MARCH 2023 GRE

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ORDER OF SHEETS

	Section No.
S	Section No.
N EC	Section No.
	Section No.
<u></u>	Section No.
	Section No.
•	Section No.
4	Section No.
0	Section No.
$\mathbf{\omega}$	Section No.
<b>U</b>	Section No.
-60-	TOTAL SHEET

Section No.	1	Title
Section No.	2	Typical Sections and Deta
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.		Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 158

DESIGN DESIGNATION 4085-60-00 AADT 2024 = 5730 A.A.D.T. 2044 = 6620 = 936 D.H.V. D.D. = 59/41 = 7.1% Τ. DESIGN SPEED = 55 MPH ESALS = 980,000

COUNTY:

CONVENTIONAL STUBOLS	
PLAN CORPORATE LIMITS	<u>'//////</u>
PROPERTY LINE	
LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY	L
PROPOSED OR NEW R/W LINE	
REFERENCE LINE	300'EB'
EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	-CAUTION-
MARSH AREA	
WOODED OR SHRUB AREA	<i>{</i>

PROFILE

GRADE LINE

SPECIAL DITCH

UTILITIES

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

STORM SEWER

TELEPHONE

WATER

ELECTRIC

GAS

GRADE ELEVATION

CULVERT (Profile View)

ORIGINAL GROUND

MARSH OR ROCK PROFILE

LABEL

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(To be noted as such)

**STH 32** 



FILE NAME : N:\PDS\C3D\40856000\SHEETSPLAN\010101-TI.DWG

## GENERAL NOTES

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

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

EROSION CONTROL FEATURES ARE AT SUGGESTED LOCATIONS AND THE EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER.

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES

PROJECT OVERVIEW

TYPICAL SECTIONS

CONSTRUCTION DETAILS

INTERSECTION DETAILS

PLAN DETAILS

EROSION CONTROL

DETOUR SIGN DETAILS

## DNR LIAISON

MATT SCHAEVE DNR NORTHEAST REGIONAL HEADQUARTERS 2984 SHAWANO AVE. GREEN BAY, WI 54313 (920) 366-1544 matthew.schaeve@wisconsin.gov

### COUNTY HIGHWAY COMMISSIONER

BRIAN P. GLAESER 241 E CHESTNUT ST CHILTON, WI 53014-1554 (920) 849-1463 glaeser.brian@co.calumet.wi.us

### NE REGION SURVEY COORDINATOR

CORMAC MCINNIS, RLS 944 VANDERPERREN WAY GREEN BAY, WI 54304 (920) 492-5638 cormac.mcinnis@dot.wi.gov

### NE REGION DESIGN PROJECT MANAGER

KRISTEN E. BERG. P.E. 944 VANDERPERREN WAY GREEN BAY, WI 54304 (920) 492-0139 kristen.berg@dot.wi.gov

TODD HILDEBRANDT CHARTER COMMUNICATIONS -COMMUNICATION LINE 3520 E DESTINATION DR APPLETON, WI 54915 (920) 794-4946 Todd.hildebrandt@charter.com

KRIS AUGUST (PRIMARY CONTACT) CITY OF KIEL - ELECTRICITY 621 SIXTH ST KIEL, WI 53042 (920) 894-2909 kris.august@kielwi.gov

KRIS AUGUST (PRIMARY CONTACT) CITY OF KIEL - SEWER 621 SIXTH ST Kiel, WI 53042 (920) 894-2909 kris.august@kielwi.gov

KRIS AUGUST (PRIMARY CONTACT) CITY OF KIEL - WATER 621 SIXTH ST KIEL, WI 53042 (920) 894-2909 kris.august@kielwi.gov

CAL KLADE FRONTIER COMMUNICATIONS OF WI LLC - COMMUNICATION LINE 521 4<sup>th</sup> ST WAUSAU, WI 54401 (715) 573-2110 Calvin.klade@ftr.com

RUNOFF COEFFICIENT TABL	E
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						HYDROLOGIC S	OIL GROUP					
			A		В			С		D		
	SLOP	E RANGE	(PERCENT)	S	LOPE RANG	GE (PERCENT)	SLO	OPE RANG	GE (PERCENT)	SLOF	e RANGE	(PERCENT)
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:		1			•	1	1			1		1
ASPHALT						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS .7585												
ROOFS						.7595						
GRAVEL ROADS, SHO	OULDERS					.4060						

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.80 ACRES

PROJECT NO: 4085-60-71	HWY: STH 32	COUNTY: CALUMET	GENERAL NOTES

FILE NAME : N:\PDS\C3D\40856000\SHEETSPLAN\020101-GN.DWG LAYOUT NAME - 020101-gn

PLOT DATE : 1/4/2023 7:27 AM

## UTILITIES CONTACTS

ELECTRIC OPERATIONS SUPERVISOR NEW HOLSTEIN PUBLIC UTILITIES -ELECTRICITY 2110 WASHINGTON ST NEW HOLSTEIN, WI 53061 (920) 898-5776 Nh\_electric@wppienergy.org

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WATER/WASTEWATER SUPERVISOR NEW HOLSTEIN PUBLIC UTILITIES - SEWER 2110 WASHINGTON ST NEW HOLSTEIN, WI 53061 (920) 898-5776 Nh\_treatment@wppienergy.org

WATER/WASTEWATER SUPERVISOR NEW HOLSTEIN PUBLIC UTILITIES -WATER 2110 WASHINGTON ST NEW HOLSTEIN, WI 53061 (920) 898-5776 Nh\_water@wppienergy.org

NICK WILBERT WISCONSIN PUBLIC SERVICE CORPORATION - GAS/PETROLEUM 933 S WILDWOOD AVE SHEBOYGAN, WI 53081 (920) 946-5410 Nicholas.wilbert@wisconsinpublicservice.com

CASEY SCHWANDT (PRIMARY CONTACT) WEST SHORE PIPE LINE COMPANY -GAS/PETROLEUM 11115 WEST COUNTY LINE RD MILWAUKEE, WI 53224 (920) 655-1428 cschwandt@buckeye.com



SHEET

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PROJECT NO: 4085-60-71	HWY: STH 32	COUNTY: CALUMET	TYPICAL SECTIONS

2

SHEET

WISDOT/CADDS SHEET 42

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FILE NAME : N:\PDS\C3D\40856000\SHEETSPLAN\020301-TS.DWG LAYOUT NAME - 020302-ts-ex PLOT DATE : 10/20/2022 7:55 AM

PLOT BY : MAATTA, TRAVIS SHANE PLOT NAME :

2

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WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION STH 32 STA 85+50 TO STA 139+85

PROJECT NO:	4085-60-71	HWY: STH 32	COUNTY: CALUMET	TYPICAL SECTIONS

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WISDOT/CADDS SHEET 42



STH 32

PROJECT NO: 4085-60-71	HWY: STH 32	COUNTY: CALUMET	TYPICAL SECTIONS

2

PLOT DATE : 10/20/2022 7:55 AM PLOT BY : MAATTA, TRAVIS SHANE PLOT NAME :

CONCRETE CURB AND GUTTER 30-INCH TYPE D

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WISDOT/CADDS SHEET 42



PROPOSED TYPICAL SECTION STH 32 STA 85+50 TO STA 139+85

PROJECT NO:	4085-60-71	HWY: STH 32	COUNTY: CALUMET	TYPICAL SECTIONS

2

PLOT DATE : 10/20/2022 7:55 AM PLOT BY : MAATTA, TRAVIS SHANE PLOT NAME :

2

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WISDOT/CADDS SHEET 42





PLOT SCALE : 1IN:10 FT

SHEET

WISDOT/CADDS SHEET 42

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FILE NAME : N:\PDS\C3D\40856000\SHEETSPLAN\021001-CD.DWG LAYOUT NAME - 021002-cd PLOT DATE : 10/20/2022 7:59 AM PLOT BY : MAATTA, TRAVIS SHANE PLOT NAME :



FILE NAME : N:\PDS\C3D\40856000\\$HEETSPLAN\021001-CD.DWG LAYOUT NAME - 021003-cd

PLOT DATE : 7/22/2022 4:32 PM PLOT BY : MAATTA, TRAVIS SHANE PLOT NAME :



LAYOUT NAME - 021001-id

PLOT DATE : 1/4/2023 4:07 PM

PLOT NAME :



FILE NAME : N:\PDS\C3D\40856000\SHEETSPLAN\021200-PD.DWG LAYOUT NAME - 021200-pd PLOT DATE : 1/4/2023 8:24 AM PLOT BY : MAATTA, TRAVIS SHANE PLOT NAME :



FILE NAME : LAYOUT NAME - 021201-pd PLOT DATE : PLOT BY : MAATTA, TRAVIS SHANE 1/5/2023 4:04 PM





N:\PDS\C3D\40856000\SHEETSPLAN\021202-PD.DWG FILE NAME : LAYOUT NAME - 021203-pd

PLOT DATE : PLOT BY : CAMPSHURE, MICHAEL R PLOT NAME : 2/24/2022 3:21 PM





FILE NAME : N:\PDS\C3D\40856000\SHEETSPLAN\022001-EC.DWG LAYOUT NAME - 022001-ec PLOT DATE : 1/6/2023 7:51 AM

PLOT BY : MAATTA, TRAVIS SHANE PLOT NAME :









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

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

PLOT SCALE : \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

Estimate Of Quantities

					4085-60-71	
Line	Item	Item Description	Unit	Total	Qty	
0002	203.0211.S	Abatement of Asbestos Containing Material (structure) 01. B-08-0009	EACH	1.000	1.000	
0004	203.0220	Removing Structure (structure) 01. B-08-0009	EACH	1.000	1.000	
0006	203.0330	Debris Containment (structure) 01. B-08-0009	EACH	1.000	1.000	
8000	204.0110	Removing Asphaltic Surface	SY	17.000	17.000	
0010	204.0115	Removing Asphaltic Surface Butt Joints	SY	89.000	89.000	
0012	204.0120	Removing Asphaltic Surface Milling	SY	48,588.000	48,588.000	
0014	204.0150	Removing Curb & Gutter	LF	41.000	41.000	
0016	204.0165	Removing Guardrail	LF	4,873.000	4,873.000	
0018	204.0270	Abandoning Culvert Pipes	EACH	2.000	2.000	
0020	206.1001	Excavation for Structures Bridges (structure) 01. B-08-0009	EACH	1.000	1.000	
0022	210.1500	Backfill Structure Type A	TON	355.000	355.000	
0024	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 4085-60-71	EACH	1.000	1.000	
0026	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	150.000	150.000	
0028	213.0100	Finishing Roadway (project) 01. 4085-60-71	EACH	1.000	1.000	
0030	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,748.000	1,748.000	
0032	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	118.000	118.000	
0034	390.0303	Base Patching Concrete	SY	384.000	384.000	
0036	415.0120	Concrete Pavement 12-Inch	SY	123.000	123.000	
0038	415.0410	Concrete Pavement Approach Slab	SY	196.000	196.000	
0040	416.0610	Drilled Tie Bars	EACH	2.000	2.000	
0042	416.0620	Drilled Dowel Bars	EACH	768.000	768.000	
0044	416.1010	Concrete Surface Drains	CY	8.000	8.000	
0046	450.4000	HMA Cold Weather Paving	TON	2,400.000	2,400.000	
0048	455.0605	Tack Coat	GAL	6,455.000	6,455.000	
0050	460.2000	Incentive Density HMA Pavement	DOL	6,128.000	6,128.000	
0052	460.6224	HMA Pavement 4 MT 58-28 S	TON	9,575.000	9,575.000	
0054	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	17,283.000	17,283.000	
0056	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	8,428.000	8,428.000	
0058	502.0100	Concrete Masonry Bridges	CY	142.000	142.000	
0060	502.3200	Protective Surface Treatment	SY	1,092.000	1,092.000	
0062	502.3210	Pigmented Surface Sealer	SY	197.000	197.000	
0064	502.4204	Adhesive Anchors No. 4 Bar	EACH	920.000	920.000	
0066	502.4205	Adhesive Anchors No. 5 Bar	EACH	112.000	112.000	
0068	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	15,080.000	15,080.000	
0070	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	10.000	10.000	
0072	506.7050.S	Removing Bearings (structure) 01. B-08-0009	EACH	10.000	10.000	
0074	509.0301	Preparation Decks Type 1	SY	102.000	102.000	
0076	509.0302	Preparation Decks Type 2	SY	41.000	41.000	
0078	509.0500	Cleaning Decks	SY	1,003.000	1,003.000	
0080	509.1200	Curb Repair	LF	62.000	62.000	
0082	509.1500	Concrete Surface Repair	SF	23.000	23.000	
0084	509.2000	Full-Depth Deck Repair	SY	3.000	3.000	
0086	509.2500	Concrete Masonry Overlay Decks	CY	103.000	103.000	
0088	509.9050.S	Cleaning Parapets	LF	411.000	411.000	
0090	516.0500	Rubberized Membrane Waterproofing	SY	32.000	32.000	
0092	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000	
0094	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	1.000	1.000	
0096	524.0124	Culvert Pipe Salvaged 24-Inch	LF	8.000	8.000	
0098	524.0136	Culvert Pipe Salvaged 36-Inch	LF	16.000	16.000	



			I	Estimate Of C	Quantities	
					4085-60-71	
Line	Item	Item Description	Unit	Total	Qty	
0100	524.0148	Culvert Pipe Salvaged 48-Inch	LF	32.000	32.000	
0102	524.0624	Apron Endwalls for Culvert Pipe Salvaged 24-Inch	EACH	2.000	2.000	
0104	524.0636	Apron Endwalls for Culvert Pipe Salvaged 36-Inch	EACH	2.000	2.000	
0106	524.0648	Apron Endwalls for Culvert Pipe Salvaged 48-Inch	EACH	2.000	2.000	
0108	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	41.000	41.000	
0110	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	130.000	130.000	
0112	601.0590	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT	LF	60.000	60.000	
0114	602.0415	Concrete Sidewalk 6-Inch	SF	152.000	152.000	
0116	602.0615	Curb Ramp Detectable Warning Field Radial Natural Patina	SF	21.000	21.000	
0118	606.0200	Riprap Medium	CY	12.000	12.000	
0120	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	205.000	205.000	
0122	614.0010	Barrier System Grading Shaping Finishing	EACH	6.000	6.000	
0124	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000	
0126	614.2300	MGS Guardrail 3	LF	4,587.500	4,587.500	
0128	614.2500	MGS Thrie Beam Transition	LF	157.584	157.584	
0130	614.2610	MGS Guardrail Terminal EAT	EACH	6.000	6.000	
0132	618.0100	Maintenance And Repair of Haul Roads (project) 01. 4085-60-71	EACH	1.000	1.000	
0134	619.1000	Mobilization	EACH	1.000	1.000	
0136	624.0100	Water	MGAL	19.000	19.000	
0138	628.1504	Silt Fence	LF	1,693.000	1,693.000	
0140	628.1520	Silt Fence Maintenance	LF	1,693.000	1,693.000	
0142	628.1905	Mobilizations Erosion Control	EACH	9.000	9.000	
0144	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0146	628.7015	Inlet Protection Type C	EACH	9.000	9.000	
0148	633.5200	Markers Culvert End	EACH	7.000	7.000	
0150	642.5001	Field Office Type B	EACH	1.000	1.000	
0152	643.0300	Traffic Control Drums	DAY	1,743.000	1,743.000	
0154	643.0410	Traffic Control Barricades Type II	DAY	40.000	40.000	
0156	643.0420	Traffic Control Barricades Type III	DAY	1,440.000	1,440.000	
0158	643.0705	Traffic Control Warning Lights Type A	DAY	2,540.000	2,540.000	
0160	643.0715	Traffic Control Warning Lights Type C	DAY	200.000	200.000	
0162	643.0900	Traffic Control Signs	DAY	5,215.000	5,215.000	
0164	643.0920	Traffic Control Covering Signs Type II	EACH	3.000	3.000	
0166	643.1000	Traffic Control Signs Fixed Message	SF	18.000	18.000	
0168	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000	
0170	643.3105	Temporary Marking Line Paint 4-Inch	LF	41,651.000	41,651.000	
0172	643.3120	Temporary Marking Line Epoxy 4-Inch	LF	17,255.000	17,255.000	
0174	643.5000	Traffic Control	EACH	1.000	1.000	
0176	644.1410	Temporary Pedestrian Surface Asphalt	SF	280.000	280.000	
0178	644.1601	Temporary Pedestrian Curb Ramp	DAY	20.000	20.000	
0180	644.1810	Temporary Pedestrian Barricade	LF	145.000	145.000	
0182	645.0120	Geotextile Type HR	SY	24.000	24.000	
0184	646.1020	Marking Line Epoxy 4-Inch	LF	17,255.000	17,255.000	
0186	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	21,429.000	21,429.000	
0188	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	817.000	817.000	
0190	646.6120	Marking Stop Line Epoxy 18-Inch	LF	42.000	42.000	
0192	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	142.000	142.000	
0194	650.6501	Construction Staking Structure Layout (structure) 01. B-08-0009	EACH	1.000	1.000	
0196	650.7000	Construction Staking Concrete Pavement	LF	130.000	130.000	



		Estimate Of Quantities							
					4085-60-71				
Line	Item	Item Description	Unit	Total	Qty				
0198	650.8000	Construction Staking Resurfacing Reference	LF	11,895.000	11,895.000				
0200	650.9000	Construction Staking Curb Ramps	EACH	1.000	1.000				
0202	650.9500	Construction Staking Sidewalk (project) 01. 4085-60-71	EACH	1.000	1.000				
0204	650.9911	Construction Staking Supplemental Control (project) 01. 4085-60-71	EACH	1.000	1.000				
0206	650.9920	Construction Staking Slope Stakes	LF	659.000	659.000				
0208	690.0150	Sawing Asphalt	LF	1,608.000	1,608.000				
0210	690.0250	Sawing Concrete	LF	293.000	293.000				
0212	715.0502	Incentive Strength Concrete Structures	DOL	852.000	852.000				
0214	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	672.000	672.000				
0216	740.0440	Incentive IRI Ride	DOL	18,482.000	18,482.000				
0218	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000				
0220	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000				
0222	SPV.0035	Special 01. Slope Paving Repair Select Crushed Aggregate	CY	85.000	85.000				
0224	SPV.0060	Special 01. Grading, Shaping, and Finishing Culverts and Endwalls	EACH	7.000	7.000				
0226	SPV.0060	Special 02. Cleaning Ditch	EACH	1.000	1.000				
0228	SPV.0060	Special 03. Curb Ramp Restoration	EACH	1.000	1.000				
0230	SPV.0090	Special 01. Temporary Marking Crosswalk Paint Transverse Line 6-Inch	LF	196.000	196.000				



# ABANDONING CULVERT PIPES

				204.0270 ABANDONING	
				CULVERT PIPES	
CATEGORY	STATION	OFFSET	LOCATION	EACH	REMARKS
0010	54+83	LT	STH 32 LT	1	
0010	55+57	RT	STH 32 RT	1	
			TOTAL 0010	2	

## REMOVING ASPHALTIC SURFACE

					204.0110 REMOVING ASPHALTIC SURFACE	
CATEGORY	STATION	ТО	STATION	LOCATION	SY	REMARKS
0010	32+99	-	33+07	TECKLA PLACE SIDEWALK	17	
				TOTAL 0010	17	

## **REMOVING APSHALTIC SURFACE BUTT JOINTS**

				ASPHALTIC SURFACE BUTT JOINTS	
CATEGORY	STATION	OFFSET	LOCATION	SY	
0010	17+87	0.00'	STH 32	10	
0010	32+68	61.97' LT	TECKLA PL	8	
0010	32+65	90.44' RT	TECKLA PL	7	
0010	50+08	89.85' RT	FRONTIER HEIGHTS LANE	5	
0010	54+97	0.00'	STH 32	9	
0010	58+00	0.00'	STH 32	9	
0010	84+89	84.24' LT	SEVEN CORNERS RD	6	
0010	86+28	101.12' RT	SEVEN CORNERS RD	6	
0010	98+95	92.66' LT	FUR FARM RD	8	
0010	98+15	91.28' RT	FUR FARM RD	6	
0010	110+50	LT	DRIVEWAY	4	
0010	131+63	79.60' RT	CLARK DR	6	
0010	139+85	0.00'	STH 32	7	
				80	

PROJECT NO: 4085-60-71 HWY: STH 32		COUNTY: CALUMET	MISCELLANEOUS QUANTITIES	
FILE NAME : N:\PDS\c3d\40856000\SheetsPlan\pdf\030200_mq.pptx		PLOT DATE : MARCH 30, 2020	PLOT BY : TSM	PLOT NAME :

	SHEET:	E

# **REMOVING ASPHALTIC SURFACE MILLING**

					204.0120	
					REMOVING	
					ASPHALTIC	
					SURFACE MILLING	
CATEGORY	STATION	ТО	STATION	LOCATION	SY	REMA
0010	17+87	-	54+97	STH 32	16,022	
0010	58+00	-	193+85	STH 32	32,566	
				TOTAL 0010	48,588	

## REMOVING CURB & GUTTER

					204.0150 REMOVING CURB & GUTTER	
CATEGORY	STATION	ТО	STATION	LOCATION	LF	REMARI
0010	32+96	-	33+31	STH 32 LT	41	STH 32 / TEC
				TOTAL 0010	41	

# REMOVING GUARDRAIL

					204.0165 REMOVING GUARDRAIL	
CATEGORY	STATION	ТО	STATION	LOCATION	LF	REMAR
0010	38+75	-	49+58	STH 32 RT	1,091	
0010	50+60	-	55+62	STH 32 RT	502	
0010	40+73	-	55+06	STH 32 LT	1,426	
0010	57+37	-	67+82	STH 32 LT	1,052	
0010	57+94	-	66+01	STH 32 RT	802	
		-		TOTAL 0010	4,873	

PROJECT NO: 4085-60-71	HWY: STH 32	COUNTY: CALUMET	MISCELLANEOUS QUANTITIES	
FILE NAME : N:\PDS\c3d\40856000\SheetsPlan\pdf\030200_mq.pptx		PLOT DATE: MARCH 30, 2020	PLOT BY : TSM	PLOT NAME :

ARKS

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ECKLA LN

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SHEET:

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# PREPARE FOUNDATION FOR ASPHALTIC PAVING

					211.0100.01 PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT) (01.	
CATEGORY	STATION	ТО	STATION	LOCATION	4083-60-71) LS	REMARKS
0010	17+87	-	139+85	4085-60-71	1	ENTIRE PROJECT LEN
				TOTAL 0010	1	

ISHING ROADWAY	
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CATEGORY	STATION	ТО	STATION	LOCATION	213.0100.01 FINISHING ROADWAY (PROJECT) (01. 4085-60-71) FACH	REMARKS
0010	17+87	-	139+58	STH 32	1	ENTIRE PROJECT
				TOTAL 0010	1	

PROJECT NO: 4085-60-71	HWY: STH 32	COUNTY: CALUMET	MISCELLANEOUS QUANTITIES	
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## BASE AGGREGATE

						305.0110 BASE AGGREGATE	624.0100	
CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	TON	MGAL	R
0010	18+32	-	31+86	RT	STH 32	21	0.2	
0010	33+26	-	49+99	RT	STH 32	163	1.6	
0010	33+31	-	55+06	LT	STH 32	219	2.2	
0010	50+21	-	55+54	RT	STH 32	38	0.4	
0010	57+42	-	84+43	LT	STH 32	211	2.1	
0010	57+99	-	84+95	RT	STH 32	203	2.0	
0010	85+82	-	98+02	LT	STH 32	89	0.9	
0010	86+57	-	97+63	RT	STH 32	84	0.8	
0010	99+03	-	131+51	RT	STH 32	292	2.9	
0010	99+65	-	139+85	LT	STH 32	350	3.5	
0010	131+75	-	139+85	RT	STH 32	78	0.8	
					TOTAL 0010	1,748	17.50	

\* QUANTITES SHOWN ELSEWHERE

PROJECT NO: 4085-60-71	HWY: STH 32	COUNTY: CALUMET	MISCELLANEOUS QUANTITIES	
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REMARKS

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## CONCRETE BASE PATCHING

					*		
			390.0303	416.0620	690.0150	690.0250	
			BASE PATCHING	DRILLED DOWEL		SAWING	
			CONCRETE	BARS	SAWING ASPHALT	CONCRETE	
CATEGORY	STATION	OFFSET	SY	EACH	LF	LF	REMARKS
0010	34+64	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	39+48	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	50+64	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	63+82	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	65+48	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	67+77	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	72+28	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	77+80	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	84+00	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	89+60	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	92+27	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	94+11	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	96+04	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	96+35	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	101+12	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	104+65	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	109+00	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	109+35	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	132+46	STH 32 LT & RT	16	32	48	12	6-FT X 24-FT
0010	UNDISTRIBUTED	STH 32 LT & RT	80	160	240	60	5 LOCATIONS AT 6-FT X 24-FT
		TOTAL 0010	384	768	1,152	288	

\* QUANTITES SHOWN ELSEWHERE

## MISC CONCRETE ITEMS

					*							*		
					305.0120	415.0120	415.0410	416.1010	601.0588	601.0590	606.0200	624.0100	645.0120	
					BASE				CONCRETE CURB	CONCRETE CURB				
					AGGREGATE	CONCRETE	CONCRETE		& GUTTER 4-	& GUTTER 4-				
					DENSE 1 1/4-	PAVEMENT 12-	PAVEMENT	CONCRETE	INCH SLOPED 36-	INCH SLOPED 36-			GEOTEXTILE TYPE	
					INCH	INCH	APPROACH SLAB	SURFACE DRAINS	INCH TYPE TBT	INCH TYPE TBTT	RIPRAP MEDIUM	WATER	HR	
CATEGORY	STATION	TO	STATION	LOCATION	TON	SY	SY	CY	LF	LF	CY	MGAL	SY	REMARKS
0010	55+06	-	55+70	STH 32	55	-	97	-	-	-	-	0.75	-	
0010	57+28	-	57+94	STH 32	56	-	99	-	-	-	-	0.75	-	
0010	54+56	-	55+07	42.00'LT	-	15	-	2	47	-	3	-	6	
0010	55+07	-	55+57	42.00' RT	-	46	-	2	16	30	3	-	6	
0010	57+42	-	57+92	42.00'LT	-	47	-	2	16	30	3	-	6	
0010	57+93	-	58+44	42.00" RT	-	15	-	2	51		3	-	6	
				TOTAL 0010	112	123	196	8	130	60	12	1.50	24	
				* QUANTITES SHOWN ELSEWHERE										

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					211.0400 PREPARE FOUNDATION FOR ASPHALTIC	450.4000 HMA COLD WEATHER	455.0605	460.6224 HMA PAVEMENT
	CTATION	TO		OFFEET	SHOULDERS	PAVING	TACK COAT	4 MT 58-28 S
CATEGORY	STATION	10	STATION	OFFSET	SIA	ION	GAL	ION
0010	17+87	-	54+97	LT/RT	-	-	1,928	2859
0010	36+15	-	51+61	RT	15	-	106	158
0010	38+67	-	55+06	LT	16	-	106	157
0010	52+74	-	55+26	RT	3	-	16	24
0010	57+73	-	68+75	LT	11	-	73	109
0010	58+00	-	141+18	LT/RT	-	-	3,912	5803
0010	58+00	-	68+27	RT	10	-	66	98
0010	87+01	-	94+64	RT	8	-	20	29
0010	88+50	-	97+70	LT	9	-	23	34
0010	99+03	-	130+45	RT	31	-	83	123
0010	101+95	-	139+85	LT	38	-	100	149
0010	132+07	-	139+85	RT	8	-	21	31
0010	17+87	-	139+85	LT/RT	-	2,400	-	-
				TOTAL 0010	150	2,400	6,455	9,575

# RUMBLE STRIPS

<u>HMA</u>

					RUMBLE STRIPS 2- LANE RURAL	RUMBLE STRIPS 2- LANE RURAL
CATEGORY	STATION	TO	STATION	OFFSET	LF	LF
0010	34+68	-	48+08	LT/RT	-	1.340
0010	52+08	-	54+72	LT/RT	-	264
0010	58+26	-	83+03	LT/RT	-	2,477
0010	88+02	-	96+37	LT/RT	-	835
0010	100+73	-	129+31	LT/RT	-	2,858
0010	133+31	-	139+85	LT/RT	-	654
0010	35+12	-	48+33	RT	1,326	-
0010	52+13	-	54+72	RT	259	-
0010	58+26	-	81+46	RT	2,310	-
0010	87+82	-	94+41	RT	659	-
0010	100+22	-	129+80	RT	2,963	-
0010	132+73	-	139+85	RT	714	-
0010	34+31	-	54+72	LT	2,036	-
0010	58+26	-	83+20	LT	2,504	-
0010	89+08	-	96+73	LT	765	-
0010	102+31	-	139+85	LT	3,747	-
				<b>TOTAL 0010</b>	17,283	8,428

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## REMARKS

MAINLINE (3 ") RT SHOULDER EXTENSION LT SHOULDER EXTENSION LT SHOULDER EXTENSION LT SHOULDER EXTENSION MAINLINE (3 ") RT SHOULDER EXTENSION LT SHOULDER EXTENSION RT SHOULDER EXTENSION LT SHOULDER EXTENSION RT SHOULDER EXTENSION PROJECT WIDE

REMARKS

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## <u>CULVERT SUMMARY</u>

			520.8000	522.1024 APRON	524.0124	524.0136	524.0148	524.0624	524.0636	524.0648	
				ENDWALLS FOR				APRON	APRON	APRON	
				CULVERT PIPE				ENDWALLS FOR	ENDWALLS FOR	ENDWALLS FOR	
			CONCRETE	REINFORCED	CULVERT PIPE						
			COLLARS FOR	CONCRETE 24-	SALVAGED 24-	SALVAGED 36-	SALVAGED 48-	SALVAGED 24-	SALVAGED 36-	SALVAGED 48-	
			PIPE	INCH	INCH	INCH	INCH	INCH	INCH	INCH	C
CATEGORY	STATION OFFSET	LOCATION	EACH	EACH	LF	LF	LF	EACH	EACH	EACH	
0010	41+12 LT&RT	STH 32 LT & RT	-	-	-	16	-	-	2	-	
0010	80+73 LT & RT	STH 32 LT & RT	-	-	8	-	-	2	-	-	
0010	105+44 LT	STH 32 LT	-	-	-	-	24	-	-	1	
0010	105+56 RT	STH 32 RT	-	-	-	-	8	-	-	1	
0010	113+00 LT	STH 32 LT	1	1	-	-	-	-	-	-	
		TOTAL 0010	1	1	8	16	32	2	2	2	

					<u>C</u>	URB RAMP				
					*					
					305.0120	416.0610	601.0411	602.0415	602.0615 CURB RAMP DETECTABLE	SPV.0060.03
					BASE				WARNING FIELD	
					AGGREGATE		CONCRETE CURB	CONCRETE	RADIAL	SPECIAL (03.
					DENSE 1 1/4-	DRILLED TIE	& GUTTER 30-	SIDEWALK 6-	NATURAL	CURB RAMP
					INCH	BARS	INCH TYPE D	INCH	PATINA	RESTORATION)
CATEGORY	STATION	TO	STATION	LOCATION	TON	EACH	LF	SF	SF	EACH
0010	32+96	-	33+31	STH 32 LT	6	2	41	152	21	1
				TOTAL 0010	6	2	41	152	21	1
		* QUAN	NTITIES SHOWN ELSEWHE	RE						

PROJECT NO: 4085-60-71	HWY: STH 32	COUNTY: CALUMET	MISCELLANEOUS QUANTITIES	
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633.5200	SPV.0060.01	
	SPECIAL (01.	
	GRADING,	
	SHAPING, AND	
	FINISHING	
MARKERS	CULVERTS AND	
CULVERT END	ENDWALLS)	
EACH	EACH	REMARKS
2	2	
2 2	2 2	
2 2 1	2 2 1	
2 2 1 1	2 2 1 1	
2 2 1 1 1	2 2 1 1 1	
2 2 1 1 1	2 2 1 1 1	

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REMARKS

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PLOT SCALE : 1:1

## BEAM GUARD

					614.0010	614.2300	614.2500	614.2610
					BARRIER SYSTEM	1		
					GRADING		MGS THRIE	
					SHAPING	MGS GUARDRAIL	BEAM	MGS GUARDRAIL
					FINISHING	3	TRANSITION	TERMINAL EAT
CATEGORY	STATION	ТО	STATION	LOCATION	EACH	LF	LF	EACH
0010	39+35	-	55+10	STH 32 LT	1	1,475.00	39.396	1
0010	57+38	-	67+99	STH 32 LT	1	975.00	39.396	1
0010	36+79	-	49+14	STH 32 RT	2	1,137.50	-	2
0010	53+43	-	55+61	STH 32 RT	1	125.00	39.396	1
0010	57+90	-	67+64	STH 32 RT	1	875.00	39.396	1
				<b>TOTAL 0010</b>	6	4,587.5	157.584	6

## BARRIER SYSTEM GRADING SHAPING AND FINISHING

							**	**	**	**	**
					*	*	*	*	*	*	*
					EXCAVATION			<b>EROSION MAT</b>	FERTILIZER TYPE	SEEDING	
					COMMON	BORROW	TOPSOIL	CLASS I TYPE B	В	MIXTURE NO. 20	SEED WATER
CATEGORY	STATION	TO	STATION	LOCATION	CY	CY	SY	SY	CWT	LB	MGAL
0010	35+61	-	37+80	STH 32 RT	107	140	254	254	0.16	6.86	5.7
0010	37+83	-	40+63	STH 32 LT	107	300	282	282	0.18	7.62	6.3
0010	48+00	-	49+85	STH 32 RT	25	70	315	315	0.20	8.50	7.0
0010	52+45	-	54+35	STH 32 RT	60	70	369	369	0.23	9.96	8.3
0010	66+00	-	68+90	STH 32 RT	69	90	735	735	0.46	19.85	16.5
0010	67+00	-	69+50	STH 32 LT	79	194	341	341	0.22	9.22	7.6
				TOTAL 0010	447	864	2,297	2,297	1.45	62	51.40

PAYMENT FOR FURNISHING AND PLACING TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 20, SEED WATER, EXCAVATION, BORROW, AND EROSION MAT CLASS 1 TYPE B IS INCIDENTAL TO ITEM NO. 'S 614.0010-BARRIER SYSTEM GRADING SHAPING FINISHING

\* ITEMS AND QUANTITES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY

**\*\*** QUANTITIES SHOWN ELSEWHERE

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REMARKS

REMARKS

TOPSOIL PLACED 6" DEEP TOPSOIL PLACED 6" DEEP

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## MOBILIZATION

					619.1000 MOBILIZATION	
CATEGORY	STATION	ТО	STATION	LOCATION	EACH	REMARKS
0010	17+87	-	139+85	STH 32	1	
				TOTAL 0010	1	

FIELD OFFICE

		642.5001		
		FIELD OFFICE TYPE		
		В		
CATEGORY	LOCATION	EACH	REMARKS	
0010	STH 32	1		
	TOTAL 0010	1		

CLEANING DITCH

			SPV.0060.02 SPECIAL (02. CLEANING	
CATEGORY	STATION	LOCATION	DITCH) EACH	REMARKS
0010	56+80	STH 32	1	RAILROAD DITCH
		<b>TOTAL 0010</b>	1	

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# EROSION CONTROL

					*	*			
					628.1504	628.1520	628.1905	628.1910 MOBILIZATIONS	628.7015
							MOBILIZATIONS	EMERGENCY	
						SILT FENCE	EROSION	EROSION	INLET PROTECTION
					SILT FENCE	MAINTENANCE	CONTROL	CONTROL	TYPE C
CATEGORY	STATION	ТО	STATION	LOCATION	LF	LF	EACH	EACH	EACH
0010		10,11		דם 9 דו ככוודס					2
0010		18+11			-	-	-	-	2
0010		23+72		STH 32, LI	-	-	-	-	1
0010		26+73		STH 32, LT	-	-	-	-	1
0010		27+97		STH 32, LT	-	-	-	-	1
0010		32+50		STH 32, LT	-	-	-	-	1
0010		32+86		STH 32, LT	-	-	-	-	1
0010	35+61	-	37+80	STH 32 RT	225	225	-	-	-
0010	37+83	-	40+63	STH 32 LT	277	277	-	-	-
0010	47+82	-	49+89	STH 32 RT	210	210	-	-	-
0010	52+20	-	54+50	STH 32 RT	239	239	-	-	-
0010	65+75	-	69+10	STH 32 RT	344	344	-	-	-
0010	66+86	-	69+84	STH 32 LT	312	312	-	-	-
0010	UNDISTRIBUTED						9	3	2
				TOTAL 0010	1,607	1,607	9	3	9

\* QUANTITIES SHOWN ELSEWHERE

				RESTORATIO	N			
			**	**	**	**	**	
			*	*	*	*	*	
				EROSION MAT	FERTILIZER TYPE	SEEDING		
			TOPSOIL	CLASS I TYPE B	В	MIXTURE NO. 20	SEED WATER	
CATEGORY	STATION	LOCATION	SY	SY	CWT	LB	MGAL	REMARKS
0010	40+83	STH 32 RT	122	122	0.08	3.29	3	PAID UNDER SPV.00
0010	41+36	STH 32 LT	188	188	0.12	5.07	4	PAID UNDER SPV.00
0010	80+73	STH 32 LT	182	182	0.11	4.92	4	PAID UNDER SPV.00
0010	80+74	STH 32 RT	100	100	0.06	2.69	2	PAID UNDER SPV.00
0010	105+44	STH 32 LT	182	182	0.11	4.92	4	PAID UNDER SPV.00
0010	105+56	STH 32 RT	228	228	0.14	6.17	5	PAID UNDER SPV.00
0010	113+00	STH 32 LT	106	106	0.07	2.87	2	PAID UNDER SPV.00
		<b>TOTAL 0010</b>	1,108	1,108	0.70	30	25	

PAYMENT FOR FURNISHING AND PLACING TOPSOIL, FERTILIZER TYPE B, SEED MIXTURE NO. 20, SEED WATER, AND EROSION MAT CLASS I TYPE B IS INCIDENTAL TO ITEM NO.'S SPV.0060.01- GRADING, SHAPING AND FINISHING APRON ENDWALLS

\* ITEMS AND QUANTITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY

\*\* QUANTITIES SHOWN ELSEWHERE

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REMARKS

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TECKLA	PLACE	CURB	RAMP	RESTOR	ATION

					IECKLA	PLACE CURB RAI	MP RESTORATION						1
					**	**	**	**	**	**	**		1
					*	628.1504	628.1520	*	*	*	*		3
							SILT FENCE	EROSION MAT	FERTILIZER TYPE	SEEDING			
					TOPSOIL	SILT FENCE	MAINTENANCE	CLASS I TYPE B	В	MIXTURE NO. 20	SEED WATER		l l
CATEGORY	STATION	ТО	STATION	LOCATION	SY	LF	LF	SY	CWT	LB	MGAL	REMARKS	
0010	32+96	-	33+43	TECKLA PL CURB RAMP	49	86	86	49	0.05	1.35	1.1	PAID UNDER SPV.0060.03	
				TOTAL 0010	49	86	86	49	0.05	1.35	1.1		

TOTAL 0010	49	86	86	49	0.05	1.35
PAYMENT FOR FURNISHING AND PLACING TOPSOIL, FERTILIZER TYPE	B, SEED MIXTU	JRE NO. 20, SEED WATER	R, AND EROSION N	AT CLASS I TYPE B IS	INCIDENTAL TO	
ITEM NO.'S SPV.0060.03-CURB RAMP RESTORATION						

\* ITEMS AND QUANTITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY

**\*\*** QUANTITIES SHOWN ELSEWHERE

# TRAFFIC CONTROL

			*	*	*	*	
			643.0300	643.0420	643.0705	643.0900	
					TRAFFIC		
					CONTROL		
					WARNING	TRAFFIC	
			TRAFFIC CONTROL	TRAFFIC CONTROL	LIGHTS TYPE	CONTROL	
			DRUMS	BARRICADES TYPE III	А	SIGNS	
CATEGORY	STATION	LOCATION	DAY	DAY	DAY	DAY	REMARKS
	10.00						
0010	16+00	CTH AA				90	
0010	32+65	TECKLA PL		180	360	225	
0010	50+10	Fontier Heights LN				45	
0010	56+50	STH 32		450	540	90	
0010	86+25	SEVEN CORNERS RD		180	360	225	
0010	98+50	FUR FARM RD		180	360	225	
0010	131+50	CLARK DR		180	360	180	
0010	140+00	STH 32		90	180	45	
0010	39+35	STH 32 LT	405			10	BEAM GUARD SHOULDER CLOSUF
0010	57+38	STH 32 LT	302			10	BEAM GUARD SHOULDER CLOSUF
0010	36+79	STH 32 RT	337			10	BEAM GUARD SHOULDER CLOSUF
0010	53+43	STH 32 RT	134			10	BEAM GUARD SHOULDER CLOSUF
0010	57+90	STH 32 RT	285			10	BEAM GUARD SHOULDER CLOSUF
		<b>TOTAL 0010</b>	1.463	1.260	2,160	1.175	

\* QUANTITES SHOWN ELSEWHERE

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PLOT NAME :

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PLOT SCALE : 1:1

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				*		*		*			
				643.0300	643.0410	643.0705	643.0715	643.0900	644.1410	644.1601	644.1810
					TRAFFIC	TRAFFIC	TRAFFIC		TEMPORARY		
				TRAFFIC	CONTROL	CONTROL	CONTROL		PEDESTRIAN	TEMPORARY	TEMPORARY
				CONTROL	BARRICADES	WARNING	WARNING	TRAFFIC	SURFACE	PEDESTRIAN	PEDESTRIAN
				DRUMS	TYPEII	LIGHTS TYPE A	LIGHTS TYPE C	CONTROL SIGNS	ASPHALT	CURB RAMP	BARRICADE
CATEGORY	STATION TO	STATION	LOCATION	DAY	DAY	DAY	DAY	DAY	SF	DAY	LF
0010	32+29 -	33+93	STH 32 LT	280	40	40	200	20	280	20	145
			TOTAL 0010	280	40	40	200	20	280	20	145

						PEDESTRIAN A	CCOMODATION					
				* 643.0300	643.0410 6	* 643.0705 643.0	* 715 643.0900	644.1410	644.1601	644.1810 S	SPV.0090.01 SPECIAL (01. TEMPORARY	
	CATEGORY STATION T	o station_	LOCATION	TRAFFIC CONTROL DRUMS DAY	TRAFFIC CONTROL C BARRICADES V TYPE II LIG DAY	TRAFFIC TRAF CONTROL CONT VARNING WARN HTS TYPE A LIGHTS DAY DA	FIC ROL IING TRAFFIC IYPE C CONTROL SIG Y DAY	TEMPORARY PEDESTRIAN SURFACE NS ASPHALT SF	TEMPORARY T PEDESTRIAN P CURB RAMP E DAY	EMPORARY EDESTRIAN GARRICADE L LF	MARKING CROSSWALK PAINT TRANSVERSE LINE 6-INCH) LF	REMARKS
	0010 32+29	- 33+93	STH 32 LT	280	40	40 20	0 20	280	20	145	196 STH 3	2 / TECKLA PL INTERSECTION
			<b>TOTAL 0010</b>	280	40	40 20	0 20	280	20	145	196	
	* QUAN	ITITIES SHOWN EL	SEWHERE									
						PAVEMEN	T MARKING					
					643.3105	643.3120	646.1020	646.1040	646.3040 MARKING LINE	646.6120	646.7420	
					TEMPORARY MARKING LINE PAINT 4-INCH	TEMPORARY MARKING LINE EPOXY 4-INCH	MARKING LINE EPOXY 4-INCH	MARKING LINE GROOVED WET REFELECTIVE EPOXY 4- INCH	GROOVED WET REFLECTIVE EPOXY 8-INCH	LINE EPOXY 18-	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6 INCH	5-
GORY	STATION	TO	STATION	LOCATION	LF	LF	LF	LF	LF	LF	LF	REMARKS
					YELLOW CENTERLINE	YELLOW CENTERLINE	YELLOW CENTERLINE					
10	1/+8/	-	21+18	STH 32	414	414	414	-	-	-	-	CENTERLINE 1 SOLID, 1 DASHED
	21+18	-	30+78	STH 32	240	240	240	-	-	-	-	CENTERLINE 1 DASHED
0	39+76	-	77+78	STH 32	7 604	7 604	7 604			-		CENTERLINE 2 SOLID
0	77+78	-	88+63	STH 32	1 356	1 356	1 356	-	-	-	-	CENTERLINE 1 SOLID 1 DASHED
5	88+63	-	101+75	STH 32	328	328	328	-	-	-	-	CENTERLINE 1 DASHED
)	101+75	-	111+69	STH 32	1,243	1,243	1,243	-	-	-	-	CENTERLINE 1 SOLID, 1 DASHED
	111+69	-	130+72	STH 32	3,806	3,806	3,806	-	-	-		CENTERLINE 2 SOLID
	130+72	-	139+85	STH 32	1,142	1,142	1,142	-	-	-	-	CENTERLINE 1 SOLID, 1 DASHED
	18+32	-	31+86	STH 32	-	-	-	1,354	-	-	-	RIGHT EDGELINE
	33+25	-	49+35	STH 32	-	-	-	1,614	-	-	-	RIGHT EDGELINE
	50+59	-	84+95	STH 32	-	-	-	3,427	-	-	-	RIGHT EDGELINE
	8/+32	-	9/+03 120+00	51H 32 22 UT2	-	-	-	1,032	-	-	-	
	99+72 130+77	-	139+85	STH 32	-	-	-	3,04Z 760	-	-	-	RIGHT EDGELINE
	30+31	-	83+70	STH 32	-	-	-	5,044	-	-		LEFT EDGELINE
	85+82	-	97+23	STH 32	-	-	-	1,141	-	-		LEFT EDGELINE
		-	139+85	STH 32	-	-	-	4,015	-	-	-	LEFT EDGELINE
	99+65			STH 32	-	-	-	-	244	-	-	TURN LANE
	99+65 82+50	-	84+94	011102			-	-	186	-	-	TURN LANE
	99+65 82+50 85+85	-	84+94 87+71	STH 32	-	-						
	99+65 82+50 85+85 95+64	- -	84+94 87+71 97+61	STH 32 STH 32	-	-	-	-	196	-	-	TURN LANE
	99+65 82+50 85+85 95+64 99+65	- - -	84+94 87+71 97+61 101+56	STH 32 STH 32 STH 32 STH 32	-	-	-	-	196 191	-	-	TURN LANE TURN LANE
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	99+65 82+50 85+85 95+64 99+65 31+86 17+87	- - - -	84+94 87+71 97+61 101+56 33+25 139+85	STH 32 STH 32 STH 32 STH 32 STH 32 STH 32	- - - 24,396		- - -	- - -	196 191 - -	- - 42 -	- - 142 -	TURN LANE TURN LANE TECKLA PL INTERSECTION TEMPORARY CENTERLINE (2 SOLID) MILLED

PROJECT NO: 4085-60-71 HWY: STH 32		COUNTY: CALUMET	MISCELLANEOUS QUANTITIES	
FILE NAME : N:\PDS\c3d\40856000\SheetsPlan\pdf\030200_mq.pptx		PLOT DATE : MARCH 30, 2020	PLOT BY : TSM	PLOT NAME :

SHEET:

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			SAWING			
				*	*	
				690.0150	690.0150	
					SAWING	
				SAWING ASPHALT	CONCRETE	
CATEGORY	STATION	OFFSET	LOCATION	LF	LF	REMARKS
0010	17+87	0.00'	STH 32	44		
0010	32+68	61.97' LT	TECKLA PL	38		
0010	32+65	90.44' RT	TECKLA PL	32		
0010	33+18	33.74' LT	TECKLA PL SIDEWALK	10		
0010			TECKLA PL CURB AREA	45	5	
0010	50+08	89.85' RT	FRONTIER HEIGHTS LANE	22		
0010	54+97	0.00'	STH 32	39		
0010	58+00	0.00'	STH 32	39		
0010	84+89	84.24' LT	SEVEN CORNERS RD	29		
0010	86+28	101.12' RT	SEVEN CORNERS RD	27		
0010	98+95	92.66' LT	FUR FARM RD	34		
0010	98+15	91.28' RT	FUR FARM RD	26		
0010	110+50	LT	DRIVEWAY	16		
0010	131+63	79.60' RT	CLARK DR	25		
0010	139+85	0.00'	STH 32	30		
			TOTAL 0010	456	5	
		* QUANTITES SHOWN ELSEWHE	ERE			

# CONSTRUCTION STAKING

					650.6500.01	650.7000	650.8000	650.9000	650.9500	650.9911.01	
					CONSTRUCTION					CONSTRUCTION	
					STAKING				CONSTRUCTION	STAKING	
					STRUCTURE	CONSTRUCTION	CONSTRUCTION		STAKING	SUPPLEMENTAL	
					LAYOUT	STAKING	STAKING	CONSTRUCTION	SIDEWALK	CONTROL	CC
					(STRUCTURE)	CONCRETE	RESURFACING	STAKING CURB	(PROJECT) (01.	(PROJECT) (01.	ST
					(01.B-08-0009)	PAVEMENT	REFERENCE	RAMPS	4085-60-71)	4085-60-71)	
CATEGORY	STATION	ТО	STATION	LOCATION	EACH	LF	LF	EACH	EACH	EACH	
0010	17,07		E4+07	CC LITS			2 710			1	
0010	1/+8/	-	54+97	511 52	-	-	5,710	-	-	1	
0010	32+96	-	33+31	STH 32 LT	-	-	-	1	1	-	
0010	36+15	-	37+39	STH 32 RT	-	-	-	-	-	-	
0010	38+67	-	39+92	STH 32 LT	-	-	-	-	-	-	
0010	48+61	-	49+84	STH 32 RT	-	-	-	-	-	-	
0010	52+74	-	53+98	STH 32 RT	-	-	-	-	-	-	
0010	55+06	-	55+70	STH 32	-	64	-	-	-	-	
0010	57+28	-	57+94	STH 32	-	66	-	-	-	-	
0010	55+42	-	57+57	STH 32	1	-	-	-	-	-	
0010	58+00	-	139+85	STH 32	-	-	8,185	-	-	-	
0010	67+07	-	68+70	STH 32 LT & RT	-	-	-	-	-	-	
				TOTAL 0010	1	130	11,895	1	1	1	· —

PROJECT NO: 4085-60-71	HWY: STH 32	COUNTY: CALUMET	MISCELLANEOUS QUANTITIES	
FILE NAME : N:\PDS\c3d\40856000\SheetsPlan\pdf\030200_mq.pptx		PLOT DATE : MARCH 30, 2020	PLOT BY : TSM	PLOT NAME :

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650.9920		
CONSTRUCTION STAKING SLOPE STAKES I F	RFMARKS	
-		
-	TECKLA PL INTERSECTION	
124		
125		
123		
124		
-	B-08-0009 CONCRETE APPROACH SLAB	
-	B-08-0009 CONCRETE APPROACH SLAB	
-		
-		
163		
659		

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TRAFFIC	CONTROL	DETOUR	SIGN	SUMMARY	

							643.0900	643.0420	643.0705	643.1000	643.1050		643.0920	
<b>)</b>						APPROX.	SIGNS	BARRICADES	WARNING	FIXED	SIGNS		COVERING	
					NUMB ER	SERVICE		TYPE III	LIGHTS	MESSAGE	PORTABLE	NO. OF	SIGNS	
	SIGN		SIGN	SIZE	IN	PERIOD			TYPE A	SIGN	CHANGEABLE	CYCLES	TYPE II	
						60					MESSAGE			
-	NO.		CODE	W X H	SERVICE	DAYS	DAYS	DAYS	DAYS	SF	DAYS		EACH	REMARKS
	1	STH 32/57, N. OF CTH X, PLACE 2000 <sup>-</sup> N. OF CTH X INTERSECTION	W 20-2A	48"X48"	1	60	60							
	2	STH 32/57, N. OF CTH X, PLACE ISOU <sup>4</sup> N. OF CTH X INTERSECTION	FMS	54"X24"		<u> </u>	<u> </u>			9				SEE SIGN DETAIL SHEET
	5	STH 32/5/, N. OF CTH X, MODIFY EXISTING J2-1 SIGN AS SHOWN	M 4-8	24 X12		60	60							
	4	CTU 22/57 N. OF CTU V. NODTEV EVICITING 12 1 CTON AC CUOUN	MO 5-1R	21 X21		60	60							
	4	STH 52/57, N. OF CTH X, MODIFY EXISTING JS-1 SIGN AS SHOWN	MO 6 1	24 XI2	1	60	60							PTCHT
	E.		MU 0-1	21 X21 60"X30"	1	60	60	60	120					
	5	STH 52/57, AT CIT J, PLACE IN SW QUADRANT OF CIT INTERSECTION	M 4_9P	30"\24"	1	60	60	00	120					2 1/4 MILES AREAD
	6	CTU I AT STU $32/57$ diace dicut de existing $p1_{-1}$ ston	M 1_6	24"\24"	1	60	60							32
			M 1-6	24 724	1	60	60							52
T		п	MO 6-1	21 " 21 "	1	60	60							
L	7	STH 32/57 S OF CTH 1 COVER EXISTING 14-2 STGN AS SHOWN			<u> </u>	00	00					1	1	
T	8	CTH = 1 S OF STH 32/57 PLACE 250' S OF STH 32/57 INTERSECTION	M 4-8	24"x12"	1	60	60							COVER ENTIRE SIGN
L		"	M 3-3	24"x12"	1	60	60							
L		11	M 1-6	24"X24"	1	60	60							32
L		п	M 1-6	24"X24"	1	60	60							57
L	9	CTH J. S. OF STH 32/57. MODIFY EXISTING J1-1 SIGN AS SHOWN	M 4-8A	24"X18"	1	60	60							
L	10	CTH J. N. OF FOUNDRY RD. PLACE 150' N. OF FOUNDRY RD INTERSECTION	M 4-8	24"X12"	1	60	60							
L		"	M 3-3	24"X12"	1	60	60							
I		II	M 1-6	24"X24"	1	60	60							32
L		"	M 1-6	24"X24"	1	60	60							57
I		11	MO 6-1	21"X21"	1	60	60							AHEAD
I	11	CTH J, S. OF FOUNDRY RD, PLACE 150' S. OF FOUNDRY RD INTERSECTION	M 4-8	24"X12"	1	60	60							
I		п	M 3-1	24"X12"	1	60	60							
I		Ш	M 1-6	24"X24"	1	60	60							32
I		"	M 1-6	24"X24"	1	60	60							57
I		"	MO 6-1	21"X21"	1	60	60							AHEAD
I	12	CTH J, N. OF CTH HH, PLACE 500' N. OF CTH HH INTERSECTION	M 4-8	24"X12"	1	60	60							
I		"	M 3-3	24"X12"	1	60	60							
I		"	M 1-6	24"X24"	1	60	60							32
I		" 	M 1-6	24"X24"	1	60	60							57
I			MO 5-1L	21"X21"	1	60	60							
I	13	CTH J, N. OF CTH HH, PLACE 250' N. OF CTH HH INTERSECTION	M 4-8	24"X12"	1	60	60							
I		11	M 3-1	24 X12		60	60							22
I		п	M 1 6	24 X24		60	60							52
I	14		M 1-8	24 724	1	60	60							57
I	14	CIR J, AI CIR HR, PLACE KIGHI OF EXISTING JIJ-I SIGN	M 3-3	24 X12	1	60	60							
I		"	M 1-6	24"X24"	1	60	60							32
I		"	M 1-6	24"X24"	1	60	60							57
I		"	MO 6-1	21"x21"	1	60	60							LEFT
I		PAGE SUBTOTALS			40		2.340	60	120	9	0		1	
							_,	2.2		-	-		-	

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

PROJECT NUMBER: 4085-60-71	HWY: STH 32/57	COUNTY: CALUMET	MISCELLANEOUS QUANTITIES
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## 643.0900 643.0420 643.0705 643.1000 643.105 APPROX. SIGNS BARRICADES WARNING FIXED SIGNS NUMB ER SERVICE TYPE III LIGHTS MESSAGE PORTABL SIGN SIGN SIZE IN PERIOD TYPE A SIGN CHANGEAE 60 MESSAG LOCATION CODE WХΗ SERVICE DAYS DAYS SF DAYS NO DAYS DAYS 15 CTH HH, AT CTH J, PLACE RIGHT OF EXISTING J13-1 SIGN M 4-8 24"X12" 1 60 60 M 3-1 24"X12" 1 60 60 1 M 1-6 24"X24" 60 60 ... M 1-6 24"X24" 1 60 60 MO 6-1 21"X21" 60 1 60 16 CTH HH, E. OF CTH J, PLACE 250' E. OF CTH J INTERSECTION M 4-8 24"X12" 1 60 60 M 3-3 24"X12" 60 1 60 M 1-6 24"X24" 1 60 60 M 1-6 24"X24" 60 60 1 17 CTH HH, E. OF CTH J, PLACE 500' E. OF CTH J INTERSECTION M 4-8 24"X12" 60 60 1 M 3-1 24"X12" 1 60 60 M 1-6 24"X24" 60 60 1 M 1-6 24"X24" 1 60 60 MO 5-1R 21"X21" 1 60 60 18 CTH HH, W. OF STH 32/57, MODIFY EXISTING J1-1 SIGN AS SHOWN M 4-8A 24"X18" 60 1 60 19 CTH HH, W. OF STH 32/57, PLACE 100' W. OF STH 32/57 INTERSECTION M 4-8 24"X12" 1 60 60 ... M 3-1 24"X12" 1 60 60 ... M 1-6 24"X24" 60 60 1 M 1-6 24"X24" 1 60 60 21"X21" 20 CTH HH, AT STH 32/57, MODIFY EXISTING J3-1 SIGN AS SHOWN MO 6-1 60 1 60 21 STH 32/57, AT CTH HH, PLACE IN NE QUADRANT OF CTH HH INTERSECTION R 11-3B 60"X30" 60 120 60 60 1 M 4-9R 30"X24" 1 60 60 22 STH 32/57, N. OF CTH HH, COVER EXISTING J4-2 SIGN AS SHOWN 1 23 STH 32/57, AT CTH AA, PLACE IN NE QUADRANT OF CTH AA INTERSECTION R 11-3B 60"X30" 1 60 60 60 120 STH 32/57, S. OF STRUCTURE, PLACE ON RIGHT SHOULDER, FIELD DETERMINE 24 7 PCMS 1 LOCATION STH 32/57, N. OF STRUCTURE, PLACE ON RIGHT SHOULDER, FIELD DETERMINE 25 PCMS 1 7 LOCATION 26 STH 32/57, AT CTH HH, MODIFY EXISTING J3-1 SIGN AS SHOWN M 4-8 24"X12" 1 60 60 MO 6-1 21"X21" 1 60 60 27 STH 32/57, S. OF CTH HH, COVER EXISTING D1-3 SIGN AS SHOWN 28 STH 32/57, S. OF CTH HH, MODIFY EXISTING J2-1 SIGN AS SHOWN M 4-8 24"X12" 60 60 1 MO 6-1 21"X21' 1 60 60 29 STH 32/57, S. OF CTH HH, PLACE 1500' S. OF CTH HH INTERSECTION FMS 54"X24' 1 9 30 STH 32/57, S. OF CTH HH, PLACE 2000' S. OF CTH HH INTERSECTION W 20-2A 48"X48" 1 60 60 14 PAGE SUBTOTALS 32 1,680 120 240 9.0 72 PROJECT TOTALS 4,020 180 360 18 14

# TRAFFIC CONTROL DETOUR SIGN SUMMARY

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

PROJECT NUMBER: 4085-60-71	HWY: STH 32/57	COUNTY: CALUMET	MISCELLANEOUS QUANTITIES
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50 S	10.57	643.0920 COVERING	
LE BLE	NO. OF CYCLES	SIGNS TYPE II	
GΕ		EACH	REMARKS
			32
			57
			RIGHT
			32
			57
			22
			57
			57
			32
			57
			AHEAD
			2 1/4 MILES AHEAD
	1	1	COVER ENTIRE SIGN
			3/4 MILES AHEAD
			PLACE IN ADVANCE OF CLOSURE
			PLACE IN ADVANCE OF CLOSURE
			AHEAD
	1	1	COVER "CHILTON-GREEN BAY"
			AHEAD SEE SIGN DETAIL SHEET
		2	
		3	

SHEET	E







N:\PDS\C3D\40856000\SHEETSPLAN\050201-PN.DWG FILE NAME : LAYOUT NAME - 050203-pn

PLOT DATE : MAATTA, TRAVIS SHANE 10/20/2022 7:58 AM PLOT BY :

WISDOT/CADDS SHEET 44





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		SHEET		E	
PLOT SCALE :	1 IN:100 FT		WISDOT/CADDS	SHEET 44	

# Standard Detail Drawing List

08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB. TIES AND CURB AND GUTTER APPLICATIONS
08D02-07A	CONCRETE SURFACE DRATNS FLUME TYPE AT STRUCTURES
08D02-07B	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07C	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D04-06	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5. 6. 7A. 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
12A03-10	NAME PLATE (STRUCTURES)
13A03-07	CONCRETE PAVEMENT SHOULDERS
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13А10-02В	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13c01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C14-07A	BASE PATCHING CONCRETE
13С14-07В	BASE PATCHING CONCRETE
13C14-07C	BASE PATCHING CONCRETE
13C19-03	HMA LONGITUDINAL JOINTS
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORDING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORDING TERMINAL (MGS)
14044-04C	MIDWEST GUARDRAIL STSTEM ENERGY ADSORDING TERMINAL (MGS)
14045-058	MIDWEST GUARDRAIL STSTEM THREE DEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SISTEM THREE BEAM TRANSITION (MGS)
14B45_05C	MIDWEST GUARDRATE STSTEM THREE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THREE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THREE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THREE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRATI SYSTEM THREE BEAM TRANSITION (MGS)
14B45-05T	MIDWEST GUARDRATI SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14в45-05к	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15С02-08в	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UN
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-22A	LONGITUDINAL MARKING (MAINLINE)
15С08-22В	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-22C	PAVEMENT MARKING (TURN LANES)
15C08-22D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-07A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15033-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-05A	PAVEMENT MARKING (INTERSECTIONS)
15028-04	IRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

NDIVIDED ROAD OPEN TO TRAFFIC

# Standard Detail Drawing List

15D30-07A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07в	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-07J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES



**SDD 08D01** 22a

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DEPARTMENT OF TRANSPORTATION

22 . **08D01** SDD



**SDD 08D01 22b** 



# SDD 08D02 - 07a



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SDD 08D02 - 07

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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 FABRIC 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 February 2020 DATE

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER 6

**DD 08D02 - 07** 

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**SDD 08D05** N Öa

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AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP

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.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF

THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4 - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

# LEGEND

 $\frac{1}{2}$ " EXPANSION JOINT SIDEWALK
 CONTRACTION JOINT FIELD LOCATED
 PAVEMENT MARKING CROSSWALK (WHITE)

# **CURB RAMPS TYPE 1 AND 1-A**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



**SDD 08D05** 20Ь

CURB RAMPS TYPE 2 AND 3	0 0 8 D (
	)5 - 20b
Image: LEGEND   Image: Weight of the second	
(SEE SDD 8D5-g)	6
LEVEL ** LANDING 1.5% CROSS (6) SLOPE ** MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK ** WIDTH SHOWN ELSEWHERE IN THE PLANS	
ICULAR TO DIRECTION OF WHEELCHAIR TRAVEL. 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. E AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH 10:1 FLARES.	
1UM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL	
E IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED OM THE ENGINEER.	
LOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND IGE.	
R FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM IDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO ES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING INIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, 5 AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.	
OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.	

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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= 9' - 0"		W = 10' - 0"	
	Y	Х	Y
	7' - 2 ½"	0' - 10 ¾"	7' - 7 1⁄4"
"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
		5' - 10 ¼"	23' - 2"

 $\frac{1}{2}$ " EXPANSION JOINT SIDEWALK
 CONTRACTION JOINT SIDEWALK
 PAVEMENT MARKING CROSSWALK (WHITE)

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# TYPE 4B AND 4B1

DEPARTMENT OF TRANSPORTATION



**SDD 08D05** N 0

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AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS. 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. DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER. (2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN  $\frac{1}{4}$  - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN (3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE. (4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT (6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET. (1) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN (12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL (13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT LEGEND ½" EXPANSION JOINT SIDEWALK CONTRACTION JOINT FIELD LOCATED PAVEMENT MARKING CROSSWALK (WHITE) ..... 6 6' - 0" MIN EXPANSION JOINT TOP OF 1.5% (4) ROADWAY DEPRESSED CURB & GUTTER - DETECTABLE WARNING FIELD (SEE SDD 8D5-g) RAMP **SECTION B - B FOR TYPE 7A** 0 Ň . S 08D0 **CURB RAMPS TYPE 5, 6, 7A, 7B & 8** STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ົ





DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

**GENERAL NOTES** 

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN X<sup>®</sup> DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

**SDD 08D05** 20g

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- DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.
- DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.
- FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S



# **PLAN VIEW RADIAL WEDGE PLATE CONNECTION DETAIL**

# **CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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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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# 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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

 $\bigoplus$  for PIPE SIZES UP to 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

# APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED II/30/94 DATE FHWA

CHIEF ROADWAY DEVELOPMENT ENGINEER

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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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# **SECTION A - A** LONGITUDINAL CONSTRUCTION JOINT



# TIE BAR TABLE

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

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

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

# **PAVEMENT DEPTH, DOWEL BAR SIZE** AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER ***	CONTRACTION JOINT SPACING	
6", 6 ½"	NONE	12"	
7", 7½"	1"	14"	
8" & ABOVE	1 1⁄4"	15"	

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

# **GENERAL NOTES**

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

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

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

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

# **CONCRETE PAVEMENT** SHOULDERS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Peter Kemp PAVEMENT SUPERVISOR 6

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**SDD 13A10** 02a

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# **2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

**02a** . 13A10 SDD



SHOULDER WIDTH



GROOVES AT 12" C- C ± 1"

48' LENGTH OF SHOULDER GROOVES WITH 12' GAP

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# **GENERAL NOTES**

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

1 Shoulder grooves may be omitted in areas with high concentrations of driveways.









**SECTION A - A** 

# **2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

**02b** . SDD13A10









SHOULDER GROOVES AT PASSING AND CLIMBING LANES



# SHOULDER GROOVES AT RAILROADS



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SDD13A10 - 02d

# **2-LANE RURAL SHOULDER** RUMBLE STRIP, MILLING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 7/2018 DATE

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER



**SDD 13A11** 03a

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![](_page_71_Figure_3.jpeg)

DEPARTMENT OF TRANSPORTATION

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SDD 13A11 -**03b** 



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# **CONCRETE PAVEMENT** 0 2 3 DEPARTMENT OF TRANSPORTATION ~ Δ

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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**

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NON-DOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

1 DOWEL BARS MAY NOT BE PRESENT.





PLAN VIEW SINGLE LANE REPAIR

FULL DEPTH CONCRETE PAVEMENT REMOVAL

EXISTING JOINT OR TRANSVERSE CRACK

REPAIR

LENGTH

**PLAN VIEW** 

**DOUBLE LANE REPAIR** 

LANE

LANE

WIDTH



SECTION B - B **CONCRETE REMOVAL** 



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FULL DEPTH SAW CUT, BOUNDARY OF FULL DEPTH REPAIR



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

# **BASE PATCHING CONCRETE**

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# **HMA PATCH REMOVAL**

# **SECTION A - A**

# **PLAN VIEW**

PROVIDE A 6 FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREA TO ADJACENT



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# **GENERAL NOTES**

- AS TO PROVIDE A TIGHT DRIVEN FIT.



**SECTION G - G TIE BARS ANCHORED INTO EXISTING PAVEMENT** 



**PLAN VIEW** SINGLE LANE CONCRETE BASE PATCH **GREATER THAN 15' LENGTH** 



**PLAN VIEW** SINGLE LANE CONCRETE BASE PATCH **15' MAXIMUM LENGTH** 

(1) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER

(2) USE AN ENGINEER APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.

(3) ANCHOR TIE BARS INTO DRILLED HOES WITH AN EPOXY.

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# **BASE PATCHING CONCRETE**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED March 2018 DATE

/S/ Peter Kemp, P.E PAVEMENT SUPERVISOR





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**SDD 14B42** 0 ð

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

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

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

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



SECTION THRU W-BEAM RAIL

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# **MIDWEST GUARDRAIL SYSTEM** (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



**SDD 14B42** . 0 **n** 



**SDD 14B42** 07d

# **GENERAL NOTES**

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

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

SEE SDD 14B42 FOR MORE INFORMATION.

★ DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

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

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

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





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

POST BOLT

(TYP.)

MGS BEAM

GUARD (MGS)







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

SECTION B - B TYPICAL AT POST NO. 2\*



SDD 14B44 - 04b

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# BILL OF MATERIALS

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

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# SDD14B44 - 04b

# MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



SDD 14B44 - 04c





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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

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)						
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" × 11/16" × 31/8" × 1/2"	1⁄4"		
S4	1	в	6¼8" × 2Ҋ6"	1⁄4"		
S5	1	в	6 <sup>1</sup> /8" × 1 <sup>1</sup> /16"	1/4"		
S6	1	в 📥	7∛4" × 1¾"	1⁄4"		
S <b>7</b>	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 <sup>1</sup> / <sub>16</sub> " × 6 <sup>3</sup> / <sub>16</sub> " × 1 <sup>3</sup> / <sub>32</sub> "	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

(P2)

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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 <sup>1</sup>/<sub>2</sub>-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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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION







# **GENERAL NOTES**

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

FULL ROAD CLOSURES.

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

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

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

  - D1 X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
  - R1 1 SHALL BE 36" X 36"
- (1)TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

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**SDD 15C02** . 0 80

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February 2020 DATE

WORK ZONE ENGINEER

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SDD

**15C04** 



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS





**SDD 15C08** 22a



**SDD 15C08 22b** 

MINOR CROSS STREET

-----

MINOR CROSS STREET

 $\triangleleft$ 

 $\leq \square$ 

 $\Box$ 

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\_\_\_\_\_

LANE LINES (YELLOW)

- LANE LINE (WHITE)

- SURFACED SHOULDER

- EDGE LINE (YELLOW)

- EDGE LINE (WHITE)

\_\_\_\_\_

(1) ARROW, TYPE 2 \_\_\_\_\_

\_

TWO WAY LEFT TURN LANE

(WHITE)

16'

- 4" DOUBLE YELLOW

4" DOUBLE YELLOW

\_\_\_\_\_

20'-50' MAX.

(2)

CROSS STREET

3

20'



(1) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

2 8" WHITE

(3) TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

# **GENERAL NOTES**

DIRECTION OF TRAFFIC



22c . **SDD15C08** 

# **PAVEMENT MARKING** (TURN LANES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION


**GENERAL NOTES** 

- (1) 8" WHITE
- SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.
- DIRECTION OF TRAFFIC
  - = LENGTH OF TURN BAY



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L = 48 - 87'



DISTANCE

VARIES

**SDD 15C08** . 22d

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(2) QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL

## **PAVEMENT MARKING** (TURN LANES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

### **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





SDD 15C19 - 07a



SDD 15C33 - 04



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# (INTERSECTIONS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION











NARROW SIDEWALK PASSING DETAIL



**TEMPORARY PEDESTRIAN ACCESS** 

### **GENERAL NOTES**

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

- 1 REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
- (3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.
- ★ USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

# TEMPORARY PEDESTRIAN BARRICADE\*

# 5 01 . 15D30 SDD

### **TRAFFIC CONTROL**, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



TEMPORARY CURB RAMP -

**FRONT VIEW** 

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TOP OF CURB -

CURB FACE

GUTTER PAN

### **TEMPORARY CURB RAMP PARALLEL TO CURB**

TEMPORARY CURB -

RAMP LANDING

(6)

- TOP OF CURB

GUTTER PAN

ROADWAY

SURFACE

TEMPORARY CURB -

RAMP LANDING

SIDE VIEW

- CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
- CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED  $\frac{1}{2}$ ". LATERAL EDGES MAY BE VERTICAL UP TO  $\frac{1}{4}$ " HIGH
- (1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN
- (2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- (3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP
- (6) IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS



## **TRAFFIC CONTROL**, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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**5D30** 

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IF PEDESS THEY ARI TEMPORI
SIGN LAY PLATES.
TYPICAL
WHEN TE SIDEWAL
1) SHOULDE REQUIRE
2) PROVIDE
3) USE TEMI DROP OF
4) MOUNTIN
5) PLACE ED THE SIDE

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IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

(1) SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.

(2) PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS

3 Use temporary pedestrian barricade to separate pedestrians from drop offs or for additional pedestrian channelization.

(4) MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.

5 place excess portion of temporary pedestrian barricade panel in the sidewalk terrace.

(6) WHITE 6" TEMPORARY PAVEMENT MARKING

 $\bigcirc$  IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.

8 4 FEET MINIMUM, 5 FEET DESIRABLE

(9) IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

### LEGEND

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

WORK AREA

//////	
	TEMPORARY CURB RAMP
	TEMPORARY PEDESTRIAN SURFACE "A"
$\langle \times \times \rangle$	TEMPORARY PEDESTRIAN SURFACE "B"
	TEMPORARY DETECTABLE WARNING FIELD
	TEMPORARY PEDESTRIAN BARRICADE
	OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
$\equiv >$	DIRECTION OF TRAFFIC

### TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

### **GENERAL NOTES**

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS

LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

ENGINEER.

OR REMOVED AS DIRECTED BY THE ENGINEER.

INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

- (1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
- (2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

### LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

F



SDD **15D44** 02

- 2. Color:

  - Message Black
- 3. Message Series C



2.250" Radius, 0.625" Border, 0.500" Indent

	1		1	
PROJECT NO:4085-60-71	HWY: STH 32/57	COUNTY: CALUMET	TEMPORARY SIGNING	
FILE NAME : C:\CAEfiles\Projects:tr_d3_3081a219FMS.dgn		PLOT DATE : 16-NOV 2022 3:	05 PLOT BY : mscj9h	PLOT NAME :

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# NOTES

1. Fixed Message Type II Sign - Type F Reflective

Background - Orange

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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.

)	
	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 - <sup>3</sup>/<sub>8</sub>" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

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





FILE NAME : C:\Users\Projects\tr\_stdplate\A411.DGN

# GENERAL NOTES

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

	4	Хe	ô	WOO	DF	POST						
	MODIFICATIONS											
	WISC	WISCONSIN DEPT OF TRANSPORTATION										
	APPROVE	D		hester .	Γέ	Spang						
			tor	State Tr	affic Er	ngineer						
	DATE 3	/27/9	<u>17</u>	PLA	TE NO	<u>A4-11.2</u>	2					
			9	SHEET	N0:		Ε					
OT SCALE	E:6.20 <b>7</b> 33	8:1.0000	000	WISD	от/с	ADDS SHEE	T 42					



FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A418.dgn

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PLOT BY : mscj9h PLOT NAME :

2	POSTS	HOLE SPACING	MOUNTING HOLES											
	2	16''	15''	31''	47''	63''								
	2	17''	16 <sup>1</sup> /2''	33 <sup> </sup> /2"	50 <sup> </sup> /2''	6 <b>7</b> 1/2'	I							
	2	18''	18''	36''	54''	72''								
	2	19''	19 <sup>1</sup> /2''	38 <sup> </sup> /2"	57 <sup> </sup> /2"	76 <sup> </sup> /2'								
	2	20''	21''	41''	61''	81''								
	2	21''	22 <sup> </sup> /2"	' 43 <sup> </sup> /2"	64 <sup> </sup> /2"	85 <sup> </sup> /2'								
	3	15''	12''	2 <b>7</b> ''	42''	57''	<b>7</b> 2''	87''	102''					
	3	16''	12''	28''	44''	60''	76"	92''	108''					
	3	17''	12''	29''	46''	63''	80''	97"	114''					
	3	18''	12''	30"	48''	66''	84''	102''	120''					
	3	19''	12''	31''	50"	69"	88''	107''	126''					
	3	20''	12''	32''	52"	72"	92"	112''	132''					

PLOT SCALE : 41.805205:1.000000



FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A59.dgn

7

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.
- 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<sup>1</sup>/<sub>2</sub>"

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: a. Hot dip or mechanically galvanized in accordance

8. NYLON WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $\frac{3}{8}$ " 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
i i i i i i i i i i i i i i i i i i i

WISDOT/CADDS SHEET 42



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
1																									
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 1/8	11 ½	1	1 7/8	11 1/4	21 7⁄8									
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									
PROJECT NO:					н	VY:					COUN	NTY:													
FILE	FILE NAME : C:\CAFFiles\Projects\tr stdplate\M16.DGN PLOT DATE : 16-MAR-2018 14										4 • 1 1	PL OT	BY • \$\$	olotuse	ar \$\$		F :								

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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				
PLOT SCALE : 6.655277:1.000000 WISDOT/CADDS SHEET								



FILE NAME : C:\Users\Projects\tr\_stdplate\M16B.DGN

PLOT DATE : 05-DEC-2005 11:29

PLOT NAME :

-	S
_	<u> </u>

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

Background - White & Black Arrow - Type H Reflective Red 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.



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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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PROJECT NO:

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PLAT DATE . AL-DEC-2015 17:54 PLAT RY . \$\$ Diatuser \$\$ PLAT NAME :

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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 & 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
1																										ſ
2	24	18	1 1/8	3⁄8	1/2	6	2	2	4 3/4	9 3⁄4																ſ
3	30	24	1 1/8	3⁄8	1/2	8	2 1/2	3	6 3⁄4	13																ſ
4																										ſ
5																										
PR	DJECT	NO:			-		Н	WY:					COU	NTY:		-						-				-
FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48A.DGN PLOT DATE : 09-MAR-2011 10:29										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



FILE NAME . C.\CAEfiles\Projects\tr\_stdplate\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

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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	

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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	ሥ
	6.25	DATE 10/15.	/15	PLATE NO	16-1.1	5
			SHEET	NO:		Ε



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.

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.5	STANDARD SIGN
2.5	R11-3B
2.5	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matther & Rauch For State Traffic Engineer
	DATE 3/21/17 PLATE NO. R11-3B.3
	SHEET NO: E
PLOT SCAL	E: 6.896672:1.000000 WISDOT/CADDS SHEET 42



FILE NAME : C:\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		5	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	Real R Rain	L
	10.0			for St	ate Traffic Engineer	<u>~</u>
	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



### TOTAL ESTIMATED QUANTITIES

8

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0220	REMOVING STRUCTURE B-8-9	EACH	1
203.0211.S	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-8-9	EACH	1
203.0330	DEBRIS CONTAINMENT B-8-9	EACH	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-8-9	LS	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	355
502.0100	CONCRETE MASONRY BRIDGES	CY	142
502.3200	PROTECTIVE SURFACE TREATMENT	SY	1,092
502.3210	PIGMENTED SURFACE SEALER	SY	197
502.4204	ADHESIVE ANCHORS NO. 4 BAR	EACH	920
502.4205	ADHESIVE ANCHORS NO.5 BAR	EACH	112
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	15,080
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	10
506 <b>.7</b> 050.S	REMOVING BEARINGS B-8-9	EACH	10
509.0301	PREPARATION DECKS TYPE 1	SY	102
509.0302	PREPARATION DECKS TYPE 2	SY	41
509.0500	CLEANING DECKS	SY	1,003
509.1200	CURB REPAIR	LF	62
509.1500	CONCRETE SURFACE REPAIR	SF	23
509.2000	FULL-DEPTH DECK REPAIR	SY	3
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	103
509.9050.S	CLEANING PARAPETS	LF	411
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	32
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	205
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4
SPV.0035	SLOPE PAVING REPAIR SELECT CRUSHED AGGREGATE	CY	85
	NON-BID ITEMS		
	FILLER	SIZE	1/2", 3/4"

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK/OVERLAY AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

FLASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON WINGS.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

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 CONSTRUCTION YEAR 1970.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN.

IF EXISTING BAR STEEL REINFORCEMENT IS SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH EPOXY ANCHORED BARS OF THE SAME SIZE. EMBED 1'-6" INTO EXISTING CONCRETÉ.

REMOVE ANY LOOSE CONCRETE AT GIRDER ENDS PRIOR TO POURING ABUTMENT DIAPHRAGMS. WORK TO BE PAID FOR UNDER "REMOVING STRUCTURE B-8-9" BID ITEM.

SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE OF WINGS/ABUTMENTS WITH "RUBBERIZED MEMBRANE WATERPROOFING".

DELAMINATIONS UNDER DECK TO BE REPAIRED WITH "FULL-DEPTH DECK REPAIR". EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.

SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATION. COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

The average overlay thickness is based on the minimum overlay thickness plus  $^{\prime\prime}_{2}\text{-Inch}$  to account for variations in the deck surface.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, AND FULL-DEPTH DECK REPAIR AREAS ARE ESTIMATES BASED ON INSPECTION REPORTS AND ARE TO BE DETERMINED BY THE ENGINEER, DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 3%. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

QUANTITIES FOR "CURB REPAIR", "CONCRETE SURFACE REPAIR" ON SUBSTRUCTURES, & "SLOPE PAVING REPAIR SELECT CRUSHED AGGREGATE" ARE ESTIMATES. ACTUAL QUANTITY AND LOCATION WILL BE DETERMINED BY THE ENGINEER BASED ON FIELD CONDITIONS AND NEEDS.

DEBRIS CONTAINMENT IS FOR FULL DEPTH DECK REPAIR AREAS ABOVE RAILROAD.

LIST OF DRAW

1. CONCRETE OVERLA 2. OVERLAY & CONCRE 3. CONCRETE REMOVAL 4. ABUTMENT BEARING 5. DECK & DIAPHRAGM 6. PARAPET DETAILS 7. WING & PARAPET R 8. BAR DETAILS 9. CLEANING PARAPET 10. SLOPE REPAIR 11. DECK SCANS

<b>7</b> '-5 <sup>!</sup> /2"±	STATE PROJECT NUMBER
	4085-60-71
DESIGN DATA	
INVENTORY RATING: OPERATING RATING: MAXIMUM STANDARD	5-16 5- 31 PERMIT VEHICLE LOAD: 200 (KIPS)
MATERIAL PROPERTIE CONCRETE MASONRY OVERLAY DEC SUPERSTRUCT	5
ALL OTHER	
GRADE 60 STEEL SHIM PLATES	
GRADE 50 —	
TRAFFIC VOL <u>STH 32</u> ADT = 6,500 (20) R.D.S. = 60 M.P.H. (4)	<u>UME</u> 2)
ABUT FOR WIN L = OUT T H = AVERA HEIGHT EF = EXPA D. VCF = (L)(3.0 VCF = (L)(3.0 VCF = VCF (E) VTON = VCF (2.1)	MENT BACKFILL DIAGRAM <u>S PARALLEL TO ROADWAY</u> 0 OUT OF ABUTMENT, INCLUDING WINGS (FT) E ABUTMENT FILL HEIGHT (FT). AN ESTIMATED 0F 4.75 FT WAS USED. ION FACTOR (1.20 FOR CY BID ITEMS 0 FOR TON BID ITEMS) (H) + (L)(0.5)(1,5H)(H) (27)
	I <mark>RUCTURE DESIGN CONTACTS:</mark> INATHON RESHESKE (608) 266-8491 AURA SHADEWALD (608) 267-9592
ŀ	
	BUREAU OF SIRUCIURES 1/10/23
<u>vings</u>	STH 32 OVER CANADIAN NATIONAL RAILROAD
ETE REMOVAL	OUNTY CALUMET TOWN NEW HOLSTEIN
MODIFICATION DETAILS	ESIGN SPEC. EHABILITATION N/A ESIGNED DESIGNED DRAWN PLANS
RETROFIT DETAILS	JLR CKD. ETP BY JLR CKD. ETP
S & CURB REPAIR	OVERLAY





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CONCRETE REMOVAL LIMITS	
CONCRETE REMOVAL LIMITS * DIMENSION IS TAKEN NORMAL TO © ABUTMENT	8 8
CONCRETE REMOVAL LIMITS	8
CONCRETE REMOVAL LIMITS	8 
CONCRETE REMOVAL LIMITS	

4085-60-71





SCALE = 5.00






	DIMENSION A	DIMENSION B
1	4'-85⁄8''	4'-8¾''
2	4'-8''	4'-85⁄8''
3	4'-9 <sup> </sup> /4''	4'-9 <sup> </sup> /8''
4	4'-83⁄8''	4'-9''



<u>S609</u>

1**7**5°

<u>S519</u>

<u>S526</u>

31/2"



175

41/2" F

<u>S522</u>

<u>S610</u>



<u>\$511, \$512, \$513, \$514, \$515, \$516, \$517</u>



<u>S524</u> <u>S523</u>



3'-9''

<u>S518</u>



/6" R

189°

<u>S520</u>

8







STATE PROJECT NUMBER

4085-60-71

|--|

(M02)

M03)

M04) (M04) <u>S</u>

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

BAR MARK	CO CO	NO. REQ'D.	LENGTH	AN AN	BAR SERIES	LOCATION
5401	Х	96	3'-2''	Х		ABUTMENT - VERT SHEAR KEY
S402	Х	32	6'-8''			ABUTMENT - HORIZ - SHEAR KEY
S603	Х	44	39'-4''			SUPERSTRUCTURE - HORIZ TRANSVERSE
\$504	Х	20	6'-0''			DIAPHRAGM - HORIZ THRU GIRDER
S605	Х	48	8'-1''			DIAPHRAGM - HORIZ.
S606	Х	16	4'-0''			DIAPHRAGM - HORIZ.
S60 <b>7</b>	Х	24	39'-4''			DIAPHRAGM - HORIZ.
S608	Х	20	8'-1''			DIAPHRAGM - HORIZ.
S609	Х	8	16'-1''	Х		DIAPHRAGM - HORIZ NE & SW CORNERS
5610	Х	8	14'-8''	Х		DIAPHRAGM - HORIZ SE & NW CORNERS
S511	Х	76	21'-0''	Х		DIAPHRAGM - VERT.
\$512	Х	24	20'-0''	Х		DIAPHRAGM - VERT OVER SHEAR KEY
\$513	Х	2	15'-4''	Х		DIAPHRAGM - VERT NE & SW CORNERS
\$514	Х	2	16'-8''	Х		DIAPHRAGM - VERT NE & SW CORNERS
S515	Х	2	14'-4''	Х		DIAPHRAGM - VERT SE & NW CORNERS
S516	Х	2	12'-2''	Х		DIAPHRAGM - VERT SE & NW CORNERS
S51 <b>7</b>	Х	20	17'-4''	Х		DIAPHRAGM - VERT.
S518	Х	108	8'-0''	Х		DIAPHRAGM/DECK - VERT.
5519	Х	30	4'-5''	Х		PARAPET - VERT DECK
S520	Х	44	5'-2''	Х		PARAPET - VERT DECK/WINGS
\$521	Х	24	4'-5''			PARAPET - HORIZ DECK
\$522	Х	14	5'-10''	Х		PARAPET - VERT WINGS
\$523	X	68	5'-8''	Х		PARAPET - VERT WINGS
\$524	X	48	3'-0''	Х		PARAPET - VERT WINGS
\$525	Х	24	4'-10''	Х		PARAPET - VERT WINGS
\$526	Х	44	4'-7''	Х		PARAPET - VERT WINGS
S52 <b>7</b>	Х	20	9'-8''			PARAPET - HORIZ WINGS
S528	X	4	9'-6''	Х		PARAPET - HORIZ WINGS
\$529	Х	112	6'-8''	Х		WINGS - VERT.
S430	Х	44	9'-8''			WINGS - HORIZ.
5631	Х	8	9'-8''			WINGS - HORIZ TOP
\$432	Х	412	1'-7''	Х		PARAPET RETROFIT - VERT.
S433	Х	412	2'-1"	Х		PARAPET RETROFIT - VERT.
5434	Х	412	2'-8''	Х		PARAPET RETROFIT - VERT.
S435	X	40	42'-5"			PARAPET RETROFIT - HORIZ.







<u>CURB REPAIR DE</u>

NNC.				
REPAIR				
				8
 = T A II	NO. DATE REVISION		ВҮ	
	STATE OF WISCONSI DEPARTMENT OF TRANSPOL STRUCTURES DESIGN STRUCTURE B-8-9 CLEANING PARAPETS & CURB REPAIR	SHEET 9	ETP	SCALE = 1.00





SCALE = 10.00

ENGINEER SHALL DETERMINE LOCATIONS OF DECK REPAIR.					
INSPECTION DATE - NOV/2021					
NO. DATE REVISION	BY				
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION					
STRUCTURE B-8-9					
DRAWN PL/ BY JLR CK'	NS ETP				
DECK	11 -				
SCANS					





N:\PDS\C3D\40856000\SHEETSPLAN\090201-XS.DWG LAYOUT NAME - 090201-xs

PLOT DATE : 2/24/2022 1:29 PM



PLOT DATE : 2/24/2022 1:29 PM



N:\PDS\C3D\40856000\SHEETSPLAN\090201-XS.DWG LAYOUT NAME - 090203-xs

<sup>2/24/2022 1:29</sup> PM





N:\PDS\C3D\40856000\SHEETSPLAN\090201-XS.DWG LAYOUT NAME - 090205-xs

PLOT DATE : 2/24/2022 1:29 PM



PLOT DATE : 2/24/2022 1:29 PM

## Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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