NOV 2015

ORDER OF SHEETS

Section No.	1	litle
Section No.	2	Typical Sections and Detail
Section No.	3	Estimate of Ouantitles

Section No. 3 Miscellaneous Quantities

Right of Way Plat

Plan and Profile (Includes Erosion Control)

Standard Detail Drawings

Sian Plates

Structure Plans Computer Earthwork Data Section No. 9

Cross Sections Section No. 9

TOTAL SHEETS = 42

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

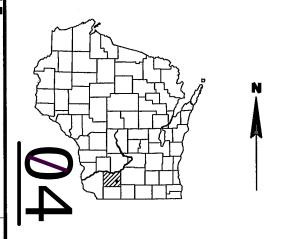
CTH K - CTH H

(EAST BRANCH PECATONICA RIVER BRIDGE B-25-0172)

CTH HK

BEGIN PROJECT STA. 8+00.00 Y = 136,542.53X = 438,212.28 **IOWA COUNTY**

STATE PROJECT NUMBER 5106-00-75



DESIGN DESIGNATION

= 70 A.A.D.T. 2034 D.H.V. = 15 = 50/50 D.D. = 8.4% DESIGN SPEED = 50 MPH = 21,900

CONVENTIONAL SYMBOLS

PLAN CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT

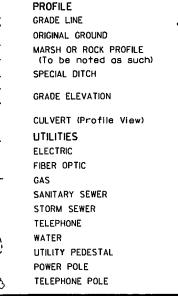
COMBUSTIBLE FLUIDS

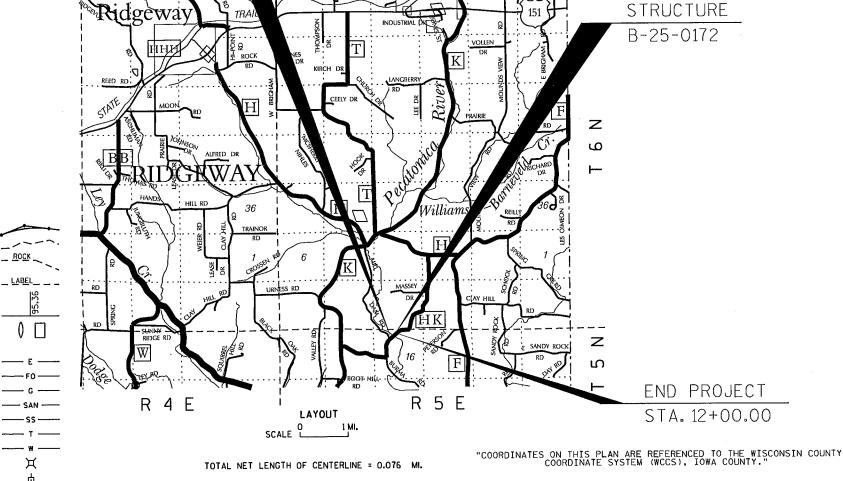
PROPOSED CULVERT

(Box or Pipe)

MARSH AREA

WOODED OR SHRUB AREA





FEDERAL PROJECT STATE PROJECT CONTRACT PROJECT WISC 2015180 5106-00-75

ACCEPTED FOR

ORIGINAL PLANS PREPARED BY



1 International Lane, Suito 300 Madison, WI 53704-3133 608-242-7779 1-800-446-0679 Fax: 608-242-5664



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor Designer

MSA PROFESSIONAL SERVICES MSA PROFESSIONAL SERVICES

KJOHNSON ENGINEERS, INC.

PLOT SCALE: 1:400

EXISTING TYPICAL SECTION

CUT SECTION FILL SECTION SEEDING MIXTURE #20*, SEEDING TEMPORARY, CLEAR ZONE = 14'TYP. & FERTILIZER TYPE B LIMITS SEEDING MIXTURE #20*, SEEDING TEMPORARY, 20.45 MULCHING LIMITS & FERTILIZER TYPE B LIMITS CLEAR ZONE = 14 TYP. SALVAGED TOPSOIL LIMITS 5.45 MULCHING LIMITS SALVAGED TOPSOIL POINT REFERRED TO ON PROFILE AS & LIMITS OR R/W 2.0% OR R/W 2.0% 4.0% 4.0% 4:1 NOR. 4:1 NOR. BOTTOM 5' \star POINT REFERRED TO ON CROSS SECTIONS AS & 4" ASPHALTIC SURFACE -BASE AGGREGATE DENSE 3/4-INCH (TYP.) -12" BASE AGGREGATE DENSE 1 1/4-INCH *USE SEEDING MIXTURE #40 IN THE LAWN AREA. TYPICAL SECTION

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
		A B			C D							
	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT		(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	.12	.20 .34	.27	.15	.24 .37	.33	.19	.28	.38
MEDIAN STRIP- TURF	.19	.20	.24	.19	.22	.26 .33	.20	.23	.30	.20	.25	.30
SIDE SLOPE- TURF			.25 .32			.27			.28 .36			.30 .38
PAVEMENT:			I			1			1	1		
ASPHALT					.7095							
CONCRETE				.8095								
BRICK				.7080								
DRIVES, WALKS					.7585							
ROOFS						.7595						
GRAVEL ROADS,	SHOULDE	ERS				.4060		·				

TOTAL PROJECT AREA = 0.86 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.76 ACRES

HWY: CTH HK

GENERAL NOTES

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

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

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

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD88 BENCHMARK WITH ELEVATION OF 1064.80 LOCATED ADJACENT TO CLAY HILL ROAD, 2.1 MILES NORTHEAST OF THE EXISTING BRIDGE, THE STATION IS A BRONZE WISDOT GEODETIC SURVEY CONTROL STATION DALEYVILLE GPS "DH5236".

THE 4" ASPHALTIC SURFACE SHALL BE CONSTRUCTED USING A 2.25" LOWER LAYER AND A 1.75" UPPER LAYER.

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

TEMPORARY DITCH CHECKS, IF NEEDED, SHALL BE PLACED AS DIRECTED BY THE ENGINEER.

THE ASPHALTIC SURFACE SHALL TAPER FROM 30.5 FEET AT THE END OF THE BRIDGE TO 22.0 FEET AT \pm 30 FEET FROM THE BRIDGE ENDS.

IOWA COUNTY WILL REMOVE EXISTING SIGNS AND POSTS INSIDE THE PROJECT AREA. CONTRACTOR TO NOTIFY IOWA COUNTY 5 WORKING DAYS BEFORE SIGNS NEED TO BE REMOVED.

WETLANDS EXIST AT STA. 9+00 TO STA. 12+00, RT AND STA. 10+00 TO STA. 12+00, LT. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE SLOPE INTERCEPT IN THESE AREAS.

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN: MICHAEL J. STATZ, P.E. 2901 INTERNATIONAL LANE, SUITE 300 MADISON, WI 53704-3133 PHONE: (608) 242-7779 EMAIL: MSTATZeMSA-PS.COM

IOWA COUNTY ATTN: CRAIG HARDY, COMMISSIONER 1215 NORTH BEQUETTE STREET DODGEVILLE, WI 53533 PHONE: (608) 935-3381

EMAIL: CRAIG.HARDY@IOWACOUNTY.ORG

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES ATTN: ANDY BARTA ENVIRONMENTAL REVIEW AND ANALYSIS SPECIALIST 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711-5397

EMAIL: ANDREW.BARTA@WISCONSIN.GOV

UTILITIES

TELEPHONE: FRONTIER ATTN: DANA GILLETT 301 DIVISION STREET DODGEVILLE, WI 53533 PHONE: (608) 837-1605 EMAIL: dana.gillett@ftr.com

**-DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS



www.DiggersHotline.com

TYPICAL SECTION AND GENERAL NOTES

SHEET

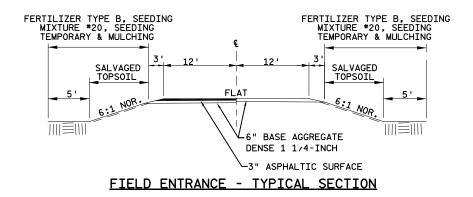
EET

PROJECT NO: 5106-00-75

COUNTY: IOWA

PHONE: (608) 275-3308

Ε

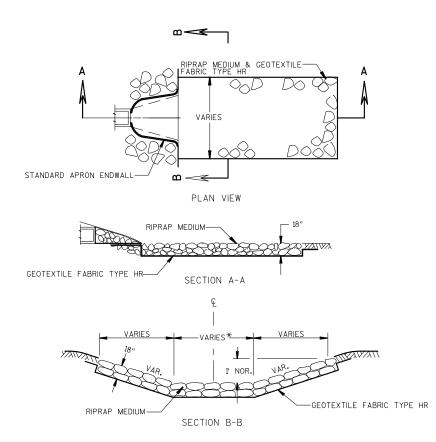


20'R. (TYP.) 20' 12' BASE AGGREGATE DENSE SHOULDER & F.E. ASPHALTIC SURFACE

EDGE OF PAVEMENT

FIELD ENTRANCE PLAN

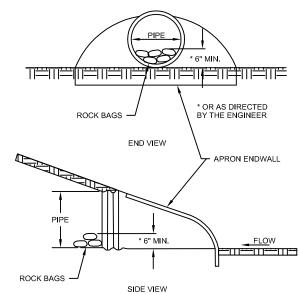
FIELD ENTRANCE DETAILS



*WIDTH IS FIVE FEET IN ROAD SIDE DITCH AND ZERO FEET AT RIPRAP FLUME.

RIPRAP MEDIUM AND GEOTEXTILE FABRIC HR DITCH DETAIL AND AT APRON ENDWALLS

ESTIMATED BAG SIZE = 24" x 12" x 6"							
PIPE SIZE	ESTIMATED NO. OF BAGS						
12"	1						
18"	2						
24"	3						
30"	5						
48"	10						
54"	10						
60"	13						
72"	16						
	PIPE SIZE 12" 18" 24" 30" 48" 54" 60"						



CULVERT PIPE CHECKS

PROJECT NO: 5106-00-75 HWY: CTH HK COUNTY: IOWA TYPICAL SECTION AND GENERAL NOTES SHEET E

DATE 24 LINE	AUG15	E S	STIMAT	E OF QUAN	T I T I E S 5106-00-75
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0010	201. 0105	Clearing	STA	3.000	3. 000
0020 0030	201. 0205 203. 0100	Grubbing Removing Small Pipe Culverts	STA EACH	3. 000 1. 000	3. 000 1. 000
0050		Removing Small Fife Curverts Removing Old Structure Over Waterway	LS	1. 000	1. 000
		With Minimal Debris (station) 02. 10+00 5106-00-75			
0060	205. 0100	Excavation Common	CY	514. 000	514. 000
0800	206. 1000	Excavation for Structures Bridges (structure) 02. B-25-0172	LS	1. 000	1. 000
0090	208. 0100	Borrow	CY	184. 000	184. 000
0100	210. 0100	Backfill Structure Finishing Roadway (project) 02.	CY EACH	260. 000 1. 000	260. 000 1. 000
0120	213. 0100	5106-00-75			
0130	305. 0110	Base Aggregate Dense 3/4-Inch	TON	60. 000	60. 000
0140	305. 0120	Base Aggregate Dense 1 1/4-Inch	TON	820.000	820. 000
0150 0160	311. 0110 455. 0605	Breaker Run Tack Coat	TON GAL	180. 000 40. 000	180. 000 40. 000
0170	465. 0105	Asphaltic Surface	TON	180.000	180. 000
0180	502. 0100	Concrete Masonry Bridges	CY	406. 000	406. 000
0190	502. 3200	Protective Surface Treatment	SY	526.000	526. 000
0200 0210	505. 0405 505. 0605	Bar Steel Reinforcement HS Bridges Bar Steel Reinforcement HS Coated	LB LB	9, 920. 000 50, 200. 000	9, 920. 000 50, 200. 000
0210	513. 4060	Bridges Railing Tubular Type M (structure) 02.	LS	1. 000	1. 000
		B-25-0172			
0240	516. 0500	Rubberized Membrane Waterproofing	SY	14. 000	14. 000
0260	520. 0148	Culvert Pipe Class III 48-Inch	LF EACH	54.000	54.000
0280 0290	520. 1048 550. 1100	Apron Endwalls for Culvert Pipe 48-Inch Piling Steel HP 10-Inch X 42 Lb	n EACH LF	2. 000 670. 000	2. 000 670. 000
0300	606. 0200	Riprap Medium	CY	70.000	70. 000
0310	606. 0300	Ri prap Heavy	CY	340. 000	340. 000
0320	612. 0406	Pipe Underdrain Wrapped 6-Inch	LF	180.000	180. 000
0330	619. 1000	Mobilization	EACH	0. 550	0. 550
0340 0350	624. 0100 625. 0500	Water Salvaged Topsoil **P**	MGAL SY	20. 000 1, 170. 000	20. 000 1, 170. 000
0360	627. 0200	Mul chi ng **P**	SY	1, 430. 000	1, 430. 000
0370	628. 1504	Silt Fence	LF	800.000	800.000
0380 0390	628. 1520 628. 1905	Silt Fence Maintenance Mobilizations Erosion Control	LF EACH	1, 600. 000 2. 000	1, 600. 000 2. 000
0400	628. 1910	Mobilizations Emergency Erosion Control	EACH	2. 000	2. 000
0410	628. 2004	Erosion Mat Class I Type B	SY	50.000	50. 000
0420 0430	628. 2006 628. 6005	Erosion Mat Urban Class I Type A Turbidity Barriers	SY SY	50. 000 320. 000	50. 000 320. 000
0430	628. 7504	Temporary Ditch Checks	LF	50. 000	50. 000
0450	628. 7555	Culvert Pipe Checks	EACH	12.000	12. 000
0460	628. 7560	Tracki ng Pads	EACH	2. 000	2. 000
0470	629. 0210	Fertilizer Type B	CWT	1. 200	1. 200
0480 0490	630. 0120 630. 0140	Seedi ng Mi xture No. 20 **P** Seedi ng Mi xture No. 40 **P**	LB LB	50. 000 10. 000	50. 000 10. 000
0500	630. 0200	Seeding Temporary **P**	LB	30.000	30. 000
0510	631. 1100	Sod Erosi on Control	SY	50. 000	50. 000
0520	633. 5100	Markers Row	EACH	13.000	13. 000
0530 0540	634. 0612 634. 0616	Posts Wood 4x6-Inch X 12-FT Posts Wood 4x6-Inch X 16-FT	EACH EACH	4. 000 1. 000	4. 000 1. 000
0540	637. 2210	Signs Type II Reflective H	SF	18. 250	18. 250
-		3 31	-	5. = 3	-

DATE 24 LINE	AUG15	EST	TIMAT	TE OF QUAN	T I T I E S 5106-00-75	
NUMBER 0560	ITEM 642.5001	ITEM DESCRIPTION Field Office Type B	UNI T EACH	TOTAL 0. 500	QUANTI TY 0. 500	
0580	643. 0100	Traffic Control (project) 02. 5106-00-75	EACH	1. 000	1. 000	
0590 0600	645. 0120 646. 0103	Geotextile Fabric Type HR Pavement Marking Paint 4-Inch	SY LF	890. 000 800. 000	890. 000 800. 000	
0610 0620	650. 4500 650. 5000	Construction Staking Subgrade Construction Staking Base	LF LF	277. 000 277. 000	277. 000 277. 000	
0630	650. 6000	Construction Staking Pipe Culverts	EACH	1. 000	1. 000	
0650	650. 6500	Construction Staking Structure Layout (structure) 02. B-25-0172	LS	1. 000	1. 000	
0670	650. 9910	Construction Staking Supplemental Control (project) 02. 5106-00-75	LS	1. 000	1. 000	
0680 0690	650. 9920 690. 0150	Construction Staking Slope Stakes	LF LF	277. 000 44. 000	277. 000 44. 000	
		Sawi ng Asphal t				
0700 0710	715. 0502 ASP. 1T0A	Incentive Strength Concrete Structures On-the-Job Training Apprentice at \$5. OO/HR	DOL HRS	2, 436. 000 225. 000	2, 436. 000 225. 000	
0720	ASP. 1TOG	On-the-Job Training Graduate at \$5.00/HR	HRS	155. 000	155. 000	

CLEARING AND GRUBBING

REMOVING SMALL PIPE CULVERTS

						(203.0100)	
CATEGORY	STATION	LOCATION	TYPE	DIAMETER	LENGTH	EACH	
0010	11+57	LT	CMP	36"	27'	1	
	PRO IFCT TOTAL						

BASE AGGREGATE DENSE

	F	PROJECT TOTAL	60	820	
	FE	11+57	LT	-	60
	10+59.38	8+00 9+35.62 10+59.38 12+00		30	380
0010	8+00			30	380
CATEGORY	STATION	TO STATION	LOCATION	TON	TON
				(305.0110) 3/4-INCH	(305.0120) 1 1/4-INCH

BREAKER RUN

				(311.0110)					
CATEGORY	STATION	TO STATION	LOCATION	TON					
0010		180							
	PROJECT TOTAL								

ASPHALTIC SURFACE

_		PROJE	40	180	
		10+59.38	12+00	22	100
_	0010	8+00	9+35.62	18	80
	CATEGORY	STATION	TO STATION	GAL	TON
				(455.0605) TACK COAT	(465.0105)

NOTE: QUANTITIES INCLUDE F.E. AT STATION 11+57, LT

CULVERT PIPE

	PROJEC	T TOTALS	54			2	1	8
010	11+57	LT	54	0.109	0.105	2	1	8
CATEGORY	STATION	LOCATION	LF	IN	IN	EACH	EACH	EACH
			48-INCH	STEEL	ALUM	PIPE 48-INCH	PIPE CULVERTS	*
			CLASS III	THICK	NESS	FOR CULVERT	STAKING	TIES
			CULVERT PIPE			APRON ENDWALLS	CONSTRUCTION	JOINT
			(520.0148)			(520.1048)	(650.6000)	

* JOINT TIES INCIDENTAL TO CULVERT PIPE CLASS III

RIPRAP OVER GEOTEXTILE FABRIC

		ROJECT TOTAL	70	210	
	11+85	12+00	ΙT	10	40
010	10+60	11+38	LT	60	170
CATEGORY	STATION	TO STATION	LOCATION	CY	SY
				MEDIUM	TYPE HR
				RIPRAP	GEOTEXTILE FABRIC
				(606.0200)	(645.0120)
					*

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

EARTHWORK PROJECT I.D. 5106-00-75

Division	From/To Station Location		Common (item #		Salvaged/ Unusable Pavement Material (4) Available Material (5)		Unexpanded Expanded Fill (13)		Mass Ordinate +/- (14)	Waste	Borrow	Comment:
			Cut (2)	EBS Excavation (3)				Factor			(item #208.0100)	
1	8+00.00-9+35.62	South CTH HK	198	0	0	198	196	245	-46	-46	46	
2	10+59.38 - 12+00	North CTH HK	230	0	0	230	295	368	-138	-138	138	
	STRUC	TURE B-25-0172	0	0	0	0	0	0	0	0	0	
	UNDIS'	TRIBUTED EBS	0	86	0	0	0	0	0	0	0	
Grand Total	l Total		428	86	0	429	490	613	-184	-184	184	

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut.
- 3) EBS Excavation to be backfilled with Breaker Run material.
- 4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut Salvaged/Unusuable Pavement Material
- 13) Expanded Fill. Factor = 1.25
- 14) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

PROJECT NO: 5106-00-75 HWY: CTH HK COUNTY: IOWA MISCELLANEOUS QUANTITIES SHEET E

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F	FINISHING ITEMS	MARKERS ROW	
	(627.0200) (629.0210) (630.0120) (630.0140) (630.0200) MULCHING FERTILIZER TYPE B * SEEDING MIXTURE * S	CATEGORY POINT NUMBER STATION LOCATION EACH 0010 1 8+35.00 32.23' LT 1 2 8+99.00 34.83' LT 1 3 10+00.00 40.00' LT 1 4 10+29.88 57.43' LT 1 5 10+60.00 75.00' LT 1 6 11+25.00 80.00' LT 1 7 12+10.00 68.67' LT 1 8 12+10.00 34.35' LT 1 9 12+10.00 31.65' RT 1	
SILT FENCE	MOBILIZATIONS EROSION CONTROL	10 11+50.00 45.00' RT 1 11 11+00.00 45.41' RT 1 12 8+55.00 40.00' RT 1	
CATEGORY STATION STATION LOCATION LF 0010 8+00 9+50 LT 150 8+00 9+85 RT 185 9+50 9+85 LT & RT 85 9+90 10+60 LT 80	3.1520) TENANCE LF CATEGORY DESCRIPTION BACH BACH BACH BACH BACH BACH BACH BACH	13 8+35.00 33.77' RT 1 PROJECT TOTAL 13	
UNDISTRIBUTED 80	310 160 ,600	PERMANENT SIGNING (637.2210) (634.0612) (634.0616) SIGNS TYPE II POSTS WOOD POSTS WOOD	
•	TURBIDITY BARRIERS (628.2006) (628.6005) BAN CLASS CATEGORY STATION LOCATION SY TYPE A	CATEGORY CODE STATION LOCATION SF EACH 4x6-INCH x 16-FT 0010 W5-52L 9+28 LT 3.0 1 - W5-52R 9+42 RT 3.0 1 - W5-52R 10+52 LT 3.0 1 - W5-52L 10+66 RT 3.0 1 - W1-2L 10+90 LT 6.25 - 1 PROJECT TOTALS 18.25 4 1	
PROJECT TOTALS 50 TEMPORARY DITCH CHECKS	CULVERT PIPE CHECKS	WATER SAWING ASPHALT	_
CATEGORY STATION LOCATION LF 0010 UNDISTRIBUTED 50 PROJECT TOTAL 50	CATEGORY STATION LOCATION EACH 0010 11+92 LT 12 PROJECT TOTAL 12	CATEGORY DESCRIPTION MGAL CATEGORY STATION LOCATION LF 0010 COMPACTION 9 0010 8+00 LT & RT 22 DUST CONTROL 4 12+00 LT & RT 22 UNDISTRIBUTED 7 PROJECT TOTAL 44 PROJECT TOTAL 20 PROJECT TOTAL 44	_ _
TRACKING PADS (628.7560) CATEGORY STATION EACH 0010 8+00 1	SOD EROSION CONTROL (631.1100) CATEGORY STATION LOCATION SY 0010 UNDISTRIBUTED 50	CONSTRUCTION STAKING	
12+00 1 PROJECT TOTAL 2	PROJECT TOTAL 50	(650.4500) (650.5000) (650.6500) (650.9910) SUBGRADE BASE STRUCTURE SUPPLEMENT LAYOUT CONTROL CATEGORY STATION TO STATION LOCATION LF LF LS LS	STAKES LF
PA	VEMENT MARKING PAINT 4-INCH	0010 8+00 9+36 LT & RT 136 136 10+59 12+00 LT & RT 141 141 10+59 PROJECT 5106-00-75 1	136 141 -
CATEGORY STATION STATION 0010 8+00 12+00 PROJECT TO	CENTERLINE 800 SOLID DOUBLE YELLOW CENTERLINE	CATEGORY 0010 SUBTOTALS 277 277 0 1 0020 STRUCTURE B-25-0172 - - - 1 - CATEGORY 0020 SUBTOTALS 0 0 1 0 PROJECT TOTALS 277 277 1 1	277 - 0 277
PROJECT NO: 5106-00-75 HWY: CTH	H HK COUNTY: IOWA	MISCELLANEOUS QUANTITIES SHEET	Е

PLOT NAME:

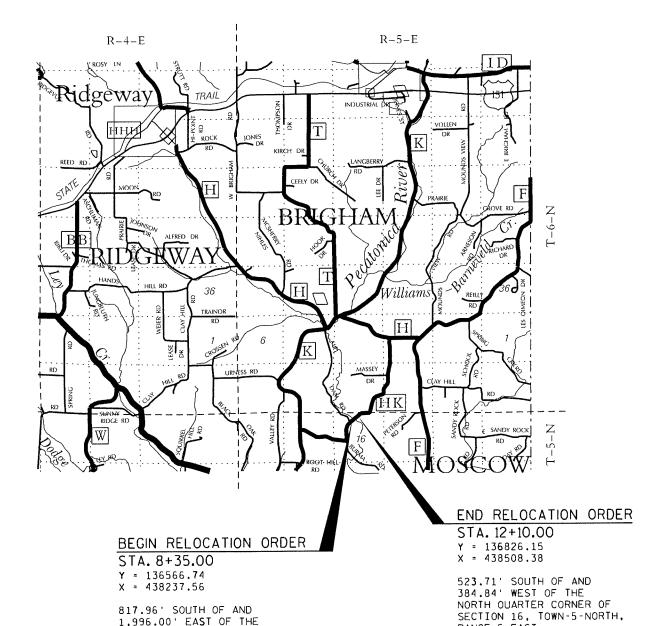
CONVENTIONA	AL SYMBOL	S AND ABBREVIATION	S
STATE, COUNTY, or TOWN LINE		ACCESS POINT/ DRIVEWAY CONNECTION	AP
SECTION LINE		ACCESS RIGHTS	AR
QUARTER LINE		ACRES	AC.
SIXTEENTH LINE		AND OTHERS	ET.AL.
PROPOSED REFERENCE LINE		CENTERLINE	C/L
PROPOSED R/W LINE		CERTIFIED SURVEY MAP	CSM
EXISTING H.E. LINE		DOCUMENT	DOC.
PROPERTY LINE		HICHWAY EASEMENT	H.E.
EASEMENT LINE		LAND CONTRACT	LC
CORPORATE LIMITS	11111111	MONUMENT	MON.
EXISTING CENTERLINE		PAGE	P.
LOT & TIE LINES		PERMANENT LIMITED EASEMENT	PLE
UTILITIES		PROPERTY LINE	PL
(IELEPHONE,GAS,ELECTRIC,CABLE IV.E)	(TYPE)	RECORDED AS	(100')
NO ACCESS		REFERENCE LINE	R/L
"(BŶ PŘEVIOUS ACOUISITI	ON/CONTROL)	REMAINING	REM.
NO ACCESS (BY ACQUISTION)		RIGHT-OF-WAY	R/₩
NO ACCESS	•••••	SECTION	SEC.
"(BŶ ŠŤĂŤUTORY AUTHORIT	Y)	SOUARE FEET	SO.FT.
FEE (HATCH VARIES)	12/28	STATION	STA.
TEMPORARY LIMITED	لنسانسا	TEMPORARY LIMITED EASEMENT	
EASEMENT		VOLUME CURVE DATA	٧.
PERMANENT LIMITED EASEMENT	K/		
PARCEL NUMBER	6 03	LONG CHORD	LCH
UTILITY PARCEL NUMBER	\simeq	LONG CHORD BEARING	LCB
	(92)	RADIUS	R
SIGN NUMBER (OFF PREMISE)	(21-1)	DEGREE OF CURVE	D
BUILDING		CENTRAL ANGLE OR DELTA	DELTA
	I.E	LENGTH OF CURVE	L
FOUND IRON PIPE/PIN (1	UNLESS NOTED)	TANGENT NON	TAN
R/W MONUMENT	• •(SET)		E COMPENSABLE
R/W STANDARD	△ ▲(SET)	POWER POLE 6	E COMPENSABLE
SIGN	ISIGN	TELEPHONE POLE Ø	į.
SECTION CORNER SYMBOL	(kini)	TELEPHONE PEDESTAL X	×

NOTES

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, IOWA COUNTY ZONE, NAD 83 (2011) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS SHALL BE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER SURVEYS OF PUBLIC RECORD.



RANGE-5-EAST.

LAYOUT TOTAL NET LENGTH OF CENTERLINE = 0.071 MI.

NORTHWEST CORNER OF SECTION 16, TOWN-5-NORTH,

RANGE-5-EAST.

R/W PROJECT NUMBER SHEET TOTAL 5106-00-05 FEDERAL PROJECT NUMBER 4.01 PLAT OF RIGHT-OF-WAY REQUIRED FOR

CTH K - CTH H (EAST BRANCH PECATONICA RIVER BRIDGE B-25-0172)

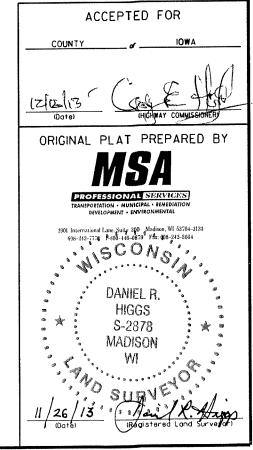
CTH HK

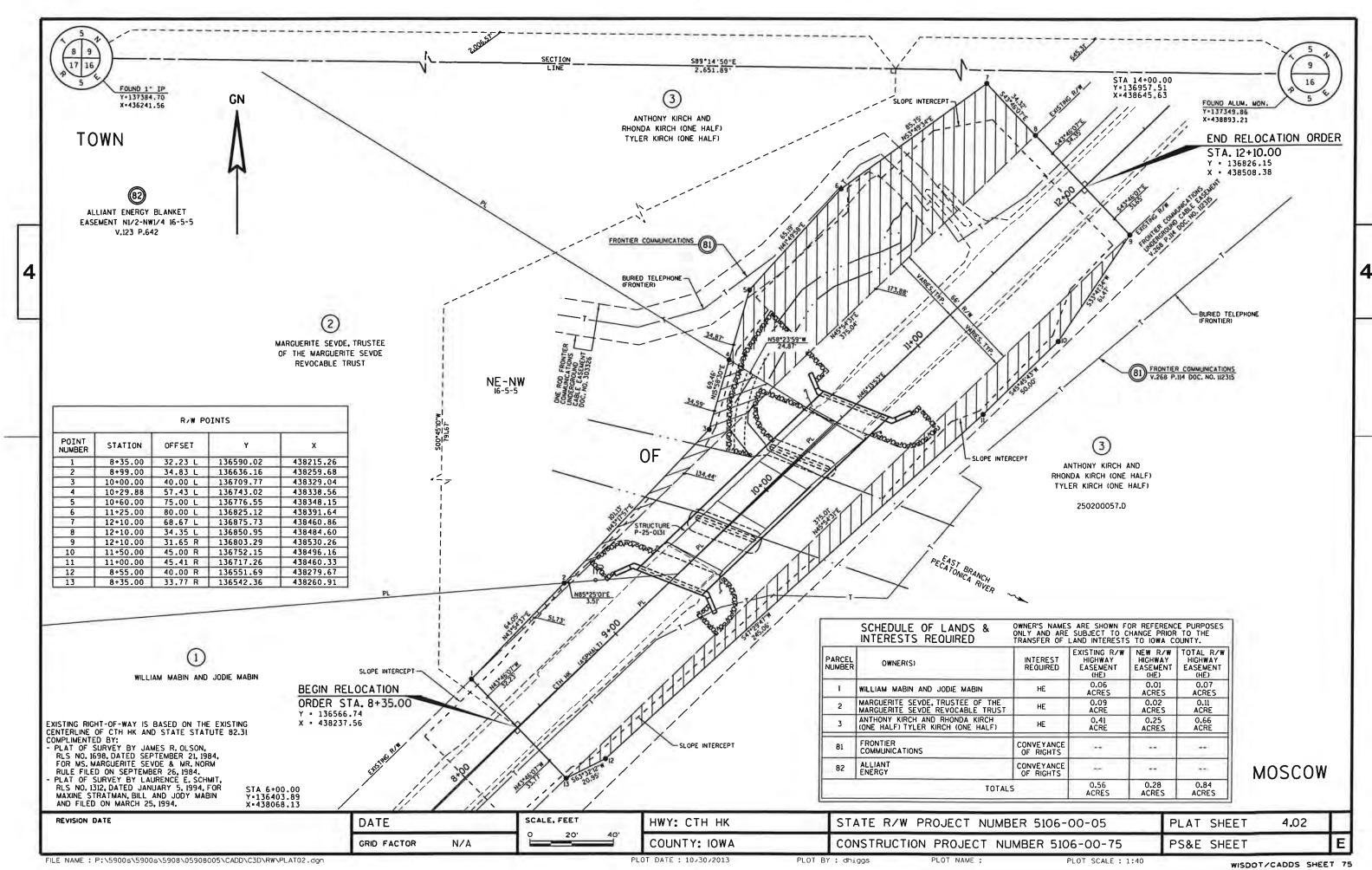
IOWA COUNTY

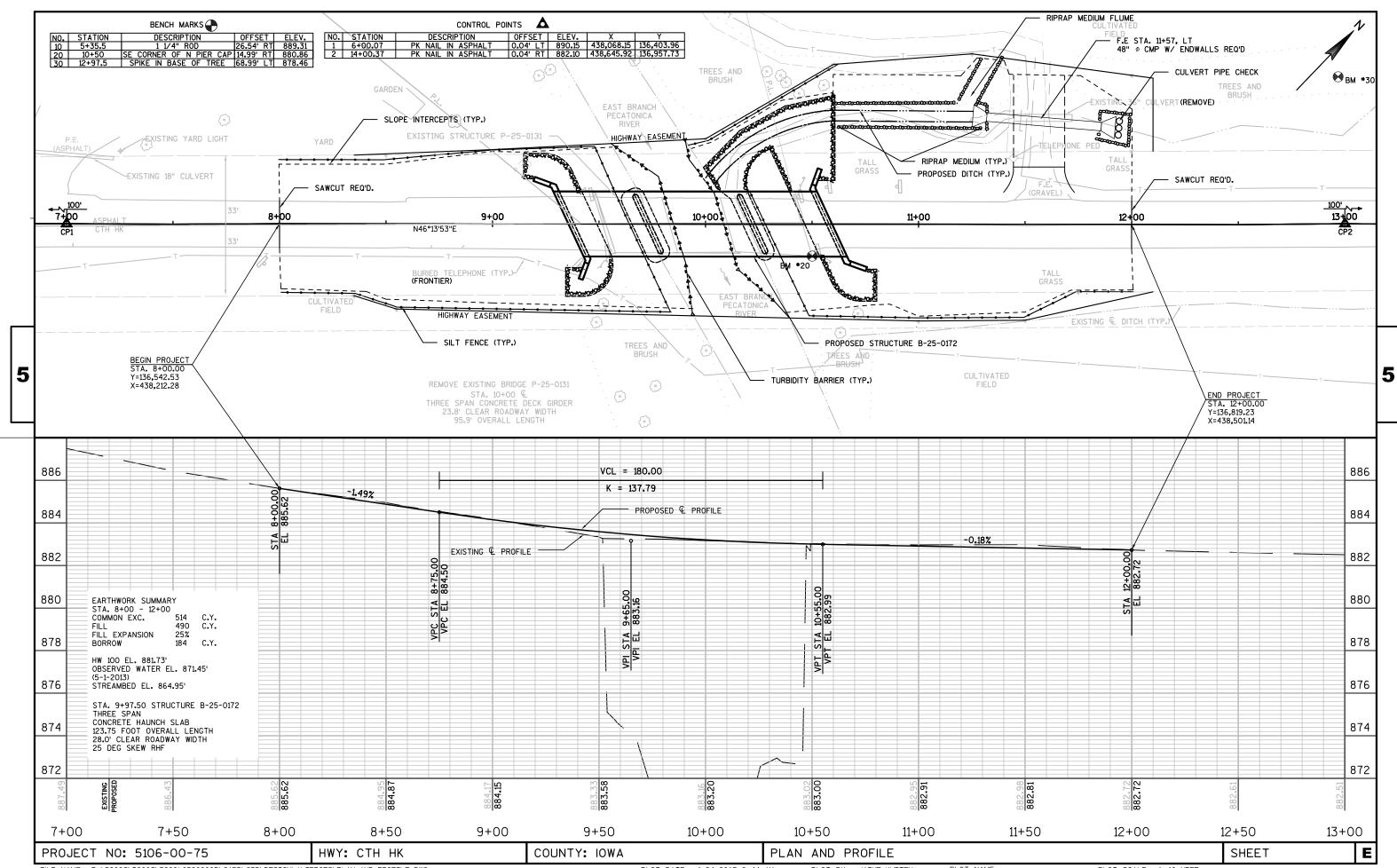
CONSTRUCTION PROJECT NUMBER 5106-00-75











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
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
12A03-10	NAME PLATE (STRUCTURES)
15A01-11	MARKER POST FOR RIGHT-OF-WAY
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-07	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-16A	PAVEMENT MARKING (MAINLINE)
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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

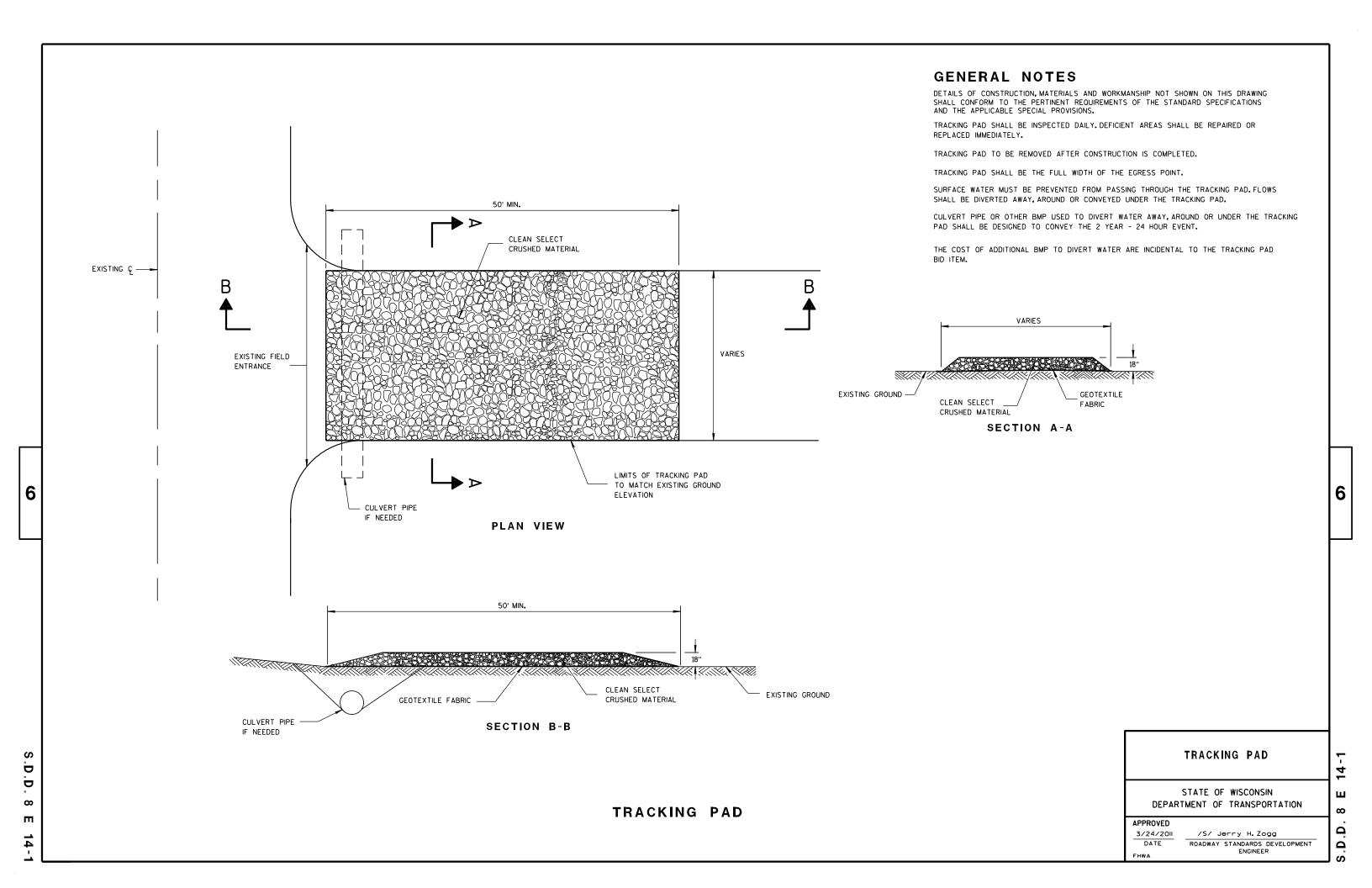
TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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	METAL APRON ENDWALLS														
PIPE	MIN. 1	THICK.			DIMENS	SIONS (I	nches)			APPROX.					
DIA.	(Incl		A	В	Н	L	Γį	L ₂	W	SLOPE	BODY				
(IN.)	STEEL	ALUM.	(±1")	(MAX.)	(±1")	(±1 ½")	①	0	(±2")	320.2					
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.				
15	.064	.060	7	8	6	26	14	213/4	30	2½to 1	1Pc.				
18	.064	.060	8	10	6	31	15	281/4	36	21/2+o 1	1Pc.				
21	.064	.060	9	12	6	36	18	295/8	42	21/2+o 1	1Pc.				
24	.064	.075	10	13	6	41	18	371/4	48	21/2+o 1	1Pc.				
30	.079	.075	12	16	8	51	18	521/4	60	21/2+0 1	1Pc.				
36	.079	. 105	14	19	9	60	24	59¾	72	21/2+o 1	2 Pc.				
42	.109	.105	16	22	11	69	24	75%	84	21/2 to 1	2 Pc.				
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ +o 1	3 Pc.				
54	.109	.105	18	30	12	84	30	851/2	102	2 ¹ / ₄ †o 1	3 Pc.				
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.				
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.				
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.				
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.				
84	.109×	.105×	18	45	12	87	_	_	138	11/2 to 1	3 Pc.				
90	.109×	.105×	18	37	12	87	_	_	144	11/2+0 1	3 Pc.				
96	.109×	.105×	18	35	12	87	_	_	150	1/2+0 1	3 Pc.				

	RE	INFORC	ED C	ONCRET	E APRO	N E	NDWAL	.LS						
PIPE			DIM	DIMENSIONS (Inches)										
DIA.	T	A	В	С	D	Ε	G	APPROX. SLOPE						
12	2	4	24	48 1/8	721/8	24	2	3 to 1						
15	21/4	6	27	46	73	30	21/4	3 to 1						
18	21/2	9	27	46	73	36	21/2	3 to 1						
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1						
24	3	91/2	431/2	30	731/2	48	3	3 to 1						
27	31/4	101/2	491/2	24	731/2	54	31/4	3 to 1						
30	$3\frac{1}{2}$	12	54	193/4	731/2	60	31/2	3 to 1						
36	4	15	63	34¾	97¾	72	4	3 to 1						
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1						
48	5	24	72	26	98	84	5	3 to 1						
54	51/2		65	**************************************	8 ¹ / ₄ - 100	90	51/2	2% to 1						
60	6	* * * 30-35	60	39	99	96	5	2 to 1						
66	61/2	* * * 24-30	* * * 72-78	* * * 21-27	99	102	51/2	2 to 1						
72	7	* ** 24-36	78	21	99	108	6	2 to 1						
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1						
84	8	36	901/2	21	1111/2	120	61/2	1½+o 1						
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1						

THREADED %6" DIA. ROD CONNECTOR AROUND CULVERT & THROUGH TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT TYPE 1 FOR 12" THRU 24" CORR. PIPE







NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

CORRUGATED PIPE. FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

DIMPLED BAND MAY BE USED WITH HELICALLY

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP

* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



**MAXIMUM





CONCRETE ENDWALLS

CONNECTION DETAILS



SECTION A-A

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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

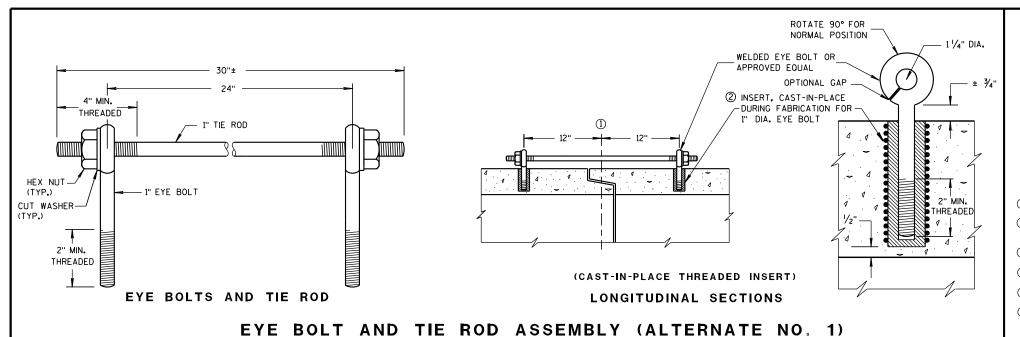
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER



GENERAL NOTES

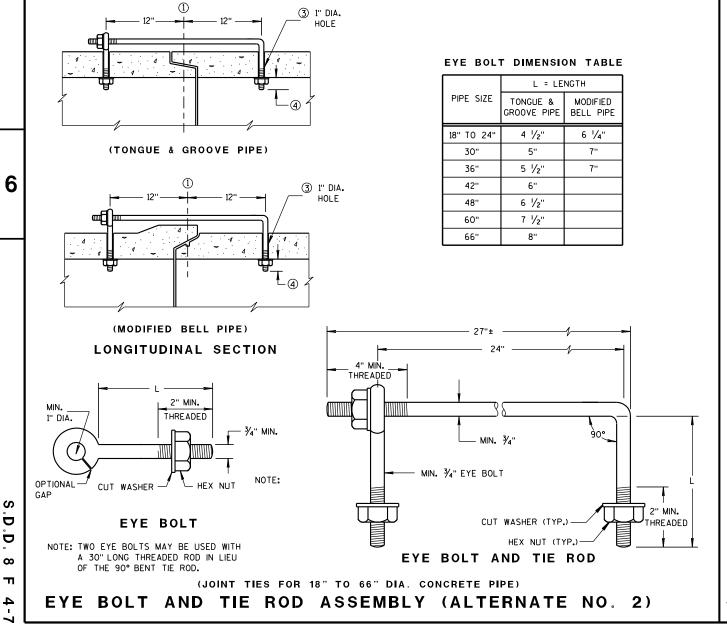
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES, ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

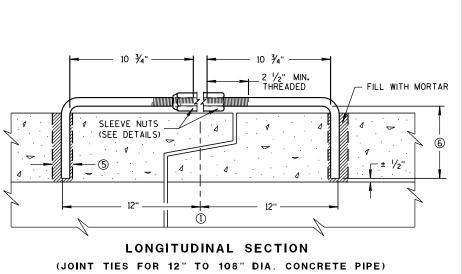
DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

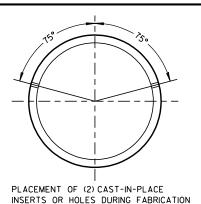
- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ${\mathfrak L}$ OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- (5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN $rac{1}{2}$ INCH OF THE INNER SURFACE OF THE PIPE.



ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

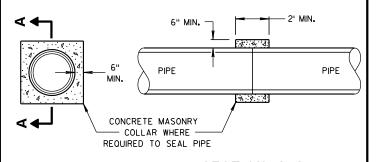


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

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



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

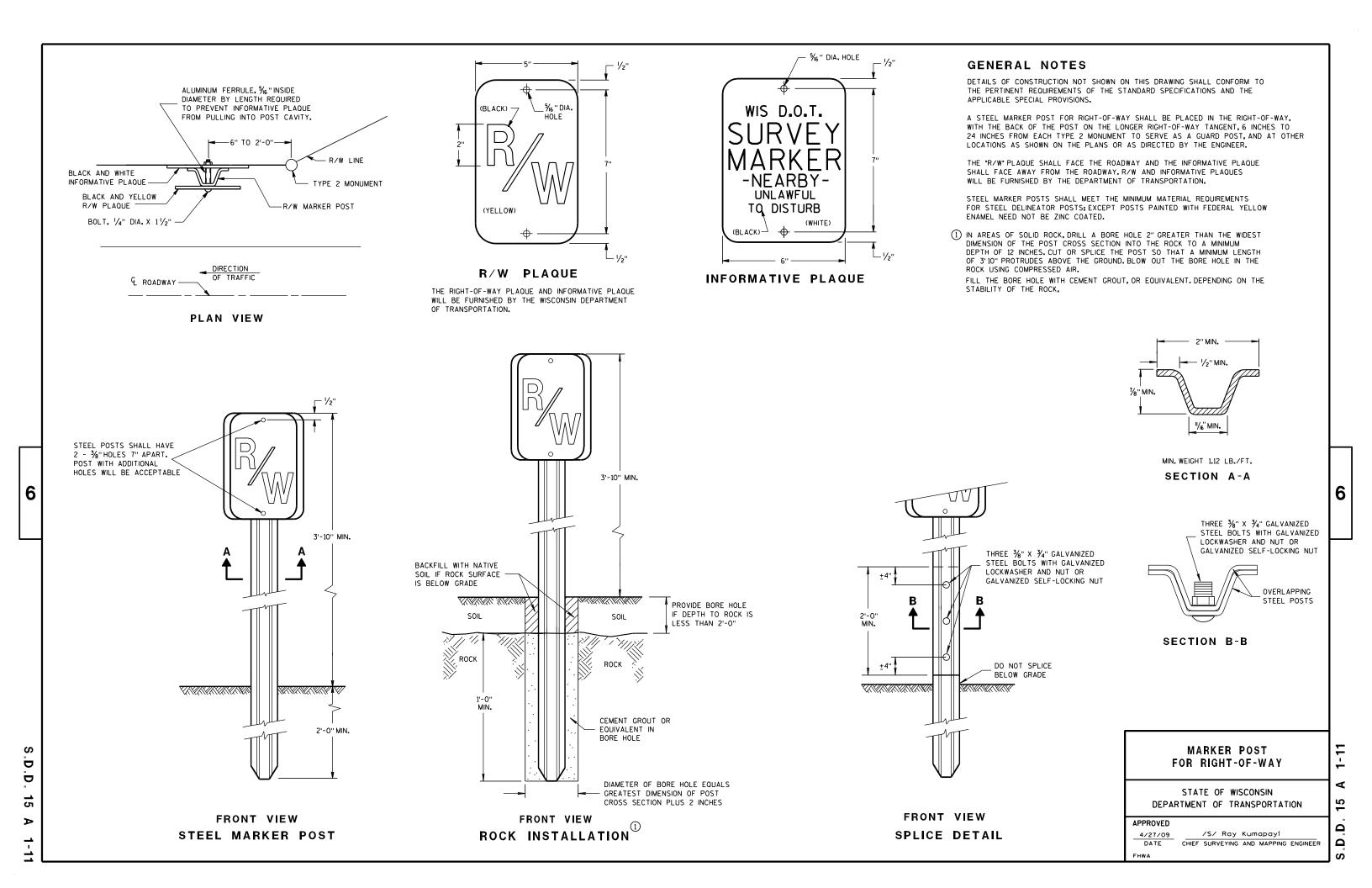
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3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10



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

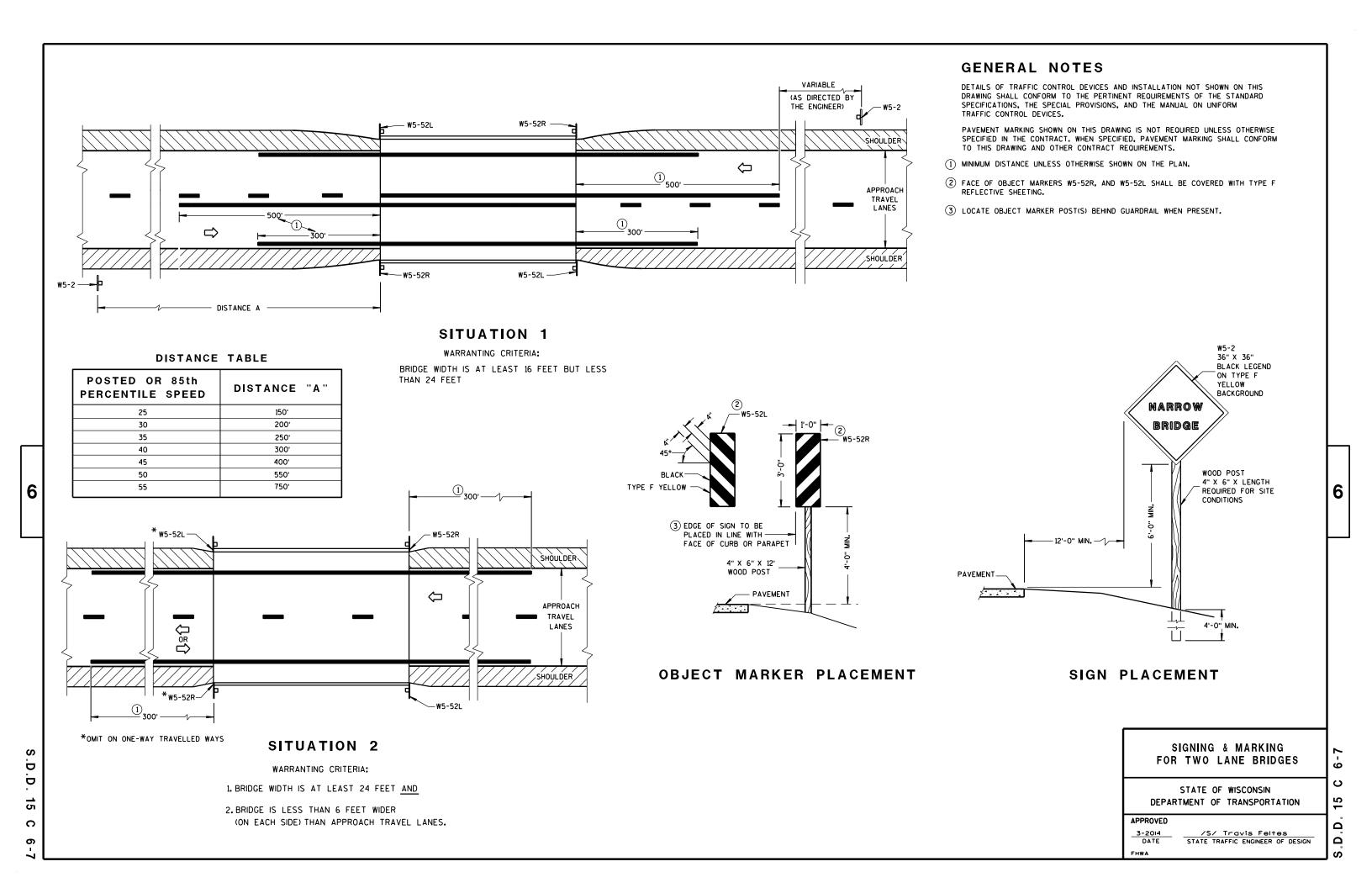
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

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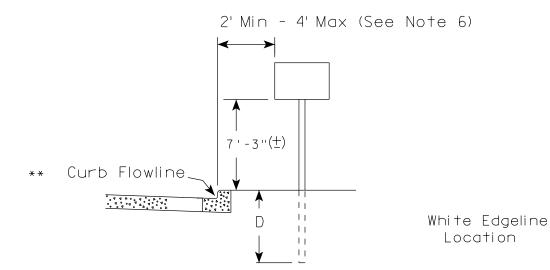
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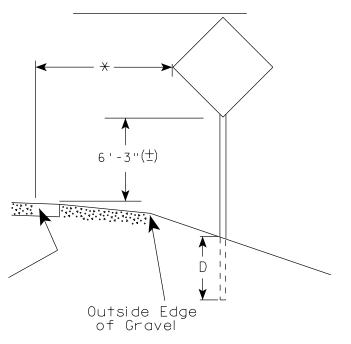




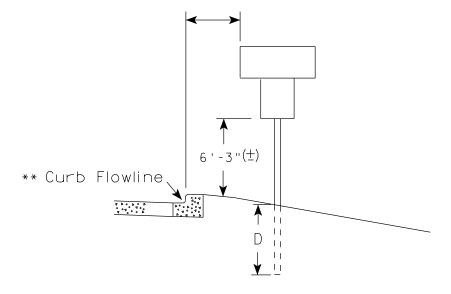
urban area



RURAL AREA (See Note 2)



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



White Edgeline
Location

Outside Edge
of Gravel

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated.

That height is typically measured where

there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

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.

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" (\pm) .
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (\pm) tolerance for mounting height is 3 inches.
- 8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (\pm) or as directed by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), 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

Matther & Rauh
For State Traffic Engineer

DATE 9/30/13

SHEET NO:

COUNTY:

JN I Y:

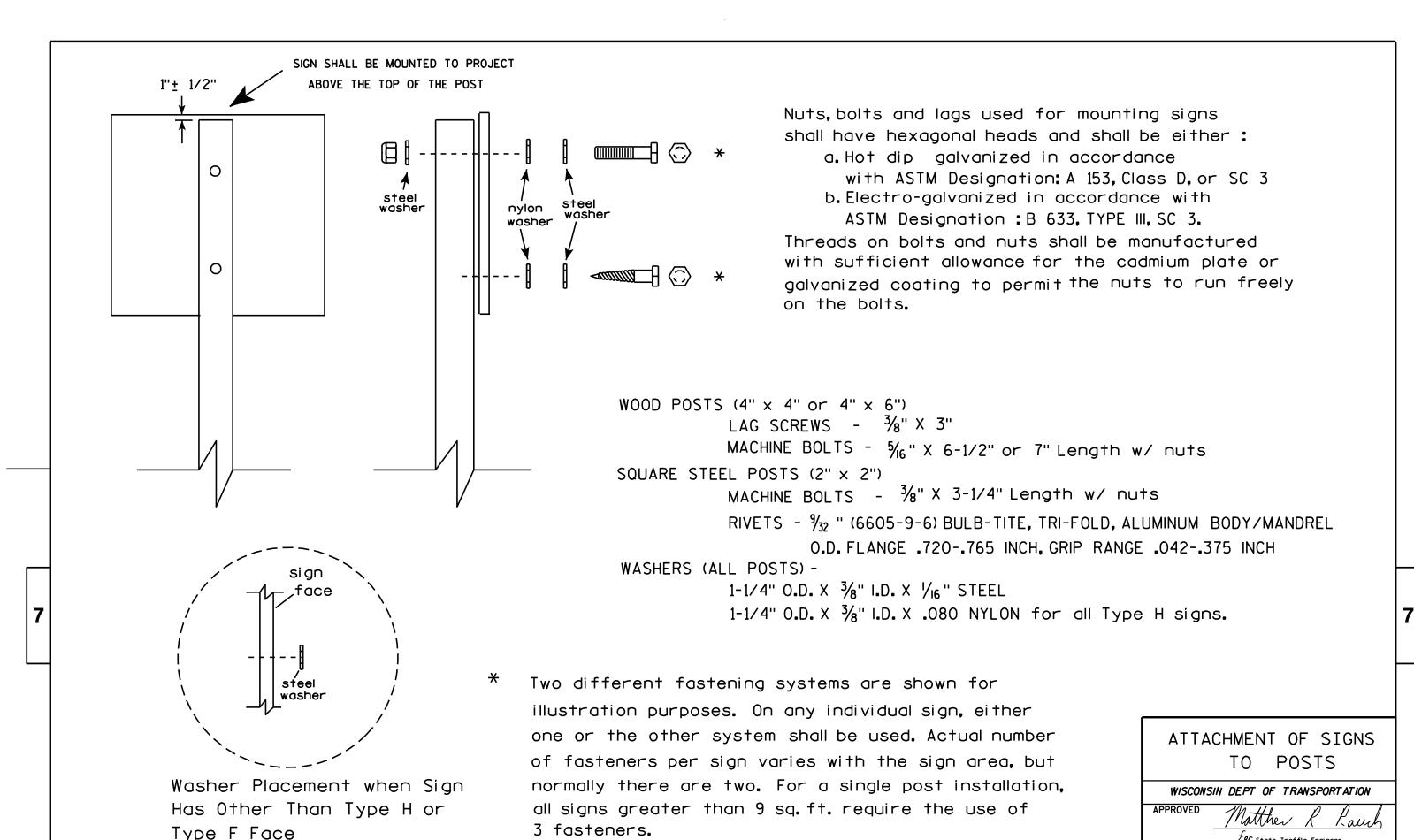
PLOT DATE: 30-SEP-2013 13:25

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42

PROJECT NO:



FILE NAME : C:\Users\PROJECTS\tr_stdplate\A48.DGN

CTH HK

PROJECT NO: 5106-00-75

PLOT DATE: 23-MAR-2010 10:15

IOWA COUNTY

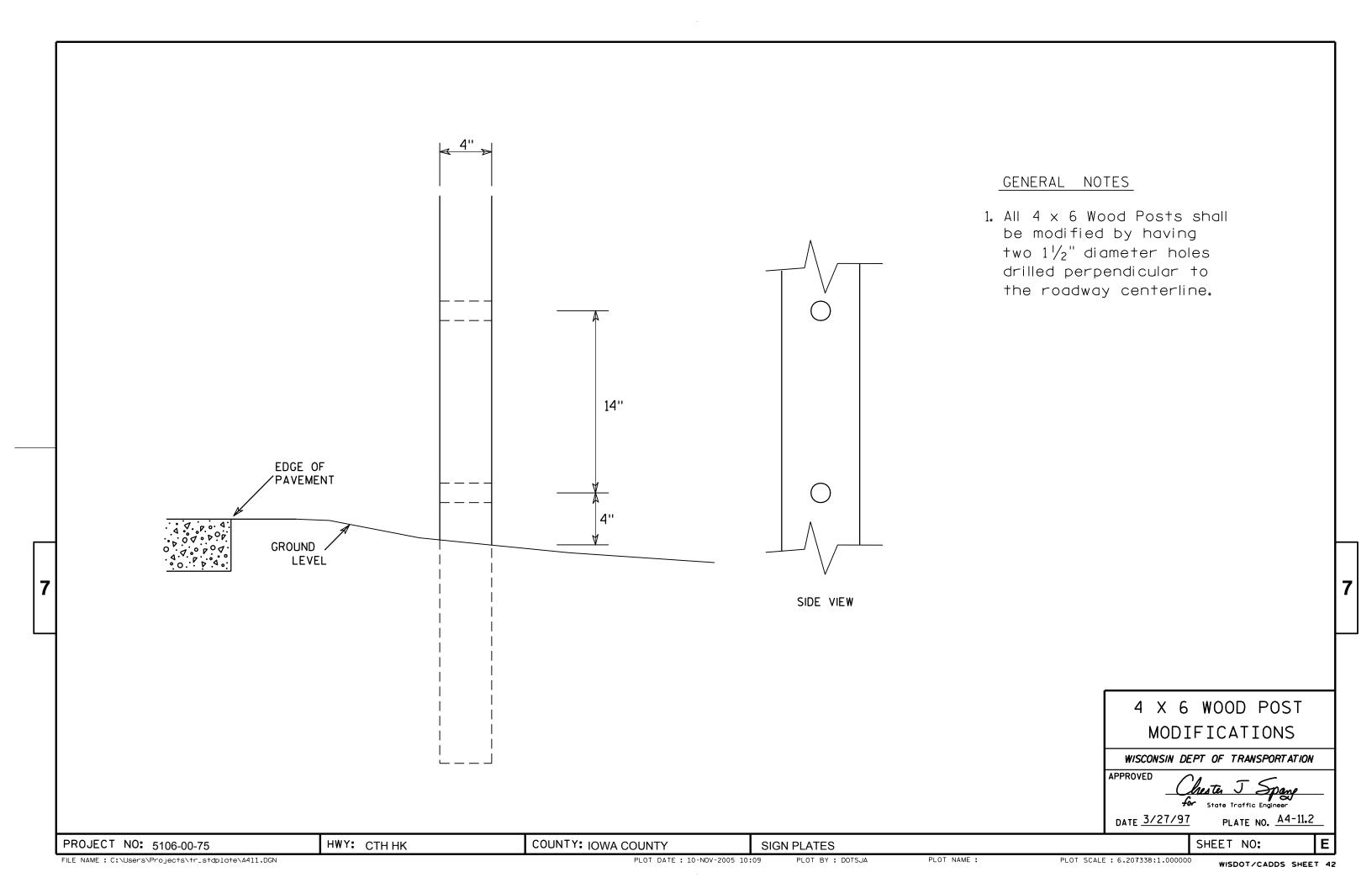
SIGN PLATES

PLATE NO. 44-8.7

For State Traffic Engineer

SHEET NO:

DATE 3/23/10

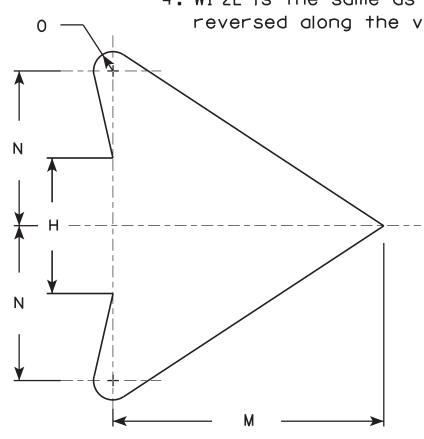


NOTES

- 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. 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.
- 4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



ARROW	DETAIL
AININOW	DEIAL

								W	1-2R													AIN	11011	DLIA			
SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	M	N	0	Р	0	R	S	Т	U	V	W	×	Y	Z	Areg
1 1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
25	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 %	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 1/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 %	14 1/2	14	8	1												16.0
								•			•				•				•	•		•			•		•

COUNTY: IOWA

STANDARD SIGN W1-2

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

Matthew R Rauch For State Traffic Engineer

DATE <u>5/15/12</u>

PLATE NO. <u>W1-2.10</u>

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W12.DGN

PROJECT NO: 5106-00-75

← H →

HWY: CTH HK

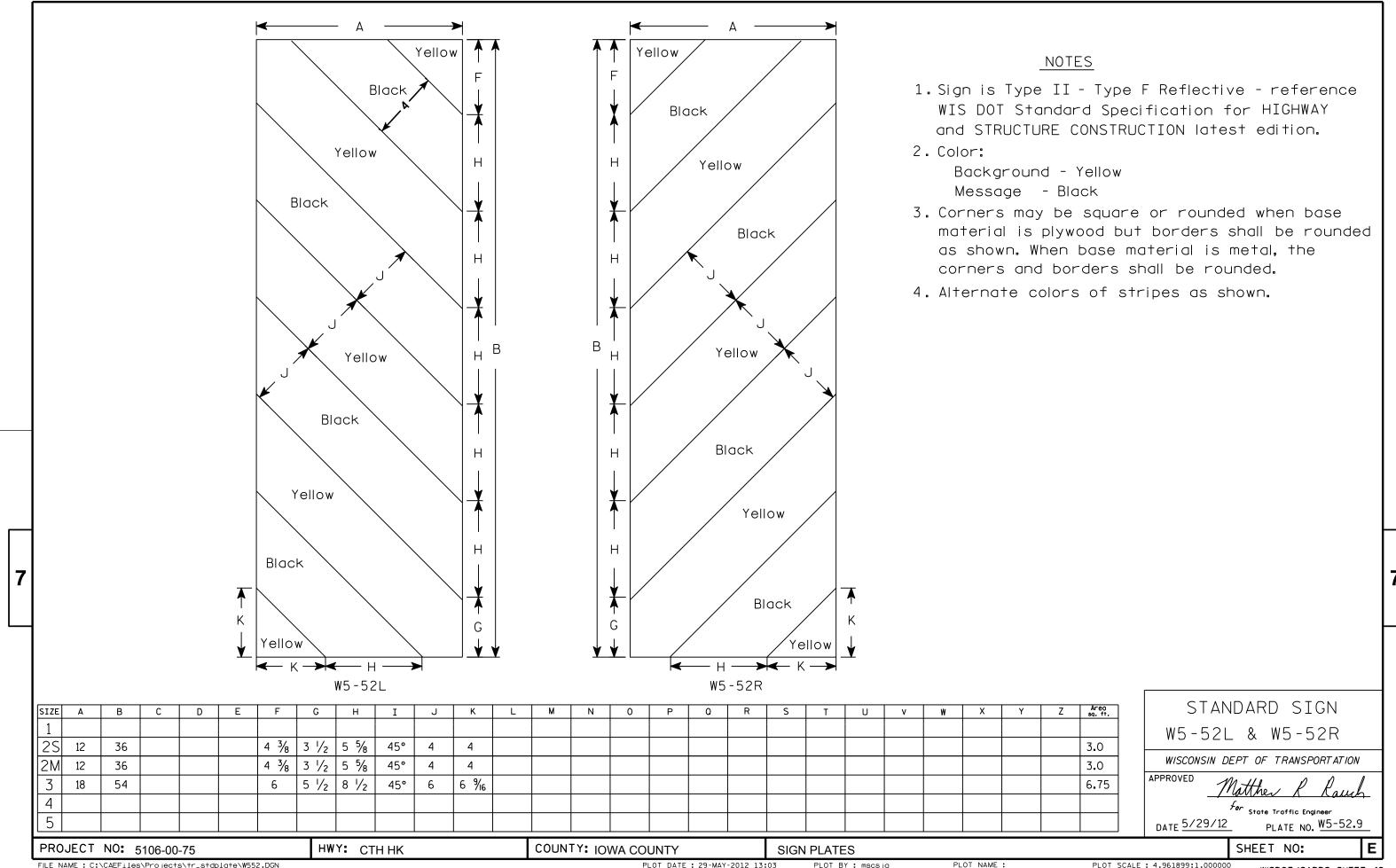
PLOT DATE: 15-MAY-2012 14:03

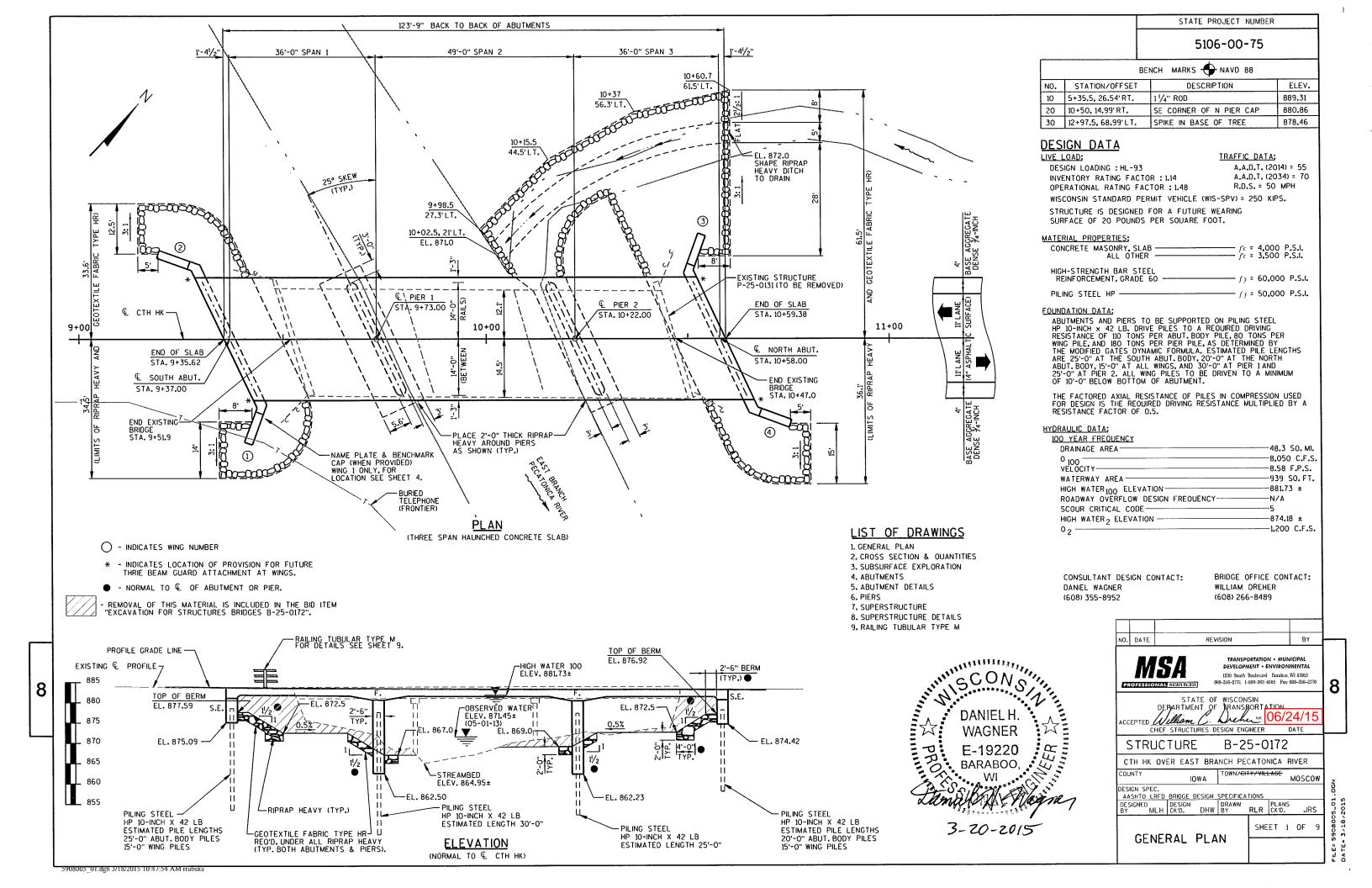
PLOT BY: mscsja

SIGN PLATES

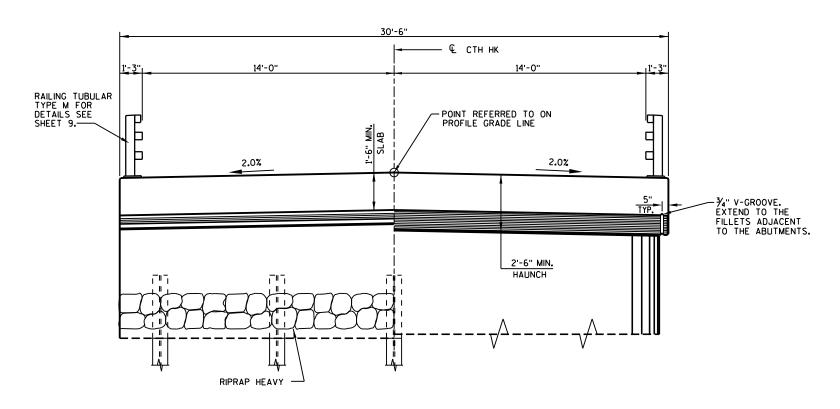
PLOT SCALE: 6.202372:1.000000

WISDOT/CADDS SHEET 42





5106-00-75



AT ABUTMENTS CROSS SECTION THRU BRIDGE (LOOKING NORTH)

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	SOUTH ABUT.	PIER 1	PIER 2	NORTH ABUT.	SUPER	TOTAL
203.0600.S.02	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+00	LS	-	-	-	-	-	1
206.1000.02	EXCAVATION FOR STRUCTURE BRIDGES B-25-0172	LS	,	•	-	-	-	1
210.0100	BACKFILL STRUCTURE	CY	130	-	-	130	-	260
502.0100	CONCRETE MASONRY BRIDGES	CY	34	51	50	34	237	406
502.3200	PROTECTIVE SURFACE TREATMENT	SY	18	-	-	18	490	526
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	2555	2405	2405	2555	-	9920
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	1415	60	60	1415	47250	50200
513.4060.02	RAILING TUBULAR TYPE M B-25-0172	LS	-	-	-	-	-	1
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	7	-	-	7	-	14
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	155	210	175	130	-	670
606.0300	RIPRAP HEAVY	CY	90	25	65	160	-	340
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	90	-	-	90	-	180
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	175	75	140	290	-	680
	NON-BID ITEMS							

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 MARK SIGNIFIES THE BAR SIZE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS AND AROUND THE PIERS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE FABRIC TYPE HR TO THE LIMITS SHOWN ON SHEET 1 AND ON THE ABUTMENT AND PIER SHEETS OR AS DIRECTED BY THE ENGINEER.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-25-0172" FOR THE ABUTMENTS AND PIERS.

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

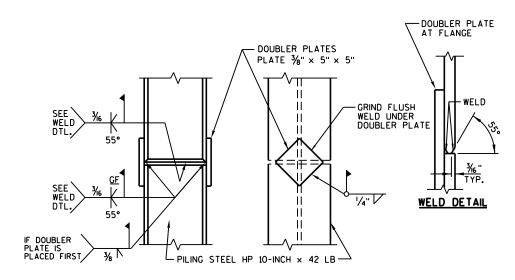
THIS STRUCTURE WILL REPLACE EXISTING BRIDGE, P-25-0131, A 95.9 FT. LONG THREE SPAN CONCRETE DECK GIRDER BRIDGE ON FULL RETAINING TIMBER BACKED ABUTMENTS AND PILE BENT PIERS SUPPORTED ON TIMBER PILING. ABUTMENT AND PIER PILING HAVE CONCRETE PILE CAPS.

AT THE ABUTMENTS ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE. THE BACKFILL STRUCTURE ESTIMATED QUANTITIES ASSUMED A 1½:1 EXCAVATION SLOPE AT THE ABUTMENTS.

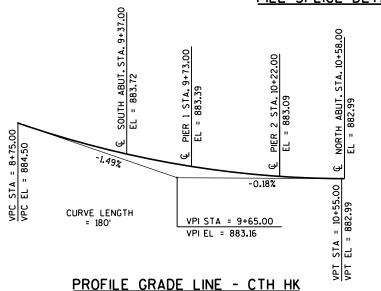
DO NOT PLACE FILL ABOVE 3'-O" FROM THE BOTTOM OF ABUTMENT UNTIL THE SUPERSTRUCTURE IS IN PLACE.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 BENCHMARK LOCATED APPROXIMATELY 2.1 MILES NORTHEAST OF THE EXISTING BRIDGE SITE. THE STATION IS A BRONZE WISDOT GEODETIC SURVEY CONTROL STATION, ELEV. 1064.80.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP AND EDGES OF SLAB, TO THE OUTSIDE 1'-O" OF THE UNDERSIDE OF SLAB, TO THE TOPS OF WINGS, AND TO THE EXPOSED FRONT FACES OF WINGS.







NO. DATE REVISION BY

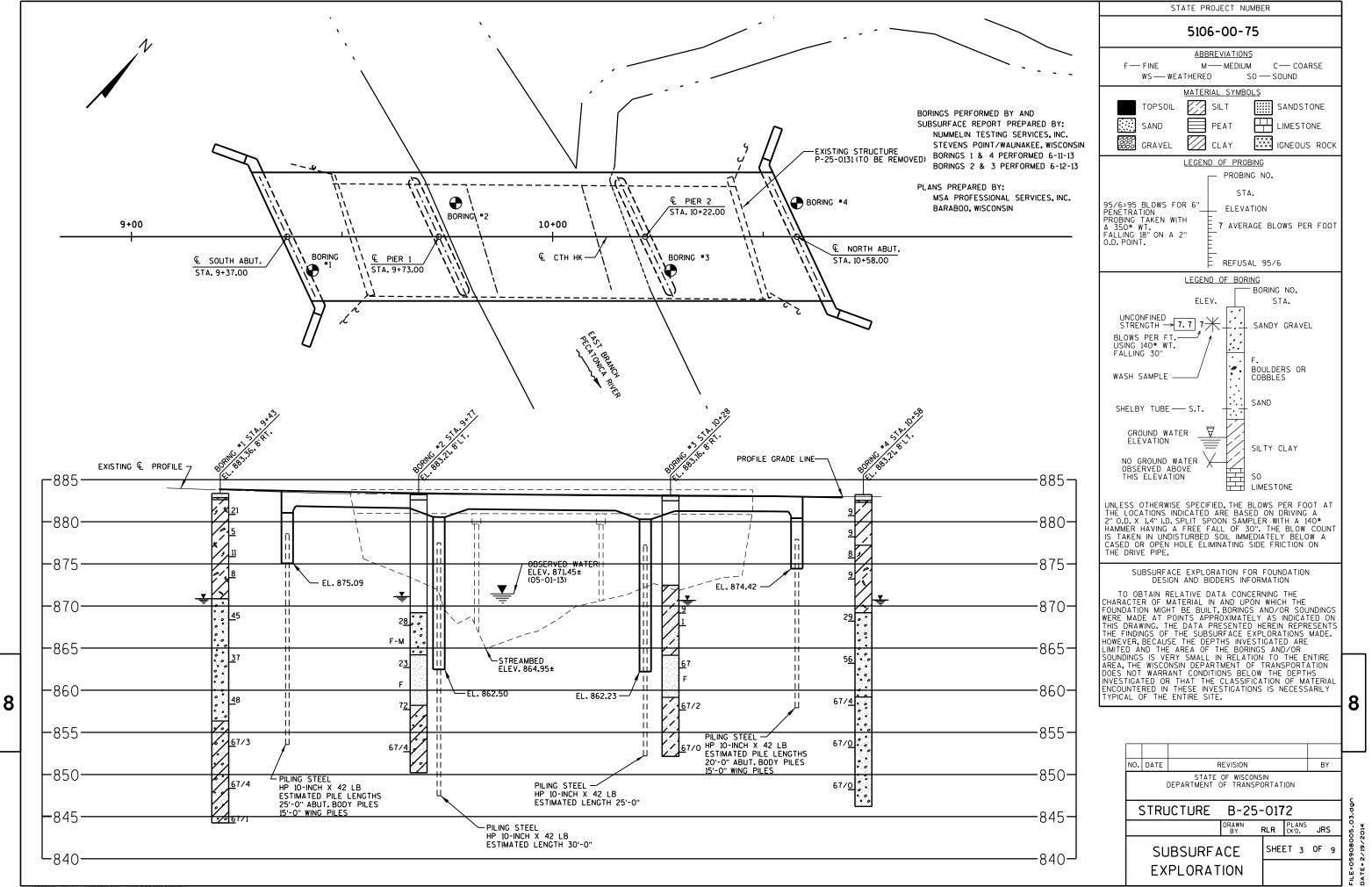
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

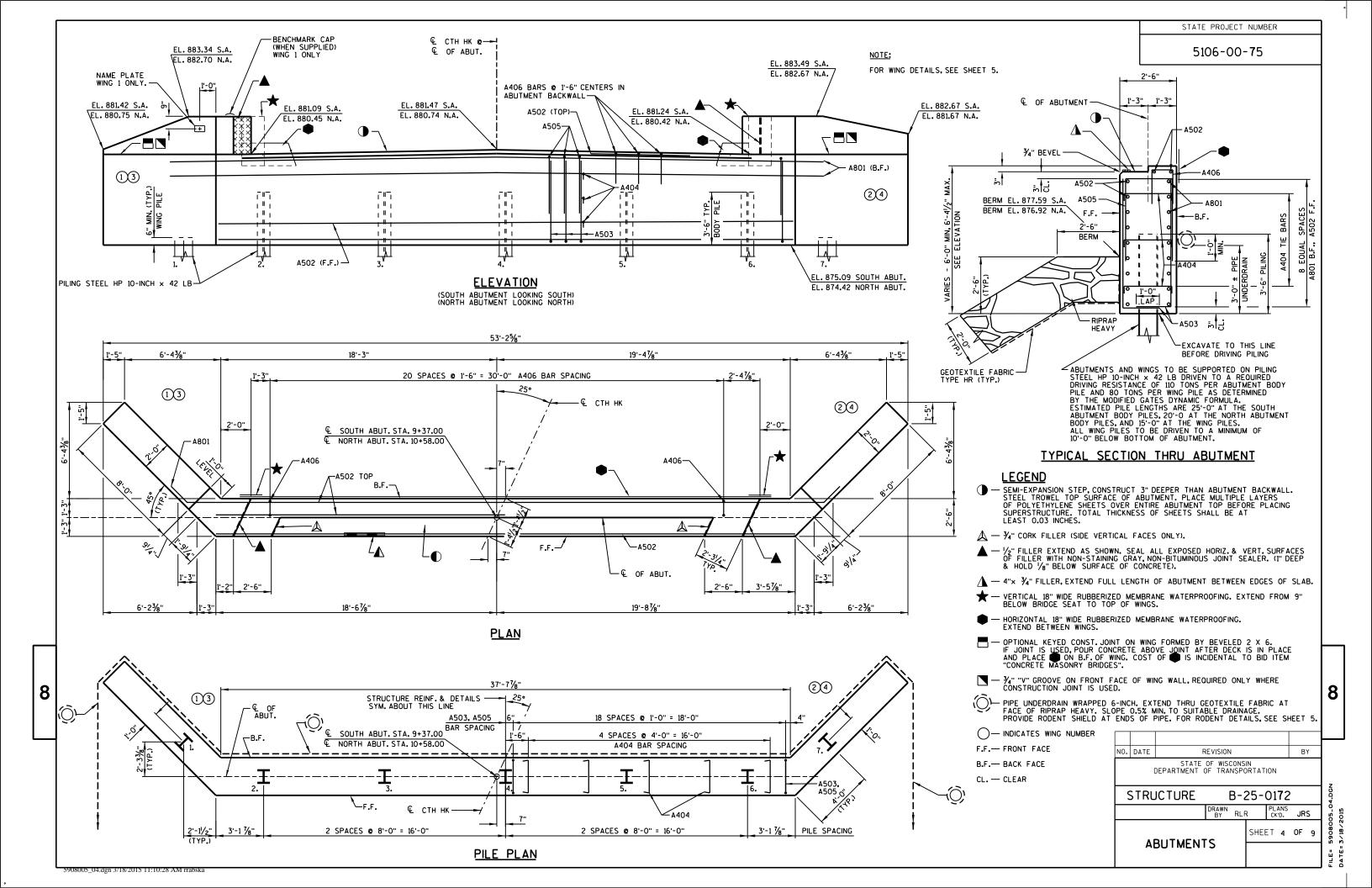
STRUCTURE B-25-0172

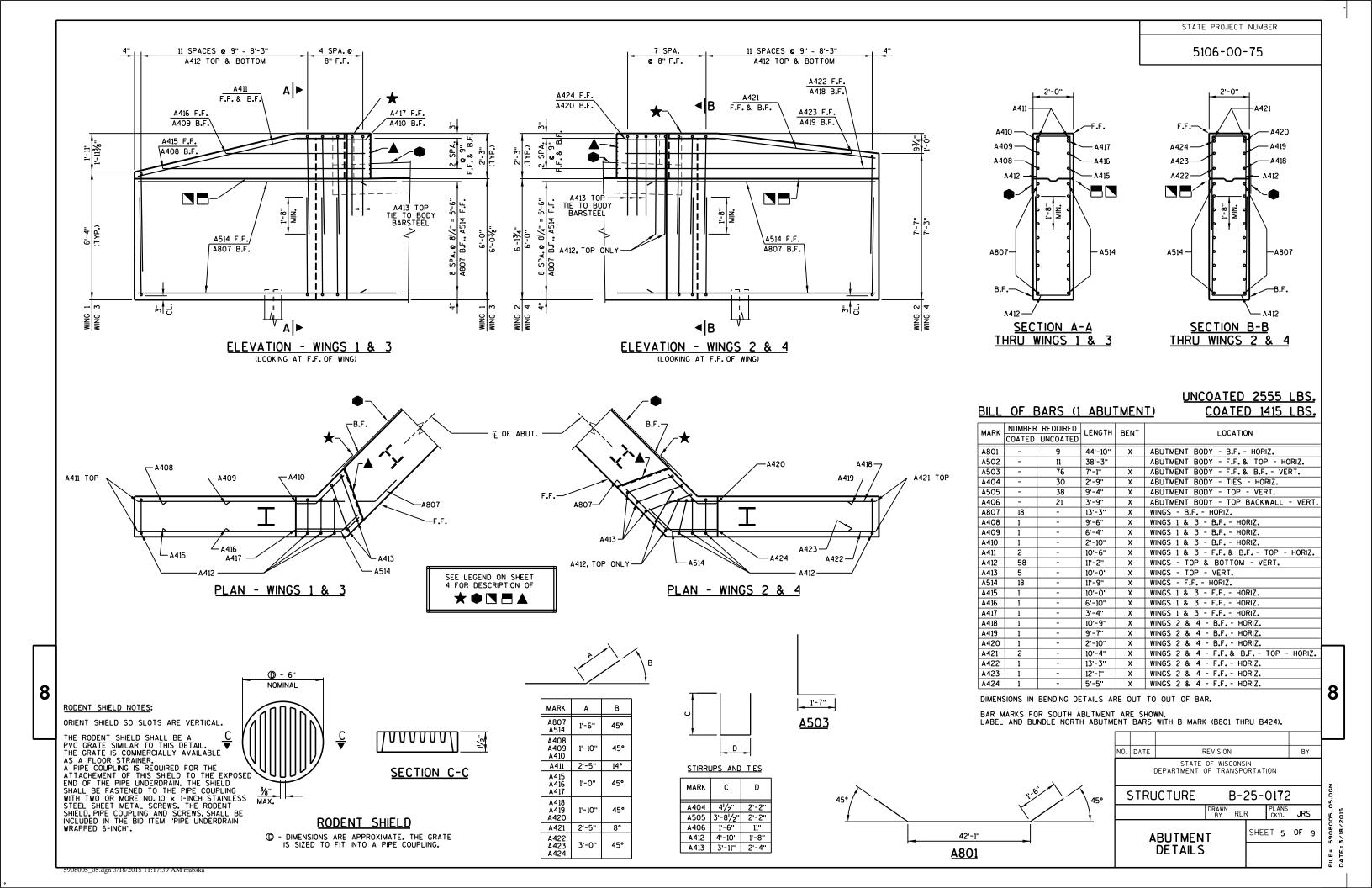
DRAWN
BY RLR PLANS
KG. JRS

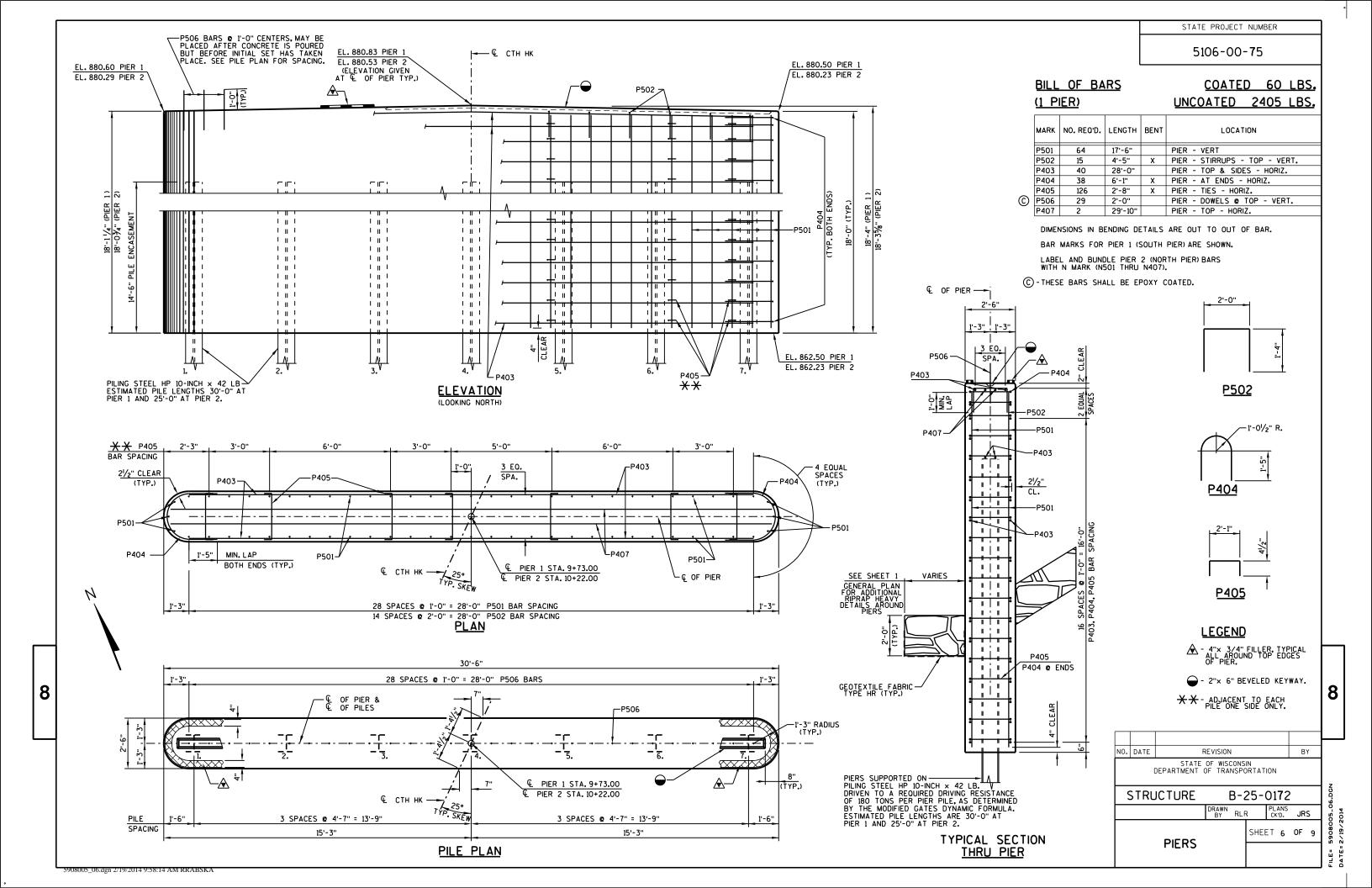
CROSS SECTION SHEET 2 OF & OUANTITIES

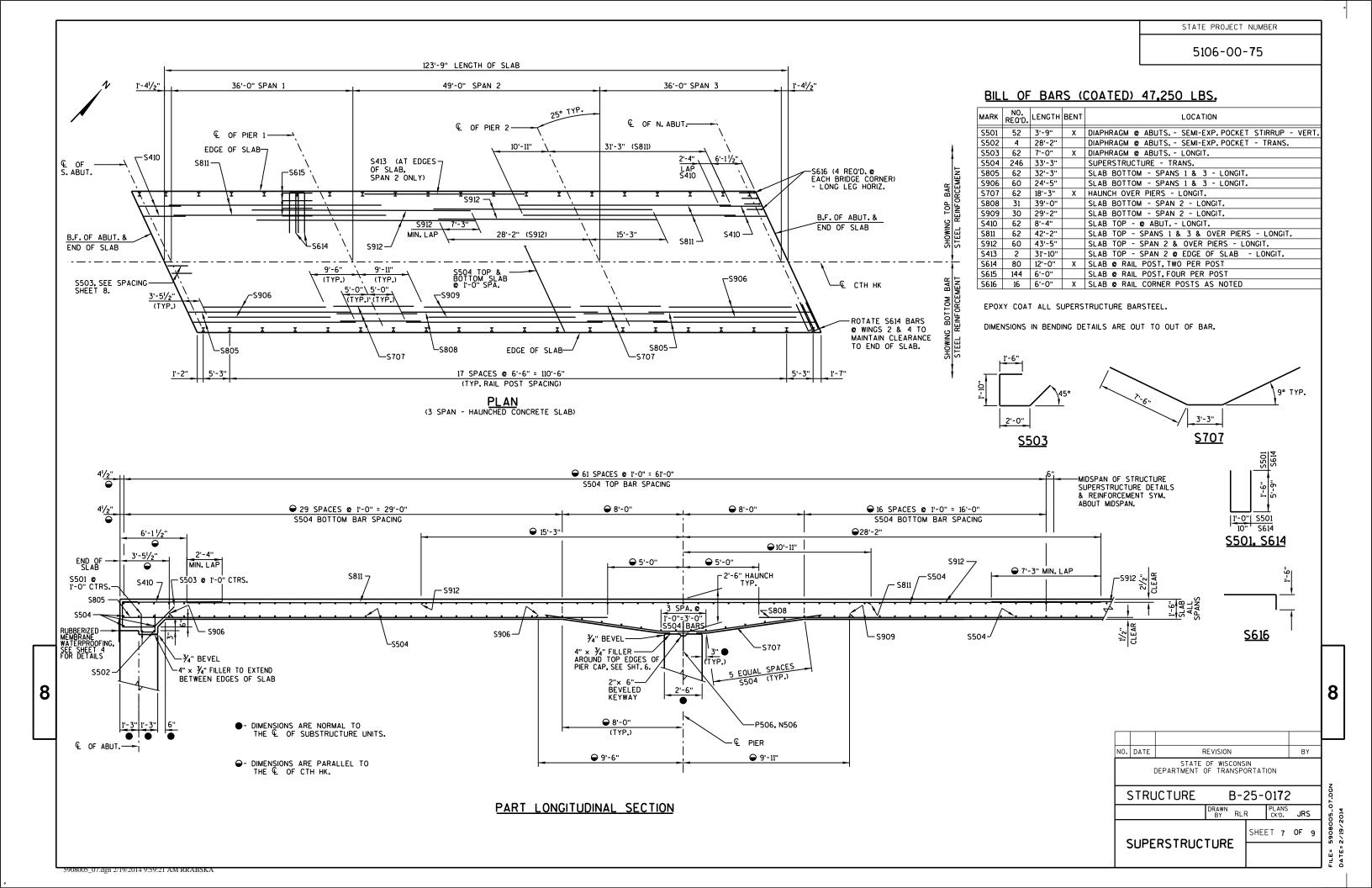
8







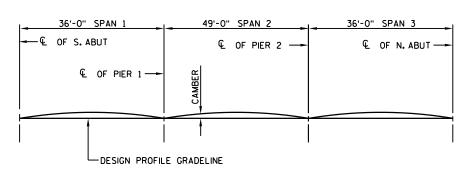




5106-00-75

TOP OF SLAB ELEVATIONS AND CAMBER VALUES

		EAST	C/L	WEST	CAMBER
	SPAN	SLAB	СТН НК	SLAB	VALUE
LOCATION	POINT	EDGE		EDGE	(INCHES)
SOUTH ABUT.	1.0	883.34	883.72	883.49	0.00
	1.1	883.30	883.68	883.45	0.13
	1.2	883.27	883.64	883.41	0.24
	1.3	883.24	883.61	883.37	0.30
	1.4	883.20	883.57	883.34	0.31
	1.5	883.17	883.54	883.30	0.27
	1.6	883.14	883.51	883.27	0.19
	1.7	883.11	883.48	883.24	0.10
	1.8	883.08	883.45	883.20	0.03
	1.9	883.06	883.42	883.17	0.00
PIER 1	2.0	883.03	883.39	883.14	0.00
	2.1	883.00	883.35	883.10	0.06
	2.2	882.96	883.32	883.06	0.20
	2.3	882.93	883.28	883.03	0.38
	2.4	882.90	883.25	882.99	0.52
	2.5	882.87	883.22	882.96	0.57
	2.6	882.85	883.19	882.93	0.52
	2.7	882.82	883.16	882.90	0.38
	2.8	882.80	883.14	882.87	0.20
	2.9	882.78	883.12	882.85	0.06
PIER 2	3.0	882.76	883.09	882.82	0.00
	3.1	882.75	883.08	882.80	0.00
	3.2	882.74	883.07	882.79	0.03
	3.3	882.73	883.05	882.77	0.10
	3.4	882.72	883.04	882.76	0.19
	3.5	882.71	883.03	882.75	0.27
	3.6	882.70	883.02	882.74	0.31
	3.7	882.69	883.01	882.72	0.30
	3.8	882.68	883.00	882.71	0.24
	3.9	882.68	883.00	882.71	0.13
NORTH ABUT.	4.0	882.67	882.99	882.70	0.00



CAMBER DIAGRAM

CAMBER SPANS AS SHOWN ABOVE AND IN THE TABLE OF VALUES TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT. DEAD LOAD DEFLECTION APPROXIMATES 1/3 OF CAMBER VALUES SHOWN.

GENERAL NOTES

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

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

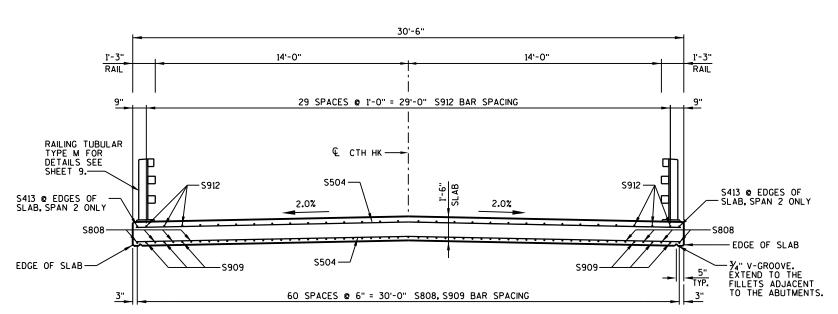
PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE € OF ABUTMENTS, THE € OF PIERS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGES OF SLAB AND STRUCTURE €.

ALL TRANSVERSE BAR REINFORCEMENT SHALL BE PLACED ON THE SKEW. $\,$

NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-25-0172 DRAWN BY RLR PLANS CKD. JRS SUPERSTRUCTURE SHEET 8 0F 9

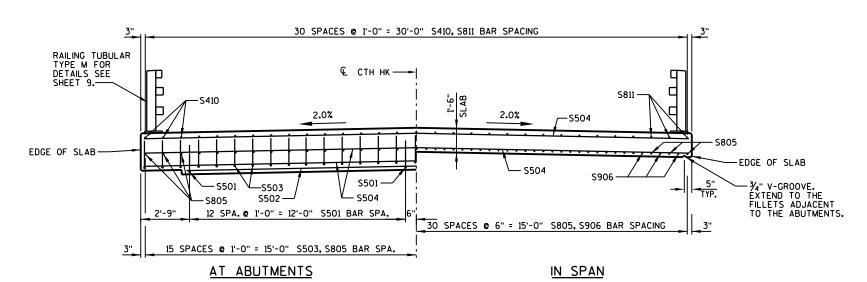
DETAILS

8



CROSS SECTION THRU BRIDGE - SPAN 2

(LOOKING NORTH)

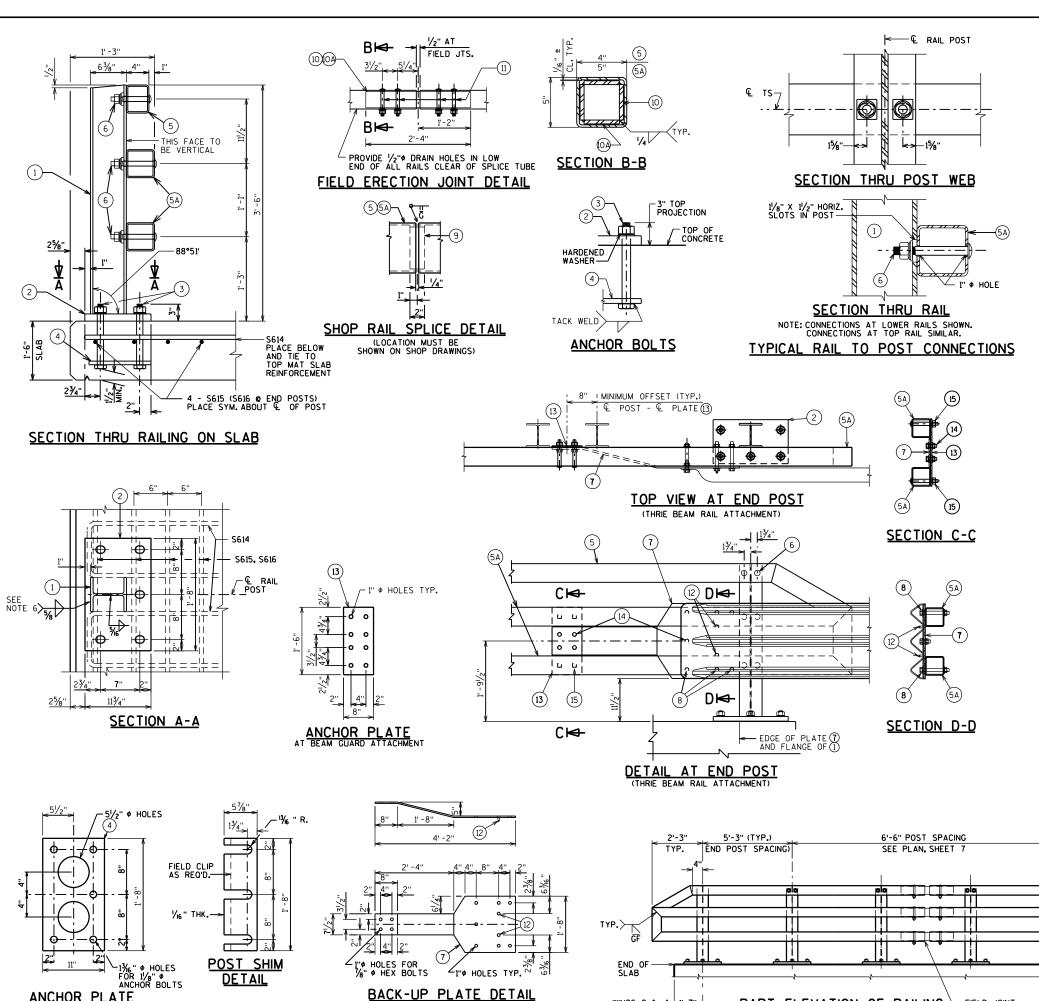


EDGE OF SLAB S811 2.0% S504 S707 S504 S912 S707 S707

CROSS SECTION THRU BRIDGE - SPANS 1 & 3

SECTION THRU BRIDGE AT PIERS

(LOOKING NORTH)



AT BEAM GUARD ATTACHMENT

5106-00-75

STATE PROJECT NUMBER

- ① 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 $1!/4" \times 11^3/4" \times 1^{-8}"$ WITH $1^{1}/_{6}" \times 1^{5}/_{6}"$ 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 RED'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-3" LONG.
- 4 %" x 11" x 1'-8" ANCHOR PLATE (GALVANIZED) WITH 1%" DIA. HOLES FOR ANCHOR BOLTS NO. 3
- (5) TS 5 × 4 × 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.
- 5A TS 5 × 5 × 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.
- 6 % " DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, % " X 1%" X 1%" WASHER, AND LOCK WASHER (2 REO'D. AT EACH RAIL TO POST LOCATION.)
- (7) 1/2" THK. BACK-UP PLATE WITH 2 1/4" X 1/2" 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) 1" 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 1/4" PLATE. PROVIDE "SLIDING FIT".
- 10 3/8" X 35/8" X 2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.
- (O) ¾" x 2½" x 2'-4" PLATE USED IN NO.5, ¾" x 3½" x 2'-4" PLATE USED IN NO.5A. 2 PER RAIL.
- (1) % * A 325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE % " X 1/4" LONGIT. SLOTTED HOLES AT FIELD JOINTS IN PLATE NO. 10A.
- 12 1/8" DIA. X 11/2" LONG THREADED SHOP WELDED STUDS (2 REO'D).
- $(\ensuremath{\overline{3}})$ %" x 8" x 1'-6" anchor plate. Bolt to rail as shown in detail. Reo'd at thrie beam guard rail attachments only. Place sym. about tubes no.5a.
- 4 %" DIA. X 2" LONG A325 HEX BOLT WITH NUT AND WASHER (5 REQUIRED).
- (5) I" ϕ Holes in Tubes no.5A for %" DIA. A325 Round HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER (4 REO'D.). 4 HOLES IN TUBES.

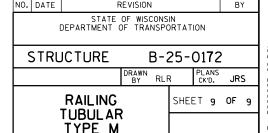
GENERAL NOTES

- BID ITEM SHALL BE "RAILING TUBULAR TYPE M B-25-0172" WHICH INCLUDES ALL ITEMS SHOWN.
- 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.
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL $^{\prime}\!/_{8}$ TURN.
- 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.
- ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
- 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. FOR ALIGNMENT.
- 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.
- 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. PAINTING IS NOT REQUIRED.

PART ELEVATION OF RAILING

WINGS 1 & 3 1'-2"

- 11. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).
- 12. THRIE BEAM RAIL ATTACHMENT IS INCLUDED FOR FUTURE USE. ENSURE PROPER FIT BUT DO NOT MOUNT TO RAILING.



8

ANCHOR PLATE

EARTHWORK PROJECT I.D. 5106-00-75

		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (C'	Y)	
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	Note 3	Note 1		Note 8
8+00		38	0	0	0	0	0	0	0	0
8+50	50	42	0	31	74	0	57	74	71	3
9+00	50	38	0	44	74	0	81	148	172	-24
9+35.62	35.62	38	0	44	50	0	58	198	245	- 46
B-25-0171										
					198	0	196			

- 1) CUT CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
- 2) SALVAGED/UNUSABLE PAVEMENT MATERIAL THIS DOES NOT SHOW UP IN CROSS SECTIONS
- 3) FILL DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
- 8) MASS ORDINATE IF MARSH OR EBS TO BE BACKFILLEDWITH GRANULAR: (CUT + EBS + MARSH EXC) (FILL (REDUCED MARSH IN FILL) (REDUCED EBS IN FILL) (EXPANDED ROCK)) * FILL FACTOR

EARTHWORK PROJECT I.D. 5106-00-75

		AREA (SF)			Incremental Vol	(CY) (Unadjusted)		Cumulative Vol (C	Y)	
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Cut 1.00 Note 1	Expanded Fill 1.25	Mass Ordinate
					Note i	Note 2	Note 3	Note i		Note 8
B-25-0171										
10+59.38		46	0	69	0	0	0	0	0	0
11+00	40.62	46	0	69	70	0	103	70	129	- 59
11+50	50	46	0	69	86	0	127	155	288	- 133
12+00	50	25	0	0	75	0	64	230	368	-138

- 1) CUT CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
- 2) SALVAGED/UNUSABLE PAVEMENT MATERIAL THIS DOES NOT SHOW UP IN CROSS SECTIONS $\,$
- 3) FILL DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
- 8) MASS ORDINATE IF MARSH OR EBS TO BE BACKFILLEDWITH GRANULAR: (CUT + EBS + MARSH EXC) (FILL (REDUCED MARSH IN FILL) (REDUCED EBS IN FILL) (EXPANDED ROCK)) * FILL FACTOR

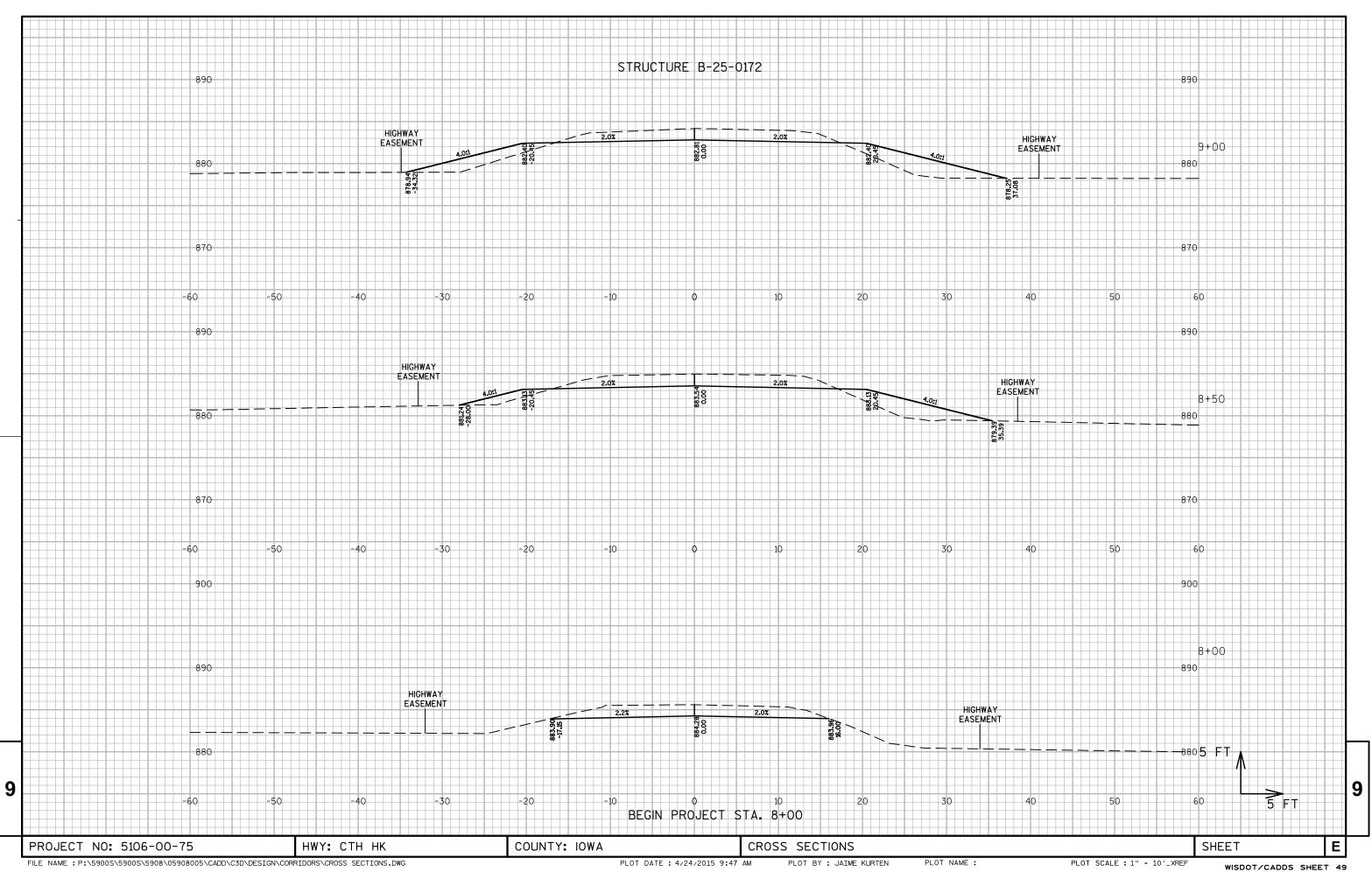
PROJECT NO: 5106-00-75 HWY: CTH HK COUNTY: IOWA EARTHWORK SHEET E

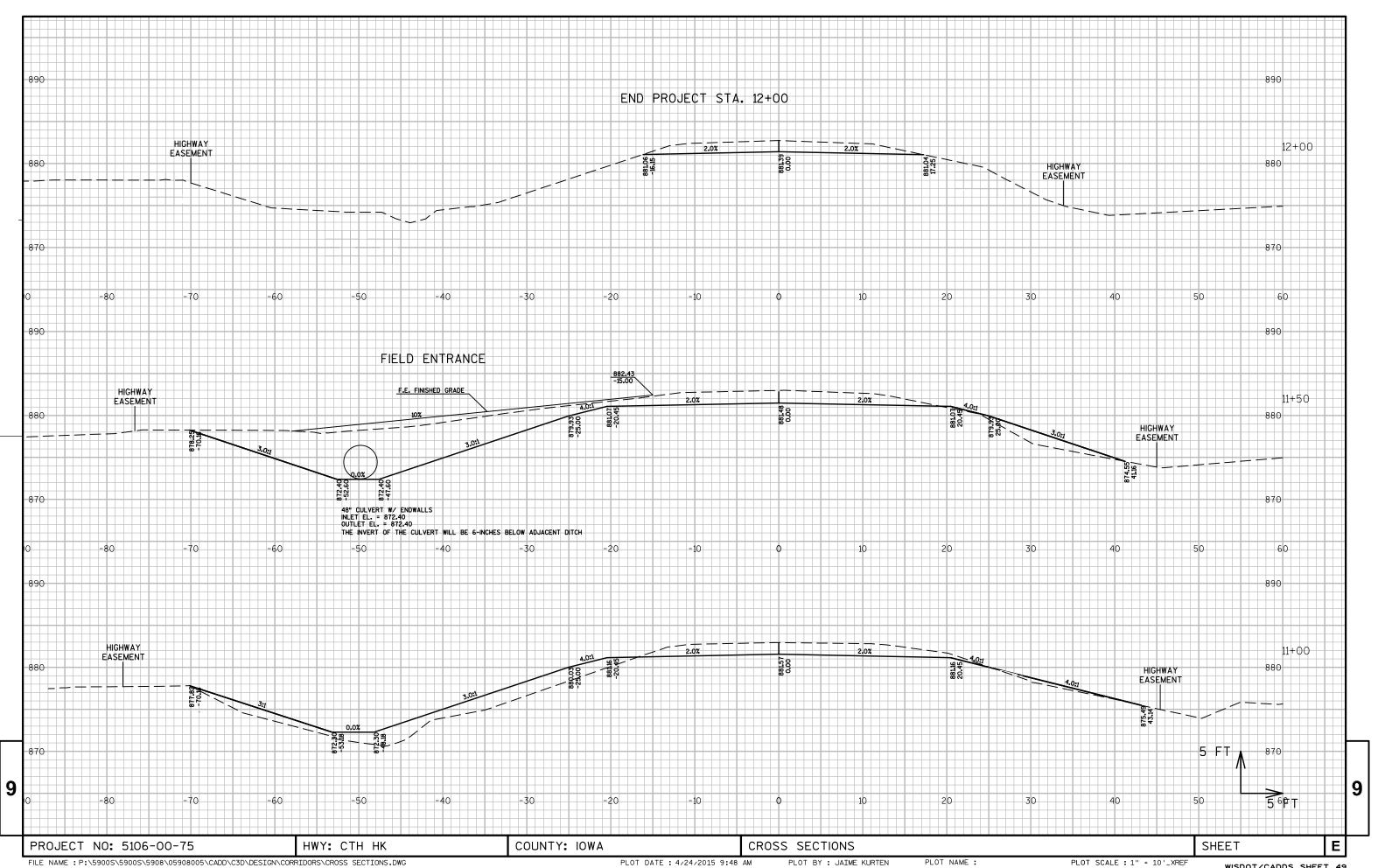
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PLOT DATE: 11/20/2013

PLOT NAME :

PLOT BY : Jdolens





Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

NOV 2015 ORDER OF SHEETS

Section No. 1

Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities

Miscellaneous Quantitles Right of Way Plat

Plan and Profile (Includes Erosion Control)

Standard Detail Drawings

Sign Plates Structure Plans

Computer Earthwork Data

Cross Sections

TOTAL SHEETS = 40

DESIGN DESIGNATION

A.A.D.T. 2034 = 100 D.H.V. = 18 = 50/50 D.D. = 6% DESIGN SPEED = 25 MPH

= 14,600

CONVENTIONAL SYMBOLS

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE SLOPE INTERCEPT UTILITIES REFERENCE LINE ELECTRIC EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT (Box or Pipe)

CULVERT (Profile View) SANITARY SEWER STORM SEWER TELEPHONE WATER UTILITY PEDESTAL POWER POLE TELEPHONE POLE

_ LABEL_ _ _

PROFILE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

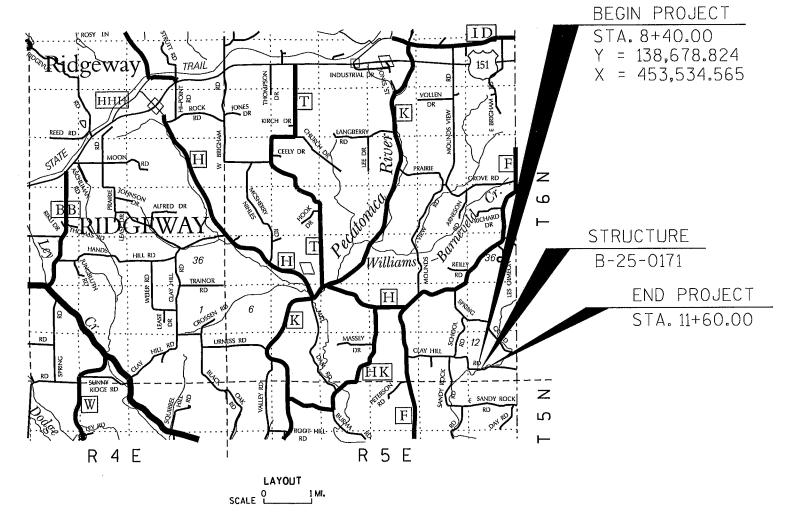
PLAN OF PROPOSED IMPROVEMENT

TOWN OF BRIGHAM, CLAY HILL ROAD

(GORDON CREEK BRIDGE B-25-0171)

TOWN ROAD **IOWA COUNTY**

STATE PROJECT NUMBER 5626-00-72



TOTAL NET LENGTH OF CENTERLINE = 0.061 MI.

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

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT WISC 2015186 5626-00-72

> ACCEPTED FOR ACCEPTED FOR

ORIGINAL PLANS PREPARED BY

2901 International Lane, Suite 300 Madison, WI 53704-3133



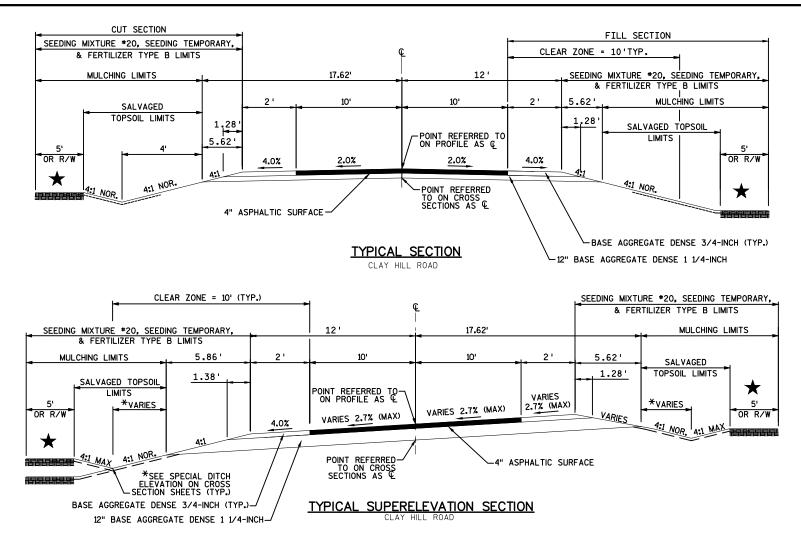
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor

MSA PROFESSIONAL SERVICES MSA PROFESSIONAL SERVICES

Management Consultant <u>KJOHNSON ENGINEERS, INC.</u>



RUNOFF COEFFICIENT TABLE

						HYDROLOGIC SC	OIL GROUP					
		A			В			С			D	
	SLOPE	RANGE	(PERCENT)	SLOPE	E RANGE	(PERCENT)	SL0P	E RANGE	(PERCENT)	SL0PE	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	.27 .44	.15	.24 .37	.33 .50	.19 .34	.28	.38
MEDIAN STRIP- TURF	.19	.20	.24 .30	.19 .25	.22	.26 .33	.20	.23	.30 .37	.20	.25	.30
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30
PAVEMENT:	1				1		-					<u> </u>
ASPHALT						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS		.7585										
ROOFS		.7595										
GRAVEL ROADS,	SHOULDE	ERS				.4060						

TOTAL PROJECT AREA = 0.56 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.46 ACRES

GENERAL NOTES

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

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

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

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD88 BENCHMARK WITH ELEVATION OF 1064.80 LOCATED 1.0 MILES NORTHWEST OF THE EXISTING BRIDGE, THE STATION IS A BRONZE WISDOT GEODETIC SURVEY CONTROL STATION .

THE 4" ASPHALTIC SURFACE SHALL BE CONSTRUCTED USING A 2.25" LOWER LAYER AND A 1.75" UPPER LAYER.

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

TEMPORARY DITCH CHECKS, IF NEEDED, SHALL BE PLACED AS DIRECTED BY THE ENGINEER.

THE ASPHALTIC SURFACE SHALL TAPER FROM 26.83 FEET AT THE END OF THE BRIDGE TO 20.0 FEET AT ± 30 FEET FROM THE BRIDGE ENDS.

TOWN OF BRIGHAM WILL REMOVE EXISTING SIGNS AND POSTS INSIDE THE PROJECT AREA. CONTRACTOR TO NOTIFY TOWN OF BRIGHAM 5 WORKING DAYS BEFORE SIGNS NEED TO BE REMOVED.

** WETLANDS EXIST AT STA. 9+91 TO 10+14, LT, STA. 10+11 TO STA. 10+40, LT, STA. 10+15 TO STA. 10+30, RT AND STA. 9+66 TO STA. 9+90, RT. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE SLOPE INTERCEPT IN THESE AREAS.

DESIGN CONTACT

MSA PROFESSIONAL SERVICES. INC. ATTN: MICHAEL J. STATZ, P.E. 2901 INTERNATIONAL LANE, SUITE 300 MADISON, WI 53704-3133 PHONE: (608) 242-7779 EMAIL: MSTATZ@MSA-PS.COM

IOWA COUNTY ATTN: CRAIG HARDY, COMMISSIONER 1215 NORTH BEQUETTE STREET DODGEVILLE, WI 53533 PHONE: (608) 935-3381 EMAIL: CRAIG.HARDY@IOWACOUNTY.ORG

TOWN OF BRIGHAM ATTN: DOUG REESON, CHAIRMAN 407 F CTH TD BARNEVELD, WI 53507 PHONE: (608) 924-1345

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES ATTN: ANDY BARTA ENVIRONMENTAL REVIEW AND ANALYSIS SPECIALIST 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711-5397 PHONE: (608) 275-3308

EMAIL: ANDREW.BARTA@WISCONSIN.GOV

UTILITIES

TELEPHONE: MOUNT HOREB TELEPHONE COMPANY ATTN: KEVIN MAYNE 305 NORTH IOWA STREET DODGEVILLE, WI 53533 PHONE: (608) 930-9985 KEVIN.MAYNE@MHTCINC.COM

ELECTRIC: WISCONSIN POWER & LIGHT ATTN: JASON HEMING 490 SHAKERAG STREET MINERAL POINT, WI 53565 PHONE: (608) 987-4242 EMAIL: JASON.HEMING@ALLIANTENERGY.COM

**-DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

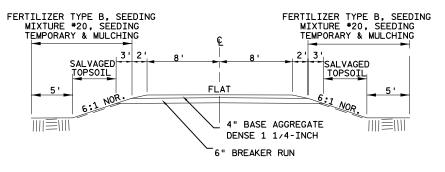


PROJECT NO: 5626-00-72 HWY: CLAY HILL ROAD COUNTY: IOWA TYPICAL SECTION AND GENERAL NOTES

PLOT SCALE : 1 IN:200 FT

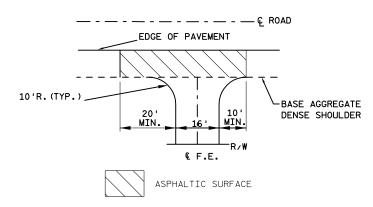
Ε

SHEET



FIELD ENTRANCE - TYPICAL SECTION

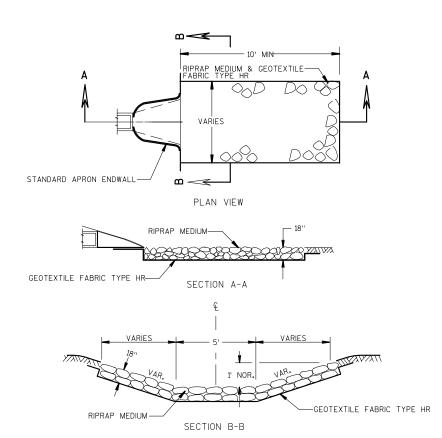
FIELD ENTRANCE DETAILS



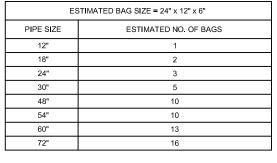
EROSION MAT DITCH DETAIL

LIMITS OF EROSION MAT

FIELD ENTRANCE PLAN

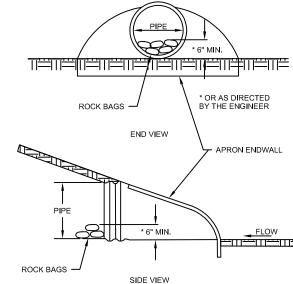


RIPRAP MEDIUM AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS



VARIES

EROSION MAT-



CULVERT PIPE CHECKS

PROJECT NO: 5626-00-72 HWY: CLAY HILL ROAD COUNTY: IOWA TYPICAL SECTION AND GENERAL NOTES SHEET **E**

DATE 24 LINE	AUG15	EST	ГІМАТІ	E OF QUAN	T I T I E S 5626-00-72	
NUMBER	LTFM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTI TY	
0010	201. 0105	Clearing	STA	1.000	1. 000	
0020	201. 0205	Grubbi ng	STA	1.000	1. 000	
0030	203. 0100	Removing Small Pipe Culverts	EACH	1.000	1. 000	
0040	203. 0600. 5	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 10+00,	LS	1. 000	1. 000	
0060	205. 0100	5626-00-72 Excavation Common	CY	670.000	670. 000	
0070	206. 1000	Excavation for Structures Bridges (structure) 01. B-25-0171	LS	1. 000	1. 000	
0100	210. 0100	Backfill Structure	CY	260.000	260. 000	
0110	213. 0100	Finishing Roadway (project) 01. 5626-00-72	EACH	1. 000	1. 000	
0130	305. 0110	Base Aggregate Dense 3/4-Inch	TON	35. 000	35. 000	
0140	305. 0120	Base Aggregate Dense 1 1/4-Inch	TON	670. 000	670. 000	
0150	311. 0110	Breaker Run	TON	220.000	220. 000	
0160 0170	455. 0605 465. 0105	Tack Coat Asphaltic Surface	GAL TON	35. 000 155. 000	35. 000 155. 000	
0170	502. 0105	Concrete Masonry Bridges	CY	140. 000	140. 000	
0180	502. 0100	Protective Surface Treatment	SY	180. 000	180. 000	
0170	302. 3200	. 10 tooti vo Sui raco ii catillolit	J.	100.000	100.000	
0200 0210	505. 0405 505. 0605	Bar Steel Reinforcement HS Bridges Bar Steel Reinforcement HS Coated	LB LB	4, 410. 000 15, 490. 000	4, 410. 000 15, 490. 000	
0220	513. 4060	Bridges Railing Tubular Type M (structure) 01. B-25-0171	LS	1. 000	1. 000	
0240	516. 0500	Rubberized Membrane Waterproofing	SY	12. 000	12. 000	
0250	520. 0118	Culvert Pipe Class III 18-Inch	LF	37. 000	37. 000	
0270	520. 1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	2.000	2. 000	
0290	550. 1100	Piling Steel HP 10-Inch X 42 Lb	LF	280.000	280. 000	
0300	606.0200	Ri prap Medi um	CY	14.000	14.000	
0310	606. 0300	Ri prap Heavy	CY	150.000	150. 000	
0320	612. 0406	Pipe Underdrain Wrapped 6-Inch	LF	170. 000	170. 000	
0330	619. 1000	Mobilization	EACH	0. 450	0. 450	
0340	624. 0100	Water	MGAL	15. 000	15. 000	
0350	625. 0500	Sal vaged Topsoi I **P**	SY	890. 000	890. 000	
0360	627. 0200	Mul chi ng **P**	SY	800.000	800. 000	
0370	628. 1504	Silt Fence	LF	200. 000	200. 000	
0380	628. 1520	Silt Fence Maintenance	LF	400.000	400. 000	
0390	628. 1905	Mobilizations Erosion Control	EACH	2.000	2. 000	
0400	628. 1910	Mobilizations Emergency Erosion Control	EACH	2.000	2. 000	
0410	628. 2004	Erosion Mat Class I Type B	SY	300.000	300.000	
0420	628. 2006	Erosion Mat Urban Class I Type A	SY	50.000	50. 000	
0430	628. 6005	Turbi di ty Barri ers	SY	280. 000	280. 000	
0440	628. 7504	Temporary Ditch Checks	LF	50.000	50.000	
0450	628. 7555	Cul vert Pi pe Checks	EACH	6. 000	6. 000	
0460	628. 7560	Tracking Pads	EACH	2.000	2. 000	
0470	629. 0210	Fertilizer Type B	CWT	0. 800	0. 800	
0480	630. 0120	Seeding Mixture No. 20 **P**	LB	40.000	40.000	
0500	630. 0200	Seeding Temporary **P**	LB	20. 000	20. 000	
0510	631. 1100	Sod Erosion Control	SY	50. 000	50. 000	
0520	633. 5100	Markers Row	EACH	6. 000	6. 000	
0530	634. 0612	Posts Wood 4x6-Inch X 12-FT	EACH	4. 000	4. 000	
0550	637. 2210	Signs Type II Reflective H	SF	12. 000	12. 000	
0560	642. 5001	Field Office Type B	EACH	0.500	0. 500	
0570 0590	643. 0100 645. 0120	Traffic Control (project) 01. 5626-00-72 Geotextile Fabric Type HR	EACH SY	1. 000 360. 000	1. 000 360. 000	
0070	045. 0120	dediextile rabile type nk	JI	300.000	300.000	

DATE 24 LINE	AUG15	E S	ТІМАТ	E OF QUAN	T I T I E S 5626-00-72
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0610	650. 4500	Construction Staking Subgrade	LF	282. 000	282. 000
0620	650. 5000	Construction Staking Base	LF	282. 000	282. 000
0630	650. 6000	Construction Staking Pipe Culverts	EACH	1.000	1.000
0640	650. 6500	Construction Staking Structure Layout (structure) 01. B-25-0171	LS	1. 000	1. 000
0660	650. 9910	Construction Staking Supplemental Control (project) 01. 5626-00-72	LS	1. 000	1. 000
0680	650. 9920	Construction Staking Slope Stakes	LF	282. 000	282. 000
0690	690. 0150	Sawing Asphal t	LF	40. 000	40. 000
0700	715.0502	Incentive Strength Concrete Structures	DOL	840.000	840.000
0710	ASP. 1TOA	On-the-Job Training Apprentice at \$5. OO/HR	HRS	175. 000	175. 000
0720	ASP. 1TOG	On-the-Job Training Graduate at \$5.00/HR	HRS	120.000	120. 000

REMOVING SMALL PIPE CULVERTS

						(203.0100)
CATEGORY	STATION	LOCATION	TYPE	DIAMETER	LENGTH	EACH
0010	10+60	RT	CMP	18"	17'	1
				PROJEC1	TOTAL	1

BASE AGGREGATE DENSE

				(305.0110) 3/4-INCH	(305.0120) 1 1/4-INCH
CATEGORY	STATION	TO STATION	LOCATION	TON	TON
0010	8+40	9+87.69	RT & LT	20	345
	10+26.46	11+60	RT & LT	15	310
	FE	10+60	RT	-	15
	F	PROJECT TOTAL	LS	35	670

BREAKER RUN

				(311.0110)
CATEGORY	STATION	TO STATION	LOCATION	TON
0010	10+53	10+69	RT	24
		UNDISTRIBUTE	D	196
		PROJECT TOTA	\L	220

ASPHALTIC SURFACE

	PROJE	CT TOTALS	35	155
	10+26.46	11+60	17	75
0010	8+40	9+87.69	18	80
CATEGORY	STATION	TO STATION	GAL	TON
			(455.0605) TACK COAT	(465.0105

CULVERT PIPE

	PROJEC:	T TOTALS	37			2	1	8
010	10+60	RT	37	0.064	0.060	2	1	8
CATEGORY	STATION	LOCATION	LF	IN	IN	EACH	EACH	EACH
			18-INCH	STEEL	ALUM	PIPE 18-INCH	PIPE CULVERTS	*
			CLASS III	THICK	NESS	FOR CULVERT	STAKING	TIES
			CULVERT PIPE			APRON ENDWALLS	CONSTRUCTION	JOINT
			(520.0118)			(520.1018)	(650.6000)	

* JOINT TIES INCIDENTAL TO CULVERT PIPE CLASS III

RIPRAP OVER GEOTEXTILE FABRIC

	PROJEC	T TOTALS	14	40
	10+79	RT	7	20
010	10+40	RT	7	20
CATEGORY	STATION	LOCATION	CY	SY
			MEDIUM	TYPE HR
			RIPRAP	GEOTEXTILE FABRIC
			(606.0200)	(645.0120)

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

EARTHWORK PROJECT I.D. 5626-00-72

Division	From/To Station	Location	Common Excavation (1)	(item # 205.0100)	Salvaged/ Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste	Comment:
			Cut (2)	EBS Excavation (3)				Factor			
1	8+40 - 9+87.69	West Clay Hill Road	373	0	0	373	0	0	373	373	
2	10+26.46 - 11+60	East Clay Hill Road	185	0	0	185	8	10	174	174	
	STRUC	TURE B-25-0171	0	0	0	0	0	0	0	0	
	UNDIS	TRIBUTED EBS	0	112	0	0	0	0	0	0	
Grand Total		_	558	112	0	557	8	10	547	547	
	-	_	6	70							

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut.
- 3) EBS Excavation to be backfilled with Breaker Run material.
- 4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut Salvaged/Unusuable Pavement Material
- 13) Expanded Fill. Factor = 1.25
- 14) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

COUNTY: IOWA PROJECT NO: 5626-00-72 HWY: CLAY HILL ROAD MISCELLANEOUS QUANTITIES SHEET

				FINISHIN	IG ITEMS			
				(625.0500) * SALVAGED TOPSOIL	(627.0200) * MULCHING	(629.0210) FERTILIZER TYPE B	(630.0120) * SEEDING MIXTURE NO. 20	(630.0200) * SEEDING TEMPORARY
CATEGORY	STATION	TO STATION	LOCATION	SY	SY	CWT	LB	LB
0010	8+40	10+25	LT	290	250	0.2	10	5
	8+40	9+85	RT	240	200	0.2	10	5
	10+05	11+60	RT	220	200	0.2	10	5
	10+35	11+60	LT	140	150	0.2	10	5
		PROJECT TOTA	LS	890	800	0.8	40	20
	* - DENOTES	S TO PAY PLAN	QUANTITY WI	THOUT MEASUR	E			

CATEGORY STATION

10+40

SIL	T FENCE		
		(628.1504)	(628.1520) MAINTENANCE
STATION	LOCATION	LF	LF
11.60	I.T.	120	240

80

160

MOBILIZATIONS EROSION CONTROL

UNDISTRIBUTED

PROJECT TOTALS

		(628.1905)	(628.1910) EMERGENCY
CATEGORY	DESCRIPTION	EACH	EACH
0010	PROJECT 5626-00-72	2	2
	PROJECT TOTALS	2	2

EROSION MAT

				(628.2004)	(628.2006)
				CLASS I	URBAN CLASS I
				TYPE B	TYPE A
CATEGORY	STATION	STATION	LOCATION	SY	SY
0010	8+40	9+83	LT	120	-
	8+40	9+67	RT	105	-
	10+48	11+00	LT	45	-
	ι	JNDISTRIBUTE	D	30	50
	PROJECT TOTALS			300	50

W	ΔΤ	FF	2

		(624.0100)
CATEGORY	DESCRIPTION	MGAL
0010	COMPACTION	7
	DUST CONTROL	3
	UNDISTRIBUTED	5
	PROJECT TOTAL	15

TURBIDITY BARRIERS

	PROJEC	T TOTAL	280
	10+10	LT & RT	140
0010	9+95	LT & RT	140
CATEGORY	STATION	LOCATION	SY
			(628.6005)
			(000 000

TEMPORARY DITCH CHECKS

				(628.7504)
С	ATEGORY	STATION	LOCATION	LF
	0010	UNDISTRIBUTED		50
		PROJE	CT TOTAL	50

PROJECT NO: 5626-00-72

CULVERT PIPE CHECKS

	PROJE	CT TOTAL	6
0010	10+80	RT	6
CATEGORY	STATION	LOCATION	EACH
			(628.7555)

COUNTY: IOWA

HWY: CLAY HILL ROAD

PLOT DATE: 11/8/2013

PLOT BY: Jdolens PLOT NAME:

TO STATION

9+88

11+60

PROJECT 5626-00-72 CATEGORY 0010 SUBTOTALS

STRUCTURE B-25-0171 **CATEGORY 0020 SUBTOTALS**

PROJECT TOTALS

CATEGORY STATION

8+40

10+26

MISCELLANEOUS QUANTITIES

0010

0020

PLOT SCALE: 1:200

(650.5000)

BASE

148

134

282

282

TRACKING PADS

STATION

11+60 PROJECT TOTAL

SOD EROSION CONTROL

UNDISTRIBUTED

PROJECT TOTAL

MARKERS ROW

8+75 9+50

10+50

11+15

11+15

8+75

PROJECT TOTAL

PERMANENT SIGNING

LOCATION

LT

LT

LOCATION

LT & RT

LT & RT

SAWING ASPHALT

PROJECT TOTAL

CONSTRUCTION STAKING

(650.4500)

SUBGRADE

148

134

282

STATION

8+40

11+60

LOCATION

CATEGORY

0010

CATEGORY STATION

CATEGORY POINT NUMBER STATION

STATION

9+81

9+94

10+20

10+33

PROJECT TOTALS

0010

0010

CATEGORY CODE

W5-52R

W5-52L

W5-52L

W5-52R

CATEGORY

0010

LOCATION

LT & RT

LT & RT

(628.7560)

EACH

(631.1100)

SY

50

LOCATION

31.02' LT

40' LT

40' LT

29.85' LT

36.17' RT

35.05' RT

(637.2210)

SIGNS TYPE II

3.0

3.0

3.0

3.0

12.0

(690.0150)

20

(650.6500)

LAYOUT

0

(633.5100)

EACH

(634.0612)

POSTS WOOD

EACH

REFLECTIVE H 4x6-INCH x 12-FT

SHEET

(650.9910)

CONTROL

STRUCTURE SUPPLEMENTAL

(650.9920)

SLOPE STAKES

LF

148

134

282

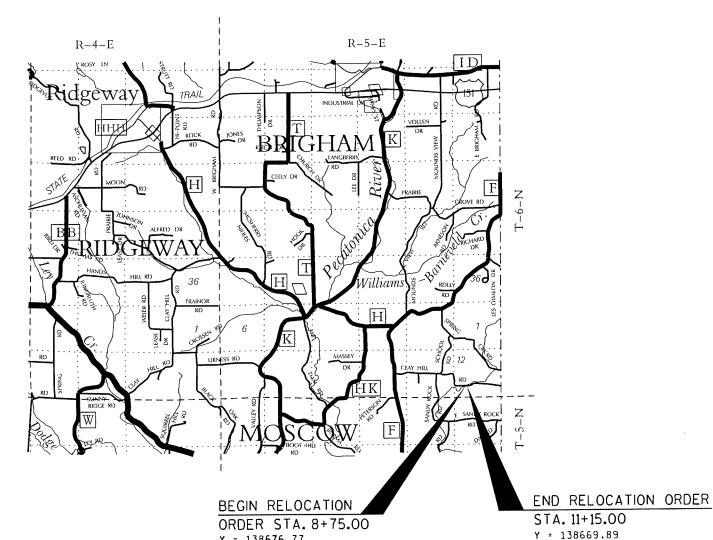
CONVENTION	NAL SYMBOLS	S AND ABBREVI	ATION:	 S
STATE, COUNTY, or TOWN LINE		ACCESS POINT/ DRIVEWAY CONNECTION)N	AP
SECTION LINE		ACCESS RIGHTS		AR
QUARTER LINE		ACRES		AC.
SIXTEENTH LINE		AND OTHERS		ET.AL.
PROPOSED REFERENCE LIN	F 🚓	CENTERLINE		C/L
PROPOSED RAW LINE		CERTIFIED SURVEY MA	₽	CSM
EXISTING H.E. LINE		DOCUMENT		DOC.
PROPERTY LINE		HIGHWAY EASEMENT		H.E.
EASEMENT LINE		LAND CONTRACT		LC
CORPORATE LIMITS	11111111	MONUMENT		MON.
EXISTING CENTERLINE		PAGE		Ρ.
LOT & TIE LINES		PERMANENT LIMITED E	ASEMENT	PLE
UTILITIES		PROPERTY LINE		PL
(TELEPHONE, GAS, ELECTRIC, CABLE IV	(TYPE)	RECORDED AS		(100')
NO ACCESS	Marin Marino	REFERENCE LINE		R/L
BY PREVIOUS ACQUISIT	ION/CONTROL)	REMAINING		REM.
NO ACCESS	111111	RIGHT-OF-WAY		R/W
(BY ACQUISTION)		SECTION		SEC.
NO ACCESS (BY STATUTORY AUTHORI	TY)	SOUARE FEET		SO.FT.
FEE (HATCH VARIES)	12/28	STATION		STA.
TEMPORARY LIMITED	ليباد	TEMPORARY LIMITED E	ASEMENT	TLE
EASEMENT		VOLUME CHOVE D	A T A	٧.
PERMANENT LIMITED EASEMENT	<u> </u>	<u>CURVE</u> D	AIA	
PARCEL NUMBER	6 03	LONG CHORD		LCH
	\simeq	LONG CHORD BEARING		LCB
UTILITY PARCEL NUMBER	(92)	RADIUS		R
SIGN NUMBER	(21-1)	DEGREE OF CURVE		D
(OFF PREMISE)	7.7	CENTRAL ANGLE OR DE	LTA	DELTA
BUILDING	ج	LENGTH OF CURVE		L
FOUND IRON PIPE/PIN	ILP (I' UNLESS NOTED)	TANGENT		TAN
R/W MONUMENT	• •(SET)	22.10	NON	COMPENSIO
R/W STANDARD	△ - (SET)			COMPENSAE
SIGN	ISIGN	POWER POLE	ė «	•
SECTION CORNER SYMBOL		TELEPHONE POLE	ø	5
DESCRIPTION CONTRACT STREET	(無)	TELEPHONE PEDESTAL	Ħ	×

NOTES

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, IOWA COUNTY ZONE, NAD 83 (2011) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS SHALL BE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER SURVEYS OF PUBLIC RECORD.



LAYOUT SCALE L__

TOTAL NET LENGTH OF CENTERLINE = 0.045 MI.

Y = 138676.77

X = 453569.51

RANGE-5-EAST.

1.304.83' NORTH OF AND

SECTION 12, TOWN-5-NORTH.

1,432.51' EAST OF THE

SOUTHWEST CORNER OF

SHEET TOTAL R/W PROJECT NUMBER NUMBER SHEET 5626-00-02 FEDERAL PROJECT NUMBER 4.01

PLAT OF RIGHT-OF-WAY REQUIRED FOR TOWN OF BRIGHAM, CLAY HILL ROAD (GORDON CREEK BRIDGE B-25-0171)

TOWN ROAD

IOWA COUNTY

CONSTRUCTION PROJECT NUMBER 5626-00-72



X = 453809.24

RANGE-5-EAST.

1,271.80' NORTH OF AND

SOUTH QUARTER CORNER OF

SECTION 12, TOWN-5-NORTH,

1.015.04' WEST OF THE



ACCEPTED FOR

BRIGHAM

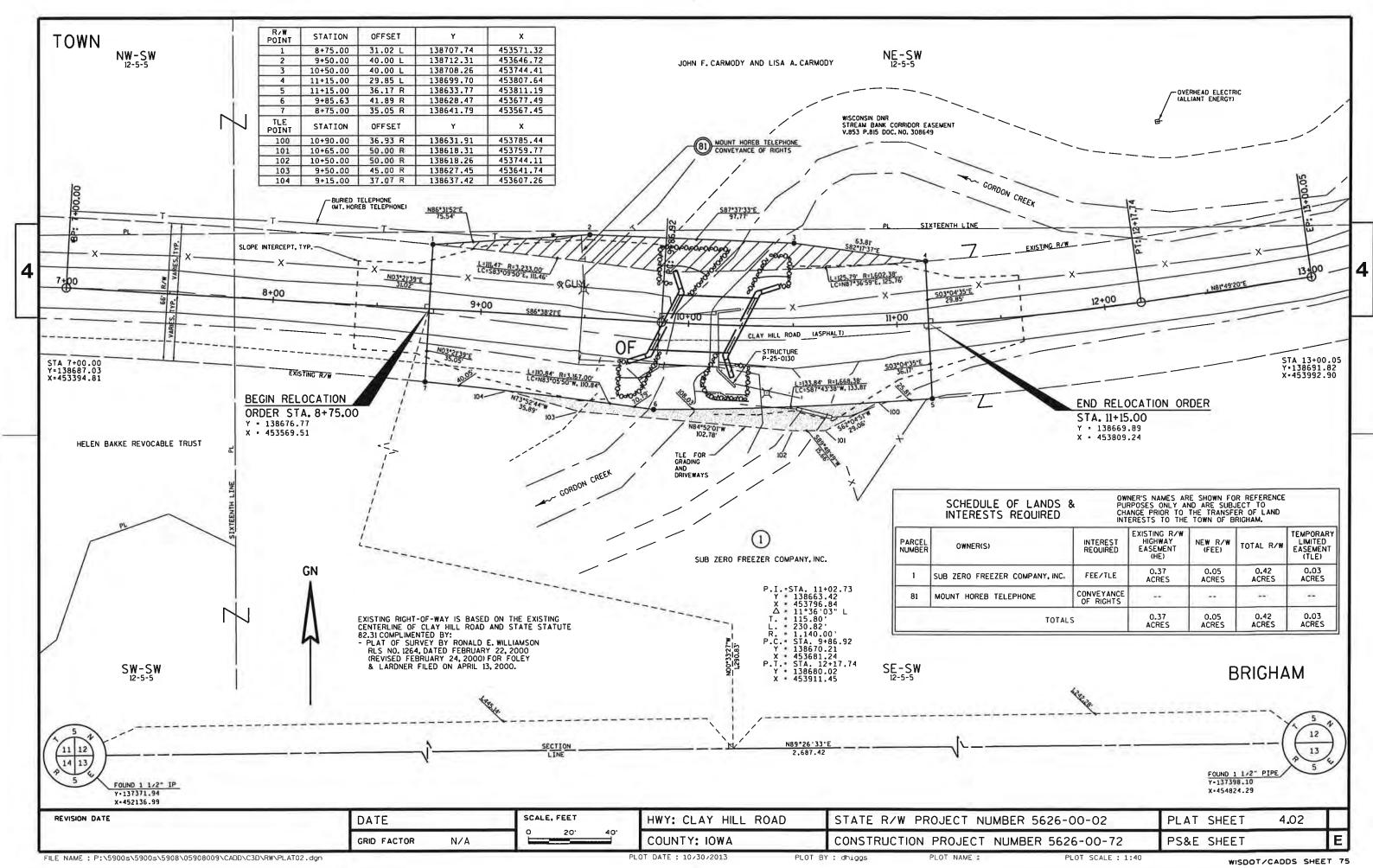
12-4-13 (Date)

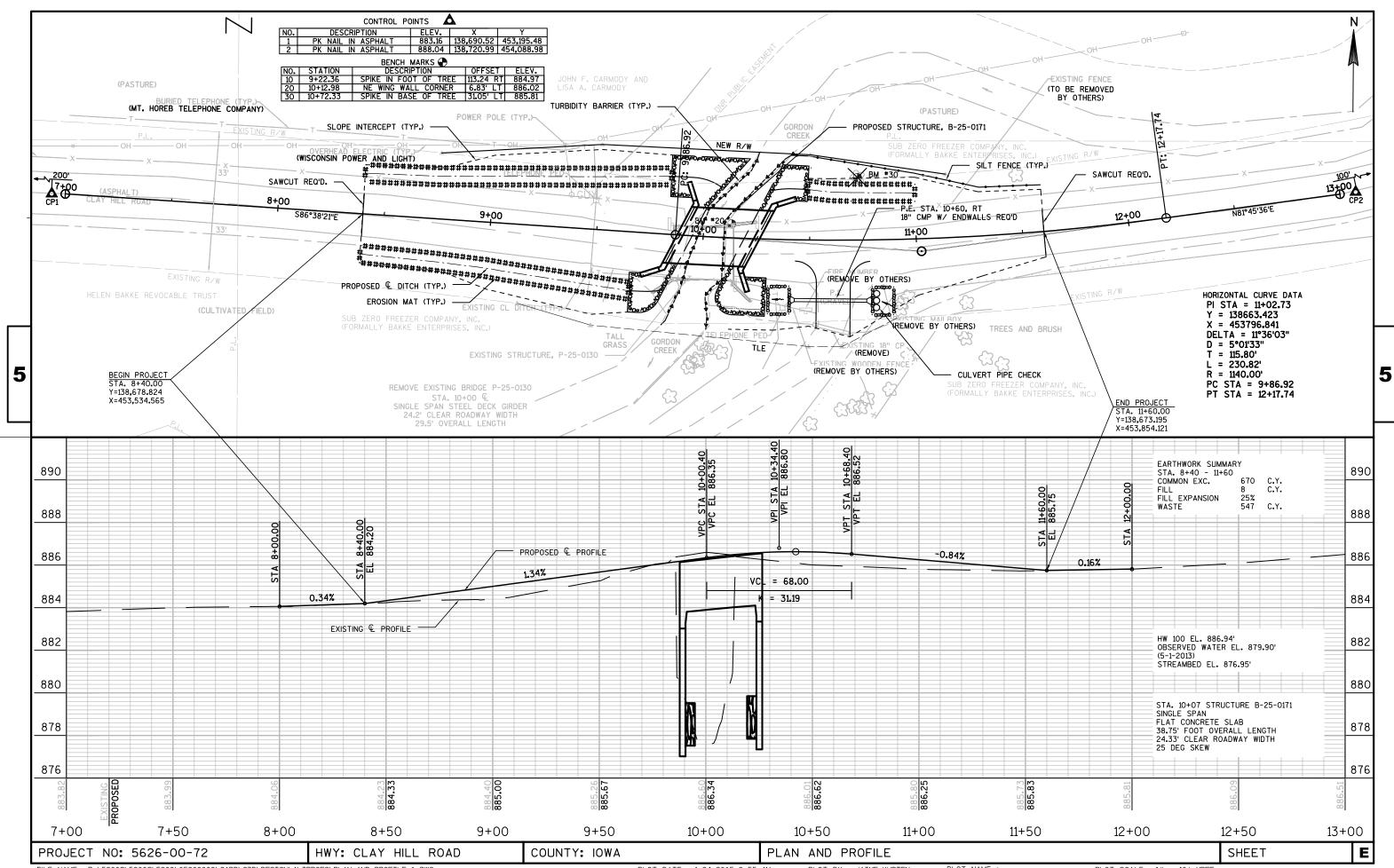
ORIGINAL PLAT PREPARED BY

2901 International Lane, Suite 300 Madison, WI 53704-3133

HIGGS

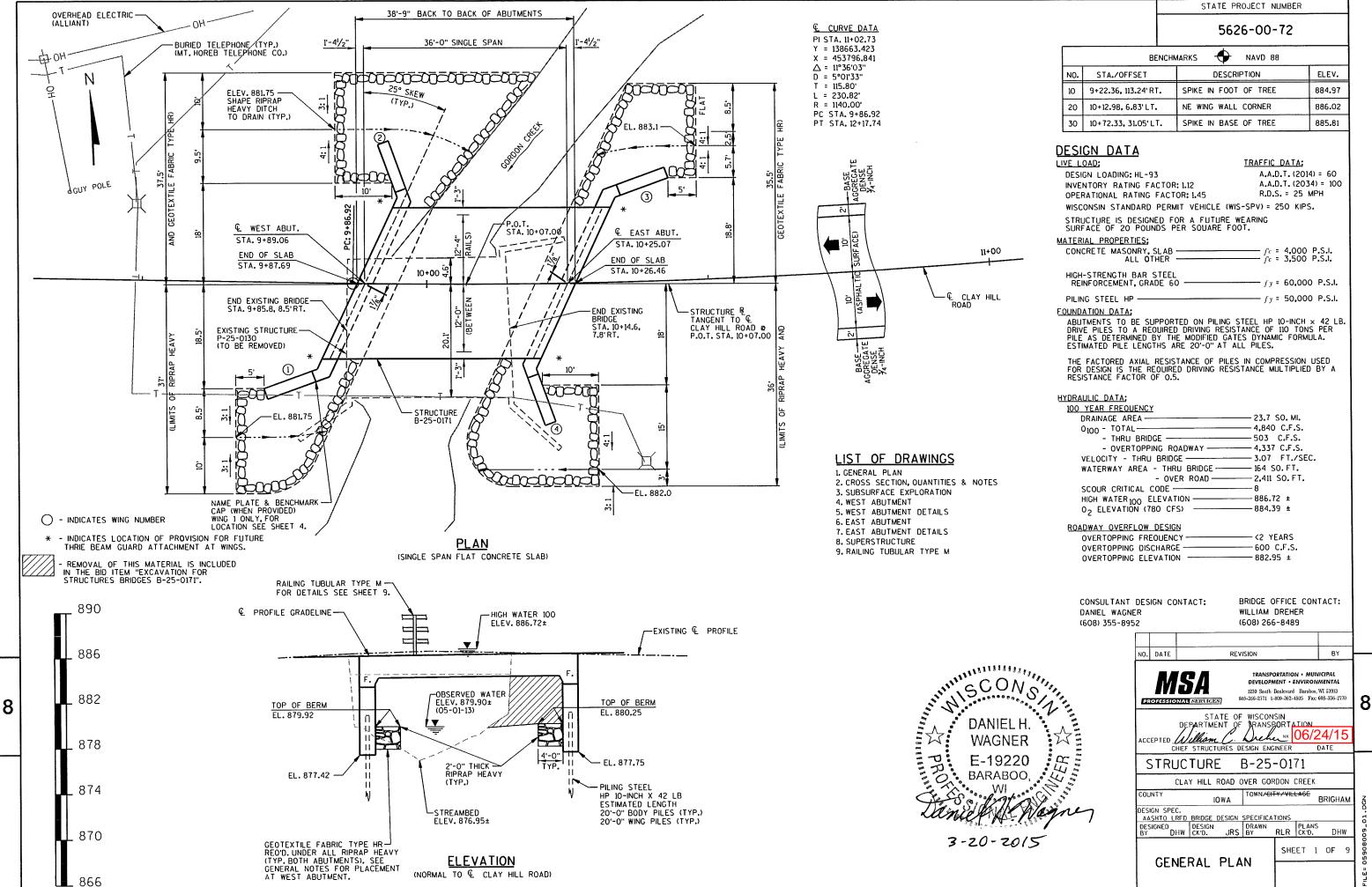
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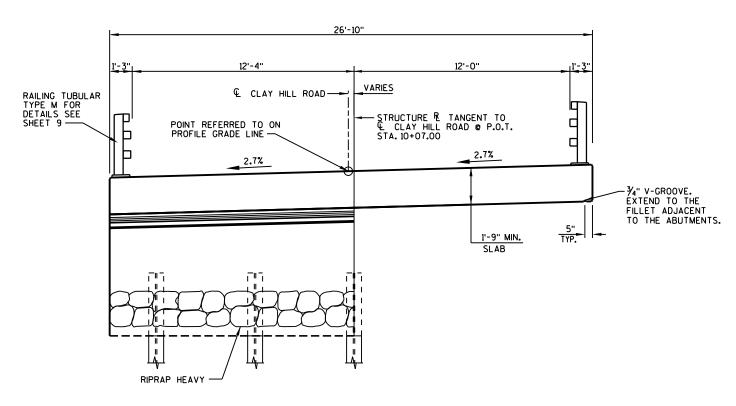




Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
12A03-10	NAME PLATE (STRUCTURES)
15A01-11	MARKER POST FOR RIGHT-OF-WAY
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-07	SIGNING & MARKING FOR TWO LANE BRIDGES





AT ABUTMENTS

IN SPAN

CROSS SECTION THRU BRIDGE

(LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	WEST ABUT.	EAST ABUT.	SUPER	TOTAL
203.0600.S.01	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+00	LS	-	-	-	1
206.1000.01	EXCAVATION FOR STRUCTURES BRIDGES B-25-0171	LS	-	-	-	1
210.0100	BACKFILL STRUCTURE	CY	130	130	-	260
502.0100	CONCRETE MASONRY BRIDGES	CY	34	34	72	140
502.3200	PROTECTIVE SURFACE TREATMENT	SY	20	20	140	180
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	2200	2210	-	4410
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	1620	1630	12240	15490
513.4060.01	RAILING TUBULAR TYPE M B-25-0171	LS	-	-	-	1
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6	6	-	12
550.1100	PILING STEEL HP 10-INCH x 42 LB	LF	140	140	-	280
606.0300	RIPRAP HEAVY	CY	85	65	-	150
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	85	85	-	170
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	175	145	-	320
	NON-BID ITEMS					
	PREFORMED FILLER	SIZE	-	-	-	1/2", 3/4"

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

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE FABRIC TYPE HR TO THE LIMITS SHOWN ON SHEET 1 AND ON THE ABUTMENT SHEETS OR AS DIRECTED BY THE ENGINEER. SUPPORT RIPRAP HEAVY BERM AT VOID AREA NEAR CENTER OF WEST ABUTMENT WITH ADDITIONAL RIPRAP HEAVY. 5 CY ADDED TO DETAILED QUANTITY.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES" FOR THE ABUTMENTS.

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

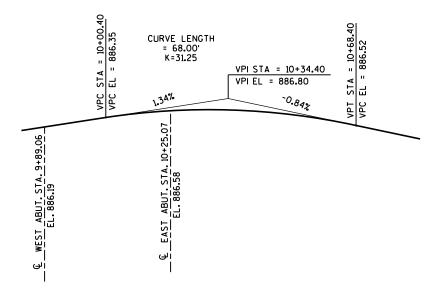
THIS STRUCTURE WILL REPLACE EXISTING BRIDGE, P-25-0130, A 29.5 FT. LONG SINGLE SPAN STEEL DECK GIRDER BRIDGE ON FULL RETAINING CONCRETE ABUTMENTS.

AT THE ABUTMENTS ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE. THE BACKFILL STRUCTURE ESTIMATED QUANTITIES ASSUMED A $1\frac{1}{2}$: 1 EXCAVATION SLOPE AT THE ABUTMENTS.

DO NOT PLACE FILL ABOVE 3'-O" FROM THE BOTTOM OF ABUTMENT UNTIL THE SUPERSTRUCTURE IS IN PLACE.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP AND EDGES OF SLAB, TO THE OUTSIDE 1'-O" OF THE UNDERSIDE OF SLAB, TO THE TOPS OF WINGS AND TO THE EXPOSED FRONT FACES OF WINGS.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD 88 BENCHMARK LOCATED APPROXIMATELY 1.0 MILE NORTHWEST OF THE EXISTING BRIDGE SITE. THE STATION IS A BRONZE WISDOT GEODETIC SURVEY CONTROL STATION, DALEYVILLE, ELEVATION 1064.80 .



PROFILE GRADE LINE - CLAY HILL ROAD

NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-25-0171

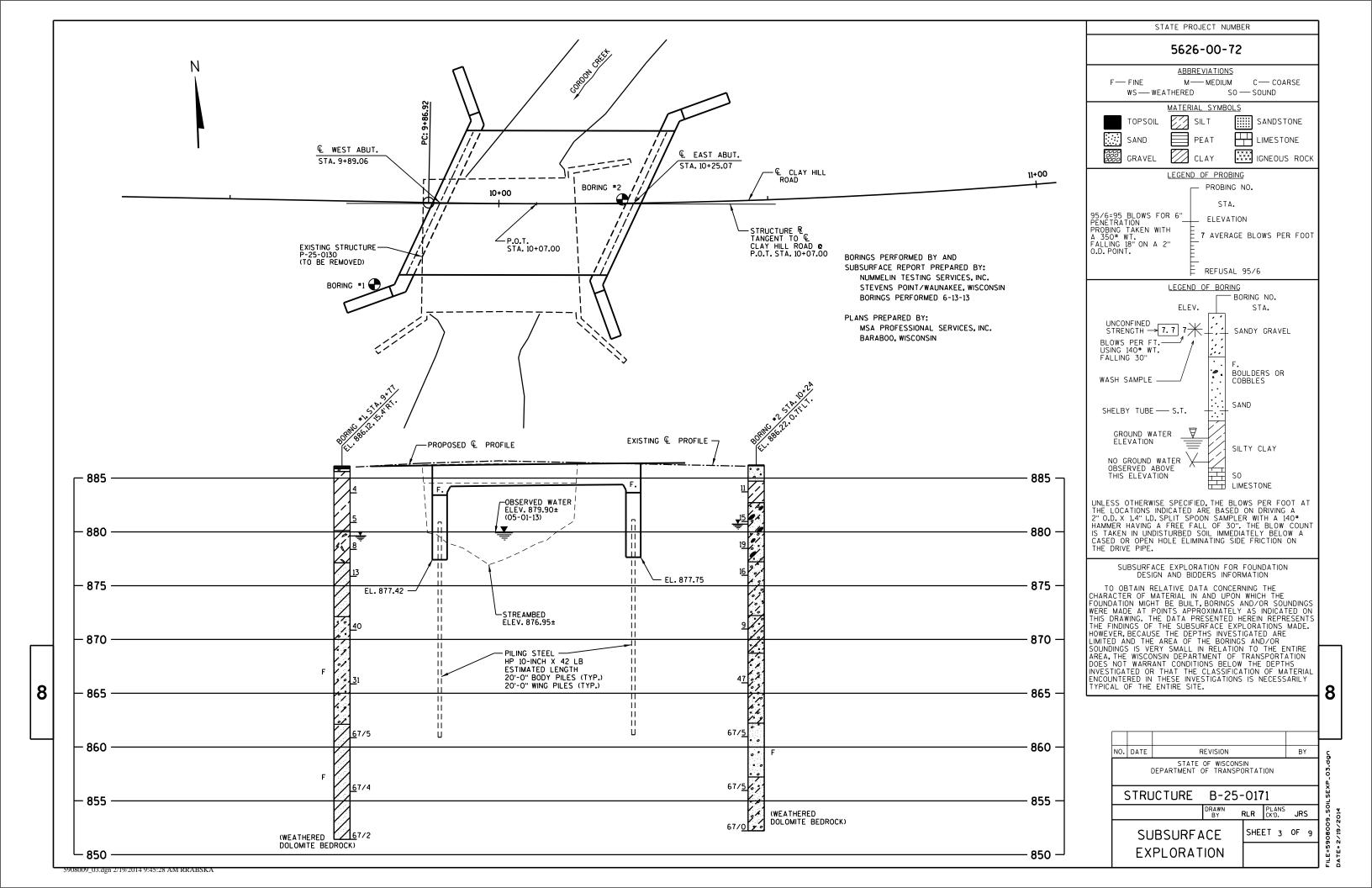
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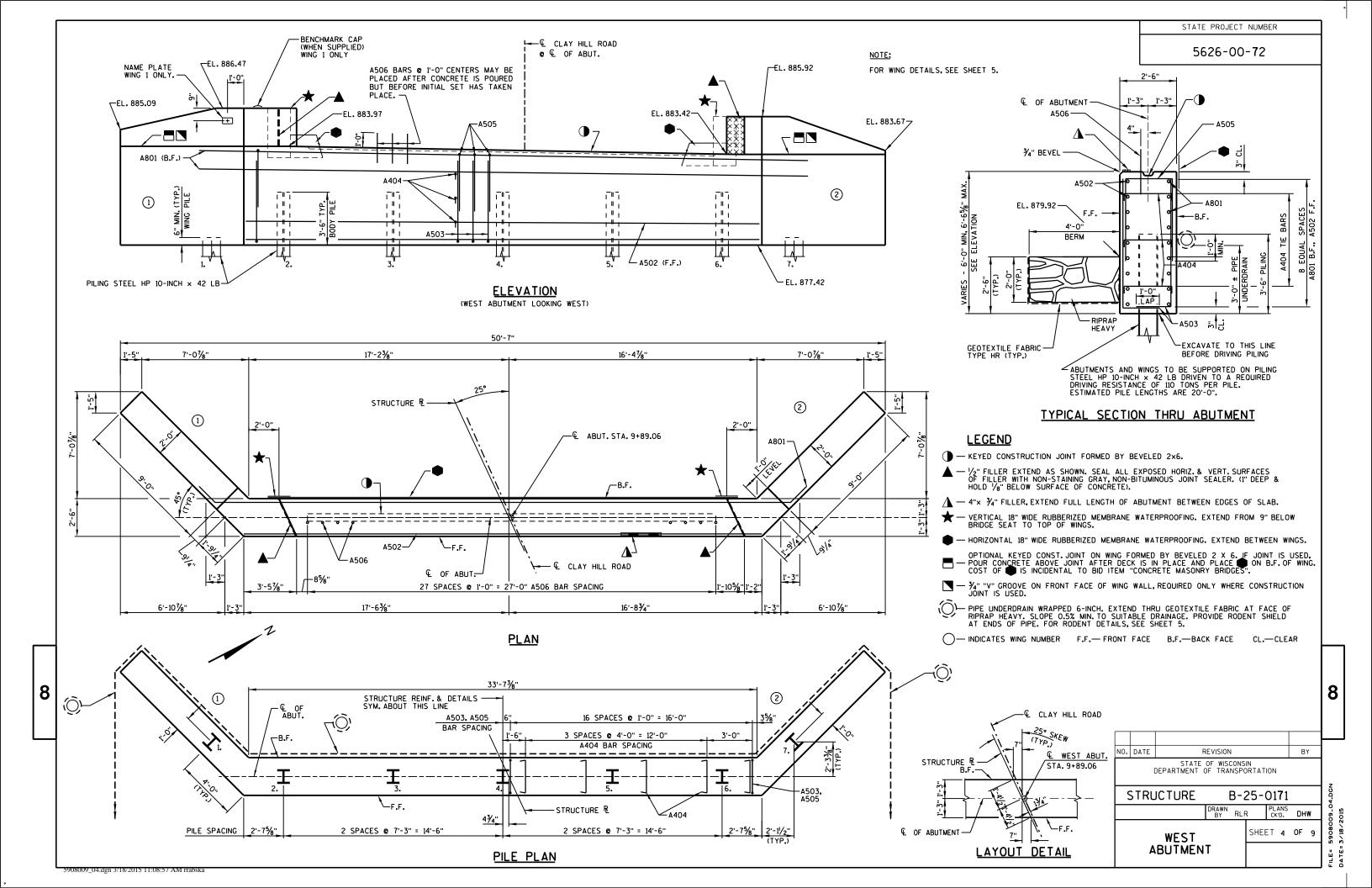
CROSS SECTION, OUANTITIES

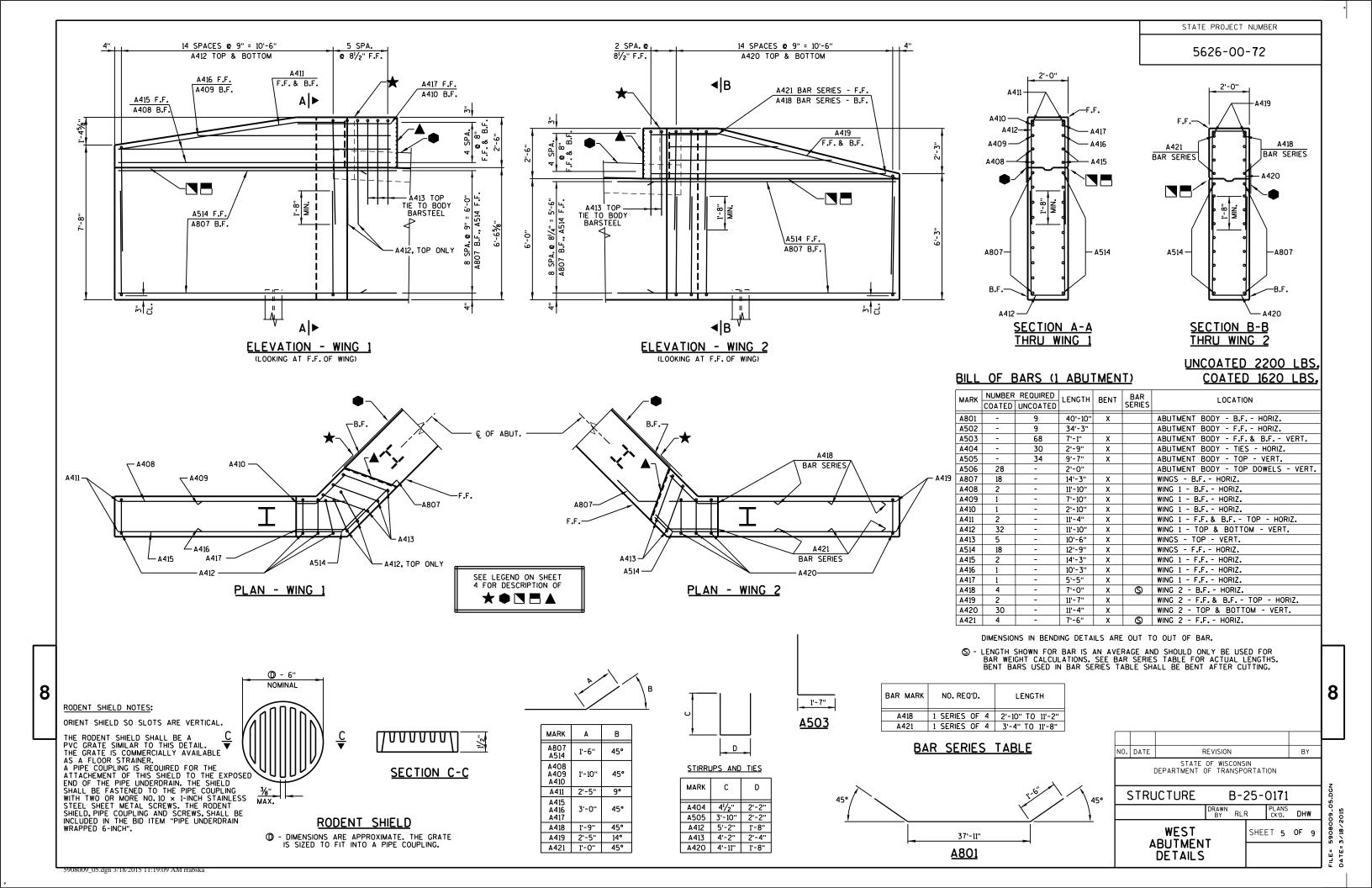
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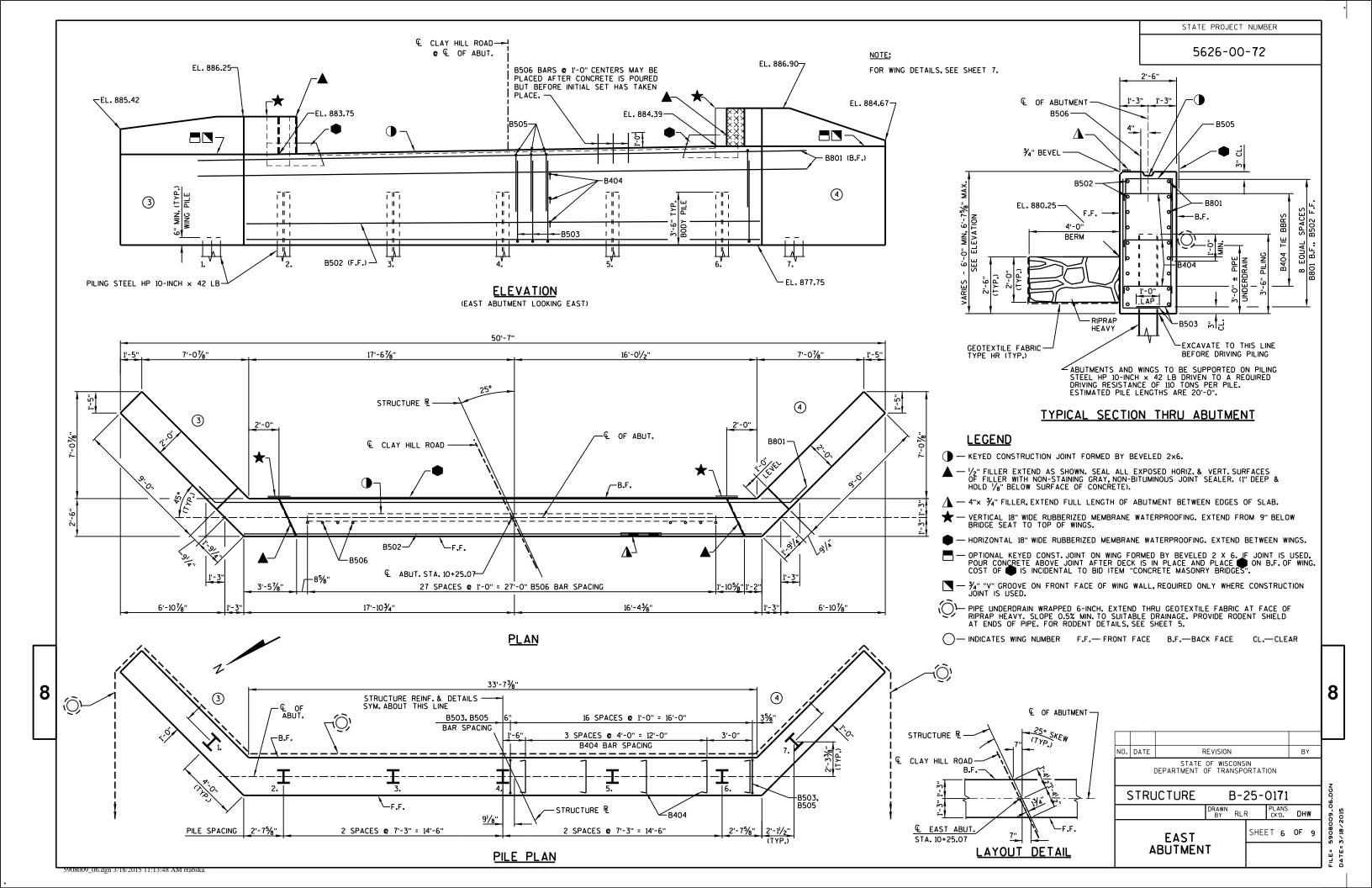
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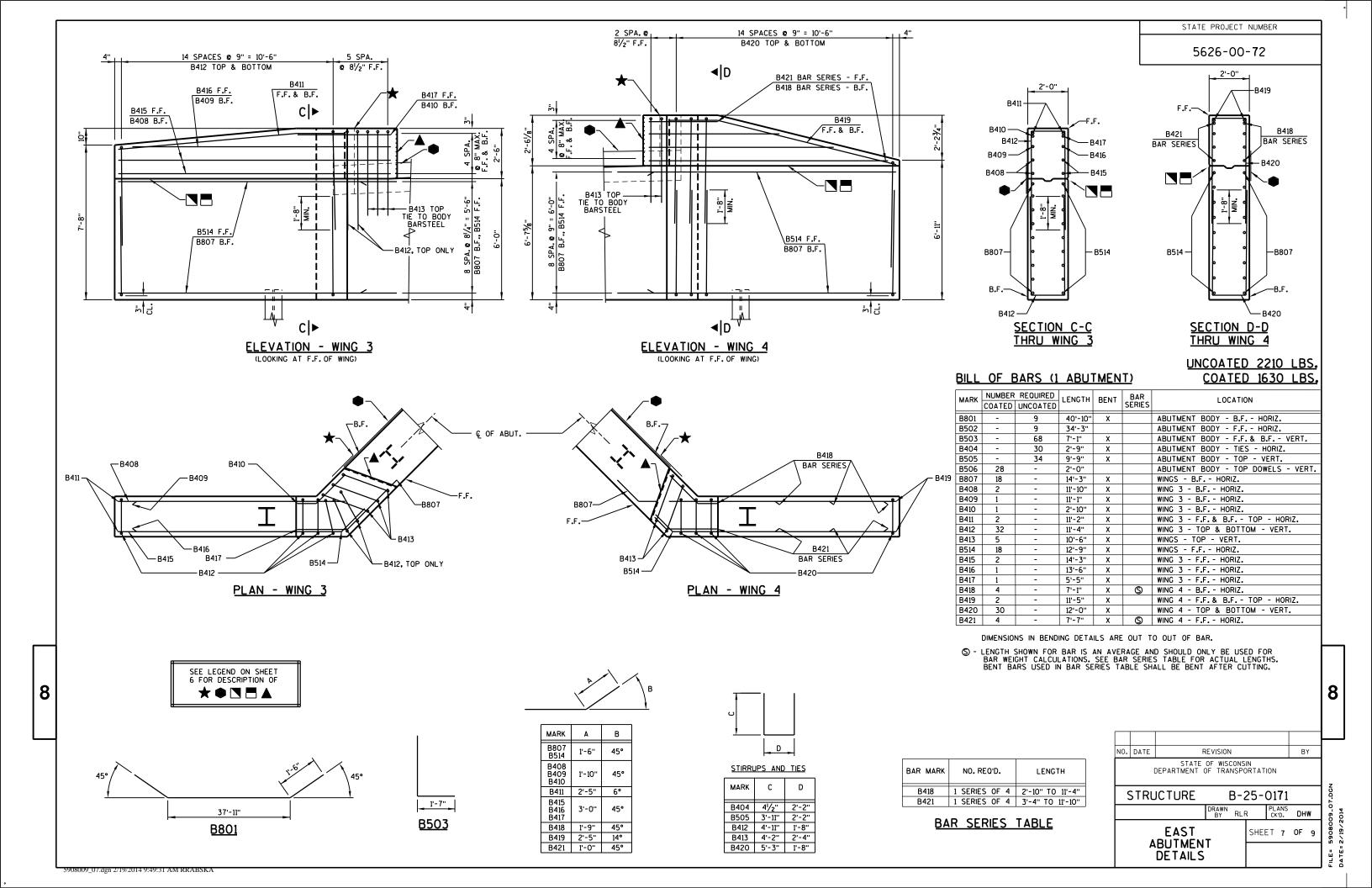
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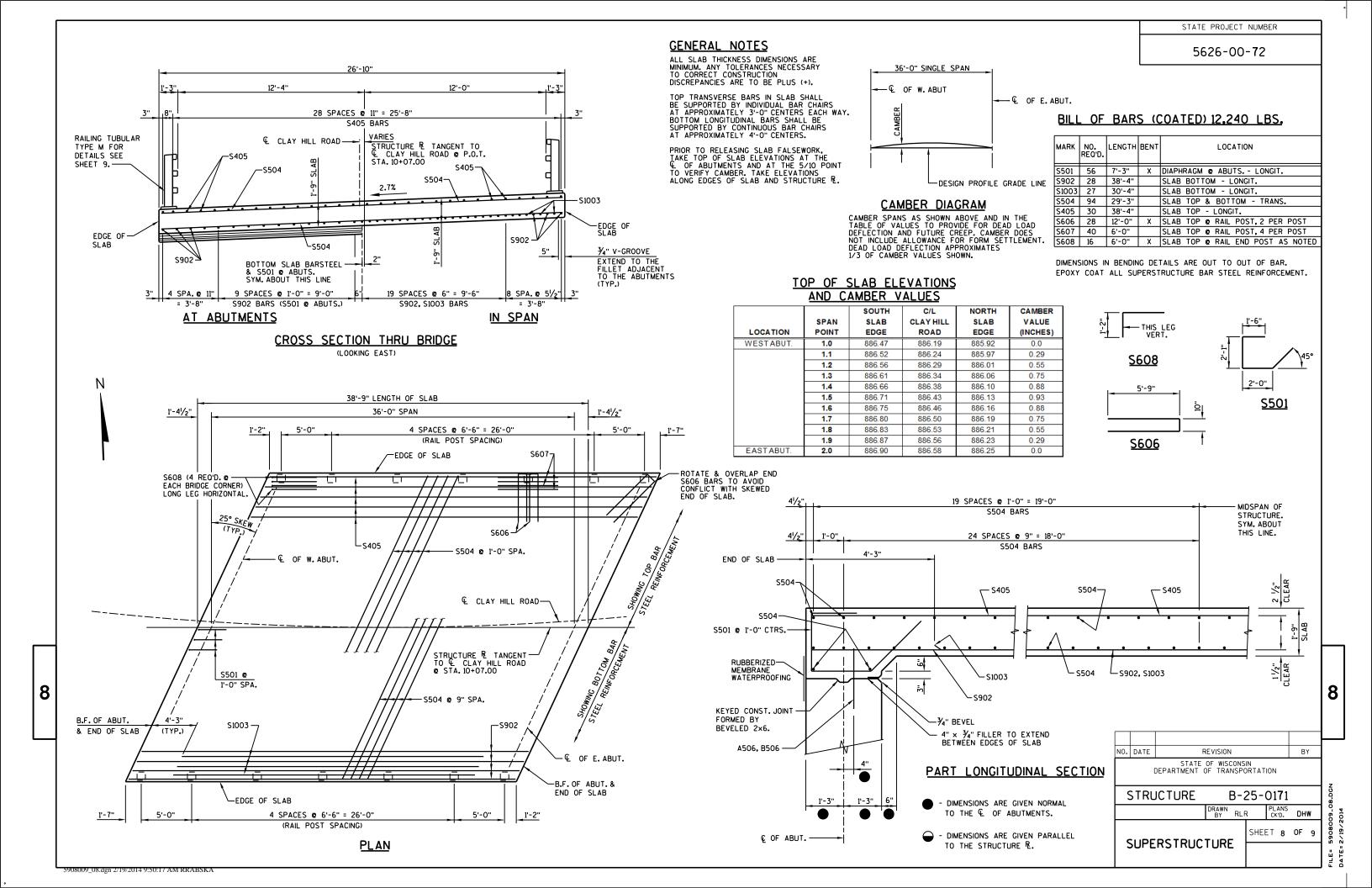


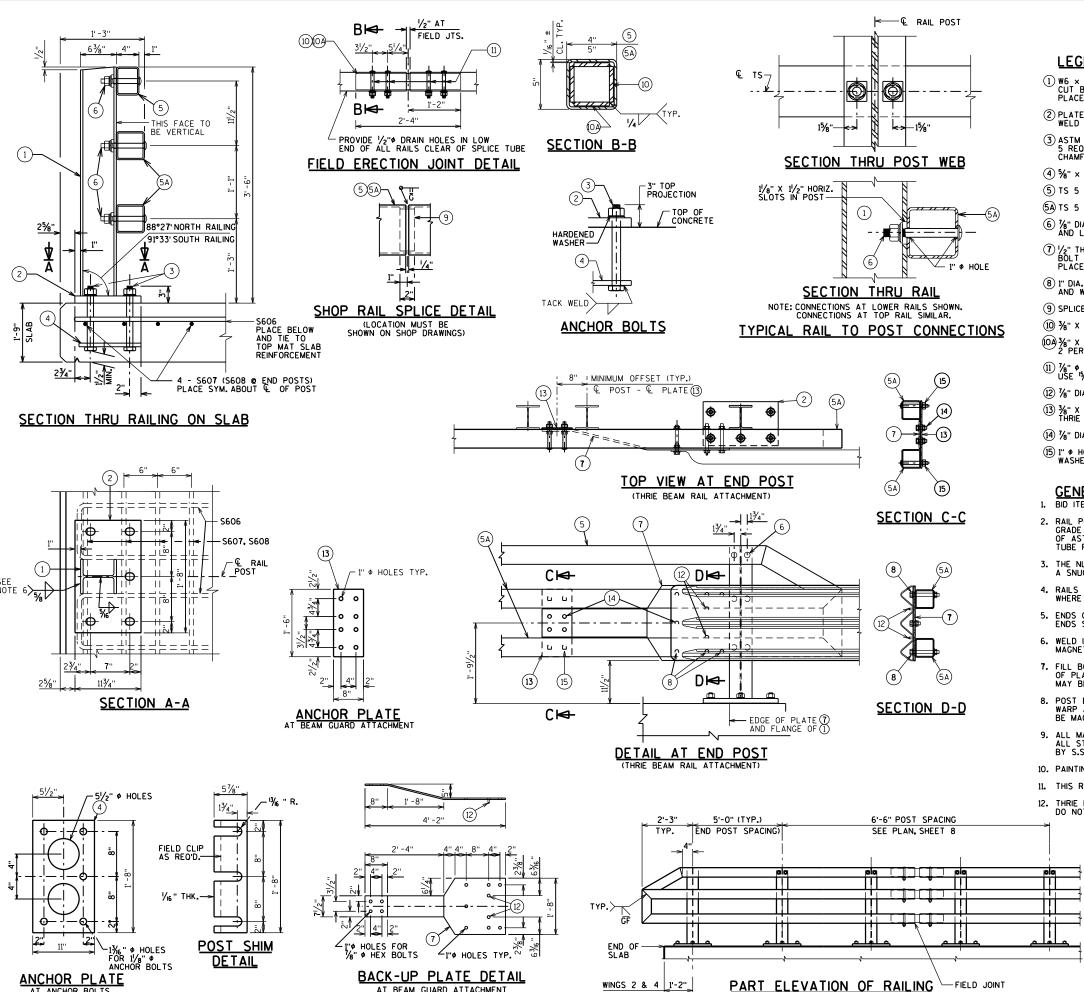












WINGS 1 & 3 1'-7"

AT BEAM GUARD ATTACHMENT

STATE PROJECT NUMBER

5626-00-72

- ① 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 $1!/4" \times 11^3/4" \times 1^{-8}"$ WITH $1^{1}/_{6}" \times 1^{5}/_{6}"$ 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 RED'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-3" LONG.
- 4 %" x 11" x 1'-8" ANCHOR PLATE (GALVANIZED) WITH 1%" DIA. HOLES FOR ANCHOR BOLTS NO. 3
- (5) TS 5 × 4 × 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.
- 5A TS 5 × 5 × 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.
- 6 % " DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, % " X 1%" X 1%" WASHER, AND LOCK WASHER (2 REO'D. AT EACH RAIL TO POST LOCATION.)
- (7) 1/2" THK. BACK-UP PLATE WITH 2 1/4" X 1/2" 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) 1" 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 1/4" PLATE. PROVIDE "SLIDING FIT".
- 10 3/8" X 35/8" X 2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.
- (O) ¾" x 2½" x 2'-4" PLATE USED IN NO.5, ¾" x 3½" x 2'-4" PLATE USED IN NO.5A. 2 PER RAIL.
- (1) % * A 325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE % " X 1/4" LONGIT. SLOTTED HOLES AT FIELD JOINTS IN PLATE NO. 10A.
- 12 1/8" DIA. X 11/2" LONG THREADED SHOP WELDED STUDS (2 REO'D).
- $(\ensuremath{\overline{3}})$ %" x 8" x 1'-6" anchor plate. Bolt to rail as shown in detail. Reo'd at thrie beam guard rail attachments only. Place sym. about tubes no.5a.
- 4 %" DIA. X 2" LONG A325 HEX BOLT WITH NUT AND WASHER (5 REQUIRED).
- (5) I" ϕ Holes in Tubes no.5a for %" Dia. a325 round head bolt with nut, washer, and lock washer (4 reo'd.). 4 holes in Tubes.

GENERAL NOTES

- BID ITEM SHALL BE "RAILING TUBULAR TYPE M B-25-0171" WHICH INCLUDES ALL ITEMS SHOWN.
- 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.
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL $^{\prime}\!/_{8}$ TURN.
- 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.
- ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
- 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. FOR ALIGNMENT.
- 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.
- 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. PAINTING IS NOT REQUIRED.
- 11. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).
- 12. THRIE BEAM RAIL ATTACHMENT IS INCLUDED FOR FUTURE USE. ENSURE PROPER FIT BUT DO NOT MOUNT TO RAILING.



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

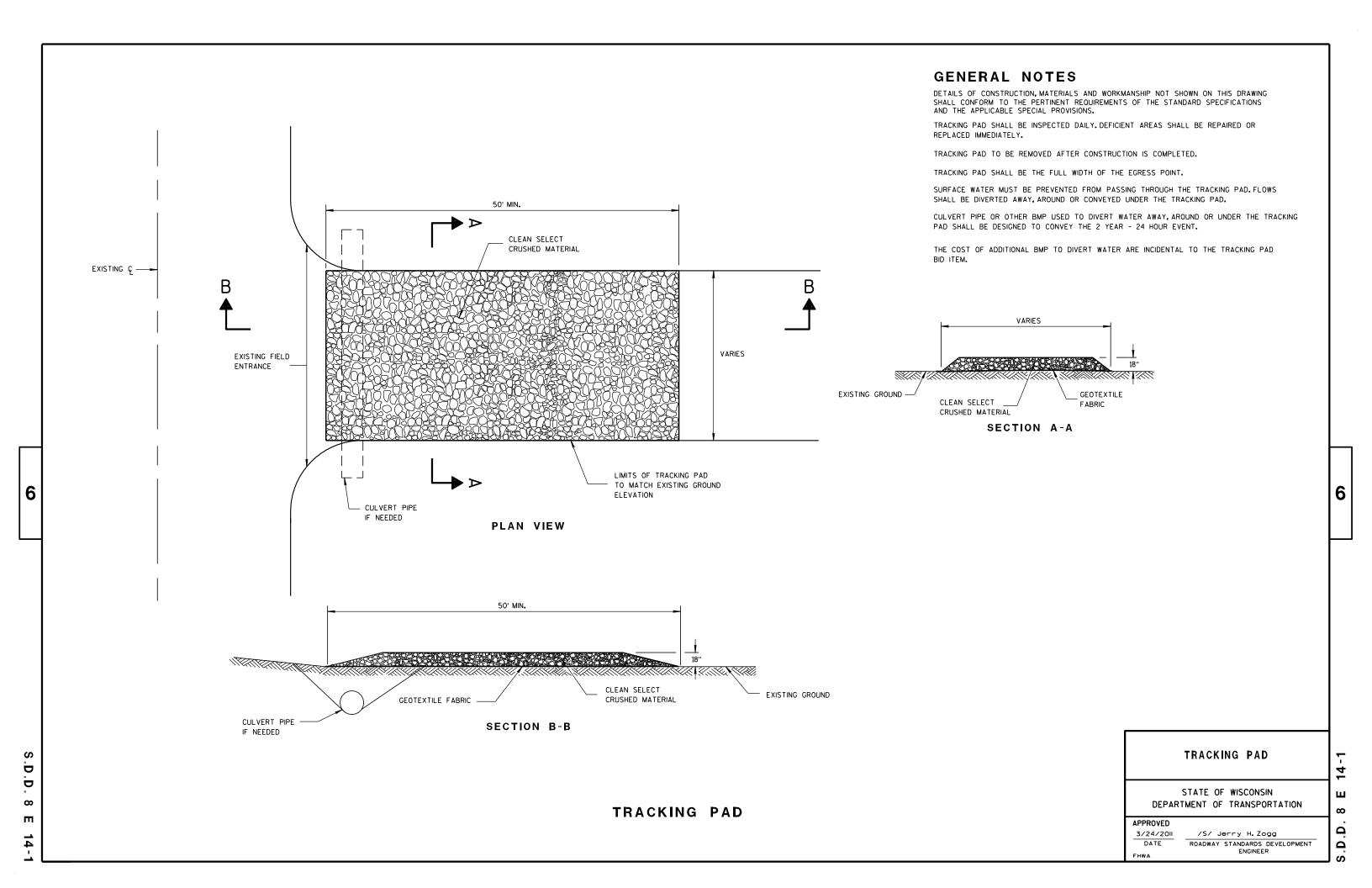
TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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METAL APRON ENDWALLS											
PIPE	MIN. 1	THICK.	DIMENSIONS (Inches)				APPROX.				
DIA.	(Incl		A	В	Н	L	Γį	L ₂	W	SLOPE	BODY
(IN.)	STEEL	ALUM.	(±1")	(MAX.)	(±1")	(±1 ½")	①	0	(±2")	320.2	
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	2½to 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	21/2+o 1	1Pc.
21	.064	.060	9	12	6	36	18	295/8	42	21/2+o 1	1Pc.
24	.064	.075	10	13	6	41	18	371/4	48	21/2+o 1	1Pc.
30	.079	.075	12	16	8	51	18	521/4	60	21/2+0 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	21/2+o 1	2 Pc.
42	.109	.105	16	22	11	69	24	75%	84	21/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ +o 1	3 Pc.
54	.109	.105	18	30	12	84	30	851/2	102	2 ¹ / ₄ †o 1	3 Pc.
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	11/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2+0 1	3 Pc.
96	.109×	.105×	18	35	12	87	_	_	150	1/2+0 1	3 Pc.

	RE	NFORC	ED C	ONCRET	E APRO	N E	NDWAL	.LS
PIPE			DIM	ENSIONS	(Inches)			APPROX.
DIA.	T	A	В	С	D	Ε	G	SLOPE
12	2	4	24	48 1/8	721/8	24	2	3 to 1
15	21/4	6	27	46	73	30	21/4	3 to 1
18	21/2	9	27	46	73	36	21/2	3 to 1
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1
24	3	91/2	431/2	30	731/2	48	3	3 to 1
27	31/4	101/2	491/2	24	731/2	54	31/4	3 to 1
30	$3\frac{1}{2}$	12	54	193/4	731/2	60	31/2	3 to 1
36	4	15	63	34¾	97¾	72	4	3 to 1
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	51/2		65	**************************************	8 ¹ / ₄ - 100	90	51/2	2% to 1
60	6	* ** 30-35	60	39	99	96	5	2 to 1
66	61/2	* ** 24-30	* * * 72-78	* * * 21-27	99	102	51/2	2 to 1
72	7	* ** 24-36	78	21	99	108	6	2 to 1
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1
84	8	36	901/2	21	1111/2	120	61/2	1½+o 1
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1

THREADED %6" DIA. ROD CONNECTOR AROUND CULVERT & THROUGH TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT TYPE 1 FOR 12" THRU 24" CORR. PIPE







NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

CORRUGATED PIPE. FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

DIMPLED BAND MAY BE USED WITH HELICALLY

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP

* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



**MAXIMUM





CONCRETE ENDWALLS

CONNECTION DETAILS



SECTION A-A

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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

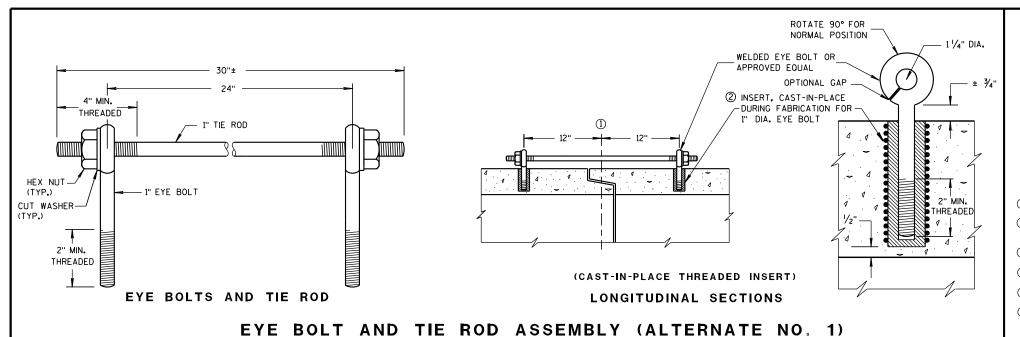
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER



GENERAL NOTES

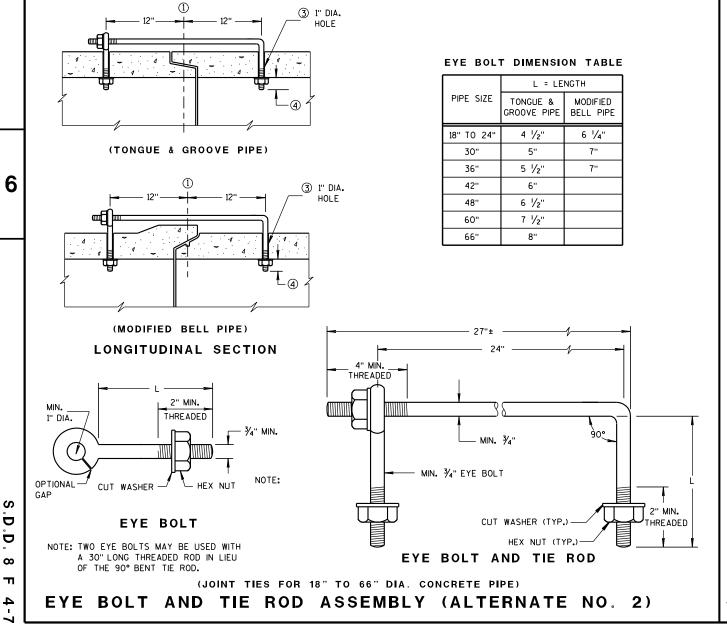
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES, ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

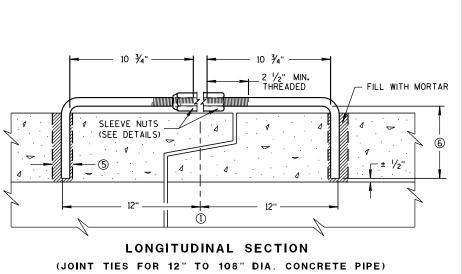
DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

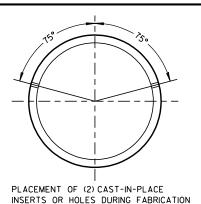
- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ${\mathfrak L}$ OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- (5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN $rac{1}{2}$ INCH OF THE INNER SURFACE OF THE PIPE.



ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

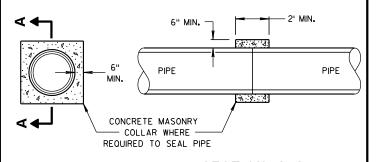


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

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



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

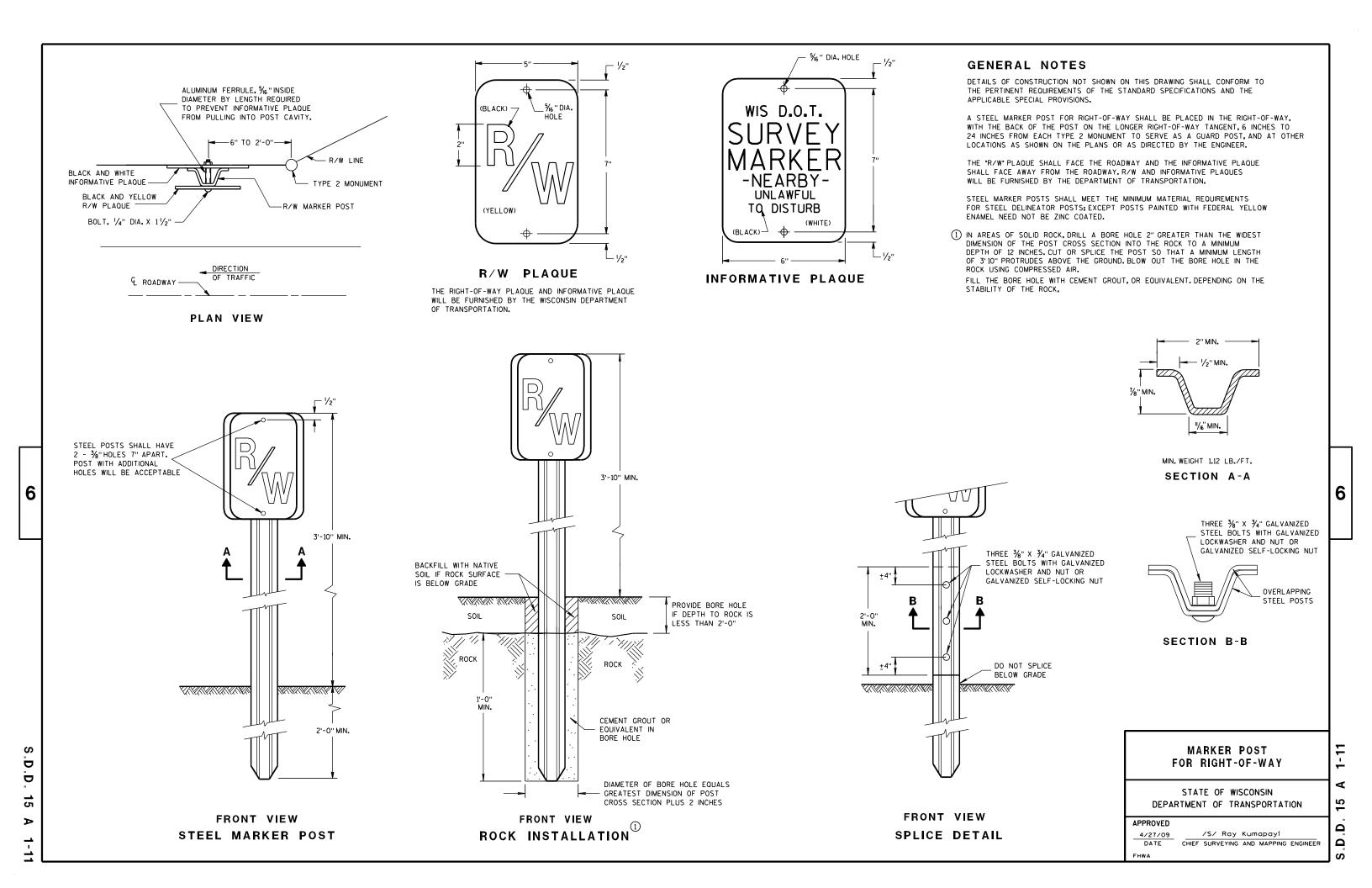
|--|

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.

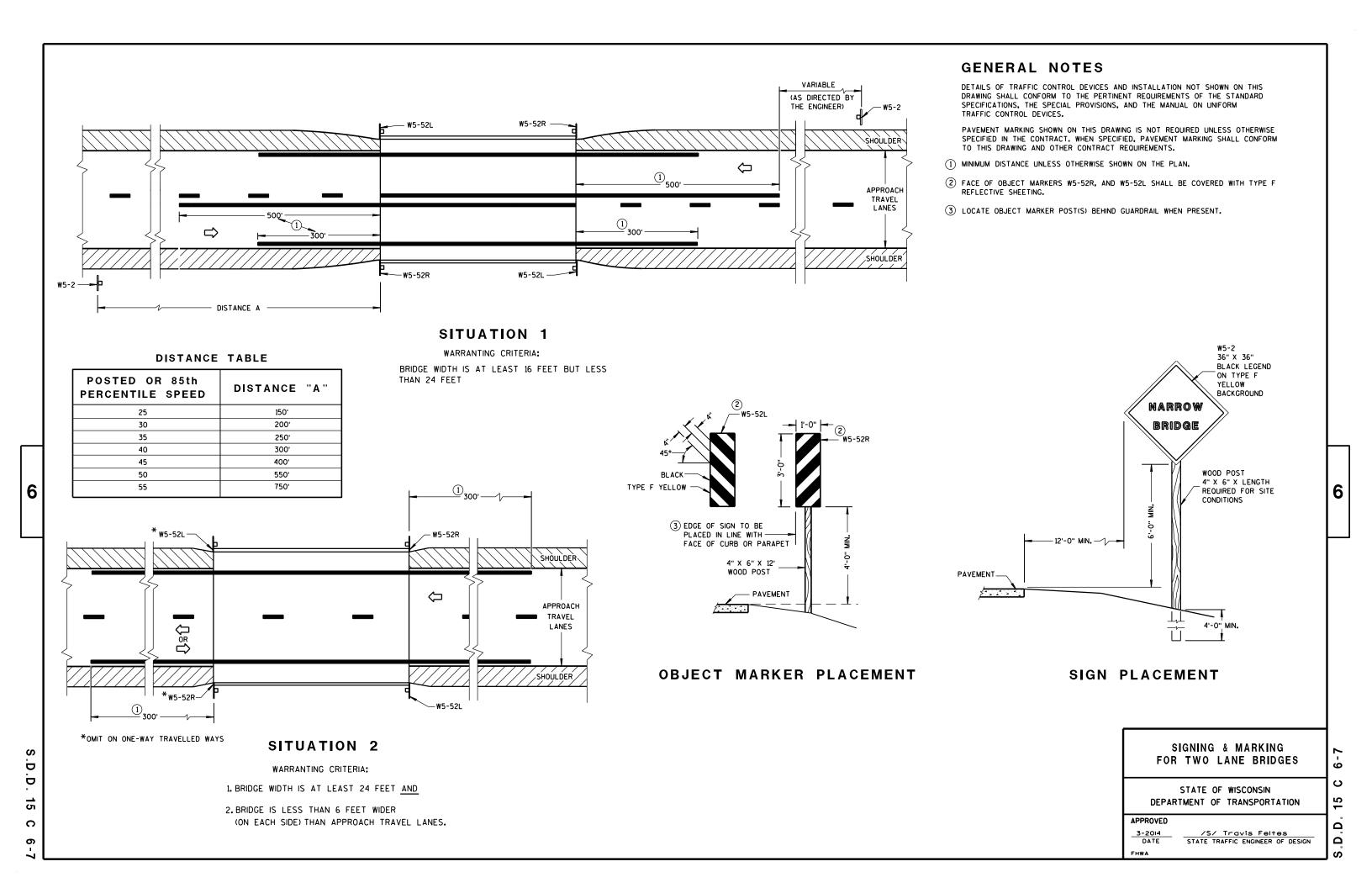
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

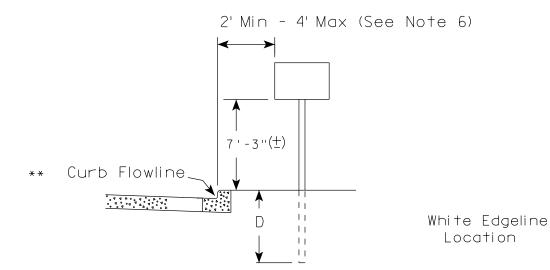
/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

2

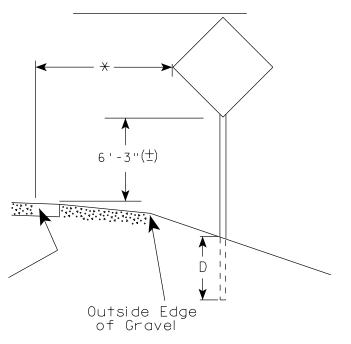
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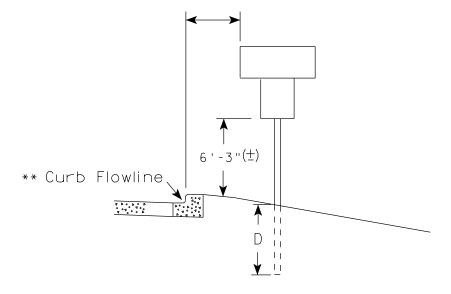
urban area



RURAL AREA (See Note 2)



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



White Edgeline
Location

Outside Edge
of Gravel

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated.

That height is typically measured where

there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

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.

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" (\pm) .
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (\pm) tolerance for mounting height is 3 inches.
- 8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (\pm) or as directed by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), 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

Matther & Rauh
For State Traffic Engineer

DATE 9/30/13

SHEET NO:

COUNTY:

JN I Y:

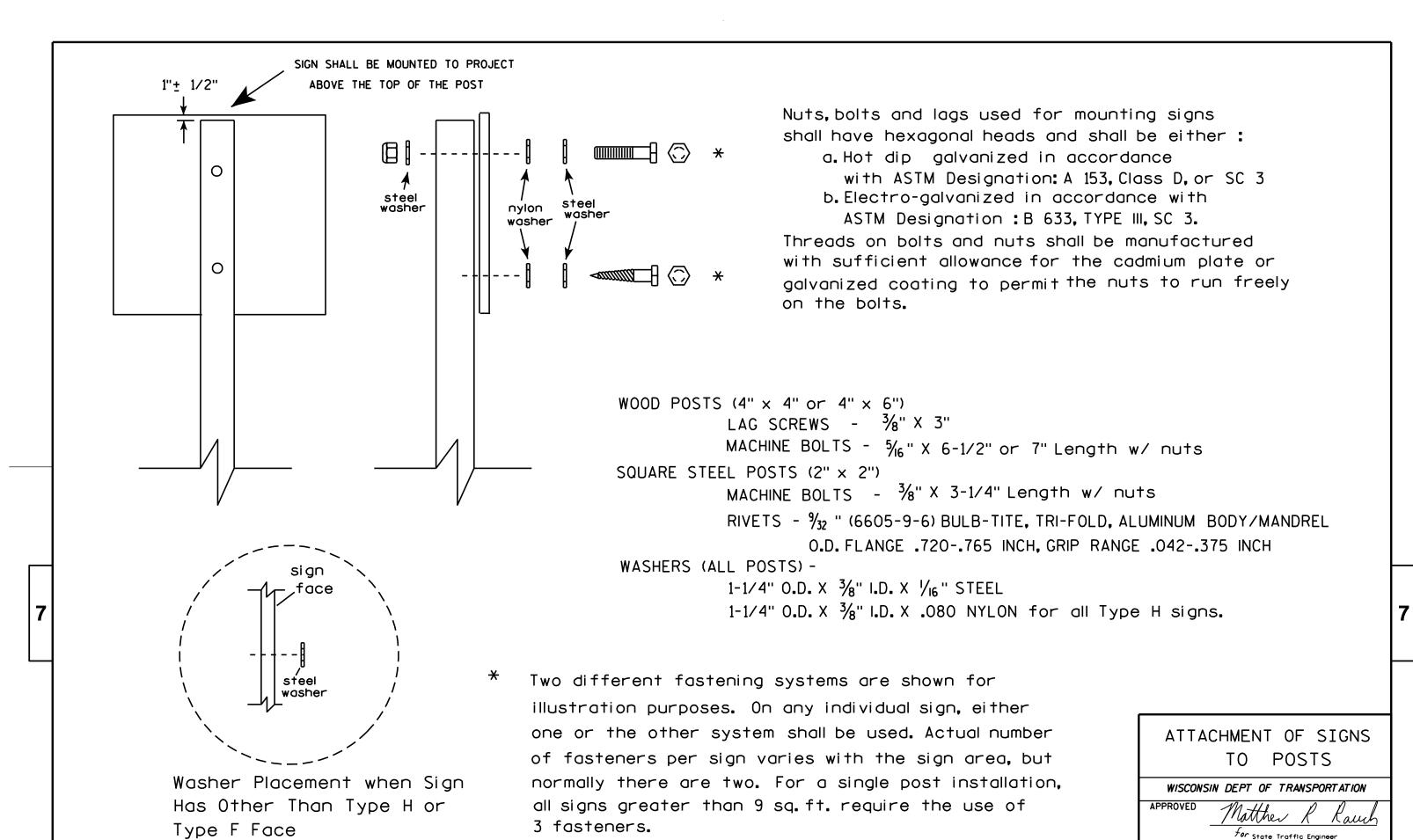
PLOT DATE: 30-SEP-2013 13:25

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42

PROJECT NO:

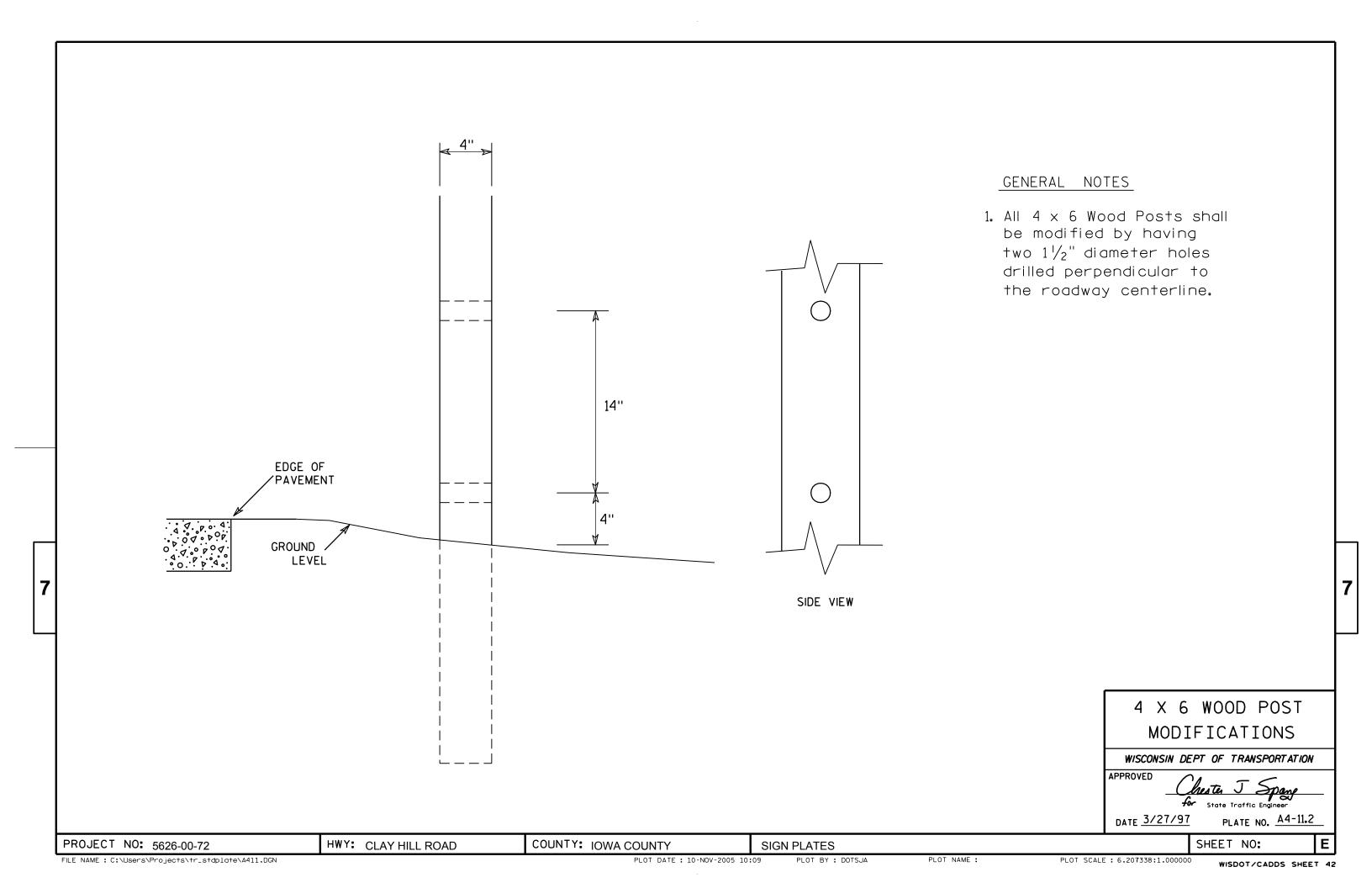


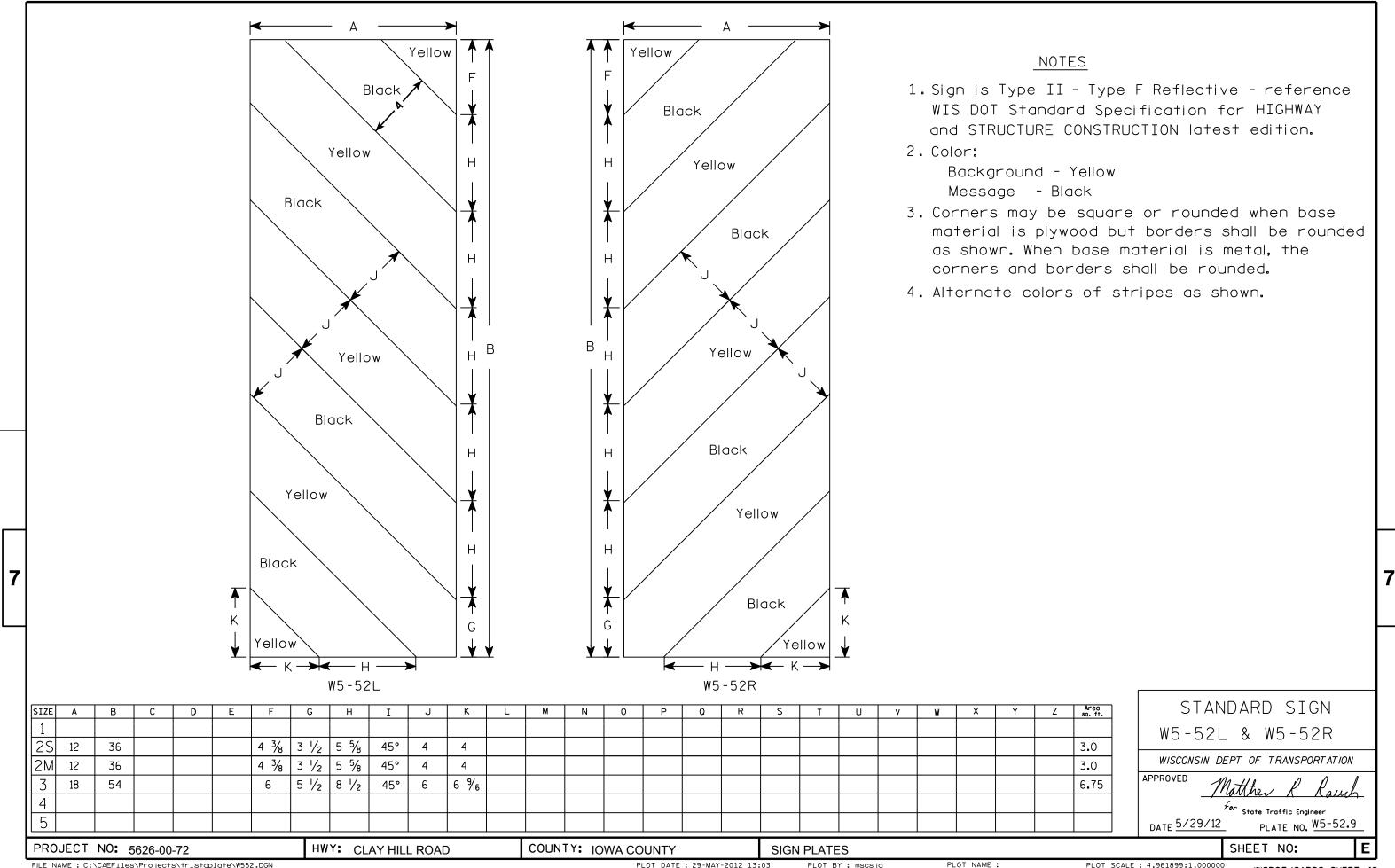
PROJECT NO: 5626-00-72 CLAY HILL ROAD IOWA COUNTY SIGN PLATES SHEET NO: **E**

PLOT DATE: 23-MAR-2010 10:15

PLATE NO. 44-8.7

DATE 3/23/10





EARTHWORK PROJECT I.D. 5626-00-72

		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (C)	Y)	
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	Note 3	Note 1		Note 8
8+40	-	31	0	0	0	0	0	0	0	0
9+00	60	64	0	0	106	0	0	106	0	106
9+50	50	90	0	0	142	0	0	248	0	248
9+87.69	37.69	90	0	0	125	0	0	373	0	248 373
B-25-0171										
					373	0	0			

- 1) CUT CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
- 2) SALVAGED/UNUSABLE PAVEMENT MATERIAL THIS DOES NOT SHOW UP IN CROSS SECTIONS
- 3) FILL DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
- 8) MASS ORDINATE IF MARSH OR EBS TO BE BACKFILLEDWITH GRANULAR: (CUT + EBS + MARSH EXC) (FILL (REDUCED MARSH IN FILL) (REDUCED EBS IN FILL) (EXPANDED ROCK)) * FILL FACTOR

EARTHWORK PROJECT I.D. 5626-00-72

		AREA (SF)			Incremental Vol	(CY) (Unadjusted)		Cumulative Vol (C		
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Cut 1.00 Note 1	Expanded Fill 1.25	Mass Ordinate
B-25-0171										
10+26.46		35	0	4	0	0	0	0	0	0
10+50	23.54	35	0	4	31	0	3	31	4	27
10+60	10	47	0	1	15	0	1	46	5	41
11+00	40	35	0	2	60	0	2	106	8	98
11+60	60	36	0	0	78	0	2	185	10	174

- 1) CUT CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
- 2) SALVAGED/UNUSABLE PAVEMENT MATERIAL THIS DOES NOT SHOW UP IN CROSS SECTIONS
- 3) FILL DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
- 8) MASS ORDINATE IF MARSH OR EBS TO BE BACKFILLEDWITH GRANULAR: (CUT + EBS + MARSH EXC) (FILL (REDUCED MARSH IN FILL) (REDUCED EBS IN FILL) (EXPANDED ROCK)) * FILL FACTOR

PROJECT NO: 5626-00-72 HWY: CLAY HILL ROAD COUNTY: IOWA EARTHWORK SHEET E

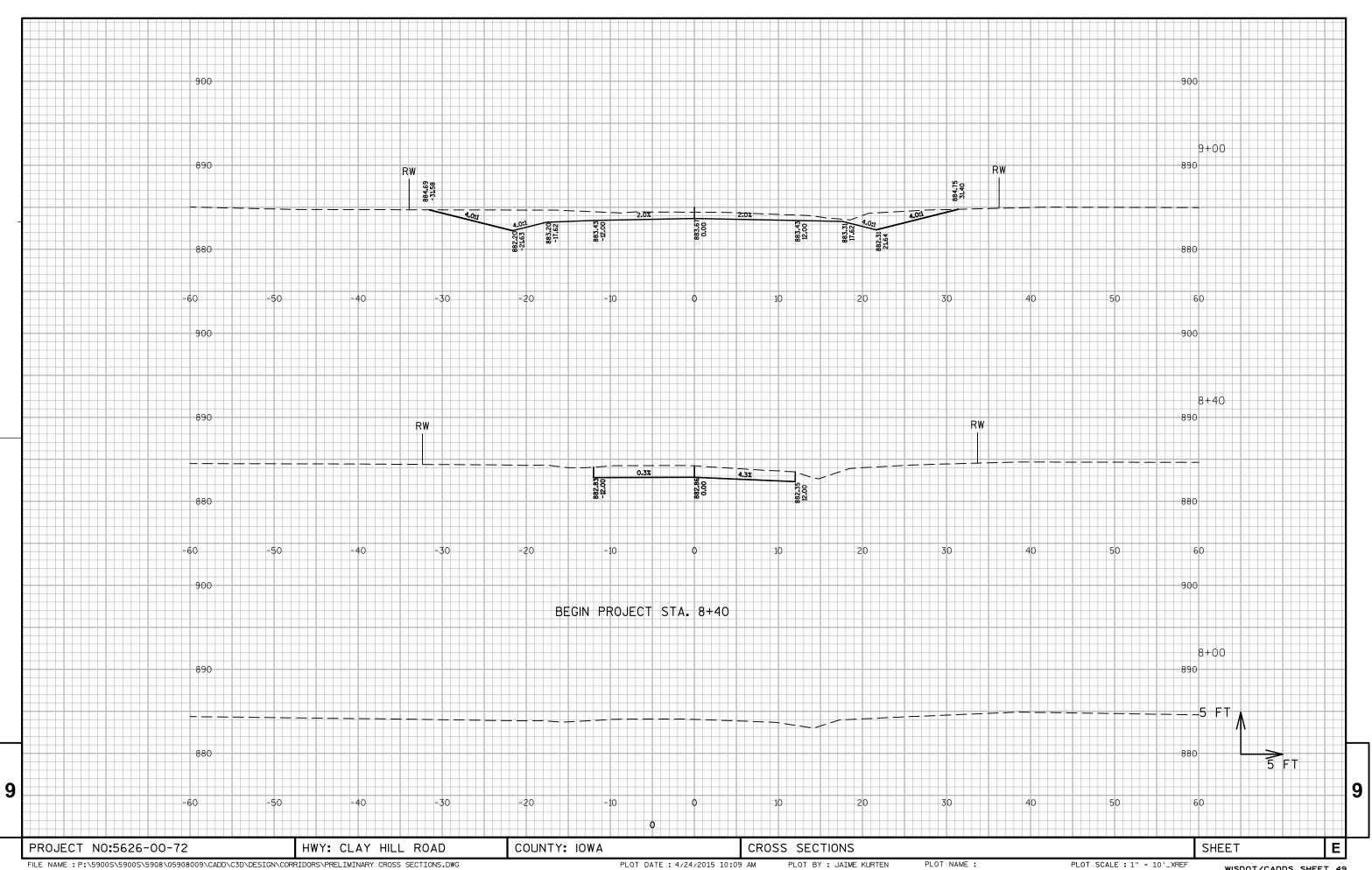
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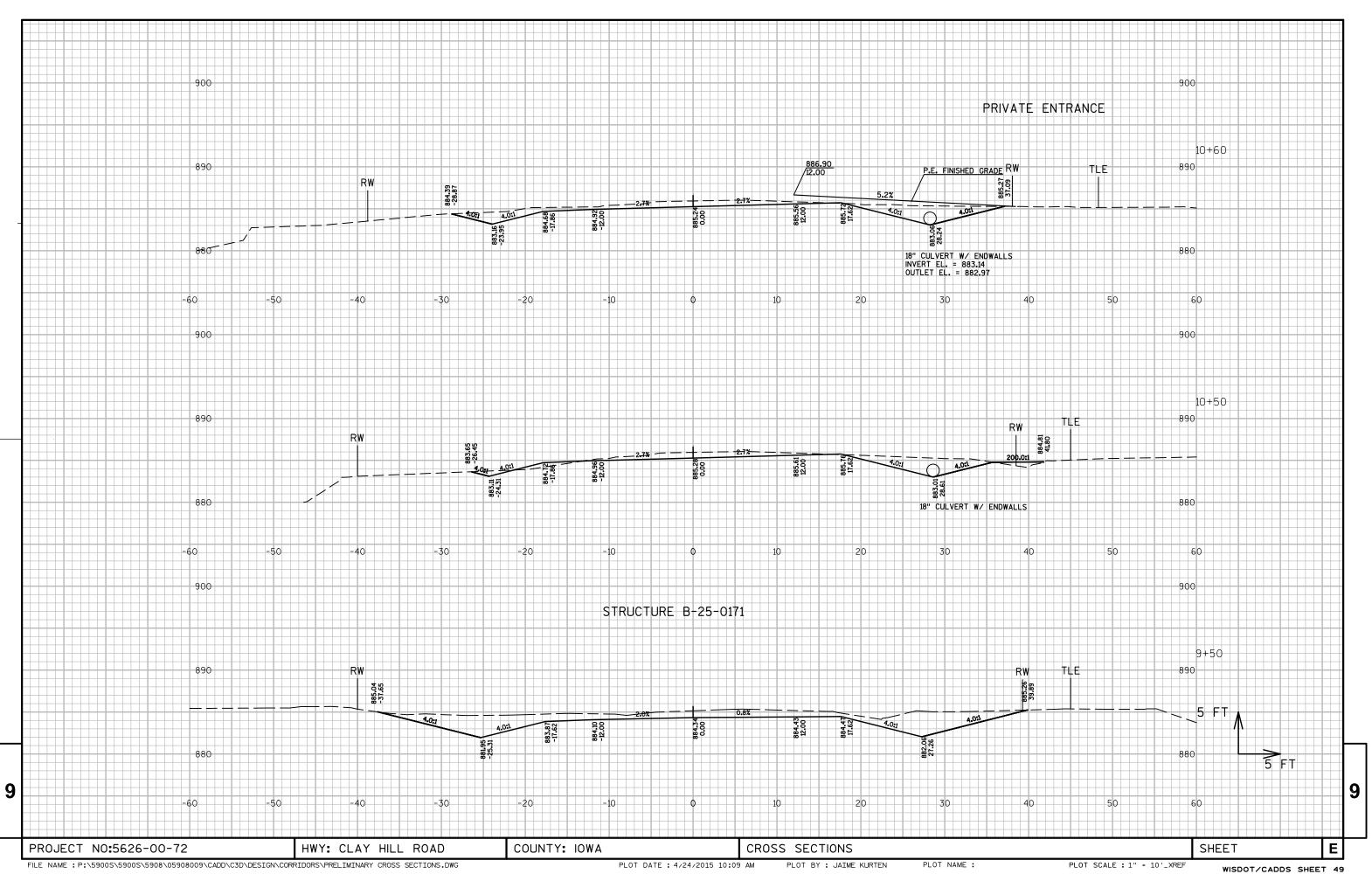
PLOT DATE: 11/13/2013

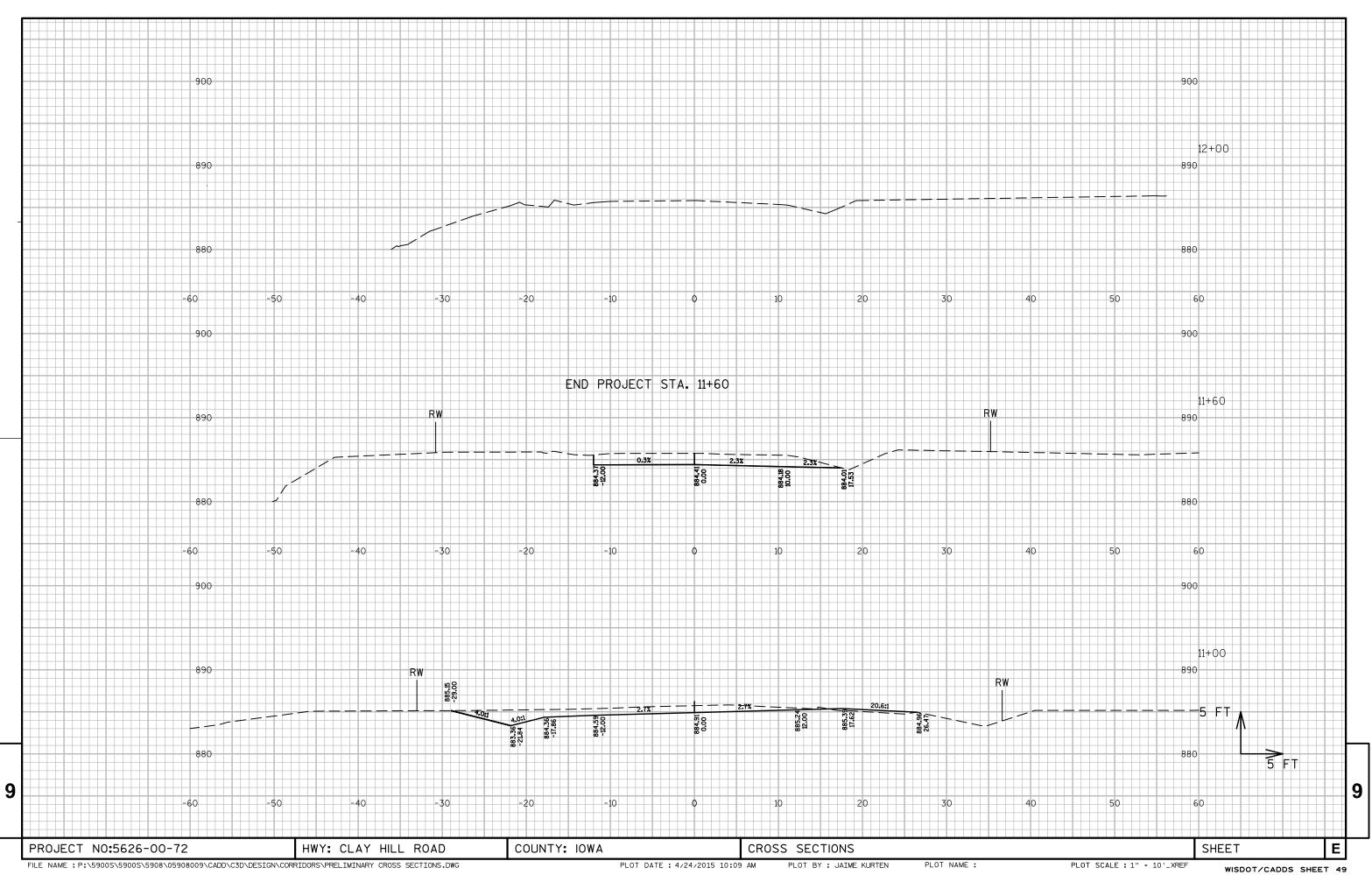
PLOT BY: Jdolens PLOT NAME:

PLOT SCALE: 1:200

WISDOT/CADDS SHEET 49







Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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