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MAY 2019

ORDER OF SHEETS

Section No. 1 Title Section No. 2 Typical Sections and Details

Section No. 3 Estimate of Ougntities Miscellaneous Ouantities

Section No. 6 Standard Detail Drawings

TOTAL SHEETS = 24

BEGIN PROJECT ID 1050-11-81

= N/A

= N/A

= N/A

= N/A

= N/A

= N/A

CONVENTIONAL SYMBOLS PLAN CORPORATE LIMITS REFERENCE LINE COMBUSTIBLE FLUIDS UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER STORM SEWER

TELEPHONE

DESIGN DESIGNATION

A.A.D.T. A.A.D.T.

D.H.V.

ESALS

DESIGN SPEED

D.D.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY REHABILITATION - MAINTENANCE PROJECT

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 1050-11-80 WISC 2019320 WISC 2019321 1050-11-81

NW REGION, VAR CTYS STATE HIGHWAY 29

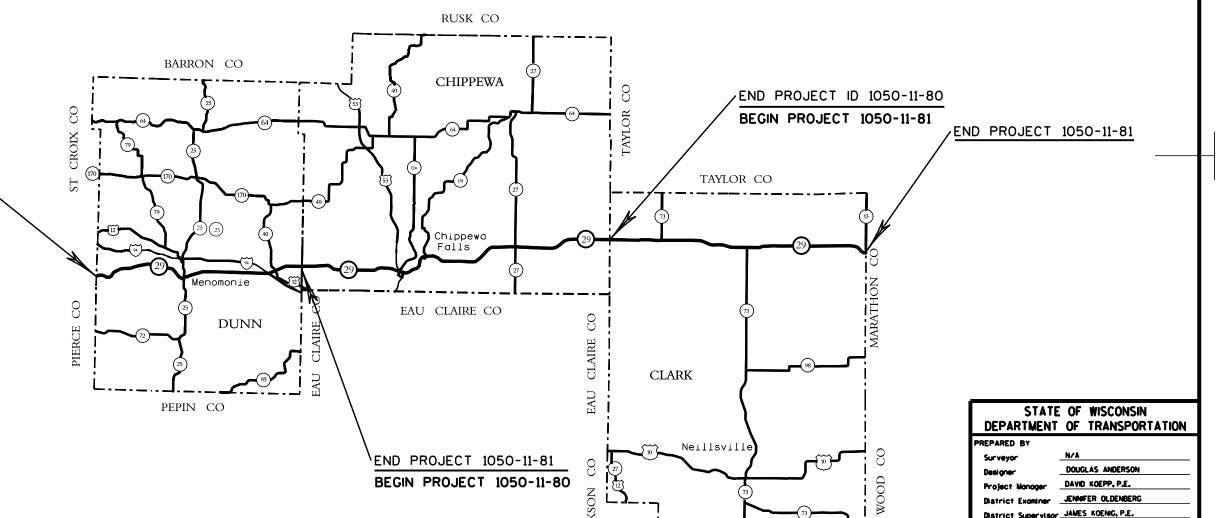
BRIDGE DECK SEALING SFY 2019 (VAR) STH 029 CHIPPEWA COUNTY

> STATE PROJECT NUMBER 1050-11-80

NW REGION, VAR CTYS STATE HIGHWAY 29

BRIDGE DECK SEALING SFY 2019 (VAR) STH 029 CLARK COUNTY

> STATE PROJECT NUMBER 1050-11-81



UTILITY PEDESTAL POWER POLE

LAYOUT

JACKSON CO

APPROVED FOR DISTRICT OFFICE

C.O. Examiner

GENERAL NOTES

1) WORK CONSISTS OF PREPARATON OF UPPER SIDE OF CONCRETE DECK, PARAPET SURFACE AND PIER COLUMNS AND APPLICATION OF CONCRETE PROTECTIVE SURFACE TREATMENT IN ACCORDANCE WITH MANUFACTURE'S SPECIFICATIONS AND RECOMMENDATIONS.

THE COMMENDATIONS.

2) THERE ARE UTILITY FACILITES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR WILL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UUTILITES THAT HAVE FACILITES IN THE AREA. NOT ALL UTILITES ARE MEBERS OF DIGGERS HOTLINE.

3) STH 29 WILL BE KEPT OPEN TO A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES.

DIRECTION AT ALL TIMES. 4) LANE CLOSURES WILL ONLY BE ALLOWED DURING TIMES SPECIFIED IN THE SPECIAL

PROVISIONS.
5) SIGNS AND DEVICES WILL BE IN CONFORMANCE WITH THE LATEST WIMANUAL OF TRAFFIC CONTROL DEVICES (WMUTCD).

6) THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES WILL BE ADJUSTED TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.



AREA CONTACTS

WISDOT NW REGION CONTACTS

DAVID KEOPP 718 W. CLAIREMONT AVENUE EAU CLAIRE, W 45701 (715) 836-2078

WI DNR (CHIPPEWA, DUNN, CLARK)

CHRIS WILLGER DNR WEST CENTRAL REGION HO 1300 WEST CLAIRMONT STREET EAU CLAIRE, WI 54701 (715) 836-1609

WISDOT NW REGION COUNTY CONTACTS

DUNN COUNTY

MIKE BURKE (715) 577-5395

CHIPPEWA COUNTY

RICHARD RICKSECKER (715) 225-9318

(715) 577-9544

NW REGION MAINTENANCE SUPERVISOR

JEFF KERN CELL: (715) 836-2919

RAILROAD NOTES

RAILROAD INSURANCE AND COORDINATION REQUIRED FOR ANY AND ALL WORK ON STRUCTURES THAT SPAN PROPERTY OWNED BY RAILROAD COMPANIES. WORK UNDER CONTRACT INVOLVES WORK ON THE UPPER SIDE OF STRUCTURES THAT SPAN PROPERTY OWED BY THE FOLLOWING RAILRAOD COMPANIES. SEE SPECIAL PROVISIONS FOR CONTACT

-UNION PACIFIC RAILROAD COMPANY -WISCONSIN CENTRAL LTD.

DECK NOTES

- ENTIRE DECK SURFACE TO BE CLEANED AND SEALED.
 INLET PROTECTION REQUIRED DURING CLEANING AND SEALING WORK ON THE
- STRUCTURES WITH FLOOR DRAINS.

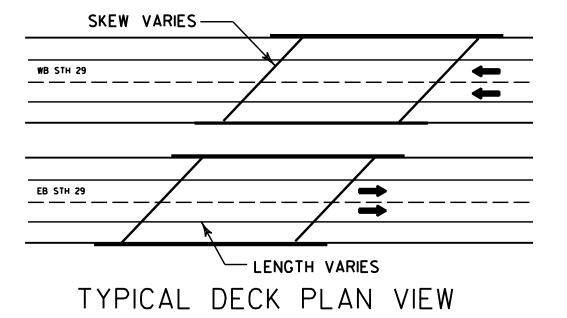
 USE TYPE FF FABRIC DURING CLEANING ACTIVES.

 USE IMPERVIOUS FABRIC DURING SEALING ACTIVIES.

- PIER COLUMN SEALING ESTIMATED QUANITY IS BASED ON A 10-FT COLUMN HEIGHT FOR EACH COLUMN ON EACH PIER.

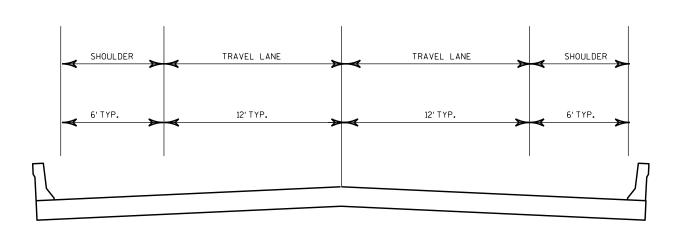
PARRAPET NOTES

- INSIDE FACE AND TOP TO BE CLAENED AND SEALED.
- TOP SURFACE TO BE ROLLED OR BRUSHED.
 PARAPET TYPE AND HEGHT VARIES.
 SURFACE AREA INCLUDED IN QUANTITY SUMMARY.
- AVERAGE 2'-6" HEIGHT USED FOR QUANITITY ESTIMATE.



4 LANE DIVIDED HWY - TYPICAL STH 29

TYP. 10' SHLDR TYP. 12' LANE TYP. 12' LANE SHLDR VARIES (6' TYP.) TYP. 60' MEDIAN SHLDR VARIES (6' TYP.) TYP. 12' LANE TYP. 12' LANE TYP. 10' SHLDR

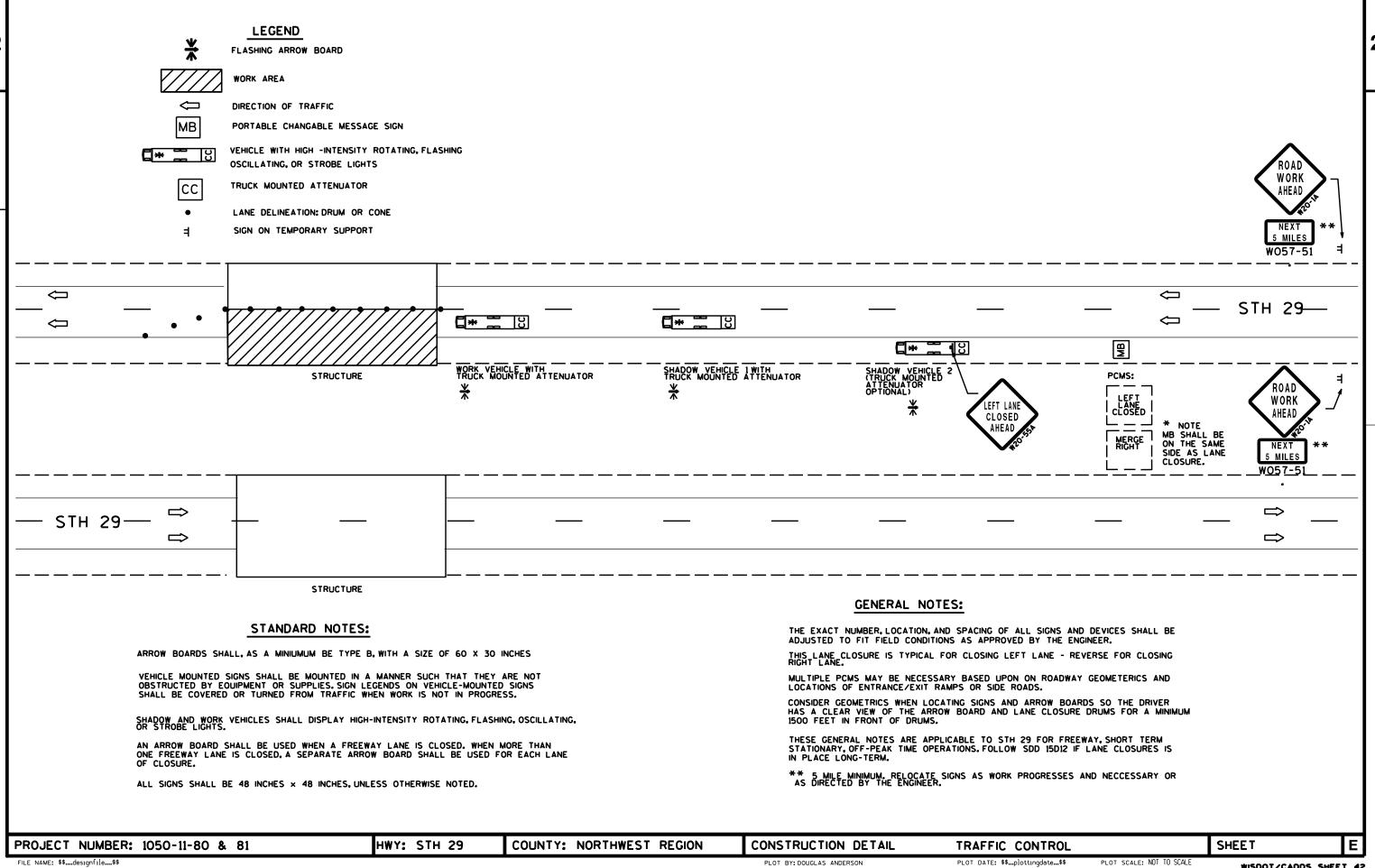


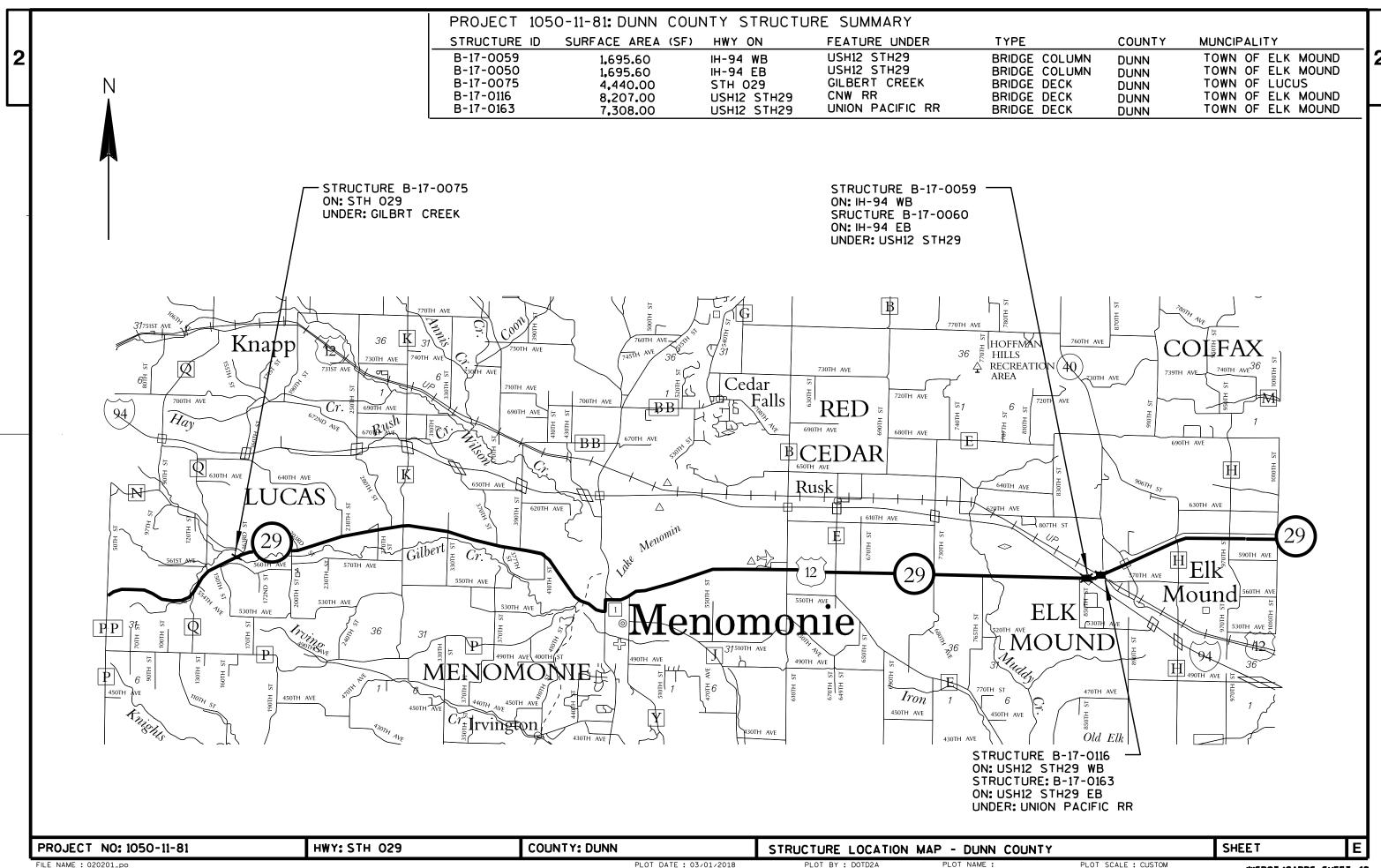
TYPICAL DECK CROSS SECTION VIEW

4 LANE DIVIDED HWY - TYPICAL STH 29

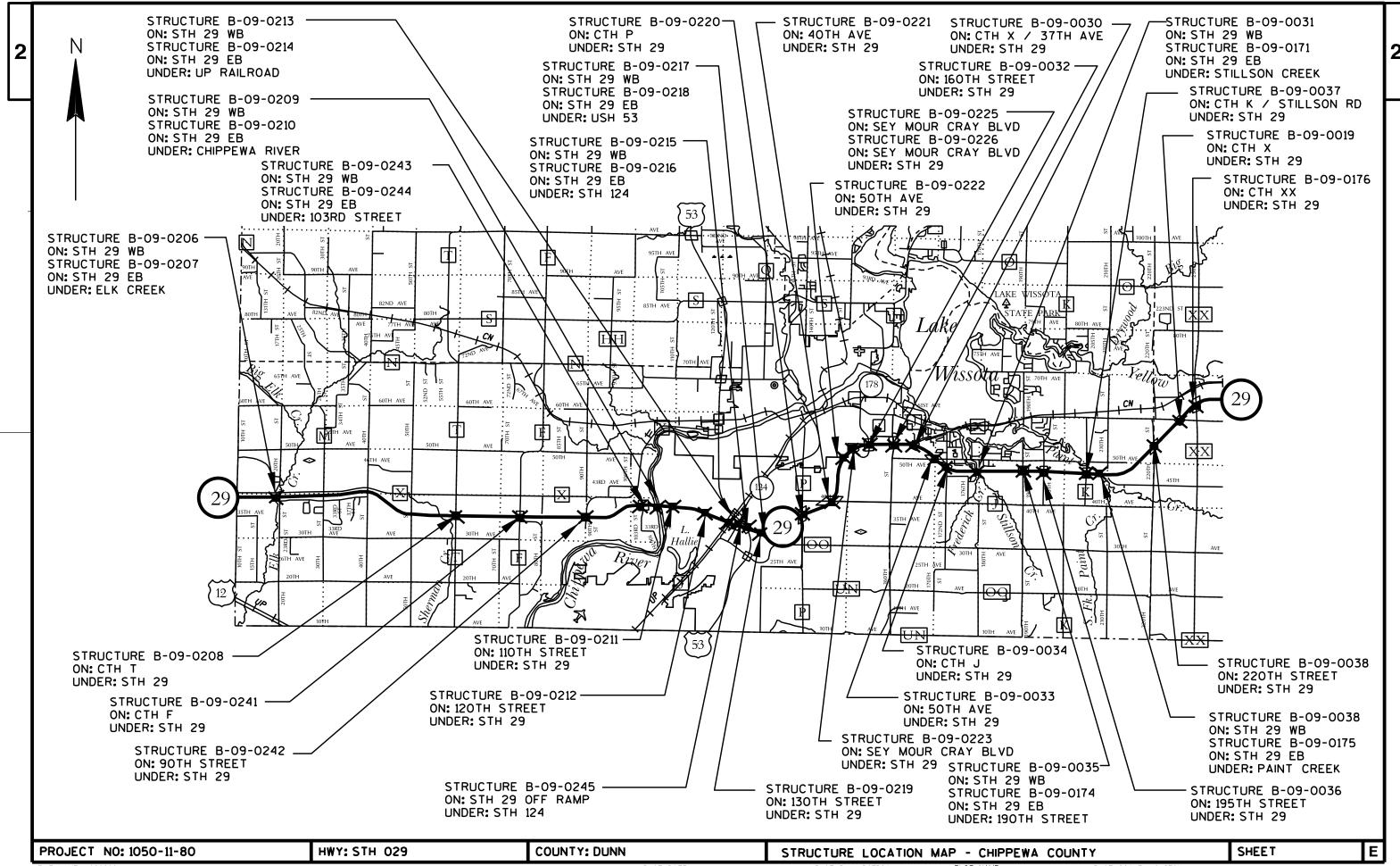
Ε HWY: STH 29 COUNTY: NW REGION **GENERAL NOTES** SHEET PROJECT NO: 1050-11-80/81

FILE NAME: 020101_gn.dgn PLOT DATE: 02/26/2018 PLOT BY: dotd2a PLOT SCALE : not to scale WISDOT/CADDS SHEET 42



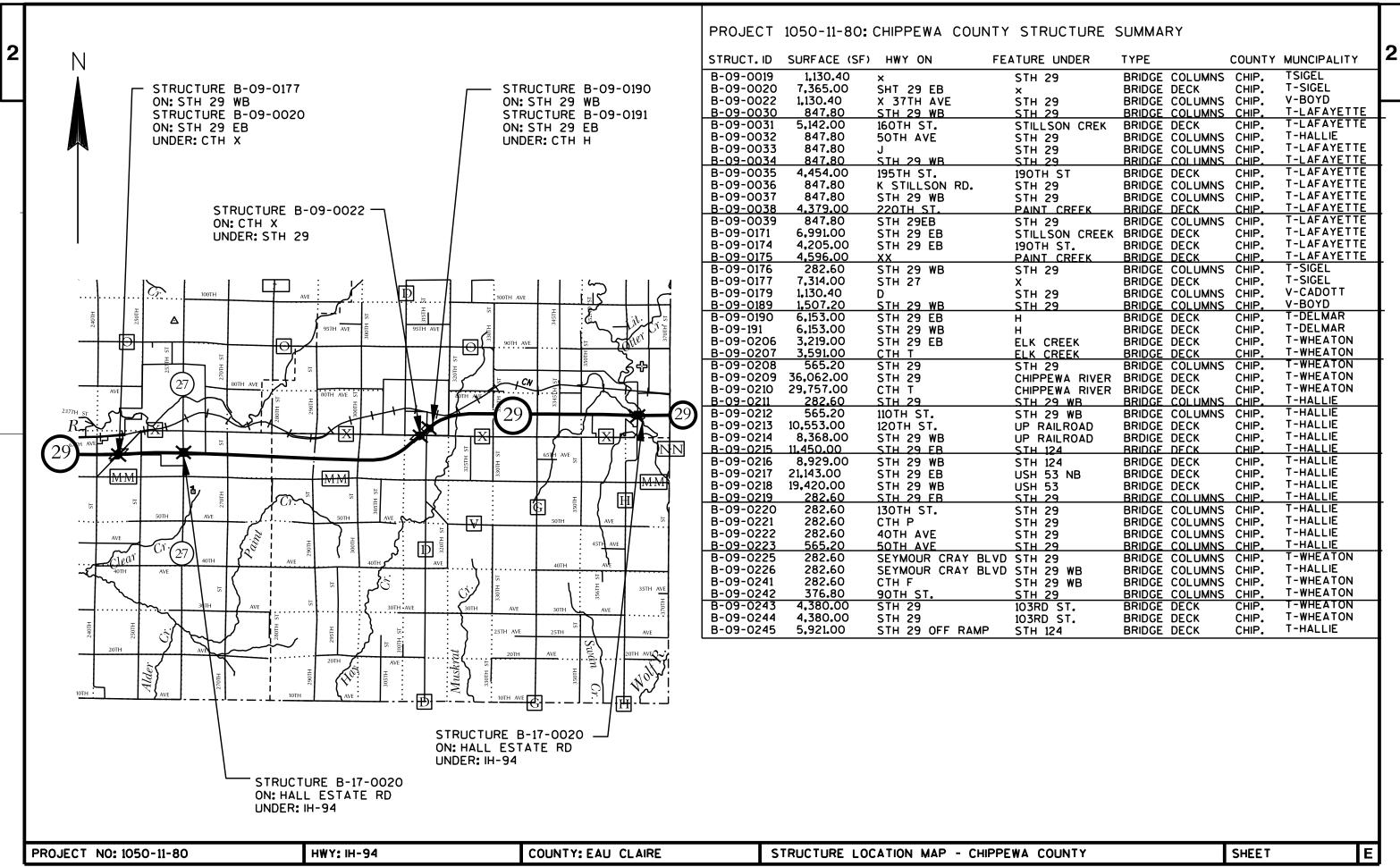


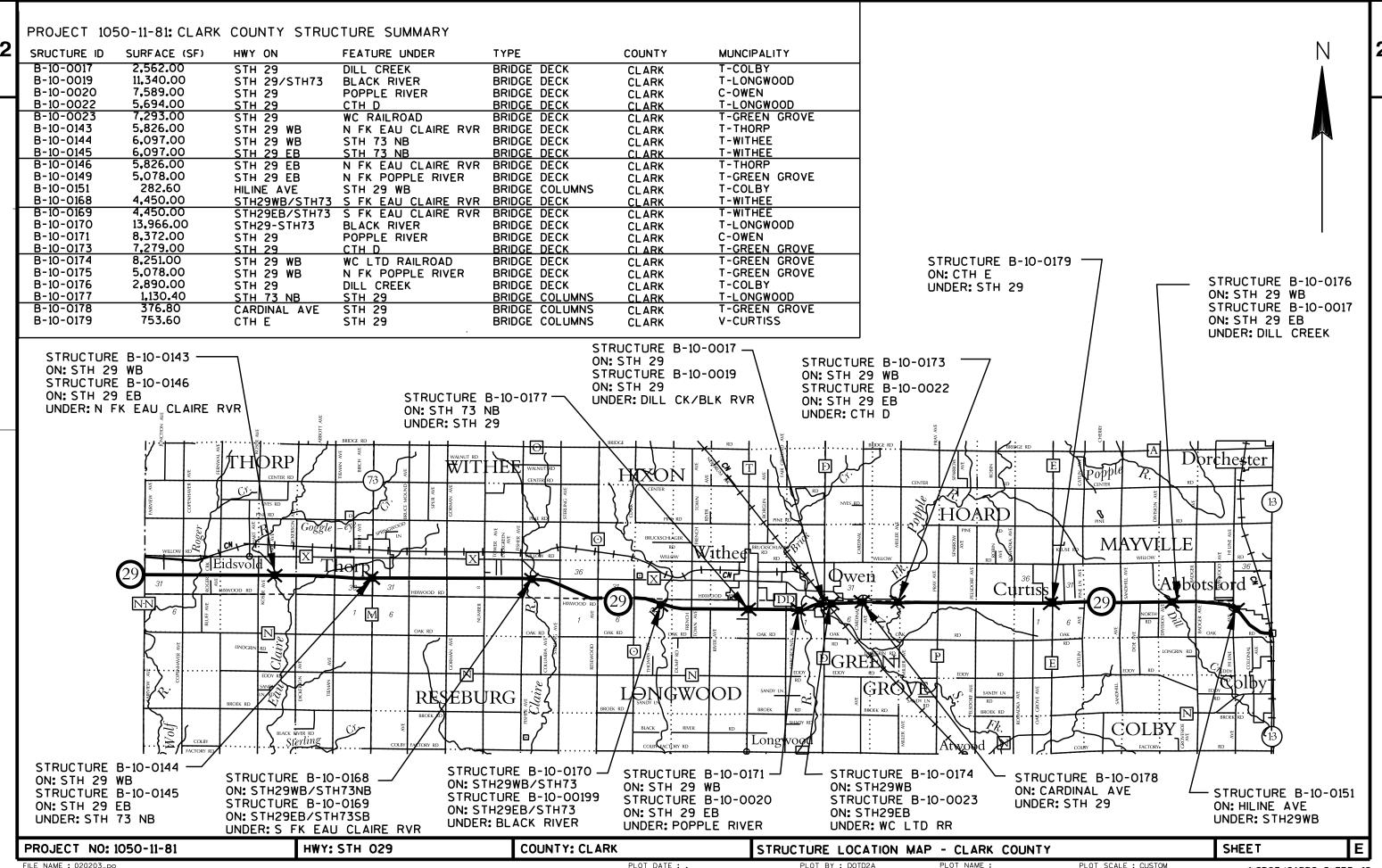
PLOT DATE: 03/01/2018 PLOT NAME : PLOT SCALE : CUSTOM PLOT BY : DOTD2A WISDOT/CADDS SHEET 42



FILE NAME : 020202_po

PLOT DATE : . PLOT BY : DOTD2A PLOT NAME : PLOT SCALE : CUSTOM WISDOT/CADDS SHEET 42





Estimate Of Quantities

1050-11-80 1050-11-81

Page	1
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Line	Item	Item Description	Unit	Total	Qty	Qty
0002	213.0100	Finishing Roadway (project) 01. 1050-11-80	EACH	1.000	1.000	
0004	213.0100	Finishing Roadway (project) 01. 1050-11-81	EACH	1.000		1.000
0006	502.3215.S	Protective Surface Treatment Reseal	SY	42,106.900	28,698.100	13,408.800
8000	619.1000	Mobilization	EACH	1.000	0.620	0.380
0010	628.7010	Inlet Protection Type B	EACH	12.000		12.000
0012	643.0300	Traffic Control Drums	DAY	5,500.000	3,300.000	2,200.000
0014	643.0420	Traffic Control Barricades Type III	DAY	120.000	70.000	50.000
0016	643.0705	Traffic Control Warning Lights Type A	DAY	225.000	135.000	90.000
0018	643.0715	Traffic Control Warning Lights Type C	DAY	1,630.000	980.000	650.000
0020	643.0800	Traffic Control Arrow Boards	DAY	225.000	135.000	90.000
0022	643.0900	Traffic Control Signs	DAY	1,630.000	980.000	650.000
0024	643.1051	Traffic Control Signs PCMS with Cellular Communications	DAY	50.000	25.000	25.000
0026	643.5000	Traffic Control	EACH	1.000	0.620	0.380

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					PROTECTIVE SURFACE	TREATMENT RESEAL		
				STRUCTURE				502.3215.s
			CATEGORY	ID	HWY ON	FEATURE UNDER	TYPE	SY
			0020	B-09-0019	CTH X	STH 29	BRIDGE COLUMNS	125.6
			0030	B-09-0020	STH 29 EB	CTH X	BRIDGE DECK	818.3
			0040	B-09-0022	CTH X	STH 29	BRIDGE COLUMNS	125.6
			0050	в-09-0030	CTH X/ 37TH AVE	STH 29	BRIDGE COLUMNS	94.2
1			0060	B-09-0031	STH 29 WB	STILLSON CREEK	BRIDGE DECK	571.3
			0070	B-09-0032	160TH ST	STH 29	BRIDGE COLUMNS	94.2
			0080	B-09-0033	50TH AVE	STH 29	BRIDGE COLUMNS	94.2
	FINISHING ROADWAY		0090	B-09-0034	СТН Ј	STH 29	BRIDGE COLUMNS	94.2
			0100	B-09-0035	STH 29 WB	190TH ST	BRIDGE DECK	494.9
		213.0100	0110	B-09-0036	195TH ST	STH 29	BRIDGE COLUMNS	94.2
	CATEGORY PROJECT	EACH	0120	B-09-0037	CTH K/STILLSON RD	STH 29	BRIDGE COLUMNS	94.2
	CATEGORT TROJECT	LACIT	0130	в-09-0038	STH 29 WB	PAINT CREEK	BRIDGE DECK	486.6
1	0010 1050 11 00		0140	B-09-0039	220TH ST	STH 29	BRIDGE COLUMNS	94.2
	0010 1050-11-80	1	0150	B-09-0171	STH 29 EB	STILLSON CREEK	BRIDGE DECK	776.8
			0160	B-09-0174	STH 29 EB	190TH ST	BRIDGE DECK	467.2
			0170	B-09-0175	STH 29 EB	PAINT CREEK	BRIDGE DECK	510.7
			0180	B-09-0176	CTH XX	STH 29	BRIDGE COLUMN	31.4 812.7
			0190 0200	В-09-0177 В-09-0179	STH 29 WB STH 27	CTH X STH 29	BRIDGE DECK BRIDGE COLUMNS	125.6
			0210	B-09-0179	CTH D	STH 29 STH 29	BRIDGE COLUMNS BRIDGE COLUMNS	167.5
			0220	B-09-0190	STH 29 WB	CTH H	BRIDGE DECK	683.7
			0230	B-09-0191	STH 29 EB	стн н	BRIDGE DECK	683.7
			0240	в-09-0206	STH 29 WB	ELK CREEK	BRIDGE DECK	357.7
			0250	B-09-0207	STH 29 EB	ELK CREEK	BRIDGE DECK	399.0
			0260	B-09-0208	CTH T	STH 29	BRIDGE COLUMNS	62.8
			0270	B-09-0209	STH 29 WB	CHIPPEWA RIVER	BRIDGE DECK	4006.9
			0280	B-09-0210	STH 29 EB	CHIPPEWA RIVER	BRIDGE DECK	3306.3
			0290	B-09-0211	110TH ST	STH 29	BRIDGE COLUMNS	31.4
			0300	B-09-0212	120TH ST	STH 29	BRIDGE COLUMNS	62.8
			0310	B-09-0213	STH 29 WB	UP RR	BRIDGE DECK	1172.6
			0320	B-09-0214	STH 29 EB	UP RR	BRIDGE DECK	929.8
			0330	B-09-0215	STH 29 WB	STH 124	BRIDGE DECK	1272.2
			0340	B-09-0216	STH 29 EB	STH 124	BRIDGE DECK	992.1
			0350	B-09-0217	STH 29 WB	USH 53	BRIDGE DECK	2349.2
			0360	B-09-0218	STH 29 EB	USH 53	BRIDGE DECK	2157.8
			0370	B-09-0219	130TH ST	STH 29	BRIDGE COLUMNS	31.4
	MOBILIZATION		0380	B-09-0220	CTH P	STH 29	BRIDGE COLUMNS	31.4
			0390	B-09-0221	40TH AVE	STH 29	BRIDGE COLUMNS	31.4
		619.1000	0400 0410	в-09-0222 в-09-0223	50TH AVE	STH 29 STH 29	BRIDGE COLUMNS	31.4 62.8
	CATECORY PROJECT		0420	B-09-0225	SEYMOUR CRAY SR BLVD SB SEYMOUR CRAY SR BLVD	STH 29	BRIDGE COLUMNS BRIDGE COLUMNS	31.4
	CATEGORY PROJECT	EACH	0430	B-09-0226	NB SEYMOUR CRAY SR BLVD	STH 29	BRIDGE COLUMNS	31.4
			0440	B-09-0241	CTH F	STH 29	BRIDGE COLUMNS	31.4
1	0010 1050-11-80	0.62	0450	B-09-0242	90TH ST	STH 29	BRIDGE COLUMNS	41.9
			0460	B-09-0243	STH 29 WB	103RD ST	BRIDGE DECK	486.7
			0470	B-09-0244	STH 29 EB	103RD ST	BRIDGE DECK	486.7
1			0480	в-09-0245	STH 29 OFF RAMP	STH 124	BRIDGE DECK	657.9
			0490	B-17-0059	IH 94 WB	USH12/STH29	BRIDGE COLUMNS	188.4
			0500	B-17-0060	IH 94 EB	USH12/STH29	BRIDGE COLUMNS	188.4
			0510	B-17-0116	USH12/STH29	UP RR	BRIDGE DECK	911.9
			0520	B-17-0163	USH12/STH29	UP RR	BRIDGE DECK	812.0
							TOTAL	28,698.1

		643.0300	643.0420	643.0705	643.0715	643.0800	643.0900	643.1051	643.5000
			BARRICADES	LIGHTS	LIGHTS	ARROW		SIGNS	TRAFFIC
		DRUMS	TYPE III	TYPE A	TYPE C	BOARDS	SIGNS	PCMS	CONTROL
CATEGORY	PROJECT	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	EACH
0010	1050-11-80	3300	70	135	980	135	980	25	0.62

PROJECT NO: 1050-11-80 HWY: STH 29 COUNTY: CHIPPEWA MISCELLANEOUS QUANTITIES SHEET: **E**

FILE NAME : __030201_mq__

PLOT DATE : ____

PLOT BY: DOTD2A

PLOT NAME : _____

PLOT SCALE : 1:1

FINISHING ROADWAY

CATEGORY PROJECT 213.0100 EACH
0010 1050-11-81 1

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MOBILIZATION

		619.1000
CATEGORY	PROJECT	EACH
0010	1050-11-81	0.38

INLET PROTECTION TYPE B

				628.7010
CATEGORY	STRUCTURE	ROADWAY	LOCATION	EACH
0040	B-10-0020	STH 29 EB	POPPLE RIVER	1
0060	B-10-0023	STH 29 EB	WIS CENT.RR	6
0170	B-10-0173	STH 29 WB	CTH D	1
0180	B-10-0174	STH 29 WB	WIS CENT. RR	4
			TOTAL	12

NOTE: INLET PROTECTION INCLUDES TWO INSTALLATIONS PER INLET. FIRST INSTALLATIONS IS WITH TYPE FF FABRIC DURING DECK PREPARATION AND CLEANING ACTIVITIES.

SECOND INSTALLATION IS WITH IMPERVIOUS FABRIC DURING

PROTECTIVE SURFACE TREATMENT RESEAL

	STRUCTURE				502.3215.s
CATEGORY	ID	HWY ON	FEATURE UNDER	TYPE	SY
0020	B-10-0017	STH 29 EB	DILL CREEK	BRIDGE DECK	284.7
0030	B-10-0019	STH 29 EB/STH 73 SB	BLACK RIVER	BRIDGE DECK	1260.0
0040	B-10-0020	STH 29 EB	POPPLE RIVER	BRIDGE DECK	843.2
0050	B-10-0022	STH 29 EB	CTH D	BRIDGE DECK	632.7
0060	B-10-0023	STH 29 EB	WC RR	BRIDGE DECK	810.3
0070	B-10-0143	STH 29 WB	N FK EAU CLAIRE RIVER	BRIDGE DECK	647.3
0800	B-10-0144	STH 29 WB	STH 73 NB	BRIDGE DECK	677.4
0090	B-10-0145	STH 29 EB	STH 73 NB	BRIDGE DECK	677.4
0100	B-10-0146	STH 29 EB	N FK EAU CLAIRE RIVER	BRIDGE DECK	647.3
0110	B-10-0149	STH 29 EB	N FK POPPLER RIVER	BRIDGE DECK	564.2
0120	B-10-0151	HILINE DRIVE	STH 29	BRIDGE COLUMNS	31.4
0130	B-10-0168	STH 29 WB/STH 73 NB	S FK EAU CLAIRE RIVER	BRIDGE DECK	494.4
0140	B-10-0169	STH 29 EB/STH 73 SB	S FK EAU CLAIRE RIVER	BRIDGE DECK	494.4
0150	B-10-0170	STH 29 WB/STH 73 NB	BLACK RIVER	BRIDGE DECK	1551.8
0160	в-10-0171	STH 29 WB	POPPLE RIVER	BRIDGE DECK	930.2
0170	B-10-0173	STH 29 WB	CTH D	BRIDGE DECK	808.8
0180	B-10-0174	STH 29 WB	WC RR	BRIDGE DECK	916.8
0190	B-10-0175	STH 29 WB	N FK POPPLE RIVER	BRIDGE DECK	564.2
0200	B-10-0176	STH 29 WB	DILL CREEK	BRIDGE DECK	321.1
0210	в-10-0177	STH 73 NB	STH 29	BRIDGE COLUMNS	125.6
0220	B-10-0178	CARDINAL AVE	STH 29	BRIDGE COLUMNS	41.9
0230	в-10-0179	CTH E	STH 29	BRIDGE COLUMNS	83.7

TOTAL 13408.8

TRAFFIC CONTROL

		643.0300 DRUMS	643.0420 BARRICADES TYPE III	643.0705 LIGHTS TYPE A	643.0715 LIGHTS TYPE C	643.0800 ARROW BOARDS	643.0900 SIGNS	643.1051 SIGNS PCMS	643.5000 TRAFFIC CONTROL
CATEGORY	PROJECT	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	EACH
0010	1050-11-81	2200	50	90	650	90	650	25	0.38

PROJECT NO: 1050-11-81 HWY: STH 29 COUNTY: CLARK & DUNN MISCELLANEOUS QUANTITIES SHEET: **E**

FILE NAME : ___030201_mq_____

PLOT DATE : ____

PLOT BY: DOTD2A

PLOT NAME : ___

PLOT SCALE : 1:1

Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
15С11-07В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D12-07A	TRAFFIC CONTROL, LANE CLOSURE
15D12-07B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D15-04A	TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-04B	TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-04C	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-04D	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS





INLET PROTECTION, TYPE A

GENERAL NOTES

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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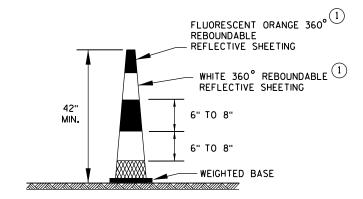
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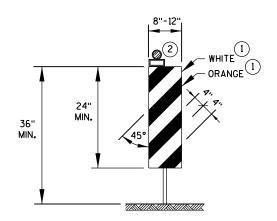
TYPE 2 BARRICADE

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



42" CONE

DO NOT USE IN TAPERS 1/2 SPACING OF DRUMS

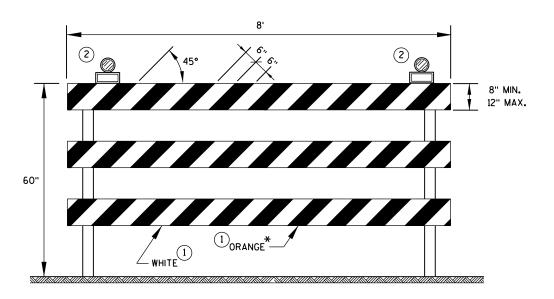


VERTICAL PANEL

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

GENERAL NOTES

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



TYPE 3 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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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APPROVED

June 2017
DATE

WORK ZONE ENGINEER
FHWA

S.D.D. 15 C 1

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS

NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

WORK ZONE ENGINEER

TRAFFIC CONTROL DRUM

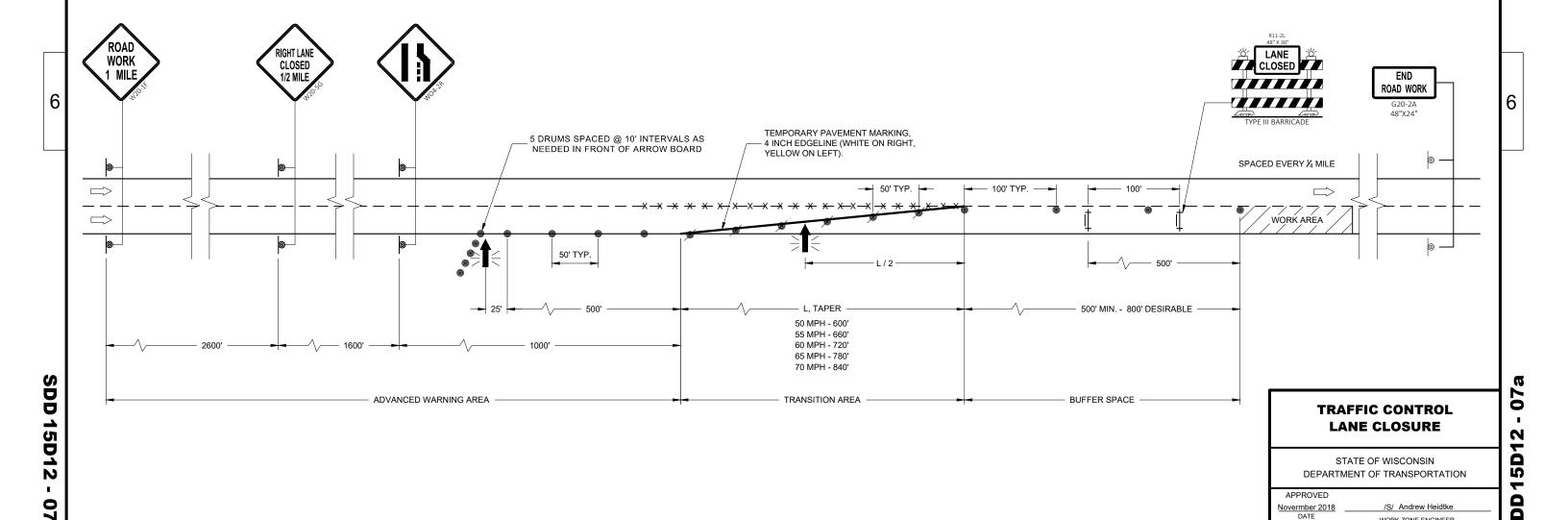
TYPE "A" WARNING LIGHT (FLASHING)

REMOVING PAVEMENT MARKING

DIRECTION OF TRAFFIC

WORK AREA

FLASHING ARROW BOARD



GENERAL NOTES LEGEND THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS. THE ADVANCED TYPE III BARRICADE WITH ATTACHED SIGN TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS. THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS SIGN ON PERMANENT SUPPORT MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS. TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE. WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION. ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED. IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET. "WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE. TRAFFIC CONTROL DRUM ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER. TYPE "A" WARNING LIGHT (FLASHING) ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS. THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL REMOVING PAVEMENT MARKING CHANGE SUCH AS A CROSSOVER MANEUVER. * A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF DIRECTION OF TRAFFIC EACH ENTRANCE RAMP, PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES, INCLUDE A RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIRABLE) BEYOND THE "END OF ROADWORK" SIGN. WORK AREA FLASHING ARROW BOARD SPEED LIMIT 60 OR SPEEC LIMIT 55 CLOSED 1/2 MILE 6 TEMPORARY PAVEMENT MARKING, - 4 INCH EDGELINE (WHITE ON RIGHT, 5 DRUMS SPACED @ 10' INTERVALS AS YELLOW ON LEFT). SPACED EVER 1/4 MILE NEEDED IN FRONT OF ARROW BOARD , WORK AREA — 500' L, TAPER 500' MIN. - 800' DESIRABLE 55 MPH - 660' 60 MPH - 720'

TRANSITION AREA

TRAFFIC CONTROL, LANE CLOSURE, **SPEED REDUCTION**

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ROAD WORK

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

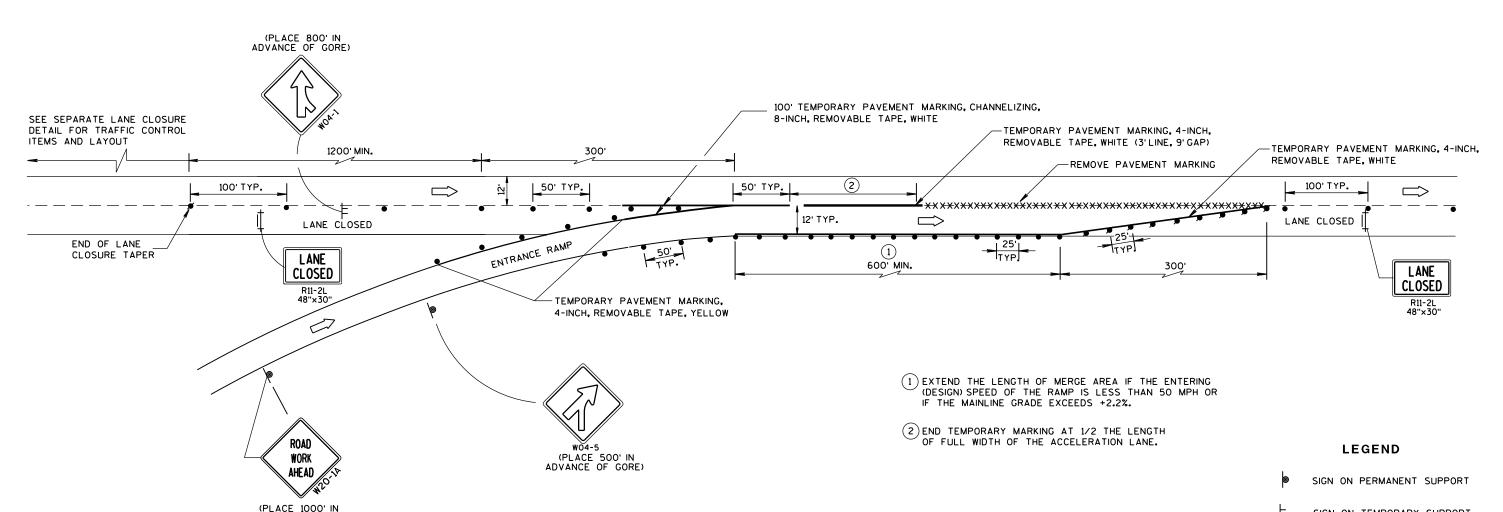
APPROVED

BUFFER SPACE

November 2018 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

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ADVANCED WARNING AREA



PARALLEL ENTRANCE RAMP

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

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

ADVANCE OF GORE)

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS. OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TYPE III BARRICADE WITH ATTACHED SIGN

REMOVING PAVEMENT MARKING

DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED					
Sept., 2017	/S/ Andrew Heidtke				
DATE	WORK ZONE ENGINEER				

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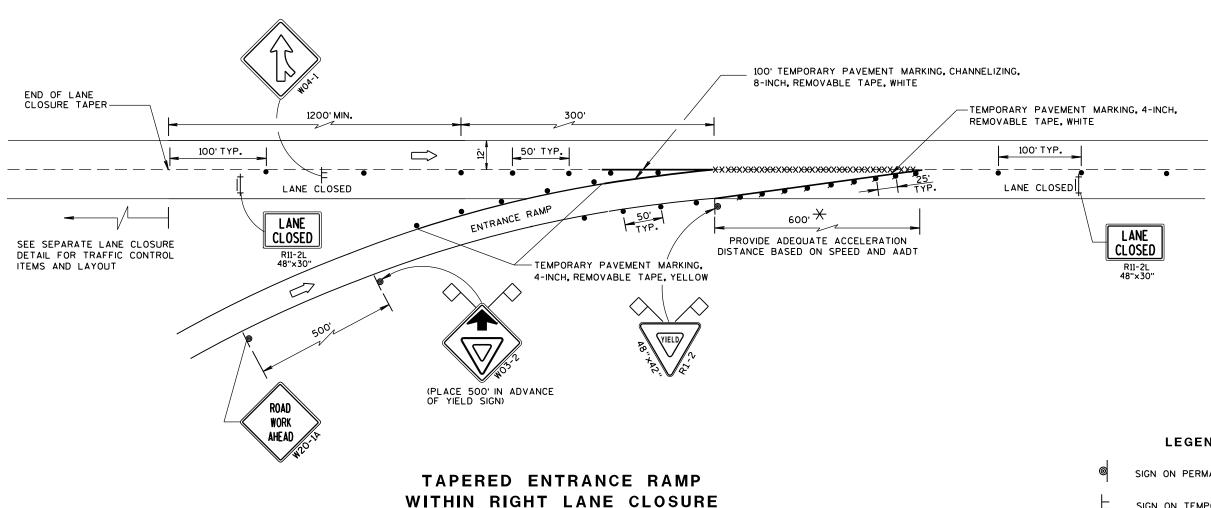
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GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE, OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS. OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING. REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

X CONSULT WITH REGIONAL WORK ZONE ENGINEER IF NEED TO REDUCE LENGTH EXISTS.

LEGEND

SIGN ON PERMANENT SUPPORT

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SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

> TYPE III BARRICADE WITH ATTACHED SIGN

FLAGS, 16" × 16" MIN., (ORANGE)

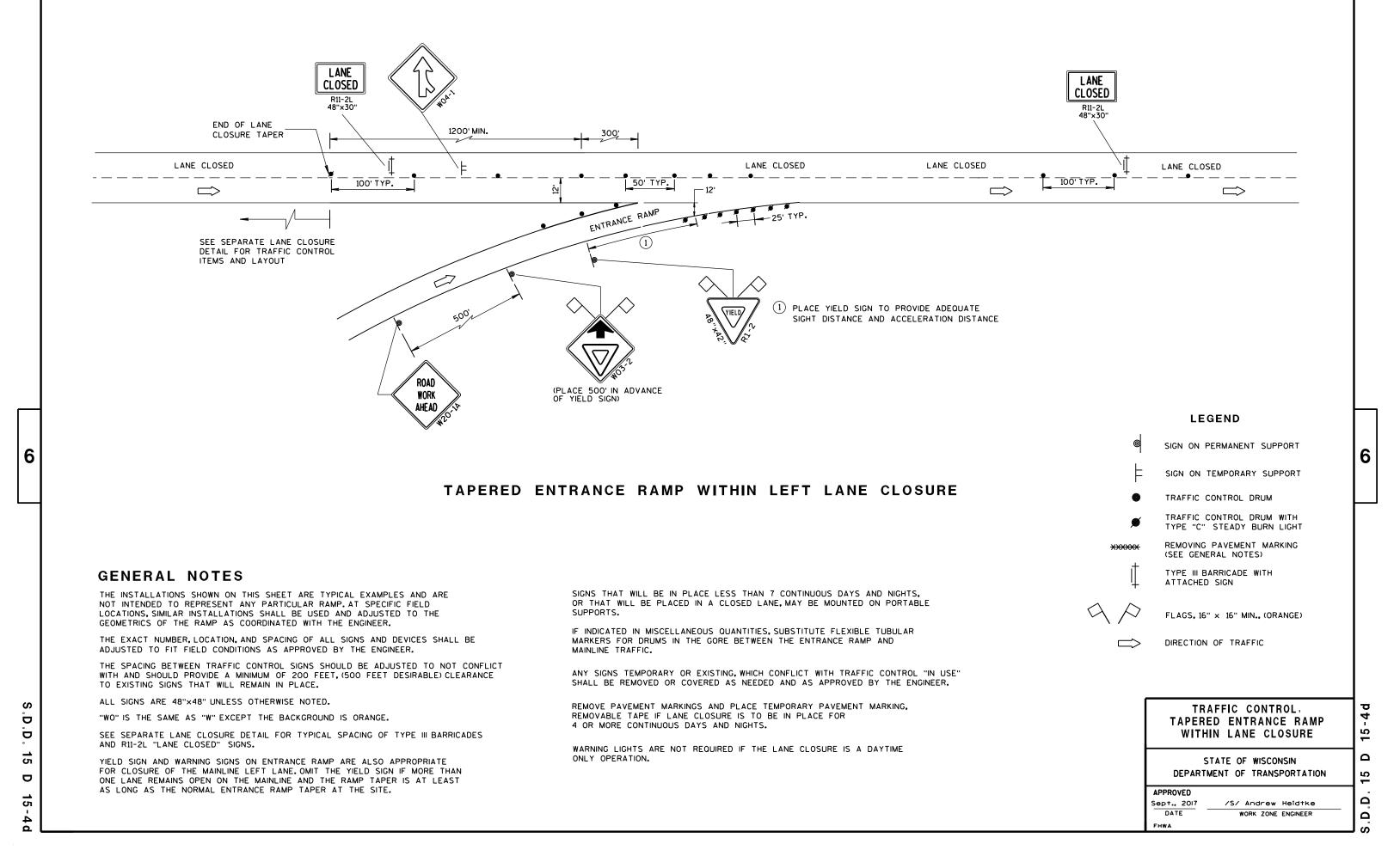
DIRECTION OF TRAFFIC

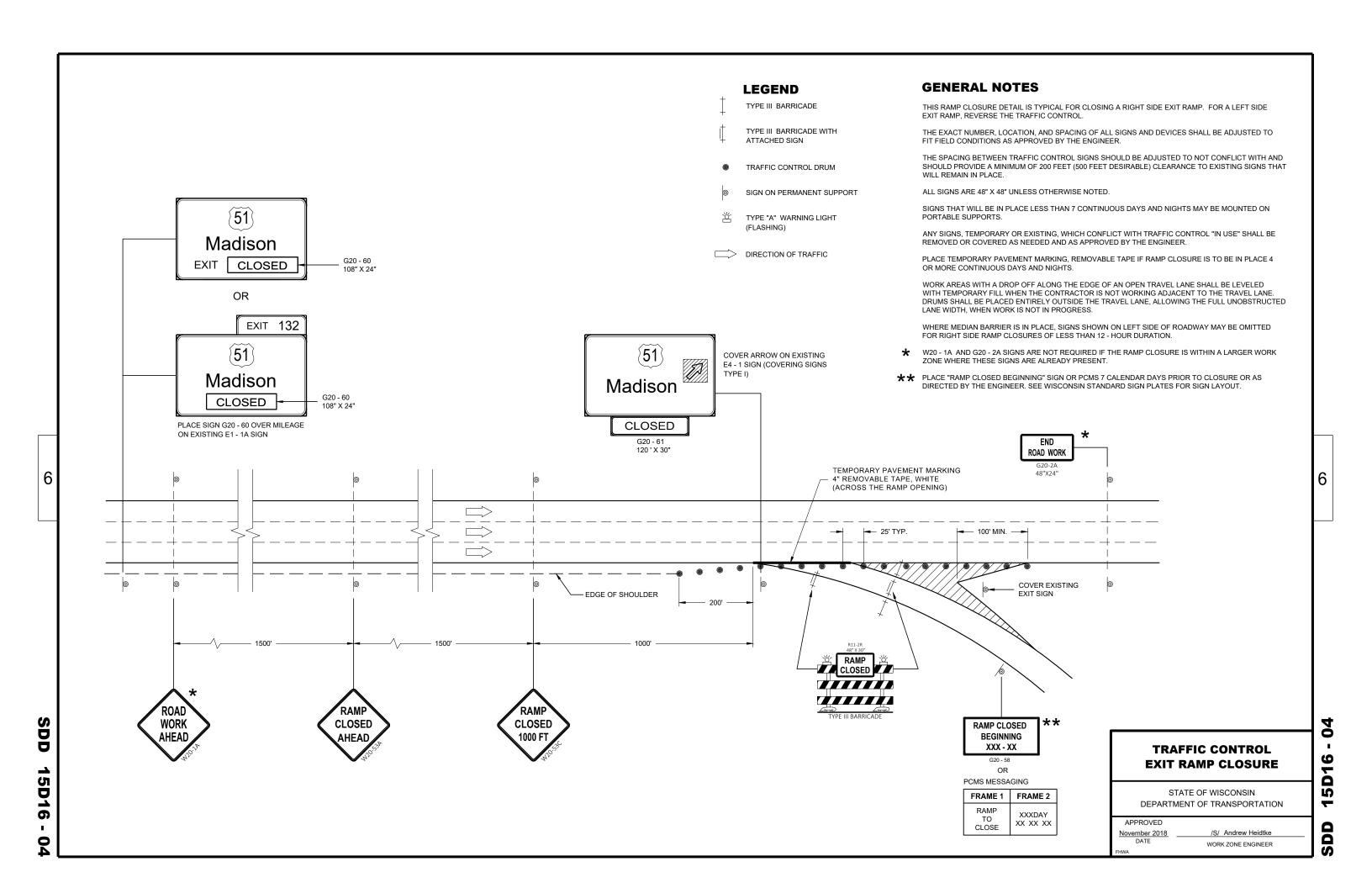
TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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Sept., 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
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TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL 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

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

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

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF	
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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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 ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 /S/ Andrew Heidtke DATE WORK ZONE ENGINEER FHWA

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Notes



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