EAU	APRIL 2022 ORDER OF SHEETS	STATE OF WISCONSIN
PROJE	Section No. 1 Title Section No. 2 Typical Sections and Details	DEPARTMENT OF TRANSPORTATION
CT ID:	Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantities Section No. 4 Right of Way Plat	PLAN OF PROPOSED IMPROVEMENT
7854-0	Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings Section No. 7 Sign Plates Section No. 8 Structure Plans Section No. 9 Computer Earthwork Data Section No. 9 Cross Sections	T PINE VALLEY, FAIRGROUND AVE JACK CREEK BRIDGE, B-10-0400 LOC STR
0-7		CLARK COUNTY
2		STATE PROJECT NUMBER 7854-00-72
		R-2-W R-1-W RIDGE
	PROJECT LOCATION DESIGN DESIGNATION 7854-00-02 A.A.D.T. 2022 90 A.A.D.T. 2042 99 D.H.V. = 12 D.D = 60/40	RD WALKER RD MAPLE RD Y= 338 X = 689
COUNTY:	T. = 10% DESIGN SPEED = 55 MPH ESALS = 22000	T-24-N RD 95 SAND RD STRUCT
CLARK	CONVENTIONAL SYMBOLS PLAN CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT	PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH CULVERT (Profile View) UTILITIES ELECTRIC FIGER OPTIC GRADE CULVERT (Profile View) CULVERT (Pr
	(BOX OF PIPE) COMBUSTIBLE FLUIDS	SANITARY SEWER SAN STORM SEWER SS
		TELEPHONE T SCALE 1.0 Mill HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISL WATER W COORDINATE REFERENCE SYSTEM (WISCRS), CLARK COONNATE REFERENCE SYSTEM (WISCRS), CLARK COONNATE REFERENCE SYSTEM (WISCRS), CLARK COONNATES, GRID BEARINGS, AND GRID DISTANCES. NAD33 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN UTILITY PEDESTAL X TOTAL NET LENGTH OF CENTERLINE = 0.027 MI ARE THE SAME AS GROUND DISTANCES. ELEVATIONS AF POWER POLE L TOTAL NET LENGTH OF CENTERLINE = 0.027 MI ARE THE SAME AS GROUND DISTANCES. ELEVATIONS AF
	WOODED OR SHRUB AREA 🖌 🔪	TELEPHONE POLE 💋

FILE NAME : I:\CLIENTS-MENO\W\W3900 WDOT NW REGION - EAU CLAIRE\027 7854-00-02 T PINE VALLEY, FAIRGROUND AVE, JACK CREEK BRIDGE\78540002\SHEETSPLAN\010101-TI.DWG PLOT DATE :

ATE : 10/28/2021 10:03 AM

PLOT BY : MIKE LAPEAN

PLOT NAME :



GENERAL NOTES

2

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

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

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

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE COVERED WITH SALVAGED TOPSOIL, FERTILIZED, SEEDED, AND COVERED WITH EROSION MAT.

THE WISCONSIN DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR A MONUMENT WHICH SHALL BE SET IN THE STRUCTURE AS DESIGNATED BY ENGINEER.

DNR CONTACT

DNR BLACK RIVER FALLS SERVICE CENTER 910 STATE HIGHWAY 54 BLACK RIVER FALLS, WI 54615-5450 ATTN: BRADLEY BETTHAUSER (715) 213-9064 PH: EMAIL: bradley.betthauser@wisconsin.gov

DESIGN CONSULTANT CONTACT

CEDAR CORPORATION 604 WILSON AVENUE MENOMONIE, WI 54751 ATTN: TROY L. PETERSON, P.E. PH: (715) 235-9081 EMAIL: troy.peterson@cedarcorp.com

MUNICIPALITY

TOWN OF PINE VALLEY W6050 GRANTON ROAD NEILLSVILLE, WI 54456 ATTN: BISHOP KOLAMO, CHAIRPERSON PH: (715) 743-2606 EMAIL: pinevalley@tds.net

UTILITY CONTACTS

ELECTRIC CLARK ELECTRIC COOPERATIVE 1209 W. DAL-BERG ST. / P.O. BOX 190 GREENWOOD, WI 54437 ATTN: KENT WEIGEL (715) 267-6188 PH: EMAIL: kweigel@cecoop.com

RUNOFF COEFFICIENT TABLE

					Н	YDROLOGIC	SOIL GROU	JP				
		А		В				С		D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP-TURF	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE TURF			.25			.27			.28			.30
			.32			.34			.36			.38
PAYMENT:												
ASPHALT:						.70 -	.95					
CONCRETE:						.80 -	.95					
BRICK:						.70 -	.80					
DRIVES, WALKS:	.7585											
ROOFS:						.75 -	.95					
GRAVEL ROADS, SHOULDERS:	.4060											

TOTAL PROJECT AREA = 0.22 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.15 ACRES

PROJECT NO:	7854-00-72	HWY: FAIRGROUND AVENUE	COUNTY: CLARK	GENERAL NOTES

I:\CLIENTS-MENO\W\W3900 WDOT NW REGION - EAU CLAIRE\027 7854-00-02 T PINE VALLEY, FAIRGROUND AVE, JACK CREEK BRIDGE\78540002\SHEETSPLAN\020101-GN.DWG FILE NAME : LAYOUT NAME - General Notes

PLOT DATE : 1/27/2022 4:54 PM PLOT BY : BILL BETZIG PLOT NAME :



SHEET



I:\CLIENTS-MENO\W\W3900 WDDT NW REGION - EAU CLAIRE\027 7854-00-02 T PINE VALLEY, FAIRGROUND AVE, JACK CREEK BRIDGE\78540002\SHEETSPLAN\020301-TS.DWG FILE NAME : LAYOUT NAME - TS-1

PLOT DATE : 10/28/2021 3:08 PM PLOT BY : MIKE LAPEAN

PLOT NAME :

EXISTING GROUND

SHEET

EXISTING GROUND

- * 9+33 TO 9+50 LT
- 0.88' 2'
- * 9+33 TO 9+50 RT 1.4' - 2'
- * 9+68.85 TO 9+78.85 LT 2' - 5.17'
- * 9+78.48 TO 9+88.49 RT 2' - 5.01'
- * 10+21.51 TO 10+31.51 LT 2' - 4.97'
- * 10+31.15 TO 10+41.15 2' - 5.17'
- * 10+57.92 TO 10+76 LT 2' - 2.9'
- * 10+57.92 TO 10+76 RT 0.7' - 2'
- ** 10+57.92 TO 10+76 LT
- ** 10+57.92 TO 10+76 RT

WISDOT/CADDS SHEET 42

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I:\CLIENTS-MENO\W\W3900 WDDT NW REGION - EAU CLAIRE\027 7854-00-02 T PINE VALLEY, FAIRGROUND AVE, JACK CREEK BRIDGE\78540002\SHEETSPLAN\022201-EC.DWG PLOT DATE : PLOT BY : FILE NAME : 1/27/2022 5:03 PM LAYOUT NAME - 022001-EC

3

Estimate Of Quantities

					7854-00-72	
Line	Item	Item Description	Unit	Total	Qty	
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-10-0208	EACH	1.000	1.000	
0004	205.0100	Excavation Common	CY	171.000	171.000	
0006	206.1000	Excavation for Structures Bridges (structure) 01. B-10-0400	LS	1.000	1.000	
8000	210.1500	Backfill Structure Type A	TON	324.000	324.000	
0010	213.0100	Finishing Roadway (project) 01. 7854-00-72	EACH	1.000	1.000	
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	55.000	55.000	
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	129.000	129.000	
0016	311.0110	Breaker Run	TON	230.000	230.000	
0018	502.0100	Concrete Masonry Bridges	CY	135.000	135.000	
0020	502.3200	Protective Surface Treatment	SY	180.000	180.000	
0022	505.0400	Bar Steel Reinforcement HS Structures	LB	4,200.000	4,200.000	
0024	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	18,970.000	18,970.000	
0026	506.0105	Structural Steel Carbon	LB	555.000	555.000	
0028	513.4061	Railing Tubular Type M	LF	90.000	90.000	
0030	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000	
0032	550.0020	Pre-Boring Rock or Consolidated Materials	LF	81.000	81.000	
0034	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	245.000	245.000	
0036	606.0300	Riprap Heavy	CY	160.000	160.000	
0038	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	144.000	144.000	
0040	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7854-00-72	EACH	1.000	1.000	
0042	619.1000	Mobilization	EACH	1.000	1.000	
0044	624.0100	Water	MGAL	6.000	6.000	
0046	625.0500	Salvaged Topsoil	SY	173.000	173.000	
0048	628.1504	Silt Fence	LF	136.000	136.000	
0050	628.1520	Silt Fence Maintenance	LF	136.000	136.000	
0052	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0054	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0056	628.2008	Erosion Mat Urban Class I Type B	SY	264.000	264.000	
0058	628.6005	Turbidity Barriers	SY	384.000	384.000	
0060	628.7504	Temporary Ditch Checks	LF	20.000	20.000	
0062	629.0210	Fertilizer Type B	CWT	0.170	0.170	
0064	630.0120	Seeding Mixture No. 20	LB	7.000	7.000	
0066	630.0200	Seeding Temporary	LB	7.000	7.000	
0068	630.0500	Seed Water	MGAL	3.000	3.000	
0070	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0072	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0074	638.2602	Removing Signs Type II	EACH	6.000	6.000	
0076	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0078	642.5001	Field Office Type B	EACH	1.000	1.000	
0080	643.0420	Traffic Control Barricades Type III	DAY	1,188.000	1,188.000	
0082	643.0705	Traffic Control Warning Lights Type A	DAY	1,848.000	1,848.000	
0084	643.0900	Traffic Control Signs	DAY	1,136.000	1,136.000	
0086	643.5000	Traffic Control	EACH	1.000	1.000	
0088	645.0111	Geotextile Type DF Schedule A	SY	62.000	62.000	
0090	645.0120	Geotextile Type HR	SY	305.000	305.000	
0092	650.4500	Construction Staking Subgrade	LF	101.000	101.000	
0094	650.5000	Construction Staking Base	LF	101.000	101.000	
0096	650.6500	Construction Staking Structure Layout (structure) 01. B-10-0400	LS	1.000	1.000	
0098	650.9910	Construction Staking Supplemental Control (project) 01. 7854-00-72	LS	1.000	1.000	

02/01/2022 10:07:56 3 Page 1

				Estimate Of G	Quantities	
					7854-00-72	
Line	Item	Item Description	Unit	Total	Qty	
0100	650.9920	Construction Staking Slope Stakes	LF	101.000	101.000	
0102	715.0502	Incentive Strength Concrete Structures	DOL	810.000	810.000	
0104	999.2005.S	Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000	
0106	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000	
0108	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000	
0110	SPV.0090	Special 01. Flashing Stainless Steel	LF	75.000	75.000	
0112	SPV.0195	Special 01. Select Crushed Material for Travel Corridor	TON	110.000	110.000	

02/01/2022 10:07:56 Page 2 3

DIVISION	FROM/TO STATION	LOCATION	205 COMMON CUT (2)	5.0100 EXCAVATION (1) EBS EXCAVATION (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.25	MASS ORDINATE +/- (14)	WASTE	COMMENT
DIVISION 1	00+33/00+80		76	0	0	76	67	84	Q	0	
DIVISION 1 SUBTOTAL	03+33/03+80	TAINGNOOND AVE 300 THAFFILOACH	76	0	0	76	67	84	-8	0	
DIVISION 2											
	10+30.03/10+76	FAIRGROUND AVE NORTH APPROACH	95	0	0	95	35	44	51	51	
DIVISION 2 SUBTOTAL			95	0	0	95	35	44	51	51	
GRAND TOTAL			171	0	0	171	102	128	43	43	
	Т	OTAL COMMON EXC		171							

NOTES:

(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(13) EXPANDED FILL FACTOR = 1.25X

OR

OR

DEPENDING ON SELECTIONS:

EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH - REDUCED EBS) * FILL FACTOR

EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED EBS) * FILL FACTOR

- EXPANDED FILL = (UNEXPANDED FILL EXPANDED ROCK REDUCED MARSH) * FILL FACTOR
- OR
- EXPANDED FILL = (UNEXPANDED FILL EXPANDED ROCK) * FILL FACTOR

(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION. (15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

BASE AGGREGATES

RESTORATION

					305.0110 BASE AGGREGATE	305.0120 BASE AGGREGATE DENSE 1 1/4-	311.0110	624.0100	CATEGORY	STATION TO ST	TATION OFF	FSET	LOCATION	625.0500 SALVAGED TOPSOIL SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATE MGAL) ER
					DENSE 3/4-INCH	INCH	BREAKER RUN	WATER												
CATEGORY	STATI	ION TO	STATION	LOCATION	TON	TON	TON	MGAL	0010	9+33 - 9	9+78 L	T	FAIRGROUND AVE	32	50	0.03	1	1	1	
									0010	9+33 - 9	9+89 R	RT	FAIRGROUND AVE	55	79	0.05	2	2	1	
0010	9+3	33 -	9+89	FAIRGROUND AVE	28	65	116	3	0010	10+21 - 1	0+76 L	T	FAIRGROUND AVE	43	67	0.04	2	2	1	
0010	10+2	-21 -	10+76	FAIRGROUND AVE	27	64	114	3	0010	10+32 - 1	0+76 R	RΤ	FAIRGROUND AVE	27	44	0.03	1	1	0	
									0010			-	UNDISTRIBUTED	16	24	0.02	1	1	0	
				TOTAL 0010	55	129	230	6	-											
													TOTAL 0010	173	264	0.17	7	7	3	_
PROJECT N	10:	7854-0	0-72		HWY: FAIR	GROUND AVE		COUNTY: CL	ARK		MISCE	ELLA	NEOUS QUANTITIE	S				SHEET		E

PROJECT NO:	7854-00-72	HWY: FAIRGROUND AVE	COUNTY: CLARK	MISCELLANEOUS QUANTITIES	
					BLOT NUM IS

FILE NAME : I:\CLIENTS-MENO\W\W3900 WDOT NW REGION - EAU CLAIRE\027 7854-00-02 T PINE VALLEY, FAIRGROUND AVE, JACK CREEK BRIDGE\78540002\SHEETSPLAN\030201-MQ.DWG PLOT DATE : 10/28/2021 3:11 PM PLOT BY : MIKE LAPEAN PLOT NAME : LAYOUT NAME - 01

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WISDOT/CADDS SHEET 42

						628.1504	EROSION CONTROL	628.1905 MOBILIZATIO	628.1 MOBILIZ NS EMERG	.910 628.6005 ATIONS FNCY	628.7504	CATEGOR	y statioi	N LOCATION SI	GN NUMBER	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMA	RKS	
3	CATEGORY	STATION	TO STATION	I LO	CATION	SILT FENCE LF	SILT FENCE MAINTENANC LF	E CONTROL EACH	EROS CONT EAC	ION TURBIDITY ROL BARRIERS CH SY	TEMPORARY DITCH CHECKS LF	0010 0010 0010	9+70 9+72 9+72	L⊤ R⊤ B⊤	1R 2R 38	1 1 1	1 1	BRIDGE HAS BRIDGE HAS WEIGHT LIM	SH MARKS SH MARKS	
	0010 0010 0010	9+33 10+00	- 10+00 - 10+76	FAIRGI FAIRGI UNDI	ROUND AVE ROUND AVE STRIBUTED	46 63 27	46 63 27	1 1 1	1 1 1	213 171 -	10 10	0010 0010 0010	10+33 10+33 10+33	LT LT RT	4R 5R 6R	1 1 1	1 - 1	BRIDGE HAS WEIGHT LIM BRIDGE HAS	SH MARKS IT 20 TONS SH MARKS	
				ТОТ	AL 0010	136	136	3	3	384	20			TOTAL 0010	STΔk	6 (ING	4			
															<u>5174</u>					
		CATEGORY	STATION I	OCATION	SIGN NUMB] BER SIGN CODE	<u>EYPE II SIGNS</u> 6 PO 4X6 SIZE	34.0612 STS WOOD -INCH X 12- S FT R EACH	637.2230 IGNS TYPE II EFLECTIVE F SF	REMARKS	CATEGORY	STATION T	o station	LOCATION	650.4500 CONSTRUCTIC STAKING SUBGRADE LF	650.5000 DN CONSTRUCTIC STAKING BAS LF	650.65 CONSTRI STAK STRUC LAYC N (STRUC E (01. B-1C	00.01 650 JCTION CONS ING S ^T TURE SUPP DUT CC TURE) (PRC D-0400) 785	9910.01 STRUCTION TAKING LEMENTAL ONTROL DJECT) (01. 64-00-72) LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
		0010 0010 0010	9+79 9+88 10+22	LT RT LT	1 2 3	W5-52L W5-52R W5-52R	12X36 12X36 12X36	1 1 1	3 3 3	BRIDGE HASH MARKS BRIDGE HASH MARKS BRIDGE HASH MARKS	0010 0010 0010	9+33 10+26.33	- 9+83.67 - 10+76 -	FAIRGROUND AVE FAIRGROUND AVE PROJECT	51 50 -	51 50 -	-		- - 1	51 50 -
		0010	10+31	RT	4	W5-52L	12X36	1	3	BRIDGE HASH MARKS	0020			TOTAL 0010	101	101	0		1	101
											0020		-	TOTAL 0020	0	0	1		0	0
						TRA	AFFIC CONTROL							PROJECT TOTAL	101	101	1		1	101
					E	643.0420 TRAFFIC CONTROL BARRICADES	643.0705 TRAFFIC CONTROL WARNING	643.0900 TRAFFIC	643.5000 TRAFFIC						<u>999.200</u>	999.200	5.5.01			
	_	CATEGORY	LO	CATION		TYPE III DAY	LIGHTS TYPE A DAY	CONTROL SIGNS DAY	CONTROL EACH	REMARKS						BIRD DETE SYSTE	ERRENT			
		0010	7-DAY ADVA	NCED WA	RNING	-	-	14	-	(2) G20-57 - CTH E, ROAD WORK, BEGINS XXX-XX				CATEGOR	Y LOCA	(STATION 10+C TION EAC	N)(01. 0) H			
		0010	PI	ROJECT		1,188	1,848	1,122	1	_				0020	P-10-0	0208 1				
			ΤΟΤ	AL 0010		1,188	1,848	1,136	1						TOTAL	0020 1				

PROJECT N	0: 7854-00-72	HWY: FAIRGROUND AVE	COUNTY: CLARK			MISCELLANEOU	S QUANTITIES	
FILE NAME : I:	CLIENTS-MENO\W\W3900 WDOT NW REGION - EAU CLAIRE\027 7854-0	0-02 T PINE VALLEY, FAIRGROUND AVE, JACK CREEK BRIDGE\78540002\SHI	EETSPLAN\030201-MQ.DWG	PLOT DATE :	10/28/2021 3:11 PM	PLOT BY :	MIKE LAPEAN	PLOT NAME :

LAYOUT NAME - 02

REMOVING SIGNS

SHEET

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Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15С02-08в	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15С11-09в	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



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S.D.D. 8 E 9

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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 $1/_8$ " X $1/_8$ " 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.







(WHEN REQUIRED BY THE ENGINEER)





- WATER ELEVATIONS.





SDD 08E -02





ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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

(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE



ALTERNATE LUG

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE FHWA

/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER 3-10 ∢ 2 Δ

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GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

FULL ROAD CLOSURES.

THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL 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 SHALL, 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" (36" X 18" 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 THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

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GENERAL NOTES

- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

★ IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

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CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2021 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER



PROJECT NO:	HWY:	COUNTY:			
			DU OT DUTE V AT NUM ODOO AVA	DI OT DY I IO	DLOT NAME -

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4. 2. If signs are mounted on or behind barrier wall. see A4-10 sian plate. The Double Arrow sign (W12-1D) 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). In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' (+). 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or $6'-3''(\pm)$ depending upon existence 4. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' (+). 5. Offset distance shall be consistent with existing signs or consistent throughout length of project. 6. The (+) tolerance for mounting 7. Folding signs shall be mounted at a height of 5'-3" (\pm) or as directd by the Engineer.

)	
	TYPICAL INSTALLATION
	OF PERMANENT TYPE II
	SIGNS ON SINGLE POSTS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthew & Rauch For state Traffic Engineer
	DATE <u>5/13/202</u> 0 PLATE NO. <u>44-3.22</u>
	SHEET NO: E
PLOT SCALE : \$\$	WISDOT/CADDS SHEET 42





PROJECT NO:	HWY:	COUNTY:		
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN		PLOT DATE : 27-JAN-2014 09	:48 PLOT BY : mscsja	PLOT NAME :

DATE <u>1/27/14</u>

SHEET NO:

PLATE NO. <u>A4-3B.1</u>

Ε



FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

7

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 $7'-3''(\pm)$ or $6'-3''(\pm)$ depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3" (\pm) 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), In Road Object Markers (W5-54) & End of Road Markers (W5-56) 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.

 \times \times See A4-3 sign plate for signs 4' or less in width and less

H	TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS
)	WISCONSIN DEPT OF TRANSPORTATION
/	APPROVED Matther & Rauch
	For State Traffic Engineer
]	DATE 8/21/17 PLATE NO. 44-4.15
	SHEET NO: E
DI AT CA	

PLOT SCALE : 108.188297:1.000000



3 fasteners.

Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely

 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)

MACHINE BOLTS - ³/₈" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

ATTACHMENT OF SIGNS TO POSTS
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
State Traffic Engineer
DATE <u>4/1/202</u> 0 PLATE NO. <u>A4-8.9</u>
SHEET NO: E





FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two $1\frac{1}{2}$ " diameter holes drilled perpendicular to the roadway centerline.

	4	Хe	ô	WOO	DF	POST	
		MOD	IF	FICA	TI	SNC	
	WISCONSIN DEPT OF TRANSPORTATION						
	APPROVE	D		hester .	Γέ	Spang	
			tor	State Tr	affic Er	ngineer	
	DATE 3	/27/9	<u>17</u>	PLA	TE NO	<u>A4-11.2</u>	2
			9	SHEET	N0:		Ε
OT SCALE	T SCALE : 6.207338:1.000000 WISDOT/CADDS SHEET 4						т 42



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W552.DGN

7

PLOT NAME :

NOTES

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

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

Z	Area sq. ft.	STANDARD SIGN
		W5-52L & W5-52R
	3.0	
	3.0	WISCONSIN DEPT OF TRANSPORTATION
	6.75	APPROVED Matthew & Rauch
		for State Traffic Engineer
		DATE 5/29/12 PLATE NO. W5-52.9
		SHEET NO: E
	PLOT	SCALE : 4.961899:1.000000 WISDOT/CADDS SHEET 42

PLOT DATE : 29-MAY-2012 13:03



*****		STATE PROJECT NUMBER			
DESIGN DATA		7854-00-72			
LIVE LOAD: DESIGN LOADING: HL-93 INVENTORY RATING FACTOR: RF = 1.1: OPERATING RATING FACTOR: RF = 1.4: WISCONSIN STANDARD PERMIT VEHIC	1 4 CLE (WISSI	SPV): 250 (KIPS)			
STRUCTURE IS DESIGNED FOR A FUTUI SURFACE OF 20 POUNDS PER SQUARE	RE WEARIN FOOT.	ING			
MATERIAL PROPERTIES: CONCRETE MASONRY: SUPERSTRUCTURE ALL OTHER		f'c = 4,000 P.S.I. f'c = 3.500 P.S.I.			
BAR STEEL REINFORCEMENT: GRADE 60		fy = 60.000 P.S.I.			
FOUNDATION DATA					
REQUIRED DRIVING RESISTANCE OF 18 MODIFIED GATES DYNAMIC FORMULA ESTIMATED LENGTH 20'-0" NORTH ABI 1 ^{+†} THE FACTORED AXIAL RESISTAN 0.5 USING MODIFIED GATES TO 0.5 USING MODIFIED GATES TO SOUTH ABUTMENT TO BE SUPPORTED HOLES CORED 3 FEET MINIMUM INTO FACTORED AXIAL RESISTANCE OF PILES TONS MULTIPLIED BY A RESISTANCE FF ESTIMATED LENGTH 15'-0" SOUTH ABI TRAFFIC VOLUME FEATURE ON	UTMENT CE OF PILE: STANCE MIL DETERMIN O ON HP 10 ROCK. PILE S IN COMPI ACTOR OF JTMENT	THE PER PILE AS DETERMINED BY THE LES IN COMPRESSION USED FOR DESIGN MULTPLIED BY A RESISTANCE FACTOR OF INE DRIVEN PILE CAPACITY. 0.5 x42 PILING SEATED IN PREBORED LE DRIVING IS NOT REQUIRED. THE PRESSION USED FOR DESIGN IS 180 F 0.5. HYDRAULIC DATA 100 YEAR FREQUENCY			
HATURE_ON AADT = 90 (2022) AADT = 99 (2042) R.D.S. = 55 M.P.H.		$100 YEAR FREqUENCY Q_{100} = 3025 C.F.S. Q_{BRDGE} = 2,479 C.F.S. Q_{ROAD} = 546 C.F.S. VEL_{100} = 10.93 F.P.S. HW_{100} = EL. 977.40 WATERWAY AREA = 226.88 SQ. FT. DRAINAGE AREA = 13.4 SQ. MI. ROADWAY OVERTOPPING = 546.02 C.F.S SCOUB CRITICAL CODE = 5$			
RAP AS TION / TOP OF WING		$\frac{2 \text{ YEAR FREQUENCY}}{Q_2 = 742 \text{ C.F.S.}}$			
RIPRAP	VEL. ₂ = 7.62 F.P.S. HW. ₂ = EL. 972.17 ROAD OVERTOPPING FREQUENCY FREQUENCY = 20 YEAR				
ABUTMEN	T WING	HW20 = EL 976.11			
- GEOTEXTILE, TYPE HR (TYP.) L FILL SECTION AT WING	GENERAL PLAN GENERAL PLAN CROSS SECTION & QUANTITIES SUBSURFACE EXPLORATION SOUTH ABUTMENT CONTH ABUTMENT CONTH ABUTMENT DETAILS				
		 NORTH ABUTMENT NORTH ABUTMENT DETAILS SUPERSTRUCTURE SUPERSTRUCTURE DETAILS TUBULAR STEEL RAILING TYPE 'M' 			
ARE BASED UPON STANDARD EVELOPED AND MAINTAINED BY ONSIN DEPARTMENT OF	DATE	REVISION BY			
ON THROUGH THE USE OF THE ARD BRIDGE DESIGN TOOL. THE ED DESIGNER CERTIFIES THE THE BRIDGE TYPE, SIZE AND DRAULICS AND FOUNDATION INFORMATION IN THE PLANS ABT OF THE STANDADD PLANS	w	original PLANS PREPARED BY	_		
E DEPARTMENT. THE DESIGNER ES THAT USE OF THE STANDARD TOOL FOR DEVELOPMENT OF NSISTENT WITH THE GUIDANCE HE WISDOT BRIDGE MANUAL.	EPTED	STATE OF WISCONSIN DEPARTMENT OF TRANSPORATION	5		
SCONS	TRUCT	TURE B-10-0400	,		
	FAI				
E-31102	IGN SPEC. HTO LRFD BR IGNED TLP	BRIDGE DESIGN SPECIFICATION DESIGNED DRAWN PLANS P CK'D DWM BY NJT CK'D TLP			
ONALE	GEN	SHEET 1 OF 10	$\Delta I F = 6$		
M.C. Juwon			25		



■ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 0.9

GENERAL NOTES

STATE PROJECT NUMBER

7854 -00-72

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 SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-10-0400" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

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

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

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO ENTIRE EXPOSED TOP OF SLAB, INCLUDING THE SLAB EDGE AND 1'-0" UNDER THE SLAB, THE TOP AND EXTERIOR EXPOSED FACE OF WINGS AND FRONT FACE OF ABUTMENT TO 1'-0" PAST THE EDGE OF SLAB.

NOMINAL	
	[ססססססס]
1½" MAX. PLAN	SECTION ECTION

RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAING WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

NO. DATE REVISION BY							
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION							
STRUCTURE B-10-0400							
			DRAWN BY	NJT	PLANS CK'D	TLP	
	CR	OSS SECTIO	SHEE	T 2 OF	10		
	&	QUANTITII					





SCALE = 3





7854-00-72





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SCALE =





7854-00-72









CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT. PARAPETS, SIDEWALKS AND MEDIANS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED, EXCEPT FOR STAGED CONSTRUCTION.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

- TOP OF SLAB ELEVATION AT FINAL GRADE SLAB THICKNESS
- LESS
- PLUS CAMBER PLUS CAMBER PLUS FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR) EQUALS TOP OF SLAB FALSEWORK ELEVATION

TOP OF SLAB ELEVATIONS

	C/L BRG. S. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	C/L BRG. N. ABUT.
W. EDGE OF DECK	976.27	976.25	976.24	976.22	976.21	976.19	976.17	976.16	976.14	976.13	976.11
CROWN OR C/L	976.51	976.50	976.48	976.46	976.45	976.43	976.42	976.40	976.38	976.37	976.35
E. EDGE OF DECK	976.23	976.21	976.20	976.18	976.17	976.15	976.13	976.12	976.10	976.09	976.07

8

STATE PROJECT NUMBER

7854-00-72

BILL OF BARS

NOTE: THE FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAN	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION			
S1101	Х	45	42'-3"			SLAB BOTTOM LONGITUDINAL			
S602	Х	43	27'-10"			SLAB BOTTOM TRANSVERSE			
S503	Х	43	27'-10"			SLAB TOP TRANSVERSE			
S504	Х	21	42'-3"			SLAB TOP LONGITUDINAL			
S505	Х	54	7'-5"	Х		ABUTMENT DIAPHRAGM STIRRUPS			
S506	Х	4	27'-10"			ABUTMENT DIAPHRAGM LONGITUDINAL			
S607	Х	48	6'-0"			SLAB TOP LONGIT. UNDER RAIL POSTS			
S608	Х	16	4'-8"	Х		SLAB TOP LONGIT. UNDER RAIL END POSTS			
S609	Х	32	12'-0"	Х		SLAB TOP HOOKS UNDER RAIL POSTS			

SURVEY TOP OF SLAB ELEVATIONS

			1		_						
	ABU	IMENT	5,	/10 PT.		ABUTME	NT				
WEST GUTTER											
CROWN OR C/L											
EAST GUTTER											
PRIOR TO RELEASING SLAB FORMWORK, TAKE TOP OF DECK ELEVATIONS AT THE C/L OF ABUTMENTS, C/L OF PIERS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR C/L. RECORD ELEVATIONS IN THE TABLE ABOVE FOR THE "AS BUILT" PLANS.										8	
	NO.	DATE		REVISION	1			BY			
		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION									
	S	STRUCTURE B-10-0400									
				DRAW BY	VN	PLAN NJT CK'D	IS	٦	ΓLP		
	SUPERSTRUCTURE SHEET 9 OF 10										
			DETAI	LS						SCALE =	



THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 0.9

STATE PROJECT NUMBER

7854-00-72

(1) W6 x 25 WITH 1¹/₈ " X 1¹/₂ " HORIZ. SLOTS ON EACH SIDE OF POST FOR BOLT NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.

(2) PLATE $1\frac{1}{4}$ " x $11\frac{3}{4}$ " x 1'-8" WITH $1\frac{7}{16}$ " OVERSIZED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN.

ASTM A449 - 1 ½" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-9" LONG IN ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG. USE 10 ¾" LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR

(4) $\frac{1}{2}$ x 11" x 1'-8" ANCHOR PLATE (GALVANIZED) WITH $1\frac{3}{16}$ " DIA. HOLES FOR ANCHOR BOLTS NO. 3

(5) TS 5 x 4 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.

(5A) TS 5 x 5 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.

(6) ⁷/₈" DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, ³/₁₆" X 1 ⁵/₈" MIN. WASHER, AND LOCK WASHER (2 REQ'D. AT EACH RAIL TO POST LOCATION.)

(7) SPLICE SLEEVE FABRICATED FROM $\frac{1}{4}$ " PLATE. PROVIDE "SLIDING FIT".

(8) ¾" X 3 ½" X 2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A

(8A) ¾" X 2 ¾" X 2'-4" PLATE USED IN NO. 5, ¾" X 3 ¾" X 2'-4" PLATE USED IN NO. 5A. 2 PER RAIL.

9 ½" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE ¹½6" x 1 ½" LONGIT. SLOTTED HOLES IN PLATE NO. 10A AT FIELD JOINTS AND ¹½6" X 2 ½" MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 8A. PROVIDE ¹⁵/₁₆" DIA. ROUND HOLES IN TUBES NO. 5 AND NO. 5A.

1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M" WHICH INCLUDES ALL ITEMS SHOWN.

2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF

3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN

4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE. RAILS SHALL BE SPLICED IN A PANEL OVER EXPANSION JOINTS.

5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE

6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.

7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS

8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY SSPC SPECIFICATIONS.

NO.	DATE	RE	VISION		BY					
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION									
S	STRUCTURE B-10-0400									
			DRAWN BY	PLANS NJT CK'D	TLP					
	τu	BULAR STE	SHEET 10 C	DF 10						
	RAI	LING TYPE '	M'							

DIVISION	_CL - FAIRGROUND	AVE													
				AREA (SF)	INCREMENTAL VOL (CY) (UNADJUSTED) CUMULATIVE VOL (CY)		PL (CY)	·)							
STATION	REAL STATION	DISTANCE	CUT	SALVAGED/UNUSABLE		CUT	SALVAGED/UNUSABLE	FILL	EDC	СИТ	EXPANDED FILL	EXPANDED EBS BACKFILL	REDUCED EBS IN FILL	MASS ORDINATE	
			CUT	PAVEMENT MATERIAL	FILL EBS		PAVEMENT MATERIAL		EB2	1.00	1.25	1.30 0.80			
						NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 5	NOTE 7	NOTE 8	
09+33	933.00	0.00	50.53	0.00	0.00 0.00	0	0	0	0	0	0	0	0	0	
09+50	950.00	17.00	48.92	0.00	22.15 0.00	31	0	7	0	31	9	0	0	22	
09+64.08	964.08	14.08	47.51	0.00	68.10 0.00	25	0	24	0	56	39	0	0	17	
09+80	979.97	15.88	21.70	0.00	52.84 0.00	20	0	36	0	76	84	0	0	-8	
				CC	DLUMN TOTAL	76	0	67	0	_					

DIVISION -	- LCL - FAIRGROUNE) AVE												
				AREA (SF) INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VO	CUMULATIVE VOL (CY)							
STATION	REAL STATION	DISTANCE		SALVAGED/UNUSABLE		СИТ	SALVAGED/UNUSABLE	FILL	5.0.0	СИТ	EXPANDED FILL	EXPANDED EBS BACKFILL	REDUCED EBS IN FILL	MASS ORDINATE
			CUI	PAVEMENT MATERIAL	FILL EBS		PAVEMENT MATERIAL		FR2	1.00	1.25	1.30	0.80	
						NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 5	NOTE 7	NOTE 8
10+30.03	1030.03	0.00	30.60	0.00	16.04 0.00	0	0	0	0	0	0	0	0	0
10+41.15	1041.15	11.12	59.48	0.00	39.47 0.00	19	0	11	0	19	14	0	0	5
10+50	1050.00	8.85	62.00	0.00	26.98 0.00	20	0	11	0	39	28	0	0	12
10+76	1076.00	26.00	54.81	0.00	0.00 0.00	56	0	13	0	95	44	0	0	51
				C	OLUMN TOTAL	95	0	35	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
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
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 COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

PROJECT N	NO: 7854-00-72	HWY: FAIRGROUND AVE	COUNTY: CLARK		EARTHWORK Q	JANTITIES	
FILE NAME :	I:\CLIENTS-MENO\W\W3900 WDOT NW REGION - EAU CLAIRE\027 7854-00 LAYOUT NAME - 01	D-02 T PINE VALLEY, FAIRGROUND AVE, JACK CREEK BRIDGE\78540002\SH	EETSPLAN\090101-EW.DWG PLOT DATE :	10/28/2021 2:08 PM	PLOT BY :	MIKE LAPEAN	PLOT NAME :



PLOT SCALE : 1" = 1'

SHEET

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