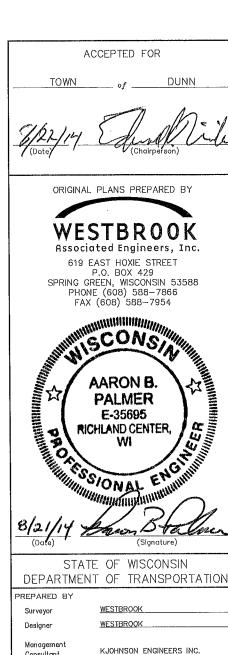
STATE OF WISCONSIN ORDER OF SHEETS TRANSPORTATION DEPARTMENT OF Typical Sections and Details Estimate of Quantities Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Section No. Right of Way Plat Plan and Profile (Includes Erosion Control Plan) Section No. Section No. DYRESON ROAD BRIDGE & APPROACHES Computer Farthwork Data Cross Sections TOWN OF DUNN TOWN ROAD TOTAL SHEETS = 74 DANE COUNTY STATE PROJECT NUMBER 5685-00-73 BEGIN PROJECT STA. 7+90 R-11-E Y=451 294.88 R-10-E (90) X=849 076.30 DANE END PROJECT COUNTY STA. 13+75 DESIGN DESIGNATION A.A.D.T. (2012) 560 A.A.D.T. (2032) (2032) 51 62/38 4.2% T-6-N 25 MPH DESIGN SPEED T-6-N 51,100 CONVENTIONAL SYMBOLS **PROFILE** CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE (To be noted as such) LABEL____ SPECIAL DITCH LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT R-10-E R-11-E UTILITIES REFERENCE LINE ELECTRIC EXISTING CULVERT FIBER OPTIC STRUCTURE P-13-0190 PROPOSED CULVERT (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS LAYOUT 1.0 MI. MARSH AREA UTILITY PEDESTAL -"Coordinates on this plan are referenced to the Wisconsin County Coordinate System (WCCS), Dane County." POWER POLE TOTAL NET LENGTH OF CENTERLINE = 0.111 MILES TELEPHONE POLE WOODED OR SHRUB AREA

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5685-00-73



PLOT SCALE:

STANDARD ABBREVIATIONS

AADT	AVERAGE ANNUAL DAILY TRAFFIC	L	LENGTH OF CURVE	REINF.	REINFORCED
AGG.	AGGREGATE	L.F.	LINEAR FEET	REQ'D.	REQUIRED
B.A.D.	BASE AGGREGATE DENSE	L.H.F.	LEFT HAND FORWARD	RT.	RIGHT
B.M.	BENCH MARK	L.S.	LUMP SUM	R/W	RIGHT-OF-WAY
Ç OR CL	CENTERLINE	LT.	LEFT	RD.	ROAD
CR.	CRUSHED	MAX.	MAXIMUM	RDWY.	ROADWAY
C.T.H.	COUNTY TRUNK HIGHWAY	MIN.	MINIMUM	S.	SOUTH
CWT.	HUNDREDWEIGHT	N.	NORTH	SE	SOUTHEAST
C.Y.	CUBIC YARD	NOR.	NORMAL	SHRK.	SHRINKAGE
D.H.	DOUBLE HEADED	PAV'T.	PAVEMENT	S.R.	SIDE ROAD
D.H.V.	DESIGN HOURLY VOLUME	P.C.	POINT OF CURVE	STD.	STANDARD
DIR.	DIRECTED	P.I.	POINT OF INTERSECTION	S.T.H.	STATE TRUNK HIGHWAY
E.	EAST	P.E.	PRIVATE ENTRANCE	STA.	STATION
COR.	CORNER	P.K.	PARKER-KALON NAIL	S.Y.	SQUARE YARD
EL. OR ELEV.	ELEVATION	P OR PL	PROPERTY LINE	Т	TANGENT LENGTH OF CURVE
F.E.	FIELD ENTRANCE	P.P.	POWER POLE	ΤĹ	TRANSIT LINE
FT.	FOOT (FEET)	PROJ.	PROJECT	V	DESIGN SPEED
GAL.	GALLON	P.T.	POINT OF TANGENCY	V.C.	VERTICAL CURVE
H.W.	HIGH WATER	PVMT.	PAVEMENT	VAR.	VARIABLE
IN.	INCHES	R.	RADIUS	W.	WEST
K	SIGHT DISTANCE	R.R.	RAILROAD		

CONSULTANT LIAISON

WESTBROOK ASSOCIATED ENGINEERS, INC. 619 E. HOXIE STREET SPRING GREEN, WI 53588

ATTN: Aaron Palmer, P.E. (608) 588-7866 apalmer@westbrookeng.com

WisDNR LIAISON

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711

ATTN: ERIC HEGGELUND (608) 275-3301 eric.heggelund@wisconsin.gov

TOWNSHIP LIAISON

TOWN OF DUNN 4156 CTH B MCFARLAND, WI 53558

ATTN: ED MINIHAN, CHAIRMAN (608) 838-6432 Edmond.Minihan@gmail.com

UTILITIES

ALLIANT ENERGY (GAS & ELECTRIC) COPORATE HEADQUARTERS 4902 NORTH BILTMORE LANE P.O. BOX 77007 MADISON, WI 53707

ATTN: JASON HOGAN (608) 458-4871 jasonhogan@alliantenergy.com

FRONTIER COMMUNITCATIONS 100 COMMUNICATIONS DRIVE SUN PRAIRIE, WI 53590

ATTN: DANA M. GILLETT (608) 837-1605 dana.gillett@ftr.com

WINDSTREAM 13935 BISHOPS DRIVE BROOKFIELD, WI 53005

ATTN: JIM KOSTUCH (262) 792-7938 Jamés.Kostuch@windstream.com

GENERAL NOTES

MULCH ALL SLOPES AS DIRECTED BY THE ENGINEER.

SILT FENCE TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SILT FENCE SHALL BE IN PLACE PRIOR

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE DRIVING LANES AND THE SHOULDERS, ARE TO BE FERTILIZED, SEEDED AND MULCHED

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

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

BEARINGS ORIENTED TO THE WISCONSIN COUNTY COORDINATES SYSTEM.

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

SALVAGED TOPSOIL & MULCH SHALL BE PLACED ON THE SLOPES 5.0' BEYOND THE SLOPE INTERCEPT WITH THE ORIGINAL GROUND AS SHOWN ON THE CROSS SECTIONS AND AS DIRECTED BY THE ENGINEER IN THE

THE DEPARTMENT WILL FURNISH A BENCHMARK MONUMENT TO BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

WETLANDS EXIST WITHIN THE PROJECT LIMITS. DO NOT DISTURB ANY WETLANDS OUTSIDE THE SLOPE INTERCEPTS.

PROPERTY LINES AS SHOWN ON THE PLANS ARE APPROXIMATE.

CONTROL IS REFERENCED TO A "LOWER YAHARA RIVER CONTROL SURVEY" BY AYRES ASSOCIATES IN 2002. DANE COUNTY COORDINATES AND NAVD88 BENCHMARK WERE PLACED ON THE NORTHEAST ABUTMENT AT THAT TIME. ROTATION PER STATIC GPS COLLECTION OF "DUNN C. GPS" AND CP1/CP4 ON SITE.

THE ASPHALTIC SURFACE SHALL BE PLACED IN TWO LIFTS CONSISTING OF A 2.25 INCH LOWER LAYER AND A 1.75 INCH UPPER LAYER.

RUNOFF COEFFICIENT TABLE

HYDROLOGIC SOIL GROUP												
			A			В	С		D			
			RANGE CENT)		SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)			
LAND USE	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:			•									
ASPHALT	.70 – .95											
CONCRETE		.80 – .95										
BRICK	.70 – .80											
DRIVES,WALKS	.75 – .85											
	ROOFS .75 – .95											
GRAVEL ROADS, SHOULDERS .4060												

TOTAL PROJECT AREA = 0.94 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.62 ACRES



** DENOTES UTILITY IS NOT MEMBER OF DIGGERS HOTLINE

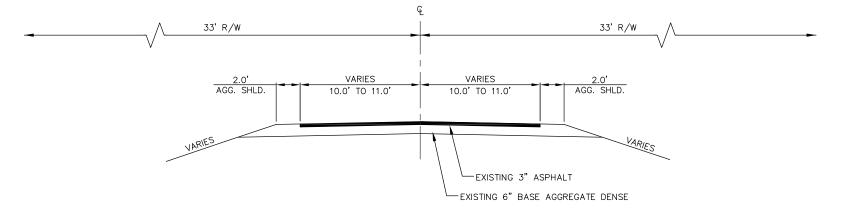
PROJECT NO: 5685-00-73 HWY: DYRESON ROAD COUNTY: DANE

UTILITIES, CONTACTS, AND GENERAL NOTES

PLOT BY: luke0

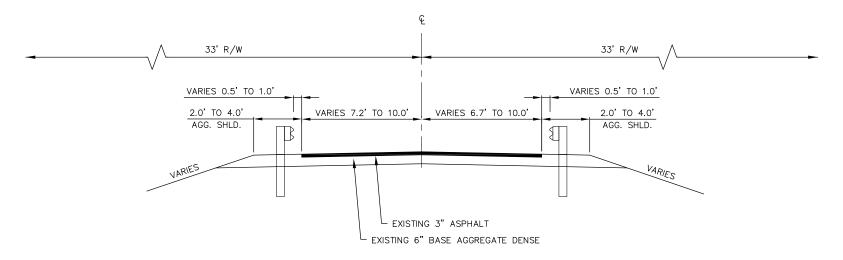
SHEET





TYPICAL EXISTING SECTION

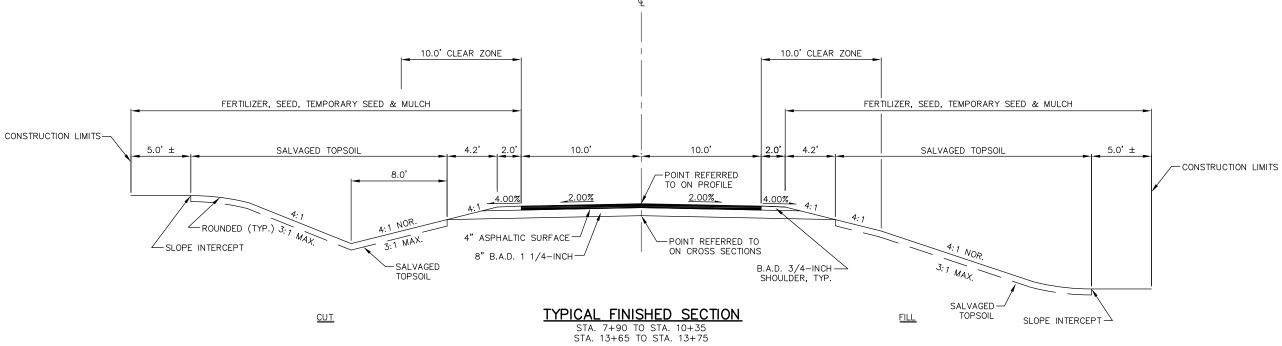
STA. 7+90 TO STA. 10+35 STA. 13+65 TO ATA. 13+75

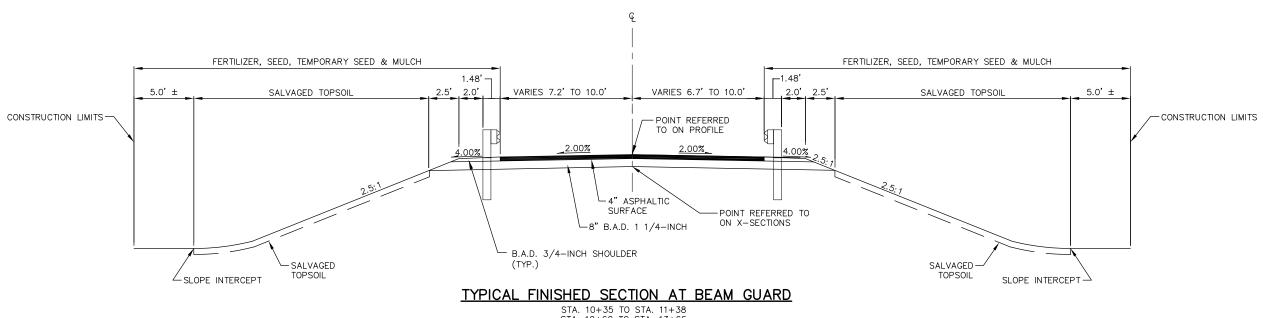


TYPICAL EXISTING SECTION

STA. 10+35 TO STA. 11+38 STA. 12+62 TO STA. 13+65







PROJECT NO: 5685-00-73 HWY: DYRESON ROAD COUNTY: DANE TYPICAL SECTIONS SHEET E PLOT SCALE:

2

FERTILIZER, SEED, TEMPORARY SEED & MULCH

2.2' SALVAGED TOPSOIL

5.0' ±

CONSTRUCTION LIMITS

SLOPE INTERCEPT

SALVAGED -TOPSOIL

TYPICAL CROSS SECTION FOR PRIVATE ENTRANCE

12.0'

- 6" BASE AGGREGATE DENSE 1 1/4-INCH

2.00%

SUBGRADE-

PROJECT NO: 5685-00-73 HWY: DYRESON ROAD COUNTY: DANE TYPICAL SECTIONS SHEET E

CONSTRUCTION LIMITS

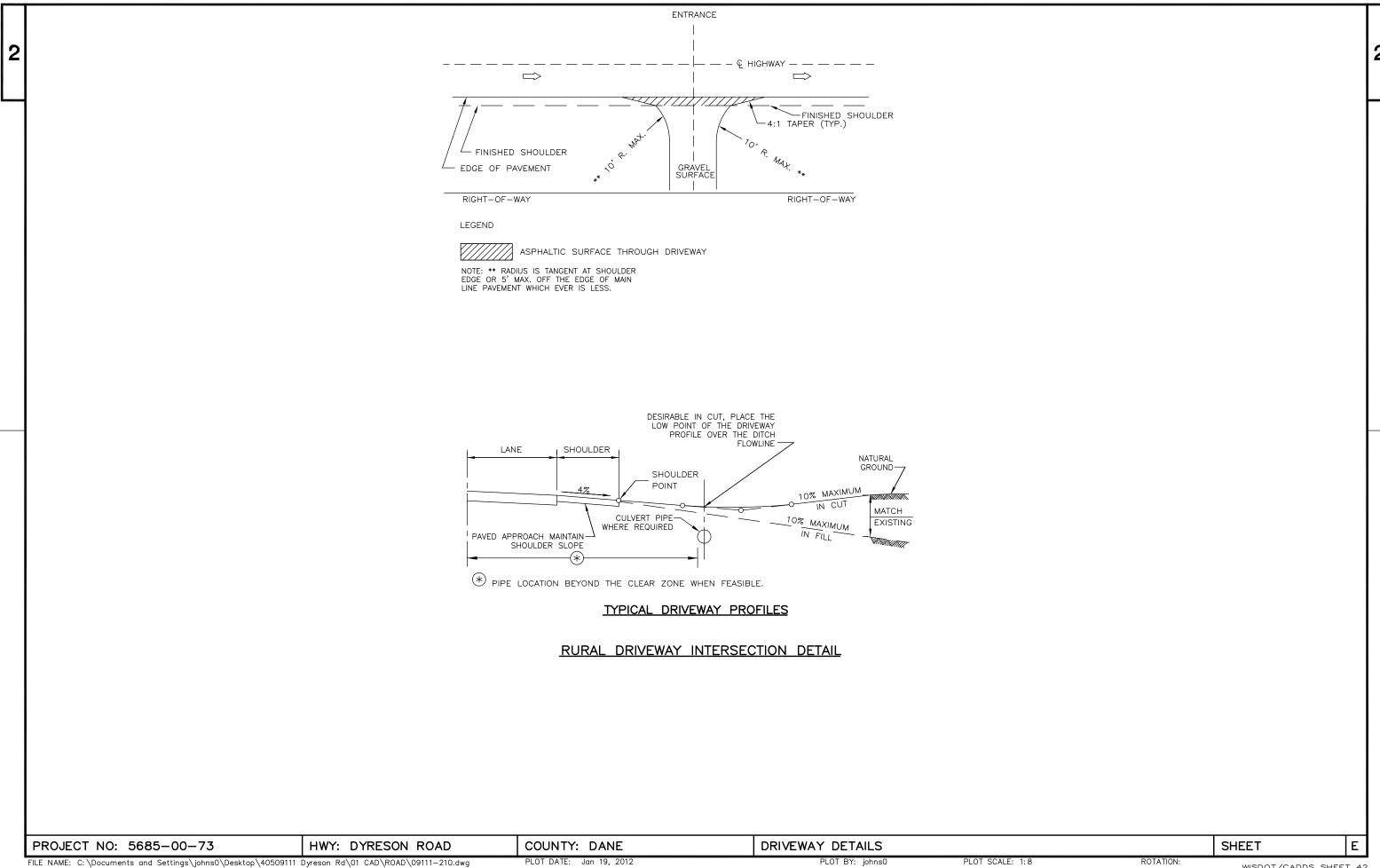
FERTILIZER, SEED, TEMPORARY SEED & MULCH

SALVAGED TOPSOIL

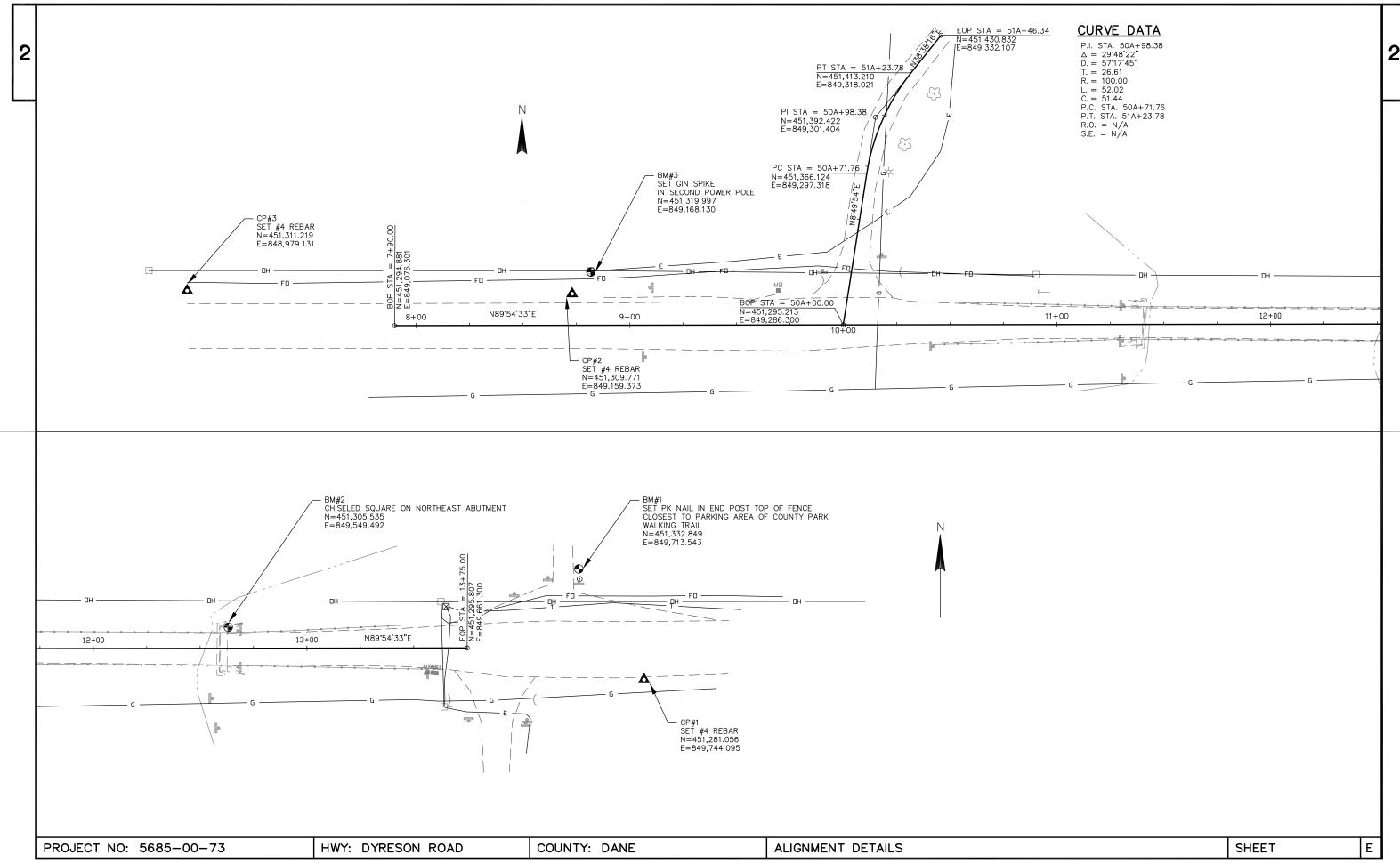
-SALVAGED TOPSOIL

5.0' ±

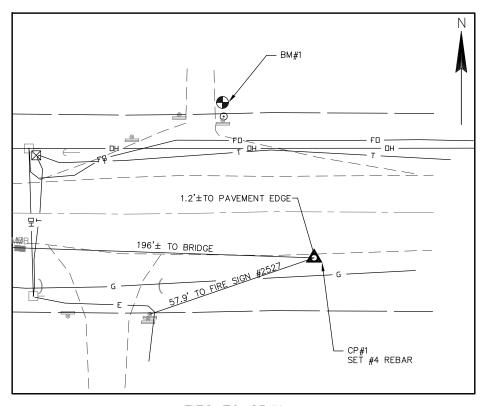
∠SLOPE INTERCEPT



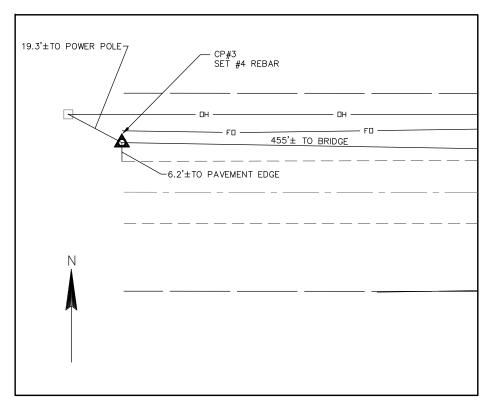
WISDOT/CADDS SHEET 42



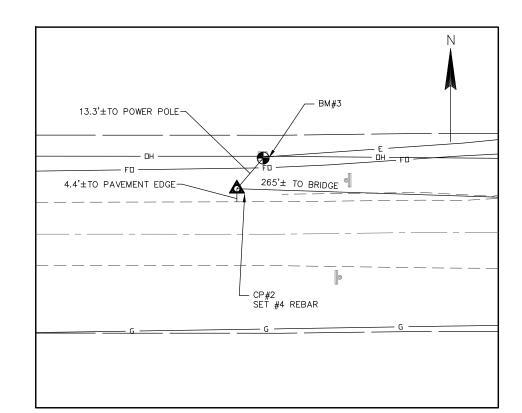




TIES TO CP#1

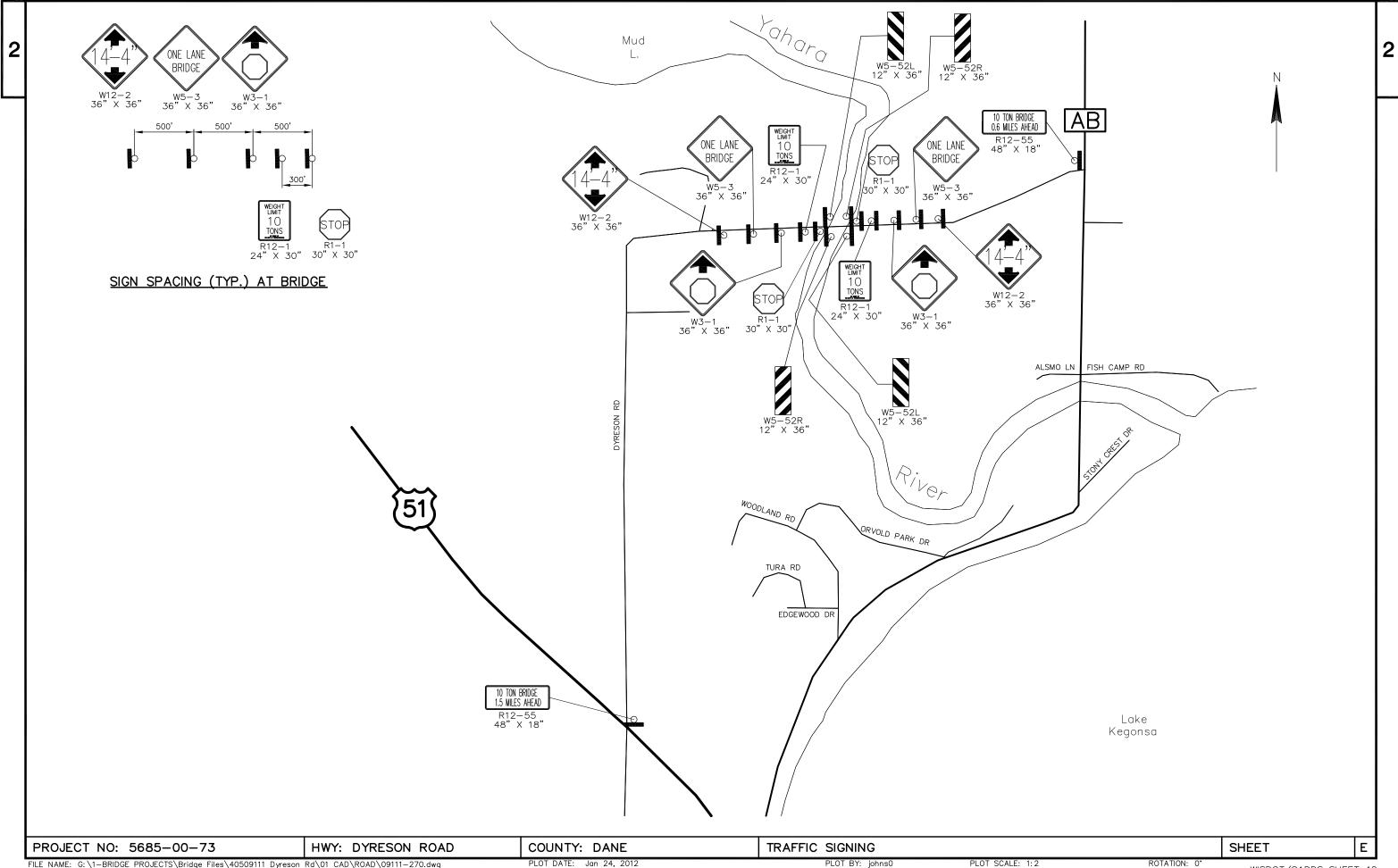


TIES TO CP#3



TIES TO CP#2

PROJECT NO: 5685-00-73 HWY: DYRESON ROAD COUNTY: DANE CONTROL TIES SHEET E



DATE 24	INOV14	E S	TIMAT	E O F Q U A N	
LI NE NUMBER		ITEM DESCRIPTION	UNI T	TOTAL	5685-00-73 QUANTI TY
0010	201. 0105	CLEARI NG GRUBBI NG	STA STA	4. 000 4. 000	4. 000 4. 000
0020 0030	201. 0205 203. 0100	REMOVING SMALL PIPE CULVERTS	EACH	1. 000	1. 000
0040		REMOVING OLD STRUCTURE OVER WATERWAY	LS	1. 000	1. 000
0050	204. 0165	WITH MINIMAL DEBRIS (STATION) 01. 12+00 REMOVING GUARDRAIL	LF	356. 000	356. 000
0060	205. 0100	EXCAVATION COMMON	CY	223. 000	223. 000
0070	206. 1000	EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 01. P-13-0190	LS	1. 000	1. 000
0800	208. 0100	BORROW	CY	665. 000	665. 000
0090 0100	210. 0100 213. 0100	BACKFILL STRUCTURE FINISHING ROADWAY (PROJECT) 01.	CY EACH	102. 000 1. 000	102. 000 1. 000
2.00	2.3.0700	5685-00-73	2.1011	1. 000	1. 000
0110	305. 0110	BASE AGGREGATE DENSE 3/4-INCH	TON	90.000	90.000
0120 0130	305. 0120 455. 0605	BASE AGGREGATE DENSE 1 1/4-INCH TACK COAT	TON GAL	1, 070. 000 80. 000	1, 070. 000 80. 000
0140	465. 0105	ASPHALTIC SURFACE	TON	290. 000	290. 000
0150	502. 0100	CONCRETE MASONRY BRIDGES	CY	20. 000	20. 000
0160	502. 5005	MASONRY ANCHORS TYPE L NO. 5 BARS	EACH	12. 000	12. 000
0170	502. 5010	MASONRY ANCHORS TYPE L NO. 6 BARS	EACH	20.000	20. 000
0180	505. 0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	2, 310. 000	2, 310. 000
0190	507. 0200	TREATED LUMBER AND TIMBER	MBM	22. 000	22. 000
0200	516. 0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	8. 000	8. 000
0210	517. 1800. S	STRUCTURE REPAINTING RECYCLED ABRASIVE	LS	1. 000	1. 000
0220	517. 4500. S	(STRUCTURE) 01. P-13-0190 NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS	LS	1. 000	1. 000
0230	517 6001 9	(STRUCTURE) 01. P-13-0190 PORTABLE DECONTAMINATION FACILITY	EACH	1. 000	1. 000
0230	520. 0124	CULVERT PIPE CLASS III 24-INCH	LF	34. 000	34. 000
0250	520. 1024	APRON ENDWALLS FOR CULVERT PIPE 24-INCH	EACH	2. 000	2. 000
0260	606. 0300	RI PRAP HEAVY	СҮ	65. 000	65. 000
0270	612. 0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	160.000	160. 000
0280 0290	614. 0200 614. 0305	STEEL THRIE BEAM STRUCTURE APPROACH STEEL PLATE BEAM GUARD CLASS A	LF LF	84. 000 128. 000	84. 000 128. 000
0300	614. 0305	STEEL PLATE BEAM GUARD ENERGY ABSORBING	EACH	4. 000	4. 000
		TERMI NAL			· · · · ·
0310	619. 1000	MOBI LI ZATI ON	EACH	1. 000	1. 000
0320	625.0500	SALVAGED TOPSOIL **P**	SY	1, 490. 000	1, 490. 000
0330	627. 0200	MULCHING **P**	SY	1, 720. 000	1, 720. 000
0340 0350	628. 1504 628. 1520	SILT FENCE SILT FENCE MAINTENANCE	LF LF	1, 180. 000 2, 360. 000	1, 180. 000 2, 360. 000
0360	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	1. 000	1. 000
0360	628. 1905	MOBILIZATIONS EROSION CONTROL MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	1. 000	1. 000
0380	628. 2023	EROSION MAT CLASS II TYPE B	SY	800.000	800.000
0390 0400	628. 7504 629. 0210	TEMPORARY DITCH CHECKS FERTILIZER TYPE B **P**	LF CWT	75. 000 2. 000	75. 000 2. 000
0410	630. 0120	SEEDING MIXTURE NO. 20 **P**	LB	85. 000	85. 000
0410	630. 0120	SEEDING MIXTURE NO. 20 **P** SEEDING TEMPORARY **P**	LB LB	85. 000 85. 000	85. 000 85. 000
0430	634.0612	POSTS WOOD 4X6-INCH X 12-FT	EACH	18. 000	18. 000
0440 0450	637. 2210 637. 2230	SIGNS TYPE II REFLECTIVE H SIGNS TYPE II REFLECTIVE F	SF SF	42. 000 66. 000	42. 000 66. 000
0460 0470	638. 2102 638. 2602	MOVING SIGNS TYPE II REMOVING SIGNS TYPE II	EACH EACH	3. 000 6. 000	3. 000 6. 000
0470	030. 2002	NEWDVING SIGNS HIFE H	LACII	0.000	0.000

DATE 241 LINE	NOV14	E S T	IMAT	E O F Q U A N	T I T I E S 5685-00-73	
	I TEM 638. 3000	ITEM DESCRIPTION REMOVING SMALL SIGN SUPPORTS	UNI T EACH	TOTAL 6, 000	QUANTI TY 6, 000	
0490	638. 4000	MOVING SMALL SIGN SUPPORTS	EACH	3. 000	3. 000	
0500	642. 5001	FIELD OFFICE TYPE B	EACH	1. 000	1. 000	
0510	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 5685-00-73	EACH	1. 000	1. 000	 _
0520	643. 0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	2, 052. 000	2, 052. 000	
0530	643. 0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	3, 192. 000	3, 192. 000	
0540	643.0900	TRAFFIC CONTROL SIGNS	DAY	1, 824. 000	1, 824. 000	
0550	645. 0120	GEOTEXTILE FABRIC TYPE HR	SY	140. 000	140. 000	
0560	650. 4500	CONSTRUCTION STAKING SUBGRADE	LF	586. 000	586. 000	_
0570	650. 5000	CONSTRUCTION STAKING BASE	LF	586.000	586.000	
0580	650.6000	CONSTRUCTION STAKING PIPE CULVERTS	EACH	1.000	1. 000	
0590	650. 6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. P-13-0190	LS	1. 000	1. 000	
0600	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 5685-00-73	LS	1. 000	1. 000	
0610	650. 9920	CONSTRUCTION STAKING SLOPE STAKES	LF	586. 000	586. 000	_
0620	690. 0150	SAWING ASPHALT	LF	43.000	43.000	
0630	715. 0502	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	120. 000	120. 000	
0640	SPV. 0085	SPECIAL 01. STRUCTURAL STEEL HS GALVANIZED & PAINTED	LB	14, 800. 000	14, 800. 000	

CLEARING AND GRUBBING

STATION — STATION	LOCATION	201.0105 CLEARING (STA)	201.0205 GRUBBING (STA)
7+90.00 - 11+38.16	MAINLINE	3	3
12+62.16 - 13+75.00	MAINLINE	1	1
	TOTALS	4	4

REMOVING SMALL CULVERT PIPES

STATION	LOCATION	DIA.	203.0100 (EACH)
50A+10	P.E.	18"	1
		TOTALS	1

REMOVING GUARDRAIL

				204.0165
STATION	- STATION	LOCATIO	N	(LF)
10+42.00	- 11+38.00	MAINLINE,	RT.	96
10+54.00	-11+38.00	MAINLINE,	LT.	84
12+62.00	-13+44.00	MAINLINE,	LT.	82
12+62.00	- 13+56.00	MAINLINE,	RT.	94
		TOTALS		356

BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0110 ¾-INCH (TON)	305.0120 1¼-INCH BASE (TON)
7+90.00 - 11+38.16	MAINLINE	68	740
12+62.16 - 13+75.00	MAINLINE	22	240
50A+00.00 - 51A+25.00	P.E.		90
_	TOTALS	90	1070

ASPHALTIC ITEMS

	STATION — STATION	LOCATION	455.0605 TACK COAT (GAL)	465.0105 ASPHALTIC SURFACE (TON)
-	7+90.00 - 11+38.16 12+62.16 - 13+75.00	MAINLINE MAINLINE	50 30	205 85
		TOTALS	80	290

CULVERT PIPES

STATION	LOCATION	520.0124 CULVERT PIPE CLASS III 24-INCH (LF)	520.1024 APRON ENDWALLS FOR CULVERT PIPE 24-INCH (EA)	650.6000 CONSTRUCTION STAKING PIPE CULVERTS (EA)
50A+25	P.E.	34	2	1
	TOTALS	34	2	1

MINIMUM	PIPE	THICKNESS:
STEEL	_ 0.	.0064"
ALUMINUM	1 0.	.075"

STEEL THRIE BEAM STRUCTURE APPROACH

STATION - STATION	LOCATION	614.0200 (<u>LF)</u>
11+17.16 - 11+38.16 11+17.16 - 11+38.16 12+62.16 - 12+83.16 12+62.16 - 12+83.16	MAINLINE, RT MAINLINE, LT MAINLINE, RT MAINLINE, LT	21 21 21 21
	тот	AL 84

STEEL PLATE BEAM GUARD, CLASS A

<u>STATION — STATION</u>	LOCATION	614.030 <u>(LF)</u>
10+85.00 - 11+17.16 10+85.00 - 11+17.16 12+83.16 - 13+15.00 12+83.16 - 13+15.00	MAINLINE, RT MAINLINE, LT MAINLINE, RT MAINLINE, LT	32 32 32 32
	TO:	TAI 120

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATION - STATION	LOCATION	614.0370 (EACH)
10+35.00 - 10+85.00 10+35.00 - 10+85.00 13+15.00 - 13+65.00 13+05.00 - 13+65.00	MAINLINE, RT MAINLINE, LT MAINLINE, RT MAINLINE, LT	1 1 1
		4

FINISHING ITEMS

		P	**P**	**P**	**P**	**P**
·	TOTALS	1490	1720	2.0	85	85
	UNDISTRIBUTED		230	0.5	16	16
50A+00.00 - 51A+46.34	P.E.	360	360	0.1	11	11
12+62.16 - 13+75.00	MAINLINE	161	411	0.3	11	11
7+90.00 - 11+38.16	MAINLINE	969	969	1.1	47	47
STATION - STATION	LOCATION	625.0500 SALVAGED TOPSOIL (SY)	627.0200 MULCHING (SY)	629.0210 FERTILIZER TYPE B (CWT)	630.0120 SEEDING MIXTURE NO. 20 (LB)	630.0200 SEEDING TEMPORARY (LB)

^{**}P**=PAY PLAN QUANTITY

637.2210

EROSION CONTROL ITEMS

STATION - STATION	LOCATION	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	628.7504 TEMPORARY DITCH CHECKS (LF)	628.1905 MOBILIZATIONS EROSION CONTROL (EACH)	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL (EACH)	628.2023 EROSION MAT CLASS II TYPE B (SY)
7+90.00 - 11+38.16	MAINLINE	685	1370		0.5	0.5	525
12+62.16 - 13+75.00	MAINLINE	245	490		0.5	0.5	205
50A+00.00 - 51A+46.34	P.E.	250	500				
	UNDISTRIBUTED			75			70
	TOTALS	1180	2360	75	1	1	800

POSTS WOOD 4x6-INCH X 12 FT

LOCATION	634.0612 (EACH)
4 CORNERS OF BRIDGE	4
INTESECTION WITH STH 51, 16 FT RT	2
-4+07, 16 FT RT	1
0+93, 16 FT RT	1
5+93, 16 FT RT	1
7+93, 16 FT RT	1
10+93, 16 FT RT	1
13+65, 16 FT LT	1
16+65, 16 FT LT	1
18+65, 16 FT LT	1
23+65. 16 FT LT	i
28+65. 16 FT LT	i
NTERSECTION WITH CTH AB, 16 FT LT	2
TOTAI —	18

<u>SIGNS</u>

		TYPE II	TYPE II
		REFLECTIVE H	REFLECTIVE F
LOCATION	TYPE	(SF)	(SF)
4 CORNERS OF BRIDGE	W5-52, LT & RT		12
INTERSECTION WITH STH 51	R12-55, 16 FT RT	9	
-4+07	W12-2, 16 FT RT		9
0+93	W5-3, 16 FT RT		9
5+93	W1-1, 16 FT RT		9
7+93	R12-1, 16 FT RT	5	
10+93	R1-1, 16 FT RT	7	
13+65	R1-1, 16 FT LT	7	
16+65	R12-1, 16 FT LT	5	
18+65	W1-1, 16 FT LT		9
23+65	W5-3, 16 FT LT		9 9
28+65	W12-2, 16 FT LT		9
INTERSECTION WITH CTH AB1	R12-55, 16 FT LT	9	
	TOTAL	42	

MOVING SIGNS TYPE II MOVING SMALL SIGN SUPPORTS

DESCRIPTION	LOCATION	638.2102 (EACH)	638.4000 (EACH)
35 MPH	STA. 9+07, 15 FT LT MOVE TO STA. 9+07, 15 FT LT	1	1
35 MPH	STA. 9+10, 18 FT RT MOVE TO STA. 9+10, 18 FT RT	1	1
YAHARA DRIVE	STA. 13+55, 12 FT RT MOVE TO STA. 13+65, 15 FT RT	1	1
	TOTAL	3	3

REMOVING SIGNS TYPE II REMOVING SMALL SIGN SUPPORTS

DESCRIPTION	LOCATION	638.2602 (EACH)	638.3000 (EACH)
W5-52	STA. 10+88, 11 FT LT.	1	1
W5-52	STA. 10+88, 11 FT RT.	1	1
W5-52	STA. 11+21, 11 FT LT.	1	1
W5-52	STA. 11+21, 11 FT RT.	1	1
WEIGHT LIMIT 6 TONS	STA. 10+42, 10 FT RT.	1	1
ONE LANE BRIDGE	STA. 29+65, 11 FT LT.	1	1

NOTE: UNLESS NOTED, ALL ITEMS ARE IN CATEGORY 0010.

PROJECT NO: 5685-00-73 COUNTY: DANE MISCELLANEOUS QUANTITIES (1 OF 2) HWY: DYRESON ROAD FILE NAME: G:\1-BRIDGE PROJECTS\Bridge Files\40509111 Dyreson Rd\01 CAD\ROAD\09111-300.dwg PLOT DATE: Nov 24, 2014

637.2230

TOTAL 6

SHEET

DESCRIPTION	MUTCD I.D. NUMBER	QTY	DAYS PER ITEM	643.0420 TRAFFIC CONTROL BARRICADES, TYPE III (DAYS)	643.0705 TRAFFIC CONTROL WARNING LIGHTS, TYPE A (DAYS)	643.0900 TRAFFIC CONTROL SIGNS (DAYS)
TRAFFIC CONTROL BARRICADES, TYPE III	N/A	18	114	2052		
WARNING LIGHTS TYPE A	N/A	28	114		3192	
"ROAD CLOSED AHEAD"	W20-3	2	114			228
"ROAD CLOSED 1000 FT"	W20-3	2	114			228
"ROAD CLOSED 500 FT"	W20-3	2	114			228
"ROAD CLOSED X MILES AHEAD"	R11-3	2	114			228
"BRIDGE OUT X MILES AHEAD"	R11-3 (MOD.)	2	114			228
"BRIDGE OUT"	R11-2 (MOD.)	4	114			456
END ROAD WORK	G20-2A	2	114			228
			TOTAL SIGN DAYS	S 2052	3192	1824

LAYOUT ITEMS

STATION — STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE (LF)	650.5000 CONSTRUCTION STAKING BASE (LF)	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT P-13-0190 (LS)	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (LS)	650.9920 CONSTRUCTION STAKING SLOPE STAKES (LF)
7+90.00 - 11+38.16	MAINLINE	348	348			348
12+62.16 - 13+75.00	MAINLINE	113	113			113
50A+00.00 - 51A+46.34	P.E.	125	125			125
	TOTALS	586	586	1 *	1	586

*CATEGORY 0020

TRAFFIC CONTROL PROJECT

643.0100 LS

SAWING ASPHALT

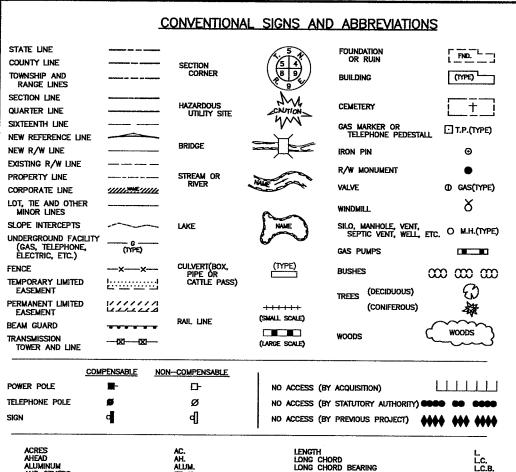
STATION	LOCATION	690.0150 (LF)
7+90.00	MAINLINE	21
13+75.00	MAINLINE	22
	TOTALS	43

EARTHWORK SUMMARY

Division	From/To Station	Location	Common Excavation (1)	(item # 205.0100)	Salvaged/Un usable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (9)	Expanded EBS Backfill (11)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste	Borrow	Comment
				EBS Excavation										
			Cut (2)	(3)			Factor	Factor		Factor			AND DESCRIPTION OF THE PERSON	
				534.545			0.80	1.30		1.30			(item #208.0100)	
	1 7+90 to 11+38.16 12+62.16 to 13+75		114 96	0	0	114			532	692	-578			
	50A+00 to 51A+25		13	0	0	90	3 0		8	101	-88			
Division 1 Subtotal			223	0	0	223	3 0) 689	9 888	-665			
						-								
	2		0	0	0	-	0			0	0			
											T-			
Division 2 Subtotal			0	0	0	1	0	0	0	0	0		665	See Note 15
Grand Total			223		0	223	3 0	0	689	888	-665		0 665	
			Total Common Ex	223	9						_			
	2) Salvaged/Uns	uable Pavement	Material is include	ed in Cut.	columns. Item nun									
				row material. Not	e: this is designers	choice, can be b	ackfilled with Borro	ow, or Cut as well.						
	4) Salvaged/Unu													
	5) Available Mate													
				Borrow Material.	Note: this is design	ers choice, can b	e backfilled with Bo	errow, or Cut as w	ell. Item number 2	05.0500				
	7) Rock Excavat			iel ie weweble ie F	Tille evite ide the did	alana Masahia F	ill Reduction factor	- 0.0						
							eduction factor = 0.							
							5. Item number 208							
							tem number 208.11							
	12) Expanded Ro			, coloot Bollon I	Tractorial EDG Date		Sin nambor 200.1							
	13) Expanded Fi													
	Depending on se				Expanded Fill =	(Unexpanded Fi	II - Rock* Rock Fa	ctor - Reduced I	Marsh - Reduced	EBS) * Fill Facto	r			
	, ,			Or			Rock* Rock Factor							
				Or	Expanded Fill = (l	Jnexpanded Fill -	Rock* Rock Factor	r - Reduced Marsh	n) * Fill Factor					
				Or	Expanded Fill = (l	Jnexpanded Fill -	Rock* Rock Factor	r) * Fill Factor						
	14) The Mass Or	dinate + or - Qty	calculated for the	Division. Plus q	uantity indicates ar	n excess of mater	ial within the Divisi	on. Minus indicate	s a shortage of ma	aterial within the Di	vision.			
	15) Borrow Exca	vation item numb	per 208.0100											

NOTE: UNLESS NOTED, ALL ITEMS ARE IN CATEGORY 0010.

PROJECT NO: 5685-00-73 HWY: DYRESON ROAD COUNTY: DANE MISCELLANEOUS QUANTITIES (2 OF 2) SHEET E



AC.
AH.
ALUM.
ET AL.
ANT.
APTS.
BK.
B.
BLK.
BLDG. LONG CHORD LONG CHORD BEARING MONUMENT LC.B. MON.
P.K. P.LE.
P.P.L.
R RYC.
S.F. STAN.
T.P. T.LL
VOL.
W. AND OTHERS ANTENNA APARTMENTS BACK PAGE
PAGE
PARKER-KALON FASTENER
PERMANENT LIMITED EASEMENT
POWER POLE
PROPERTY LIME
RADIUS
REFERENCE LINE BARN BLOCK BUILDING CENTERLINE CERTIFIED SURVEY MAP C.S.M. CONC. COR. E.P. FDN. GALV. G. G.P. RIGHT OF WAY SECTION CONCRETE CORNER ELECTRIC PEDESTAL FOUNDATION shed Square feet STATION GALVANIZED
GARAGE
GAS PUMP
GAS VALVE
HOUSE
HOUSE TRAILER TANGENT TANK
TELEPHONE PEDESTAL
TEMPORARY LIMITED EASEMENT
VOLUME

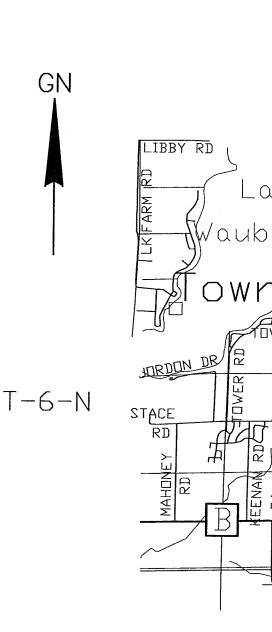
NOTES

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD 83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-DF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO

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

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING DCCUPATIONAL LINES. EXCLUDING RIGHT-DF-WAY BOUNDARIES, THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY,



GN

R-10-E arland 9 16 LAKE KEGONSAKE STATE PARK Lake Kegonsa

> BEGIN RELOCATION ORDER STA. 7+90

1717.22 FT. NORTH OF AND 2098.74 FT EAST OF THE WEST ¼ COR. OF SEC. 14, T.6N., R.10E.

1-31-2012

REVISION DATE

Annual manual and a second

Jan. 03, 2012

WESTBROOK
SPRING GREEN, WI 53588
PHONE (608) 507

Associated Engineers, Inc. FAX (608) 588-7954

MICHAEL D.

GOEBEL

S-1241

APPROVED FOR TOWN OF DUNN

DATE: 1-5-12

TOTAL NET LENGTH OF CENTERLINE = 0.078 MI. (RURAL)

SCALE

SCALE

0 .25 0.5 MI

R-10-E

PLOT DATE: Jan 04, 2012

PLOT BY: johns0

PLOT SCALE:

R/W PROJECT NUMBER

TOWN ROAD

STA. 12+00

-6-N

5685-00-03 FEDERAL PROJECT NUMBER

CONSTRUCTION PROJECT NUMBER

5685-00-73

END RELOCATION ORDER

1717.87 FT. NORTH OF AND

2508.74 FT. EAST OF THE

WEST ¼ COR. OF SEC. 14, T.6N., R.10.E.

PLAT OF RIGHT-OF-WAY REQUIRED FOR

DYRESON ROAD BRIDGE & APPROACHES

TOWN OF DUNN

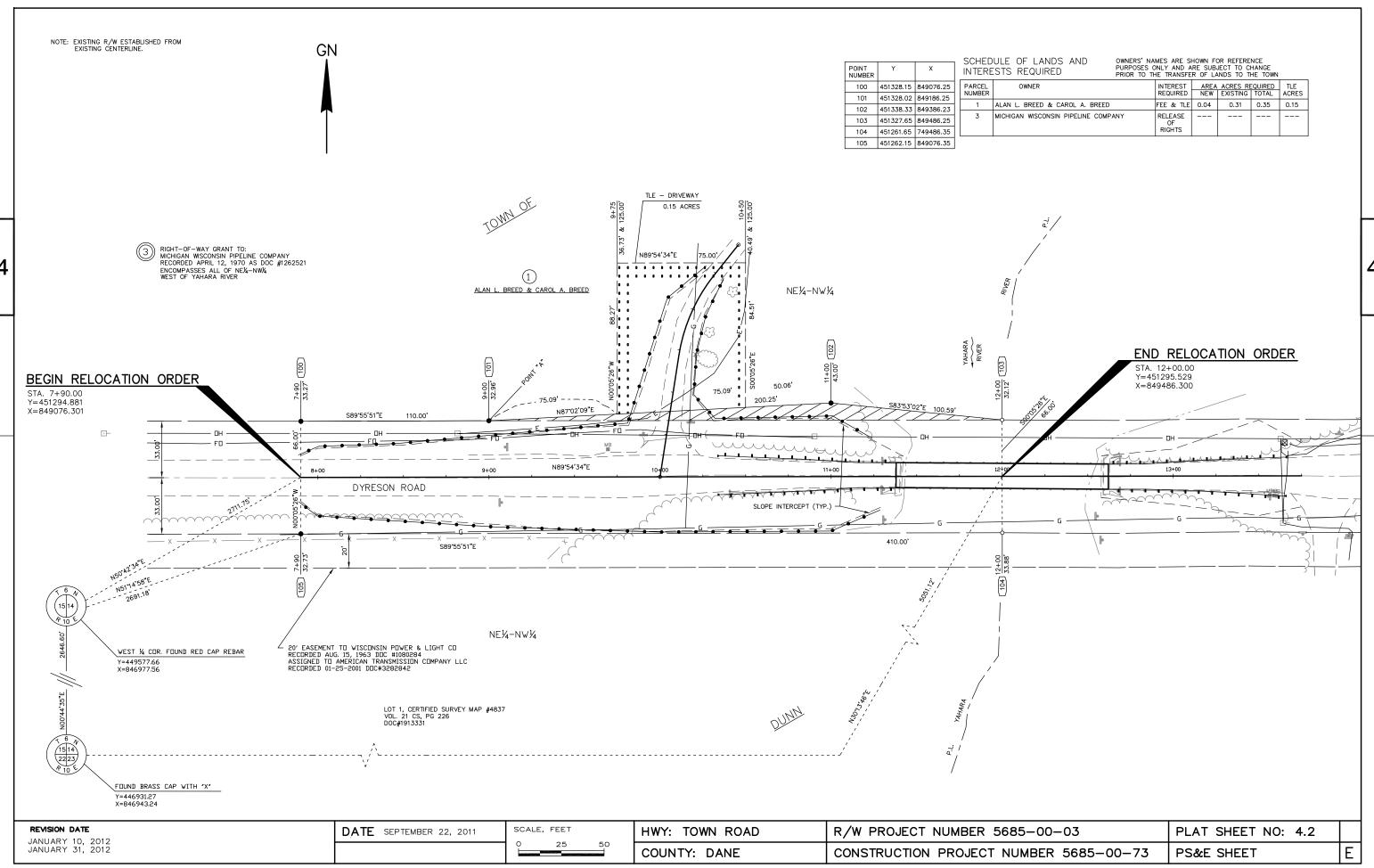
SHEET TOTAL

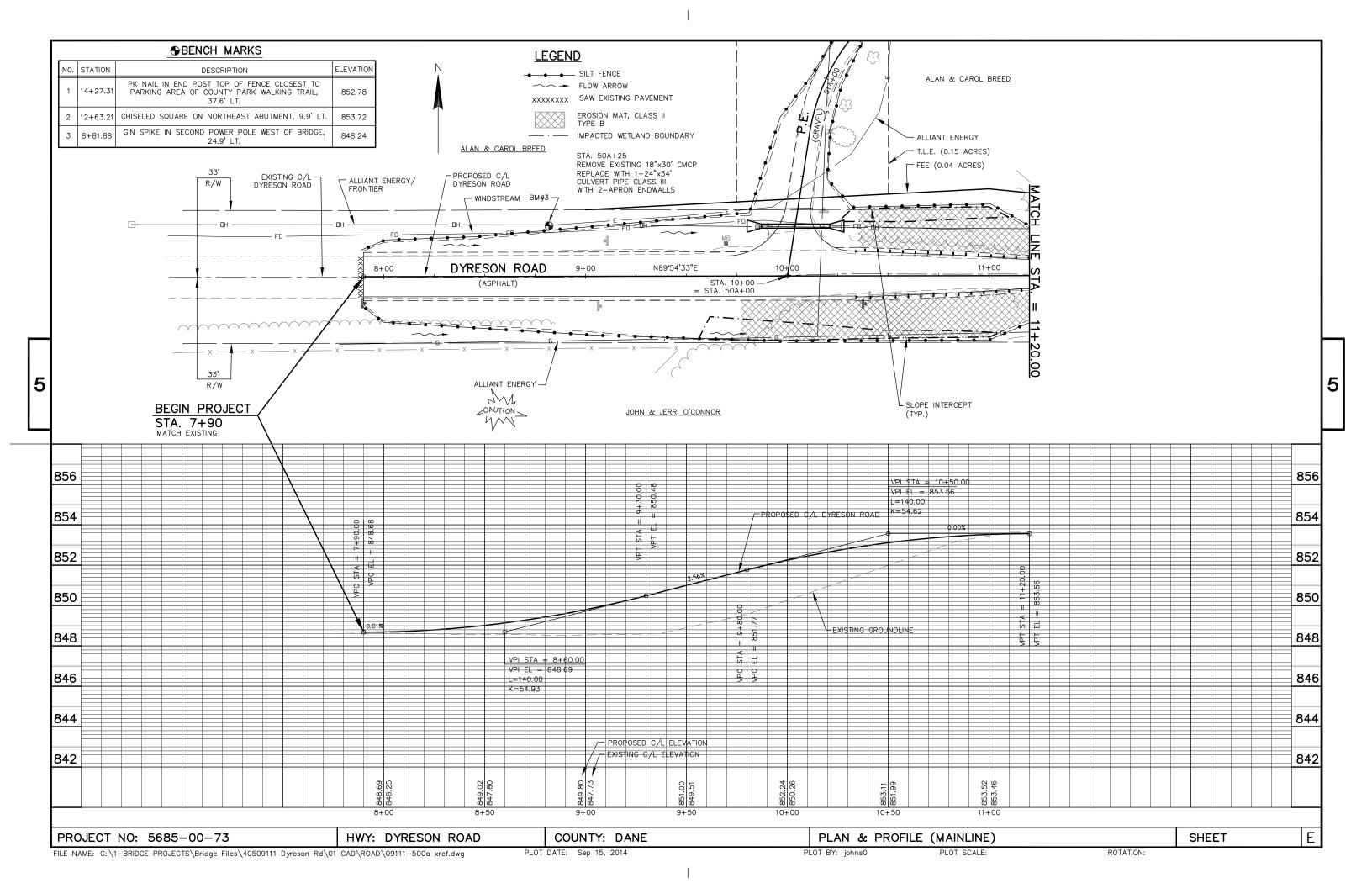
IUMBER SHEET

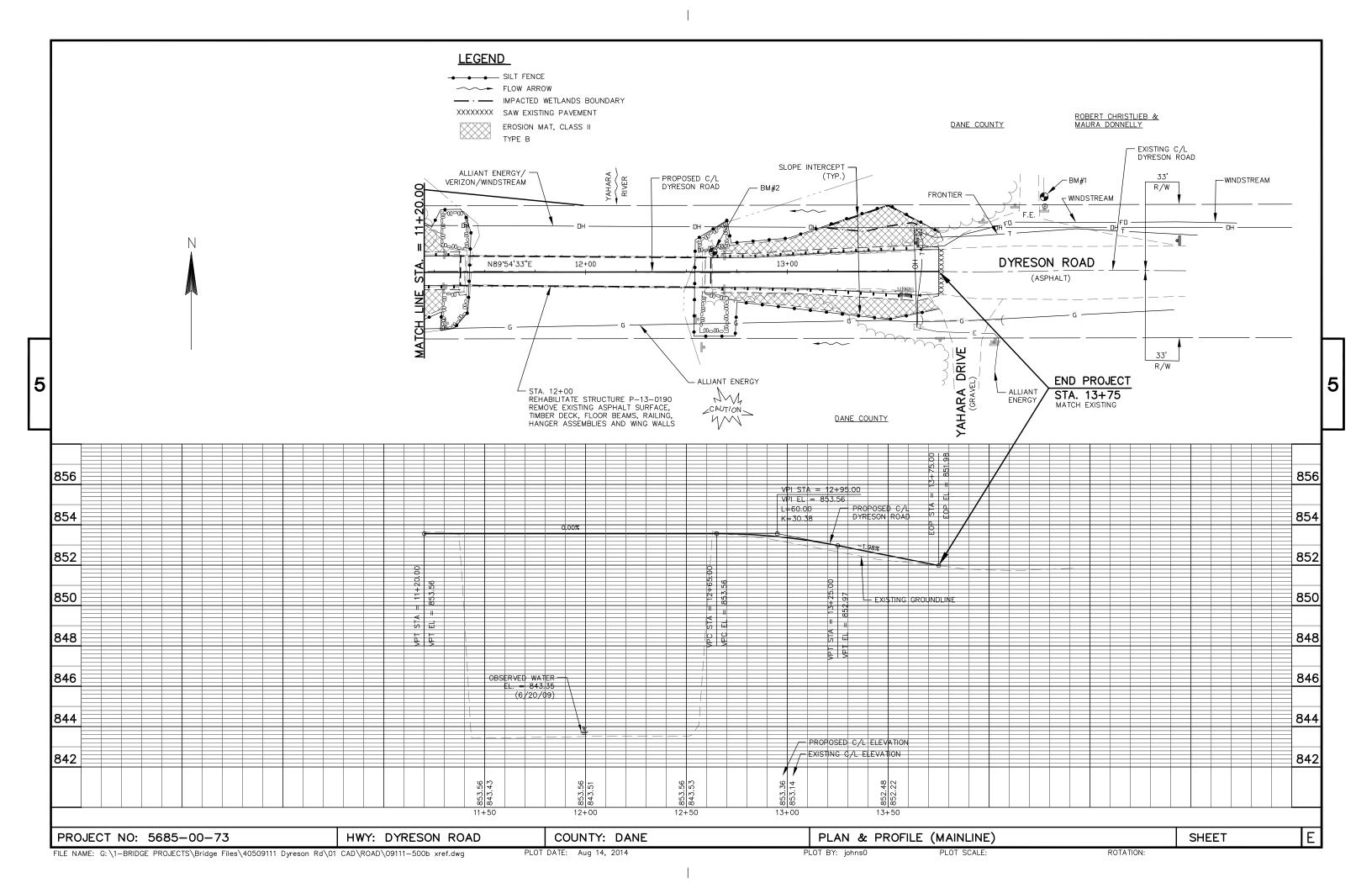
DANE COUNTY

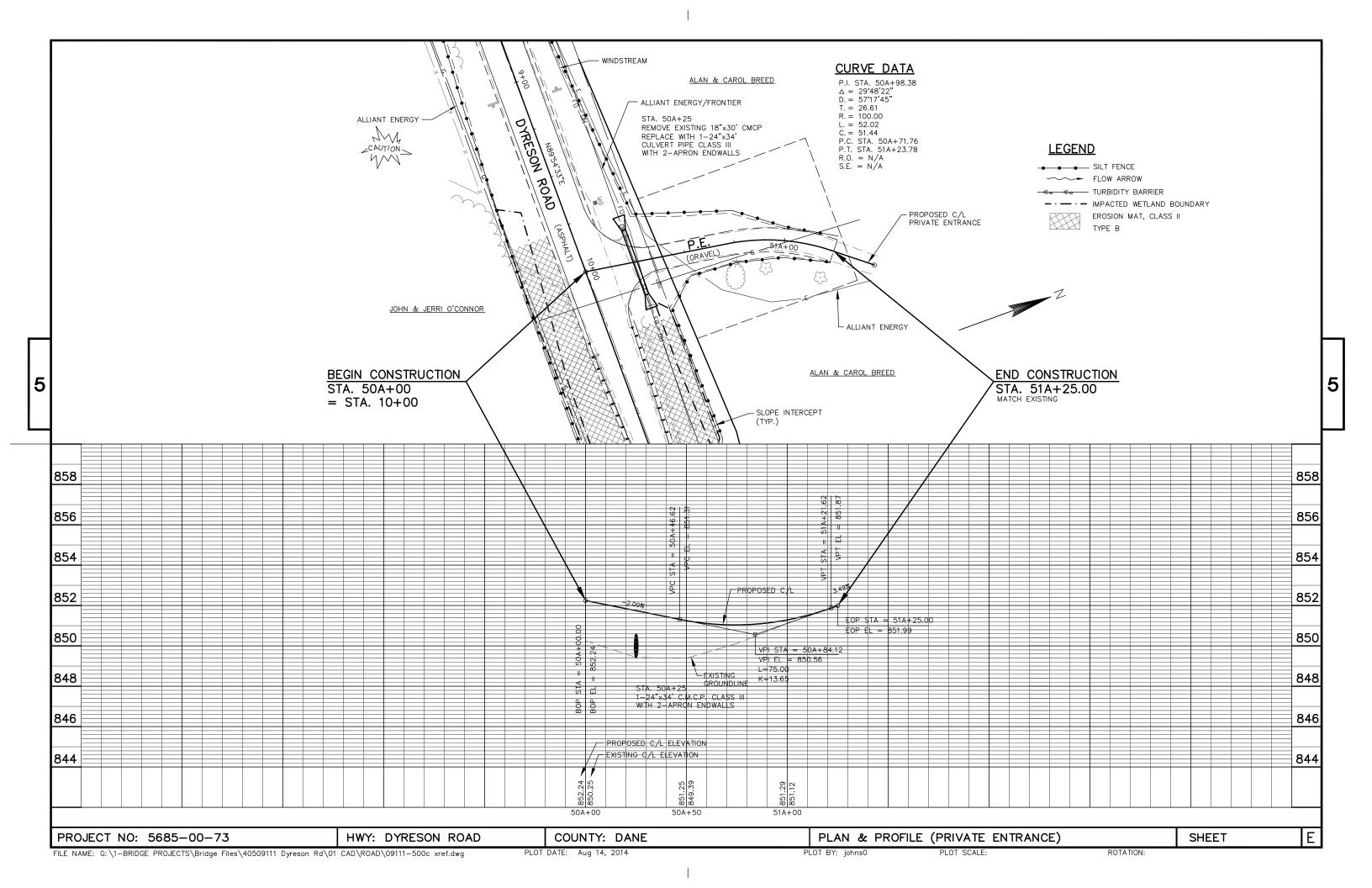
2

619 EAST HOXIE STREET









Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
12A03-10	NAME PLATE (STRUCTURES)
14B15-08A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-08B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-08C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
14B24-08A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-07	SIGNING & MARKING FOR TWO LANE BRIDGES

6

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

6

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D.D. 8 E 9

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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.

	REINFORCED CONCRETE APRON ENDWALLS							
PIPE		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





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

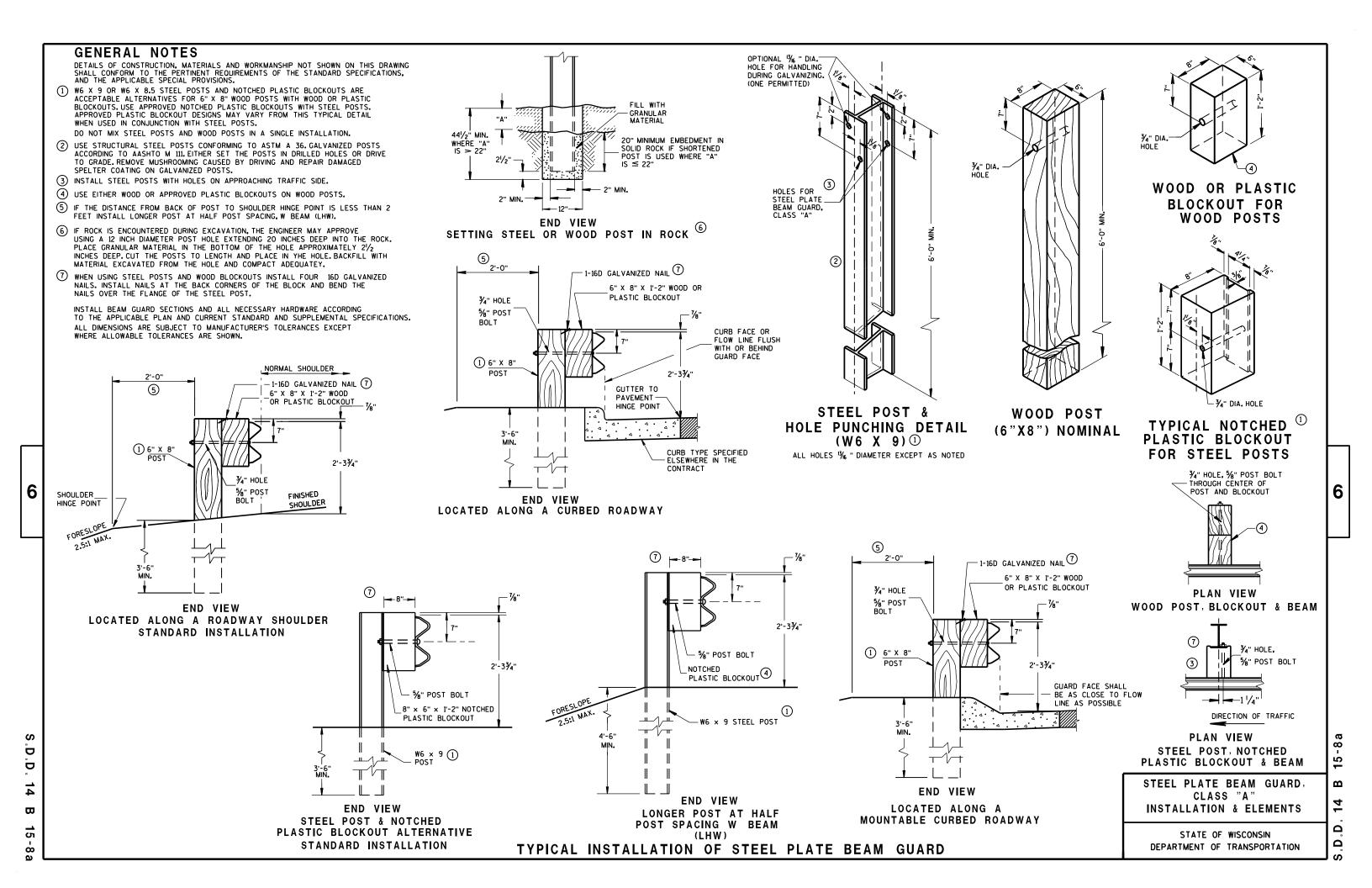
|--|

3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10



FRONT VIEW

POST SPACING STANDARD INSTALLATION

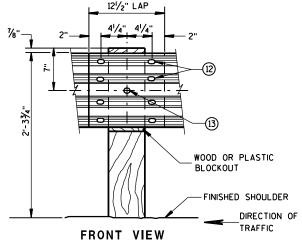
SECTION THRU W

SYMMETRICAL

∕-12 GAGE

BEAM

¯ABOUT €



BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

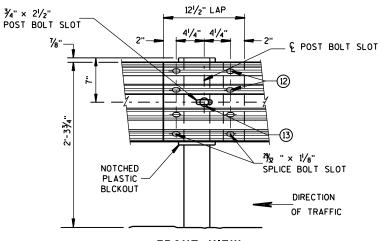
GENERAL NOTES

- (8) PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.
- (9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (10) REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
- (1) PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
- (12) 8 5%" * X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- (3) %" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH %" DIA. F844 FLAT WASHER UNDER NUT.

12'-6" OR 25'-0" EFFECTIVE LENGTH OF BEAM 3'-1\/2" C-C 3'-1\/2" C-C 3'-1\/2" C-C 3'-1\/2" C-C POST POST POST POST SPACING SPACING SPACING SPACING FINISHED DIRECTION OF TRAFFIC

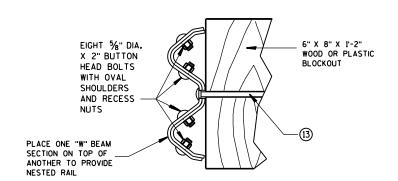
FRONT VIEW

POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW
BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

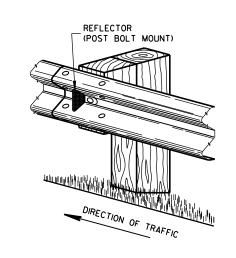


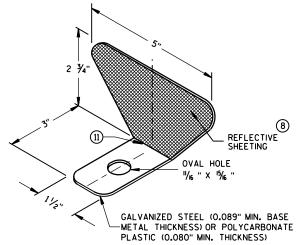
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

	9
REFLECTOR	SPACING

	BEAM GUARD	REFLECTOR	NO. SURFACES	MIN. NO.
	LENGTH	SPACING	REFLECTORIZED	REFLECTORS
ONE WAY TRAFFIC	< 500,	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	> 500. < 500.	25' C-C 50' C-C	1 100	6
TWO WAY TRAFFIC	> 500, < 500,	50' C-C 100' C-C	2(11)	3





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION $^{\circ}$

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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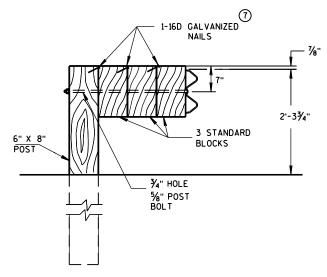
6

8 b

6

DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

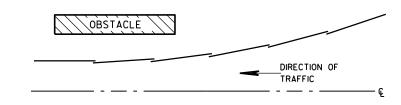


DETAIL FOR TRIPLE BLOCKS

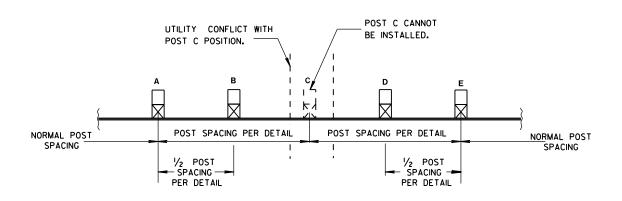
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA 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.



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS 6

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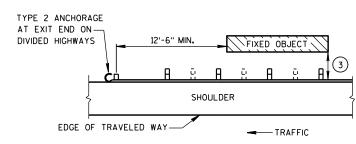
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
FHWA

DATE
FOR THE PROPOSED PROBLEM OF THE PROBLEM OF THE

6

BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

GENERAL NOTES

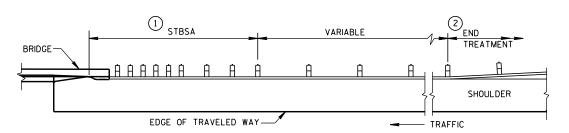
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

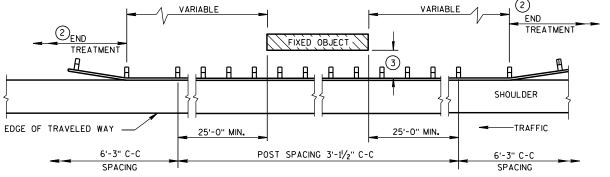
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

- (1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) SEE CURRENT SDD 14B20.
- 2 USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

3	MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
	3'-6"	3' - 11/2"
	4'-6"	6' - 3"

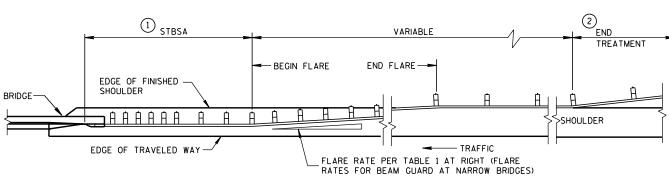


BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")



BEAI	M GUARD	AT	NAR	ROW B	RID	GES
(FLARED TO	SHOULDER	EDGE,	THEN	PARALLE	L TO	ROADWAY)

TABLE 1
FLARE RATES FOR BEAM
GUARD AT NARROW BRIDGES

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

STEEL PLATE BEAM GUARD CLASS "A" AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
8-21-07	/S/ Jerry H.Zogg
DATE	ROADWAY STANDARDS DEVELOPMENT
FHWΔ	ENGINEER

6

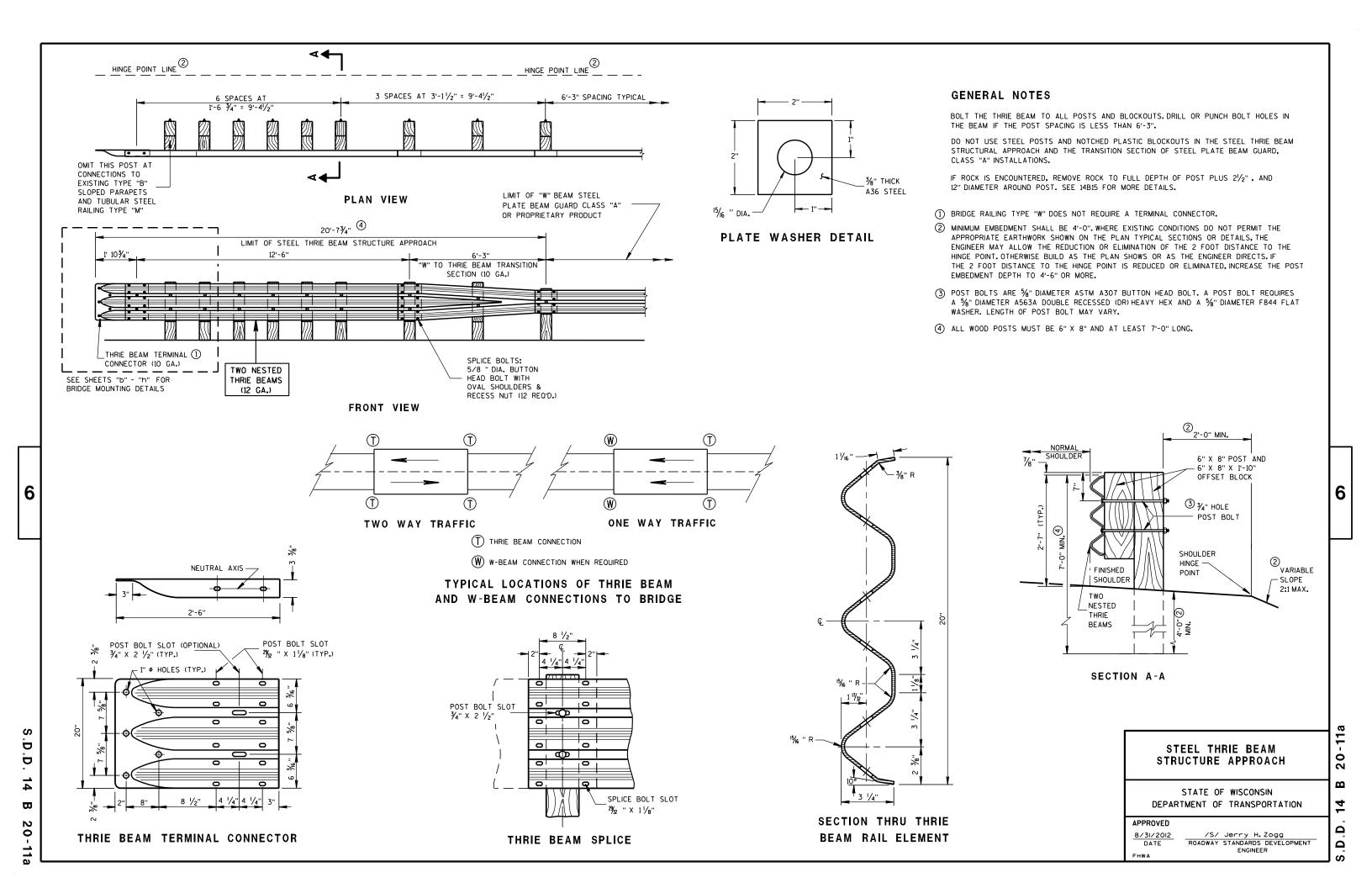
S.D.D.

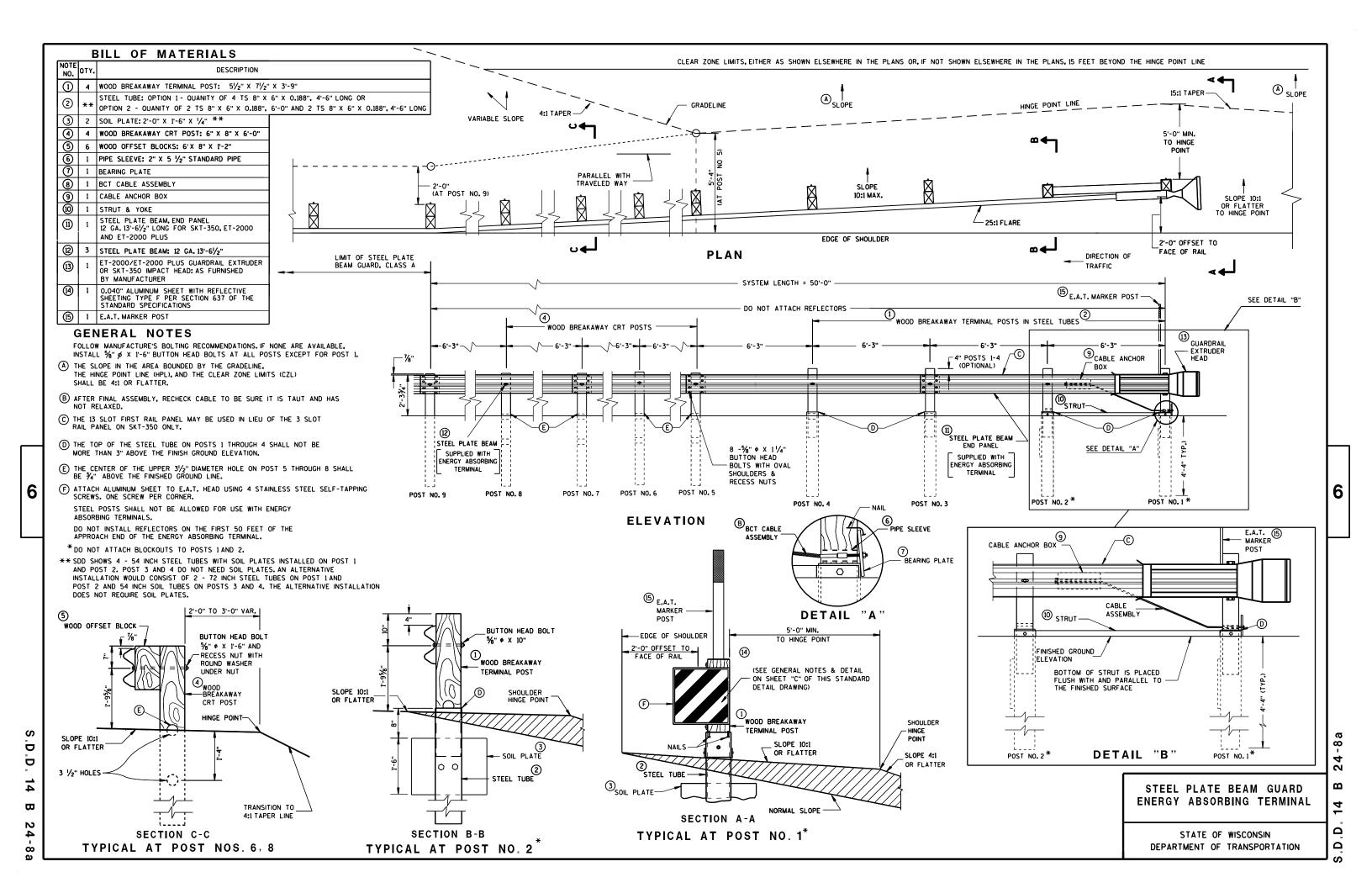
 $\boldsymbol{\varpi}$

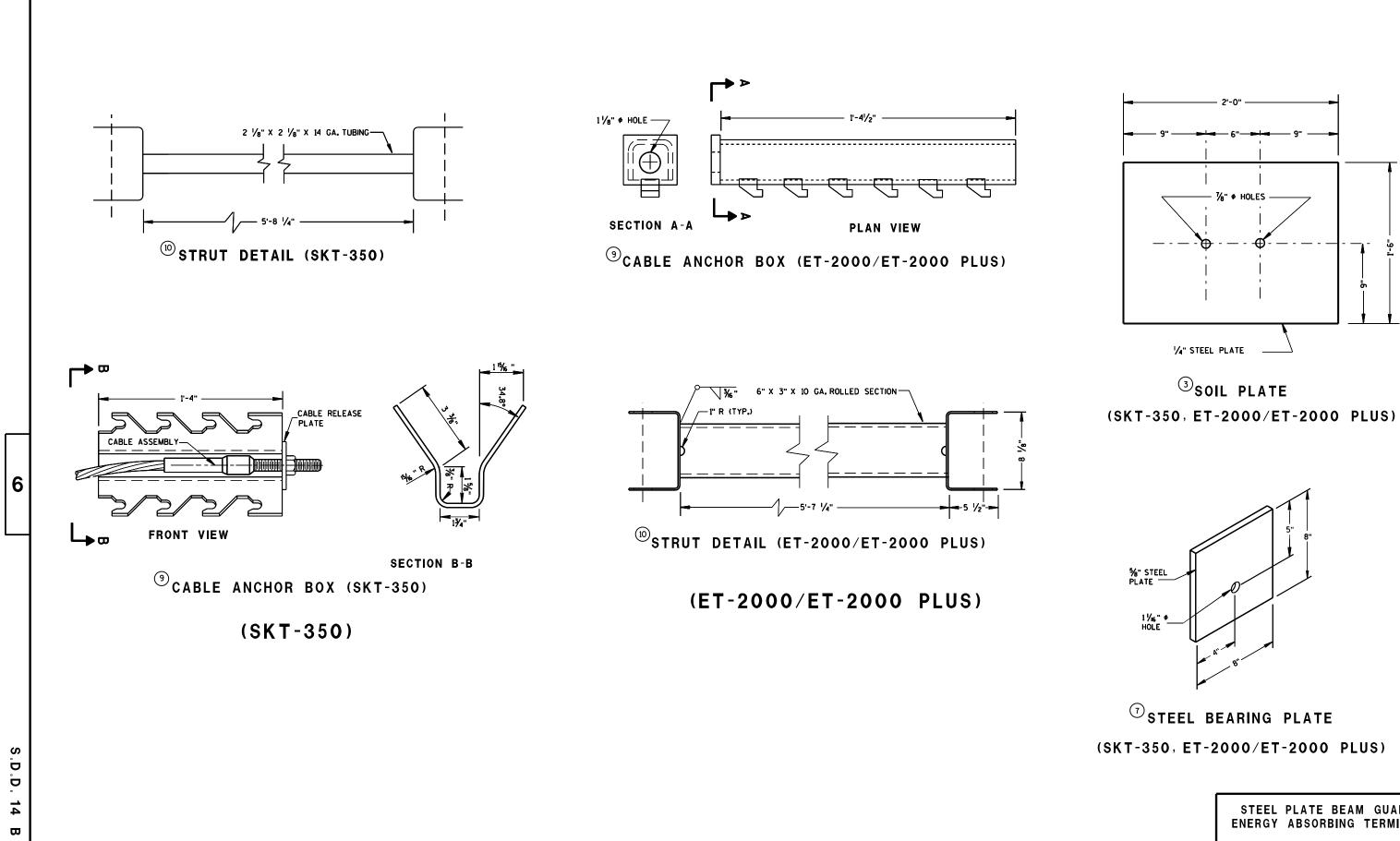
18.

6

D.D. 14 B 18



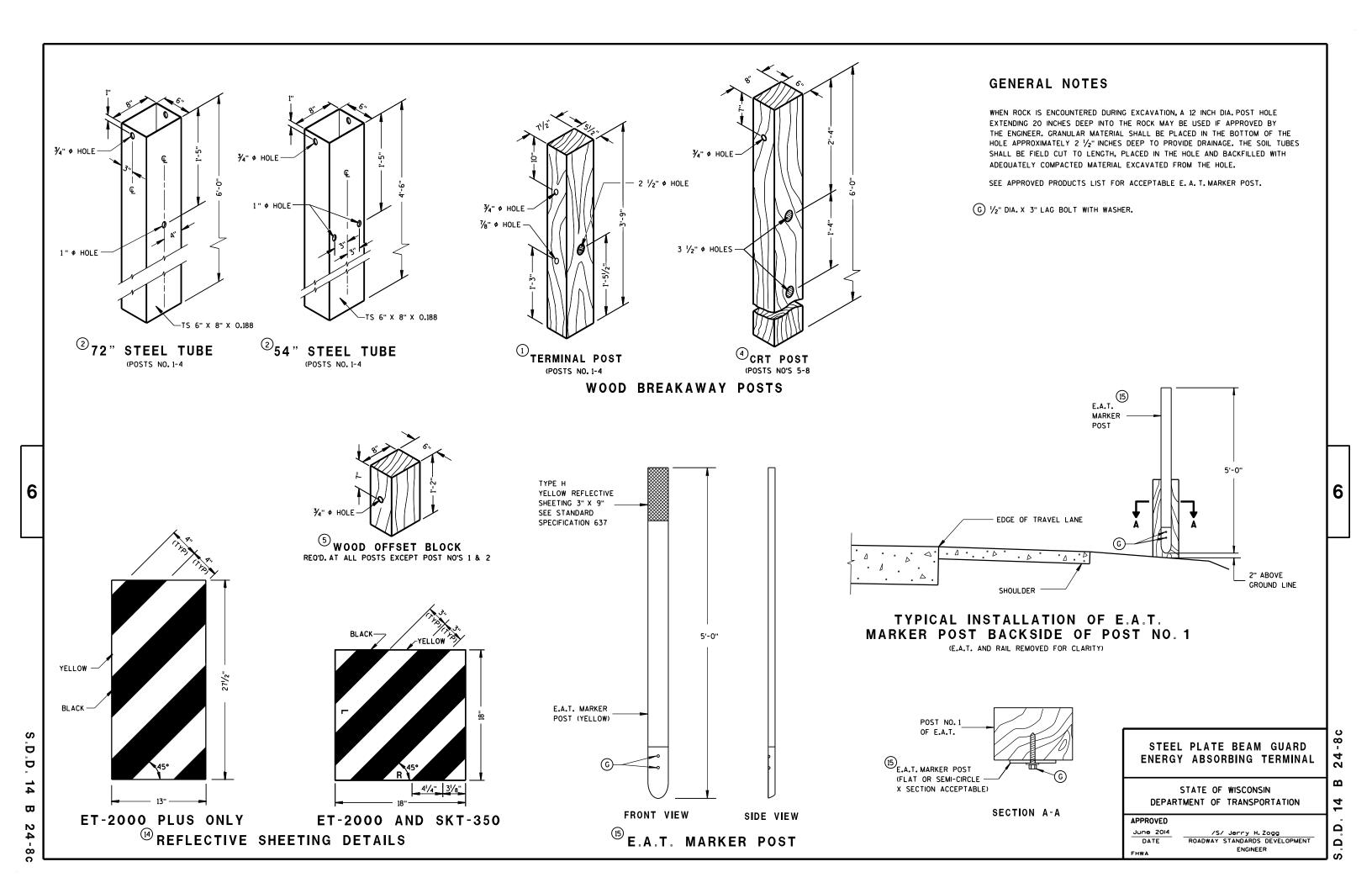




24-8b

STEEL PLATE BEAM GUARD **ENERGY ABSORBING TERMINAL**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 14 أ يُ





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

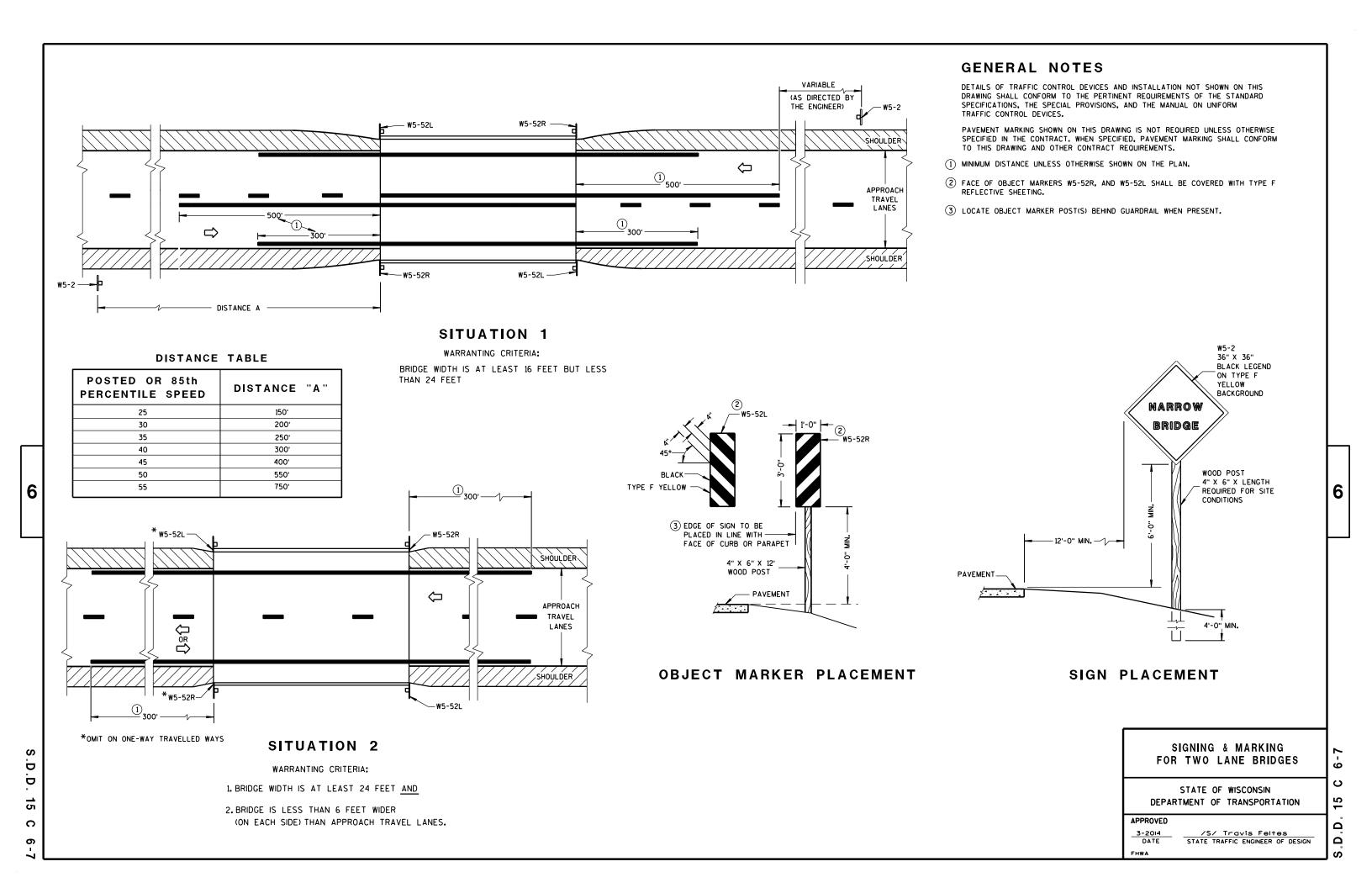
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

2

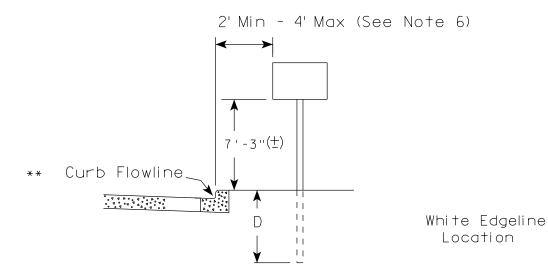
Δ

2

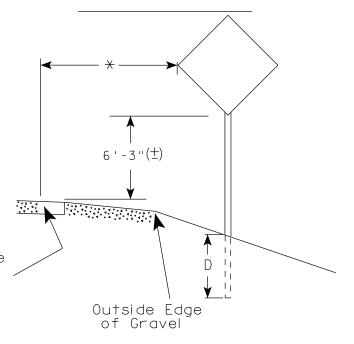




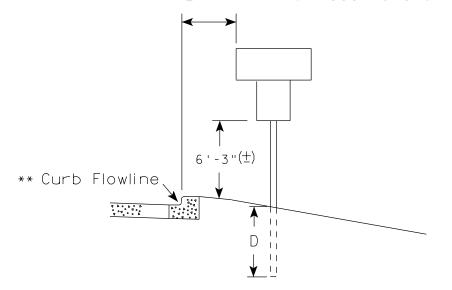
URBAN ARFA



RURAL AREA (See Note 2)



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



5'-3"(生) A POLICE AND A POL 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:

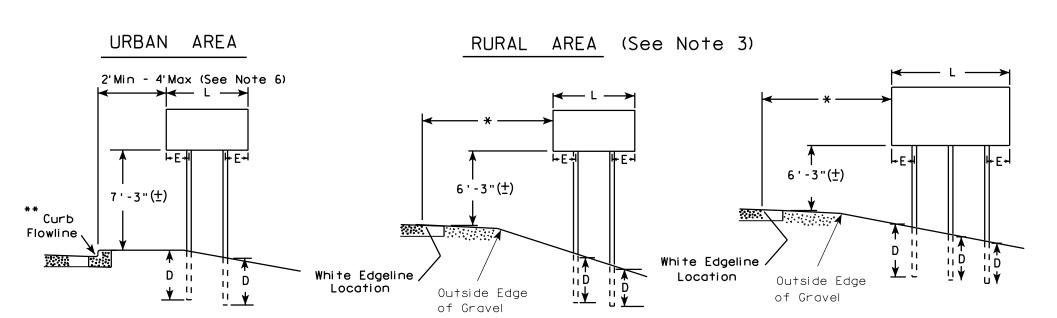
PLOT DATE: 30-SEP-2013 13:25

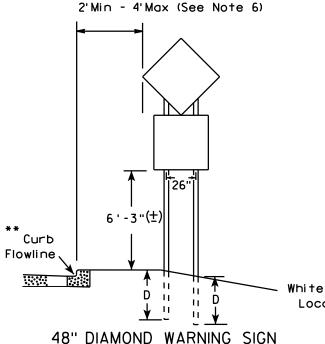
PLOT NAME :

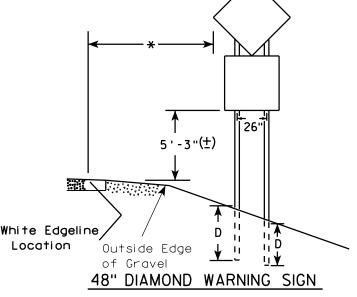
PLOT SCALE: 99.237937:1.000000

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- 8. 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), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (±).
- * 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.
- ** 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.
- $\star\star\star$ See A4-3 sign plate for signs 4' or less in width or less than 20 S.F. in area.







COUNTY:

	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRED	
	L	E
* * *	Greater than 48" Less than 60"	12"
	60" to 120"	L/5

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 120" less than 168"	12"

HWY:

SIGN SHAPE OTHER THAN (FOUR POSTS REQUIRE	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Lauch

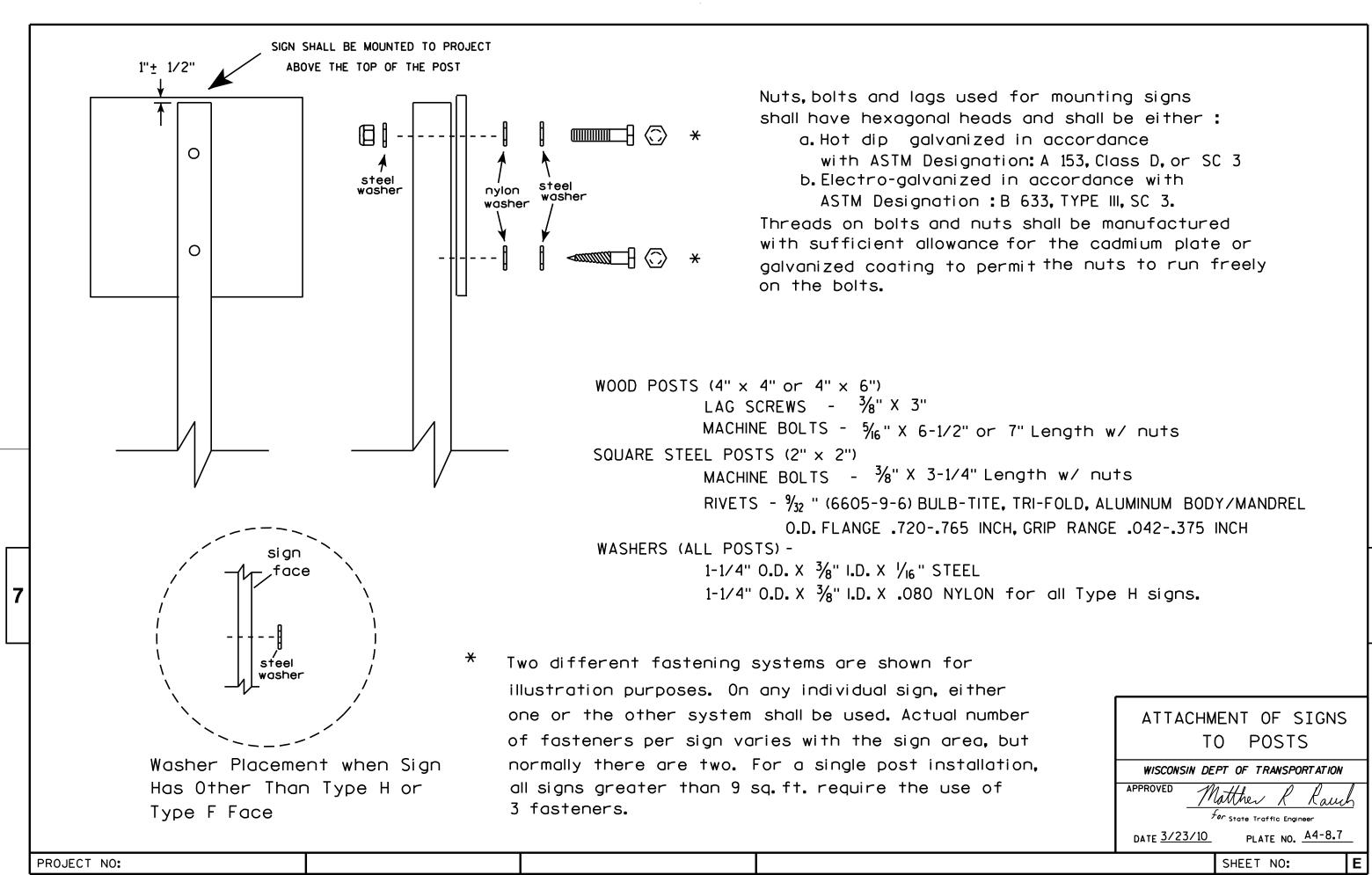
For State Traffic Engineer

DATE 4/29/14 PLATE NO. A4-4.13

SHEET NO:

PROJECT NO:

PLOT BY: mscsja



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

2. Color:

Background - Orange Message - Black

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



Metric equivalent for this sign is:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

AP

for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN

HWY:

PROJECT NO:

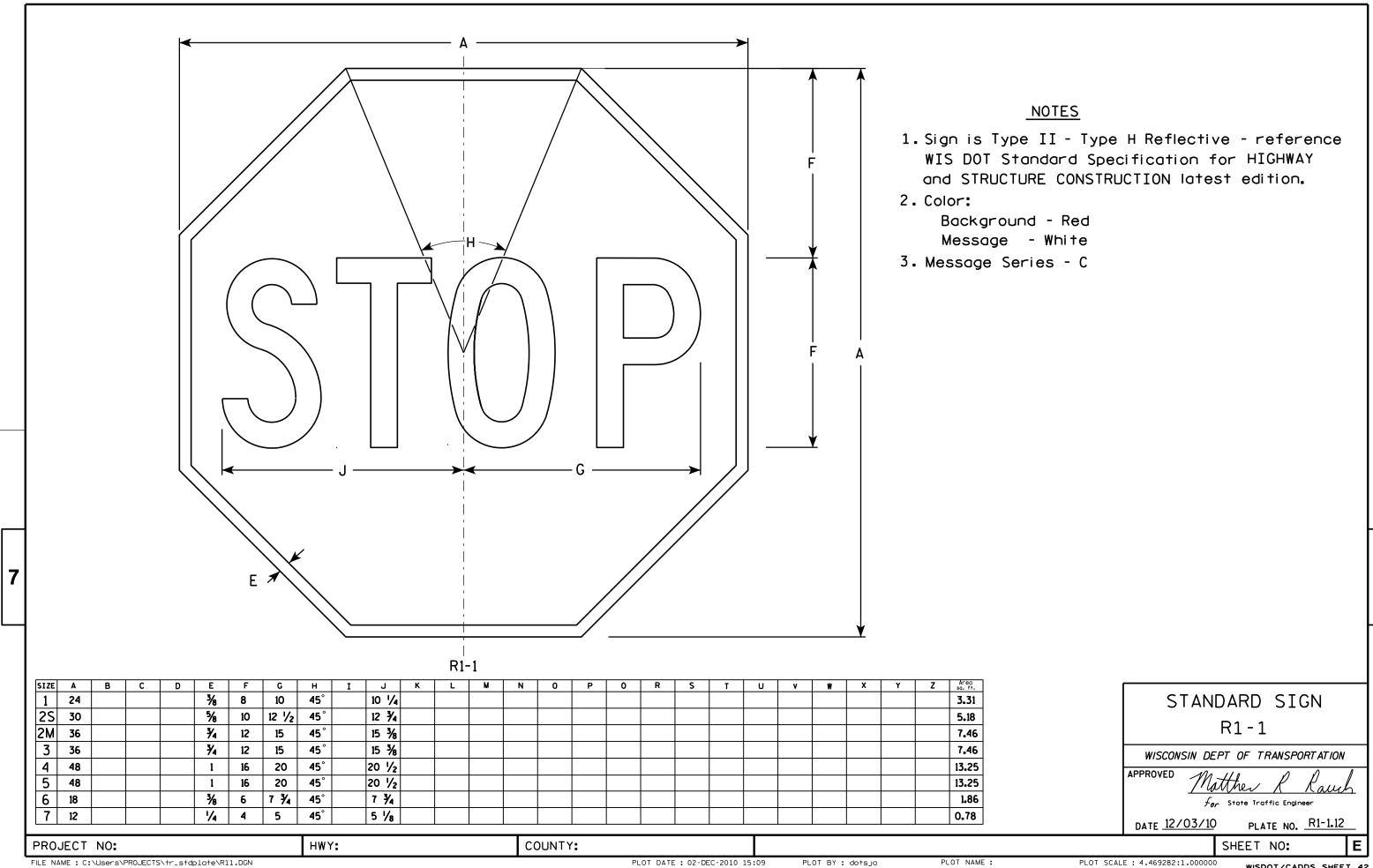
PLOT DATE: 30-SEP-2009 09:31

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

5.561773:1.000000 WISDOT/CADDS SHEET 42



WISDOT/CADDS SHEET 42

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

Background - White Message - Black

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

C —		\
D A E A		$ \begin{array}{c c} G & \hline & F & \hline & B & \hline & G & G & G & \hline & G & G & G & G & \hline & G & G & G & G & \hline & G & G & G & G & G & G \\ & G & G & G & G & G & G $
	R11-2B	

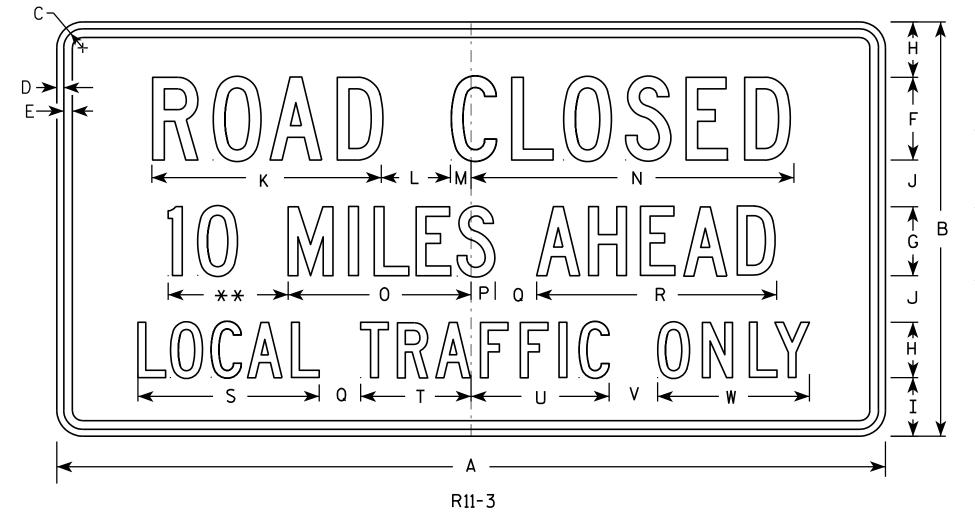
SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	M	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Areg sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
2M	48	30	1 %	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
4	48	30	1 %	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0

STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

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

SHEET NO:



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

Background - White Message - Black

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

** See Note 5

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	M	Z	0	Р	0	R	S	T	U	v	W	X	Y	Z	Areg
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 ¾	8 %	4 3/4	6 1/2	2	6 3/4				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rauch

DATE 4/1/11 PLATE NO. R11-3.6

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R113.DGN

HWY:

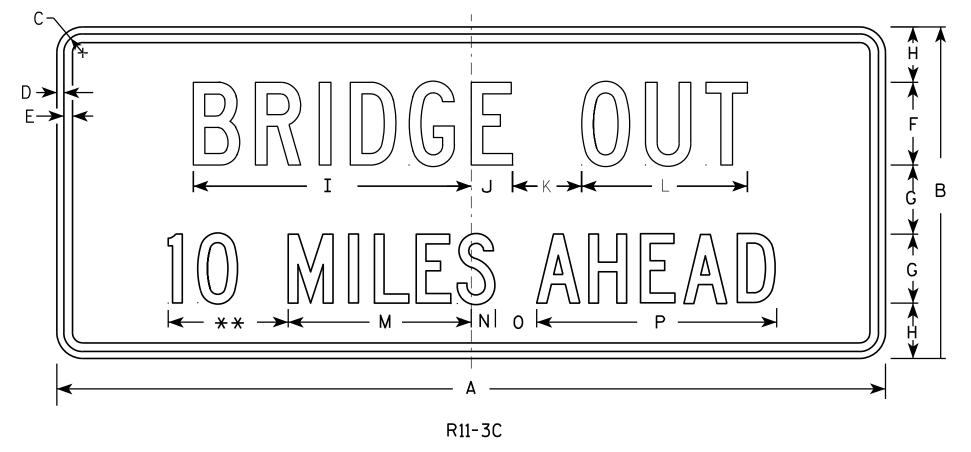
PROJECT NO:

PLOT DATE: 01-APR-2011 14:20

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 6.952216:1.000000



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

Background - White Message - Black

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

** See Note 5

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	V	W	Х	Y	Z	Areo sq. fi.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 ¾											3.75
2S	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8											10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8											10.0
3																											
4																											
5																											
PRC	JECT	NO:																									

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rawh PLATE NO. R11-3C.2

DATE 4/1/11

SHEET NO:

PLOT DATE: 01-APR-2011 14:15 PLOT BY: mscj9h

R12-1

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

Background - White Message - Black

- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1, 2 & 3 are series E Lines 4, 5, & 6 are series D.
- 6. Substitute appropriate numeral and optically adjust spacing to achieve proper balance.
- 7. Substitute name of county or town on County Trunk and Town Highways respectively. Community name on City or Village Streets including Connecting Highways is optional.

* Varies (see note 6)

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	24	30	1 1/8	3/8	1/2	3	6	4	3	1 1/4	2 1/4	1 3/8	3/4	1/2	1 1/8	9	9 1/2	6	6 1/2	7 1/8	6 %	3 1/4	3 %	7 3/4			5.0
2S	24	30	1 1/8	3∕8	1/2	3	6	4	3	1 1/4	2 1/4	1 3/8	3/4	1/2	1 %	9	9 1/2	6	6 1/2	7 1/8	6 %	3 1/4	3 %	7 3/4			5.0
2M	24	30	1 1/8	3∕8	1/2	3	6	4	3	1 1/4	2 1/4	1 3/8	3/4	1/2	1 %	9	9 1/2	6	6 1/2	7 1/8	6 %	3 1/4	3 %	7 3/4			5.0
3	36	48	1 3/8	1/2	5/8	6	10	8	4 1/2	2 1/2	2 1/4	1 1/2	3/4	1/2	3	13 1/2	14 1/4	9	9 3/4	10 %	10 1/4	3 1/4	3 %	7 3/4			12.0
4	48	60	2 1/4	₹4	1	6	12	8	6	2 1/2	4 1/2	2 3/4	1 1/2	1	3 3/4	18	19	12	13	14 1/4	13 3/4	6 1/2	7 1/4	15 1/2			20.0
5																											

STANDARD SIGN R12-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Math

for State Traffic Engineer

DATE 4/1/11 PLATE NO. R12-1.8

SHEET NO:

HWY:

COUNTY:

PLOT NAME :

PLOT SCALE : 5.363138:1.000000

WISDOT/CADDS SHEET 42

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

Background - White Message - Black

- 3. Message Series B for Size 2, Series D for Sizes 3 & 4
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.
- 6. For distances less than 5 miles, that figure should be expressed to the nearest $\frac{1}{4}$ mile.

R12-55

* Varies

SIZE	Α	В	С	D	E	F	G	Η	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2S	48	18	1 1/8	3/8	1/2	5	2 1/8	2 1/4	3 %	7 1/8	1 1/4	2 1/4	15 ¾	9 1/2	3	3 1/8		14 1/8									6.0
2M	48	18	1 1/8	3/8	1/2	5	2 1/8	2 1/4	3 %	7 1/8	1 1/4	2 1/4	15 ¾	9 1/2	3	3 1/8		14 1/8									6.0
3	90	24	2 1/4	3/4	1	6	4	4	6	15 1/4	2 1/2	3 1/2	30 %	18 3/8	6	6 1/4		28 3/8									15.0
4	120	30	2 1/4	3/4	1	8	5 1/4	3 %	8	19 %	4	3	39 ½	24 1/2	7	6 3/4		36 %									20.0
5	120	30	2 1/4	3/4	1	8	5 1/4	3 %	8	19 %	4	3	39 ½	24 1/2	7	6 3/4		36 ¾									20.0

COUNTY:

STANDARD SIGN R12-55

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer PLATE NO. R12-55.5 DATE 11/23/11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R1255.DGN

PROJECT NO:

HWY:

PLOT DATE: 23-NOV-2011 15:42

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 5.959043:1.000000

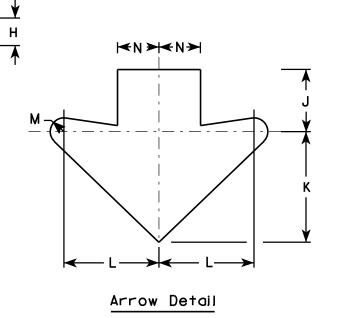
WISDOT/CADDS SHEET 42



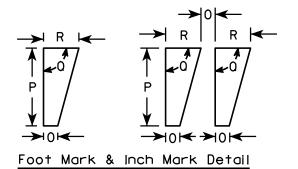
- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

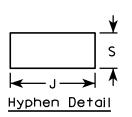
Background - Yellow Message - Black

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



PLOT BY: mscj9h





SIZE	Α	В	С	D	E	F	G	Н	I	7	K	L	М	N	0	P	0	R	S	T	U	V	W	X	Y	Z	Arec sq. f
1	30		1 3/8	1/2	5/8		5	1 1/8	3 %	3 3/4	6 %	5 ¾	3/4	2 1/2	1/2	2 1/4	90°	1	1 %								6.2
25	36		1 %	5/8	3/4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.0
2M	36		1 %	5/8	3/4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.0
3	36		1 %	5/8	3/4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.0
4	36		1 %	5/8	3/4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.0
5	48		2 1/4	3/4	1		8	2 5/8	5 1/2	5 %	10 %	9 1/4	1 3/8	4	5/8	3 %	90°	1 5/8	2 1/2								16.

COUNTY:

W12-2

HWY:

STANDARD SIGN
W12-2

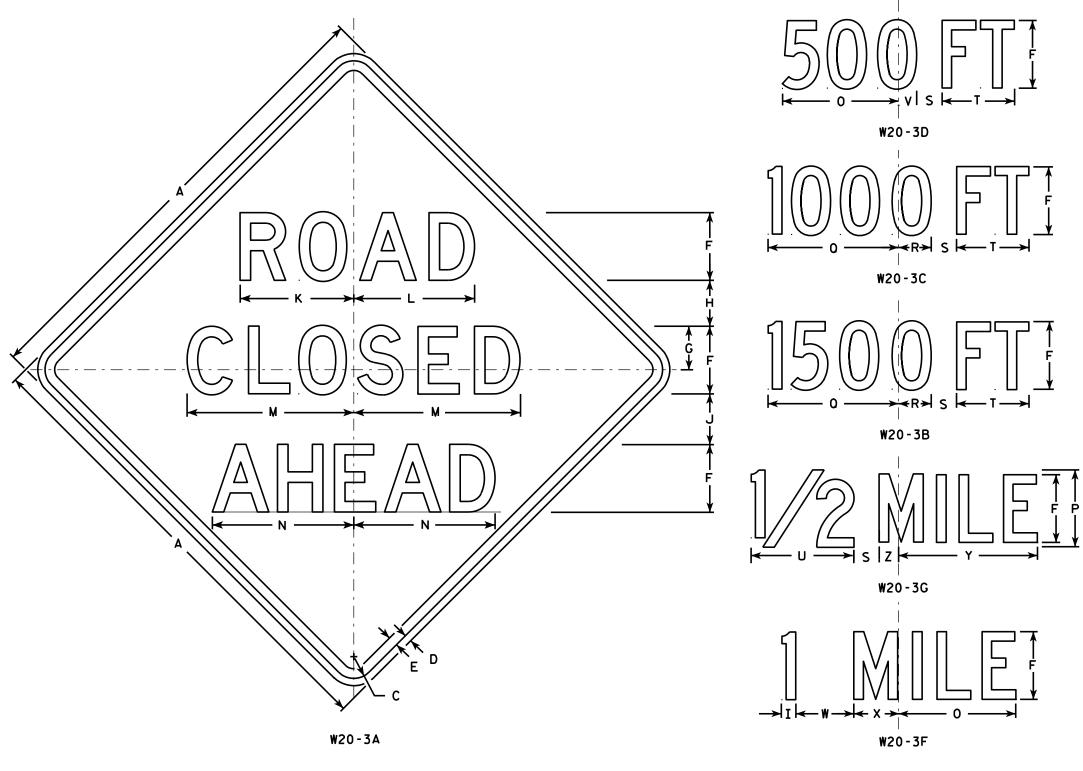
WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

For State Traffic Engineer
DATE 3/13/13 PLATE NO. W12-2.9

SHEET NO:



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

Background - Orange Message - Black

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

1 % 5/8 ¾ 8 3/8 8 7/8 12 1/2 5 % 1 3/8 4 1/2 36 3 1/2 10 3/4 1 3/4 8 4 \(\frac{5}{8} \) 14 \(\frac{3}{8} \) 2 \(\frac{3}{8} \) 16.0 3/4 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 7 1/2 10 5/8 1 7/8 2M 3/4 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 48 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 7 1/2 10 % 1 % 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 3/4 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 4 % | 14 % | 2 % | 16.0 48 3/4 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 13 1/2 3 3/8 2 5/8 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 7 1/2 10 5/8 1 7/8 48 5 4 5/8 14 3/8 2 3/8 16.0 3/4 2 1/4 4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 48

COUNTY:

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

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 3/18/11

PLATE NO. W20-3.7

SHEET NO:

PROJECT NO: FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN HWY:

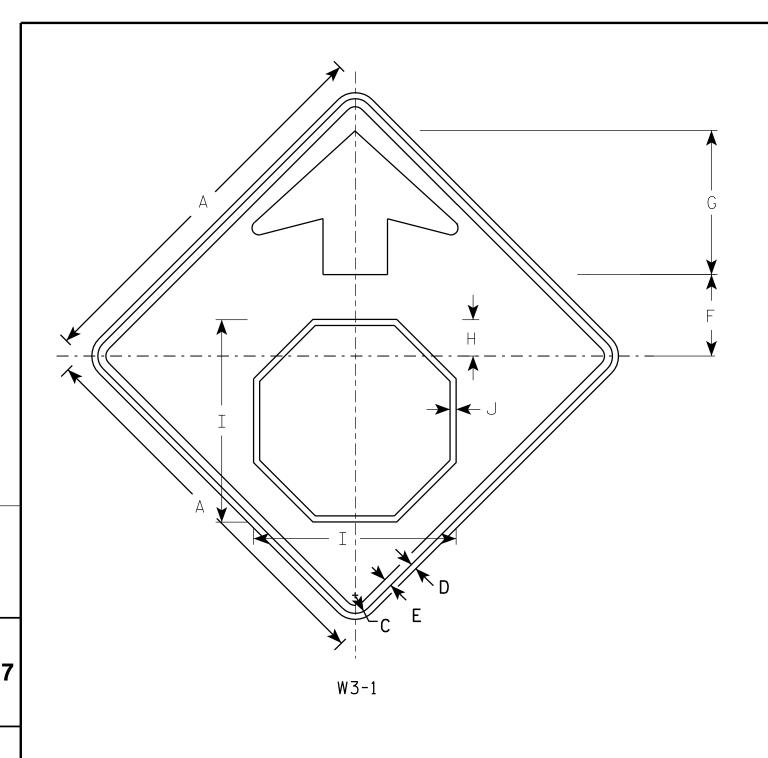
PLOT DATE: 18-MAR-2011 12:08

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 9.931739:1.000000

WISDOT/CADDS SHEET 42

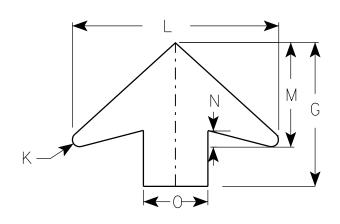


- 1. All Signs Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - YELLOW

Arrow & Border - BLACK

Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW	DFTAII
$\neg \cdots $	

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Areo sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 1/8	15 ¾	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 1/8	5/8	₹4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 %	6												9.0
2M	36		1 1/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 %	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 %	6												9.0
4	48		2 1/4	3/4	1	10	17 1/8	4 1/2	25 1/8	3/4	7 ⁄8	25 %	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 1/8	4 1/2	25 1/8	₹4	7 /8	25 %	13	2	8												16.0

STANDARD SIGN W3-1

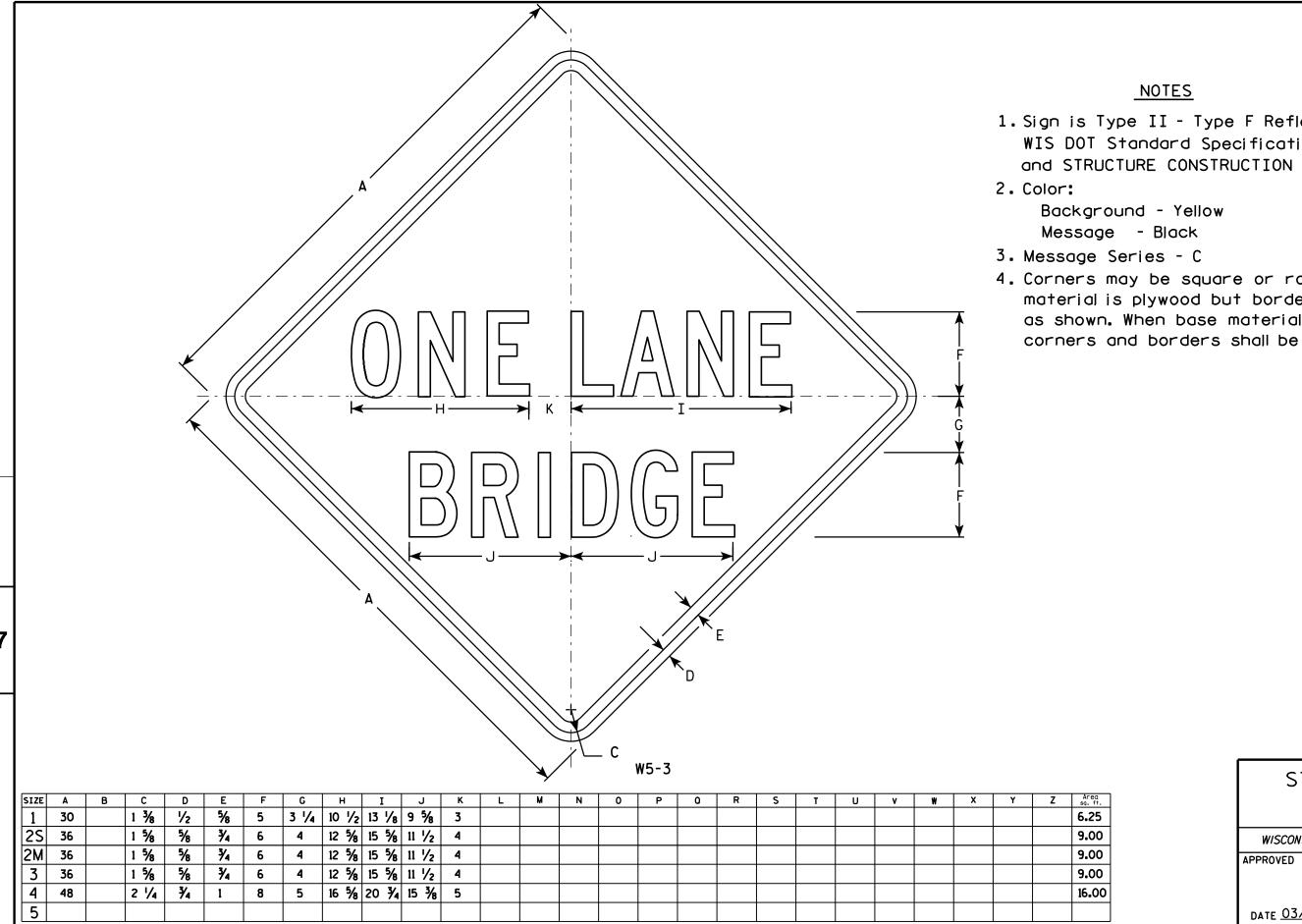
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

SHEET NO:



COUNTY:

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

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

> STANDARD SIGN W5 - 3

WISCONSIN DEPT OF TRANSPORTATION

DATE <u>03/12/13</u>

PLATE NO. W5-3.11

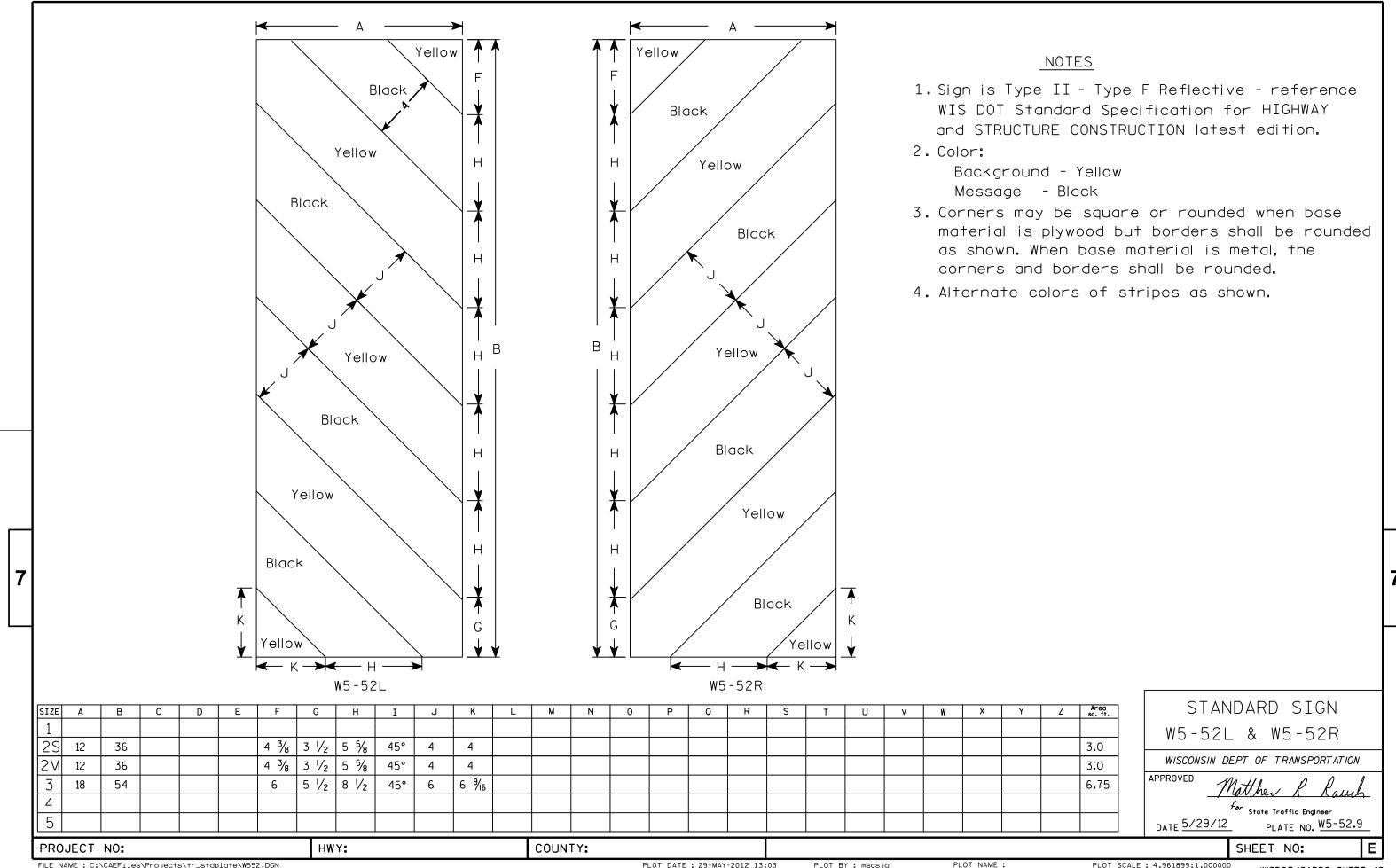
For State Traffic Engineer

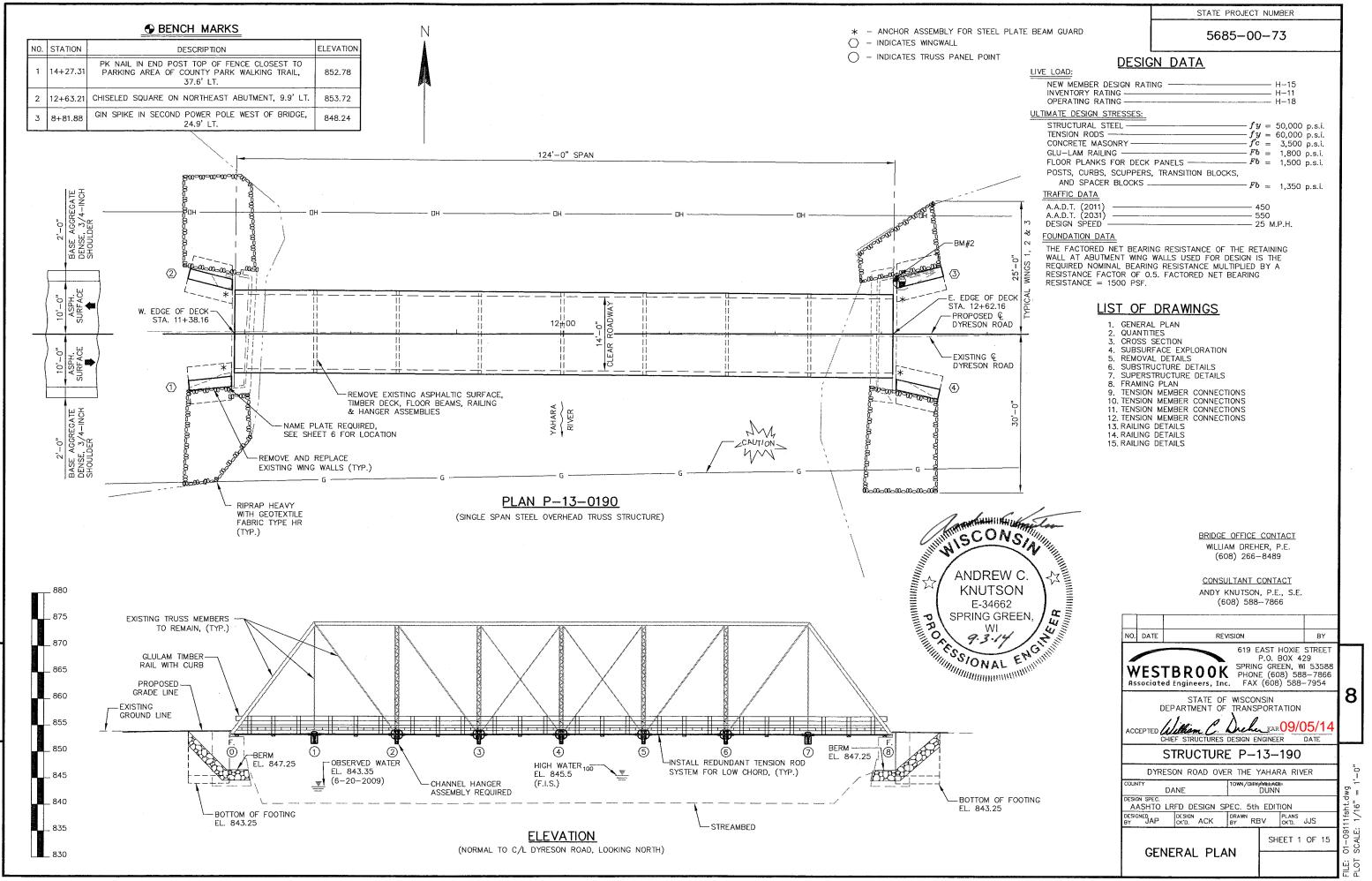
SHEET NO:

HWY:

PROJECT NO:

PLOT NAME :





8

PROFILE GRADE LINE, DYRESON ROAD

TOTAL ESTIMATED QUANTITIES

203.0600.S _M 206.1000 E 210.0100 E	BID ITEMS REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS (STA. 12+00) EXCAVATION FOR STRUCTURES BRIDGES P-13-0190	UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTALS
203.0600.S _M 206.1000 E 210.0100 E	MINIMAL DEBRIS (STA. 12+00) EXCAVATION FOR STRUCTURES BRIDGES P-13-0190					
210.0100 E						1
		LS				1
F00 0400 0	BACKFILL STRUCTURE	CY	51	51		102
502.0100 C	CONCRETE MASONRY BRIDGES	CY	10	10		20
502.5005 C	CONCRETE MASONRY ANCHORS, TYPE L, NO. 5	EA	6	6		12
502.5010 C	CONCRETE MASONRY ANCHORS, TYPE L, NO. 6	EA	10	10		20
505.0605 E	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	1,155	1,155		2,310
507.0200 T	TREATED LUMBER AND TIMBER	MBM			22	22
516.0500 R	RUBBERIZED MEMBRANE WATERPROOFING	SY	4	4		8
	STRUCTURE REPAINTING RECYCLED ABRASIVE STRUCTURE P-13-0190	LS				1
	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS STRUCTURE P-13-0190	LS				1
517.6001.S F	PORTABLE DECONTAMINATION FACILITY	EACH				1
606.0300 R	RIPRAP HEAVY	CY	30	35		65
612.0406 F	PIPE UNDERDRAIN, WRAPPED 6-INCH	LF	80	80		160
645.0120	GEOTEXTILE FABRIC, TYPE HR	SY	70	70		140
SPV.0085.01 S	STRUCTURAL STEEL HS GALVANIZED AND PAINTED	LB	130	130	14,540	14,800
	NON BID ITEMS					
	NON DID TILMS	CIZE				1/" 0 3/"
FILLER		SIZE				1/2" & 3/4"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

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

THE EXISTING STRUCTURE (P-13-0190) IS A SINGLE SPAN STEEL OVERHEAD TRUSS WITH AN OVERALL WIDTH OF 16.5 FT. AND AN OVERALL LENGTH OF 127.3 FT. THE EXISTING BRIDGE CAPACITY IS 6

ALL FIELD CONNECTIONS SHALL BE MADE WITH $\frac{1}{3}$ " DIAMETER FRICTION TYPE HIGH-TENSILE STRENGTH BOLTS UNLESS SHOWN OR NOTED OTHERWISE.

THE FINISHED GRADED SECTION SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR. (1897)

ALL WELDS SHALL CONFORM TO THE AWS D 1.5 BRIDGE WELDING CODE.

FIELD VERIFY ALL PERTINENT DIMENSIONS PRIOR TO ANY FABRICATION.

WHERE RIVET REMOVAL IS REQUIRED, REPLACE WITH EQUIVALENT DIAMETER A325 BOLT.

PRIOR TO PAINTING STRUCTURE, LOCATE ALL EXISTING HOLES IN TRUSS COMPRESSION MEMBERS AND GRIND THE HOLE EDGES TO A SMOOTH FINISH. INCLUDE IN THE BID ITEM "STRUCTURE REPAINTING RECYCLED

A325 BOLTS NOTED IN THE PLANS SHALL BE ROUND—HEAD TENSION CONTROL BOLTS. IT IS NOT NECESSARY TO SHEAR OFF THE BOLT SPLINE PROVIDED BOLTS ARE TENSIONED IN ACCORDANCE WITH WISDOT STANDARD SPECIFICATION 506.3.12.3; NOR IS IT NECESSARY TO USE A POWER FASTENING TOOL PROVIDED HAND TOOLS CAN DEVELOP THE REQUIRED BOLT TENSION.

DUE TO FIELD TOLERANCES, CUSTOM OR MODIFIED TOOLS MAY BE REQUIRED TO ACCOMPLISH THE WORK SHOWN IN THE PLANS.

ALL FABRICATED EQUIPMENT OR TOOLS WILL BECOME PROPERTY OF WISDOT UPON COMPLETION.

DATE

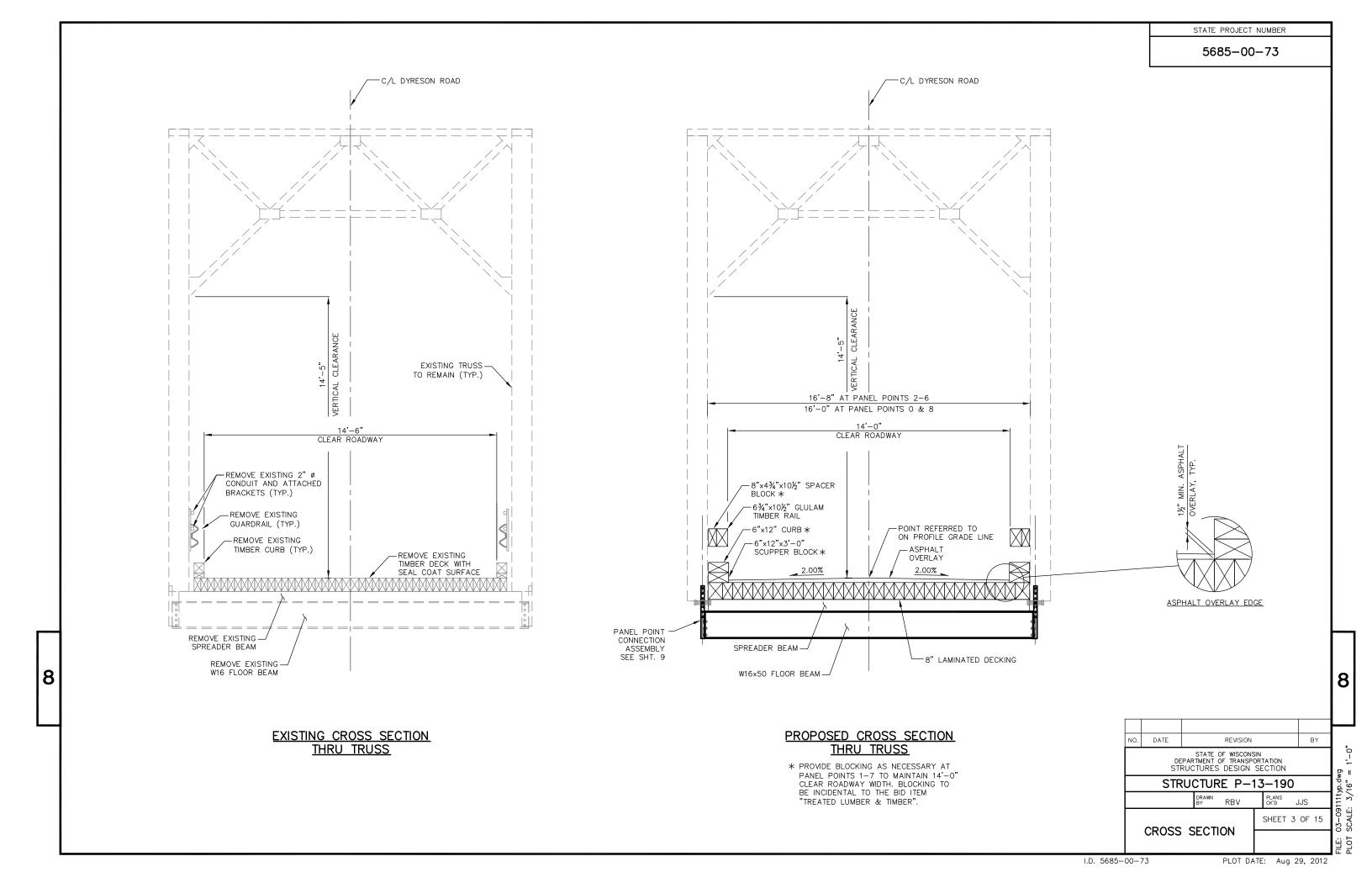
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

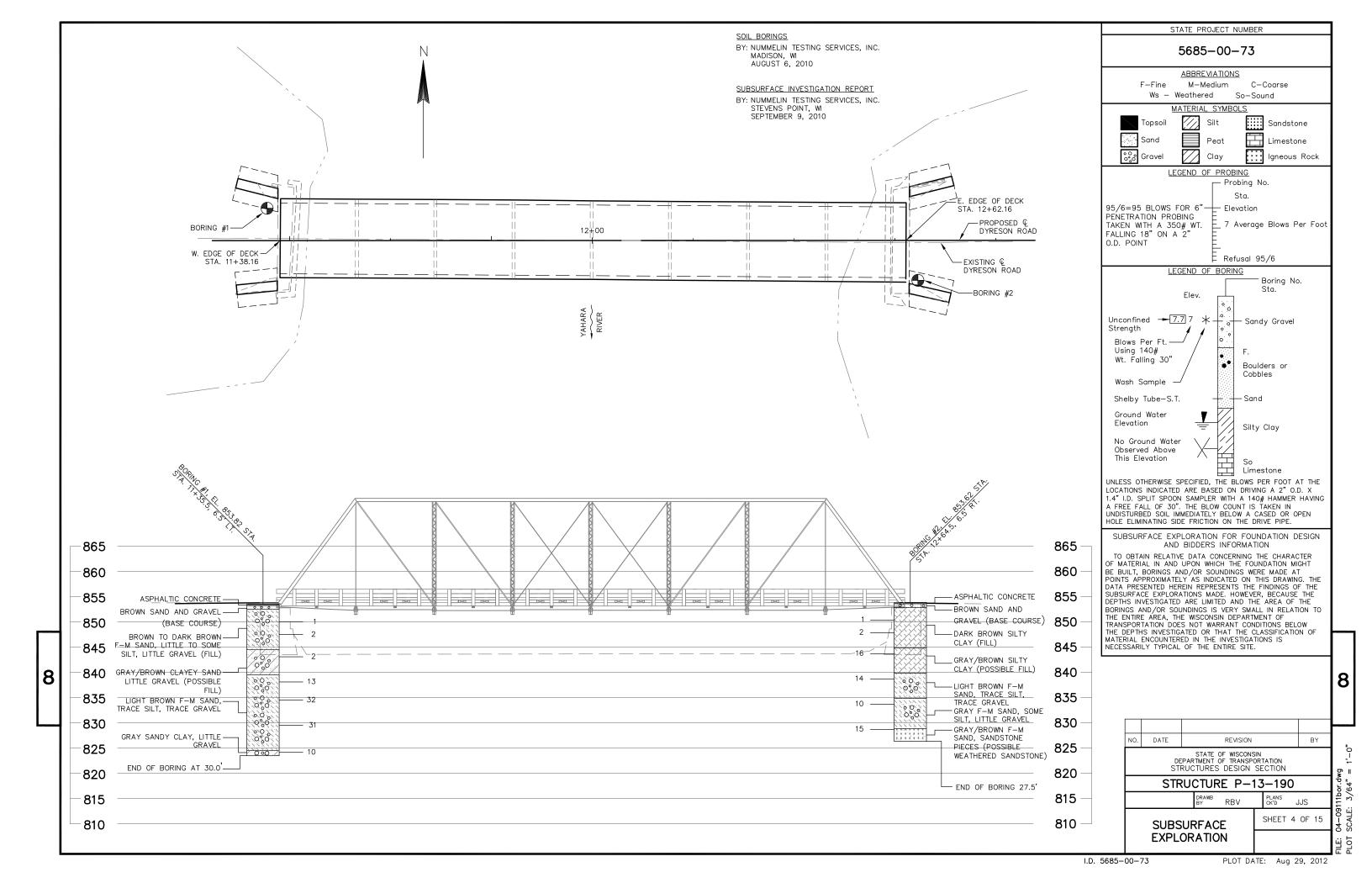
STRUCTURE P-13-190 RBV

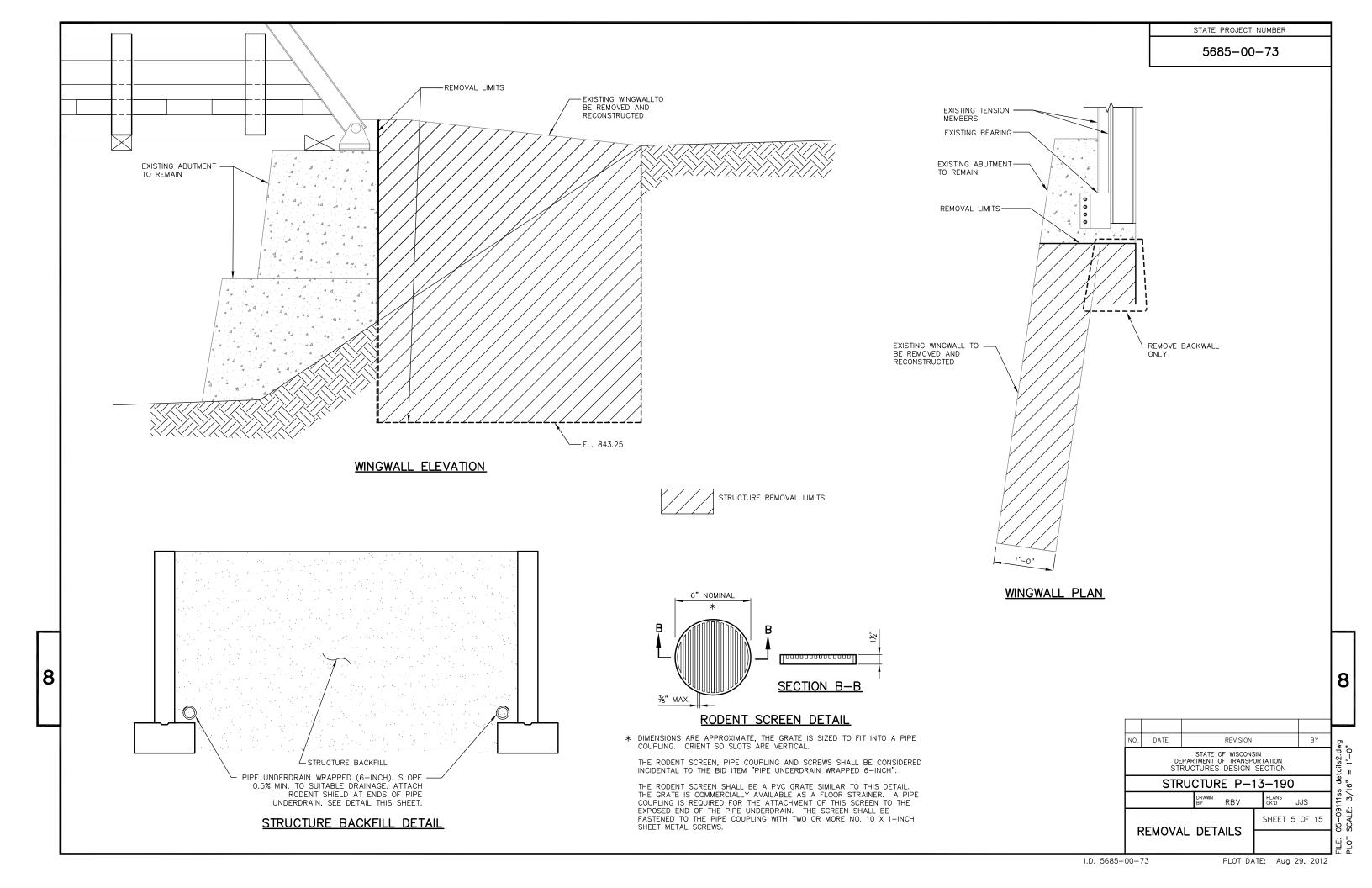
QUANTITIES

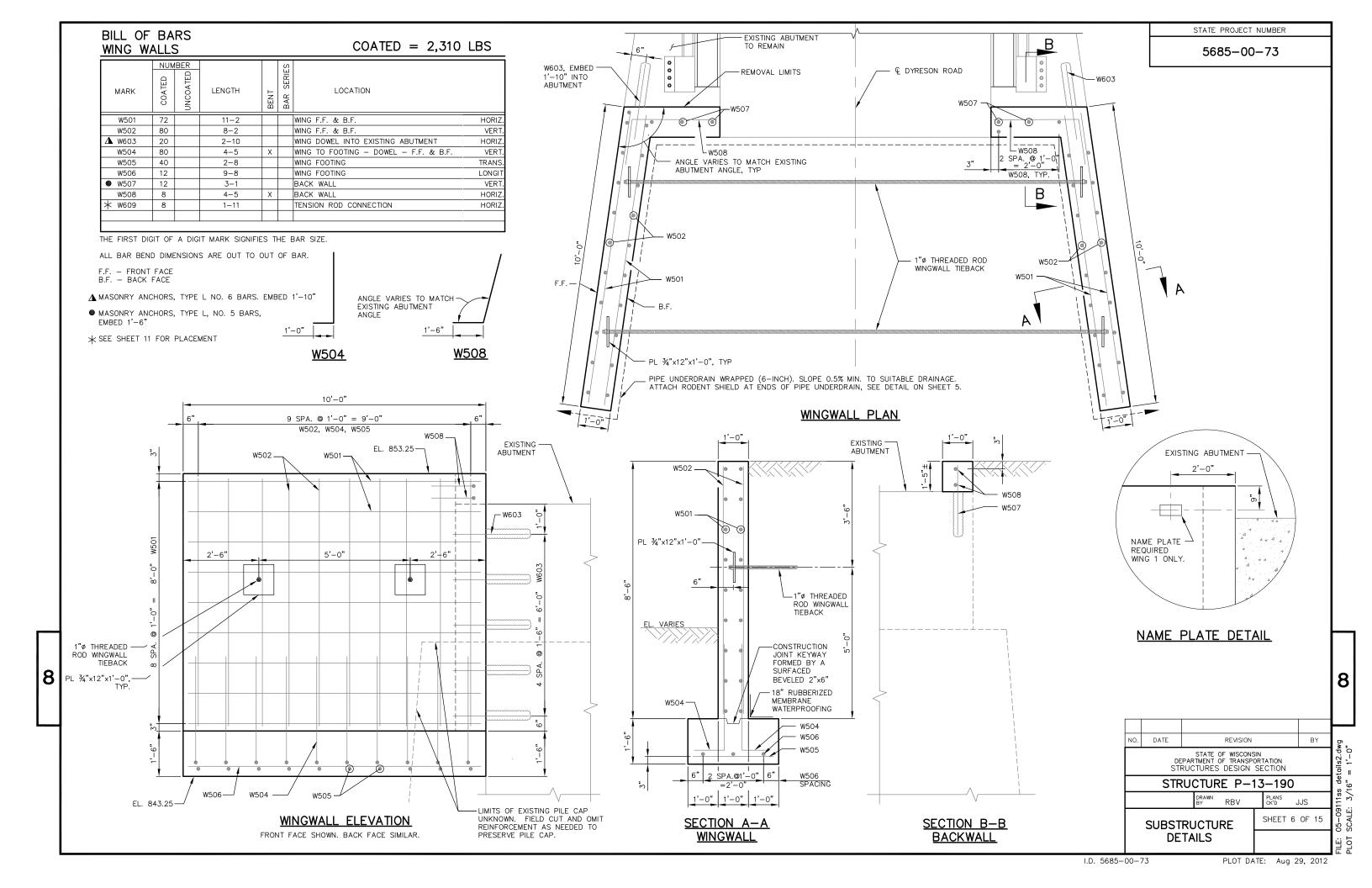
SHEET 2 OF 15

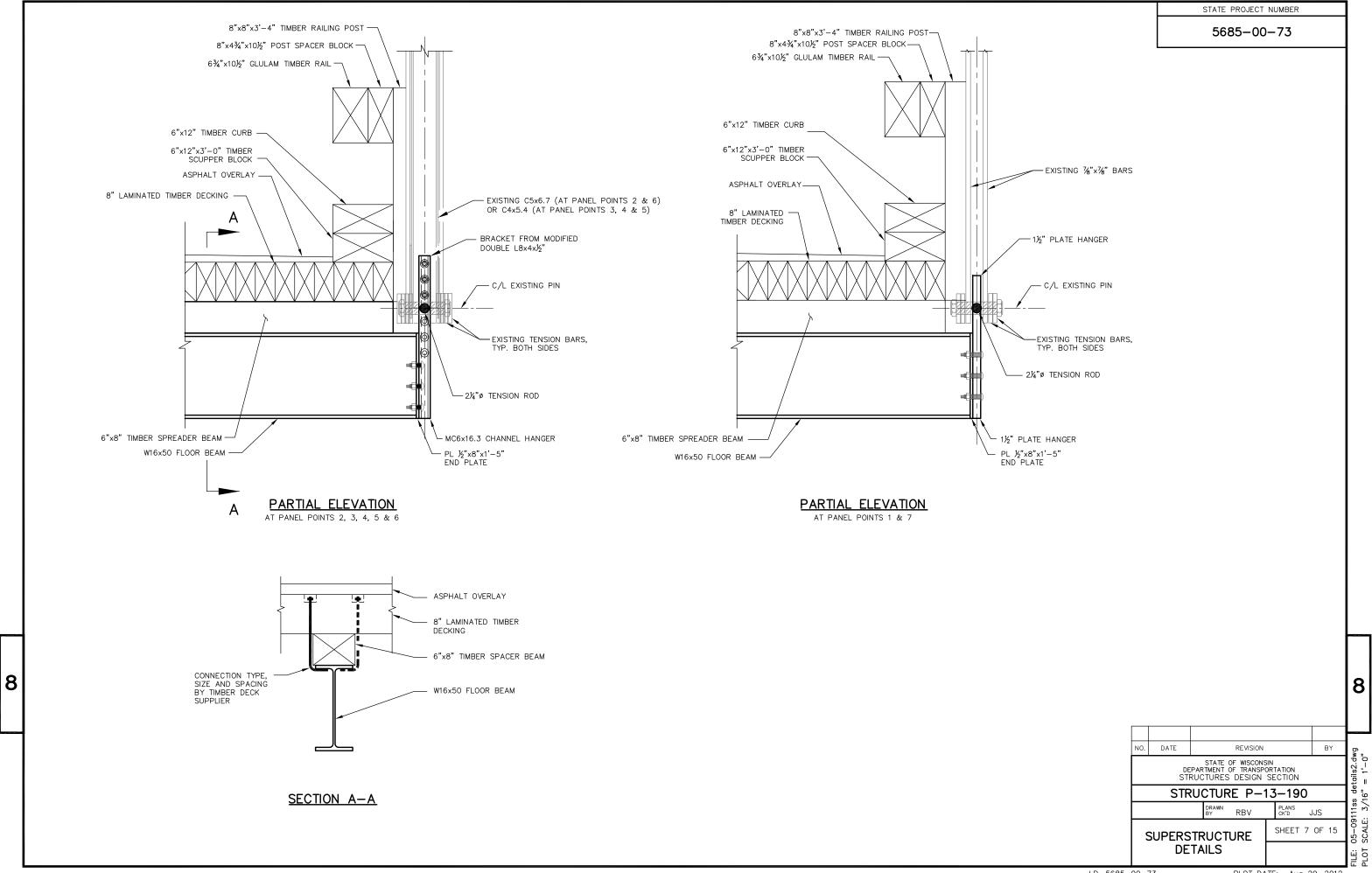
JJS

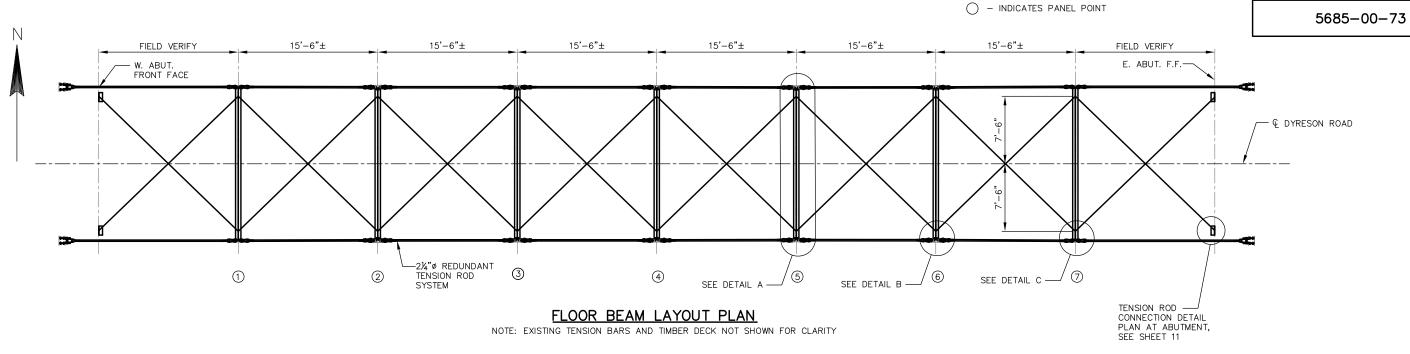










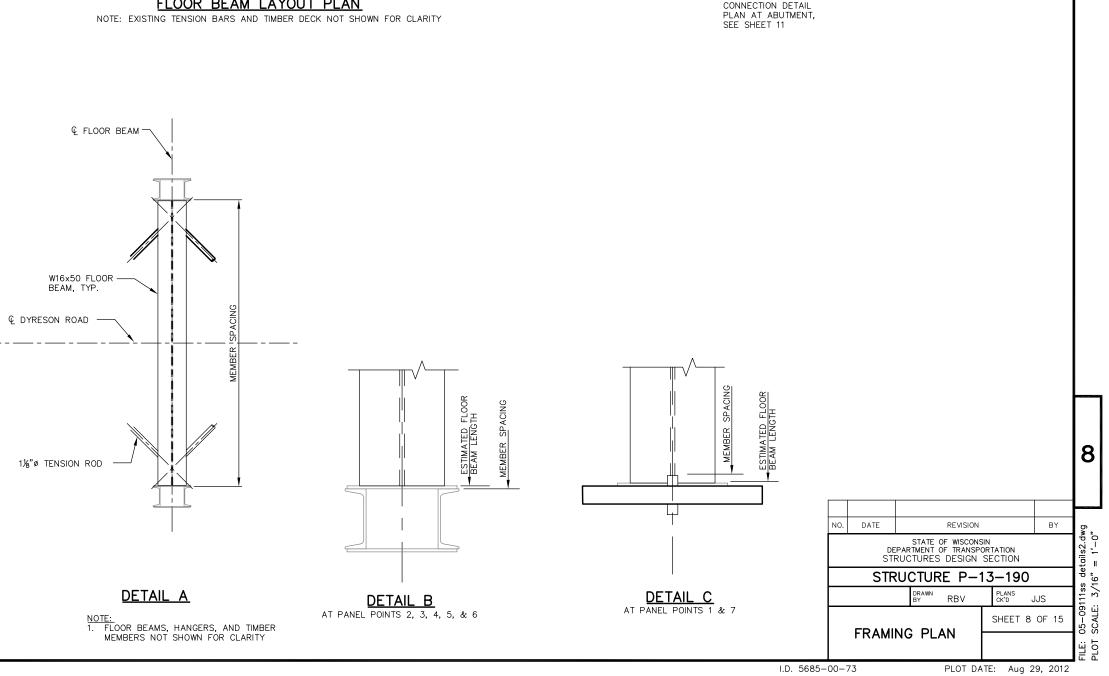


FL:	OOR BEAM LENG	TH
PANEL POINT NUMBER (TENSION/COMPRESSION)	MEMBER SPACING	EST. FLOOR BEAM LENGTH
1 (TENSION)	16'-8%"	16'-10¾"
2 (COMPRESSION)	16'-7¼"	16'-6¼"
3 (COMPRESSION)	16'-8¾ ₆ "	16'-7¾6"
4 (COMPRESSION)	16'−8¾ ₆ "	16'-7¾6"
5 (COMPRESSION)	16'-7¾"	16'-6¾"
6 (COMPRESSION)	16'-7"	16'-6"
7 (TENSION)	16'−9 ½ "	16'-11"

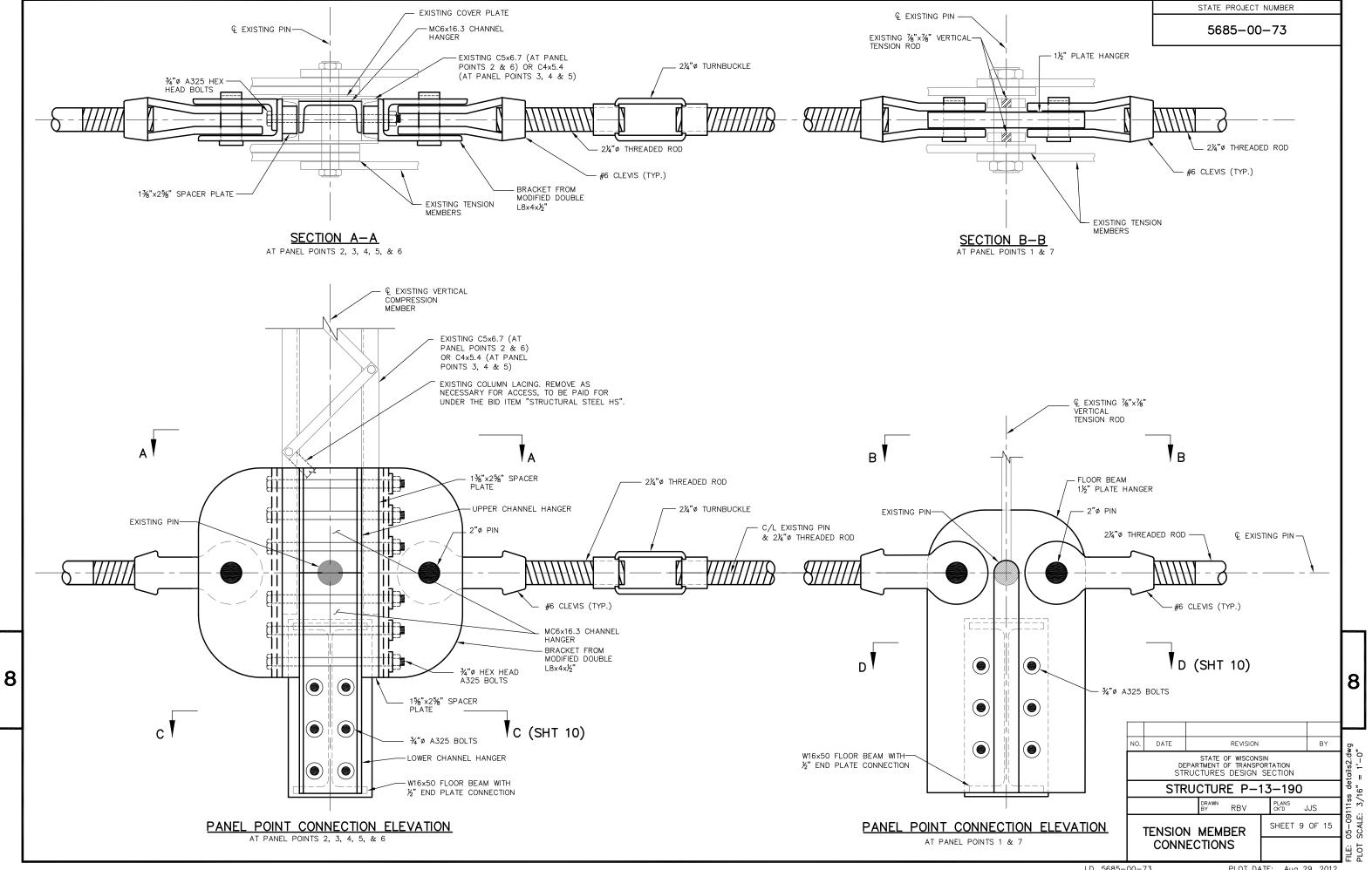
- NOTES:

 1. MEMBER SPACING WAS MEASURED IN THE FIELD FROM THE INSIDE FACE OF THE VERTICAL MEMBER ON THE NORTH SIDE OF THE BRIDGE TO THE INSIDE FACE OF THE VERTICAL MEMBER ON THE SOUTH SIDE OF THE BRIDGE APPROXIMATELY 4 FT ABOVE THE TOP OF THE DECK.

 2. FIELD VERIFY ALL MEMBER LENGTHS PRIOR TO FABRICATION.

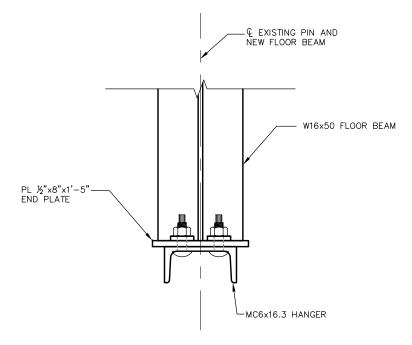


STATE PROJECT NUMBER

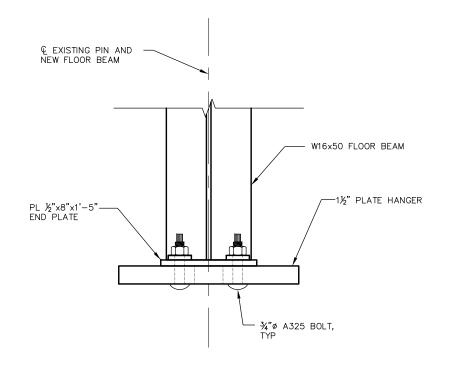


STATE PROJECT NUMBER

5685-00-73



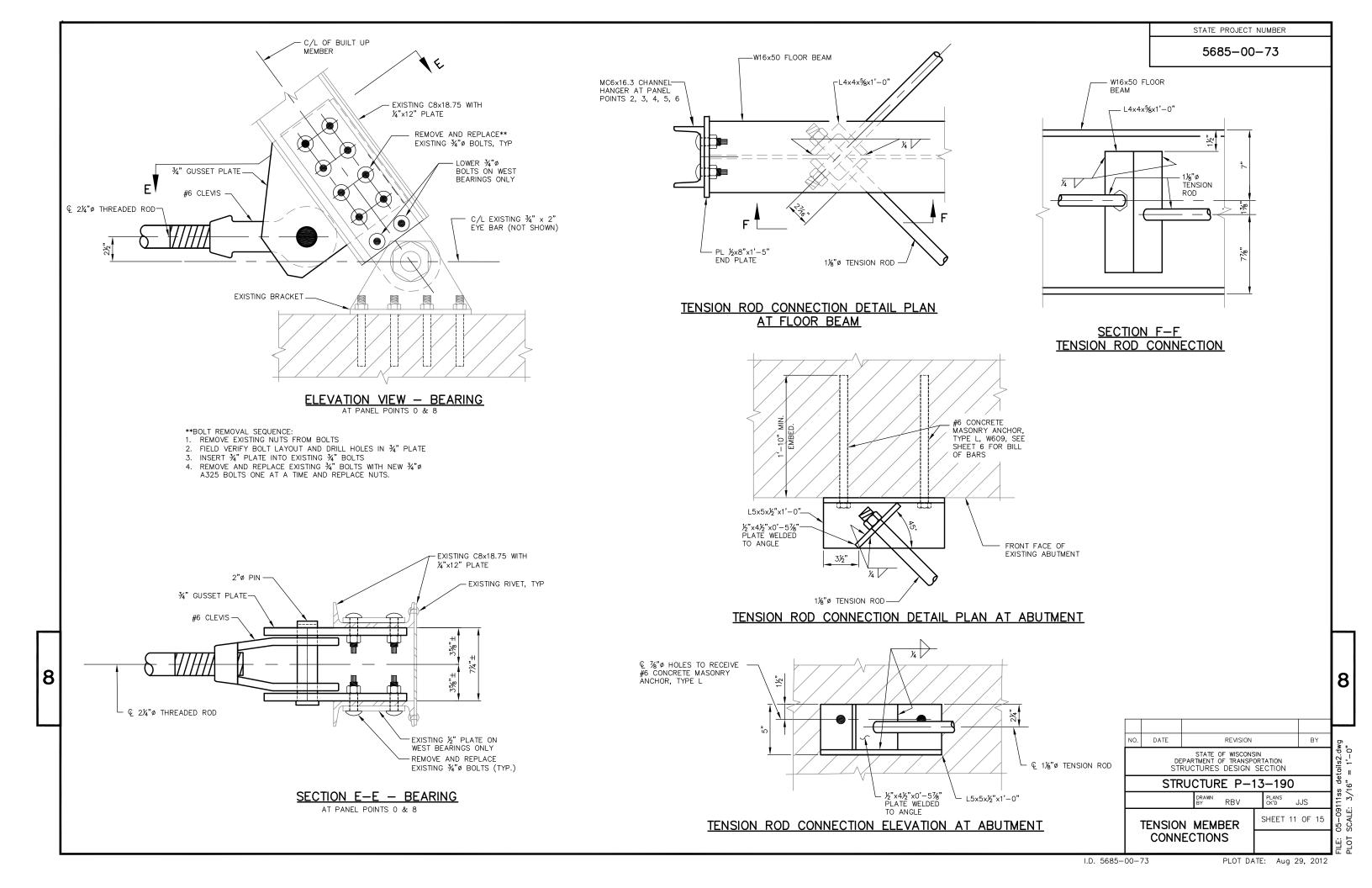
SECTION C-C
AT PANEL POINTS 2, 3, 4, 5, & 6

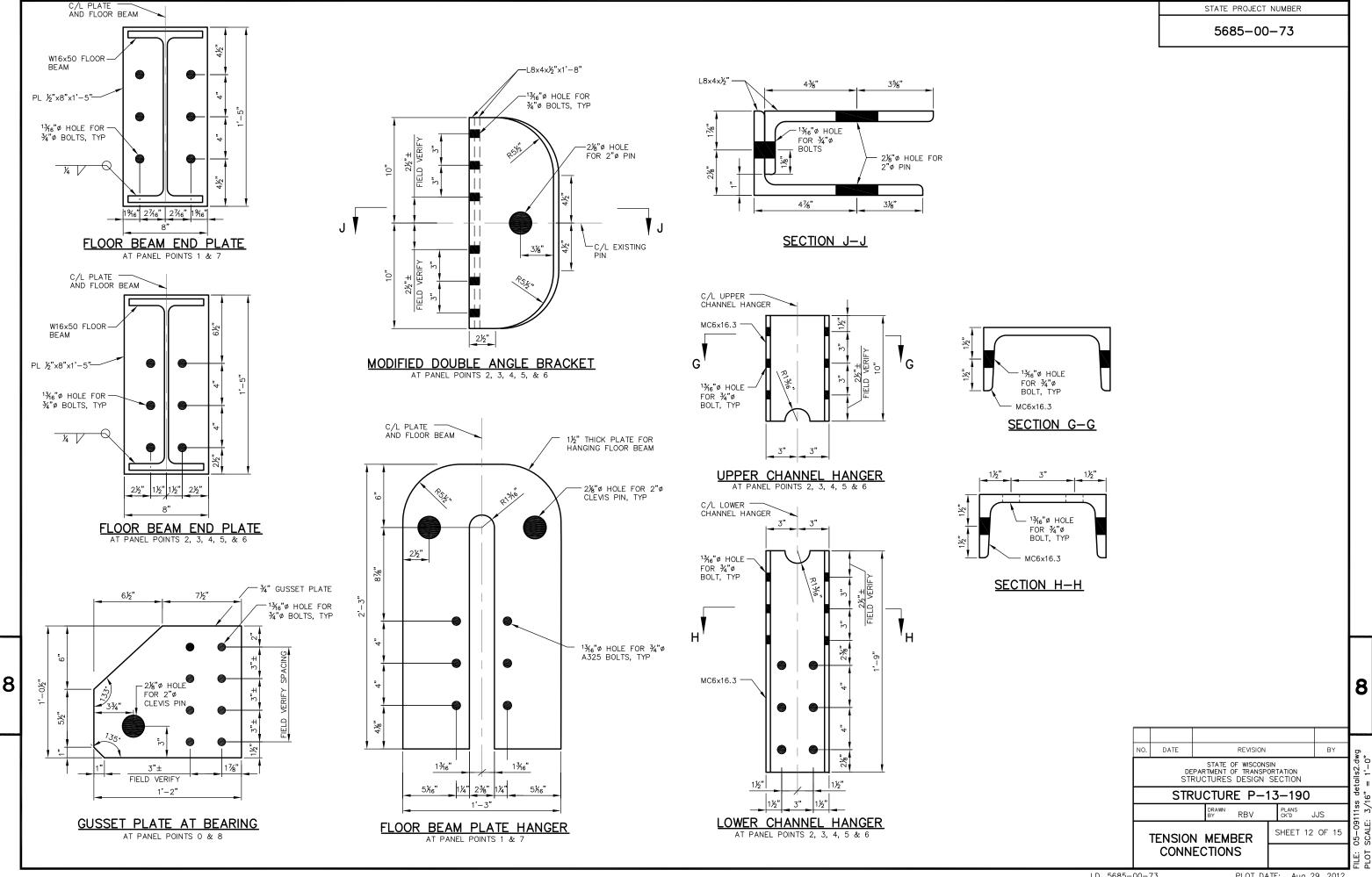


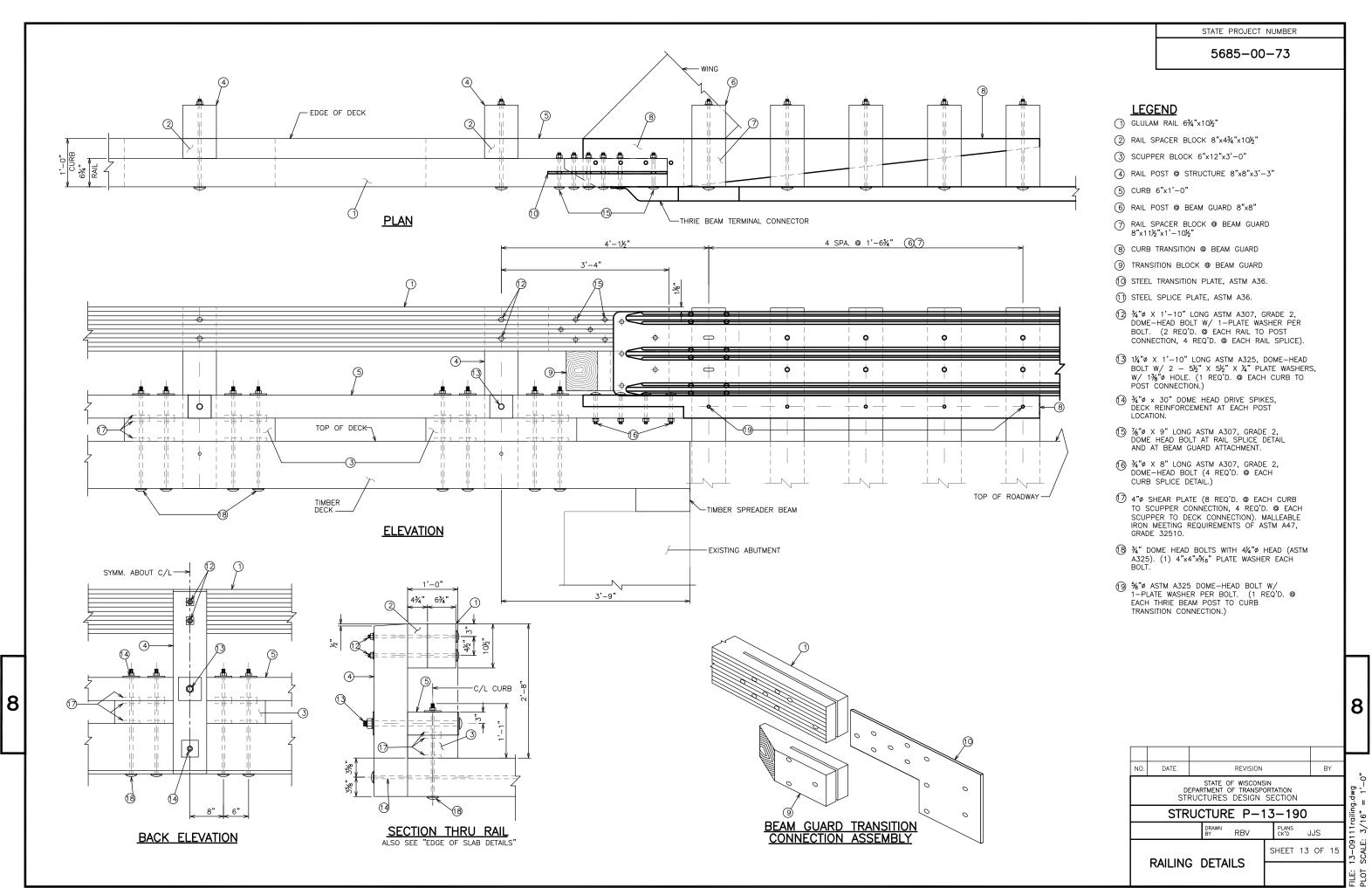
SECTION D-D

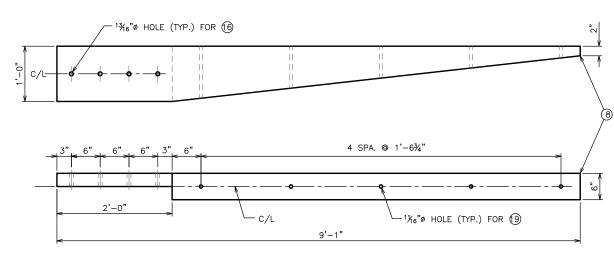
AT PANEL POINTS 1 & 7

8

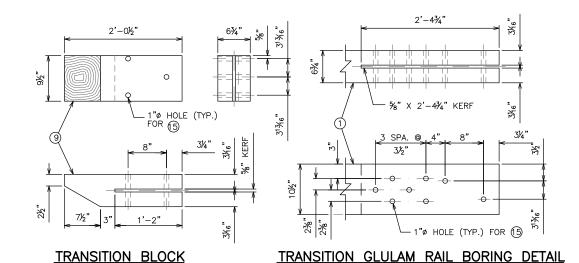


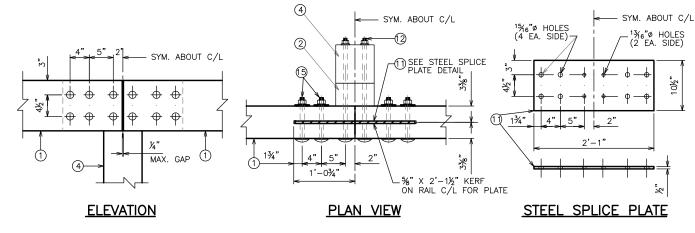






CURB TRANSITION





RAIL SPLICE DETAILS

NOTES

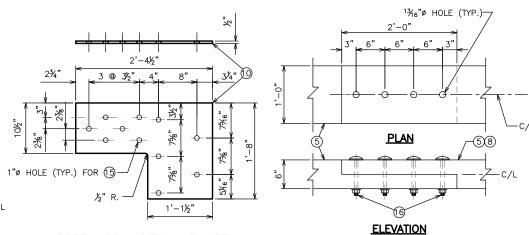
- 1. BID ITEM SHALL BE "TREATED LUMBER AND TIMBER" WHICH INCLUDES ALL ITEMS SHOWN EXCEPT ITEMS NO 6, 7 AND THRIE BEAM TERMINAL CONNECTOR.
- 2. DIMENSIONS GIVEN FOR GLUED-LAMINATED (GLULAM) TIMBER RAILS ARE ACTUAL DIMENSIONS.
- 3. DIMENSIONS FOR WOOD POSTS, CURBS AND SCUPPERS ARE GIVEN AS NOMINAL DIMENSIONS. ACTUAL DIMENSIONS MAY BE A MAXIMUM OF ½ INCH LESS THAN THE STATED NOMINAL DIMENSIONS. DIMENSION FOR SPACER BLOCK DEPTH ARE ACTUAL DIMENSIONS.
- 4. CURB AND RAIL SPLICES SHALL BE LOCATED SO THAT CURB AND RAIL MEMBERS ARE CONTINUOUS OVER NOT LESS THAN TWO POSTS. CURB SPLICES SHALL BE LOCATED A MINIMUM OF 1.5 POST SPACINGS AWAY FROM RAIL SPLICES. IT IS RECOMMENDED THAT GLULAM RAILS BE CONTINUOUS OVER THE LENGTH OF THE BRIDGE.
- 5. SAWN LUMBER AND GLULAM SHALL COMPLY WITH THE REQUIREMENTS OF AASHTO M168 AND SHALL BE PRESSURE TREATED WITH WOOD PRESERVATIVES IN ACCORDANCE WITH AASHTO M133 AND STANDARD SPECIFICATIONS.
- 6. BRIDGE RAIL SHALL BE HORIZONTALLY LAMINATED GLULAM, VISUALLY GRADED WESTERN SPECIES COMBINATION NO. 2, OR VISUALLY GRADED SOUTHERN PINE COMBINATION NO. 48. OTHER SPECIES AND GRADES OF GLULAM MAY BE USED, PROVIDED THE MINIMUM TABULATED VALUES ARE NOT LESS THAN THE FOLLOWING:

$$F_{b_{yy}} = 1,800 \text{ LB/IN}^2 \text{ E} = 1,800,000 \text{ LB/IN}^2$$

7. POSTS, CURBS, SCUPPERS, TRANSITION BLOCKS AND SPACER BLOCKS MAY BE SAWN LUMBER OR GLULAM. WHEN SAWN LUMBER IS USED, MATERIAL SHALL BE VISUALLY GRADED NO. 1 SOUTHERN PINE OR VISUALLY GRADED NO 1 DOUGLAS FIR-LARCH. GLULAM AND OTHER SPECIES AND GRADES OF SAWN LUMBER MAY BE USED, PROVIDED THE MINIMUM TABULATED VALUES ARE NO LESS THAN THE FOLLOWING:

$$F_b = 1,350 \text{ LB/IN}^2$$
 E = 1,500,000 LB/IN²

- 8. ALL STEEL COMPONENTS AND FASTENERS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M111 OR M232.
- 9. TO THE EXTENT POSSIBLE, ALL WOOD SHALL BE CUT, DRILLED, AND COMPLETELY FABRICATED PRIOR TO PRESSURE TREATMENT WITH PRESERVATIVES. WHEN FIELD FABRICATION OF WOOD IS REQUIRED OR IF WOOD IS DAMAGED, ALL CUTS, BORE HOLES, AND DAMAGE SHALL BE IMMEDIATELY TREATED WITH WOOD PRESERVATIVE IN ACCORDANCE WITH AASHTO M133 AND STANDARD SPECIFICATIONS.
- 10. UNLESS NOTED, MALLEABLE IRON WASHERS SHALL BE PROVIDED UNDER BOLT HEADS AND UNDER NUTS THAT ARE IN CONTACT WITH WOOD. WHEN THE SIZE AND STRENGTH OF THE HEAD ARE SUFFICIENT TO DEVELOP CONNECTION STRENGTH WITHOUT WOOD CRUSHING, WASHERS MAY BE OMITTED UNDER HEADS OF DOME—HEAD TIMBER BOLTS.
- 11.TOPS OF RAIL POSTS AND TOP OF THE RAIL SPLICE PLATE KERF SHALL BE SEALED WITH ROOFING CEMENT OR OTHERWISE PROTECTED FROM DIRECT EXPOSURE TO WEATHER.
- 12. DESTROY THREADS ON ALL BOLTS WITH A CENTER PUNCH AFTER TIGHTENING NUT. EXPOSED BOLT PROJECTION OVER 1" SHALL BE CUT OFF. REPAIR END OF BOLT BY PAINTING WITH ZINC RICH PRIMER.
- 13. WHEN PLACING OVERLAY (FWS) ON TOP OF EXISTING SLAB, THE THICKNESS OF THE OVERLAY MUST BE TAPERED NEAR THE VICINITY OF THE RAILING TO MAINTAIN THE REQ'D. (CRASH TESTED) DISTANCE FROM TOP OF SLAB TO TOP OF RAIL TO 32 INCHES.
- 14. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 2 (TL-2).



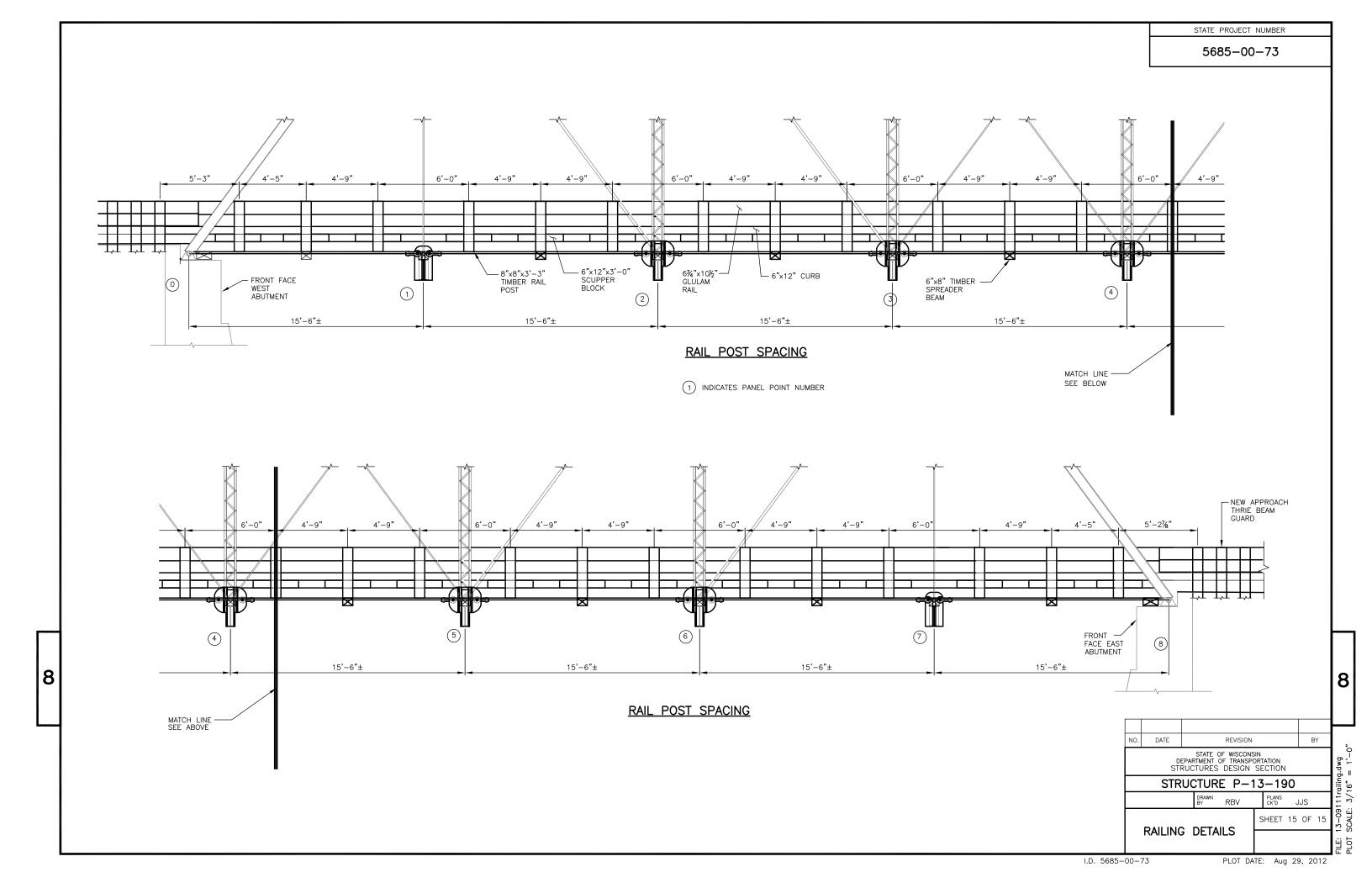
STEEL TRANSITION PLATE

CURB SPLICE DETAIL

BILL OF TREATED LUMBER - RAILING

ITEM	NO. REQ'D.	SIZE	LENGTH	мвм
GLULAM RAIL	2	6¾" X 10½"	124'-0"	1.47
RAIL SPACER BLOCK	48	8" X 4¾"	10½"	0.14
SCUPPER BLOCK	48	6" X 12"	3'-0"	0.87
RAIL POST	48	8" X 8"	3'-3"	0.86
CURB	2	6" X 12"	124'-10"	1.50
CURB TRANSITION	4	6" X 12"	9'-1"	0.22
TRANSITION BLOCK	4	6¾" × 9½"	2'-0½"	0.05
TOTAL MBM				5.09

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-	NO.	DATE		REVISION			В	ΙΥ	
Ī			STATE (EPARTMENT RUCTURES		ORI		•		g.dwg
		STR	UCTUR	E P-	13	190			ailing.
			DRAWN BY	RBV		PLANS CK'D	JJS		111ra
		RAILING	, DETA	11 C	(,)	SHEET 14	OF	15	13-09111railing.dwg
		NAILING	DEIA	IILO					HLE:
- ^	o -	77		DLOT D	-			110	



			AREA (SF)				Incremental Vol (C	Y) (Unadjusted)			Cumulative Vol (CY)				
	Real Station		Cut	Salvaged/Unusable	Fill	EBS	Cut	Salvaged/Unusable	Fill	EBS	Cut	Expanded Fill	Expanded EBS Backfill	Reduced EBS In Fill	Mass Ordinat
STATION	Real Station	Distance	Cut	Pavement Material		LDS		Pavement Material		LBS	1.00	1.3	1.30	0.80	
							Note 1	Note 2	Note 3		Note 1		Note 5	Note 7	Note 8
7+90	790		23	0	5	0	0	0	0	0	0	0	0	0	0
8+00	800	10	23	0	5	0	9	0	2	0	9	2	0	0	6
8+50	850	50	12	0	9	0	33	0	13	0	42	19	0	0	23
9+00	900	50	1	0	28	0	12	0	34	0	54	63	0	0	-9
9+50	950	50	2	0	74	0	3	0	94	0	57	186	0	0	-129
10+00	1000	50	0	0	57	0	2	0	121	0	59	344	0	0	-284
10+50	1050	50	1	0	62	0	1	0	111	0	60	488	0	0	-427
11+00	1100	50	23	0	35	0	22	0	90	0	83	605	0	0	-522
11+38.16	1138	38	22	0	59	0	32	0 0 0	67	0	114	692	0	0	-577
						Column totals	114	0	532	0					

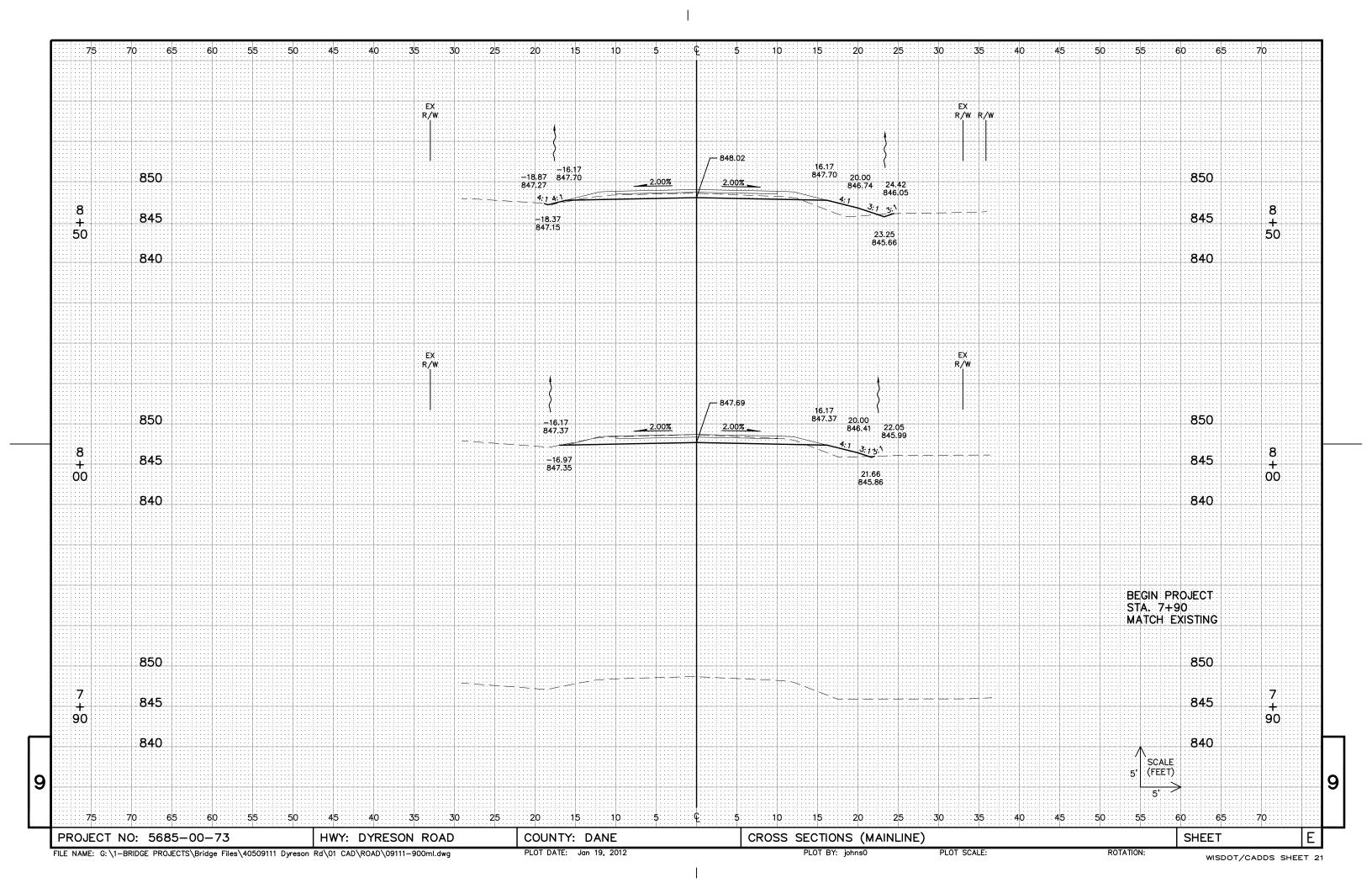
			AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				
	Real Station		Cut	ilvaged/Unusab	Fill	EBS	Cut	Salvaged/Unusable	Fill	EBS	Cut	Expanded Fill	Expanded EBS Backfill	Reduced EBS In Fill	Mass Ordinate
STATION		Distance		Pavement Material				Pavement Material	7.70	75.5	1.00	1.3	1.30	0.80	
							Note 1	Note 2	Note 3		Note 1		Note 5	Note 7	Note 8
12+62.16	1262		28.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
13+00	1300	38	26.5	0.0	0.0	0.0	38	0	0	0	38	0	0	0	38
13+50	1350	50	17.9	0.0	41.0	0.0	41	0	38	0	79	49	0	0	30
13+75	1375	25	17.9	0.0	41.5	0.0	17	0	38	0	96	99	0	0	-3
						Column totals	96	0	76	0					

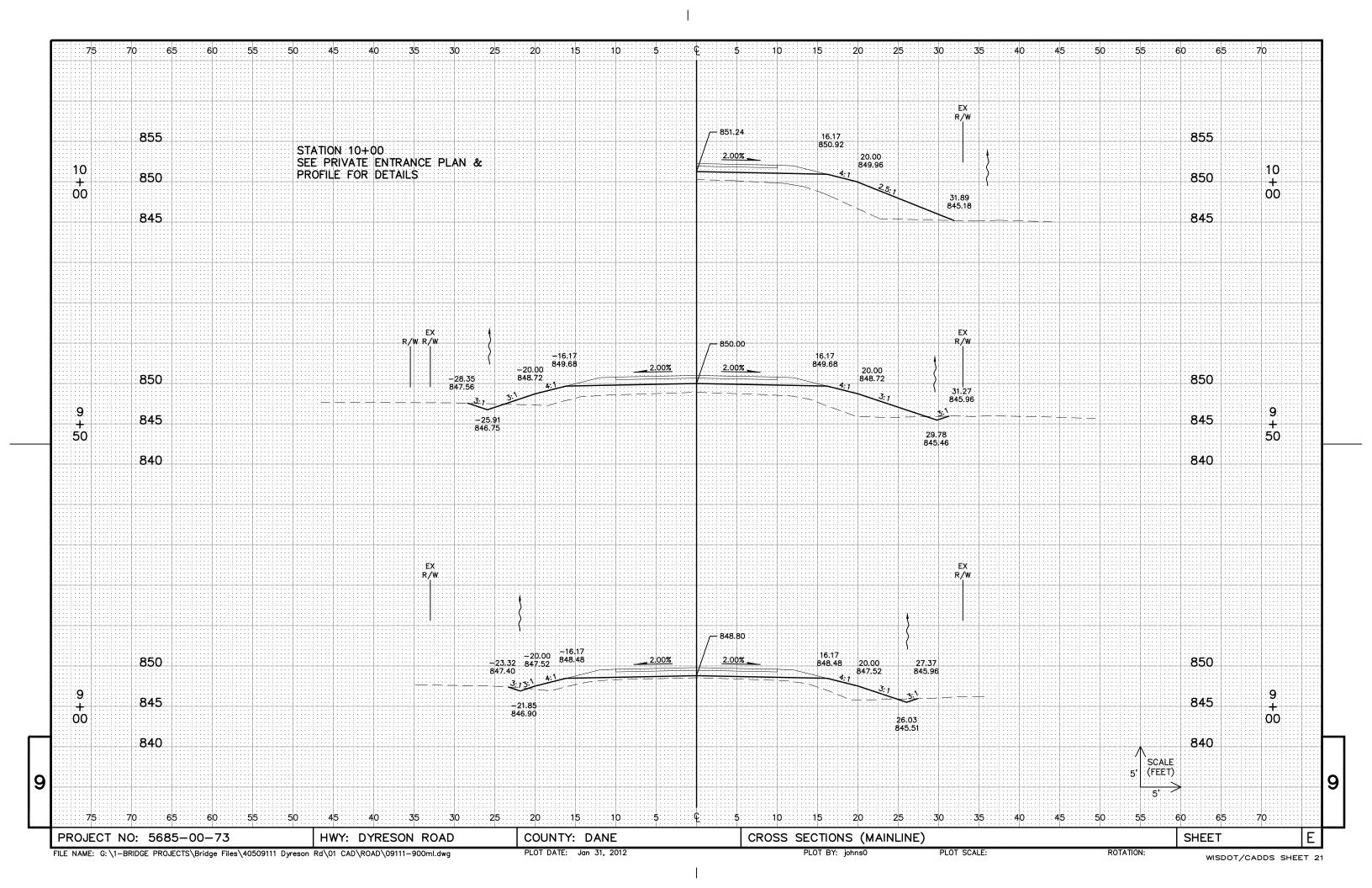
	2		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				
STATION	Real Station	Distance	Cut	ilvaged/Unusab Pavement Material	Fill	EBS	Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Mass Ordinate
F04 : 00	5000	_		0.0	10.1		Note 1	Note 2	Note 3	•	Note 1	•	Note 5	Note /	Note 8
50A+00	5000		0.0	0.0	49.4	0.0	0	0	0	0	0	0	0	0	0
50A+50	5050	50	0.0	0.0	19.0	0.0	0	0	63	0	0	82	0	0	-82
51A+00	5100	50	6.0	0.0	0.0	0.0	6	0	18	0	6	105	0	0	-100
51A+25	5125	25	9.0	0.0	0.0	0.0	7	0	0	0	13	105	0	0	-93
						Column totals	13	0	81	0					

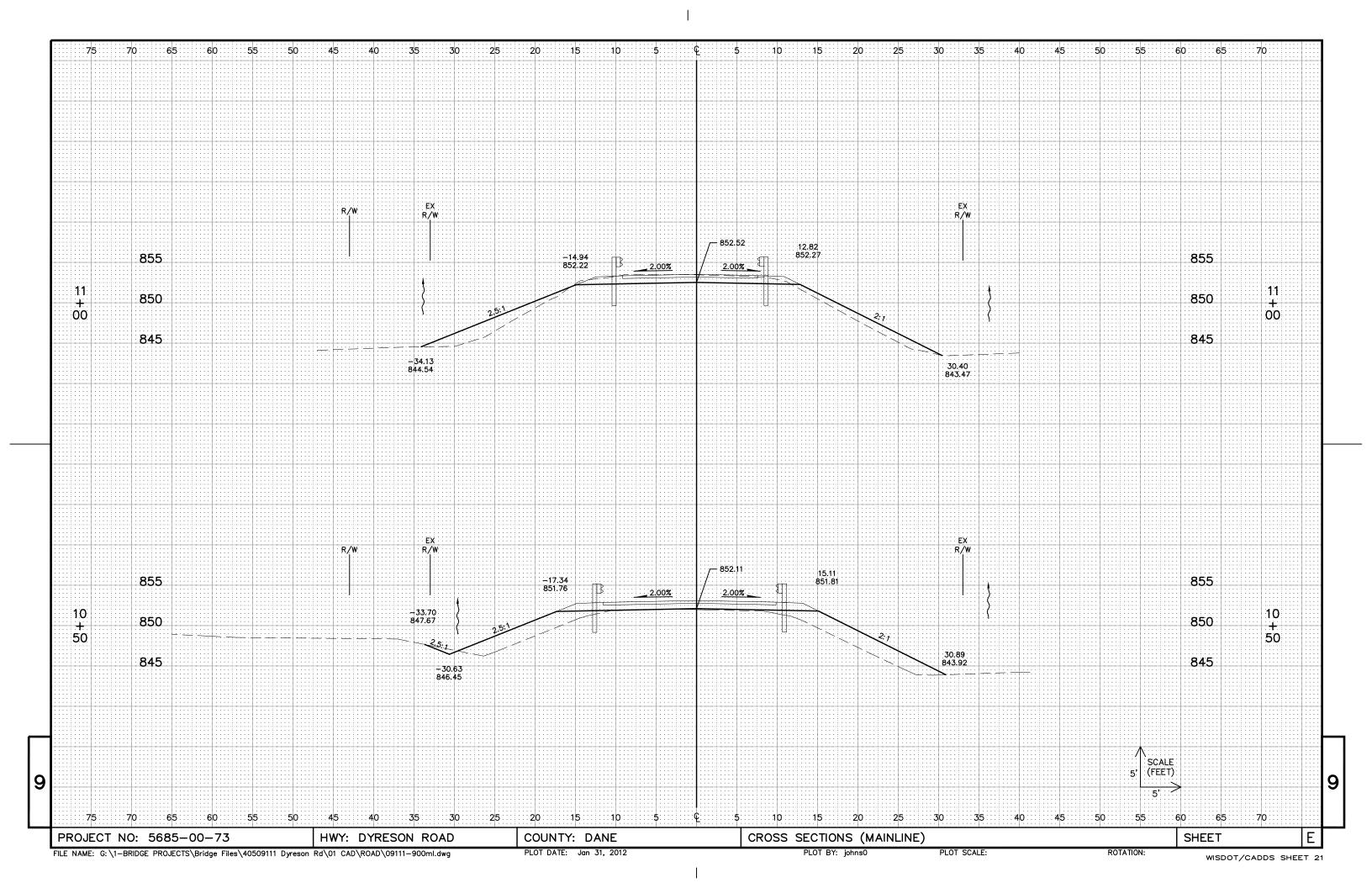
Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Salvaged/Unusable Pavement Material	This does not show up in cross sections
3 - Fill	Does not include Unusable Pavement Exc volume
4 - Expanded Marsh Backfill	Will be backfilled with Granular Backfill (or Cut, or Borrow)
5 - Expanded EBS	Will be backfilled with Granular Backfill (or Cut, or Borrow)
6 - Reduced Marsh in Fill	Reduced Marsh Excavation that can be used in Fill
7 - Reduced EBS in Fill	Reduced EBS Excavation that can be used in Fill
8 - Mass Ordinate	If Marsh or EBS to be backfilled with Cut or Borrow: [(Cut + Marsh Exc + EBS) - ((Fill - Reduced Marsh in Fill) - (Reduced EBS in Fill) - Expanded Rock) * Fill Factor)]
8 - Mass Ordinate	If Marsh and EBS to be backfilled with Granular: [(Cut + EBS + Marsh Exc) - ((Fill - (Reduced Marsh in Fill) - (Reduced EBS in Fill) - (Expanded Rock)) * Fill Factor))]
8 - Mass Ordinate	If Marsh and EBS to be backfilled with Granular: [(Cut) - ((Fill - Expanded Rock) * Fill Factor))]
8 - Mass Ordinate	If Marsh and EBS to be backfilled with Cut or Borrow: [(Cut) - ((Fill - Expanded Rock) Fill Factor))]

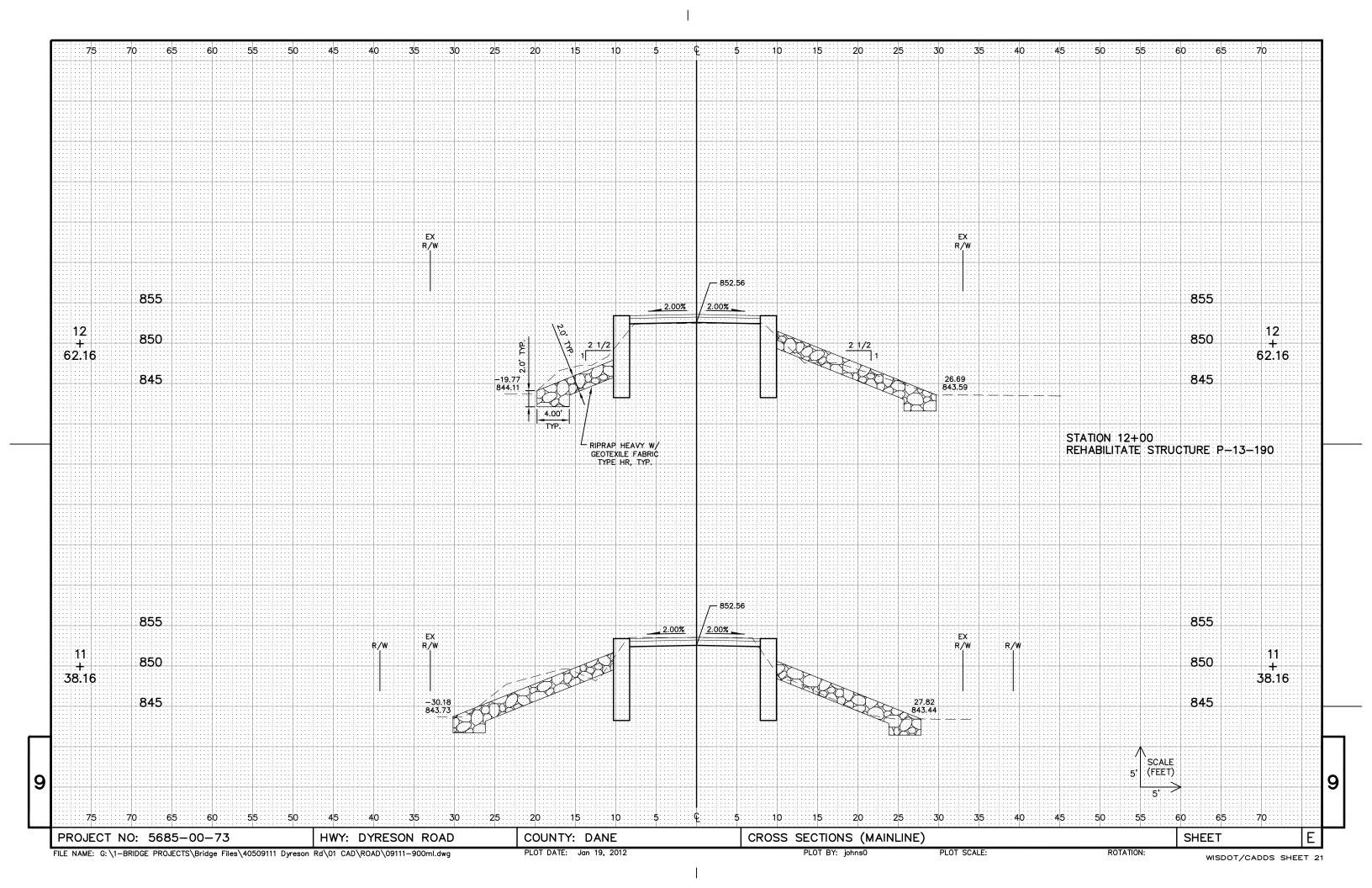
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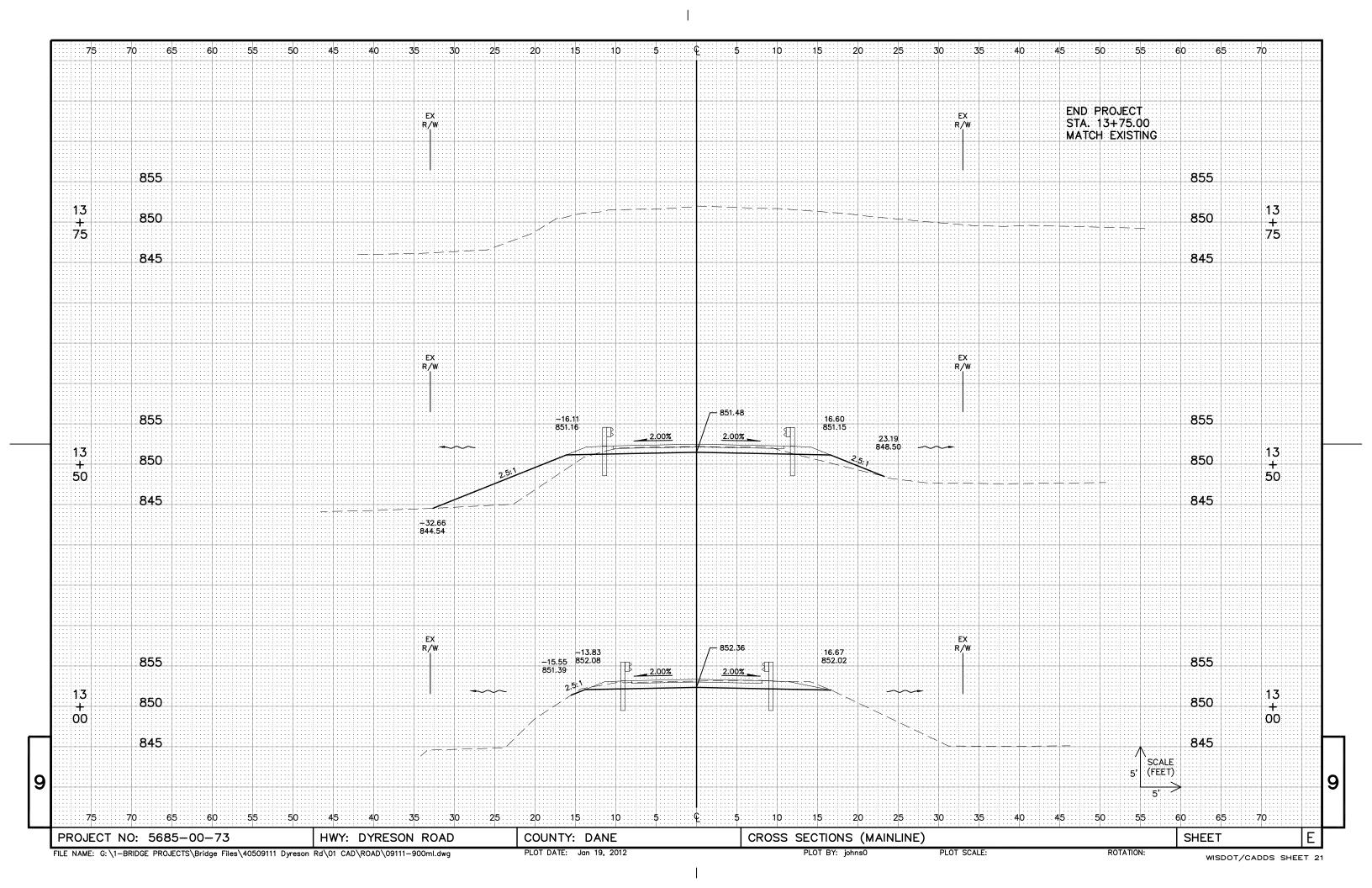
COUNTY: DANE EARTHWORK SHEET PROJECT NO: 5685-00-73 HWY: DYRESON ROAD PLOT BY: johns0 ROTATION:

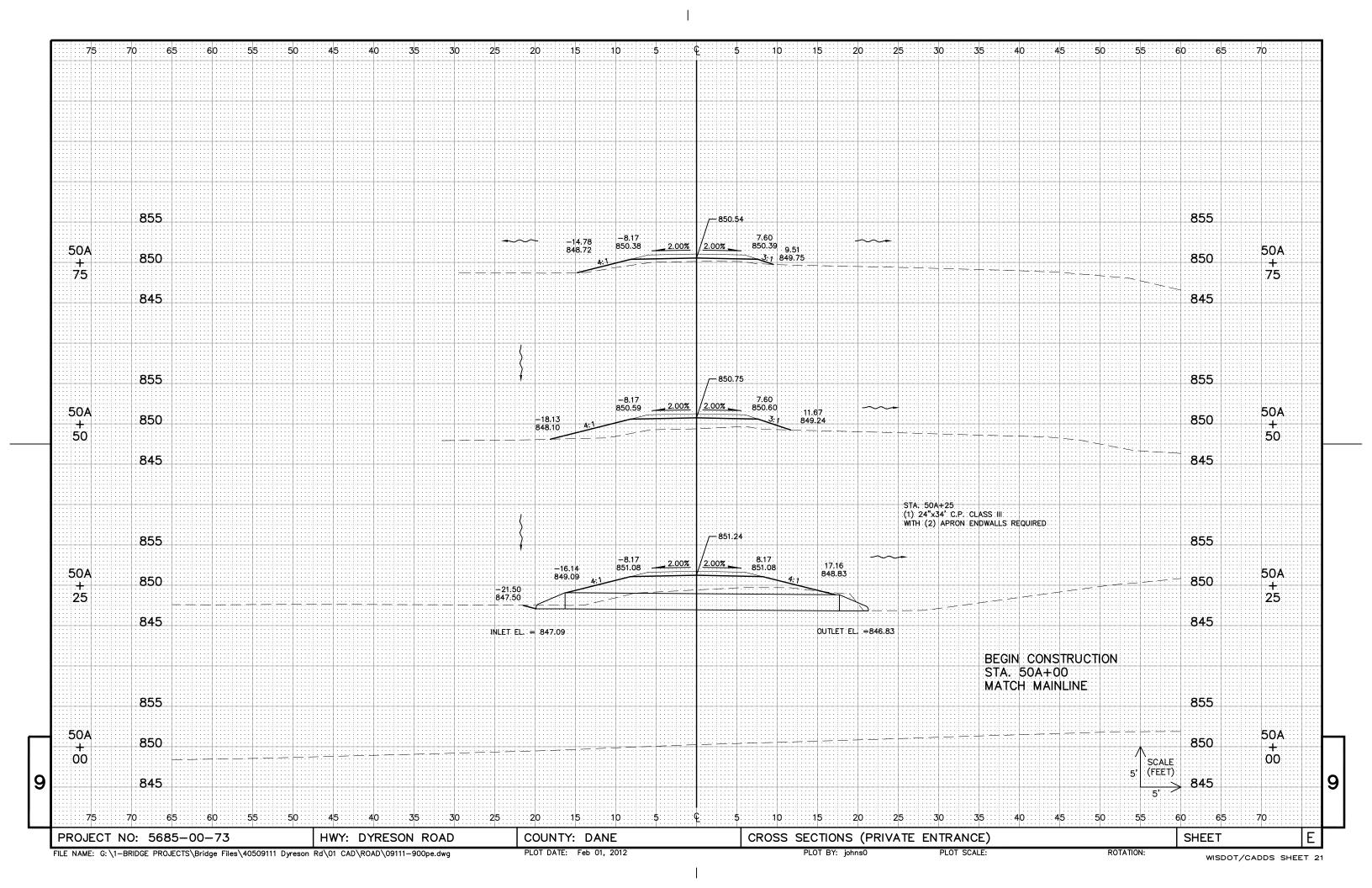


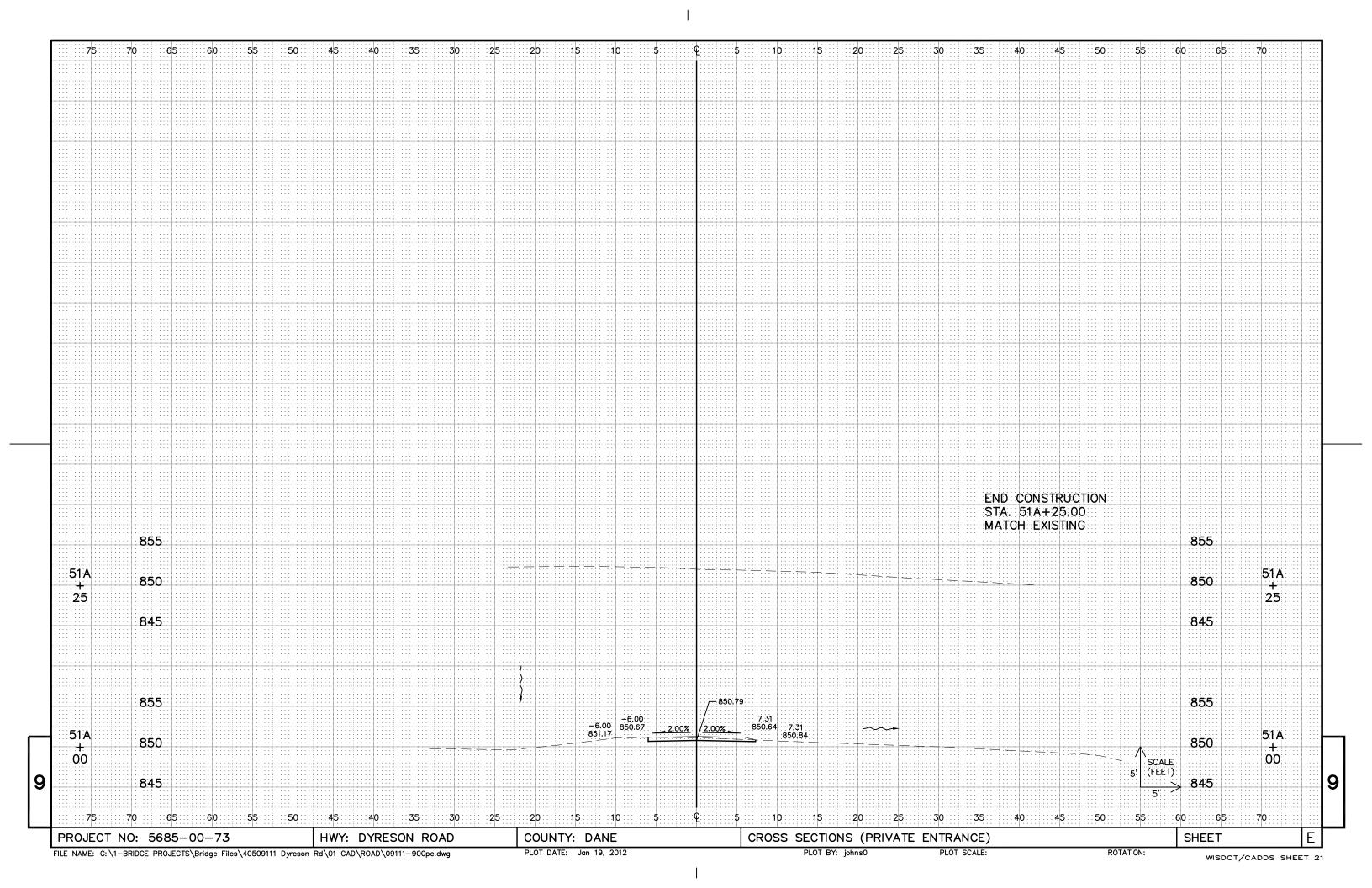














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