MAY 2022 WKE ORDER OF SHEETS S S

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COUNTY:

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Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
-Section No.	-4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	_9	

Section No. 9 Cross Sections

TOTAL SHEETS = 60

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C GLENDALE W HAMPTON AVENUE **BRIDGE OVER MILWAUKEE RIVER**

LOCAL STREET MILWAUKEE COUNTY



	STATE PROJECT	PROJECT CONTRACT	
	2545-13-70		
	·····		
		MILWAUKEE COUNTY	
		DEPARTMENT OF TRANSPORTATION	
		1/21/2022 Center Donald	
		(Date) Director of Transportation Engineering	
		1-25-2000 Dana Brown - Manifer	
		(Date) Director of	
		Department of Transportation	
		Kapur Milvake, Wisconsin 53217	
		STATISCONS AND	
		P R E-42700-6 BROOKFELD C:	
		SOONAL ENGINEER	
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		1/19/2022 N.A. B.A.	
		(Date) (Signature)	
		STATE OF WISCONSIN	
		DEPARTMENT OF TRANSPORTATION	
		SURVEYOR KAPUR & ASSOCIATES	
		Designer <u>KAPUR &amp; ASSOCIATES</u>	
		Regional Examiner	
		Regional Supervisor JEFFREY BOHEN, PE	
		APPROVED FOR THE DEPARTMENT	
	INE WISCONSIN COUNTY ZONE NAD 83(07)"	DATE: 1/25/2022 Michal A. Baid	
Ë	) TO THE	(Signature)	
		E	

# GENERAL NOTES

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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.

ALL PRIVATE EXISTING UTILITIES NOT INCLUDED IN THE PLAN ARE TO BE ADJUSTED BY THE UTILITIES CONCERNED. WATER VALVES WILL BE ADJUSTED AND PAID FOR AS A CONTRACT BID ITEM.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

COORDINATE WITH DIGGERS HOTLINE TO FIELD LOCATE UTILITIES. ANY UTILITIES DAMAGED DUE TO CONTRACTOR ACTIVITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE COMPLETE SATISFACTION OF THE UTILITY FACILITY.

DISTURBED AREAS WITHIN RIGHT-OF-WAY SHALL BE RESTORED IN KIND BY DIRECTION OF THE ENGINEER WITH 4" TOPSOIL AND SEED. TOPSOIL SHALL BE APPLIED WITHIN 7 DAYS AFTER GRADING WORK IS COMPLETED. SEED SHALL BE APPLIED WITHIN 7 DAYS AFTER PLACEMENT OF TOPSOIL.

EROSION CONTROL DEVICES WILL BE PLACED IN SEQUENCE WITH CONSTRUCTION ACTIVITIES AS DETERMINED BY THE ENGINEER.

REMOVAL OF EROSION CONTROL DEVICES IS INCIDENTAL TO THE COST OF THEIR RESPECTIVE BID ITEMS.

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

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES WILL BE FILLED WITH COMPACTED GRANULAR BACKFILL UNLESS REGULATIONS REQUIRE OTHERWISE. BACKFILL GRANULAR IS INCIDENTAL TO THE REMOVAL ITEM.

STANDARD . ADT AVE CWT DHV E EA EL ESALS GAL HMA HH LB LF MGAL N PED PI R/L RD S SF STA STH SY T TYP W X Y	ABBRE VIATIONS AVERAGE DAILY TRAFFIC AVENUE HUNDRED WEIGHT DESIGN HOUR VOLUME EAST EACH ELEVATION EQUIVALENT SINGLE AXEL LOADS GALLON(S) HOT MIX ASPHALT INTERSTATE HIGHWAY POUND LINEAR FOOT(FEET) 1000 GALLONS NORTH PEDESTRIAN POINT OF INTERSECTION REFERENCE LINE ROAD SOUTH SQUARE FOOT (FEET) STATION STATE TRUNK HIGHWAY SQUARE YARD (TRUCKS) PERCENT OF TYPICAL WEST EASTING OR EAST GRID COORDINATE NORTHING OR NORTH GRID COORDINATE		Dial M or (800)	<b>TTLINE</b> 242-8511
			Dial Or (800) www.DiggersHot	242-8511 ine.com
PROJECT	NO: 2545-13-70	HWY: W HAMPTON AVE	COUNTY: MILWAUKEE	GENERAL NOTES
ILE NAME : S:	\Milw_Co\C0_Gov\Transportation\200212-Hampt	on Ave. Bridge\DGN\Plansheets\020101_GN.dgn	PLOT DATE : 3/7/2022	PLOT BY : wwolak

### UTILITY/AGENCY CONTACTS

MILWAUKEE COUNTY - UTILITY COORDINATION VERNON SINGLETON 414-257-5947 VERNON.SINGLETON@MILWAUKEECOUNTYWI.GOV 10320 W.WATERTOWN PLANK RD, 2ND FLOOR WAUWATOSA, WI 53226

MILWAUKEE COUNTY HIGHWAY MAINTENANCE DIVISION EDUARDO SANTIAGO 414-257-4563 EDUARDO.SANTIAGO@MILWAUKEECOUNTYWI.GOV 10190 W WATERTOWN PLANK RD WAUWATOSA, WI 53226

MILWAUKEE COUNTY PARKS DEPARTMENT SARAH TOOMSEN 414-257-7389 SARAH.TOOMSEN@MILWAUKEECOUNTYWI.GOV 9480 WATERTOWN PLANK RD WAUWATOSA,WI53226

MILWAUKEE COUNTY STREET LIGHTING BLAKE PRUSAK 414-258-2322 BLAKE.PRUSAK@MILWAUKEECOUNTYWI.GOV 9480 WATERTOWN PLANK RD WAUWATOSA, WI 53226

CITY OF GLENDALE DIRECTOR OF PUBLIC WORKS CHARLIE IMIG 414-228-1746 C.IMIG@GLENDALE-WI.GOV 5909 N MILWAUKEE RIVER PARKWAY GLENDALE, WI 53209

GENERAL NOTES AND UTILITY CONTACTS

PLOT NAME :

OTHER CONTACTS MILWAUKEE COUNTY TRANSIT BUS STOP PLANNER ANDY TILLMAN 414-343-1728 ATILLMAN@MCTS.COM 1942 N.17TH ST. MILWAUKEE, WI 53205	SYSTEM,	2
MILWAUKEE COUNTY TRANSIT COORDINATOR OF STREET SU MELANIE FLYNN 414-343-1764 MFLYNN@MCTS.COM 1942 N.17TH ST. MILWAUKEE, WI53205	SYSTEM, IPERVISION	
MILWAUKEE METROPOLITAN S MICKIKLAPPA-SULLIVAN 414-225-2187 MKLAPPASULLIVAN@MMSD.COM 260 W.SEEBOTH ST. MILWAUKEE, WI53204	EWERAGE DISTRICT	
MILWAUKEE METROPOLITAN S LARRY ANDERSON 414-225-2241 260 W.SEEBOTH ST. MILWAUKEE, WI53204	EWERAGE DISTRICT FIELD CONTACT	
WISCONSIN DEPT.OF NATURAI KRISTINA BETZOLD 414-263-8517 KRISTINA.BETZOLD@WISCONSIN 2300 N DR.MARTIN LUTHER MILWAUKEE, WI 53212	RESOURCES GOV KING DRIVE	
KAPUR & ASSOCIATES KURT FARRENKOPF 414-751-7226 KFARRENKOPF@KAPUR-ASSOC. 7711 N. PORT WASHINGTON RO MILWAUKEE, WI53217	COM AD	
CITY OF MILWAUKEE JEFF POLENSKE 414-286-2400 JPOLEN@MILWAUKEE.GOV 841 N. BROADWAY STREET, RM	701MILWAUKEE, WI 53202	
MILWAUKEE COUNTY TRANSPORTATION SERVICES I ANDREA WEDDLE-HENNING, P.E 414-257-5934 ANDREA.WEDDLE-HENNING@MIL 10320 W.WATERTOWN PLANK WAUWATOSA, WI 53226	DIVISION E. WAUKEECOUNTYWI.GOV RD	
DESIGN GENERAL PROJECT TYPICAL CONSTRL PLAN. DE PAVEMEN CONSTRL TRAFFIC ALIGNMEN	INDEX NOTES AND UTILITY CONTACTS OVERVIEW SECTIONS ICTION DETAILS TAIL/EROSION CONTROL IT MARKING JCTION STAGING CONTROL NT PLAN	
	SHEET	E
PLOT SCALE : NTS	WISDOT/CADDS SHEE	 T 42



FILE NAME : S:\Milw_Co\CO_Gov\Transportation\200212-Hampton Ave. Bridge\DGN\Plansheets\020201_P0.dgn

PLOT DATE : 3/7/2022

PLOT BY : wwolak

PLOT NAME :



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PLOT SCALE : 1:15

WISDOT/CADDS SHEET 42

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FILE NAME : S:\Milw_Co\CO_Gov\Transportation\200212-Hampton Ave. Bridge\DGN\Plansheets\026001_CS.dgn

PLOT DATE : 3/7/2022

PLOT BY : wwolak

PLOT NAME :



FILE NAME : S:\Milw_Co\CO_Gov\Transportation\200212-Hampton Ave. Bridge\DGN\Plansheets\026002_CS.dgn

PLOT DATE : 3/7/2022

PLOT BY : wwolak

### GENERAL NOTES FOR TRAFFIC CONTROL

- 1) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- 2) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- 3) ALL TYPE III BARRICADES SHALL BE 8'WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE A (LOW INTENSITY FLASHING) LIGHTS.
- 4) REMOVE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TRAFFIC CONTROL. REMOVAL IS PAID FOR UNDER THE ITEMS: 'MARKING REMOVAL LINE WATER BLASTING'
- 5) ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
- 6) BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.

### TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADES TYPE 3 1 WITH TWO WARNING LIGHTS TYPE A
- TRAFFIC CONTROL BARRICADES TYPE 3 ¢ WITH TWO WARNING LIGHTS TYPE A AND ATTACHED SIGN
- TRAFFIC CONTROL DRUMS
- SIGN ON PERMANENT SUPPORT 6
- SIGN ON TEMPORARY SUPPORT

(4Y)

(4W)

(8)

PROJECT NO:2545-13-70	HWY:W HAMPTON AVE	COUNTY: MILWAUKEE	TRAFFIC CONTROL DETA	ILS
FILE NAME : S:\Milw_Co\CO_Gov\Transportation\200212-Hampton	Ave. Bridge\DGN\Plansheets\026100_tc.dgn	PLOT DATE : 3/10/2022	PLOT BY : wwolak	PLOT NAME :

➡ TRAFFIC FLOW ARROW

WORK ZONE THIS STAGE

## TEMPORARY PAVEMENT MARKING LEGEND

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE) TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)

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# SHEET

PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

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			E	stimate Of C	antities	
					2545-13-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	204.0110	Removing Asphaltic Surface	SY	211.000	211.000	
0004	204.0150	Removing Curb & Gutter	LF	30.000	30.000	
0006	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 2545-13-70	LS	1.000	1.000	
8000	213.0100	Finishing Roadway (project) 01. 2545-13-70	EACH	1.000	1.000	
0010	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	19.000	19.000	
0012	455.0605	Tack Coat	GAL	10.000	10.000	
0014	465.0105	Asphaltic Surface	TON	77.000	77.000	
0016	502.0100	Concrete Masonry Bridges	CY	1.000	1.000	
0018	502.3205	Pigmented Surface Sealer Reseal	SY	490.000	490.000	
0020	502 3215	Protective Surface Treatment Reseal	SY	588,000	588,000	
0022	505 0600	Bar Steel Reinforcement HS Coated Structures	LB	20,000	20,000	
0024	509 0301	Preparation Decks Type 1	SY	1 000	1 000	
0026	509 0310 S	Sawing Pavement Deck Prenaration Areas	LE	12 000	12 000	
0028	509 1200	Curb Repair	LF	15.000	15.000	
0020	509.1200	Concrete Surface Repair	SE	640.000	640.000	
0030	509.1000	Polymer Overlay	SV SV	1 570 000	1 570 000	
0034	601 0331	Concrete Curb & Cutter 31 Inch	51	30,000	30,000	
0034	610 1000	Mobilization		1 000	1 000	
0030	625.0100		EACH	F8 000	59,000	
0030	625.0100	Topsoli Mulahing	SY	58.000	58.000	
0040	627.0200		ST	58.000	58.000	
0042	628.1104		EACH	56.000	56.000	
0044	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000	
0046	628.1910		EACH	2.000	2.000	
0048	628.7010	Inlet Protection Type B	EACH	1.000	1.000	
0050	628.7020	Inlet Protection Type D	EACH	8.000	8.000	
0052	629.0210	Fertilizer Type B	CWI	0.100	0.100	
0054	630.0140	Seeding Mixture No. 40	LB	1.000	1.000	
0056	630.0500	Seed Water	MGAL	1.000	1.000	
0058	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0060	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0062	642.5201	Field Office Type C	EACH	1.000	1.000	
0064	643.0300	Traffic Control Drums	DAY	2,520.000	2,520.000	
0066	643.0420	Traffic Control Barricades Type III	DAY	510.000	510.000	
0068	643.0705	Traffic Control Warning Lights Type A	DAY	1,020.000	1,020.000	
0070	643.0900	Traffic Control Signs	DAY	1,700.000	1,700.000	
0072	643.1050	Traffic Control Signs PCMS	DAY	20.000	20.000	
0074	643.5000	Traffic Control	EACH	1.000	1.000	
0076	644.1410	Temporary Pedestrian Surface Asphalt	SF	46.000	46.000	
0078	644.1601	Temporary Pedestrian Curb Ramp	DAY	360.000	360.000	
0800	646.1020	Marking Line Epoxy 4-Inch	LF	3,050.000	3,050.000	
0082	646.5220	Marking Symbol Epoxy	EACH	4.000	4.000	
0084	646.7120	Marking Diagonal Epoxy 12-Inch	LF	488.000	488.000	
0086	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	3,050.000	3,050.000	
0088	646.9210	Marking Removal Line Water Blasting Wide	LF	395.000	395.000	
0090	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	4,454.000	4,454.000	
0092	649.0250	Temporary Marking Line Removable Tape 8-Inch	LF	225.000	225.000	
0094	690.0150	Sawing Asphalt	LF	130.000	130.000	
0096	690.0250	Sawing Concrete	LF	6.000	6.000	
0098	SPV.0035	Special 01. Rapid Set Deck Repair	CY	1.000	1.000	
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			E	stimate Of Qu	uantities
					2545-13-70
Line	Item	Item Description	Unit	Total	Qty
0100	SPV.0060	Special 01. Decorative Railing Repair	EACH	1.000	1.000
0102	SPV.0060	Special 02. Repainting Decorative Steel Railing	EACH	9.000	9.000
0104	SPV.0090	Special 01. Expansion Joint Seal System	LF	132.000	132.000
0106	SPV.0165	Special 01. Fiber Wrap Reinforcing Non-Structural	SF	316.000	316.000
0108	SPV.0165	Special 02. PPC Beam Surface Repair	SF	33.000	33.000

# 03/11/2022 08:57:45 Page 2 3

	REMOVALS	FINISHING ROADW
3	204.0110 204.0150 REMOVING REMOVING ASPHALTIC CURB & GUTTER SURFACE	2 F F
	HAMPTON AVE 211 30	
	PROJECT TOTAL 211 30	PROJECT 2545-13-70
	PREPARE FOUNDATION FOR ASPHALTIC PAVING	AGGREGATE ITEN
	211.0100.01 PREPARE FOUNDATION FOR ASPHALTIC PAVING 2545-13-70	305.0120 BASE AGGREGAT DENSE 1 1/4 INCH LOCATION TON
	LOCATION EACH	HAMPTON AVE 19
	PROJECT 2545-13-70 1 PROJECT TOTAL 1	PROJECT TOTAL 19
		NOTE: BASE AGGREGATE DENSE = 2 TON/C
	ASPHALT	CONCRETE CURB & G
	455.0605 465.0105 TACK ASPHALTIC COAT SURFACE	601.0331 CONCRETE CURB & GUTTE
	LOCATION GAL TON REMARKS WEST APPROACH 5 31	31-INCH LOCATION LF
	WEST PATHS 8	WEST APPROACH 15
	EAST APPROACH 5 31 EAST PATHS 7	PROJECT TOTAL 30
	PROJECT TOTAL 10 77	
		ALL ITEMS ARE CATEGOR

PLOTTED DATE: 3/7/2022 10:00 AM

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213.0100.01 FINISHING ROADWAY 2545-13-70 EACH 1

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REMARKS

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S OTHERWISE SPECIF	IED.

	MOBILIZATION	RESTORAT	ION	EROS	SION CONTROL	
3	619.1000 MOBILIZATION LOCATION EACH PROJECT 2545-13-70 1 PROJECT TOTAL 1	625.0100 627.0200 TOPSOIL MULCHING LOCATION SY SY UNDISTRIBUTED 58 58 PROJECT TOTAL 58 58	629.0210       630.0140       630.0500         FERTILIZER       SEEDING       SEED         TYPE B       MIXTURE       WATER         NO. 40       NO       1         CWT       LB       MGAL         0.1       1       1         0.1       1       1	628.1104 628.1905 EROSION MOBILIZATIO BALES EROSION CONTROD LOCATION EACH EACH UNDISTRIBUTED 56 1 PROJECT TOTAL 56 1	6628.1910628.7010628.702DNSMOBILIZATIONSINLETINLETNEMERGENCYPROTECTIONPROTECTLEROSION CONTROLTYPE BTYPE DEACHEACHEACHEACH218218	20 FION D I
	LOCAT WEST APPROA WEST APPROA	TION SIGN CODE SIGN MESSAGE ACH, SOUTH W5-52R BRIDGE HASH MARKS	SIGNING         637.2230           SIGNS TYPE II         SIGNS TYPE II           SIGN SIZE         REFLECTIVE F           IN         X           5         12         X         36         3.0           2         12         X         36         3.0	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH REMARKS 1 4 FT MOUNTING HEIGHT 1 4 FT MOUNTING HEIGHT		
	EAST APPROA EAST APPROA EAST APPROA PROJECT TOTA	CH, NORTH W3-32L BRIDGE HASH MARKS CH, SOUTH W5-52L BRIDGE HASH MARKS CH, NORTH W5-52R BRIDGE HASH MARKS	5     12     X     30     3.0       5     12     X     36     3.0       5     12     X     36     3.0       12.0	4 FT MOONTING HEIGHT 4 FT MOUNTING HEIGHT 4 4		
	FIELD	OFFICE		TRAFFIC CONTR	OL	
	LOCATION PROJECT 2545-13-70 PROJECT TOTAL	642.5201 FIELD OFFICE TYPE C EACH 1 1		TRAI LOCATION PROJECT 2454-13-70 PROJECT TOTAL	643.5000 FFIC CONTROL EACH 1 1	
	PROJECT NUMBER: 2545-13-70	HWY: W HAMPTON AVE	COUNTY: MILWAUKEE	ALL ITEMS ARE CATEGORY MISCELLANEOUS QUANTITIES	<b>0010</b> UNLESS OTHERWISE SPECIFIE	D.

FILE NAME:S:\Milw_Co\CO_Gov\Transportation\200212-Hampton Ave. Bridge\Quantities\2545-13-70_MQ.pptx

ORIGINATOR: NICHOLAS BOBINSKI ORIG. DATE: SEPTEMBER 30, 2021

PLOTTED DATE: 3/7/2022 10:03 AM

TRAFFIC CONTROL	
643.0300       643.0420       643.0705       643.0900       643.1050       644.1410       644.1601       649.0150         TRAFFIC       TRAFFIC       TEMPORARY       TEMPORAR	649.0250 TEMPORARY IARKING LINE REMOVABLE
STAGE     DRUMS     BARRICADES     LIGHTS     SIGNS     SIGNS     ASPHALT     TAPE 4-INCH     TAPE 4-INCH       DURATION     TYPE III     TYPE A     PCMS     WHITE YELLOW	TAPE 8-INCH WHITE
STAGE DAYS EACH** DAY EACH** DAY EACH** DAY EACH** DAY EACH** DAY SF EACH** DAY LF LF	LF NOTES
1       60       21       1,260       4       240       8       480       16       960         46       4       240       1,494       1,475         2       60       21       1,260       3       180       6       360       11       660         2       120           3       5         18       90       36       180       16       80       2       20	150 MAINTAIN MARKINGS FROM STAGE 1 
UNDISTRIBUTED                    747         738	75
PROJECT TOTAL         2,520         510         1,020         1,700         20         46         360         4,454	225
PAVEMENT MARKINGS 646.1020 646.5220 646.7120 646.9010 646.9210 MARKING LINE MARKING MARKING DIAGONAL MARKING LINE EPOXY 4-INCH SYMBOL EPOXY 12-INCH REMOVAL WATER REMOVAL WATER (WHITE) (YELLOW) EPOXY (YELLOW) BLASTING 4-INCH BLASTING WIDE WEST APPPOACH, ROADW	SAWING 690.0150 690.0250 SAWING ASPHALT SAWING CONCRETE LF LF LF LF AY 45 3
LOCATIONLFLFEACHLFLFLFHAMPTON AVE1,5251,52544883,050395EAST APPROACH, ROADWA	AY 45 3
PROJECT TOTAL     3,050     4     488     3,050     395     EAST APPROACH, PATH       PROJECT TOTAL     3,050     4     488     3,050     395     EAST APPROACH, PATH       PROJECT TOTAL     4     488     3,050     395     EAST APPROACH, PATH       PROJECT TOTAL     4     488     3,050     395     EAST APPROACH, PATH       PROJECT TOTAL     4     488     3,050     395     EAST APPROACH, PATH       PROJECT TOTAL     4     488     3,050     395     EAST APPROACH, PATH       PROJECT TOTAL     4     488     3,050     395     EAST APPROACH, PATH       PROJECT TOTAL     4     488     3,050     395     EAST APPROACH, PATH       PROJECT TOTAL     4     488     3,050     395     EAST APPROACH, PATH	18 130 6 Y <b>0010</b> UNLESS OTHERWISE SPECIFIED.
PROJECT NUMBER: 2545-13-70 HWY: W HAMPTON AVE COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES	SHEET NO:

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PLOT DATE : 3/7/2022

PLOT BY : wwolak

PLOT NAME :

# Standard Detail Drawing List

- 08D16-11 08E08-03 CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
  - TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
- INLET PROTECTION TYPE A, B, C AND D
- BARRICADES AND SIGNS FOR MAINLINE CLOSURES
- BARRICADES AND SIGNS FOR VARIOUS CLOSURES
- TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
- 08E08-03 08E10-02 15C02-08A 15C02-08B 15C05-05 15C07-15E 15C08-20A PAVEMENT MARKING FOR BIKE LANES LONGITUDINAL MARKING (MAINLINE)
- 15C08-20A 15C11-09B 15C18-05A 15D30-06A 15D30-06B
  - CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
  - MEDIAN ISLAND MARKING PAVEMENT MARKINGS
  - TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
  - TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
- 15D30-06C











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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.





TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

**SDD 15C05 - 05** 



# SDD 15C7-e Pavement Marking For Bike Lanes











**TEMPORARY PAVEMENT MARKING** 



**TWO WAY TRAFFIC** 



**ONE WAY TRAFFIC** 





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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

DIRECTION OF TRAFFIC

' BLACK CONTRAST		
_		
- ½" MAX. GROOVE ' BLACK CONTRAST	JOINT LINE	

# LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Matthew Rauch STATEWIDE SIGNING AND MARKING ENGINEER

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SDD

# **GENERAL NOTES**

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





**TYPE II BARRICADE** 

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



# **TYPE III BARRICADE**

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

★ IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

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

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# **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES** AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2021 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER



# **GENERAL NOTES**

DIAGONALS ARE OPTIONAL WHEN PAINED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

6

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**SDD15C18** 

# MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2021 DATE

/S/ Matthew R. Rauch STATE SIGNING AND MARKING ENGINEER

FHWA











**SDD 15D30** 06c

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November 2019 DATE

WORK ZONE ENGINEER

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PROJECT NO:	HWY:	COUNTY:			
			BLAT BATE AT MAN AND A C	A DLOT DY O	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>A4-3.22</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
<i>+or</i> State Traffic Engineer
DATE <u>4/1/202</u> 0 plate no. <u>44-8.9</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	6	WOO	DF	POST	
		MOD	IF	FICA	ΤI	ONS	
	WISC	onsin l	DEF	PT OF T	RANS	PORT AT IO	N
	APPROVE	D		nester .	Γź	Spang	
			tor	State Tr	affic E	ngineer	
	DATE 3	/27/9	<u>17</u>	PLA	TE N	D. <u>44-11</u>	2
				SHEET	N0:		E
OT SCALE	E:6.20 <b>7</b> 33	8:1.0000	000	WISD	от/с	ADDS SHE	ET 42



# NOTES

 Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
 Color: Background - White Message - Black
 Message Series - C
 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.
 Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

Z	Area sq. ft.	STA		) SIGN	
			R9 -	9	
	2.0	WICCONCIN			
	2.0	ADDDOVED	DEFIOR		//v
	3.75	APPROVED Z	Natther	R Rain	6
			for State Tr	affic Engineer	
		DATE <u>8/11/1</u>	<u>6</u> PL	ATE NO	9.6
			SHEET	NO:	E

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											R9	-10													
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S 2	24	12	1 1/8	3/8	3/8	2	10 1/8	1/2	1 1/2	8 1/4	9 1/4	4	1 1/2	3 3/4	3	1 1/2		4 3/4	1	2 3/4	1/8				F
M 2	24	12	1 1/8	3/8	3/8	2	10 1/8	1/2	1 1/2	8 1/4	9 1/4	4	1 1/2	3 3/4	3	1 1/2		4 3/4	1	2 3/4	1/8				F
3 3( 1	30	15	1 1/8	3⁄8	1/2	2 1/2	12 3/4	1/2	2	10 1/4	12 3/8	5	2	4 5/8	3 3/4	2		5 7⁄8	1 1/4	3 5/8	1/4				
5																									
'ROJE(	ECT N	NO:					н	WY:					COU	INTY:											
_E NAME	E : C:\C/	CAEFiles	s\Project	ts\tr_std	iplate\R9	10.dgn										PLOT DA	TE : 07-	APRIL-202	0	PLOT	F BY : dr	otc4c		PLOT N/	AME



- - 2. Color:

  - 3. Message Series C

    - paths and trails.

# NOTES

1. Sign is Type II - Type H Reflective Background - White Message – Black 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. Use Size 2 for sidewalks. Use Size 3 for



Z	Area sq. ft.		STAND.	ARD SI	GN	
			RS	-10		
	2.0			± 0		
	2.0	W/S	CONSIN DEPT	OF TRANSPO	ORTATION	
	3.125	APPROV	IED Mat	the P	Raul	/
			Fo	State Traffic Engir	neer	<del>,</del>
		DATE	4/7/2020	PLATE NO.	R9-10.	7
			SHE	EET NO:		Ε

							К						} }	<					G (								)  L	 
										R11	-2																	
7														-0-		R11	- 2 T		_0_		•						] _ _ N	 
	SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	м	N	0	P	Q	R	S	Т	U	l v	w	x	T Y T	Z	
	1																											
	2S	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 ⁵ ⁄8												10
	2M	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 ⁵ ⁄8												10
	3	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10
	4	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5⁄8												10
	5	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10
	PRO	JECT	NO:						HWY:					С	OUNT	Y:												
	FILE N	NAME : C	:\Users`	VPROJECTS	\tr_stdp	late∖R11	2.dgn							I			PLC	DT DATE	: 29-MAR	2021 8:1	.5	PLOT	BY : doto	40		PLOT NAME	:	

# G Ā $D \rightarrow \checkmark$ F E → V ≻≺ . 1 ΗB

С.

- 2. Color:
- 3. Message Series D



	For sta	ite Traffic Engir	heer	
DATE <u>3/</u>	29/2021	PLATE NO.	<u>R11-2.1</u>	1
	SHEET	NO:		Ε

# NOTES

- 2. Color:

Background - White Message - Black

- 3. Message Series C



R11-4

SIZE	Α	В	С	D	E	F	G	н	I	J	к	L	м	N	0	P	0	R	S	Т	U	v	W	X	Y
1																									ĺ
2S	60	30	1 3/8	1/2	5%	6	5	4	2 1/2	16 1/8		1/8	23 3/8	3 1/4	3	16 3⁄4	5 1⁄4	2 1/4	24 1/4						
2M	60	30	1 3/8	1/2	5%8	6	5	4	2 1/2	16 1/8		1/8	23 3/8	3 1/4	3	16 3⁄4	5 1⁄4	2 1/4	24 1/4						
3																									
4																									
5																									
PRO	JECT	NO:					н	WY:					COU	NTY:											
FILE N	AME : C:	\Users\P	ROJECTS	tr_stdplc	te\R114.	DGN										PLOT DA	ATE : 01-	APR-2011	14:11	PLO	T BY : ma	scj9h		PLOT N	AME :

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.

		4500	
STANDARD SIGN		sq. ft.	Z
R11 - 4		12.5	
WISCONSIN DEPT OF TRANSPORTATION	WISCON	12.5	
APPROVED Matther & Rauch	APPROVED		
DATE 4/1/11 PLATE NO. R11-4.3	DATE 4/1		
SHEET NO: E			
39:1.000000 WISDOT/CADDS SHEET 4	OT SCALE : 9.931739:1.00000	PL	



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

7

PLOT DATE : 29-MAY-2012 13:03

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

														$\begin{array}{c} \bullet \\ F \\ F \\ \bullet \\ F$				V W20-1H						
						W20	-1A									•	- I ——	₩20-1	r IS B	◀─── ⊺ -				_
size 1 2S 2M 3	A     B       36	C 1 5/8 2 1/4 2 1/4 2 1/4	D 5/8 3/4 3/4 3/4 3/4	E 31/4 1 1 1	F 5 8 8 8	$ \begin{array}{c c} G \\ 2 & 5/8 \\ 3 & 3/4 \\ 3 & 3/4 \\ 3 & 3/4 \\ 3 & 3/4 \end{array} $	H 3 1/4 10 5 1/8 19 5 1/8 19 5 1/8 19	I D 1/8 5 3/8 5 3/8 5 3/8 5 3/8	J 7 11 ¹ /8 11 ¹ /8 11 ¹ /8	к 7 5/8 12 1/8 12 1/8 12 1/8	L 8 7/8 14 3/8 14 3/8 14 3/8	M 1 ¹ /8 1 ⁵ /8 1 ⁵ /8 1 ⁵ /8	N 4 1/2 6 7/8 6 7/8 6 7/8	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	P 9 13 7 13 7 13 7	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	R 2 1/2 3 7/8 3 7/8 3 7/8 3 7/8	S 2 1/4 3 3 3 3	T 5 5/8 8 5/8 8 5/8 8 5/8	U 9 13 ³ ⁄ ₄ 13 ³ ⁄ ₄ 13 ³ ⁄ ₄	v 1 ³ / ₈ 2 ¹ / ₈ 2 ¹ / ₈ 2 ¹ / ₈	W           8           11         7/8           11         7/8           11         7/8		Y 10 3/4 16 3/8 16 3/8 16 3/8
4	48	2 1/4	5/4	1	8	3 3/4	5 1/8 11	5 3/4	11 ¹ /8	12 ¹ / ₈	14 3/4	1 1 1/2	6 ¼	$15\frac{3}{8}$	13 7	'al 4 ³ /a	3 %	3	8 1/8	13 3/4	$2 \frac{1}{8}$	11 7/2	2 3/1	16 3/2

3 3/4 5 1/8 15 3/8 11 1/8 12 1/8 14 3/8 1 5/8 6 7/8 5 3/8 13 7/8 4 3/8 3 7/8

PROJECT	NO:
---------	-----

48

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FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN

2 1/4

3/4

1

8

PLOT BY : dotc4c

3

8 5/8 13 3/4 2 1/8



WISDOT/CADDS SHEET 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	Ζ	Areo sq. ft.	
4	1 7	¥4	9.0	STANDARD STON
3	2	⅔	16.0	STANDARD STON
3	2	3⁄8	16.0	W2O-3A, B, C, D, F & G
5	2	⅔	16.0	WISCONSIN DEPT OF TRANSPORTATION
3	2	⅔	16.0	APPROVED Matther R Rauch
;	2	⅔	16.0	For State Traffic Engineer DATE 3/18/11 PLATE NO. W20-3.7
				SHEET NO: E
			PLOT S	CALE : 9.931739:1.000000 WISDOT/CADDS SHEET 42



# NOTES

- 2. Color:
  - Background Orange Message – Black

		-									-																
SIZE	А	В	С	D	E	F	G	н	I	J	К	L	М	N	0	P	۵	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft
1	36		1 5/8	5⁄8	3⁄4	14 1/2		11 7⁄8	4 ¹ /4	7 5/8																	9.0
25	48		2 1/4	3⁄4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.C
2M	48		2 1/4	3⁄4	1	19 3/8		15 3⁄4	5 5/8	10 1/4																	16.C
3	48		2 1/4	3⁄4	1	19 3/8		15 3⁄4	5 %	10 1/4																	16.0
4	48		2 1/4	3⁄4	1	19 3/8		15 3⁄4	5 5/8	10 1/4																	16.0
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PRC	JECT	NO:						HWY:					(	COUNT	Y:												
FILE	IAME : C	:\CAEFi.	les\Pro je	cts\tr_s	tdplate\	W0112.DGN	1						1			Р	LOT DATE	: 08-AP	RIL-2020	1	PLOT	BY : do	tc4c		PLOT N	NAME :	

1. Sign is Type II - Type F Reflective

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.

	STANDARD SIGN
·	W011-2
)	WISCONSIN DEPT OF TRANSPORTATION
)	APPROVED Matther R Rauch
1	
	DATE <u>4/8/2020</u> PLATE NO. <u>WO11-2.1</u>
	SHEET NO: E

# NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color: Background - Orange Message – Black
- 4. W016-7R is the same as W016-L the vertical centerline.





SIZE	А	В	С	D	E	F	G	н	I	J	K	L	M	N	0	Р	Q	R	S	Т	U	V	W	Х	Y
1	30	18	1 1/8	3⁄8	1/2	4 ¹ / ₂	30°	8 ¹ / ₂	6	5⁄8	10 1/4														
2S	48	24	1 3/8	1/2	5⁄8	6	30°	11 1/2	8	1	14														
2M	48	24	1 3/8	1/2	5⁄8	6	30°	11 1/2	8	1	14														
3	48	24	1 3/8	1/2	5⁄8	6	30°	11 1/2	8	1	14														
4	48	24	1 3/8	1/2	5⁄8	6	30°	11 1/2	8	1	14														
5	48	24	1 3/8	1/2	5⁄8	6	30°	11 1/2	8	1	14														
PRO	PROJECT NO:													TY:											

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W0167.dgn

3. Corners may be square or rounded but corners shall be rounded when base material is metal. except the arrow is reversed along

Z	Area sq. ft. 3.75	STANDARD SIGN W016-7
	8.0	WISCONSIN DEPT OF TRANSPORTATION
	8.0	$\Delta PPROVED = \sqrt{2} \sqrt{2} \sqrt{2}$
	8.0	Matther & Rauch
	8.0	<i>for</i> State Traffic Engineer
	8.0	DATE <u>3/16/2021</u> PLATE NO. <u>W016-7.2</u>
		SHEET NO: E



STATE	PROJECT	NUMBER

2545-13-70

# DESIGN DATA

## LIVE LOAD:

DESIGN LOADING: HS20 INVENTORY RATING: HS10 OPERATING RATING: HS17 WISCONSIN STANDARD PERMIT (WIS-SPV): 210 KIPS

### MATERIAL PROPERTIES:

CONCRETE MASONRY ..... ...f'c= 4,000 PSI

# LEGEND

→ DIRECTION OF TRAFFIC

 $\bigcirc$  Taken from deck replacement plans DATED JANUARY 3.1997

(X) EXISTING WINGWALL NOTATION

TWO WAY BIKE LANE AND SIDEWALK

# LIST OF DRAWINGS

- 1. GENERAL PLAN & ELEVATION
- 2. TYPICAL SECTION 3. QUANTITIES & GENERAL NOTES
- 4. GIRDER REPAIR PLAN
- 5. GIRDER REPAIR DETAILS
- 6. REHABILITATION DETAILS
- 7. TUBULAR RAILING DETAILS 8. DECK REHABILITATION AREAS (1 OF 2)
- 9. DECK REHABILITATION AREAS (2 OF 2)

# TRAFFIC DATA HAMPTON AVENUE

2019 ADT = 14,700 RDS = 30 MPH

NO. DATE

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE: AARON BONK (608) 261-0261 CONSULTANT: MOHAMMED ZAGLOUL (414) 751-7200

REVISION ORIGINAL PLANS PREPARED BY ΒY





# TYPICAL SECTION

(LOOKING EAST) (DIMENSIONS & CROSS SLOPES BASED ON ORIGINAL STRUCTURE PLANS)



# TEMPERATURE TABLE

TEMP.(°F)	JOINT OPENING
5	21/2"
15	2 ³ ⁄8"
25	21/4"
35	2  /8"
45	2"
55	2''
65	17⁄8''
75	13⁄4''
85	15⁄8''

# LEGEND:

- A01 DAMAGED TUBULAR RAILING TO BID ITEM "DECORATIVE RAILING SEE GENERAL PLAN & ELEVATI
- A02 1/4" MIN. REMOVAL OF EXIST. DEC
- A03 CONTRACTOR TO SELECT APPRO EXPANSION JOINT SEAL SYSTEM SELECTED PRODUCTS SPECIFICA SIZE SHALL BE APPROVED BY 1
- A04 JOINT OPENING DIMENSION OF 15 FROM THE EXISTING DECK REPL DATED JANUARY 3, 1997. CONTI JOINT OPENING SIZE IN THE FIE AND INSTALLING EXPANSION JOI

) BE REPAIRED PER							8
TION SHEET FOR LOCATION.	NO.	DATE		REVISION		BY	
ECK AT END OF TRANSITION.		1	STATE DEPARTMENT	OF WISCONS	SIN ORTATION		
M BASED ON THE ATIONS. JOINT MATERIAL		S	STRUCTI	JRE P-4	40-750		
THE ENGINEER.				DRAWN BY A	JA PLANS.	MHZ	
1¾" WAS TAKEN 'LACEMENT PLAN FRACTOR TO CONFIRM ELD BEFORE SELECTING DINT SEAL SYSTEM.		TYPICAL SECTION					
	PLO	T SCAL	E : 1:8				



# GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

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

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

DIMENSIONS SHOWN ARE BASED ON THE DECK REPLACEMENT PLANS DATED JANUARY 3, 1997.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2007).

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MILWAUKEE COUNTY ZONE NAD 83 (2007).

AT "CURB REPAIR" EXPOSE EXISTING REINFORECEMENT A MINIMUM OF  $1\frac{1}{2}$ " CLEAR.

SURFACE PREPARATION IS INCLUDED IN THE BID ITEMS "PIGMENTED SURFACE SEALER RESEAL" & "PROTECTIVE SURFACE TREATMENT RESEAL".

"PROTECTIVE SURFACE TREATMENT RESEAL" SHALL BE APPLIED TO THE EXPOSED HORIZONTAL AND VERTICAL SURFACES OF THE SIDEWALKS ON THE BRIDGE AND APPROACH SLABS.

APPLY "PIGMENTED SURFACE SEALER RESEAL" TO ALL EXPOSED HORIZONTAL AND VERTICAL FACES OF THE INTERIOR PARAPET ON THE BRIDGE AND APPROACH SLABS. APPLY "PIGMENTED SURFACE SEALER RESEAL" TO THE TOP AND INSIDE FACES OF THE EXTERIOR PARAPETS ON THE BRIDGE AND WINGWALLS.

REMOVING, CLEANING, PAINTING AND REINSTALLING THE EXISTING TUBULAR RAILING IS TO BE PAID FOR UNDER BID ITEM "REPAINTING DECORATIVE STEEL RAILING".

BEVEL EXPOSED EDGES OF CONCRETE TO MATCH EXISTING BEVELS UNLESS OTHERWISE NOTED.

REPLACE THE EXISITNG STRIP SEAL GLANDS AS PER BID ITEM "EXPANSION JOINT SEAL SYSTEM" AFTER THE "POLYMER OVERLAY" IS COMPLETE.

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

ANY DAMAGE TO THE EXISTING STRIP SEAL EXPANSION JOINT STEEL EXTRUSION DURING DECK PREPARATION SHALL BE REPAIRED AT THE DIRECTON OF THE ENGINEER AND SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "EXPANSION JOINT SEAL SYSTEM".

EXISTING STEEL RAILING SHALL BE PAINTED TO MATCH THE EXISTING LIGHT POLE, PAINT COLOR SHALL BE SHERWIN WILLIAMS F78XXG27314387 PARK GREEN. CONTRACTOR TO OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO APPLICATION.

CONCRETE SURFACE REPAIRS SHALL BE DEFINED BY A  $\frac{1}{2}$ " SAWCUT. REMOVE ANY/ALL LOOSE CONCRETE UNDER BID ITEM "CONCRETE SURFACE REPAIR". SURFACES SHALL BE BLAST CLEANED AND ANY EXPOSED STEEL SHALL BE BRUSHED CLEANED PRIOR TO THE CONCRETE SURFACE REPAIRS BEING COMPLETED. REPAIR AREAS SHALL BE VERIFIED AND APPROVED BY THE FIELD ENGINEER.

PARTIAL REPAIR OF THE PEDESTRIAN RAILING IS TO BE PAID FOR UNDER BID ITEM "DECORATIVE RAILING REPAIR".

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAW CUT.

PREPARATION DECKS TYPE 1 AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION REPAIRS SHALL BE FILLED WITH "RAPID SET DECK REPAIR".

SHOT BLASTING, DECK SURFACE PREPARATIONS, AND TRANSITIONAL AREAS ARE INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

THE POLYMER OVERLAY AND OTHER PROPOSED WORK ITEMS SHALL CONFORM TO TRAFFIC CONTROL RESTRICTIONS NOTED ELSEWHERE IN THE CONTRACT DOCUMENTS. THE ENTIRE POLYMER OVERLAY AND DECK REPAIRS ARE TO BE COMPLETED DURING NIGHT TIME CLOSURES.

REPLACING THE EXISTING MILWAUKEE COUNTY CONDUIT AND TUBULAR RAILING ANCHOR ASSEMBLY AT THE PARAPET REPAIR LOCATION SHALL BE INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

CRACK REPAIRS ARE INCLUDED IN THE BID ITEM "CONCRETE SURFACE REPAIR".

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER, OUANTITIES SHOWN FOR THESE BID ITEMS ARE APPROXIMATE: -CURB REPAIR -CONCRETE SURFACE REPAIR -RAPID SET DECK REPAIR -FIBER WRAP REINFORCING NON-STRUCTURAL -PPC BEAM SURFACE REPAIR

# TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	WEST ABUTMENT	PIER 1	PIER 2	PIER 3	EAST ABUTMENT	SUPER.	TOTAL
502.0100	CONCRETE MASONRY BRIDGES	СҮ	-	-	-	-	1	-	1
502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	31	-	-	-	31	428	490
502,3215	PROTECTIVE SURFACE TREATMENT RESEAL	SY	41	-	-	-	41	506	588
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	-	-	-	-	20	-	20
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	-	-	-	1	1
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	-	-	-	-	-	12	12
509.1200	CURB REPAIR	LF	-	-	-	-	-	15	15
509.1500	CONCRETE SURFACE REPAIR	SF	180	70	70	120	180	20	640
509.5100.S	POLYMER OVERLAY	SY	-	-	-	-	-	1,579	1,579
SPV.0035.01	RAPID SET DECK REPAIR	CY	-	-	-	-	-	1	1
SPV.0060.01	DECORATIVE RAILING REPAIR	EACH	-	-	-	-	-	1	1
SPV.0060.02	REPAINTING DECORATIVE STEEL RAILING	EACH	3	-	-	-	3	3	9
SPV.0090.01	EXPANSION JOINT SEAL SYSTEM	LF	-	-	-	-	-	132	132
SPV.0165.01	FIBER WRAP REINFORCING NON-STRUCTURAL	SF	-	-	-	-	-	316	316
SPV.0165.02	PPC BEAM SURFACE REPAIR	SF	-	-	-	-	-	33	33

ALL ITEMS ARE CATEGORY 0020

# BENCH MARK DATA

NO.	DESCRIPTION	NORTHING
SEC NO. 822159	SECTION CORNER ON HAMPTON AVENUE WEST OF THE BRIDGE	323496.31
SEC NO. 722003	SECTION CORNER ON HAMPTON AVENUE WEST OF THE BRIDGE	323495.98
BM 301	BENCH MARK EAST OF HAMPTON AVENUE BRIDGE. CHISELED SQUARE ON CURB HEAD N.SIDE OF HAMPTON	323387.47

STATE PROJECT NUMBER

2545-13-70

EASTING	ELEVATION
601370.32	630.95
601398.24	630.88
602154.17	631.57

N0.	DATE	F	REVISION				BY	F
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
STRUCTURE P-40-750								
			DRAWN BY	S	к	PLANS CK'D.	MHZ	
QUANTITIES & SHEET 3 GENERAL NOTES					OF 9			
PL 0	T SCAL	F:1:8						2





STATE PROJECT NUMBER

# 2545-13-70

# NOTE

FOR "PPC BEAM SURFACE REPAIR" & "FIBER WRAP REINFORCING NON-STRUCTURAL" LOCATIONS, SEE SHEET 4.

NO.	DATE	F	REVISION			B١	(	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
STRUCTURE P-40-750								
DRAWN PLANS BY AJA CK'D.				МНZ	2			
GIRDER REPAIR			SHE	ET 5	OF	9		
	DETAILS							



FILE NAME : S:\Milw_Co\CO_Gov\Transportation\200212-Hampton Ave. Bridge\Structures\cds\P750_080801_rp.dgn













FIELD CLIP AS REQUIRED V/6" THICK POST SHIM DETAIL STATE PROJECT NUMBER

# 2545-13-70

<u>LEGEND</u>

- (1) TS 4" X 4" X  $^{1\prime}\!\!\!\!/_4$ " structural tubing. Place post normal to grade line.
- (2) PLATE 1/2" X 8" X 8" WITH 3/4" X 11/4" SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD NO. 1 TO NO. 2 AS SHOWN. FINISH ALL TOP EDGES WITH A 3/6" RADIUS.
- (3) A325 HEX BOLTS (STAINLESS STEEL) ¹/₂" DIA. X 8" LONG WITH A325 NUT AND WASHER. 4 REQUIRED PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2 CHAMFER TOP OF BOLTS BEFORE THREADING.
- (5) TS 5" X 2" X  $^{1}\!\!/\!\!/ 4$ " Structural tubing as shown on details, conforming to astm designation ason or ason grade B.
- (6) 1" DIA. X 1/8" THICK SEAMLESS STEEL TUBING.
- (7) TS 3" X 2" X ¹∕4" STRUCTURAL TUBING AS SHOWN ON THE DETAILS, CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.
- 8 SLEEVE FABRICATED FROM 1/4" PLATE, PROVIDE "SLIDING FIT".
- (9) 1/4" PLATE OR MODIFIED STRUCTURAL SHAPE TO FIT FREE INTO 1.0. OF NO. 5 PROVIDE 1/2" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS, PROVIDE 3/8" DIA. X 1/2" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.



# SECTION THRU RAILING

AT 1/3 PTS

# NOTES

TUBULAR RAILING MATERIAL, ANCHORS, SIZING, WELDING AND DIMENSIONS ARE TAKEN FROM THE EXISTING DECK REPLACEMENT PLANS DATED JANUARY 3, 1997.

N0.	DATE	F	EVISION				В	Y	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION									
STRUCTURE P-40-750									
DRAWN BY AJA CK'D.					MH	Z			
TUBURAL RAILING DETAILS			SHEE	ET 7	OF	9			

REHABILITATION AREAS SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY. THE FIELD ENGINEER WILL SOUND THE DECK AND MARK AREAS IN THE FIELD ENGINEER WILL SUGNOT DECK AND MARK AREAS IN THE FIELD. THE ESTIMATED QUANITIES FOR THE DECK PREPARATION AND DECK REPAIR BID ITEMS ARE ADAPTED FROM THE ABOVE INFRARED THERMOGRAPHY SURVEY RESULTS.

NOTE: DELAMINATIONS OBSERVED IN ----This Area of Approach span (Rehab Area is not included in Rehab Quantities).

APPROACH SPAN

€ BRG. W. ABUT.

 $\Diamond$ 

STRUCTURE NO. P-40-750 REHABILITATION AREA SUMMARY ROADWAY SDEWALKS LEGEND UNIT QUANT. % QUANT. DELAMINATION  $\bigcirc$ ITEM % yd² 1580.6 yd² 0 yd² 1.1 yd² 0 yd² 0 TOTAL AREA SHADE/DEBRIS SPALL 483.7 DEBOND PREPARATION, DECKS, TYPE 1 PREPARATION, DECKS, TYPE 2 FULL DEPTH DECK REPAIR 0.1 1.1 0. PCC PATCH SHADE/DEBRIS SUBSURFACE PATCH

SURFACE TYPE: CONCRETE - NO OVERLAY INFRARED INSPECTION DATE: 2/23/21 & 3/9/21



293 - 10 BACK TO BACK ABUTS.

PLAN

PROPOSED REHABILITATION AREAS

8

NOTE

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# NOTE

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# Wisconsin Department of Transportation

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