH G	30	65
114+56 - 114+75, RT	CTH G	25	50
	TOTAL	55	115

#### SIGNS REFLECTIVE TYPE II & POSTS WOOD

				634.0614	637.2230
			SIGN SIZE	POSTS WOOD	SIGNS TYPE II
			HORIZ X VERT	4x6-INCH X 14-FT	RELFECTIVE F
STATION	LOCATION	CODE	IN X IN	EACH	SF
113+07, RT	CTH G	W5-52R	12 X 36	1	3
113+07, LT	CTH G	W5-52L	12 X 36	1	3
114+56, RT	CTH G	W5-52L	12 X 36	1	3
114+56, LT	CTH G	W5-52R	12 X 36	1	3
			TOTALS	4	12

#### REMOVING SIGNS TYPE II AND REMOVING SMALL SIGN SUPPORTS

			638.2602	638.3000
			REMOVING	REMOVING
			SIGNS	SMALL SIGN
			TYPE II	SUPPORTS
STATION	LOCATION	DESCRIPTION	EACH	EACH
111+45, RT	CTH G	NARROW BRIDGE	1	1
113+02, RT	CTH G	WEIGHT LIMIT 35 TONS	1	1
113+27, LT	CTH G	OBJECT MARKER	1	1
113+27, RT	CTH G	OBJECT MARKER	1	1
114+50, LT	CTH G	OBJECT MARKER	1	1
114+50, RT	CTH G	OBJECT MARKER	1	1
114+76, LT	CTH G	WEIGHT LIMIT 35 TONS	1	1
		TOTALS	7	7

PROJECT NO: 6799-01-70 HWY: CTH G COUNTY: PORTAGE MISCELLANEOUS QUANTITIES SHEET E 3

#### PAVEMENT MARKING EPOXY

		646.0106	
		4-INCH	4-INCH
		YELLOW	WHITE
STATION	LOCATION	LF	LF
110+75 - 117+06	CTH G	1,260	1,260
	TOTAL	2,	520

#### **CONSTRUCTION STAKING**

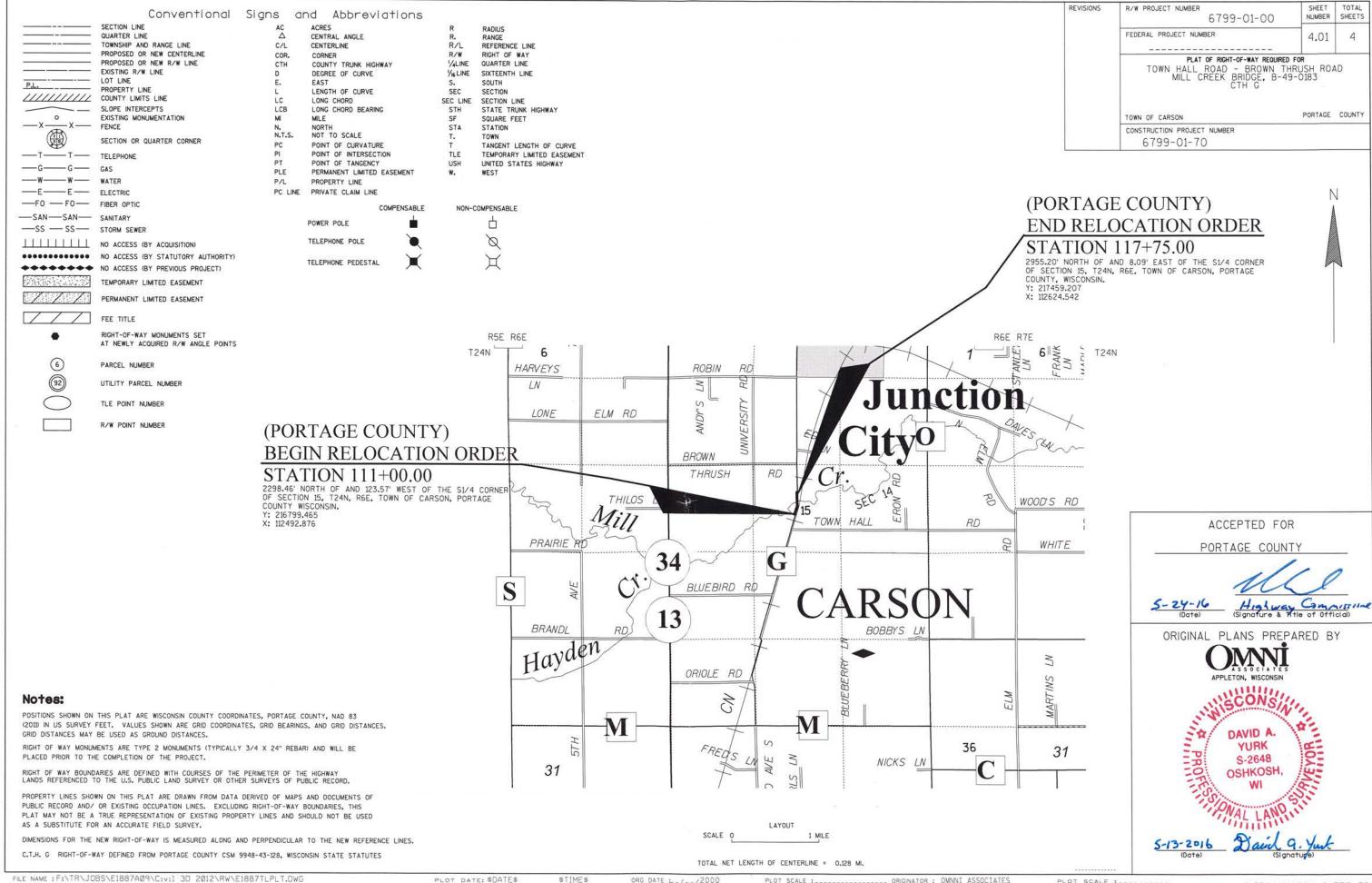
		650.4500	650.5000	CATEGORY 0020 650.6500	650.9910	650.9920
		03011300	030.3000	STRUCTURE	SUPPLEMENTAL	SLOPE
		SUBGRADE	BASE	LAYOUT	CONTROL	STAKES
STATION TO STATION	LOCATION	LF	LF	LS	LS	LF
110+75 - STRUCTURE	CTH G	242	242			242
STRUCTURE B-49-183	CTH G			1		
STRUCTURE - 117+06	CTH G	260	260			260
	TOTALS	502	502	1	1	502

#### TRAFFIC CONTROL ROAD CLOSURE

		643.	0420	643.	0705	643.	0900
	APROX.	BARRIO	CADES	WAR	NING	SI	GNS
	SERVICE	TYPE	III	LIG	HTS		
	PERIOD			TYP	E A		
LOCATION		EA	CH	EA	CH	EΑ	СH
		NO.	DAYS	NO.	DAYS	NO.	DAYS
NORTH OF PROJECT	86	10	860	16	1376	7	602
SOUTH OF PROJECT	86	10	860	16	1376	7	602
			1,720		2,752		1,204

#### SAWING ASPHALT

		690.0150
		SAWING
		ASPHALT
STATION	LOCATION	LF
111+75	CTH G	22
116+00	CTH G	22
	TOTAL	44



FILE NAME : F:\TR\JOBS\E1887AØ9\C1v11 3D 2012\RW\E1887TLPLT.DWG

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ORG DATE :\_/\_/2000

PLOT SCALE : ..... ORIGINATOR : OMNNI ASSOCIATES

PLOT SCALE :\_\_\_\_\_

# /

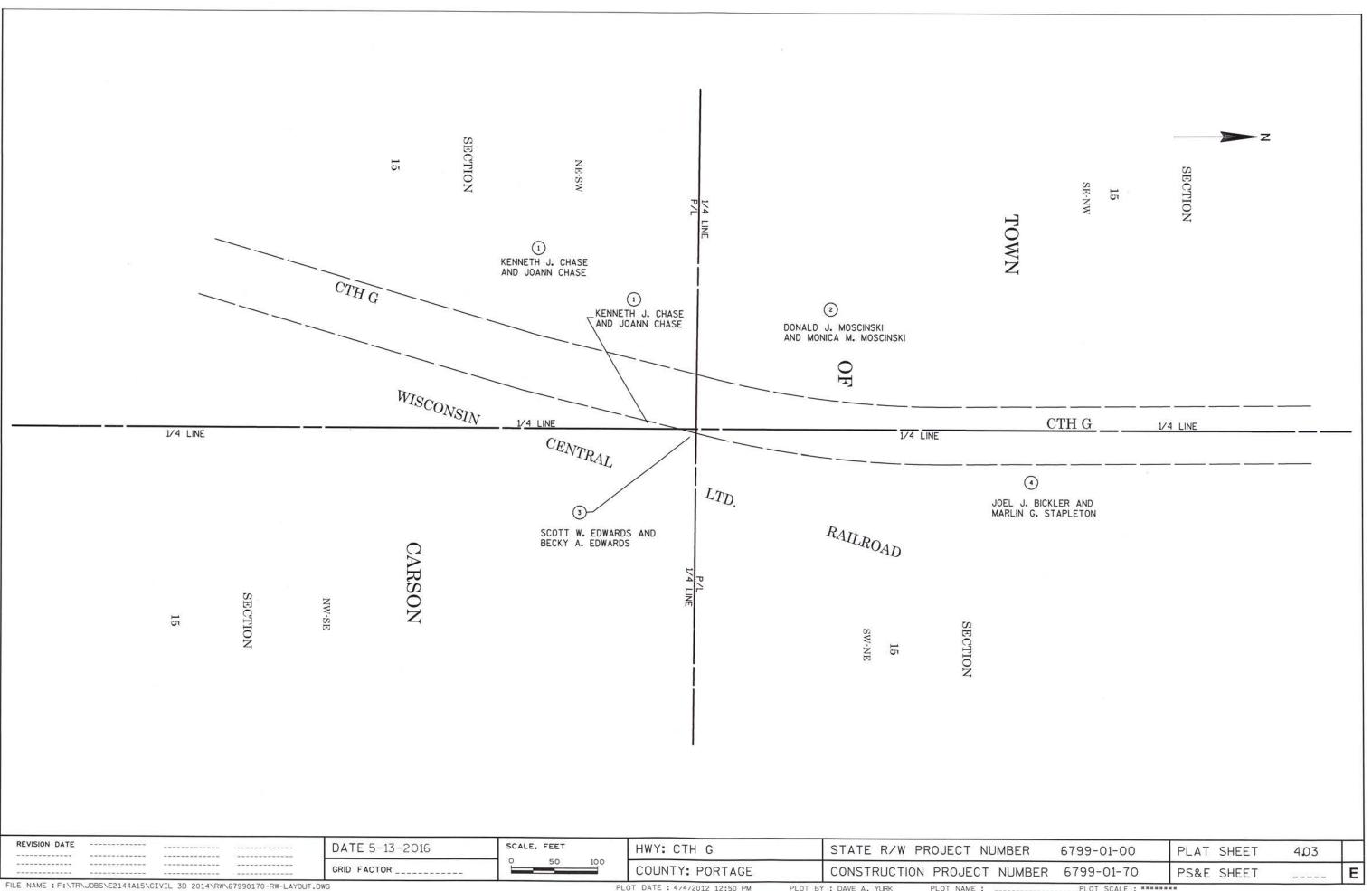
# **SCHEDULE OF LANDS & INTERESTS REQUIRED**

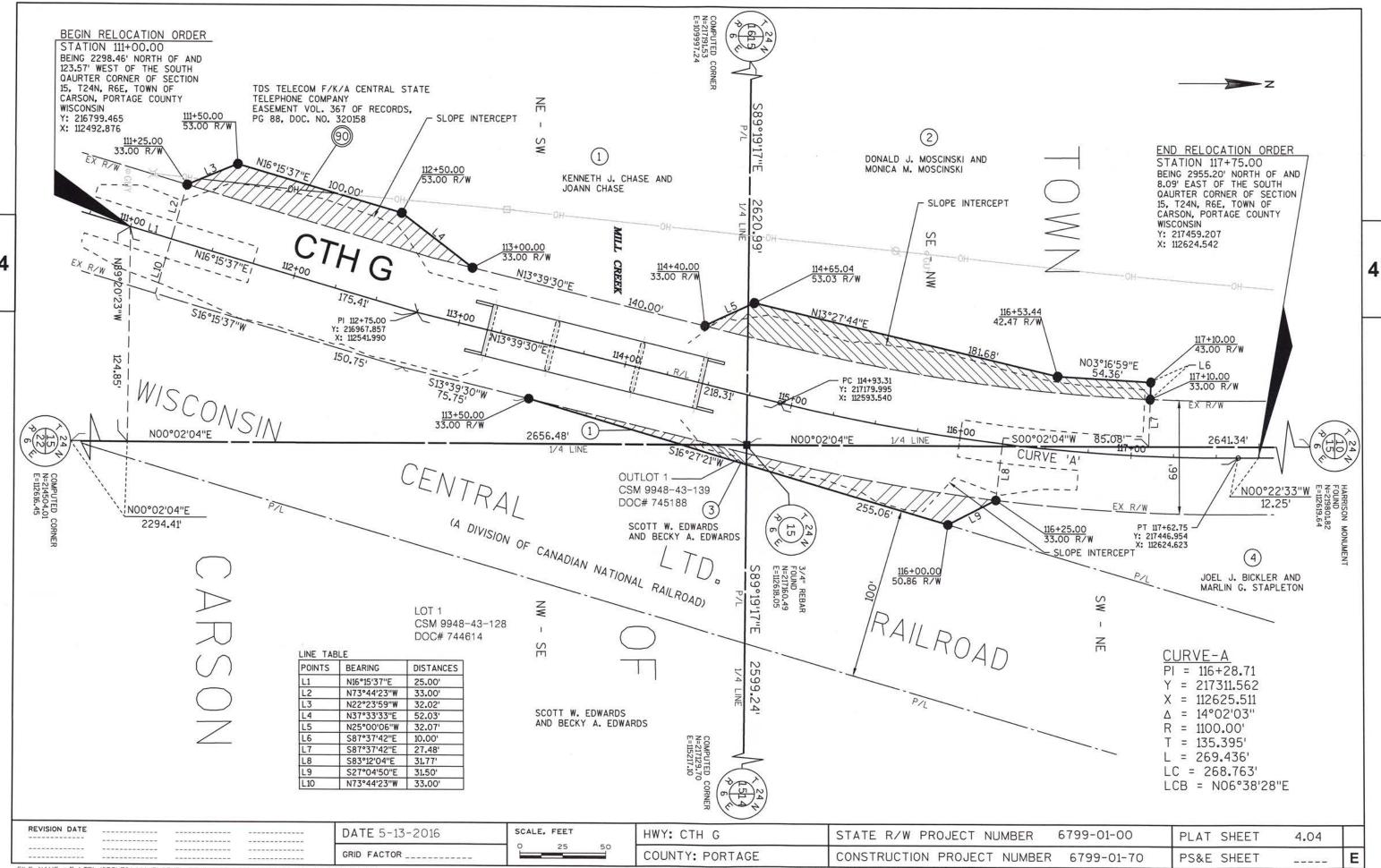
OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE COUNTY OF PORTAGE.

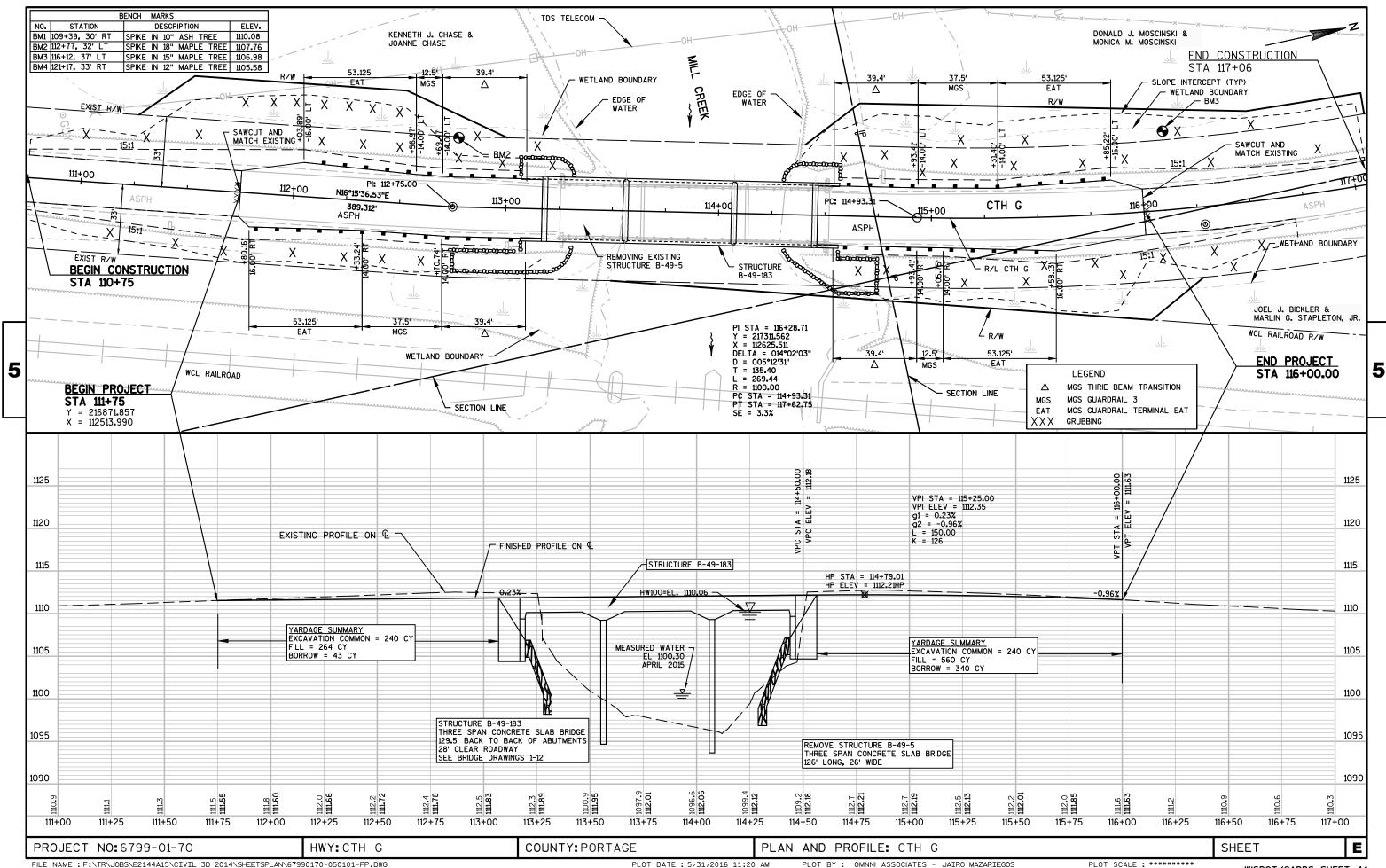
PARCEL	PLAT SHEET			ARE	A ACRES REQUIR	RED
NUMBER	NUMBER	OWNER	INT. REQD.	NEW	EXISTING	TOTAL
1	4.04	KENNETH J. CHASE & JO ANN CHASE	FEE	0.07 AC	0.53 AC	0.60 AC
2	4.04	DONALD J. MOSCINSKI & MONICA M. MOSCINSKI	FEE	0.08 AC	0.22 AC	0.30 AC
3	4.04	SCOTT W. EDWARDS & BECKY A. EDWARDS	FEE	0.01 AC		0.01 AC
4	4.04	JOEL J. BRICKLER & MARLIN G. STAPLETON	FEE	0.04 AC	0.07 AC	0.11 AC

	UTILITY INTEREST RE	QUIRED
UTILITY NO.	OWNER	INTEREST REQUIRED
90	TDS TELECOM	RELEASE OF RIGHTS

REVISION DATE :	DATE: 5-13-2016	HWY: CTH G	STATE R/W PROJECT NUMBER 6799-07-00	PLAT SHEET NO: 4.02	
		COUNTY: PORTAGE	CONSTRUCTION PROJECT NUMBER: 6799-01-70	PS&E SHEET NO:	Е







# Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
14B42-03A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-07	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-16A	PAVEMENT MARKING (MAINLINE)

# 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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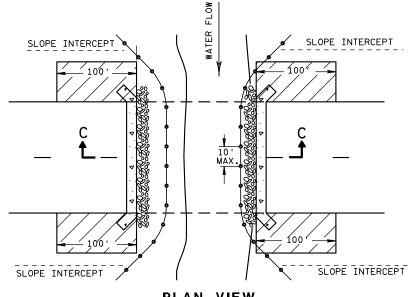
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#### **GENERAL NOTES**

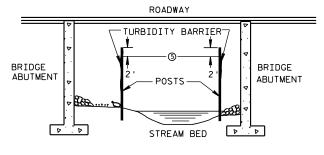
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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)

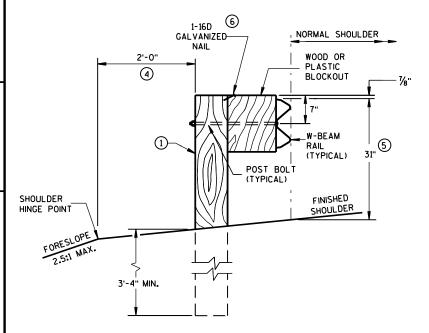
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

 D. 12 A 3-10

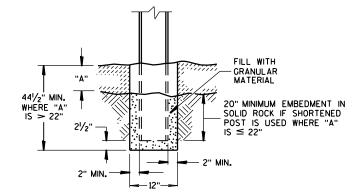
#### **GENERAL NOTES**

- (1) WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- 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 21/2 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).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 273/4" 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** 

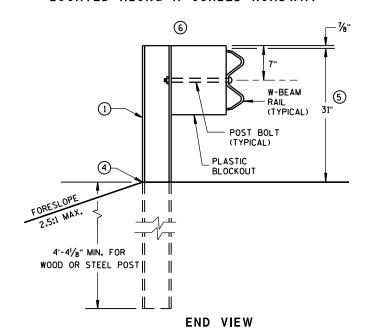
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



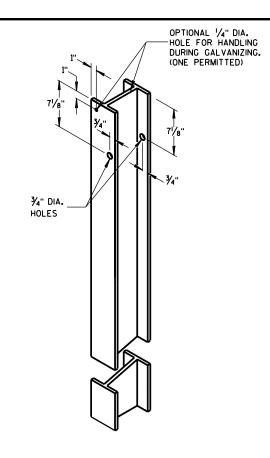
SETTING STEEL OR WOOD POST IN ROCK  $^{\scriptsize{\textcircled{3}}}$ 



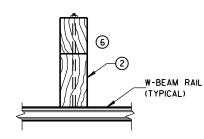
END VIEW
LOCATED ALONG A CURBED ROADWAY



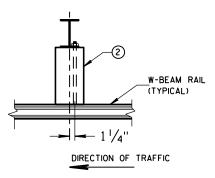
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



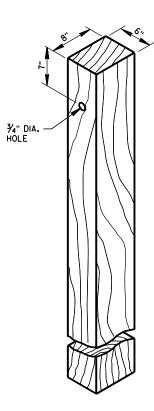
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



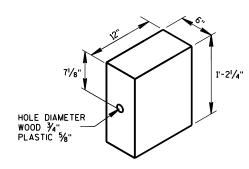
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL  $^{\scriptsize \textcircled{1}}$ 



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

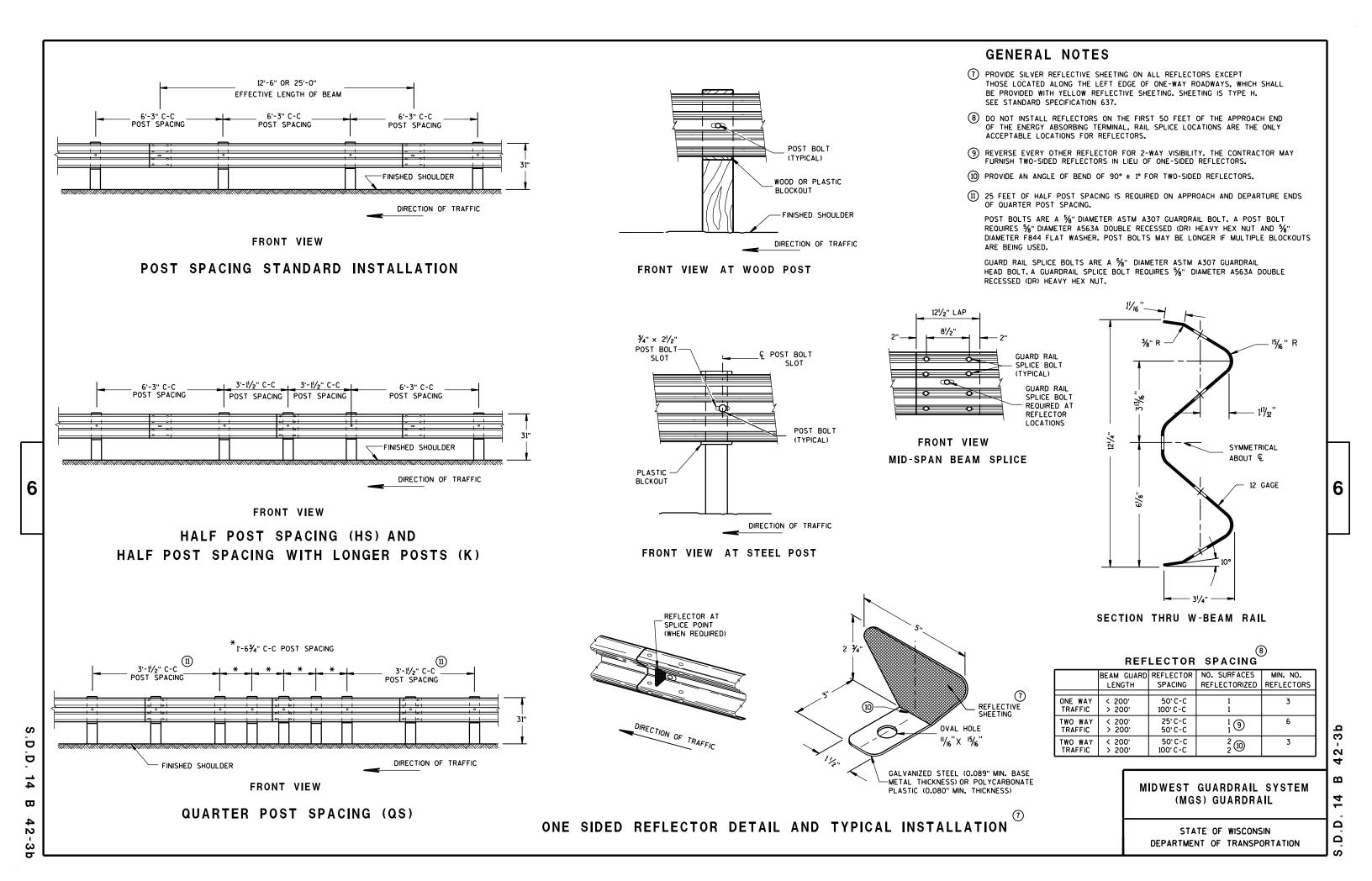
S.D.D. 14 B 4

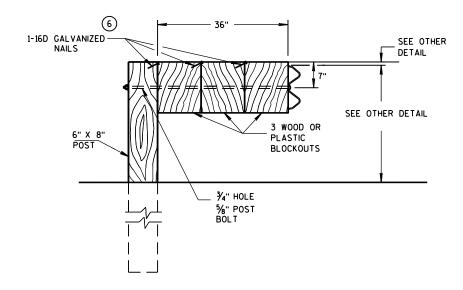
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.D.D. 14 B

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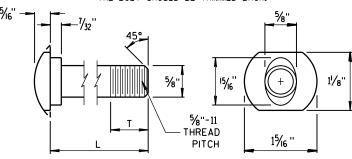


#### DETAIL FOR 36" BLOCKOUT DEPTH

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.

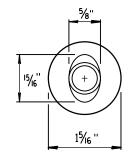
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF  $\frac{1}{16}$ ". 2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

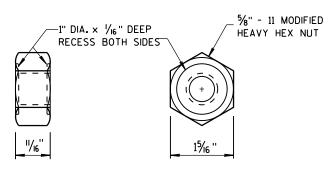


#### POST BOLT TABLE

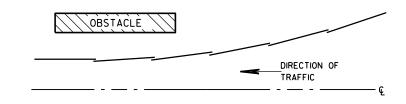
11/8"
437
13/4"
4"
41/16"
4"
41/16"
4"



ALTERNATE BOLT HEAD

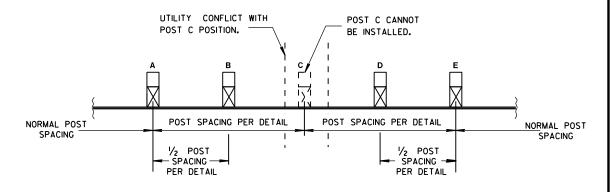


POST BOLT AND RECESS NUT



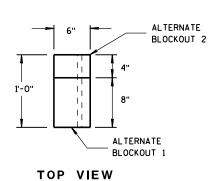
#### **PLAN VIEW**

#### **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

APPROVED

June 2014 /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

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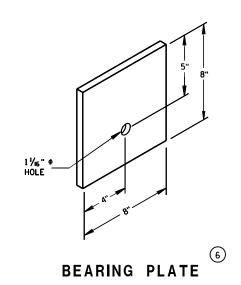
# SECTION A-A SECTION B-B

9 H

PLAN VIEW

#### BILL OF MATERIALS

PART NO.	DESCRIPTION  MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
1	WOOD BREAKAWAY POST
2	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2
3	WOOD CRT
4	WOOD BLOCKOUT
(5)	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
12	END SECTION EAT
(3)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



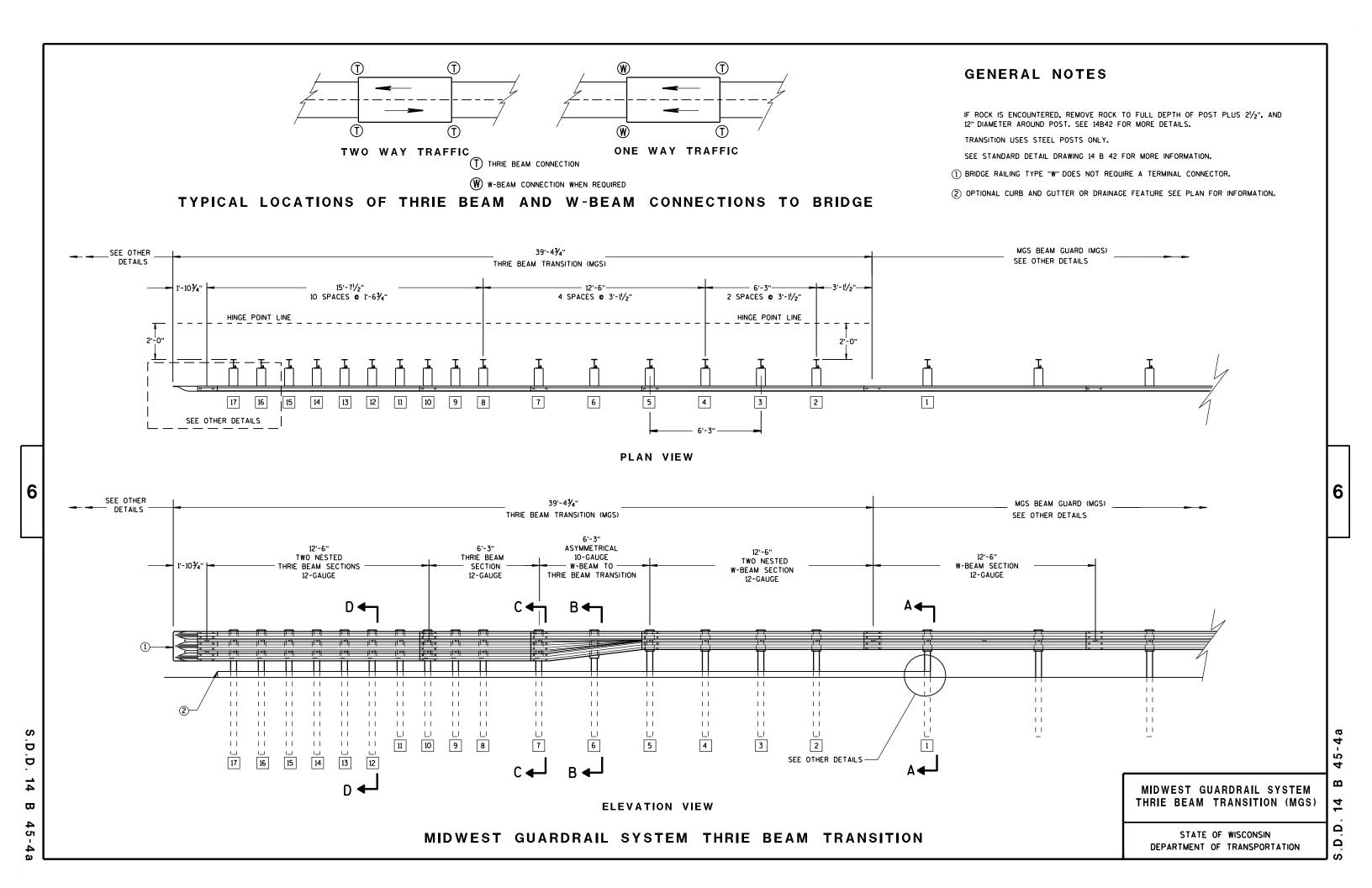
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

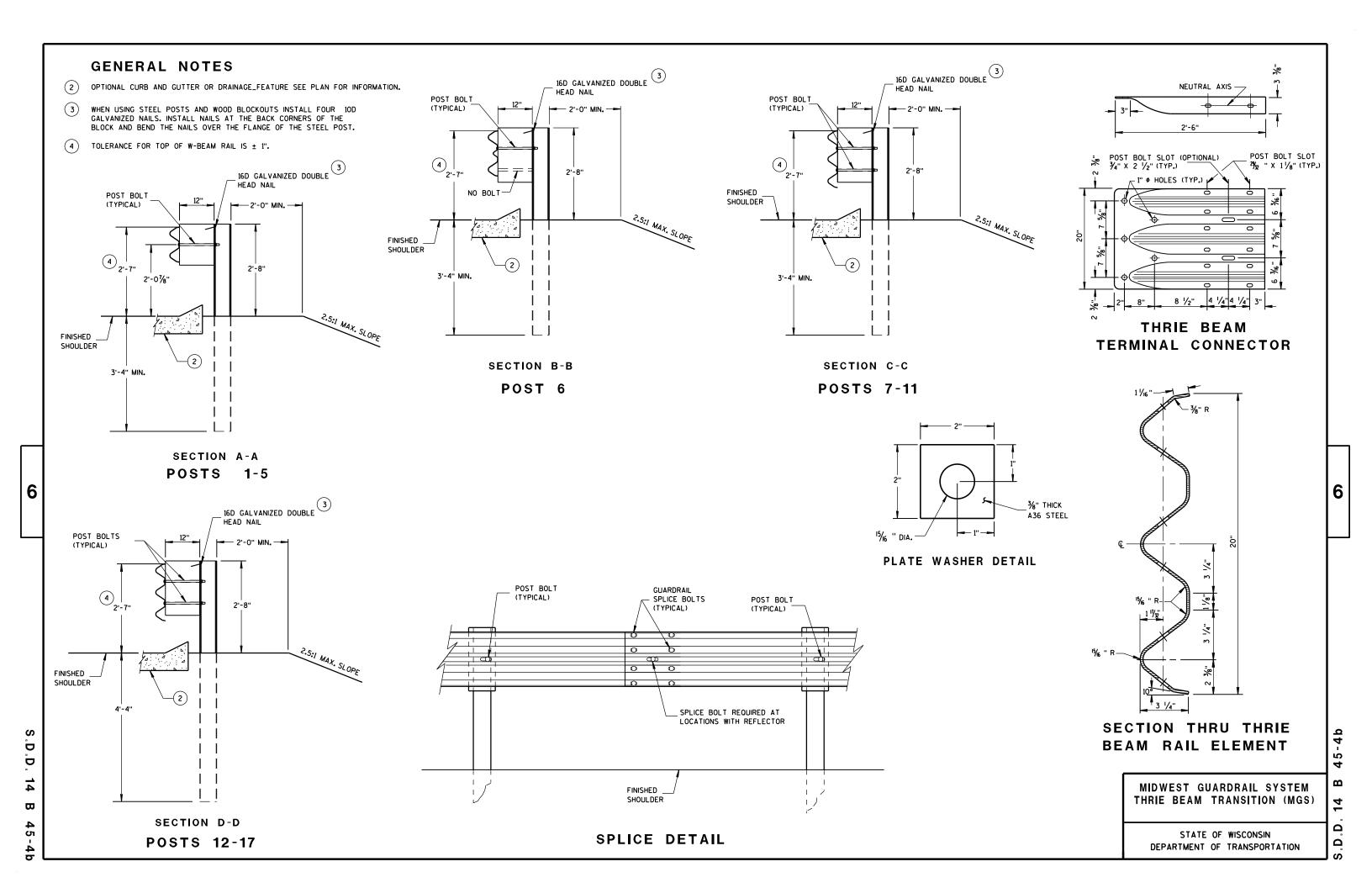
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

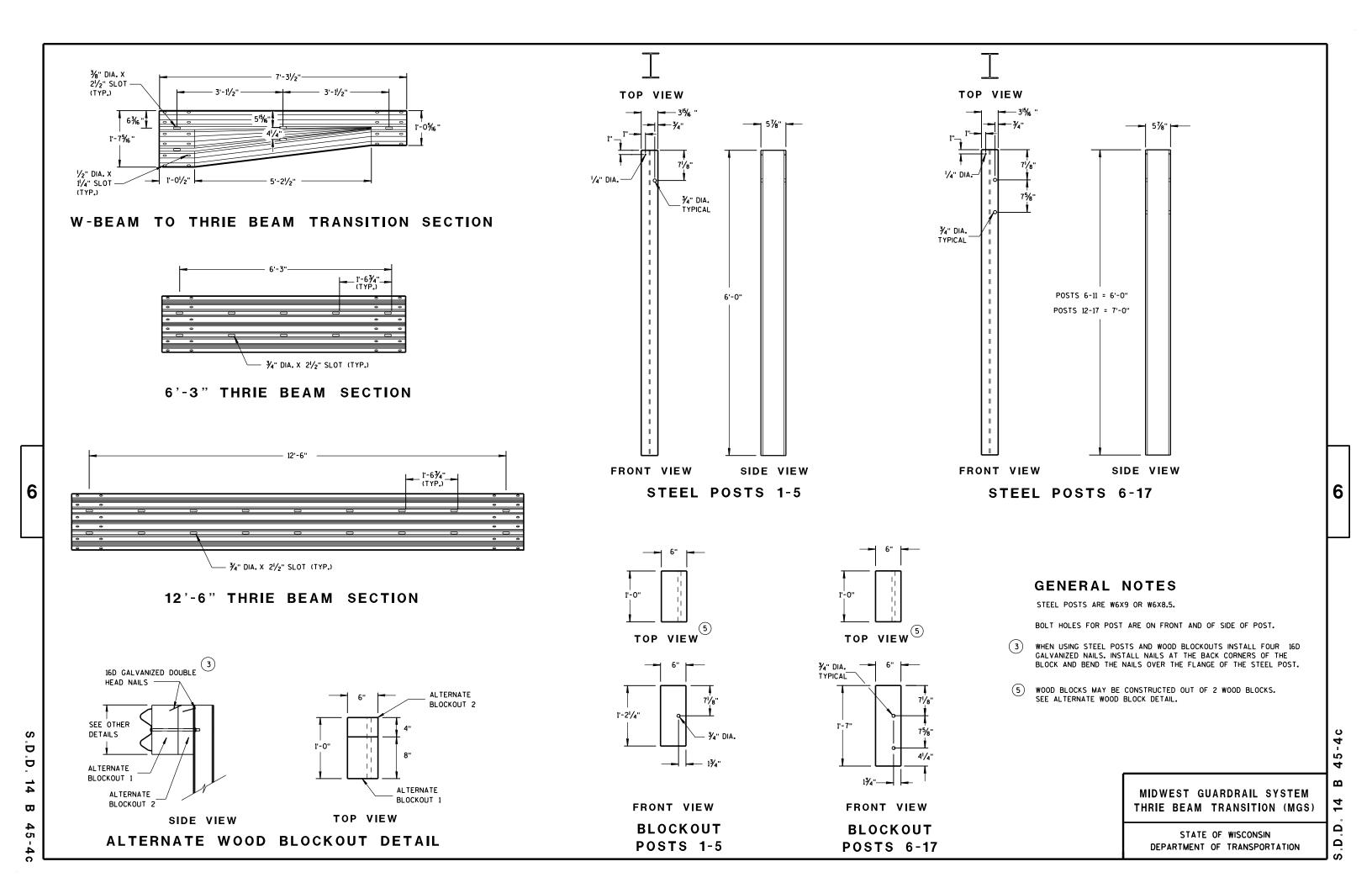
44-2b

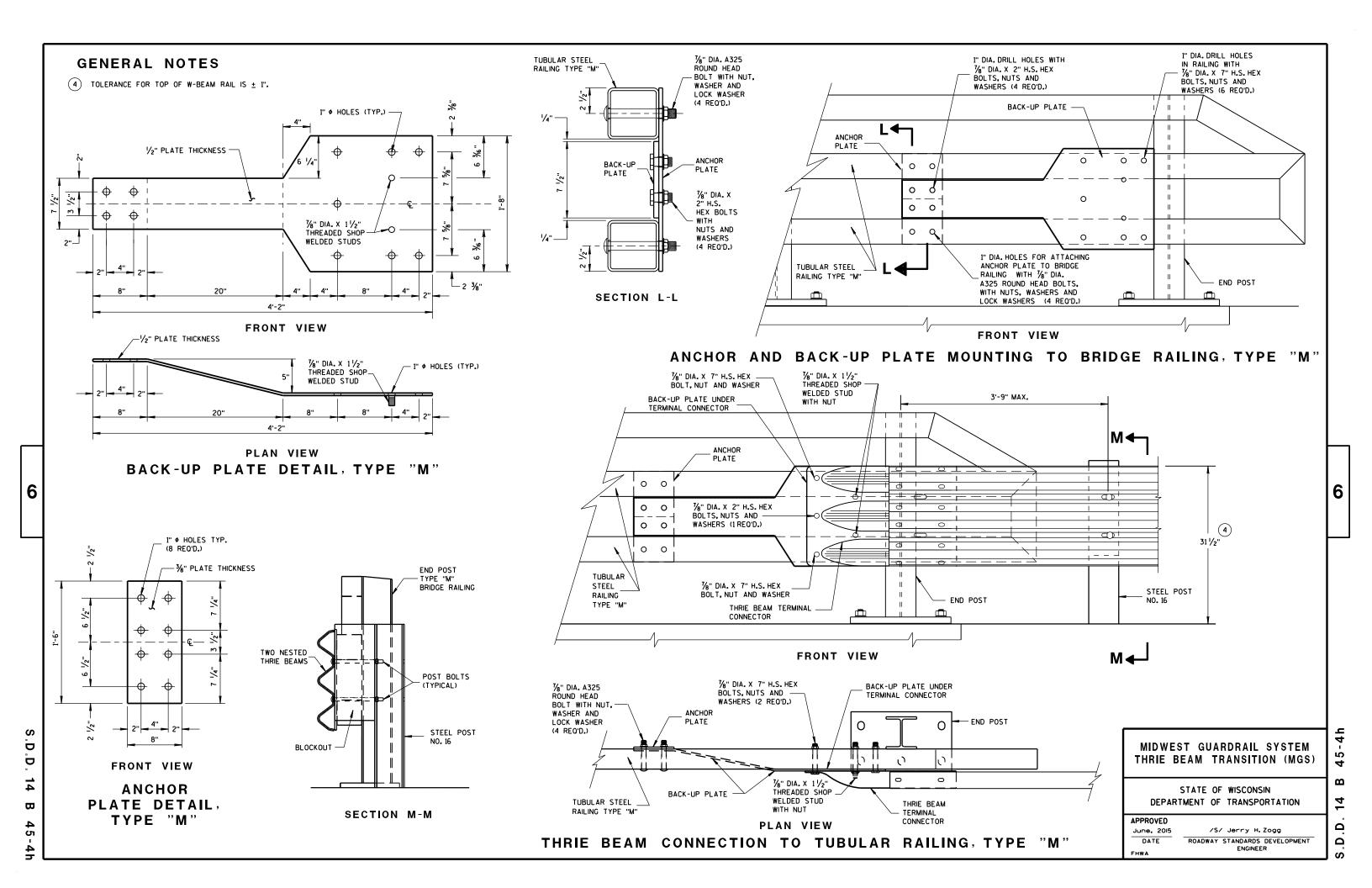
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# ROAD CLOSURE BARRICADE DETAIL

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

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE 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, 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". (30" X 15" 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
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- 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.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

#### BARRICADES AND SIGNS FOR MAINLINE CLOSURES

2

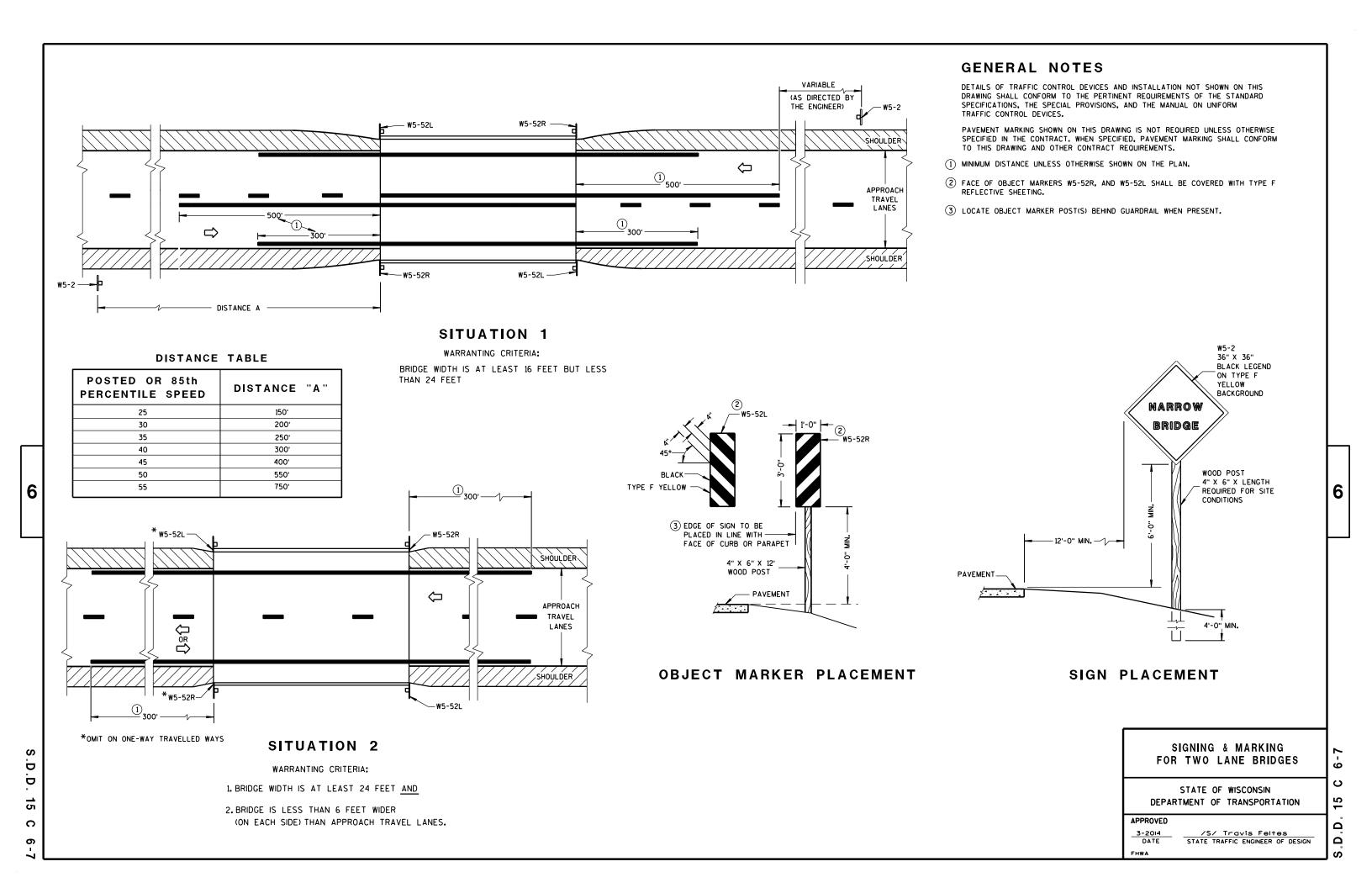
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

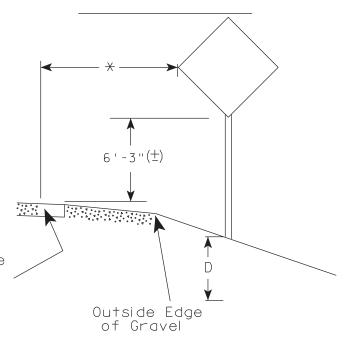




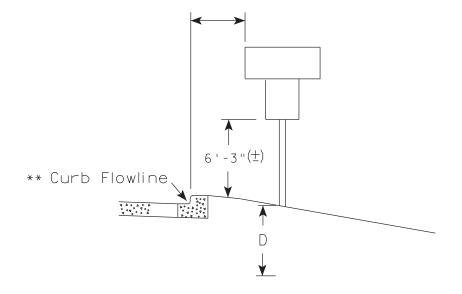
# URBAN ARFA

2' Min - 4' Max (See Note 6) 7'-3"(士) \*\* Curb Flowline White Edgeline Location

RURAL AREA (See Note 2)



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



5′-3′′(生) White Edgeline 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.

\* 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.

GENERAL NOTES

- 1. Signs wider than 4 feet, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is  $7'-3''(\pm)$  or  $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is  $5' - 3'' (\pm)$ .
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3'' ( $\pm$ ). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' ( $\pm$ ).

#### 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 \_11/12/14

PLATE NO. \_\_A4-3.19

PROJECT NO: 6799-01-70 FILE NAME: C:\CAEFiles\Projects\tr\_stdplate\A43.DGN HWY: CTH G

**COUNTY: PORTAGE** 

**SIGNS** 

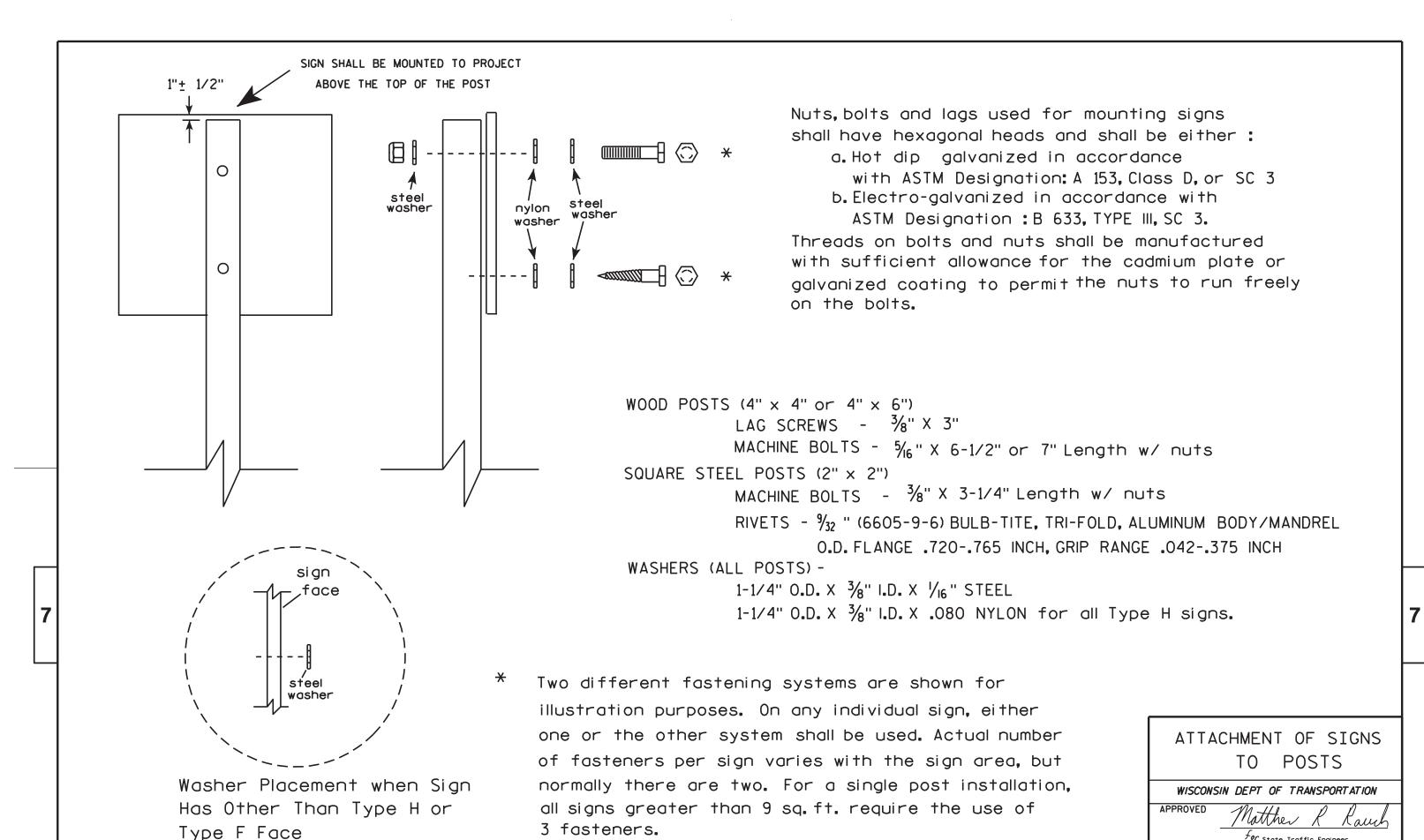
PLOT BY: mscsja

PLOT DATE: 12-NOV-2014 14:03

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

SHEET NO:



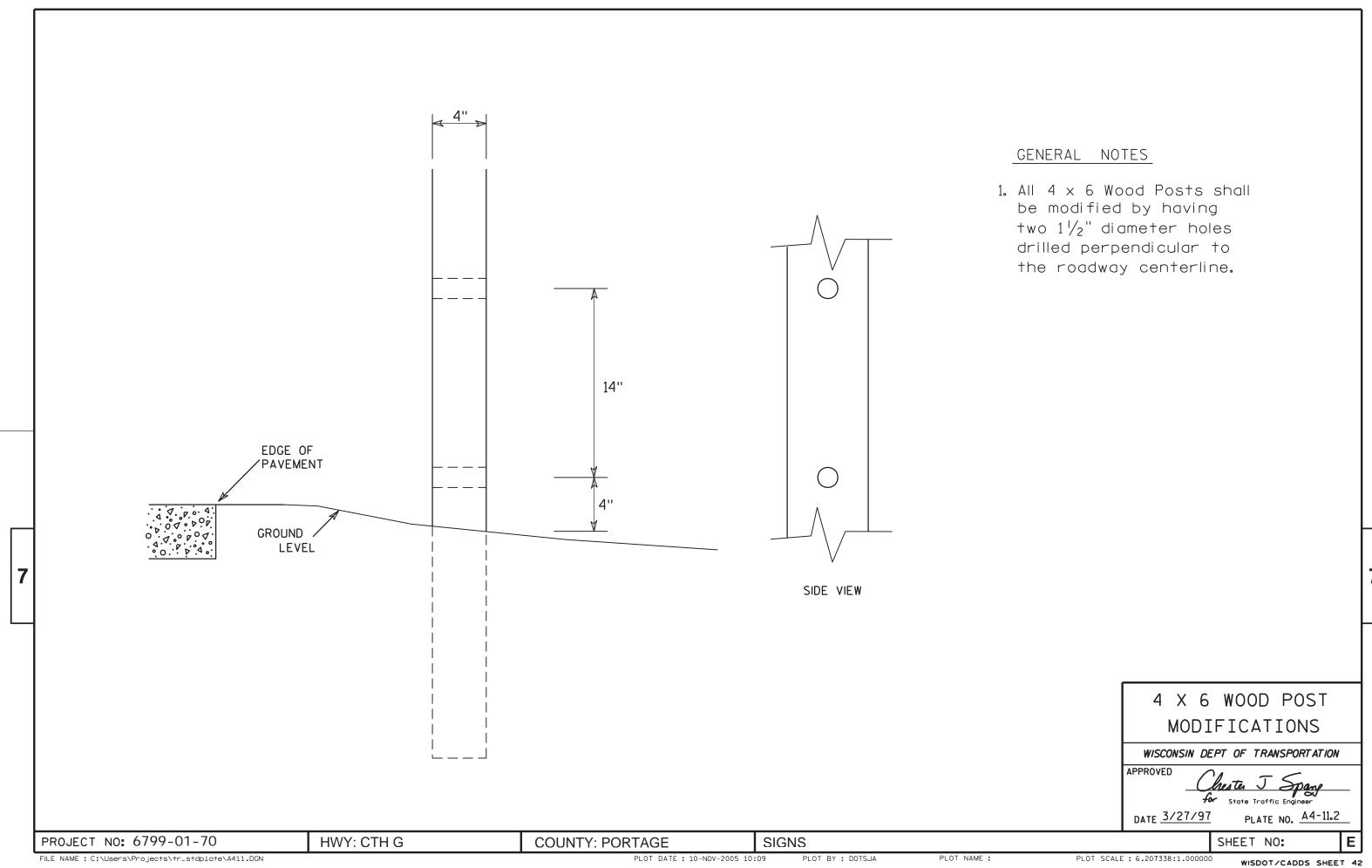
HWY: CTH G PROJECT NO: 6799-01-70 **COUNTY: PORTAGE SIGNS** SHEET NO: FILE NAME : C:\Users\PROJECTS\tr\_stdplate\A48.DGN PLOT DATE: 23-MAR-2010 10:15

For State Traffic Engineer

PLATE NO. A4-8.7

WISDOT/CADDS SHEET 42

DATE 3/23/10



## NOTES

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

C —	<u> </u>
	G
	F G
A —	
R11-2B	

SIZE A Areo sq. ft. В С D G н | I J K 0 0 S 30 | 1 3/8 1/2 5/8 4 | 19 3/4 | 9 3/4 | 9 3/8 10.0 48 8 2M 5/8 1/2 48 1 3/8 8 5 19 3/4 9 3/4 9 1/8 10.0 30 5/8 3 1 3/8 1/2 19 3/4 9 3/4 9 1/8 48 30 8 5 10.0 5/8 19 3/4 9 3/4 9 7/8 4 1 3/8 1/2 48 30 5 10.0 5 1 3/8 1/2 5/8 19 34 9 34 9 78 48 30 10.0

STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

Matthew R Rauch

DATE 4/1/11 PLATE NO. R11-2B.2

SHEET NO:

HWY: CTH G

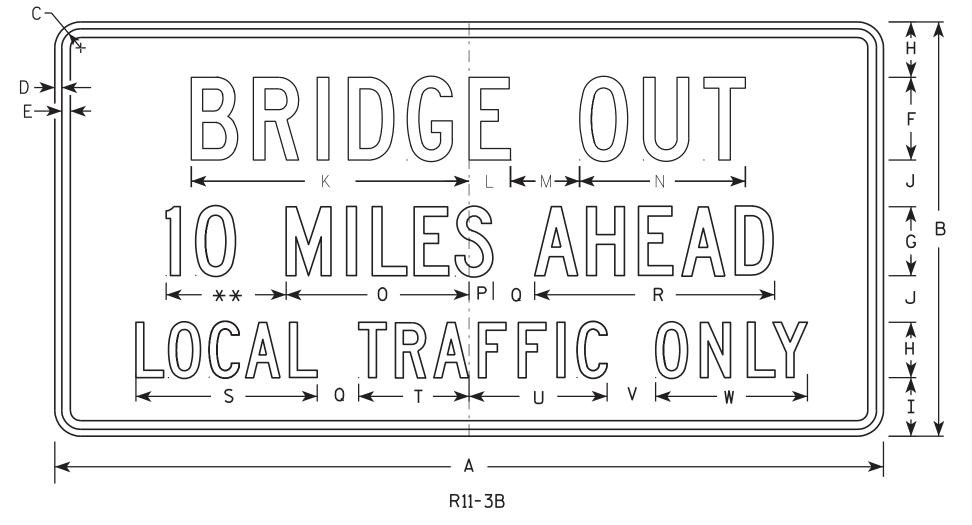
**COUNTY: PORTAGE** 

PLOT DATE: 01-APR-2011 14:23

SIGNS PLOT BY : mscj9h

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R112B.DGN

PROJECT NO: 6799-01-70



## NOTES

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

\*\* See Note 5

PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	т	J	К	L	М	l N	0	Р	0	R	S	т	U	l v	w	×	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4				4.5
25	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8		5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
3																											
4																											
5																											
PRO	JECT	NO:	6799	-01-7	0			HWY	: CTH	G		COUNTY: PORTAGE SIGNS															

STANDARD SIGN R11-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Raug for State Traffic Engineer PLATE NO. R11-3B.2

DATE 4/1/11

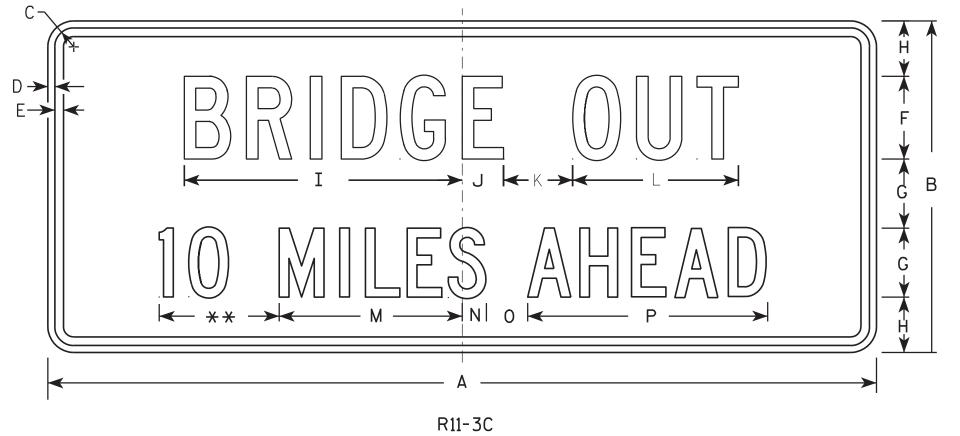
SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R113B.DGN

PLOT DATE: 01-APR-2011 14:17

PLOT SCALE: 6.952219:1.000000

WISDOT/CADDS SHEET 42



## NOTES

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

\*\* See Note 5

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4											3.75
25	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8											10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8											10.0
3																											
4																											
5																											
PRO	JECT	NO:	6799-	01-7	0			HWY	: CTH	G		COUNTY: PORTAGE SIGNS															

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

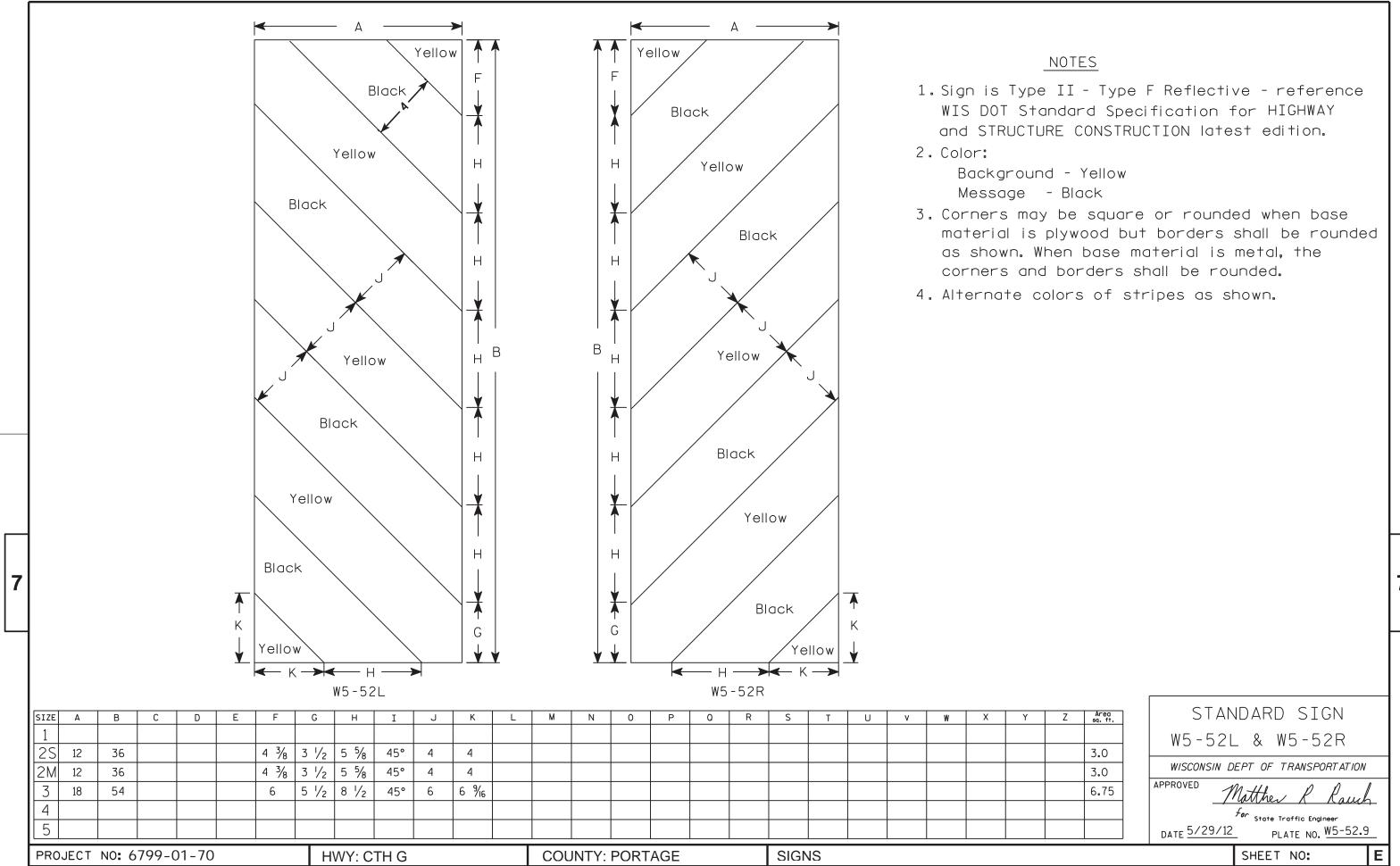
APPROVED

Matther R Rawh

DATE 4/1/11

PLATE NO. R11-3C.2

COUNTY: PORTAGE SIGNS PLOT DATE: 01-APR-2011 14:15



FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W552.DGN

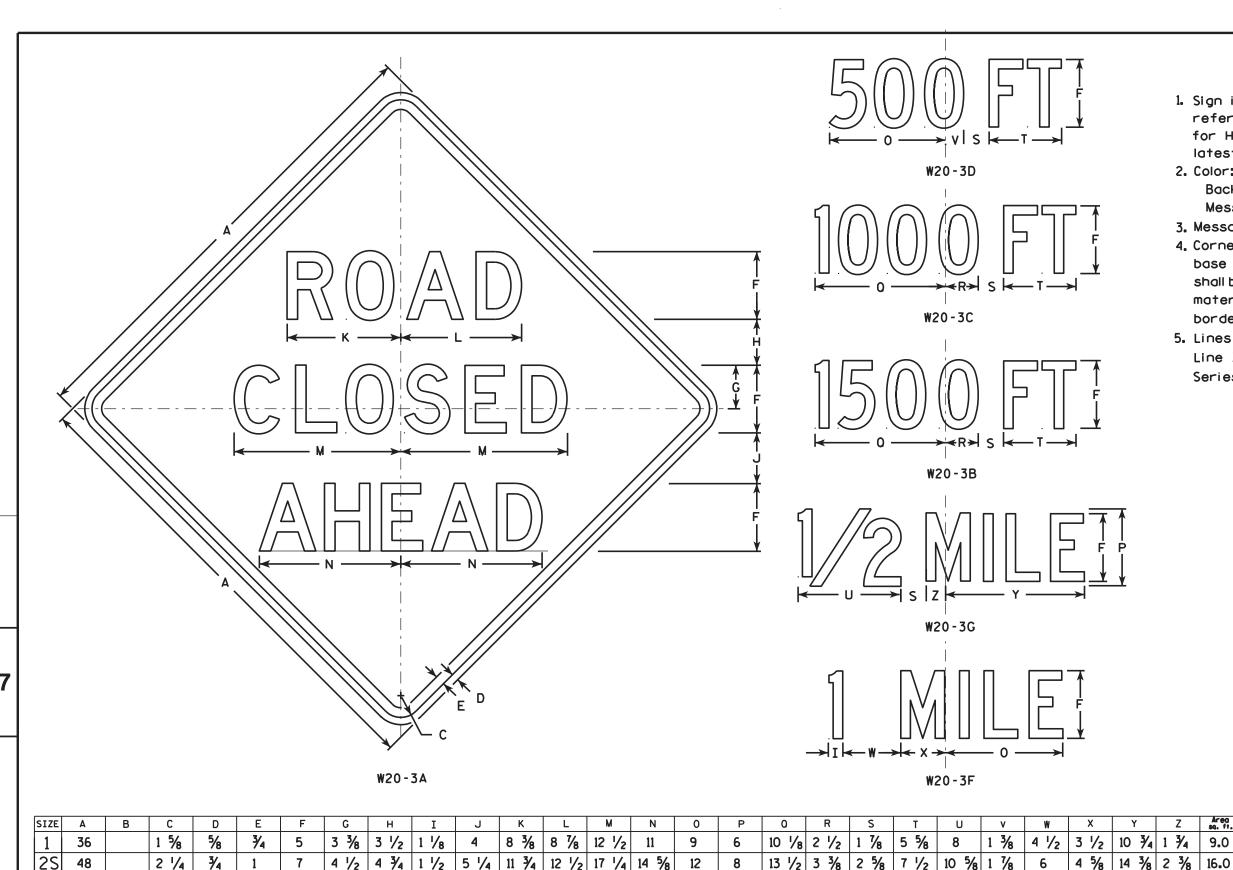
PLOT DATE: 29-MAY-2012 13:03

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 4.961899:1.000000

WISDOT/CADDS SHEET 42



| 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

## NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

4 \( \frac{5}{8} \) 14 \( \frac{3}{8} \) 2 \( \frac{3}{8} \) 16.0 4 % | 14 % | 2 % | 16.0 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 4 5/8 14 3/8 2 3/8 16.0

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: 6799-01-70

2M

5

48

48

48

HWY: CTH G

**COUNTY: PORTAGE** 

12

**SIGNS** 

13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

2 1/8

13 1/2 3 3/8 2 5/8

PLOT NAME :

PLOT SCALE: 9.931739:1.000000

2 1/4

2 1/4

3/4

3/4

3/4

3/4

7 1/2

10 % 1 %

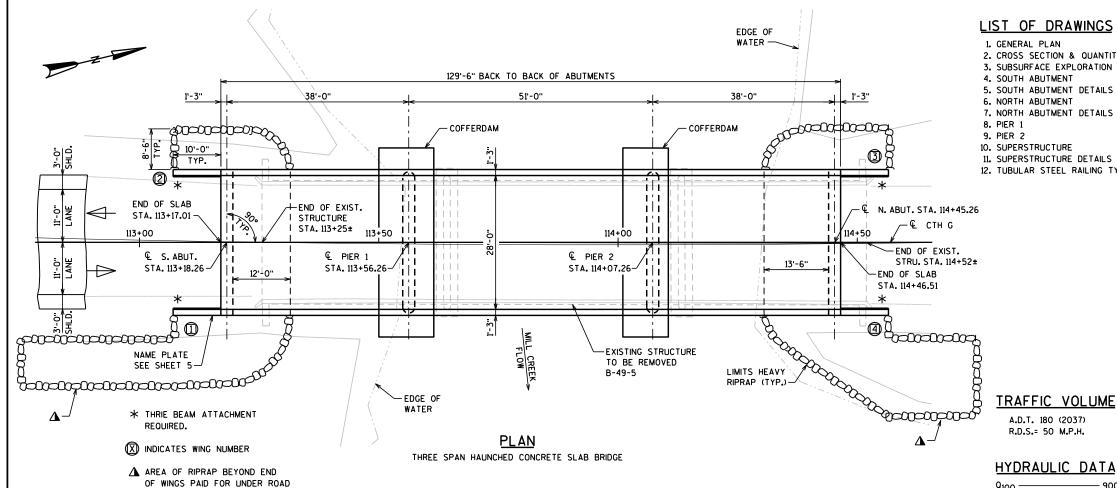
7 1/2 10 5/8 1 7/8

HL-93

RF = 1.21

- RF = 1.57

6799-01-70



EXISTING STRUCTURE

## LIST OF DRAWINGS

- 1. GENERAL PLAN
- 2. CROSS SECTION & QUANTITIES
- 3. SUBSURFACE EXPLORATION 4. SOUTH ABUTMENT
- 5. SOUTH ABUTMENT DETAILS
- 6. NORTH ABUTMENT
- 7. NORTH ABUTMENT DETAILS
- 9. PIER 2
- 10. SUPERSTRUCTURE

OBRIDGE

VELOCITY -

DRAINAGE AREA -

- 11. SUPERSTRUCTURE DETAILS
- 12. TUBULAR STEEL RAILING TYPE 'M'

9000 C.F.S.

6827 C.F.S.

— 6.97 F.P.S.

---- 76 SO. MILES

OOVERFLOW BRIDGE - 2173 C.F.S.

WATERWAY AREA - 979 S.F.

OVERTOPPING FREQUENCY = N/A

SCOUR CRITICAL CODE = 5

HIGH WATER - EL. 1110.06 (100 YEAR)

HIGH WATER ---- EL. 1105.20 (2 YEAR)

MATERIAL PROPERTIES:

**DESIGN DATA** 

DESIGN LOADING

INVENTORY RATING FACTOR

OPERATING RATING FACTOR -

OF 20 POUNDS PER SQUARE FOOT

LIVE LOAD:

CONCRETE MASONRY f'c = 4,000 P.S.I. - f'c = 3,500 P.S.I. ALL OTHER -HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 fy = 60,000 P.S.I.

WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV) - 250 (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE

## FOUNDATION DATA

ABUTMENTS AND PIERS TO BE SUPPORTED ON HP 10X42 STEEL PILING. PILING AT THE NORTH AND SOUTH ABUTMENTS SHALL BE DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS\*\* PER PILE. PILING AT PIER 1 AND PIER 2 SHALL BE PREBORED A MINIMUM OF 3' INTO WEATHERED ROCK. SHAFTS SHALL BE CASED AND HAVE A DIAMETER OF AT LEAST 18-INCHES. AFTER PILES HAVE BEEN FIRMLY SEATED, FILL THE SHAFT WITH CEMENT GROUT. ABUTMENT PILES SHALL BE FITTED WITH PILE POINTS.

ESTIMATED 25' LONG AT SOUTH ABUTMENT ESTIMATED 25' LONG AT PIER 1 ESTIMATED 25' LONG AT PIER 2 ESTIMATED 30' LONG AT NORTH ABUTMENT

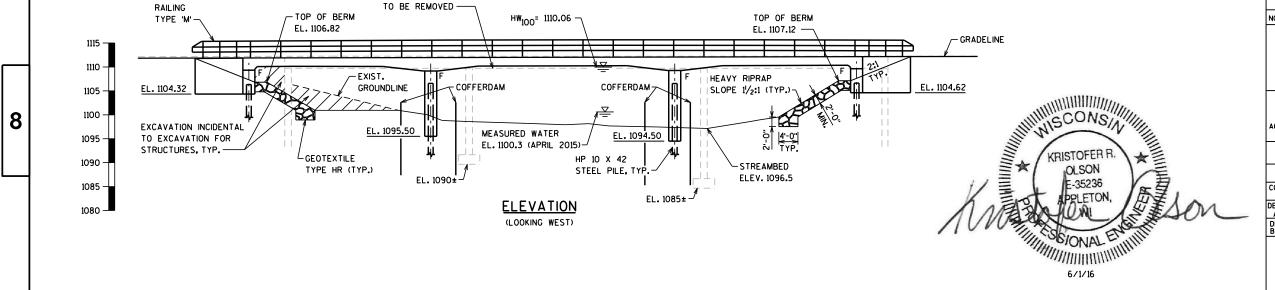
\*\* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

## CONSULTANT CONTACT

KRISTOFER OLSON OMNNI ASSOCIATES, INC. (920) 735-6900

## BRIDGE OFFICE CONTACT

WILLIAM DREHER (608) 266-8489



	BY			ISION	REV		TE	DAT	NO.
		Y D	RED B	S PREPA	L PLAN	ORIGINA			
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8	1 <mark>2/16</mark>	08/1	PORTA	WISCON TRANSF Juhu ESIGN ENG	ENT OF	PARTM Villian	ED	EPTE	ACC
		183	49-	В-	TURE	RUC	ST		
			CREEK	R MILL (	G OVE	СТН			
	CARSON			TOWN	AGE	PORT		JNTY	COU
	HL-93	LOAD	TIONS	SPECIFICA	DESIGN	BRIDGE	SPEC. D LRFD		
	KRO	PLANS CK'D.	BRE	DRAWN BY	KRO	DESIGN CK'D.	D BRE	SIGNE	DES BY
	OF 12	ET 1	SHE		RAL	ENE	G		

PLAN

TUBULAR

PLAN QUANTITIES

6799-01-70

## **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

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

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

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

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

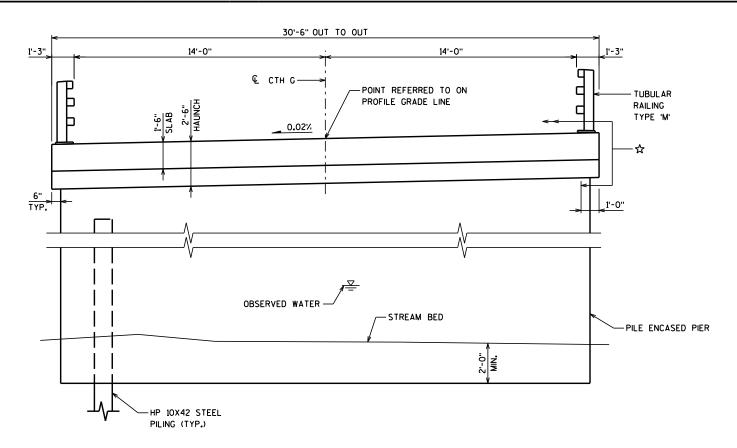
THE EXISTING GROUND LINE AND STREAMBED SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION.

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

THIS BRIDGE WILL REPLACE THE EXISTING CONCRETE SLAB BRIDGE SUPPORTED ON CONCRETE SILL ABUTMENTS AND CONCRETE SOLID SHAFT PIERS. THE STRUCTURE WAS BUILT IN 1956.

☼ PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP, SIDES, AND EXTERIOR 1'-O" OF THE UNDERSIDE OF THE DECK, TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE END 1'-O" OF THE FRONT FACE OF ABUTMENT.

AT PIERS CONCRETE POURED UNDER WATER WILL BE ALLOWED IF WATER DEPTH TO BOTTOM OF PIER IS LESS THAN 5 FEET. WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.



## CROSS SECT. THRU RDWY.

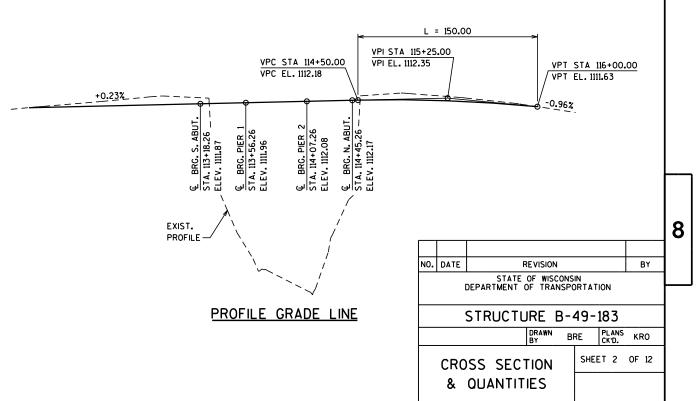
LOOKING UPSTATION

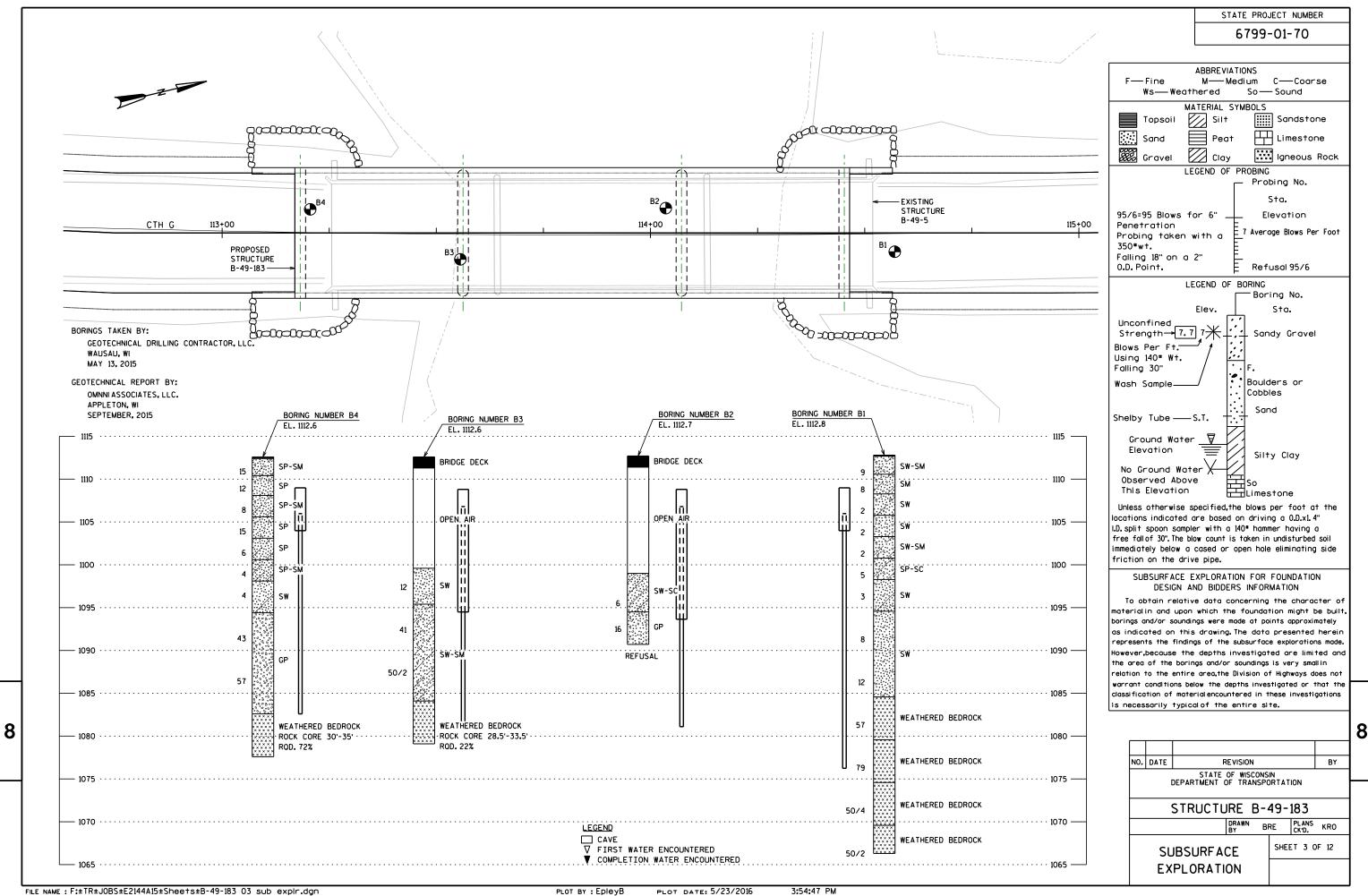
## BENCH MARKS (NAVD 88)

NO.	STATION	DESCRIPTION	ELEV.
1	109+39, 30'RT.	SPK IN 10" ASH @ TREE	1110.08
2	112+77, 32'LT.	SPK IN TWIN 18" MAPLE TREE	1107.76
3	116+12, 37'LT.	SPK IN TWIN 15" MAPLE TREE	1106.98
4	121+17, 33'RT.	SPK IN TWIN 12" MAPLE TREE	1105.58

## TOTAL ESTIMATED QUANTITIES (CATEGORY 0020)

ITEM NO.	BID ITEMS	UNIT	SUPER.	SOUTH ABUT.	NORTH ABUT.	PIER 1	PIER 2	TOTALS
203.0600.5	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA 113+82	LS						1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-49-183	LS						1
206.5000	COFFERDAM STRUCTURE B-49-183	LS						1
210.1100	BACKFILL STRUCTURE TYPE A	CY		70	70			140
502.0100	CONCRETE MASONRY BRIDGES	CY	247	30	30	38	40	385
502.3200	PROTECTIVE SURFACE TREATMENT	SY	535					535
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		1,840	1,840	1,670	1,800	7,150
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	61,330	1,370	1,370	60	60	64,190
513.4061	RAILING TUBULAR TYPE M B-49-183	LF	300					300
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		8	8			16
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF				87	81	168
550.0500	PILE POINTS	EA		5	5			10
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF		125	150	150	150	575
606.0300	RIPRAP HEAVY	CY		86	89			175
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		65	65			130
645.0120	GEOTEXTILE TYPE HR	SY		130	135			265
	NON-BID ITEMS							
	FILLER	SIZE						1/2"&3/4"





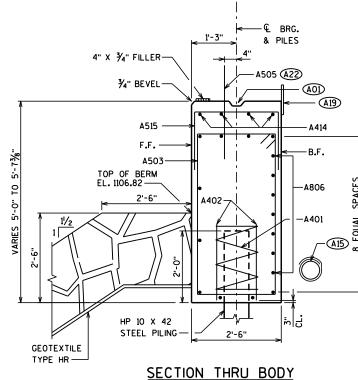
6799-01-70

## **LEGEND**

- (AO1) KEYED CONST. JOINT FORMED BY BEVELED 2" x 6".
- GOS SOUTH ABUTMENT TO BE SUPPORTED ON HP10×42 STEEL PILING FITTED WITH PILE POINTS, ESTIMATED 25'-O" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.
- (A15) PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN, SEE THIS SHEET FOR DETAILS.
- (A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (I" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.) EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (A19) 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- (A22) A505 BARS AT 1'-0". THESE BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.

SEE SHEET 5 FOR BILL OF BARS AND BAR BENDING DIAGRAMS. SEE SHEET 8 FOR PILE SPLICE DETAILS.

(X) INDICATES WING NUMBER.



HORIZ. BARS NOT OTHERWISE IDENTIFIED ARE A604 BARS

B B A VVVVVVV SECTION B-B

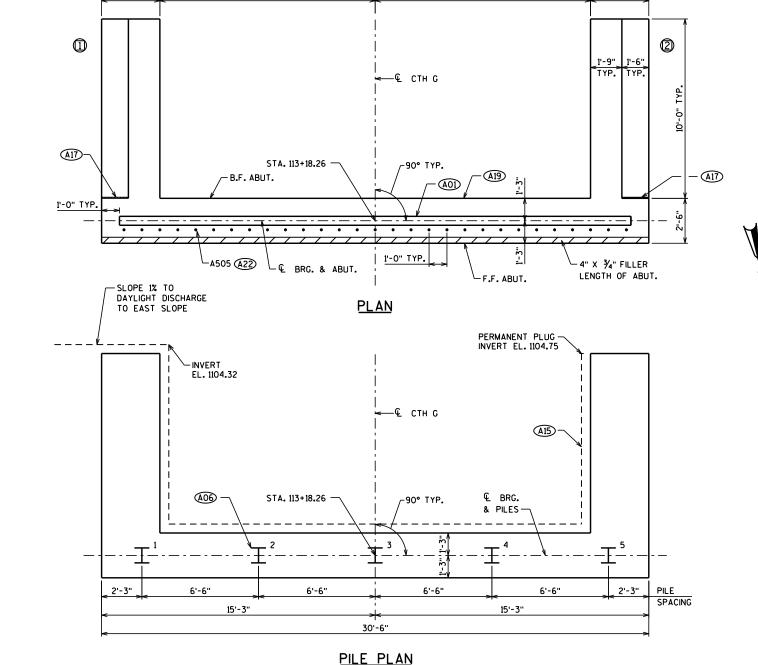
## RODENT SHIELD DETAIL

\* 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.

# NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-49-183 DRAWN KRW PLANS JAW CKD. JAW SHEET 4 OF 12



—¶∟ стн с

EL. 1109.62

10 SPA. @ 11" = 9'-2"

A503

**ELEVATION** 

-A505 (A22)

-A604 F.F., TOP, BOT.

14 SPA. @ 9" = 10'-6"

A503

12'-0"

A515 - 14 SPA. € 1'-0" = 14'-0"

A806 B.F.

14 SPA. @ 9" = 10'-6"

A503

NOTE: SPACE A503 BARS TO MISS PILING

12'-0"

EL. 1112.18

EL. 1109.93

8

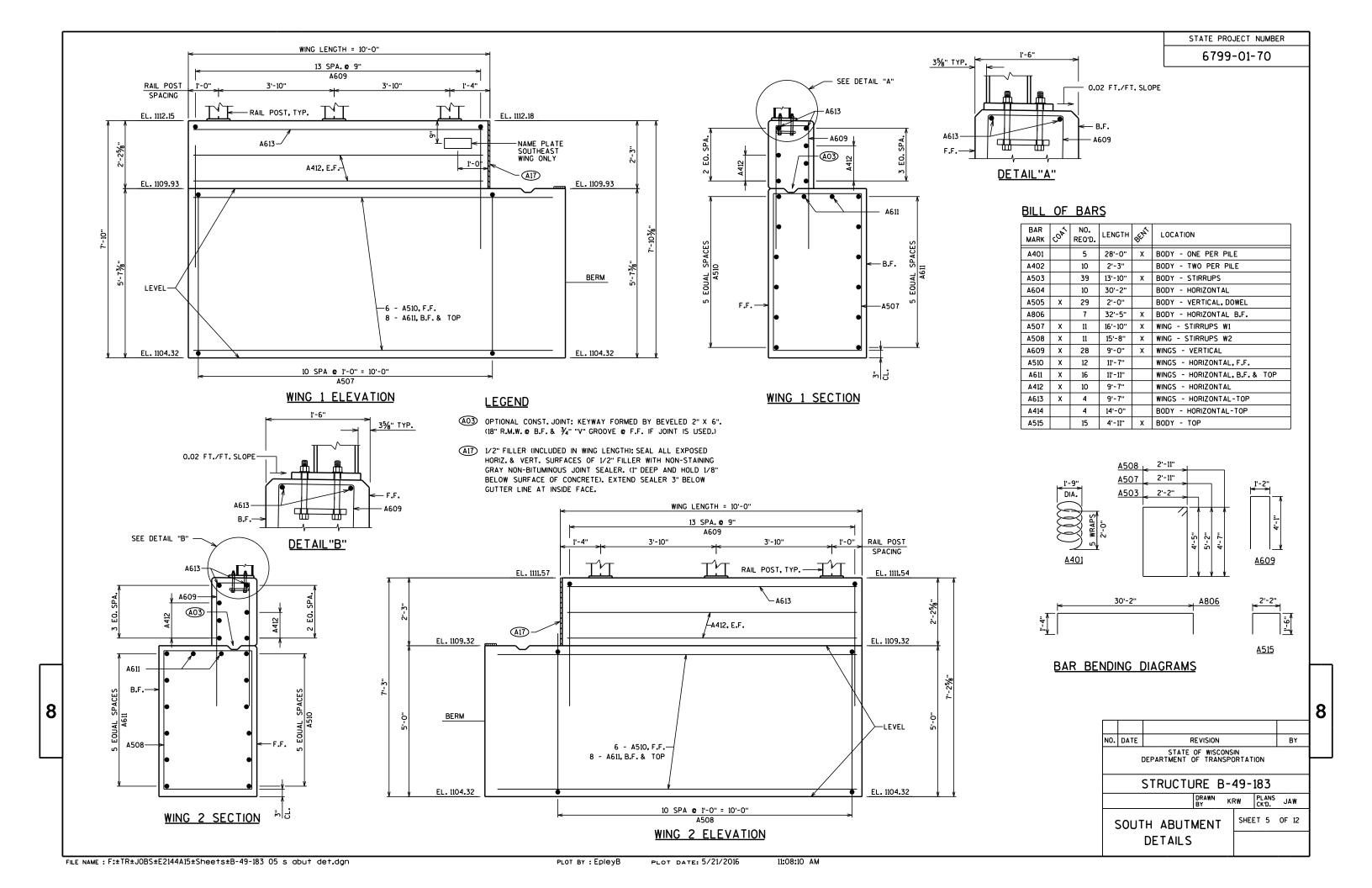
EL. 1111.57

EL. 1109.32

EL. 1104.32

-LEVEL

3'-3"



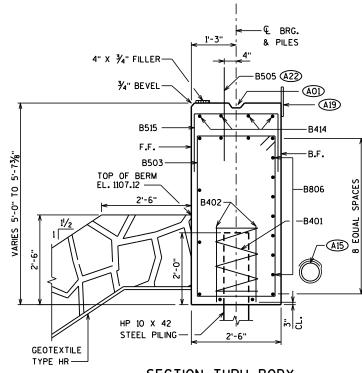
6799-01-70

## **LEGEND**

- (AO1) KEYED CONST. JOINT FORMED BY BEVELED 2" x 6".
- NORTH ABUTMENT TO BE SUPPORTED ON HP10×42 STEEL PILING FITTED WITH PILE POINTS, ESTIMATED 30'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.
- (A15) PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN, SEE SHEET 4 FOR DETAILS.
- (A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.) EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (A19) 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- B505 BARS AT 1'-0". THESE BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.

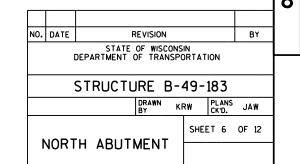
SEE SHEET 7 FOR BILL OF BARS AND BAR BENDING DIAGRAMS. SEE SHEET 8 FOR PILE SPLICE DETAILS.

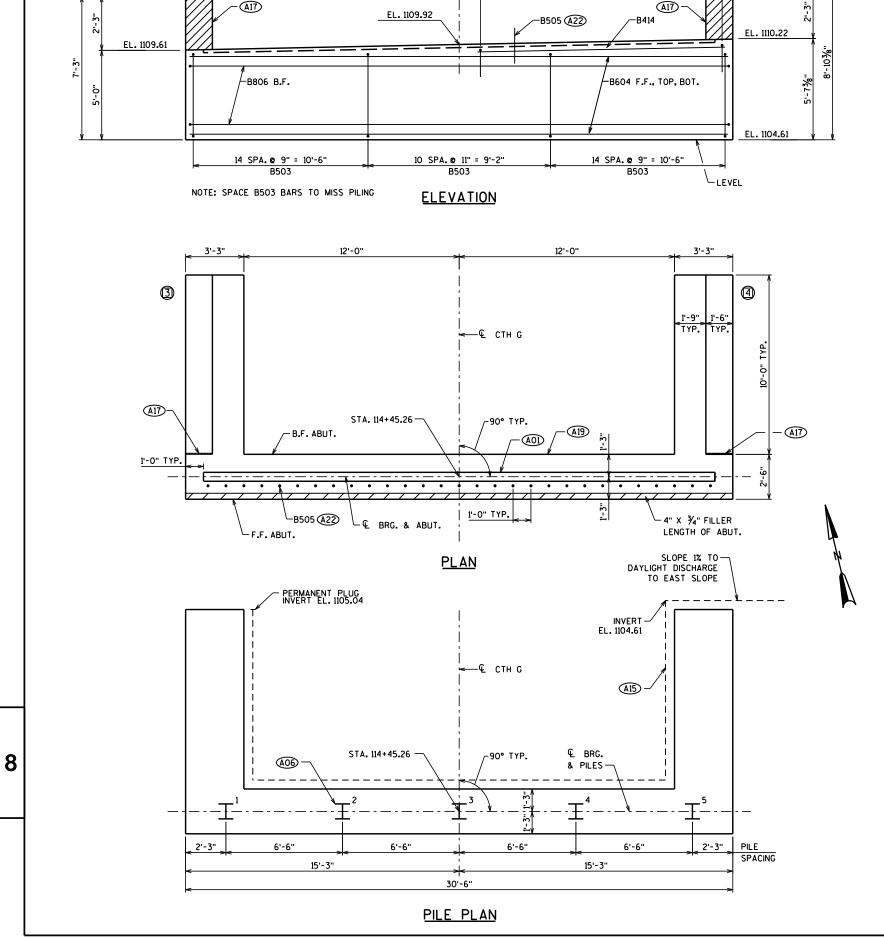
(X) INDICATES WING NUMBER



SECTION THRU BODY

HORIZ.BARS NOT OTHERWISE IDENTIFIED ARE B604 BARS



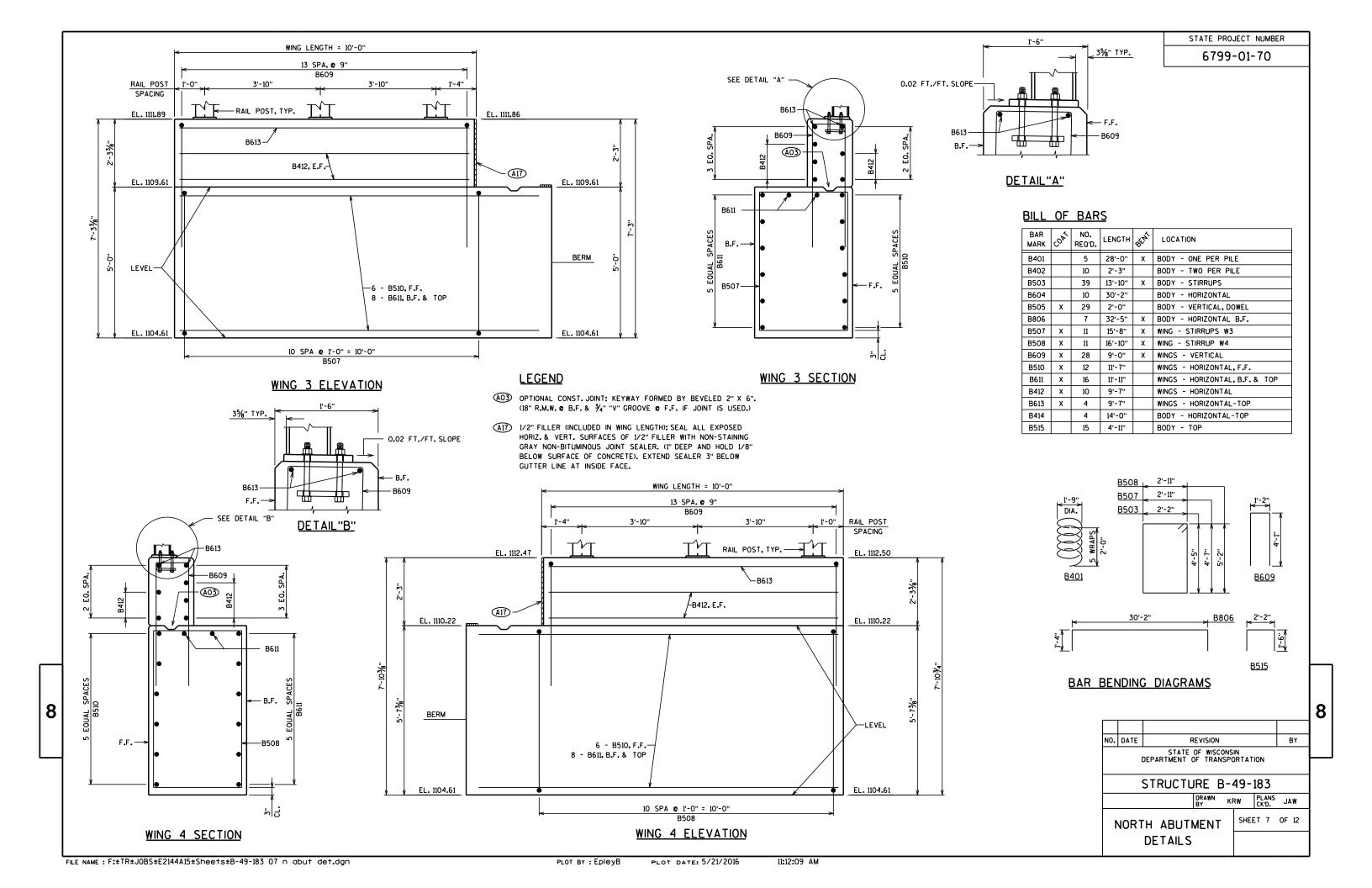


€ CTH G-

EL. 1111.86

B515 - 14 SPA. @ 1'-0" = 14'-0"

EL. 1112.47



STATE PROJECT NUMBER 6799-01-70

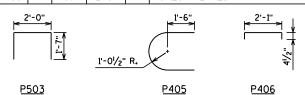
- (POL) KEYED CONST. JOINT FORMED BY BEVELED 2" x 6".
- POZ PIER 1 TO BE SUPPORTED ON HP10X42 STEEL PILING. ESTIMATED 25'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE. PILING AT PIER 1 SHALL BE PREBORED A MINIMUM OF 3'-0" INTO WEATHERED ROCK. SHAFTS SHALL BE CASED AND HAVE A DIAMETER OF AT LEAST 18-INCHES. AFTER PILES HAVE BEEN FIRMLY SEATED, FILL THE SHAFT WITH CEMENT GROUT.
- POB P502 BARS @ 1'-0" CTRS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

SEE THIS SHEET FOR PILE SPLICE DETAILS

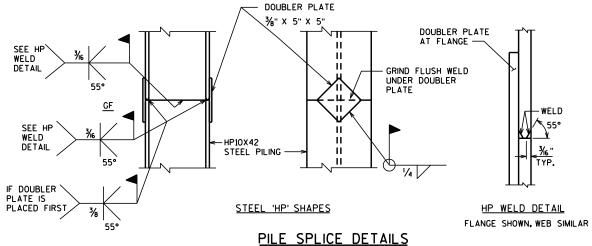
## **BILL OF BARS**

**LEGEND** 

BAR MARK	coat	NO. REQ'D.	LENGTH	BENT	LOCATION
P501		62	12'-10"		VERTICAL
P502	х	29	2'-0"		VERTICAL DOWELS
P503		14	4'-11"	Х	STIRRUP
P404		30	27'-0"		HORIZONTAL
P405		29	6'-3"	х	HORIZONTAL ENDS
P406		60	2'-8"	х	HORIZONTAL TIES

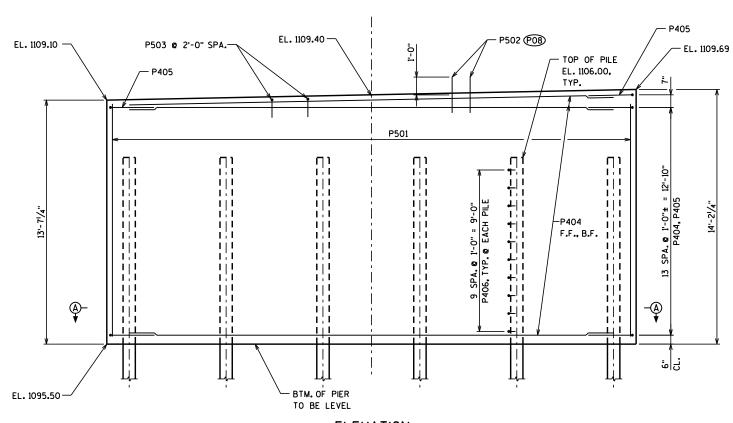


## BAR BENDING DIAGRAMS

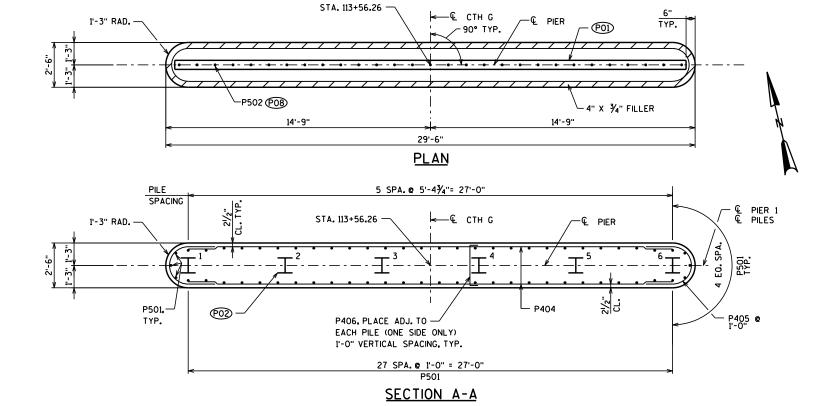


NO.	DATE		F	EVISION				В١	ì
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		STRUC	ΤL	IRE I	B-	49-	183		
				DRAWN By	KF	RW	PLANS CK'D.	JAW	'
		חיבט				SHEE	ET 8	OF 1	2
		PIER	1						

8







4" X 3/4" FILLER -

¾" BEVEL -

P503-P501

2<sup>1</sup>/<sub>2</sub>" CL. TYP.

HP10X42

STEEL PILING

END VIEW

– P502 (P08)

(POI)

8

6799-01-70

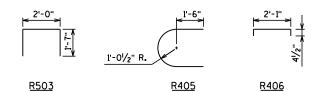
## **LEGEND**

- (POI) KEYED CONST. JOINT FORMED BY BEVELED 2" x 6".
- PO2 PIER 2 TO BE SUPPORTED ON HP10X42 STEEL PILING. ESTIMATED 25'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE. PILING AT PIER 2 SHALL BE PREBORED A MINIMUM OF 3'-0" INTO WEATHERED ROCK. SHAFTS SHALL BE CASED AND HAVE A DIAMETER OF AT LEAST 18-INCHES. AFTER PILES HAVE BEEN FIRMLY SEATED, FILL THE SHAFT WITH CEMENT GROUT.
- POB R502 BARS @ 1'-0" CTRS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-O" INTO CONC.)

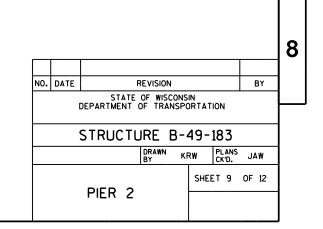
SEE SHEET 8 FOR PILE SPLICE DETAILS

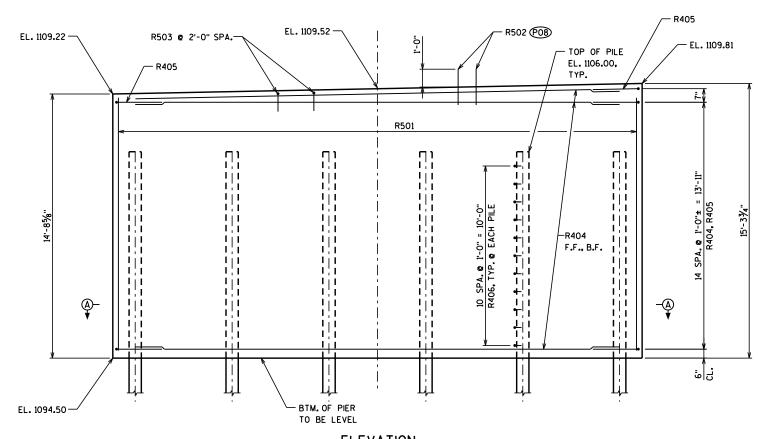
# **BILL OF BARS**

BAR MARK	coar	NO. REO'D.	LENGTH	BENT	LOCATION
R501		62	13'-11"		VERTICAL
R502	х	29	2'-0"		VERTICAL DOWELS
R503		14	4'-11"	х	STIRRUP
R404		32	27'-0"		HORIZONTAL
R405		31	6'-3"	х	HORIZONTAL ENDS
R406		66	2'-8"	х	HORIZONTAL TIES



BAR BENDING DIAGRAMS

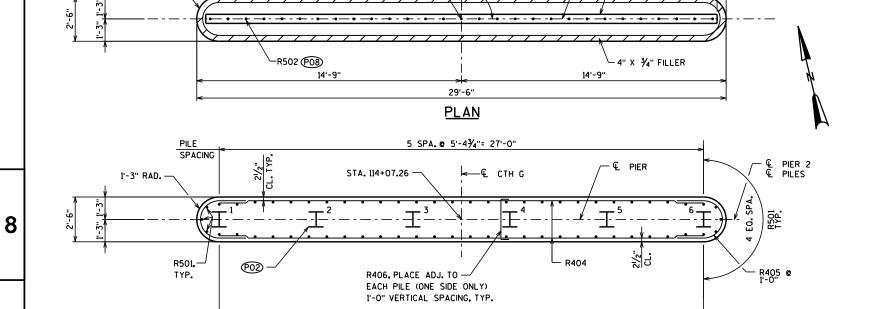






—⊊ стн с

STA. 114+07.26 -



· Œ PIER

- (POI)

TYP.

1'-3" RAD. —

4" X 3/4" FILLER -

¾" BEVEL -

R503-

R501 ·

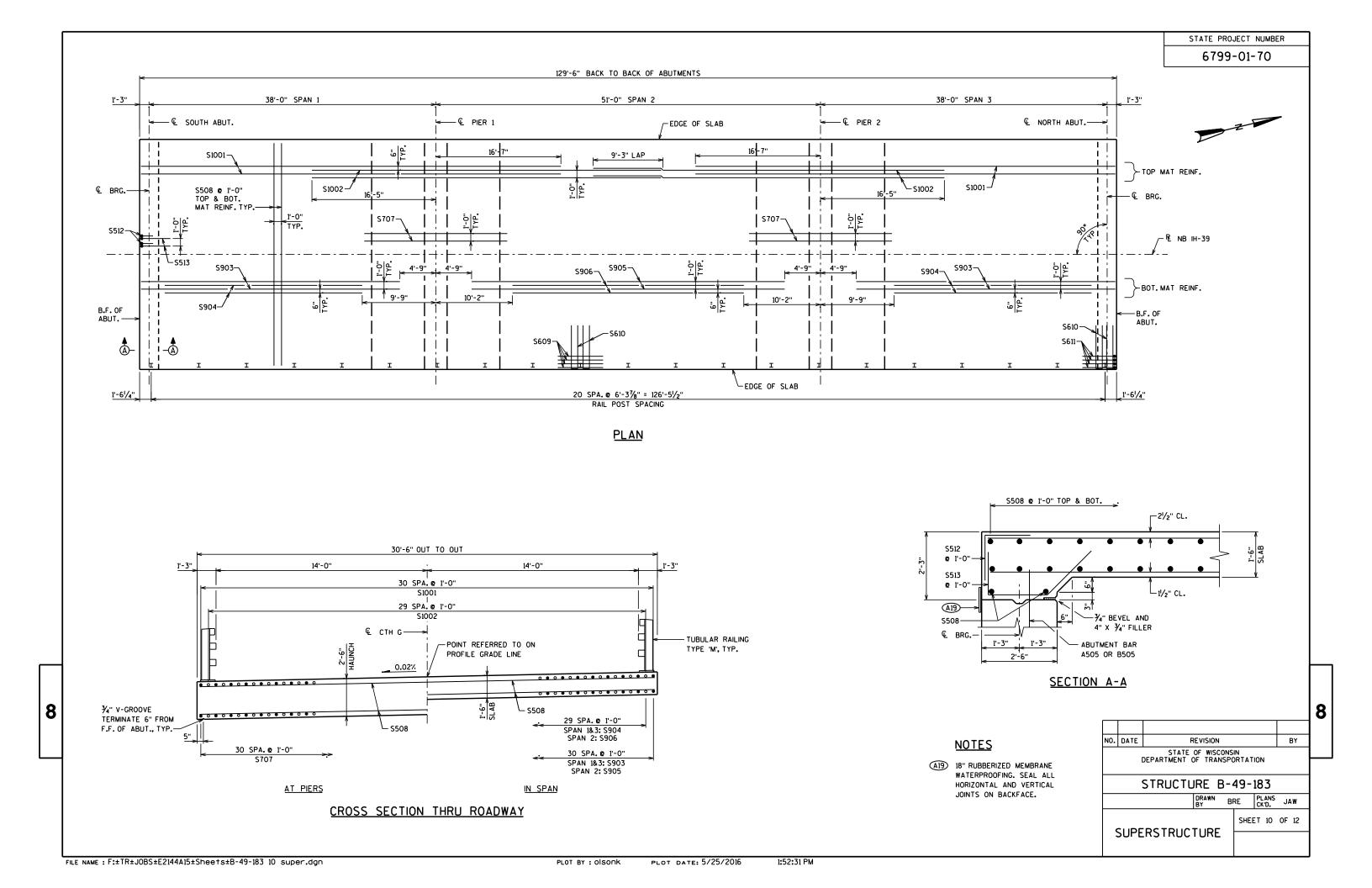
HP10X42

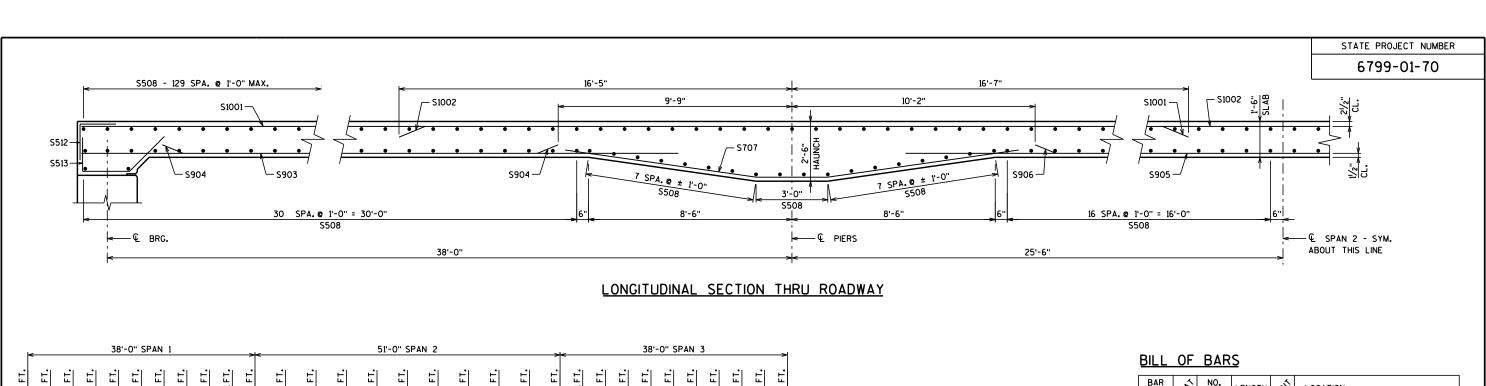
STEEL PILING

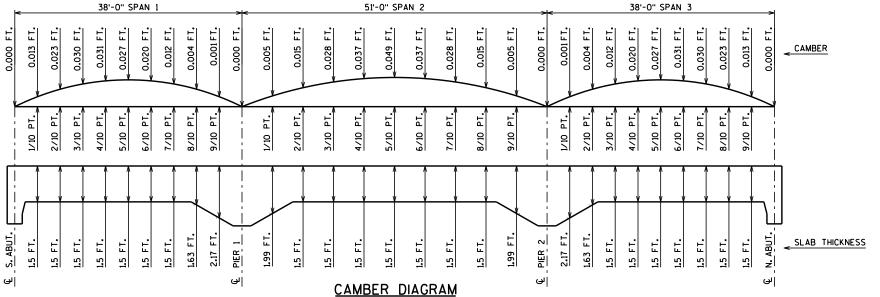
END VIEW

- R502 **P**08

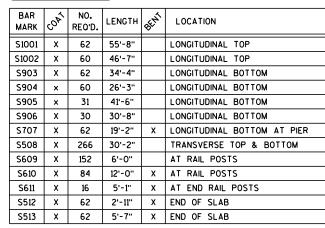
-<sub>(P01)</sub>

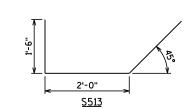






CAMBER IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS.
CAMBER SPANS AS SHOWN TO PROVIDE FOR DEADLOAD
DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT
INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

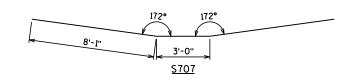




S512

<u>S610</u>

<u>S611</u>



## TOP OF DECK ELEVATIONS

8

LOCATION	S.ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 1
W. EDGE	1111.57	1111.58	1111.59	1111.60	1111.60	1111.61	1111.62	1111.63	1111.64	1111.65	1111.66
PROFILE	1111.87	1111.88	1111.89	1111.90	1111.91	1111.92	1111.93	1111.94	1111.94	1111.95	1111.96
E. EDGE	1112.18	1112.19	1112.20	1112.21	1112.21	1112.22	1112.23	1112.24	1112.25	1112.26	1112.27

LOCATION	PIER 1	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 2
W. EDGE	1111.66	1111.67	1111.68	1111.69	1111.70	1111.72	1111.73	1111.74	1111.75	1111.76	1111.77
PROFILE	1111.96	1111.97	1111.99	1112.00	1112.01	1112.02	1112.03	1112.04	1112.06	1112.07	1112.08
E. EDGE	1112.27	1112.28	1112.29	1112.30	1112.31	1112.33	1112.34	1112.35	1112.36	1112.37	1112.38

LOCATION	PIER 2	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	N.ABUT.
W. EDGE	1111.77	1111.78	1111.79	1111.80	1111.81	1111.82	1111.83	1111.84	1111.84	1111.85	1111.86
PROFILE	1112.08	1112.09	1112.10	1112.11	1112.11	1112.12	1112.13	1112.14	1112.15	1112.16	1112.17
E. EDGE	1112.38	1112.39	1112.40	1112.41	1112.42	1112.43	1112.44	1112.45	1112.45	1112.46	1112.47

## **NOTES**

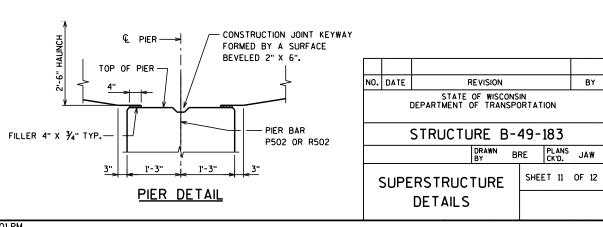
SLAB THICKNESS DIMENSION IS MINIMUM. ANY TOLERANCES TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

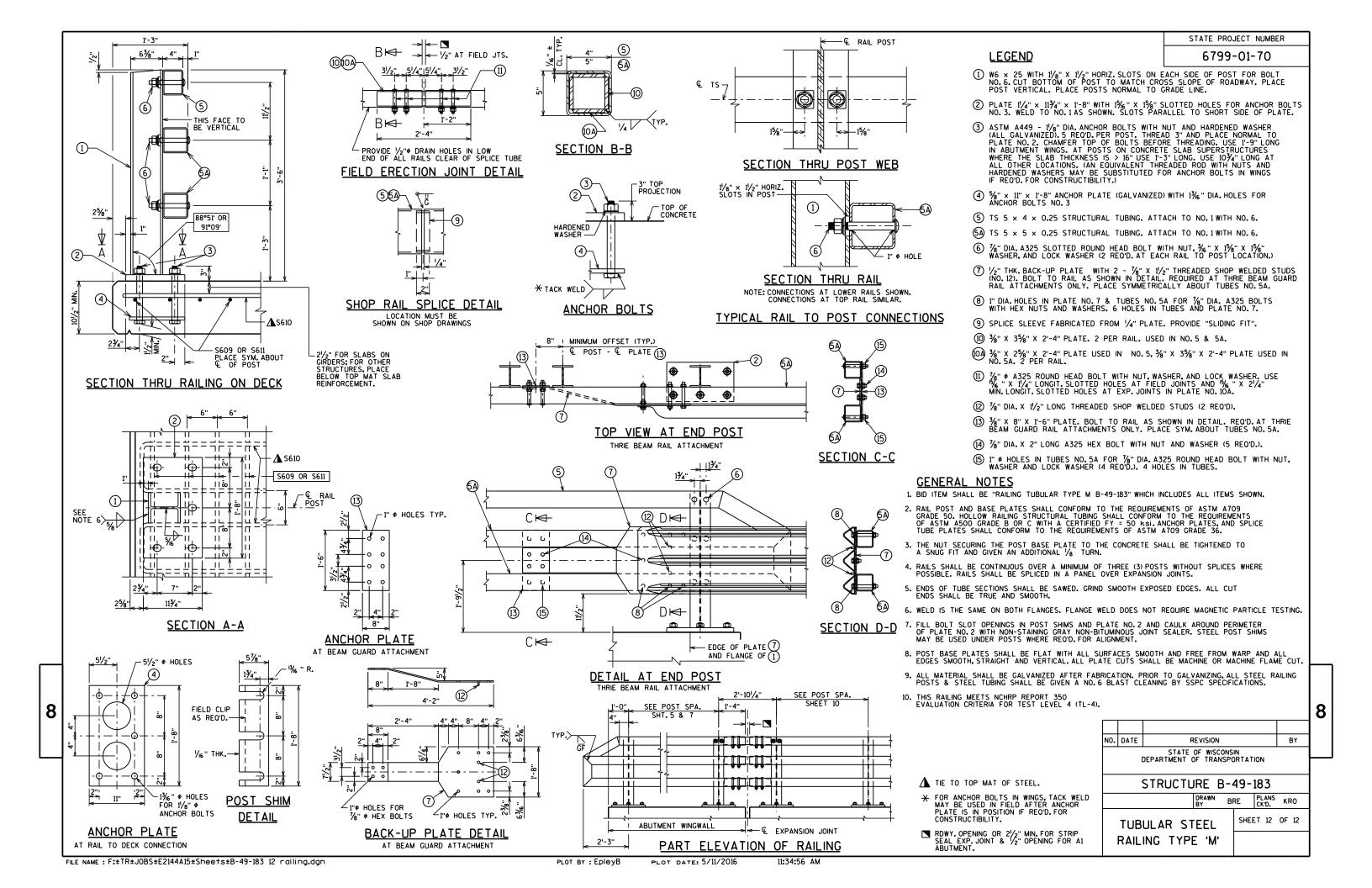
TOP TRANSVERSE BARS IN THE SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-O" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-O" CENTERS.

TRANSVERSE BARS SHALL BE PLACED PARALLEL TO THE  $\P$  OF SUBSTRUCTURE UNITS.

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE  $\P$  OF ABUTMENTS, THE  $\P$  OF PIERS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR  $\P$ .

## BAR BEND DIAGRAMS





## CTH G SOUTH

	AREA (SF)			INCREMENTAL VOLUME (CY) (UNADJUSTED)			CUMULATIVE VOLUME (CY)		
STATI ON	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1. 00	EXPANDED FILL 1.25	MASS ORDINATE
110+75	10	0	0	0	0	0	0	0	0
111+00	11	0	3	10	0	2	10	2	8
111+25	13	0	2	11	0	3	21	5	15
111+50	15	0	21	13	0	10	33	18	15
111+75	39	4	40	25	2	28	58	54	3
111+80. 16	39	4	46	7	1	8	66	64	0
112+03.89	34	4	71	32	3	51	98	128	-36
112+33. 24	34	4	41	37	4	61	134	205	-80
112+56. 97	37	4	17	31	3	25	165	236	-83
112+75	41	4	10	26	2	9	192	247	-71
113+07.01	43	4	12	50	4	13	241	264	-42

## CTH G NORTH

	AREA (SF)			INCREMENTAL VOLUME (CY) (UNADJUSTED)			CUMULATI VE VOLUME (CY)		
STATI ON	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1. 00	EXPANDED FILL 1.25	MASS ORDINATE
114+56. 51	30	4	37	0	0	0	0	0	0
114+75	33	4	56	22	3	32	22	40	-21
115+05.5	36	4	32	39	5	49	61	102	-48
115+31.4	36	4	50	35	4	39	95	151	-67
115+58. 13	31	4	96	33	4	73	129	242	-128
115+85. 22	34	4	88	32	4	93	161	357	-215
116+00	35	0	43	19	1	36	180	402	-243
116+50	11	0	34	42	0	71	222	492	-290
116+70. 11	9	0	32	8	0	25	230	523	-313
117+00	4	0	20	7	0	29	237	559	-341
117+06. 47	4	0	17	1	0	4	238	564	-346

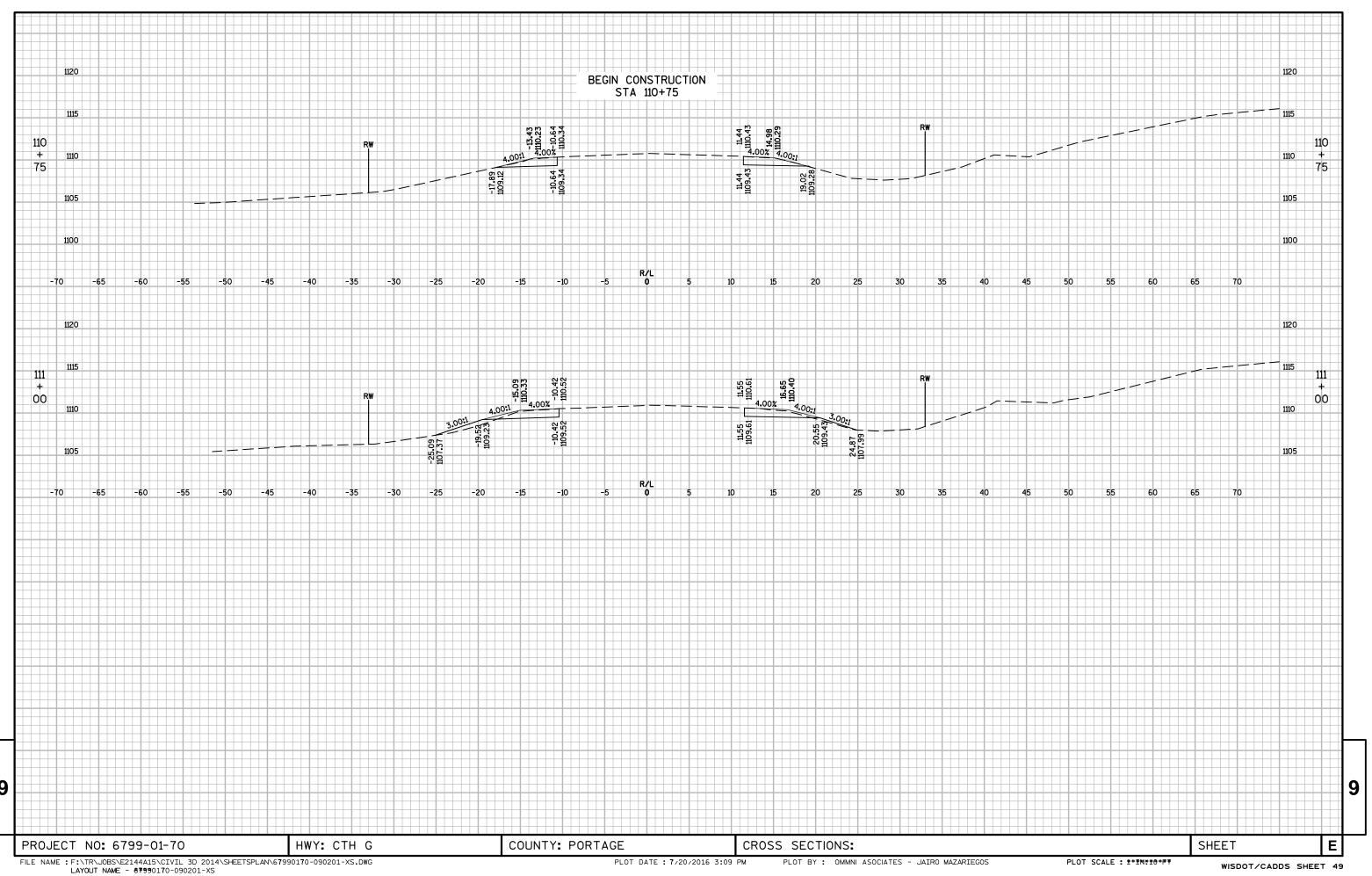
NOTE 1: CUT INCLUDES REMOVING EXISTING PAVEMENT.

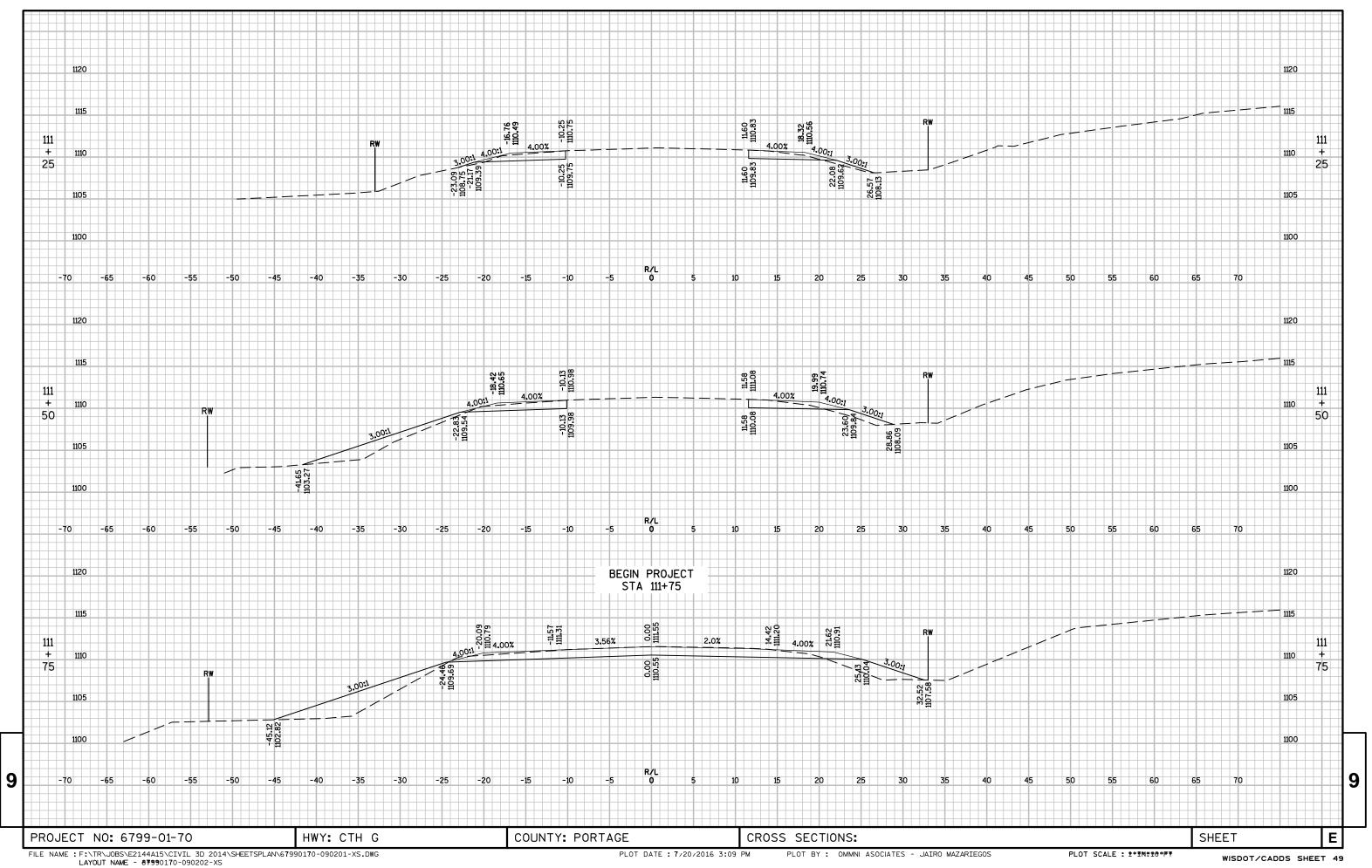
EXISTING PAVEMENT IS NOT SHOWN IN CROSS SECTIONS.

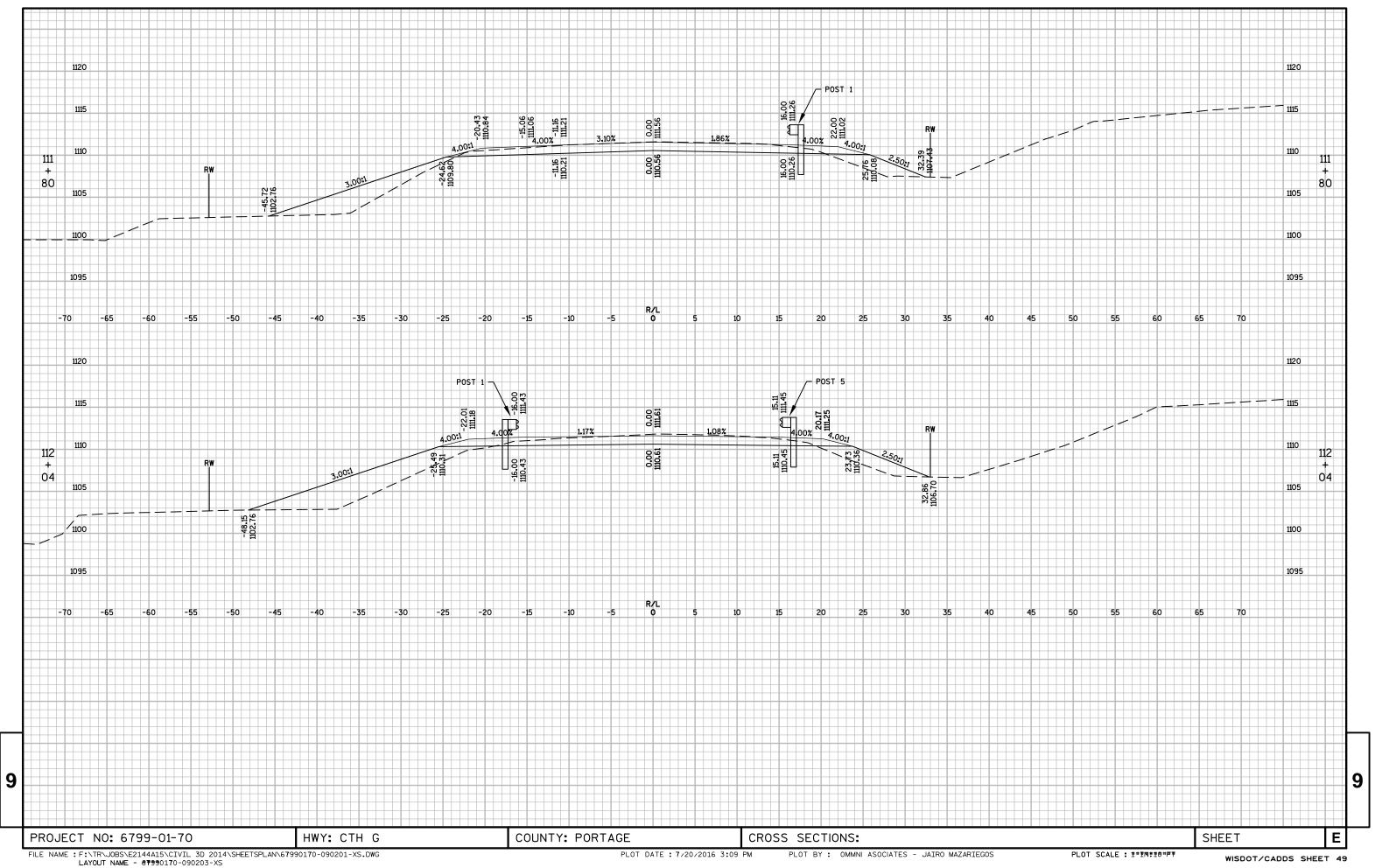
9

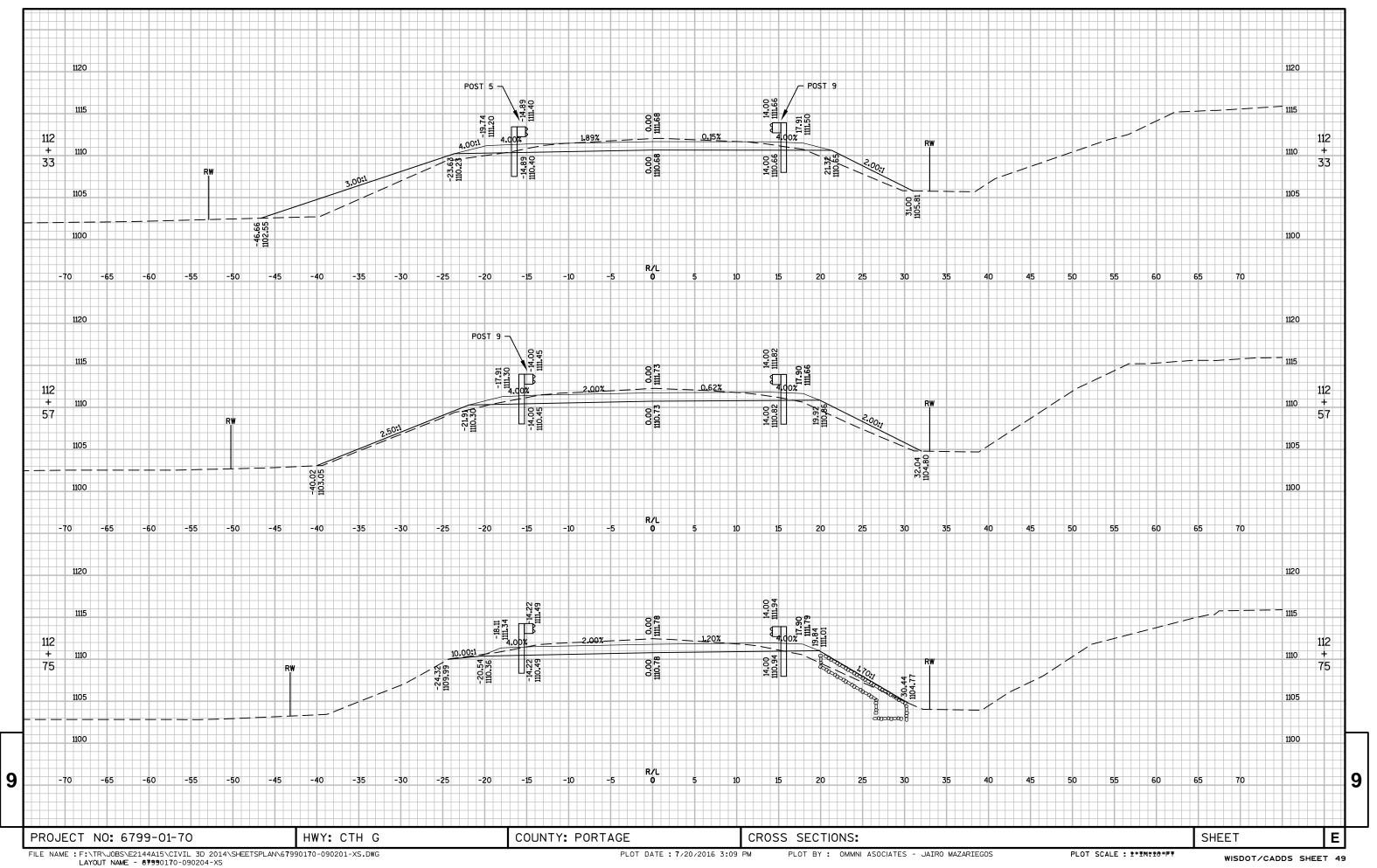
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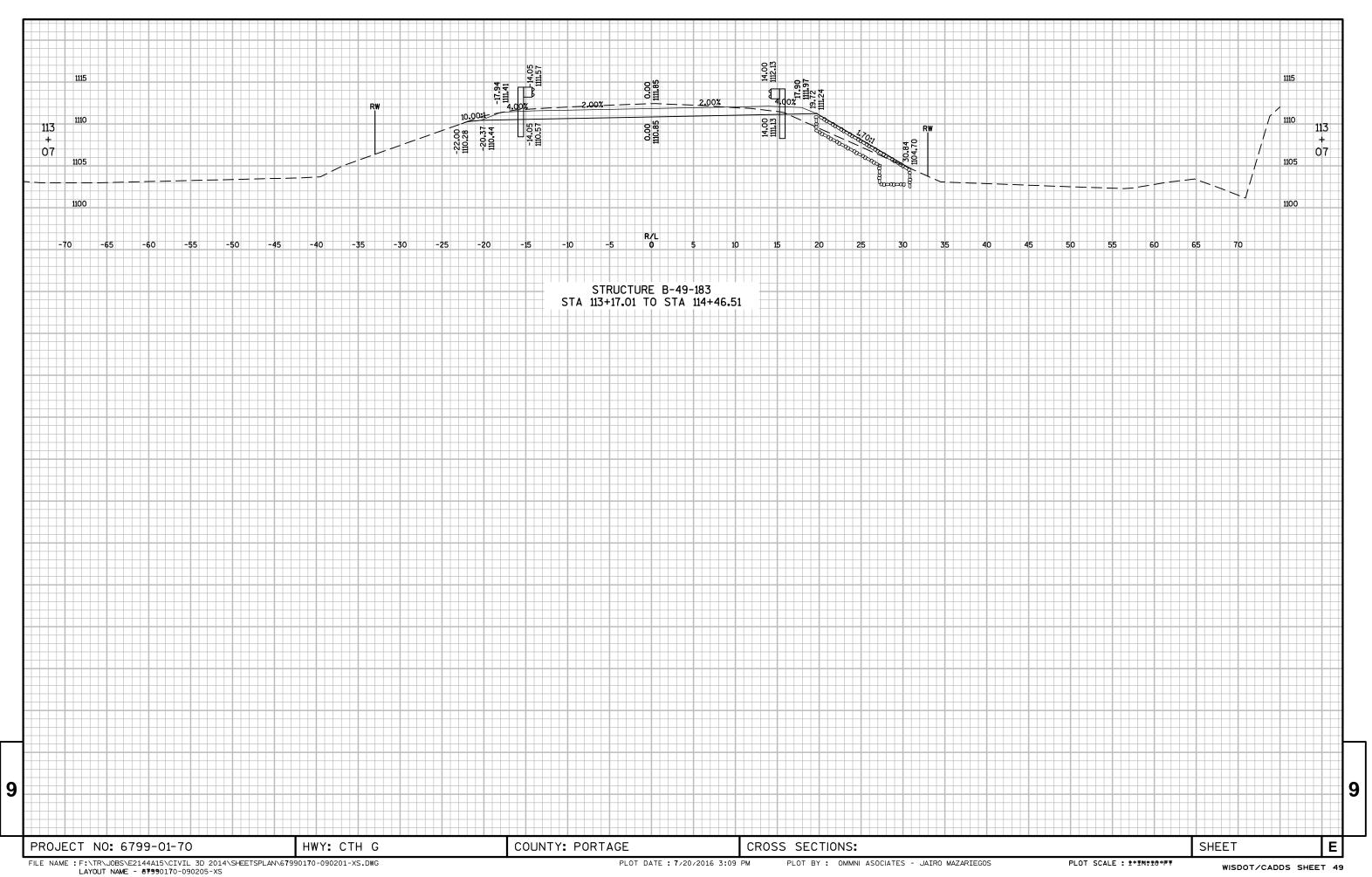
PROJECT NO: 6799-01-70 HWY: CTH G COUNTY: PORTAGE EARTHWORK QUANTITIES SHEET NO:

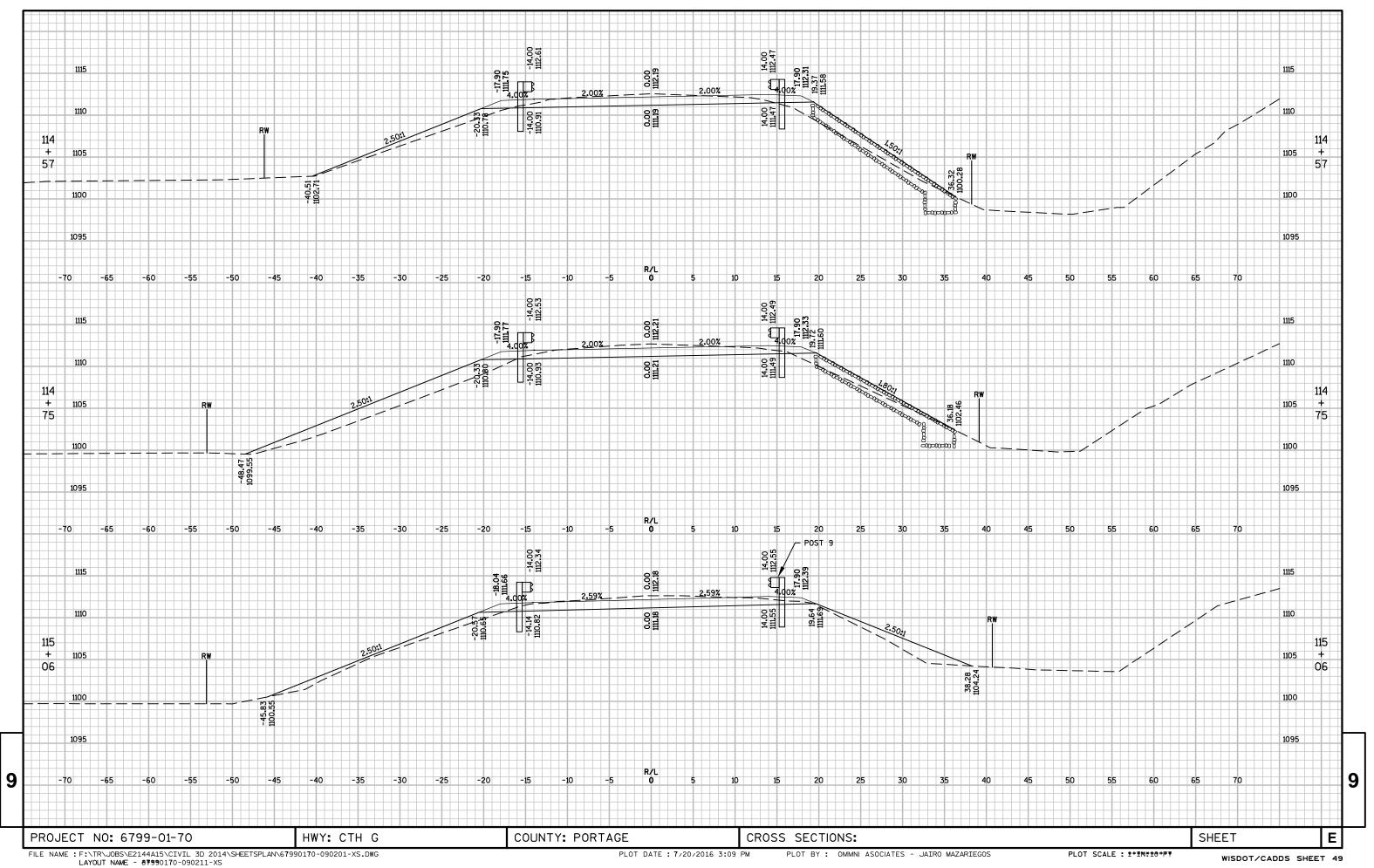


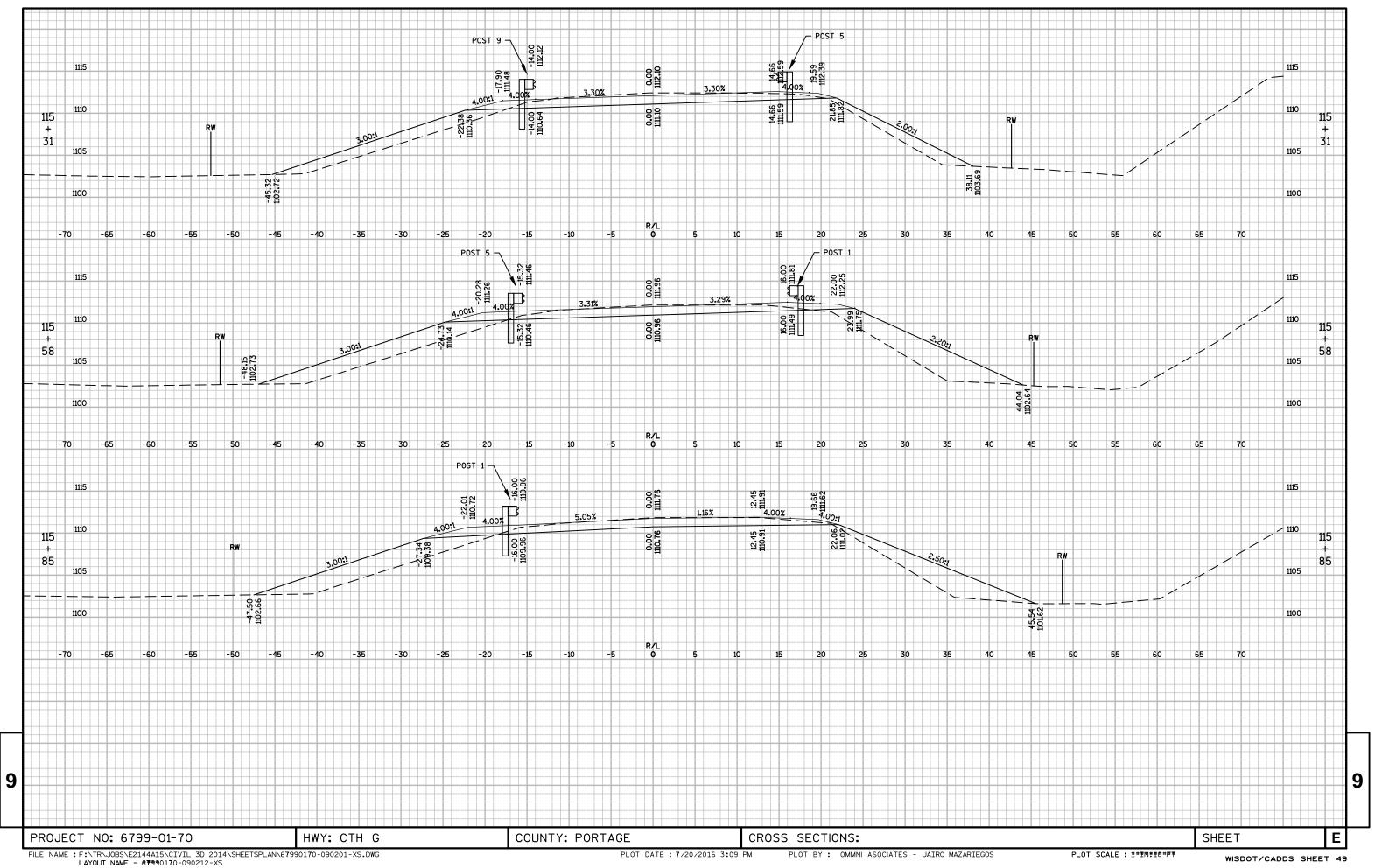


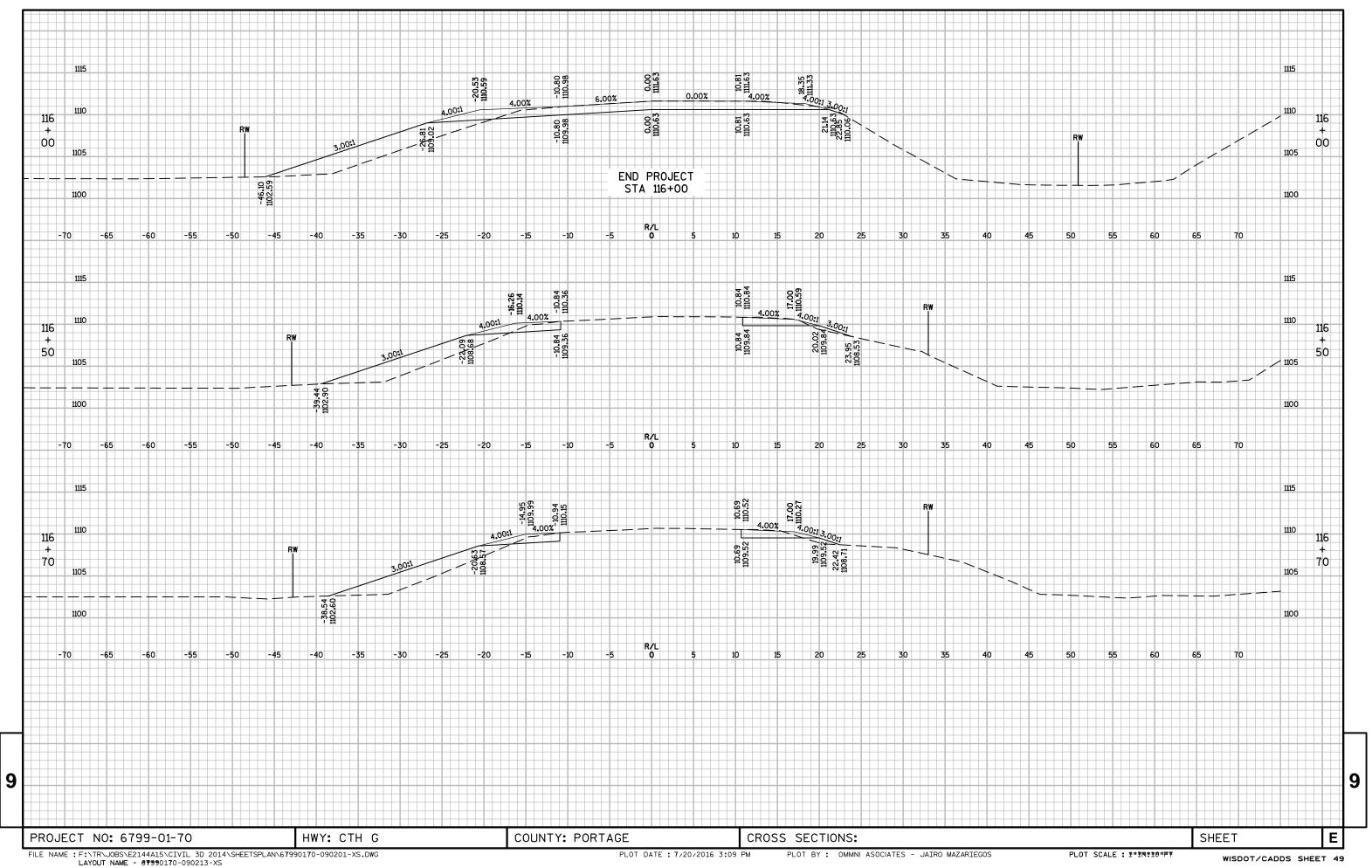


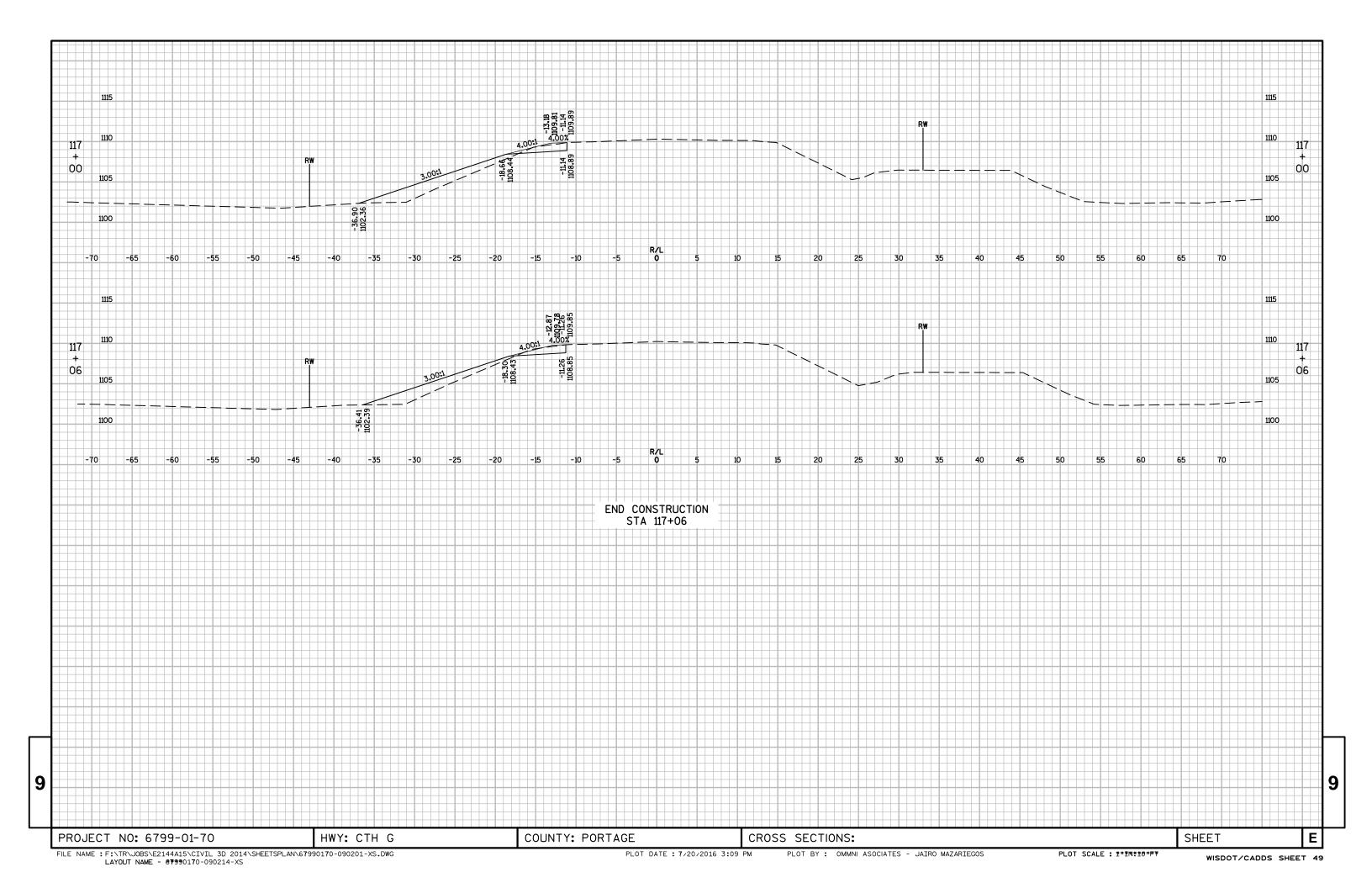












Notes



# Wisconsin Department of Transportation

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