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ection No.	9	Cross Sections

TOTAL SHEETS =

NOVEMBER 2023

46

DESIGN DESIGNATION

A.A.D.T.	(2024)	=	220
A.A.D.T.	(2044)	=	250
D.H.V.		=	36
D.D.		=	62/38
Т.		=	14.3%
DESIGN SPEED		=	60 MP
ESALS		=	51,100



VERNON

COUNTY:

<u>PLAN</u> CORPORATE LIMITS	<u>///////</u>
PROPERTY LINE	
LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE	L
SLOPE INTERCEPT REFERENCE LINE	300'EB'
EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	-caution-
MARSH AREA	

GAS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STH 131 -CTH V

WARNER CREEK BRIDGE, B-62-0268

CTH P **VERNON COUNTY**



FILE NAME : G:\07\07339\07339036\CADD\SHEETSPLAN\010101-TI.DWG

WOODED OR SHRUB AREA



GENERAL NOTES

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

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER. THE 4" ASPHALTIC SURFACE SHALL BE CONSTRUCTED USING A 2.25" LOWER LAYER OF 19 MM NOMINAL SIZE AGGREGATE AND A 1.75" UPPER LAYER WITH 12.5 MM NOMINAL SIZE AGGREGATE.

THE CONTRACTOR IS RESPONSIBLE FOR THE RESHAPING AND FINISHING OF ALL PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY THEIR OPERATIONS OUTSIDE THE PLAN CONSTRUCTION LIMITS.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY THESE LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THEY ARE NO LONGER NECESSARY.

WETLANDS ARE PRESENT. AREAS OUTSIDE THE SLOPE INTERCEPTS SHALL NOT BE DISTURBED IN WETLAND AREAS.

DESIGN CONTACTS

MSA PROFESSIONAL SERVICES, INC. ATTN: JOSH SWENO, P.E. 1702 PANKRATZ STREET MADISON, WI 53704 PHONE: (608) 355-8852 EMAIL: JSWENO@MSA-PS.COM

VERNON COUNTY HIGHWAY DEPARTMENT ATTN: PHIL HEWITT, HIGHWAY COMMISSIONER 1335 RAILROAD AVENUE VIROQUA, WI 54665 PHONE: (608) 637-5452 EMAIL: PHIL.HEWITT@VERNONCOUNTY.ORG

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES ATTN: KAREN KALVELAGE 3550 MORMAN COULEE ROAD LA CROSSE, WI 54601 PHONE: (608) 785-9115 EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

> *DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS



TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.14 ACRES HWY: CTH P COUNTY: VERNON **GENERAL NOTES, ABBREVIATIONS, & UTILITIES**

RUNOFF COEFFICIENT TABLE

						HYDROLOGIC S	SOIL GROL	JP				
		Α			B			C	:		D	
	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE RANGE (PERCENT)		(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-	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
TURF	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE-			.25			.27			.28			.30
TURF			.32			.34			.36			.38
PAVEMENT:												
ASPHALT						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS	DRIVES, WALKS .7585											
ROOFS	R00FS .7595											
GRAVEL ROADS,	SHOULDE	ERS				.4060						

TOTAL PROJECT AREA = 0.22 ACRES

PROJECT NO: 5478-00-77

G:\07\07339\07339036\CADD\SHEETSPLAN\020101-GN.DWG FILE NAME : LAYOUT NAME - 020101-gn

PLOT DATE : 7/12/2023 9:12 AM

PLOT BY : CONNOR GIRTEN

PLOT NAME :

2

UTILITY CONTACTS

BURIED FIBER OPTIC: HILLSBORO TELEPHONE COMPANY ATTN: CHAD SCHMIDT 121 MILL STREET HILLSBORO, WI 54634 PHONE: (608) 489-4415 EMAIL: CSCHMIDT@HILLSBOROTEL.COM



SHEET

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PLOT DATE : 7/19/2023 10:09 AM PLOT BY : CONNOR GIRTEN



THE ASPHALTIC SURFACE SHALL TAPER FROM 26.0 FEET AT THE ENDS OF THE CONCRETE APPROACH PAVEMENT TO 22. 0 FEET AT ± 31.0 FEET FROM THE CONCRETE

PLOT NAME :

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PROJECT	DJECT NO: 5478-00-77		HWY: CTH P	COUNTY:	NTY: VERNON			CONSTRUCTION DETAILS		
FILE NAME :	G:\07\073	339\07339036\CADD\SHEETSPLAN\021001-CD.DWG				PLOT DATE :	7/12/2023 9:13 AM	PLOT BY :	CONNOR GIRTEN	PLOT NAME :



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Estimate Of Quantities

					5478-00-77	
Line	Item	Item Description	Unit	Total	Qty	
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-62-954	EACH	1.000	1.000	
0004	205.0100	Excavation Common	CY	132.000	132.000	
0006	206.1001	Excavation for Structures Bridges (structure) 01. B-62-268	EACH	1.000	1.000	
8000	208.0100	Borrow	CY	11.000	11.000	
0010	210.1500	Backfill Structure Type A	TON	400.000	400.000	
0012	213.0100	Finishing Roadway (project) 01. 5478-00-77	EACH	1.000	1.000	
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	17.000	17.000	
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	225.000	225.000	
0018	311.0110	Breaker Run	TON	84.000	84.000	
0020	415.0410	Concrete Pavement Approach Slab	SY	94.000	94.000	
0022	455.0605	Tack Coat	GAL	13.000	13.000	
0024	465.0105	Asphaltic Surface	TON	41.000	41.000	
0026	502.0100	Concrete Masonry Bridges	CY	168.000	168.000	
0028	502.3200	Protective Surface Treatment	SY	170.000	170.000	
0030	502.3210	Pigmented Surface Sealer	SY	44.000	44.000	
0032	505.0400	Bar Steel Reinforcement HS Structures	LB	4,980.000	4,980.000	
0034	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	21,070.000	21,070.000	
0036	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000	
0038	550.2106	Piling CIP Concrete 10 3/4 X 0.365-Inch	LF	254.000	254.000	
0040	602.3010	Concrete Surface Drains	CY	4.000	4.000	
0042	606.0300	Riprap Heavy	CY	125.000	125.000	
0044	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	190.000	190.000	
0046	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5478-00-77	EACH	1.000	1.000	
0048	619.1000	Mobilization	EACH	1.000	1.000	
0050	624.0100	Water	MGAL	6.000	6.000	
0052	625.0500	Salvaged Topsoil	SY	103.000	103.000	
0054	627.0200	Mulching	SY	213.000	213.000	
0056	628.1504	Silt Fence	LF	296.000	296.000	
0058	628.1520	Silt Fence Maintenance	LF	296.000	296.000	
0060	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0062	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0064	628.6005	Turbidity Barriers	SY	219.000	219.000	
0066	629.0210	Fertilizer Type B	CWT	0.500	0.500	
0068	630.0171	Seeding Mixture No. 70A	LB	5.000	5.000	
0070	630.0400	Seeding Nurse Crop	LB	5.000	5.000	
0072	630.0500	Seed Water	MGAL	11.000	11.000	
0074	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0076	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0078	642.5001	Field Office Type B	EACH	1.000	1.000	
0800	643.0420	Traffic Control Barricades Type III	DAY	1,458.000	1,458.000	
0082	643.0705	Traffic Control Warning Lights Type A	DAY	2,268.000	2,268.000	
0084	643.0900	Traffic Control Signs	DAY	1,134.000	1,134.000	
0086	643.5000	Traffic Control	EACH	1.000	1.000	
0088	645.0111	Geotextile Type DF Schedule A	SY	110.000	110.000	
0090	645.0120	Geotextile Type HR	SY	230.000	230.000	
0092	646.1020	Marking Line Epoxy 4-Inch	LF	472.000	472.000	
0094	650.4500	Construction Staking Subgrade	LF	103.000	103.000	
0096	650.5000	Construction Staking Base	LF	63.000	63.000	
0098	650.6501	Construction Staking Structure Layout (structure) 01. B-62-268	EACH	1.000	1.000	
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		Estimate Of Quantities									
					5478-00-77						
Line	ltem	Item Description	Unit	Total	Qty						
0100	650.9911	Construction Staking Supplemental Control (project) 01. 5478-00-77	EACH	1.000	1.000						
0102	650.9920	Construction Staking Slope Stakes	LF	103.000	103.000						
0104	690.0150	Sawing Asphalt	LF	45.000	45.000						
0106	715.0502	Incentive Strength Concrete Structures	DOL	1,008.000	1,008.000						
0108	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000						
0110	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000						
0112	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000						
0114	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	175.000	175.000						
0116	SPV.0035	Special 01. Excavation, Hauling, and Disposal of Creosote Contaminated Soil	CY	54.000	54.000						
0118	SPV.0060	Special 01. Salvage and Reinstall Signs	EACH	1.000	1.000						
0120	SPV.0180	Special 01. Concrete Pavement 8-Inch Special	SY	22.000	22.000						

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Page 2

EXCAVATION COMMON & BORROW

					205.0100 FXCAVATION				208.0100
CATEGORY	STATION	то	STATION	LOCATION	COMMON	FILL CY(1)	EXPANDED FILL CY (2)	WASTE CY	BORROW CY
0010	9+20	_	9+71.56	MAINLINE	76	7	9	67	-67
0010	10+14.44	-	10+65	MAINLINE	56	68	88	-32	32
0010		-		UNUSABLE PAVEMENT					46
				TOTAL 0010	132				11

(1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY.

(2) - FILL EXPANSION 30%

(3) - EXISTING PAVEMENT IS INCLUDED IN EXCAVATION COMON TOTALS. SEE EARTHWORK TABLE.

		<u>A</u>	<u>SPHALT ITEMS</u>					<u>.</u>	oner	LETE JOINT AC	<u>L DIANS</u>	
				455.0605	465.0105							602.3010
				TACK COAT	ASPHALTIC SURFACE							CONCRETE
CATEGORY	STATION TO	STATION	LOCATION	GAL	TON	-	CATEGORY	STATION	ТО	STATION	LOCATION	SURFACE DRAINS CY
0010 0010	9+20 - 10+34.45 -	9+51.55 10+65	MAINLINE	7 6	22 19		0010	9+48 9+71 55	-	9+66.55 9+80.07	RT	2
			TOTAL 0010	13	41		0010	5171.55		5.00.07	TOTAL 0010	4

CONCRETE PAVEMENT ITEMS

					415.0410	SPV.0180.01
					CONCRETE	CONCRETE
					PAVEMENT	PAVEMENT 8-
					APPROACH SLAB	INCH SPECIAL)
CATEGORY	STATION	то	STATION	LOCATION	SY	SY
-						
0010	9+51.55	-	9+72.33	LT & RT	47	
0010	9+51.55	-	9+71.55	LT		7
0010	10+05.93	-	10+34.45	RT		10
0010	10+13.67	-	10+34.45	LT & RT	47	
0010	10+19.45	-	10+34.45	LT		5
				TOTAL 0010	94	22

RESTORATION ITEMS

					625.0500	627.0200	629.0210	630.0171 SEEDING
					SALVAGED		FERTILIZER TYPE	MIXTURE NO.
					TOPSOIL	MULCHING	В	70A
CATEGORY	STATION	TO	STATION	LOCATION	SY	SY	CWT	LB
0010	9+20	-	9+63	RT	6	22	0.1	1
0010	9+20	-	9+81	LT	17	45	0.1	1
0010	10+05	-	10+65	RT	50	75	0.1	1
0010	10+32	-	10+65	LT	9	28	0.1	1
0010	UNDI	STRI	BUTED		21	43	0.1	1
				TOTAL 0010	103	213	0.5	5

PROJECT NO: 5478-00-77	HWY: CTH P	COUNTY: VERNON	MISCELLANEOUS QUANTITIES		
FILE NAME : N:\PDS\\030200_mq.pptx		PLOT DATE: August 3, 2023	PLOT BY : MSA	PLOT NAME :	

3

BASE AGGREGATE ITEMS

305.0110	305.0120 BASE	624.0100
BASE	AGGREGATE	
AGGREGATE	DENSE 1 1/4-	
DENSE 3/4-INCH	INCH	WATER
TON	TON	MGAL
9	113	3
8	112	3
17	225	6

CONCRETE SURFACE DRAINS

630.0400	630.0500
SEEDING NURSE CROP	SEED WATER
LB	MGAL
1	1
1	3
1	3
1	2
1	2
5	11

3

SHEET:

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EROSION CONTROL ITEMS

					628.1504	628.1520	628.1905	628.1910 MOBILIZATIONS	628.6005
							MOBILIZATIONS	EMERGENCY	
						SILT FENCE	EROSION	EROSION	TURBIDITY
					SILT FENCE	MAINTENANCE	CONTROL	CONTROL	BARRIERS
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	EACH	EACH	SY
0010	9+20	-	9+96	LT & RT	125	125			88
0010	9+86	-	10+65	LT & RT	112	112			87
0010	UNDISTRIBUTED			59	59	3	2	44	
				TOTAL 0010	296	296	3	2	219

REMOVING SIGN ITEMS

		638.2602	638.3000	
			REMOVING	
		REMOVING	SMALL SIGN	
		SIGNS TYPE II	SUPPORTS	
STATION	LOCATION	EACH	EACH	REMARKS
9+55	RT	1	1	REMOVED BY COUNTY
9+72	RT	1	1	REMOVED BY COUNTY
9+90	LT	1	1	REMOVED BY COUNTY
10+09	RT	1	1	REMOVED BY COUNTY
10+26	LT	1	1	REMOVED BY COUNTY
10+37	LT	1	1	REMOVED BY COUNTY
				_
		6	6	•

EXCAVATION, HAULING, AND DISPOSAL OF CREOSOTE CONTAMINATED SOIL

CD\/	002E	01
. 3P V.	.いいろう	.01

		EXCAVATION, HAULING, AND DISPOSAL OF CREOSOTE CONTAMINATED SOIL
CATEGORY	STATION	CY
0010	9+82.9	27
0010	10+17.2	27
	TOTAL	54

											650.4500	650.5000	650.6501.01	650.9911.01	650.9920	
													CONSTRUCTION	CONSTRUCTION		
													STAKING	STAKING		
													STRUCTURE	SUPPLEMENTAL		
		PA	VEMENT MARKI	NGS							CONSTRUCTION		LAYOUT	CONTROL	CONSTRUCT	
											STAKING	CONSTRUCTION	(STRUCTURE)	(PROJECT) (01.	STAKING SLO	
											SUBGRADE	STAKING BASE	(01. B-62-268)	5478-00-77)	STAKES	
				646.1020		CATEGORY	STATION	ТО	STATION	LOCATION	LF	LF	EACH	EACH	LF	
				MARKING LINE												
				EPOXY 4-INCH		0010	9+20	-	9+72	MAINLINE	52				52	
STATION	TO	STATION	LOCATION	LF	REMARKS	0010	10+14	-	10+65	MAINLINE	51				51	
						0010	9+20	-	9+52	MAINLINE		32				
9+20	-	10+65	CL	182	YELLOW, SOLID & SKIPS	0010	10+34	-	10+65	MAINLINE		31				
9+20	-	10+65	LT & RT	290	WHITE, SOLID	0010				PROJECT			1	1		
	<u>STATION</u> 9+20 9+20	<u>STATION TO</u> 9+20 - 9+20 -	<u>P/</u> <u>STATION TO STATION</u> 9+20 - 10+65 9+20 - 10+65	<u>PAVEMENT MARKI</u> STATION TO STATION LOCATION 9+20 - 10+65 CL 9+20 - 10+65 LT & RT	PAVEMENT MARKINGS 646.1020 MARKING LINE EPOXY 4-INCH STATION TO STATION TO 9+20 - 9+20 - 9+20 - 10+65 CL 110+65 LT & RT 290	PAVEMENT MARKINGS 646.1020 MARKING LINE EPOXY 4-INCH STATION TO STATION TO STATION LOCATION LF REMARKS 9+20 - 10+65 CL 182 YELLOW, SOLID & SKIPS 9+20 - 10+65 LT & RT 290 WHITE, SOLID	PAVEMENT MARKINGS 646.1020 MARKING LINE POXY 4-INCH 0010 STATION LOCATION LF REMARKS 0010 STATION TO STATION LOCATION LF REMARKS 0010 0010 9+20 - 10+65 CL 182 YELLOW, SOLID & SKIPS 0010 9+20 - 10+65 LT & RT 290 WHITE, SOLID 0010	PAVEMENT MARKINGS 646.1020 MARKING LINE EPOXY 4-INCH 0010 9+20 STATION LOCATION LF REMARKS 9+20 - 10+65 CL 182 YELLOW, SOLID & SKIPS 0010 10+34 9+20 - 10+65 LT & RT 290 WHITE, SOLID 0010	PAVEMENT MARKINGS 646.1020 MARKING LINE EPOXY 4-INCH 0010 9+20 0 STATION LOCATION LF REMARKS 9+20 - 10+65 CL 182 YELLOW, SOLID & SKIPS 0010 10+14 - 9+20 - 10+65 LT & RT 290 WHITE, SOLID 0010 10+34 -	PAVEMENT MARKINGS STATION TO STATION TO STATION TO STATION STATION TO STATION LOCATION LF CATEGORY STATION TO STATION STATION TO STATION LOCATION LF REMARKS OD10 9+20 9+20 9+20 C 10+65 OD10 09+20 9+72 OD10 09+20 9+72 OD10 010+65 010+65 010 9+72 0100 0101 010+65 010+65 010+65 01010 9+52 010+65 010+65 010+65 010+65 010+65 010+65 010+65 010+65 010+65 010+65 010+65 010+65 010+65 010+65 010+65 010+65 010+65 <th colspa="</td"><td>PAVEMENT MARKINGS CATEGORY STATION TO STATION</td><td>650.4500 EPAVEMENT MARKINGS CONSTRUCTION STAKING SUBGRADE SUBGRADE SUBGRADE SUBGRADE SUBGRADE SUBGRADE STATION TO STATION LOCATION STATION STATION LOCATION STATION STATION LOCATION STATION STATION 10 STATION 10</td><td>PAVEMENT MARKINGS CONSTRUCTION STAKING STAKING LINE 646.1020 MARKING LINE 646.1020 CATEGORY STATION TO STATION LOCATION LF LF STATION TO STATION LOCATION LF LF 9+20 - 10+65 CL 182 YELLOW, SOLID & SKIPS 0010 10+14 - 10+65 MAINLINE 51 9+20 - 10+65 CL 182 YELLOW, SOLID & SKIPS 0010 10+34 - 10+65 MAINLINE 31 9+20 - 10+65 LT & RT 290 WHITE, SOLID 0010 </td><td>FATION 10 STATION LOCATION L REMARKS 0010 10+43 - 9+20 - 10+65 CL 182 YELLOW, SOLID & SKIPS 0010 10+34 - 10+65 MAINLINE - - - - 10+65 CL 182 YELLOW, SOLID & SKIPS 0010 10+34 - 10+65 MAINLINE - - - 1</td><td>FAVEMENT MARKINGS FEMALE FAVEMENT MARKINGS 650.501 650.501.01 650.991.01 FAVEMENT MARKINGS FAVEMENT MARKINGS FAVEMENT MARKINGS STAKING STAKING STAKING FAVEMENT MARKINGS FAVEMENT MARKINGS</td></th>	<td>PAVEMENT MARKINGS CATEGORY STATION TO STATION</td> <td>650.4500 EPAVEMENT MARKINGS CONSTRUCTION STAKING SUBGRADE SUBGRADE SUBGRADE SUBGRADE SUBGRADE SUBGRADE STATION TO STATION LOCATION STATION STATION LOCATION STATION STATION LOCATION STATION STATION 10 STATION 10</td> <td>PAVEMENT MARKINGS CONSTRUCTION STAKING STAKING LINE 646.1020 MARKING LINE 646.1020 CATEGORY STATION TO STATION LOCATION LF LF STATION TO STATION LOCATION LF LF 9+20 - 10+65 CL 182 YELLOW, SOLID & SKIPS 0010 10+14 - 10+65 MAINLINE 51 9+20 - 10+65 CL 182 YELLOW, SOLID & SKIPS 0010 10+34 - 10+65 MAINLINE 31 9+20 - 10+65 LT & RT 290 WHITE, SOLID 0010 </td> <td>FATION 10 STATION LOCATION L REMARKS 0010 10+43 - 9+20 - 10+65 CL 182 YELLOW, SOLID & SKIPS 0010 10+34 - 10+65 MAINLINE - - - - 10+65 CL 182 YELLOW, SOLID & SKIPS 0010 10+34 - 10+65 MAINLINE - - - 1</td> <td>FAVEMENT MARKINGS FEMALE FAVEMENT MARKINGS 650.501 650.501.01 650.991.01 FAVEMENT MARKINGS FAVEMENT MARKINGS FAVEMENT MARKINGS STAKING STAKING STAKING FAVEMENT MARKINGS FAVEMENT MARKINGS</td>	PAVEMENT MARKINGS CATEGORY STATION TO STATION	650.4500 EPAVEMENT MARKINGS CONSTRUCTION STAKING SUBGRADE SUBGRADE SUBGRADE SUBGRADE SUBGRADE SUBGRADE STATION TO STATION LOCATION STATION STATION LOCATION STATION STATION LOCATION STATION STATION 10 STATION 10	PAVEMENT MARKINGS CONSTRUCTION STAKING STAKING LINE 646.1020 MARKING LINE 646.1020 CATEGORY STATION TO STATION LOCATION LF LF STATION TO STATION LOCATION LF LF 9+20 - 10+65 CL 182 YELLOW, SOLID & SKIPS 0010 10+14 - 10+65 MAINLINE 51 9+20 - 10+65 CL 182 YELLOW, SOLID & SKIPS 0010 10+34 - 10+65 MAINLINE 31 9+20 - 10+65 LT & RT 290 WHITE, SOLID 0010	FATION 10 STATION LOCATION L REMARKS 0010 10+43 - 9+20 - 10+65 CL 182 YELLOW, SOLID & SKIPS 0010 10+34 - 10+65 MAINLINE - - - - 10+65 CL 182 YELLOW, SOLID & SKIPS 0010 10+34 - 10+65 MAINLINE - - - 1	FAVEMENT MARKINGS FEMALE FAVEMENT MARKINGS 650.501 650.501.01 650.991.01 FAVEMENT MARKINGS FAVEMENT MARKINGS FAVEMENT MARKINGS STAKING STAKING STAKING FAVEMENT MARKINGS

PROJECT NO: 5478-00-77	HWY: CTH P	COUNTY: VERNON MISCELLANEOUS QUANTITIES		
FILE NAME : N:\PDS\\030200 mq.pptx		PLOT DATE : July 12, 2023	PLOT BY : MSA	PLOT NAME :

<u>SIGN ITEMS</u>

			634.0612	637.2230	SPV.0060.01 SPECIAL (01.	
			POSTS WOOD		SALVAGE AND	
			4X6-INCH X 12-	SIGNS TYPE II	REINSTALL	
			FT	REFLECTIVE F	SIGNS)	
CATEGORY	STATION	LOCATION	EACH	SF	EACH	REMARKS
0010	9+63	RT	1	3		W5-52R
0010	9+65	LT			1	PROTECT WI STREAMS & RIVERS
0010	9+80	LT	1	3		W5-52L
0010	10+06	RT	1	3		W5-52R
0010	10+22	LT	1	3		W5-52L
		TOTAL 0010	4	12	1	

TRAFFIC CONTROL ITEMS

			TRAFFIC CONTROL BARRICADES	643.0420 TRAFFIC CONTROL BARRICADES	TRAFFIC CONTROL WARNING	643.0705 TRAFFIC CONTROL WARNING	TRAFFIC	643.0900 TRAFFIC	643.5000 TRAFFIC
			TYPEIII	TYPE III	LIGHTS TYPE A	LIGHTS TYPE A	CONTROL SIGNS	CONTROL SIGNS	CONTROL
CATEGORY	LOCATION	DAYS	EACH	DAY	EACH	DAY	EACH	DAY	EACH
0010	JUNCTION WITH EASTMAN DR	81	2	162	4	324	5	405	-
0010	PROJECT BEGINNING	81	7	567	10	810	2	162	-
0010	PROJECT ENDING	81	7	567	10	810	2	162	-
0010	FISH HOLLOW RD	81	2	162	4	324	5	405	-
0010	5478-00-77		-	-	-	-	-	-	1
		TOTAL 0010		1,458		2,268		1,134	1

CONSTRUCTION STAKING ITEMS

650.9920

CONSTRUCTION

				SHEET:		E
103						
				TOTAL 0010	45	
		0010	10.05	CIIII	22	
		0010	10+65	СТН Р	23	
51		0010	9+20	CTH P	23	
52	-	CATEGORY	STATION	LUCATION	LF	
		CATECODY	INDITATO		ASPITALI	
STAKES L F					SAWING	
AKING SLOPE					690.0150	
NETRUCTION						

SAWING ASPHALT

3

PLOT SCALE : 1:1



	WI ROS	lliam & E Mallek				N			
<	-×	××				EXISTING R/	<u>/w</u>		
		12+00 CP-5					-0		
_×		Ä		(VERI ELM AVENUE		BURIED EL CTRIC COOPER	ECTRIC RATIVE)		
ĺ	NO.	STATION/OF	CC FSET DE	ONTROL POIN SCRIPTION		Y	;	ĸ	5
	6 2 3 5	8+00.45, 0.1 ⁻ 9+28.41, 26.4 ⁻ 10+62.35, 16.6 11+98.92, 0.2	LI PK I 'RT 3/4 5'LT 3/4 'LT PK I	NAIL " IRON ROD W/ C/ " IRON ROD W/ C/ NAIL	4P 4P	181,062.17 181,053.49 181,115.12 181,118.80	806,334.04 806,460.51 806,597.95		
								978	
								976	
								974	
								970	
				E/	ARTHWO	RK SUMMARY		968	
				S E) Fl B	C. COMI LL LL EXPAN ORROW	MON 132 CY 75 CY ISION 30% 11 CY	/	966	
077 61	H	978.02	978.44	978.87		979.40		964	
		12+00		12+: S	50 HEET		13+00) E	
		PLOT SCALE :	1 IN:40	FT					

Standard Detail Drawing List

08D02-08A 08D02-08B 08D02-08C	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
13A03-07	CONCRETE PAVEMENT SHOULDERS
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C18-08A	CONCRETE PAVEMENT JOINTING
13C19-03	HMA LONGI I UDI NAL JOI NIS
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15006-12	SIGNING & MARKING FOR IWO LANE BRIDGES
15C08-22A	LONGITUDINAL MARKING (MAINLINE)



SDD 08D02 - 08a





SDD 08D02 - 08c

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GENERAL NOTES

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

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

- (1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
- (2) NO. 4 X 2' 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
- (3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.
- (4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.
- (5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.
- (6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.
- 7 PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
- (8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.
- (9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.
- (1) SEE ROADWAY PLANS FOR FLUME LOCATION.
- (1) START CURB AND GUTTER TRANSITION OR END SECTION.
- (12) DEPRESS FLOW LINE (SEE DETAIL)
- (13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
- (14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.
- (15) GEOTEXTILE TYPE HR.
- (16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.
- (7) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.
- (18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.
- (19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.
- (20) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.
- (21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER 6

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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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FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.







CONCRETE PAVEMENT SHOULDER

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
<10 ½"	NO. 4	30"	36"
>10 1/"	NO. 5	36"	36"
>10 %	NO. 4 🛠	30"	_{24"} **

* SUBSTITUTE BENT BATS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES.

** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER ***	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12"
7", 7 ½"	1"	14"
8" & ABOVE	1 1⁄4"	15"

*** FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FRO THE AVERAGE THICKNESS OF THE CROSS SECTION.

GENERAL NOTES

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

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.

SECTION A - A LONGITUDINAL CONSTRUCTION JOINT

CONCRETE PAVEMENT SHOULDERS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Peter Kemp PAVEMENT SUPERVISOR 6

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SDD 13B02 60

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PAVEMENT SUPERVISOR

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GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES

- (1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.
- (2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

DATE

/S/ Peter Kemp, P.E. PAVEMENT SUPERVISOR

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AVOID

AND AC

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

1 PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.

(2) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.

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GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



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CONCRETE PAVEMENT JOINTING

SKEWED INTERSECTION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION





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SDD

15C06-12

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

STED OR 85TH CENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

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SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER



SDD 15C08 22a



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

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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

WISDOT/CADDS SHEET 42



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
For 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	Х	ô	WOO	DF	POST	
		MOD	IF	FICA	TI	SNC	
	WISC	onsin l	DEF	PT OF T	RANSI	PORTATION	'
	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	E:6.20 7 33	8:1.0000	000	WISD	от/с	ADDS SHEE	т 42



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

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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

5478-00-77

DESIGN DATA	\	-	0470-0	• • •		L
LIVE LOAD:	<u>-</u> —		<u>traf</u>	FIC DATA:		1
DESIGN LOADING :	HL-93	R • 105	A. ^	A.D.T. (2024)	= 220 = 250	
OPERATIONAL RAT	G FACIO FING FAC	TOR: 1.05	R.	D.S. = 60 MF	- 230 М	
WISCONSIN STAND	ARD PER	MIT VEHICLE	(WIS-SPV)	= 250 KIPS.		
STRUCTURE IS DE SURFACE OF 20 F	SIGNED F POUNDS I	FOR A FUTUR PER SQUARE	E WEARIN FOOT.	G		
MATERIAL PROPERTI	IES:					L
CONCRETE MASON ALL	IRY, SLAB L OTHER	AND PARAP	ETS —	f'c= 4,000 f'c= 3,500	P.S.I. P.S.I.	
HIGH-STRENGTH B REINFORCEMENT,	GRADE 6	L 50 ———		f y = 60,000	P.S.I.	
PILING CIP CONCR	RETE 10⅔	x 0.365-IN	исн ——	f y = 45,000	P.S.I.	
FOUNDATION DATA:						L
ABUTMENTS TO E	BE SUPPC	ORTED ON PIL	ING CIP C	ONCRETE	ANCE	L
OF 140 TONS X GATES DYNAMIC F	PER PILI	E AS DETERN ESTIMATED	MINED BY PILE LEN	THE MODIFIE	D 9'-0''	l
AT THE ABUTMEN	NT BODIES	S AND 16'-0"	AT THE	ABUTMENT W	INGS.	L
+ THE FACTORED A	XIAL RES	SISTANCE OF	PILES IN		N	L
MULTIPLIED BY A	RESISTA	NCE FACTOR	OF 0.5 L	JSING MODIFI	ED	
GATES TO DETER	(MINE DRI	VEN PILE CA	PACITY.			
100 YEAR FRF0	UENCY					
DRAINAGE AF	REA —			3.9 SC	. MI.	L
0 ₁₀₀ -total -thru	BRIDGE			—— 1,270 —— 798 с	C.F.S. .F.S.	
-OVERT	OPPING F	ROADWAY		472 C.	F.S.	
VELOCITY	ARFA			5.93 F 135 SC	T./SEC.	
SCOUR CRITI	CAL COD	E		5		
HIGH WATER	IOO ELEV	ATION ———		971.75	FC	L
°2				150 C.	· .J.	_
Q2 VELOCITY	Y			—— 2.26 F	I./ SEC.	L
Q2 VELOCITY Q2 ELEVATIO	Y ON			2.26 F 969.95	1./ SEC.	
Q2 VELOCITY Q2 ELEVATIO	Y ON FLOW _DES	SIGN FREQUEN	<u>NC Y</u>	2.26 F 969.95	T./ SEC.	
Q2 VELOCITY Q2 ELEVATIO ROADWAY OVERF OVERTOPPINO	Y ON F <u>LOW DES</u> G FREQUE	SIGN FREQUEN	<u>1C Y</u>	2.26 F 969.95 2 YEA	RS	
02 VELOCIT 02 ELEVATIO <u>ROADWAY OVERF</u> OVERTOPPING 02	Y	SIGN FREQUEN	NCY	2.26 F 969.95 	RS F.S.	
O_2 VELOCITY O_2 ELEVATIO <u>ROADWAY OVERF</u> OVERTOPPINO O_2 HW 2	Y	SIGN FREQUEN		2.26 F 969.95 2 YEA 190 C. 969.95	RS F.S.	
O_2 VELOCIT O_2 ELEVATIO ROADWAY OVERF OVERTOPPINO O_2 HW $_2$	Y	SIGN FREQUEN NCY TOFDF		2.26 F 969.95 2 YEA 190 C. 969.95	RS F.S.	
O ₂ VELOCIT O ₂ ELEVATIO <u>ROADWAY OVERF</u> OVERTOPPINO O ₂	Y ON G FREQUE LIS 1. GEI 2. CR 3. SL	SIGN FREQUEN NCY TOFDF NERAL PLAN ROSS SECTION INSURFACE F	RAWING	2.26 F 969.95 2 YEAI 190 C. 969.95 25 25	RS F.S.	
02 VELOCITY 02 ELEVATIO <u>ROADWAY OVERF</u> OVERTOPPINO 02	Y ON G FREQUE LIS 1. GEI 2. CR 3. SL 4. WE	SIGN FREQUEN ENCY TOFDE NERAL PLAN ROSS SECTION JBSURFACE E EST ABUTMEN	<u>RAWING</u> , quantit xploratic	2.26 F 969.95 2 YEAI 190 C. 969.95 25 25 IES & NOTE	RS F.S.	
O2 VELOCITY O2 ELEVATIO OVERTOPPINO O2 HW 2	Y ELOW DES FREQUE FREQUE 1. GEI 2. CF 3. SL 4. WE 5. WE 6. 64	TOF DE CONTRACTOR	ACY RAWING A, QUANTIT XPLORATIC IT IT DETAIL:	2.26 F 969.95 190 C. 969.95 190 C. 969.95 2 S IES & NOTE	RS F.S.	
O2 VELOCITY O2 ELEVATIO OVERTOPPINO O2 HW2 -	Y ELOW D FREQUE 1. GEI 2. CF 3. SL 4. WE 5. WE 6. EA 7. EA	SIGN FREQUEN ENCY TOF DF NERAL PLAN ROSS SECTION JBSURFACE E EST ABUTMEN AST ABUTMEN AST ABUTMEN	ACY RAWING I, QUANTIT XPLORATIC IT IT DETAIL IT IT DETAIL	2.26 F 969.95 2 YEA 190 C. 969.95 2 S IES & NOTE N S	RS F.S.	
O ₂ VELOCIT O ₂ ELEVATIO <u>ROADWAY OVERF</u> OVERTOPPINO O ₂	Y ON G FREQUE G FREQUE 1. GEI 2. CF 3. SL 4. WE 5. WE 6. EA 7. EA 8. SL	TOF DE NERAL PLAN ROSS SECTION JBSURFACE E ST ABUTMEN AST ABUTMEN AST ABUTMEN JPERSTRUCTU	ACY RAWING N. OUANTIT XPLORATIC IT IT DETAILS RE DETAILS	2.26 F 969.95 2 YEAI 190 C. 969.95 2 S IES & NOTE S	RS F.S.	
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GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

TROT DOT OF A TRICE DOT DAY WARK AND THE TROT TWO DOTS

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

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-62-268" FOR THE ABUTMENTS.

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

THIS STRUCTURE WILL REPLACE EXISTING STRUCTURE P-62-954, A 34.3 FT.LONG STELL DECK GIRDER BRIDGE WITH CLEAR ROADWAY WIDTH OF 24.3 FT. SUPPORTED ON FULL RETAINING TIMBER ABUTMENTS WITH TIMBER PILING.

(B)-BACKFILL PAY LIMITS, BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

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

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND THE ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

EXCAVATION SHALL EXTEND BELOW THE ABUTMENT AS DETAILED ON SHEET 1 AND IN THE STRUCTURE BACKFILL DETAIL BELOW. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF ABUTMENT OR TOP OF BREAKER RUN AND EXTEND 2'-O" ABOVE THE BOTTOM OF ABUTMENT.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP OF SLAB, TO THE TOPS OF WINGS, TO THE EXPOSED FRONT FACES OF WINGS, TO THE END 1'-O" OF THE ABUTMENT BODY FRONT FACES, AND TO THE FACE AND TOP OF PAVING NOTCHES.

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE INSIDE FACES, THE TOP FACES, AND THE ENDS OF PARAPETS.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2012 ADJUSTED). BENCHMARK REFERENCES AT THE PROJECT SITE WERE SET BY THE CONSULTANT USING GPS TECHNOLOGY.

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.

BEVEL EXPOSED EDGES OF CONCRETE $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.



PROFILE GRADE LINE - CTH P

TOTAL ESTIMATED QUANTITIES

ITEN	NUMBER	BID ITEM	UNIT	WEST ABUT.	EAST ABUT.	SUPER	TOTAL
203	.0260.01	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-62-954	EACH	-	-	-	1
206	.1001.01	EXCAVATION FOR STRUCTURES BRIDGES B-62-268	EACH	-	-	-	1
3) - 210.	.1500	BACKFILL STRUCTURE TYPE A	TON	200	200	-	400
311.0	0110	BREAKER RUN	TON	48	36	-	84
502	.0100	CONCRETE MASONRY BRIDGES	CY	34.8	34.8	98.3	168
502	.3200	PROTECTIVE SURFACE TREATMENT	SY	19	19	132	170
502	.3210	PIGMENTED SURFACE SEALER	SY	-	-	44	44
505	.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,490	2,490	-	4,980
505	.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,620	1,620	17,830	21,070
516.	.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	7	7	-	14
550	.2106	PILING CIP CONCRETE 10 3/4 X 0.365-INCH	LF	127	127	-	254
606	.0300	RIPRAP HEAVY	CY	65	60	-	125
612.	.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	95	95	-	190
645	.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	55	55	-	110
645	.0120	GEOTEXTILE TYPE HR	SY	120	110	-	230
		NON-BID ITEMS					
		PREFORMED FILLER	SIZE				1/2" & 3/4"



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STATE PROJECT NUMBER

5478-00-77

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

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



ABUTMENT BACKFILL DIAGRAM

 $\begin{array}{r} L = 0UT-TO-OUT \mbox{ OF ABUTMENT (FT)} \\ H = AVERAGE \mbox{ ABUTMENT FILL HEIGHT (FT)} \\ W1 = WING 1 \mbox{ LENGTH (FT)} \\ W2 = WING 2 \mbox{ LENGTH (FT)} \\ V_{CF} = (L)(3.0')(H)+(L)(0.5)(1.5H)(H)+(0.5)(H)(W1+W2)(3.0')) \\ V_{TON} = V_{CF}(2.0)/27 \end{array}$

PAY LIMITS OF	BAC	CKFILL (B						8
1									
	NO.	DATE		REVISION			BY		
ACKFILL STRUCTURE YPE A		I	STATE DEPARTMENT	OF WISCONS OF TRANSP	SIN ORTAT	ION			
AIN WRAPPED 6-INCH		STRL	JCTURE	B-	62-	268			2.DGN
PE DF SCHEDULE A"				DRAWN BY RL	R	PLANS CK'D.	JRS	5	36_0
2 ⁷ -0" ABOVE BOTTOM OR THE ENTIRE (LENGTH		CRO Q	SS SEC UANTITIE & NOTE	TION, ES S	SHE	∃⊺ 2	OF	10	-E= 73390
				-					



















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 PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

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

TOP OF SLAB ELEVATION AT FINAL GRADE MINUS ___ SLAB THICKNESS 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 WEST ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	C/L BRG EAST ABUT.
SOUTH EDGE OF SLAB	974.84	974.87	974.91	974.95	974.98	975.02	975.06	975.09	9 75. 13	975.17	9 7 5 . 20
C/L CTH P	975.17	975.21	9 7 5 . 25	975.28	975.32	975.36	975.39	9 7 5 . 43	975.47	9 75. 50	9 7 5 . 54
NORTH EDGE OF SLAB	974.99	975.02	9 7 5.06	975.10	975.13	975.17	975.21	975.24	9 7 5.28	975.32	9 7 5.35

	ĉ	WEGT	
			_

	€ WEST ABUTMENT	5/10 PT.	€ EAST ABUTMENT
SOUTH GUTTER			
€ CTH P			
NORTH GUTTER			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE \pounds of abutments, and at 5/10 pts. To verify camber. Take elevations along the gutter lines and crown or \pounds . RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

NOTES

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

TO BE PLUS (+).

STATE FRUJEUT NUMBER	STATE PROJECT NUMBER
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5478-00-77

SURVEY TOP OF SLAB ELEVATIONS

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM, ANY TOLERANCES

FILL IN THE TABLE OF "SURVEY TOP OF SLAB ELEVATIONS" FOR EACH SPAN ON $\underline{\mathsf{AS}}$ BUILT PLANS.

NO.	DATE		REVISION		BY	
	I	STATE DEPARTMENT	OF WISCONS OF TRANSPO	IN DRTATION	1	
	STRL	JCTURE	B-6	62-268		9.DGN
			DRAWN BY EKK	PLANS CK'D	JDH	36.0
S	SUPE	RSTRUC	SHEET 9	0F <u>1</u> 0	- 733901	
			,			FILE



EARTHWORK SUMMARY

	EXCAVATION	EXCAVATION		EXPANDED		
	COMMON	ROCK	FILL (1)	FILL (2)	WASTE	BORROW
STA	CY	CY	CY	CY	CY	CY
9+20.00	-	-	-	-	-	-
	46.00	0.00	1.00	1.00	45.00	-45.00
9+50.00	-	-	-	-	-	-
	30.00	0.00	6.00	8.00	22.00	-22.00
9+71.56	-	-	-	-	-	-
STRUCTURE B-62	2-0268					
10+14.44	-	-	-	-	-	-
	16.00	0.00	58.00	75.00	-59.00	59.00
10+35.00	-	-	-	-	-	-
	19.00	0.00	7.00	9.00	10.00	-10.00
10+50.00	-	-	-	-	-	-
	21.00	0.00	3.00	4.00	17.00	-17.00
10+65.00	-	-	-	-	-	-
SUBTOTALS						
W. APPROACH	76.00	0.00	7.00	9.00	67.00	-67.00
E. APPROACH	56.00	0.00	68.00	88.00	-32.00	32.00
UNUSABLE PAVE	MENT (3)					46.00
TOTALS	132.00	0.00	75.00	97.00	35.00	11.00
(1) - NOT A BID IT	EM - FOR INFO	RMATIONAL PL	JRPOSES OI	NLY.		
(2) - FILL EXPANS	SION 30%					
(3) - EXISTING PA	VEMENT BASE	ON AVE THK C	DF 6.75"			

PROJECT NO: 5478-00-77	HWY: CTH P	COUNTY: VERNON	EARTHWORK	
FILE NAME : N:\PDS\\030200_mq.pptx		PLOT DATE: July 12, 2023	PLOT BY : MSA	PLOT NAME :







Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

