NOVEMBER 2021 ORDER OF SHEETS

Section No.

TOTAL SHEETS = 26

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

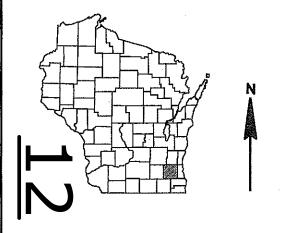
PLAN OF PROPOSED IMPROVEMENT

MADISON STREET

BRIDGE OVER FOX RIVER B-67-0099

LOCAL STREET **WAUKESHA COUNTY**

> STATE PROJECT NUMBER 2718-19-70



DESIGN DESIGNATION

A.A.D.T. = 7,000 ≈ N/A D.H.V. ≈ N/A = N/A DESIGN SPEED = 30 MPH

CONVENTIONAL SYMBOLS

PLAN CORPORATE LIMITS PROPERTY LINE LIMITED HIGHWAY EASEMENT **EXISTING RIGHT OF WAY** PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE **EXISTING CULVERT** PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS MARSH AREA

WOODED OR SHRUB AREA

PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION UTILITIES ELECTRIC FIBER OPTIC

CULVERT (Profile View) GAS SANITARY SEWER STORM SEWER TELEPHONE **UTILITY PEDESTAL** TELEPHONE POLE

BEGIN PROJECT STA 17+24.60 Y = 373880.203

2 END PROJECT STA 17+90.15 STRUCTURE B-67-99

> HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), WAUKESHA COUNTY NAD83 (1991), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES. GRID BEARINGS, AND GRID DISTANCES, GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (1991). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ACCEPTED FOR CITY OF WAUKESHA ORIGINAL PLANS PREPARED BY

FEDERAL PROJECT

WISC 2022039

CONTRACT

STATE PROJECT

2718-19-70



ATE: 7/28/2021

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

REPARED BY AECOM KATHLEEN KRAMER JEFF BOHEN

LAYOUT

TOTAL NET LENGTH OF CENTERLINE = 0.017 MI

- 1. THE CITY OF WAUKESHA IS RECONSTRUCTING MADISON STREET AND ST. PAUL AVENUE UNDER WISDOT PROJECT ID 2718-04-01 CONCURRENTLY WITH THIS PROJECT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE CITY OF
- 2. THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
- 3. RADII, ELEVATIONS, AND DIMENSIONS ARE GIVEN AT THE FACE OF CURB/FLOW LINE UNLESS OTHERWISE NOTED IN THE PLANS.
- 4. ADJUST TRAFFIC CONTROL DEVICE LOCATIONS TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- 5. EROSION CONTROL ITEMS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS TO FIT FIELD CONDITIONS.
- 6. WATERWAYS AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.



UTILITY CONTACTS

TELEPHONE - AT&T WISCONSIN TOM CROWLEY 2005 PEWAUKEE ROAD WAUKESHA, WI 53188 PHONE: (262) 501-3499 EMAIL: TC1657@ATT.COM

FIBER OPTIC - CHARTER **NEAL LONG** 1320 NORTH MARTIN LUTHER KIND JR DRIVE MILWAUKEE, WI 53212 PHONE: (414) 277-4271

EMAIL: NEAL.LONG@CHARTER.COM

STORM WATER/SANITARY SEWER - CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS CHRISTOPHER LANGEMAK 130 DELAFIELD STREET WAUKESHA, WI 53188 PHONE: (262) 524-3598 EMAIL: CLANGEMAK@WAUKESHA-WI.GOV

WATER - WAUKESHA WATER UTILITY CHRISTOPHER WALTER PO BOX 1648 WAUKESHA, WI 53187 PHONE: (262) 521-5272 EMAIL: CWALTER@WAUKESHA-WATER.COM ELECTRICITY - WE ENERGIES ERIC KICKHAVER 500 SOUTH 116TH STREET WEST ALLIS, WI 53214 PHONE: (414) 944-5917

EMAIL: ERIC.KICKHAVER@WE-ENERGIES.COM

GAS - WE ENERGIES JACOB SPENCER S13 W33800 STH 18 DELAFIELD, WI 53018 PHONE: (262) 968-7009

EMAIL: JACOB.SPENCER@WE-ENERGIES.COM

OTHER CONTACTS

WISCONSIN DNR CRAIG WEBSTER 141 NW BARSTOW STREET, ROOM 180 WAUKESHA, WI 53188 PHONE: (262) 574-2141 EMAIL: CRAIG.WEBSTER@WI.GOV

CITY OF WAUKESHA - ENGINEERING DIVISION CRAIG AUSEN 130 DELAFIELD STREET WAUKESHA, WI 53188 PHONE: (262) 524-3589

WAUKESHA METRO BRIAN ENGELKING 2311 BADGER DRIVE WAUKESHA, WI 53188 PHONE: (262) 524-3634 BENGELKI@CI.WAUKESHA.WI.US

CAUSEN@WAUKESHA-WI.GOV

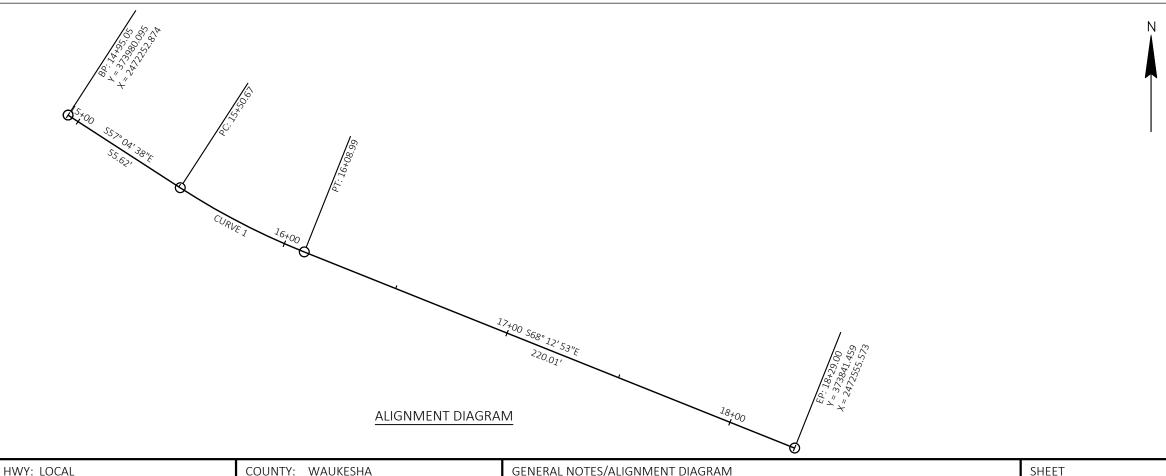
STREET LIGHTING - CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS JEFF HERNKE 201 DELAFIELD STREET WAUKESHA, WI 53188 PHONE: (262) 524-3592 EMAIL: JHERNKE@WAUKESHA-WI.GOV

ORDER OF SECTION 2 SHEETS

GENERAL NOTES/ALIGNMENT DIAGRAM PROJECT OVERVIEW CONTRUCTION DETAILS **EROSION CONTROL** TRAFFIC CONTROL

CURVE 1 PI STA = 15+79.92 Y = 373933.965 X = 2472324.119 DELTA = 11°08'15" D = 19°05'55" T = 29.25' L = 58.32' R = 300.00'PC STA = 15+50.67 PT STA = 16+08.99

PROJECT NO:



C:\PWWORKING\AECOM DS20 NA 2019\SARAH.ERICSON@AECOM.COM\D0122747\020101 GN.DWG

PLOT BY:

ERICSON, SARAH

1 IN:100 FT PLOT SCALE :

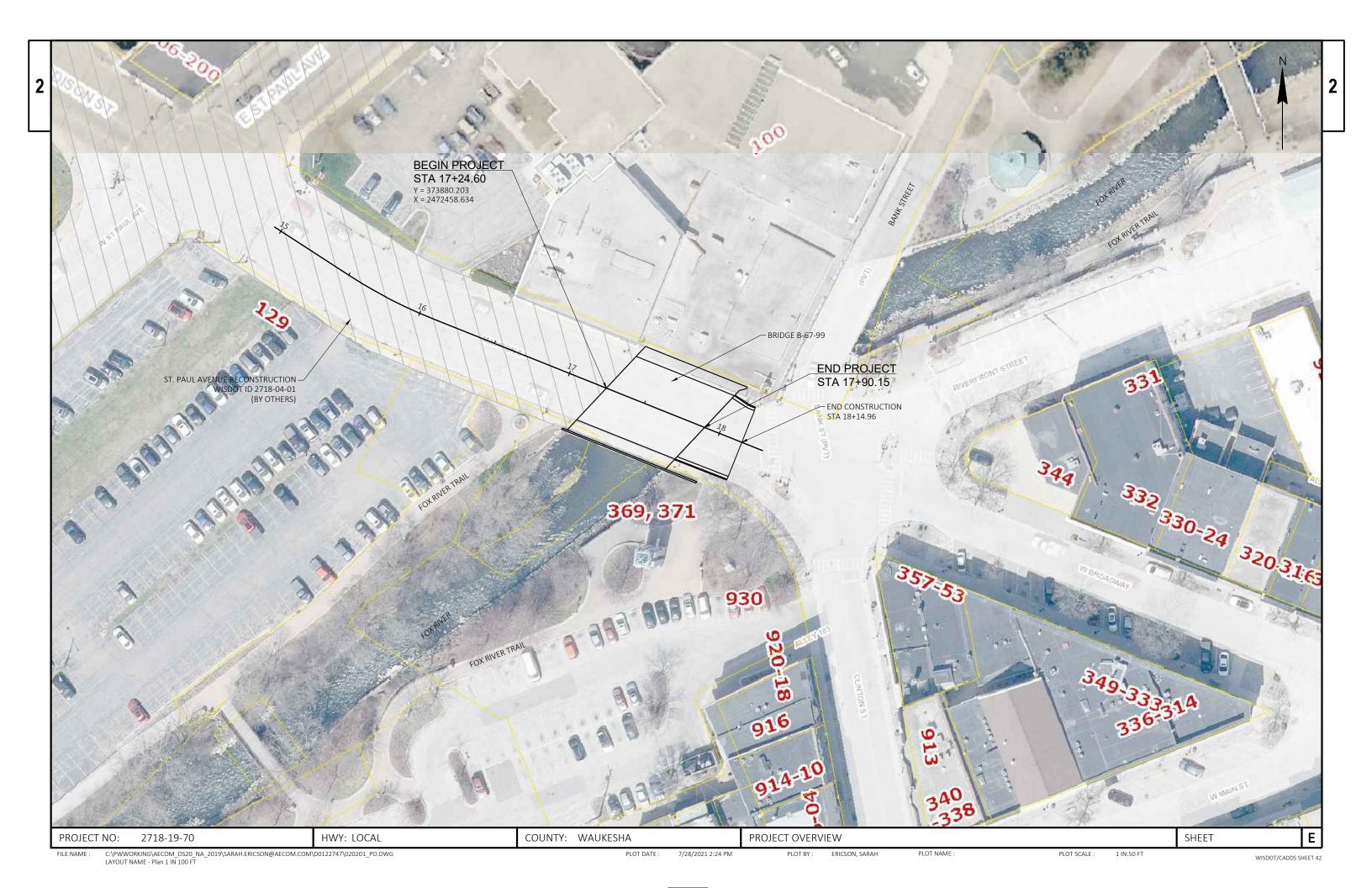
WISDOT/CADDS SHEET 42

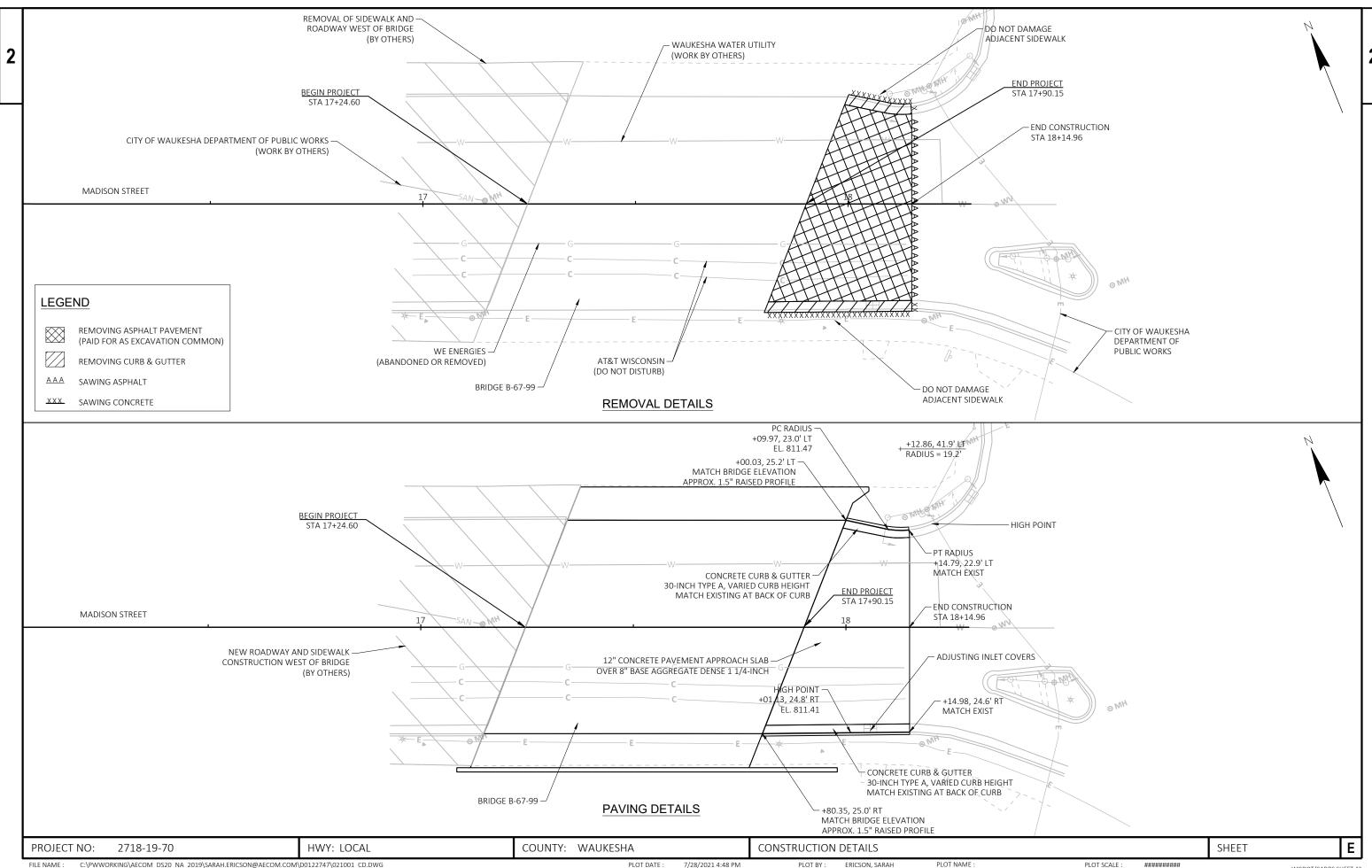
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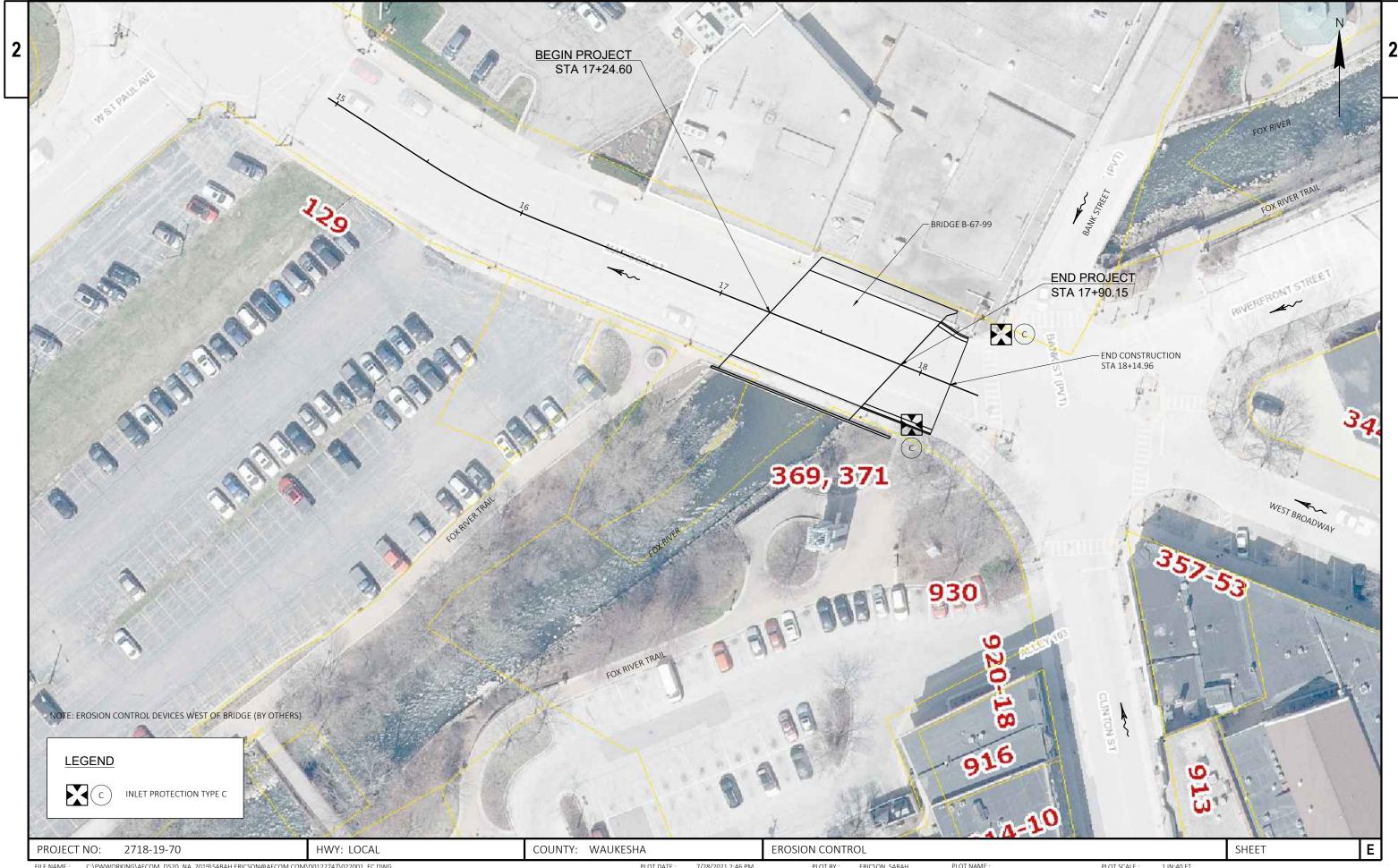
LAYOUT NAME - Plan 1 IN 100 FT

2718-19-70

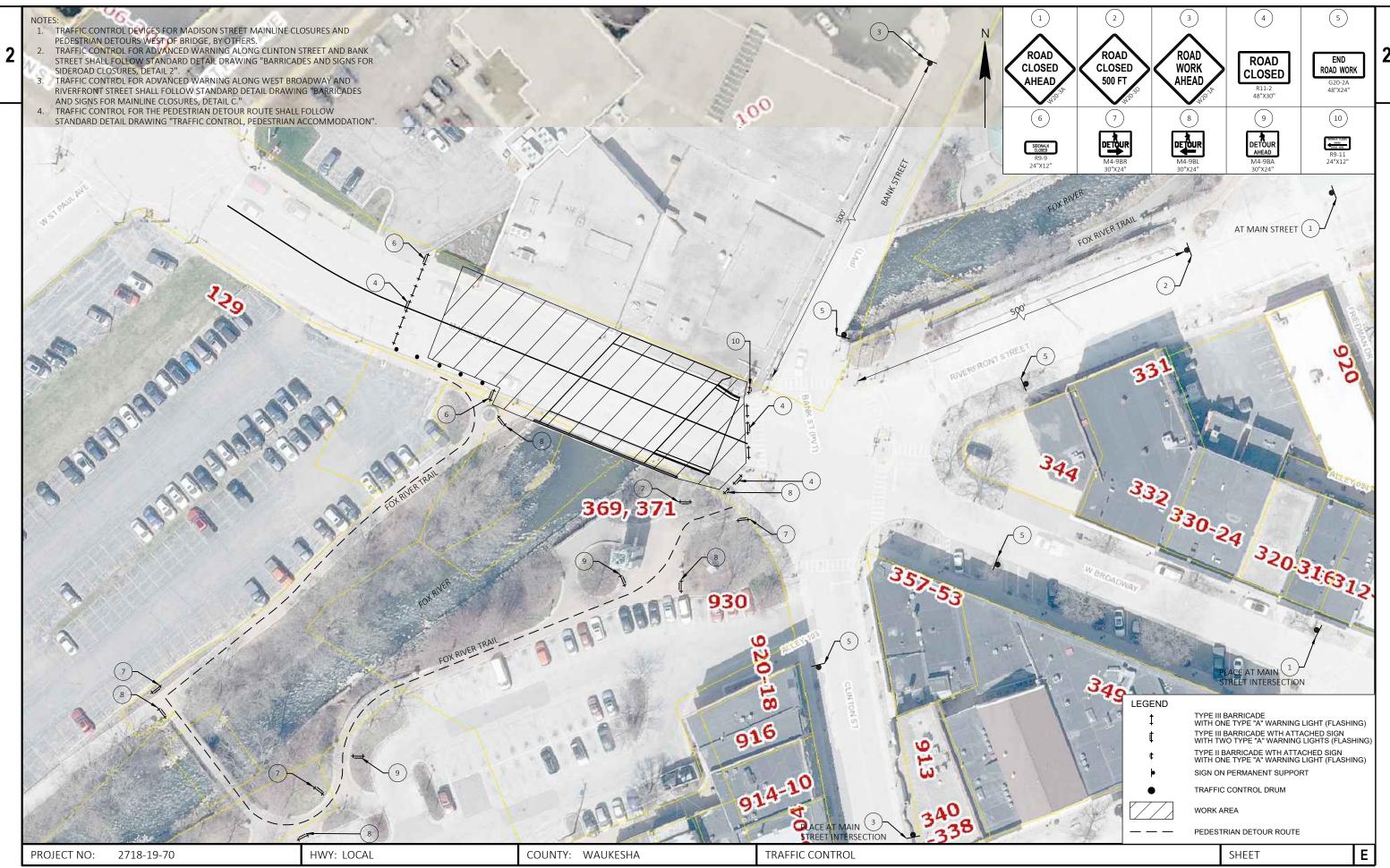
8/26/2021 11:11 AM







AME: C:\PWWORKING\AECOM_DS20_NA_2019\SARAH.ERICSON@AECOM.COM\D0122747\022001_EC.DWG PLOT DATE: 7/28/2021 2:46 PM PLOT BY: ERICSON, SARAH PLOT NAME: PLOT NAME: 1 in:40 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - Plan 1 in 100 FT



FILE NAME: C:\PWWORKING\AECOM_D520_NA_2019\SARAH.ERICSON@AECOM.COM\D0122747\025101_TC.DWG PLOT DATE: 8/23/2021 12:24 PM PLOT BY: ERICSON, SARAH PLOT NAME: PLOT NAME: 1 IN:50 FT LAYOUT NAME - Plan 1 IN 100 FT

WISDOT/CADDS SHEET 42

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					2/18-19-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	204.0150	Removing Curb & Gutter	LF	50.000	50.000	
0004	205.0100	Excavation Common	CY	70.000	70.000	
0006	213.0100	Finishing Roadway (project) 01. 2718-19-70	EACH	1.000	1.000	
8000	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	60.000	60.000	
0010	415.0410	Concrete Pavement Approach Slab	SY	125.000	125.000	
0012	502.3200	Protective Surface Treatment	SY	364.000	364.000	
0014	502.3215	Protective Surface Treatment Reseal	SY	121.000	121.000	
0016	509.0301	Preparation Decks Type 1	SY	45.000	45.000	
0018	509.0302	Preparation Decks Type 2	SY	7.000	7.000	
0020	509.0500	Cleaning Decks	SY	364.000	364.000	
0022	509.1200	Curb Repair	LF	27.000	27.000	
0024	509.1500	Concrete Surface Repair	SF	30.000	30.000	
0026	509.2000	Full-Depth Deck Repair	SY	2.000	2.000	
0028	509.2500	Concrete Masonry Overlay Decks	CY	23.000	23.000	
0030	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	50.000	50.000	
0032	611.8115	Adjusting Inlet Covers	EACH	1.000	1.000	
0034	619.1000	Mobilization	EACH	1.000	1.000	
0036	624.0100	Water	MGAL	0.900	0.900	
0038	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000	
0040	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000	
0042	628.7015	Inlet Protection Type C	EACH	2.000	2.000	
0044	643.0300	Traffic Control Drums	DAY	600.000	600.000	
0046	643.0410	Traffic Control Barricades Type II	DAY	60.000	60.000	
0048	643.0420	Traffic Control Barricades Type III	DAY	630.000	630.000	
0050	643.0705	Traffic Control Warning Lights Type A	DAY	1,140.000	1,140.000	
0052	643.0900	Traffic Control Signs	DAY	780.000	780.000	
0054	643.1050	Traffic Control Signs PCMS	DAY	7.000	7.000	
0056	643.5000	Traffic Control	EACH	1.000	1.000	
0058	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	66.000	66.000	
0060	690.0150	Sawing Asphalt	LF	45.000	45.000	
0062	690.0250	Sawing Concrete	LF	55.000	55.000	
0064	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000	
0066	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	200.000	200.000	
0068	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000	

	REMOVA	LS		
	204.0150	205.0100	690.0150	690.0250
	REMOVING			
	CURB &	EXCAVATION	SAWING	SAWING
	GUTTER	COMMON	ASPHALT	CONCRETE
LOCATION	LF	CY	LF	LF
PROJECT 2718-19-70	50	70	45	55
TOTALS	50	70	45	55

	EROSION CON	NTROL	
	628.1905	628.1910	628.7015
		MOBILIZATION	
	MOBILIZATION	EMERGENCY	INLET
	EROSION	EROSION	PROTECTION
	CONTROL	CONTROL	TYPE C
LOCATION	EACH	EACH	EACH
PROJECT 2718-19-70	2	1	2
TOTALS	2	1	2

APPROACH WORK

		305.0120	415.0410	601.0409	611.8115	624.01
	BAS	E AGGREGATE CO	NCRETE PAVEMENT	CONCRETE CURB & GUTTER	ADJUSTING	
	DEN	ISE 1 1/4-INCH	APPROACH SLAB	30-INCH TYPE A (1)	INLET COVERS	WATER
LOCATI	ON	TON	SY	LF	EACH	MGAL
PROJECT 271	8-19-70	60	125	50	1	0.9
TOTAL	_S	60	125	50	1	0.9

NOTES:

(1) VARIED CURB HEIGHT TO MATCH EXISTING ELEVATION AT BACK OF CURB

TRAFFIC CONTROL

		TRAFFIC	0300 CONTROL JMS	TRAFFIC	0410 CONTROL DES TYPE II	TRAFFIC	0420 CONTROL DES TYPE III	TRAFFIC	.0705 CONTROL IGHTS TYPE A		0900 CONTROL GNS	TRAFFIC	.1050 CONTROL S PCMS	643.5000 TRAFFIC CONTROL
LOCATION	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS (3)	EACH
MADISON STREET (WEST OF BRIDGE) (1)	30	5	150	-	-	7	210	10	300	3	90	-	-	-
MADISON STREET (EAST OF BRIDGE)	30	-	-	2	60	4	120	8	240	13	390	1	7	-
PEDESTRIAN DETOUR	30	-	-	-	-	10	300	20	600	10	300	-	-	-
PROJECT 2718-19-70	30	15 (2)	450	-	-	-	-	-	-	-	-	-	-	1
TOTALS			600	-	60	_	630	_	1,140		780	-	7	1

NOTES:

- (1) TRAFFIC CONTROL DEVICES FOR MADISON STREET MAINLINE CLOSURES AND PEDESTRIAN DETOURS WEST OF BRIDGE, BY OTHERS.
- (2) UNDISTRIBUTED QUANTITY
- (3) PLACE PCMS SIGN FOR 7 DAYS PRIOR TO CLOSURE

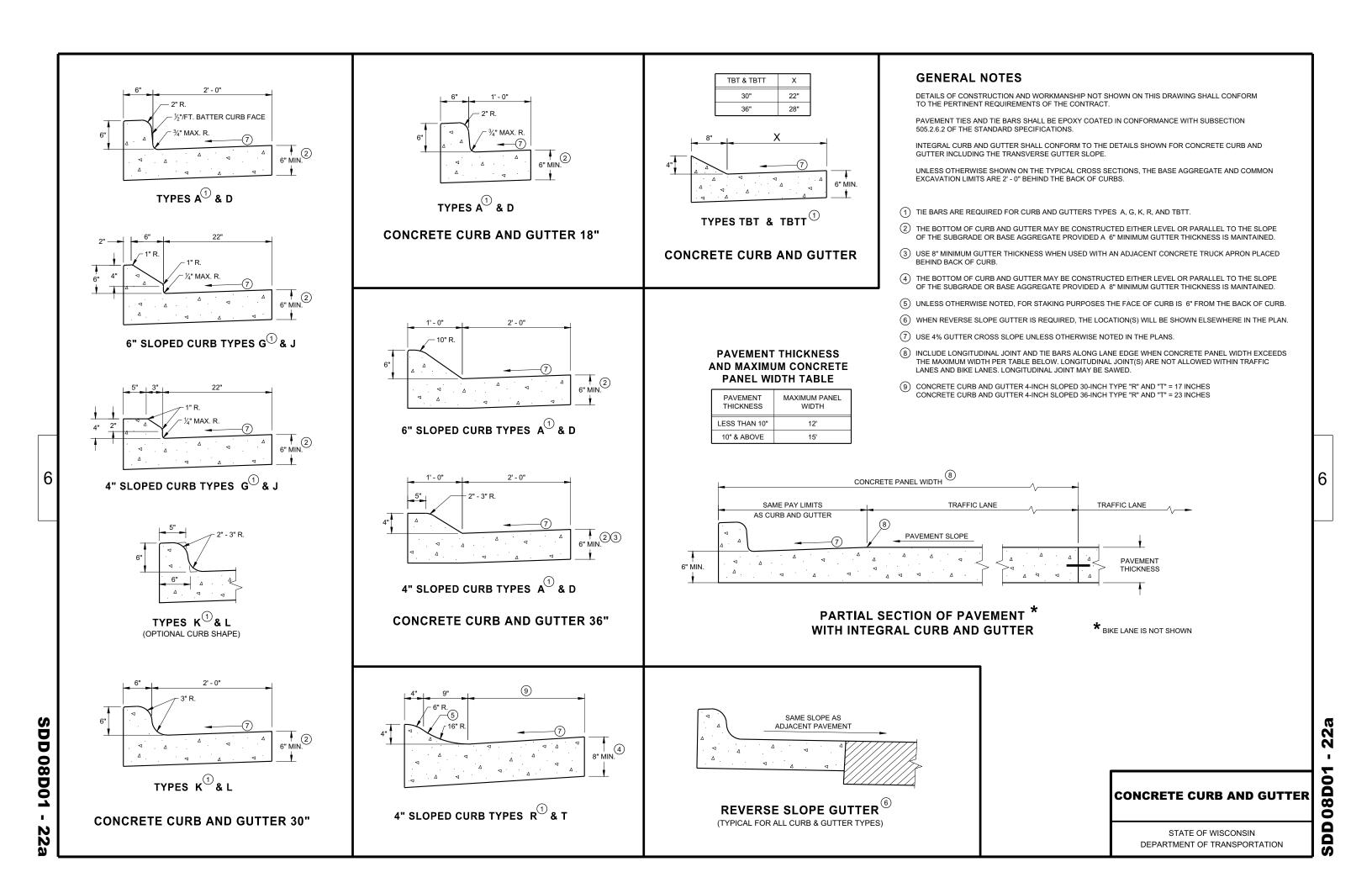
UNLESS OTHERWISE NOTED ALL ITEMS IN CATEGORY 0010

PROJECT NO: 2718-19-70 HWY: LOCAL COUNTY: WAUKESHA MISCELLANEOUS QUANTITIES SHEET NO: **E**

Standard Detail Drawing List

08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08E10-02	INLET PROTECTION TYPE A, B, C AND D
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15С11-09в	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D30-06A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-06B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-06C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

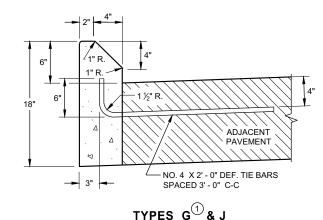
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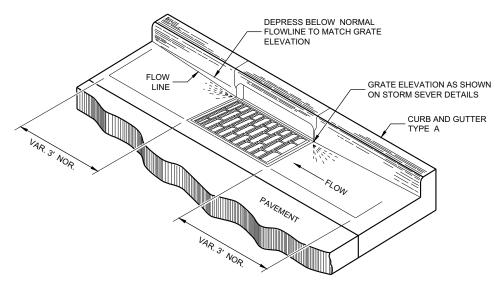
DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

TYPES A D



CONCRETE CURB



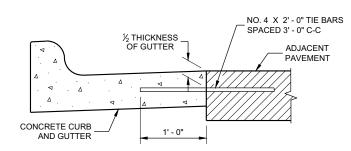
GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

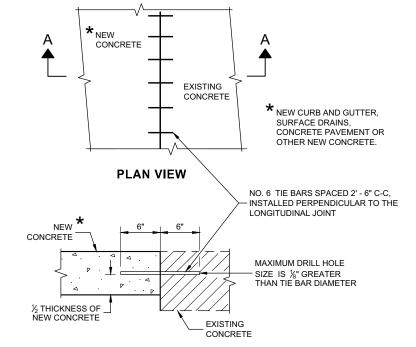
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'- 0" BEHIND THE BACK OF CURBS.

- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- (2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- 9 REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

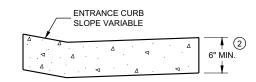


TYPICAL TIE BAR LOCATION $^{\scriptsize \textcircled{1}}$



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

N

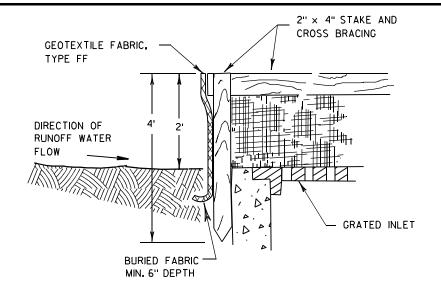
08DO

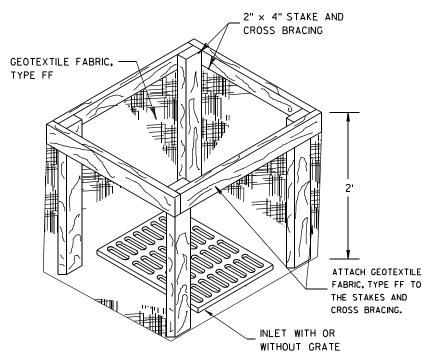
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

 APPROVED
 /S/ Rodnery Taylor

 February 2021
 /S/ Rodnery Taylor

 DATE
 ROADWAY STANDARDS DEVELOPMENT ENGINEER





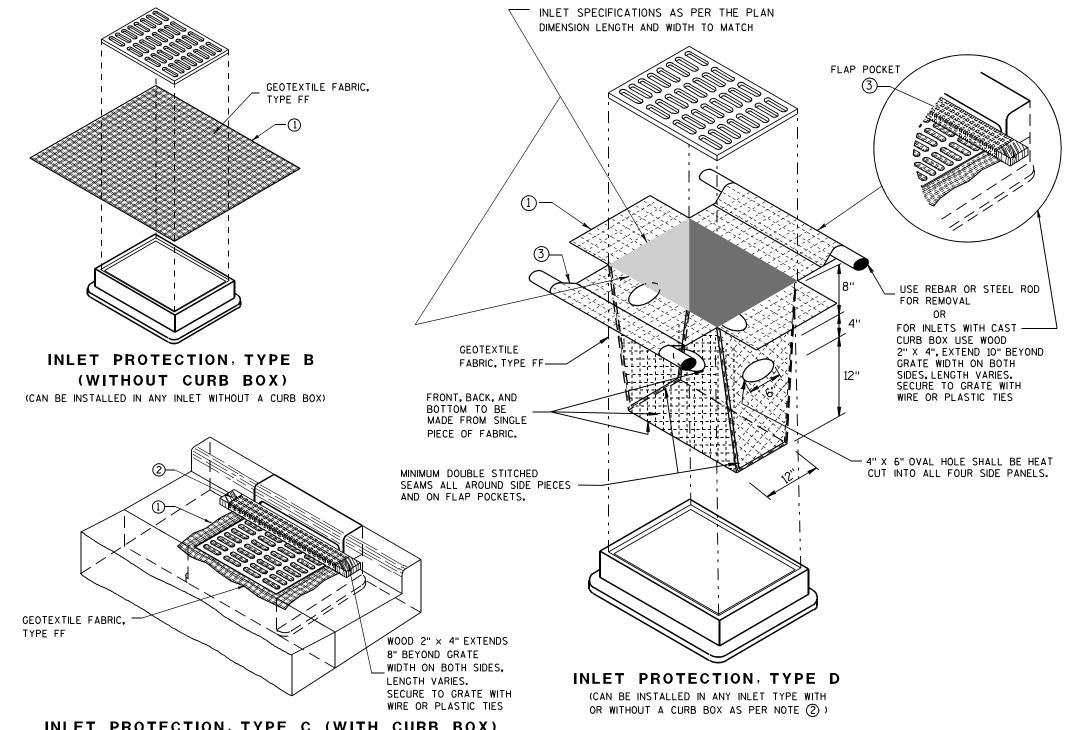
INLET PROTECTION, TYPE A

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- (2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION TYPE A, B, C, AND D

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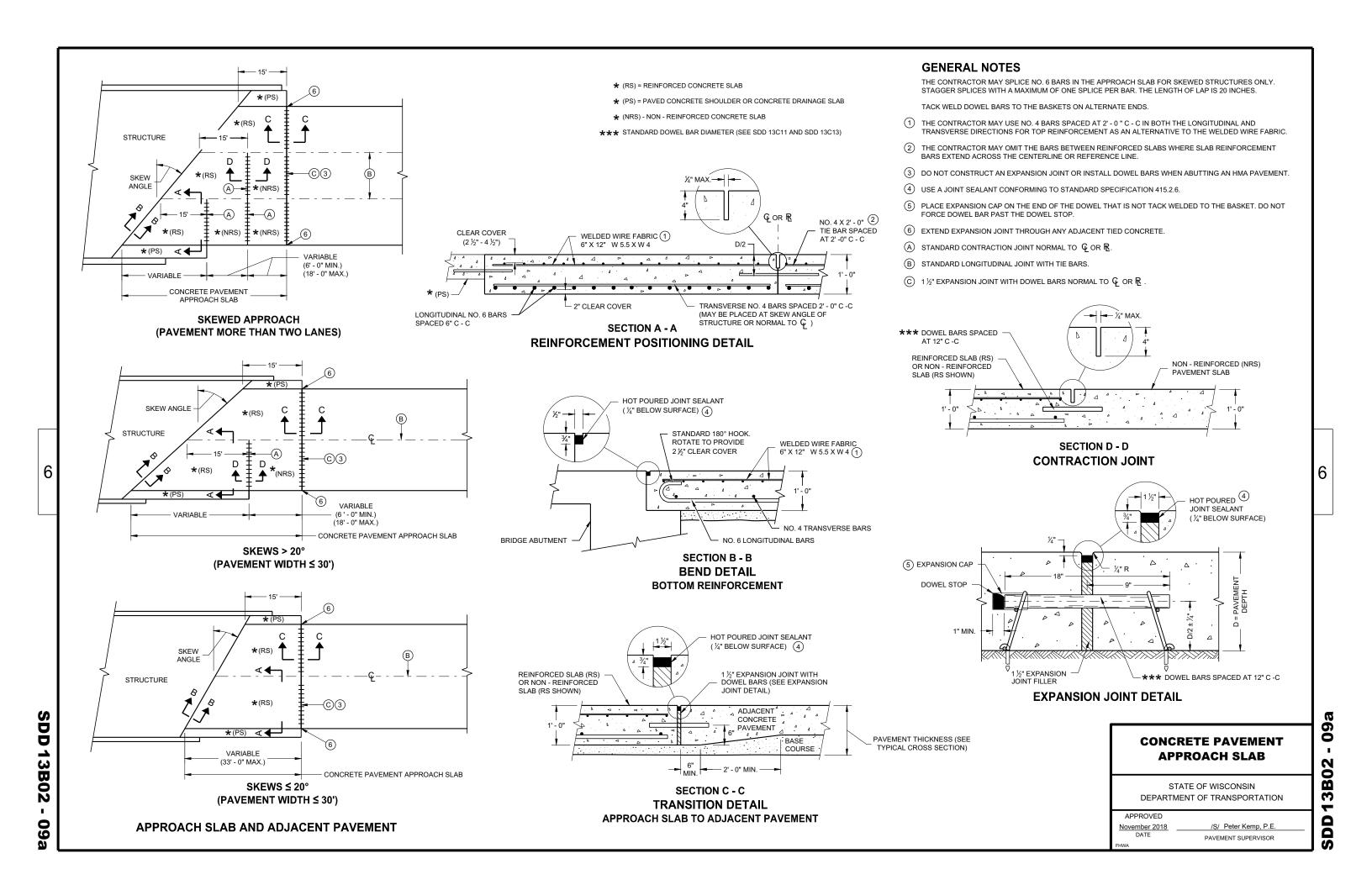
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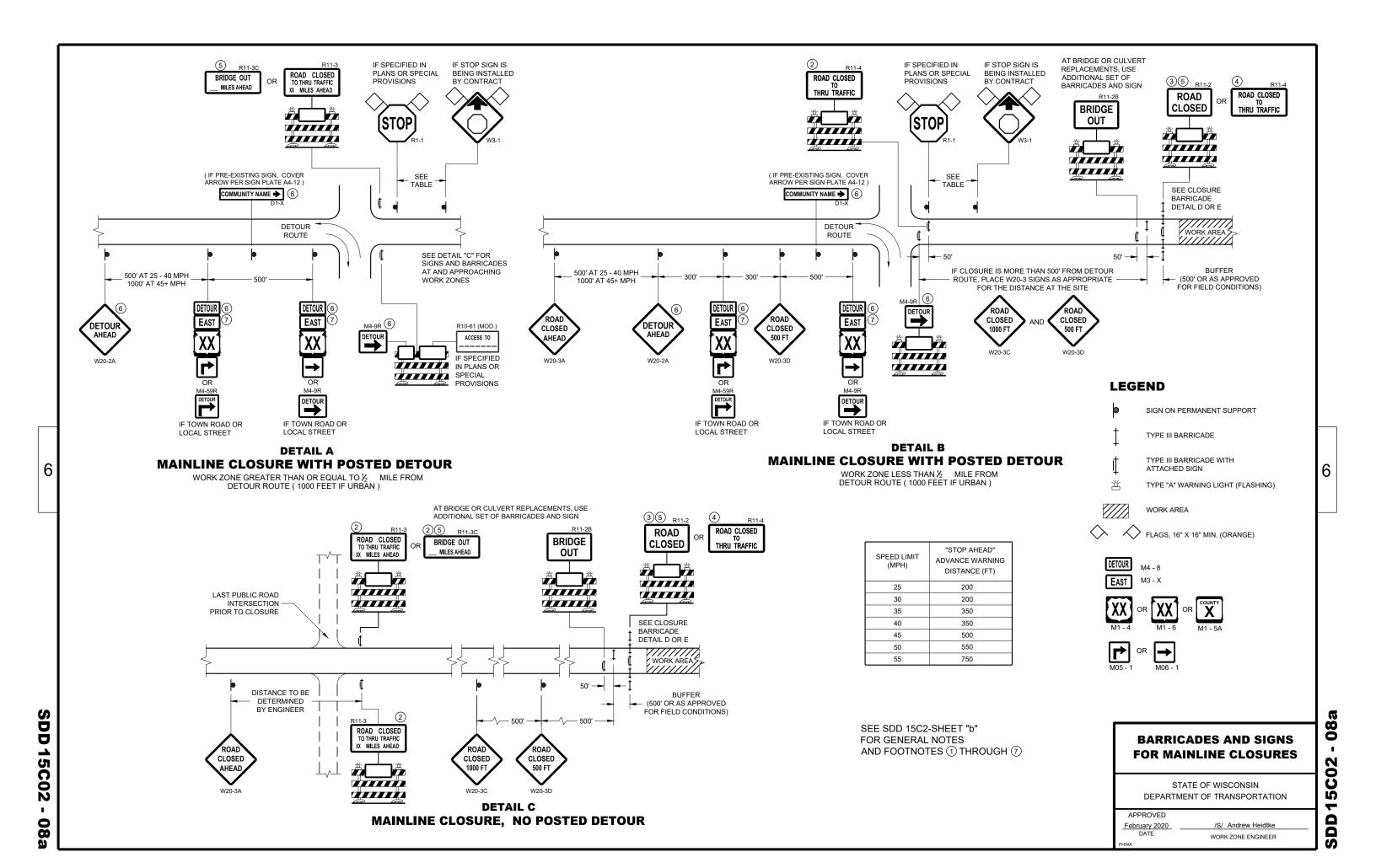
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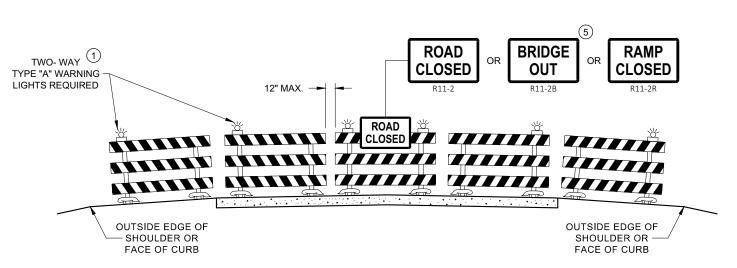
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APF	RO	VED	

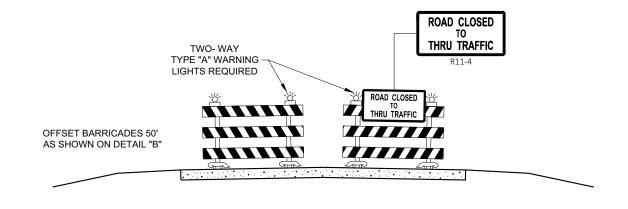
/S/ Beth Cannestra 10/16/02 CHIEF ROADWAY DEVELOPMENT ENGINEER







DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE 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)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" 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 LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> 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 ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

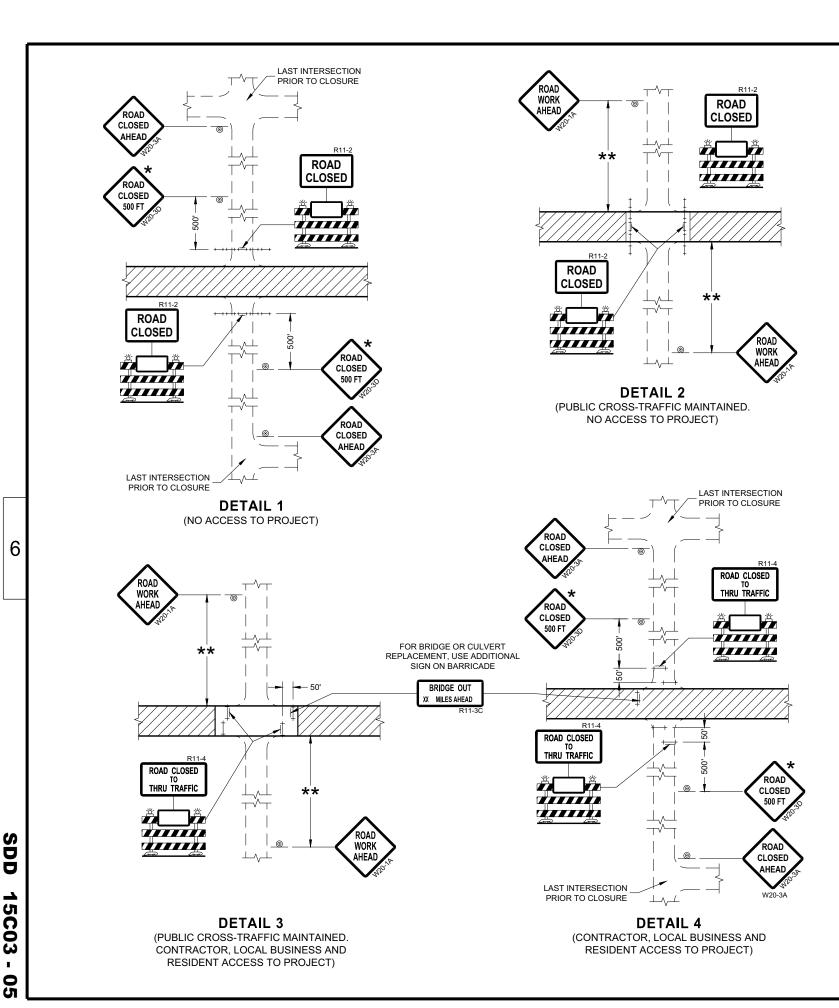
APPROVED

February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

D15C0

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THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

- ★ OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.
- ** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

WORK AREA

TYPE III BARRICADE WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

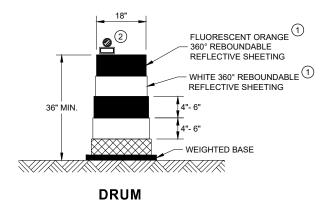
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DEPARTMENT OF TRANSPORTATION

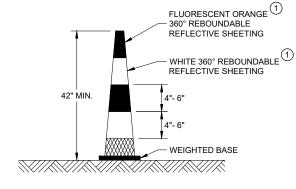
 APPROVED

 July 2018
 /S/ Andrew Heidtke

 DATE
 WORK ZONE ENGINEER

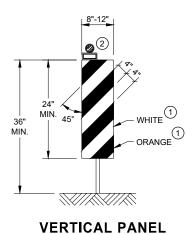
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



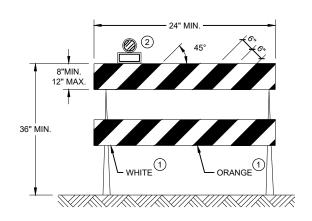


42" CONE DO NOT USE IN TAPERS

½ SPACING OF DRUMS

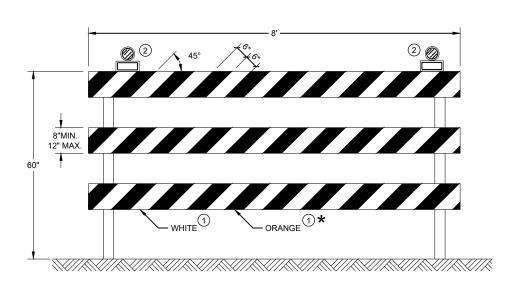


THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



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.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

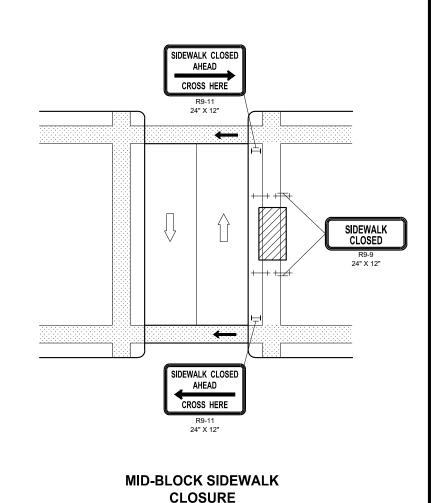
<u>60</u>

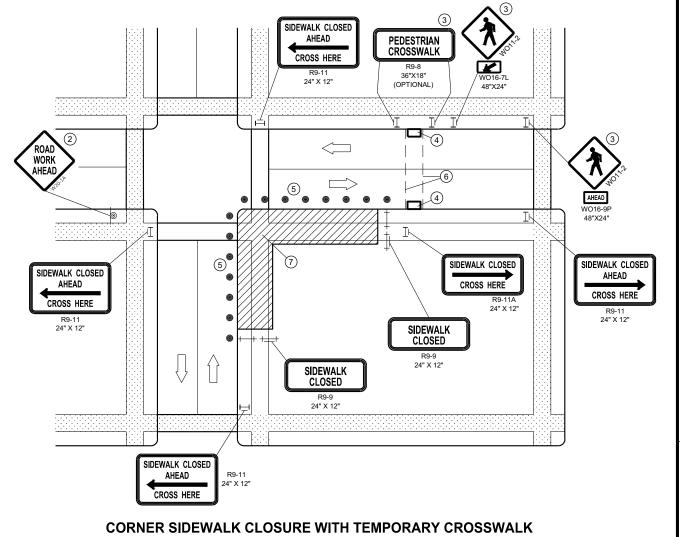
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SDD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER





WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

- 1 IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
- (2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
- (3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK
- (4) TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.
- (5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
- 6 TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
- (7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)

TYPE III BARRICADE WITHWITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)

UNDER PEDESTRIAN TRAFFIC

WORK AREA

PEDESTRIAN CHANNELIZATION DEVICE

DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

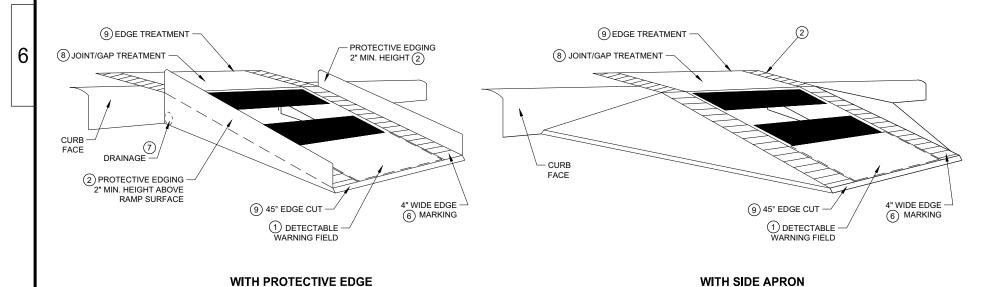
SDD 15D30 - 06a

4" WIDE EDGE MARKING (6)

TEMPORARY CURB RAMP PARALLEL TO CURB

CROSS SLOPE 2% MAX. (4)

ABOVE RAMP SURFACE (2)



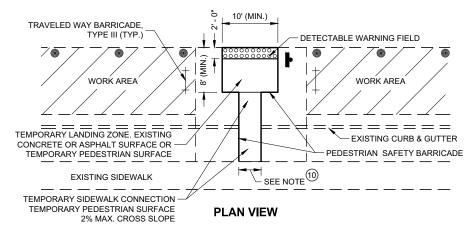
TEMPORARY CURB RAMP PERPENDICULAR TO CURB

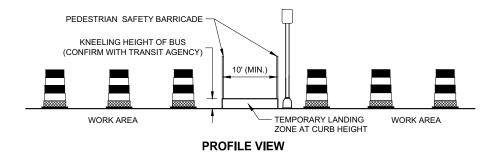
GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

- (1) CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "6".
- (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 LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- (4) CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
- (5) CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- (6) THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
- 7) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- (8) LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
- (9) CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
- (10) 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.





TEMPORARY BUS STOP PAD

LEGEND



TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

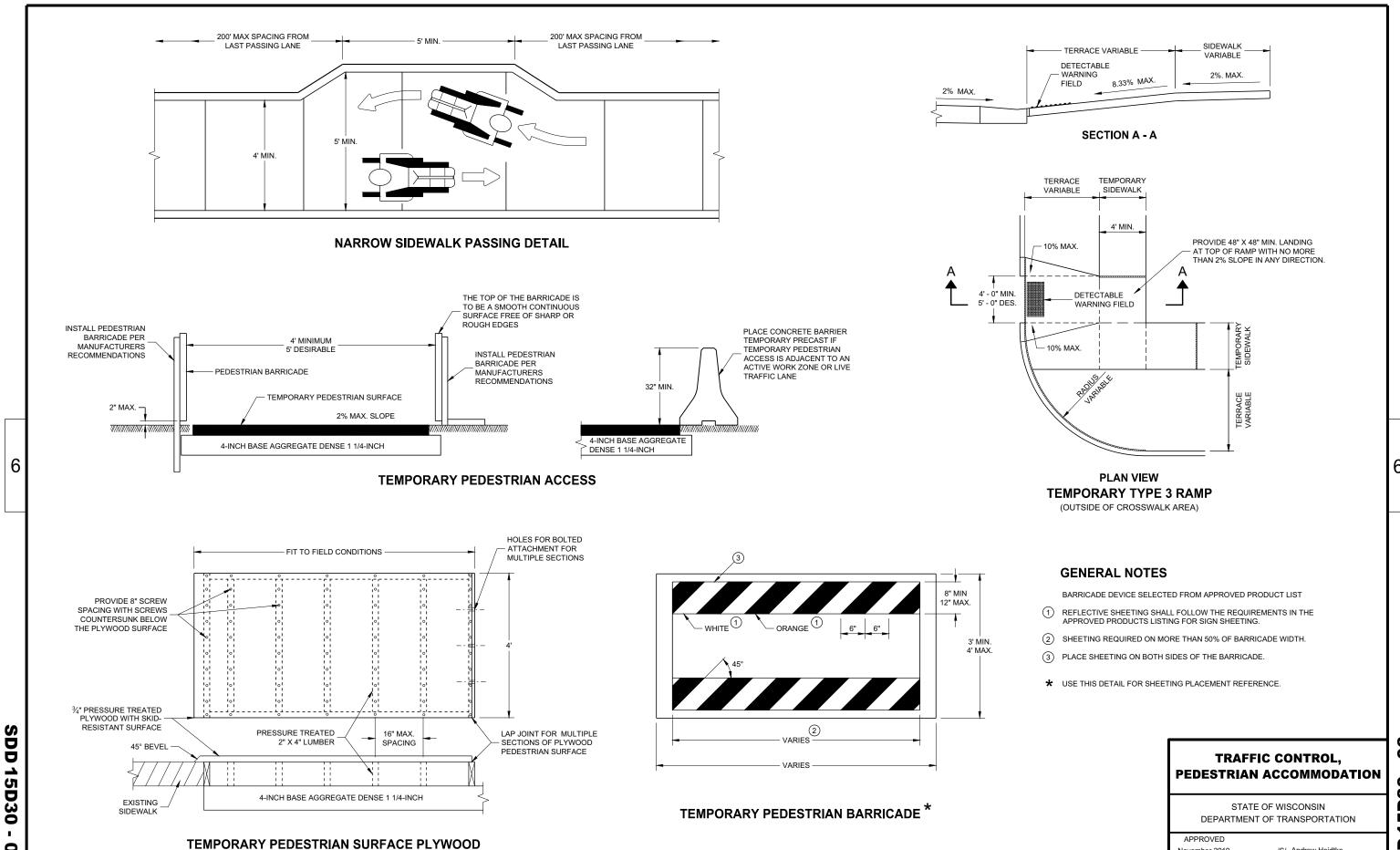
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SDD 15D30 - 06I

(5) CLEAR SPACE

(9) EDGE TREATMENT

3DD 15D30 - 06

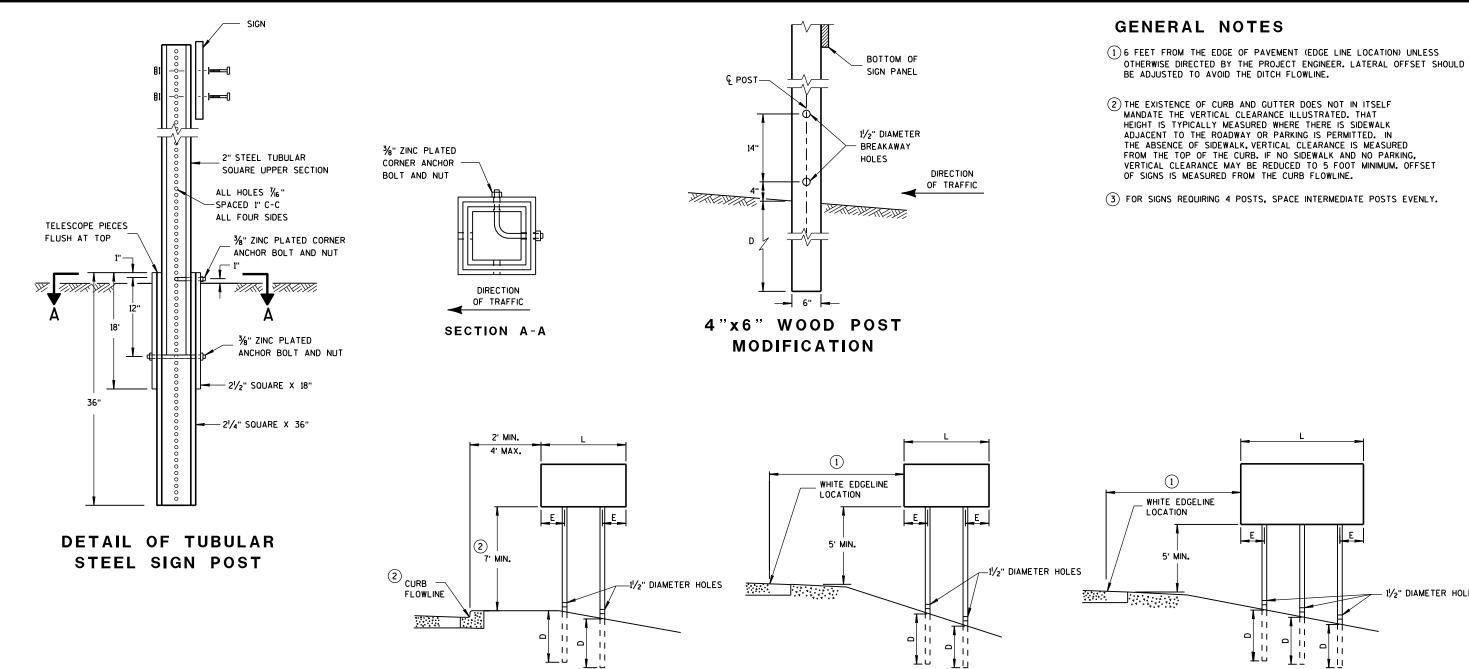


06c

SDD 15D30 - 06c

/S/ Andrew Heidtke
WORK ZONE ENGINEER

November 2019 DATE



TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EOUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SO. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	MENTS	NUMBER OF	
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	؛ [
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

-11

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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6

- 11/2" DIAMETER HOLES

S

DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017 DATE

0 ∞ **2**D

STREAM BED

CONCRETE SURFACE REPAIR

ELEVATION

(TYP. BOTH ABUTMENTS)

NORMAL WATER

36" PRESTRESSED -

GIRDER

DESIGN DATA

LIVE LOAD:

INVENTORY RATING: HS-16 OPERATING RATING: HS-30

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 205 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY OVERLAY DECKS f'c = 4,000 P.S.I.

TRAFFIC DATA

MADISON STREET:

A.D.T. = 8.200 (2018) R.D.S. = 30 MPH

NOTES DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW

PROTECTIVE SURFACE TREATMENT RESEAL SHALL BE APPLIED TO THE ENTIRE SURFACE OF THE SIDEWALKS AND CURBS. SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "PROTECTIVE SURFACE TREATMENT"

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

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

THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS 1/2-INCH TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE AND ACCOUNTING FOR VARIATION IN THE EXISTING DECK CROSS SLOPE.

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

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY OR DECK REPAIRS AT THE ABUTMENTS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

THE BROKEN LIGHTING CONDUIT UNDER THE BRIDGE IS TO BE REMOVED AND REPLACED. COORDINATE THE WORK WITH THE CITY OF WAUKESHA. PAYMENT FOR PULLING THE WIRE OUT, REMOVING THE BROKEN CONDUIT, INSTALLING THE NEW CONDUIT AND PULLING THE WIRE BACK THROUGH IS INCLUDED IN THE BID ITEM "CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH."

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

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

LIST OF DRAWINGS

- CONCRETE OVERLAY
- CROSS SECTION INFRARED SCAN DATA



STRUCTURES DESIGN CONTACTS

BUREAU OF STRUCTURES CONTACT - AARON BONK (608) 261-0261 CONSULTANT CONTACT - MICHAEL ARNOLD (414) 831-4179



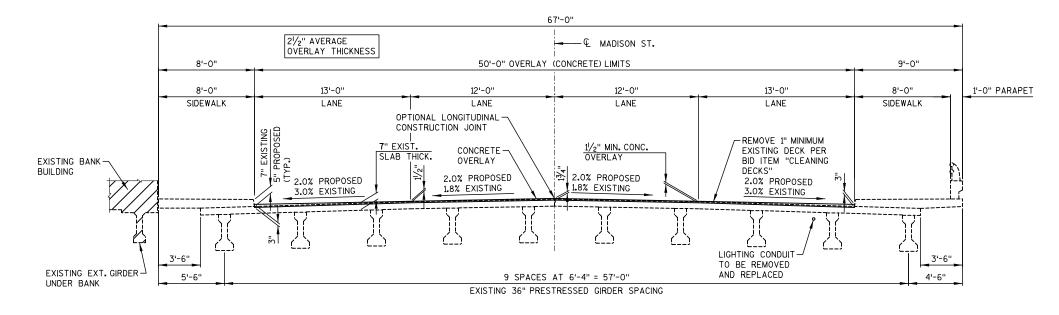
STATE PROJECT NUMBER

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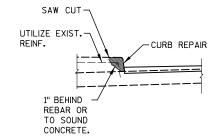
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CROSS SECTION THRU ROADWAY

(LOOKING EAST)



CURB REPAIR DETAIL

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	TOTALS
502,3200	PROTECTIVE SURFACE TREATMENT	SY	364
502,3215	PROTECTIVE SURFACE TREATMENT RESEAL	SY	121
509.0301	PREPARATION DECKS TYPE 1	SY	45
509.0302	PREPARATION DECKS TYPE 2	SY	7
509.0500	CLEANING DECKS	SY	364
509,1200	CURB REPAIR	LF	27
509.1500	CONCRETE SURFACE REPAIR	SF	30
509.2000	FULL-DEPTH DECK REPAIR	SY	2
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	23
652,0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	66

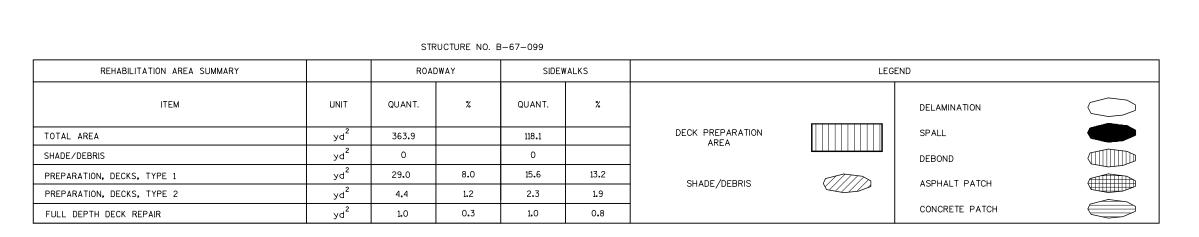
BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-67-99 CEB PLANS MJA

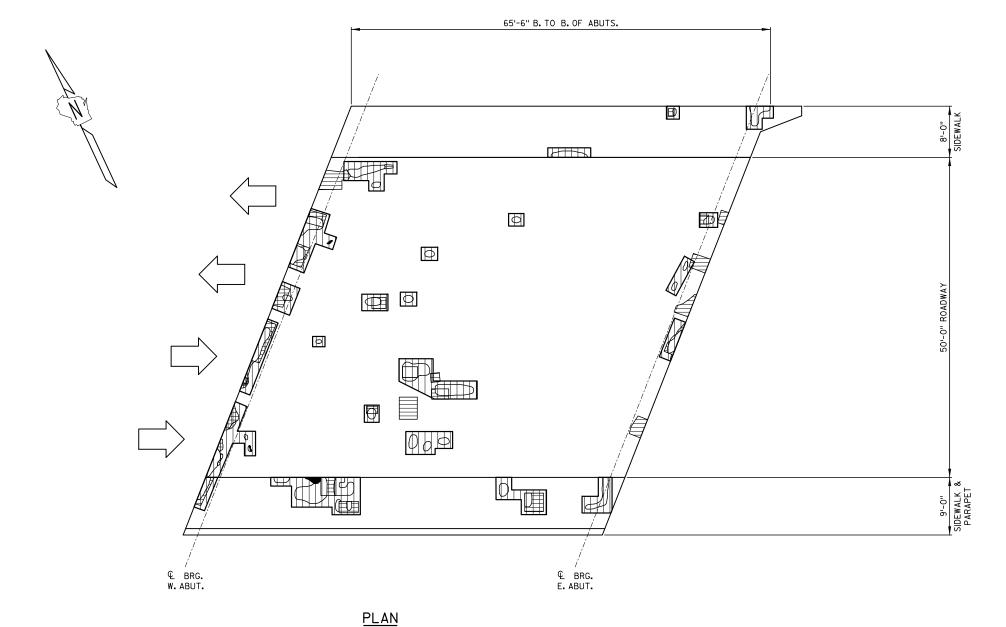
CROSS SECTION

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8

SHEET 2 OF 3



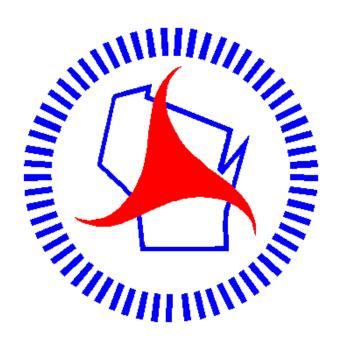


PROPOSED REHABILITATION AREAS



SURFACE TYPE: CONCRETE - NO OVERLAY INFRARED INSPECTION DATE: 8/9/19 INFRARED INSPECTION PERFORMED BY AECOM

NO.	DATE	REVISION				BY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION							
STRUCTURE B-67-99							
			DRAWN BY	JT	PLANS CK'D.	DU	
INFRARED SCAN			SHEET 3 OF 3				
DATA							



Wisconsin Department of Transportation

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