SWL 5409-00-71 COUNTY: VERNON EXISTING CULVERT PROPOSED CULVERT (Box ar Pipe) COMBUSTIBLE FLUIDS HIGH VOLTAGE MARSH AREA WOODED OR SHRUB AREA RIGHT-OF-WAY MARKERS

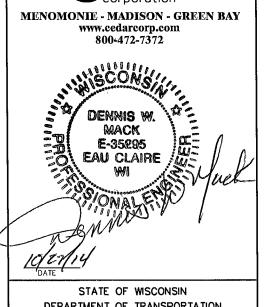
MARCH 2015 ORDER OF SHEETS	STATE OF WISCONSIN
Sheet No. 1 Title Sheet No. 2 Typical Sections, Details & E Sheet No. 3 Estimate of Quantities Sheet No. 3 Miscellaneous Quantities	rosion Control Plan DEPARTMENT OF TRANSPORTATION
Sheet No. 4 Right—of—Way Plat Sheet No. 5 Plan and Profile Sheet No. 6 Standard Detail Drawings	PLAN OF PROPOSED IMPROVEMENT
Sheet No. 7 Sign Plates Sheet No. 8 Structure Plans Sheet No. 9 Computer Earthwork Data Sheet No. 9 Cross—Sections	TOWN OF WHITESTOWN, 24 VALLEY ROAD
TOTAL SHEETS = 32	WEISTER CREEK BRIDGE B-62-0048
urist 0	TOWN ROAD
	VERNON COUNTY
	STATE PROJECT NUMBER 5409-00-71
PROJECT LOCATION	END PROJECT STA 11+00 Y - 181846.72 X - 760899.24
DESIGN DESIGNATION AADT (2014) = 65	Weister 28 28 26 STRUCTURE I
AADT (2034) = 79 DHV (2034) = 10 D (%) = 50/50 T (% OF ADT) = 10% DESIGN SPEED = 25 MPH ESALS =	Dell 31 Rockton Note of the state of the st
CONVENTIONAL SYMBOLS PLAN	Y - 181769.83
PROPERTY LINE	
LOT LINE	ARSH OR ROCK PROFILE ROCK INGDALERD BSTERS STARK
EXISTING RIGHT OF WAY	TO INCH ARRISED TO HARRISED TO
PROPOSED OR NEW R/W LINE GI	RADE ELEVATION RADE TIENTON LaFarce REPART OF LAFARCE
	ULVERT (Profile View)

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5409-00-71 WISC 2015116 1

B-62-0048

ECT

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), VERNON COUNTY.



ACCEPTED FOR TOWN OF WHITESTOWN

ORIGINAL PLANS PREPARED BY

ACCEPTED FOR VERNON, COUNTY COUNTY COMMISSIONER

DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor CEDAR CORPORATION Designer CEDAR CORPORATION

Management Consultant KJOHNSON ENGINEERS, INC.

R3W

R2W

PLOT BY : GUST JUNTTILA

UTILITIES

OVERHEAD LINES

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

占

STORM SEWER

TELEPHONE

POWER POLE

WATER

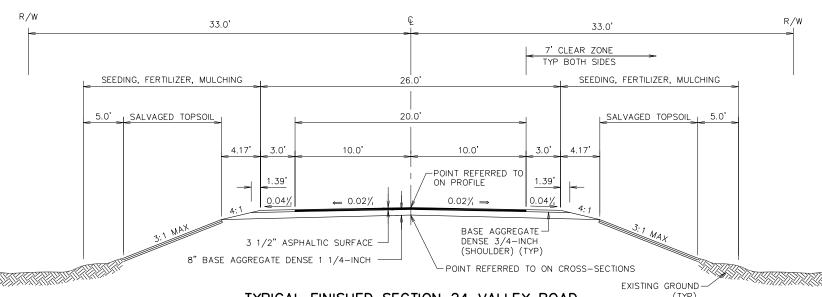
FIBER OPTIC

GAS

TOTAL NET LENGTH OF CENTERLINE = 0.038 MI

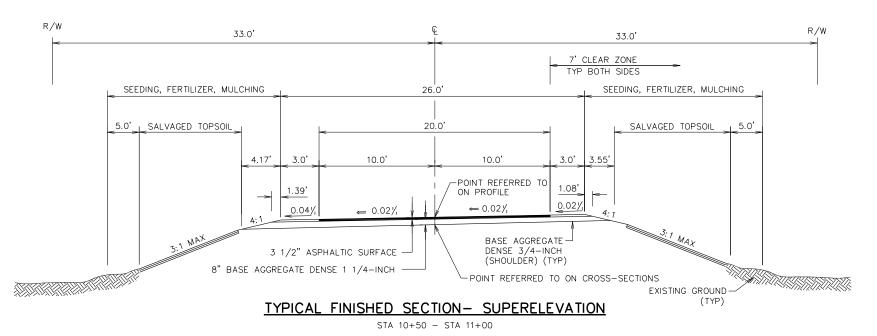
LAYOUT

EXISTING TYPICAL SECTION 24 VALLEY ROAD



TYPICAL FINISHED SECTION 24 VALLEY ROAD

STA 9+00 - STA 9+66 STA 10+33 - STA 10+50



DNR LIAISON

DNR SERVICE CENTER
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
(608) 785-9115
KAREN KALVELAGE
koren.kalvelage@wisconsin.gov

DESIGN CONSULTANT

CEDAR CORPORATION 604 WILSON AVENUE MENOMONIE, WI 54751 (715) 235-9081 TROY L. PETERSON, PE troy.peterson@cedarcorp.com

VERNON COUNTY

VERNON CO. HIGHWAY DEPARTMENT 602 NORTH MAIN STREET VIROQUA, W 54665 (608) 637-5452 PHIL HEWITT phil.heweitt@vernoncounty.org

TOWN OF WHITESTOWN

WHITESTOWN TOWN HALL S1701 SANDHILL ROAD LAFARGE, WI 54639 (608) 625-2367 JIM LEE jkrjlee@mwt.net

UTILITIES

VERNON ELECTRIC COOPERATIVE 110 NORTH MAIN STREET WESTBY, W 54667 (608) 634-3121 CRAIG BUROS cburos@vernonelectric.org

VERNON TELEPHONE COOPERATIVE 103 NORTH MAIN STREET WESTBY, W 54667 (608) 634-3136 TODD TUNKS ttunks@vernontel.com

Dial or (800) 242-8511

www.DiggersHotline.com

** DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

TYPICAL SECTIONS & GENERAL NOTES

GENERAL NOTES

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

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

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS, BUT IS MEASURED AND PAID FOR AS EXCAVATION COMMON. THE LOCATION OF EBS WILL BE DETERMINED BY THE ENGINEER.

SHRINKAGE IS ESTIMATED AT 25%.

THE 3 1/2" ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 1 3/4" LOWER LAYER AND A 1 3/4" UPPER LAYER. USE 1/2" NOMINAL AGGREGATE FOR ASPHALT SURFACE

BEARINGS REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), VERNON COUNTY.

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE FERTILIZED AND SEEDED AS DIRECTED BY THE ENGINEER. USE SEED MIX NO. 10.

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

THE BENCHMARK IS REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), VERNON COUNTY.

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

TO PREVENT TURTLES FROM GETTING TRAPPED IN THE RIPRAP, FILL ALL VOIDS USING 1 TO 3-INCH STONE.

STANDARD ABBREVIATIONS

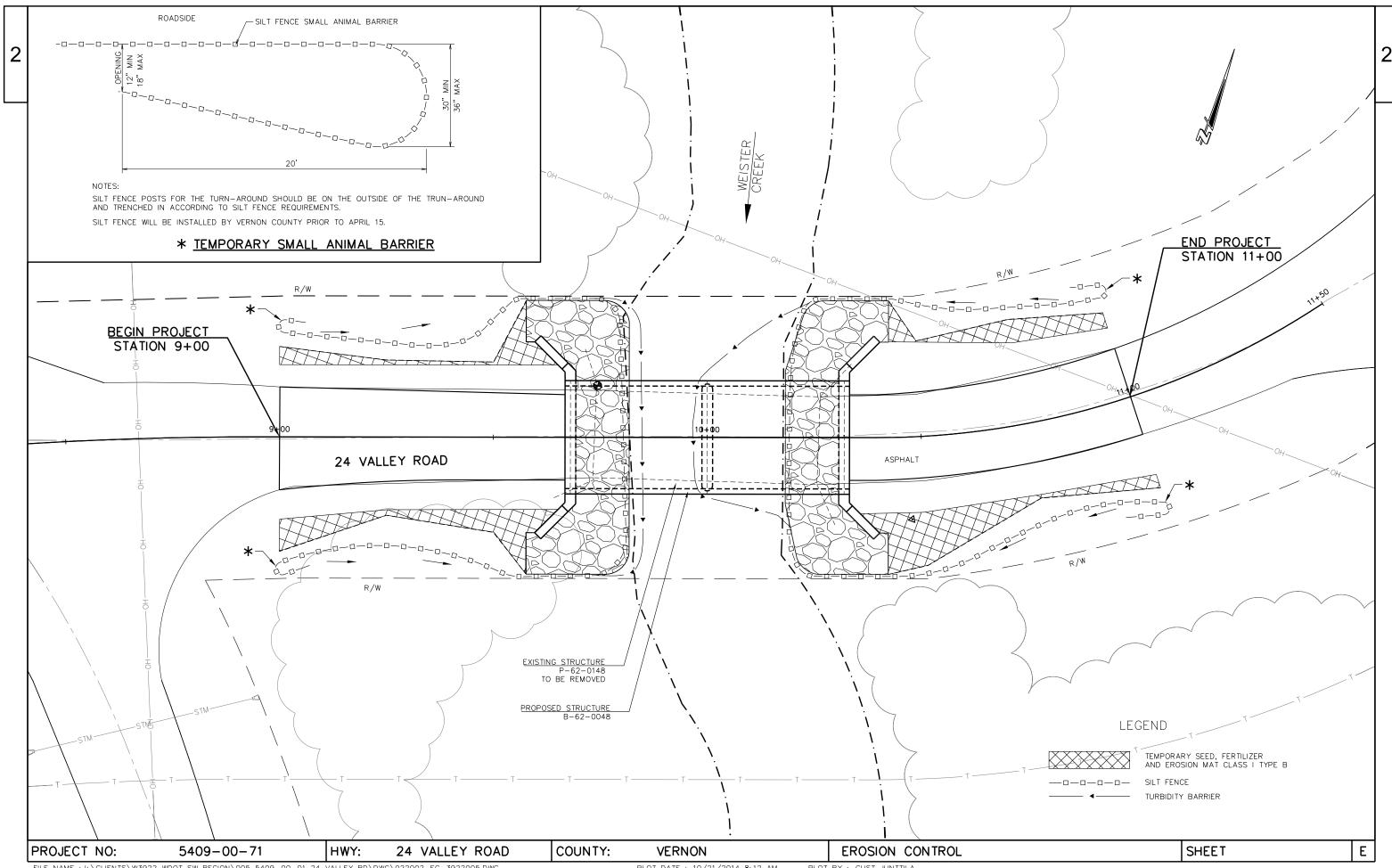
ABUTMENT

7001	ADOTIVILAT		
4GG	AGGREGATE	PC	POINT OF CURVATURE
ET AL	AND OTHERS	PI	POINT OF INTERSECTION
AADT	ANNUAL AVERAGE DAILY TRAFFIC	PT	POINT OF TANGENCY
3F	BACK FACE	POL	POINT ON LINE
ВМ	BENCHMARK	PE	PRIVATE ENTRANCE
	CENTERLINE	PL	PROPERTY LINE
Á	CENTRAL ANGLE OR DELTA	PSI	POUNDS/SQUARE INCH
CLR	CLEAR	PROP	PROPOSED
CONC	CONCRETE	R	RADIUS
CONST	CONSTRUCTION	RR	RAILROAD
COR	CORNER	REBAR	REINFORCEMENT BAR
CMP	CORRUGATED METAL PIPE	REQD	REQUIRED
OTH .	COUNTY TRUNK HIGHWAY	RT	RIGHT
OR .	CREEK	RHF	RIGHT-HAND FORWARD
CFS	CUBIC FEET/SECOND	R/W	RIGHT-OF-WAY
CULV	CULVERT	RD RD	ROAD
)	DEGREE OF CURVE	SEC	SECTION
DHV	DESIGN HOUR VOLUME	S	SOUTH
DIA	DIAMETER	SE	SOUTHEAST
	EAST	SW	SOUTHWEST
E EL	ELEVATION	STH	STATE TRUNK HIGHWAY
ST	ESTIMATED	STA	STATION
-ST PS	FEET PER SECOND	SE	SUPER ELEVATION
E	FIELD ENTRANCE	T	TANGENT
Ţ	FOOT (FEET)	TFI	TELEPHONE
TG	FOOTING	TEMP	TEMPORARY
-DN	FOUNDATION	TI	TEMPORARY INTEREST
F	FRONT FACE	TLE	TEMPORARY LIMITED EASEMENT
P	IRON PIN		TRANSIT LINE
_T	LEFT	T OK 1/L	TRUCKS
- ' _HF	LEFT-HAND FORWARD	TYP	TYPICAL
	LENGTH OF CURVE	U/G	UNDERGROUND
- _F	LINEAR FOOT	USH	UNITED STATES HIGHWAY
_r √IAX	MAXIMUM	VAR	VARIABLE
via A VII	MILE	VAR	VELOCITY
VIIN	MINIMUM	V VPC	VERTICAL POINT OF CURVATURE
VIIIN VC		VPC	VERTICAL POINT OF CORVATORE VERTICAL POINT OF INTERSECTION
	NORMAL CROWN	VPT	
V	NORTH		VERTICAL POINT OF TANGENCY
NE.	NORTHEAST	W	WEST
W.	NORTHWEST	YD	YARD
40	NUMBER		

VERNON

COUNTY:

Ε



DATE 23	BDEC14	E S	STIMATE	OF QUAN	
LINE					5409-00-71
NUMBER	I TEM	I TEM_DESCRIPTION	UNI T	TOTAL	QUANTI TY
0010	201. 0105	Clearing	STA	1.000	1.000
0020	201. 0205	Grubbi ng	STA	1.000	1.000
0030	203. 0600. 3	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 10+00	LS	1. 000	1. 000
0040	205. 0100	Excavation Common **P**	CY	111. 000	111. 000
0050	206. 1000	Excavation for Structures Bridges	LS	1. 000	1. 000
0030	200. 1000	(structure) 01. B-62-0048	LS	1.000	1.000
		(Structure) 01. B-02-0046			
0060	210. 0100	Backfill Structure	CY	280. 000	280. 000
0070	213. 0100	Finishing Roadway (project) 01.	EACH	1. 000	1. 000
0070	2.0.0.00	5409-00-71	27.0		
0800	305.0110	Base Aggregate Dense 3/4-Inch	TON	23.000	23.000
0090	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	206.000	206.000
0100	465.0105	Asphal ti c Surface	TON	64.000	64.000
		•			
0110	502.0100	Concrete Masonry Bridges	CY	200.000	200.000
0120	502. 3200	Protective Surface Treatment	SY	230. 000	230. 000
0130	505.0405	Bar Steel Reinforcement HS Bridges	LB	6, 090. 000	6, 090. 000
0140	505.0605	Bar Steel Reinforcement HS Coated	LB	24, 360. 000	24, 360. 000
		Bri dges			
0150	513. 4060	Railing Tubular Type M (structure) 01.	LS	1. 000	1. 000
		B-62-0048			
01/0	F1/ 0500	Dubbani and Mambana Watana Cir	CV	11 000	11 000
0160	516. 0500	Rubberi zed Membrane Waterproofing	SY	11. 000	11.000
0170 0180	550. 0500 550. 1100	Pile Points	EACH LF	17.000	17. 000
0180	550. 1100 606. 0400	Piling Steel HP 10-Inch X 42 Lb Riprap Extra-Heavy	CY	425. 000 155. 000	425. 000 155. 000
0200	612. 0406	Pipe Underdrain Wrapped 6-Inch	LF	160. 000	160. 000
0200	012.0400	Pripe underdrain wrapped 6-inch	LF	100.000	100.000
0210	619. 1000	Mobilization	EACH	1. 000	1. 000
0220	624. 0100	Water	MGAL	3. 000	3. 000
0230	625. 0500	Sal vaged Topsoi I **P**	SY	120. 000	120. 000
0240	627. 0200	Mul chi ng **P**	SY	400. 000	400. 000
0250	628. 1504	Silt Fence	LF	300.000	300.000
0260	628. 1520	Silt Fence Maintenance	LF	800.000	800.000
0270	628. 1905	Mobilizations Erosion Control	EACH	3.000	3.000
0280	628. 1910	Mobilizations Emergency Erosion Control	I EACH	3.000	3.000
0290	628. 2004	Erosion Mat Class I Type B	SY	120.000	120.000
0300	628. 6005	Turbi di ty Barri ers	SY	205. 000	205. 000
0310	629. 0210	Fertilizer Type B	CWT	0. 400	0. 400
0320	630. 0110	Seeding Mixture No. 10 **P**	LB	13. 000	13.000
0330	630. 0200	Seeding Temporary **P**	LB	13. 000	13. 000
0340	634. 0612	Posts Wood 4x6-Inch X 12-FT	EACH	4. 000	4. 000
0350	637. 2230	Signs Type II Reflective F	SF	12. 000	12. 000
0240	420 2402	Demoving Ciano Type II	FACIL	4 000	4 000
0360	638. 2602	Removing Signs Type II Removing Small Sign Supports	EACH	4.000	4. 000
0370	638. 3000 642. 5001		EACH	4.000	4. 000
0380 0390	643. 0100	Field Office Type B	EACH 71 EACH	1. 000 1. 000	1. 000 1. 000
0400	643. 0420	Traffic Control (Project) 01. 5409-00-7 Traffic Control Barricades Type Iii	DAY	1, 458. 000	1, 458. 000
0400	043.0420	Traffic control barricades Type III	DAT	1, 436. 000	1, 436. 000
0410	643. 0705	Traffic Control Warning Lights Type A	DAY	2, 916. 000	2, 916. 000
0410	643. 0900	Traffic Control Signs	DAY	1, 134. 000	1, 134. 000
0430	645. 0120	Geotextile Fabric Type Hr	SY	290. 000	290. 000
0440	650. 4500	Construction Staking Subgrade	LF	133. 000	133. 000
0450	650. 5000	Construction Staking Base	LF	133. 000	133. 000
3.00	300. 3000				
0460	650. 6500	Construction Staking Structure Layout	LS	1. 000	1.000
		(Structure) 01. B-62-0048			
0470	650. 9910	Construction Staking Supplemental	LS	1. 000	1. 000
		Control (Project) 01. 5409-00-71			
0480	650. 9920	Construction Staking Slope Stakes	LF	133.000	133.000
		- ·			

DATE 23	DEC14	E S	TIMAT	E OF QUAN	
LINE					5409-00-71
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0490	690. 0150	Sawing Asphalt	LF	45.000	45.000
0500	715. 0502	Incentive Strength Concrete Structures	DOL	1, 200. 000	1, 200. 000
0510	SPV. 0195	Special O1. Select Crushed Material For Travel Corridor Interstitial Space	TON	94.000	94.000

Division	From/To Station	Location	205.0100 Common Excavation (CY) **P**	Salvaged/Unus able Pavement Material		Unexpanded Fill	Expanded Fill Factor 1.25	Mass Ordinate +/- (3)	208.0100 Borrow (CY)	Waste (CY)
	1 9+00 - 9+50	MAINLINE WEST	57	4	53	1	1	52	0	56
Division 1 Subtotal			57	4	53	1	1	52	0	56
	2 10+50 - 11+00	MAINLINE EAST	55	4	51	2	2	49	0	53
Division 2 Subtotal			55	4	51	2	2	49	0	53
Grand Total			111	7	104	2	3		0	108
		Total Common Ex	111						0	108

- 1) Cut includes Salvaged/Unusuable Pavement Material
- 2) Available Material = Cut Salvaged/Unusuable Pavement Material
- 3) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division and is catagorized as waste. Minus indicates a shortage of material within the Division and is catagorized as borrow Item Number 208.0100.

FINISHING ROADWAY	FIELD OFFICE TYPE B
FINISHING ROADWAY	TILLE OF THE B

					642.5001	
		213.0100	PROJECT	LOCATION	EACH	
STATION - STATION	LOCATION	EACH	5409-00-71	MAINLINE	1	
9+00 - 11+00	MAINLINE	1	TOTA	L	1	
TOTAL		1				

MOBILIZATION

	CLEARING & GRUB	BING			
		201.0105 CLEARING	201.0205 GRUBBING		PRO
STATION - STATION	LOCATION	STA.	STA.		CATEG
9+15-9+70, 10+40-10+50	MAINLINE	1	1		CATEG
TOTAL		1	1	:	

		619.1000
PROJECT	LOCATION	EACH
CATEGORY 0020 CATEGORY 0010	MAINLINE MAINLINE	0.82 0.18
TOTAL		1

			624.0100
_	STATION - STATION	LOCATION	MGAL
	9+00 - 11+00	MAINLINE	3
-	TOTAL	3	

WATER

ASPHALTIC SURFACE

		465.0105
STATION - STATION	LOCATION	TON
9+00 - 9+66	MAINLINE WEST	32
10+33 - 11+00	MAINLINE EAST	32
	TOTAL	64

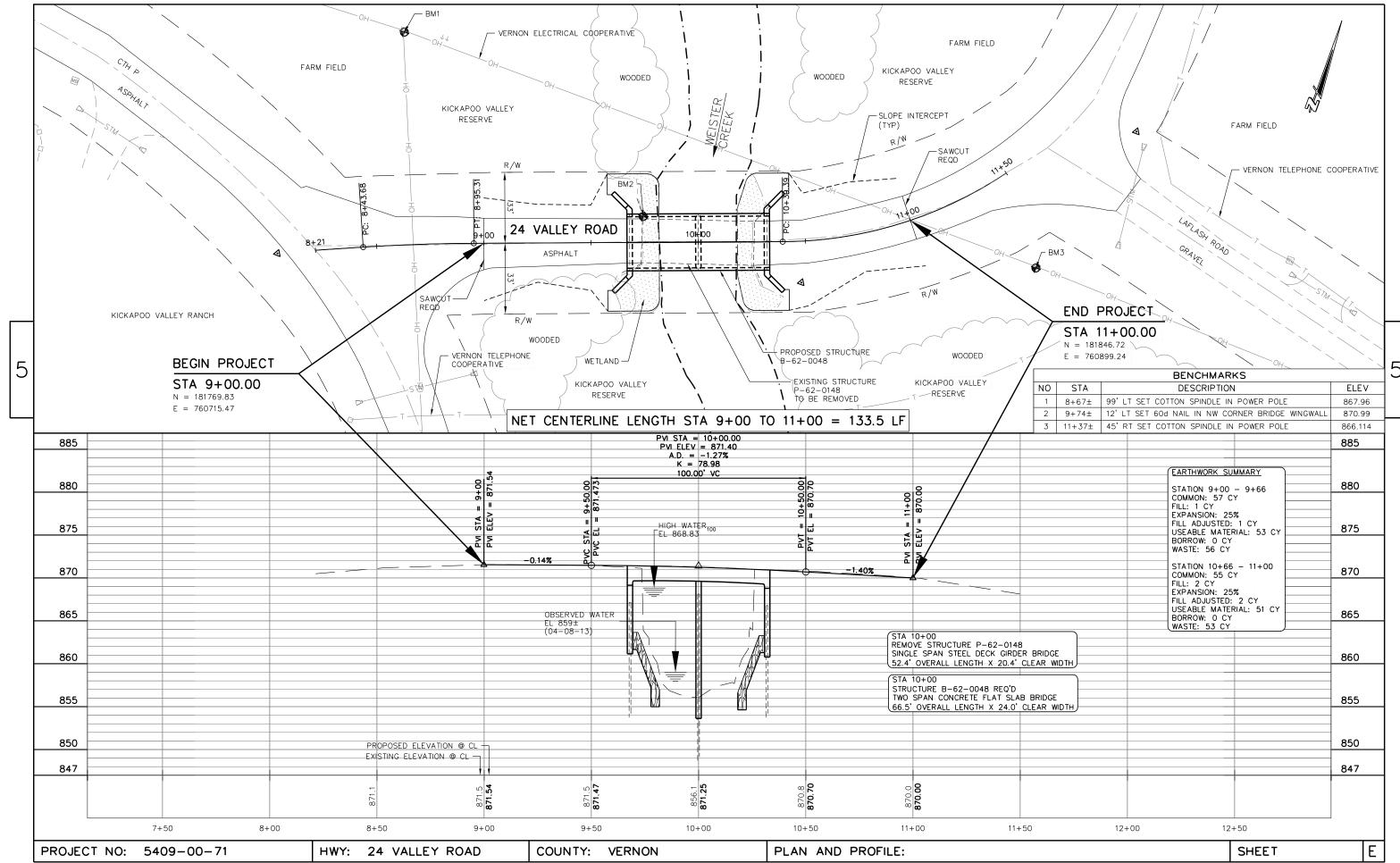
BASE AGGREGATE DENSE

		305.0110	305.0120
		3/4 - INCH	1 1/4 - INCH
STATION - STATION	LOCATION	TON	TON
9+00 - 9+66	MAINLINE	11	100
10+33 + 11+00	MAINLINE	12	106
TOTAL		23	206

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

PROJECT NO: 5409-00-71 HWY: 24 VALLEY ROAD COUNTY: VERNON MISCELLANEOUS QUANTITIES SHEET **E**

UNLESS OTHERWISE NOTED.			(20,0200		/20 1520	/20.2004	/20 1005	/20 1010				550705	A TION ITEMS		
			630.0200 SEEDING	628.1504	628.1520 SILT FENCE	628.2004 EROSION MAT	628.1905 MOBILIZATIONS	628.1910 MOBILIZATION EMERGENCY				RESTOR	ATION ITEMS		
					MAINTENANCE			EROSION CONTROL				625.050	00	629.0210	630.0110
			P									SALVAG			SEEDING MIXTURE
	STATION - STATION	LOCATION	LB	LF	LF	SY	EACH	EACH				TOPSO **P**		G TYPE B	NO. 10 **P**
	9+00 - 9+66	LT	3		150	20			ς	TATION - STATION	LOCATION	·	SY	CWT	LB
	9+00 - 9+66	RT	3		150	35					_				<u> </u>
	10+33 - 11+00	LT	3		150	22				9+00 - 9+66 9+00 - 9+66	LT RT	20 35	85 100	0.1 0.1	3
	10+33 - 11+00	RT	4		150	43				10+33 - 11+00	LT	22	97	0.1	3
		MAINLINE					3	3		10+33 - 11+00	RT	43	118	0.1	4
	UNDISTRIBUTED			300	200				_						
	TOTAL		13	300	800	120	3	3		TOTAL		120	400	0.4	13
		637.2230 SIGNS TYPE II	634.0612 POSTS WC	OOD REMC		MOVING SMALL							SAWING A		
	LOCATION		POSTS WO	OOD REMC	OVING SIGNS REM	IN SUPPORTS	DESCRIPTION	LOCATION	ABUTMENT	628.6005 SY		STAT			690.0150 LF
	NW BRIDGE CORNER	SIGNS TYPE II REFLECTIVE F SF 3.00	POSTS WO	OOD REMC	OVING SIGNS REM TYPE II SIG	EACH 1	W5-52 L	MAINLINE	WEST	SY 100		9+	ION L 00 BEG	OCATION	LF25
	NW BRIDGE CORNER	SIGNS TYPE II REFLECTIVE F SF 3.00 3.00	POSTS WO	OOD REMC	OVING SIGNS REM TYPE II SIG EACH	EACH 1 1	W5-52 L W5-52 R	-		SY			ION L 00 BEG	OCATION	LF
	NW BRIDGE CORNER SW BRIDGE CORNER NE BRIDGE CORNER	SIGNS TYPE II REFLECTIVE F SF 3.00 3.00 3.00 3.00	POSTS WO	OOD REMC	OVING SIGNS REM TYPE II SIG EACH 1 1 1	EACH 1 1 1	W5-52 L W5-52 R W5-52 R	MAINLINE	WEST EAST	SY 100		9+	ION L 00 BEG	OCATION	LF25
	NW BRIDGE CORNER	SIGNS TYPE II REFLECTIVE F SF 3.00 3.00 3.00 3.00	POSTS WO	OOD REMC	OVING SIGNS REM TYPE II SIG EACH	EACH 1 1 1	W5-52 L W5-52 R	MAINLINE MAINLINE	WEST EAST	100 105		9+	ION L 00 BEG 00 EN	OCATION	LF 25 20
	NW BRIDGE CORNER SW BRIDGE CORNER NE BRIDGE CORNER	SIGNS TYPE II REFLECTIVE F SF 3.00 3.00 3.00 3.00 3.00	POSTS WO	OOD REMC	OVING SIGNS REM TYPE II SIG EACH 1 1 1	EACH 1 1 1	W5-52 L W5-52 R W5-52 R	MAINLINE MAINLINE	WEST EAST	100 105		9+	ION L 00 BEG 00 EN	OCATION	LF 25 20
	NW BRIDGE CORNER SW BRIDGE CORNER NE BRIDGE CORNER SE BRIDGE CORNER	SIGNS TYPE II REFLECTIVE F SF 3.00 3.00 3.00 3.00 3.00	POSTS WC 4X6-INCH X EACH 1 1 1 4	OOD REMC	EACH 1 1 1 1	EACH 1 1 1 1	W5-52 L W5-52 R W5-52 R	MAINLINE MAINLINE	WEST EAST	100 105	CON	9+	ION L 00 BEG 00 EN	OCATION	LF 25 20 45
	NW BRIDGE CORNER SW BRIDGE CORNER NE BRIDGE CORNER SE BRIDGE CORNER	SIGNS TYPE II REFLECTIVE F SF 3.00 3.00 3.00 12.00	POSTS WC 4X6-INCH X EACH 1 1 1 4 TRAFFI 64	C CONTROL	EACH 1 1 1 4	EACH 1 1 1 1 4	W5-52 L W5-52 R W5-52 R W5-52 L	MAINLINE MAINLINE	WEST EAST	100 105	COM	9+	ION L 00 BEG 00 EN TOTAL	OCATION	25 20 45 CATEGORY 0020
	NW BRIDGE CORNER SW BRIDGE CORNER NE BRIDGE CORNER SE BRIDGE CORNER	SIGNS TYPE II REFLECTIVE F SF 3.00 3.00 3.00 12.00 643.0420 TRAFFIC CONTR	POSTS WC 4X6-INCH X EACH 1 1 1 4 TRAFFI 64 OL TRAFFI	C CONTROL 3.0705 C CONTROL	EACH 1 1 1 4 643.0900	EACH 1 1 1 1 4	W5-52 L W5-52 R W5-52 R W5-52 L	MAINLINE MAINLINE	WEST EAST	100 105	CON	9+ 11+0	ION L 00 BEG 00 EN	OCATION	LF 25 20 45
	NW BRIDGE CORNER SW BRIDGE CORNER NE BRIDGE CORNER SE BRIDGE CORNER	SIGNS TYPE II REFLECTIVE F SF R 3.00 R 3.00 R 3.00 R 3.00 R 3.00 T2.00 643.0420 TRAFFIC CONTR BARRICADES	POSTS WC 4X6-INCH X EACH 1 1 1 4 TRAFFI 64 OL TRAFFI WARNI	C CONTROL 3.0705 C CONTROL NG LIGHTS	EACH 1 1 1 4 643.0900 TRAFFIC CONTR	EACH 1 1 1 1 4 643.0	W5-52 L W5-52 R W5-52 R W5-52 L	MAINLINE MAINLINE	WEST EAST	SY 100 105 205		9+ 11+0	ION L 00 BEG 00 EN TOTAL TAKING 650.9910	OCATION IN PROJECT D PROJECT	LF 25 20 45 CATEGORY 0020 650.6500
	NW BRIDGE CORNER SW BRIDGE CORNER SE BRIDGE CORNER TOTAL	SIGNS TYPE II REFLECTIVE F SF 3.00 3.00 3.00 12.00 643.0420 TRAFFIC CONTR BARRICADES TYPE III	POSTS WC 4X6-INCH X EACH 1 1 1 4 TRAFFI 64 OL TRAFFIC WARNI T	C CONTROL 3.0705 C CONTROL NG LIGHTS YPE A	EACH 1 1 1 1 4 643.0900 TRAFFIC CONTR	EACH 1 1 1 1 4 643.0 COL TRAFFIC C 5409-0	W5-52 L W5-52 R W5-52 R W5-52 L 100 CONTROL 0-71	MAINLINE TOT	WEST EAST	SY 100 105 205	650.4500	9+ 11+(ION L OO BEG OO EN TOTAL TAKING 650.9910 SUPPLEMENTAL	OCATION IN PROJECT D PROJECT 650.9920	LF 25 20 45 CATEGORY 0020 650.6500 STRUCTURE LAYOUT
	NW BRIDGE CORNER SW BRIDGE CORNER SE BRIDGE CORNER TOTAL LOCATION	SIGNS TYPE II REFLECTIVE F SF 3.00 3.00 3.00 3.00 12.00 643.0420 TRAFFIC CONTR BARRICADES TYPE III DAY	POSTS WC 4X6-INCH X EACH 1 1 1 4 TRAFFI 64 OL TRAFFIC WARNI T	C CONTROL 3.0705 C CONTROL NG LIGHTS YPE A DAY	OVING SIGNS REM TYPE II SIG EACH 1 1 1 1 4 643.0900 TRAFFIC CONTR SIGNS DAY	EACH 1 1 1 1 4 643.0	W5-52 L W5-52 R W5-52 R W5-52 L 100 CONTROL 0-71	MAINLINE TOT	WEST	SY 100 105 205	650.4500 SUBGRADE	9+ 11+(STRUCTION ST 650.5000	ION L 00 BEG 00 EN TOTAL TAKING 650.9910 SUPPLEMENTAL CONTROL	OCATION IN PROJECT D PROJECT 650.9920 SLOPE STAKES	LF 25 20 45 CATEGORY 0020 650.6500 STRUCTURE LAYOUT B-62-0048
	NW BRIDGE CORNER SW BRIDGE CORNER SE BRIDGE CORNER TOTAL	SIGNS TYPE II REFLECTIVE F SF R 3.00 R 3.00 R 3.00 R 3.00 R 3.00 T2.00 643.0420 TRAFFIC CONTR BARRICADES TYPE III DAY 1458	POSTS WC 4X6-INCH X EACH 1 1 1 4 TRAFFI 64 OL TRAFFIC WARNI T	C CONTROL 3.0705 C CONTROL NG LIGHTS YPE A	EACH 1 1 1 1 4 643.0900 TRAFFIC CONTR	EACH 1 1 1 1 4 643.0 COL TRAFFIC C 5409-0	W5-52 L W5-52 R W5-52 R W5-52 L 100 CONTROL 0-71	MAINLINE TOT	WEST EAST AL STATION - STATION	SY 100 105 205	650.4500 SUBGRADE LF	9+ 11+(STRUCTION ST 650.5000 BASE LF	ION L 00 BEG 00 EN TOTAL TAKING 650.9910 SUPPLEMENTAL CONTROL LS	OCATION IN PROJECT D PROJECT 650.9920 SLOPE STAKES LF	LF 25 20 45 CATEGORY 0020 650.6500 STRUCTURE LAYOUT B-62-0048 LS



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-07	SIGNING & MARKING FOR TWO LANE BRIDGES

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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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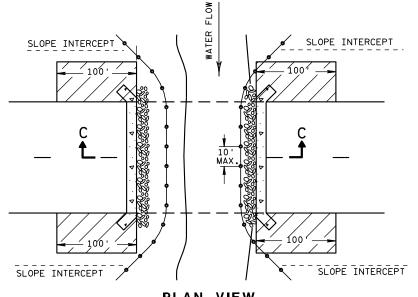
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GENERAL NOTES

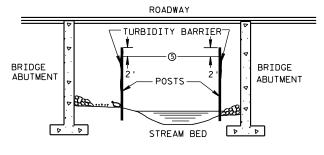
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

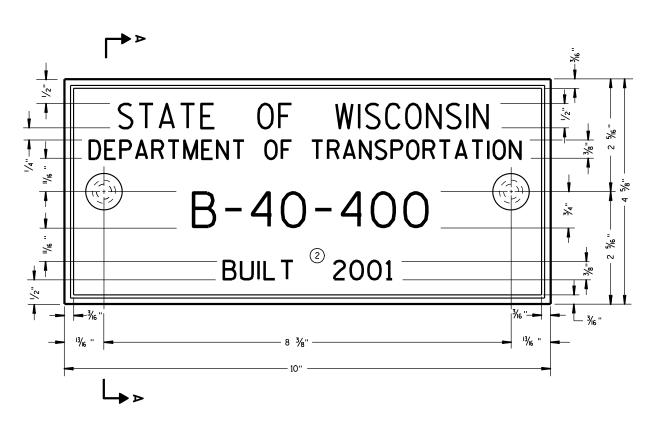
APPROVED

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

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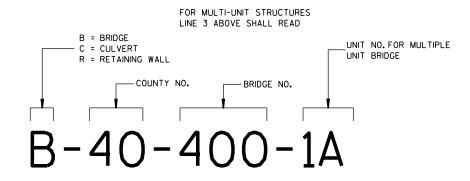
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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



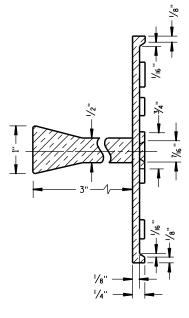
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

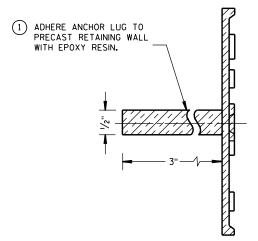
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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



BRIDGE ROAD 1)TWO-WAY **CLOSED** TYPE "A" WARNING LIGHTS REQUIRED OUTSIDE EDGE OF SHOULDER OUTSIDE EDGE OF SHOULDER OR FACE OF CURB OR FACE OF CURB **DETAIL D**

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



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.

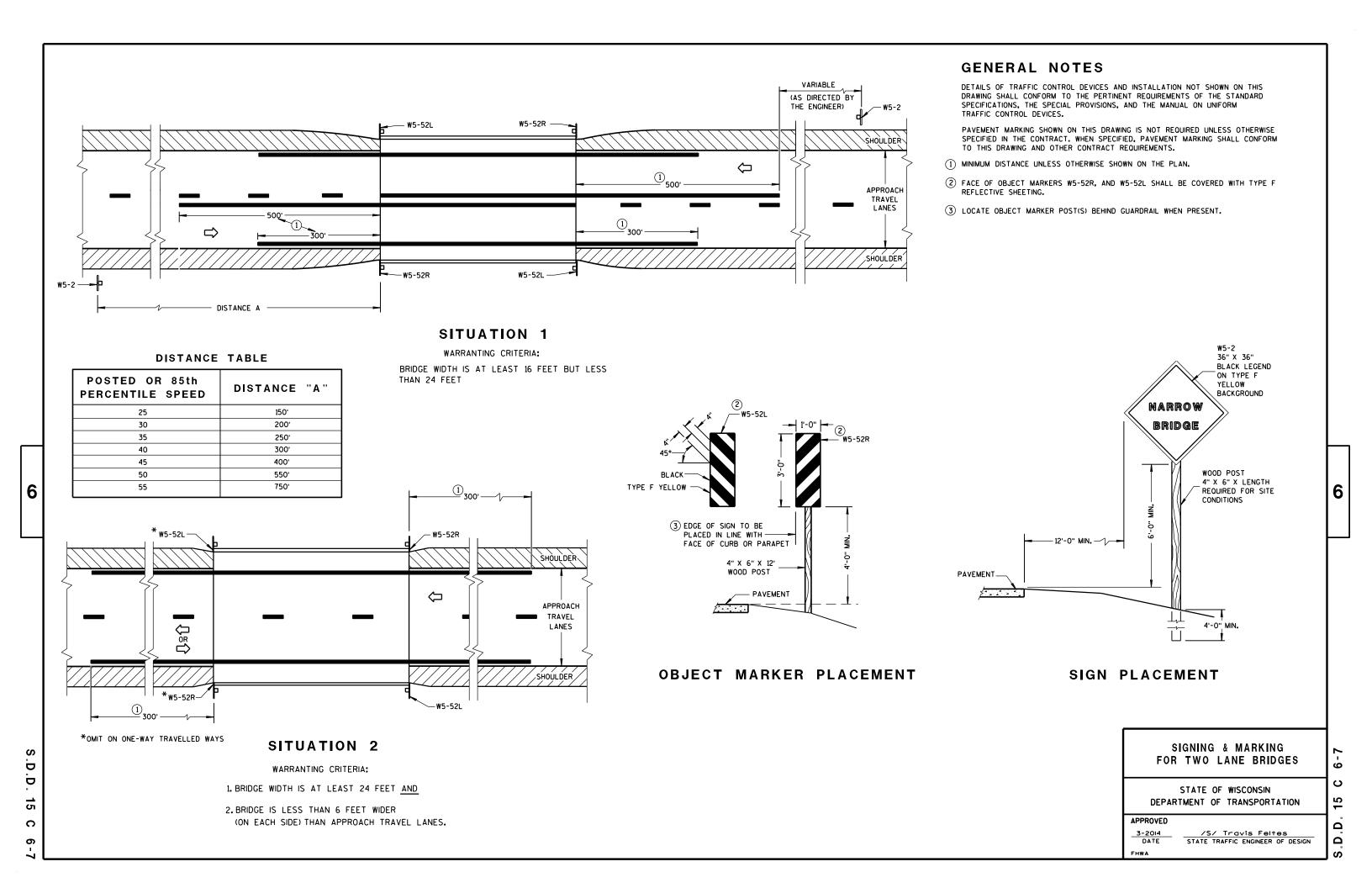
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

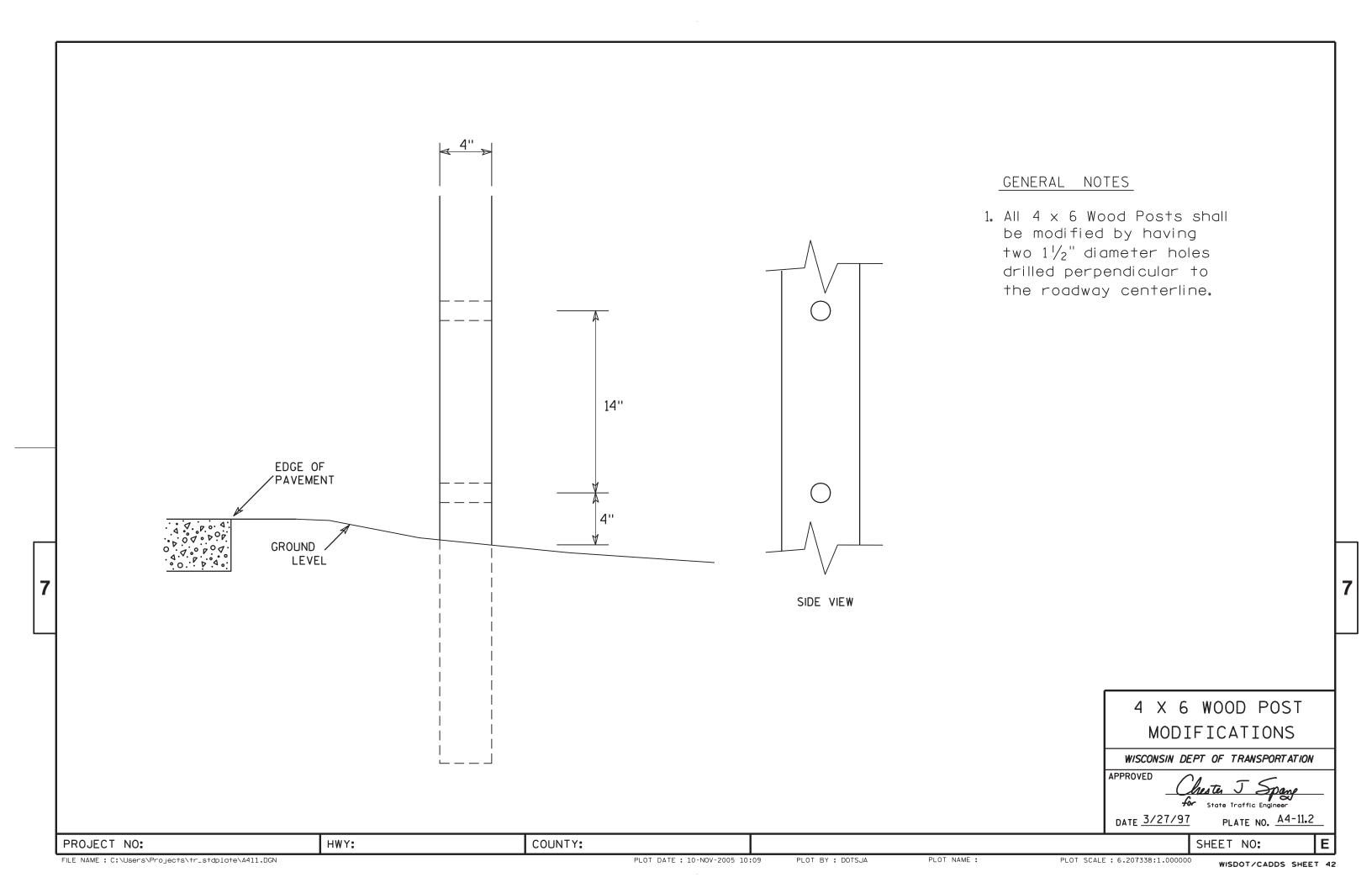
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

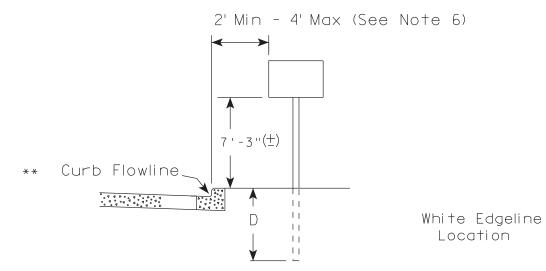
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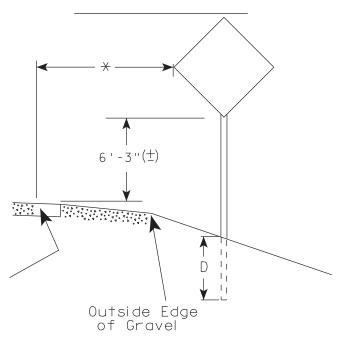




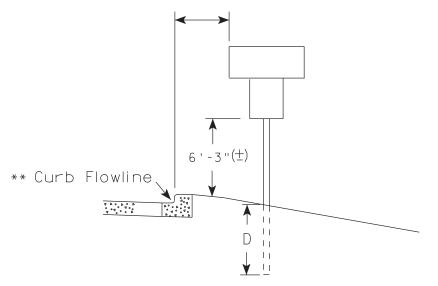
URBAN ARFA



RURAL AREA (See Note 2)



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



5'-3"(生) White Edgeline D IILocation Outside Edae 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.

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 (A4-5) 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" (+).
- 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 stop signs (R1-1F) shall be mounted at a height of 5'-3" (+) or as directed 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) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

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

PLOT NAME :

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

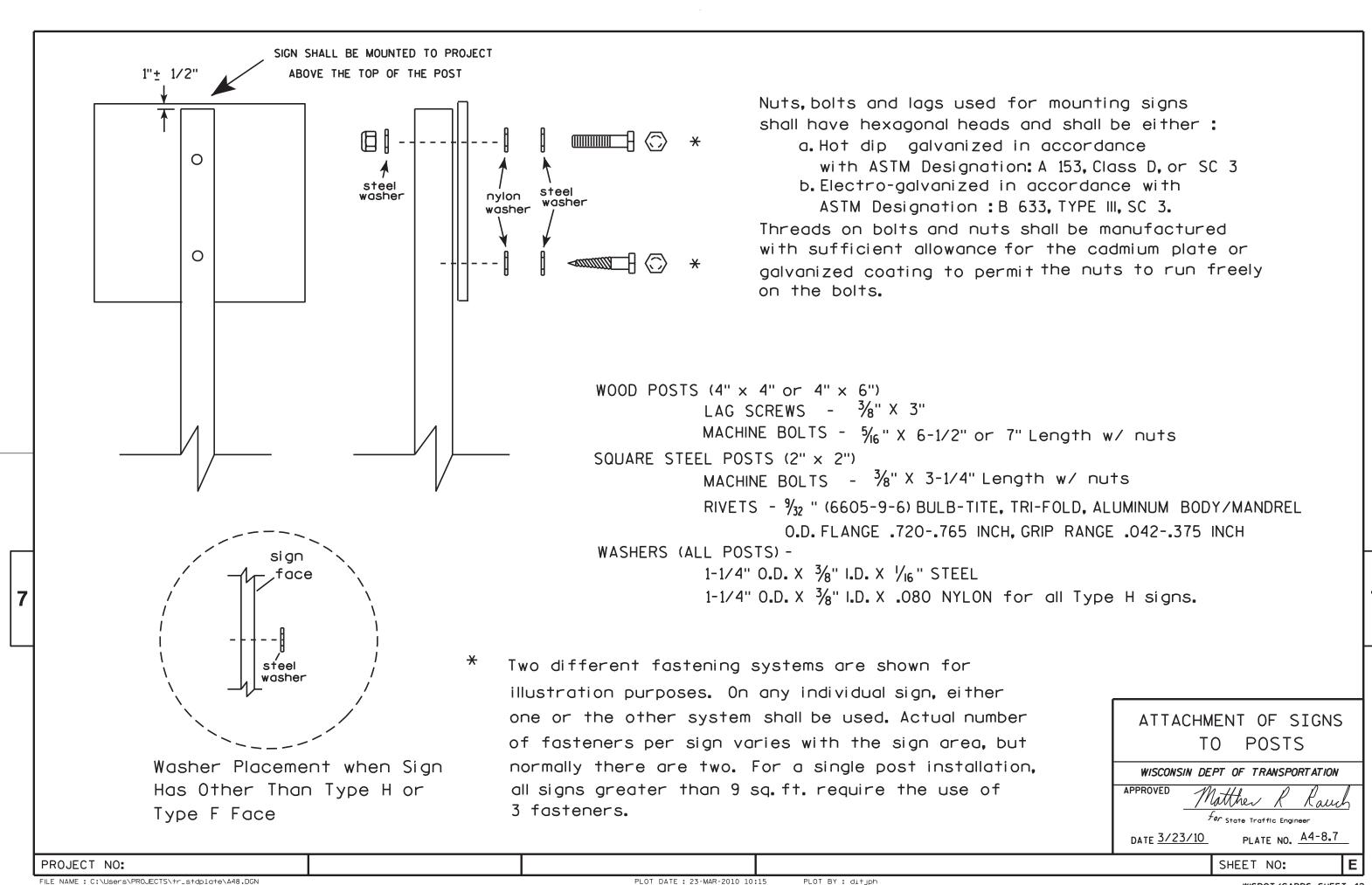
DATE 9/30/13

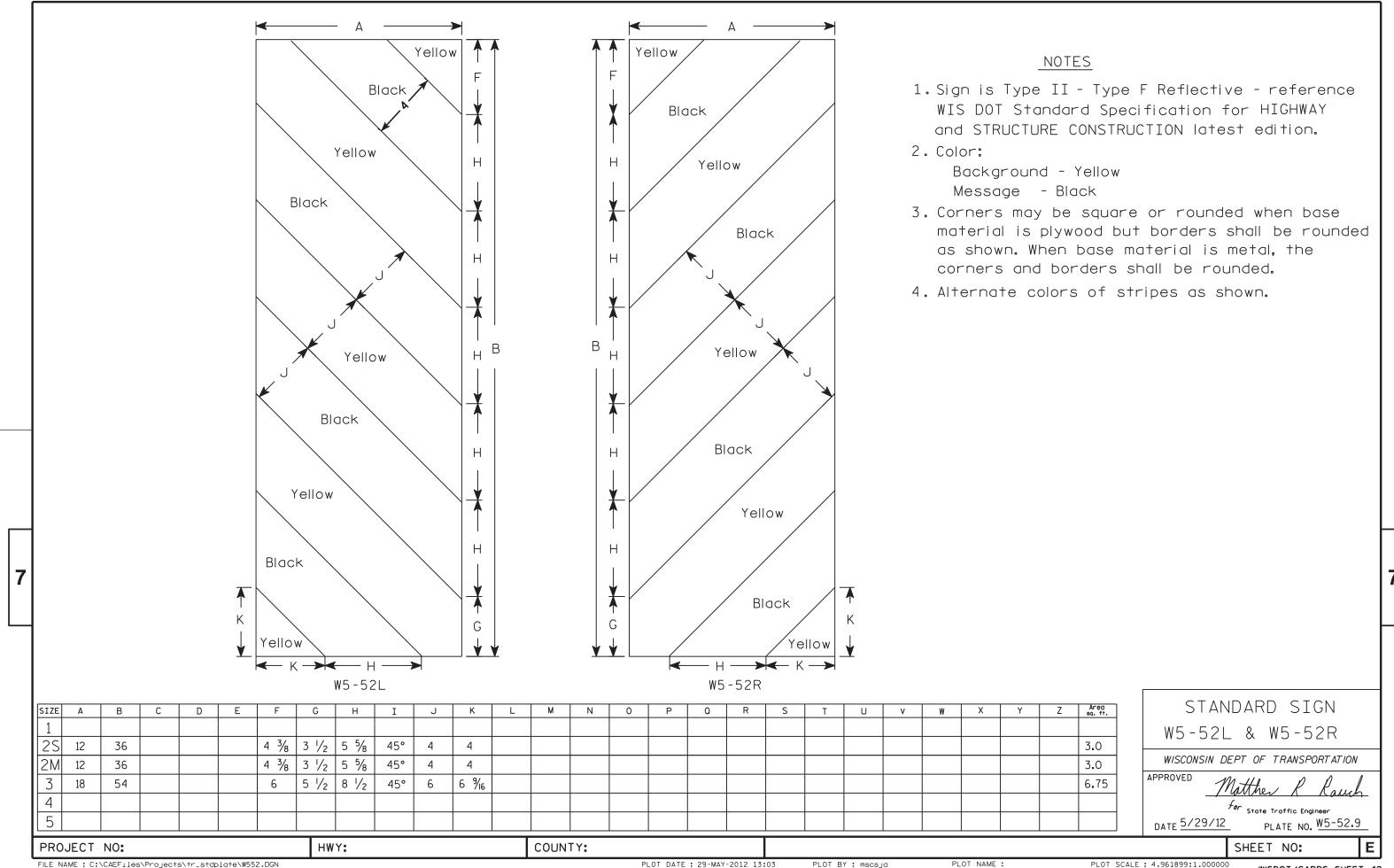
PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN COUNTY:

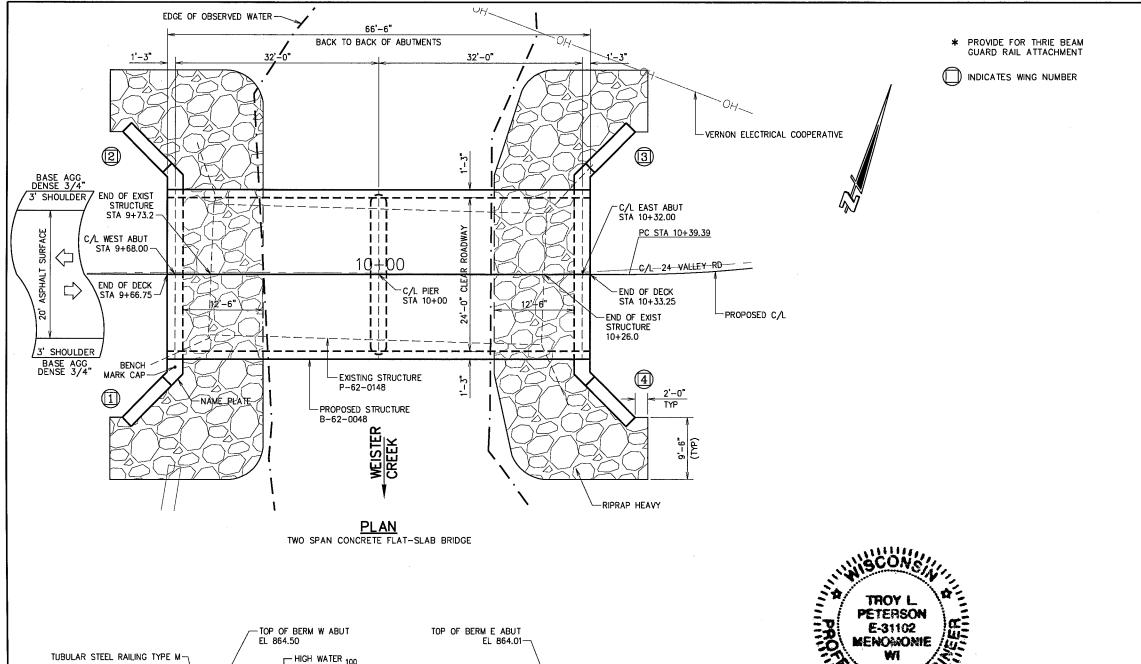
PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42

PLOT DATE: 30-SEP-2013 13:25 PLOT BY : mscj9h







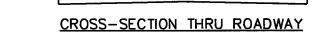


FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING STEEL HP 10x42, WITH A REQUIRED DRIVING RESISTANCE OF 125 TONS # PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION. ESTIMATED LENGTH = 25' W ABUTMENT ESTIMATED LENGTH = 25' E ABUTMENT

PIER TO BE SUPPORTED ON PILING STEEL HP 10x42, WITH A REQUIRED DRIVING RESISTANCE OF 160 TONS ‡ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION. ESTIMATED LENGTH = 25'

 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.



26'-6"

12'-0"

- 1'-5" SLAB

0.02 '/

TYPE M

RAILING TUBULAR

DESIGN DATA

1'-3"

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

LIVE LOAD:
DESIGN LOADING INVENTORY RATING FACTOR OPERATING RATING FACTOR -RF = 1.12-RF = 1.45WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV) - 250 KIPS

ULTIMATE DESIGN STRESSES: CONCRETE MASONRY

f'c = 4,000 PSIALL OTHER -- f'c = 3.500 PSIBAR STEEL REINFORCEMENT, GRADE 60fy = 60,000 PSI

STATE PROJECT NUMBER

5409-00-71

1'-3"

12'-0"

C OF 24 VALLEY RD

POINT REFERRED

TO ON PROFILE

0.02 '/,

HYDRAULIC DATA

100 YEAR FREQUENCY	
DRAINAGE AREA	
Q ₁₀₀ TOTAL	3100 CFS
THRU STRUCTURE	
OVERFLOW	—— 21 CFS
VELOCITY - THRU STRUCTURE -	B.6 FPS
WATERWAY AREA THRU STRUCTURE ——	358 SQ FT
HIGH WATER 100 ELEVATION	868.59 FT
SCOUR CRITICAL CODE = 5	
2 YEAR FREQUENCY	
Q ₂ TOTAL ————————————————————————————————————	460 CFS
HIGH WATER 2 ELEVATION	862.00 FT
FREQUENCY OF ROADWAY OVERTOPPING	
	2900 CFS
HIGH WATER SELEVATION -	866.31 FT

TRAFFIC DATA

AADT	(2014)	65	
AADT	(2014)	UJ	
AADT	(2034)	79	
ועממ	(2034)	73	
DESIGN	SPFFD	- 25	MPH
DESIGN	J 51 EED	20	1441 1

BENCHMARK

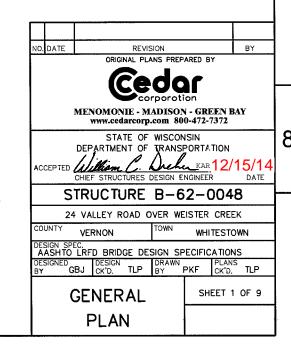
STA 9+74.36, 12.11' LT PK NAIL IN SE CORNER BRIDGE

LIST OF DRAWINGS

- GENERAL PLAN
- QUANTITIES & NOTES SUBSURFACE EXPLORATION
- WEST ABUTMENT EAST ABUTMENT
- ABUTMENT DETAILS
- SUPERSTRUCTURE
- TUBULAR STEEL RAILING TYPE "M"

DESIGN CONTACT: TROY L. PETERSON (715) 235-9081

BRIDGE OFFICE CONTACT: WILLIAM DREHER (608) 266-8489



EL 868.59

STREAM BED

EL 856.1 ±

OBSERVED WATER

EL 859±

-BOT OF PIER

EL 853.52

ELEVATION

NORMAL TO C/L OF WEISTER CREEK

(4-8-13)

PROPOSED

870

865

860

855

GRADE -

BOT OF FTG

EL 862.00-

BOT OF FTG

EL 861.51

RIPRAP EXTRA-HEAVY

EXCAVATION IN THESE

FOR STRUCTURE (TYP)

INCLUDED IN EXCAVATION

AREAS SHALL BE

GEOTEXTILE FABRIC TYPE HR

AREAS OF RIPRAP EXTRA-HEAVY

TO BE PLACED UNDER ALL

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT	W ABUT	PIER	E ABUT	SUPER	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA 10+00	LS					1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-62-0048	LS					1
210.0100	BACKFILL STRUCTURE	CY	140		140		280
502.0100	CONCRETE MASONRY BRIDGES	CY	33	37	33	97	200
502.3200	PROTECTIVE SURFACE TREATMENT	SY				230	230
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	2165	1760	2165		6090
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	1460		1460	21440	24360
513.4060	RAILING TUBULAR TYPE M STRUCTURE B-62-0048	LS					1
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	5.5		5.5		11
550.0500	PILE POINTS	EACH	6	5	6		17
550.1100	PILING STEEL HP 10-INCH x 42 LB	LF	150	125	150		425
606.0400	RIPRAP EXTRA-HEAVY	CY	80		75		155
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	80		80		160
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	150		140		290
	NON-BID ITEMS						
	FILLER	SIZE					1/2 & 3/4

C/L w ABUT STA 9+50.00 ELEV 871.473 C/L W ABUT STA 9+68.00 ELEV 871.43 C/L PIER STA 10+00.0 PVI STA 10+00.00 ELEV 871.25 PVI STA 10+50.00 ELEV 870.34 PVI STA 10+50.00 ELEV 870.70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ALL ELEVATIONS ARE IN FEET.

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

STATE PROJECT NUMBER

5409-00-71

ALL REINFORCING BARS ARE ENGLISH. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP EXTRA—HEAVY AND GEOTEXTILE FABRIC TYPE 'HR' TO THE EXTENT SHOWN ON SHEET 1 AND AND IN THE ABUTMENT DETAILS.

STEEL 'HP' PILE MATERIAL SHALL BE A.S.T.M. DESIGNATION A36.

THE EXISTING STRUCTURE (P-62-0148) IS A 52.4' LONG BY 20.4' CLEAR WIDTH SINGLE SPAN CONCRETE FLAT SLAB BRIDGE.

THE PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP AND EDGES OF THE SLAB AND TO THE OUTSIDE 1'-0" OF THE UNDERSIDE OF THE SLAB.

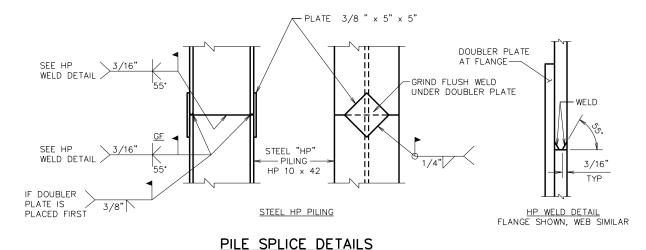
AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE IN PLACE BEFORE ABUTMENT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.

THE GRADATION OF THE BACKFILL STRUCTURE SHALL MEET THE REQUIREMENTS OF SECTION 209.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.

THE EXISTING GROUND LINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

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

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



NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

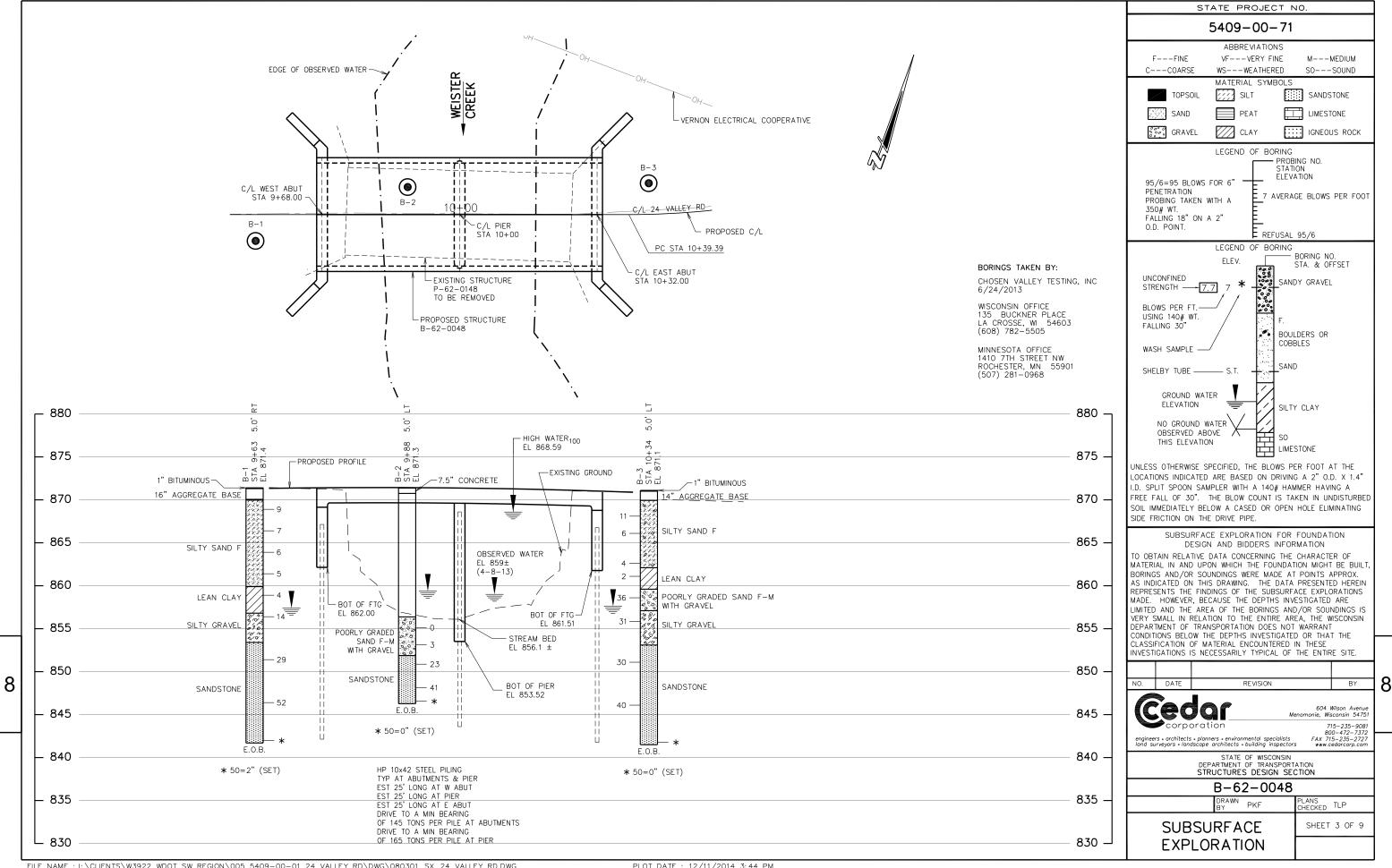
STRUCTURE B-62-0048

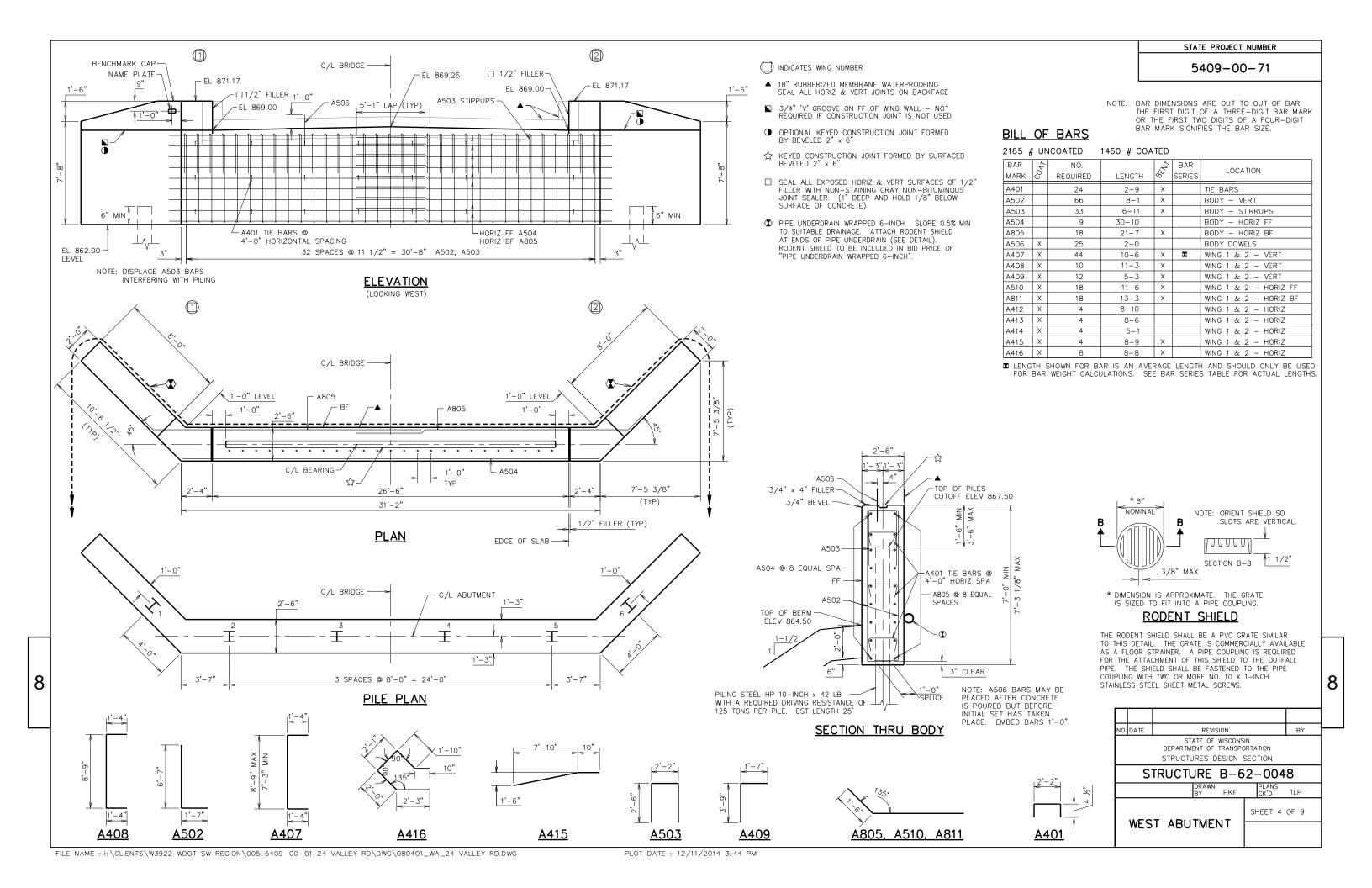
DRAWN PKF PLANS
BY PKF PLANS
CK'D TLP

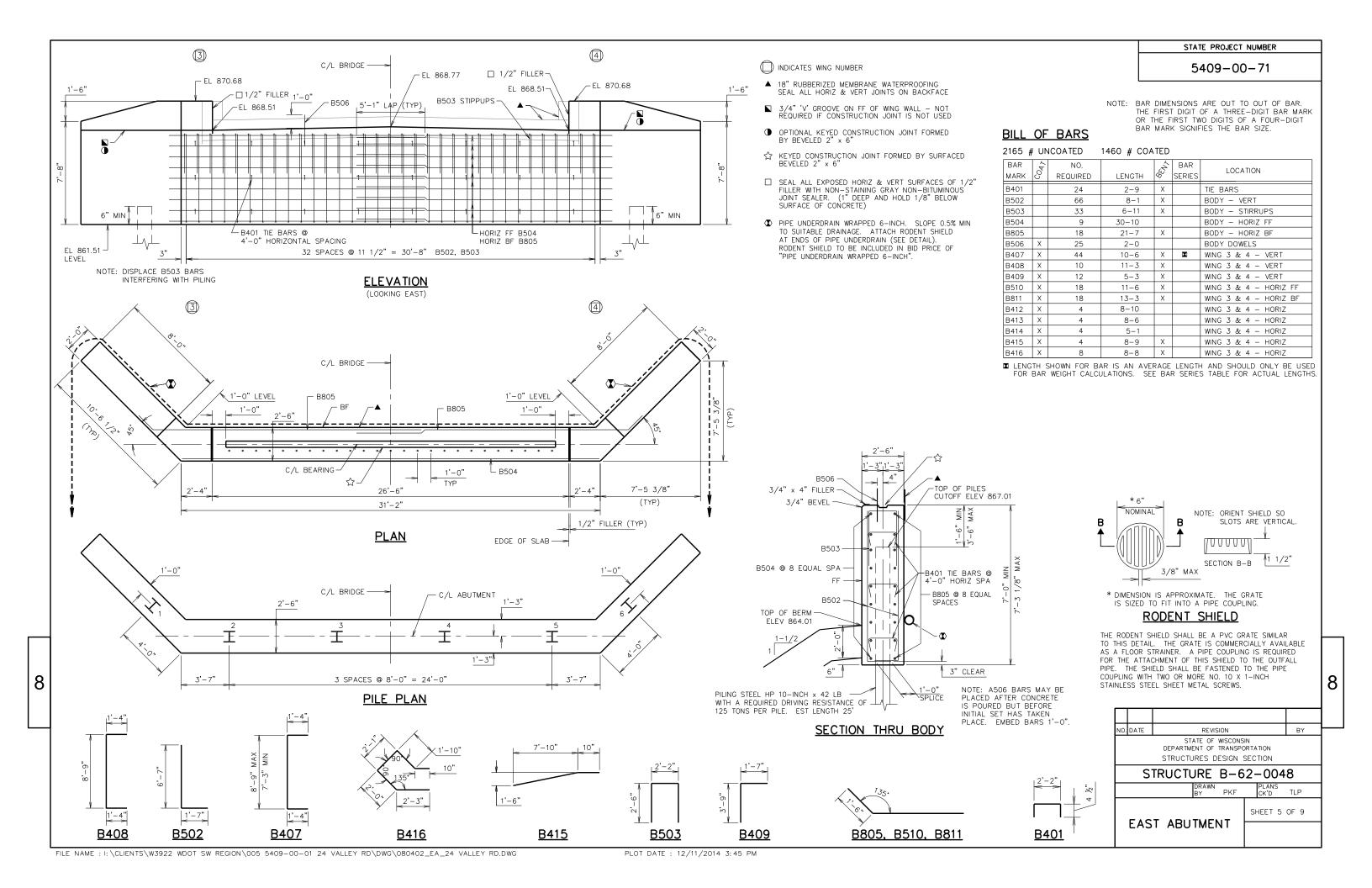
QUANTITIES & SHEET 2 OF 9

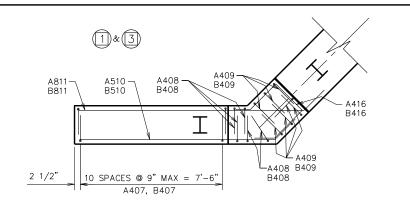
NOTES

8









5409-00-71

A415 WING 1 & 2
B415 WING 3 & 4

STATE PROJECT NUMBER

- A414 WING 1 & 2 B414 WING 3 & 4 - A413 WING 1 & 2 B413 WING 3 & 4 - A412 WING 1 & 2 B412 WING 3 & 4



A510 FF WINGS 1 & 2
B407, A408 & A409 WING 1 & 2
B407, B408 & B409 WING 3 & 4

•

BF = BACK FACE FF = FRONT FACE

TYPICAL SECTION THRU WING

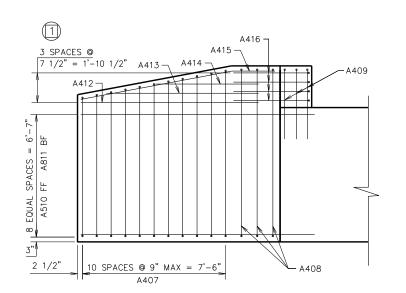
- $\hfill \begin{tabular}{lll} \hline & 3/4" \end{tabular} 'V' \end{tabular} \begin{tabular}{lll} \mbox{RROOVE} \mbox{ ON FF OF WING WALL} \mbox{ NOT } \\ \mbox{REQUIRED IF CONSTRUCTION JOINT IS NOT USED} \\ \hline \end{tabular}$
- OPTIONAL KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" x 6"

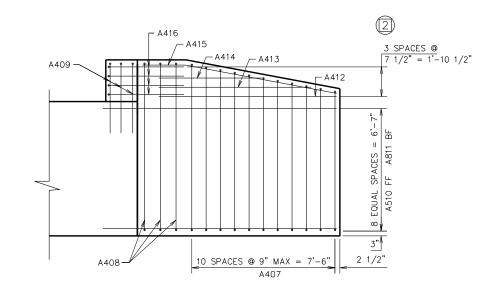
BAR SERIES TABLE

MARK	NO. REQUIRED	LENGTH
A407	4 SERIES OF 11	9'-9" TO 11'-3"
B407	4 SERIES OF 11	9'-9" TO 11'-3"

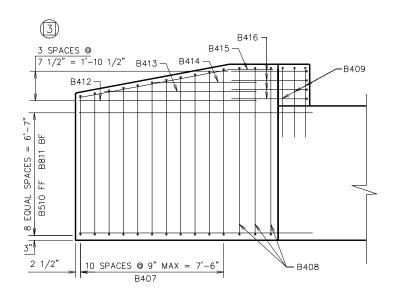
BUNDLE AND TAG EACH SERIES SEPARATELY

PLAN

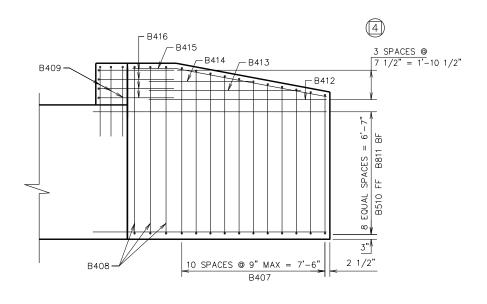




WEST ABUTMENT WINGS



8



EAST ABUTMENT WINGS

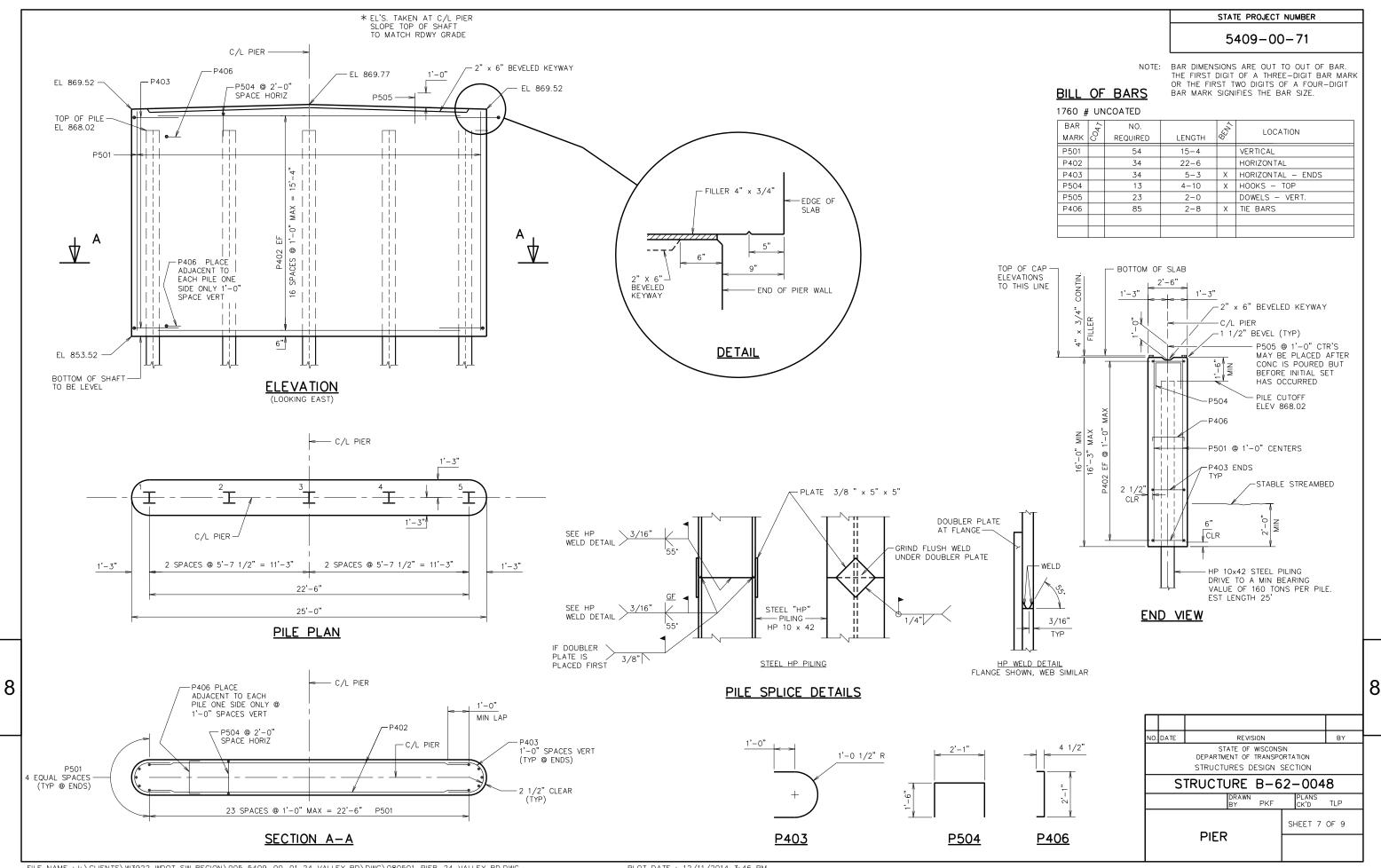
NO. DATE REVISION BY

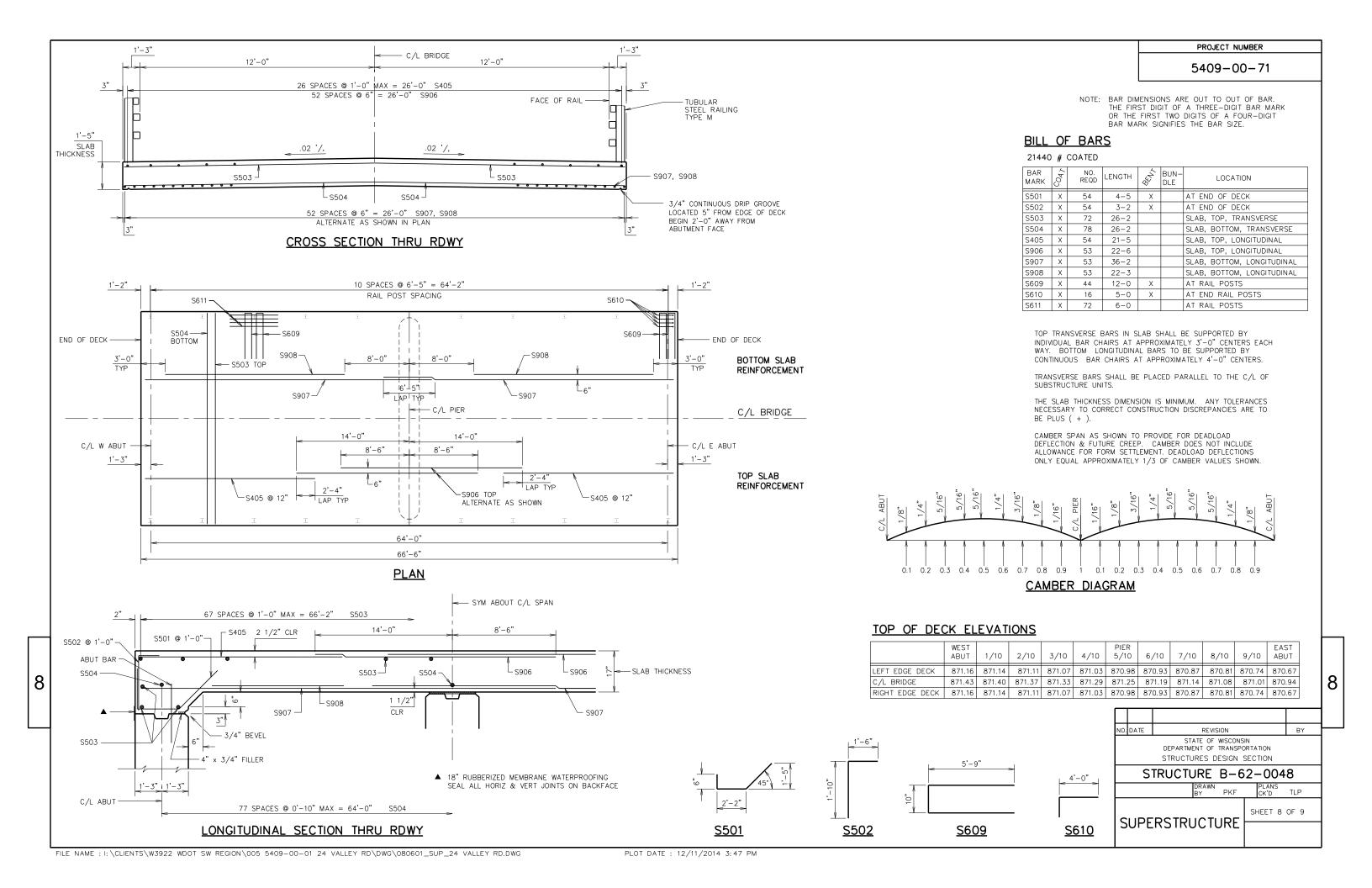
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

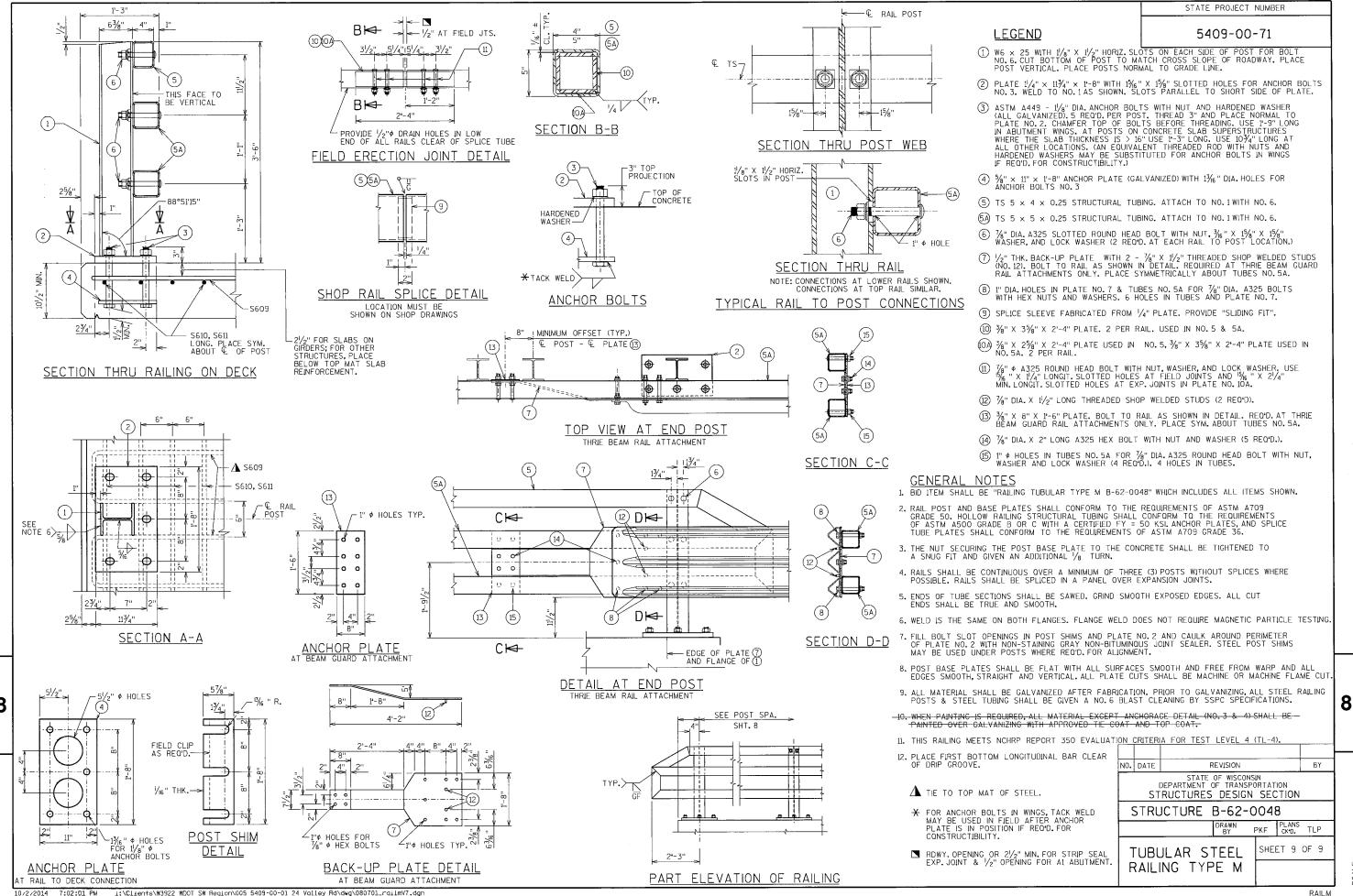
STRUCTURE B-62-0048

DRAWN
BY
PKF
PLANS
CK'D TLP

ABUTMENT
DETAILS







			AREA (SF)			Incremental Vol (CY)			Cumulative		
STATION	Real Station	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.25	Mass Ordinate
			Note 1								Note 2
9+00	900		35	2	0	0	0	0	0	0	0
9+25	925	25	30	2	0	30	2	0	30	0	28
9+50	950	25	28	2	1	27	2	1	57	1	52
						57	4	1			

			AREA (SF)			Increment	al Vol (CY)	Cumulative Vol (CY)				
STATION	Real Station	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.25	Mass Ordinate	
			Note 1								Note 2	
10+50	1050		30	2	2	0	0	0	0	0	0	
10+75	1075	25	31	2	0	28	2	1	28	1	25	
11+00	1100	25	26	2	1	26	2	1	55	2	49	
						55	4	2				

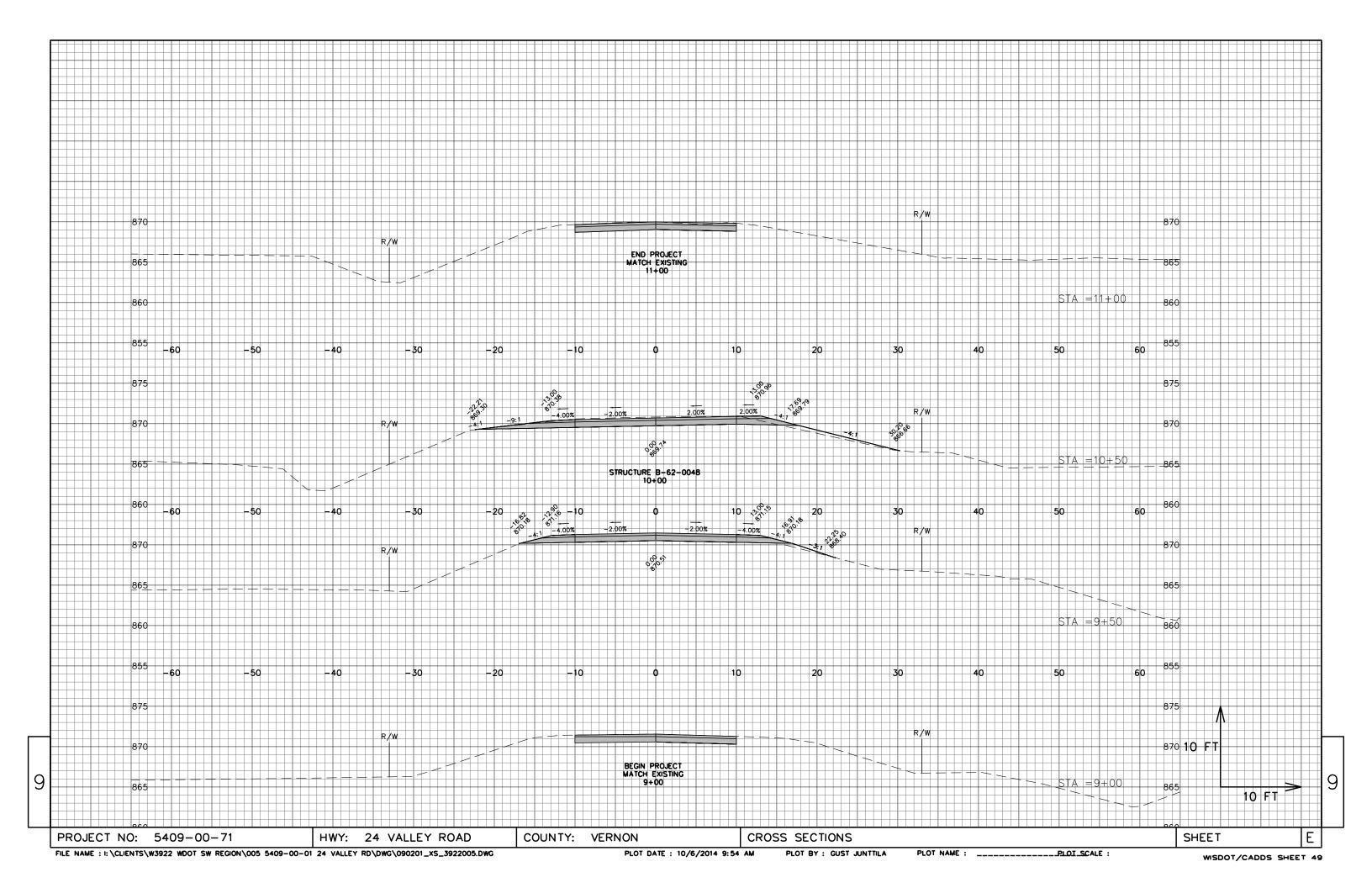
- 1) Cut includes Salvaged/Unusuable Pavement Material
- 2) Available Material = Cut Salvaged/Unusuable Pavement Material
- 3) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division and is catagorized as waste.

Minus indicates a shortage of material within the Division and is catagorized as borrow Item Number 208.0100.

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PROJECT NO: 5409-00-71 HWY: 24 VALLEY ROAD COUNTY: VERNON EARTHWORK SHEET **E**



Notes



Wisconsin Department of Transportation

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