

WITH:

2718-00-78

VINCE DIFRANCES

_	FEDERAL PROJECT					
STATE PROJECT	Pł	ROJECT	CONTRACT			
2718-00-73						
2718-00-78	WISC	2024327	1			
RELAND E 3-67-205 ET	BLVD		H			
	A	CCEPTED FOR				
		OF WAUKE	SHA			
	date: <u>125/24</u>	(Signature and	Title of Official)			
	ORIGINAL	PLANS PREPAR	RED BY			
ΞB'		NGINEERING, onsultantServ SCONS/				
	PROFESSI	VINCENT J. DIFRANCES E-45790 MILWAUKEE WI ONAL EN				
	DATE: 2/1/2024		er Signature)			
	DEPARTMEN	T OF TRANSPO	RTATION			
	PREPARED BY Surveyor Designer Project Manager Regional Examiner Regional Supervisor	JT ENGINEERI JT ENGINEERI JOSEPH JELA BRIAN BOOTH	<u>NG, INC.</u> NG, INC. CIC, P.E. 1BY, P.E.			
IN INTY, GRID JISTANCES	APPROVED FOR THE DEPARTM	Joseph Jelacic	igned by Jaseph Jelacki Saloodalahd ei gav, In Jasoci A G2 11 11 32 42 06007			
VED		(Signature)	E			

UTILITIES CONTACTS

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES

PLAN DETAILS

TYPICAL SECTIONS CONSTRUCTION DETAILS

EROSION CONTROL

PAVEMENT MARKING TRAFFIC CONTROL

CITY OF WAUKESHA WATER UTILITY CHRIS WALTER, P.E. 115 DELAFIELD STREET WAUKESHA, WI 53188 PHONE: (262) 409-4460 (O) / (262) 901-5886 (M) EMAIL: CWALTER@WAUKESHA-WATER.COM

CITY OF WAUKESHA TRAFFIC SIGNALS DERRIN WOLFORD, P.E. 201 DELAFIELD STREET WAUKESHA, WI 53188 PHONE: (262) 524-3590 (O) / (262) 349-5629 (M) EMAIL: DWOLFORD@WAUKESHA-WI.GOV

CHARTER COMMUNICATIONS COMMUNICATION LINE NEAL LONG 1320 N. MARTIN LUTHER KING JR. DR WAUKESHA, WI 53188 PHONE: (414)-277-4271 (O); (414)-277-7189 (M) EMAIL: NEAL.LONG@CHARTER.COM OR WIS.ENGINEERING@CHARTER.COM

WE ENERGIES **ELECTRIC** FRIC KICKHAVER 333 W. EVERETT STREET, A279 MILWAUKEE, WI 53203 PHONE: 414-944-5917 (O); 414-588-7472 (M) EMAIL: ERIC.KICKHAVER@WE-ENERGIES.COM

WE ENERGIES GAS/PETROLEUM JOE DABLE 500 S. 116TH STREET WEST ALLIS, WI 53214 PHONE: 414-944-5543 (O); 414-303-0310 (M) EMAIL: JOE.DABLE@WE-ENERGIES.COM

CITY OF WAUKESHA STREET LIGHTS & COMMUNICATION LINE JEFF HERNKE 500 S. 116TH STREET WEST ALLIS, WI 53214 PHONE: 262-524-3598 (O); 262-336-5742 (M) EMAIL: JHERNKE@WAUKESHA-WI.GOV

WISCONSIN DNR LIAISON

CRAIG WEBSTER SE REGION 141 NW BARSTOW ST WAUKESHA, WI 53095 PHONE: (262) 574-2141 EMAIL: CRAIG.WEBSTER@WISCONSIN.GOV

CITY OF WAUKESHA CONTACT

CRAIG AUSEN, P.E. CITY ENGINEER 201 DELAFIELD ST WAUKESHA, WI 53188 PHONE: (262) 524-3589 EMAIL: CAUSEN@WAUKESHA-WI.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION GEODETIC SERVICES

JACOB ROCKWEILER, P.E. SURVEY & MAPPING WORK PHONE: 608-243-5992 EMAIL: JACOB.ROCKWEILER@DOT.WI.GOV **GENERAL NOTES**

SHOWN.

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

RIGHT OF WAY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE.

THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.

TOPSOIL SHALL BE PLACED 1-INCH BELOW THE TOP OF ADJACENT CONCRETE CURBS OR SIDEWALKS.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

RESTRICT REMOVAL OF VEGETATIVE COVER AND EXPOSURE OF BARE GROUND TO THE MINIMUM NECESSARY TO COMPLETE CONSTRUCTION. RESTORATION/STABILIZATION OF DISTURBED AREAS SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS OR PROTECTED AND STABILIZED WITHIN 4 CALENDAR DAYS OF DISTURBANCE. TOPSOIL GRADED AREAS IMMEDIATELY AFTER GRADING IS COMPLETED. SEED. FERTILIZE, AND EROSION MAT TOPSOILED AREAS, AS DESIGNATED IN THE PLANS, WITHIN 4 CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL.

AGGREGATE

PLACE EROSION MAT OVER ALL SEEDED AREAS WITHIN THE PROJECT.

THE ENGINEER

INLET ELEVATIONS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS

THE PROPOSED SHOULDER WIDTH SHOWN IN THE TYPICAL SECTIONS ARE MINIMUM WIDTH. PERPETUATE EXISTING SHOULDERS THAT ARE WIDER THAN WHAT IS SHOWN IN THE TYPICAL SECTIONS.

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

SAWCUTS, AS SHOWN ON THE PLANS, ARE SUGGESTED LOCATIONS AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER TO BETTER SUIT FIELD CONDITIONS.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT WHEN PAVING OR PIPE LAYING OPERATIONS REQUIRE THE DRIVEWAY TO BE CLOSED. ACCESS TO DRIVEWAYS SHALL BE RE-ESTABLISHED IMMEDIATELY AFTER OPERATIONS ARE COMPLETED. ACCESS SHALL BE PROVIDED DURING ALL NON-WORKING HOURS.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

PRIOR TO ORDERING DRAINAGE PIPES, THE CONTRACTOR SHALL FIELD VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN WITH THE ENGINEER.

BEARINGS SHOWN ON THE PLAN ARE TRUE BEARINGS.

BEARINGS SHOWN ON THE PLAN ARE GROUND BEARINGS TO THE NEAREST SECOND

AREAS WETLANDS OR WATERWAYS

DO NOT PLACE FERTILIZER 20 FEET NEAR WETLAND OR WATER BODY

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
	А			В		С		D				
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT) SLOPE R		RANGE	(PERCENT)	SLOPE RANGE (PERCEN		(PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS:	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIPTURF:	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
			.25			.27			.28			.30
SIDE SLOPETORF.			.32			.34			.36			.38
PAVEMENT:												
ASPHALT:						.70 -	95					
CONCRETE:						.80	95					
BRICK:						.70 -	80					
DRIVES, WALKS:						.75	85					
ROOFS:						.75	95					
GRAVEL ROADS, SHOULDERS:						.40 -	60					
TOTAL PROJECT AREA = <u>1.2</u>	LACF	RES ED BY C	ONSTRUCTIO	N ACTI	/ITIFS =	0.13 AC	RFS					

HWY: LOCAL ROAD - E MORELAND BLVD



www.DiggersHotline.com

GENERAL NOTES

X:\PROJECTS\WAUKESHA\230021 E. MORELAND ROAD. FOX RIVER BRIDGE\DESIGN\C3D\SHEETSPLAN\020101-GN.DWG FILE NAME : LAYOUT NAME - 01

2718-00-73/78

PROJECT NO:

PLOT DATE : 3/14/2024 4:09 PM

COUNTY: WAUKESHA

PLOT BY : VINCE DIFRANCES

PLOT NAME

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

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

ALL DISTURBED AREAS WITHIN 200 FEET OF THE FOX RIVER SHALL BE TEMPORARY OR PERMANENTLY SEEDED AND COVERED WITH EROSION MAT WITHIN ONE CALENDAR DAY OF THE GROUND DISTURBING ACTIVITY. TEMPORARY SEED SHALL BE PLACED ON ALL SURFACES BEYOND THE SIDEWALK AND PREPARED BASE

PAVEMENT REMOVAL WILL BE TO THE NEAREST JOINT OR A SAWED EDGE WILL BE REQUIRED AS DIRECTED BY

DO NOT DRIVE OR STORE EQUIPMENT. OR STORE CONSTRUCTION MATERIALS IN ENVIRONMENTALLY SENSITIVE

E





FINISHED TYPICAL SECTION NOTE:

2

FINISHED CONCRETE PAVEMENT IS SHOWN ACROSS LANES FOR A FINISHED VISUAL REFERENCE ONLY.

REPLACE CONCRETE PANELS AS INDICATED ON THE PLAN DETAIL SHEET ONLY OR AS DIRECTED BY THE ENGINEER.



FILE NAME : X:\PROJECTS\WAUKESHA\230021 E. MORELAND ROAD, FOX RIVER BRIDGE\DESIGN\C3D\SHEETSPLAN\020301-TS.DWG LAYOUT NAME - 01-10ft

PLOT DATE : 1/29/2024 2:18 PM PLOT BY : ADAM SARAUER

PLOT NAME

WISDOT/CADDS SHEET 42



PROJECT NO: 2718-00-73/78	HWY: LOCAL ROAD - E MORELAND BLVD	COUNTY: WAUKESHA		CONSTRUCTION	DETAILS - REM	OVE AND RESETTING F	'ED
FILE NAME : X:\PROJECTS\WAUKESHA\230021 E. MORELAND ROAD, FOX RIVER BRIDGE	\DESIGN\C3D\SHEETSPLAN\021001-CD.DWG	PLOT DATE :	2/1/2024 9:49 AM	PLOT BY :	ADAM SARAUER	PLOT NAME :	

RAILING

- CONCRETE SIDEWALK 5-INCH

Ε



FILE NAME : X:\PROJECTS\WAUKESHA\230021 E. MORELAND ROAD, FOX RIVER BRIDGE\DESIGN\C3D\SHEETSPLAN\021201-PD.DWG LAYOUT NAME - 01 PLOT DATE : 2/26/2024 9:13 PM

PLOT BY : ADAM SARAUER

PLOT NAME



FILE NAME : X:\PROJECTS\WAUKESHA\230021 E. MORELAND ROAD, FOX RIVER BRIDGE\DESIGN\C3D\SHEETSPLAN\022001-EC.DWG LAYOUT NAME - 01 PLOT DATE :

11/28/2023 12:11 PM PLOT BY : ADAM SARAUER

PLOT NAME :



ADAM SARAUER PLOT BY :

WISDOT/CADDS SHEET 42



PLOT DATE : 1/29/2024 2:43 PM

PLOT BY : ADAM SARAUER PLOT NAME :



PLOT BY : ADAM SARAUER

PLOT NAME :

WISDOT/CADDS SHEET 42



HWY: LOCAL ROAD - E MORELAND BLVD COUNTY: WAUKESHA

FILE NAME : X:\PROJECTS\WAUKESHA\230021 E. MORELAND ROAD, FOX RIVER BRIDGE\DESIGN\C3D\SHEETSPLAN\025100-TC-S1.DWG LAYOUT NAME - 01

PROJECT NO:

2718-00-73/78

TRAFFIC CONTROL - STAGE 1
PLOT BY : ADAM SARAUER

PLOT NAME :





FILE NAME : X:\PROJECTS\WAUKESHA\230021 E. MORELAND ROAD, FOX RIVER BRIDGE\DESIGN\C3D\SHEETSPLAN\025100-TC-S1.DWG LAYOUT NAME - 02 PLOT DATE : 1/29/2024 2:45 PM

PLOT BY : ADAM SARAUER

PLOT NAME :



WISDOT/CADDS SHEET 42



FILE NAME : X:\PROJECTS\WAUKESHA\230021 E. MORELAND ROAD, FOX RIVER BRIDGE\DESIGN\C3D\SHEETSPLAN\025100-TC-S3.DWG LAYOUT NAME - 01 PLOT DATE : 1/29/2024 2:46 PM

PLOT BY : ADAM SARAUER

PLOT NAME :

WISDOT/CADDS SHEET 42



FILE NAME : X:\PROJECTS\WAUKESHA\230021 E. MORELAND ROAD, FOX RIVER BRIDGE\DESIGN\C3D\SHEETSPLAN\024501-PM.DWG LAYOUT NAME - 01 PLOT DATE : 1/29/2024 2:33 PM

PERMANENT PAVEMENT MARKING PLOT BY : ADAM SARAUER

PLOT NAME :

		Estimate Of Quantities									
					2718-00-73	2718-00-78					
Line	Item	Item Description	Unit	Total	Qty	Qty					
0002	201.0205	Grubbing	STA	2.000	2.000						
0004	203.0250	Removing Structure Over Waterway Remove Debris (structure) 01. B-67-248	EACH	1.000	1.000						
006	203.0250	Removing Structure Over Waterway Remove Debris (structure) 02. B-67-205	EACH	1.000		1.000					
800	204.0100	Removing Concrete Pavement	SY	198.000	51.000	147.000					
010	204.0150	Removing Curb & Gutter	LF	33.000	9.000	24.000					
012	204.0155	Removing Concrete Sidewalk	SY	140.000	65.000	75.000					
014	206.1001	Excavation for Structures Bridges (structure) 01. B-67-248	EACH	1.000	1.000						
016	206.1001	Excavation for Structures Bridges (structure) 02. B-67-205	EACH	1.000		1.000					
018	206.5001	Cofferdams (structure) 01. B-67-248	EACH	1.000	1.000						
020	206.5001	Cofferdams (structure) 02. B-67-205	EACH	1.000		1.000					
022	211.0201	Prepare Foundation for Concrete Pavement (project) 01. 2718-00-73	EACH	1.000	1.000						
024	211.0201	Prepare Foundation for Concrete Pavement (project) 02. 2718-00-78	EACH	1.000		1.000					
026	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	35.000	10.000	25.000					
028	415.0090	Concrete Pavement 9-Inch	SY	63.000		63.000					
030	415 0410	Concrete Pavement Approach Slab	SY	136 000	52 000	84 000					
032	416.0610	Drilled Tie Bars	FACH	48 000	8 000	40.000					
002	416.0620		EACH	56,000	24 000	32 000					
0036	502 0100	Concrete Masonry Bridges	CY	82 000	40.000	42 000					
038	502.0100	Protective Surface Treatment	SV	205.000	40.000	205.000					
030	502.3200	Adhosivo Anchors No. 6 Bar	EACH	276 000	138 000	138,000					
040	505.4200	Por Stool Poinforcement HS Structures	LACH	12 670 000	6 100 000	6 490 000					
042	500.0400	Bal Steel Reinfoldement in Structures	LD	12,070.000	6,190.000	6,460.000					
044	509.0301	Preparation Decks Type 1	51 SV	12.000	0.000	0.000					
040	509.0302	Source Development Deals Properation Areas	51	2.000	1.000	25.000					
040	509.0310.3	Sawing Favement Deck Freparation Areas		70.000	35.000	35.000					
050	509.1200	Curb Repair		30.000	10.000	20.000					
052	509.1500	Concrete Sunace Repair	SF	185.000	4 055 000	185.000					
054	517.1015.5	Concrete Staining Multi-Color (structure) 01. B-67-248	SF	1,255.000	1,255.000	4 070 000					
056	517.1015.5	Concrete Staining Multi-Color (structure) 02. B-67-205	SF	1,370.000		1,370.000					
058	517.1050.S	Architectural Surface Treatment (structure) 01. B-67-248	SF	1,129.000	1,129.000						
060	517.1050.S	Architectural Surface Treatment (structure) 02. B-67-205	SF	1,181.000		1,181.000					
062	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	70.000	20.000	50.000					
064	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	89.000	29.000	60.000					
066	602.0410	Concrete Sidewalk 5-Inch	SF	1,335.000	580.000	755.000					
068	611.8115	Adjusting Inlet Covers	EACH	5.000	3.000	2.000					
070	619.1000	Mobilization	EACH	1.000	0.500	0.500					
072	624.0100	Water	MGAL	0.700	0.200	0.500					
074	625.0100	Topsoil	SY	619.000	294.000	325.000					
076	628.2008	Erosion Mat Urban Class I Type B	SY	619.000	294.000	325.000					
078	628.7015	Inlet Protection Type C	EACH	12.000	7.000	5.000					
080	629.0210	Fertilizer Type B	CWT	0.400	0.200	0.200					
082	630.0130	Seeding Mixture No. 30	LB	11.500	5.500	6.000					
084	630.0500	Seed Water	MGAL	14.000	7.000	7.000					
086	642.5001	Field Office Type B	EACH	1.000	0.500	0.500					
088	643.0300	Traffic Control Drums	DAY	5,596.000	2,548.000	3,048.000					
090	643.0420	Traffic Control Barricades Type III	DAY	1,068.000	688.000	380.000					
092	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	7.000		7.000					
094	643.0705	Traffic Control Warning Lights Type A	DAY	744.000	336.000	408.000					
096	643.0715	Traffic Control Warning Lights Type C	DAY	756.000	252.000	504.000					
098	643.0800	Traffic Control Arrow Boards	DAY	154.000	42.000	112.000					
100	643.0900	Traffic Control Signs	DAY	2,412.000	796.000	1.616.000					
			<i></i>	_,		.,					

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		Estimate Of Quantities							
					2718-00-73	2718-00-78			
Line	Item	Item Description	Unit	Total	Qty	Qty			
0102	643.0910	Traffic Control Covering Signs Type I	EACH	2.000		2.000			
0104	643.3150	Temporary Marking Line Removable Tape 4-Inch	LF	1,952.000	782.000	1,170.000			
0106	643.3250	Temporary Marking Line Removable Tape 8-Inch	LF	120.000	70.000	50.000			
0108	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	24.000	12.000	12.000			
0110	643.5000	Traffic Control	EACH	1.000	0.500	0.500			
0112	646.1020	Marking Line Epoxy 4-Inch	LF	430.000	330.000	100.000			
0114	646.3020	Marking Line Epoxy 8-Inch	LF	1,075.000	1,075.000				
0116	646.5020	Marking Arrow Epoxy	EACH	6.000	6.000				
0118	646.5120	Marking Word Epoxy	EACH	3.000	3.000				
0120	646.6120	Marking Stop Line Epoxy 18-Inch	LF	68.000	68.000				
0122	646.9000	Marking Removal Line 4-Inch	LF	75.000		75.000			
0124	646.9100	Marking Removal Line 8-Inch	LF	558.000		558.000			
0126	650.8000	Construction Staking Resurfacing Reference	LF	800.000	400.000	400.000			
0128	650.9911	Construction Staking Supplemental Control (project) 01. 2718-00-73	EACH	1.000	1.000				
0130	650.9911	Construction Staking Supplemental Control (project) 02. 2718-00-78	EACH	1.000		1.000			
0132	690.0250	Sawing Concrete	LF	485.000	240.000	245.000			
0134	715.0502	Incentive Strength Concrete Structures	DOL	1,000.000	500.000	500.000			
0136	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	1,000.000	500.000	500.000			
0138	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	400.000	400.000				
0140	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	900.000	900.000				
0142	SPV.0035	Special 01. Rapid Set Deck Repair	CY	2.000	1.000	1.000			
0144	SPV.0090	Special 01. Cleaning and Sealing Joints With Hot-Applied Sealant	LF	122.000	122.000				
0146	SPV.0090	Special 02. Joint Sealant Sidewalk	LF	90.000	54.000	36.000			
0148	SPV.0090	Special 03. Removing and Resetting Pedestrian Railing B-67-205	LF	190.000		190.000			
0150	SPV.0090	Special 04. Removing and Resetting Pedestrian Railing	LF	82.000		82.000			
0152	SPV.0090	Special 05. Removing and Resetting Decorative Fence	LF	62.000		62.000			
0154	SPV.0180	Special 01. Methacrylate Flood Seal	SY	2,240.000	1,465.000	775.000			

03/11/2024 14:47:13

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REMOVING CONCRETE PAVEMENT

<u>GRUBBING</u>

STA	ТО	STA	LOCATION	201.0205 GRUBBING STA									
PROJECT ID	2/10-0	<u>0-75</u>											
CAT 0010													
121+00'WI	B' - 11	22+00'WB'	LT	1									
123+00'WI	B' - 12	24+00'WB'	LT	1									
CAT C	010 TO	TALS		2									
CONTRACT	TOTAL			2									

STA	TO	STA	LOCATION
PROJECT ID	<u>2718</u> -	<u>-00-78</u>	
CAT 0010			
120+94'EB	' -	121+24'EB'	EB E. MORELAND BLVD
121+24'EB	-	121+44'EB'	EB E. MORELAND BLVD
123+33'EB	' -	123+45'EB'	EB E. MORELAND BLVD
CAT 0010 T	OTALS		
PROJECT ID CAT 0010	<u>2718</u> .	<u>-00-73</u>	
121+23'WB	5' -	121+43'WB'	WB E. MORELAND BLVD
CAT 0010 T	DTALS		

CONTRACT TOTAL

REMOVING SIDEWALK

REMOVING CURB & GUTTER			
	204.0150 REMOVING CURB & GUTTER	STA TO STA LOCATION	204.0155 REMOVING CONCRETE SIDEWALK SY
PROJECT ID 2718-00-78		PROJECT ID 2718-00-78 CAT 0010	
CAT 0010 121+00'EB' - 121+24'EB' EB E. MORELAND BLVD 123+45'EB' - 123+40'EB' EB E. MORELAND BLVD	20	121+04'EB' - 121+44'EB' EB E. MORELAND BLVD 123+34'EB' - 123+83'EB' EB E. MORELAND BLVD	34 41
CAT 0010 TOTALS	24	CAT 0010 TOTALS	75
PROJECT ID 2718-00-73 CAT 0010		PROJECT ID 2718-00-73 CAT 0010	
123+56'WB' - 123+65'WB' WB E. MORELAND BLVD	9	121+03'WB' - 121+44'WB' WB E. MORELAND BLVD 123+33'WB' - 123+72'WB' WB E. MORELAND BLVD	32 33
CAT 0010 TOTALS	9	CAT 0010 TOTALS	65
CONTRACT TOTAL	33	CONTRACT TOTAL	140

3

COUNTY: WAUKESHA

MISCELLANEOUS QUANTITIES

204.0100
REMOVING CONCRETE
PAVEMENT
SY
63
53
31
147
۲1
51
51
198

PREPARE FOUNDATION FOR CONCRETE PAVEMENT						CONC	RETE PAVEMENT		
		211.02 PREPARE FOU FOR CONCRETE (2718-0	201 UNDATION E PAVEMENT 10-78)	STA TO	STA	LOCATION	415.0090 CONCRETE PAVEMEN 9-INCH SY	416.0610 JT DRILLED TIE BARS EA	416.0620 DRILLED DO BARS EA
	LOCATION	N EAC	H	PROJECT ID 2718-00-	<u>-78</u>				
<u>PROJECT ID 2718-00-7</u> CAT 0010	<u>78</u>			CAT 0010				25	10
	EB E. MORELANI	ID BLVD 1		120+94 EB - 12 123+33'EB' - 12	21+25 EB EB E 23+48'EB' EB E	. MORELAND BLV . MORELAND BLV	/D 63	25 15	16 16
	79 TOTAL	1							
PROJECT ID 2718-00-7		I		CAT 0010 TOTALS			63	40	32
PRE	PARE FOUNDATION FOR C	CONCRETE PAVEMENT		PROJECT ID 2718-00- CAT 0010	<u>-73</u>				
		211.02	201	121+23'WB' - 12	1+35'WB' WB E	E. MORELAND BL	VD	8	24
		PREPARE FOU FOR CONCRETE	UNDATION E PAVEMENT	CAT 0010 TOTALS				8	24
	LOCATION	N EAC	H	CONTRACT TOTAL			63	48	56
PROJECT ID 2718-00-7	WB E. MORELAN	ND BLVD 1							
PROJECT ID 2718-00-7	WB E. MORELAN	ND BLVD 1				CONCRETE	PAVEMENT APPROACH SL	ABS	
PROJECT ID 2718-00-7	WB E. MORELAN	ND BLVD 1 1 DENSE 305.0120	624.0100			<u>CONCRETE</u>	PAVEMENT APPROACH SL	<u>ABS</u> 415.0410 CONCRETE PAVEN APPROACH SLA	MENT ABS
PROJECT ID 2718-00-7	WB E. MORELAN 73 BASE AGGREGATE	DENSE 305.0120 BASE AGGREGATE	624.0100 WATER		STA	CONCRETE	PAVEMENT APPROACH SL	ABS 415.0410 CONCRETE PAVEN APPROACH SLA SY	MENT ABS
PROJECT ID 2718-00-7	WB E. MORELAN 73 BASE AGGREGATE	DENSE 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL		STA	CONCRETE TO STA 18-00-78	PAVEMENT APPROACH SL	ABS 415.0410 CONCRETE PAVEN APPROACH SLA SY	MENT ABS
PROJECT ID 2718-00-7	WB E. MORELAN	DENSE 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL		<u>STA</u> PROJECT ID 27 CAT 0010 121+24'EB'	<u>CONCRETE</u> TO STA 18-00-78 - 121+44'EB'	PAVEMENT APPROACH SL LOCATION EB E. MORELAND BLVD	ABS 415.0410 CONCRETE PAVEN APPROACH SLA SY 53	VIENT ABS
PROJECT ID 2718-00-7 ROJECT ID 2718-00-78 AT 0010	WB E. MORELAN	DENSE 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL		<u>STA</u> PROJECT ID 27 CAT 0010 121+24'EB' 123+33'EB'	CONCRETE TO STA 18-00-78 - 121+44'EB' - 123+45'EB'	PAVEMENT APPROACH SL LOCATION EB E. MORELAND BLVD EB E. MORELAND BLVD	ABS 415.0410 CONCRETE PAVEN APPROACH SLA SY 53 31	MENT ABS
PROJECT ID 2718-00-7 ROJECT ID 2718-00-78 AT 0010	WB E. MORELAN	DENSE 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON 25 25	624.0100 WATER MGAL 0.5		STA PROJECT ID 27 CAT 0010 121+24'EB' 123+33'EB' CAT 0010 TOTA	CONCRETE TO STA 18-00-78 - 121+44'EB' - 123+45'EB' ALS	PAVEMENT APPROACH SL LOCATION EB E. MORELAND BLVD EB E. MORELAND BLVD	ABS 415.0410 CONCRETE PAVEI APPROACH SLA SY 53 31 84	MENT ABS
PROJECT ID 2718-00-7 ROJECT ID 2718-00-78 AT 0010 AT 0010 TOTALS	WB E. MORELAN	DENSE 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON 25 25	624.0100 WATER MGAL 0.5 0.5		<u>STA</u> PROJECT ID 27 CAT 0010 121+24'EB' 123+33'EB' CAT 0010 TOTA PROJECT ID 27 CAT 2012	CONCRETE TO STA 18-00-78 - 121+44'EB' - 123+45'EB' ALS 18-00-73	PAVEMENT APPROACH SL LOCATION EB E. MORELAND BLVD EB E. MORELAND BLVD	ABS 415.0410 CONCRETE PAVEI APPROACH SLA SY 53 31 84	MENT ABS
PROJECT ID 2718-00-7 ROJECT ID 2718-00-78 AT 0010 AT 0010 TOTALS ROJECT ID 2718-00-73 AT 0010	WB E. MORELAN	DENSE 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON 25 25	624.0100 WATER MGAL 0.5 0.5		STA PROJECT ID 27 CAT 0010 121+24'EB' 123+33'EB' CAT 0010 TOTA PROJECT ID 27 CAT 0010	CONCRETE TO STA 18-00-78 - 121+44'EB' - 123+45'EB' ALS 18-00-73	EB E. MORELAND BLVD EB E. MORELAND BLVD	ABS 415.0410 CONCRETE PAVEI APPROACH SL/ SY 53 31 84	MENT ABS
PROJECT ID 2718-00-7 PROJECT ID 2718-00-78 CAT 0010 TOTALS PROJECT ID 2718-00-73 CAT 0010	WB E. MORELAND	ND BLVD 1 1 DENSE 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON 25 25 10	624.0100 WATER MGAL 0.5 0.5		STA PROJECT ID 27 CAT 0010 121+24'EB' 123+33'EB' CAT 0010 TOTA PROJECT ID 27 CAT 0010 121+23'WB' CAT 0010 TOTA	CONCRETE TO STA 18-00-78 - 121+44'EB' - 123+45'EB' ALS 18-00-73 - 121+43'WB'	PAVEMENT APPROACH SL LOCATION EB E. MORELAND BLVD EB E. MORELAND BLVD WB E. MORELAND BLVD	ABS 415.0410 CONCRETE PAVEI APPROACH SL/ SY 53 31 84 52 52	VIENT ABS
PROJECT ID 2718-00-7 PROJECT ID 2718-00-78 CAT 0010 TOTALS PROJECT ID 2718-00-73 CAT 0010 CAT 0010 CAT 0010 CAT 0010	WB E. MORELAND BASE AGGREGATE I LOCATION EB E. MORELAND BLVD WB E. MORELAND BLVD	ND BLVD 1 J 1 J 305.0120 BASE AGGREGATE 25 25 25 10 10	624.0100 WATER MGAL 0.5 0.5 0.2 0.2		STA PROJECT ID 27 CAT 0010 121+24'EB' 123+33'EB' CAT 0010 TOT/ PROJECT ID 27 CAT 0010 121+23'WB' CAT 0010 TOT/	CONCRETE TO STA 18-00-78 - 121+44'EB' - 123+45'EB' ALS 18-00-73 - 121+43'WB' ALS	EB E. MORELAND BLVD EB E. MORELAND BLVD WB E. MORELAND BLVD	ABS 415.0410 CONCRETE PAVEI APPROACH SL/ SY 53 31 84 52 52 52	VIENT ABS
PROJECT ID 2718-00-7 'ROJECT ID 2718-00-78 'AT 0010 'AT 0010 TOTALS 'ROJECT ID 2718-00-73 'AT 0010 'AT 0010 'AT 0010	WB E. MORELAND BASE AGGREGATE I LOCATION EB E. MORELAND BLVD WB E. MORELAND BLVD	ND BLVD 1 J 1 J 1 J 305.0120 BASE AGGREGATE 1 DENSE 1 1/4-INCH 1 TON 25 25 25 10 10 10 10	624.0100 WATER MGAL 0.5 0.5 0.5 0.2 0.2		STA PROJECT ID 27 CAT 0010 121+24'EB' 123+33'EB' CAT 0010 TOTA PROJECT ID 27 CAT 0010 121+23'WB' CAT 0010 TOTA PROJECT ID 27 CAT 0010 121+23'WB' CAT 0010 TOTA	CONCRETE TO STA 18-00-78 - 121+44'EB' - 123+45'EB' ALS 18-00-73 - 121+43'WB' ALS TAL	EB E. MORELAND BLVD EB E. MORELAND BLVD EB E. MORELAND BLVD	ABS 415.0410 CONCRETE PAVER APPROACH SL/ SY 53 31 84 52 52 52 136	MENT ABS

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2	CONCRETE ITEMS			ADJUSTING INLET	ADJUSTING INLET COVERS		
STA TO STA LOCATION	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	604.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	604.0410 CONCRETE SIDEWALK 5-INCH SY	STA	OFFSET	611.8115 ADJUSTING INLET COVERS LF	
PROJECT ID 2718-00-78 CAT 0010				PROJECT ID 2718-00-78 CAT 0010			
120+95'EB' LT - 121+44'EB' LT EB E. MORELAND BLVD	50			121+26'EB' RT	12' RT	1	
121+00'EB' RT - 121+44'EB' RT EB E. MORELAND BLVD		44		121+26'EB' LT	12' LT	1	
121+25'EB' LT - 121+44'EB' LT EB E. MORELAND BLVD			85			2	
121+04'EB RT - 121+44'EB' RT EB E. MORELAND BLVD			305			2	
123+34'EB' RT - 123+50'EB' RT EB E. MORELAND BLVD		16		PRO IFCT ID 2718-00-73			
123+34'EB' RT - 123+83'EB' RT EB E. MORELAND BLVD			365	CAT 0010			
CAT 0010 TOTALS	50	60	755				
				121+26'WB' LT	24' LT	1	
PROJECT ID 2718-00-73				121+26'WB' RT	12' RT	1	
CAT 0010				123+61'WB' LT	24' LT	1	
			200	CAT 0010 TOTALS		3	
121+03 WB LI - 121+44 WB LI WB E. MORELAND BLVD			290				
121+24 WB LI - 121+44 WB LI WB E. MORELAND BLVD		20		CONTRACT TOTAL		5	
121+24 WB RI - 121+44 WB RI WB E. MORELAND BLVD	20						
123+34 WB LI - 123+72 WB LI WB E. MORELAND BLVD		9					
123+56 WB LI - 123+65 WB LI WB E MORELAND BLVD			290				
CAT 0010 TOTALS	20	29	580				
	70	80	1 225	FIELD OFFIC	<u>Е</u>		
	70	03				FIELD OFFICE TYPE B	

MOBLIZA	TION
IOCATI	619.1000 MOBILIZATION ON FACH
ROJECT ID 2718-00-78 AT 0010	
EB E. MOREL/	AND BLVD 0.5
ROJECT ID 2718-00-78 TOTAL	0.5
ROJECT ID 2718-00-73 CAT 0010	
WB E. MOREL	AND BLVD 0.5
	0.5

PROJECT NUMBER: 2718-00-73/78	HWY: E MORELAND BLVD	COUNTY: WAUKESHA	MISCELLANEOUS QUANTITIES

ADJUSTING INLET COVERS

LOCATION	FIELD OFFICE TYPE B 642.5001 EACH	
3 E. MORELAND BLVD	0.5	
	0.5	
B E. MORELAND BLVD	0.5	
	0.5	

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EROSION CONTROL

			628.7015	
			INLET PROTECTION	
	STA/OEESET		TYPE C	
	STAJOFFSET	LOCATION	EACH	TRAFFIC CONTROL
ROJECT ID 2718-	<u>00-78</u>			
AT 0010				
	120+96'EB' RT EB	B E. MORELAND BLVD	1	LOCATION
	121+26'EB' RT EB	B E. MORELAND BLVD	1	
	121+26'EB' LT EB	B E. MORELAND BLVD	1	<u>18-00-78</u>
	123+76'EB' LT EB	B E. MORELAND BLVD	1	
	123+76'EB' RT EB	B E. MORELAND BLVD	1	EB E. MORELAND BLVD
AT 0010 TOTALS			5	
				18-00-78 TOTAL
ROJECT ID 2718-	<u>00-73</u>			
AT 0010				18-00-73
				<u>10 00 / 3</u>
	121+05'WB' RT WE	B E. MORELAND BLVD	1	
	121+05'WB' LT WE	B E. MORELAND BLVD	1	WB E. MORELAND BLVD
	121+27'WB' LT WE	B E. MORELAND BLVD	1	18-00-73
	121+27'WB' RT WE	B E. MORELAND BLVD	1	
	123+60'WB' LT WE	B E. MORELAND BLVD	1	
	123+76'WB' LT WE	B E. MORELAND BLVD	1	
	123+77'WB' RT WE	B E. MORELAND BLVD	1	
AT 0010 TOTALS			7	

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CONTRACT TOTA	L	619	619	0.4	11.5	14	
CAT 0010 TOTALS	5	294	294	0.2	5.5	7	
121+24'WB' LT	- 121+44'WB' LT WB E. MORELAND BLV	/D 164	164	0.1	3	4	
121+03'WB' IT	- 121+44'WB' IT WB F MORFIAND BIV	۲D 130	130	0 1	2 5	3	
CAT 0010	<u>00-73</u>						
	00.70						
CAT 0010 TOTALS	5	325	325	0.2	6	7	
123+19'EB' RT	- 123+96'EB' RT EB E. MORELAND BLVI	D 149	149	0.1	3	3	
120+36'EB' RT	- 121+17'EB' RT EB E. MORELAND BLVI	D 176	176	0.1	3	4	
CAT 0010							
PROJECT ID 2718	- <u>00-78</u>						
STA	TO STA LOCATION	SY	SY	CWT	LB	MGAL	
		TOPSOU	EROSION MAT URBAN	FERTILIZER TVDE B	SEEDING MIXTURE	SEED	

RESTORATION ITEMS

PROJECT NUMBER: 2718-00-73/78	HWY: E MORELAND BLVD	COUNTY: WAUKESHA	MISCELLANEOUS QUANTITIE

TRAFFIC CONTROL

		643	3.0300	643.0)420	643.0500	64	3.0705	643.0	715	643.0	0080	643	.0900		*643.0910)
				TRA	FIC	TRAFFIC CONTROL	TF	RAFFIC	TRAF	FIC					TR	AFFIC CONT	ROL
		TR	AFFIC	CON	rol	FLEXIBLE TUBULAR	со	NTROL	CONT	ROL	TRA	FIC	TRA	AFFIC	C	OVERING SI	GNS
	APPROXIMATE	со	NTROL	BARRIO	CADES	MARKER	WARN	ING LIGHTS	WARNING	G LIGHTS	CONT	ROL	CON	ITROL		NO. OF	NO. OF
	SERVICE	DF	RUMS	TYPE	E 111	POSTS	т	YPE A	TYPE	EC	ARROW	BOARDS	SI	GNS	ΤΥΡΕ Ι	CYCLES	SIGNS
STAGE	DAYS	EACH	DAYS	EACH	DAYS	EACH	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH		
PROJECT ID 2718-0	<u>)0-78</u>																
CAT 0010																	
1A	8	38	304	2	16		2	16					20	160	1	1	1
1	28	98	2,744	13	364	7	14	392	18	504	4	112	52	1,456	1	1	1
CAT 0010 TOTALS			3,048		380	7		408		504		112		1,616	2		
PROJECT ID 2718-0	<u>)0-73</u>																
CAT 0010																	
1B	8	58	464	16	128		8	64	6	48	1	8	22	176			
2	16	65	1,040	17	272		8	128	6	96	1	16	14	224			
3	18	58	1,044	16	288		8	144	6	108	1	18	22	396			
CAT 0010 TOTALS			2,548		688			336		252		42		796			
CONTRACT TOTAL			5,596		1,068	7		744		756		154		2,412	2		

* One Cycle as shown: Cover sign at beginning of stage or substage to reflect current traffic control confirguration and uncover at end of construction stagE or substage e to reflect current traffic control configuration.

	PROJECT NUMBER: 2718-00-73/78	HWY: E MORELAND BLVD	COUNTY: WAUKESHA	MISCELLANEOUS QUANTITIES
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SHEET E

STAGE	643.3 TEMPO MARKIN REMOVABLE YELLOW LF	3150 DRARY NG LINE TAPE 4-INCH WHITE LF	643.3250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH WHITE LF	643.3850 TEMPORARY MARKING LINE REMOVABLE TAPE 18-INCH WHITE LF	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.910 MARKING REMOVA LINE 8-INCH LF
PROJECT ID 2718-00-78						
CAT 0010						
1A			150			
1	1,170		50	12	75	558
CAT 0010 TOTALS	1,1	70	50	12	75	558
PROJECT ID 2718-00-73						
CAT 0010						
1B						
2	712		70	12		
3		70				
CAT 0010 TOTALS	78	32	70	12		
CONTRACT TOTAL	1.9	52	120	24	75	558

	TRAFFIC	CONTROL	CONT'D
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 PROJECT NUMBER: 2718-00-73/78
 HWY: E MORELAND BLVD
 COUNTY: WAUKESHA
 MISCELLANEOUS QUANTITIES

		SHEET	E
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STA	ТО	STA	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH SOLID-WHITE SKIP-WHITE		646.3020 MARKING LINE EPOXY 8-INCH SOLID-WHITE SKIP-WHITE LF LF		646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF
<u>PROJECT ID 27</u> CAT 0010	<u>18-00-78</u>									
			EB E. MORELAND BLVD		100					
CAT 0010 TOTA	ALS			10	00		-			
PROJECT ID 27	<u>18-00-73</u>									
CAT 0010										
11	NTERSECTIO	ON DUAL LEF	T TURN SKIPS				48			
120+21'WB'	LT - 1	23+84'WB' l	T WB E. MORELAND BLVD	130	100	363				68
121+38'WB' I	RT - 12	23+82'WB' F	RT WB E. MORELAND BLVD			664				
121+38'WB'	RT - 12	23+30'WB' F	RT WB E. MORELAND BLVD		100			6	3	
CAT 0010 TOTALS			33	0	1,0	75	6	3	68	
CONTRACT TOTAL				43	0	1,0	75	6	3	68

PAVEMENT MARKING

PROJECT NUMBER: 2718-00-73/78

MISCELLANEOUS QUANTITIES

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COMMENTS

2 LEFT TURNS, 2 THRU LANE & RIGHT TURN INCLUDES DIAGONAL LINES

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CONSTRUCTION STAKING

		650.8000	650.9911	650.9911
			CONSTRUCTION STAKING	CONSTRUCTION STAKING
		CONSTRUCTION STAKING	SUPPLEMENTAL CONTROL	SUPPLEMENTAL CONTROL
		RESURFACING REFERENCE	(2718-00-78)	(2718-00-73)
	LOCATION	LF	EACH	EACH
PROJECT ID 2718-00-78				
CAT 0010				
	EB E. MORELAND BLVD	400	1	
CAT 0010 TOTALS		400	1	
PROJECT ID 2718-00-73				
CAT 0010				
	WB E. MORELAND BLVD	400		1
CAT 0010 TOTALS		400		1
CONTRACT TOTAL		800	1	1

690.0250 SAWING CONCRETE

LF

245

245

240

240

485

	SALVAGE RAILING AND R	ESET
1		SPV.0090.01 SALVAGE RAILING AND RESET
	PROJECT ID 2718-00-78 CAT 0010	U
	121+00'EB' - 123+49'EB' EB E. MORELAND BLVD	82
	CAT 0010 TOTALS	82
	CONTRACT TOTAL	82
	<u>REMOVE DECORATIVE RAILING /</u>	AND RESET SPV.0090.02 REMOVE DECORATIVE RAILING AND RESET
	STA TO STA LOCATION	LF
	PROJECT ID 2718-00-78	
	CAT 0010	
	CAT 0010 123+50'EB' - 124+00'EB' EB E. MORELAND BLVD	62
	CAT 0010 123+50'EB' - 124+00'EB' EB E. MORELAND BLVD CAT 0010 TOTALS	62

120+94'EB' - 123+45'EB' EB E. MORELAND BLVD

121+23'WB' - 121+43'WB' WB E. MORELAND BLVD

STA TO STA

PROJECT ID 2718-00-78

PROJECT ID 2718-00-73

CAT 0010

CAT 0010

CAT 0010 TOTALS

CAT 0010 TOTALS

CONTRACT TOTAL

<u>SAWING</u>

LOCATION

AGE KAILING AND RESET	AGE	RAILING	AND	RESET
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Standard Detail Drawing List

08A05-20A	INLET COVERS TYPE A, H, A-S, H-S & Z
08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08E10-02	INLET PROTECTION TYPE A, B, C AND D
12A03-10	NAME PLATE (STRUCTURES)
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-11	URBAN DOWELED CONCRETE PAVEMENT
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-23C	PAVEMENT MARKING (TURN LANES)
15C08-23D	PAVEMENT MARKING (TURN LANES)



SDD 08A05-20a

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08D01-23b

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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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SDD 13B02 60

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PAVEMENT SUPERVISOR

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GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES

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

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

DATE

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

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CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES FROM AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

(1) OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTION CONTRACTION JOINTS.

2 SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

(3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4" RADIUS AT FORMED JOINTS.

FORMING CONSTRUCTION JOINTS.

(6) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

GENERAL NOTES

(4) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN

5 INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.

(7) ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8" & ABOVE	1 ¼"	15'

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URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Peter Kemp P.E PAVEMENT SUPERVISOR

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

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

- 2" MIN. 2

NOTE: TYPICALLY LEFT OF CENTER

LINE IN THE -

OF TRAFFIC

JOINT LINE

*6" EDGE LINE (WHITE) -

DIRECTION

 \Box

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(1) Lo (2) M S

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TWO WAY TRAFFIC

ONE WAY TRAFFIC

BLACK LAG

MARKING

SHOULDER

6" EDGE LINE (YELLOW) -

2" MIN. 2

SHOULDER

2

3" 🗐

PERMANENT PAVEMENT MARKING

T

50'

LANE LINE

– MARKING

(WHITE)

SDD 15C08-23a

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GENERAL NOTES

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

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

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

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

3a

C08-2

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SD

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE

/S/ Jeannie Silver STATEWIDE SIGNING AND MARKING ENGINEER

SDD 15C08-23b

2 10" WHITE

DIRECTION OF TRAFFIC

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

MAJOR CROSS STREET

MAJOR CROSS STREET

TWO WAY LEFT TURN LANE

MINOR CROSS STREET

GENERAL NOTES

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

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

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

15C08-23d ۵ SD

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

	STATE PROJECT NUMBER
	2718-00-78
-	
SIGN DAT	Α
OAD:	
N FROM HSI, 2/1/20 N LOADING: F ITORY RATING: F ATING RATING: F DNSIN STANDARD P	24 15-20 15-23 15-39 ERMIT VEHICLE (WIS-SPV): 250 (KIPS)
RIAL PROPERTIES:	
RETE MASONRY:	f' = 4 000 PSI

I.D. 2718-00-08

DATE: 2/1/2024

ON CURB FACE

BILL OF BARS - WING 1

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

	BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
	T601		69	2'-9"			ADHESIVE ANCHORS - VERTICAL
	T502		20	10'-2"			FRONT FACE - HORIZONTAL Ӿ
▲	T503		16	12'-7"		х	FRONT FACE - VERTICAL
	T504		1	20'-2"			FRONT FACE - HORIZONTAL
▲	T505		15	11'-3"		х	FRONT FACE - VERTICAL
	T506		1	30'-2"			FRONT FACE - HORIZONTAL
▲	T507		15	9'-11"		Х	FRONT FACE - VERTICAL
	T508		6	40'-2"			FRONT FACE - HORIZONTAL
▲	T509		30	8'-7"		Х	FRONT FACE - VERTICAL 🗶
	T510		58	8'-10"	Х		PARAPET - VERTICAL
	T511		3	10'-4"	Х		PARAPET - VERT BLOCK OUT
	T812		10	39'-11"			PARAPET - HORIZONTAL
	T513		2	1'-4"			PARAPET - HORIZ BLOCK OUT

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

BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY.

	BAR MARK	NO. REQ'D.	LENGTH
	T503	1 SERIES OF 16	12'-6" TO 12'-8"
	T505	1 SERIES OF 15	11'-2" TO 11'-4"
	T507	1 SERIES OF 15	9'-10" TO 10'-0"
×	T509	2 SERIES OF 15	8'-6" TO 8'-8"

T511

BILL OF BARS - WING 4

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

	BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
	X601		69	2'-9"			ADHESIVE ANCHORS - VERTICAL
	X502		20	10'-2"			FRONT FACE - HORIZONTAL X
	X503		16	12'-8"		х	FRONT FACE - VERTICAL
	X504		1	20'-2"			FRONT FACE - HORIZONTAL
Δ	X505		15	11'-4"		х	FRONT FACE - VERTICAL
	X506		1	30'-2"			FRONT FACE - HORIZONTAL
Δ	X507		15	9'-11"		х	FRONT FACE - VERTICAL
	X508		5	40'-2"			FRONT FACE - HORIZONTAL
Δ	X509		30	8'-7"		х	FRONT FACE - VERTICAL Ӿ
	X510		58	8'-10"	Х		PARAPET - VERTICAL
	X511		3	10'-4"	Х		PARAPET - VERT BLOCK OUT
	X812		10	39'-11"			PARAPET - HORIZONTAL
	X513		2	1'-4"			PARAPET - HORIZ BLOCK OUT

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

BAR SERIES TABLE

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★ AN UNDISTRIBUTED QUANTITY OF BARS IS INCLUDED IN THE BILL OF BARS FOR VARIATIONS IN FACING HEIGHT AND STONE SHELF ELEVATION. LAP 1'-9" MIN. AS NEEDED WITH BARS SHOWN.

	STATE PROJECT NUMBER
	2718-00-73
DESIGN DATA	
LIVE LOAD:	
TAKEN FROM HSI, 2/1/2024 DESIGN LOADING: HS-2 INVENTORY RATING: HS-3 OPERATING RATING: HS-3 WISCONSIN STANDARD PERM	20 19 32 MIT VEHICLE (WIS-SPV): 250 (KIPS)
MATERIAL PROPERTIES:	
CONCRETE MASONRY: ALL	f'_c = 4,000 PSI
BAR STEEL REINFORCEMENT GRADE 60	
E. MORELAND BLVD ADT = 18,700 (2024) ADT = 18,700 (2044) R.D.S. = 25 MPH	
LIST OF DRAW 1. GENERAL PLAN AND ELEV 2. CROSS SECTION, NOTES, J 3. WING 2 FACING REPAIR 4. WING 3 FACING REPAIR 5. WING DETAILS	TINGS: ATION AND QUANTITIES
LEGEND	
(X) INDICATES WING WALL	NUMBER
F. FIXED BEARING	
S.E. SEMI-EXPANSION BEAR	ING
☆ ELEVATIONS ARE BASED CONSTRUCTION PLANS CONVERTED FROM CITY TO NAVD 88 (2012).	ON ORIGINAL AND HAVE BEEN Y OF WAUKESHA DATUM
SIN IN	

I.D. 2718-00-08

DATE: 2/1/2024

STRUCTURE	B-67-24	18	
	DRAWN BY	PLANS VJD CK'D	CJM
CROSS SECTI	ON,	SHEET 2 OF S	5
NOTES, AN	D		
QUANTITIE	S		

BILL OF BARS - WING 2

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

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
W601		69	2'-9"			ADHESIVE ANCHORS - VERTICAL
W502		20	9'-8"			FRONT FACE - HORIZONTAL Ӿ
W503		2	8'-8"			FRONT FACE - VERTICAL
W504		14	12'-2"			FRONT FACE - VERTICAL
W505		1	19'-8"			FRONT FACE - HORIZONTAL
W506		15	10'-11"			FRONT FACE - VERTICAL
W507		1	29'-8"			FRONT FACE - HORIZONTAL
W508		15	9'-9"			FRONT FACE - VERTICAL
W509		5	39'-8"			FRONT FACE - HORIZONTAL
W510		30	8'-6"			FRONT FACE - VERTICAL 🗶
W511		59	8'-10"	х		PARAPET - VERTICAL
W812		10	38'-3"			PARAPET - HORIZONTAL

BILL OF BARS - WING 3

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

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
R601		69	2'-9"			ADHESIVE ANCHORS - VERTICAL
R502		20	9'-8"			FRONT FACE - HORIZONTAL X
R503		2	8'-7"			FRONT FACE - VERTICAL
R504		14	12'-1"			FRONT FACE - VERTICAL
R505		1	19'-8"			FRONT FACE - HORIZONTAL
R506		15	10'-10"			FRONT FACE - VERTICAL
R507		1	29'-8"			FRONT FACE - HORIZONTAL
R508		15	9'-7"			FRONT FACE - VERTICAL
R509		5	39'-8"			FRONT FACE - HORIZONTAL
R510		30	8'-3"			FRONT FACE - VERTICAL 🗶
R511		59	8'-10"	х		PARAPET - VERTICAL
R812		10	38'-3"			PARAPET - HORIZONTAL

AN UNDISTRIBUTED QUANTITY OF BARS IS INCLUDED IN THE BILL OF BARS FOR VARIATIONS IN FACING HEIGHT AND STONE SHELF ELEVATION. LAP 1'-9" MIN. AS NEEDED WITH BARS SHOWN.

WINGS SHALL BE ALIGNED WITH THE TOP OF THE WING. WRAP AROUND/MATCH FORMLINER PATTERN AT CORNERS AT END OF WING.

ALL FORMLINER WORK SHALL BE INCLUDED UNDER THE BID ITEM "ARCHITECTURAL SURFACE TREATMENT B-67-248"

STAINING NOTES

W511

ALL ARCHITECTURAL SURFACE TREATMENT FORMLINER AREAS SHALL BE STAINED A RANDOMLY MIXED COLOR ARRANGEMENT TO ACHIEVE A TEXTURED LOOK AS DIRECTED BY THE ENGINEER. APPLY A MULTI-COLOR STAIN USING AMS STANDARD COLOR #36424 AS THE BASE COLOR & AMS STANDARD COLOR #33522 & AMS STANDARD COLOR #33564 AS THE ACCENT COLORS. THE PROTRUDING PORTIONS OF THE FACE (APPROXIMATELY 70%-80%) STAINED TO HIGHLIGHT THE STONE TEXTURE. TO BE PAID FOR UNDER THE BID ITEM "CONCRETE STAINING MULTI-COLOR B-40-248".

R511

B STAIN SURFACE AMS STANDARD COLOR #36424. TO BE PAID FOR UNDER THE BID ITEM "CONCRETE STAINING MULTI-COLOR B-40-248"

IF TOUCH UP STAINING IS REQUIRED, IT SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST.

ARCH. SURF. TREAT. NOTES

FORMLINER COURSING ON THE FRONT FACE OF THE WING SHALL BE LEVEL.

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Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

