STATE OF WISCONSIN ORDER OF SHEETS Title Section No. 1 DEPARTMENT OF TRANSPORTATION Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities

PLAN OF PROPOSED IMPROVEMENT

PRINCETON - CTH

WHITE RIVER BRIDGE B-24-0041

CTH D **GREEN LAKE COUNTY**

END CONSTRUCTION STA 13+54.00

> END PROJECT STA 11+50.00

> STA 10+00.00

STA 8+50.00

STA 7+25.00

BEGIN CONSTRUCTION

Y = 305,669.022X = 526,013.872

DESIGN DESIGNATION

FSALS

Section No. 3

Section No. 7

Section No. 8

Section No. 9

Section No. 9

TOTAL SHEETS = 48

Miscellaneous Quantities

Standard Detail Drawings

Computer Farthwork Data

Plan and Profile (Includes Erosion Control Plan)

Right of Way Plat

Sign Plates

Structure Plans

Cross Sections

A.A.D.T. (2014) = 260 A.A.D.T. (2034) = 390 D.H.V. = 39 = 50-50 D.D. = 10% DESIGN SPEED = 35 MPF

= 73,000

CONVENTIONAL SYMBOLS

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

WETLAND AREA

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 CUI VERT PROPOSED CULVERT (Box or Pipe)

MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER STORM SEWER TELEPHONE WATER

PROFILE

GRADE LINE

ORIGINAL GROUND

CULVERT (Profile View)

UTILITY PEDESTAL POWER POLE ı. TELEPHONE POLE

STATE PROJECT NUMBER 6425-00-71 R-11-E

STRUCTURE B-24-0041 REQ T-17-N DD BEGIN PROJECT 6425-00-71 DEAD END RD. Lake Sta.

R-12-E

TOTAL NET LENGTH OF CENTERLINE = 0.057 MI.

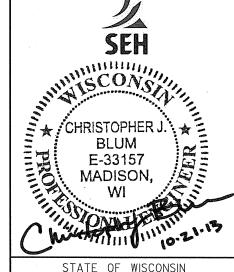
R-12-E

LAYOUT

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

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT WISC 2014057 6425-00-71

> ACCEPTED FOR of GREEN LAKE HWY COMMISSIONER ORIGINAL PLANS PREPARED BY



DEPARTMENT OF TRANSPORTATION

REPARED BY Surveyor

Deslaner

Consultant

CEDAR CORPORATION

SCALE L

R-11-E

Green

Také

R-32-E

R-32-E

F0

CWT

STANDARD ABBREVIATIONS:

HYDRANT ABUT ABUTMENT HYD AC ACRE ID INSIDE DIAMETER AGG AGGREGATE INV INVERT **AECPRC** APRON ENDWALL FOR CULVERT PIPE IΡ IRON PIPE ON PIN REINFORCED CONCRETE LHF LEFT-HAND FORWARD **ASPH ASPHALTIC** LENGTH OF CURVE AVERAGE LF LINEAR FOOT AVG AVERAGE DAILY TRAFFIC LC LONG CHORD OF CURVE ADT RF BACK FACE LS LUMP SUM BM BENCH MARK MH MANHOLE MOR BR BRIDGE MID POINT OF RADIUS COMMERCIAL ENTRANCE NC NORMAL CROWN CF CL OR C/L OR & CENTER LINE NO NUMBER CENTRAL ANGLE OR DELTA OBLITERATE OBLIT CONC CONCRETE PAVT PAVEMENT CPRC CULVERT PIPE REINFORCED CONCRETE PRIVATE ENTRANCE PΕ CULVERT PIPE REINFORCED CONCRETE **CPRCHE** PVRC POINT OF VERTICAL REVERSE CURVE HORIZONTAL ELLIPTICAL QOR QUARTER POINT OF RADIUS RADIUS CR CREEK REQUIRED CUBIC YARD REQ'D CY CURB AND GUTTER RES RESIDENCE OR RESIDENTIAL C & G DEGREE OF CURVE RIGHT-HAND FORWARD DESIGN HOUR VOLUME R/W RIGHT-OF-WAY DHV DISCH DISCHARGE RIVER DITCH GRADE **RDWY** ROADWAY DWY DRIVEWAY R/L OR R REFERENCE LINE FAST GRID COORDINATE SALVAGED SALV EAT STEEL PLATE BEAM GUARD SAN SANITARY SEWER **ENERGY ABSORBING TERMINAL** SF SQUARE FEET EOR END POINT OF RADIUS SQUARE YARD SY FI EVATION SDD STANDARD DETAIL DRAWINGS **ENT** ENTRANCE STA STATION **ESALS** EQUIVALENT SINGLE AXLE LOADS SS STORM SEWER STORM SEWER PIPE REINFORCED CONCRETE EXC **EXCAVATION** SSPRC EBS EXCAVATION BELOW SUBGRADE SE SUPERELEVATION RATE **EXIST EXISTING** TOP OF CURB FACE OF CURB T OR TN TOWN FC TRUCKS (PERCENT OF) FACE TO FACE FF FERT FERTILIZE TYP TYPICAL FIELD ENTRANCE VAR VARIABLE FΕ FLOW LINE VERTICAL CURVE VC FL FIBER OPTIC NORTH GRID COORDINATE

YD

YARD

UTILITY CONTACT LIST:

ADAMS-COLUMBIA ELECTRIC COOPERATIVE JIM GOODMAN PO BOX 900 WAUTOMA, WI 54982 PHONE: 608-339-3346 EMAIL: JGOODMAN@ACECWI.COM

DESIGN CONTACT: ATTENTION: CHRIS BLUM SHORT ELLIOTT HENDRICKSON INC. 6808 ODANA ROAD, SUITE 200 MADISON. WI 53719-1137 MAIN: 608-620-6199 DIRECT: 608-620-6192 EMAIL: CBLUM@SEHINC.COM

WDNR CONTACT: BOBBI JO FISCHER 427 EAST TOWER DRIVE, SUITE 100 WAUTOMA, WI 54982 PHONE: 920-787-3015

EMAIL: BOBBI.FISCHER@WISCONSIN.GOV GREEN LAKE COUNTY CONTACT:

AMY BROOKS 570 SOUTH STREET PO BOX 159 GREEN LAKE, WI 54941-0159 PHONE: 920-294-4065 EMAIL: ABROOKS@CO.GREEN-LAKE.WI.US

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN



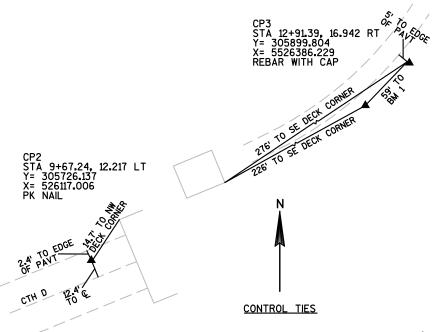
www.DiggersHotline.com

NOTE: WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

GENERAL NOTES:

- 1. NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
- 2. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
- 3. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE
- 4. WHEN THE QUANTITY OF HMA PAVEMENT OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.
- 5. WETLANDS, WATERWAYS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.
- 6. BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP.
- 7. CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.
- 8. TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE
- 9. REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.
- 10. THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- 11. ASPHALTIC AND CONCRETE SURFACES SHALL BE SAWCUT AT THE MATCH LINE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.
- 12. DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE MULCHED OR HAVE EROSIÓN MAT PLACED, TOPSOILED, FERTILIZED AND SEEDED.
- 13. FERTILIZER SHALL NOT BE USED NEAR NAVIGABLE WATERWAYS OR WETLANDS.
- 14. STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 15. A CONVERSION FACTOR OF 2.00 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE
- 16. A CONVERSION FACTOR OF 110 LBS/IN/SY IS USED TO ESTIMATE QUANTITIES FOR HMA PAVEMENT.
- 17. ALL TYPES OF ASPHALTIC PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
ASPHALTIC SURFACE	4.0	2.25 1.75



STA 7+40.25, 31.797 RT Y= 305596.831 X= 525925.324

PROJECT NO: 6425-00-71

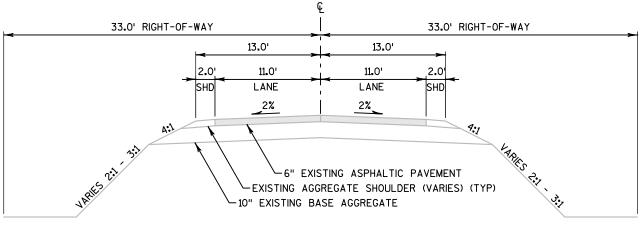
HUNDREDWEIGHT

HWY: CTH D

COUNTY: GREEN LAKE

PLAN: GENERAL NOTES, CONTACT LIST, SWING TIES

SHEET



TYPICAL EXISTING SECTION

CTH D STA 7+25.00 TO 9+73.75 STA 10+26.25 TO 13+54.00

KEYED NOTE LEGEND

- 1 4.0" ASPHALTIC SURFACE
- (2) 8.0" BASE AGGREGATE DENSE 1 1/4-INCH
- 3 4.0" BASE AGGREGATE DENSE 3/4-INCH

SUPER ELEVATION

STATION	TYPE	SHOULDER LEFT	LEFT LANE	RIGHT LANE	SHOULDER RIGHT
8+50.00'	MATCH EXIST	-4.00%	-2.50%	-3.11%	-4.00%
8+89.00'	END NORMAL CROWN	-4.00%	-2.00%	-2.00%	-2.00%
9+28.00'	LEVEL CROWN	-4.00%	-2.00%	0.00%	0.00%
9+67.00'	REVERSE CROWN	-2.00%	-2.00%	2.00%	2.00%
10+30.00'	BRIDGE LOCK	-2.00%	-2.00%	2.00%	2.00%
11+08.00'	BEGIN FULL SUPER	-6.00%	-6.00%	2.50%	-2.00%
11+50.00'	MATCH EXIST	-8.69%	-8.69%	2.53%	-4.00%

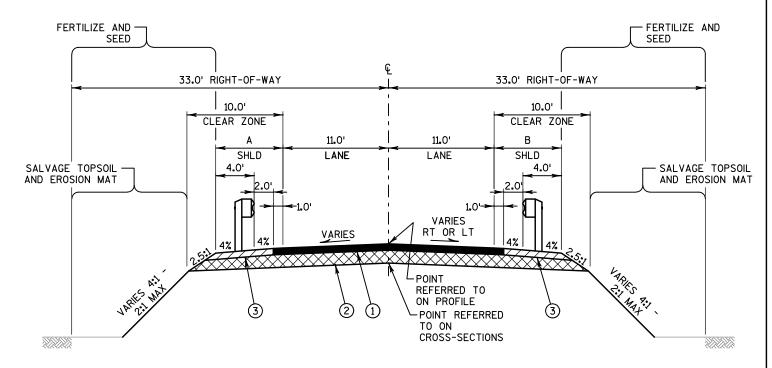
NOTE: DS = 35 MPH; X = 39'

E=VARIES 2.0'-9.7' STA 7+50, LT TO STA 8+50, LT VARIES 11.0'-3.0' STA 11+50, LT TO STA 13+54, LT

F=VARIES 2.0'-7.9' STA 7+25, RT TO STA 8+50, RT VARIES 7.2'-2.5' STA 11+50, RT TO STA 12+15, RT

TYPICAL FINISHED SECTION

CTH D STA **7**+25.00 TO 8+50.00 STA 11+50.00 TO 13+54.00



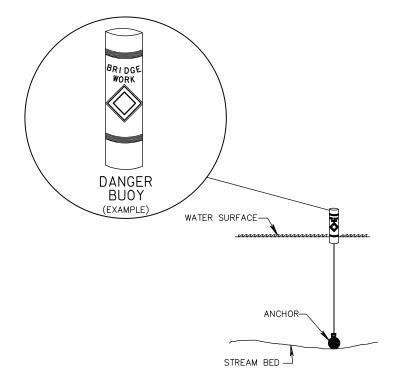
A=VARIES 3.0'-8.0' STA 8+50 TO 9+74

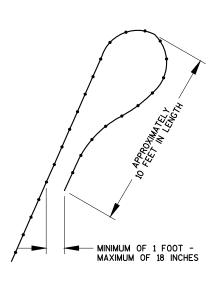
B=VARIES 3.0'-8.0' STA 10+26 TO 11+50

TYPICAL FINISHED SECTION

CTH D STA 8+50.00 TO 9+73.75 STA 10+26.25 TO 11+50.00

PROJECT NO:6425-00-71 HWY:CTH D COUNTY:GREEN LAKE PLAN: TYPICAL SECTIONS SHEET ____ **E**





CONSTRUCTION AHEAD BUOY (TO BE PLACED 200 FEET FROM BRIDGE)

BRIDGE WORK BUOY
(TO BE PLACED 100 FEET FROM BRIDGE)

DANGER BUOY PLACEMENT DETAIL

USE AS DIRECTED BY COAST GUARD OR DNR PERMIT

SILT FENCE TURN-AROUND DETAIL

PROJECT NO:6425-00-71

HWY: CTH D

STREAM BED -

COUNTY: GREEN LAKE

CONSTRUCTION DETAIL

SHEET

PLOT DATE: 10/4/2013 10:16 AM

PLOT BY : ----

LAYOUT NAME : CONSTRUCTION DETAIL

PLOT SCALE : NTS

WISDOT/CADDS SHEET 42

DATE 09	DEC13	E S	TIMAT	E O F Q U A N	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	6425-00-71 QUANTI TY
0010	201. 0105	CLEARING	STA	4. 000	4. 000
0020 0030	201. 0205	GRUBBING S REMOVING OLD STRUCTURE OVER WATERWAY	STA LS	4. 000 1. 000	4. 000 1. 000
0030	203. 0000. 3	WITH MINIMAL DEBRIS (STATION) 01. 10+00	LJ	1.000	1.000
0040	204. 0165	REMOVING GUARDRAIL	LF CV	290.000	290. 000
0050	205. 0100	EXCAVATION COMMON	CY	300. 000	300. 000
0060	206. 1000	EXCAVATION FOR STRUCTURES BRIDGES	LS	1. 000	1. 000
0070	208. 0100	(STRUCTURE) 01. B-24-0041 BORROW	CY	190.000	190. 000
0800	210. 0100	BACKFILL STRUCTURE	CY	170. 000	170. 000
0090	213. 0100	FINISHING ROADWAY (PROJECT) 01. 6425-00-71	EACH	1. 000	1. 000
0100	305. 0110	BASE AGGREGATE DENSE 3/4-INCH	TON	180. 000	180. 000
0110 0120	305. 0120 455. 0605	BASE AGGREGATE DENSE 1 1/4-INCH TACK COAT	TON GAL	740. 000 18. 000	740. 000 18. 000
0130	465. 0105	ASPHALTIC SURFACE	TON	150. 000	150. 000
0140	502. 0100	CONCRETE MASONRY BRIDGES	CY	202.000	202.000
0150	502. 3200	PROTECTI VE SURFACE TREATMENT	SY	220. 000	220. 000
0160	505. 0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	4, 000. 000	4, 000. 000
0170	505. 0605	BAR STEEL REINFORCEMENT HS COATED	LB	28, 590. 000	28, 590. 000
0100	E12 40/0	BRIDGES	1.0	1 000	1 000
0180	513. 4060	RAILING TUBULAR TYPE M (STRUCTURE) 01. B-24-0041	LS	1. 000	1. 000
0190	516. 0500	RUBBERI ZED MEMBRANE WATERPROOFING	SY	20.000	20. 000
0200	550. 1100	PILING STEEL HP 10-INCH X 42 LB	LF	450.000	450. 000
0210	606. 0200	RI PRAP MEDI UM	CY	80. 000	80.000
0220	606. 0300	RI PRAP HEAVY	CY	138. 000	138. 000
0230	612. 0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	60.000	60. 000
0240	612. 0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	100.000	100.000
0250	614. 0010	BARRIER SYSTEM GRADING SHAPING FINISHING	EACH	1. 000	1. 000
0260	614. 2300	MGS GUARDRAIL 3	LF	100.000	100.000
0270	614. 2500	MGS THRIE BEAM TRANSITION	LF	160.000	160. 000
0280	614. 2610	MGS GUARDRAIL TERMINAL EAT	EACH	4. 000	4. 000
0290	619. 1000	MOBILIZATION	EACH	1. 000	1. 000
0300	625. 0500	SALVAGED TOPSOIL	SY	390. 000	390. 000
0310	627. 0200	MULCHI NG	SY	230. 000	230. 000
0320	628. 1504	SILT FENCE	LF	1, 170. 000	1, 170. 000
0330 0340	628. 1520 628. 1905	SILT FENCE MAINTENANCE MOBILIZATIONS EROSION CONTROL	LF EACH	1, 870. 000 1. 000	1, 870. 000 1. 000
0340	628. 1905			1. 000	1. 000
0360	628. 2008	EROSION MAT URBAN CLASS I TYPE B	SY	640. 000	640. 000
0370 0380	628. 6005 629. 0210	TURBIDITY BARRIERS FERTILIZER TYPE B	SY CWT	370. 000 1. 000	370. 000 1. 000
0390	630. 0110	SEEDING MIXTURE NO. 10	LB	10. 000	10.000
0400	630. 0200	SEEDING TEMPORARY	LB	22. 000	22. 000
0410	630. 0300	SEEDING BORROW PIT	LB	10. 000	10. 000
0410	630. 0300	POSTS WOOD 4X6-INCH X 14-FT	EACH	4. 000	4. 000
0430	637. 2230	SIGNS TYPE II REFLECTIVE F	SF	12. 000	12. 000
0440	638. 2602	REMOVING SIGNS TYPE II	EACH	2.000	2. 000
0450	638. 3000	REMOVING SMALL SIGN SUPPORTS	EACH	2. 000	2. 000
0460	642. 5001	FIELD OFFICE TYPE B	EACH	1. 000	1. 000
0470	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 6425-00-71	EACH	1. 000	1. 000
0480	645. 0120	GEOTEXTILE FABRIC TYPE HR	SY	415.000	415. 000
0490 0500	646. 0106 650. 4500	PAVEMENT MARKING EPOXY 4-INCH CONSTRUCTION STAKING SUBGRADE	LF LF	1, 000. 000 630. 000	1, 000. 000 630. 000
5555	300. 4000	SS. S. MOSTI ON STRAINS SUBSIGNEDE		550. 550	230. 000

2	
3	

9DEC13	E S T	I M A	TE OF QUAN	TITIES
				6425-00-71
ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
650 5000	CONSTRUCTION STAKING BASE	I F	630, 000	630. 000
		I S		1. 000
050. 0500		LJ	1. 000	1. 000
650, 9910		LS	1, 000	1. 000
222.77.0	CONTROL (PROJECT) 01. 6425-00-71			7. 000
650. 9920	CONSTRUCTION STAKING SLOPE STAKES	LF	630.000	630.000
690. 0150	SAWING ASPHALT	LF	46. 000	46.000
715. 0502	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	1, 212. 000	1, 212. 000
ASP. 1TOA	ON-THE-JOB TRAINING APPRENTICE AT \$5.	HRS	1, 200. 000	1, 200. 000
	00/HR			
ASP. 1TOG	ON-THE-JOB TRAINING GRADUATE AT \$5.00/HR	HRS	600.000	600.000
	650. 5000 650. 6500 650. 9910 650. 9920 690. 0150 715. 0502 ASP. 1TOA	ITEM ITEM DESCRIPTION 650. 5000 CONSTRUCTION STAKING BASE 650. 6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. B-24-0041 650. 9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 6425-00-71 650. 9920 CONSTRUCTION STAKING SLOPE STAKES 690. 0150 SAWING ASPHALT 715. 0502 INCENTIVE STRENGTH CONCRETE STRUCTURES ASP. 1TOA ON-THE-JOB TRAINING APPRENTICE AT \$5. 00/HR	ITEM DESCRIPTION UNIT 650. 5000 CONSTRUCTION STAKING BASE 650. 6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. B-24-0041 650. 9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 6425-00-71 650. 9920 CONSTRUCTION STAKING SLOPE STAKES 690. 0150 SAWING ASPHALT 715. 0502 INCENTIVE STRENGTH CONCRETE STRUCTURES ASP. 1TOA ON-THE-JOB TRAINING APPRENTICE AT \$5. HRS 00/HR	ITEM

AGGREGATES

STATION - STATION	LOCATION	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	REMARKS
СТНО				
7+25 - 8+50	RT	50	18	SHOULDERS
7+50 - 8+50	LT	43	16	SHOULDERS
8+50 - 9+73.75	CL	267	52	MAINLINE & SHOULDERS
10+26.25 - 11+50	CL	253	45	MAINLINE & SHOULDERS
11+50 - 12+15	RT	25	9	SHOULDERS
11+50 - 12+27	LT	40	16	SHOULDERS
12+27 - END CONSTRUCTION	LT	62	24	SHOULDERS
ITEM TOTALS		740	180	-

CLEARING & GRUBBING

STATION - STATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
СТНО		
8+00 - 12+00	4	4
ITEM TOTALS	4	4

LOCATION	213.0100 EACH
PROJECT (6425-00-71)	1
	1

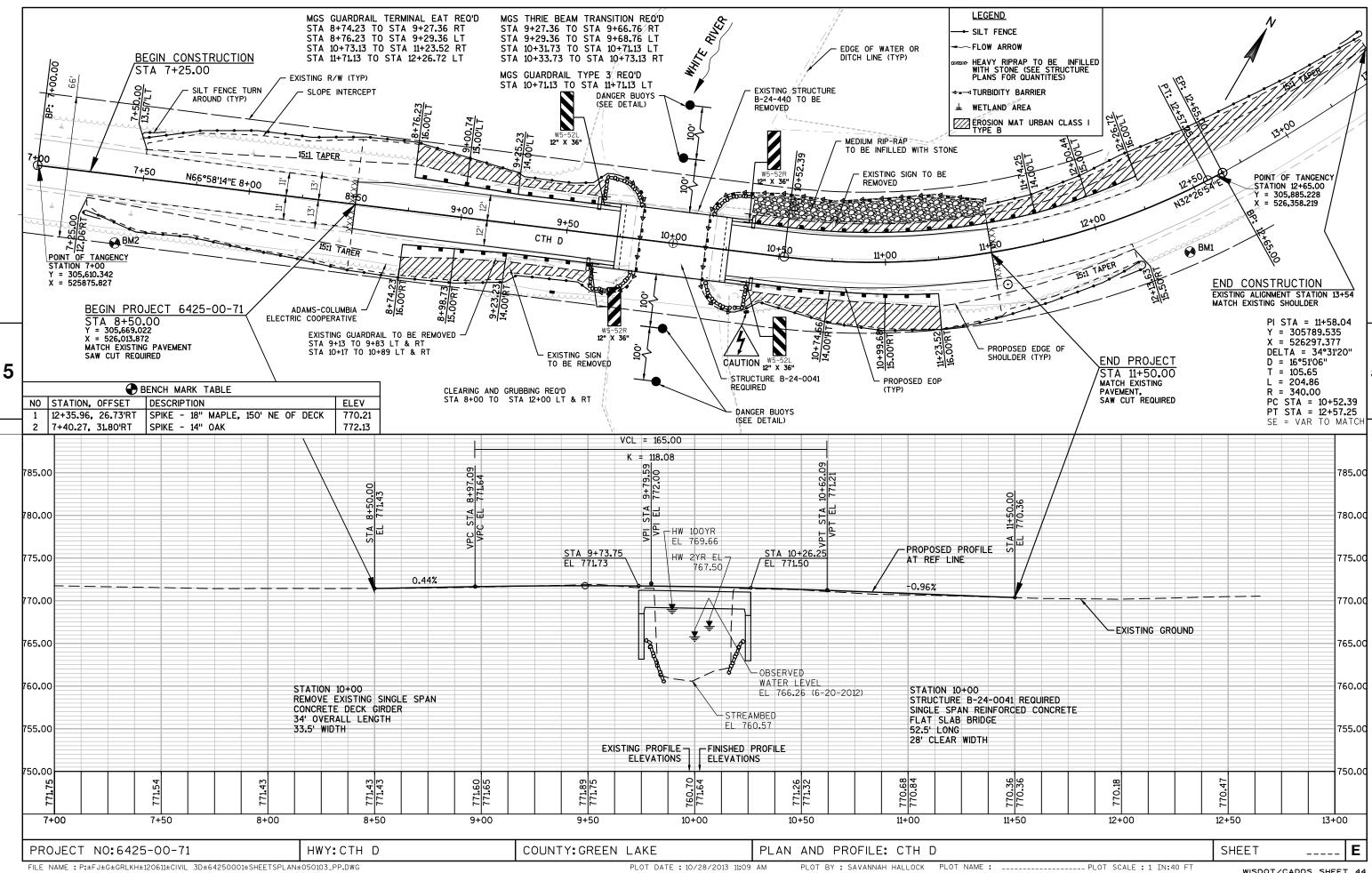
FINISHING ROADWAY

,	lar.		21	1	EARTHWORK DATA SU	MMARY TABLE	.,					
DIVISION	ST AGE	CATEGORY CODE	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1)	SALVAGED/ UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (2)	UNEXPANDED FILL	EXPANDED FILL (3)	MASS ORDINATE +/- (4)	DIVISION WASTE	208.0100 DIVISION BORROW
					сит				FACTOR 1.30			
1	1	0010	7+25 - 9+73.75	CTHD	160	50	110	189	246	-136		
		0010	10+26.25 - 11+50	CTHD	112	50	62	105	137	-75		
		0010	11+50 - 12+15	CTH D (RT)	28	0	28	6	8	20		
	STAGE 1 SUBTO	TAL			300	100	200	300	390	-190	0	190
DIVISION 1 SUBT	OTAL				300	100	200	300	390	-190	0	190
ITEM TOTALS					300	100	200	300	390	-190	0	190
					TOTAL COMMONEXC		300	CY				

COUNTY: GREEN LAKE MISCELLANEOUS QUANTITIES SHEET PROJECT NO: 6425-00-71 HWY: CTH D

¹⁾ COMMON EXCAVATION IS THE SUM OF THE CUT, ITEM NUMBER 205.0100.
2) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL
3) EXPANDED FILL. FACTOR = 1.3
4) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE STAGE. PLUS QUANTITY INDICATES EXCESS OF MATERIAL WITHIN THE STAGE AND IS CATEGORIZED AT DIVISION WASTE. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE STAGE AND IS CATEGORIZED AS DIVISION BORROW, ITEM NUMBER 208.0100.

ASPHALTIC PAVEMENT ITEMS BARRIER SYST	TEM GRADING SHAPING FINISHING, ITEM 614.0010
STATION - STATION LOCATION LOCATION SURFACE SURFACE SURFACE SURFACE STATION - STATION LOCATION LOCATION CY	**BORROW **SALVAGED *FERTILIZER TYPE B **SEEDING **MULCHING EACH CY CY SY CWT LB SY 0 0 30 0.063 1.4 15 1 0 0 30 0.1 1.4 15 1
MCS CHAPDRAIL	EROSION CONTROL ITEMS
MGS GUARDRAIL	CTHD CTHD
CTHD CTHD	CONSTRUCTION STAKING
PAVEMENT MARKING 646.0106 PAVEMENT MARKING EPOXY4-BNCH EDGELINE DOUBLE WHITE YELLOW	NCENTIVE STRENGTH CONCRETE STRUCTURES
PROJECT NO:6425-00-71 HWY:CTH D COUNTY:GREEN LAKE MISCELLANEOUS QL FILE NAME:P:\FJ\G\G\G\R\L\R\L\22/2013 1:01 PM PLOT BY:SAVANNAI PLOT BY:SAVANNAI	JANTITIES SHEET E wisdot/cadds sheet 43



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
14B42-02A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-01A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-03A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-06	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-16A	PAVEMENT MARKING (MAINLINE)

TYPICAL APPLICATION OF SILT FENCE

6

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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)



SILT FENCE

S.D.D. 8 E 9-6

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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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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

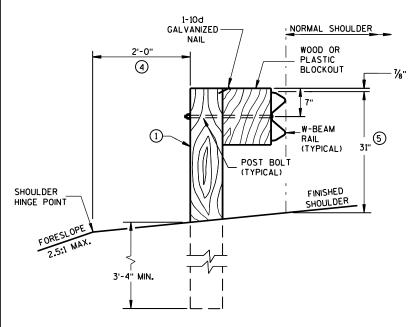
CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10

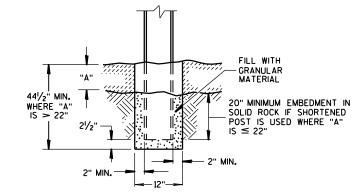
GENERAL NOTES

- (1) WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 21/2INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- (4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

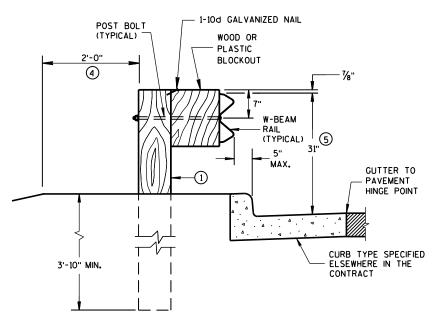


END VIEW

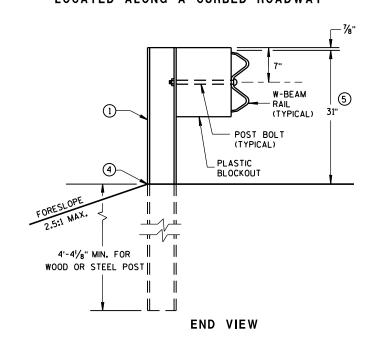
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



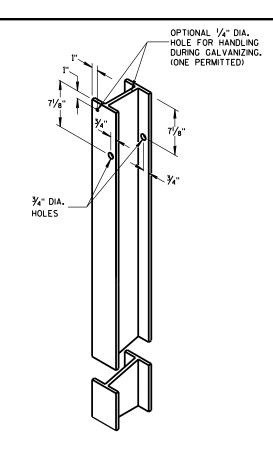
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



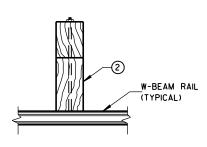
END VIEW
LOCATED ALONG A CURBED ROADWAY



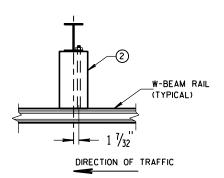
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



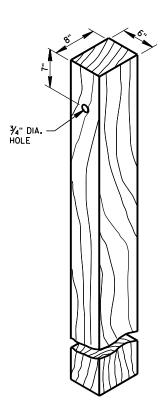
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D.

 \Box

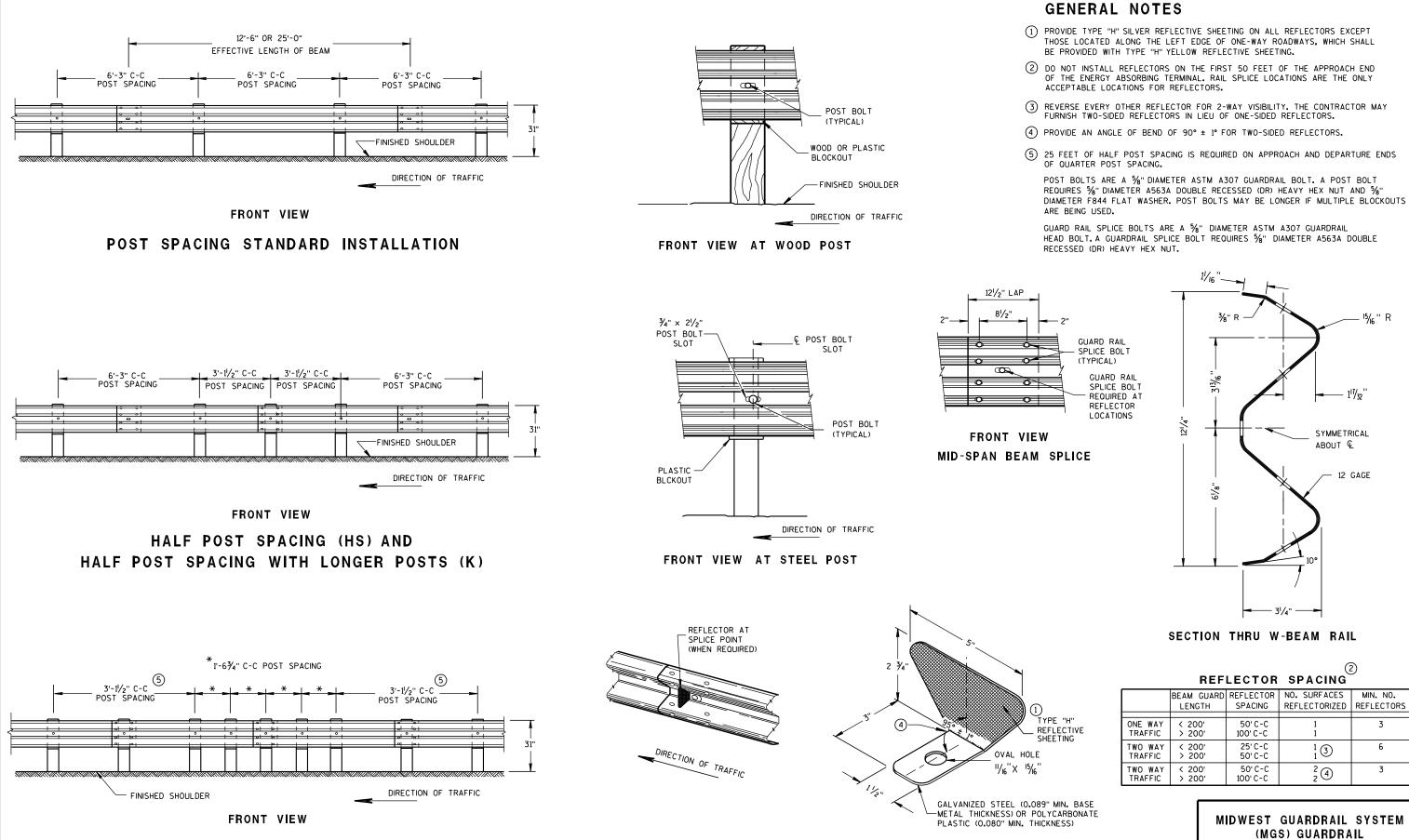
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ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

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QUARTER POST SPACING (QS)

¹⁵/₁₆" R

SYMMETRICAL

12 GAGE

ABOUT €

6

REFLECTOR SPACING

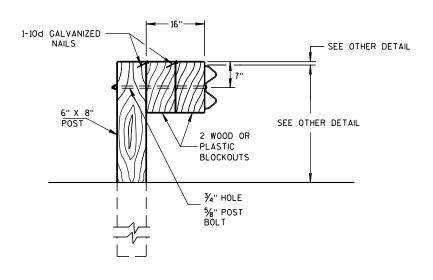
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY	< 200' > 200'	25' C-C 50' C-C	1 3	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 4	3

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

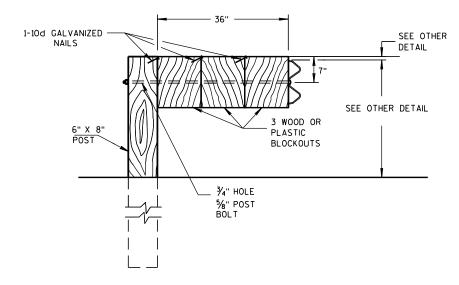
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DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

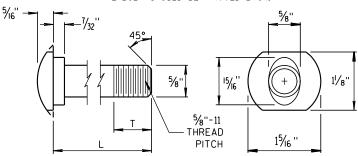


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

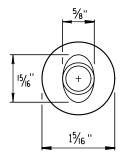
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

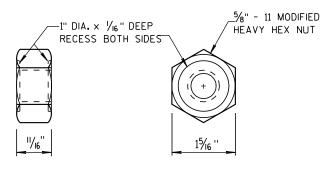


POST BOLT TABLE

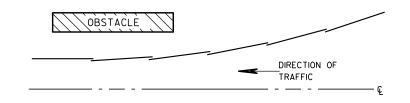
L	T (MIN.)
11/4"	11/8"
2"	13/4"
10''	4"
14''	41/16"
18"	4"
21"	41/16"
25"	4"



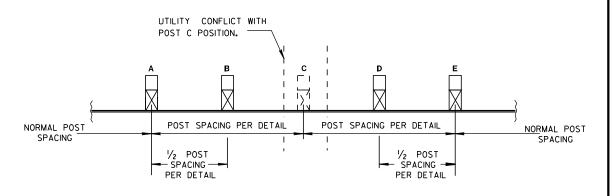
ALTERNATE BOLT HEAD



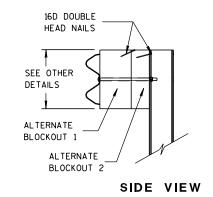
POST BOLT AND RECESS NUT

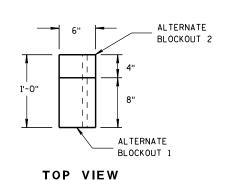


PLAN VIEW **BEAM LAPPING DETAIL**



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





ALTERNATE WOOD

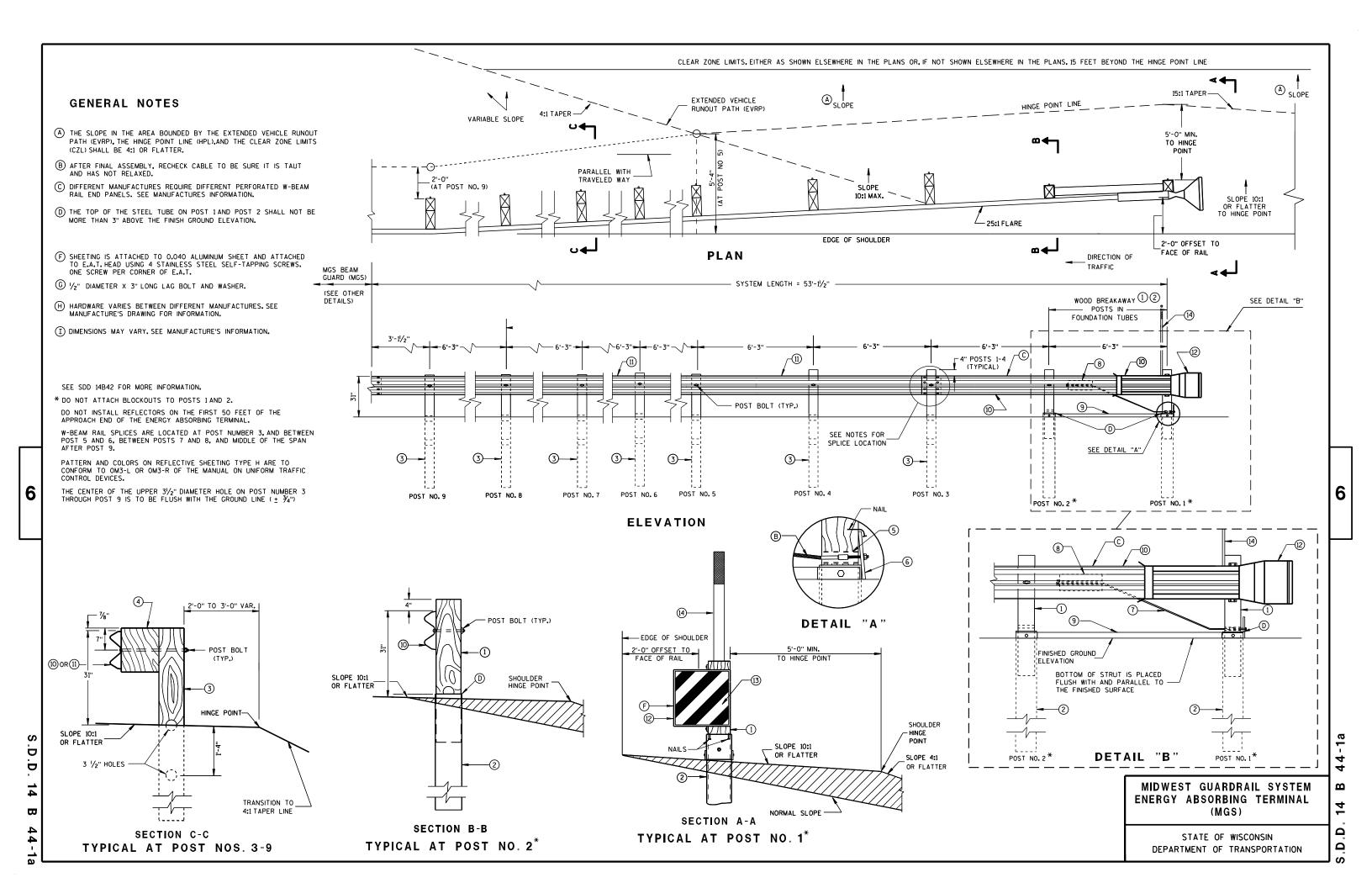
BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

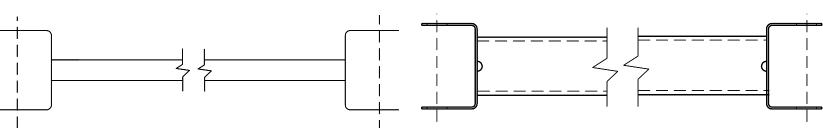
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

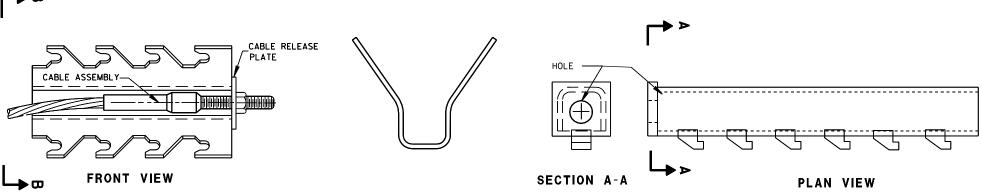
APPROVED /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT

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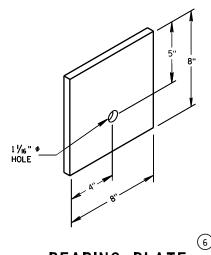


9 H

GENERIC ANCHOR CABLE BOX

BILL OF MATERIALS

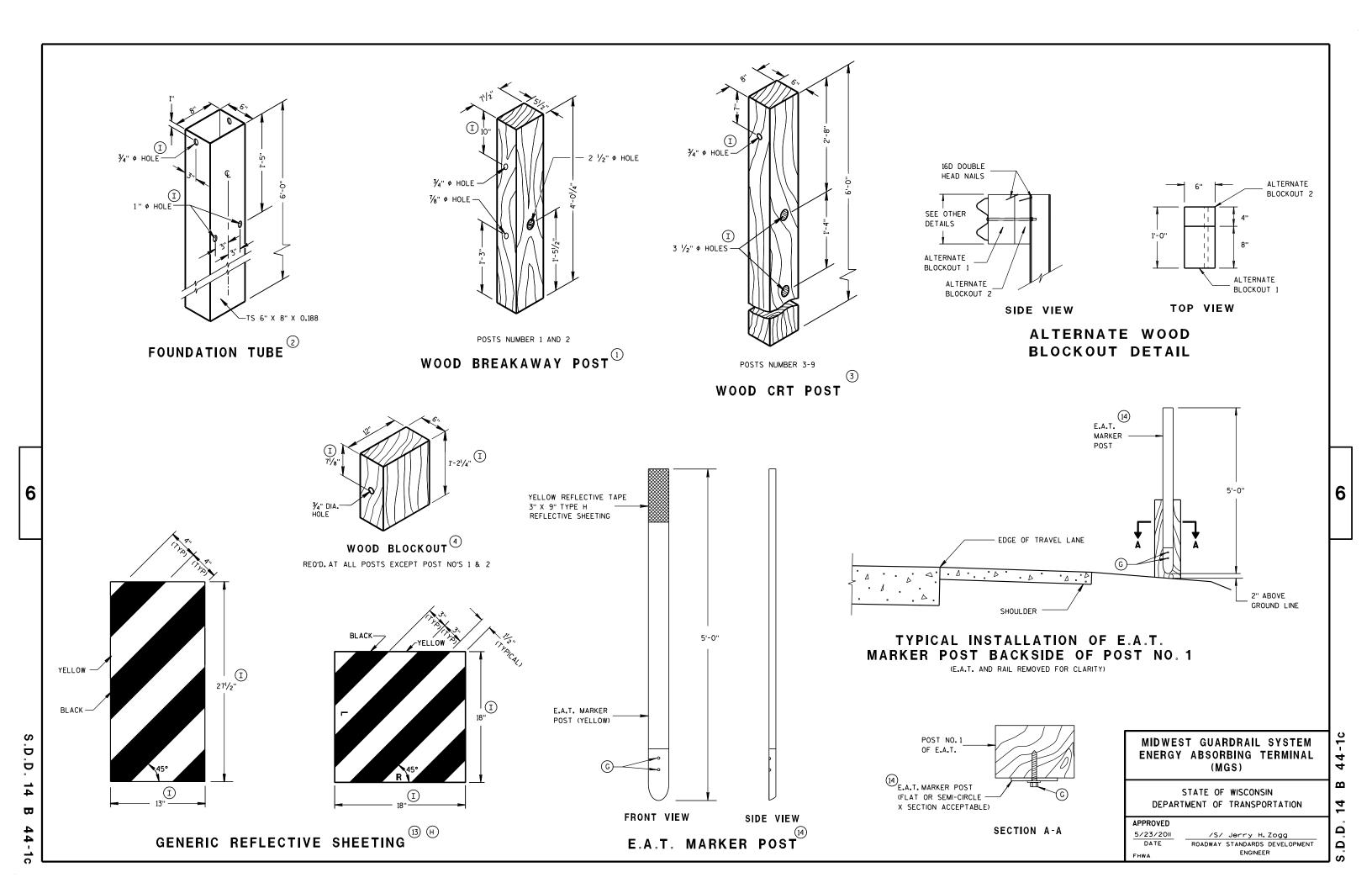
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
1	WOOD BREAKAWAY POST
2	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2
3	WOOD CRT
4	WOOD BLOCKOUT
(5)	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(1)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	END SECTION EAT
13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE H (ONLY THE SHEETING IS SUPPLIED BY THE MANUFACTURER)
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
	ISEE ALTROPED TRODUCTS EIST/

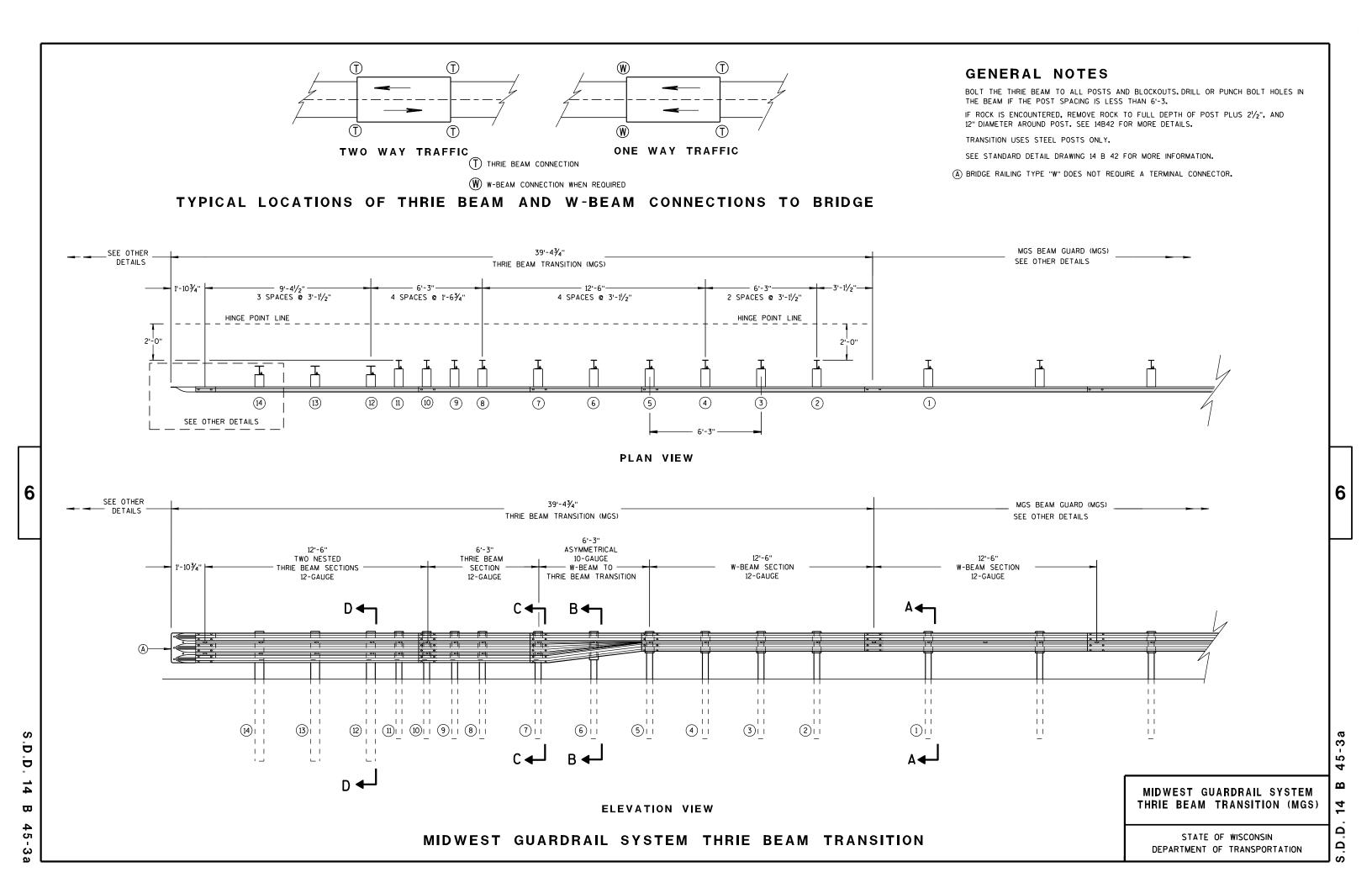


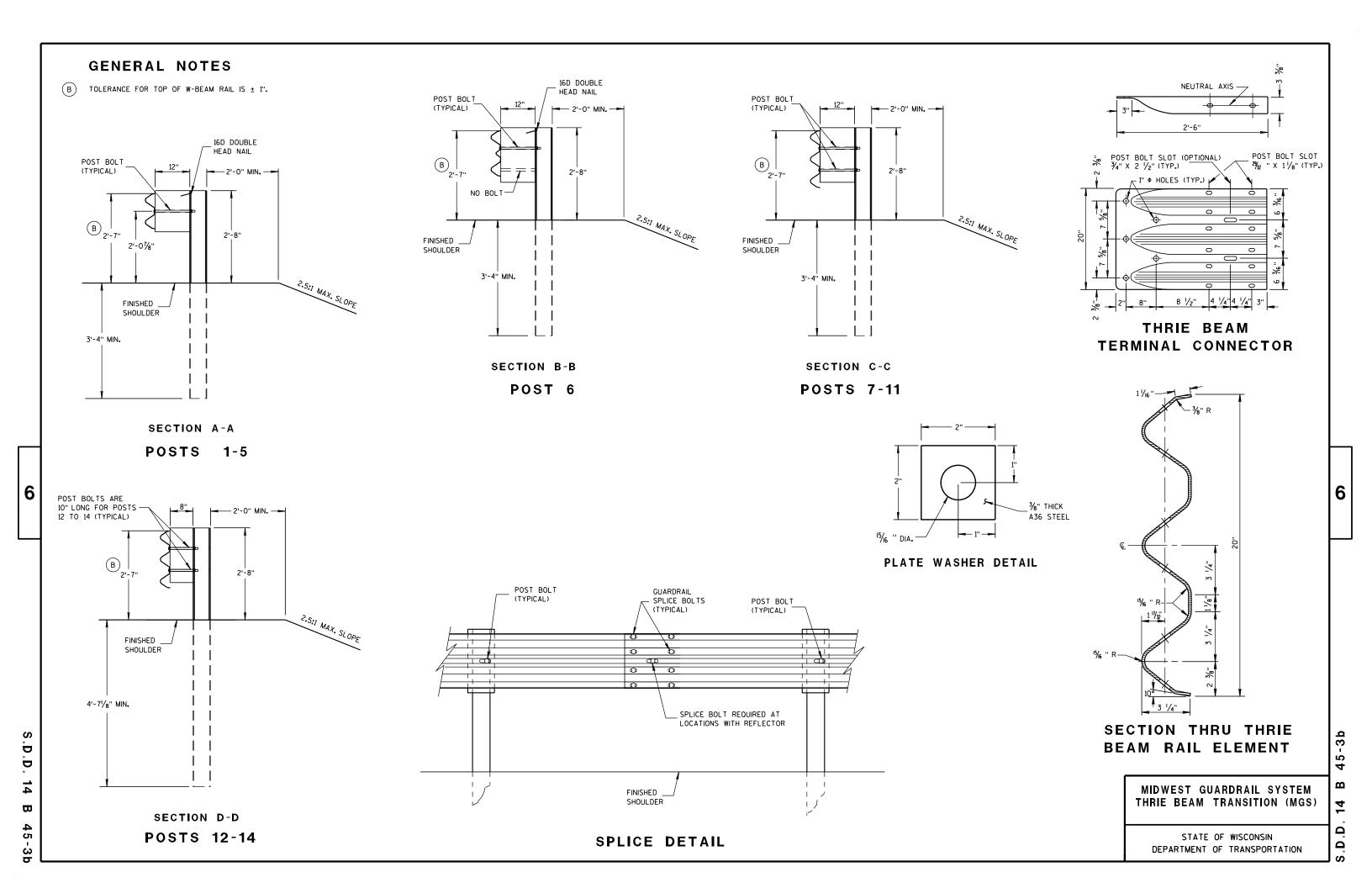
BEARING PLATE

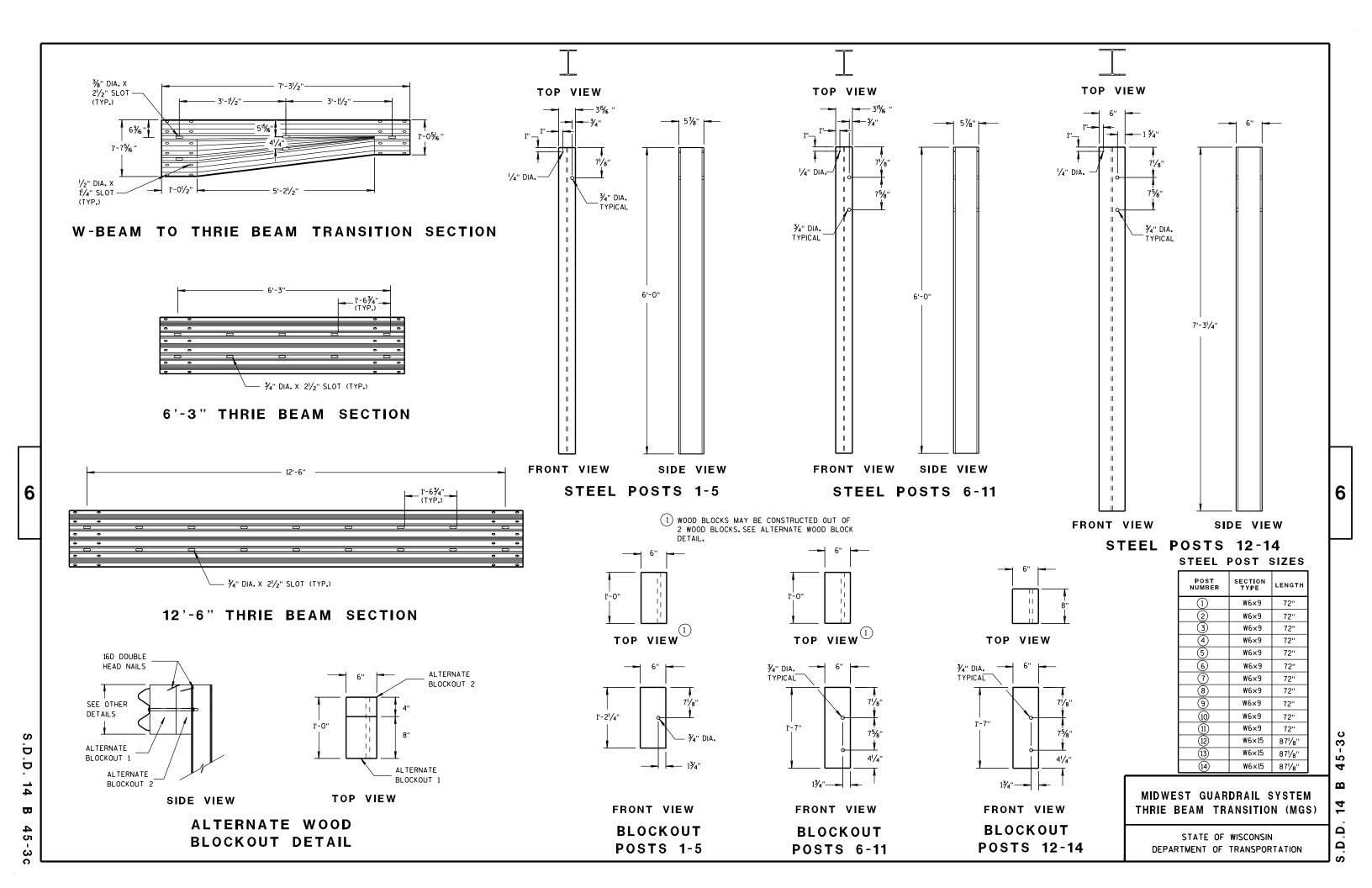
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

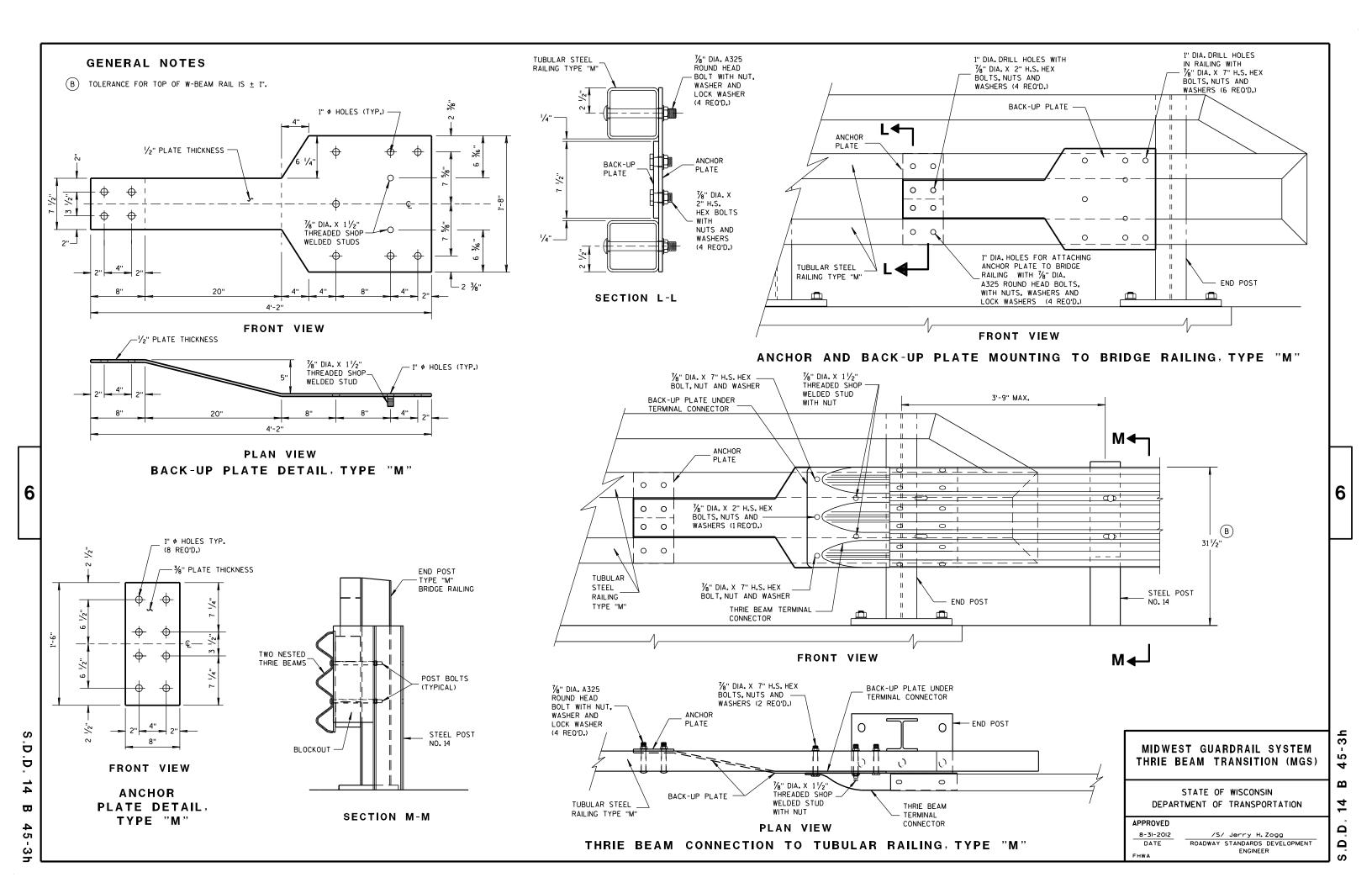
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION S.D.D.













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

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)

M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

- (1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

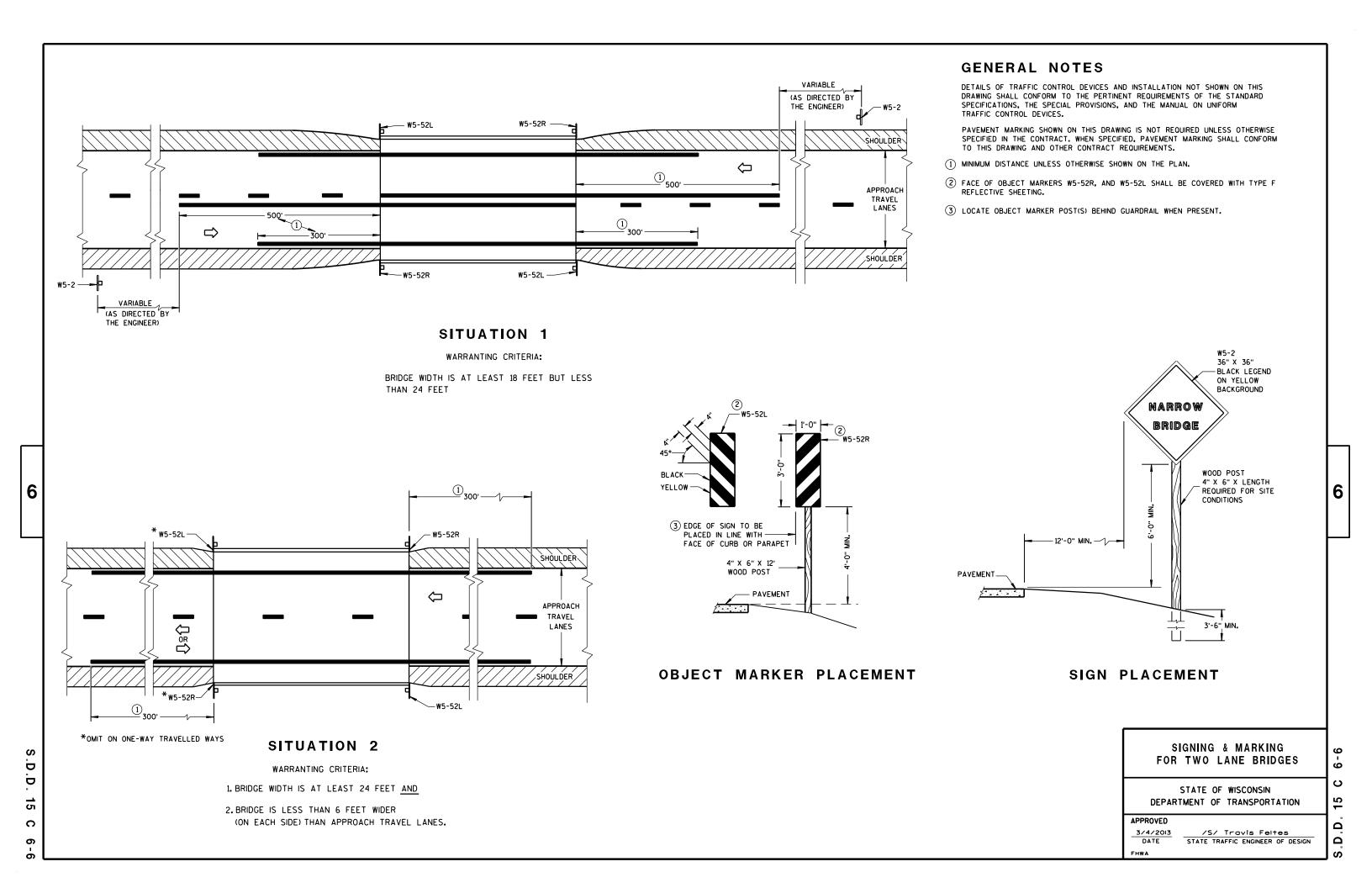
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

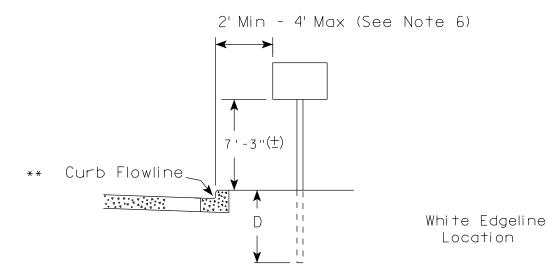
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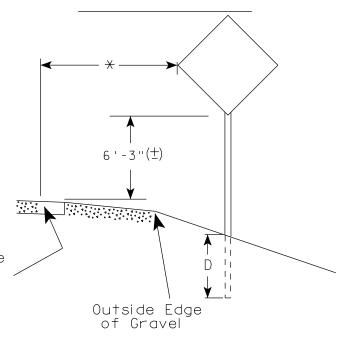




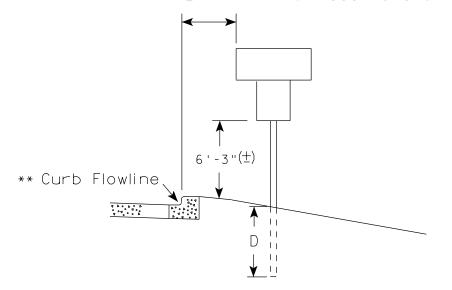
URBAN ARFA



RURAL AREA (See Note 2)



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



5'-3"(生) White Edgeline D^{-1} Location Outside Edae of Gravel

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where

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

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" (+).
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (+) or as directed by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3'' (\pm). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 9/30/13

SHEET NO:

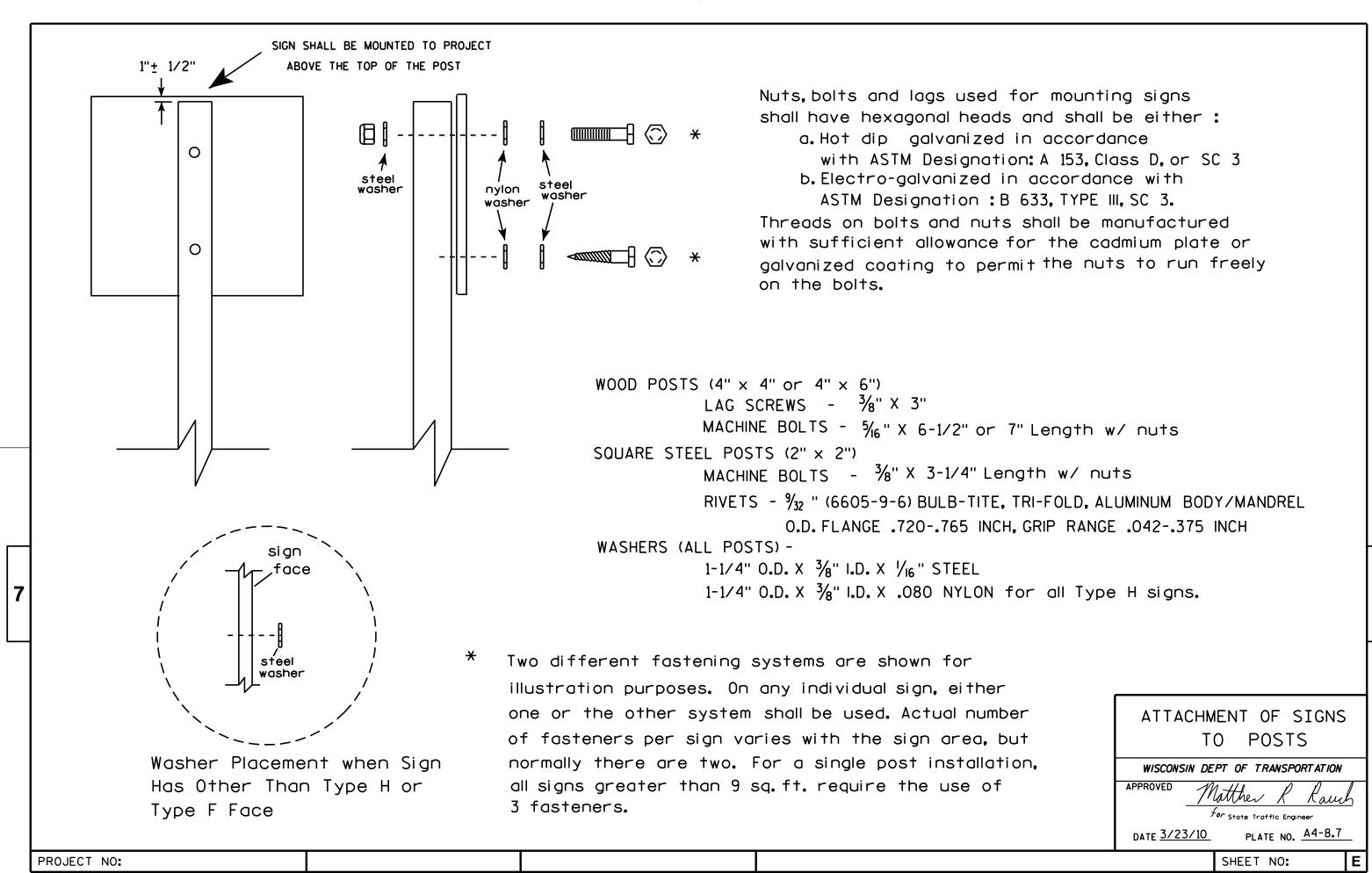
PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN COUNTY:

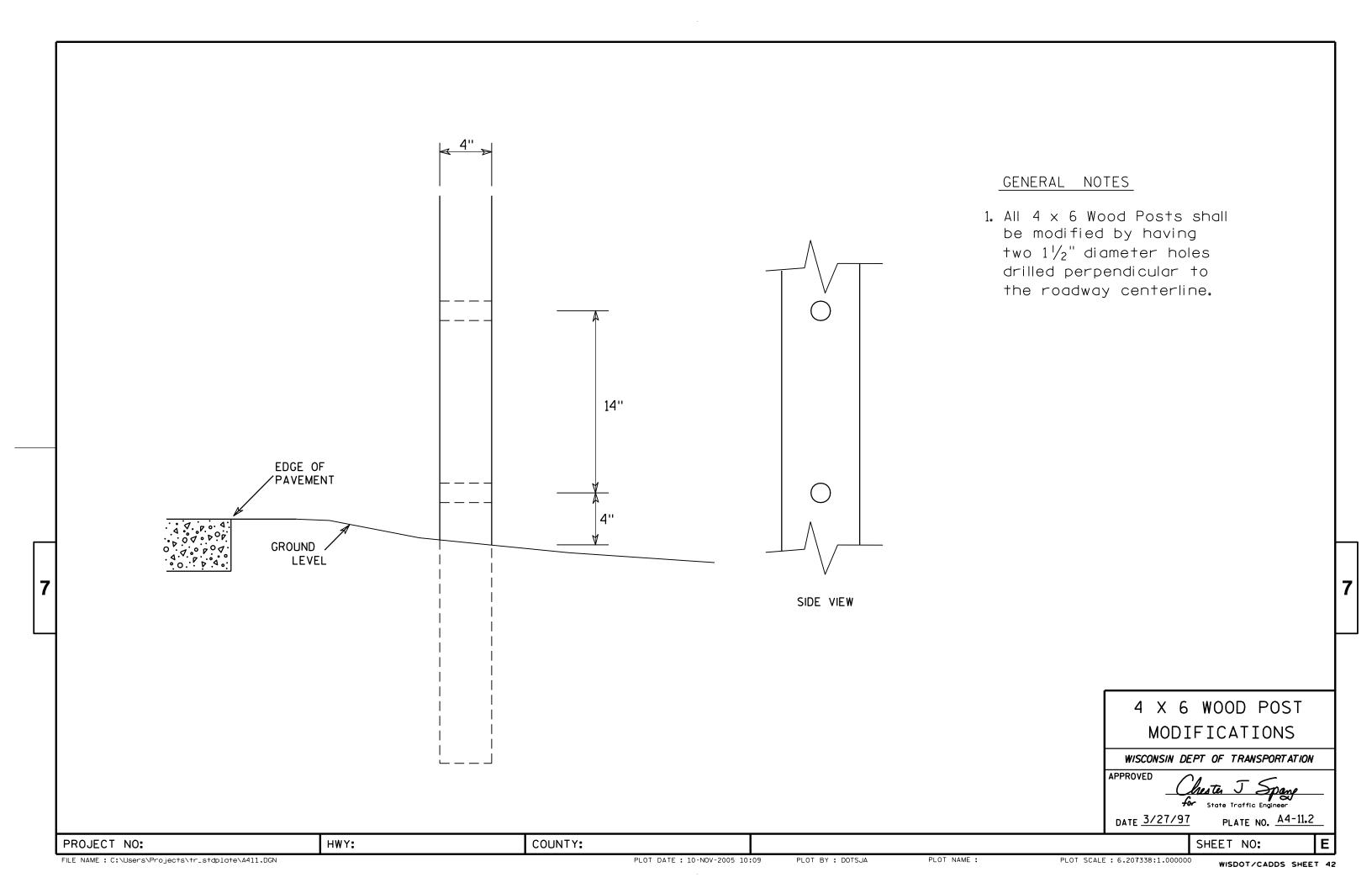
PLOT DATE: 30-SEP-2013 13:25

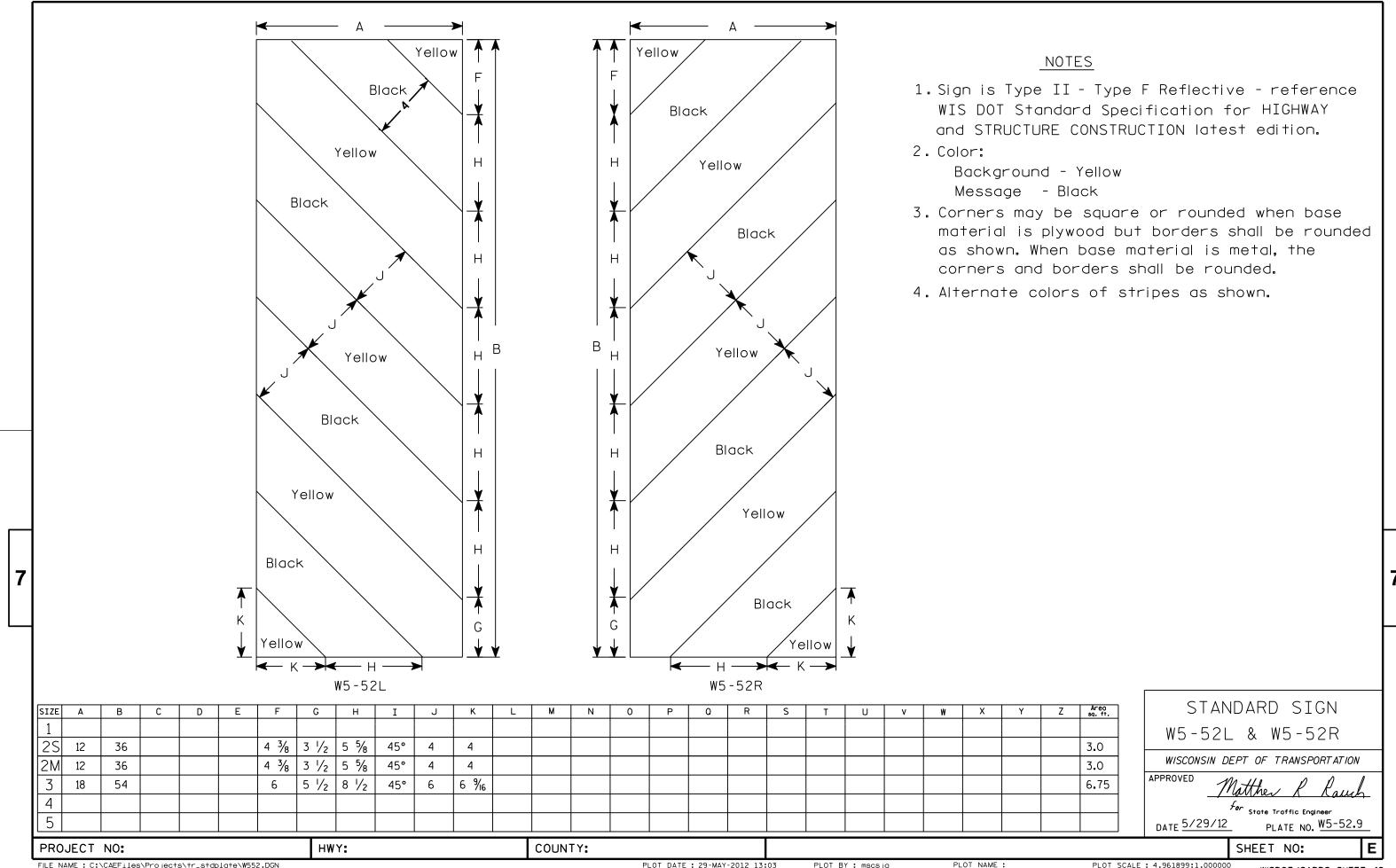
PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42





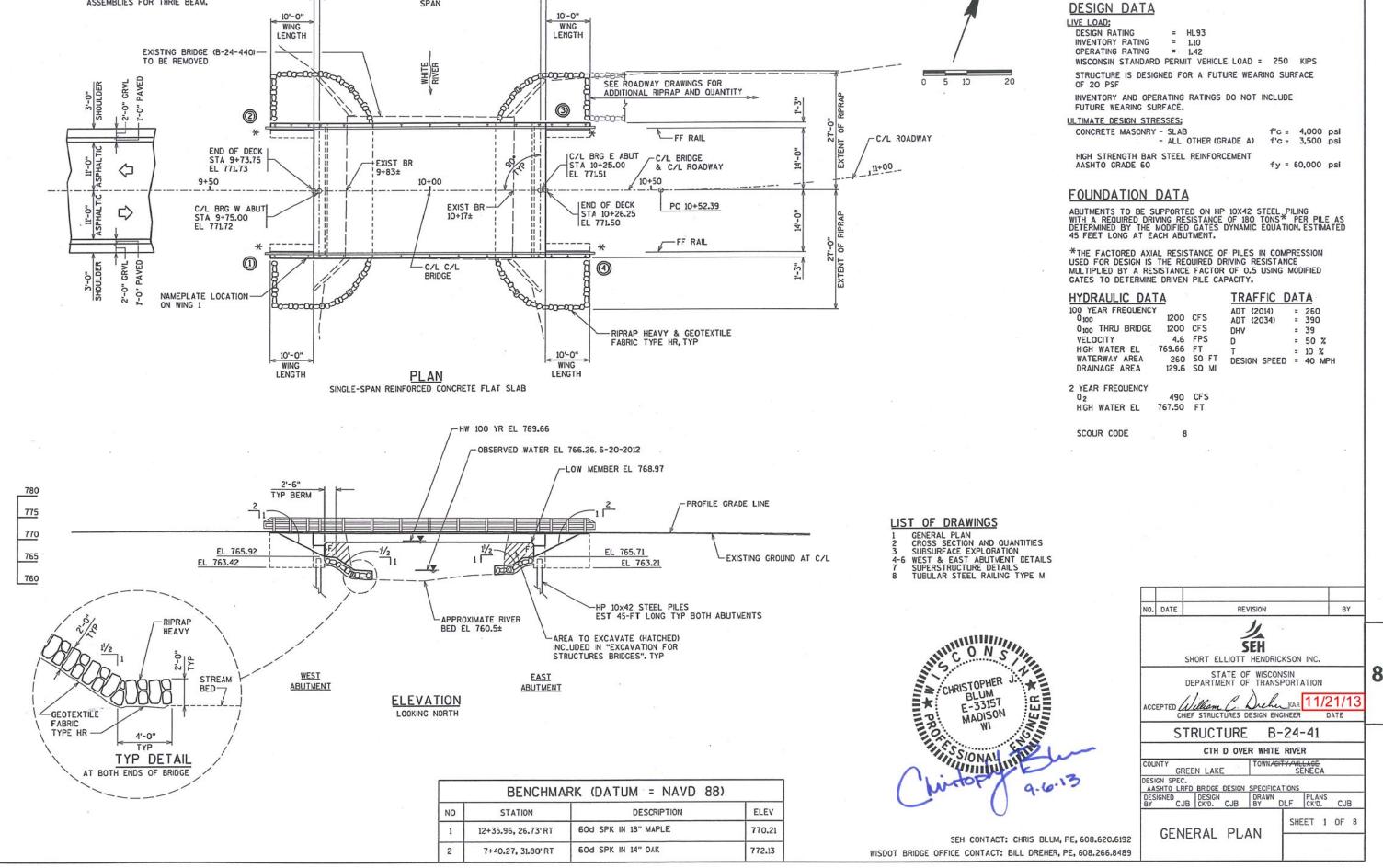




O INDICATES WING.

* LOCATION OF ANCHOR

ASSEMBLIES FOR THRIE BEAM.



52'-6"

BACK TO BACK OF ABUTMENTS

50'-0"

SPAN

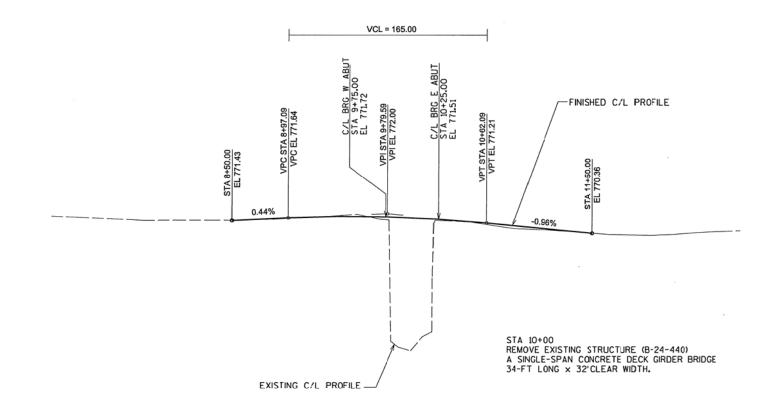
1'-3"

1'-3"

STATE PROJECT NUMBER

6425-00-71





PROFILE GRADE LINE

C/L ROADWAY 30'-6" OUT TO OUT **SOUTH** <u>NORTH</u> SIDE <u>SIDE</u> 1'-3"_ 14'-0" 14'-0" -POINT ON PROFILE GRADE 0.02 FT/FT 0.02 FT/FT REINFORCED CONCRETE 2'-3" MIN SLAB

CROSS SECTION THRU BRIDGE

TOTAL ESTIMATED QUANTITIES - B-24-41

	BID ITEM NUMBER	BID ITEMS	UNIT	WEST ABUT	EAST ABUT	SUPER	TOTALS
	203.0600.S	600.S REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS (STATION) 10+00		-	-	-	1
	206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-24-41	LS	-	-	-	1
	210.0100	BACKFILL STRUCTURE	CY	85	85	-	170
	502.0100	CONCRETE MASONRY BRIDGES	CY	32	32	138.0	202
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	220	220
	505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	2,000	2,000	-	4,000
- 1	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	1,500	1,500	25,590	28,590
	513.4060	RAILING TUBULAR TYPE M B-24-41	LS	-	-	-	1
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	10	10	-	20
1	550.11CO	PILING STEEL HP 10-INCH x 42 LB	LF	225	225	-	450
	606.0300	RIPRAP HEAVY	CY	73	55	-	138
	612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	30	30	-	60
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	50	50	-	100
	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	125	115	-	240
		NON-BID ITEMS					
		FILLER	SIZE				1/2 & 3/4
- 1							

1) INCLUDES REINFORCED CONCRETE APRON ENDWALL AND RODENT SHIELD PER SDD REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

C/L BRIDGE &-

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

SEE ROADWAY PLANS FOR EXISTING UTILITY LOCATIONS.

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

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

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF V_2 " FILLER WITH NON-STAINING GRAY NON-ASPHALTIC JOINT SEALER (I" DEEP & HOLD V_8 " BELOW SURFACE OF CONCRETE).

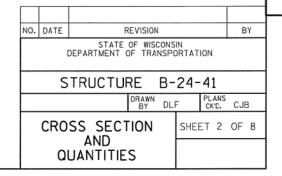
THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

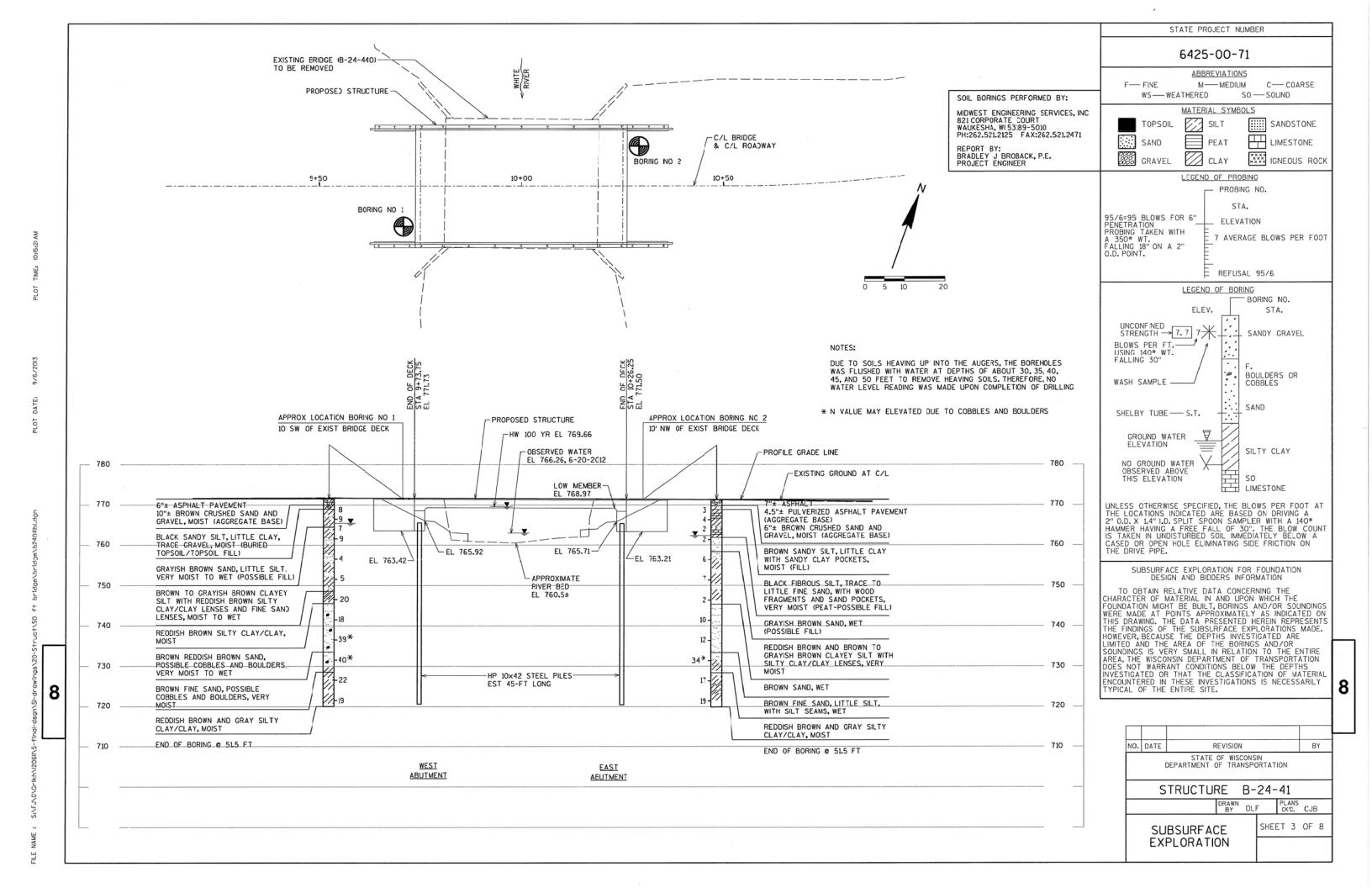
AT ABUTMENTS, ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL UNLESS OTHERWISE NOTED.

FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION :M153 TYPE 1, 2, OR 3 OR AASHTO DESIGNATION :M213.

COAT WITH "PROTECTIVE SURFACE TREATMENT" PER THE STANDARD SPECIFICATIONS AND THE SUPERSTRUCTURE DETAILS SHEET.

FOR EXISTING STRUCTURE SEE PROFILE GRADE LINE THIS SHEET.





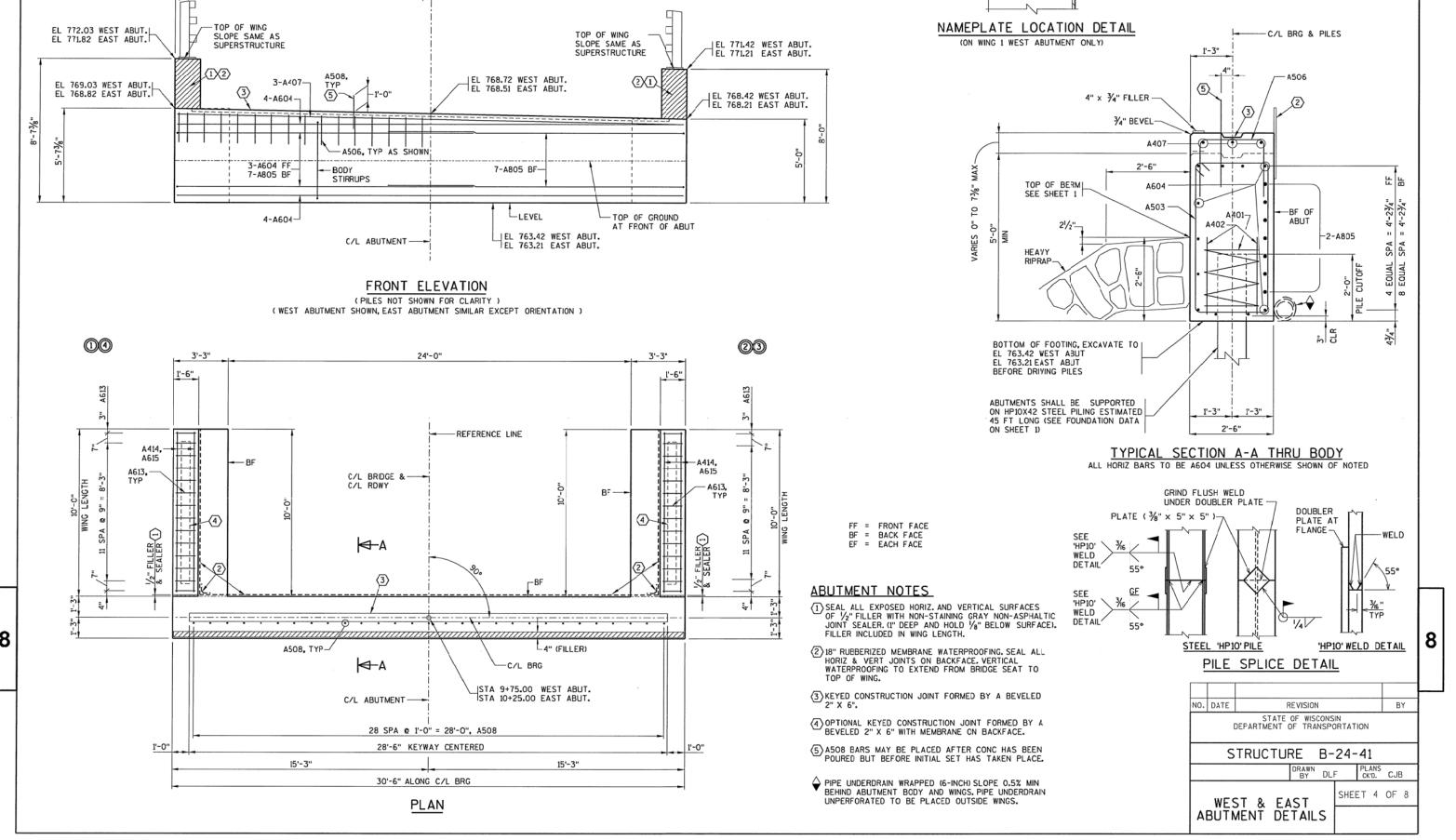


SOUTH SIDE

(1)(4)

~6"





NORTH SIDE

@3

- REFERENCE LINE

A506

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

BRIDGE NAMEPLATE -

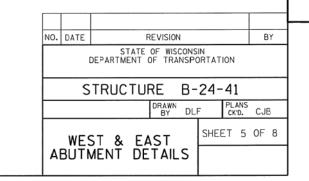
(WEST ABUT ONLY

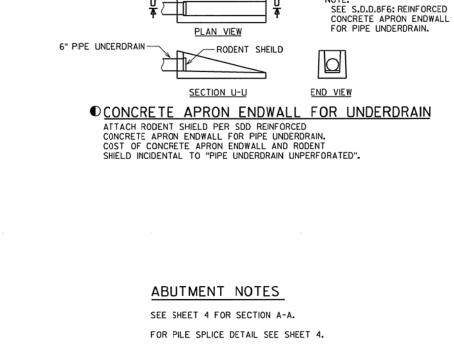
1'-0"

STATE PROJECT NUMBER

6425-00-71

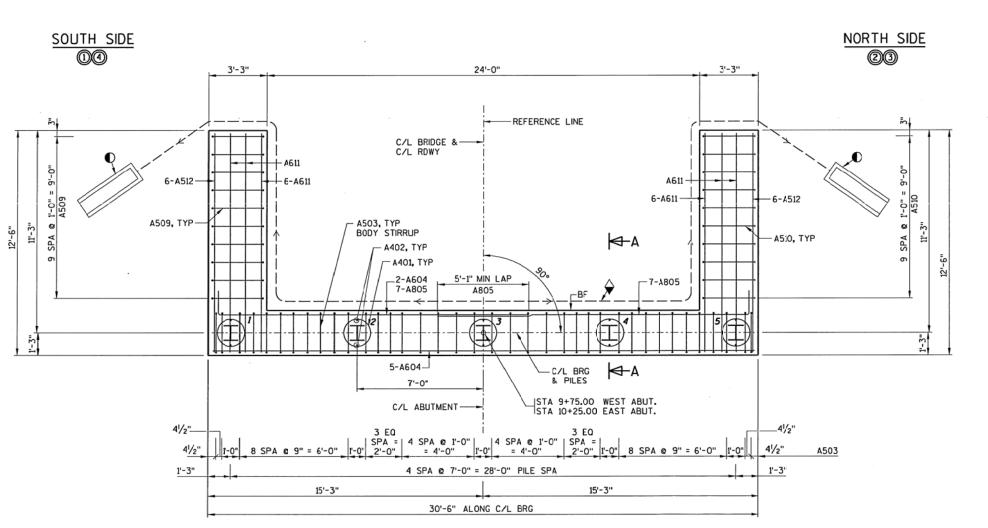




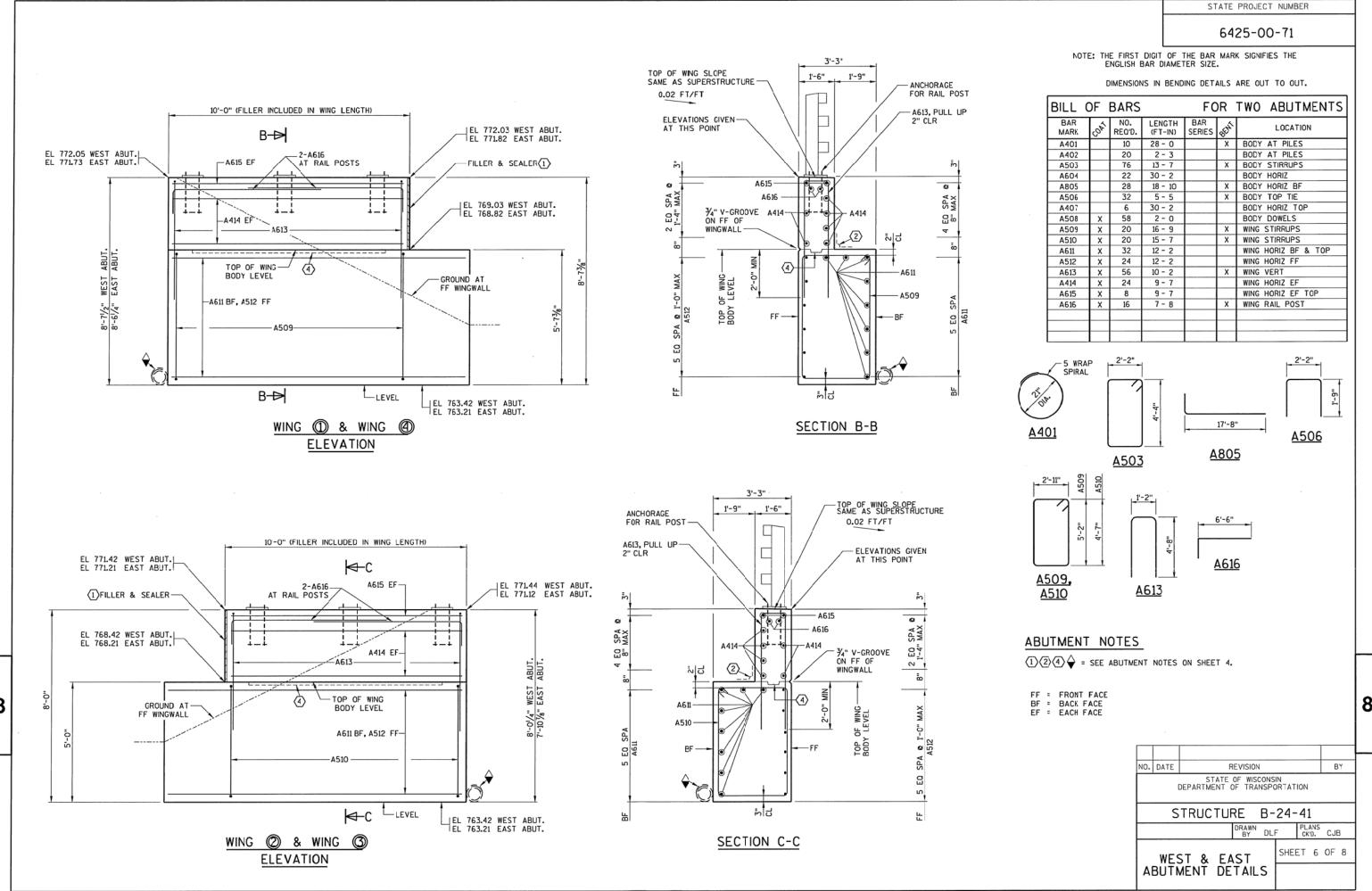


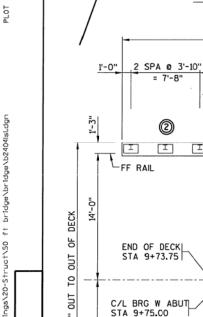
 $\stackrel{ o}{
ightharpoons}$ SEE ABUTMENT NOTES ON SHEET 4.

FF = FRONT FACE BF = BACK FACE EF = EACH FACE



FOOTING LAYOUT





FF RAIL

S504 & S505 @ 1'-0" CRTS -SEE 'PART LONG SECT' THIS SHEET SUPERSTRUCTURE NOTES:

1'-3"

SIDE

FF RAIL

1'-0" RAIL POST SPA

EA SIDE OF BRIDGE

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

TRANSVERSE BARS SHALL BE PLACED PLACED PARALLEL TO THE C/L OF SUBSTRUCTURE UNITS.

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 ON CONTINUOUS BAR CHAIRS APPROXIMATELY 4'-O" CENTERS.

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

→ ¾" V-GROOVE, EXTEND V-GROOVE TO THE FILLET ADJACENT TO THE ABUTMENTS.

☐ COAT WITH "PROTECTIVE SURFACE TREATMENT" PER THE STANDARD SPECIFICATIONS.

FF = FRONT FACE BF = BACK FACE EF = EACH FACE

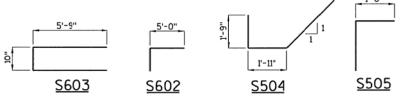
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STATE PROJECT NUMBER

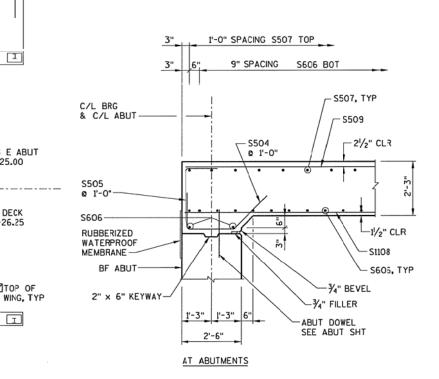
NOTE: THE FIRST ONE OR TWO DIGITS OF THE BAR MARK SIGNIFIES THE ENGLISH BAR DIAMETER SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT.

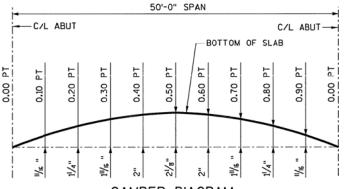
BILL OF BARS SUPERSTRUCTURE									
BAR MARK	COAT	NO. REO'D.	LENGTH (FT-IN)	BAR SERIES	BENT	LOCATION			
S60I	Х	56	6 - 0			RAIL POST			
S602	Х	16	6 - 0		Х	RAIL POST			
S603	Х	36	12 - 0		Х	RAIL POST			
S504	Х	62	6 - 3		X	END OF DECK			
S505	Х	62	3 - 6		Х	END OF DECK			
S606	Х	75	30 - 2			BOT TRANS			
S507	Х	53	30 - 2			TOP TRANS			
S1108	X	61	52 - 2			BOT LONG			
S509	Х	31	52 - 2			TOP LONG			



FINAL TOP OF DECK ELEVATIONS											
	W ABUT	.1	.2	.3	.4	.5	.6	.7	.8	.9	E ABUT
NORTH EDGE OF DECK	771.42	771.41	771.39	771.37	771.36	771.34	771.31	771.29	771.26	771.23	771.20
C/L	771.72	771.71	771.70	771.68	771.66	771.64	771.62	771.59	771.57	771.54	771.51
SOUTH EDGE OF DECK	772.03	772.02	772.00	771.98	771.97	771.95	771.92	771.90	771.87	771.84	771.81

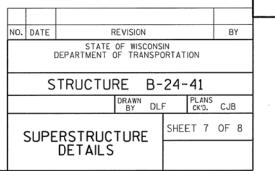


PARTIAL LONGITUDINAL SECTION



CAMBER DIAGRAM

CAMBER SPAN AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION & FUTURE CREEP. CAMBER DOES NOT INCLUDE VERTICAL ROADWAY PROFILE OR ALLOWANCE FOR FORM SETTLEMENT. DEAD LOAD DEFLECTION ONLY EQUALS APPROXIMATELY 1/3 OF CAMBER VALUES SHOWN.



8

DECK PLAN

- INDICATES TOP BAR STEEL REINFORCEMENT — — — INDICATES BOTTOM BAR STEEL REINFORCEMENT

€ S601, TYP

(INT POSTS

ON BRIDGE)

- C/L BRIDGE

30 SPA @ 1'-0" = 30'-0"

60 SPA @ 6" = 30'-0"

TRANSVERSE SECTION

C/L BRIDGE

& C/L RDWY

S606 -

S602, TYP-(EXT POSTS ON BRIDGE)

15'-3"

14'-0"

-S509, TYP

S603 AT RAIL POSTS

- S606

- S1108, TYP

-S507

0.02 FT/FT

11/2" CLR -

52'-6" BACK TO BACK OF ABUTMENTS

50'-0" SPAN 52 SPA @ 1'-0" = 52'-0"

68 SPA @ 9" = 51'-0"

72'-6"

6 SPA @ 6'-6" = 39'-0"

S509 -

10±00

S603, TYP (ALL POSTS

ON BRIDGE)

S1108 -

RAIL POST, TYP-

FF RAIL

TUBULAR STEEL RAILING TYPE M, SEE SHT 8

_2'-10<mark>1/</mark>2"

1'-61/2"

5'-21/2"

-END OF DECK

& C/L ROADWAY

-POINT ON PROFILE

GRADE

15'-3"

14'-0"

0.02 FT/FT

3" S507 TOP

3" S606 BOT

2 SPA @ 3'-10"

(3)

I

IC/L BRG E ABUT

STA 10+25.00

JEND OF DECK

STA 10+26.25

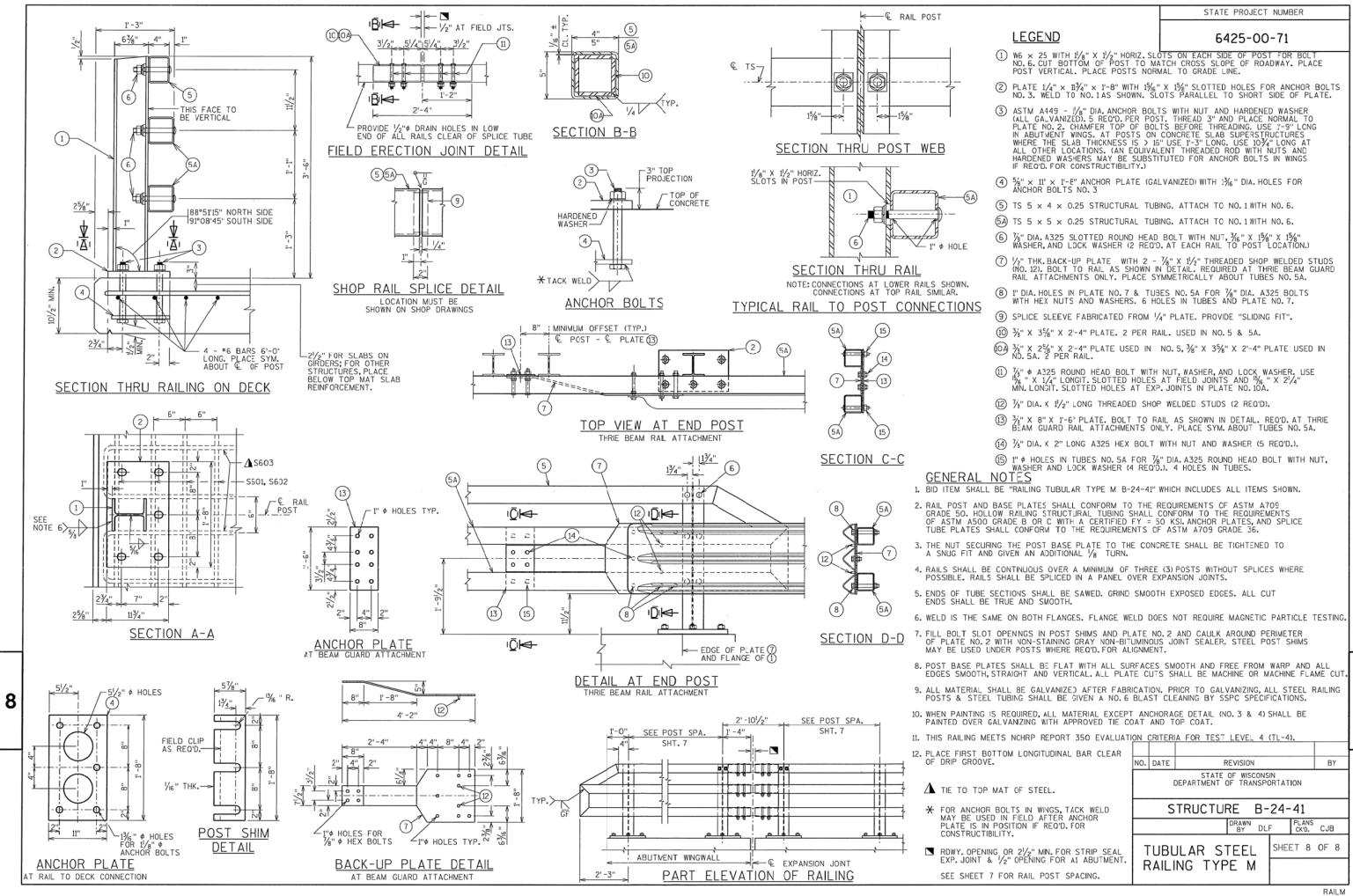
(4)

2'-101/2"

1'-61/2"

END OF DECK-

5'-21/2"



CTH D, GREEN LAKE COUNTY

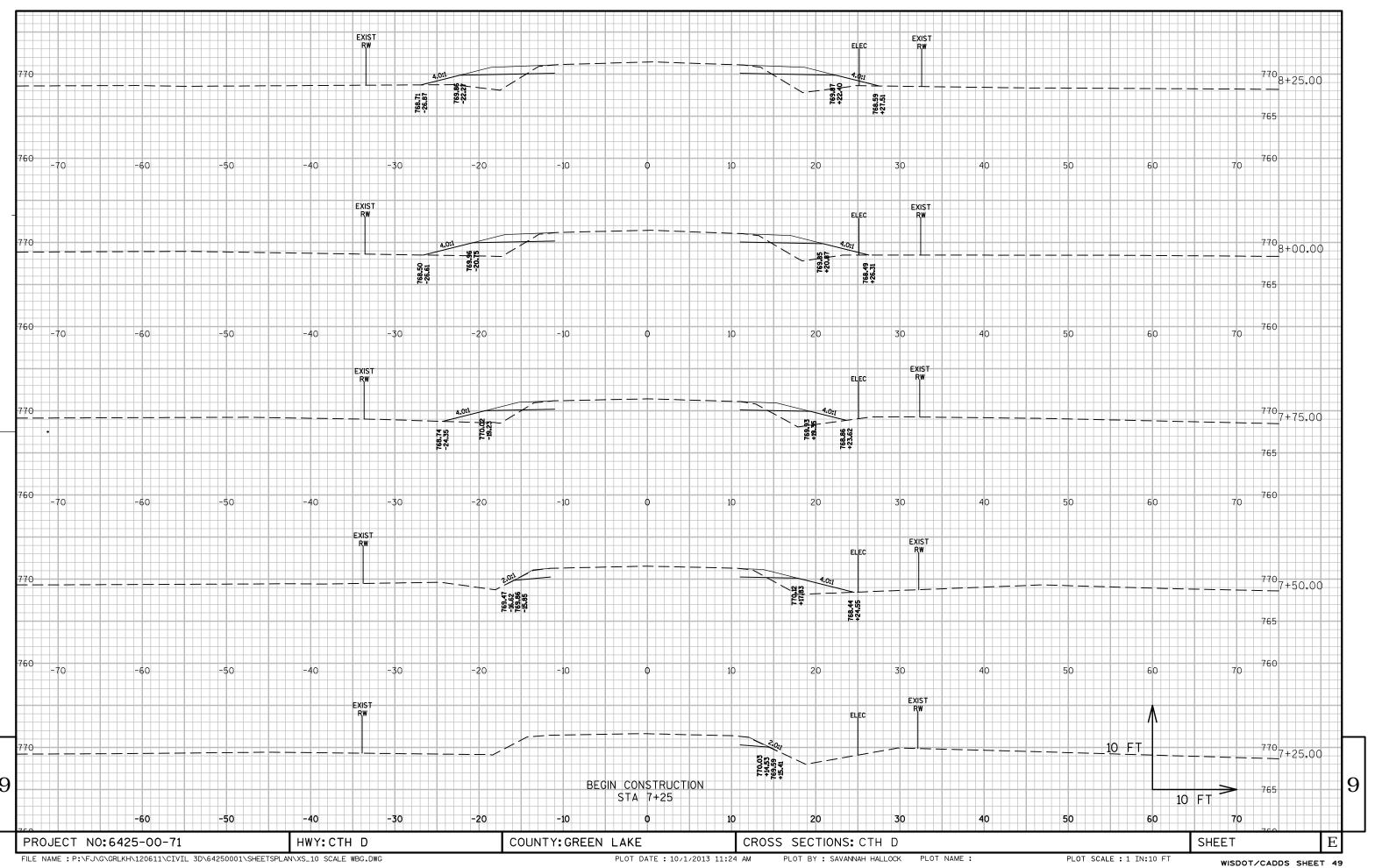
	END AREA		VOL	UME	CUMULATIV	VE VOLUME	MASS HAUL	
STATION	CUT (SF)	FILL (SF)	CUT (CY)	*FILL (CY)	CUT (CY)	FILL (CY)	(CY)	
7+25.000	2.16	0.01	0	0	0	0	0	
7+50.000	5.26	10.1	3.44	6.09	3.44	6.09	-2.65	
7+75.000	4.95	17.7	4.73	16.74	8.17	22.83	-14.66	
8+00.000	4.91	25.46	4.57	25.98	12.74	48.81	-36.07	
8+25.000	5.05	27.8	4.61	32.06	17.35	80.87	-63.52	
8+50.000	27.22	37.78	14.94	39.47	32.29	120.34	-88.05	
8+74.231	25.2	41.1	23.52	46.01	55.81	166.35	-110.54	
8+75.000	25.16	40.92	0.72	1.52	56.53	167.87	-111.34	
8+76.259	25.09	40.64	1.17	2.47	57.7	170.34	-112.64	
8+98.731	25.05	29.28	20.87	37.82	78.57	208.16	-129.59	
9+00.000	25.1	28.43	1.18	1.76	79.75	209.92	-130.17	
9+00.745	25.12	27.94	0.69	1.01	80.44	210.93	-130.49	
9+23.231	26.69	8.49	21.58	19.72	102.02	230.65	-128.63	
9+25.000	26.86	4.59	1.75	0.56	103.77	231.21	-127.44	
9+25.231	26.88	4.5	0.23	0.05	104	231.26	-127.26	
9+50.000	31.88	1.14	26.95	3.36	130.95	234.62	-103.67	
9+73.750	26.54	13.97	25.69	8.64	156.64	243.26	-86.62	
STRUCTURE B-24-0041	0	0	0	0	156.64	243.26	-86.62	
10+26.250	29.63	14.4	0	0	156.64	243.26	-86.62	
10+50.000	24.1	6.25	23.63	10.56	180.27	253.82	-73.55	
10+75.000	19.99	23.71	20.3	18.41	200.57	272.23	-71.66	
10+75.768	19.9	24.58	0.57	0.89	201.14	273.12	-71.98	
10+99.678	20.69	37.73	17.86	37.16	219	310.28	-91.28	
11+00.000	20.74	37.75	0.25	0.59	219.25	310.87	-91.62	
11+23.521	24.84	33	19.78	41.54	239.03	352.41	-113.38	
11+25.000	25.19	31.96	1.37	2.31	240.4	354.72	-114.32	
11+50.000	32.94	6.7	26.86	24.18	267.26	378.9	-111.64	
11+74.248	5.56	1.31	17.36	4.93	284.62	383.83	-99.21	
11+75.000	5.57	1.31	0.15	0.05	284.77	383.88	-99.11	
12+00.000	5.07	1.39	5.13	1.73	289.9	385.61	-95.71	
12+00.443	5.05	1.41	0.08	0.03	289.98	385.64	-95.66	
12+14.546	3.92	0	2.43	0.51	292.41	386.15	-93.74	
12+15.000	0	0	0.78	0	293.19	386.15	-92.96	

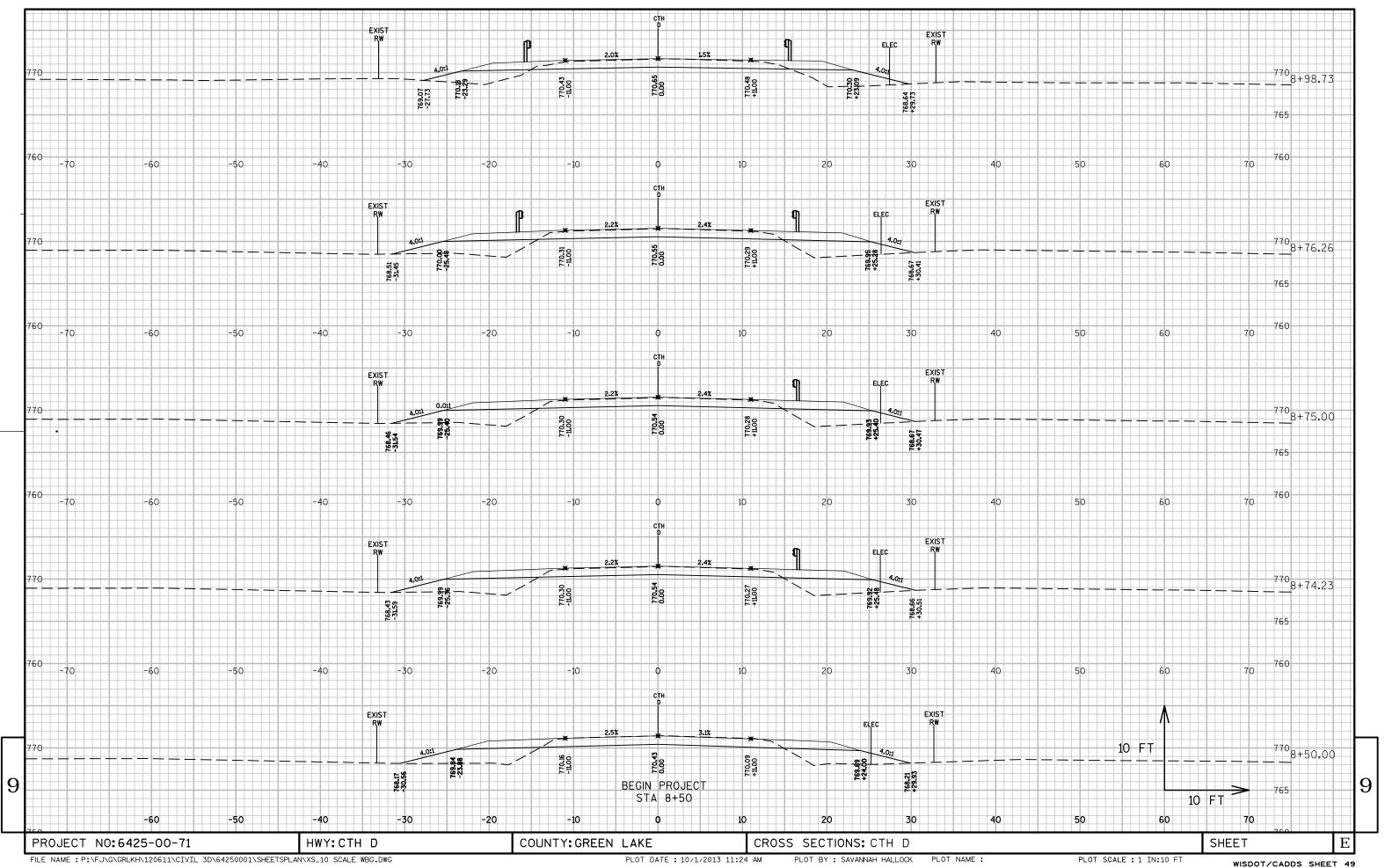
*EXPANDED 30%

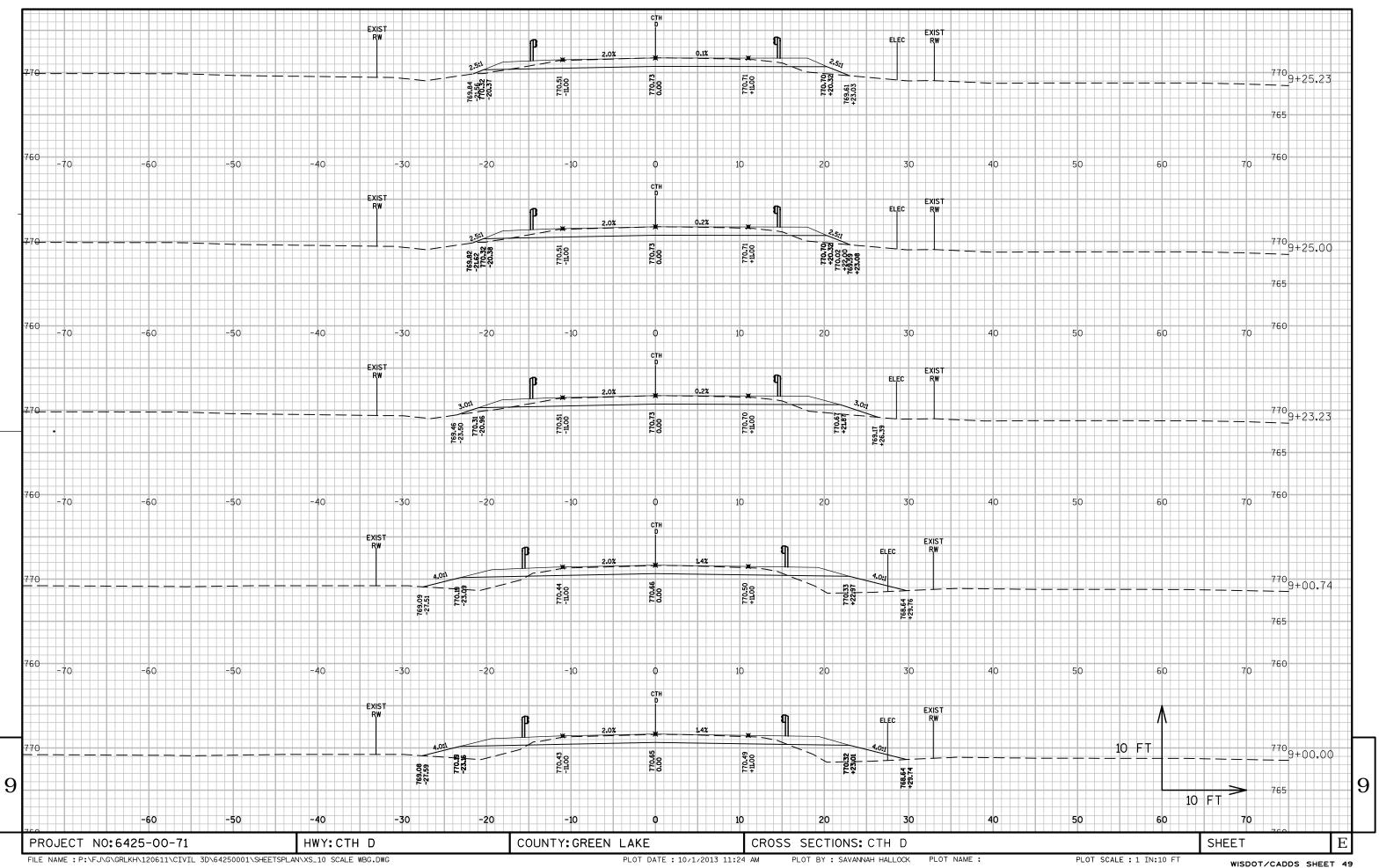
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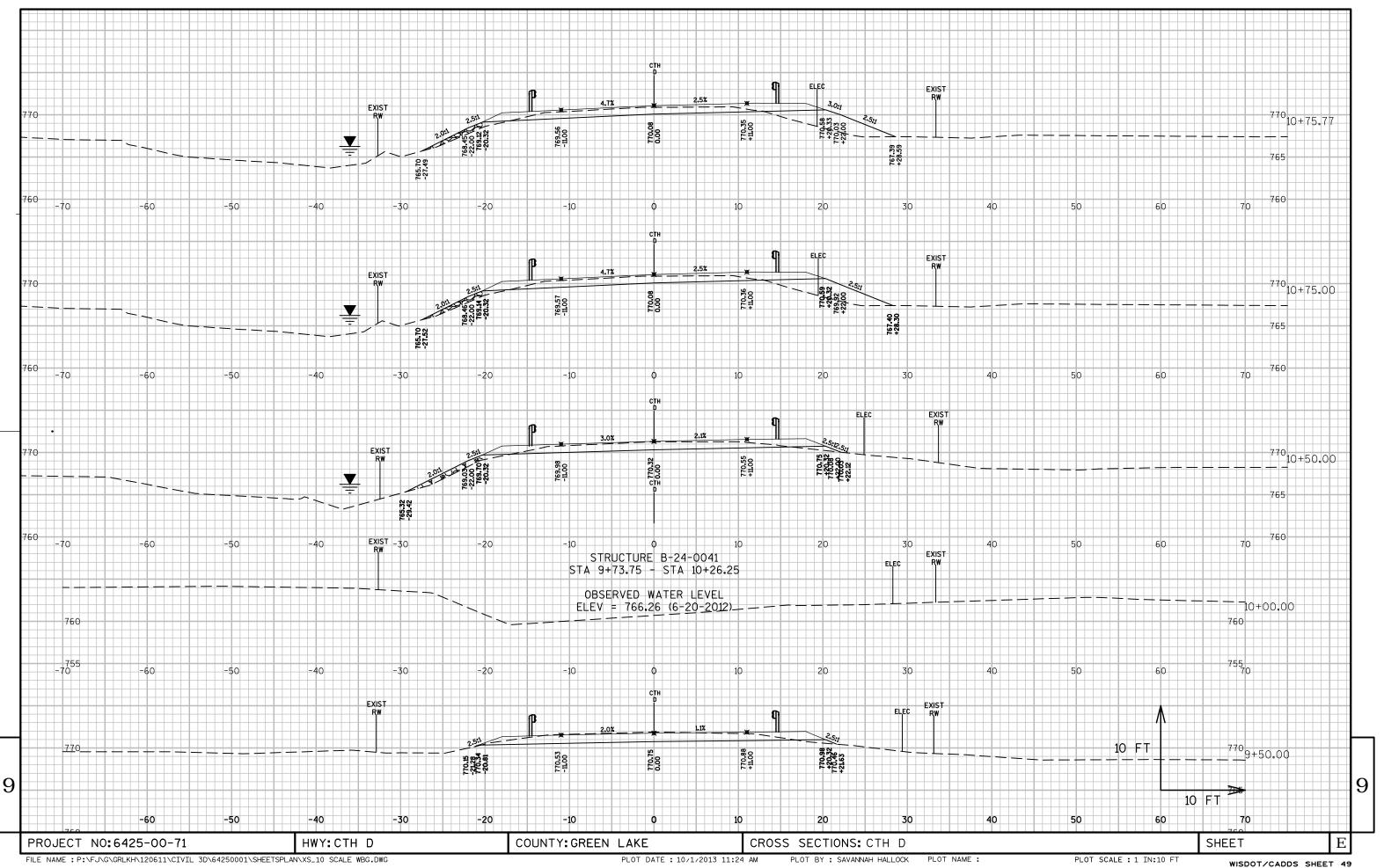
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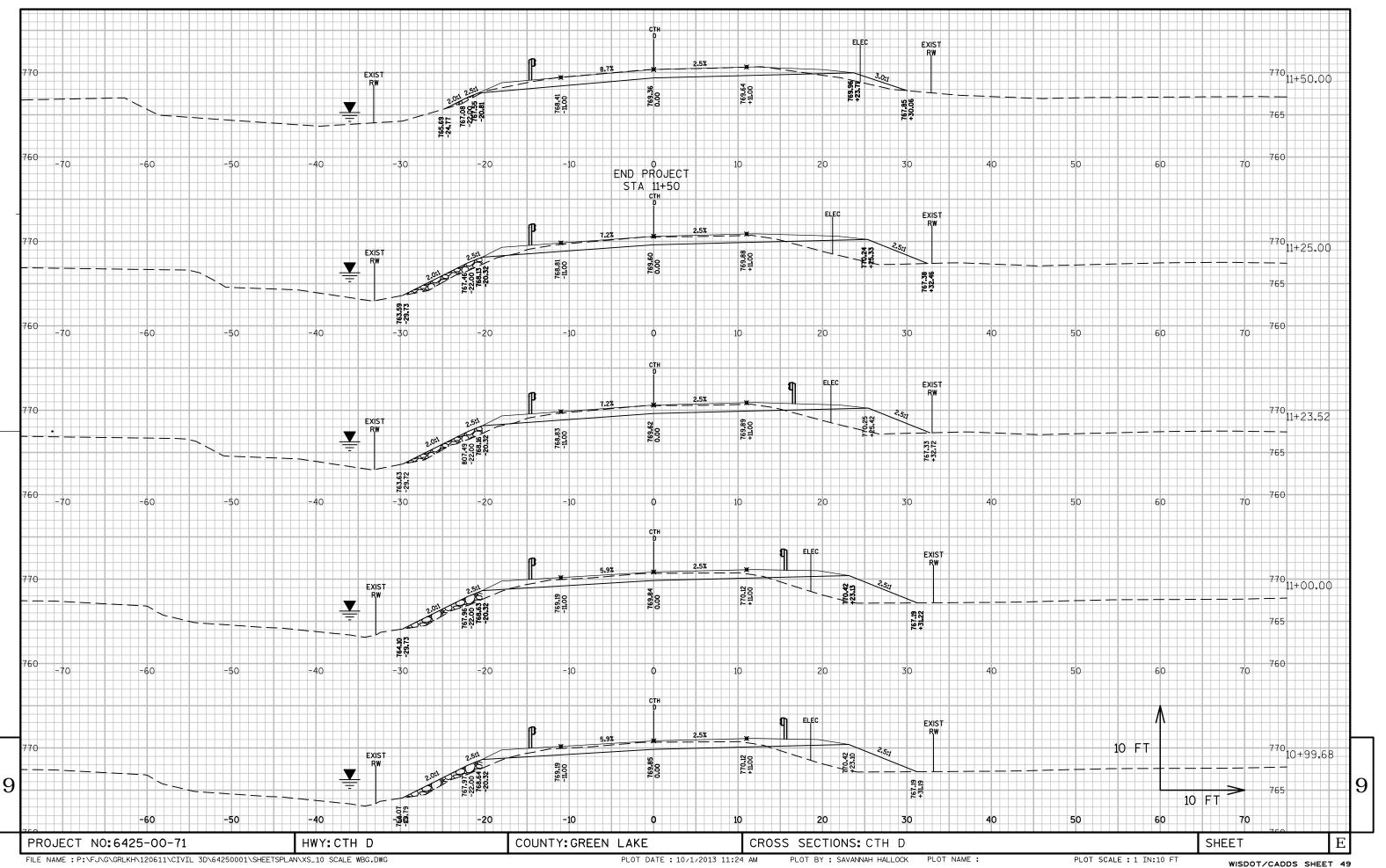
PROJECT NO:6425-00-71 HWY:CTH D COUNTY:GREEN LAKE CROSS SECTIONS: CTH D SHEET **E**

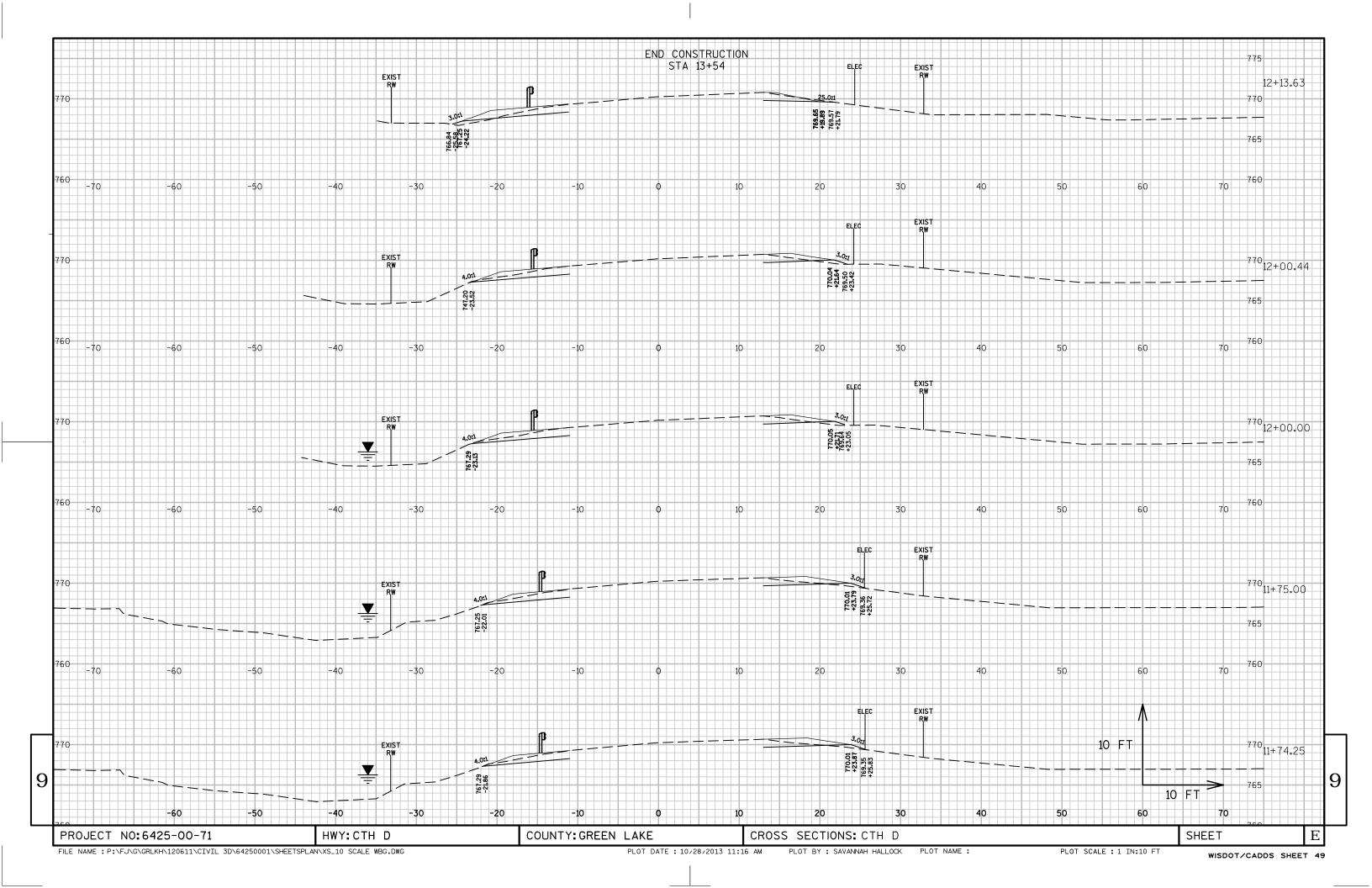












Notes



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