GRE

PROJECT ID: 1490-40-71

WITH: N/A

COUNTY: MARINETTE

MAY 2025

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.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	9	Computer Earthwork Data

TOTAL SHEETS = 266



N

DESIGN DESIGNATION

A.A.D.T.	(2027)	=	9,100
A.A.D.T.	(2047)	=	9,900
D.H.V.		=	370
D.D.		=	75/25
T.		=	15.1%
DESIGN SPEED		=	40 MPH
ESALS		=	3,000,000

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 (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

USH 141, V CRIVITZ

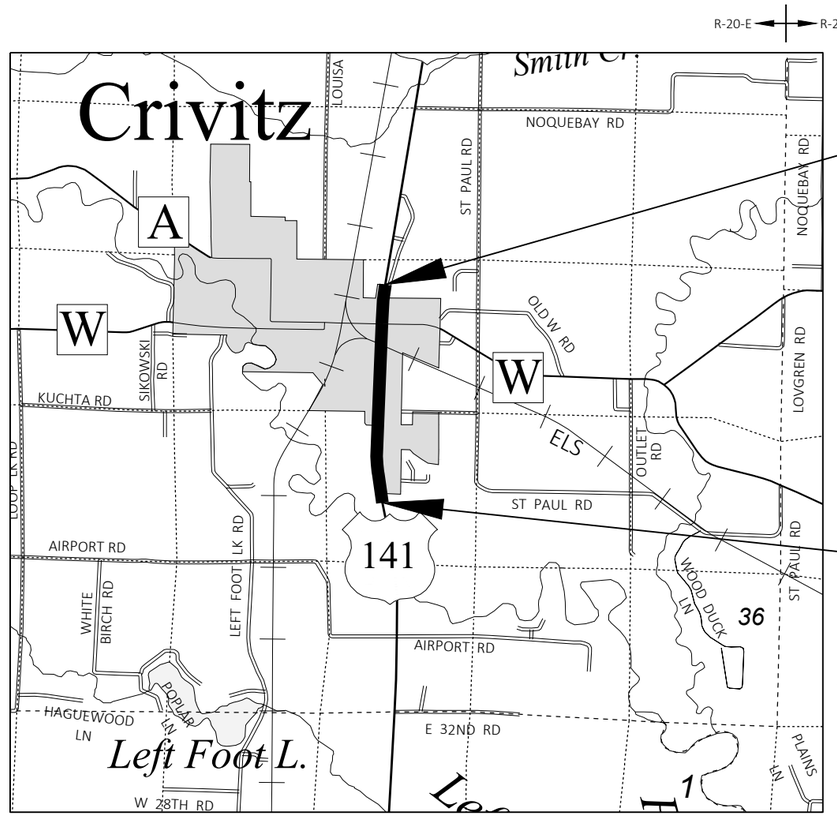
OWL LANE - S JUNCTION OLD HWY 141

USH 141

MARINETTE COUNTY

STATE PROJECT NUMBER
1490-40-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1490-40-71	WISC 2025325	1



END PROJECT
STA 1715+36.64
Y = 198,930.696
X = 709,629.600

BEGIN PROJECT
STA 1639+00.00
Y = 191,318.658
X = 709,495.446

LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 1.445 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), MARINETTE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 2012A.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	NE REGION
Designer	S. ERICSON
Project Manager	K. VOGEL
Regional Examiner	
Regional Supervisor	K. SLEZAK

APPROVED FOR THE DEPARTMENT

DATE: 1/28/25 (Signature)

E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\010101-TI.DWG

PLOT DATE : 10/1/2024 9:39 AM

PLOT BY : CAMPSHURE, MICHAEL R

PLOT NAME :

GENERAL NOTES

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

EXISTING RIGHT OF WAY IS FROM SURVEYED INFORMATION UNLESS OTHERWISE NOTED.

RADII, ELEVATIONS, AND DIMENSIONS ARE GIVEN AT THE PAVEMENT EDGES AND/OR CURB FLANGE UNLESS OTHERWISE NOTED IN THE PLANS.

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

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
REMOVAL DETAILS
PLAN DETAILS
EROSION CONTROL
PERMANENT SIGNING
TRAFFIC SIGNALS
PAVEMENT MARKING
TRAFFIC CONTROL
DETOUR SIGNING
ALIGNMENT DIAGRAM

CONTACTS

WISCONSIN DNR LIAISON

JIM DOPERALSKI, JR.
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GREEN BAY, WI 54313
(920) 412-0165
james.doperalski@wisconsin.gov

MARINETTE COUNTY HIGHWAY COMMISSIONER

ERIC BURMEISTER
501 PINE STREET
PESHTIGO, WI 54157
(715) 732-7568
eburmeister@marinettecounty.com

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MICHAEL ANDRASCHKO, PLS
944 VANDERPERREN WAY
GREEN BAY, WI 54304
(920) 492-4166
michael.andraschko@dot.wi.gov

NE REGION DESIGN PROJECT MANAGER

KURT VOGEL, PE
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GREEN BAY, WI 54304
(920) 492-7706
Kurt.Vogel@dot.wi.gov

UTILITY CONTACTS

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SPECTRUM - COMMUNICATION LINE
2580 W MASON STREET
GREEN BAY, WI 54303
(920) 378-3648
dave.bergstrom@charter.com

CHRIS DAILEY
ATC MANAGEMENT, INC -
COMMUNICATION LINE
PO BOX 47
WAUKESHA WI, 53187
(262) 506-6884
cdailey@atcllc.com

CHRIS DAILEY
ATC MANAGEMENT, INC -
ELECTRICITY/TRANSMISSION
PO BOX 47
WAUKESHA WI, 53187
(262) 506-6884
cdailey@atcllc.com

CRAIG OBERG
BRIGHTSPEED OF WESTERN WISCONSIN -
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N 18670 ALGONQUIN TRAIL
PEMBINE, WI 54156
(920) 241-5151
craig.oberg@brightspeed.com

RICK VINCENT
NET LEC LLC - COMMUNICATION LINE
450 SECURITY BLVD
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GREEN BAY, WI 54307
920-617-7316
rick.vincent@nsight.com

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VILLAGE OF CRIVITZ - SEWER
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CRIVITZ, WI 54114
(715) 927-2359
rjensen@crivitz.gov

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VILLAGE OF CRIVITZ - WATER
800 HENRIETTE AVENUE
PO BOX 727
CRIVITZ, WI 54114
(715) 927-2359
rjensen@crivitz.gov

CODY RYE
WISCONSIN PUBLIC SERVICE - ELECTRICITY
2720 S ASHLAND AVENUE
GREEN BAY, WI 54304
(715) 369-7111
(906) 360-0306
cody.rye@wisconsinpublicservice.com

STEVE BONECK
WISCONSIN PUBLIC SERVICE - GAS/PETROLEUM
1717 10TH AVENUE
MENOMINEE, MI 49858
(906) 606-3338
steve.boneck@wisconsinpublicservice.com

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS:	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIPTURF:	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPETURF:			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT:	.70 - .95											
CONCRETE:	.80 - .95											
BRICK:	.70 - .80											
DRIVES, WALKS:	.75 - .85											
ROOFS:	.75 - .95											
GRAVEL ROADS, SHOULDERS:	.40 - .60											

TOTAL PROJECT AREA = 19.53 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 9.14 ACRES

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

2

2

N

END PROJECT
STA 1715+36.64
Y=198,930.696
X=709,629.600

BEGIN PROJECT
STA 1639+00.00
Y=191,318.658
X=709,495.446

INTERSECTION RECONSTRUCTION

INTERSECTION MODIFICATION

RAILROAD CROSSING REHABILITATION (BY OTHERS)
RAILROAD APPROACH RECONSTRUCTION

1700

1680

1660

VILLAGE OF CRIVITZ

PESHTIGO RIVER

SPUR ST

CTH W

DYER ST

MIRA AVE

OLD HWY 141

HALL AVE

PINE AVE

SOUTH ST

WITT ST

SOUTH ST

DESCHANE AVE

FINELLI AVE

OWL LA

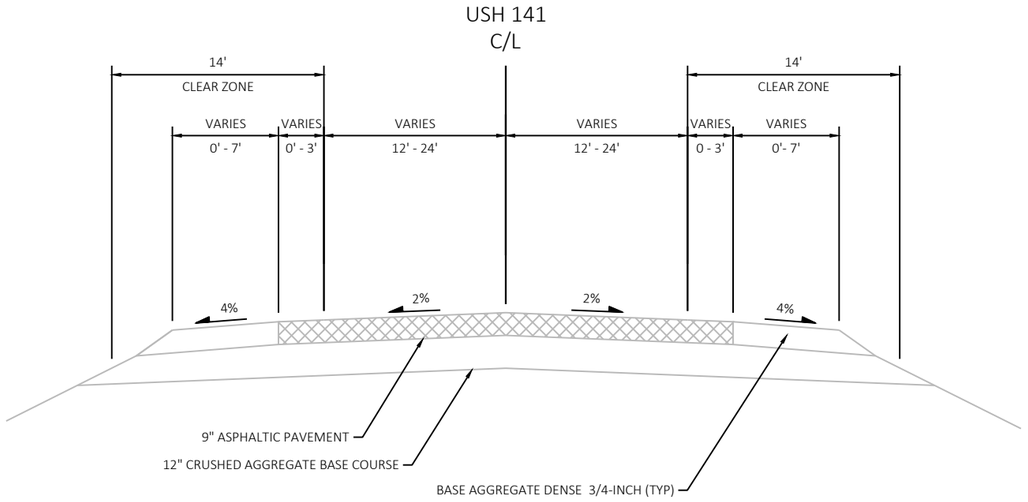
ESCANABA & LAKE SUPERIOR RAILROAD

CTH W

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PROJECT OVERVIEW	SHEET 3	E

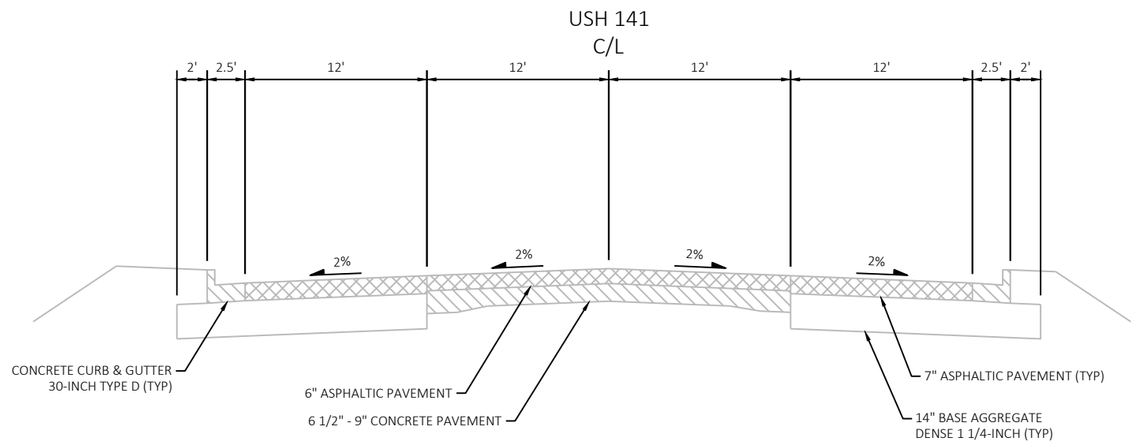
FILE NAME : N:\PDS\C3D\14904000\SHEETS\020201-PO.DWG
LAYOUT NAME - 020201-po
PLOT DATE : 5/24/2024 1:58 PM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 42

2



EXISTING TYPICAL SECTION USH 141

STA 1639+00 TO STA 1641+20

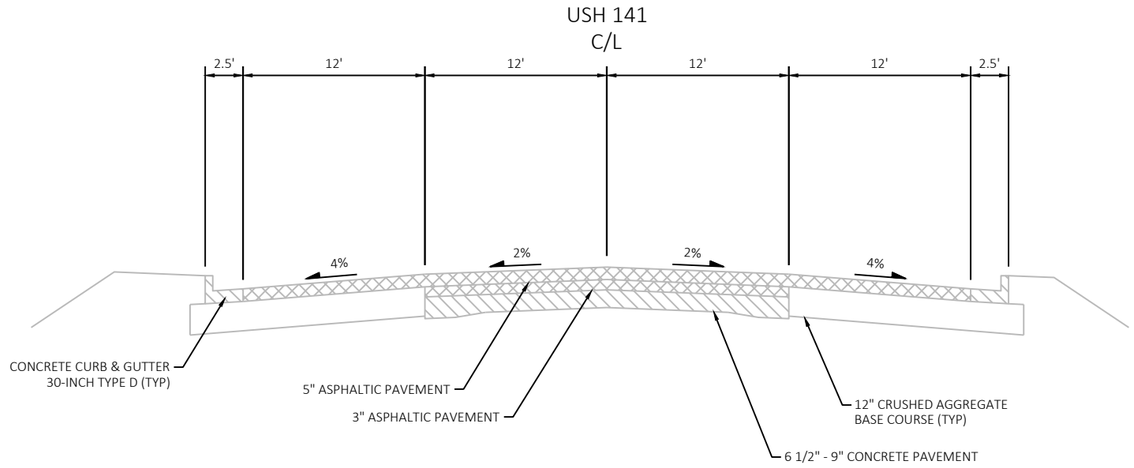


EXISTING TYPICAL SECTION USH 141

STA 1641+20 TO STA 1666+85

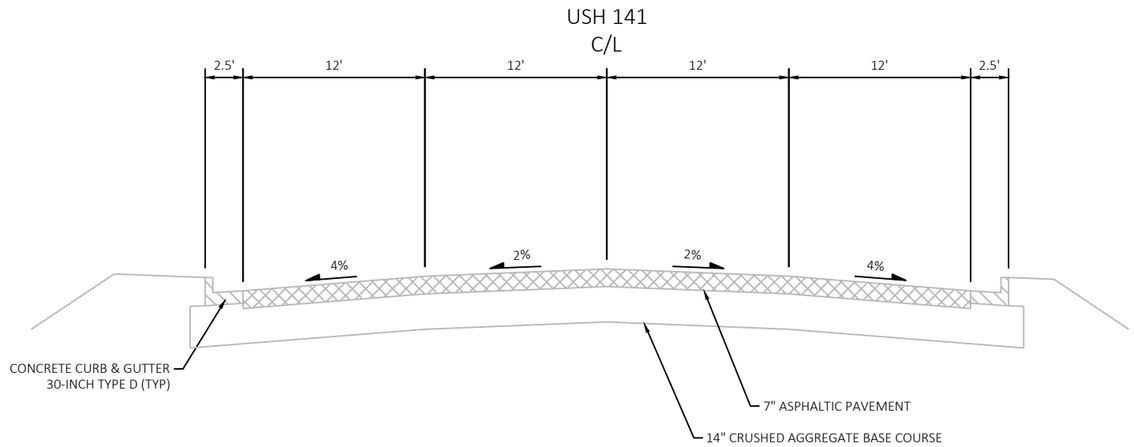
PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TYPICAL SECTIONS	SHEET 4	E

2



EXISTING TYPICAL SECTION USH 141

STA 1666+85 TO STA 1692+39
STA 1693+95 TO STA 1698+45
STA 1702+35 TO STA 1704+13

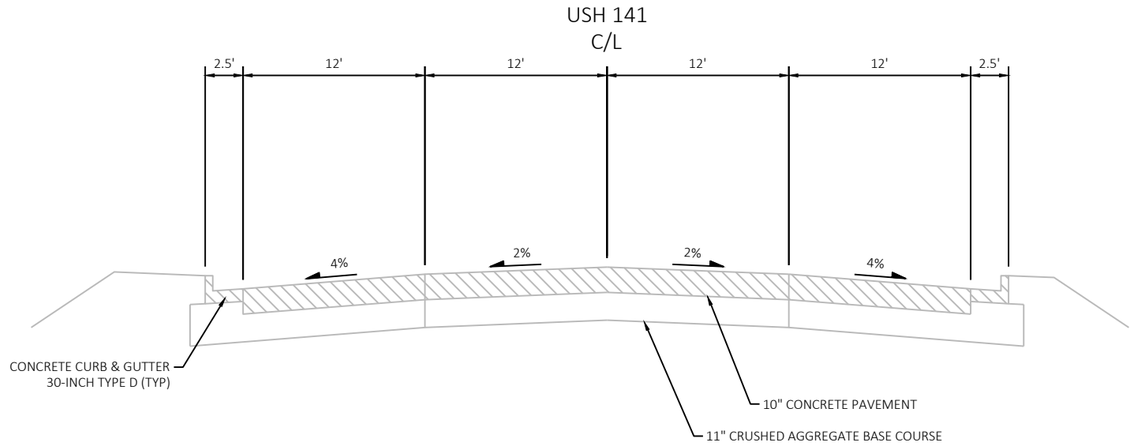


EXISTING TYPICAL SECTION USH 141

STA 1692+39 TO STA 1692+91
STA 1693+55 TO STA 1693+95

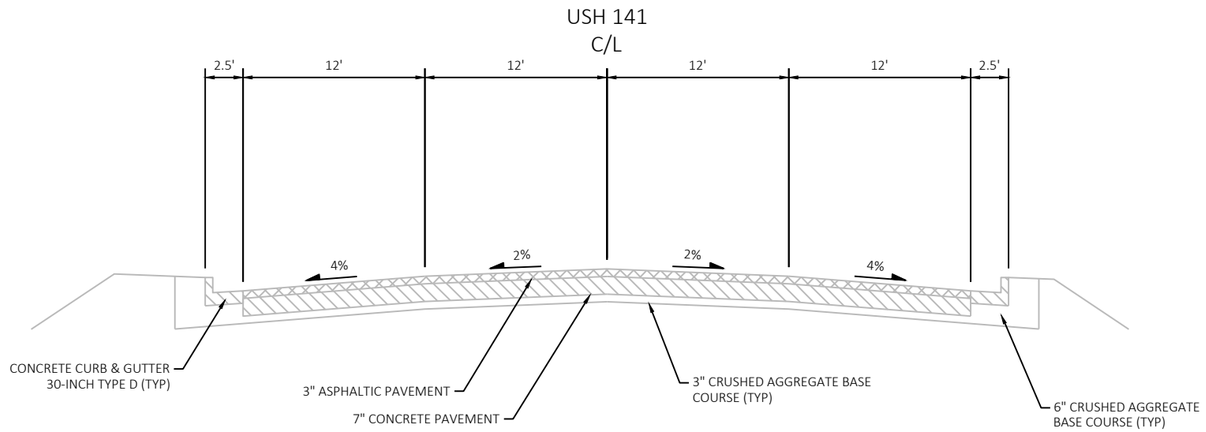
PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TYPICAL SECTIONS	SHEET 5	E

2



EXISTING TYPICAL SECTION USH 141

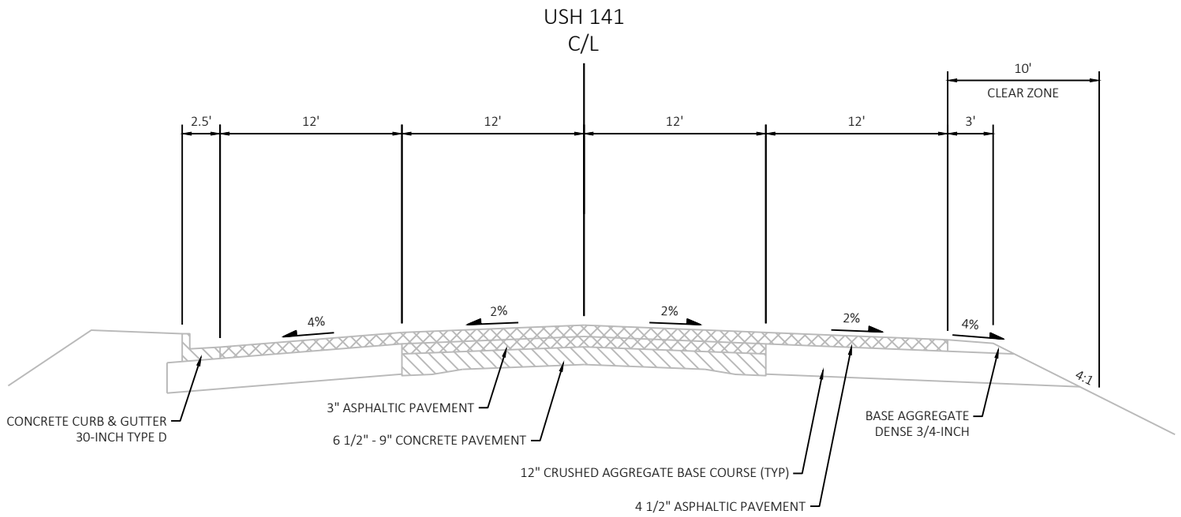
STA 1692+91 TO STA 1693+55



EXISTING TYPICAL SECTION USH 141

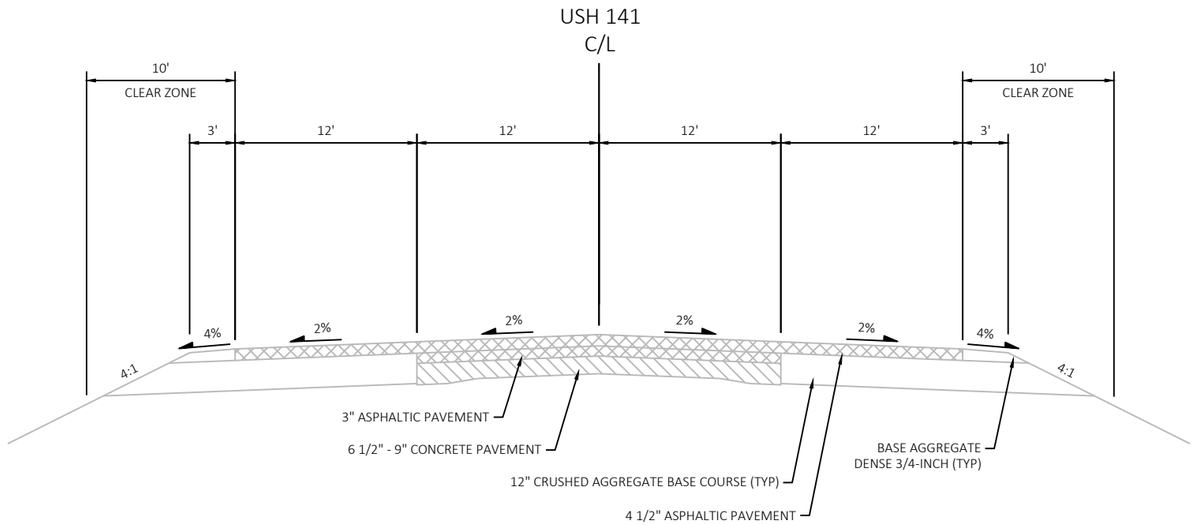
STA 1698+45 TO STA 1702+35

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TYPICAL SECTIONS	SHEET 6	E



EXISTING TYPICAL SECTION USH 141

STA 1704+13 TO STA 1707+25

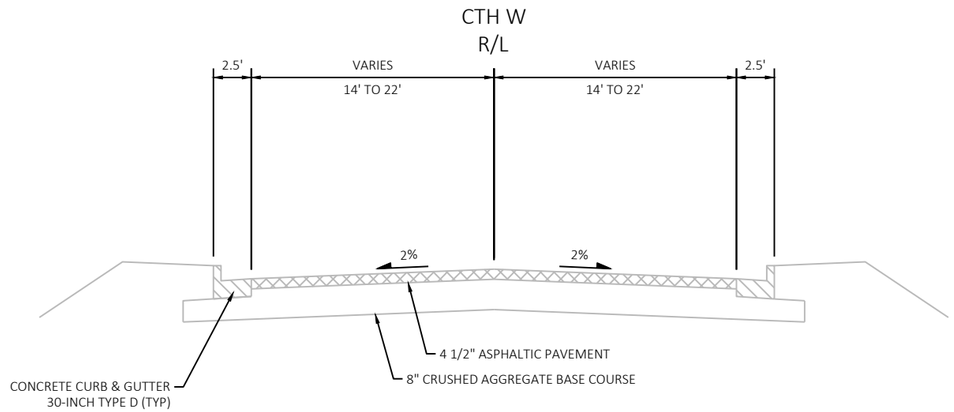


EXISTING TYPICAL SECTION USH 141

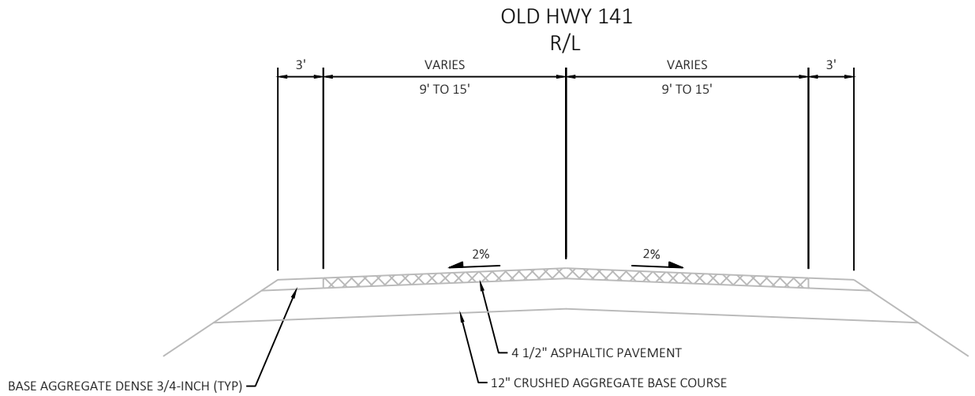
STA 1707+25 TO STA 1715+37

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TYPICAL SECTIONS	SHEET 7	E

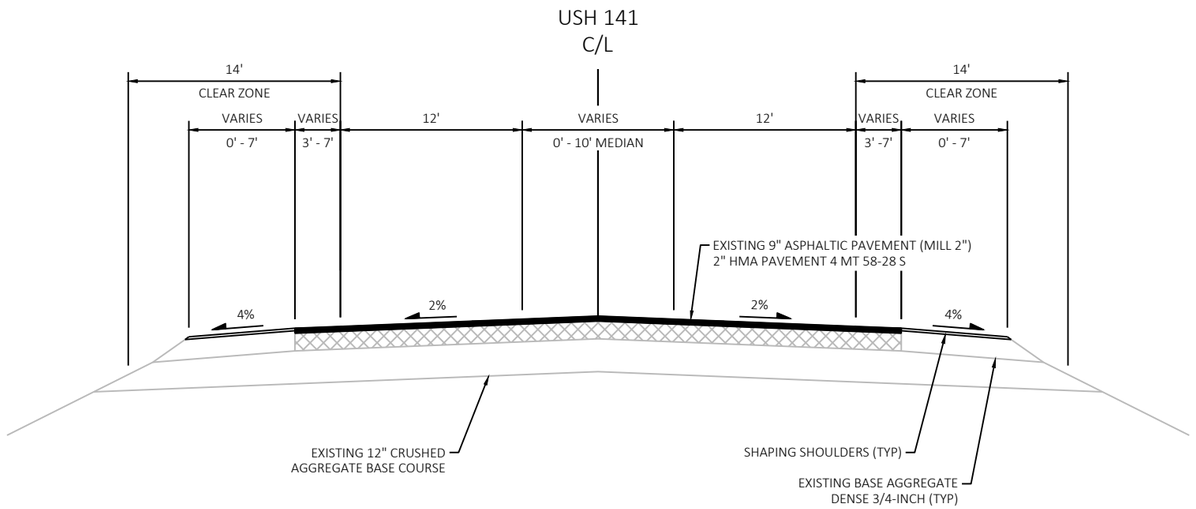
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EXISTING TYPICAL SECTION FOR CTH W

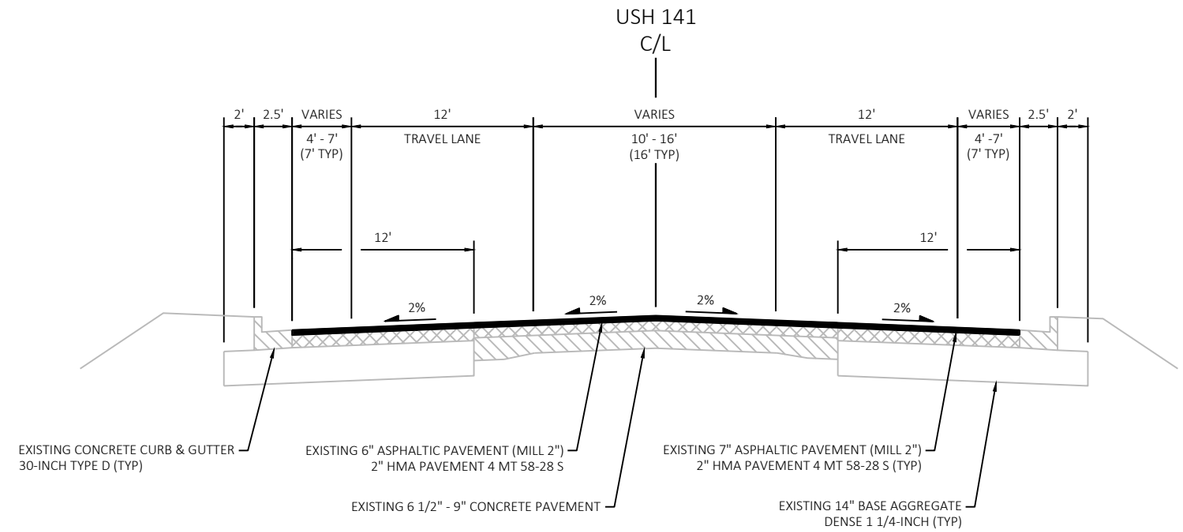


EXISTING TYPICAL SECTION FOR OLD HWY 141



FINISHED TYPICAL SECTION USH 141

STA 1639+00 TO STA 1641+20

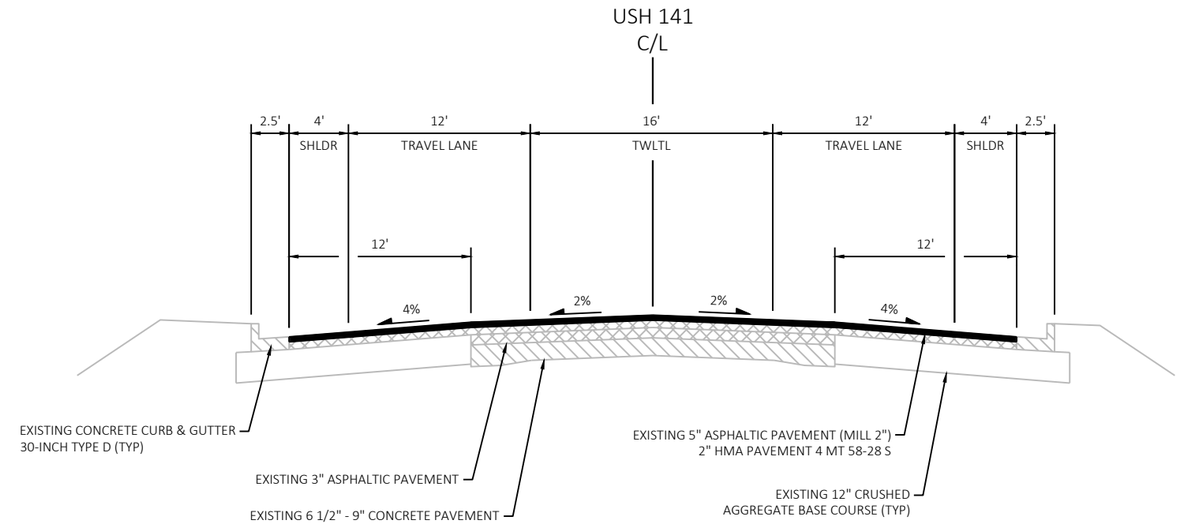


FINISHED TYPICAL SECTION USH 141

STA 1641+20 TO STA 1666+85

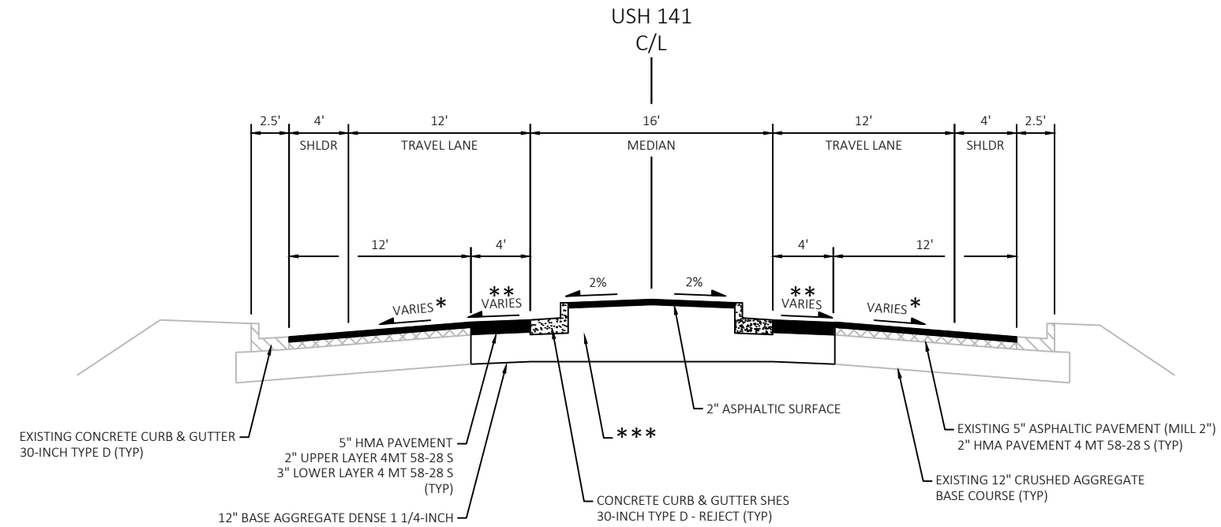
PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TYPICAL SECTIONS	SHEET 9	E

2



FINISHED TYPICAL SECTION USH 141

STA 1666+85 TO STA 1691+92
STA 1694+54 TO STA 1698+45
STA 1702+35 TO STA 1704+13



FINISHED TYPICAL SECTION USH 141

STA 1691+92 TO STA 1692+39
STA 1693+95 TO STA 1694+54

NOTES:

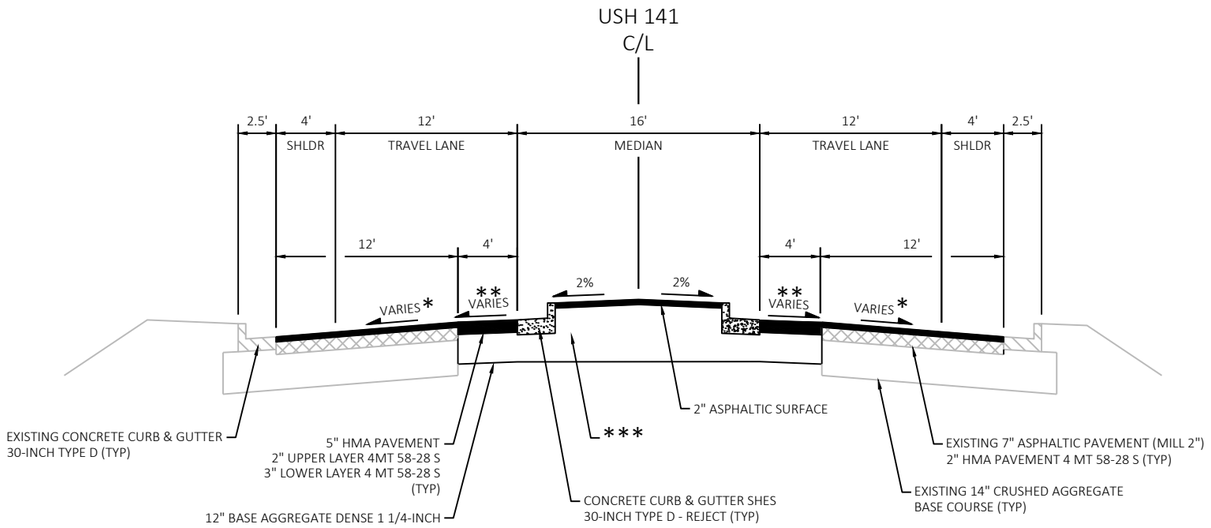
* CROSS SLOPE VARIES FROM 2% TO 4%

** CROSS SLOPE VARIES FROM 1% TO 3%

*** BASE AGGREGATE DENSE 1 1/4-INCH SHALL CONTINUE AND FILL BEHIND CURB AND UNDER 2" ASPHALTIC SURFACE

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TYPICAL SECTIONS	SHEET 10	E

2



FINISHED TYPICAL SECTION USH 141

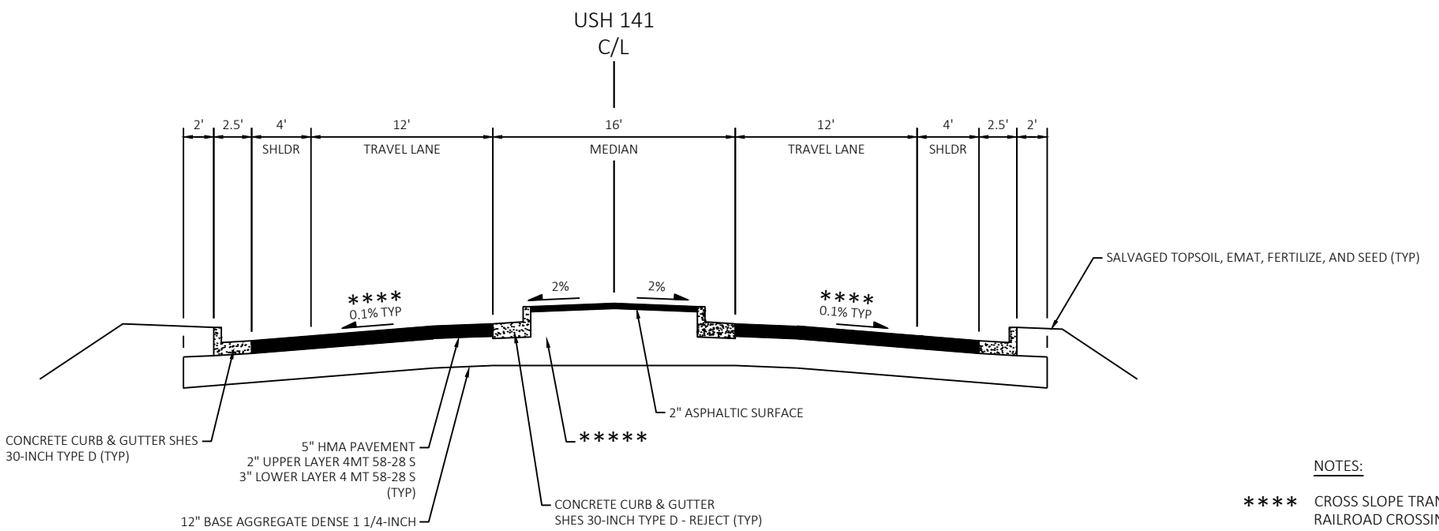
STA 1692+39 TO STA 1692+70
STA 1693+64 TO STA 1693+95

NOTES:

* CROSS SLOPE VARIES FROM 2% TO 4%

** CROSS SLOPE VARIES FROM 1% TO 3%

*** BASE AGGREGATE DENSE 1 1/4-INCH SHALL CONTINUE AND FILL BEHIND CURB AND UNDER 2" ASPHALTIC SURFACE.



FINISHED TYPICAL SECTION USH 141

STA 1692+70 TO STA 1693+20 ******
STA 1693+26 TO STA 1693+64

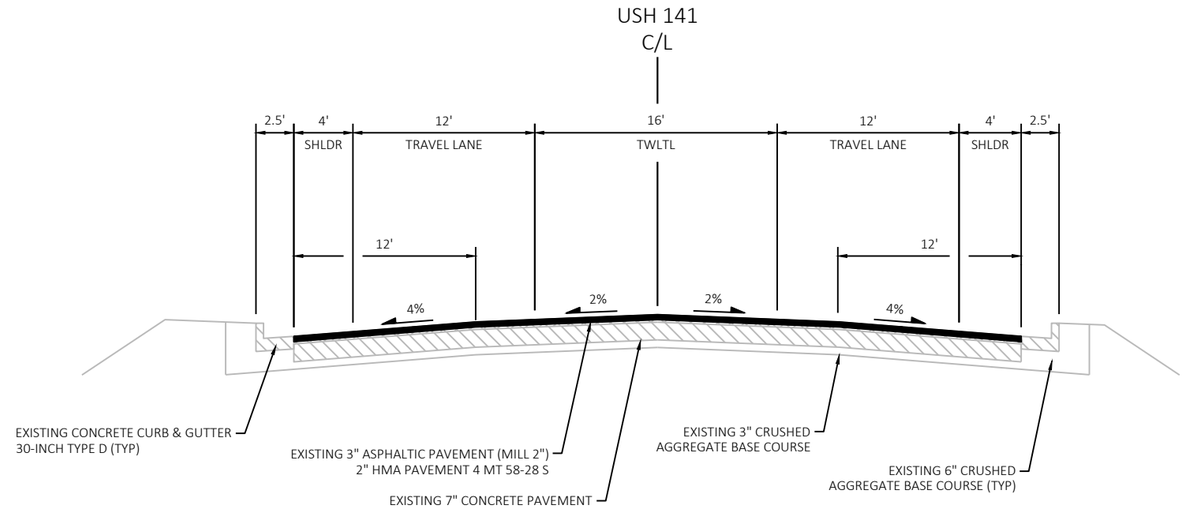
NOTES:

**** CROSS SLOPE TRANSITIONS TO 0.1% APPROACHING RAILROAD CROSSING. SEE PLAN DETAILS.

***** BASE AGGREGATE DENSE 1 1/4-INCH SHALL CONTINUE AND FILL BEHIND CURB AND UNDER 2" ASPHALTIC SURFACE.

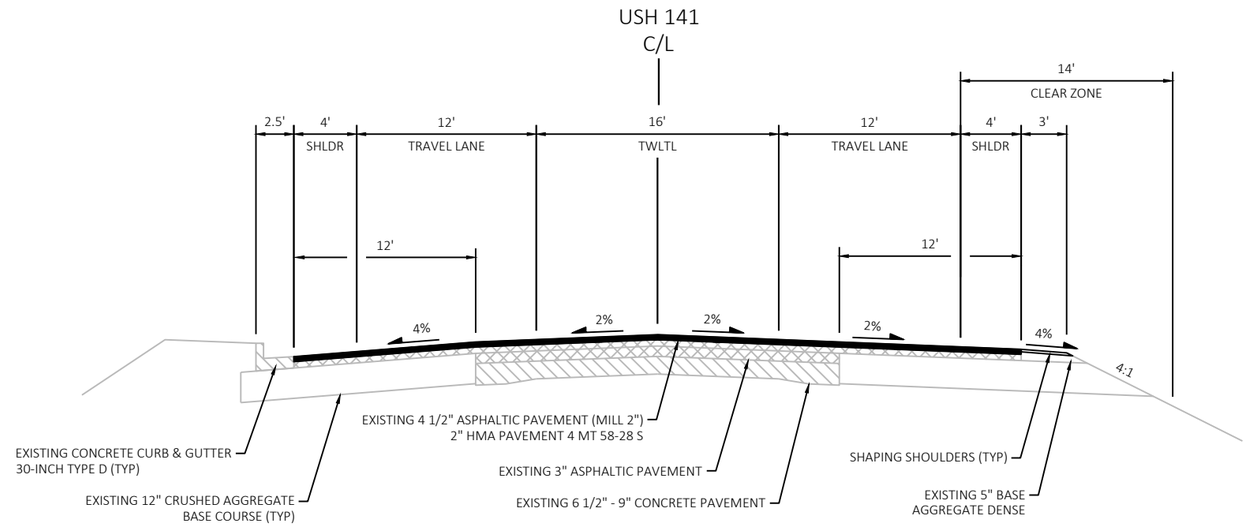
****** STA 1693+20 TO STA 1693+26 RAILROAD CROSSING REHABILITATION, BY OTHERS. SEE PLAN DETAILS.

2



FINISHED TYPICAL SECTION USH 141

STA 1698+45 TO STA 1702+35

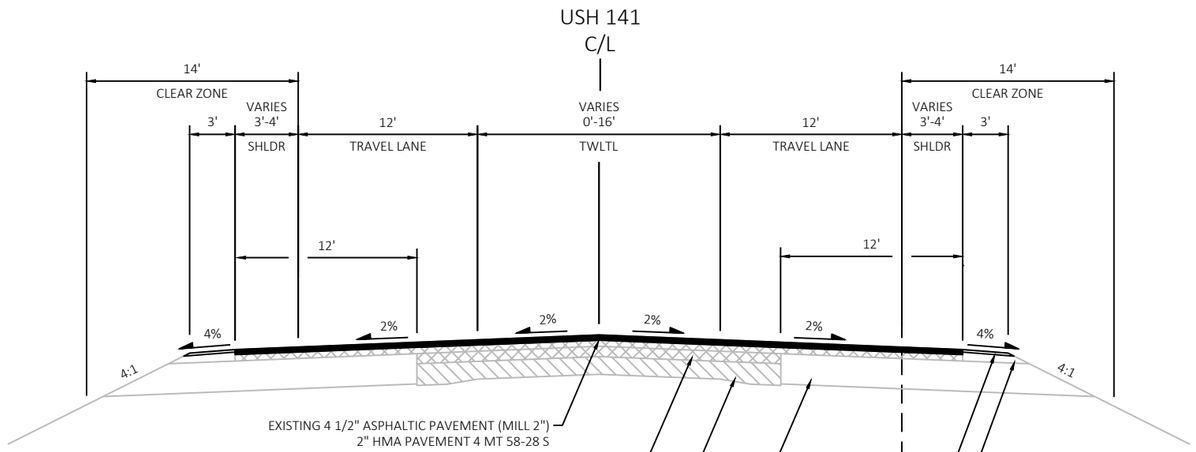


FINISHED TYPICAL SECTION USH 141

STA 1704+13 TO STA 1707+25

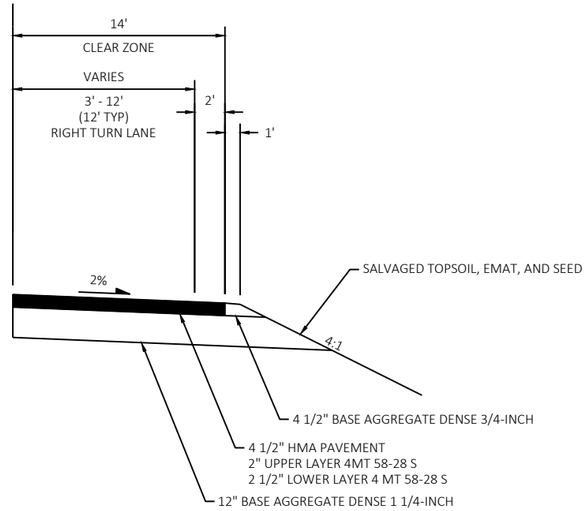
PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TYPICAL SECTIONS	SHEET 12	E

2



FINISHED TYPICAL SECTION USH 141

STA 1707+25 TO STA 1715+37



RIGHT TURN LANE

STA 1709+99 TO STA 1715+13

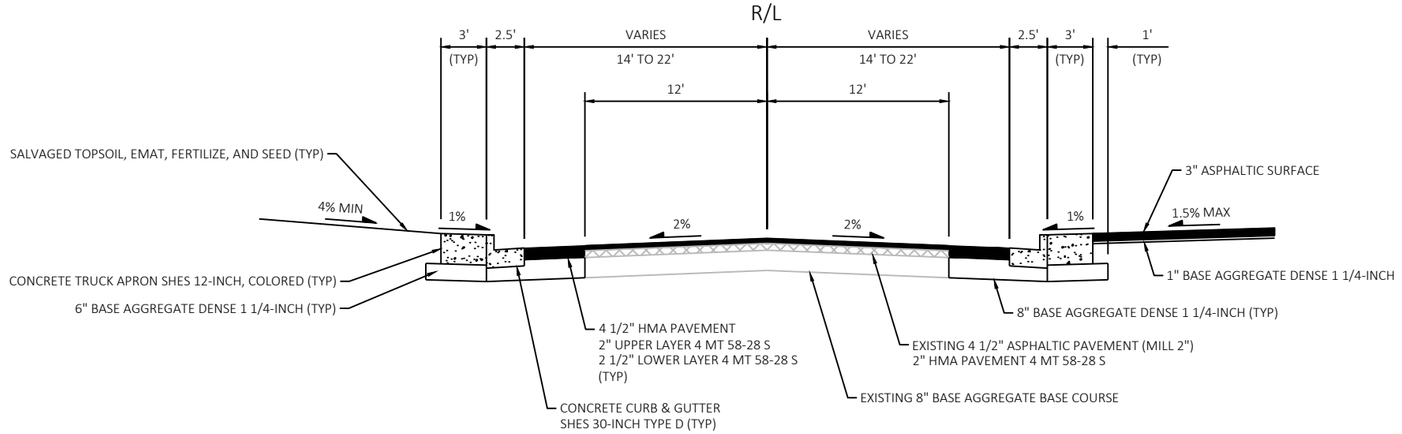
PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TYPICAL SECTIONS	SHEET 13	E

2

PERMEABLE FINISHING

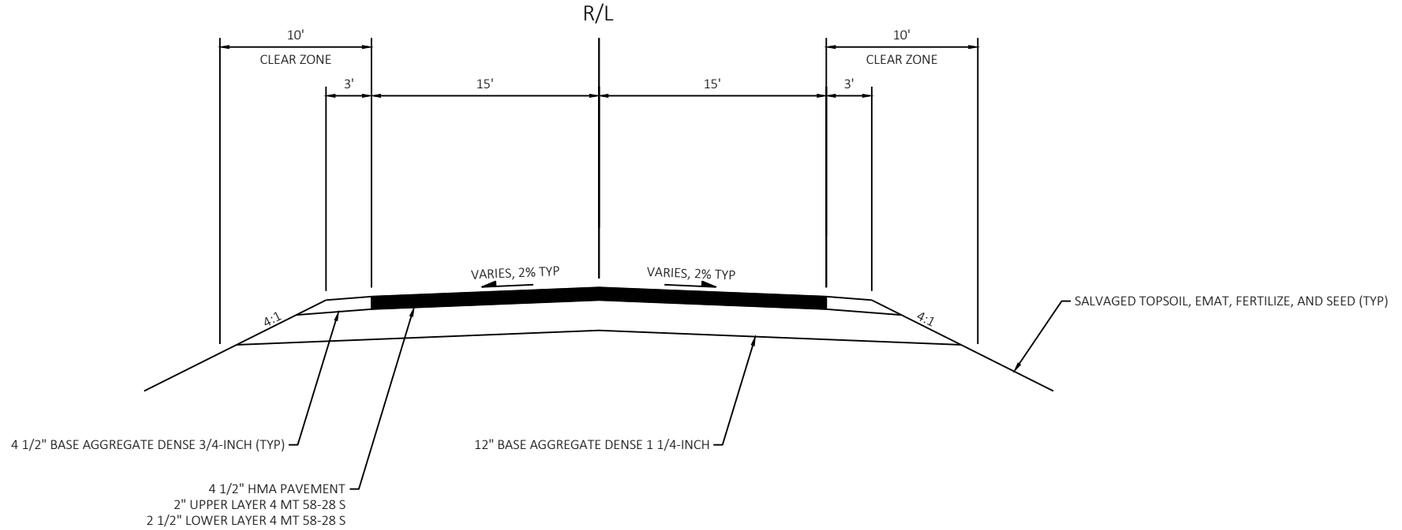
CTH W
R/L

IMPERVIOUS FINISHING



FINISHED TYPICAL SECTION FOR CTH W

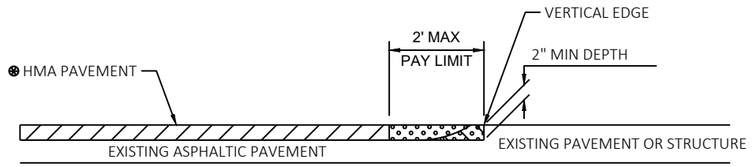
OLD HWY 141
R/L



FINISHED TYPICAL SECTION FOR OLD HWY 141

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TYPICAL SECTIONS	SHEET 14	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\020301-TS.DWG
LAYOUT NAME - 020311-ts
PLOT DATE : 12/18/2024 10:29 AM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1IN:10 FT
WISDOT/CADDS SHEET 42



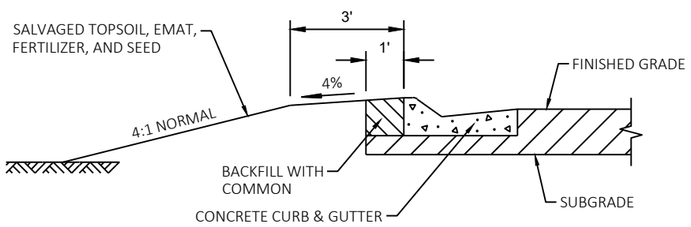
REMOVING ASPHALTIC SURFACE, MILLING

REMOVING ASPHALTIC SURFACE, BUTT JOINTS

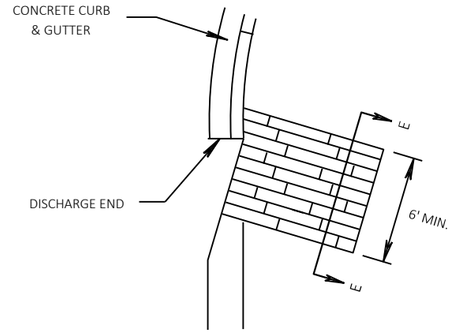
REMOVE ASPHALTIC SURFACE WEDGE AT BUTT JOINT TO CREATE VERTICAL EDGE

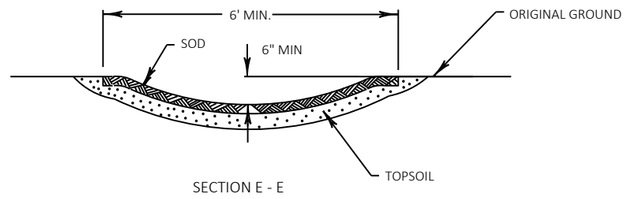
HMA SEE TYPICAL CROSS SECTION FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS

BUTT JOINT DETAIL FOR ASPHALTIC PAVEMENTS (NO PROFILE CHANGE)



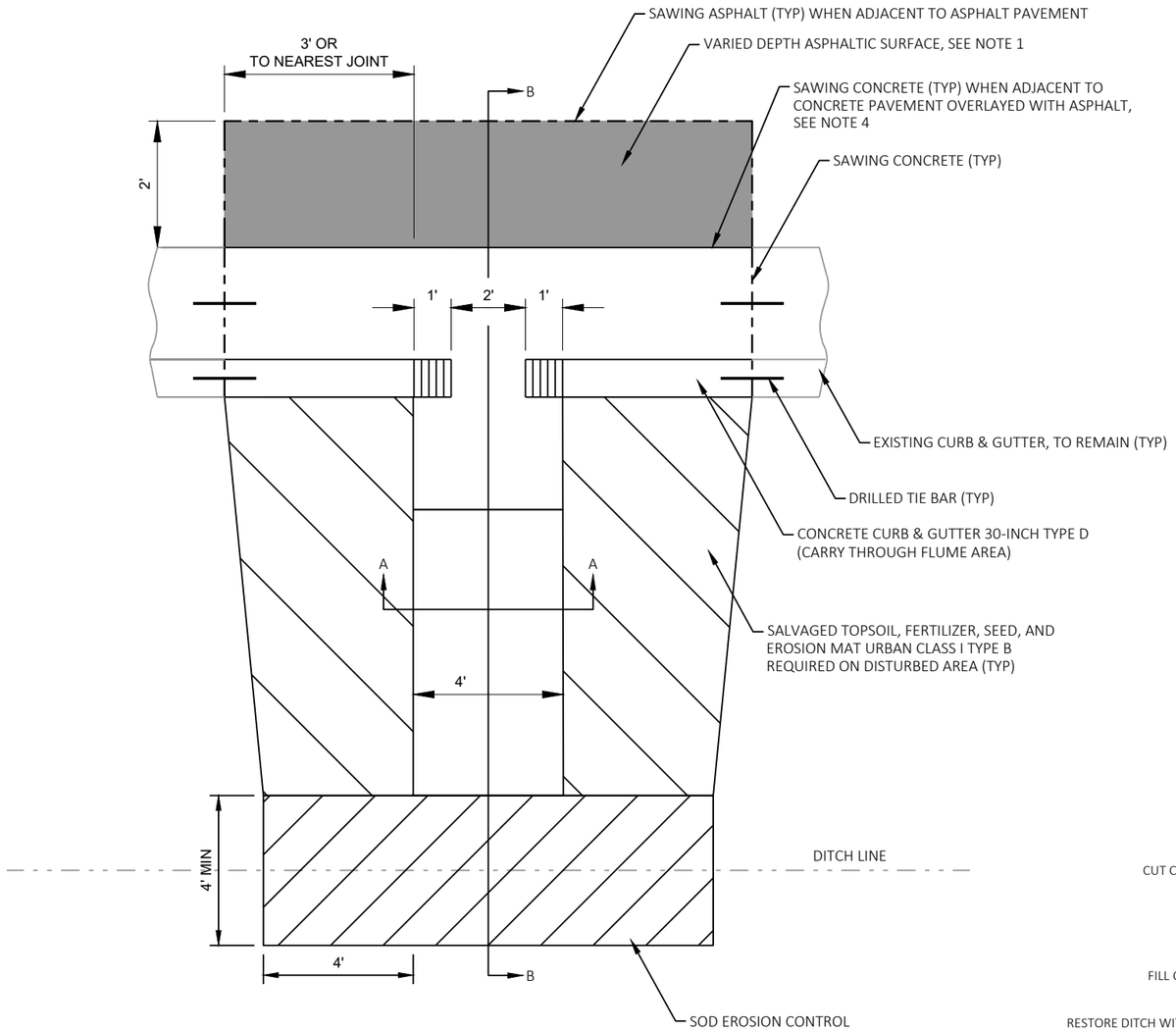
BERM DETAIL BEHIND CURB & GUTTER

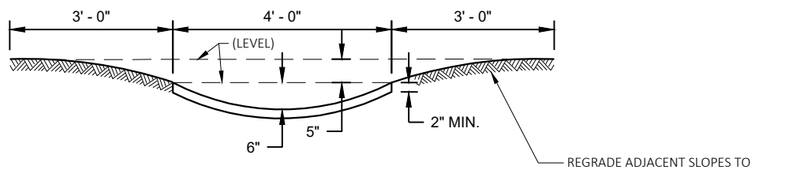




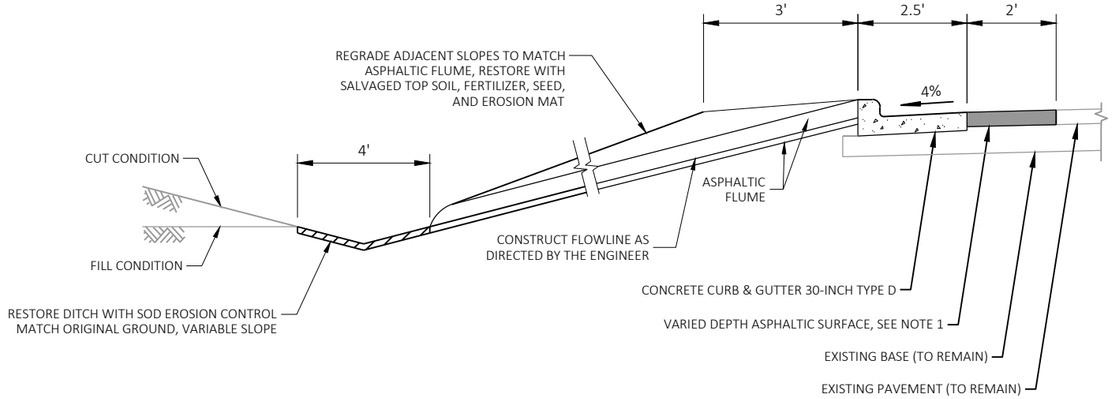
SOD FLUME DETAIL AT CURB ENDS

2





SECTION A-A



SECTION B-B

NOTES:

1. ASPHALTIC SURFACE (LEVELING LAYER) DEPTHS AS FOLLOWS:
   5" DEPTH FROM STA 1666+85 TO STA 1698+45
   5" DEPTH FROM STA 1702+45 TO STA 1704+13
   4 1/2" DEPTH FROM STA 1704+13 TO STA 1707+25

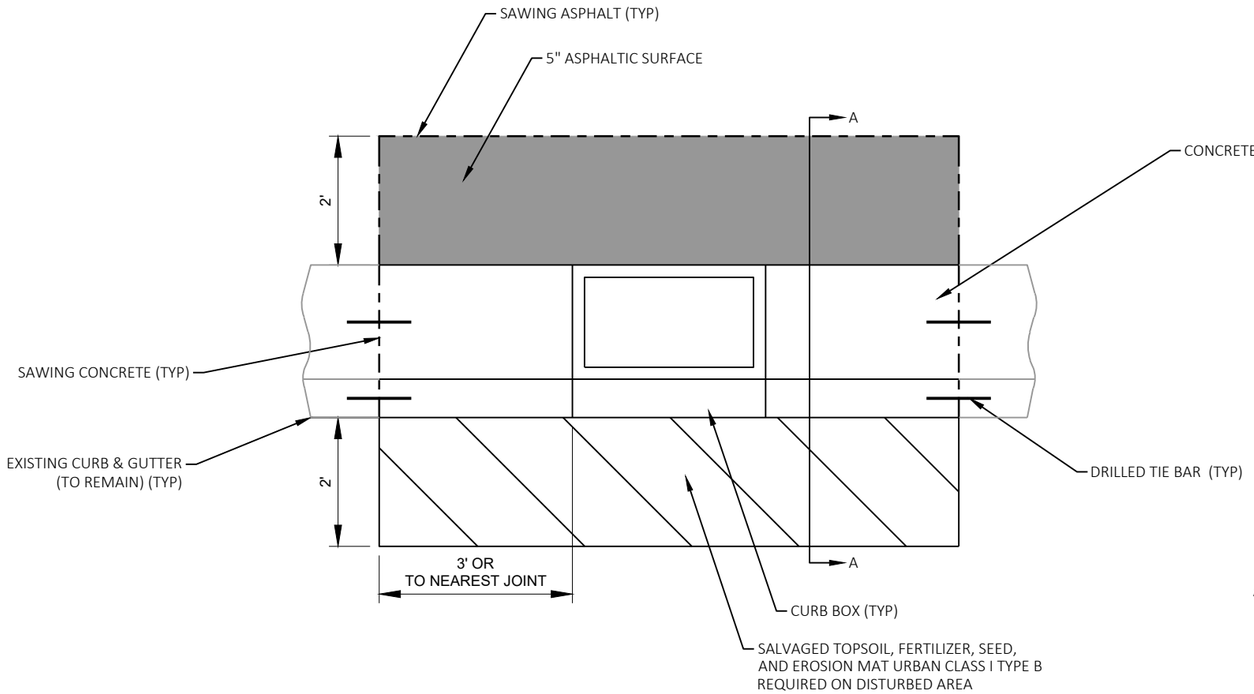
2. SAWCUTTING, AS REQUIRED, PAID FOR UNDER SAWING ASPHALT AND SAWING CONCRETE.

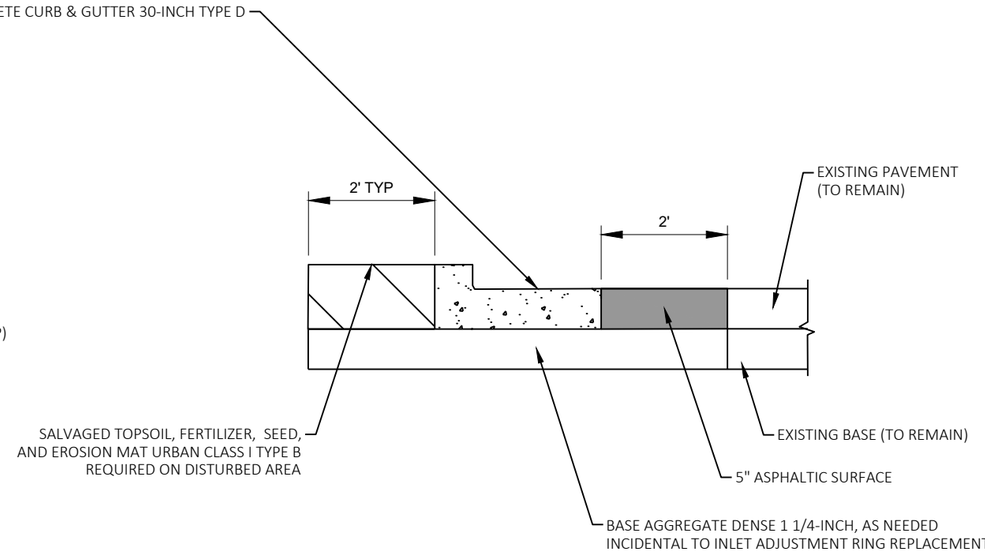
3. REMOVALS SHALL BE PAID FOR UNDER REMOVING CURB & GUTTER, REMOVING INLETS, REMOVING STORM SEWER (12-INCH), AND EXCAVATION COMMON (INCLUDES ASPHALT REMOVAL).

4. CONCRETE PRESENT UNDER ASPHALT PAVEMENT FROM STA 1698+45 TO STA 1702+45. FULL DEPTH REMOVAL AND REPLACEMENT ADJACENT TO CURB AND GUTTER NOT REQUIRED IN THESE LOCATIONS.

ASPHALTIC FLUME DETAIL

2





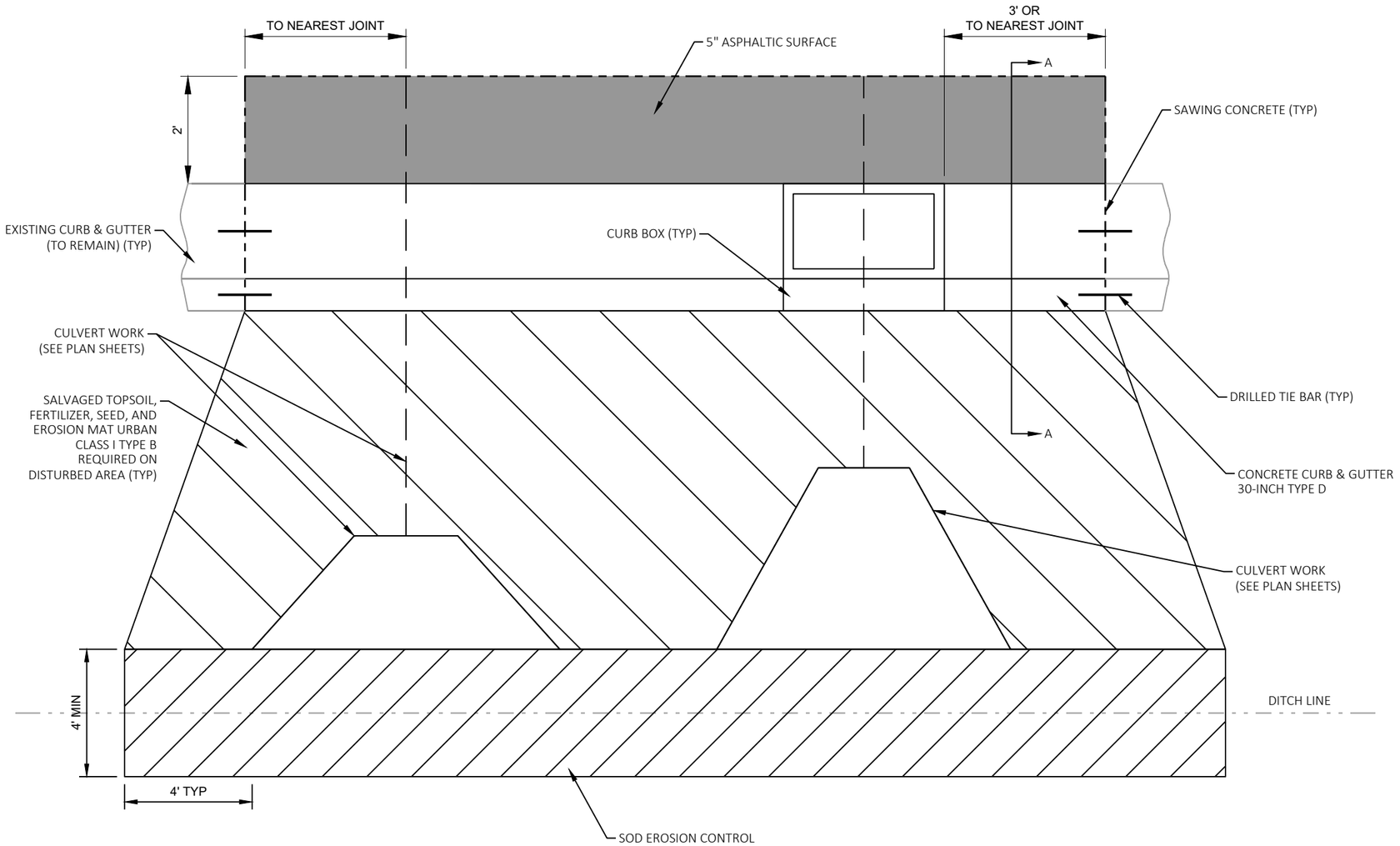
SECTION A-A

NOTES:

1. THE CURB BOX OPENING SHALL BE SEALED PRIOR TO POURING THE CONCRETE CURB TO PREVENT CONCRETE FROM ENTERING THE STRUCTURE.
2. REUSE EXISTING GRATE AND CASTING UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. SAWCUTTING, AS REQUIRED, PAID FOR UNDER SAWING ASPHALT AND SAWING CONCRETE.
4. REMOVALS SHALL BE PAID FOR UNDER REMOVING CURB & GUTTER AND EXCAVATION COMMON (INCLUDES ASPHALT REMOVAL).

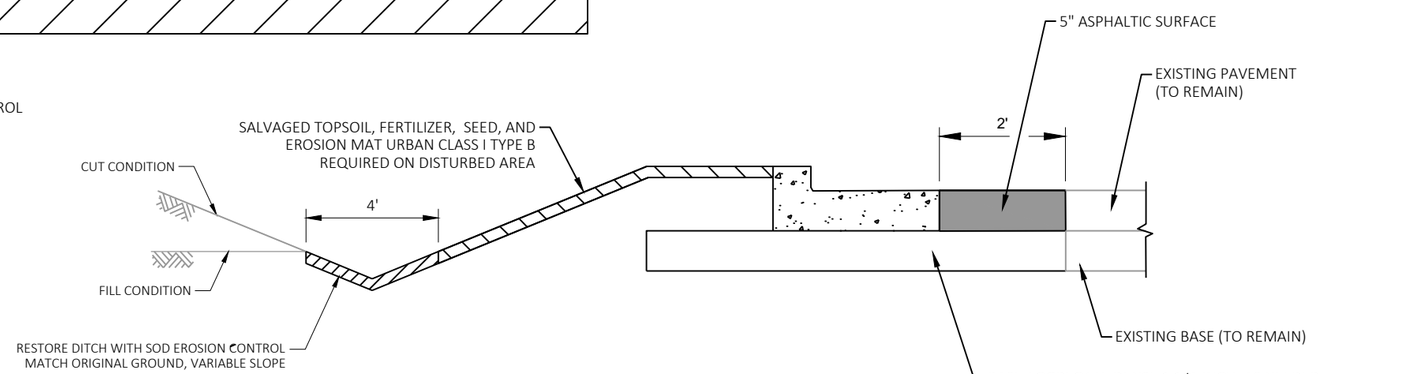
INLET ADJUSTMENT RING REPLACEMENT DETAIL

2



NOTES:

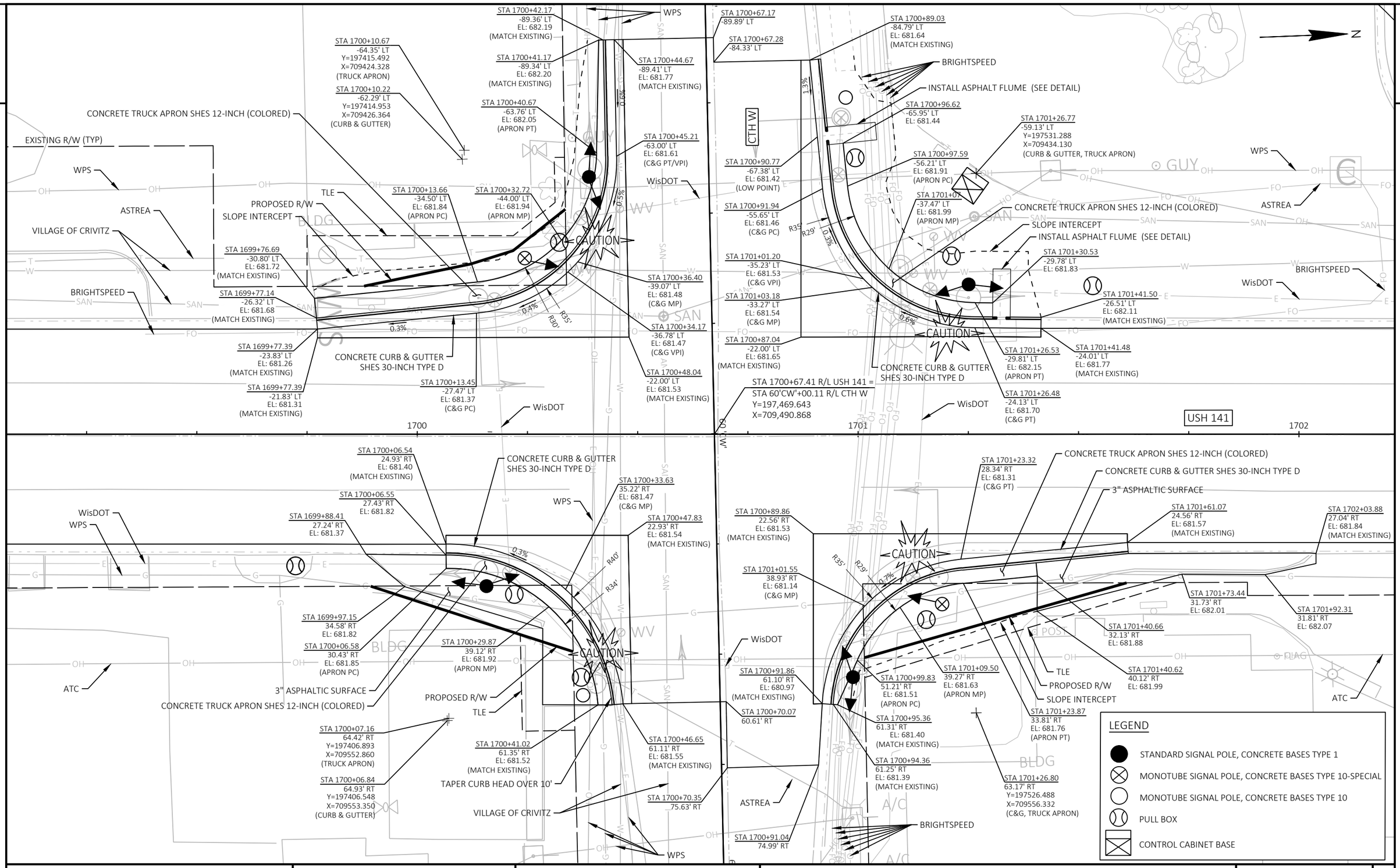
1. THE CURB BOX OPENING SHALL BE SEALED PRIOR TO POURING THE CONCRETE CURB TO PREVENT CONCRETE FROM ENTERING THE STRUCTURE.
2. REUSE EXISTING GRATE AND CASTING UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. SAWCUTTING, AS REQUIRED, PAID FOR UNDER SAWING ASPHALT AND SAWING CONCRETE.
4. REMOVALS SHALL BE PAID FOR UNDER REMOVING CURB & GUTTER AND EXCAVATION COMMON (INCLUDES ASPHALT REMOVAL).
5. SEE REMOVAL PLANS AND PLAN SHEETS FOR CULVERT WORK INFORMATION.



SECTION A-A

INLET ADJUSTMENT RING REPLACEMENT WITH CULVERT WORK DETAIL

2



PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	INTERSECTION DETAILS	SHEET 19	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\021101-ID.DWG
LAYOUT NAME - 021101-id

PLOT DATE : 10/1/2024 10:12 AM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

N

SIGN

SIGN

EXISTING R/W

ATC

WPS

STA 1713+78.46 R/L USH 141 =
STA 10'OH'+00.00 R/L Old Hwy 141
Y=198,774.690
X=709,603.475

PT: 1713+78.46

R7628'

STA 1713+47.94
12.00' RT
EL: 685.20
(PCC, MATCH EXISTING)

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

STA 1714+33.46
24.00' RT
EL: 684.91
(C&G PT)

STA 1715+13.46
12.00' RT
EL: 685.13
(MATCH EXISTING)

STA 1713+21.60
27.91' RT
EL: 684.82

STA 1713+01.82
25.11' RT
EL: 684.90
(C&G PC)

STA 1714+18.48
26.91' RT
EL: 684.87

USH 141

1710 1711 1712 1713 1714 1715

R8112'

STA 1709+98.59
20.00' RT
EL: 684.48
(MATCH EXISTING)

12'

0.4% 0.8% R60' 2.4%

STA 1713+46.95
43.55' RT
EL: 684.27

0.3%

R40' 2.4%

STA 1713+95.99
50.00' RT
EL: 684.10

STA 1715+13.46
15.00' RT
EL: 685.08
(END TAPER)

SLOPE INTERCEPT

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

CAUTION

STA 1713+30.88
31.70' RT
EL: 684.74

STA 1714+15.00
54.00' RT
EL: 680.30'

STA 1711+16.21
29.42' RT
EL: 684.53
(END TAPER)

2' 1'

1.8% 0.8%

STA 1713+26.50
55' RT
EL: 680.07'

STA 1713+52.36
49.95' RT
EL: 684.11

STA 1713+93.46
63.71' RT
EL: 683.77
(C&G PC)

STA 1714+33.46
64.00' RT
Y=198818.364
X=709675.680

1.2% 2.1%

STA 1713+03.29
85.09' RT
Y=198687.261
X=709675.479

STA 1713+63.08
75.13' RT
EL: 683.90
(C&G PT)

0.9%

STA 1713+93.39
73.71' RT
EL: 683.66

STA 1713+95.65
92.89' RT
EL: 683.25

11 'OH'

STA 1713+67.54
100.68' RT
EL: 683.66
(MATCH EXISTING)

EXISTING R/W

WPS

WPS

ATC

STA 1709+98.63
22.00' RT
EL: 684.44
(BEGIN TAPER)

SLOPE INTERCEPT

OLD HWY 141

88 LF CPRC CLASS IV 24-INCH @ 0.26%

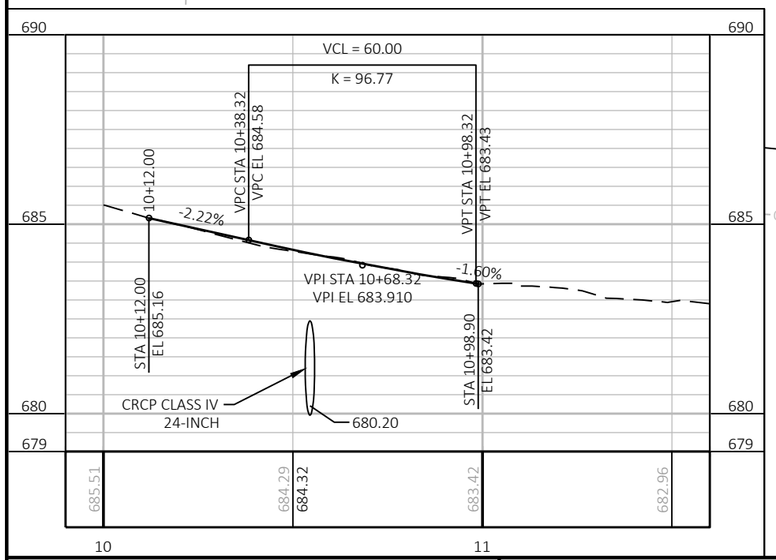
12 'OH'

13 'OH'

OH

ATC

EXISTING R/W



TYPE B2 INTERSECTION
SEE WISDOT STANDARD DETAIL DRAWING "AT GRADE SIDE ROAD INTERSECTION" FOR ADDITIONAL DETAILS NOT SHOWN ON THIS PLAN.

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	INTERSECTION DETAILS	SHEET 20	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\021102-ID.DWG
LAYOUT NAME - 021102-id
PLOT DATE : 10/1/2024 10:12 AM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

SOUTH ST

24' S.

N

ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

USH 141

1670

USH 141 R/L

ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

29' S.

EXISTING R/W (TYP)

MATCH LINE 1674+50

ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

EXISTING R/W (TYP)

N

MATCH LINE 1674+50

1675

1680

USH 141

USH 141 R/L

ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

WITT ST

MATCH LINE 1682+00

LEGEND

- REMOVING SMALL PIPE CULVERTS (INCLUDES ENDWALLS)
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE (PAID FOR AS COMMON EXCAVATION)
- REMOVING CURB
- REMOVING CURB & GUTTER
- REMOVING INLETS
- SS — REMOVING STORM SEWER (INCLUDES ENDWALLS)
- XXXXXXXXXX — SAWCUT LOCATION
- A — ASPHALT SAWING
- C — CONCRETE SAWING
- REMOVING GRAVEL (PAID FOR AS COMMON EXCAVATION)
- INLET ADJUSTMENT RING REPLACEMENT
- SALVAGING ENDWALLS
- REMOVING BUSINESS SIGN
- POTENTIAL PETROLEUM CONTAMINATION (EXCAVATION, HAULING, AND DISPOSAL OF CONTAMINATED SOIL)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	REMOVAL DETAILS	SHEET 21	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\021100-RM.DWG
LAYOUT NAME - 021103-rm

PLOT DATE : 10/1/2024 12:19 PM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

MATCH LINE 1682+00

MATCH LINE 1689+50

MATCH LINE 1689+50

MATCH LINE 1697+00

PINE AVE

14 TP

HALL AVE

24 TP

USH 141 R/L

1685

1690

1695

USH 141

USH 141

ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

EXISTING R/W (TYP)

ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

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ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

USH 141 R/L

ADDITIONAL REMOVALS REQ'D (SEE ASPHALT FLUME DETAIL)

ESCANABA & LAKE SUPERIOR RAILROAD

N

N

LEGEND

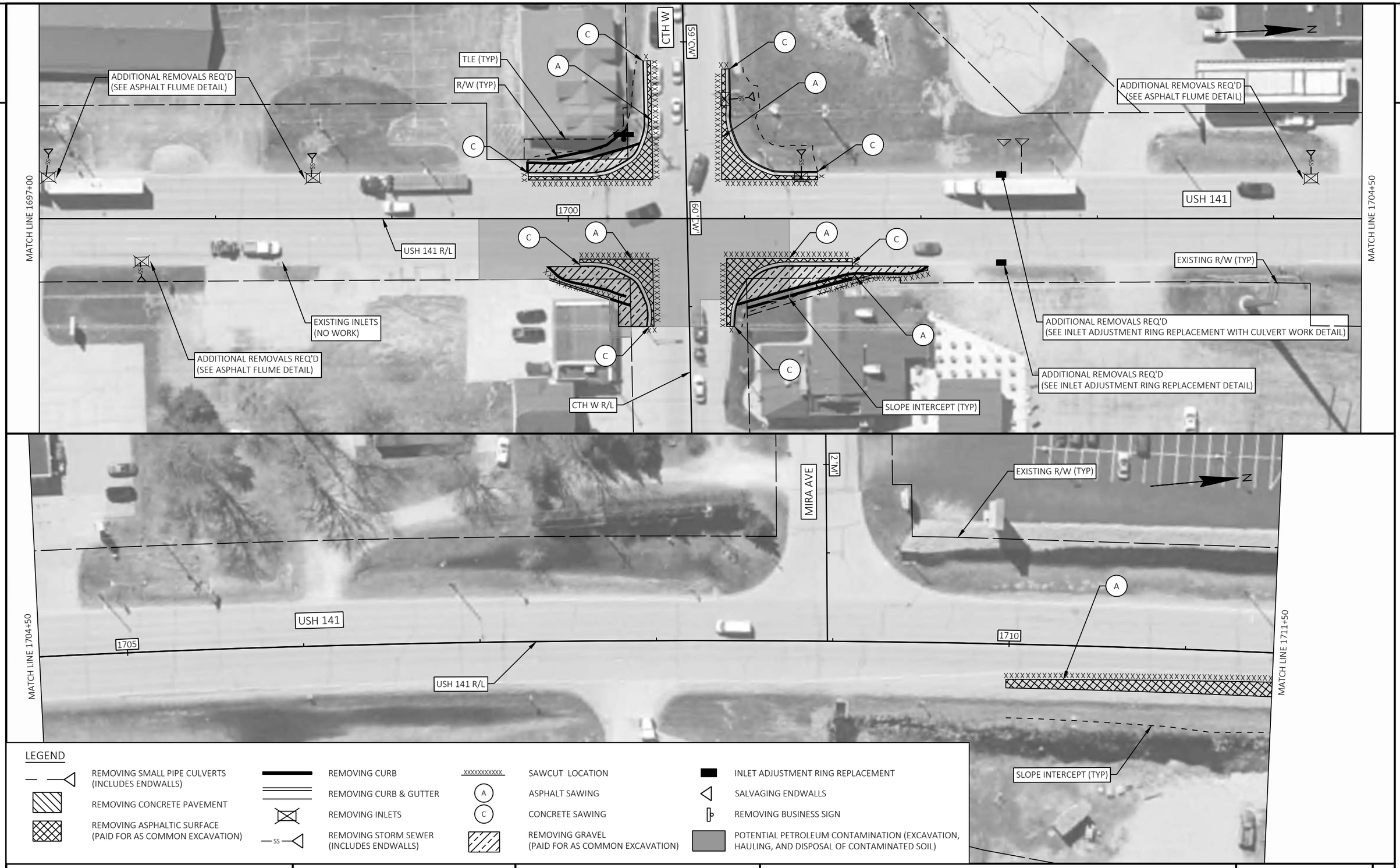
- REMOVING SMALL PIPE CULVERTS (INCLUDES ENDWALLS)
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE (PAID FOR AS COMMON EXCAVATION)
- REMOVING CURB
- REMOVING CURB & GUTTER
- REMOVING INLETS
- REMOVING STORM SEWER (INCLUDES ENDWALLS)
- SAWCUT LOCATION
- ASPHALT SAWING
- CONCRETE SAWING
- REMOVING GRAVEL (PAID FOR AS COMMON EXCAVATION)
- INLET ADJUSTMENT RING REPLACEMENT
- SALVAGING ENDWALLS
- REMOVING BUSINESS SIGN
- POTENTIAL PETROLEUM CONTAMINATION (EXCAVATION, HAULING, AND DISPOSAL OF CONTAMINATED SOIL)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	REMOVAL DETAILS	SHEET 22	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\021100-RM.DWG
LAYOUT NAME - 021104-rm

PLOT DATE : 10/1/2024 12:19 PM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

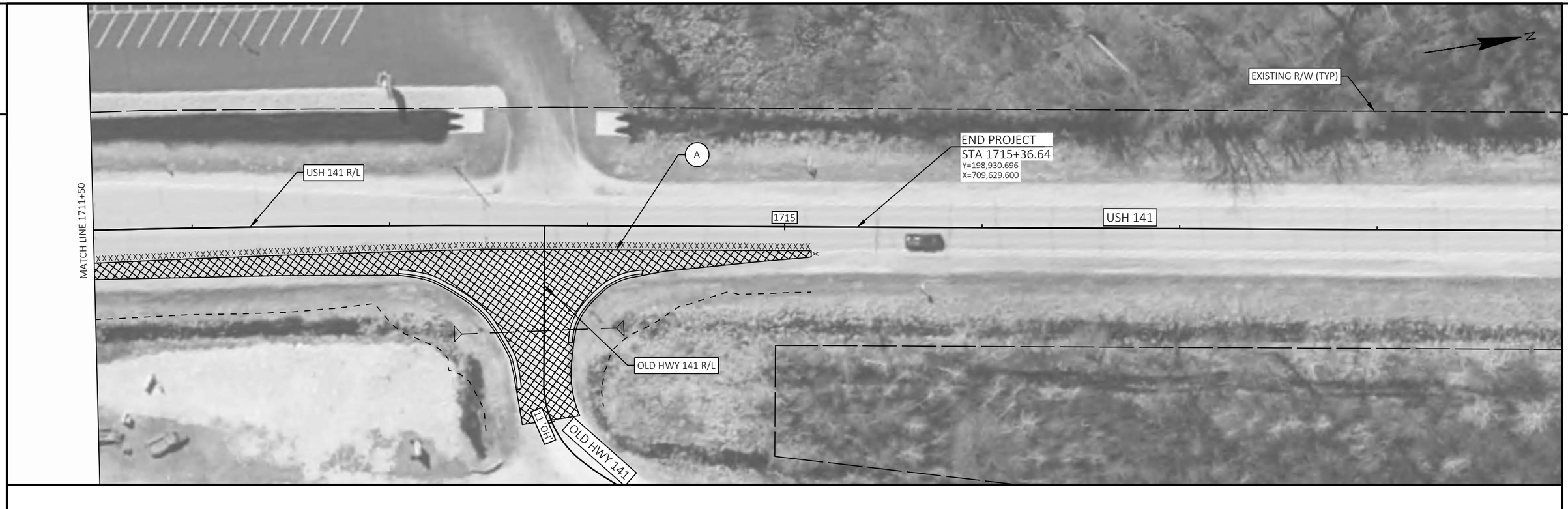
2



LEGEND

- REMOVING SMALL PIPE CULVERTS (INCLUDES ENDWALLS)
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE (PAID FOR AS COMMON EXCAVATION)
- REMOVING CURB
- REMOVING CURB & GUTTER
- REMOVING INLETS
- SS — REMOVING STORM SEWER (INCLUDES ENDWALLS)
- XXXXXXXXXX — SAWCUT LOCATION
- A — ASPHALT SAWING
- C — CONCRETE SAWING
- REMOVING GRAVEL (PAID FOR AS COMMON EXCAVATION)
- INLET ADJUSTMENT RING REPLACEMENT
- SALVAGING ENDWALLS
- REMOVING BUSINESS SIGN
- POTENTIAL PETROLEUM CONTAMINATION (EXCAVATION, HAULING, AND DISPOSAL OF CONTAMINATED SOIL)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	REMOVAL DETAILS	SHEET 23	E

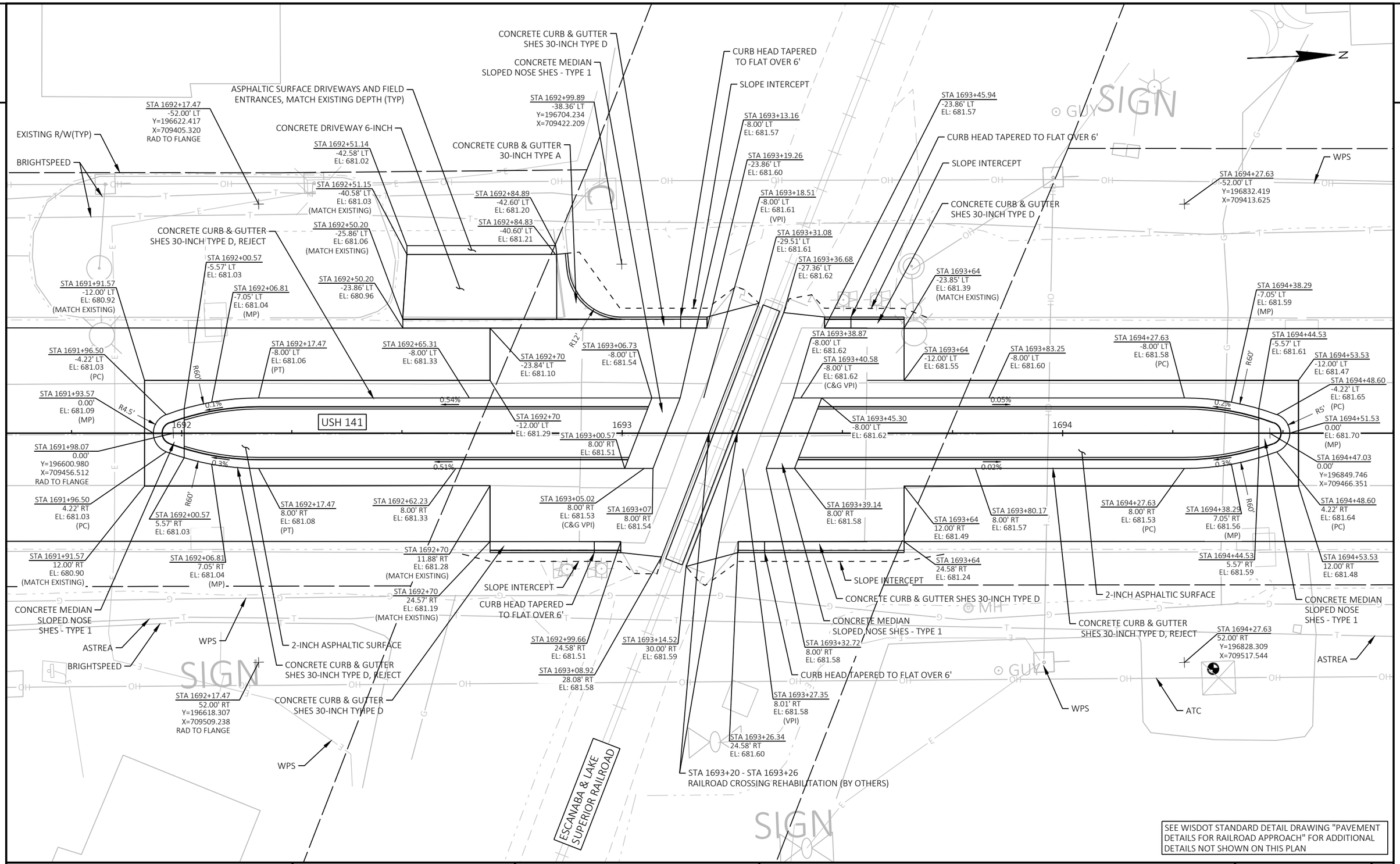


LEGEND

- REMOVING SMALL PIPE CULVERTS (INCLUDES ENDWALLS)
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE (PAID FOR AS COMMON EXCAVATION)
- REMOVING CURB
- REMOVING CURB & GUTTER
- REMOVING INLETS
- REMOVING STORM SEWER (INCLUDES ENDWALLS) (SS)
- XXXXXXXXXX SAWCUT LOCATION
- (A) ASPHALT SAWING
- (C) CONCRETE SAWING
- REMOVING GRAVEL (PAID FOR AS COMMON EXCAVATION)
- INLET ADJUSTMENT RING REPLACEMENT
- SALVAGING ENDWALLS
- REMOVING BUSINESS SIGN
- POTENTIAL PETROLEUM CONTAMINATION (EXCAVATION, HAULING, AND DISPOSAL OF CONTAMINATED SOIL)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	REMOVAL DETAILS	SHEET 24	E

2



PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PLAN DETAILS	SHEET 25	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\021201-PD.DWG
LAYOUT NAME - 021201-pd
PLOT DATE : 10/1/2024 11:02 AM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

2

BEGIN PROJECT
STA 1639+00.00
Y=191,318.658
X=709,495.446

USH 141

1640

USH 141 R/L

EXISTING R/W (TYP)

N

F

MATCH LINE 1644+50

OWL LN

11.0

EROSION CONTROL LEGEND

SLOPE INTERCEPT	SOD EROSION CONTROL	TEMPORARY DITCH CHECK
SILT FENCE	INLET PROTECTION, TYPE C	CULVERT PIPE CHECK
EMAT URBAN CLASS 1, TYPE B	ROCK BAG	SURFACE WATER FLOW

MATCH LINE 1644+50

1645

1650

USH 141

USH 141 R/L

EXISTING R/W (TYP)

MATCH LINE 1652+00

FINELLI AVE

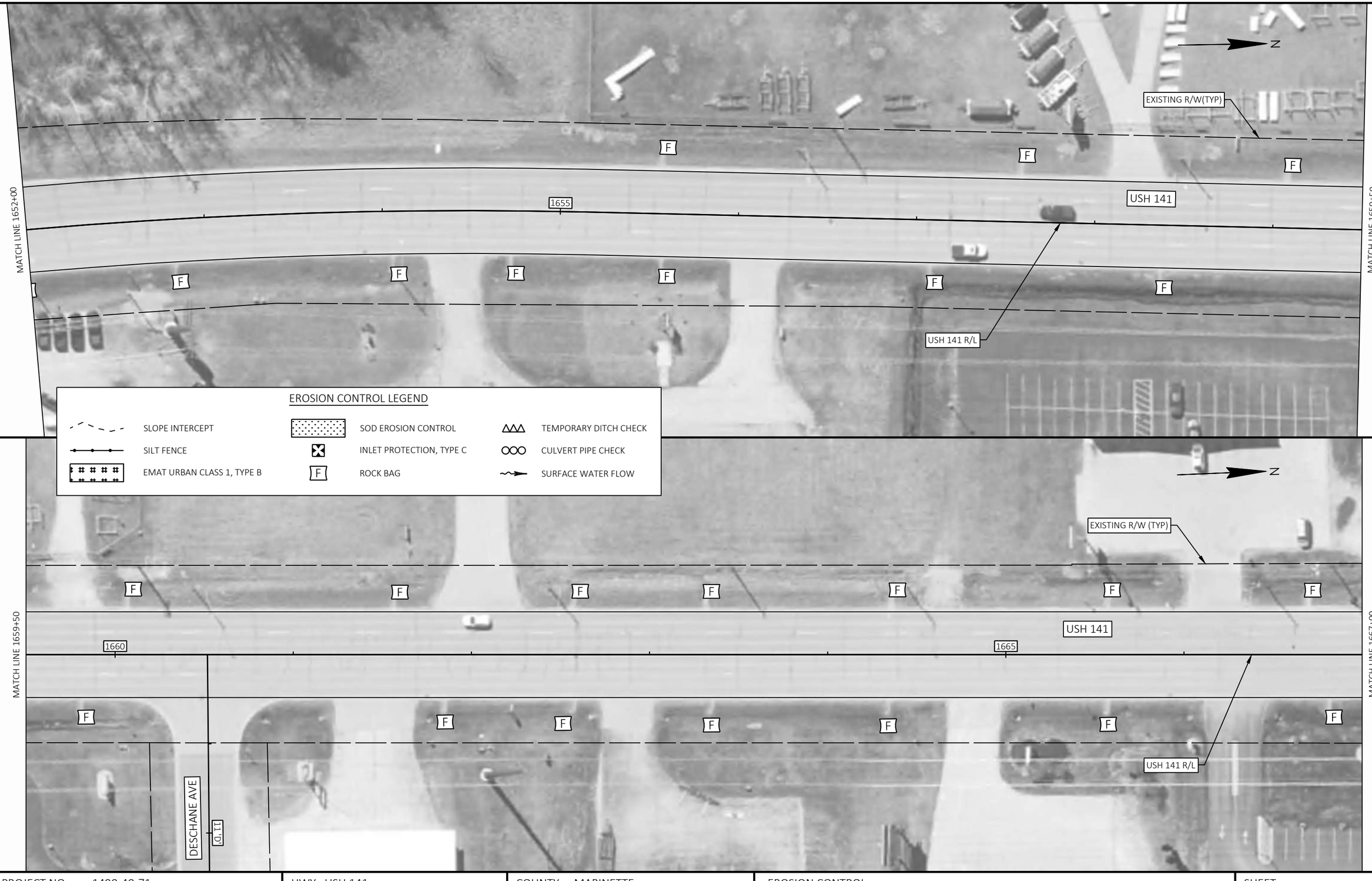
11.F

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	EROSION CONTROL	SHEET 26	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\022001-EC.DWG
LAYOUT NAME - 022001-ec

PLOT DATE : 10/1/2024 11:03 AM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



2

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	EROSION CONTROL	SHEET 27	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\022001-EC.DWG
LAYOUT NAME - 022002-ec

PLOT DATE : 10/1/2024 11:03 AM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

MATCH LINE 1667+00

MATCH LINE 1674+50

ASPHALTIC FLUME RESTORATION (SEE DETAIL)

SOUTH ST

24' S.

ASPHALTIC FLUME RESTORATION (SEE DETAIL)

EXISTING 36-INCH CPRC
(2) EXISTING INLETS
(NO WORK)

N

USH 141

1670

USH 141 R/L

ASPHALTIC FLUME RESTORATION (SEE DETAIL)

ASPHALTIC FLUME RESTORATION (SEE DETAIL)

ASPHALTIC FLUME RESTORATION (SEE DETAIL)

EXISTING R/W (TYP)

29' S.

EROSION CONTROL LEGEND

SLOPE INTERCEPT	SOD EROSION CONTROL	TEMPORARY DITCH CHECK
SILT FENCE	INLET PROTECTION, TYPE C	CULVERT PIPE CHECK
EMAT URBAN CLASS 1, TYPE B	ROCK BAG	SURFACE WATER FLOW

MATCH LINE 1674+50

MATCH LINE 1682+00

ASPHALTIC FLUME RESTORATION (SEE DETAIL)

ASPHALTIC FLUME RESTORATION (SEE DETAIL)

N

EXISTING R/W (TYP)

USH 141

1675

1680

USH 141 R/L

ASPHALTIC FLUME RESTORATION (SEE DETAIL)

WITT ST

23' W.

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	EROSION CONTROL	SHEET 28	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\022001-EC.DWG
LAYOUT NAME - 022003-ec

PLOT DATE : 10/1/2024 11:03 AM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

MATCH LINE 1682+00

MATCH LINE 1689+50

MATCH LINE 1689+50

MATCH LINE 1697+00

EXISTING 36-INCH CPRC
(2) EXISTING INLETS
(NO WORK)

USH 141 R/L

USH 141

1685

PINE AVE

14"P

ASPHALTIC FLUME RESTORATION
(SEE DETAIL)

ASPHALTIC FLUME RESTORATION
(SEE DETAIL)

EXISTING R/W (TYP)

N

F

ASPHALTIC FLUME RESTORATION
(SEE DETAIL)

ASPHALTIC FLUME RESTORATION
(SEE DETAIL)

EROSION CONTROL LEGEND

SLOPE INTERCEPT	SOD EROSION CONTROL	TEMPORARY DITCH CHECK
SILT FENCE	INLET PROTECTION, TYPE C	CULVERT PIPE CHECK
EMAT URBAN CLASS 1, TYPE B	F ROCK BAG	SURFACE WATER FLOW

HALL AVE

24"H

EXISTING INLETS
(NO WORK)

USH 141

1690

1695

EXISTING R/W (TYP)

N

ASPHALTIC FLUME RESTORATION
(SEE DETAIL)

ASPHALTIC FLUME RESTORATION
(SEE DETAIL)

ASPHALTIC FLUME RESTORATION
(SEE DETAIL)

ASPHALTIC FLUME RESTORATION
(SEE DETAIL)

ESCANABA & LAKE
SUPERIOR RAILROAD

USH 141 R/L

ASPHALTIC FLUME RESTORATION
(SEE DETAIL)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	EROSION CONTROL	SHEET 29 E

2

2

ASPHALTIC FLUME RESTORATION (SEE DETAIL)

TLE (TYP)

R/W (TYP)

EXISTING R/W (TYP)

CTH W

59' CW

60' CW

61' CW

1700

MATCH LINE 1697+00

EXISTING INLETS (NO WORK)

USH 141 R/L

ASPHALTIC FLUME RESTORATION (SEE DETAIL)

CTH W R/L

N

ASPHALTIC FLUME RESTORATION (SEE DETAIL)

APRON ENDWALLS FOR CULVERT PIPE SALVAGED 30-INCH
CONCRETE COLLARS FOR PIPE REQ'D
CLEANING CULVERT PIPES
(EXISTING 30-INCH CPRC)

PIPE ARCH CORRUGATED STEEL 42x29-INCH
APRON ENDWALLS FOR PIPE ARCH STEEL 42x29-INCH
CONCRETE COLLARS FOR PIPE REQ'D
CLEANING CULVERT PIPES
(EXISTING 42x29-INCH CPCS)

USH 141

MATCH LINE 1704+50

ASPHALTIC FLUME RESTORATION (SEE DETAIL)

INLET ADJUSTMENT RING REPLACEMENT WITH CULVERT WORK RESTORATION (SEE DETAIL)

INLET ADJUSTMENT RING REPLACEMENT RESTORATION (SEE DETAIL)

EROSION CONTROL LEGEND

SLOPE INTERCEPT	SOD EROSION CONTROL	TEMPORARY DITCH CHECK
SILT FENCE	INLET PROTECTION, TYPE C	CULVERT PIPE CHECK
EMAT URBAN CLASS 1, TYPE B	ROCK BAG	SURFACE WATER FLOW

MIRA AVE

2' NW

EXISTING R/W (TYP)

N

WETLAND BOUNDARY

USH 141

1705

1710

MATCH LINE 1704+50

MATCH LINE 1711+50

USH 141 R/L

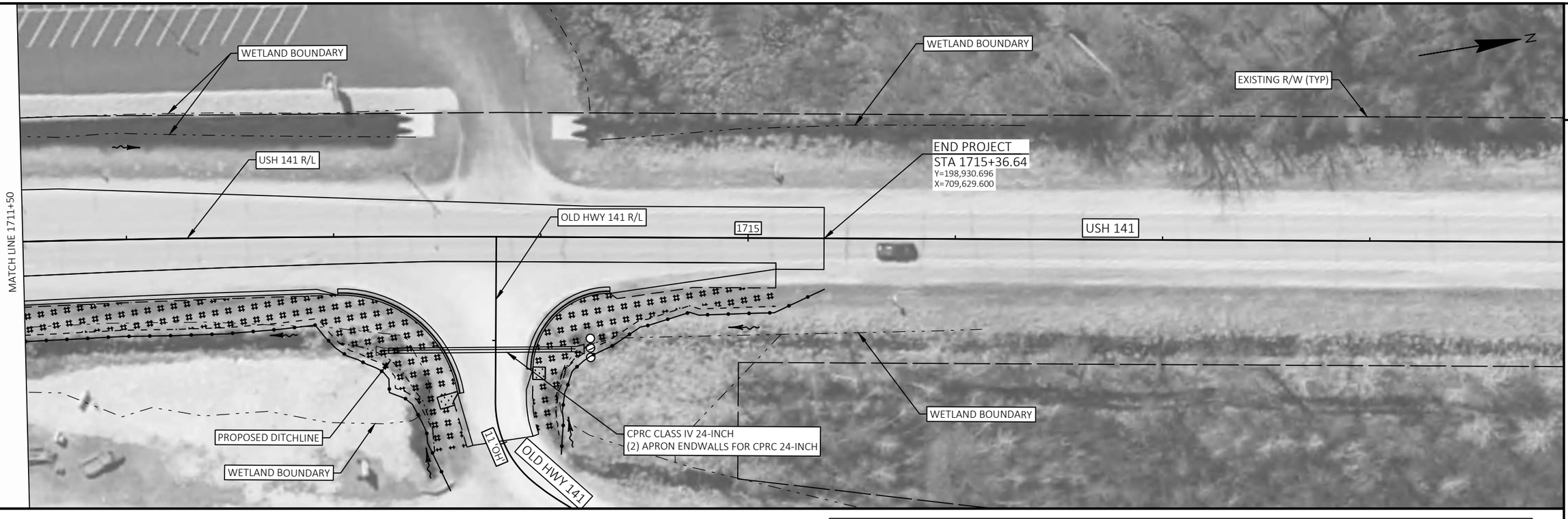
(2) EXISTING 48-INCH CMCP (NO WORK)

WETLAND BOUNDARY

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	EROSION CONTROL	SHEET 30	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\022001-EC.DWG
LAYOUT NAME - 022005-ec

PLOT DATE : 10/1/2024 11:03 AM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT



2

EROSION CONTROL LEGEND

SLOPE INTERCEPT	SOD EROSION CONTROL	TEMPORARY DITCH CHECK
SILT FENCE	INLET PROTECTION, TYPE C	CULVERT PIPE CHECK
EMAT URBAN CLASS 1, TYPE B	ROCK BAG	SURFACE WATER FLOW

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	EROSION CONTROL	SHEET 31	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\022001-EC.DWG
LAYOUT NAME - 022006-ec
PLOT DATE : 10/1/2024 11:03 AM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

APPROXIMATE LOCATION STA 1637+00

SPEED LIMIT 55
R2-1
24"X30"
1

USH 141

1640

MATCH LINE 1644+50

OWL LN

2
SPEED LIMIT 35
R2-1
36"X48"

3
SPEED LIMIT 45
R2-1
REMOVE

APPROXIMATE LOCATION STA 1637+00

4
SPEED LIMIT 45
W3-5
REMOVE

5
SPEED LIMIT 35
W3-5
36"X36"

APPROXIMATE LOCATION 700' SOUTH OF R2-1

6
STOP
R1-1
30"X30"

7
Crivitz
POPULATION 1093
I2-3
60"X24"

ENGINE BRAKE MUFFLERS REQUIRED
R10-64
VILLAGE OWNED

8
CENTER LANE ONLY
R3-9B
24"X36"

9
SPEED LIMIT 35
R2-1
REMOVE

LEGEND - PERMANENT SIGNING

(#) SIGN - NEW LOCATION

(#) SIGN - REMOVE/REPLACE

[#] SIGN - REMOVE

NOTES

1. POST LENGTHS SHOWN IN MISCELLANEOUS QUANTITIES TABLES ARE ESTIMATES. CONTRACTOR RESPONSIBLE FOR INSTALLING CORRECT POST LENGTH FOR SIGN MOUNTING HEIGHT AND EMBEDMENT.
2. SIGNS MOUNTED ON THE SAME POSTS WILL BE PAID AS ONE (1) SIGN REMOVAL.
3. SIGNS NOTED AS VILLAGE OWNED OR NOT SHOWN ON THE PLAN ARE THE PROPERTY OF THE VILLAGE OF CRIVITZ. CONTACT THE VILLAGE PUBLIC WORKS DEPARTMENT FOR REMOVAL PER SPECIAL PROVISIONS.

W4-2R
REMOVE
10

SPEED LIMIT 45
R2-1
REMOVE
12

SPEED LIMIT 35
R2-1
24"X30"
13

CENTER LANE ONLY
R3-9B
24"X36"
14

MATCH LINE 1644+50

1645

USH 141

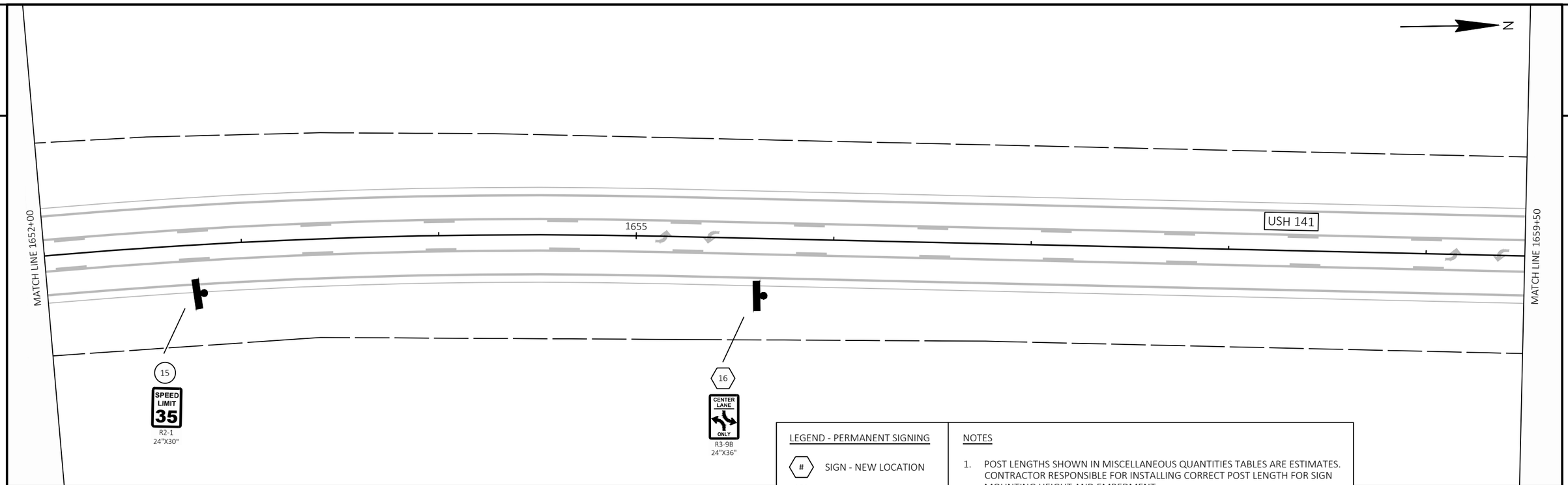
1650

MATCH LINE 1652+00

11
STOP
R1-1
30"X30"

FINELLI AVE

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PERMANENT SIGNING	SHEET 32	E



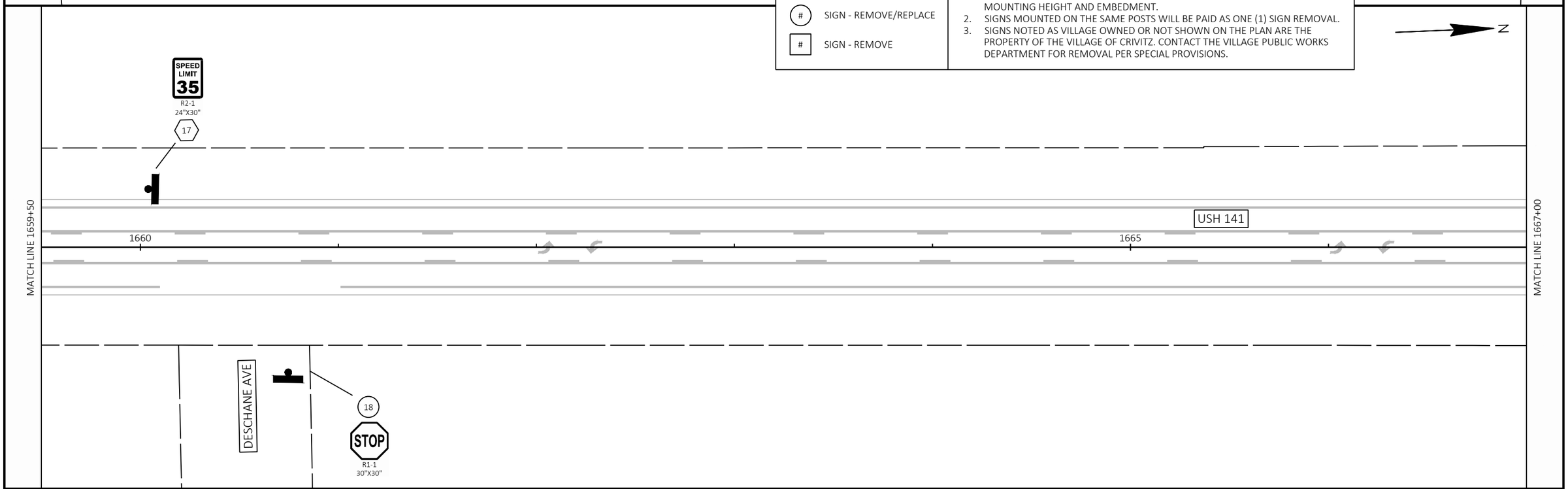
2

LEGEND - PERMANENT SIGNING

- (#) SIGN - NEW LOCATION
- (#) SIGN - REMOVE/REPLACE
- [#] SIGN - REMOVE

NOTES

1. POST LENGTHS SHOWN IN MISCELLANEOUS QUANTITIES TABLES ARE ESTIMATES. CONTRACTOR RESPONSIBLE FOR INSTALLING CORRECT POST LENGTH FOR SIGN MOUNTING HEIGHT AND EMBEDMENT.
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PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PERMANENT SIGNING	SHEET 33	E

2

N

MATCH LINE 1667+00

CENTER LANE ONLY
R3-9B
24"X36"
19

SPEED LIMIT 35
R2-1
24"X30"
NO PARKING ANY TIME
R7-1D
VILLAGE OWNED
20

STOP
R1-1
30"X30"
21

SOUTH ST

ONLY
R3-8LF
36"X30"
21A

USH 141

1670

MATCH LINE 1674+50

19A
ONLY
R3-8LF
36"X30"

22
STOP
R1-1
30"X30"

23
SPEED LIMIT 35
R2-1
24"X30"
NO PARKING ANY TIME
R7-1D
VILLAGE OWNED

24
CENTER LANE ONLY
R3-9B
24"X36"

LEGEND - PERMANENT SIGNING

- (#) SIGN - NEW LOCATION
- (#) SIGN - REMOVE/REPLACE
- [#] SIGN - REMOVE

NOTES

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N

MATCH LINE 1674+50

SPEED LIMIT 35
R2-1
REMOVE
25

NO PARKING ANY TIME
R7-1D
VILLAGE OWNED

SOUTH 141
J4-1
REMOVE
27

NO PARKING ANY TIME
R7-1D
VILLAGE OWNED

USH 141

1675

1680

MATCH LINE 1682+00

WITT ST

26
STOP
R1-1
30"X30"

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PERMANENT SIGNING	SHEET 34	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\023201-PS.DWG
LAYOUT NAME - 024503-ps
PLOT DATE : 10/1/2024 11:07 AM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

MATCH LINE 1682+00

MATCH LINE 1689+50

MATCH LINE 1689+50

MATCH LINE 1697+00

PINE AVE

HALL AVE

USH 141

1685

1690

1695

ESCANABA & LAKE SUPERIOR RAILROAD

N

N

N

28 — SPEED LIMIT 35, R2-1, 24"X30"

28 — NO PARKING ANY TIME, R7-1D, VILLAGE OWNED

29 — STOP, R1-1, 30"X30"

30 — SPEED LIMIT 35, R2-1, 24"X30"

31 — STOP SCHOOL BUS FLASHING RED LIGHTS, R59-51, 36"X36"

31 — NO PARKING ANY TIME, R7-1D, VILLAGE OWNED

32 — JCT COUNTY A / JCT COUNTY W, J1-2, 48"X39"

33 — STOP, R1-1, 30"X30"

34 — R R, W10-1, 36"X36"

35 — EXEMPT, W10-1A, 24"X12"

36 — SPEED LIMIT 35, R2-1, 24"X30"

36 — NO PARKING ANY TIME, R7-1D, VILLAGE OWNED

37 — R4-7, 24"X30"

38 — Business Dist / Lake Noquebay County Park, D1-2, 90"X36"

39 — R4-7, 24"X30"

40 — W3-3, 36"X36"

41 — W3-3, REMOVE

41 — NO PARKING ANY TIME, R7-1D, VILLAGE OWNED

42 — R R, W10-1, 36"X36"

43 — EXEMPT, W10-1A, 24"X12"

LEGEND - PERMANENT SIGNING

- (#) SIGN - NEW LOCATION
- (#) SIGN - REMOVE/REPLACE
- [#] SIGN - REMOVE

NOTES

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PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PERMANENT SIGNING	SHEET 35	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\023201-PS.DWG
LAYOUT NAME - 024504-ps
PLOT DATE : 10/1/2024 11:07 AM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

MATCH LINE 1697+00

MATCH LINE 1704+50

MATCH LINE 1704+50

MATCH LINE 1711+50

N

CTH W

USH 141

1700

1705

1710

MIRA AVE

R3-9B 24"X36"

R7-1D VILLAGE OWNED

R2-1 24"X30"

J4-1 24"X36"

J2-1 REMOVE

J13-1 24"X45"

R1-1F 30"X30"

R3-8ER 36"X30"

J13-2 48"X45"

R3-8LF 36"X30"

W9-1R REMOVE

W3-3 36"X36"

R1-1 30"X30"

R2-1 REMOVE

R2-1 24"X30"

D1-1 84"X60"

Gov Thompson State Park

Gov Earl Peshtigo River State Park

D1-2 90"X36"

Lake Noquebay County Park

Business Dist

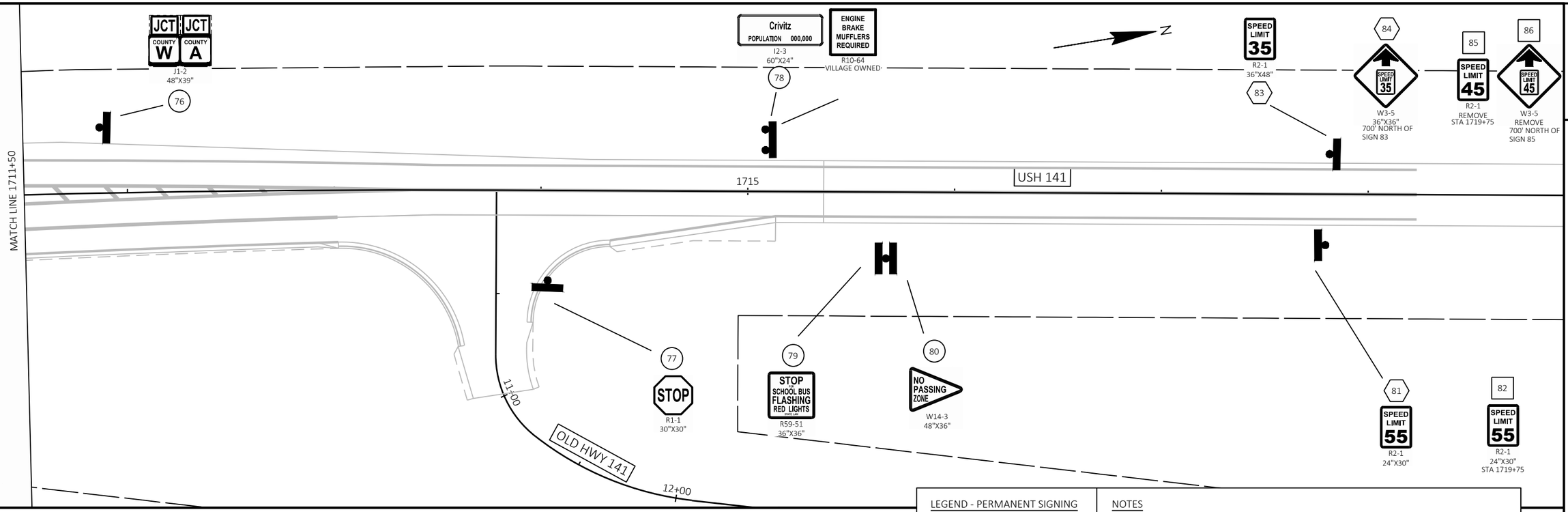
44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75

LEGEND - PERMANENT SIGNING	
#	SIGN - NEW LOCATION
#	SIGN - REMOVE/REPLACE
#	SIGN - REMOVE

NOTES

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PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PERMANENT SIGNING	SHEET 36	E



LEGEND - PERMANENT SIGNING

- (#) SIGN - NEW LOCATION
- (#) SIGN - REMOVE/REPLACE
- [#] SIGN - REMOVE

NOTES

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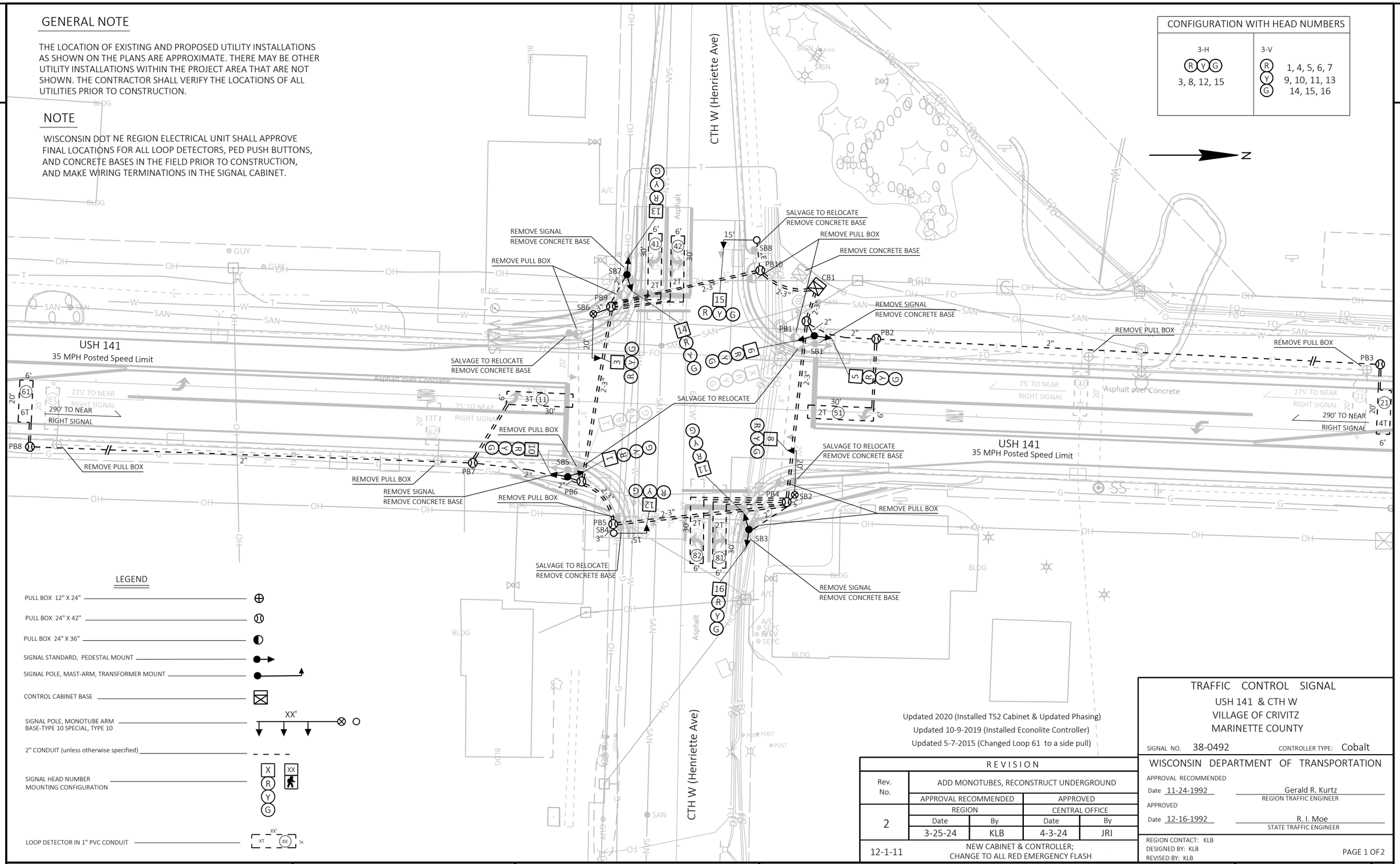
GENERAL NOTE

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

NOTE

WISCONSIN DOT NE REGION ELECTRICAL UNIT SHALL APPROVE FINAL LOCATIONS FOR ALL LOOP DETECTORS, PED PUSH BUTTONS, AND CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION, AND MAKE WIRING TERMINATIONS IN THE SIGNAL CABINET.

CONFIGURATION WITH HEAD NUMBERS	
3-H R Y G 3, 8, 12, 15	3-V R Y G 1, 4, 5, 6, 7 9, 10, 11, 13 14, 15, 16



LEGEND

- PULL BOX 12" X 24"
- PULL BOX 24" X 42"
- PULL BOX 24" X 36"
- SIGNAL STANDARD, PEDESTAL MOUNT
- SIGNAL POLE, MAST-ARM, TRANSFORMER MOUNT
- CONTROL CABINET BASE
- SIGNAL POLE, MONOTUBE ARM BASE-TYPE 10 SPECIAL, TYPE 10
- 2" CONDUIT (unless otherwise specified)
- SIGNAL HEAD NUMBER MOUNTING CONFIGURATION
- LOOP DETECTOR IN 1" PVC CONDUIT

Updated 2020 (Installed TS2 Cabinet & Updated Phasing)
Updated 10-9-2019 (Installed Econolite Controller)
Updated 5-7-2015 (Changed Loop 61 to a side pull)

REVISION				
Rev. No.	ADD MONOTUBES, RECONSTRUCT UNDERGROUND			
	APPROVAL RECOMMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
	Date	By	Date	By
2	3-25-24	KLB	4-3-24	JRI
12-1-11	NEW CABINET & CONTROLLER; CHANGE TO ALL RED EMERGENCY FLASH			

TRAFFIC CONTROL SIGNAL
USH 141 & CTH W
VILLAGE OF CRIVITZ
MARINETTE COUNTY

SIGNAL NO. 38-0492 CONTROLLER TYPE: Cobalt

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 11-24-1992 Gerald R. Kurtz, REGION TRAFFIC ENGINEER

APPROVED
Date 12-16-1992 R. I. Moe, STATE TRAFFIC ENGINEER

REGION CONTACT: KLB
DESIGNED BY: KLB
REVISED BY: KLB

PAGE 1 OF 2

PROJECT NO: 1490-40-00	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL SIGNAL - S38-0492 - TEMPORARY SIGNAL	SHEET 38	E

FILE NAME : F:\D3_TRAFFI\S38-0492 (141 & A-W)\S38-0492 TEMP.DWG
LAYOUT NAME - S38-0492-tcs TEMP
PLOT DATE : 1/23/2025 2:56 PM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

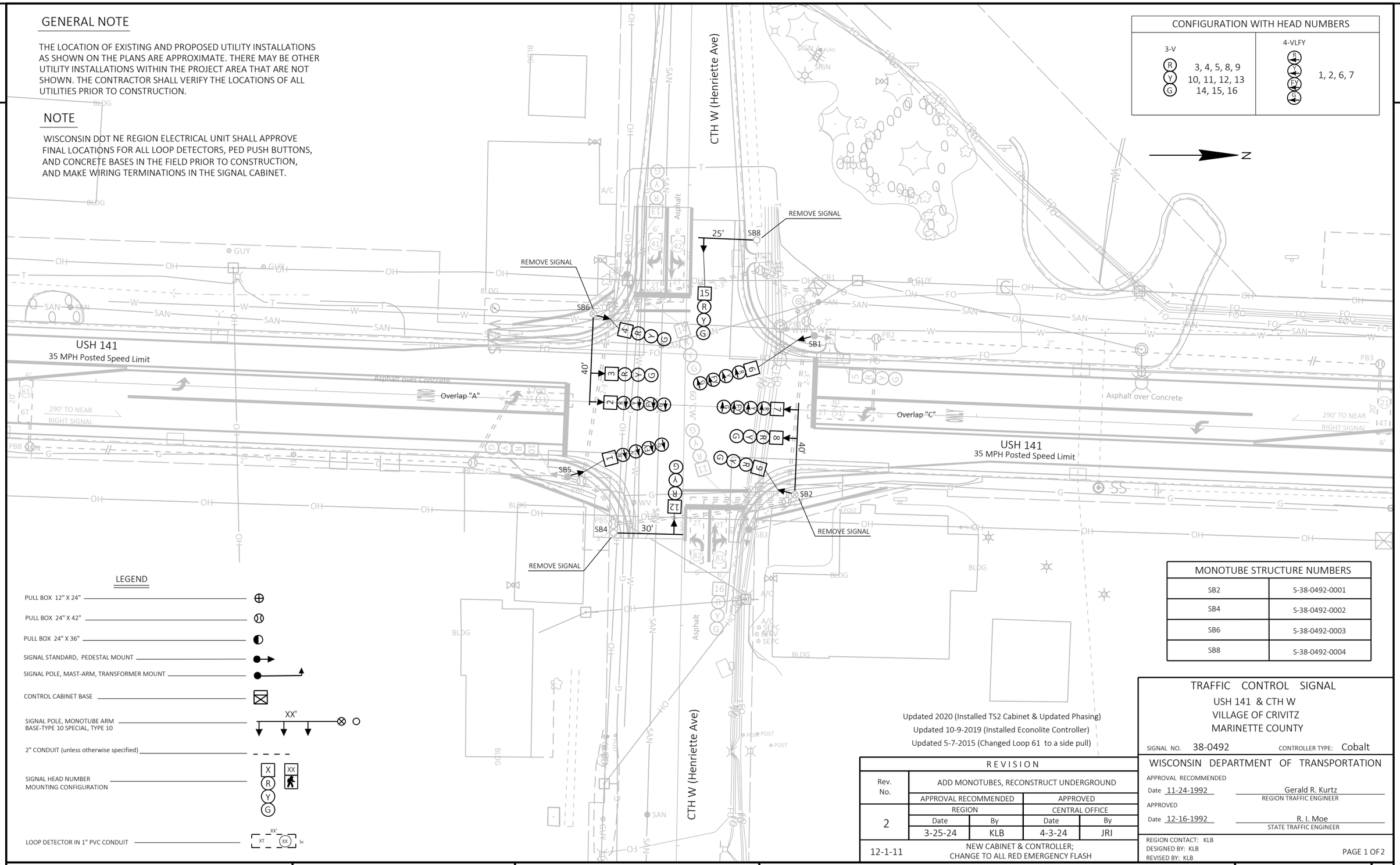
GENERAL NOTE

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NOTE

WISCONSIN DOT NE REGION ELECTRICAL UNIT SHALL APPROVE FINAL LOCATIONS FOR ALL LOOP DETECTORS, PED PUSH BUTTONS, AND CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION, AND MAKE WIRING TERMINATIONS IN THE SIGNAL CABINET.

CONFIGURATION WITH HEAD NUMBERS	
3-V	3, 4, 5, 8, 9 10, 11, 12, 13 14, 15, 16
4-VLFY	1, 2, 6, 7



LEGEND

- PULL BOX 12" X 24"
- PULL BOX 24" X 42"
- PULL BOX 24" X 36"
- SIGNAL STANDARD, PEDESTAL MOUNT
- SIGNAL POLE, MAST-ARM, TRANSFORMER MOUNT
- CONTROL CABINET BASE
- SIGNAL POLE, MONOTUBE ARM BASE-TYPE 10 SPECIAL, TYPE 10 — XX'
- 2" CONDUIT (unless otherwise specified)
- SIGNAL HEAD NUMBER MOUNTING CONFIGURATION — X, XX, R, Y, G
- LOOP DETECTOR IN 1" PVC CONDUIT — XX', XT, XX

MONOTUBE STRUCTURE NUMBERS	
SB2	S-38-0492-0001
SB4	S-38-0492-0002
SB6	S-38-0492-0003
SB8	S-38-0492-0004

Updated 2020 (Installed TS2 Cabinet & Updated Phasing)
Updated 10-9-2019 (Installed Econolite Controller)
Updated 5-7-2015 (Changed Loop 61 to a side pull)

REVISION				
Rev. No.	ADD MONOTUBES, RECONSTRUCT UNDERGROUND			
	APPROVAL RECOMMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
2	Date	By	Date	By
	3-25-24	KLB	4-3-24	JRI
12-1-11	NEW CABINET & CONTROLLER; CHANGE TO ALL RED EMERGENCY FLASH			

TRAFFIC CONTROL SIGNAL
USH 141 & CTH W
VILLAGE OF CRIVITZ
MARINETTE COUNTY

SIGNAL NO. 38-0492 CONTROLLER TYPE: Cobalt

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 11-24-1992 — Gerald R. Kurtz, REGION TRAFFIC ENGINEER

APPROVED
Date 12-16-1992 — R. I. Moe, STATE TRAFFIC ENGINEER

REGION CONTACT: KLB
DESIGNED BY: KLB
REVISED BY: KLB

PAGE 1 OF 2

PROJECT NO: 1490-40-00	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL SIGNAL - S38-0492 - FUTURE SIGNAL	SHEET 39	E

FILE NAME : F:\D3_TRAFFI\S38-0492 (141 & A-W)\S38-0492 FUTURE.DWG
LAYOUT NAME - S38-0492-tcs FUTURE
PLOT DATE : 1/23/2025 3:00 PM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

END PROJECT
STA 1639+00.00
Y=191,318.658
X=709,495.446

USH 141

1640

12'
12'

EXISTING R/W (TYP)

N

USH 141 R/L

+60.02

12'
16'
12'

MATCH LINE 1644+50

OWL LN

TYP.

LEGEND

A	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)	H	MARKING WORD EPOXY (WHITE)
B	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)	I	MARKING RAILROAD CROSSING EPOXY (WHITE)
C	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)	J	MARKING STOP LINE EPOXY 18-INCH (WHITE)
D	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW, 12.5' LINE, 37.5' SKIP)	K	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
E	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE, 3' LINE, 9' SKIP)	L	MARKING CURB EPOXY (YELLOW)
F	MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)	M	MARKING ISLAND NOSE EPOXY (YELLOW)
G	MARKING ARROW EPOXY (WHITE)	N	MARKING ISLAND GROOVED WET REF EPOXY 10-INCH (DASHED WHITE 3' LINE, 9' SKIP)

MATCH LINE 1644+50

1645

12'
16'
12'

+84.21

+24.92

FINELLI AVE

N

EXISTING R/W (TYP)

USH 141

1650

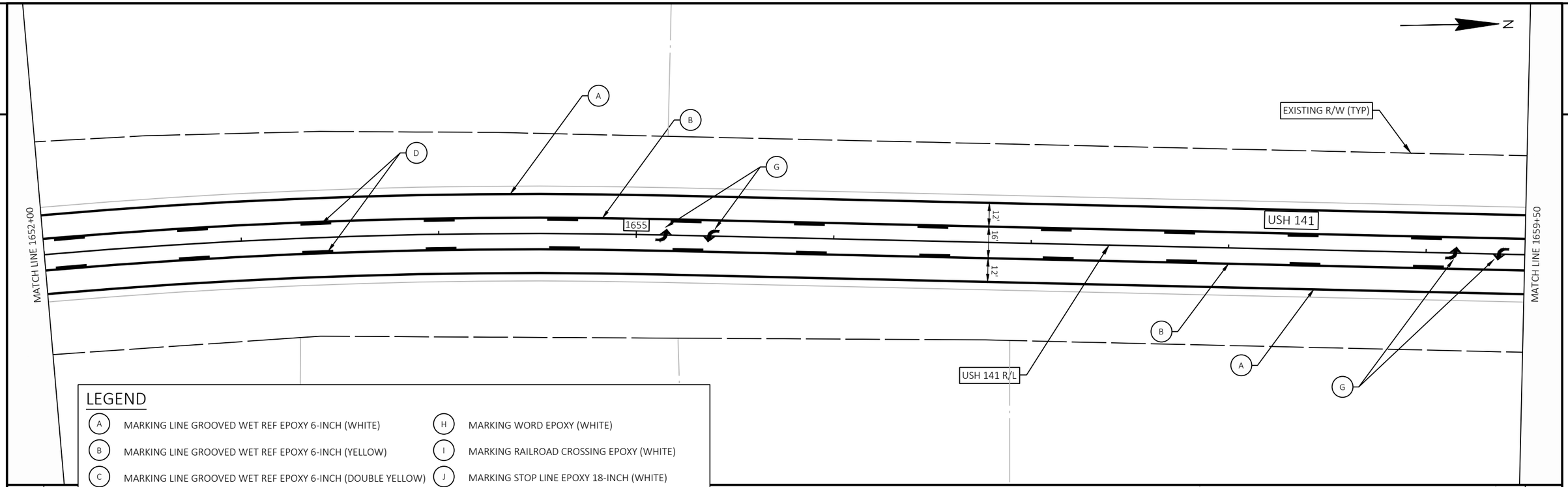
USH 141 R/L

MATCH LINE 1652+00

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PAVEMENT MARKING	SHEET 40	E

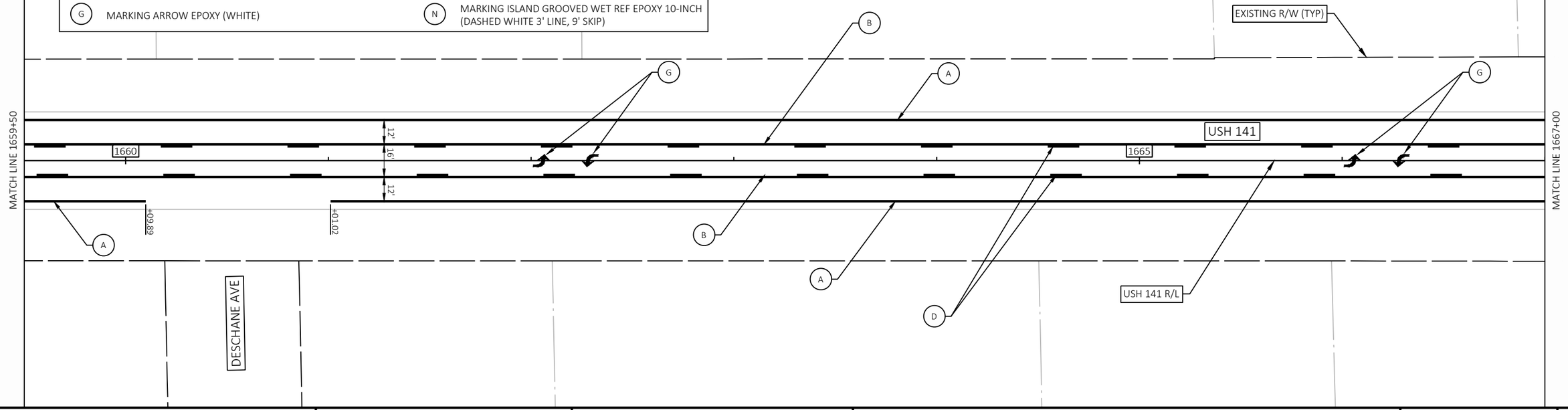
FILE NAME : N:\PDS\C3D\14904000\SHEETS\024501-PM.DWG
LAYOUT NAME - 024501-pm
PLOT DATE : 10/1/2024 11:22 AM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2



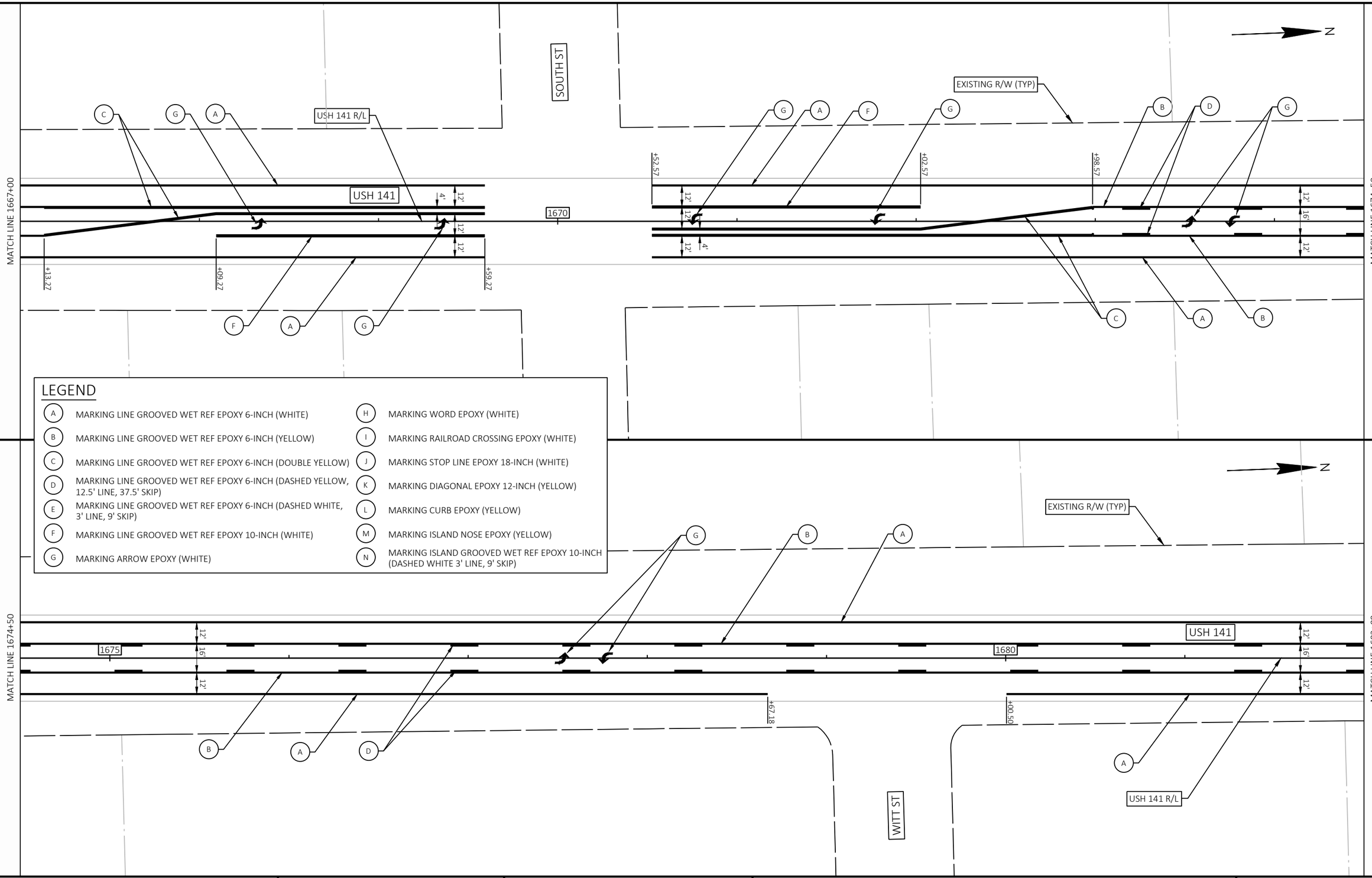
LEGEND

- (A) MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
- (B) MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
- (C) MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)
- (D) MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW, 12.5' LINE, 37.5' SKIP)
- (E) MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE, 3' LINE, 9' SKIP)
- (F) MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
- (G) MARKING ARROW EPOXY (WHITE)
- (H) MARKING WORD EPOXY (WHITE)
- (I) MARKING RAILROAD CROSSING EPOXY (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (L) MARKING CURB EPOXY (YELLOW)
- (M) MARKING ISLAND NOSE EPOXY (YELLOW)
- (N) MARKING ISLAND GROOVED WET REF EPOXY 10-INCH (DASHED WHITE 3' LINE, 9' SKIP)



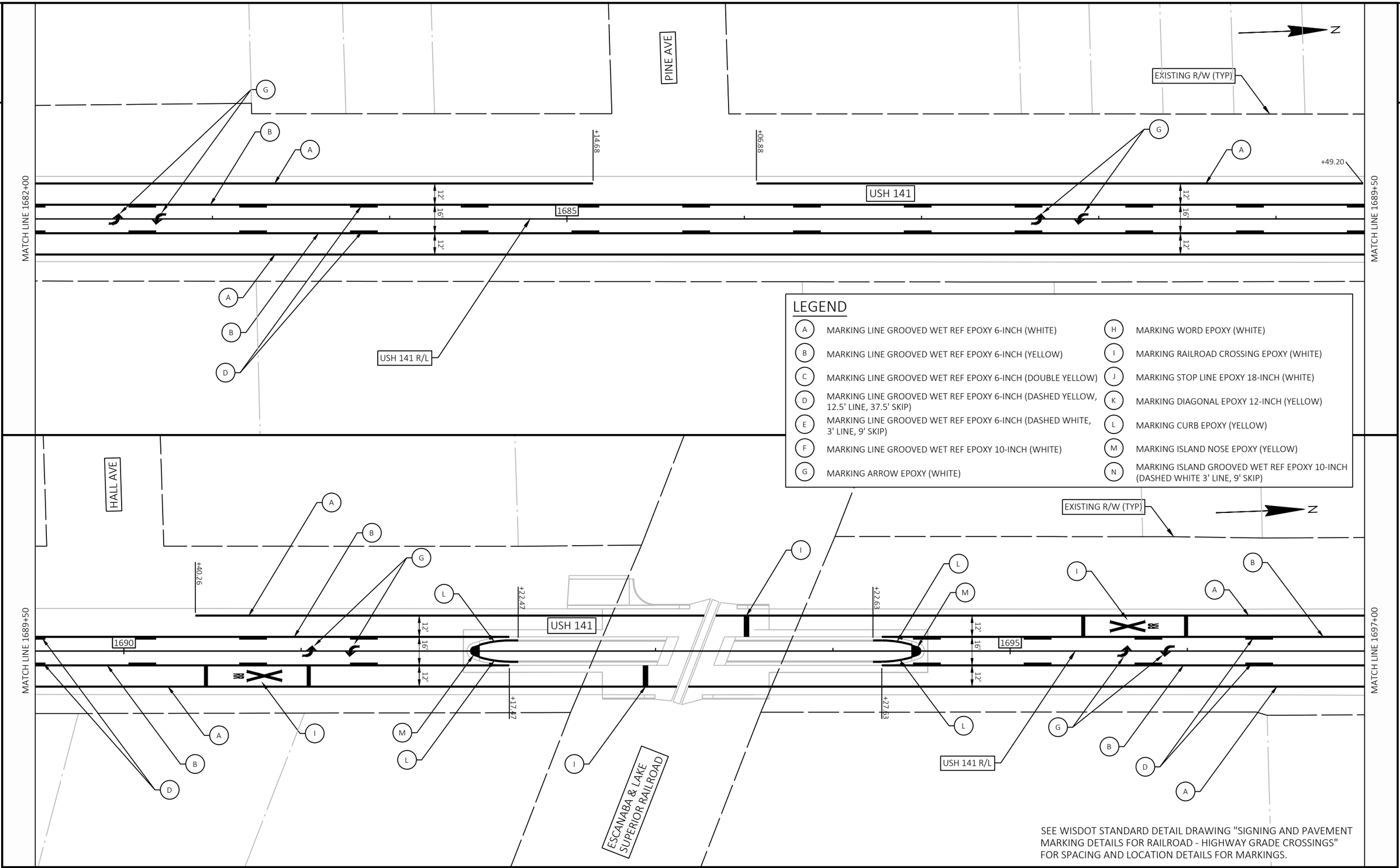
2

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PAVEMENT MARKING	SHEET 41	E



LEGEND

A	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)	H	MARKING WORD EPOXY (WHITE)
B	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)	I	MARKING RAILROAD CROSSING EPOXY (WHITE)
C	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)	J	MARKING STOP LINE EPOXY 18-INCH (WHITE)
D	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW, 12.5' LINE, 37.5' SKIP)	K	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
E	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE, 3' LINE, 9' SKIP)	L	MARKING CURB EPOXY (YELLOW)
F	MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)	M	MARKING ISLAND NOSE EPOXY (YELLOW)
G	MARKING ARROW EPOXY (WHITE)	N	MARKING ISLAND GROOVED WET REF EPOXY 10-INCH (DASHED WHITE 3' LINE, 9' SKIP)



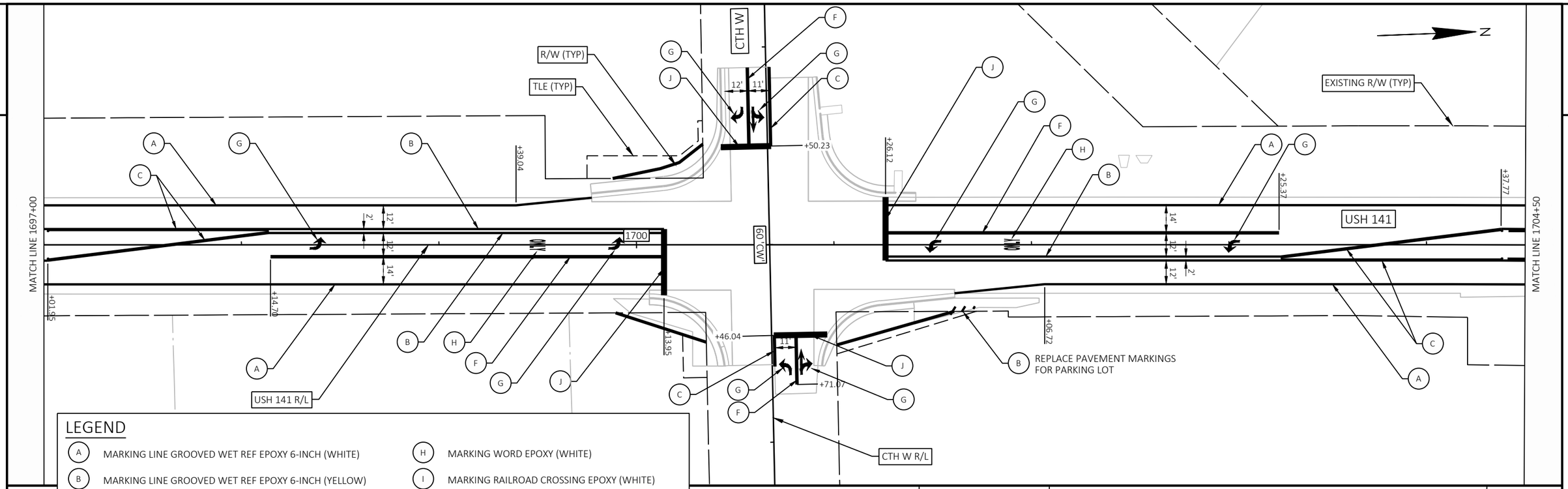
LEGEND

- A — MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
- B — MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
- C — MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)
- D — MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW, 12.5' LINE, 37.5' SKIP)
- E — MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE, 3' LINE, 9' SKIP)
- F — MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
- G — MARKING ARROW EPOXY (WHITE)
- H — MARKING WORD EPOXY (WHITE)
- I — MARKING RAILROAD CROSSING EPOXY (WHITE)
- J — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- K — MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- L — MARKING CURB EPOXY (YELLOW)
- M — MARKING ISLAND NOSE EPOXY (YELLOW)
- N — MARKING ISLAND GROOVED WET REF EPOXY 10-INCH (DASHED WHITE 3' LINE, 9' SKIP)

SEE WISDOT STANDARD DETAIL DRAWING "SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS" FOR SPACING AND LOCATION DETAILS FOR MARKINGS.

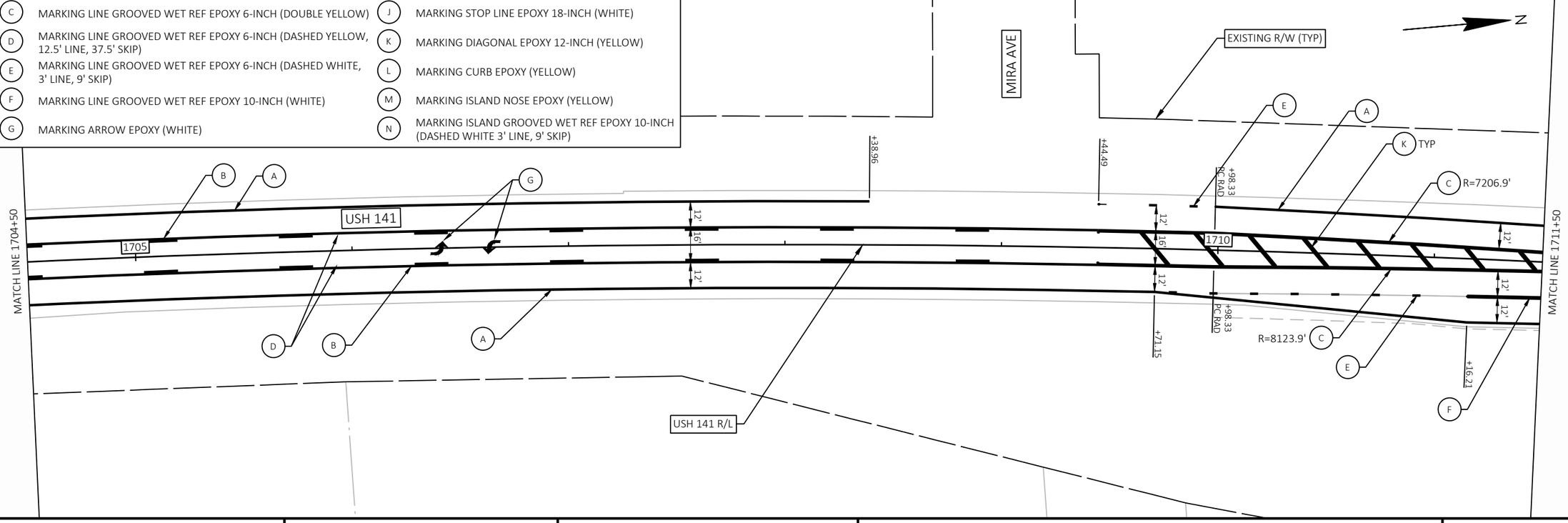
PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PAVEMENT MARKING	SHEET 43	E

2



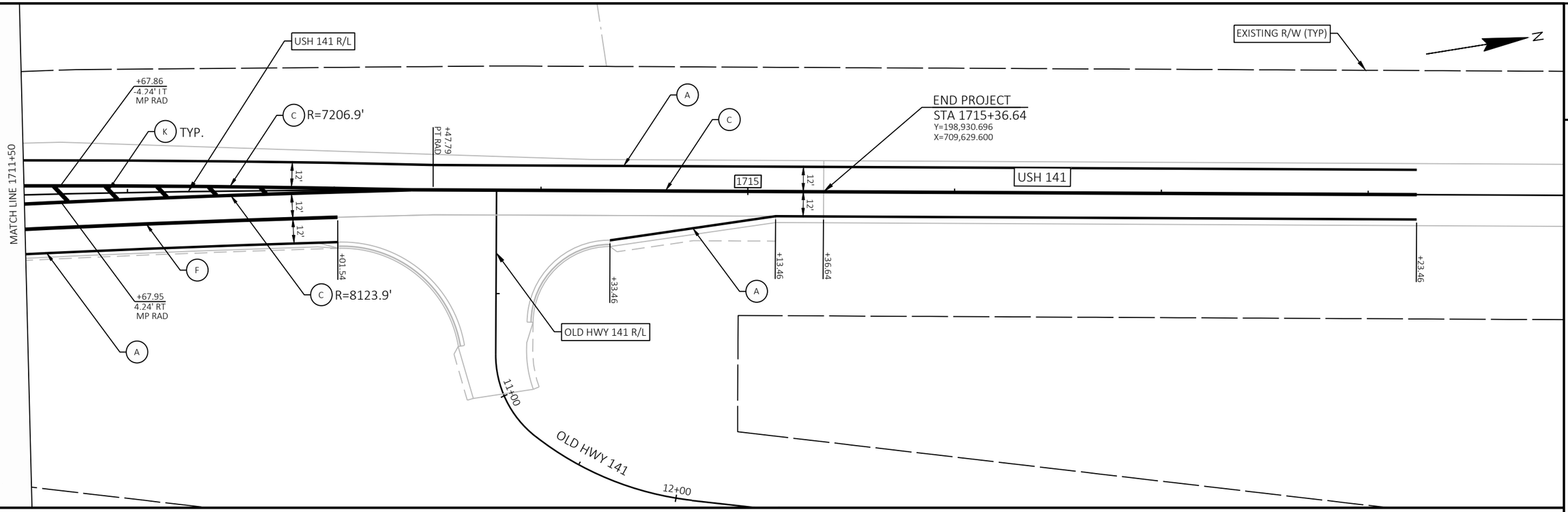
LEGEND

- A — MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
- B — MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
- C — MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)
- D — MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW, 12.5' LINE, 37.5' SKIP)
- E — MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE, 3' LINE, 9' SKIP)
- F — MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
- G — MARKING ARROW EPOXY (WHITE)
- H — MARKING WORD EPOXY (WHITE)
- I — MARKING RAILROAD CROSSING EPOXY (WHITE)
- J — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- K — MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- L — MARKING CURB EPOXY (YELLOW)
- M — MARKING ISLAND NOSE EPOXY (YELLOW)
- N — MARKING ISLAND GROOVED WET REF EPOXY 10-INCH (DASHED WHITE 3' LINE, 9' SKIP)



PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PAVEMENT MARKING	SHEET 44	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\024501-PM.DWG
LAYOUT NAME - 024505-pm
PLOT DATE : 10/1/2024 11:22 AM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44



LEGEND

A	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)	H	MARKING WORD EPOXY (WHITE)
B	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)	I	MARKING RAILROAD CROSSING EPOXY (WHITE)
C	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)	J	MARKING STOP LINE EPOXY 18-INCH (WHITE)
D	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW, 12.5' LINE, 37.5' SKIP)	K	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
E	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE, 3' LINE, 9' SKIP)	L	MARKING CURB EPOXY (YELLOW)
F	MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)	M	MARKING ISLAND NOSE EPOXY (YELLOW)
G	MARKING ARROW EPOXY (WHITE)	N	MARKING ISLAND GROOVED WET REF EPOXY 10-INCH (DASHED WHITE 3' LINE, 9' SKIP)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PAVEMENT MARKING	SHEET 45	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\024501-PM.DWG
LAYOUT NAME - 024506-pm

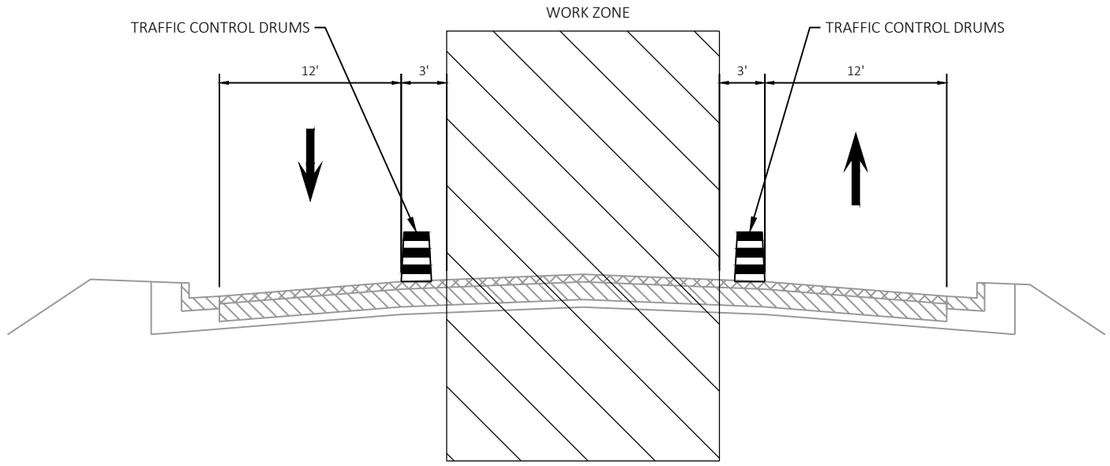
PLOT DATE : 10/1/2024 11:22 AM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

STAGE 1

TRAFFIC
USH 141 SHALL BE REDUCED TO 1-LANE IN EACH DIRECTION CLOSING THE INSIDE LANES. LEFT TURN STORAGE AREAS SHALL BE PROVIDED AT ALL SIDE ROADS, EXCEPT AT CTH W WHERE LEFT TURNS SHALL BE RESTRICTED TO AND FROM CTH W.

CONSTRUCTION
INSTALL NEW LOOP DETECTOR IN ACCORDANCE WITH THE TEMPORARY SIGNAL PLAN FOR NORTHBOUND LEFT TURN LANE AND SOUTHBOUND LEFT TURN LANE AT CTH W FOLLOWING WISDOT STANDARD DETAIL DRAWING "LOOP DETECTOR INSTALLED IN EXISTING CONCRETE PAVEMENT WITH NEW ASPHALTIC OVERLAY".

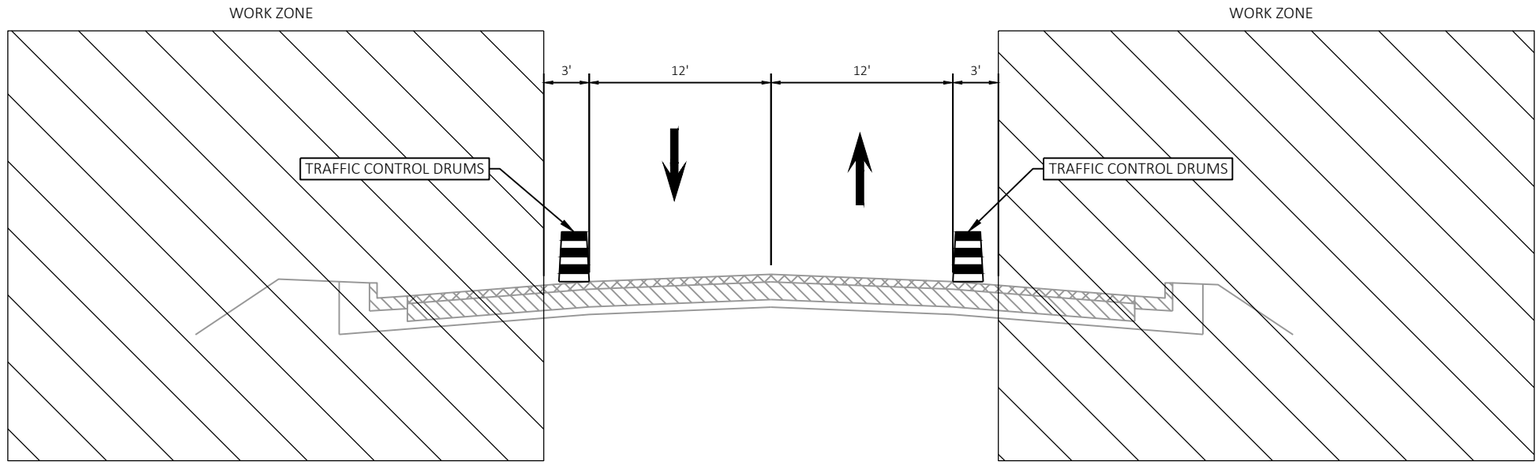


TRAFFIC CONTROL TYPICAL SECTION USH 141
STAGE 1

STAGE 2

TRAFFIC
USH 141 SHALL BE REDUCED TO 1-LANE IN EACH DIRECTION CLOSING THE OUTSIDE LANES. TEMPORARY LANE CLOSURES ON CTH W AT USH 141 ARE PERMITTED AND SHALL FOLLOW WISDOT STANDARD DETAIL DRAWING "TRAFFIC CONTROL ADDED LANE CLOSURE WITHOUT LANE SHIFT". TEMPORARY USE OF FLAGGERS ON USH 141 AND/OR CTH W IS PERMITTED AND SHALL FOLLOW WISDOT STANDARD DETAIL DRAWING "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION". TRAFFIC SIGNALS AT USH 141 AND CTH W ARE PERMITTED TO BE DARK WITH TEMPORARY ALL-WAY STOP CONDITIONS FOR TRAFFIC FOR A 5-HOUR PERIOD.

CONSTRUCTION
INSTALL TEMPORARY TRAFFIC SIGNAL ITEMS AT THE USH 141 AND CTH W INTERSECTION (INCLUDING NEW SIGNAL CABINET, BASES, PULL BOXES, AND CONDUIT) WHILE KEEPING THE EXISTING TRAFFIC SIGNAL OPERATIONAL. THE SOUTHERN MOST AND NORTHERN MOST LOOP DETECTORS SHALL NOT BE INSTALLED DURING THIS STAGE. CONSTRUCT NEW ASPHALTIC FLUMES, INLET ADJUSTMENT RING REPLACEMENTS AND CULVERT WORK.



TRAFFIC CONTROL TYPICAL SECTION USH 141
STAGE 2

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - TYPICAL SECTIONS	SHEET 46	E

2

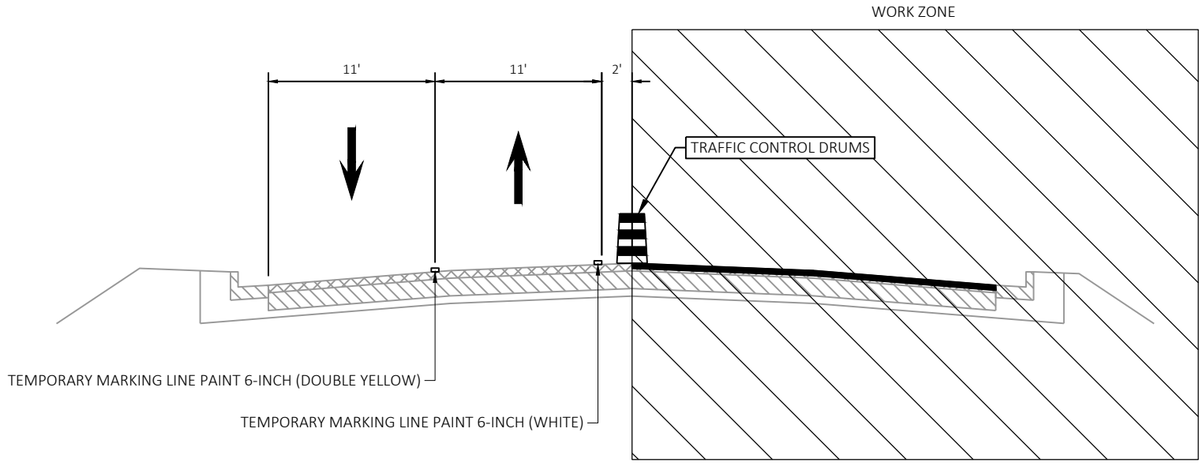
STAGE 3

TRAFFIC
USH 141 SHALL BE REDUCED TO 1-LANE IN EACH DIRECTION CLOSING THE EASTERN LANES. TEMPORARY SIDE ROAD CLOSURES (EXCEPT CTH W) ARE PERMITTED AND SHALL FOLLOW WISDOT STANDARD DETAIL "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES". TEMPORARY USE OF FLAGGERS AT THE BEGINNING AND END OF THE PROJECT IS PERMITTED AND SHALL FOLLOW WISDOT STANDARD DETAIL DRAWING "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION". OLD HWY 141 CLOSED AT USH 141 WITH NO REQUIRED DETOUR.

CLOSURE OF THE EASTERN HALF OF THE USH 141 AND CTH W INTERSECTION PERMITTED FOR 5 CONSECUTIVE DAYS WITH NO REQUIRED DETOUR.

CONSTRUCTION
INSTALL NEW LOOP DETECTOR IN ACCORDANCE WITH THE TEMPORARY SIGNAL PLAN FOR NORTHBOUND USH 141 AT CTH W FOLLOWING WISDOT STANDARD DETAIL DRAWING "LOOP DETECTOR INSTALLED IN EXISTING OR NEW ASPHALTIC PAVEMENT WITH NEW ASPHALTIC OVERLAY". RECONSTRUCT THE USH 141 AND OLD HWY 141 INTERSECTION. COMPLETE MILLING AND RESURFACING OPERATIONS ON THE EASTERN LANES OF USH 141. PAVEMENT JOINTS SHALL FOLLOW FUTURE LANES.

DO NOT START CONSTRUCTION OF THE EASTERN HALF OF THE USH 141 AND CTH W INTERSECTION UNTIL THE TEMPORARY SIGNAL SYSTEM IS OPERATIONAL. RECONSTRUCT THE SOUTHEAST AND NORTHEAST QUADRANTS OF THE INTERSECTION INCLUDING NEW CURB AND GUTTER, TRUCK APRONS, ASPHALTIC SURFACE AND RESTORATION. INSTALL NEW LOOP DETECTOR IN ACCORDANCE WITH THE TEMPORARY SIGNAL PLAN FOR WESTBOUND CTH W AT USH 141 FOLLOWING WISDOT STANDARD DETAIL DRAWING "LOOP DETECTOR INSTALLED IN EXISTING OR NEW ASPHALTIC PAVEMENT WITH NEW ASPHALTIC OVERLAY".



TRAFFIC CONTROL TYPICAL SECTION USH 141
STAGE 3

NOTE: REMOVE CONFLICTING PAVEMENT MARKINGS, AS NEEDED.

2

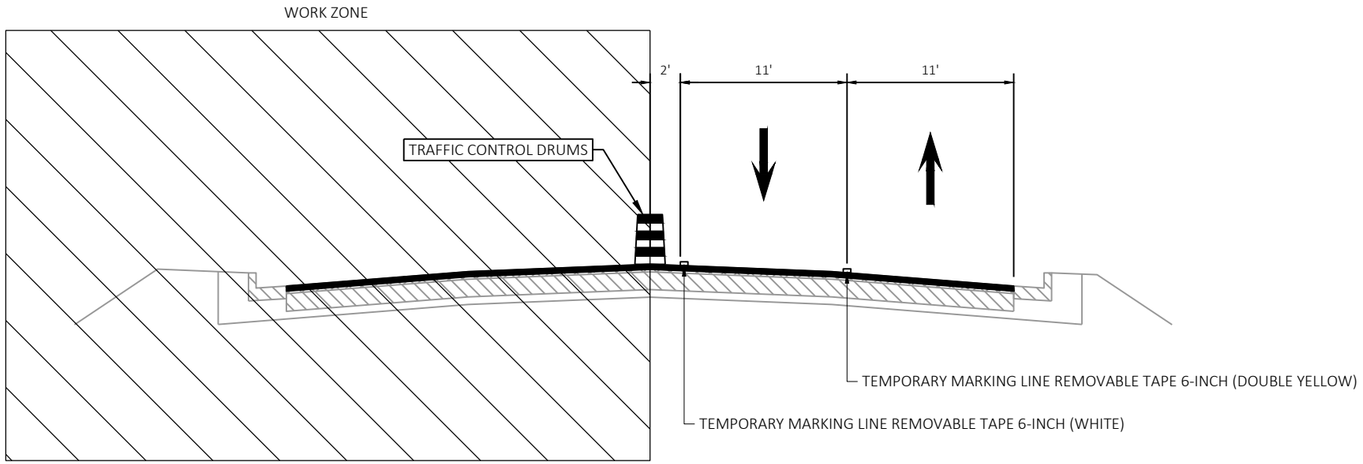
STAGE 4

TRAFFIC
USH 141 SHALL BE REDUCED TO 1-LANE IN EACH DIRECTION CLOSING THE WESTERN LANES. TEMPORARY SIDE ROAD CLOSURES (EXCEPT CTH W) ARE PERMITTED AND SHALL FOLLOW WISDOT STANDARD DETAIL "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES". TEMPORARY USE OF FLAGGERS AT THE BEGINNING AND END OF THE PROJECT IS PERMITTED AND SHALL FOLLOW WISDOT STANDARD DETAIL DRAWING "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION". OLD HWY 141 CLOSED AT USH 141 WITH NO REQUIRED DETOUR.

CLOSURE OF THE WESTERN HALF OF THE USH 141 AND CTH W INTERSECTION PERMITTED FOR 5 CONSECUTIVE DAYS WITH NO REQUIRED DETOUR.

CONSTRUCTION
INSTALL NEW LOOP DETECTOR IN ACCORDANCE WITH THE TEMPORARY SIGNAL PLAN FOR SOUTHBOUND USH 141 AT CTH W FOLLOWING WISDOT STANDARD DETAIL DRAWING "LOOP DETECTOR INSTALLED IN EXISTING OR NEW ASPHALTIC PAVEMENT WITH NEW ASPHALTIC OVERLAY". COMPLETE MILLING AND RESURFACING OPERATIONS ON THE WESTERN LANES OF USH 141. PAVEMENT JOINTS SHALL FOLLOW FUTURE LANES.

RECONSTRUCT THE SOUTHWEST AND NORTHWEST QUADRANTS OF THE USH 141 AND CTH W INTERSECTION INCLUDING NEW CURB AND GUTTER, TRUCK APRONS, AND RESTORATION. INSTALL NEW LOOP DETECTOR IN ACCORDANCE WITH THE TEMPORARY SIGNAL PLAN FOR EASTBOUND CTH W AT USH 141 FOLLOWING WISDOT STANDARD DETAIL DRAWING "LOOP DETECTOR INSTALLED IN EXISTING OR NEW ASPHALTIC PAVEMENT WITH NEW ASPHALTIC OVERLAY".



TRAFFIC CONTROL TYPICAL SECTION USH 141
STAGE 4

STAGE 5

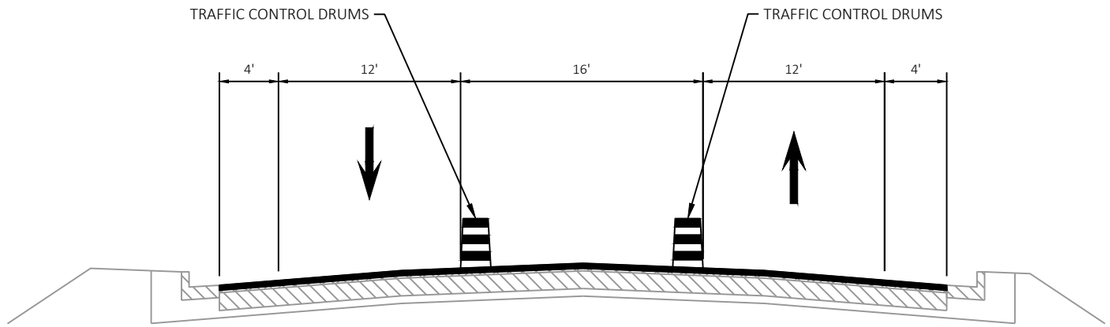
TRAFFIC
USH 141 SHALL UTILIZE THE NEW LANE CONFIGURATION, CLOSING THE CENTER TWO-WAY LEFT TURN LANE. AT THE RAILROAD CROSSING, TRAFFIC SHALL BE SHIFTED INTO THE OUTSIDE SHOULDERS. CLOSURE OF THE GAS STATION DRIVEWAY SOUTHEAST OF THE RAILROAD CROSSING IS PERMITTED WITH NO LIMITATIONS.

REMOVE ALL TRAFFIC CONTROL DEVICES, EXCEPT AT THE RAILROAD CROSSING FOR THE LANE SHIFT, ONCE PAVEMENT MARKINGS ARE IN PLACE.

CLOSURE OF USH 141 AT THE RAILROAD CROSSING PERMITTED FOR 5 CONSECUTIVE DAYS WITH A POSTED DETOUR IN PLACE.

CONSTRUCTION
DO NOT START CONSTRUCTION AT THE RAILROAD CROSSING UNTIL THE RAILROAD CONTRACTOR IS READY TO REHABILITATE THE CROSSING. RECONSTRUCT THE RAILROAD APPROACHES INCLUDING NEW RAISED MEDIANS, CURB AND GUTTER, AND PAVEMENT.

RECONSTRUCT THE GAS STATION DRIVEWAY SOUTHWEST OF THE RAILROAD CROSSING AND INSTALL ASPHALTIC PAVEMENT IN THE NEW RAISED MEDIAN. INSTALL NEW SIGNS AND PAVEMENT MARKINGS. COMPLETE FINAL RESTORATIONS.

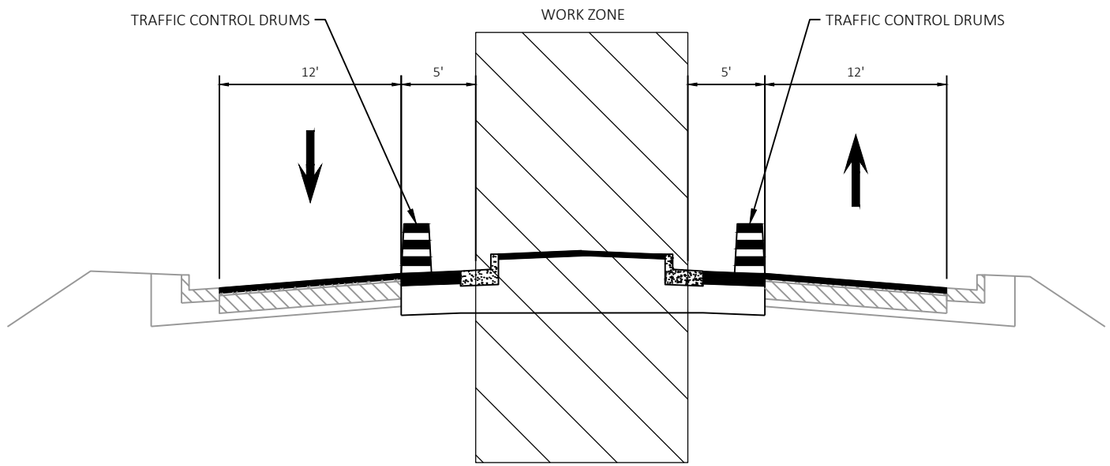


TRAFFIC CONTROL TYPICAL SECTION USH 141
STAGE 5

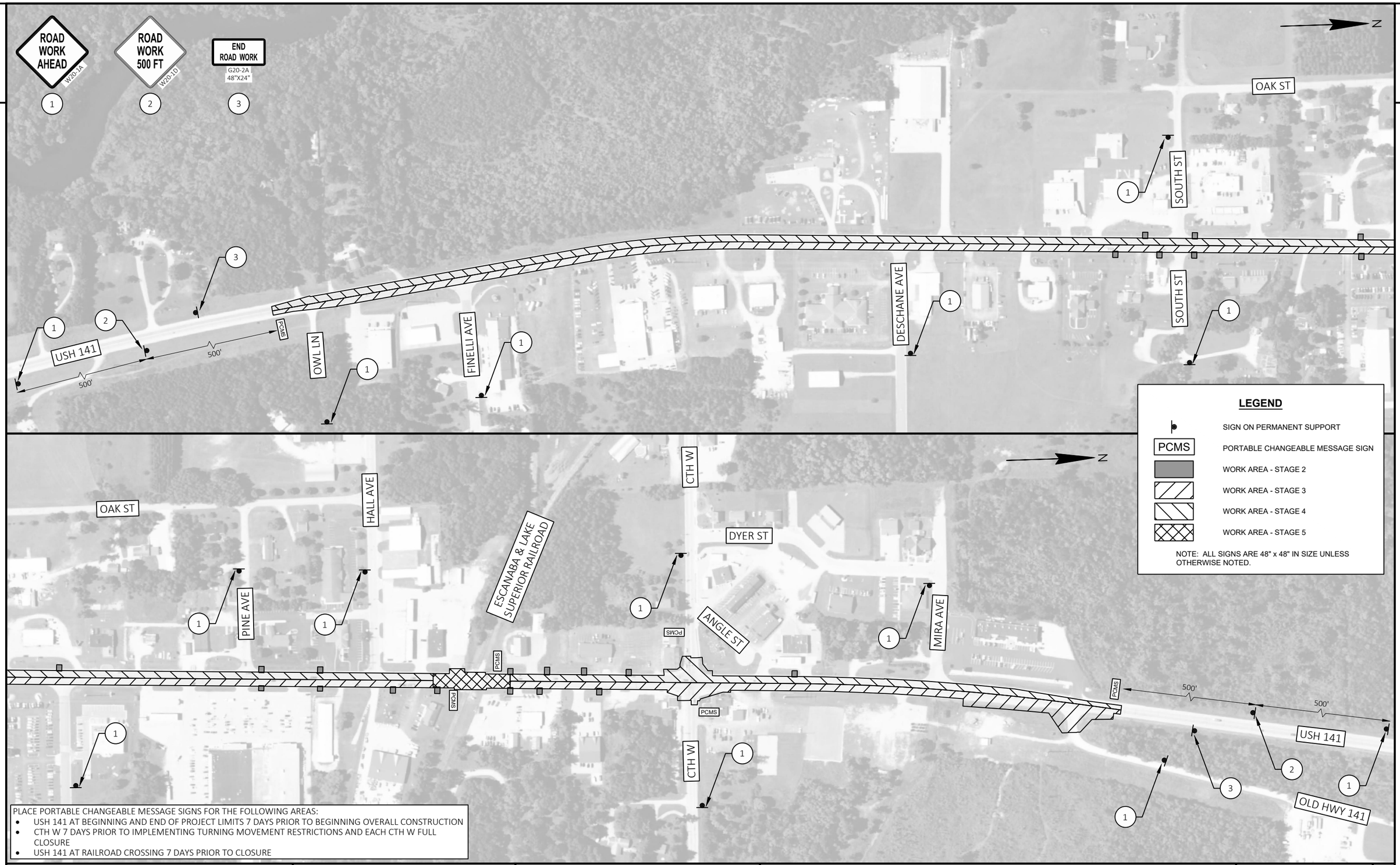
STAGE 6
NOTE: TYPICAL SECTION AND PLANS NOT INCLUDED

TRAFFIC
TEMPORARY USE OF FLAGGERS ON USH 141 AND/OR CTH W IS PERMITTED AND SHALL FOLLOW WISDOT STANDARD DETAIL DRAWING "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION". TRAFFIC SIGNALS AT USH 141 AND CTH W ARE PERMITTED TO BE DARK WITH TEMPORARY ALL-WAY STOP CONDITIONS FOR TRAFFIC FOR A 5-HOUR PERIOD.

CONSTRUCTION
REMOVE TEMPORARY SIGNAL SYSTEM AND INSTALL FUTURE SIGNAL SYSTEM ACCORDING TO THE FUTURE SIGNAL PLAN.



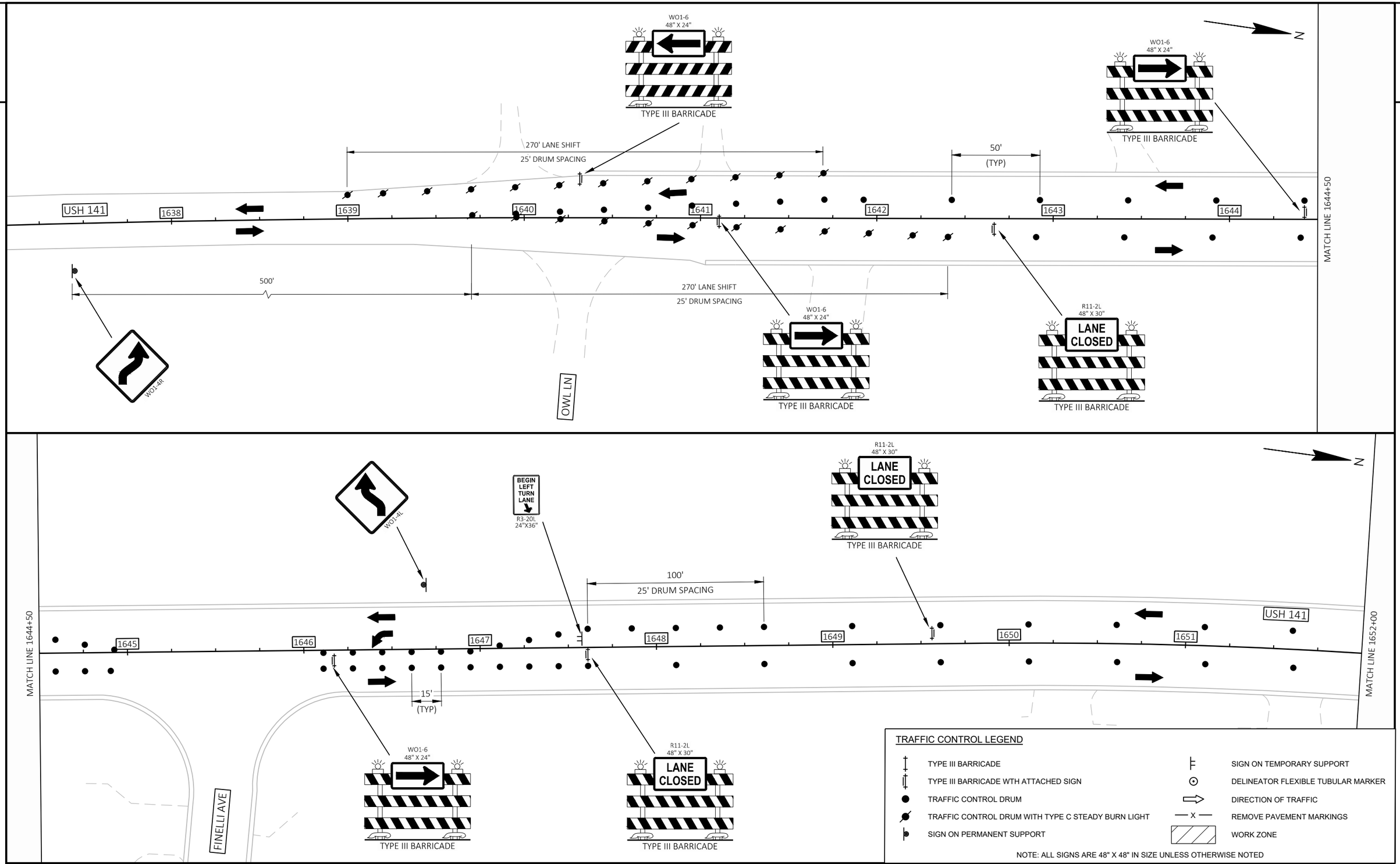
TRAFFIC CONTROL TYPICAL SECTION USH 141
STAGE 5 - AT RAILROAD CROSSING



PLACE PORTABLE CHANGEABLE MESSAGE SIGNS FOR THE FOLLOWING AREAS:

- USH 141 AT BEGINNING AND END OF PROJECT LIMITS 7 DAYS PRIOR TO BEGINNING OVERALL CONSTRUCTION
- CTH W 7 DAYS PRIOR TO IMPLEMENTING TURNING MOVEMENT RESTRICTIONS AND EACH CTH W FULL CLOSURE
- USH 141 AT RAILROAD CROSSING 7 DAYS PRIOR TO CLOSURE

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGING OVERVIEW	SHEET 49	E



TRAFFIC CONTROL LEGEND

TYPE III BARRICADE	SIGN ON TEMPORARY SUPPORT
TYPE III BARRICADE WTH ATTACHED SIGN	DELINEATOR FLEXIBLE TUBULAR MARKER
TRAFFIC CONTROL DRUM	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	REMOVE PAVEMENT MARKINGS
SIGN ON PERMANENT SUPPORT	WORK ZONE

NOTE: ALL SIGNS ARE 48" X 48" IN SIZE UNLESS OTHERWISE NOTED

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 1	SHEET 50	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC1.DWG
LAYOUT NAME - 025101-tc1

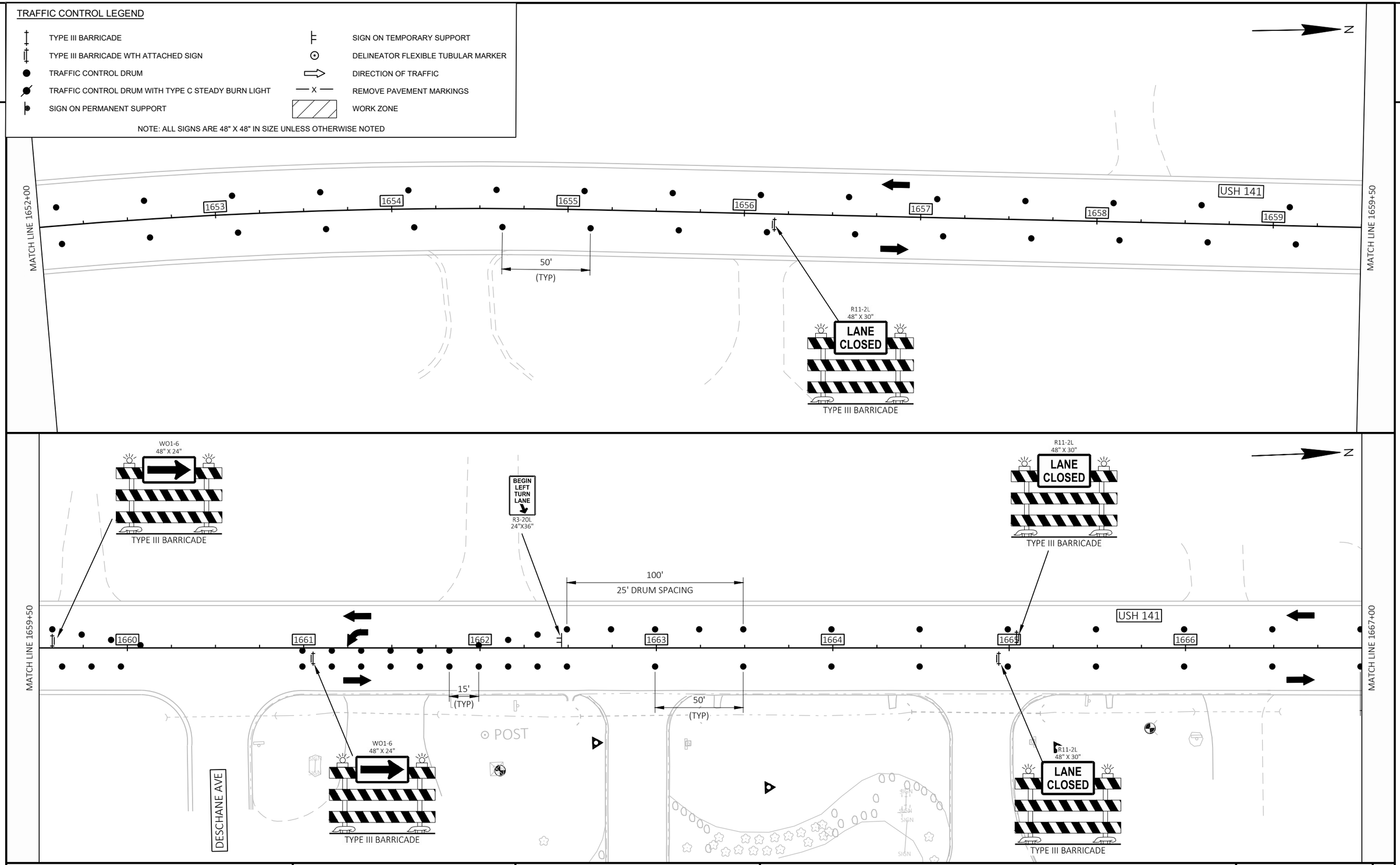
PLOT DATE : 10/21/2024 4:48 PM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

NOTE: ALL SIGNS ARE 48" X 48" IN SIZE UNLESS OTHERWISE NOTED



PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 1	SHEET 51	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC1.DWG
LAYOUT NAME - 025102-tc1

PLOT DATE : 10/21/2024 4:48 PM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE 1667+00

WO1-6
48" X 24"
TYPE III BARRICADE

SOUTH ST

USH 141

1668 1669 1670 1671 1672 1673 1674

100'
25' DRUM SPACING

BEGIN LEFT TURN LANE
R3-20L
24"X36"

100'
25' DRUM SPACING

15'
(TYP)

50'
(TYP)

WO1-6
48" X 24"
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

MATCH LINE 1674+50

2

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

100'
25' DRUM SPACING

MATCH LINE 1674+50

USH 141

1675 1676 1677 1678 1679 1680 1681

WO1-6
48" X 24"
TYPE III BARRICADE

WITT ST

MATCH LINE 1682+00

N

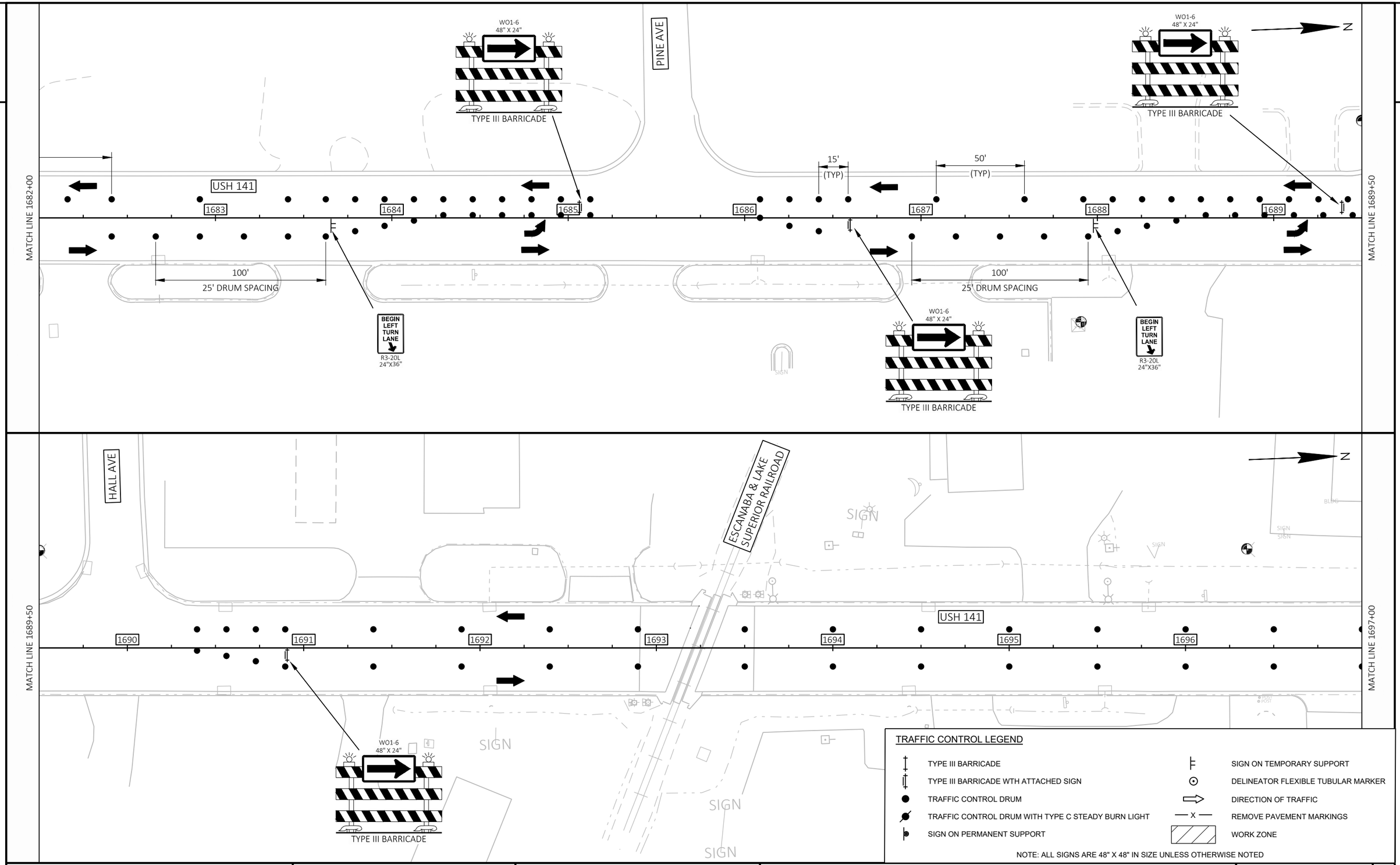
TRAFFIC CONTROL LEGEND

TYPE III BARRICADE	SIGN ON TEMPORARY SUPPORT
TYPE III BARRICADE WTH ATTACHED SIGN	DELINEATOR FLEXIBLE TUBULAR MARKER
TRAFFIC CONTROL DRUM	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	REMOVE PAVEMENT MARKINGS
SIGN ON PERMANENT SUPPORT	WORK ZONE

NOTE: ALL SIGNS ARE 48" X 48" IN SIZE UNLESS OTHERWISE NOTED

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 1	SHEET 52	E

2



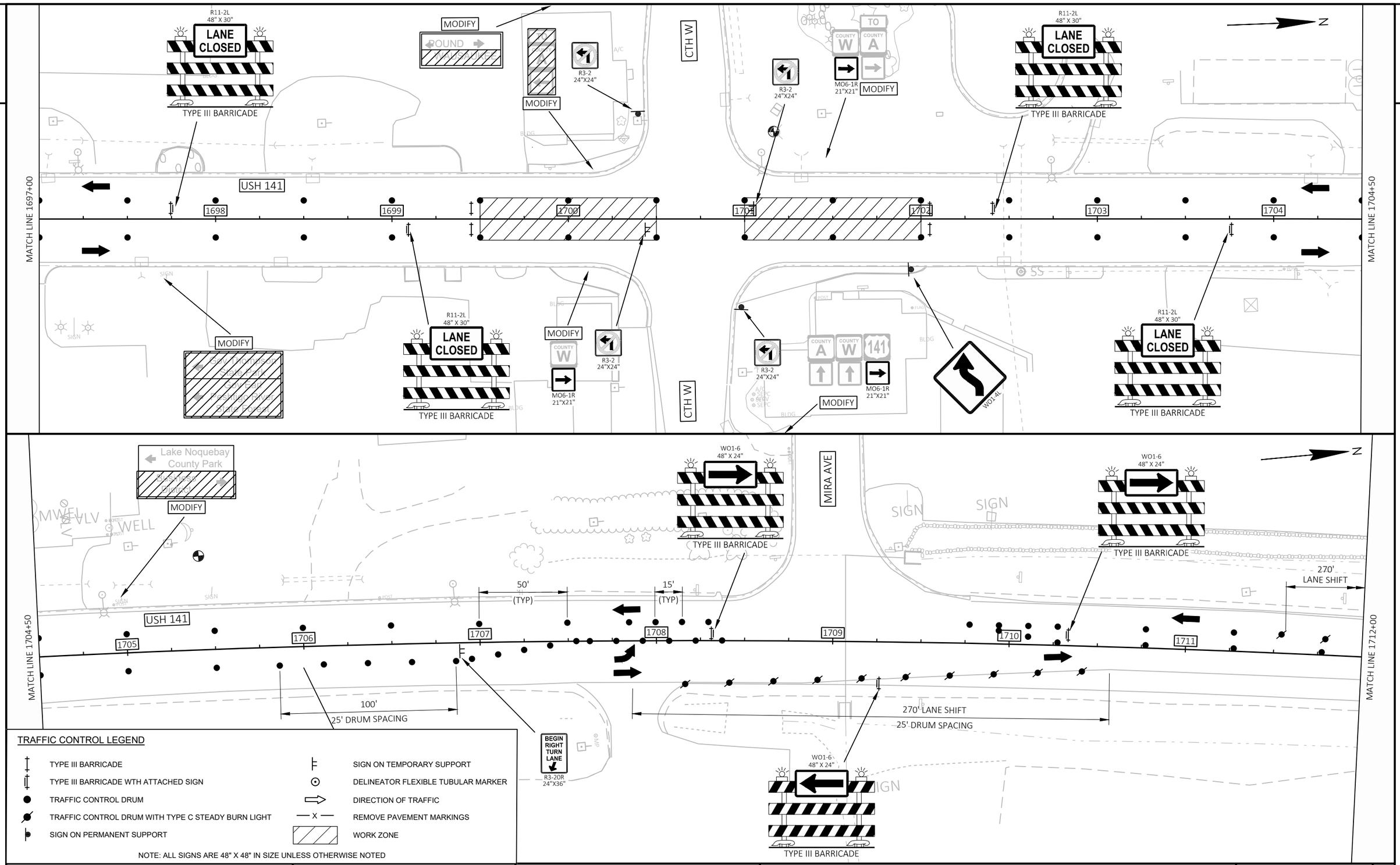
TRAFFIC CONTROL LEGEND

TYPE III BARRICADE	SIGN ON TEMPORARY SUPPORT
TYPE III BARRICADE WTH ATTACHED SIGN	DELINEATOR FLEXIBLE TUBULAR MARKER
TRAFFIC CONTROL DRUM	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	REMOVE PAVEMENT MARKINGS
SIGN ON PERMANENT SUPPORT	WORK ZONE

NOTE: ALL SIGNS ARE 48" X 48" IN SIZE UNLESS OTHERWISE NOTED

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 1	SHEET 53	E

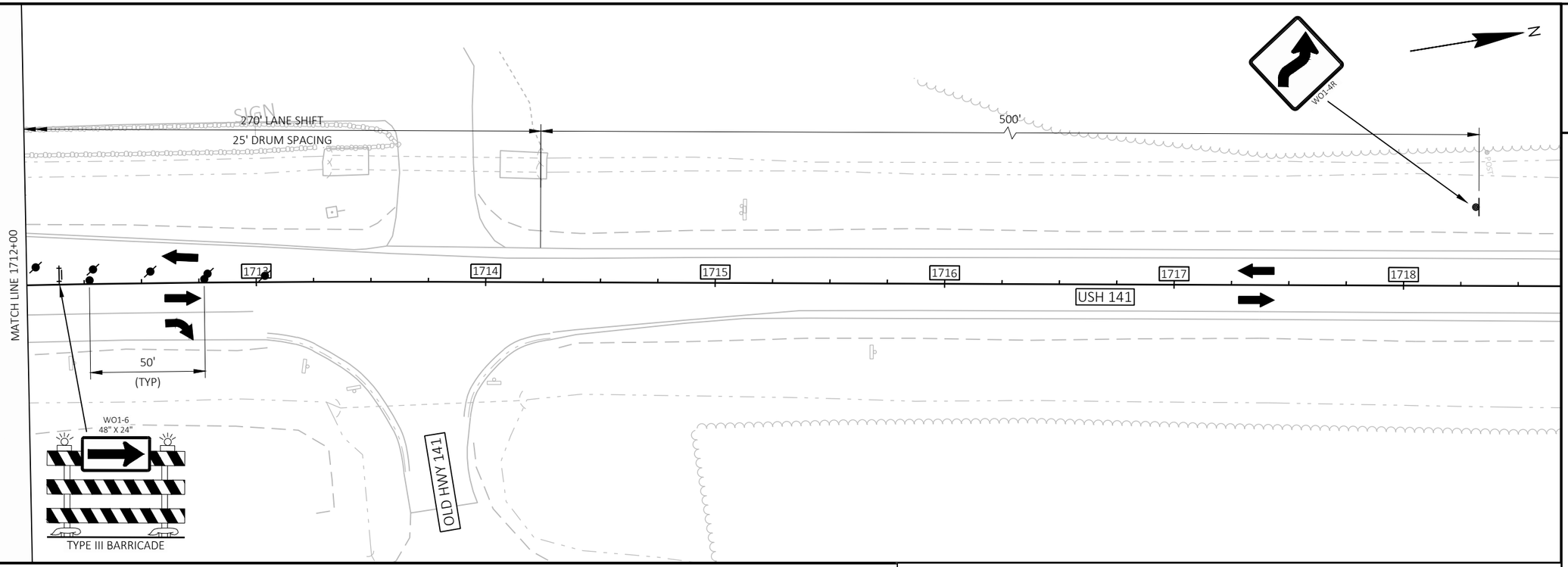
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LAYOUT NAME - 025104-tc1
PLOT DATE : 10/21/2024 4:49 PM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 1	SHEET 54	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC1.DWG
LAYOUT NAME - 025105-tc1
PLOT DATE : 10/22/2024 7:46 AM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2



TRAFFIC CONTROL LEGEND

TYPE III BARRICADE	SIGN ON TEMPORARY SUPPORT
TYPE III BARRICADE WTH ATTACHED SIGN	DELINEATOR FLEXIBLE TUBULAR MARKER
TRAFFIC CONTROL DRUM	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	REMOVE PAVEMENT MARKINGS
SIGN ON PERMANENT SUPPORT	WORK ZONE

NOTE: ALL SIGNS ARE 48" X 48" IN SIZE UNLESS OTHERWISE NOTED

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 1	SHEET 55	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC1.DWG
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PLOT DATE : 10/21/2024 4:49 PM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

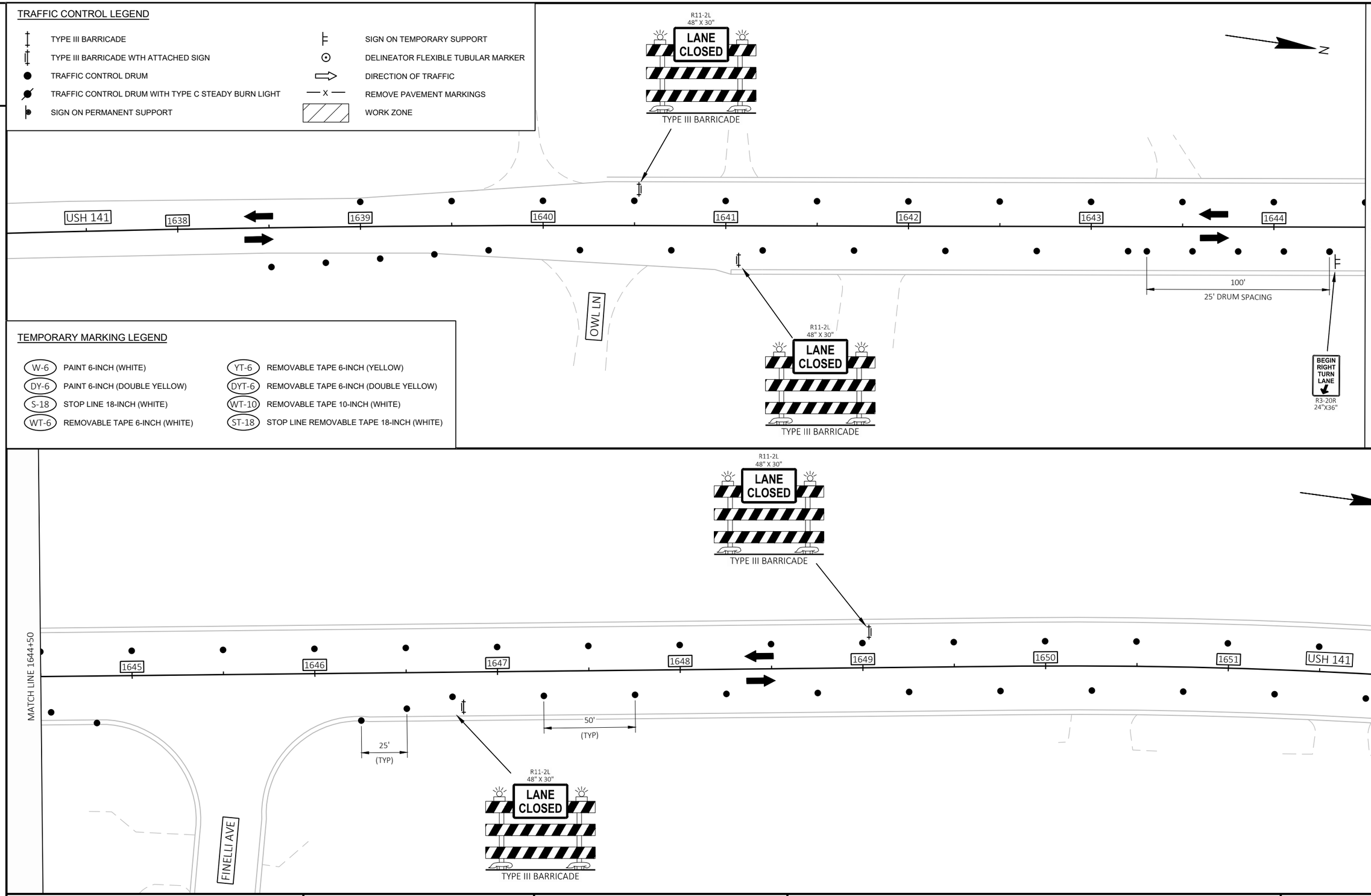
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TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

TEMPORARY MARKING LEGEND

W-6	PAINT 6-INCH (WHITE)	YT-6	REMOVABLE TAPE 6-INCH (YELLOW)
DY-6	PAINT 6-INCH (DOUBLE YELLOW)	DYT-6	REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
S-18	STOP LINE 18-INCH (WHITE)	WT-10	REMOVABLE TAPE 10-INCH (WHITE)
WT-6	REMOVABLE TAPE 6-INCH (WHITE)	ST-18	STOP LINE REMOVABLE TAPE 18-INCH (WHITE)



PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 2	SHEET 56	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC2.DWG
LAYOUT NAME - 025101-tc2

PLOT DATE : 10/21/2024 4:58 PM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

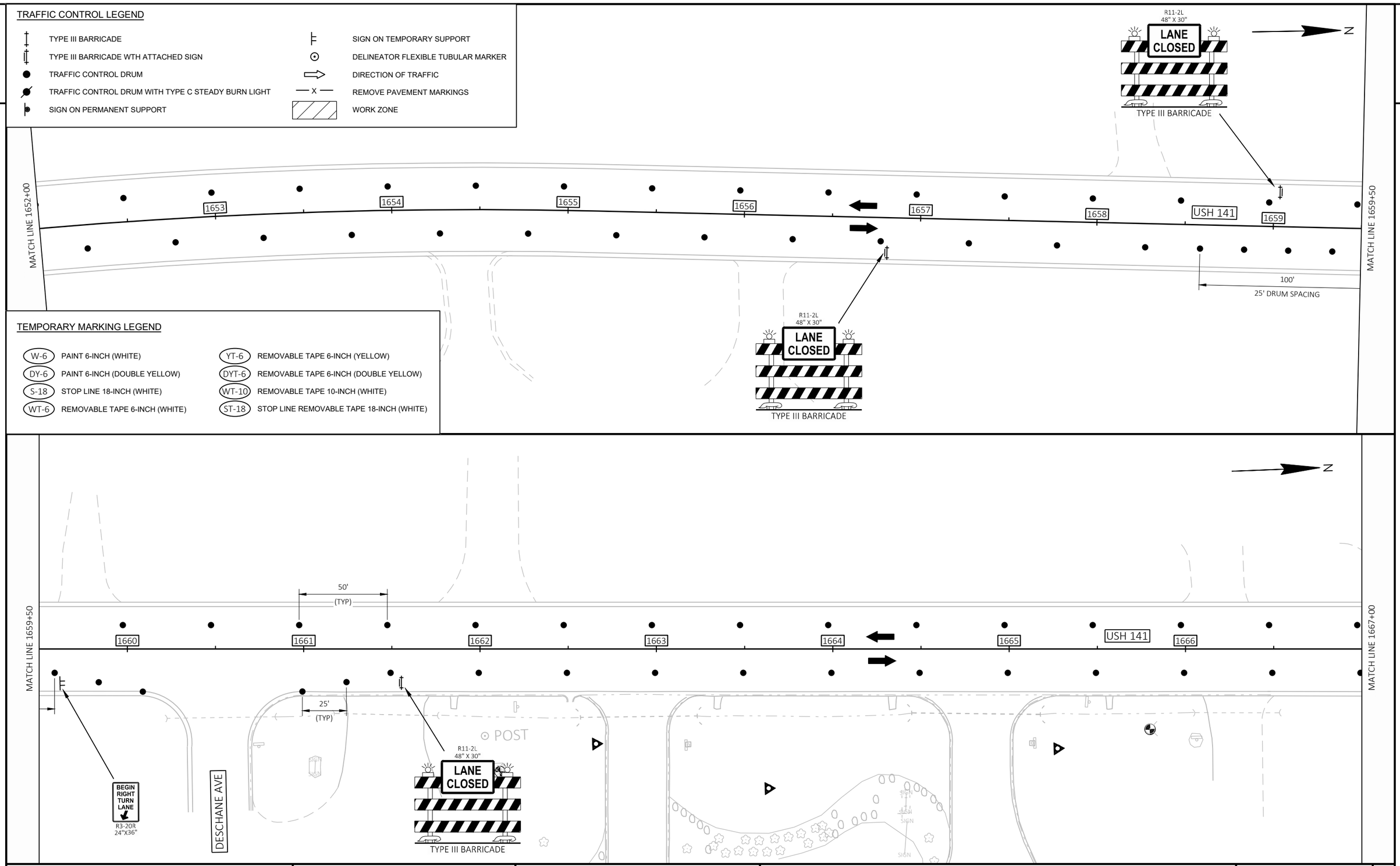
2

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

TEMPORARY MARKING LEGEND

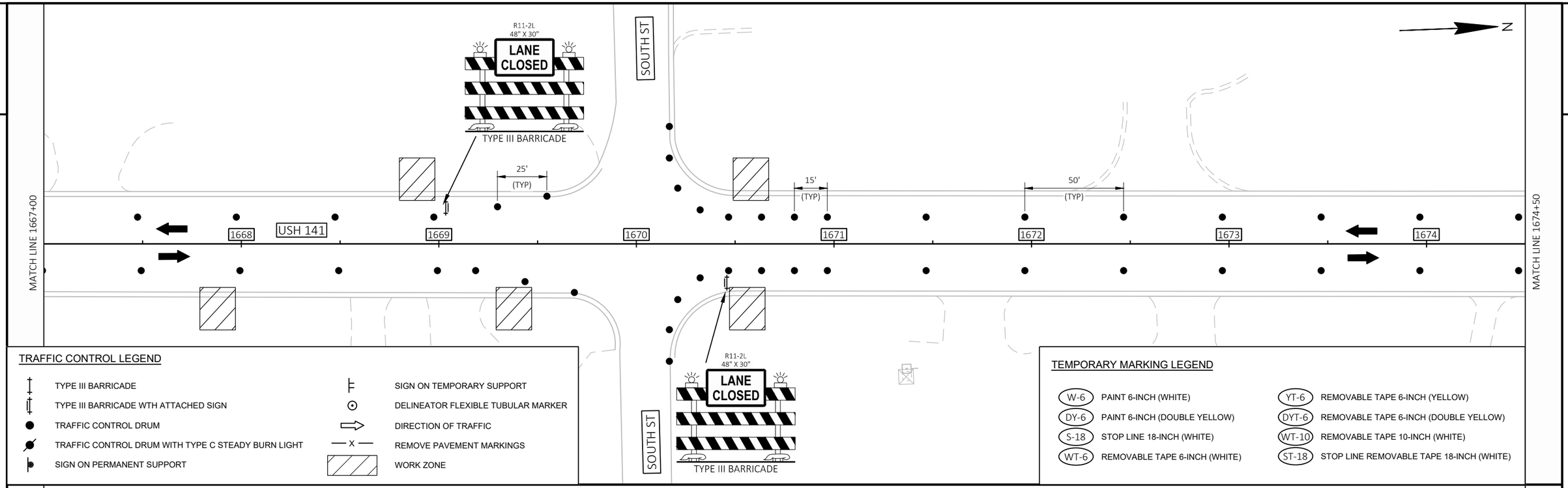
W-6	PAINT 6-INCH (WHITE)	YT-6	REMOVABLE TAPE 6-INCH (YELLOW)
DY-6	PAINT 6-INCH (DOUBLE YELLOW)	DYT-6	REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
S-18	STOP LINE 18-INCH (WHITE)	WT-10	REMOVABLE TAPE 10-INCH (WHITE)
WT-6	REMOVABLE TAPE 6-INCH (WHITE)	ST-18	STOP LINE REMOVABLE TAPE 18-INCH (WHITE)



PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 2	SHEET 57	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC2.DWG
LAYOUT NAME - 025102-tc2
PLOT DATE : 10/21/2024 4:58 PM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

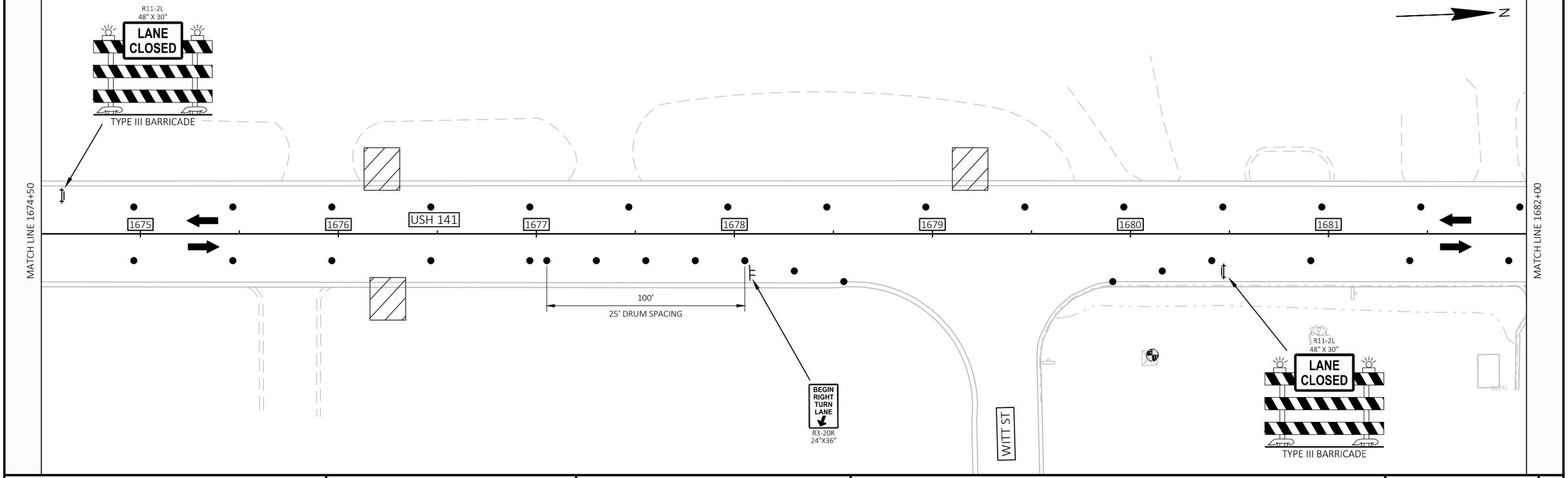


TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

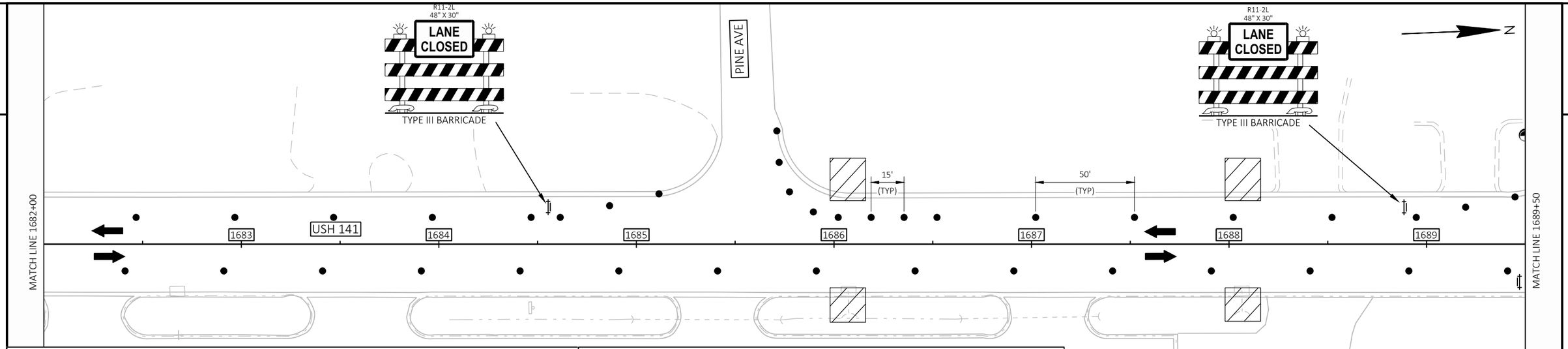
TEMPORARY MARKING LEGEND

W-6	PAINT 6-INCH (WHITE)	YT-6	REMOVABLE TAPE 6-INCH (YELLOW)
DY-6	PAINT 6-INCH (DOUBLE YELLOW)	DYT-6	REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
S-18	STOP LINE 18-INCH (WHITE)	WT-10	REMOVABLE TAPE 10-INCH (WHITE)
WT-6	REMOVABLE TAPE 6-INCH (WHITE)	ST-18	STOP LINE REMOVABLE TAPE 18-INCH (WHITE)



PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 2	SHEET 58	E

2



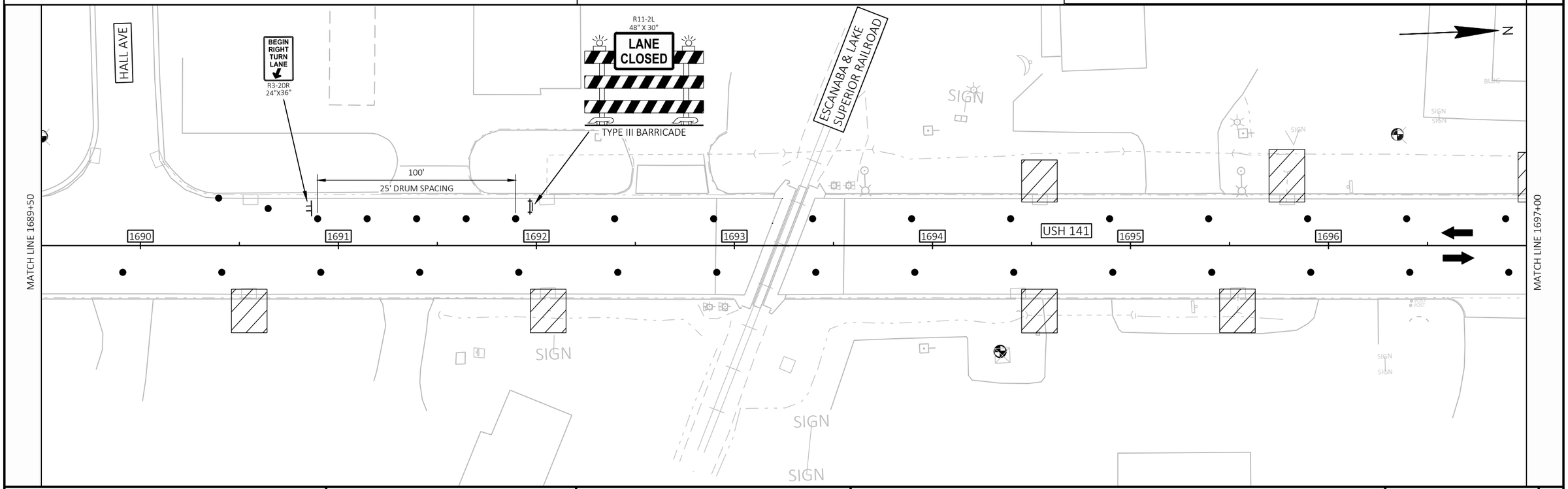
2

TRAFFIC CONTROL LEGEND

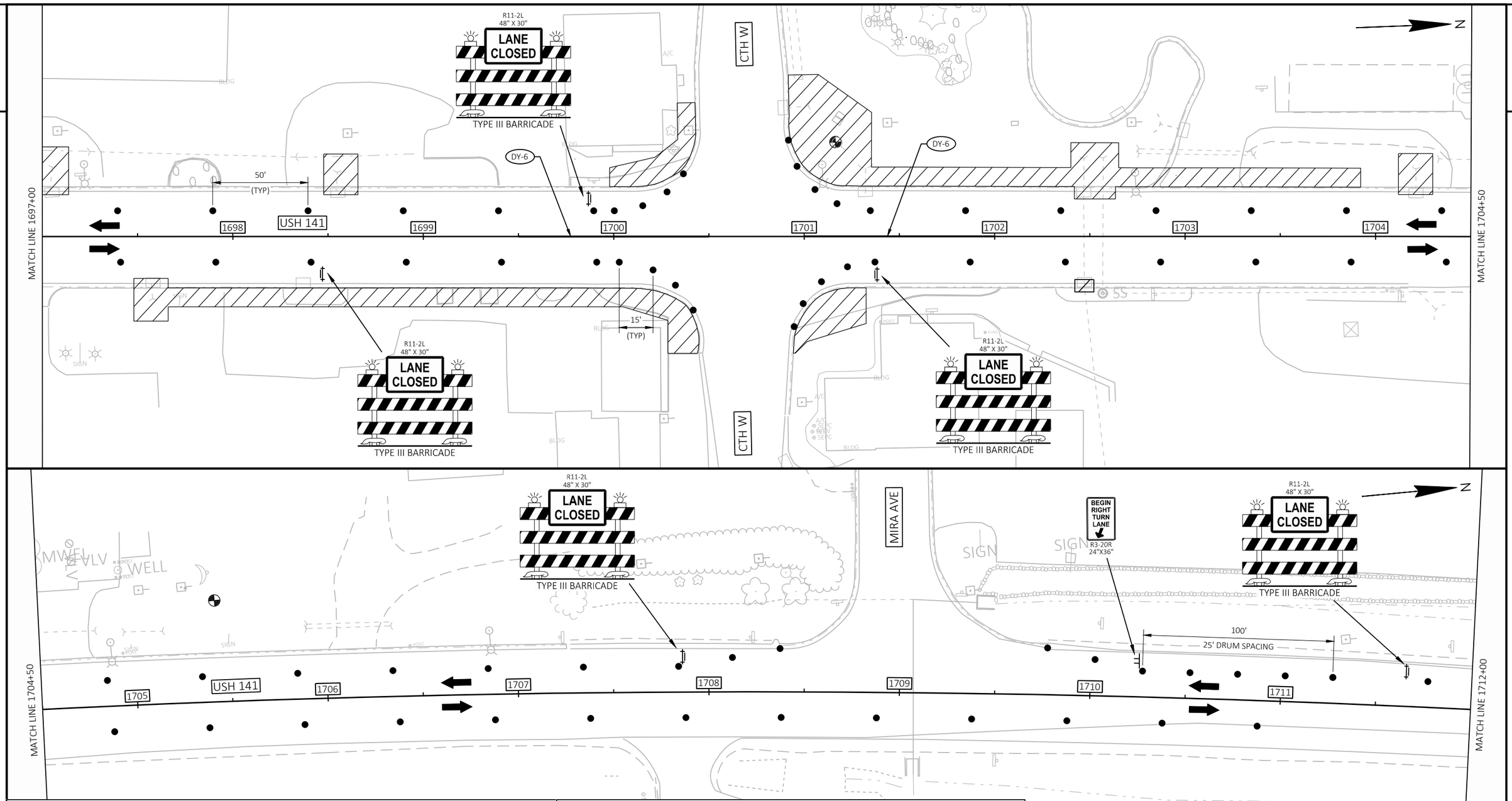
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

TEMPORARY MARKING LEGEND

W-6	PAINT 6-INCH (WHITE)	YT-6	REMOVABLE TAPE 6-INCH (YELLOW)
DY-6	PAINT 6-INCH (DOUBLE YELLOW)	DYT-6	REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
S-18	STOP LINE 18-INCH (WHITE)	WT-10	REMOVABLE TAPE 10-INCH (WHITE)
WT-6	REMOVABLE TAPE 6-INCH (WHITE)	ST-18	STOP LINE REMOVABLE TAPE 18-INCH (WHITE)



PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 2	SHEET 59	E



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- — x — REMOVE PAVEMENT MARKINGS
- WORK ZONE

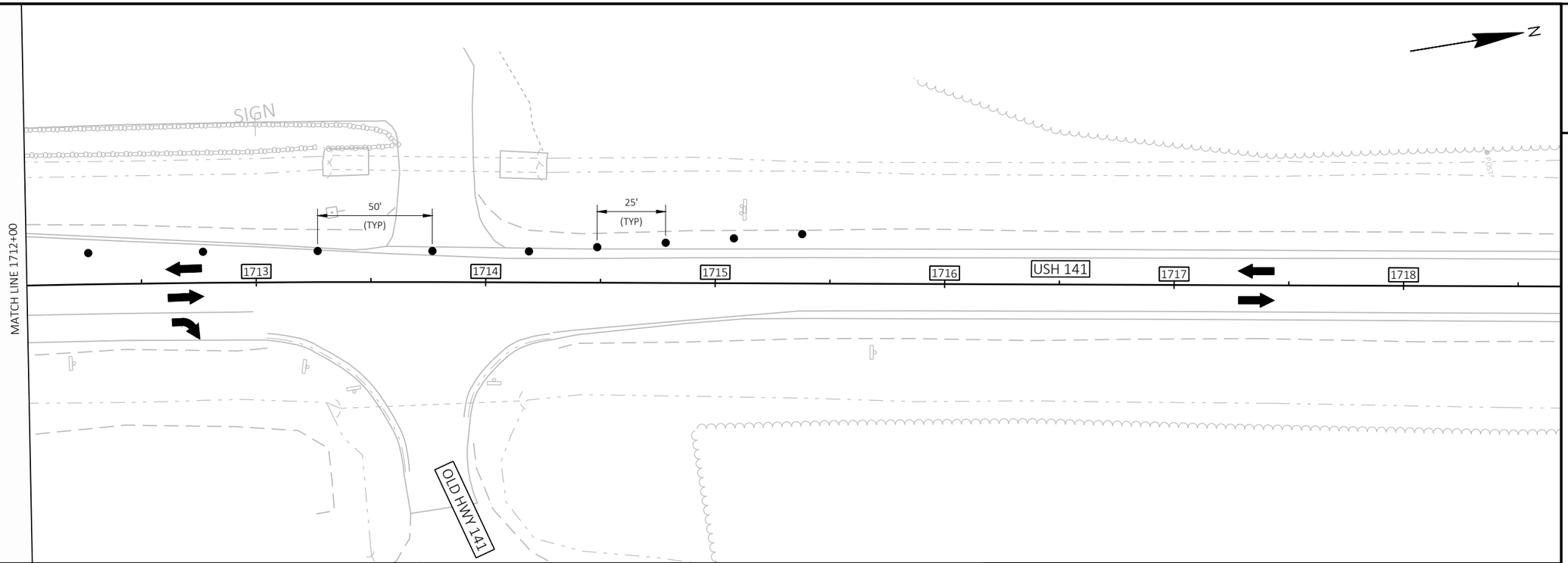
TEMPORARY MARKING LEGEND

W-6	PAINT 6-INCH (WHITE)	YT-6	REMOVABLE TAPE 6-INCH (YELLOW)
DY-6	PAINT 6-INCH (DOUBLE YELLOW)	DYT-6	REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
S-18	STOP LINE 18-INCH (WHITE)	WT-10	REMOVABLE TAPE 10-INCH (WHITE)
WT-6	REMOVABLE TAPE 6-INCH (WHITE)	ST-18	STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 2	SHEET 60 E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC2.DWG
LAYOUT NAME - 025105-tc2
PLOT DATE : 12/18/2024 11:12 AM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

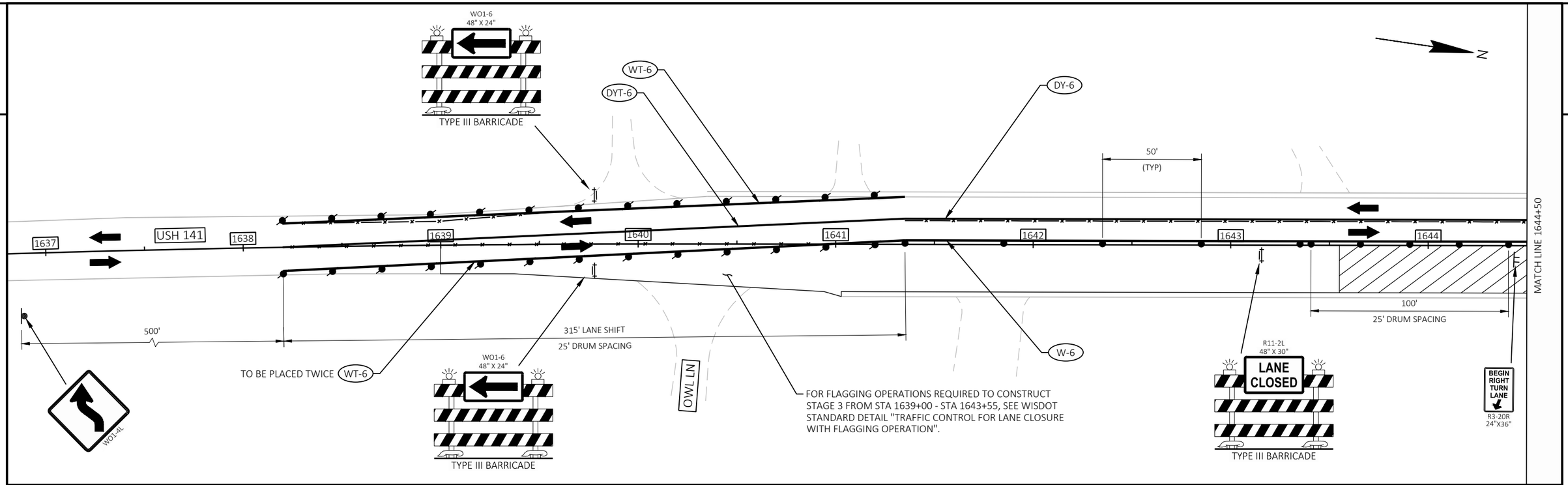


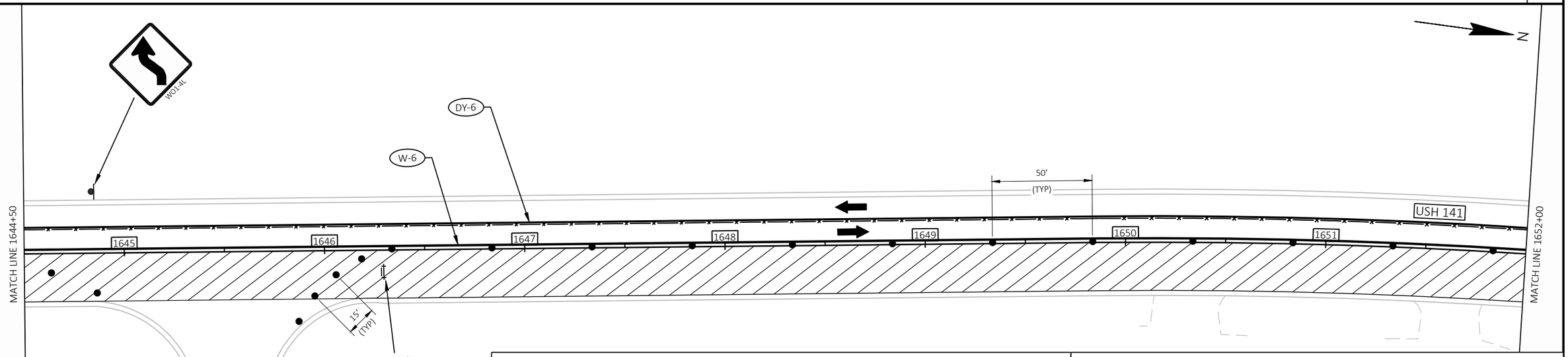
TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

TEMPORARY MARKING LEGEND

- W-6 PAINT 6-INCH (WHITE)
- DY-6 PAINT 6-INCH (DOUBLE YELLOW)
- S-18 STOP LINE 18-INCH (WHITE)
- WT-6 REMOVABLE TAPE 6-INCH (WHITE)
- YT-6 REMOVABLE TAPE 6-INCH (YELLOW)
- DYT-6 REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
- WT-10 REMOVABLE TAPE 10-INCH (WHITE)
- ST-18 STOP LINE REMOVABLE TAPE 18-INCH (WHITE)





TRAFFIC CONTROL LEGEND

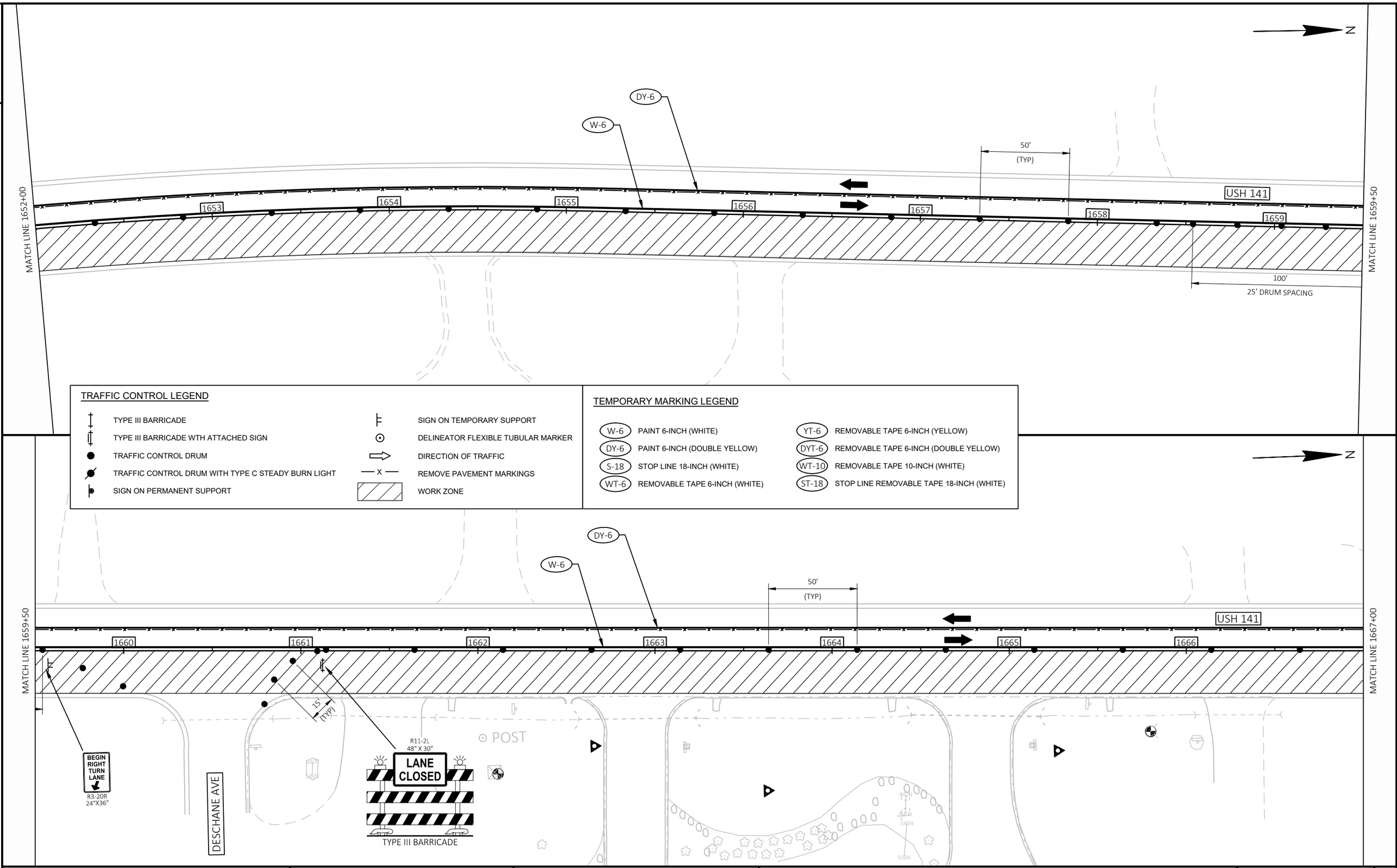
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

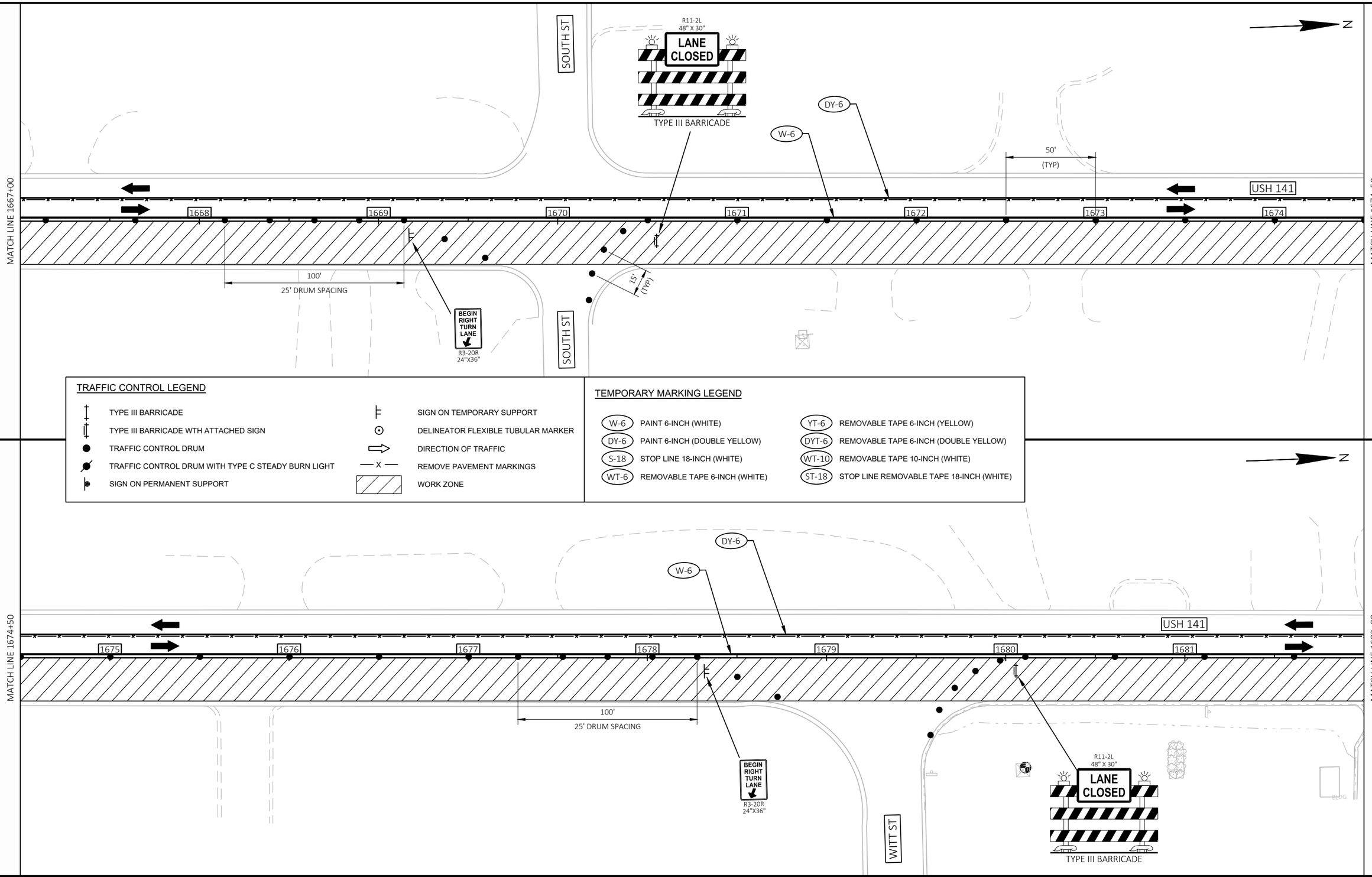
TEMPORARY MARKING LEGEND

W-6	PAINT 6-INCH (WHITE)	YT-6	REMOVABLE TAPE 6-INCH (YELLOW)
DY-6	PAINT 6-INCH (DOUBLE YELLOW)	DYT-6	REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
S-18	STOP LINE 18-INCH (WHITE)	WT-10	REMOVABLE TAPE 10-INCH (WHITE)
WT-6	REMOVABLE TAPE 6-INCH (WHITE)	ST-18	STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 3	SHEET 62	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC3.DWG
LAYOUT NAME - 025101-tc3
PLOT DATE : 10/22/2024 8:10 AM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44


N
DY-6
W-6
50'
(TYP)
USH 141
MATCH LINE 1652+00
1653
1654
1655
1656
1657
1658
1659
MATCH LINE 1659+50
100'
25' DRUM SPACING
TRAFFIC CONTROL LEGEND
TYPE III BARRICADE
TYPE III BARRICADE WTH ATTACHED SIGN
TRAFFIC CONTROL DRUM
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
SIGN ON PERMANENT SUPPORT
SIGN ON TEMPORARY SUPPORT
DELINEATOR FLEXIBLE TUBULAR MARKER
DIRECTION OF TRAFFIC
REMOVE PAVEMENT MARKINGS
WORK ZONE
TEMPORARY MARKING LEGEND
W-6 PAINT 6-INCH (WHITE)
DY-6 PAINT 6-INCH (DOUBLE YELLOW)
S-18 STOP LINE 18-INCH (WHITE)
WT-6 REMOVABLE TAPE 6-INCH (WHITE)
YT-6 REMOVABLE TAPE 6-INCH (YELLOW)
DYT-6 REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
WT-10 REMOVABLE TAPE 10-INCH (WHITE)
ST-18 STOP LINE REMOVABLE TAPE 18-INCH (WHITE)
N
DY-6
W-6
50'
(TYP)
USH 141
MATCH LINE 1659+50
1660
1661
1662
1663
1664
1665
1666
MATCH LINE 1667+00
15'
(TYP)
POST
BEGIN RIGHT TURN LANE
R3-20R
24"X36"
DESCHANE AVE
R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE



TRAFFIC CONTROL LEGEND

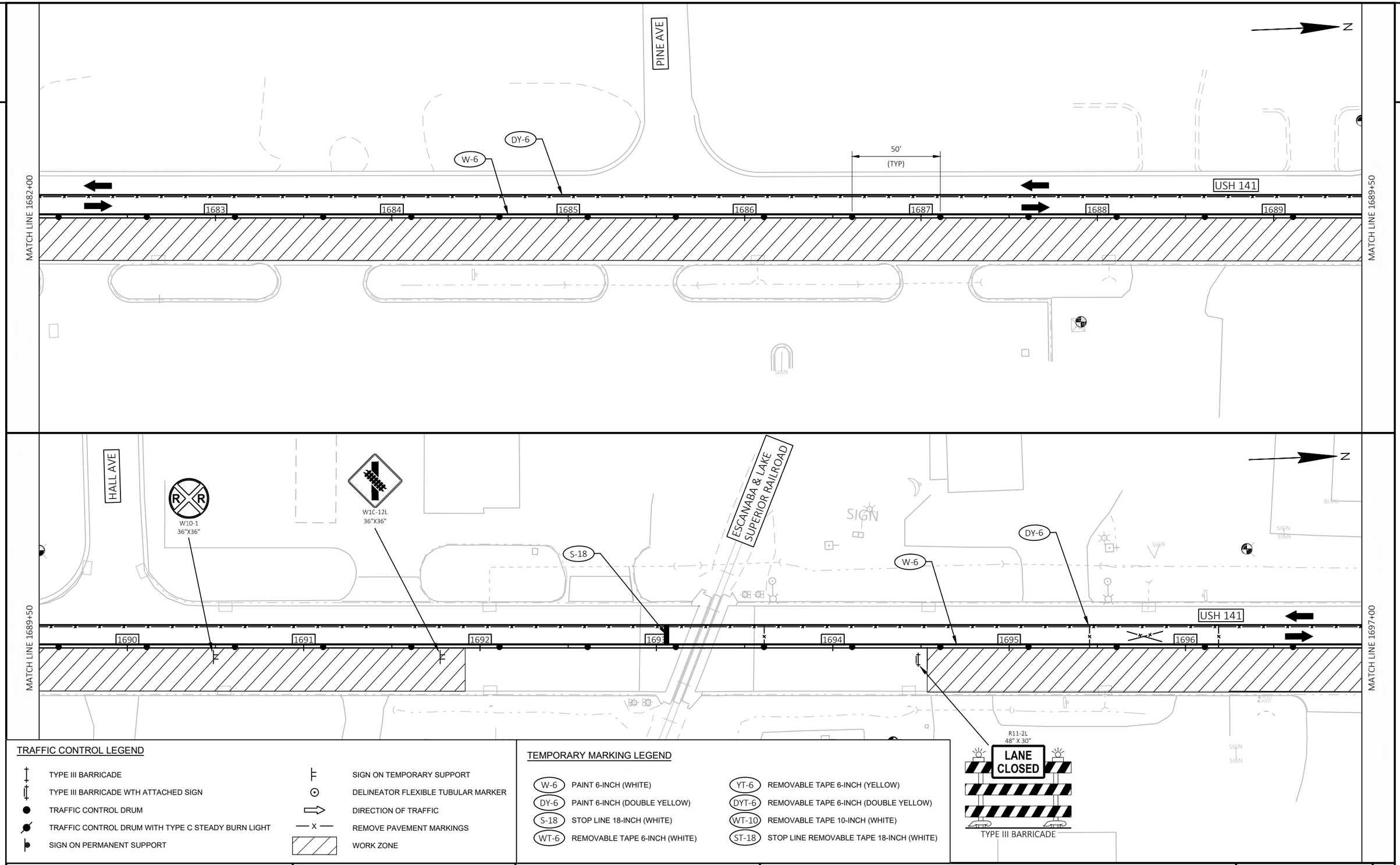
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

TEMPORARY MARKING LEGEND

- W-6 PAINT 6-INCH (WHITE)
- DY-6 PAINT 6-INCH (DOUBLE YELLOW)
- S-18 STOP LINE 18-INCH (WHITE)
- WT-6 REMOVABLE TAPE 6-INCH (WHITE)
- YT-6 REMOVABLE TAPE 6-INCH (YELLOW)
- DYT-6 REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
- WT-10 REMOVABLE TAPE 10-INCH (WHITE)
- ST-18 STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 3	SHEET 64	E

2



TRAFFIC CONTROL LEGEND

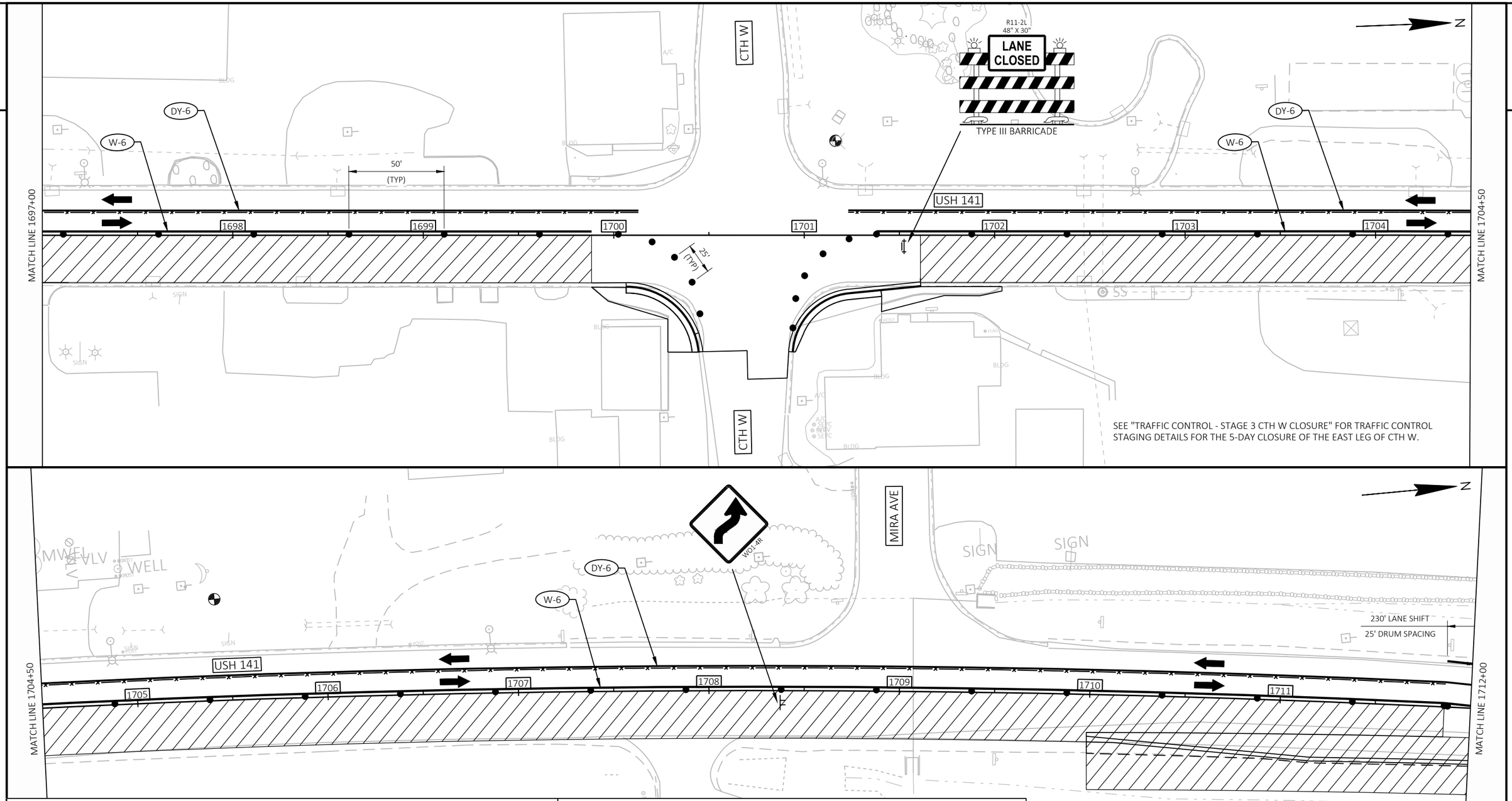
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

TEMPORARY MARKING LEGEND

- W-6 PAINT 6-INCH (WHITE)
- DY-6 PAINT 6-INCH (DOUBLE YELLOW)
- S-18 STOP LINE 18-INCH (WHITE)
- WT-6 REMOVABLE TAPE 6-INCH (WHITE)
- YT-6 REMOVABLE TAPE 6-INCH (YELLOW)
- DYT-6 REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
- WT-10 REMOVABLE TAPE 10-INCH (WHITE)
- ST-18 STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 3	SHEET 65	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC3.DWG
LAYOUT NAME - 025104-tc3
PLOT DATE : 10/22/2024 8:56 AM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44



SEE "TRAFFIC CONTROL - STAGE 3 CTH W CLOSURE" FOR TRAFFIC CONTROL STAGING DETAILS FOR THE 5-DAY CLOSURE OF THE EAST LEG OF CTH W.

TRAFFIC CONTROL LEGEND

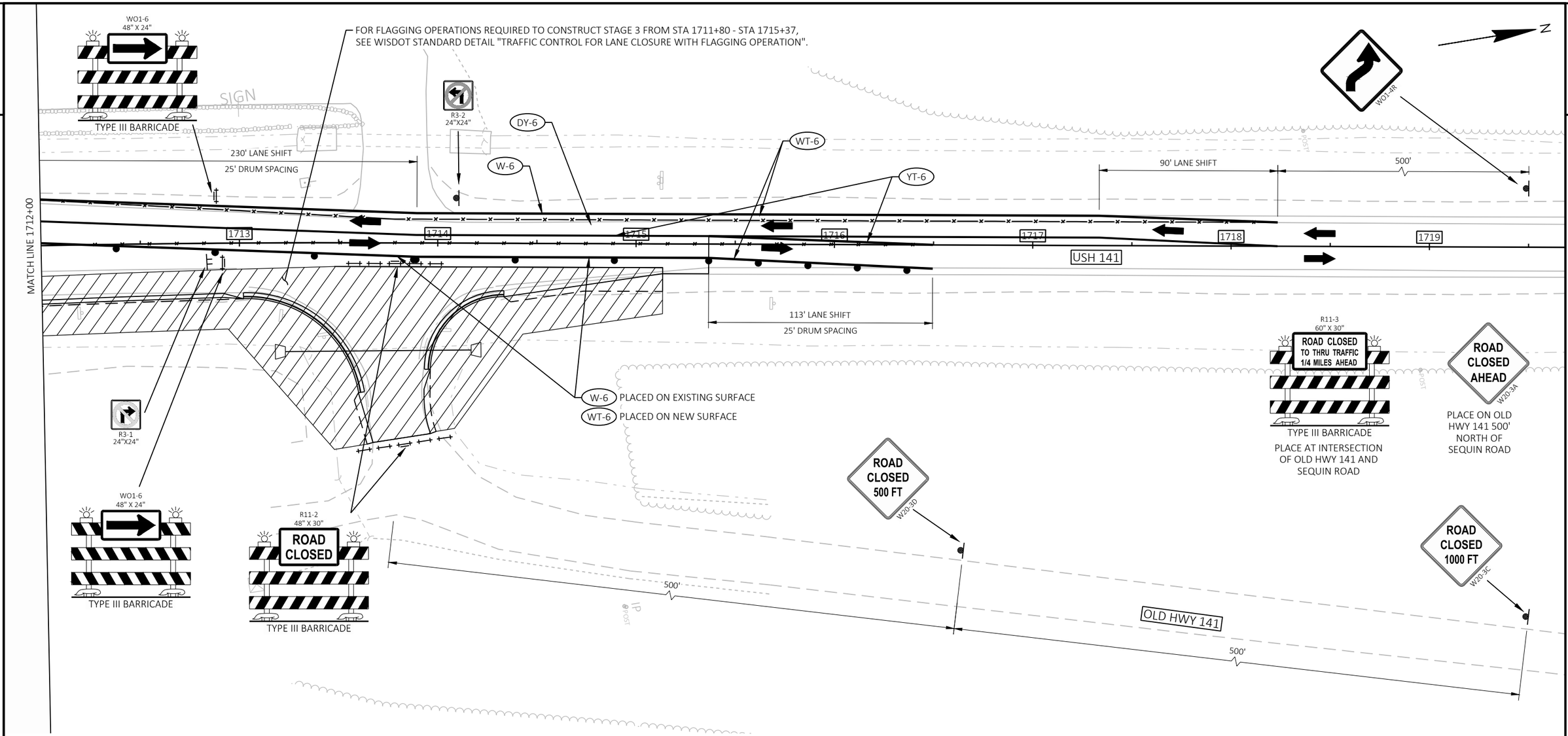
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

TEMPORARY MARKING LEGEND

W-6	PAINT 6-INCH (WHITE)	YT-6	REMOVABLE TAPE 6-INCH (YELLOW)
DY-6	PAINT 6-INCH (DOUBLE YELLOW)	DYT-6	REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
S-18	STOP LINE 18-INCH (WHITE)	WT-10	REMOVABLE TAPE 10-INCH (WHITE)
WT-6	REMOVABLE TAPE 6-INCH (WHITE)	ST-18	STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 3	SHEET 66 E

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

TEMPORARY MARKING LEGEND

W-6	PAINT 6-INCH (WHITE)	YT-6	REMOVABLE TAPE 6-INCH (YELLOW)
DY-6	PAINT 6-INCH (DOUBLE YELLOW)	DYT-6	REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
S-18	STOP LINE 18-INCH (WHITE)	WT-10	REMOVABLE TAPE 10-INCH (WHITE)
WT-6	REMOVABLE TAPE 6-INCH (WHITE)	ST-18	STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

NOTES:
1. REMOVE OR COVER CONFLICTING ADVANCED WARNING SIGNS FROM PREVIOUS STAGES.
2. CONFLICTING WAYFINDING SIGNS NOT SHOWN ON PLANS TO BE REMOVED OR MODIFIED BY THE VILLAGE OF CRIVITZ.

* ALREADY IN-PLACE

(APPROX. STA 1705+49)

Business District

MODIFY

USH 141

1703

1702

1701

1700

1699

W-6

DY-6

TO COUNTY W COUNTY A

M06-1R 21"X21"

MODIFY

R3-2 24"X24"

R11-2 48" X 30"

ROAD CLOSED

TYPE III BARRICADE

REMOVE OR COVER

R11-3 60" X 30"

ROAD CLOSED TO THRU TRAFFIC 1/4 MILES AHEAD

TYPE III BARRICADE

ROAD CLOSED 500 FT W20-3D

PLACE 500' PRIOR TO BARRICADE CLOSURE

PLACE AT INTERSECTION OF CTH W AND HATTIE ST

ROAD CLOSED AHEAD W20-3A

PLACE AT INTERSECTION OF CTH W AND RICHLEN AVE

CTH W

57 'CW' 58 'CW' 59 'CW' 60 'CW' 61 'CW' 62 'CW' 63 'CW' 64 'CW'

N

WT-10

R3-8F 36"X30"

LEFT LANE MUST TURN LEFT R3-7L 30"X30"

ROAD CLOSED 500 FT W20-3D

PLACE AT INTERSECTION OF CTH W AND DYER STREET

ROAD CLOSED 1000 FT W20-3C

PLACE 500' PRIOR TO W20-3D SIGN

ROAD CLOSED AHEAD W20-3A

PLACE 500' PRIOR TO W20-3C SIGN

R11-2 48" X 30"

ROAD CLOSED

TYPE III BARRICADE

M1-5A M1-5A COUNTY A COUNTY W

MO6- J13-2 J6-1L 21"X48"X45"X21"

R3-1 24"X24"

Business District

MODIFY

(APPROX. STA 1694+25)

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

TEMPORARY MARKING LEGEND

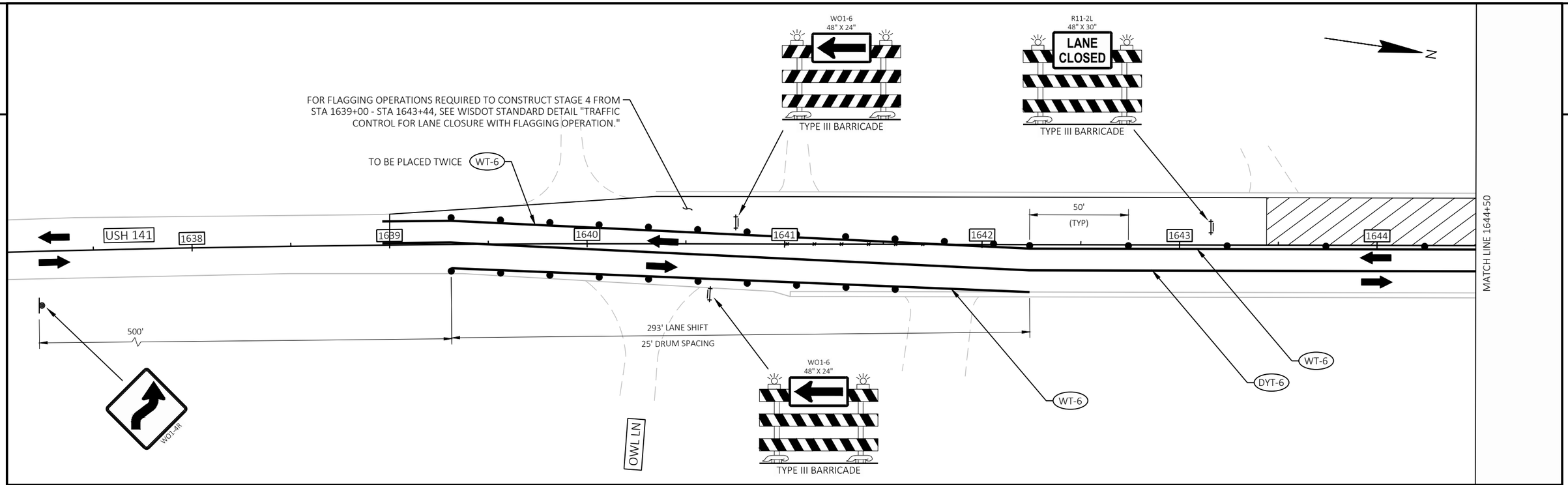
W-6	PAINT 6-INCH (WHITE)	YT-6	REMOVABLE TAPE 6-INCH (YELLOW)
DY-6	PAINT 6-INCH (DOUBLE YELLOW)	DYT-6	REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
S-18	STOP LINE 18-INCH (WHITE)	WT-10	REMOVABLE TAPE 10-INCH (WHITE)
WT-6	REMOVABLE TAPE 6-INCH (WHITE)	ST-18	STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

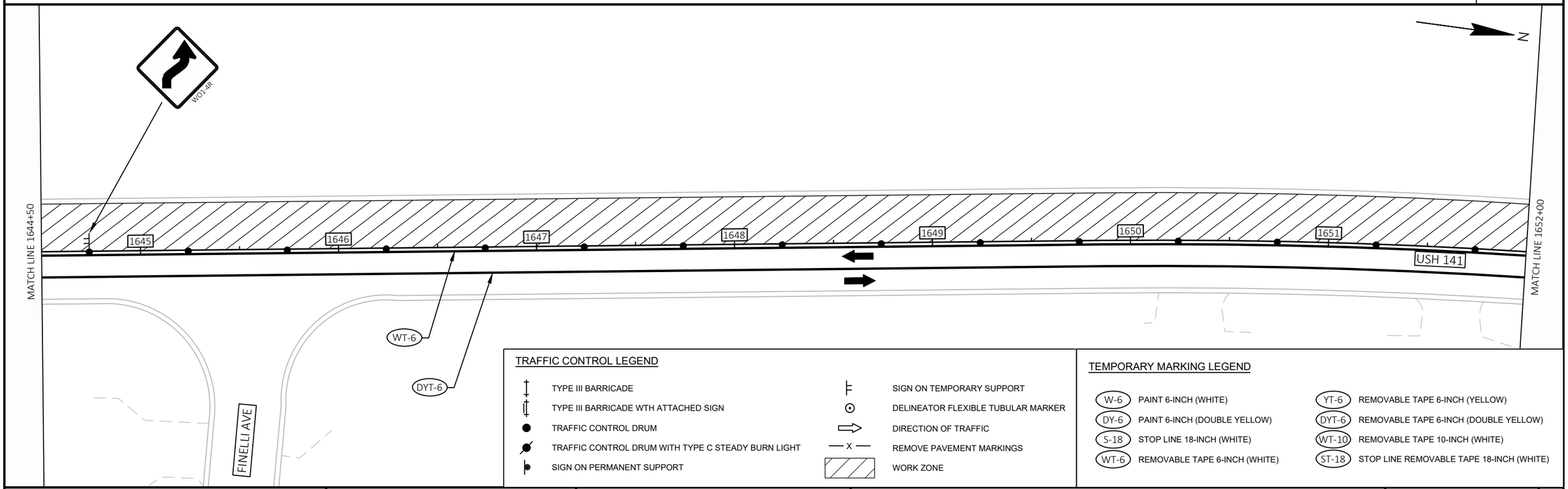
PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 3 CTH W CLOSURE	SHEET 68	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025107-TC3.DWG
LAYOUT NAME - 025107-tc3

PLOT DATE : 10/21/2024 5:16 PM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42





TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

TEMPORARY MARKING LEGEND

W-6	PAINT 6-INCH (WHITE)	YT-6	REMOVABLE TAPE 6-INCH (YELLOW)
DY-6	PAINT 6-INCH (DOUBLE YELLOW)	DYT-6	REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
S-18	STOP LINE 18-INCH (WHITE)	WT-10	REMOVABLE TAPE 10-INCH (WHITE)
WT-6	REMOVABLE TAPE 6-INCH (WHITE)	ST-18	STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 4	SHEET 69	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC4.DWG
LAYOUT NAME - 025101-tc4
PLOT DATE : 10/21/2024 5:27 PM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

N

50'
(TYP)

MATCH LINE 1652+00

1653 1654 1655 1656 1657 1658 1659

USH 141

MATCH LINE 1659+50

WT-6

DYT-6

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

TEMPORARY MARKING LEGEND

W-6	PAINT 6-INCH (WHITE)	YT-6	REMOVABLE TAPE 6-INCH (YELLOW)
DY-6	PAINT 6-INCH (DOUBLE YELLOW)	DYT-6	REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
S-18	STOP LINE 18-INCH (WHITE)	WT-10	REMOVABLE TAPE 10-INCH (WHITE)
WT-6	REMOVABLE TAPE 6-INCH (WHITE)	ST-18	STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

N

MATCH LINE 1659+50

1660 1661 1662 1663 1664 1665 1666

USH 141

MATCH LINE 1667+00

POST

DESCHANE AVE

WT-6

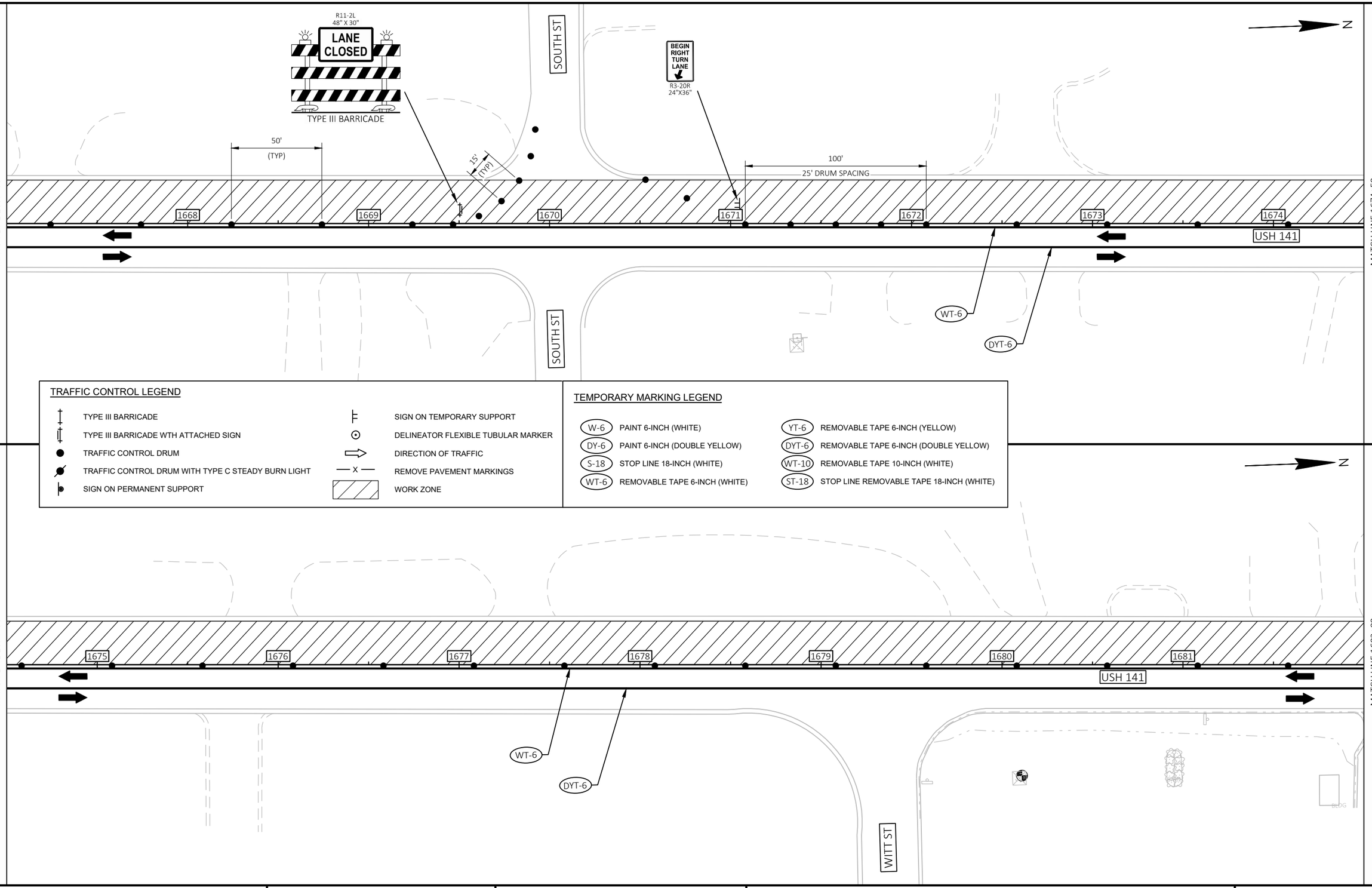
DYT-6

SIGN

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 4	SHEET 70	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC4.DWG
LAYOUT NAME - 025102-tc4

PLOT DATE : 10/21/2024 5:27 PM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

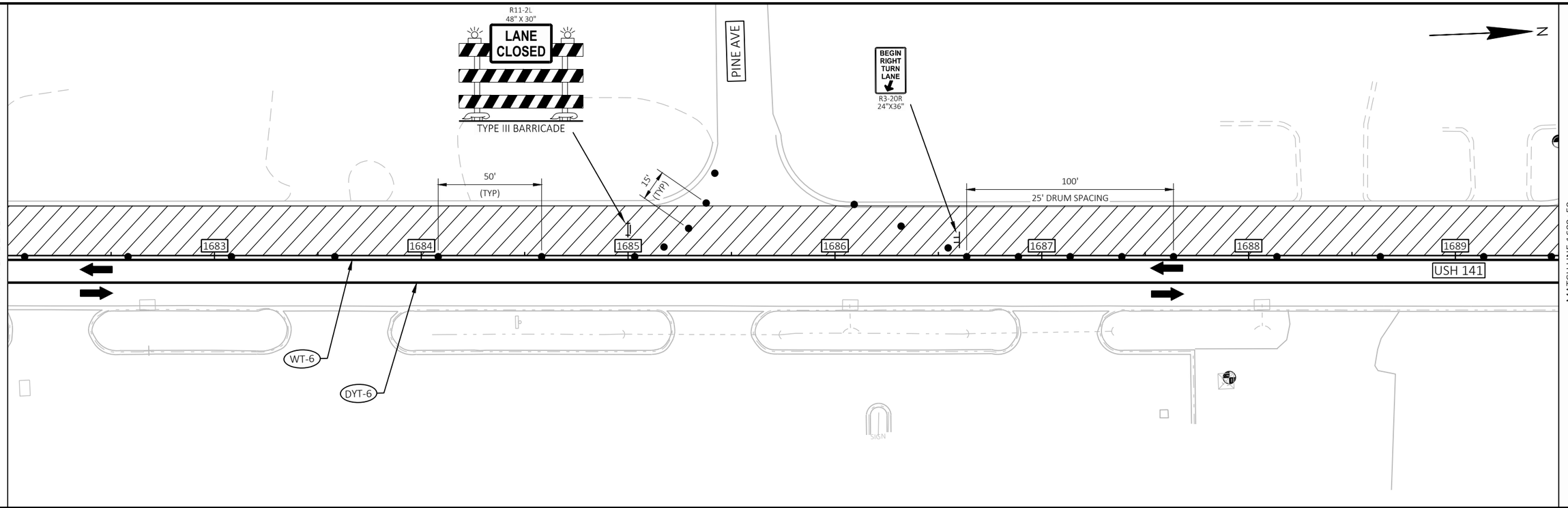


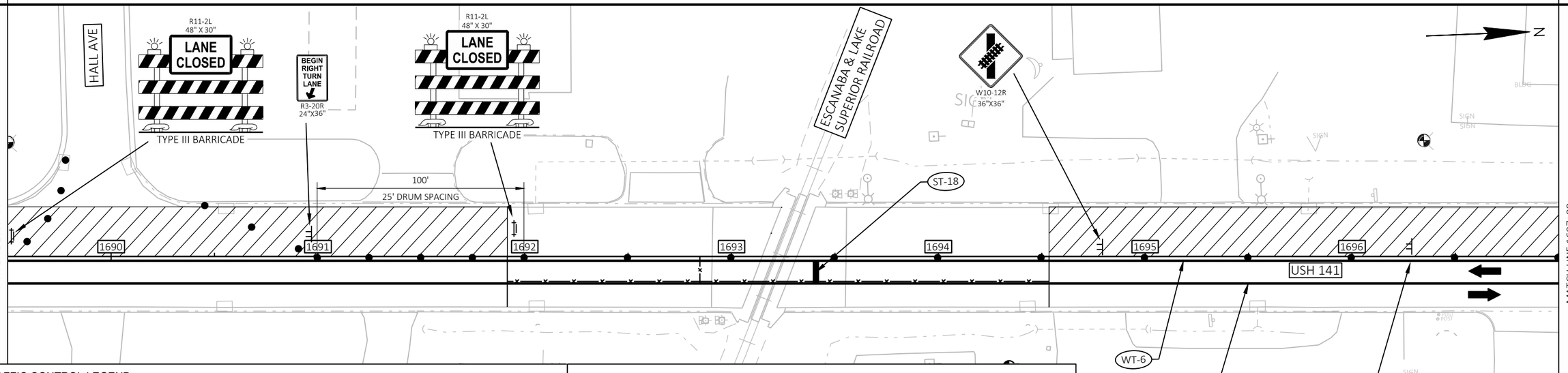
PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 4	SHEET 71	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC4.DWG
LAYOUT NAME - 025103-tc4

PLOT DATE : 10/21/2024 5:27 PM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

2





TRAFFIC CONTROL LEGEND

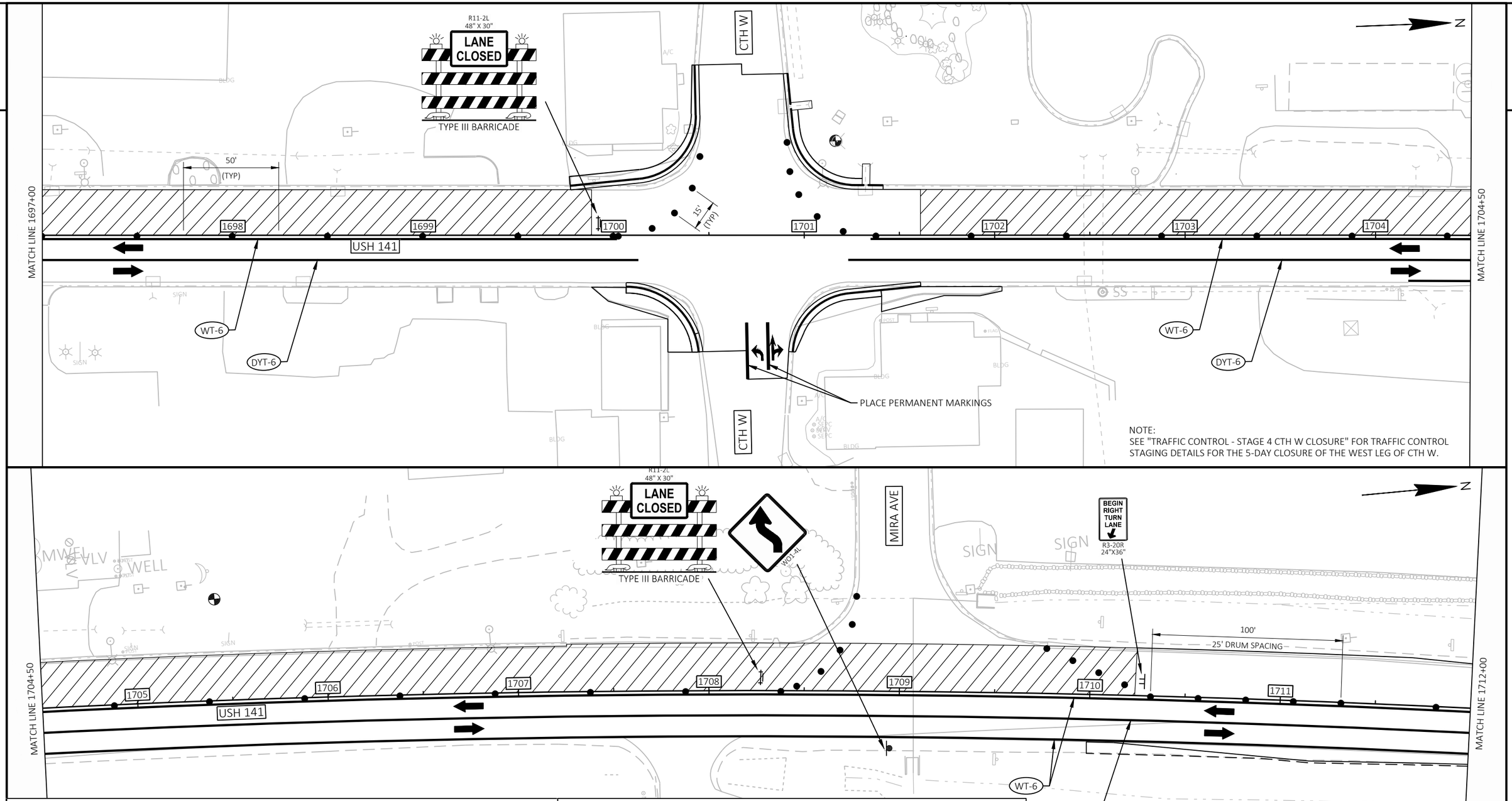
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

TEMPORARY MARKING LEGEND

W-6	PAINT 6-INCH (WHITE)	YT-6	REMOVABLE TAPE 6-INCH (YELLOW)
DY-6	PAINT 6-INCH (DOUBLE YELLOW)	DYT-6	REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
S-18	STOP LINE 18-INCH (WHITE)	WT-10	REMOVABLE TAPE 10-INCH (WHITE)
WT-6	REMOVABLE TAPE 6-INCH (WHITE)	ST-18	STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 4	SHEET 72	E

2



2

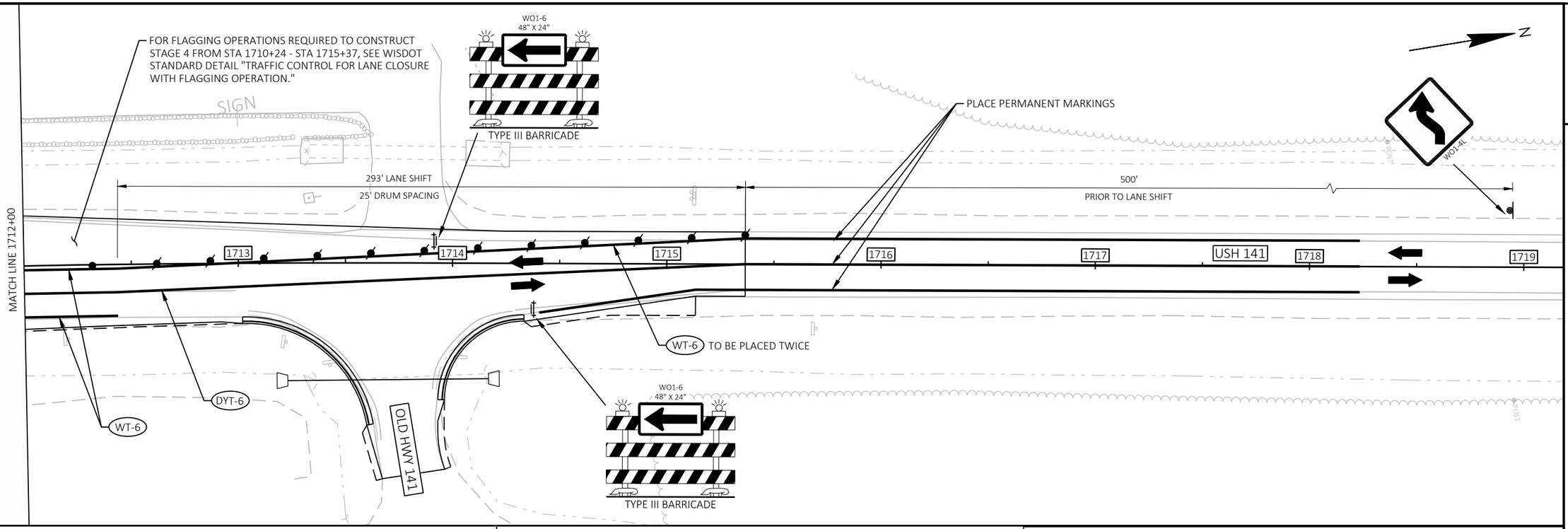
TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

TEMPORARY MARKING LEGEND

- W-6 PAINT 6-INCH (WHITE)
- DY-6 PAINT 6-INCH (DOUBLE YELLOW)
- S-18 STOP LINE 18-INCH (WHITE)
- WT-6 REMOVABLE TAPE 6-INCH (WHITE)
- YT-6 REMOVABLE TAPE 6-INCH (YELLOW)
- DYT-6 REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
- WT-10 REMOVABLE TAPE 10-INCH (WHITE)
- ST-18 STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 4	SHEET 73	E



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

TEMPORARY MARKING LEGEND

W-6	PAINT 6-INCH (WHITE)	YT-6	REMOVABLE TAPE 6-INCH (YELLOW)
DY-6	PAINT 6-INCH (DOUBLE YELLOW)	DYT-6	REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
S-18	STOP LINE 18-INCH (WHITE)	WT-10	REMOVABLE TAPE 10-INCH (WHITE)
WT-6	REMOVABLE TAPE 6-INCH (WHITE)	ST-18	STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 4	SHEET 74	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC4.DWG
LAYOUT NAME - 025106-tc4
PLOT DATE : 10/21/2024 5:27 PM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE

NOTES:
1. REMOVE OR COVER CONFLICTING ADVANCED WARNING SIGNS FROM PREVIOUS STAGES.
2. CONFLICTING WAYFINDING SIGNS NOT SHOWN ON PLANS TO BE REMOVED OR MODIFIED BY THE VILLAGE OF CRIVITZ.

* ALREADY IN-PLACE

(APPROX. STA 1705+49)

Lake Noquebay County Park

MODIFY

WT-6 *

DYT-6 *

USH 141

1703

1702

1701

1700

1699

R3-1
24"X24"

M06-1L
21"X21"

MODIFY

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

PERMANENT MARKINGS *

LEFT LANE MUST TURN LEFT
R3-7L
30"X30"

MODIFY

CTH W

57 'CW' | 58 'CW' | 59 'CW' | 60 'CW' | 61 'CW' | 62 'CW' | 63 'CW' | 64 'CW'

R11-4
60" X 30"
ROAD CLOSED TO THRU TRAFFIC

TYPE III BARRICADE

PLACE AT INTERSECTION OF CTH W AND DYER STREET

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

PERMANENT MARKINGS *

MODIFY

R3-2
24"X24"

MO6-1R
21"X21"

*

WT-6 *

DYT-6 *

ROAD CLOSED 500 FT W20-3D

PLACE 500' PRIOR TO BARRICADE AT DYER STREET

ROAD CLOSED 1000 FT W20-3C

PLACE 500' PRIOR TO W20-3D SIGN

ROAD CLOSED AHEAD W20-3A

PLACE 500' PRIOR TO W20-3C SIGN

ROAD CLOSED 500 FT W20-3D

PLACE 500' PRIOR TO USH 141

ROAD CLOSED 1000 FT W20-3C

PLACE 500' PRIOR TO W20-3D SIGN

ROAD CLOSED AHEAD W20-3A

PLACE 500' PRIOR TO W20-3C SIGN

REMOVE OR COVER

MODIFY

Business Center

Lake Noquebay County Park

(APPROX. STA 1694+25)

TEMPORARY MARKING LEGEND

W-6	PAINT 6-INCH (WHITE)	YT-6	REMOVABLE TAPE 6-INCH (YELLOW)
DY-6	PAINT 6-INCH (DOUBLE YELLOW)	DYT-6	REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
S-18	STOP LINE 18-INCH (WHITE)	WT-10	REMOVABLE TAPE 10-INCH (WHITE)
WT-6	REMOVABLE TAPE 6-INCH (WHITE)	ST-18	STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 4 CTH W CLOSURE	SHEET 75	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025107-TC4.DWG
LAYOUT NAME - 025107-tc4

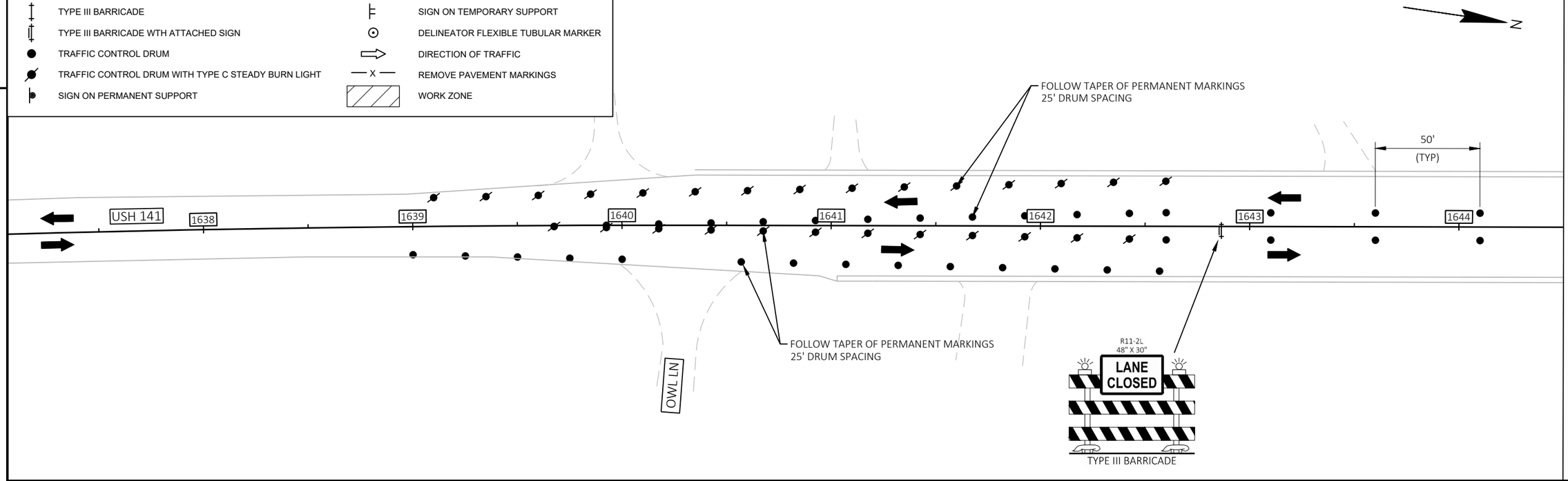
PLOT DATE : 10/21/2024 5:27 PM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

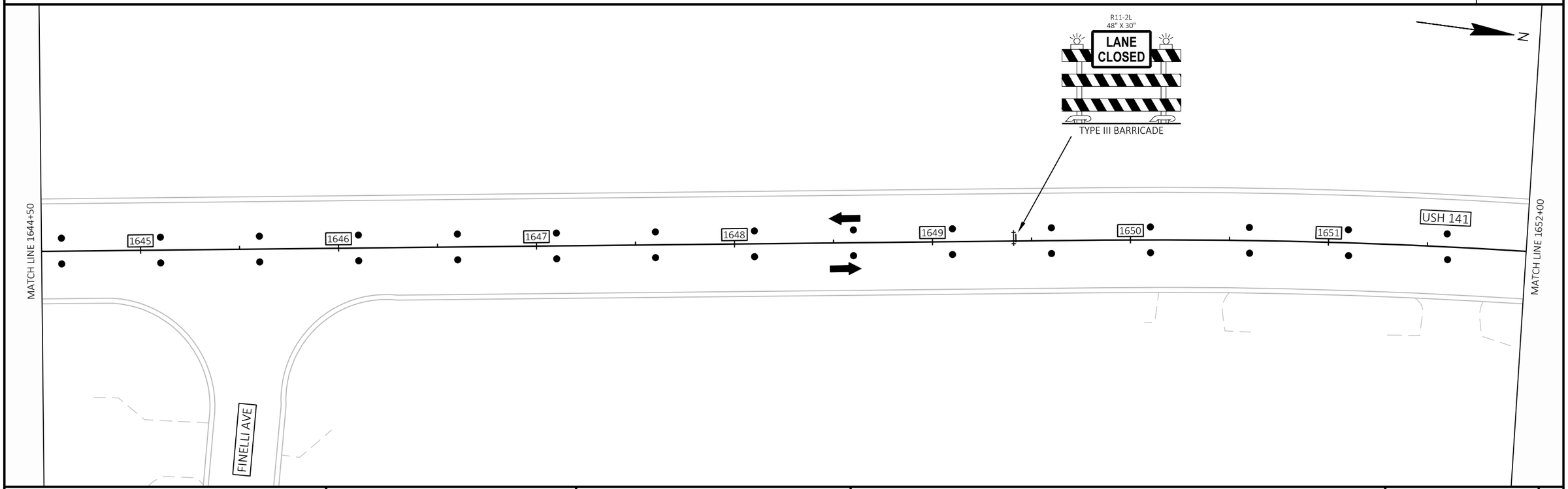
WISDOT/CADDS SHEET 42

2

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE





PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 5	SHEET 76	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC5.DWG
LAYOUT NAME - 025101-tc5

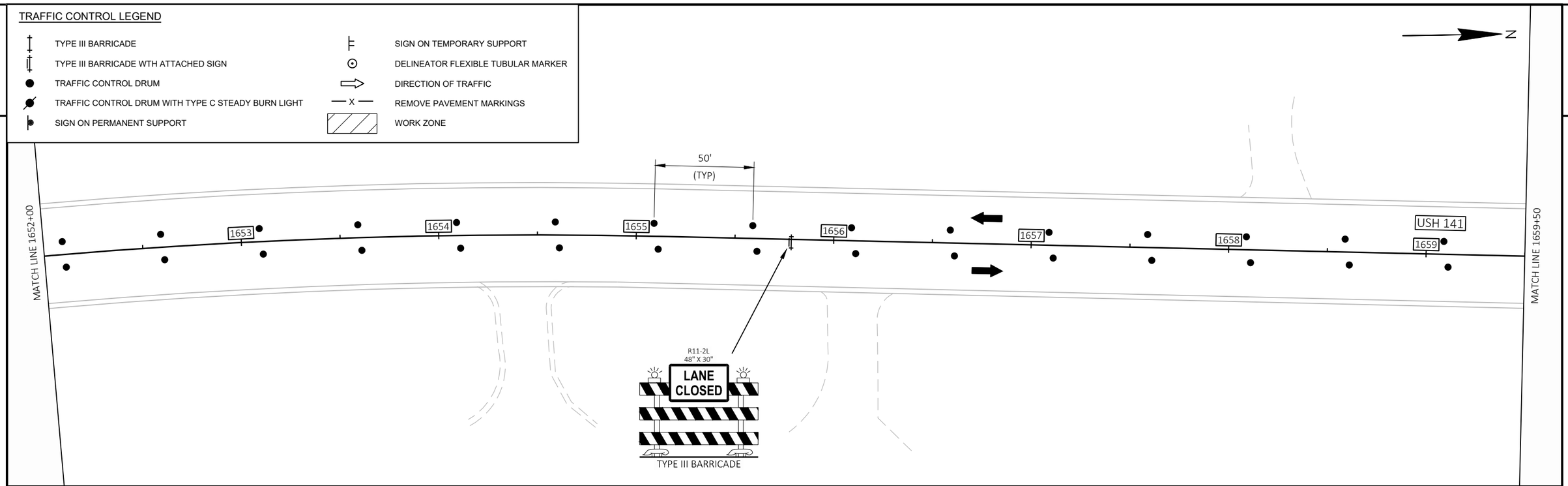
PLOT DATE : 10/21/2024 5:29 PM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

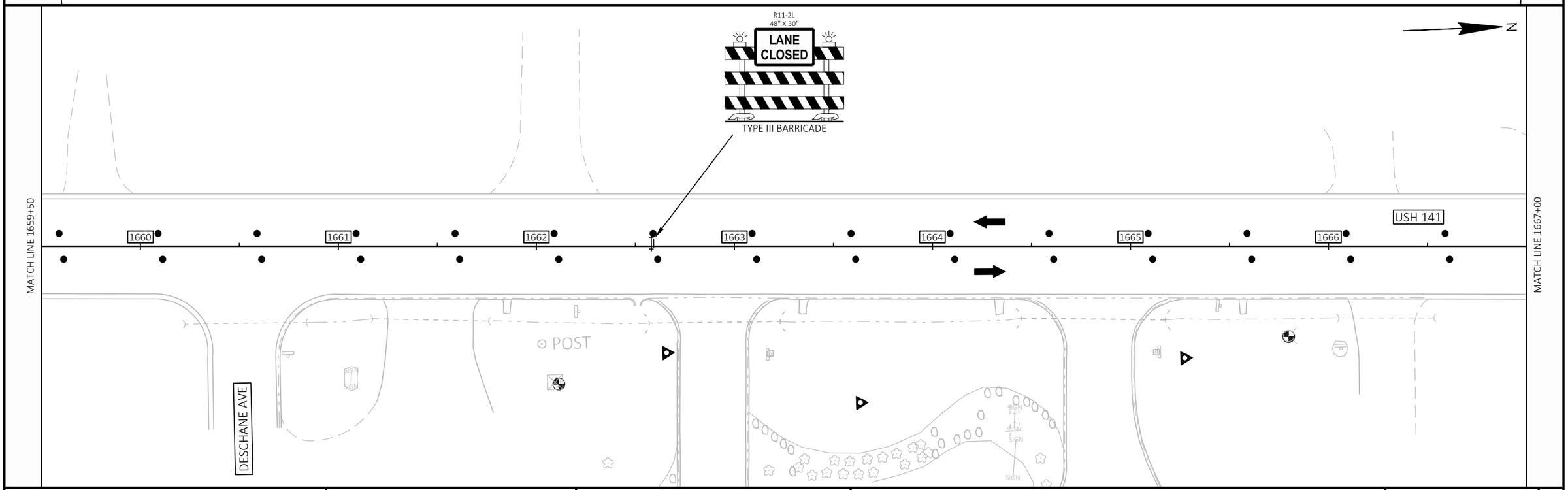
WISDOT/CADDS SHEET 44

2

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE





PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 5	SHEET 77	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC5.DWG
LAYOUT NAME - 025102-tc5

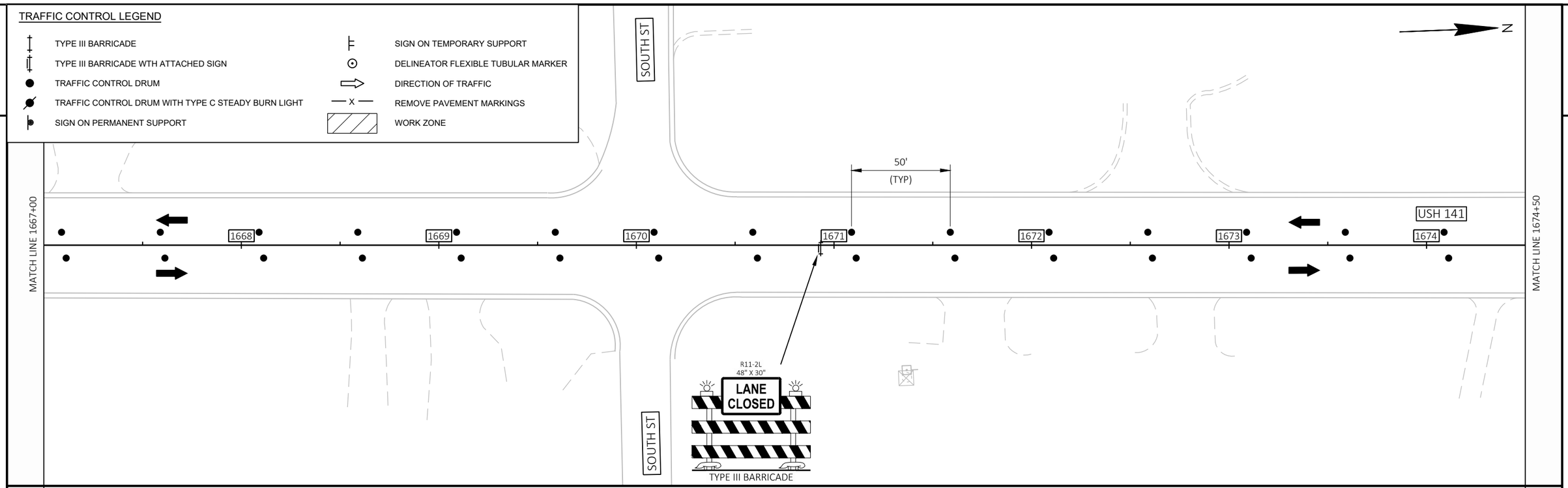
PLOT DATE : 10/21/2024 5:29 PM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

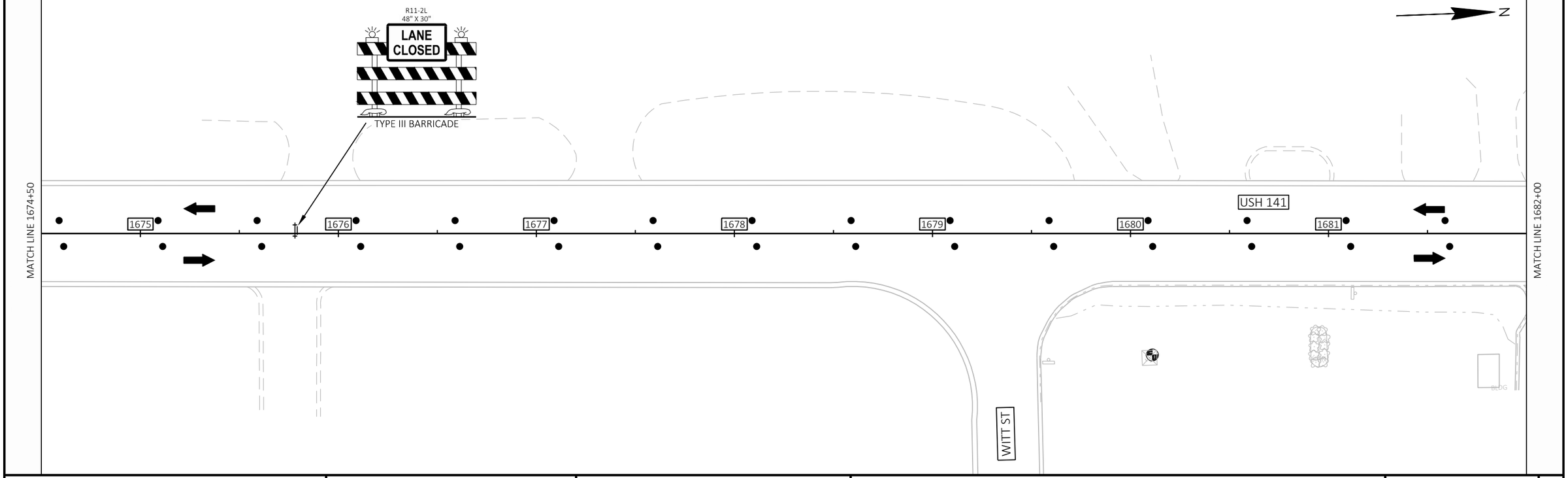
WISDOT/CADDS SHEET 44

2

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE





2

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 5	SHEET 78	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC5.DWG
LAYOUT NAME - 025103-tc5

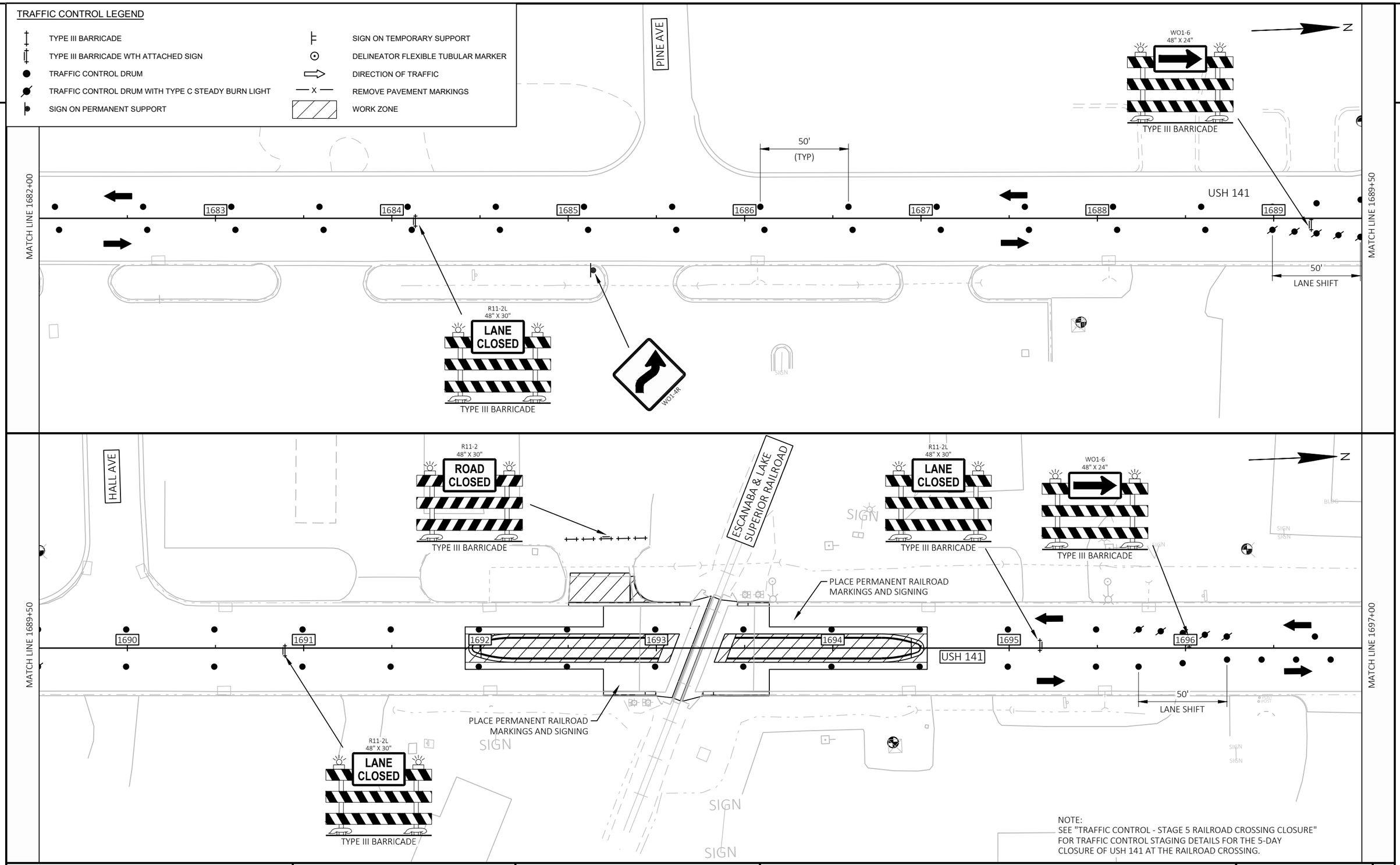
PLOT DATE : 10/21/2024 5:30 PM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE TUBULAR MARKER
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKINGS
- WORK ZONE



NOTE:
SEE "TRAFFIC CONTROL - STAGE 5 RAILROAD CROSSING CLOSURE" FOR TRAFFIC CONTROL STAGING DETAILS FOR THE 5-DAY CLOSURE OF USH 141 AT THE RAILROAD CROSSING.

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 5	SHEET 79	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC5.DWG
LAYOUT NAME - 025104-tc5

PLOT DATE : 10/21/2024 5:30 PM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

MATCH LINE 1697+00

CTH W

PLACE PERMANENT MARKING

W01-4R

15'
(TYP)

PLACE PERMANENT MARKING

FOLLOW TAPER OF PERMANENT MARKINGS
25' DRUM SPACING

1698 1699 1700 1701 1702 1703 1704

USH 141

PLACE PERMANENT MARKING

FOLLOW TAPER OF PERMANENT MARKINGS
25' DRUM SPACING

CTH W

PERMANENT MARKINGS IN
PLACE FROM PREVIOUS STAGE

MATCH LINE 1704+50

2

MIRA AVE

R11-2L
48" X 30"
LANE
CLOSED

TYPE III BARRICADE

FOLLOW TAPER OF PERMANENT MARKINGS
25' DRUM SPACING

50'
(TYP)

USH 141

1705 1706 1707 1708 1709 1710 1711

FOLLOW TAPER OF PERMANENT MARKINGS
25' DRUM SPACING

PLACE PERMANENT MARKING

MATCH LINE 1704+50

MATCH LINE 1712+00

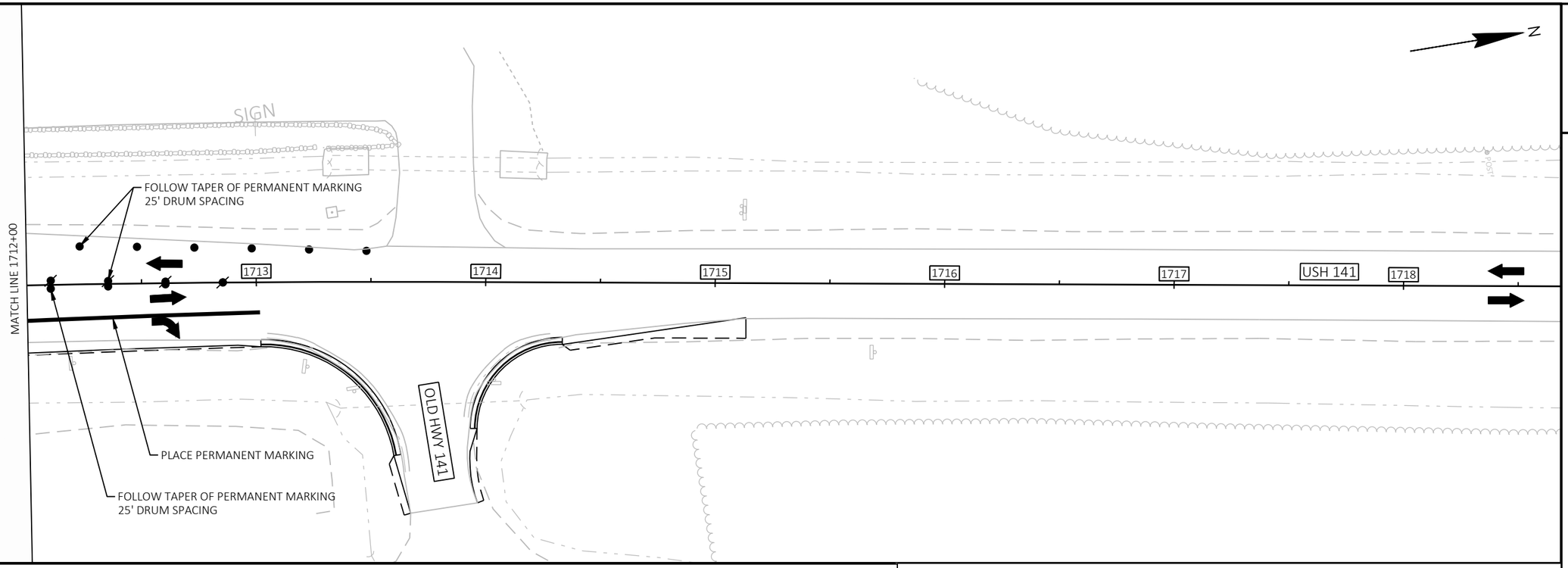
TRAFFIC CONTROL LEGEND

TYPE III BARRICADE	SIGN ON TEMPORARY SUPPORT
TYPE III BARRICADE WTH ATTACHED SIGN	DELINEATOR FLEXIBLE TUBULAR MARKER
TRAFFIC CONTROL DRUM	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	REMOVE PAVEMENT MARKINGS
SIGN ON PERMANENT SUPPORT	WORK ZONE

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 5	SHEET 80	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025101-TC5.DWG
LAYOUT NAME - 025105-tc5

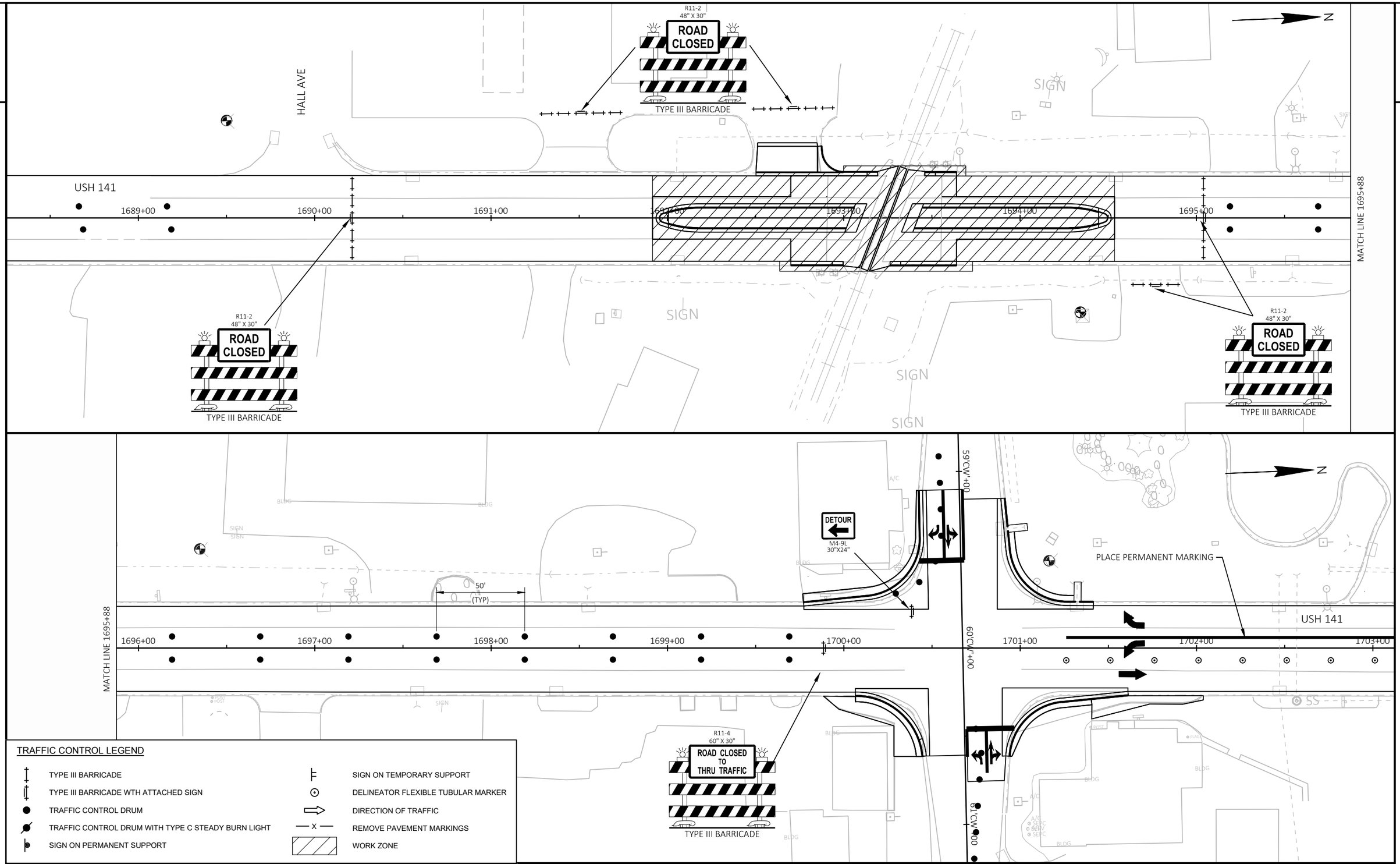
PLOT DATE : 10/21/2024 5:30 PM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:50 FT



2

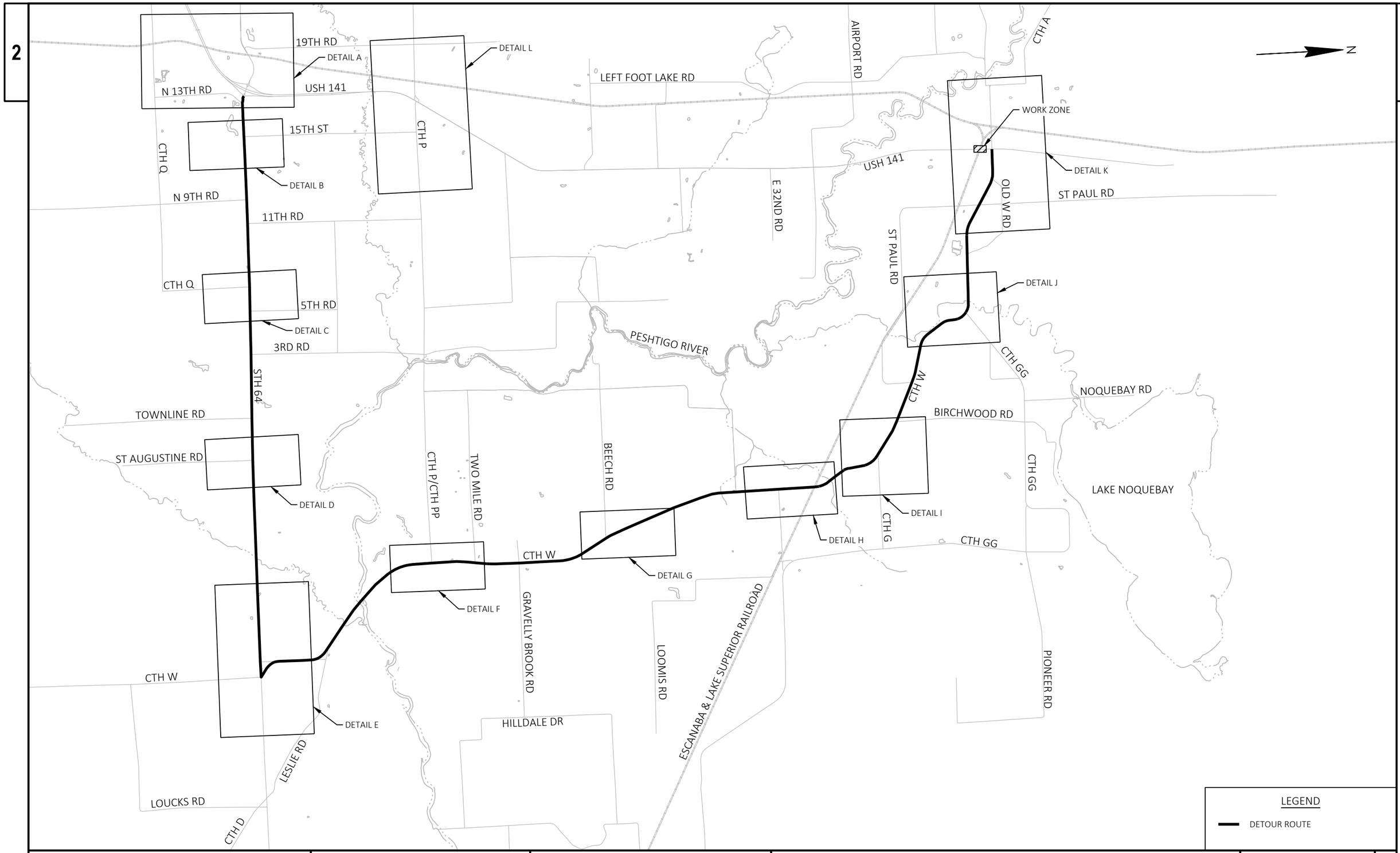
TRAFFIC CONTROL LEGEND

TYPE III BARRICADE	SIGN ON TEMPORARY SUPPORT
TYPE III BARRICADE WTH ATTACHED SIGN	DELINEATOR FLEXIBLE TUBULAR MARKER
TRAFFIC CONTROL DRUM	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	REMOVE PAVEMENT MARKINGS
SIGN ON PERMANENT SUPPORT	WORK ZONE



PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	TRAFFIC CONTROL - STAGE 5 RAILROAD CROSSING CLOSURE	SHEET 82	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\025107-TC5.DWG
LAYOUT NAME - 025107-tc5
PLOT DATE : 6/17/2024 8:08 AM
PLOT BY : ERICSON, SARAH L
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	DETOUR SIGNING OVERVIEW	SHEET 83	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\027002-DT.DWG
LAYOUT NAME - 027001-dt
PLOT DATE : 10/30/2024 2:32 PM
PLOT BY : SMITH, JENNIFER B
PLOT NAME :
PLOT SCALE : 1 IN:1 MI
WISDOT/CADDS SHEET 42

2

DETAIL A

CTH CP/BUS 141

19TH RD

USH 141

STH 64

2ND RD

ALPINE RD

N 13TH RD

CTH Q

N

1
2
FMS
HWY 141 CLOSED
NO ACCESS
THRU CRIVITZ
FOLLOW DETOUR
132" X 72"

3
4
DETOUR AHEAD
W20-2A
48"X48"

5
6
DETOUR
M4-8
36"X18"
NORTH
M3-1
36"X18"
141
M1-4
36"X36"
MO5-2R
30"X30"

7
8
DETOUR
M4-8
36"X18"
NORTH
M3-1
36"X18"
141
M1-4
36"X36"
MO5-2R
30"X30"

9
DETOUR
M4-8
36"X18"
NORTH
M3-1
36"X18"
141
M1-4
36"X36"
MO6-2R
30"X30"

10
DETOUR
M4-8
24"X12"
NORTH
M3-1
24"X12"
141
M1-4
24"X24"
MO5-1R
21"X21"

11
DETOUR
M4-8
24"X12"
NORTH
M3-1
24"X12"
141
M1-4
24"X24"
MO6-2R
21"X21"

12
M4-8
24"X12"
DETOUR

A4-12
14"X14"
141 North
64 East
D2-2
COVER

NORTH
M3-1
24"X12"
141
M1-4
24"X24"

14
DETOUR AHEAD
W20-2A
48"X48"

15
North
141
D1-1
COVER

16
R11-3
60" X 30"
ROAD CLOSED
TO THRU TRAFFIC
8 1/2 MILES AHEAD
TYPE III BARRICADE
141
M1-4
24"X24"
MO6-1R
21"X21"

17
DETOUR
M4-8
24"X12"
NORTH
M3-1
24"X12"
141
M1-4
24"X24"

LEGEND

XX SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE WITH SIGN

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	DETOUR SIGNING DETAILS	SHEET 84	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\027001-DT.DWG
LAYOUT NAME - 027001-dt

PLOT DATE : 10/30/2024 2:24 PM PLOT BY : SMITH, JENNIFER B PLOT NAME : PLOT SCALE : 1:600

2

DETAIL B

N

15TH ST

M4-8A
24"X18"

END DETOUR

141

MODIFY

19

STH 64

18

South West

141

64

North

141

Iron Mountain

D1-62
MODIFY

DETAIL C

N

5TH RD

DETOUR
M4-8
24"X12"

SOUTH
M3-3
24"X12"

141
M1-4
24"X24"

MO6-1
21"X21"

20

STH 64

21

DETOUR
M4-8
24"X12"

NORTH
M3-1
24"X12"

141
M1-4
24"X24"

MO6-1
21"X21"

CTH Q

DETAIL D

N

2

DETOUR
M4-8
24"X12"

SOUTH
M3-3
24"X12"

141
M1-4
24"X24"

MO6-1
21"X21"

22

STH 64

23

DETOUR
M4-8
24"X12"

NORTH
M3-1
24"X12"

141
M1-4
24"X24"

MO6-1
21"X21"

ST AUGUSTINE RD

LEGEND

XX — SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE WITH SIGN

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	DETOUR SIGNING DETAILS	SHEET 85	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\027001-DT.DWG
LAYOUT NAME - 027002-dt

PLOT DATE : 10/30/2024 2:24 PM PLOT BY : SMITH, JENNIFER B PLOT NAME : PLOT SCALE : 1:600

WISDOT/CADDS SHEET 42

2

DETAIL E

N

CTH W

MAPLE LN

FLEISCHFRESSER LN

24
DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
141 M1-4 24"X24"
MO5-1L 21"X21"

34
DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
141 M1-4 24"X24"
MO5-1R 21"X21"

33
DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
141 M1-4 24"X24"

27
DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
141 M1-4 24"X24"
MO6-1L 21"X21"

25
DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
141 M1-4 24"X24"

32
DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
141 M1-4 24"X24"
MO6-1R 21"X21"

31
DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
141 M1-4 24"X24"
MO6-1L 21"X21"

26
DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
141 M1-4 24"X24"

28
DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
141 M1-4 24"X24"
MO6-1R 21"X21"

29
DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
141 M1-4 24"X24"
MO5-1R 21"X21"

30
NORTH M3-1 24"X12"
141 M1-4 24"X24"
DETOUR AHEAD W20-2A 48"X48"

LEGEND

XX SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE WITH SIGN

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	DETOUR SIGNING DETAILS	SHEET 86	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\027001-DT.DWG
LAYOUT NAME - 027003-dt

PLOT DATE : 10/30/2024 2:24 PM PLOT BY : SMITH, JENNIFER B PLOT NAME : PLOT SCALE : 1:600

WISDOT/CADDS SHEET 42

2

DETAIL F

N

TWO MILE RD

SCHOOL LN

CTH P/CTH PP

CTH W

36

DETOUR
M4-8
24"X12"

NORTH
M3-1
24"X12"

141
M1-4
24"X24"

MO6-1
21"X21"

35

DETOUR
M4-8
24"X12"

SOUTH
M3-3
24"X12"

141
M1-4
24"X24"

MO6-1
21"X21"

DETAIL G

N

CTH W

DETOUR
M4-8
24"X12"

NORTH
M3-1
24"X12"

141
M1-4
24"X24"

MO6-1
21"X21"

38

BEECH RD

37

DETOUR
M4-8
24"X12"

SOUTH
M3-3
24"X12"

141
M1-4
24"X24"

MO6-1
21"X21"

DETAIL H

N

PETERMAN BROOK

FERNWOOD LN

ESCANABA AND LAKE SUPERIOR RAILROAD

CTH W

LOOMIS RD

39

DETOUR
M4-8
24"X12"

SOUTH
M3-3
24"X12"

141
M1-4
24"X24"

MO6-1
21"X21"

40

DETOUR
M4-8
24"X12"

NORTH
M3-1
24"X12"

141
M1-4
24"X24"

MO6-1
21"X21"

2

LEGEND

XX — SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE WITH SIGN

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	DETOUR SIGNING DETAILS	SHEET 87	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\027001-DT.DWG
LAYOUT NAME - 027004-dt

PLOT DATE : 10/30/2024 2:25 PM PLOT BY : SMITH, JENNIFER B PLOT NAME : PLOT SCALE : 1:600

WISDOT/CADDS SHEET 42

2

DETAIL I

N

BIRCHWOOD RD

CTH W

CTH G

ESCANABA AND LAKE SUPERIOR RAILROAD

DETOUR
M4-8
24"X12"
NORTH
M3-1
24"X12"
141
M1-4
24"X24"
MO6-1
21"X21"

42

41

DETOUR
M4-8
24"X12"
SOUTH
M3-3
24"X12"
141
M1-4
24"X24"
MO6-1
21"X21"

DETAIL J

N

DETOUR
M4-8
24"X12"
NORTH
M3-1
24"X12"
141
M1-4
24"X24"
MO6-1
21"X21"

44

CTH GG

CTH W

MAZOR LN

43

DETOUR
M4-8
24"X12"
SOUTH
M3-3
24"X12"
141
M1-4
24"X24"
MO6-1
21"X21"

PESHTIGO RIVER

CTH W

OUTLET RD

ESCANABA AND LAKE SUPERIOR RAILROAD

LEGEND

XX — SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE WITH SIGN

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	DETOUR SIGNING DETAILS	SHEET 88	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\027001-DT.DWG
LAYOUT NAME - 027005-dt

PLOT DATE : 10/30/2024 2:25 PM PLOT BY : SMITH, JENNIFER B PLOT NAME : PLOT SCALE : 1:600

2

DETAIL K

OLD HWY 41

ST PAUL RD

OLD W RD

CTH W

WOLF ST

HATTIE ST

RICHLEN AVE

MIRA AVE

DYER ST

HALL AVE

PINE AVE

USH 141

N OAK ST

WITT ST

ESCANABA & LAKE SUPERIOR RAILROAD

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
141 M1-4 24"X24"
MO5-1L 21"X21"

HWY 141 CLOSED
NO ACCESS
THRU CRIVITZ
FOLLOW DETOUR
78"X48"
FMS

DETOUR AHEAD W20-2A 48"X48"

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
141 M1-4 24"X24"
MO6-1 21"X21"

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
141 M1-4 24"X24"
MO6-1L 21"X21"

COUNTY A | COUNTY W | 141
MODIFY
MO6-1R 21"X21"

M4-8A 24"X18"
END DETOUR
JCT 141
MODIFY

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
141 M1-4 24"X24"

DETOUR AHEAD W20-2A 48"X48"

R11-4 60" X 30"
ROAD CLOSED TO THRU TRAFFIC
DETOUR
TYPE III BARRICADE M4-9L 30"X24"

PCMS

PCMS

53 54 52 51 50 47 45 55 56 48 49 46 57 58

LEGEND

XX SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE WITH SIGN

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	DETOUR SIGNING DETAILS	SHEET 89	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\027001-DT.DWG
LAYOUT NAME - 027006-dt

PLOT DATE : 10/30/2024 2:25 PM PLOT BY : SMITH, JENNIFER B PLOT NAME : PLOT SCALE : 1:600

2

2

DETAIL L

N

19TH RD

ESCANABA AND LAKE SUPERIOR RAILROAD

17TH RD

USH 141

13TH RD

R11-3
60" X 30"
ROAD CLOSED
TO THRU TRAFFIC
6 1/2 MILES AHEAD

59

TYPE III BARRICADE

CTH P

CTH P

15TH RD

LEGEND

XX SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE WITH SIGN

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	DETOUR SIGNING DETAILS	SHEET 90	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\027001-DT.DWG
LAYOUT NAME - 027007-dt

PLOT DATE : 10/30/2024 2:25 PM PLOT BY : SMITH, JENNIFER B PLOT NAME : PLOT SCALE : 1:600

WISDOT/CADDS SHEET 42

2

2

N

BEGIN PROJECT
STA 1639+00.00
Y=191,318.658
X=709,495.446

STA 1640+32.89 R/L USH 141 =
STA 10'O'+00.00 R/L Owl Lane
Y=191,450.037
X=709,475.468

EFS/RC: 1640+19.00
LC: 1640+94.00
BNC: 1641+69.00

STA 1645+58.58 R/L USH 141 =
STA 10'F'+00.00 R/L Finnelli Ave
Y=191,970.268
X=709,399.934

ENC: 1648+57.00
LC: 1649+17.00
RC: 1649+77.00
BFS: 1650+22.00

CURVE 2
PI STA = 1652+50.88
Y = 192655.386
X = 709300.465
DELTA = 10°31'32"
D = 2°00'00"
T = 263.88'
L = 526.28'
R = 2864.79'
PC STA = 1649+87.00
Y = 192394.242
X = 709338.379
PT STA = 1655+13.28
Y = 192919.063
X = 709310.893
BK = N08°15'39"W
AH = N02°15'53"E
SE MAX = 3.5%

EFS: 1654+78.00
RC: 1655+23.00
LC: 1655+83.00
BNC: 1656+43.00

STA 1660+51.78 R/L USH 141 =
STA 10'D'+00.00 R/L Deschane Ave
Y=193,457.150
X=709,332.175

MATCH LINE 1666+50

N8°15'39"W
1640
1645
1650
1655
1660
1665
USH 141
N2°15'53"E

PT: 1640+43.57
BP: 10'O'+00.00
N86°00'03"E
EP: 11'O'+50.00
OWL LN

N84°39'31"E
PC: 10'F'+92.71
PT: 11'F'+05.22
N88°14'40"E
EP: 13'F'+00.00
FINNELLI LN

BP: 10'F'+00.00

CURVE "F"
PI STA = 10'F'+98.97
Y = 191979.481
X = 709498.471
DELTA = 3°35'09"
D = 28°38'52"
T = 6.26'
L = 12.52'
R = 200.00'
PC STA = 10'F'+92.71
Y = 191978.898
X = 709492.237
PT STA = 11'F'+05.22
Y = 191979.673
X = 709504.728
BK = N84°39'31"E
AH = N88°14'40"E

PC: 1649+87.00
PT: 1655+13.28

BP: 10'D'+00.00
N2°15'52"E
PT: 13'D'+88.85
DESCHANE AVE
EP: 13'D'+00.00

CURVE 1
PI STA = 1635+74.32
Y = 190995.703
X = 709541.425
DELTA = 4°41'42"
D = 0°30'00"
T = 469.78'
L = 939.03'
R = 11459.16'
PC STA = 1631+04.54
Y = 190537.886
X = 709646.749
PT STA = 1640+43.57
Y = 191460.605
X = 709473.929
BK = N12°57'21"W
AH = N08°15'39"W
SE MAX = RC

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	ALIGNMENT DIAGRAM	SHEET 91	E

2

N

MATCH LINE 1666+50

MATCH LINE 1697+00

BP: 20'S'+00.00

S88°58'29"E

STA 1670+02.46 R/L USH 141 =
STA 25'S'+00.00 R/L South Ave
Y=194,407.087
X=709,369.744

USH 141

1670

N2°15'53"E

1680

STA 1679+32.88 R/L USH 141 =
STA 22'W'+00.00 R/L Witt Ave
Y=195,336.778
X=709,406.513

BP: 22'W'+00.00

N90°00'00"E

WITT AVE

EP: 24'W'+00.00

SOUTH AVE

EP: 30'S'+00.00

BP: 10'P'+00.00

S89°03'06"E

PINE AVE

EP: 15'P'+00.00

1685

STA 1685+57.43 R/L USH 141 =
STA 15'P'+00.00 R/L Pine Ave
Y=195,960.839
X=709,431.195

BP: 20'H'+00.00

S89°10'05"E

HALL AVE

EP: 25'H'+00.00

1690

STA 1689+93.82 R/L USH 141 =
STA 25'H'+00.00 R/L Hall Ave
Y=196,396.885
X=709,448.440

1695

STA 1693+20 TO 1693+26
ESCANABA & LAKE SUPERIOR RAILROAD CROSSING

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	ALIGNMENT DIAGRAM	SHEET 92	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\027201-AD.DWG
LAYOUT NAME - 027202-ad
PLOT DATE : 12/13/2023 1:36 PM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

N

CTH W

S88°44'32"E

55 'CW'

PI: 58'CW'+17.16

S88°58'07"E

STA 1700+67.41 R/L USH 141 =
STA 60'CW'+00.00 R/L CTH W
Y=197,469.648
X=709,490.754

MATCH LINE 1697+00

1700

N2°15'53"E

ENC: 1703+06.00

LC: 1703+70.00

BFS/RC: 1704+34.00

1705

USH 141

PC: 1704+12.84

PI: 60'CW'+66.51

S88°56'38"E

CTH W

65 'CW'

EP: 68'CW'+50.90

STA 1708+96.96 R/L USH 141 =
STA 3'M'+00.00 R/L Mira Ave
Y=198,297.615
X=709,538.960

EP: 3'M'+00.00

BP: 0'M'+15.00

S85°04'37"E

MIRA AVE

1710

STA 1713+78.46 R/L USH 141 =
STA 10'OH'+00.00 R/L Old Hwy 141
Y=198,774.690
X=709,603.475

PT: 1713+78.46

EFS/RC: 1713+57.00

LC: 1714+21.00

BNC: 1714+85.00

1715

END PROJECT
STA 1715+36.64
Y=198,930.698
X=709,629.601

N9°30'25"E

1720

BP: 10'OH'+00.00

S80°29'35"E

PC: 10'OH'+79.43

PCC: 11'OH'+24.99

PT: 12'OH'+07.75

N15°40'37"E

EP: 13'OH'+00.26

CURVE "OH" 1

CURVE "OH" 2

OLD HWY 141

CURVE 3
PI STA = 1708+96.29
Y = 198297.877
X = 709523.624
DELTA = 7°14'31"
D = 0°45'00"
T = 483.45'
L = 965.62'
R = 7639.50'
PC STA = 1704+12.84
Y = 197814.803
X = 709504.519
PT STA = 1713+78.46
Y = 198774.690
X = 709603.475
BK = N02°15'53"E
AH = N09°30'25"E
SE MAX = RC

CURVE "OH" 1
PI STA = 11'OH'+03.93
Y = 198757.524
X = 709705.978
DELTA = 52°13'06"
D = 114°35'30"
T = 24.50'
L = 45.57'
R = 50.00'
PC STA = 10'OH'+79.43
Y = 198761.571
X = 709681.809
PT STA = 11'OH'+24.99
Y = 198774.146
X = 709723.983
BK = S80°29'35"E
AH = N47°17'19"E
SE MAX = RC

CURVE "OH" 2
PI STA = 11'OH'+67.46
Y = 198802.948
X = 709755.183
DELTA = 31°36'42"
D = 38°11'50"
T = 42.46'
L = 82.76'
R = 150.00'
PC STA = 11'OH'+24.99
Y = 198774.146
X = 709723.983
PT STA = 12'OH'+07.75
Y = 198843.831
X = 709766.657
BK = N47°17'19"E
AH = N15°40'37"E
SE MAX = RC

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	ALIGNMENT DIAGRAM	SHEET 93	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\027201-AD.DWG
LAYOUT NAME - 027203-ad
PLOT DATE : 12/13/2023 1:36 PM
PLOT BY : DANA, SHARON T
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

Estimate Of Quantities

1490-40-71

Line	Item	Item Description	Unit	Total	Qty
0002	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000
0004	204.0100	Removing Concrete Pavement	SY	645.000	645.000
0006	204.0110	Removing Asphaltic Surface	SY	8.000	8.000
0008	204.0115	Removing Asphaltic Surface Butt Joints	SY	28.000	28.000
0010	204.0120	Removing Asphaltic Surface Milling	SY	39,710.000	39,710.000
0012	204.0130	Removing Curb	LF	230.000	230.000
0014	204.0150	Removing Curb & Gutter	LF	825.000	825.000
0016	204.0195	Removing Concrete Bases	EACH	9.000	9.000
0018	204.0220	Removing Inlets	EACH	24.000	24.000
0020	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	288.000	288.000
0022	204.9060.S	Removing (item description) 01. Business Sign	EACH	1.000	1.000
0024	205.0100	Excavation Common	CY	1,252.000	1,252.000
0026	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	80.000	80.000
0028	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 1490-40-71	EACH	1.000	1.000
0030	213.0100	Finishing Roadway (project) 01. 1490-40-71	EACH	1.000	1.000
0032	305.0110	Base Aggregate Dense 3/4-Inch	TON	105.000	105.000
0034	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,020.000	2,020.000
0036	305.0500	Shaping Shoulders	STA	20.000	20.000
0038	405.0100	Coloring Concrete WisDOT Red	CY	18.000	18.000
0040	416.0610	Drilled Tie Bars	EACH	145.000	145.000
0042	450.4000	HMA Cold Weather Paving	TON	3,255.000	3,255.000
0044	455.0605	Tack Coat	GAL	2,900.000	2,900.000
0046	460.2000	Incentive Density HMA Pavement	DOL	3,160.000	3,160.000
0048	460.6224	HMA Pavement 4 MT 58-28 S	TON	5,000.000	5,000.000
0050	465.0105	Asphaltic Surface	TON	65.000	65.000
0052	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	1.000	1.000
0054	465.0315	Asphaltic Flumes	SY	130.000	130.000
0056	520.8000	Concrete Collars for Pipe	EACH	2.000	2.000
0058	520.8700	Cleaning Culvert Pipes	EACH	3.000	3.000
0060	521.1242	Apron Endwalls for Pipe Arch Steel 42x29-Inch	EACH	1.000	1.000
0062	521.3742	Pipe Arch Corrugated Steel 42x29-Inch	LF	16.000	16.000
0064	522.0424	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	94.000	94.000
0066	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0068	524.0630	Apron Endwalls for Culvert Pipe Salvaged 30-Inch	EACH	1.000	1.000
0070	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	20.000	20.000
0072	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	275.000	275.000
0074	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	145.000	145.000
0076	602.0810	Concrete Driveway 6-Inch	SY	60.000	60.000
0078	618.0100	Maintenance and Repair of Haul Roads (project) 01. 1490-40-71	EACH	1.000	1.000
0080	619.1000	Mobilization	EACH	1.000	1.000
0082	624.0100	Water	MGAL	21.000	21.000
0084	625.0500	Salvaged Topsoil	SY	2,470.000	2,470.000
0086	627.0200	Mulching	SY	415.000	415.000
0088	628.1504	Silt Fence	LF	775.000	775.000
0090	628.1520	Silt Fence Maintenance	LF	775.000	775.000
0092	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
0094	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0096	628.2008	Erosion Mat Urban Class I Type B	SY	2,470.000	2,470.000
0098	628.7015	Inlet Protection Type C	EACH	15.000	15.000

Estimate Of Quantities

1490-40-71

Line	Item	Item Description	Unit	Total	Qty
0100	628.7504	Temporary Ditch Checks	LF	275.000	275.000
0102	628.7555	Culvert Pipe Checks	EACH	15.000	15.000
0104	628.7570	Rock Bags	EACH	140.000	140.000
0106	629.0210	Fertilizer Type B	CWT	1.500	1.500
0108	630.0130	Seeding Mixture No. 30	LB	38.000	38.000
0110	630.0160	Seeding Mixture No. 60	LB	3.000	3.000
0112	630.0200	Seeding Temporary	LB	12.000	12.000
0114	630.0500	Seed Water	MGAL	57.000	57.000
0116	631.0300	Sod Water	MGAL	6.500	6.500
0118	631.1100	Sod Erosion Control	SY	206.000	206.000
0120	633.5200	Markers Culvert End	EACH	9.000	9.000
0122	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	43.000	43.000
0124	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	16.000	16.000
0126	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	5.000	5.000
0128	637.2210	Signs Type II Reflective H	SF	442.800	442.800
0130	637.2215	Signs Type II Reflective H Folding	SF	20.720	20.720
0132	637.2230	Signs Type II Reflective F	SF	59.700	59.700
0134	638.2602	Removing Signs Type II	EACH	53.000	53.000
0136	638.3000	Removing Small Sign Supports	EACH	52.000	52.000
0138	642.5001	Field Office Type B	EACH	1.000	1.000
0140	643.0300	Traffic Control Drums	DAY	15,091.000	15,091.000
0142	643.0420	Traffic Control Barricades Type III	DAY	1,228.000	1,228.000
0144	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	18.000	18.000
0146	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	18.000	18.000
0148	643.0705	Traffic Control Warning Lights Type A	DAY	1,784.000	1,784.000
0150	643.0715	Traffic Control Warning Lights Type C	DAY	992.000	992.000
0152	643.0900	Traffic Control Signs	DAY	3,188.000	3,188.000
0154	643.0920	Traffic Control Covering Signs Type II	EACH	18.000	18.000
0156	643.1000	Traffic Control Signs Fixed Message	SF	158.000	158.000
0158	643.1050	Traffic Control Signs PCMS	DAY	56.000	56.000
0160	643.3165	Temporary Marking Line Paint 6-Inch	LF	22,245.000	22,245.000
0162	643.3180	Temporary Marking Line Removable Tape 6-Inch	LF	26,715.000	26,715.000
0164	643.3280	Temporary Marking Line Removable Tape 10-Inch	LF	40.000	40.000
0166	643.3805	Temporary Marking Stop Line Paint 18-Inch	LF	11.000	11.000
0168	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	11.000	11.000
0170	643.5000	Traffic Control	EACH	1.000	1.000
0172	645.0140	Geotextile Type SAS	SY	150.000	150.000
0174	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	35,210.000	35,210.000
0176	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	990.000	990.000
0178	646.5020	Marking Arrow Epoxy	EACH	40.000	40.000
0180	646.5120	Marking Word Epoxy	EACH	2.000	2.000
0182	646.5320	Marking Railroad Crossing Epoxy	EACH	2.000	2.000
0184	646.6120	Marking Stop Line Epoxy 18-Inch	LF	120.000	120.000
0186	646.6466	Cold Weather Marking Epoxy 6-Inch	LF	35,210.000	35,210.000
0188	646.6470	Cold Weather Marking Epoxy 10-Inch	LF	990.000	990.000
0190	646.7120	Marking Diagonal Epoxy 12-Inch	LF	310.000	310.000
0192	646.8120	Marking Curb Epoxy	LF	90.000	90.000
0194	646.8220	Marking Island Nose Epoxy	EACH	2.000	2.000
0196	646.9000	Marking Removal Line 4-Inch	LF	4,030.000	4,030.000

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Line	Item	Item Description	Unit	Total	Qty
0198	646.9200	Marking Removal Line Wide	LF	95.000	95.000
0200	646.9300	Marking Removal Special Marking	EACH	1.000	1.000
0202	650.4500	Construction Staking Subgrade	LF	880.000	880.000
0204	650.5000	Construction Staking Base	LF	880.000	880.000
0206	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	1,065.000	1,065.000
0208	650.6000	Construction Staking Pipe Culverts	EACH	3.000	3.000
0210	650.8000	Construction Staking Resurfacing Reference	LF	7,630.000	7,630.000
0212	650.8501	Construction Staking Electrical Installations (project) 01. 1490-40-71	EACH	1.000	1.000
0214	650.9911	Construction Staking Supplemental Control (project) 01. 1490-40-71	EACH	1.000	1.000
0216	650.9920	Construction Staking Slope Stakes	LF	770.000	770.000
0218	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	390.000	390.000
0220	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	195.000	195.000
0222	652.0605	Conduit Special 2-Inch	LF	270.000	270.000
0224	652.0615	Conduit Special 3-Inch	LF	630.000	630.000
0226	652.0800	Conduit Loop Detector	LF	966.000	966.000
0228	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	10.000	10.000
0230	653.0905	Removing Pull Boxes	EACH	12.000	12.000
0232	654.0101	Concrete Bases Type 1	EACH	4.000	4.000
0234	654.0110	Concrete Bases Type 10	EACH	2.000	2.000
0236	654.0120	Concrete Bases Type 10-Special	EACH	2.000	2.000
0238	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	1.000	1.000
0240	655.0230	Cable Traffic Signal 5-14 AWG	LF	831.000	831.000
0242	655.0240	Cable Traffic Signal 7-14 AWG	LF	214.000	214.000
0244	655.0260	Cable Traffic Signal 12-14 AWG	LF	1,003.000	1,003.000
0246	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	938.000	938.000
0248	655.0700	Loop Detector Lead In Cable	LF	1,774.000	1,774.000
0250	655.0800	Loop Detector Wire	LF	2,630.000	2,630.000
0252	656.0201	Electrical Service Meter Breaker Pedestal (location) 01. S38-0492 Temporary	EACH	1.000	1.000
0254	657.0100	Pedestal Bases	EACH	4.000	4.000
0256	657.0345	Poles Type 9	EACH	2.000	2.000
0258	657.0347	Poles Type 9-Special	EACH	2.000	2.000
0260	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	2.000	2.000
0262	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	2.000	2.000
0264	657.0525	Monotube Arms 25-FT	EACH	1.000	1.000
0266	657.0530	Monotube Arms 30-FT	EACH	1.000	1.000
0268	657.0541	Monotube Arms 40-FT-Special	EACH	2.000	2.000
0270	658.0173	Traffic Signal Face 3S 12-Inch	EACH	12.000	12.000
0272	658.0174	Traffic Signal Face 4S 12-Inch	EACH	4.000	4.000
0274	658.5070	Signal Mounting Hardware (location) 01. S38-0492 Temporary	EACH	1.000	1.000
0276	658.5070	Signal Mounting Hardware (location) 02. S38-0492 Future	EACH	1.000	1.000
0278	659.5000.S	Lamp, Ballast, LED, Switch Disposal by Contractor	EACH	36.000	36.000
0280	690.0150	Sawing Asphalt	LF	1,605.000	1,605.000
0282	690.0250	Sawing Concrete	LF	610.000	610.000
0284	740.0440	Incentive IRI Ride	DOL	16,900.000	16,900.000
0286	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	600.000	600.000
0288	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,200.000	1,200.000
0290	SPV.0060	Special 01. Inlet Adjustment Ring Replacement	EACH	2.000	2.000
0292	SPV.0060	Special 02. Remove Traffic Signal (USH 141 & CTH W)	EACH	1.000	1.000
0294	SPV.0060	Special 03. Utility Line Opening (ULO)	EACH	5.000	5.000

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Line	Item	Item Description	Unit	Total	Qty
0296	SPV.0060	Special 04. Temporary Traffic Signal (USH 141 & CTH W)	EACH	1.000	1.000
0298	SPV.0090	Special 01. Concrete Curb & Gutter SHES 30-Inch Type D	LF	900.000	900.000
0300	SPV.0165	Special 01. Concrete Median Sloped Nose SHES	SF	320.000	320.000
0302	SPV.0180	Special 01. Concrete Truck Apron SHES 12-Inch	SY	57.000	57.000

REMOVING SMALL PIPE CULVERTS

STATION	DIR	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	REMARKS
CATEGORY 0010				
STAGE 2				
1702+57	LT	USH 141	1	42x29-INCH CPCS
		STAGE 2 TOTAL	1	
STAGE 3				
10+53'OH'	RT/LT	OLD HWY 141	1	24-INCH CPCS
		STAGE 3 TOTAL	1	
		PROJECT TOTALS	**2**	

MISCELLANEOUS REMOVALS

STATION	DIR	LOCATION	204.9060.S.01 REMOVING BUSINESS SIGN EACH
CATEGORY 0010			
STAGE 2			
1700+31	LT	CTH W SW QUADRANT	1
		PROJECT TOTALS	**1**

REMOVING CONCRETE PAVEMENT

STATION TO STATION			DIR	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY
CATEGORY 0010					
STAGE 5					
1691+92	-	1692+39	RT/LT	USH 141	125
1692+50	-	1693+15	RT/LT	USH 141	220
1693+32	-	1693+55	RT/LT	USH 141	145
1693+95	-	1694+54	RT/LT	USH 141	155
			PROJECT TOTALS		**645**

REMOVING CURB & GUTTER

STATION TO STATION			DIR	LOCATION	204.0130 REMOVING CURB LF	204.0150 REMOVING CURB & GUTTER LF
CATEGORY 0010						
STAGE 2						
1667+83	-	1667+93	RT	USH 141	---	10
1668+84	-	1668+94	LT	USH 141	---	10
1669+33	-	1669+43	RT	USH 141	---	10
1670+51	-	1670+61	RT	USH 141	---	10
1670+53	-	1670+63	LT	USH 141	---	10
1676+17	-	1676+27	LT	USH 141	---	10
1676+20	-	1676+30	RT	USH 141	---	10
1679+14	-	1679+24	LT	USH 141	---	10
1686+02	-	1686+12	RT	USH 141	---	10
1686+02	-	1686+12	LT	USH 141	---	10
1688+02	-	1688+12	RT	USH 141	---	10
1688+02	-	1688+12	LT	USH 141	---	10
1690+50	-	1690+60	RT	USH 141	---	10
1692+01	-	1692+11	RT	USH 141	---	10
1694+49	-	1694+59	RT	USH 141	---	10
1694+49	-	1694+59	LT	USH 141	---	10
1695+50	-	1695+60	RT	USH 141	---	10
1695+74	-	1695+84	LT	USH 141	---	10
1696+99	-	1697+09	LT	USH 141	---	10
1697+53	-	1697+63	RT	USH 141	---	10
1698+49	-	1698+59	LT	USH 141	---	10
1700+84	-	1700+94	LT	USH 141	---	10
1701+26	-	1701+36	LT	USH 141	---	10
1702+42	-	1702+64	LT	USH 141	---	25
1702+42	-	1702+52	RT	USH 141	---	10
1704+15	-	1704+25	LT	USH 141	---	10
				STAGE 2 TOTAL	0	275
STAGE 3						
10+25	-	10+82	RT	OLD HWY 141	---	90
10+22	-	10+59	LT	OLD HWY 141	---	60
CTH W NE QUADRANT				CTH W	110	90
CTH W SE QUADRANT				CTH W	50	60
				STAGE 3 TOTAL	160	300
STAGE 4						
CTH W NW QUADRANT				CTH W	---	95
CTH W SW QUADRANT				CTH W	70	115
				STAGE 4 TOTAL	70	210
STAGE 5						
1692+70	-	1692+91	RT	USH 141	---	20
1693+55	-	1693+64	RT	USH 141	---	10
1693+55	-	1693+64	LT	USH 141	---	10
				STAGE 5 TOTAL	0	40
				PROJECT TOTALS	**230**	**825**

REMOVING INLETS AND STORM SEWER

STATION	DIR	LOCATION	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER 12-INCH LF
CATEGORY 0010				
STAGE 2				
1667+88	RT	USH 141	1	12
1668+89	LT	USH 141	1	12
1669+38	RT	USH 141	1	12
1670+56	RT	USH 141	1	12
1670+58	LT	USH 141	1	12
1676+22	LT	USH 141	1	12
1676+25	RT	USH 141	1	12
1679+19	LT	USH 141	1	12
1686+07	RT	USH 141	1	12
1686+07	LT	USH 141	1	12
1688+07	RT	USH 141	1	12
1688+07	LT	USH 141	1	12
1690+55	RT	USH 141	1	12
1692+06	RT	USH 141	1	12
1694+54	RT	USH 141	1	12
1694+54	LT	USH 141	1	12
1695+55	RT	USH 141	1	12
1695+79	LT	USH 141	1	12
1697+04	LT	USH 141	1	12
1697+58	RT	USH 141	1	12
1698+54	LT	USH 141	1	12
1700+89	LT	USH 141	1	12
1701+31	LT	USH 141	1	12
1704+20	LT	USH 141	1	12
		PROJECT TOTALS	**24**	**288**

CONTAMINATED SOIL

STATION	TO STATION		DIR	LOCATION	205.0501.S EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAIMINATED SOIL TON
CATEGORY 0010					
STAGE 3					
1699+50	-	1700+75	0' - 45' RT	USH 141	5
1700+23	-	1700+75	45' - 61' RT	USH 141	68
1700+75	-	1701+25	0' - 45' RT	USH 141	7
			PROJECT TOTALS		**80**

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EARTHWORK SUMMARY

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	EBS EXCAVATION (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (4)	UNEXPANDED FILL	EXPANDED FILL FACTOR 1.25	MASS ORDINATE +/- (5)	WASTE
CATEGORY 0010										
STAGE 2										
	1667+88 - 1704+20	USH 141, FLUMES	7	0	7	0	0	0	0	0
	1702+42 - 1702+64	USH 141, INLET ADJUSTMENT RING REPLACEMENT	3	0	1	2	0	0	2	2
	1702+42 - 1705+52	USH 141, INLET ADJUSTMENT RING REPLACEMENT	1	0	1	0	0	0	0	0
		STAGE 2 SUBTOTAL	11	0	9	2	0	0	2	2
STAGE 3										
	1710+00 - 1715+14	USH 141	473	0	99	374	61	76	298	298
	10+50'OH' - 10+98'OH'	OLD HWY 141	116	0	24	92	35	44	48	48
		CTH W NE QUADRENT	37	0	16	21	0	0	21	21
		CTH W SE QUADRENT	35	0	16	19	0	0	19	19
		STAGE 3 SUBTOTAL	661	0	154	507	96	120	387	387
STAGE 4										
		CTH W NW QUADRENT	52	0	16	36	0	0	36	36
		CTH W SW QUADRENT	39	0	19	20	0	0	20	20
		STAGE 4 SUBTOTAL	91	0	35	56	0	0	56	
STAGE 5										
1691+92-1694+54		USH 141, RAILROAD XING	489	0	348	141	0	0	141	141
		STAGE 5 SUBTOTAL	489	0	348	141	0	0	141	
		PROJECT TOTALS	**1,252**	**0**	**546**	**706**	**96**	**120**	**586**	**388**
		TOTAL COMMON EXCAVATION	**1,252**							

NOTES:

(1) COMMON EXCAVATION 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 SELECT BORROW MATERIAL. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL.

(4) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(5) 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.

BASE COURSE

STATION TO STATION	DIR	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0500 SHAPING SHOULDERS STA	624.0100 WATER MGAL
CATEGORY 0010					
STAGE 3					
1639+00 - 1641+20	RT	---	---	3	---
1704+17 - 1709+99	RT	---	---	6	---
1715+13 - 1715+37	RT	---	---	1	---
OLD HWY 141 TURN LANE		60	860	---	9.2
CTH W NE QUADRANT		---	80	---	0.8
CTH W SE QUADRANT		---	60	---	0.6
UNDISTRIBUTED		24	---	---	0.1
STAGE 3 TOTALS		84	1,000	10	10.7
STAGE 4					
1639+00 - 1640+35	LT	---	---	2	---
1707+26 - 1708+37	LT	---	---	2	---
1709+77 - 1713+58	LT	---	---	4	---
1714+08 - 1715+37	LT	---	---	2	---
CTH W NW QUADRANT		---	60	---	0.6
CTH W SW QUADRANT		---	70	---	0.7
UNDISTRIBUTED		21	---	---	0.1
STAGE 4 TOTALS		21	130	10	1.4
STAGE 5					
1691+92 - 1693+20	RT/LT	---	450	---	4.5
1693+26 - 1694+54	RT/LT	---	420	---	4.2
DRIVEWAY	LT	---	20	---	0.2
STAGE 5 TOTALS		0	890	0	8.9
PROJECT TOTALS		**105**	**2,020**	**20**	**21**

CONCRETE TRUCK APRON

STATION	DIR	LOCATION	405.0100 COLORING CONCRETE WISDOT RED CY	SPV.0180.01 CONCRETE TRUCK APRON SHES 12-INCH SY
CATEGORY 0010				
STAGE 3				
NE QUADRANT		CTH W	6	19
SE QUADRANT		CTH W	6	18
STAGE 3 TOTALS			12	37
STAGE 4				
NW QUADRANT		CTH W	2	7
SW QUADRANT		CTH W	4	13
STAGE 4 TOTALS			6	20
PROJECT TOTALS			**18**	**57**

DRILLED TIE BARS

STATION	DIR	LOCATION	416.0610 DRILLED TIE BARS EACH
CATEGORY 0010			
STAGE 2			
1667+88	RT	USH 141	4
1668+89	LT	USH 141	4
1669+38	RT	USH 141	4
1670+56	RT	USH 141	4
1670+58	LT	USH 141	4
1676+22	LT	USH 141	4
1676+25	RT	USH 141	4
1679+19	LT	USH 141	4
1686+07	RT	USH 141	4
1686+07	LT	USH 141	4
1688+07	RT	USH 141	4
1688+07	LT	USH 141	4
1690+55	RT	USH 141	4
1692+06	RT	USH 141	4
1694+54	RT	USH 141	4
1694+54	LT	USH 141	4
1695+55	RT	USH 141	4
1695+79	LT	USH 141	4
1697+04	LT	USH 141	4
1697+58	RT	USH 141	4
1698+54	LT	USH 141	8
1700+89	LT	USH 141	8
1701+31	LT	USH 141	8
1702+47	LT	USH 141	4
1702+47	RT	USH 141	4
1704+20	LT	USH 141	4
STAGE 2 TOTAL			116
STAGE 3			
NE QUADRANT		CTH W	4
SE QUADRANT		CTH W	2
STAGE 3 TOTALS			6
STAGE 4			
NW QUADRANT		CTH W	4
SW QUADRANT		CTH W	4
STAGE 4 TOTALS			8
STAGE 5			
1692+90	RT	USH 141	2
1692+90	LT	USH 141	2
1693+56	RT	USH 141	2
1693+56	RT	USH 141	2
DWY	LT	USH 141	7
STAGE 5 TOTALS			15
PROJECT TOTALS			**145**

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ASPHALTIC ITEMS

STATION	TO	STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	211.0101.01 PREPARE FOUNDATION FOR ASPHALTIC PAVING 1490-40-71 EACH	455.0605 TACK COAT GAL	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	465.0105 ASPHALTIC SURFACE * TON	450.4000 HMA COLD WEATHER PAVING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTERANCES TON	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF
CATEGORY 0010													
STAGE 3													
1639+00	-	1691+92	USH 141	---	3	13,600	0.25	950	1,560	---	780	---	5,292
1694+54	-	1715+37	USH 141	---	3	5,000	0.25	350	570	---	285	---	2,080
OLD HWY 141 TURN LANE				---	---	---	---	70	250	---	125	---	---
CTH W NE QUADRANT				---	4	120	---	10	30	8	20	---	---
CTH W SE QUADRANT				---	4	90	---	10	20	10	15	---	---
			STAGE 3 TOTAL	0	14	18,810	0.5	1,390	2,430	18	1,225	0	7,372
STAGE 4													
1639+00	-	1691+92	USH 141	---	3	13,700	0.25	960	1,570	---	1,180	---	---
1694+54	-	1715+37	USH 141	---	3	5,200	0.25	360	600	---	450	---	---
CTH W NW QUADRANT			CTH W	---	4	130	---	10	30	---	20	---	---
CTH W SW QUADRANT			CTH W	---	4	160	---	20	40	---	30	---	---
			STAGE 4 TOTAL	0	14	19,190	0.5	1,350	2,240	0	1,680	0	0
STAGE 5													
1691+92	-	1693+04	USH 141	---	---	120	---	10	10	10	20	---	---
1691+92	-	1693+20	USH 141	---	---	980	---	90	190	---	190	---	128
1693+26	-	1694+54	USH 141	---	---	490	---	50	120	---	120	---	130
1693+42	-	1694+54	USH 141	---	---	120	---	10	10	10	20	---	---
DRIVEWAY			USH 141	8	---	---	---	---	---	---	---	1	---
			STAGE 5 TOTAL	8	0	1,710	0	160	330	20	350	1	258
			PROJECT TOTAL	**8**	**28**	**39,710**	**1**	**2,900**	**5,000**	**38**	**3,255**	**1**	**7,630**

* ADDITIONAL QUANTITY SHOWN IN OTHER TABLES

ASPHALTIC FLUMES

STATION	DIR	LOCATION	465.0315 ASPHALTIC FLUMES SY	SPV.0060.01 INLET ADJUSTMENT RING REPLACEMENT EACH	465.0105 ASPHALTIC SURFACE * TON
CATEGORY 0010					
STAGE 2					
1667+88	RT	USH 141	5	---	1
1668+89	LT	USH 141	5	---	1
1669+38	RT	USH 141	5	---	1
1670+56	RT	USH 141	5	---	1
1670+58	LT	USH 141	5	---	1
1676+22	LT	USH 141	5	---	1
1676+25	RT	USH 141	5	---	1
1679+19	LT	USH 141	5	---	1
1686+07	RT	USH 141	5	---	1
1686+07	LT	USH 141	5	---	1
1688+07	RT	USH 141	5	---	1
1688+07	LT	USH 141	5	---	1
1690+55	RT	USH 141	5	---	1
1692+06	RT	USH 141	5	---	1
1694+54	RT	USH 141	5	---	1
1694+54	LT	USH 141	5	---	1
1695+55	RT	USH 141	5	---	1
1695+79	LT	USH 141	5	---	1
1697+04	LT	USH 141	5	---	1
1697+58	RT	USH 141	5	---	1
1698+54	LT	USH 141	5	---	1
1700+89	LT	USH 141	5	---	1
1701+31	LT	USH 141	5	---	1
1702+47	LT	USH 141	---	1	2
1702+47	RT	USH 141	---	1	1
1704+20	LT	USH 141	5	---	1
		STAGE 2 TOTALS	120	2	27
STAGE 4					
59+33	LT	CTH W	5	---	---
59+73	LT	CTH W	5	---	---
		STAGE 4 TOTALS	10	0	0
		PROJECT TOTALS	**130**	**2**	**27**

* ADDITIONAL QUANTITY SHOWN IN OTHER TABLES

GEOTEXTILE

LOCATION	645.0140 GEOTEXTILE TYPE SAS SY
CATEGORY 0010	
STAGE 5	
SOUTH RAILROAD APPROACH	70
NORTH RAILROAD APPROACH	70
UNDISTRIBUTED	10
PROJECT TOTALS	**150**

CONCRETE CURB & GUTTER

STATION TO STATION	DIR	LOCATION	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	SPV.0090.01 CONCRETE CURB & GUTTER SHES 30-INCH TYPE D LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF
CATEGORY 0010							
STAGE 2							
1667+79 - 1667+97	RT	USH 141	---	10	---	---	---
1668+83 - 1668+98	LT	USH 141	---	10	---	---	---
1669+32 - 1669+47	RT	USH 141	---	10	---	---	---
1670+50 - 1670+65	RT	USH 141	---	10	---	---	---
1670+52 - 1670+67	LT	USH 141	---	10	---	---	---
1676+16 - 1676+31	LT	USH 141	---	10	---	---	---
1676+19 - 1676+34	RT	USH 141	---	10	---	---	---
1679+13 - 1679+28	LT	USH 141	---	10	---	---	---
1686+01 - 1686+16	RT	USH 141	---	10	---	---	---
1686+01 - 1686+16	LT	USH 141	---	10	---	---	---
1688+01 - 1688+16	RT	USH 141	---	10	---	---	---
1688+01 - 1688+16	LT	USH 141	---	10	---	---	---
1690+49 - 1690+64	RT	USH 141	---	10	---	---	---
1692+00 - 1692+15	RT	USH 141	---	10	---	---	---
1694+48 - 1694+63	RT	USH 141	---	10	---	---	---
1694+48 - 1694+63	LT	USH 141	---	10	---	---	---
1695+49 - 1695+64	RT	USH 141	---	10	---	---	---
1695+73 - 1695+88	LT	USH 141	---	10	---	---	---
1696+98 - 1697+13	LT	USH 141	---	10	---	---	---
1697+52 - 1697+67	RT	USH 141	---	10	---	---	---
1698+48 - 1698+63	LT	USH 141	---	10	---	---	---
1700+83 - 1700+98	LT	USH 141	---	10	---	---	---
1701+25 - 1701+40	LT	USH 141	---	10	---	---	---
1702+42 - 1702+64	LT	USH 141	---	25	---	---	---
1702+42 - 1702+52	RT	USH 141	---	10	---	---	---
1704+14 - 1704+29	LT	USH 141	---	10	---	---	---
		STAGE 2 TOTALS	0	275	0	0	0
STAGE 3							
10+28 - 10+75	RT	OLD HWY 141	---	---	85	---	85
10+24 - 10+64	LT	OLD HWY 141	---	---	60	---	60
NE QUANDRANT		CTH W	---	---	---	85	85
SE QUADRANT		CTH W	---	---	---	55	55
		STAGE 3 TOTALS	0	0	145	140	285
STAGE 4							
NW QUANDRANT		CTH W	---	---	---	95	95
SW QUADRANT		CTH W	---	---	---	115	115
		STAGE 4 TOTALS	0	0	0	210	210
STAGE 5							
1692+00 - 1693+02	RT	USH 141	---	---	---	100	100
1692+00 - 1693+06	LT	USH 141	---	---	---	105	105
1692+70 - 1693+00	RT	USH 141	---	---	---	30	30
1692+70 - 1693+19	LT	USH 141	---	---	---	50	50
1693+40 - 1694+45	RT	USH 141	---	---	---	105	105
1693+44 - 1694+45	LT	USH 141	---	---	---	100	100
1693+26 - 1693+64	RT	USH 141	---	---	---	40	40
1693+46 - 1693+64	LT	USH 141	---	---	---	20	20
DRIVEWAY	LT	USH 141	20	---	---	---	20
		STAGE 5 TOTALS	20	0	0	550	570
		PROJECT TOTALS	**20**	**275**	**145**	**900**	**1,065**

CLEANING CULVERT PIPES

STATION	DIR	LOCATION	520.8700 CLEANING CULVERT PIPES EACH	REMARKS
CATEGORY 0010				
STAGE 2				
1702+47	LT	USH 141	1	30-INCH CPRC, 72 LF
1702+57	LT	USH 141	1	42X29-INCH CPCS, 72 LF
1704+43	RT	USH 141	1	18-INCH CPCS, 186 LF
		PROJECT TOTALS	**3**	

CONCRETE MEDIAN SLOPED NOSE

STATION	DIR	LOCATION	SPV.0165.01 CONCRETE MEDIAN SLOPED NOSE SHES SF
CATEGORY 0010			
STAGE 5			
1692+00	RT/LT	USH 141	60
1693+05	RT/LT	USH 141	100
1693+40	RT/LT	USH 141	100
1692+75	RT/LT	USH 141	60
		PROJECT TOTALS	**320**

CULVERT PIPE SUMMARY

STATION	DIR	LOCATION	520.8000 CONCRETE COLLARS FOR PIPE EACH	521.1242 APRON ENDWALLS FOR PIPE ARCH STEEL 42X29-INCH EACH	521.3742 PIPE ARCH CORRUGATED STEEL 42X29-INCH LF	522.0424 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	524.0630 APRON ENDWALLS FOR CULVERT PIPE SALVAGED 30-INCH EACH	633.5200 MARKERS CULVERT END EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	REMARKS
CATEGORY 0010											
STAGE 2											
1673+69	RT/LT	USH 141	---	---	---	---	---	---	2	---	36-INCH CPRC
1682+68	LT	USH 141	---	---	---	---	---	---	1	---	36-INCH CPRC
1702+47	LT	USH 141	1	---	---	---	---	1	1	1	30-INCH CPRC
1702+57	LT	USH 141	1	1	16	---	---	---	1	1	42X29-INCH CPCS
1704+43	RT	USH 141	---	---	---	---	---	---	1	---	18-INCH CPCS
1709+05	RT	USH 141	---	---	---	---	---	---	1	---	BOX CULVERT
		STAGE 2 TOTALS	2	1	16	0	0	1	7	2	
STAGE 3											
10+53'OH'	RT/LT	OLD HWY 141	---	---	---	94	2	---	2	1	
		STAGE 3 TOTALS	0	0	0	94	2	0	2	1	
		PROJECT TOTALS	**2**	**1**	**16**	**94**	**2**	**1**	**9**	**3**	

CONCRETE DRIVEWAY

STATION	DIR	LOCATION	602.0810 CONCRETE DRIVEWAY 6-INCH SY
CATEGORY 0010			
STAGE 5			
1692+75	LT	USH 141	60
		PROJECT TOTALS	**60**

LANDSCAPING ITEMS

STATION	TO	STATION	DIR	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIX NO. 30 LB	630.0160 SEEDING MIX NO. 60 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL	631.0300 SOD WATER MGAL	631.1100 SOD EROSION CONTROL SY
CATEGORY 0010														
STAGE 2														
1667+79	-	1667+97	RT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1668+80	-	1668+98	LT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1669+29	-	1669+47	RT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1670+47	-	1670+65	RT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1670+49	-	1670+67	LT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1676+13	-	1676+31	LT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1676+16	-	1676+34	RT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1679+10	-	1679+28	LT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1685+98	-	1686+16	RT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1685+98	-	1686+16	LT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1687+98	-	1688+16	RT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1687+98	-	1688+16	LT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1690+46	-	1690+64	RT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1691+97	-	1692+15	RT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1694+34	-	1694+52	RT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1694+45	-	1694+63	LT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1695+46	-	1695+64	RT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1695+70	-	1695+88	LT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1696+95	-	1697+13	LT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1697+49	-	1697+67	RT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1698+45	-	1698+63	LT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1700+80	-	1700+98	LT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1701+22	-	1701+40	LT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
1702+42	-	1702+64	LT	USH 141	50	---	50	0.03	0.9	---	---	1.0	0.3	11
1702+42	-	1702+52	RT	USH 141	5	---	5	0.01	0.1	---	---	0.5	---	---
1704+11	-	1704+29	LT	USH 141	20	---	20	0.01	0.3	---	---	0.5	0.2	6
CTH W NW QUADRANT *				USH 141	260	130	260	0.16	4.6	---	3.5	6.0	---	---
CTH W SW QUADRANT *				USH 141	---	60	---	---	---	---	1.7	---	---	---
CTH W NE QUADRANT *				USH 141	10	60	10	0.01	0.1	---	1.6	0.0	---	---
CTH W SE QUADRANT *				USH 141	50	80	50	0.03	0.9	---	2.2	1.0	---	---
				STAGE 2 TOTALS	855	330	855	0.5	13.8	0.0	9.0	20.5	5.1	155
STAGE 3														
OLD HWY 141 AND TURN LANE				USH 141	880	---	880	0.4	12.5	2.5	---	20.0	0.2	10
CTH W NE QUADRANT				USH 141	50	---	50	0.1	0.8	---	---	1.0	---	---
				STAGE 3 TOTALS	930	0	930	0.5	13.3	2.5	0.0	21.0	0.2	10
STAGE 4														
CTH W NW QUADRANT				USH 141	90	---	90	0.05	1.6	---	---	2.0	---	---
CTH W SW QUADRANT				USH 141	50	---	50	0.05	0.9	---	---	1.0	---	---
				STAGE 4 TOTALS	140	0	140	0.1	2.5	0.0	0.0	3.0	0.0	0
STAGE 5														
RAILROAD CROSSING				USH 141	50	---	50	0.1	0.9	---	---	1.5	---	---
				STAGE 5 TOTALS	50	0	50	0.1	0.9	0.0	0.0	1.5	0.0	0
				UNDISTRIBUTED	495	85	495	0.3	7.5	0.5	3.0	11.0	1.2	41
				PROJECT TOTALS	**2,470**	**415**	**2,470**	**1.5**	**38**	**3**	**12**	**57**	**6.5**	**206**

* INCLUDES ADDITIONAL RESTORATION ITEMS NEEDED FOR SIGNAL WORK, NOT SHOWN ON PLAN.

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EROSION CONTROL ITEMS

STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH
CATEGORY 0010											
STAGE 2											
1639+00	-	1652+00	USH 141	---	---	---	---	---	---	---	---
1652+00	-	1667+00	USH 141	---	---	---	---	---	---	---	---
1667+00	-	1682+00	USH 141	---	---	---	---	2	80	---	---
1682+00	-	1697+00	USH 141	---	---	---	---	4	110	---	---
1697+00	-	1711+50	USH 141	---	---	---	---	5	30	10	---
1711+50	-	1715+37	USH 141	---	---	---	---	---	---	---	---
			STAGE 2 TOTALS	0	0	0	0	11	220	10	0
STAGE 3											
1639+00	-	1652+00	USH 141	---	---	---	---	---	---	---	20
1652+00	-	1667+00	USH 141	---	---	---	---	---	---	---	46
1667+00	-	1682+00	USH 141	---	---	---	---	---	---	---	16
1682+00	-	1697+00	USH 141	---	---	---	---	---	---	---	20
1697+00	-	1711+50	USH 141	---	---	---	---	---	---	---	8
OLD HWY 141			USH 141	620	620	---	---	---	---	3	---
			STAGE 3 TOTALS	620	620	0	0	0	0	3	110
			UNDISTRIBUTED	155	155	6	3	4	55	2	30
			PROJECT TOTALS	**775**	**775**	**6**	**3**	**15**	**275**	**15**	**140**

ERECTION & REMOVAL OF PERMANENT SIGNING

SIGN NO.	LOCATION	SIGN CODE	SIGN SIZE W X H	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	634.0616 POSTS WOOD 4x6-INCH x 16-FT EACH	634.0618 POSTS WOOD 4x6-INCH x 18-FT EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
CATEGORY 0010												
STAGE 5												
1	USH 141, S. OF OWL LN	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	55 MPH
2	"	R2-1	36" X 48"	12.00	---	---	---	1	---	---	---	35 MPH
3	"	R2-1	---	---	---	---	---	---	---	1	1	
4	"	W3-5	---	---	---	---	---	---	---	1	1	
5	"	W3-5	36" X 36"	---	---	9.00	---	1	---	---	---	35 MPH
6	OWL LN	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
7	USH 141, N. OF OWL LN	I2-3	60" X 24"	10.00	---	---	2	---	---	1	2	SEE SIGN DETAILS
8	"	R3-9B	24" X 36"	6.00	---	---	1	---	---	---	---	
9	"	R2-1	---	---	---	---	---	---	---	1	1	
10	"	W4-2R	---	---	---	---	---	---	---	1	1	
11	FINELLI AVE	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
12	USH 141, N. OF FINELLI AVE	R2-1	---	---	---	---	---	---	---	1	1	
13	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	35 MPH
14	"	R3-9B	24" X 36"	6.00	---	---	1	---	---	---	---	
15	USH 141, S. OF DESCHANE AVE	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
16	"	R3-9B	24" X 36"	6.00	---	---	1	---	---	---	---	
17	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	35 MPH
18	DESCHANE AVE	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
19	USH 141, S. OF SOUTH ST	R3-9B	24" X 36"	6.00	---	---	1	---	---	---	---	
19A	"	R3-8LF	36" X 30"	7.50	---	---	1	---	---	---	---	
20	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
21	SOUTH ST	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
21A	"	R3-8LF	36" X 30"	7.50	---	---	1	---	---	---	---	
22	"	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
23	USH 141, N. OF SOUTH ST	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
24	"	R3-9B	24" X 36"	6.00	---	---	1	---	---	---	---	
25	"	R2-1	---	---	---	---	---	---	---	1	1	
26	WITT ST	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
27	USH 141, N. OF WITT ST	J4-1	---	---	---	---	---	---	---	1	1	
28	USH 141, S. PINE AVE	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
29	PINE AVE	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
30	USH 141, S. PINE AVE	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
31	USH 141, N. OF PINE AVE	R59-51	36" X 36"	9.00	---	---	---	---	---	---	---	
32	"	J1-2	48" X 39"	13.00	---	---	---	1	---	1	1	SEE PLAN SHEET
33	HALL AVE	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
34	USH 141, S. OF ELS RR	W10-1	36" X 36"	---	---	7.07	---	---	1	1	1	
35	"	W10-1A	24" X 12"	---	---	2.00	---	---	---	---	---	MOUNT BELOW SIGN 34
36	USH 141, S. OF ELS RR	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
37	"	R4-7	24" X 30"	5.00	---	---	1	---	---	---	---	
38	USH 141, N. OF ELS RR	D1-2	90" X 36"	22.50	---	---	---	2	---	1	2	SEE SIGN DETAILS
39	"	R4-7	24" X 30"	5.00	---	---	1	---	---	---	---	
40	"	W3-3	36" X 36"	---	---	9.00	---	1	---	1	1	
41	"	W3-3	---	---	---	---	---	---	---	1	1	
42	"	W10-1	36" X 36"	---	---	7.07	---	---	1	1	1	
43	"	W10-1A	24" X 12"	---	---	2.00	---	---	---	---	---	MOUNT BELOW SIGN 42
			SUBTOTALS	207.94	0.00	36.14	28	6	2	29	31	

ERECTION & REMOVAL OF PERMANENT SIGNING (CONTINUED)

SIGN NO.	LOCATION	SIGN CODE	SIGN SIZE W X H	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	634.0616 POSTS WOOD 4x6-INCH x 16-FT EACH	634.0618 POSTS WOOD 4x6-INCH x 18-FT EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
CATEGORY 0010												
STAGE 5												
44	USH 141, S. OF CTH W	R3-9B	24" X 36"	6.00	---	---	1	---	---	---	---	
45	"	R2-1	---	---	---	---	---	---	---	1	1	
46	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	35 MPH
47	"	D1-1	84" X 60"	35.00	---	---	---	---	2	1	2	SEE SIGN DETAILS
48	"	R3-8LF	36" X 30"	7.50	---	---	1	---	---	---	---	
49	"	J4-1	24" X 36"	6.00	---	---	---	1	---	---	---	SEE PLAN SHEET
50	"	J2-1	---	---	---	---	---	---	---	1	---	
51	"	J13-2	48" X 45"	15.00	---	---	---	---	---	1	---	MOUNT TO SIGNAL, SEE PLAN SHEET
52	"	R1-1F	30" X 30"	---	5.18	---	---	---	---	---	---	MOUNT BELOW SIGN 51, REMOVAL INCLUDED IN SIGN 51
53	CTH W INTERSECTION	J13-1	24" X 45"	7.50	---	---	---	---	---	---	---	MOUNT TO SIGNAL, SEE PLAN SHEET
54	"	R1-1F	30" X 30"	---	5.18	---	---	---	---	1	---	MOUNT BELOW SIGN 53
55	"	R3-8ER	36" X 30"	7.50	---	---	1	---	---	---	---	
56	"	R3-8LF	36" X 30"	7.50	---	---	1	---	---	---	---	
57	"	J13-1	24" X 45"	7.50	---	---	---	---	---	---	---	MOUNT TO SIGNAL, SEE PLAN SHEET
58	"	R1-1F	30" X 30"	---	5.18	---	---	---	---	1	---	MOUNT BELOW SIGN 57
59	USH 141, N. OF CTH W	R2-1	---	---	---	---	---	---	---	1	---	
60	"	R1-1F	30" X 30"	---	5.18	---	---	---	---	1	---	
61	"	J13-2	48" X 45"	15.00	---	---	---	---	1	1	1	SEE PLAN SHEET
62	"	W9-1R	---	---	---	---	---	---	---	1	1	
63	"	J4-1	24" X 36"	6.00	---	---	---	1	---	---	---	SEE PLAN SHEET
64	"	J4-1	---	---	---	---	---	---	---	1	1	
65	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	35 MPH
66	"	R3-8LF	36" X 30"	7.50	---	---	1	---	---	---	---	
67	"	D1-2	90" X 36"	22.50	---	---	---	2	---	1	2	SEE SIGN DETAILS
68	"	R3-9B	24" X 36"	6.00	---	---	1	---	---	---	---	
69	"	W3-3	36" X 36"	---	---	9.00	---	1	---	1	1	
70	"	W4-2R	---	---	---	---	---	---	---	1	1	
71	"	R3-9B	24" X 36"	6.00	---	---	1	---	---	---	---	
72	"	R2-1	---	---	---	---	---	---	---	1	1	
73	MIRA AVE	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
74	USH 141, N. OF MIRA AVE	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
75	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	35 MPH
76	"	J1-2	48" X 39"	13.00	---	---	---	1	---	1	1	SEE PLAN SHEET
77	OLD HWY 141	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
78	USH 141, N. OF OLD HWY 141	I2-3	60" X 24"	10.00	---	---	---	2	---	1	2	SEE SIGN DETAILS
79	"	R59-51	36" X 36"	9.00	---	---	---	1	---	1	1	MOUNT TO BACK OF SIGN 80
80	"	W14-3	48" X 36"	---	---	5.56	---	---	---	---	---	
81	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	55 MPH
82	"	R2-1	---	---	---	---	---	---	---	1	1	
83	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	35 MPH
84		W3-5	36" X 36"	---	---	9.00	---	1	---	---	---	
85		R2-1	---	---	---	---	---	---	---	1	1	
86	"	W3-5	---	---	---	---	---	---	---	1	1	
			SUBTOTALS	234.86	20.72	23.56	15	10	3	24	21	
			PROJECT TOTALS	**442.80**	**20.72**	**59.70**	**43**	**16**	**5**	**53**	**52**	

DETOUR SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 5 DAYS	643.0900 TRAFFIC CONTROL SIGNS * DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III * DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A * DAYS	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	643.1050 TRAFFIC CONTROL SIGNS PCMS * DAYS	643.0300 TRAFFIC CONTROL DRUMS * DAYS	NO. OF CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II * EACH	REMARKS
CATEGORY 0010														
STAGE 5														
1	500' N OF TYPE 1 (64; ANTIGO/MARINETTE; EXIT 1 MILE) ON HWY 141 (NB)	FMS	132"X72"	1	---	---	---	---	66	---	---	---	---	SEE SIGN DETAIL
2	ACROSS FROM SIGN # 1 (MEDIAN SIDE)	FMS	132"X72"	1	---	---	---	---	66	---	---	---	---	SEE SIGN DETAIL
3	1000' N OF TYPE 1 (64; ANTIGO/MARINETTE; EXIT 1 MILE) ON HWY 141 (NB)	W 20-2A	48"x48"	1	5	5	---	---	---	---	---	---	---	
4	ACROSS FROM SIGN # 3 (MEDIAN SIDE)	W 20-2A	48"x48"	1	5	5	---	---	---	---	---	---	---	
5	1500' N OF SIGN # 3 ON HWY 141 NB	M 4-8	36"x18"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	36"x18"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	36"x36"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 5-2R	30"x30"	1	5	5	---	---	---	---	---	---	---	
6	ACROSS FROM SIGN # 5 (MEDIAN SIDE)	M 4-8	36"x18"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	36"x18"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	36"x36"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 5-2R	30"x30"	1	5	5	---	---	---	---	---	---	---	
7	1500' N OF SIGN # 5 ON HWY 141 NB	M 4-8	36"x18"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	36"x18"	1	5	5	---	---	---	---	---	---	---	
	"	M1-4	36"x36"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 5-2R	30"x30"	1	5	5	---	---	---	---	---	---	---	
8	ACROSS FROM SIGN # 7 (MEDIAN SIDE)	M 4-8	36"x18"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	36"x18"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	36"x36"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 5-2R	30"x30"	1	5	5	---	---	---	---	---	---	---	
9	LT OF TYPE 1 (64; ANTIGO/MARINETTE; EXIT TILT RIGHT ONLY) ON HWY 141 (NB)	MO 4-8	36"x18"	1	5	5	---	---	---	---	---	---	---	
	"	MO 3-1	36"x18"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	36"x36"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-2	30"x30"	1	5	5	---	---	---	---	---	---	---	RIGHT
10	LT OF W 2-6 (ROUND-A-BOUT AHEAD) ON NB OFF-RAMP TO HWY 64	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 5-1R	21"x21"	1	5	5	---	---	---	---	---	---	---	
11	100' S OF R1-2 (YIELD) ON NB OFF-RAMP @ HWY 64 EAST RAB	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-2	21"x21"	1	5	5	---	---	---	---	---	---	---	RIGHT
12	MODIFY D2-2 (TILT LT 141 NORTH; 64 EAST TILT RT)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	ABOVE NORTH-141
	"		14"x14"	---	---	---	---	---	---	---	---	1	1	FOLLOW A4-12 PLATE
	GAP IN SIGN NUMBERING (13)													
14	100' E OF D4-5 (PARK & RIDE) SIGN ON HWY 64 (EB)	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	W 20-2A	48"x48"	1	5	5	---	---	---	---	---	---	---	
15	D 1-1 (NORTH-141-TILT RT)			1	5	5	---	---	---	---	---	1	1	NORTH 141 TILT RT
16	ACROSS FROM SIGN # 15 (RIGHT SIDE)	R 11-3	60"x30"	1	5	5	5	10	---	---	---	---	---	8 1/2 MILES
	"	M 1-4	24"X24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"X21"	1	5	5	---	---	---	---	---	---	---	RIGHT
			SUBTOTALS			190	5	10	132	0	0		2	

* ADDITIONAL QUANTITIES SHOWN IN OTHER TABLES

DETOUR SUMMARY (CONTINUED)

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 5 DAYS	643.0900 TRAFFIC CONTROL SIGNS * DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III * DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A * DAYS	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	643.1050 TRAFFIC CONTROL SIGNS PCMS * DAYS	643.0300 TRAFFIC CONTROL DRUMS * DAYS	NO. OF CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II * EACH	REMARKS
CATEGORY 0010 STAGE 5														
17	LT OF J4-1 ON HWY 64 (EB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
18	D 1-62 ROUND-A-BOUT AHEAD (S-141/W-64, AHEAD; N-141-IRON MOUNTIAN)			1	5	5	---	---	---	---	---	1	1	NORTH-141-IRON MOUNTIAN
19	MODIFY J1-2 (JCT 141; JCT BUS 141)	MO 4-8A	24"x18"	1	5	5	---	---	---	---	---	---	---	
20	200' W OF CTY Q INTERSECTION ON HWY 64 (WB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-3	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	AHEAD
21	200' E OF CTY Q INTERSECTION ON HWY 64 (EB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	AHEAD
22	200' W OF AUGUSTINE RD INTERSECTION ON HWY 64 (WB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-3	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	AHEAD
23	200' E OF AUGUSTINE RD INTERSECTION ON HWY 64 (EB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	AHEAD
24	LT OF J1-1 (JCT W) ON HWY 64 (EB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 5-1L	21"x21"	1	5	5	---	---	---	---	---	---	---	
25	LT OF J4-1 (W-64) ON HWY 64 (WB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-3	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
26	LT OF J13-1 (W-LT & RT) ON HWY 64 (EB) (NEAR RT)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	LEFT
27	BACKSIDE OF J13-1 (W-LT & RT) ON HWY 64 (WB) (FAR LT -FACING EB TRAFFIC)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	LEFT
28	LT OF J13-1 (W-LT & RT) ON HWY 64 (WB) (NEAR RT)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	RIGHT
			SUBTOTALS			200	0	0	0	0	0		1	

* ADDITIONAL QUANTITIES SHOWN IN OTHER TABLES

DETOUR SUMMARY (CONTINUED)

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 5 DAYS	643.0900 TRAFFIC CONTROL SIGNS * DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III * DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A * DAYS	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	643.1050 TRAFFIC CONTROL SIGNS PCMS * DAYS	643.0300 TRAFFIC CONTROL DRUMS * DAYS	NO. OF CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II * EACH	REMARKS
CATEGORY 0010 STAGE 5														
29	LT OF J1-1 (JCT W) ON HWY 64 (WB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 5-1R	21"x21"	1	5	5	---	---	---	---	---	---	---	
30	500' E OF SIGN # 29 ON HWY 64 (WB)	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	W 20-2A	48"x48"	1	5	5	---	---	---	---	---	---	---	
31	LT OF J4-2 (W-AH; 64-LT & RT) ON CTY W (SB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-3	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	RIGHT
32	200' N OF SIGN # 31 ON CTY W (SB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-3	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	RIGHT
33	200' N OF HWY 64 INTERSECTION ON CTY W (NB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
34	500' N OF SIGN # 32 ON CTY W (SB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-3	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 5-1R	21"x21"	1	5	5	---	---	---	---	---	---	---	
35	200' S OF CTY P INTERSECTION ON CTY W (SB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-3	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	AHEAD
36	200' N OF CTY P INTERSECTION ON CTY W (NB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	AHEAD
37	200' S OF BEECH RD INTERSECTION ON CTY W (SB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-3	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	AHEAD
38	200' N OF BEECH RD INTERSECTION ON CTY W (NB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	AHEAD
39	200' S OF LOOMIS RD INTERSECTION ON CTY W (SB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-3	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	AHEAD
			SUBTOTALS			210	0	0	0	0	0		0	

* ADDITIONAL QUANTITIES SHOWN IN OTHER TABLES

DETOUR SUMMARY (CONTINUED)

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 5 DAYS	643.0900 TRAFFIC CONTROL SIGNS * DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III * DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A * DAYS	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	643.1050 TRAFFIC CONTROL SIGNS PCMS * DAYS	643.0300 TRAFFIC CONTROL DRUMS * DAYS	NO. OF CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II * EACH	REMARKS
CATEGORY 0010 STAGE 5														
40	200' N OF LOOMIS RD INTERSECTION ON CTY W (NB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	AHEAD
41	200' S OF CTY G INTERSECTION ON CTY W (SB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-3	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	AHEAD
42	200' N OF CTY G INTERSECTION ON CTY W (NB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	AHEAD
43	200' S OF CTY GG INTERSECTION ON CTY W (SB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-3	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	AHEAD
44	200' N OF CTY GG INTERSECTION ON CTY W (NB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-1	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	AHEAD
45	MODIFY J1-1 (JCT 141) ON CTY W (NB)	MO 4-8A	24"x18"	1	5	5	---	---	---	---	---	---	---	
46	200' S OF HWY 141 INTERSECTION ON CTY W (SB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-3	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
47	MODIFY J4-3 (A-AH; W-AH; 141- LT & RT)	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	RIGHT
48	SW QUAD OF HWY 141 & CTY W INTERSECTION	R 11-4	60"x30"	1	5	5	5	10	---	---	---	---	---	
49	BELOW SIGN # 48	MO 4-9L	30"x24"	1	5	5	---	---	---	---	---	---	---	
50	LT OF J13-2 (W-LT & RT; A-RT) ON HWY 141 (SB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-3	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	LEFT
51	LT OF J1-1 (JCT W) ON HWY 141 (SB)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-3	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 5-1L	21"x21"	1	5	5	---	---	---	---	---	---	---	
52	PLACE JUST N. OF MIRA AVE (SB)	FMS	78"X48"	1	---	---	---	---	26					SEE SIGN DETAIL SHEET
53	500' N OF SIG N# 51 ON HWY 141 (SB)	W 20-2A	48"x48"	1	5	5	---	---	---	---	---	---	---	
54	ACROSS FROM SIGN # 52 (FACING SB TRAFFIC)	W 20-2A	48"x48"	1	5	5	---	---	---	---	---	---	---	
			SUBTOTALS			185	5	10	26	0	0		0	

* ADDITIONAL QUANTITIES SHOWN IN OTHER TABLES

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DETOUR SUMMARY (CONTINUED)

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 5 DAYS	643.0900 TRAFFIC CONTROL SIGNS * DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III * DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A * DAYS	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	643.1050 TRAFFIC CONTROL SIGNS PCMS * DAYS	643.0300 TRAFFIC CONTROL DRUMS * DAYS	NO. OF CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II * EACH	REMARKS
CATEGORY 0010 STAGE 5														
55	AT US 141 ON CTH W WEST LEG (FACING EB CTH W)	M 4-8	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 3-3	24"x12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"x24"	1	5	5	---	---	---	---	---	---	---	141
	"	MO 6-1	21"x21"	1	5	5	---	---	---	---	---	---	---	AHEAD
56	PLACE 750' W. OF SIGN #55 (EB CTH W)	M 3-3	24"X12"	1	5	5	---	---	---	---	---	---	---	
	"	M 1-4	24"X24"	1	5	5	---	---	---	---	---	---	---	141
	"	W 20-2A	48"X48"	1	5	5	---	---	---	---	---	---	---	
57	US 141 SB, N. OF RXR CROSSING, FIELD DETERMINE LOCATION ON RIGHT SHOULDER	PCMS		1	---	---	---	---	---	7	35	---	---	PLACE IN ADVANCE OF CLOSURE
58	US 141 NB, S. OF RXR CROSSING, FIELD DETERMINE LOCATION ON RIGHT SHOULDER	PCMS		1	---	---	---	---	---	7	35	---	---	PLACE IN ADVANCE OF CLOSURE
59	NE QUAD OF HWY 141 & CTY P INTERSECTION	R 11-3	60"x30"	1	5	5	5	10	---	---	---	---	---	6 1/2 MILES
			SUBTOTALS			40	5	10	0	14	70		0	
		PROJECT TOTALS				**825**	**15**	**30**	**158**	**14**	**70**		**3**	

* ADDITIONAL QUANTITIES SHOWN IN OTHER TABLES

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TRAFFIC CONTROL COVERING SIGNS

LOCATION	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II * EACH	NO. OF CYCLES	SIGN MESSAGE
CATEGORY 0010			
STAGE 1			
WB CTH W BEFORE USH 141	1	1	WAUSAUKEE DIRECTIONAL ARROW
NB USH 141 BEFORE CTH W	1	1	GOV THOMSON STATE PARK AND GOV EARL PESHTIGO RIVER STATE FOREST DIRECTIONAL ARROWS
NB USH 141 BEFORE CTH W	1	1	CTH A DIRECTIONAL ARROW
SB USH 141 BEFORE CTH W	1	1	BUSINESS DISTRICT DIRECTIONAL ARROW
STAGE 1 TOTALS	4		
STAGE 3			
NB USH 141 BEFORE CTH W	1	1	LAKE NOQUEBAY COUNTY PARK DIRECTIONAL ARROW
SB USH 141 BEFORE CTH W	1	1	LAKE NOQUEBAY COUNTY PARK DIRECTIONAL ARROW
WB CTH W BEFORE USH 141	1	1	SIGNAL AHEAD
WB CTH W BEFORE USH 141	1	1	USH 141 JCT
STAGE 3 TOTALS	4		
STAGE 4			
SB USH 141 BEFORE CTH W	1	1	BUSINESS DISTRICT DIRECTIONAL ARROW
SB USH 141 BEFORE CTH W	1	1	CTH A DIRECTIONAL ARROW
WB CTH W BEFORE USH 141	1	1	CTH A AND CTH W DIRECTIONAL ARROWS
NB USH 141 BEFORE CTH W	1	1	BUSINESS DISTRICT DIRECTIONAL ARROW
EB CTH W BEFORE USH 141	1	1	POUND AND WAUSAUKEE DIRECTION ARROWS
EB CTH W BEFORE USH 141	1	1	SIGNAL AHEAD
EB CTH W BEFORE USH 141	1	1	USH 141 JCT
STAGE 4 TOTALS	7		
PROJECT TOTALS	**15**		

* ADDITIONAL QUANTITY SHOWN IN OTHER TABLES

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TRAFFIC CONTROL SUMMARY

LOCATION	STAGE DAYS	643.0300 TRAFFIC CONTROL DRUMS * NO.	DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III * NO.	DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A * NO.	DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C NO.	DAYS	643.0900 TRAFFIC CONTROL SIGNS * NO.	DAYS	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS NO.	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES NO.	643.1050 TRAFFIC CONTROL SIGNS PCMS * ** NO.	DAYS
CATEGORY 0010															
STAGE 1															
PROJECT	3	455	1,405	34	102	60	180	41	123	67	201	---	---	2	14
	STAGE 1 TOTALS		1,405		102		180		123		201	0	0		14
STAGE 2															
PROJECT	16	350	5,600	19	304	38	608	---	---	42	672	---	---	---	---
	STAGE 2 TOTALS		5,600		304		608		0		672	0	0		0
STAGE 3															
PROJECT	17	218	3,706	22	374	28	476	26	442	47	799	---	---	---	---
CTH W CLOSURE	5	14	90	9	45	6	30	---	---	14	70	---	---	2	14
	STAGE 3 TOTALS		3,796		419		506		442		869	0	0		14
STAGE 4															
PROJECT	7	215	1,505	12	84	24	168	12	84	40	280	---	---	---	---
CTH W CLOSURE	5	15	95	9	45	6	30	---	---	14	70	---	---	2	14
	STAGE 4 TOTALS		1,600		129		198		84		350	0	0		14
STAGE 5															
PROJECT	7	355	2,485	17	119	26	182	49	343	33	231	18	18	---	---
RR XING CLOSURE	5	27	135	28	140	16	80	---	---	8	40	---	---	---	---
	STAGE 5 TOTALS		2,620		259		262		343		271	18	18		0
	PROJECT TOTALS		**15,021**		**1,213**		**1,754**		**992**		**2,363**	**18**	**18**		**42**

* ADDITIONAL QUANTITIES SHOWN IN OTHER TABLES

** TO BE PLACED 7 DAYS BEFORE STAGE 1 AND 7 DAYS BEFORE CLOSURES

TEMPORARY MARKING LINE AND MARKING REMOVALS

LOCATION	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH (WHITE) LF	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH (DOUBLE YELLOW) LF	643.3180 TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE) LF	643.3180 TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW) LF	643.3180 TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (DOUBLE YELLOW) LF	643.3280 TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE) LF	643.3805 TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE) LF	643.3850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE) LF	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9200 MARKING REMOVAL LINE WIDE LF	646.9300 MARKING REMOVAL SPECIAL MARKING EACH
CATEGORY 0010											
STAGE 2											
USH 141	---	400	---	---	---	---	---	---	---	---	---
	400			0		0	0	0	0	0	0
STAGE 3											
USH 141	7,255	14,590	2,015	400	315	40	11	---	3,790	80	1
STAGE 3 TOTALS		21,845		2,730		40	11	0	3,790	80	1
STAGE 4											
USH 141	---	---	8,925	---	15,060	---	---	11	240	15	---
STAGE 4 TOTALS		0		23,985		0	0	11	240	15	0
PROJECT TOTALS		**22,245**		**26,715**		**40**	**11**	**11**	**4,030**	**95**	**1**

MARKINGS

STATION - STATION	LOCATION	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH WHITE LF	YELLOW LF	DOUBLE YELLOW LF	12.5' LINE 37.5' SKIP YELLOW LF	3' LINE 9' SKIP WHITE LF	646.4040 MARKING LINE GROOVED WET REF EPOXY 10-INCH WHITE LF	3' LINE 9' SKIP WHITE LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	646.5320 MARKING RAILROAD CROSSING EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH LF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH
CATEGORY 0010															
STAGE 4															
60'CW'+46 - 60'CW'+71	CTH W	---	---	30	---	---	25	---	2	---	---	30	---	---	---
	STAGE 4 TOTALS			30			25		2	0	0	30	0	0	0
STAGE 5															
1639+00 - 1669+59	USH 141	5,890	4,910	2,430	1,230	---	150	---	16	---	---	---	140	---	---
1670+53 - 1693+23	USH 141	4,220	3,840	990	955	---	150	---	12	---	1	---	---	45	1
1693+23 - 1700+14	USH 141	1,340	550	850	135	---	200	---	4	1	1	35	---	45	1
1701+26 - 1718+23	USH 141	3,070	1,025	3,395	255	15	385	40	4	1	---	30	170	---	---
59'CW'+70 - 59'CW'+50	CTH W	---	---	80	---	---	40	---	2	---	---	25	---	---	---
	STAGE 5 TOTALS			35,180			965		38	2	2	90	310	90	2
	PROJECT TOTALS			**35,210**			**990**		**40**	**2**	**2**	**120**	**310**	**90**	**2**

COLD WEATHER MARKINGS

STATION - STATION			LOCATION	646.6466 COLD WEATHER MARKING EPOXY 6-INCH WHITE LF	YELLOW LF	DOUBLE YELLOW LF	12.5' LINE 37.5' SKIP YELLOW LF	3' LINE 9' SKIP WHITE LF	646.6470 COLD WEATHER MARKING EPOXY 10-INCH WHITE LF	3' LINE 9' SKIP WHITE LF
CATEGORY 0010										
STAGE 4										
60'CW'+46	-	60'CW'+71	CTH W	---	---	30	---	---	25	---
			STAGE 4 TOTALS			30				25
STAGE 5										
1639+00	-	1669+59	USH 141	5,890	4,910	2,430	1,230	---	150	---
1670+53	-	1693+23	USH 141	4,220	3,840	990	955	---	150	---
1693+23	-	1700+14	USH 141	1,340	550	850	135	---	200	---
1701+26	-	1718+23	USH 141	3,070	1,025	3,395	255	15	385	40
59'CW'+70	-	59'CW'+50	CTH W	---	---	80	---	---	40	---
			STAGE 5 TOTALS			35,180				965
			PROJECT TOTALS			**35,210**				**990**

CONSTRUCTION STAKING

STATION TO STATION			LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
CATEGORY 0010						
STAGE 3						
1710+00	-	1715+14	USH 141	520	520	520
10+00	-	10+99	OLD HWY 141	100	100	100
			STAGE 3 TOTALS	620	620	620
STAGE 5						
1691+92	-	1693+20	USH 141	130	130	75
1693+26	-	1694+54	USH 141	130	130	75
			STAGE 5 TOTALS	260	260	150
			PROJECT TOTALS	**880**	**880**	**770**

UTILITY LINE OPENING (ULO)

STATION	DIR	LOCATION	SPV.0060.03 UTILITY LINE OPENING (ULO) EACH	REMARKS
CATEGORY 0010				
STAGE 2				
1700+24	LT	USH 141	1	VILLAGE OF CRIVITZ (WATER)
1700+99	RT	USH 141	1	BRIGHTSPEED (FIBER OPTIC)
1701+19	RT	USH 141	1	WISCONSIN PUBLIC SERVICE (GAS)
1701+25	LT	USH 141	1	VILLAGE OF CRIVITZ (WATER)
1713+31	RT	USH 141	1	WISCONSIN PUBLIC SERVICE (GAS)
		PROJECT TOTALS	**5**	

SAWING

STATION TO STATION			DIR	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
CATEGORY 0010						
STAGE 2						
1667+79	-	1667+97	RT	USH 141	15	5
1668+83	-	1668+98	LT	USH 141	15	5
1669+32	-	1669+47	RT	USH 141	15	5
1670+50	-	1670+65	RT	USH 141	15	5
1670+52	-	1670+67	LT	USH 141	15	5
1676+16	-	1676+31	LT	USH 141	15	5
1676+19	-	1676+34	RT	USH 141	15	5
1679+13	-	1679+28	LT	USH 141	15	5
1686+01	-	1686+16	RT	USH 141	15	5
1686+01	-	1686+16	LT	USH 141	15	5
1688+01	-	1688+16	RT	USH 141	15	5
1688+01	-	1688+16	LT	USH 141	15	5
1690+49	-	1690+64	RT	USH 141	15	5
1692+00	-	1692+15	RT	USH 141	15	5
1694+48	-	1694+63	RT	USH 141	15	5
1694+48	-	1694+63	LT	USH 141	15	5
1695+49	-	1695+64	RT	USH 141	15	5
1695+73	-	1695+88	LT	USH 141	15	5
1696+98	-	1697+13	LT	USH 141	15	5
1697+52	-	1697+67	RT	USH 141	15	5
1698+48	-	1698+63	LT	USH 141	---	15
1700+83	-	1700+98	LT	USH 141	---	15
1701+25	-	1701+40	LT	USH 141	---	15
1702+42	-	1702+64	LT	USH 141	30	5
1702+42	-	1702+52	RT	USH 141	15	5
1704+14	-	1704+29	LT	USH 141	15	5
				STAGE 2 TOTALS	360	160
STAGE 3						
171+00	-	1715+14	RT	USH 141	525	---
10+99			RT/LT	OLD HWY 141	30	---
NE QUADRANT				CTH W	185	5
SE QUADRANT				CTH W	140	5
				STAGE 3 TOTALS	880	10
STAGE 4						
NW QUADRANT				CTH W	125	5
SW QUADRANT				CTH W	150	5
				STAGE 4 TOTALS	275	10
STAGE 5						
1691+92	-	1692+70	RT/LT	USH 141	25	185
1694+64	-	1694+54	RT/LT	USH 141	25	210
DRIVEWAY				USH 141	40	35
				STAGE 5 TOTALS	90	430
				PROJECT TOTALS	**1,605**	**610**

TRAFFIC SIGNALS
S38-0492 TEMPORARY

PULL BOXES

LOCATION	653.0164 PULL BOXES NON-CONDUCTIVE 24x42-INCH EACH
CATEGORY 0010	
S38-0492 (USH 141 & CTH W) TEMPORARY	10
PROJECT TOTALS	**10**

REMOVING PULL BOXES

LOCATION	653.0905 REMOVING PULL BOXES EACH
CATEGORY 0010	
S38-0492 (USH 141 & CTH W) TEMPORARY	12
PROJECT TOTALS	**12**

REMOVING CONCRETE BASES

LOCATION	204.0195 REMOVING CONCRETE BASES EACH
CATEGORY 0010	
S38-0492 (USH 141 & CTH W) TEMPORARY	9
PROJECT TOTALS	**9**

3

CONDUIT

LOCATION S38-0492 (USH 141 & CTH W) TEMPORARY		652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	652.0605 CONDUIT SPECIAL 2-INCH	652.0615 CONDUIT SPECIAL 3-INCH
FROM	TO	LF	LF	LF	LF
CATEGORY 0010					
CB1	PB1	---	20	---	---
CB1	PB1	---	20	---	---
PB1	PB2	35	---	---	---
PB2	South of Driveway	130	---	---	---
South of Driveway	North of Driveway	---	---	60	---
North of Driveway	PB3	70	---	---	---
PB1	SB1	10	---	---	---
PB1	PB4	---	---	---	85
PB1	PB4	---	---	---	85
PB4	SB2	---	5	---	---
PB4	SB3	25	---	---	---
PB4	PB5	---	---	---	80
PB4	PB5	---	---	---	80
PB5	SB4	---	5	---	---
PB5	PB6	---	30	---	---
PB5	PB6	---	30	---	---
PB6	Northside of North Driveway	20	---	---	---
Northside of North Driveway	PB7	---	---	30	---
PB7	Northside of South Driveway	---	---	180	---
Northside of South Driveway	PB8	75	---	---	---
PB6	SB5	5	---	---	---
PB6	PB9	---	---	---	80
PB6	PB9	---	---	---	80
PB9	SB6	---	10	---	---
PB9	SB7	20	---	---	---
PB9	PB10	---	---	---	70
PB9	PB10	---	---	---	70
PB10	SB8	---	15	---	---
PB10	CB1	---	30	---	---
PB10	CB1	---	30	---	---
	PROJECT TOTALS	**390**	**195**	**270**	**630**

TRAFFIC SIGNALS
S38-0492 TEMPORARY

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CONCRETE BASES

LOCATION		STATION	OFFSET	654.0101 CONCRETE BASES TYPE 1 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	654.0120 CONCRETE BASES TYPE 10-SPECIAL EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CATEGORY 0010							
S38-0492 (USH 141 & CTH W) TEMPORARY	CB1	1701+25	56' LT	---	---	---	1
	SB1	1701+25	34' LT	1	---	---	---
	SB2	1701+19	39' RT	---	---	1	---
	SB3	1700+99	55' RT	1	---	---	---
	SB4	1700+38	59' RT	---	1	---	---
	SB5	1700+16	34' RT	1	---	---	---
	SB6	1700+24	36' LT	---	---	1	---
	SB7	1700+39	58' LT	1	---	---	---
	SB8	1700+97	76' LT	---	1	---	---
		PROJECT TOTALS		**4**	**2**	**2**	**1**

LOOP DETECTOR

LOCATION	LOOP NO.	NO. OF TURNS	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LOOP DETECTOR LEAD IN CABLE LF	655.0800 LOOP DETECTOR WIRE LF
CATEGORY 0010					
S38-0492 (USH 141 & CTH W) TEMPORARY	11	3	142	283	434
	21	4	82	333	336
	41	2	112	143	232
	42	2	122	153	252
	51	2	142	78	292
	61	6	82	538	500
	81	2	132	123	272
	82	2	152	123	312
	PROJECT TOTALS		**966**	**1,774**	**2,630**

TRAFFIC SIGNAL CABLE

LOCATION S38-0492 (USH 141 & CTH W) TEMPORARY FROM CB1 TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG * LF	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG * LF	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	HEAD NO.	655.0230 BASE TO HEAD 5-14 AWG * LF	655.0240 BASE TO HEAD 7-14 AWG * LF
CATEGORY 0010						
SB1	---	---	68	5	31	---
	---	---	---	6	---	31
SB2	---	---	163	8	USE EXISTING	---
SB3	---	---	178	11	29	---
	---	---	---	16	29	---
SB4	253	---	---	12	USE EXISTING	---
SB5	---	---	258	1	---	31
	---	---	---	10	31	---
SB6	---	---	163	2	USE EXISTING	---
SB7	---	---	173	13	29	---
	---	---	---	14	29	---
SB8	83	---	---	15	USE EXISTING	---
SUBTOTALS	336	---	1,003		178	62
PROJECT TOTALS	**514**	**62**	**1,003**			

SIGNAL INDICATION		CONDUCTOR COLOR
RED	=	RED
YELLOW	=	ORANGE
GREEN	=	GREEN
RED ARROW	=	RED W/ BLACK TRACER
YELLOW ARROW	=	BLACK W/ WHITE
YELLOW FLASHING ARROW	=	WHITE W/ BLACK
GREEN ARROW	=	BLUE W/ BLACK

PEDS		
WALK	=	GREEN
DON'T WALK	=	RED
BUTTON	=	BLACK & ORANGE

TRAFFIC SIGNALS
S38-0492 TEMPORARY

TRAFFIC SIGNALS

LOCATION	656.0201.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL S38-0492 TEMPORARY EACH	657.0100 PEDESTAL BASES EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH
CATEGORY 0010				
S38-0492 (USH 141 & CTH W) TEMPORARY	1	4	2	2
PROJECT TOTALS	**1**	**4**	**2**	**2**

TRAFFIC SIGNALS

LOCATION	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH * EACH	658.5070.01 SIGNAL MOUNTING HARDWARE S38-0492 TEMPORARY EACH	SPV.0060.02 REMOVE TRAFFIC SIGNAL (USH 141 & CTH W) EACH	SPV.0060.04 TEMPORARY TRAFFIC SIGNAL (USH 141 & CTH W) EACH	659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR * EACH
CATEGORY 0010					
S38-0492 (USH 141 & CTH W) TEMPORARY	6	1	1	1	18
PROJECT TOTALS	**6**	**1**	**1**	**1**	**18**

* ADDITIONAL QUANTITIES SHOWN IN OTHER TABLES

ELECTRICAL WIRE

LOCATION		655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG (EQUIPMENT GROUNDING CONDUCTOR) (GREEN)
S38-0492 (USH 141 & CTH W) TEMPORARY		
FROM	TO	LF
CATEGORY 0010		
CB1	SB1	68
SB1	SB2	146
SB2	SB3	66
SB2	SB4	141
SB4	SB5	86
SB5	SB6	146
SB6	SB7	61
SB7	SB8	141
SB8	CB1	83
	PROJECT TOTALS	**938**

TRAFFIC SIGNALS
S38-0492 FUTURE

TRAFFIC SIGNAL CABLE

LOCATION S38-0492 (USH 141 & CTH W) FUTURE FROM CB1 TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG * LF	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG * LF	HEAD NO.	655.0230 BASE TO HEAD 5-14 AWG * LF	655.0240 BASE TO HEAD 7-14 AWG * LF
CATEGORY 0010					
SB2	---	---	7	---	76
	---	---	8	66	---
	---	---	9	29	---
SB4	---	---	12	66	---
SB6	---	---	2	---	76
	---	---	3	66	---
	---	---	4	29	---
SB8	---	---	15	61	---
SUBTOTALS	---	---		317	152
PROJECT TOTALS	**317**	**152**			

* ADDITIONAL QUANTITIES SHOWN IN OTHER TABLES

SIGNAL INDICATION		CONDUCTOR COLOR
RED	=	RED
YELLOW	=	ORANGE
GREEN	=	GREEN
RED ARROW	=	RED W/ BLACK TRACER
YELLOW ARROW	=	BLACK W/ WHITE
YELLOW FLASHING ARROW	=	WHITE W/ BLACK
GREEN ARROW	=	BLUE W/ BLACK

PEDS		
WALK	=	GREEN
DON'T WALK	=	RED
BUTTON	=	BLACK & ORANGE

TRAFFIC SIGNALS

LOCATION	657.0345 POLES TYPE 9 EACH	657.0347 POLES TYPE 9- SPECIAL EACH	657.0525 MONOTUBE ARMS 25-FT EACH	657.0530 MONOTUBE ARMS 30-FT EACH	657.0541 MONOTUBE ARMS 40-FT SPECIAL EACH
CATEGORY 0010					
S38-0492 (USH 141 & CTH W) FUTURE	2	2	1	1	2
PROJECT TOTALS	**2**	**2**	**1**	**1**	**2**

TRAFFIC SIGNALS

LOCATION	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH * EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.5070.02 SIGNAL MOUNTING HARDWARE S38-0492 FUTURE EACH	659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR * EACH
CATEGORY 0010				
S38-0492 (USH 141 & CTH W) FUTURE	6	4	1	18
PROJECT TOTALS	**6**	**4**	**1**	**18**

* ADDITIONAL QUANTITIES SHOWN IN OTHER TABLES

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
1490-40-20		
CONSTRUCTION PROJECT NUMBER	4.01	2
1490-40-71		

PLAT OF RIGHT OF WAY REQUIRED FOR
USH 141, VILLAGE OF CRIVITZ
OWL LANE - S. JUNCTION OLD HWY 141

MARINETTE COUNTY | USH 141

4

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE, AND OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMP. LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
BUILDING (TO BE REMOVED)
BRIDGE

PARCEL NUMBER 25
SECTION CORNER
NOTATION FOR COMBUSTABLE FLUIDS (CAUTION)
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES (CAUTION)

UTILITY NUMBER 40
R/W MONUMENT
NON-MONUMENTED R/W POINT
FOUND IRON PIN IP
VALVE (GAS, WATER, ETC.) (TYPE)
SIGN
OFF-PREMISE SIGN (SIGN)

ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	R/L		

CONVENTIONAL UTILITY SYMBOLS

	NON-COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES ELECTRIC	OH	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), MARINETTE COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1"X 24"IRON REBARS), UNLESS OTHERWISE NOTED,AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS"OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

PROPERTY LINES SHOWN ON THIS PLAT FOR PROPERTIES BEING IMPACTED ARE DRAWN FROM DATA DERIVED FROM FILED/RECORDED MAPS AND DOCUMENTS OF PUBLIC RECORD. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, CENTERLINE OF EXISTING PAVEMENTS AND/OR EXISTING OCCUPATIONAL LINES.

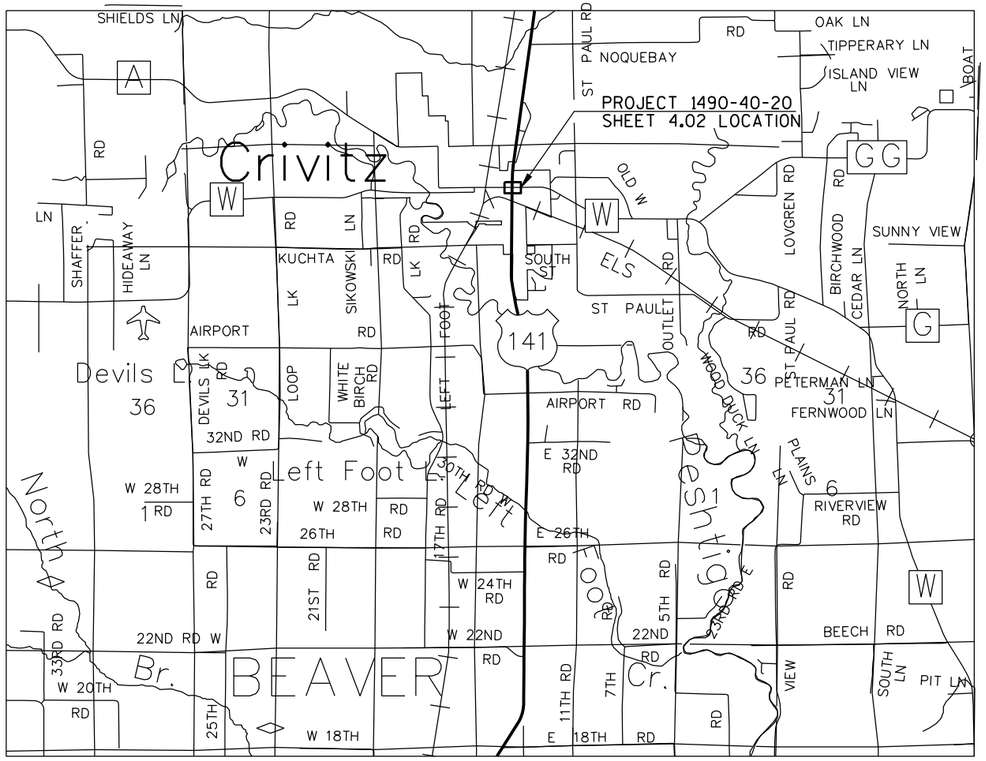
PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE DETAIL PAGE(S).

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE DETAIL PAGE(S).

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.



T – 32 – N

T – 31 – N

R – 20 – E

R – 21 – E

LAYOUT
0 1.0 MI.
SCALE

TOTAL NET LENGTH OF CENTERLINE = 1.00 MI.

GN

REVISION DATE
12/06/2023 N.C.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED:
DATE: 12/07/2023
Cormac [illegible]

WISDOT/CADDS SHEET 100

POINT TABLE				
POINT #	Y	X	STATION	OFFSET
1	197,071.120	707,478.750	1695+89.68	-1,994.80
4	199,732.110	707,498.350	1719+75.03	-2,234.35
41	197,501.908	709,526.086	1701+01.04	33.91
44	197,435.948	709,523.777	1700+35.05	34.21
100	197,516.644	707,482.032	1700+34.99	-2,009.12
101	197,470.858	709,439.411	1700+66.59	-51.46
102	197,525.780	709,493.088	1701+23.59	0.00
103	197,561.720	709,528.214	1701+60.89	33.68
104	197,501.606	709,542.833	1701+01.40	50.66
105	197,435.676	709,538.854	1700+35.37	49.29
106	197,390.378	709,522.207	1699+89.45	34.45T
107	197,390.967	709,487.756	1699+88.68	0.00
108	197,391.548	709,454.204	1699+87.93	-33.55
109	197,415.909	709,450.141	1700+12.11	-38.57
110	197,425.640'	709,447.514	1700+21.73	-41.58
111	197,437.868	709,438.589	1700+33.60	-50.98
112	197,573.049	709,528.617	1701+72.23	33.63
113	197,501.524	709,547.339	1701+01.50	55.17
114	197,435.353	709,556.658	1700+35.75	67.09
115	197,423.458	709,556.444	1700+23.86	67.35
116	197,423.853	709,534.510	1700+23.38	45.42
117	197,378.625	709,453.759	1699+75.00	-33.48
118	197,379.080	709,442.251	1699+75.00	-45.00
123	197,425.839	709,444.100	1700+21.80	-45.00
124	197,435.610	709,436.968	1700+31.28	-52.51
121	197,435.794	709,426.768	1700+31.06	-62.71
122	197,438.144	709,426.810	1700+33.41	-62.76

SURVEY MARK NAIL
MARINETTE CO. MON.
Y=199732.110
X=707498.350

SURVEY MARK NAIL
MARINETTE CO. MON.
Y=197071.120
X=707478.750

PC: 1704+12.84

PT.#102 TO PC: 1704+12.84
N02° 15' 53"E 289.25'

PT.#107 TO PT.# 102
N02° 15' 53"E 134.92'

PT: 1655+13.28

PT: 1655+13.28 TO PT.#107
N02° 15' 53"E 4475.40'

USH 141

VILLAGE

CRIVITZ

CTH W

CTH W

TAX ID#121-00413.002

TAX ID#121-00413.020

TAX ID#121-00413.029

PNT-PNT	BEARING	DISTANCE
100-101	S 88°39'36" E	1957.91'
101-103	N 44°20'36" E	127.05'
103-104	S 13°40'06" E	61.87'
104-105	S 03°27'14" W	66.05'
105-106	S 20°10'31" W	48.27'
106-108	N 89°00'29" W	68.01'
108-109	N 09°28'05" W	24.70'
109-110	N 15°06'33" W	10.08'
110-111	N 36°07'27" W	15.14'
111-101	N 01°25'36" E	33.00'

BASIS OF EXISTING R/W

ROAD NAME	PROJECT	YEAR
U.S.H 41	348-C/226 RE-OP	1932
"	3572	1940
"	S 0103(3)	1957
"	1494-05-21/	
	(HEA 040(1)	1980
"	1491-0901-4.17	2015

SE 1/4 - NW 1/4

OF

PLE VISION CORNER & DEVELOPMENT RESTRICTION
JKT. 0968 I.47
DOC.#425369
PROJECT#1494-05-21/HES 040(1)

PLE VISION CORNER & ACCESS CONTROL
JKT. 0945 I.30
DOC.#424705
PROJECT#1494-05-21/
HES 040(1)

PLE VISION CORNER & ACCESS CONTROL
JKT. 0945 I.28
DOC.#424704
PROJECT#1494-05-21/
HES 040(1)

+/-3' DIST. TO BLDG

+/-2' DIST. TO BLDG

TLE SLOPING
255 sq. ft.

TLE SLOPING

TLE SLOPING
236 SQ. FT.

SEE SEC PC

N00° 25' 19"E 2661.06'

S88° 39' 36"E 1957.91'

2215.52'

445.54'

50.25'

76.80'

33.56'

34.45'

1700+

66'

68'

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	FEE R/W (S.F.) REQUIRED			T.L.E. AREA
			NEW	EXISTING	TOTAL	
1	SCOTT C. BUSICK	FEE & TLE	271	0	271	474
2	CRIVITZ GATEWAY, LTD.	FEE & TLE	501	0	501	255
3	SOARING HAWK INVESTMENTS LLC.	FEE & TLE	344	0	344	236

NOTE: SEE SHEET 4.03 FOR UTILITY DETAIL SHEET

REVISION DATE
12/06/2023

DATE 07/27/2023

0 15 30
GRAPHIC SCALE, FEET

HWY: USH 141

COUNTY: MARINETTE

STATE R/W PROJECT NUMBER 1490-40-20

CONSTRUCTION PROJECT NUMBER 1490-40-71

PLAT SHEET NO: 4.02

PS&E SHEET NO: 122 - E

SURVEY MARK NAIL
MARINETTE CO. MON.
Y=199732.110
X=707498.350

T 32 N
R 20 E
16 15
21 22

VILLAGE

105 30' EASEMENT
NORTHERN PAPER MILLS
DOC.#128649A
ASSIGNMENT
DOC.#133694
TRANSFER
DOC.#183672
ASSIGNMENT
DOC.#608947
CORRECTION
DOC.#686486
PARCEL 2

105 30' EASEMENT
NORTHERN PAPER MILLS
DOC.#129039A
ASSIGNMENT
DOC.#133694
TRANSFER
DOC.#183672
ASSIGNMENT
DOC.#608947
CORRECTION
DOC.#686486
PARCEL 2

USH 141

100 AGREEMENT
RESIDENTIAL USE
RESTRICTION
ATC LLC.
DOC.#689288
EASEMENT DATED 03/31/1925
VOL.116, PG. 394
DOC.#129039
CONSENT TO RESTRICTION AGREEMENT
ATC LLC
DOC.#689289
PARCEL 2

101

TAX ID#121-00413.002

2
TLE SLOPING
255 sq. ft.

100

102

100 30' EASEMENT
NORTHERN PAPER MILLS
DOC.#128649A
ASSIGNMENT
DOC.#133694
TRANSFER
DOC.#183672
ASSIGNMENT
DOC.#608947
CORRECTION
DOC.#686486
PARCEL 2

100 30' EASEMENT
NORTHERN PAPER MILLS
DOC.#129039A
ASSIGNMENT
DOC.#133694
TRANSFER
DOC.#183672
ASSIGNMENT
DOC.#608947
CORRECTION
DOC.#686486
PARCEL 2

102 UTILITY EASEMENT
WISCONSIN TELEPHONE COMPANY
VOL.233 PG. 248
DOC.#287600
PARCEL 2

GN

2215.52'

N00° 26' 19"E 2661.96'

CTH W

SE 1/4 - NW 1/4

66'

CTH W

OF

SAN
WV
GUY
WV
WV

103

104

TLE SLOPING
29 sq. ft

TLE SLOPING
236 SQ. FT.

106 UTILITY EASEMENT-BLANKET
WISCONSIN PUBLIC SERVICE
DOC.#185595
PARCEL 3

100 30' EASEMENT
NORTHERN PAPER MILLS
DOC.#128649A
ASSIGNMENT
DOC.#133694
TRANSFER
DOC.#183672
ASSIGNMENT
DOC.#608947
CORRECTION
DOC.#686486
PARCEL 3

445.54'

SURVEY MARK NAIL
MARINETTE CO. MON.
Y=197071.120
X=707478.750

T 32 N
R 20 E
21 22

TAX ID#121-00413.029

1

TLE SLOPING
419 sq. ft.

102

1700

101

3

TAX ID#121-00413.020

105 30' EASEMENT
NORTHERN PAPER MILLS
DOC.#128649A
ASSIGNMENT
DOC.#133694
TRANSFER
DOC.#183672
ASSIGNMENT
DOC.#608947
CORRECTION
DOC.#686486
PARCEL 3

68'

CRIVITZ

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	ATC MANAGEMENT, INC.	RELEASE OF RIGHTS
101	WISCONSIN PUBLIC SERVICE CORPORATION - GAS	RELEASE OF RIGHTS
102	BRIGHTSPEED OF WESTERN WISCONSIN, LLC	RELEASE OF RIGHTS
103	CCI SYSTEMS, INC.	RELEASE OF RIGHTS
104	VILLAGE OF CRIVITZ - WATER	RELEASE OF RIGHTS
105	WISCONSIN ELECTRIC POWER CO.	RELEASE OF RIGHTS
106	WISCONSIN PUBLIC SERVICE CORPORATION - ELECTRIC	RELEASE OF RIGHTS

**NOTE SEE SHEET 4.02 FOR ACQUISITION INTEREST

102 30' RIGHT OF WAY EASEMENT
PTI COMMUNICATIONS DBA CENCOM OF WIS.
J.4409 I.31
DOC.#520455
J.4409 I.33
DOC.#520456
PARCEL 1

UTILITY DETAIL SHEET

REVISION DATE 12/06/2023	DATE 07/27/2023	0 15 30 GRAPHIC SCALE, FEET	HWY: USH 141	STATE R/W PROJECT NUMBER 1490-40-20	PLAT SHEET NO: 4.03
			COUNTY: MARINETTE	CONSTRUCTION PROJECT NUMBER 1490-40-71	PS&E SHEET NO: 123 - E

BEGIN PROJECT
STA 1639+00.00
Y=191,318.658
X=709,495.446
MATCH EXISTING
BUTT JOINT REQ'D

GRAVEL PE
(MATCH EXISTING)

USH 141 R/L

MILL 2"
PAVE 2" HMA PAVEMENT 4 MT 58-28 S

EXISTING R/W (TYP)

N

1640

1645

USH 141

1650

MATCH LINE 1654+00

GRAVEL SIDE ROAD
(MATCH EXISTING)

ASPHALT SIDE ROAD
(MATCH EXISTING)

OWL LN

110'

OWL LN R/L

FINNELLI AVE

FINNELLI AVE R/L

127'

5

5

N

MATCH LINE 1654+00

USH 141 R/L

MILL 2"
PAVE 2" HMA PAVEMENT 4 MT 58-28 S

INSTALL ASPHALTIC FLUME
(SEE DETAIL)

1655

1660

USH 141

1665

MATCH LINE 1669+00

EXISTING R/W (TYP)

ASPHALT SIDE ROAD
(MATCH EXISTING)

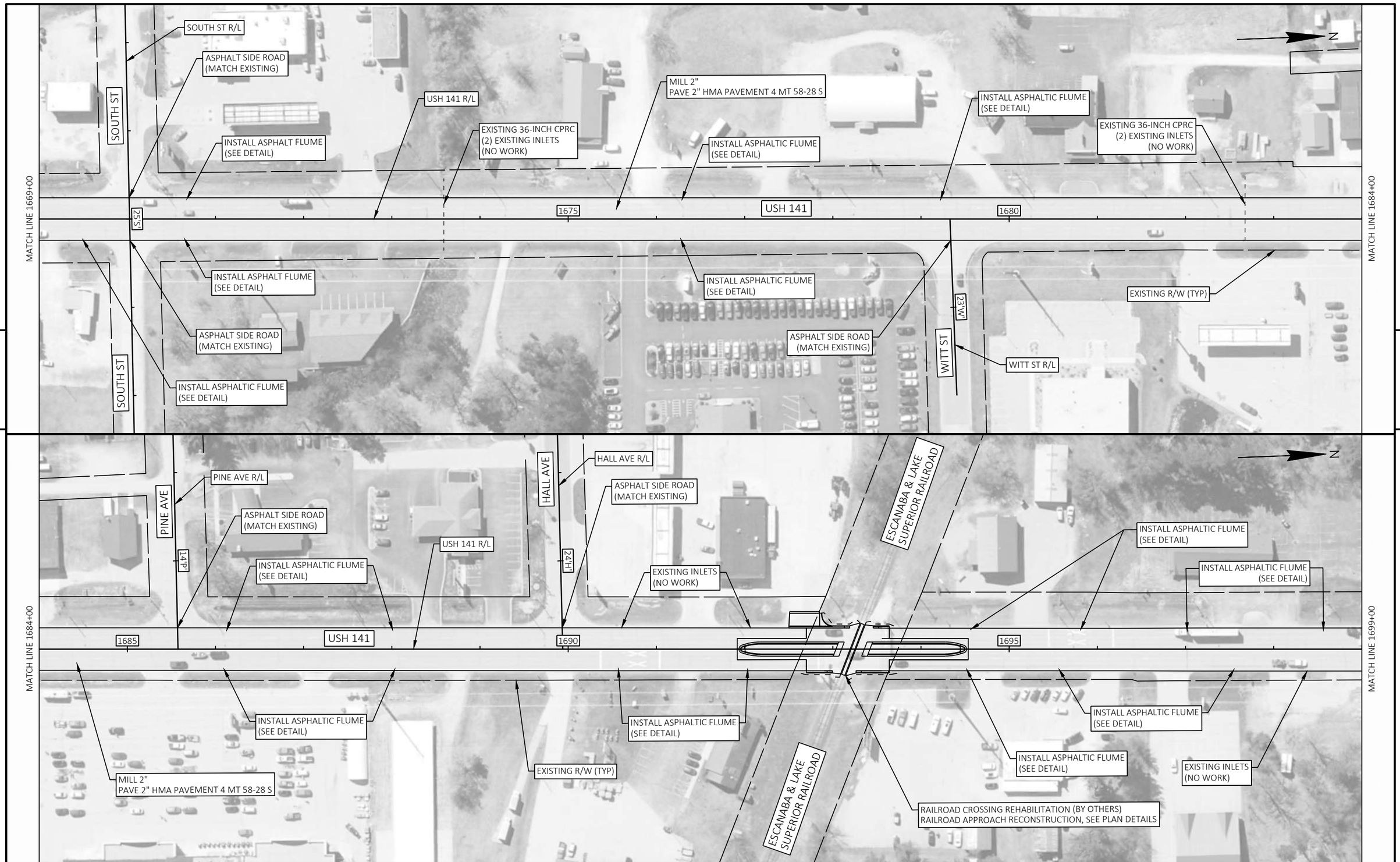
INSTALL ASPHALTIC FLUME
(SEE DETAIL)

DESCHANE AVE

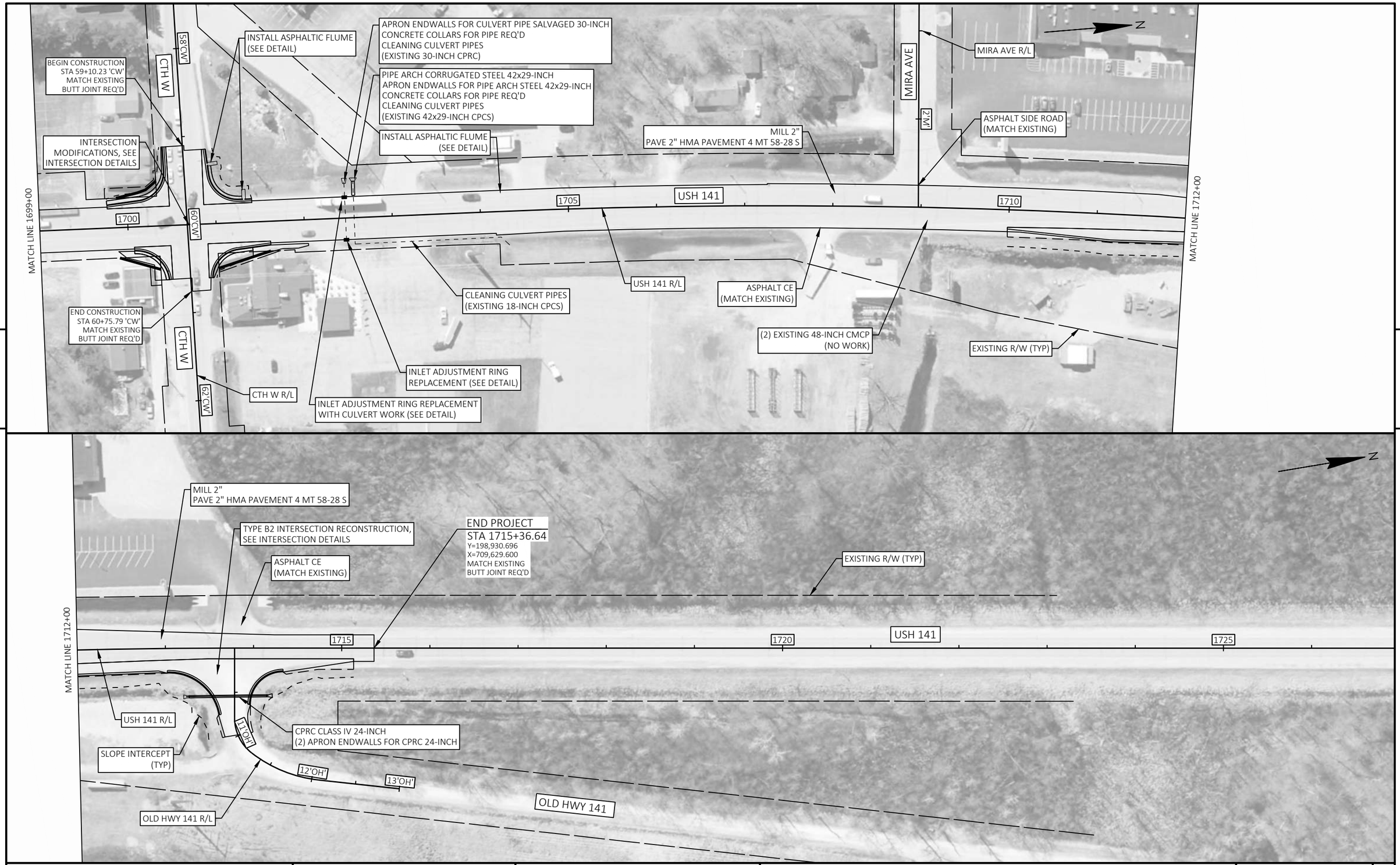
DESCHANE AVE R/L

120'

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PLAN SHEETS	SHEET 124	E



PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PLAN SHEETS	SHEET 125 E

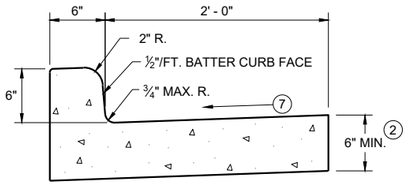


PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PLAN SHEETS	SHEET 126	E

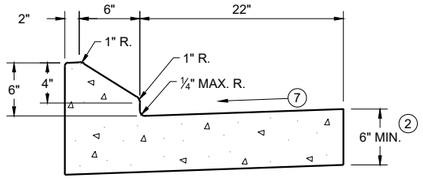
Standard Detail Drawing List

08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D16-11	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-14A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09B02-10	CONDUIT
09B16-02	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C11-10	CONCRETE BASE TYPE 10
09C15-01	CONCRETE BASE TYPE 10 SPECIAL
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09E01-15A	POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E08-09A	TYPE 9 POLE 15'-30' MONOTUBE ARM
09E08-09B	TYPE 9 SPECIAL POLE 35' MONOTUBE ARM
09E08-09C	TYPE 9 SPECIAL POLE 40' MONOTUBE ARM
09E08-09K	GENERAL NOTES,HARDWARE DETAILS FOR TYPE 9/10,9/10 SPECIAL,12 & 13 POLES W/MONOTUBE ARMS
09F10-04	LOOP DETECTOR INSTALLED IN EXISTING OR NEW ASPHALTIC PAVEMENT WITH NEW ASPHALTIC OVERLAY
09F11-04	LOOP DETECTOR INSTALLED IN EXISTING CONCRETE PAVEMENT WITH NEW ASPHALTIC OVERLAY
10A01-04	ELECTRICAL HANDHOLE WIRING
11B02-02	CONCRETE MEDIAN NOSE
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13B01-11A	PAVEMENT DETAILS FOR RAILROAD APPROACH
13B01-11B	TYPICAL SECTIONS FOR RAILWAY APPROACH
13C19-03	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-09H	MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-23C	PAVEMENT MARKING (TURN LANES)
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C09-13A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-09A	MEDIAN ISLAND MARKINGS
15C18-09B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C19-09B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D40-05A	TRAFFIC CONTROL, FULL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D40-05C	TRAFFIC CONTROL, PARTIAL LANE SHIFT NON-FREEWAY/EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D50-03A	TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT
15D50-03B	TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT

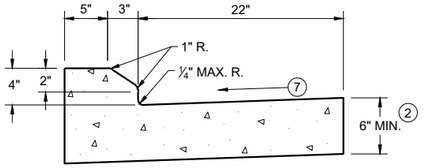
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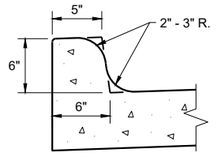
TYPES A (1) & D



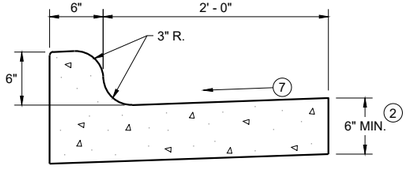
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

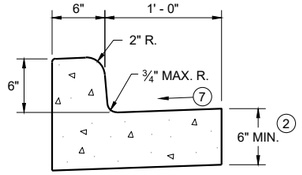


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



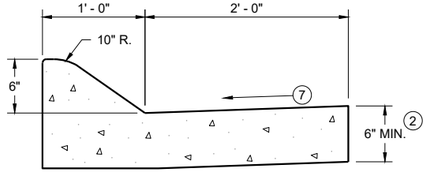
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

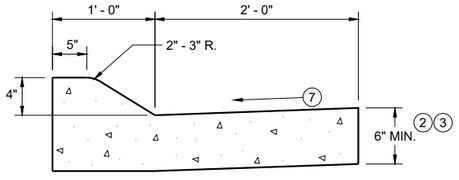


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

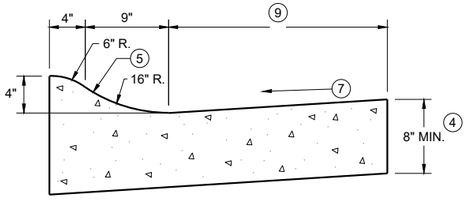


6" SLOPED CURB TYPES A (1) & D



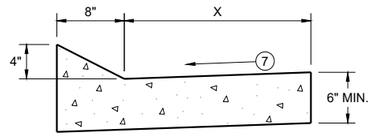
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

TBT & TBTT	X
30"	22"
36"	28"

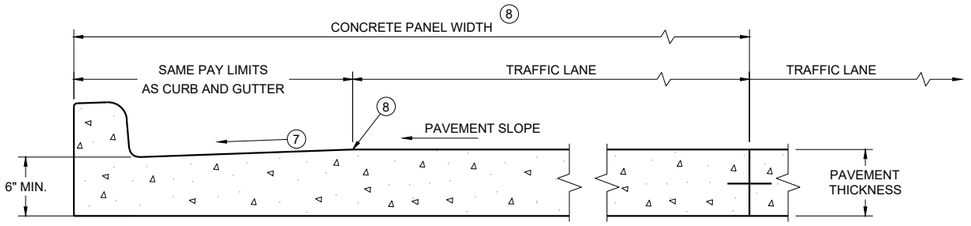


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

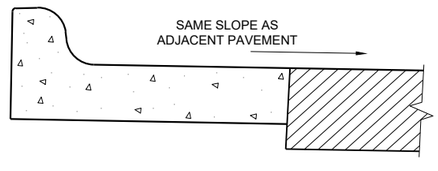
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(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.

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.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

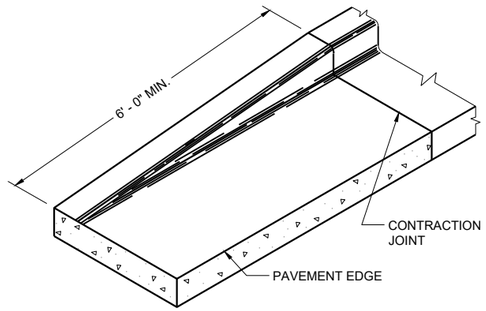
(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

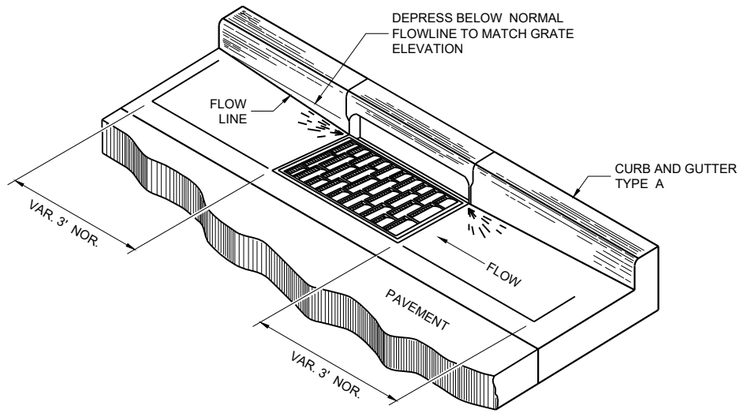
CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D01-23a



END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

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.

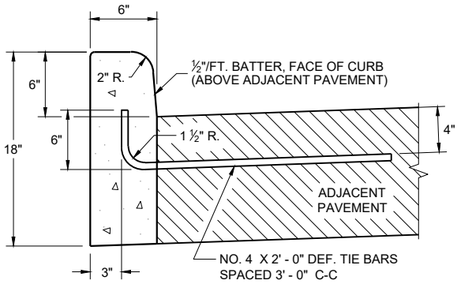
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

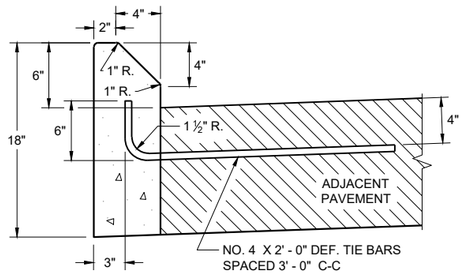
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(10) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

(11) 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.

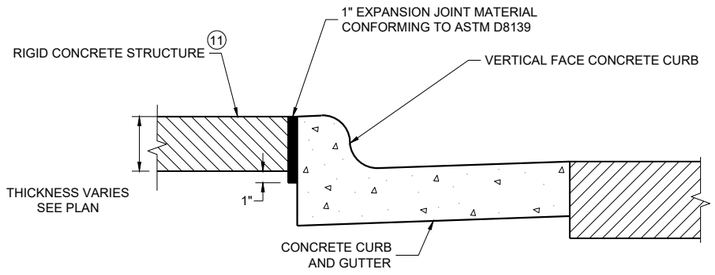


TYPES A (1) & D

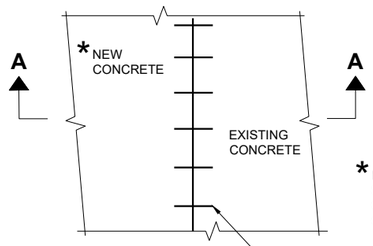


TYPES G (1) & J

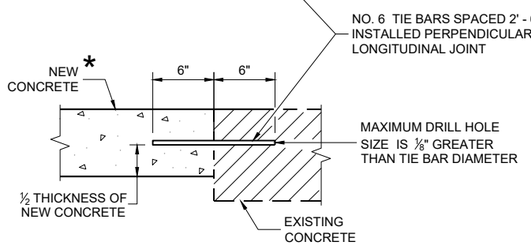
CONCRETE CURB



EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)

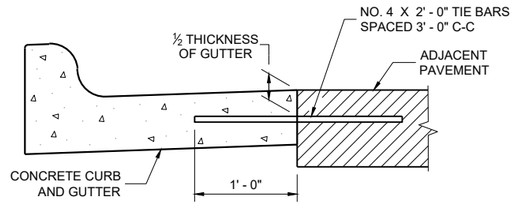


PLAN VIEW

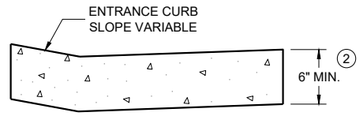


SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (10)

(WHEN DIRECTED BY THE ENGINEER)

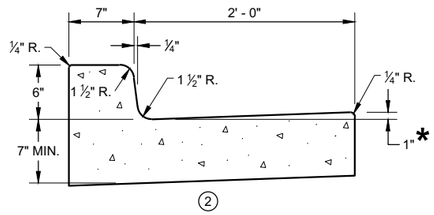
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

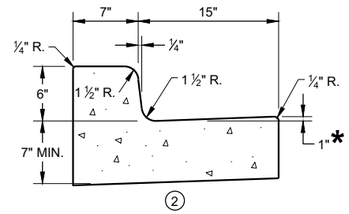
FHWA

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SDD 08D01-23b

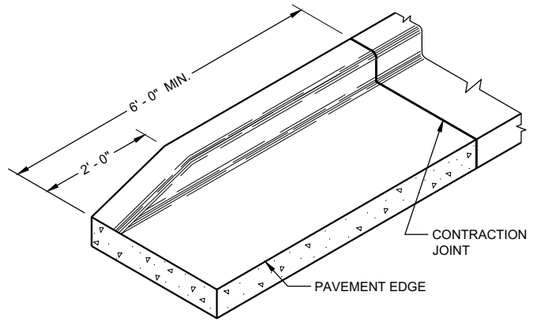


CONCRETE CURB AND GUTTER 31" ①

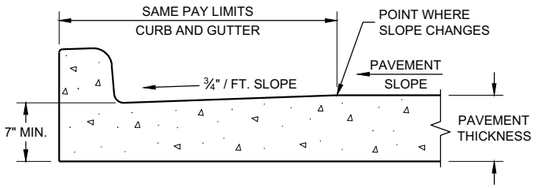
*TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



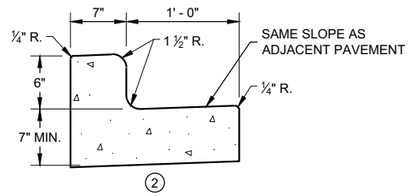
CONCRETE CURB AND GUTTER 22" ①



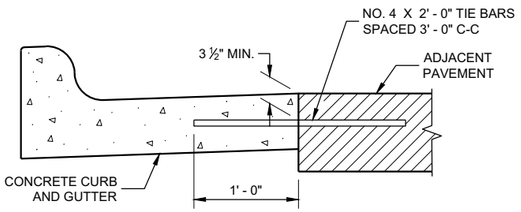
END SECTIONCURB AND GUTTER



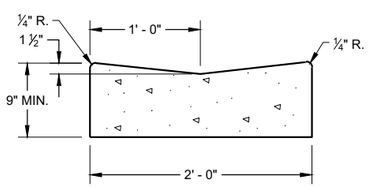
PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER



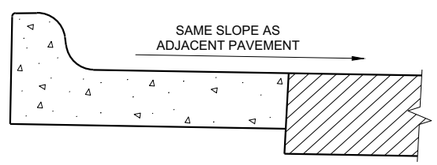
CONCRETE CURB AND GUTTER 19" ①



TYPICAL TIE BAR LOCATION ①



CONCRETE GUTTER 24" 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.

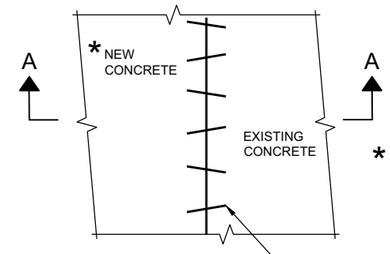
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

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".

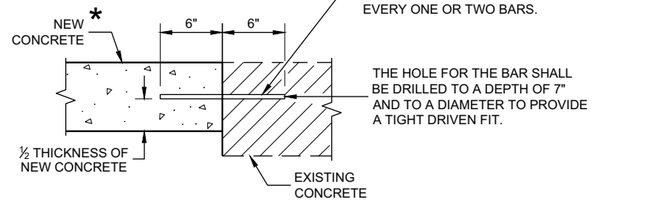
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLANS



*EXISTING AND NEW CONCRETE MAY BE CURB AND GUTTER, SURFACE DRAINS, PAVEMENT OR OTHER CONCRETE STRUCTURE.

PLAN VIEW



SECTION A - A

PAVEMENT TIES

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

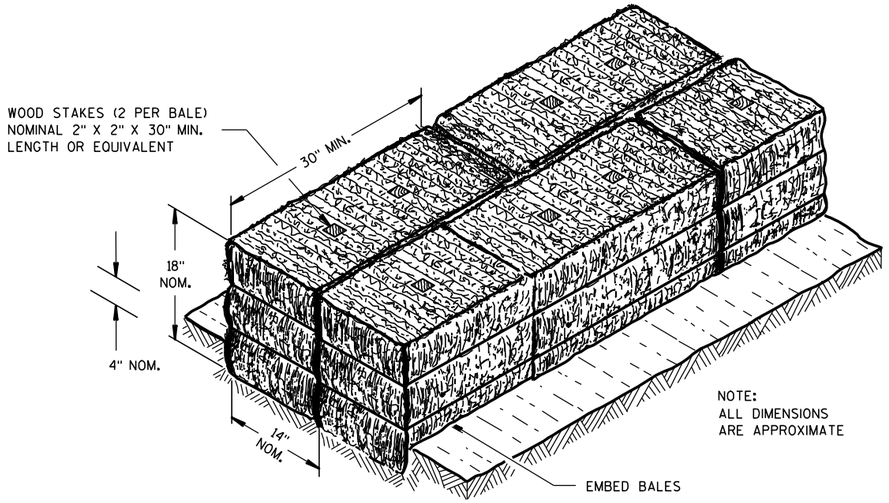
(For Optional use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

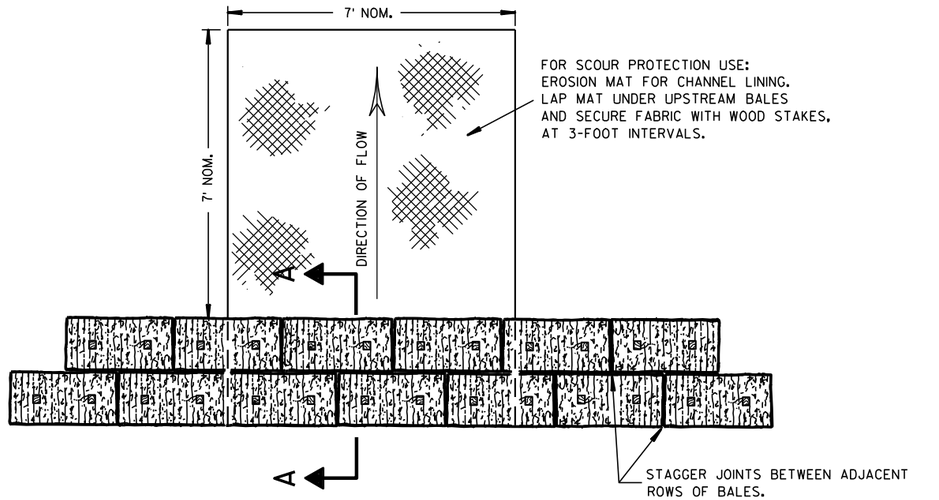
APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

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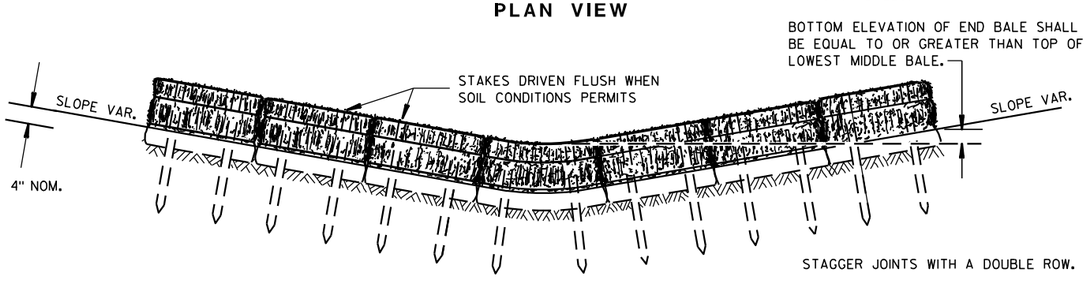
SDD 08D16 - 11



SECTION A-A



PLAN VIEW



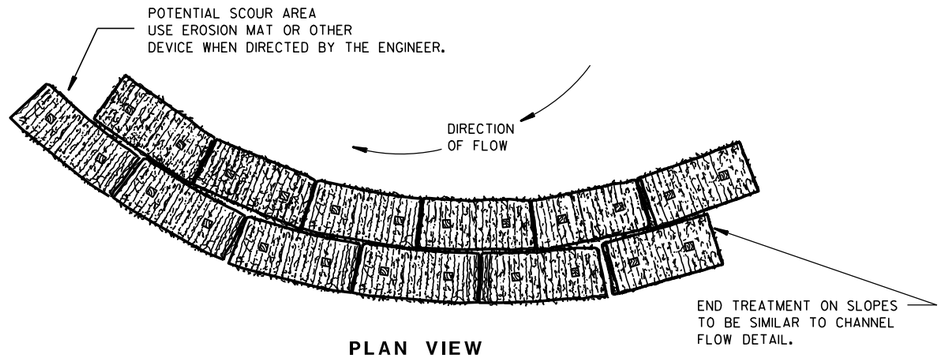
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

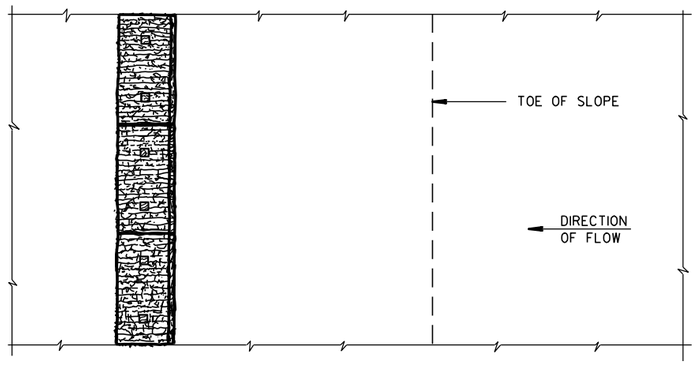
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

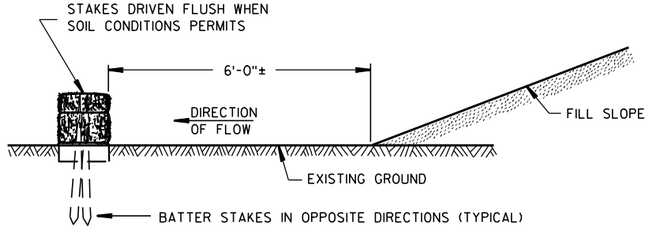


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

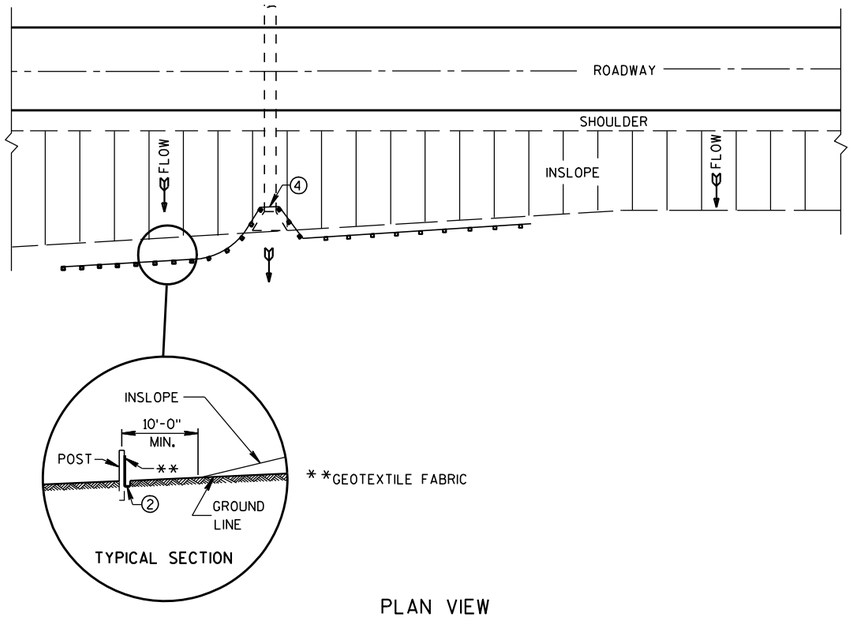
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 DATE — /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

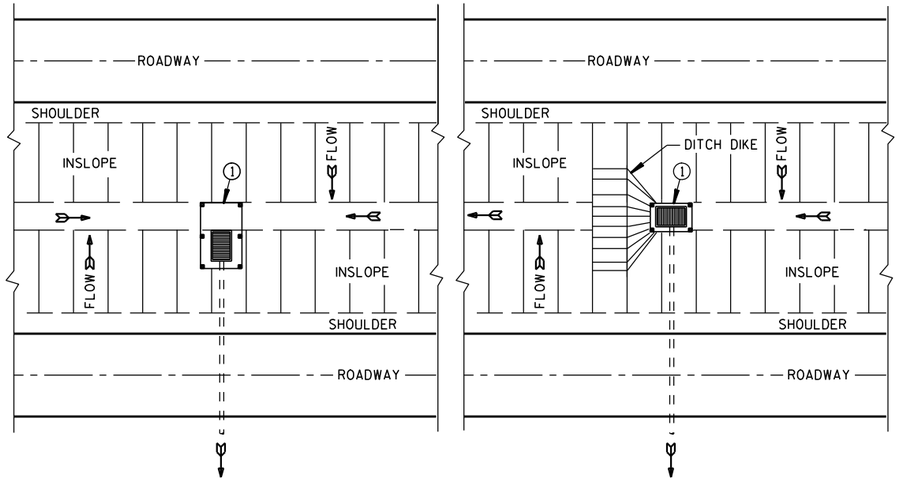
FHWA

6
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



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.

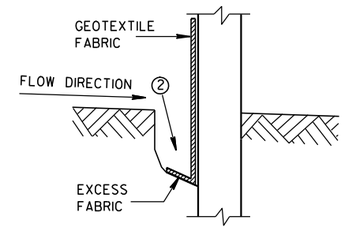
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

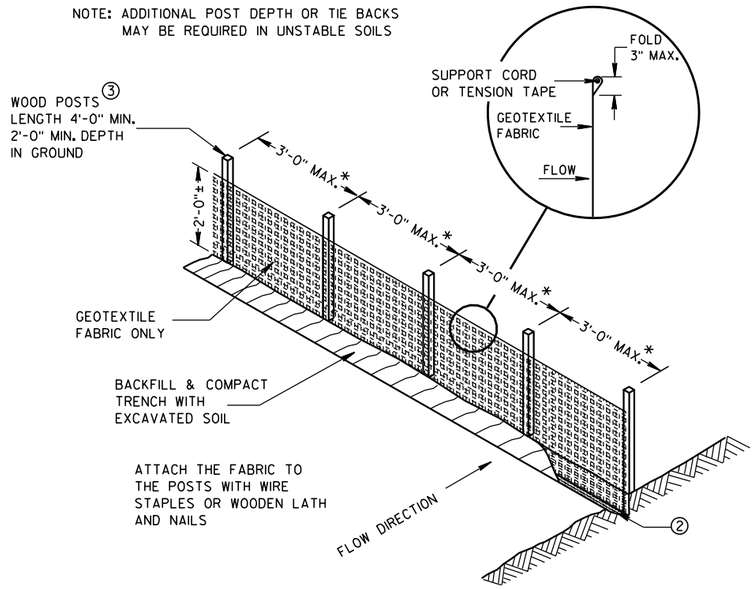
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

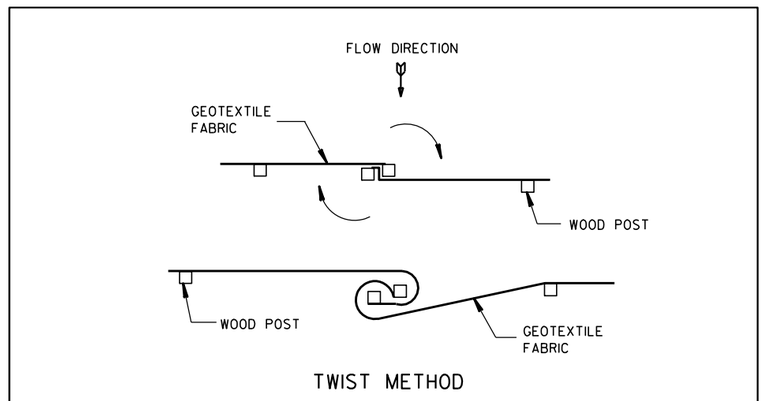
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



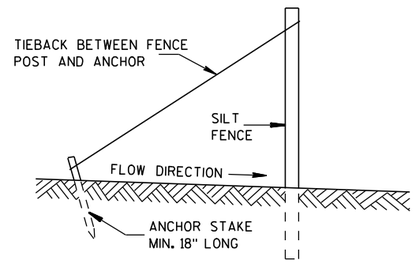
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

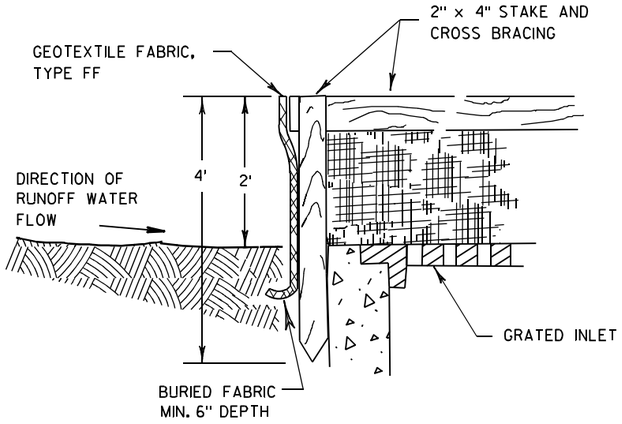
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

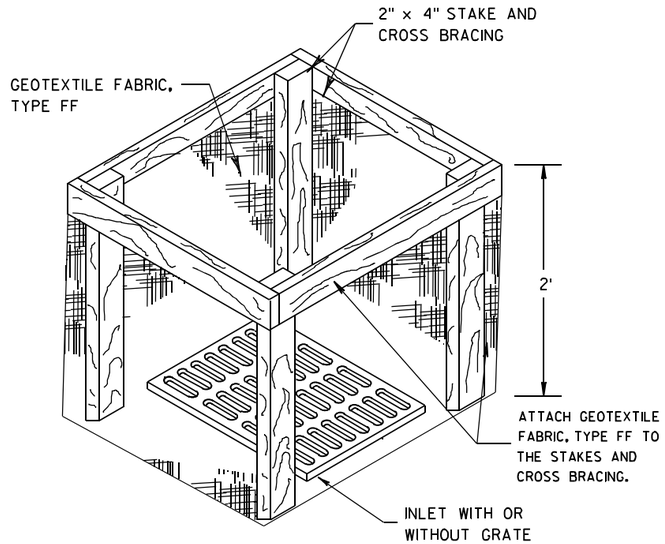
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S.D.D. 8 E 9-6

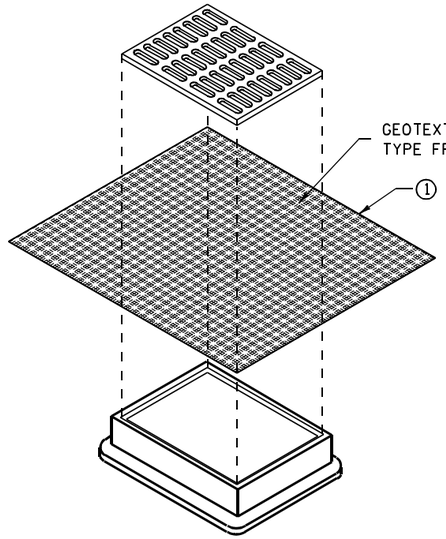
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S.D.D. 8 E 9-6



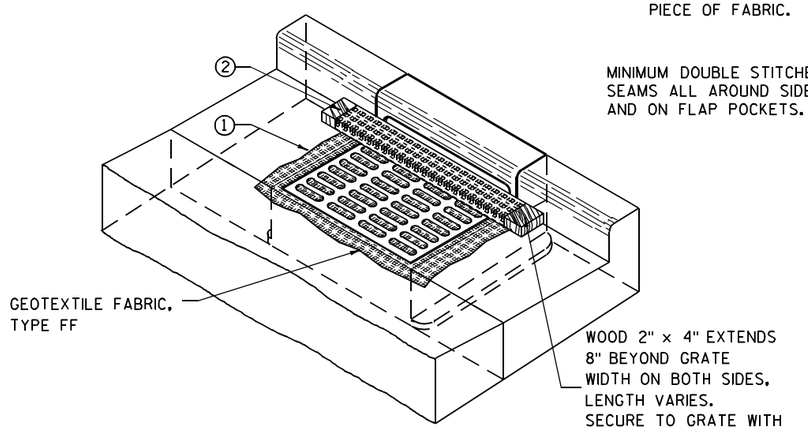


INLET PROTECTION, TYPE A

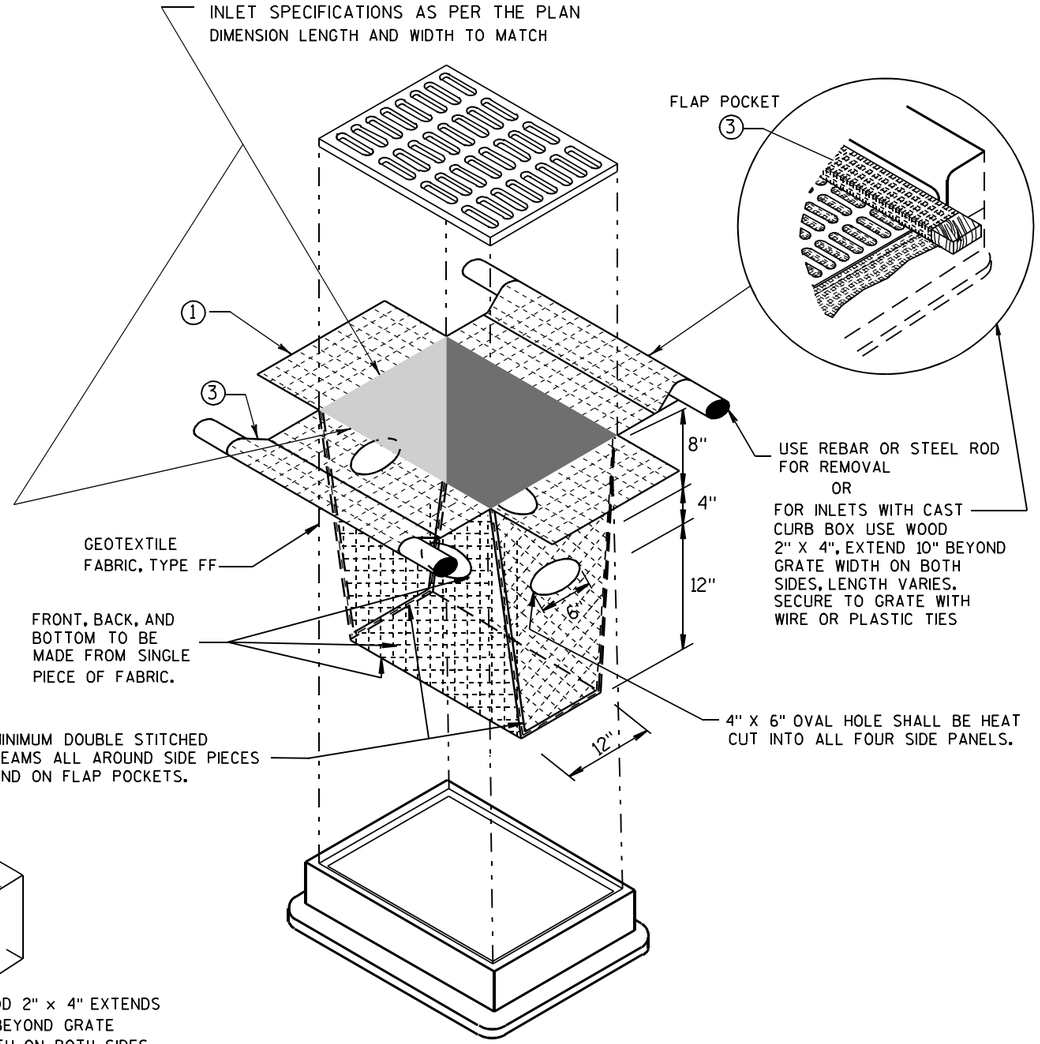


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

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 SUBSTITUTED.

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.

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

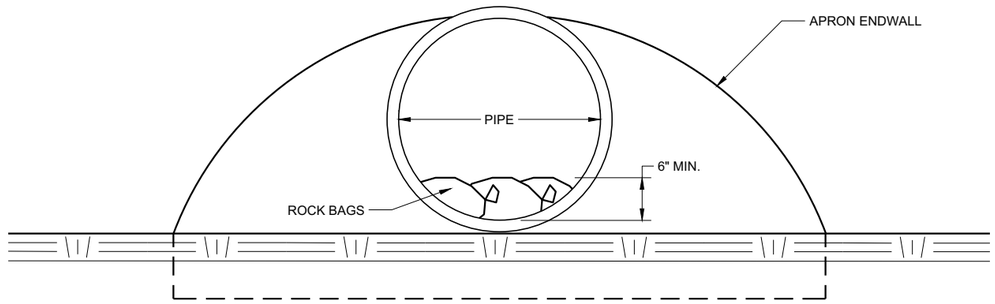
APPROVED

10/16/02
DATE

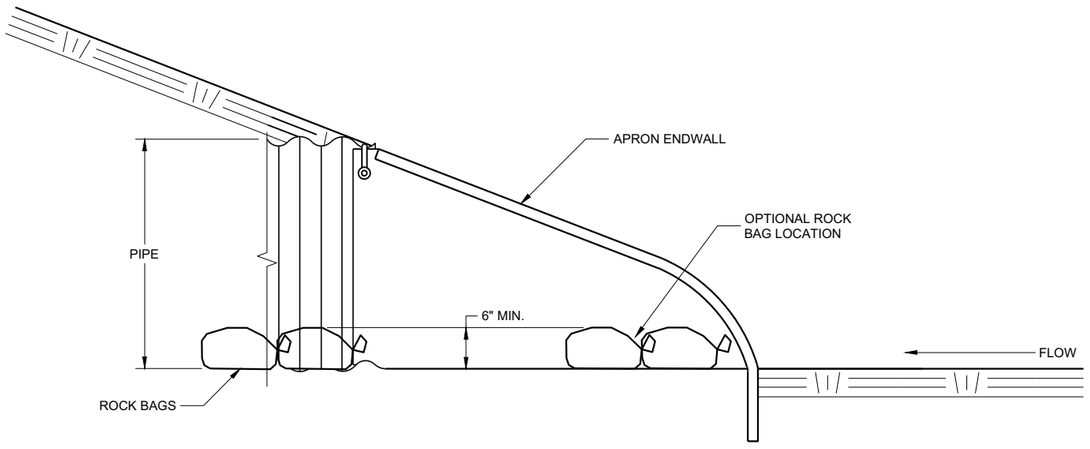
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Daniel Schave
EROSION CONTROL ENGI

FHWA

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SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

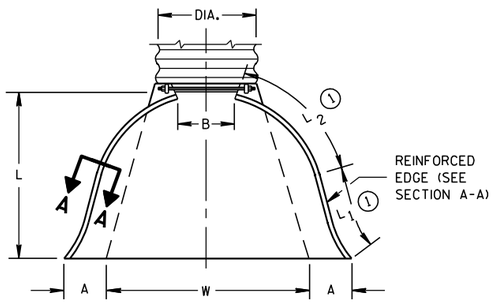
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

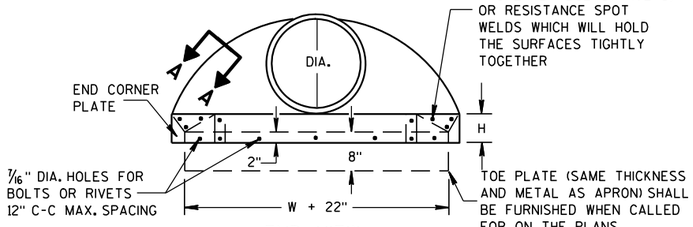
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

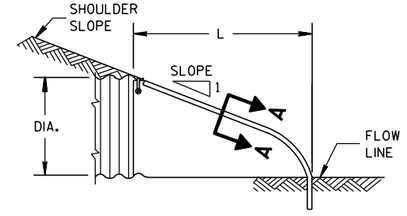
*MINIMUM
**MAXIMUM



PLAN VIEW

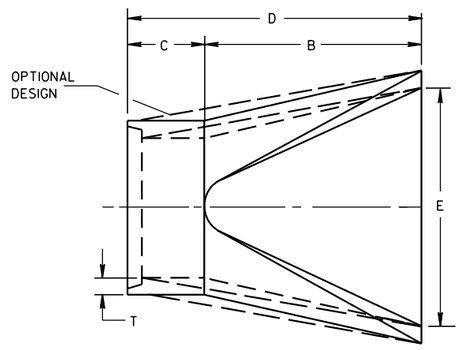


END VIEW

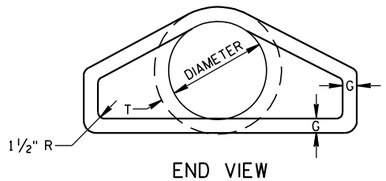


SIDE ELEVATION

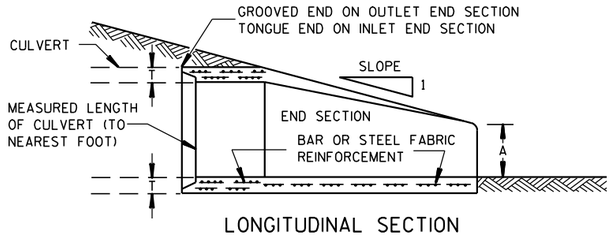
METAL ENDWALLS



PLAN

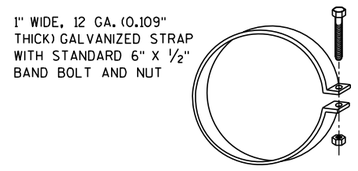


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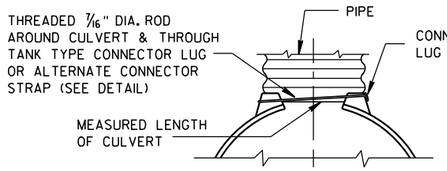
LONGITUDINAL SECTION

CONCRETE ENDWALLS

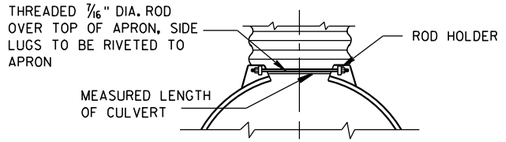


ALTERNATE FOR TYPE 1 CONNECTION

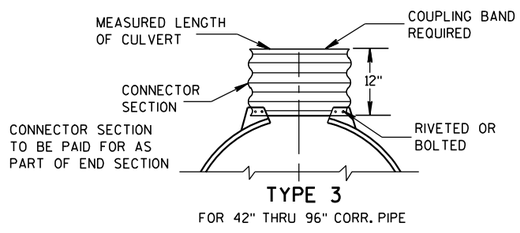
END SECTION CONNECTOR STRAP



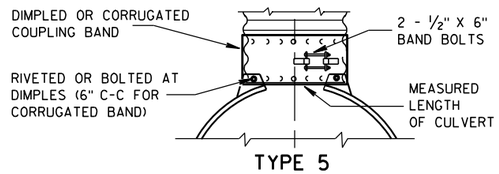
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

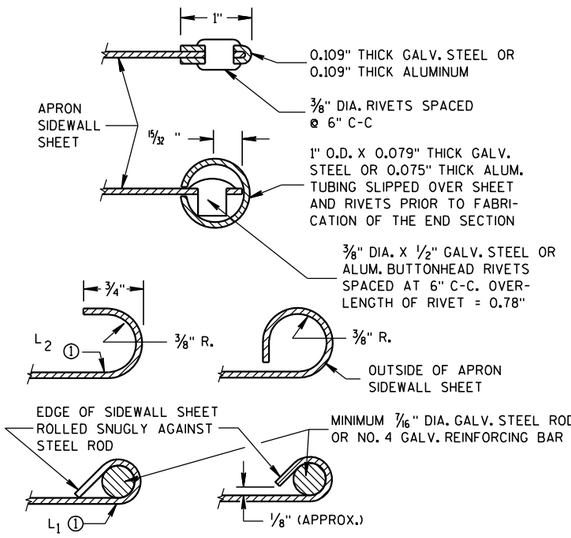
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

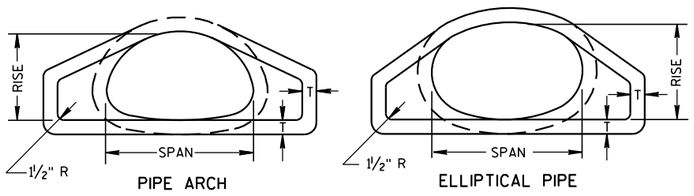
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

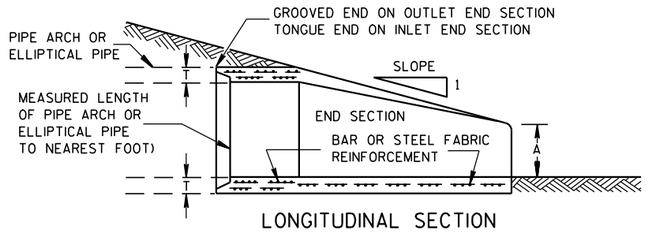
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

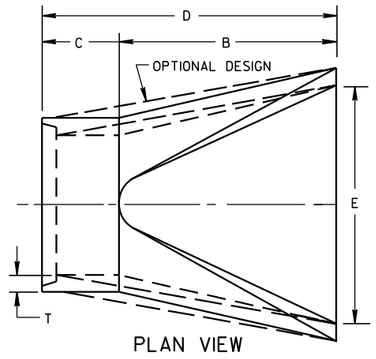
6
S.D.D. 8 F 1-11



END VIEW

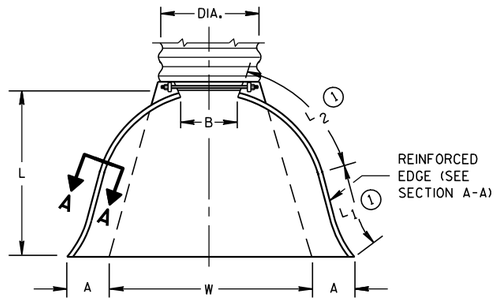


LONGITUDINAL SECTION

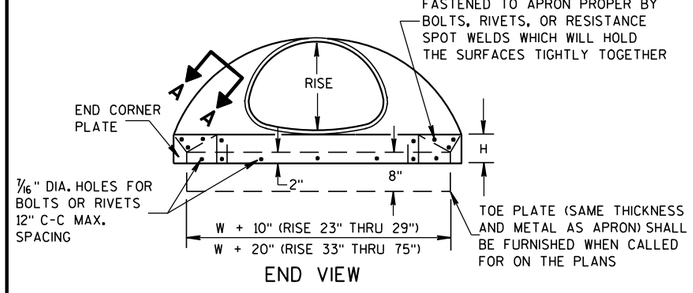


PLAN VIEW

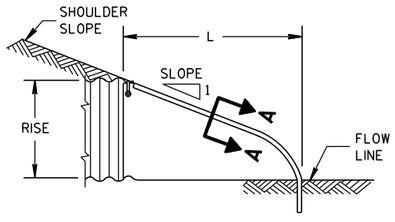
CONCRETE ENDWALLS



PLAN VIEW

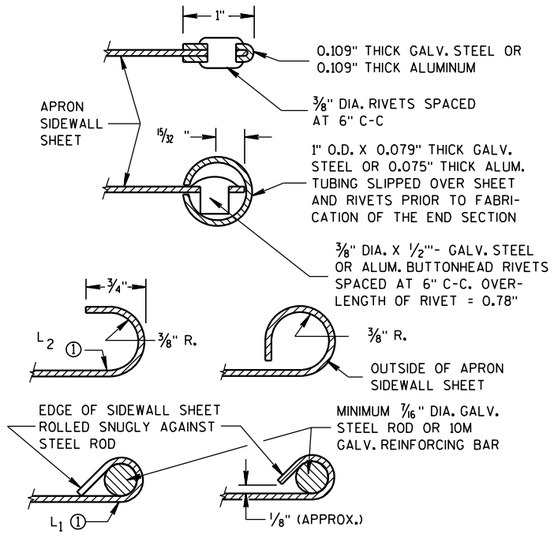


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

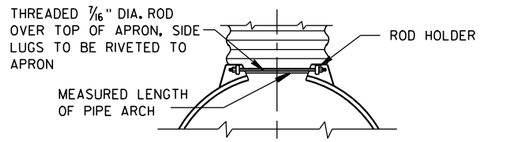
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

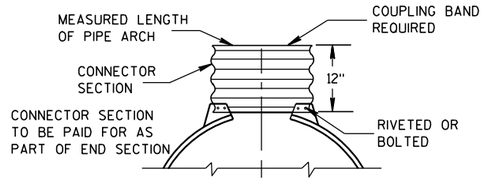
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



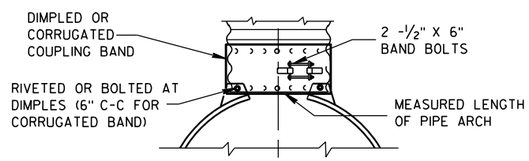
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

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

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

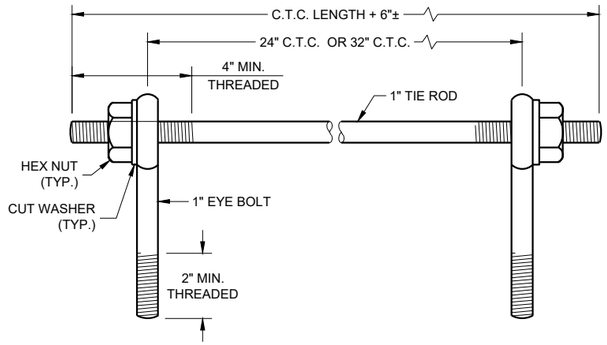
FHWA

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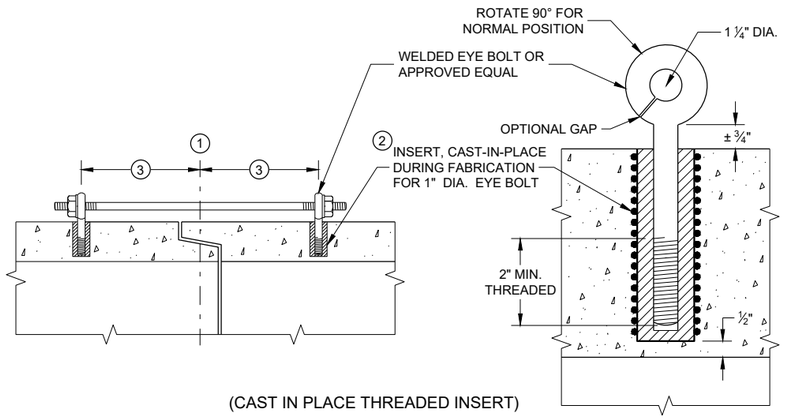
S.D.D. 8 F 2-1

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

(1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

(2) THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

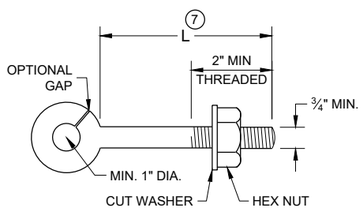
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

(4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

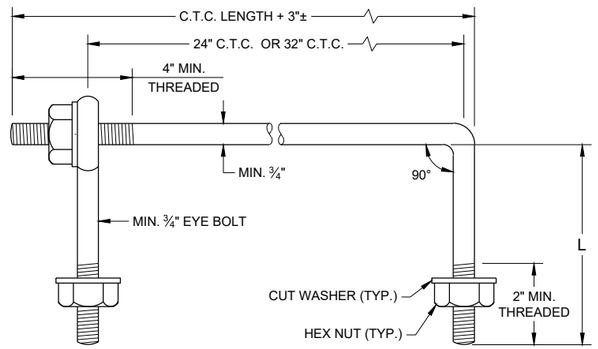
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

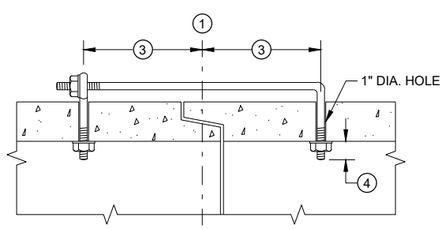


EYE BOLT (7)

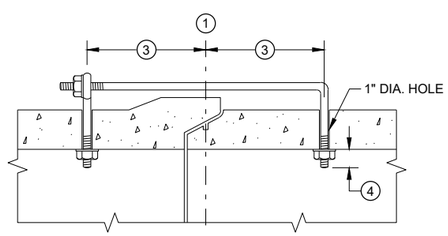
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

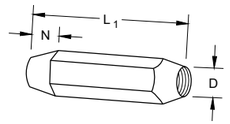
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

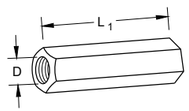
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



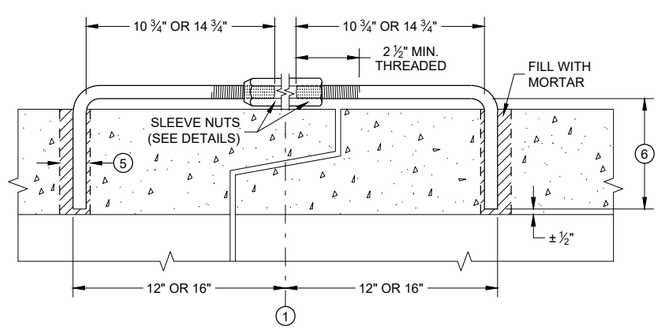
TAPERED



PLAIN

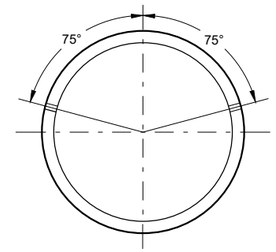
RIGHT AND LEFT THREADS

SLEEVE NUTS



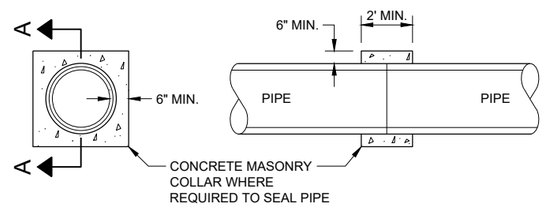
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

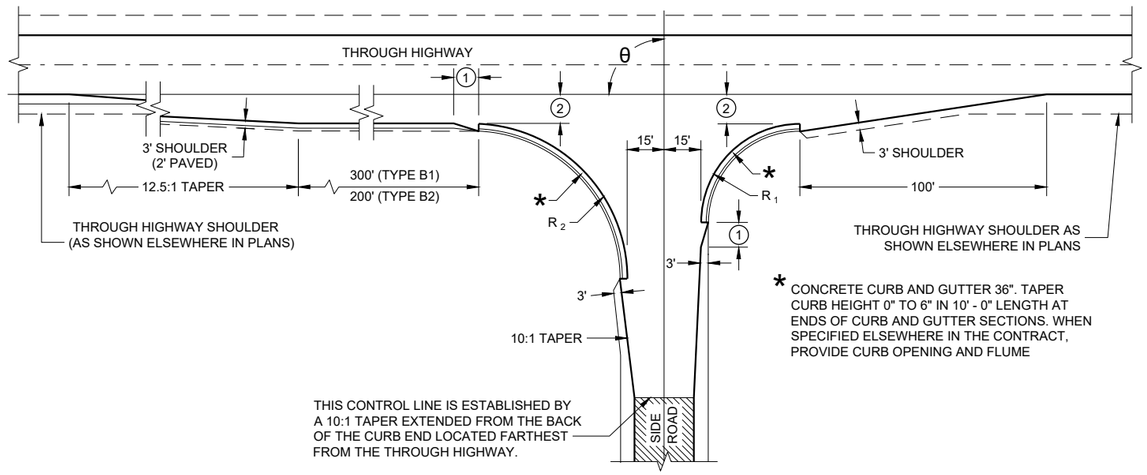
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

SDD 08F04 - 08

SDD 08F04 - 08



* CONCRETE CURB AND GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10' - 0" LENGTH AT ENDS OF CURB AND GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME

TYPE "B1" AND "B2"

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65 - 70	35	70
71 - 80	40	70
81 - 90	40	60
91 - 100	50	55
101 - 110	60	45

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

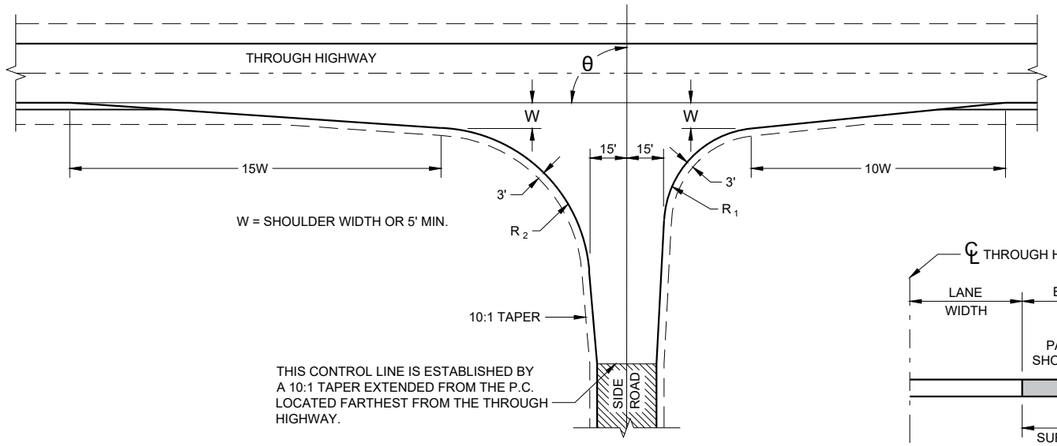
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

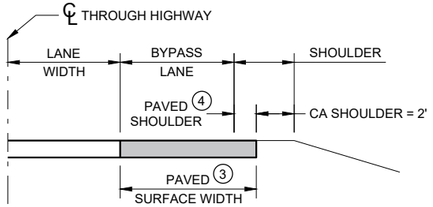
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
- ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH
- PC CONCRETE = 13-FT PLUS PAVED SHOULDER WIDTH

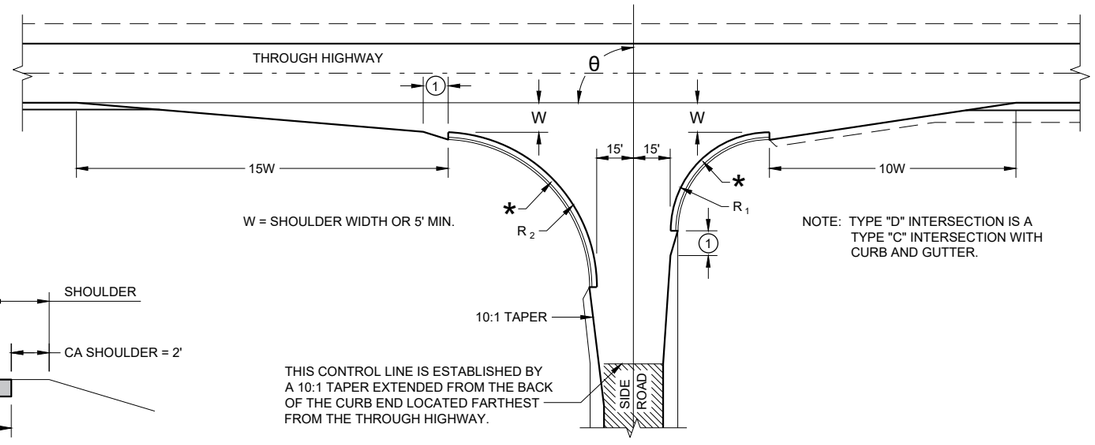
(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



TYPE "C"

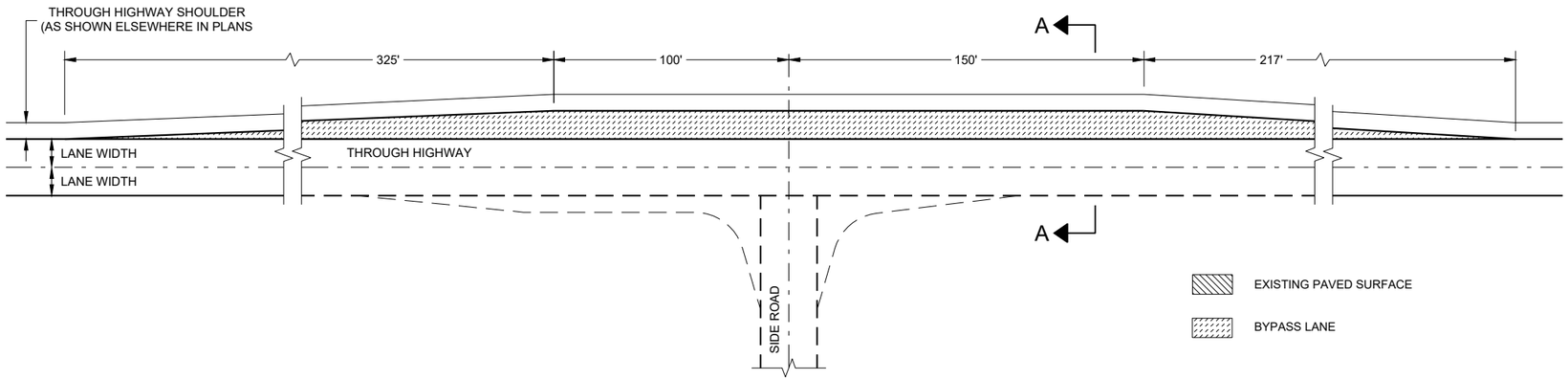


SECTION A - A
(SHOWING BYPASS LANE AND SHOULDER)



NOTE: TYPE "D" INTERSECTION IS A TYPE "C" INTERSECTION WITH CURB AND GUTTER.

TYPE "D"



TEE INTERSECTION BYPASS LANE DETAIL

AT GRADE SIDE ROAD INTERSECTION TYPES "B1", "B2", "C", "D" AND TEE INTERSECTION BYPASS LANE

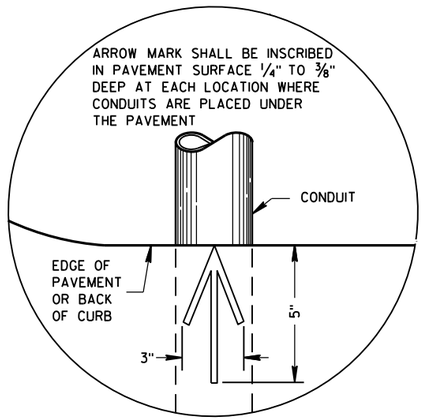
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 09A01 - 14a

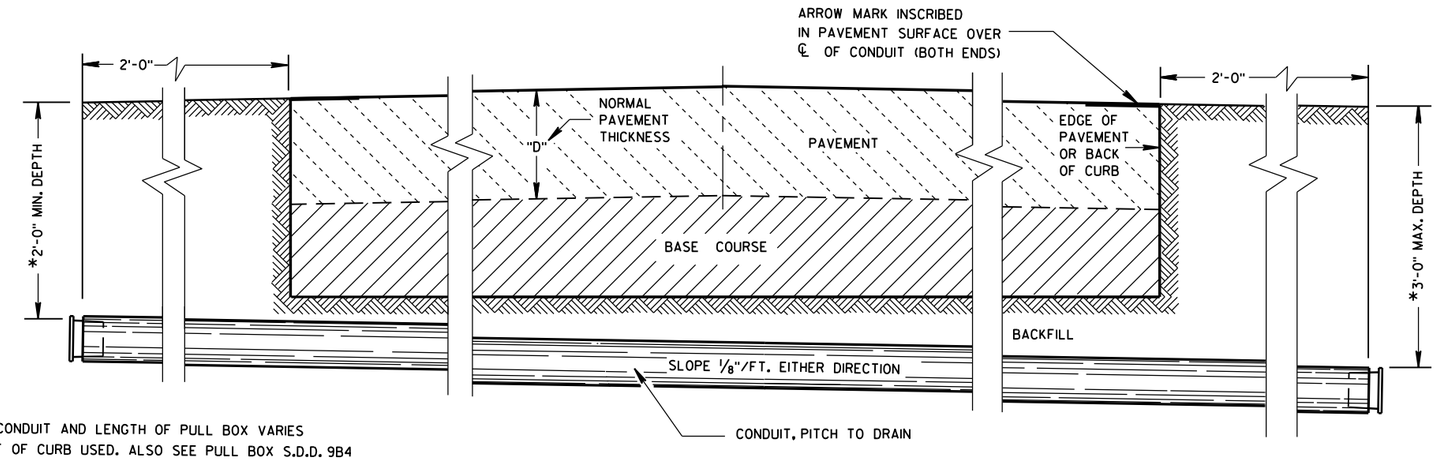
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SDD 09A01 - 14a



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES 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 REINSTALLED 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 ATTACHED.

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 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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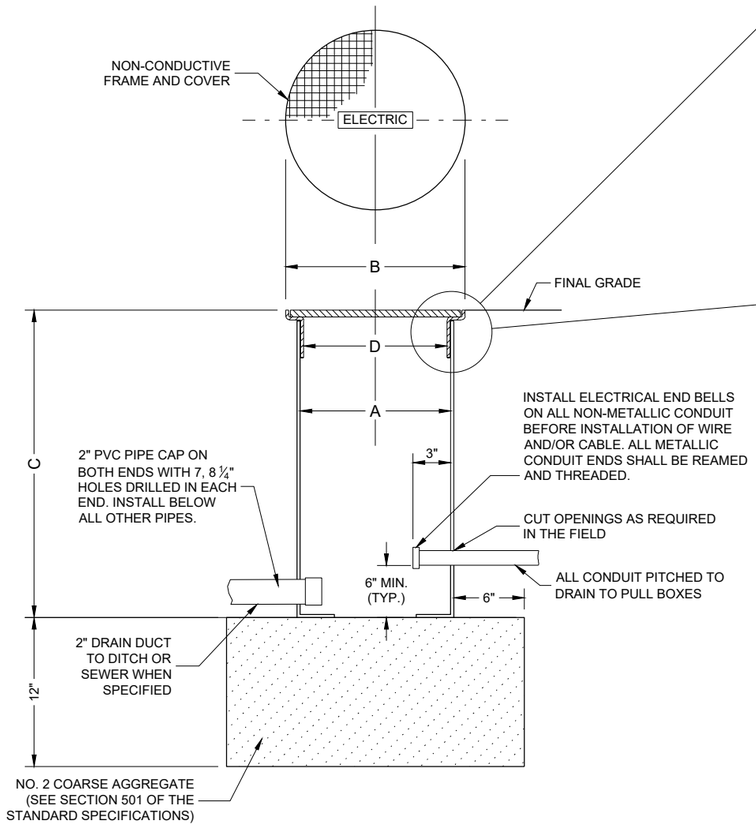
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

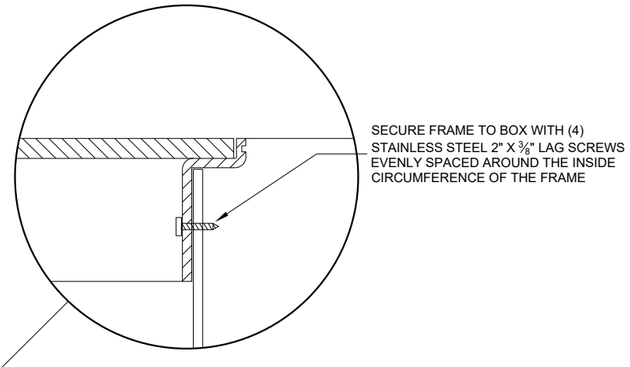
DIMENSION IN INCHES		NON- CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 ½	22 ½
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.

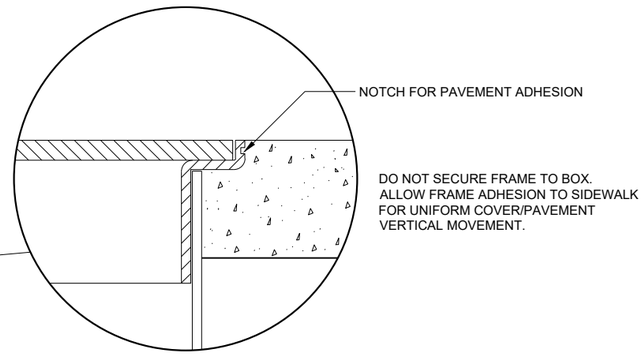
** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE.



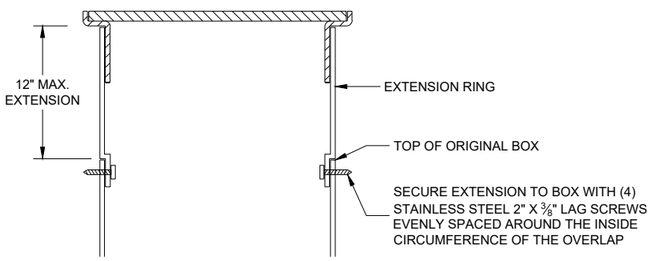
NON-CONDUCTIVE PULL BOX



INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



BOX EXTENSION

GENERAL NOTES

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

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN ½" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN ¼".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN ¼".

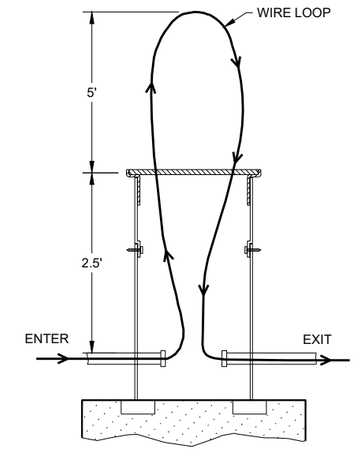
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE.

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

PULL BOXES NON-CONDUCTIVE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

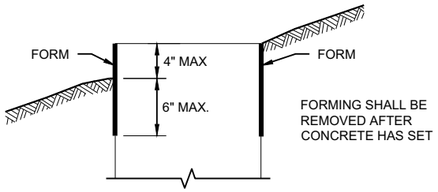
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

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SDD 09B16 - 02

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	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

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.

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 OR PLUGGED.

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 TIED TOGETHER.

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.

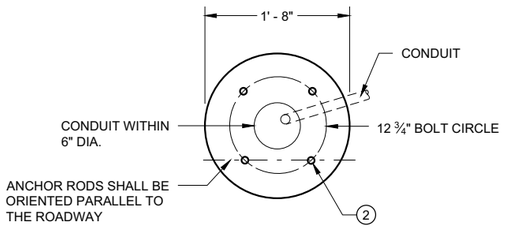
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

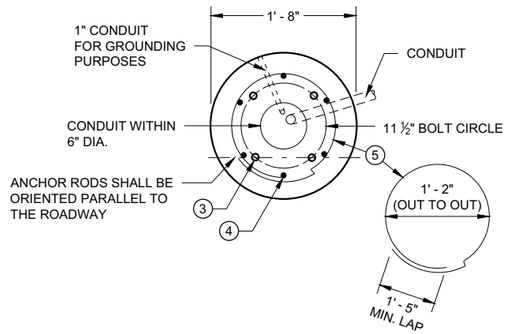
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

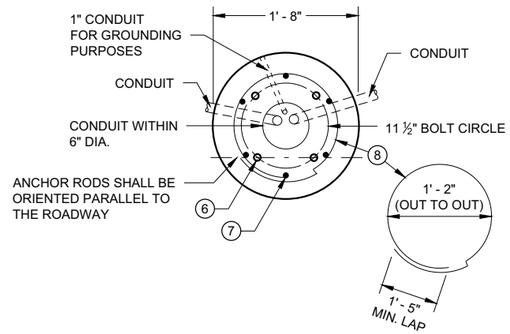
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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).







1 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.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

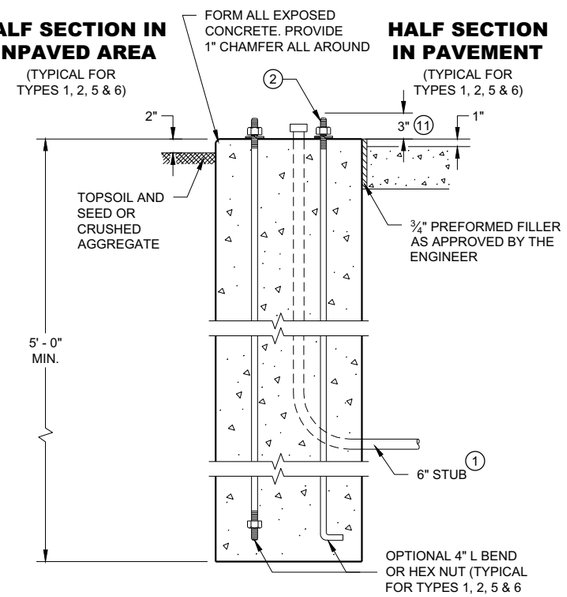
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

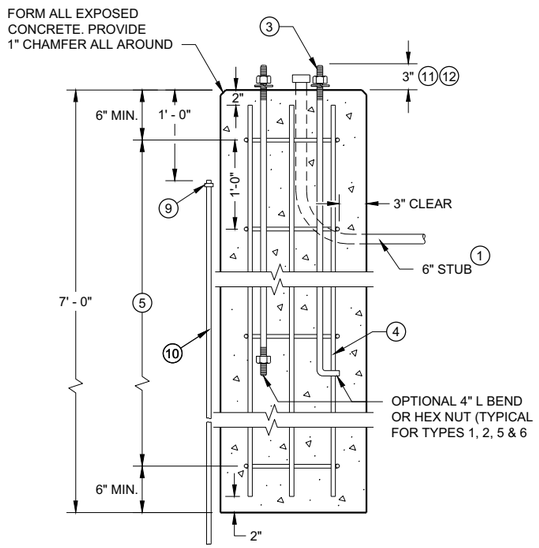
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

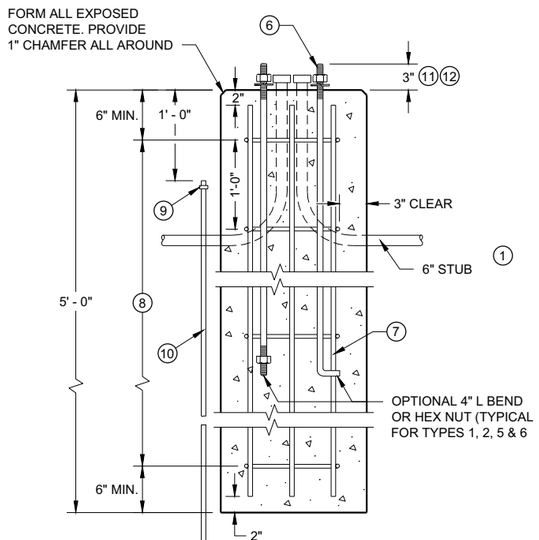
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

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SDD 09C02 - 09

GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

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

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A 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 SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

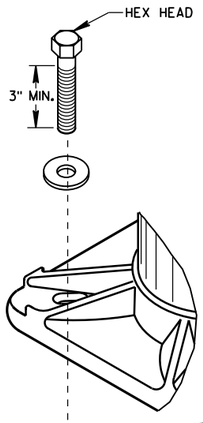
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

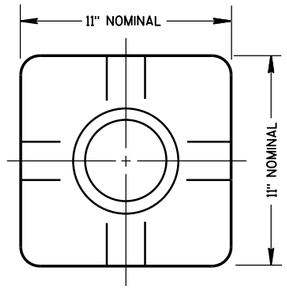
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

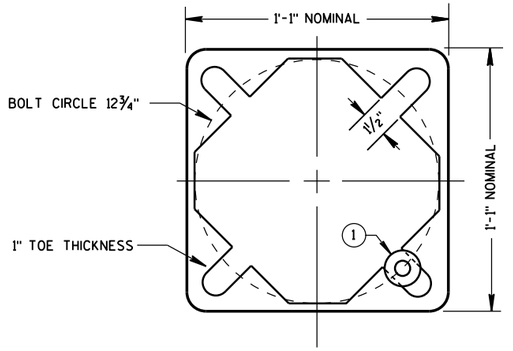
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

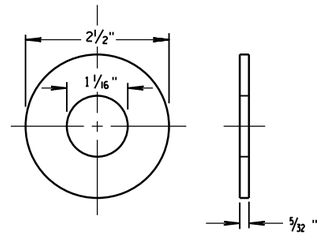




TOP VIEW
(PEDESTAL BASE)

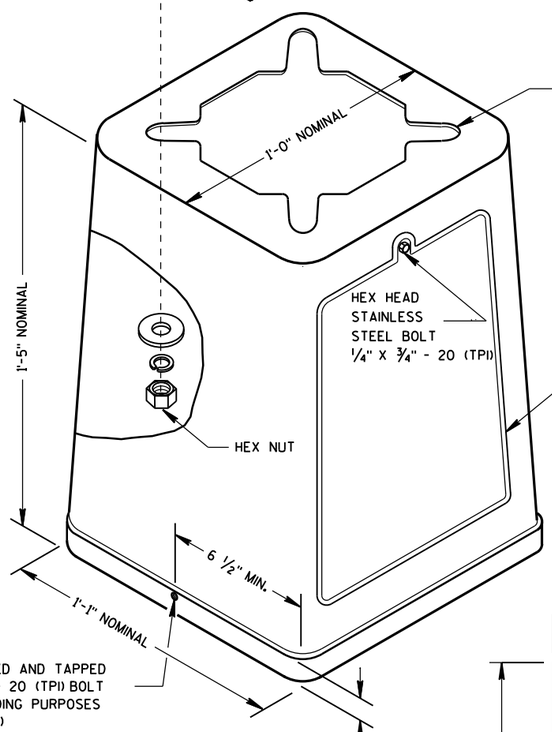


BOTTOM VIEW
(PEDESTAL BASE)

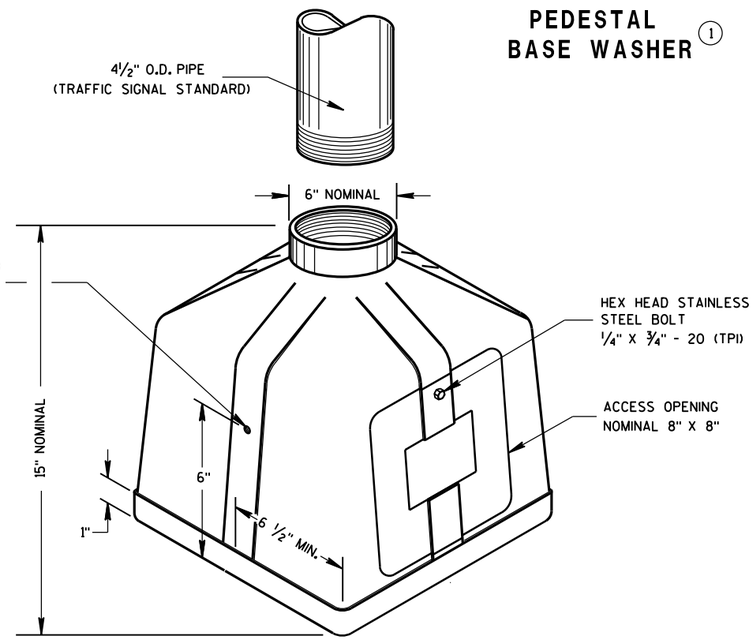


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

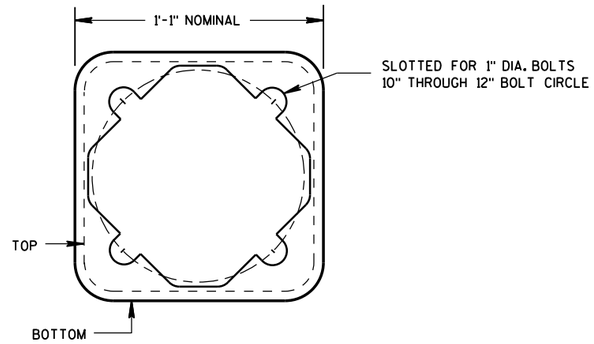


ISOMETRIC VIEW

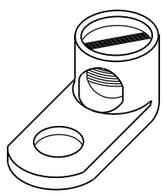


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

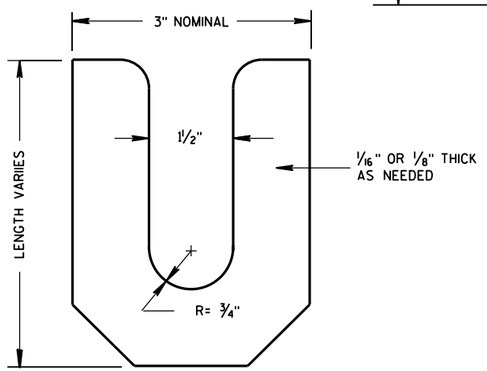


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

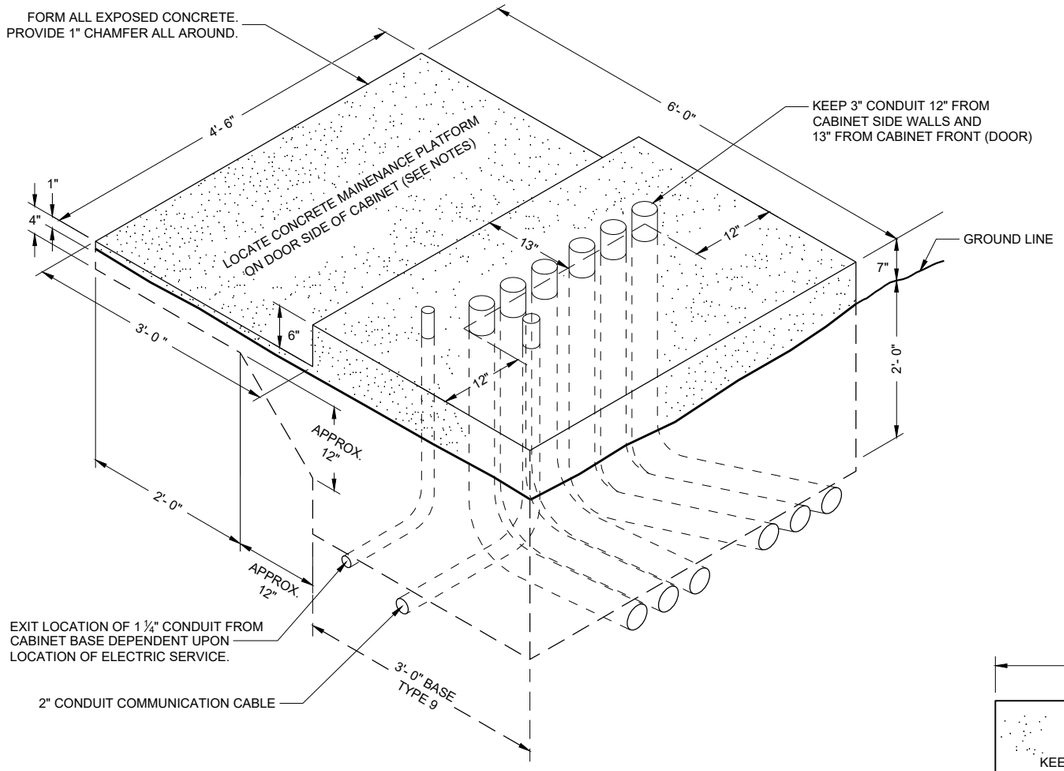
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S.D.D. 9 C 3-4

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S.D.D. 9 C 3-4

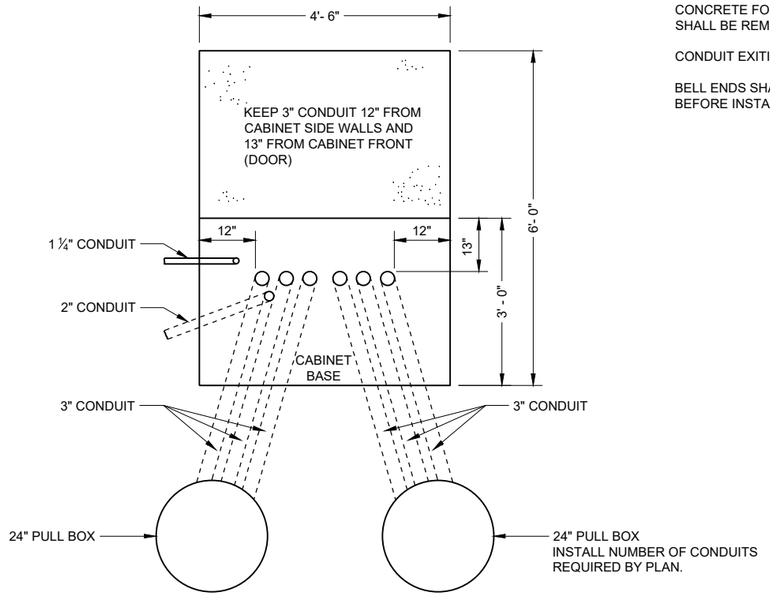
SDD 09C06 Concrete Control Cabinet Base, Type 9, Special



ISOMETRIC VIEW

TYPE 9 SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9 SPECIAL

GENERAL NOTES

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

INSTALL FOUR INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

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

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

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.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

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 BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE (SIX 3") SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

FHWA

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SDD 09C06 - 07

GENERAL NOTES

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

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

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

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

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

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

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

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

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 OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

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

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE 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 TIED TOGETHER.

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.

(1) 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 (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

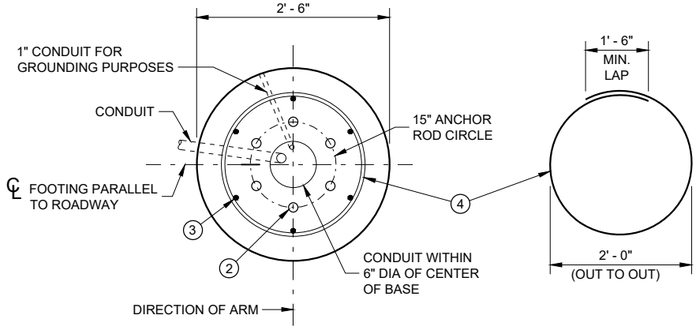
(2) (6) 1 ½ DIA. X 4' - 4" ANCHOR RODS

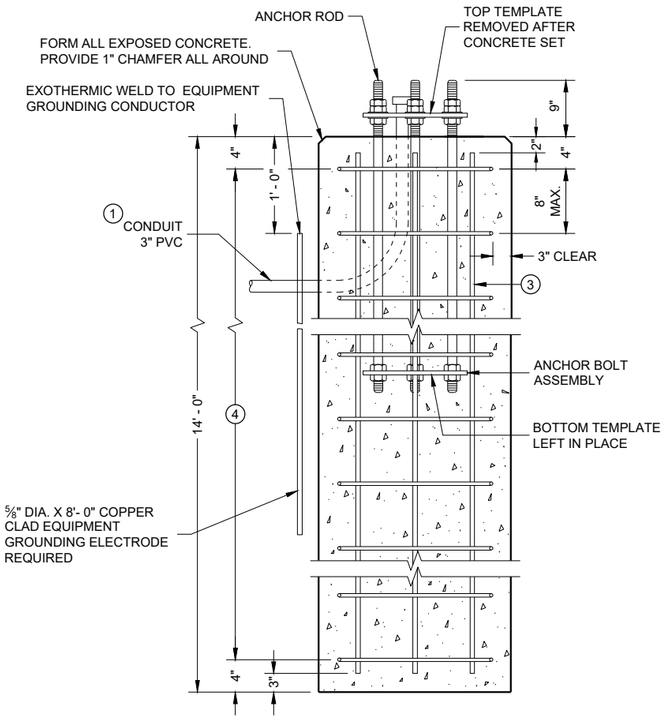
(3) (6) NO. 6 X 13' - 7" BAR STEEL REINFORCEMENT.

(4) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE .....fy = 55,000 p.s.i.
WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION)
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.

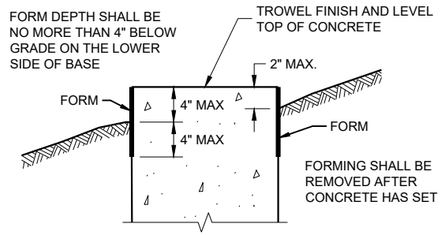
QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122



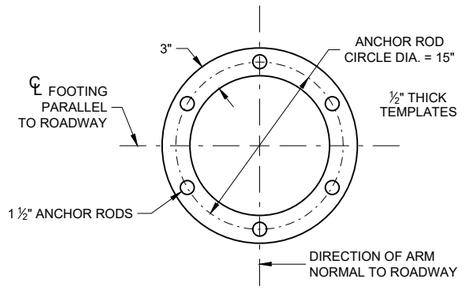


CONCRETE BASE, TYPE 10
(FOR TYPE 9, TYPE 10 AND OVER HEIGHT (OH) POLES)

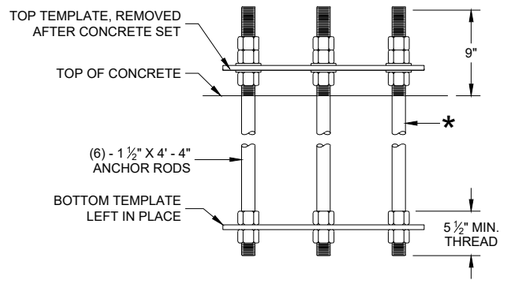
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE SDD 9C13 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demerbilek — WIND LOADED STRUCTU PROGRAM LEADER
FHWA

6

SDD 09C11 - 10

GENERAL NOTES

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

THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR RODS STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

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

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

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

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

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

FORM ALL EXPOSED CONCRETE CORNERS WITH 1" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

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

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 ½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

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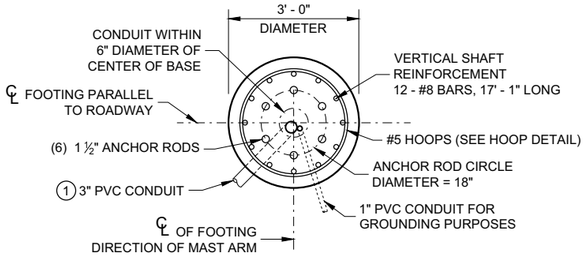
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THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY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

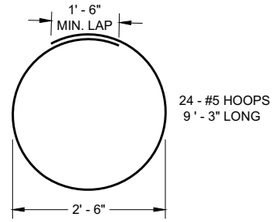
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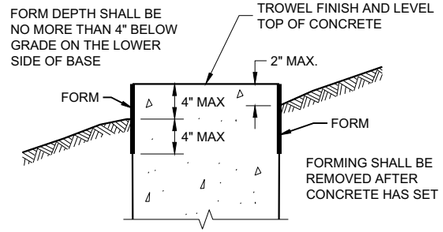
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
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TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



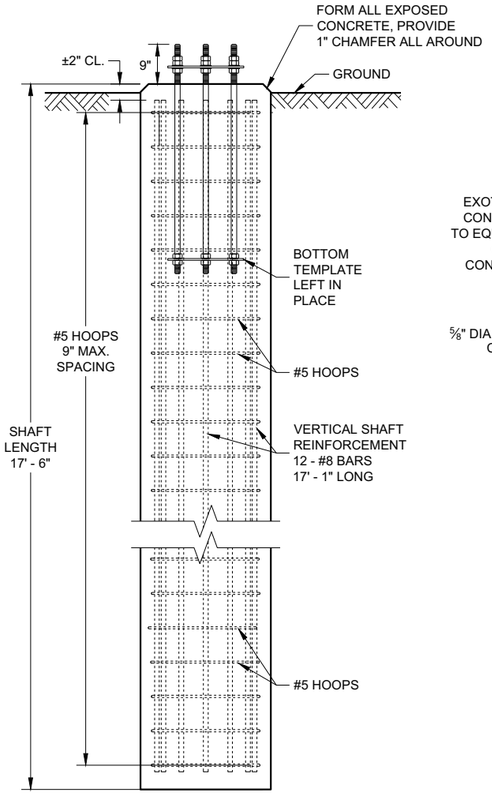
PLAN VIEW



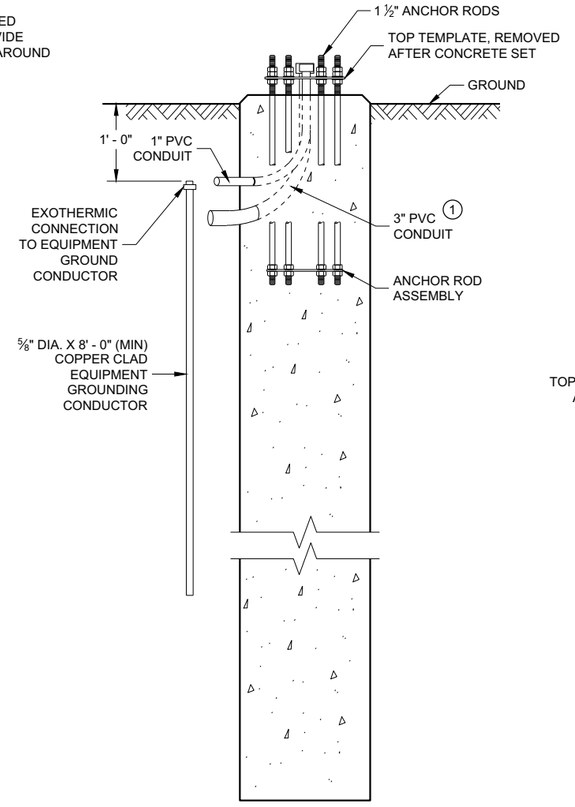
HOOP DETAIL



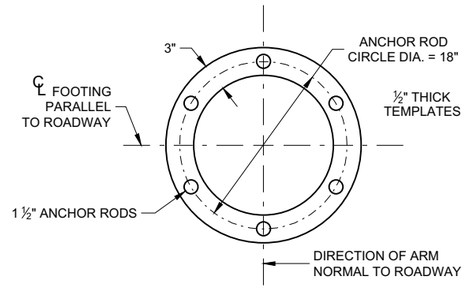
FORMING DETAIL



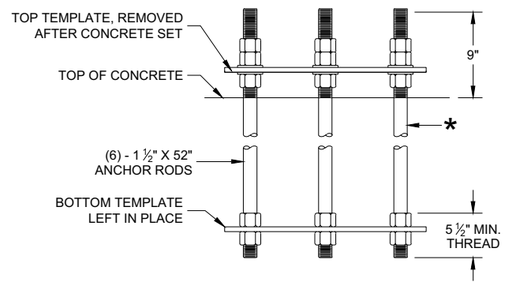
ELEVATION VIEW
(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)



SIDE VIEW
(HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY)



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE, TYPE 10 SPECIAL
(FOR TYPE 9 SPECIAL AND TYPE 10 SPECIAL POLES)

CONCRETE = 4.6 CUBIC YARD
H.S. REINFORCEMENT = 779 LBS.

FOR USE WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 10 SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

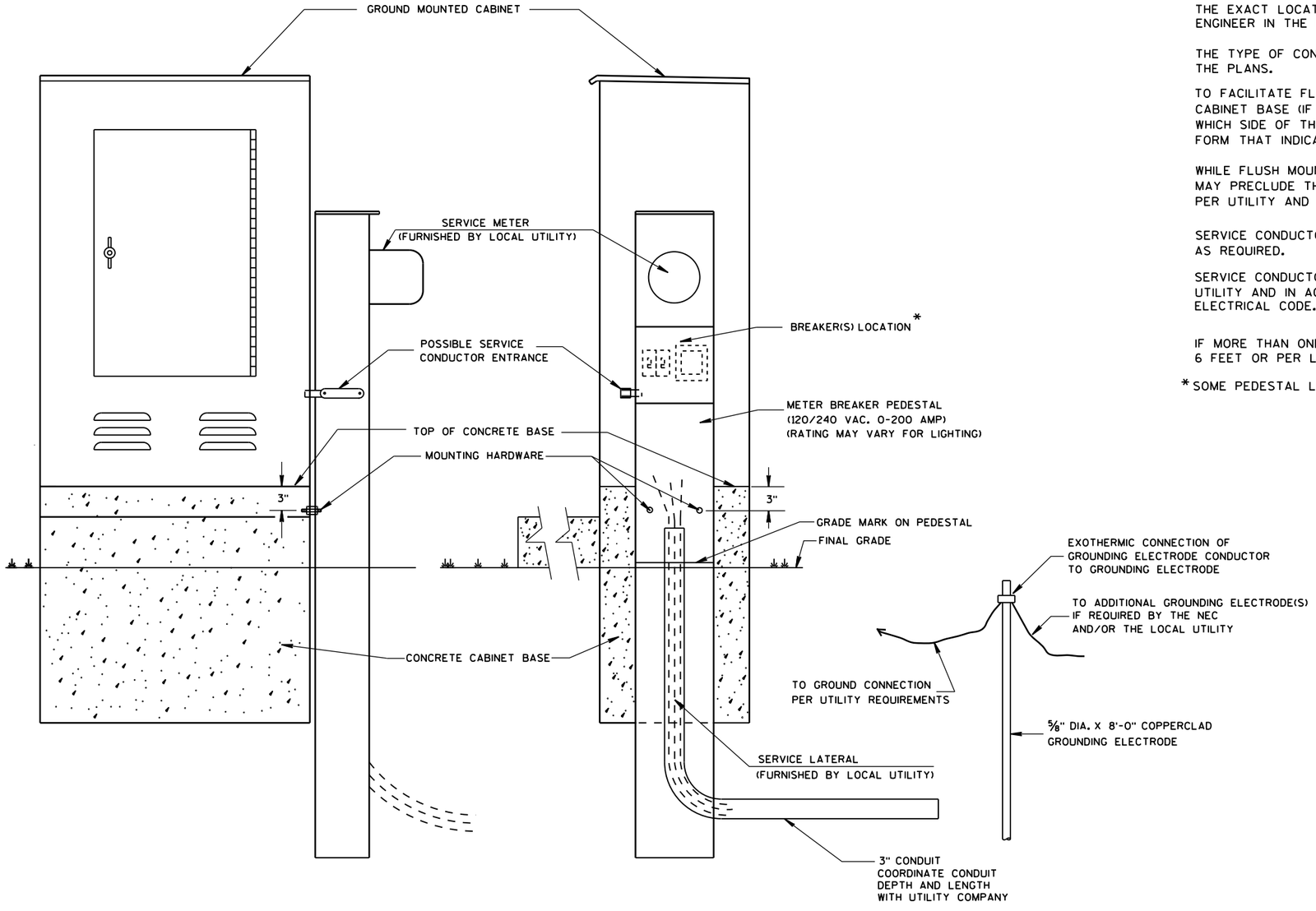
APPROVED
August 2020 — DATE
/S/ Alex Crabtree — WIND LOADED STRUCTU PROGRAM LEADER
FHWA

6

SDD 09C15 - 01

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SDD 09C15 - 01



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

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S.D.D. 9 D 1-5

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S.D.D. 9 D 1-5

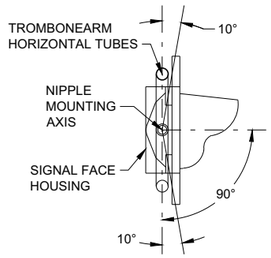
CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

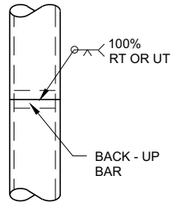


SECTION A-A

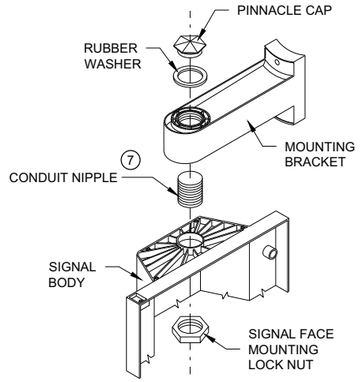
(10 DEGREES TILT REQUIREMENT OF FACE(S) IN THE TROMBONE MOUNTING)

FOR MANUFACTURERS USE ONLY

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN / BRIDGE FOR VERIFICATION AND APPROVAL.



POLE SPLICE DETAIL



SIGNAL FACE MOUNTING DETAIL

(BANDED)

GENERAL NOTES

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

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

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

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

TYPE 2 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

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

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

(3) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING,PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) ASREQUIRED, TO PLUMB THE SIGNAL FACES.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

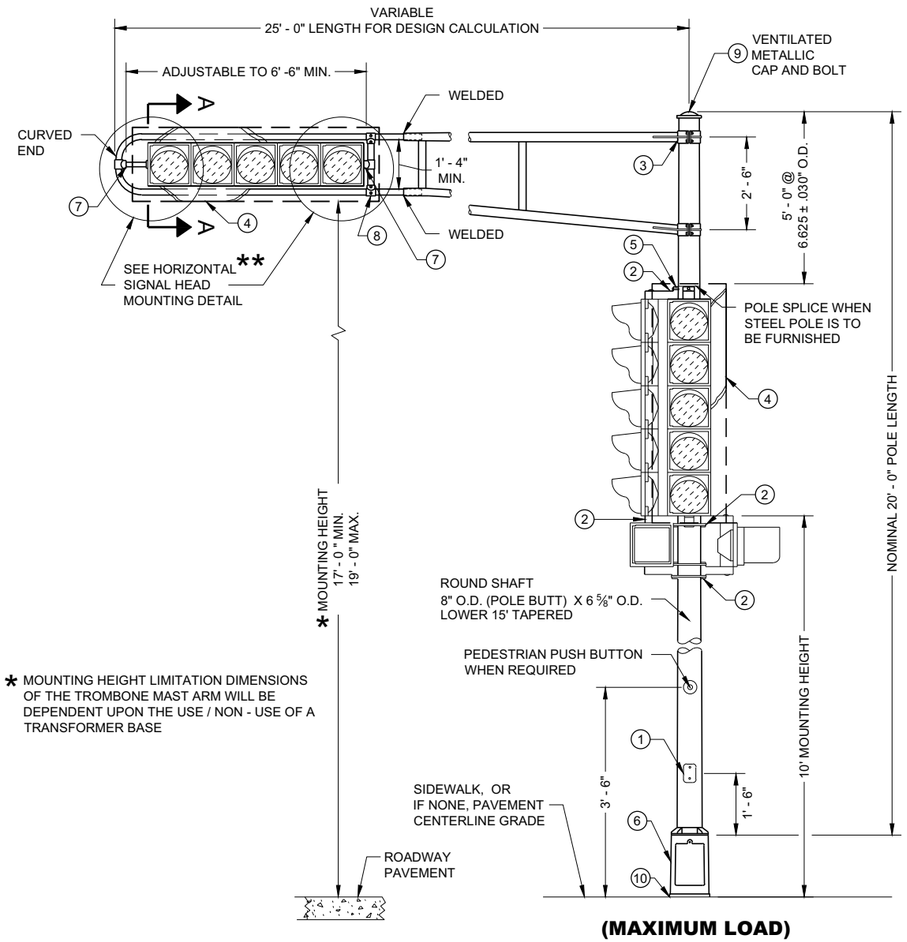
(7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOTINTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUTIS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

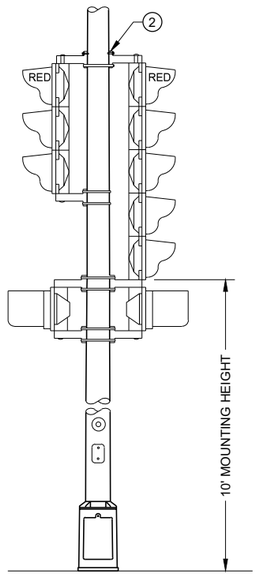
(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.

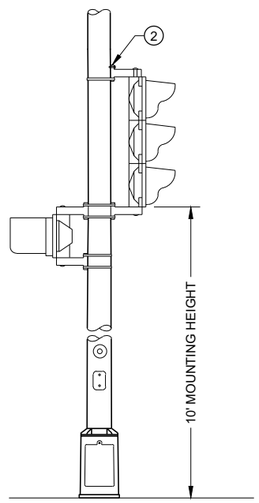


* MOUNTING HEIGHT LIMITATION DIMENSIONS OF THE TROMBONE MAST ARM WILL BE DEPENDENT UPON THE USE / NON - USE OF A TRANSFORMER BASE

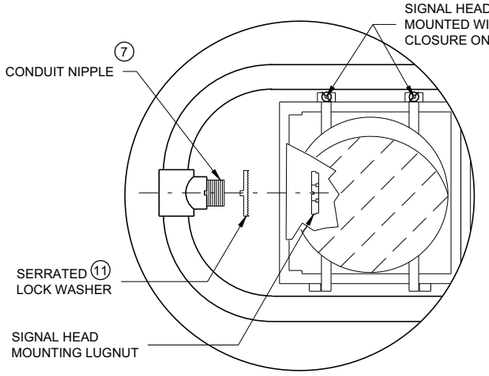
(MAXIMUM LOAD)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



HORIZONTAL SIGNAL HEAD MOUNTING DETAIL **

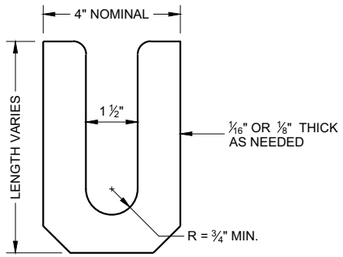
** SIGNAL HEAD ATTACHMENT ALSO APPLIES TO MOUNTING AT CROSS BAR

TYPE 2 POLE MOUNTING CONFIGURATION

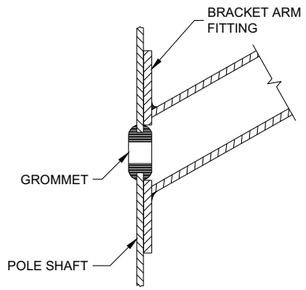
POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

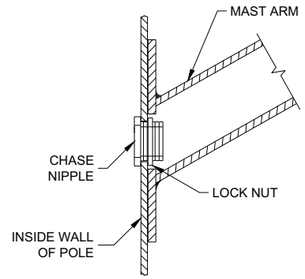
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SDD 09E01 - 15a



LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



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.

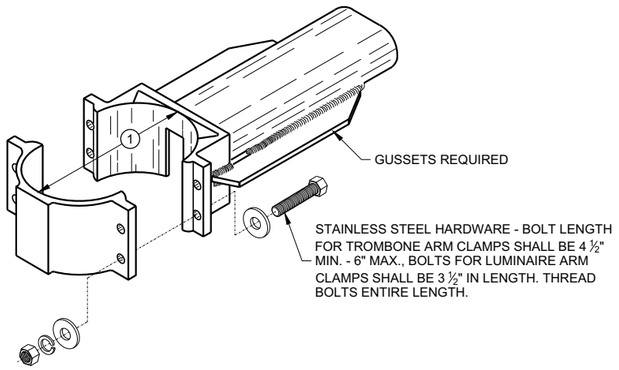
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

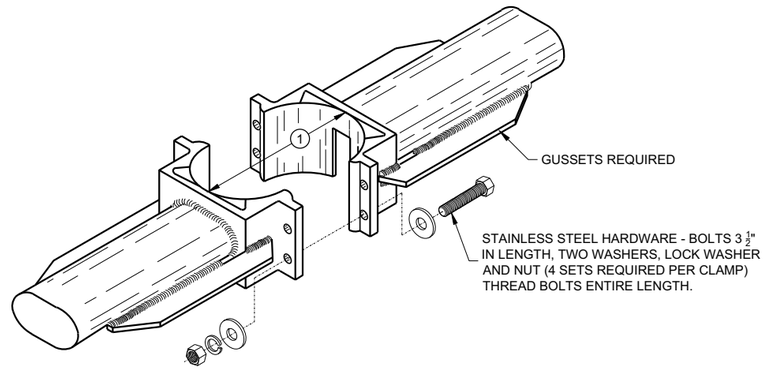
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(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 BASE PLATE.

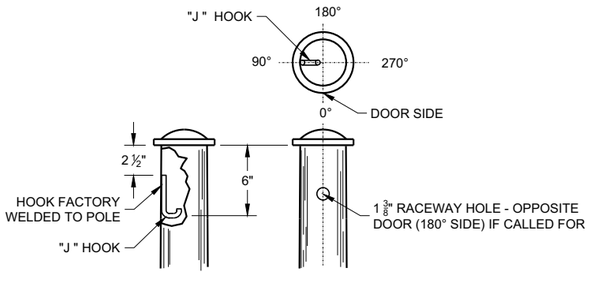
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



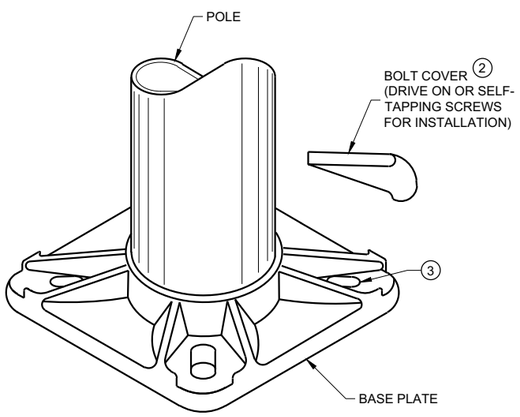
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



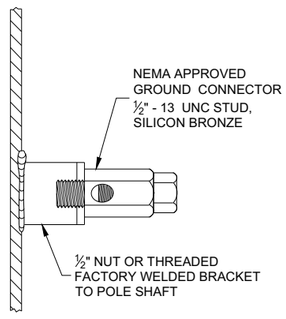
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

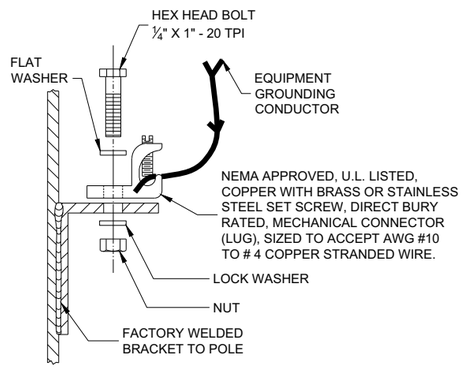


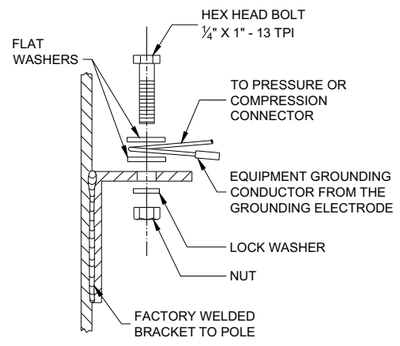
TYPICAL "J" HOOK LOCATION



BASE PLATE







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 Demirbilek
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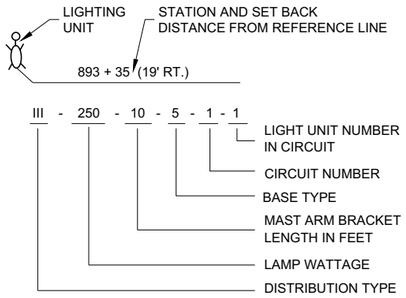
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SDD 09E01 - 15g

GENERAL NOTES

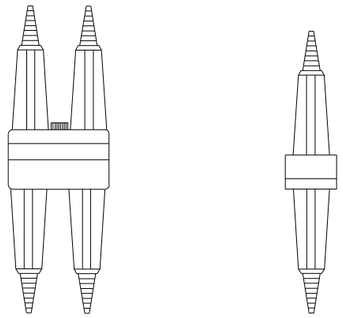
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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.

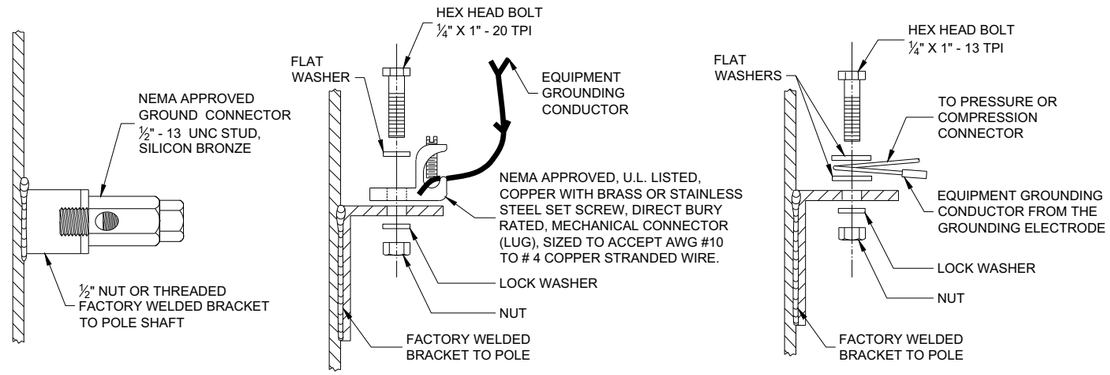


LIGHTING UNIT CODE
(TYPICAL)

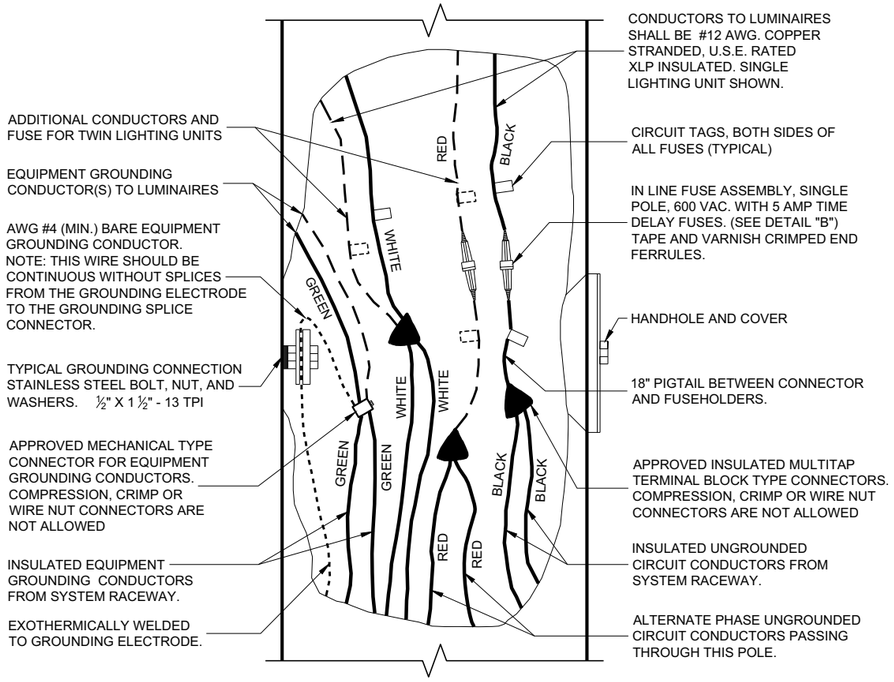


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

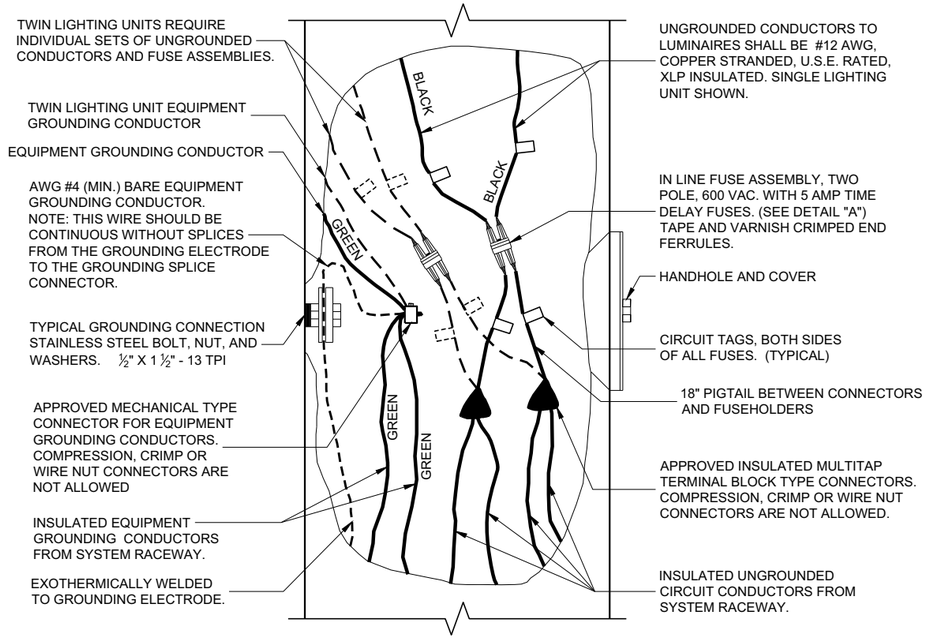
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



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

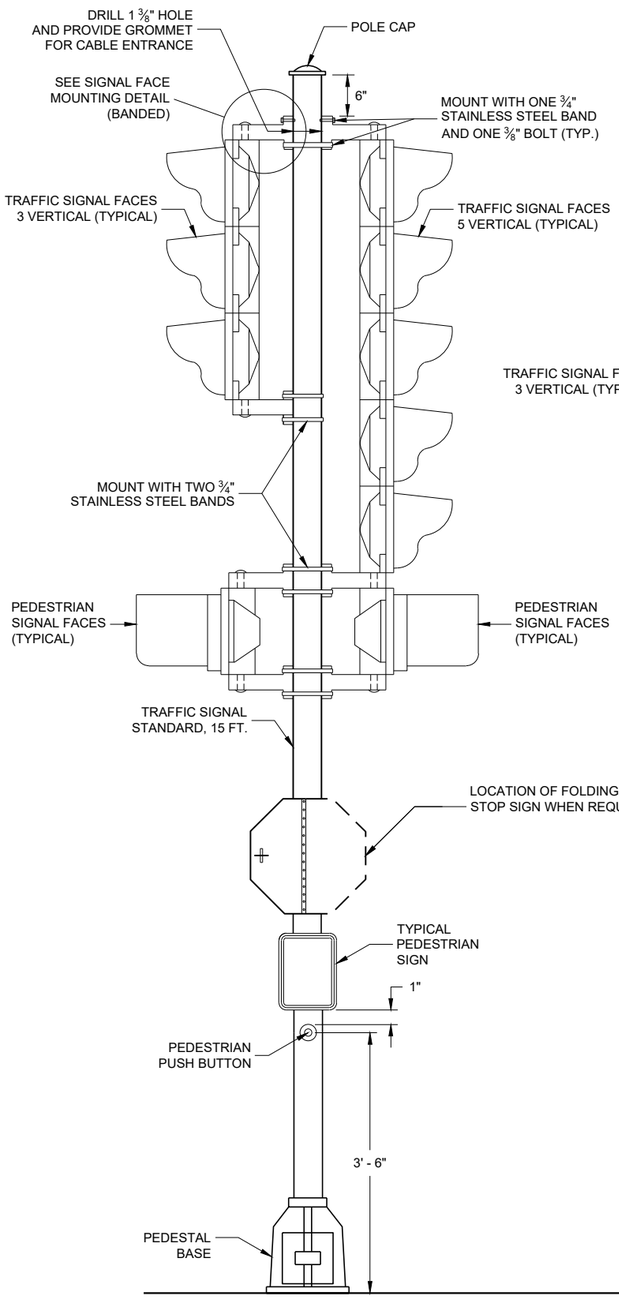
NON - FREEWAY LIGHTING UNIT POLE WIRING

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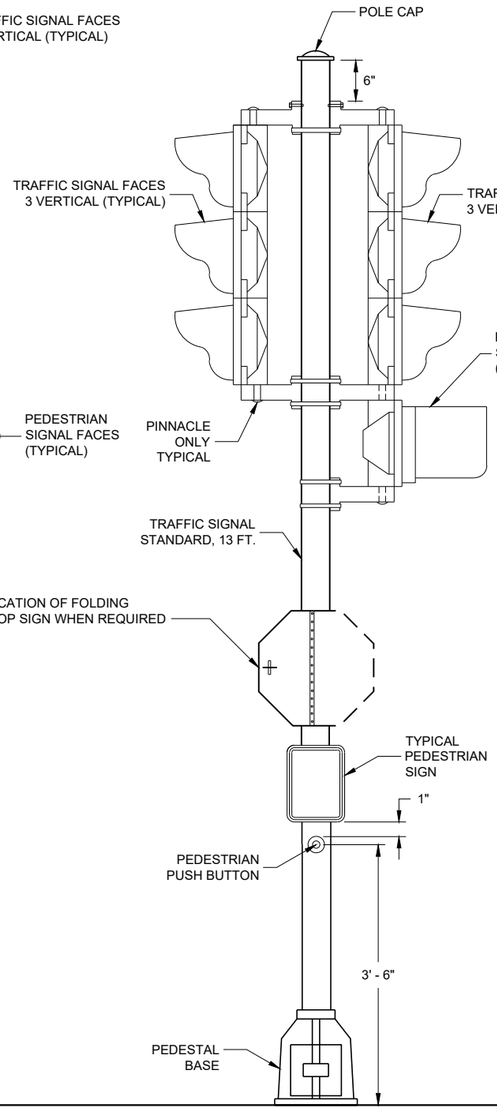
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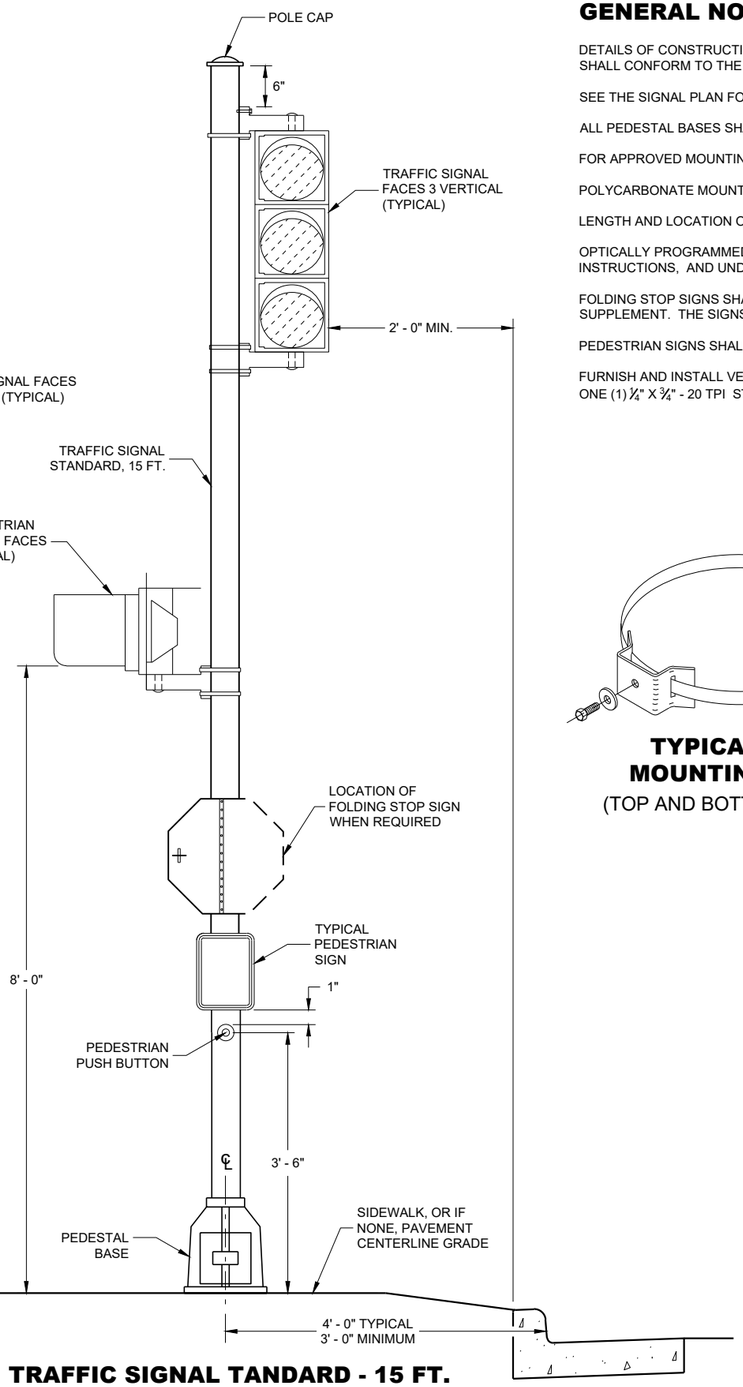
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TRAFFIC SIGNAL STANDARD - 15 FT.



TRAFFIC SIGNAL STANDARD - 13 FT.



TRAFFIC SIGNAL TANDARD - 15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

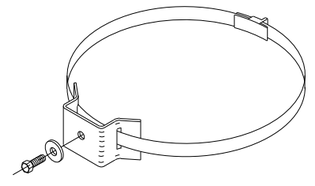
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

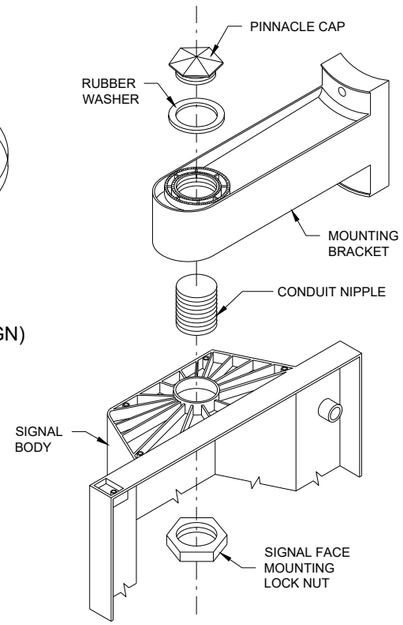
FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X 3/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



SIGNAL FACE MOUNTING DETAIL (BANDED)

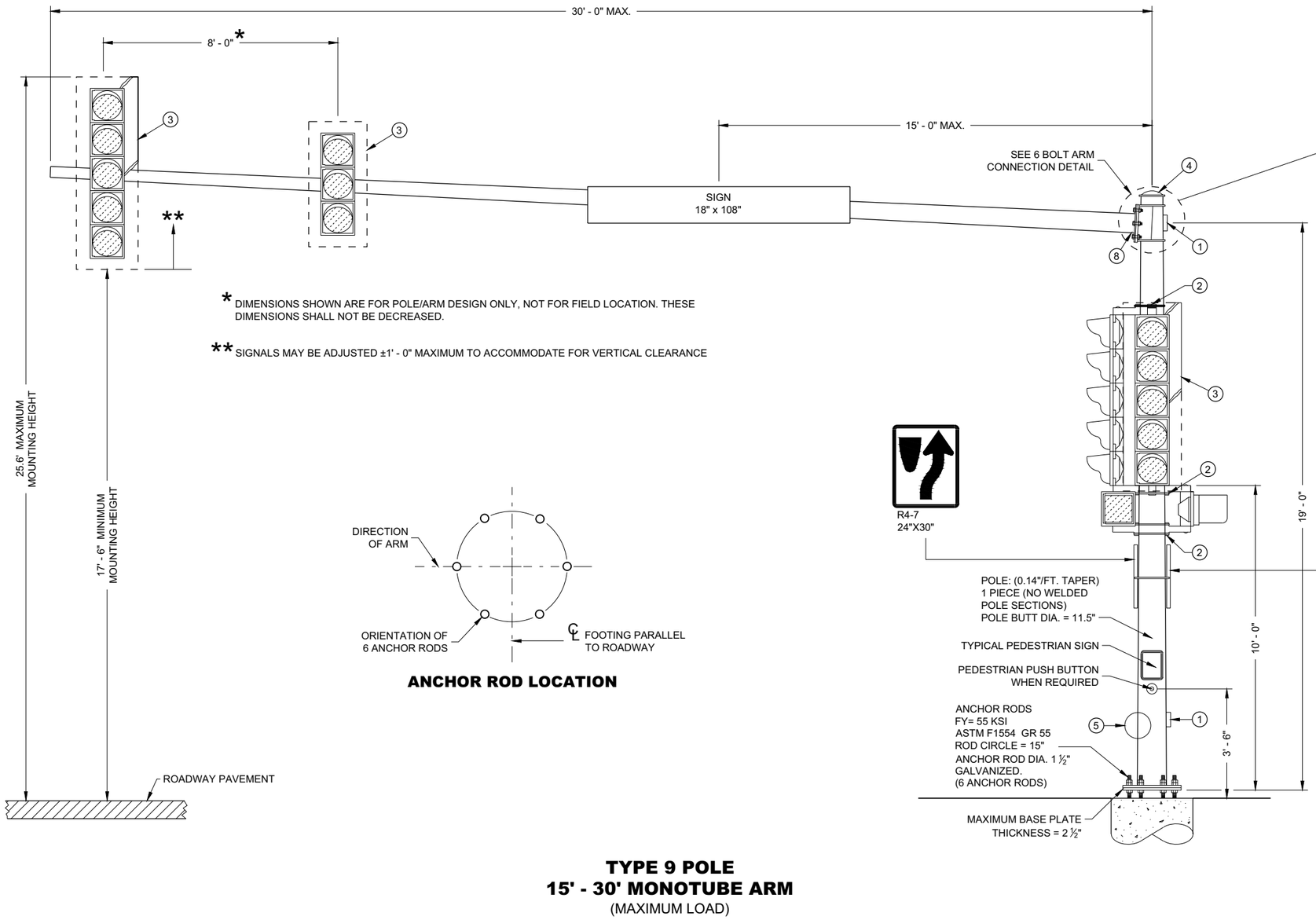
TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

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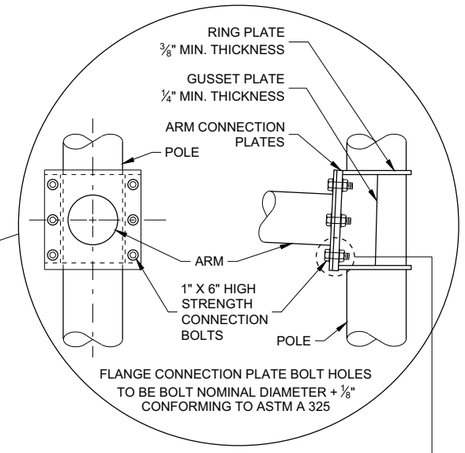
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SDD 09E06 - 05



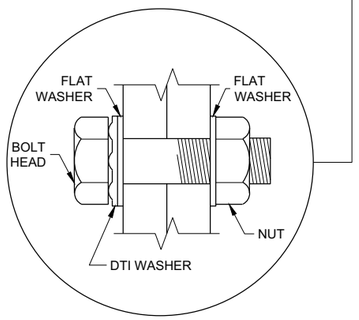
* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

ANCHOR ROD LOCATION



6 BOLT ARM CONNECTION DETAIL



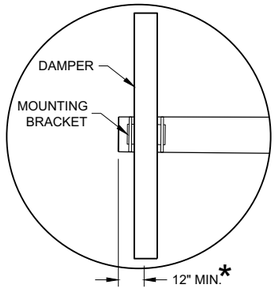
RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 POLE
15' - 30' MONOTUBE ARM
(MAXIMUM LOAD)

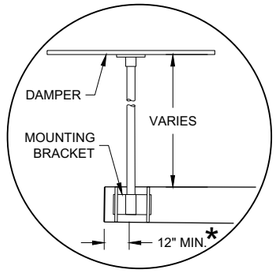
TYPE 9 POLE **15' - 30' MONOTUBE ARM**	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED August 2020 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL ENGI
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SDD 09E08 - 09a

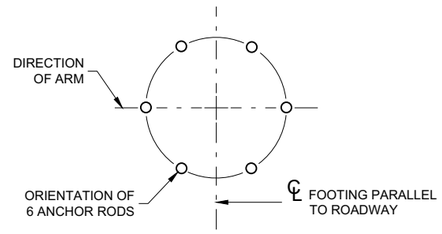


DUMBBELL VIBRATION DAMPER

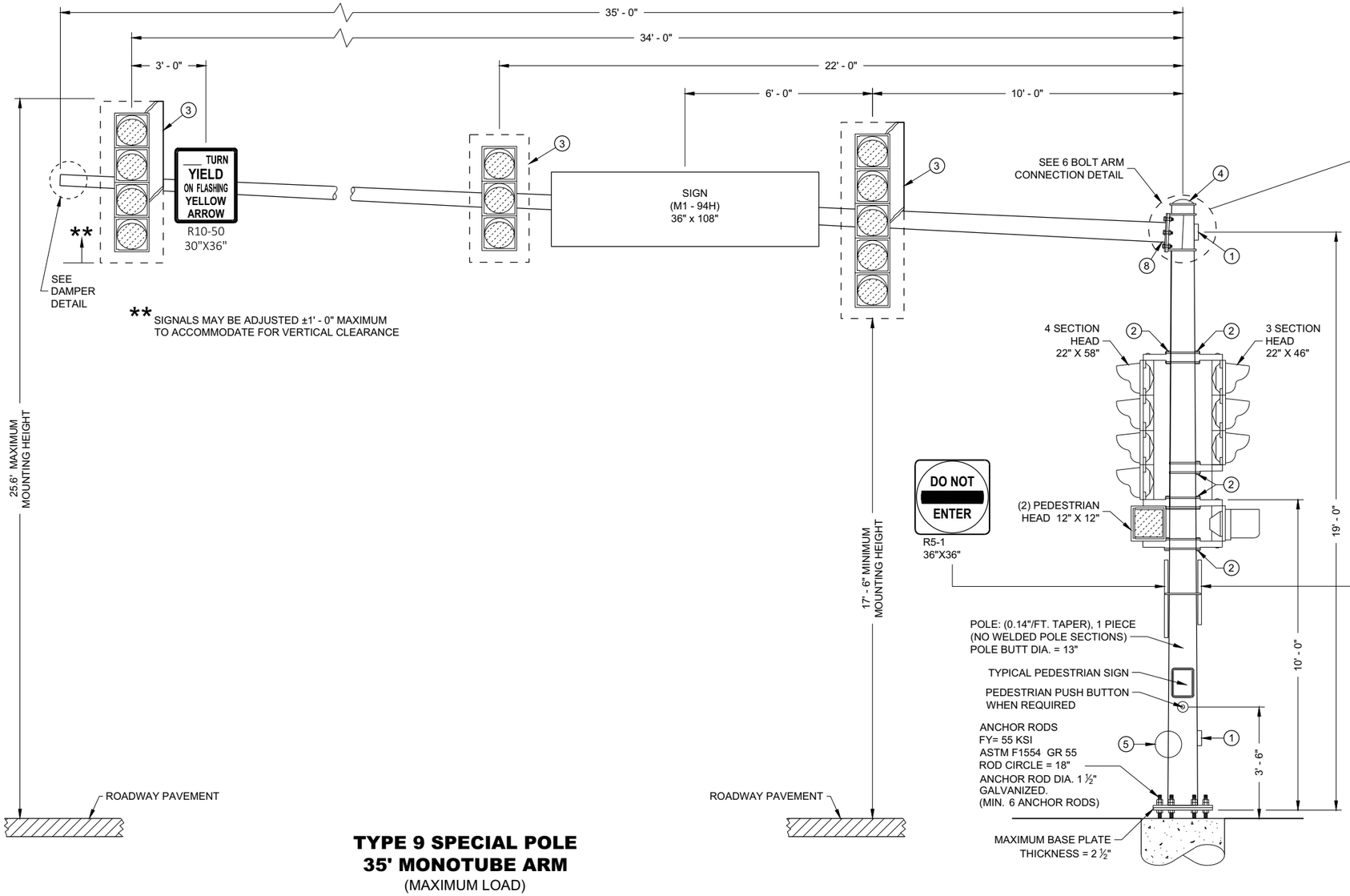


FLAT VIBRATION DAMPER

* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.

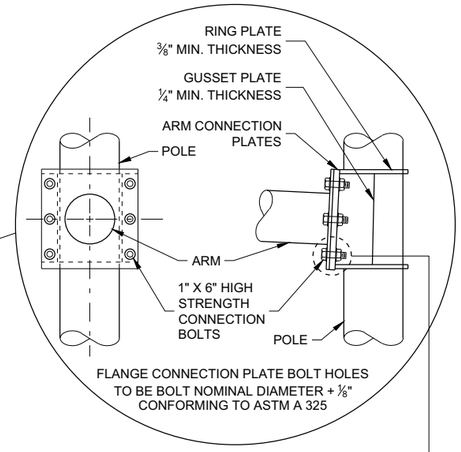


ANCHOR ROD LOCATION

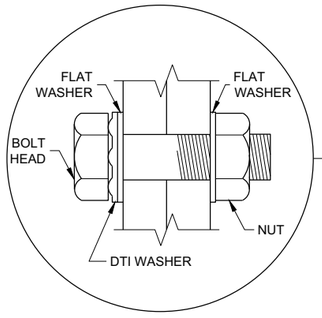


** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

TYPE 9 SPECIAL POLE
35' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE
35' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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August 2020
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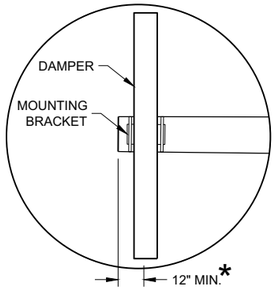
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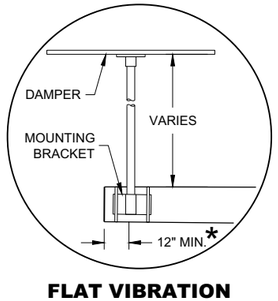
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SDD 09E08 - 09b

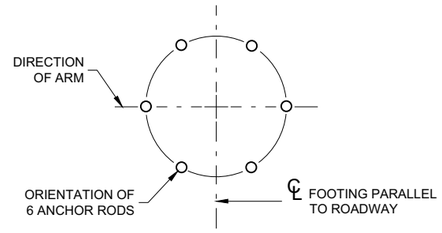


DUMBBELL VIBRATION DAMPER

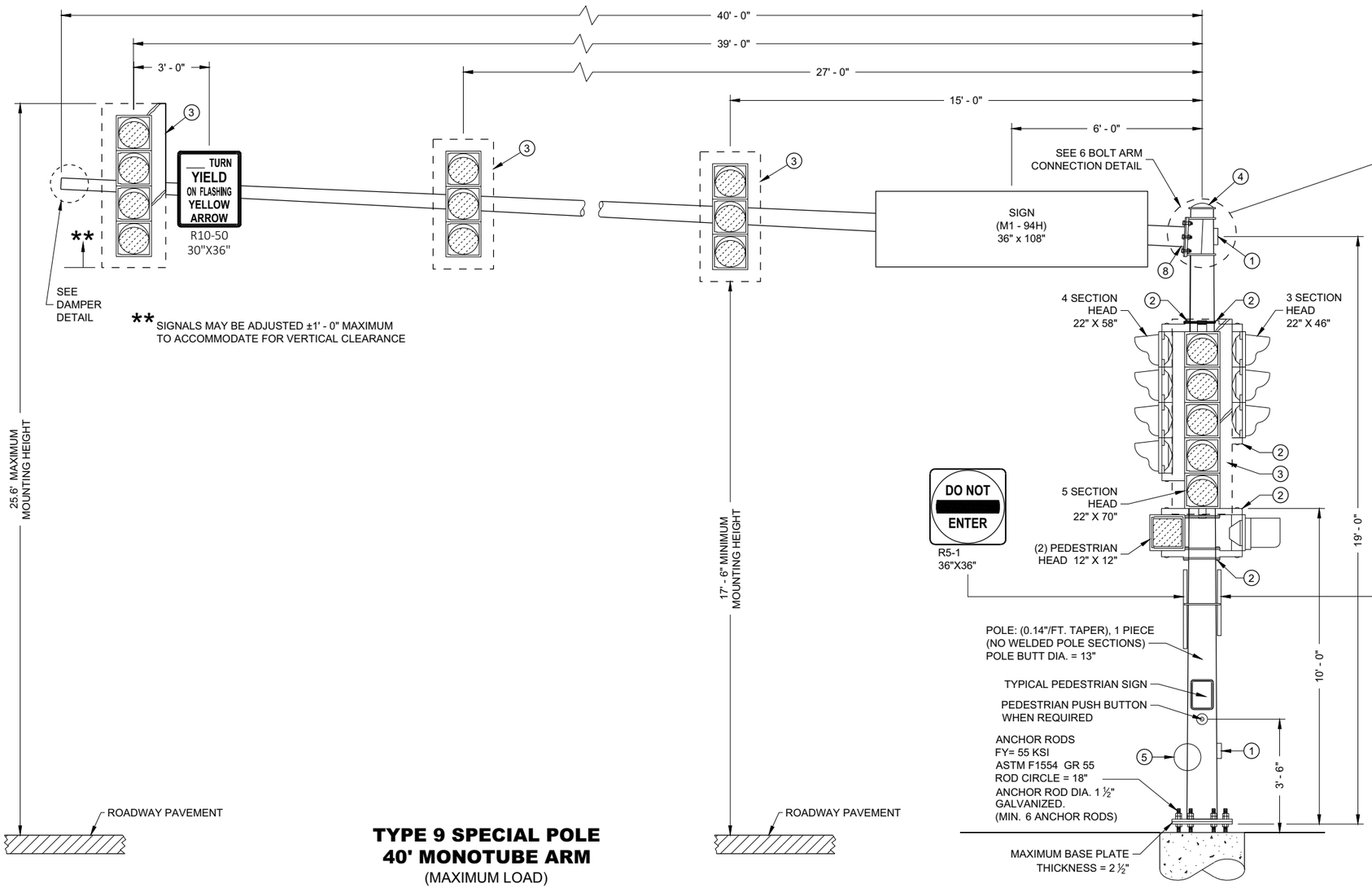


FLAT VIBRATION DAMPER

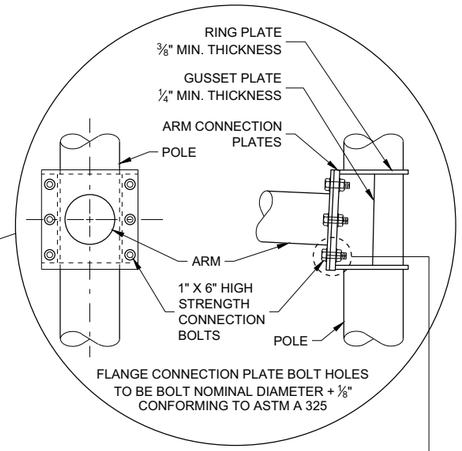
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.



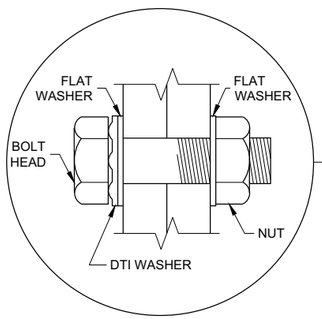
ANCHOR ROD LOCATION



TYPE 9 SPECIAL POLE 40' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE 40' MONOTUBE ARM

STATE OF WISCONSIN
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GENERAL NOTES

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

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15 FOOT TO 30 FOOT.

POLE TYPES 9 SPECIAL AND 10 SPECIAL ARE FOR ARM LENGTHS 35 FOOT, 40 FOOT, AND 45 FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35 FOOT TO 55 FOOT.

MONOTUBE POLES AND ARMS SHALL BE GALVANIZED STEEL.

RING STIFFENED BUILT UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3% ± RISE).

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

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING INTERIM REVISIONS)" AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR THE LIGHTING STRUCTURES AS FOLLOWS:

CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.

CATEGORY II FATIGUE LOADS OF TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 SPECIAL AND TYPE 10 SPECIAL STRUCTURES. IN LIEU OF DESIGNING FOR GALLOPING, A VIBRATION DAMPER MITIGATION DEVICE IS REQUIRED TO BE SUPPLIED AND INSTALLED AT THE END OF THE MAST ARM.

CATEGORY II FATIGUE FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE12 AND TYPE 13 STRUCTURES.

115 MPH (700 YEAR MRI BASIC WIND SPEED).

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" STAINLESS STEEL BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR A S DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEAD AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HAND HOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING (SEE SPECIFICATION SECTION 658).

(3) SECURELY MOUNT BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HAND HOLD, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

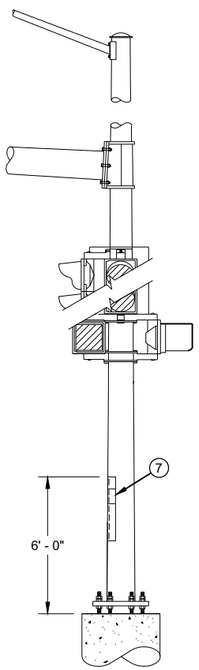
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

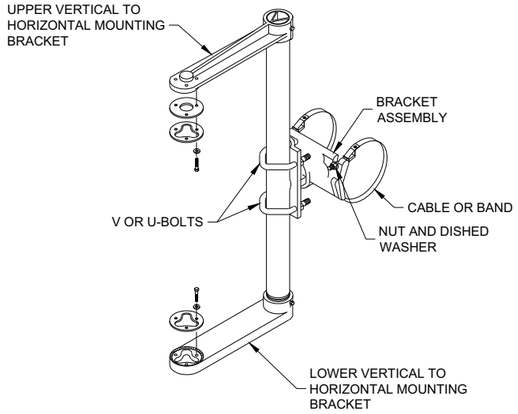
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

MOUNTING HEIGHT SHALL BE 6' - 0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

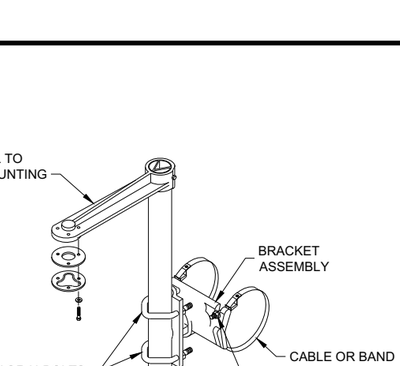


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



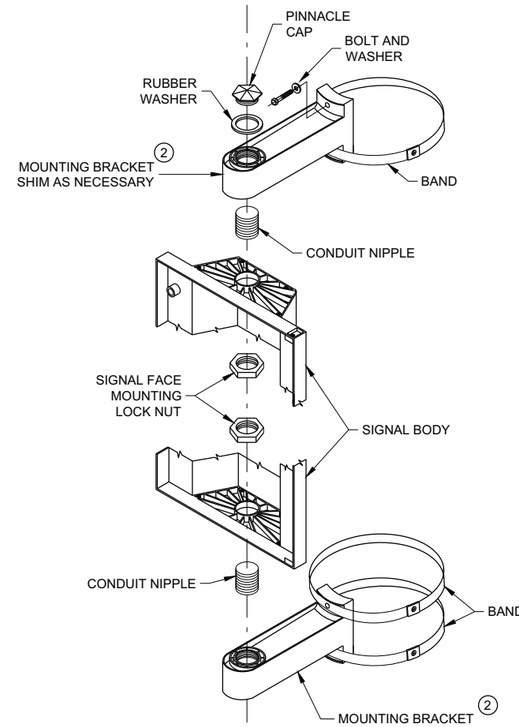
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANFACTURER'S RECOMMENDATION)

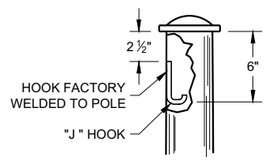


TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



TYPICAL "J" HOOK WIRE SUPPORT (6)

GENERAL NOTES AND HARDWARE FOR TYPES 9,10, 9/10 SPECIAL, 12 AND 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

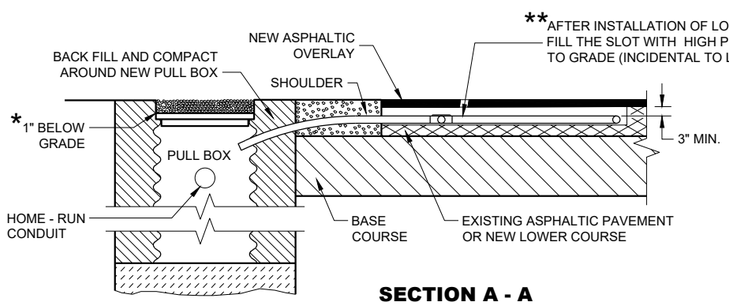
APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA

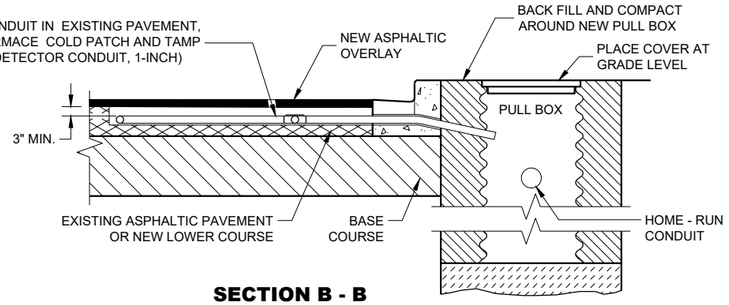
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SDD 09E08 - 09k



SECTION A - A
NO CURB AND GUTTER

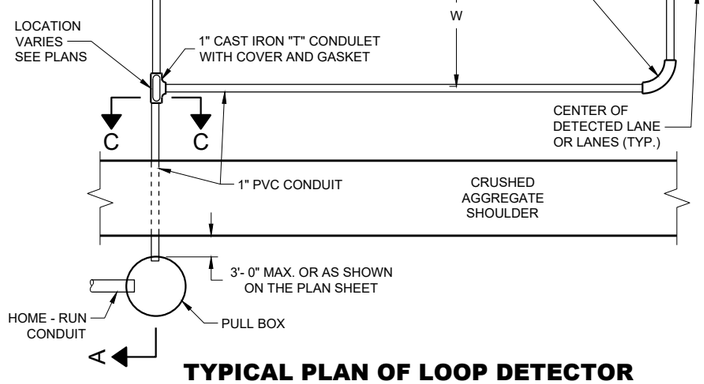
LOOP DETECTOR INSTALLATION DETAIL



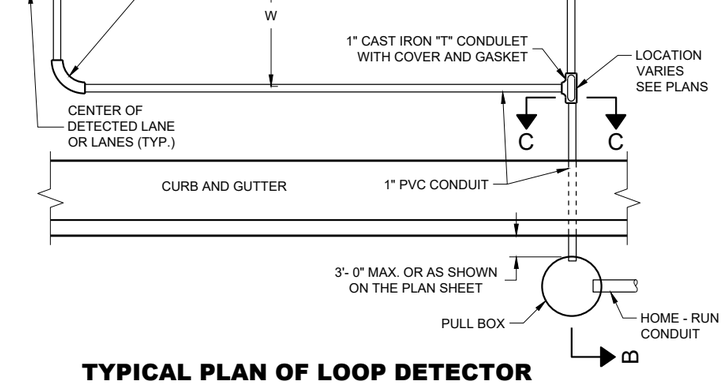
SECTION B - B
CURB AND GUTTER

LOOP DETECTOR INSTALLATION DETAIL

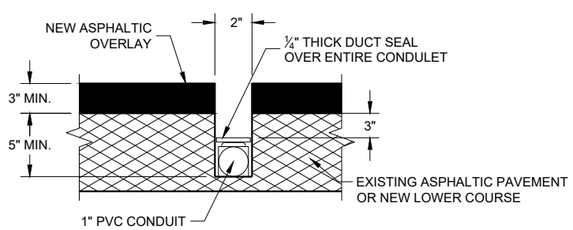
* RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.



TYPICAL PLAN OF LOOP DETECTOR



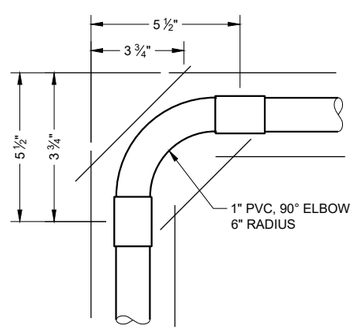
TYPICAL PLAN OF LOOP DETECTOR



SIDE VIEW
SECTION C - C

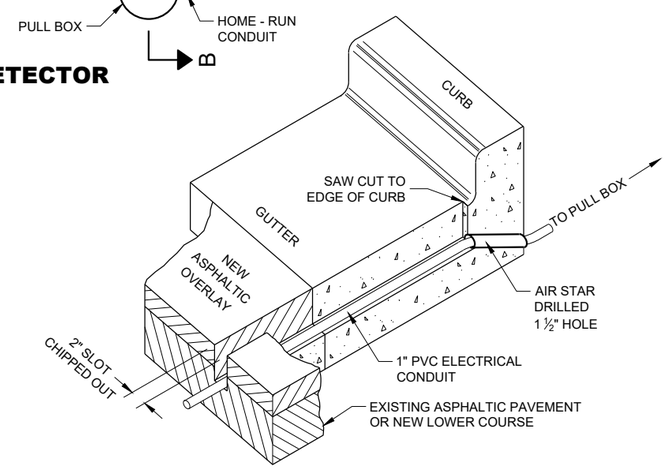
IF PAVEMENT IS LESS THAN 4 INCHES THICK, CONDUIT SHALL BE PLACED IN BASE COURSE.

LOOP DETECTOR SLOT DETAIL



TOP VIEW

CORNER SAW SLOT DETAIL



ISOMETRIC VIEW

TYPICAL SAW CUT DETAIL FOR LEAD-IN CONDUIT

GENERAL NOTES

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

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE NON-SPLICED, CONTINUOUS LENGTH.

BEFORE PLACING THE 1 INCH CONDUIT IN THE CLEANED OUT SLOT, PLACE SOME OF THE TAR OR EPOXY SEALANT IN THE SLOT TO A DEPTH OF APPROXIMATELY ½ INCH. IF THE CONDUIT MUST BE PLACED IN THE BASE COURSE, DO NOT PLACE THE TAR OR EPOXY SEALANT IN THE SLOT.

ONCE THE 2" LOOP SLOT HAS BEEN CHIPPED OUT, THE LOOP INSTALLATION SHALL BE COMPLETED PRIOR TO OPENING THE LANE(S) TO TRAFFIC.

** AFTER THE HIGH PERFORMANCE COLD PATCH HAS BEEN TAMPED, SEAL THE SLOT/HIGH PERFORMANCE COLD PATCH/PAVEMENT OPENING WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".

IN THE EVENT HIGH PERFORMANCE COLD PATCH IS NOT AVAILABLE, AND FLEXIBLE TYPE EPOXY IS USED AS A LOOP SLOT FILLER, THE 2 INCH SLOT SHALL BE TOTALLY CLEAN AND DRY BEFORE ITS INSTALLATION. EPOXY USE SHALL BE APPROVED BY THE DISTRICT TRAFFIC ENGINEER AND THE FURNISHED EPOXY SHALL BE INSTALLED AFTER WRITTEN APPROVAL BY THE PROJECT ENGINEER.

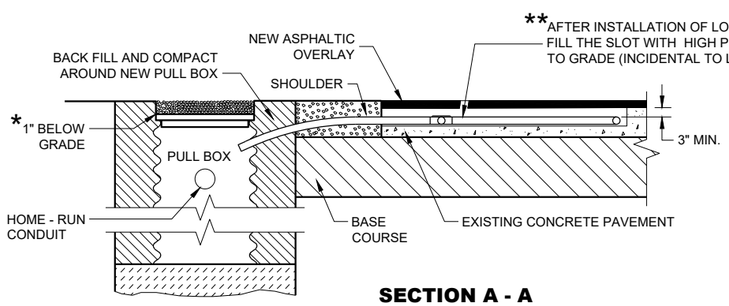
LOOP DETECTOR INSTALLED IN EXISTING OR NEW ASPHALTIC PAVEMENT WITH NEW ASPHALTIC OVERLAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

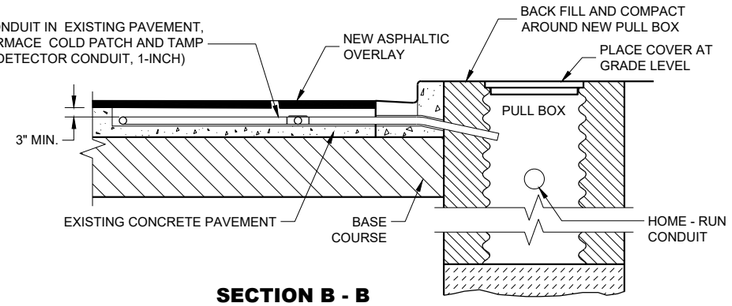
FHWA

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SDD 09F10 - 04



SECTION A - A
NO CURB AND GUTTER

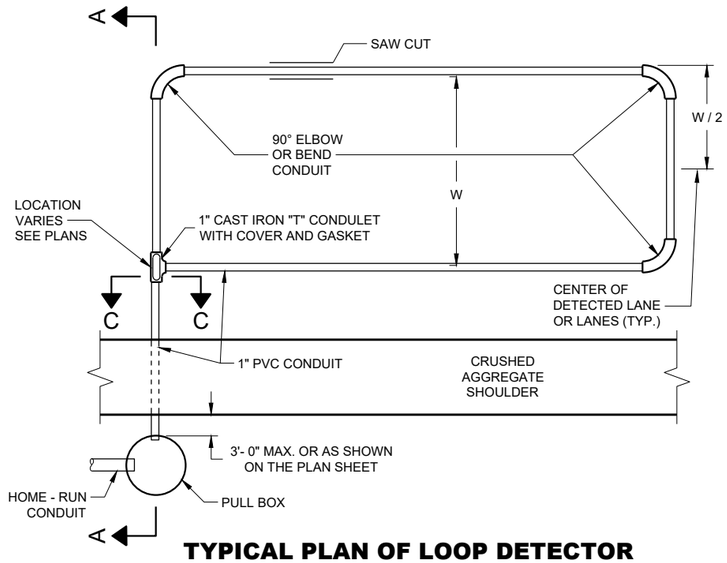
LOOP DETECTOR INSTALLATION DETAIL



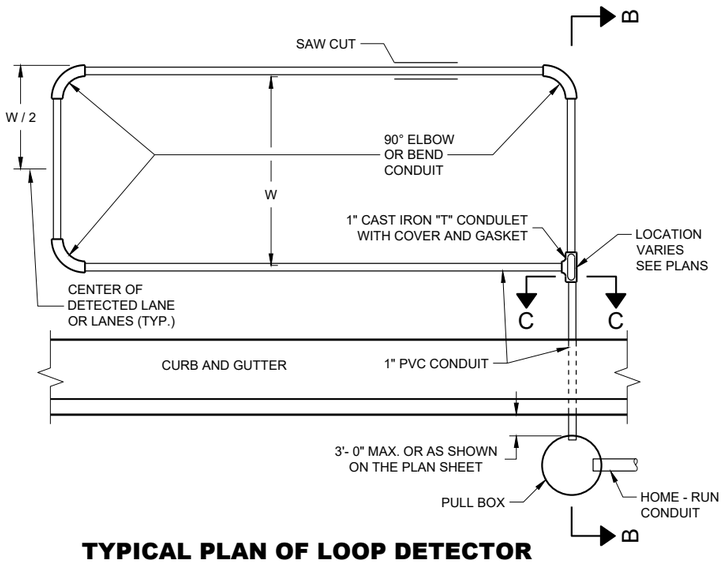
SECTION B - B
CURB AND GUTTER

LOOP DETECTOR INSTALLATION DETAIL

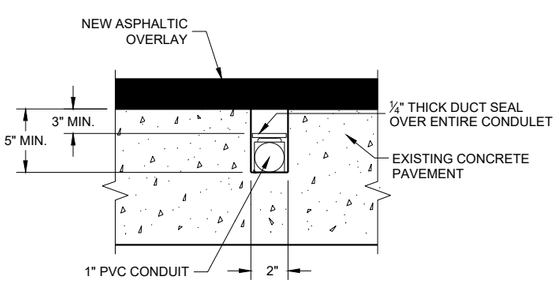
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TYPICAL PLAN OF LOOP DETECTOR

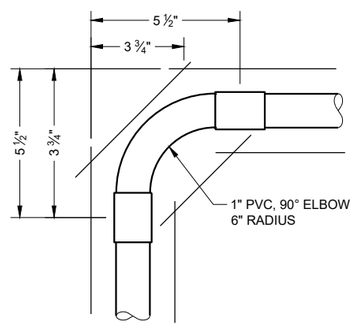


TYPICAL PLAN OF LOOP DETECTOR



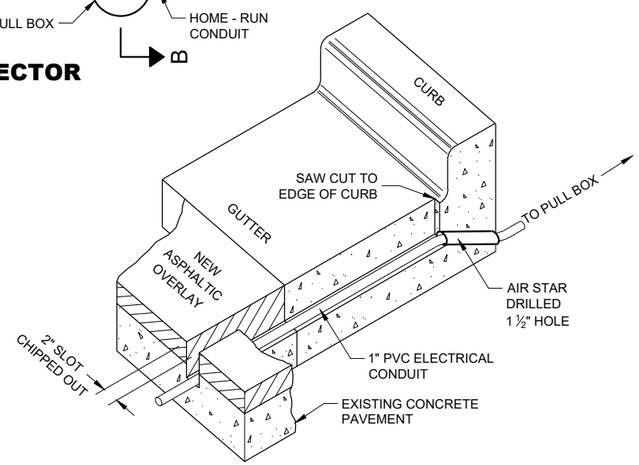
SIDE VIEW
SECTION C - C

LOOP DETECTOR SLOT DETAIL



TOP VIEW

CORNER SAW SLOT DETAIL



ISOMETRIC VIEW

TYPICAL SAW CUT DETAIL FOR LEAD-IN CONDUIT

GENERAL NOTES

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LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

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LOOP DETECTOR INSTALLED IN EXISTING CONCRETE PAVEMENT WITH NEW ASPHALTIC OVERLAY

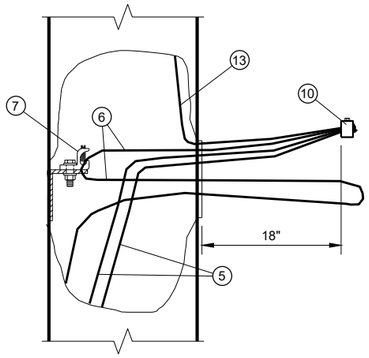
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

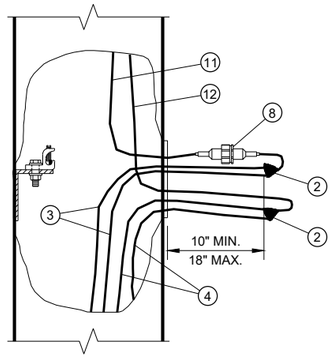
FHWA

SDD 09F11 - 04

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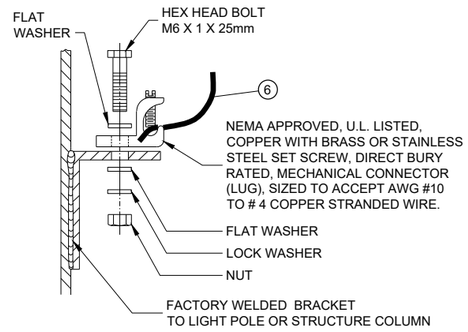


EQUIPMENT GROUNDING CONDUCTOR SLACK



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

TYPICAL CONDUCTOR SLACK AT HANDHOLES



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.

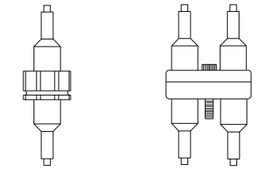
USE THIS DETAIL IN CONJUNCTION WITH THE ELECTRICAL DETAILS FOR THE APPLICATION, WHICH MAY BE A LIGHT POLE, SIGN BRIDGE, ETC.

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 NYLON 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.



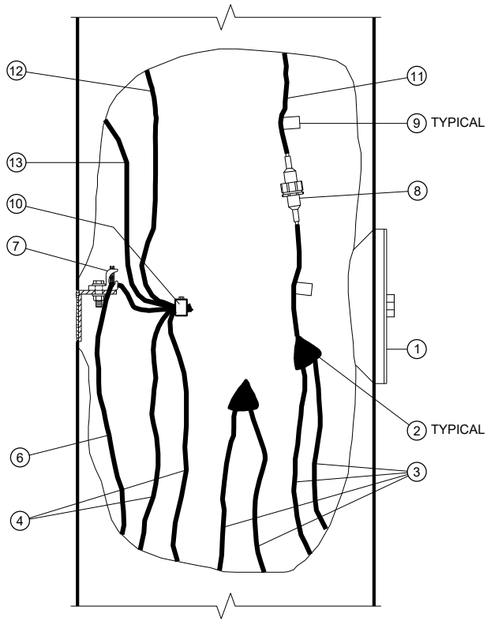
1 POLE (1P) 2 POLE (2P)

FUSE ASSEMBLIES

CONDUCTOR COLOR CODES

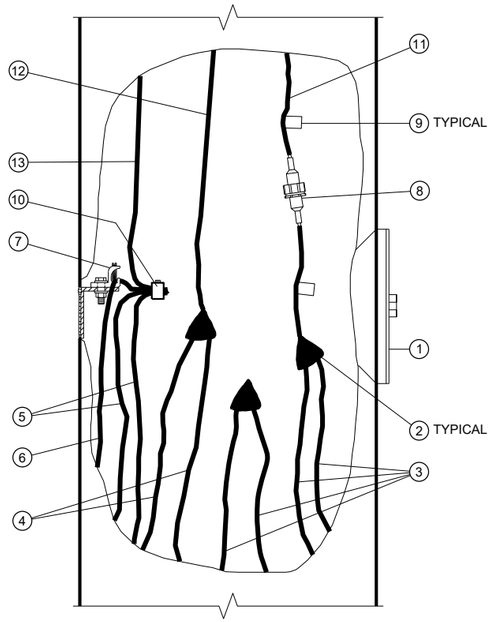
KEY	CONDUCTOR	COLOR
3	UNGROUNDED LINE WIRE	*
4	GROUNDED LINE WIRE	WHITE
5	SYSTEM GROUNDING LINE WIRE	GREEN
6	GROUNDING ELECTRODE CONDUCTOR	BARE
11	UNGROUNDED POLE WIRE	*
12	GROUNDED POLE WIRE	WHITE
13	EQUIPMENT GROUNDING POLE WIRE	GREEN

* 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.



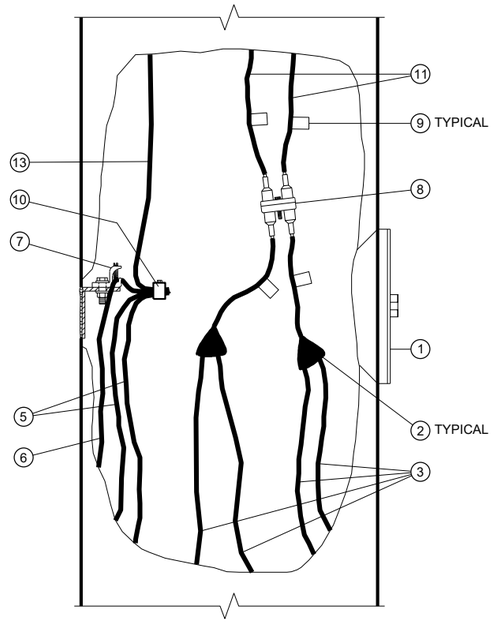
CUTAWAY HANDHOLE DETAIL

GROUNDED NEUTRAL SYSTEMS
1-ϕ



CUTAWAY HANDHOLE DETAIL

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



CUTAWAY HANDHOLE DETAIL

PHASE TO PHASE SYSTEMS
1-ϕ SHOWN; 3-ϕ DELTA 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.

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

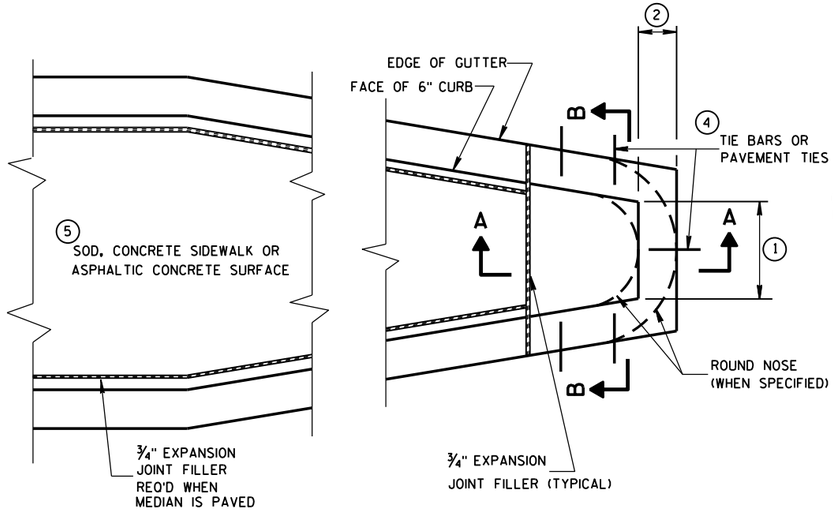
APPROVED
May 2022
DATE

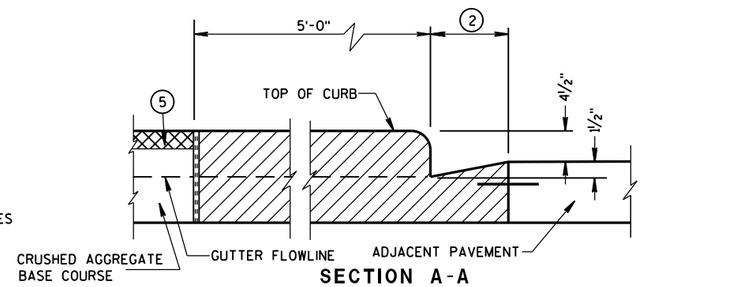
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

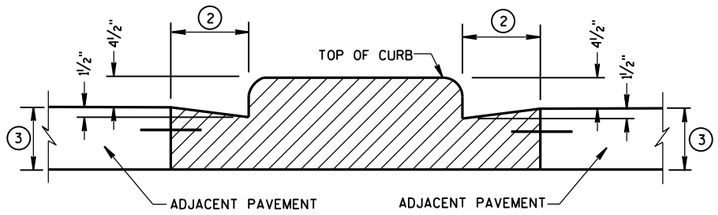
FHWA

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SDD 10A01 - 04







CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

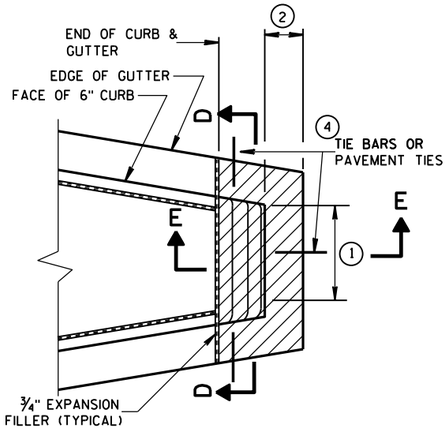
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

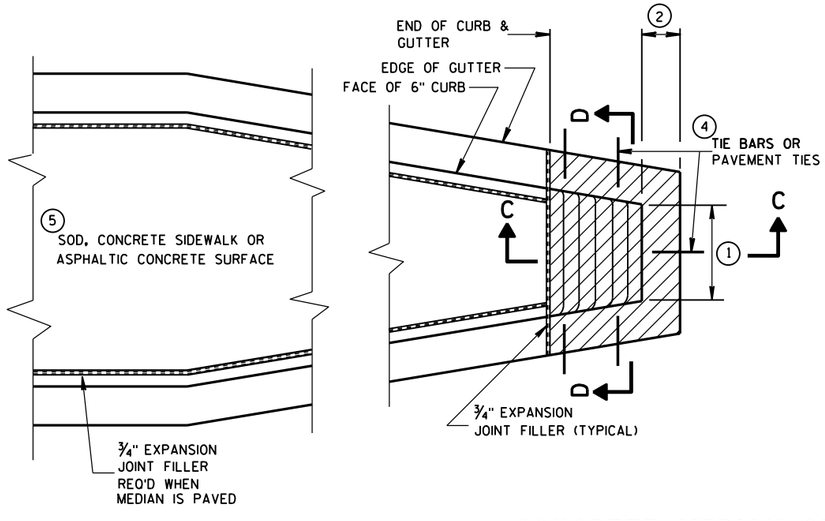
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

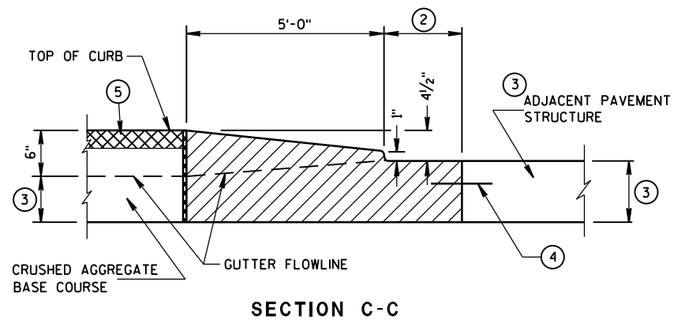
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

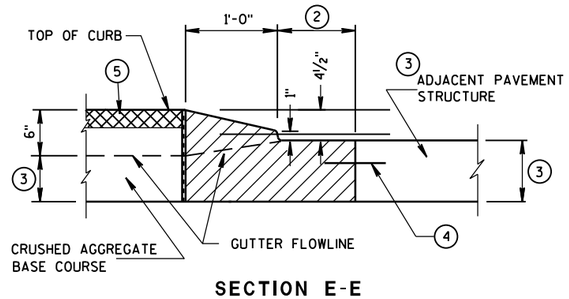
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



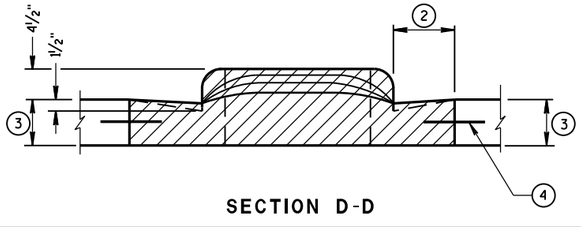


CONCRETE MEDIAN SLOPED NOSE TYPE 1





CONCRETE MEDIAN SLOPED NOSE TYPE 2



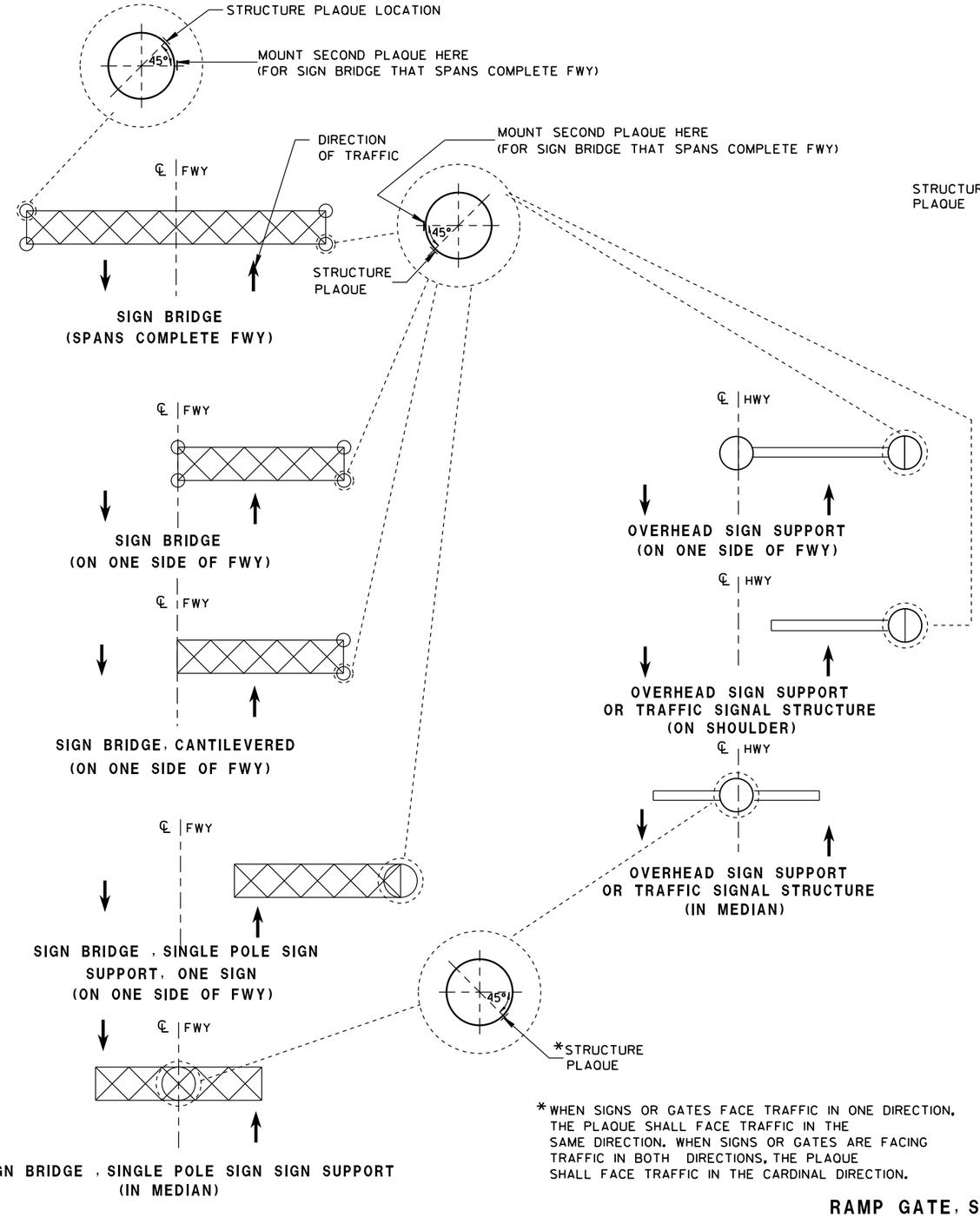
CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/8/2006 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

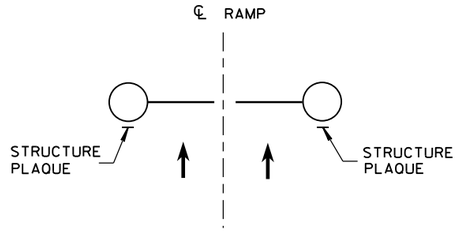
S.D.D. 11 B 2-2

S.D.D. 11 B 2-2

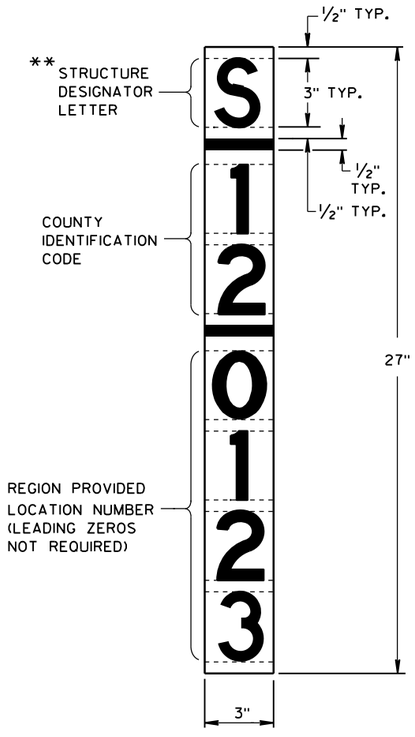


*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.

LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES



**RAMP GATE
(ACROSS FWY ON-RAMP)**



RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

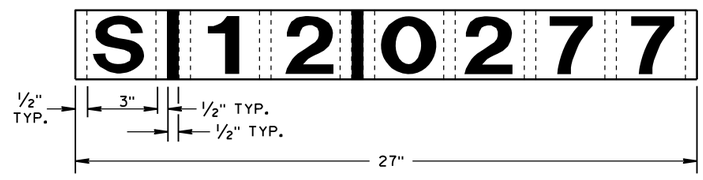
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

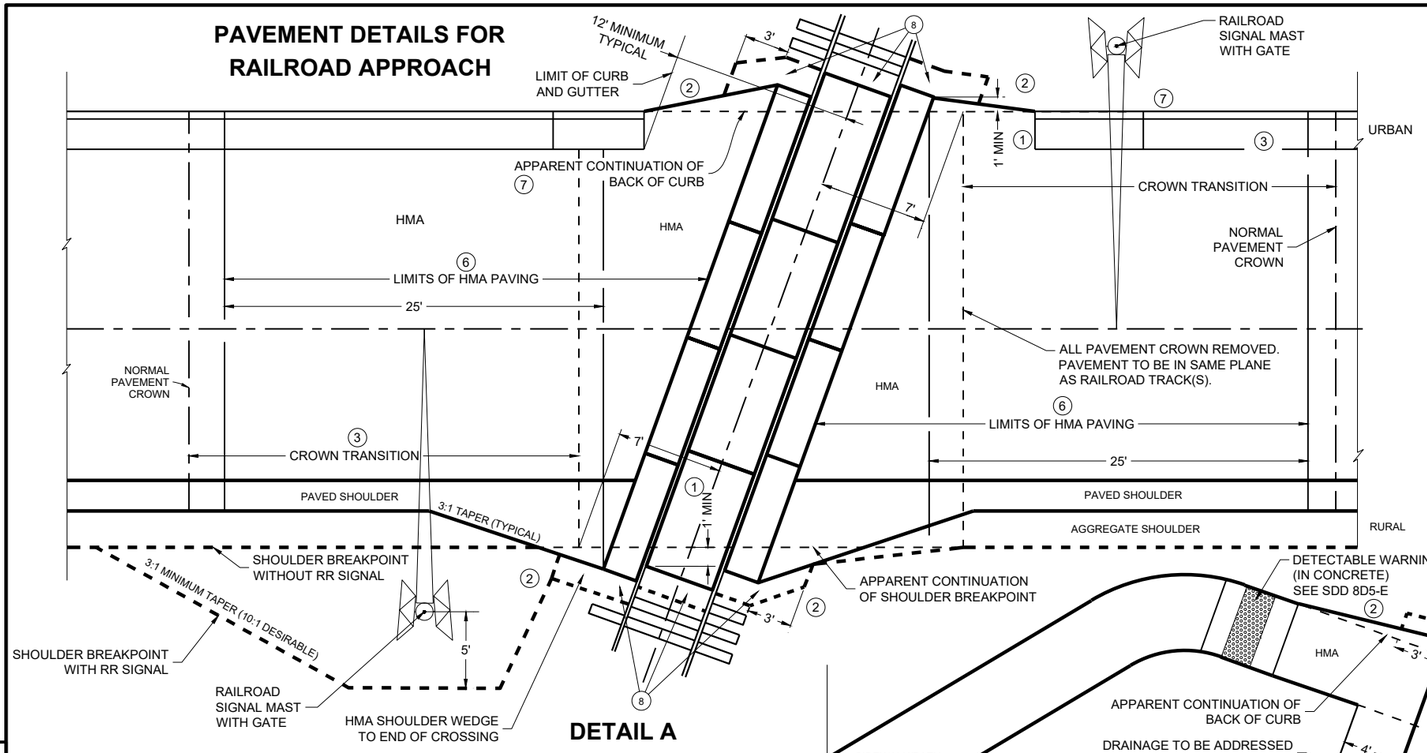
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 12 A 4-3

PAVEMENT DETAILS FOR RAILROAD APPROACH



DETAIL A
RAILROAD APPROACH

GENERAL NOTES CONTINUED

(1) 1' MINIMUM CROSSING SURFACE COVERAGE PAST THE APPARENT CONTINUATION OF SHOULDER BREAKPOINT, BACK OF CURB, OR OUTSIDE EDGE OF SIDEWALK/PATH. INDIVIDUAL RAILROADS MAY HAVE DIFFERENT MINIMUM STANDARDS.

(2) HMA FLARE FROM OUTSIDE EDGE OF SIDEWALK/PATH, BACK OF CURB, OR AGGREGATE SHOULDER BREAKPOINT TO THE END OF CROSSING SURFACE MATERIAL.

(3) CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.

(4) NEAR EDGE OF PATH TO THE CENTER OF SIGNAL OR GATE MAST SHOULD BE A MINIMUM OF 5'-0". FOR SIDEWALK, THE NEAR EDGE SHOULD BE A MINIMUM OF 3'-0" TO THE CENTER OF SIGNAL OR GATE. NEAR EDGE OF SIDEWALK TO A NON-GATED MAST OR CANTILEVER SHOULD BE A MINIMUM OF 2'-6". SEE PLAN FOR RAILROAD SIGNAL AND GATE LOCATION IF THEY ARE NOT ALREADY INSTALLED.

(5) TERRACE WIDTH VARIES. SEE PLAN FOR RAILROAD SIGNAL AND GATE LOCATIONS. PER PLAN OR PROJECT ENGINEER THE TERRACE AND SIDEWALK/PATH GRADES SHALL BE TRANSITIONED TO MATCH THE GRADE OF THE TRACK. FIELD FIT TO AVOID PONDING.

(6) 25' MINIMUM HMA PAVING MEASURED PARALLEL TO THE ROAD OR 10' MINIMUM MEASURED PERPENDICULAR TO THE TRACK FROM THE EDGE OF THE CROSSING SURFACE, WHICHEVER IS GREATER.

(7) REFERENCE SDD 8-D-01 END SECTION CURB AND GUTTER. MEDIAN END NEAR THE TRACK SHOULD BE PARALLEL TO THE TRACK. 6'-0" TAPER FOR A MEDIAN SHOULD BE REDUCED TO GET FULL HEIGHT CURB WHERE THE GATE COMES DOWN. DESIGN OPTION TO POUR MEDIAN TAPER IN ONE PIECE. BUILD PER PLAN UNLESS OTHERWISE APPROVED BY THE RAILROAD ENGINEER AND THE PROJECT ENGINEER.

(8) IF METAL END PLATES ARE NOT INSTALLED BY THE RAILROAD THEN HMA PAVEMENT WEDGE SHALL BE PLACED AT THE END OF THE LAST PANEL TAPERED TO BACK EDGE OF NEXT TIE AND THOROUGHLY COMPACTED. SEE DETAIL G.

GENERAL NOTES

PLANS AND SECTIONS ARE TYPICAL. DIMENSIONS VARY PER PROJECT.

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

CROSSING SURFACE MATERIAL, RAILS, TIES, BALLAST, AND CROSSING DRAINAGE SYSTEM BY OTHERS UNLESS DIRECTED OTHERWISE. IF THE FINAL GRADES DON'T MATCH TO THE PLAN GRADES THEN GRADE ADJUSTMENTS WILL BE NECESSARY. CONFIRM NEW GRADES WITH PROJECT ENGINEER.

HMA PAVEMENT APPROACHES, HMA PAVEMENT CROSSING SURFACES, AND HMA FLANGEWAY/FIELD FILLERS TO BE REPLACED BY ROADWAY CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE PLANS, SPECIAL PROVISIONS, RAILROAD ENGINEER, OR PROJECT ENGINEER.

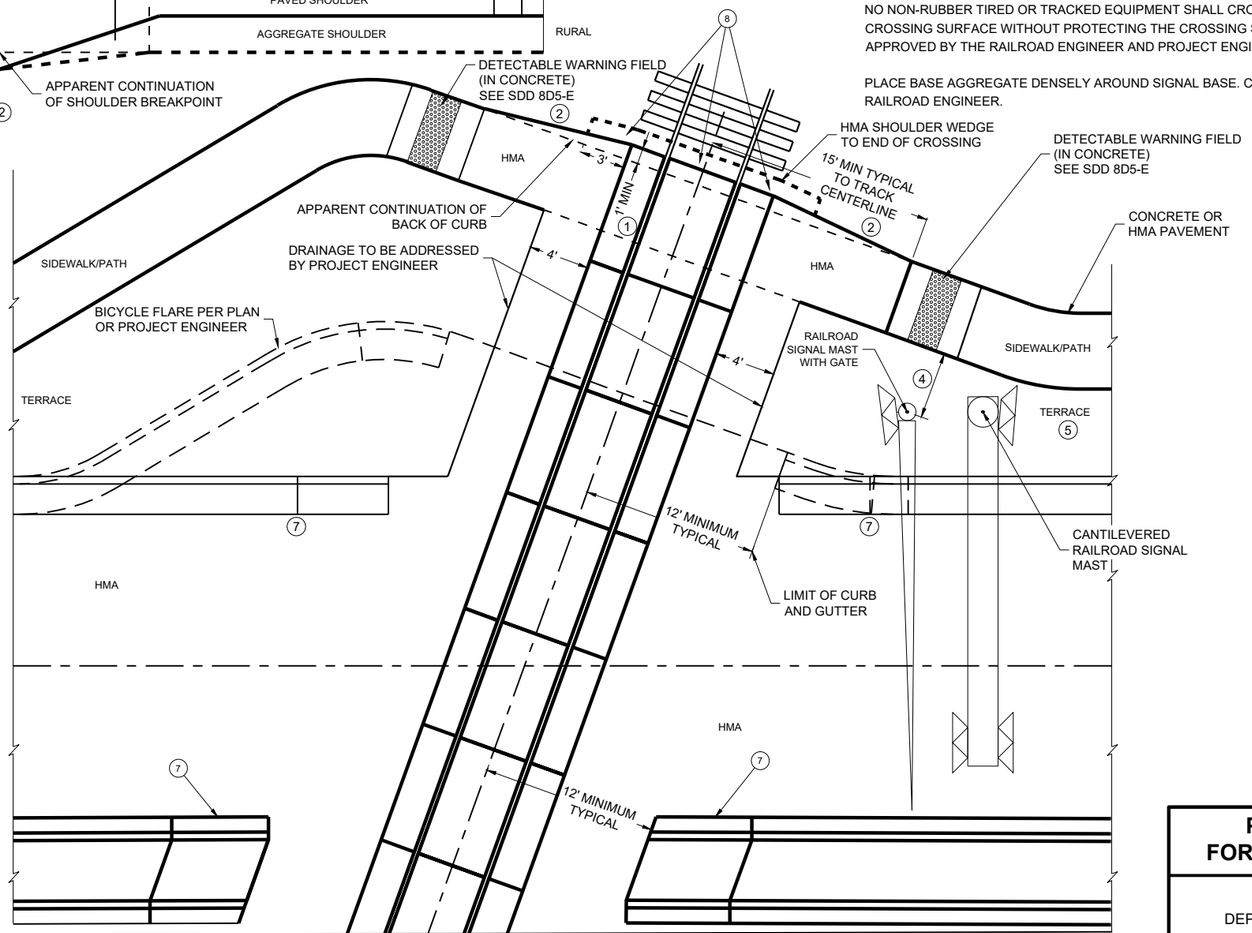
HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

WHEN THERE IS A SIDEWALK OR SHARED-USE PATH, ADD DETECTABLE WARNING FIELDS PER CURRENT STANDARD DETAIL DRAWING 8D5-E.

THE CROSSING SHALL NOT BE OPENED TO ANY TYPE OF TRAFFIC UNTIL IT IS FULLY PAVED AND COOLED SUFFICIENTLY UNLESS OTHERWISE APPROVED BY THE RAILROAD ENGINEER AND THE PROJECT ENGINEER.

NO NON-RUBBER TIRED OR TRACKED EQUIPMENT SHALL CROSS OR SIT ON THE CROSSING SURFACE WITHOUT PROTECTING THE CROSSING SURFACE WITH A METHOD APPROVED BY THE RAILROAD ENGINEER AND PROJECT ENGINEER.

PLACE BASE AGGREGATE DENSELY AROUND SIGNAL BASE. COORDINATE WITH THE RAILROAD ENGINEER.



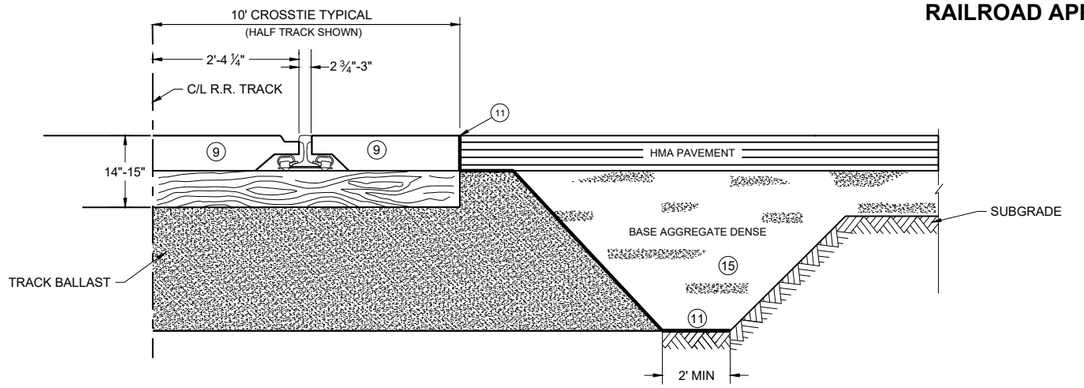
DETAIL B
MEDIAN AND SIDEWALK/SHARED-USE PATH APPROACH

PAVEMENT DETAILS FOR RAILROAD APPROACH

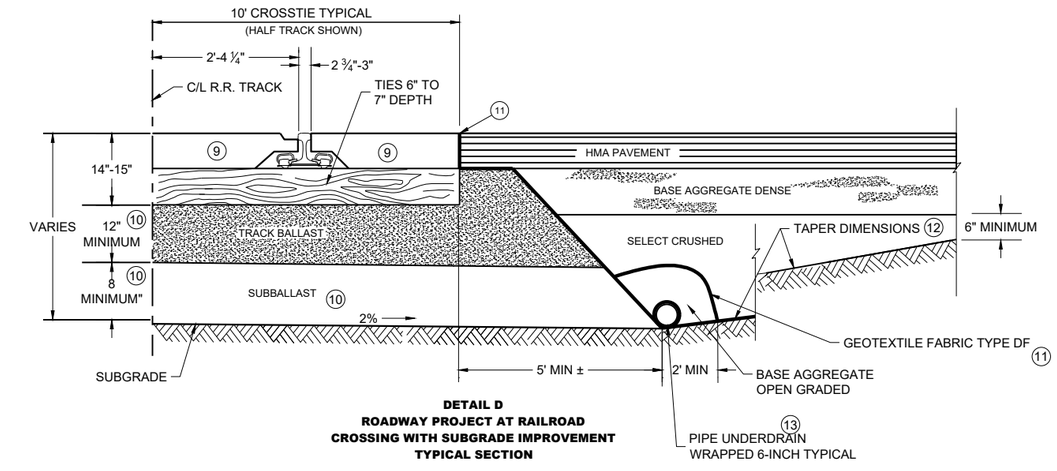
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Kristen Sommers — STATE RAILROAD ENGINEERING AND SAFETY SUPERVISOR
FHWA

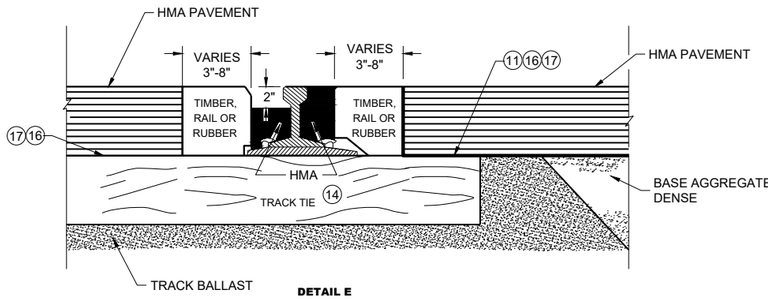
TYPICAL SECTIONS FOR RAILROAD APPROACH



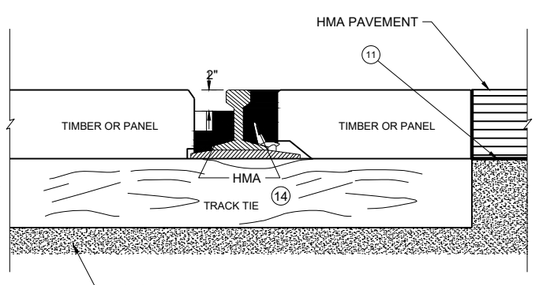
DETAIL C
ROADWAY PROJECT AT RAILROAD
CROSSING WITHOUT SUBGRADE IMPROVEMENT
TYPICAL SECTION



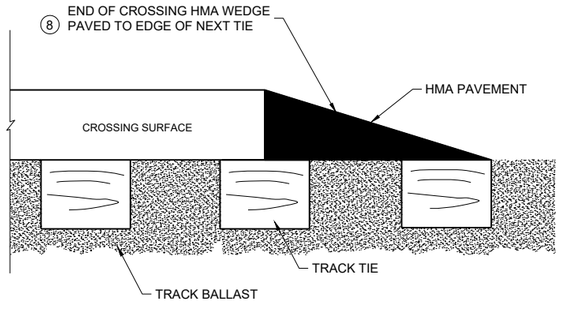
DETAIL D
ROADWAY PROJECT AT RAILROAD
CROSSING WITH SUBGRADE IMPROVEMENT
TYPICAL SECTION



DETAIL E
TIMBER, RAIL OR RUBBER SECTION
HMA FLANGEWAY
AND FIELD FILLERS



DETAIL F
PANEL SECTION
HMA FLANGEWAY
AND FIELD FILLERS



DETAIL G
END OF CROSSING HMA WEDGE

GENERAL NOTES

(8) IF METAL END PLATES ARE NOT INSTALLED BY THE RAILROAD THEN HMA PAVEMENT WEDGE SHALL BE PLACED AT THE END OF THE LAST PANEL TAPERED TO BACK EDGE OF NEXT TIE AND THOROUGHLY COMPACTED. SEE DETAIL A AND B.

(9) MATCH THE CROSSING TYPE THAT IS INSTALLED UNLESS OTHERWISE DIRECTED BY PROJECT ENGINEER.

(10) TRACK BALLAST AND SUBBALLAST REQUIRED 12" AND 8" MINIMUM DEPTHS RESPECTIVELY. DIMENSION FROM BOTTOM OF TRACK TIE TO HIGH SIDE OF 2% SLOPE. THE 2% SLOPE IS REQUIRED ON RAILROAD SUBBALLAST. SEE PLAN FOR CROWN, MATERIAL THICKNESS, AND SLOPE DIRECTION. SUBBALLAST CAN BE HMA, 1 1/2" BASE AGGREGATE DENSE, SELECT CRUSHED, OR A COMBINATION OF THEM.

(11) GEOTEXTILE FABRIC TYPE SAS PLACED IN ORDER TO PROVIDE STABILIZATION AND SEPARATION ON TOP OF THE TRACK BALLAST WHERE IT IS UNDER HMA PAVEMENT, BASE AGGREGATE DENSE OR SELECT CRUSHED MATERIAL AND THE FIELD SIDE BALLAST CRIBS. GEOTEXTILE FABRIC TYPE DF PLACED IN ORDER TO PROVIDE STABILIZATION AND SEPARATION UNDER AND AROUND THE PIPE UNDERDRAIN. PLACING GEOTEXTILE FABRIC OR GEOGRID UNDER THE SUBBALLAST IS OPTIONAL.

(12) TAPER DIMENSIONS PROVIDED BY PLAN OR BY PROJECT ENGINEER.

(13) IF SHOWN ON THE PLAN, TYPICAL 6-INCH PERFORATED PVC SCHEDULE 80 PIPE UNDERDRAIN TO BE PLACED ALONG THE TOE OF SLOPE, GRADED TO DRAIN AND DAYLIGHT OR INTO STORM SEWER. BASE AGGREGATE OPEN GRADED OVER PIPE UNDERDRAIN AND THEN WRAPPED IN GEOTEXTILE FABRIC TYPE DF SCHEDULE A IN ORDER TO STABILIZE AND SEPARATE FROM SELECT CRUSHED.

(14) HMA FLANGEWAY AND FIELD FILLERS ARE TO BE PLACED AND THOROUGHLY HAND COMPACTED BY THE CONTRACTOR, WHEN NOT PROVIDED BY OTHERS AS PART OF THE CROSSING SURFACE MATERIAL. IF THE CROSSING SURFACE IS NOT BEING REPLACED, THEN REMOVE AND REPLACE THE HMA FLANGEWAY AND FIELD FILLERS AS DIRECTED BY THE RAILROAD OR PROJECT ENGINEER.

(15) GRADE TO MATCH EXISTING OR PROPOSED TYPICAL SECTION OF ROADWAY. SEE PLAN OR PROJECT ENGINEER FOR MORE DETAIL. IF NOT NOTED OTHERWISE IN THE PLAN, BACKFILL ANY REMOVED BASE AND SUBGRADE WITH BASE AGGREGATE DENSE.

(16) IF THE CROSSING IS NOT BEING REPLACED, REMOVE AND REPLACE HMA AS DIRECTED BY RAILROAD AND PROJECT ENGINEER. CARE MUST BE TAKEN TO NOT DAMAGE CROSSING PANELS, TIES, RAIL, PLATES AND SPIKES.

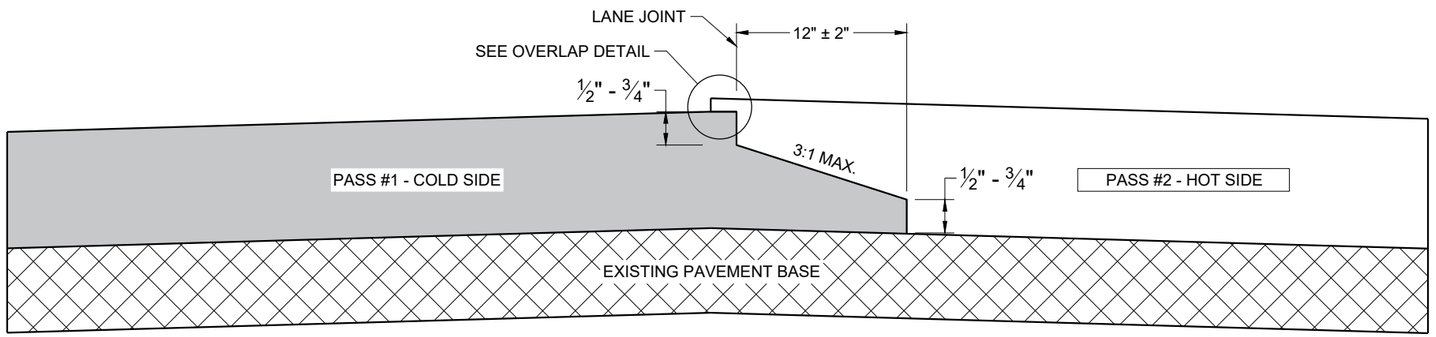
(17) PLACE HMA FULL DEPTH. AGGREGATE IS NOT TO BE PLACED BETWEEN THE RAILROAD TIES AND THE HMA PAVEMENT.

TYPICAL SECTIONS FOR RAILWAY APPROACH

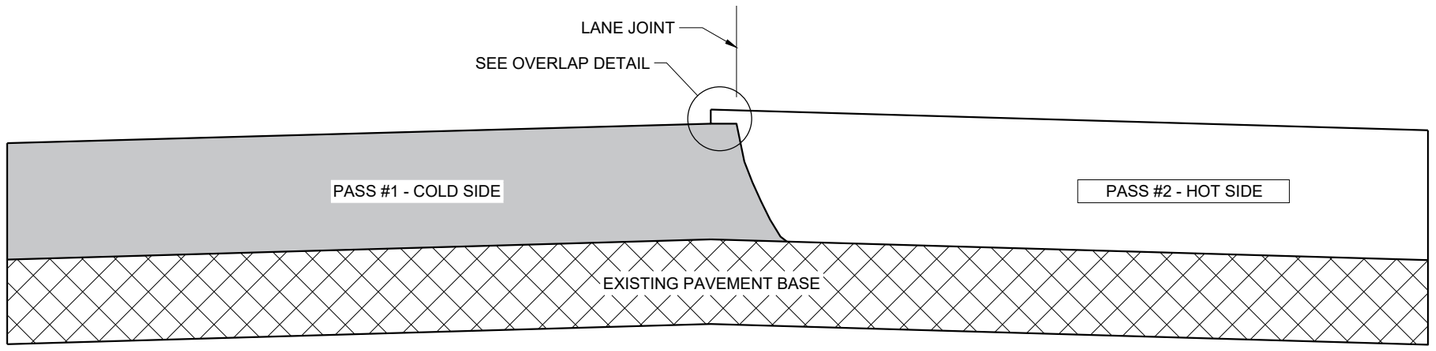
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Kristen Sommers — STATE RAILROAD ENGINEERING AND SAFETY SUPERVISOR
FHWA

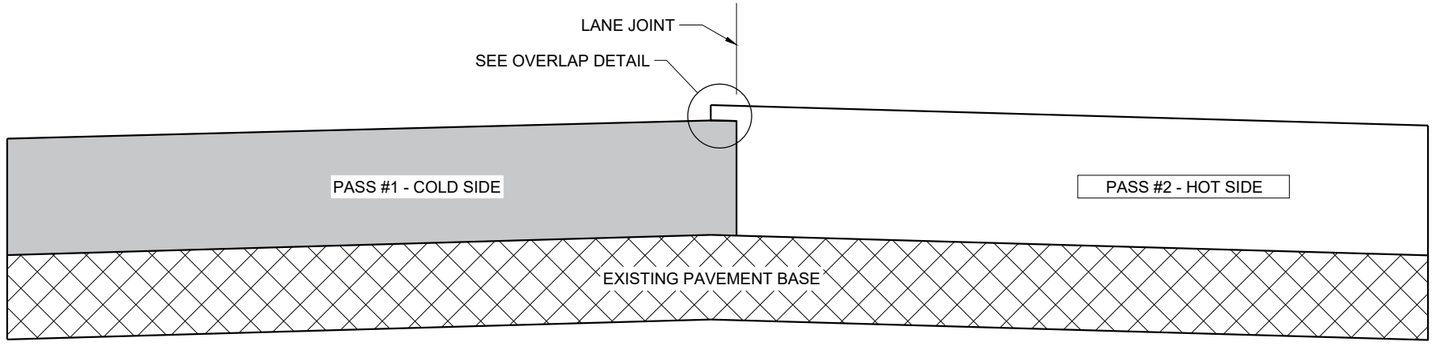
6
SDD 13B01-11b



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

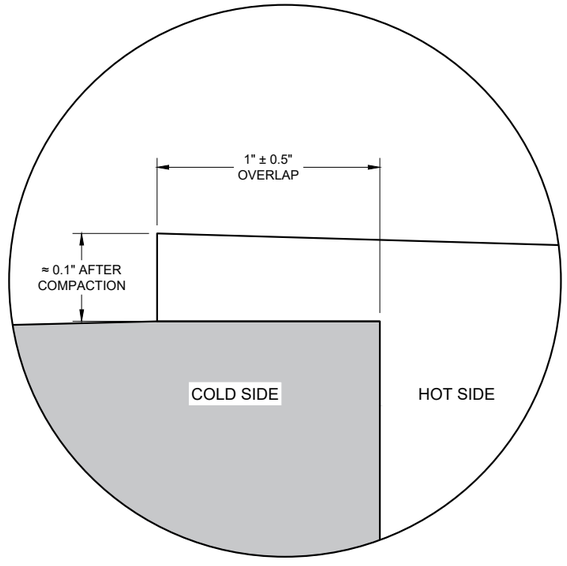
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

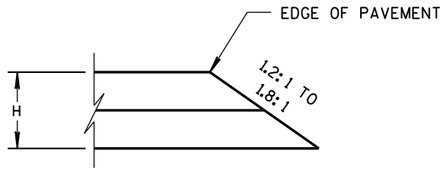
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

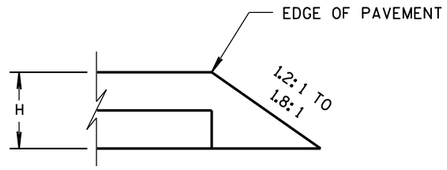
/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



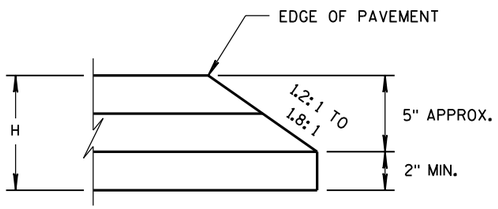
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



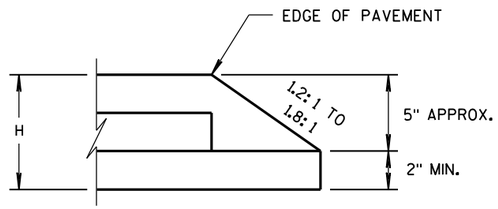
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

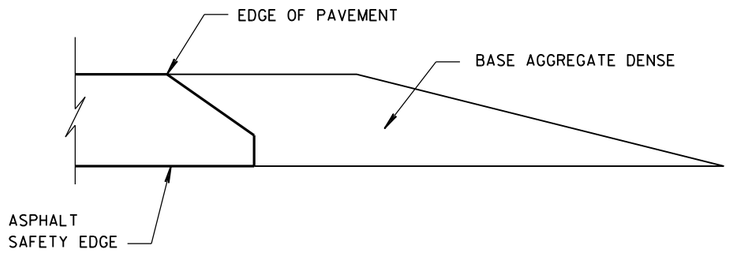
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

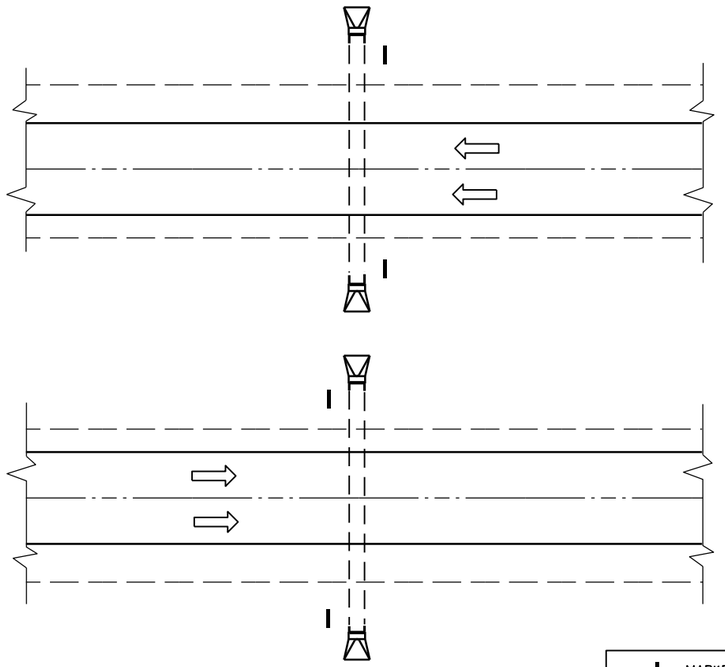
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

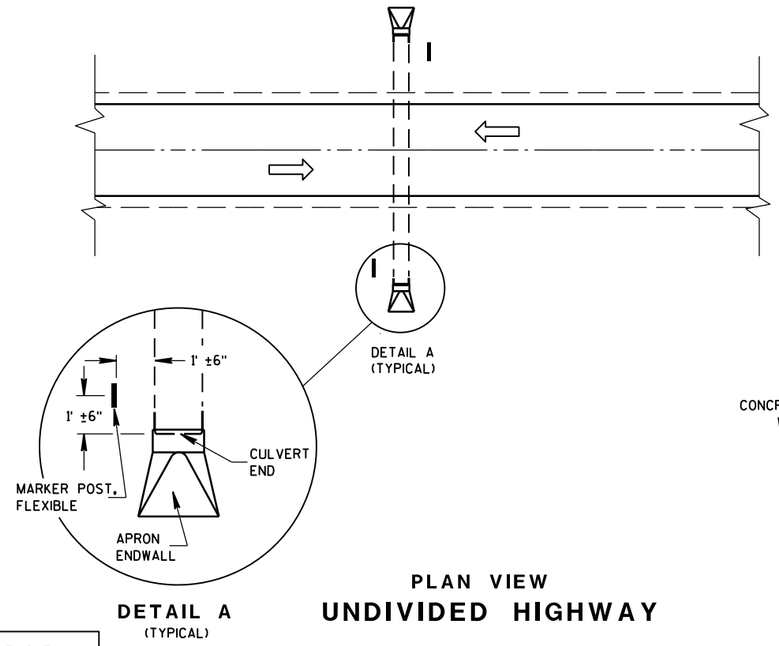
/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

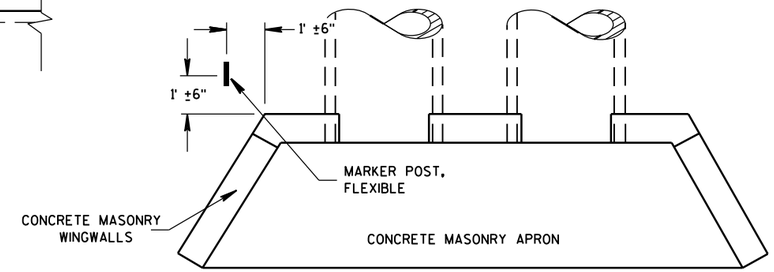
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

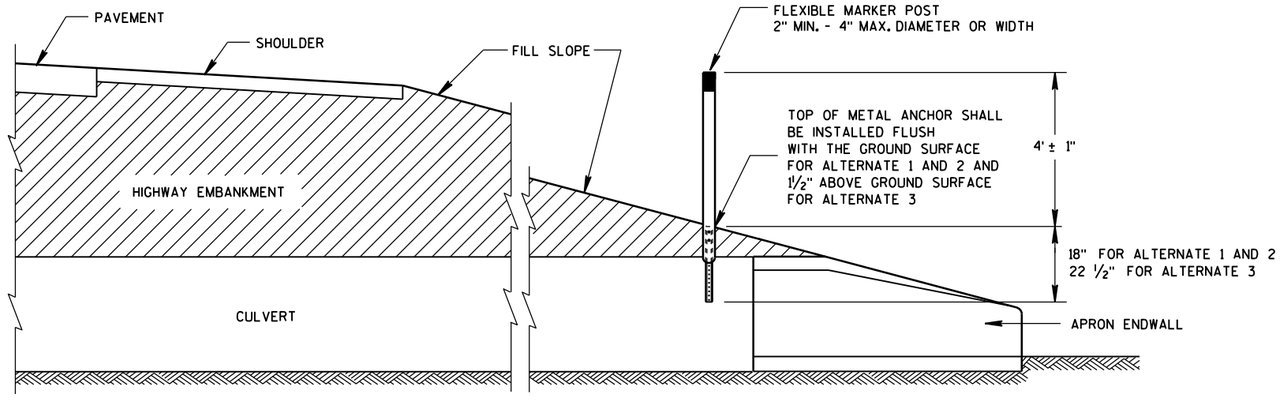
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

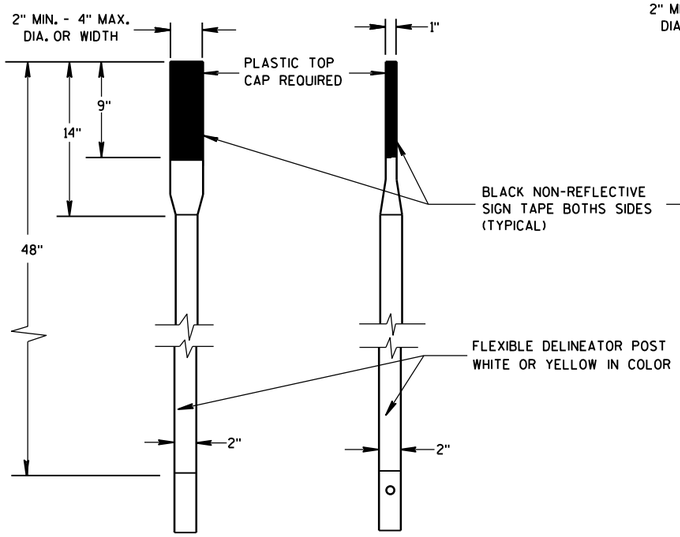
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

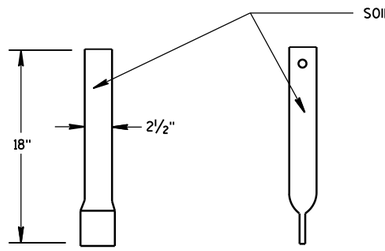
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S.D.D. 15 A 3-2a

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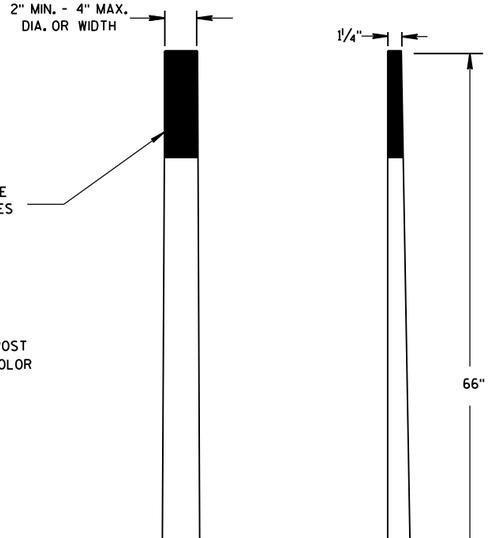
S.D.D. 15 A 3-2a





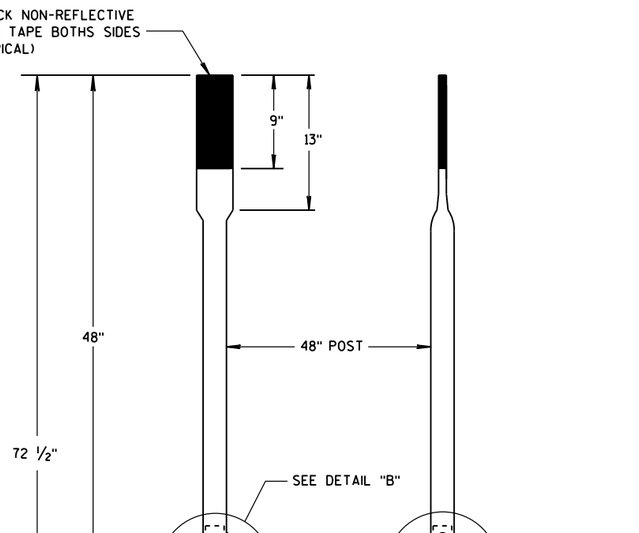
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

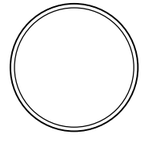
ALTERNATE 2



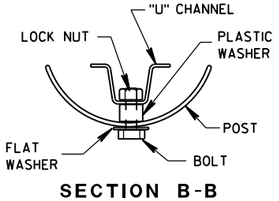
FRONT VIEW SIDE VIEW

ALTERNATE 3

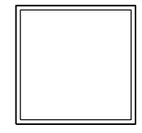
FLEXIBLE MARKER POSTS



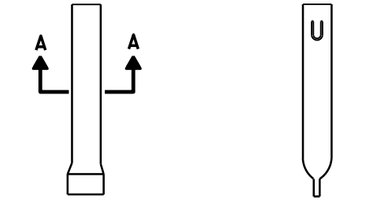
SECTION A-A



SECTION B-B

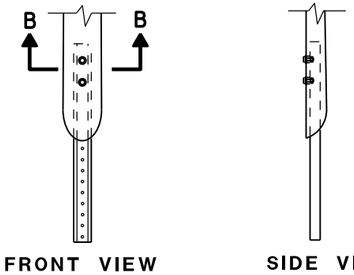


SECTION C-C



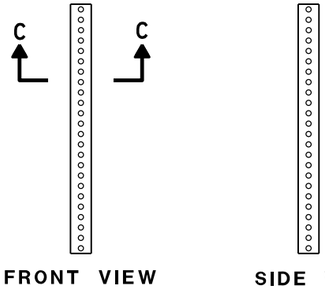
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

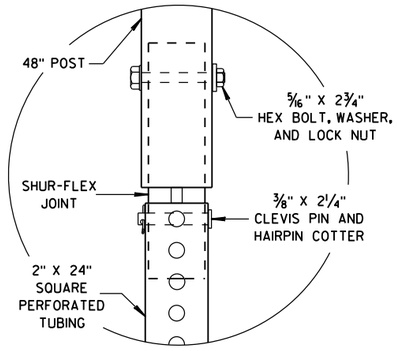
ALTERNATE 2



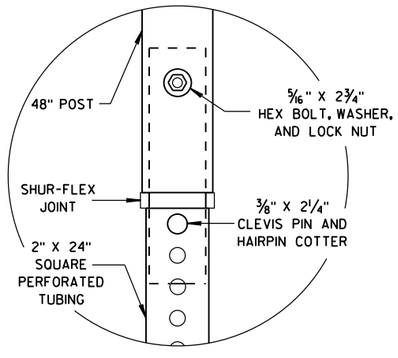
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

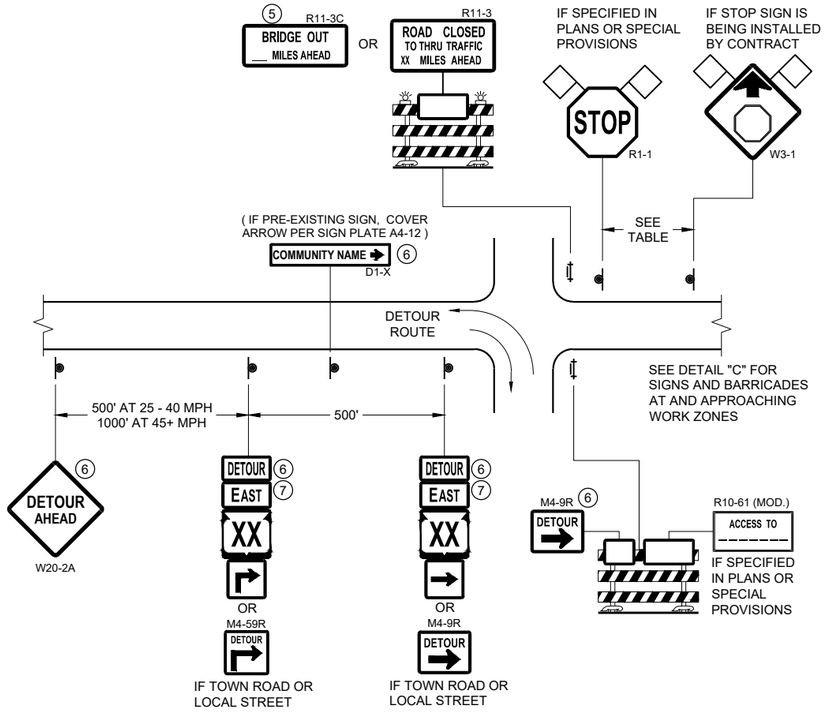
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 A 3-2b

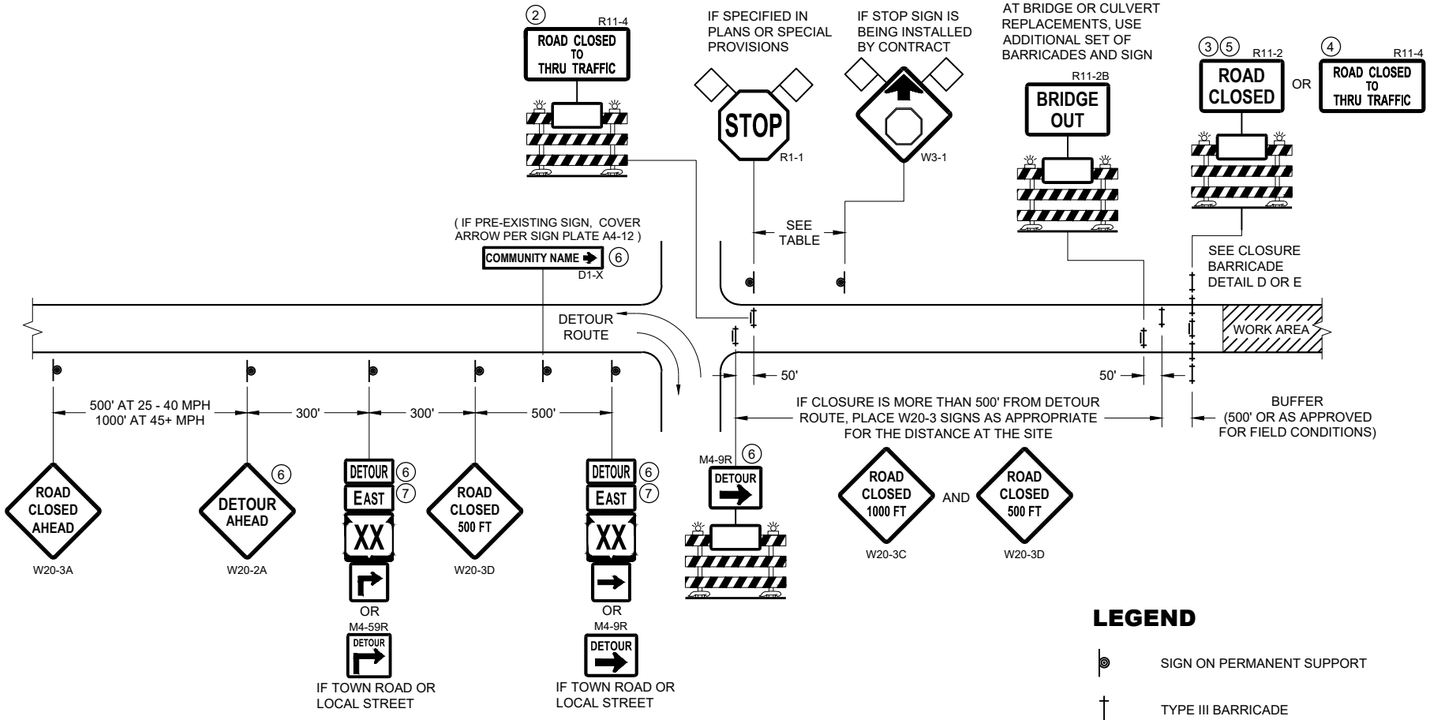
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S.D.D. 15 A 3-2b



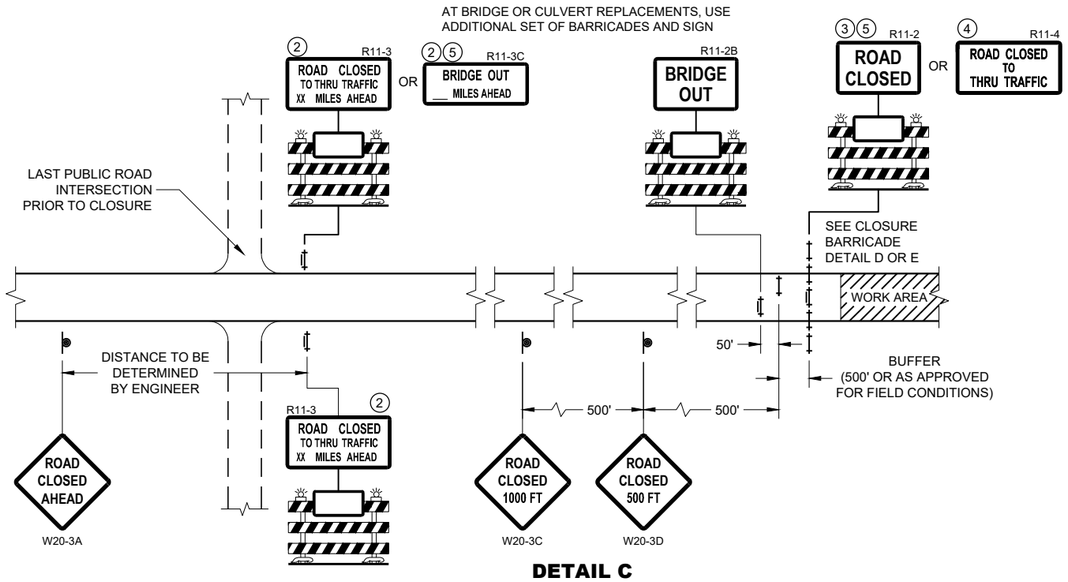
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b" FOR GENERAL NOTES AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

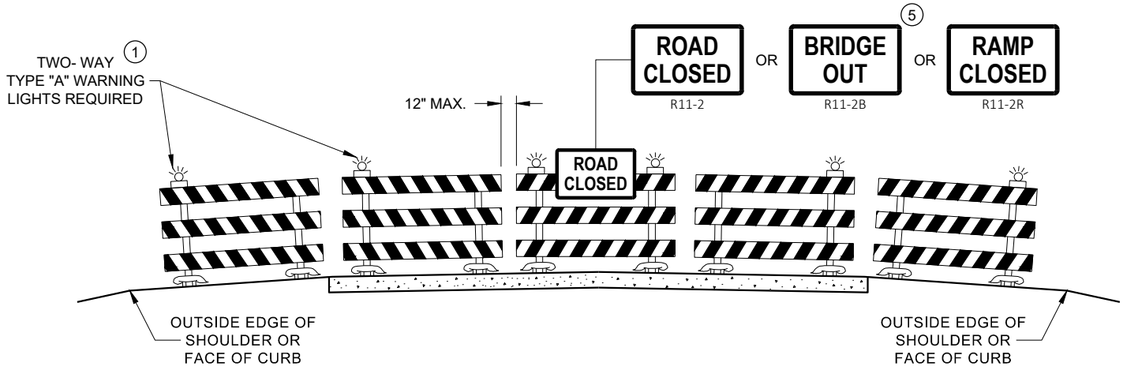
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

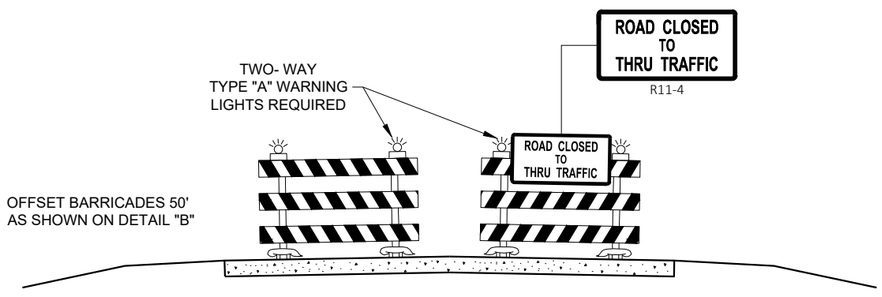
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SDD 15C02 - 09a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT 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
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

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SDD 15C02 - 09b

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SDD 15C02 - 09b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

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

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. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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.

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

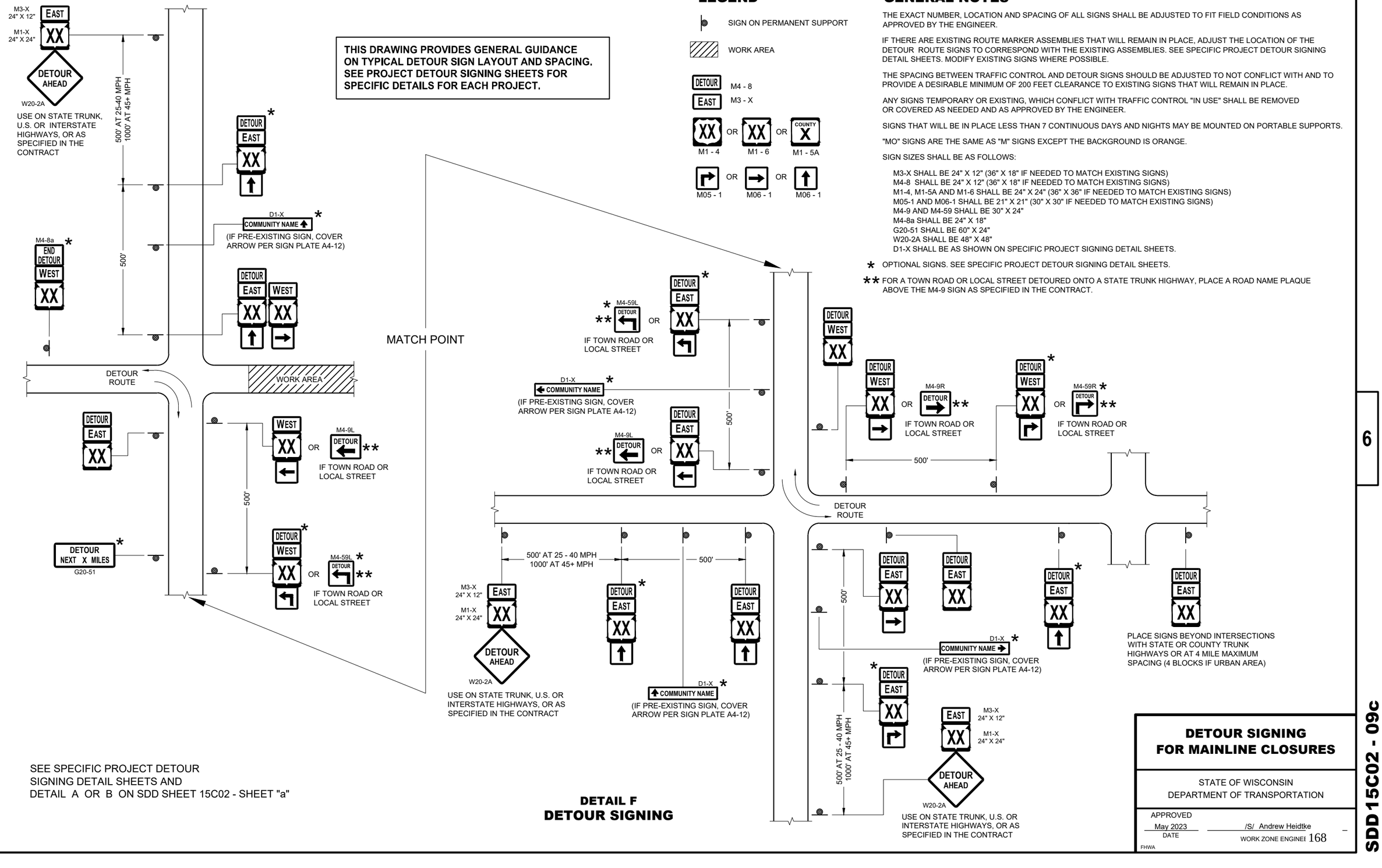
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- 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)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT



SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

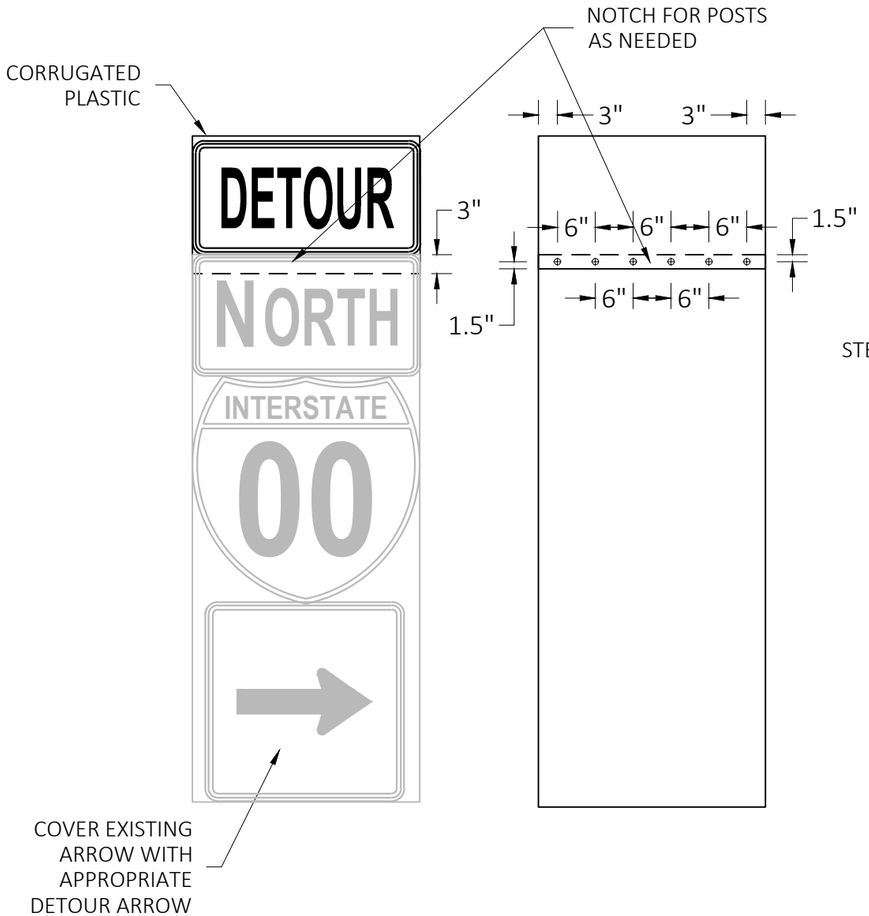
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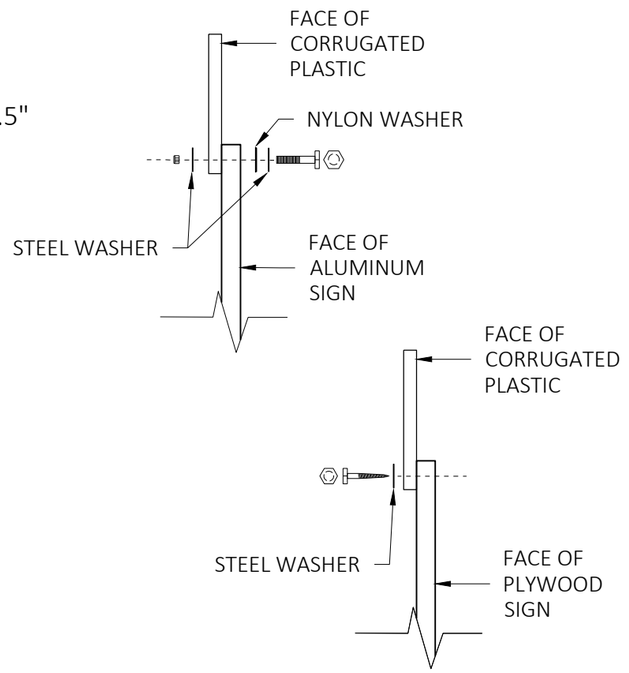
SDD 15C02 - 09c

FRONT SIDE

BACK SIDE

SIDE VIEW





GENERAL NOTES

CELLS OF CORRUGATED PLASTIC SHALL BE VERTICALLY ORIENTED.

PROVIDE A 0.4-INCH THICK BASE CORRUGATED PLASTIC WITH A 0.035-INCH WALL THICKNESS AND 0.4-INCH CELL SIZE.

FOR 36" WIDE SIGNS: USE 6 FASTENERS AS SHOWN.

FOR 24" WIDE SIGNS: USE 4 FASTENERS WITH EDGE SPACING AS SHOWN AND 6" SPACING BETWEEN FASTENERS.

METAL WASHERS, NUTS, BOLTS AND LAGS 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, SC3

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.

PLYWOOD SIGNS:
LAG SCREWS - 5/16" x 1"
ALUMINUM SIGNS:
MACHINE BOLTS - 5/16" x 1-1/4" LENGTH W/NUTS
WASHERS:
1-1/4" O.D. x 3/8" I.D. x 1/16" STEEL
1-1/4" O.D. x 3/8" I.D. x .080 NYLON

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

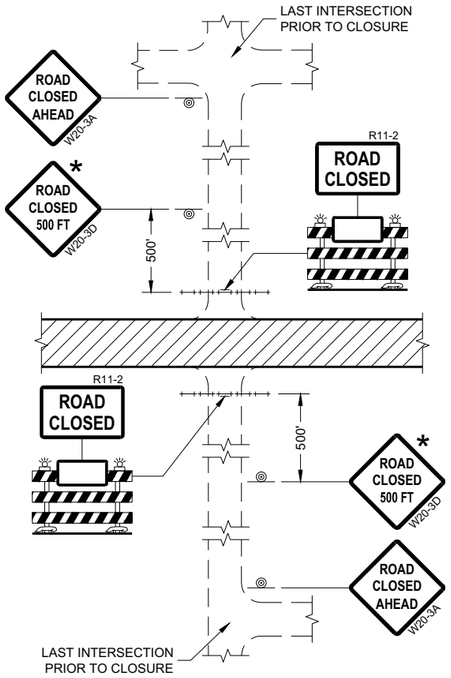
MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

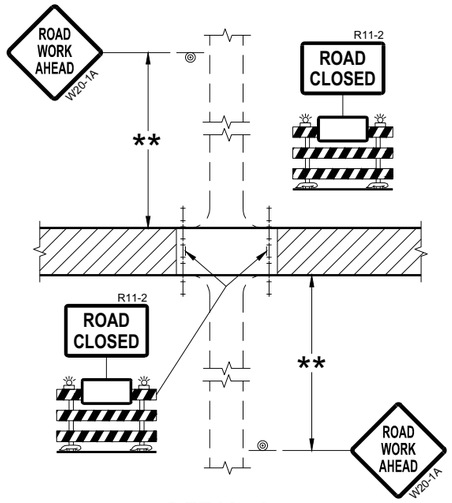
APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

SDD 15C02-09h



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

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 (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.

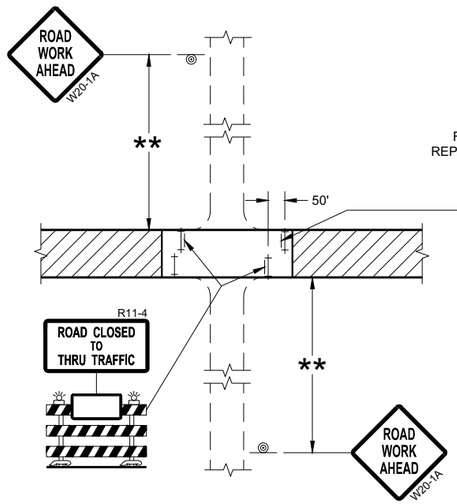
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

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.

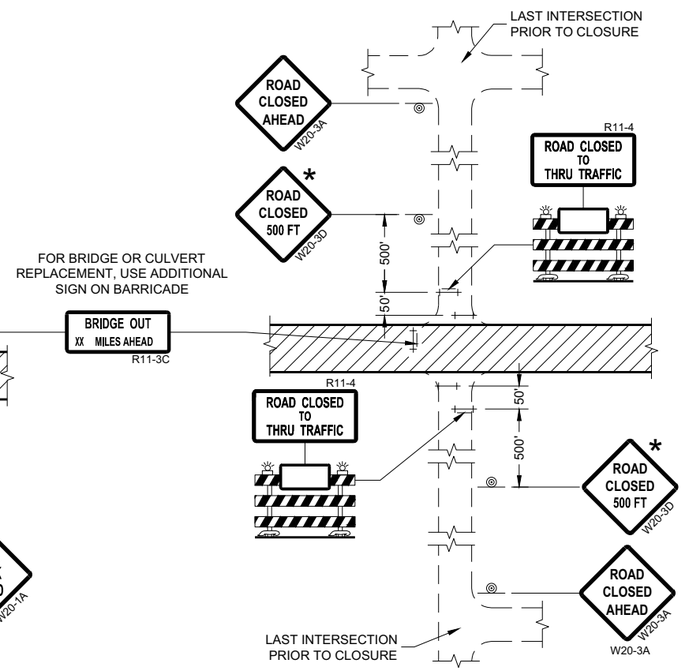
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* 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.



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

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 ENGINEE

FHWA

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SDD 15C03 - 05

SDD 15C03 - 05

GENERAL NOTES

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

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

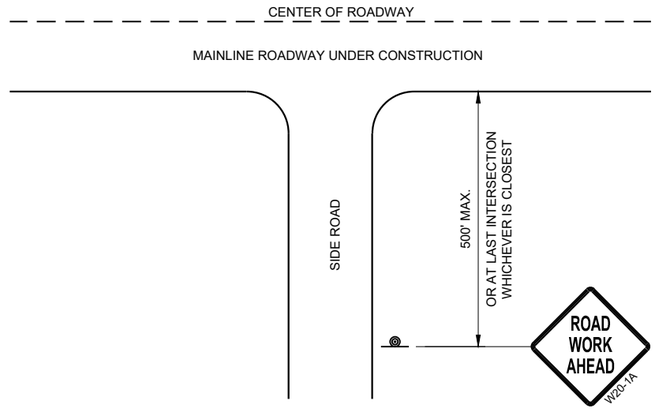
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

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.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



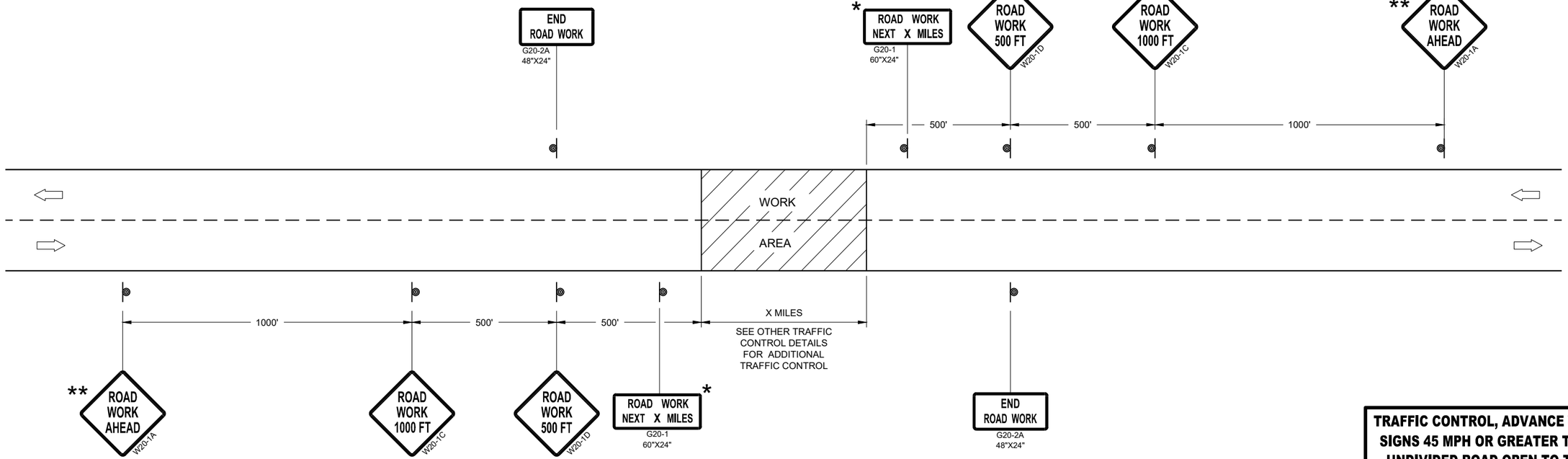
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C04 - 05

GENERAL NOTES

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

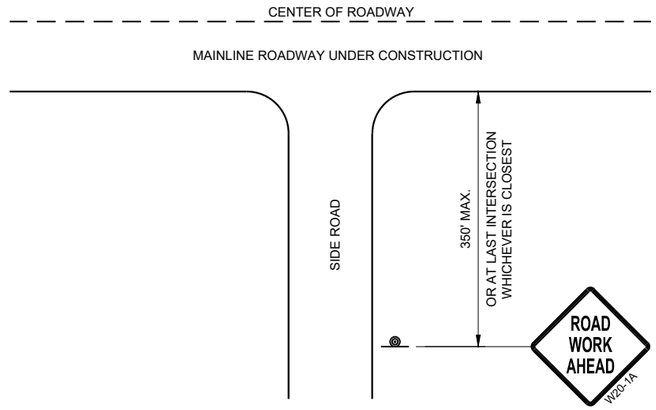
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

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

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.

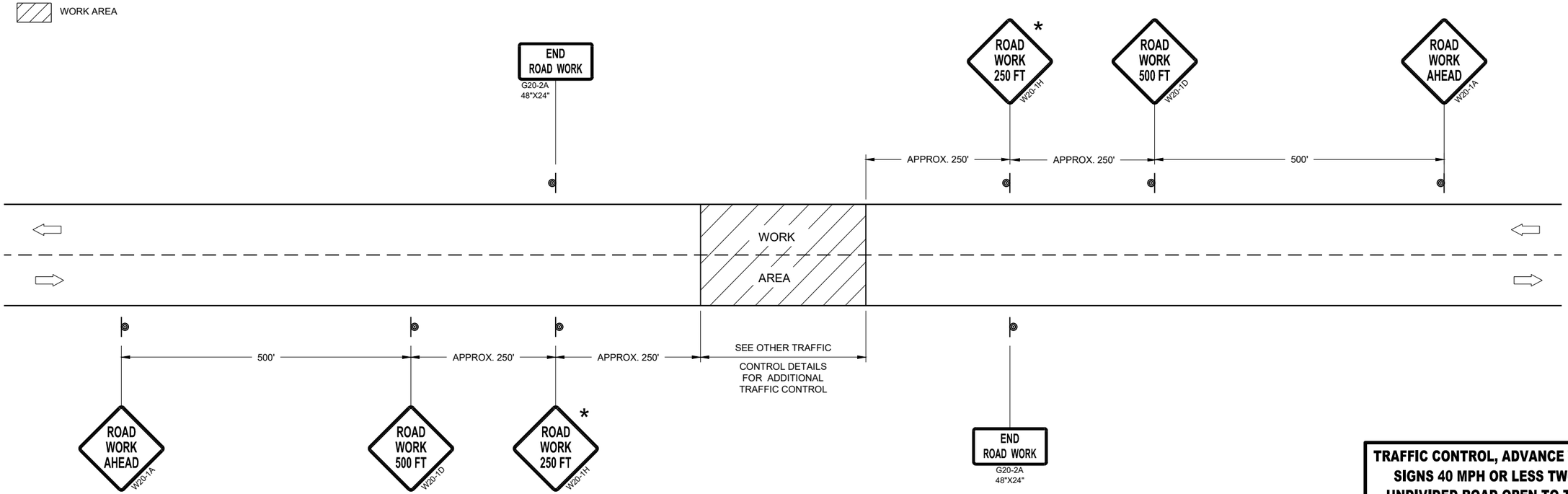
* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
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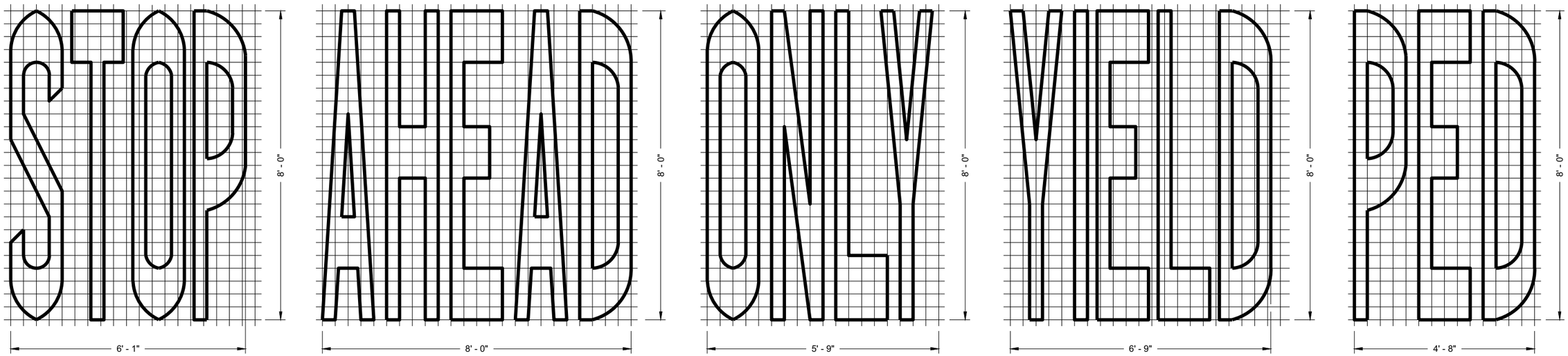
APPROVED
July 2018
DATE

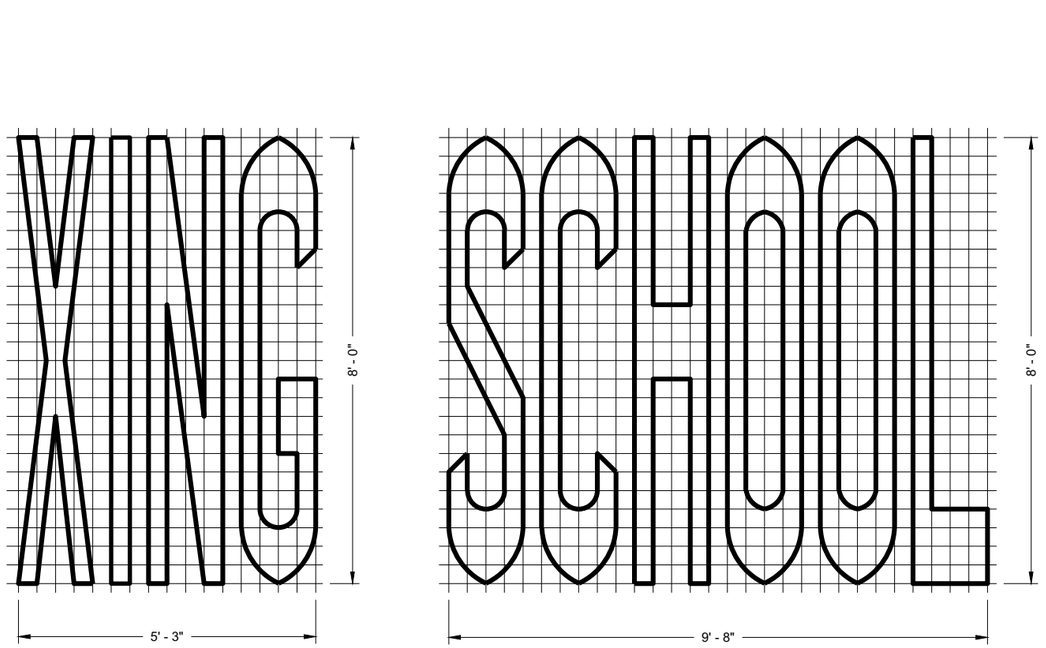
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

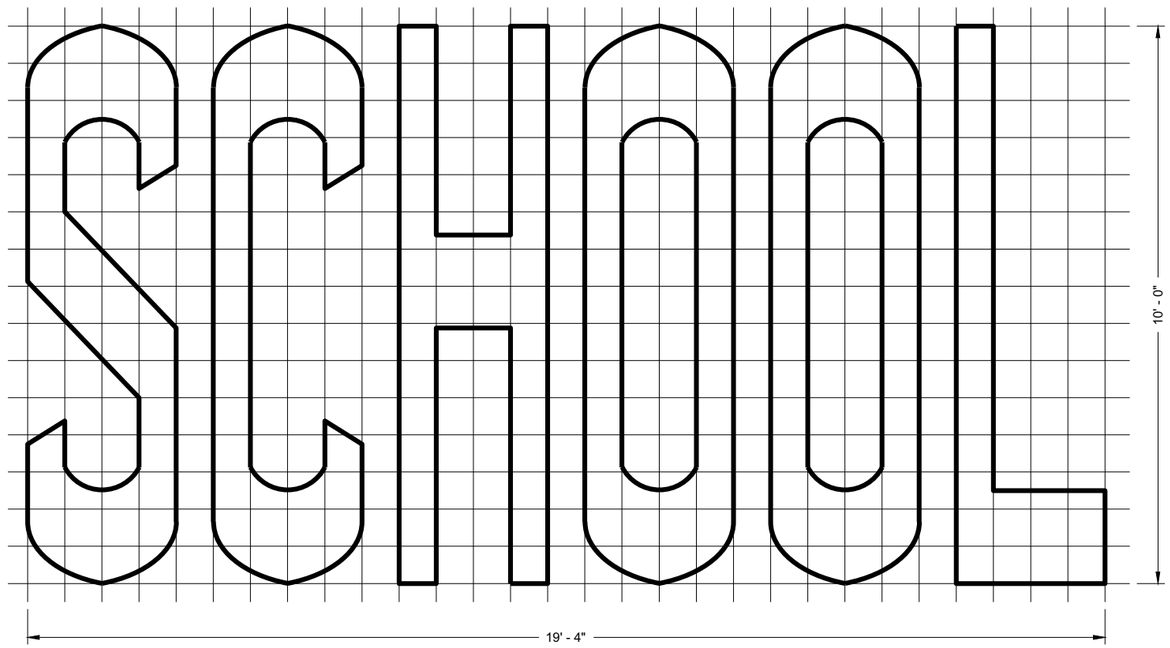
6

SDD 15C05 - 05





SINGLE LANE



TWO - LANE

GENERAL NOTES

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

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

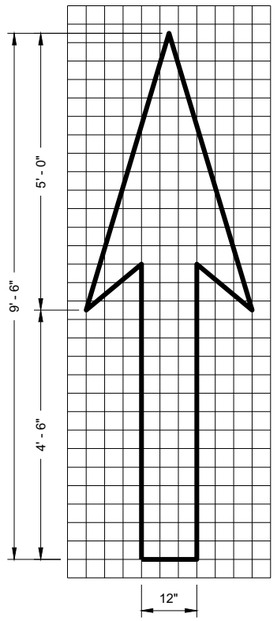
/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

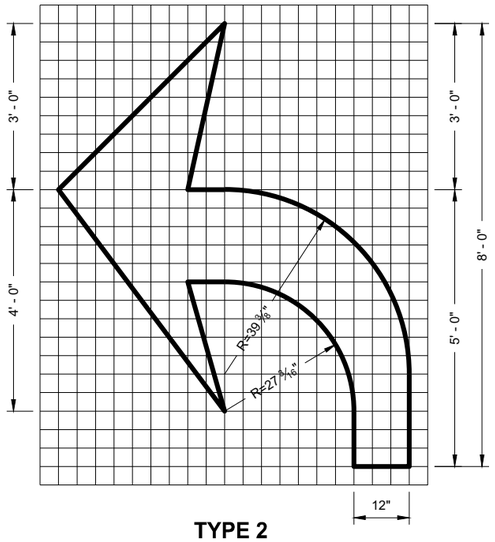
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SDD 15C07 - 15b

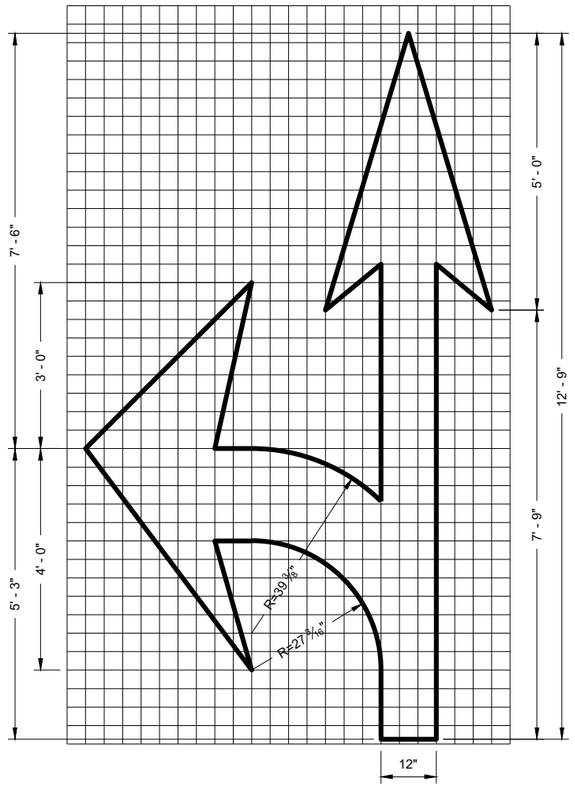
SDD 15C07 - 15b



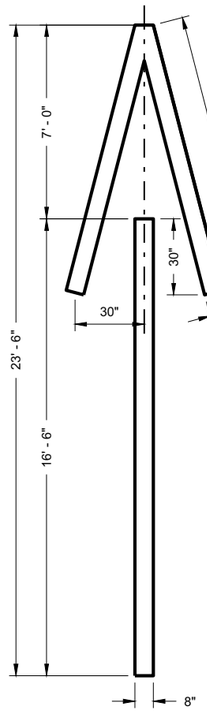
TYPE 1



TYPE 2



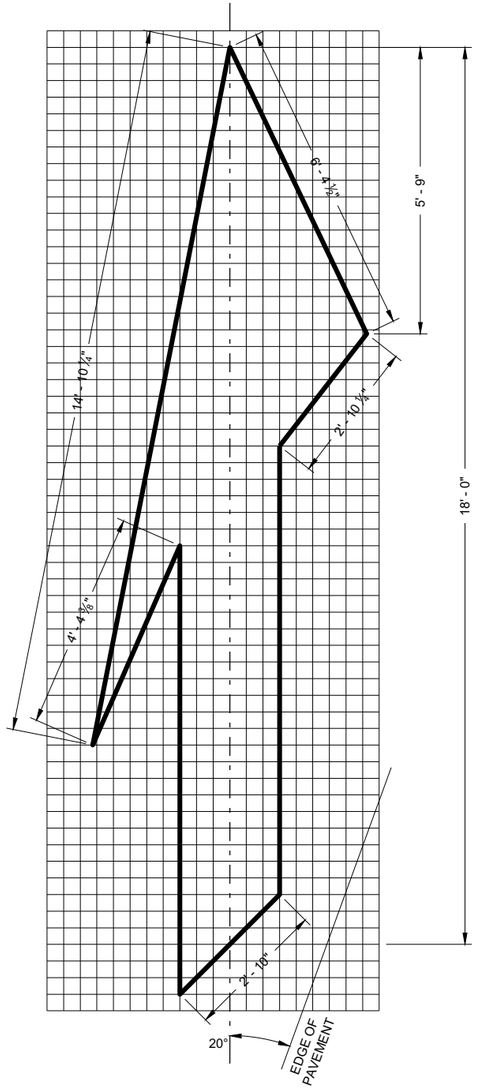
TYPE 3



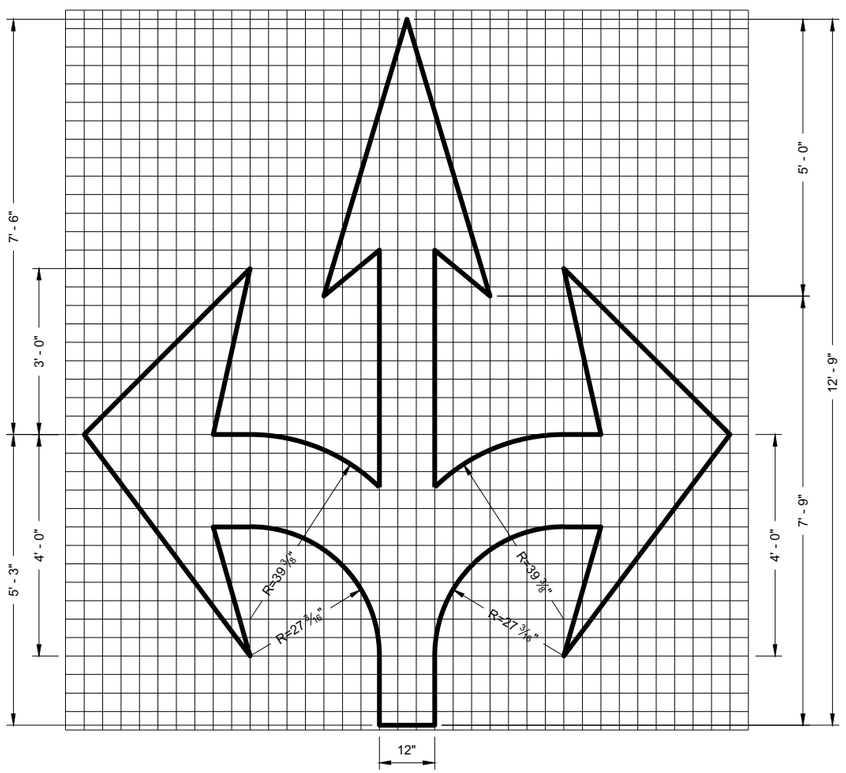
TYPE 4

GENERAL NOTES

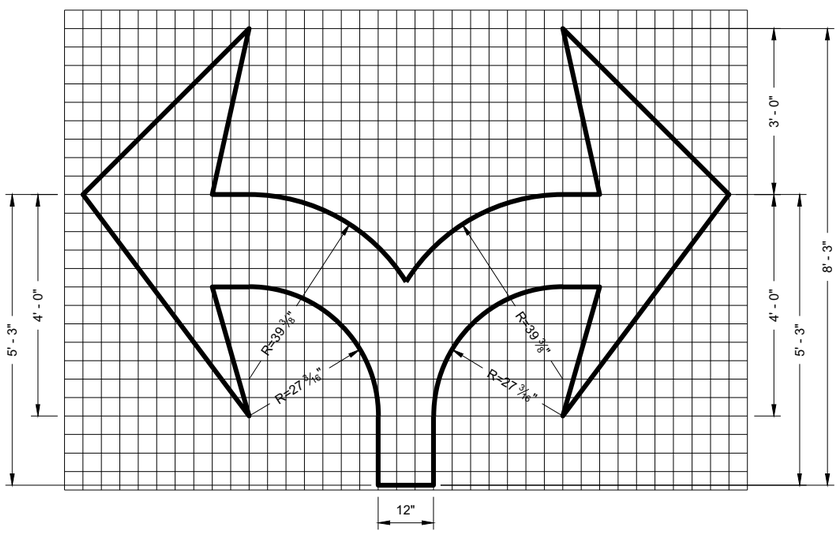
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

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/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

FHWA

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SDD 15C07 - 15c

6

SDD 15C07 - 15c

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.

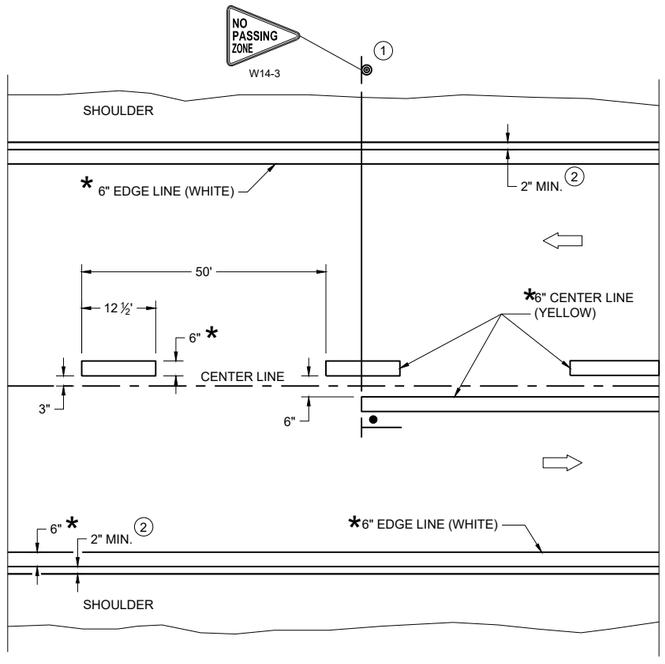
LEGEND

"T" MARKING

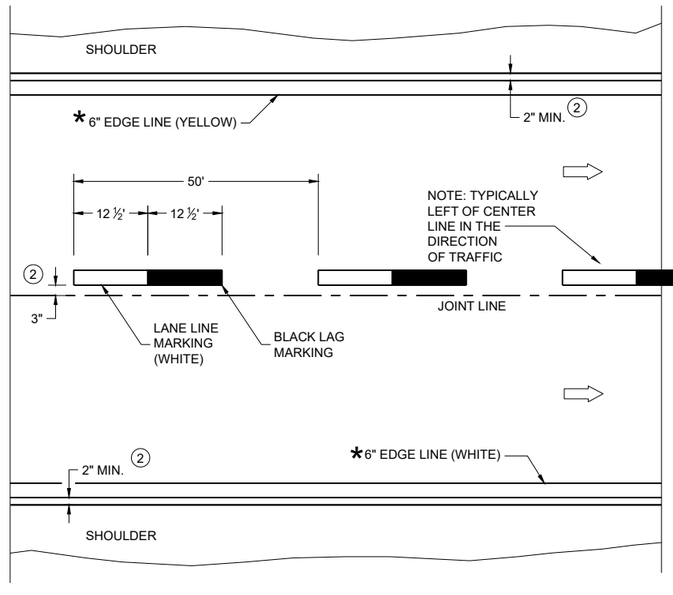
SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

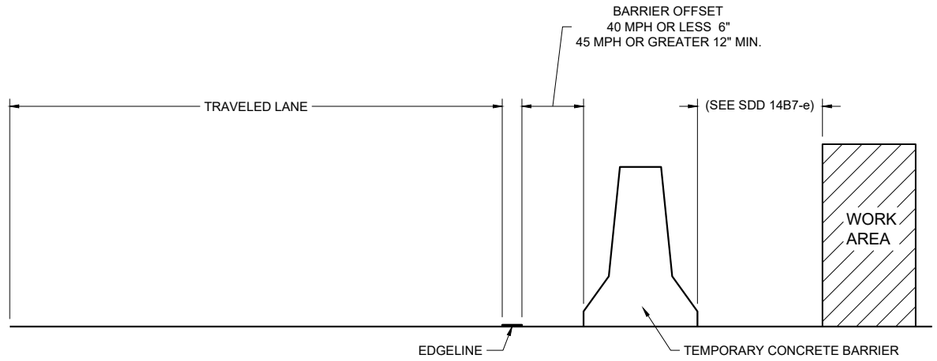
APPROVED
May 2023 — DATE
/S/ Jeannie Silver — Statewide Pavement Marking Engineer
FHWA

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SDD 15C08-23a

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SDD 15C08-23a



TEMPORARY BARRIER OFFSET FROM EDGELINE

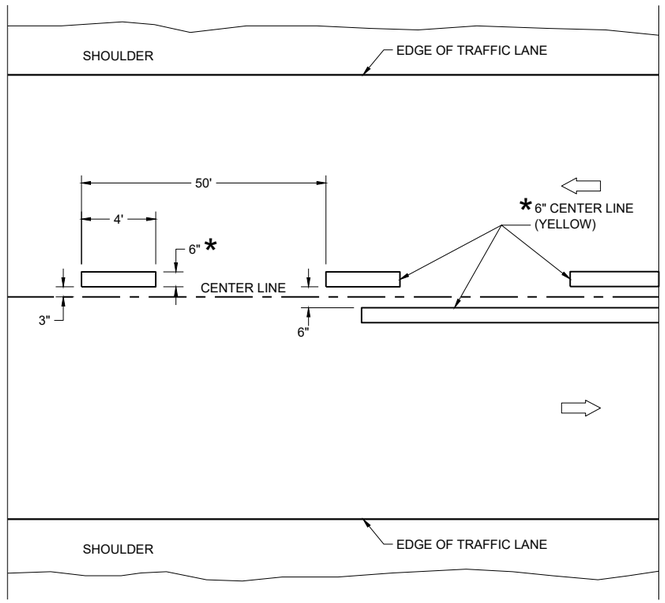
GENERAL NOTES

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

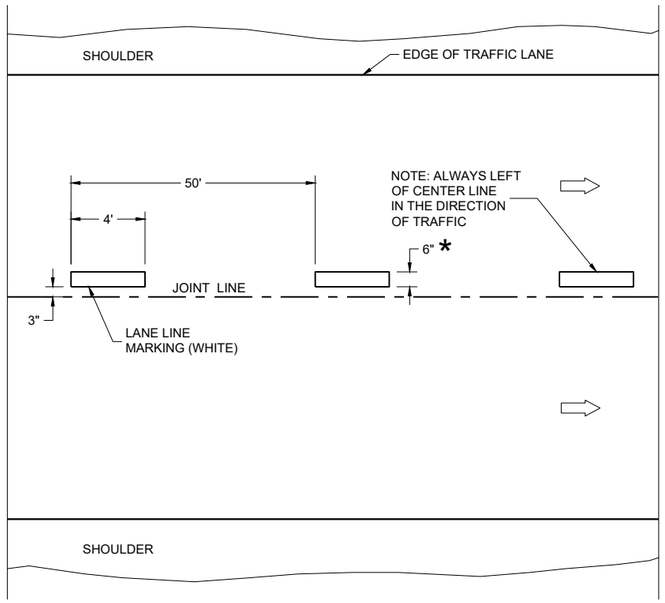
LEGEND

DIRECTION OF TRAFFIC

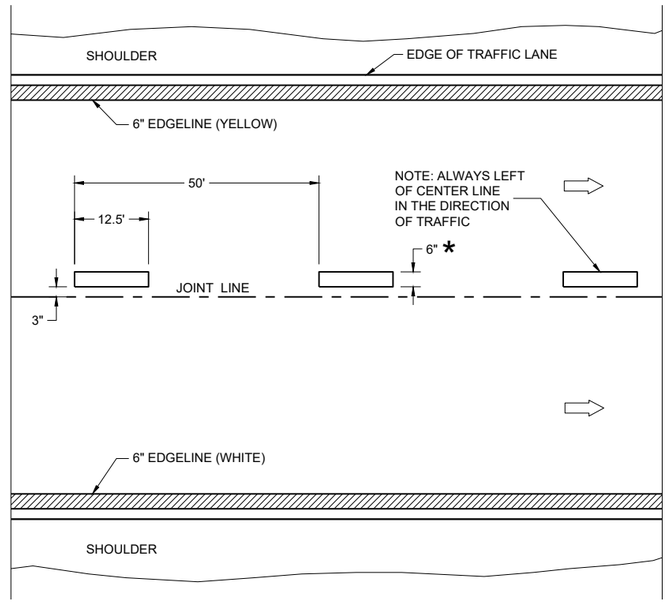
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

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SDD 15C08-23b

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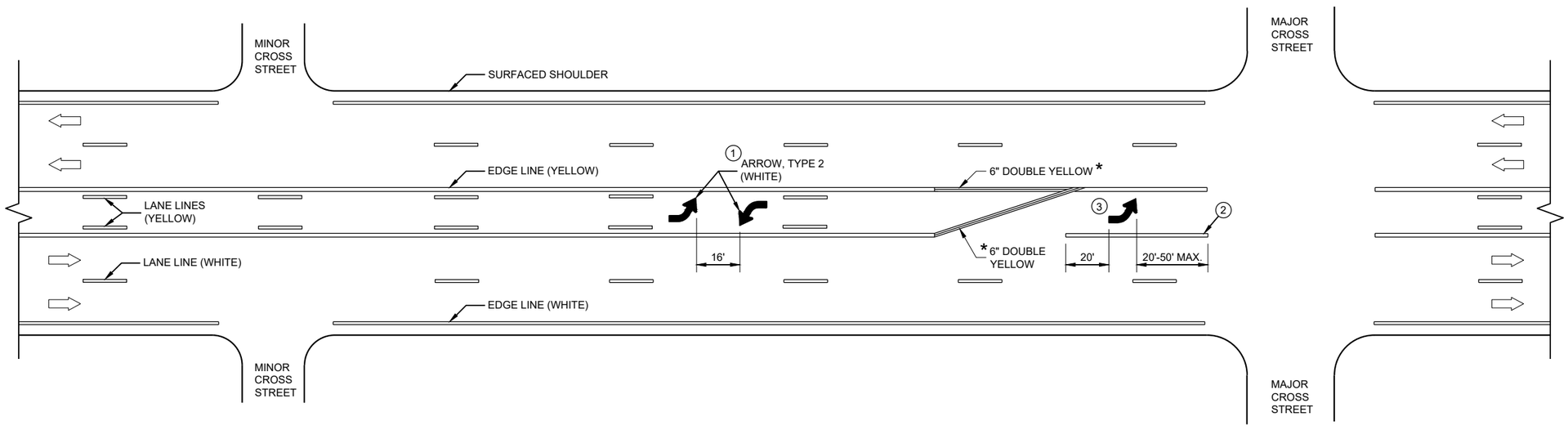
SDD 15C08-23b

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 10" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

⇨ DIRECTION OF TRAFFIC

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY LEFT TURN LANE

6

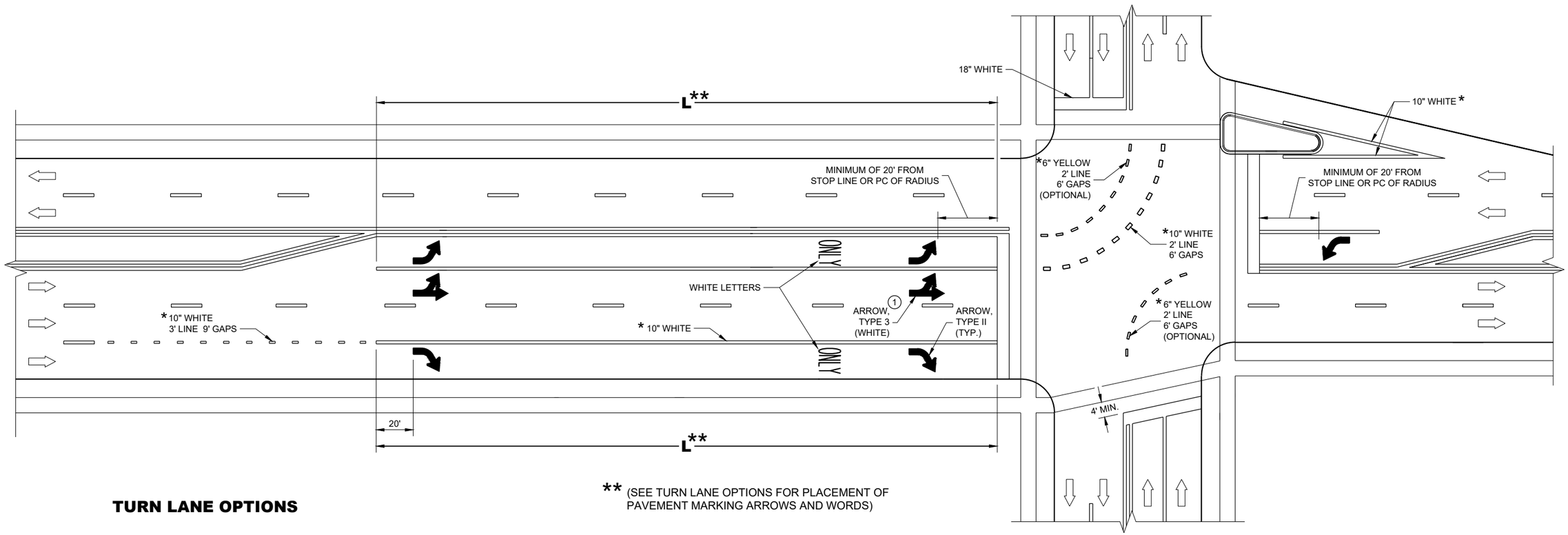
SDD 15C08-23c

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA· 177

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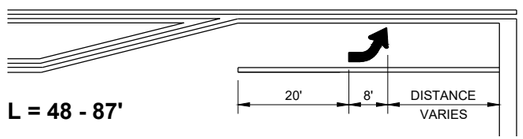
SDD 15C08-23c



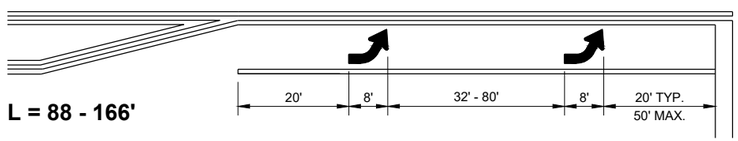
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

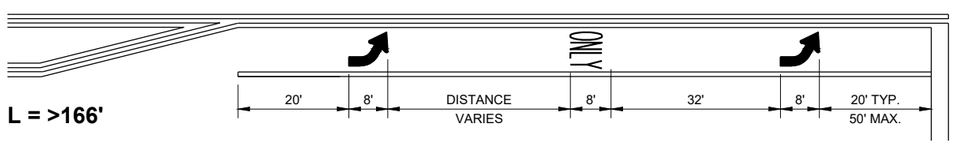
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

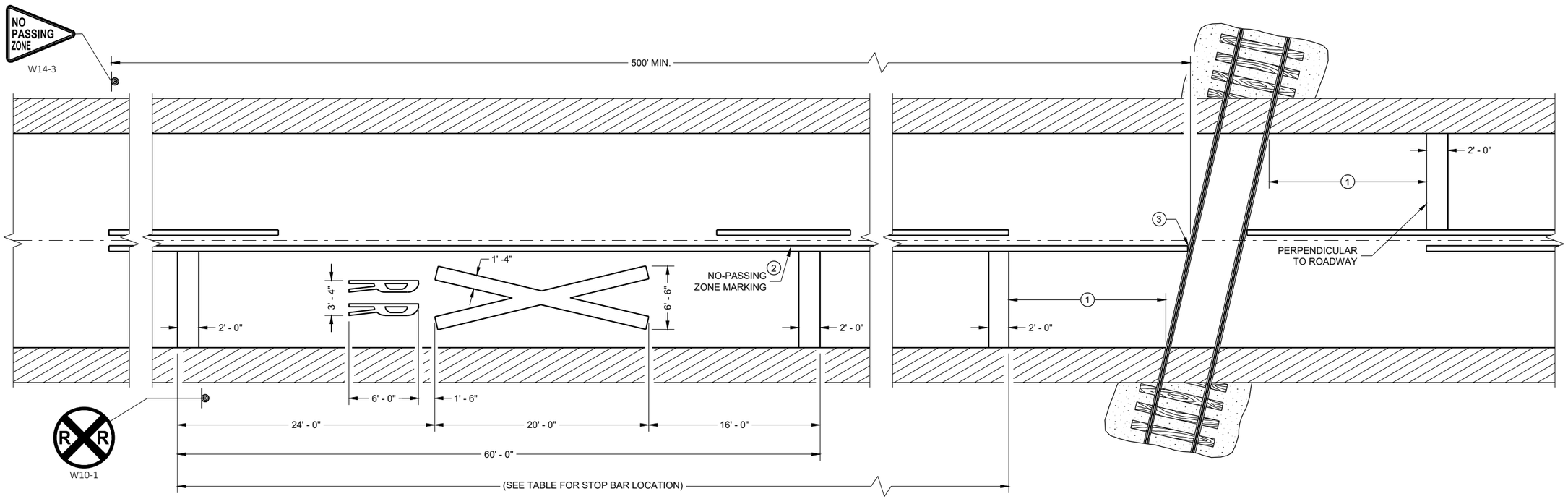
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING (TURN LANES)

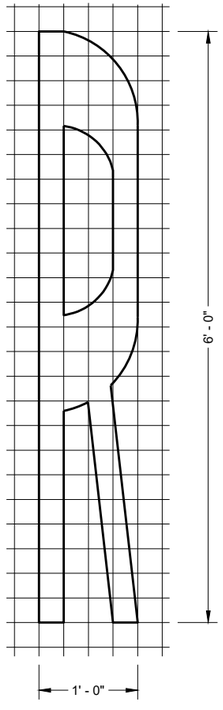
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C08-23d



PAVEMENT MARKING



LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL NOTES

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

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

TRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

(1) PLACE STOP BAR APPROXIMATELY 8 FEET IN ADVANCE OF THE GATE (IF PRESENT), BUT NO CLOSER THAN 15 FEET IN ADVANCE OF THE NEAREST RAIL. FIELD-FIT STOP BAR TO MAXIMIZE VIEW OF APPROACHING TRAIN.

(2) 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.

(3) FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

DISTANCE TABLE

TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

POSTED SPEED (M.P.H.)	DIMENSION RANGE (FEET)
25	150* - 250'
30	200* - 300'
35	250* - 450'
40	300* - 500'
45	400* - 650'
50	550* - 800'
55	750* - 1000'
60	1000* - 1250'
65	1000* - 1250'

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSED PROXIMITY OF DRIVEWAYS, BRIDGES, SIDE ROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.

SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023
DATE

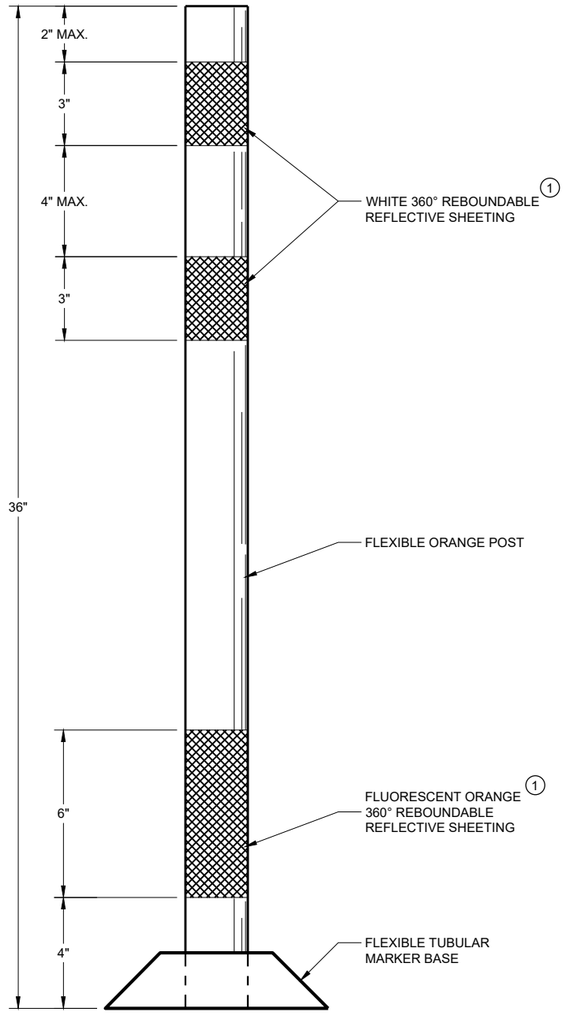
/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

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SDD 15C09-13a

SDD 15C09-13a



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

6

SDD 15C11 - 10a

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

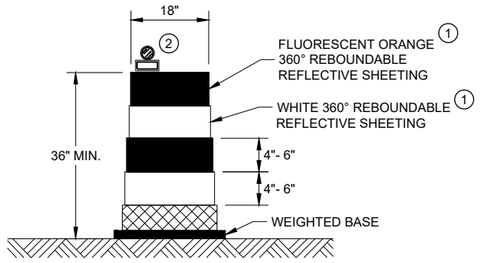
FHWA

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SDD 15C11 - 10a

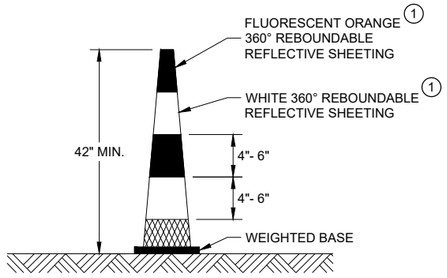
GENERAL NOTES

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.



DRUM

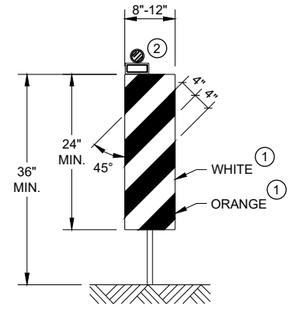
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

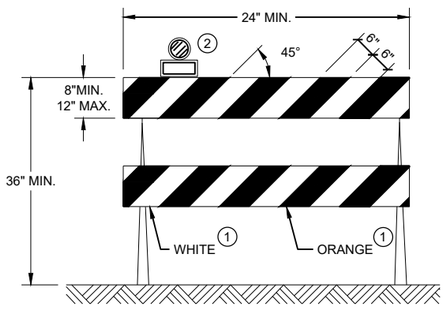
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



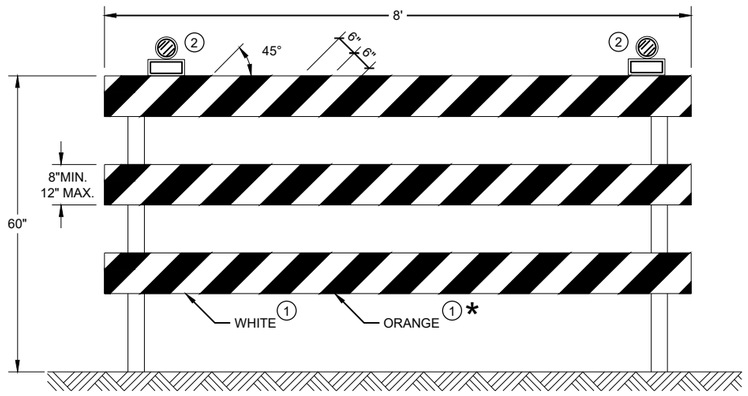
VERTICAL PANEL

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

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C11 - 10b

6

SDD 15C11 - 10b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

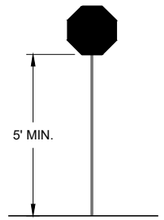
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



STOP/SLOW PADDLE ON SUPPORT STAFF

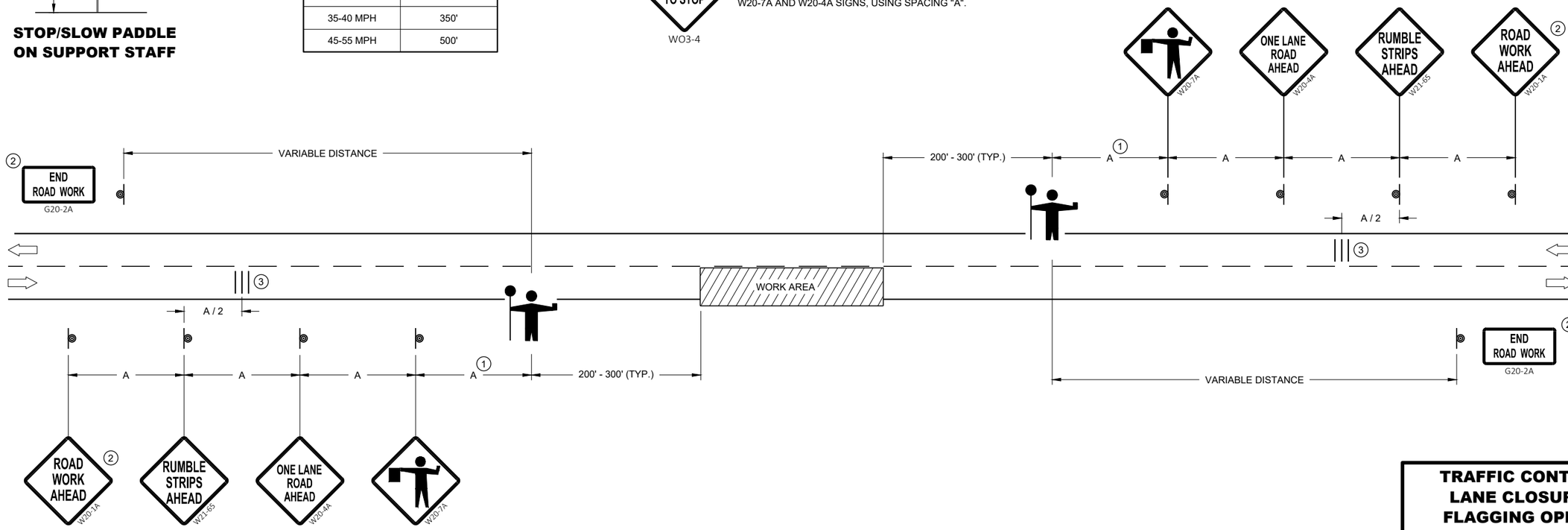
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

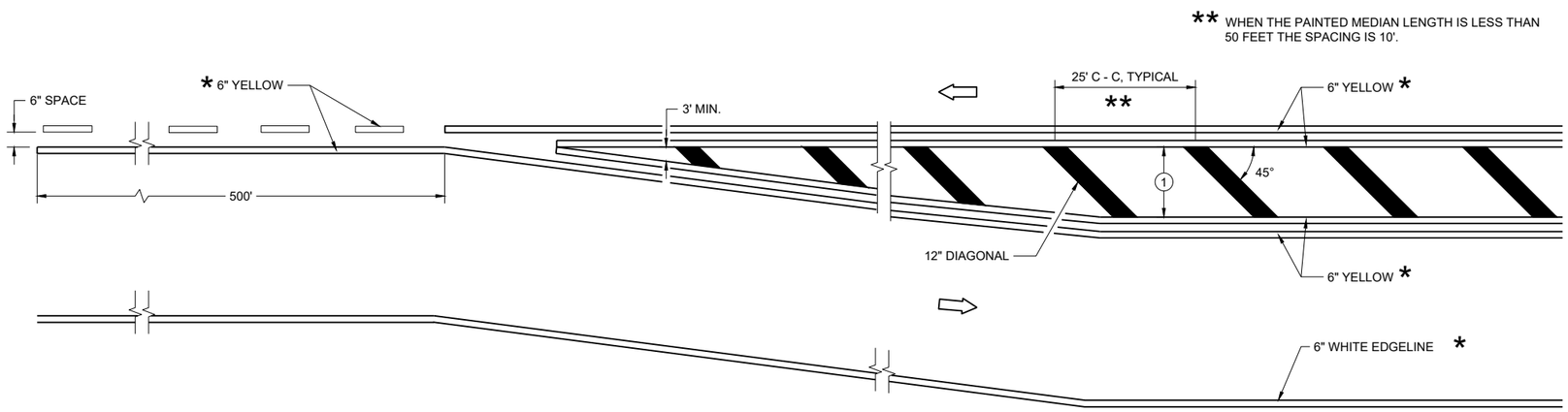
FHWA

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SDD 15C12 - 09a

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SDD 15C12 - 09a



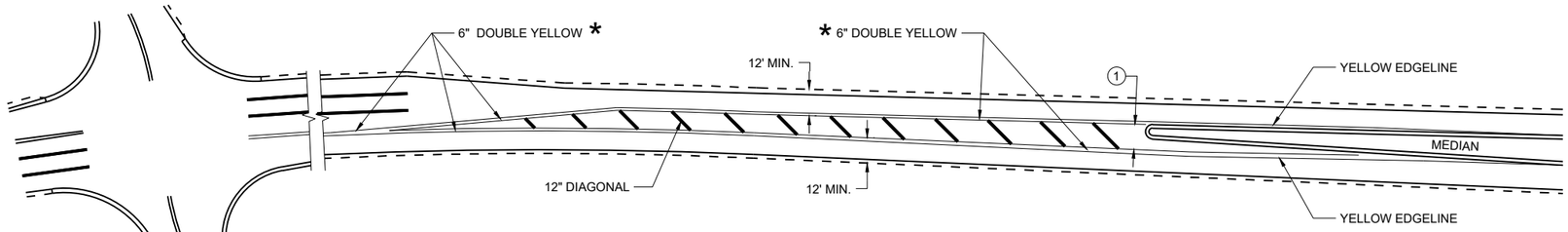
MEDIAN ISLAND DETAIL

GENERAL NOTES

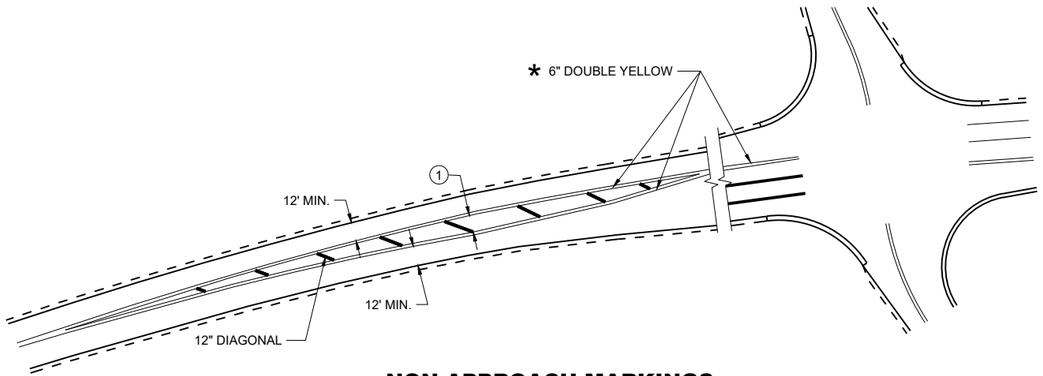
(1) DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

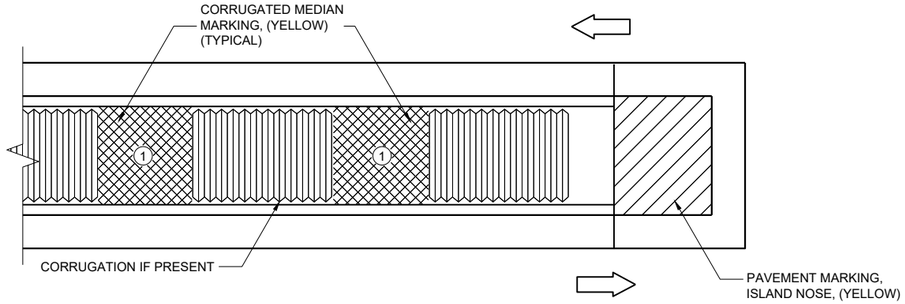
/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

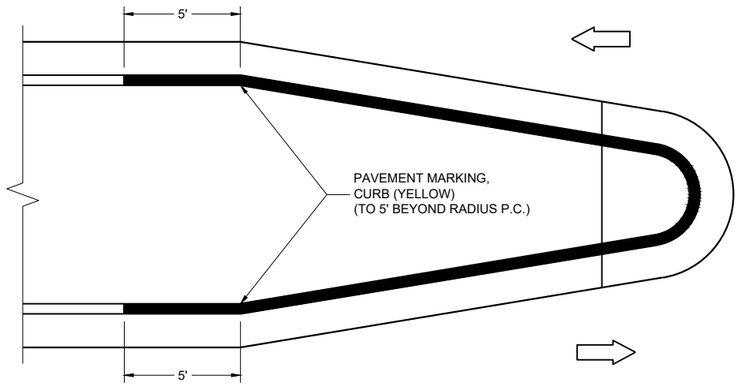
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SDD 15C18-09a

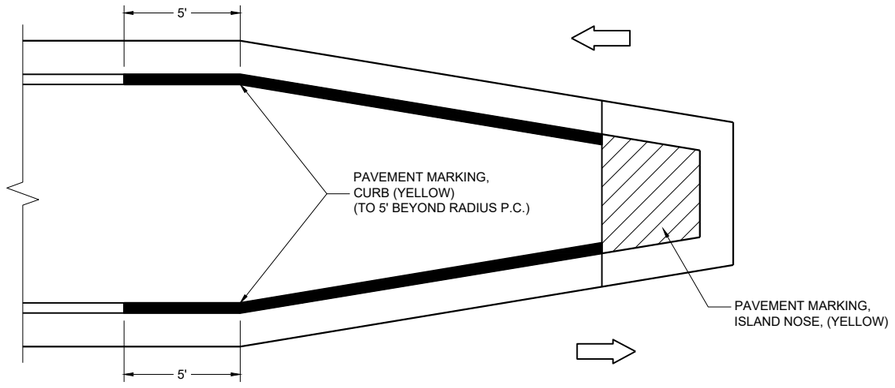
SDD 15C18-09a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

**TYPICAL PLACEMENT OF
PAVEMENT MARKING ON MEDIAN ISLANDS**

GENERAL NOTES

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

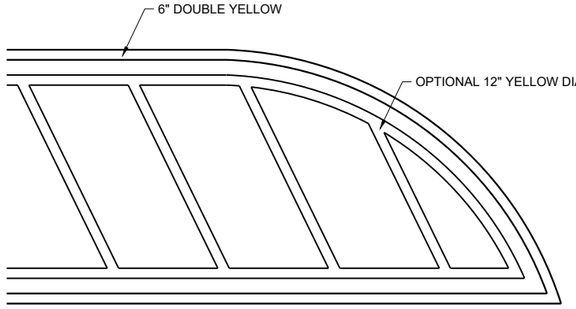
(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL



FLUSH MEDIAN ISLAND NOSE

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (MERGE)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

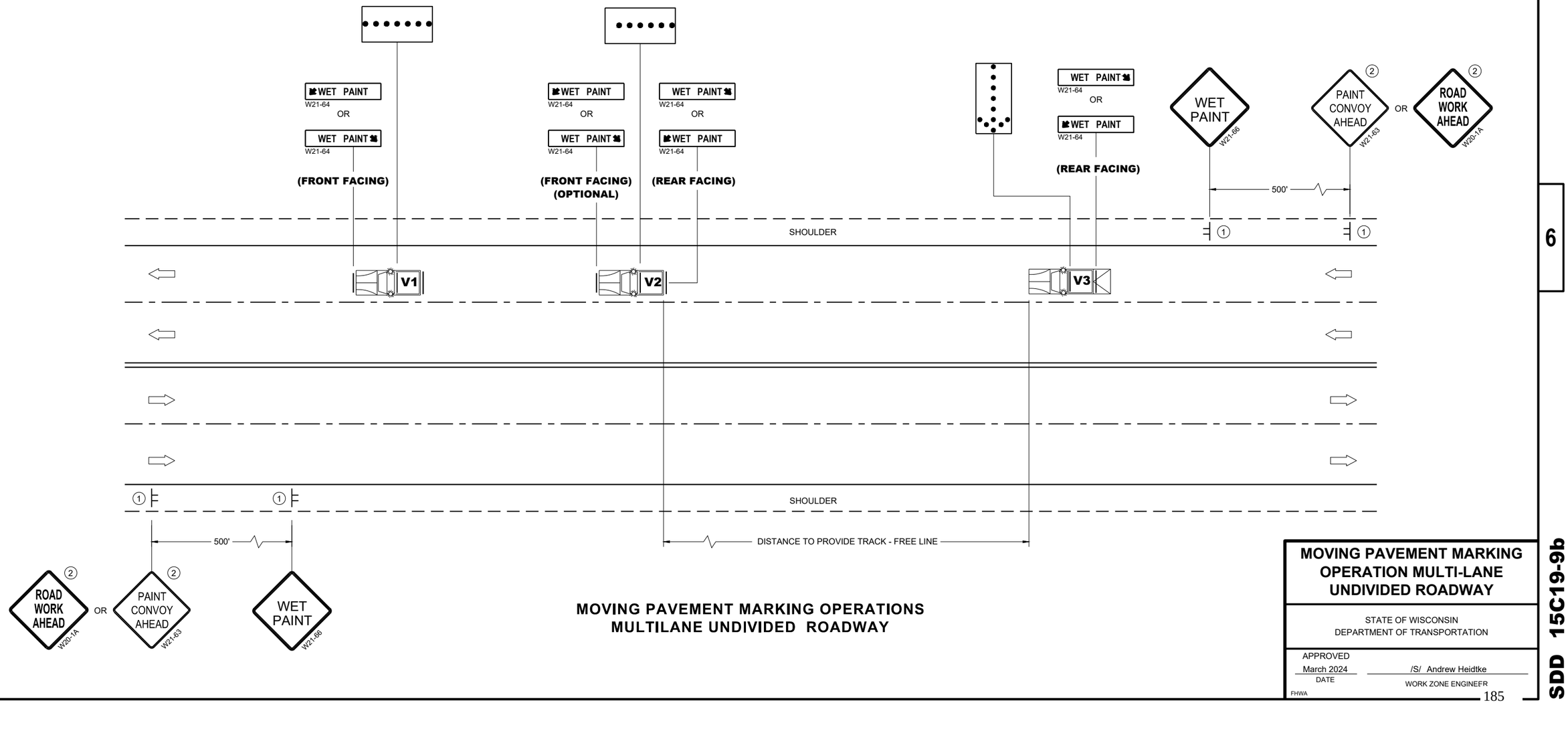
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLES AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL HAVE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS.

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY MAJOR INTERSECTION.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS MULTILANE UNDIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEFR

FHWA

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SDD 15C19-9b

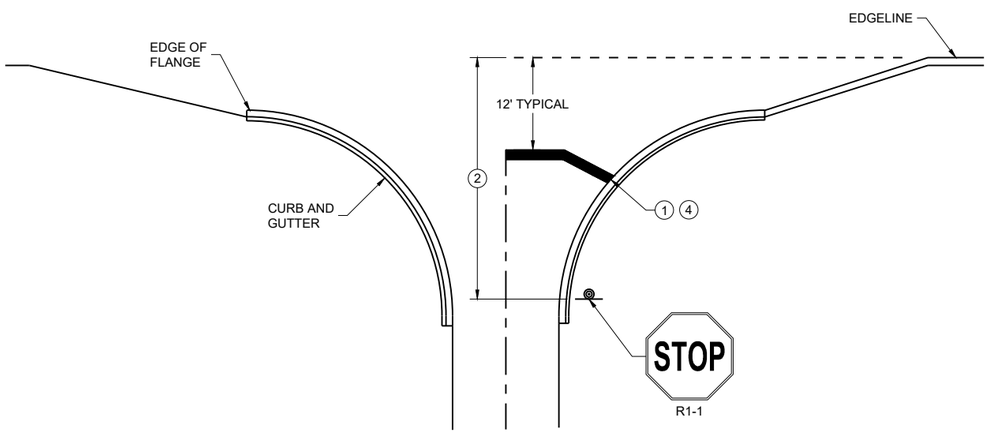
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SDD 15C19-9b

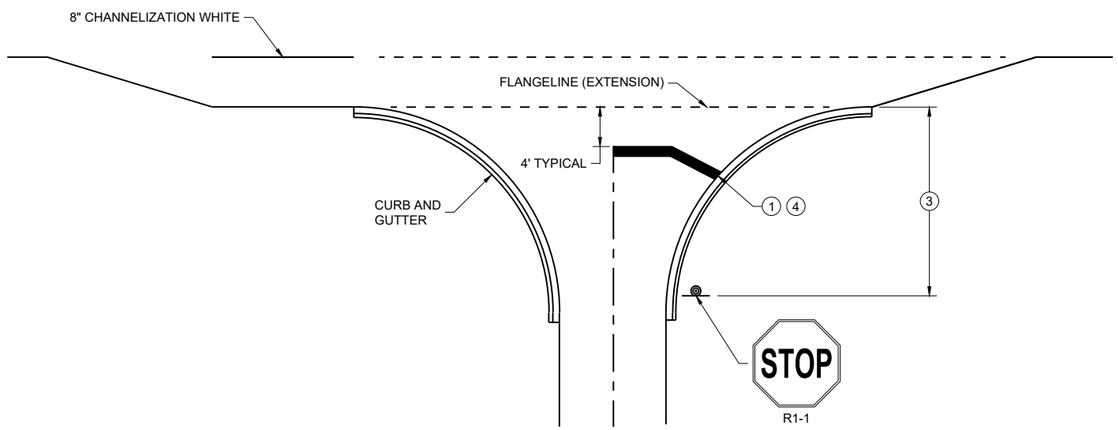
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

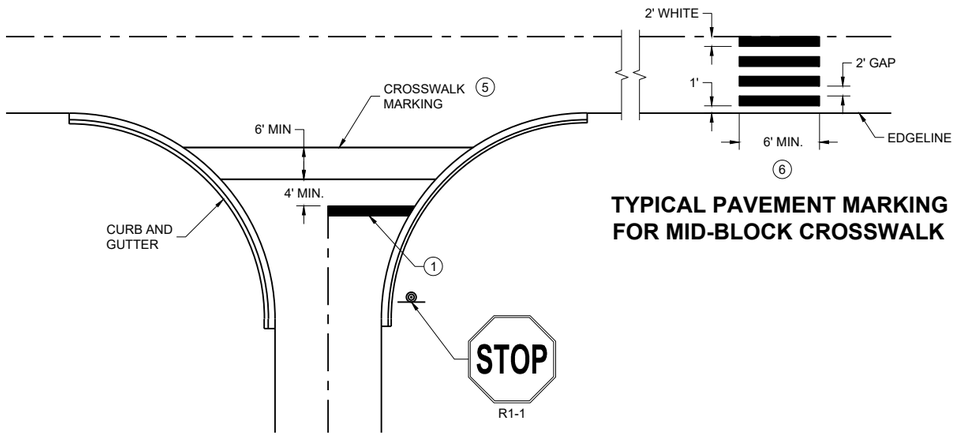
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES.
6. POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

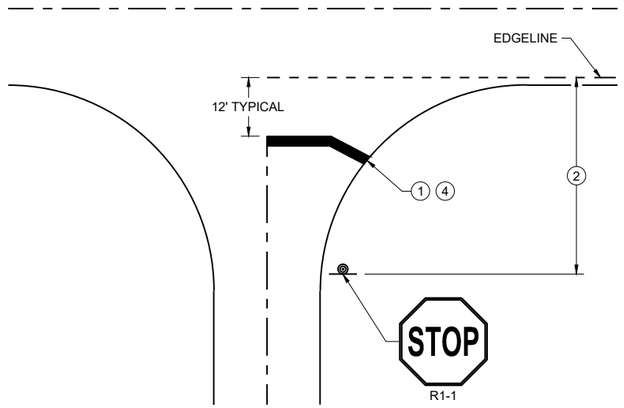


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK (5)

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

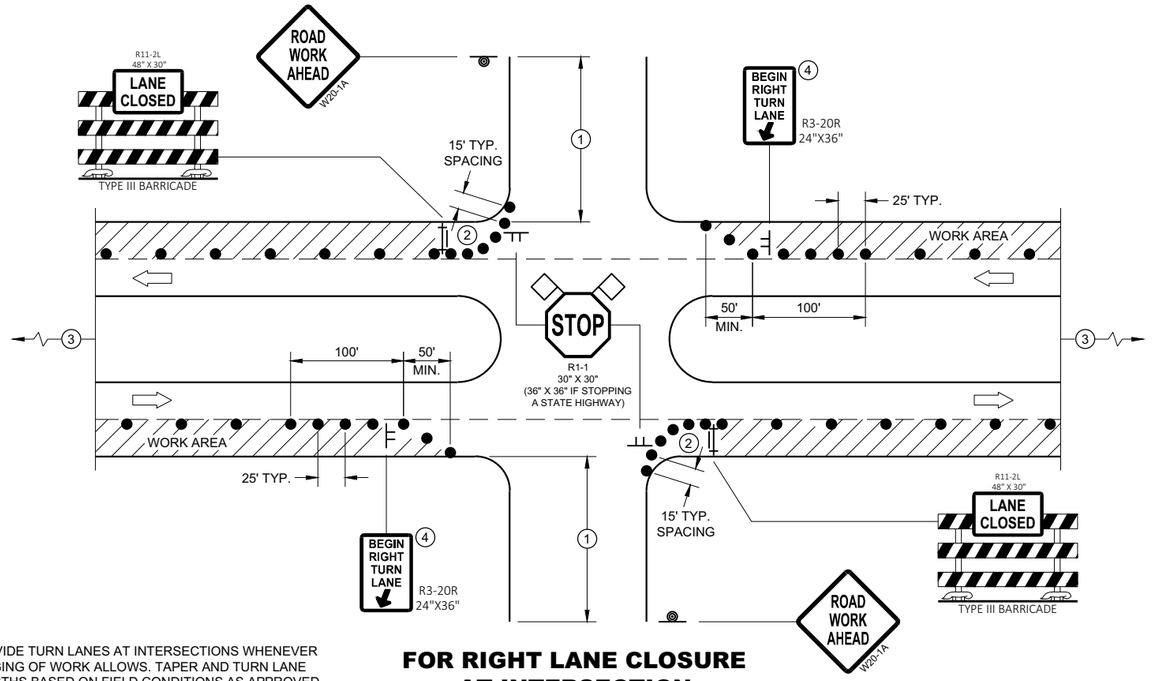
STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

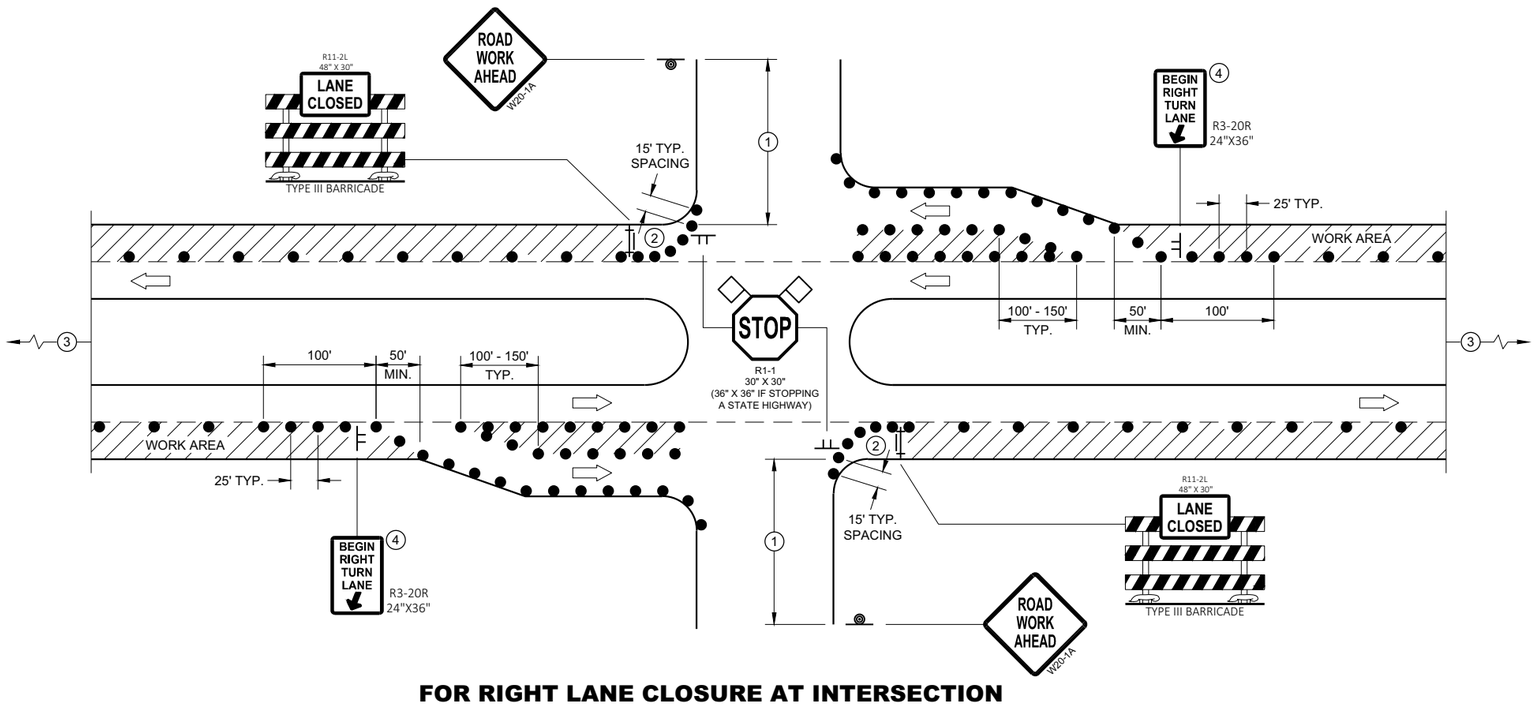
FHWA

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SDD 15C33-05



FOR RIGHT LANE CLOSURE AT INTERSECTION

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

GENERAL NOTES

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

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

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

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

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

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

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

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

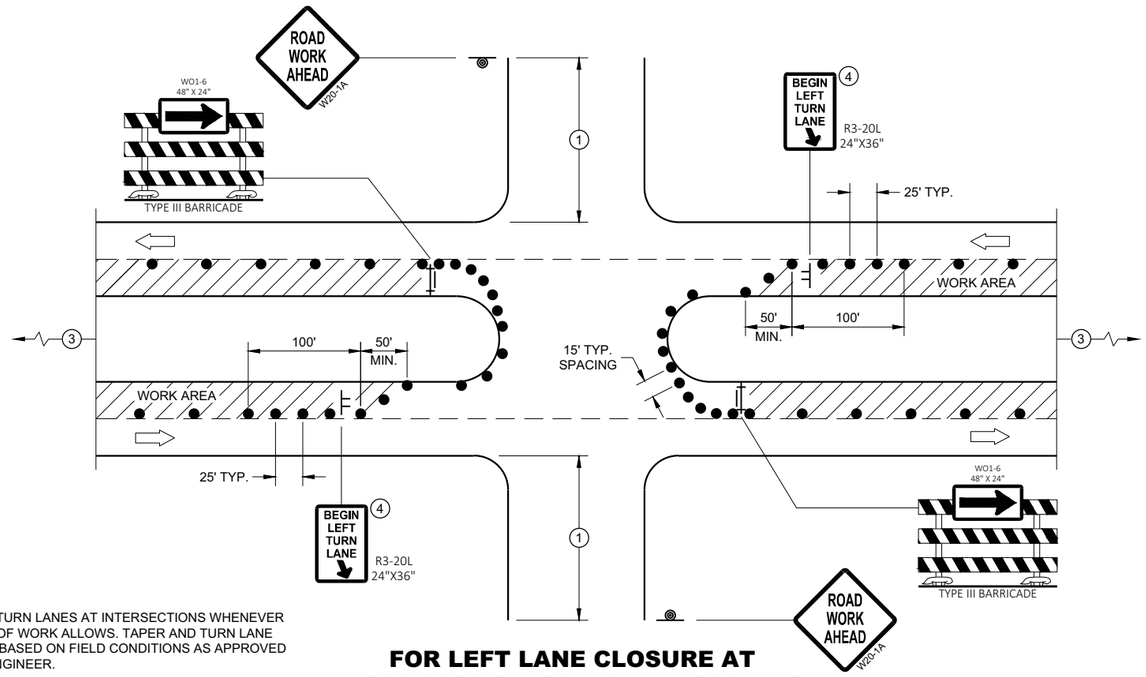
(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

GENERAL NOTES

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

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

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

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

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

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

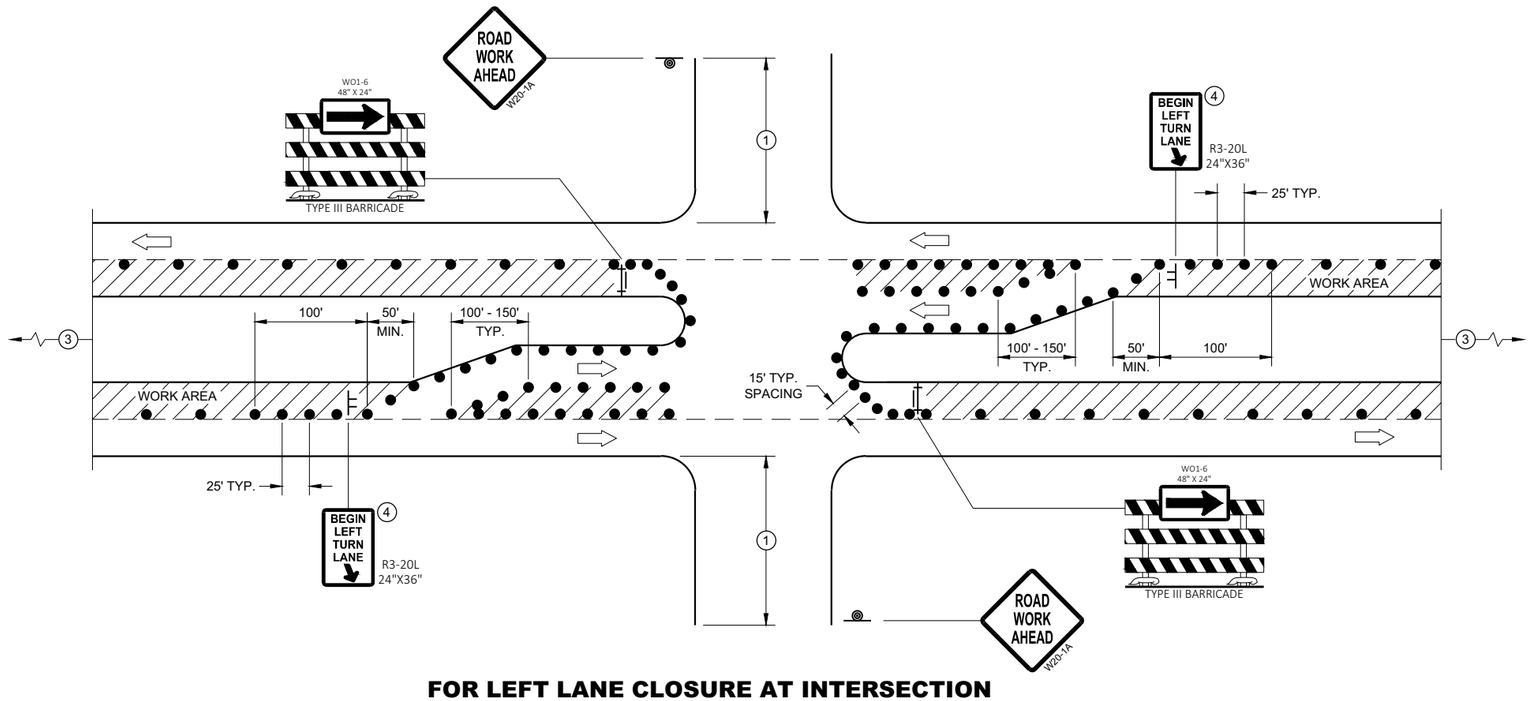
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

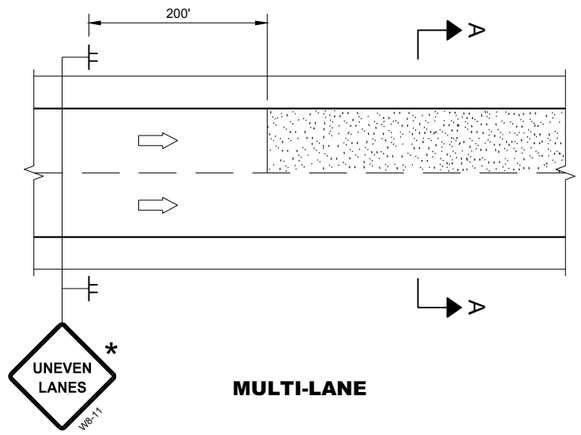
FHWA

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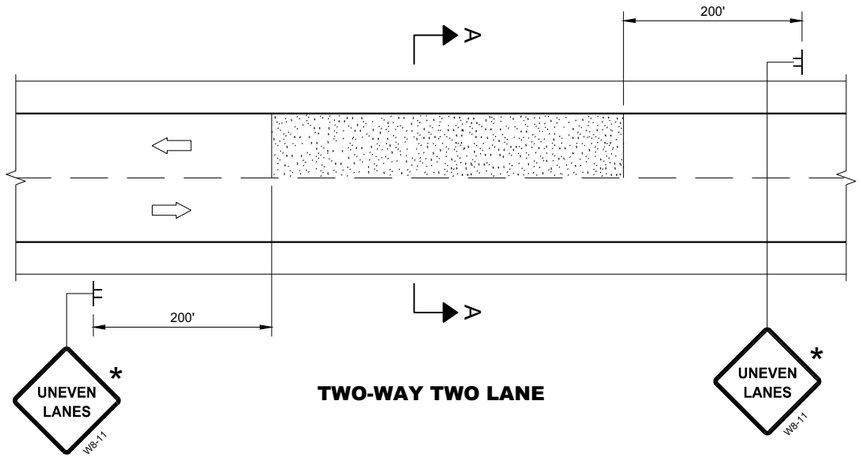
SDD 15D21 - 07b

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SDD 15D21 - 07b



MULTI-LANE



TWO-WAY TWO LANE

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

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

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

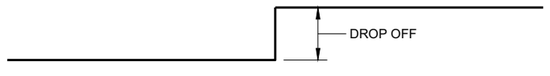
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

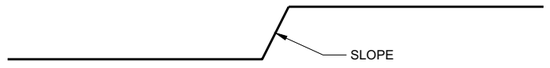
LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE

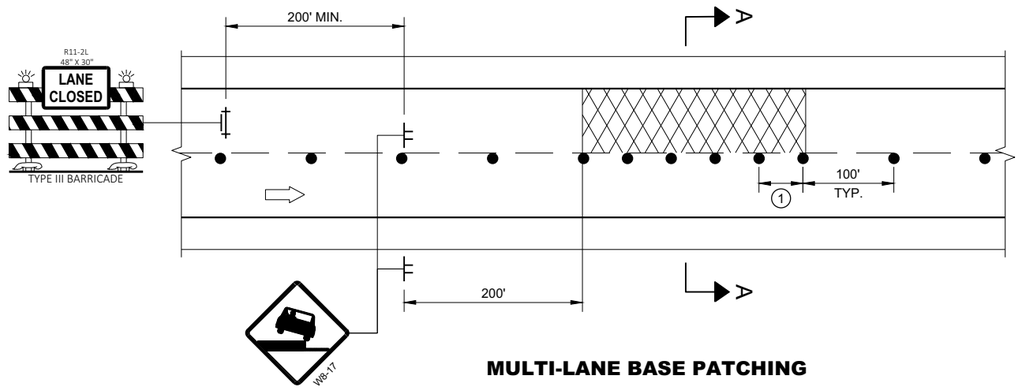


SECTION A - A

OR

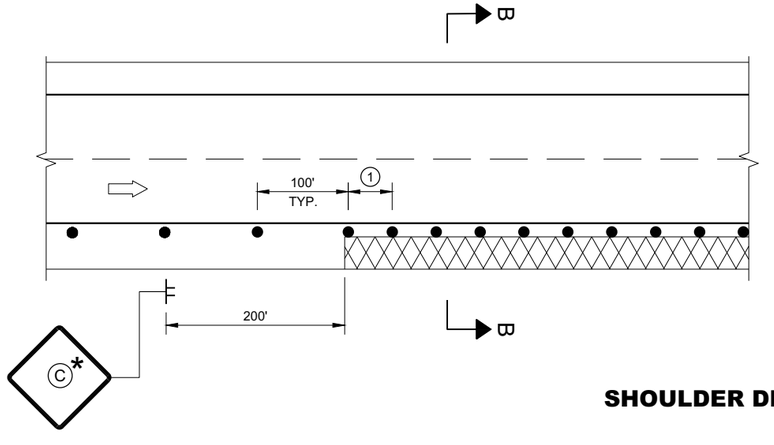


SECTION A - A

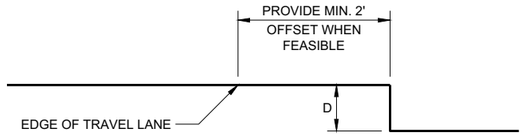


MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D39 - 02

6

SDD 15D39 - 02

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					BUFFER SPACE (B) FEET
		10	11	12	13	14	
25	200	52	57	63	68	73	55
30	200	75	83	90	98	105	85
35	350	102	112	123	133	143	120
40	350	133	147	160	173	187	170
45	500	225	248	270	293	315	220

GENERAL NOTES

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

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

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

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

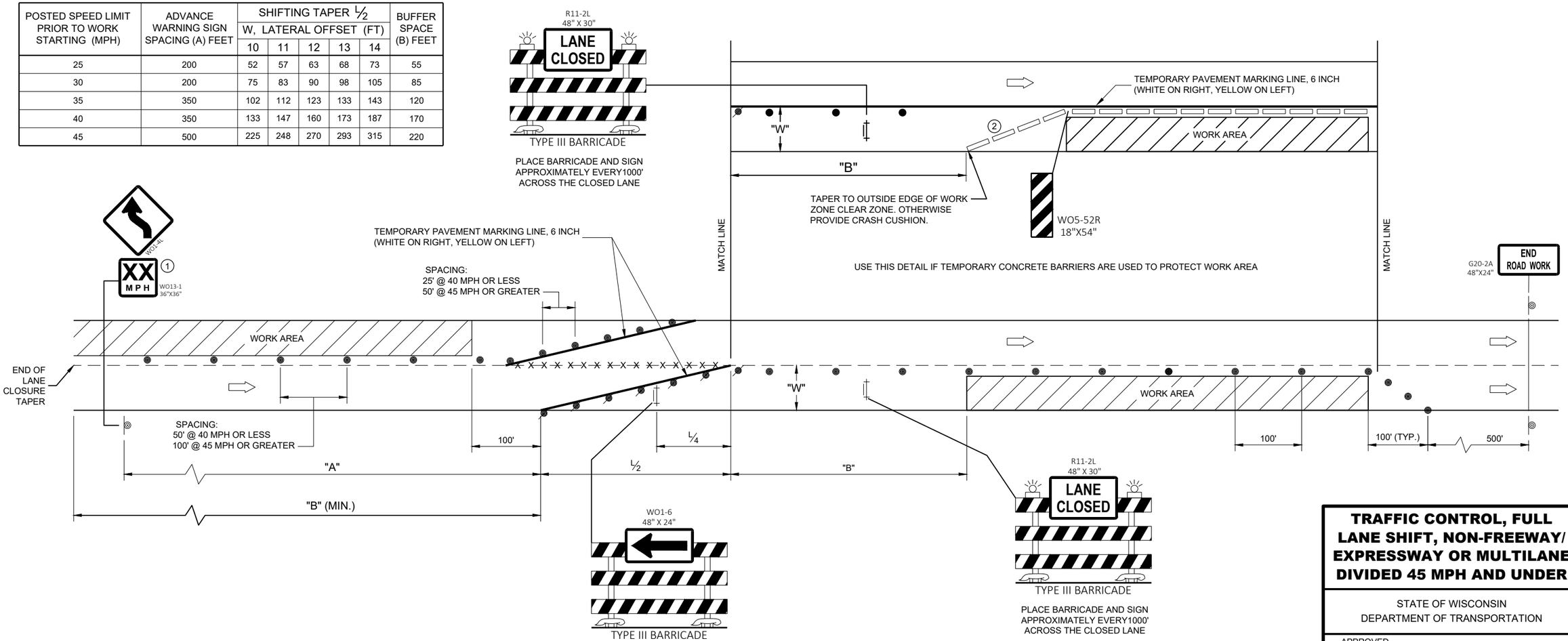
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER
SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL
CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(2) BARRIER FLARE RATE: 6:1 @ 40 MPH OR LESS
8:1 @ 45 MPH OR GREATER



TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D40-05a

6

SDD 15D40-05a

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

GENERAL NOTES

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

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

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

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

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

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

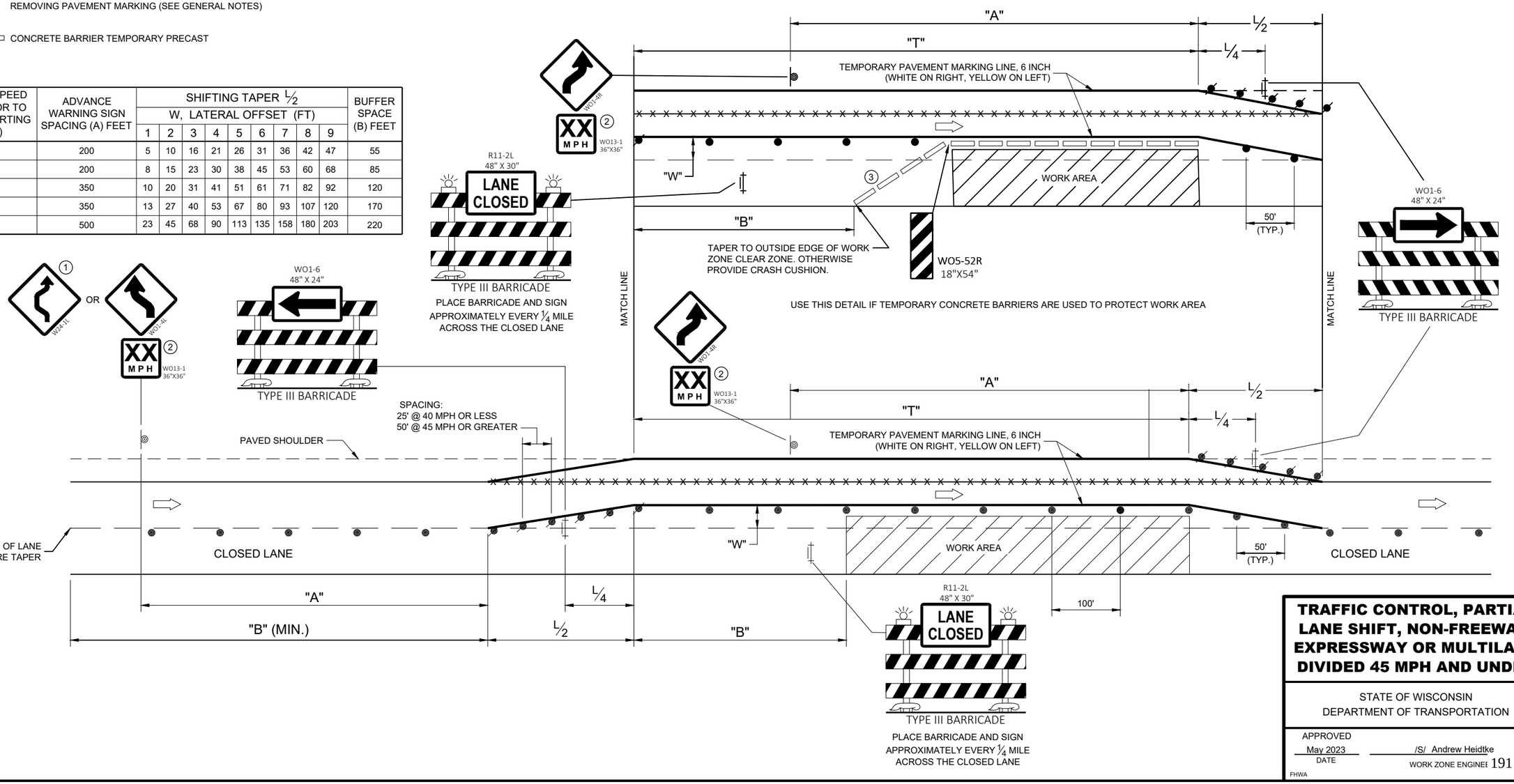
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY WHEN T<600', OMIT WO1-4R.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(3) BARRIER FLARE RATE: 6:1 @ 40 MPH OR LESS
8:1 @ 45 MPH OR GREATER

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)									BUFFER SPACE (B) FEET
		1	2	3	4	5	6	7	8	9	
25	200	5	10	16	21	26	31	36	42	47	55
30	200	8	15	23	30	38	45	53	60	68	85
35	350	10	20	31	41	51	61	71	82	92	120
40	350	13	27	40	53	67	80	93	107	120	170
45	500	23	45	68	90	113	135	158	180	203	220



TRAFFIC CONTROL, PARTIAL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15D40-05c

6

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

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

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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

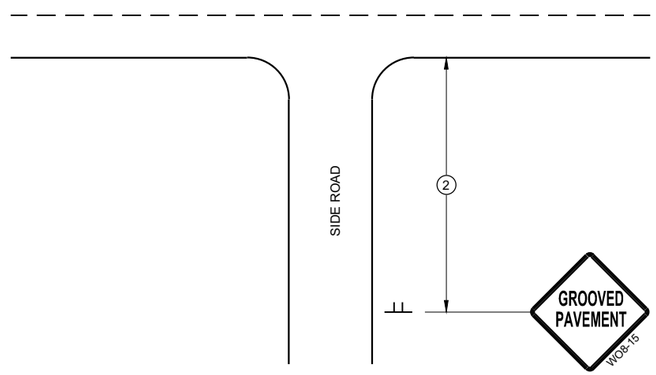
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

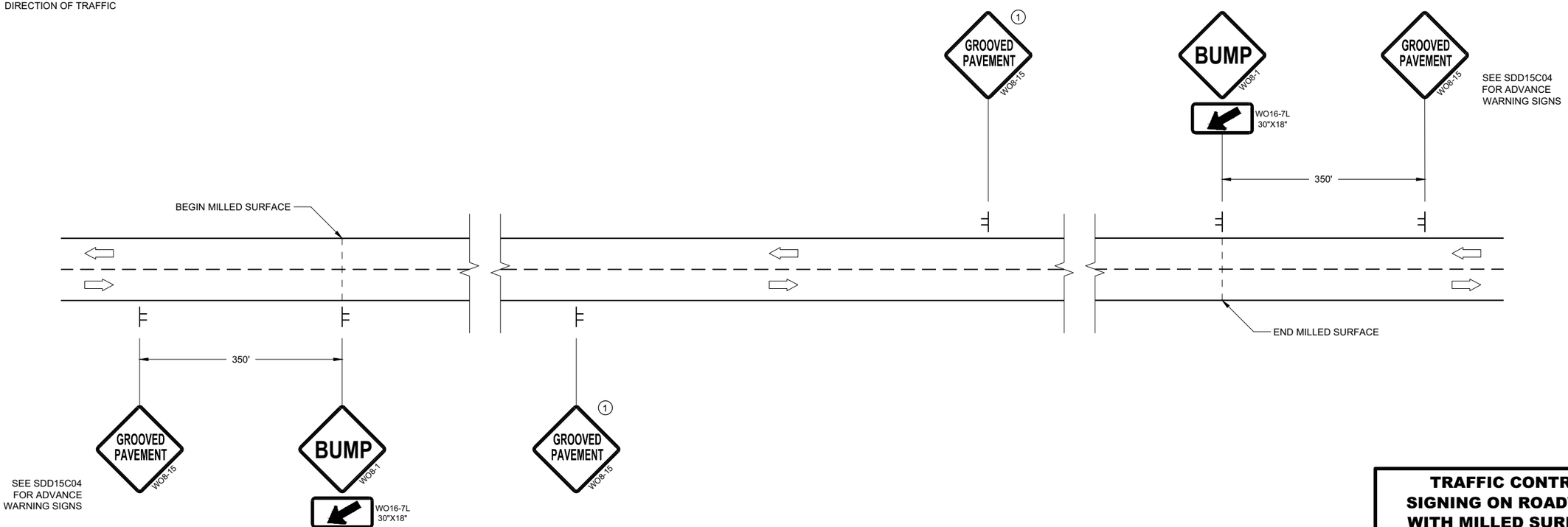
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15D44 - 02

SDD 15D44 - 02

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					
		3	4	5	6	7	8
25	200	10	14	17	21	24	28
30	200	15	20	25	30	35	40
35	350	20	27	34	40	47	54
40	350	26	35	44	53	62	70
45	500	45	59	74	89	104	119
50	500	50	66	83	99	116	132
55	500	54	73	91	109	127	145

GENERAL NOTES

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

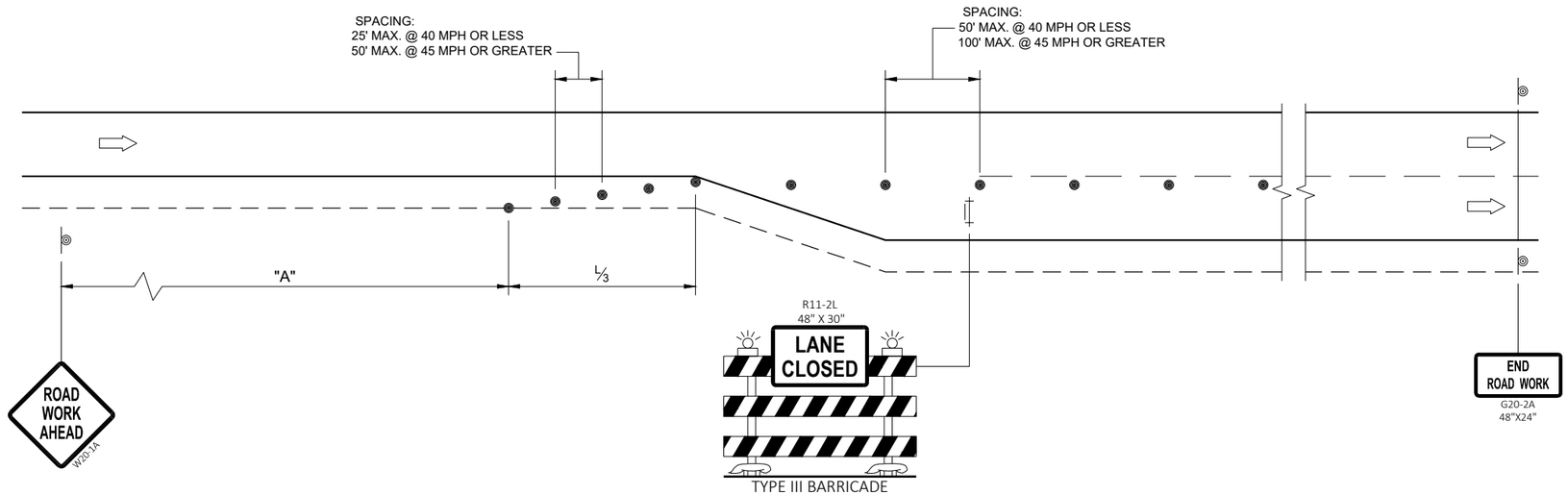
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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

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

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

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.



PLACE BARRICADE AND SIGN APPROXIMATELY EVERY 1000' ACROSS THE CLOSED LANE

TRAFFIC CONTROL
ADDED LANE CLOSURE
WITHOUT LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D50-03a

6

SDD 15D50-03a

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER (L/2) FEET
25	200	60
30	200	90
35	350	120
40	350	160
45	500	270
50	500	300
55	500	330

GENERAL NOTES

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

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

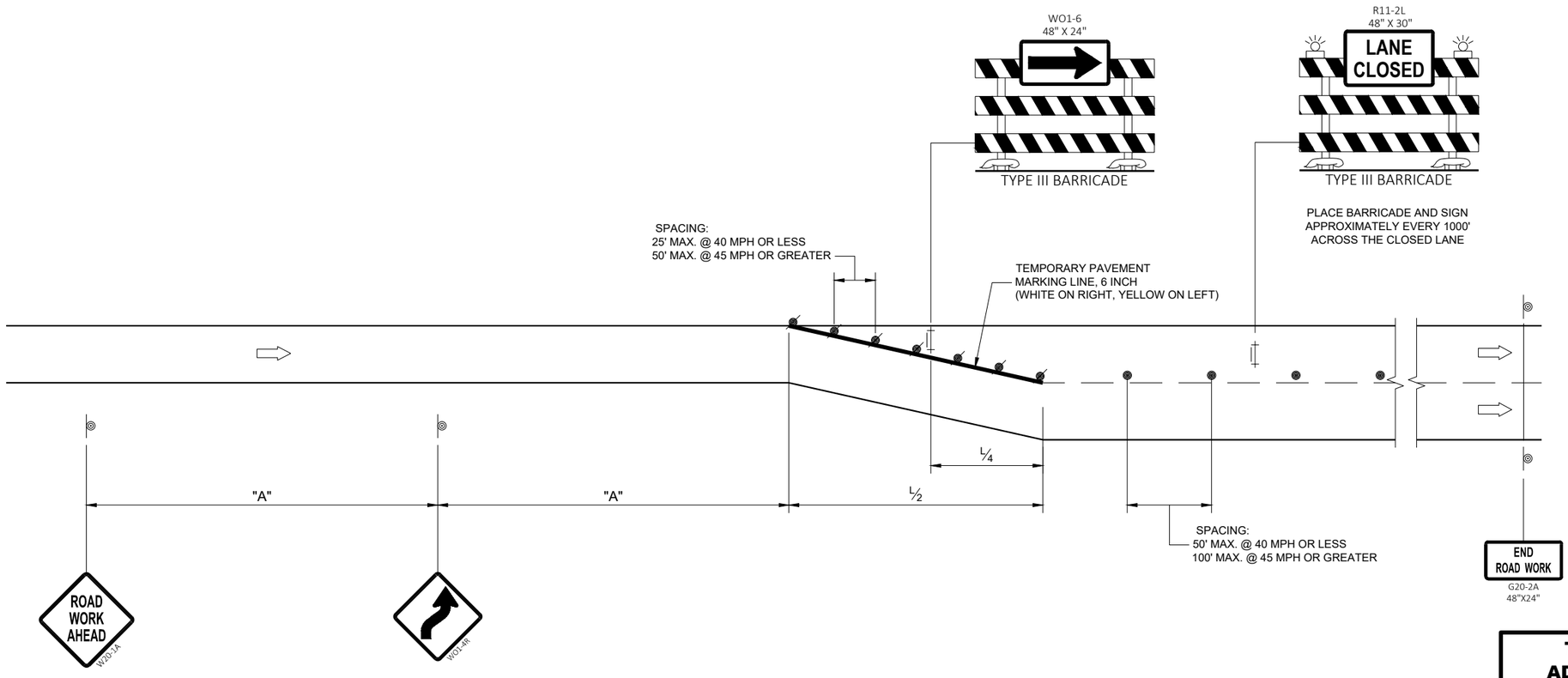
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

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

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.

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



TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

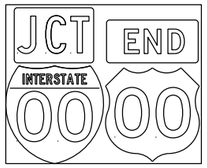
APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6
SDD 15D50-03b

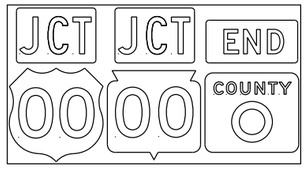
TYPICAL ASSEMBLIES



J1-1



J1-2



J1-3



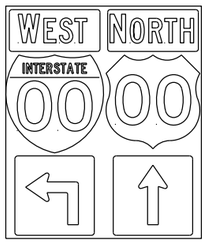
JR1-1



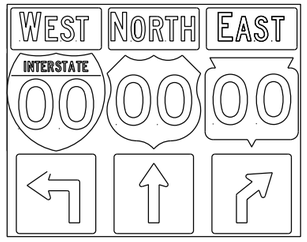
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



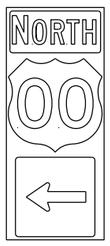
J2-1



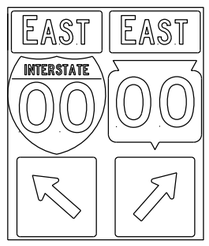
J2-2



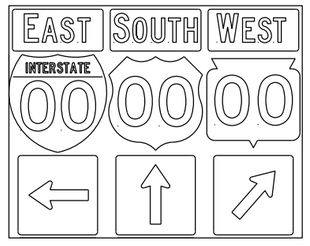
J2-3



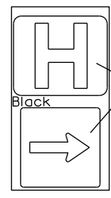
J3-1



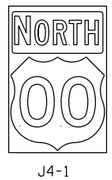
J3-2



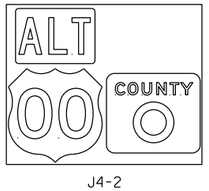
J3-3



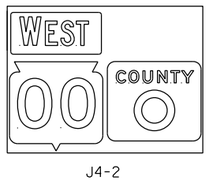
JH-1



J4-1



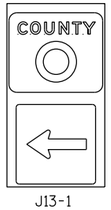
J4-2



J4-2



J12-1



J13-1



J32-1



J33-1



J22-1



J23-1



JR13-1



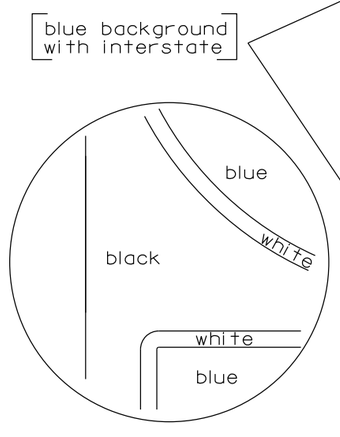
JR23-1

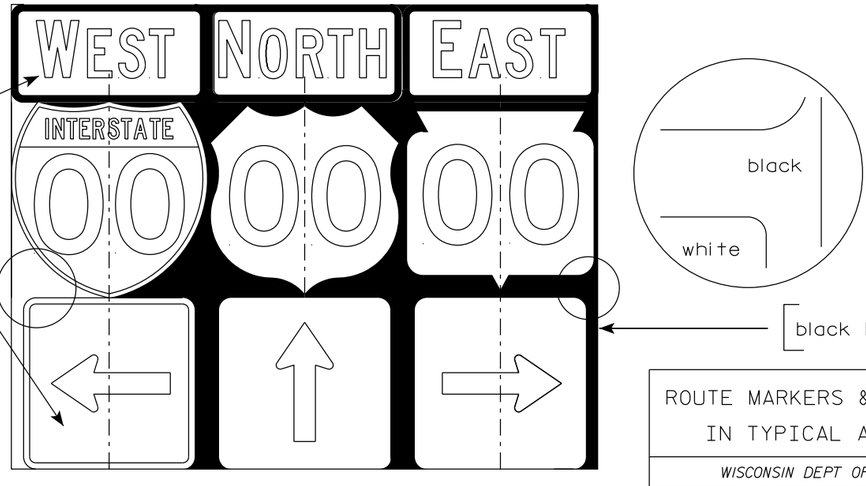


JR99-1

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 4
3. Message Series - See Note 4
4. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
5. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
6. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
7. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
8. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. All Vertical J Assemblies are given a Sign Code of JV
10. For JV Assemblies that have a mixture of Interstate and Non-Interstate shields, arrows and cardinals shall be white on blue.
11. For JV Assemblies that have a mixture of Non-Interstate and Auto-Tour shields, arrows and cardinals shall be black on white.





ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

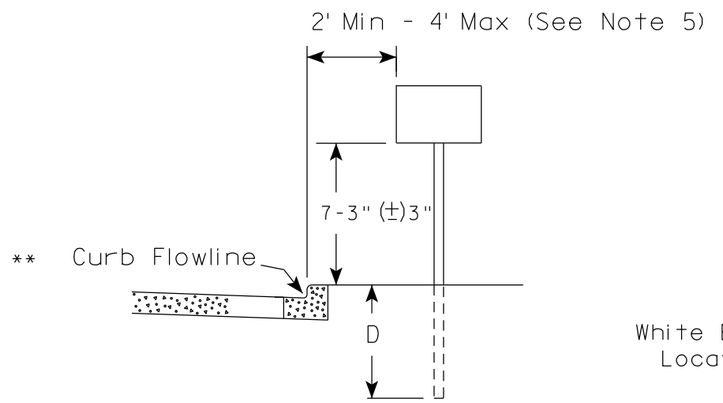
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/23 PLATE NO. A2-1S.10

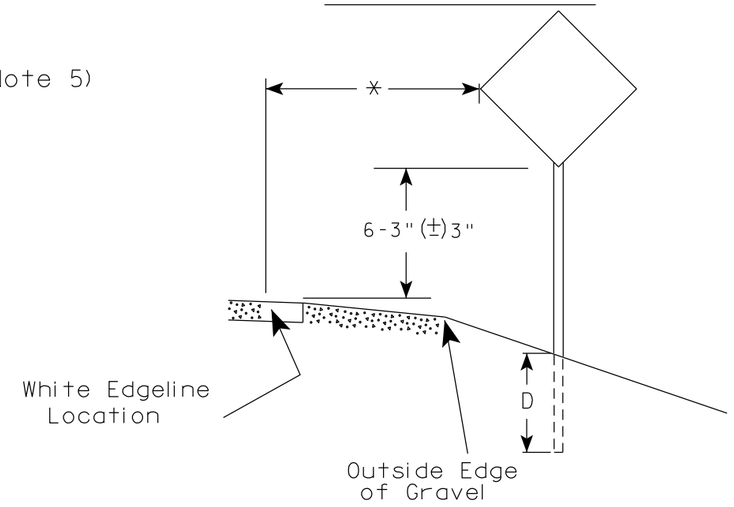
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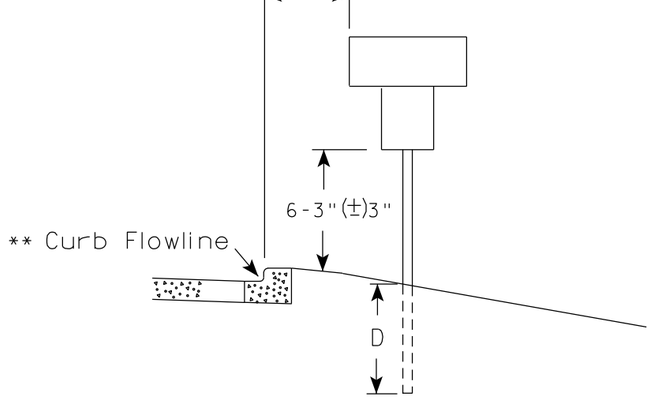
SHEET NO: 195 E

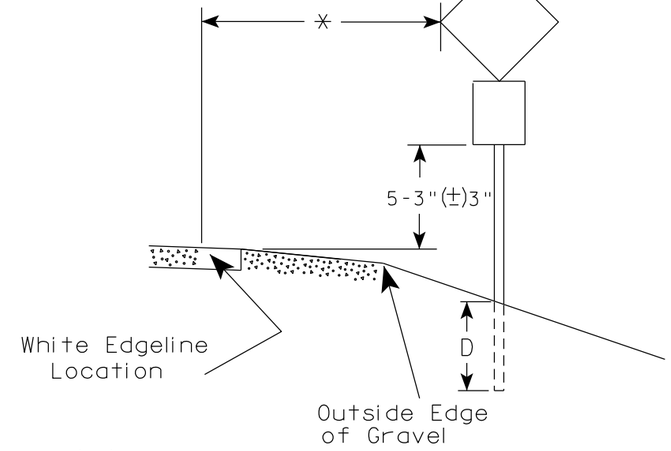
URBAN AREA



RURAL AREA (See Note 2)







** 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.

POST EMBEDMENT DEPTH

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

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" (±) 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" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 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" (±) 3" or as directd by the Engineer.

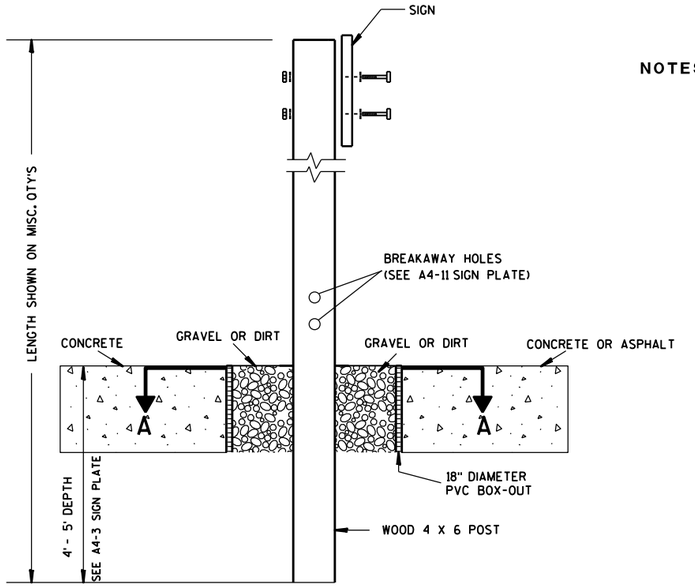
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

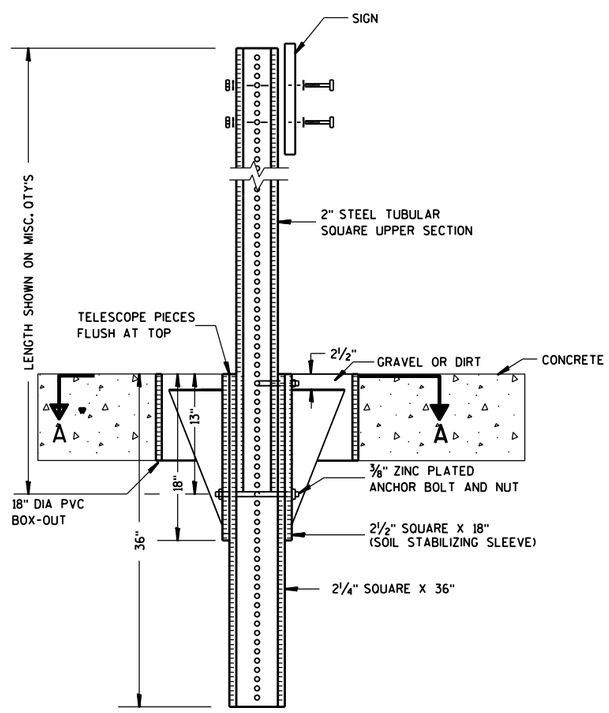
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 196	E



ELEVATION VIEW

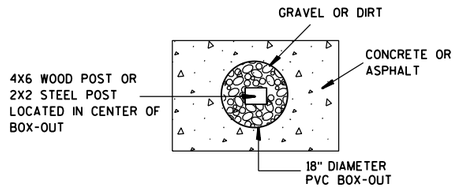
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

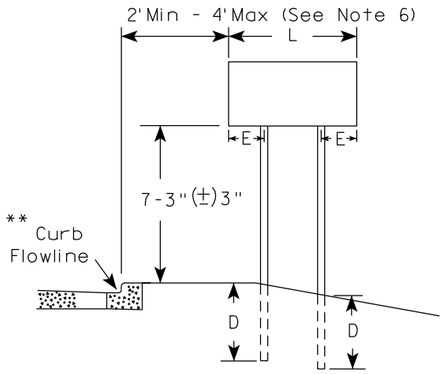
APPROVED Matthew R Rauch
for State Traffic Engineer

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

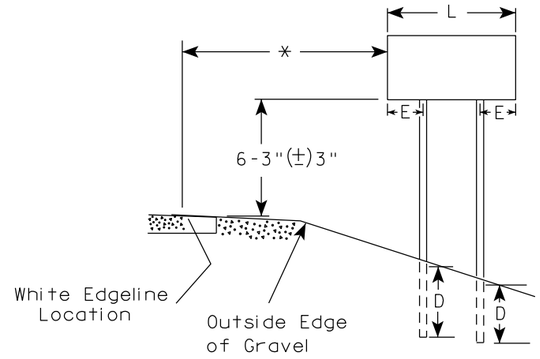
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

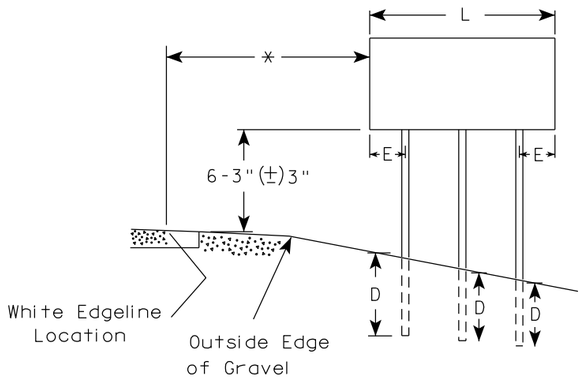
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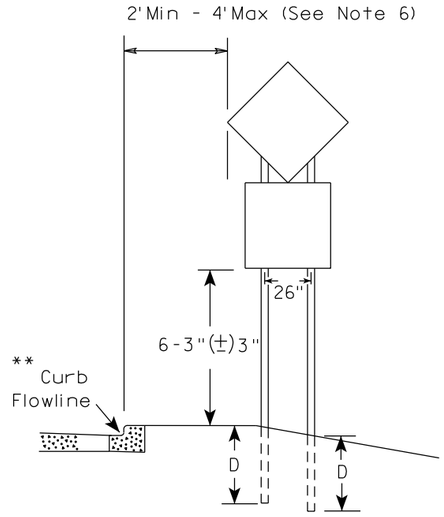
URBAN AREA



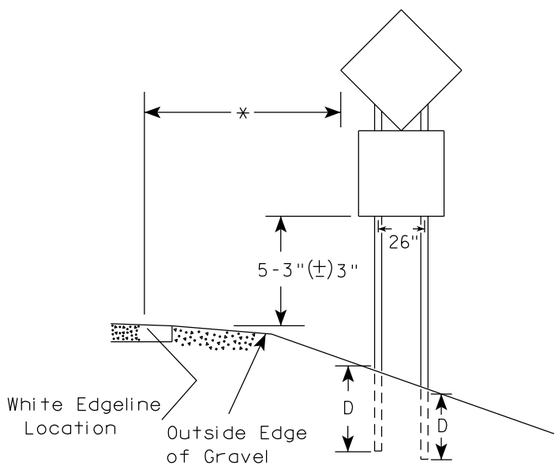
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
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" (±) 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.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

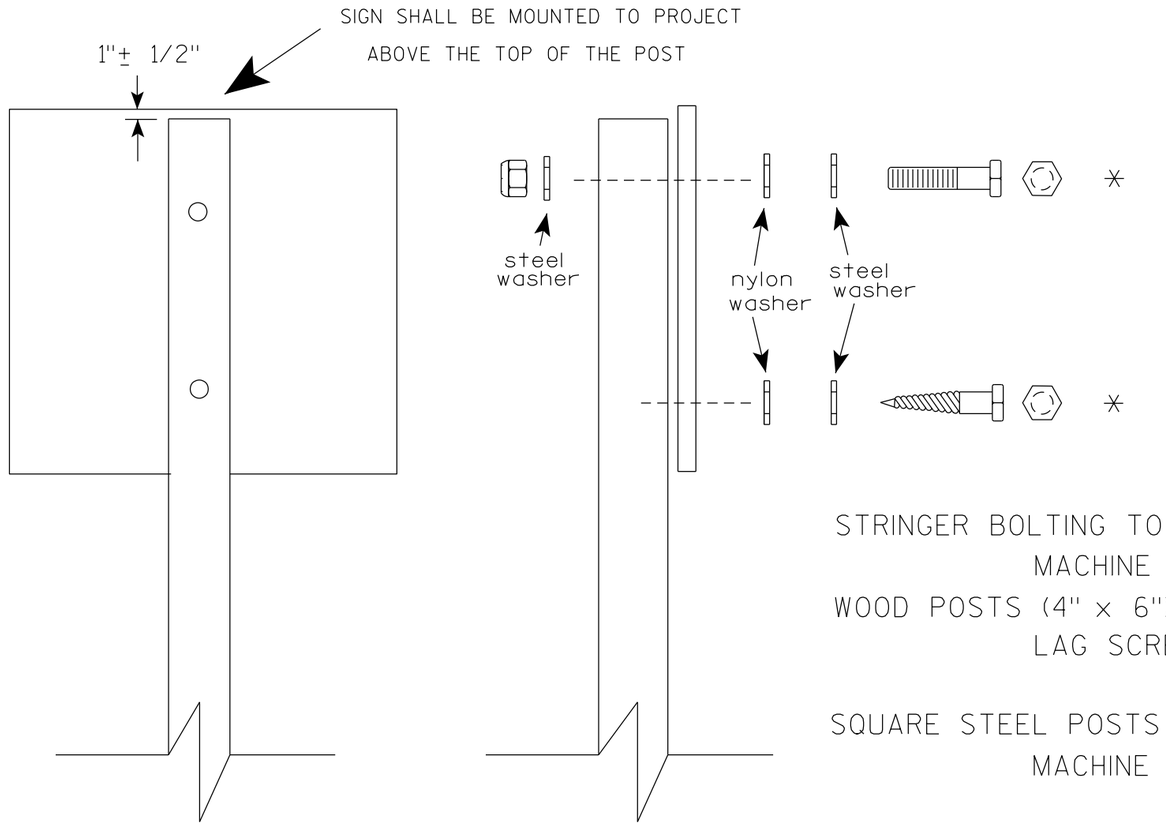
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 198	E



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 - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 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 - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

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

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

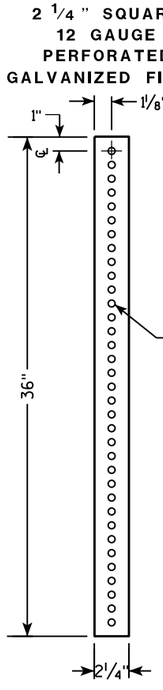
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

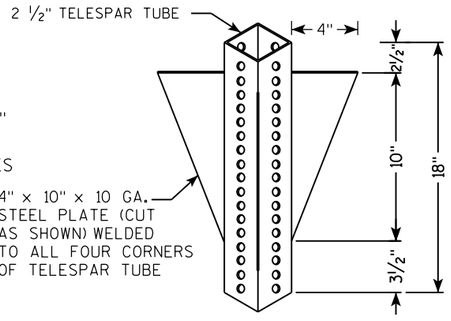
SHEET NO: 199 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

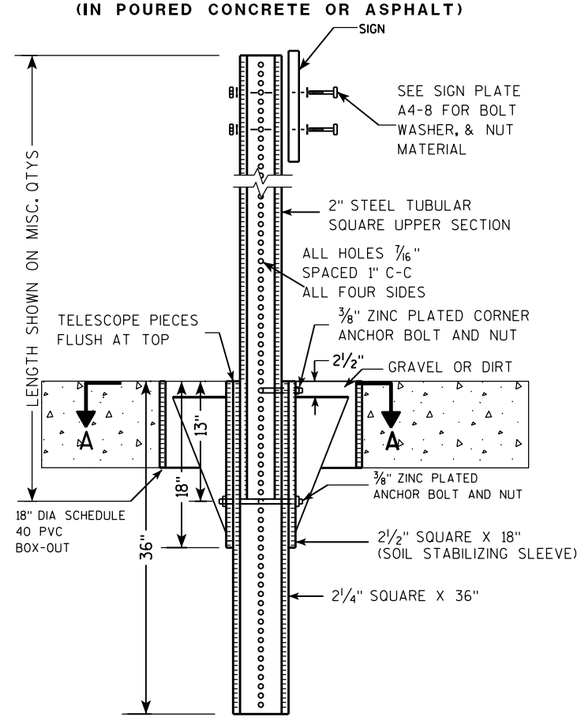
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



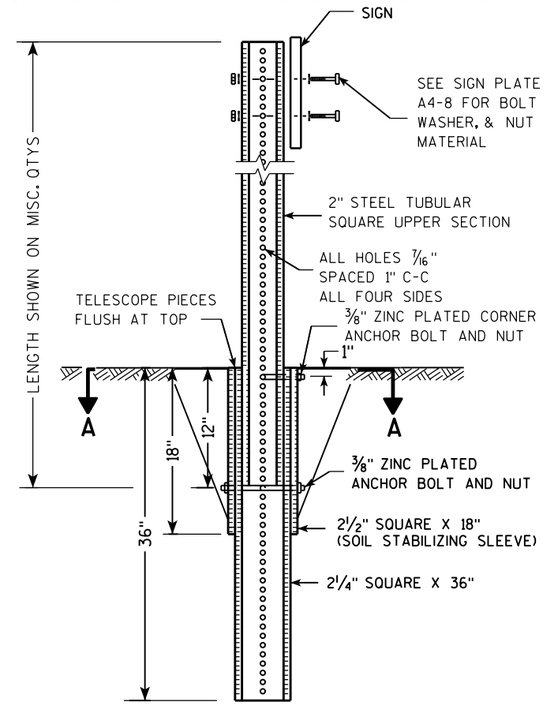
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

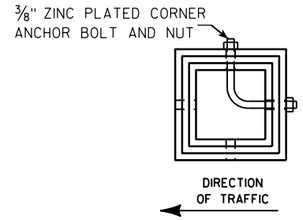


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

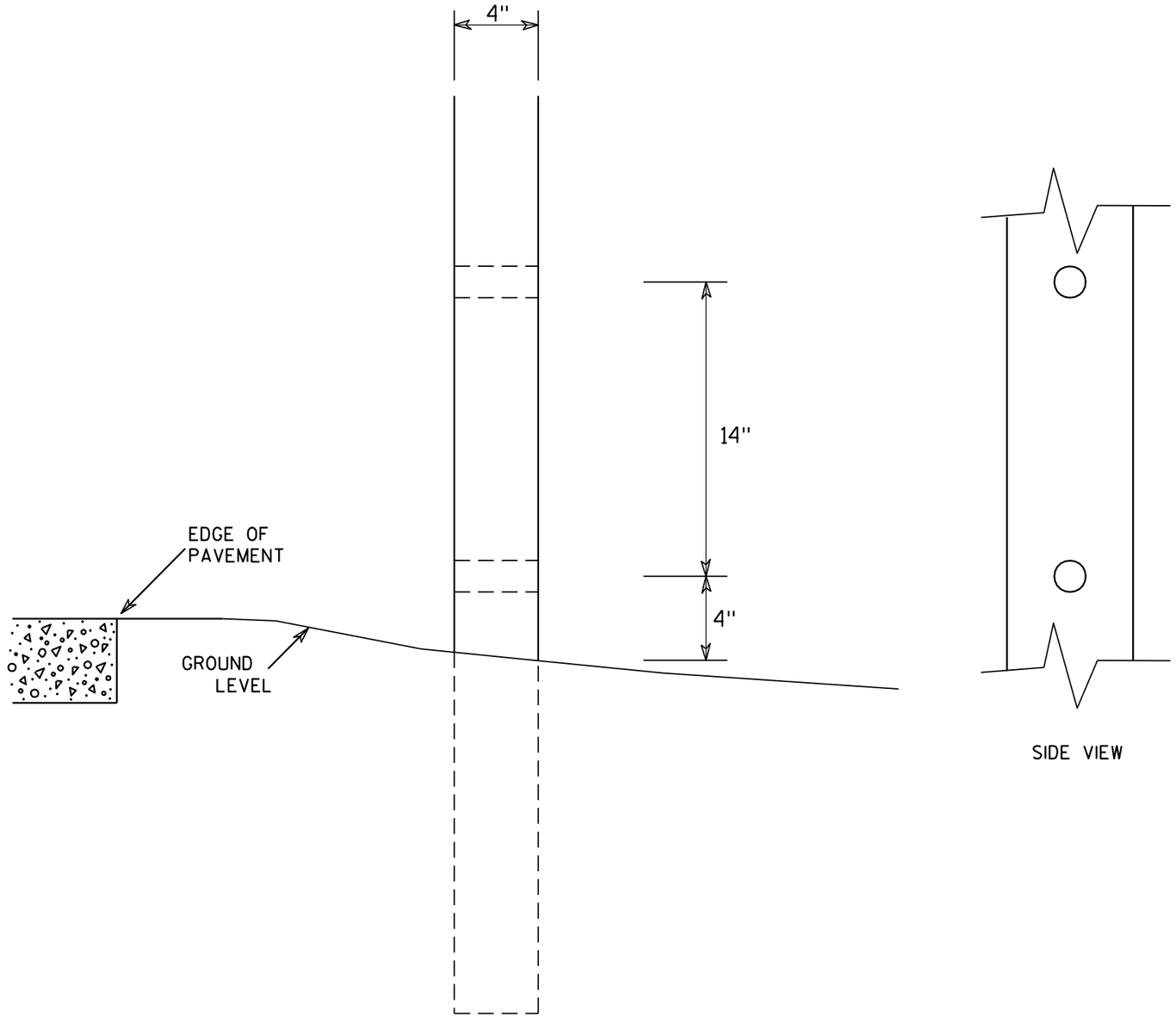
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 200 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

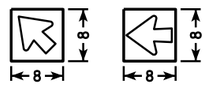
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

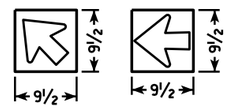
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 201	E

SIGN LAYOUT WITH VARIOUS SIZED MESSAGES

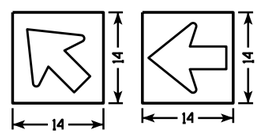




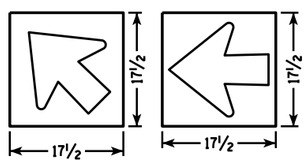










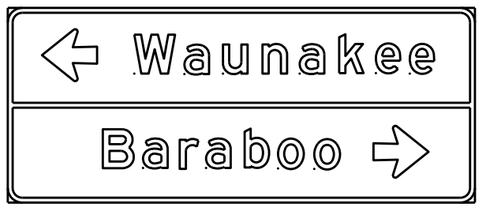


GENERAL NOTES

1. Materials shall conform to Standard Specification Section 637.
   Base - Sheet Aluminum 0.040" Thickness
   Sheeting - Orange Type F Reflective
   Arrow - Black Non-Reflective
2. Arrow signs shall be fastened to permanent sign by either aluminum rivets or aluminum self-tapping sheet metal screws. There shall be a minmum of 2 fasteners used per arrow sign.
3. There shall be a spacer consisting of a 0.08" nylon washer between the back of the arrow sign and the face of the permanent sign.
4. Arrows are per standard plate A1-2
5. Use separate arrow sign for each destination
6. Tilt arrow is always at 45 degrees
7. Arrow is centered on arrow sign

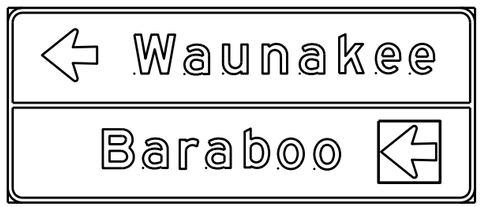
Lower Case Copy Size	Standard Width (Single Arrow)	2 Line Tilt Arrow Cover Width	3 Line Tilt Arrow Cover Width	Height
3¾" Series C	8	9 ½	14 ½	8
4½" Series D & E	9 ½	10	15	9 ½
6" Series D & E	14	16	20 ½	14
8" Series E	17 ½	20 ½	25	17 ½

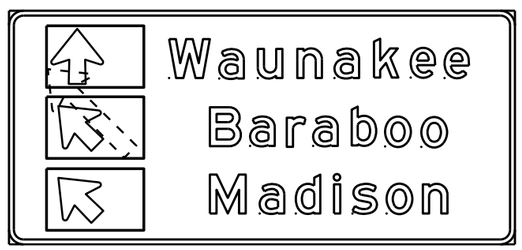
BEFORE





AFTER





DESTINATION DIRECTIONAL ARROW FOR DETOUR SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/08/14

A4-12.2

PROJECT NO:

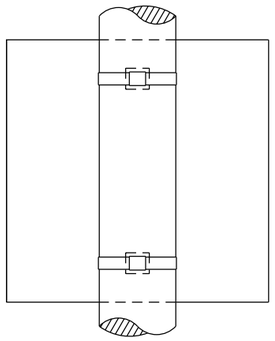
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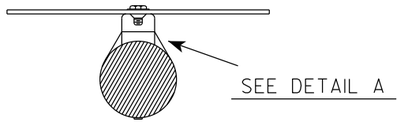
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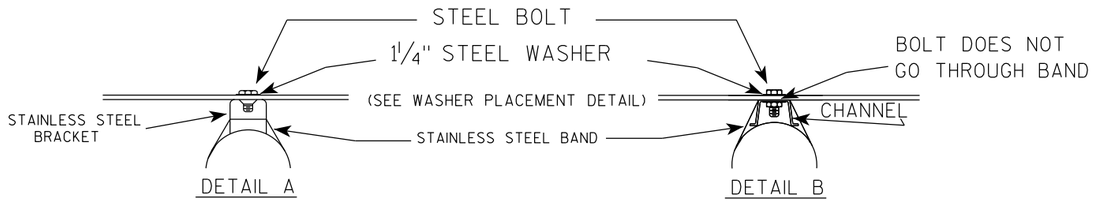
WISDOT/CADDS SHEET 42

BANDING

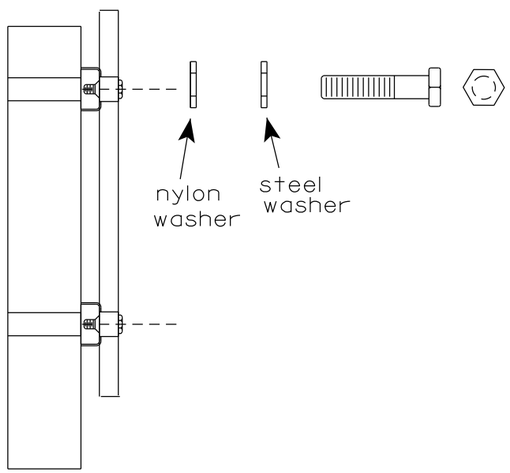
SINGLE SIGN







WASHER PLACEMENT

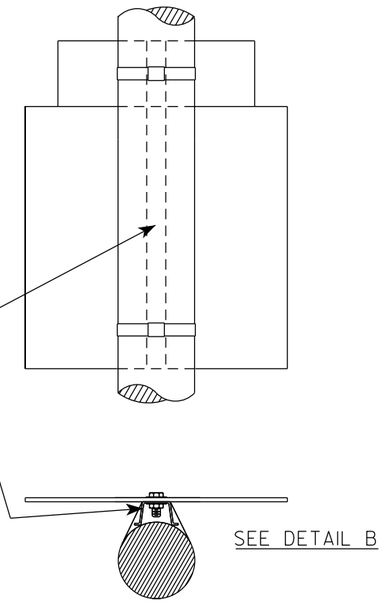


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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 ¾" 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

APPROVED Matthew R Rauch
for State Traffic Engineer

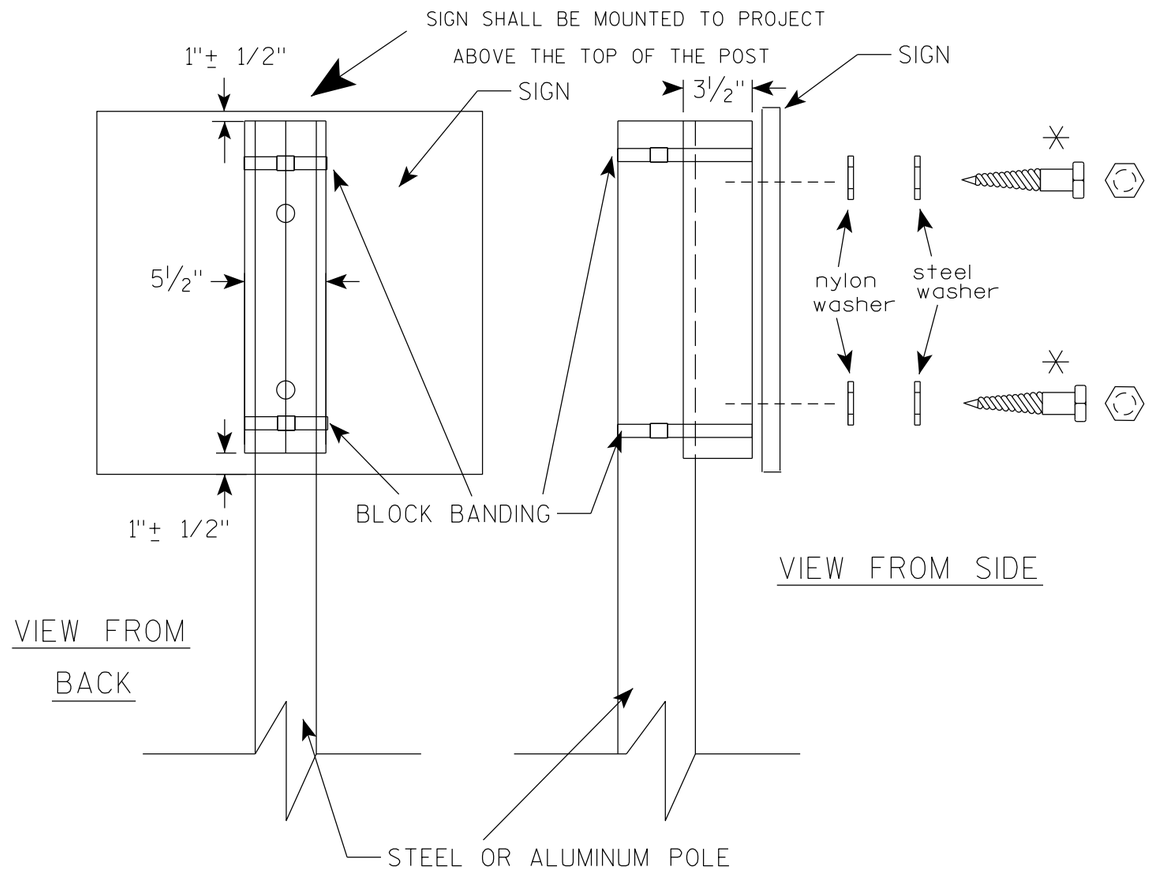
DATE 6/10/19 PLATE NO. A5-9.4

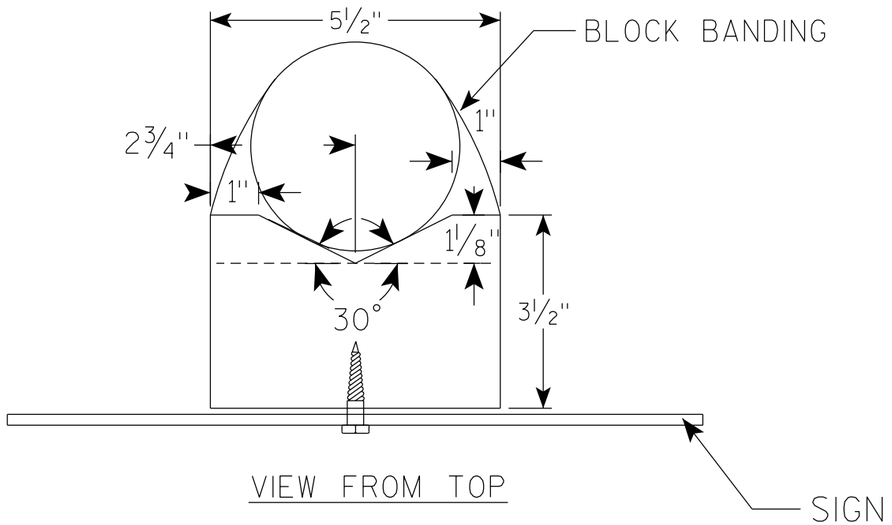
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 203	E

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7

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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, ¾" 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 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

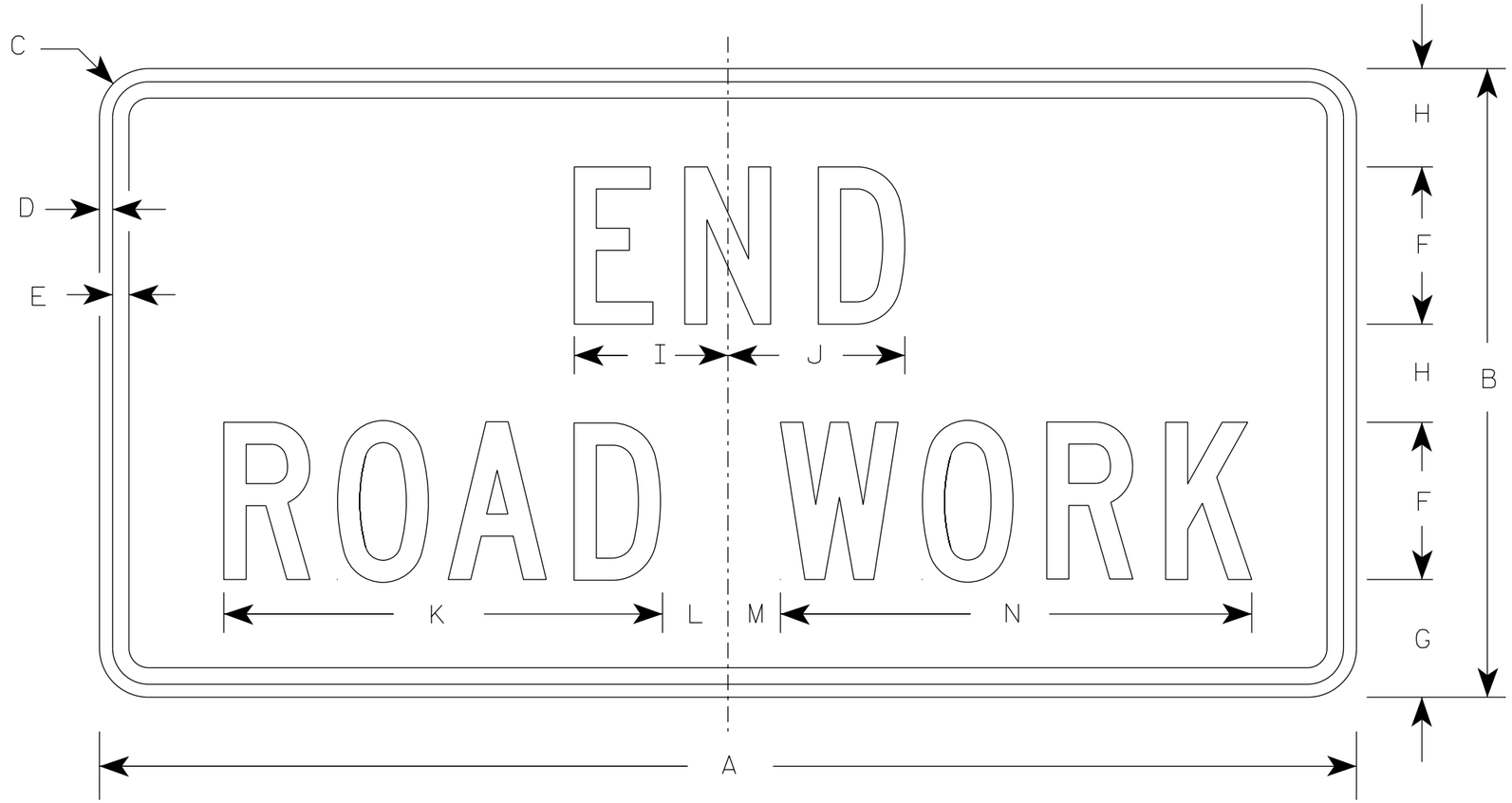
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 204 E



G20-2A

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	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 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
2M	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
3	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
4	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
5	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0

STANDARD SIGN

G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

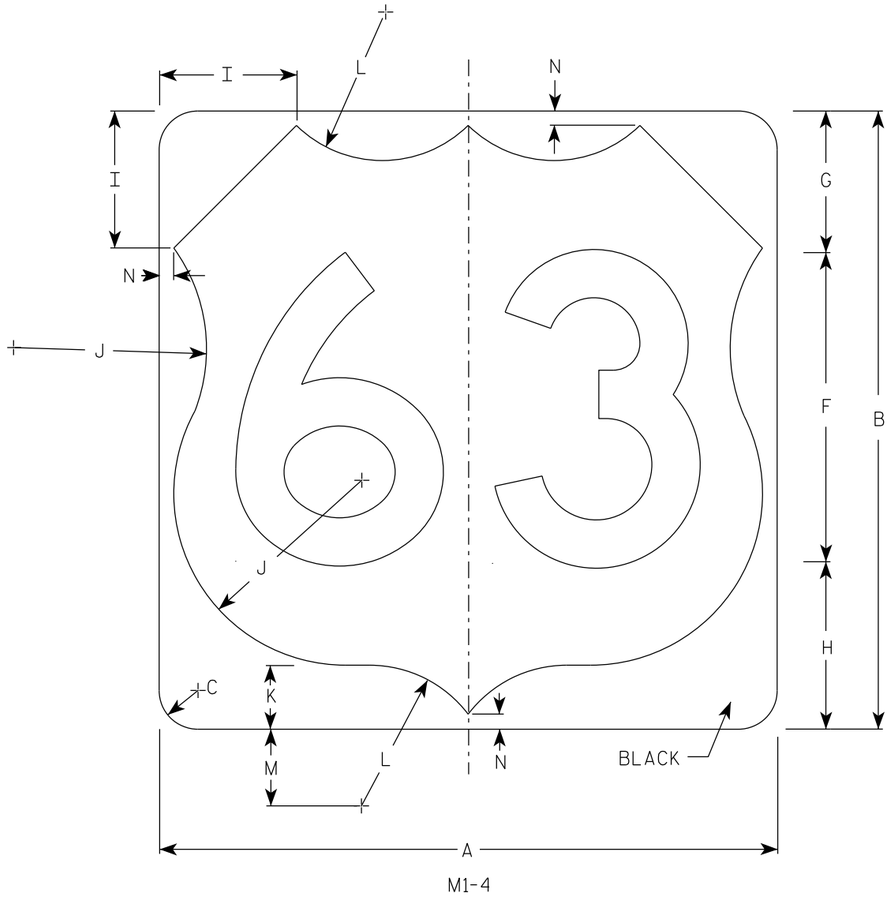
DATE 1/26/2023 PLATE NO. G20-2A.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 205 E

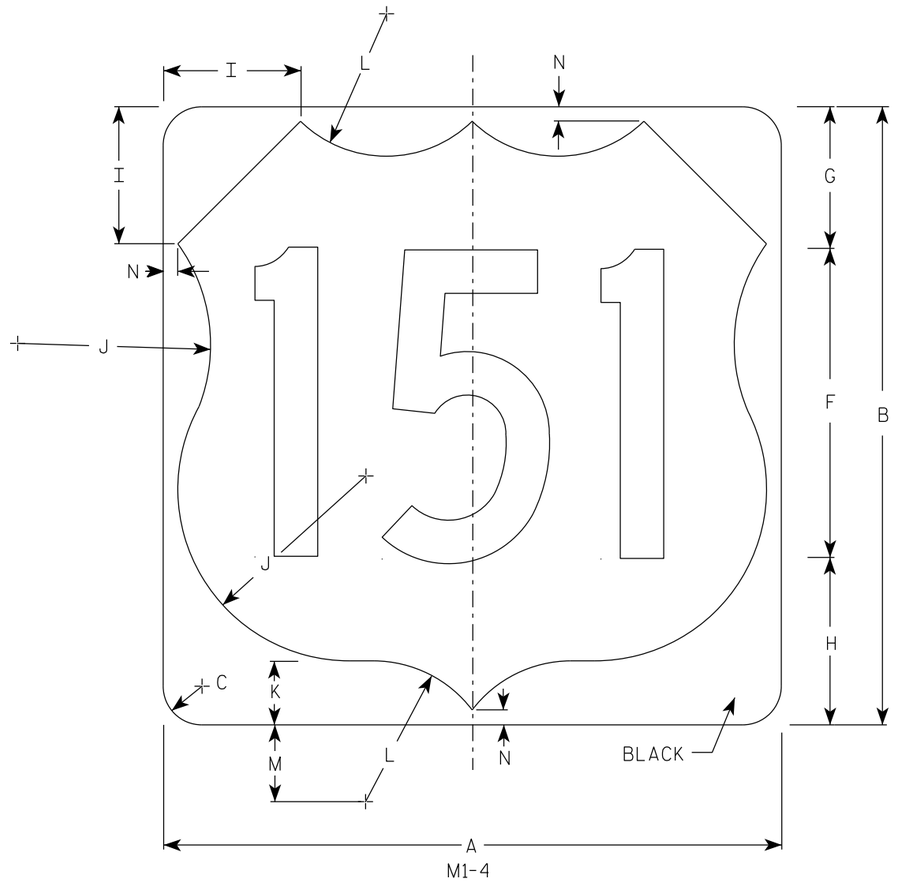
7

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C



M1-4



M1-4

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	24	1 ½			12	5 ½	6 ½	5	7 ½	2 ½	5 ½	3	½													4.0
2M	24	24	1 ½			12	5 ½	6 ½	5	7 ½	2 ½	5 ½	3	½													4.0
3	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0
4	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0
5	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0

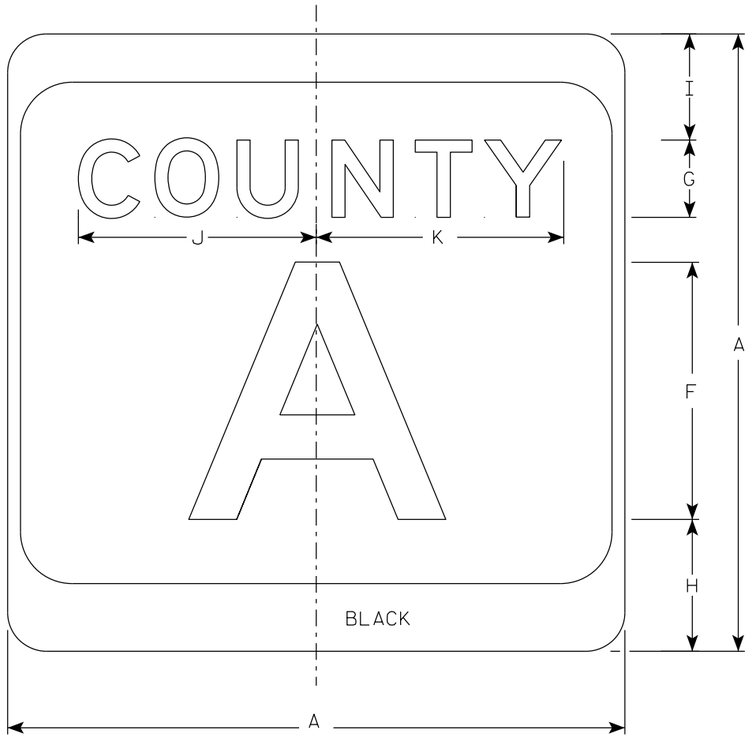
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

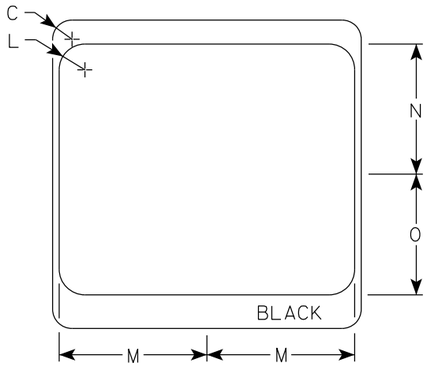
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/22 PLATE NO. M1-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 206 E

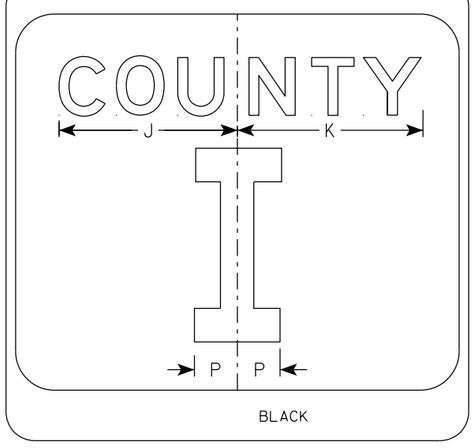


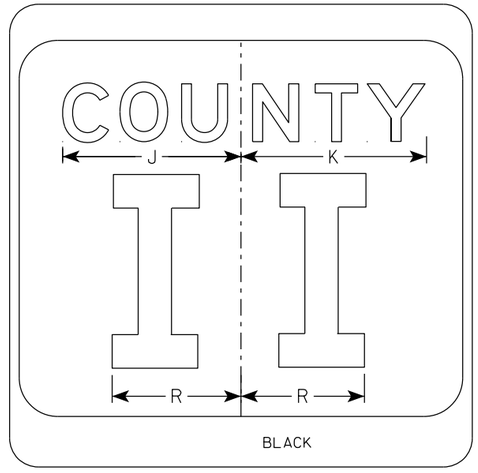
M1-5A



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White & Black
   Message - Black
3. Message Series - see Note 4
4. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
5. Substitute appropriate letters & optically center to achieve proper balance.





SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
2M	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

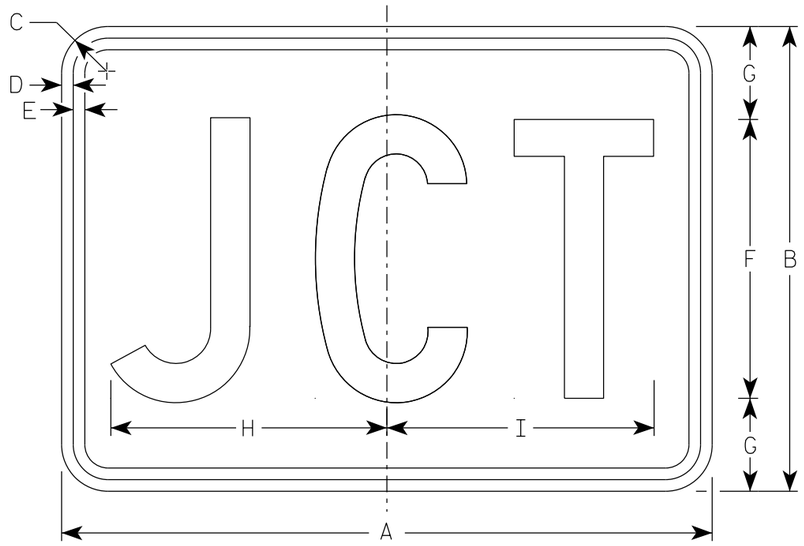
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-5A.9

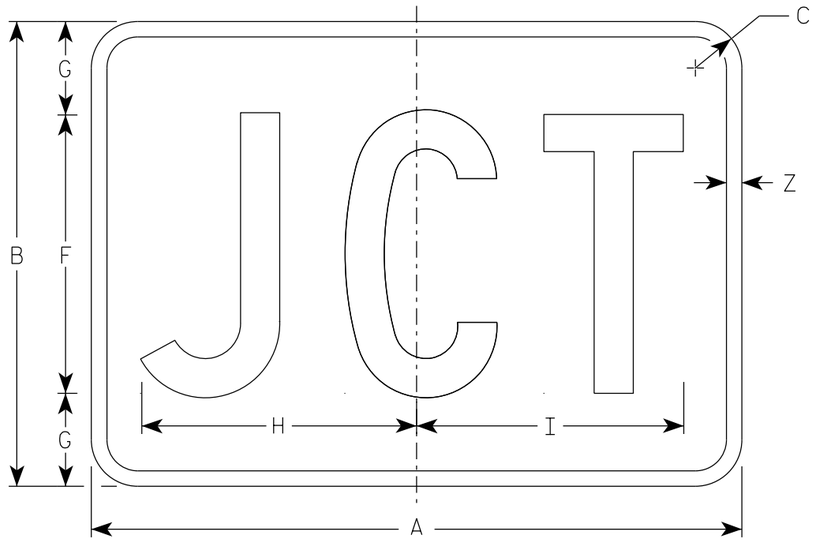
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M15A.dgn PLOT DATE : 8-NOV 2022 8:26 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21	15	1 1/2	3/8	3/8	9	3	8 7/8	8 5/8																	1/2	2.20
2M	21	15	1 1/2	3/8	3/8	9	3	8 7/8	8 5/8																	1/2	2.20
3	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40
4	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40
5	30	21	1 1/2	3/8	3/8	13	4	12 7/8	12 3/8																	1/2	4.40

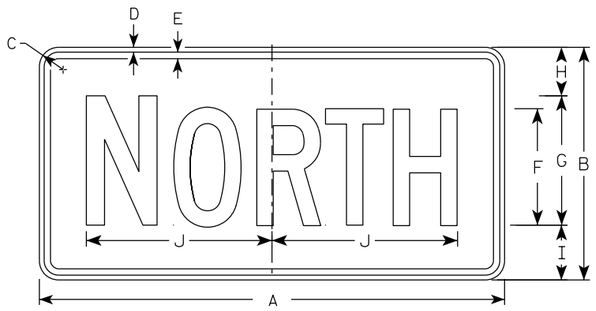
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

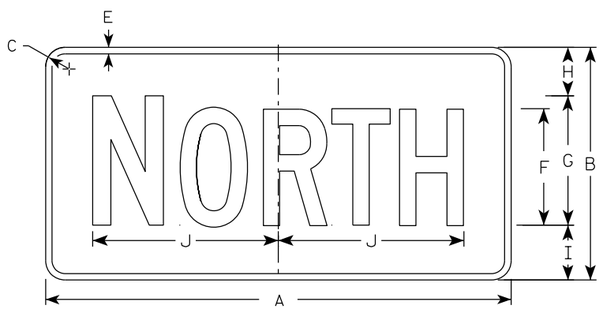
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/8/2023 PLATE NO. M2-1.14

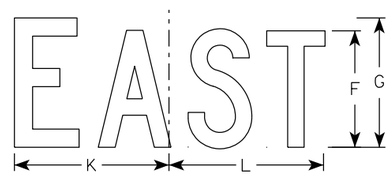
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 208 | E



M3-1
MM3-1
MP3-1



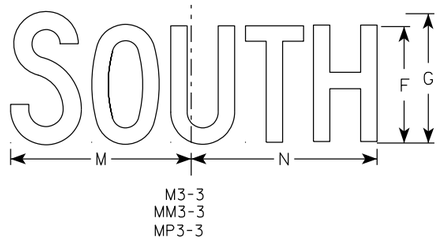
MB3-1
MK3-1
MN3-1



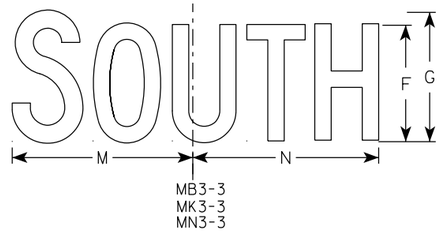
M3-2
MM3-2
MP3-2



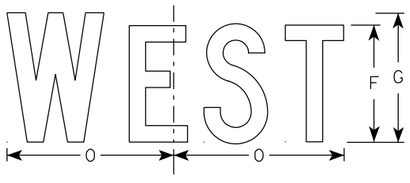
MB3-2
MK3-2
MN3-2



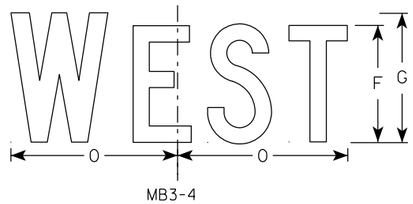
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
2M	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

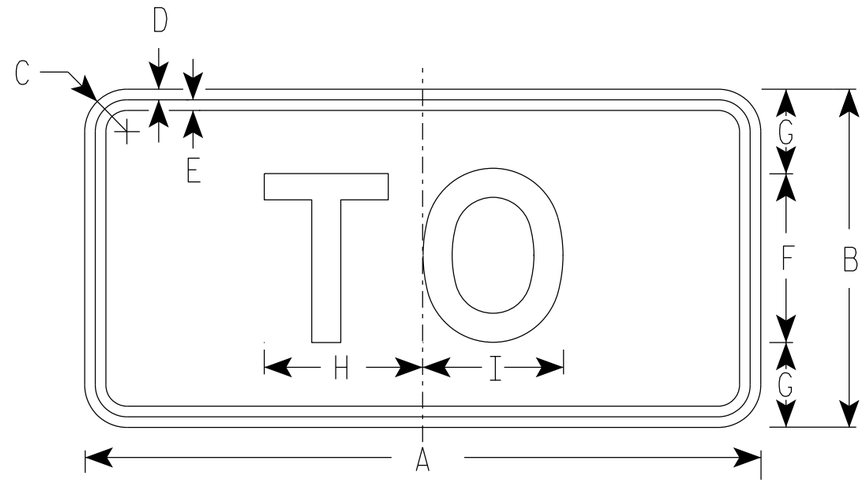
STANDARD SIGNS
M3-1 THRU M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

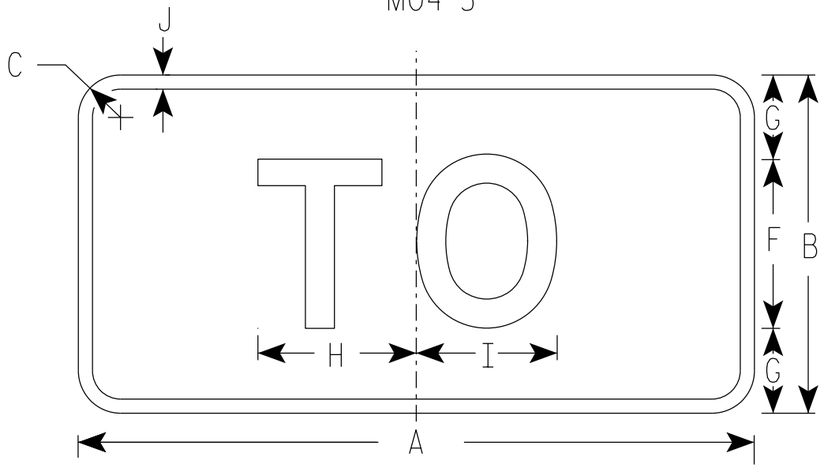
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/2023 PLATE NO. M3-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 209 | E



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

   M04-5 Background - Orange Type F Reflective
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 ½	⅜	⅜	6	3	5 ⅜	5 ¼	½																	2.00
2M	24	12	1 ½	⅜	⅜	6	3	5 ⅜	5 ¼	½																	2.00
3	36	18	1 ½	⅜	½	9	4 ½	8 ¼	8 ⅜	½																	4.5
4	36	18	1 ½	⅜	½	9	4 ½	8 ¼	8 ⅜	½																	4.5
5	36	18	1 ½	⅜	½	9	4 ½	8 ¼	8 ⅜	½																	4.5

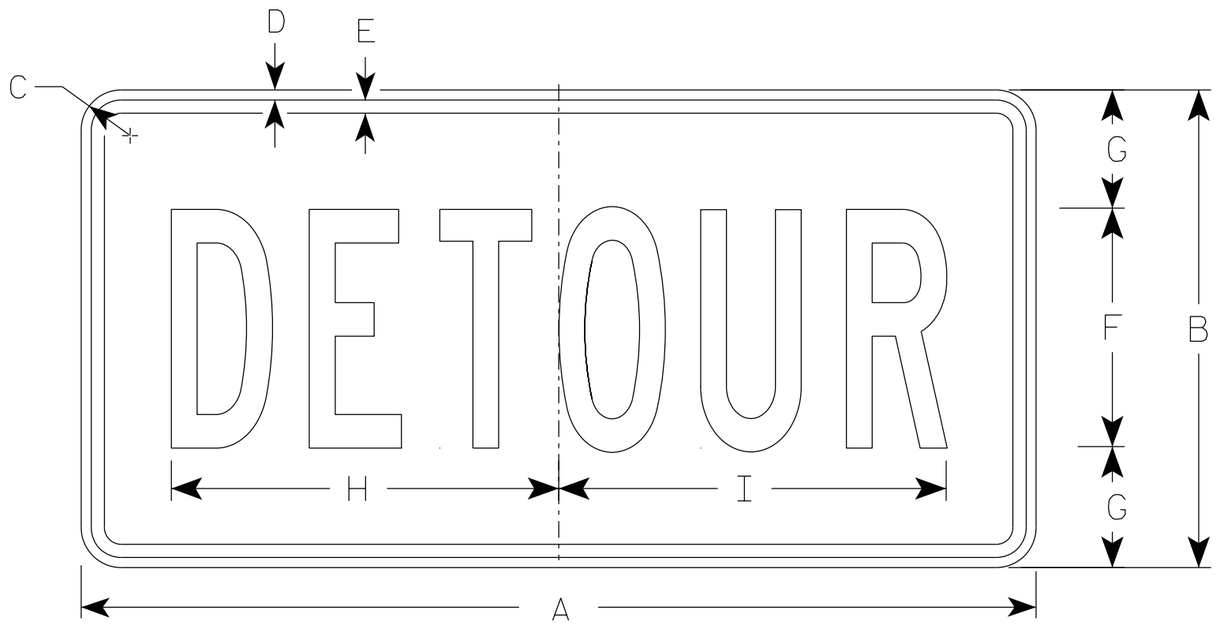
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/8/2023 PLATE NO. M4-5.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 210 E



M4-8

NOTES

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	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

STANDARD SIGN
M4-8

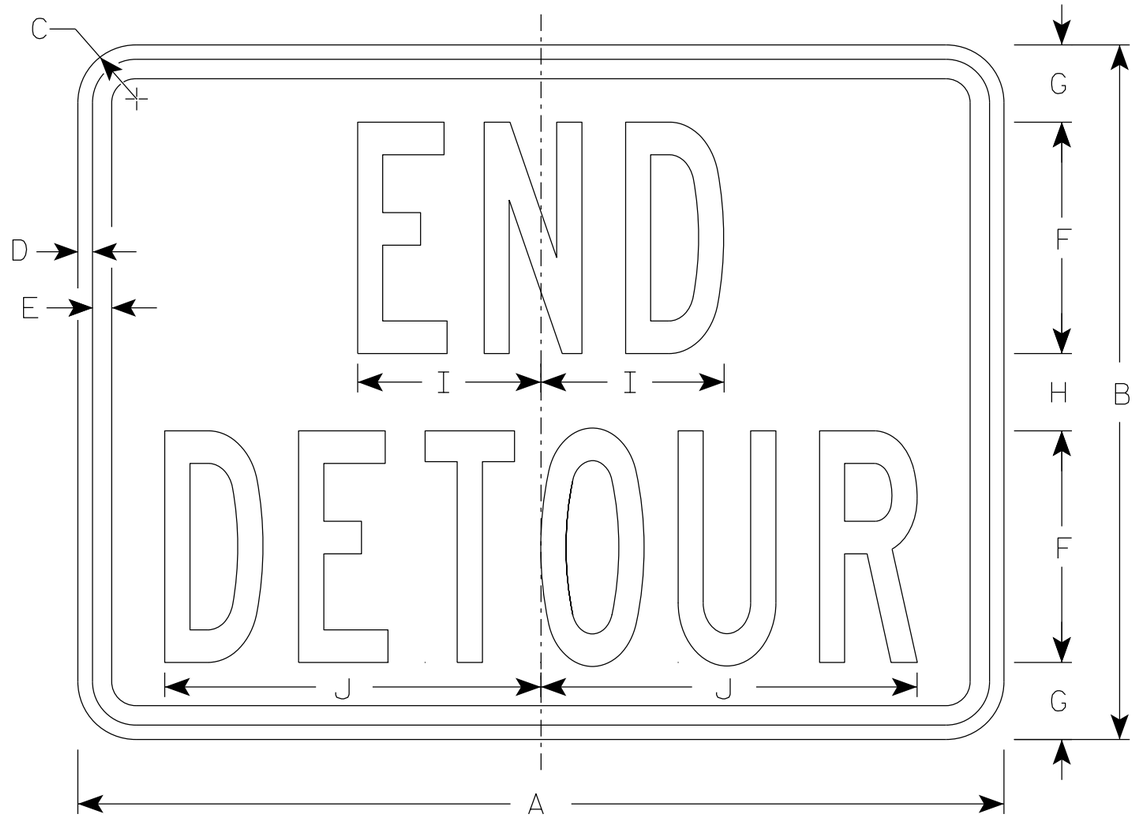
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M48.dgn PLOT DATE : 9-FEB 2023 7:38 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



M4-8A

NOTES

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
2M	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
3	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
4	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
5	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0

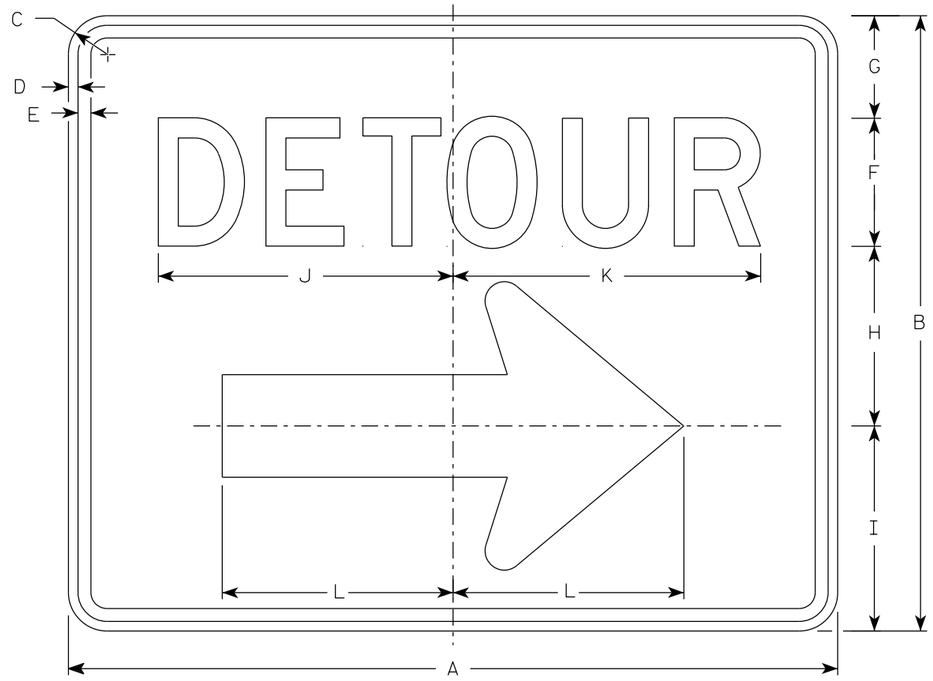
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

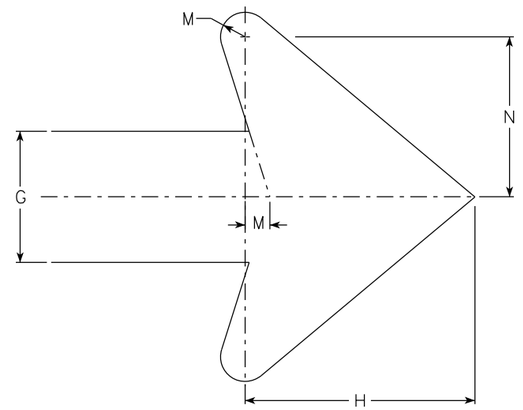
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 212 | E



M4-9R

NOTES

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.
4. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

STANDARD SIGN
M4-9 R & L

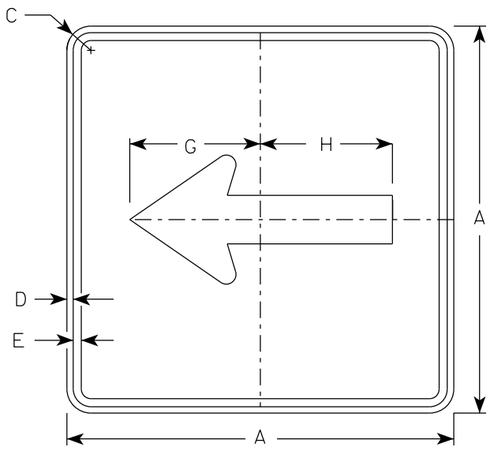
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

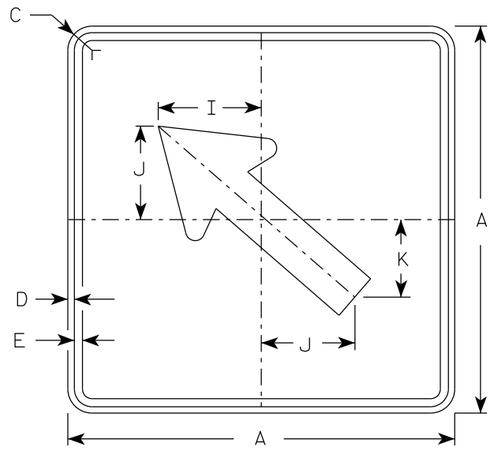
DATE 2/9/2023 PLATE NO. M4-9R.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

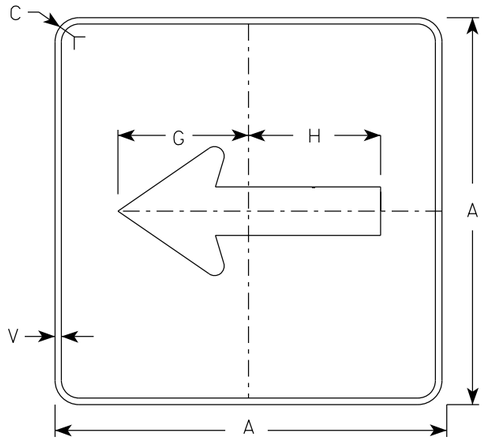
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M49R.dgn PLOT DATE : 21-MARCH 2023 1:40 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



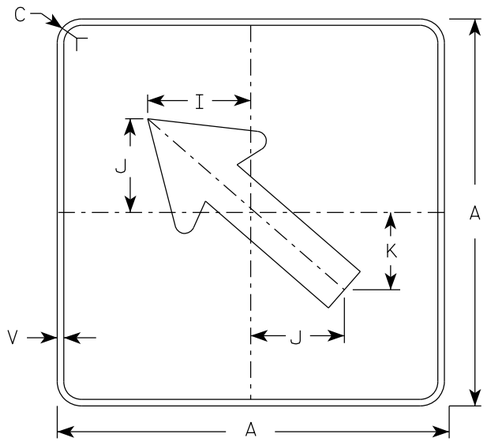
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

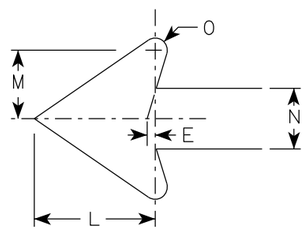


MB6-2
MK6-2
MN6-2
MR6-2

NOTES

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
   MO6-1 and MO6-2 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

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	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 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	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 7/8	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 7/8	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

STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

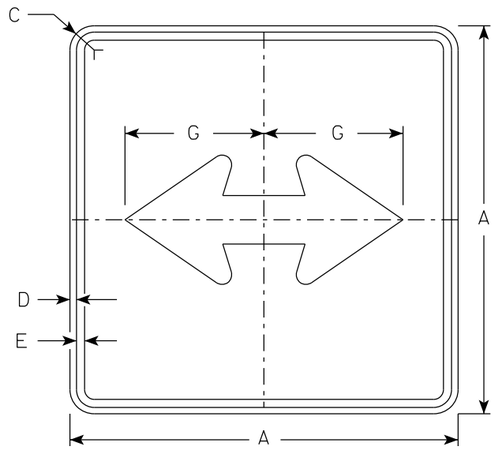
APPROVED Matthew R Rauch
For State Traffic Engineer

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

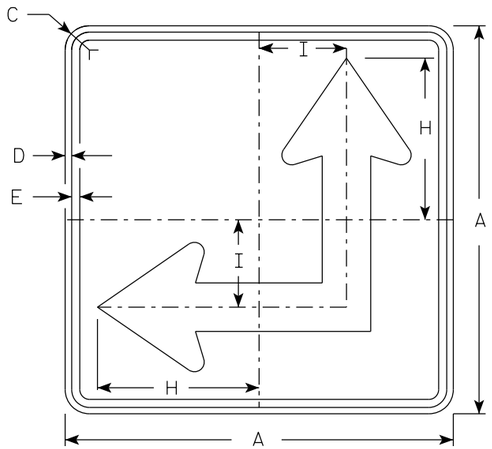
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 214 | E

7

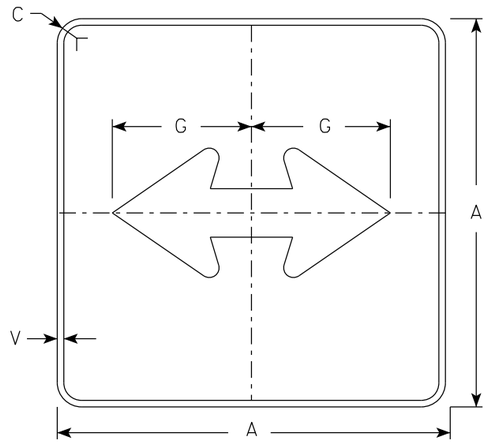
7



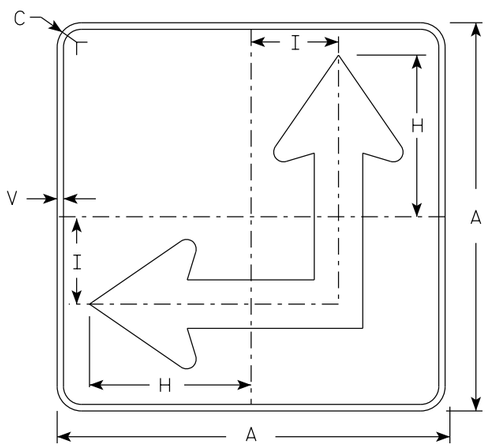
M6-4
MM6-4
MO6-4
MP6-4



M6-6
MM6-6
MO6-6
MP6-6



MB6-4
MK6-4
MN6-4
MR6-4

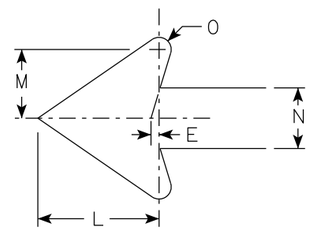


MB6-6
MK6-6
MN6-6
MR6-6

NOTES

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. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7 1/2	8 3/4	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	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

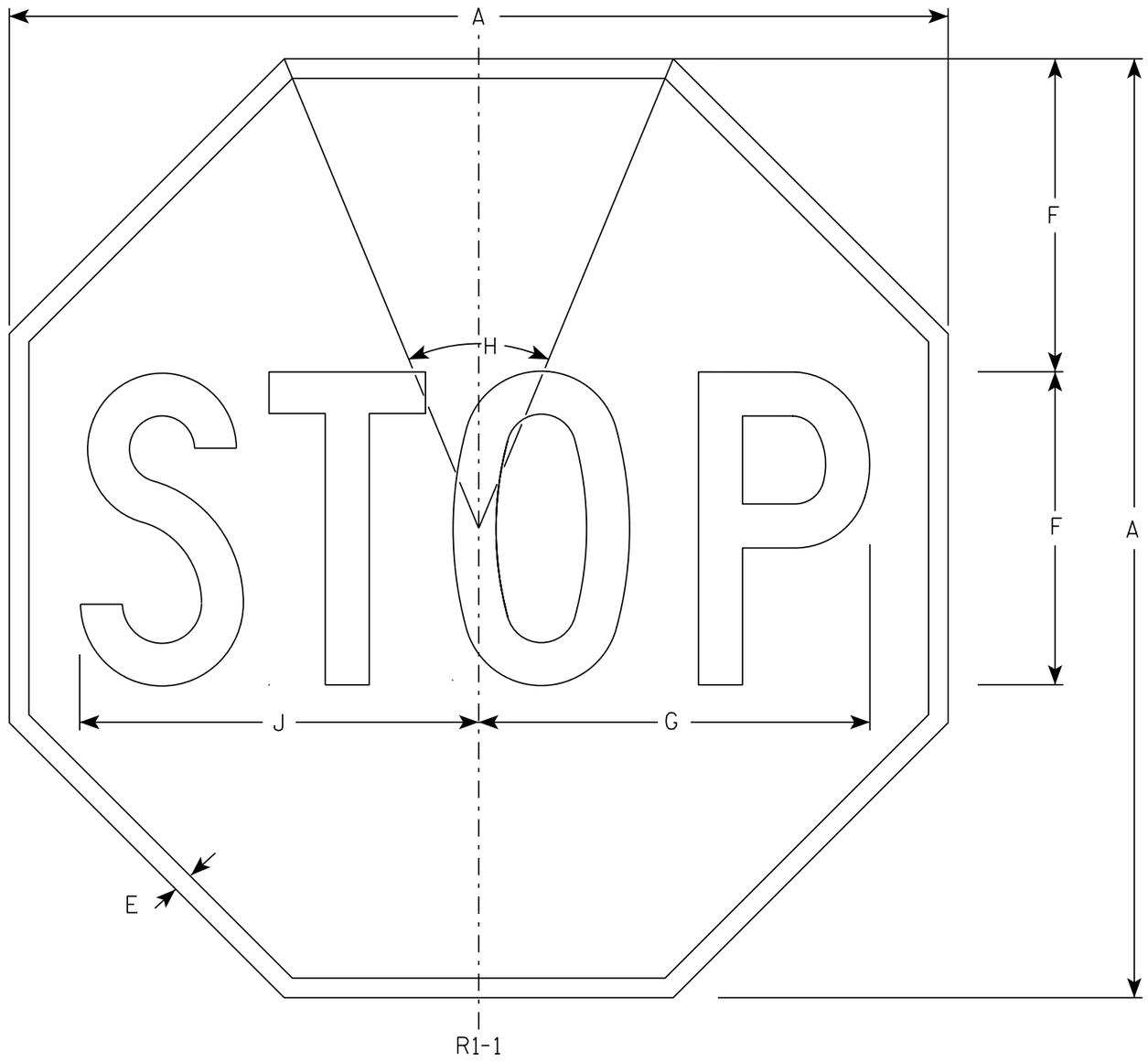
STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 215 | E



NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	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

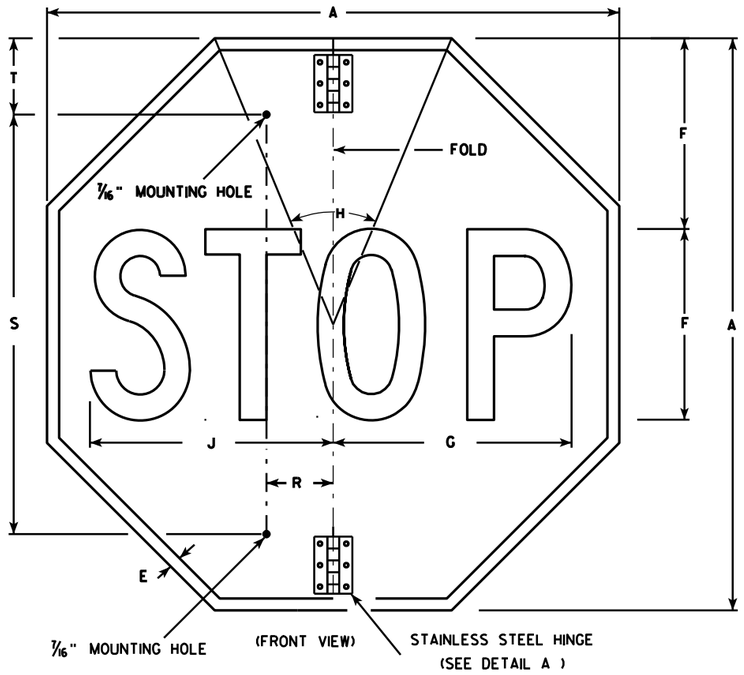
STANDARD SIGN
R1-1

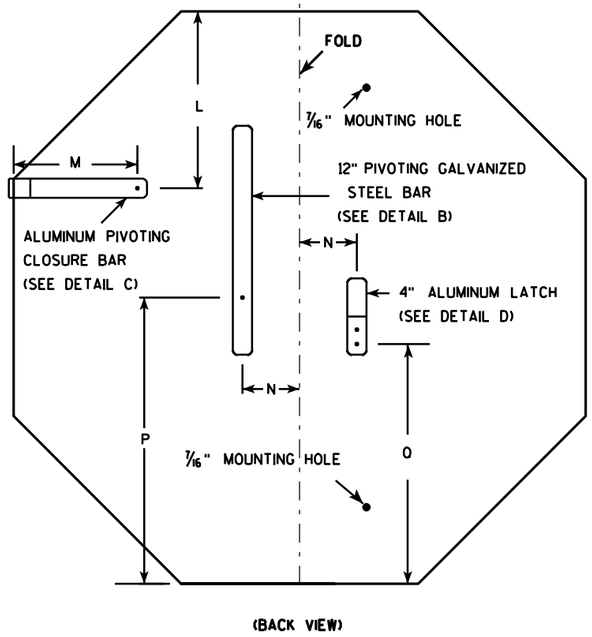
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

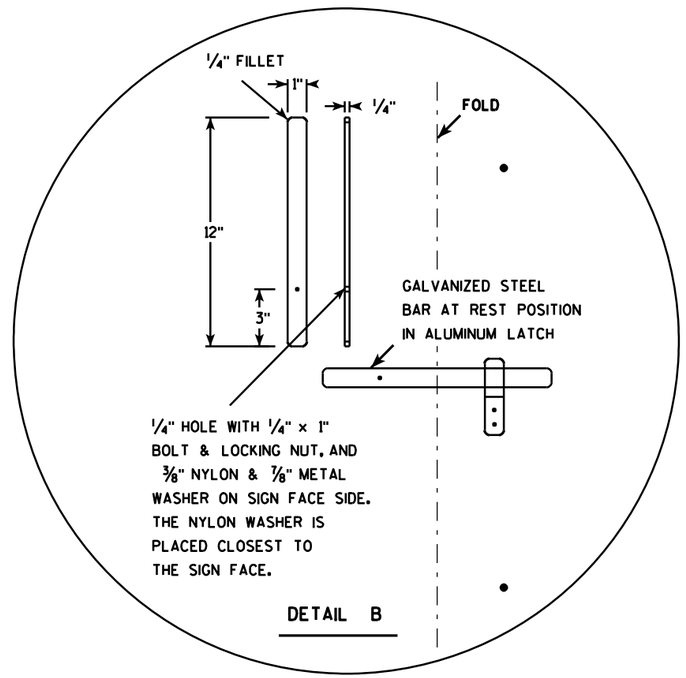
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 216	E

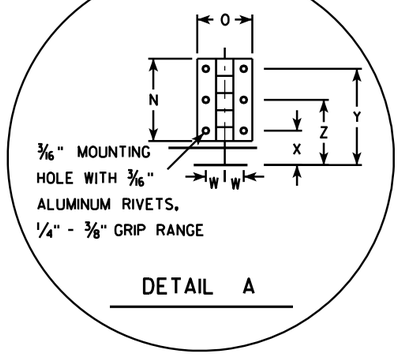


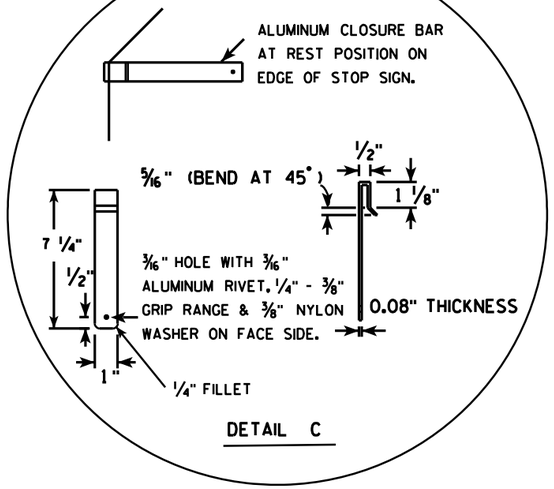


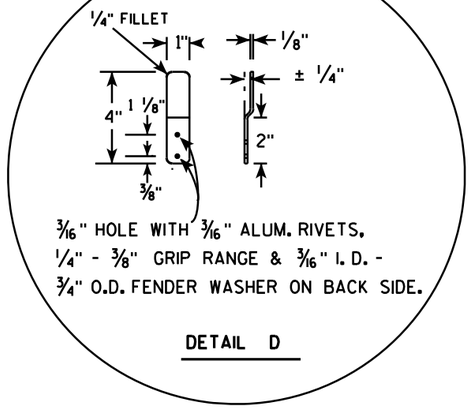
NOTES

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
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.









SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

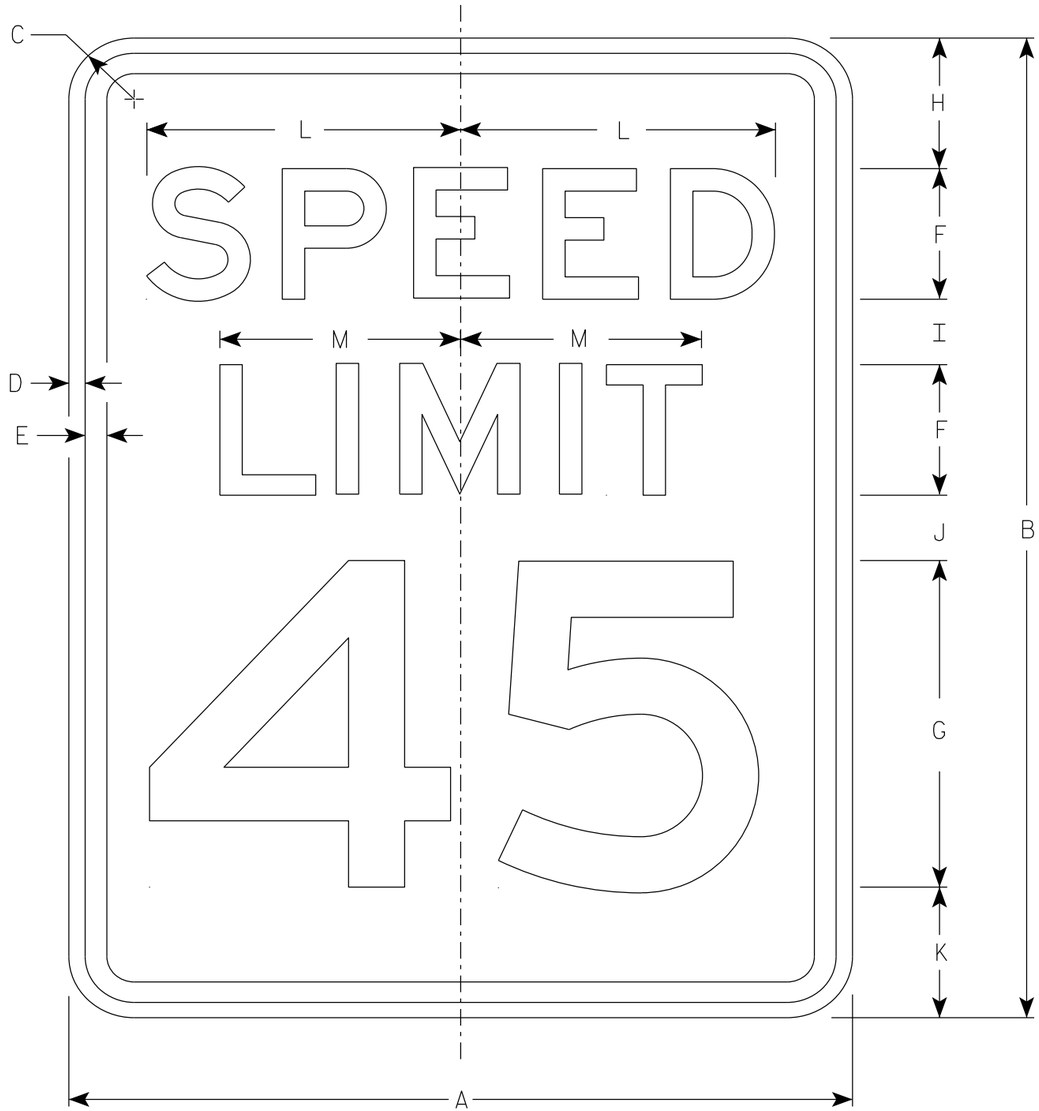
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 217 | E



R2-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/2	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 7/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

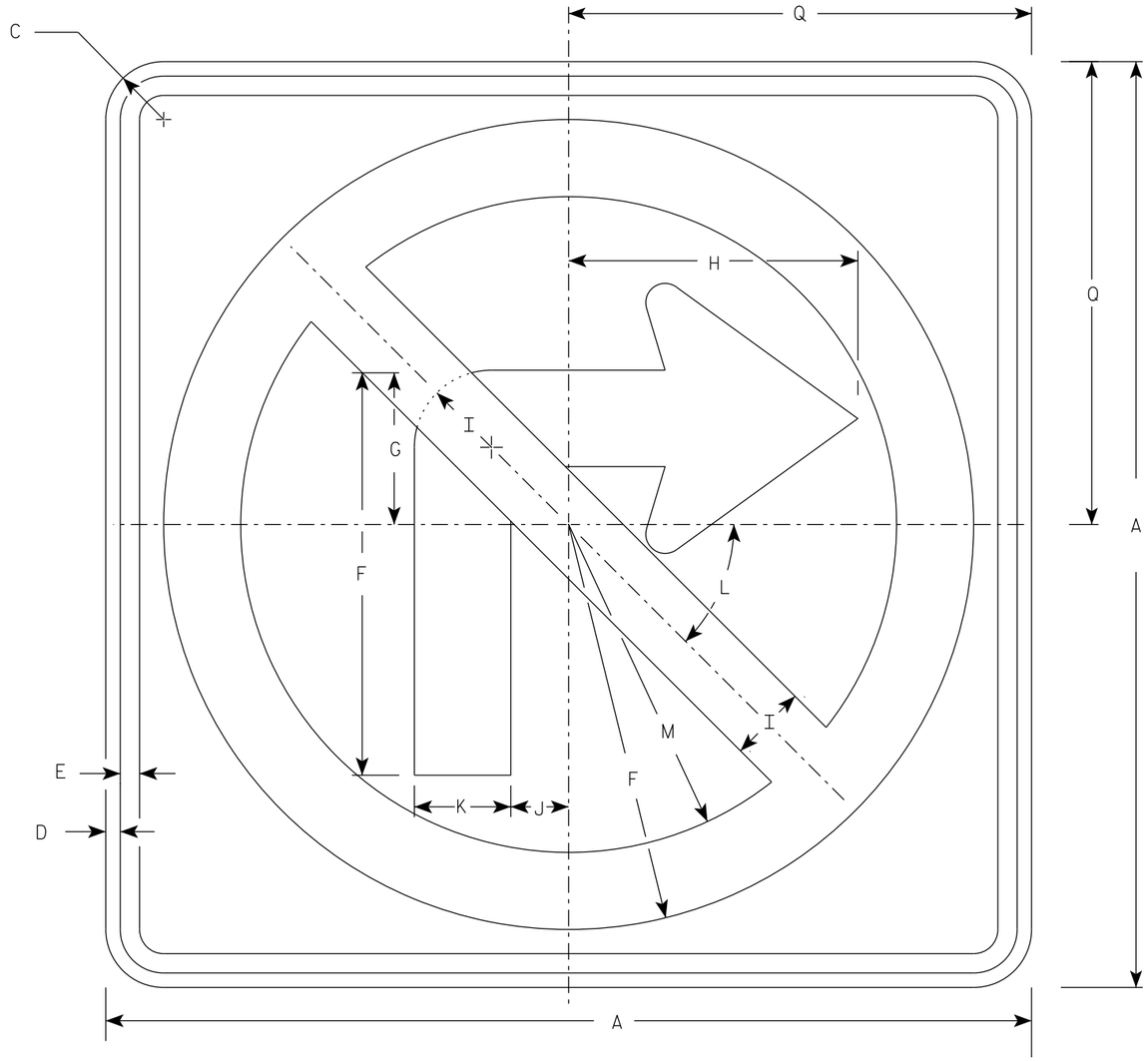
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/23 PLATE NO. R2-1.14

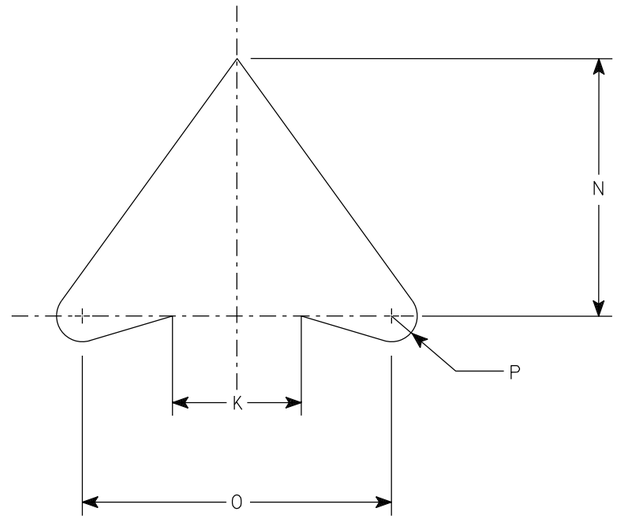
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 218 | E



R3-1

NOTES

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 ½	⅜	½	10 ½	4	7 ½	2	1 ½	2 ½	45	8 ½	5	6	½	12										4.0
2S	24		1 ½	⅜	½	10 ½	4	7 ½	2	1 ½	2 ½	45°	8 ½	5	6	½	12										4.0
2M	36		2 ¼	⅝	¾	15 ¾	6	11 ¼	3	2 ¼	3 ¾	45	12 ¾	7 ½	9	¾	18										9.0
3	36		2 ¼	⅝	¾	15 ¾	6	11 ¼	3	2 ¼	3 ¾	45	12 ¾	7 ½	9	¾	18										9.0
4	36		2 ¼	⅝	¾	15 ¾	6	11 ¼	3	2 ¼	3 ¾	45°	12 ¾	7 ½	9	¾	18										9.0
5	48		2 ¼	¾	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

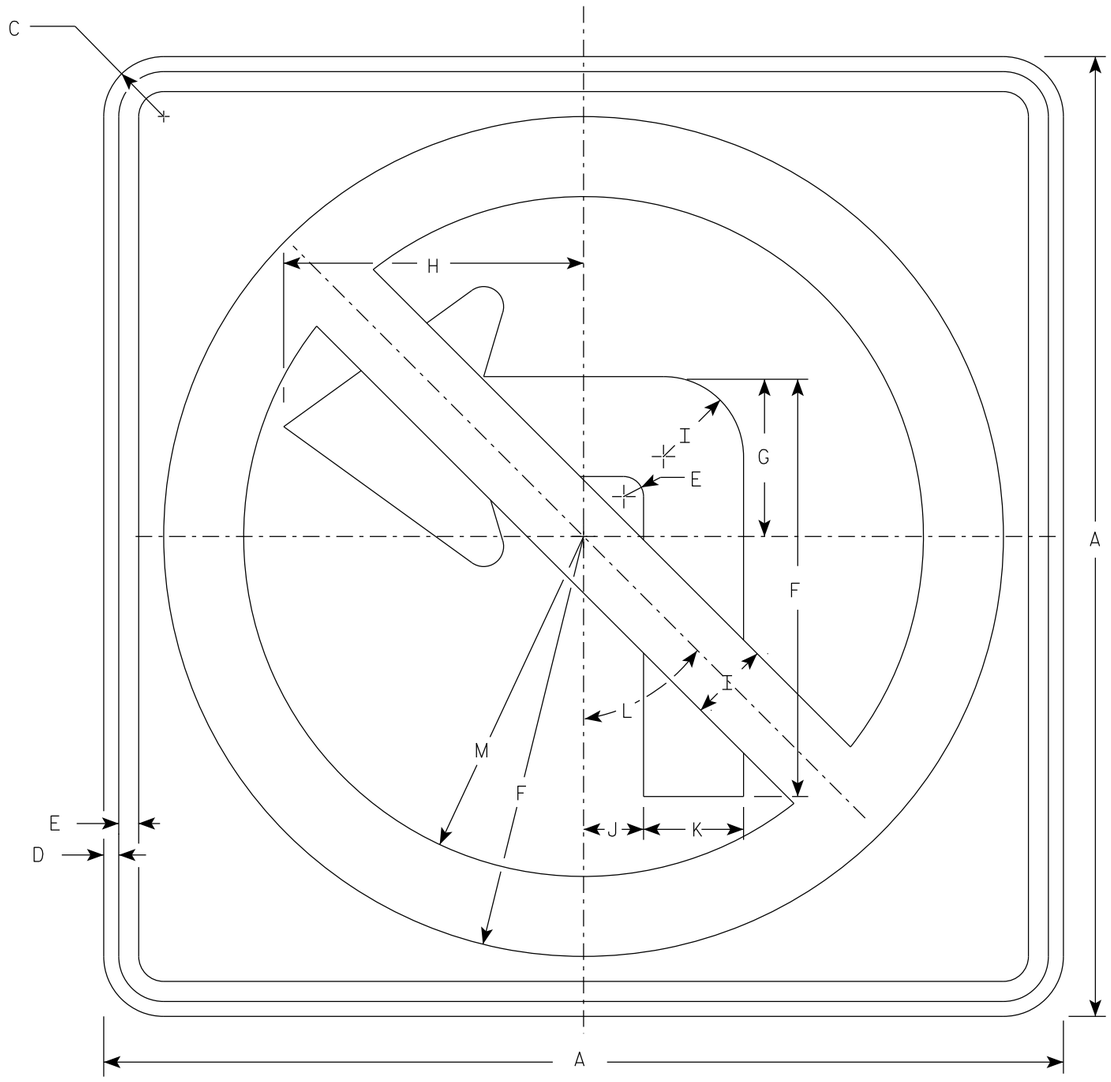
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

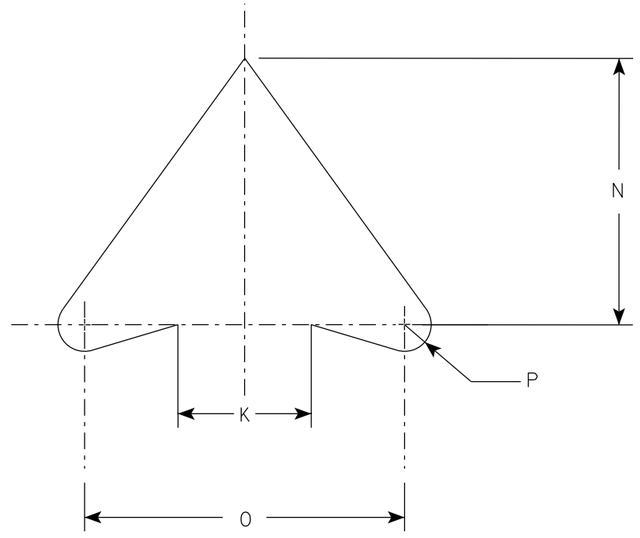
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 219 | E



R3-2

NOTES

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	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
2S	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 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		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

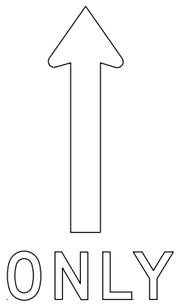
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/2/23 PLATE NO. R3-2.11

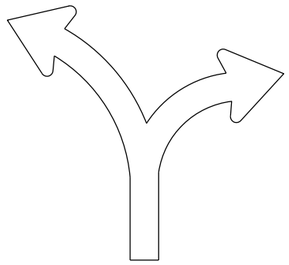
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 220 | E

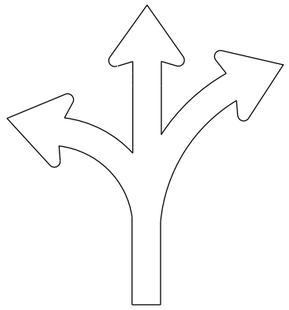


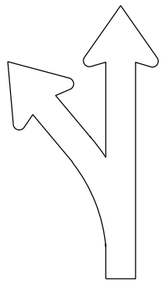
(A)

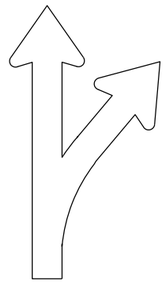


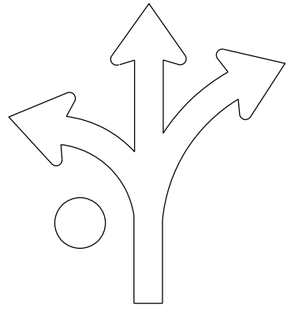
(B)

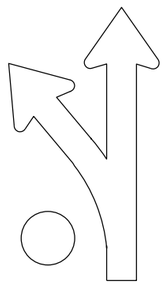

(C)

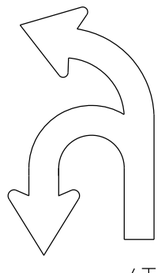

(D)

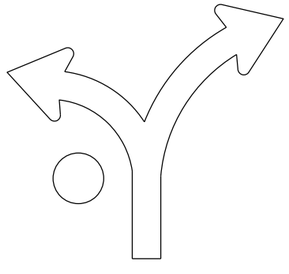

(E)

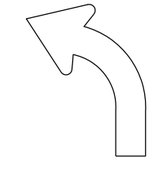

(F)


(G)

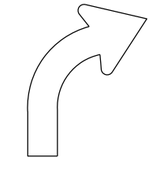

(H)


(I)


(J)



(L)



(R)

NOTES

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

1	Letter =	3.75 sq ft for Size 2
		6.0 sq ft for Size 3
		10.0 sq ft for Size 4 or 5
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 sq ft for Size 3
		40.0 sq ft for Size 4 or 5
5	Letters =	18.75 sq ft for Size 2
		30.0 sq 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 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 221 E

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 14-FEB 2023 3:01 PLOT BY : mscj9h PLOT NAME :

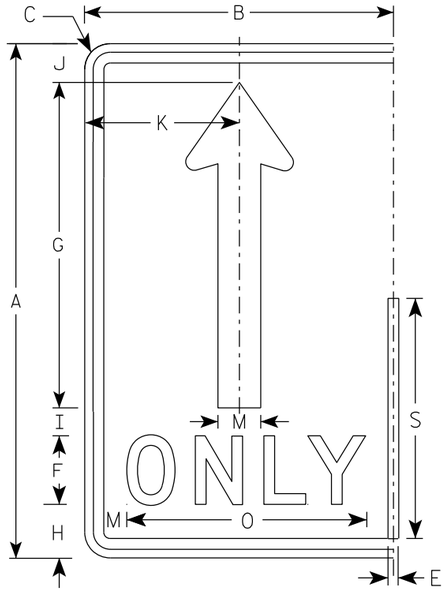
WISDOT/CADDS SHEET 42

7

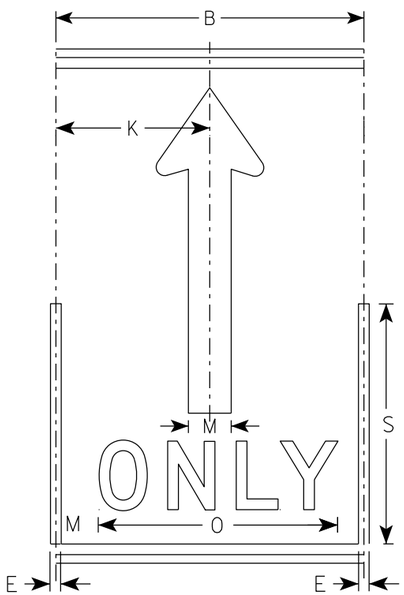
7

NOTES

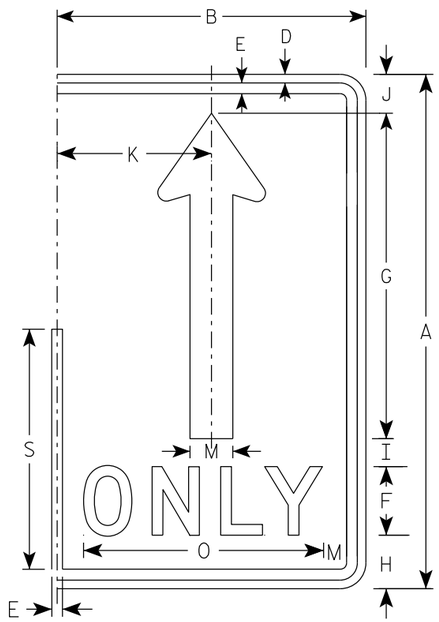
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



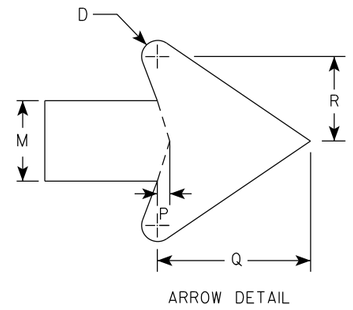
(A)



(A)



(A)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	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
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 3/4	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 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	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 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

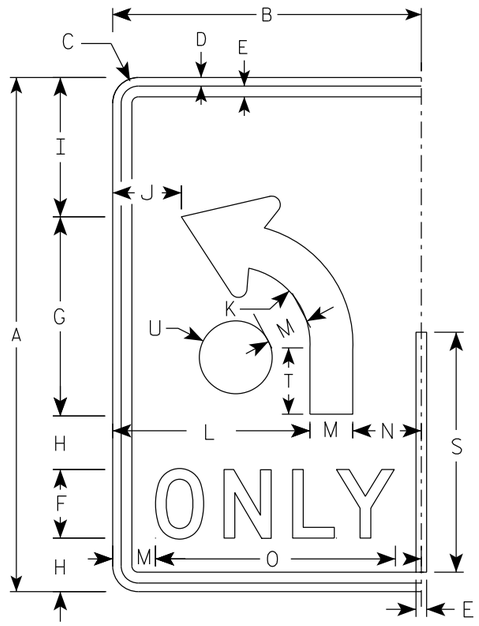
APPROVED Matthew R Rauch
for State Traffic Engineer

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

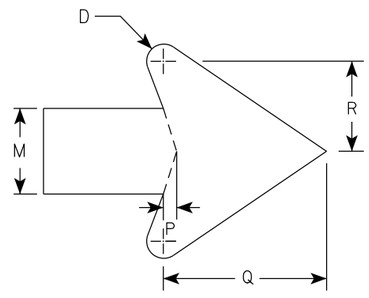
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 222 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	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 7/8	2 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 7/8	2 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	2 1/2						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	3 3/8						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	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

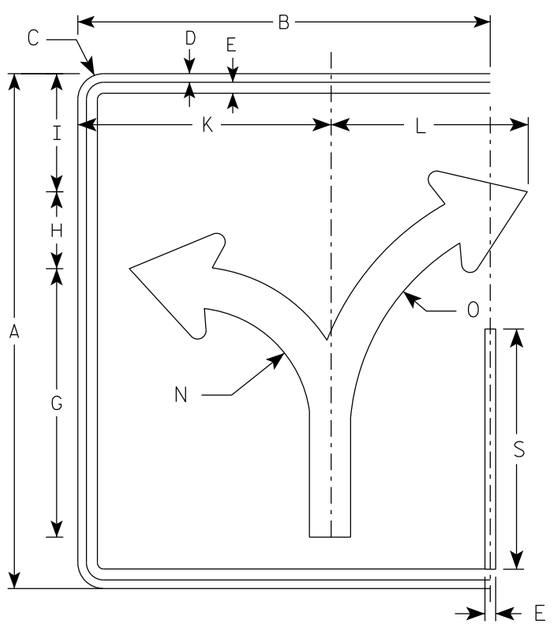
DATE 2/14/23 PLATE NO. R3-8.2

PROJECT NO:

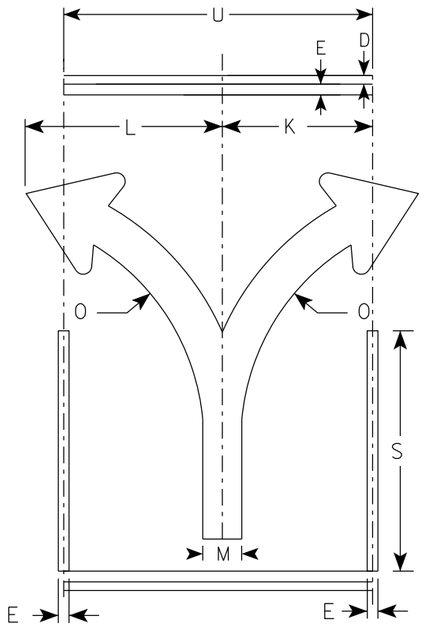
SHEET NO: 223 E

NOTES

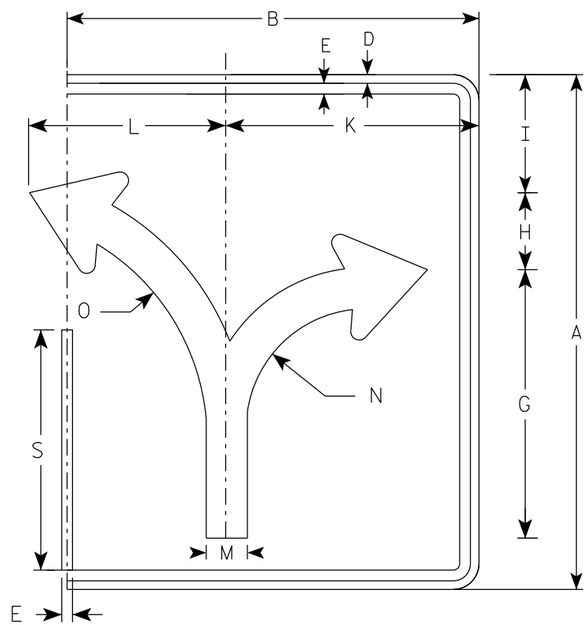
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



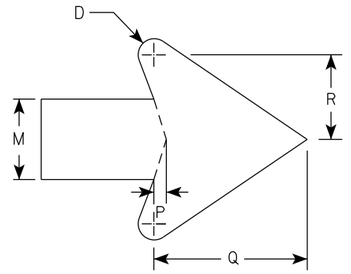
(C)



(C)



(C)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	6 7/8		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 5/8	4 1/2	6 7/8		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
3	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 7/8	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 7/8	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		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	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		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

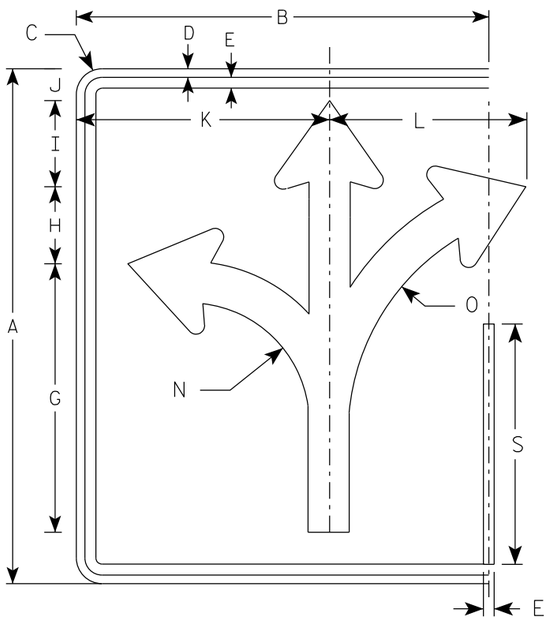
APPROVED Matthew R Rauch
for State Traffic Engineer

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

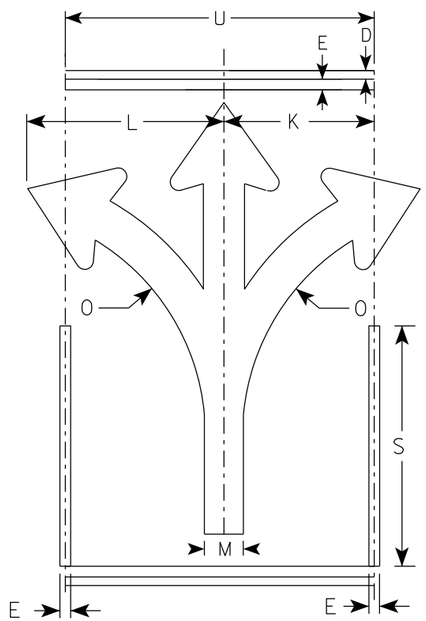
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 224 | E

NOTES

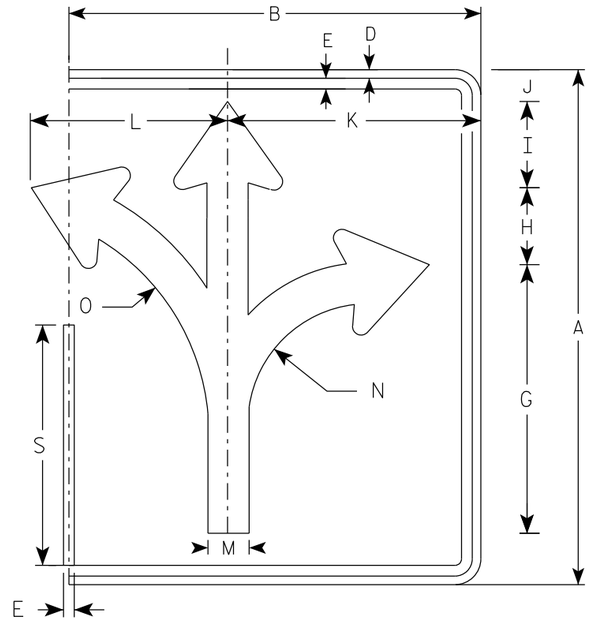
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



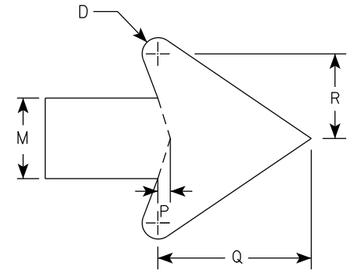
(D)



(D)



(D)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	5	1 7/8	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 5/8	4 1/2	5	1 7/8	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
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 7/8	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 7/8	7 1/4	7 7/8	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 7/8	7 1/4	7 7/8	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

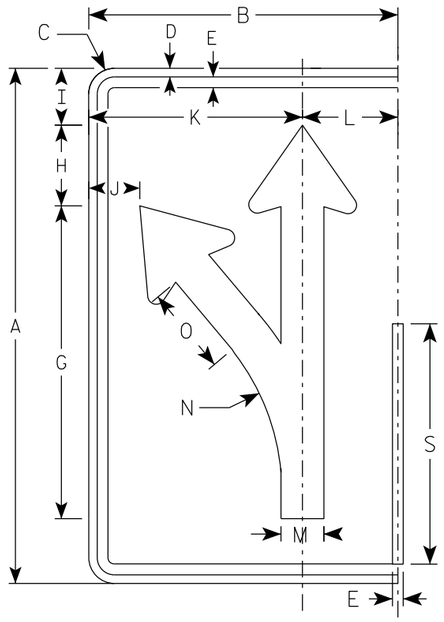
APPROVED Matthew R Rauch
for State Traffic Engineer

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

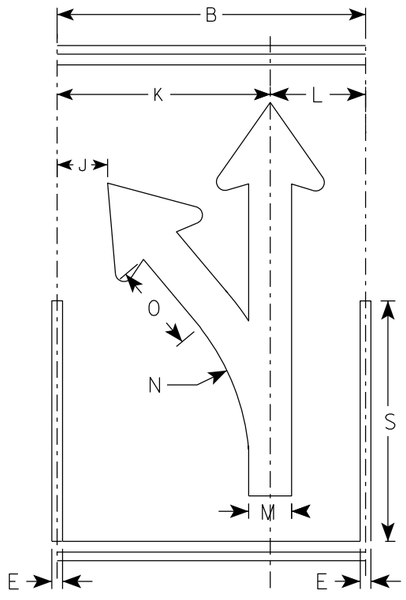
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 225 | E

NOTES

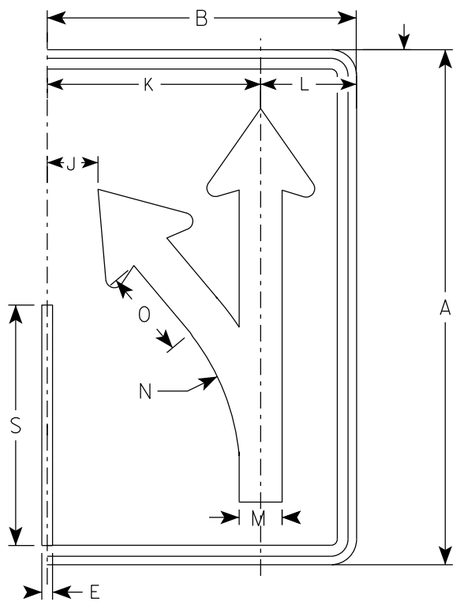
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



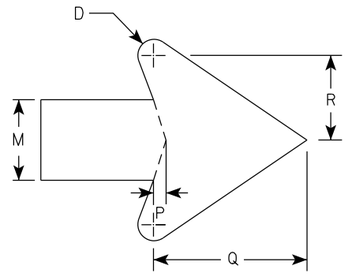
(E)



(E)



(E)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	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 5/8	4	4 7/8	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

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

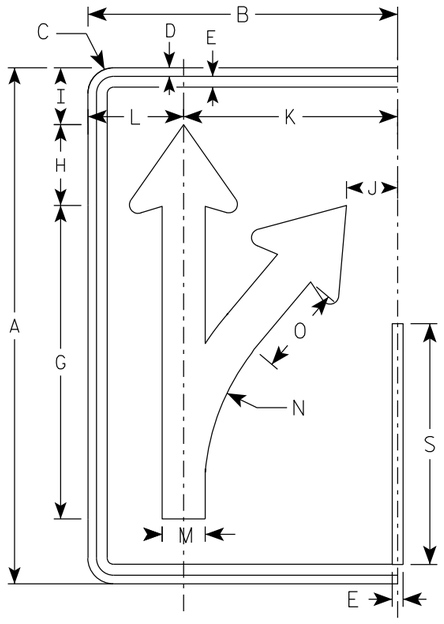
APPROVED Matthew R Rauch
for State Traffic Engineer

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

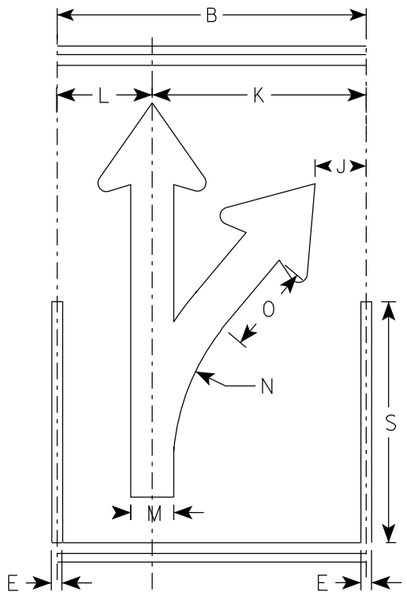
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 226 | E

NOTES

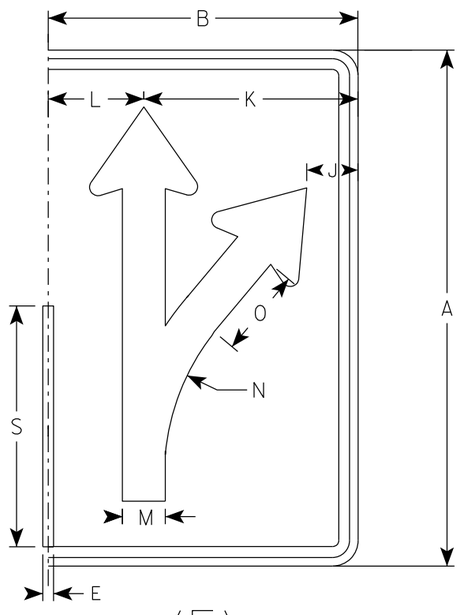
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



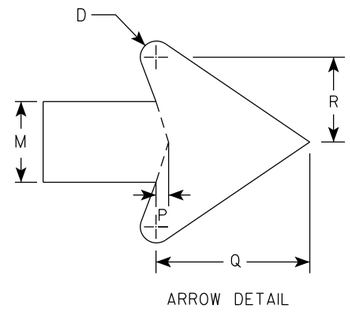
(F)



(F)



(F)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	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 5/8	4	4 7/8	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

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

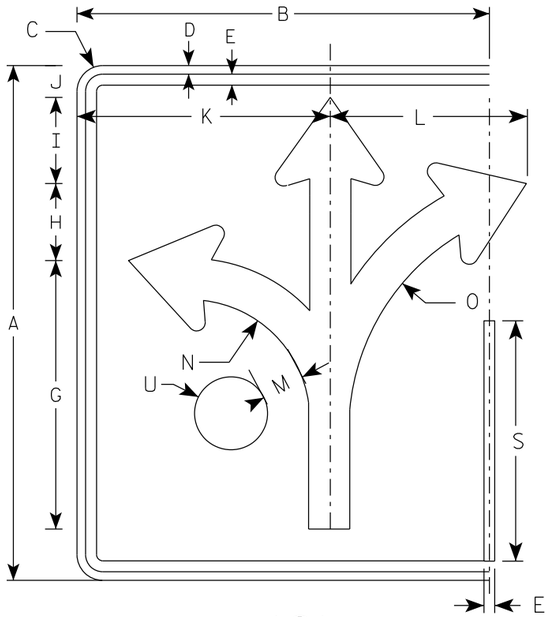
APPROVED Matthew R Rauch
For State Traffic Engineer

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

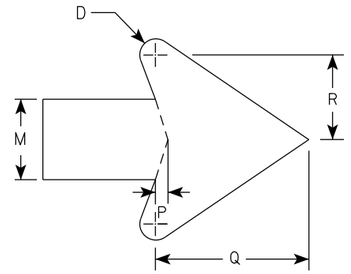
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 227 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	5	1 7/8	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
2M	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	5	1 7/8	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	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 7/8	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 7/8	7 1/4	7 7/8	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 7/8	7 1/4	7 7/8	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

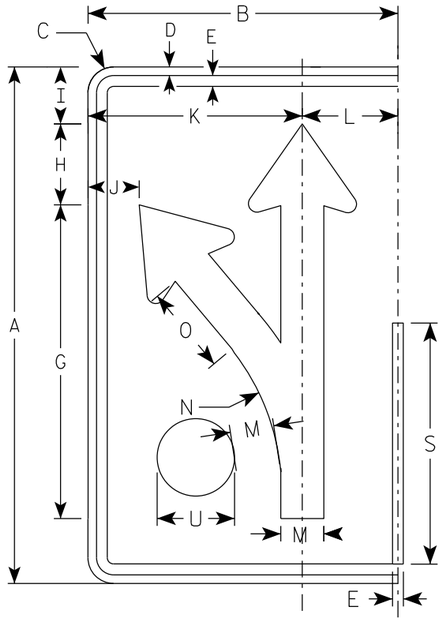
APPROVED Matthew R Rauch
for State Traffic Engineer

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

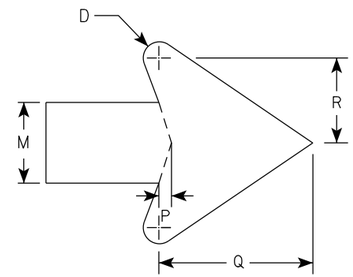
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 228	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	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 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		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	4 1/4	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

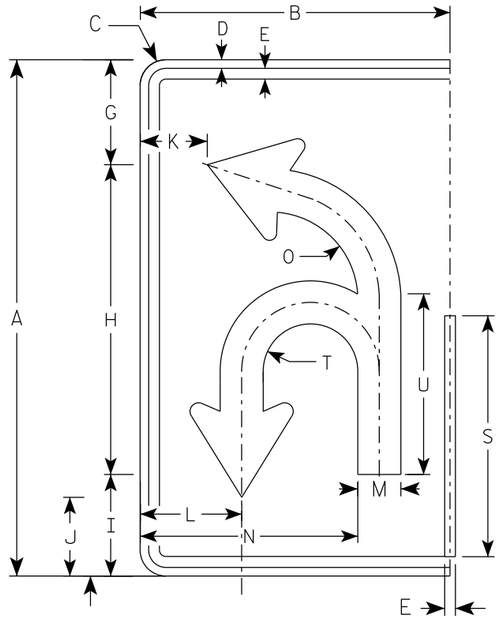
APPROVED Matthew R Rauch
for State Traffic Engineer

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

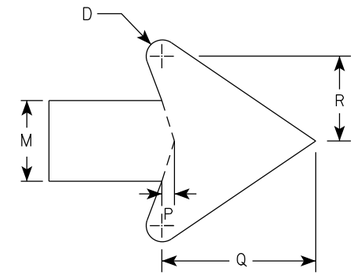
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 229 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	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
2M	30	18	1 1/2	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	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 7/8	21 5/8	7 1/8	5 1/2	5 7/8	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 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	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 7/8	10	4	20 7/8	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 Matthew R Rauch
for State Traffic Engineer

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

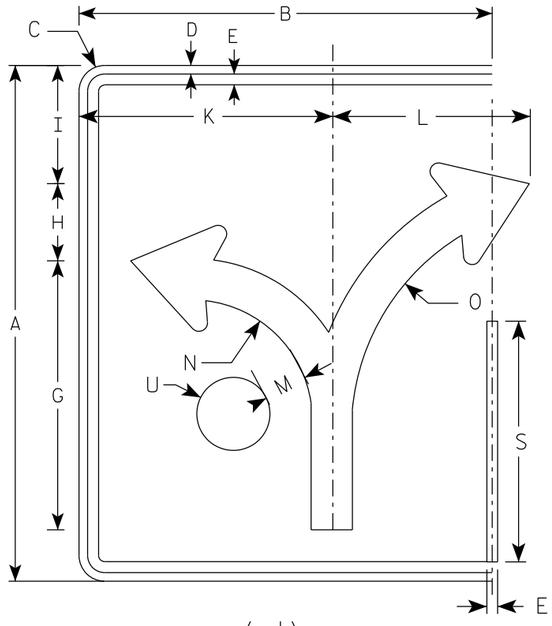
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 230 | E

7

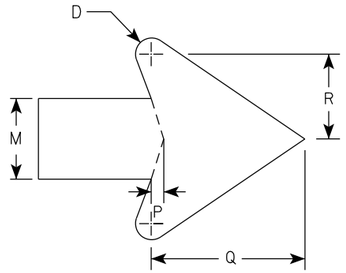
7

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(J)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	6 7/8		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
2M	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	6 7/8		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	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 7/8	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 7/8	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 7/8	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

STANDARD SIGN
R3-8 (J) Arrow

WISCONSIN DEPT OF TRANSPORTATION

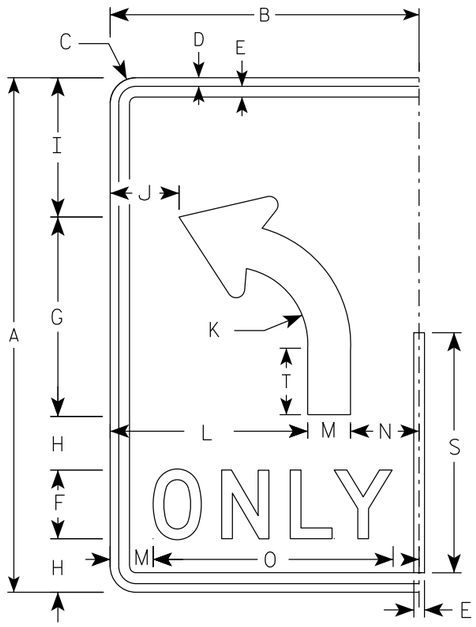
APPROVED Matthew R Rauch
for State Traffic Engineer

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

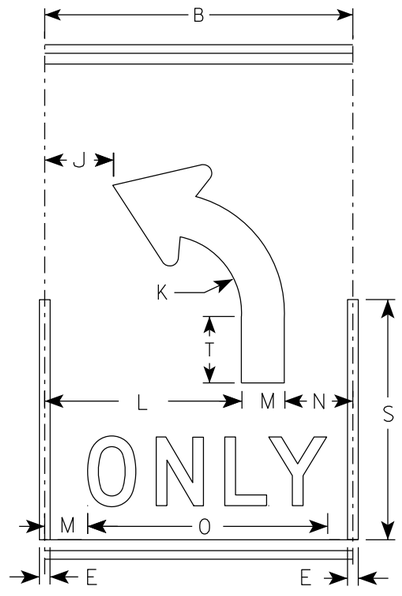
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 231 | E

NOTES

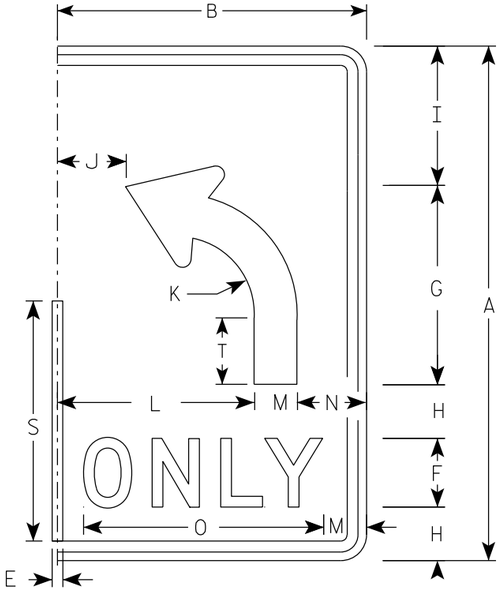
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



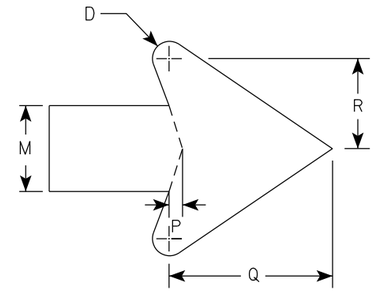
(L)



(L)



(L)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	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 7/8							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 7/8							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 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 232 E

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 14-FEB 2023 3:02 PLOT BY : mscj9h PLOT NAME :

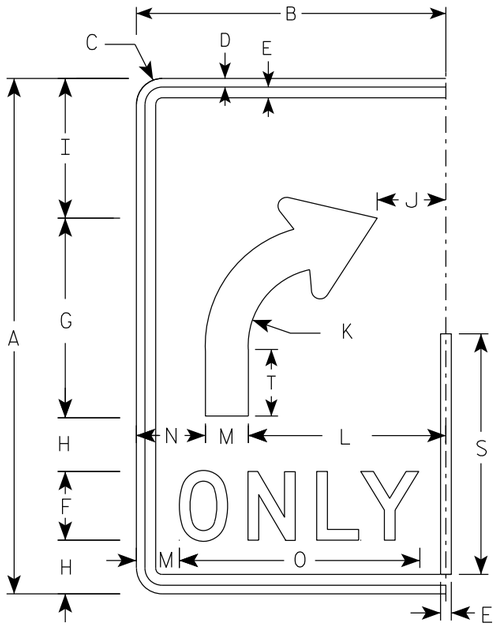
WISDOT/CADDS SHEET 42

7

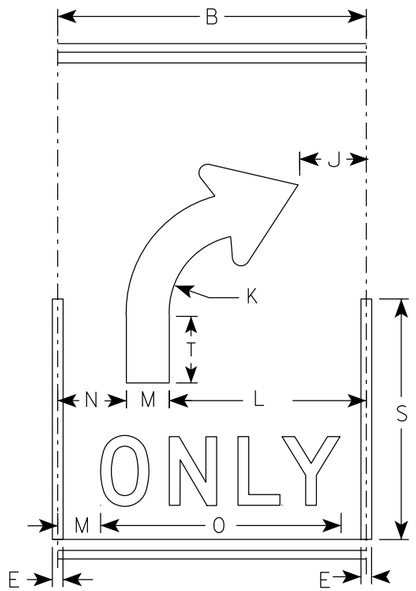
7

NOTES

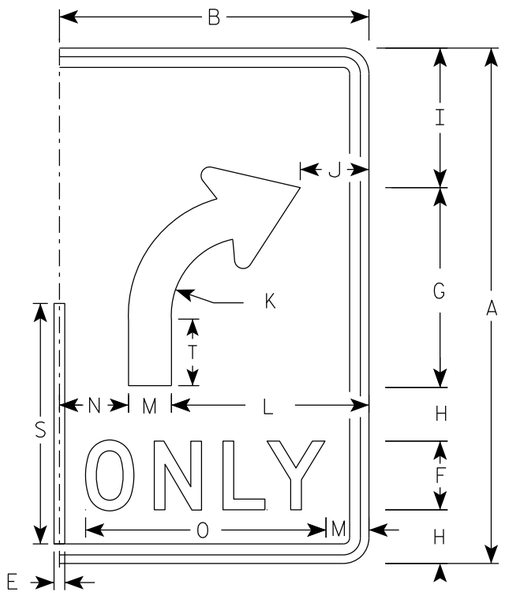
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



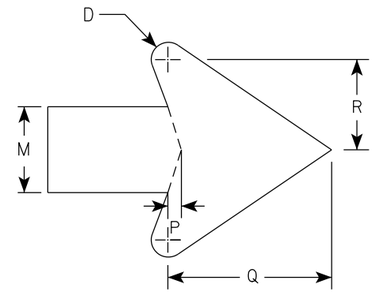
(R)



(R)



(R)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	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 7/8							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 7/8							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

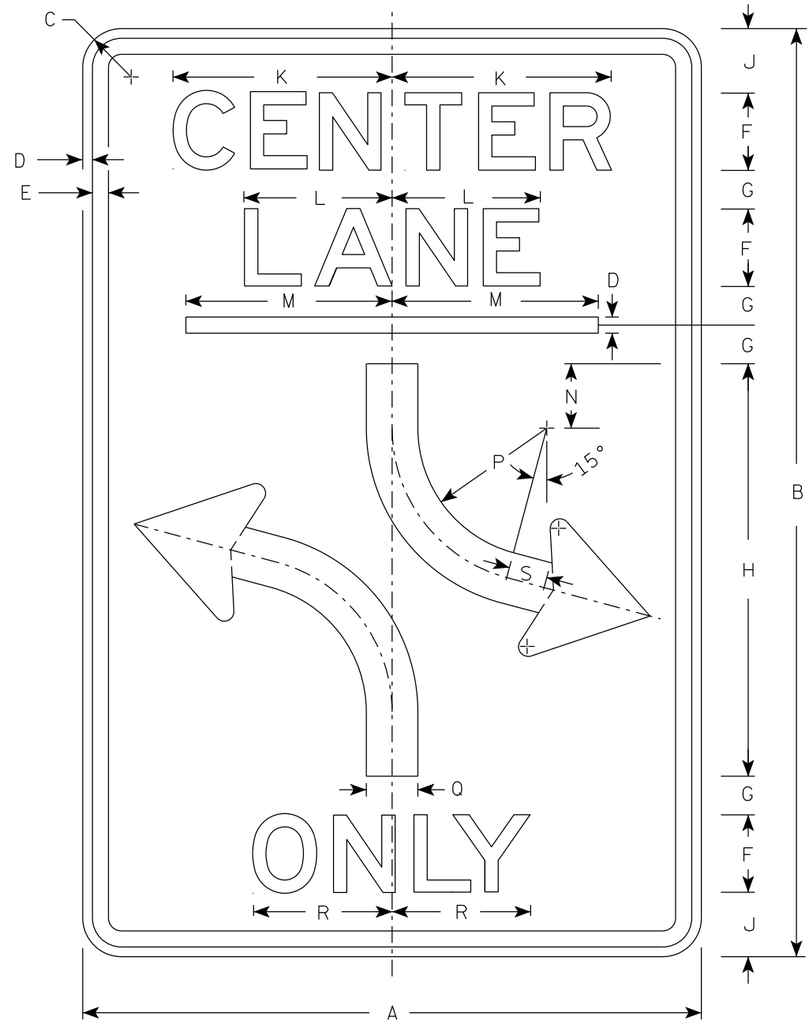
APPROVED Matthew R Rauch

for State Traffic Engineer

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

PROJECT NO:

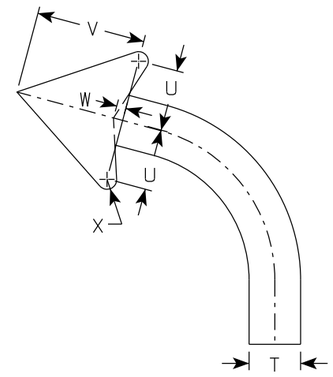
SHEET NO: 233 E



R3-9B

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 ½	⅜	½	3	1 ½	16		2 ½	8 ½	5 ¾	8	2 ½		6	2	5 ⅛	1 ½		2 ⅜	4 ⅜	⅜				6.0
2M	24	36	1 ½	⅜	½	3	1 ½	16		2 ½	8 ½	5 ¾	8	2 ½		6	2	5 ⅛	1 ½		2 ⅜	4 ⅜	⅜				6.0
3	36	48	1 ⅞	⅝	⅞	5	1 ½	20		3 ½	14 ⅛	9 ½	12	3		4	3	9 ⅞	2		3 ½	6 ⅛	½				12.0
4																											
5																											

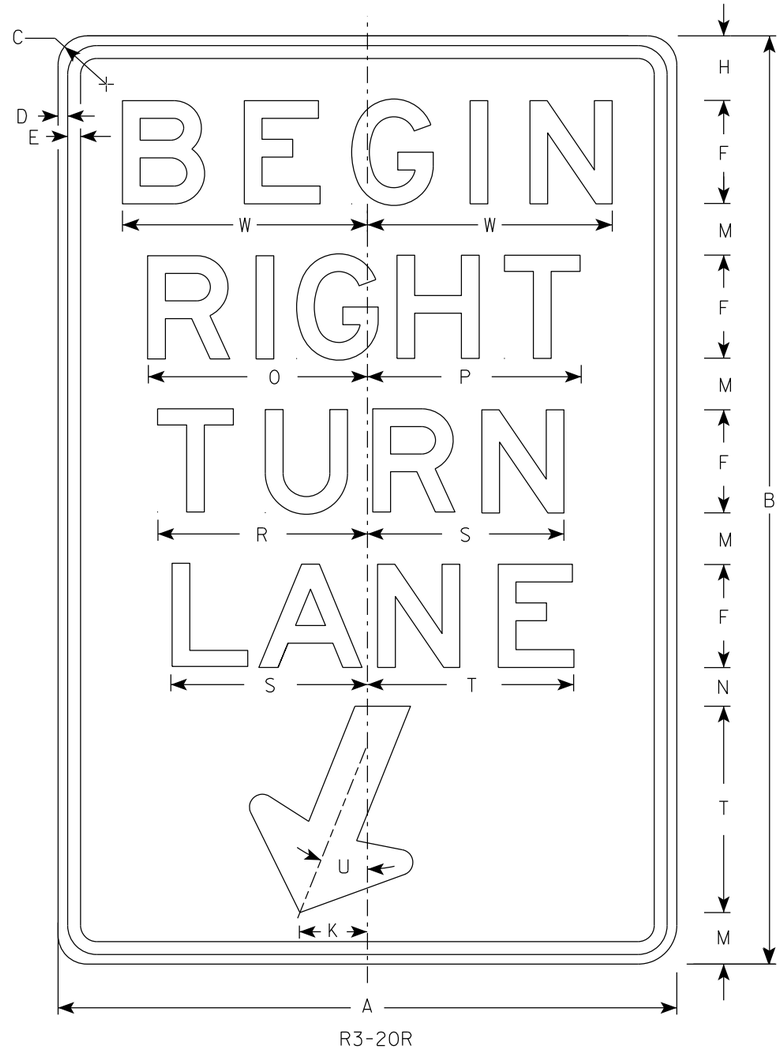
STANDARD SIGN
R3-9B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/15/23 PLATE NO. R3-9B.6

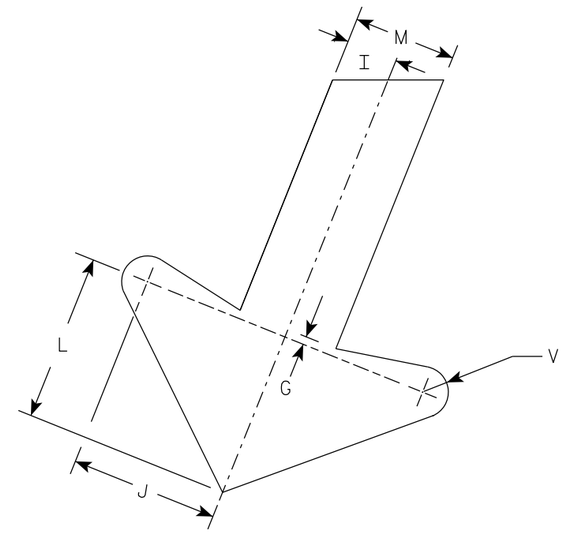
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 234 | E



R3-20R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 7/8	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

STANDARD SIGN
R3-20R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

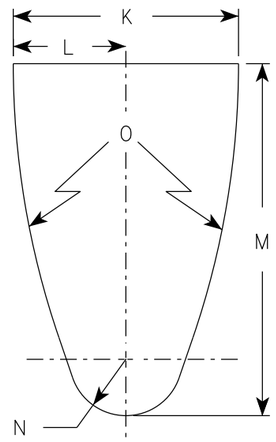
DATE 2/23/23 PLATE NO. R3-20R.7

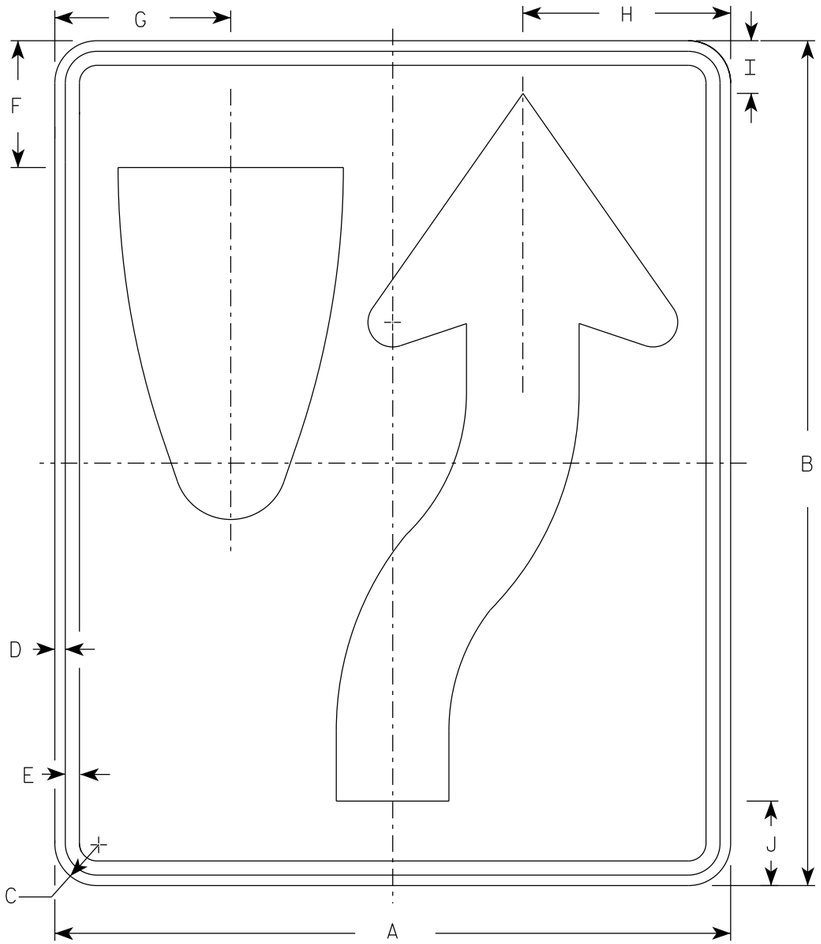
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 235 | E

NOTES

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.

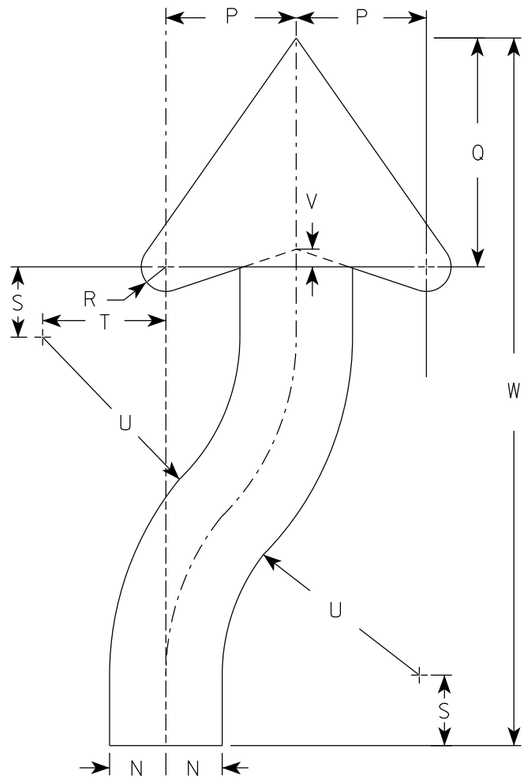
DIVIDER DETAIL





R4-7

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	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 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/2	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	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 7/8	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 7/8	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 7/8	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	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	5	8 3/4	18	1 1/4	50 1/4				20.0

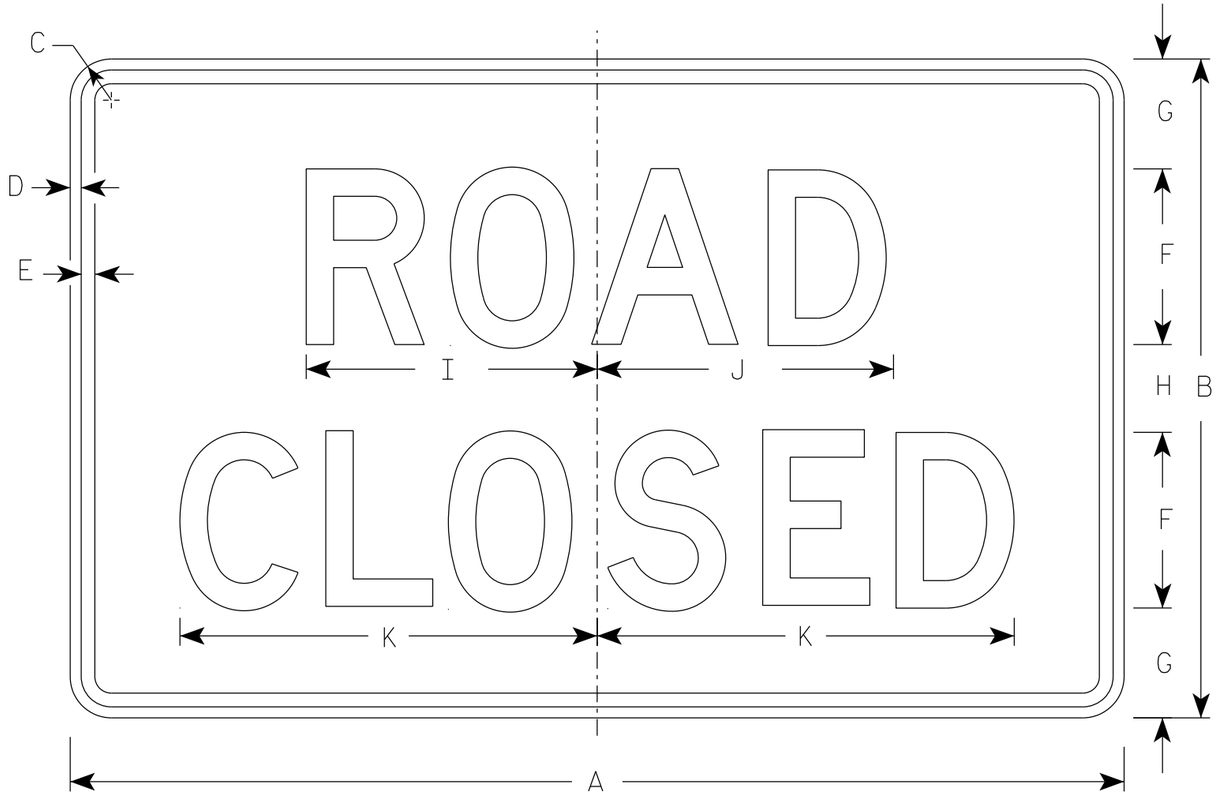
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/17/23 PLATE NO. R4-7.9

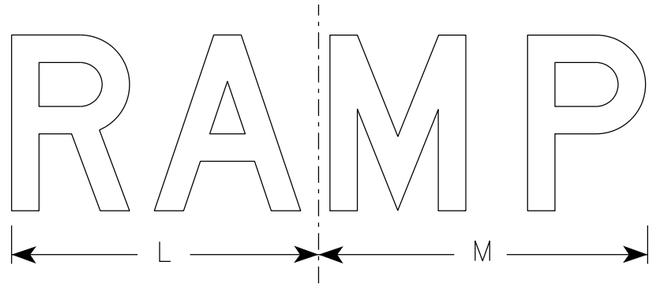
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 236	E



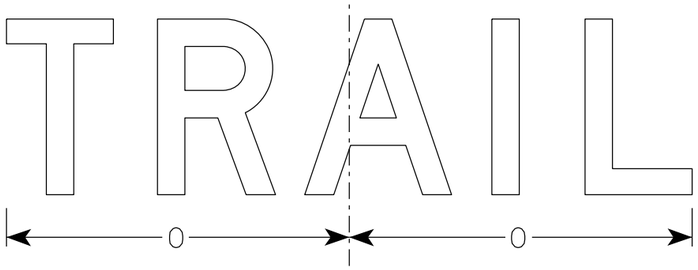
R11-2

NOTES

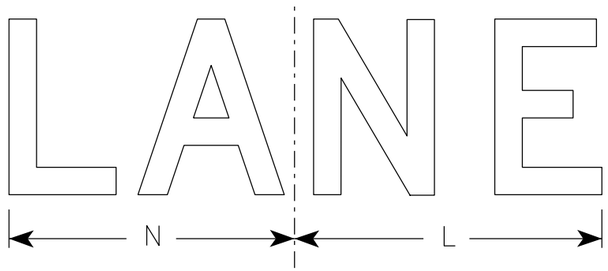
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

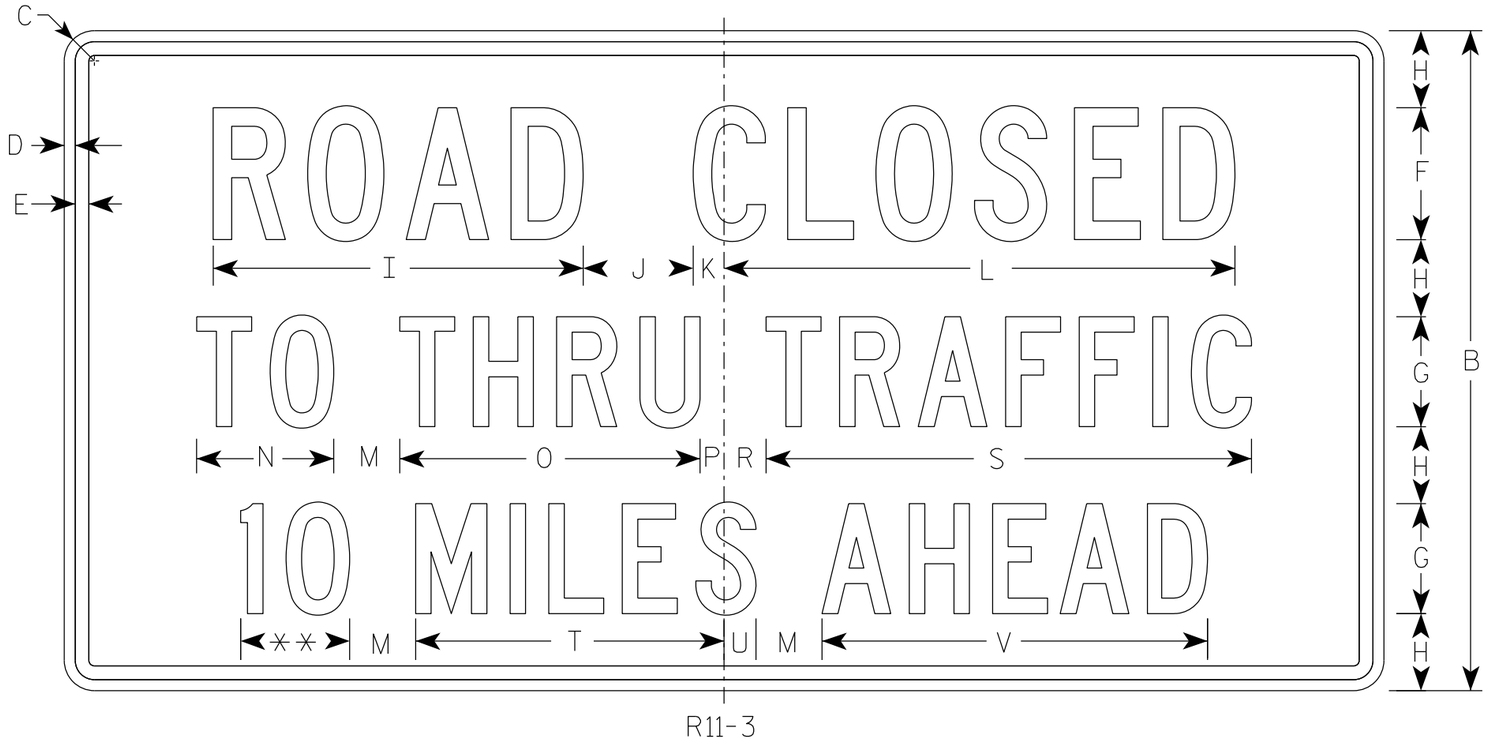
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-2.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 237 E

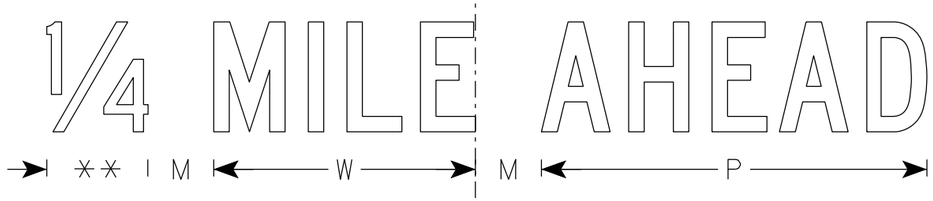
NOTES

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



R11-3

** See Note 5



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	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
2S	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

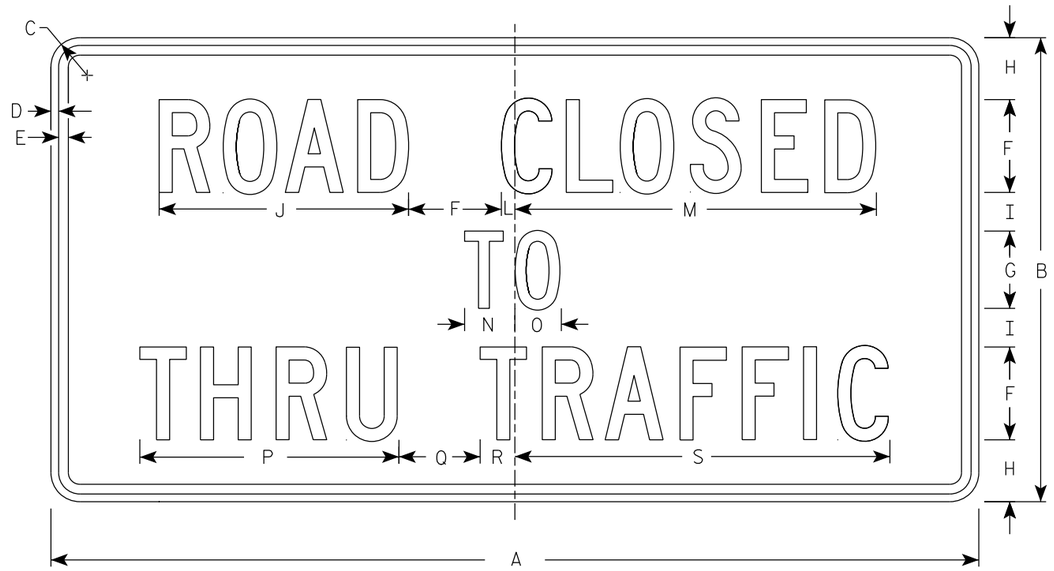
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-3.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 238	E



R11-4

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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 7/8	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 7/8	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																											

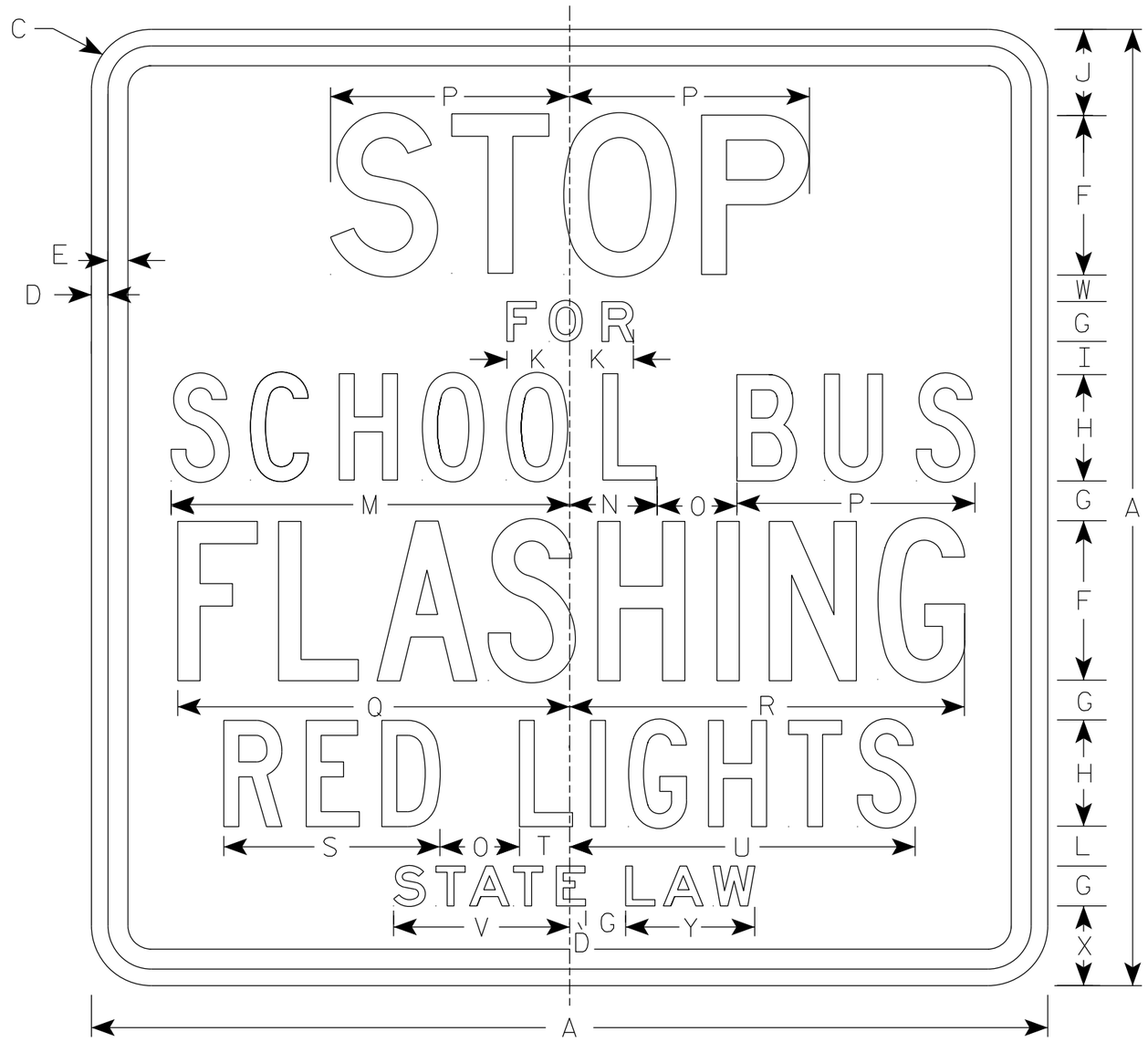
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-4.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 239 | E



R59-51

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series D
   Lines 2 & 6 are Series E
   Line 3, 4 & 5 are Series C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		2 1/4	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
2M	36		2 1/4	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
3	48		1 7/8	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
4	48		1 7/8	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
5																											

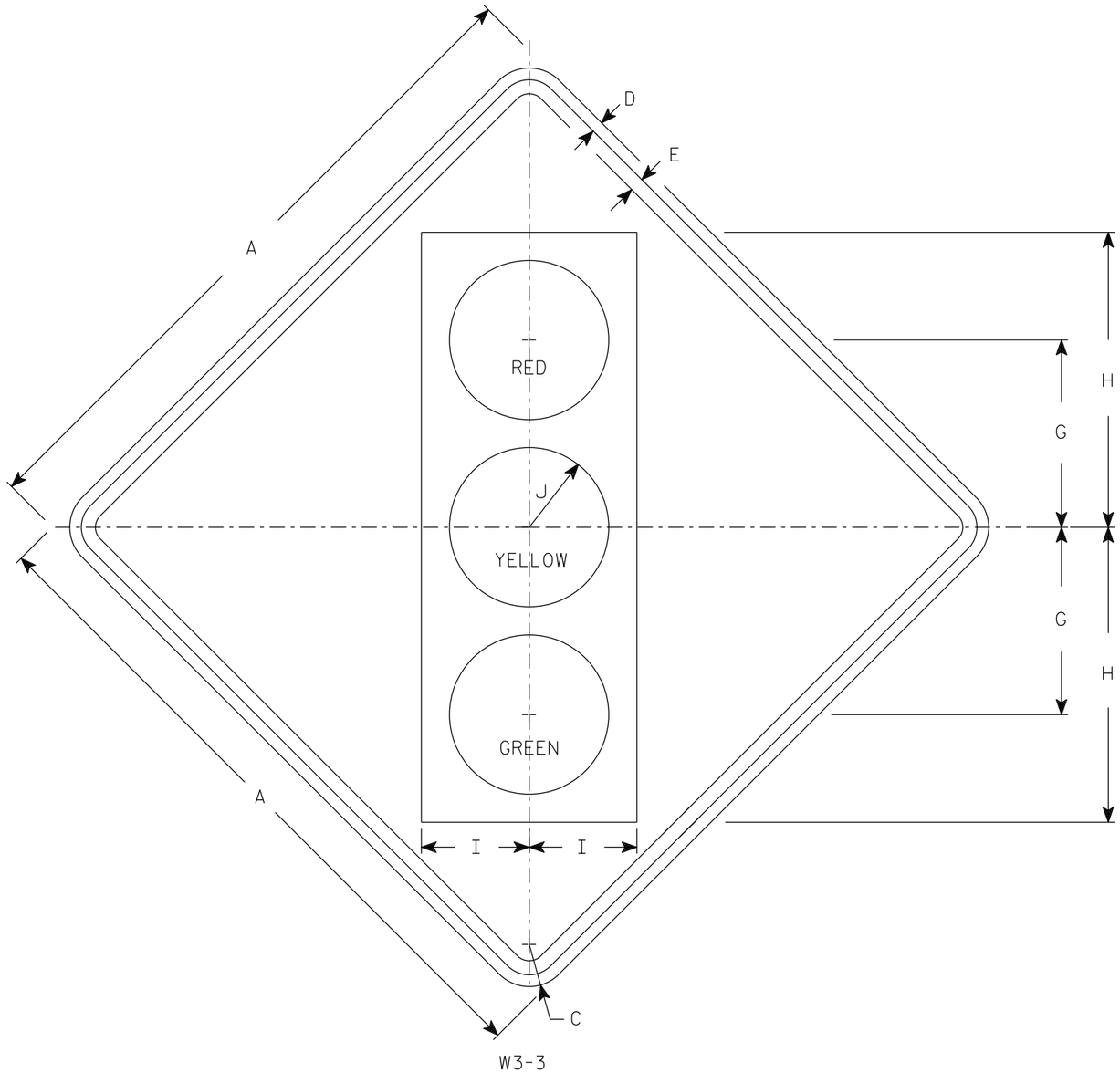
STANDARD SIGN
R59-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/28/24 PLATE NO. R59-51.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 240 | E



W3-3

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - See Note 3
3. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		2 1/4	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		2 1/4	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		2 1/4	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		3	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		3	3/4	1		12 1/2	20	7 1/2	5																	16.0

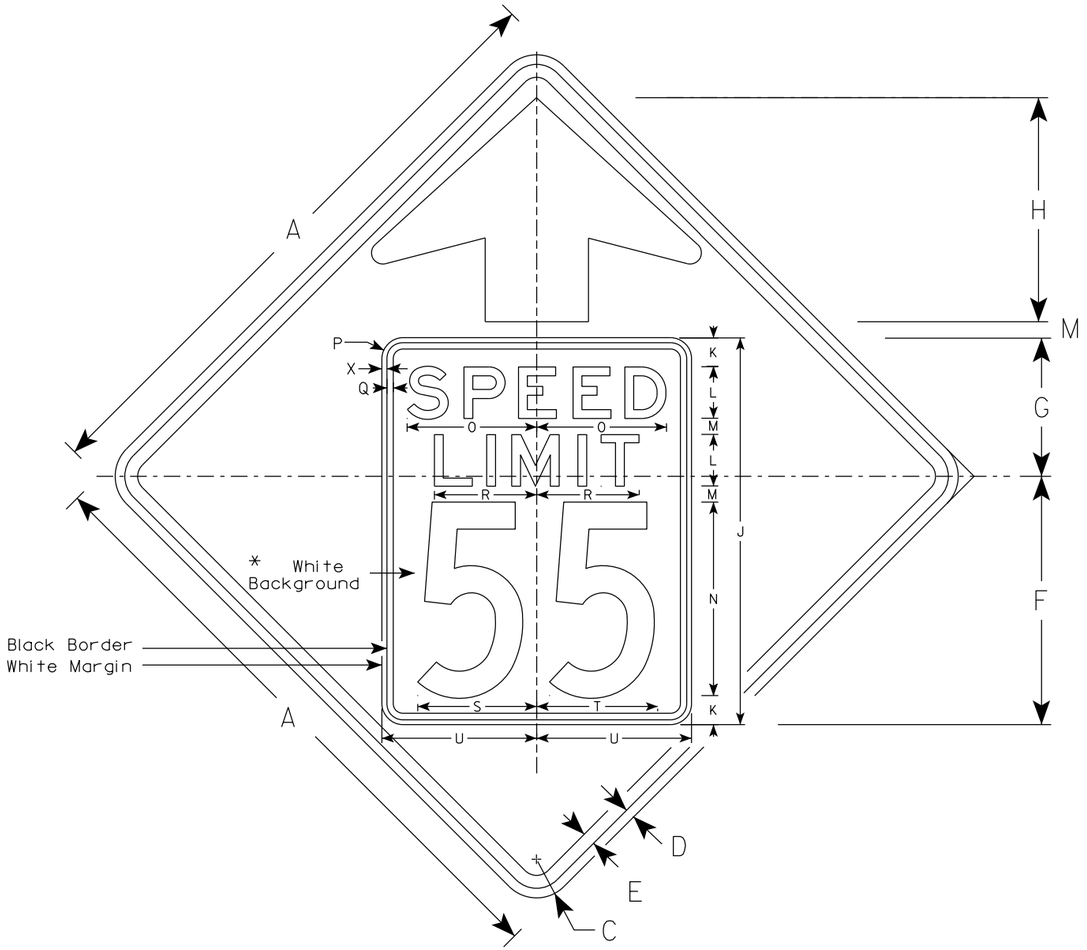
STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/2023 PLATE NO. W3-3.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 241	E



W3-5

NOTES

1. Sign is Type II - See Note 2 for Sheeting Type
2. Color: *
   Background - Yellow* (Type F Reflective)
   Message - Black
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background with black message (Type SH Reflective)

ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		2 1/4	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN

W3-5

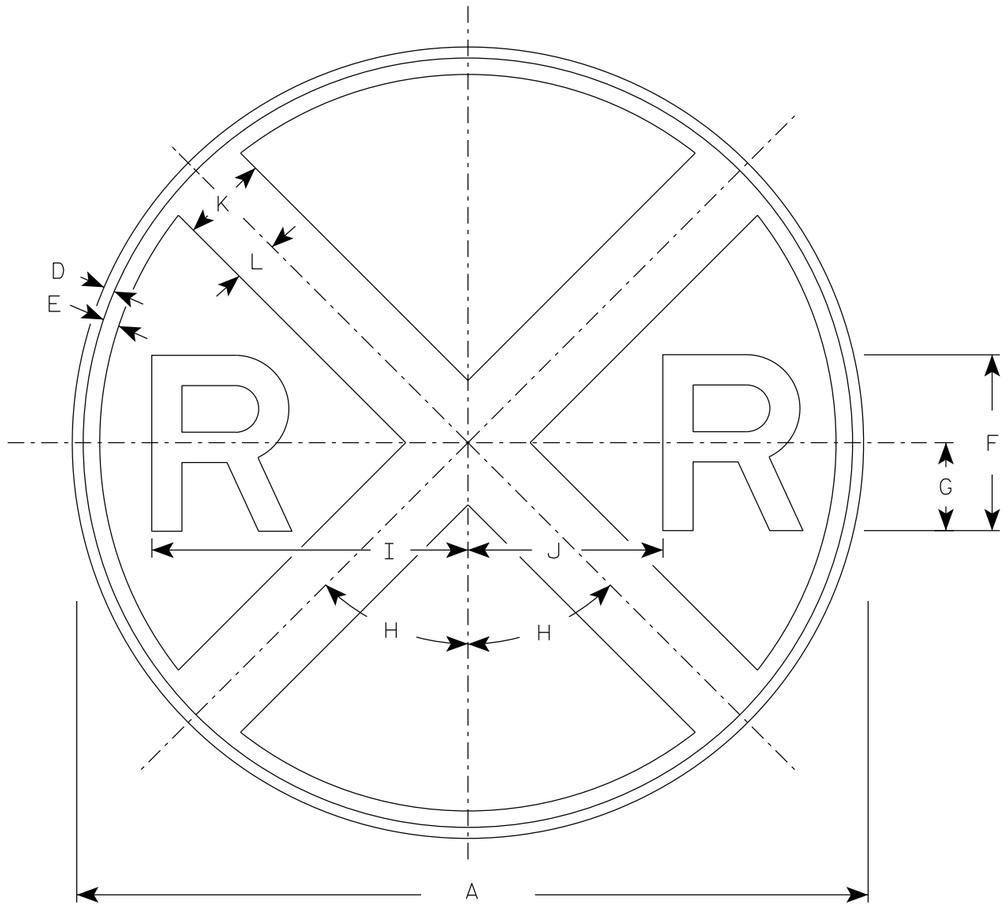
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/30/2023 PLATE NO. W3-5.7

PROJECT NO:

SHEET NO: 242 E



W10-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30			3/8	5/8	7	3 1/2	45°	12 3/8	7 1/8	3	1 1/2															4.91
2S	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
2M	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
3	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
4	48			3/4	1 1/4	10	5	45°	18 3/8	11 5/8	5	2 1/2															12.57
5																											

STANDARD SIGN
W10-1

WISCONSIN DEPT OF TRANSPORTATION

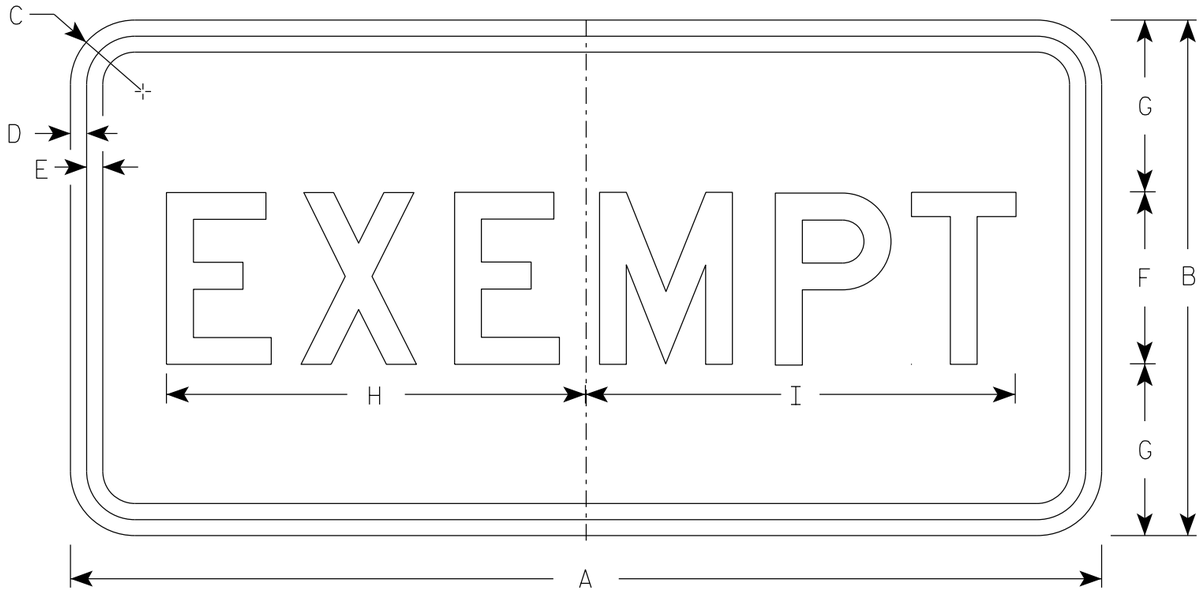
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/27/24 PLATE NO. W10-1.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 243 E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - See Note 4
   Message - Black
3. Message Series - D
4. Background - R15-3 is White Type H Reflective
   W10-1A is Yellow.



R15-3
and
W10-1A

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	4	4	9 3/4	10																		2
2M	24	12	1 1/2	3/8	3/8	4	4	9 3/4	10																		2
3																											
4																											
5																											

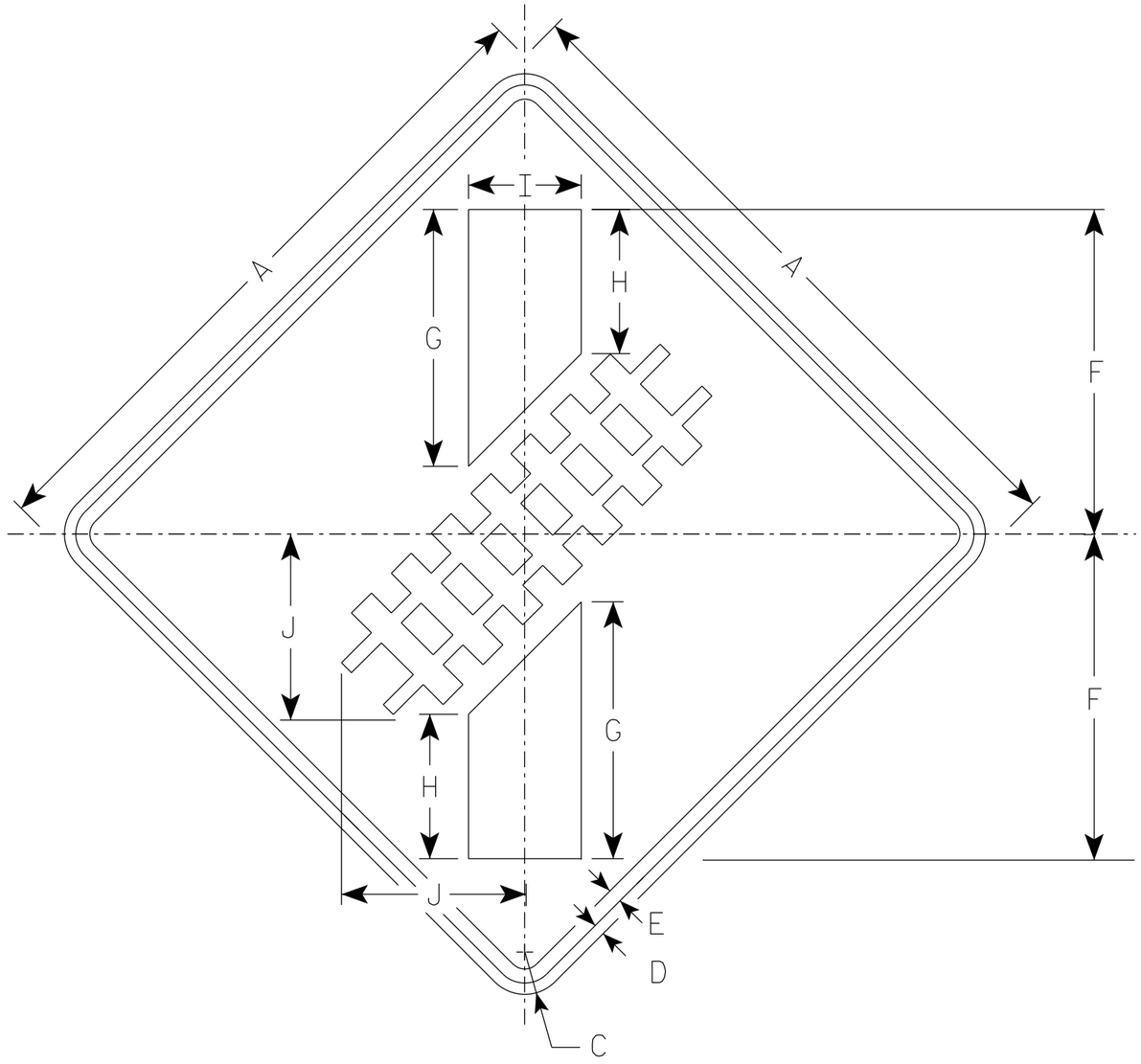
STANDARD SIGN
R15-3 & W10-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 11/13/2023 PLATE NO. R15-3.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 244 | E

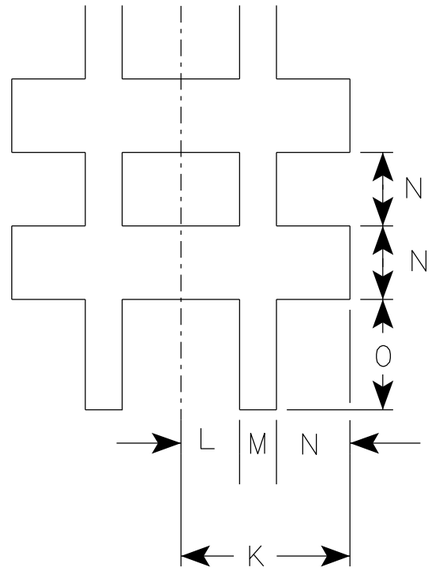


W10-12

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W10-12L same as W10-12R except symbol is reversed.

BLOW UP OF DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		2 1/4	1/2	5/8	17 3/8	13 3/4	7 3/4	6	9 7/8	3 1/2	1 1/4	3/4	1 1/2	2 1/4												9
2M	36		2 1/4	1/2	5/8	17 3/8	13 3/4	7 3/4	6	9 7/8	3 1/2	1 1/4	3/4	1 1/2	2 1/4												9
3	48		3	3/4	1	23 1/8	18 1/4	10 1/4	8	13 1/4	4 1/2	1 1/2	1	2	3												16
4	48		3	3/4	1	23 1/8	18 1/4	10 1/4	8	13 1/4	4 1/2	1 1/2	1	2	3												16
5	48		3	3/4	1	23 1/8	18 1/4	10 1/4	8	13 1/4	4 1/2	1 1/2	1	2	3												16

STANDARD SIGN
W10-12

WISCONSIN DEPT OF TRANSPORTATION

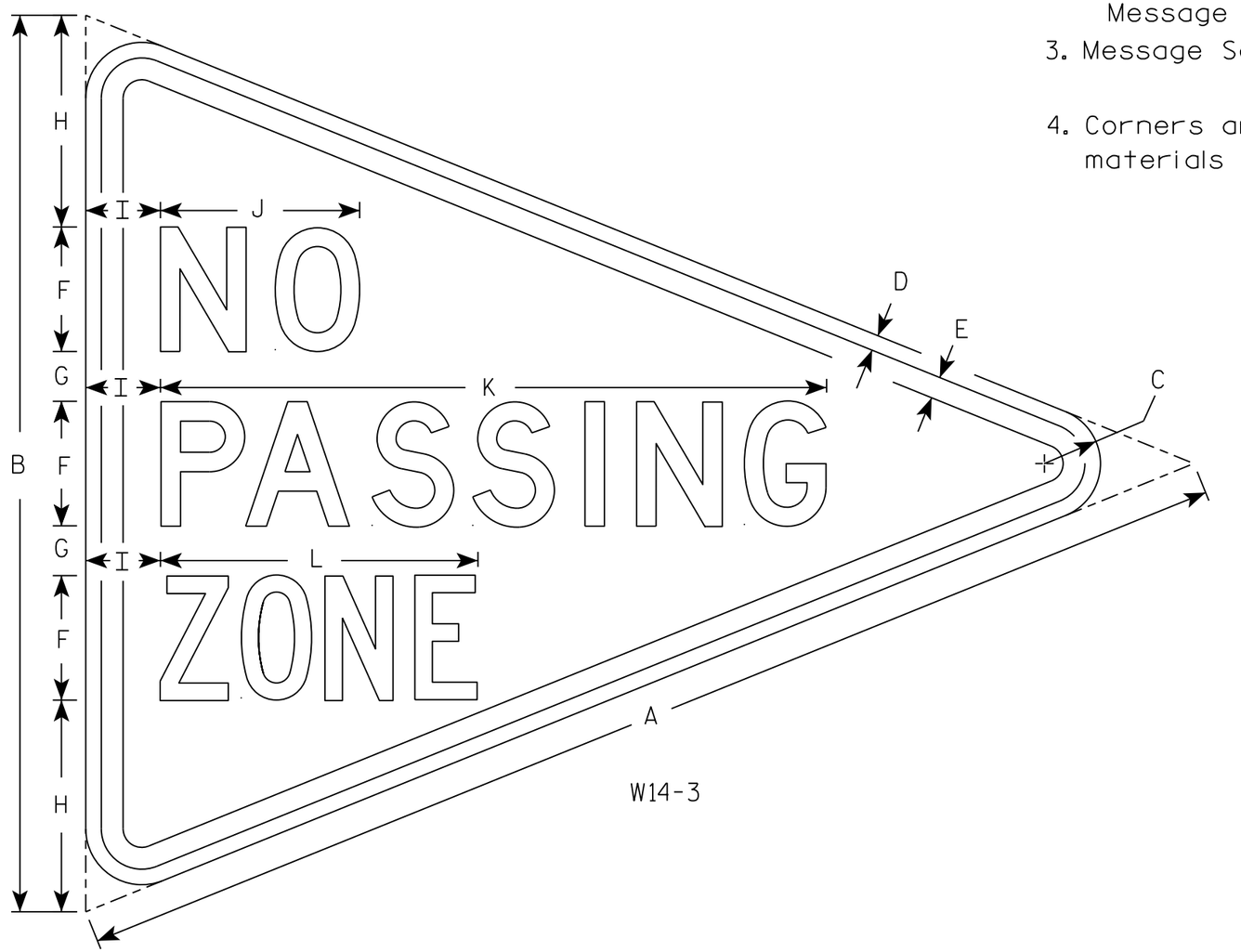
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/14/2023 PLATE NO. W10-12.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

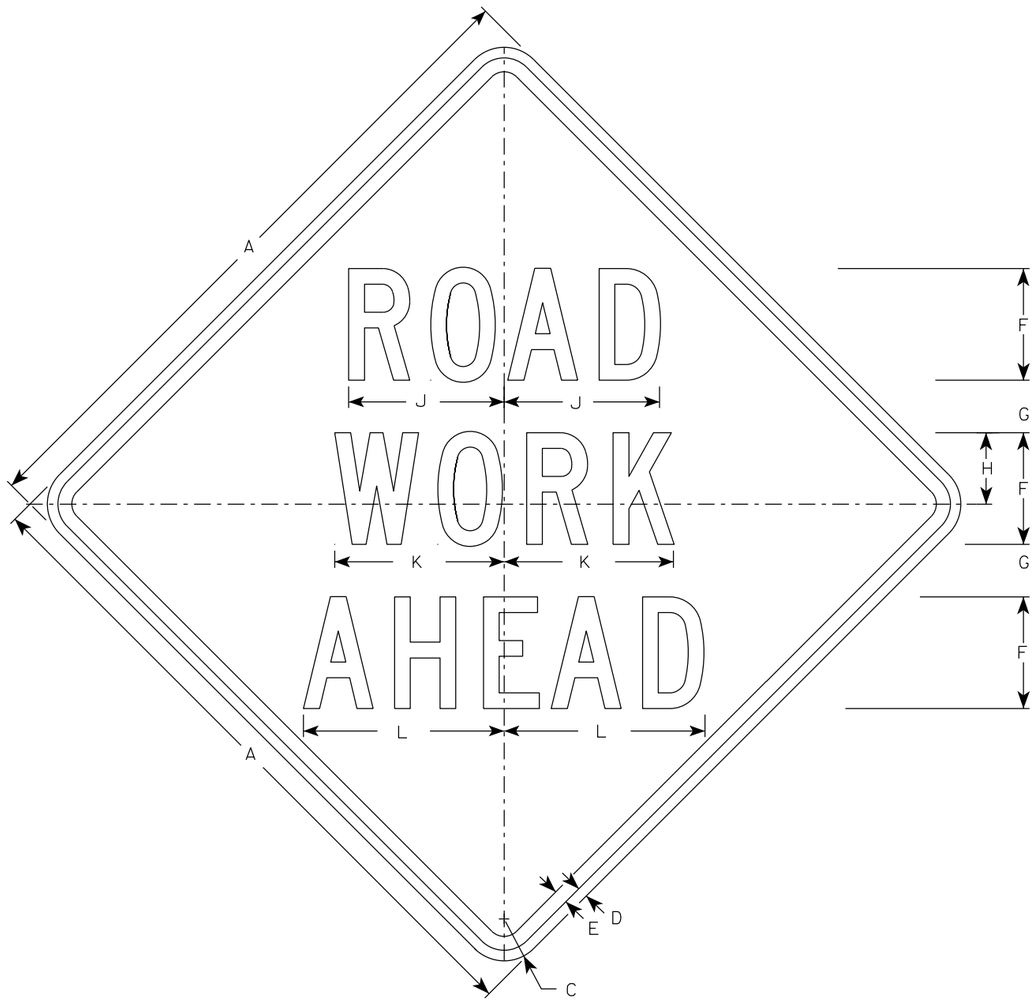
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 246 | E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W143.DGN PLOT DATE : 21-MAR-2017 08:48 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 5.650195:1.000000

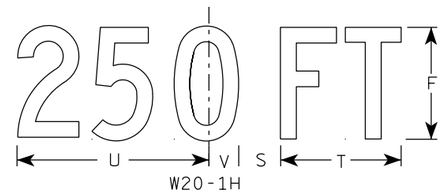
WISDOT/CADDS SHEET 42

7

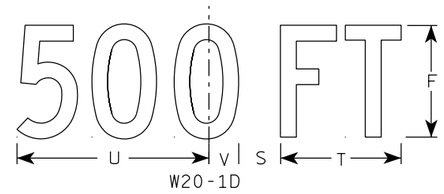
7



W20-1A



W20-1H



W20-1D



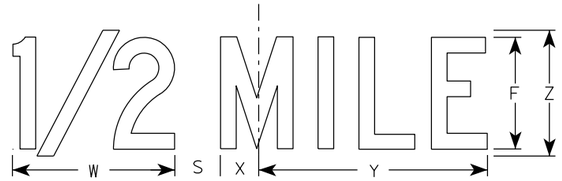
W20-1C



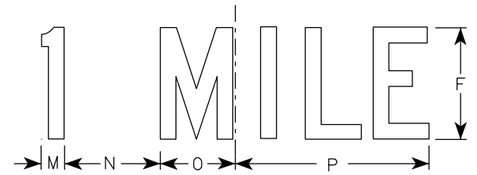
W20-1B

NOTES

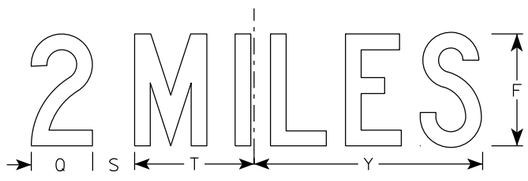
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	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 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	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 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	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 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	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 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	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 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	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 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	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

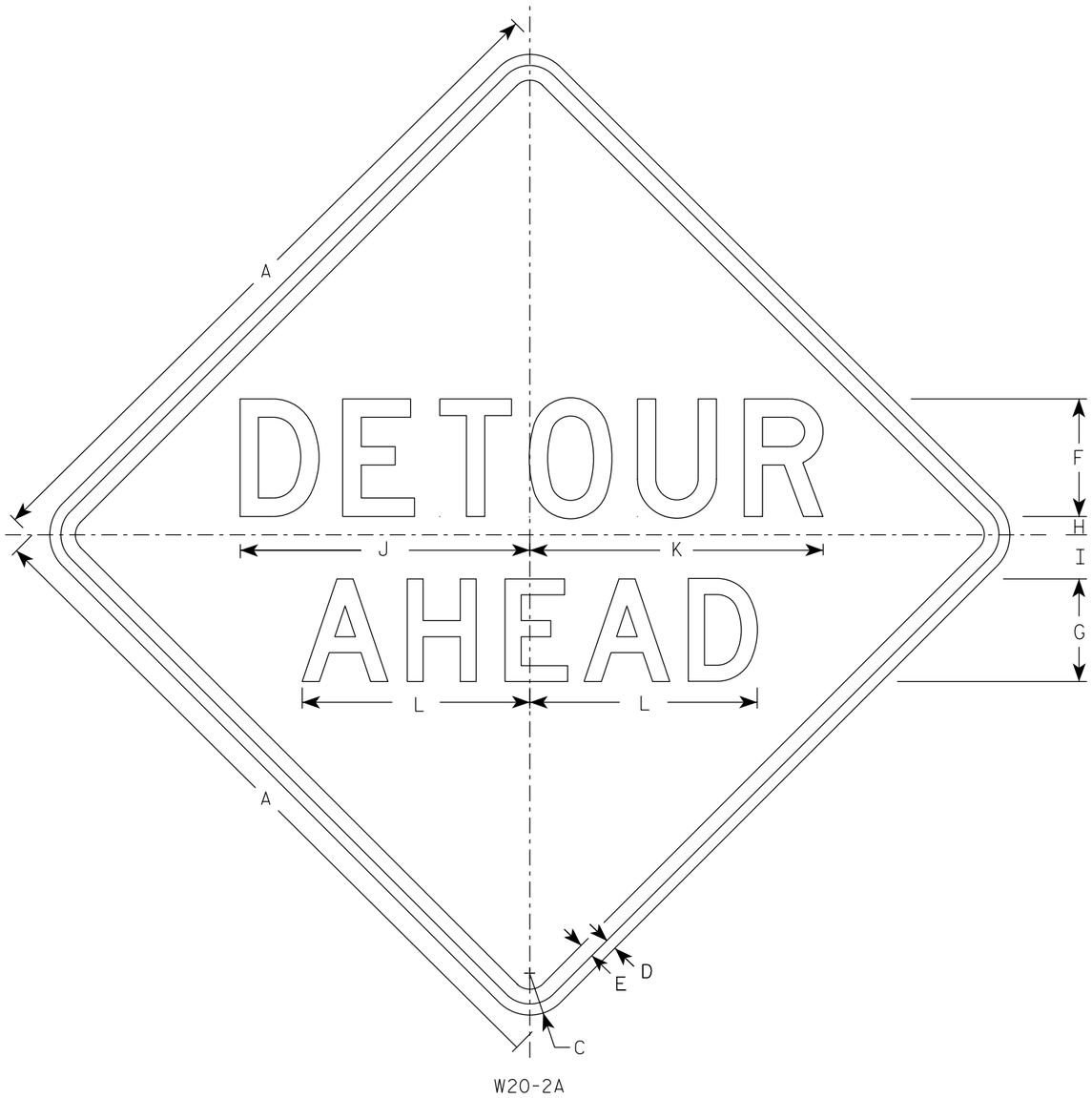
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

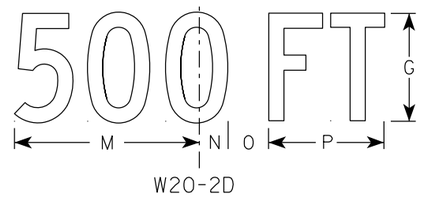
DATE 1/10/2024 PLATE NO. W20-1.12

PROJECT NO:

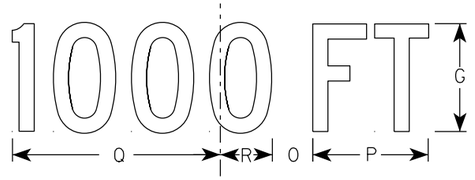
SHEET NO: 247 E



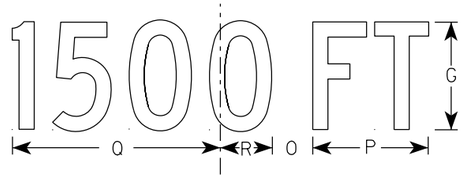
W20-2A



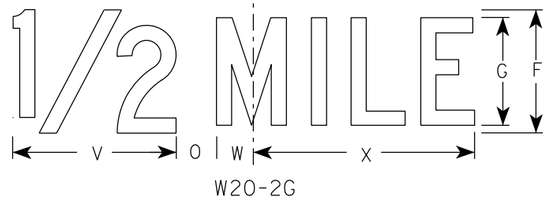
W20-2D



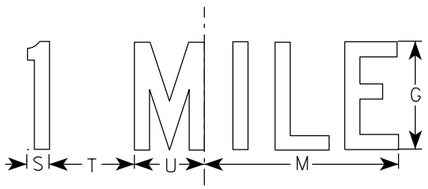
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	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 7/8	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
2S	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	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 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	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 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	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 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	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 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

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

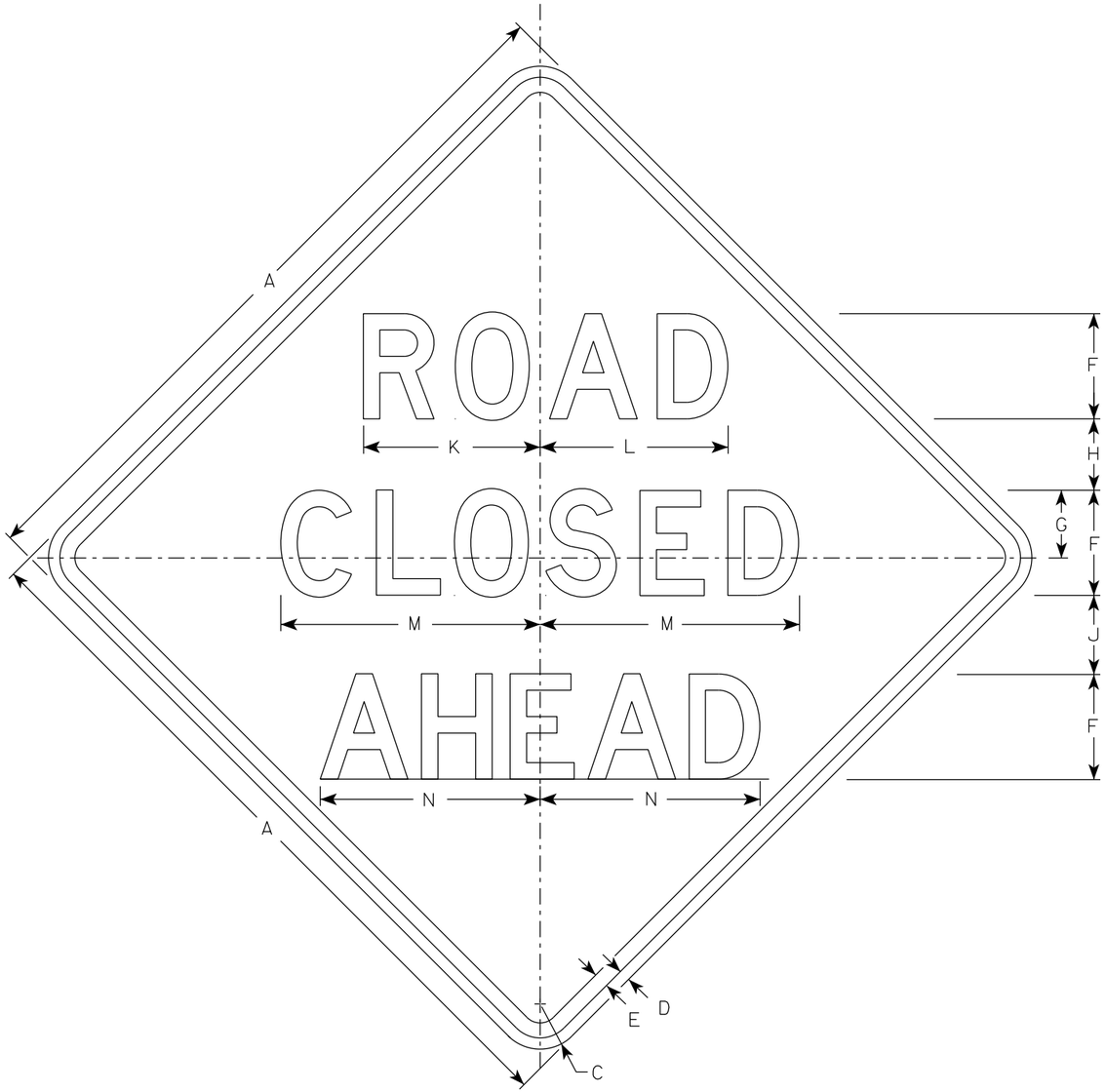
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

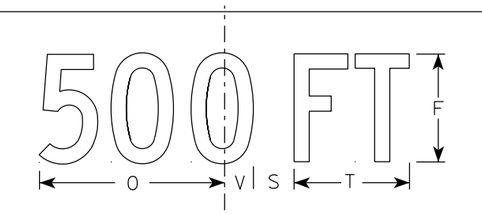
DATE 1/10/2024 PLATE NO. W20-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

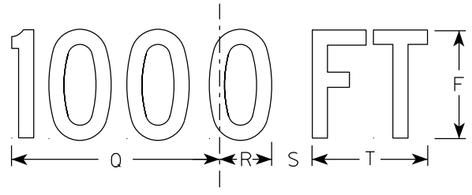
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W202.DGN PLOT DATE : 10-JAN 2024 11:36 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



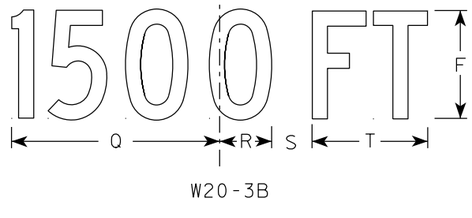
W20-3A



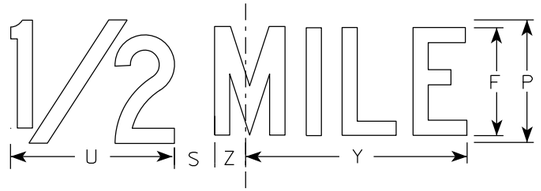
W20-3D



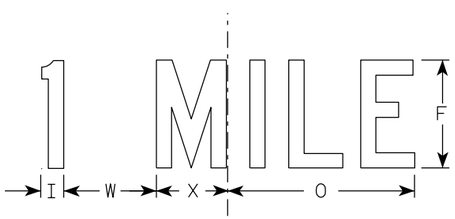
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	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 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	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 7/8	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 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	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 7/8	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 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	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 7/8	6	4 5/8	14 3/8	2 3/8	16.0

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

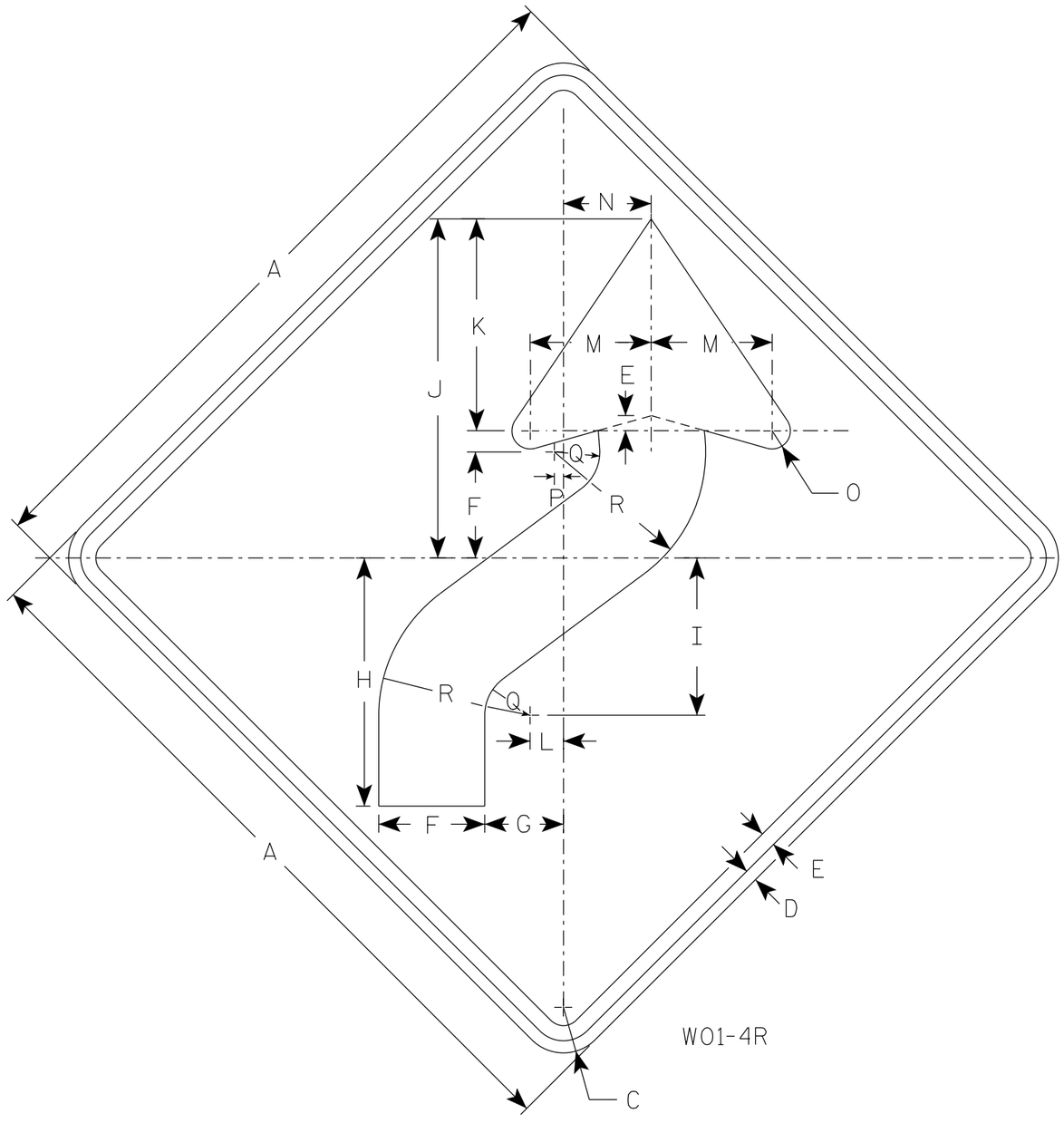
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W203.DGN PLOT DATE : 10-JAN 2024 12:02 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



W01-4R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

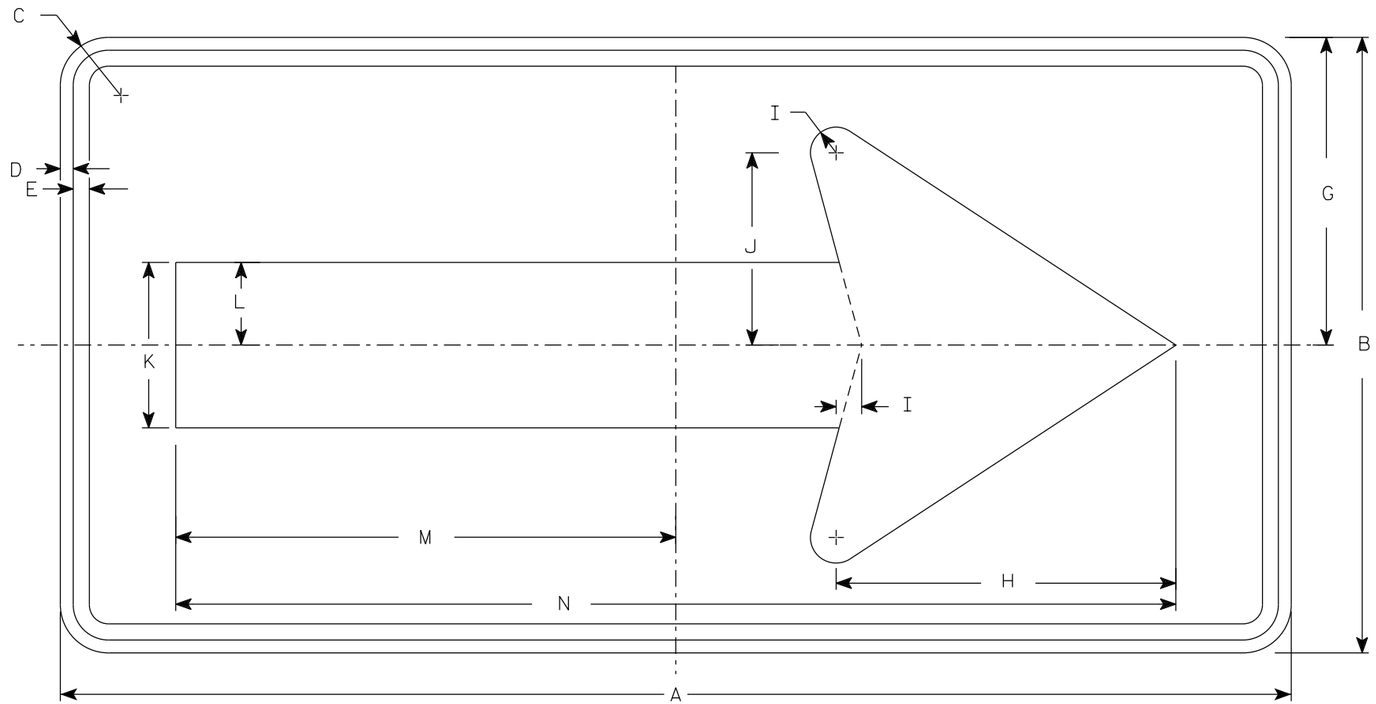
STANDARD SIGN
W01-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/24/2024 PLATE NO. W01-4.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 250 | E



WO1-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
WO1-6

WISCONSIN DEPT OF TRANSPORTATION

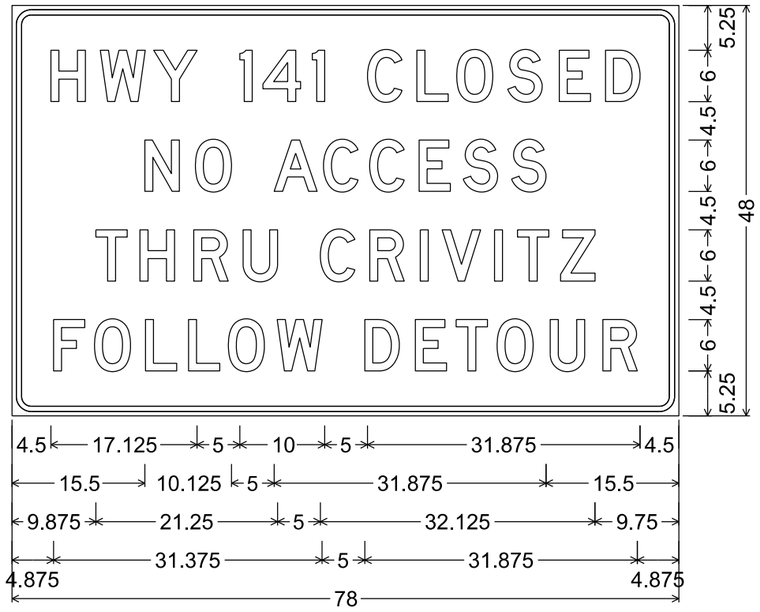
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. WO1-6.2

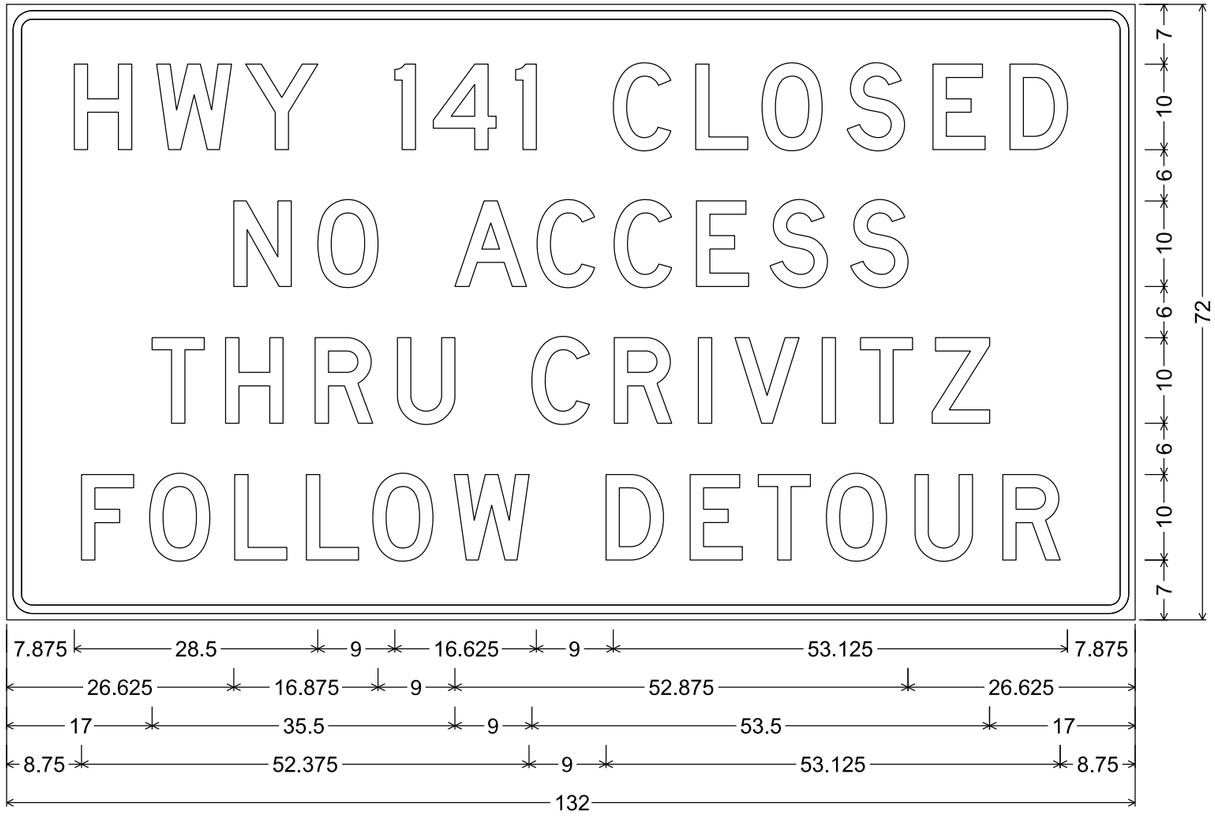
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

NOTES

1. Fixed Message Signs Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



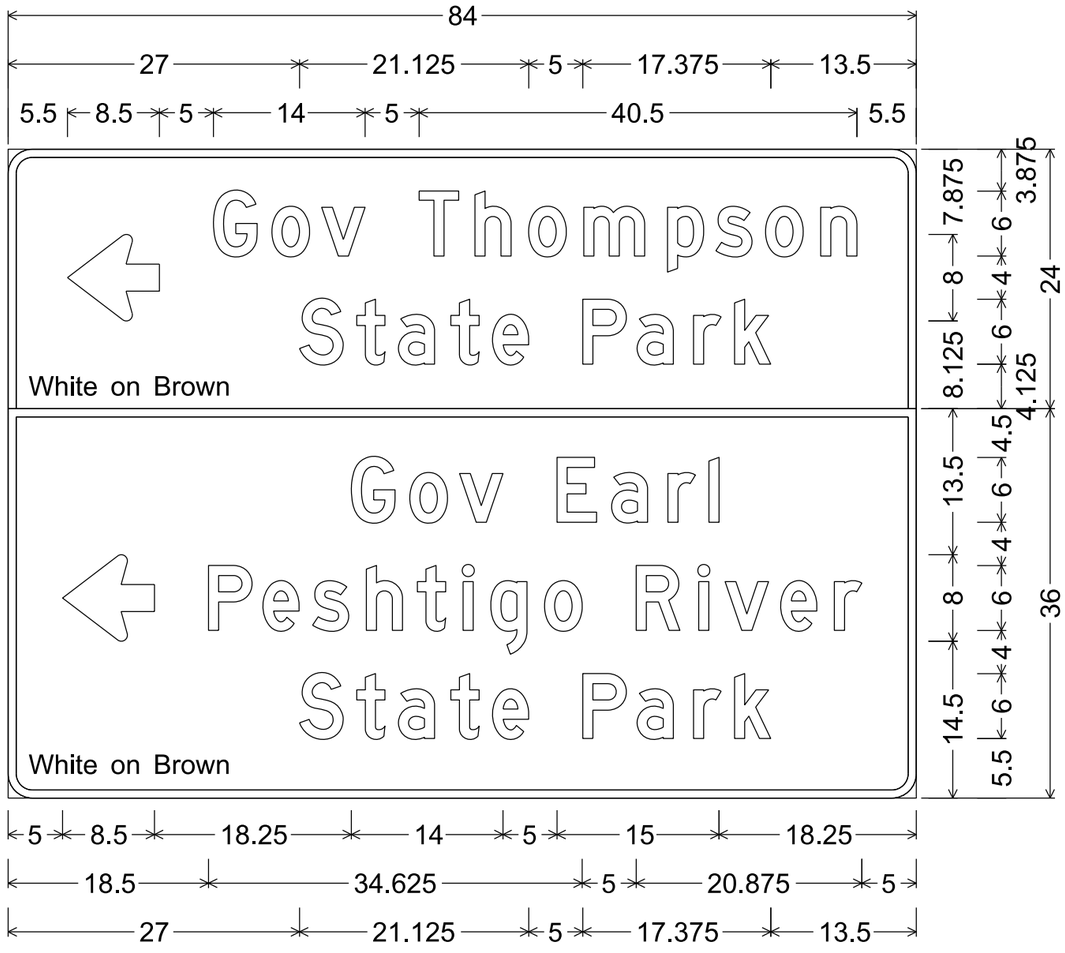
2.250" Radius, 0.625" Border, 0.500" Indent



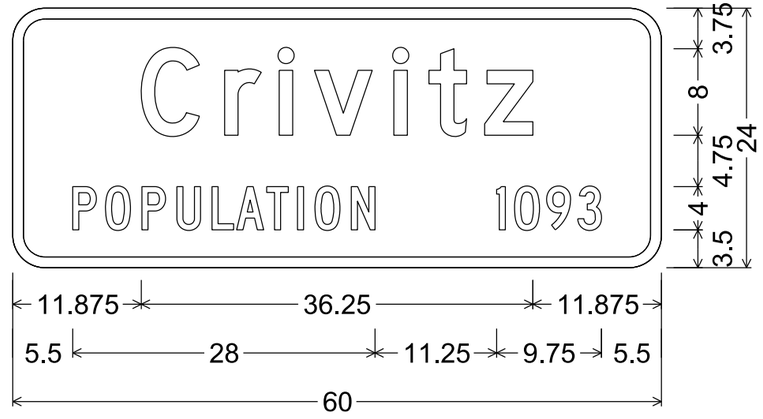
3.000" Radius, 1.000" Border, 0.750" Indent

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green or as noted
   Message - White
3. Message Series - D or as noted



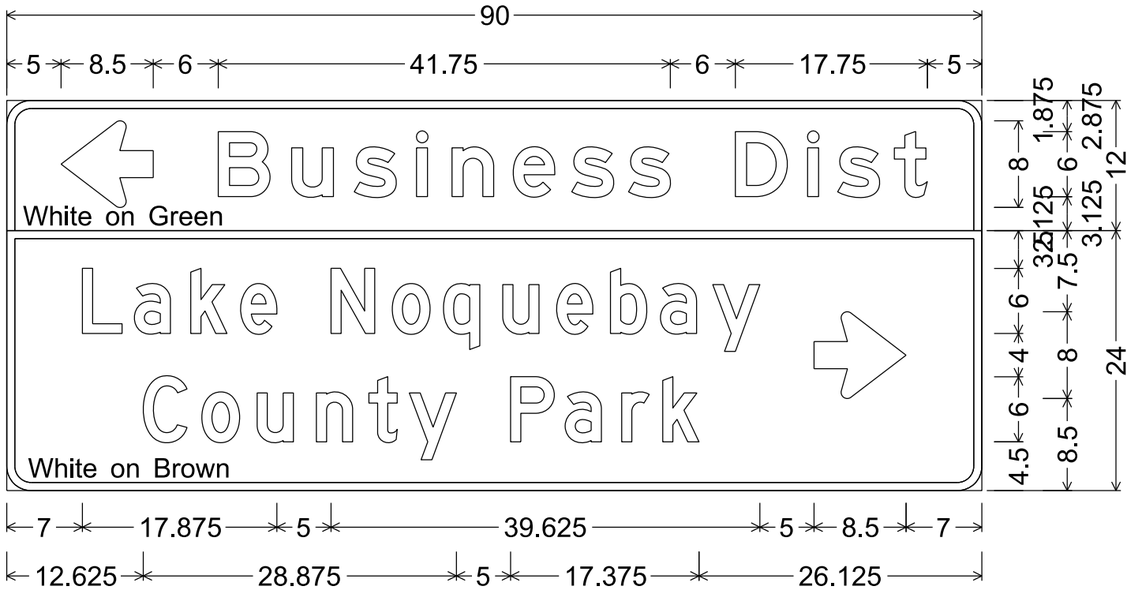
2.250" Radius, 0.750" Border, White on Brown



I2-3 Marinette Co; 3.000" Radius, 1.000" Border
"Crivitz", D; "POPULATION", C, "1093", C

7

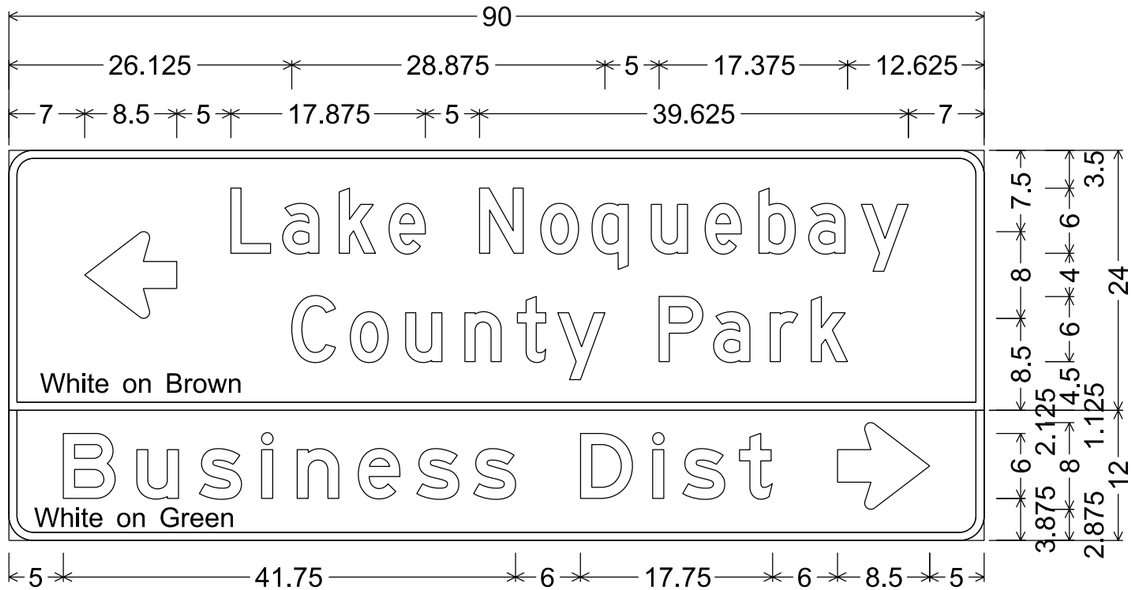
7



2.250" Radius, 0.750" Border, White on Green
2.250" Radius, 0.750" Border, White on Brown
"Lake", D; "Noquebay", D; "County", D; "Park", D

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green or as noted
   Message - White
3. Message Series - E or as noted

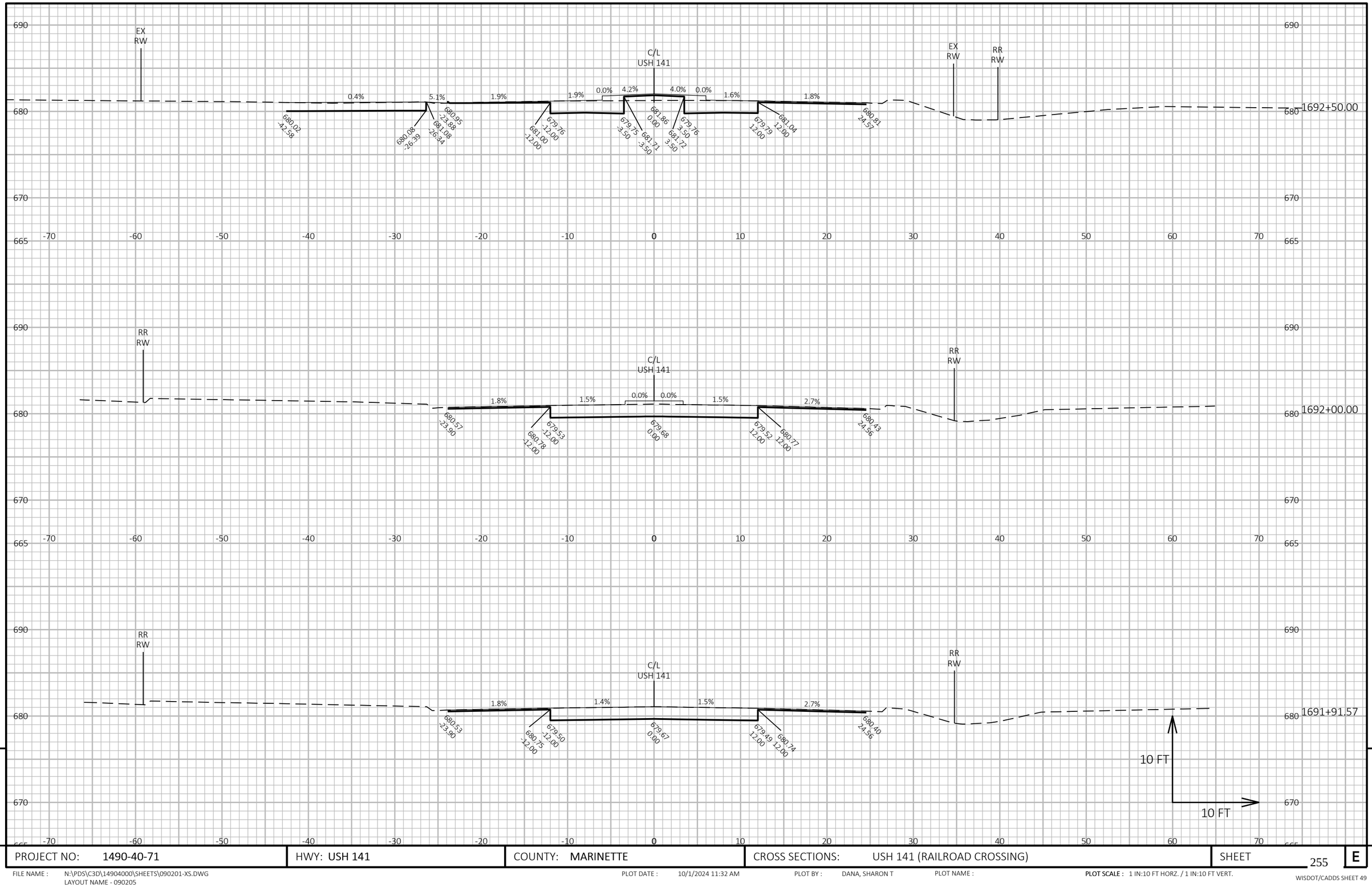


2.250" Radius, 0.750" Border, White on Brown
"Lake", D; "Noquebay", D; "County", D; "Park", D
2.250" Radius, 0.750" Border, White on Green

7

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PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	PERMANENT SIGNING	SHEET NO: 254	E

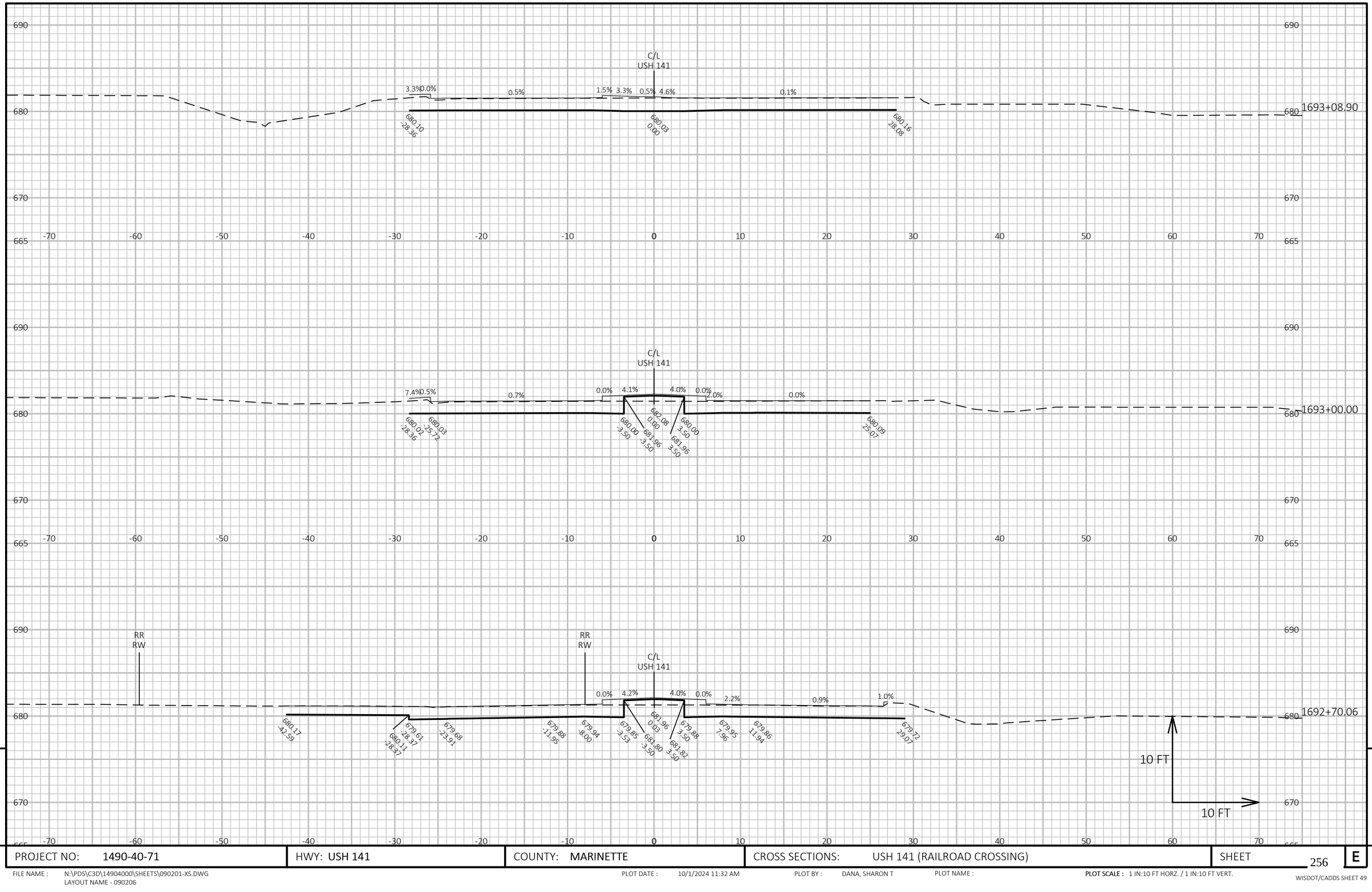


PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	CROSS SECTIONS: USH 141 (RAILROAD CROSSING)	SHEET 255 E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\090201-XS.DWG
LAYOUT NAME - 090205

PLOT DATE : 10/1/2024 11:32 AM PLOT BY : DANA, SHARON T PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	CROSS SECTIONS: USH 141 (RAILROAD CROSSING)	SHEET 256	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\090201-XS.DWG
LAYOUT NAME - 090206

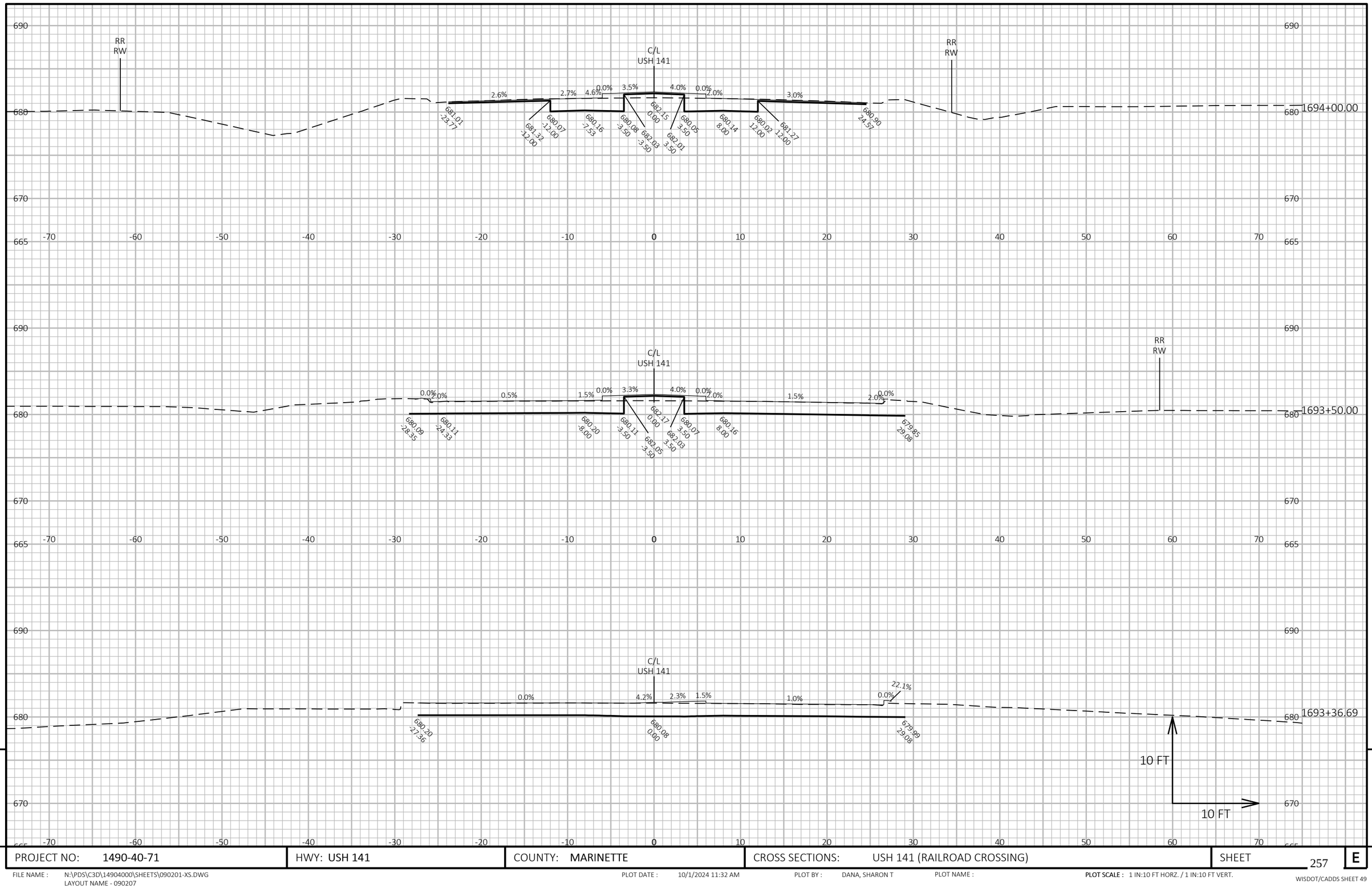
PLOT DATE : 10/1/2024 11:32 AM

PLOT BY : DANA, SHARON T

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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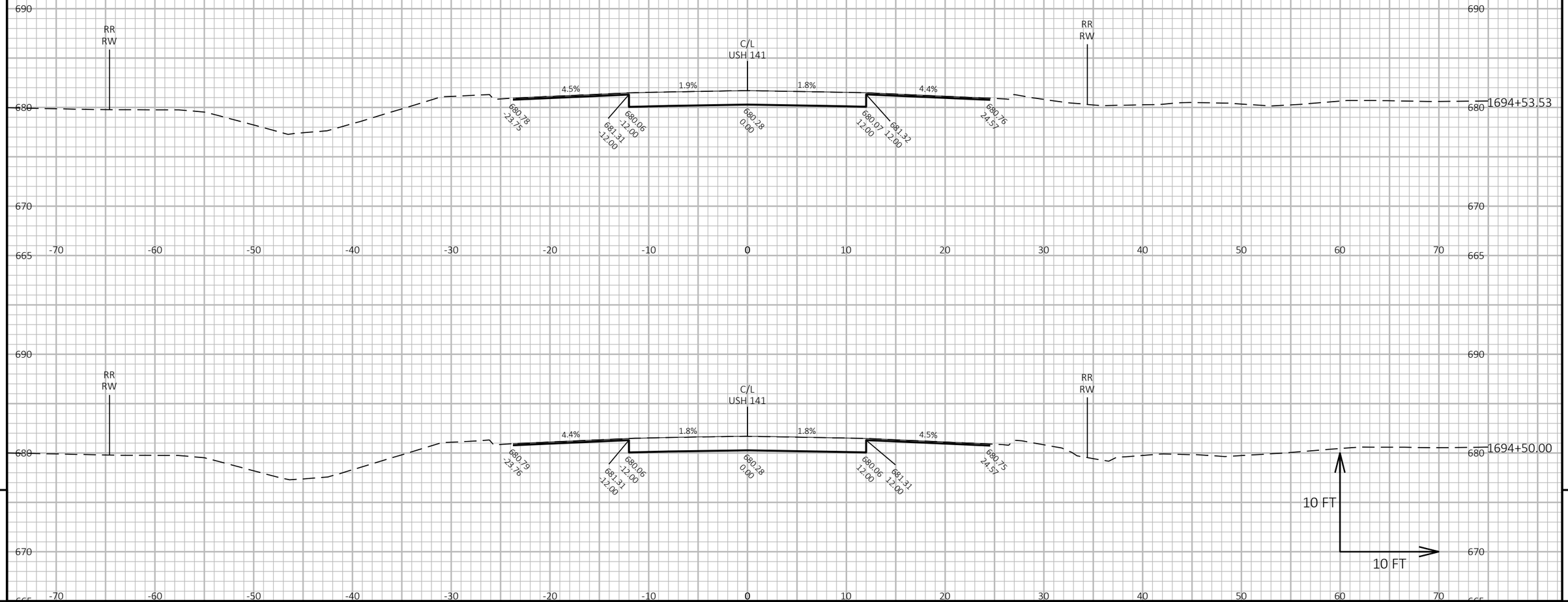
9

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	CROSS SECTIONS: USH 141 (RAILROAD CROSSING)	SHEET 257	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\090201-XS.DWG
LAYOUT NAME - 090207

PLOT DATE : 10/1/2024 11:32 AM PLOT BY : DANA, SHARON T PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	CROSS SECTIONS: USH 141 (RAILROAD CROSSING)	SHEET 258	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\090201-XS.DWG
LAYOUT NAME - 090208

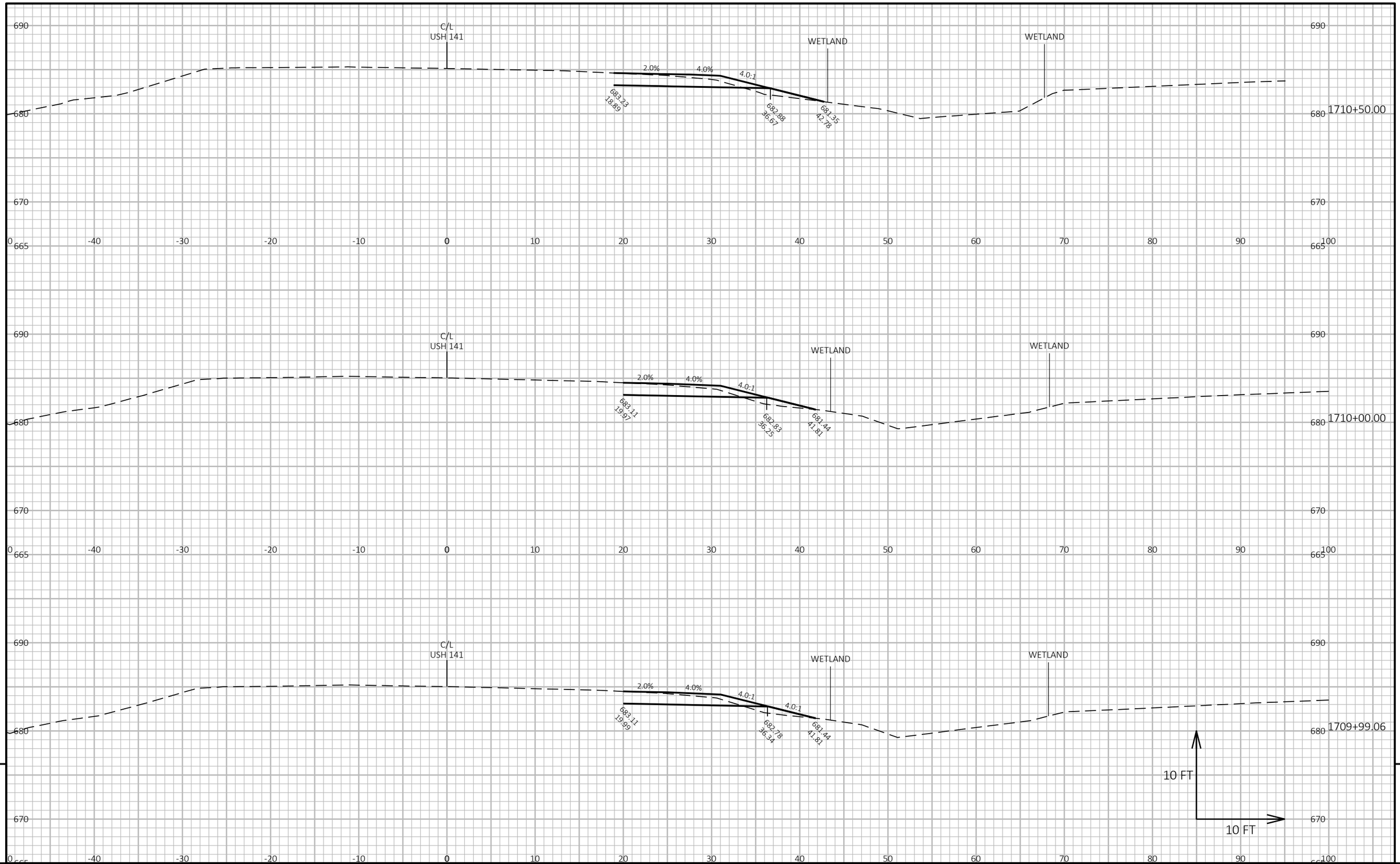
PLOT DATE : 10/1/2024 11:32 AM

PLOT BY : DANA, SHARON T

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	CROSS SECTIONS: USH 141 (OLD HWY 141)	SHEET 259	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\090201-XS.DWG
LAYOUT NAME - 090201-xs

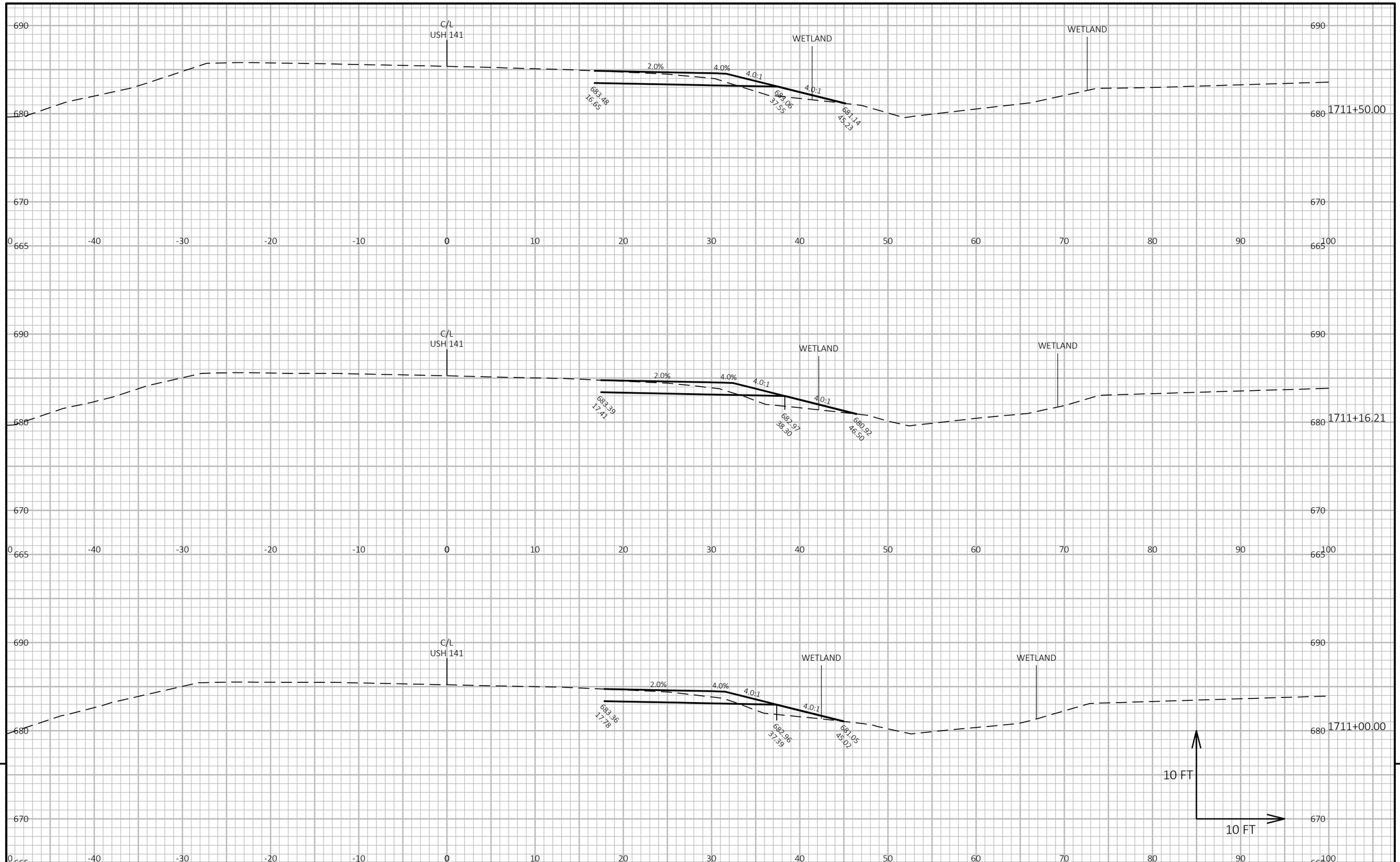
PLOT DATE : 10/1/2024 11:32 AM

PLOT BY : DANA, SHARON T

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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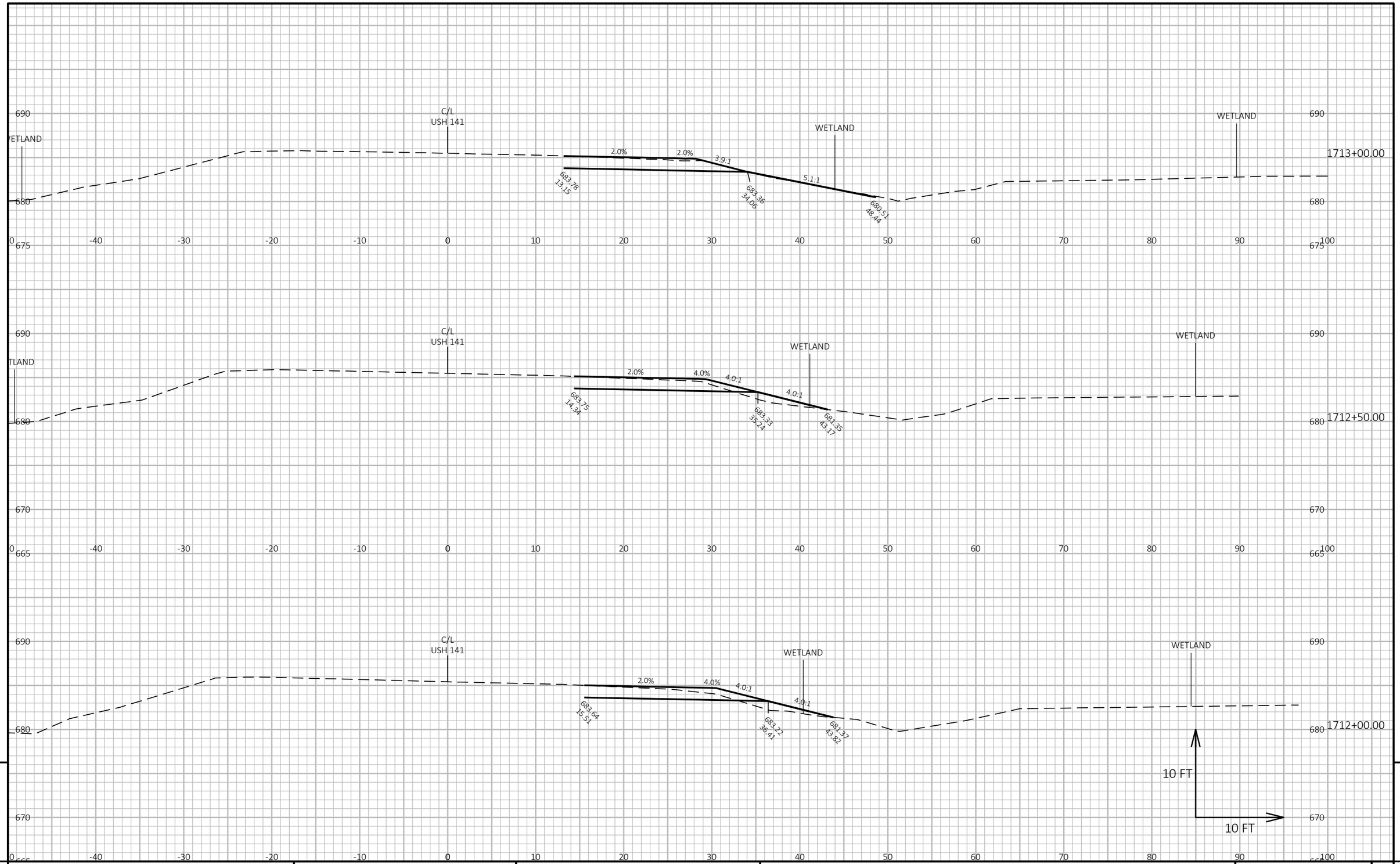
PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	CROSS SECTIONS: USH 141 (OLD HWY 141)	SHEET 260	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\090201-XS.DWG
LAYOUT NAME - 090202-xs

PLOT DATE : 10/1/2024 11:32 AM PLOT BY : DANA, SHARON T PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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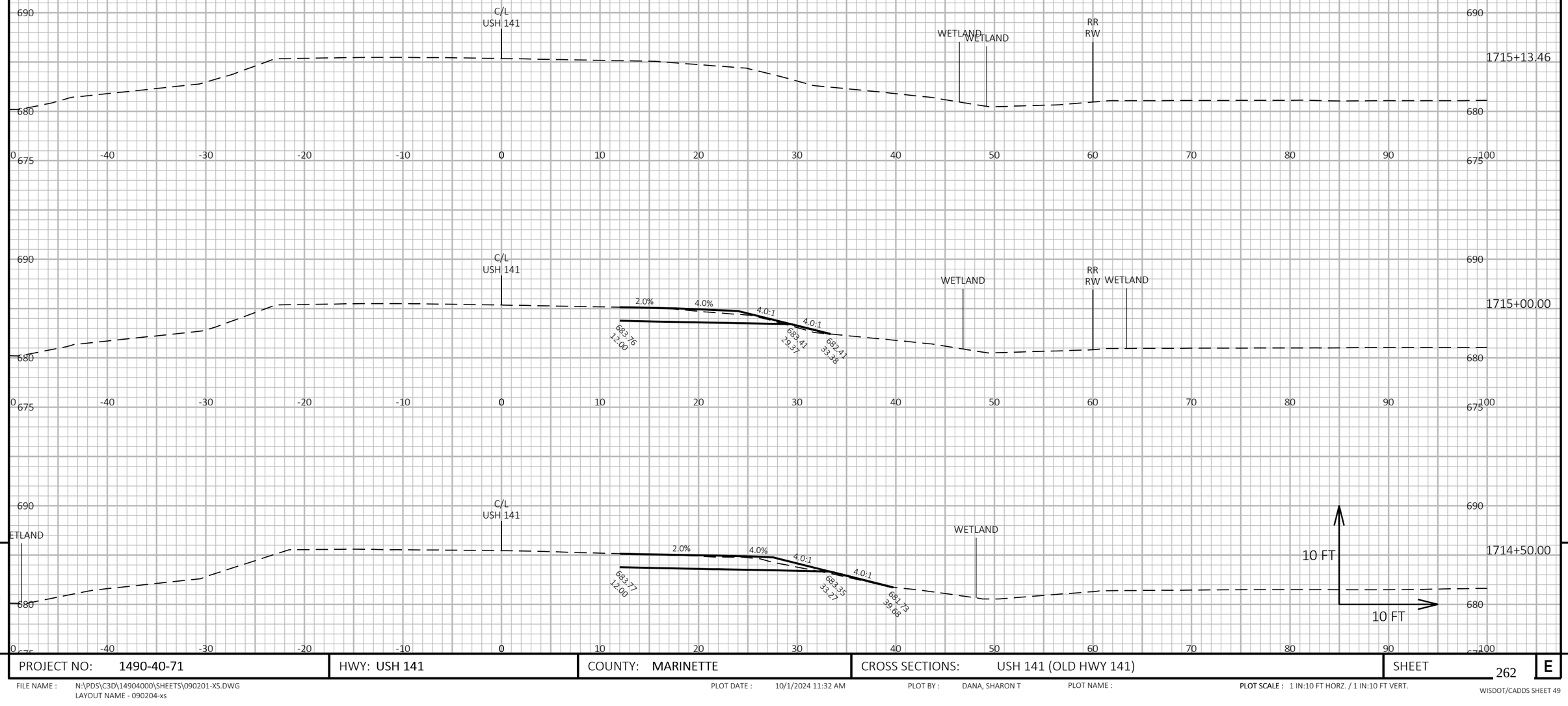
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PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	CROSS SECTIONS: USH 141 (OLD HWY 141)	SHEET 261	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\090201-XS.DWG
LAYOUT NAME - 090203-xs

PLOT DATE : 10/1/2024 11:32 AM PLOT BY : DANA, SHARON T PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



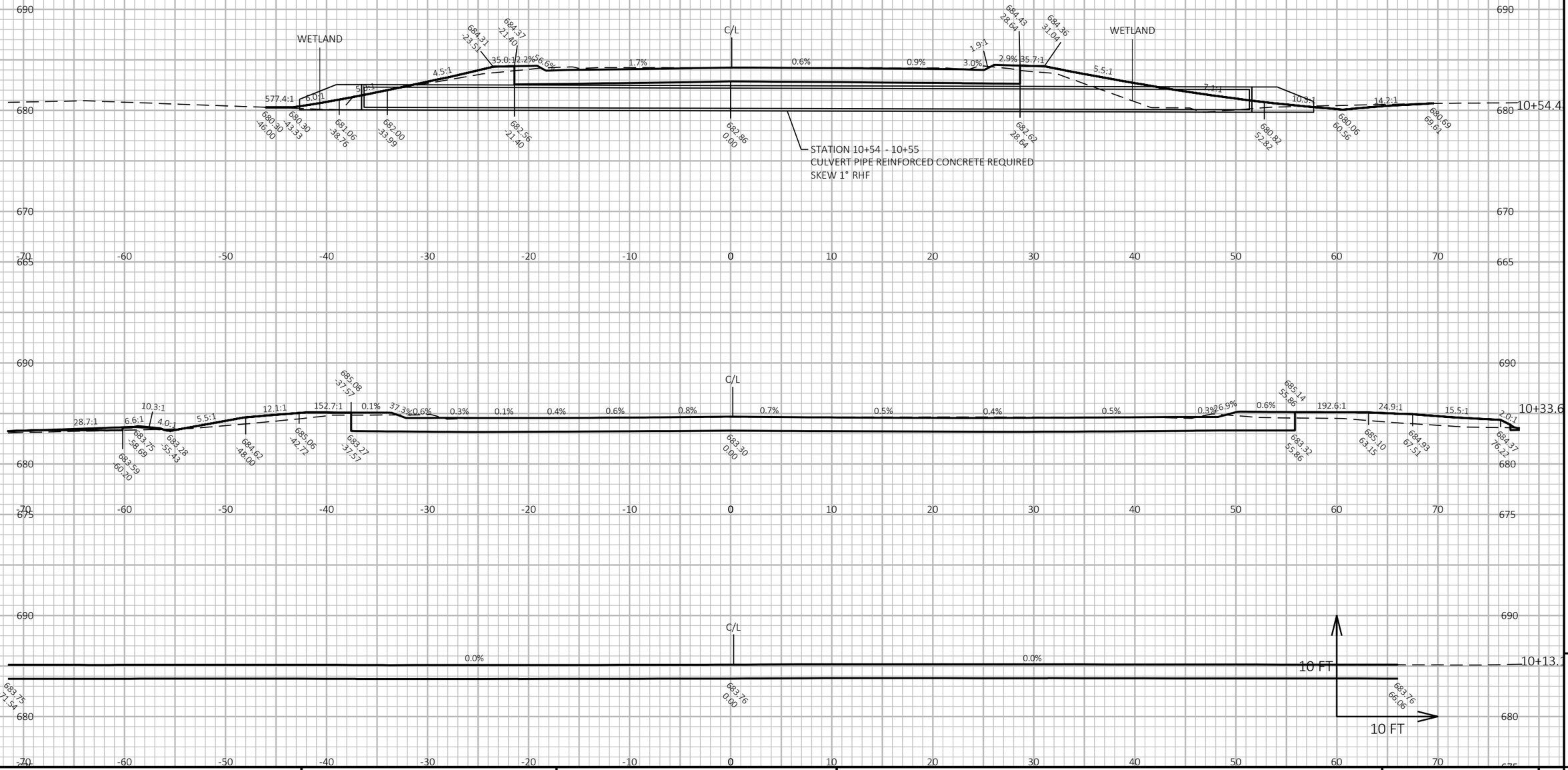
9 9

PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	CROSS SECTIONS: USH 141 (OLD HWY 141)	SHEET 262	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\090201-XS.DWG
LAYOUT NAME - 090204-xs

PLOT DATE : 10/1/2024 11:32 AM PLOT BY : DANA, SHARON T PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

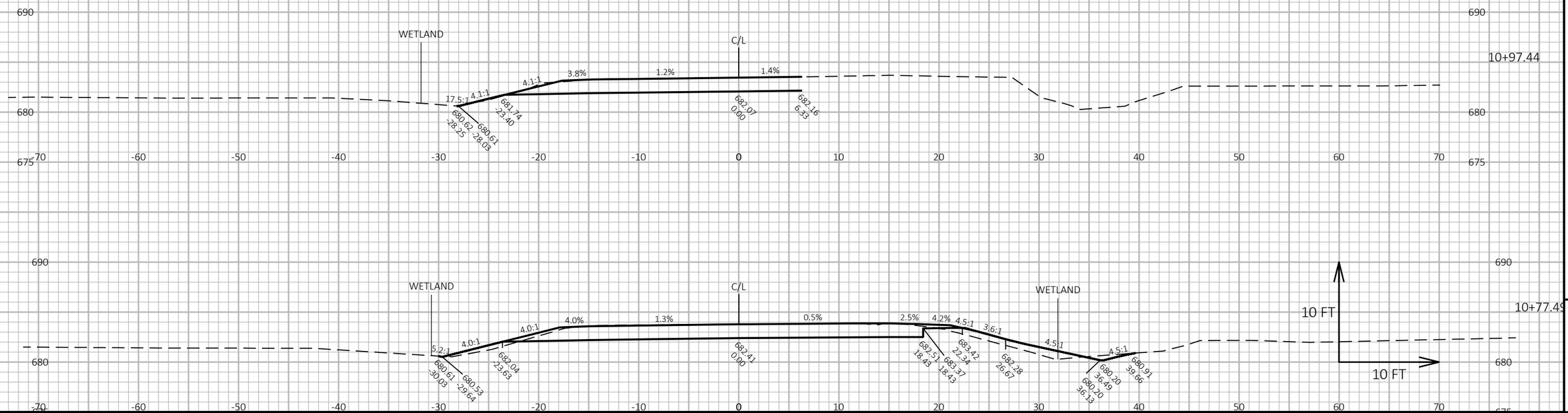


PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	CROSS SECTIONS: OLD HWY 141	SHEET 263 E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\090201-XS.DWG
LAYOUT NAME - 090209

PLOT DATE : 10/1/2024 11:32 AM PLOT BY : DANA, SHARON T PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1490-40-71	HWY: USH 141	COUNTY: MARINETTE	CROSS SECTIONS: OLD HWY 141	SHEET 264	E

FILE NAME : N:\PDS\C3D\14904000\SHEETS\090201-XS.DWG
LAYOUT NAME - 090210

PLOT DATE : 10/1/2024 11:32 AM

PLOT BY : DANA, SHARON T

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

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through innovation and exceptional service.

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