NCL

MAY 2014				0 T A T	- 0F W100			STA
ORDER OF SHEETS				SIAII	E OF WISCO	ONSIN		
	itle ypical Sections and Deta	ils	DFPA	RTMFNT	OF TRAI	NSPORTA	TION	
	Includes Erosion Control stimate of Quantities	Plans)			VI IIIAI	itoi oiti A	11011	
Section No. 3 M.	iscellaneous Quantities			PLAN OF	PROPOSED IMPRO	VEMENT		
	<del>ight of Way Plat</del> lan and Profile							
	tandard Detail Drawings	T	CAT	<b>FAWBA</b>	HOBBL	ES CRI	EEK RO	DAD
	ign Plates tructure Plans			HOBBLES	CREEK BRIDGE B	-50-0086		
	omputer Earthwork Data ross Sections				OWN ROAL			
	42			1	OWN ROAL			
TOTAL SHEETS = 2	+2	PRICE COUNTY		PR	ICE COUNT	ГҮ		
				E	STATE PROJECT NUMBER	7		
	<del>}</del>			<u> </u>	<del>3717-00-70</del>			
571-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-								
				R-2-W R-1-W		R-1-W R-1-E		
	N							
				14 2 13 \$ ROCKEY	€ Sπus	ND Cod		
				13 5 ND 18 SPRUCE SPRUCE 18 18	17 5 16 15 40	14 13		
		STRUCTURE E	3-50-86	Cr. 3	Y	WEARS RD		
PROJECT LOCATION	l			23 CRK 24 HIGHLAND RD	22 Be0	23 24		
DESIGN DESIGNATION				HICH RD		GRUHNER RD		
	<100	BEGIN	PROJECT	26 25 MARSH RD	29 \ 28 \ Cr.	26 0 25		
D.H.V. =		STA. Y - 3309	8+50 51.18	9 36	TIMBER &D	35		
T. =		Y = 3309 X = 7441	31.90	35 4 31 8	32 CATA	WBA 36		
	35 MPH N/A			TOWNSHIP CORNERS RD	HOBBLES CRK	RD RD	T-35-N T-34-N	
CONVENTIONAL SYMBO	LS			2 6	5 4 3	2 1	1 34 10	
CORPORATE LIMITS	////// PF	ROFILE	_	W FOREST IN	E FOREST LN	₹ <b>₹</b>	END PROJECT	
PROPERTY LINE		ADE LINE IGINAL GROUND		Hobbles,	8 9 10	11 2 12	STA. 11+50	
LOT LINE LIMITED HIGHWAY EASEME		ARSH OR ROCK PROFILE To be noted as such)	_ <u>Rock</u>	Ho	ROBERT RO	M	Y = 330949.51 X = 744431.90	
EXISTING RIGHT OF WAY PROPOSED OR NEW R/W	———— SP	ECIAL DITCH	<u>LABE</u> L	14 13 18	17 county 16 15	14 13		
SLOPE INTERCEPT		ADE ELEVATION	95.36	<i>*</i>		1 Regular		
REFERENCE LINE		LVERT (Profile View)	0 🗆	23 24 19	20 21 22	23 GUDD RD 24 MONW		
EXISTING CULVERT PROPOSED CULVERT		T <b>ILITIES</b> PERHEAD	ОН		1 2 1 1		*	
(Box or Pipe)  COMBUSTIBLE FLUIDS	\\ \alpha \/ \	ECTRIC BER OPTIC	E					
COMBUSTIBLE FEUIDS	GA	s	G		LAYOUT			
HIGH VOLTAGE	<i>/L</i> \	INITARY SEWER ORM SEWER	SAN		SCALE L			
THOS. TOETHOE	OHQ12011	LEPHONE ATER	— T —	TATAL	NET LENGTH OF CENTERLINE = 0.0	057 MI		
MARSH AREA	UT	ILITY PEDESTAL		TOTAL	HET LENGTH OF CENTERLINE = U.C	OUT INTO	COORDINATES ON THIS PLA THE WISCONSIN COUNTY COO PRICE CO	RDINATE SYSTEM (WCCS),
WOODED OR SHRUB AREA	۲۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰	WER POLE LEPHONE POLE	⊎ ø				TRICE CO	Six i

ACCEPTED FOR Catawba ACCEPTED FOR County Price Jan 23,2014 ORIGINAL PLANS PREPARED BY ASSOCIATES 3433 Oakwood Hills Parkway Eau Claire, WI 5470I ASSOCIATES WWw.AyresAssociates.com 1/27/14 STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY AYRES ASSOCIATES INC Surveyor AYRES ASSOCIATES INC Designer Management Consultant \_\_CEDAR CORPORATION APPROVED FOR THE DEPARTMENT B. W. W.H

FEDERAL PROJECT

CONTRACT

1

PROJECT

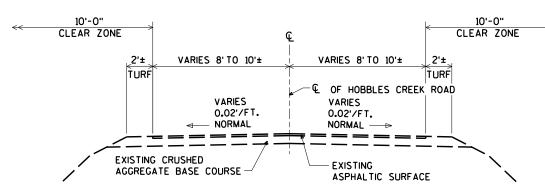
WISC 2014203

STATE PROJECT

8717-00-70

1:200

NO TREES (AND/OR SHRUBS) ARE TO BE REMOVED WITHOUT THE APPROVAL



TYPICAL EXISTING SECTION

ACRES CHISELED **CENTERLINE** COR CORNER CWT COUNT CUBIC YARD CY ELEVATION EL GAL GALLON HOUSE ΙP IRON PIPE LB POUND LINEAR FEET LUMP SUM LS LEFT MAX MAXIMUM MIN MINIMUM MON MONUMENT NORM NORMAL OAL OVERALL LENGTH PC POINT OF CURVATURE PD PEDESTAL POINT OF INTERSECTION PΙ PΚ PARKER-KALON PLPROPERTY LINE PLE PERMANENT LIMITED EASEMENT PΡ POWER POLE PΤ POINT OF TANGENCY RADIUS REQ'D REQUIRED RT RIGHT R/W RIGHT-OF-WAY SQUARE FEET SHLDR SHOULDER STA STATION SY SQUARE YARD

**ABBREVIATIONS** 

TLE TEMPORARY LIMITED EASEMENT VAR VARIES WL WELL

OF THE ENGINEER. EXCAVATION FOR STRUCTURES SHALL INCLUDE FURNISHING, PLACEMENT AND COMPACTION OF ANY FILL MATERIAL REQUIRED TO PROVIDE A SUITABLE FOUNDATION FOR SUBSTRUCTURE UNITS. 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. DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCLUSIVE OF THE ROADBED, SHALL BE FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER. WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE 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 THE MATERIAL AS DIRECTED BY THE ENGINEER. ASPHALTIC REMOVAL IS INCLUDED IN THE ITEM EXCAVATION COMMON. SALVAGE TOPSOIL SHALL BE PLACED ON THE SLOPES, TO THE POINT OF INTERCEPT WITH THE ORIGINAL GROUND SHOWN ON THE CROSS SECTIONS.

DIRECTED BY THE ENGINEER.

THE DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR WITH A MONUMENT TO BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD 88).

ASPHALT SURFACE SHALL USE 1/2" NOMINAL AGGREGATE SIZE.

WETLANDS EXIST IN THE PROJECT AREA. NO DISTURBANCE IS ALLOWED OUTSIDE THE SLOPE INTERCEPT.

THE LOCATION AND WIDTH OF THE EXISTING RIGHT OF WAY WAS DETERMINED BY THE MUNICIPALITY FOR THIS PROJECT. AYRES ASSOCIATES DOES NOT WARRANT IT'S ACCURACY.

#### UTILITIES

**CENTURYLINK** 400 W. 9TH ST. N. SUITE 5 LADYSMITH, WI 54848 ATTN: BRIAN HUHN 715-532-0023 715-563-8294 (CELL) brian.huhn@centurylink.com PRICE ELECTRIC COOPERATIVE 508 N. LAKE AVE. P.O. BOX 110 PHILLIPS, WI 54555 ATTN: JASON WEIK 715-339-2155 jweik@price-electric.com

\* TDENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

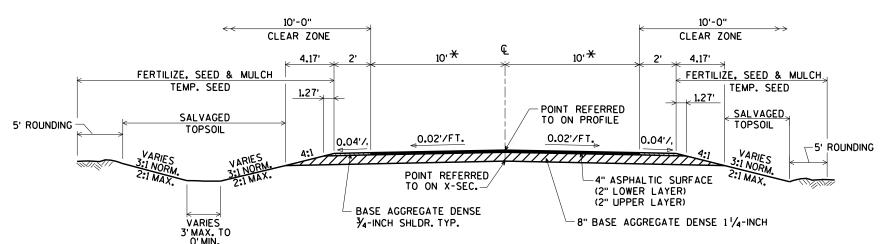


**DESIGNER** 

BRIDGE

AYRES ASSOCIATES 3433 OAKWOOD HILLS PARKWAY EAU CLAIRE, WI 54701 ATTN: CHRIS MCMAHON, PE 715-834-3161 mcmahonc@ayresassociates.com WISCONSIN DEPARTMENT OF NATURAL RESOURCES CONTACT:

SHAWN HASELEU 810 W. MAPLE STREET SPOONER, WI 54801 715-635-4228 shawn.haseleu@wisconsin.gov



TYPICAL FINISHED SECTION

\* THE ASPHALT SURFACE SHALL BE PLACED 26.5 FEET WIDE AT THE ENDS OF THE BRIDGE TO 20 FEET WIDE AT 50 FEET FROM THE END OF BRIDGE.

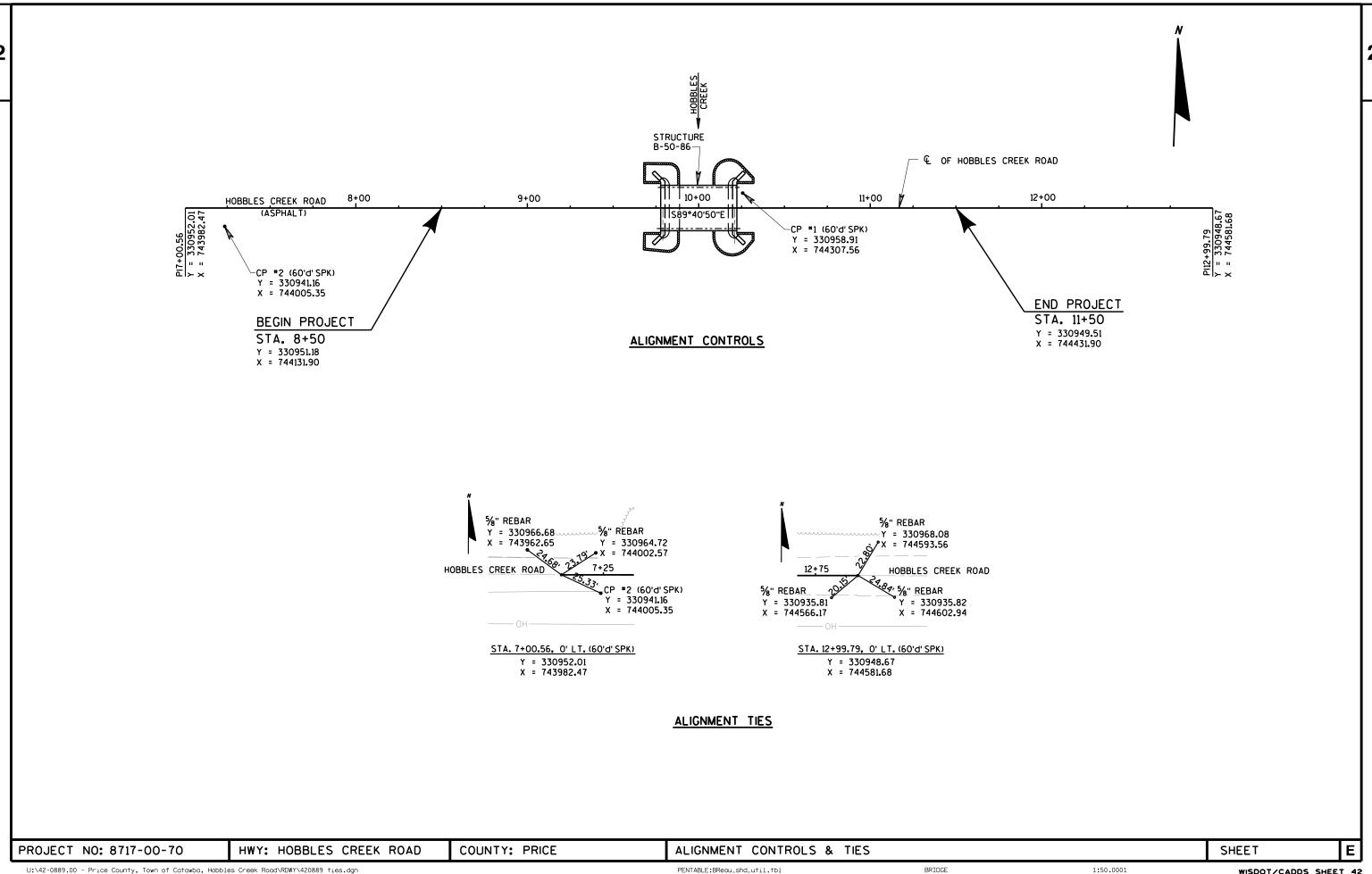
PROJECT NO: 8717-00-70

HWY: HOBBLES CREEK ROAD

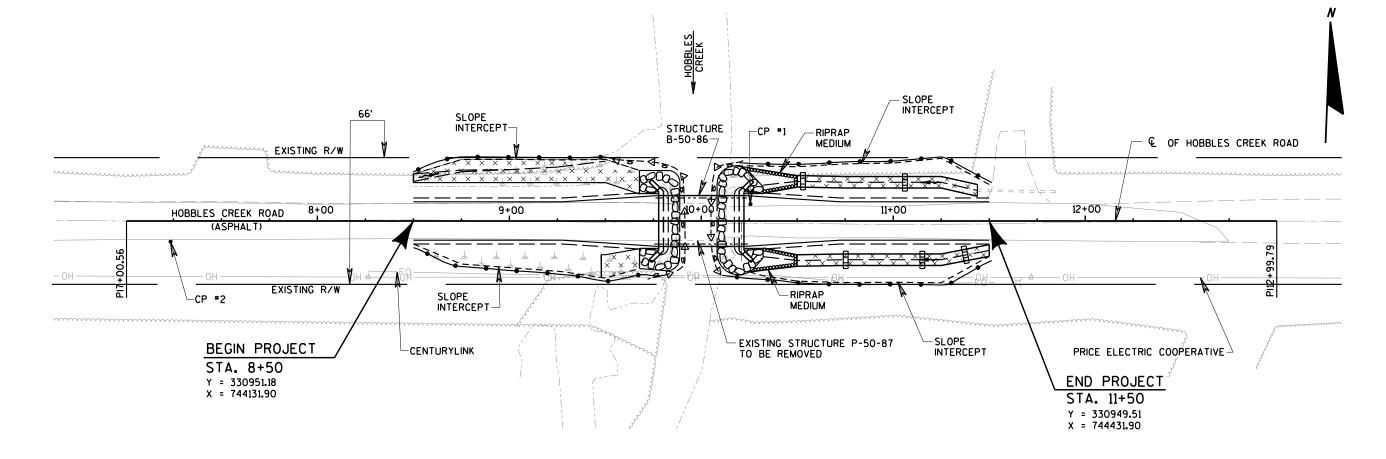
COUNTY: PRICE

TYPICAL SECTIONS

SHEET







		HYDROLOGIC SOIL GROUP										
		Δ	1	В			С			D		
	Š	SLOPE (PERC		,	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS						.7585						
ROOFS						.7595						
GRAVEL ROADS,	GRAVEL ROADS, SHOULDERS .4060											

HWY: HOBBLES CREEK ROAD

1:50.0001

TOTAL PROJECT AREA = 0.45 ACRES

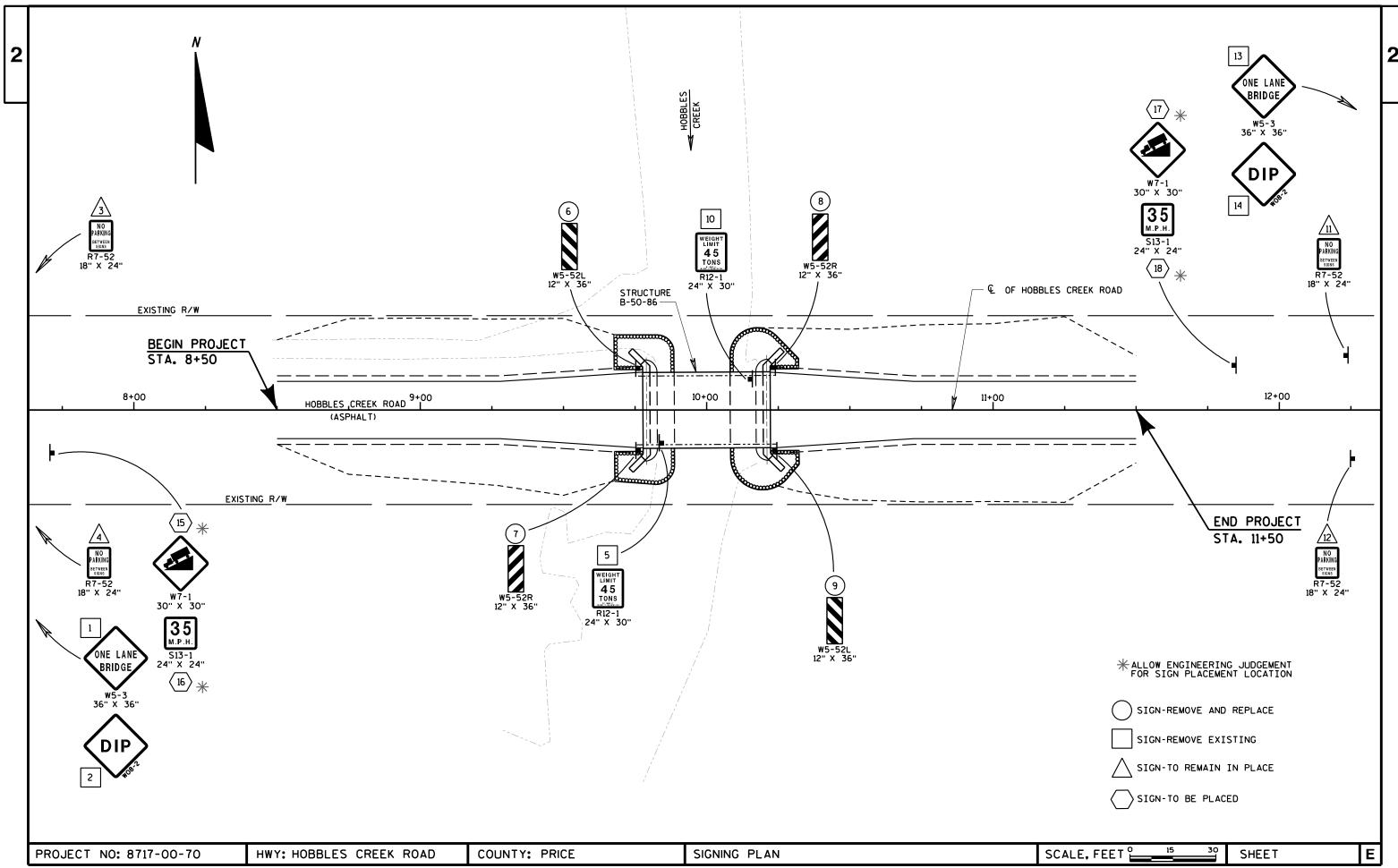
PROJECT NO: 8717-00-70

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.39 ACRES

EROSION CONTROL

COUNTY: PRICE

BRIDGE



BRIDGE

DATE 12 LINE	MAR14	E S 1	IMATE	OF QUAN	T I T I E S 8717-00-70	
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY	
0010	201. 0105	CLEARI NG	STA	3.000	3. 000	
0020	201. 0205	GRUBBI NG	STA	3.000	3. 000	
0030	203. 0600. S	REMOVING OLD STRUCTURE OVER WATERWAY	LS	1.000	1. 000	
		WITH MINIMAL DEBRIS (STATION) 01. 10+00				
0040	205. 0100	EXCAVATION COMMON	CY	375. 000	375. 000	
0050	206. 1000	EXCAVATION FOR STRUCTURES BRIDGES	LS	1. 000	1. 000	
		(STRUCTURE) 01. B-50-0086				
0060	208. 0100	BORROW	CY	178. 000	178. 000	
0070	210. 0100	BACKFILL STRUCTURE	CY	150. 000	150. 000	
0800	213. 0100	FINISHING ROADWAY (PROJECT) 01.	EACH	1. 000	1. 000	
		8717-00-70				
0090	305. 0110	BASE AGGREGATE DENSE 3/4-INCH	TON	30.000	30.000	
0100	305. 0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	390.000	390.000	
				1/ 222		
0110	455. 0605	TACK COAT	GAL	16.000	16. 000	
0120	465. 0105	ASPHALTIC SURFACE	TON CY	140.000	140.000	
0130	502. 0100 502. 3200	CONCRETE MASONRY BRIDGES PROTECTIVE SURFACE TREATMENT	SY	136. 000 160. 000	136. 000 160. 000	
0140 0150	505. 0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	4, 040. 000	4, 040. 000	
0100	303. 0403	DIAN STELL NETRI ONGLIMENT HIS DIN DOLS	LU	7, 070. 000	4, 040. 000	
0160	505. 0605	BAR STEEL REINFORCEMENT HS COATED	LB	15, 410. 000	15, 410. 000	
		BRI DGES		•		
0170	513. 4060	RAILING TUBULAR TYPE M (STRUCTURE) 01.	LS	1.000	1.000	
		B-50-0086				
0180	516. 0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	18. 000	18. 000	
0190	550. 1100	PILING STEEL HP 10-INCH X 42 LB	LF	500.000	500.000	
0200	606. 0200	RI PRAP MEDI UM	CY	25. 000	25. 000	
0210	606. 0300	RI PRAP HEAVY	CY	140. 000	140. 000	
0220	612. 0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	140. 000	140. 000	
0230	619. 1000	MOBI LI ZATI ON	EACH	1. 000	1. 000	
0240	625. 0500	SALVAGED TOPSOIL	SY	740. 000	740. 000	
0250	627. 0200	MULCHI NG	SY	750.000	750. 000	
0260	628. 1504	SILT FENCE	LF	660. 000	660. 000	
0270	628. 1520	SILT FENCE MAINTENANCE	LF	1, 320. 000	1, 320. 000	
0280	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	5. 000	5. 000	
0290	628. 1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	2.000	2.000	
0300	628. 2027	EROSION MAT CLASS II TYPE C	SY	415. 000	415. 000	
0310	628. 6005	TURBI DI TY BARRI ERS	SY	245. 000	245. 000	
0320	628. 7504	TEMPORARY DITCH CHECKS	LF	50. 000	50. 000	
0330	629. 0210	FERTILIZER TYPE B	CWT	0. 800	0. 800	
0340	630. 0120	SEEDI NG MI XTURE NO. 20	LB	32. 000	32. 000	
0350	630. 0200	SEEDING TEMPORARY	LB	20.000	20. 000	
0360	634. 0612	POSTS WOOD 4X6-INCH X 12-FT	EACH	6. 000	6. 000	
0370	637. 2230	SIGNS TYPE II REFLECTIVE F	SF	32.500	32. 500	
0380	638. 2602	REMOVING SIGNS TYPE II	EACH	10.000	10.000	
0390 0400	642. 5001 643. 0100	FIELD OFFICE TYPE B TRAFFIC CONTROL (PROJECT) 01. 8717-00-70	EACH EACH	1. 000 1. 000	1. 000 1. 000	
0400	043.0100	TRAILIG CONTROL (FROJECT) UT. 0/1/-00-/0	LACII	1.000	1.000	
0410	643. 0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	812. 000	812. 000	
0420	643. 0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	1, 392. 000	1, 392. 000	
0430	643.0900	TRAFFIC CONTROL SIGNS	DAY	812.000	812.000	
0440	645. 0120	GEOTEXTILE FABRIC TYPE HR	SY	355.000	355.000	
0450	650. 4500	CONSTRUCTION STAKING SUBGRADE	LF	256. 000	256. 000	
0460	4F0 F000	CONCEDUCTION STAVING DAGE		25/ 000	25/ 000	
0460	650. 5000	CONSTRUCTION STAKING BASE	LF LS	256.000	256. 000	
0470	650. 6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. B-50-0086	LO	1. 000	1. 000	
0480	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL	LS	1. 000	1. 000	
2.00	200. 7710	CONTROL (PROJECT) 01. 8717-00-70		1. 000	1.000	
		(				

DATE 12	MAR14	E S T	IMAT	E OF QUANT	ITIES	
LINE					8717-00-70	
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY	
0490	650. 9920	CONSTRUCTION STAKING SLOPE STAKES	LF	256. 000	256.000	
0500	690. 0150	SAWING ASPHALT	LF	36.000	36.000	
0510	715. 0502	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	816. 000	816.000	
0520	ASP. 1TOA	ON-THE-JOB TRAINING APPRENTICE AT \$5.	HRS	600.000	600.000	
		00/HR				
0530	ASP. 1T0G	ON-THE-JOB TRAINING GRADUATE AT \$5.00/HR	HRS	300.000	300.000	

#### EARTHWORK SUMMARY (CATEGORY 0020)

UNUSEABLE

#### CLEARING AND GRUBBING (CATEGORY 0010)

201.0105 201.0205 CLEARING GRUBBING STATION TO STATION STA STA Sta. 8+50 to Sta. 11+50 3 3

#### 213.0100 FINISHING ROADWAY (CATEGORY 0010)

LOCATION	EACH
PROJECT 8717-00-70	1

#### BASE AGGREGATE DENSE (CATEGORY 0010)

		305.0110	
STATION TO STATION	LOCATION	TON	1 1/4-INCH TON
Sta. 8+50 to Sta. 9+77.75 Sta. 10+22.25 to Sta. 11+50	Mainline Mainline	15 15	195 195
TOTALS		30	390

#### 455.0605 TACK COAT (CATEGORY 0010)

STATION TO STATION	LOCATION	GAL
Sta. 8+50 to Sta. 9+77.75 Sta. 10+22.25 to Sta. 11+50	Mainline Mainline	8
TOTAL		16

#### 465.0105 ASPHALTIC SURFACE (CATEGORY 0010)

STATION TO STATION	LOCATION	TON
Sta. 8+50 to Sta. 9+77.75 Sta. 10+22.25 to Sta. 11+50	Mainline Mainline	70 70
TOTAL		140

SALVAGED/

			EXCAVATI CUT (2)	0100 ON COMMON EBS (3)	PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	FILL (6)	MASS ORDINATE ±(7)	WASTE	BORROW	
DIVISION	STATION TO STATION	LOCATION	CY	CY	CY	CY	CY	CY	CY	CY	CY	COMMENTS:
1	8+50 TO 9+77.75	HOBBLES CREEK ROAD	78	0	0	78	197	256	-178	0	178	
	10+22.25 TO 11+50	HOBBLES CREEK ROAD	297	0	0	297	1	1	296	296	0	
	GRANDTOTAL		375	0	0	375	198	257	118	296	178	

#### TOTAL EXCAVATION COMMON 375

#### NOTES:

- 1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- 2) SALVAGED/UNUSEABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- 3) EBS EXCAVATION TO BE BACKFILLED WITH BORROW MATERIAL.
- 4) SALVAGED/UNUSEABLE PAVEMENT MATERIAL
- 5) AVAILABLE MATERIAL = CUT SALVAGED/UNUSEABLE PAVEMENT MATERIAL
- 6) EXPANDED FILL FACTOR = 1.30

EXPANDED FILL = UNEXPANDED FILL \* FILL FACTOR

7) THE MASS ORDINATE  $\pm$  QTY CALCUTATED FOR THE DIVISION.

PLUS (+) QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS (-) QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

619.1000 MOBILIZATION

### 606.0200 RIPRAP MEDIUM (CATEGORY 0010)

STATION TO STATION	LOCATION	CY	LOCATION	CATEGORY	EACH
Sta. 10+18 to Sta. 10+50	LT	15	PROJECT 8717-00-70	0010	0.2
Sta. 10+20 to Sta. 10+50	RT	10	PROJECT 8717-00-70	0020	0.8
TOTAL		25	TOTAL		1

#### SALVAGED TOPSOIL, MULCHING, FERTILIZER, SEED & TEMPORARY SEED (CATEGORY 0010)

		625.0500	627.0200	629.0210	630.0120	630.0200
		SALVAGED		FERTILIZER	SEEDING	SEEDING
		TOPSOIL	MULCHING	TYPE B	NO. 20	TEMPORARY
STATION TO STATION	LOCATION	SY	SY	CWT	LB	LB
Sta. 8+50 to Sta. 11+50	Mainline	740	600	0.6	25	16
Undistributed			150	0.2	7	4
TOTALS		740	750	0.8	32	20

	PROJECT NO: 8717-00-70	HWY: HOBBLES CREEK ROAD	COUNTY: PRICE	MISCELLANEOUS QUANTITIES	SHEET	ΕĮ	ı
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#### SILT FENCE & SILT FENCE MAINTENANCE (CATEGORY 0010)

			628.1520
		628.1504	MAINTENANCE
STATION TO STATION	LOCATION	LF	LF
Sta. 8+50 to Sta. 9+56	LT	110	220
Sta. 8+50 to Sta. 9+81	RT	135	270
Sta. 10+15 to Sta. 11+50	LT	135	270
Sta. 10+10 to Sta. 11+70	RT	145	290
Undistributed		135	270
TOTALS		660	1,320

#### MOBILIZATIONS EROSION CONTROL & EMERGENCY EROSION CONTROL (CATEGORY 0010)

	628.1905	628.1910
	MOBILIZATIONS	MOBILIZATIONS EMERGENCY
	EROSION CONTROL	EROSION CONTROL
LOCATION	EACH	EACH
PROJECT 8717-00-70	5	2

#### 628.2027 EROSION MAT CLASS II TYPE C (CATEGORY 0010)

STATION TO STATION	LOCATION	SY
Sta. 8+50 to Sta. 9+67.73 Sta. 9+48 to Sta. 9+67.73 Sta. 10+50 to Sta. 11+43.76 Sta. 10+50 to Sta. 11+50 Undistributed	LT RT LT RT	160 30 70 70 85
TOTAL		415

#### 628.6005 TURBIDITY BARRIER (CATEGORY 0010)

LOCATION	LF
West Abutment East Abutment Undistributed	115 80 50
TOTALS	245

#### 628.7504 TEMPORARY DITCH CHECKS (CATEGORY 0010)

STATION	LOCATION	LF
Sta. 10+56	LT	7
Sta. 10+75	RT	7
Sta. 11+05	LT	7
Sta. 11+18	RT	7
Sta. 11+36	RT	7
Undistributed		15
TOTALS		50

#### 634.0612 WOOD POSTS 4X6 INCH X 12 FT (CATEGORY 0010)

STATION	LOCATION	EACH
Sta. 7+65	RT	1
Sta. 9+77	LT	1
Sta. 9+77	RT	1
Sta. 10+23	LT	1
Sta. 10+23	RT	1
Sta. 11+85	LT	1

TOTAL

#### 637.2230 SIGNS TYPE II REFLECTIVE F (CATEGORY 0010)

STATION	LOCATION	DESCRIPTION	SF
Sta. 7+65	RT	W7-1	6.25
Sta. 7+65	RT	S13-1	4
Sta. 9+77	LT	W5-52L	3
Sta. 9+77	RT	W5-52R	3
Sta. 10+23	LT	W5-52R	3
Sta. 10+23	RT	W5-52L	3
Sta. 11+85	LT	W7-1	6.25
Sta. 11+85	LT	S13-1	4
TOTAL			32.5

PROJECT NO: 8717-00-70 HWY: HOBBLES CREEK ROAD COUNTY: PRICE MISCELLANEOUS QUANTITIES SHEET E

#### 638.2602 REMOVING SIGNS TYPE II (CATEGORY 0010)

STATION	LOCATION	DESCRIPTION	SF
Prior to 6+50	RT	W5 - 3	1
Prior to 6+50	RT	W8-2	1
Sta. 9+85	RT	R12-1	1
Sta. 9+85	LT, RT	W5-52L	2
Sta. 10+15	LT, RT	W5-52L	2
Sta. 10+15	LT	R12-1	1
After 12+50	LT	W8-2	1
After 12+50	LT	W5-3	1

#### 642.5001 FIELD OFFICE TYPE B (CATEGORY 0010)

TOTAL

10

LOCATION	EACH
DD0.TDGE 0.71.7 0.0 7.0	1
PROJECT 8717-00-70	1

#### 643.0100 TRAFFIC CONTROL (CATEGORY 0010)

LOCATION	EACH
PROJECT 8717-00-70	

#### TRAFFIC CONTROL (CATEGORY 0010)

		643.0	420	643	3.0705	643.	0900
		BARRICADES	TYPE III	WARNING L	IGHTS TYPE A	SI	GNS
LOCATION	CALENDAR DAYS	EACH	DAY	EACH	DAY	EACH	DAY
PROJECT 8717-00-70	58	14	812	24	1,392	14	812

#### 645.0120 GEOTEXTILE FABRIC TYPE HR (CATEGORY 0010)

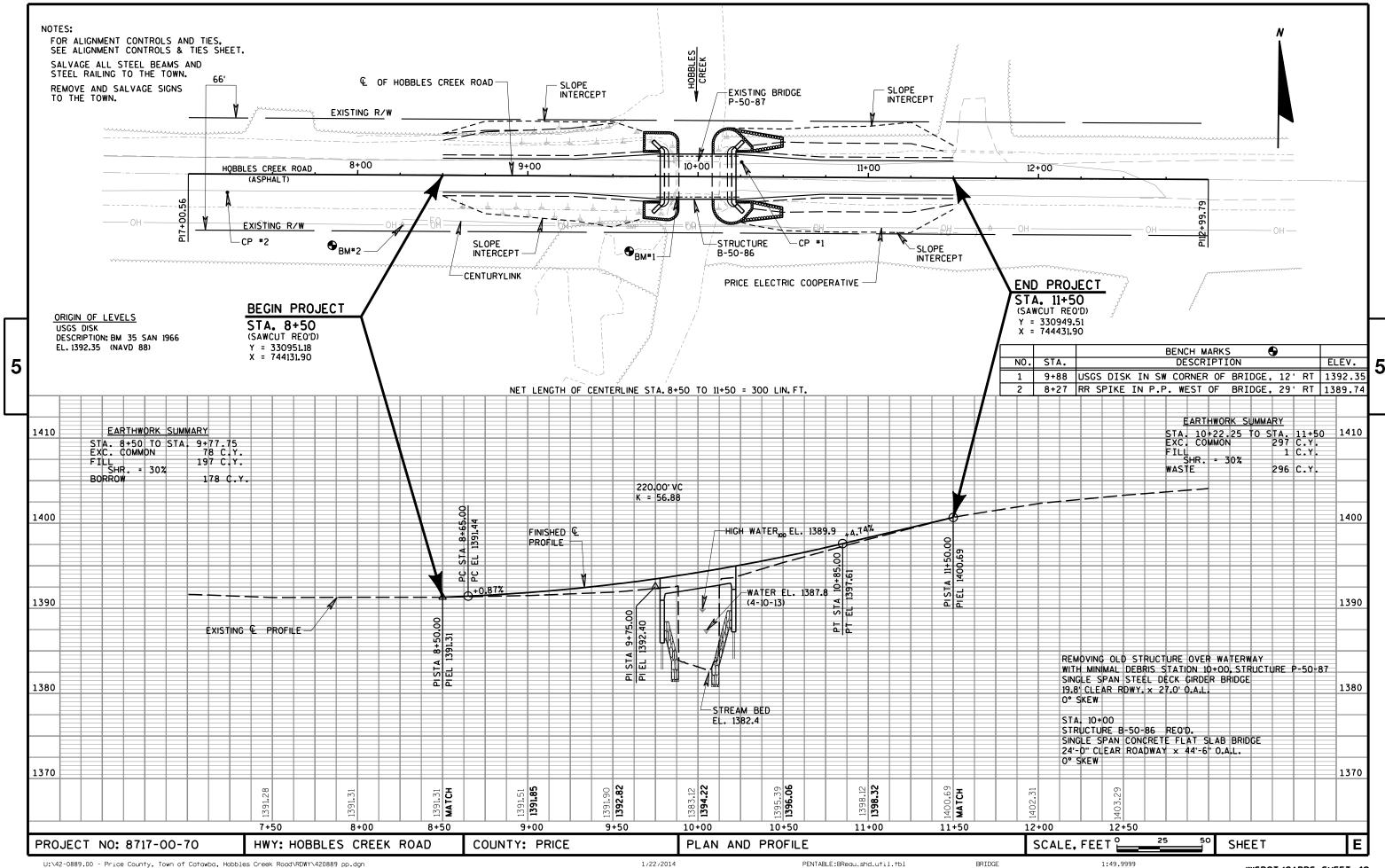
STATION TO STATION	LOCATION	SY
Sta. 10+18 to Sta. 10+50 Sta. 10+20 to Sta. 10+50	LT RT	35 30
TOTAL		65

#### CONSTRUCTION STAKING

CATEGORY	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.6500 STRUCTURE LAYOUT LS	650.9910 SUPPLEMENTARY CONTROL LS	650.9920 SLOPE STAKES LF
0010 0020	Sta. 8+50 to Sta. 11+50 B-50-86	256 	256 	 1	1	256 
TOTALS		256	256	1	1	256

#### 690.0150 SAWING ASPHALT (CATEGORY 0010)

STATION	LOCATION	LF
Sta. 8+50 Sta. 11+50	Mainline Mainline	16 20
TOTAL		36



# Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
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
15C06-06	SIGNING & MARKING FOR TWO LANE BRIDGES

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#### **GENERAL NOTES**

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

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



WHEN ALTERING THE DIRECTION OF FLOW



#### **PLAN VIEW**



#### FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

**EROSION BALES FOR SHEET FLOW** 

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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## TYPICAL APPLICATION OF SILT FENCE

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# PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



#### **GENERAL NOTES**

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

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



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

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#### **GENERAL NOTES**

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

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

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- 2 SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT, H. EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.
- 4 IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

## TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER  $\infty$ 

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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

|--|

3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

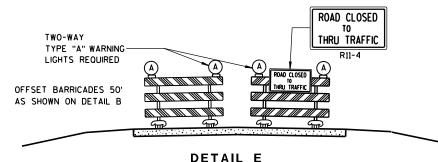
3-10



### 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

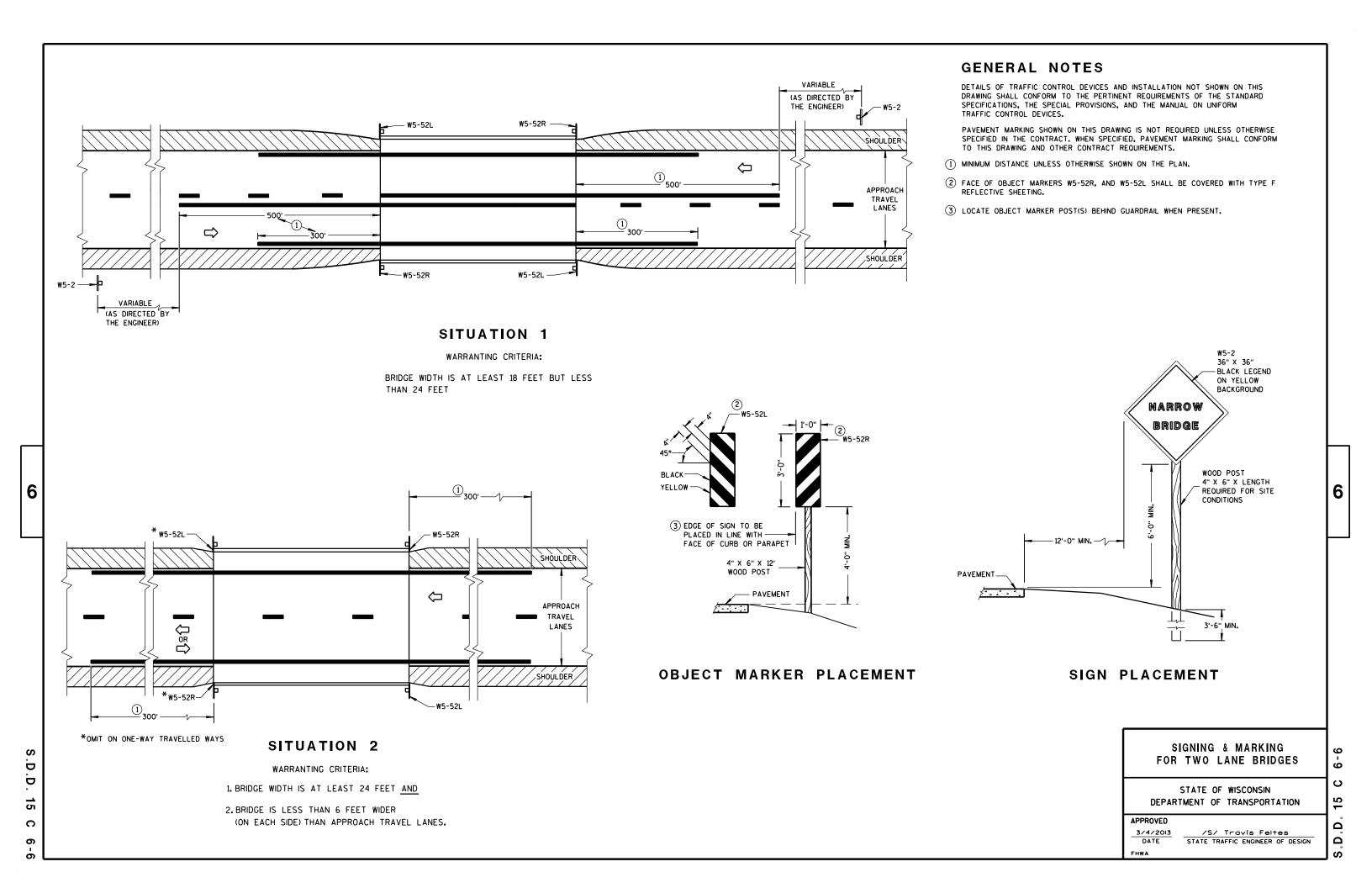
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

2

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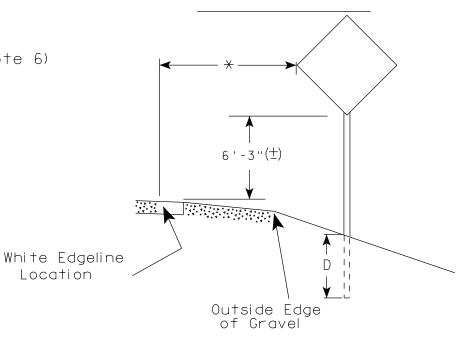
2



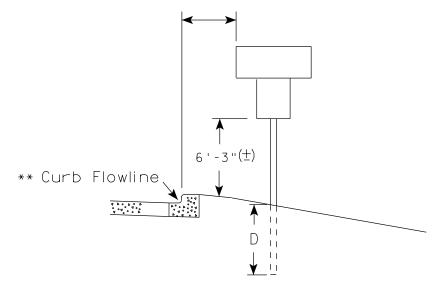
## URBAN ARFA

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

RURAL AREA (See Note 2)



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



5'-3"(生) White Edgeline  $D^{-1}$ Location 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.

\* 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.

PLOT BY : mscj9h

#### 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'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 9/30/13

SHEET NO:

PROJECT NO: 8717-00-70

HWY: HOBBLES CREEK ROAD

Location

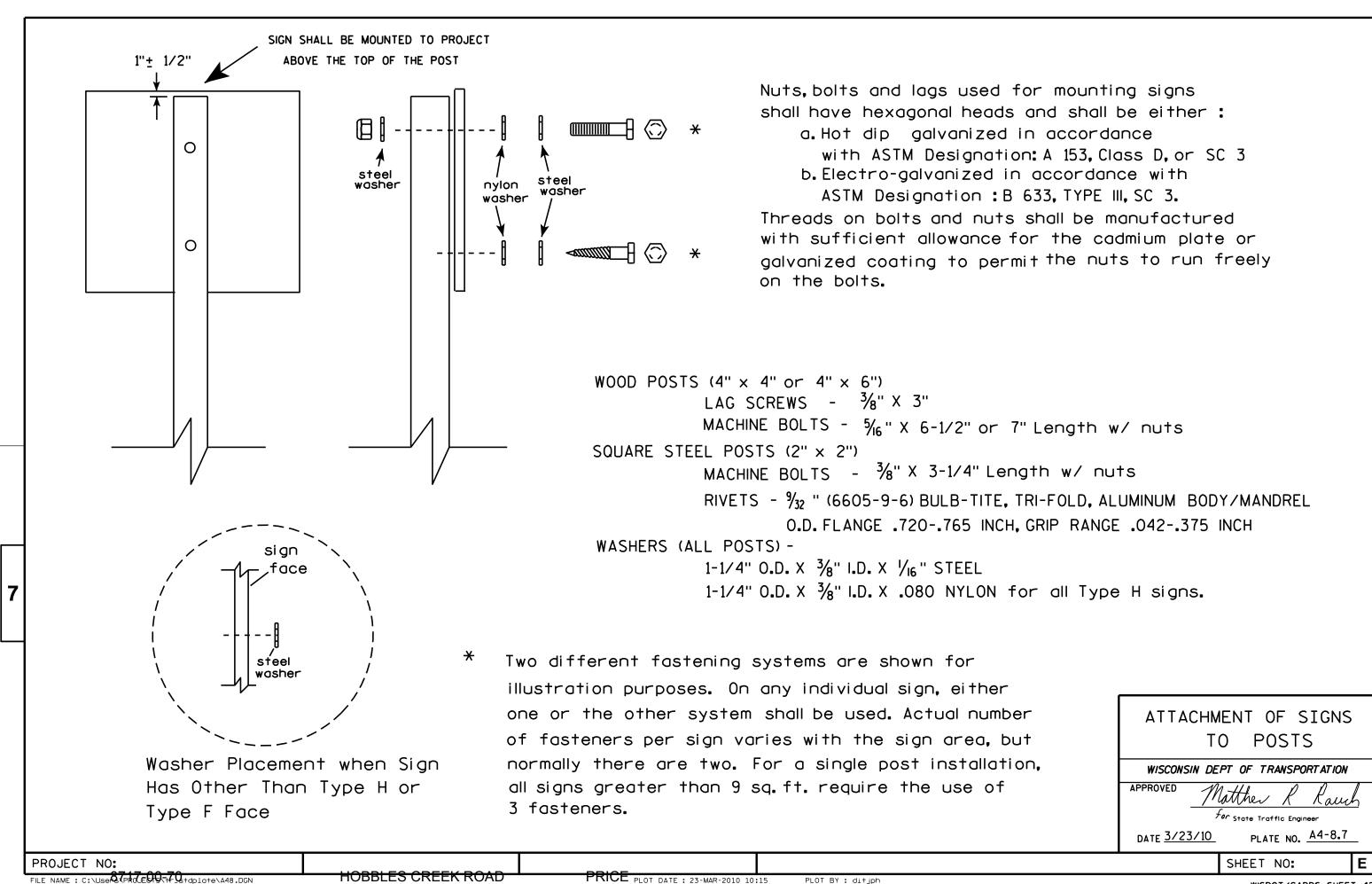
COUNTY: PRICE

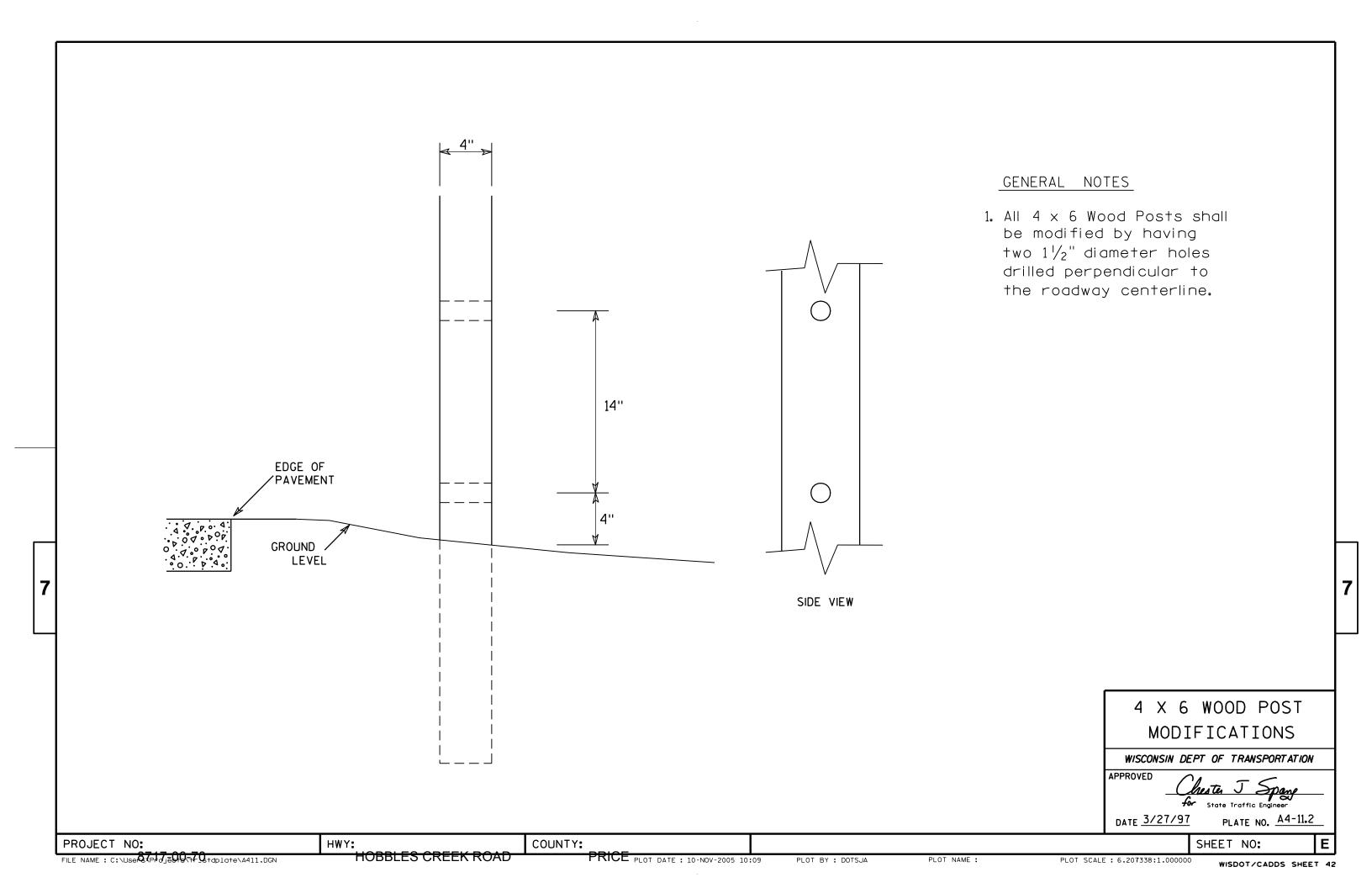
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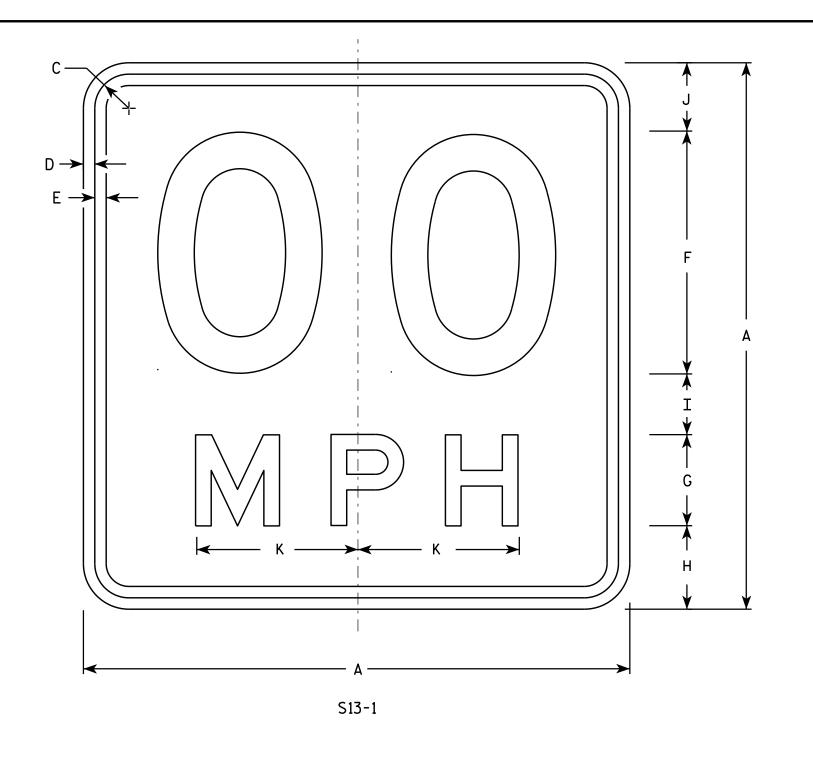
PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42

PLOT DATE: 30-SEP-2013 13:25







## NOTES

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

Background - Yellow-Green Message - Black

- 3. Message Series See Note 6
- 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 space about centerline to achieve proper balance.
- 6. Line 1 is Series D Line 2 is Series E

SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3∕8	3/8	8	3	2 3/4	2	2 1/4	5																2.25
25	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 %																4.00
2M	24		1 1/8	3∕8	1/2	10	4	4	2 3/4	3 1/4	6 %																4.00
3	24		1 1/8	3∕8	1/2	10	4	4	2 3/4	3 1/4	6 %																4.00
4																											
5																											

HWY: HOBBLES CREEK ROAD COUNTY: PRICE

STANDARD SIGN S13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Raud

For State Traffic Engineer

DATE 10/3/2013 PLATE NO. S13-1.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\S131.DGN

PROJECT NO: 8717-00-70

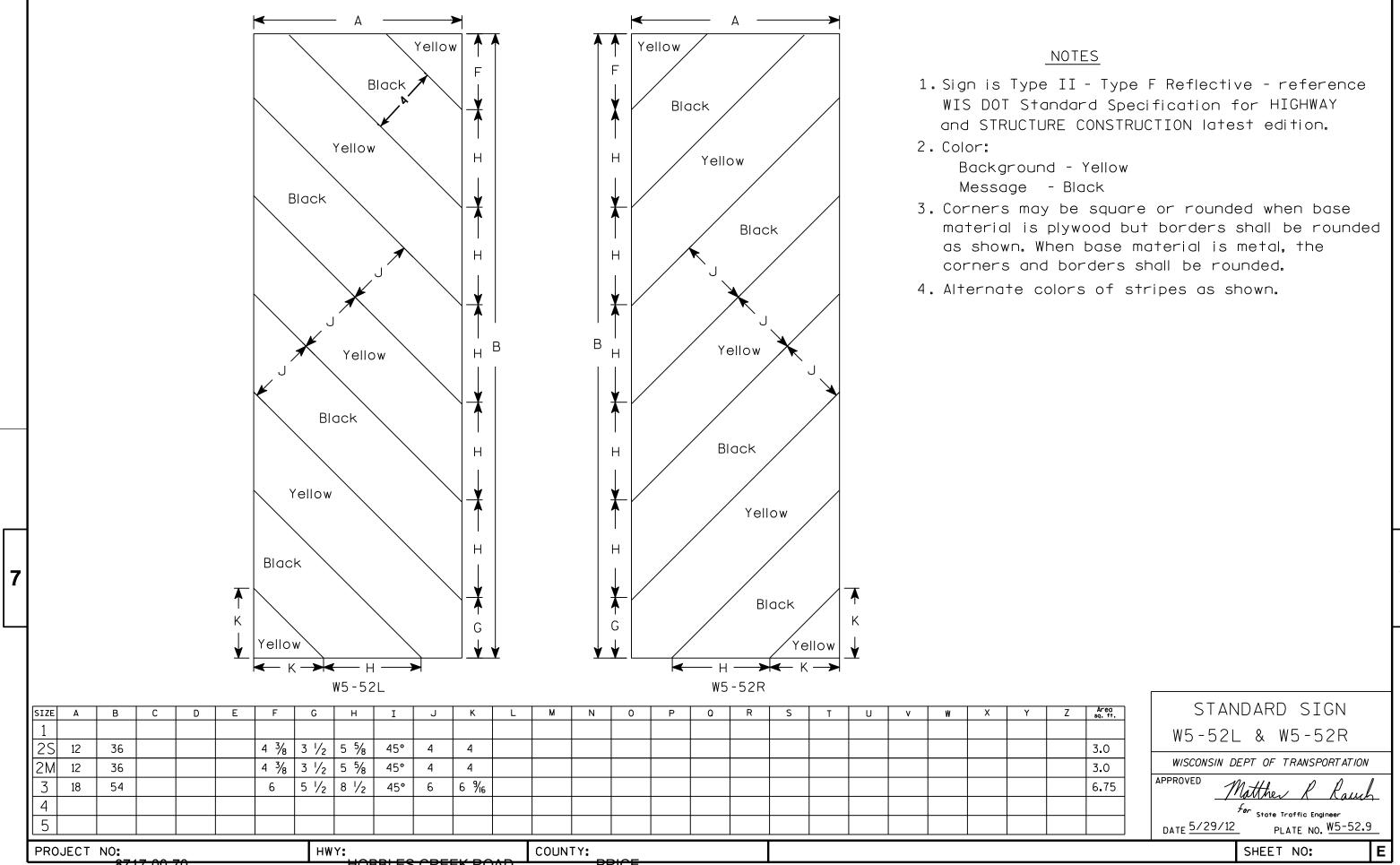
PLOT DATE: 03-0CT-2013 15:14

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 3.161993:1.000000

WISDOT/CADDS SHEET 42



FILE NAME : C:\CAERIES\FFQQCTSQr\_stdplate\W552.DGN

HOBBLES CREEK ROAD

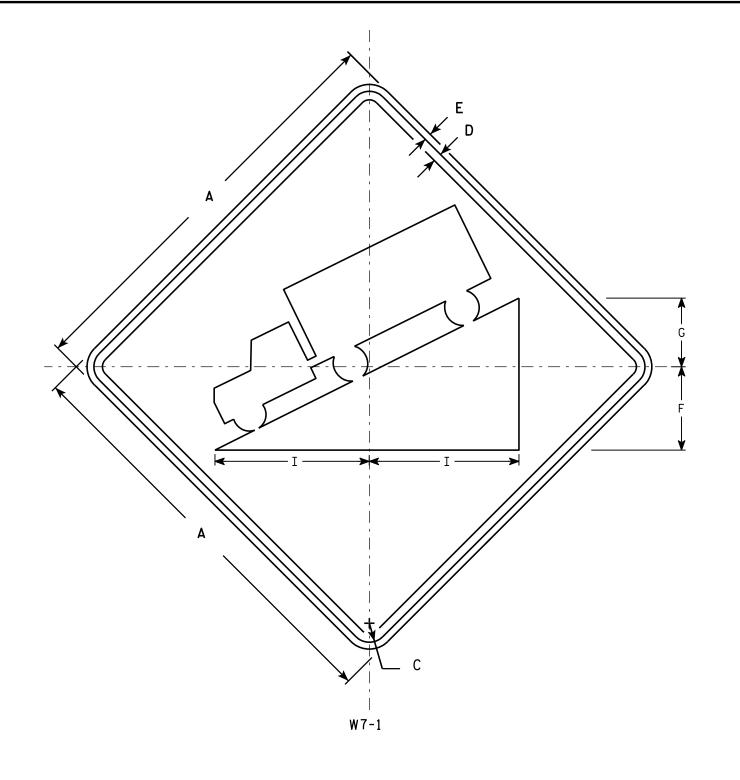
PRICE PLOT DATE: 29-MAY-2012 13:03

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 4.961899:1.000000

WISDOT/CADDS SHEET 42



## NOTES

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

Background - Yellow 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.

SIZE		Α	В	C	D	Е	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	ared sq. ft.
1		24		1 1/8	3∕8	3∕8	5	4		8 3/4																		4.0
25		30		1 3/8	1/2	5/8	6	5		11																		6.25
2N	1	36		1 5/8	5/8	3/4	7 1/4	6		13 1/4																		9.0
3		36		1 5/8	5∕8	3/4	7 1/4	6		13 1/4																		9.0
4		36		1 1/8	5∕8	3/4	7 1/4	6		13 1/4																		9.0
5		48		2 1/4	¾	1	9 3/4	8		17 1/2																		16.0

STANDARD SIGN W7-1

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED DATE 03/12/13

PLATE NO. W7-1.13

PROJECT NO: FILE NAME : C:\CAEP Ted Pr 9676 Pr\_stdplate\W71.DGN HWY: HOBBLES CREEK ROAD COUNTY:

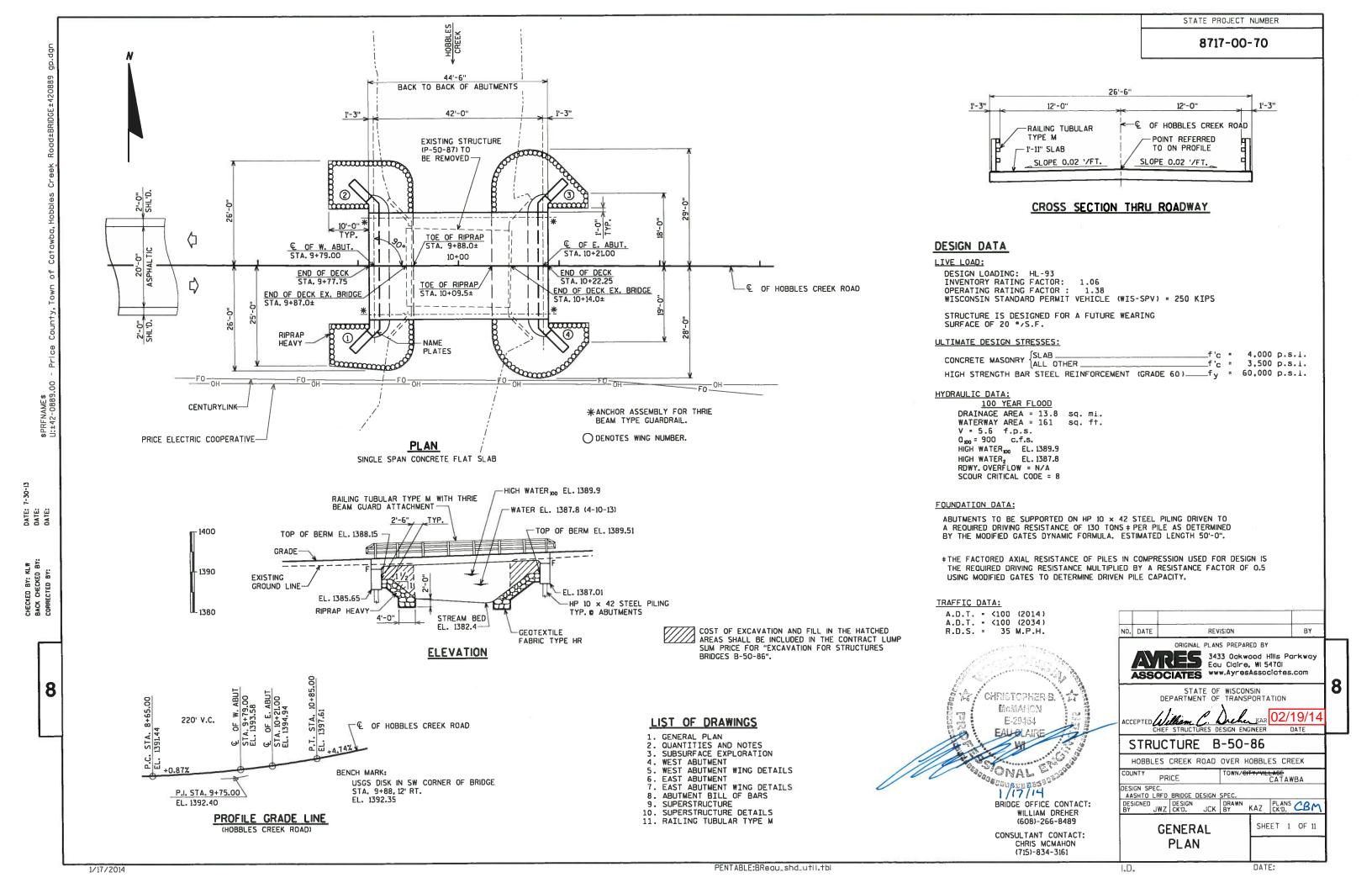
PRICE PLOT DATE: 12-MAR-2013 14:38

PLOT BY: mscsja

PLOT NAME :

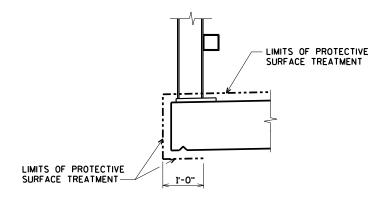
PLOT SCALE: 6.946657:1.000000

WISDOT/CADDS SHEET 42



### TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTAL
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+00	LS				1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-50-86	LS				1
210.0100	BACKFILL STRUCTURE	CY	75	75		150
502.0100	CONCRETE MASONRY BRIDGES	CY	24	24	88	136
502.3200	PROTECTIVE SURFACE TREATMENT	SY			160	160
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	2,020	2,020		4,040
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	720	720	13,970	15,410
513.4060	RAILING TUBULAR TYPE M B-50-86	LS				1
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9	9		18
550.1100	PILING STEEL HP 10-INCH × 42 LB	LF	250	250		500
606.0300	RIPRAP HEAVY	CY	65	75		140
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	70	70		140
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	135	155		290
	NON-BID ITEMS			·		
	FILLER	SIZE				1/2" & 3/4"



## PROTECTIVE SURFACE TREATMENT DETAIL

#### GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. 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 HEAVY TO THE EXTENT
SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS.

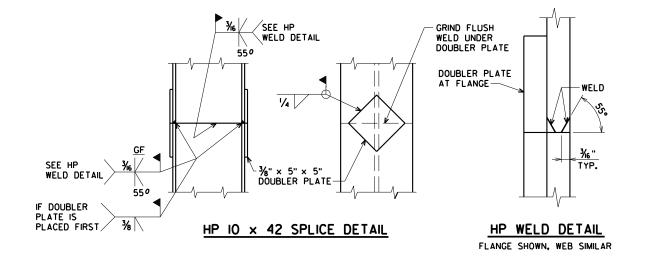
SLAB FALSEWORK SHALL BE SUPPORTED ON PILES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

THE EXISTING GROUND LINE SHALL BE THE UPPER LIMIT FOR EXCAVATION FOR STRUCTURES.

THE EXISTING STRUCTURE, P-50-87, TO BE REMOVED, IS A SINGLE SPAN STEEL DECK GIRDER BRIDGE, 27.0 FT. LONG WITH A 19.8 FT. CLEAR ROADWAY WIDTH.

AT BACKFACE OF ABUTMENTS ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.

PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED AS SHOWN IN DETAIL ON THIS SHEET.



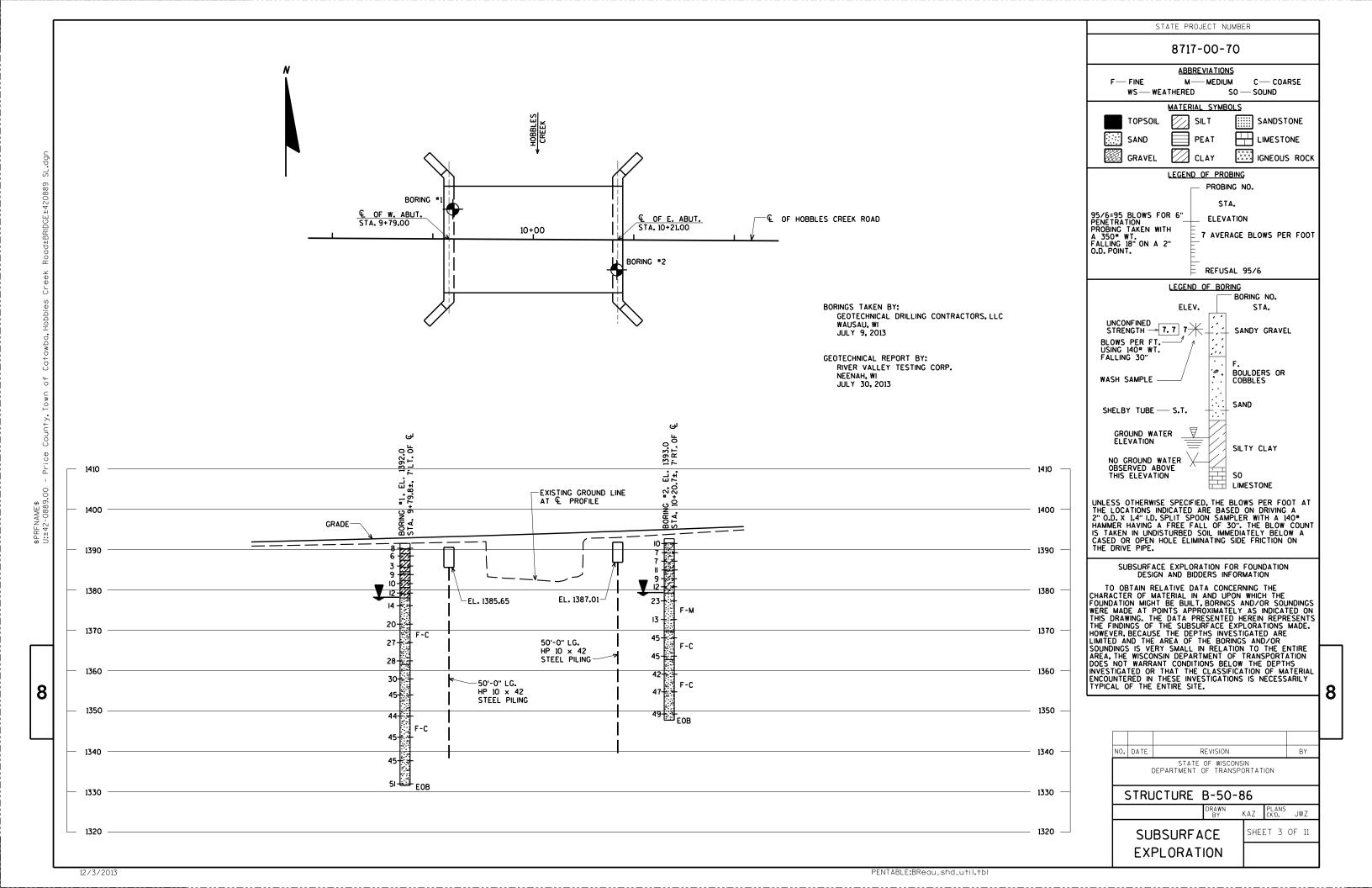
BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-50-86 PLANS CK'D. DRAWN BY KAZ JWZ SHEET 2 OF 11 **QUANTITIES** AND NOTES

8

ASSOCIATES

3433 Ockwood Hills Parkway
Edu Claire, WI 5470I

www.AyresAssociates.com



STATE PROJECT NUMBER

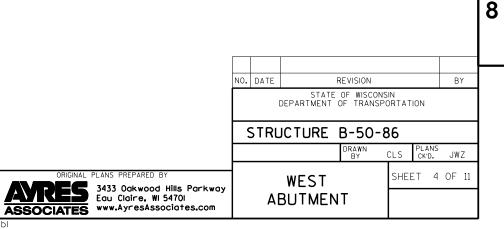
8717-00-70

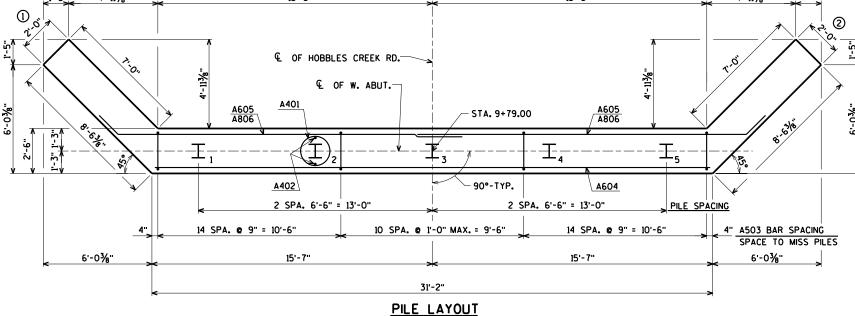
- OPT. KEYED CONST. JOINT FORMED BY A BEVELED 2" × 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.
- KEYED CONST. JOINT FORMED BY A BEVELED 2" x 6".
- ▼ VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING WALL.

FOR PILE SPLICE DETAIL SEE SHEET 2.

B.F. DENOTES BACK FACE

F.F. DENOTES FRONT FACE





RODENT SHIELD DETAIL

8

1/17/2014

ATES 3433 Oakwood Hills Parkway

Eau Claire, WI 54701

8

SHEET 5 OF 11

WEST

**ABUTMENT** 

WING DETAILS

31'-2"

PILE LAYOUT

STATE PROJECT NUMBER

8717-00-70

- OPT. KEYED CONST. JOINT FORMED BY A BEVELED 2" x 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.
- KEYED CONST. JOINT FORMED BY A BEVELED 2" × 6".
- ▼ VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING WALL.

FOR PILE SPLICE DETAIL SEE SHEET 2.

B.F. DENOTES BACK FACE

F.F. DENOTES FRONT FACE

BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-50-86 CLS PLANS CK'D. JWZ SHEET 6 OF 11 EAST ATRES 3433 Oakwood Hills Parkway Eau Claire, WI 54701 **ABUTMENT** 

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ASSOCIATES www.AyresAssociates.com

12/3/2013

PENTABLE:BReau\_shd\_util.tbl

1-1

B507 BARS MAY BE PLACED AFTER ABUT.

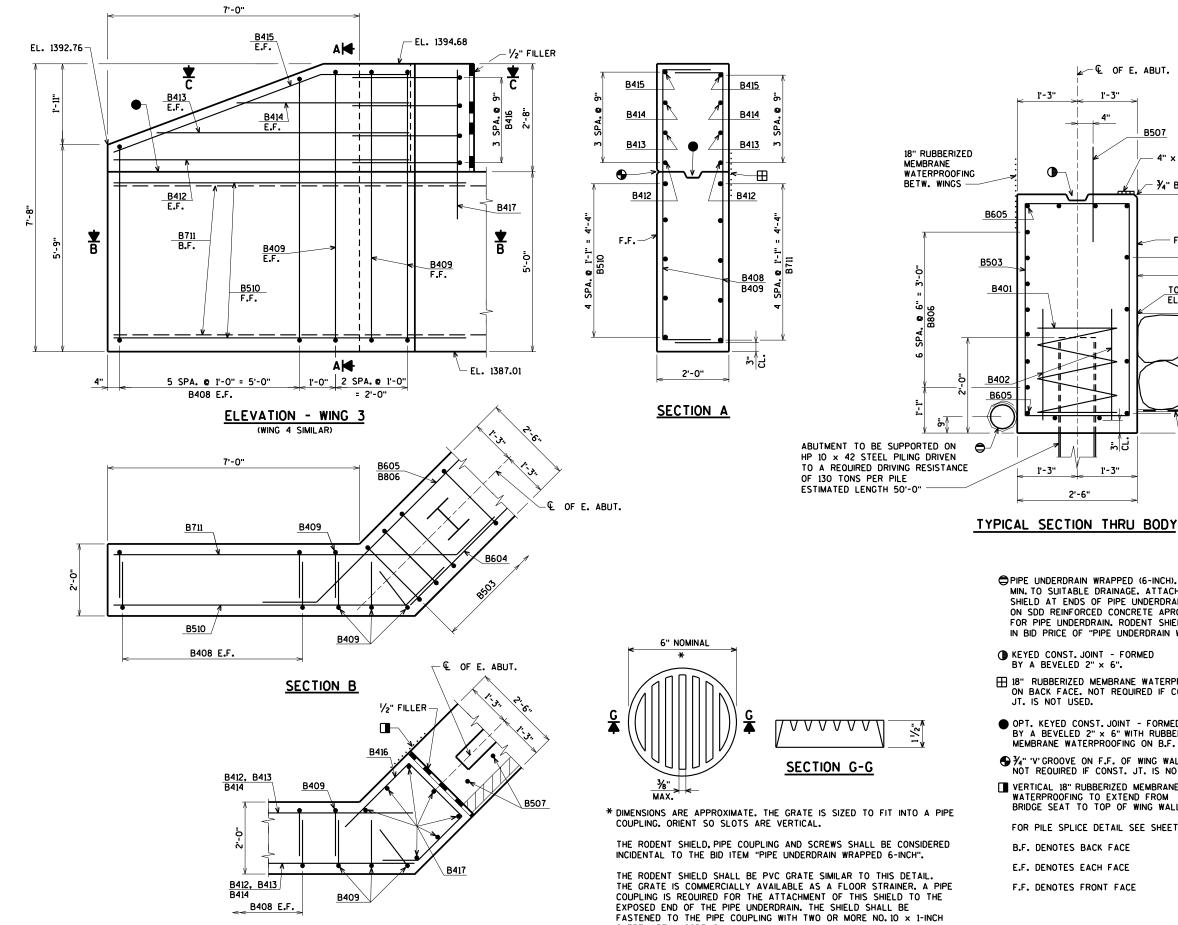
IS POURED BUT BEFORE

CONC. HAS SET. IMBED

RIPRAP HEAVY

GEOTEXTILE FABRIC TYPE HR

EXCAVATE OR FILL TO BOTTOM OF ABUTMENT BEFORE DRIVING PILES. 8717-00-70



SECTION C

SHEET METAL SCREWS.

RODENT SHIELD DETAIL

2'-6"

1'-3"

⇒PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SDD REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

B507

4" x ¾" FILLER

2'-6"

TOP OF BERM EL. 1389.51

ALL HORIZONTAL BARS IN

SHOWN OTHERWISE.

BODY ARE B604 BARS UNLESS

- ¾" BEVEL

1'-3"

- ♠ KEYED CONST. JOINT FORMED
- 18" RUBBERIZED MEMBRANE WATERPROOFING ON BACK FACE. NOT REQUIRED IF CONST.
- OPT. KEYED CONST. JOINT FORMED
  BY A BEVELED 2" × 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.
- ⊕ ¾" 'V' GROOVE ON F.F. OF WING WALL NOT REQUIRED IF CONST. JT. IS NOT USED.
- VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING WALL.
- FOR PILE SPLICE DETAIL SEE SHEET 2.
- B.F. DENOTES BACK FACE
- E.F. DENOTES EACH FACE
- F.F. DENOTES FRONT FACE

NO. DATE BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-50-86 CLS PLANS CK'D. JWZ EAST SHEET 7 OF 11

**ABUTMENT** 

WING DETAILS

8

AYRES 3433 Oakwood Hills Parkway Eau Claire, WI 54701

8

#### BILL OF BARS - WEST ABUTMENT

		יובר ל	JF DA	١١,	_		WEST ADDIMENT
BAR. NO.	D BAR	REO'D.	LENGTH	BAR	BUNDLED	SERIES	2,020 UNCOATED 720 COATED
BAR	COATED	NO.	rEN	1	BUN	BAR	
A401		5	28-0	х			BODY @ PILES
A402		10	2-3				BODY @ PILES
A503		39	13-10	Х			BODY VERT.
A604		9	30-11				BODY HORIZ. F.F.
A605		4	20-6				BODY HORIZ. B.F.
A806		14	21-7	Х			BODY HORIZ. B.F.
A507	Х	26	2-0				BODY DOWELS
A408	Х	24	8-7			8	WINGS 1 & 2 VERT. E.F.
A409	х	8	9-9				WINGS 1 & 2 VERT. E.F.
A510	х	10	9-6				WINGS 1 & 2 HORIZ. F.F.
A711	х	10	11-2	х			WINGS 1 & 2 HORIZ. B.F.
A412	Х	4	8-3				WINGS 1 & 2 HORIZ. E.F.
A413	Х	4	6-2				WINGS 1 & 2 HORIZ. E.F.
A414	Х	4	4-1				WINGS 1 & 2 HORIZ. E.F.
A415	Х	4	8-6	Х			WINGS 1 & 2 DIAG. E.F.
A416	Х	8	8-5	X			WINGS 1 & 2 HORIZ.
Δ417	Х	14	3-10				WINGS 1 & 2 VERT.
	$\Box$						

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

- ⊗LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.
- B.F. DENOTES BACK FACE
- E.F. DENOTES EACH FACE
- F.F. DENOTES FRONT FACE

### BAR SERIES TABLE

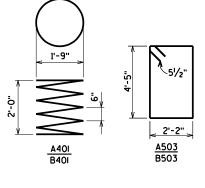
BAR MARK	NO REO'D.	LENGTH										
A408	4 SERIES OF 6	7'-10" TO 9'-4"										
B408	4 SERIES OF 6	7'-10" TO 9'-4"										
BUNDLE AND TAG EACH SERIES SEPARATELY.												

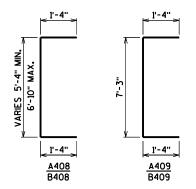
### BILL OF BARS - EAST ABUTMENT

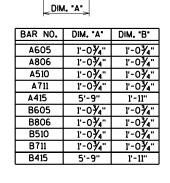
BAR. NO.	TED BAR	REO'D.	LENGTH	IT BAR	ızı	SERIES	2,020ª UNCOATED 720ª COATED
ВА	COATED	NO.	37	BENT	B	BAR	LOCATION
B401		5	28-0	X			BODY @ PILES
B402		10	2-3				BODY @ PILES
B503		39	13-10	Х			BODY VERT.
B604		9	30-11				BODY HORIZ. F.F.
B605		4	20-6				BODY HORIZ. B.F.
B806		14	21-7	X			BODY HORIZ. B.F.
B507	X	26	2-0				BODY DOWELS
B408	X	24	8-7	х	Ш	8	WINGS 3 & 4 VERT. E.F.
B409	X	8	9-9	X	Ш		WINGS 3 & 4 VERT. E.F.
B510	X	10	9-6	_	Ш		WINGS 3 & 4 HORIZ. F.F.
B711	X	10	11-2	X	Ш		WINGS 3 & 4 HORIZ. B.F.
B412	X	4	8-3		Ш		WINGS 3 & 4 HORIZ. E.F.
B413	X	4	6-2				WINGS 3 & 4 HORIZ. E.F.
B414	X	4	4-1		Ш		WINGS 3 & 4 HORIZ. E.F.
B415	X	4	8-6	х	Ш		WINGS 3 & 4 DIAG. E.F.
B416	X	8	8-5	х	Ш		WINGS 3 & 4 HORIZ.
B417	X	14	3-10	Ц	Ц		WINGS 3 & 4 VERT.
	Ц			L	Ц		
	Ш			oxdot	Ш		
	1			ı	ıl		

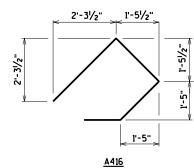
STATE PROJECT NUMBER

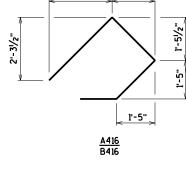
8717-00-70

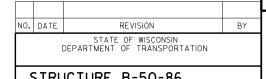












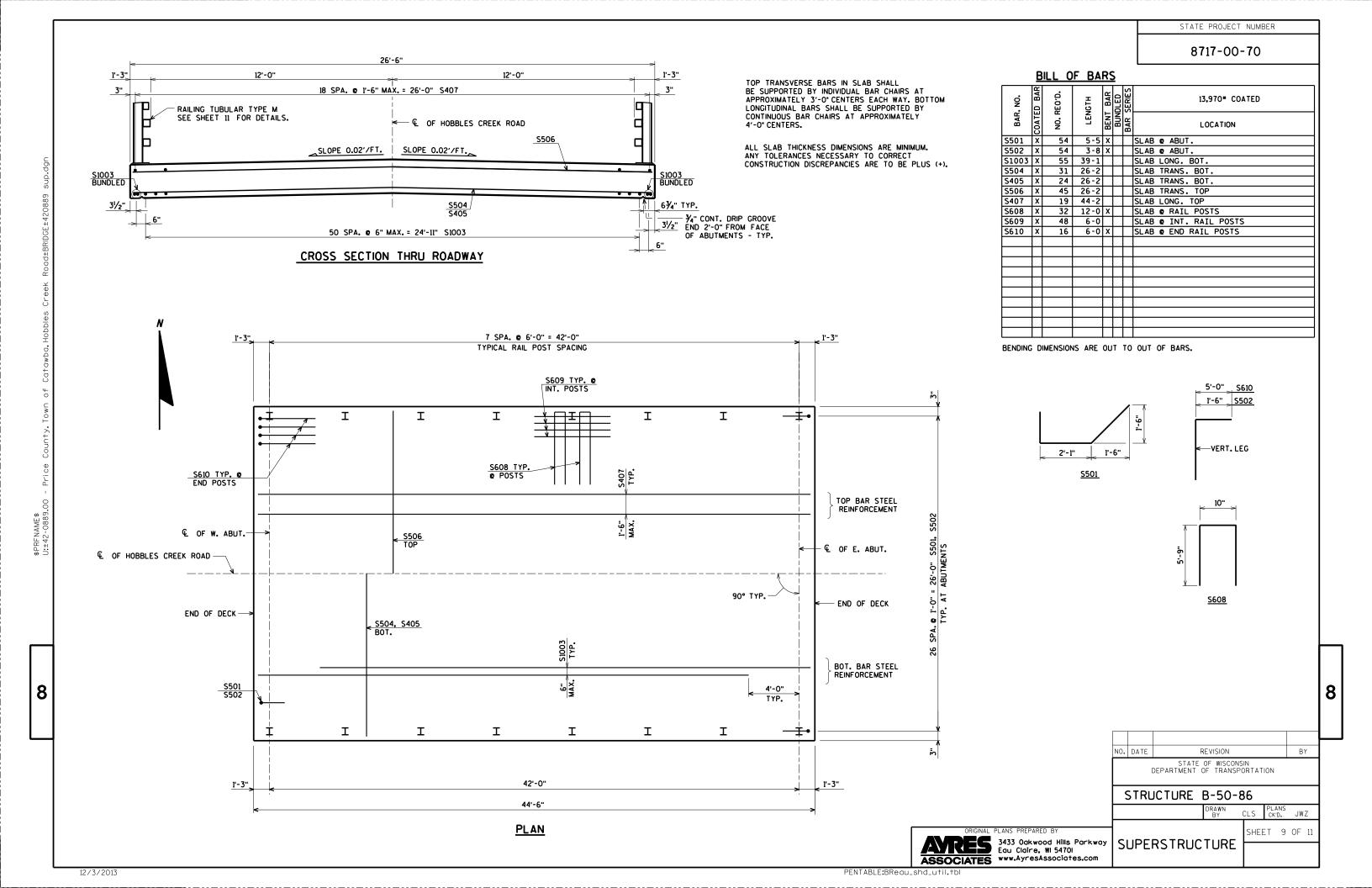
ABUTMENT BILL OF BARS

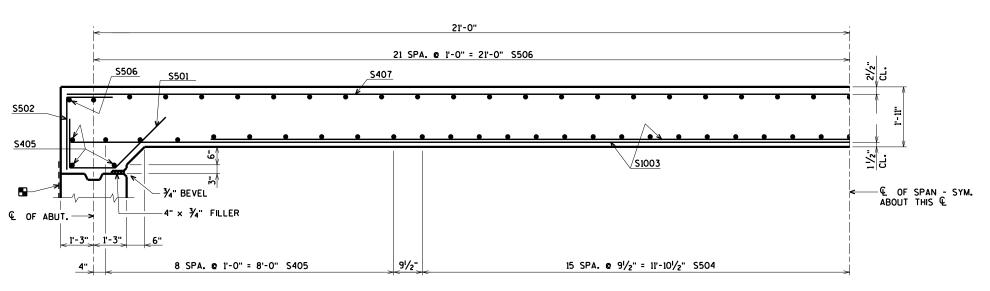
STRUCTURE B-50-86 CLS PLANS CK'D. JWZ SHEET 8 OF 11

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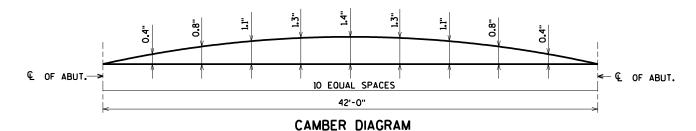
12/3/2013





PART LONGITUDINAL SECTION

■ 18" RUBBERIZED MEMBRANE WATERPROOFING



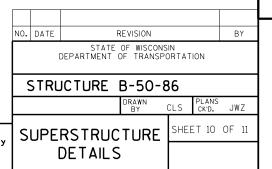
CAMBER SPANS AS SHOWN TO PROVIDE FOR DEADLOAD DEFLECTION & FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE  ${\mathfrak L}$  OF ABUTMENTS AND 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND CROWN OR  ${\mathfrak L}$ .

#### TOP OF DECK ELEVATIONS

LOCATION	€ OF W. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	€ OF E. ABUT.
N. EDGE OF SLAB	1393.32	1393.43	1393.56	1393.69	1393.82	1393.95	1394.09	1394.23	1394.38	1394.52	1394.68
€ OF STRUCTURE	1393.58	1393.70	1393.82	1393.95	1394.08	1394.22	1394.36	1394.50	1394.64	1394.79	1394.94
S. EDGE OF SLAB	1393.32	1393.43	1393.56	1393.69	1393.82	1393.95	1394.09	1394.23	1394.38	1394.52	1394.68

ELEVATIONS SHOWN ARE FINISHED DECK AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION AND FUTURE CREEP.



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ORIGINAL PLANS PREPARED BY

ASSOCIATES

ORIGINAL PLANS PREPARED BY

3433 Oakwood Hills Parkway
Edu Claire, WI 5470I
www.AyresAssociates.com

8717-00-70

#### **LEGEND**

- W6 x 25 WITH 11/8" X 11/2" HORIZ. SLOTS ON EACH SIDE OF POST FOR BOLT NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- 2 PLATE 1½" × 11¾" × 1-8" WITH 1½" X 1½" SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. SLOTS PARALLEL TO SHORT SIDE OF PLATE.
- (3) ASTM A449 11/8" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REO'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1" 9" LONG THE NO. 2. CHAMFER TOP OF BULL'S BEFORE THREADING. USE 19 COMMINA BRUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1-3" LONG. USE 10¾" LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REO'D. FOR CONSTRUCTIBILITY.)
- (5) TS 5 x 4 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- (5A) TS 5 x 5 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- ) ½" DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, ¾" X 1½" X 1½" WASHER, AND LOCK WASHER (2 REO'D. AT EACH RAIL TO POST LOCATION.)
- 1/2" THK. BACK-UP PLATE WITH 2 1/8" X 11/2" THREADED SHOP WELDED STUDS (NO. 12). BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES NO. 5A.
- (8) I" DIA. HOLES IN PLATE NO. 7 & TUBES NO. 5A FOR %" DIA. A325 BOLTS WITH HEX NUTS AND WASHERS. 6 HOLES IN TUBES AND PLATE NO. 7.
- (9) SPLICE SLEEVE FABRICATED FROM 4" PLATE. PROVIDE "SLIDING FIT".
- (10) 38" X 358" X 2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.
- (0) %" X 2%" X 2'-4" PLATE USED IN NO. 5, %" X 3%" X 2'-4" PLATE USED IN NO. 5A. 2 PER RAIL.
- 1/4" ♦ A325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER, USE 1/4" LONGIT. SLOTTED HOLES AT FIELD JOINTS AND 1/4" × 21/4" → MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 10A.
- (12) 1/8" DIA. X 11/2" LONG THREADED SHOP WELDED STUDS (2 REO'D).
- (3) 1/8" X 8" X 1'-6" PLATE. BOLT TO RAIL AS SHOWN IN DETAIL. REO'D. AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYM. ABOUT TUBES NO. 5A.
- (14) 1/8" DIA. X 2" LONG A325 HEX BOLT WITH NUT AND WASHER (5 REQ'D.).
- $^{(5)}$  1"  $^{\phi}$  holes in Tubes no.5a for  $^{\prime\prime}_{8}$ " Dia. A 325 round head bolt with nut, washer and lock washer (4 reo'D.). 4 holes in Tubes.

#### BACK-UP PLATE DETAIL (AT BEAM GUARD ATTACHMENT)

1"# HOLES TYP.

(12)

€ RAIL POST

11/8" X 11/2" HORIZ. SLOTS IN POST —

15/8"

SECTION THRU POST WEB

SECTION THRU RAIL

TYPICAL RAIL TO POST CONNECTIONS

2" | >

- 1" # HOLES FOR 1/8" # HEX BOLTS

NOTE: CONNECTIONS AT LOWER RAILS SHOWN. CONNECTIONS AT TOP RAIL SIMILAR.

4'-2"

€ TS

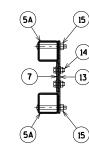
## **GENERAL NOTES**

- 1" Ø HOLE

- BID ITEM SHALL BE "RAILING TUBULAR TYPE M B-50-86" WHICH INCLUDES ALL ITEMS SHOWN.
- 2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.

(12)

- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.
- 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE. RAILS SHALL BE SPLICED IN A PANEL
- ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
- 6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
- 7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER, STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REO'D.
- 8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL, ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.
- 9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.
- 10. WHEN PAINTING IS REQUIRED, ALL MATERIAL EXCEPT ANCHORAGE DETAIL(NO. 3 & 4) SHALL BE PAINTED OVER GALVANIZING WITH APPROVED THE COATAND TOP COAT.
- 11. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST
- 12. PLACE FIRST BOTTOM LONGITUDINAL BAR CLEAR OF DRIP GROOVE.



SECTION C



SECTION D

CK'D. JWZ

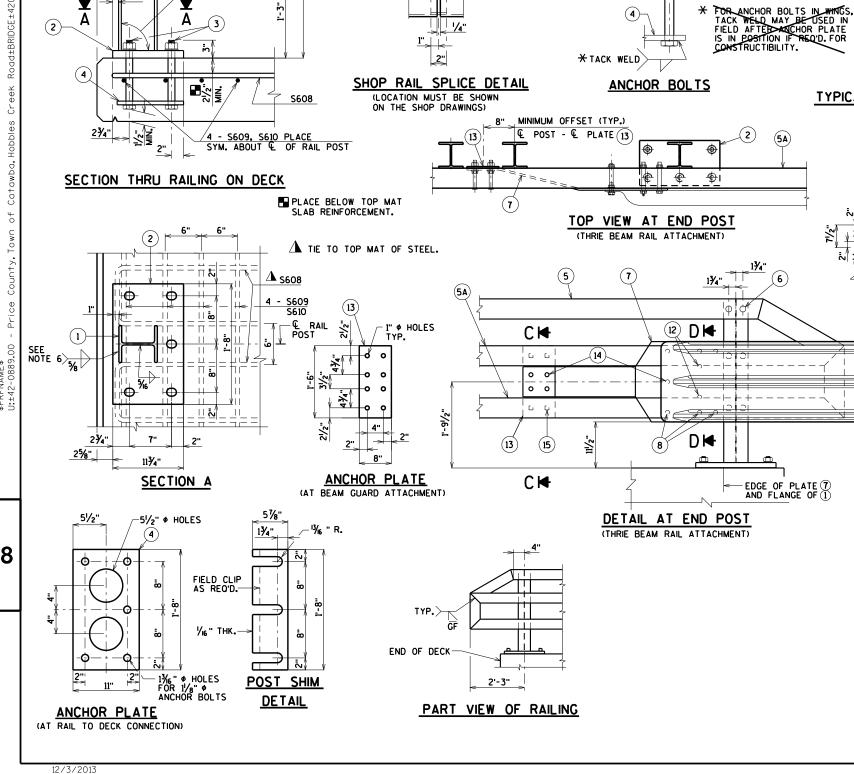
SHEET 11 OF 11

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-50-86

RAILING TUBULAR TYPE M



→ K T FIELD JTS.

1'-2"

PROVIDE 1/2" DRAIN HOLES IN LOW END OF ALL RAILS CLEAR OF SPLICE TUBE

FIELD ERECTION JOINT DETAIL

J 1/4"

5"

(OA)-

SECTION B

HARDENED

**(4)**-

WASHER-

(5A)

1/4

PROJECTION

CONCRETE

B₩

(10)(10A)-

ARES 3433 Oakwood Hills Parkway Eau Claire, WI 54701 ASSOCIATES www.AyresAssociates.com

1'-3"

4"

THIS FACE TO

BE VERTICAL

88°51'15

6%"

(1)

(2)

25/8"

#### \*EARTHWORK SUMMARY (CATEGORY 0010)

		AREA			INCREMENTAL VOLUME			CUMULATIVE VOLUME			
		CUT	SALVAGED/ UNUSEABLE PAVEMENT MATERIAL	$ ext{FILL}$	CUT (1)	SALVAGED/ UNUSEABLE PAVEMENT MATERIAL (2)	FILL (3)	CUT (1) 1.00	EXPANDED FILL (4)	MASS ORDINATE ±(5)	
DIVISION	STATION	SF	SF	SF	CY	CY	CY	CY	CY	CY	
1	8+50	30	0	0							
Hobbles Creek Road		28	0	23	27	0	11	27	14	13	
	9+00	22	0	34	23	0	27	50	49	1	
	9+25	15	0	43	17	0	36	67	96	-29	
	9+50	3	0	69	8	0	52	75	164	-89	
	9+77.75	3	0	70	3	0	71	78	256	-178	
	STRUCTURE (B-50-86)										
	10+22.25	45	0	1	46	0	1	124	257	-133	
	10+50	45	0	1	52	0	0	176	257	-81	
	10+75	68	0	0	68	0	0	244	257	-13	
	11+00	78	0	0	76	0	0	320	257	63	
	11+25	86	0	0	55	0	0	375	257	118	
	11+50	34	0	0							
TOTALS					375	0	198				
		205.0100 EXCAVATION COMMON =			SAY 375	SAY 375			208.0100 BORROW = SAY 178		

#### NOTES:

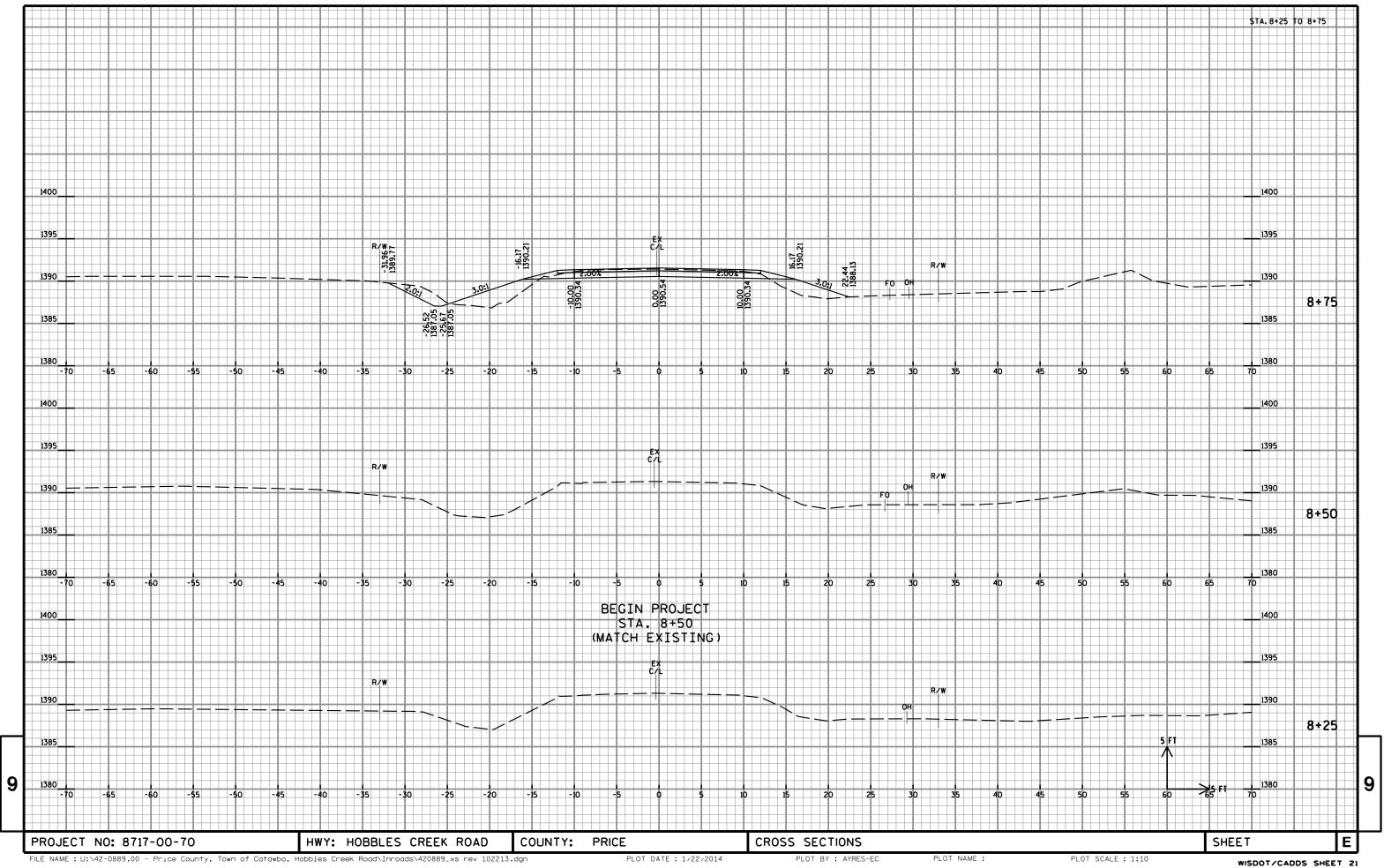
- 1) EXCAVATION COMMON IS THE SUM OF THE CUT COLUMN. ITEM NUMBER 205.0100
- 2) SALVAGED/UNUSEABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- 3) DOES NOT INCLUDE UNUSABLE PAVEMENT EXCAVATION VOLUME.
- 4) EXPANDED FILL FACTOR = 1.30 EXPANDED FILL = UNEXPANDED FILL \* FILL FACTOR
- 5) THE MASS ORDINATE  $\pm$  QTY CALCULATED FOR THE DIVISION.

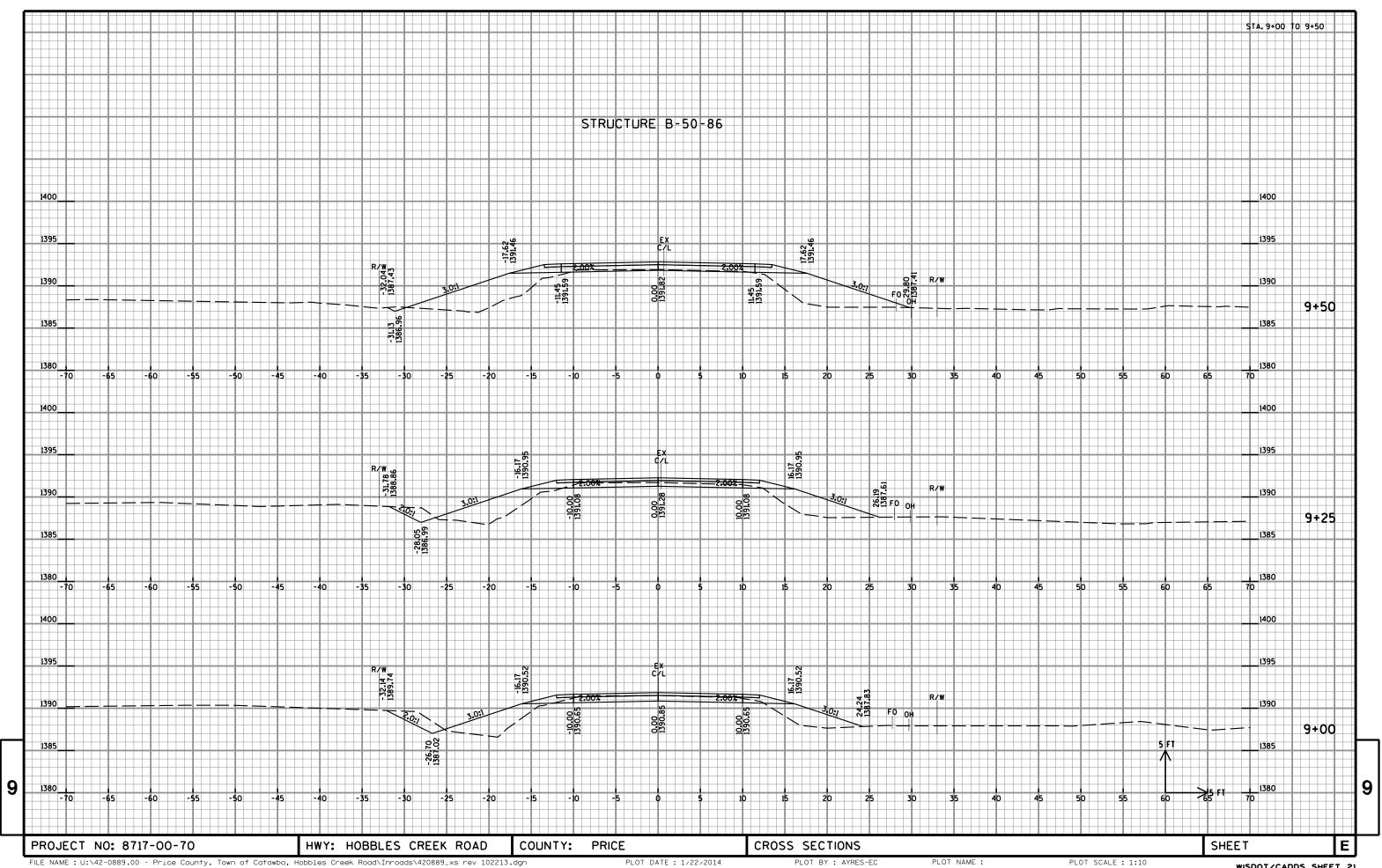
PLUS (+) QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS (-) QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

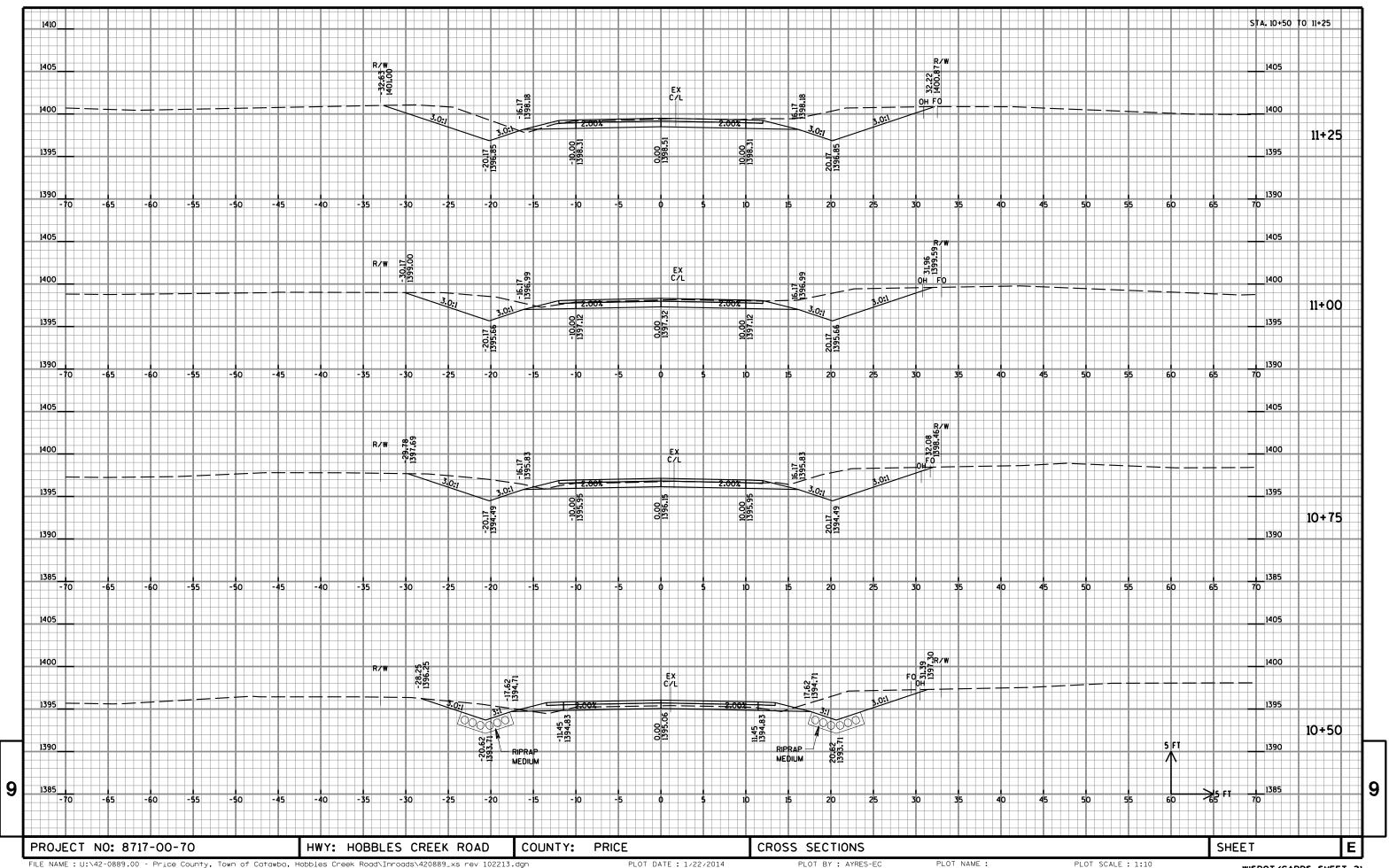
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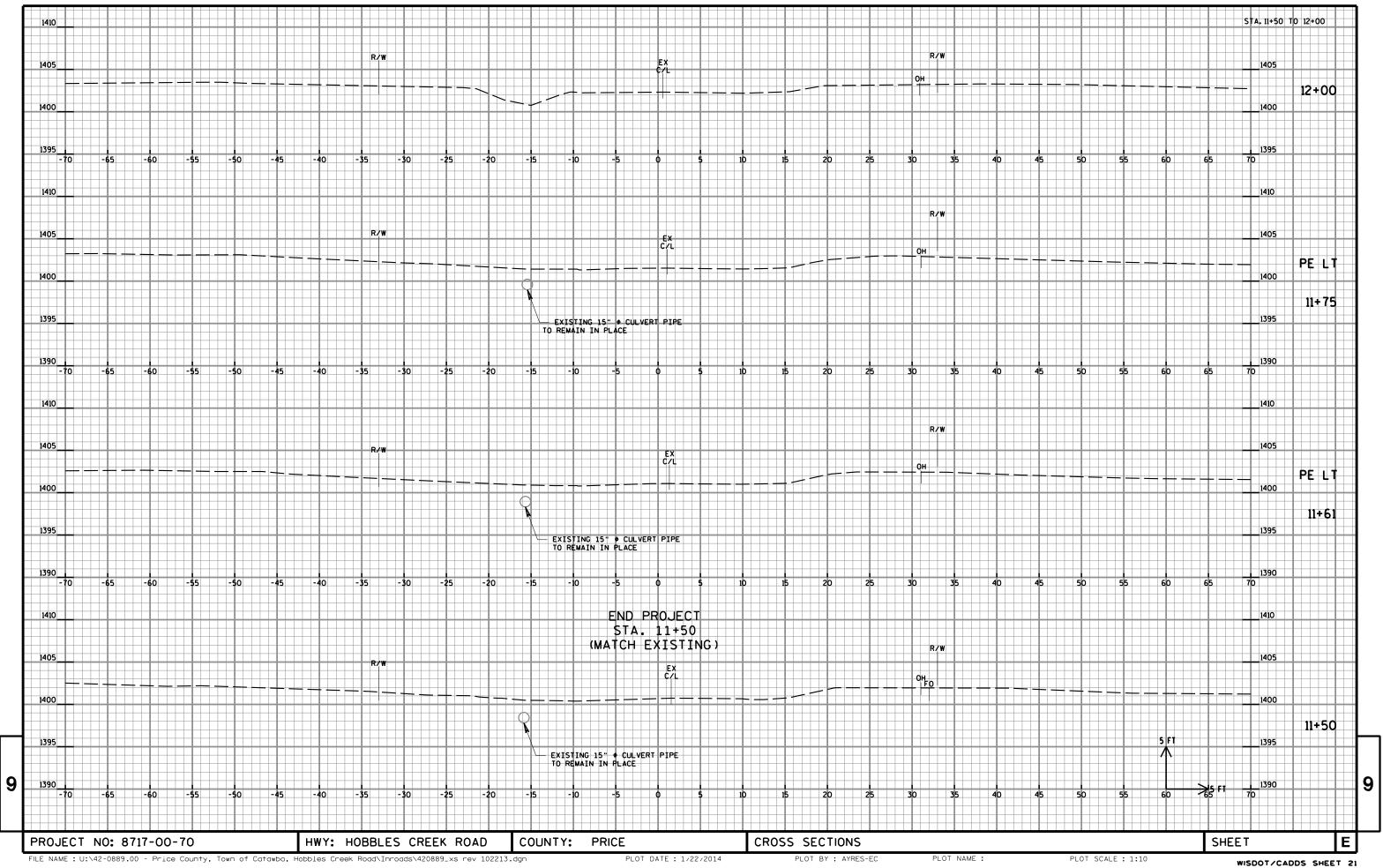
9

PROJECT NO: 8717-00-70 HWY: HOBBLES CREEK ROAD COUNTY: PRICE EARTHWORK SUMMARY SHEET E











# Wisconsin Department of Transportation

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