KE	ORDER OF SHEETS		STATE OF WISCONS	IN
PROJECT I	Section No. 1 Title Section No. 2 Typical Sections a Section No. 3 Estimate of Quanti Section No. 3 Miscellaneous Quan Section No. 4 Right of Way Plat	nd Details (Includes Erosion DEP ties Control Plans) tities —	PLAN OF PROPOSED IMPROVEME	ντ
D: 2370-0	Section No. 5 Plan and Profile Section No. 6 Standard Detail Dr Section No. 7 Sign Plates Section No. 8 Structure Plans Section No. 9 Computer Earthwork Section No. 9 Cross Sections	awings Data	DUPLAINVILLE R BRIDGE OVER SPRING CREEK B-67- LOCAL STREET	O A D 0009
4 - 70	TOTAL SHEETS = 72		WAUKESHA COUNT	Y
		Ň	R-19-E 164 THE TENE	R.
COUNTY:	DESIGN DESIGNATION A.A.D.T. (2022) = 2.410 A.A.D.T. (2042) = 2.730 D.H.V. (2042) = 179 D.D. = 59/41 T. = 9.4% DESIGN SPEED = 40 MPH ESALS = 580,000	BEGIN PROJECT STA. 8+80.42 x = 692,949.78 Y = 189,491.08	Pewaukee	STRUCTURE B-67-386 END PROJECT STA. 11+15.17 x=693,055.12 Y=189,281.30
WAUKESH	CONVENTIONAL SYMBOLS PLAN CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT	PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH		Y
ΗA	EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT	GRADE ELEVATION		
	(Box or Pipe) COMBUSTIBLE FLUIDS	GAS C SANITARY SEWER SAN STORM SEWER SS TELEPHONE T WATER W	LAYOUT SCALE 0.5 MI.	Coordinates on this plan are referenced to the Coordinate System (WCCS), Waukesha, NAD 8
	WOODED OR SHRUB AREA	UTILITY PEDESTAL ズ POWER POLE 占 TELEPHONE POLE ダ	TOTAL NET LENGTH OF CENTERLINE = 0.044 MI.	Elevations shown on this plan are referenced American Vertical Datum of 1988 NAVD 88
	FILE NAME : S:\MAD\46004699\4621\003\Drawin	ngs\CAD\Micros\PLAN\010101_ti.dgn	PLOT DATE : 3/7/2022	PLOT BY : _username_ PLOT NAME :

PROJECT ID: 20 WITH: N/A C C

WKE

MAY 2022 ORDER OF SHEETS

STATE PROJECT	FEDERAL PROJ	ECT
	PROJECT	CONTRACT
2370-04-70	WISC 2022389	1
	ACCEPTED FOR	۲
	CITY OF PEWAUK	LL
	Madalan	Digitally signed by Magdelene Wagner
	3/9/2022 e Wagner	DN: cn=Magdelene Wagner, o=City of Pewaukee, ou, email=wagner@pewaukee.wl.us, c=US
	(Date) (Signature & T	Date: 2022.03.09 12:22:35 -06'00'
	ORIGINAL PLANS PRFP	ARED BY
	STRAND	
	ASSOCIATES® 910. WEST WINGRA DRIVE MADISON WISCONSIN 53715	
	(608) 251-4843	
	CONS	
	. WIS	V ·.
	KEITH B.	**
	BEHREND	
	E-42073	Ш.
	MADISON	N N
		6.
	SOMAL E	
	Letter Belin	e
	3/7/2022	
	•1 •1 ====	
	STATE OF WISCON	
	PREPARED BY	
	Surveyor STRAND ASSC	ICIATES, INC.
	Designer STRAND ASSO	DCIATES, INC.
	Project ManagerMICHAEL Regional Examiner	DAIRU
	Regional SupervisorJEFF E	BOHEN
sconsin County	C.O. Examiner	c
(2011).	APPROVED FOR THE DEPARTMENT	1
o the North 2011).	DATE: 3/9/2022 Whichal f	Band
	- 2000 (Si Qria t	ure/ constants
		IE

GENERAL NOTES	UTILITIES	ОТН
NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.		
THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEFEDED ALL EROSION CONTROL MEASURES	* AT&T MATT DINNAUER 435 S 95TH STREET MILWAUKEE, WI 53214 PH: (262) 237-0042 md9542@att.com	DESIG KEITH B STRAND 910 W MADISON PH: (608 keith.b
SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.		CITY
THE LOCATION OF PROPOSED SIGNS AS SHOWN ON THE PLANS ARE APPROXIMATE. THE EXACT NUMBER OF SIGNS AND SIGN LOCATIONS ARE TO BE APPROVED BY THE ENGINEER IN THE FIELD.	* CITY OF PEWAUKEE - SANITARY JANE MUELLER UTILITY SUPERVISOR	MAGGIE DIRECTO W240 N3
DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.	W240 N3065 PEWAUKEE ROAD PEWAUKEE, W153072 (262) 691-0804	PEWAUKE (262) 69 wagner
PERMANENTLY RESTORE ANY AND ALL DISTURBED AREAS WITHIN 14 DAYS OF INITIAL DISTURBANCE. OR, IF NOT POSSIBLE, WITHIN 3 DAYS OF ANY DISTURBANCE, APPLY TEMPORARY SEED AND MULCH TO DISTURBED AREAS	Jellishemanyeermiras	
THAT WILL NOT BE PERMANENTLY RESTORED WITHIN 14 DAYS. MISCELLANEOUS REMOVAL ITEMS SHALL BE REMOVED TO AN EXISTING JOINT, SAWCUT WHERE SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.	* CITY OF PEWAUKEE - WATER JANE MUELLER UTILITY SUPERVISOR WEALWEE PERMALKEE POAD	WISDO MICHAEL WISDOT WAUKESI
A SAWED JOINT SHALL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.	PEWAUKEE, WI 53072 (262) 691-0804 jem@pewaukee.wi.us	141 NW B WAUKESH (262) 544 michael
DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO CONSTRUCTION.		
WETLANDS EXIST IN THE PROJECT AREA.DO NOT DISTURB AREAS OUTSIDE THE SLOPE INTERCEPTS.	* SPECTRUM BEAU ABUYA 1320 N DR MARTIN LUTHER KING JR DR MILWAUKEE, WI 53212 (414) 758-9241 beau.abuya@charter.com	CRAIG W DNR SOI 141 NW E WAUKESI PH: (414) PH: (262 croig.w
	* WE ENERGIES ELECTRIC	WISCO (CANA
ASPHALT BID/MIX SPECIFICATIONS	MICHAEL HUEBNER 315 WILLIAM STREET WATERTOWN, WI 53098 (920) 262-6888 michael.huebner@we-energies.com	JACKIE 3912 S. SUPERIO PH: (715) JockieJ
THICKNESS BID/MIX SPECIFICATION		,con c.
UPPER LAYER 2" 4 MT 58-28 S	*WE ENERGIES GAS	

JACOB SPENCER S13 W33800 STH 18 DELAFIELD, WI 53018 (262) 968-7009 jacob.spencer@we-energies.com

PROJECT N0:2370-04-70	HWY:LOCAL ROAD	COUNTY: WAUKESHA		
FILE NAME : S:\MAD\46004699\4621\003\Drawings\CAD\Micros\f	PLAN\020101_gn.dgn	PLOT DATE : 2/1/2022	PLOT BY : _username_	PLOT NAME :

3 MT 58-28 S

LOWER LAYER

4"

ER CONTACTS

SN CONSULTANT

EHREND, P.E. ASSOCIATES, INC. VINGRA DR WI 53715) 251-4843 ehrend@strand.com

OF PEWAUKEE

WAGNER. P.E. PR OF PUBLIC WORKS/CITY ENGINEER 3065 PEWAUKEE ROAD EE, WI 53072 1-0804 @pewaukee.wi.us

OT REGION

BAIRD, P.E. SOUTHEAST REGION A OFFICE ARSTOW STREET HA, WI 53187 3-5918 .baird@dot.wi.gov

١R

EBSTER JTHEAST REGION BARSTOW ROOM 180 SHA, WI 53188) 574-2141 ebster@wisconsin.gov

ONSIN CENTRAL LTD RAILROAD DIAN NATIONAL)

MACEWICZ POKEGAMA ROAD R, WI 54880 345-2503 macegicz@nc.na



*DENOTES MEMBER OF DIGGERS HOTLINE

SHEET

Ε





FILE NAME : S:\MAD\4600--4699\4621\003\Drawings\CAD\Micros\PLAN\020301_ts.dgn PLOT DATE : 2/1/2022 PLOT BY : _username_



PLOT NAME :



FILE NAME : \$\$....designfile....\$\$

PLOT DATE : \$\$...plottingdate...\$\$ PLOT BY : \$\$...plotuser...\$\$ PLOT NAME :

ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2 FEET GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.

2

Ε



<u>NOTES</u>

2

- 1. CONTRACTOR SHALL PUMP TURBID WATER FROM EXCAVATION TO SEDIMENT BAG PLACED INSIDE FABRIC LINED STAKED BALE ENCLOSURE PRIOR TO DISCHARGING TO DITCHES/INLETS/WETLANDS OR WATERWAYS.
- 2. SEDIMENT BAG TO BE PLACED IN AN UPLAND VEGETATED AREA OR EQUIVALENT LOCATION APPROVED BY THE ENGINEER.
- 3. BASIN TO BE KEPT LESS THAN 10% FULL OF SEDIMENT. GEOTEXTILE FABRIC AND SEDIMENTS TO BE DISPOSED BY THE CONTRACTOR OFF OF THE PROJECT SITE.
- 4. TEMPORARY SETTLING BASIN AND SEDIMENT BAG TO BE INCIDENTAL TO CONTRACT.
- 5. SEDIMENT BAG, BALES AND FABRIC TO BE REPLACED AS NECESSARY AND IS INCIDENTAL TO CONTRACT.
- 6. SIZE TO BE DETERMINED BY THE CONTRACTOR AS PART OF THE ECIP SUBMITTAL.

EXAMPLE TEMPORARY SETTLING BASIN DETAIL

PROJECT NO: 2370-04-70	HWY: LOCAL ROAD	COUNTY: WAUKESHA		CONSTRUCTION	DETAILS	
FILE NAME : S:\MAD\46004699\4621\003\CORRESPONDENCE\WISDOT\IN\2022.03.02	2 CO COMMENTS\TEMP SETTLING BASIN.DWG	PLOT DATE :	3/7/2022 6:47 AM	PLOT BY :	PRIDEMORE, ASHI EY	PLOT NAME :

2

Ε WISDOT/CADDS SHEET 42

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
Α				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-	.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:						•						
ASPHAL T						.7095						
CONCRETE	CONCRETE .8095											
BRICK	BRICK .7080											
DRIVES, WALKS	DRIVES. WALKS .7585											
ROOFS	R00FS .7595											
GRAVEL ROADS.	SHOULDE	RS				.4060						

TOTAL PROJECT AREA = 0.48 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.40 ACRES

SUBGRADE SHOULDER

SALVAGED TOPSOIL EXCAVATION

EXCAVATION BELOW SUBGRADE LOCATION & DEPTH AS DESIGNATED - BY THE ENGINEER

DETAIL FOR EXCAVATION BELOW SUBGRADE



PROJECT N0:2370-04-70	HWY:LOCAL ROAD	COUNTY: WAUKESHA	CONSTRUCTION DETAIL	
FILE NAME : S:\MAD\46004699\4621\003\Drawings\CA	AD\Micros\PLAN\021002_cd.DGN	PLOT DATE : 2/1/2022	PLOT BY : _username_	PLOT NAME :

€ OF TRAVELED WAY —

PAVEMENT

2

Ε

			CONTROL POINTS		
					T
NO.	STATION	OFFSET	Y	X	
2	10+15.97	86.124 T	189,882.50	692,999,76	
3	10+31.93	14.71'L T	189,094.04	693,162.87	MAG NAIL
·			•	·	
			BENCH MARKS	•	
NO.	STATIC	IN I	OFFSET	DESCRIPTION	N
1	7+92.3	5 2	9.36'LT	TOP NUT OF HYD	DRANT
2	11+93.7	0 4	13.38'LT	TOP NUT OF HYD	RANT
		Q.			
				I PIPE	4
				Eur	a a a a
			57	.40' EX	ISTING SIGN
			CP 1		
				79.13'	+50
					15
				EXISTING MAILBO	ox
			4		
					*/

BENCH MARKS

PROJECT NO:2370-04-70	HWY:LOCAL ROAD	COUNTY: WAUKESHA	CONSTRUCTION DETAIL	
FILE NAME : S:\MAD\46004699\4621\003\Drawings\CAD\Micros\P	LAN\021004_cd.DGN	PLOT DATE : 2/1/2022	PLOT BY : _username_	PLOT NAME :







PROJECT N0:2370-04-70	HWY:LOCAL ROAD	COUNTY:WAUKESHA	LAYOUT DETAIL	
FILE NAME : S:\MAD\46004699\4621\003\Drawings\CAD\Micros\F	LAN\021201_pd.DGN	PLOT DATE : 2/1/2022	PLOT BY : _username_	PLOT NAME :

SHEET

Ε

POINT	STATION	OFFSET	REMARKS
100	8+80.42	30' LT	
101	8+80.42	22' LT	
102	8+92.63	18' LT	POST #1
103	9+17.63	18'LT	POST #5
104	9+42.63	18'LT	POST #9
105	9+49.81	22' LT	END RADIUS.R = 50'
106	9+55.80	21.64' LT	END RADIUS, R = 50'
107	9+70.97	19.81' LT	END RADIUS, R = 50'
108	9+76.96	19.45' LT	END RADIUS, R = 50'
109	9+50.77	30' LT	END RADIUS, R = 50'
110	9+53.38	29.93' LT	END RADIUS, R = 50'
111	9+61.35	29.52' LT	END RADIUS, R = 50'
112	9+63.96	29.45' LT	END RADIUS, R = 50'
113	9+82.65	29.45' LT	
114	9+82.65	19.45' LT	
115	8+80.42	20' RT	
116	8+72.29	24.91' RT	MATCH DRIVEWAY
117	8+82.63	26.94' RT	
118	8+82.63	20' RT	POST #1
119	9+07.67	19.06' RT	POST #5
120	9+07.67	23.21' RT	
121	9+32.63	18.12' RT	POST #9
122	9+32.63	21.94' RT	
123	9+72.65	21.94' RT	BASE AGGREGATE LIMIT
124	10+15.15	29.45' LT	
125	10+15.15	19.45' LT	
126	10+20.84	19.45' LT	END RADIUS, R = 50'
127	10+26.84	19.81' LT	END RADIUS, R = 50'
128	10+42.00	21.64' LT	END RADIUS, R = 50'
129	10+48.00	22' LT	END RADIUS, R = 50'
130	10+33.85	29.45' LT	END RADIUS, R = 50'
131	10+36.45	29.52' LT	END RADIUS, R = 50'
132	10+44.43	29.93' LT	END RADIUS, R = 50'
133	10+47.03	30' LT	END RADIUS.R = 50'
134	10+55.15	18' LT	POST #9
135	10+80.15	18' LT	POST #5
136	11+05.17	18' LT	POST #1
137	11+15.17	30' LT	
138	11+15.17	22' LT	
139	10+25.19	21.94' RT	BASE AGGREGATE LIMIT
140	10+65.23	18.1' RT	POST #9
141	10+65.23	22.04' RT	
142	10+90.17	19.02' RT	POST #5
143	10+90.17	24.34' RT	
144	11+15.17	20' RT	POST #1
145	11+15.17	26.94' RT	
146	9+35.75	18' RT	
147	10+62.05	18' RT	











PROJECT NO:2370-04-70	2370-04-70 HWY:LOCAL ROAD		DETOUR ROUTE				
FILE NAME : S:\MAD\46004699\4621\003\Drawings\CAD\Micros\P	_AN\027001_dt.dgn	PLOT DATE : 3/7/2022	PLOT BY : _username_	PLOT NAME :			

|--|

Estimate Of Quantities

					2370-04-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	203.0270	Removing Structure Over Waterway Debris Capture (structure) 01. B-67-9	EACH	1.000	1.000	
0004	205.0100	Excavation Common	CY	434.000	434.000	
0006	206.1000	Excavation for Structures Bridges (structure) 01. B-67-386	LS	1.000	1.000	
8000	210.1500	Backfill Structure Type A	TON	404.000	404.000	
0010	213.0100	Finishing Roadway (project) 01. 2370-04-70	EACH	1.000	1.000	
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	385.000	385.000	
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	625.000	625.000	
0016	311.0110	Breaker Run	TON	35.000	35.000	
0018	455.0605	Tack Coat	GAL	58.000	58.000	
0020	460.2000	Incentive Density HMA Pavement	DOL	200.000	200.000	
0022	460.6223	HMA Pavement 3 MT 58-28 S	TON	184.000	184.000	
0024	460.6224	HMA Pavement 4 MT 58-28 S	TON	92.000	92.000	
0026	465.0105	Asphaltic Surface	TON	32.000	32.000	
0028	502.0100	Concrete Masonry Bridges	CY	197.000	197.000	
0030	502.3200	Protective Surface Treatment	SY	167.000	167.000	
0032	502.3210	Pigmented Surface Sealer	SY	83.000	83.000	
0034	505.0400	Bar Steel Reinforcement HS Structures	LB	6,350.000	6,350.000	
0036	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	23,400.000	23,400.000	
0038	516.0500	Rubberized Membrane Waterproofing	SY	26.000	26.000	
0040	550.0010	Pre-Boring Unconsolidated Materials	LF	52.000	52.000	
0042	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	360.000	360.000	
0044	603.8000	Concrete Barrier Temporary Precast Delivered	LF	25.000	25.000	
0046	603.8125	Concrete Barrier Temporary Precast Installed	LF	25.000	25.000	
0048	606.0300	Riprap Heavy	CY	148.000	148.000	
0050	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	180.000	180.000	
0052	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000	
0054	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600	
0056	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000	
0058	618.0100	Maintenance And Repair of Haul Roads (project) 01. 2370-04-70	EACH	1.000	1.000	
0060	619.1000	Mobilization	EACH	1.000	1.000	
0062	624.0100	Water	MGAL	18.800	18.800	
0064	625.0500	Salvaged Topsoil	SY	340.000	340.000	
0066	627.0200	Mulching	SY	340.000	340.000	
0068	628.1504	Silt Fence	LF	127.000	127.000	
0070	628.1520	Silt Fence Maintenance	LF	1,198.000	1,198.000	
0072	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000	
0074	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0076	628.2008	Erosion Mat Urban Class I Type B	SY	344.000	344.000	
0078	628.7504	Temporary Ditch Checks	LF	12.000	12.000	
0080	630.0170	Seeding Mixture No. 70	LB	1.800	1.800	
0082	630.0200	Seeding Temporary	LB	9.000	9.000	
0084	630.0400	Seeding Nurse Crop	LB	3.600	3.600	
0086	630.0500	Seed Water	MGAL	9.000	9.000	
0088	638.2602	Removing Signs Type II	EACH	4.000	4.000	
0090	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0092	642.5201	Field Office Type C	EACH	1.000	1.000	
0094	643.0420	Traffic Control Barricades Type III	DAY	1,050.000	1,050.000	
0096	643.0705	Traffic Control Warning Lights Type A	DAY	1,200.000	1,200.000	
0098	643.0900	Traffic Control Signs	DAY	900.000	900.000	



			E	stimate Of G		
					2370-04-70	
Line	Item	Item Description	Unit	Total	Qty	
0100	643.5000	Traffic Control	EACH	1.000	1.000	
0102	645.0111	Geotextile Type DF Schedule A	SY	110.000	110.000	
0104	645.0120	Geotextile Type HR	SY	282.000	282.000	
0106	646.1020	Marking Line Epoxy 4-Inch	LF	940.000	940.000	
0108	650.4500	Construction Staking Subgrade	LF	235.000	235.000	
0110	650.5000	Construction Staking Base	LF	235.000	235.000	
0112	650.6500	Construction Staking Structure Layout (structure) 01. B-67-386	LS	1.000	1.000	
0114	650.9910	Construction Staking Supplemental Control (project) 01. 2370-04-70	LS	1.000	1.000	
0116	650.9920	Construction Staking Slope Stakes	LF	235.000	235.000	
0118	690.0150	Sawing Asphalt	LF	60.000	60.000	
0120	715.0502	Incentive Strength Concrete Structures	DOL	1,182.000	1,182.000	
0122	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	250.000	250.000	
0124	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000	
0126	SPV.0060	Special 01. Utility Line Opening (ULO)	EACH	2.000	2.000	
0128	SPV.0090	Special 01. Railing	LF	184.000	184.000	
0130	SPV.0090	Special 02. Silt Fence Double Staked	LF	472.000	472.000	
0132	SPV.0180	Special 01. Enhanced Turbidity Barriers	SY	102.000	102.000	
0134	SPV.0195	Special 01. Select Crushed Material for Travel Corridor	TON	25.000	25.000	



	EARTHWORK													
				SALVAGED/										
			EARTH SALVAGED/ UNUSABLE EXCAVATION PAVEMENT MATERIAL AVAILABLE COMMON REMOVAL (1) MATERIAL (2) EXCAN 5% OF MA CY CY CY 162 44 118 255 42 213 417 86 331			311.0110	205.0100	EBS						
			EXCAVATION	PAVEMENT MATERIAL	AVAILABLE	EBS	BREAKER	EXCAVATION	EXCAVATION	UNEXPANDED	EXPANDED			
			COMMON	REMOVAL (1)	MATERIAL (2) EXCAVATION (3)	RUN (4)	COMMON (5)	REDUCED (6)	FILL	FILL (7)			
						5% OF AVAILABL	-		FACTOR		FACTOR			
						MATERIAL			0.8		1.25			
CATEGORY	STATION	LOCATION	CY	CY	CY	CY	TON	CY	CY	CY	CY			
0010	8+80.42 - 9+82.65	LT & RT	162	44	118	6	11	168	5	138	173			
	10+15.15 - 11+15.17	LT & RT	255	42	213	11	19	266	9	63	79			
_	TOTALS		417	86	331	17	35	434	14	201	251			
_	PAY QUANTITIES						35	434						

1) SALVAGED/UNUSABLE MATERIALS ARE INCLUDED IN EXCAVATION COMMON COLUMN

2) AVAILABLE MATERIAL = EXCAVATION COMMON - SALGVAGED/UNUSABLE MATERIALS

3) EBS EXCAVATION TO BE BACKFILLED WITH BREAKER RUN.

4) BREAKER RUN = EBS EXCAVATION × 1.75 TONS/CY.

5) TOTAL EXCAVATION COMMON = EXCAVATION COMMON + EBS EXCAVATION.

6) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS USEABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.8.

7) EXPANDED FILL FACTOR = 1.25

8) THE MASS ORDINATE + OR - QUANTITY CALCULATED FOR THE CATEGORY.	FINISHING ROADWAY				
PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE CATEGORY,			213.0100		
WINDS WANTER INDICATES A STORTAGE OF WRITERIAL WITHIN THE CATEGORY	CATEGORY	PROJECT I.D.	EACH		
* ADDITIONAL QUANTITIES LISTED ELSEWHERE	0010	2370-04-70	1		

		AS	PHALT ITEMS					BASE AGGREGATE SUMMARY								
			455.0605	460.6223 HMA	460.6224 HMA	465.0105				305.0110 BASE AGGREGATE DENSE 3/4-INCH	305.0120 BASE AGGREGATE DENSE 11/4-INCH	624.0100 WATER				
			TACK	PAVEMENT	PAVEMENT	ASPHALTIC	CATEGORY	STATION - STATION	LOCATION	TON	TON	MGAL *				
			COAT	3 MT 58-28 S	4 MT 58-28 S	SURFACE										
CATEGORY		LOCATION	GAL	TON	TON	TON	0010	8+80 - 9+83	LT & RT	195	315	9.1				
								10+15 - 11+15	LT & RT	190	310	8.9				
0010	8+80 - 9+83	LT & RT	29	93	47	16			TOTALS	385	625	18.0				
	10+15 - 11+15	LT & RT	29	91	45	16										
	10 10 11 10							*ADDITIONAL QUANTITIES LI	STED ELSEWHERE							
_		TOTALS	58	184	92	32										

PROJECT NO: 2370-04-70	HWY:LOCAL ROAD	COUNTY: WAUKESHA	MISCELLANEOUS QUANTITIES

FILE NAME : \$\$....designfile....\$\$

3

PLOT DATE : \$\$...plottingdate...\$\$ PLOT BY : \$\$...plotuser...\$\$ PLOT NAME :

				624.0100
)	MASS			
	ORDINATE	(8)	WASTE	WATER*
			CY	MGAL
	-49		-49	0.3
	145		145	0.5
	97		97	0.8
				0.8

3

SHEET

Ε

		RIPRAP			MGS_SUMMARY	
			606.0300 RIPRAP HEAVY	645.0120 GEOTEXTILE TYPE HR	614. MGS BEAM TF CATEGORY STATION - STATION LOCATION L	2500 614.2610 THRIE MGS GUARDRAII MANSITION TERMINAL EAT F EACH
CATEGORY	STATION - STATION	LOCATION	CY	SY	0010 8+80 - 9+36 RT 35	
					9+36 - 9+75 RT -	1
0010	10+25 - 10+30	LT	5	7	8+93 - 9+46 LT 39	.4
	10+25 - 10+30	RT	٦	5	9+46 - 9+85 LT -	1
	10+23 10+30	IV I	5	5	10+13 - 10+52 LT -	1
					10+52 - 11+05 LT 35	.4
		TOTALS	8	12	10+23 - 10+62 RT -	1
					10+62 - 11+15 RT 39	
					TOTAL 15	7.6 4

			FINISHING ITEMS								
			625 . 0500	627.0200	630.0170 SEEDING	630.0400	630.0200	630.0500			
			SALVAGED		MIX TURE	SEEDING	SEEDING	SEED			
CATEGORY	STATION	LOCATION	SY	SY	LB	LB	TEMPORARY LB	MGAL			
0010	8+80 - 9+83	LT/RT	159		0.8	1.6		5			
	10+15 - 11+15	LT/RT	113		0.6	1.3		4			
	UNDISTRIBUTED		68	340	0.4	0.7	9.0				
		TOTALS	340	340	1.8	3.6	9.0	9			

ER	MOBILIZATIO	NS ROL		MOBILIZATIO EROSION	NS EMERGENCY N CONTROL										
		628.1905			628.1910		EROSION	I MAT				TUF	BIDITY BARRIERS		
CATEGORY	Y	EACH		CATEGORY	EACH				628.2008 URBAN CLASS I					CONCRETE BA	RRIER TEMPORARY
0010		5		0010	3	CATEGORY	STATION - STATION	LOCATION	TYPE B SY				ENHANCED TURBIDIT	Y PRECAST	PRECAST
						0010	8+80 - 9+83 10+15 - 11+15	LT/RT LT/RT	160 115	CATEGORY	STATION	LOCATION	SY	LF	LF
_		TEMPORARY DI	CH CHECKS				UNDISTRIBUTED		69	0010	9+90 10+05	LT & RT LT & RT	52 50	12.5 12.5	12.5 12.5
	CATEGORY	STATION	LOCATION	628.7504 LF				TOTAL	344			TOTALS	102	25	25
	0010	9+65	RT	10											
		UNDISTRIBUTED		2											
			TOTAL	12											
JECT NO.2	370-04	-70			ROAD	COUNTY: WALKES	ΞНΔ	MI		ILANTITIES				SH	IFFT
ME : S:\MAD\460	04699\46	21\003\Drawings	\CAD\Micros`	PLAN\030201_mq.dgn			PLOT DATE : 2/1/202	2	PLOT BY : _userr	name_ PLOT NA	ME :	PLC	T SCALE : \$\$	plotscale	** WISDOT/CADDS

MOBILI	ZATIONS	MOBILIZATIONS EMER
EROSION	CONTROL	 EROSION CONTR
	628.1905	
CATEGORY	EACH	 CATEGORY
0010	5	0010

3

MOBILIZATION				
		619.1000		
CATEGORY	PROJECT I.D.	EACH		
0010	2370-04-70	1		

3

TURBIDITY	BARRIERS
-----------	----------

E

	FIELD OFFICE TYPE C	
		642,5201
CATEGORY	PROJECT I.D.	EACH
0010	2370-04-70	1

SIGNING QUANTITIES						
					638.2602 REMOVING SIGNS	638.3000 REMOVING SMALL
			SIGN	SIGN	TYPE II	SIGN SUPPORTS
CATEGORY	STATION	LOCATION	CODE	MESSAGE	EACH	EACH
0010	9+80	LT	W5-52L	CLEARANCE STRIPE	1	1
	9+85	RT	W5-52R	CLEARANCE STRIPE	1	1
	10+12	RT	W5-52L	CLEARANCE STRIPE	1	1
	10+15	LT	₩5-52R	CLEARANCE STRIPE	1	1
			-	TOTALS	4	4

			646.	1020	
			LINE EPOXY	LINE EPOXY	-
			4-INCH	4-INCH	
			(WHITE)	(YELLOW)	
CATEGORY	STATION	LOCATION	LF	LF	REMA
0010	8+80 - 11+15	LT	235		EDGEL
	8+80 - 11+15	RT	235		EDGEL
	8+80 - 11+15	CL		470	CENT
		TOTALS	470	470	
				10	-
		TUTAL	94	40	

MARKING

TRAFFIC CONTROL SUMMARY								
			6 47	0.400	C 47		643.	0705
			643.	0420	643.	0900	TRAFFIC	CUNTRUL
			BARRI	CADES			WARNING	LIGHTS
		DURATION	TYF	'E III	SI	GNS	TYP	ΕA
CATEGORY	STATION	CALENDAR DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS
0010	ROAD CLOSURE	75	14	1,050	12	900	16	1,200

CONSTRUCTION STAKING SUMMARY

LOCATION

LT & RT

TOTALS

650.4500

SUBGRADE

LF

235

235

650**.**5000

BASE

LF

235

235

650.9920

SLOPE

STAKES

LF

235

235

	CTURE LAYOUT	N STAKING STRU	CONSTRUCTIO	
	650.6500 LS	STRUCTURE	CATEGORY	
CATEG	1	B-67-386	0010	
001				

CONSTRUCTION	STAKING SUPPLEM	MENTAL CONTROL	
CATEGORY	PROJECT	650.9910 LS	
0010	2370-04-70	1	CATEGORY

0010

0.0770.04.70				
10:2370-04-70	HWY:LUCAL ROAD	COUNTY: WAUKESHA	MISCELLANEOUS QUANTITIES	
AD\46004699\4621\003\Drawings\CAD\Micros\P	LAN\030201_mq.dgn	PLOT DATE : 2/1/2022	PLOT BY : _username_ PL	OT NAME :

STATION

8+80 - 11+15

CATEGORY

0010

	TRAFFIC CONTROL	
		643.5000
CATEGORY	PROJECT I.D.	EACH
0010	2370-04-70	1

ARKS

ELINE ELINE TERLINE

	SAWING ASPI	IALT	
			690.0150
GORY	STATION	LOCATION	LF
10	8+80 - 9+83	LT & RT	35
	10+15 - 11+15	LT & RT	25
		TOTAL	60

RAILING		
		SPV.0090.01
STATION - STATION	LOCATION	LF
8+80 - 9+73	LT	93
10+25 - 11+16	LT	91
	TOTAL	184

SHEET

Ε



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)
13C19-03	HMA LONGITUDINAL JOINTS
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14в42-07в	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14в42-07с	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14в44-04в	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14в45-05в	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15с02-08в	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15С11-09в	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



S,D,D, 8 E 8

ω



S.D.D. 8 E 9

Ō

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

Δ

ഗ





Ö

N

4

à

4

~

۵

SD



SDD 14B42 0 ð

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5%" DIAMETER A563A DOUBLE



SECTION THRU W-BEAM RAIL

07b . N 4 à 4 ~ SDD

6

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



SDD 14B42 0 **n**



SDD 14B42 07d

GENERAL NOTES

- (A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED
- © DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.
- D ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.
- E HARDWARE MAY VARY BETWEEN MANUFACTURER SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

SEE SDD 14B42 FOR MORE INFORMATION.

★ DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

THE CENTER OF THE UPPER 3 $\frac{1}{2}$ " DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.





10 31 -(15) SHOULDER HINGE POINT SLOPE 10:1-OR FLATTER

POST BOLT

(TYP.)

MGS BEAM

GUARD (MGS)







SECTION C - C **TYPICAL AT POST NOS. 3 - 9**

SECTION B - B TYPICAL AT POST NO. 2*



SDD 14B44 - 04b

6

BILL OF MATERIALS

N SEE	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. MANUGACTURER'S DETAILS FOR MORE INFORMATION.
UPPER	R POST NO. 1 6" X 6" TUBE
LOWE	R POST NO. 1
WOOD	DCRT
WOOD	DBLOCKOUT
PIPE S	SLEEVE
BEARI	NG PLATE
BCT C	ABLE ASSEMBLY
ANCH	OR CABLE BOX
GROU	IND STRUT
PERFO	ORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
STANE SECTI	DARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. ONS VARY IN LENGTH.
IMPAC	T HEAD
EAT M (SEE A	IARKER POST - YELLOW APPROVED PRODUCTS LIST)
SOIL F	PLATE
UPPER	R POST NO. 2
LOWE	R POST NO. 2

6

SDD14B44 - 04b

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



SDD 14B44 - 04c





S D D

14

Β

4



S

6

45-5c ш 14 Δ Δ

S

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



D D 14 Β 4 S сī Q

S

S
DETAILS.ADJUST THE POSTION OF CONNECTIONS TO TUAL BRIDGE AND SITE DIMENSIONS.
DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
• ± 1".
HE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING Fal to the contract.
A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A D BARRIER AND THRIE BEAM CONNECTION PLATE.CONTRACTOR IS TO FIELD AD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE IER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER.REPAIR ANY INSTALLATION.
NECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, D TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 $1/_2$ ".
HE BEAM MINAL NECTOR HEAD HER ?,) FIC SIDE OF BARRIER

MIDWEST GUARDRAIL SYSTEM Thrie beam transition (MGS)	45-5d
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	14 B
APPROVED 07/2018 /S/ Rodney Taylor DATE ROADWAY STANDARDS DEVELOPMENT HWA UNIT SUPERVISOR	S_D_D_




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.

6



S



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS





S







TEMPORARY PAVEMENT MARKING







 \Box

 \Box

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

1 LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

" BLACK CONTRAST – ½" MAX. GROOVE		
-		
- <u>/</u> 2" MAX. GROOVE	JOINT LINE	/
' BLACK CONTRAST		
		/

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Matthew Rauch STATEWIDE SIGNING AND MARKING ENGINEER

6

SDD15C08 - 20

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.

Ω **60** . ~ ~ 0 Ň ~ ົ

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



STATE PROJECT NUMBER

2370-04-70

DESIGN DATA

STRUCTURE DESIGNED FOR A FUTURE WEARING SURFACE OF 20 PSF

LIVE LOAD:

DESIGN LOADING	HL-93
INVENTORY RATING FACTOR	RF = 1.20
OPERATING RATING FACTOR	RF = 1.55
WISCONSIN STANDARD PERMIT	
VEHICLE (WIS-SPV)	250 KIPS

MATERIAL PROPERTIES:

CONCRETE SUPERSTRUCTURE	f'c	=	4,000	PSI
CONCRETE SUBSTRUCTURE	f'c	=	3,500	PSL
HIGH STRENGTH BAR				
STEEL REINFORCEMENT	fy	=	60,000	PSI

TRAFFIC DATA

A.D.T. (2022): 2,410 A.D.T. (2042): 2,730 DESIGN SPEED: 40 MPH

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 10x42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.

* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

ESTIMATED PILE LENGTHS:

WEST	ABUTMENT	20	FEET	EACH
EAST	ABUTMENT	25	FEET	EACH

STRUCTURE DESIGN CONTACTS

DESIGN CONSULTANT CONTACT: EVAN CONSTANT (608) 251-4843

BUREAU OF STRUCTURES CONTACT: AARON BONK (608) 261-0261

DATE		RE	/ISION			BY	
	910 MA (60 ND (60 NES* WW) WEST DISON, V 08)-251- 08) 251-8 (W.STRAI	WINGRA D WISCONSIN 4843 8655 FAX ND.COM	RIVE 53715			8
EPTEDCł	ST DEPARTM	ATE OF ENT OF	E WISCON TRANS		гюм 1 <mark>2/2</mark>	<mark>2/22</mark> Date	
S	STRUC	TUR	E B·	-67-	386	5	
DUPL	AINVILLE	ROAD	OVER S	PRING	CREEI	<	1
NTY	WAUKE	SHA	town ∕ci	TY/ VILL ,	AGE PE	WAUKEE	1
GN SPEC	LRFD BRID	GE DE	SIGN SPE	ECIFICA	TIONS		
IGNED E	JC DESIGN	KRB	DRAWN BY	DTH 0	PLANS CK'D.	KRB	
GEI	NERAL	ΡL	AN	SHEE	T 1	OF 12	
		STRAND ASSOCIATES* GEPTED CHIEF STRUCT CHIEF STRUCT DUPLAINVILLE NTY WAUKE GN SPEC. SHTO LAFD BRID IGNED EJC DESIGN CK'D.	MADISON, W (608) 251-6 (608) 251-6 WW.STRAIN STATE OF DEPARTMENT OF CHIEF STRUCTURES D STRUCTURES D DUPLAINVILLE ROAD NTY WAUKESHA SHTO LRFD BRIDGE DE IGNED EJC CKD. KRB	MADISON, WISCONSIN (608)-251-4843 (608)-251-484 (708)-251-484 (708)-2	MADISON, WISCONSIN 53715 (608)-251-4843 (608)-251-484	MADISON, WISCONSIN 53715 (608) 251-8655 FAX WWW.STRAND.COM STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION SDR 02/2 SDR 02/2 CHIEF STRUCTURES DESIGN ENGINEER E STRUCTURE B-67-38(DUPLAINVILLE ROAD OVER SPRING CREEL NTY WAUKESHA TOWN-/CITY/VILLAGE SN SPEC. SHTO LRFD BRIDGE DESIGN SPECIFICATIONS IGNED EJC DESIGN KRB BY DTH CKTO. SHEET 1	ADDISON, WISCONSIN 53715 (608) 251-8655 FAX WWW.STRAND.COM STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEPARTMENT OF TRANSPORTATION DUPLAINVILLE ROAD OVER SPRING CREEK NTY WAUKESHA TOWN/CITY/VILLAGE PEWAUKEE SHTO LRFD BRIDGE DESIGN SPECIFICATIONS IGNED EJC DESIGN KRB BY DTH CKD. KRB SHEET 1 OF 12

817 C.F.S. 8.03 F.P.S. EL. 835.44 101.71 SQ. FT. 10.8 SQ. MI. N/A 5

215 C.F.S. 2.98 F.P.S. EL. 833.38

ELEV. 836.85 HYD. TOP NUT, LOCATED APPROX. 200'N. OF BRIDGE, ON E. SIDE OF DUPLAINVILLE RD. 838.88



FILE NAME : S:\MAD\4600--4699\4621\003\Drawings\CAD\Micros\PLAN\080102_cs.dgn

STATE PROJECT NUMBER

2370-04-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

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.

BAR DIMENSIONS FOR BENDING ARE OUT-TO-OUT OF BARS.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-67-386" SHALL BE THE EXISTING GROUND LINE.

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

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

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 ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

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

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

THE EXISTING STRUCTURE B-67-9, A 1-SPAN CONCRETE GIRDER BRIDGE, IS TO BE REMOVED.

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

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

LEGEND

● ¾" V-GROOVE REQ'D. EXTEND TO 6" FROM F.F. OF ABUTMENT DIAPHRAGMS.

- ☑ PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP OF DECK.
- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON "WEST ABUTMENT" SHEET.
- □ PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE INSIDE FACE, TOP, AND ENDS OF THE CONCRETE PARAPETS. IT SHALL ALSO BE APPLIED TO THE BACK FACE OF THE INTERIOR PARAPET.

 \frown FILL VOIDS BETWEEN RIPRAP HEAVY AT THE WEST ABUTMENT \bigtriangledown WITH SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR

(TYP.)										
LOOS	-0	N0.	DATE		F	REVISION			BY	
	<u>-</u> 2		[DEPART	STATE MENT	OF WISCO OF TRANS	NSIN SPORT	TATION	1	
GEOTEXTI	ILE		S	STRL	JCTU	IRE B	-67	7-386		
Í TYPE HR						DRAWN BY	DTH	PLANS CK'D.	^S KRB	
		(SS :	SEC	TION,	S	HEET 2		
TAIL	HEAVY		UL DTES	JAN S &	DF	LS, ITAILS	sГ			





FILE NAME : S:\MAD\4600--4699\4621\003\Drawings\CAD\Micros\PLAN\080104_wa.dgn

STATE PROJECT NUMBER

2370-04-70

<u>NOTES</u>

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF $1_{\!\!/2}"$ FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER 1" DEEP AND HOLD $1_{\!\!/8}"$ BELOW SURFACE OF CONCRETE. EXTEND SEALER 3" BELOW FINISHED ROADWAY SURFACE AT INSIDE FACE.

ADJUST A501 BARS INTERFERING WITH PILES.

SEE SHEET 6 FOR PILE SPLICE DETAILS.

SEE SHEET 5 FOR REINFORCING DETAILS.

WEST ABUTMENT TO BE SUPPORTED ON PILING STEEL 10-INCH X 42 LB WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE.ESTIMATED 20 FEET LONG EACH.

SEE SHEET 2 FOR TYPICAL FILL SECTION AT WING TIPS.

<u>LEGEND</u>

- \bullet $1\!/_2"$ Filler, extend from abut. Seat to top of concrete wing. Filler included in wing length.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- * TOP OF ABUTMENT ELEVATION GIVEN AT B.F. ABUTMENT.
- ** ELEVATION GIVEN AT B.F. ABUTMENT.
- △ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. HIGH POINT EL. 832.25 AT ℝ. ATTACH RODENT SHIELD AT ENDS OF PIPE. SEE DETAIL THIS SHEET.
- STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".





SECTION B-B

8

NOTES:

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

THE RODENT SHIELD, PIPE COUPLING AND ATTACHMENT SCREWS SHALL BE INCLUDED WITH BID ITEM "PIPE UNDERDRAIN 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 \times 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

RODENT SHIELD DETAIL

N0.	DATE	F	REVISION			BY
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION					
	STRUCTURE B-67-386					
DRAWN BY DTH CK'D. K				KRB		
WEST					ET 4	
	А	BUTMEN				



FILE NAME : S:\MAD\4600--4699\4621\003\Drawings\CAD\Micros\PLAN\080105_wa.dgn

TMENT	[
ARS	

	_			
D	LENGTH	BENT	COAT	LOCATION
	14'-0"	х		LOWER BODY - VERT.
	28'-0"	х		LOWER BODY - PILES - SPIRAL
	2'-3"			LOWER BODY - PILES - VERT.
	49'-7"			LOWER BODY - TOP, BOT., & F.F HORIZ.
	51'-10"	х		LOWER BODY - B.F HORIZ.
	3'-9"	х		LOWER BODY - TOP - VERT.
	5'-0"	х		LOWER BODY - TOP - VERT ENDS
	25'-10"			LOWER BODY - TOP - HORIZ.
	2'-11"			LOWER BODY - TOP - HORIZ.
	5'-3"	х		LOWER BODY - TOP - VERT MIDDLE
	17'-0"			LOWER BODY - TOP - HORIZ MIDDLE
	4'-11"			LOWER BODY - ENDS - VERT.
	16'-8"	х	х	LOWER WING - VERT WING 1
	16'-4"	х	x	LOWER WING - VERT WING 2
	12'-2"		Х	LOWER WING - F.F HORIZ WINGS 1& 2
	12'-2"		X	LOWER WING - B.F HORIZ WINGS 1& 2
	9'-0"	х	х	UPPER WING - VERT WINGS 1& 2
	9'-7"		X	UPPER WING - F.F., B.F HORIZ WINGS 1 & 2
	9'-7"		X	UPPER WING - TOP - HORIZ WINGS 1 & 2
	•		•	



FILE NAME : S:\MAD\4600--4699\4621\003\Drawings\CAD\Micros\PLAN\080106_ea.dgn



FILE NAME : S:\MAD\4600--4699\4621\003\Drawings\CAD\Micros\PLAN\080107_ea.dgn

D	LENGTH	BENT	COAT	LOCATION
	13'-10"	х		LOWER BODY - VERT.
	28'-0"	х		LOWER BODY - PILES - SPIRAL
	2'-3"			LOWER BODY - PILES - VERT.
	49'-7"			LOWER BODY - TOP, BOT., & F.F HORIZ.
	51'-10"	х		LOWER BODY - B.F HORIZ.
1	3'-9"	х		LOWER BODY - TOP - VERT.
	5'-0"	х		LOWER BODY - TOP - VERT ENDS
	25'-10"			LOWER BODY - TOP - HORIZ.
	2'-11"			LOWER BODY - TOP - HORIZ.
	5'-3"	х		LOWER BODY - TOP - VERT MIDDLE
	17'-0"			LOWER BODY - TOP - HORIZ MIDDLE
	4'-9"			LOWER BODY - ENDS - VERT.
	16'-0"	х	х	LOWER WING - VERT WING 3
	16'-4"	х	х	LOWER WING - VERT WING 4
	12'-2"		х	LOWER WING - F.F HORIZ WINGS 3 & 4
	12'-2"		х	LOWER WING - B.F HORIZ WINGS 3 & 4
	9'-0"	х	х	UPPER WING - VERT WINGS 3 & 4
	9'-7"		х	UPPER WING - F.F., B.F HORIZ WINGS 3 & 4
	9'-7"		х	UPPER WING - TOP - HORIZ WINGS 3 & 4







FILE NAME : S:\MAD\4600--4699\4621\003\Drawings\CAD\Micros\PLAN\080109_ss.dgn

S LENGTH BENT COA 32'-2" X 24'-0" X 49'-7" X 5'-0" X 32'-2" X 49'-7" X 32'-2" X 49'-7" X 8'-2" X 3'-4" X 43'-1" X 6'-8" X 3'-5" X 3'-2" X 4'-5" X 3'-9" X 4'-5" X 3'-9" X 4'-5" X 2'-9" X 4'-4" X 6'-5" X			<u>COATED: 19.680</u>
LENGTH	BENT	COAT	LOCATION
32'-2"		х	SLAB - LONGIT BOT.
24'-0"		x	SLAB - LONGIT BOT.
49'-7"		X	SLAB - TRANS TOP AND BOT.
5'-0"		x	SLAB - TRANS TOP - EDGE
32'-2"		х	SLAB - LONGIT TOP
49'-7"		X	ABUT. DIAPHRAGM - HORIZ.
8'-2"	х	х	ABUT. DIAPHRAGM - VERT.
3'-4"	х	x	ABUT. DIAPHRAGM - VERT.
43'-1"		Х	ABUT. DIAPHRAGM - HORIZ.
6'-8"	х	х	PARAPET - VERT.
4'-5"	х	x	PARAPET - VERT.
32'-2"		х	PARAPET - HORIZ.
2'-9"	х	х	PARAPET - VERT.
4'-4"	х	x	PARAPET - VERT.
6'-5"	х	X	PARAPET - VERT.
6'-6"	х	Х	PARAPET - VERT.
11'-10"	х	X	PARAPET - HORIZ.
11'-10"		Х	PARAPET - HORIZ.
5'-5"	х	Х	PARAPET - VERT.
11'-10"	х	х	PARAPET - HORIZ.
12'-0"		х	PARAPET - HORIZ.

REQ'D	LENGTH	NO.	DATE	DATE REVISION										
S OF 6	4'-9" TO 6'-1"		UNITE	STATE	OF WISCONS	IN								
EACH SERIES SEPARATELY.														
			STRUCTURE B-67-386											
			DRAWN BY DTH CKD.											
		S	UPE	RSTRUC DETAILS	TURE	SHEE	Т9							



SECTION A-A

SECTION THRU PARAPET ON DECK



FILE NAME : S:\MAD\4600--4699\4621\003\Drawings\CAD\Micros\PLAN\080110_ts.dgn

STATE PROJECT NUMBER

2370-04-70

<u>NORTH</u>	<u>42SS</u>	PARAPET

ļ	BILL	OF BAI	<u>RS</u>	COATED: 580 LBS					
	BAR MARK	W. ABUT. NO. REQ'D	E. ABUT. NO. REQ'D	LENGTH	LOCATION				
	N501	16	16	5'-10"	x	Х	PARAPET - VERT.		
	N502	16	16	6'-8"	x	Х	PARAPET - VERT.		
	N503	8	8 8		x	Х	PARAPET - HORIZ.		





<u>N501</u>

<u>N502</u>





FILE NAME : S:\MAD\4600--4699\4621\003\Drawings\CAD\Micros\PLAN\080111_ts.dgn

			<u>NJ</u>			CUA	ILD. IJU LDJ
	BAR MARK	W. ABUT. NO. REQ'D	E. ABUT. NO. REQ'D	LENGTH	BENT	COAT	LOCATION
	R501	3	3	5'-10"	х	Х	PARAPET - VERT.
	R502	3	3	6'-8"	x	Х	PARAPET - VERT.
	R503	12	12	3'-0"	х	Х	PARAPET - VERT.
	R504	17	17	5'-7"	x	Х	PARAPET - VERT.
	R505	5	5	6'-5"	х	X	PARAPET - VERT.
	R506	6	6	6'-6"	x	Х	PARAPET - VERT.
	R507	1	1	9'-7"	x	Х	PARAPET - HORIZ.
	R508	5	5	9'-7"		Х	PARAPET - HORIZ.
\	R509	6	6	5'-5"	x	X	PARAPET - VERT.
	R510	2	2	9'-7"	x	x	PARAPET - HORIZ.

BAR MARK	W. ABUT. NO. REQ'D	E. ABUT. NO. REQ'D	LENGTH
R509	1 SERIES OF 6	1 SERIES OF 6	4'-9" TO 6'-1"
BUNDLE			



FILE NAME : S:\MAD\4600--4699\4621\003\Drawings\CAD\Micros\PLAN\080112_ts.dgn

STATE PROJECT NUMBER

2370-04-70

<u>NOTES</u>

SEE "SUPERSTRUCTURE DETAILS" SHEET FOR REINFORCING DETAILS.

<u>LEGEND</u>

- CONST. JOINT STRIKE OFF AS SHWON.
- USE CARE TO PLACE S513 BARS CORRECTLY ALONG TRANSITION OF PARAPET.
- ✓ S511, S513, AND S514 BARS TO BE TIED TO SUPERSTRUCTURE STEEL BEFORE SUPERSTRUCTURE IS POURED.

NO. DATE REVISION BY DEPARTMENT OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-67-386 DRAWN DTH PLANS CKD. KRB INTERIOR SINGLE SLOPE PARAPET 42SS	THREADED INSERTS F HEAD CAP SCREWS. C. AND SHALL BE SUPPL INSERTS TO BE THRE 5%6" DIA. BARS WELD TO INSERTS SYM. ABOUT € ASSEMBLY FACE OF CONCRETE DETAIL OF AN NOTE: HEX HEAD CAP SC GALVANIZED IN ACCORDA ASSEMBLY SHALL BE BID STEEL PLATE BEAM GUA	OR 76" DIA. × 2" LONG GALVANIZED HEX AP SCREWS TO BE THREADED A MIN. OF 176" LED, INCLUDING WASHERS, WITH ASSEMBLY. ADED A MINIMUM OF 174".		8	
NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-67-386 DRAWN DTH PLANS CKTD, KRB INTERIOR SINGLE SLOPE PARAPET 42SS					
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-67-386 DRAWN DTH PLANS KRB INTERIOR SINGLE SHEET 12 SLOPE PARAPET 42SS		NO. DATE REVISION	BY		
STRUCTURE B-67-386 DRAWN DTH PLANS KRB INTERIOR SINGLE SLOPE PARAPET 42SS		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
INTERIOR SINGLE SLOPE PARAPET 42SS		STRUCTURE B-67-386			
INTERIOR SINGLE SLOPE PARAPET 42SS		DRAWN BY DTH CKD.	KRB		
		INTERIOR SINGLE SLOPE PARAPET 42SS			





PROJECT NO:	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

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
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							
	MODIFICATIONS												
	WISC	WISCONSIN DEPT OF TRANSPORTATION											
	APPROVE	APPROVED J Spane											
			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						



- 2. Color:
 - Background White Message - Black
- 3. Message Series D



SIZE	Α	В	С	D	E	F	G	н	I	J	к	L	M	N	0	P	0	R	S	Т	U	v	W	X	Y	Z
1																										
25	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3⁄4	9 7/8															
2M	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3/4	9 7/8															
3	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3⁄4	9 7/8															
4	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3⁄4	9 7/8															
5	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 ¾	9 7/8															
PRO	PROJECT NO:																									
FILE N	FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112B.DGN												PLO	T DATE :	01-APR-	2011 14:2	23	PLOT B	Y: msci	9h						

NOTES

1. Sign is Type II - Type H 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
R11-2B
WISCONSIN DEPT OF TRANSPORTATION
APPROVED MHH D
Fer State Traffic Engineer
DATE 4/1/11 PLATE NO. R11-2B.2
SHEET NO: E

WISDOT/CADDS SHEET 42



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 to nearest quarter mile and optically adjust spacing to achieve proper balance.

$\Big)$
1

.5	STANDARD SIGN
2.5	R11-3B
2.5	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matther & Rauch For State Traffic Engineer
	DATE 3/21/17 PLATE NO. R11-3B.3
	SHEET NO: E
PLOT SCAL	E: 6.896672:1.000000 WISDOT/CADDS SHEET 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



FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN

7

PLOT DATE : 18-MAR-2011 12:08

NOTES

- 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.

	Z	Area sq. ft.]							
4	1 3⁄4	9.0		<u>ر</u>						
,	2 3/8	16.0		5						
3	2 3/8	16.0		W2O-3A, B, C, D, F & G						
5	2 3/8	16.0		W/SCO	ISIN DEPT OF TRANSPORTATION					
3	2 3/8	16.0		APPROVED	Matther R Rauch					
;	2 3/8	16.0]	For State Traffic Engineer DATE 3/18/11 PLATE NO. W20-3.7						
					SHEET NO: E					
PLOT SCALE : 9.931739:1.00000					WISDOT/CADDS SHEET 42					

				EA	RTHWORK SUMM	MARY			-		
			AREA (SF)		INCREMENTAL VOLUME (CY) (UNADJUSTED)			CUMMULATIVE VOLUME (CY)			
STATION	REAL STATION	DISTANCE	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAI	FILL	СПТ	SALVAGED/UNUSABLE PAVEMENT MATERIAI	UNEXPANDED FILL	CUT 1.00	FILL 1.25	MASS
8+80.42	880.42	5101711102	45	12	.35						01001012
8+82.63	882.63	2.21	44	12	43	4	1	3	4	4	1
8+92.63	892.63	10.00	43	12	44	16	4	16	20	24	9
9+00.00	900.00	7.37	43	12	42	12	3	12	32	39	15
9+07.63	907.63	7.63	42	12	38	12	3	11	44	53	20
9+17.63	917.63	10.00	42	12	34	15	4	13	59	69	25
9+32.63	932.63	15.00	41	12	33	23	7	18	82	91	31
9+42.63	942.63	10.00	43	12	33	15	4	12	97	106	35
9+50.00	950.00	7.37	44	12	36	12	3	9	109	118	38
9+82.65	982.65	32.65	44	12	36	53	15	44	162	173	55
BRIDGE											
10+15.15	1015.15		66	11	17						
10+50.00	1050.00	34.85	66	12	17	85	15	22	247	200	12
10+55.17	1055.17	5.17	66	12	17	13	2	3	260	204	5
10+65.17	1065.17	10.00	68	12	15	25	4	6	285	211	-9
10+80.17	1080.17	15.00	69	12	14	38	7	8	323	221	-30
10+90.17	1090.17	10.00	71	12	28	26	4	8	349	231	-42
11+00.00	1100.00	9.83	73	12	16	26	4	8	375	241	-54
11+05.17	1105.17	5.17	73	12	15	14	2	3	389	245	-62
11+15.17	1115.17	10.00	76	12	13	28	4	5	417	251	-80

NOTES:

9

1 - CUT: CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL

2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL: ALL EXCAVATED PAVEMENT

3 - FILL: DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

4 - MASS ORDINATE: EXPANDED FILL - AVAILABLE MATERIAL

PROJECT N0:2370-04-70	HWY:LOCAL STREET	COUNTY: WAUKESHA	EARTHWORK	
FILE NAME : S:\MAD\46004699\4621\003\Drawings\CAD\Micros\PLAN\090101_ew.dgn		PLOT DATE : 2/1/2022	PLOT BY : _username_	PLOT NAME :

9

Ε

SHEET















Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

