PROJECT ID: WITH: 1030-07-78

030-07-77

MILWAUKE

# May 11, 2021 ORDER OF SHEETS Section No.

Typical Sections and Details Estimate of Quantities Section No. Section No. Miscellaneous Quantities Right of Way Plat Section No. Section No. Standard Detail Drawings

Section No.

TOTAL SHEETS =

#### DESIGN DESIGNATION

AADT 2018 = 104000 A.A.D.T. D.H.V. D.D. DESIGN SPEED = 70 MPH

#### CONVENTIONAL SYMBOLS

<u>PLAN</u> CORPORATE LIMITS
PROPERTY LINE
LOT 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

GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER STORM SEWER TELEPHONE POWER POLE ₫ Ø TELEPHONE POLE

PROFILE

# STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

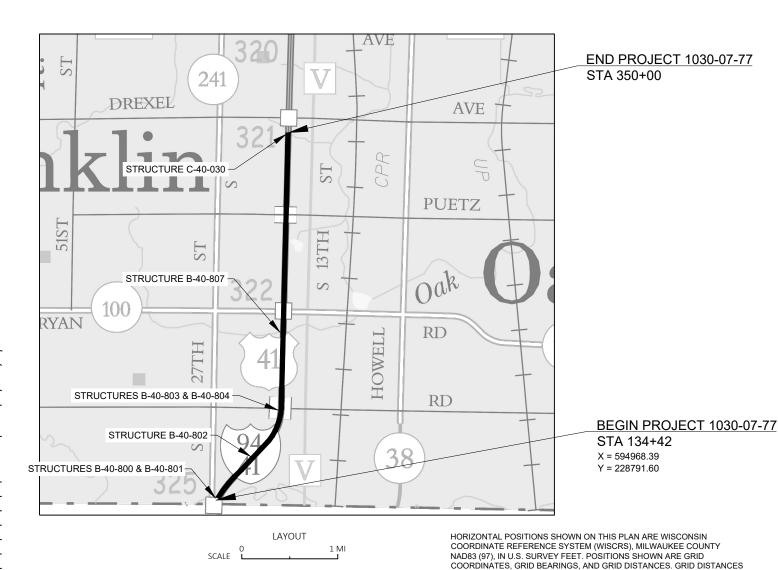
PLAN OF PROPOSED IMPROVEMENT

# **IH 41 NORTH SOUTH FREEWAY**

**MILWAUKEE CO LINE TO STH 100** 

IH 41 **MILWAUKEE COUNTY** 

> STATE PROJECT NUMBER 1030-07-77



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> PREPARED BY Surveyor Designer Project Manage Regional Examiner

FEDERAL PROJECT

PROJECT

CONTRACT

STATE PROJECT

1030-07-77

PPROVED FOR THE DEPARTMENT

Evan Limberatos DATE: 10/29/2020

Ε

ELEVATIONS ARE REFERENCED TO NAVD 88 (2007). GPS DERIVED

ARE THE SAME AS GROUND DISTANCES.

FILE NAME: N:\PDS\C3D\10300707\SHEETSPLAN\010101\_TI.DWG

TOTAL NET LENGTH OF CENTERLINE = 0.000

9/15/2020 10:03 AM

JOHANSEN, AMANDA A

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.

EROSION CONTROL BMP'S ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTAINED UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.

INLET PROTECTION IS REQUIRED AT ALL INLETS AS PER DETAIL OR AS DIRECTED BY THE ENGINEER.

#### ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES PROJECT OVERVIEW CONSTRUCTION DETAILS PLAN DETAILS TRAFFIC CONTROL ALIGNMENT LAYOUT

#### OTHER CONTACTS

### WISCONSIN DEPARTMENT OF TRANSPORTATION

EVAN LIMBERATOS - PROJECT MANAGER 141 NW BARSTOW ST WAUKESHA, WI 53187 PHONE: (262) 548-8797 CELL: (414) 750-3362 evan.limberatos@dot.wi.gov

#### WISCONSIN DEPARTMENT OF NATURAL RESOURCES

KRISTINA BETZOLD 2300 N MARTIN LUTHER KING JR DR MILWAUKEE, WI 53212 PHONE: (414) 263-8517 CELL: (414) 507-4946 kristina.betzold@wisconsin.gov

#### MILWAUKEE COUNTY TRANSIT SYSTEM (MCTS)

1942 N 17TH ST MILWAUKEE, WI 53205

MELANIE FLYNN COORDINATOR OF STREET SUPERVISION (ROUTES) PHONE: (414) 343-1764 mflynn@mcts.org

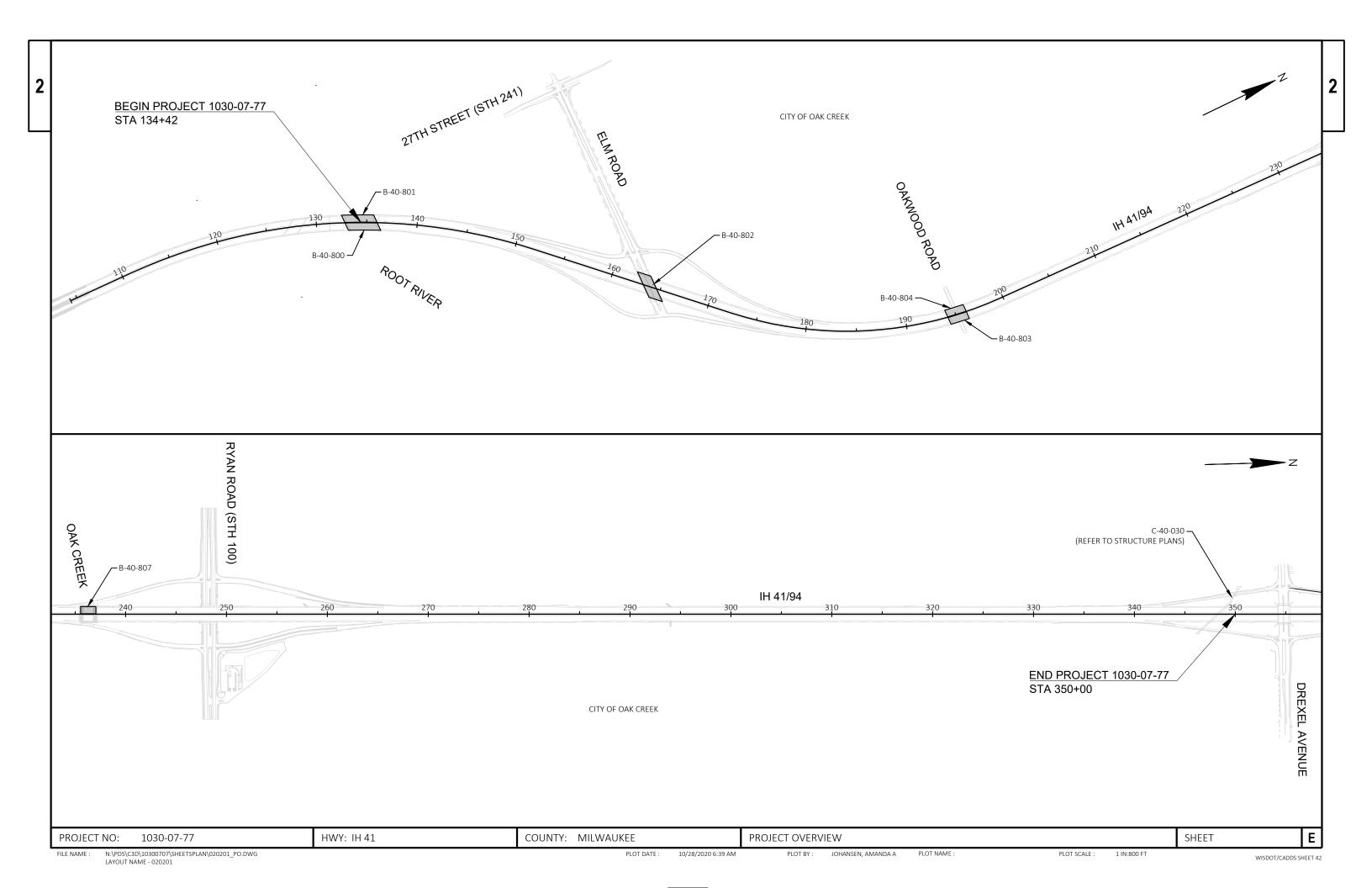
TRANSPORTATION SPECIALIST PHONE: (414) 343-1727 dlocher@mtcs.org

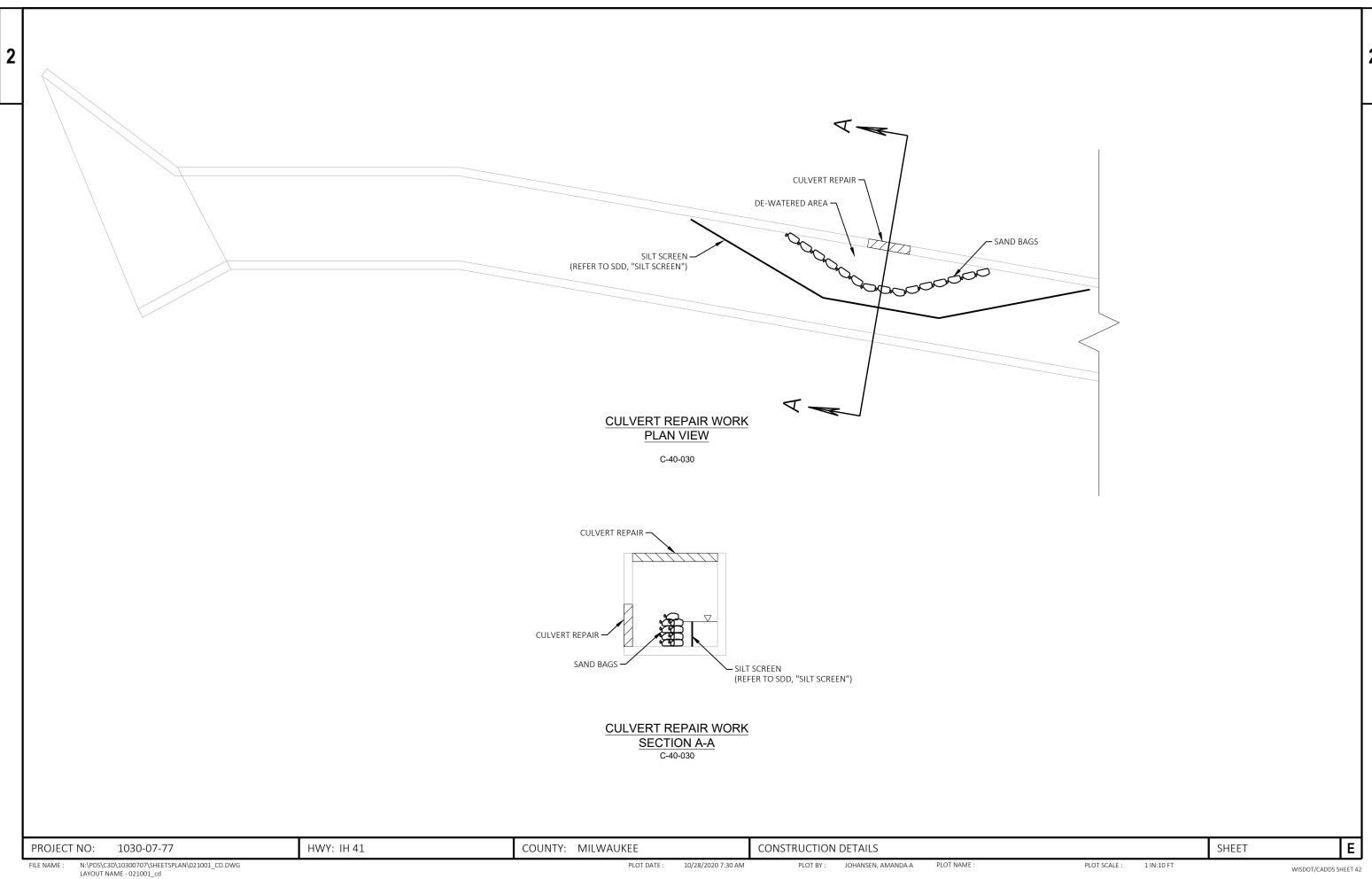
> Dial 811 or (800)242-8511 www.DiggersHotline.com

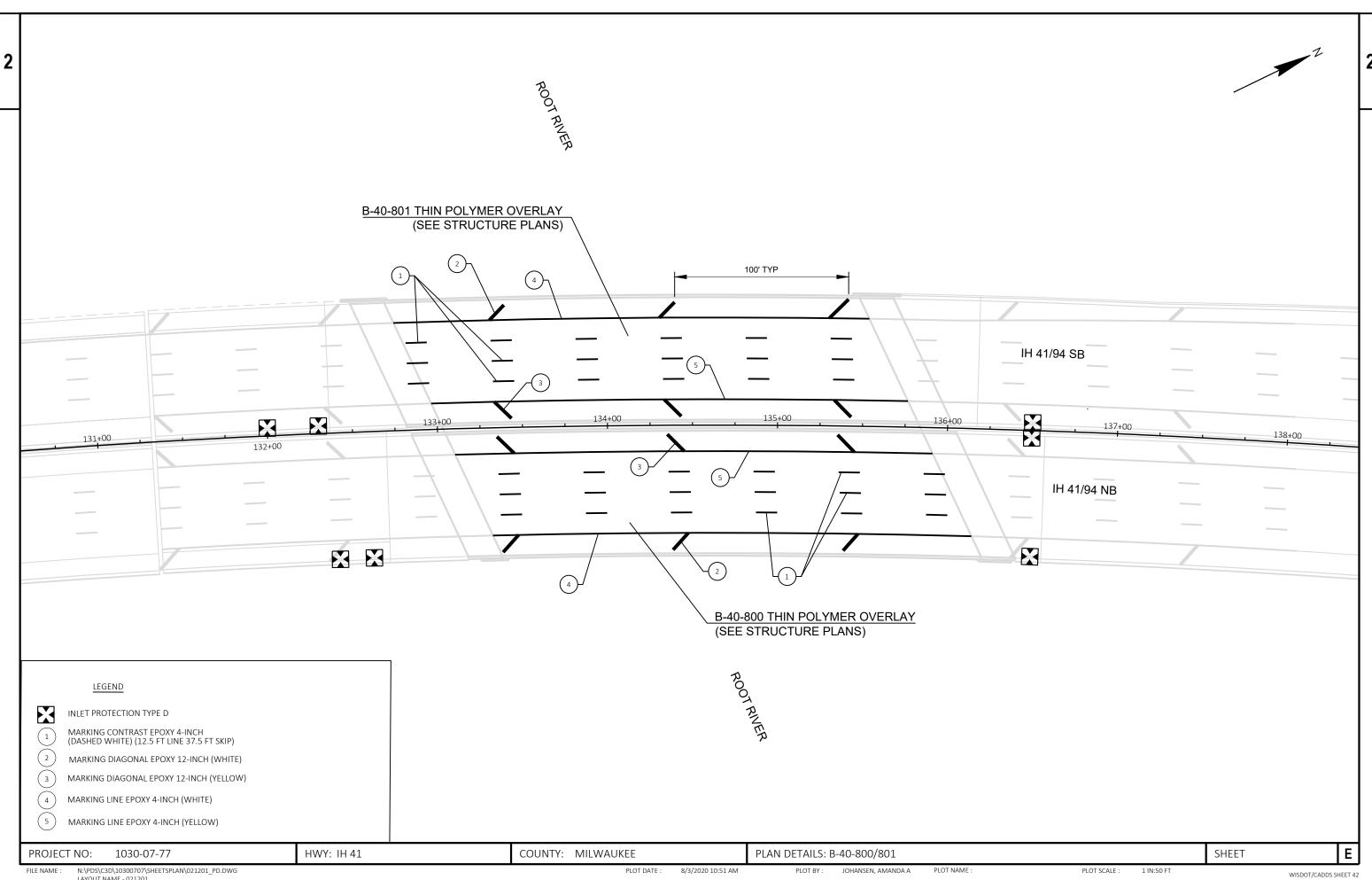
Ε PROJECT NO: 1030-07-77 HWY: IH 41 COUNTY: MILWAUKEE **GENERAL NOTES SHEET** \\WKERTOVFILPI01\N3PUBLIC\PDS\C3D\10300707\SHEETSPLAN\020101\_GN.DWG PLOT BY: JOHANSEN, AMANDA A 3/24/2021 4:19 PM PLOT NAME : 1 IN:100 FT FILE NAME :

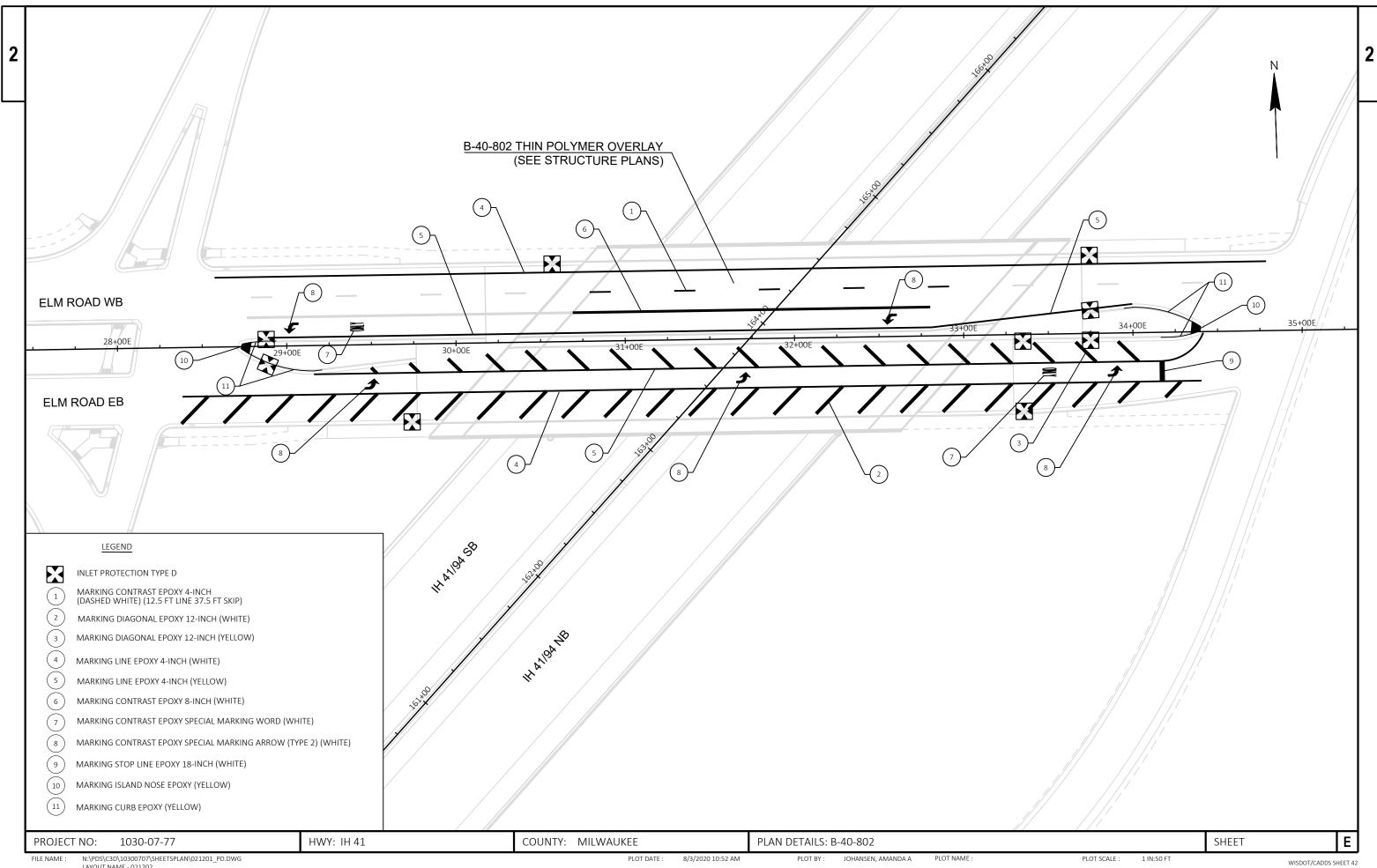
LAYOUT NAME - 020101

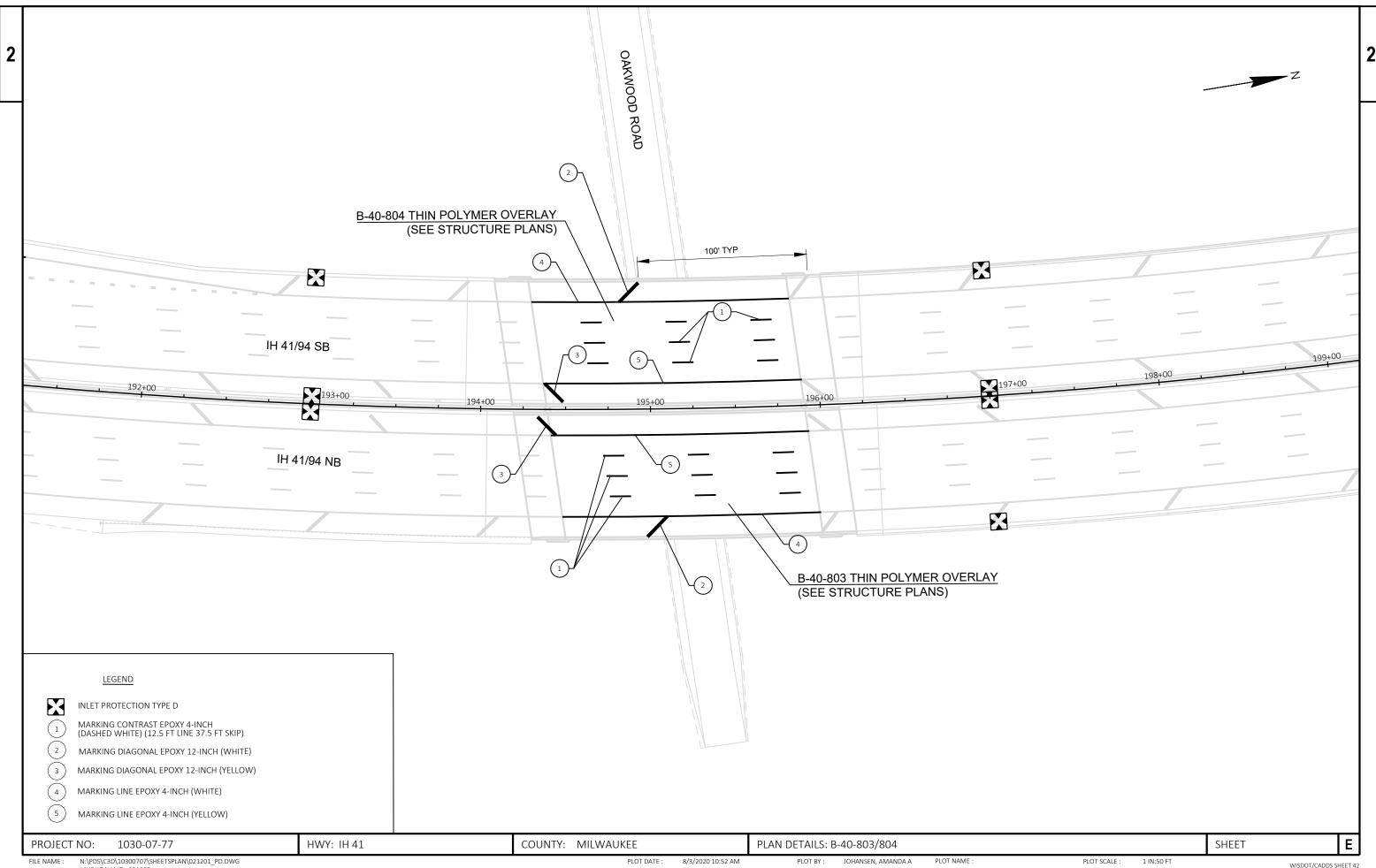
PLOT SCALE :







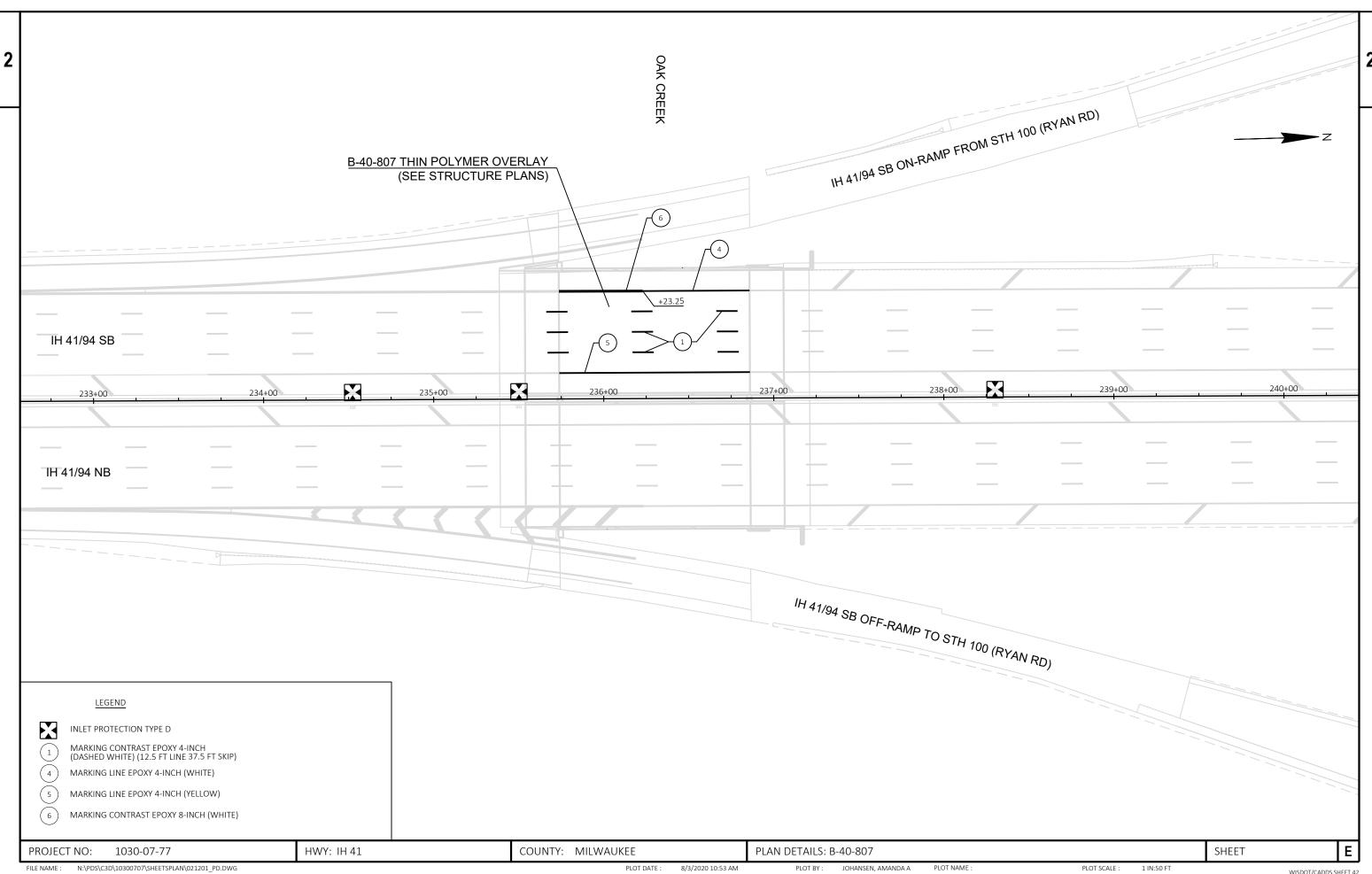




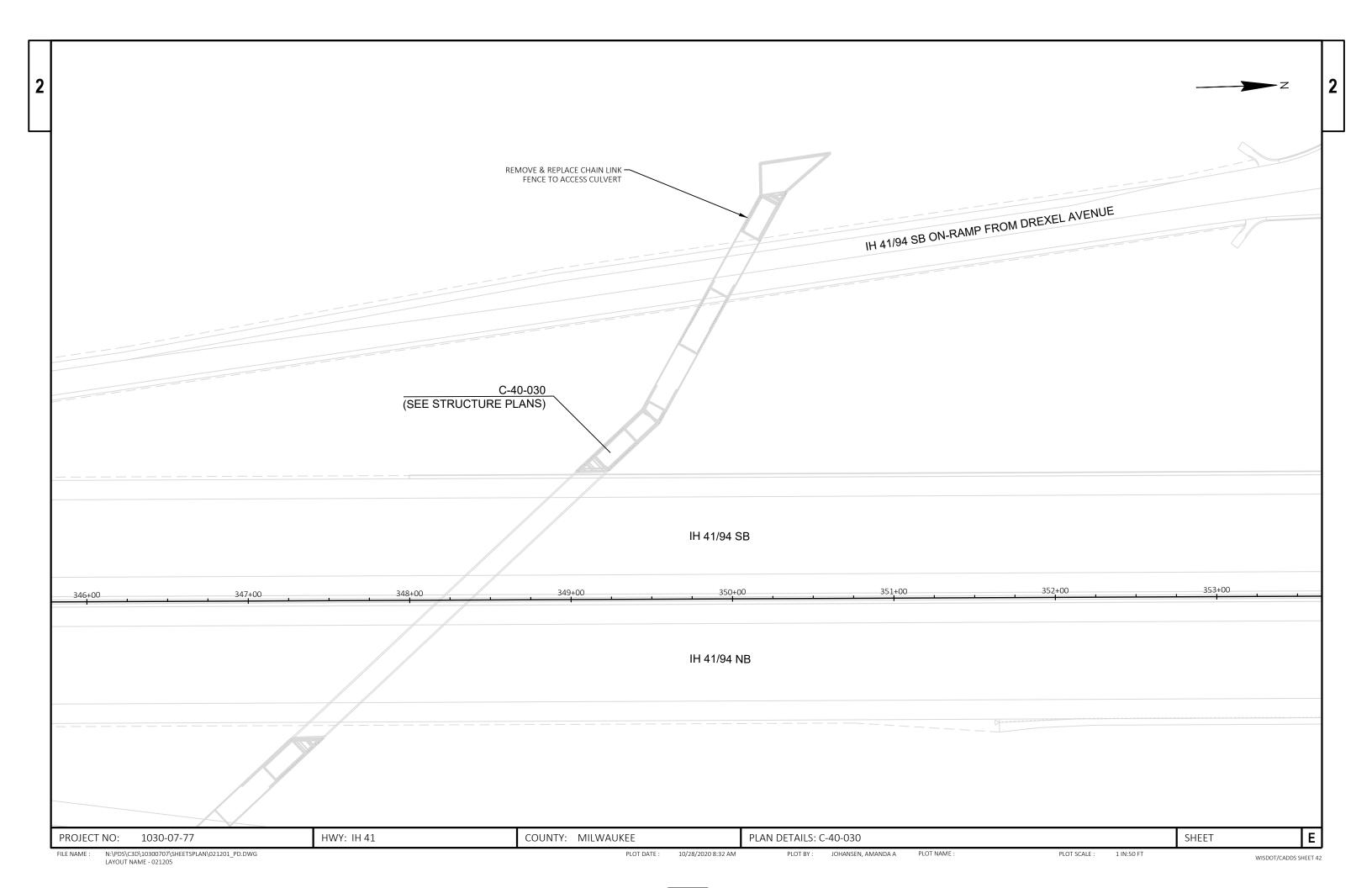
PLOT NAME :

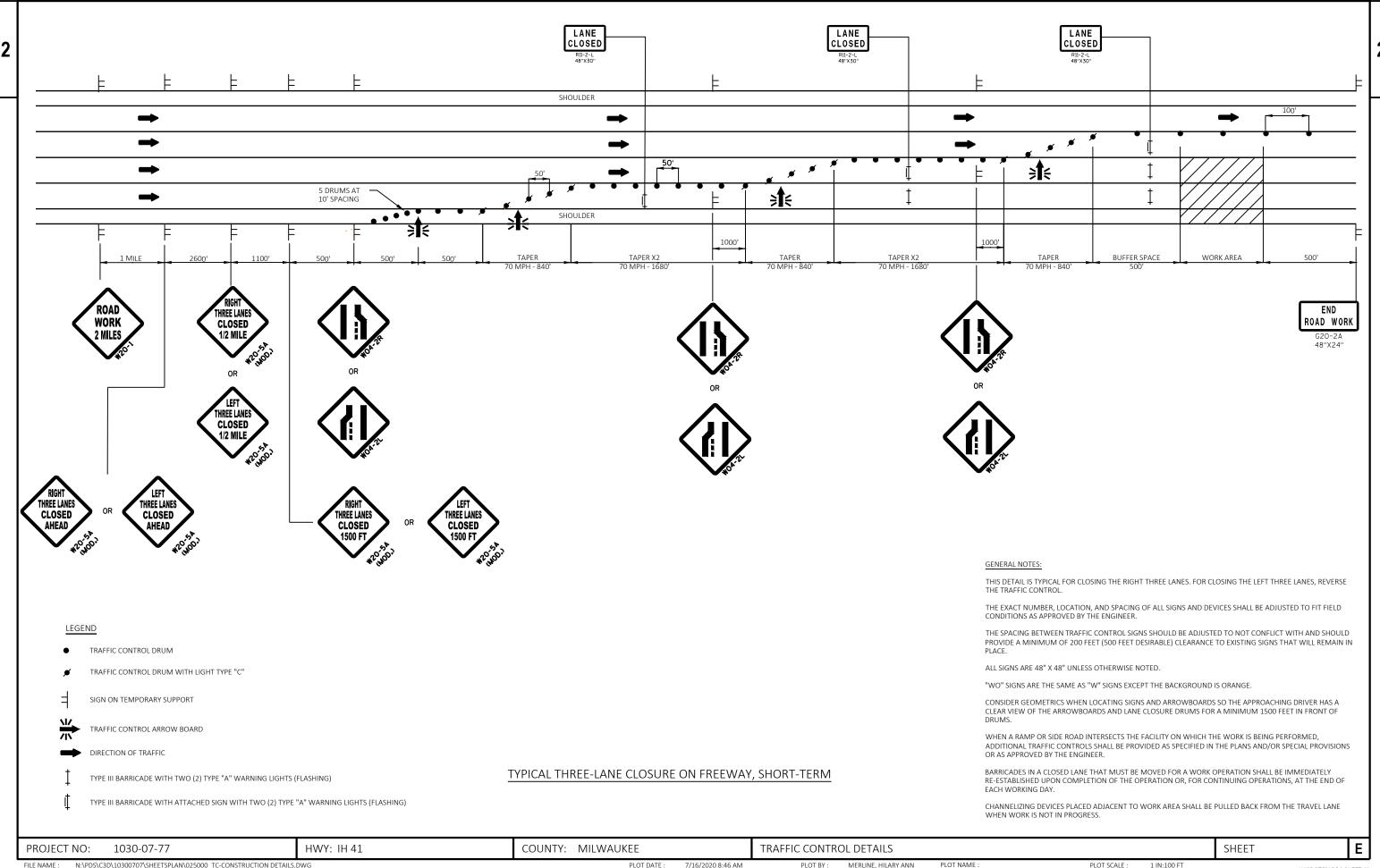
PLOT SCALE :

WISDOT/CADDS SHEET 42



WISDOT/CADDS SHEET 42





N:\PDS\C3D\10300707\SHEETSPLAN\025000\_TC-CONSTRUCTION DETAILS.DWG

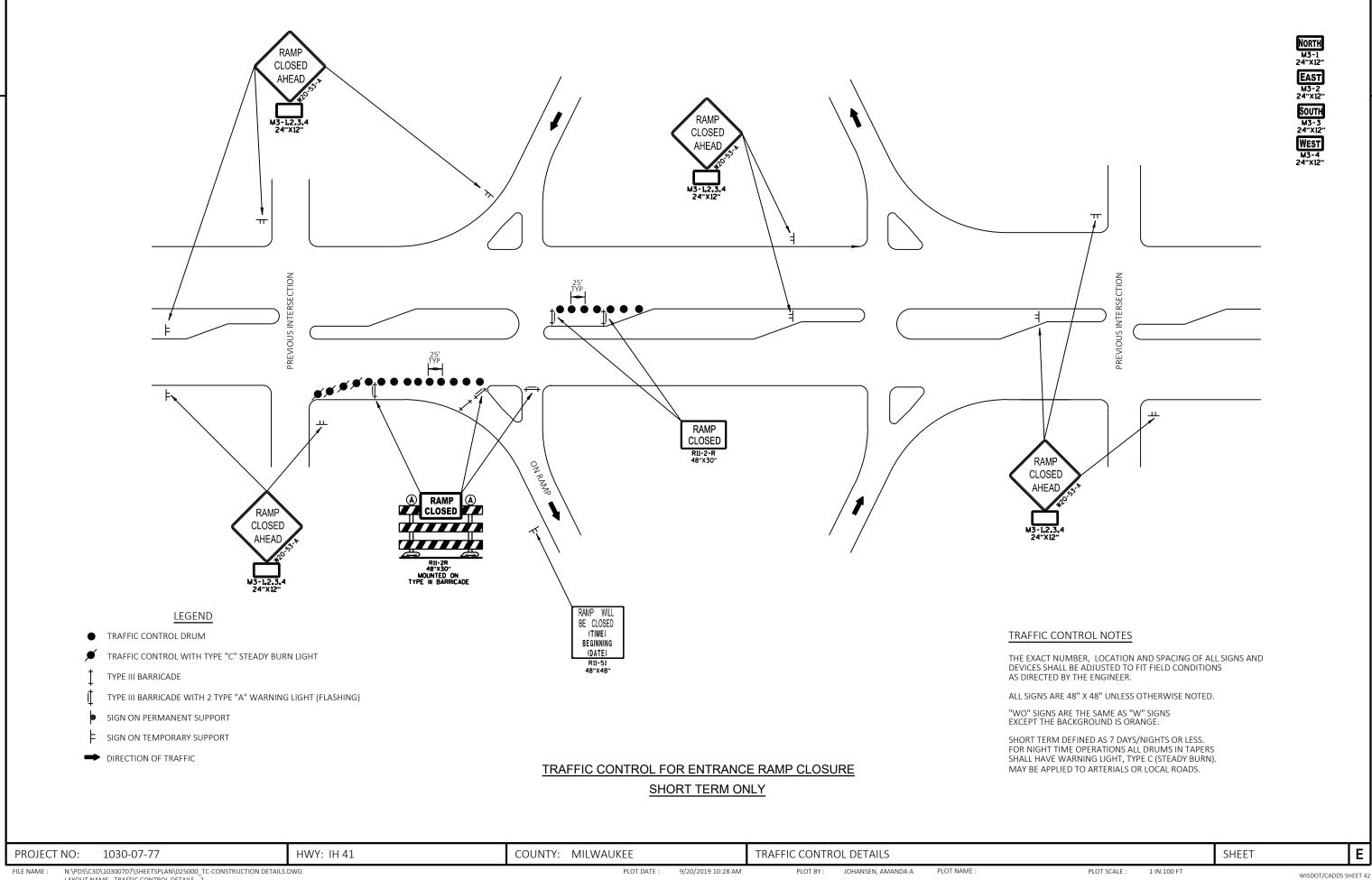
PLOT DATE: 7/16/2020 8:46 AM

PLOT BY: MERLINE, HILARY ANN

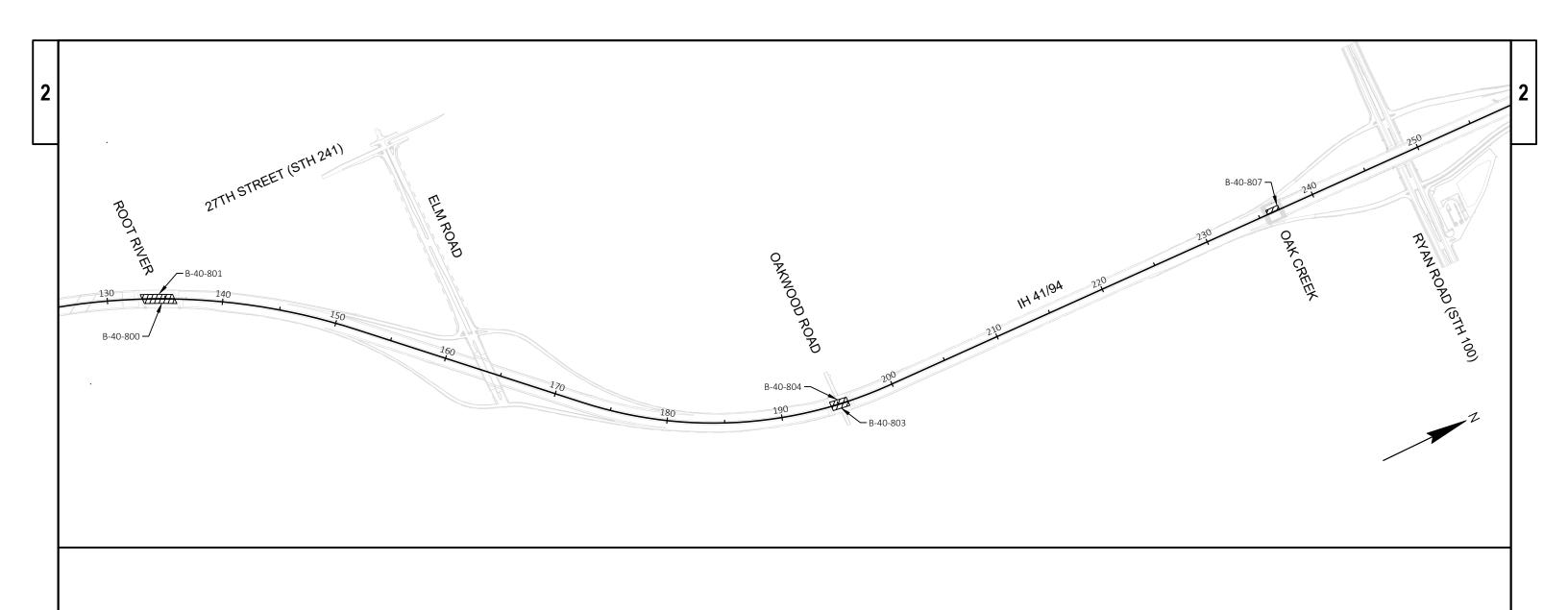
PLOT NAME: PLOT SCALE: 1 IN:100 FT

WISDOT/CADDS SHEET 42

WISDOT/CADDS SHEET 42



N:\PDS\C3D\10300707\SHEETSPLAN\025000 TC-CONSTRUCTION DETAILS.DWG 9/20/2019 10:28 AM PLOT BY: JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:100 FT LAYOUT NAME - TRAFFIC CONTROL DETAILS - 2



#### GENERAL NOTES:

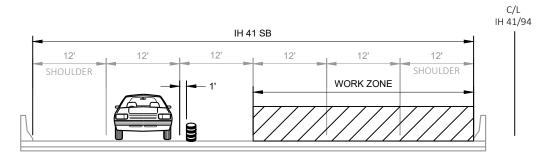
REFER TO CONSTRUCTION DETAIL, "TYPICAL THREE-LANE CLOSURE ON FREEWAY, SHORT-TERM."

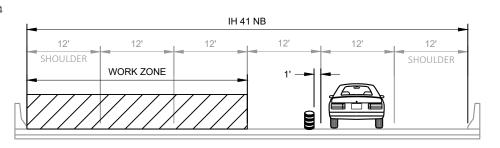
#### STAGE 1:

A THIN POLYMER OVERLAY (TPO) IS APPLIED ON THE TWO INSIDE LANES AND SHOULDER OF IH 41/94 (BOTH DIRECTIONS).

ALL WORK COMPLETED DURING STAGE 1 IS NIGHT TIME WORK.

IN THIS STAGE, THE FOLLOWING MOVEMENTS ARE CLOSED: -THE THREE INSIDE LANES OF IH 41/94





PLOT SCALE :

1 IN:800 FT

# TYPICAL SECTION

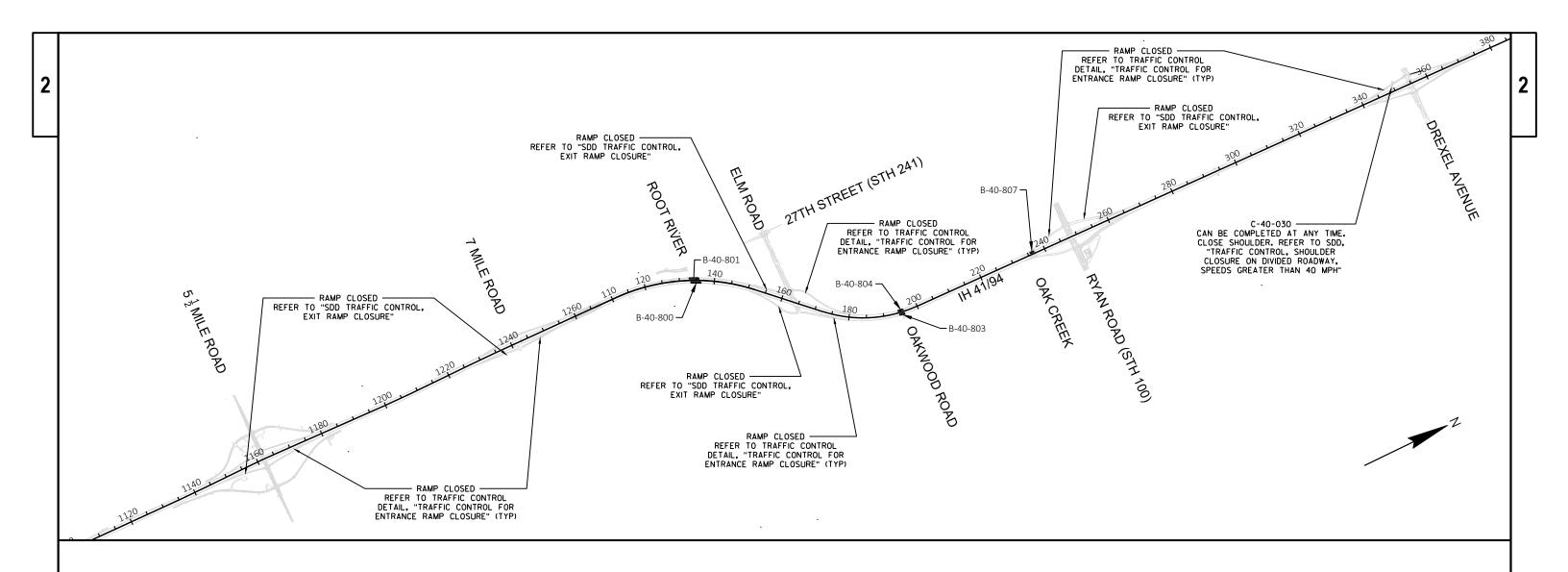
IH 41/94 - STAGE 1

B-40-800, B-40-801, B-40-803, B-40-804, B-40-807

COUNTY: MILWAUKEE Ε PROJECT NO: 1030-07-77 HWY: IH 41 TRAFFIC CONTROL - STAGE 1 OVERVIEW SHEET MERLINE, HILARY ANN

7/8/2020 11:16 AM

PLOT DATE :



#### **GENERAL NOTES**:

REFER TO CONSTRUCTION DETAIL, "TYPICAL THREE-LANE CLOSURE ON FREEWAY, SHORT-TERM."

#### STAGE 2:

A THIN POLYMER OVERLAY (TPO) IS APPLIED ON THE TWO OUTSIDE LANES AND SHOULDER OF IH 41/94 (BOTH DIRECTIONS).

CULVERT REPAIR WORK (CAN BE COMPLETED AT ANY TIME).

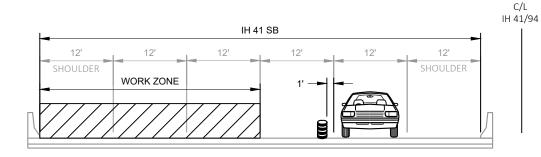
ALL WORK COMPLETED DURING STAGE 2 IS NIGHT TIME WORK.

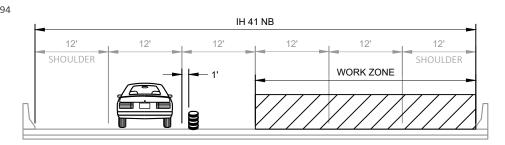
# TRAFFIC:

FILE NAME :

IN THIS STAGE, THE FOLLOWING MOVEMENTS ARE CLOSED:

- -THE THREE OUTSIDE LANES OF IH 41/94
- -THE IH 41 SB ON-RAMP FROM DREXEL AVENUE
- -THE IH 41 SB ON AND OFF-RAMPS FROM STH 100/RYAN ROAD
- -THE IH 41 NB & SB ON AND OFF-RAMPS FROM ELM ROAD
- -THE IH 41 NB ON AND OFF-RAMPS FROM 7 MILE ROAD
- -THE IH 41 NB ON AND OFF-RAMPS FROM 5  $\frac{1}{2}$  MILE ROAD





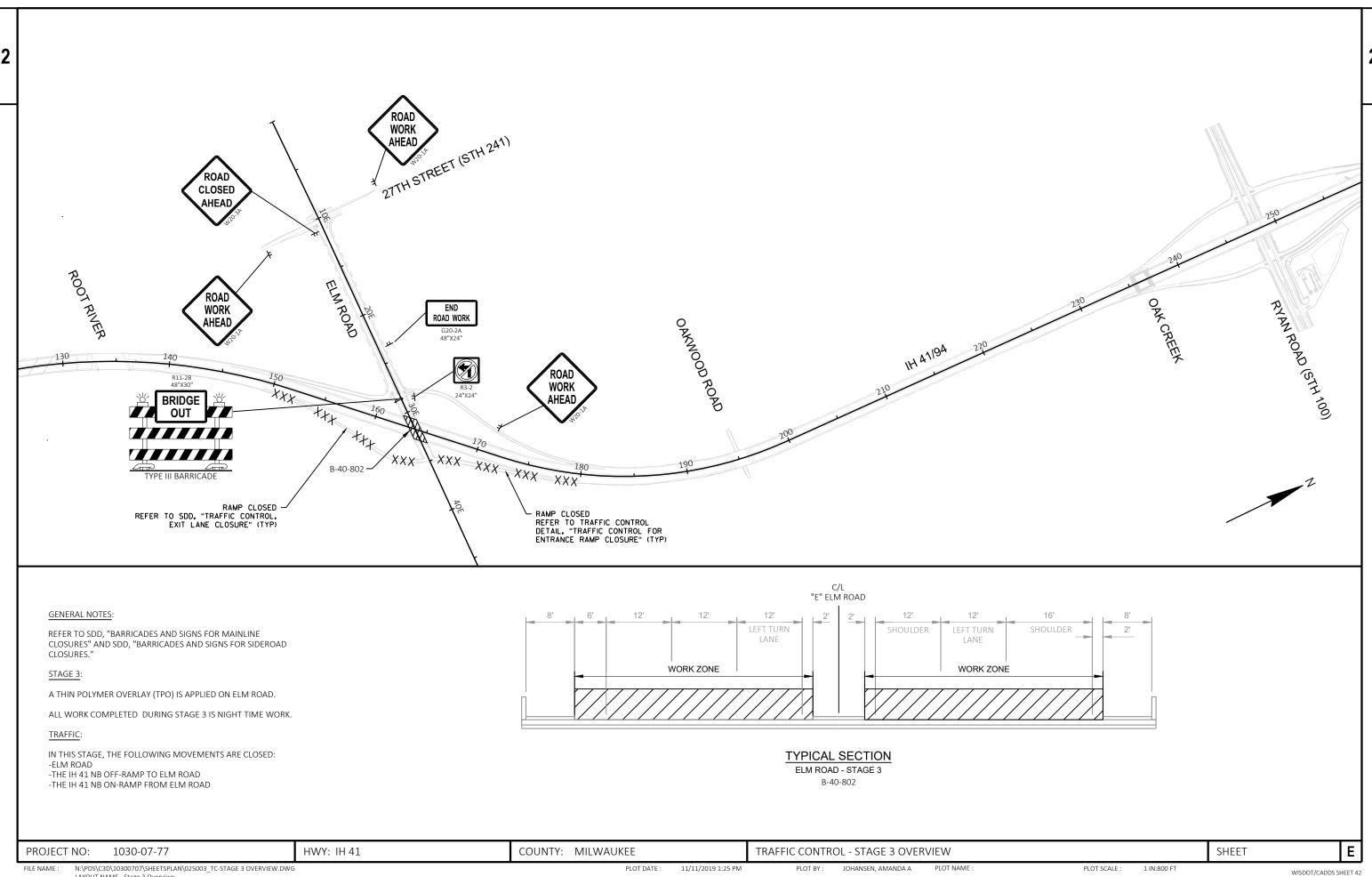
# TYPICAL SECTION

IH 41/94 - STAGE 2

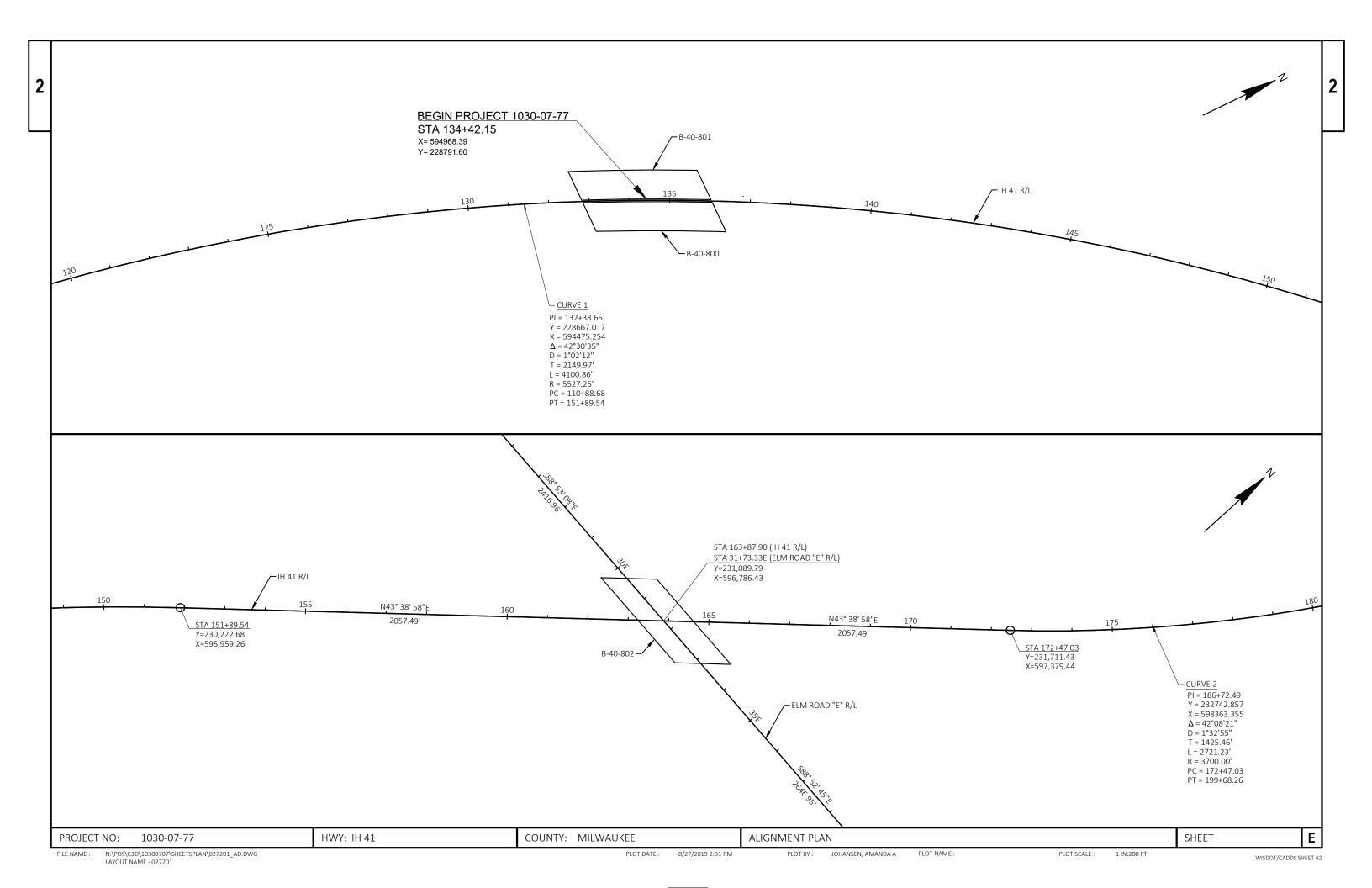
B-40-800, B-40-801, B-40-803, B-40-804, B-40-807

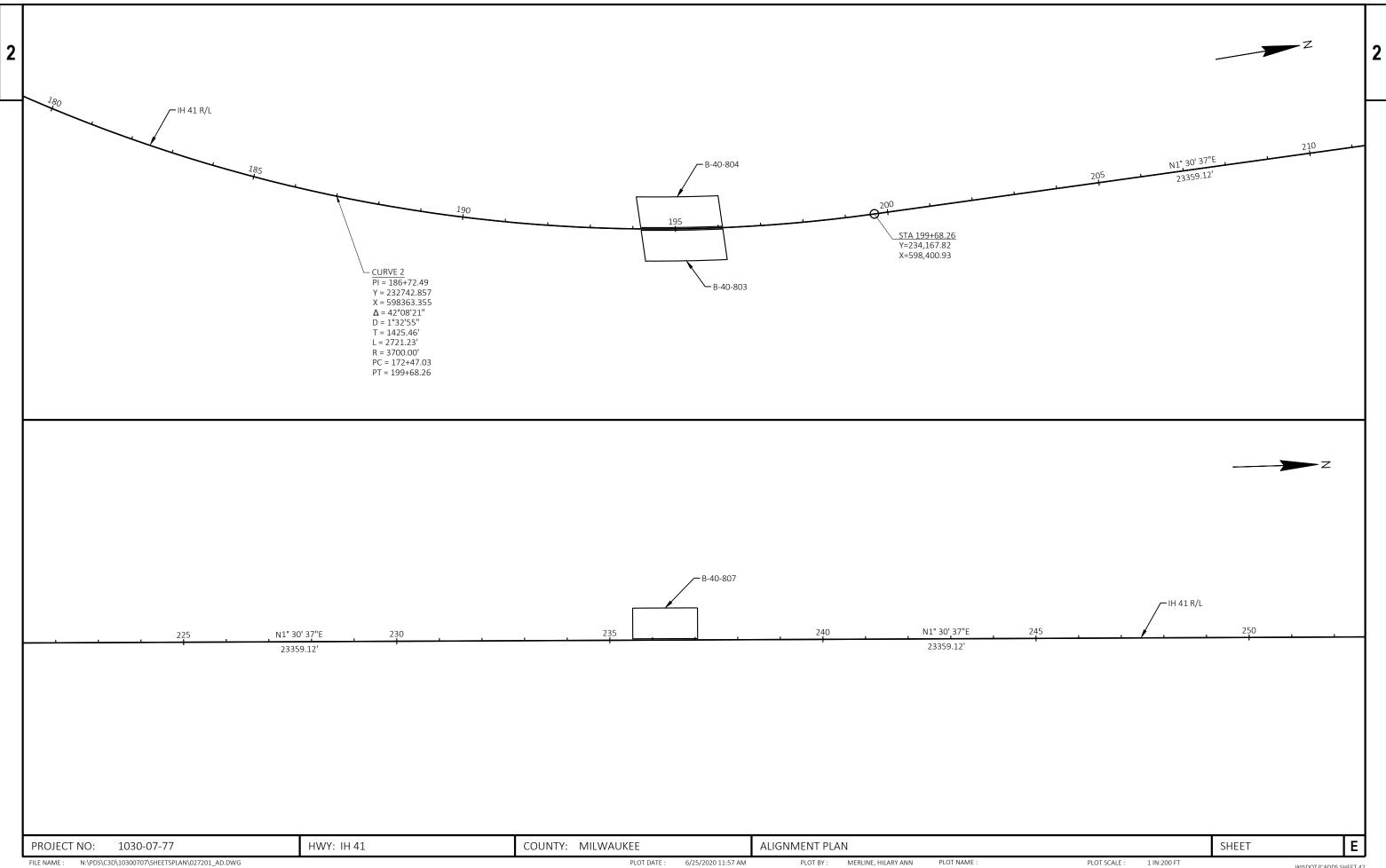
PROJECT NO: 1030-07-77 HWY: IH 41 COUNTY: MILWAUKEE TRAFFIC CONTROL - STAGE 2 OVERVIEW SHEET **E** 

PLOT NAME

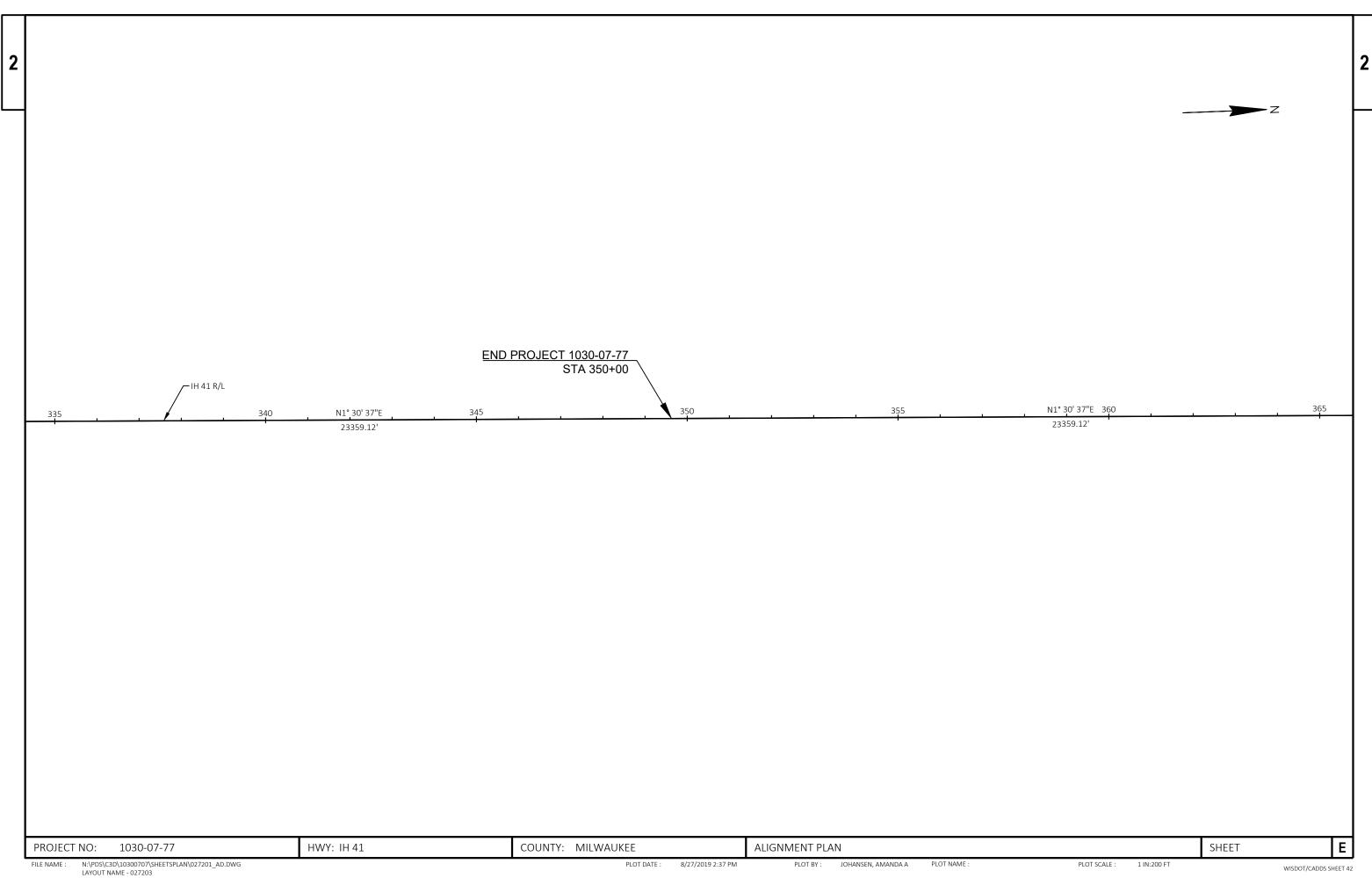


LAYOUT NAME - Stage 3 Overview





N:\PDS\C3D\10300707\SHEETSPLAN\027201\_AD.DWG LAYOUT NAME - 027202 WISDOT/CADDS SHEET 42



1030-07-77

					1030-07-77
Line	Item	Item Description	Unit	Total	Qty
0002	204.0170	Removing Fence	LF	20.000	20.000
0004	213.0100	Finishing Roadway (project) 0001. 1030-07-77	EACH	1.000	1.000
0014	509.5100.S	Polymer Overlay	SY	8,914.000	8,914.000
0016	616.0206	Fence Chain Link 6-FT	LF	20.000	20.000
0018	619.1000	Mobilization	EACH	0.700	0.700
0020	628.1550	Silt Screen	LF	45.000	45.000
0022	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0024	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0026	628.7020	Inlet Protection Type D	EACH	33.000	33.000
0028	642.5401	Field Office Type D	EACH	0.700	0.700
0030	643.0300	Traffic Control Drums	DAY	7,104.000	7,104.000
0032	643.0420	Traffic Control Barricades Type III	DAY	603.000	603.000
0034	643.0705	Traffic Control Warning Lights Type A	DAY	1,205.000	1,205.000
0036	643.0715	Traffic Control Warning Lights Type C	DAY	1,335.000	1,335.000
0038	643.0800	Traffic Control Arrow Boards	DAY	101.000	101.000
0040	643.0900	Traffic Control Signs	DAY	1,315.000	1,315.000
0040	643.0920	Traffic Control Covering Signs Type II	EACH	18.000	18.000
0042	643.1050	Traffic Control Signs PCMS	DAY	30.000	30.000
		Traffic Control Interim Lane Closure	EACH	20.000	20.000
0046 0048	643.4100.5	Traffic Control  Traffic Control	EACH	0.700	0.700
0050	646.1020	Marking Line Epoxy 4-Inch	LF	4,031.000	4,031.000
0060	646.6120	Marking Stop Line Epoxy 18-Inch	LF	12.000	12.000
0062	646.7120	Marking Diagonal Epoxy 12-Inch	LF	1,067.000	1,067.000
0064	646.8120	Marking Curb Epoxy	LF	120.000	120.000
0066	646.8220	Marking Island Nose Epoxy	EACH	2.000	2.000
0068	646.9000	Marking Removal Line 4-Inch	LF	3,722.000	3,722.000
0070	646.9100	Marking Removal Line 8-Inch	LF	634.000	634.000
0072	646.9200	Marking Removal Line Wide	LF	262.000	262.000
0074	646.9300	Marking Removal Special Marking	EACH	2.000	2.000
0076	649.0155	Temporary Marking Line Removable Contrast Tape 4-Inch	LF	5,144.000	5,144.000
0078	649.0255	Temporary Marking Line Removable Contrast Tape 8-Inch	LF	262.000	262.000
0800	649.0550	Temporary Marking Arrow Removable Tape	EACH	5.000	5.000
0084	SPV.0060	Special 0001. Traffic Control Close-Open Freeway Entrance Ramp	EACH	9.000	9.000
0086	SPV.0060	Special 0002. Marking Contrast Epoxy Special Marking Word	EACH	2.000	2.000
8800	SPV.0060	Special 0003. Marking Contrast Epoxy Special Marking Arrow	EACH	5.000	5.000
0090	SPV.0060	Special 0004. Sand Bags	EACH	300.000	300.000
3000	0. 1.0000	Special over Carra Bage	_,	000.000	000.000

# **Estimate Of Quantities By Plan Sets**

Page 2

				•	1030-07-77
Line	Item	Item Description	Unit	Total	Qty
0092	SPV.0075	Special 0001. Pavement Cleanup Project 1030-07-77	HRS	20.000	20.000
0096	SPV.0090	Special 0001. Marking Line Contrast Epoxy 4-Inch	LF	850.000	850.000
0098	SPV.0090	Special 0002. Marking Line Contrast Epoxy 8-Inch	LF	262.000	262.000
0100	SPV.0105	Special 0001. Survey Project 1030-07-77	LS	1.000	1.000
0102	SPV.0165	Special 4000. Mortar Surface Repair	SF	30.000	30.000

628.7020 INLET

PROTECTION

				TYPE D
CATEGORY	LOCATION	STATION	LOCATION	EACH
1000	IH 41/94	132+00	4.8' LT	1
		132+30	4.8' LT	1
		132+43	74' RT	1
		132+63	74' RT	1
		136+50	4.8' RT	1
		136+50	4.8' LT	1
		136+49	74' RT	1
		28+88	4' LT	1
		28+89	11' RT	1
		29+74	46' RT	1
		30+57	46' LT	1
		33+36	45' RT	1
		33+35	4' RT	1
		33+75	14' LT	1
		33+75	4' RT	1
		33+74	47' LT	1
		193+03	75' LT	1
		193+00	4.8' RT	1
		193+00	4.8' LT	1
		197+00	4.5' LT	1
		197+00	3' RT	1
		197+00	74' RT	1
		197+00	74' LT	1
		234+50	4' LT	1
		235+50	4' LT	1
		238+30	4' LT	1
	UNDISTRIBUTED			7

# FENCING ITEMS

		204.0170  REMOVING FENCE	616.0206 FENCE CHAIN LINK 6-FT
CATEGORY	LOCATION	LF	LF
000	IH 41/94 SB ON RAMP FROM DREXEL AVENUE	20	20
_	TOTAL:	20	20

# **MOBILIZATION**

		619.1000 MOBILIZATION
CATEGORY	LOCATION	EACH
1000	PROJECT	0.7
	TOTAL:	0.7

# **EROSION CONTROL**

TOTAL:

		628.1550	628.1905	628.1910	SPV.0060.0004
				MOBILIZATIONS	
		SILT	MOBILIZATIONS	<b>EMERGENCY</b>	
		SCREEN	<b>EROSION CONTROL</b>	EROSION CONTROL	SAND BAGS
CATEGORY	LOCATION	LF	EACH	EACH	EACH
1000	C-30-004	45	2	2	300

HWY: IH 41

# TRAFFIC CONTROL

		643.1050	643.5000
		TRAFFIC	
		CONTROL	TRAFFIC
		SIGNS PCMS	CONTROL
CATEGORY	LOCATION	DAY	EACH
1000	PROJECT	30	0.7

PROJECT NO: 1030-07-77

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET:

Е

FILE NAME: N:\PDS\C3D\10300707\SheetsPlan\030201\_mq.pptx

PLOT NAME : \_\_\_\_\_

PLOT SCALE: 1:1

PLOT SCALE: 1:1

3

# TRAFFIC CONTROL

_				TRA CON	3.0300 AFFIC NTROL RUMS	TRA CON BARRI	3.0420 AFFIC NTROL RICADES PE III	TRA CON WARNING	AFFIC NTROL IG LIGHTS PE A	TRA CON' WARNING	.0715 AFFIC ITROL G LIGHTS PE C	TRAI CONT ARR		643.0 TRAF CONT SIG	FFIC ROL	TI COVE	43.0920 RAFFIC DNTROL RING SIGNS TYPE II	3	643.4100.S TRAFFIC CONTROL INTERIM LANE CLOSURE	649.0 TEMPORA REMOVEAE 4-INO YELLOW	ARY MARKII BLE CONTRA		TEMPORARY MARKING ARROW	SPV.0060.0001 TRAFFIC CONTROL CLOSE-OPEN FREEWAY ENTRANCE RAMP
CATEGORY	STAGI	E LOCATION	DAYS	*EACH	DAYS	*EACH	DAYS	*EACH	DAYS	*EACH	DAYS	*EACH	DAYS	*EACH	DAYS	CYCLES	SIGNS E	ACH	EACH	LF	LF	LF	_ EACH	EACH
1000	1	B-40-807 B-40-804	2 2	142 162	284 324	10 6	20 12	20 12	40 24	51 51	102 102	4 4	8	22 19	44 38	<u>-</u>	<u></u>		2 2	113 153	75 75	<u></u>	<u>-</u>	
	1	B-40-803	2	180	360	18	36	36	72	51	102	4	8	24	48				2	153	75			
	1	B-40-801	2	236	472	15	30	30	60	51	102	4	8	23	46				2	281	150			_
	1	B-40-800	2	286	572	19	38	38	76	51	102	4	8	28	56				2	281	150			
	•	2 .0 000	-	200	0.2		00	00	, ,	01	102		Ü		00				_	_0.	.00			
	SUBTO	TAL STAGE 1			2,012		136		272		510		40		232			0	10	981	525	0	0	0
	2	B-40-807	2	212	424	10	20	20	40	51	102	4	8	22	44				2		138	50		-
		Service Ramps	2	114	228	12	24	24	48	4	8		0	37	74	2	1	2		-				1
	2	B-40-804	2	148	296	6	12	12	24	51	102	4	8	19	38				2		228			-
		Service Ramps	2	137	274	13	26	26	52	4	8		0	38	76	2	1	2	-					1
	2	B-40-803	2	180	360	18	36	36	72	51	102	4	8	24	48			-	2		228			<b></b>
		Service Ramps	2	89	178	19	38	38	76	4	8	_	0	52	104	2	1	2						2
	2	B-40-801	2	217	434	15	30	30	60	51	102	4	8	23	46				2		431			-
		Service Ramps	2	179	358	22	44	44	88	8	16		0	61	122	2	1	2	<del>-</del>					2
	2	B-40-800	2	315	630	19	38	38	76	51	102	4	8	28	56			-	2	-	431			_
		Service Ramps	2	174	348	23	46	46	92	4	8		0	70	140	2	2	4	-	-	_			2
	SUBTO	TAL STAGE 2			3,530		314		628		558		40		748			12	10	0	1,456	50	0	8
	3	B-40-802	2			3	6	6	12					7	14					894	1288	212	5	
	3	Elm Road Ramps		63	126	13	26	26	52	_				25	50	2	1	2	0					1
		Lilli Noau Namps	2	03	120	13	20	20	32	<b></b>	<b></b>		-	25	30	2	'	2	U	-		<del></del>		ı
	SUBTO	TAL STAGE 3			126		32		64		0		0		64			2	0	894	1,288	212	5	1
	N/A	C-40-030	1	15	15							1	1	8	8				-	-				
	UNDIST	TRIBUTED			1421		121		241		267		20		263			4						
	TOTAL:				7104		603		1205		1335		101		1315			18	20	514	14	262	5	9

<sup>\*</sup> FOR INFORMATION ONLY

PROJECT NO: 1030-07-77 HWY: IH 41 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: **E** 

# PAVEMENT MARKINGS

		646.	1020	646.6120	646.	7120	646.8120	646.8220	646.9000	646.9100	646.9200	646.9300	SPV.0060.0002	SPV.0060.0003	SPV.0090.0001	SPV.0090.0002
		MARI	KING	MARKING	MARKIN	IG LINE	MARKING	MARKING					MARKING CONTRAST	MARKING CONTRAST	MARKING	
		LINE E	POXY	STOP LINE	DIAGO	DNAL	CURB	ISLAND	MARKING	MARKING	MARKING	MARKING	SPECIAL MARKING	SPECIAL MARKING	CONTRAST	MARKING
		4-IN	ICH	EPOXY	EPO	OXY	EPOXY	NOSE	REMOVAL	REMOVAL	REMOVAL	REMOVAL	WORD	ARROW TYPE 2	EPOXY 4-INCH	CONTRAST
				18-INCH	12-IN	NCH		EPOXY	LINE	LINE	LINE	SPECIAL	EPOXY	EPOXY	12.5 FT LINE 37.5 SKIP	<b>EPOXY 8-INCH</b>
		YELLOW	/ WHITE	WHITE	YELLOW	WHITE	YELLOW	YELLOW	4-INCH	8-INCH	WIDE	MARKING	WHITE	WHITE	DASHED WHITE	WHITE
CATEGOR	RY LOCATION	LF	LF	LF	LF	LF	LF	EACH	LF	LF	LF	EACH	EACH	EACH	LF	LF
1000	B-40-800	281	281		45	45			787	90					225	
	B-40-801	281	281		45	45			787	90					225	
	B-40-802	894	1225	12	295	528	120	2	1022	390	212	2	2	5	63	212
	B-40-803	153	153		16	16			419	32	-				113	
	B-40-804	153	153		16	16		-	419	32		_	_		113	
	B-40-807	113	63				-	-	289		50				113	50
	SUBTOTAL	1875	2156	12	417	650	120	2	3722	634	262	2	2	5	850	262
	TOTAL:	4,0	)31	12	1,0	067	120	2	3,722	634	262	2	2	5	850	262

PROJECT NO: 1030-07-77 HWY: IH 41 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: **E** 

FILE NAME: N:\PDS\C3D\10300707\SheetsPlan\030201\_mq.pptx PLOT NAME: \_\_\_\_\_ PLOT SCALE : 1:1

# Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E12-01	SILT SCREEN
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C07-15B	PAVEMENT MARKING WORDS
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-08B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-04	MEDIAN ISLAND MARKING
15C18-05B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
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

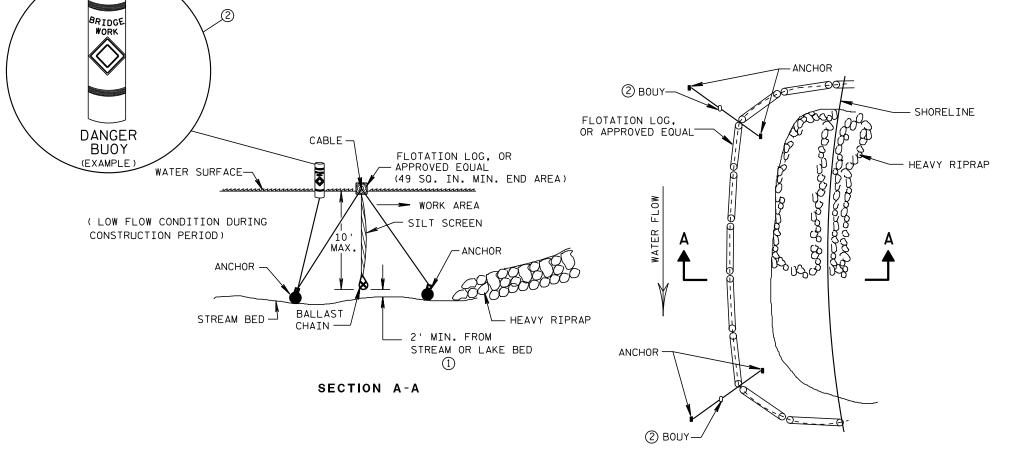
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DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- 1) 2' MINIMUM SHALL BE MAINTAINED DURING CONSTRUCTION PERIOD.
- ② USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW

SILT SCREEN PLACEMENT DETAIL

SILT SCREEN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

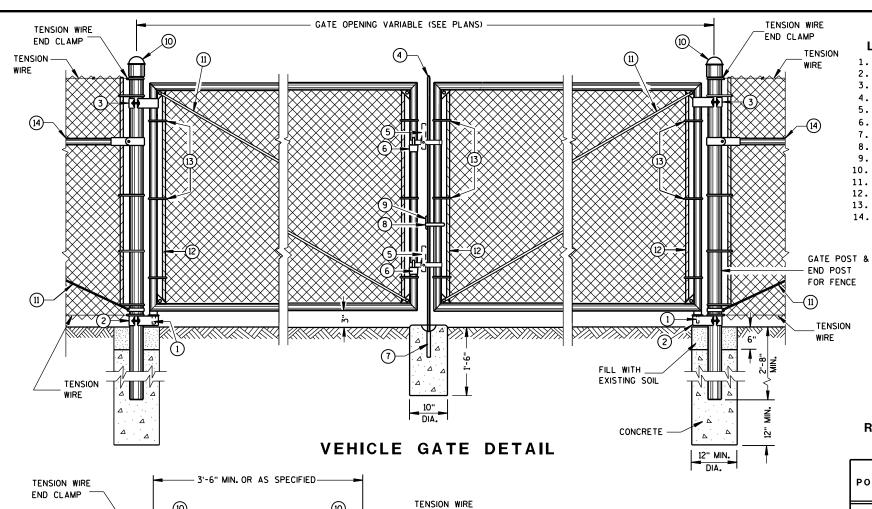
APPROVED

DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

D.D. 8 E 12-1

6

S.D.D. 8 E 12-



END CLAMP

EXISTING SOIL

PEDESTRIAN GATE DETAIL

CONCRETE

12" MIN.

CONCRETE

12" MIN.

**TENSION** 

GATE POST &

END POST

FOR FENCE

TENSION -

GATE POST &

TENSION

END POST

FOR FENCE

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D

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 $\Box$ 

## REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

#### **BRACE RAIL TYPES**

USE	TYPE
BRACE RAIL	SP1 OR FS1

\*\* INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

- LEGEND 1. STRAIGHT PLUG
- 2. BOTTOM HINGE
- TOP HINGE
- 4. PLUNGER ROD
- 5. FULCRUM LATCH
- 6. FORK CATCH \*
- 7. PLUNGER ROD CATCH 8. LOCK KEEPER GUIDE
- 9. LOCK KEEPER
- 10. DOME TOPS
- 11. TRUSS RODS
- 12. TENSION BAR
- 13. TENSION BANDS 14. BRACE RAIL

\*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

#### **GENERAL NOTES**

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

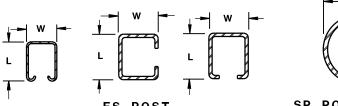
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

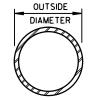
FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.





SP POST & RAIL

# CROSS SECTIONS OF POSTS AND RAILS

# **ROLLED-FORMED STEEL FENCE POST** (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W)	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

# **ROUND STEEL FENCE POST** (1.8 OZ./SQ. FT. COATING)

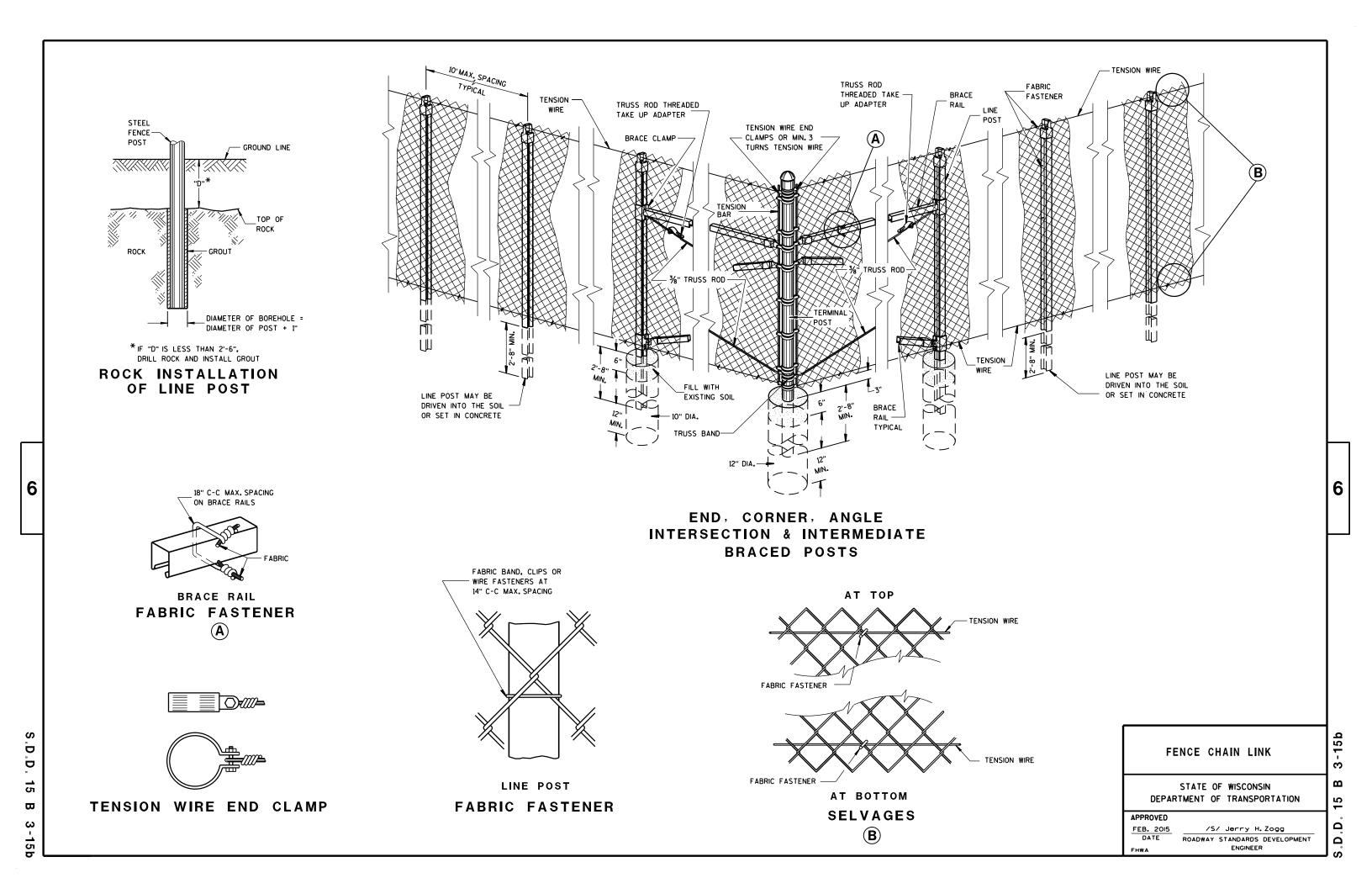
POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	SP1 1.660		2.270
SP2 1.900		0.145	2.720
SP3 2.375		0.154	3.650
SP4	2.875	0.203	5.800
SP5 4.000		0.226	9.120
SP6 6.625		0.280	18.990
SP7 8.625		0.322	28.580

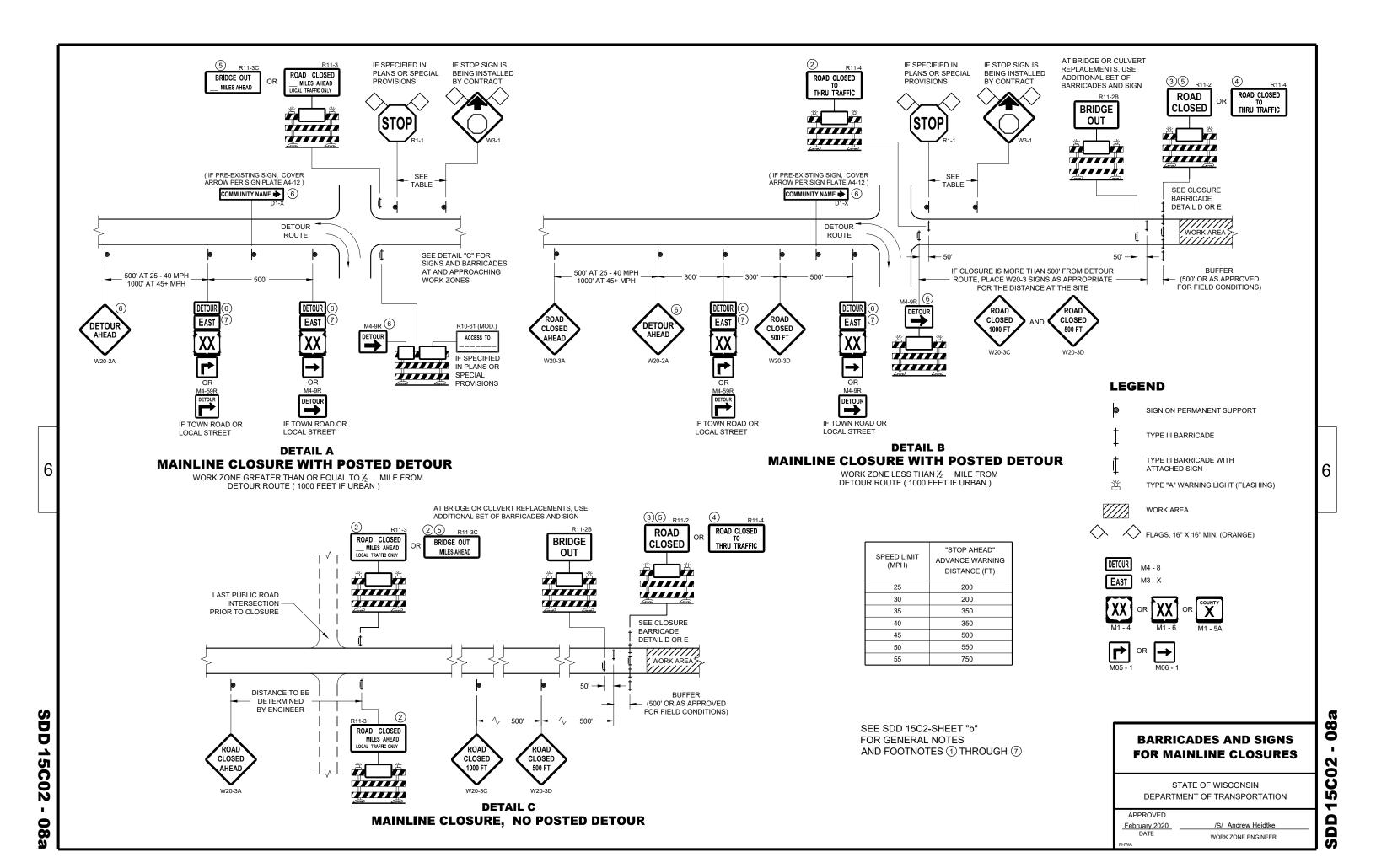
#### REQUIRED POST SIZE FOR GATES

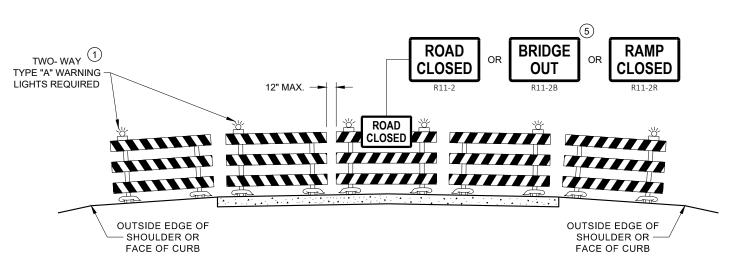
USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

FENCE CHAIN LINK

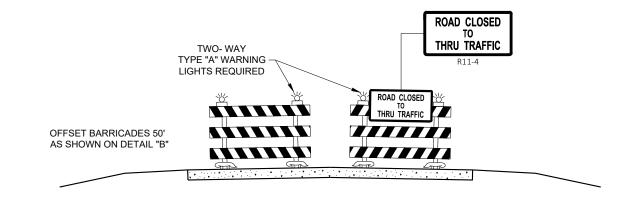
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION က







# **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

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"

- 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
- "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

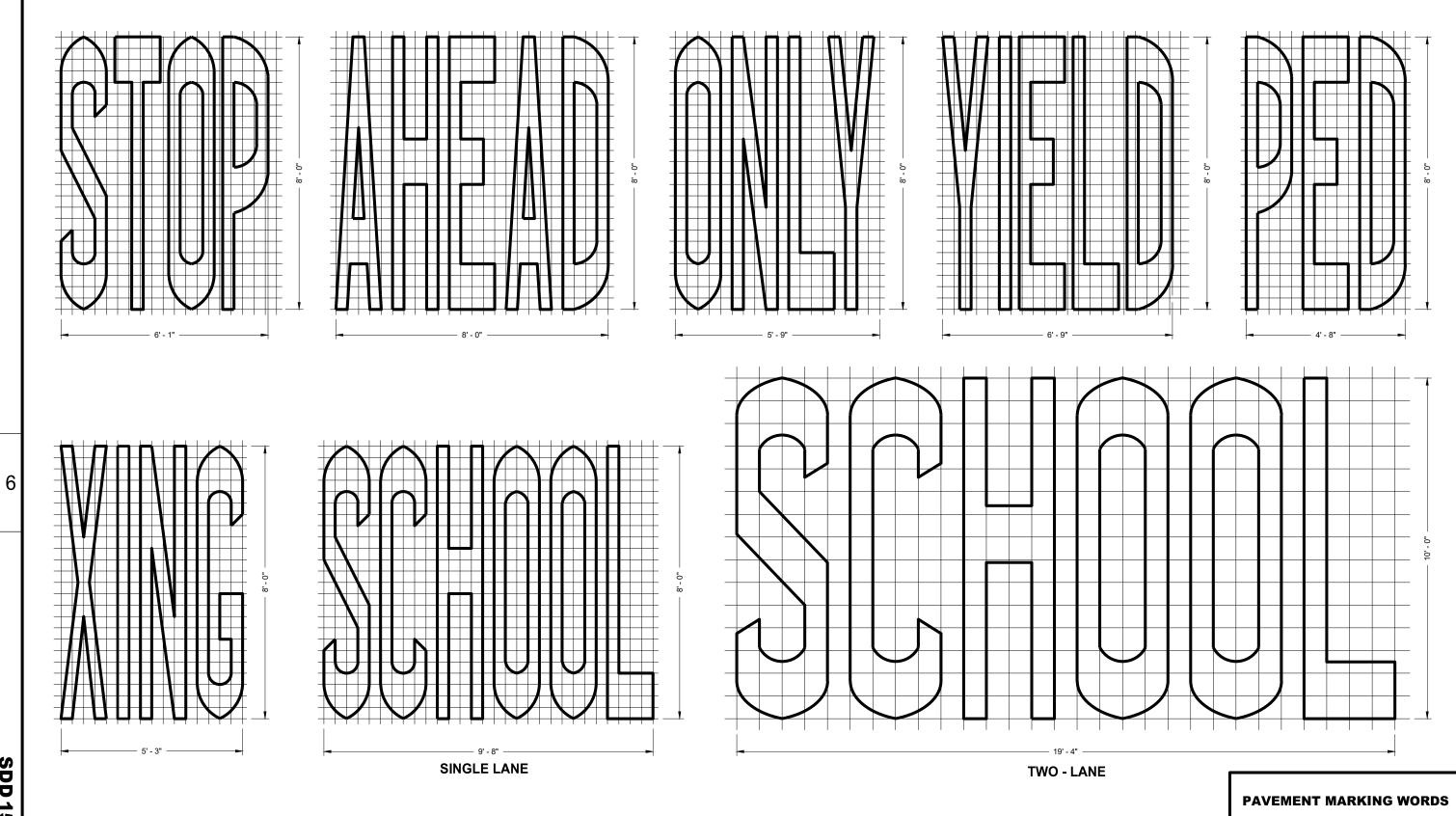
APPROVED

February 2020 DATE

WORK ZONE ENGINEER

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**SDD 15C07** 15b

# **GENERAL NOTES**

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.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

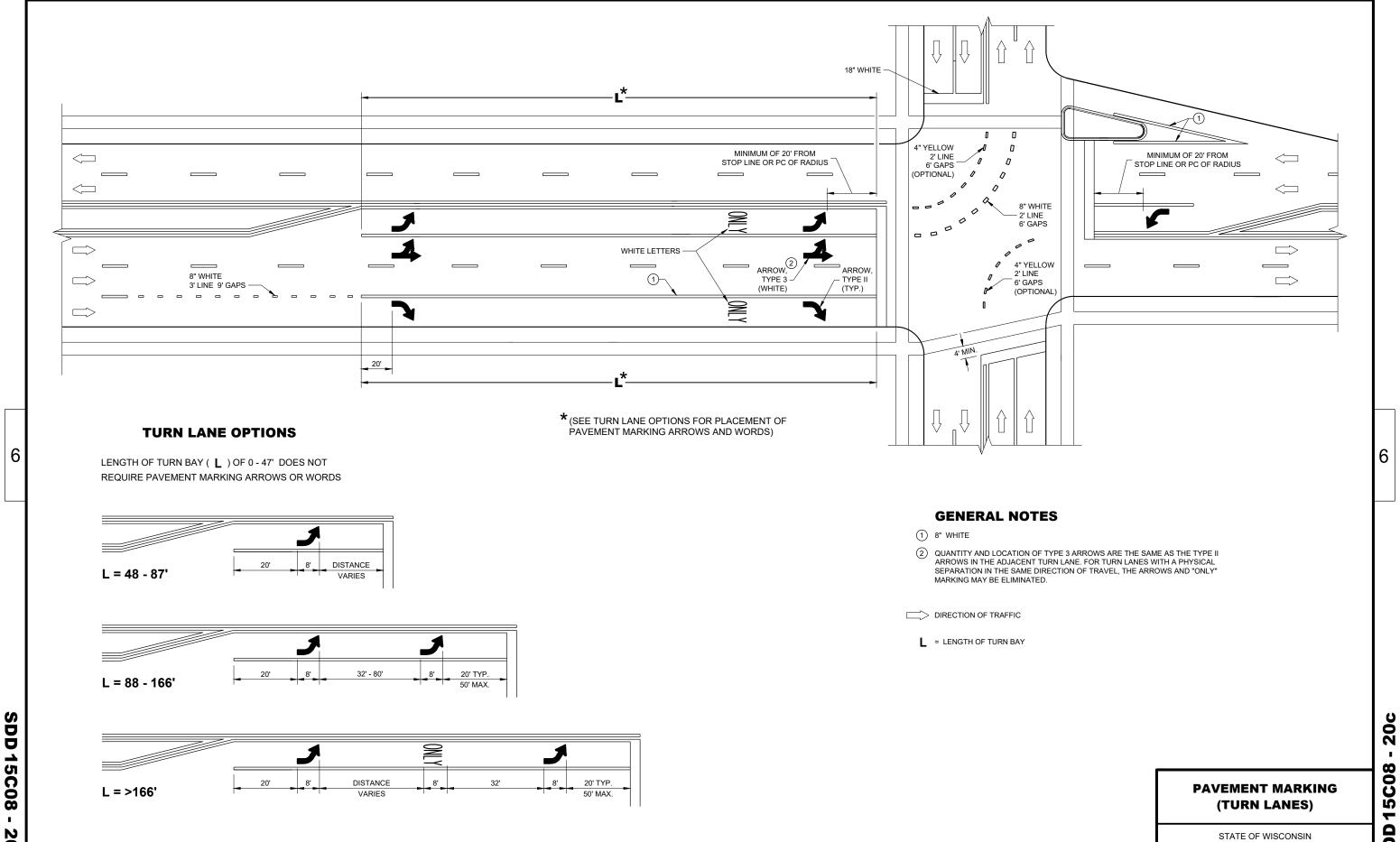
November 2019 \_\_\_\_

/S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

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**SDD15C07** 

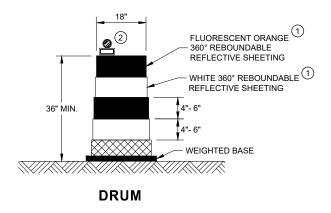


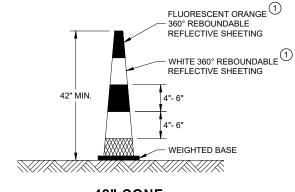
**SDD 15C08** 

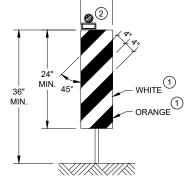
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES** 

- (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.



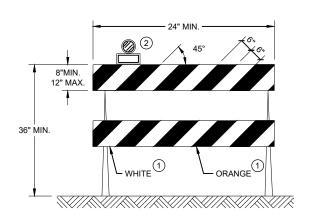




#### **42" CONE** DO NOT USE IN TAPERS ½ SPACING OF DRUMS

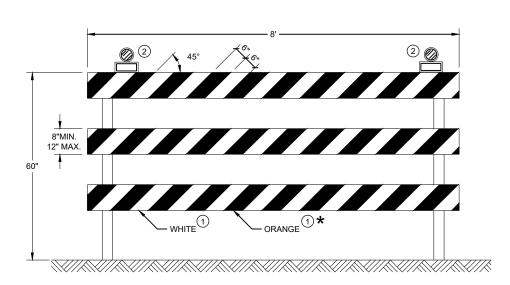
# **VERTICAL PANEL**

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.

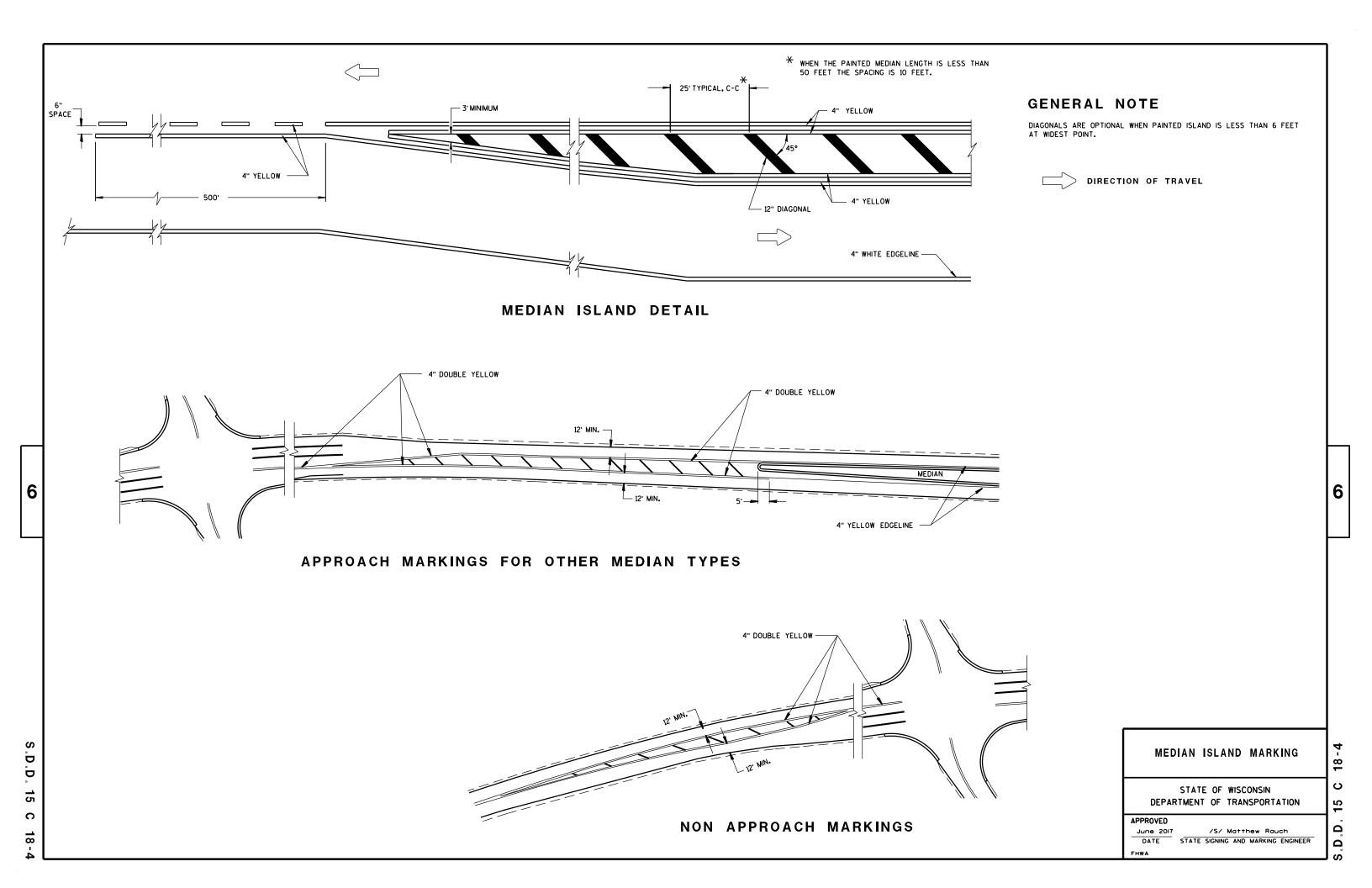
# **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS**

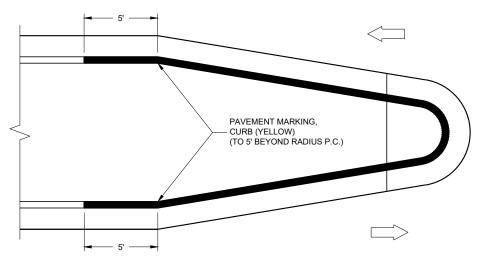
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**SDD 15C** 

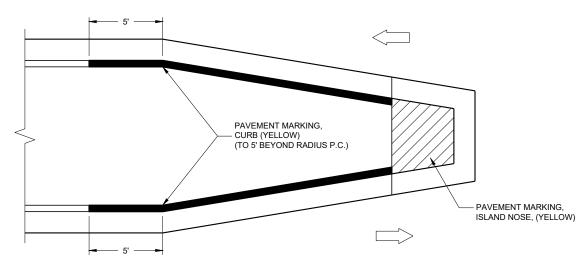
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
November 2020	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER





#### MEDIAN ISLAND WITH ROUND BLUNT NOSE

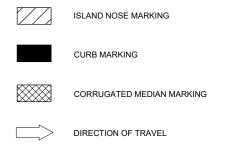


**MEDIAN ISLAND WITH SLOPED NOSE** 

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

### **GENERAL NOTES**

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



# PAVEMENT MARKINGS, MEDIAN ISLAND NOSE

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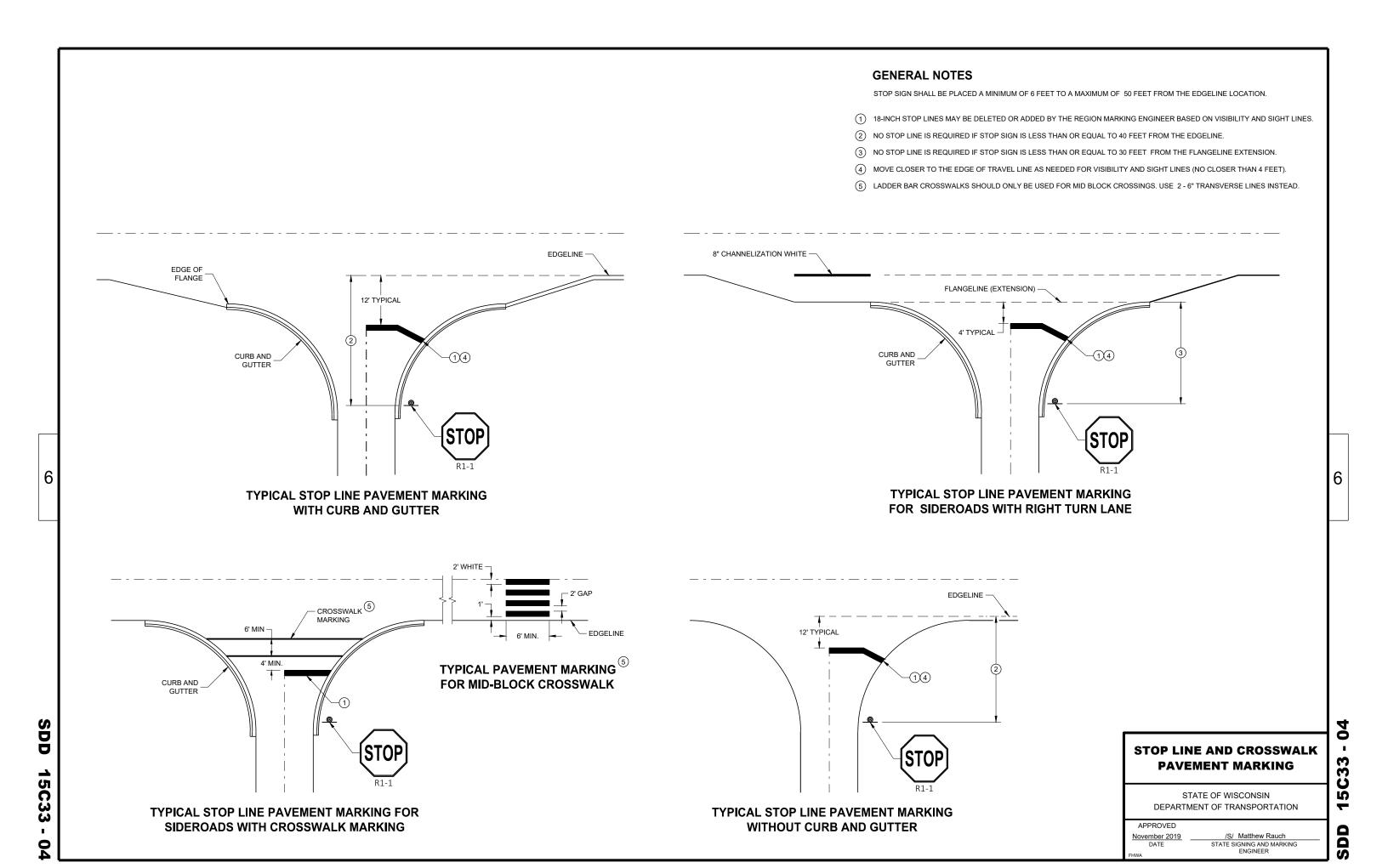
SDD

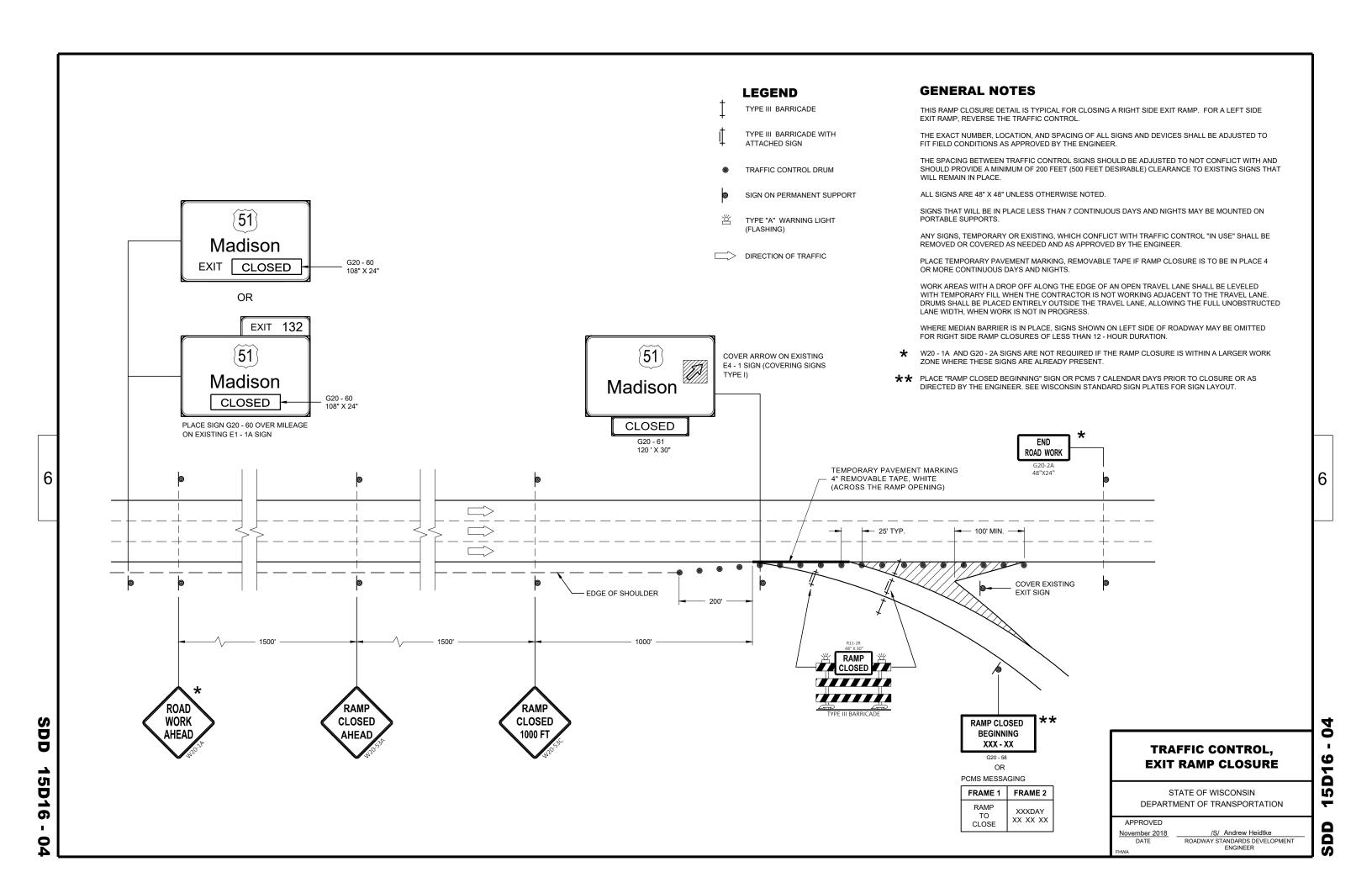
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

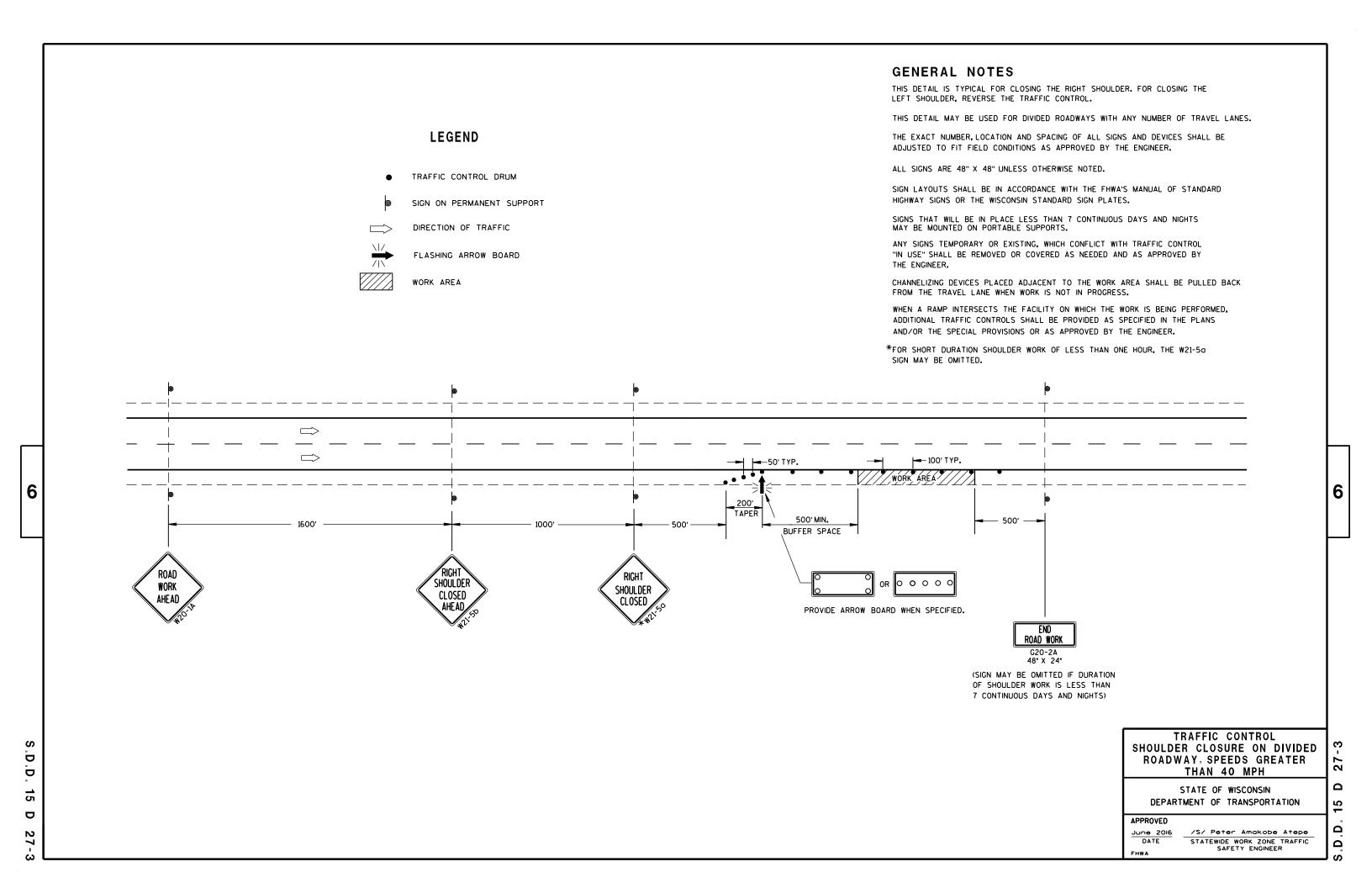
APPROVED

February 2021 /S/ Matthew R. Rauch

DATE STATE SIGNING AND MARKING
ENGINEER









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 REQUIREM	MENTS	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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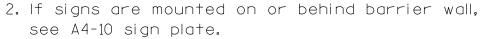
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017
DATE



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" ( $\pm$ ). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" ( $\pm$ ).

- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is  $5'-3''(\frac{+}{2})$ .
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directd by the Engineer.

2' Min - 4' Max (See Note 6)

\*\* Curb Flowline

D
White Edgeline Location

\*

6'-3"(±)

D |

Outside Edge

of Gravel

White Edgeline
Location

Outside Edge
of Gravel

d.

POST EMBEDMENT DEPTH

Area of Sign
Installation
( Sq.Ft.)
( Min )
20 or Less
4'
Greater than 20
5'

The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

\* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

Matther & Rawk For State Traffic Engineer

DATE 5/13/2020 PLATE NO. \_A4-3.22

SHEET NO:

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FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A43.dgn

PROJECT NO:

PLOT DATE: 13-MAY 2020 1:04

COUNTY:

PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

APPROVED



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



## **ELEVATION VIEW**

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

## GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4''-3'' (±).
- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- \*\* See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

# POST EMBEDMENT DEPTH

D
(Min)
4'
5'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRE)		
	L	E	
***	Greater than 48" Less than 60"	12"	
	60" to 108"	L/5	

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

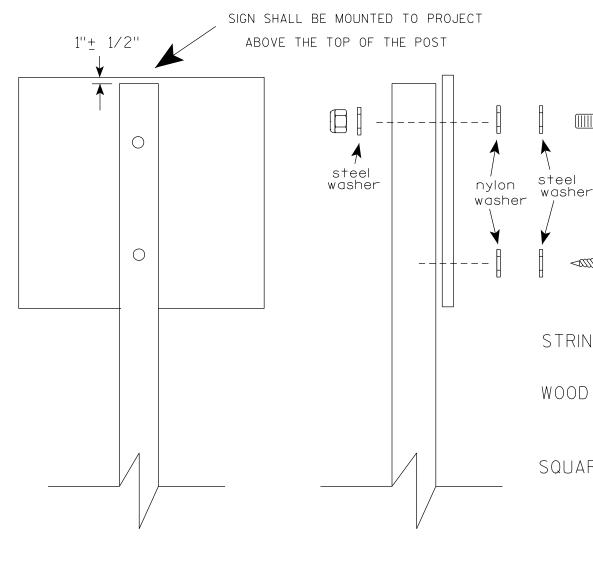
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



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.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS -  $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS  $(4" \times 6")$ 

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS -  $\frac{1}{32}$  " (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  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ " STEEL 1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X .080 NYLON

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, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

For State Traffic Engineer

SHEET NO:

DATE <u>4/1/202</u>0

PLATE NO. <u>44-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A48.DGN



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

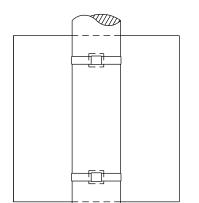
DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

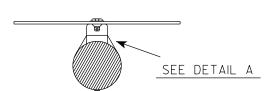
For State Traffic Engineer

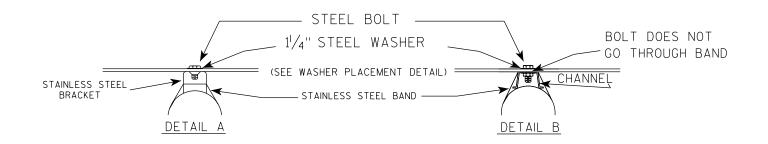


# BANDING

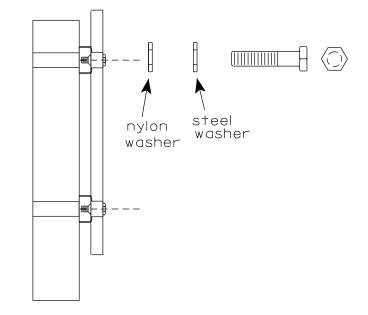


SINGLE SIGN





## WASHER PLACEMENT



HWY:

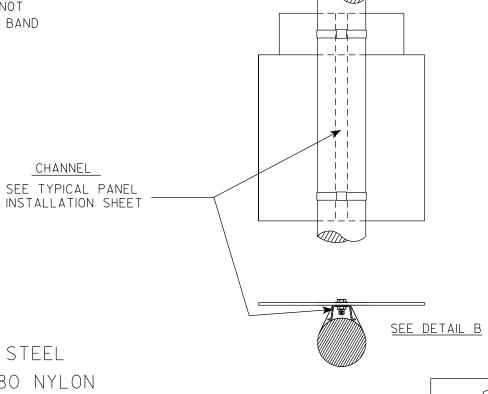
WASHERS (ALL POSTS) -

1-1/4" O.D. X<sup>3</sup>/<sub>8</sub>" I.D. X<sup>1</sup>/<sub>16</sub>" STEEL 1-1/4" O.D.  $\times \frac{3}{8}$ " I.D.  $\times$  .080 NYLON FOR ALL TYPE H SIGNS

## GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be  $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

## "J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

State Traffic Engineer

Ε

APPROVED

DATE 6/10/19 PLATE NO. A5-9.4

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

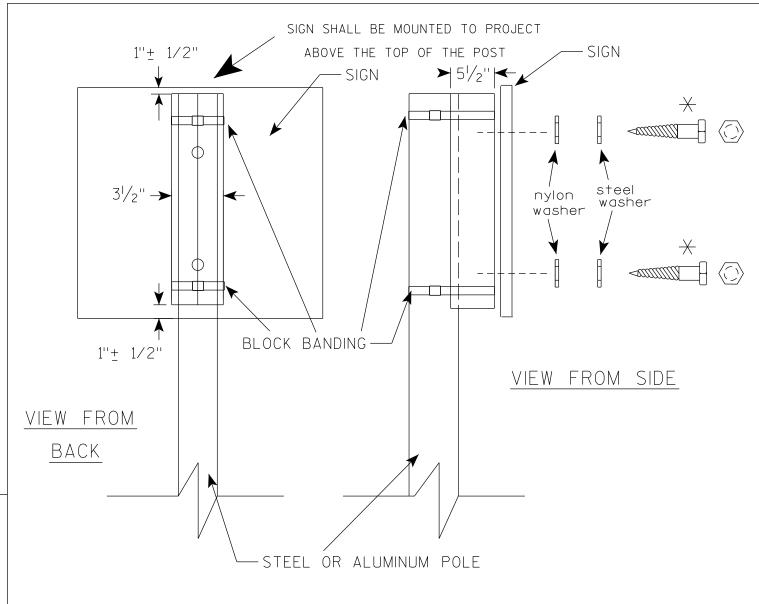
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

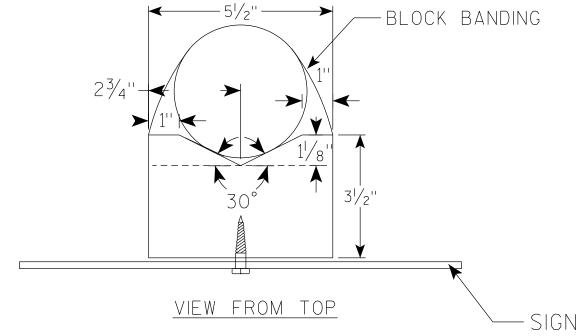
FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A59.dgn

PROJECT NO:

PLOT BY: mscj9h

CHANNEL





## GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL,  $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

  SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE  $1\frac{1}{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 $\rightarrow$  LAG BOLTS SHALL BE  $\frac{3}{8}$ " X  $2\frac{1}{2}$ "

BLOCK BANDING DETAIL ( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

| APPROVED

For State Traffic Engineer

SHEET NO:

Matthew R

DATE 6/10/19

PLATE NO. \_A5-10.2

PROJECT NO:
FILE NAME: C:\CAEfiles\Projects\tr\_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42

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

2. Color:

Background - Orange Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Metric equivalent for this sign is:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED 400 110 00 00 110

for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\G202A.DGN

HWY:

PROJECT NO:

PLOT DATE: 30-SEP-2009 09:31

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

5.561773:1.000000 WISDOT/CADDS SHEET 42







MP3-1









HWY:



## NOTES

- 1. All Signs Type II Type H
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

5. M3-1 thru M3-4 Background - White Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 **SERIES** 

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15 PLATE NO. M3-1.14

Ε

SHEET NO:

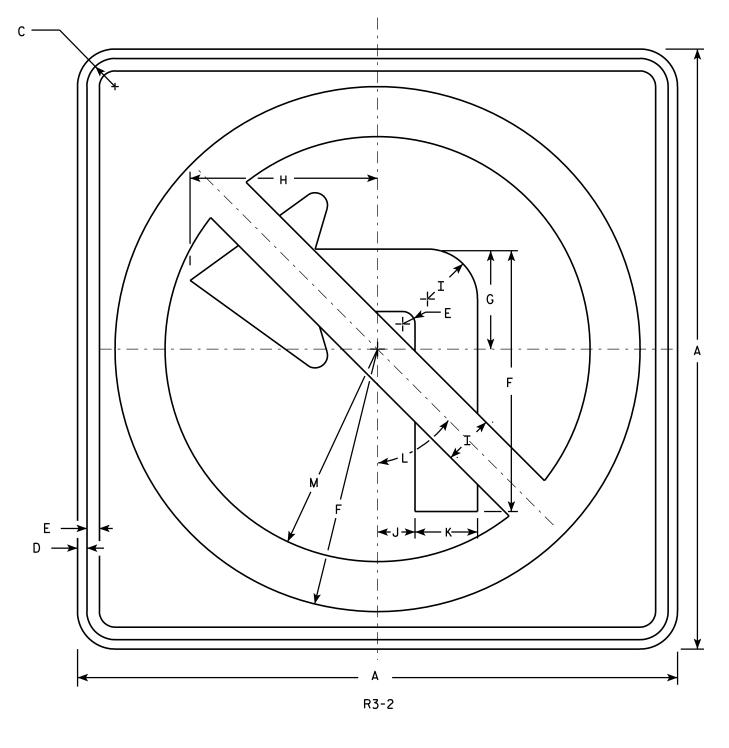
FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

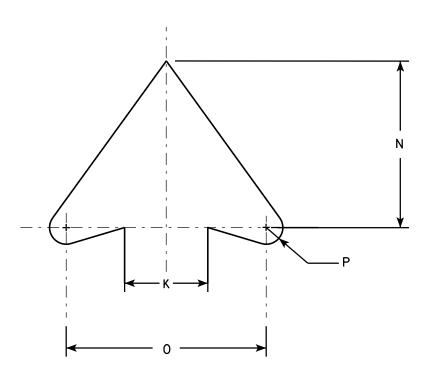
PLOT SCALE . 11 675051.1 000000



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

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	₩	X	Y	Z	Area sq. ft.
1	24		1 1/8	3⁄8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
25	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	9	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 %	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

COUNTY:

STANDARD SIGN R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{\it or}$  State Traffic Engineer

DATE 12/08/10

PLATE NO. R3-2.10

SHEET NO:

HWY:

PROJECT NO:

PLOT NAME :



## <u>NOTES</u>

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

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Modify the message as required.





R	1	1	-	2	L

PLOT NAME :

SIZ	Έ	A	В	С	D	Ε	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																												
2	S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
21	<b>I</b>	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 ½	19	14	15	13													10.0
3		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 ½	19	14	15	13													10.0

COUNTY:

STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

HWY:

PROJECT NO:

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

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

C —		<b>\</b>
D A E A		$ \begin{array}{c c} G & \hline  & F & \hline  & B & \hline  & G & G & G & \hline  & G & G & G & G & \hline  & G & G & G & G & \hline  & G & G & G & G & G & G \\  & G & G & G & G & G & G $
	R11-2B	

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	M	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Areg sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
2M	48	30	1 %	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
4	48	30	1 %	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 %																10.0

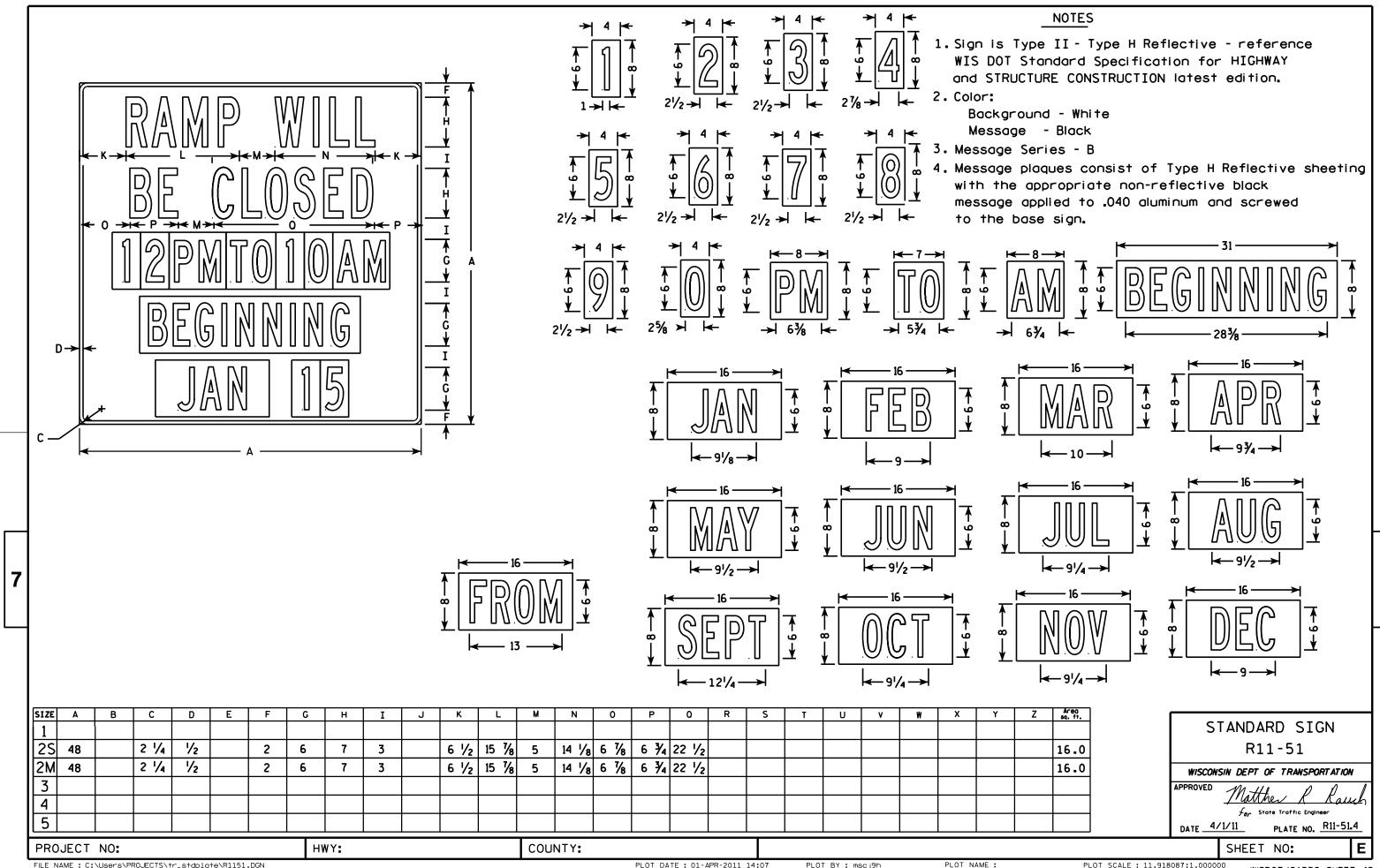
STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2B.2

SHEET NO:

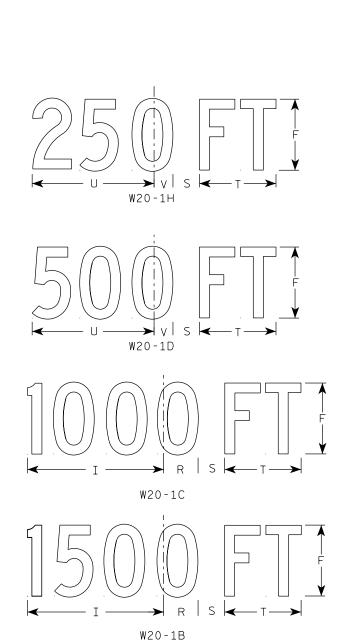
PROJECT NO:

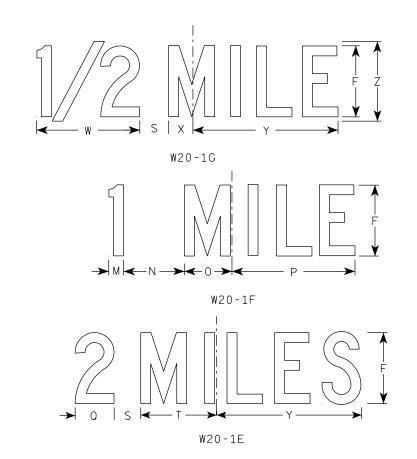


- 1. Sign is Type II Type F Reflective
- 2. Color:

Background – Orange Message – Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.





SIZE	А	В	С	D	E	F	G	H I	J	K	_ M	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4 10 1/8	7	7 % 8	7/8 1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 %	9	1 3/8	8	1 3/4	10 3/4	6	9.0
25	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rauch

 $f_{or}$  State Traffic Engineer
DATE 3/25/2020 PLATE NO. W20-1.11

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W201.DGN

PROJECT NO:

W20-1A

PLOT DATE: 25-MARCH-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series See Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. " \_\_\_\_\_ LANE" is Series B. All other copy is Series C.

W20-5D

W20-5B

W20-5G

PLOT BY: mscj9h

->IOI← R-		
	W20-5F	

								W20-	5 A																	11 2	20-56
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	v	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	<b>7/8</b>	2 1/2	13 1/8	10 ¾	9 1/2	14 1/4	13 %	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 %	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 1/8	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 5/8	7 1/2	13 1/2	3 %	2 3/8	10 %	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 %	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 5/8	12	2 %	7 1/2	13 1/2	3 ¾	2 3/8	10 %	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 <del>%</del>	2 3/8	10 %	16.0

COUNTY:

STANDARD SIGN W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Kauch Fer State Traffic Engineer DATE 3/18/11 PLATE NO. W20-5.11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W205.DGN

PROJECT NO:

HWY:

W20-56A

W20-55A

PLOT DATE: 18-MAR-2011 12:15

PLOT NAME :

PLOT SCALE: 11.918087:1.000000

WISDOT/CADDS SHEET 42

W20-53F

PLOT BY: mscj9h

## NOTES

- Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Areo sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 ½	1 1/8	4	9 1/4	9 1/4	12 1/2	11	9	6	10 1/8	2 1/2	1 1/8	5 %	8	1 3/8	4 1/2	3 ½	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3 3/8	2 %	7 1/2	10 %	1 1/8	6	4 5%	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3 3/8	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3 3/8	2 %	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0

COUNTY:

W20-53A

HWY:

STANDARD SIGN W20-53A,B,C,D,F,G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

DATE 5/27/15 PLATE NO. W20-53.1

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W2053.DGN

PROJECT NO:

PLOT DATE: 27-MAY-2015 19:40

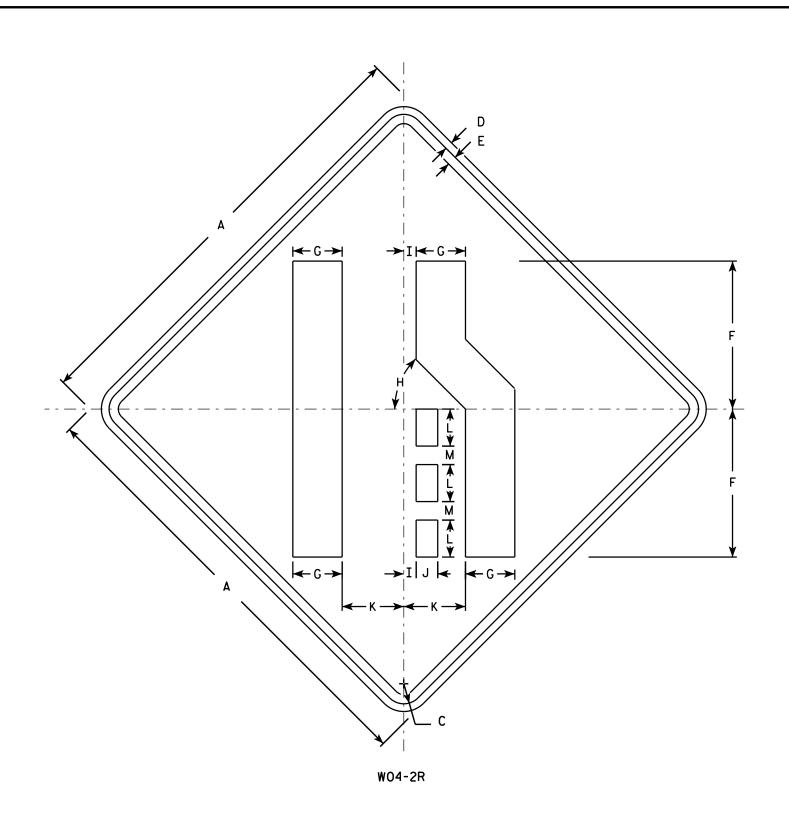
PLOT NAME :

PLOT SCALE : 9.729210:1.000000

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W04-2L is the same as W04-2R except the symbolis reversed along the vertical centerline.



SIZE 1 % 5/8 3/4 12 45° 1 3/4 5 1 1/2 4 36 3 9.0 2S 2 1/4 5 3/8 45° 1 ¼ 2 ¾ 6 ¾ 3/4 48 16.0 45° 1 ¼ 2 ¾ 6 ¾ 3/4 5 3/8 48 2 1/4 2 16.0 2 1/4 3 48 3/4 5 % 45° | 1 1/4 | 2 3/8 | 6 3/4 2 16.0 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 16.0 5 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 16.0

STANDARD SIGN W04 - 2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

ForState Traffic Engineer

DATE 11/20/13 PLATE NO. <u>WO4-2.1</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W042.DGN

PROJECT NO:

PLOT DATE: 20-NOV-2013 11:43

WISDOT/CADDS SHEET 42

1030-07-77

## DESIGN DATA

LIVE LOAD:

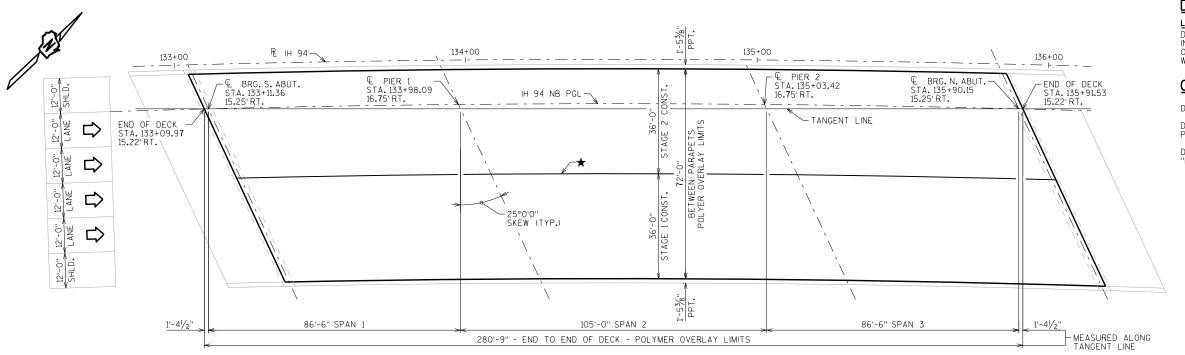
DESIGN LOADING: HL-93 INVENTORY RATING FACTOR: RF = 1.43 OPERATING FACTOR: RF = 1.85 WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250(KIPS)

## GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

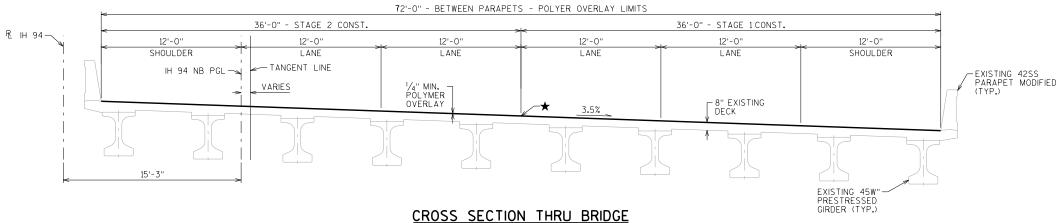
DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".



## PLAN

3 SPAN 45W" PRESTRESSED GIRDERS

★ CONSTRUCTION JOINT LOCATION. SEE ROADWAY PLANS FOR STAGING DETAILS



(LOOKING NORTH)

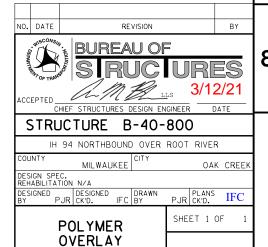
## TRAFFIC VOLUME

IH 41/49 (NB)

ADT = 119,500 (2038) R.D.S. = 70 M.P.H.

#### STRUCTURE DESIGN CONTACTS:

(608) 261-6123 PETER ROMENS (608) 267-9592 LAURA SHADEWALD



## TOTAL ESTIMATED QUANTITIES

8

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509 <b>.</b> 5100 <b>.</b> S	POLYMER OVERLAY	SY	2,249

LIST OF DRAWINGS 1. POLYMER OVERLAY

1030-07-77

## DESIGN DATA

#### LIVE LOAD:

DESIGN LOADING: HL-93 INVENTORY RATING FACTOR: RF = 1.43 OPERATING RATING FACTOR: RF = 1.86 WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250(KIPS)

## GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

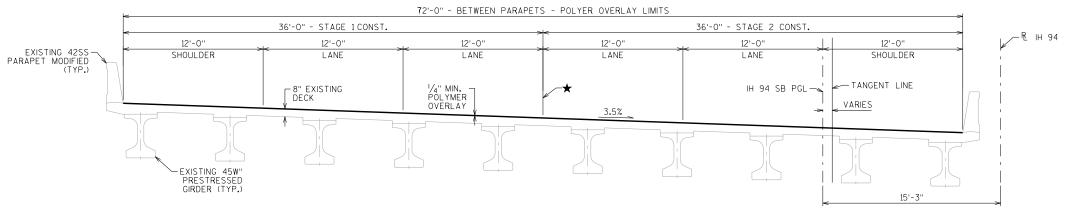
DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

#### 280'-5" - END TO END OF DECK - POLYMER OVERLAY LIMITS MEASURED ALONG 1'-41/2" TANGENT LINE 86'-4¾" SPAN 1 86'-4<sup>3</sup>/<sub>4</sub>" SPAN 3 1'-41/2" 104'-10<sup>1</sup>/<sub>2</sub>" SPAN 2 36'-0" STAGE 1 CONST $\Diamond$ -O" PARAPETS RLAY LIMIT 24°51'11'' -SKEW (TYP.) 72'-BETWEEN POLYER OVE END OF DECK -STA. 132+96.73 15.28'LT. -END OF DECK STA. 135+76.41 15.28'LT. IH 94 SB PGL-© PIER 2 -STA. 134+88.88 13.76'LT. © PIER 1 -STA. 133+84.26 13.76' LT. - £ BRG. S. ABUT. STA. 132+98.10 15.25' LT. € BRG. N. ABUT. STA. 135+75.04 15.25' LT. TANGENT LINE 133+00 136+00 R IH 94 1'-5¾" PPT.

## <u>PLAN</u>

3 SPAN 45W" PRESTRESSED GIRDERS

★ CONSTRUCTION JOINT LOCATION. SEE ROADWAY PLANS FOR STAGING DETAILS



## CROSS SECTION THRU BRIDGE

(LOOKING NORTH)

## TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509 <b>.</b> 5100 <b>.</b> S	POLYMER OVERLAY	SY	2,242

8

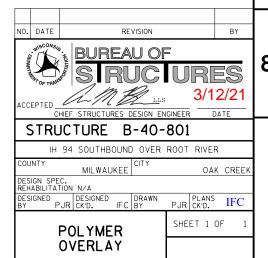
## TRAFFIC VOLUME

#### IH 41/49 (SB)

ADT = 119,500 (2038) R.D.S. = 70 M.P.H.

#### STRUCTURE DESIGN CONTACTS:

PETER ROMENS (608) 261-6123 LAURA SHADEWALD (608) 267-9592



STATE PROJECT NUMBER 1030-07-77 DESIGN DATA LIVE LOAD: DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.23
OPERATING RATING FACTOR: RF = 1.59
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250(KIPS)  $239'-4\frac{3}{4}"$  - END TO END OF DECK - POLYMER OVERLAY LIMITS 1'-83/8'' 118'-0" - SPAN 1 118'-0" - SPAN 2 1'-83/8'' **GENERAL NOTES** DRAWINGS SHALL NOT BE SCALED. DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE  $\Diamond$ DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY". € BRG.E.ABUT. STA.32E+91.33 END OF DECK -STA. 30E+53.63 -R ELM ROAD 30E+00 -⊊ BRG.W.ABUT. STA.30E+55.33 -END OF DECK 32E+93.03 - © PIER STA. 31E+**7**3.33 D  $\Box$  $\Box$ PLAN 2 SPAN 54W" PRESTRESSED GIRDERS ★ CONSTRUCTION JOINT LOCATION. SEE ROADWAY PLANS FOR STAGING DETAILS TRAFFIC VOLUME ELM ROAD —R ELM ROAD 55'-0" ADT = 15,570 (2035) R.D.S. = 40 M.P.H. VARIES 42'-334" TO 44'-0" - POLYMER OVERLAY LIMITS 44'-0" - POLYMER OVERLAY LIMITS 30'-0" 17'-0" 17'-0" STRUCTURE DESIGN CONTACTS: STAGE 1 CONSTRUCTION STAGE 2 CONSTRUCTION STAGE 2 CONSTRUCTION STAGE 1 CONSTRUCTION PETER ROMENS (608) 261-6123 <u>\_\_2'-0''</u> 6'-0" 12'-0" 12'-0" MEDIAN VAR. 12'-0" 12'-0" 6'-0" LAURA SHADEWALD (608) 26**7**-9592 SIDEWALK BIKE LANE LANE TURN LANE 6'-0" MIN. T TURN LANE LANE LANE BIKE LANE SIDEWALK LANE 7'-81/4" MAX. VARIES 0'-3¾" MIN. TO 2'-0" MAX. # l∕₄" MIN. POYMER OVERLAY - 8½"EXISTING DECK NO. DATE BY VERTICAL FACE PPT. MODIFEID (TYP.) 2.0% 2.0% **BUREAU** OF 8 - CROWN POINT CHIEF STRUCTURES DESIGN ENGINEER -EXISTING 54W"
PRESTRESSED GIRDER
(TYP.) CROSS SECTION THRU BRIDGE STRUCTURE B-40-802 (LOOKING EAST) ELM ROAD OVER IH 41/94 **★** 0'-3¾" AT STA. 32E+97.33, 4.69'LT. MILWAUKEE OAK CREEK DESIGN SPEC. REHABILITATION N/A TOTAL ESTIMATED QUANTITIES DESIGNED DESIGNED DRAWN
BY PJR CK'D. IFC BY PJR CK'D. IFC BID ITEMS UNIT TOTALS SHEET 1 OF POLYMER OVERLAY 509.5100.S POLYMER OVERLAY SY 2,339

1030-07-77

## **DESIGN DATA** 78'-61/4" - POLYMER OVERLAY LIMITS \*

1'-3<sup>1</sup>/8''

TANGENT LINE- TANGENT TO R IH 94 @ STA.195+14.94

-END OF DECK STA. 195+55.96 15.25'RT

\* MEASURED ALONG TANGENT LINE

- & BRG. N. ABUT. STA. 195+54.71 15.25'RT

-PGL IH 94 NB

—TANGENT LINE- TANGENT TO PGL HH 94 NB @ STA.195+14.94 15.25'RT

76'-0" - SPAN \*

195+00

1'-31/8''

Sten

€ BRG. S. ABUT.— STA. 194+79.03 15'.25'RT.

END OF DECK -STA. 194+77.77 15'.25'RT.

8

LIVE LOAD:

DESIGN RATING: HL-93 INVENTORY RATING: RF = 1.19 OPERATIONAL RATING: RF = 1.54

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS.

## **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS. DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER

## TRAFFIC VOLUME

OAKWOOD RD.

A.D.T. = 3,900 (2035) A.D.T. = 115,000 (2035) R.D.S. = 40 M.P.H. R.D.S. = 70 M.P.H.

#### CURVE DATA

P.I. STA. 186+**7**2.49  $\triangle$  = 42°08'21"LT

D = 1°32'55"

R = 3,700.00

T = 1,425.46'

L = 2,721.23'

E = 265.09'

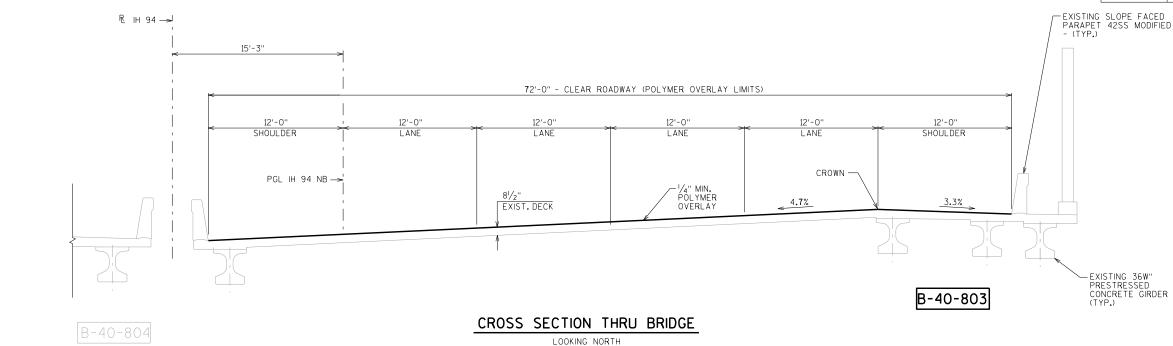
S.E. = 4.7%

P.C. STA. 172+47.03

P.T. STA. 199+68.26

## TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509.5100.S	POLYMER OVERLAY	SY	628

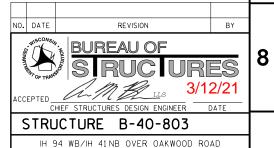


PLAN SINGLE SPAN 36W" PRESTRESSED GIRDER BRIDGE

> LIST OF DRAWINGS 1. POLYMER OVERLAY

STRUCTURE DESIGN CONTACTS:

PETER ROMENS (608) 261-6123 LAURA SHADEWALD (608) 26**7**-9592



MILWAUKEE CITY OAK CREEK DESIGN SPEC. REHABILITATION N/A

DESIGNED DESIGNED DRAWN
BY PJR CK'D. IFC BY

POLYMER OVERLAY

I.D. 1030-07-07D

MJH PLANS PJR

SHEET 1 OF

1030-07-77

## **DESIGN DATA**

#### LIVE LOAD:

DESIGN RATING: HL-93 INVENTORY RATING: RF = 1.22 OPERATIONAL RATING: RF = 1.58 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS.

## **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS. DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER

## TRAFFIC VOLUME

#### OAKWOOD RD.

IH 94

A.D.T. = 3,900 (2035) A.D.T. = 115,000 (2035) R.D.S. = 40 M.P.H. R.D.S. = 70 M.P.H.

#### CURVE DATA

P.I. STA. 186+72.49 △ = 42°08'21"LT

D = 1°32'55"

R = 3,700.00

T = 1,425.46'

L = 2,721,23'

E = 265.09' S.E. = 4.7%

P.C. STA. 172+47.03

## P.T. STA. 199+68.26

## TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509.5100.S	POLYMER OVERLAY	SY	628

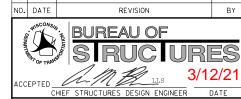
## LIST OF DRAWINGS

1. POLYMER OVERLAY

STRUCTURE DESIGN CONTACTS:

PETER ROMENS (608) 261-6123

LAURA SHADEWALD (608) 267-9592



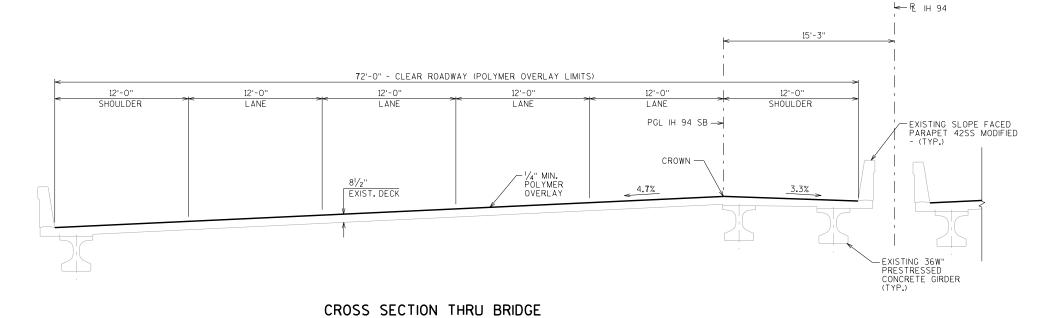
## STRUCTURE B-40-804

IH 94 EB/IH 41 SB OVER OAKWOOD ROAD MILWAUKEE OAK CREEK

DESIGN SPEC. REHABILITATION N/A DESIGNED DESIGNED DRAWN
BY PJR CK'D. IFC BY

SHEET 1 OF POLYMER OVERLAY

\* MEASURED ALONG TANGENT LINE



LOOKING NORTH

195+00

PLAN

SINGLE SPAN 36W" PRESTRESSED GIRDER BRIDGE

78'-61/4" - POLYMER OVERLAY LIMITS \*

76'-0" - SPAN \*

\_1'-3<sup>1</sup>/<sub>8</sub>''

-END OF DECK STA.195+52.37 15.25'LT

€ BRG. N. ABUT. STA. 195+51.11

-PGL IH 94 SB

TANGENT LINE-TANGENT TO PGL IH 94 SB @ STA. 195+14.94 15.25'LT

-TANGENT LINE- TANGENT TO PL 1H 94 @ STA.195+14.94

1'-31/8"

€ BRG. S. ABUT.-STA. 194+74.79 15.25'LT

END OF DECK -STA. 194+73.52

8

MJH PLANS PJR

1030-07-77

## **DESIGN DATA**

#### LIVE LOAD:

DESIGN RATING: HL-93 INVENTORY RATING: RF = 1.48 OPERATIONAL RATING: RF = 1.92 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS.

## **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS. DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

## TRAFFIC VOLUME

#### IH 94

B-40-806

A.D.T. = 162,000 (2035) R.D.S. = 70 M.P.H.

## TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509.5100.S	POLYMER OVERLAY	SY	828

## LIST OF DRAWINGS

1. POLYMER OVERLAY

STRUCTURE DESIGN CONTACTS: PETER ROMENS (608) 261-6123

LAURA SHADEWALD (608) 26**7**-9592

REVISION

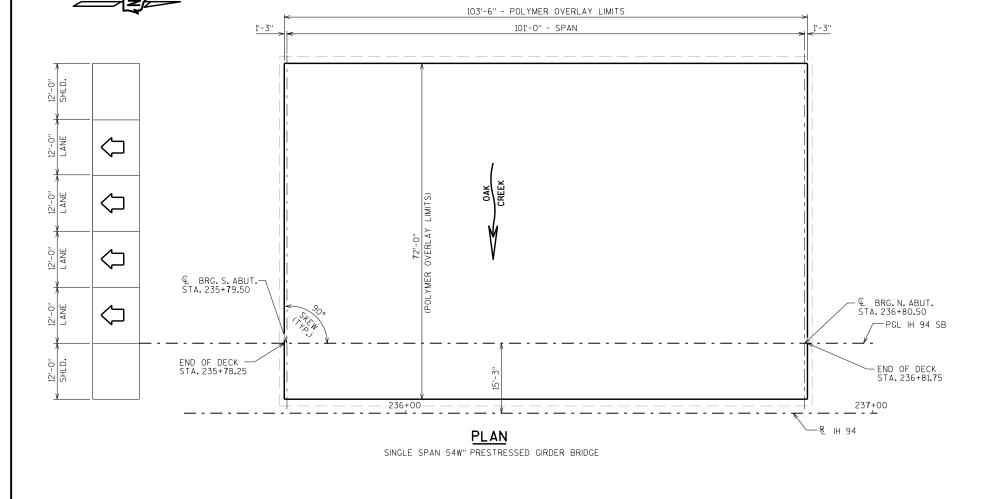


STRUCTURE B-40-807

IH 94 SB OVER OAK CREEK MILWAUKEE CITY OAK CREEK

DESIGN SPEC. REHABILITATION N/A DESIGNED DESIGNED DRAWN
BY PJR CK'D. IFC BY

POLYMER OVERLAY



LANE

CROWN -

12'-0" LANE

2.0%

EXISTING SINGLE — SLOPED PARAPET 42SS MODIFIED (TYP.)

EXISTING 54W" PRESTRESSED CONCRETE GIRDER (TYP.)

8

B-40-807

12'-0"

SHOULDER

1/4" MIN. — POLYMER OVERLAY

CROSS SECTION THRU BRIDGE

72'-0" - CLEAR ROADWAY (POLYMER OVERLAY LIMITS)

LANE

LOOKING NORTH

12'-0"

LANE

2.0%

12'-0"

SHOULDER

PGL IH 94 SB

9½" EXIST. DECK

MJH PLANS PJR SHEET 1 OF

BY



1030-07-77

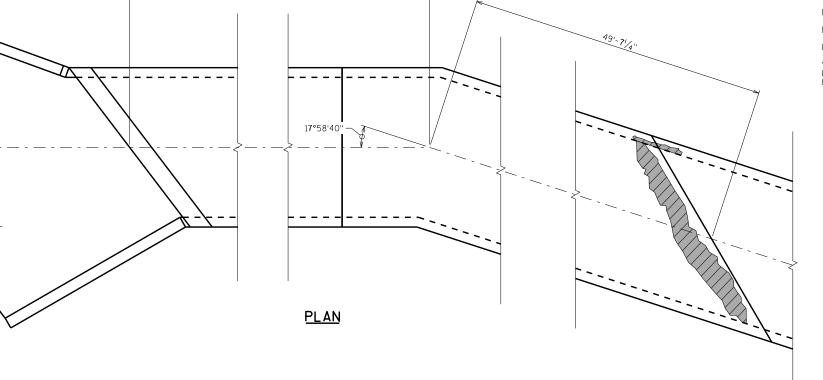
## **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

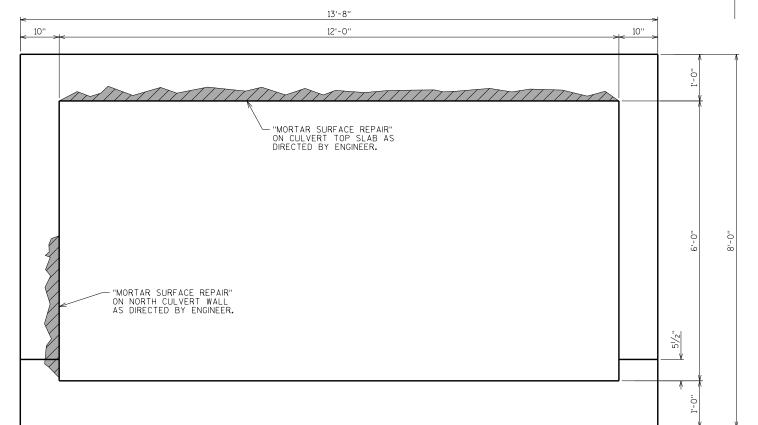
DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

REPAIR LOCATIONS ARE BASED ON CULVERT INSPECTION REPORT.

"MORTAR SURFACE REPAIR" ITEM SHALL APPLY TO ALL SURFACE REPAIRS WHICH CANNOT BE CONVENTIONALLY POURED WITH CONCRETE FROM ABOVE.SEE SPECIAL PROVISIONS FOR REQUIREMENTS.



157'-6"



## TOTAL ESTIMATED QUANTITIES

8

INLET APRON-

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
SPV.0165	MORTAR SURFACE REPAIR	SF	30

## SECTION THRU CULVERT

LOOKING EAST

# LIST OF DRAWINGS

1. GENERAL PLAN

#### STRUCTURE DESIGN CONTACTS:

PETER ROMENS (608) 261-6123 LAURA SHADEWALD (608) 267-9592

NO.	DATE		f	REVISION			BY
	EPTED_	-	SIR SIR		Ls Ls		<b>E</b> S <b>2/21</b>
	С	HIEF					DATE
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5	STRL	JC	IUKE	C-40-	030	)	
\ 			VER N. BRAI				BUTARY
IH				NCH OAK			
IF COL	1 41/94	4 O'	VER N. BRAI	NCH OAK		TRIE	

GENERAL PLAN

SHEET 1 OF

Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

# STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

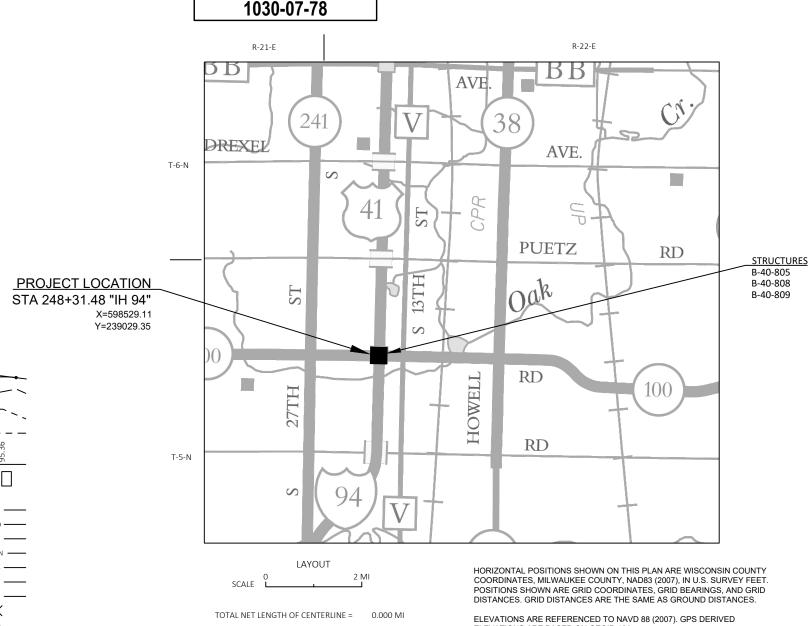
PLAN OF PROPOSED IMPROVEMENT

# **IH 41 NORTH SOUTH FREEWAY**

STH 100 (RYAN RD) BRIDGES

STATE PROJECT NUMBER

# IH 41 **MILWAUKEE COUNTY**



May 11, 2021

ORDER OF SHEETS

Section No. Section No. Typical Sections and Details Estimate of Quantities Section No. Section No. Miscellaneous Quantities

Right of Way Plat Plan and Profile Section No. Section No. Standard Detail Drawings Section No.

TOTAL SHEETS =

DESIGN DESIGNATION			STH 100 (RYAN ROAD)		OFF-RAMP TO STH 100		ON-RAMP FROM STH 100
A.A.D.T.	2015	=	28300	=	4200	=	4900
A.A.D.T.	2035	=	33380	-		=	
D.H.V.		=	2800	-		=	
D.D.		=	51/49	-		=	
T.		=	16%	=		=	
DESIGN SPEED		=	50 MPH	=		=	
FSALS		=		=		=	

IH 41 NB

IH 41 SB

#### CONVENTIONAL SYMBOLS

CORPORATE LIMITS PROPERTY LINE LOTLINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT COMBUSTIBLE FLUIDS MARSH AREA

WOODED OR SHRUB AREA

FIBER OPTIC SANITARY SEWER STORM SEWER TELEPHONE UTILITY PEDESTAL POWER POLE

TELEPHONE POLE

PROFILE

GRADE LINE

ORIGINAL GROUND

GRADE ELEVATION

CULVERT (Profile View)

SPECIAL DITCH

UTILITIES

ELECTRIC

MARSH OR ROCK PROFILE

(To be noted as such)

Ø

₫

ELEVATIONS ARE BASED ON GEOID 12A.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT

CONTRACT

PROJECT

STATE PROJECT

1030-07-78

PREPARED BY					
Surveyor _					
Designer _	WISDOT				
Project Manager _	EVAN LIMBERATOS, P.E.				
Regional Examiner _					
Regional Supervisor	WAFA ELQAQ, P.E.				

Evan Limberatos Ε

FILE NAME: N:\PDS\C3D\10300708\SHEETSPLAN\010101\_TI.DWG

9/15/2020 10:17 AM

JOHANSEN, AMANDA A

2

**GENERAL NOTES** 

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

## ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
PLAN DETAILS
TRAFFIC CONTROL
ALIGNMENT LAYOUT

#### OTHER CONTACTS

## **WISDOT DESIGN**

EVAN LIMBERATOS - PROJECT MANAGER 141 NW BARSTOW ST. WAUKESHA, WI 53187 0798 PHONE: (262) 548-8797 CELL: (414) 750-3362 EVAN.LIMBERATOS@DOT.WI.GOV

**WISCONSIN DNR** 

MS. KRISTINA BETZOLD 2300 N DR. MARTIN LUTHER KING DRIVE MILWAUKEE, WI 53212 PHONE: (414) 507-4946

KRISTINA.BETZOLD@WISCONSIN.GOV

#### MILWAUKEE COUNTY TRANSIT SYSTEM

MS. MELANIE FLYNN 1942 N. 17TH ST. MILWAUKEE, WI 53205 PHONE: (414) 343-1764 MFLYNN@MCTS.ORG

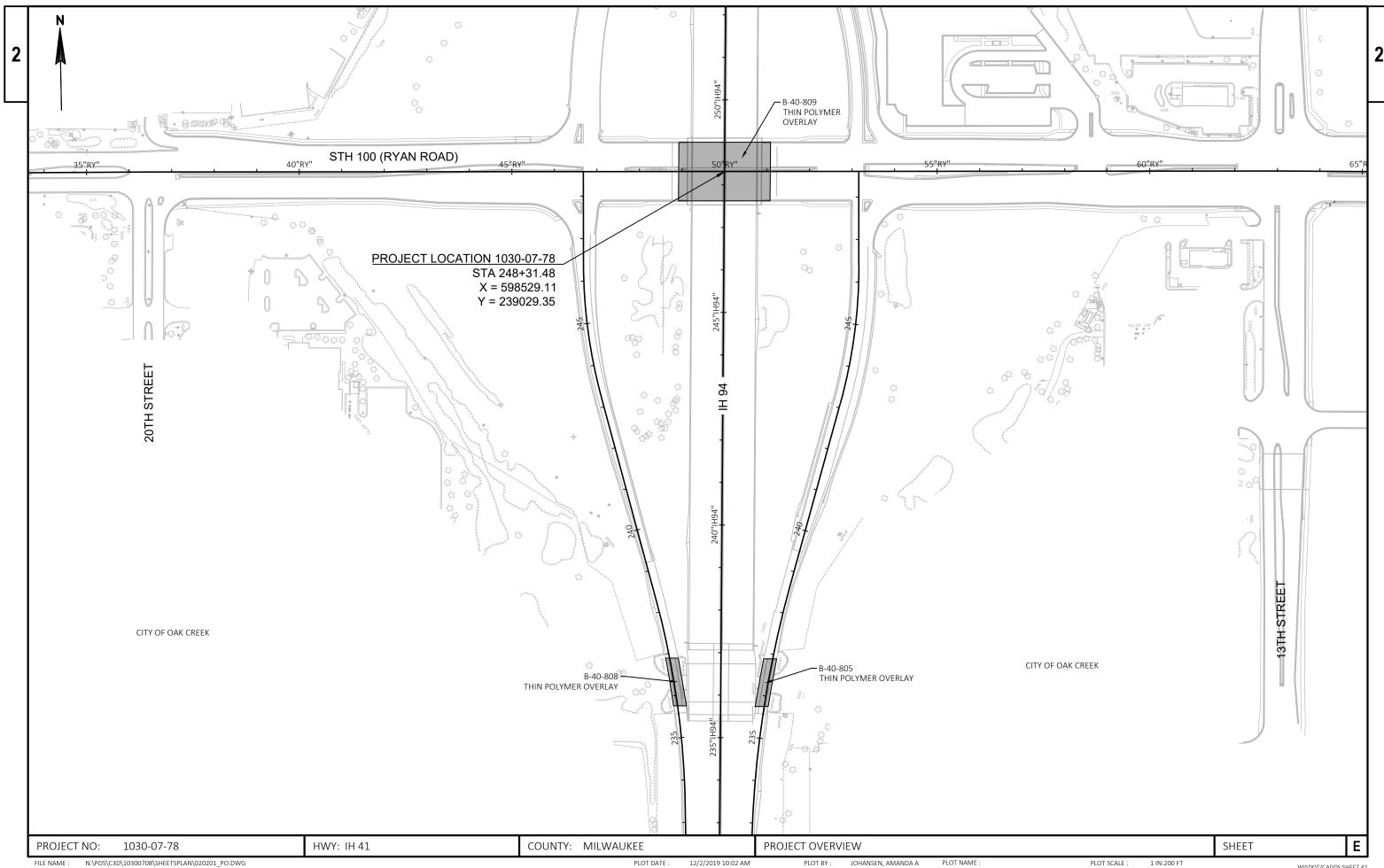
## WISCONSIN COACH LINES, INC.

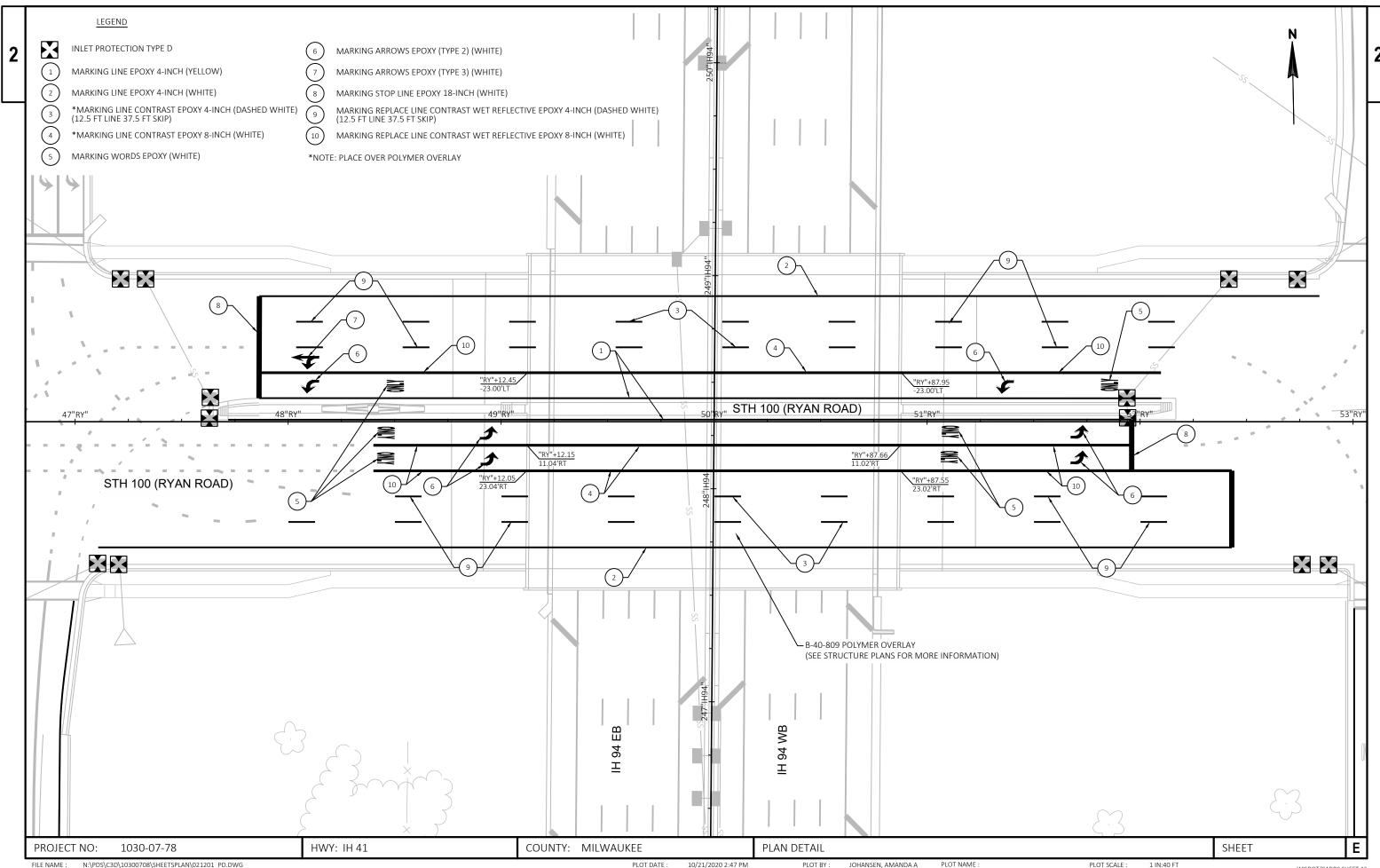
MR. TOM DIECKELMAN 1520 ARCADIAN AVENUE WAUKESHA, WI 53186 PHONE: (262) 542-8861 EXT. 140 TOM.DIECKELMAN@COACHUSA.COM



PROJECT NO: 1030-07-78 HWY: IH 41 COUNTY: MILWAUKEE GENERAL NOTES SHEET: E

FILE NAME : N:\PDS\C3D\10300708\SheetsPlan\020101\_gn.pptx PLOT NAME : \_\_\_\_\_ PLOT NAME : \_\_\_\_\_ PLOT SCALE : 1:1





N:\PDS\C3D\10300708\SHEETSPLAN\021201\_PD.DWG LAYOUT NAME - 021201

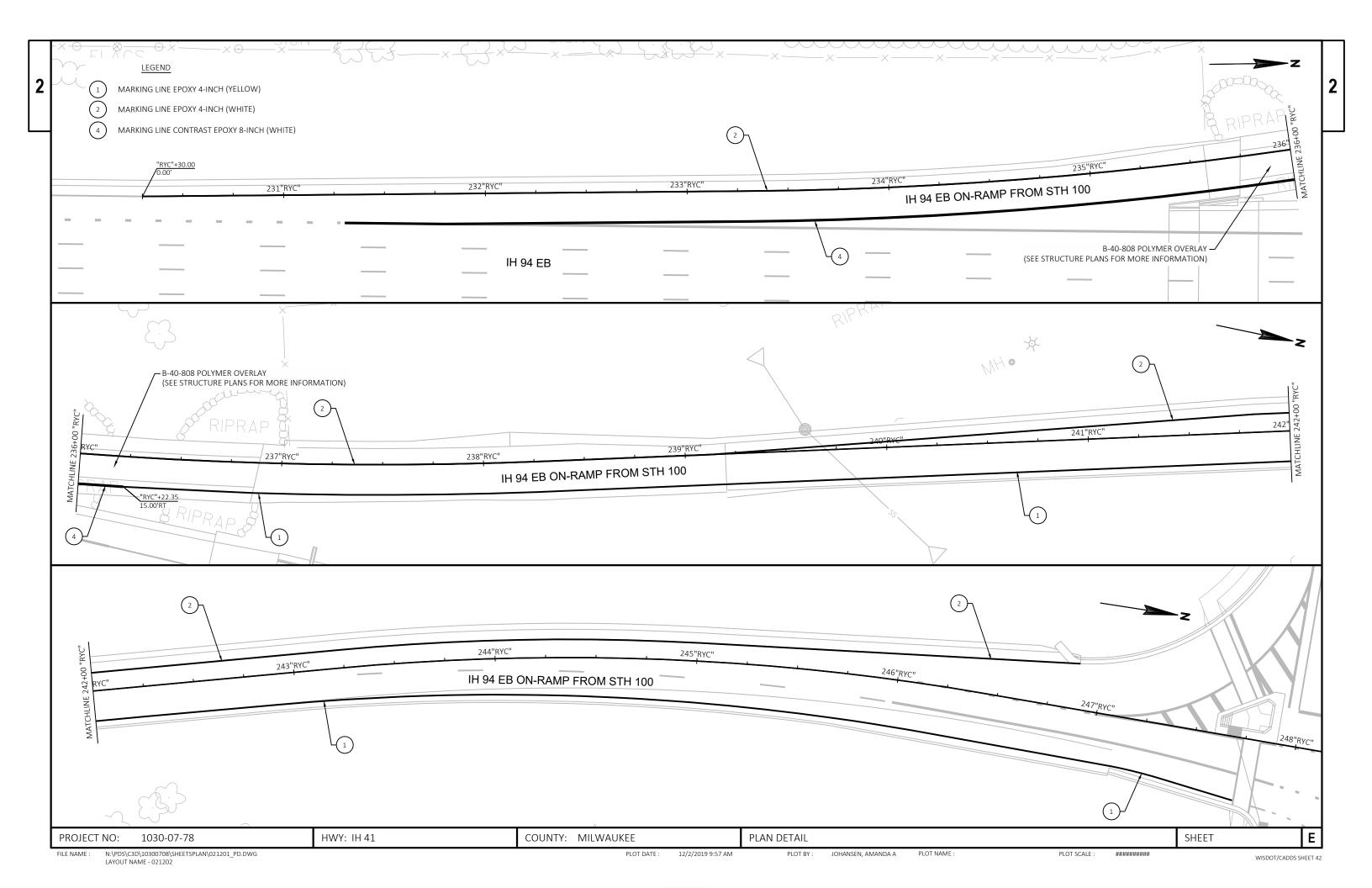
PLOT DATE :

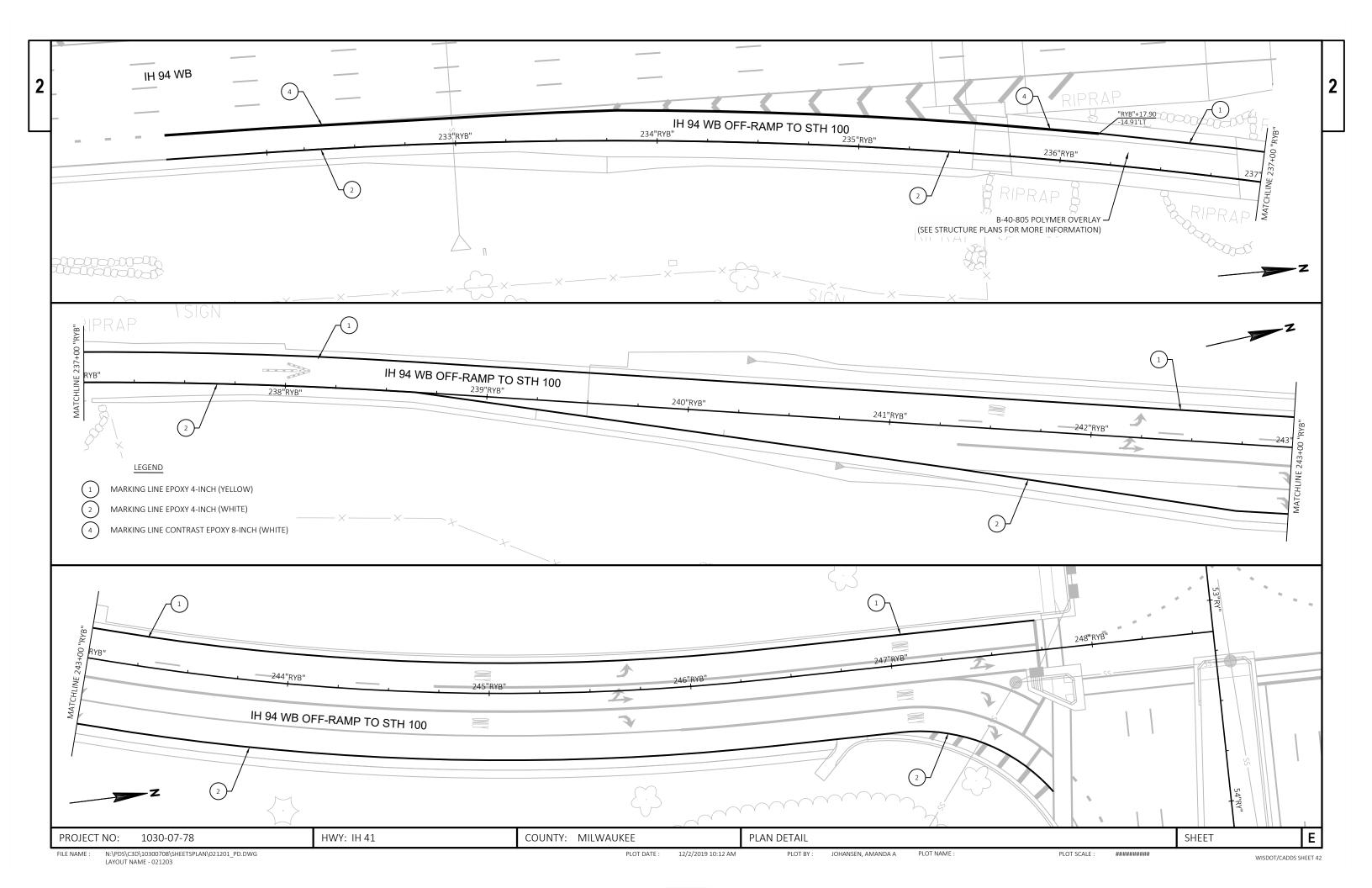
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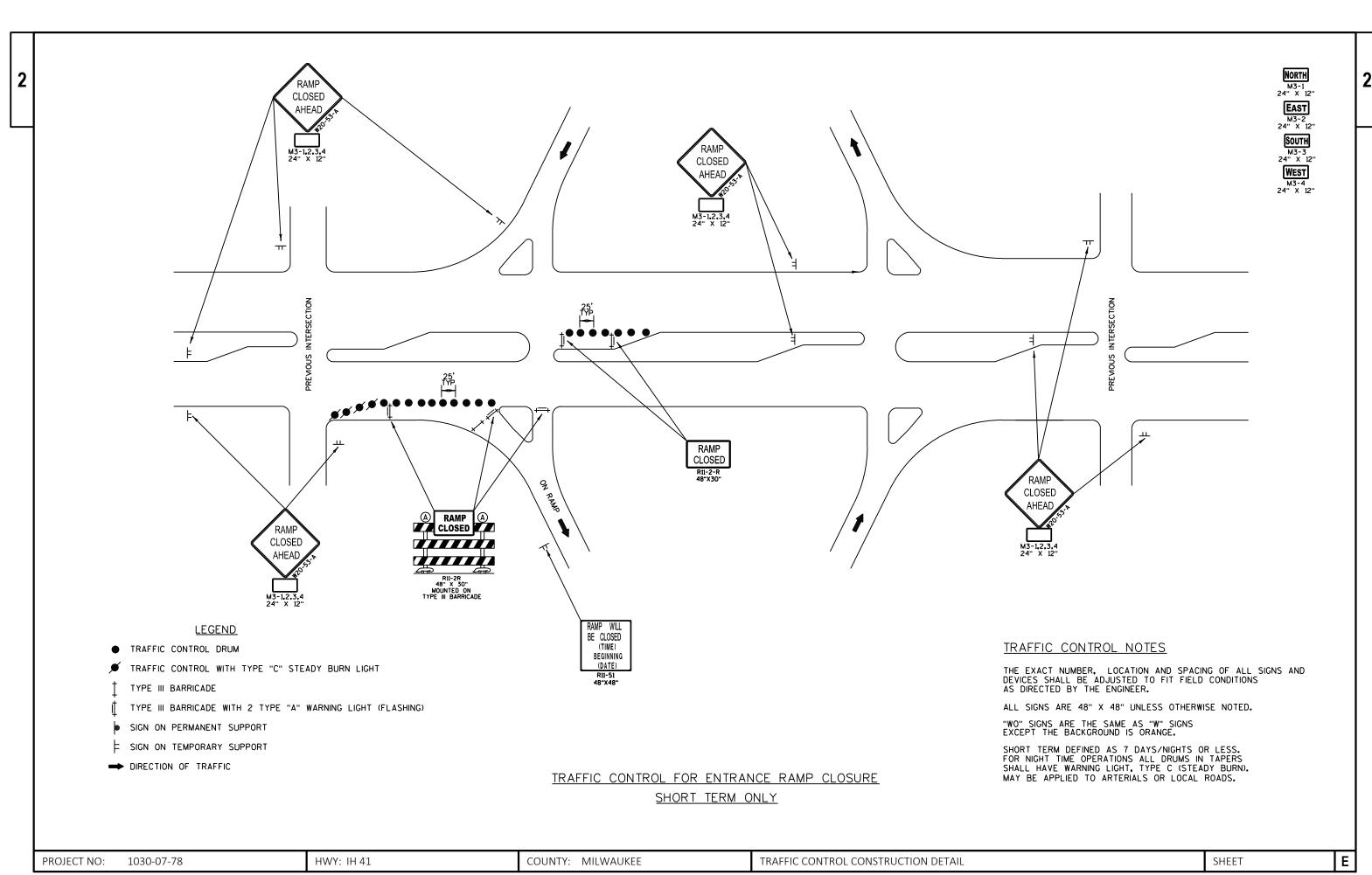
PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE :

1 IN:40 FT

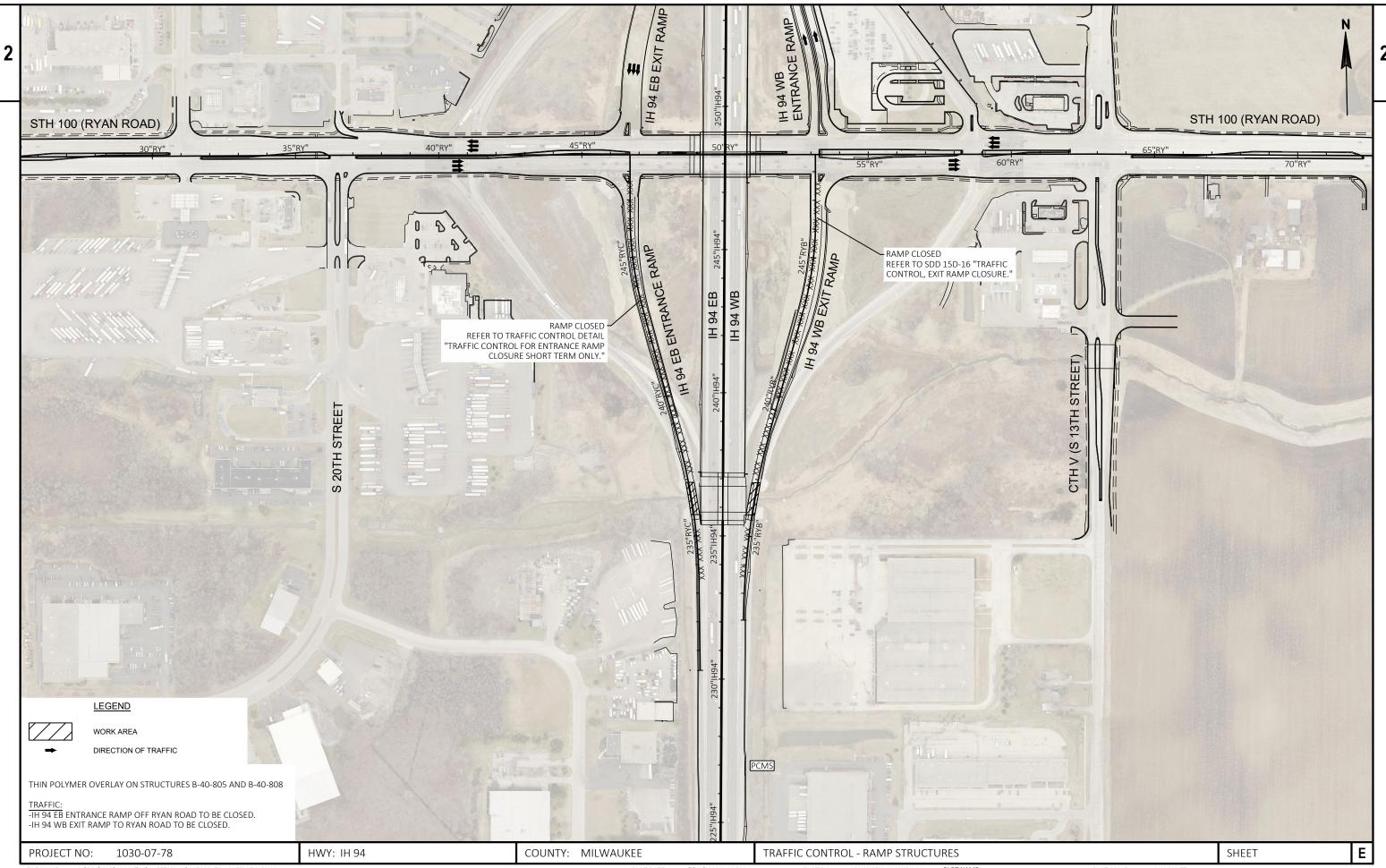




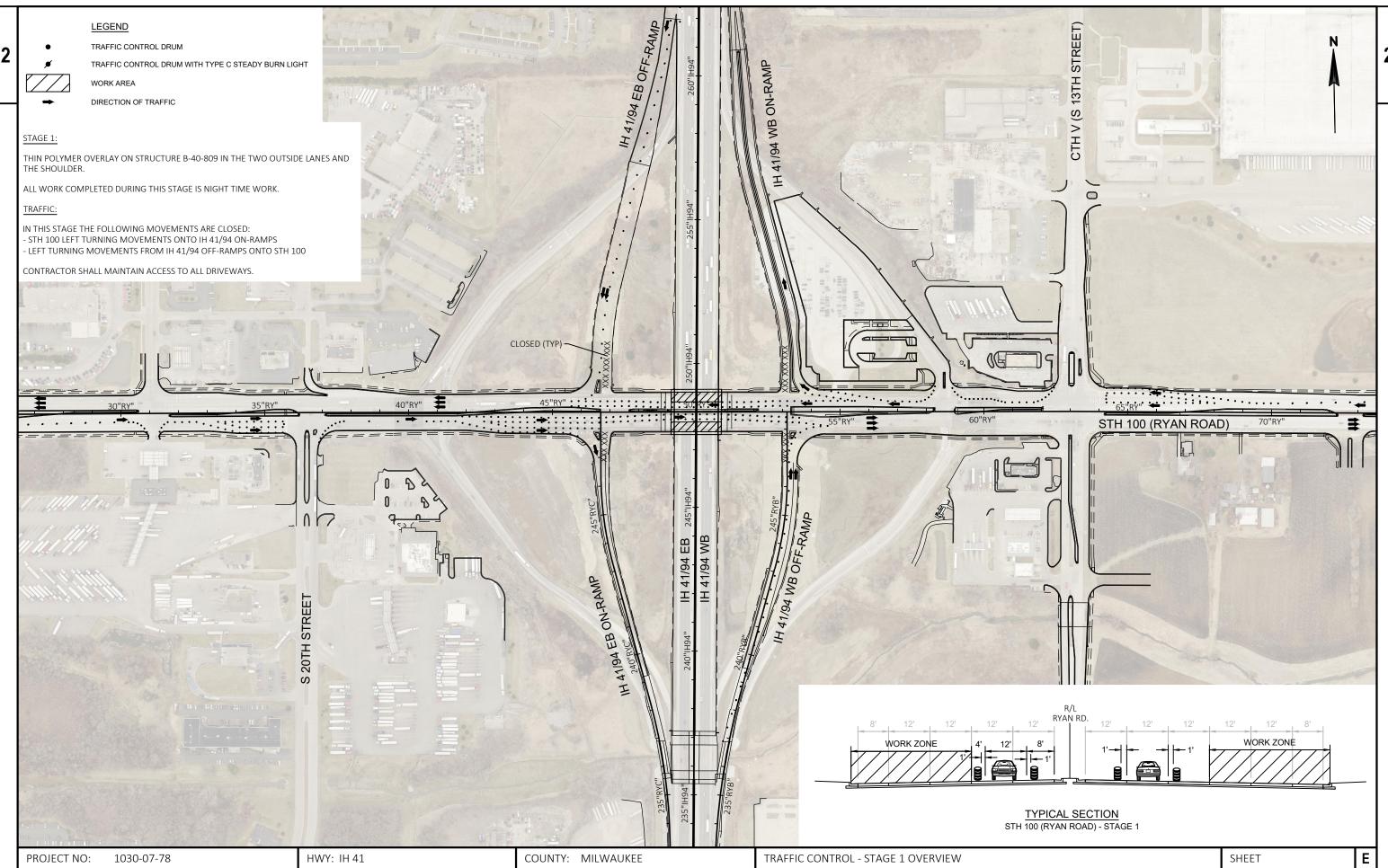


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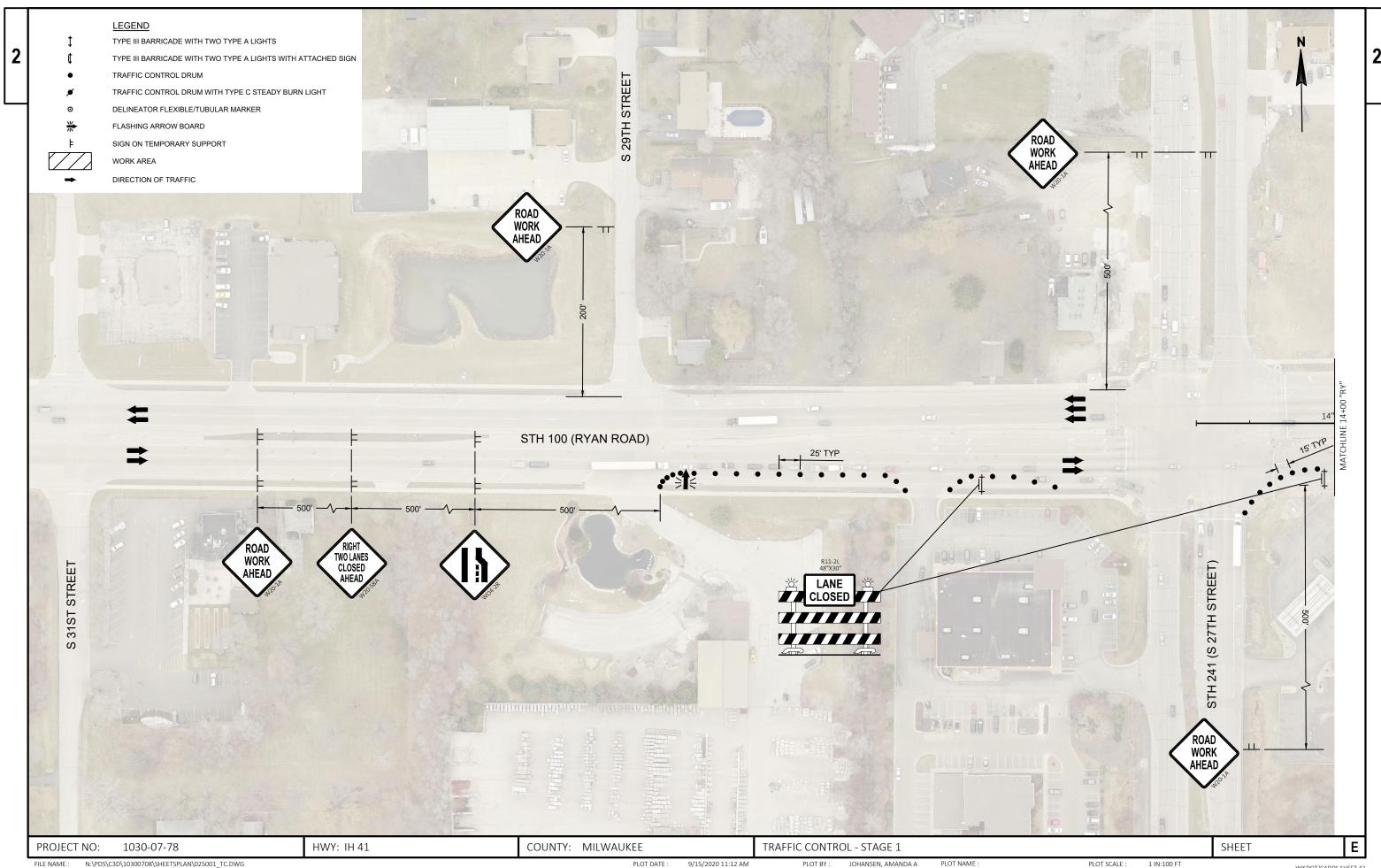
LAYOUT NAME - 025000



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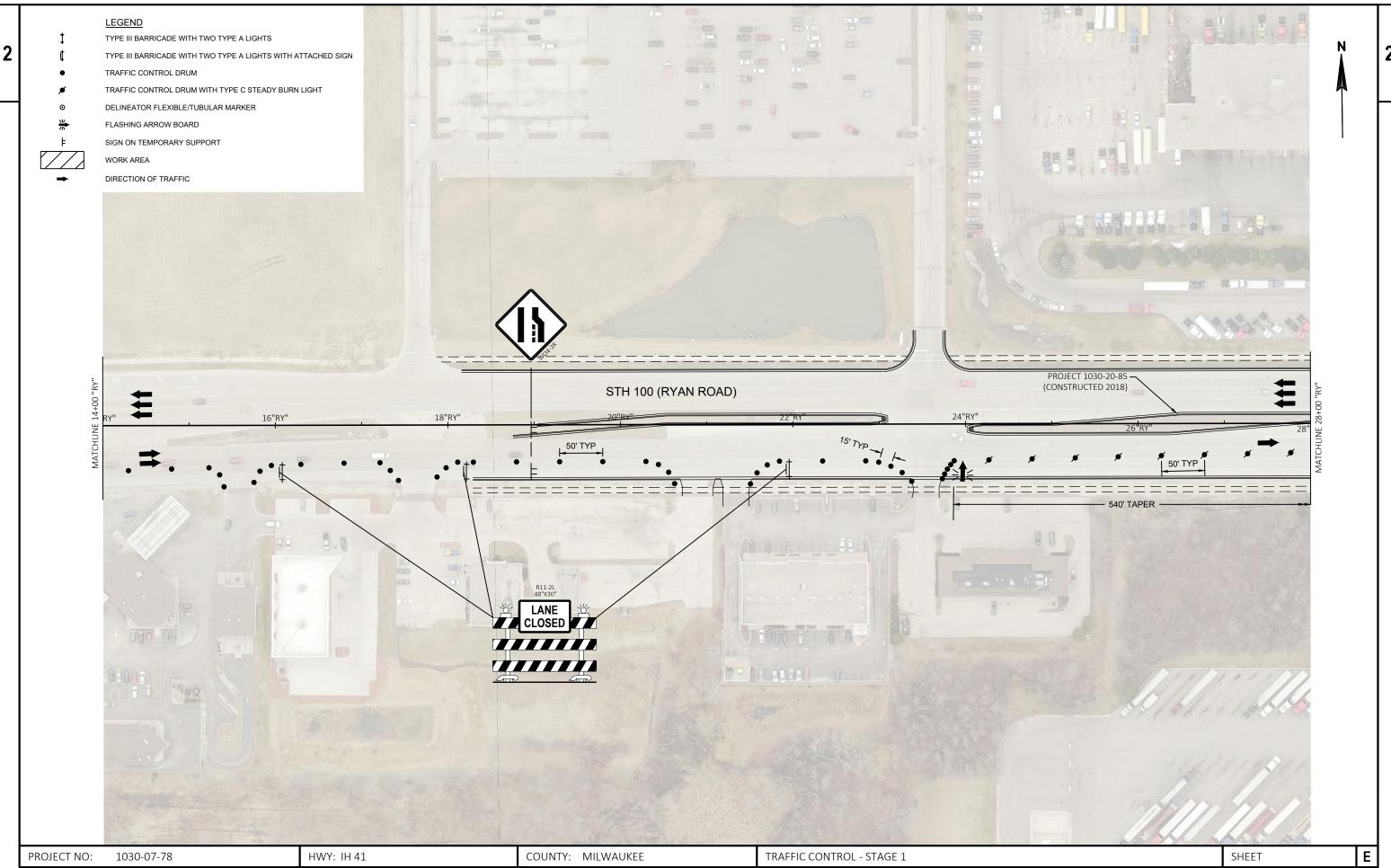


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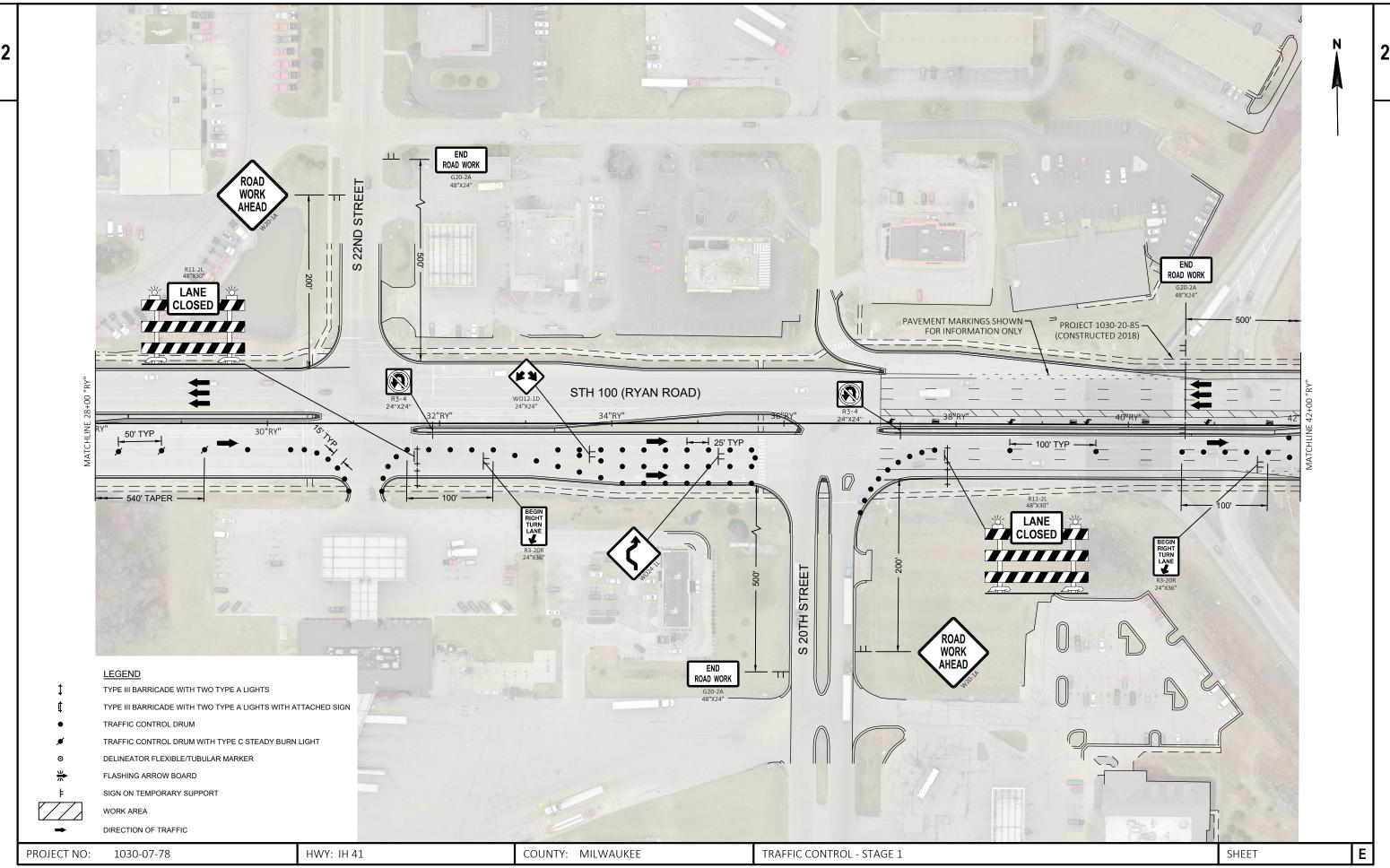


N:\PD\$\C3D\10300708\\$HEET\$PLAN\025001\_TC.DWG LAYOUT NAME - 025001 PLOT DATE : 9/15/2020 11:12 AM PLOT BY: JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

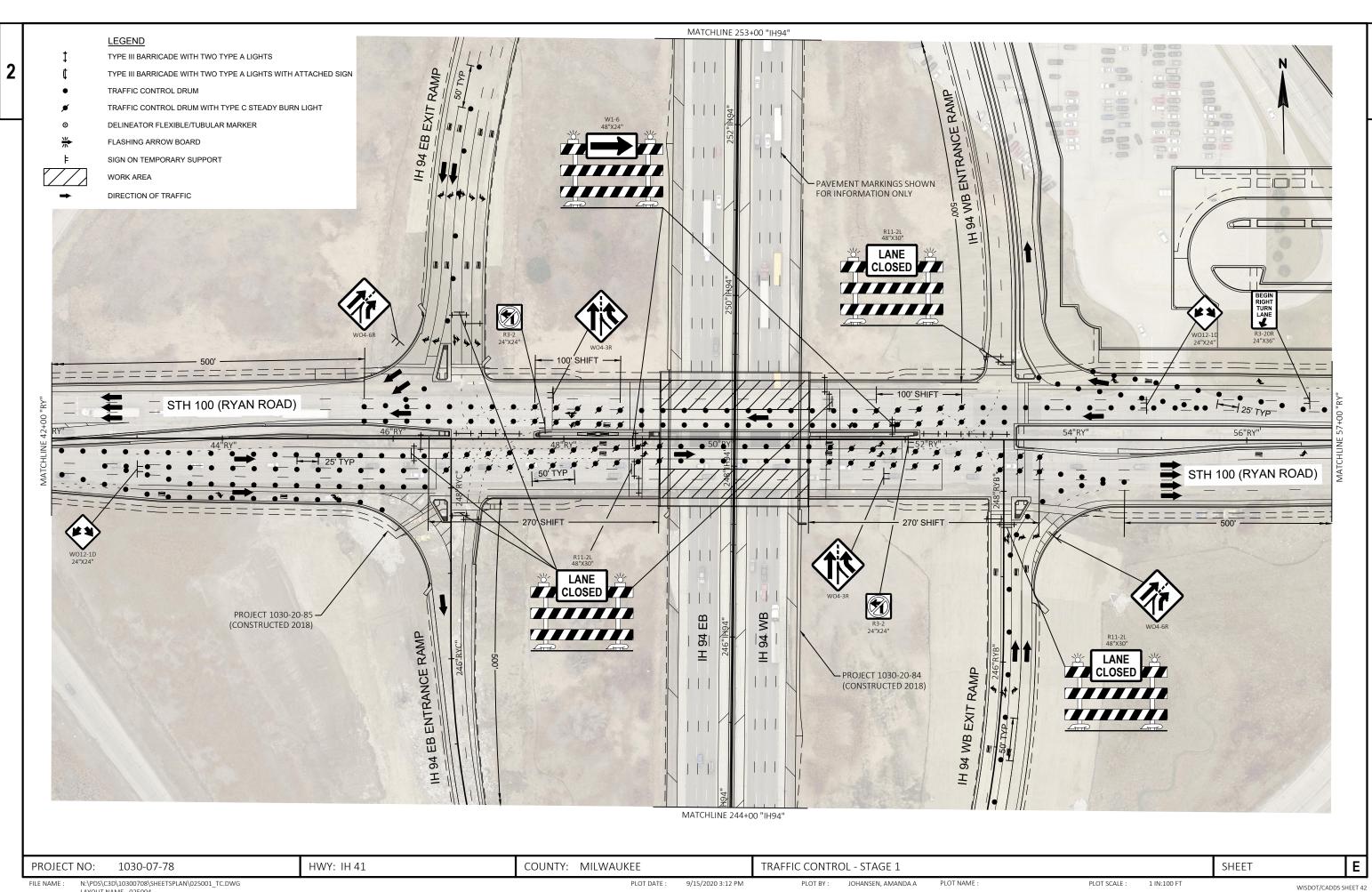


WISDOT/CADDS SHEET 42



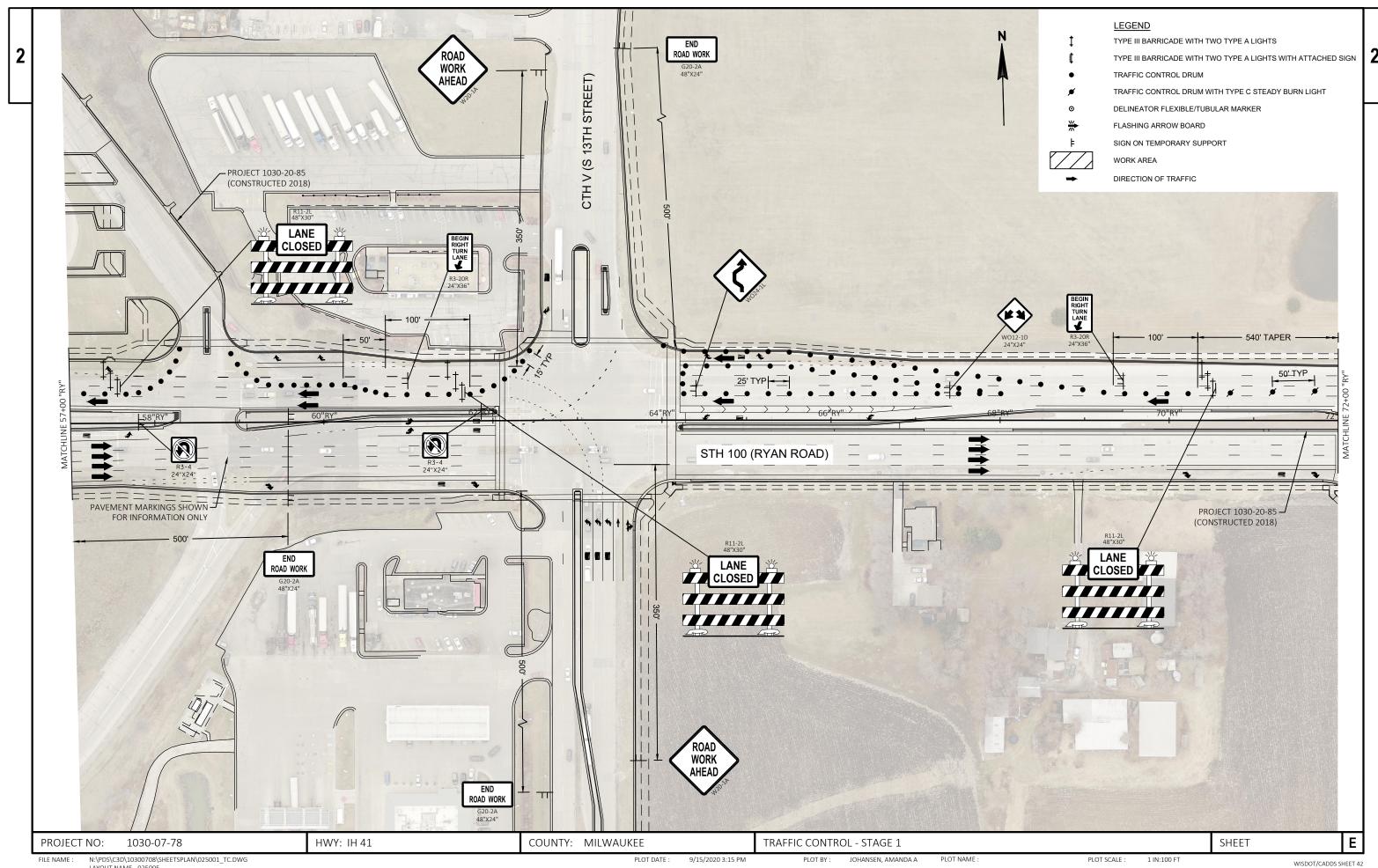
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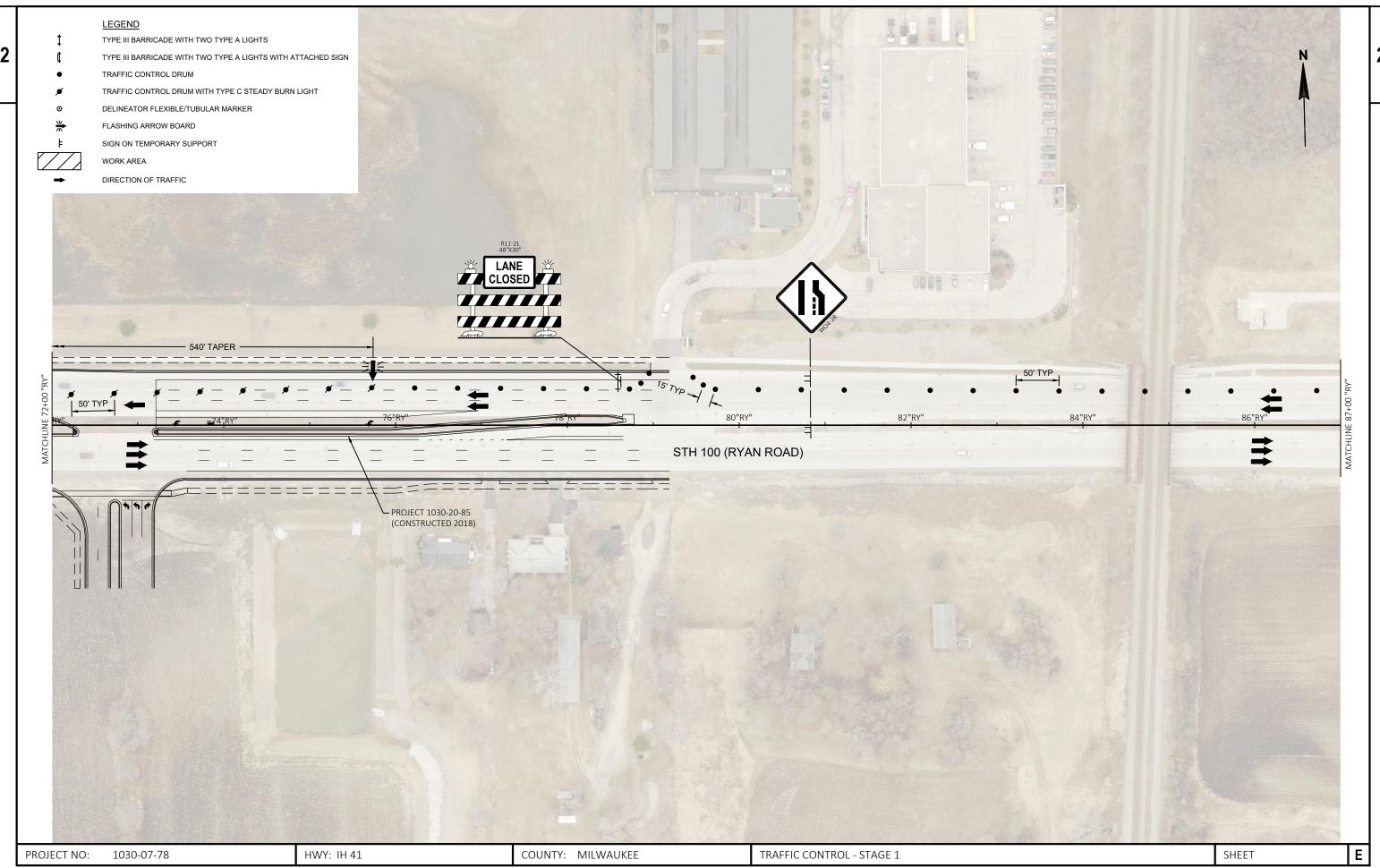


PLOT BY: JOHANSEN, AMANDA A PLOT NAME : N:\PDS\C3D\10300708\SHEETSPLAN\025001 TC.DWG PLOT DATE : PLOT SCALE : FILE NAME : 9/15/2020 3:12 PM 1 IN:100 FT

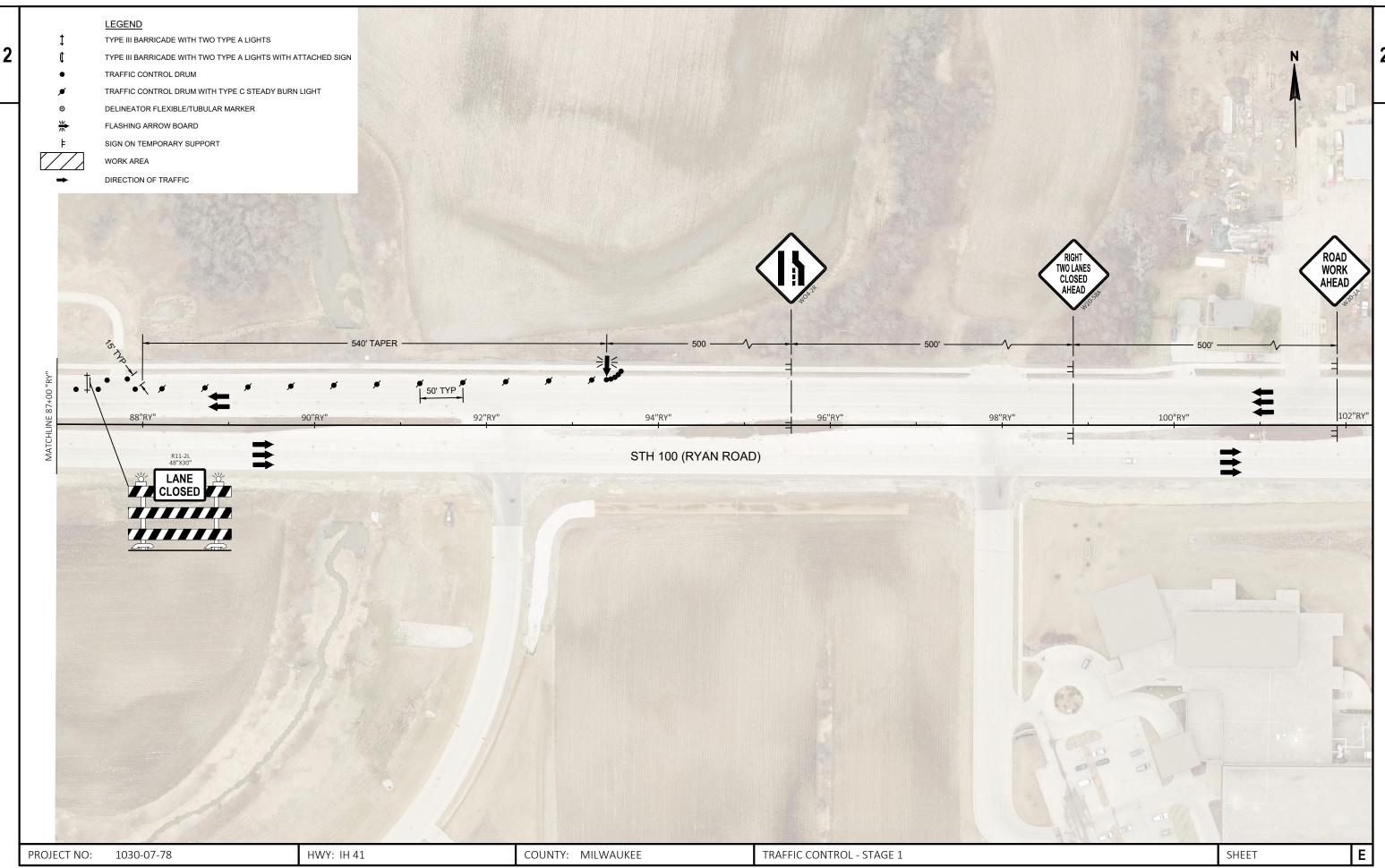
LAYOUT NAME - 025004



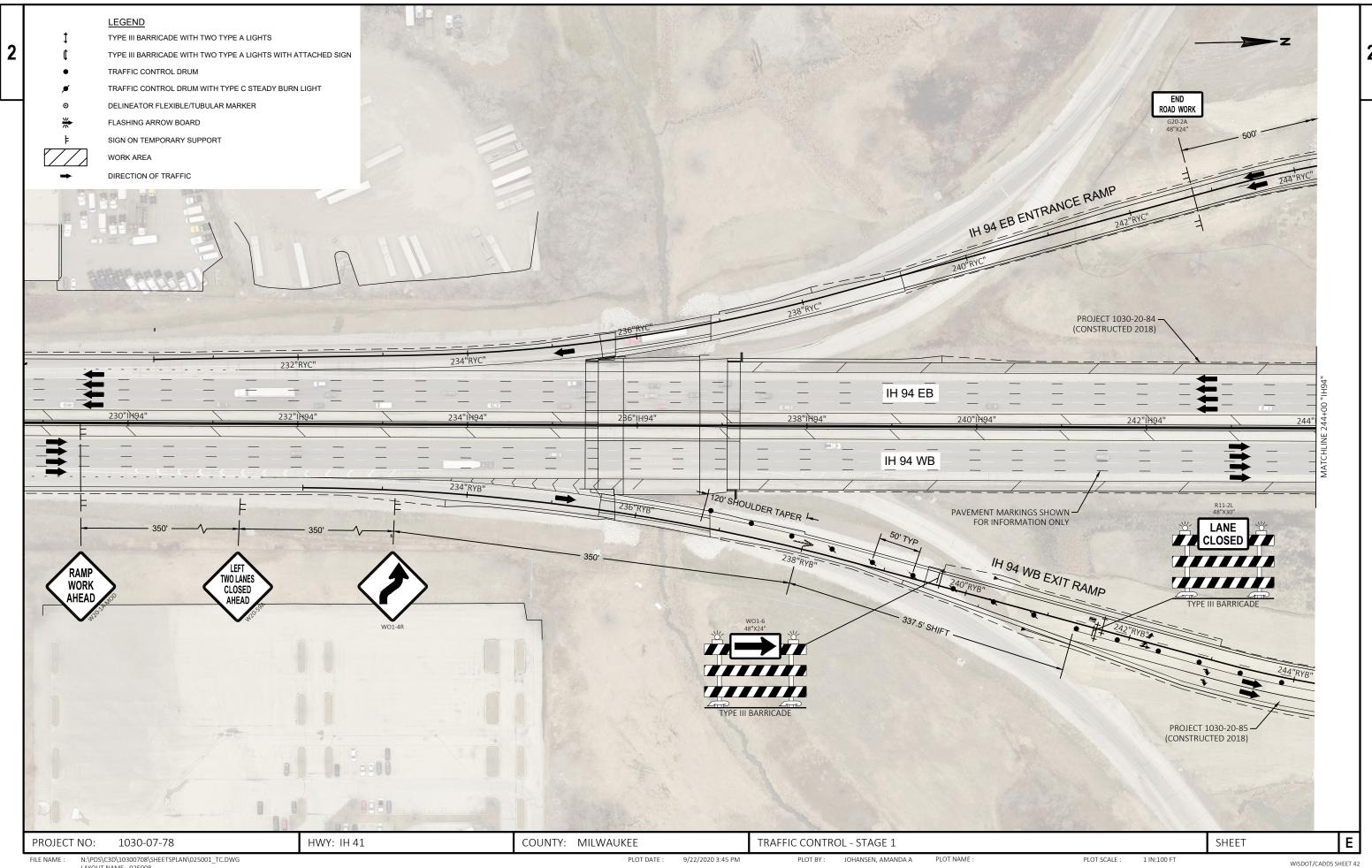
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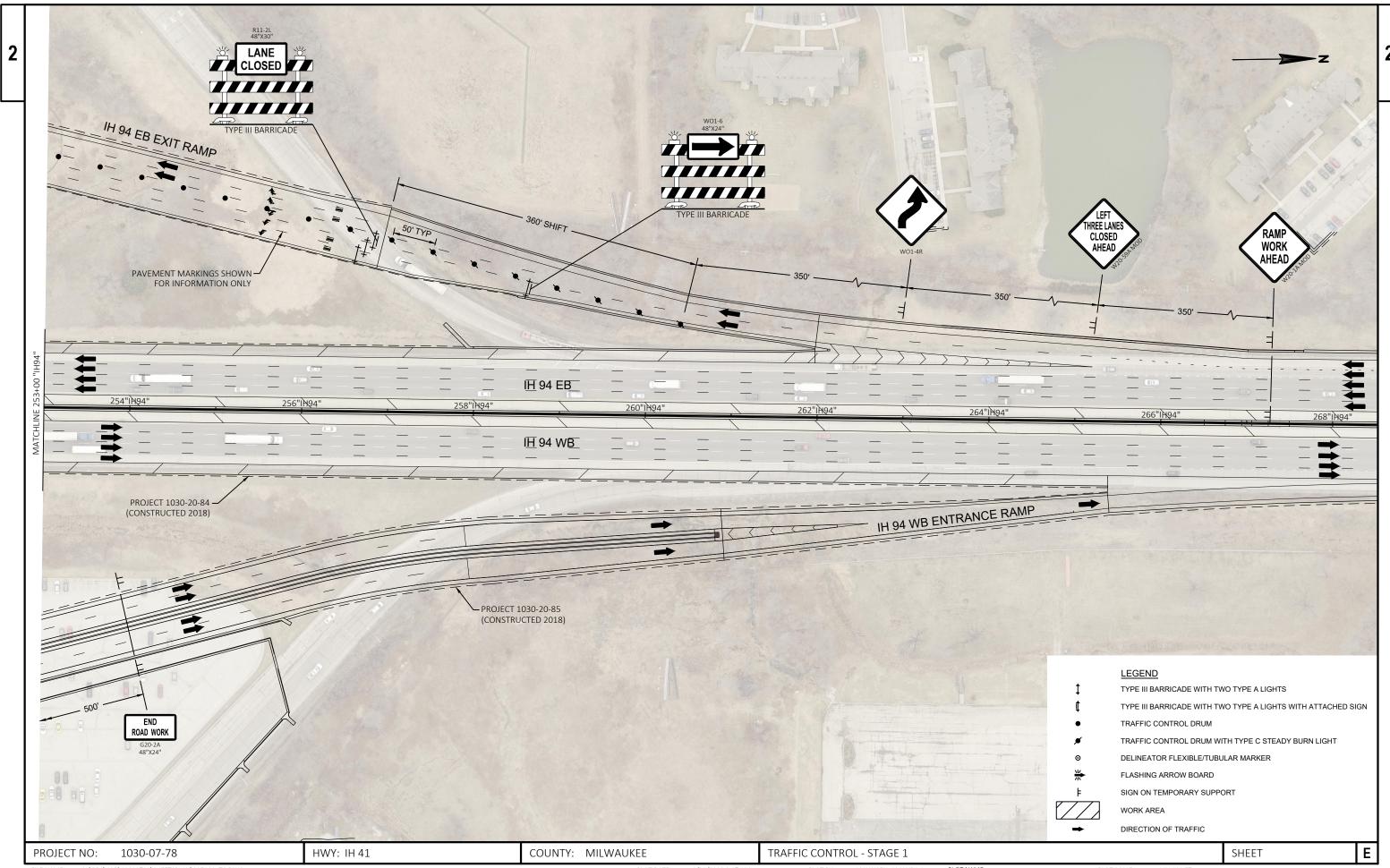


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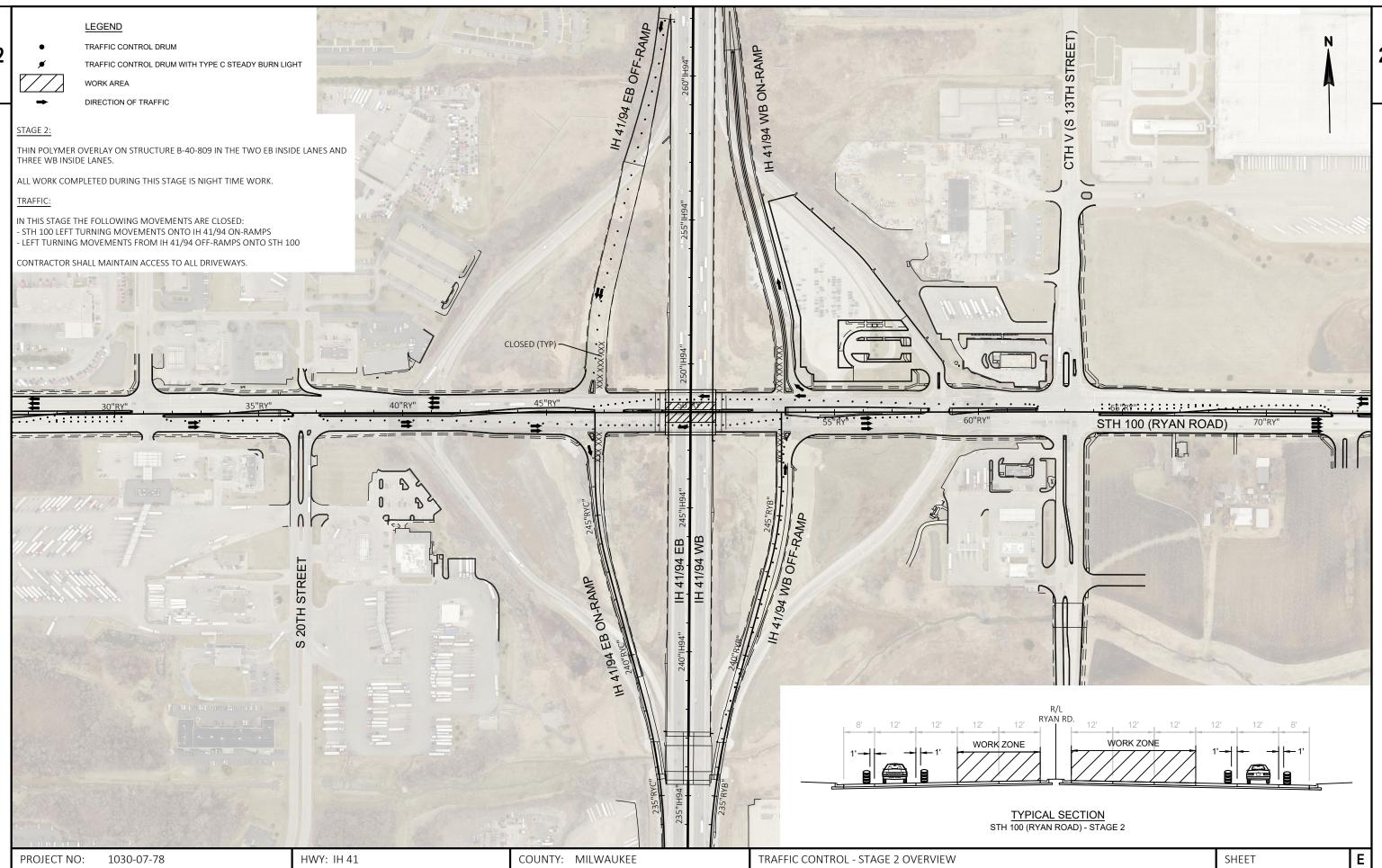


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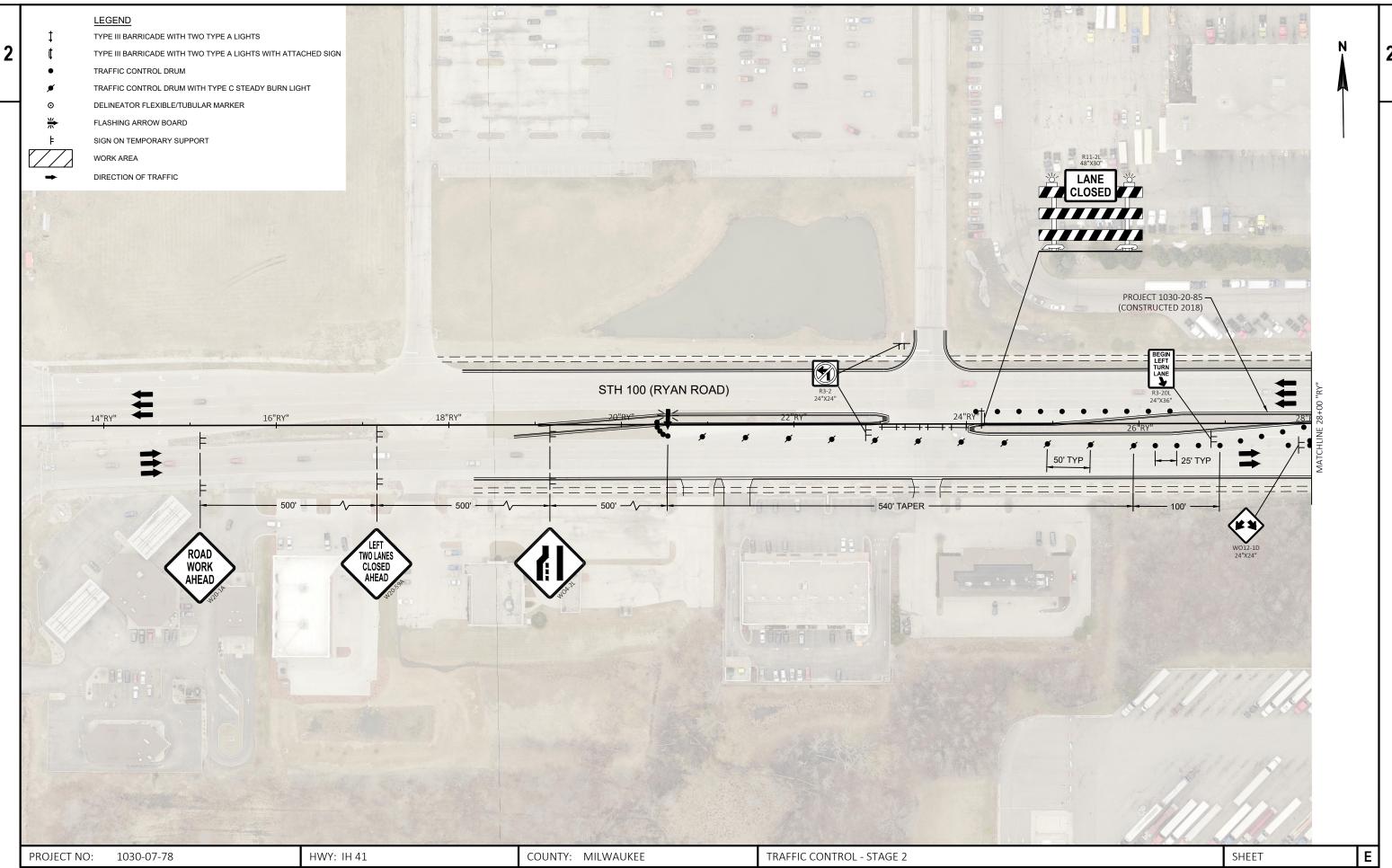




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LAYOUT NAME - 025009



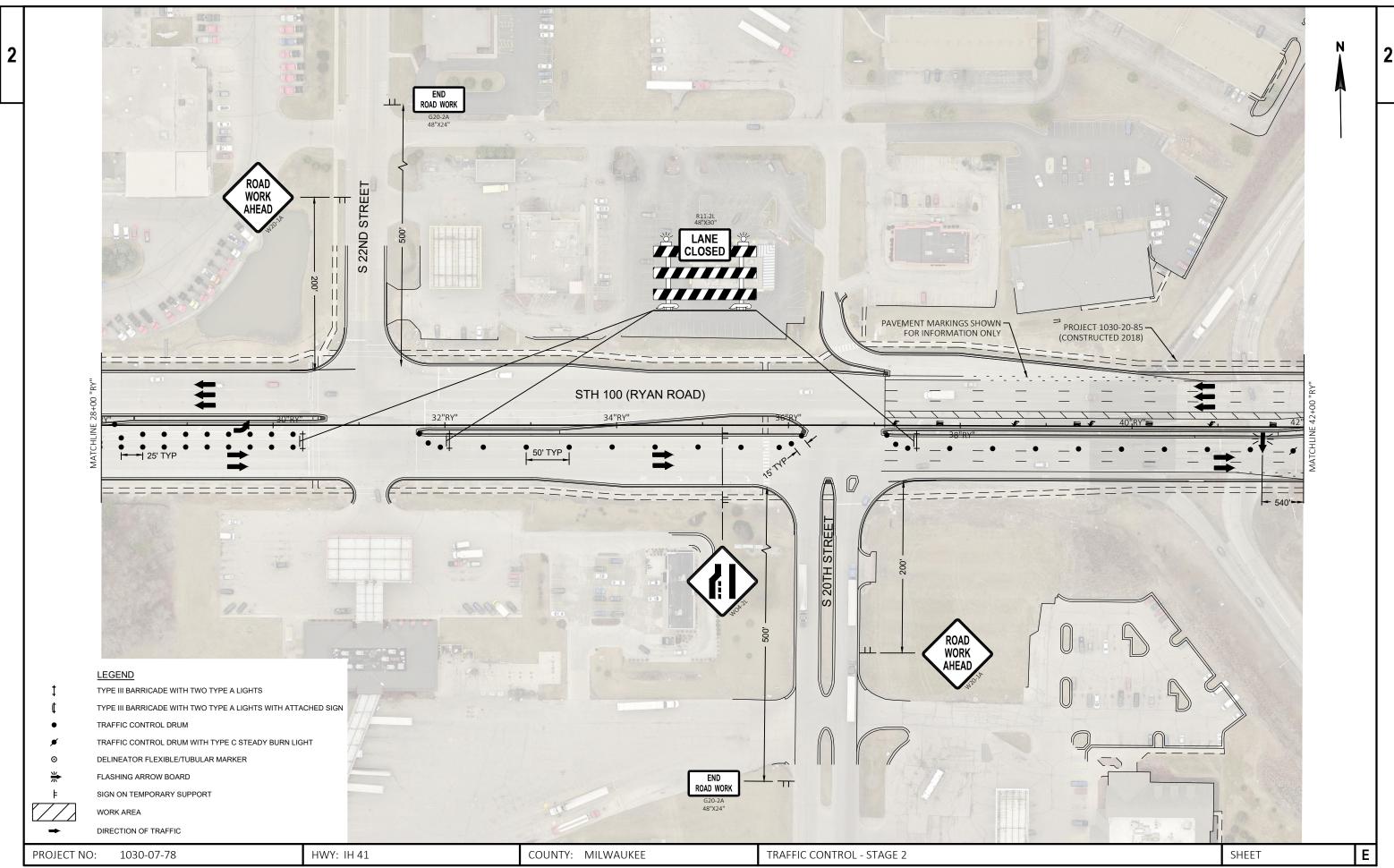
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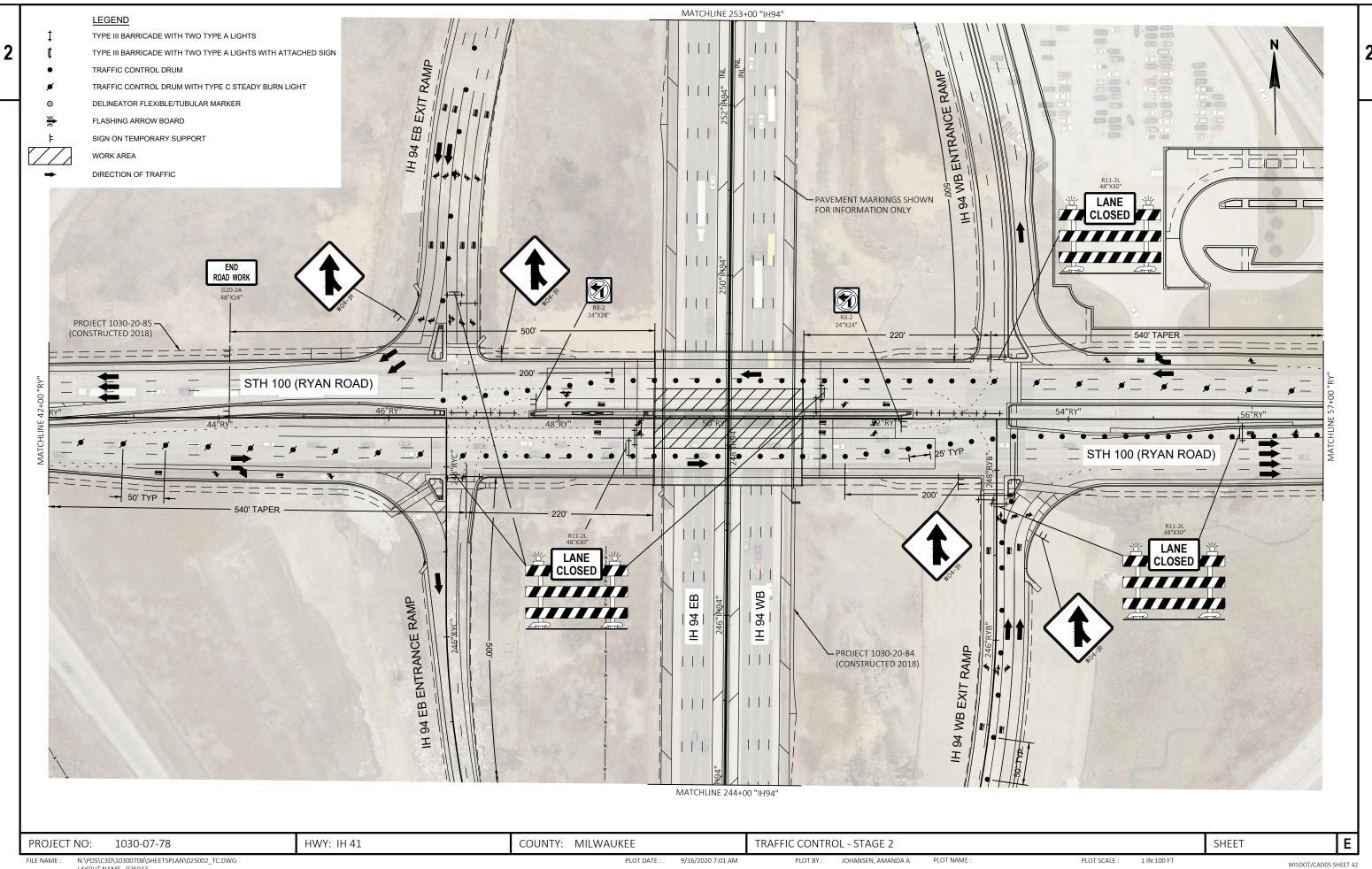
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WISDOT/CADDS SHEET 42

LAYOUT NAME - 025011

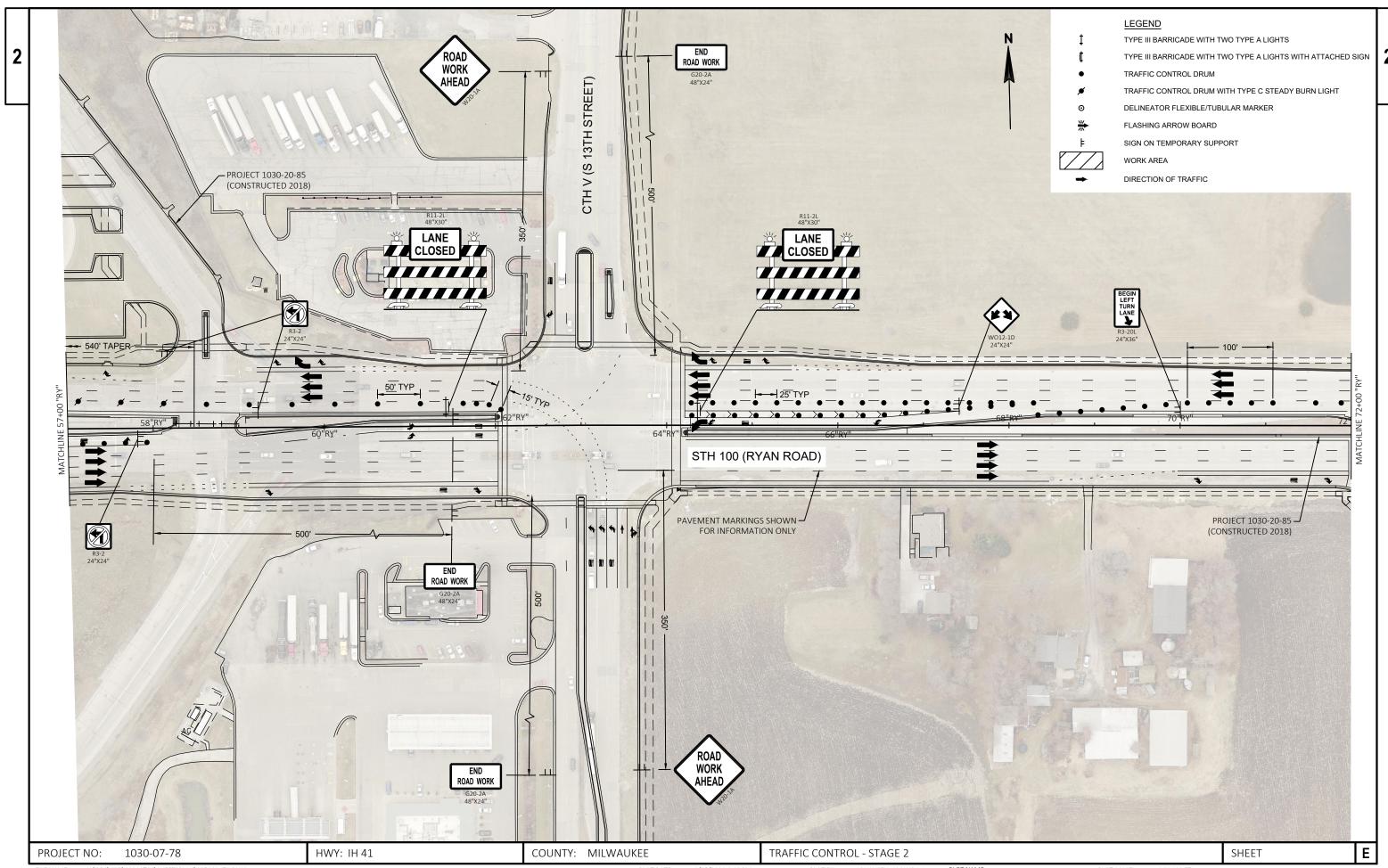


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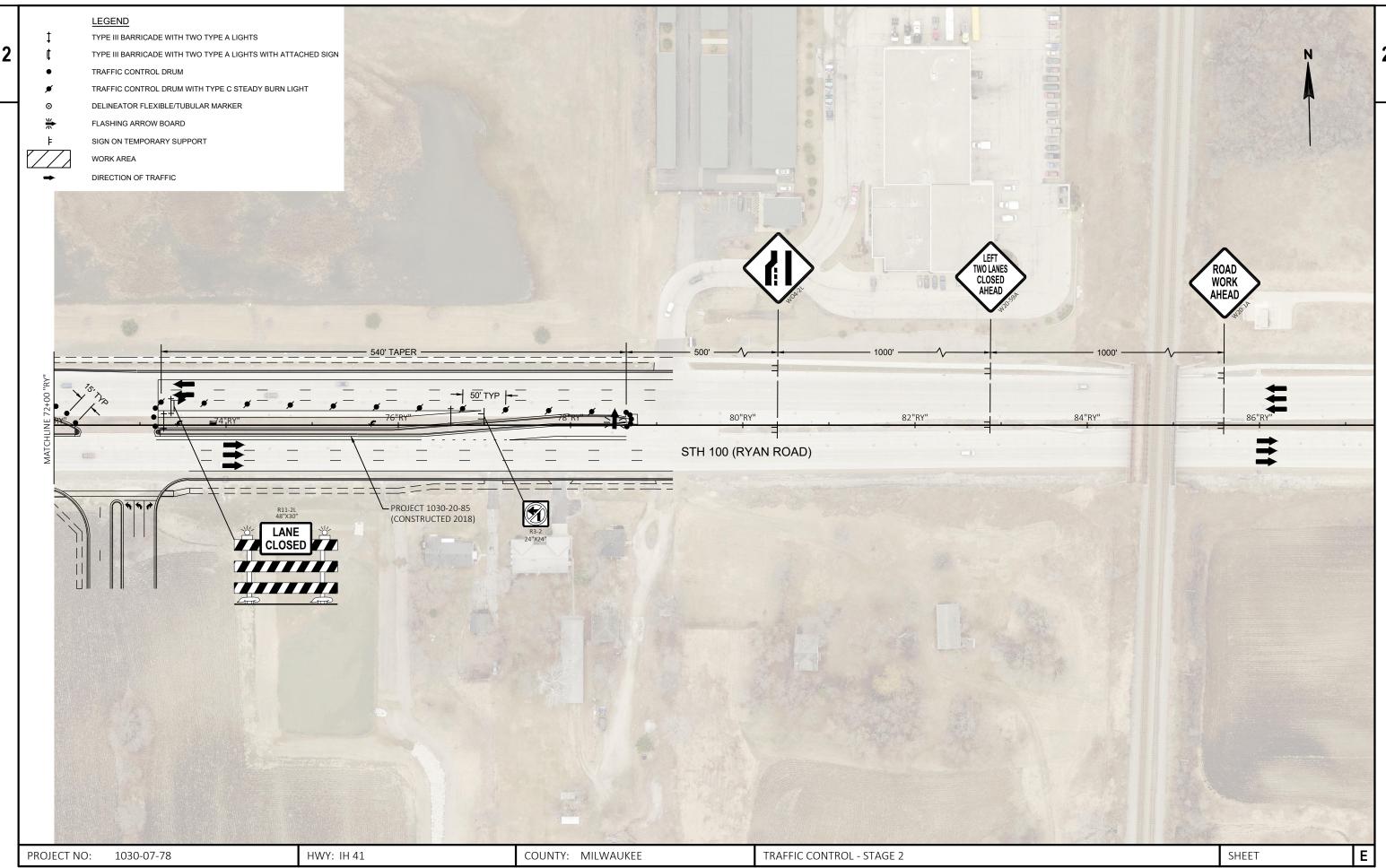
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LAYOUT NAME - 025013

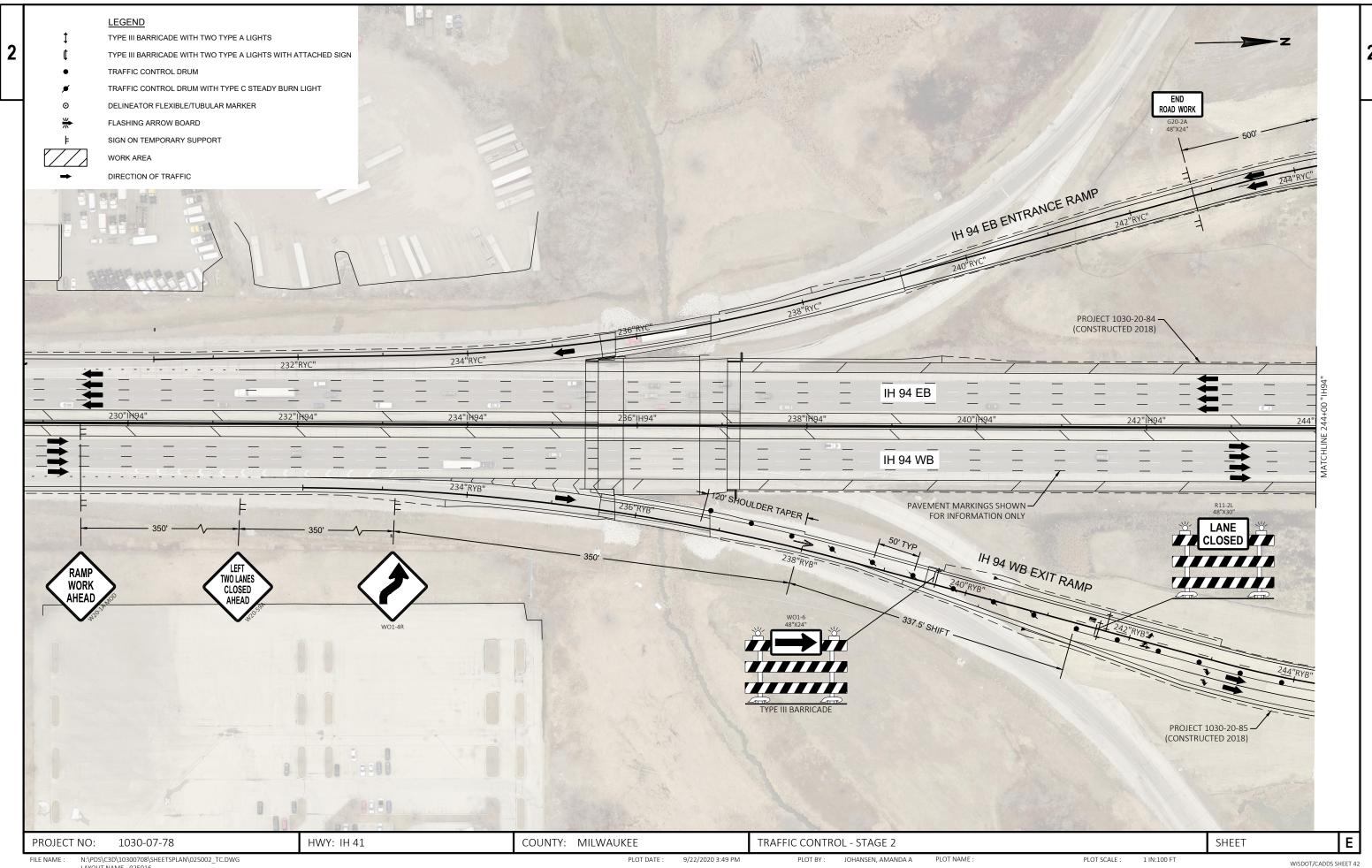


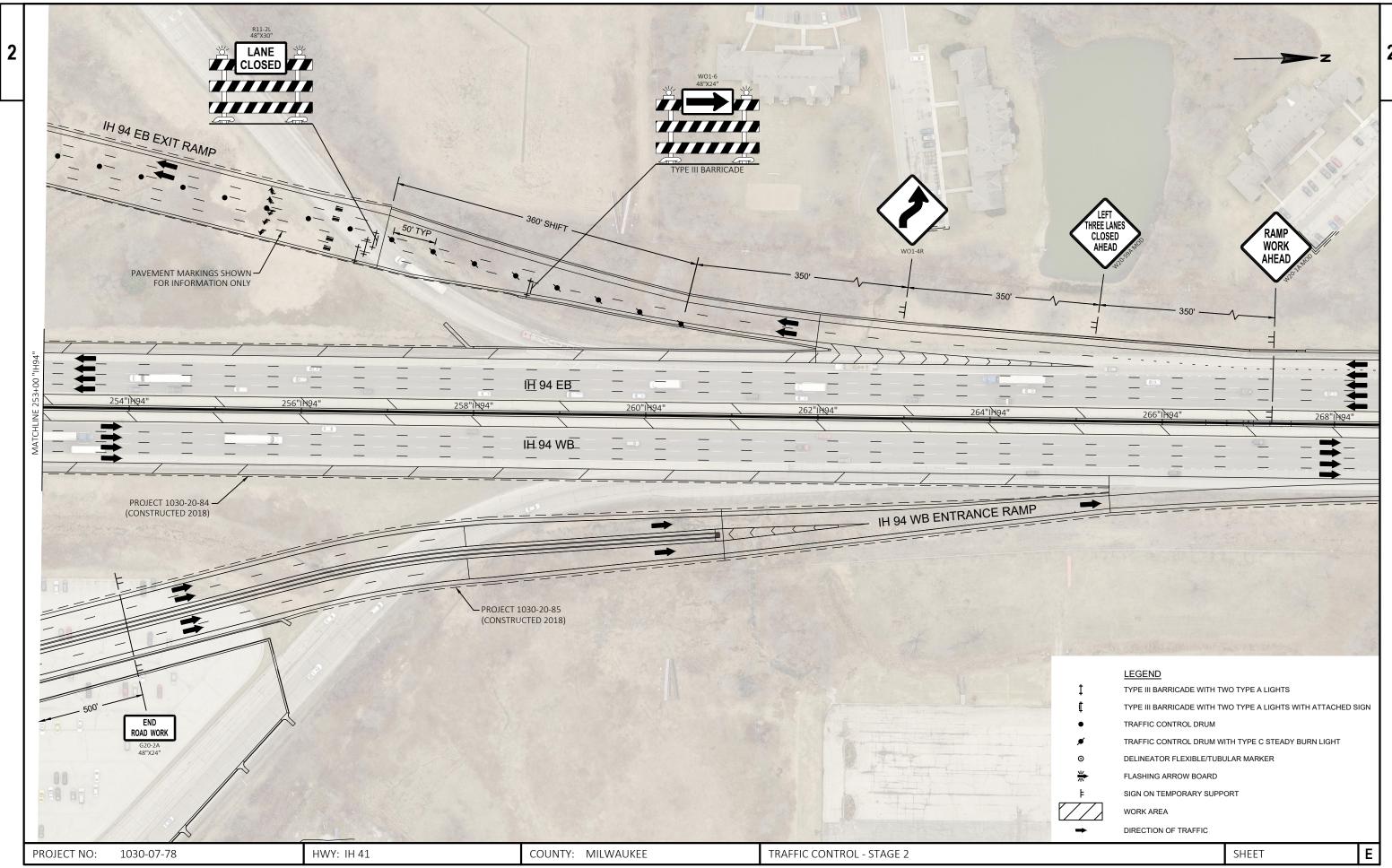
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WISDOT/CADDS SHEET 42

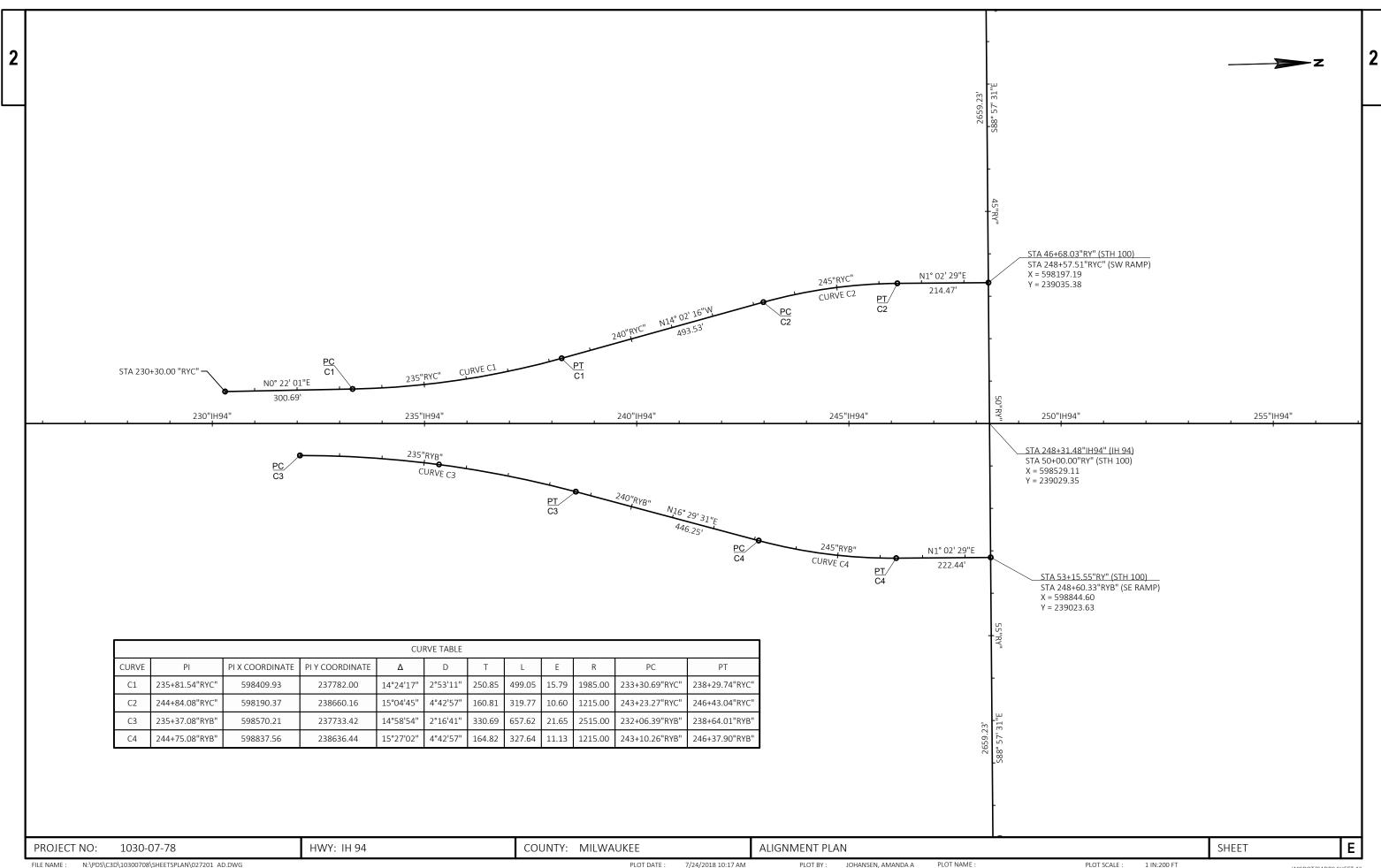


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FILE NAME: N:\PDS\C3D\10300708\SHEETSPLAN\025002\_TC.DWG PLOT DATE: 9/22/2020 8:32 AM PLOT BY: JOHANSEN, AMANDA A PLOT NAME: PLOT NAME: 1 in:100 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 025017



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1030-07-78

					1030-07-70
Line	Item	Item Description	Unit	Total	Qty
0006	213.0100	Finishing Roadway (project) 0002. 1030-07-78	EACH	1.000	1.000
8000	509.0301	Preparation Decks Type 1	SY	8.000	8.000
0010	509.0302	Preparation Decks Type 2	SY	4.000	4.000
0012	509.0310.S	Sawing Pavement Deck Preparation Areas	LF	80.000	80.000
0014	509.5100.S	Polymer Overlay	SY	3,259.000	3,259.000
0018	619.1000	Mobilization	EACH	0.300	0.300
0026	628.7020	Inlet Protection Type D	EACH	15.000	15.000
0028	642.5401	Field Office Type D	EACH	0.300	0.300
0030	643.0300	Traffic Control Drums	DAY	2,508.000	2,508.000
0032	643.0420	Traffic Control Barricades Type III	DAY	253.000	253.000
0034	643.0705	Traffic Control Warning Lights Type A	DAY	505.000	505.000
0036	643.0715	Traffic Control Warning Lights Type C	DAY	445.000	445.000
0038	643.0800	Traffic Control Arrow Boards	DAY	18.000	18.000
0040	643.0900	Traffic Control Signs	DAY	529.000	529.000
0042	643.0920	Traffic Control Covering Signs Type II	EACH	3.000	3.000
0044	643.1050	Traffic Control Signs PCMS	DAY	10.000	10.000
0048	643.5000	Traffic Control	EACH	0.300	0.300
0050	646.1020	Marking Line Epoxy 4-Inch	LF	7,478.000	7,478.000
0052	646.1546.S	Marking Replace Line Contrast Wet Reflective Epoxy 4-		288.000	288.000
		Inch		<del>-</del>	
0054	646.3546.S	Marking Replace Line Contrast Wet Reflective Epoxy 8-	LF	609.000	609.000
		Inch			
0056	646.5020	Marking Arrow Epoxy	EACH	7.000	7.000
0058	646.5120	Marking Word Epoxy	EACH	6.000	6.000
0060	646.6120	Marking Stop Line Epoxy 18-Inch	LF	108.000	108.000
0068	646.9000	Marking Removal Line 4-Inch	LF	1,231.000	1,231.000
0070	646.9100	Marking Removal Line 8-Inch	LF	638.000	638.000
0076	649.0155	Temporary Marking Line Removable Contrast Tape 4-	LF	731.000	731.000
		Inch			
0078	649.0255	Temporary Marking Line Removable Contrast Tape 8-	LF	647.000	647.000
0000	ODV 2005	Inch	0)/	0.000	0.000
0082	SPV.0035	Special 4000. Rapid Set Deck Repair	CY	2.000	2.000
0084	SPV.0060	Special 0001. Traffic Control Close-Open Freeway Entrance Ramp	EACH	3.000	3.000
0094	SPV.0075	Special 0002. Pavement Cleanup Project 1030-07-78	HRS	20.000	20.000
		Special 0002. Pavement Cleanup Project 1030-07-76  Special 0001. Marking Line Contrast Epoxy 4-Inch	LF	150.000	150.000
0096	SPV.0090	Special 0001. Marking Line Contrast Epoxy 4-Inch	LF		
0098	SPV.0090	Special 0002. Marking Line Contrast Epoxy 8-Inch	LF	1,485.000	1,485.000

# PAVEMENT MARKINGS

				646. MARKIN EPOXY		646.1546.S  MARKING REPLACE LINE CONTRAST WET REFLECTIVE EPOXY 4-INCH 12.5 FT LINE 37.5 SKIP	646.3546.S  MARKING REPLACE LINE CONTRAST WET REFLECTIVE EPOXY 8-INCH	646. MARKING EPO		646.5120 MARKING WORDS EPOXY	646.6120 MARKING STOP LINE EPOXY 18-INCH	646.9000 MARKING REMOVAL LINE	646.9100 MARKING REMOVAL LINE	SPV.0090.0001  MARKING LINE  CONTRAST EPOXY  4-INCH  12.5 FT LINE 37.5 SKIP	SPV.0090.0002 MARKING LINE CONTRAST EPOXY 8-INCH
				YELLOW	WHITE	DASHED WHITE	WHITE	TYPE 2	TYPE 3	WHITE	WHITE	4-INCH	8-INCH	DASHED WHITE	WHITE
CATEGORY	LOCATION	STATION	TO STATION	LF	LF	LF	LF	EACH	EACH	EACH	LF	LF	LF	LF	LF
1000	RYAN ROAD	47+10	52+85 LT	424	498	150	248	2	1	2	48	426	176	75	176
	RYAN ROAD	47+10	52+85 RT	424	532	138	361	4		4	60	426	351	75	351
	IH 94 EB ON RAMP	231+30	247+75	1148	1661	_	<u></u>			_	_	178	50		494
	IH 94 WB OFF RAMP	231+55	247+73	1152	1639	-				-		201	61	-	464
	SUBTOTAL			3148	4330	288	609	6	1	6	108	1231	638	150	1485
	TOTAL:			7,4	78	288	609		7	6	108	1231	638	150	1,485

### **EROSION CONTROL**

628.7020 INLET PROTECTION

				TYPE D
CATEGORY	LOCATION	STATION	LOCATION	EACH
1000	RYAN ROAD	47+13.04	67' RT	1
		47+19.04	67' RT	1
		47+21.03	67' LT	1
		47+31.03	67' LT	1
		47+62.50	11.05' LT	1
		47+63.03	3.05' LT	1
		51+93.15	2.95' LT	1
		51+95.30	12.52' LT	1
		52+40.35	67.0' LT	1
		52+78.48	67.0' RT	1
		52+71.53	67' LT	1
		52+86.52	67' RT	1
		UNDISTRIB	JTED	3
		TOTAL:		15

# **MOBILIZATION**

 CATEGORY
 PROJECT
 619.1000 MOBILIZATION EACH

 1000
 1030-07-78
 0.3

 TOTAL:
 0.3

PROJECT NO: 1030-07-78 HWY: IH 94 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: **E** 

# 3

#### TRAFFIC CONTROL

				643.	0300	643. TRA	0420 FFIC	TRA	.0705 AFFIC ITROL	TRA	0715 FFIC TROL	643.	0800	643.0	0900	649.0155	649.0255	SPV.0060.0001
				TRA	FFIC	CON			RNING		RNING	TRA	FFIC	TRAI	FFIC	TEMPORARY	MARKING LINE	TRAFFIC CONTROL
				CON	TROL		CADES	LIG	HTS	LIG	HTS	CON	TROL	CON		REMOVEABLE	CONTRAST TAPE	CLOSE-OPEN FREEWAY
			*	DRI	JMS	TYF	E III	TYF	PE A	TYF	PEC	ARROW	BOARDS	SIG	SNS	4-INCH	8-INCH	ENTRANCE RAMP
CATEGORY	STAGE	LOCATION	DAYS	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	LF	LF	EACH
1000	1	STH 100 (RYAN ROAD)	2	526	1052	30	60	60	120	100	200	4	8	65	130	631		_
1000	1	IH 94 EB EXIT RAMP	2	23	46	6	12	12	24	8	16			8	16			 
	1	IH 94 WB ENTRANCE RAMP	2			2	12	12	8					2	4	_		
	1	IH 94 EB ENTRANCE RAMP	2			2	4	4	8					2	4			
	1	IH 94 WB EXIT RAMP	2	24	48	5	10	10	20	6	12	_	-	8	16	-		
	2	STH 100 (RYAN ROAD)	2	252	504	26	52	52	104	44	88	3	6	49	98	100	647	
	2	IH 94 EB EXIT RAMP	2	23	46	6	12	12	24	8	16	_		8	16			
	2	IH 94 WB ENTRANCE RAMP	2		-	2	4	4	8	-				3	6			
	2	IH 94 EB ENTRANCE RAMP	2		-	2	4	4	8	-				3	6			
	2	IH 94 WB EXIT RAMP	2	23	46	5	10	10	20	6	12	-		8	16			
		IH 94 EB ENT. RAMP CLOSURE	3	40	120	6	18	12	36	4	12			26	78			3
		IH 94 WB EXIT RAMP CLOSURE	3	48	144	4	12	8	24	-		-		11	33			
		UNDISTRIBUTED			502		51		101		89		4		106			
		TOTAL:			2508		253		505		445		18		529	731	647	3

\* FOR INFORMATION ONLY

# TRAFFIC CONTROL

H 94 WB EXIT RAMP CLOSURE 3 1 3

#### TRAFFIC CONTROL

CATEGORY LOCATION BAY EACH

1000 PROJECT 10 643.5000
TRAFFIC
CONTROL
SIGNS PCMS CONTROL
DAY EACH
100 0.3

PROJECT NO: 1030-07-78 HWY: IH 94 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: **E** 

CATEGORY

TOTAL:

1000

# Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-08B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C31-03C	PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-05A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D22-04	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D23-06A	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D23-06B	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D40-01	TRAFFIC CONTROL, LANE SHIFT, MULTILANE DIVIDED OR ONE WAY ROAD





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

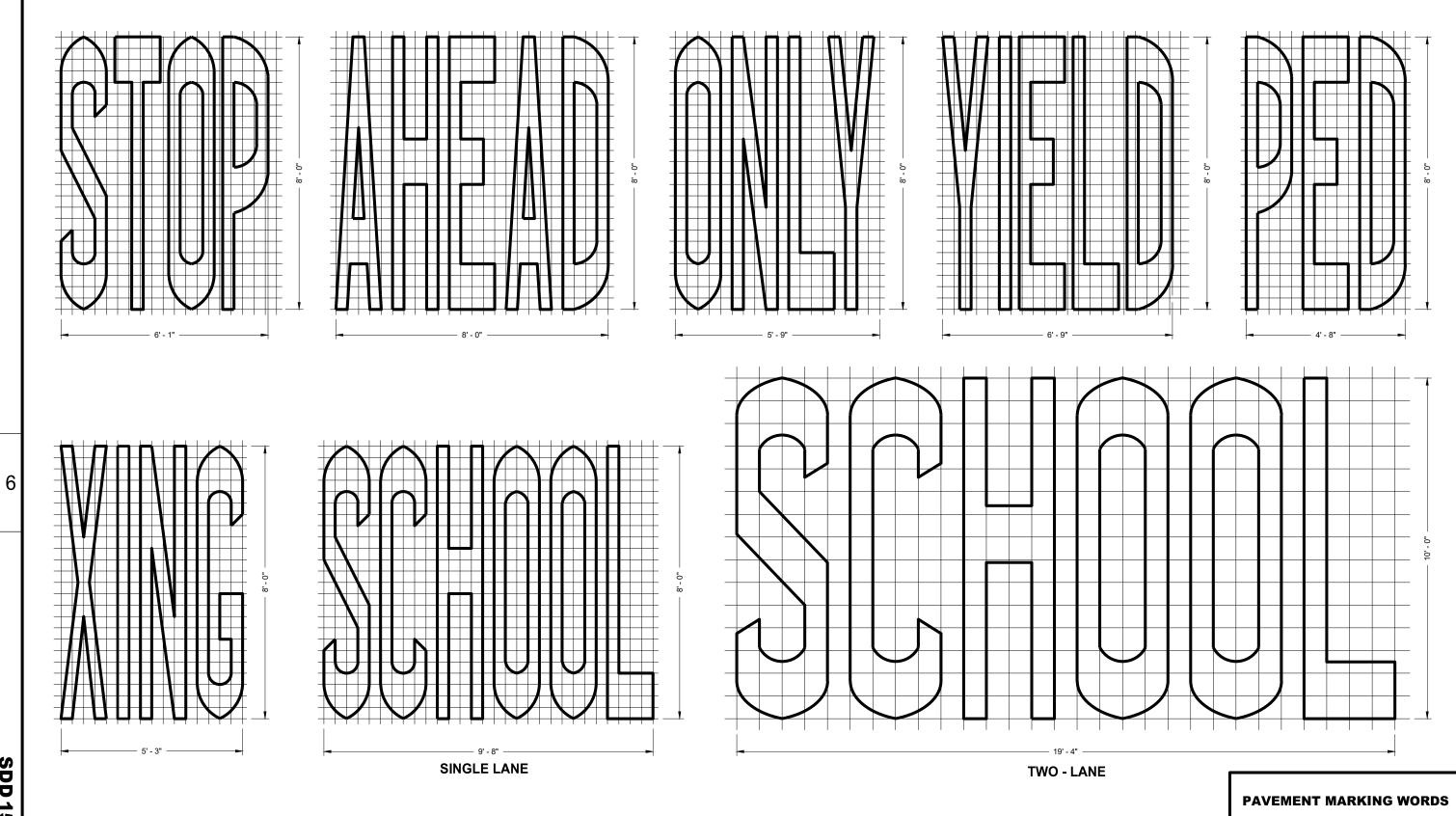
10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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**SDD 15C07** 15b

# **GENERAL NOTES**

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.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

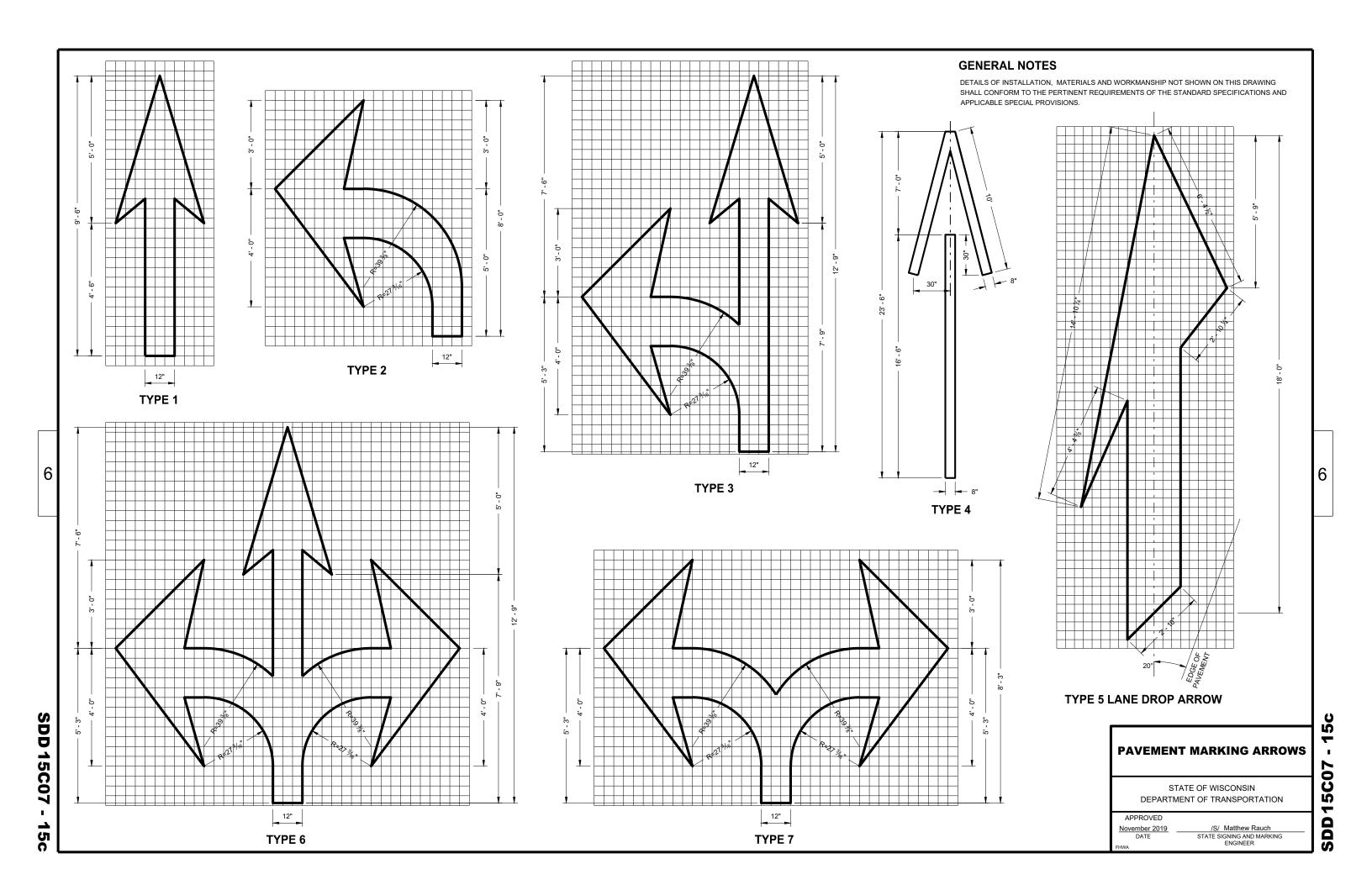
November 2019 \_\_\_\_

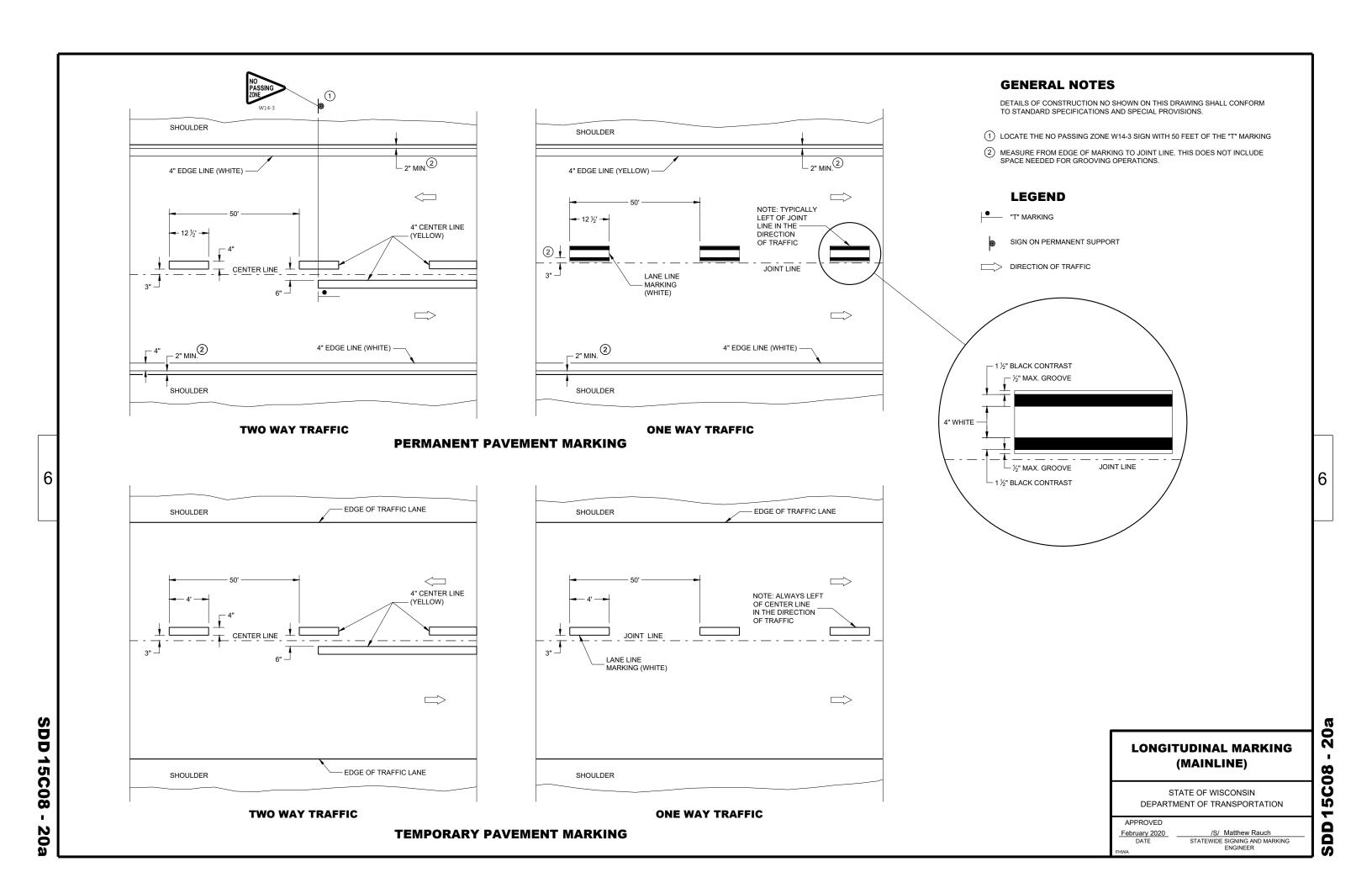
/S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

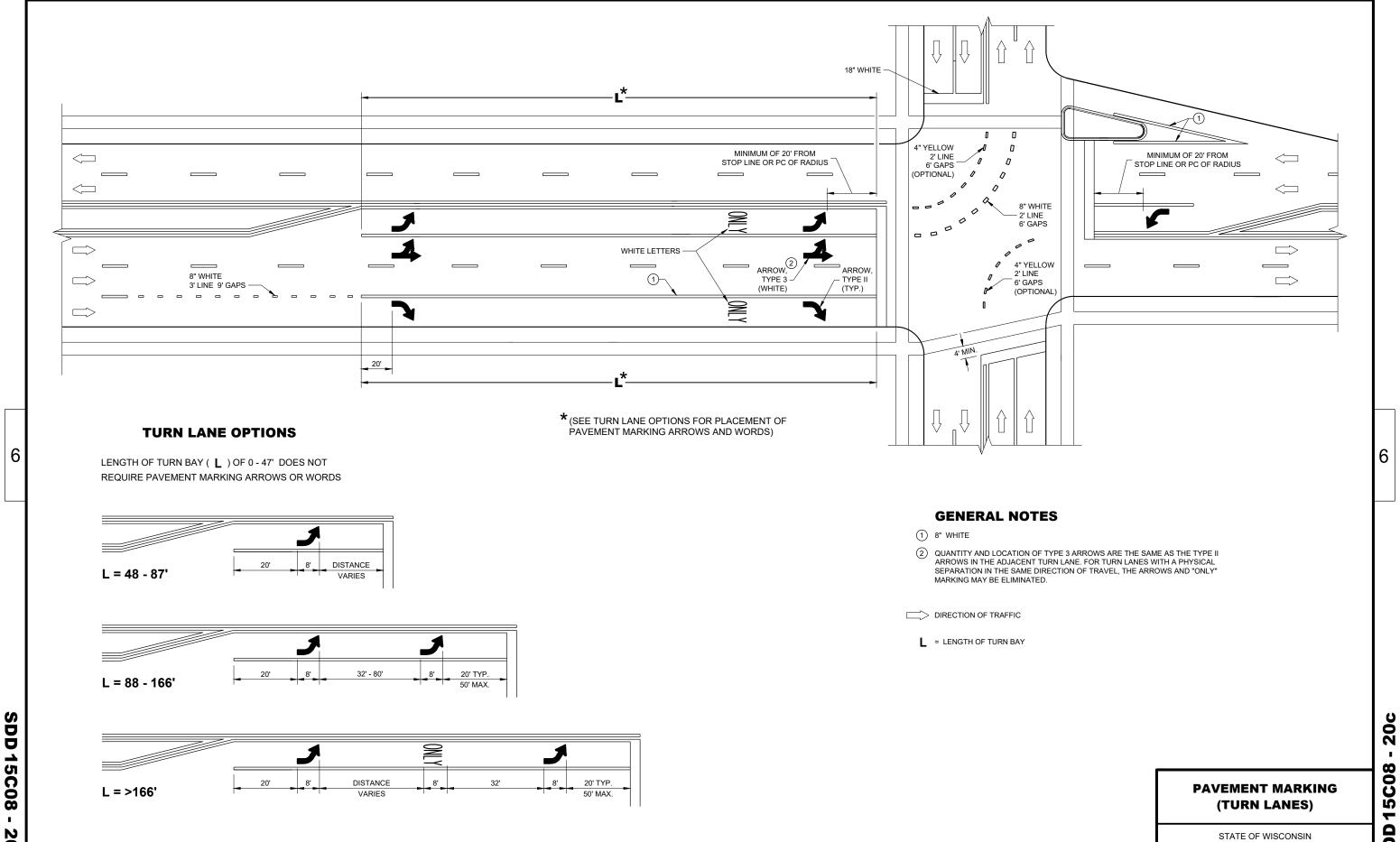
6

**5**b

**SDD15C07** 





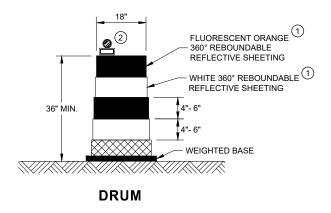


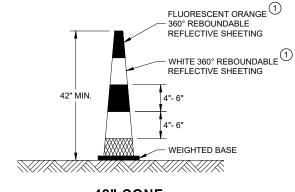
**SDD 15C08** 

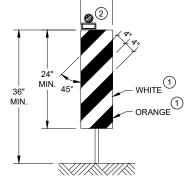
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES** 

- (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.



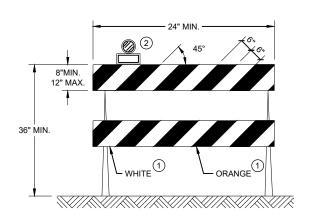




#### **42" CONE** DO NOT USE IN TAPERS ½ SPACING OF DRUMS

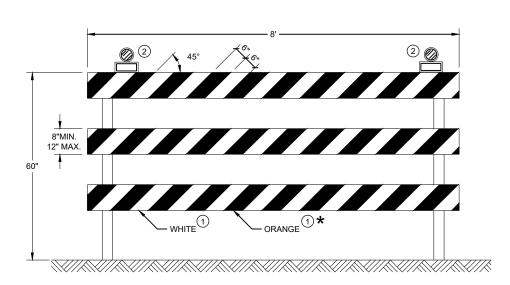
# **VERTICAL PANEL**

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.

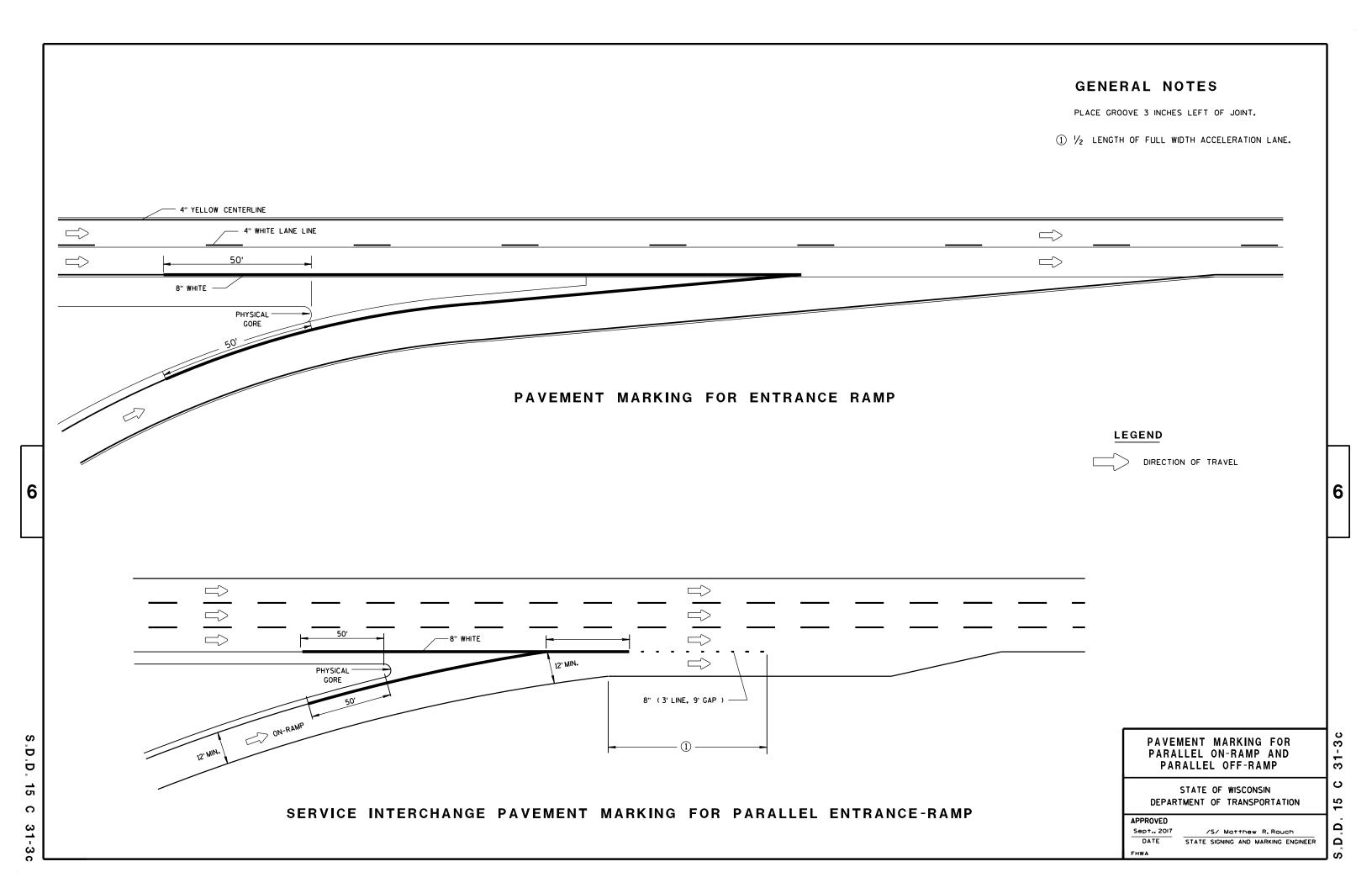
## **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS**

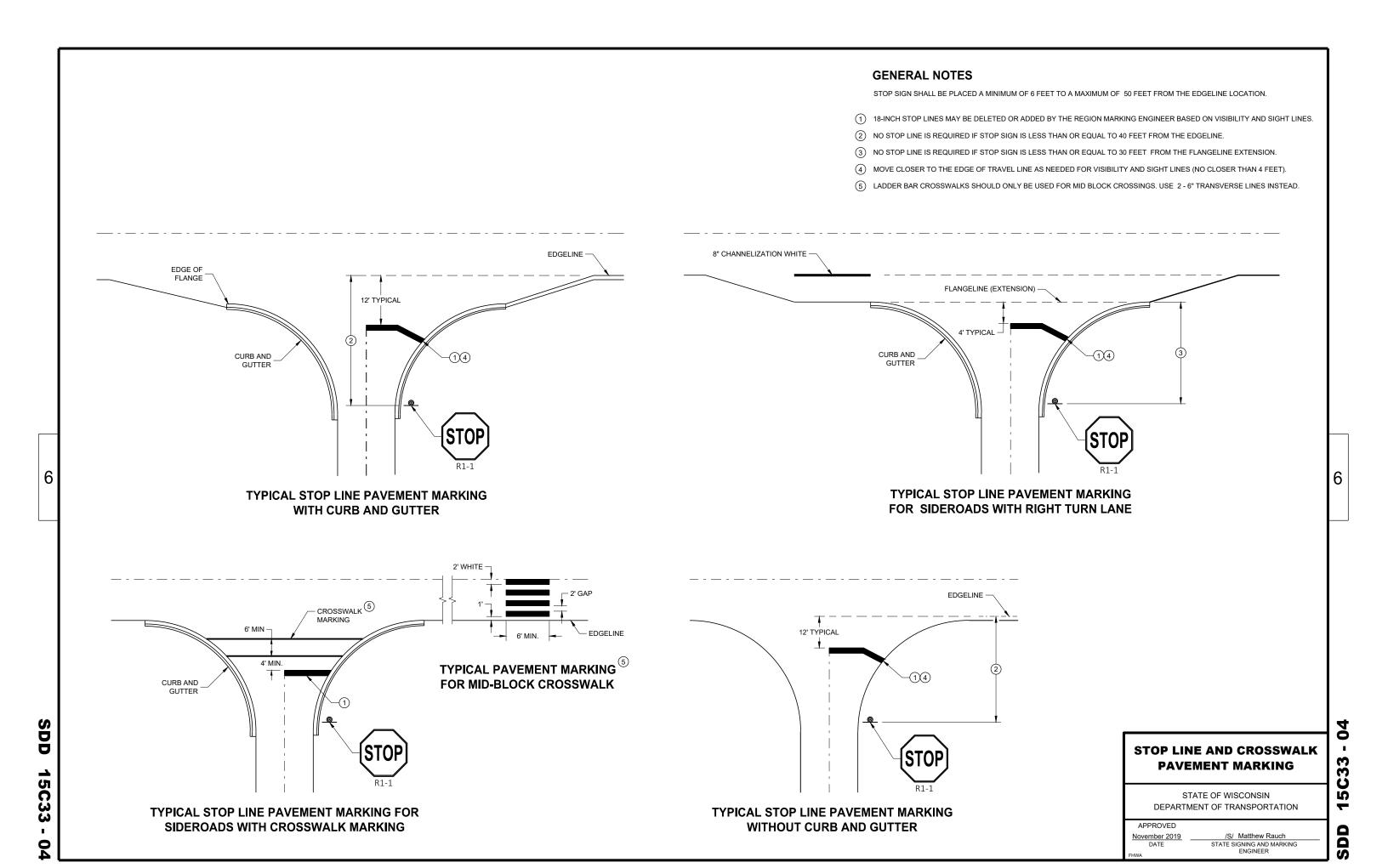
08

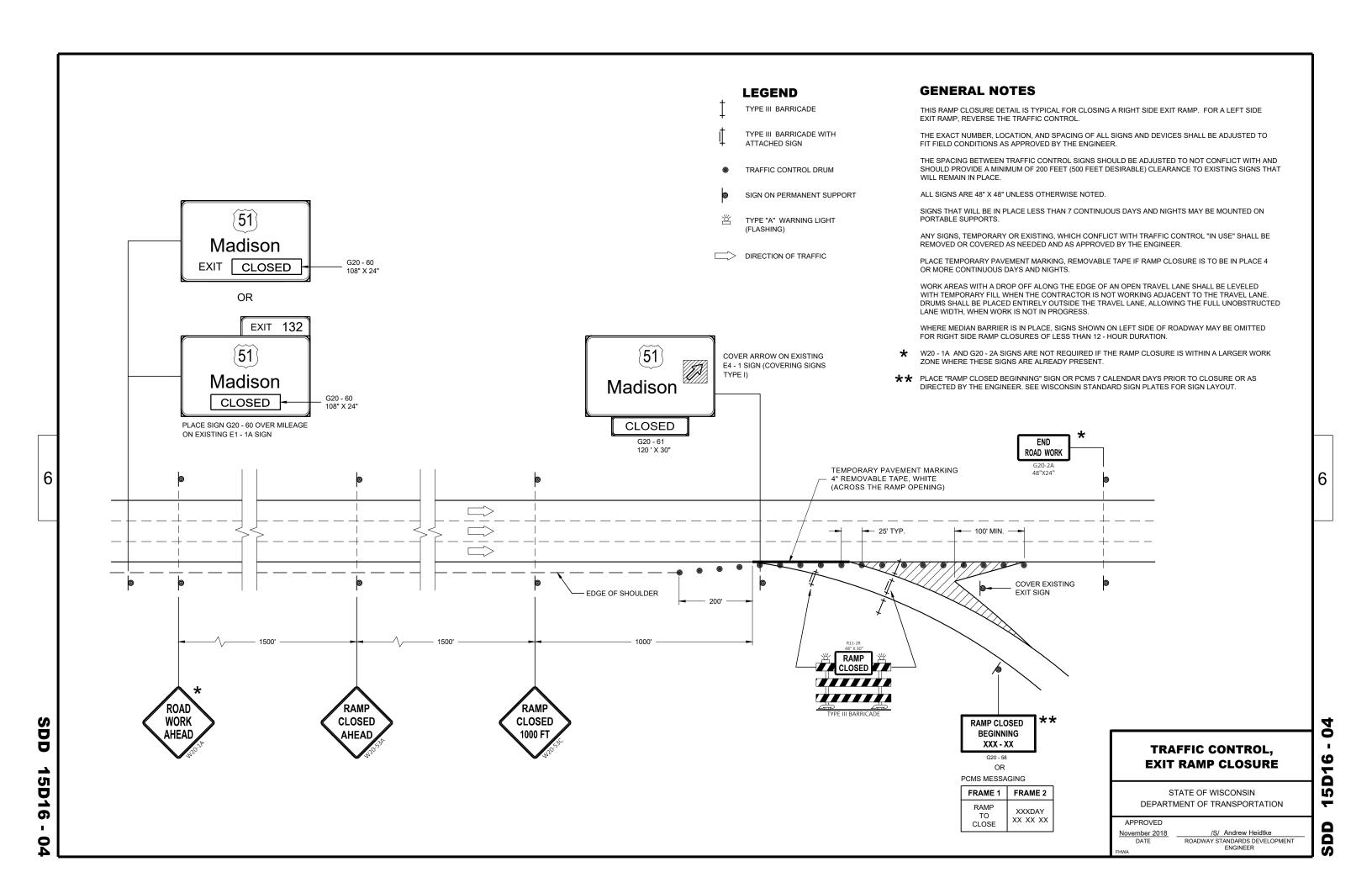
**SDD 15C** 

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
November 2020	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER







SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

▼ TRAFFIC CONTROL DRUM WITH
TYPE "C" STEADY BURN LIGHT

TYPE III BARRICADE
WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

FLASHING ARROW BOARD

DIRECTION OF TRAFFIC

CXX REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)

WORK AREA

**GENERAL NOTES** 

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" 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 TEMPORARY SUPPORTS.

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 TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

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.

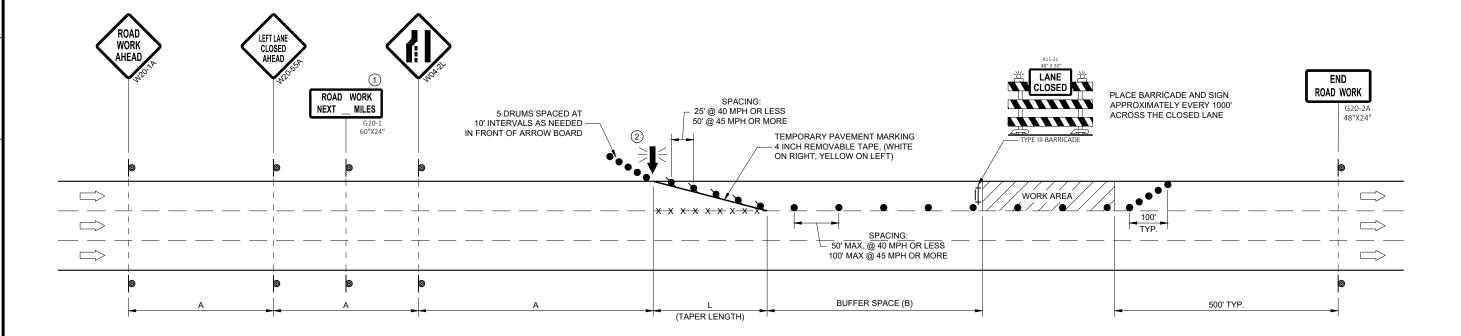
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

BARRICADES IN A CLOSED LANE 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.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

- (1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- (2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT ADVANCE TAPER LENGTH | BUFFER PRIOR TO WORK WARNING SIGN (12 FT. LANE) SPACE STARTING (MPH) SPACING (A) FEET (L) FEET (B) FEET 25 200' 125' 55' 30 200' 180' 85' 35 350' 245' 120' 40 170' 350 320' 45 500' 540' 220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2020

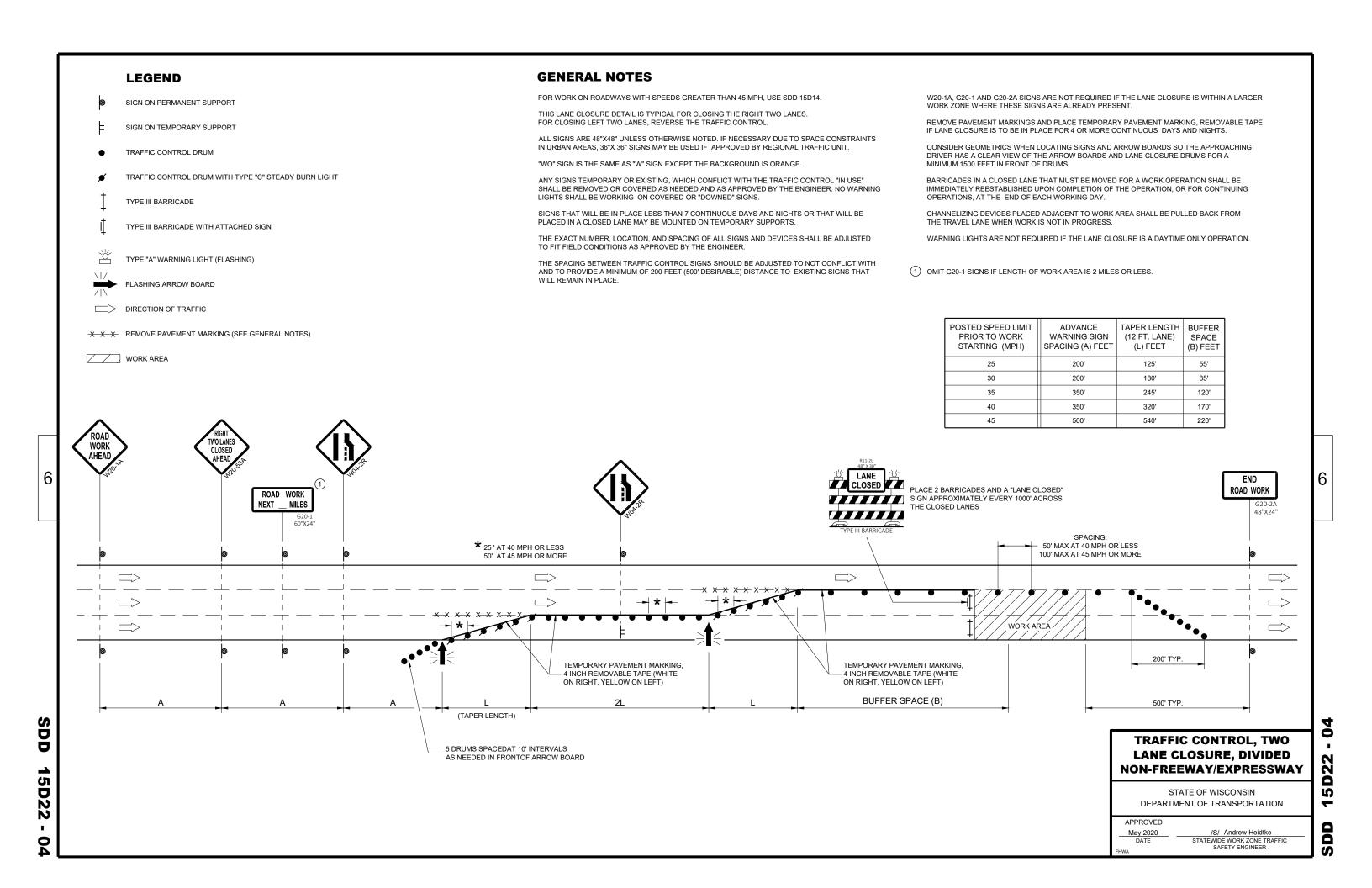
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

SDD 15D20 -

DD 15D20

0



FOR RIGHT TWO LANES CLOSED AT

**INTERSECTION (WITH RIGHT TURN BAY OPEN)** 

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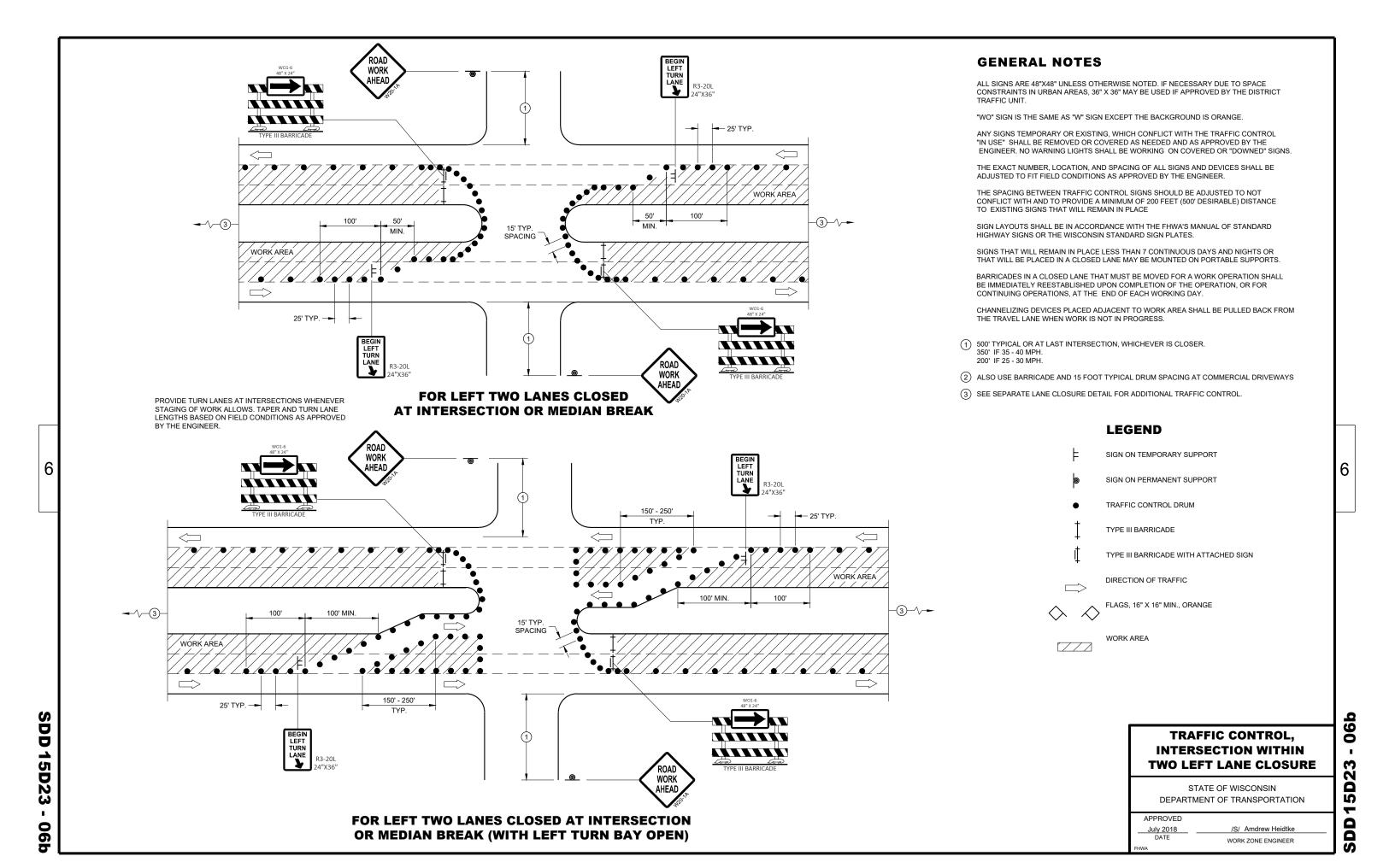
2

**5**D

SD

TWO RIGHT LANE CLOSURE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION





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 REQUIREM	MENTS	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

-11

D 15 D  $\infty$ 

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6

- 11/2" DIAMETER HOLES

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017 DATE

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

✓ TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT.

(A) TYPE "A" WARNING LIGHT (FLASHING)

□ DIRECTION OF TRAFFIC

WORK AREA

\* \* \* \* (SEE GENERAL NOTES)

### **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 DESIREABLE) DISTANCE TO EXISTING SIGNS.

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

ALL SIGNS ARE 48"×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 AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

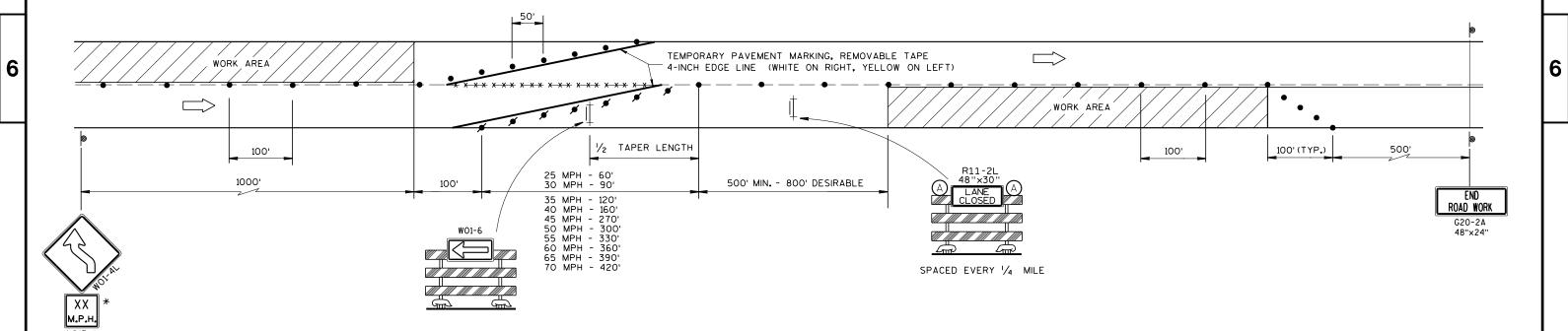
FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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

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

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST 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 1/2 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.



\* USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED

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LANE SHIFT MULTI-LANE DIVIDED OR ONE WAY ROAD

TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE WAY ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

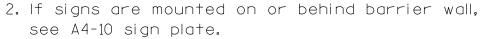
APPROVED
March 2018

DATE

FHWΔ

/S/ Andrew Heidtke WORK ZONE ENGINEER

Ω



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" ( $\pm$ ). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" ( $\pm$ ).

- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is  $5'-3''(\frac{+}{2})$ .
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directd by the Engineer.

2' Min - 4' Max (See Note 6)

\*\* Curb Flowline

D
White Edgeline Location

\*

6'-3"(±)

D |

Outside Edge

of Gravel

White Edgeline
Location

Outside Edge
of Gravel

d.

POST EMBEDMENT DEPTH

Area of Sign
Installation
( Sq.Ft.)
( Min )
20 or Less
4'
Greater than 20
5'

The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

\* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

Matther & Rawk For State Traffic Engineer

DATE 5/13/2020 PLATE NO. \_A4-3.22

SHEET NO:

Ε

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A43.dgn

PROJECT NO:

PLOT DATE: 13-MAY 2020 1:04

COUNTY:

PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$WISDOT/CADDS SHEET 42

APPROVED



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



# ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

# GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4''-3'' (±).
- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- \*\* See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

# POST EMBEDMENT DEPTH

D
(Min)
4'
5'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRE)		
	L	E	
***	Greater than 48" Less than 60"	12"	
	60" to 108"	L/5	

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

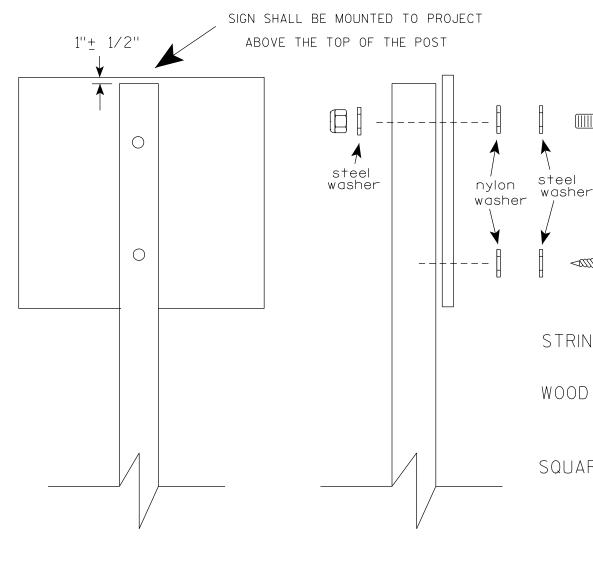
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



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.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS -  $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS  $(4" \times 6")$ 

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS -  $\frac{1}{32}$  " (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  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ " STEEL 1-1/4" O.D. X  $\frac{3}{8}$ " I.D. X .080 NYLON

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, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

For State Traffic Engineer

SHEET NO:

DATE <u>4/1/202</u>0

PLATE NO. <u>44-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A48.DGN



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

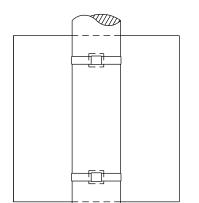
DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

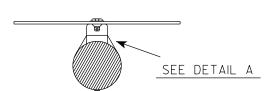
For State Traffic Engineer

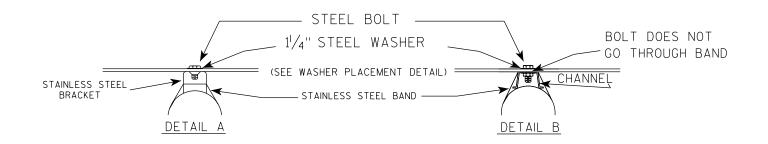


# BANDING

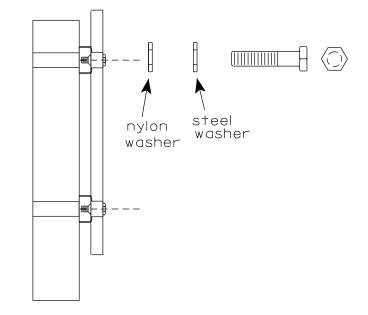


SINGLE SIGN





# WASHER PLACEMENT



HWY:

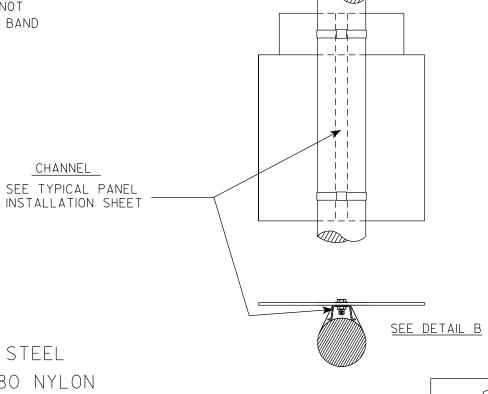
WASHERS (ALL POSTS) -

1-1/4" O.D. X<sup>3</sup>/<sub>8</sub>" I.D. X<sup>1</sup>/<sub>16</sub>" STEEL 1-1/4" O.D.  $\times \frac{3}{8}$ " I.D.  $\times$  .080 NYLON FOR ALL TYPE H SIGNS

### GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be  $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

# "J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

State Traffic Engineer

Ε

APPROVED

DATE 6/10/19 PLATE NO. A5-9.4

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

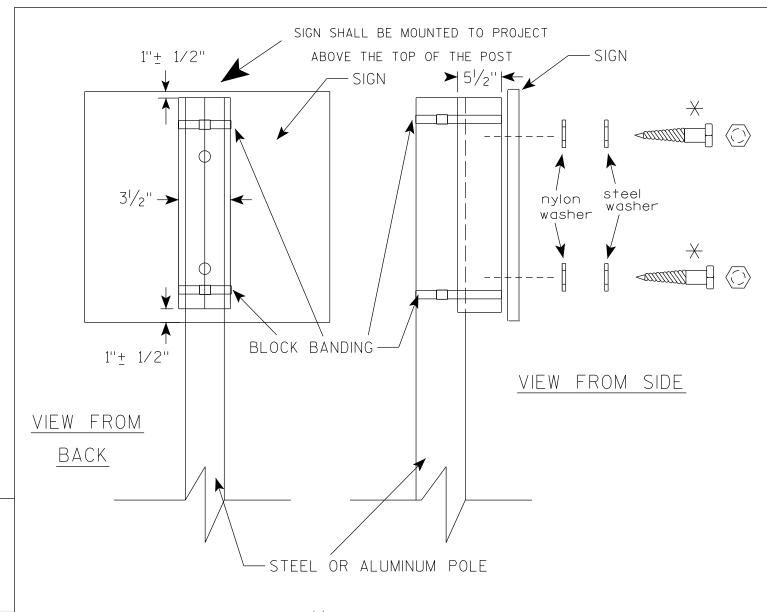
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

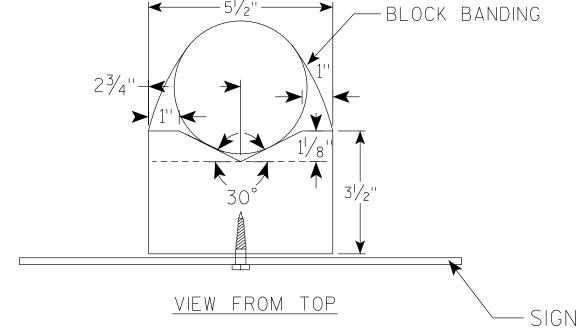
FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A59.dgn

PROJECT NO:

PLOT BY: mscj9h

CHANNEL





# GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL,  $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

  SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
  - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE  $1\frac{1}{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 $\rightarrow$  LAG BOLTS SHALL BE  $\frac{3}{8}$ " X  $2\frac{1}{2}$ "

BLOCK BANDING DETAIL ( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

| APPROVED

For State Traffic Engineer

SHEET NO:

Matthew R

DATE 6/10/19

PLATE NO. \_A5-10.2

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr\_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

PLOT BY: mscj9h

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

2. Color:

Background - Orange Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Metric equivalent for this sign is:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED 400 110 00 00 110

for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\G202A.DGN

HWY:

PROJECT NO:

PLOT DATE: 30-SEP-2009 09:31

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

5.561773:1.000000 WISDOT/CADDS SHEET 42







MP3-1









HWY:



# NOTES

- 1. All Signs Type II Type H
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

5. M3-1 thru M3-4 Background - White Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 **SERIES** 

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15 PLATE NO. M3-1.14

Ε

SHEET NO:

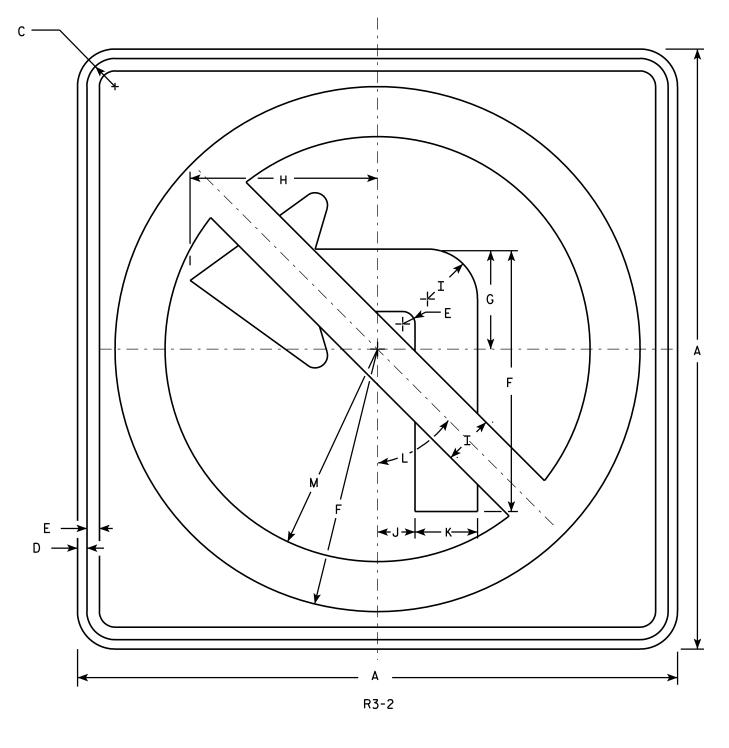
FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

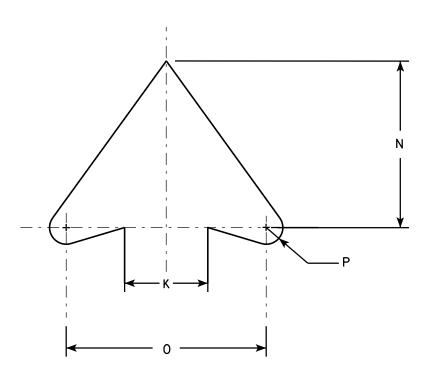
PLOT SCALE . 11 675051.1 000000



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

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	₩	X	Y	Z	Area sq. ft.
1	24		1 1/8	3⁄8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
25	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	9	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 %	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

COUNTY:

STANDARD SIGN R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{\it or}$  State Traffic Engineer

DATE 12/08/10

PLATE NO. R3-2.10

SHEET NO:

HWY:

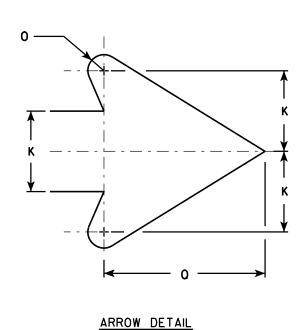
PROJECT NO:

PLOT NAME :

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

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



c	<del>* *</del>
	G   V   A   I   I   I   I   I   I   I   I   I

l																											
SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	M	N	0	P	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
25	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 %	5⁄8	3/4		7 1/8	19 1/8	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 5/8										9.0
3	36		1 %	5/8	3/4		7 1/8	19 1/8	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 %										9.0
4	36		1 %	5/8	3/4		7 1/8	19 %	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 %										9.0
5	36		1 %	5/8	3/4		7 1/8	19 1/8	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 %										9.0

COUNTY:

R3-4

STANDARD SIGN R3-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{\it or}$  State Traffic Engineer PLATE NO. \_\_R3-4.11

DATE12/08/10 SHEET NO:

PLOT NAME :

PLOT BY: dotsja

PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R34.DGN

HWY:

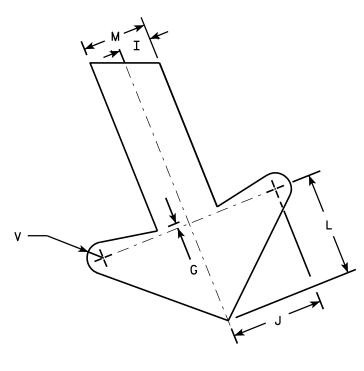
PROJECT NO:

PLOT DATE: 08-DEC-2010 15:34

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

Background - White Message - Black

- 3. Message Series E
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL
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SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Areg sq. ft.
1																									1		
25	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 %	3	2 1/4	10 %	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

COUNTY:

R3-20L

HWY:

М

М

0

STANDARD SIGN R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7 SHEET NO:

PLOT BY: dotsja

PLOT NAME :

PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R320L.DGN

PROJECT NO:

PLOT DATE: 15-OCT-2010 14:45

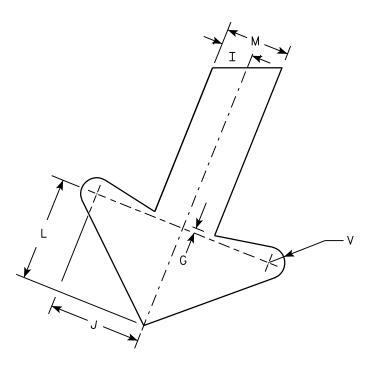
R3-20R

HWY:

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

Background - White Message - Black

- 3. Message Series E
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



AINIVON DETAIL	Α	RROW	DET	AIL
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SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
25	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 %	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 %	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 %	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 1/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

COUNTY:

STANDARD SIGN R3-20R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
Forstate Traffic Engineer

SHEET NO:

DATE 10/18/10

PLATE NO. <u>R3-20R.</u>6

М

Ν

PLOT DATE: 15-OCT-2010 14:59 PLOT BY: do+sja

PLOT NAME :

PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R320R.DGN

PROJECT NO:



# <u>NOTES</u>

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

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Modify the message as required.





R	1	1	-	2	L

PLOT NAME :

SIZ	Έ	A	В	С	D	Ε	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																												
2	S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
21	<b>I</b>	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 ½	19	14	15	13													10.0
3		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 ½	19	14	15	13													10.0

COUNTY:

STANDARD SIGN R11-2

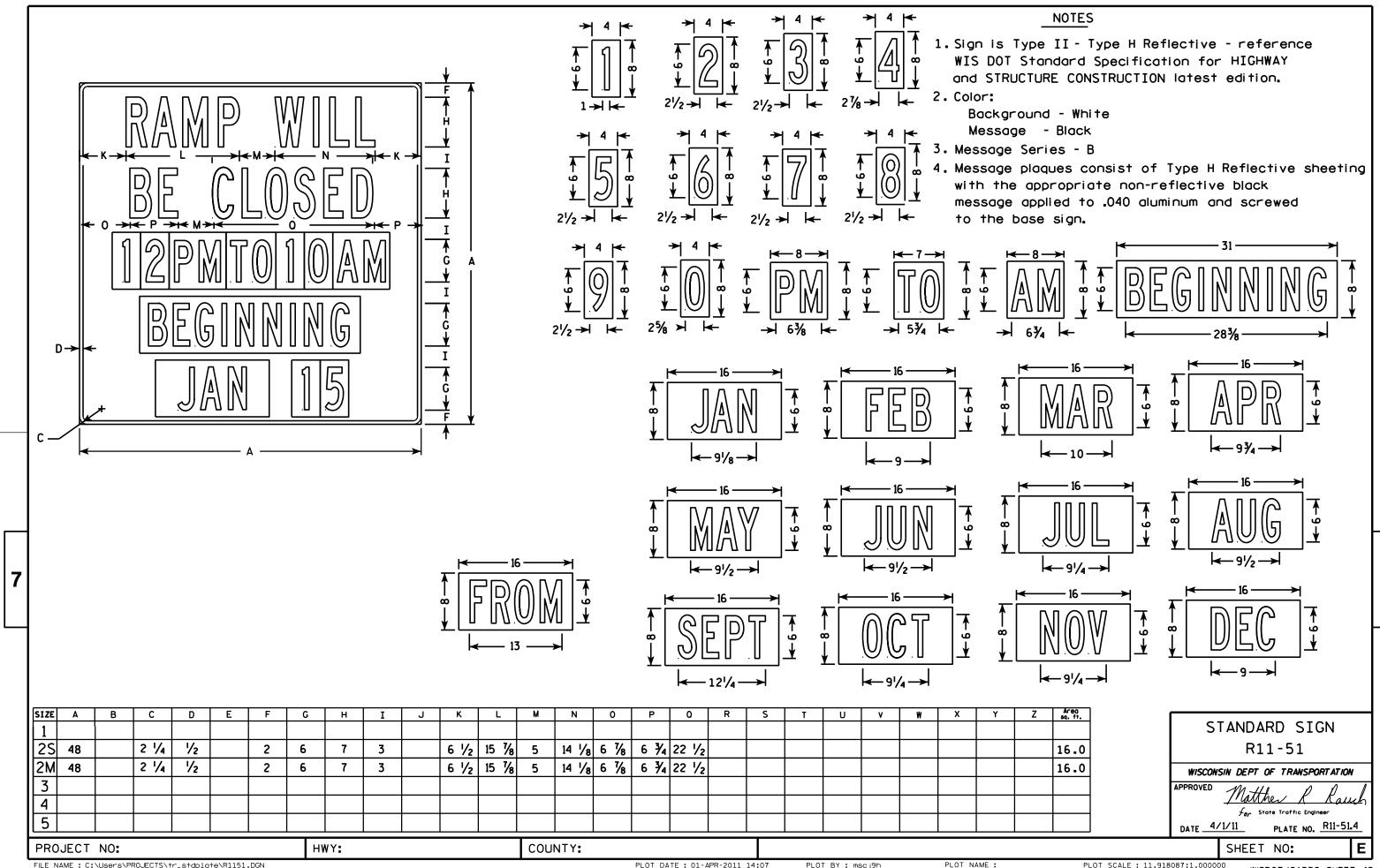
WISCONSIN DEPT OF TRANSPORTATION

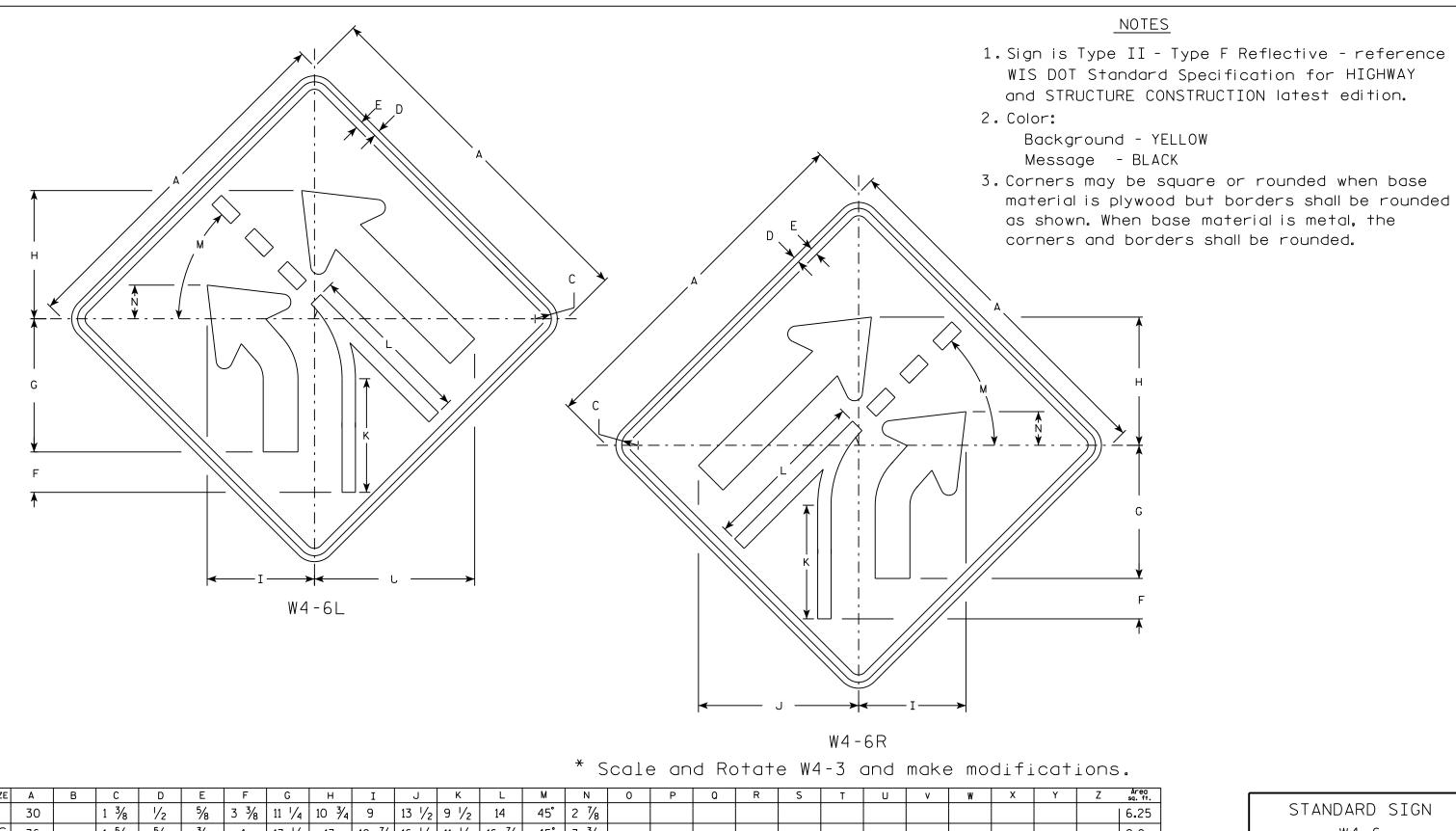
DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

HWY:

PROJECT NO:





SIZE A 1 % 13 1/2 13 10  $\frac{7}{8}$  16  $\frac{7}{4}$  11  $\frac{7}{2}$  16  $\frac{7}{8}$ 45° 3 3/8 9.0 36 13 1/2 13 | 10 \( \frac{7}{8} \) 16 \( \frac{7}{4} \) 11 \( \frac{7}{2} \) 16 \( \frac{7}{8} \) 45° | 3 ¾ 36 1 % 9.0 5 3/8 17 1/4 14 1/2 21 5/8 15 1/4 22 1/2 4 1/2 48 2 1/4 | 45° 16.0 5 3/8 17 1/4 14 1/2 21 5/8 15 1/4 22 1/2 2 1/4 | 18 45° | 4 1/2 48 16.0

W4 - 6

WISCONSIN DEPT OF TRANSPORTATION

DATE <u>2/9/16</u> PLATE NO. <u>W4-6.4</u>

FILE NAME . C.\CAFfiles\Projects\tr stdolote\W46 DCN

PROJECT NO:

PLOT DATE . 09-FFR-2016 10:16

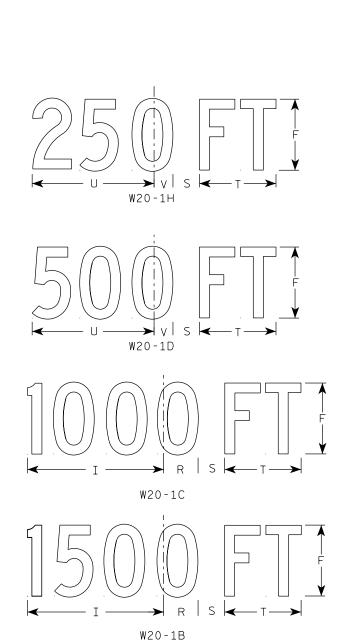
PINT RY \* \$\$ plotuser \$\$

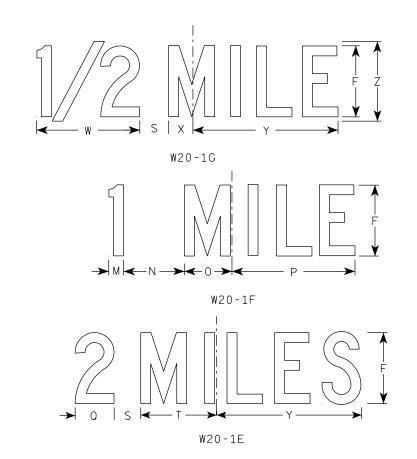
SHEET NO:

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background – Orange Message – Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.





SIZE	А	В	С	D	E	F	G	H I	J	K	_ M	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4 10 1/8	7	7 % 8	7/8 1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 %	9	1 3/8	8	1 3/4	10 3/4	6	9.0
25	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rauch

 $f_{or}$  State Traffic Engineer DATE 3/25/2020 PLATE NO. W20-1.11

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W201.DGN

PROJECT NO:

W20-1A

PLOT DATE: 25-MARCH-2020

PLOT BY : dotc4c

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series See Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. " \_\_\_\_\_ LANE" is Series B. All other copy is Series C.

W20-5D

W20-5B

W20-5G

PLOT BY: mscj9h

->IOI← R-		
	W20-5F	

								W20-	5 A																	11 2	20-56
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	v	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	<b>7/8</b>	2 1/2	13 1/8	10 ¾	9 1/2	14 1/4	13 %	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 %	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 1/8	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 5/8	7 1/2	13 1/2	3 %	2 3/8	10 %	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 %	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 5/8	12	2 %	7 1/2	13 1/2	3 ¾	2 3/8	10 %	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 <del>%</del>	2 3/8	10 %	16.0

COUNTY:

STANDARD SIGN W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Kauch Fer State Traffic Engineer DATE 3/18/11 PLATE NO. W20-5.11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W205.DGN

PROJECT NO:

HWY:

W20-56A

W20-55A

PLOT DATE: 18-MAR-2011 12:15

PLOT NAME :

PLOT SCALE: 11.918087:1.000000

W20-53F

PLOT BY: mscj9h

### NOTES

- Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Areo sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 ½	1 1/8	4	9 1/4	9 1/4	12 1/2	11	9	6	10 1/8	2 1/2	1 1/8	5 %	8	1 3/8	4 1/2	3 ½	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3 3/8	2 %	7 1/2	10 %	1 1/8	6	4 5%	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3 3/8	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3 3/8	2 %	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0

COUNTY:

W20-53A

HWY:

STANDARD SIGN W20-53A,B,C,D,F,G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

DATE 5/27/15 PLATE NO. W20-53.1

SHEET NO:

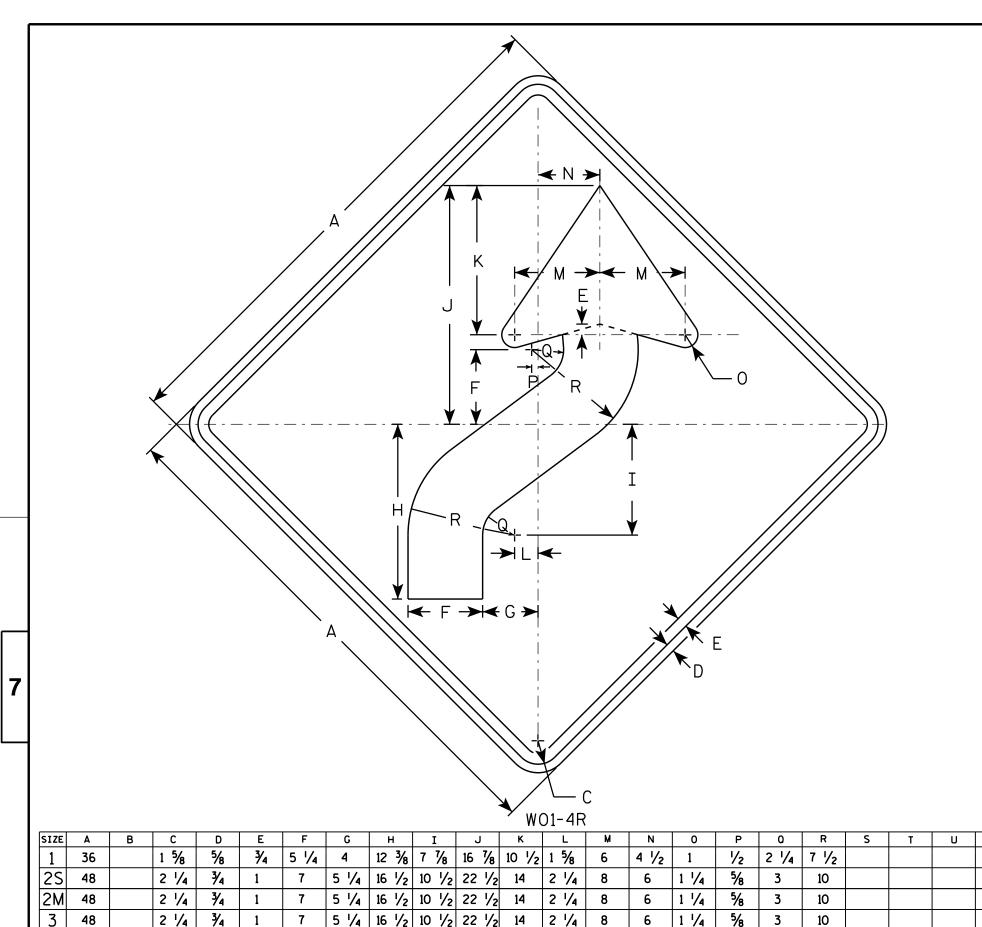
FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W2053.DGN

PROJECT NO:

PLOT DATE: 27-MAY-2015 19:40

PLOT NAME :

PLOT SCALE : 9.729210:1.000000



5 1/4 16 1/2 10 1/2 22 1/2 14

5 1/4 16 1/2 10 1/2 22 1/2 14

HWY:

2 1/4

2 1/4

# **NOTES**

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

9.0 16.0 16.0 16.0 16.0 STANDARD SIGN W01-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

DATE <u>11/18/1</u>3

PLATE NO. WO1-4.1
SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W014.DGN

48

48

PROJECT NO:

2 1/4 3/4

2 1/4 | 3/4

PLOT DATE : 28-FEB-2014 11:35

10

1 1/4

1 1/4

COUNTY:

5/8

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 6.755110:1.000000

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

	G
	<b>¥</b> B
W01-6	

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5

COUNTY:

STANDARD SIGN WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

For State Traffic Engineer

13 PLATE NO. <u>W01-6.1</u>

DATE <u>11/18/13</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W016.DGN

HWY:

PROJECT NO:

PLOT DATE : 28-FEB-2014 11:37

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 5.837526:1.000000

W04-1R

HWY:

# NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

15 ¾ 13 ¼ 10 ¼ 5 ¼ 6 ¾ 45° 3 ¾ 10 % 11 ¾ 1 5/8 3/4 14 2 3/4 36 9.0 18 3/4 3 5/8 20 1/2 17 1/2 14 3/8 7 8 3/8 45° 4 3/4 14 1/4 15 1/4 1 1/4 2 1/4 16.0 48 4 3/4 14 1/4 15 1/4 1 1/4 2M 2 1/4 3/4 18 3/4 3 5/8 20 1/2 17 1/2 14 3/8 7 8 3/8 45° 48 16.0 2 1/4 | 3/4 3 18 3/4 3 5/8 20 1/2 17 1/2 14 3/8 7 8 3/8 45° 4 3/4 14 1/4 15 1/4 1 1/4 48 16.0 18 3/4 3 5/8 2 1/4 | 3/4 20 1/2 17 1/2 14 3/8 8 3/8 45° 4 3/4 14 1/4 15 1/4 1 1/4 4 48 7 16.0 18 3/4 3 5/8 20 1/2 17 1/2 14 3/8 7 8 3/8 | 45° | 4 3/4 | 14 1/4 | 15 1/4 | 1 1/4 2 1/4 3/4 48 8 16.0

COUNTY:

STANDARD SIGN WO4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 11/20/13

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W041.DGN

PROJECT NO:

PLOT DATE: 20-NOV-2013 11:38

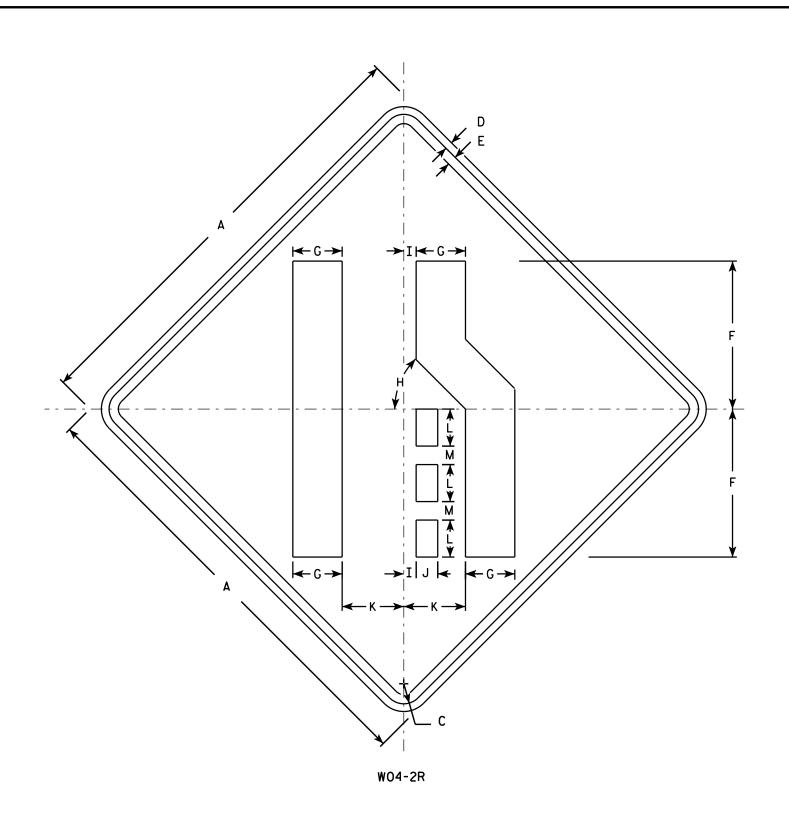
PLOT NAME :

PLOT SCALE : 6.080757:1.000000

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W04-2L is the same as W04-2R except the symbolis reversed along the vertical centerline.



SIZE 1 % 5/8 3/4 12 45° 1 3/4 5 1 1/2 4 36 3 9.0 2S 2 1/4 5 3/8 45° 1 ¼ 2 ¾ 6 ¾ 3/4 48 16.0 45° 1 ¼ 2 ¾ 6 ¾ 3/4 5 3/8 48 2 1/4 2 16.0 2 1/4 3 48 3/4 5 % 45° | 1 1/4 | 2 3/8 | 6 3/4 2 16.0 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 16.0 5 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 16.0

STANDARD SIGN W04 - 2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

ForState Traffic Engineer

DATE 11/20/13 PLATE NO. <u>WO4-2.1</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W042.DGN

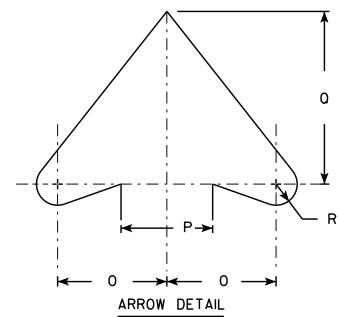
PROJECT NO:

PLOT DATE: 20-NOV-2013 11:43

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W04-3 L is the same as W04-3 R except the arrow is reversed along the vertical centerline.



ΙZΕ	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Areg sq. ft
1	36		1 1/8	5/8	3/4		12 3/4	7 1/2	1 1/2	2 1/4	3	18	11 1/8	45°	4 %	4	7 3/8	<i>7</i> ⁄8	7 3/4	12 3/4							9.0
S	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 %	1 1/4	10 1/4	17							16.0
М	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 %	1 1/4	10 1/4	17							16.0
3	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 1/8	1 1/4	10 1/4	17							16.0
4	48		2 1/4	₹4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 1/8	1 1/4	10 1/4	17							16.0
5	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 1/8	1 1/4	10 1/4	17							16.0

W04-3R

STANDARD SIGN W@433

WISCONSIN DEPT OF TRANSPORTATION

APPROVED M. // #

for State Traffic Engineer

DATE <u>11/20/13</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W043.DGN

W04-3L

PLOT DATE: 20-NOV-2013 11:49

PLOT BY: mscsja

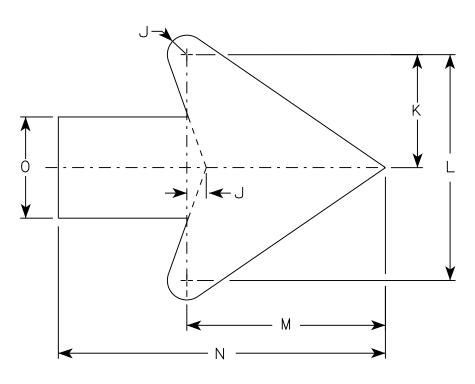
6.810449:1.000000 WISDOT/CADD

PLATE NO. WO4-3.1

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	Α	В	С	D	Е	F	G	Н	I	٦	K	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Υ	Z	Area sq. ft.
1	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 %	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2S	24		1 1/8	1/2	3/8		8	4	9 ½	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 ½	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 1/8	3/4	4 1/2	9	7 1/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 ½	10 1/8	9 %	15 3/4	4 3/4												9.0
5	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 ½	10 1/8	9 %	15 3/4	4 3/4												9.0

STANDARD SIGN WO12-1D

WISCONSIN DEPT OF TRANSPORTATION

DATE 7/28/16 PLATE NO. WO12-1D.2

HWY:

WO12-1D

COUNTY:

PLOT DATE . 11-416-2016 11-28

PINT RY . \$\$ plotuser \$\$ PINT NAMF :

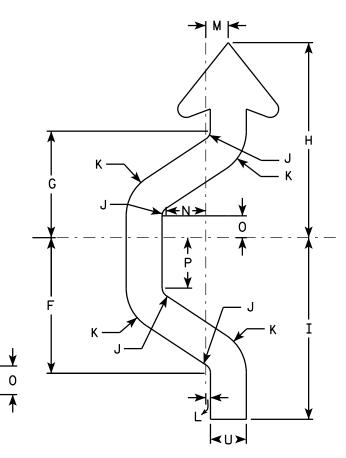
SHEET NO: PLOT SCALE . 4 621375.1 000000

PROJECT NO:

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W024-1R is the same as W024-1L except reversed along the vertical centerline.



			_		
Δr	$r_0$	w	I)e	+	1i I

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Areg sq. ft.
1	36		1 3/8	5/8	1/2	11 3/8	8 1/8	16 3/8	15 1/4	3/4	3 3/4	3/8	2	3 3/8	1 1/8	4 1/4		5 ½	3 ½	5/8	3						9
2S	48		2 1/4	1	3/4	15 1/8	11 1/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 %		7 3/8	4 3/4	7∕8	4						16
2M	48		2 1/4	1	3/4	15 1/8	11 1/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 %		7 3/8	4 3/4	7∕8	4						16
3	48		2 1/4	1	3/4	15 1/8	11 1/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 %		7 3/8	4 3/4	7∕8	4						16
4	48		2 1/4	1	3/4	15 1/8	11 1/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 %		7 3/8	4 3/4	7/8	4						16
5	48		2 1/4	1	3/4	15 1/8	11 1/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 %		7 3/8	4 3/4	<b>½</b>	4						16

COUNTY:

W024-1L

STANDARD SIGN W024-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Raw

DATE 9/25/2013 PLATE NO. WO24-1.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W0241.DGN

HWY:

PROJECT NO:

W024-1R

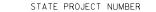
PLOT DATE: 25-SEP-2013 13:08

Arrowhead Detail

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 10.702132:1.000000



#### 1030-07-78

# DESIGN DATA

LIVE LOAD:

INVENTORY RATING FACTOR: RF = 1.20
OPERATING RATING FACTOR: RF = 1.55
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250(KIPS)

MATERIAL PROPERTIES:

CONCRETE MASONRY: DECK REPAIR -

- f'c = 4,000 P.S.I.

#### TRAFFIC VOLUME

IH 94 WB (RAMP RYB) OVER OAK CREEK

#### GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM

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

"RAPID SET DECK REPAIR".

# CURVE DATA

△ = 14°58'54" RT

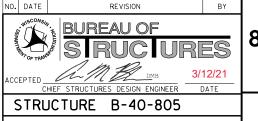
T = 330.69

P.T. = 238RYB+64.01

#### STRUCTURE DESIGN CONTACTS:

BRETT FOLLETT

(608) 266-0214



MIL WAUKEE CITY OAK CREEK

DESIGN SPEC. REHABILITATION N/A DESIGNED DESIGNED DRAWN
BY BAF CK'D. EMK BY

BAF CK'D. EMK SHEET 1 OF

ADT = 4100 (2035)

"POLYMER OVERLAY".

PREPARATION DECKS TYPE 1 AND PREPARATION DECKS TYPE 2
ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER.
DECK PREPARATION REPAIRS SHALL BE FILLED WITH

# R RAMP RYB

P.I. = 235RYB+3**7.**09

D = 2°16"41"

L = 65**7.**62

R = 2515 P.C. = 232RYB+6.39

AARON BONK

(608) 261-0261

IH 94 WB (RAMP RYB) OVER OAK CREEK

POLYMER OVERLAY

#### TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
	509.0301	PREPARATION DECKS TYPE 1	SY	4
	509.0302	PREPARATION DECKS TYPE 2	SY	2
	509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	40
	509.5100.S	POLYMER OVERLAY	SY	342
☆	SPV.0035	RAPID SET DECK REPAIR	CY	1

ALL ITEMS ARE CATEGORY 2000

☐ INDICATES WING NUMBER

PLAN

TOP OF DECK SHOWN

 $115'-1\frac{7}{8}$ " - BACK TO BACK OF ABUTMENTS

113'-95%" - OVERLAY (POLYMER) LIMITS

45'-71/8" - SPAN 2

29'-103/4" - OUT TO OUT OF SUPERSTRUCTURE

27'-0" - OVERLAY (POLYMER) LIMITS

15'-0"

TRAFFIC LANE

4.8%

CROSS SECTION THRU ROADWAY

(LOOKING NORTH) ALL HORIZONTAL DIMENSIONS ARE MEASURED RADIALLY- NORMAL TO THE CURVED R RAMP RYB

— ₹ RAMP RYB

8'-0"

SHOULDER

33'-53/4" - SPAN 3

- CHORD A-B

₽ PIER 2

♠ BRG. NORTH ABUT. –

1'-53/8''

1'-31/4"

LIST OF DRAWINGS 1. POLYMER OVERLAY

-END OF DECK STA 236RYB+89.04

2

I.D. 1030-0**7**-08A

DATE: JAN. 2019

€ PIER 1-

9°41′57′′

SKEW, TYP.

R RAMP RYB-

33'-5¾" - SPAN 1

1/4 MIN. POLYMER-OVERLAY

B.F. ABUT. -F.F. ABUT. (TYP.)

L BRG. SOUTH ABUT.

END OF DECK STA 235RYB+75.24

1'-31/4"

1'-53/8"

EXISTING SLOPED FACE PARAPET

4'-0"

SHOULDER

MEASURED

ALONG CHORD A-B

8

1030-07-78

# DESIGN DATA

LIVE LOAD:

INVENTORY RATING FACTOR: RF = 1.20
OPERATING RATING FACTOR: RF = 1.55
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250(KIPS)

MATERIAL PROPERTIES:

CONCRETE MASONRY: DECK REPAIR -

- f'c = 4,000 P.S.I.

#### TRAFFIC VOLUME

IH 94 EB (RAMP RYC) OVER OAK CREEK

ADT = 4900 (2035)

#### GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

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

PREPARATION DECKS TYPE 1AND PREPARATION DECKS TYPE 2 ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION REPAIRS SHALL BE FILLED WITH "RAPID SET DECK REPAIR".

-1/4 MIN. POLYMER OVERLAY

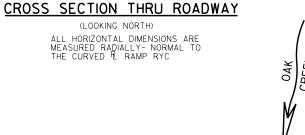
4'-0"

SHOULDER

1'-53/8'

-EXISTING SLOPED FACE PARAPET 'HF' MODIFIED, TYP.

1'-53/8''



#### 115'-21/4" - BACK TO BACK OF ABUTMENTS MEASURED 113'-10" - OVERLAY (POLYMER) LIMITS ALONG CHORD C-D 33'-5%" - SPAN 1 45'-8" - SPAN 2 1'-31/4" 33'-57/8" - SPAN 3 \_1'-3<sup>1</sup>/<sub>4</sub>'' END OF DECK STA235 RYC+74.94 -CHORD C-D -END OF DECK STA 236 RYC+88.78 € PIER 1 R RAMP RYC-€ BRG. NORTH ABUT. --€ BRG.SOUTH ABUT. B.F. ABUT. -SKEW, T F.F. ABUT. € PIER 2 8" PAVING NOTCH 3 PLAN

TOP OF DECK SHOWN

29'-103/4" - OUT TO OUT OF SUPERSTRUCTURE

27'-0" - OVERLAY (POLYMER) LIMITS

(LOOKING NORTH)

15'-0"

TRAFFIC LANE

4.4%

# CURVE DATA

R RAMP RYC

P.I. = 235RYC+81.54 △ = 14°24'1**7.**26" LT

D = 2°53"11.1**7**" T = 250.85

L = 499.05

R = 1985

P.C. = 233RYC+30.69

P.T. = 238RYC+29.74

#### STRUCTURE DESIGN CONTACTS:

BRETT FOLLETT AARON BONK

(608) 266-0214 (608) 261-0261

DATE

BAF CK'D. EMK

NO. DATE REVISION BY

CHIEF STRUCTURES DESIGN ENGINEER

STRUCTURE B-40-808

IH 94 EB (RAMP RYC) OVER OAK CREEK MILWAUKEE CITY OAK CREEK DESIGN SPEC. REHABILITATION N/A

DESIGNED DESIGNED DRAWN
BY BAF CK'D. EMK BY

SHEET 1 OF POLYMER OVERLAY

### TOTAL ESTIMATED QUANTITIES

8

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
	509.0301	PREPARATION DECKS TYPE 1	SY	4
	509.0302	PREPARATION DECKS TYPE 2	SY	2
	509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	40
	509.5100.S	POLYMER OVERLAY	SY	342
☆	SPV.0035	RAPID SET DECK REPAIR	CY	1

R RAMP RYC ->

8'-0"

SHOULDER

ALL ITEMS ARE CATEGORY 2010

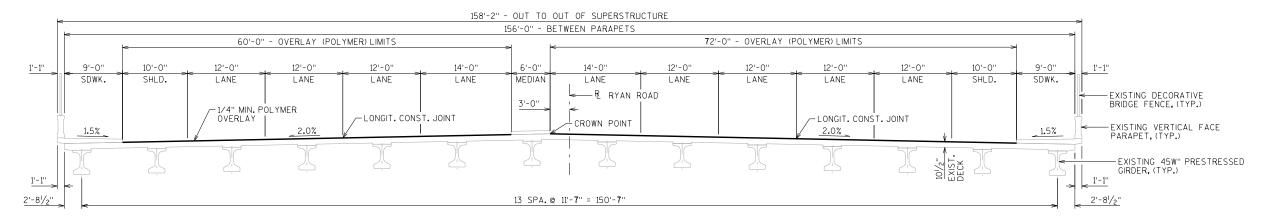
☐ INDICATES WING NUMBER

LIST OF DRAWINGS

1. POLYMER OVERLAY

STATE PROJECT NUMBER

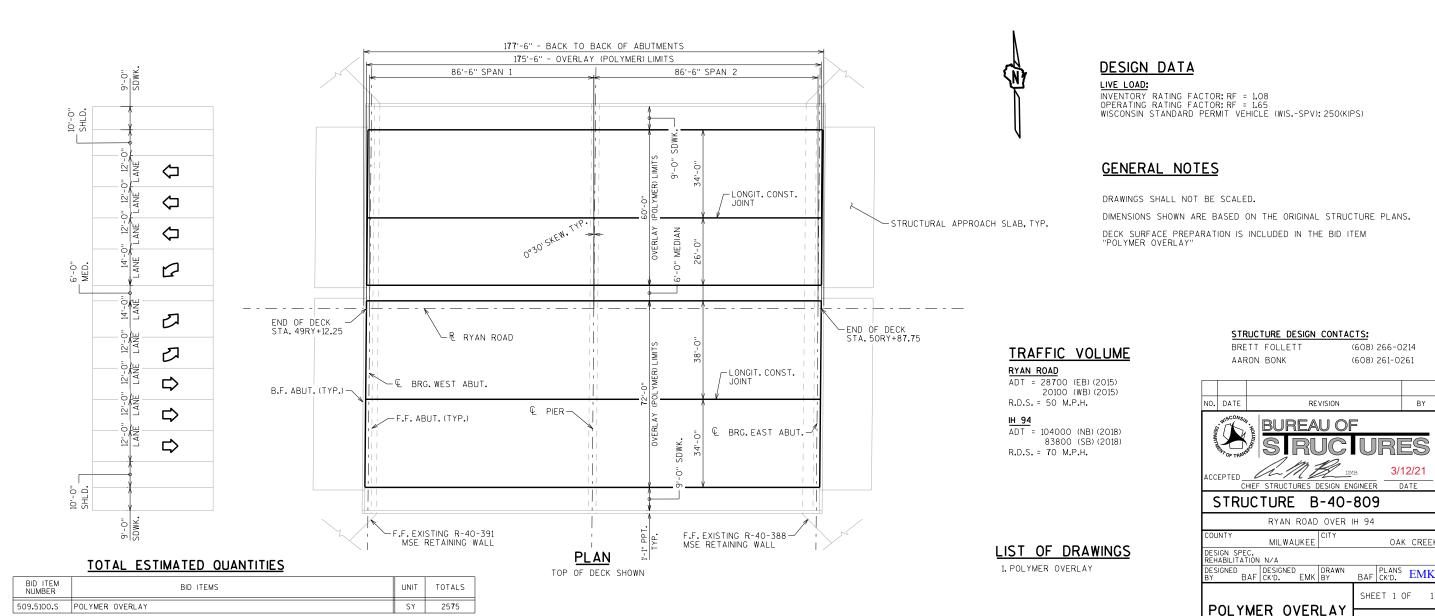
1030-07-78



#### CROSS SECTION THRU ROADWAY

8

ALL ITEMS ARE CATEGORY 2020



BY

DATE

OAK CREEK



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov