

FILE NAME : G:\WDOTNW\21030-001 (STH 64)\CIVIL 3D\SHEETSPLAN\010101-TI.DWG

KL ENGINEERING

PLOT NAME

EAU

WOODED OR SHRUB AREA

PLOT BY :



ABBREVIATIONS

BAD BASE AGGREGATE DENSE ΒM BENCH MARK BLDG. BUILDING C/L CENTERLINE C.E. COMMERCIAL ENTRANCE CONCRETE CONC СМСР CORRUGATED METAL CULVERT PIPE CР CULVERT PIPE CULVERT PIPE CORRUGATED STEEL CPCS CULVERT PIPE REINFORCED CONCRETE CPRC CPRCHE CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CTR CENTER E.A.T. ENERGY ABSORBING TERMINAL EASTBOUND EB ELEC ELECTRIC EXISTING EX. FIBER OPTIC FO FIELD ENTRANCE F.E. GAS GAS HMA HOT MIX ASPHALT INVERT ELEVATION IF LEFT HAND FORWARD LHF LEFT LT MΗ MANHOLE MAXIMUM MAX. MINIMUM MIN NB NORTHBOUND NORMAL CROWN NC NOR NORMAL NOT TO SCALE NTS P.E. PRIVATE ENTRANCE PROPERTY LINE P.L. PERMANENT LIMITED EASEMENT PLE PROP PROPOSED RAD RADIUS REINFORCED CONCRETE CULVERT PIPE RCCP REQUIRED REQ'D. RIGHT HAND FORWARD RHF REFERENCE LINE R/L RIGHT RT RW **RIGHT-OF-WAY LINE** SOUTHBOUND SB STANDARD DETAIL DRAWING S.D.D. SHOULDER SHLD SQUARE FEET SF STA STATION SIDEWALK SW SY SQUARE YARD TEL TELEPHONE TEMPORARY LIMITED EASEMENT TLE TYP. TYPICAL WAT WATER WB WESTBOUND

Dial 800)242-8511

www.DiggersHotline.com

UTILITY CONTACTS

COMMUNICATIONS

TDS Telecom Michael Fondow 10 College Avenue Suite 218A Appleton, WI 54911 (715) 693-5171 (Office) (715) 360-4901 (Mobile) Michael.Fondow@TDStelecom.com

HYDROLOGIC SOIL GROUP

.15 .24 .37

.30

.20 .23

.26

SLOPE RANGE

(PERCENT)

0-2 2-6 6& OVER

.30

.33

.50

.30

.37

.28

.36

WANRACK LLC 4550 W 109TH SUITE 115 OVRLAND PARK, KS 66211 (855) 482-7225 SupportServices@WANRack.com

SLOPE RANGE

(PERCENT)

0-2 2-6 6& OVER

.38

.56

.30

.40

.30

.38

.28

.41

.32

.19

34

.20 .25

.27

THE LOCATION OF EXISTING I
THERE MAY BE OTHER UTILIT
SHOWN.

REFERENCE ONLY.

REMOVAL ITEMS REQUIRING RESTORATION OF CONCRETE OR ASPHALT SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER.

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

ENGINEER.

ENGINEER.

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

OTHERWISE NOTED.

TOTAL DEPTH

 $2\frac{1}{4}$

 $2\frac{1}{2}$

7-INCH

THE CONTRACTOR'S HMA PAVING OPERATION SHALL BE CONSISTENT WITH THE TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING OR PARKING LANE.

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.

HMA PAVEMENT WHEN INDICATED ON THE PLANS, SHALL CONSIST OF COURSES AS FOLLOWS UNLESS OTHERWISE NOTED ON THE PLANS.

CONCRETE	0.80 - 0.95	
BRICK	0.70 - 0.80	
DRIVES, WALKS	0.75 - 0.85	
ROOFS	0.75 - 0.95	
GRAVEL ROADS, SHOULDERS	0.40 - 0.60	

SLOPE RANGE

(PERCENT)

0-2 2-6 6& OVER

.20

.28

.27

44

.26

.33

.27

.34

0.70 - 0.95

.12

.26 .34

.19 .22

.25

Δ

SLOPE RANGE

(PERCENT)

0-2 2-6 6&OVER

.22

.38

.24

.30

.25

.32

.16

.30

.20 .19

.26

.08

.22

.24

TOTAL PROJECT AREA = 1.36 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.8 ACRES

ORDER OF DETAIL SHEETS

TYPICAL SECTIONS CONSTRUCTION DETAILS PLAN DETAILS & EROSION CONTROL PERMANENT SIGNING & MARKING TRAFFIC CONTROL

DESIGN CONTACT

ELECTRIC

Wade Matyka

N 1831 STH 13

Medford, WI 54451

wade@taylorelectric.org

LAND USE

ROW CROPS

MEDIAN STRIP-TURF

SIDE SLOPE-TURF

PAVEMENT:

ASPHALT

(715) 678 - 2411

Taylor County Electric Cooperative

CHAD HALVERSON, P.E. KL ENGINEERING, INC. 5400 KING JAMES WAY SUITE 200 MADISON, WI 53719 (608) 663-1218 chalverson@klengineering.com

DNR LIAISON

WENDY HENNIGES DEPARTMENT OF NATURAL RESOURCES 107 SUTLIFF AVENUE RHINELANDER, WI 54501 (715) 365-8916 Wendy.Henniges@wisconsin.gov

WISDOT

MOHAMAD HAYEK WISDOT NW REGION 718 W. CLAIREMONT AVE EAU CLAIRE, WI 54701 (715) 836-2065 Mohamad.Hayek@dot.wi.gov

LOCATION

STH 64

PROJECT NO: 8220-00-70		HWY: STH 64	COUNTY: TAYLOR			GENERAL NOTES	5			
EILE NAME ·	G-\WDOTNW\21030-001 (STH 64)\CIVIL 3D\SHEETSPLAN\020101-GN DWG			1	PLOT DATE ·	5/30/2023 12:15 PM	PLOT BY ·	ΝΑΤΗΔΝ ΒΙΠΙΜΔΝ	PLOT NAME ·	

LAYOUT NAME - GEN NOTES

GENERAL NOTES

INSTALLATIONS AS SHOWN IN THE PLANS, ARE APPROXIMATE. Y INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT

UTILITY REFERENCE LINES ON THE CROSS SECTIONS ARE FOR APPROXIMATE HORIZONTAL

NO TREES AND/OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE

EXCAVATION BELOW SUBGRADE (EBS) LOCATIONS WILL BE DETERMINED BY THE

ALL GRADES PROVIDED ALONG RADII ARE ALONG THE EDGE OF PAVEMENT UNLESS

LAYERS	GRADATION	TRAFFIC	BINDER	DESIGNATION	
			-	-	
" LOWER	4	MT	58-34	S	
" LOWER	4	MT	58-34	S	
UPPER	4	MT	58-34	S	

SHEET

PRE2

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FILE NAME : G:\WDOTNW\21030-001 (STH 64)\CIVIL 3D\SHEETSPLAN\020301-TS.DWG LAYOUT NAME - Typical Sections PLOT DATE : 8/3/2023 2:12 PM PLOT

PLOT BY : KL ENGINEERING PLOT NAME :

2

LEGEND

HMA PAVEMENT, 7-INCH LOWER: 2 1/2-INCH, (4MT 58-34S) LOWER: 2 1/2-INCH, (4MT 58-34S) UPPER: 2-INCH, (4MT 58-34S)

BASE AGGREGATE DENSE 1 1/4-INCH, 12-INCH

BASE AGGREGATE DENSE 3/4-INCH

REMOVE, SALVAGE, AND REINSTALL GUARDRAIL

SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B

SALVAGED TOPSOIL, SEEDING MIXTURE NO. 30, FERTILIZER TYPE B & EROSION MAT URBAN CLASS I TYPE B

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PLOT DATE : 5/30/20

5/30/2023 12:16 PM PLOT BY : KLENGINEERING

PLOT NAME :



FILE NAME : G:\WDOTNW\21030-001 (STH 64)\CIVIL 3D\SHEETSPLAN\021201-PD.DWG LAYOUT NAME - PD-01 PLOT DATE : 5/30/2023 12:16 PM PLOT BY : NATHAN RULLMAN

PLOT NAME :







G:\WDOTNW\21030-001 (STH 64)\CIVIL 3D\SHEETSPLAN\027001-DT.DWG FILE NAME : LAYOUT NAME - DETAIL A

PLOT DATE : PLOT BY : KL ENGINEERING 5/30/2023 2:43 PM



NOTES

SIGNS FOR MAINLINE CLOSURES AND SDD 15C02-b BARRICADES AND SIGN FOR VARIOUS CLOSURES FOR DETAILS NOT SHOWN ON THIS SHEET.





G:\WDOTNW\21030-001 (STH 64)\CIVIL 3D\SHEETSPLAN\027001-DT.DWG FILE NAME : LAYOUT NAME - DETAIL B+C

2

PLOT BY : KL ENGINEERING 5/30/2023 12:17 PM

PLOT NAME :

Estimate Of Quantities

					8220-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. B-60-0001	EACH	1.000	1.000	
0004	204.0165	Removing Guardrail	LF	50.000	50.000	
0006	205.0100	Excavation Common	CY	569.000	569.000	
8000	206.1001	Excavation for Structures Bridges (structure) 01. B-60-0001	EACH	1.000	1.000	
0010	213.0100	Finishing Roadway (project) 01. 8220-00-70	EACH	1.000	1.000	
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	29.000	29.000	
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	452.000	452.000	
0016	415.0060	Concrete Pavement 6-Inch	SY	27.000	27.000	
0018	415.0410	Concrete Pavement Approach Slab	SY	116.600	116.600	
0020	455.0605	Tack Coat	GAL	55.000	55.000	
0022	460.2000	Incentive Density HMA Pavement	DOL	100.000	100.000	
0024	460.6244	HMA Pavement 4 MT 58-34 S	TON	154.000	154.000	
0026	502.0100	Concrete Masonry Bridges	CY	251.000	251.000	
0028	502.3101	Expansion Device	LF	74.000	74.000	
0030	502.3200	Protective Surface Treatment	SY	735.000	735.000	
0032	502.3210	Pigmented Surface Sealer	SY	220.000	220.000	
0034	502.4205	Adhesive Anchors No. 5 Bar	EACH	45.000	45.000	
0036	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	52,070.000	52,070.000	
0038	509.1500	Concrete Surface Repair	SF	108.000	108.000	
0040	514.0445	Floor Drains Type GC	EACH	8.000	8.000	
0042	514.2625	Downspout 6-Inch	LF	21.000	21.000	
0044	517.0901.S	Preparation and Coating of Top Flanges (structure) 01. B-60-0001	EACH	1.000	1.000	
0046	517.1801.S	Structure Repainting Recycled Abrasive (structure) 01. B-60-0001	EACH	1.000	1.000	
0048	517.4501.S	Negative Pressure Containment and Collection of Waste Materials (structure) 01. B-60-0001	EACH	1.000	1.000	
0050	517.6001.S	Portable Decontamination Facility	EACH	1.000	1.000	
0052	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	86.000	86.000	
0054	601.0590	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT	LF	19.000	19.000	
0056	602.3010	Concrete Surface Drains	CY	1.600	1.600	
0058	606.0200	Riprap Medium	CY	5.800	5.800	
0060	606.0300	Riprap Heavy	CY	8.000	8.000	
0062	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000	
0064	614.0345	Steel Plate Beam Guard Short Radius	LF	43.000	43.000	
0066	614.0950	Replacing Guardrail Posts and Blocks	EACH	69.000	69.000	
0068	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8220-00-70	EACH	1.000	1.000	
0070	619.1000	Mobilization	EACH	1.000	1.000	
0072	624.0100	Water	MGAL	8.000	8.000	
0074	625.0500	Salvaged Topsoil	SY	265.000	265.000	
0076	628.1504	Silt Fence	LF	500.000	500.000	
0078	628.1520	Silt Fence Maintenance	LF	500.000	500.000	
0800	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000	
0082	628,1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000	
0084	628.2008	Erosion Mat Urban Class I Type B	SY	288.000	288.000	
0086	628.7560	Tracking Pads	EACH	2.000	2.000	
0088	629.0210	Fertilizer Type B	CWT	0.250	0.250	
0090	630.0130	Seeding Mixture No. 30	LB	5.000	5.000	
0092	630.0200	Seeding Temporary	LB	1,000	1,000	
0094	630.0500	Seed Water	MGAI	6 000	6.000	
0096	634 0614	Posts Wood 4x6-Inch X 14-FT	FACH	18 000	18 000	
5000	001.0014		L/ 10/11	10.000	10.000	

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			I	Estimate Of	Quantities	
					8220-00-70	
Line	Item	Item Description	Unit	Total	Qty	
098	637.2210	Signs Type II Reflective H	SF	12.000	12.000	
100	637.2230	Signs Type II Reflective F	SF	132.000	132.000	
102	638.2602	Removing Signs Type II	EACH	6.000	6.000	
04	638.3000	Removing Small Sign Supports	EACH	6.000	6.000	
106	642.5001	Field Office Type B	EACH	1.000	1.000	
108	643.0300	Traffic Control Drums	DAY	35.000	35.000	
110	643.0420	Traffic Control Barricades Type III	DAY	1,575.000	1,575.000	
112	643.0705	Traffic Control Warning Lights Type A	DAY	2,850.000	2,850.000	
114	643.0900	Traffic Control Signs	DAY	8,850.000	8,850.000	
116	643.0920	Traffic Control Covering Signs Type II	EACH	2.000	2.000	
118	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000	
120	643.5000	Traffic Control	EACH	1.000	1.000	
122	645.0120	Geotextile Type HR	SY	28.000	28.000	
124	645.0130	Geotextile Type R	SY	21.000	21.000	
126	646.1020	Marking Line Epoxy 4-Inch	LF	110,460.000	110,460.000	
128	646.2020	Marking Line Epoxy 6-Inch	LF	1,150.000	1,150.000	
130	648.0100	Locating No-Passing Zones	MI	7.540	7.540	
132	650.4500	Construction Staking Subgrade	LF	153.000	153.000	
34	650.5000	Construction Staking Base	LF	153.000	153.000	
136	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	86.000	86.000	
138	650.6501	Construction Staking Structure Layout (structure) 01. B-60-0001	EACH	1.000	1.000	
140	650.9911	Construction Staking Supplemental Control (project) 01. 8220-00-70	EACH	1.000	1.000	
142	650.9920	Construction Staking Slope Stakes	LF	153.000	153.000	
144	690.0150	Sawing Asphalt	LF	88.000	88.000	
146	715.0502	Incentive Strength Concrete Structures	DOL	1,506.000	1,506.000	
148	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000	
150	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 481+20	EACH	1.000	1.000	
152	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000	
154	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000	
156	SPV.0090	Special 01. Remove, Salvage, and Reinstall Guardrail	LF	216.000	216.000	

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			2 EXCAVA	05.0100 TION COMMON (1)	SALVAGED/UNUSABLE	AVAILABLE		FXPANDED FILL (13)			
	FROM/TO		CUT	EBS EXCAVATION	PAVEMENT MATERIAL	MATERIAL	UNEXPANDED	FACTOR	MASS ORDINATE +/-		
DIVISION	STATION	LOCATION	(2)	(3)	(4)	(5)	FILL	1.25	(14)	WASTE	COMMENT
DIVISION 1											
STH 64	479+40.00/483+05.00		569	0	141	428	5	6	422	422	
DIVISION 1 SUBTOTAL			569	0	141	428	5	6	422	422	
GRAND TOTAL			569	0	141	428	5	б	422	422	
	TOTAL COMMON	N EXC		569							

NOTES:

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

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

(3) EBS EXCAVATION TO BE BACKFILLED WITH BASE AGGREGATE DENSE 1.1/4-INCH

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

OR

OR

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

(13) EXPANDED FILL FACTOR = 1.25

DEPENDING ON SELECTIONS:

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

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

EXPANDED FILL = (UNEXPANDED FILL_EXPANDED ROCK_REDUCED MARSH) * FILL FACTOR

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

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

PROJECT NO:	8220-00-70	HWY: STH 64	COUNTY: TAYLOR	MISCELLANEOUS QUANTITIES						

PRE10

3

PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 42

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SHEET

		BASE AGGREGATE DENSE					CONCRE	TE SURFACE DRAIN	<u>S</u>		
	CATEGORY STATION TO STATION LO	305.0110 BASE AGGREGATE DENSE 3/4-INCH DCATION TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	REMARKS	CATEGOR	Y STA	ATION LOC	4 C SURI ATION	-16.1010 ONCRETE FACE DRAINS CY	REMARKS	
3	0010 479+40 - 483+05 S	STH 64 29	452		0010 0010	482 482	+50 LT ST +90 RT ST	H 64 H 64	0.8 0.8		
_	, PKOJE	ECTIVIAL 29	452				PROJEC	CT TOTAL	1.6		
		ASPHALTIC ITEMS						<u>RIPRAP</u>			
		455.0605 TACK COAT	460.6244 HMA PAVEMENT 4 MT 58-34 S		CATEGORY	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0130 GEOTEXTILE TYPE R SY	REMARKS	
	<u>CATEGORY STATION TO STATION LO</u> 0010 479+40 - 483+05 S	CATION GAL	TON 154	REMARKS	0010 0010	482+50 LT 482+90 RT	STH 64 STH 64	3.0 2.8	11 10		
	PROJE	ECT TOTAL 55	154				PROJECT TOTAL	5.8	21	-	

				<u>cc</u>	NCRETE ITEMS			
				415.0060	415.0410	601.0588	601.0590	
						GUTTER 4-INCH	GUTTER 4-INCH	
	CATEGORY	STATION TO ST	ATION LOCATION	6-INCH	APPROACH SLAB	TYPE TBT	TYPE TBTT	REMARKS
	0010	479+40 - 48	3+05 STH 64	27	116.6	86	19	
			PROJECT TOTA	L 27	116.6	86	19	
						_		
NO. 0220.00.70				Ū				

PROJECT NO:	8220-00-70	HWY: STH 64	COUNTY: TAYLOR	COUNTY: TAYLOR		MISCELLANEOU	MISCELLANEOUS QUANTITIES	
FILE NAME : G:\WDOT!	NW\21030-001 (STH 64)\CIVIL 3D\SHEETSPLAN\030201-MQ.DW0		PLOT DATE :	5/30/2023 12:17 PM	PLOT BY :	NATHAN RULLMAN	PLOT NAME :	

FILE NAME G:\W N/W/\21 (STH 64)\CIVIL 3D\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - MQ-02

E

	GUARDRAIL ITEMS		
	204.0165 614.0345 STEEL PLATE REMOVING BEAM GUARD	614.0950 SPV.0090.01 SPECIAL (01. REPLACING REMOVE, GUARDRAIL SALVAGE, AND POSTS AND REINSTALL	WATER 624.0100 WATER
CATEGORY STATION ΤΟ STATION Ι ΟCATION	GUARDRAIL SHORT RADIUS	BLOCKS GUARDRAIL)	CATEGORY STATION TO STATION LOCATION MGAL REMARKS
OO10 479+30 - 479+95 LT STH 64 0010 479+54 - 480+14 RT STH 64 0010 482+29 - 482+93 LT STH 64	12.5 12.5 43 12.5	20 65 9 21 20 65	
0010 482+47 - 483+11 RT STH 64	12.5	20 65	
PROJECT TOTAL	50 43	69 216	
EROSION CO 628.: SILT F CATEGORY STATION TO STATION LOCATION L 0010 479+40 - 483+05 STH 64 40 UNDISTRIBUTED 9 PROJECT TOTAL 50	NTROL L504 628.1520 628.2008 EROSION MA SILT FENCE URBAN CLASS ENCE MAINTENANCE TYPE B E LF SY 7 407 240 3 93 48 0 500 288	NT S I 	MOBILIZATION EROSION CONTROL 628.1905 628.1910 MOBILIZATIONS MOBILIZATIONS EMERGENCY EROSION CATEGORY STATION TO STATION TO STATION LOCATION EACH EMEMARKS 0010 479+40 483+05 STH 64 2 1 PROJECT TOTAL 2 1
TRACKING PADS 628.75 TRACKING CATEGORY STATION TO STATION LOCATION EACH 0010 479+40 - 483+05 STH 64 2 PROJECT TOTAL 2	50 PADS REMARKS	<u>CATEGORY STATION TO S</u> 0010 479+40 - 4 UN	LANDSCAPING 625.0500 SALVAGED 629.0210 FERTILIZER 630.0200 SEEDING 630.0500 SEEDING TOPSOIL TYPE B TOPSOIL SEEDING MIXTURE TYPE B SEEDING SEED WATER TATION LOCATION SY CWT LB LB MGAL REMARKS 83+05 STH 64 240 0.20 4.40 0.80 5.4 OISTRIBUTED 25 0.05 0.60 0.20 0.6 PROJECT TOTAL 265 0.25 5.00 1.00 6.0
PROJECT NO: 8220-00-70 HWY: STH 64	t C	UNTY: TAYLOR	MISCELLANEOUS QUANTITIES SHEET PRE12

FILE NAME : G:\WDOTNW\21030-001 (STH 64)\CIVIL 3D\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - MQ-03

PLOT BY : NATHAN RULLMAN PLOT NAME : PLOT DATE : 5/30/2023 12:23 PM

				PERMANENT SIGNING	AND SIGN REMOVA	ΔI S					<u>11</u>	STALLING AND MAINTAIN	ING BIRD DETERRENT	<u>SYSTEM</u>
					634.0614 POSTS WOOD 4X6-INCH X 14- FT	637.2210 SIGNS TYPE II REFLECTIVE H	637.2230 SIGNS TYPE II REFLECTIVE F	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS			M D	999.2000.S.01 NSTALLING AND AINTAINING BIRD ETERRENT SYSTEM (STATION) (01. 481+20)	
CATEGORY SI	IGN NO. APPROX. STA. LOC	C. SIGN CODE	SIGN MESSAGE	IN	EACH	SF	SF	EACH	EACH	REMARKS	CATEGORY	LOCATION	EACH	REMARKS
0010 0010 0010 0010	P1 RT P2 RT P3 LT P4 LT	I-3-1 W5-52R W5-52L W5-52R	BLACK RIVER CLEARANCE STRIPER DOWN RIGHT CLEARANCE STRIPER DOWN LEFT CLEARANCE STRIPER DOWN RIGHT	36"X24" 12"X36" 12"X36" 12"X36"	2 1 1 1	6.00 - - -	3.00 3.00 3.00	- - -			0010	PROJECT	1	
0010 0010 0010 0010 0010	P5 L1 P6 RT E1 RT E2 RT E3 LT	H-3-1 W5-52L H-3-1 W5-52R W5-52L	CLEARANCE STRIPER DOWN LEFT BLACK RIVER CLEARANCE STRIPER DOWN RIGHT CLEARANCE STRIPER DOWN LEFT	12"X36" 36"X24" 12"X36" 12"X36" 12"X36"	1 		3.00 - - -	- - 1 1 1 1	- - 1 1 1			LOCATING NO	PASSING ZONES 648.0100	
0010 0010 0010 0010	E4 LT E5 LT E6 RT	W5-52R I-3-1 W5-52L W14-3	CLEARANCE STRIPER DOWN RIGHT BLACK RIVER CLEARANCE STRIPER DOWN LEFT NO PASSING ZONE	12"X36" 36"X24" 12"X36" 48"X36"	- - 10		- - 120.00	1 1 1 -	1 1 1 - IN	NSTALL ON DETOUR ROUTE	_CATEGOF 0010	Y LOCATION PROJECT	LOCATING NO- PASSING ZONES MI 7.54 [REMARKS
				PROJECT TOTAL	18	12.00	132.00	6	6			PROJECT TOTAL	7.54	
CATEGORY 0010 0010	LOCATION PRE WARNING PROJECT	NO. OF DAYS DAY 7 75	643.0300 643.0420 TRAFFIC CONTROL DRUMS III DAY DAY 35 1575	TRAFFIC CONTROL 643.0705 DL TRAFFIC CONTROL PE WARNING LIGHTS TYPE A DAY 2850	643.0900 5 TRAFFIC CONTROL SIGN DAY 8850	643.0920 TRAFFIC CONT COVERING SIG IS TYPE II EACH 2	643.1 ROL GNS TRAFFIC C SIGNS I DA 14 	.050 CONTROL PCMS YY 4 - COV	REMARKS /ERING SIGNS ONE CY(<u>CATEGO</u> 0010	<u>Ry station to sta</u> 479+40 - 483	SAWING PAVEMENT TION LOCATION 8+05 STH 64 PROJECT TOTAL	690.0150 SAWING ASPHALT LF 88 88	REMARKS
CATEGORY 0010 0010	STATION TO STATION 479+40 - 483+05	LOCATIO STH 64 DETOUR RO	35 1575 <u>PAVEMENT MARKING</u> 646.1020 MARKING LINE EPOXY 4-IN YELLOW WHITI N LF LF UTE 33,160 77,30	2850 646.24 ICH MARKING LINE E E YELLOW LF 460 0	8850 220 2POXY 6-INCH WHITE LF 690 RES	2 REMARKS TRIPE DETOUR ROU	14 	4 <u>CATEGORY</u> S 0010 4	<u>STATION TO STATION</u> 479+40 - 483+05	<u>CON</u> CO N LOCATION 5 STH 64	ISTRUCTION STAKING IT 650.4500 650 INSTRUCTION STAKING CONST SUBGRADE STAKI LF 153 :	EMS 5000 650.5500 CONSTRUCTI STAKING CU RUCTION GUTTER AN NG BASE CURB & GUT LF LF 53 86	0 650.9920 ON RB CONSTRUCTIO D STAKING SLOP TER STAKES LF 153	N E REMARKS
		PROJECT TO	DTAL 110,460	1,15	0					PROJECT TOTAL	153 :	53 86	153	_
ROJECT NO:	8220-00-70		HWY: STH 64		COUNTY: TAY	YLOR		MISCEL	LANEOUS QUANT	TITIES			SHEET	PRE13

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FILE NAME :

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PLOT DATE : 5/30/2023 2:56 PM PLOT BY : NATHAN RULLMAN PLOT NAME :



G:\WDOTNW\21030-001 (STH 64)\CIVIL 3D\SHEETSPLAN\050101-PP (STH 64).DWG LAYOUT NAME - PP-01

PLOT NAME

PLOT BY : PLOT DATE : 8/24/2023 7:44 AM

Standard Detail Drawing List

08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08d02-08a	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-08B	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08002-080	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08004-07	CONCRETE SURFACE DRATNS & ASPHALTIC FLUMES
08F09-06	STIT FENCE
08F14-01	
12403-10	
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13001-19	CONCRETE PAVEMENT LONGTUDINAL JOINTS AND TIES
14B15-11A	STEEL PLATE REAM GUARD CLASS "A" INSTALLATION & FLEMENTS
14B15-11B	STEEL PLATE REAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15 - 11C	STEEL DIATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
$1/B_{20} - 12^{1}$	STELL FLATE BEAM STOLETING CERSS A, INSTALLATION & ELEMENTS
14B20-12A	STEEL THREE BEAM STRUCTURE AFFROACH CONNECTION TO SOURCE END DADADETS
1/B27_01A	STELL HINTE BEAM STRUCTURE AFFROACH, CONNECTION TO SQUARE END FARAFETS
14027-01A 14027-010	STEEL FLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01B	STEEL PLATE DEAM GUARD SHORT RADIUS TERMINAL
14027 - 01C 14020 - 01	STEEL FLATE BEAM GUARD SHOKT RADIUS TERMINAL
14029-01	SAFELT EDGE MTDWEST CHARDRATH SVSTEM (MCS) CHARDRATH
14042-07A 14042-07P	MIDWEST GUARDRAIL STSTEM (MGS) GUARDRAIL
14042-070 14042-070	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14042-07C	MIDWEST GUARDRAIL STSTEM (MGS) GUARDRAIL
14042-070 14045-05A	MIDWEST GUARDRAIL STSTEM (MGS) GUARDRAIL
	MIDWEST GUARDRAIL SYSTEM THREE DEAM TRANSITION (MGS)
	MIDWEST GUARDRAIL SYSTEM THREE DEAM TRANSITION (MGS)
	MIDWEST GUARDRAIL SYSTEM THREE BEAM TRANSITION (MGS)
	MIDWEST GUARDRAIL STSTEM THREE BEAM TRANSITION (MGS)
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	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
	MIDWEST GUARDRAIL SYSTEM THREE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THREE BEAM TRANSITION (MGS)
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-09H	MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDI
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-08A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-08B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15019-080	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

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NDIVIDED ROAD OPEN TO TRAFFIC



SDD 08D01 23a

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DEPARTMENT OF TRANSPORTATION





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)





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TRACKING PAD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER





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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CONCRETE PAVEMENT 0 2 3 DEPARTMENT OF TRANSPORTATION ~ Δ

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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GENERAL NOTES

(1) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS.

DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.

- (2) USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.
- (3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- (4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.
- (5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).
- (6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 21/2 INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.
- WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE (7)NAILS OVER THE FLANGE OF THE STEEL POST.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.

3'-6" MIN

END VIEW

STEEL POST & NOTCHED

PLASTIC BLOCKOUT ALTERNATIVE

STANDARD INSTALLATION





END VIEW

LONGER POST AT HALF

(LHW)

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

POST SPACING W BEAM





END VIEW



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

DEPARTMENT OF TRANSPORTATION

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DETAIL FOR DOUBLE BLOCKS

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



DETAIL FOR TRIPLE BLOCKS

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

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

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



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

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STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED June 2017 /S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT DATE UNIT SUPERVISOR

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SDD 14B20 . -**2**a



STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER

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ER OF Posts	* NUMBER AND LENGTH OF CURVED RAILS	REQUIRED AREA FREE OF FIXED OBJECTS (LENGTH × WIDTH)				
	1 at 12.5'	25'× 15'				
	1 a† 25'	30'× 15'				
	1 at 25' and 1 at 12.5'	40' × 20'				
	2 at 25'	50'× 20'				

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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ATTACH W BEAM RAIL TO THE STEEL PIPE WITH A %" X 2" BUTTON HEAD BOLT WITH NO WASHER. CONNECTION TO THE POST IS NOT REQUIRED.

INSTALL GALVANIZED 3/4" (6X19) PREFORMED WIRE OR INDEPENDENT WIRE ROPE CORE CONFORMING TO AASHTO M 30. MANUFACTURE WIRE ROPE OUT OF IMPROVED PLOW STEEL WITH A MINIMUM BREAKING STRENGTH OF 42,800 PSI.

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STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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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

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MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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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 ?.)

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

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

- (2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- (4) TOLERANCE FOR TOP OF BEAM IS ± 1".
- (6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- (7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THREE BEAM CONNECTOR PLATE, BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- (8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".
- (9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.







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MID W Thrie	EST GUARDRAIL SYSTEM Beam transition (MGS)
DEPAR	STATE OF WISCONSIN TMENT OF TRANSPORTATION
APPROVED 07/2018	/S/ Rodney Taylor
DATE	ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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WELDING INSTRUCTION (VIEWED FROM BACK SIDE OF PLATE)

> S11 1 $c rac{2}{3} 8^{1}/2'' \times 8^{3}/4'' \times 1^{13}/16'' 1/4''$ SINGLE SLOPE CONNECTION PLATE

	CONNE	ECTO (PE	R PLATE DIMENS	ION
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS
P1	1	в	20" × 20"	3/16''
P2	1	Br∕c	20" × 20" × 28%6"	3∕16''
P3	1	B C D	39" × 35⁄8" × 20" × 195⁄16"	3⁄16''
S1	4	B	187/16" × 35/8" × 183/4"	1/4"
S2	1	B D	$10^{1}/_{4}$ " × $2^{7}/_{16}$ " × $10^{3}/_{8}$ " × $1/_{2}$ "	1⁄4"
S3	1	B₽₽D	$3'' \times 1'_{16}'' \times 3'_{8}'' \times 1'_{2}''$	1⁄4"
S4	1	в	6¼8" × 2Ҋ6"	1⁄4"
S5	1	в	6 ¹ /8" × 1 ¹ /16"	1/4"
S6	1	в 📥	7∛4" × 1¾"	1⁄4"
S 7	1	₽₽C	2%6"×6"×35%"×57%"	1⁄4"
S8	1	₽₽C	$1^{5}/_{32}$ " × $7^{1}/_{2}$ " × $2^{1}/_{2}$ " × $7^{3}/_{8}$ "	1⁄4"
S9	1	C B	6 ¹ / ₁₆ " × 6 ³ / ₁₆ " × 1 ³ / ₃₂ "	1/4"
S10	1	A₽C	$1\frac{7}{8}$ " × $9\frac{7}{8}$ " × $3\frac{5}{8}$ " × $9^{11}/_{16}$ "	1/4"
C 11	1	A		17.0

/ TYPICAL

(11)

(P3)-

(S2

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(VIEWED FROM BACK SIDE OF PLATE)

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GENERAL NOTES COVER PLATE PANELS ARE $\frac{3}{16}$ " THICK. ALL STIFFENERS ARE 1/4" THICK. CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED. FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS. ALL HOLE DIAMETERS SHALL BE 1". FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS: SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND $\frac{3}{16}$ " FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS: $3\!\!/_6$ "Fillet weld by 1" long spaced at 2".



MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED /S/ Rodney Taylor 7/2018 DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR FHWA S

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- (2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
 - DAMAGED CONCRETE FROM BOLT INSTALLATION.





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CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THREE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY



GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS \pm 1".

(2) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND ¹/₂-INCH BEYOND NUT.

ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

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MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 7/2018 DATE

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

DATE FHWA R



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(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THREE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 7/2018 DATE

FHWA

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

FULL ROAD CLOSURES.

THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

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

 - D1 X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
 - R1 1 SHALL BE 36" X 36"
- (1)TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (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.







OTES	,
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CELLS OF CORRUGATED PLASTIC SHALL BE VERTICALLY ORIENTED. PROVIDE A 0.4-INCH THICK BASE CORRUGATED PLASTIC WITH A 0.035-INCH WALL THICKNESS AND 0.4-INCH CELL SIZE. FOR 36" WIDE SIGNS: USE 6 FASTENERS AS SHOWN. FOR 24" WIDE SIGNS: USE 4 FASTENERS WITH EDGE SPACING AS SHOWN AND 6" SPACING BETWEEN FASTENERS. METAL WASHERS, NUTS, BOLTS AND LAGS SHALL HAVE HEXAGONAL A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3.

ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC3

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 ON THE BOLTS.

> LAG SCREWS - 5/16" x 1" MACHINE BOLTS - 5/16" x 1-1/4" LENGTH W/NUTS

1-1/4" O.D. x 3/8" I.D. x 1/16" STEEL 1-1/4" O.D. x 3/8" I.D. x .080 NYLON

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED /S/ Andrew Heidtke ROADWAY STANDARDS DEVELOPMENT ENGINEER

May 2023 DATE

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SDD

15C04

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

- 2" MIN. 2

NOTE: TYPICALLY LEFT OF CENTER

LINE IN THE -

OF TRAFFIC

JOINT LINE

*6" EDGE LINE (WHITE) -

DIRECTION

 \Box

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(1) Lo (2) M S

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TWO WAY TRAFFIC

ONE WAY TRAFFIC

BLACK LAG

MARKING

SHOULDER

6" EDGE LINE (YELLOW) -

2" MIN. 2

SHOULDER

2

3" 🗐

PERMANENT PAVEMENT MARKING

T

50'

LANE LINE

– MARKING

(WHITE)

SDD 15C08-23a

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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

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PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE

/S/ Jeannie Silver STATEWIDE SIGNING AND MARKING ENGINEER

GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

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





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SDD

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

FHWA

GENERAL NOTES

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





TYPE II BARRICADE

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



TYPE III BARRICADE

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

★ IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

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

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CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER





15C19-08a

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SDD

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

DEPARTMENT OF TRANSPORTATION

APPROVED February 2023 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER 6

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SDD 15C19-08b WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLES AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.



MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2023 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

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ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS

IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2

ROAD

WORK

AHEAD

(2)

PAINT

AHEAD

= 1

= 1



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2023 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER 6

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PROJECT NO:	HWY:	COUNTY:			
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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.

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	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>

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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	
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	WISC	onsin l	DEF	PT OF T	RANSI	PORTATION	'
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			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\A59.dgn

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PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME :

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.

three bracket bands installed. Signs less than 3 feet in height shall have two bracket

a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

<u>SE</u>	<u>e detail b</u>
	STANDARD SIGN
	SIGN BANDING DETAILS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthe Rauch
	DATE 6/10/19 PLATE NO. 45-9.4
	SHEET NO: E
PLOT SCAL	E:\$\$plotscale\$\$ WISDOT/CADDS SHEET 42


GENERAL NOTES

- WISDOT STANDARD SPECIFICATIONS
- AND 0.025" THICKNESS
- 9 S.F. 3 FASTENERS SHALL BE USED.
- a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- OR TYPE E EACE SIGN

 \times LAG BOLTS SHALL BE $\frac{3}{8}$ " X 2 $\frac{1}{2}$ "

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgr

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE

2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH

3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:

8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X 3_{8} " I.D. X .080 FOR TYPE H

BLOCK BANDING DETAIL (V-BLOCK OPTION)
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
≁or State Traffic Engineer
DATE <u>4/19/2022</u> plate no. <u>45-10.3</u>
SHEET NO: E
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NOTES

- 2. Color:
 - Background White Message – Black



SIZE	А	В	С	D	E	F	G	н	I	J	К	L	м	N	0	Р	0	R	S	Т	U	v	W	Х	Y
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3	36		2 1/4			18	8 3⁄4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33									
4	36		2 1/4			18	8 3⁄4	9 1/4	15 3/8	5 3/8	12 5/8	17 1⁄8	1 1/2	2 7/8	16 7/8	33									
5	36		2 1/4			18	8 3⁄4	9 1/4	15 3/8	5 3/8	12 5/8	17 1⁄8	1 1/2	2 7/8	16 7/8	33									
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1. Sign is Type II - Type H Reflective
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base
  material is plywood but borders shall be rounded
  as shown. When base material is metal, the
  corners and borders shall be rounded.
```

Z Årea sq. ft.		STATE M1-6 F	ROUTE MARKI FOR ASSEMBLI	ER IES
4.0		WISCONSIN	DEPT OF TRANSPORTAT	ION
9.0		APPROVED	Matthe & Paul	
9.0			f_{or} State Traffic Engineer	2
9.0	J	DATE <u>3/16/</u>	<u>18</u> PLATE NO. <u>M1-6</u>	.10
			SHEET NO:	E
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- All Signs Type I
 Color:
 - Background -Message - Se
- 3. Message Series
- 4. Corners may be material is plyw as shown. When corners and bo
- 5. M3-1 thru M3-4

MB3-1 thru MB3.

- MK3-1 thru MK3-
- MM3-1 thru MM3-
- MN3-1 thru MN3-
- MP3-1 thru MP3
- 6. Note the first than the remai

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<u>TES</u> II - Type H
See note 5 ee note 5 - C
ood but borders shall be rounded base material is metal, the orders shall be rounded.
Background - White Message - Black -4 Background - Blue Message - White
-4 Background - Green Message - White -4 Background - White
Message - Green -4 Background - Brown Message - White -4 Backaround - White
Message - Blue letter of each direction is larger inder of the message.

		STANDARD SIGNS
Z	Area sq. ft.	M3-1thur M3-4
		SERIES
	2.00	WISCONSIN DEPT OF TRANSPORTATION
	4.5	APPROVED Matthew P Paul
	4.5	for State Traffic Engineer
	4.5	DATE 10/15/15 PLATE NO. M3-1.14
		SHEET NO:

-



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

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

7 Areg	STANDARD SIGN
∠ sq. tt.	M4 - 8
2.0	WISCONSIN DEPT OF TRANSPORTATION
4.5	APPROVED Matther R Rauch
	DATE <u>11/10/10</u> PLATE NO. <u>M4-8.2</u>
	SHEET NO: E
PLOT SCALE : 4.7	67233:1.000000 WISDOT/CADDS SHEET 4



- WIS DOT Standard and STRUCTURE CON
- 2. Color:
 - Background Or Message – Black
- 3. Message Series -
- 4. Corners may be so material is plywood as shown. When ba corners and borde



SIZE	Α	В	С	D	E	F	G	н	I	J	к	L	М	N	0	P	0	R	S	Т	U	v	w	Х	Y	Γ
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PROJECT NO: HWY: COUNTY:												-						-				-				
FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48A.DGN PLOT DATE												TE: 09-M	/AR-2011	10:29	PLO	T BY : ms	scj9h		PLOT NA	AME :						

NOTES

- Type F Reflective - referer d Specification for HIGHWAY ONSTRUCTION latest edition.	ICE
)range ck - B	
square or rounded when base od but borders shall be round base material is metal, the ders shall be rounded.	led
	_
STANDARD S	IGN
<u>Z sq. fr.</u> M4 - 8 A	
3.0 WISCONSIN DEPT OF TRANS	PORTATION
5.0 AFFROVED Matther R	Kauch
	gineer 0 M4-8A.2
SHEET NO:	<u> </u>
PLOT SCALE : 3.972696:1.000000 WISDOT/C	ADDS SHEET 42



SIZE

NOTES

1. Sign is Type II-Type F Reflective

2. Color:

3. Message Series - D





Arrow Detail



SIZE	А	В	С	D	E	F	G	н	I	J	К	L	М	N	0	P	Q	R	S	Т	U	V	w	X	Y
1																									
2	30	24	1 1/8	3/8	1/2	5	3	11	2	12 5/8	4	8	6	1/2	3										
3																									
4																									
5																									
PROJECT NO: HWY:										COUNTY:															
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M49RA.dgn											PLOT DATE : 10-DEC 2020 6:17 PLOT BY : dotc4c PLOT N/						PLOT NAM	Е:							

NOTES

Background - Orange Message – Black

Z	Area sq. ft.	STANDARD SIGN	
		M4-9RA	
	5.00	WISCONSIN DEPT OF TRANSPORTATION	v
		APPROVED Matthew R Raus	<u>_</u>
		DATE <u>12/10/2020</u> PLATE NO. <u>M4-9RA</u>	<u>.1</u>
		SHEET NO:	Ε



FILE NAME . C.\CAEfiles\Projects\tr_stdolate\M51 DGN

PLOT DATE . 01-DEC-2015 18.07

PLOT BY . \$\$ DIOTUSER \$\$ PLOT NAME :

```
NOTES
1. Signs are Type II - Type H reflective except as shown
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.
            M5-1 and M5-2
                             Background - White
                    Message - Black
  MB5-1 and MB5-2 Background - Blue
                              Message - White
  MK5-1 and MK5-2 Background - Green
                             Message - White
  MM5-1 and MM5-2 Background - White
                    Message - Green
  MN5-1 and MN5-2 Background - Brown
                             Message - White
  M05-1 and M05-2 Background - Orange - Type F Reflective
                    Message - Black
  MP5-1 and MP5-2 Background - White - Type H Reflective
                    Message - Blue
  MR5-1 and MR5-2 Background - Brown
                             Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.
```

	Aree	STANDARD SIGN	
Z	sq. ft.	M5-1 & M5-2	
	3.06	WISCONSIN DEPT OF TRANSPORTATION	
	6.25	APPROVED Matthe P. P.	
	C 05	T'un March Rallich	-
	6.25	<i>for</i> State Traffic Engineer	
	6.25	DATE 10/15/15 PLATE NO. M5-1.13	_
		SHEET NO:	Ε



FILE NAME · C·\CAEfiles\Projects\tr_stdplate\M61_DCN

7

PINT DATE . 01-DEC-2015 17.57 PINT RY . \$\$ 010

PLOT BY . \$\$ DIOTUSER \$\$ PLOT NAME :

e II - Type H except as Shown - See note 4 See note 4 pe square or rounded when base ywood but borders shall be rounded	
- See note 4 See note 4 De square or rounded when base wood but borders shall be rounded	
be square or rounded when base wood but borders shall be rounded	
n base material is metal, the porders shall be rounded.	
2 Background – White Message – Black	
-2 Background - Blue Message - White	
-2 Background - Green Message - White	
-2 Background - White Message - Green	
5-2 Background - Brown Message - White	
5-2 Background – Orange – Type F Reflective Message – Black)
-2 Background - White Message - Blue	
5–2 Background – Brown Message – Yellow	

Ā	
Ñ	
¥	
1	

Z	Årea sq. ft.	ST/ Me	ANDAF 5-1 8 SEF	RD SIGN & M6-2 RIES	N	
	3.06	WISCONSIN	DEPT OF	TRANSPORT	ATION	
	6.25	APPROVED	Matthe	, P.P.		1
	6.25		For State	Traffic Engineer	ww	<u>۲</u>
	6.25	DATE 10/15.	/15	PLATE NO	16-1.1	5
			SHEET	NO:		Ε



- 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															
PRC	PROJECT NO:																									
FILE N	FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112B.DGN PLOT DATE : 01-APR-2011 14:23 PLOT BY : msc i9h																									

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		S		RD SIGN			
2 . 5		R11-3B					
2.5	WISCONSIN DEPT OF TRANSPORTATION						
		APPROVED	Matthe For sto	te Traffic Engineer	_		
		DATE 3/2	21/17	PLATE NO. R11-3B.	3		
			SHEET	NO:	Ε		
	PLOT SCALE : 6.8966	572:1.000000) wisc	DOT/CADDS SHEE	T 42		



Line 3 is series C. 4. Corners and borders shall be rounded on all base

Area	ı <u> </u>		
 sq. ft.	Γ	STANDARD SIGN	
5.56		W14-3	
		WISCONSIN DEPT OF TRANSPORTATIO	V
	Α	APPROVED Matther & Raud	/
		$\frac{f_{or}}{f_{or}} \text{ State Traffic Engineer}$ DATE $3/21/17$ PLATE NO. W14-3	.10
		SHEET NO:	Ε

WISDOT/CADDS SHEET 42



FILE NAME : C:\Users\PROJECTS\tr_stdplate\W202.DGN

PLOT DATE : 18-MAR-2011 10:00

PLOT NAME :

PLOT BY : mscj9h

NOTES

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

Message – Black

 Message Series - See note 5
 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.
 Line 1 is Series D. Line 2 is Series D for AHEAD and Series C for all other distances.

7	Area	l				
۷	sq. ft.					
	9.0		>	IANDA	RD SIGN	
	16.0		W20	-2A.B.	.C.D.F &	G
	16.0					-
	16.0		W/SCO	NSIN DEPT	OF TRANSPORTATIO	W
	16.0		APPROVED	Math	R R Rau	L
	10.0			for St	ate Traffic Engineer	~_
	16.0		DATE 3	/18/11	PLATE NO. W20-2	.6
						_
				SHEET	NO:	E
	PLO	DT SCALE : 9.93173	9:1.000000) wisc	OT/CADDS SHEE	T 42



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		51			
}	2 3/8	16.0		5	TANDARD SIGN		
,	2 3/8	16.0		W20-	·3A, B, C, D, F & G		
,	2 3/8	16.0		W/SCON	ISIN DEPT OF TRANSPORTATION		
3	2 3/8	16.0		APPROVED	Matther R Rauch		
3	2 3/8	16.0]	For State Traffic Engineer DATE 3/18/11 PLATE NO. W20-3.7			
					SHEET NO: E		
		PLOT S	SCALE : 9.931739	WISDOT/CADDS SHEET 42			

NOTES

- 2. Color:
 - - Message White
- 3. Message Series E



I3-1; 2.250" Radius, 0.750" Border

Ι

PROJECT NO:8220-00-70	HWY:STH 64	COUNTY: TAYLOR	PERMANENT SIGNING	
FILE NAME : C:\CAEfiles\Projects\tr_d6_6601a523.dgn		PLOT DATE : 22-MAY 2023 10	20 PLOT BY : dotc4c	PLOT NAME :

1. Sign is Type II - Type H Reflective

Background - Green

7

Ε

SHEET NO: PRE15



8

STATE	PROJECT	NUMBER

DESIGN DATA

LIVE LOAD

INVENTORY RATING	HS-14
OPERATING RATING	HS-24
WISCONSIN STANDARD PERMIT VEHICLE LOAD (WIS-SPV)	160 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY BRIDGES... ...f'c = 4.000 P.S.I. BAR STEEL REINFORCEMENT, HIGH STRENGTH GRADE 60......fy = 60,000 P.S.I.

TRAFFIC DATA

STH 64 A.D.T. = 1880 (2024) A.D.T. = 2120 (2044) RDS = 55 MPH

LIST OF DRAWINGS

- 1. GENERAL PLAN
- CROSS SECTION, NOTES & QUANTITIES
 REMOVAL AND PAINTING DETAILS
 CONCRETE REPAIR DETAILS
- 5. SUPERSTRUCTURE 1
- 6. SUPERSTRUCTURE 2
 7. SUPERSTRUCTURE DETAILS 1
 8. SUPERSTRUCTURE DETAILS 2
- 9. FLOOR DRAIN TYPE GC
- 10. EXPANSION DEVICE
- 11. COVER PLATE DETAILS 12. SINGLE SLOPE PARAPET SS32 13. SINGLE SLOPE PARAPET SS42
- 14. ANCHOR SLAB DETAILS 1
- 15. ANCHOR SLAB DETAILS 2

NO.	DATE			RE	/ISION			BY			
		K	$\langle L$	Eng	A Bette	?E r Experi		7	0		
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION										
ACC	EPTED_ C	HIEF	STRUCT	JRES DE	SIGN EN		7/2	8/23 DATE			
		S	TRUC	TUR	E B-	-60	-1				
			STH 64	OVER	BLACK	RIVE	R				
COUI	NTY		т	AYLOR	TOWN /C	ITY/VILL	AGE	HAMMEL			
DESI REF	GN SPE HABILIT	EC. ATIOI	N N/A								
DESI BY	GNED	CDH	DESIGN CK'D.	САН	DRAWN BY	STD	PLANS CK'D.	CDH			
	GE	NE	RAL	PLA	.N	SHEE	ET 1	OF 15			

(608) 261-0261

CHAD HALVERSON



TOTAL ESTIMATED QUANTITIES

8

ITEM NUMBER	ITEM DESCRIPTION	UNIT	W ABUT	PIER 1	PIER 2	E ABUT	SUPERSTR	TOTAL
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS B-60-1	EACH						1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-60-1	EACH						1
502.0100	CONCRETE MASONRY BRIDGES	CY	8.7			8.7	233.4	251
502.3101	EXPANSION DEVICE	LF					74	74
502.3200	PROTECTIVE SURFACE TREATMENT	SY					735	735
502.3210	PIGMENTED SURFACE SEALER	SY	14			14	192	220
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	10			10	25	45
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,760			1,760	48,550	52,070
509.1500	CONCRETE SURFACE REPAIR	SF	30			78		108
514.0445	FLOOR DRAINS TYPE GC	EACH					8	8
514.2625	DOWNSPOUT 6-INCH	LF					21	21
517.0901.S	PREPARATION AND COATING OF TOP FLANGES B-60-1	EACH					1	1
517.1801.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-60-1	EACH					1	1
517.4501.S	NEGATIVE PRESSURE CONTINAMENT AND COLLECTION OF WASTE MATERIALS B-60-1	EACH					1	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH					1	1
606.0300	RIPRAP HEAVY	CY	4			4		8
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2			2		4
645.0120	GEOTEXTILE TYPE HR	SY	14			14		28
	NON-BID ITEMS							
	FILLER	SIZE	1/2" & 3/4"			1/2" & 3/4"		
	BEAM SEAT PROTECTION		X			х		

VPI STA 479+92 VPI EL 1359.2

-0.67%

8220-00-70

DRAWINGS SHALL NOT BE SCALED.

- EXISTING STRUCTURE B-60-1, IS A 3 SPAN, STEEL DECK GIRDER STRUCTURE WITH AN OVERALL WIDTH OF 33'-10" AND AN OVERALL LENGTH OF 214'-4 $\frac{1}{4}$ ". THE EXISTING CONCRETE DECK IS TO BE REMOVED AND REPLACED.
- DECK REMOVAL PIECES THAT DO NOT CONTAIN REBAR MAY BE LEFT IN PLACE ON THE SLOPES IN FRONT OF THE ABUTMENTS AS DIRECTED BY THE ENGINEER. DISPOSE OF ALL OTHER DECK REMOVAL MATERIAL IN ACCORDANCE WITH "REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS B-60-1" BID ITEM.
- BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
- THE FIRST OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR
- DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
- ALL CONCRETE REMOVAL SHALL BE DEFINED BE A 1-INCH DEEP SAW CUT, UNLESS SPECIFIED OTHERWISE.
- UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.
- VARIATIONS TO THE NEW GRADE LINE OVER 1/4" MUST BE SUBMITTED BY THE FIELD ENGINEER TO THE STRUCTURES DESIGN SECTION FOR REVIEW.
- THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL
- PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP OF DECK AND PAVING BLOCK. PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE TOP AND ROADWAY FACE OF THE PARAPETS.
- COLOR OF THE FINISH TOP COAT ON THE STEEL GIRDERS SHALL BE AMS STANDARD 595A COLOR #25240 BLUE
- THE BID ITEM "STRUCTURE REPAINTING RECYCLED ABRASIVE B-60-1" INCLUDES CLEANING AND PAINTING ALL STRUCTURAL METAL SURFACES (WITHIN THE LIMITS AS SHOWN ON THE PLANS), CLEANING AND PAINTING ALL BEARINGS. PAINTING END 5 FEET OF THE GIRDERS AND FRAMING SYSTEM AT THE EXPANSION JOINTS, AND PAINTING THE BOTTOM FLANGES OF THE EXTERIOR GIRDERS.
- PERFORM "CONCRETE SURFACE REPAIR" AS DIRECTED BY THE ENGINEER IN THE FIELD. QUANTITIES SHOWN ON THE PLANS ARE APPROXIMATE.
- EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR IN THE LINEAL FOOT PRICE BID AS "EXPANSION DEVICE B-60-1".





STATE PROJECT NUMBER



WEST ABUTMENT PLAN ELEVATION





	STATE PROJECT NUM	IBER
	8220-00-7	0
	~	
	~~~ <b>~</b>	
80'-0" SPAN 2	~~~ <b>~</b>	
	~~~ <b>~</b>	
- 43SS PARADET	-	
4233 FARALEI		
- S404 - TOP (TYP.)	S521 (TYP.) @ FLOOR DRAINS	
	HS HS	
481+00	X	
	Z	
	— — — — — — — — — — — — — — — — — — —	
	FIN	
АР (ТҮР.)—➡	S401 BOT (TYP.)	
	ž Š	
32SS PARAPET		
	∕►	
	I	
NTERLINE OF GIRDER.		
LINE OF BEARINGS AND AT 0.1		8
T FINAL GRADE		
TER STEEL ERECTION	NO. DATE REVISION	BY
OOWNWARD DEFLECTION IS ON IS SUBTRACTED	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTA	TION
	STRUCTURE B-60	-1
NCH	DRAWN BY STD	PLANS CK'D. CDH
	SUPRERSTRUCTURE	EET 5 OF 15
	PIAN = 1	





(LOOKING EAST)

TOP OF DECK ELEVATIONS SPAN 3

TOP OF DECK GRADES	PIER 2	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	E. ABUT
N. EDGE OF DECK	1357.86	1357.81	1357.77	1357.73	1357.69	1357.64	1357.60	1357.56	1357.51	1357.47	1357.43
GIRDER 1	1357.91	1357.86	1357.82	1357.78	1357.74	1357.69	1357.65	1357.61	1357.56	1357.52	1357.48
GIRDER 2	1358.00	1357.95	1357.91	1357.87	1357.83	1357.78	1357.74	1357.70	1357.65	1357.61	1357.57
GIRDER 3	1358.09	1358.04	1358.00	1357.96	1357.92	1357.87	1357.83	1357.79	1357.74	1357.70	1357.66
RL / CROWN	1358.13	1358.08	1358.04	1358.00	1357.96	1357.91	1357.87	1357.83	1357.78	1357.74	1357.70
GIRDER 4	1358.06	1358.01	1357.97	1357.93	1357.89	1357.84	1357.80	1357.76	1357.71	1357.67	1357.63
GIRDER 5	1357.93	1357.88	1357.84	1357.80	1357.76	1357.71	1357.67	1357.63	1357.58	1357.54	1357.50
GIRDER 6	1357.80	1357.75	1357.71	1357.67	1357.63	1357.58	1357.54	1357.50	1357.45	1357.41	1357.37
S. EDGE OF DECK	1357.73	1357.68	1357.64	1357.60	1357.56	1357.51	1357.47	1357.43	1357.38	1357.34	1357.30



TOP OF DECK ELEVATIONS SPAN 1

TOP OF DECK GRADES	W. ABUT	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 1
N. EDGE OF DECK	1358.82	1358.78	1358.74	1358.69	1358.65	1358.61	1358.56	1358.52	1358.48	1358.44	1358.39
GIRDER 1	1358.87	1358.83	1358.79	1358.74	1358.70	1358.66	1358.61	1358.57	1358.53	1358.49	1358.44
GIRDER 2	1358.96	1358.92	1358.88	1358.83	1358.79	1358.75	1358.70	1358.66	1358.62	1358.58	1358.53
GIRDER 3	1359.05	1359.01	1358.97	1358.92	1358.88	1358.84	1358.79	1358.75	1358.71	1358.67	1358.62
RL / CROWN	1359.09	1359.05	1359.01	1358.96	1358.92	1358.88	1358.83	1358.79	1358.75	1358.71	1358.66
GIRDER 4	1359.02	1358.98	1358.94	1358.89	1358.85	1358.81	1358.76	1358.72	1358.68	1358.64	1358.59
GIRDER 5	1358.89	1358.85	1358.81	1358.76	1358.72	1358.68	1358.63	1358.59	1358.55	1358.51	1358.46
GIRDER 6	1358.76	1358.72	1358.68	1358.63	1358.59	1358.55	1358.50	1358.46	1358.42	1358.38	1358.33
S. EDGE OF DECK	1358.69	1358.65	1358.61	1358.56	1358.52	1358.48	1358.43	1358.39	1358.35	1358.31	1358.26

TOP OF DECK ELEVATIONS SPAN 2

8

TOP OF DECK GRADES	PIER 1	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 2
N. EDGE OF DECK	1358.39	1358.34	1358.29	1358.23	1358.18	1358.13	1358.07	1358.02	1357.96	1357.91	1357.86
GIRDER 1	1358.44	1358.39	1358.34	1358.28	1358.23	1358.18	1358.12	1358.07	1358.01	1357.96	1357.91
GIRDER 2	1358.53	1358.48	1358.43	1358.37	1358.32	1358.27	1358.21	1358.16	1358.10	1358.05	1358.00
GIRDER 3	1358.62	1358.57	1358.52	1358.46	1358.41	1358.36	1358.30	1358.25	1358.19	1358.14	1358.09
RL / CROWN	1358.66	1358.61	1358.56	1358.50	1358.45	1358.40	1358.34	1358.29	1358.23	1358.18	1358.13
GIRDER 4	1358.59	1358.54	1358.49	1358.43	1358.38	1358.33	1358.27	1358.22	1358.16	1358.11	1358.06
GIRDER 5	1358.46	1358.41	1358.36	1358.30	1358.25	1358.20	1358.14	1358.09	1358.03	1357.98	1357.93
GIRDER 6	1358.33	1358.28	1358.23	1358.17	1358.12	1358.07	1358.01	1357.96	1357.90	1357.85	1357.80
S. EDGE OF DECK	1358.26	1358.21	1358.16	1358.10	1358.05	1358.00	1357.94	1357.89	1357.83	1357.78	1357.73

r \$401								
S405, S414 (TOP)								
	NO.	DATE	RE	VISION			BY	
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION							
└_ _{\$405} , _{\$415} (BOT)	STRUCTURE B-60-1							
				DRAWN BY	STD	PLAN: CK'D.	S CDH	
NAL CK	S	UPRI C	ERSTRUCTU ETAILS 1	JRE	SHEE	T 7	OF 15	



2

STATE PROJECT NUMBER

Т	BENT	BAR SERIES	LOCATION
			SLAB - BOT - LONGIT.
			SLAB - TOP - LONGIT SPAN 1 & 3
			SLAB - TOP - LONGIT OVER PIERS
			SLAB - TOP - LONGIT SPAN 2
			SLAB - TOP & BOT - TRANS.
	Х		SLAB - TOP - TRANS EDGE OF DECK
			END DIAPHRAGM - HORIZ.
			END DIAPHRAGM - HORIZ.
	Х		END DIAPHRAGM - VERT.
			PARAPET - HORIZ.
	Х		PARAPET - VERT.
	Х		PARAPET - VERT.
	Х		PARAPET - VERT.
		Х	SLAB - TOP -TRANS.
		Х	SLAB - BOT TRANS.
			PAVING BLOCK - HORIZ.
	Х		PAVING BLOCK - VERT.
	Х		PAVING BLOCK - ANCHOR
			PAVING BLOCK - AT EXPANSION DEVICE
			END OF DECK - AT EXPANSION DEVICE
			FLOOR DRAIN - LONGIT.





ALL MATERIAL FOR TYPE "GC" CASTING, EXCLUDING GRATE HOLD DOWN SCREWS, SHALL BE GRAY IRON CONFORMING TO ASTM A48, CLASS 30. (APPROXIMATE WEIGHT = 225#)

BY STRUCTURES DESIGN SECTION STD CK'D CDH SHEET 9 OF 15

AND DRILL ¹³ / ₁₆ " DIA.
STING GIRDER WEB.
WITH PRIMER PRIOR TO
OLTS.



NOTES

1½"

Ø

6"

TYP.

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENT: PLATES SHALL BE PROVIDED 3" FROM EACH SIDE OF THE FIELD SPLICE. DET SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSION THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSION AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT AD NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN A SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 AND S GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

ALL MATERIAL IN THE EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR S SHALL BE PAID AT THE UNIT PRICE BID FOR "EXPANSION DEVICE B-60-1", LI

STATE PROJECT NUMBER

8220-00-70

LEGEND

- (1) NEOPRENE STRIP SEAL (4 INCH) AND STEEL EXTRUSIONS.
- (2) STUDS %" DIA. X 6%" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- 2A ½" THICK ANCHOR PLATE WITH ½" DIA. ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.
- $^3\!\!/_4$ " dia. Threaded Rod with 2 nuts and plate washers. Weld threaded Rod to top flange or attach by bolting thru flange. On Abutment side grout threaded Rod into field (3) DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN
- (4) $\frac{3}{4}$ " DIA. THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
- 5 FABRICATE SUPPORT FROM 3" X ½" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE $1\!\!\!/_2$ DIA. HOLE FOR NO. 3 AND 1" DIA. HOLE FOR NO. 4.
- (6) GALVANIZED PLATE $\frac{3}{8}$ " X 10" X 2'-2" LONG WITH HOLES FOR NO.7.
- (7)
- (8) ³/₄" DIA. X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
- (9) $\frac{3}{4}$ " DIA. X $\frac{2}{4}$ " GALVANIZED THREADED COUPLING.
- 1 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

S. IF USED, ANCHOR AILS SHALL BE SEAL.								
ONS SUCH								
	NO.	DATE		RE	VISION		BY	
is clean Dhesive for	R STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION							
ACCORDANCE WITH E PLATES, SUPPORTS	S	TRU	CTURE	B-	60-1			
					DRAWN BY	PLANS STD CK'D	CDH	
		E	XPANSI	SHEET 10 OF 15		= 2.00		
F.			DEVIC	E				SCALE :





SECTION A-A

VIEW OF PARAPET PLATE **FROM ROADWAY**





SECTION B-B



BAR MARK	COAT	WING 1	WING 4	LENGTH	BENT	BAR SERIES	LOCATION	
R501	х	6	6	6'-6"	х		PARAPET VERT.	
R502	х	8	8	5'-0"	х		PARAPET VERT.	
R503	х	12	12	3'-0"	Х		PARAPET VERT.	
R504	х	17	17	6'-4"	Х		PARAPET VERT.	
R505	Х	11	11	4'-9"	Х		PARAPET VERT.	
R506	х	6	6	4'-10"	х		PARAPET VERT.	
R507	х	1	1	13'-10"	Х		PARAPET HORIZ.	
R508	х	5		14'-4"			PARAPET HORIZ WING 1	
R509	Х		5	13'-4"			PARAPET HORIZ WING 4	
DE10	v	2	2	E' 2"	v			



STATE PROJECT NUMBER

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BILL OF BARS

FOR WING PARAPETS

TOTAL COATED = 980 LBS

BAR MARK	COAT	WING 2	WING 3	LENGTH	BENT	BAR SERIES	LOCATION	
T501	Х	6	6	6'-6"	х		PARAPET VERT.	
T502	Х	8	8	6'-8"	Х		PARAPET VERT.	
T503	Х	12	12	3'-0"	Х		PARAPET VERT.	
T504	Х	17	17	6'-4"	Х		PARAPET VERT.	
T505	Х	5	5	6'-5"	Х		PARAPET VERT.	
T506	Х	6	6	6'-6"	Х		PARAPET VERT.	
T507	Х	1	1	13'-1"	Х		PARAPET HORIZ.	
T508	Х	5		13'-4"			PARAPET HORIZ WING 2	
T509	Х	6	6	5'-5"	Х		PARAPET VERT.	
T510	Х	2		13'-4"	Х		PARAPET HORIZ WING 2	
T511	Х		5	14'-4"			PARAPET HORIZ WING 3	
T512	Х		2	14'-4"	Х		PARAPET HORIZ WING 3	
T513	Х	3	3	5'-2"	Х		PARAPET VERT PAVING BLOCK	

▲ LENGTH SHOWN FOR BAR IS AN AVERAGE AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE





W	'ING	EL. A	EL. B	EL. C	EL. D
	1	1358.74	1358.83	1356.91	1356.85
	2	1358.86	1358.95	1357.03	1356.92
	3	1357.43	1357.34	1355.43	1355.48
	4	1357.31	1357.22	1355.31	1355.42

BILL OF BARS

TOTAL COATED = 1,700 LBS

BAR MARK	NO. REQ'D.	LENGTH	COAT	BENT	BAR SERIES	LOCATION	
A401	46	3'-5"	Х	Х		VERT STIRRUP	
A502	64	8'-2"	Х	х		HORIZ TOP - TRANS.	
A403	34	7'-5"	Х			HORIZ BTM - TRANS.	
A404	24	10'-8"	Х		Х	LONGIT - WINGS 1 & 3	
A405	24	13'-8"	Х		Х	LONGIT - WINGS 2 & 4	
A406	2	13'-10"	Х			CURB - LONGIT	
A407	2	14'-7"	Х			CURB - LONGIT	
A408	2	12'-5"	Х			CURB - LONGIT	
A409	2	13'-2"	Х			CURB - LONGIT	
A510	28	9'-3"	Х	х		HORIZ TOP	
A411	16	8'-6"	Х			HORIZ BTM	
A512	32	2'-8"	Х			ADHESIVE ANCHORS - HORIZ.	

NOTES:

LENGTHS SHOWN FOR ANY BAR IN A BAR SERIES IS AN AVERAGE LENGTH AND SHOULD BE ONLY USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BEND DETAILS ARE OUT TO OUT OF BAR.

BAR SERIES TABLE

MARK	NO. REQ'D.	LENGTH
A404	2 SERIES OF 6	8'-5" TO 14'-7"
A405	2 SERIES OF 6	11'-5" TO 15'-11"

BUNDLE AND TAG EACH SERIES SEPARATELY





8220-00-70

LEGEND

★ ADHESIVE ANCHORS, NO. 5 BAR. EMBEDDED 8" IN CONCRETE.



– LOCATION OF EL. C AND EL. D

			-					
NO.	O. DATE REVISION BY							
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
		STRUCTURE B-60-1						
		DRAWN BY STD CK'D.	CDH					
	AN(DE	CHOR SLAB TAILS - 2	OF 15					

DIVISION 1 - 3	STH 64										
			AREA (SF)			INCREN	IENTAL VOL (CY) (UNAD	CUMULATIVE VOL (CY)			
STATION	REAL STATION	DISTANCE	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUI	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORD
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		ΝΟΤΕ
479+40.00	47940.00	0.00	0.00	0.00	0.00	Û	0	Û	0	0	0
479+50.00	47950.00	10.00	78.20	21.00	0.00	14	7.	0	14	0	10
480+00.00	48000.00	50.00	56.04	15.00	0.00	124	33	Û	138	0	101
480+13.85	48013.85	13.85	34.31	7.50	0.00	23	6	0	161	Ο	118
482+28.20	48228.20	214.35	27.97	7.50	0.65	247	60	3	408	4	301
482+50.00	48250.00	21.80	55.70	15.00	1.42	34	9	1	442	5	325
483+00.00	48300.00	50.00	/4.1/	15.00	0.11	120	28	1	562	6	416
483+05.00	48305.00	5.00	0.00	0.00	0.00	7	1	Ô	569	6	472

NOTES:

(1) CUT: CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL

(2) SALVAGE/UNSUSABLE PAVEMENT MATERIALS: NOT SHOW UP IN CROSS SECTIONS

(3) FILL: DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

(8) MASS ORDINATE: MASS ORDINATE = (CUT - SALVAGE/UNSUABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

PROJECT NO: 8220-00-70 HWY: STH 64 COUNTY: TAYLOR EARTHWORK DATA
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G:\WDOTNW\21030-001 (STH 64)\CIVIL 3D\SHEETSPLAN\090201-XS (STH 64).DWG LAYOUT NAME - XS-01 FILE NAME :

PLOT DATE : 5/30/2023 12:18 PM PLOT BY : KL ENGINEERING PLOT NAME :

PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



^{5/30/2023 12:18} PM



Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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