ယ

OCTOBER 2024

ORDER OF SHEETS

Section No. 1 Title Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantities

Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings Section No. 7 Sign Plates

Section No. 9 Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS = 160

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

WEST ALLIS, W BELOIT ROAD

MOBILE ST - UP RR CROSS

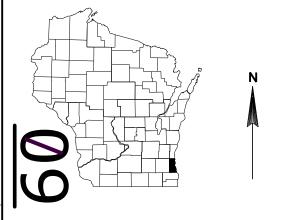
LOCAL STREET MILWAUKEE COUNTY

> STATE PROJECT NUMBER 2525-03-73

> > R-21-E

West

auwatosa



DESIGN DESIGNATION

		W BELOIT RD	S 55TH STREET
A.A.D.T. 2023	=	12,200	>100
A.A.D.T. 2043	=	13,500	>100
D.H.V.	=	1,350	N/A
D.D.	=	61/39	N/A
T.	=	6.9%	N/A
DESIGN SPEED	=	35 MPH	30 MPH

ESALS 1,300,000

CONVENTIONAL SYMBOLS

PLAN 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 COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA

1//////

PL + 58.1

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

FIRER OPTIC SANITARY SEWER STORM SEWER TELEPHONE UTILITY PEDESTAL POWER POLE Ġ TELEPHONE POLE

_ ROCK _ _ LABEL_ _ _

END PROJECT

STA. 46+50.00

BEGIN PROJECT

STA. 43+50.00

N = 373,639.42 E = 2,537,949.37

Allis OKL AHOMA LAYOUT 1.0 MI. SCALE L TOTAL NET LENGTH OF CENTERLINE = 0.098 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), SOUTH' ZONE, NAD27, GROUND, US SURVEY FOOT

T-7-N

END CONSTRUCTION

BEGIN CONSTRUCTION

STA. 12+89.67

N = 372,718.91 E = 2,540,092.12

T-6-N

STA. 15+05.35

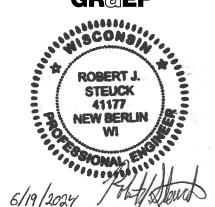
Milwaukee

VERTICAL DATUM - CITY OF WEST ALLIS. (NGVD29 - 580.56)

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT WISC 2024325 2525-03-73

> ACCEPTED FOR WEST ALLIS

ORIGINAL PLANS PREPARED BY



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY GRAEF GRAEF MICHAEL BAIRD Project Manager Regional Examiner BRIAN BOOTHRY Regional Supervisor ____ C.O. Examiner

PPROVED FOR THE DEPARTMENT

Ε

West

Milwaukee

K innickinnic

PLOT BY : GRAEF

R-22-E

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS INDICATED FOR REMOVAL

THE EXACT LOCATION OF PRIVATE ENTRANCES IS TO BE DETERMINED IN THE

THE LOCATION OF KNOWN EXISTING UTILITIES IN THE VICINITY OF THE PROJECT ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITIES IN THE AREA THAT ARE NOT SHOWN.

HMA PAVEMENT WHERE INDICATED ON THE PLANS, SHALL CONSIST OF LAYERS AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.

6" DEPTH - 2" OF HMA PAVEMENT 4 MT 58-28 H AS THE UPPER LAYER 4" OF HMA PAVEMENT 3 MT 58-28 S AS THE LOWER LAYER

THE CONTRACTOR SHALL 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 SEPARATELY.

CONCRETE JOINTS SHALL MATCH ABUTTING PAYEMENT AND CURB AND GUTTER JOINTS UNLESS OTHERWISE DESIGNATED BY THE ENGINEER.

CONTRACTOR SHALL CONTACT UPRR PUBLIC PROJECTS MANAGER PRIOR TO ANY WORK WITHIN UPRR RIGHT-OF-WAY.

STANDARD ABBREVIATIONS

APRON END WALL AGGREGATE BASE AGGREGATE DENSE BM C&G BENCH MARK CURB AND GUTTER
CENTER OR CONSTRUCTION LINE
CONCRETE C/L CONC CP CULVERT PIPE
CULVERT PIPE CORRUGATED METAL
CULVERT PIPE REINFORCED CONCRETE
CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CORRUGATED STEEL CULVERT PIPE
CORRUGATED STEEL PIPE ARCH
CONCRETE SURFACE DRAIN
CUBIC-YARD CULVERT PIPE CPCM CPRC CSD CY D CUBIC-YARD DEGREE OF CURVE DEL TA DISCH DISCHARGE FIELD ENTRANCE FE HERCP HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE HOT MIX ASPHALT НМА INVERT
LENGTH OF CURVE
LEFT HAND FORWARD
LEFT
MINIMUM INV L LHF LT MIN M/L NB NC NTS PAVT PB PC PE PLE PLE PVC MATCHLINE NORTHBOUND NORMAL CROWN NOT TO SCALE PAVEMENT POINT OF COMPOUND CURVE
POINT OF COMPOUND CURVE
PRIVATE ENTRANCE
POINT OF INTERSECTION
PERMANENT LIMITED EASEMENT PERMANENT LIMITED EASEMENT
POINT OF TANGENT
POINT OF VERTICAL CURVE
POINT OF VERTICAL INTERSECTION
POINT OF VERTICAL TANGENT
RADIUS OF CURVE
REFERENCE LINE PVI PVT R/L R/W RIGHT OF WAY RAD RADIUS REVERSE CROWN REVERSE CROWN
APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
REINFORCED CONCRETE HORIZONTAL ELLIPTICAL STORM SEWER
REINFORCED CONCRETE PIPE - STORM SEWER
REQUIRED
RIGHT HAND FORWARD
RUN OFF LENGTH RCHESS RCPSS REQD RHF RO RT SALV SALVAGED SB SDD SE SF STA SIGNAL BASE STANDARD DETAIL DRAWING SUPER ELEVATION SQUARE FOOT STATION SQUARE YARD TANGENT LENGTH TC TLE TEMPORARY LIMITED EASEMENT

CITY OF WEST ALLIS

TRACIGENGLER CITY OF WEST ALLIS ENGINEERING DEPARTMENT 7525 W GREENFIELD AVENUE WEST ALLIS, WI 53214 TGENGLER@WESTALLISWI.GOV

DESIGN CONTACT

BOB STEUCK GRAEF 275 W WISCONSIN AVENUE, SUITE 300 MILWAUKEE, WI 53203 (414) 266-9293 BOB.STEUCK@GRAEF-USA.COM

DEPT OF NATURAL RESOURCES

RYAN PAPPAS WISCONSIN DEPT. OF NATURAL RESOURCES 1027 WEST ST PAUL AVENUE MILWAUKEE, WI 53233 (414) 750-7495 RYAN.PAPPAS@WISCONSIN.GOV

MILW COUNTY TRANSIT SYSTEM

DAVID LOCHER MCTS (BUS STOPS) 1942 N.17TH STREET MILWAUKEE, WI 53205 (414) 343-1727 DLOCHER@MCTS.ORG

ARMOND SENSABAUGH MCTS (DETOURS) 1942 N.17TH STREET MILWAUKEE, WI 53205 (414) 343-1728 ASENSABAUGH@MCTS.ORG

UNION PACIFIC RAILROAD

PATRICK HALSTED
DIR. INDUSTRY & PUBLIC PROJECTS
UNION PACIFIC RAILROAD CO.
1416 DODGE STREET - STOP 0910
OMAHA, NE 68179 (402) 271-4357

UTILITIES

AT&T LOCAL NETWORK DALE DEFEVER 1000 TOWN CENTER, SUITE 150 SOUTHFIELD, MI 48075 DD2579@ATT.COM

AT&T WISCONSIN NATHAN GILBERT 411 7TH STREET RACINE, WI 53403 (262) 720-8235 NG952W@ATT.COM

BRAHIM GADDOLIR 3235 INTERTECH DRIVE, SUITE 600 BROOKFIELD, WI 53045 (414) 908-6713; (414) 704-1026 (MOBILE) BRAHIM.GADDOUR@LUMEN.COM

MIDWEST FIBER NETWORKS MIDWEST FIBER NETWORKS
CORY SCHMUKI
6070 N FLINT ROAD
GLENDALE, WI53209
(414) 459-KEVIN WEHRHAHN
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI53212
(414) 908-4865; MOBILE (414) 430-9356 KEVIN.WEHRHANH@CHARTER.COM

SPRINT COMMUNICATIONS STEVE HUGHES 1457 COUNTY ROAD 545 S SKANDIA, WL49885 (814) 553-2300 SHUGHES@COGENTCO.COM

VELIZION RJ CICATELLO 15725 WEST RYERSON ROAD NEW BERLIN, WI 53151 (262) 232-1323 RANDY.CICATELLO@VERIZON.COM

WE ENERGIES (ELECTRIC)
TRAVIS BANGART
500 S 16TH STREET
WEST ALLIS, W153214
(414) 944-5634; MOBILE (414) 313-6479 TRAVIS.BANGART@WE-ENERGIES.COM

WE ENERGIES (GAS OPERATIONS) WE ENERGIES (GAS OPERATIONS)
BRADLEY ENGNATH
500 S 16TH STREET
WEST ALLIS, WI53214
(414) 944-5767; MOBILE (414) 588-7641
BRADLEY.ENGNATH@WE-ENERGIES.COM

WEST ALLIS - SANITARY TIM LAST 6300 MCGEOCH AVENUE WEST ALLIS, WI 53219 (414) 302-8815 TLAST@WESTALLISWI.GOV

WEST ALLIS - WATER KARYN RITTENHOUSE 6300 MCGEOCH AVENUE WEST ALLIS, WI53219 (414) 302-8828; MOBILE (414) 975-6480

OTHER CONTACTS

WEST ALLIS - STREET LIGHTING DON MOLLESON 6300 MCGEOCH AVENUE WEST ALLIS, WI 53219 (414) 302-8873; MOBILE (414) 239-4751 DMOLLESON@WESTALLISWI.GOV

SHEET

INDEX OF DETAIL SHEETS

GENERAL NOTES PROJECT OVERVIEW
TYPICAL SECTIONS CONSTRUCTION DETAILS REMOVAL PLAN PLAN DETAIL CURB RAMP DETAIL PAVEMENT GRADES EROSION CONTROL LITILITY PLAN SANITARY SEWER & WATER MAIN LANDSCAPE PLAN PERMANENT SIGNING LIGHTING PLAN PAVEMENT MARKING
TRAFFIC CONTROL
CONSTRUCTION STAGING
DETOMPLAN ALIGNMENT PLAN



PROJECT NO: 2525-03-73

HWY: W BELOIT ROAD

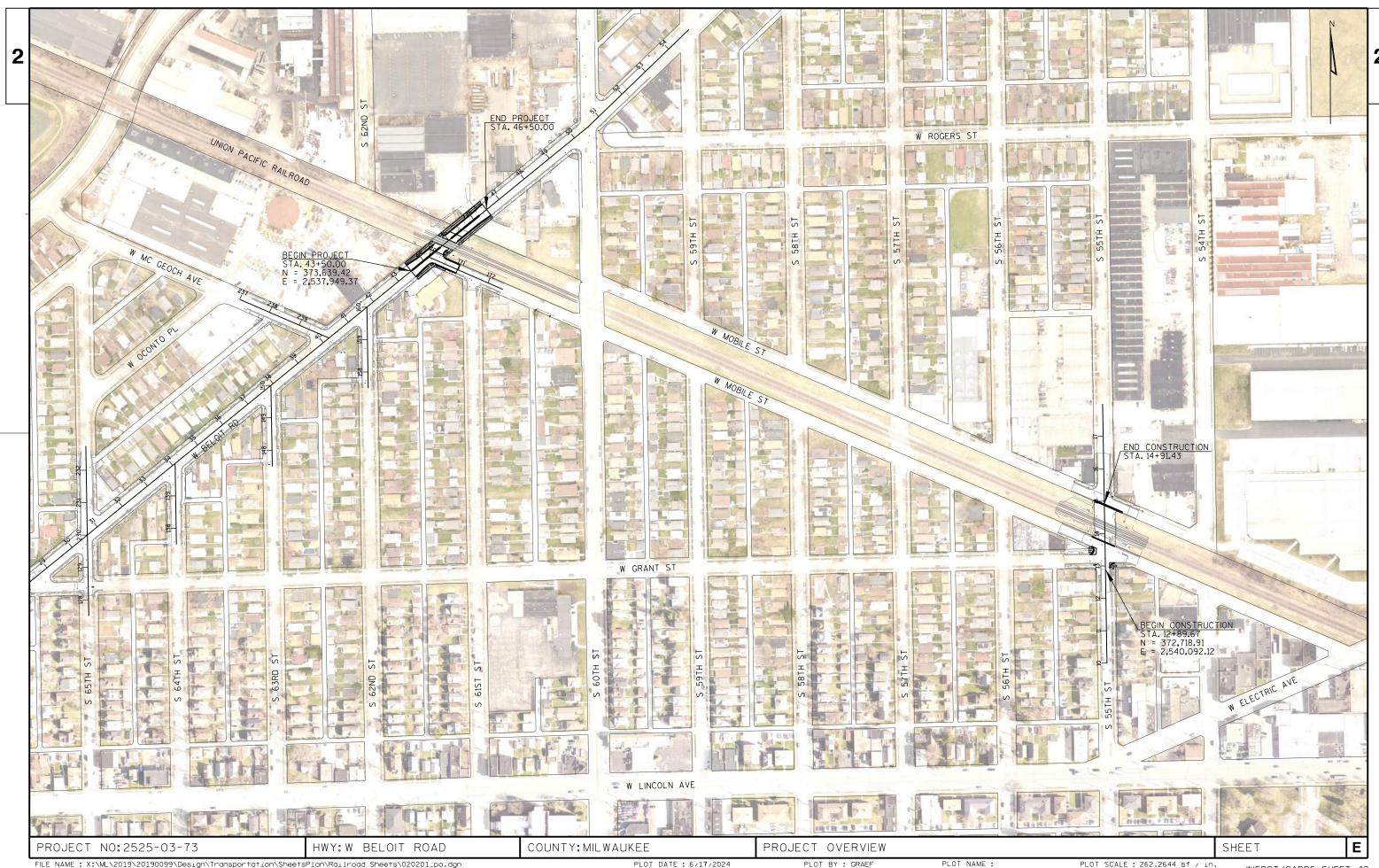
COUNTY: MILWAUKEE

GENERAL NOTES

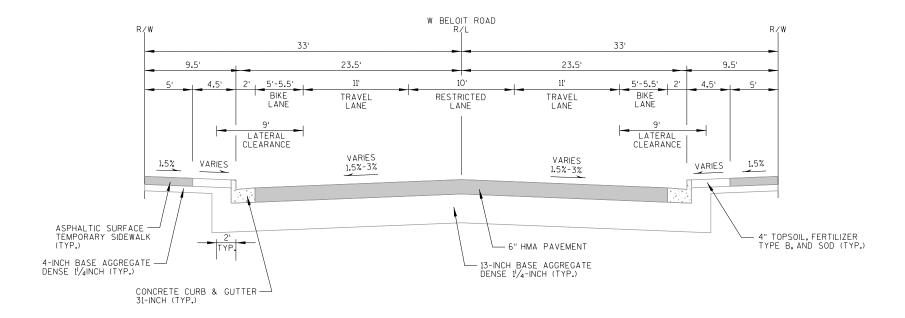
PLOT BY : GRAEF

PLOT NAME :

Ε

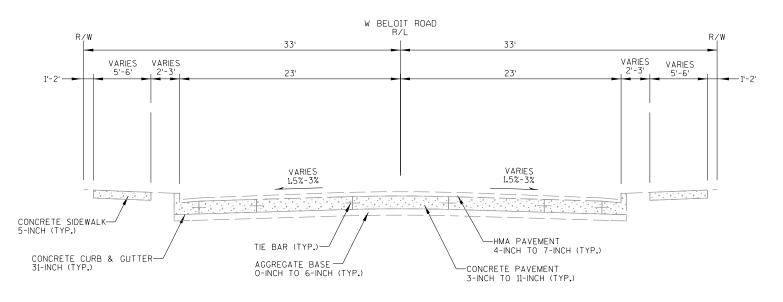






TYPICAL EXISTING SECTION

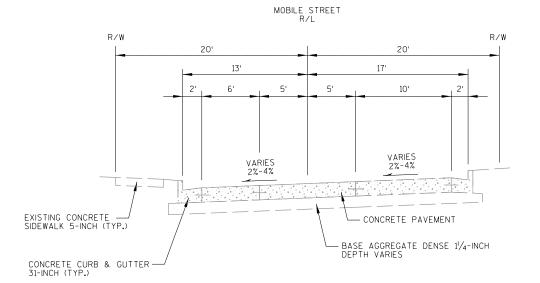
STA 43+50 TO STA 43+75 STA 46+30 TO STA 46+50



TYPICAL EXISTING SECTION

STA 43+75 TO STA 46+30

E PROJECT NO: 2525-03-73 HWY: W BELOIT ROAD COUNTY: MILWAUKEE TYPICAL SECTIONS SHEET PLOT BY : GRAEF PLOT NAME :



TYPICAL EXISTING SECTION

W MOBILE STREET

PROJECT NO: 2525-03-73 HWY: W BELOIT ROAD COUNTY: MILWAUKEE

TYPICAL SECTIONS

PLOT NAME :

WISDOT/CADDS SHEET 42

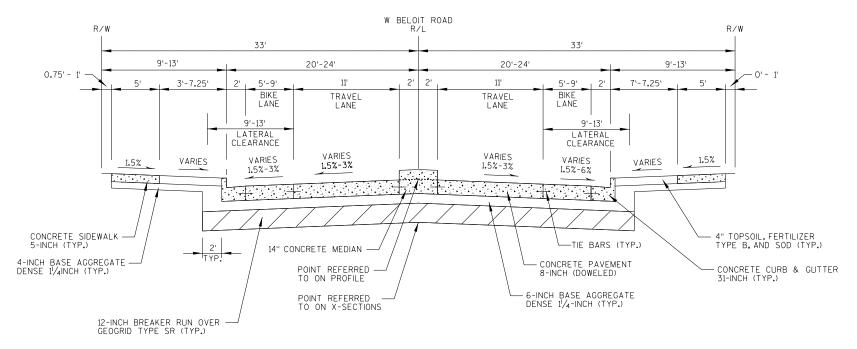
SHEET

E

PLOT DATE: 6/17/2024

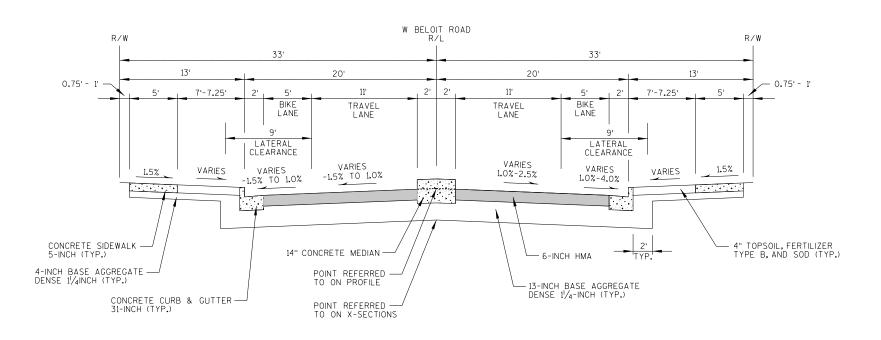
PLOT BY : GRAEF





TYPICAL FINISHED SECTION

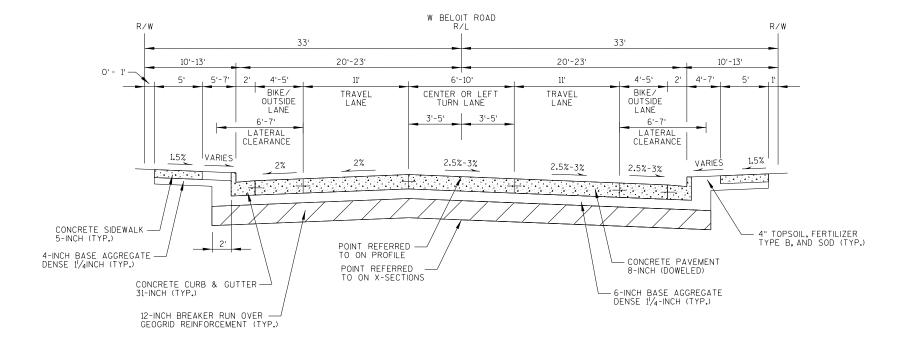
STA 43+50 TO STA 44+46 STA 45+29 TO STA 46+25

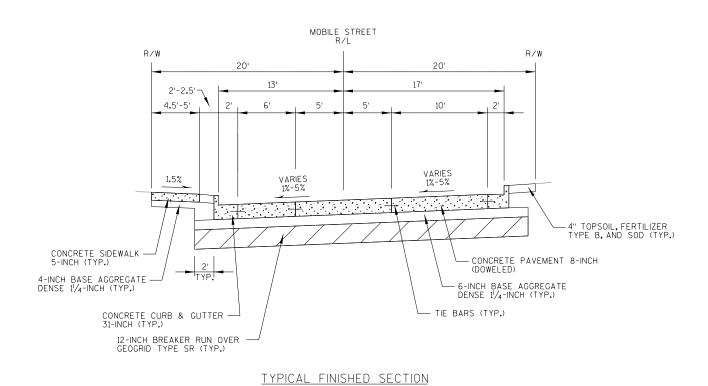


TYPICAL FINISHED SECTION

STA 44+46 TO STA 45+29

PROJECT NO:2525-03-73 HWY:W BELOIT ROAD COUNTY:MILWAUKEE TYPICAL SECTIONS SHEET **E**





TYPICAL FINISHED SECTION STA 46+25 TO STA 46+50

PROJECT NO: 2525-03-73

COUNTY: MILWAUKEE

TYPICAL SECTIONS

SHEET

Ε

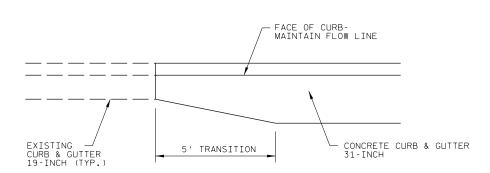
PLOT DATE: 6/17/2024

W MOBILE STREET STA 170+25 TO STA 170+98

FILE NAME: X:\ML\2019\20190099\Design\Transportation\SheetsPlan\Railroad Sheets\020301_ts.dgn

HWY: W BELOIT ROAD

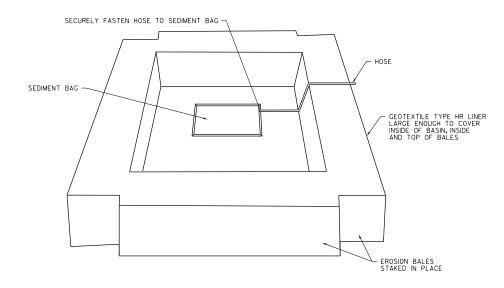




CONCRETE CURB AND GUTTER TRANSITION

(TRANSITION LENGTH PAID AS CONCRETE CURB AND GUTTER 31-INCH)

HWY: W BELOIT ROAD



EXAMPLE TEMPORARY SETTLING BASIN DETAIL

(SIZE TO BE DETERMINED IN FIELD AS INDICATED BELOW:) STORAGE VOLUME (C.F.) = 16 X GPM (PUMP RATE) EXAMPLE: CONTRACTOR INDICATES PUMP CAPABLE OF 50 GPM HEIGHT OF BALES = 1.5 FT. USE A 20 FT. X 27 FT. BASIN

NOTES

- CONTRACTOR SHALL PUMP TURBID WATER FROM EXCAVATION TO SEDIMENT BAG PLACED INSIDE FABRIC LINED STAKED BALE ENCLOSURE PRIOR TO DISCHARGING TO DITCHES/INLETS/WETLANDS OR WATERWAYS.
- 2. SEDIMENT BAG TO BE PLACED IN AN UPLAND VEGETATED AREA OR EQUIVALENT LOCATION APPROVED BY THE ENGINEER.
- BASIN TO BE KEPT LESS THAN 10% FULL OF SEDIMENT, GEOTEXTILE FABRIC AND SEDIMENTS TO BE DISPOSED BY THE CONTRACTOR OFF OF THE PROJECT SITE.
- 4. TEMPORARY SETTLING BASIN IS PAID FOR AS EROSION BALES AND GEOTEXTILE FABRIC TYPE HR. THE SEDIMENT BAGS ARE INCIDENTAL.
- 5. SEDIMENT BAG TO BE REPLACED AS NECESSARY AND IS INCIDENTAL TO CONTRACT.
- 6. SIZE TO BE DETERMINED BY THE CONTRACTOR AS PART OF THE ECIP SUBMITTAL.

PLOT NAME :

CONSTRUCTION DETAILS

SHEET

Ε

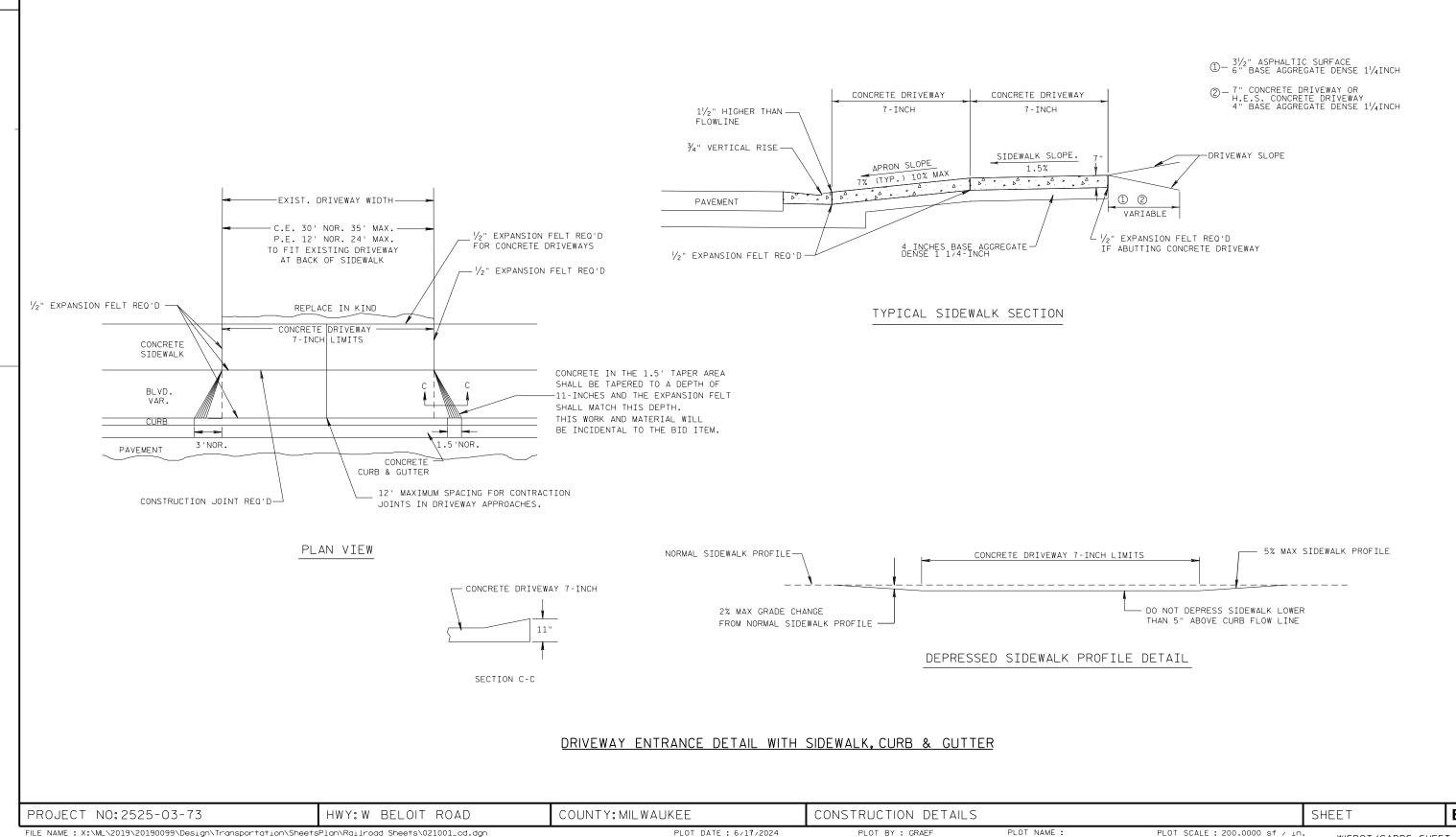
PLOT DATE: 6/17/2024

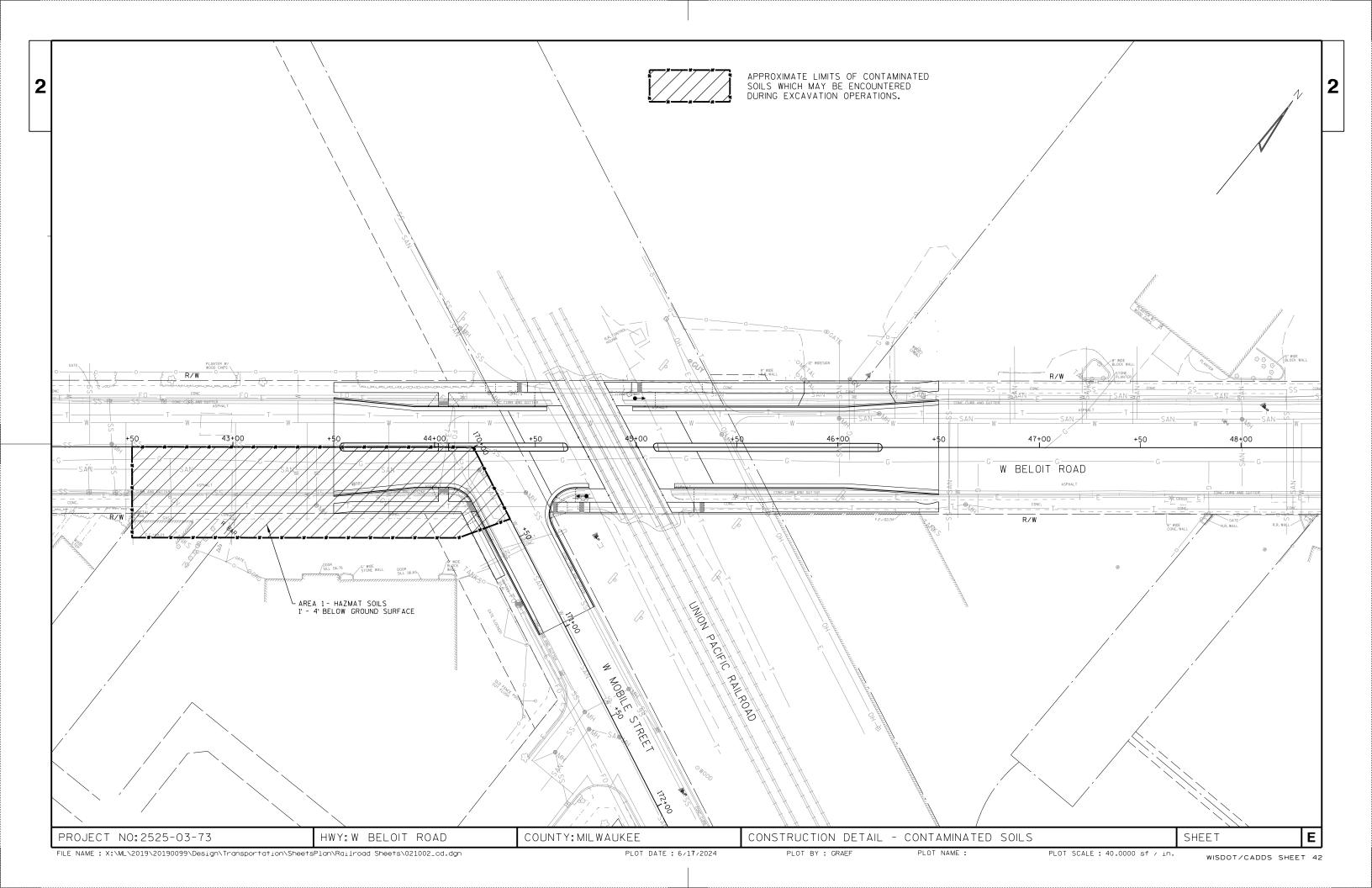
COUNTY: MILWAUKEE

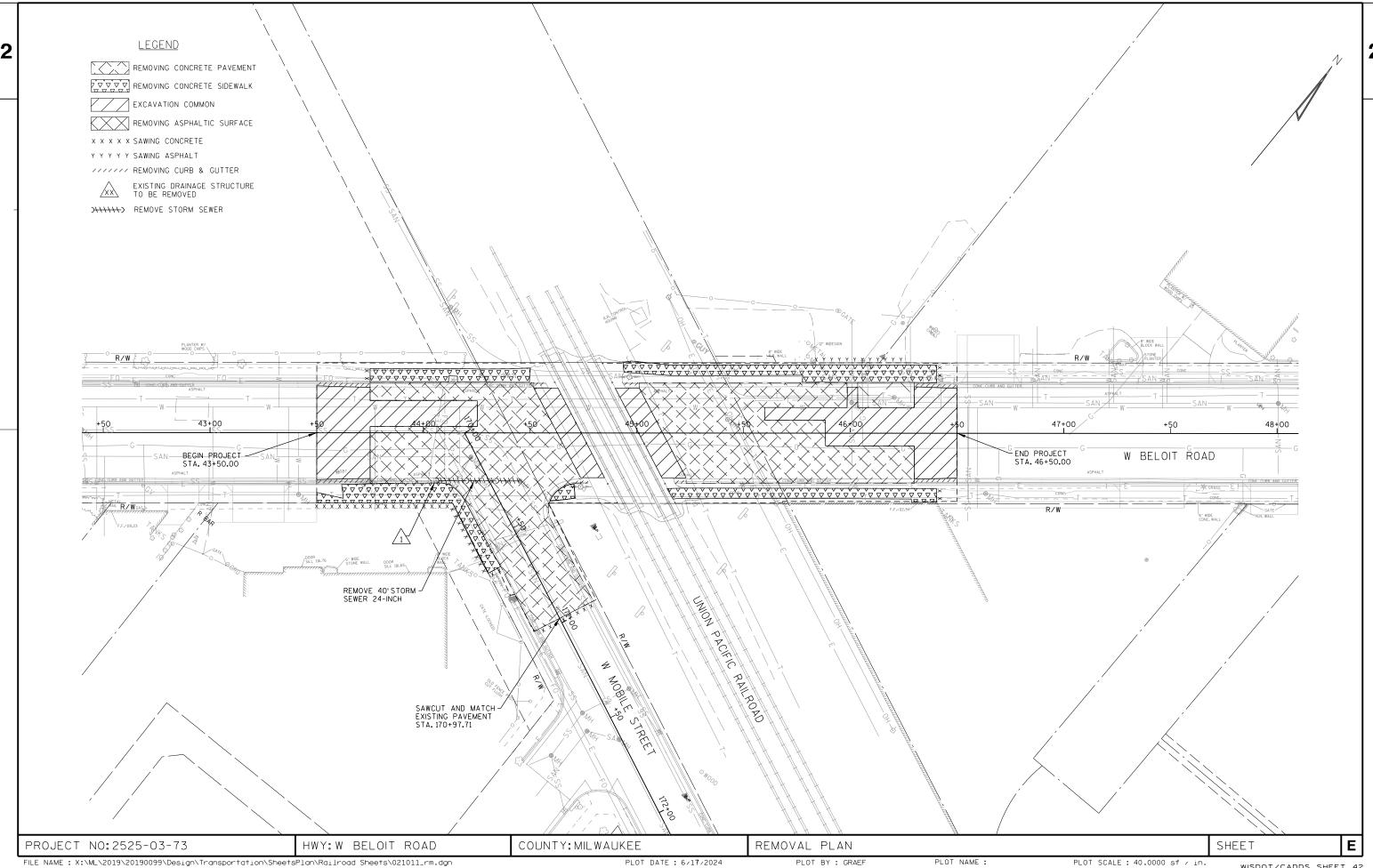
PLOT SCALE: 200.0000 sf / in.

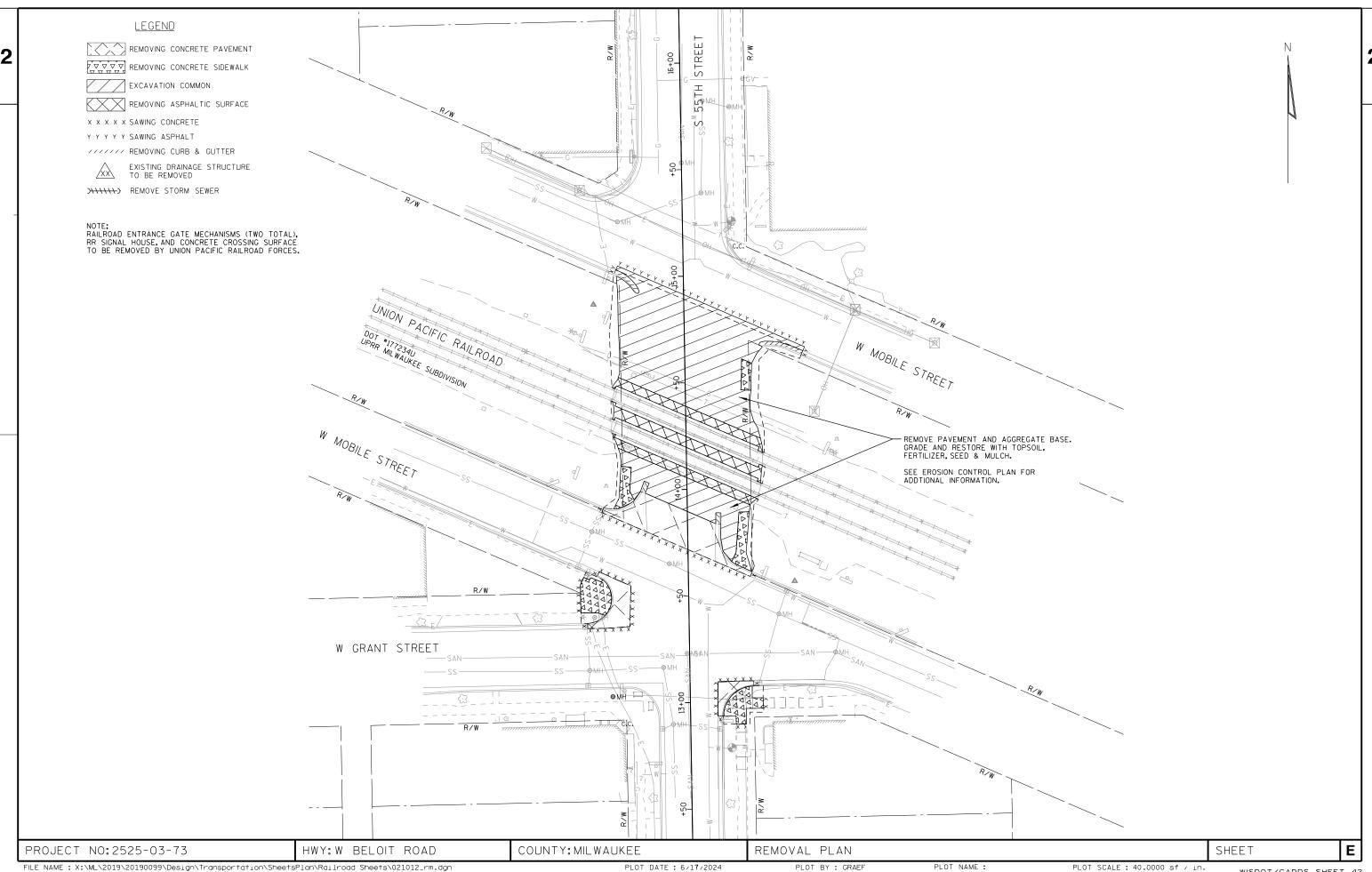
PROJECT NO: 2525-03-73

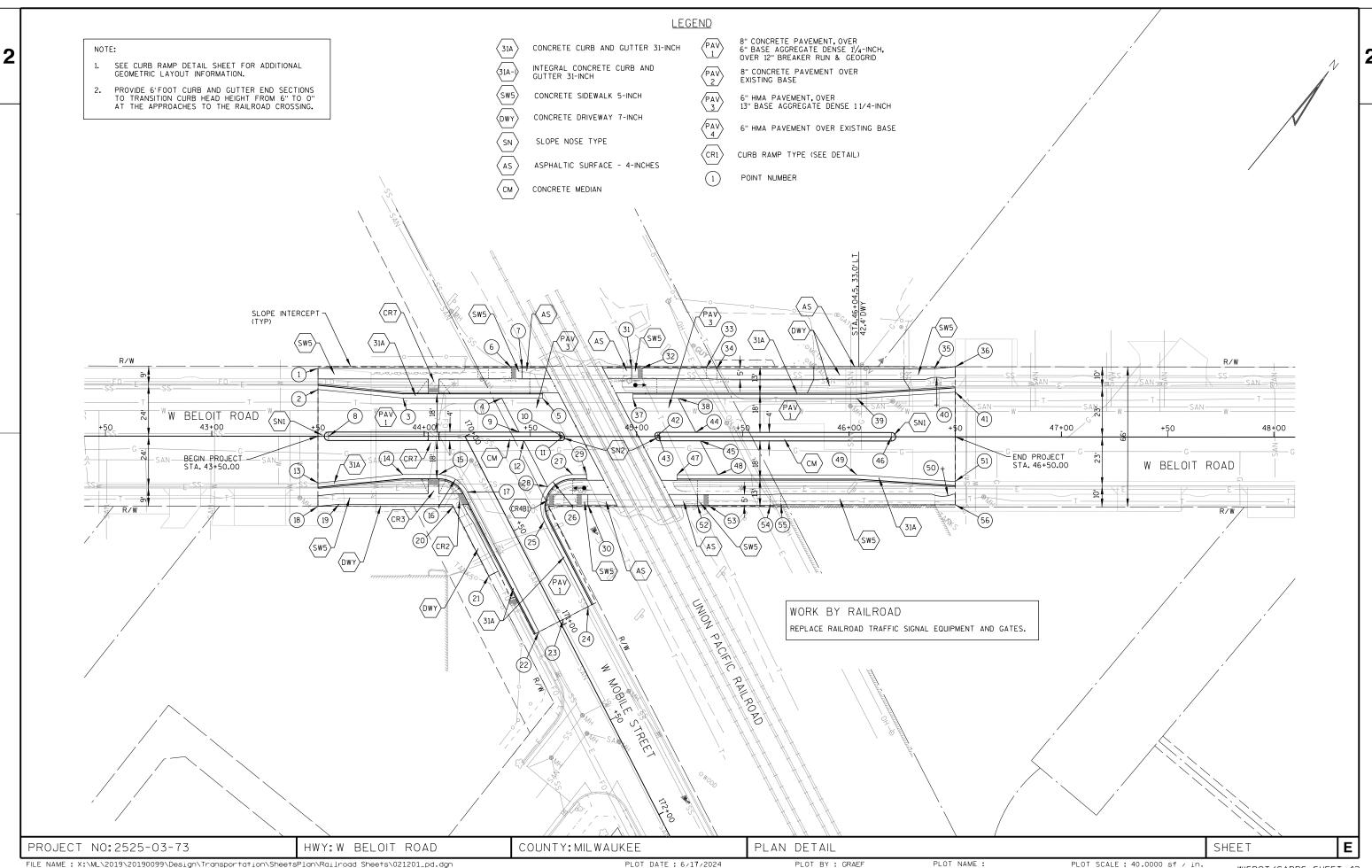












DOINT				T
POINT NUMBER	STATION	OFFSE	Т	DESCRIPTION
1	43+50.00	32.00	LT	BEGIN BACK OF SIDEWALK / MATCH EXISTING
2	43+50.00	22.00	LT	BEGIN CURB AND GUTTER / MATCH EXISTING
3	43+90.00	18.00	LT	CURB & GUTTER/PAVEMENT ANGLE POINT
4	44+36.44	18.00	LT	END CONCRETE PAVEMENT / BEGIN ASPHALT
5	44+55.70	18.00	LT	END CURB & GUTTER
6	44+41.12	32.25	LT	DETECTABLE WARNING FIELD
7	44+46.12	32.25	LT	END CONCRETE SIDEWALK / BEGIN ASPHALT PATH
8	43+55.00	0.00	LT	CENTER 3' RADIUS MEDIAN SLOPE NOSE
9	44+44.78	2.00	LT	END CONCRETE PAVEMENT / BEGIN ASPHALT
10	44+64.16	0.50	LT	CENTER OF 1.5' RADIUS MEDIAN NOSE
11	44+64.68	0.50	RT	CENTER OF 1.5' RADIUS MEDIAN NOSE
12	44+46.86	2.00	RT	END CONCRETE PAVEMENT / BEGIN ASPHALT
13	43+50.00	22.00	RT	BEGIN CURB AND GUTTER
14	43+90.00	18.00	RT	CURB & GUTTER/PAVEMENT ANGLE POINT
15	44+06.96	18.00	RT	BEGIN 15' C&G RADIUS
16	44+06.96	33.00	RT	CENTER OF 15' C&G RADIUS
17	44+20.30	26.15	RT	END 15' C&G RADIUS
18	43+50.00	33.00	RT	BEGIN BACK OF SIDEWALK
19	43+60.00	32.00	RT	BACK OF SIDEWALK ANGLE POINT
20	44+13.70	33.00	RT	CONCRETE REPLACEMENT LIMIT
21	170+63.60	20.00	RT	END SIDEWALK / MATCH EXISTING
22	170+97.74	11.00	RT	END CONCRETE PAVEMENT / MATCH EXISTING
23	170+97.74	2.00	LT	CONCRETE PAVEMENT CROWN MATCH POINT
24	170+97.74	15.00	LT	END CONCRETE PAVEMENT / MATCH EXISTING
25	44+56.57	39.85	RT	BEGIN 15' C&G RADIUS
26	44+69.91	33.00	RT	CENTER OF 15' C&G RADIUS
27	44+69.91	18.00	RT	END 15' C&G RADIUS
28	44+58.15	23.69	RT	END CONCRETE PAVEMENT / BEGIN ASPHALT

POINT NUMBER	STATION	OFFSET		DESCRIPTION
29	44+76.53	18.00	RT	END CURB & GUTTER
30	44+77.10	32.25	RT	END CONCRETE SIDEWALK / BEGIN ASPHALT PATI
31	44+97.64	32.25	LT	END CONCRETE SIDEWALK / BEGIN ASPHALT PATI
32	45+02.64	32.25	LT	DETECTABLE WARNING FIELD
33	45+32.71	32.25	LT	BACK OF SIDEWALK ANGLE POINT
34	45+37.71	32.00	LT	BACK OF SIDEWALK ANGLE POINT
35	46+40.00	32.00	LT	BACK OF SIDEWALK ANGLE POINT
36	46+50.00	33.00	LT	END BACK OF SIDEWALK / MATCH EXISTING
37	44+98.21	18.00	LT	BEGIN CURB & GUTTER
38	45+19.55	18.00	LT	END CONCRETE PAVEMENT / BEGIN ASPHALT
39	46+03.71	18.00	LT	CURB & GUTTER/PAVEMENT ANGLE POINT
40	46+41.18	15.00	LT	CENTER OF 13' R SIDEWALK ARC
41	46+50.00	21.00	LT	END CURB AND GUTTER / MATCH EXISTING
42	45+10.06	0.50	LT	CENTER OF 1.5' RADIUS MEDIAN NOSE
43	45+10.58	0.50	RT	CENTER OF 1.5' RADIUS MEDIAN NOSE
44	45+27.88	2.00	LT	END CONCRETE PAVEMENT / BEGIN ASPHALT
45	45+29.96	2.00	RT	END CONCRETE PAVEMENT / BEGIN ASPHALT
46	46+20.00	0.00	RT	CENTER 3' RADIUS MEDIAN SLOPE NOSE
47	45+19.04	18.00	RT	BEGIN CURB & GUTTER
48	45+38.29	18.00	RT	END CONCRETE PAVEMENT / BEGIN ASPHALT
49	46+03.71	18.00	RT	CURB & GUTTER/PAVEMENT ANGLE POINT
50	46+44.00	15.00	RT	CENTER OF 13' R SIDEWALK ARC
51	46+50.00	21.00	RT	END CURB AND GUTTER / MATCH EXISTING
52	45+28.62	32.25	RT	END CONCRETE SIDEWALK / BEGIN ASPHALT PAT
53	45+33.62	32.25	RT	DETECTABLE WARNING FIELD
54	45+63.00	32.25	RT	BACK OF SIDEWALK ANGLE POINT
55	45+68.00	32.00	RT	BACK OF SIDEWALK ANGLE POINT
56	46+50.00	32.00	RT	END BACK OF SIDEWALK / MATCH EXISTING

PROJECT NO:2525-03-73

HWY: W BELOIT ROAD

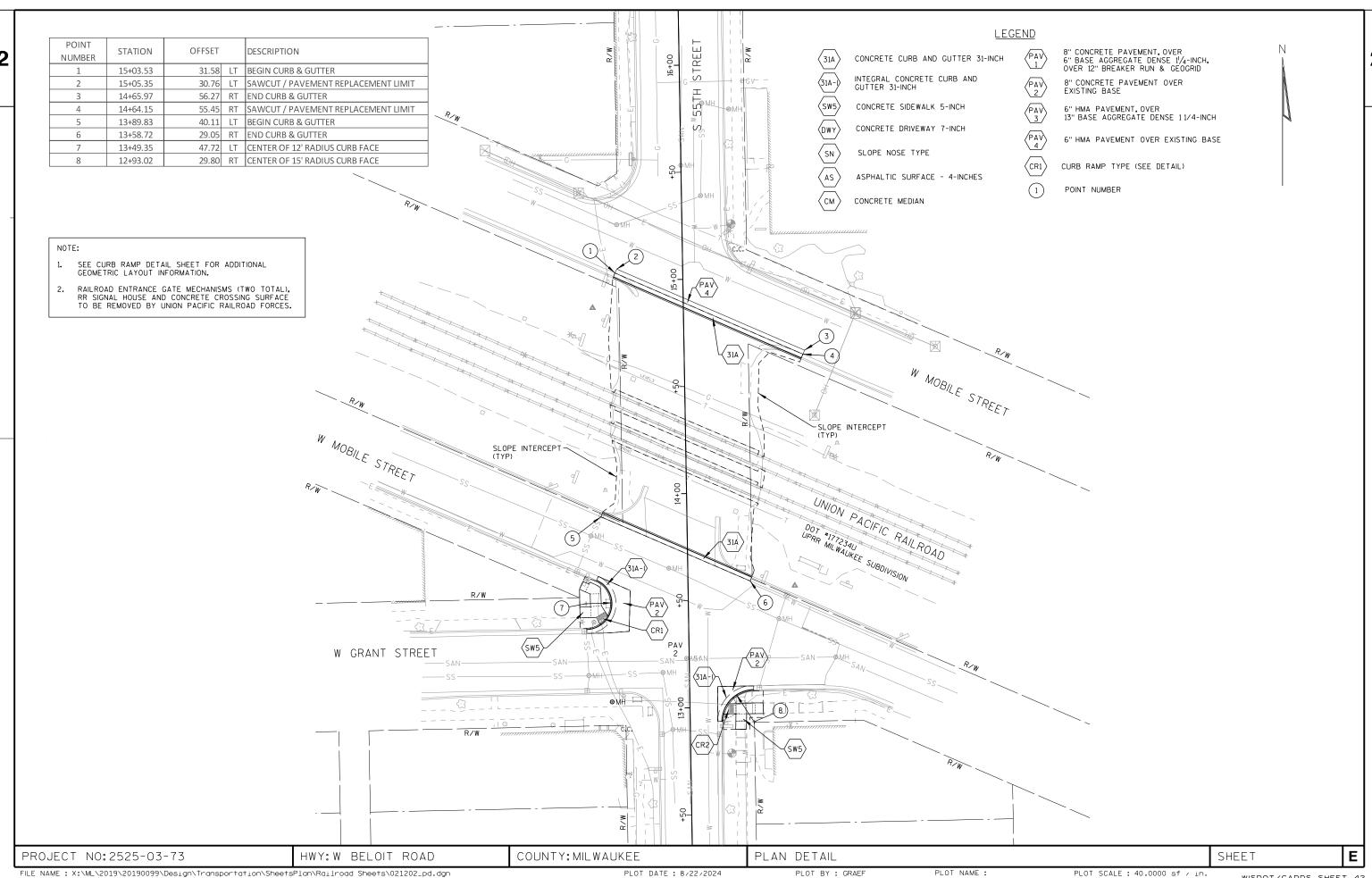
COUNTY: MILWAUKEE

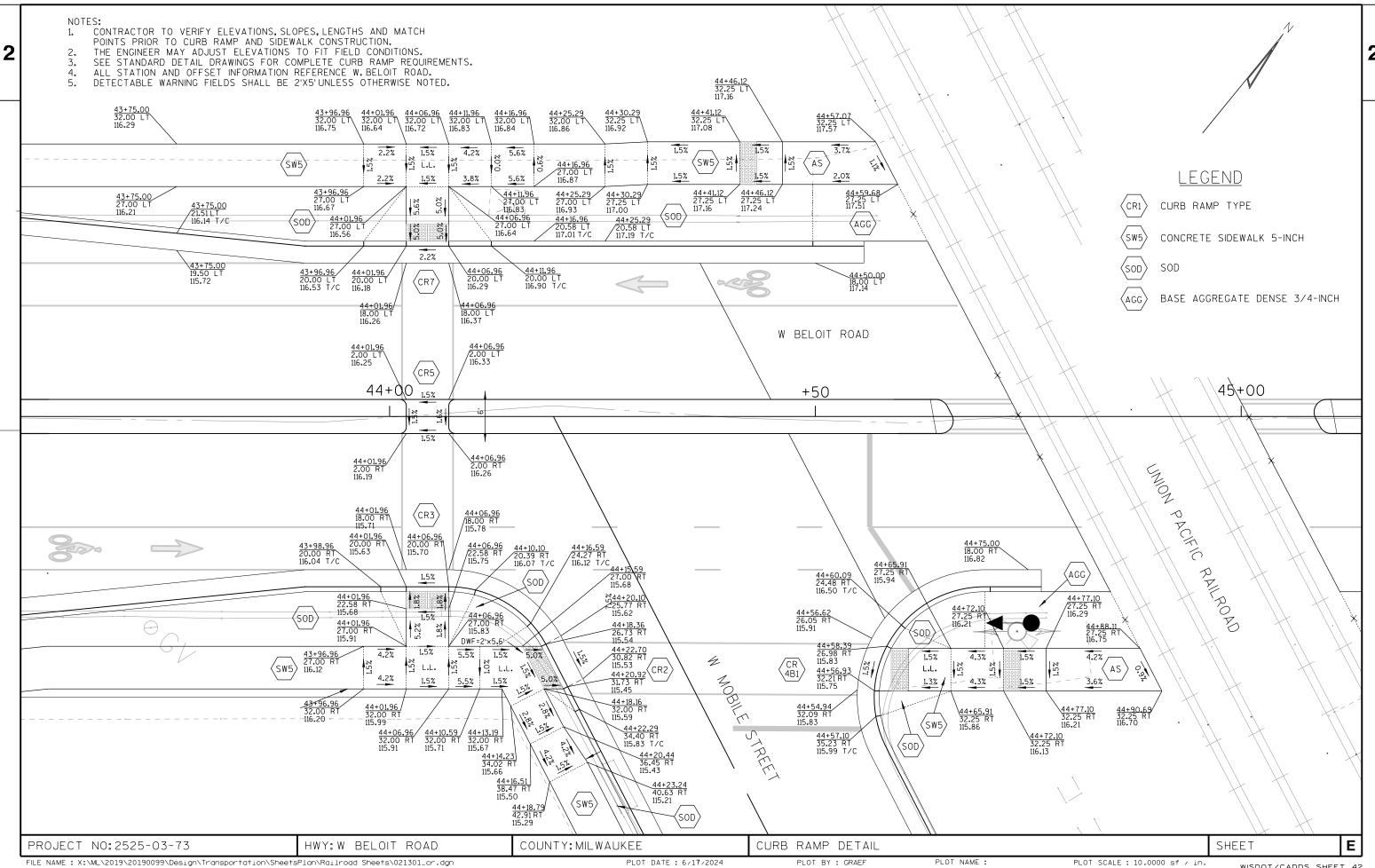
PLAN DETAIL

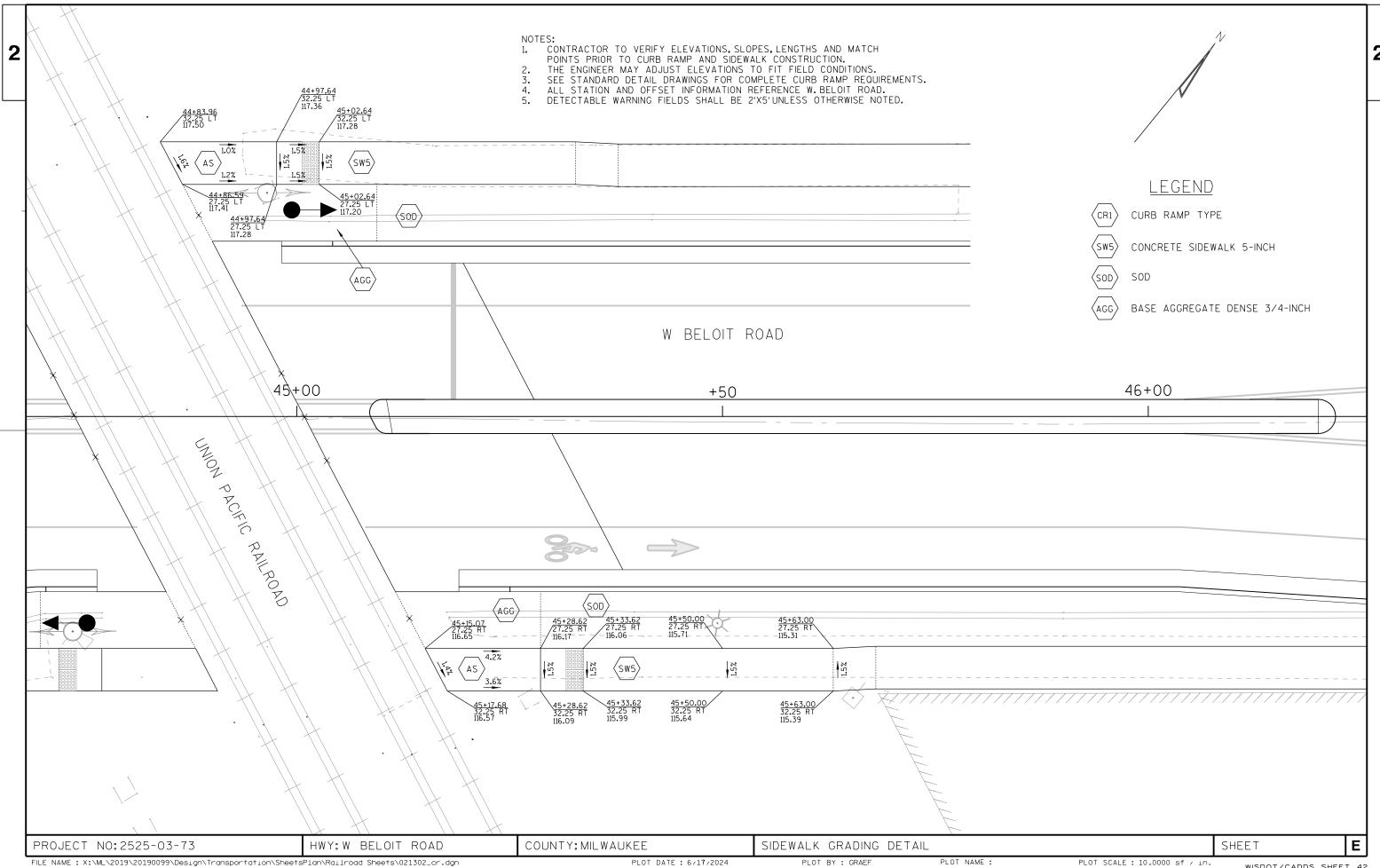
SHEET

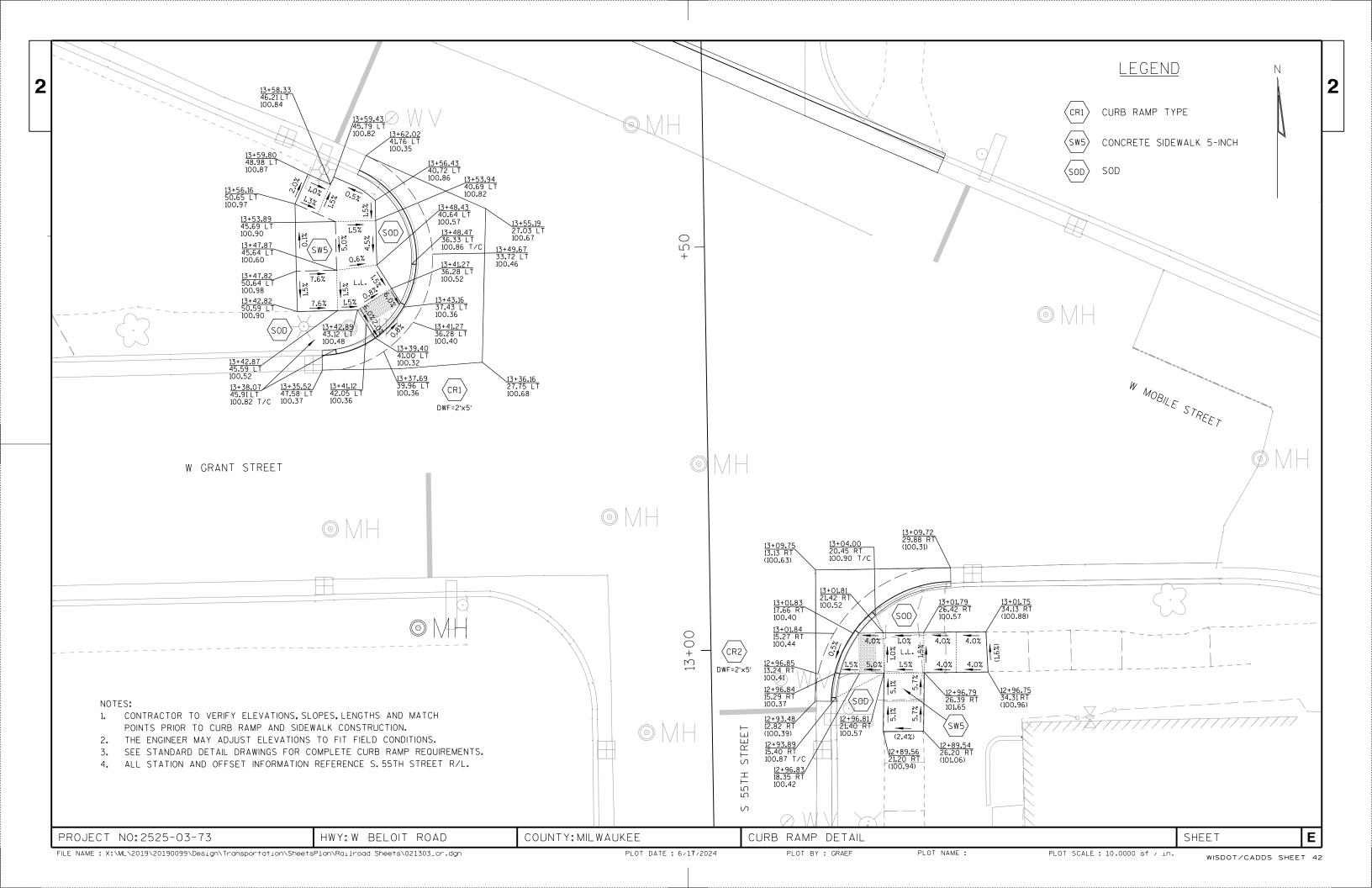
PLOT SCALE: 40.0000 sf / in.

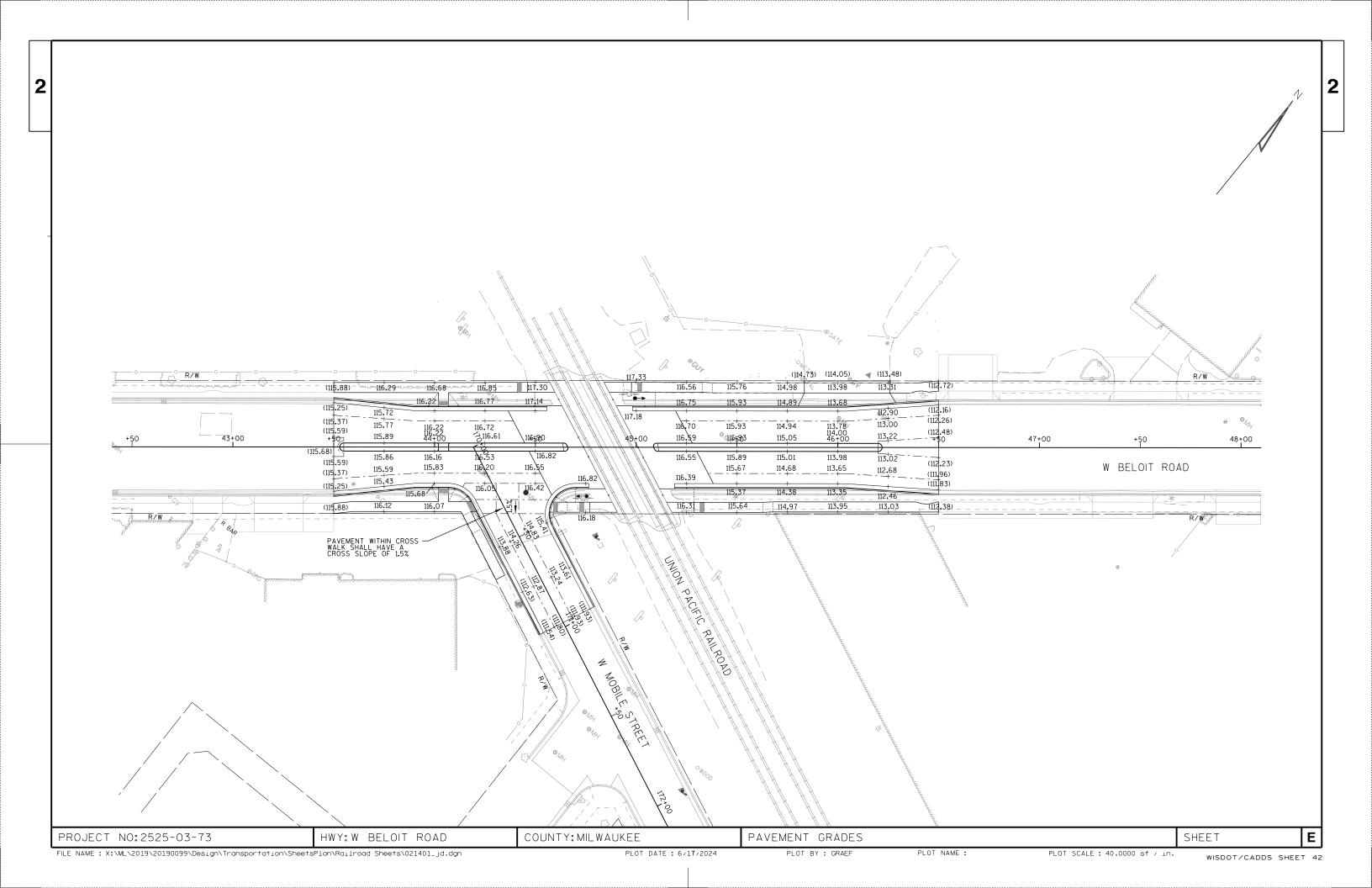
E

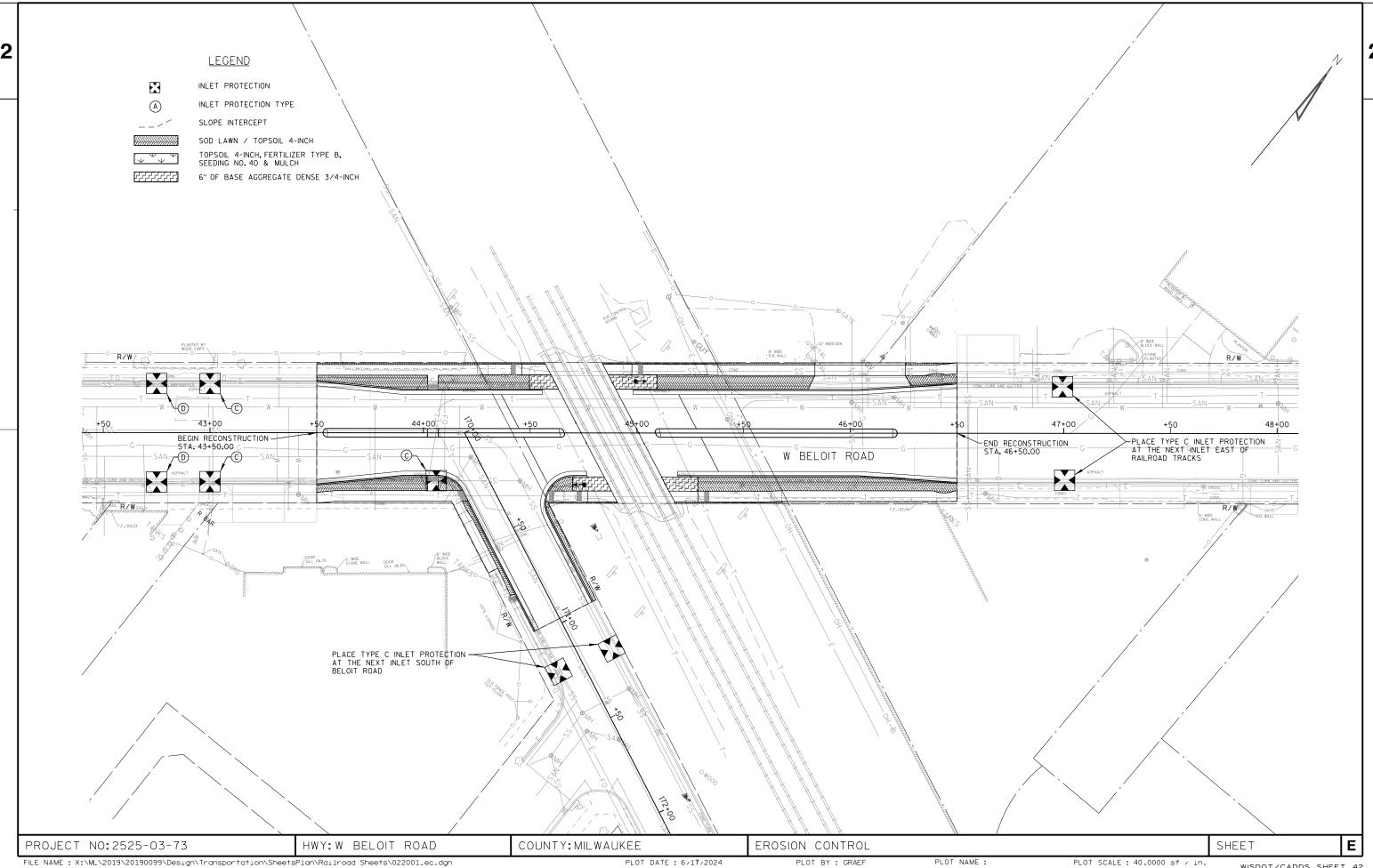


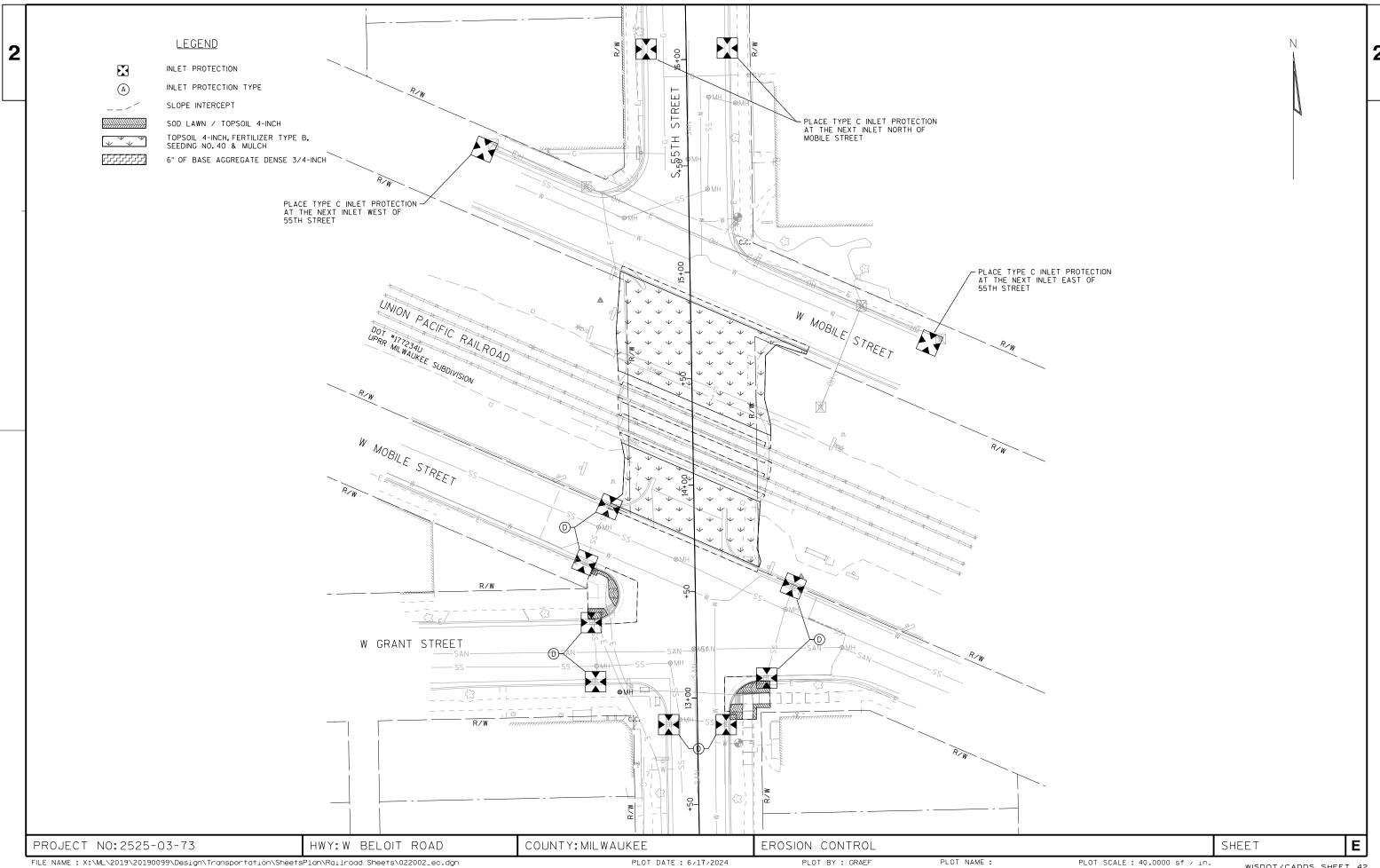


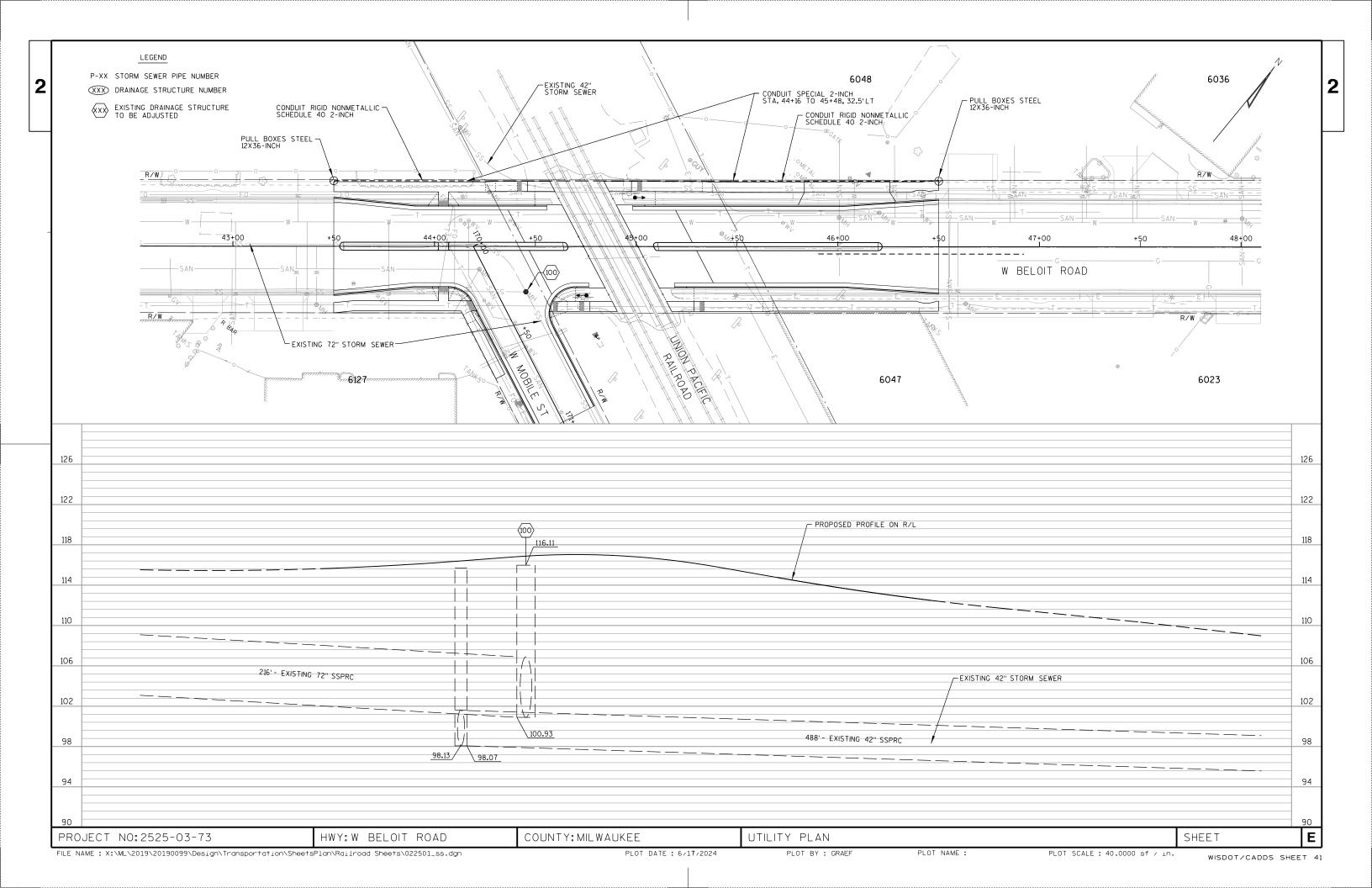


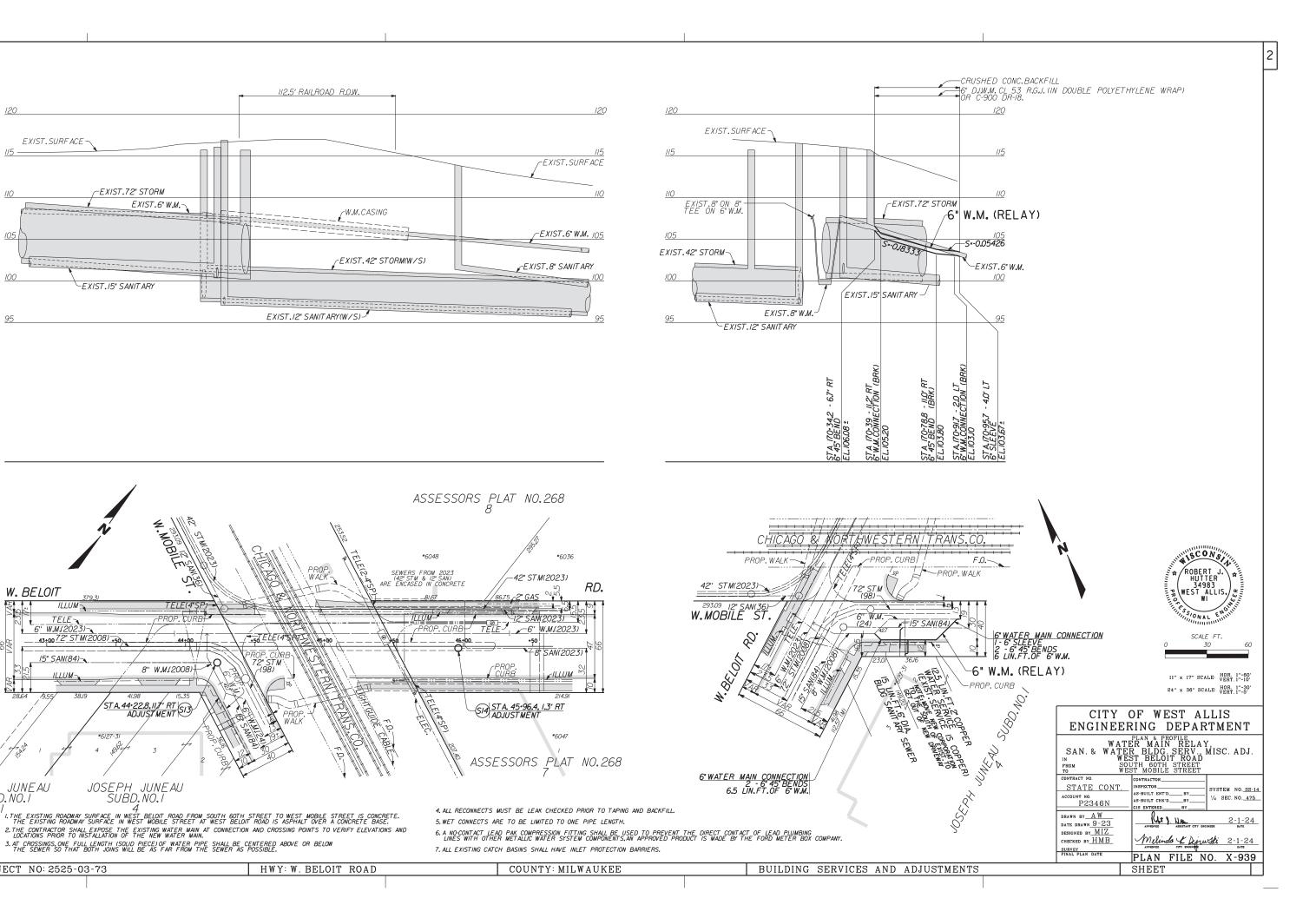












EXIST.SURFACE-

W. BELOIT

JOSEPH JUNEAU SUBD.NO.I

PROJECT NO: 2525-03-73

TLLUM

TELE 6" W.M.(2023

15" SAN(84)-

-EXIST.72" STORM

-EXIST.15" SANITARY

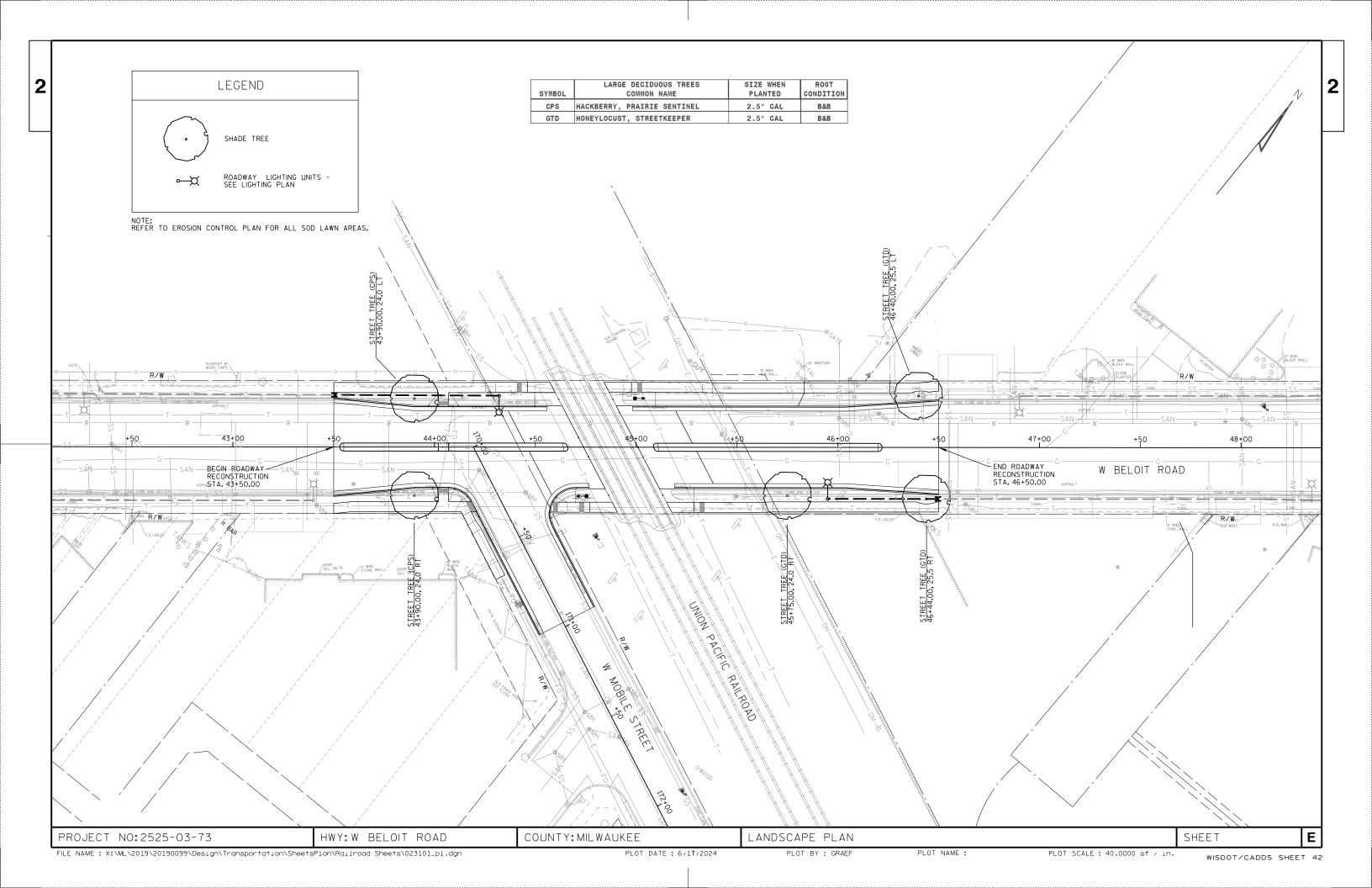
EXIST.6" W.M.-

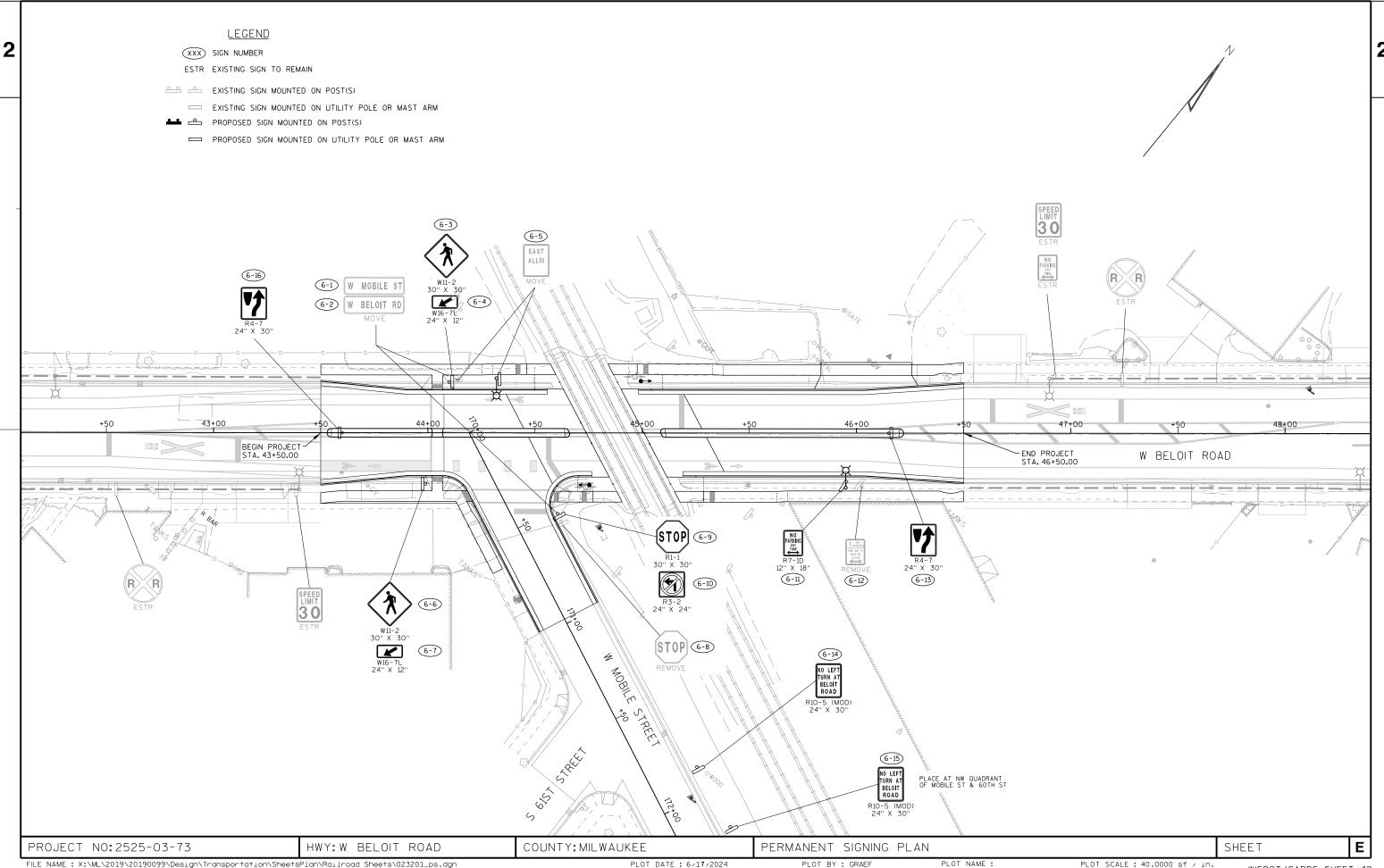
TELE(4"SP)

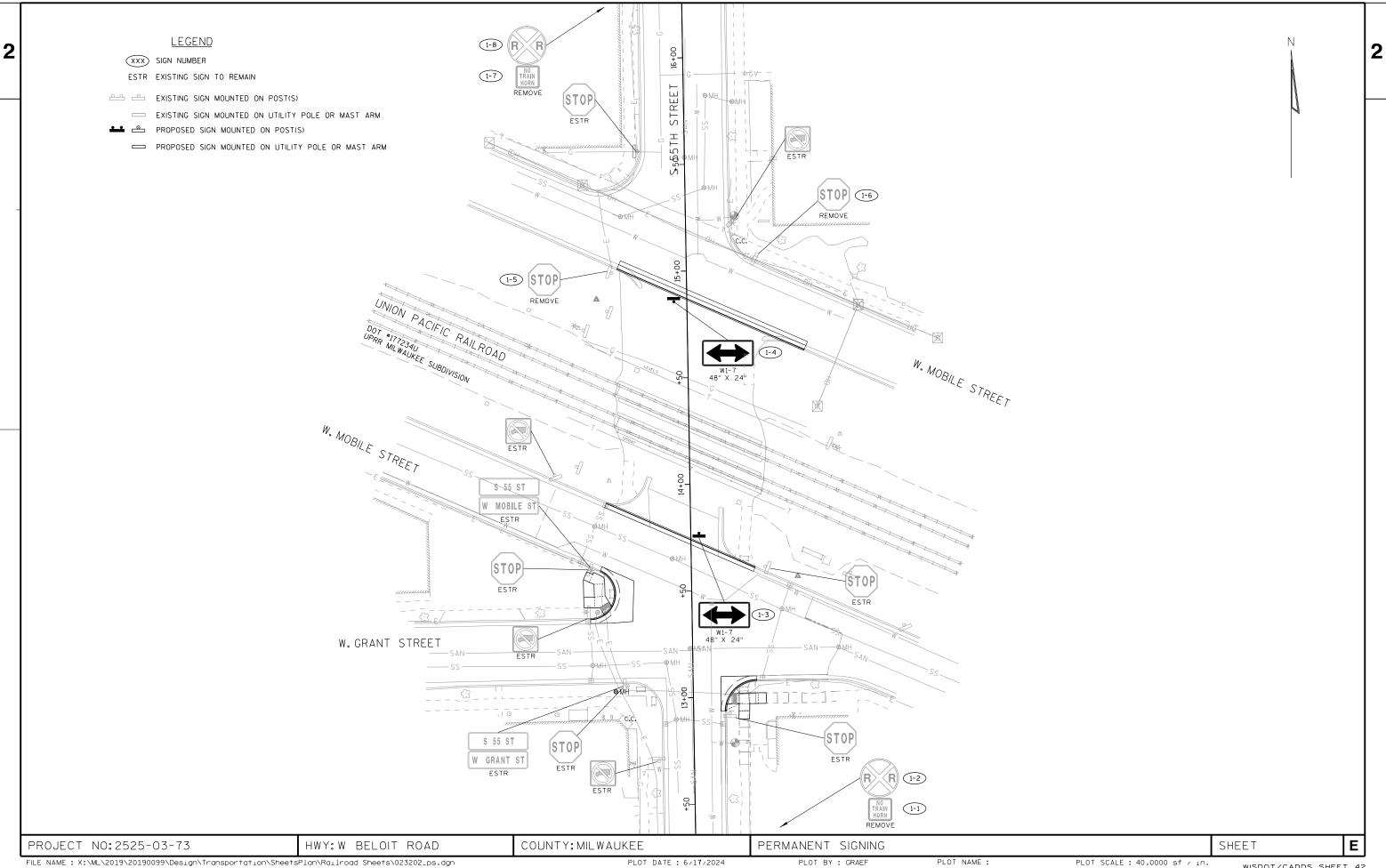
8" W.M.(2008)

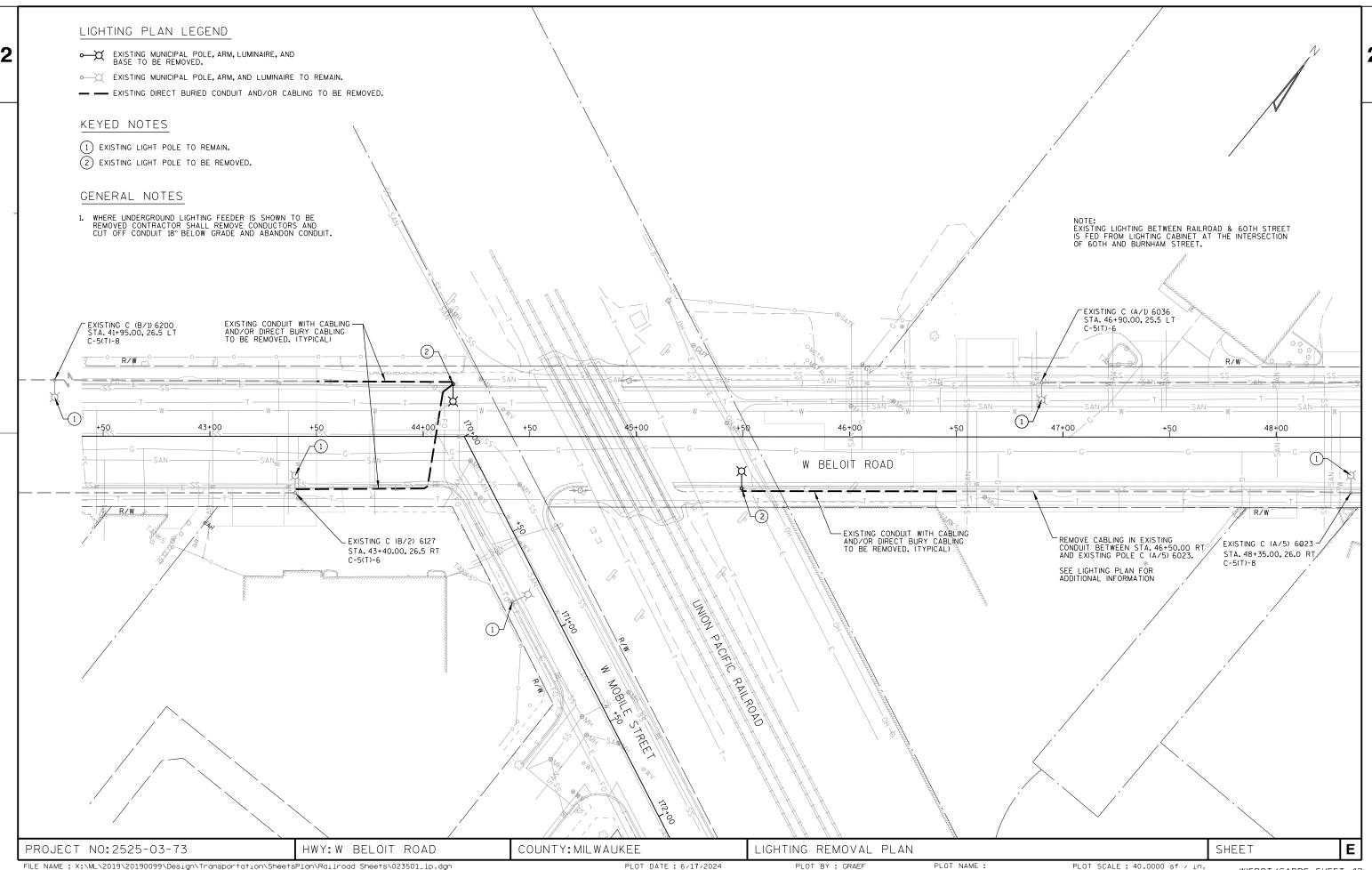
ST A. 44·22.8, II.7' RT SI3 ADJUST MENT

JOSEPH JUNEAU SUBD.NO.I



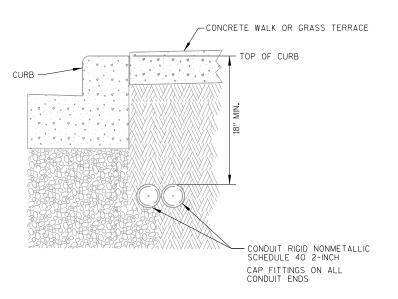






NOTE:

- 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.
- 2.) CONDUIT TO BE PLACED WITHIN A 6" AREA DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



TYPICAL CONDUIT INSTALLATION

PROJECT NO: 2525-03-73

HWY: W BELOIT ROAD

COUNTY: MILWAUKEE

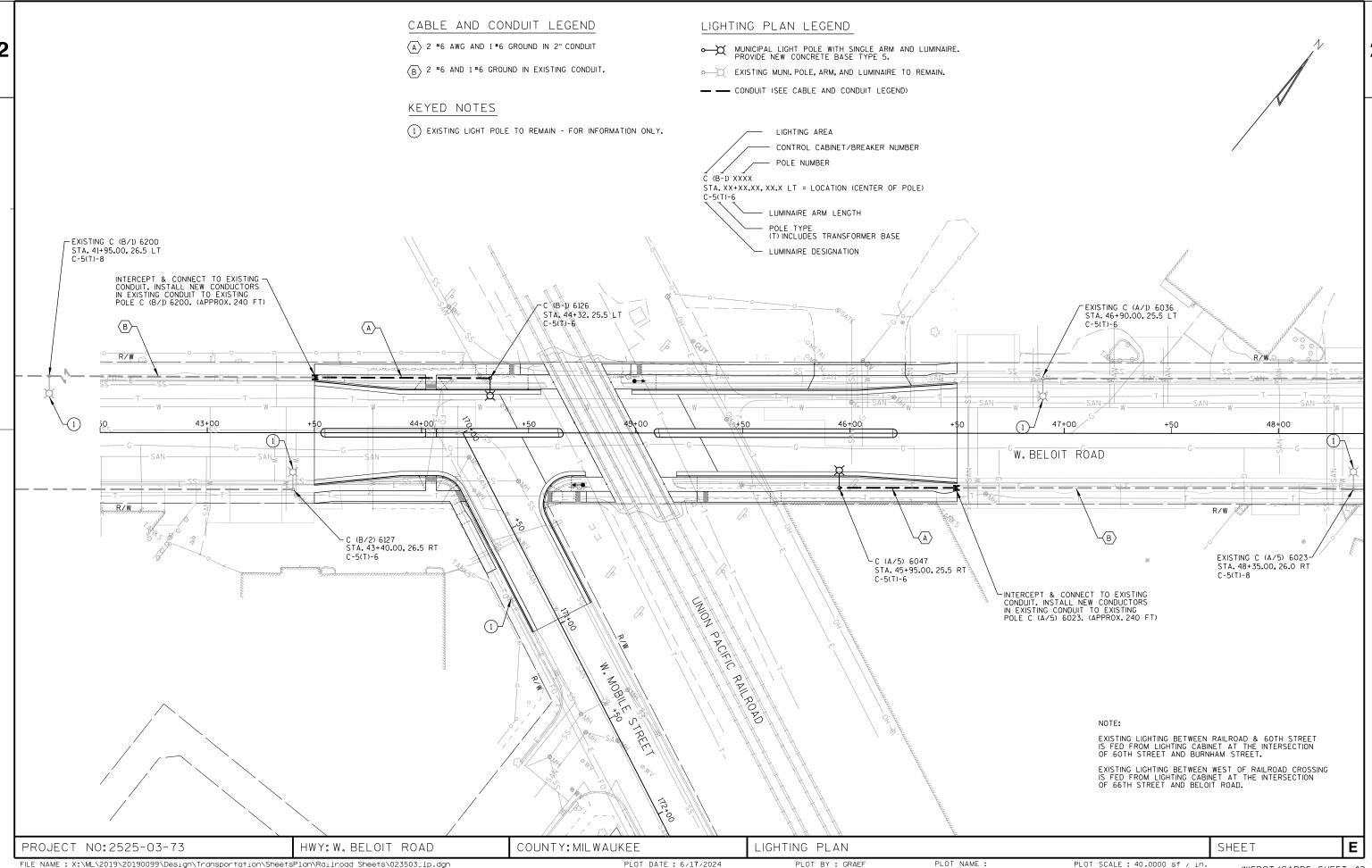
LIGHTING DETAILS

PLOT BY : GRAEF

SHEET

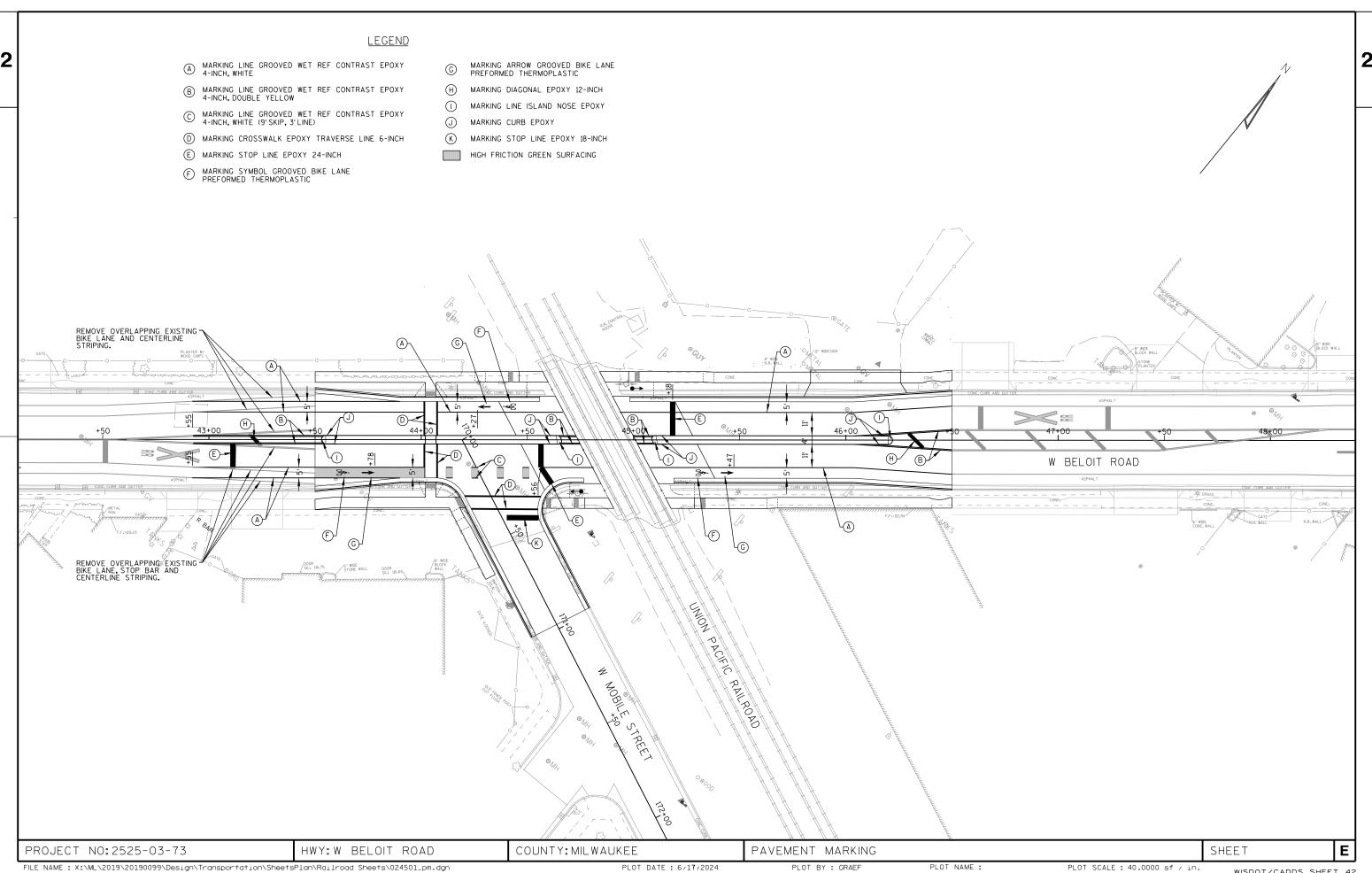
PLOT SCALE: 40.0000 sf / in.

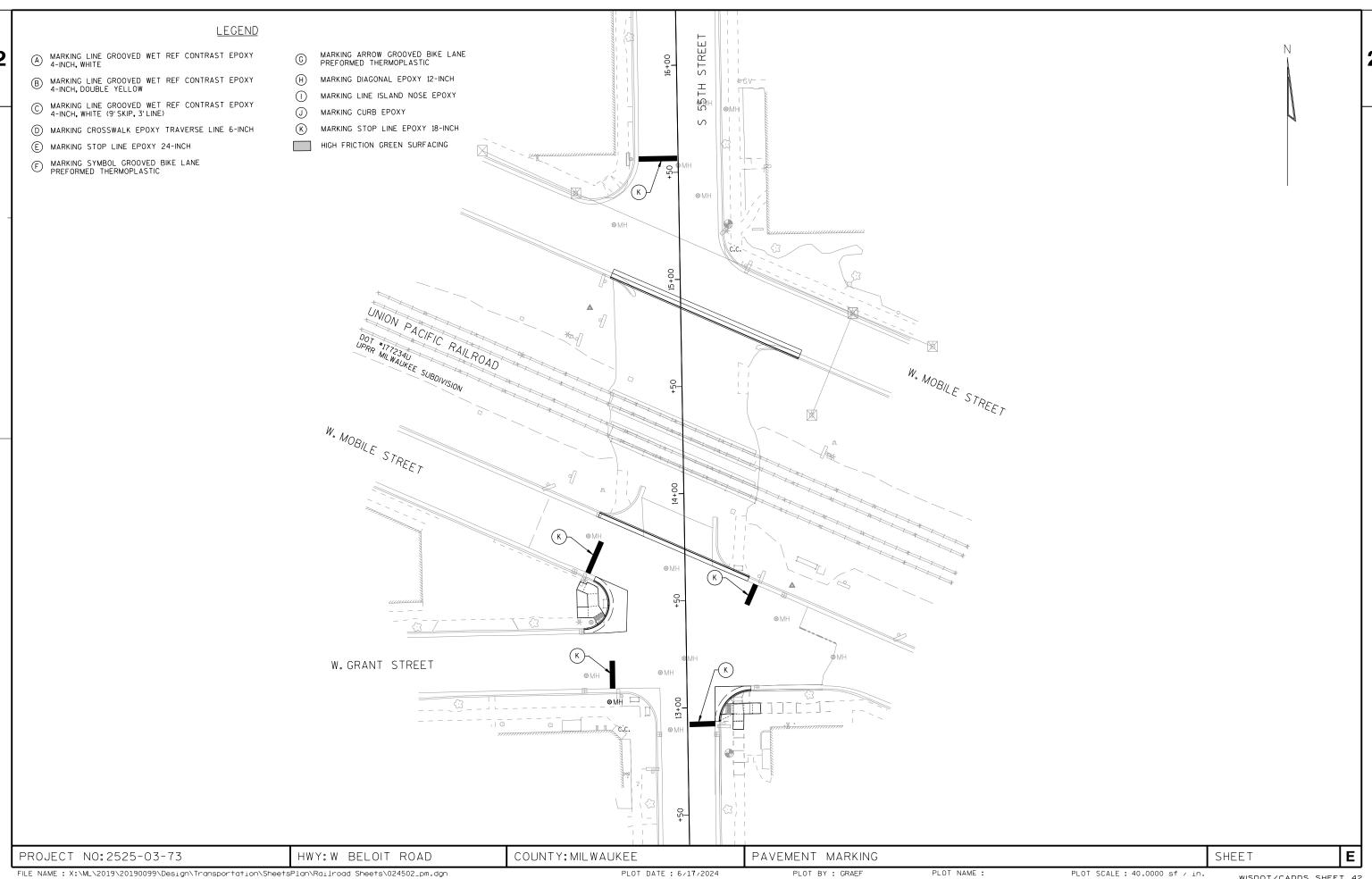
E

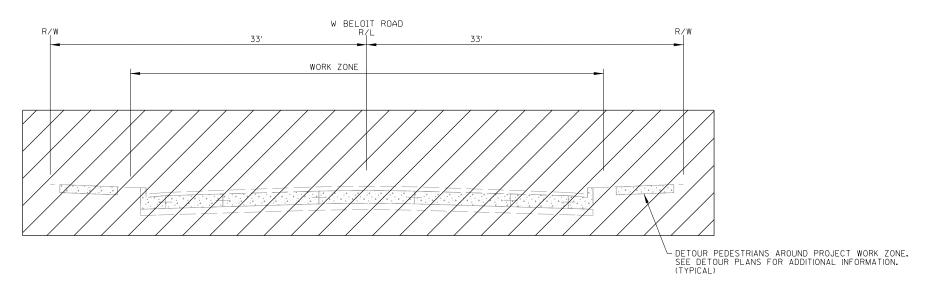


FILE NAME: X:\ML\2019\20190099\Design\Transportation\SheetsPlan\Railroad Sheets\023503_lp.dgn

PLOT DATE: 6/17/2024







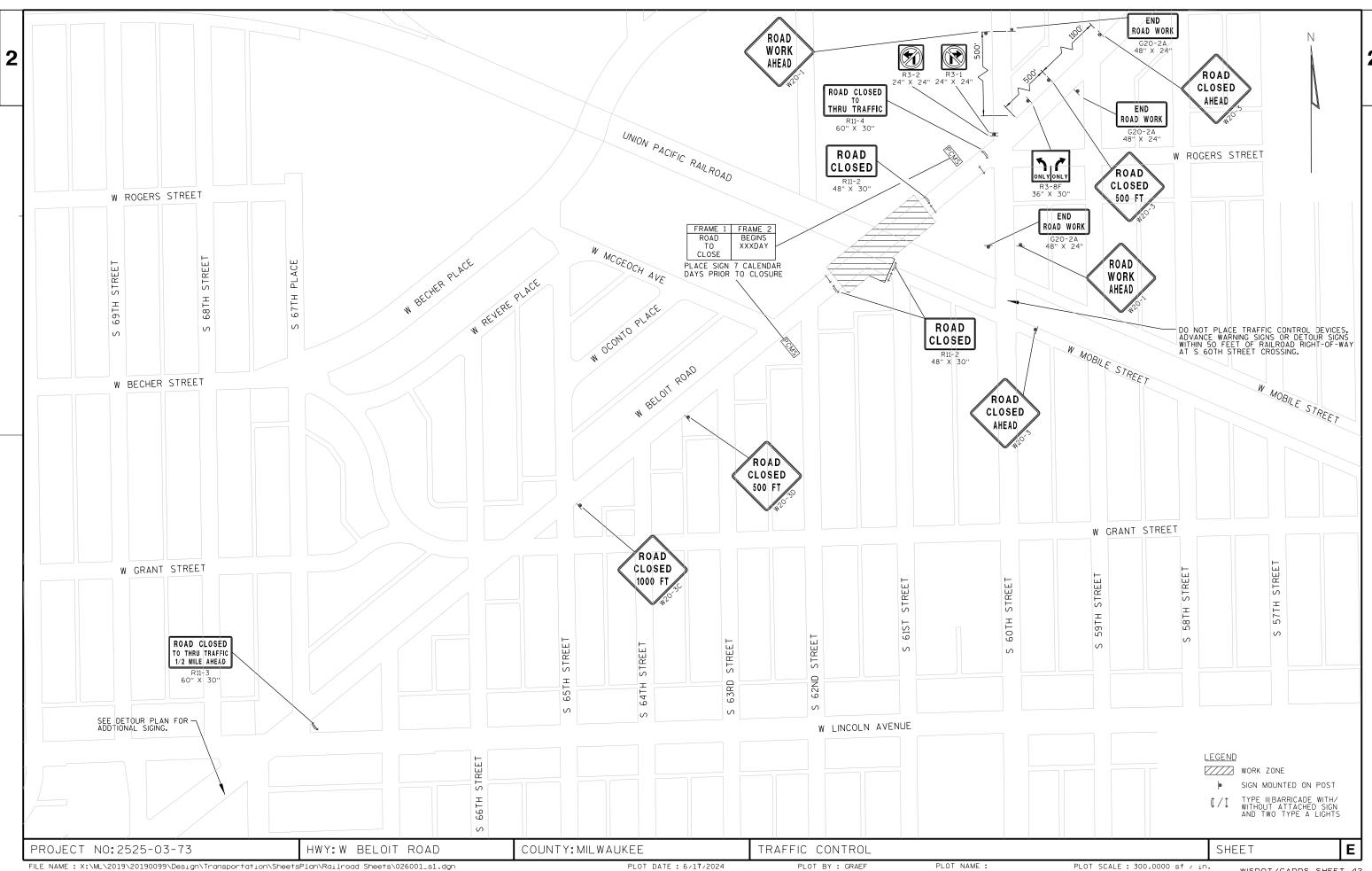
STAGING TYPICAL SECTION - ROADWAY

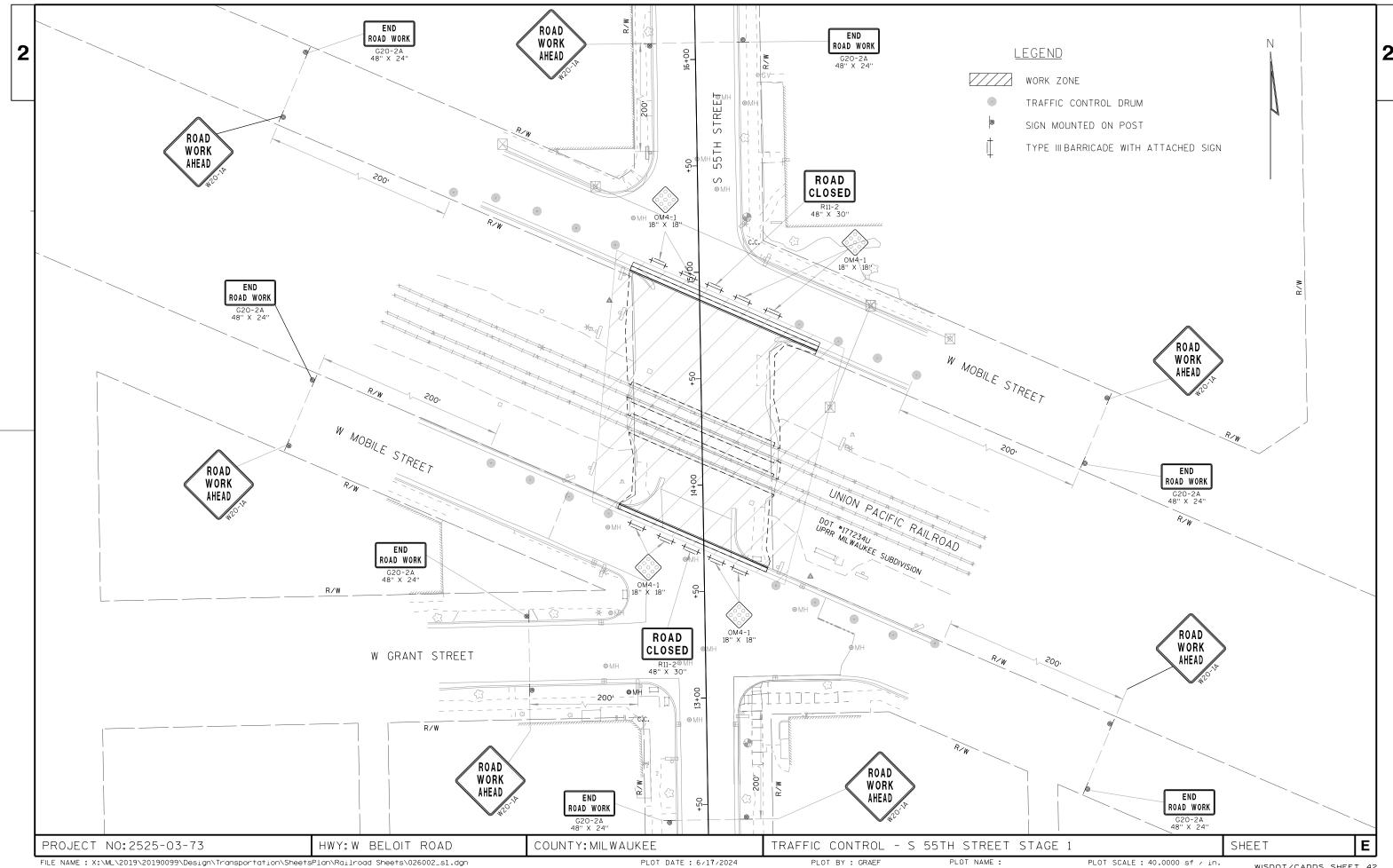
W BELOIT ROAD (DETOUR PEDESTRIANS AROUND PROJECT WORK ZONE)

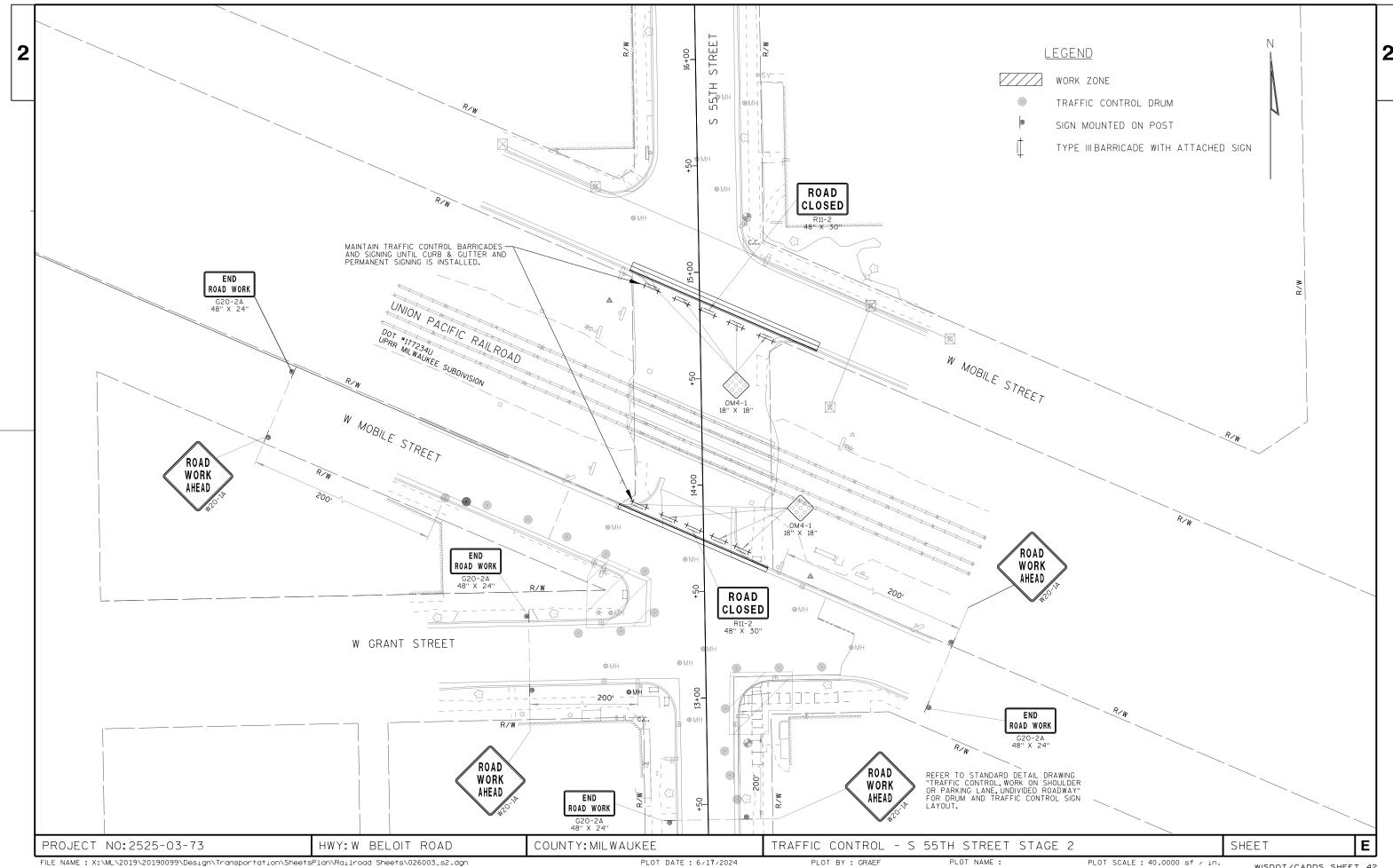
TRAFFIC CONTROL NOTES

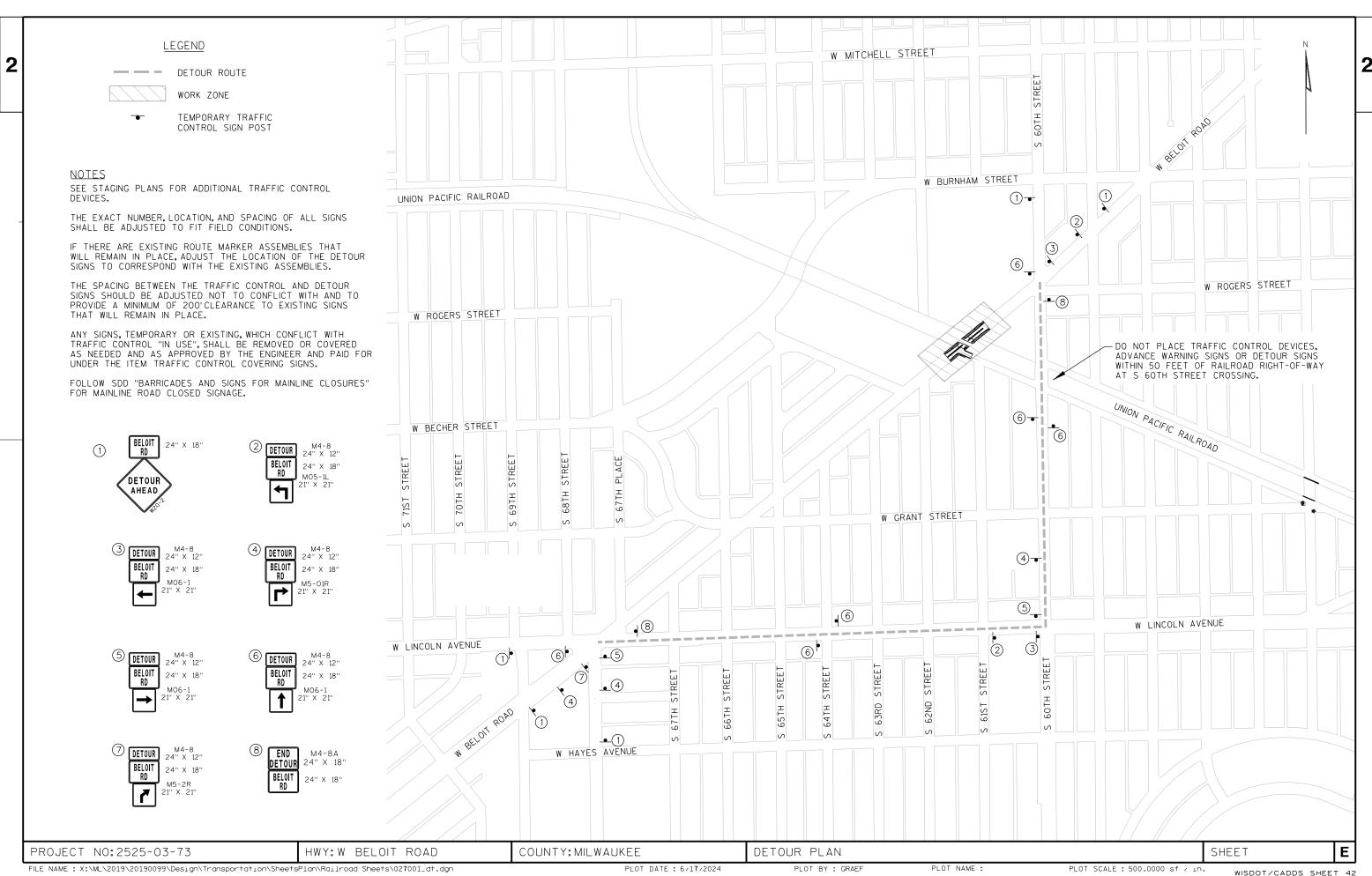
- 1. MAINTAIN ACCESS FOR EMERGENCY VEHICLES AND LOCAL TRAFFIC ON BELOIT ROAD AT ALL TIMES.
- 2. THE CONTRACTOR SHALL COVER ANY SIGN CONFLICTING WITH THE TRAFFIC CONTROL IN OPERATION AS NEEDED OR AS DIRECTED BY THE ENGINEER, COVERING OF SIGNS IS INCLUDED IN "TRAFFIC CONTROL COVERING SIGNS TYPE II" ITEM.
- 3. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY BARRICADES, SIGNS, LIGHTS, TEMPORARY MARKINGS, FLAGMEN, AND SAFETY DEVICES AS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 4. DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTOR'S METHODS OR SEQUENCES OF OPERATION.
- 5. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS
- 6. ALL SIGNS ARE 48" X 48" EXCEPT OTHERWISE NOTED.
- 7. ANY "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.
- 8. THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD LOCATIONS AS APPROVED BY THE ENGINEER IN THE FIELD.
- 9. BOTH STEADY BURN LIGHTS AND FLASHING LIGHTS SHALL BE ONE WAY WITH THE LIGHT SOURCE SHOWING TOWARDS ADJACENT APPROACHING TRAFFIC.
- 10. MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION, FOR PROPERTIES WITH MULTIPLE DRIVEWAYS, ONLY ONE DRIVEWAY CAN BE CLOSED/WORKED ON AT ANY TIME.

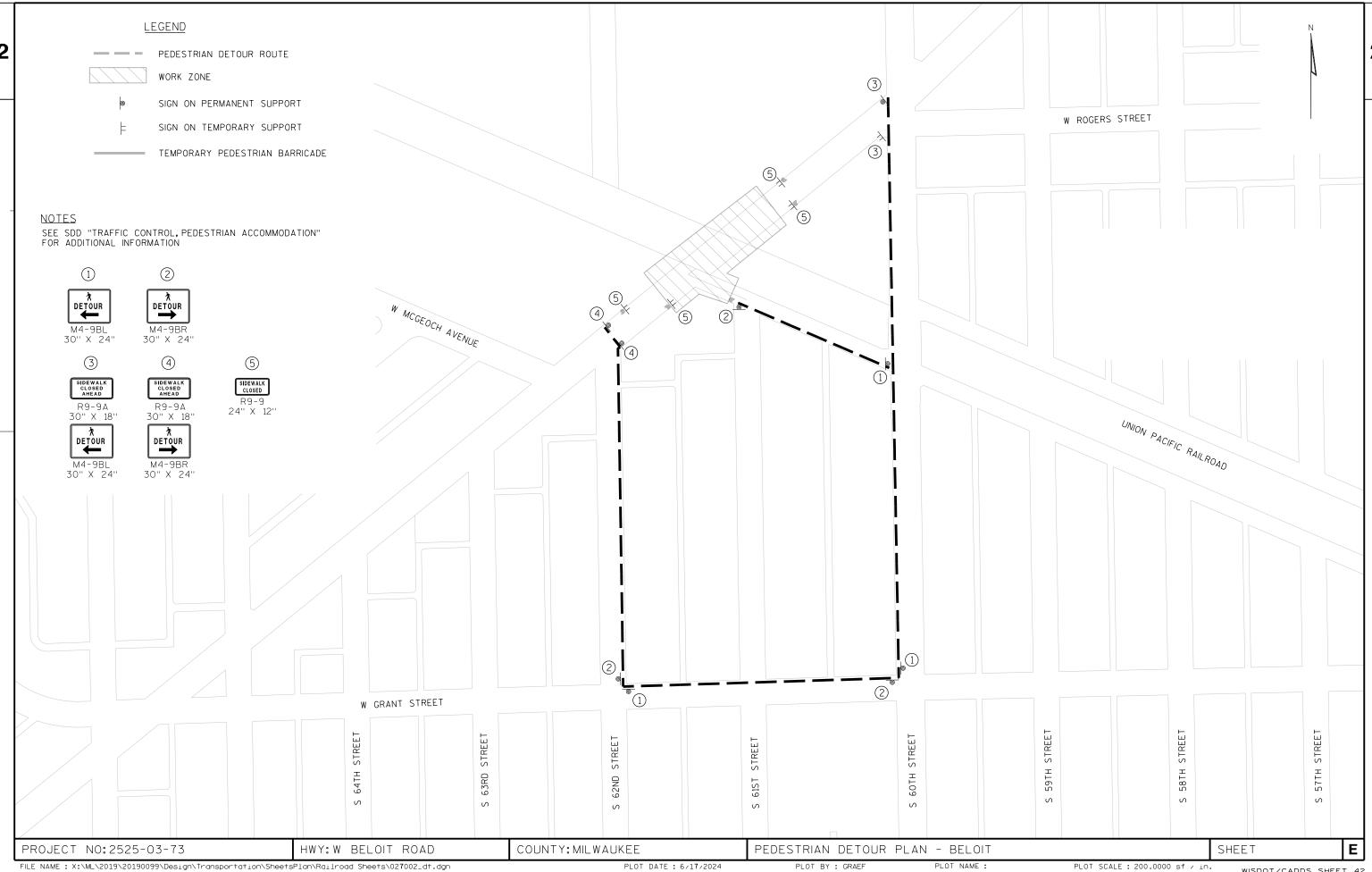
PLOT BY : GRAEF

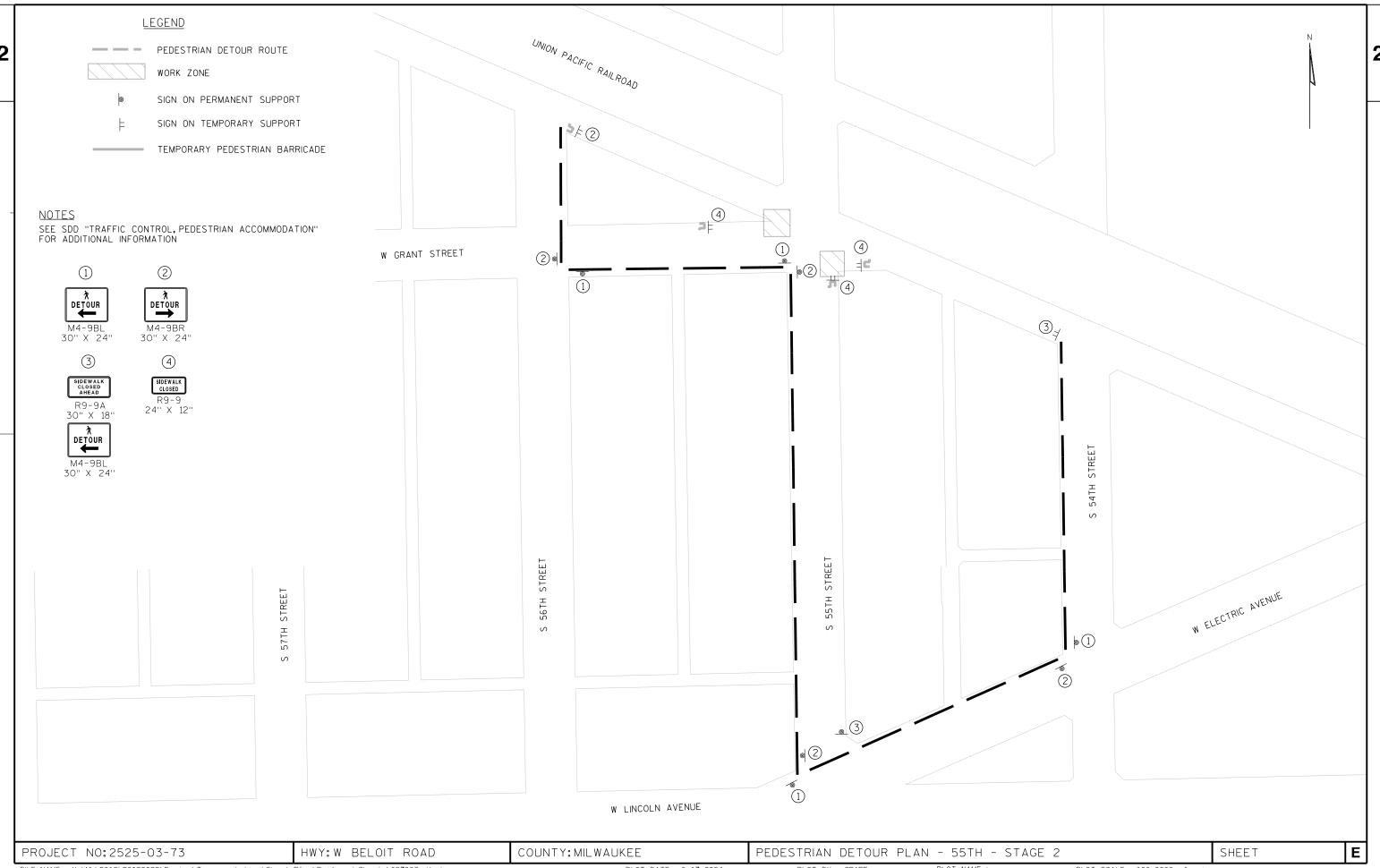


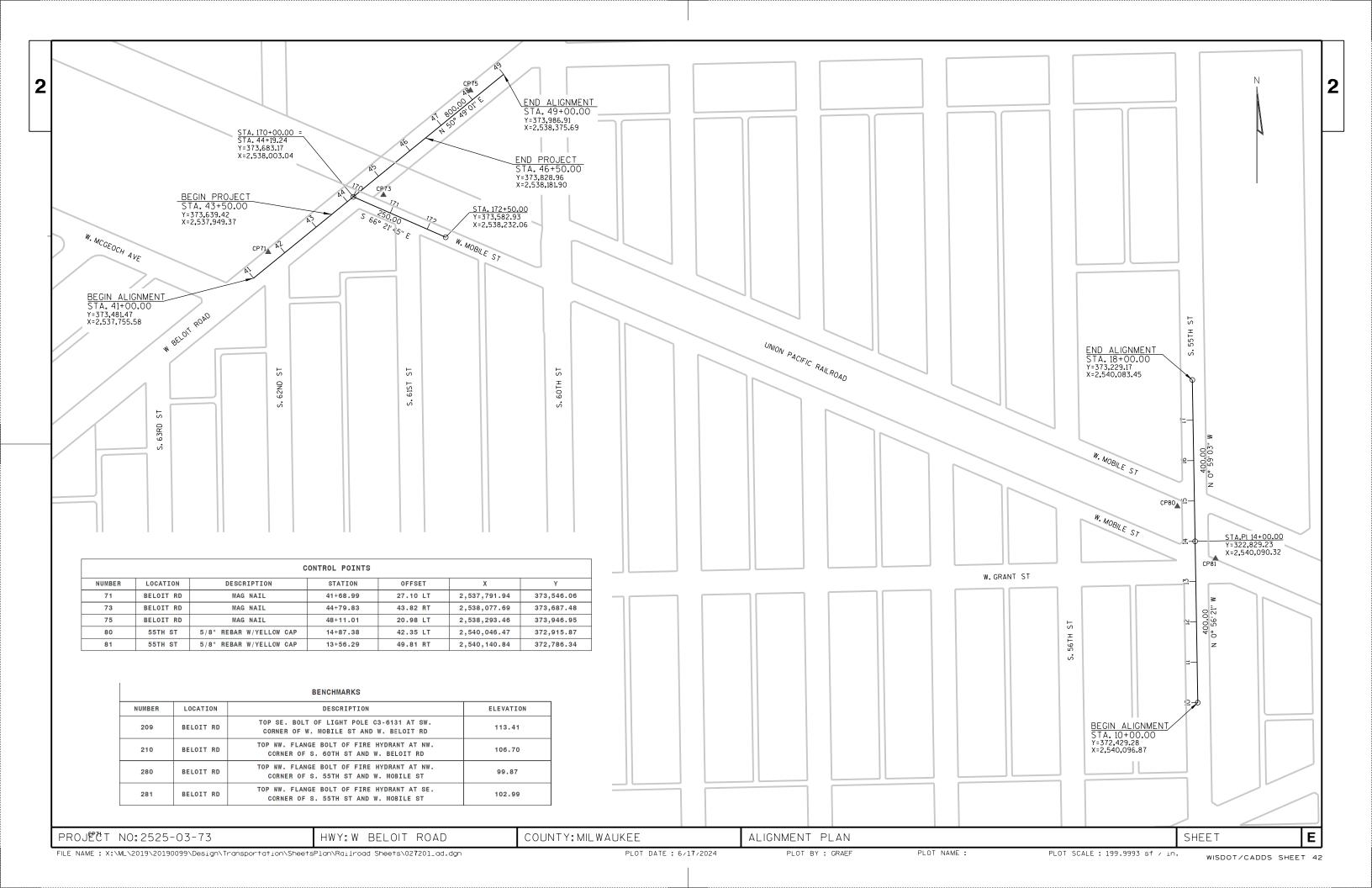












3 |

2525-03-73	

					2020-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	204.0100	Removing Concrete Pavement	SY	1,298.000	1,298.000	
0004	204.0110	Removing Asphaltic Surface	SY	106.000	106.000	
0006	204.0150	Removing Curb & Gutter	LF	160.000	160.000	
8000	204.0155	Removing Concrete Sidewalk	SY	383.000	383.000	
0010	204.0195	Removing Concrete Bases	EACH	2.000	2.000	
0012	204.0215	Removing Catch Basins	EACH	1.000	1.000	
0014	204.0245	Removing Storm Sewer (size) 01. 24-Inch	LF	40.000	40.000	
0016	204.9060.S	Removing (item description) 01. Lighting Units	EACH	2.000	2.000	
0018	205.0100	Excavation Common	CY	1,506.000	1,506.000	
0020	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	157.000	157.000	
0022	213.0100	Finishing Roadway (project) 01. 2525-03-73	EACH	1.000	1.000	
0024	305.0110	Base Aggregate Dense 3/4-Inch	TON	16.000	16.000	
0026	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	776.000	776.000	
0028	311.0110	Breaker Run	TON	817.000	817.000	
0030	415.0080	Concrete Pavement 8-Inch	SY	1,080.000	1,080.000	
0032	415.4100	Concrete Pavement Joint Filling	SY	1,080.000	1,080.000	
0034	416.0610	Drilled Tie Bars	EACH	55.000	55.000	
0036	416.0620	Drilled Dowel Bars	EACH	90.000	90.000	
0038	455.0605	Tack Coat	GAL	14.000	14.000	
0040	460.2000	Incentive Density HMA Pavement	DOL	60.000	60.000	
0042	460.6223	HMA Pavement 3 MT 58-28 S	TON	55.000	55.000	
0044	460.6424	HMA Pavement 4 MT 58-28 H	TON	28.000	28.000	
0046	465.0105	Asphaltic Surface	TON	8.000	8.000	
0048	601.0331	Concrete Curb & Gutter 31-Inch	LF	784.000	784.000	
0050	602.0410	Concrete Sidewalk 5-Inch	SF	2,605.000	2,605.000	
0052	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	101.000	101.000	
0054	602.0815	Concrete Driveway 7-Inch	SY	60.000	60.000	
0056	611.8110	Adjusting Manhole Covers	EACH	1.000	1.000	
0058	611.8120.S	Cover Plates Temporary	EACH	3.000	3.000	
0060	618.0100	Maintenance and Repair of Haul Roads (project) 01. 2525-03-73	EACH	1.000	1.000	
0062	619.1000	Mobilization	EACH	1.000	1.000	
0064	620.0300	Concrete Median Sloped Nose	SF	28.000	28.000	
0066	624.0100	Water	MGAL	8.000	8.000	
0068	625.0100	Topsoil	SY	1,127.000	1,127.000	
0070	627.0200	Mulching	SY	739.000	739.000	
0072	628.1104	Erosion Bales	EACH	30.000	30.000	
0074	628.1504	Silt Fence	LF	100.000	100.000	
0076	628.1520	Silt Fence Maintenance	LF	100.000	100.000	
0078	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000	
0800	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0082	628.7015	Inlet Protection Type C	EACH	11.000	11.000	
0084	628.7020	Inlet Protection Type D	EACH	10.000	10.000	
0086	628.7560	Tracking Pads	EACH	2.000	2.000	
8800	629.0210	Fertilizer Type B	CWT	0.700	0.700	
0090	630.0140	Seeding Mixture No. 40	LB	13.300	13.300	
0092	631.0300	Sod Water	MGAL	17.500	17.500	
0094	631.1000	Sod Lawn	SY	389.000	389.000	
0096	632.0101	Trees (species, root, size) 01. Hackberry, Prairie Sentinel, B&B, 2.5" Cal	EACH	2.000	2.000	
0098	632.0101	Trees (species, root, size) 02. Honeylocust, Streetkeeper, B&B, 2.5" Cal	EACH	3.000	3.000	

					2525-03-73	
Line	Item	Item Description	Unit	Total	Qty	
0100	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	15.000	15.000	
0102	637.2210	Signs Type II Reflective H	SF	30.700	30.700	
0104	637.2230	Signs Type II Reflective F	SF	32.500	32.500	
0106	638.2102	Moving Signs Type II	EACH	3.000	3.000	
0108	638.2602	Removing Signs Type II	EACH	8.000	8.000	
0110	638.3000	Removing Small Sign Supports	EACH	5.000	5.000	
0112	642.5001	Field Office Type B	EACH	1.000	1.000	
0114	643.0300	Traffic Control Drums	DAY	2,000.000	2,000.000	
0116	643.0420	Traffic Control Barricades Type III	DAY	1,790.000	1,790.000	
0118	643.0705	Traffic Control Warning Lights Type A	DAY	3,580.000	3,580.000	
0120	643.0900	Traffic Control Signs	DAY	11,140.000	11,140.000	
0122	643.0920	Traffic Control Covering Signs Type II	EACH	5.000	5.000	
0124	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000	
0126	643.5000	Traffic Control	EACH	1.000	1.000	
0128	644.1440	Temporary Pedestrian Surface Matting	SF	200.000	200.000	
0130	644.1810	Temporary Pedestrian Barricade	LF	180.000	180.000	
0132	645.0120	Geotextile Type HR	SY	75.000	75.000	
0134	645.0220	Geogrid Type SR	SY	1,426.000	1,426.000	
0136	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	1,306.000	1,306.000	
0138	646.6120	Marking Stop Line Epoxy 18-Inch	LF	84.000	84.000	
0140	646.7120	Marking Diagonal Epoxy 12-Inch	LF	14.000	14.000	
0142	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	131.000	131.000	
0144	646.8120	Marking Curb Epoxy	LF	40.000	40.000	
0146	646.8220	Marking Island Nose Epoxy	EACH	4.000	4.000	
0148	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	529.000	529.000	
0150	650.4500	Construction Staking Subgrade	LF	300.000	300.000	
0152	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	227.000	227.000	
0154	650.7000	Construction Staking Concrete Pavement	LF	300.000	300.000	
0156	650.8501	Construction Staking Electrical Installations (project) 01. 2525-03-73	EACH	1.000	1.000	
0158	650.9000	Construction Staking Curb Ramps	EACH	7.000	7.000	
0160	650.9500	Construction Staking Sidewalk (project) 01. 2525-03-73	EACH	1.000	1.000	
0162	650.9911	Construction Staking Supplemental Control (project) 01. 2525-03-73	EACH	1.000	1.000	
0164	650.9920	Construction Staking Slope Stakes	LF	300.000	300.000	
0166	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	333.000	333.000	
0168	652.0605	Conduit Special 2-Inch	LF	132.000	132.000	
0170	653.0115	Pull Boxes Steel 12x36-Inch	EACH	2.000	2.000	
0172	654.0105	Concrete Bases Type 5	EACH	2.000	2.000	
0174	655.0610	Electrical Wire Lighting 12 AWG	LF	246.000	246.000	
0176	655.0625	Electrical Wire Lighting 6 AWG	LF	1,491.000	1,491.000	
0178	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	2.000	2.000	
0180	657.0322	Poles Type 5-Aluminum	EACH	2.000	2.000	
0182	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	2.000	2.000	
0184	659.1125	Luminaires Utility LED C	EACH	2.000	2.000	
0186	659.5100.S	Lamp, Ballast, LED, Switch Disposal by Department	EACH	2.000	2.000	
0188	690.0150	Sawing Asphalt	LF	142.000	142.000	
0190	690.0250	Sawing Concrete	LF	369.000	369.000	
0192	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000	
0194	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	250.000	250.000	
0196	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000	

SPV.0165 Special 02. Concrete Median

Estimate Of Quantities

2525-03-73

872.000

SF

872.000

Page 3

Line	Item	Item Description	Unit	Total	Qty
0198	SPV.0060	Special 01. Round Steel Sign Post System	EACH	9.000	9.000
0200	SPV.0060	Special 02. Marking Symbol Grooved Bike Lane Preformed Thermoplastic	EACH	3.000	3.000
0202	SPV.0060	Special 03. Marking Arrow Grooved Bike Lane Preformed Thermoplastic	EACH	3.000	3.000
0204	SPV.0060	Special 04. Adjust Water Valve Box	EACH	1.000	1.000
0206	SPV.0060	Special 05. Water Main Connection 6-Inch	EACH	2.000	2.000
0208	SPV.0060	Special 06. Adjust Sanitary Manhole Frame	EACH	2.000	2.000
0210	SPV.0090	Special 01. Marking Stop Line Epoxy 24-Inch	LF	47.000	47.000
0212	SPV.0090	Special 02. Water Main Relay 6-Inch	LF	47.000	47.000
0214	SPV.0090	Special 03. Water Service Copper 2-Inch	LF	13.000	13.000
0216	SPV.0090	Special 04. Building Sanitary Sewer 6-Inch	LF	15.000	15.000
0218	SPV.0090	Special 05. Concrete Curb and Gutter Integral 31-Inch	LF	56.000	56.000
0220	SPV.0165	Special 01. High Friction Green Surfacing	SF	318.000	318.000

							REMOVING CONCRETE	SIDEWALK	
	REMOV	ING CONCRET	E PAVEMENT			STREET	FROM STATION	TO STATION	204.0155 SY
				204.0100	_	W. BELOIT RD	43+50 -	46+50	305
STRE		FROM	T0	SY		S. 55TH STREET	12+90 -	15+10	78
W. BELO			- 46+50	1,160	_			PROJECT TOTAL	
<u>S. 55TH</u>	STREET	12+90	- 15+10 PROJECT TOTAL	138 1,298					
							REMOVING CATCH	BASINS	
									204.0215
						STREET	STATION	OFFSET	EACH
						W. BELOIT R		23' RT	1
	REMOVI	ING ASPHALTI	IC SURFACE			PROJECT	TOTAL		ı
STRE W. BELO S. 55TH	OIT RD 4	FROM 43+50 - 12+90 -		204.0110 SY 0 106 106		STREET W. BELOIT RD		20 ON LOCATION	04.0245.01 24-INCH LF 40 40
							LIGHTING REMO	VAL	
							204.0195	204.9060.S	659.5100.S
	REMO	OVING CURB (& GUTTER	204.0150			REMOVING CONCRETE BASES	REMOVING LIGHTING UNITS	LAMP, BALLAST, LED, SWITCH DISPOSAL BY DEPARTMENT
STRE	ET FROM	STATION	TO STATION	LF	STATI	ON OFFSET	EACH	EACH	EACH
W. BELO	OIT RD 4	3+50 -	46+50	116	44+1	4 LT	1	1	1
S. 55TH	STREET 1	2+90 -	- 15+10	44				•	•
			PROJECT TOTAL:	160	45+4	9 RT TOTA	1 LS 2	2	2
									LL ITEMS CATEGORY 001

_	j		
`			

								EXPANDED			
			205.	0100				FILL			
			EXCAVATI	ON COMMON				(6)			
			(1)				CY	MASS		
				EBS	SALVAGED/UNUSABLE	AVAILABLE		FACTOR	ORDINATE		
			CUT	EXCAVATION	PAVEMENT MATERIAL	MATERIAL	UNEXPANDED		+/-		
			(2)	(3)	(4)	(5)	FILL		(7)	WASTE	
	FROM/TO STATION	LOCATION	CY	CY	CY	CY	CY	1.11	CY	CY	COMMENT
	43+50 to 46+50	BELOIT ROAD	1,191	0	393	799	0	0	799	799	
		55TH STREET	315	0	116	199	239	266	-66	-	PAVEMENT & BASE REMOVAL
GRAND TOTAL			1,506	0	508	998	239	266	733		
	TOTAL CO	MMON EXC	1,	506							

NOTES:

- (1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (3) EBS EXCAVATION TO BE BACKFILLED WITH BREAKER RUN.
- (4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (5) AVAILABLE MATERIAL = CUT SALVAGED/UNUSUABLE PAVEMENT MATERIAL
- (6) EXPANDED FILL FACTOR = 1.11
- (7) THE MASS ORDINATE + OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 2525-03-73 HWY: W. BELOIT ROAD COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET:

FILE NAME : ______ PLOT BY : _____ PLOT NAME : _____ PLOT NAME : _____ PLOT SCALE : 1:1

	EXCAVATION	, HAULING,	AND DISP	OSAL OF PE	TROLEUM CONTA	MINATED SOIL			BRE	AKER RU	N		
													311.0110
						205.0501.S		STREET	STATIO	ON	T0	STATION	TON
	STREET	STATION	T0	STATION	OFFSET	TON	V	V. BELOIT RD	43+50)	-	46+50	817
	W. BELOIT RD	43+50	-	44+20	RT	157	S.	55TH STREET	12+90	ס	-	15+10	0
_				PR	DJECT TOTAL	157					PR	OJECT TOTAL	817
		FINIS	HING ROA	DWAY (2525	-03-73)					IODETE S	O A VEMENT		
				2	13.0100				CON	ICKETE P	PAVEMENT		
		LOCATION			EACH							415.0080	415.4100
		. BELOIT RD										CONCRETE	CONCRETE
		PROJECT 1	OTAL		1							PAVEMENT	PAVEMENT
								STREET	STATION TO	STAT	LTON	8-INCH Sy	JOINT FILLING SY
								W. BELOIT RD	43+50 -	46+		1,053	1,053
								S. 55TH STREET	12+90 -	15+		2 7	2 7
		2,102		E DENSE 3/4		305.0110							
	STREET		STATION	TO	STATION	TON							
	W. BELOIT RD		43+50	-	46+50	16							
	S. 55TH STREET		12+90	-	15+10	0			CONCRETE D	RTVEWAY	/ 7.TNCH		
				ļ	PROJECT TOTAL	16					, , , , , , , , , , , , , , , , , , , ,		
												602. CONC DRIV 7-I	RETE EWAY
								STREET	STATION	Т0	STATI		
		BASE AG	GREGATE	DENSE 1 1	/4-INCH			W. BELOIT RD	43+50	-	46+5		
								S. 55TH STREE	ET 12+90	-	15+1	0 0	<u>. </u>
	0705				074770	305.0120				P	ROJECT	TOTAL 6	<u> </u>
	STREET W RELOTT BD		STATION 42+50	T0	STATION	TON 722							
	W. BELOIT RD		43+50	-	46+50	722							
	S. 55TH STREET		12+90	-	15+10	54							
					PROJECT TOTAL	776							MS CATEGORY (OTHERWISE NO

		DRILLED TIE I	BARS					CONCRETE	CURB & GL		
				416.0610						601.0331 CONCRETE CURB	SPV.0090.05 Concrete curb
	STREET	STATION	TO STATION							AND GUTTER	AND GUTTER
_	W. BELOIT RD	43+50	- 46+50	0						31-INCH	INTEGRAL 31-INCH
	S. 55TH STREET	12+90	- 15+10	55		STREET	STATION		TATION	LF	LF
	PROJECT TOTAL			55		W. BELOIT RD	43+50		16+50	613	0
						S 55TH ST	12+90		5+10	171	56
								PROJE	CT TOTAL	784	56
		DRILLED DOWEL	_ BARS				(CONCRETE S	IDEWALK 5	5-INCH	
				416.0620							602.0410
	STREET	STATION	TO STATION	EACH		STREET		STATION	T0	STATION	SF
-	W. BELOIT ROAD	43+50	- 46+50	90		W. BELOIT		43+50	-	46+50	2,310
_	S. 55TH STREET	12+90	- 15+10	0		S. 55TH ST	REET	12+90	-	15+10	295
	PROJECT TOTAL			90						PROJECT TOTAL	2,605
		ASPHALT		455,0605	465.0105		CURB	RAMP DETE	CTABLE WA	RNING FIELD	
		460.6223 HMA	460.6424 HMA	455.0605 Tack coat	ASPHALTIC						YELLOW 602.0505
		PAVEMENT	PAVEMENT	IAUN UUAI	SURFACE	STR	EET	STATION	ı TO	STATION	SF
					John AVE	W. BEL		43+50	-	46+50	81
		3 MI 58-28 S		GAL	TON	S. 55		12+90	-	15+10	20
STREET	STATION TO STATION	3 MT 58-28 S N TON	TON				ECT TOTAL				101
STREET W. BELOIT RD	STATION TO STATION 42+50 - 48+00	N TON	TON 25	13	8	11100					
		N TON 50			8 0	1 11001					
W. BELOIT RD	42+50 - 48+00	N TON 50 5	25	13	_						
W. BELOIT RD	42+50 - 48+00 12+90 - 15+10	N TON 50 5	25 3	13 1	0					ALL IT	EMS CATEGORY 00

ı	
ı	~
ı	_5
ı	U

CONCRETE MEDIAN & CONCRETE MEDIAN SLOPED NOSE

ADJUSTING MANHOLE COVERS

			611.8110
STREET	STATION	OFFSET	EACH
W. BELOIT RD	44+45	23' RT	1
PROJECT TOTA	L		1

				CONCRETE	
				MEDIAN	CONCRETE
				SLOPE NOSE	MEDIAN
				620.0300	SPV.0165.02
STREET	STATION	TO	STATION	SF	SF
W. BELOIT RD	43+50	-	46+50	28	872
S. 55TH STREET	12+90	-	15+10	0	0
PROJECT TOTAL			_	28	872

COVER PLATES TEMPORARY

			611.8120.S
STREET	STATION	OFFSET	EACH
W. BELOIT RD	44+45	23' RT	1
W. BELOIT RD	44+23	12' RT	1
W. BELOIT RD	45+96	1' RT	1
PROJECT TOTA	\L		3

WATER

				624.0100
STREET	STATION	TO	STATTION	MGAL
W. BELOIT ROAD	43+50	-	46+50	8
S. 55TH STREET	12+90	-	15+10	0
		Р	ROJECT TOTAL	8

MAINTENANCE AND REPAIR OF HAUL ROADS ID 2525-03-73

	CAT 0020
	618.0100
LOCATION	EACH
W. BELOIT ROAD & S 55TH STREET	1
PROJECT TOTAL	1

TOPSOIL

				625.0100
STREET	STATION	T0	STATION	SY
W. BELOIT ROAD	43+50	-	46+50	285
S. 55TH STREET	12+90	-	15+10	617
UNDISTRIBUTED				225
			PROJECT TOTAL	1,127

ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 2525-03-73

HWY: W. BELOIT ROAD

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET:

PLOT DATE :

DI OT NAME :

	MULCHING	INLET PROTECTION
3	STREET SY W. BELOIT ROAD 43+50 - 46+50 0 S. 55TH STREET 12+90 - 15+10 591 UNDISTRIBUTED 12+90 - 15+10 148 739	628.7015 628.7020 INLET INLET PROTECTION PROTECTION TYPE C TYPE D STREET STATION TO STATION EACH EACH W. BELOIT ROAD 43+50 - 46+50 7 2 S. 55TH STREET 12+90 - 15+10 4 8
	TEMPORARY SETTLING BASINS	PROJECT TOTAL 11 10
	628.1104 645.0120 EROSION BALES GEOTEXTILE TYPE HR STREET EACH SY UNDISTRIBUTED 30 75 PROJECT TOTAL 30 75	TRACKING PADS 628.7560 STREET LOCATION EACH
	SILT FENCE	W. BELOIT RD UNDISTRIBUTED 2 PROJECT TOTAL 2
	628.1504 628.1520 SILT FENCE SILT FENCE MAINTENANCE STREET LF	
	PROJECT TOTAL 100 100	RESTORATION QUANTITIES
	EROSION CONTROL MOBILIZATIONS	629.0210 630.0140 631.0300 631.1000 FERTILIZER SEEDING SOD SOD TYPE B MIXTURE WATER LAWN NO. 40
	628.1905 628.1910 MOBILIZATIONS MOBILIZATIONS EROSION CONTROL EMERGENCY EROSION CONTROL LOCATION EACH EACH UNDISTRIBUTED 1 2	STREET STATION TO STATTION CWT LB MGAL SY W. BELOIT ROAD 43+50 - 46+50 0.2 0.0 12.8 285 S. 55TH STREET 12+90 - 15+10 0.4 10.6 1.2 26 UNDISTRIBUTED 12+90 - 15+10 0.1 2.7 3.5 78 PROJECT TOTAL 0.7 13.3 17.5 389
	PROJECT TOTAL 1 2	ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED
	PROJECT NO: 2525-03-73 HWY: W. BELOIT ROAD COUNTY: MIL	WAUKEE MISCELLANEOUS QUANTITIES SHEET: E

PLOT DATE : _

PLOT NAME : __

PLOT BY : _

PLOT SCALE : 1:1

FILE NAME : _

TREE PLANTING

CATEGORY	BID NUMBER	SYMBOL	LARGE DECIDUOUS TREES COMMON NAME	SIZE WHEN PLANTED	ROOT CONDITION	UNIT	TOTALS
0010	632.0101.01	CPS	HACKBERRY, PRAIRIE SENTINEL	2.5" CAL	B&B	EA	2
0010	632.0101.02	GTD	HONEYLOCUST, STREETKEEPER	2.5" CAL	B&B	EA	3

B&B: BALLED AND BURLAPED

MISCELLANEOUS LANDSCAPING

632.9101

LANDSCAPE PLANTING SURVEILLANCE AND CARE CYCLES

LOCATION	EACH
PROJECT ID 2525-03-73	15
TOTAL:	15

TYPE II SIGNS

								637.2210	637.2230	638.2102	638.2602	638.3000	SPV.0060.01	
								SIGNS	SIGNS	MOVING	REMOVING	REMOVING	ROUND	
								TYPE II	TYPE II	SIGNS	SIGNS	SMALL SIGN	STEEL	
								REFLECTIVE	REFLECTIVE	TYPE II	TYPE II	SUPPORTS	SIGN POST	
								H	F				SYSTEM	PEMPA
SIGN NO.	LOCATION	STATIO		SIGN CODE	MESSAGE	_	IZE	SF	SF	EACH	EACH	EACH	EACH	REMARKS
1-1	55TH STREET	11+87	RT	-	-	-	-	-	-	-	1	-	-	•
1-2	55TH STREET	11+87	RT	-	-	-	-	-	-	-	1	1	-	•
1-3	55TH STREET	13+77	RT	W1 - 7	-	48	X 24	-	8.0	-	-	-	1	•
1 - 4	55TH STREET	14+85	LT	W1-7	-	48	X 24	-	8.0	-	-	-	1	•
1-5	55TH STREET	15+00	RT	-	-	-	-	-	-	-	1	1	-	•
1-6	55TH STREET	15+06	RT	-	-	-	-	-	-	-	1	1	-	-
1-7	55TH STREET	16+82	LT	-	-	-	-	-	-	-	1	-	-	REMOVE FROM LIGHT POLE
1-8	55TH STREET	16+82	LT	-	-	-	-	-	-	-	1	-	-	REMOVE FROM LIGHT POLE
6-1	BELOIT ROAD	44+64	RT	-	W MOBILE ST	-	-	-	-	1	-	-	-	MOUNT ON SAME POST AS SIGN 6-9
6-2	BELOIT ROAD	44+64	LT	-	W BELOIT RD	-		-	-	1	-	-	-	MOUNT ON SAME POST AS SIGN 6-9
6-3	BELOIT ROAD	44+10	LT	W11-2	-	30	30	-	6.3	-	-	-	1	-
6-4	BELOIT ROAD	44+10	LT	W16-7L	-	24	12	-	2.0	-	-	-	-	MOUNT ON SAME POST AS SIGN 6-3
6-5	BELOIT ROAD	44+33	LT	-	EAST ALLIS	-	-	-	-	1	-	-	-	ATTACH TO NEW LIGHT POLE
6-6	BELOIT ROAD			W11-2	-	30	30	-	6.3	-	-	-	1	-
6-7	BELOIT ROAD	44+10	LT	W16-7L	-	24	12	-	2.0	-	-	-	-	MOUNT ON SAME POST AS SIGN 6-6
6-8	BELOIT ROAD	45+93	RT	-	-	-	-	-	-	-	1	1	-	•
6-9	BELOIT ROAD	44+62	RT	R1-1	-	30	X 30	5.2	-	-	-	-	1	•
6-10	BELOIT ROAD	44+62	RT	R3-2	-	24	X 24	4.0	-	-	-	-	-	MOUNT ON SAME POST AS SIGN 6-9
6-11	BELOIT ROAD	46+02	RT	R7 - 1D	-	12	X 18	1.5	-	-	-	-	-	ATTACH TO NEW LIGHT POLE
6-12	BELOIT ROAD	46+35	LT	-	-	-	-	-	-	-	1	1	-	•
6-13	BELOIT ROAD	46+15	LT	R4-7	-	24	X 30	5.0	-	-	-	-	1	•
6-14	MOBILE STREET	-	-	R10-5 (MOD)	NO LEFT TURN AT BELOIT ROAD	24	X 30	5.0	-	-	-	-	1	PLACE AT NE QUADRANT OF MOBILE & 61ST STREET
6-15	MOBILE STREET	-	-	R10-5 (MOD)	NO LEFT TURN AT BELOIT ROAD	24	X 30	5.0	_	-	-	-	1	PLACE AT NW QUADRANT OF MOBILE & 60TH STREET
6-16	BELOIT ROAD	43+60	LT	R4-7	-		X 30		_	_	-	_	1	•

TOTAL 30.7 32.5 3 8 5 9

ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 2525-03-73 HWY: W. BELOIT ROAD COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: **E**

645.0220

FIELD OFFICE TYPE B

TRAFFIC CONTROL

GEOGRID TYPE SR

	642.5001
LOCATION	EACH
BELOIT ROAD	1
PROJECT TOTAL	1

643.5000 LOCATION **EACH BELOIT ROAD** 1 PROJECT TOTAL

STREET STATION TO STATION SY W. BELOIT RD 42+50 -48+00 1,426 S. 55TH ST 12+90 -15+10 PROJECT TOTAL 1,426

TRAFFIC CONTROL

		TRA Con	.0300 AFFIC NTROL RUMS	643. TRAFFIC BARRI TYPE	CONTROL CADES	TRAFFIC WARNING	.0705 CONTROL G LIGHTS PE A	TRA CON	.0900 FFIC TROL GNS	TRAF COVI	543.0920 FIC CONT ERING SIO TYPE II		643.1050 TRAFFIC CONTROL SIGNS PCMS	644.1440 TEMPORARY PEDESTRIAN SURFACE MATTING	644.1810 TEMPORARY PEDESTRIAI BARRICADE
LOCATION	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	NO.	CYCLES	EACH	DAY	SF	LF
W. BELOIT RD	90			11	990	22	1,980	98	8,820	5	1	5	14	200	100
S. 55TH ST	40	50	2,000	20	800	40	1,600	58	2,320						80
PROJECT TOTALS			2,000		1,790		3,580		11,140			5	14	200	180

PAVEMENT MARKING

				646.1545			646.6120	646.7120	646.7420	646.8120	646.8220	646.8220
					INE GROOV AST EPOXY	ED WET REF	MARKING STOP LINE EPOXY 18-INCH	MARKING DIAGONAL EPOXY 12-INCH	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH	MARKING CURB EPOXY	MARKING ISLAND NOSE EPOXY	MARKING REMOVAL LINE WATER BLASTING 4-INCH
				SOLID WHITE	SOLID YELLOW	SKIP-DASH (9'X 3') WHITE	WHITE	YELLOW	WHITE	YELLOW	YELLOW	
STREET	FROM		T0	LF	LF	LF	LF	LF	LF	LF	EACH	LF
W. BELOIT RD	42+50	-	48+00	795	795 487 24		15	14	131	40	4	529
S. 55TH STREET	12+90	-	15+10	- - -		69	-	-	-	-	-	
	PRO	JEC	T TOTAL	1306			84	14	131	40	4	529

ALL ITEMS CATEGORY 0010 **UNLESS OTHERWISE NOTED**

Ε SHEET: PROJECT NO: 2525-03-73 HWY: W. BELOIT ROAD COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES PLOT SCALE : 1:1

FILE NAME :

		652.0225 *	655.0625	655.0625
		CONDUIT RIGID NON-METALLIC SCHEDULE 40 2-INCH	ELECTRICAL WIRE LIGHTING 6 AWG (UNDERGROUND PHASE AND NEUTRAL WIRES)	ELECTRICAL WIRE LIGHTING 6 AWG (UNDERGROUND GROUND WIRES)
FROM	T0	LF	LF	LF
EXISTING C B/1 6200	C B/1 6126	96	494	247
C A/5 6023	C A/5 6047	69	500	250
	SUB TOTAL	165	994	497
	TOTAL	165	1,49	1

CONDUIT

					652.0225 *	652.0605	653.0115
					CONDUIT RIGID	CONDUIT	PULL BOXES
					NON-METALLIC	SPECIAL	STEEL
					SCHEDULE 40	2-INCH	12X36-INCH
					2-INCH		
STREET	STATION	T0	STATION	OFFSET	LF	LF	EACH
W. BELOIT RD	43+50	-	46+50	32.5' LT	168	132	2
S. 55TH STREET	12+90	-	15+10	-	0	0	0
				PROJECT TOTAL	168	132	2

^{*} ADDITIONAL QUANTITIES SHOWN ELSEWHERE

654.0105

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE LIGHTING

	TOTAL	2/	46
SI	JBTOTAL	164	82
C A/5 604	7	82	41
C B/1 612	6	82	41
DESCRIPTION	N	LF	LF
		NEUTRAL WIRES)	WIRES)
		(POLE PHASE AND	(POLE GROUNI
		12 AWG	12 AWG
		LIGHTING	LIGHTING
		WIRE	WIRE
		ELECTRICAL	ELECTRICAL
		655.0610	655.0610

LUMINAIRE AND POLE MOUNTINGS

CONCRETE BASES TRANSFORMER BASES

657.0255

657.0322

POLES

657.0610

LUMINAIRE ARMS LUMINAIRES

			TYPE 5	BREAKAWAY 11 ¹ / ₂ Inch Bolt Circle	TYPE 5- ALUMINUM (30-F00T)	SINGLE MEMBER 4 1/2-INCH CLAMP 6 FT	UTILITY LED C
DESCRIPTION	STATION	OFFSET	EACH	EACH	EACH	EACH	EACH
C B/1 6126	44+32.00	25.5' LT	1	1	1	1	1
C A/5 6047	45-95.00	25.5' RT	1	1	1	1	1
		TOTALS	2	2	2	2	2

ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED

659.1125

PROJECT NO: 2525-03-73 HWY: W. BELOIT ROAD COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: **E**

FILE NAME : _____ PLOT DATE : ____ PLOT BY : ____ PLOT NAME : ____ PLOT SCALE : 1:1

CONSTRUCTION STAKING MAINLINE ITEMS

			TOTAL		
ITEM	BELOIT RD	S 55TH ST	QUANTITY	UNIT	DESCRIPTION
650.4500	300	0	300	LF	CONSTRUCTION STAKING SUBGRADE
650.5500	78	149	227	LF	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER
650.7000	300	0	300	LF	CONSTRUCTION STAKING CONCRETE PAVEMENT
650.8501	1	0	1	EACH	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (ID 2525-03-73)
650.9000	5	2	7	EACH	CONSTRUCTION STAKING CURB RAMPS
650.9500	1	0	1	EACH	CONSTRUCTION STAKING SIDEWALK (ID 2525-03-73)
650.9911	1	0	1	LS	CONSTRUCTION STAKING SUPLEMENTAL CONTROL (ID 2525-03-73)
650.9920	300	0	300	LF	CONSTRUCTION STAKING SLOPE STAKES

SAWING

				690.0150 Asphalt	690.0250 Concrete
STREET	STATION	TO	STATION	LF	LF
W. BELOIT RD	42+50	-	48+00	42	158
S. 55TH ST	12+90	-	15+10	100	211
			PROJECT TOTAL	142	369

PAVEMENT MARKING

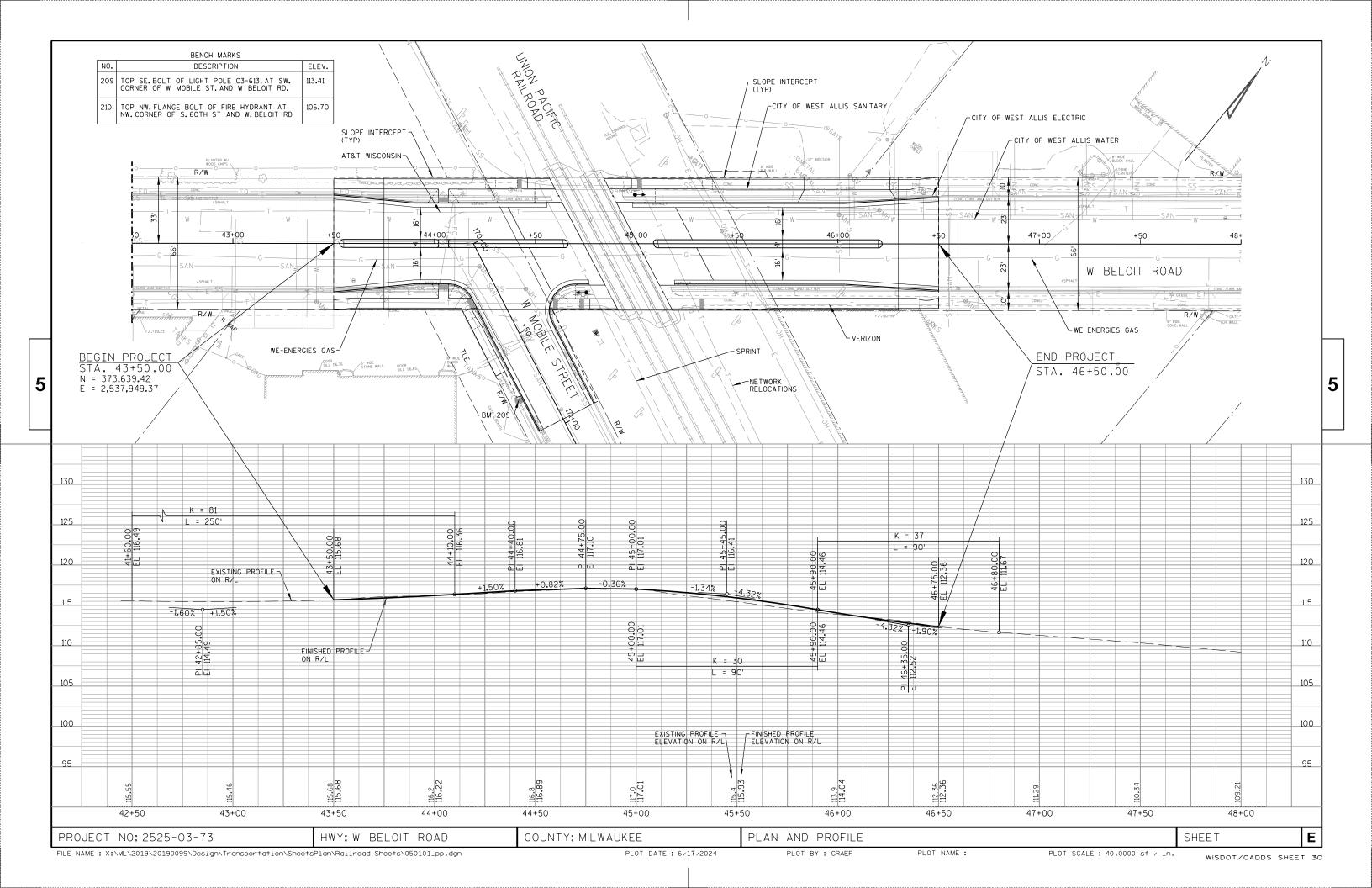
				CAT 0020	CAT 0020		
				SPV.0060.02 MARKING SYMBOL GROOVED BIKE LANE PREFORMED THERMOPLASTIC	SPV.0060.03 MARKING ARROW GROOVED BIKE LANE PREFORMED THERMOPLASTIC	SPV.0090.01 MARKING STOP LINE EPOXY 24-INCH	SPV.0165.01 HIGH FRICTION GREEN SURFACING
				WHITE	WHITE	WHITE	
STREET	FROM		T0	EACH	EACH	LF	SF
W. BELOIT RD	42+50	-	48+00	3	3	47	318
S. 55TH STREET	12+90	-	15+10	-	-	-	-
	F	ROJ	ECT TOTAL	3	3	47	318

ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 2525-03-73 HWY: W. BELOIT ROAD COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: **E**

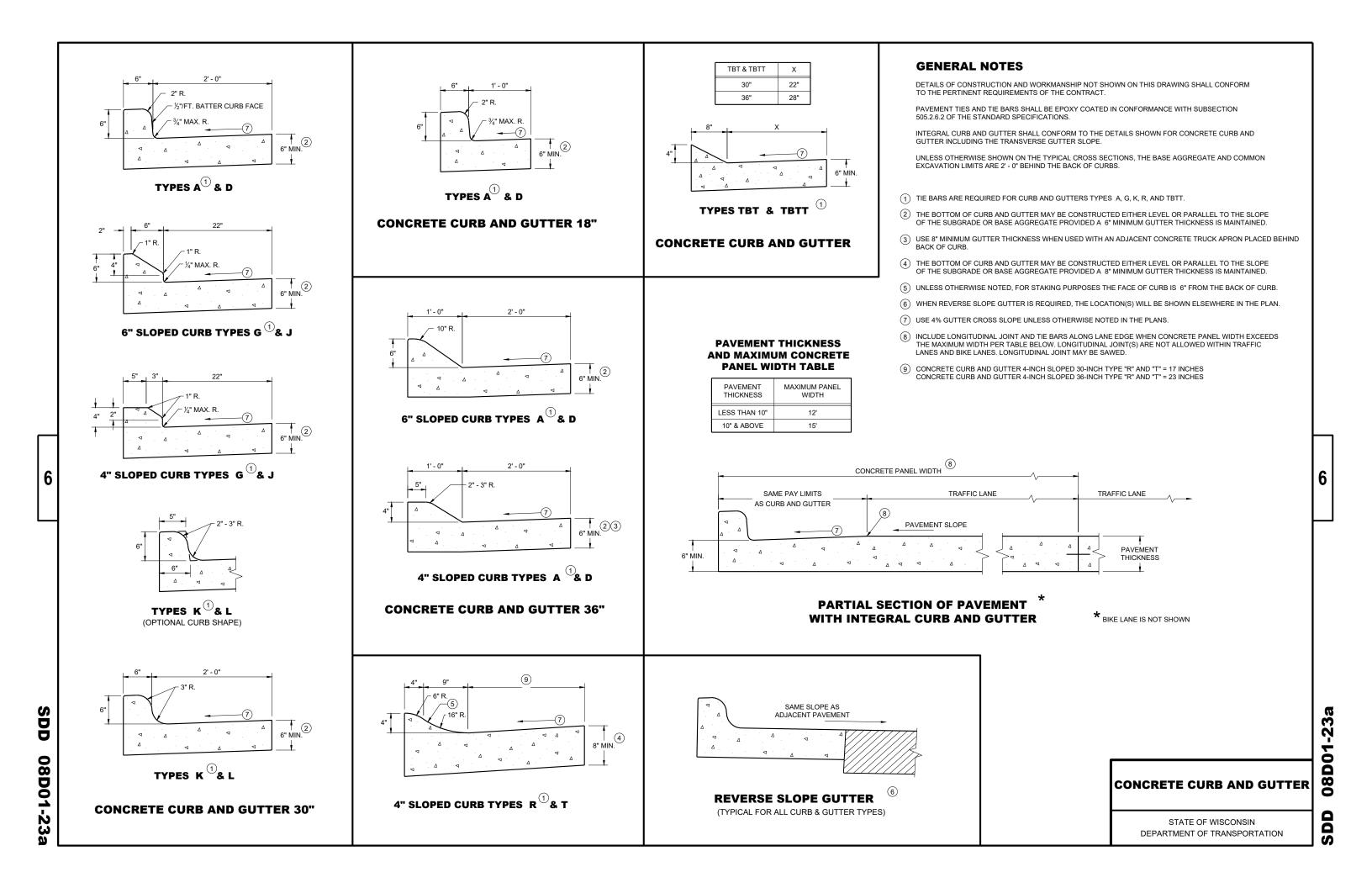
||LE NAME : _____ | PLOT DATE : ____ | PLOT BY : ____ | PLOT NAME : ____ | PLOT SCALE : 1:1

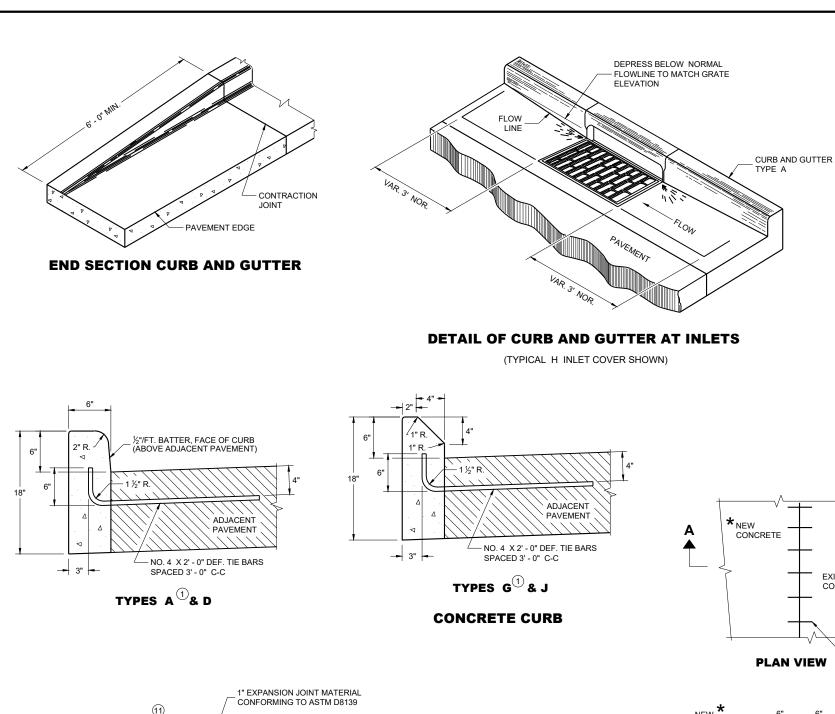
		WATER MAIN RE	AY	
CA	FROM TO ATEGORY STA. STA 0030 170+39.0 170+9	ADJUST WATER WATE VALVE BOX CONN 6 EACH E 1.7 1	SPV.0090.02 ER MAIN WATER MAIN RELAY IECTION 6-INCH NCH ACH LF LOCATION 2 46.2 MOBILE - BELOIT TO A PT	100' SE
CATEGORY STAT 0030 170+3	WATER SERVICES SPV.0090.03 WATER SERVICE COPPER 2-INCH TION LOCATION LF ADD	RESS 27-31	2 47 BUILDING SANITARY SE SPV.0090 BUILDING SAN SEWEF 6-INCH CATEGORY STATION LOCATION LF 0040 170+54.7 RT 15 PROJECT TOTALS 15	.04 NITARY R
	STRUCTURE CATEGORY NUMBER STATION 0040 S13 44+22.8 S14 45+96.4	SANITARY SEWER STR SPV.0060 ADJUST SAN MANHOLE F LOCATION EACH 11.7 RT 1 1.3 RT 1 PROJECT TOTALS 2	0.06 NITARY RAME COMMENTS LOCATION	ALL ITEMS CATECORY 0010
PROJECT NO: 2525-03-73	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES PLOT BY: PLOT NAME :	ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED SHEET: PLOT SCALE: 1:1

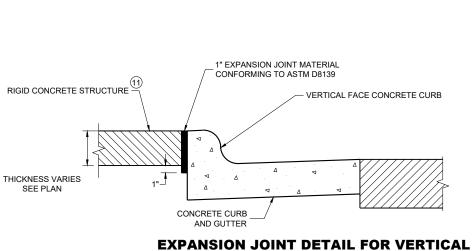


08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-21A	CURB RAMPS TYPES 1 AND 1-A
08D05-21B	CURB RAMPS TYPES 2 AND 3
08D05-21C	CURB RAMPS TYPES 4A AND 4A1
08D05-21D	CURB RAMPS TYPE 4B AND 4B1
08D05-21E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-21F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-21G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D16-11	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08D18-04	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
09в02-10	CONDUIT
09в04-12	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
10A01-04	ELECTRICAL HANDHOLE WIRING
10A06-03	ELECTRICAL DETAILS GROUND MOUNT LIGHT POLES GROUNDED NEUTRAL SYSTEMS
13B01-11A	PAVEMENT DETAILS FOR RAILROAD APPROACH
13B01-11B	TYPICAL SECTIONS FOR RAILWAY APPROACH
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-11	URBAN DOWELED CONCRETE PAVEMENT
13C18-08A	CONCRETE PAVEMENT JOINTING
13C18-08B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-08C	CONCRETE PAVEMENT JOINT TYPES
13C18-08D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-08F	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
13C19-03	HMA LONGITUDINAL JOINTS
14A02-01	TREE PLANTING DETAIL
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-15E	PAVEMENT MARKING FOR BIKE LANES
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-08A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-08B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C29-08A	BICYCLE LANE MARKING
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-09A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09B	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09K	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

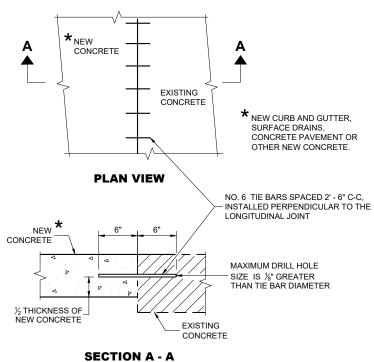
Standard Detail Drawing List







CURB ABUTTING A RIGID STRUCTURE ①



TIE BARS DRILLED
INTO EXISTING PAVEMENT

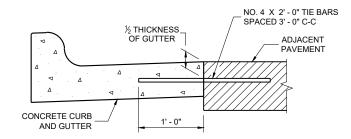
GENERAL NOTES

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

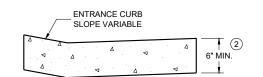
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- (2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- 10 REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.
- (1) PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.



TYPICAL TIE BAR LOCATION



DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

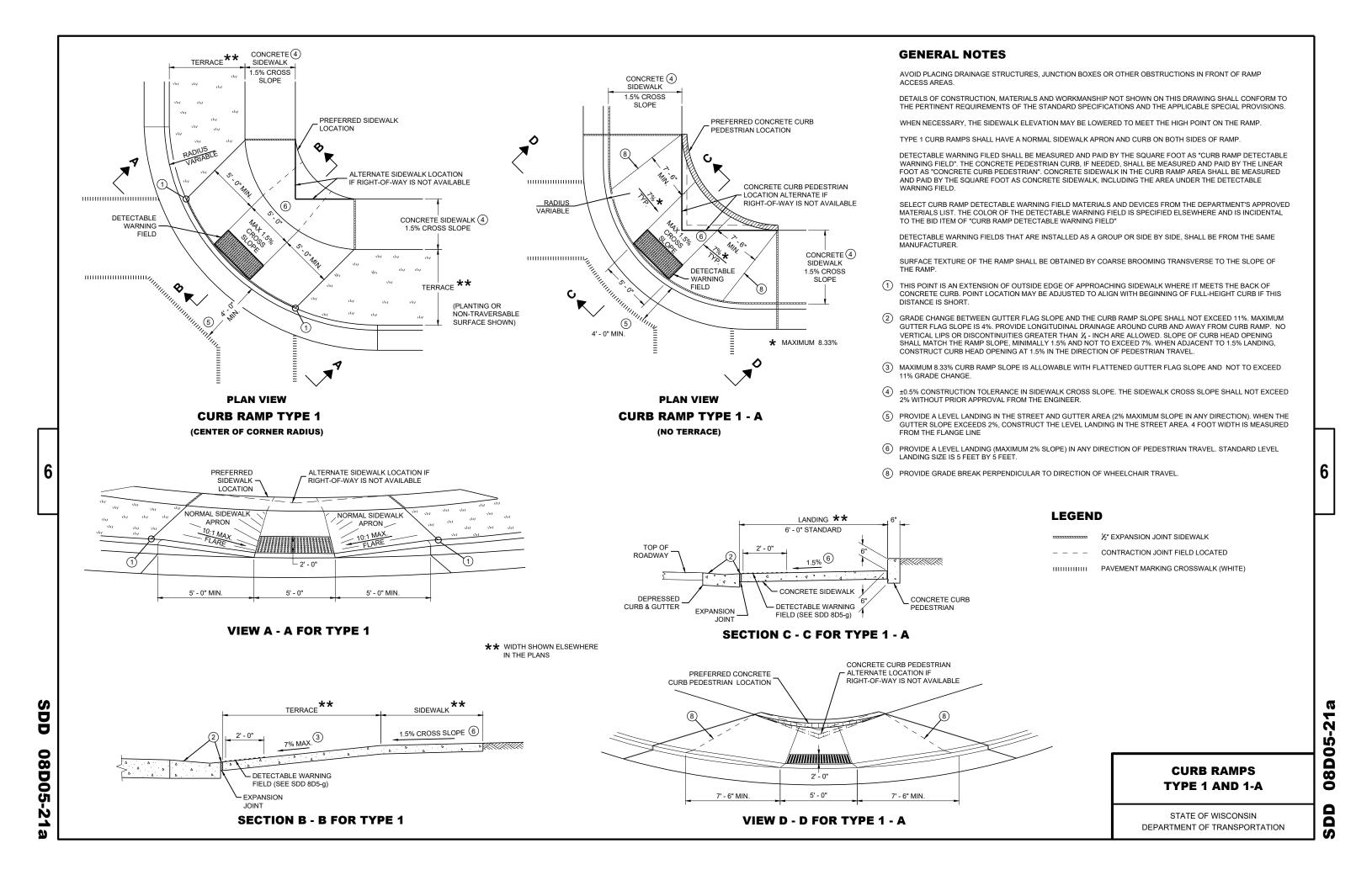
May 2023

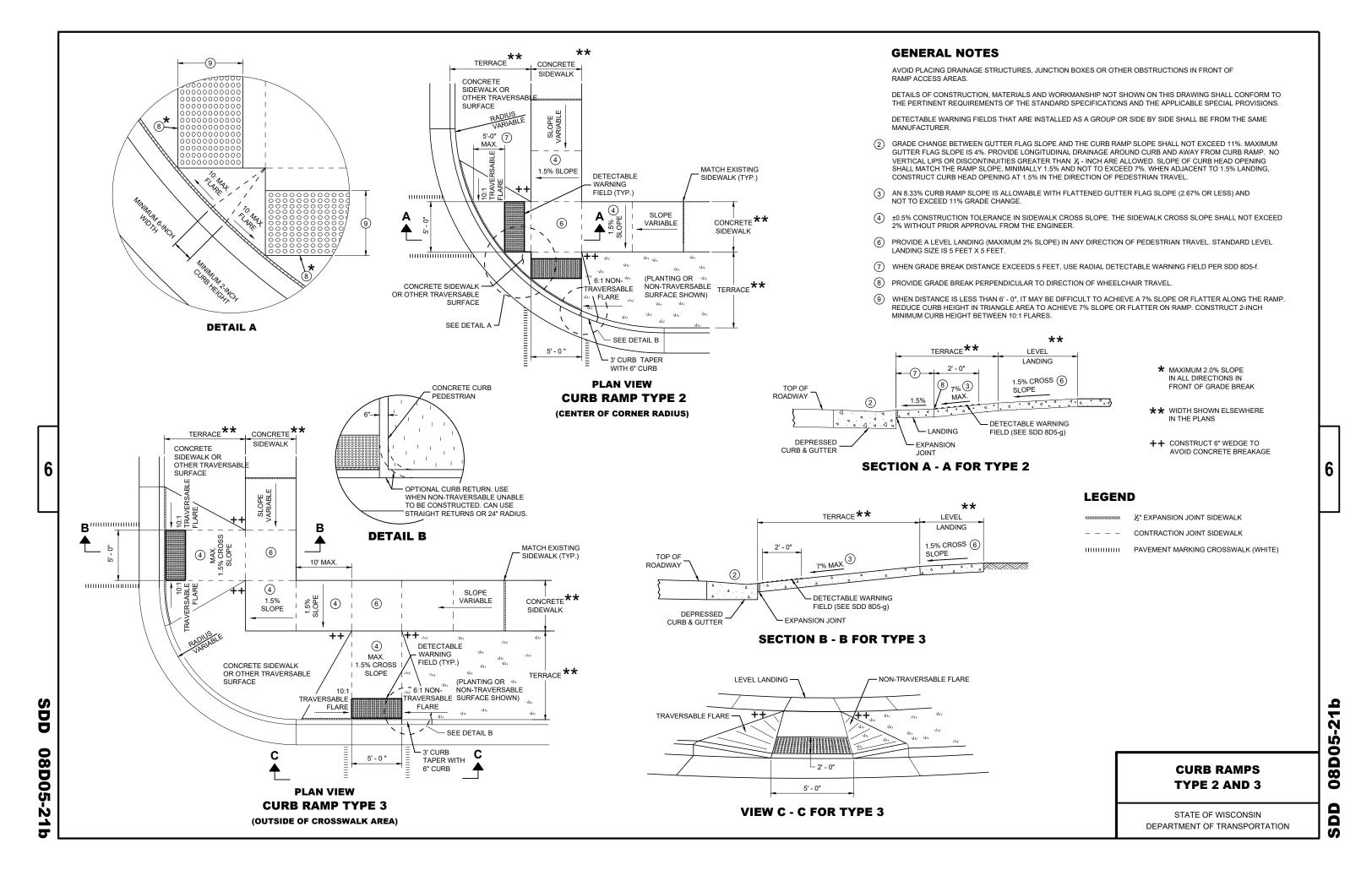
DATE

ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

SDD 08D01-23b

O8D01-23

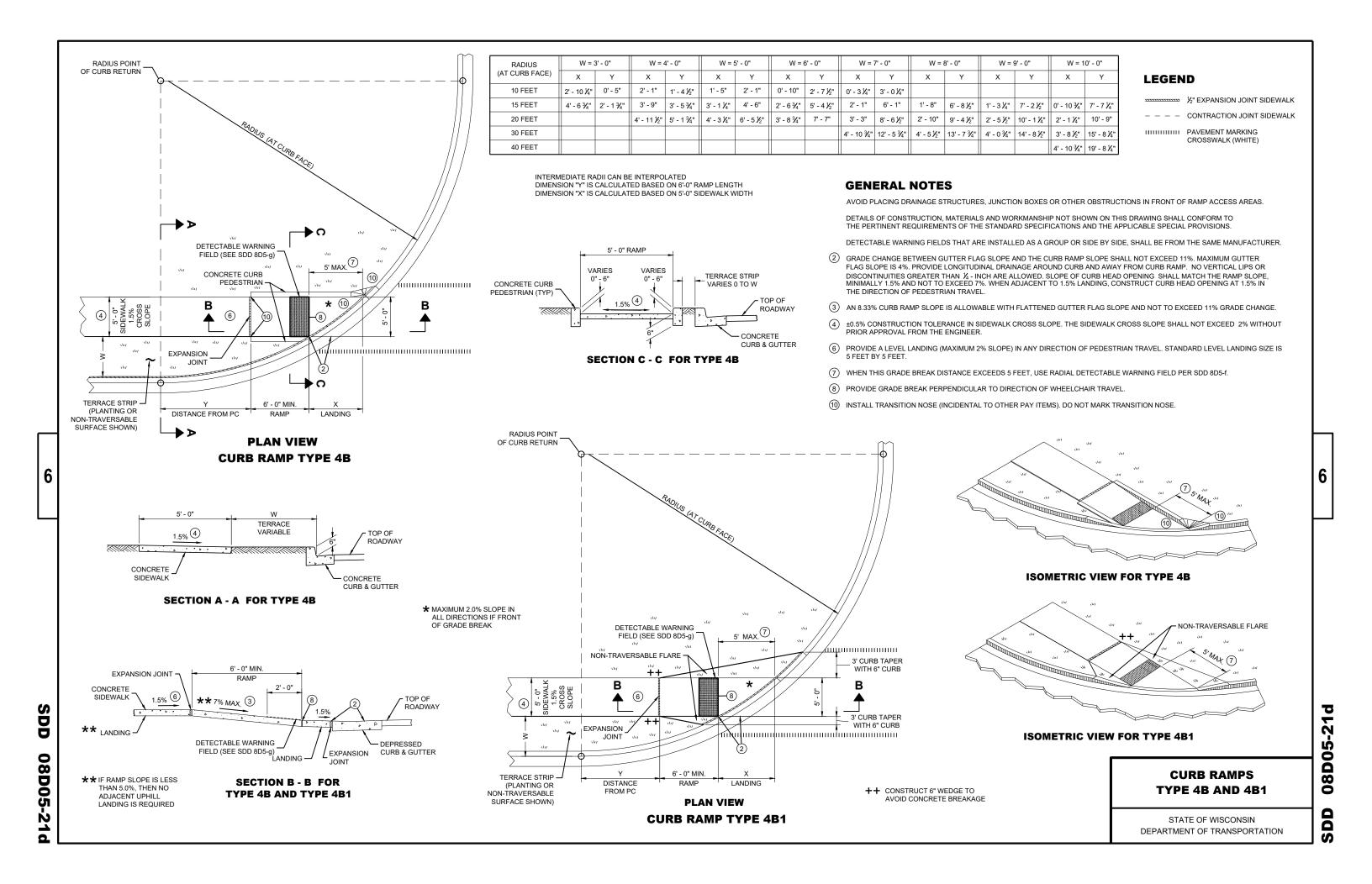


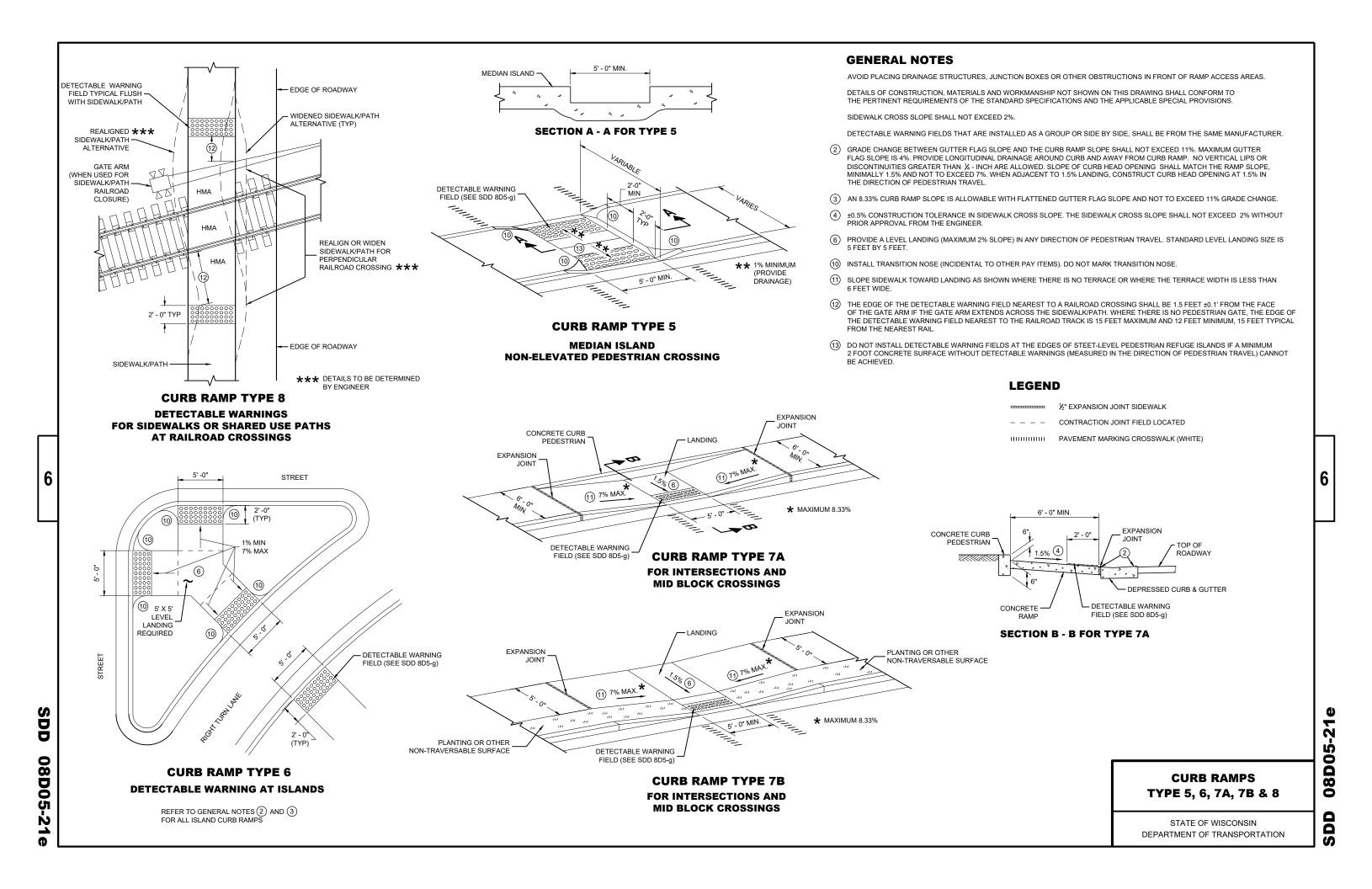


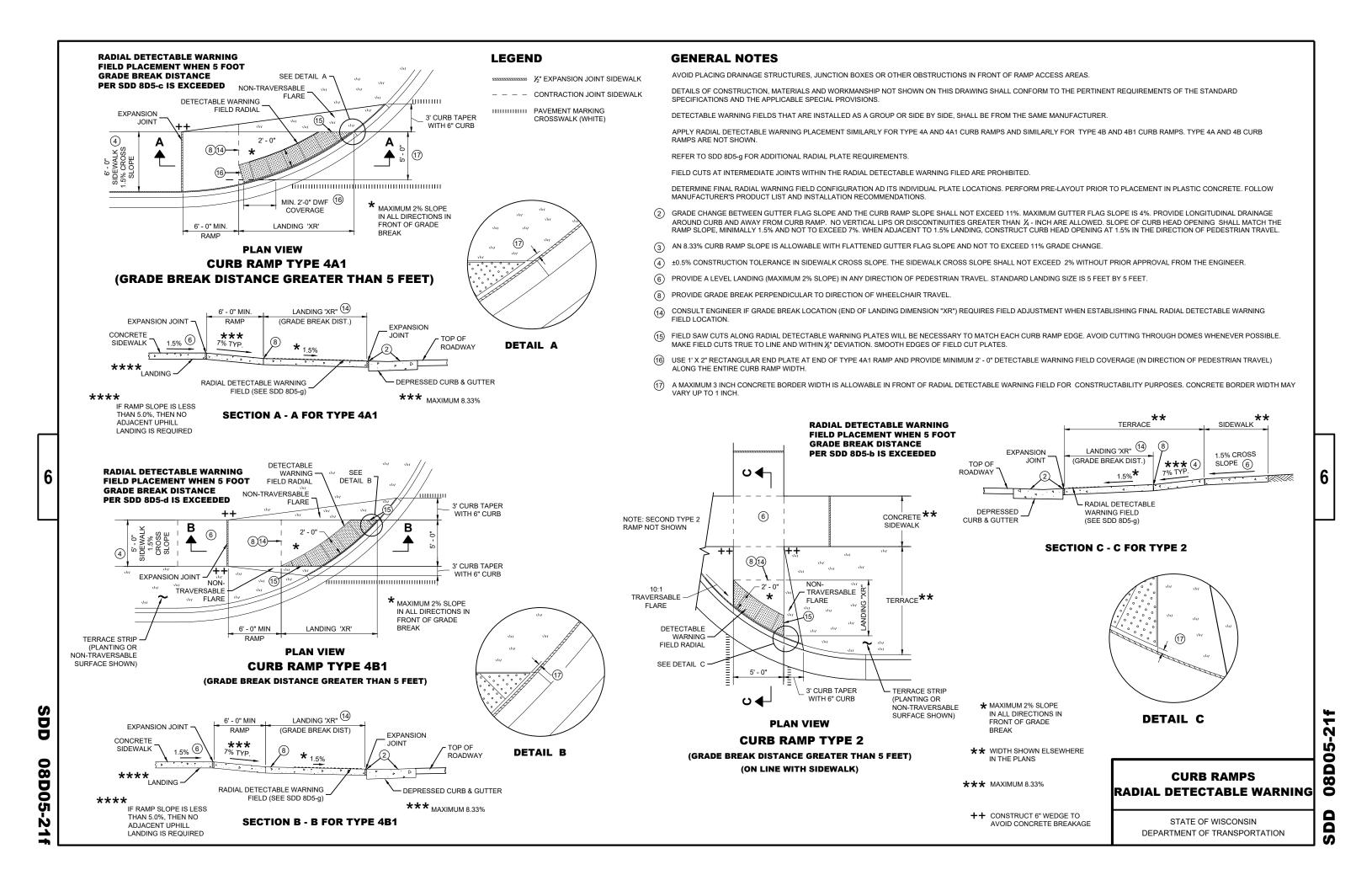
O

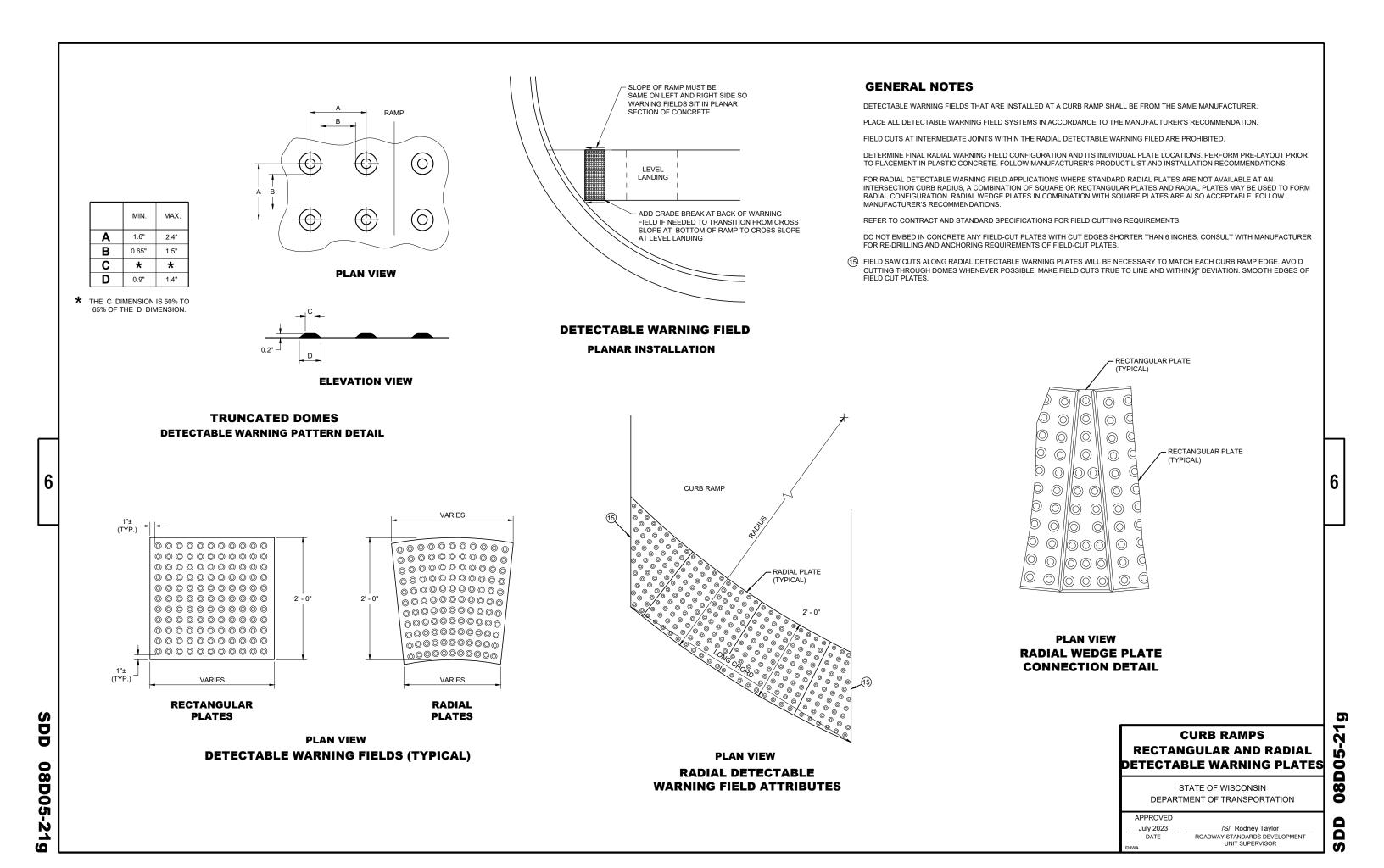
08D0

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION









*TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.

CONTRACTION JOINT - PAVEMENT EDGE

END SECTIONCURB AND GUTTER

7" MIN

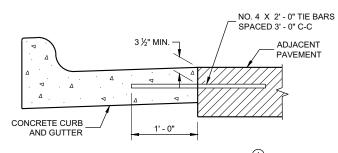
CONCRETE CURB AND GUTTER 22"

SAME PAY LIMITS POINT WHERE **CURB AND GUTTER** SLOPE CHANGES PAVEMENT — ¾" / FT. SLOPE SLOPE PAVEMENT 7" MIN. THICKNESS

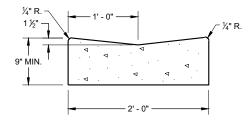
PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER

SAME SLOPE AS ADJACENT PAVEMENT

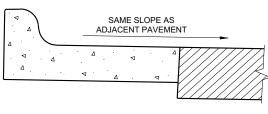
CONCRETE CURB AND GUTTER 19"



TYPICAL TIE BAR LOCATION (1)



CONCRETE GUTTER 24" $^{\scriptsize (1)}$



HIGH SIDE SECTION (3) (TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

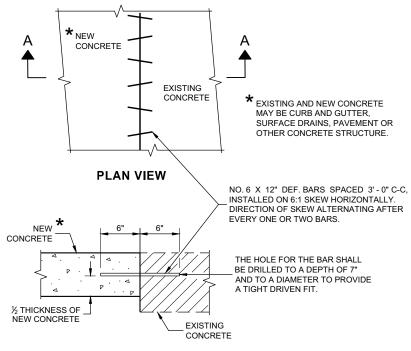
DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

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

- ① WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUITED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (\mathfrak{F}) WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLANS



SECTION A - A

PAVEMENT TIES

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

(For Optional use in Milwaukee Co. Only)

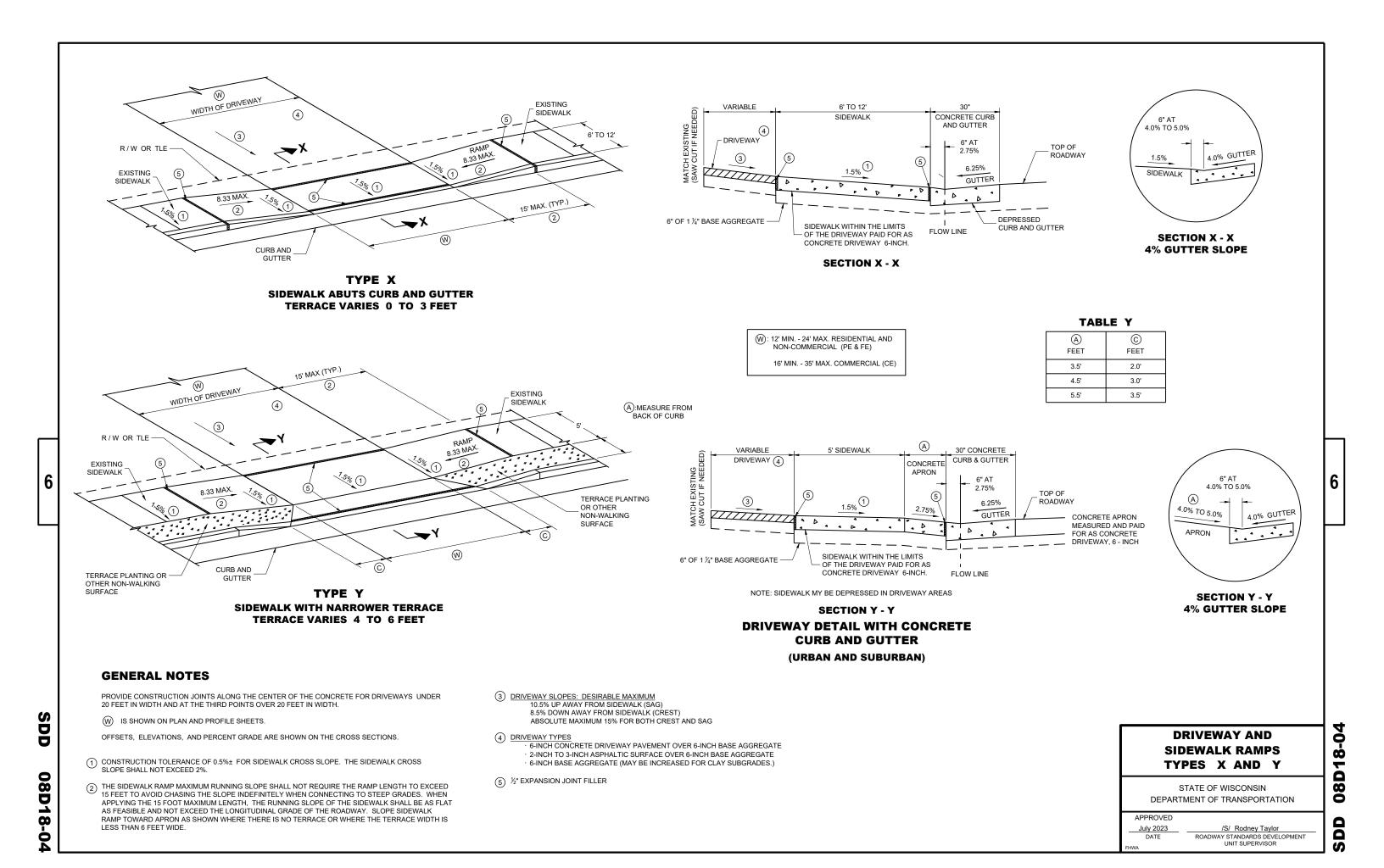
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

SDD 08D, 9

Õ



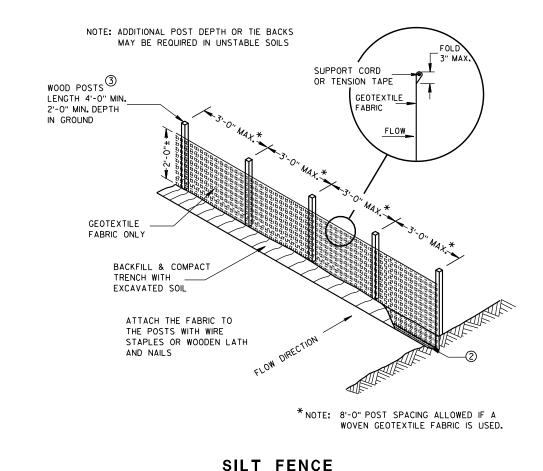
TYPICAL APPLICATION OF SILT FENCE

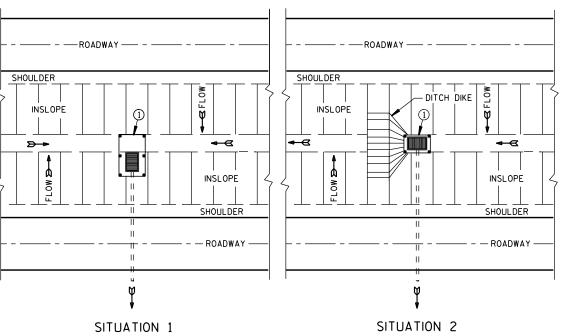
6

b

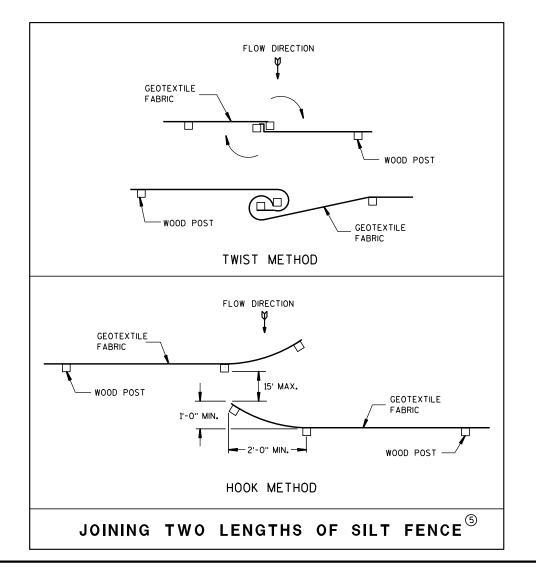
Ō

Ш





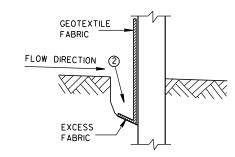
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



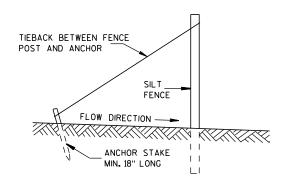
GENERAL NOTES

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

- \bigcirc HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

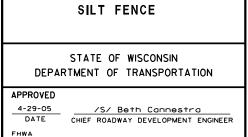


TRENCH DETAIL



SILT FENCE TIE BACK

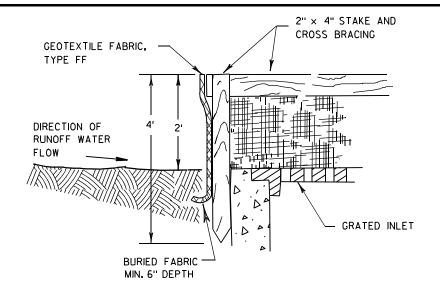
(WHEN REQUIRED BY THE ENGINEER)

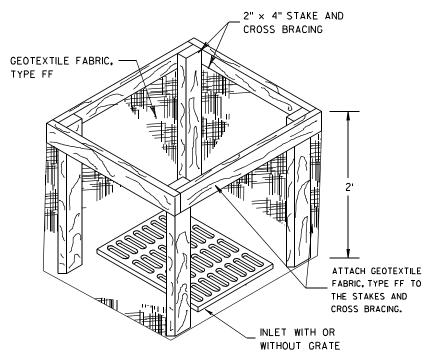


6

ထ

D.D. 8 E 9-6





INLET PROTECTION, TYPE A

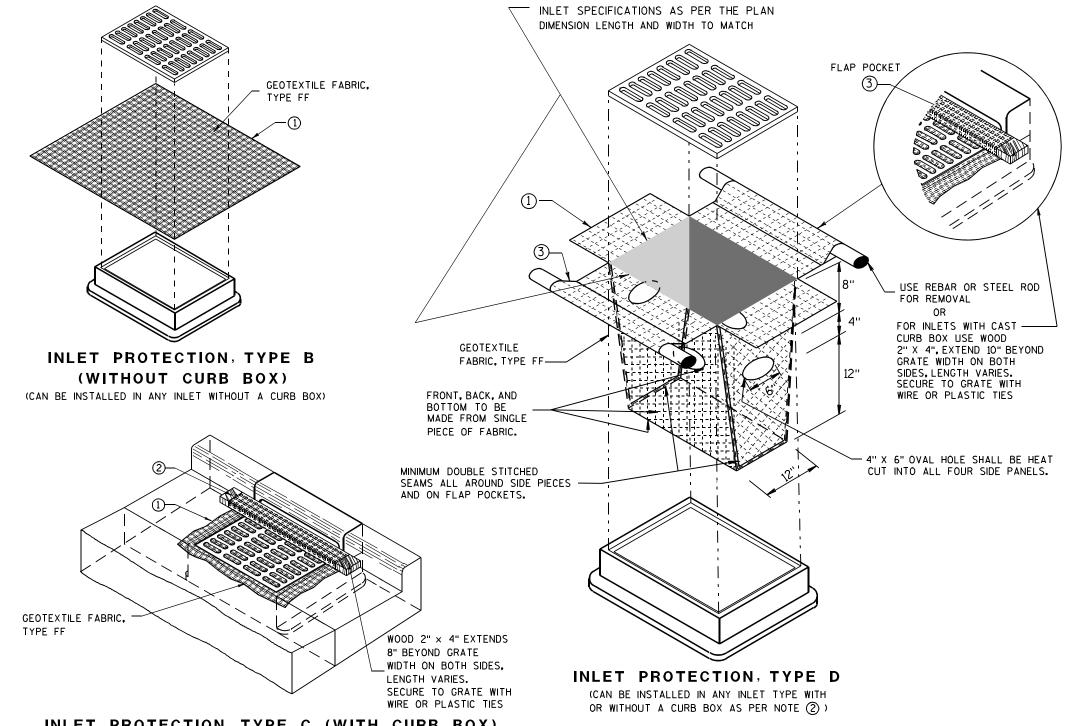
GENERAL NOTES

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

6

0

ш

 ∞

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

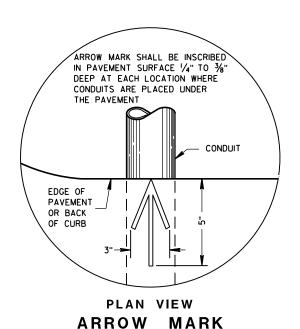
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

10/16/02

 $\mathbf{\omega}$

0

Ω



ARROW MARK INSCRIBED IN PAVEMENT SURFACE OVER € OF CONDUIT (BOTH ENDS) — 2'-0"*—*∕ NORMAL PAVEMENT EDGE OF THICKNESS **PAVEMENT** PAVEMENT OR BACK OF CURB BASE COURSE BACKFILL SLOPE 1/8"/FT. EITHER DIRECTION *DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES - CONDUIT, PITCH TO DRAIN WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L.LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REIN-STALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

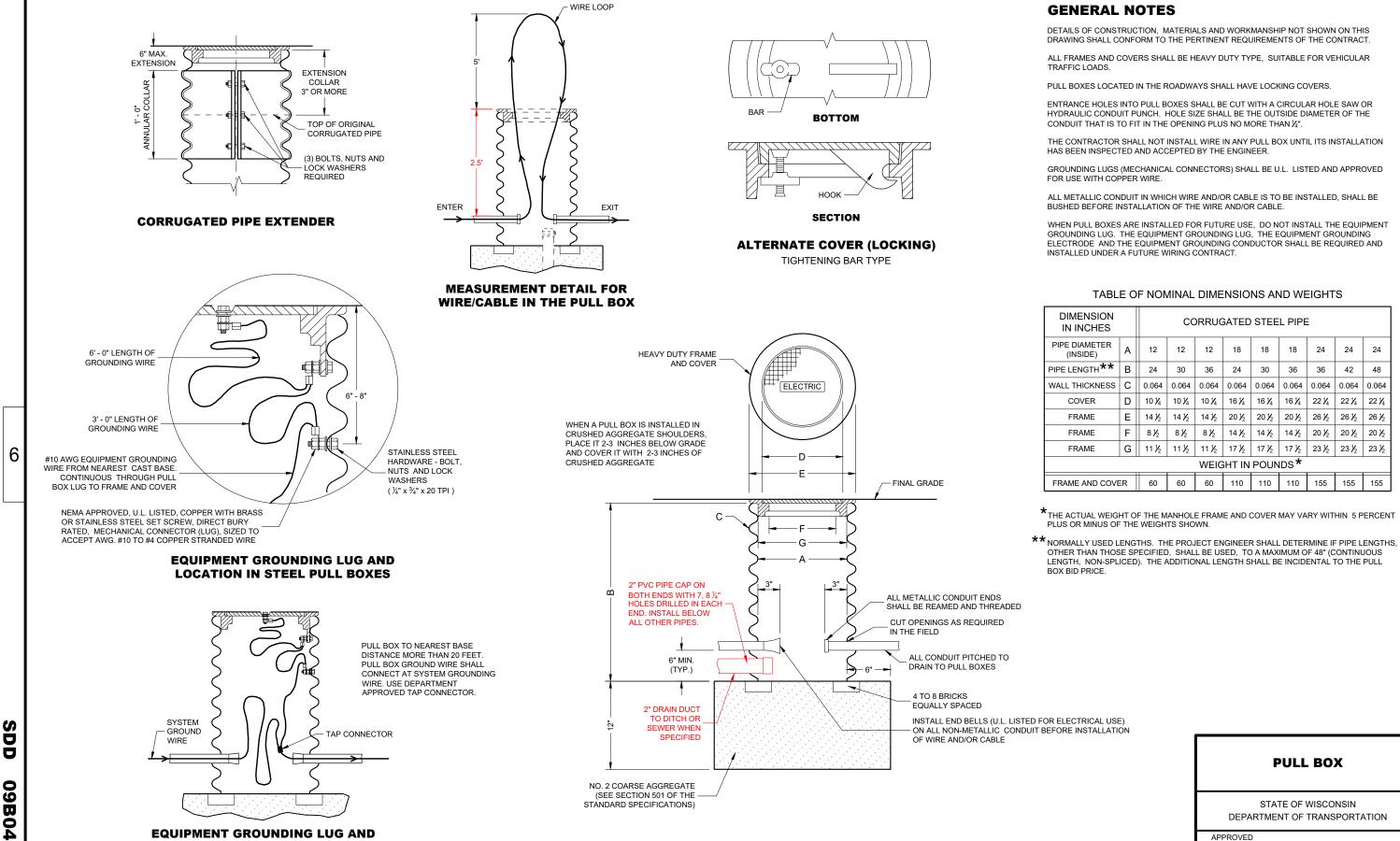
TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
March, 2017	/S/ Ahmet Demirbilek
DATE	STATE ELECTRICAL ENGINEER



PULL BOX

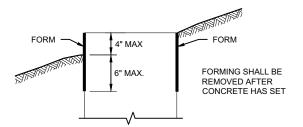
LOCATION IN STEEL PULL BOXES

6

<u></u>

Õ

APPROVED May 2022 DATE /S/ Ahmet Demirbilel STATE ELECTRICAL ENGINEER



TYPE 1

CONDUIT

FO	RI	VI I	N	G	n	FT	Δ	ш

QUANTITY	CONCRETE BASE TYPE				
REQUIREMENTS	1	2	5 & 6		
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40		
LBS. OF HOOP BAR STEEL	NONE	23	16		
LBS. OF VERTICAL BAR STEEL	NONE	60	18		

GENERAL NOTES

CONDUIT

11 1/2" BOLT CIRCLE

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

1" CONDUIT

PURPOSES

CONDUIT

FOR GROUNDING

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

- THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.
- (2) (4) 1" DIA. X 3' 6" ANCHOR RODS.
- (3) (4) 1" DIA. X 5' 0" ANCHOR RODS.
- (6) NO. 6 X 6' 8" BAR STEEL REINFORCEMENT.
- (7) NO. 4 X 5' 1" BAR STEEL REINFORCEMENT @ 1' 0" C C.
- (4) 1" DIA. X 3' 6" ANCHOR RODS.
- (6) NO. 4 X 4' 8" BAR STEEL REINFORCEMENT.
- (8) (5) NO. 4 \times 5' 1" BAR STELL REINFORCEMENT @ 1' 0" C -C.
- EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR
- (10) 5/8" DIA. X 8'-0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED
- ANY ANCHOR ROD PROJECTION SHORTER THAN 2 3/4" OR LONGER THAN 3 1/4" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
- 12) FOR NON BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS, RODENT SCREEN REQUIRED.



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE

STATE ELECTRICAL ENGINEER

PURPOSES CONDUIT CONDUIT WITHIN CONDUIT WITHIN 12 3/4" BOLT CIRCLE 11 1/2" BOLT CIRCLE CONDUIT WITHIN 6" DIA 6" DIA. 6" DIA. ANCHOR RODS SHALL BE ANCHOR RODS SHALL BE ANCHOR RODS SHALL BE ORIENTED PARALLEL TO ORIENTED PARALLEL TO ORIENTED PARALLEL TO (OUT TO OUT) THE ROADWAY THE ROADWAY THE ROADWAY FORM ALL EXPOSED **HALF SECTION IN HALF SECTION** CONCRETE, PROVIDE 1" CHAMFER ALL AROUND **UNPAVED AREA IN PAVEMENT** FORM ALL EXPOSED FORM ALL EXPOSED (TYPICAL FOR (TYPICAL FOR CONCRETE. PROVIDE CONCRETE. PROVIDE TYPES 1, 2, 5 & 6) TYPES 1, 2, 5 & 6) 1" CHAMFER ALL AROUND 1" CHAMFER ALL AROUND 3" (11) 3" (11)(12) 6" MIN. 1' - 0" 6" MIN. 1' - 0" TOPSOIL AND SEED OR 3/4" PREFORMED FILLER CRUSHED AS APPROVED BY THE **AGGREGATE** - 3" CLEAR (9) **ENGINEER** (9) 7' - 0" (5) 5' - 0" (8) MIN 10) 10 OPTIONAL 4" L BEND OR HEX NUT (TYPICAL FOR TYPES 1, 2, 5 & 6 6" MIN 6" MIN OPTIONAL 4" L BEND OR HEX NUT (TYPICAL FOR TYPES 1, 2, 5 & 6

TYPE 2

CONCRETE BASES

1" CONDUIT

FOR GROUNDING

(OUT TO OUT) 3" (11)(12) - 3" CLEAR OPTIONAL 4" L BEND OR HEX NUT (TYPICAL FOR TYPES 1, 2, 5 & 6 L 2"

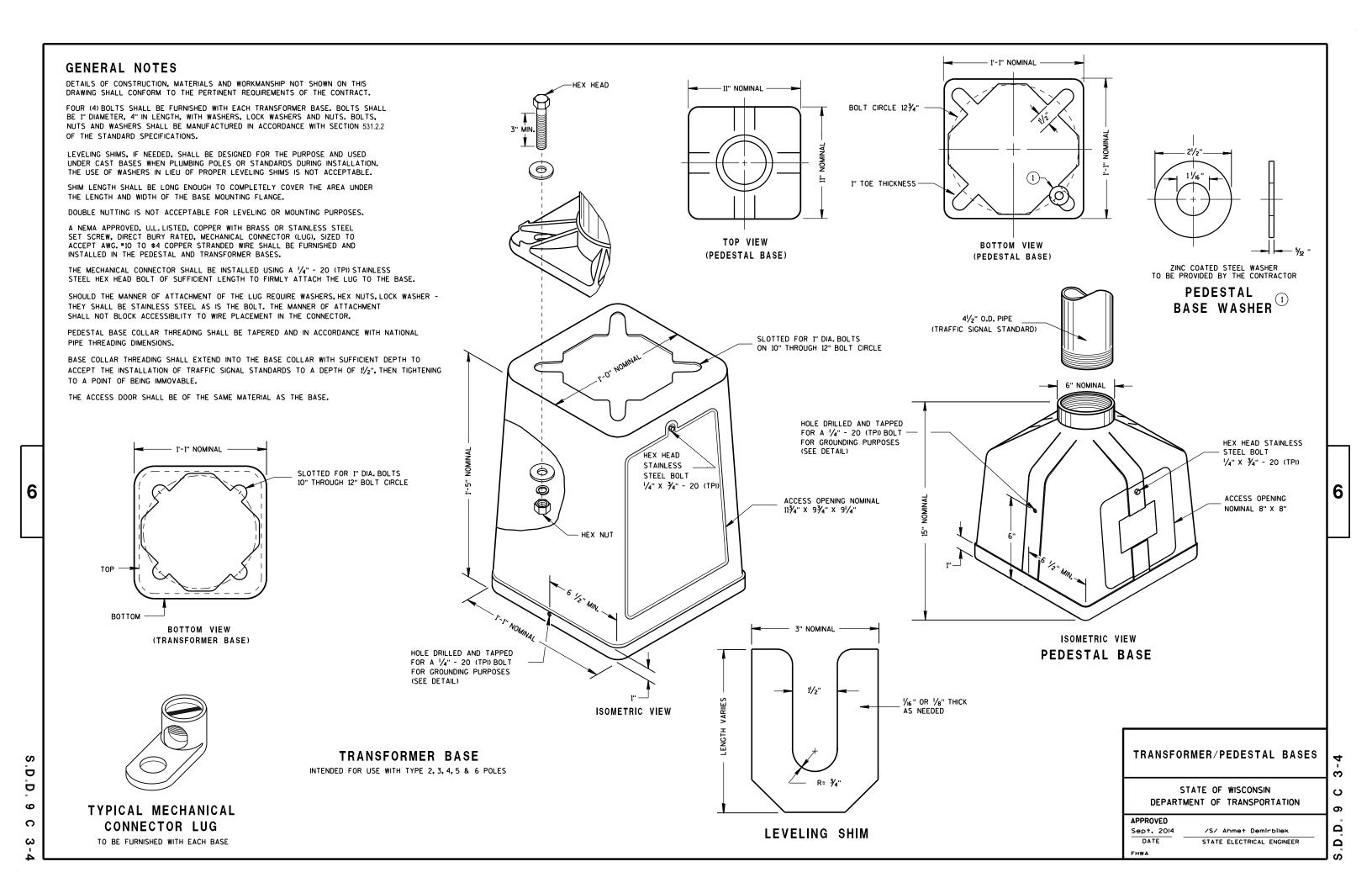
TYPE 5 & 6

SD 0

6

09C02

0 2 Ü 0 Ŏ



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

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

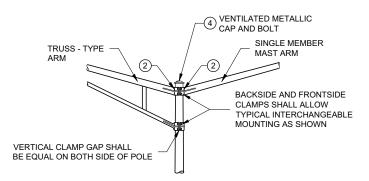
TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ½ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER

- 1 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.
- 2 GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ½" HOLE IN POLE SHAFT FOR WIRING.
- $\ensuremath{\ensuremath{\mathfrak{G}}}$ CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.
- (4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
- (5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.
- 6 INTERNAL DUMBBELL TYPE VIBRATION DAMPER.

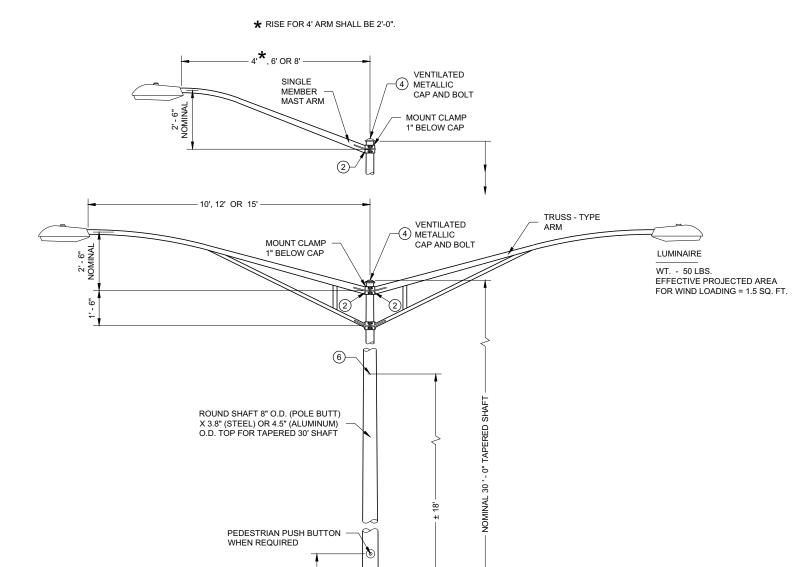


INTERCHANGEABLE MOUNTING DETAIL

POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

09E0

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

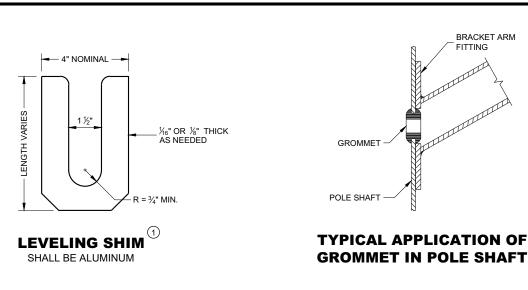
3 5

TOP OF CONCRETE BASE -



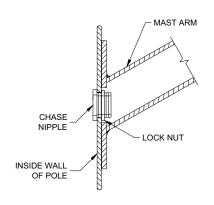






GUSSETS REQUIRED

BOLTS ENTIRE LENGTH



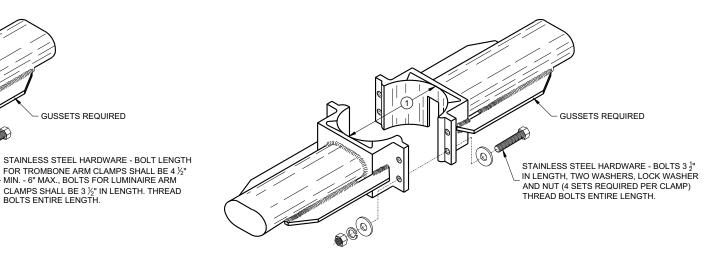
TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

- (1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.
- (2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)
- 3 BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER
- 4 LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC

SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

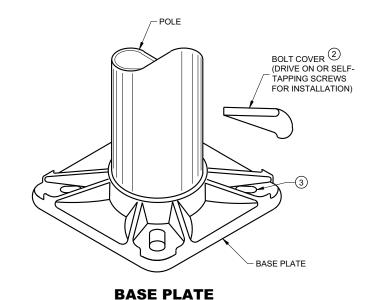


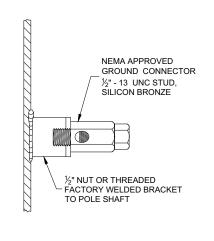
"J " HOOK DOOR SIDE HOOK FACTORY 1 g" RACEWAY HOLE - OPPOSITE WELDED TO POLE DOOR (180° SIDE) IF CALLED FOR

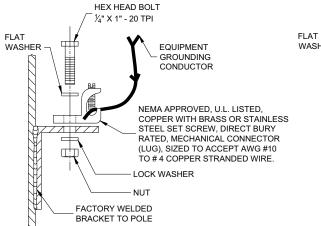
TYPICAL "J" HOOK LOCATION

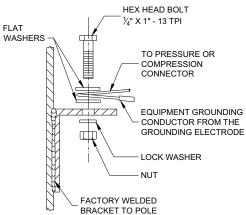
TYPICAL TROMBONE MAST ARM AND SINGLE **LUMINAIRE MAST ARM MOUNTING CLAMP**

TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS









TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

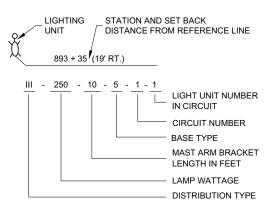
APPROVED November 2018 DATE

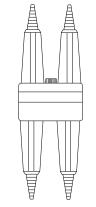
/S/ Ahmet Demirbilel STATE ELECTRICAL ENGINEER

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

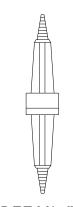
THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

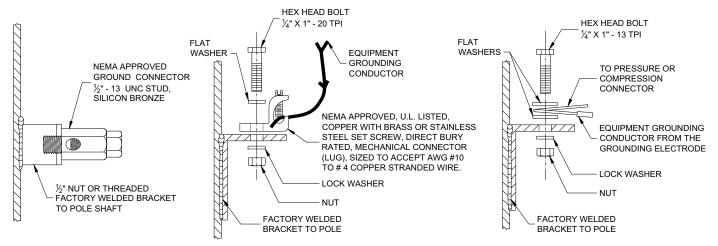








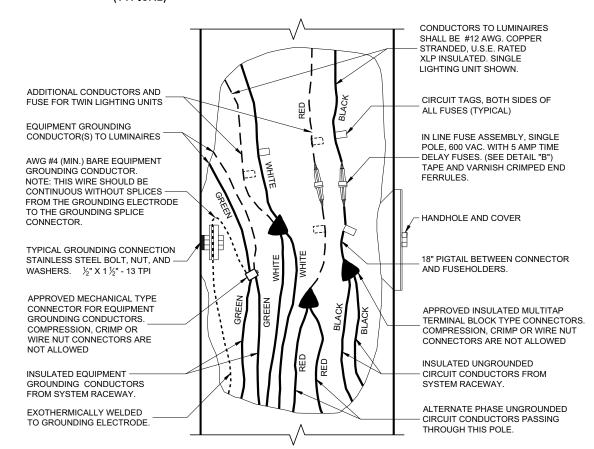
DETAIL "B"
BREAKAWAY
SINGLE POLE WITH
WATERPROOF
INSULATING BOOT



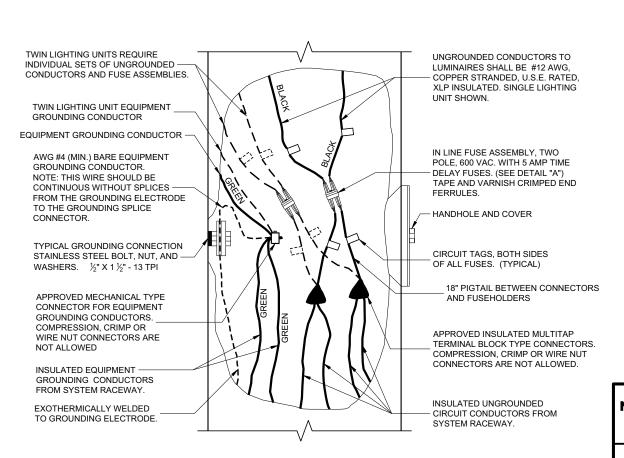
TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

LIGHTING UNIT CODE (TYPICAL)



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS)
WITH GROUNDING CONDUCTOR AND
EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS)
WITH EQUIPMENT GROUNDING CONDUCTOR

NON - FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

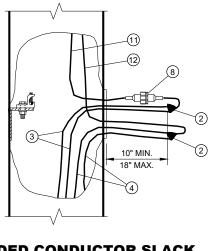
APPROVED

November 2018 /S/ Ahmet Demirbilek

DATE STATE ELECTRICAL ENGINEER

SDD 09E03-06

DD 09E03 -



UNGROUNDED CONDUCTOR SLACK (AND GROUNDED NEUTRAL SLACK IN GROUNDED NEUTRAL SYSTEM)

FLAT WASHER HEX HEAD BOLT M6 X 1 X 25mm NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR ((LUG), SIZED TO ACCEPT AWG #10 TO #4 COPPER STRANDED WIRE. FLAT WASHER LOCK WASHER NUT FACTORY WELDED BRACKET TO LIGHT POLE OR STRUCTURE COLUMN

HANDHOLE GROUNDING LUG

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

GENERAL NOTES

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

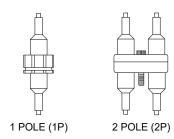
USE THIS DETAIL IN CONJUNCTION WITH THE ELECTRICAL DETAILS FOR THE APPLICATION, WHICH MAY BE A LIGHT POLE, SIGN BRIDGE, ETC.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

THREE POLE WIRES ARE SHOWN FOR A SINGLE LUMINAIRE LIGHT POLE. THREE ADDITIONAL POLE WIRES REQUIRED FOR TWIN LUMINAIRE LIGHT POLES ARE OMITTED FROM THE DRAWING FOR CLARITY. IN THE TWIN POLE CASE, BUNDLE EACH SET OF THREE WIRES WITH A NYI ON CABLE TIE.

IN 3-PHASE SYSTEMS, THERE WILL BE ONE MORE UNGROUNDED LINE WIRE, WHICH IS OMITTED FROM THE DRAWING FOR CLARITY.

CIRCUIT TAGS SHALL BE INSTALLED ONLY WHERE REQUIRED IN THE SPECIAL PROVISIONS.



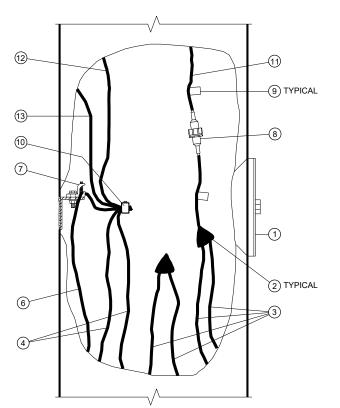
FUSE ASSEMBLIES

CONDUCTOR COLOR CODES

KEY	CONDUCTOR	COLOR
3 4 5 6 11 12 13	UNGROUNDED LINE WIRE GROUNDED LINE WIRE SYSTEM GROUNDING LINE WIRE GROUNDING ELECTRODE CONDUCTOR UNGROUNDED POLE WIRE GROUNDED POLE WIRE EQUIPMENT GROUNDING POLE WIRE	* WHITE GREEN BARE * WHITE GREEN

★ FOLLOW COLOR CODING SHOWN IN THE PLANS. WHERE THE PLANS DO NOT SHOW COLOR CODING, USE BLACK FOR SINGLE LUMINAIRE POLES; BLACK AND RED FOR TWIN LUMINAIRE POLES.

TYPICAL CONDUCTOR SLACK AT HANDHOLES



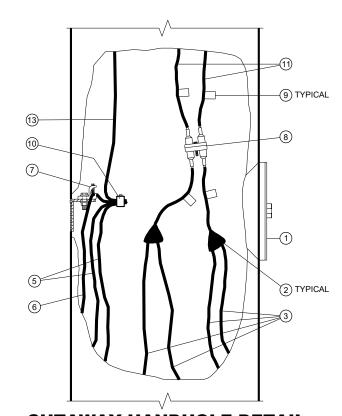
GROUNDED NEUTRAL SYSTEMS

1)
(3)
(1)
(3)
(4)
(2) TYPICAL
(3)
(3)
(4)
(4)

CUTAWAY HANDHOLE DETAIL

ISOLATED NEUTRAL SYSTEMS 1-\$ SHOWN; 3-\$ WYE SIMILAR (SEE GENERAL NOTE)

NOTE: REQUIRED CONDUCTOR SLACK NOT SHOWN ON "CUTAWAY HAND HOLE" DETAILS FOR DRAWING CLARITY, SEE "TYPICAL CONDUCTOR SLACK AT HANDHOLES" ON THIS SHEET.



CUTAWAY HANDHOLE DETAIL

PHASE TO PHASE SYSTEMS 1-¢ SHOWN; 3-¢ DELTA SIMILAR (SEE GENERAL NOTE) 1 HANDHOLE AND COVER
2 INSULATED SPLICE
3 UNGROUNDED LINE WIRE
4 GROUNDED LINE WIRE
5 SYSTEM GROUNDING LINE WIRE
6 GROUNDING ELECTRODE CONDUCTOR
7 HANDHOLE GROUNDING LUG
8 FUSE ASSEMBLY, 1P OR 2P AS REQUIRED
9 CIRCUIT TAG (SEE GENERAL NOTE)
10 REVERSIBLE PRESSURE OR COMPRESSION GROUNDING CONNECTOR (NOT INSULATED)
11 UNGROUNDED POLE WIRE
12 GROUNDED POLE WIRE
13 EQUIPMENT GROUNDING POLE WIRE

ELECTRICAL HANDHOLE WIRING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

May 2022 /S/ Ahmet Demirbilek

DATE STATE ELECTRICAL ENGINEER

SDD 10A01 - 0

3D 10A01

USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING SDD10A01

USE TIME DELAY FUSE PER LUMINAIRE MANUFACTURER RECOMMENDATION.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLD GROUNDING LUG TO THE CONNECTOR.

WIRING FOR SINGLE LUMINAIRE POLES IS SHOWN WITH SOLID LINES. WIRING FOR THE SECOND LUMINAIRE OF TWIN LUMINAIRE POLES IS SHOWN WITH DOTTED LINES.

THE PLANS WILL SHOW WHICH CIRCUIT LEG(S) ARE CONNECTED TO EACH INSTALLATION.

SEE GENERAL NOTE LIGHT POLE HANDHOLE A B N B N LINE B N LINE A B N LINE B N LINE A B N LINE B LINE B N LINE B LINE

TYPICAL WIRING DIAGRAM

GROUNDED NEUTRAL SYSTEM 1 - \$\phi\$ 240 / 480VAC 3 WIRE OR 480VAC 2 WIRE

LEGEND

A,B,X,Y,Z

UNGROUNDED CIRCUIT CONDUCTORS

N

GROUNDED CIRCUIT CONDUCTORS

GND

EQUIPMENT GROUNDING CONDUCTOR

P

POLE (ELECTRICAL CIRCUIT)

HANDHOLE GROUND LUG

SINGLE-POLE (1P) FUSE ASSEMBLY

UNFUSED LUMINAIRE

EQUIPMENT GROUNDING ELECTRODE

TERMINAL

SPLICE

CONDUCTOR

EXOTHERMIC WELD

ELECTRICAL DETAILS
GROUND MOUNT LIGHT POLES
GROUNDED NEUTRAL SYSTEM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

 APPROVED

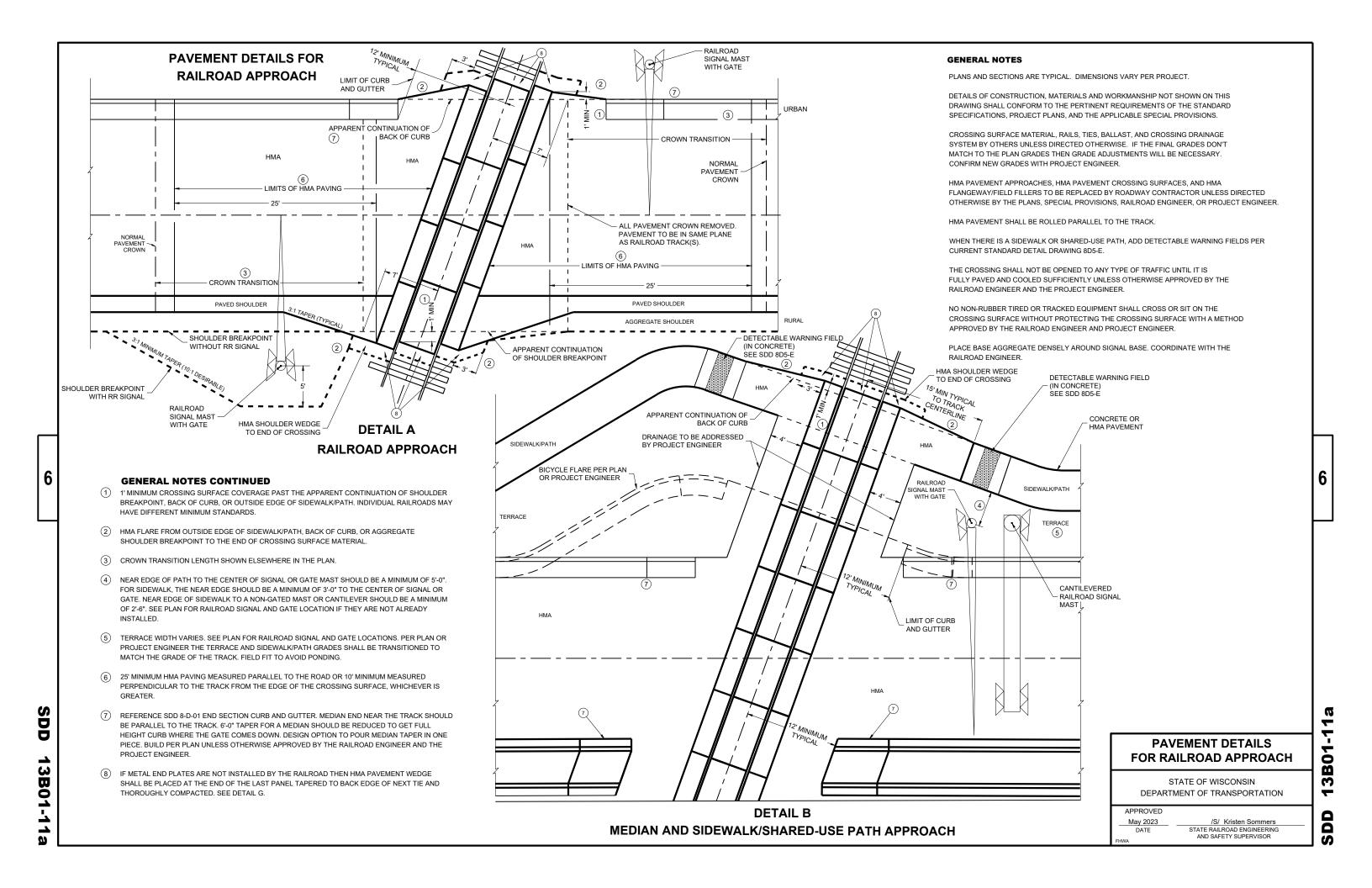
 November 2018
 /S/ Ahmet Demirbilek

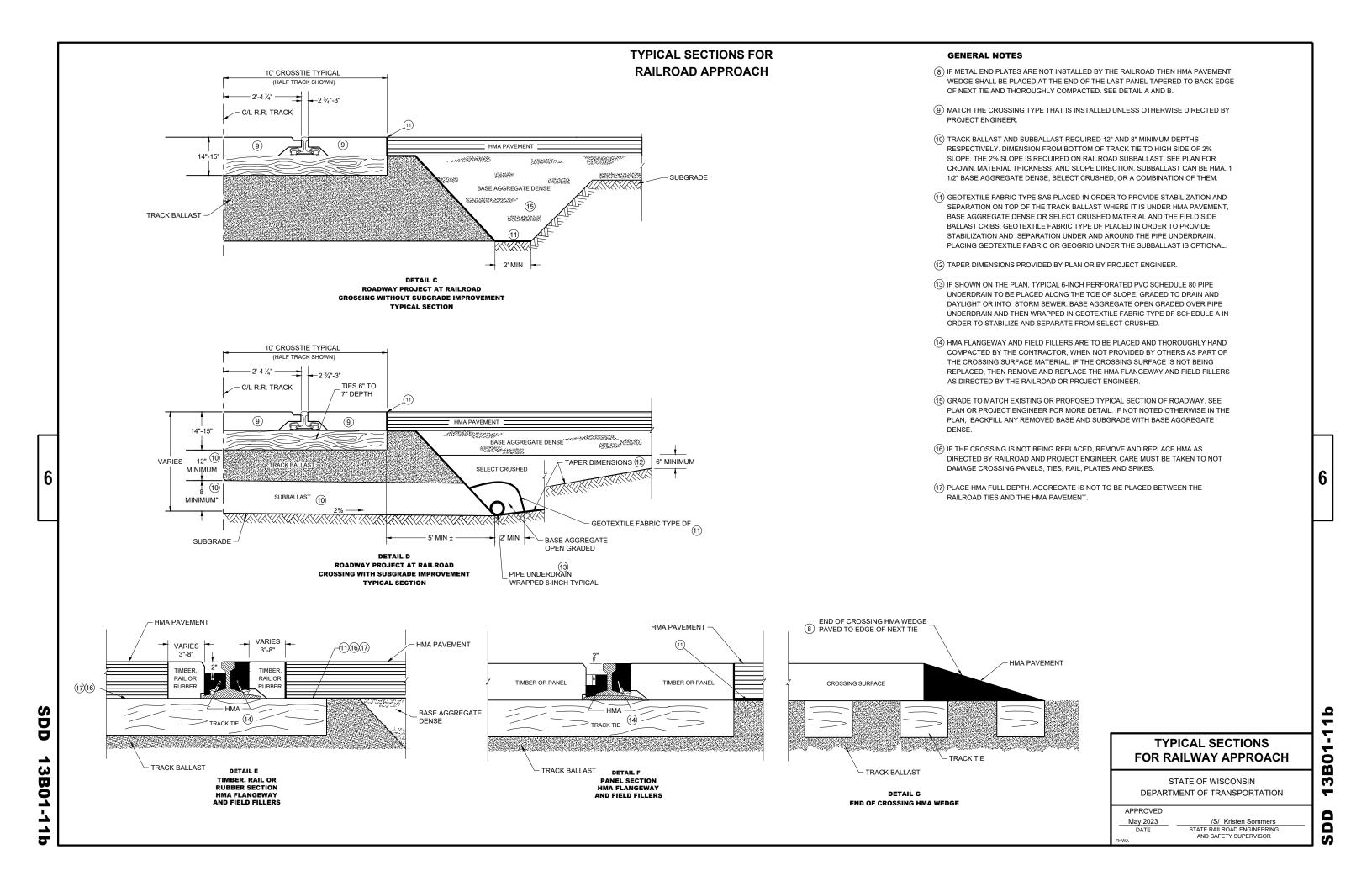
 DATE
 STATE ELECTRICAL ENGINEER

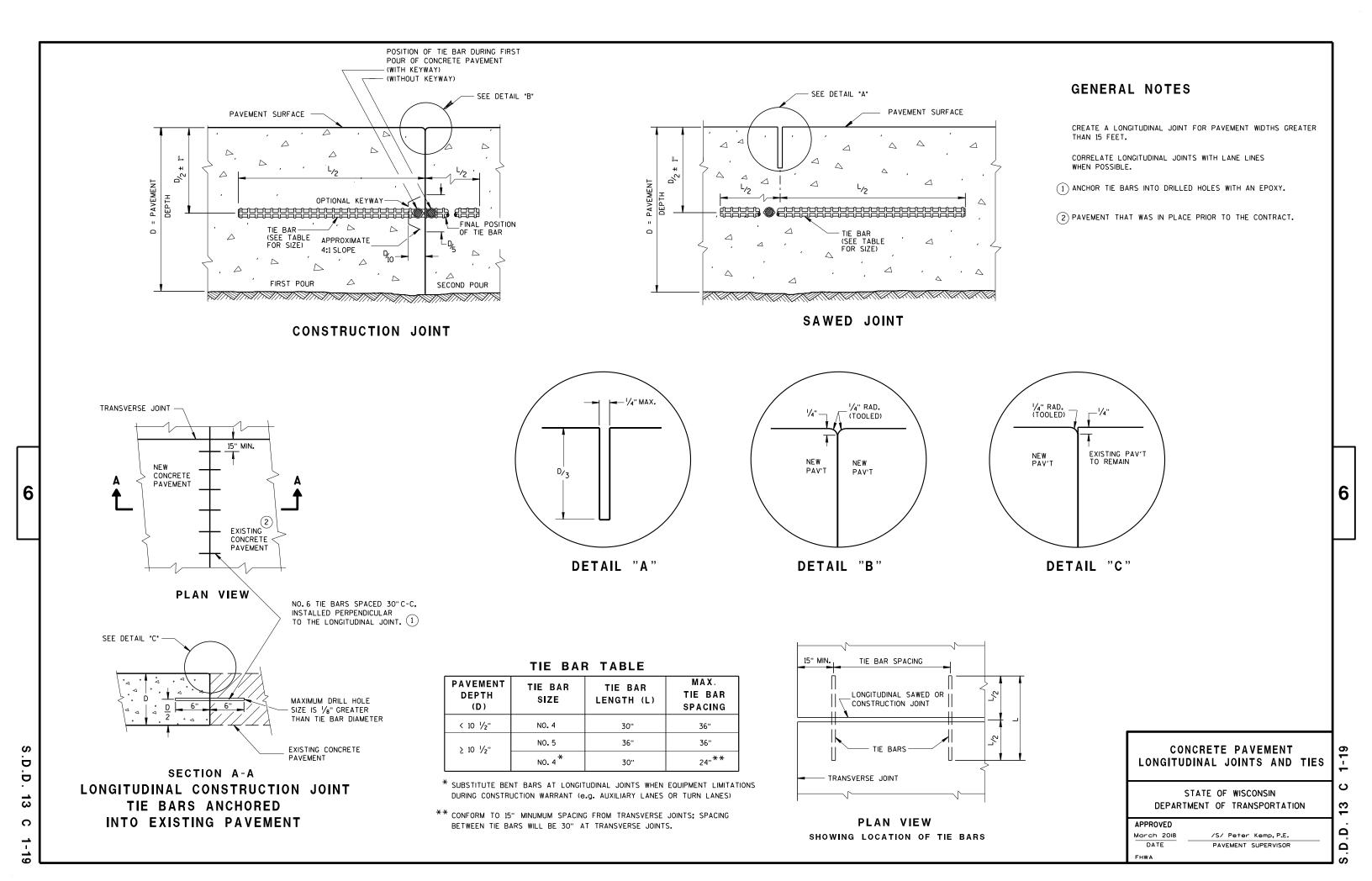
6

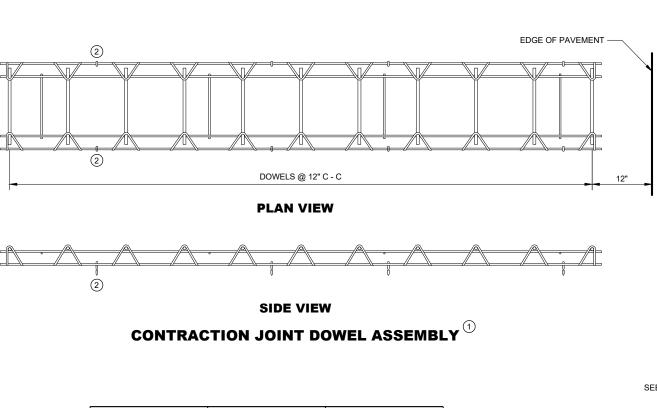
SDD 10A06

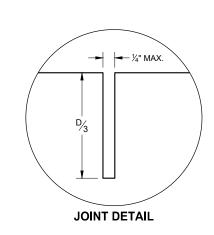
D 10A06 - 03

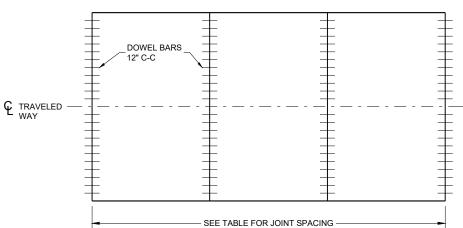


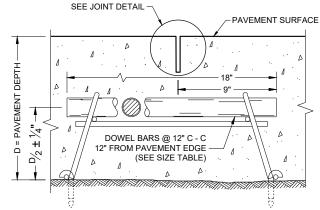




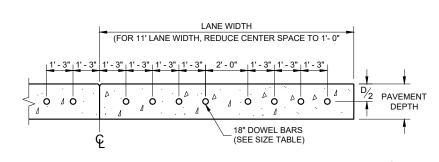






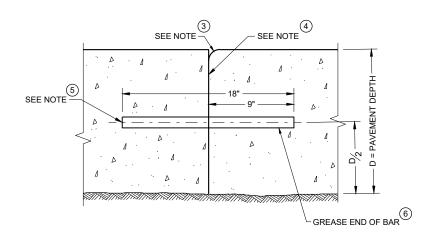


DOWELED CONTRACTION JOINT



CONTRACTION JOINT LOCATIONS

DRILLED DOWEL BAR CONSTRUCTION JOINT



TRANSVERSE CONSTRUCTION JOINT

GENERAL NOTES

CONTRACTION JOINTS

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

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

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

CONSTRUCTION JOINTS

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

- ① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTION CONTRACTION JOINTS.
- 2 SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.
- (3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4" RADIUS AT FORMED JOINTS.
- 4 PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.
- 5 INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.
- 6 APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.
- 7 ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

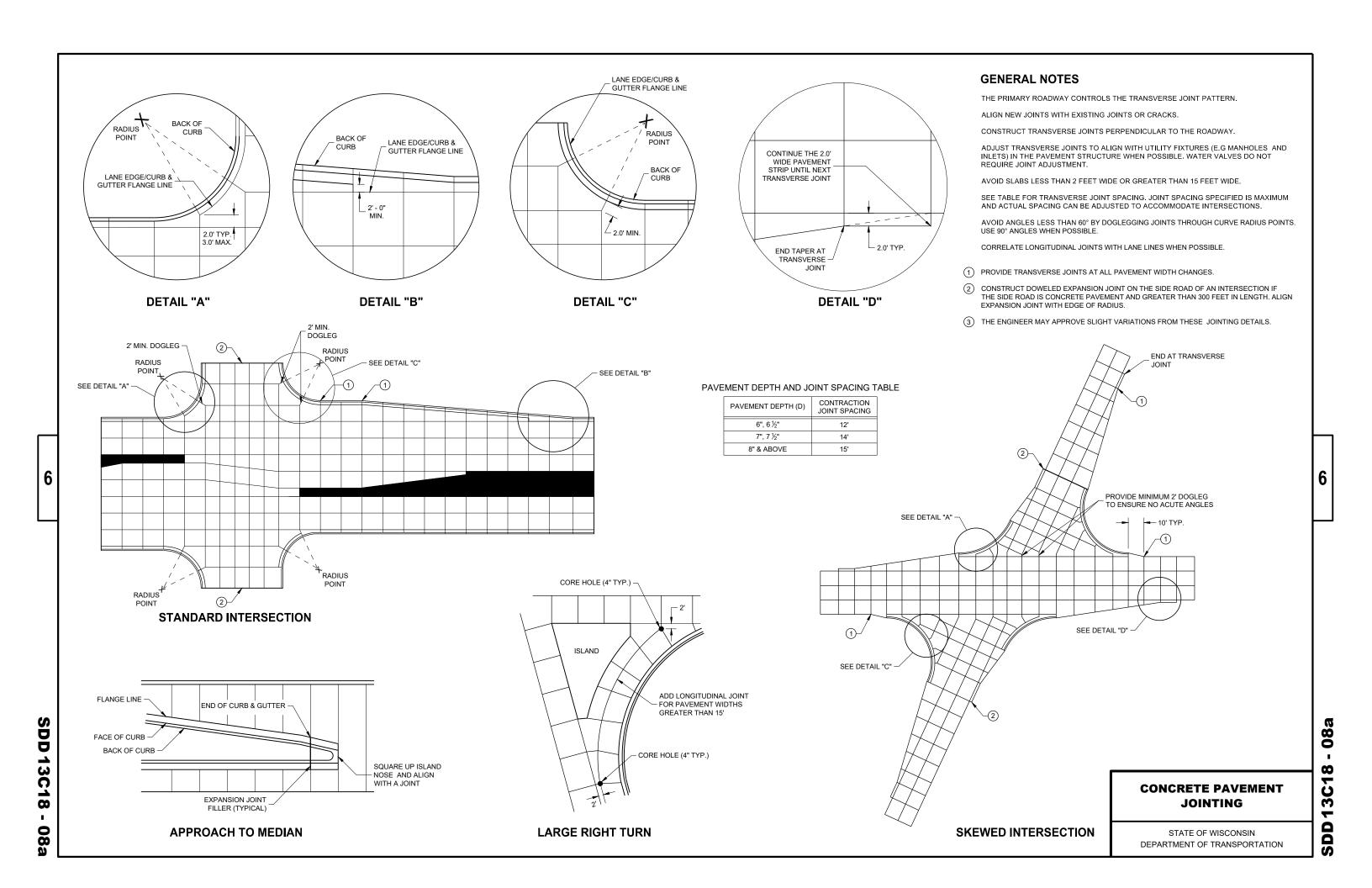
PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8" & ABOVE	1 1/4"	15'

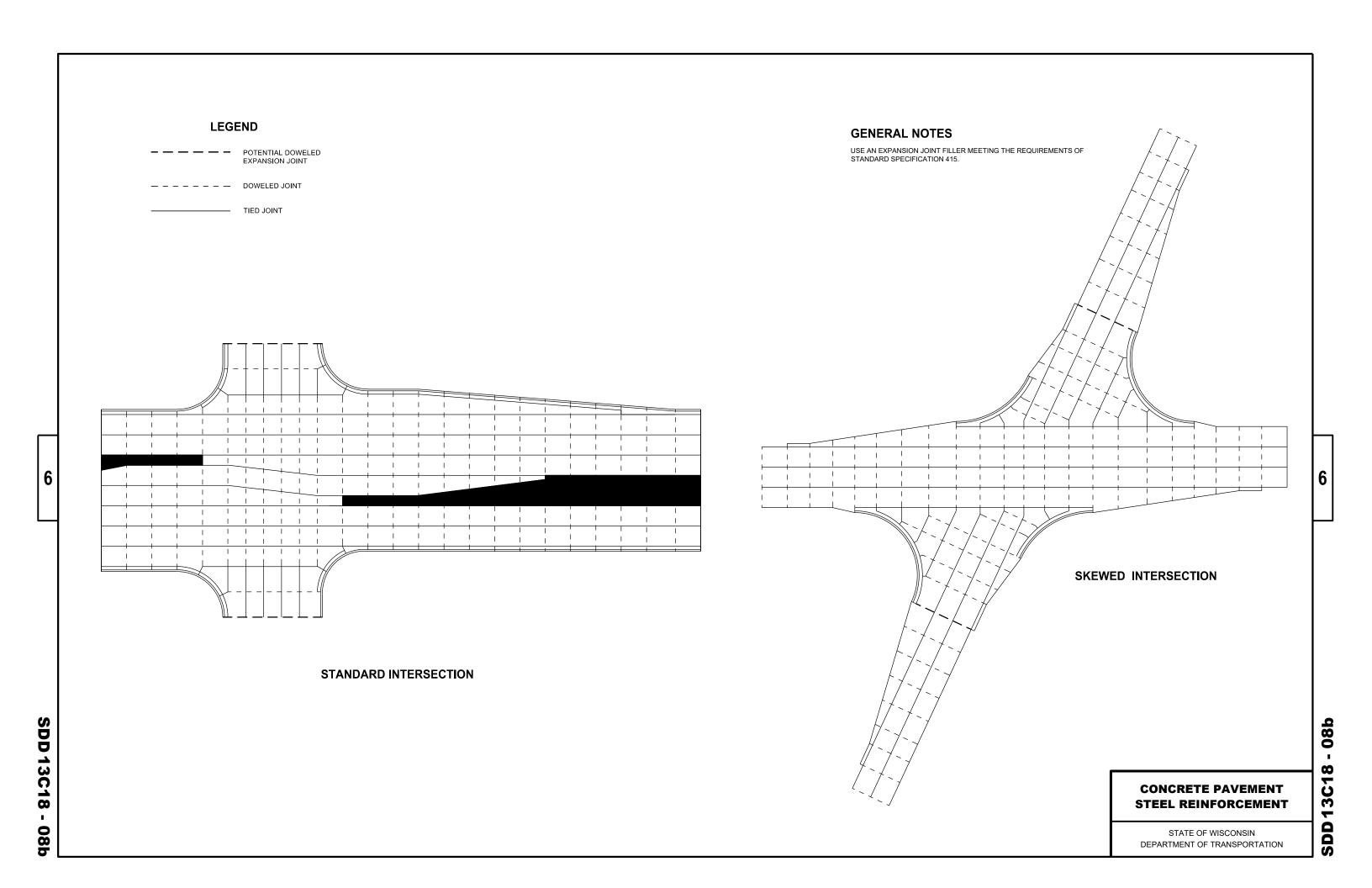
URBAN DOWELED CONCRETE PAVEMENT

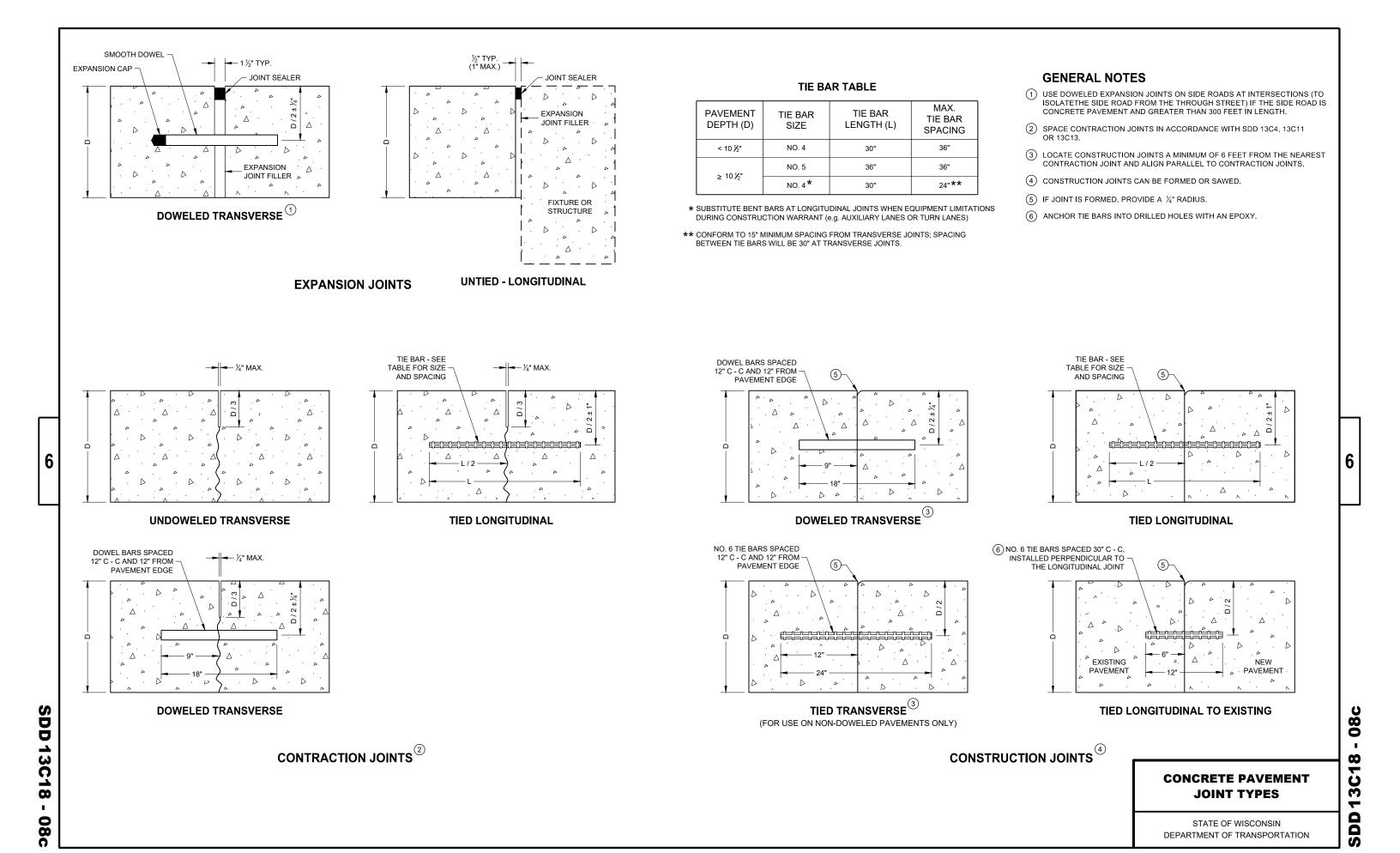
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE PAVEMENT SUPERVISOR

13C



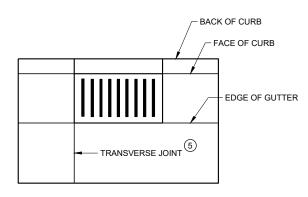




LONGITUDINAL JOINT

NO BOXOUT

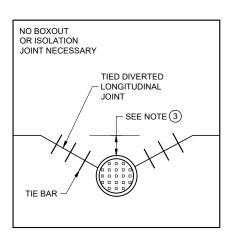




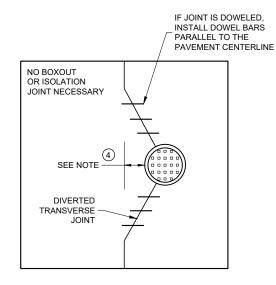
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

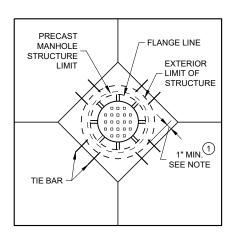
- (1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
- 2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
- $\ensuremath{\mathfrak{J}}$ IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
- (4) IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
- (5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

May 2023 DATE /S/ Peter Kemp P.E. PAVEMENT SUPERVISOR

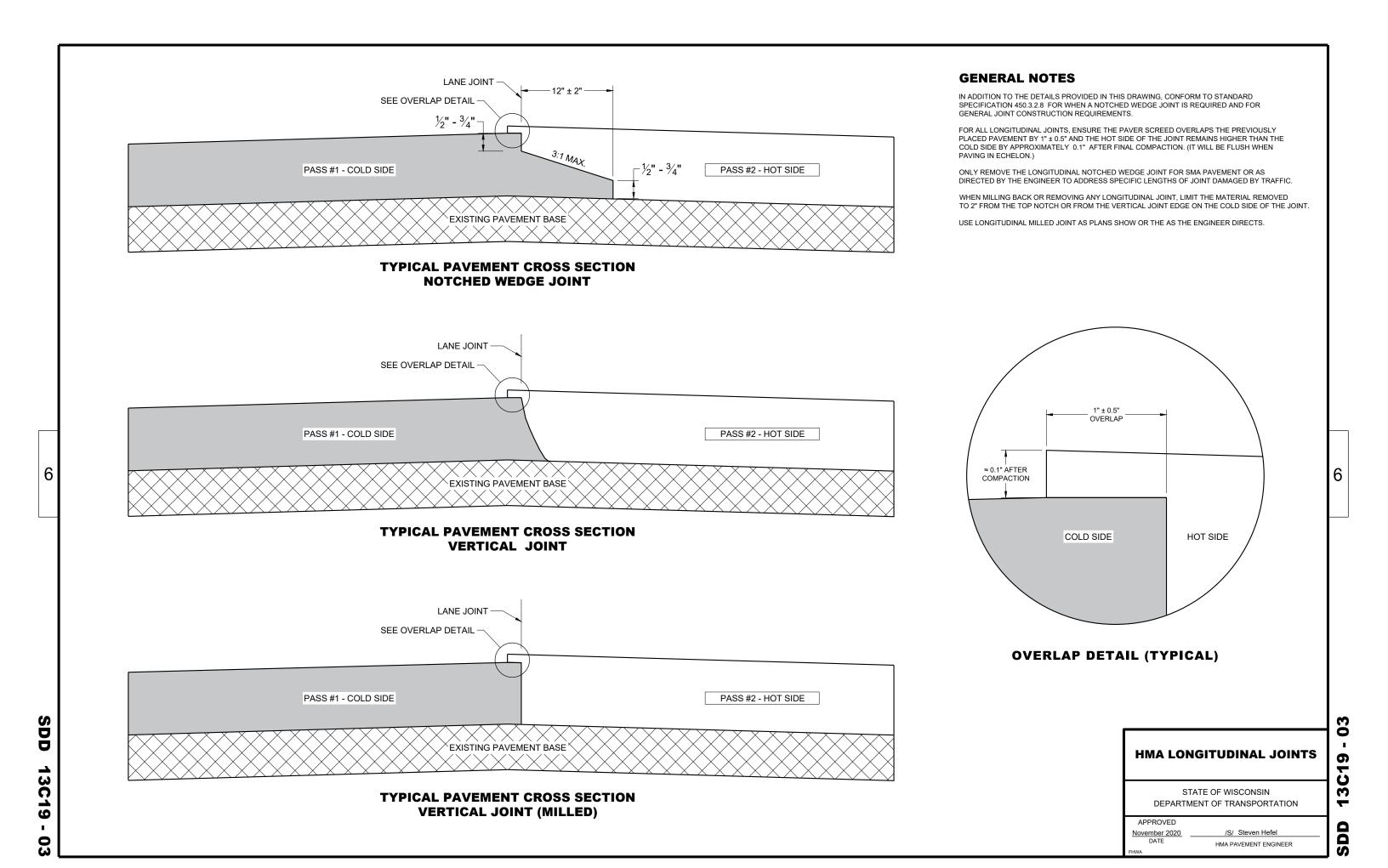
08d

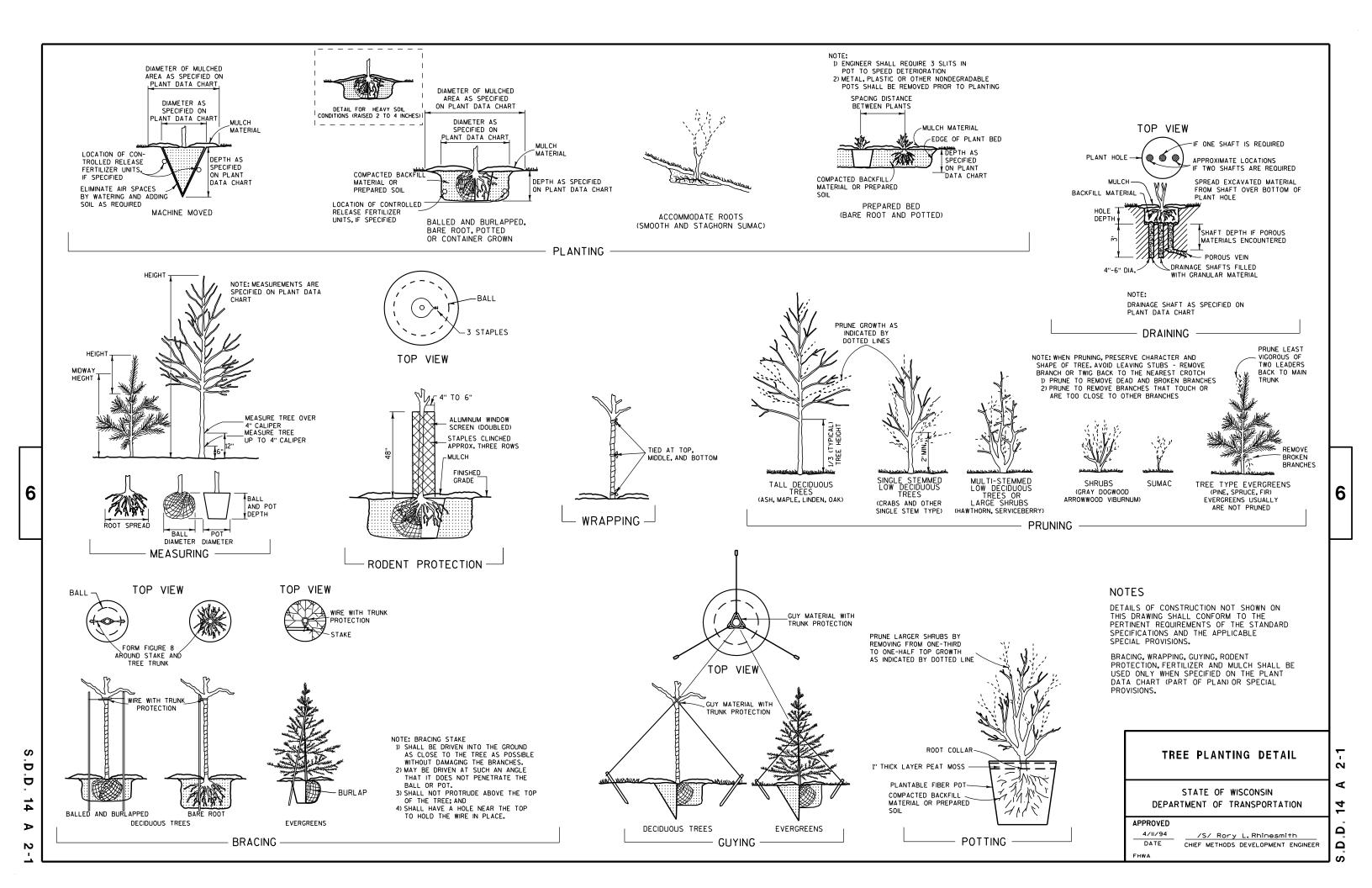
8

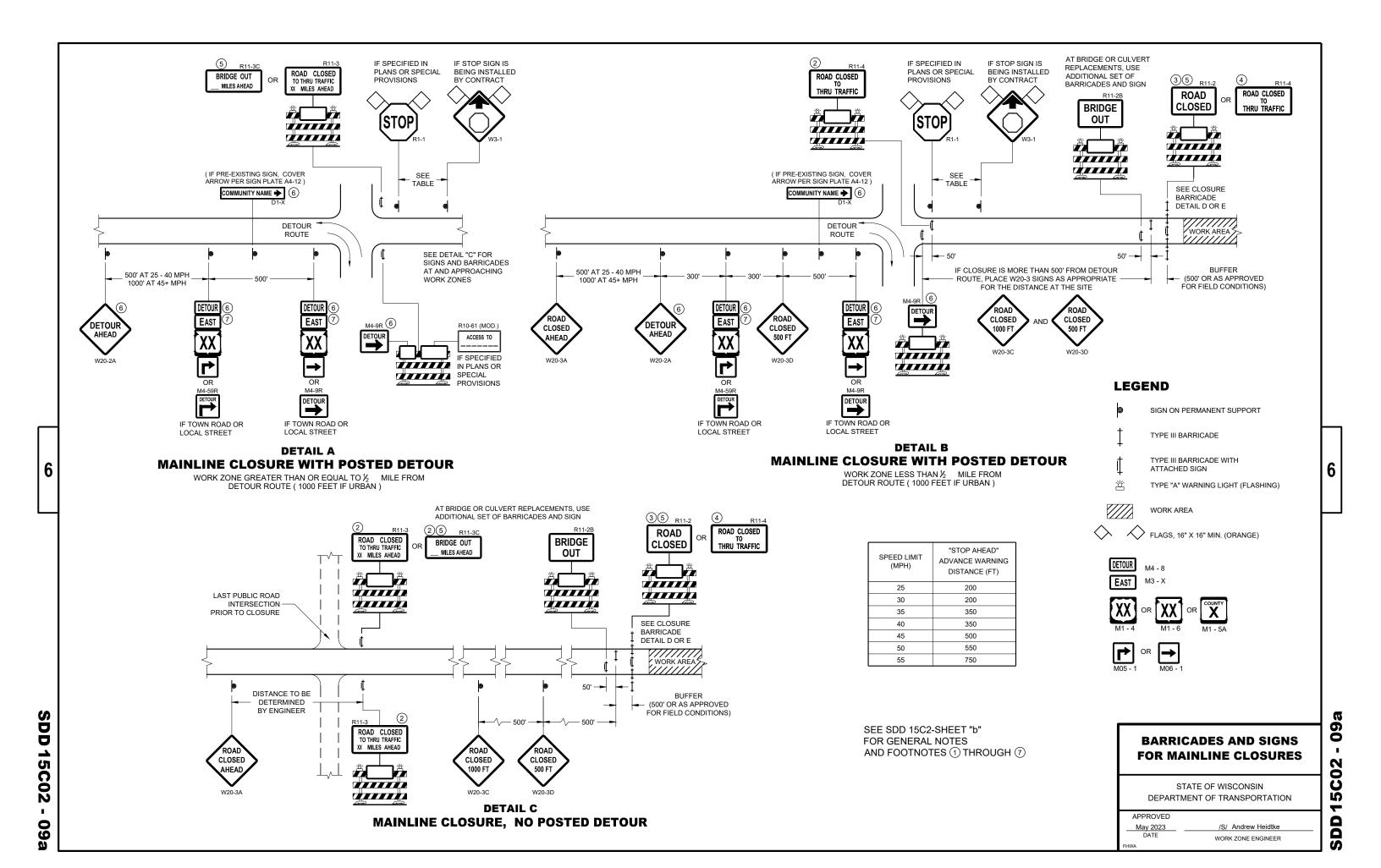
 ∞

3

APPROVED







TWO- WAY

TYPE "A" WARNING

LIGHTS REQUIRED

12" MAX. →

TWO-WAY TYPE "A" WARNING LIGHTS REQUIRED ROAD CLOSED TO THRU TRAFFIC ROAD CLOSED TO THRU TRAFFIC ROAD CLOSED TO THRU TRAFFIC

BRIDGE

OUT

ROAD

CLOSED

RAMP

CLOSED

DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

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

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS) D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 2 AND R11 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

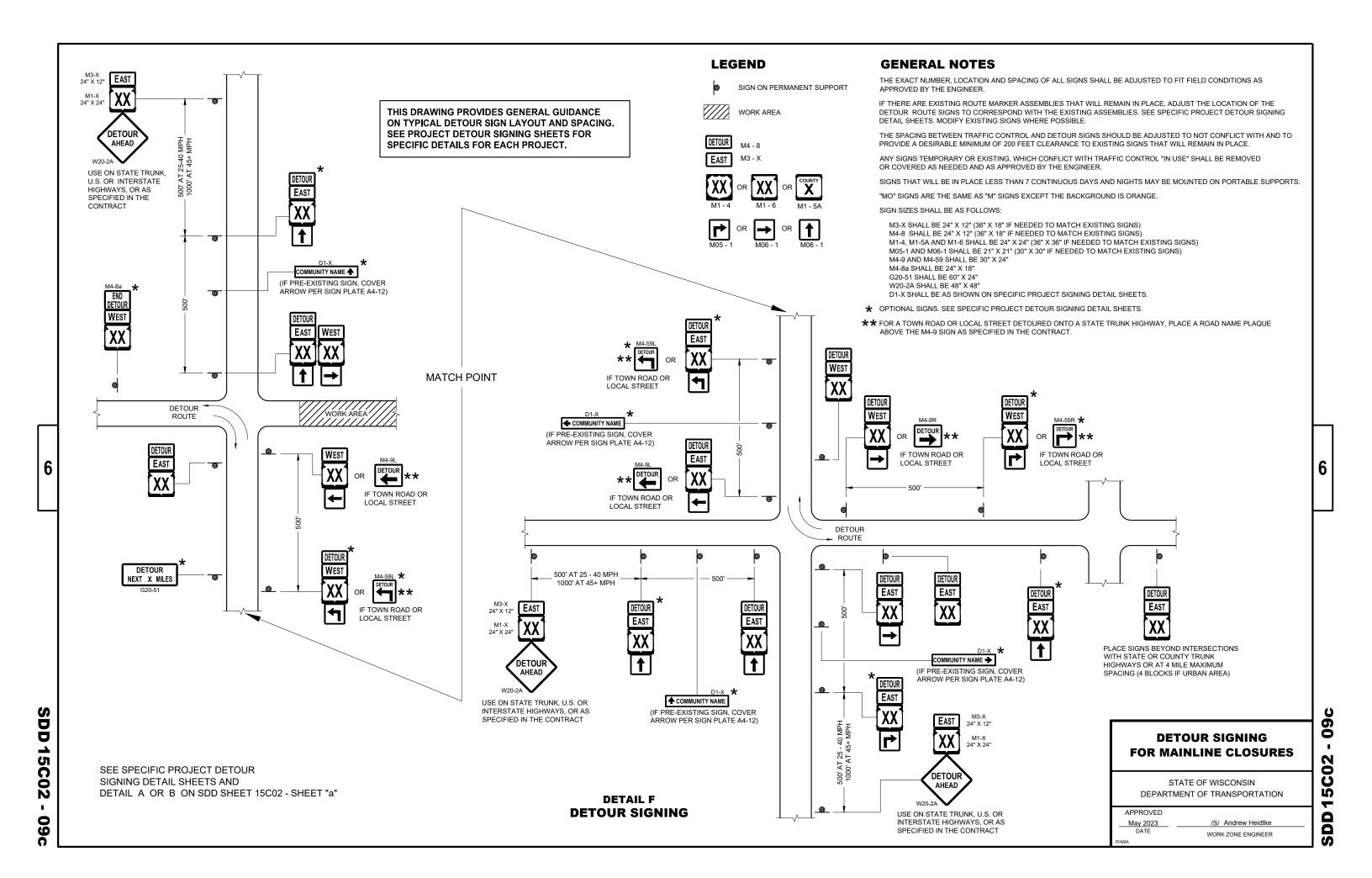
APPROVED May 2023

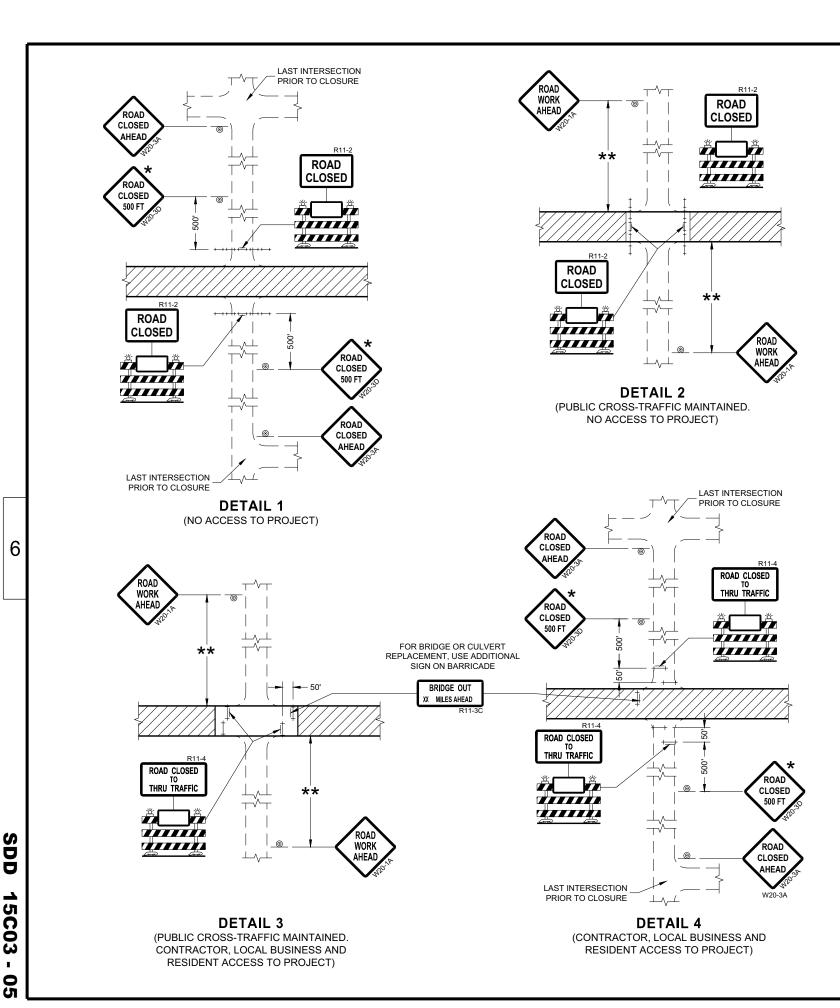
May 2023 /S/ Andrew Heidtke

DATE WORK ZONE ENGINEER

015C02 -

Ò





GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS

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

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

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

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

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

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

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

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

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

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

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

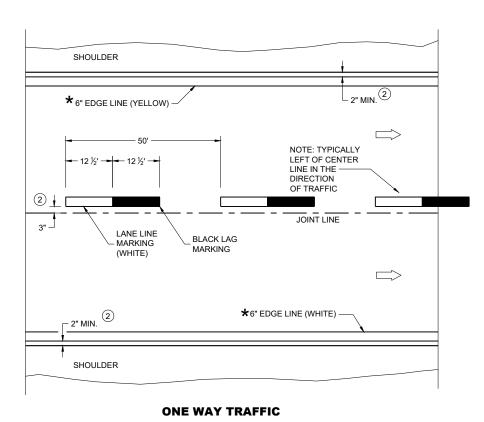
WORK AREA

BARRICADES AND SIGNS FOR **SIDEROAD CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED July 2018 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER ŭ

S



PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

- 1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- (2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

PERMANENT LONGITUDINAL **PAVEMENT MARKINGS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

May 2023 DATE

/S/ Jeannie Silver Statewide Pavement Marking Engineer

6

SDD

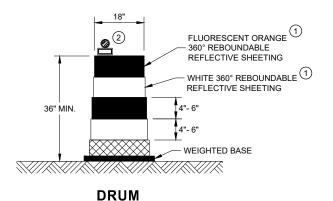
C08-23 Ŋ SD

15C08-23a

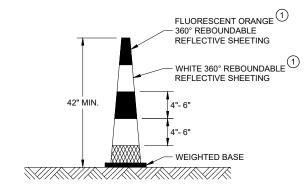
SDD 15C11

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.

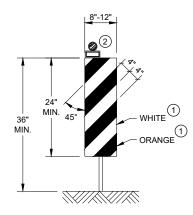


BALLAST WIDTHS RANGE FROM 24"-36"



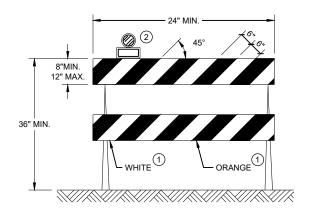
42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



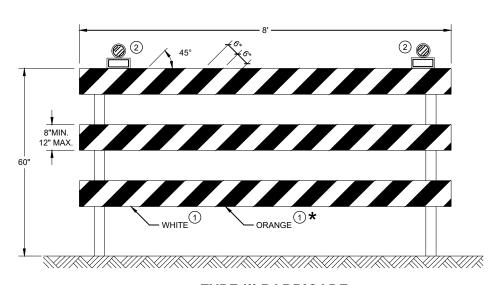
VERTICAL PANEL

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

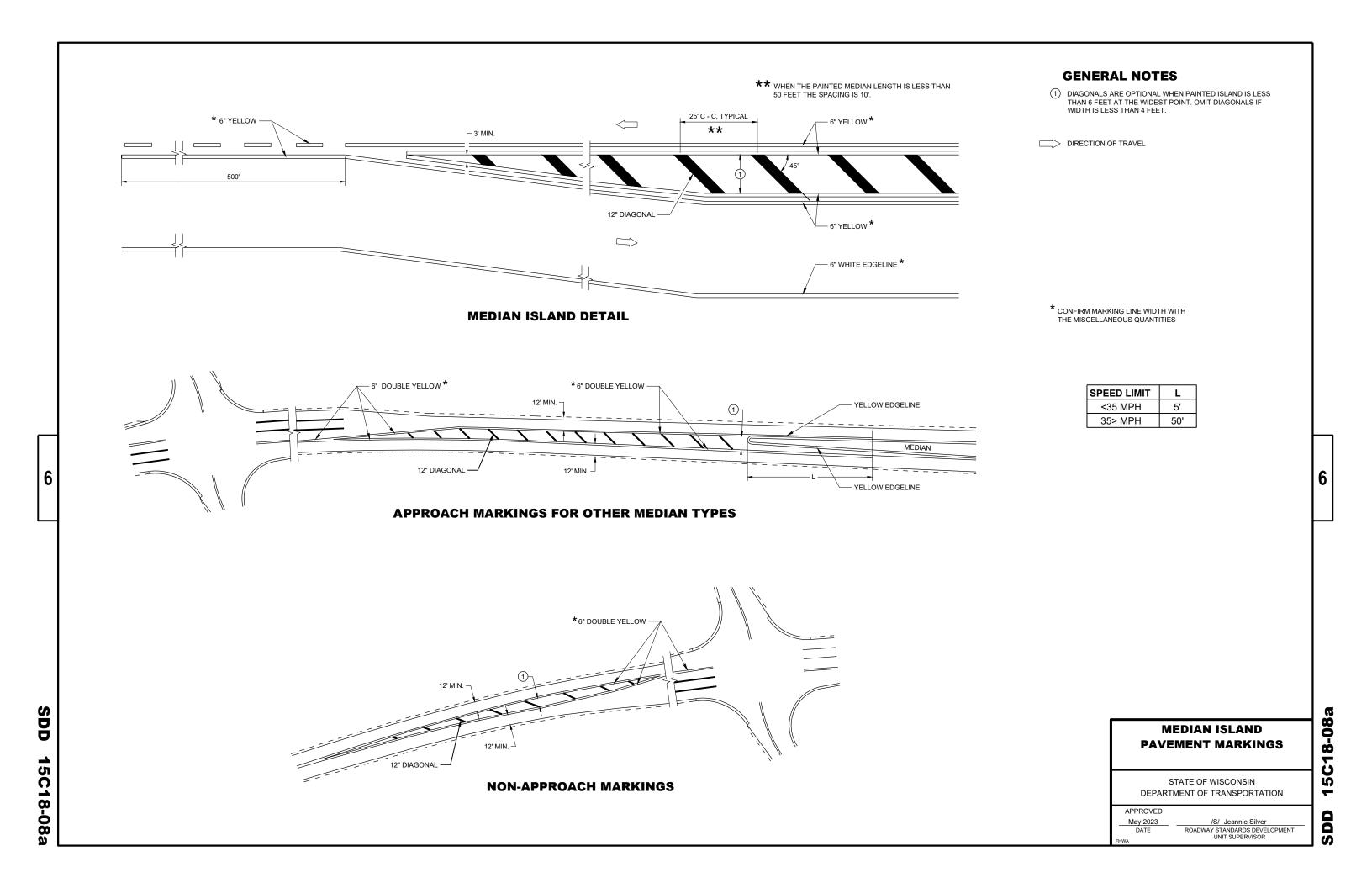
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

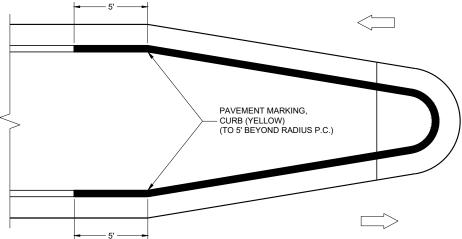
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

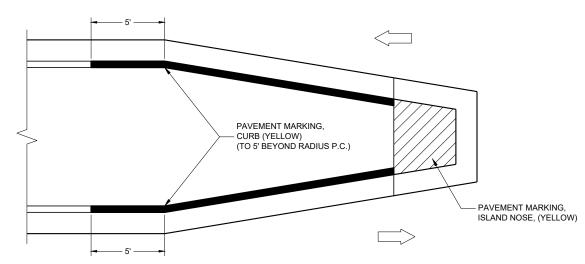
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 50

APPROVED	
November 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	





MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

SDD

15C18-08b

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.

(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS, MEDIAN ISLAND NOSE

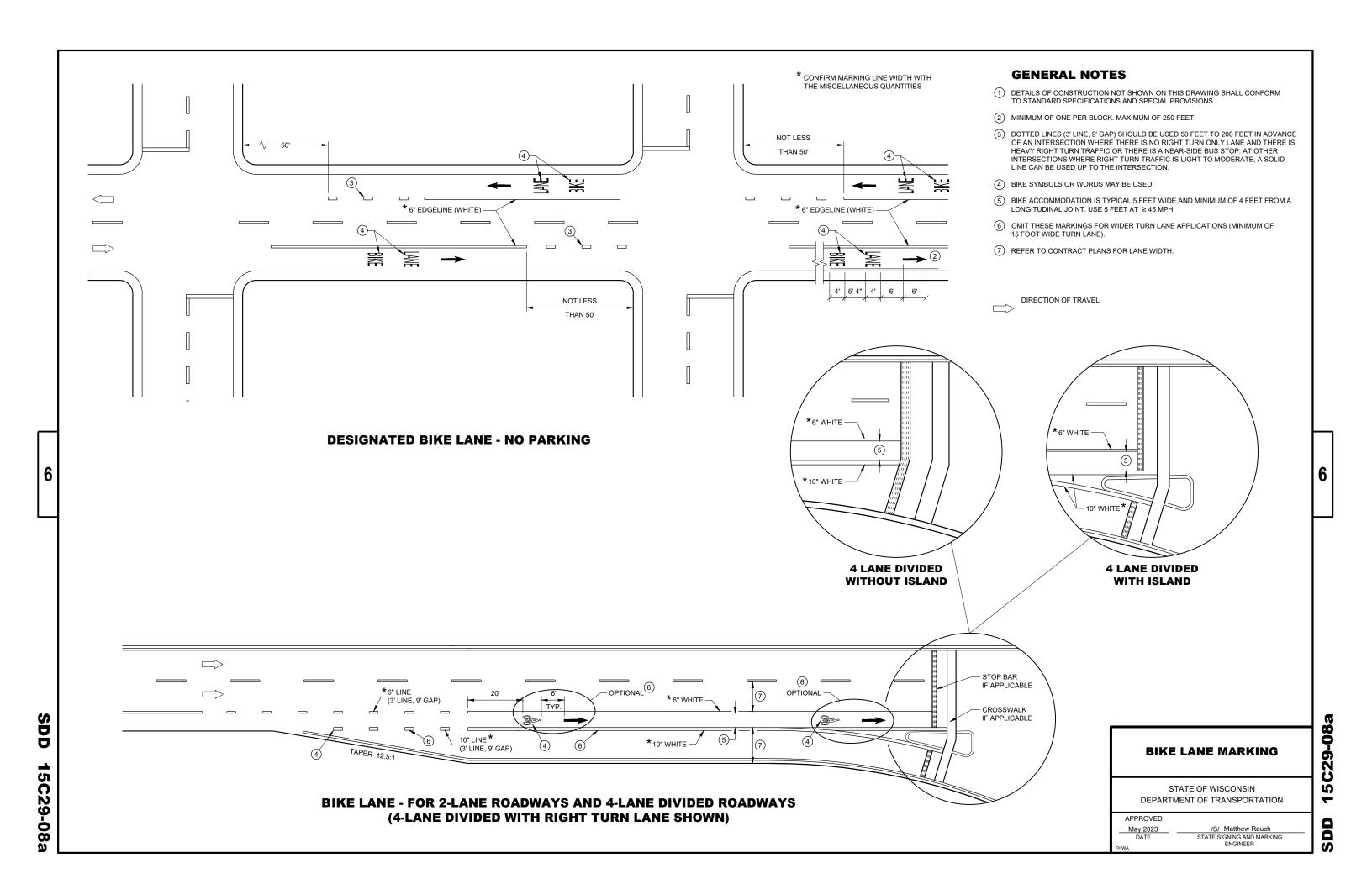
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

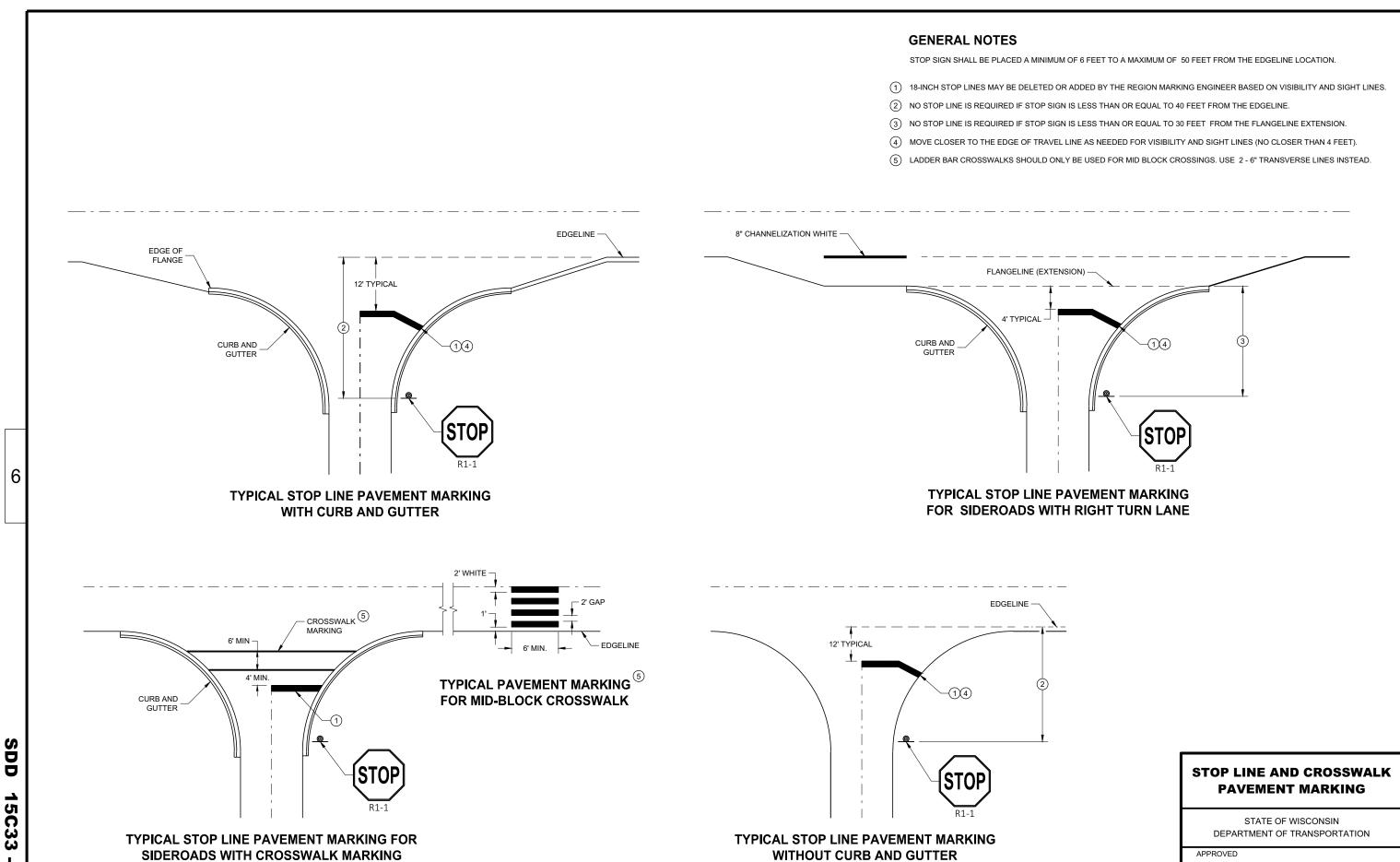
APPROVED
May 2023
DATE

/S/ Jeannie Silver
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

5C18-08b

SDD 15C

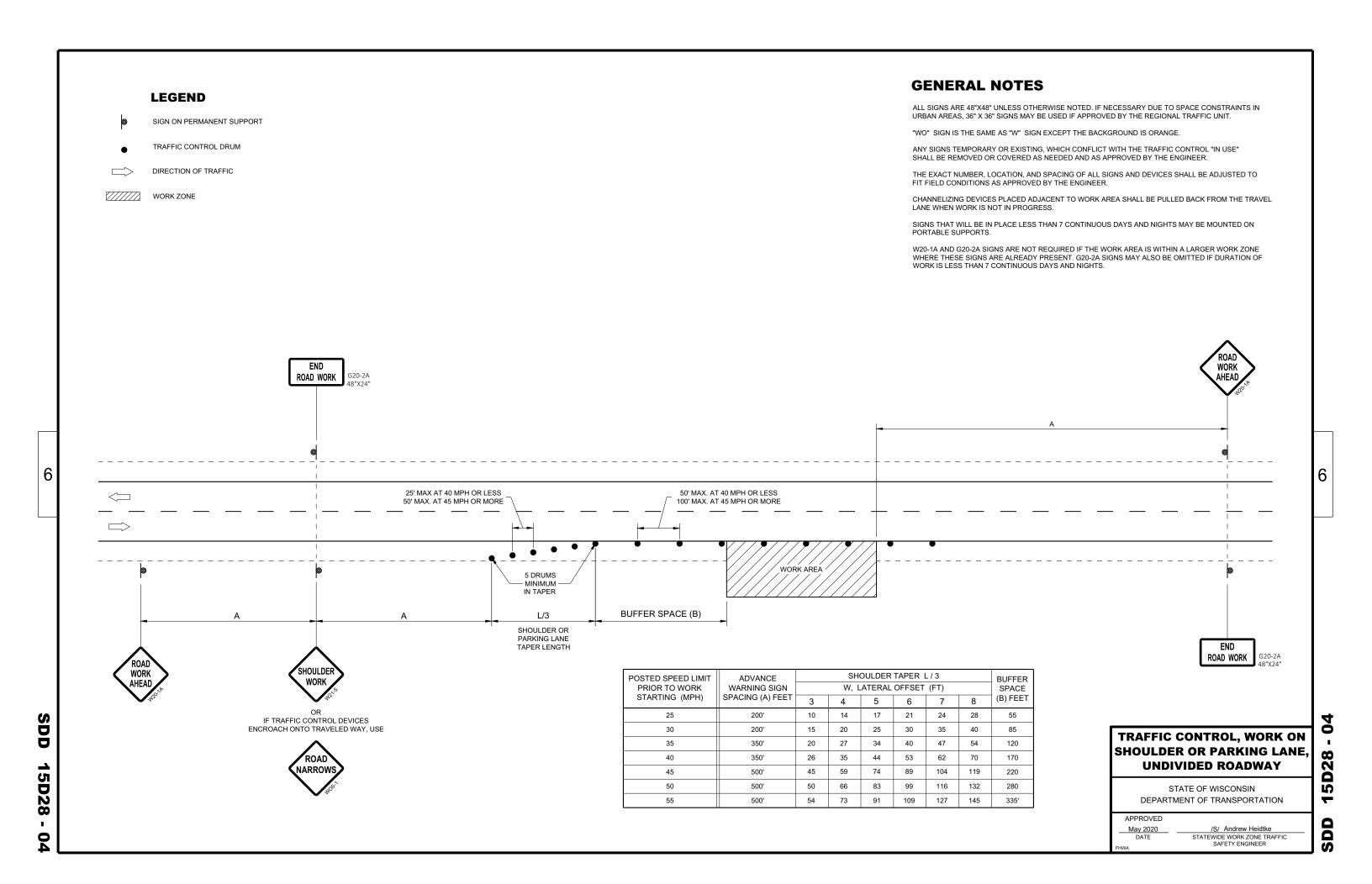




C33 15 SDD

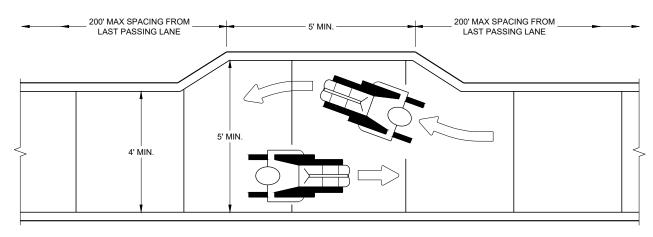
/S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

November 2019 DATE

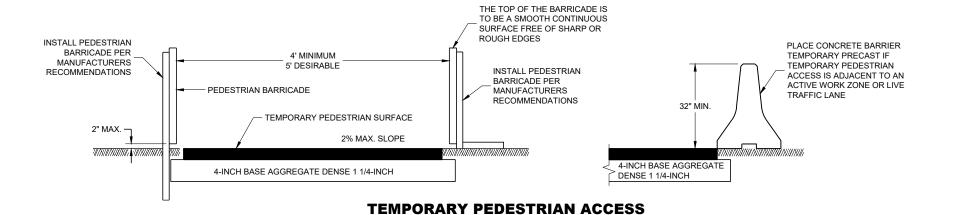


BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

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



NARROW SIDEWALK PASSING DETAIL



WHITE ORANGE OF ASSESSED OF AS

TEMPORARY PEDESTRIAN BARRICADE*

TRAFFIC CONTROL,
PEDESTRIAN
ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

60

15D30

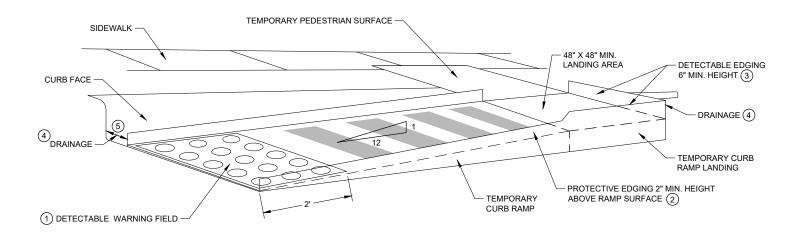
SDD

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

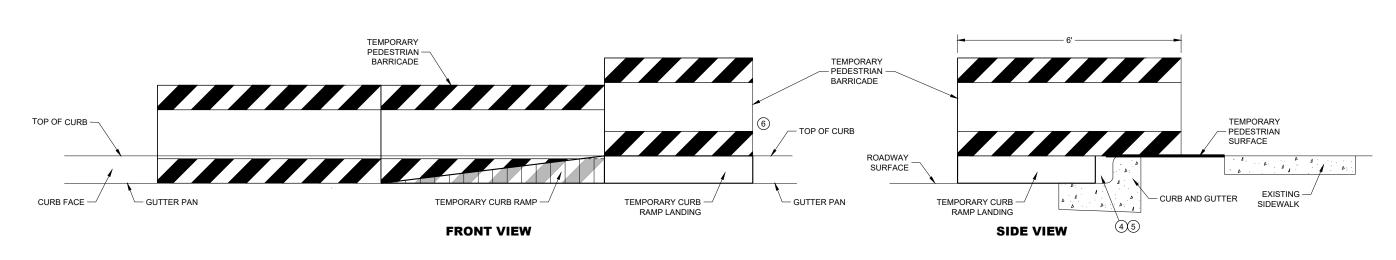
CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN $\frac{1}{2}$ " WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED $\frac{1}{2}$ ". LATERAL EDGES MAY BE VERTICAL UP TO $\frac{1}{4}$ " HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN $\frac{1}{4}$ " AND $\frac{1}{2}$ ".

- (1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS
- (2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- (3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- (4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- 5 ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.
- (6) IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



PERSPECTIVE VIEW



TEMPORARY CURB RAMP PARALLEL TO CURB

TRAFFIC CONTROL,
PEDESTRIAN
ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6

SDD 15D30

SDD 15D30 - 09

LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

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

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN $\slash\!\!/_2$ " WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED $\frac{1}{2}$ ". LATERAL EDGES MAY BE VERTICAL UP TO $\frac{1}{4}$ " HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN

2 PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

3 DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP

4 DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

2 PROTECTIVE EDGING 2" MIN. HEIGHT ABOVE RAMP SURFACE 1 DETECTABLE WARNING FIELD WITH PROTECTIVE EDGE

1) DETECTABLE WARNING FIELD

WITH SIDE APRON $^{\scriptsize{\scriptsize{\scriptsize{\scriptsize{5}}}}}$

SIDEWALK

— TERRACE

PROTECTIVE EDGING (2)

2" MIN. HEIGHT

DRAINAGE

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SDD 15D30 TEMPORARY CURB RAMP PERPENDICULAR TO CURB

TEMPORARY PEDESTRIAN SURFACE

TERRACE -

DRAINAGE

TEMPORARY PEDESTRIAN SURFACE -

FACE

DRAINAGE ___

CURB FACE

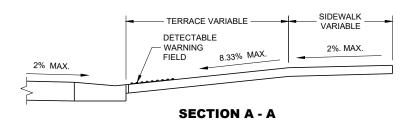
SIDEWALK

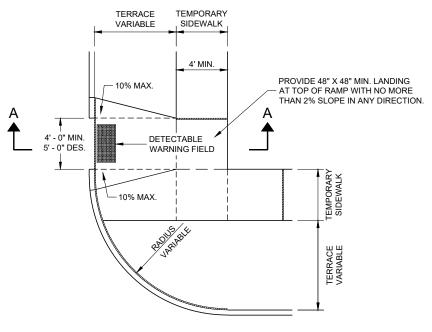
60

5

GENERAL NOTES

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





PLAN VIEW TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

5D30-09d

SDD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2023	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER

6

SDD

15D30-09d

SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

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

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

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

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICTS WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

- 1 IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
- (2) PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
- ③ IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
- 4 MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SD

SDD

15D30

SDD 15D30

SD

LEGEND

SIGN ON PERMANENT SUPPORT

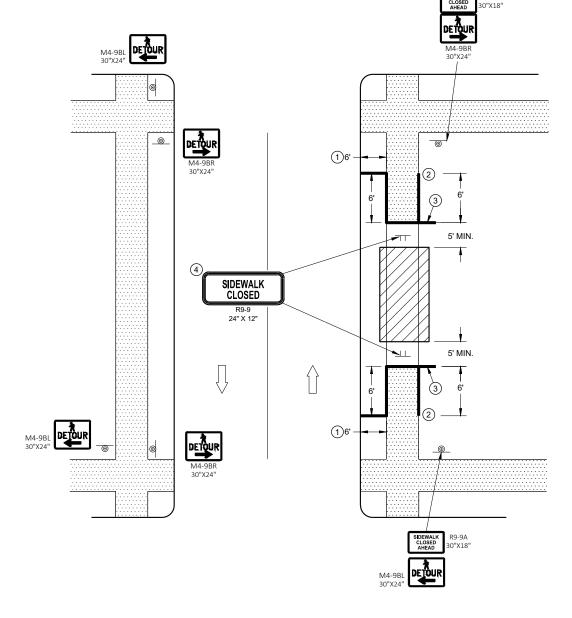
SIGN ON TEMPORARY SUPPORT

UNDER PEDESTRIAN TRAFFIC

WORK AREA

TEMPORARY PEDESTRIAN BARRICADE

DIRECTION OF TRAFFIC



SIDEWALK DETOUR, SIDEWALK ON BOTH SIDES

GENERAL NOTES

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

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

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

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICT WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

- 1 IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
- (2) PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
- (3) IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
- 4 MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

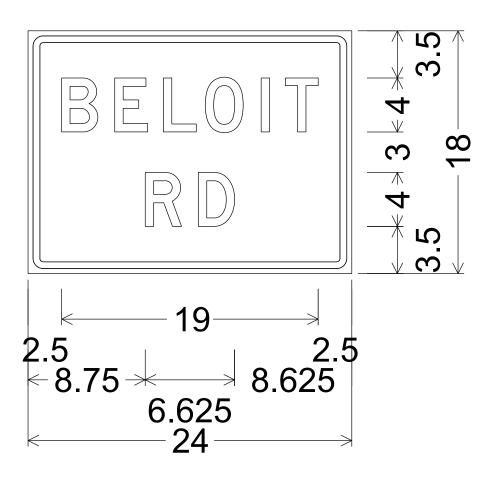
TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

- 1. Fixed Message sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

3. Message Series - D



1.125" Radius, 0.500" Border, 0.375" Indent

PROJECT NO: 2525-03-73 HWY: W. BELOIT ROAD COUNTY: MILWAUKEE TEMPORARY SIGNING SHEET NO:

PLOT DATE: 18-JUL 2022 3:25

FILE NAME: \CAEfiles\Projects\tr_D2_2409b722FMS.dgn

PLOT BY: mscj9h

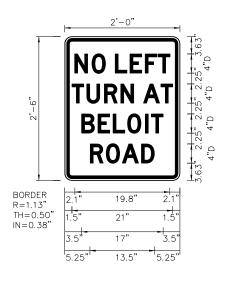
PLOT NAME :



1. SIGN IS TYPE II - TYPE H REFLECTIVE.

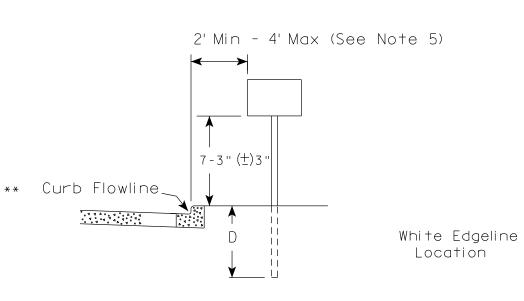
BACKGROUND - WHITE MESSAGE - BLACK

3. MESSAGE SERIES - D

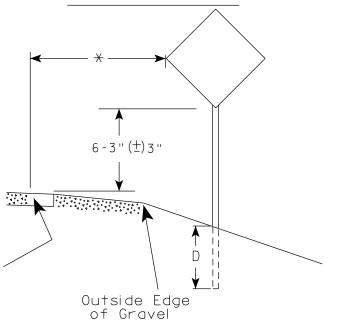


COUNTY: MILWAUKEE E PROJECT NO:2525-03-73 HWY: W BELOIT ROAD SIGNING DETAIL SHEET PLOT BY : GRAEF PLOT NAME :





RURAL AREA (See Note 2)



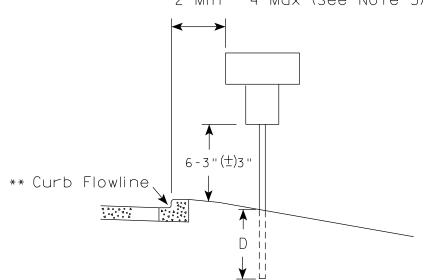
GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm) 3". 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".

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

2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(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.

* 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.

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. __A4-3.23

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



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

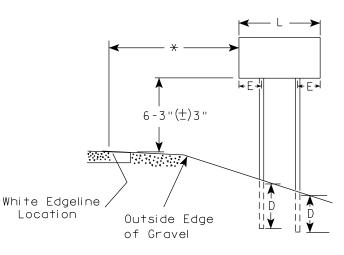
PLOT NAME :

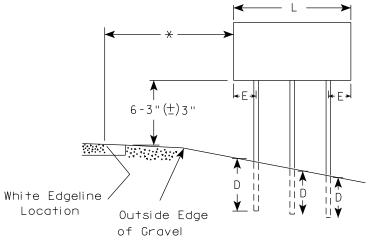
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

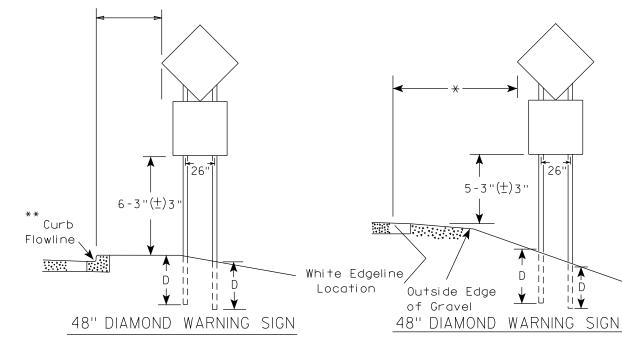
APPROVED

WISDOT/CADDS SHEET 42





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



	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	DIAMOND
(THREE POSTS REQUIR	RED)
L	Е
Greater than 108" to 144"	12''

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" (±) 3" or 6'-3" (±) 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) 3'' or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 3".
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\times \times \times$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

PLATE NO. <u>A4-4.16</u>

Ε

CUEET NO.

SHEET NO:

FILE NAME : C:\CAEfiles\Project\tr_stdplate\A44.dgn

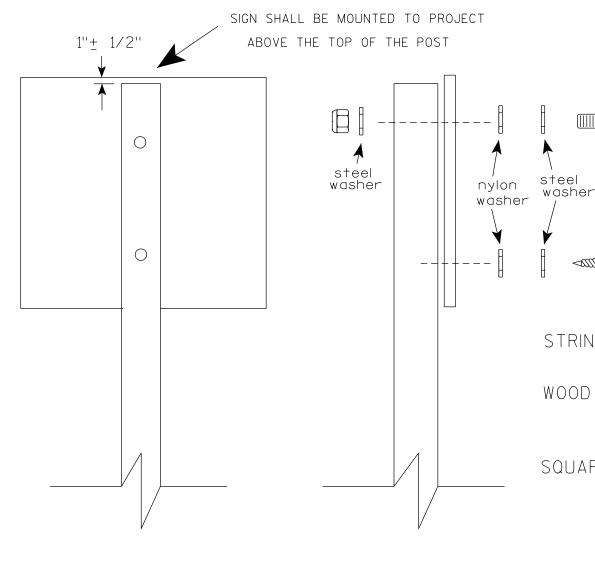
PROJECT NO:

COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h



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 - 3/32 " (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

APPROVED

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

WISCONSIN DEPT OF TRANSPORTATION

Matther ≠or State Traffic Engineer

SHEET NO:



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. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

CHANNEL

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:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

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

PROJECT NO:

31/2"

VIEW FROM TOP

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 $1^{1}/_{4}$ " O.D. X $3/_{16}$ " I.D. X $1/_{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

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

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/19/2022 PLATE NO. A5-10.3

SHEET NO:

APPROVED

PROJECT NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgr

PLOT DATE: 19-APRIL 2022 11:55

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

SIGN

- 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.

C —		
		H
		F H B
		F G
←		
I	G20-2A	I

SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	V	W	X	Υ	Z	Area sq. ft.
1	36	18	1 1/2	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
2	48	24	1 1/8	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2												8.0
2M	48	24	1 1/8	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2												8.0
3	48	24	1 1/8	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2												8.0
4	48	24	1 1/8	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2												8.0
5	48	24	1 1/8	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2												8.0

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rauch

For State Traffic Engineer

DATE 1/26/2023 PLATE NO. G20-2A.10

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G202A.dgn

PROJECT NO:

HWY:

PLOT DATE: 26-JAN 2023 8:27

PLOT BY : dotc4c

PLOT NAME :

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

Background - Orange Message - Black

- 3. Message Series B
- 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	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
			- / 2	/ 0	/ 2		, , ,	, , ,	- / 2																		<u> </u>

COUNTY:

STANDARD SIGN M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthe R Rauch

DATE 2/9/2023 PLATE NO. M4-8.4

SHEET NO:

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\M48.dgn

HWY:

PLOT DATE : 9-FEB 2023 7:38

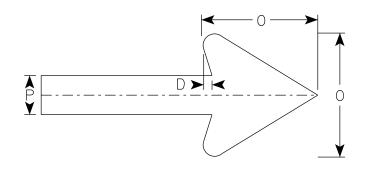
PLOT BY : dotc4c

PLOT NAME :

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

Background - Orange 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. M4-9BL is the same as M4-9BR except the arrow is reversed.



Arrow Detail

SIZE	Α	В	С	D	E	F	G	Н	Т	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	l w	X	Υ	Z	Area sq. ft.
1		_	_											,							_						34. 11.
25	30	24	1 1/2	3/8	1/2	5	5 1/4	7 1/8	3 3/4	1	1 1/8	1 ⁵ / ₈	11 3/4	7	6	2											5.0
2M	30	24	1 1/2	3/8	1/2	5	5 1/4	7 1/8	3 3/4	1	1 1/8	1 ⁵ ⁄ ₈	11 3/4	7	6	2											5.0
3																											
4																											
5																											

COUNTY:

M4-9BR

STANDARD SIGN M4-9B L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Mathew R Raw Forstate Traffic Engineer

DATE <u>2/9/2023</u> PLATE NO. <u>M4-9B.4</u>

SHEET NO:

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M49B.dgn

HWY:

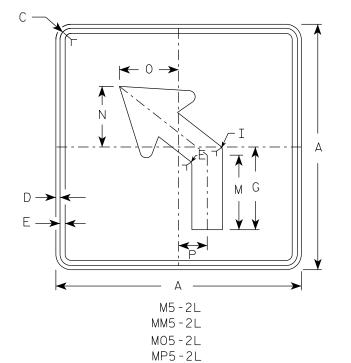
PROJECT NO:

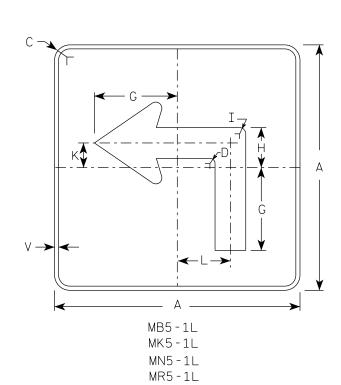
PLOT DATE: 9-FEB 2023 11:55

PLOT BY : dotc4c

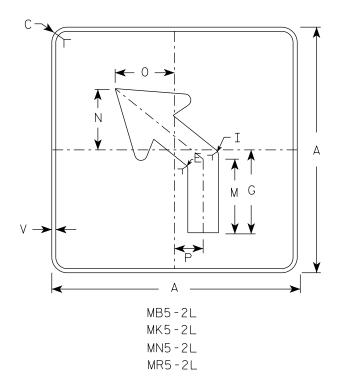
PLOT NAME :

M5-1L MM5-1L M05-1L MP5-1L





HWY:



NOTES

- 1. Signs are Type II Type H reflective except as shown

Background - See note 4 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.
- M5-1 and M5-2 Background White Message – Black

MB5-1 and MB5-2 Background - Blue

Message - White

MK5-1 and MK5-2 Background - Green

Message - White

MM5-1 and MM5-2 Background - White

Message - Green

MN5-1 and MN5-2 Background - Brown

Message - White

M05-1 and M05-2 Background - Orange - Type F Reflective

Message - Black

MP5-1 and MP5-2 Background - White

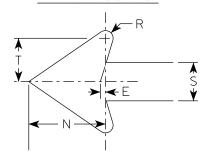
Message - Blue

MR5-1 and MR5-2 Background - Brown

Message - Yellow

- 5. M5-1R same as M5-1L except arrow points right.
- 6. M5-2R same as M5-2L except arrow tilts right.

ARROW DETAIL



1																										
SIZE	Α	В	С	D	E	F	G	Н	Ι	J	K	L	М	N	0	Р	Q	R	S	Т	V	W	X	Y	Z	Area sq. ft.
1																										
25	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2	3	1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1/2					3.06
3	30		1 1/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1/2					6.25
4	30		1 1/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1/2					6.25
5	30		1 1/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1/2					6.25

COUNTY:

STANDARD SIGN M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Forstate Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_M51.dgn

PROJECT NO:

PLOT DATE: 13-FEB 2023 10:05

PLOT BY : dotc4c

PLOT NAME :

- 1. Signs are Type II Type H Reflective except as Shown
- 2. Color:

Background - See note 4 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. M6-1 and M6-2 Background White Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

M06-1 and M06-2 Background - Orange - Type F Reflective

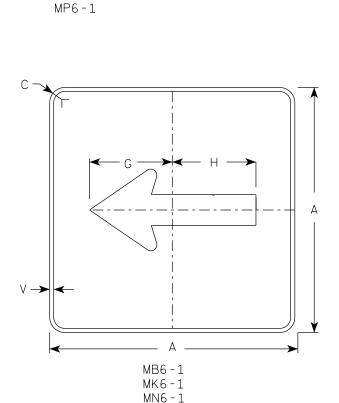
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



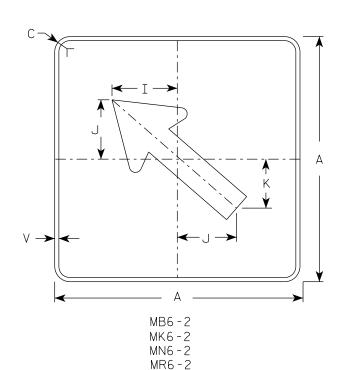
MR6-1

HWY:

M6 - 1

MM6 - 1

M06-1



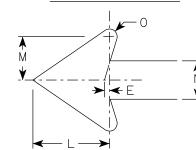
M6-2

MM6 - 2

MO6-2

MP6-2

ARROW DETAIL



SIZE	. Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
25	1 21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30)	1 1/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30)	1 1/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30)	1 1/8	1/2	5/8		10 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16 SHEET NO:

Ε

PLOT BY : dotc4c PLOT NAME :

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

FILE NAME: C:\CAEfiles\Projects\tr_stdplate_M61.dgn

PROJECT NO:

PLOT DATE: 13-FEB 2023 1:30



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

Background - Red Message - White

3. Message Series - C

*								— А — ;											A	
									H			- G -							F	A
		E						 	-1			_//								*
D	E	F	G	н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

COUNTY:

STANDARD SIGN R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE <u>11/12/15</u>

PLATE NO. _____R1-1.13

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN

HWY:

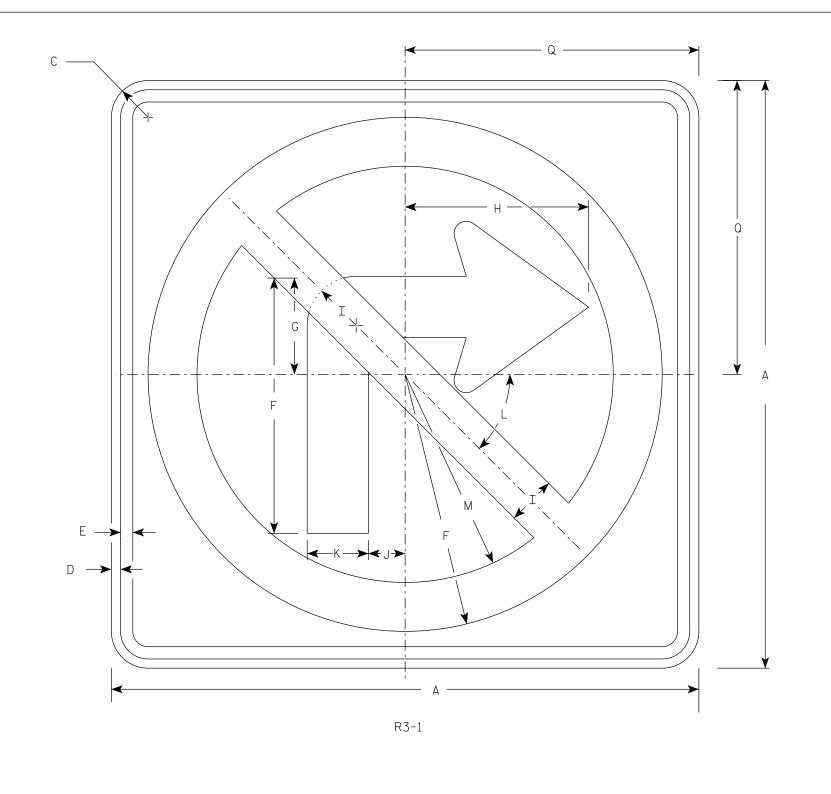
PROJECT NO:

PLOT DATE: 22-AUG-2017 07:19

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

PLOT SCALE: 4.427909:1.000000

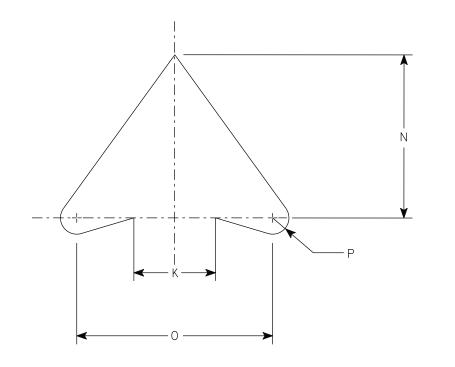
WISDOT/CADDS SHEET 42



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

Background - White Message - See note 3

3. 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	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1	24		1 1/2	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	12										4.0
25	24		1 1/2	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	12										4.0
2M	36		2 1/4	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	18										9.0
3	36		2 1/4	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	18										9.0
4	36		2 1/4	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	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17 10	12	1	24										16.0

COUNTY:

STANDARD SIGN R3-1

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

PPROVED

Matthew R Laure

For State Traffic Engineer

DATE 2/2/23 PLATE NO. R3-1.6

FILE NAME : C:\CAEfiles\Projects\tr-stdplate\R31.dgn

HWY:

PROJECT NO:

PLOT DATE: 9-JULY 2024 1:51

PLOT BY : mscj9h

PLOT NAME :

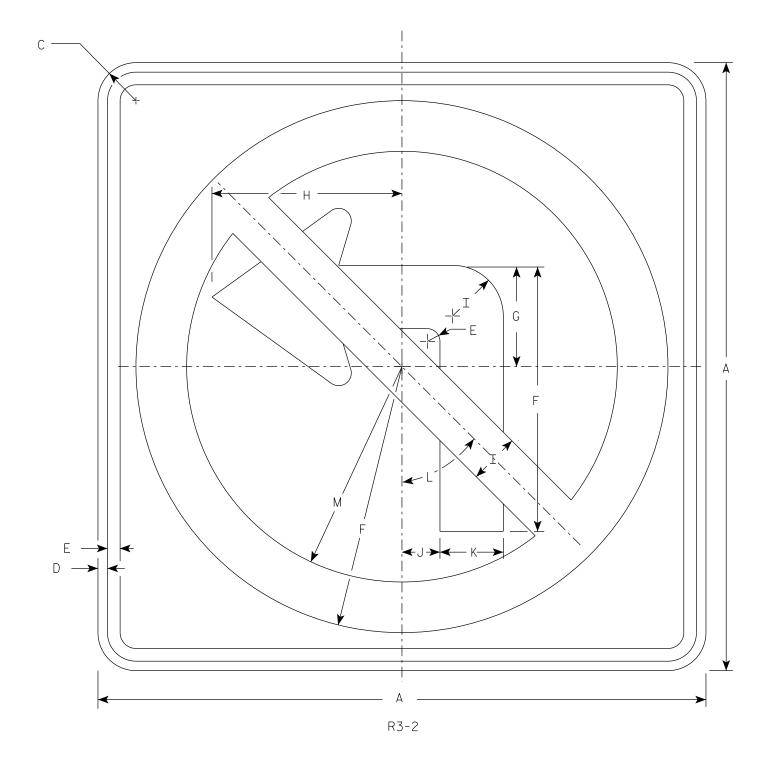


- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White

Message - See note 3

3. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



N N N N

ARROW DETAIL

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	24		1 1/2	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 1/2	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
2M	36		2 1/4	5/8	3/4	15 ¾	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		2 1/4	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		2 1/4	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

SHEET NO:

APPROVED Matthew & & Forstate Traffic Engineer

DATE <u>2/2/23</u>

PLATE NO. <u>R3-2.11</u>

Ε

FILE NAME : C::CAEfiles\Projects\tr_stdpldate\R32.dgn

PROJECT NO:

HWY:

PLOT DATE: 9-JULY 2024 2:11

PLOT BY: mscj9h

PLOT NAME :

- 1. Sigs are Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 4. Use appropriate Letter for Sign Code Each letter added makes sign wider. Example R3-8EAR
- 5. Square footage of sign varies by letters

2 Letters = 7.5 sq ft for Size 2

12.0 sq ft for Size 3

20.0 sq ft for Size 4 or 5

3 Letters = 11.25 sq ft for Size 2

18.0 sq ft for Size 3

30.0 sq ft for Size 4 or 5

4 Letters = 15.0 sq ft for Size 2

24.0 sa ft for Size 3

40.0 sq ft for Size 4 or 5

5 Letters = 18.75 sq ft for Size 2

30.0 sa ft for Size 3

50.0 sq ft for Size 4 or 5

6 Letters = 22.5 sq ft for Size 2

36.0 sq ft for Size 3

60.0 sq ft for Size 4 or 5

6. When letters C,D,G,J are used on the Left or Right end of the sign the Sq. Ft. changes.

Add the amounts when these letters are used:

1.25 sq ft for Size 2 1.5 sa ft for Size 3

2.0 sq ft for Size 4 or 5

STANDARD SIGN R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther State Traffic Engineer

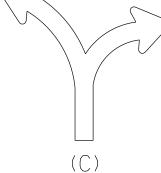
DATE 2/14/23 PLATE NO. R3-8.2

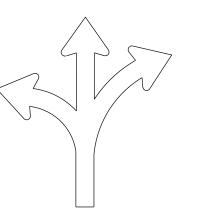
SHEET NO:

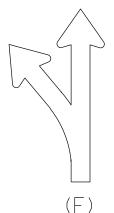


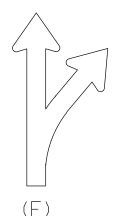


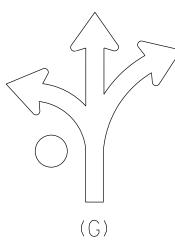


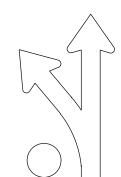






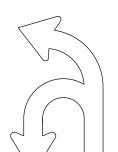


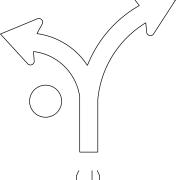




(H)

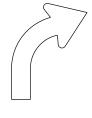
FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

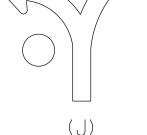












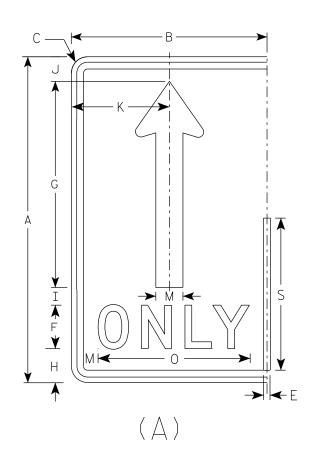
PROJECT NO:

Ε

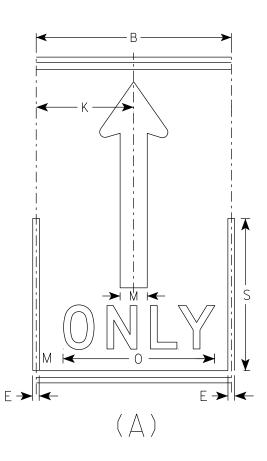
- 1. Sign is Type II Type H Reflective
- 2. Color:

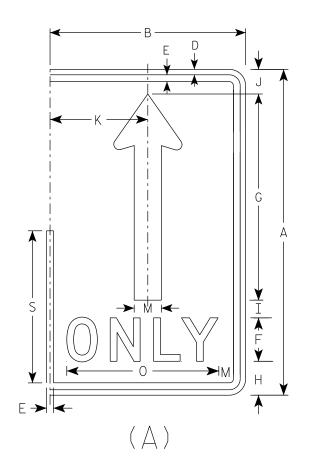
Background - White Message - Black

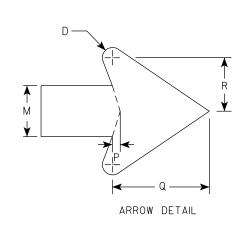
3. Message Series - D



HWY:







SIZE	А	В	С	D	E	F	G	П	I	J	K	L M	Ν	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																										
25	30	18	1 1/2	1/2	5/8	4	19	3 1/8	1	2 1/4	9	2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 1/2	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9	2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 1/2	1/2	5/8	5	22 ¾	3 3/4	1 3/4	2 3/4	12	3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 1/8	3 %	15	4		21 3/4	5/8	7 %	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 1/8	3 %	15	4		21 3/4	5/8	7 %	4 1/4	22 3/8								10.0

STANDARD SIGN R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

DATE <u>2/14/23</u>

PLATE NO. <u>R3-8.2</u>

Ε

PROJECT NO:

COUNTY:

PLOT DATE: 14-FEB 2023 3:04

PLOT BY : mscj9h

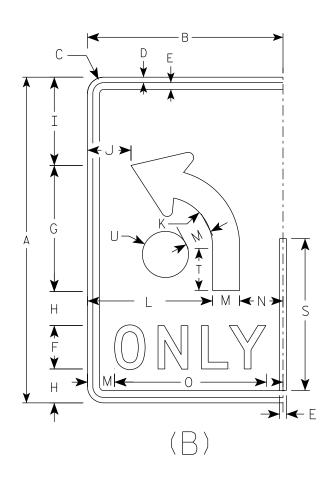
PLOT NAME :

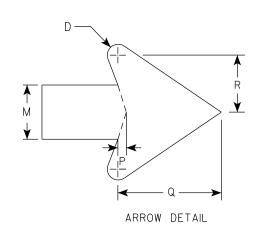
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

FILE NAME: C:\CAEfiles\Projects\stdplate_R38.dgn

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

Background - White Message – Black Message Series - D





SIZ	E A	А	В	С	D	E	F	G	Н	I	J	K	L	М	Ν	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																												
25	3	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2	14	3 1/8	2 1/8						3.75
21	1 3	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2	14	3 1/8	2 1/8						3.75
3	3	36	24	1 1/2	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	4	48	30	2 1/4	3/4	1	6	18	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

R3-8 (B) Arrow WISCONSIN DEPT OF TRANSPORTATION

STANDARD SIGN

APPROVED Matther f_{or} State Traffic Engineer

DATE <u>2/14/23</u> PLATE NO. <u>R3-8.2</u>

SHEET NO: Ε PLOT BY: mscj9h

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

PROJECT NO:

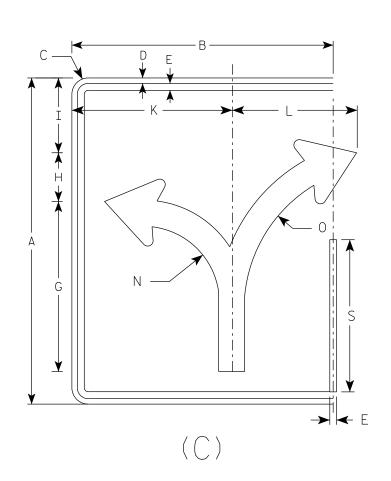
PLOT DATE: 14-FEB 2023 3:19

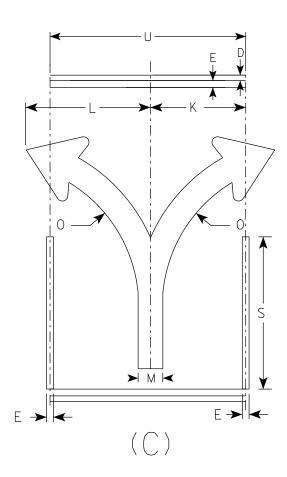
- 1. Sign is Type II Type H Reflective
- 2. Color:

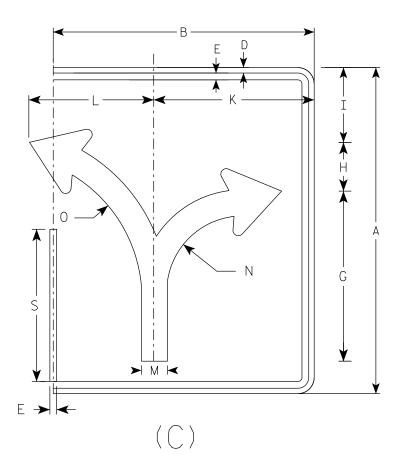
Background - White Message - Black

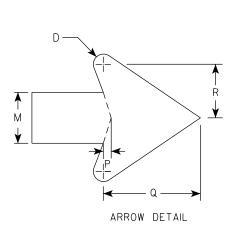
3. Message Series - None

ENDS MIDDLE









1																										I		
SIZE	А	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.	Area sq. ft.
1																												
25	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	6 1/8	1	4 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	6 1/8	1	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 1/2	1/2	5/8		18 3/4	5 1/2	8 1/4	1	17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7 . 5	6.0
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11	2	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	11	2	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

COUNTY:

STANDARD SIGN R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

 \mathcal{F}_{or} State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

SHEET NO:

HWY:

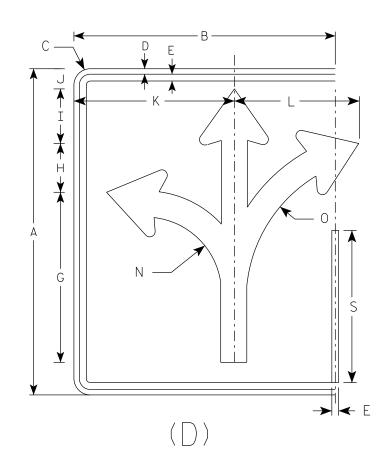
PROJECT NO:

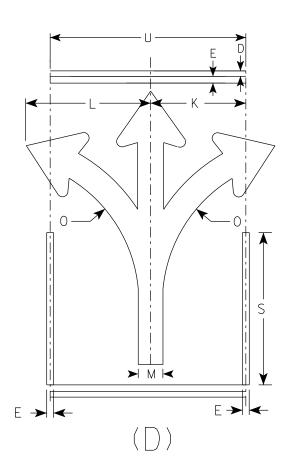
- 1. Sign is Type II Type H Reflective
- 2. Color:

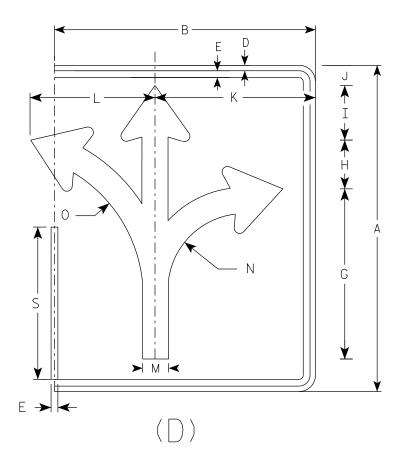
Background - White Message - Black

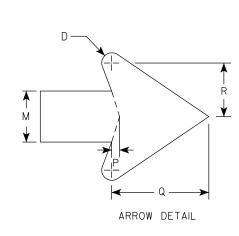
3. Message Series - None

ENDS MIDDLE









SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.	Area sq. ft.
1																												
25	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	5	1 1/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 1/2	1/2	5/8		15 %	4 1/2	5	1 1/8	14 ¾	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 1/2	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE <u>2/14/23</u> PLATE NO. R3-8.2 SHEET NO:

Ε

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\stdplate_R38.dgn

HWY:

COUNTY: PLOT DATE: 14-FEB 2023 3:20

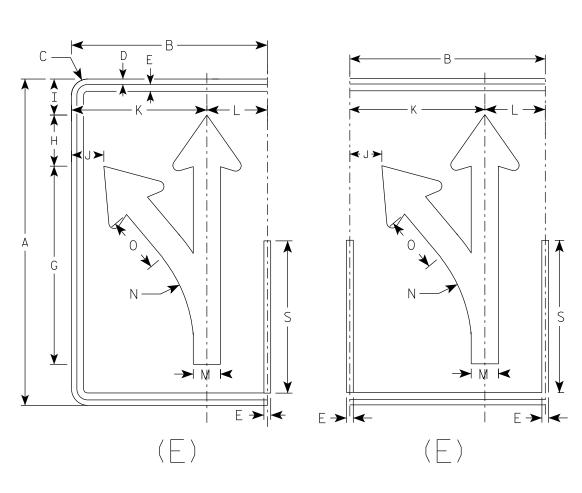
PLOT BY : mscj9h

PLOT NAME :

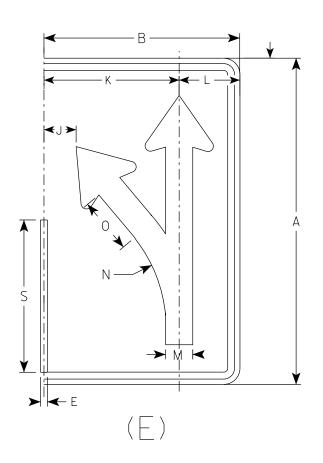
- 1. Sign is Type II Type H Reflective
- 2. Color:

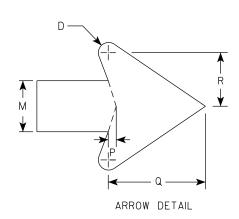
Background - White Message – Black

3. Message Series - None



HWY:





SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y Z	Area sq. ft.
1																										
25	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14							3.75
2M	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14							3.75
3	36	24	1 1/2	1/2	5/8		21 7/8	5 %	4	4 1/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4							6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8							10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8							10.0

COUNTY:

STANDARD SIGN R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

DATE 2/14/23 PLATE NO. R3-8.2

SHEET NO:

FILE NAME: C:\CAEfiles\Projects\stdplate_R38.dgn

PROJECT NO:

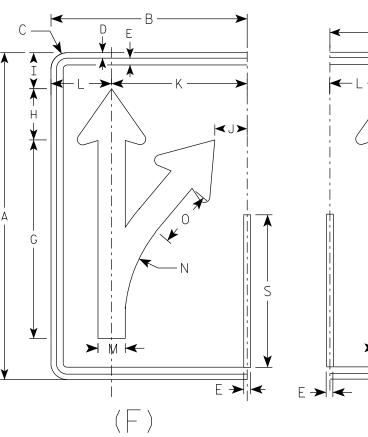
PLOT DATE: 14-FEB 2023 3:07

PLOT BY: mscj9h

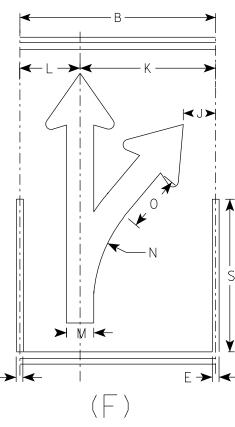
- 1. Sign is Type II Type H Reflective
- 2. Color:

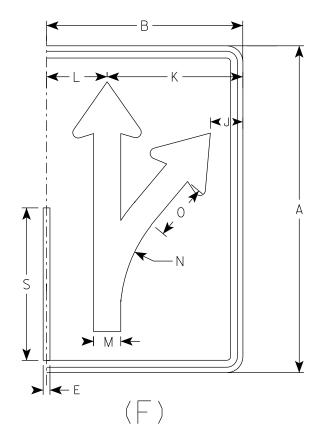
Background - White Message - Black

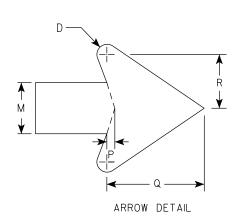
3. Message Series - None



HWY:







SIZE	А	В	С	D	Е	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Χ	Y	Z	Area sq. ft.
1																											
25	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 1/2	1/2	5/8		21 1/8				16 1/8			15 1/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4					22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 %	4 1/4	22 3/8								10.0

COUNTY:

STANDARD SIGN R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Raw

For State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

SHEET NO: **E**

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

PROJECT NO:

PLOT DATE: 14-FEB 2023 3:15

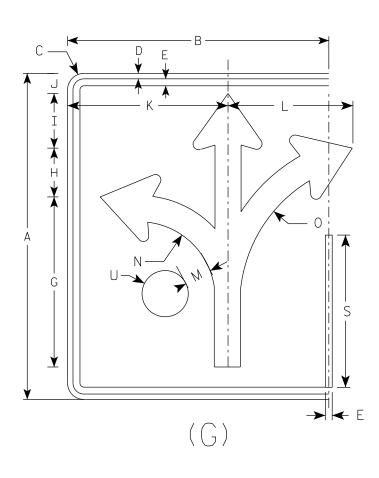
PLOT BY: mscj9h

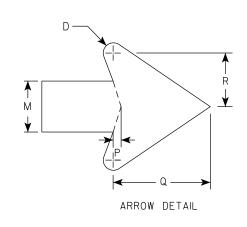
PLOT NAME :

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

Background - White Message - Black

3. Message Series - None





SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T U	V	W	X	Y	Z	Area sq. ft.
1																										
25	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	5	1 1/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14	2 !	8					5.0
2M	30	24	1 1/2	1/2	5/8		15 %	4 1/2	5	1 1/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14	2 !	, 8					5.0
3	36	30	1 1/2	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4	2 1/	2					7.5
4	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8	3 3	8					12.0
5	48	36	2 1/4	3/4	1		24 1/8	7 1/4	7 1/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8	3 3	8					12.0

STANDARD SIGN R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther For State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2 SHEET NO:

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn HWY:

COUNTY:

PLOT DATE: 14-FEB 2023 3:21

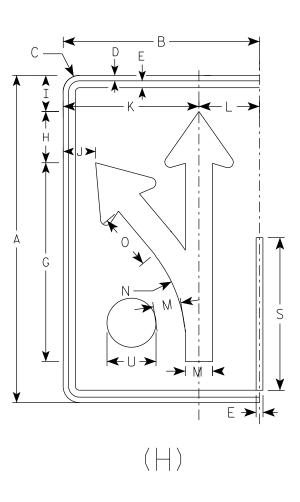
PLOT NAME :

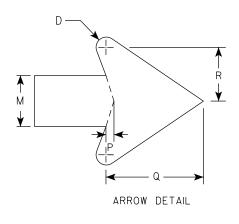
PLOT BY: mscj9h

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

Background - White Message – Black

3. Message Series - None





SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Χ	Y	Z	Area sq. ft.
1																											
25	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 1/2	1/2	5/8		21 1/8	5 %	4	4 1/8	16 1/8	7 3/4	3	15 1/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8		22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN R3-8 (H) Arrow WISCONSIN DEPT OF TRANSPORTATION

 f_{or} State Traffic Engineer

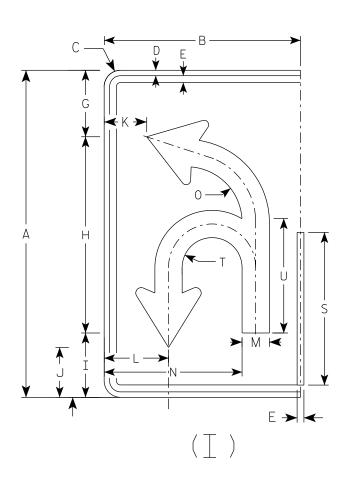
DATE 2/14/23 PLATE NO. R3-8.2

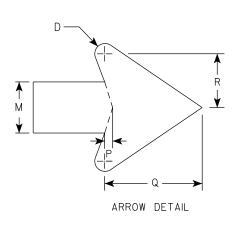
PROJECT NO: HWY: COUNTY: SHEET NO:

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

Background - White Message - Black

3. Message Series - None





SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																											
25	30	18	1 1/2	1/2	5/8		6 1/8	18	5 %	4 5/8	3 1/8	5 %	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2	14	2 3/4	10 1/2						3.75
2M	30	18	1 1/2	1/2	5/8		6 1/8	18	5 1/8	4 5/8	3 1/8	5 %	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 1/2	1/2	5/8		21 1/8	21 5/8	7 1/8	5 1/2	5 %	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 ¾	9 3/8	7 1/4	6 1/8	10	4	20 1/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 1/8	10	4	20 1/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4				·	·	10.0

STANDARD SIGN R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther f_{or} State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

SHEET NO:

Ε

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

PROJECT NO:

HWY:

COUNTY: PLOT DATE: 14-FEB 2023 3:16

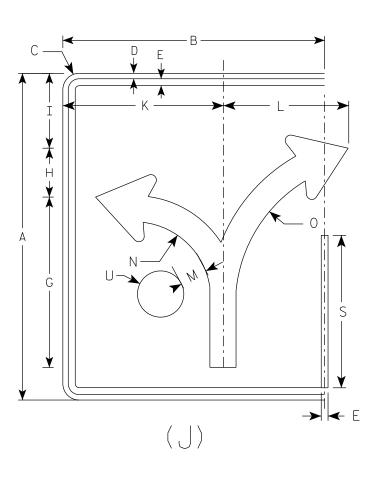
PLOT BY: mscj9h

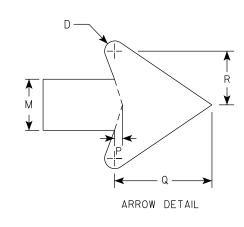
PLOT NAME :

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

Background - White Message - Black

3. Message Series - None





SIZ	E ,	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	area sq. ft.
1																												
25	5 -	30	24	1 1/2	1/2	5/8		15 %	4 1/2	6 %		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
21	1 3	30	24	1 1/2	1/2	5/8		15 %	4 1/2	6 %		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	100	36	30	1 1/2	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4		48	36	2 1/4	3/4	1		24 1/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5		48	36	2 1/4	3/4	1		24 1/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8	·	3 3/8					·	12.0

COUNTY:

STANDARD SIGN R3-8 (J) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther f_{or} State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn

HWY:

PROJECT NO:

PLOT DATE: 14-FEB 2023 3:18

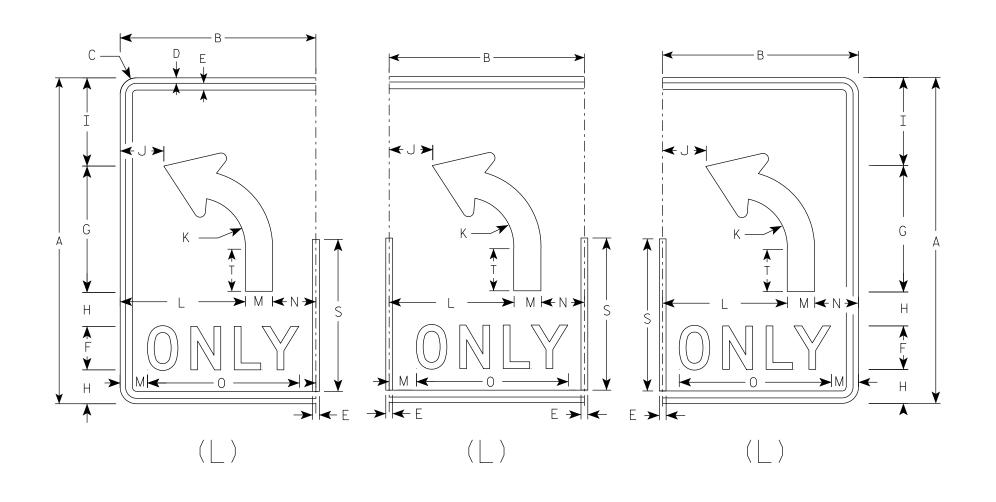
PLOT BY : mscj9h

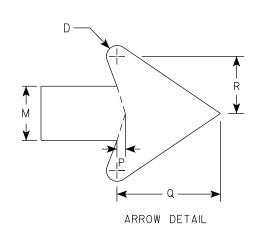
PLOT NAME :

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

Background - White Message - Black

3. Message Series - D





SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	Ν	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																											
25	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 1/8							3.75
2M	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2	14	3 1/8							3.75
3	36	24	1 1/2	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 ¾	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

PPROVED Matthew & Rauch
For State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

SHEET NO:

WISDOT/CADDS SHEET 42

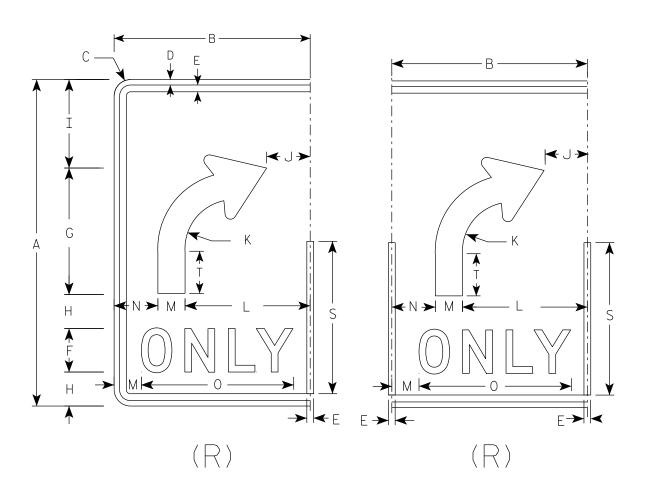
PLOT DATE: 14-FEB 2023 3:02 PLOT BY: mscj9h PLOT NAME:

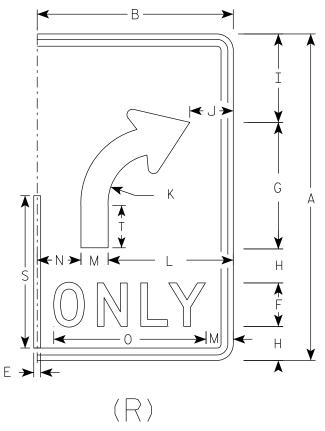
PROJECT NO:

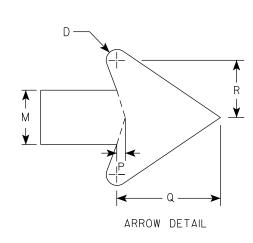
- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

3. Message Series - D







SIZE	А	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	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 1/8							3.75
2M	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 1/8							3.75
3	36	24	1 1/2	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Ra

For State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

SHEET NO: E

PROJECT NO:
FILE NAME: C:\CAEfiles\Projects\stdplate_R38.dgn

PLOT DATE: 14-FEB 2023 3:03

PLOT BY: mscj9h

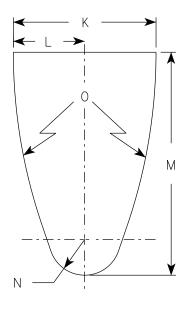
PLOT NAME :

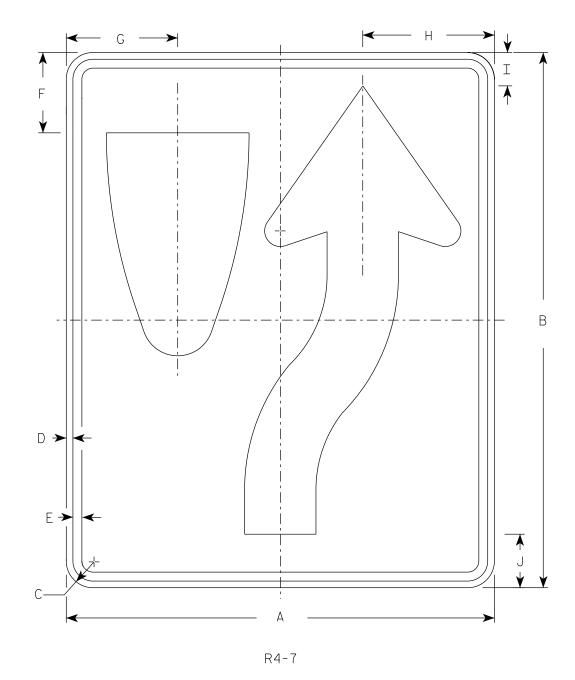
- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message – Black

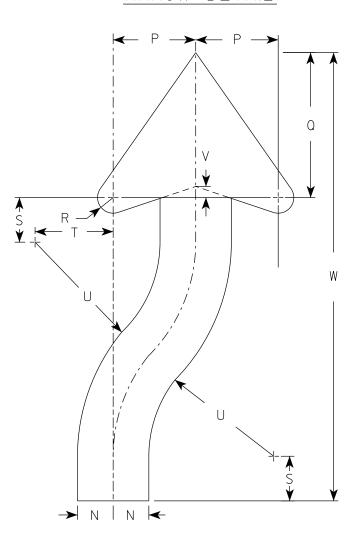
3. R4-8 is the same as R4-7 except Legend is reversed.

DIVIDER DETAIL





ARROW DETAIL



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	18	24	1 1/2	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 1/8	3 1/4	6 3/4	1/2	20 3/8				3.0
25	24	30	1 1/2	3/8	1/2	4 1/2	6 1/4	7 3/8	1 1/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/2	3/8	1/2	4 1/2	6 1/4	7 3/8	1 1/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 1/8	1/2	5/8	6 3/4	9 3/8	11 1/8	2 1/8	4 1/2	12	6	18 3/4	3	45	6 1/8	12 1/4 1	1 1/4	3 3/4	6	13 1/2	1	40 3/4				12.0
4	36	48	1 1/8	1/2	5/8	6 3/4	9 3/8	11 1/8	2 1/8	4 1/2	12	6	18 3/4	3	45	6 1/8	12 1/4 1	1 1/4	3 3/4	6	13 1/2	1	40 3/4				12.0
5	48	60	3	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1	5	8 3/4	18	1 1/4	50 1/4				20.0

STANDARD SIGN R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer DATE 8/17/23 PLATE NO. R4-7.9

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R47.dgn

HWY:

PROJECT NO:

COUNTY:

PLOT DATE: 17-AUG 2023 12:39

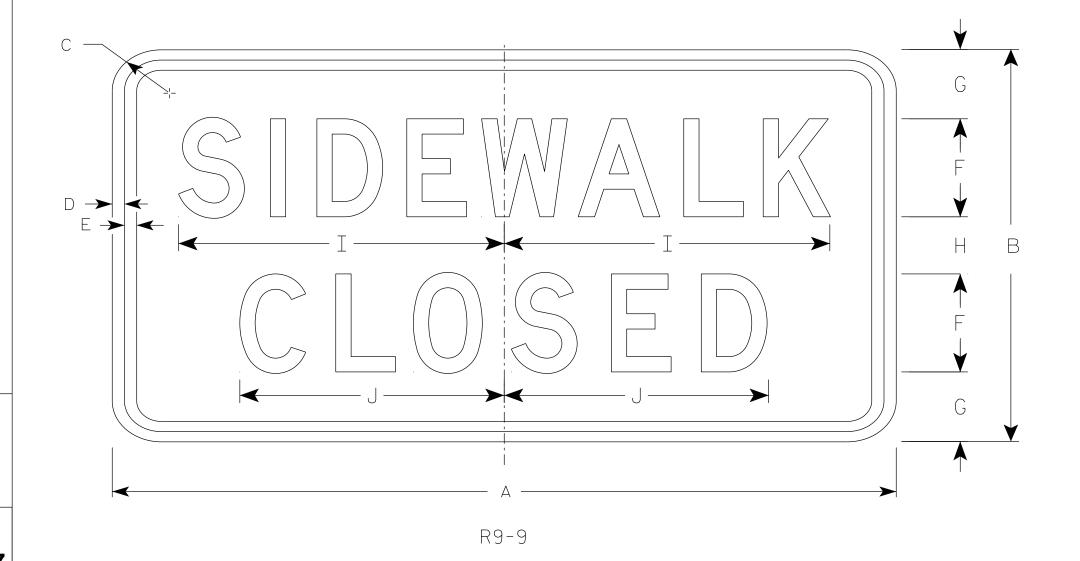
PLOT BY : mscj9h

PLOT NAME :

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

Background - White Message - Black

- 3. Message Series C
- 4. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.



SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	Ν	0	Р	0	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																											
25	24	12	1 1/2	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 1/2	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 1/2	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

COUNTY:

STANDARD SIGN R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE <u>1/24/24</u>

PLATE NO. <u>R9-9.7</u>

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.dgn

HWY:

PROJECT NO:

PLOT DATE: 24-JAN 2024 11:55

PLOT BY: mscj9h

PLOT NAME :

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

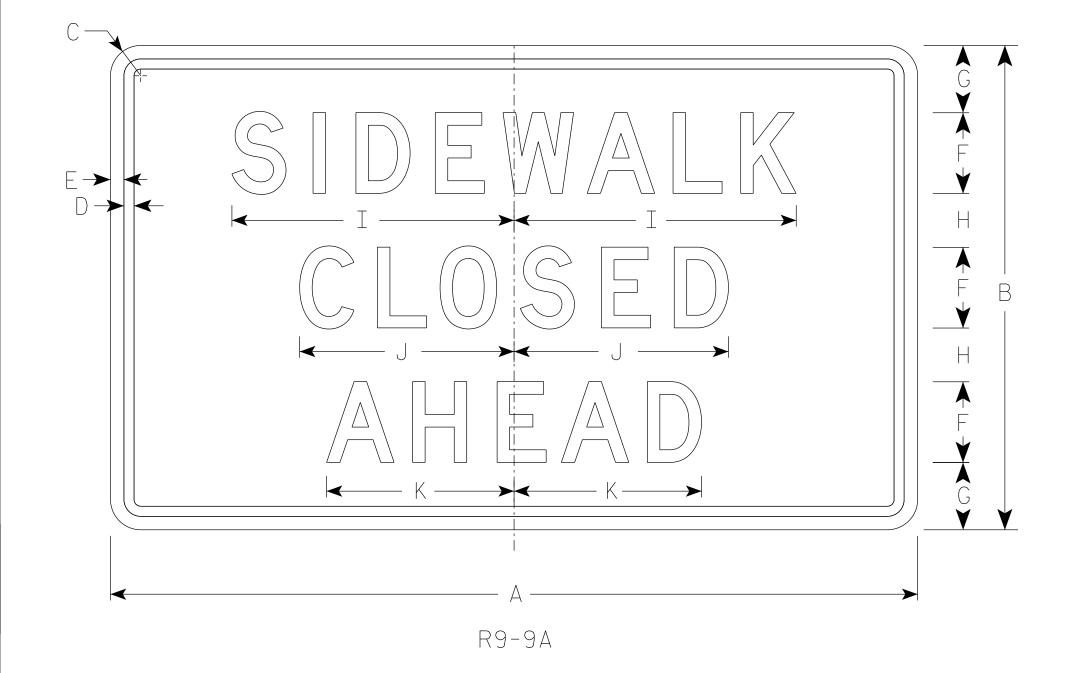
1

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

Background - White

Message – Black

3. Message Series - D



l																											
SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																											
25	30	18	1 1/2	3/8	1/2	3	2 1/2	2	10 1/2	8	7																3.75
2M	30	18	1 1/2	3/8	1/2	3	2 1/2	2	10 1/2	8	7																3.75
3																											
4																											
5																											
PRC	JECT	NO:					НΛ	WY:					COU	NTY:													

STANDARD SIGN R9-9A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew f_{or} State Traffic Engineer

DATE 1/24/24 PLATE NO. R9-9A.2 SHEET NO:

Ε

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R99A.DGN

PLOT DATE : 24-JAN 2024 11:58

PLOT BY: mscj9h

1. Sign is Type II - Type H Reflective

2. Color:

Background - White Message - Black

3. Message Series - Lines 2, 3 and 4 are Series D. Line 1 is Series C.

C —		
D ->		G F H
		F B B
		F H H
	P P	F G G
	A	<u> </u>

SIZE	А	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Υ	Z	Area sq. ft.
1	24	30	1 1/2	3/8	1/2	4	3 1/4	2 1/2	9 1/4	3/4	3	5 3/8	8 5/8	9 1/2	9 5/8	7											5.0
25	30	36	1 1/8	1/2	5/8	5	4 1/4	2 1/2	11 5/8	7/8	4	6 %	10 3/4	11 ¾	11 1/2	8 3/4											7.5
2M	30	36	1 1/8	1/2	5/8	5	4 1/4	2 1/2	11 5/8	7/8	4	6 %	10 3/4	11 ¾	11 1/2	8 3/4											7.5
3																											
4																											
5															·		·									·	

STANDARD SIGN R10-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew f_{or} State Traffic Engineer

DATE 1/25/24

PLATE NO. R10-5.8

SHEET NO:

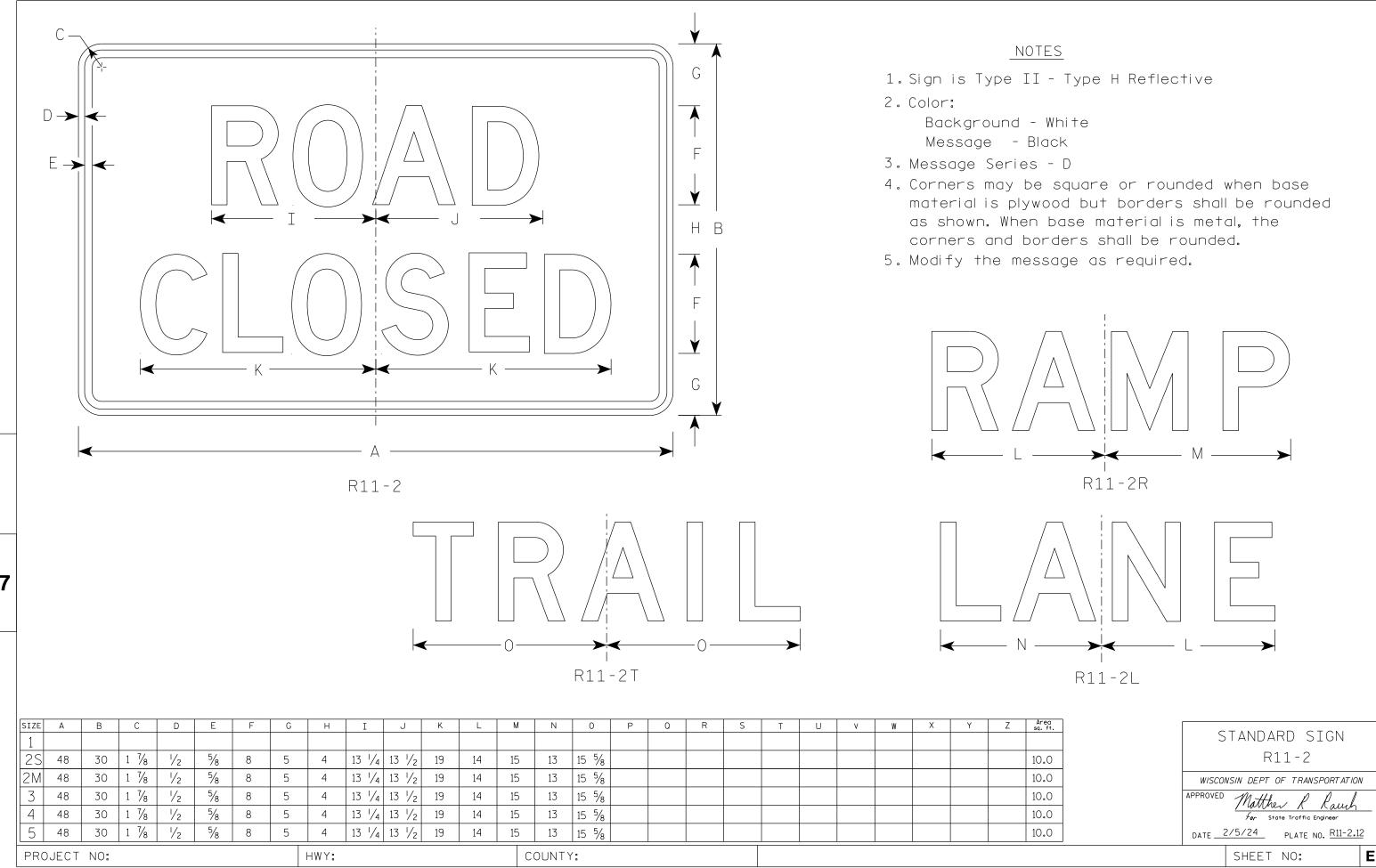
PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R105.dgn

PLOT DATE: 25-JAN 2024 8:30

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42

Ε



FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn

PLOT DATE: 5-FEB 2024 2:10

PLOT BY: mscj9h

PLOT NAME :



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

Background - White 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.
- 5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.

R11-3

** See Note 5

HWY:

В	C	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	W	X	Υ	Z	Area sq. ft.
18	1 1/2	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
30	1 7/8	1/2	5/8	6	5	3 1/2	16 1/8	5	1 3/8	23 1/4	3	6 1/4	13	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 1/8				12.5
30	1 1/8	1/2	5/8	6	5	3 1/2	16 1/8	5	1 3/8	23 1/4	3	6 1/4	13 %	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
)	30	30 1 7/8	18 1 ½ ¾ 30 1 ⅓ ½	18 1 ½ 3/8 3/8 30 1 7/8 ½ 5/8	18 1 ½ 3/8 3/8 4 30 1 7/8 ½ 5/8 6	18 1 ½ 3/8 3/8 4 3 30 1 ½ ½ 5/8 6 5	18 1 ½ 3/8 3/8 4 3 2 30 1 ½ 5/8 6 5 3 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 30 1 ½ 5/8 6 5 3 ½ 16 ¾	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ½ 15 3/8 30 1 ½ 5/8 6 5 3 ½ 16 ½ 5 1 3/8 23 ¼	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ½ 15 3/8 2 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 3/8 23 ¼ 3	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 15 ¾ 2 3 ¾ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ¾	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ½ 1 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ¾ 1 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ½ 1 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 1 ¾8 22 ⅓8	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 8 ¾8 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 1 ¾8 12 ½8 14	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 8 ¾8 ½8 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 11 ¾8 22 ⅓8 14 1 ½2	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 8 ¾8 ¼8 10 ½ 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 1 ¾8 12 ½8 14 1 ½2 17 ½2	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ½ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ½ <t< td=""></t<></td></t<></td></t<></td></t<>	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ½ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ½ <t< td=""></t<></td></t<></td></t<>	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ½ <t< td=""></t<></td></t<>	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ½ <t< td=""></t<>

COUNTY:

STANDARD SIGN R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther & Rawh

For State Traffic Engineer

SHEET NO:

DATE <u>2/5/24</u> PLATE NO. <u>R11-3.10</u>

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R113.DGN

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:30

PLOT BY: mscj9h

PLOT NAME :

NOTES

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

Background - White 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.



K11-2

SIZE	Α	В	С	D	E	F	G	Ι	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																											
25	60	30	1 1/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 1/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew K Kaush For State Traffic Engineer

SHEET NO:

DATE 2/5/24

PLATE NO. R11-4.4

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R114.dgn

HWY:

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:54

PLOT BY: mscj9h

PLOT NAME: PLOT SCALE: \$\$.

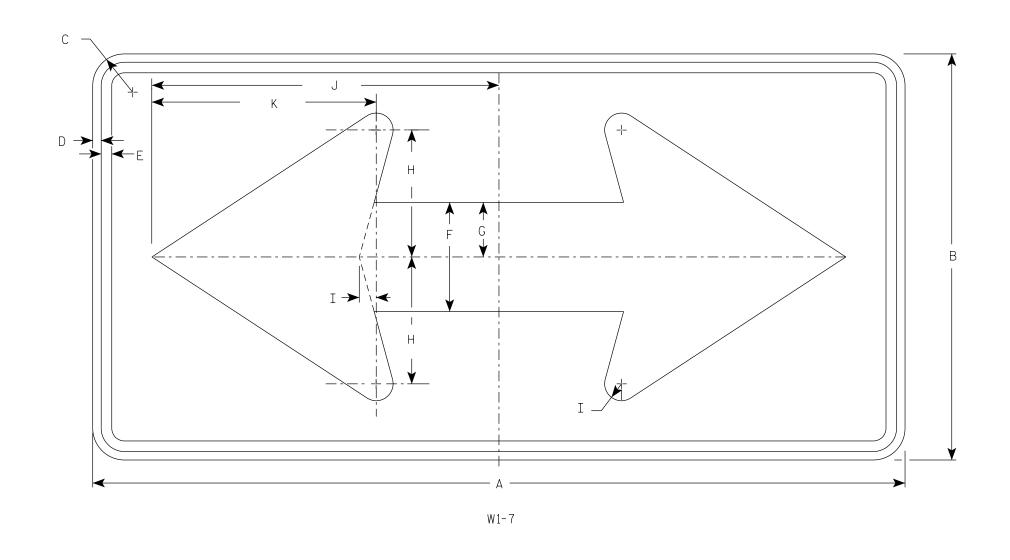
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

7

1. Sign is Type II - Type F Reflective

2. Color:

Background - Yellow Message – Black



SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Υ	Z	area sq. ft.
1	36	18	1 1/2	3/8	1/2	5	2 1/2	5 3/4	3/4	15 % 1	0 1/8																4.5
25	48	24	1 1/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2 1	3 1/4																8.0
2M	48	24	1 1/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2 1	3 1/4																8.0
3	60	30	1 1/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8 1	6 1/4																12.5
4	60	30	1 1/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8 1	6 1/4																12.5
5	96	48	3	3/4	1	13	6 1/2	15	2	41 2	6 1/2										·				·		32.0

COUNTY:

For State Traffic Engineer DATE 5/10/2023 PLATE NO. W1-7.8

STANDARD SIGN W1 - 7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W17.dgn

HWY:

PROJECT NO:

PLOT DATE: 10-MAY 2023 3:05

PLOT BY : dotc4c

PLOT NAME :

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

NOTES

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

Background - Yellow Message - Black

A F
W11-2

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Υ	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2	9 3/4		7 1/8	2 1/8	5 1/8																	4.0
25	30		1 1/8	1/2	5/8	12 1/8		9 %	3 1/2	6 3/8																	6.25
2M	36		2 1/4	5/8	3/4	14 1/2		11 1/8	4 1/4	7 5/8																	9.0
3	36		2 1/4	5/8	3/4	14 1/2		11 1/8	4 1/4	7 5/8																	9.0
4	48		3	3/4	1	19 3/8		15 ¾	5 5/8	10 1/4																	16.0
5																											
PRO	JECT	NO:						HWY:					(COUNT	Y:												

STANDARD SIGN

W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew K For State Traffic Engineer

DATE <u>6/15/2023</u>

PLATE NO. <u>W11-2.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W112.DGN

PLOT DATE: 15-JUNE 2023 3:50

PLOT BY : dotc4c

PLOT NAME :

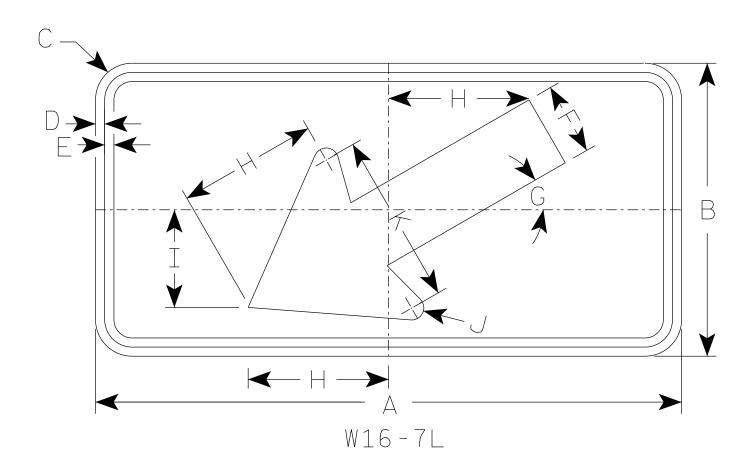
PLOT SCALE :

WISDOT/CADDS SHEET 42

2. Color:

Background - Yellow Message - Black

3. W16-7R is the same as W16-7L except the arrow is reversed along the vertical centerline.



 \star For 36" \times 36" Warning Signs, use 30" \times 18" W16-7L signs.

* For 48" x 48" Warning Signs, use 48" x 24" W16-7L signs.

S	SIZE	А	В	С	D	E	F	G	Н	Ι	J	K	L	М	Ν	0	Р	Q	R	S	T	٧	W	Х	Y	Z	Area sq. ft.
	1																										
	25	24	12	1 1/2	3/8	3/8	3	30°	5 3/4	4	1/2	7															2.0
\times	2M	30	18	1 1/2	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4															3.75
+	3	30	18	1 1/2	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4															3.75
+	4	48	24	1 1/8	1/2	5/8	6	30°	11 1/2	8	1	14															8.0
	5																										

COUNTY:

STANDARD SIGN W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther For State Traffic Engineer

DATE 1/9/2024 PLATE NO. W16-7.9

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W167.dgn

PROJECT NO:

HWY:

PLOT DATE: 9-Jan 2024 2:34

PLOT BY : dotc4c

PLOT NAME :

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

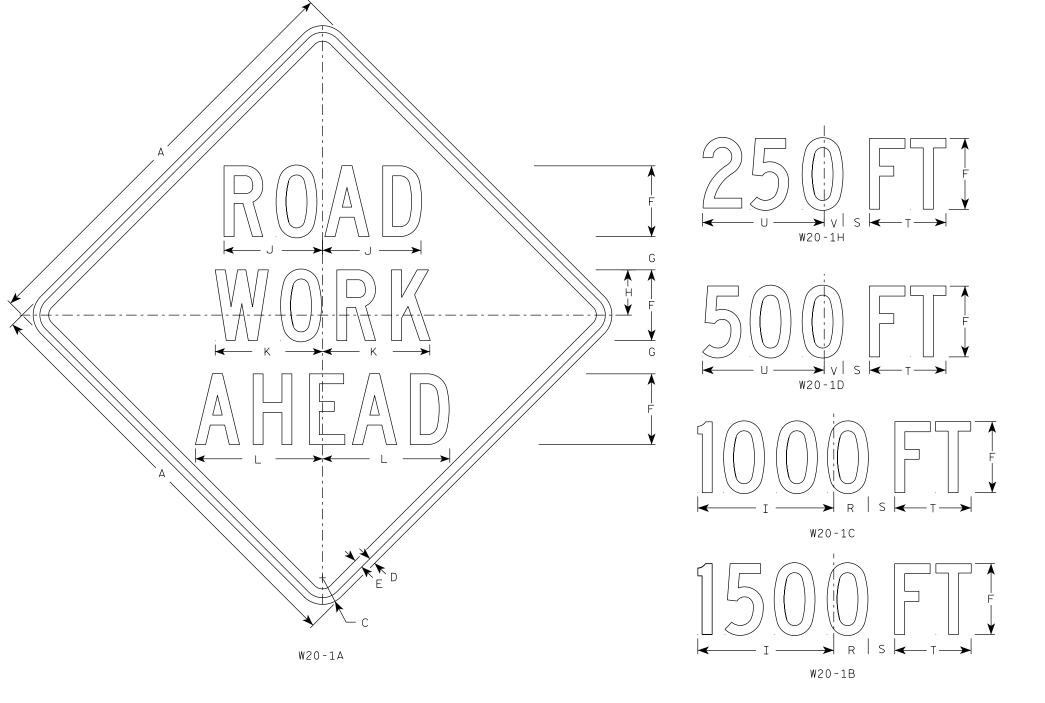
Ε

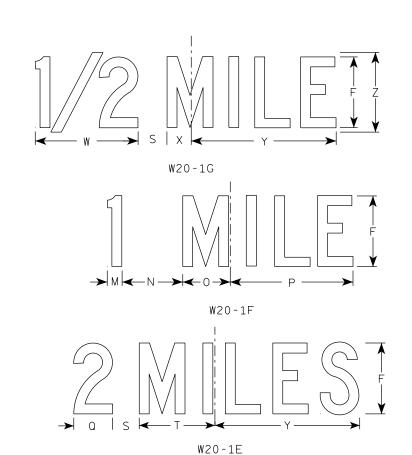
NOTES

- 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	Δ	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7	8 1/8	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		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 %	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		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	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
3	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 %	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		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	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
5	48		3	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 %	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 7/8	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
For State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-1.12

SHEET NO:

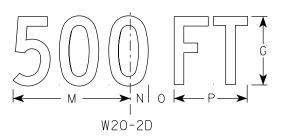
PROJECT NO:

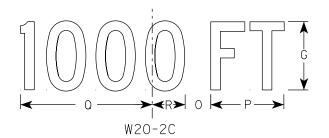


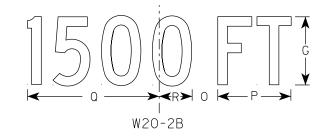
- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message – Black

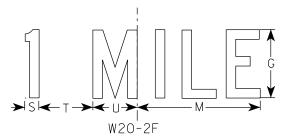
- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Line 1 is Series D. Line 2 is Series D for AHEAD and Series C for all other distances.











SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z	Area sq. ft.
	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 1/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
25	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10	2 3/8	14 3/8			16.0

COUNTY:

W20-2A

HWY:

STANDARD SIGN W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

DATE 1/10/2024 PLATE NO. W20-2.7

SHEET NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\W202.DGN

PROJECT NO:

PLOT DATE: 10-JAN 2024 11:36

PLOT BY : dotc4c

PLOT NAME :

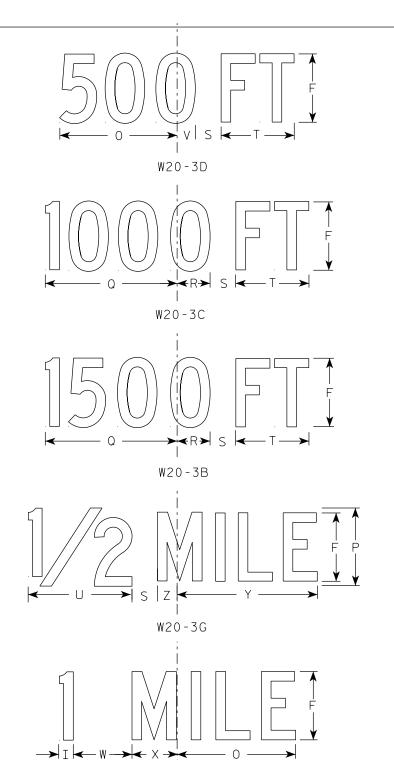
PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42



- 1. Sign is Type II Type F Reflective
- 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.



W20-3F

A N	
C	

HWY:

W20-3A

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	Z	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 1/8	12 1/2	11	9	6	10 1/8	2 1/2	1 1/8	5 %	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
25	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	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
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	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
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0

COUNTY:

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

 $\frac{MMMeV}{F_{or}}$ State Traffic Engineer

SHEET NO:

DATE 1/10/2024 PLATE NO. W20-3.8

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W203.DGN

PROJECT NO:

PLOT DATE: 10-JAN 2024 12:02 PLOT BY: dotc4c

PLOT NAME :

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

BELOIT ROAD

				AREA (SF)		INCRE	MENTAL VOL (CY) (UNADJI	USTED)		CUMULATIVE VOL	(CY)
STATION	REAL STATION	DISTANCE	сит	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	СПТ	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL	MASS ORDINATE
43+50.00	4350		127	32	0	0	0	0	0	0	0
43+75.00	4375	25	129	32	0	119	29	0	119	0	89
44+00.00	4400	25	109	32	0	110	29	0	229	0	170
44+25.00	4425	25	141	53	0	116	39	0	344	0	247
44+50.00	4450	25	192	76	0	154	60	0	499	0	341
44+75.00	4475	25	34	14	0	105	42	0	603	0	404
45+00.00	4500	25	35	15	0	32	13	0	635	0	423
45+25.00	4525	25	69	32	0	48	22	0	683	0	449
45+50.00	4550	25	83	32	0	70	29	0	754	0	491
45+75.00	4575	25	87	32	0	79	29	0	832	0	540
45+86.00	4586	11	96	32	0	37	13	0	870	0	565
46+00.00	4600	25	109	32	0	95	29	0	965	0	630
46+25.00	4625	25	128	32	0	110	29	0	1074	0	711
46+50.00	4650	25	125	32	0	117	29	0	1191	0	799
						1191	393	0			

9

ALL CATEGORY 0010

9

PROJECT NO: 2525-03-73 HWY: W. BELOIT ROAD COUNTY: MILWAUKEE EARTHWORK DATA SHEET: **E**

FILE NAME : _____ PLOT BY : ____ PLOT NAME : ____ PLOT SCALE : 1:1

EXCAVATION - 55TH STREET

CUT

Pavement Removal Area (SF)	Depth of Pavement (FT)	Depth of Aggregate (FT)	Total Depth (FT)	Volume (CY)	Salvaged Unusable (CY)	Comment
4218	0.5	1	1.5	234	78	Asphalt area at tracks
860	0.5	1	1.5	48	16	Concrete area at tracks
305	0.42	1	1.42	16	5	Sidewalk area at tracks
394	0.42	0	0.42	6	6	Sidewalk replacement
384	0.75	0	0.75	11	11	Concrete replacement

TOTAL:

315

116

FILL

Pavement Removal Area (SF)	Depth of Fill (FT)	Depth of Aggregate (FT)	Total Depth (FT)	Volume (CY)	Salvaged Unusable (CY)	Comment
4218	1.2	0	1.2	187	0	Asphalt area at tracks
860	1.2	0	1.2	38	0	Concrete area at tracks
305	1.2	0	1.2	14	0	Sidewalk area at tracks

TOTAL

239

0

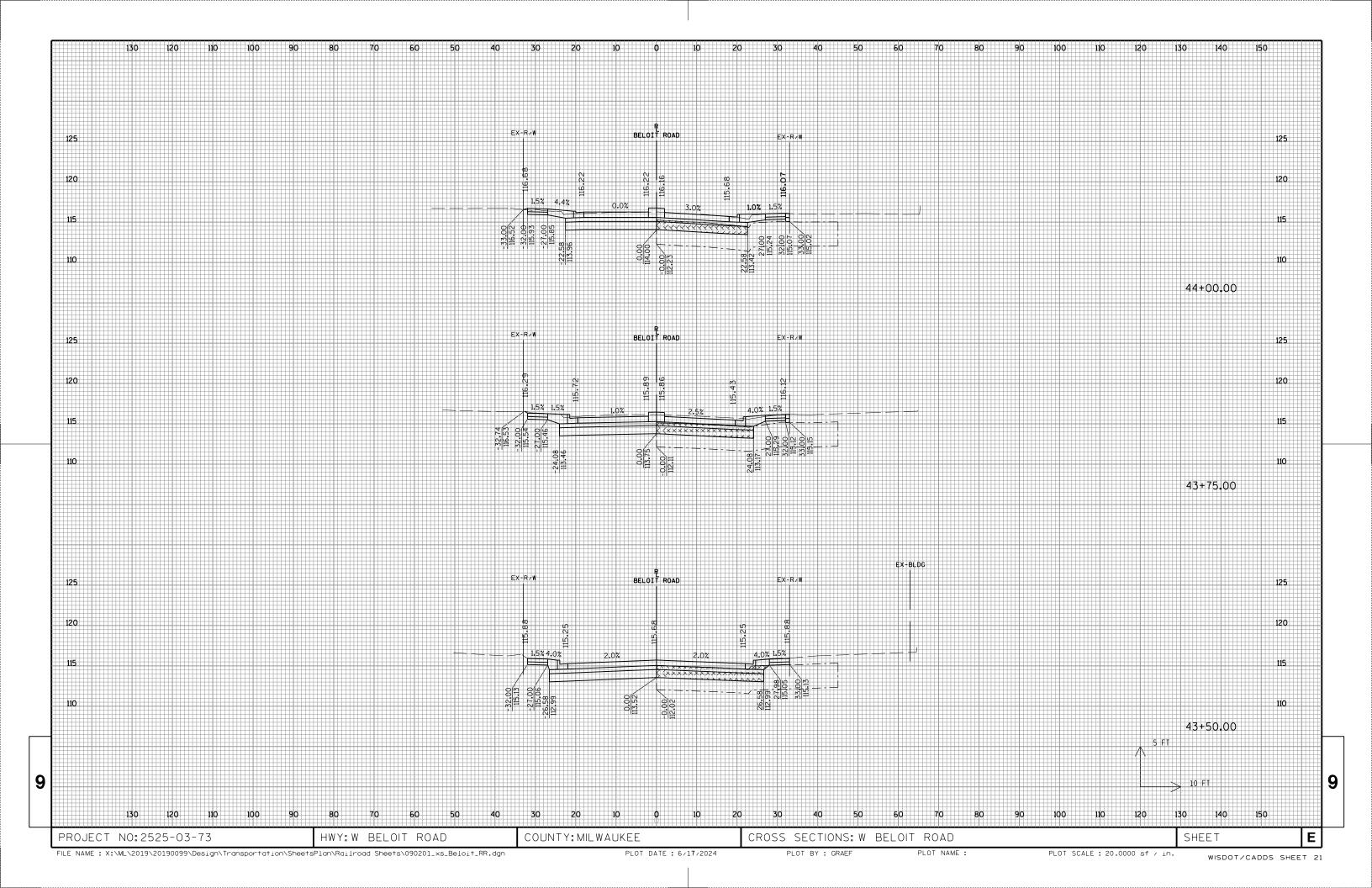
9

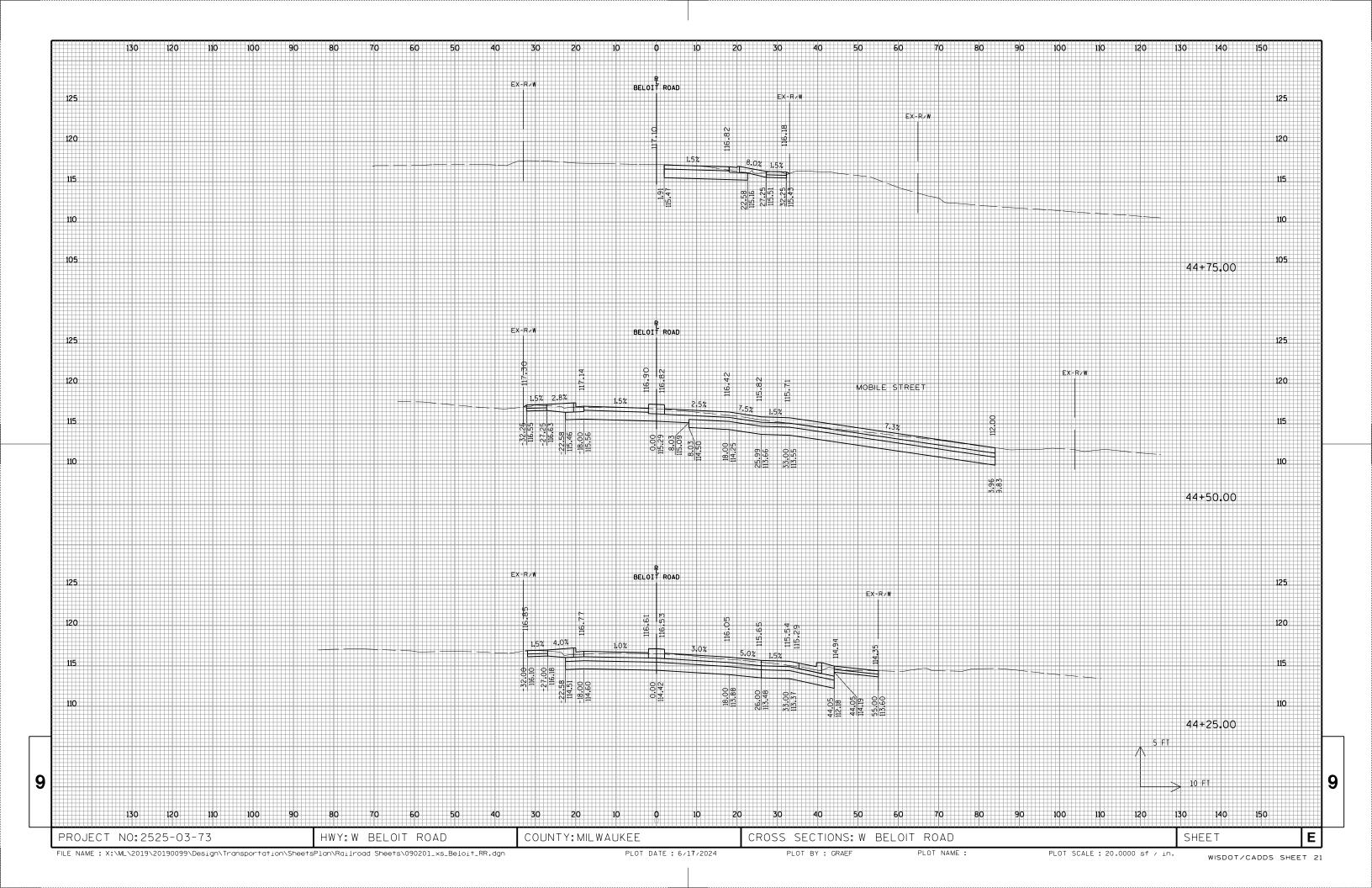
9

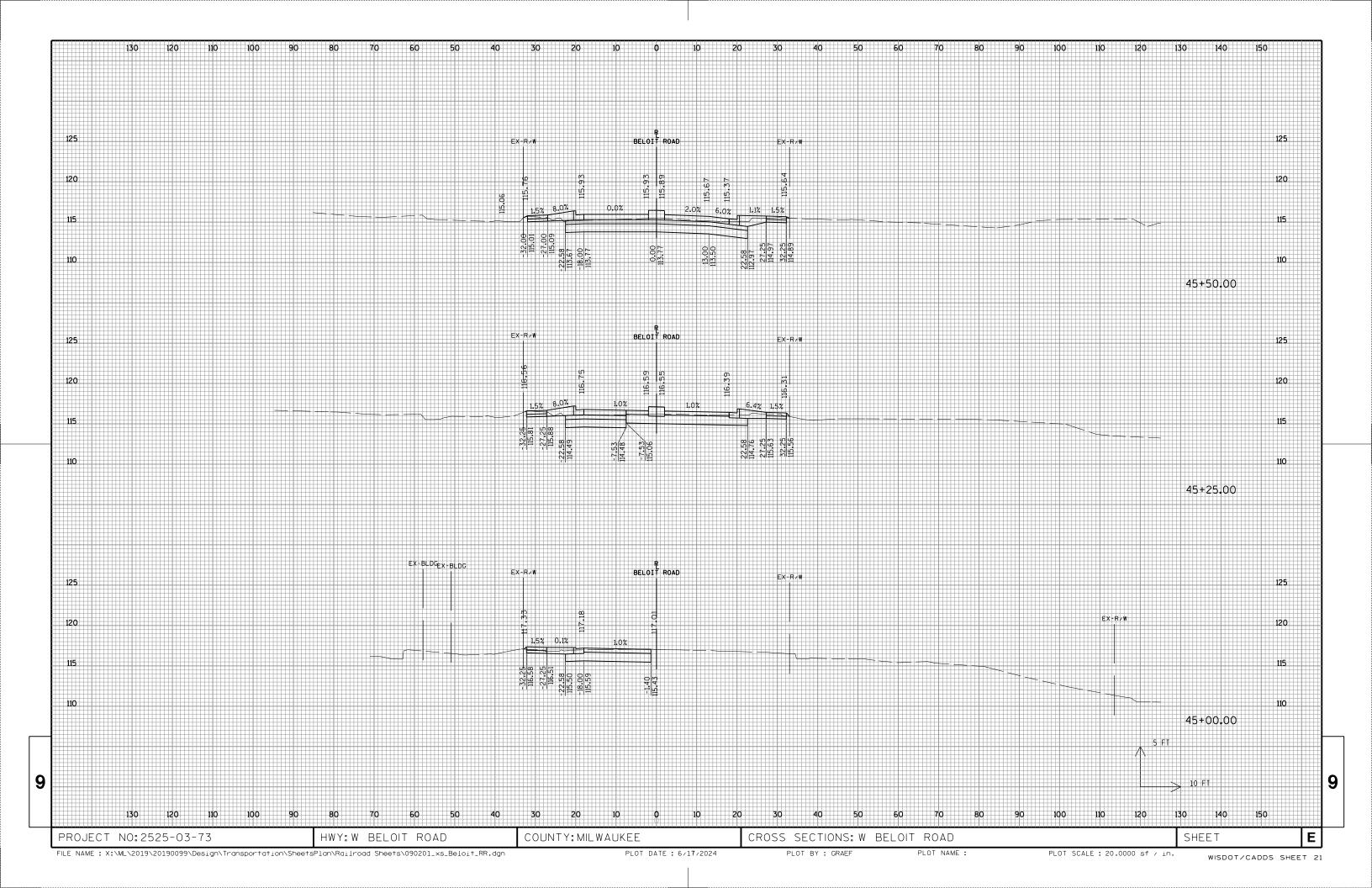
ALL CATEGORY 0010

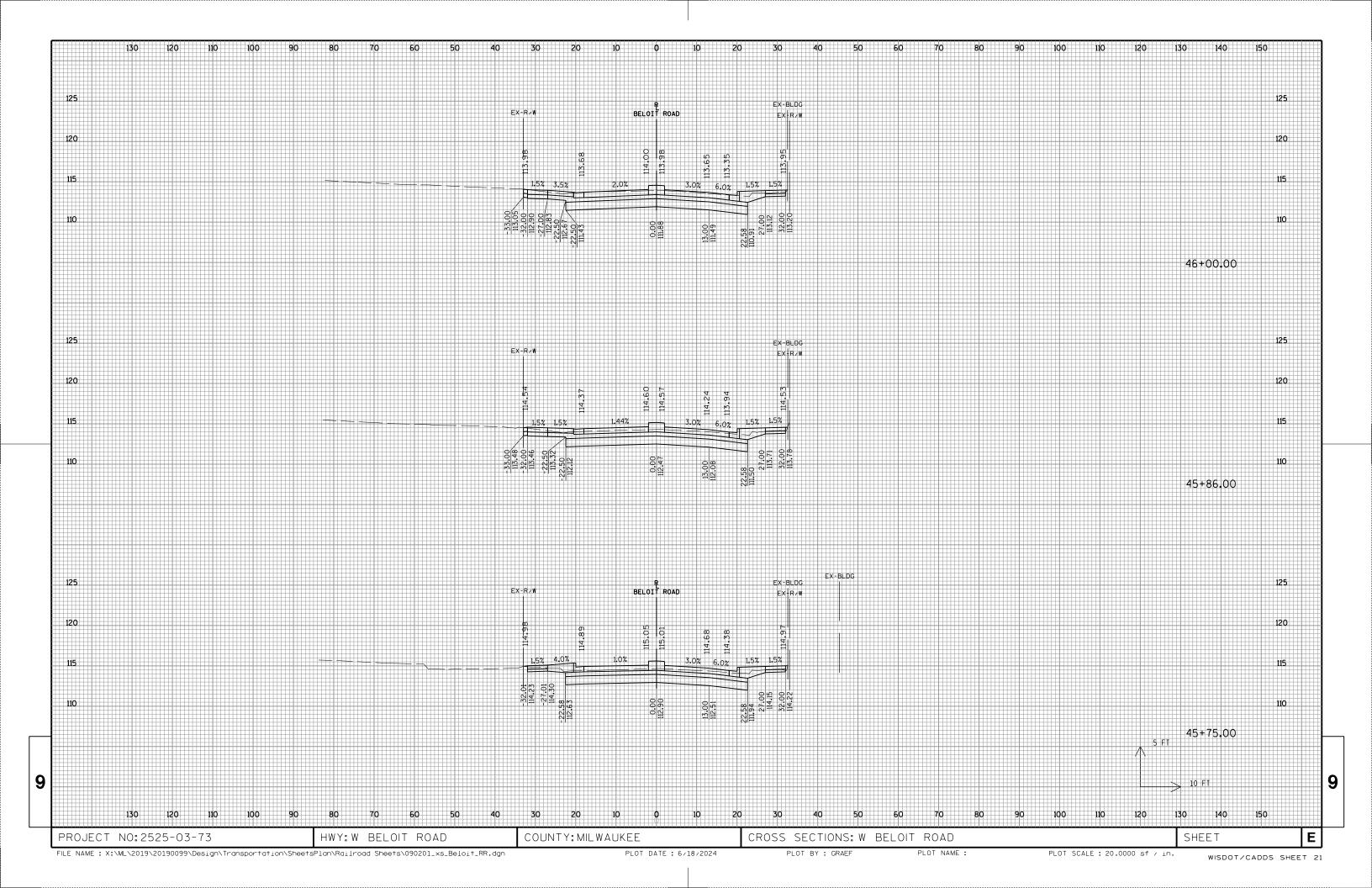
PROJECT NO: 2525-03-73 HWY: W. BELOIT ROAD COUNTY: MILWAUKEE EARTHWORK DATA SHEET:

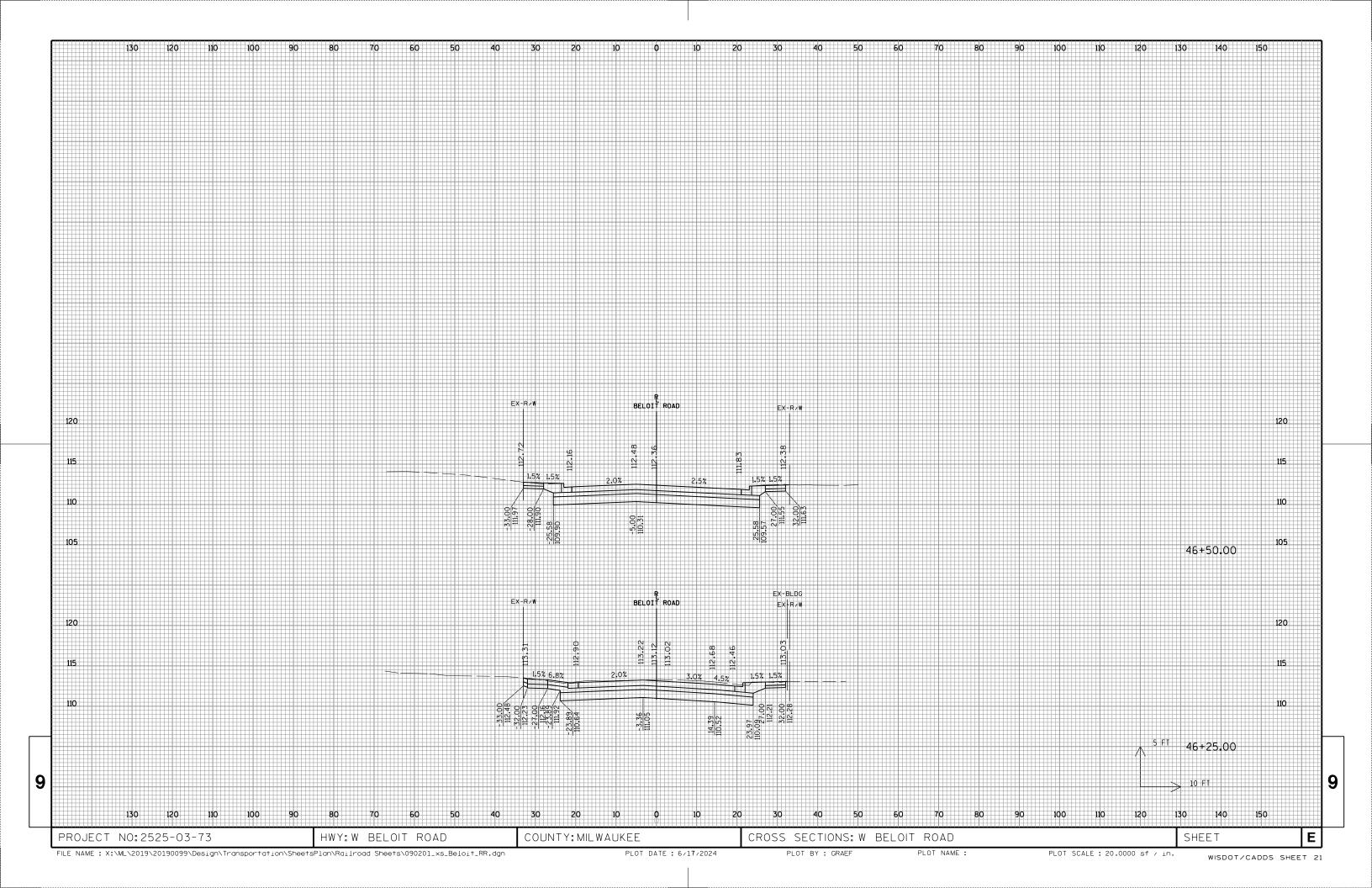
FILE NAME: ______ PLOT BATE: ______ PLOT NAME: _____ PLOT SCALE: 1:1











Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov