WKE

Feb 09, 2021

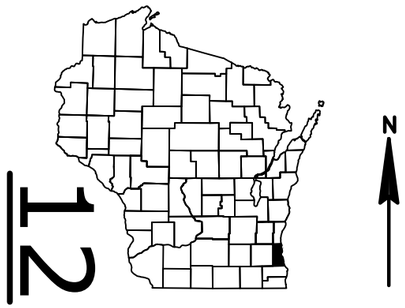
PROJECT ID: 1300-03-72

COUNTY: MILWAUKEE

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.	8	Structure Plans
~~Section No.~~	~~9~~	~~Computer Earthwork Data~~
~~Section No.~~	~~9~~	~~Cross Sections~~

TOTAL SHEETS = 388



DESIGN DESIGNATION

A.A.D.T.	2015	=	26,375
A.A.D.T.	2040	=	30,550
D.H.V.		=	1,214
D.D.		=	67/33
T.		=	5.3%
DESIGN SPEED		=	
		=	50 MPH
ESALS		=	

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

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1300-03-72	WISC 2021140	1

LAKE PARKWAY - MILWAUKEE / ST. FRANCIS

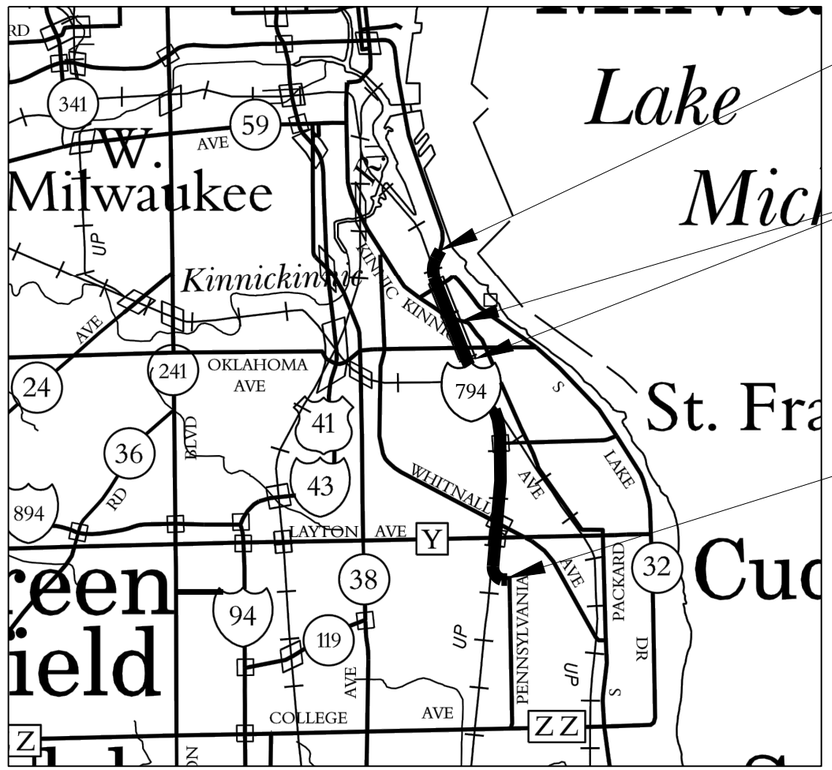
E. LINCOLN AVE. TO S. PENNSYLVANIA AVE.

STH 794

MILWAUKEE COUNTY

STATE PROJECT NUMBER
1300-03-72

R-22-E



END PROJECT
STA. 260+13
X = 610571.20
Y = 286689.69

EXCEPTIONS TO NET C/L LENGTH
N-40-29
N-40-30
N-40-31
N-40-32

T-6-N

BEGIN PROJECT
STA 58+51
X = 613771.59
Y = 267923.34

LAYOUT

SCALE 0 — 1 MI

TOTAL NET LENGTH OF CENTERLINE = 3.820 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE REFERENCE TO THE WISCONSIN COUTNY CORDINATE SYSTEM (WCCS), MILWAUKEE, COUNTY, NAD83 (2011), IN U.S SURVEY FEET.

ELEVATION SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	GARY STARK
Project Manager	NGUYEN LY
Regional Examiner	STEVE CHOJNACKI
Regional Supervisor	BENEDICT ERUCHALU

APPROVED FOR THE DEPARTMENT

DATE: 11/1/2020 (Signature)

E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\010101_TI.DWG PLOT DATE : 10/26/2020 3:09 PM PLOT BY : JACKSON, MARCUS P PLOT NAME :

GENERAL NOTES

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

ALL LAYOUT DATA IS REFERENCED TO THE R/L UNLESS OTHERWISE NOTED.

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE LOCATIONS 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 WILL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A CALL TO THE UTILITIES THAT HAVE INSTALLATIONS WITHIN THE PROJECT AREA.

EROSION CONTROL DEVICES ARE TO BE PLACED IN SEQUENCE WITH CONSTRUCTION STAGING AND MAINTAINED THROUGH EACH STAGE OR AS DETERMINED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN ON THE PLAN SHEETS ARE APPROXIMATE LOCATIONS. THE EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER

RE-TOPSOILING OF ALL DISTURBED AREAS SHALL BE DONE IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. FERTILIZE, SEED AND MULCH OR PLACE EROSION MAT ON ALL TOPSOILED AREAS WITHIN 3 WORKING DAYS AFTER PLACEMENT OF THE TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN 24 HOURS, SEED THOSE AREAS WITH TEMPORARY SEED.

ELEVATIONS SHOWN FOR CURB AND GUTTER ARE FLANGE ELEVATION. DISTANCES SHOWN FOR CURB AND GUTTER RADAII ARE MEASURED TO THE FLANGE

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES

PROJECT OVERVIEW

TYPICAL SECTIONS

CONSTRUCTION DETAILS

PLAN DETAILS

EROSION CONTROL

PERMANENT SIGNING

LIGHTING

SIGNALS

FTMS

PAVEMENT MARKING

TRAFFIC CONTROL

ALIGNMENT

HMA PAVING LAYER DEPTHS

STH 794 - STA 58+51 TO 99+50 NB & SB
UPPER:1 3/4 INCHES OF HMA PAVEMENT 4MT 58-28 S
LOWER: 2 1/4 INCHES OF HMA PAVEMENT 3MT 58-28 S

STH 794 - STA 99+50 TO 260+13 NB & SB
UPPER:1 3/4 INCHES OF HMA PAVEMENT 4MT 58-28 S
LOWER: 1 3/4 INCHES OF HMA PAVEMENT 4MT 58-28 S

OTHER CONTACTS

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CDAILEY@ATCLLC.COM

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SGARCIA@EVERSTREAM.NET

DIGGERS HOTLINE

Call 811 or Toll Free (800) 242-8511
www.DiggersHotline.com

2

2

N

B-40-0618

B-40-0616

B-40-0625
SB STH 794

BAY ST.

LINCOLN AVE.

CARFERRY

E. RUSSELL AVE.

PRYOR AVE.

OKLAHOMA AVE.

B-40-0612

N-40-31

N-40-32

B-40-0614

ELLEN ST.

794

N-40-30

N-40-29

32

B-40-0628
NB OFF

B-40-0621
NB STH 794

END PROJECT
STA 260+13

LAYTON AVE.

WHITNALL AVE.

BOLIVAR AVE.

HOWARD AVE.

ST. FRANCIS AVE.

B-40-0720

B-40-0611

B40-0626
PED BRIDGE

B-40-0600
OVER RR

B-40-0609

UNION PACIFIC

PENNSYLVANIA AVE.

794

B-40-0610
OVER STH 794

UNION PACIFIC

B-40-0535

B-40-0526 EB (SOUTH) BRIDGE
B-40-0527 WB (NORTH) BRIDGE

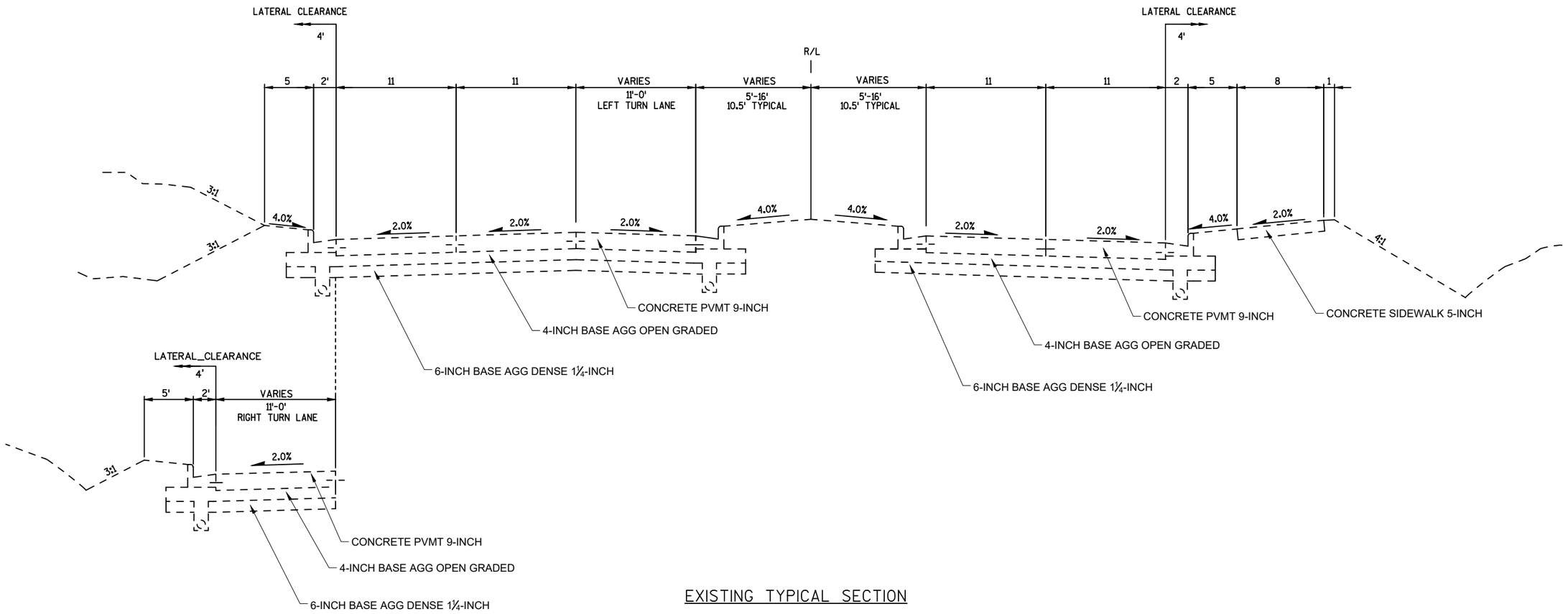
B-40-0719

BEGIN PROJECT
STA 58+51

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\020201_PO.DWG
LAYOUT NAME - 01
PLOT DATE : 10/26/2020 3:12 PM
PLOT BY : JACKSON, MARCUS P
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

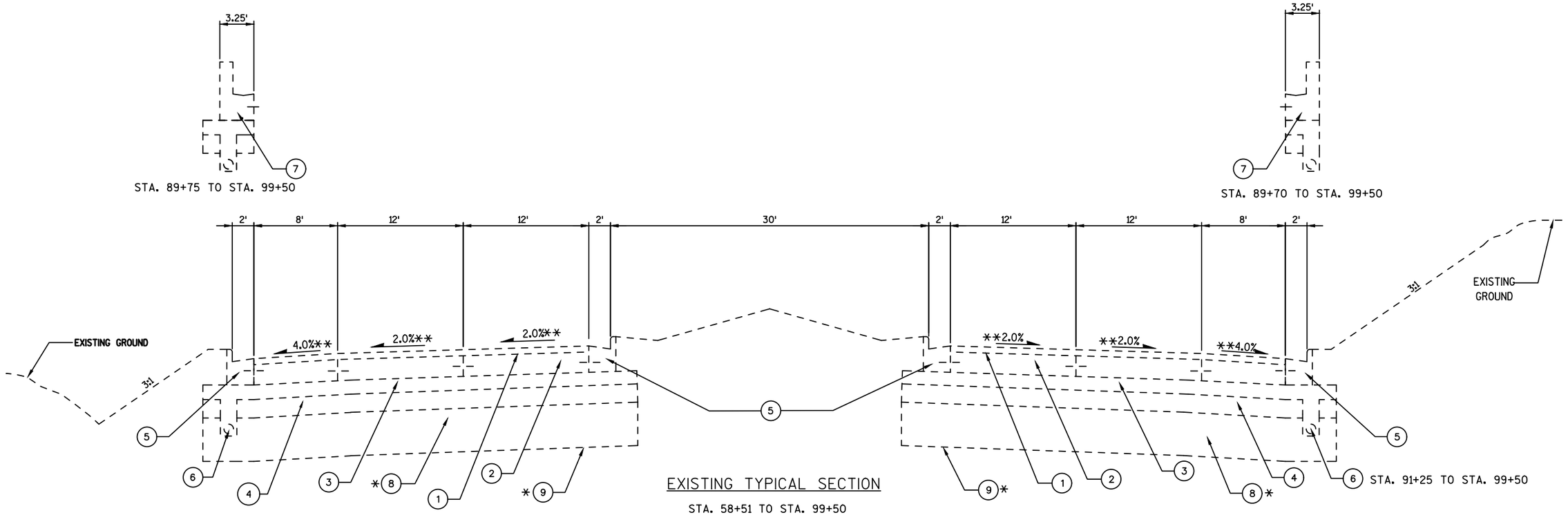
2



EXISTING TYPICAL SECTION

PENNSYLVANIA AVENUE

PROJECT NO: PENNSYLVANIA BUS STOP	HWY: PENNSYLVANIA AVENUE	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET 5	E



EXISTING TYPICAL SECTION

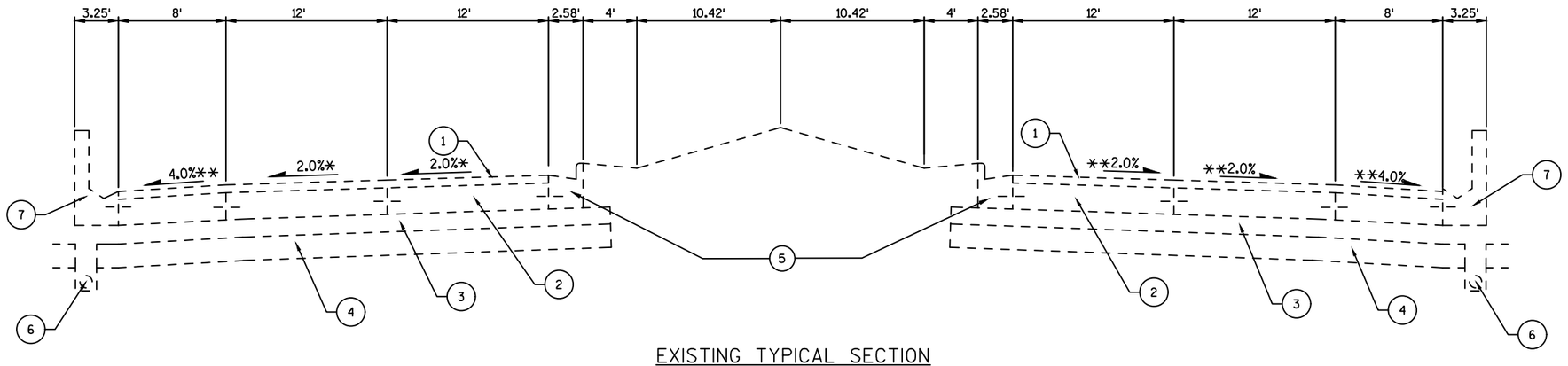
STA. 58+51 TO STA. 99+50

** 4% SUPERELEVATION
STA. 60+50 TO STA. 70+64, 4% NB & SB

* STA. 70+64 TO STA. 99+50

LEGEND

1. EXISTING HMA PAVEMENT, 4-INCH
2. EXISTING CONCRETE BASE 7-INCH (DOWELED)
3. EXISTING BASE AGGREGATE OPEN GRADED, 4-INCH
4. EXISTING BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
5. EXISTING CONCRETE CURB AND GUTTER 31-INCH SPECIAL
6. EXISTING PIPE UNDERDRAIN 6-INCH
7. EXISTING CONCRETE BARRIER SPECIAL
8. EXISTING SELECT CRUSHED STONE
9. EXISTING TYPE SR FABRIC



EXISTING TYPICAL SECTION

STH 794

STA. 99+50 TO STA. 155+00

* SUPERELEVATION TRANSITION FROM 2.0% TO 2.5%
STA. 145+10 TO STA. 145+50

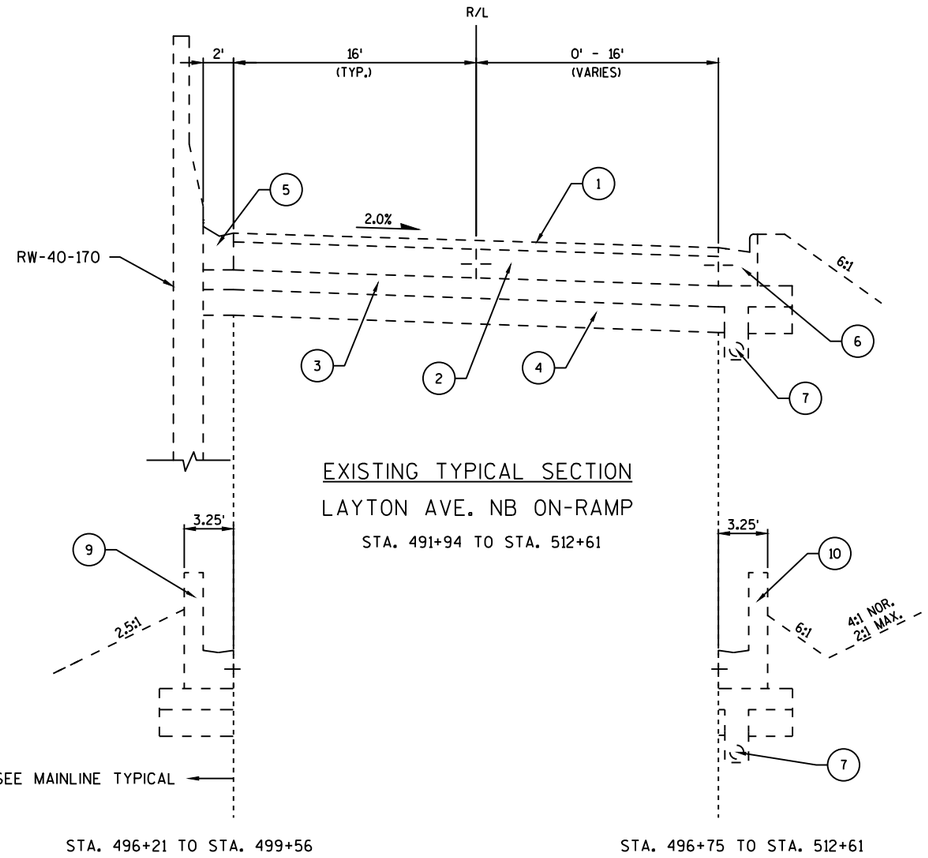
** SUPERELEVATION TRANSITION FROM 2.0% TO 0.0%
STA. 141+75 TO STA. 143+50

SUPERELEVATION TRANSITION FROM 0.0% TO -2.0%
STA. 143+50 TO STA. 145+10

SUPERELEVATION TRANSITION FROM -2.0% TO -2.5%
STA. 145+10 TO STA. 145+50

LEGEND

1. EXISTING HMA PAVEMENT, 2.5 - 3.5-INCH
2. EXISTING CONCRETE BASE 7-INCH (NON-DOWELED)
3. EXISTING C.A.B.C. OPEN GRADED, NO. 2, 4-INCH
4. EXISTING C.A.B.C., 6-INCH
5. EXISTING CONCRETE CURB AND GUTTER 31-INCH SPECIAL (TYP.) (SEE DETAIL)
6. EXISTING PIPE UNDERDRAIN 6-INCH (TYP.)
7. EXISTING CONCRETE BARRIER, VERTICAL FACE (SEE DETAIL)



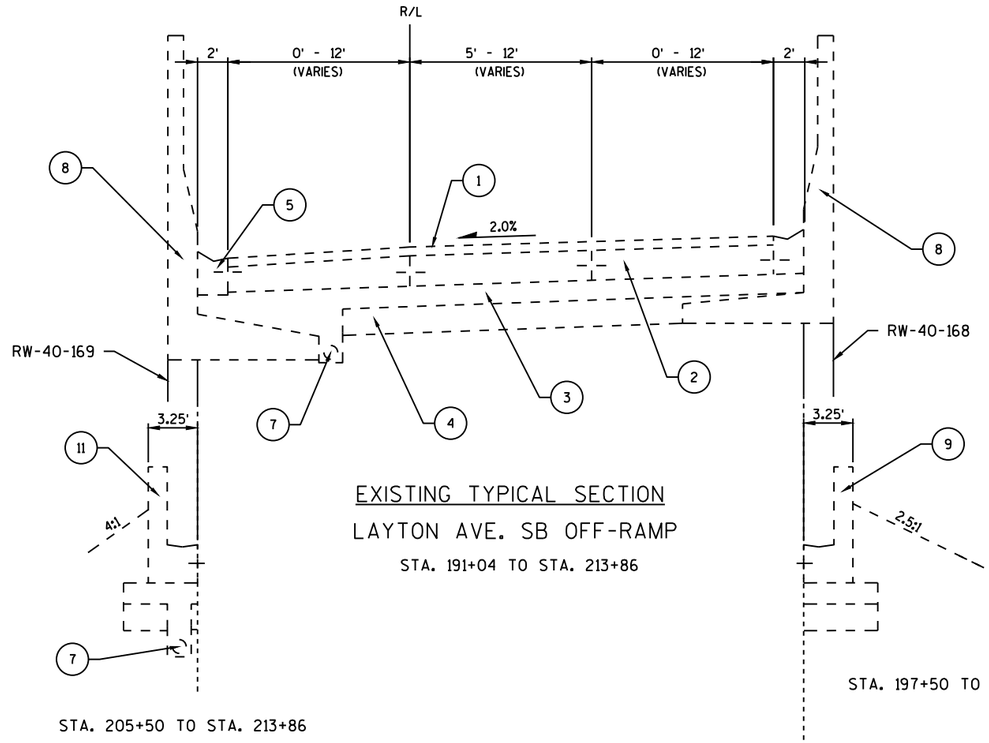
EXISTING TYPICAL SECTION

LAYTON AVE. NB ON-RAMP

STA. 491+94 TO STA. 512+61

STA. 496+21 TO STA. 499+56

STA. 496+75 TO STA. 512+61



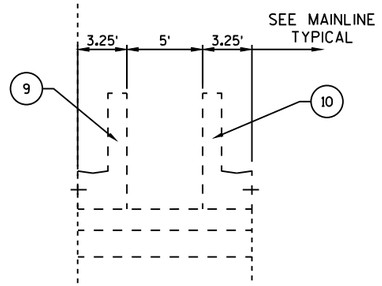
EXISTING TYPICAL SECTION

LAYTON AVE. SB OFF-RAMP

STA. 191+04 TO STA. 213+86

STA. 205+50 TO STA. 213+86

STA. 197+50 TO STA. 199+56

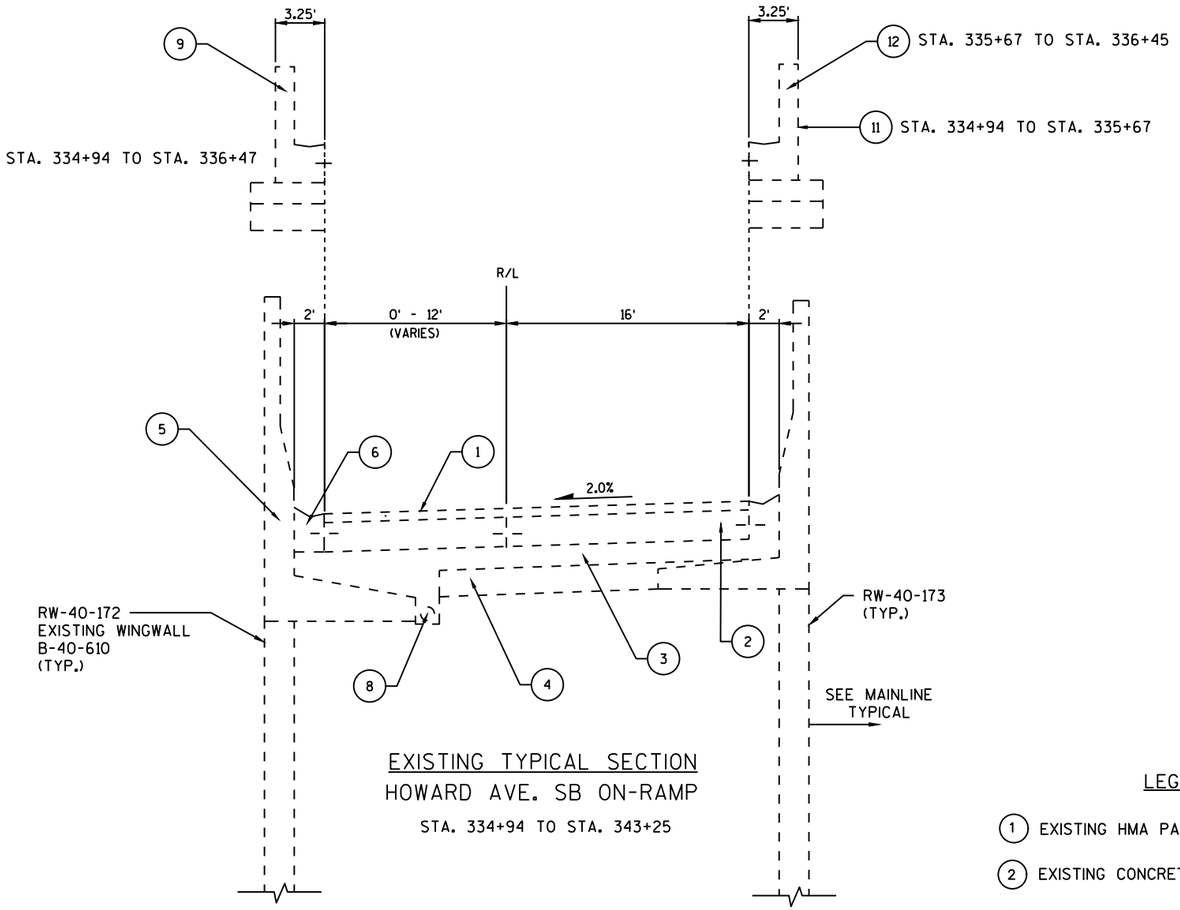


STA. 199+56 TO STA. 200+20

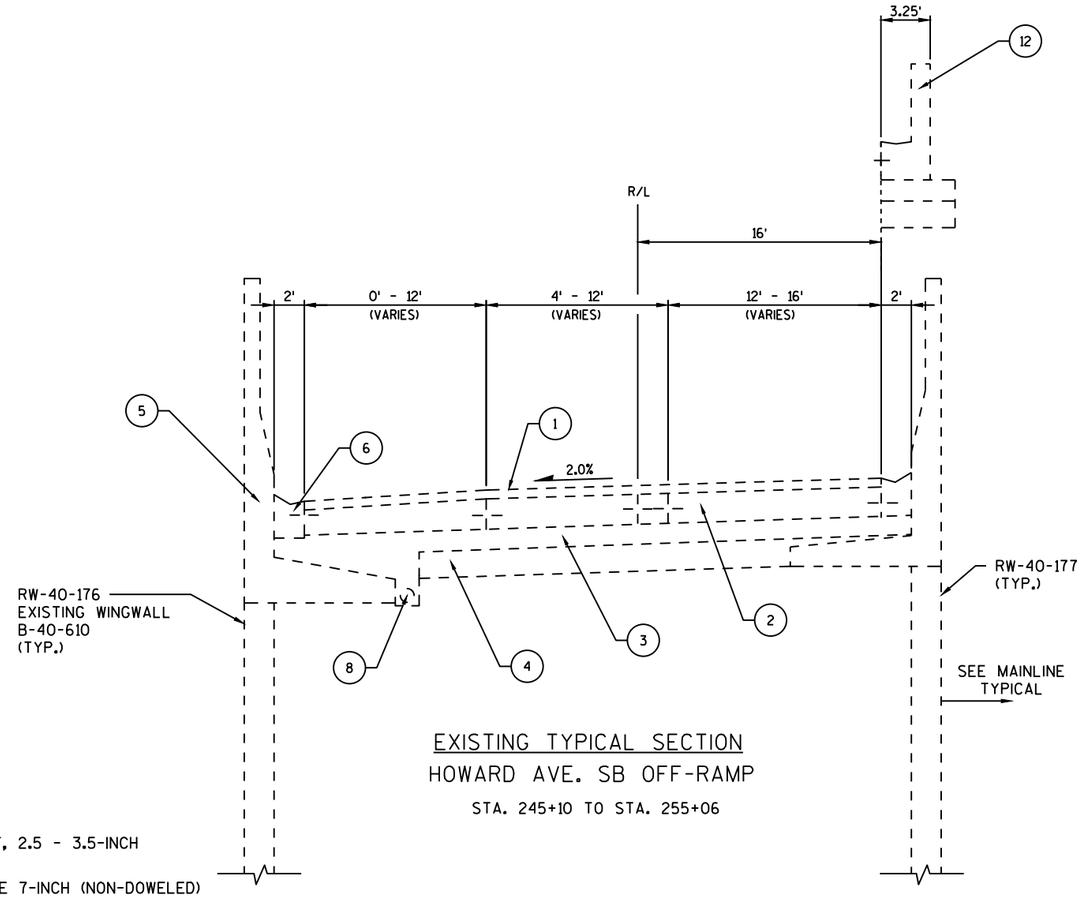
SEE MAINLINE TYPICAL FOR
STA. 200+20 TO STA. 213+86

LEGEND

1. EXISTING HMA PAVEMENT, 2.5 - 3.5-INCH
2. EXISTING CONCRETE BASE 7-INCH (NON-DOWELED)
3. EXISTING C.A.B.C. OPEN GRADED, NO. 2, 4-INCH
4. EXISTING C.A.B.C., 6-INCH
5. EXISTING CONCRETE GUTTER 24-INCH
6. EXISTING CONCRETE CURB AND GUTTER 31-INCH SPECIAL (TYP.) (SEE DETAIL)
7. EXISTING PIPE UNDERDRAIN 6-INCH (TYP.)
8. EXISTING CONCRETE BARRIER ON RETAINING WALL (TYP.)
9. EXISTING CONCRETE BARRIER, SINGLE FACED
10. EXISTING CONCRETE BARRIER, VERTICE FACE (SEE DEATIL)
11. EXISTING CONCRETE BARRIER, SPECIAL (TYP.) (SEE DETAIL)



EXISTING TYPICAL SECTION
HOWARD AVE. SB ON-RAMP
STA. 334+94 TO STA. 343+25



EXISTING TYPICAL SECTION
HOWARD AVE. SB OFF-RAMP
STA. 245+10 TO STA. 255+06

* SUPERELEVATION TRANSITION FROM 2.0% TO -5.23%
STA. 342+00 TO STA. 343+25

** SUPERELEVATION TRANSITION FROM -4.73% TO 2.0%
STA. 245+10 TO STA. 246+25

LEGEND

(1) EXISTING HMA PAVEMENT, 2.5 - 3.5-INCH

(2) EXISTING CONCRETE BASE 7-INCH (NON-DOWELED)

(3) EXISTING C.A.B.C. OPEN GRADED, NO. 2, 4-INCH

(4) EXISTING C.A.B.C., 6-INCH

(5) EXISTING CONCRETE BARRIER ON RETAINING WALL (TYP.)
(SEE WALL PLANS)

(6) EXISTING CONCRETE CURB AND GUTTER 24-INCH (TYP.) (SEE S.D.D.)

(7) EXISTING CONCRETE CURB AND GUTTER 31-INCH SPECIAL (TYP.) (SEE DETAIL)

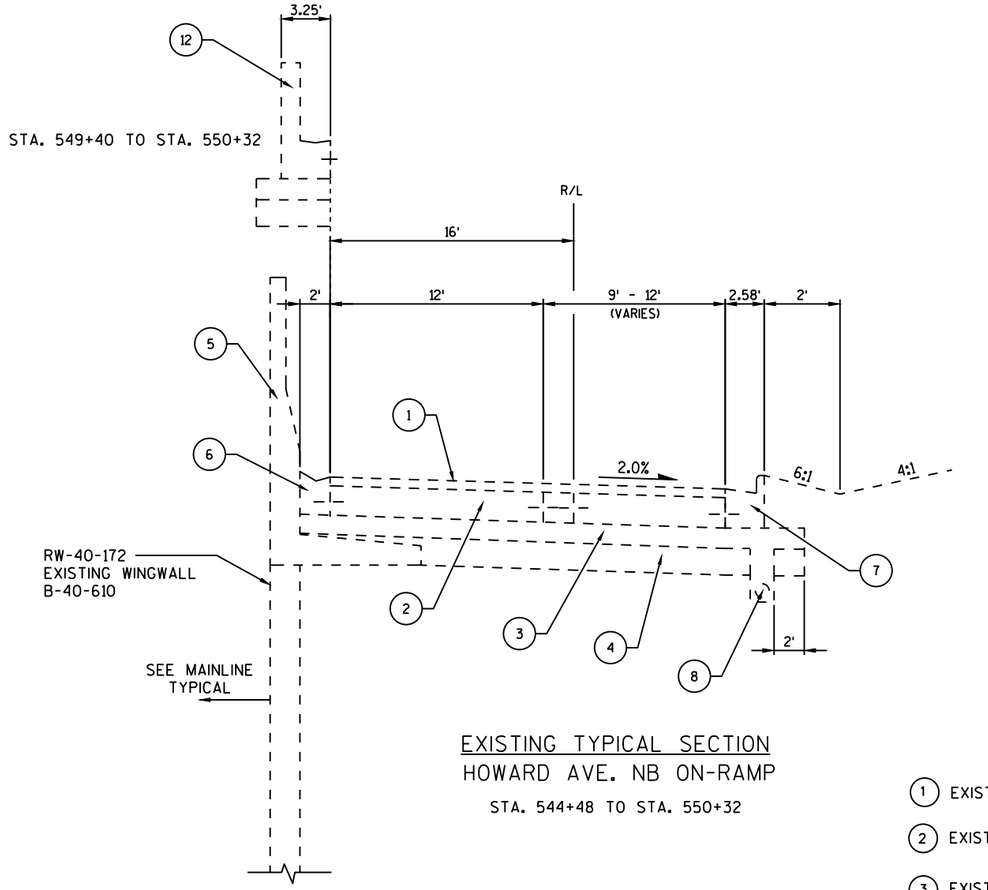
(8) EXISTING PIPE UNDERDRAIN 6-INCH (TYP.) (SEE S.D.D.)

(9) EXISTING CONCRETE BARRIER, SPECIAL (TYP.) (SEE DETAIL)

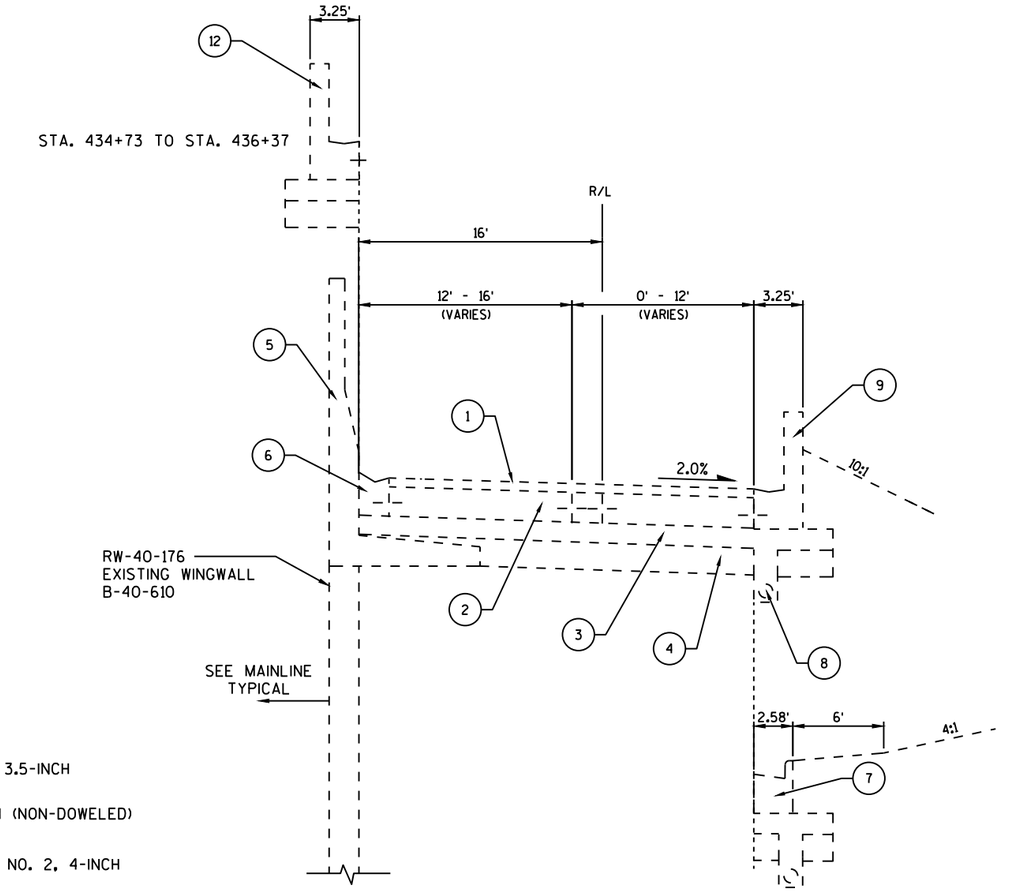
(10) EXISTING CONCRETE BARRIER, VERTICAL FACE (SEE DEATIL)

(11) EXISTING CONCRETE BARRIER DOUBLE FACED, SPECIAL (SEE DETAIL)

(12) EXISTING CONCRETE BARRIER, SINGLE FACED



EXISTING TYPICAL SECTION
HOWARD AVE. NB ON-RAMP
STA. 544+48 TO STA. 550+32



EXISTING TYPICAL SECTION
HOWARD AVE. NB OFF-RAMP
STA. 434+73 TO STA. 443+00

LEGEND

(1) EXISTING HMA PAVEMENT, 2.5 - 3.5-INCH

(2) EXISTING CONCRETE BASE 7-INCH (NON-DOWELED)

(3) EXISTING C.A.B.C. OPEN GRADED, NO. 2, 4-INCH

(4) EXISTING C.A.B.C., 6-INCH

(5) EXISTING CONCRETE BARRIER ON RETAINING WALL (TYP.) (SEE WALL PLANS)

(6) EXISTING CONCRETE CURB AND GUTTER 24-INCH (TYP.) (SEE S.D.D.)

(7) EXISTING CONCRETE CURB AND GUTTER 31-INCH SPECIAL (TYP.) (SEE DETAIL)

(8) EXISTING PIPE UNDERDRAIN 6-INCH (TYP.) (SEE S.D.D.)

(9) EXISTING CONCRETE BARRIER, SPECIAL (TYP.) (SEE DETAIL)

(10) EXISTING CONCRETE BARRIER, VERTICAL FACE (SEE DEATIL)

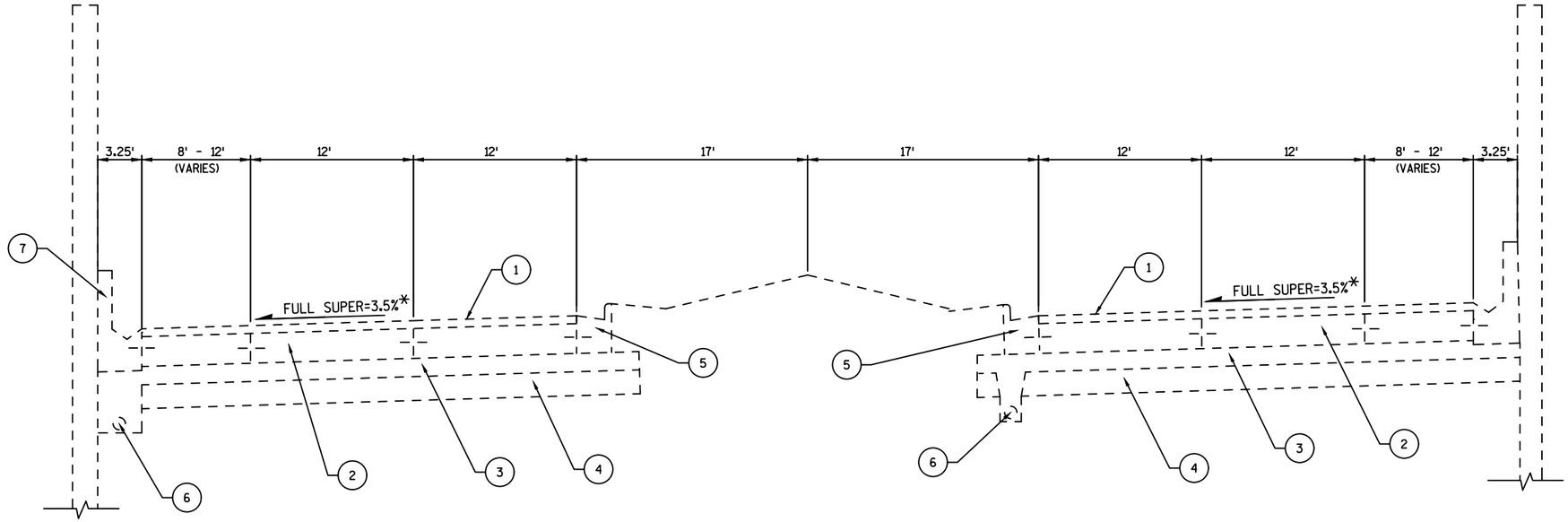
(11) EXISTING CONCRETE BARRIER DOUBLE FACED, SPECIAL (SEE DETAIL)

(12) EXISTING CONCRETE BARRIER, SINGLE FACED

* SUPERELEVATION TRANSITION FROM 2.0% TO -3.64%
STA. 442+50 TO 443+00

SUPERELEVATION TRANSITION FROM -5.32% TO 2.0%
STA. 544+50 TO STA. 545+25

SUPERELEVATION TRANSITION FROM 2.0% TO -3.0%
STA. 548+35 TO STA. 550+00



EXISTING TYPICAL SECTION

STH 794

STA. 155+00 TO STA. 161+75
STA. 165+78 TO STA. 177+25

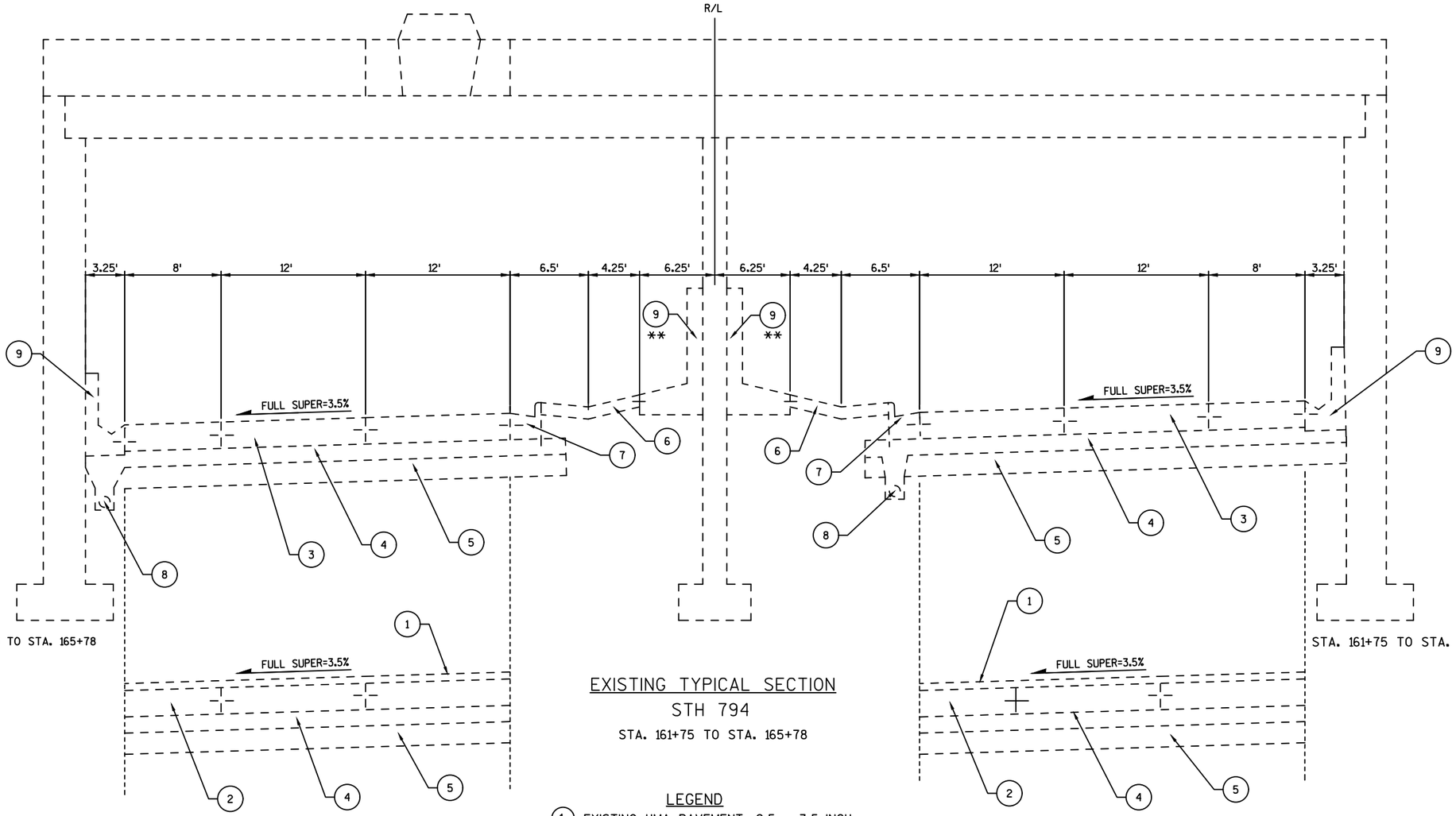
* SUPERELEVATION = 2.5%
STA. 155+00 TO STA. 161+50

SUPERELEVATION TRANSITION FROM 2.5% TO 3.5%
STA. 160+50 TO STA. 161+50

SUPERELEVATION TRANSITION FROM 3.5% TO 2.0%
STA. 171+75 TO STA. 177+25
(SEE TYPICAL STARTING AT STA. 177+25)

LEGEND

1. EXISTING HMA PAVEMENT, 2.5 - 3.5-INCH
2. EXISTING CONCRETE PAVEMENT, 8-INCH
3. EXISTING C.A.B.C. OPEN GRADED, NO. 2, 4-INCH
4. EXISTING C.A.B.C., 6-INCH
5. EXISTING CONCRETE CURB AND GUTTER 31-INCH, SPECIAL (TYP.)
6. EXISTING PIPE UNDERDRAIN 6-INCH (TYP.)
7. EXISTING CONCRETE BARRIER ALONG STRUCTURE (SEE DETAIL)



STA. 162+95 TO STA. 165+78

STA. 161+75 TO STA. 162+95

EXISTING TYPICAL SECTION
STH 794
STA. 161+75 TO STA. 165+78

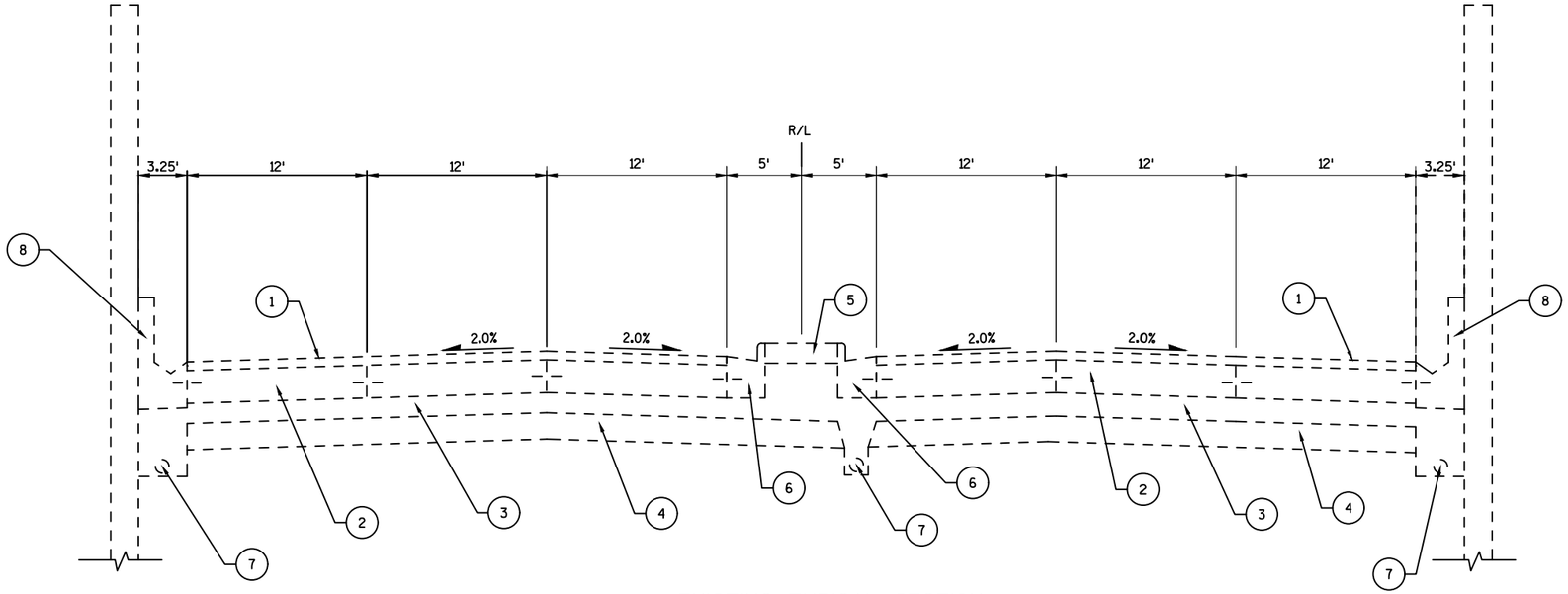
STA. 161+75 TO STA. 164+66

STA. 164+66 TO STA. 165+78

** HIGH SIDE

LEGEND

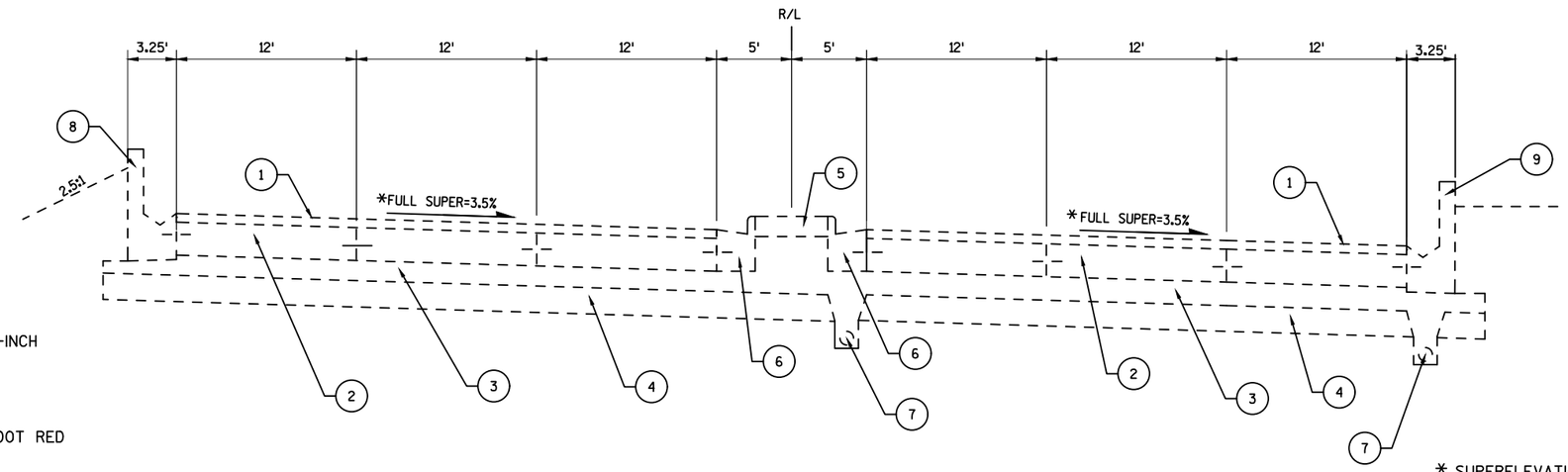
1. EXISTING HMA PAVEMENT, 2.5 - 3.5-INCH
2. EXISTING CONCRETE PAVEMENT, 8-INCH
3. EXISTING CONCRETE PAVEMENT, 10-INCH DOWELED
4. EXISTING C.A.B.C. OPEN GRADED, NO. 2, 4-INCH
5. EXISTING C.A.B.C., 6-INCH
6. EXISTING CONCRETE SIDEWALK, 5-INCH
7. EXISTING CONCRETE CURB AND GUTTER 31-INCH SPECIAL (TYP.)
8. EXISTING PIPE UNDERDRAIN 6-INCH (TYP.) (SEE S.D.D.)
9. EXISTING CONCRETE BARRIER ALONG STRUCTURE (SEE DEATIL)



EXISTING TYPICAL SECTION

STH 794

STA. 177+25 TO STA. 181+85, LT.
STA. 177+25 TO STA. 180+60, RT.



LEGEND

1. EXISTING HMA PAVEMENT, 2.5 - 3.5-INCH
2. EXISTING CONCRETE PAVEMENT, 8-INCH
3. EXISTING C.A.B.C. OPEN GRADED, NO. 2, 4-INCH
4. EXISTING C.A.B.C., 6-INCH
5. EXISTING CONCRETE SIDEWALK, 5-INCH WISDOT RED
6. EXISTING CONCRETE CURB AND GUTTER 31-INCH SPECIAL (TYP.)
7. EXISTING PIPE UNDERDRAIN 6-INCH (TYP.)
8. EXISTING CONCRETE BARRIER ALONG STRUCTURE (SEE DEATIL)
9. EXISTING CONCRETE BARRIER SPECIAL (TYP.)

EXISTING TYPICAL SECTION

STH 794

STA. 181+85 TO STA. 194+25 SB
STA. 180+60 TO STA. 196+00 NB

* SUPERELEVATION TRANSITION
STA. 180+50 TO STA. 183+00

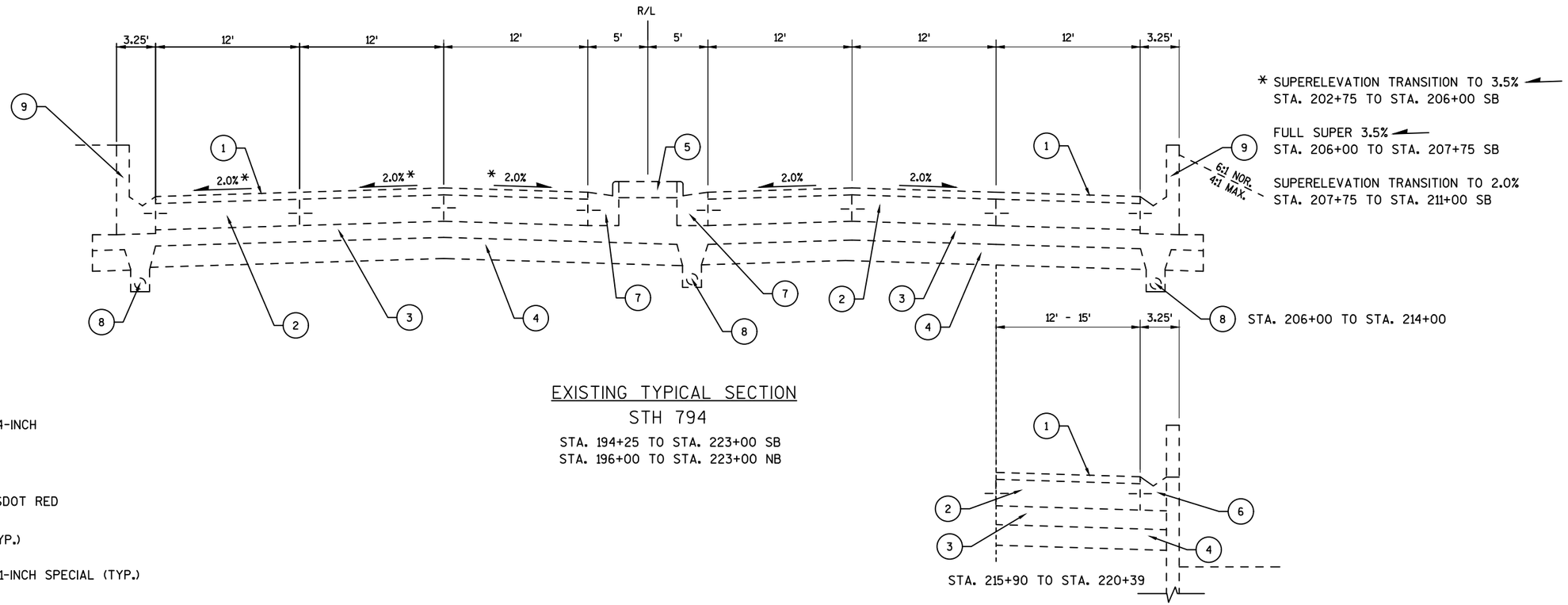
SUPERELEVATION TRANSITION FROM 2.0% TO 3.5%
STA. 180+50 TO STA. 183+00

SUPERELEVATION TRANSITION FROM 3.5% TO 2.0%
(SEE TYPICAL STARTING AT STA. 194+25 SB, STA. 196+00 NB)
STA. 191+00 TO STA. 194+25 SB
STA. 192+75 TO STA. 196+00 NB

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 13	E

2

2

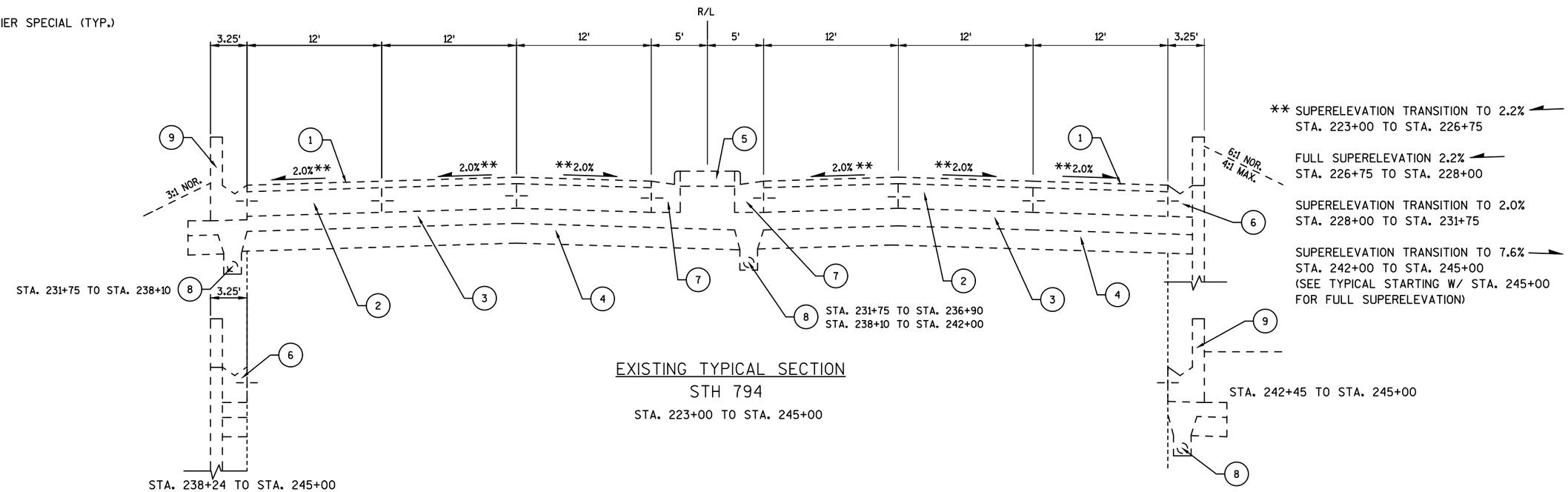


LEGEND

1. EXISTING HMA PAVEMENT, 2.5 - 3.5-INCH
2. EXISTING CONCRETE PAVEMENT, 7-INCH
3. EXISTING C.A.B.C. OPEN GRADED, NO. 2, 4-INCH
4. EXISTING C.A.B.C., 6-INCH
5. EXISTING CONCRETE SIDEWALK, 5-INCH WISDOT RED
6. EXISTING CONCRETE GUTTER 24-INCH (TYP.)
7. EXISTING CONCRETE CURB AND GUTTER 31-INCH SPECIAL (TYP.)
8. EXISTING PIPE UNDERDRAIN 6-INCH (TYP.)
9. EXISTING CONCRETE BARRIER SPECIAL (TYP.)

EXISTING TYPICAL SECTION
STH 794

STA. 194+25 TO STA. 223+00 SB
STA. 196+00 TO STA. 223+00 NB

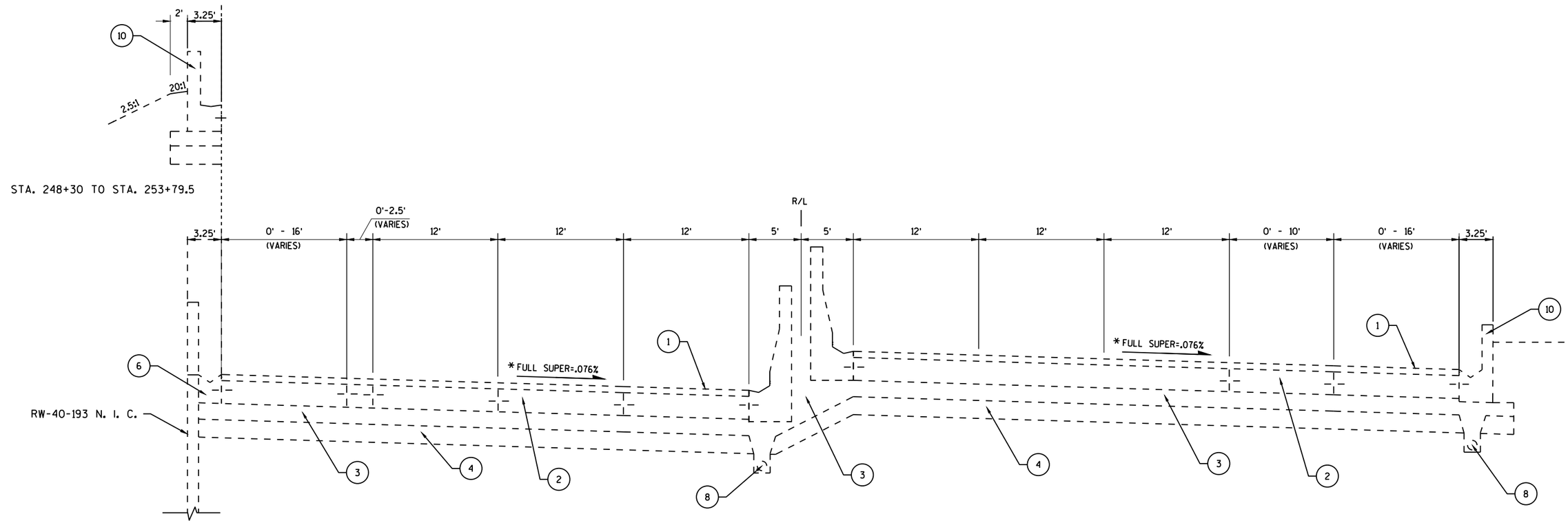


EXISTING TYPICAL SECTION
STH 794

STA. 223+00 TO STA. 245+00

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 14	E

2



LEGEND

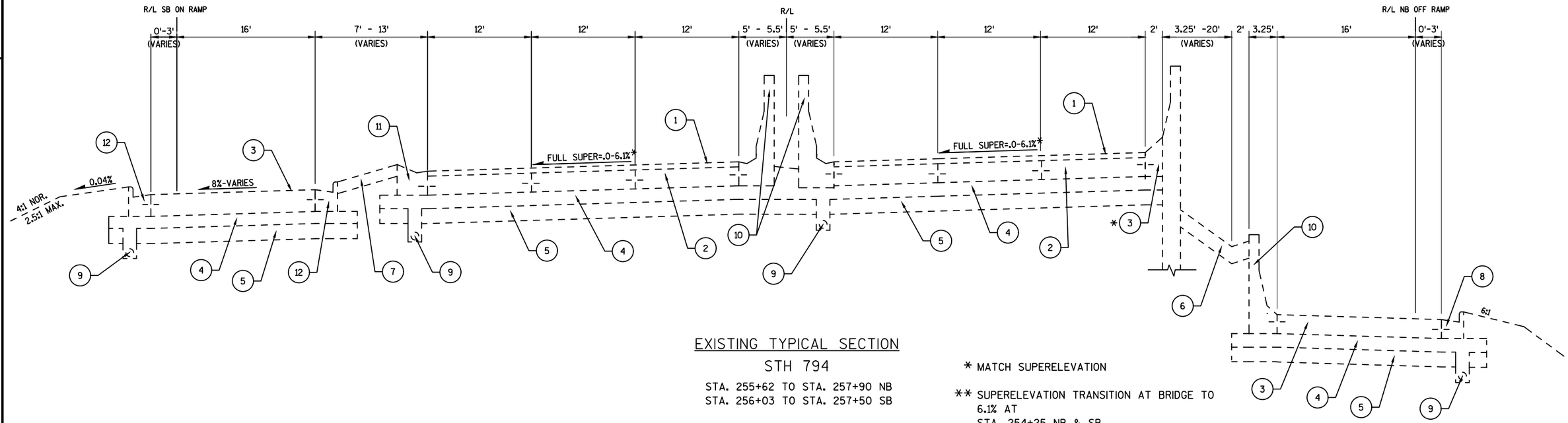
1. EXISTING HMA PAVEMENT, 2.5 - 3.5-INCH
2. EXISTING CONCRETE BASE 7-INCH
3. EXISTING C.A.B.C. OPEN GRADED, NO. 2, 4-INCH
4. EXISTING C.A.B.C., 6-INCH
5. EXISTING CONCRETE, SIDEWALK 5-INCH SPECIAL
6. EXISTING CONCRETE GUTTER 24-INCH (TYP.)
7. EXISTING CONCRETE CURB AND GUTTER 31-INCH SPECIAL (TYP.)
8. EXISTING PIPE UNDERDRAIN 6-INCH (TYP.)
9. EXISTING CONCRETE BARRIER, SINGLE-FACE (TYP.)
10. EXISTING CONCRETE BARRIER, SPECIAL (TYP.)

EXISTING TYPICAL SECTION

STH 794

STA. 245+00 TO STA. 253+79.5

* SUPERELEVATION TRANSITION TO 0.0% AT BRIDGE DECK
  STA. 252+75 TO STA. 253+79.5



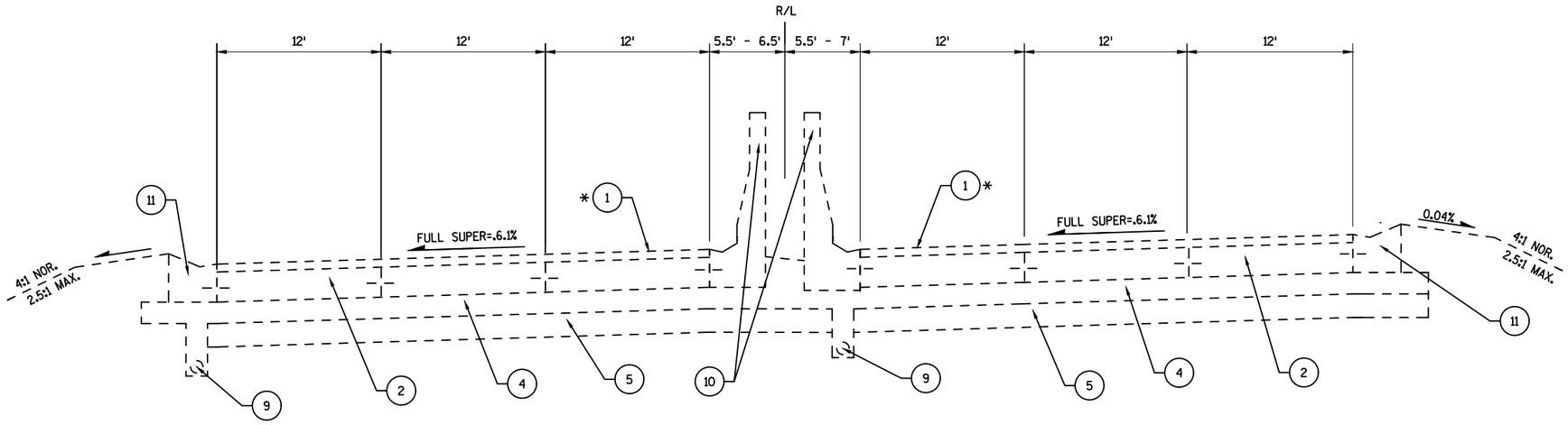
EXISTING TYPICAL SECTION

STH 794

STA. 255+62 TO STA. 257+90 NB
STA. 256+03 TO STA. 257+50 SB

* MATCH SUPERELEVATION

** SUPERELEVATION TRANSITION AT BRIDGE TO 6.1% AT
STA. 254+25 NB & SB



EXISTING TYPICAL SECTION

STH 794

STA. 257+92 TO STA. 260+13 NB
STA. 257+50 TO STA. 260+13 SB

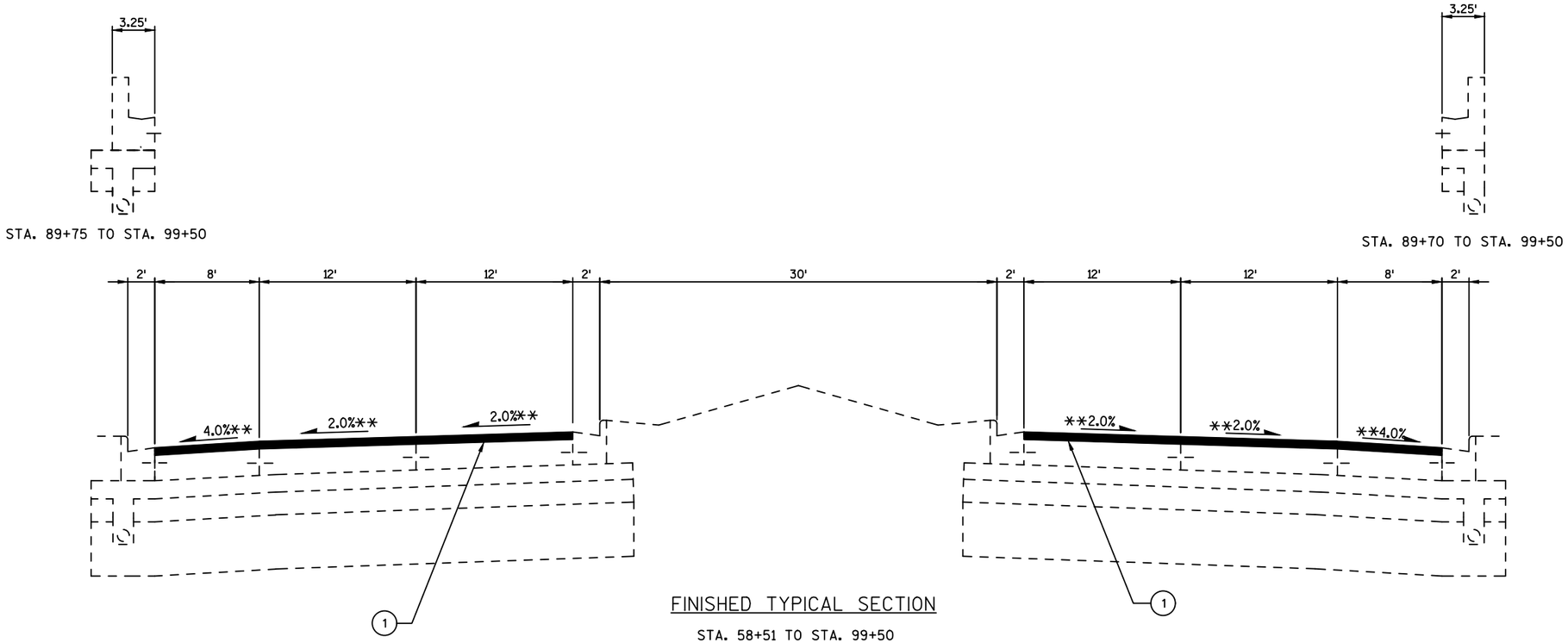
* STA. 260+13 TO STA. 260+58 NB
EXISTING CONCRETE PAVEMENT
10-INCH

STA. 255+62 TO STA. 256+03 SB
EXISTING CONCRETE PAVEMENT

LEGEND

1. EXISTING HMA PAVEMENT, 2.5 - 3.5-INCH
2. EXISTING CONCRETE BASE 7-INCH (DOWELED) (TYP.)
3. EXISTING CONCRETE PAVEMENT, 10-INCH (DOWELED)
4. EXISTING C.A.B.C. OPEN GRADED, NO. 2, 4-INCH (TYP.)
5. EXISTING C.A.B.C., 6-INCH (TYP.)
6. EXISTING C.AGGREGATE SLOPE PAVING, 6-INCH
7. EXISTING CONCRETE SIDEWALK, 4-INCH
8. EXISTING CONCRETE CURB AND GUTTER 31-INCH
9. EXISTING PIPE UNDERDRAIN 6-INCH (TYP.)
10. EXISTING CONCRETE BARRIER, SINGLE-FACED
11. EXISTING CONCRETE CURB AND GUTTER 36-INCH, SPECIAL (TYP.)
12. EXISTING CONCRETE CURB AND GUTTER 31-INCH, SPECIAL

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 16	E



FINISHED TYPICAL SECTION

STA. 58+51 TO STA. 99+50

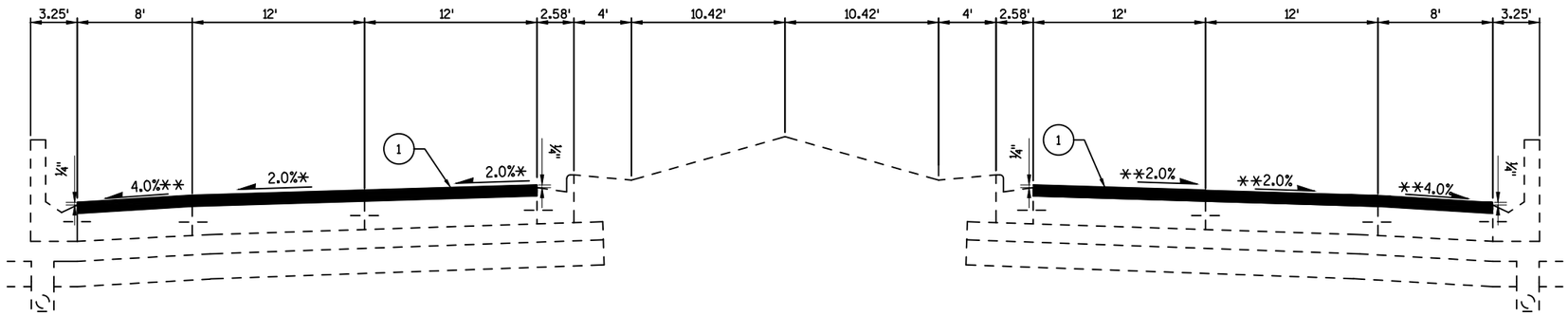
LEGEND

(1) MILL 4" HMA, PLACE 4" HMA

** 4% SUPERELEVATION
STA. 60+50 TO STA. 70+64, 4% ◣ NB & SB

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 17	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\020302_TS.DWG
LAYOUT NAME - 01
PLOT DATE : 10/23/2020 10:18 AM
PLOT BY : JACKSON, MARCUS P
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



FINISHED TYPICAL SECTION

STH 794

STA. 99+50 TO STA. 155+00

LEGEND

(1) MILL 3¼" PLACE 3½" HMA

* SUPERELEVATION TRANSITION FROM 2.0% TO 2.5%
STA. 145+10 TO STA. 145+50

** SUPERELEVATION TRANSITION FROM 2.0% TO 0.0%
STA. 141+75 TO STA. 143+50

SUPERELEVATION TRANSITION FROM 0.0% TO -2.0%
STA. 143+50 TO STA. 145+10

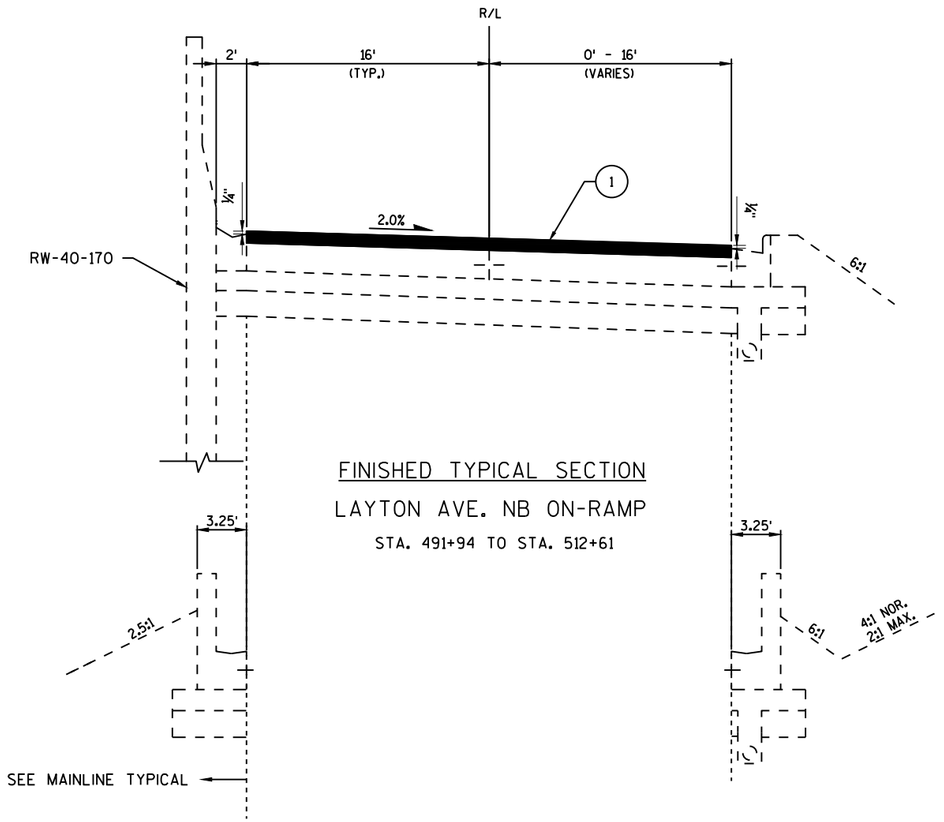
SUPERELEVATION TRANSITION FROM -2.0% TO -2.5%
STA. 145+10 TO STA. 145+50

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 18	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\020302_TS.DWG
LAYOUT NAME - 02

PLOT DATE : 10/23/2020 10:18 AM PLOT BY : JACKSON, MARCUS P PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42



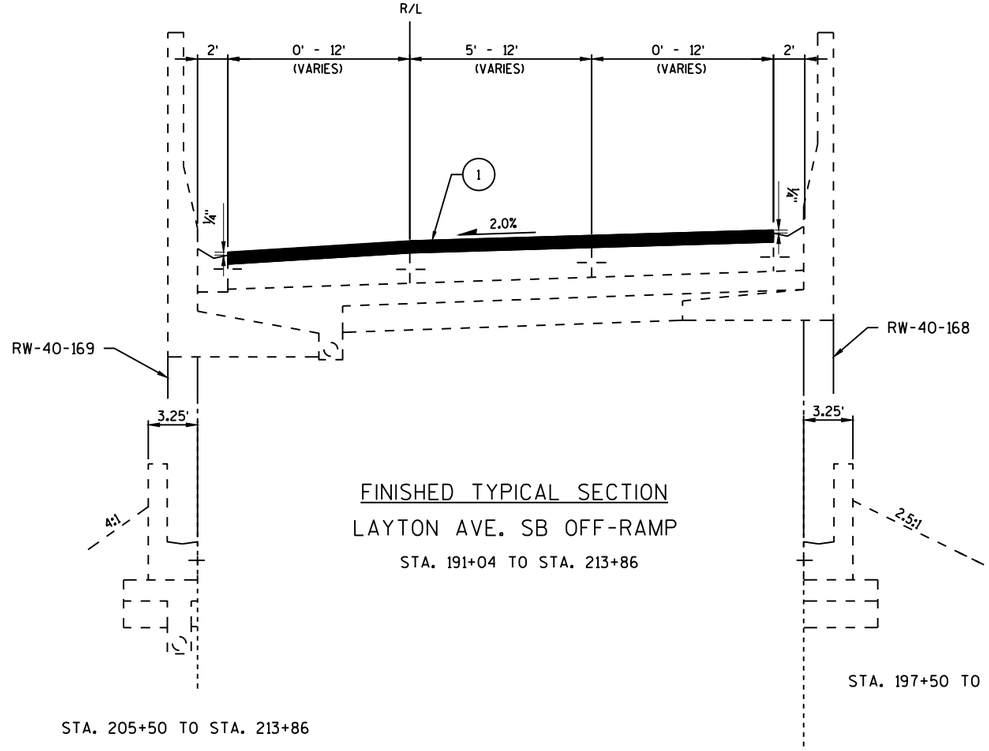
FINISHED TYPICAL SECTION

LAYTON AVE. NB ON-RAMP

STA. 491+94 TO STA. 512+61

STA. 496+21 TO STA. 499+56

STA. 496+75 TO STA. 512+61



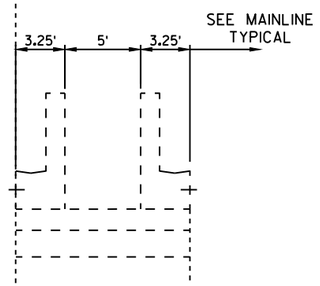
FINISHED TYPICAL SECTION

LAYTON AVE. SB OFF-RAMP

STA. 191+04 TO STA. 213+86

STA. 205+50 TO STA. 213+86

STA. 197+50 TO STA. 199+56

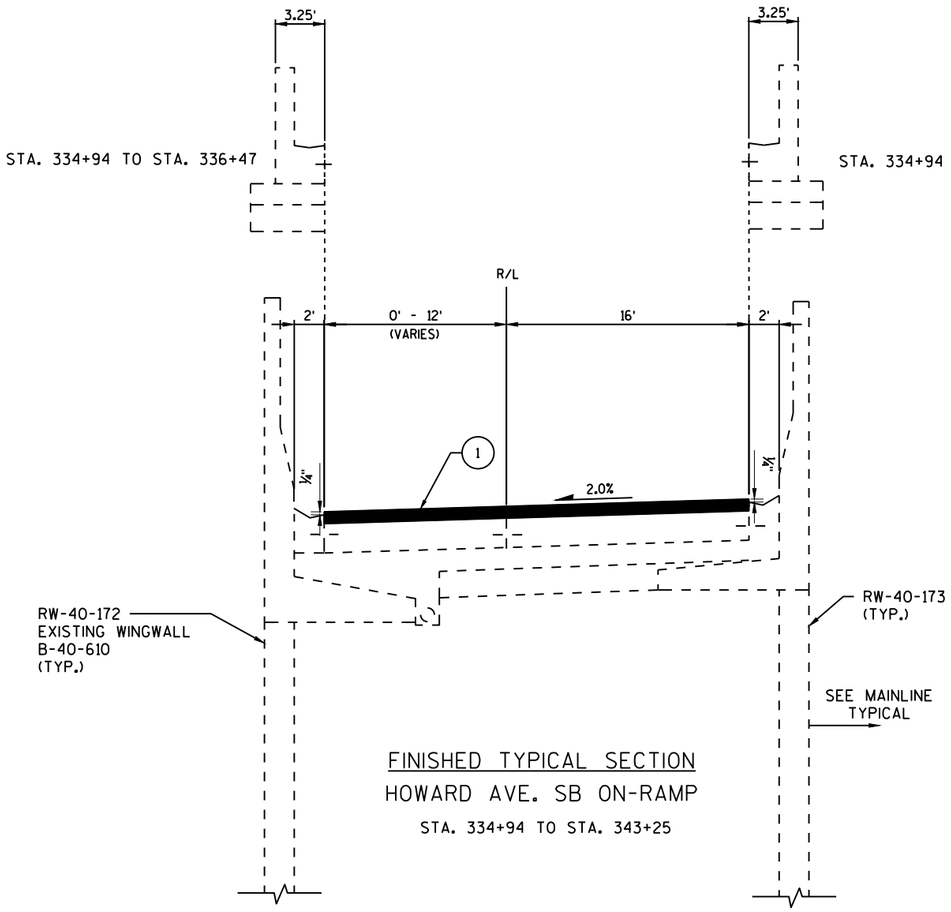


STA. 199+56 TO STA. 200+20

SEE MAINLINE TYPICAL FOR
STA. 200+20 TO STA. 213+86

LEGEND

(1) MILL 3¼" PLACE 3½" HMA

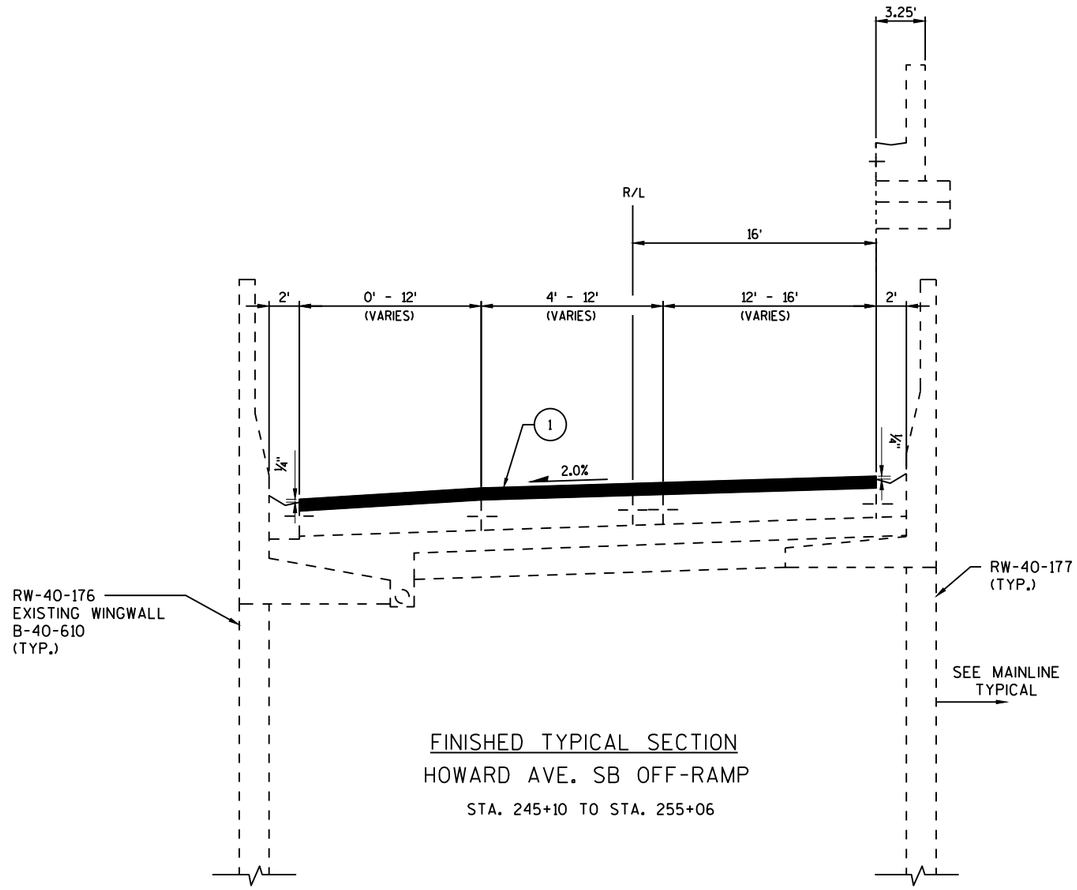


FINISHED TYPICAL SECTION

HOWARD AVE. SB ON-RAMP

STA. 334+94 TO STA. 343+25

STA. 334+94 TO STA. 336+45



FINISHED TYPICAL SECTION

HOWARD AVE. SB OFF-RAMP

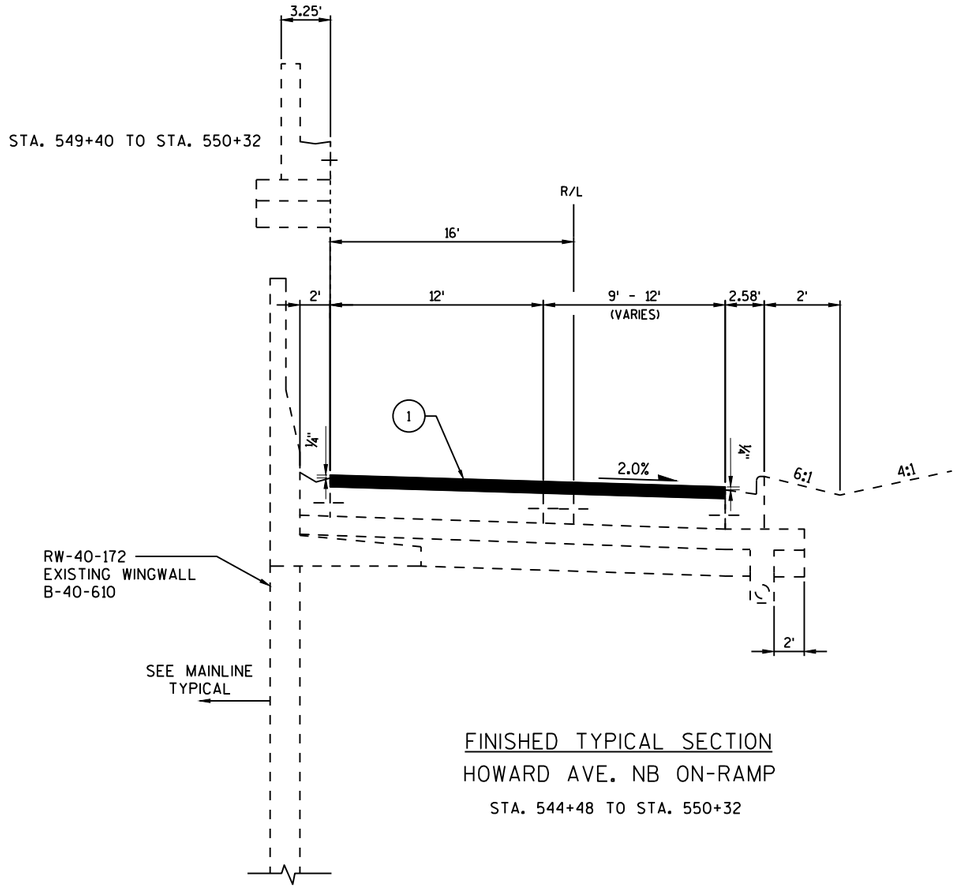
STA. 245+10 TO STA. 255+06

LEGEND

(1) MILL 3¼" PLACE 3½" HMA

* SUPERELEVATION TRANSITION FROM 2.0% TO -5.23%
STA. 342+00 TO STA. 343+25

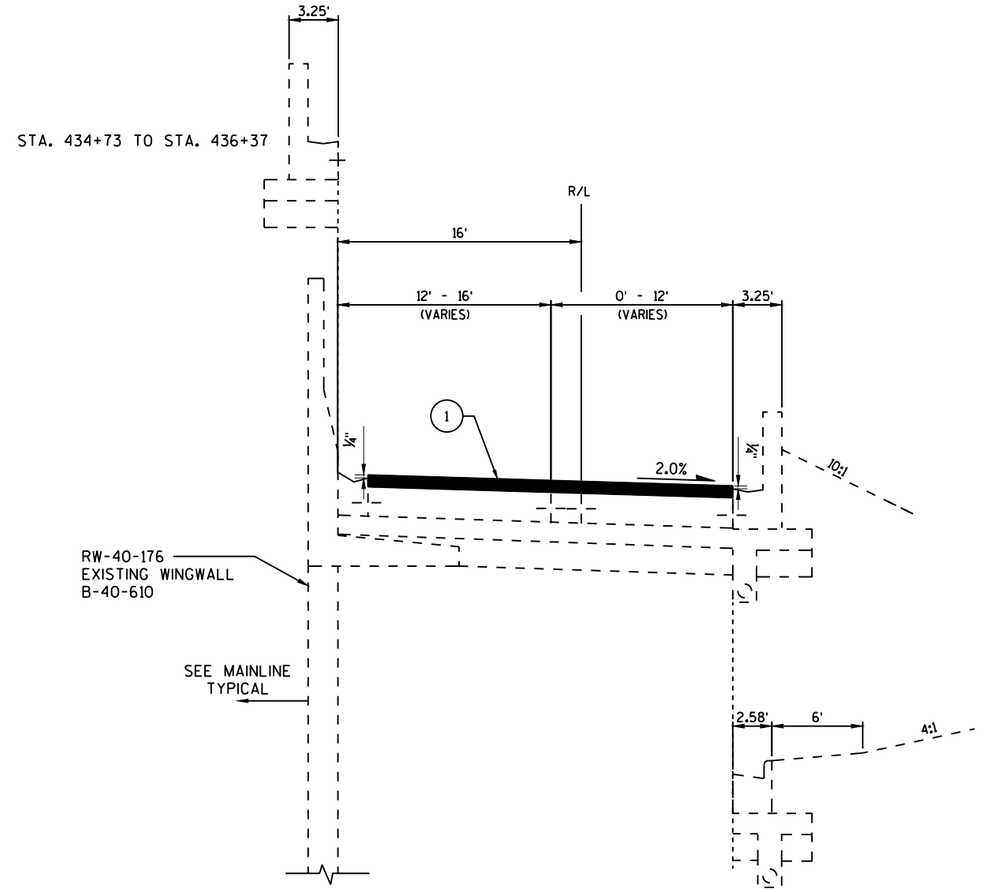
** SUPERELEVATION TRANSITION FROM -4.73% TO 2.0%
STA. 245+10 TO STA. 246+25



FINISHED TYPICAL SECTION

HOWARD AVE. NB ON-RAMP

STA. 544+48 TO STA. 550+32



STA. 438+00 TO STA. 443+00

LEGEND

(1) MILL 3¼" PLACE 3½" HMA

FINISHED TYPICAL SECTION

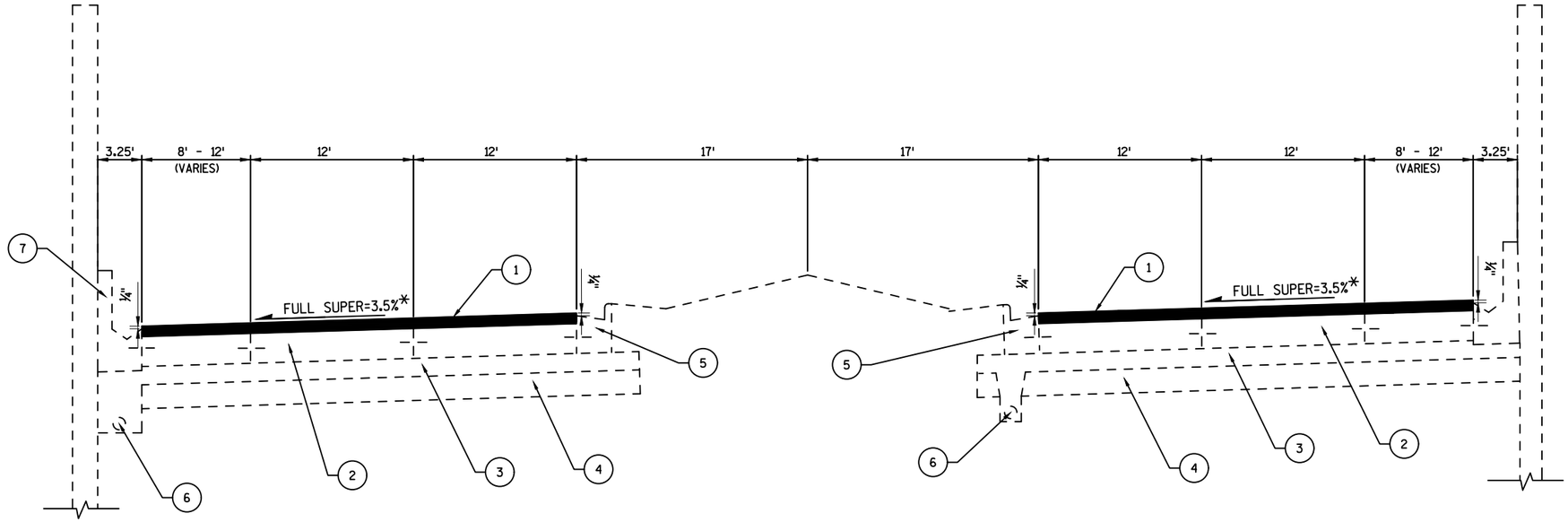
HOWARD AVE. NB OFF-RAMP

STA. 434+73 TO STA. 443+00

* SUPERELEVATION TRANSITION FROM 2.0% TO -3.64%
STA. 442+50 TO 443+00

SUPERELEVATION TRANSITION FROM -5.32% TO 2.0%
STA. 544+50 TO STA. 545+25

SUPERELEVATION TRANSITION FROM 2.0% TO -3.0%
STA. 548+35 TO STA. 550+00



FINISHED TYPICAL SECTION

STH 794

STA. 155+00 TO STA. 161+75
STA. 165+78 TO STA. 177+25

LEGEND

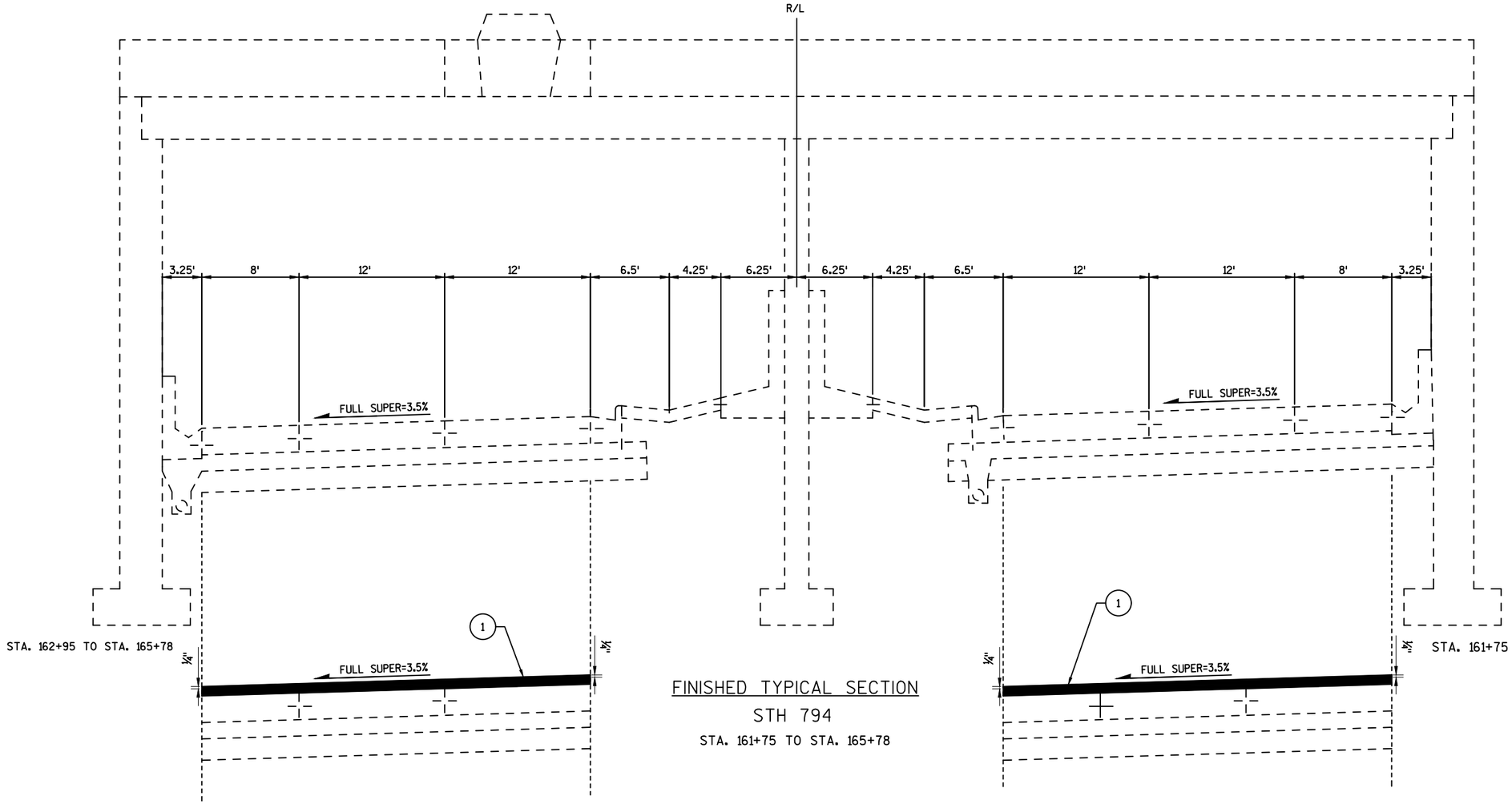
(1) MILL 3¼" PLACE 3½" HMA

* SUPERELEVATION = 2.5%
STA. 155+00 TO STA. 161+50

SUPERELEVATION TRANSITION FROM 2.5% TO 3.5%
STA. 160+50 TO STA. 161+50

SUPERELEVATION TRANSITION FROM 3.5% TO 2.0%
STA. 171+75 TO STA. 177+25
(SEE TYPICAL STARTING AT STA. 177+25)

2



STA. 161+75 TO STA. 162+95

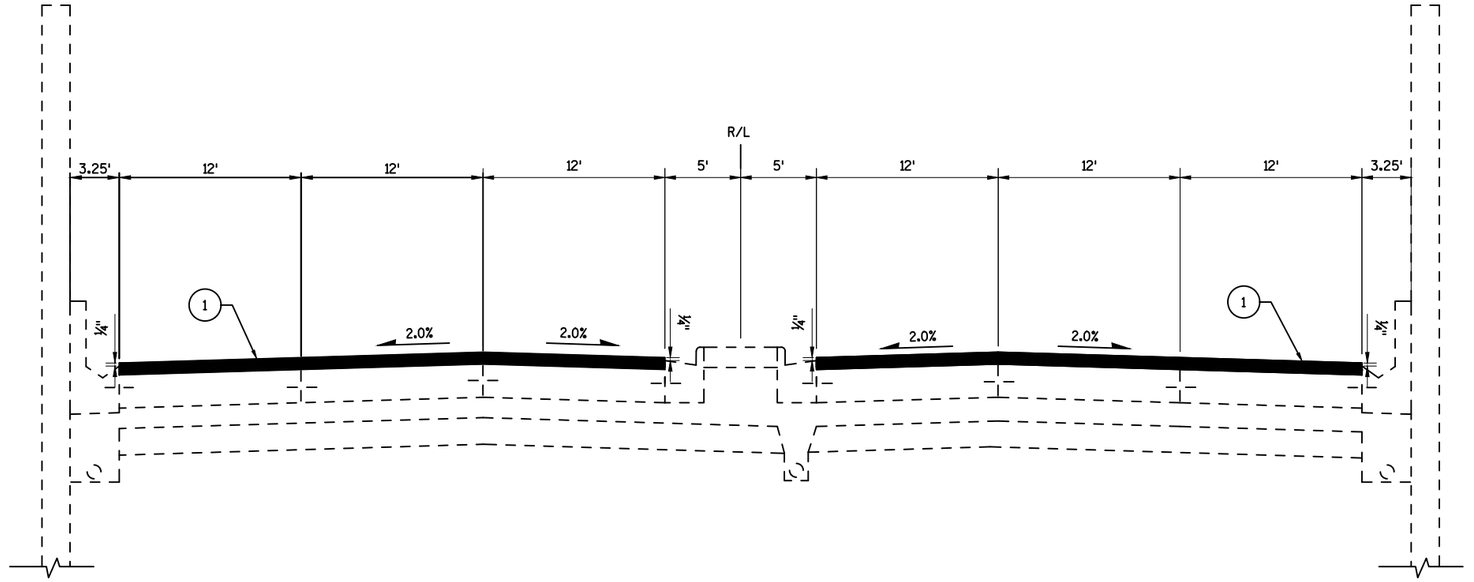
STA. 164+66 TO STA. 165+78

LEGEND

(1) MILL 3¼" PLACE 3½" HMA

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 23	E

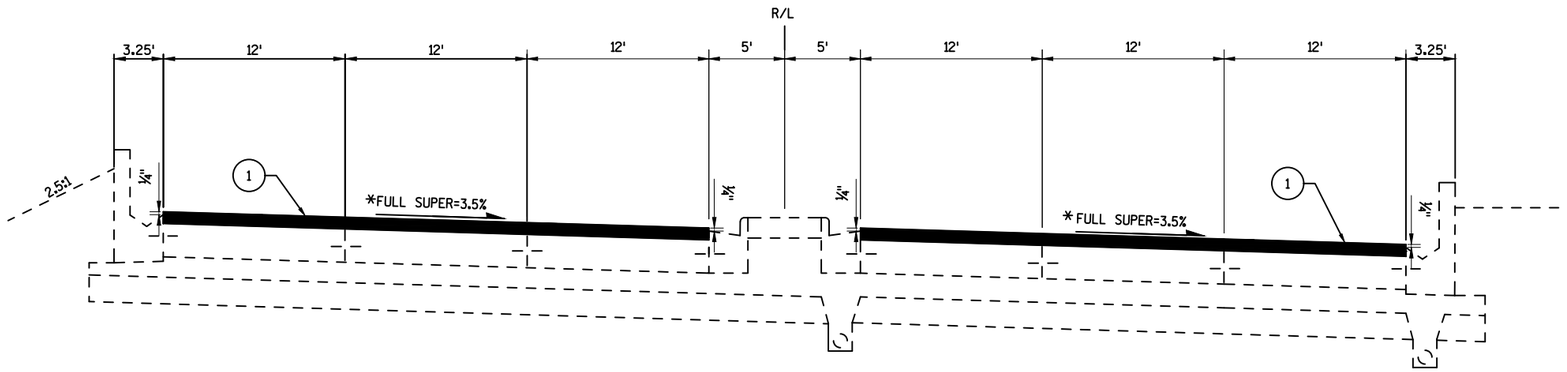
2



FINISHED TYPICAL SECTION

STH 794

STA. 177+25 TO STA. 181+85, LT.
STA. 177+25 TO STA. 180+60, RT.



LEGEND

(1) MILL 3¼" PLACE 3½" HMA

FINISHED TYPICAL SECTION

STH 794

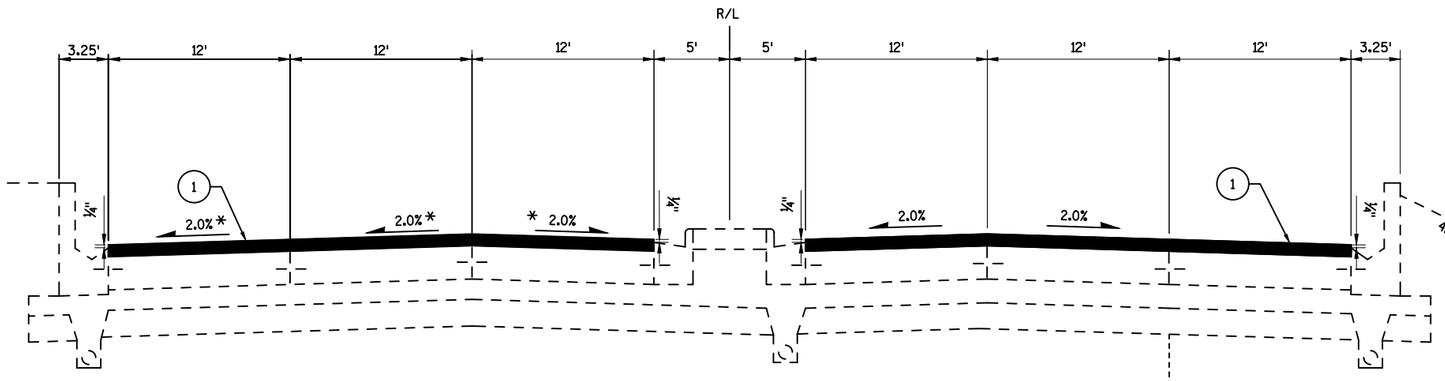
STA. 181+85 TO STA. 194+25 SB
STA. 180+60 TO STA. 196+00 NB

* SUPERELEVATION TRANSITION
STA. 180+50 TO STA. 183+00

SUPERELEVATION TRANSITION FROM 2.0% TO 3.5%
STA. 180+50 TO STA. 183+00

SUPERELEVATION TRANSITION FROM 3.5% TO 2.0%
(SEE TYPICAL STARTING AT STA. 194+25 SB, STA. 196+00 NB)
STA. 191+00 TO STA. 194+25 SB
STA. 192+75 TO STA. 196+00 NB

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 24	E

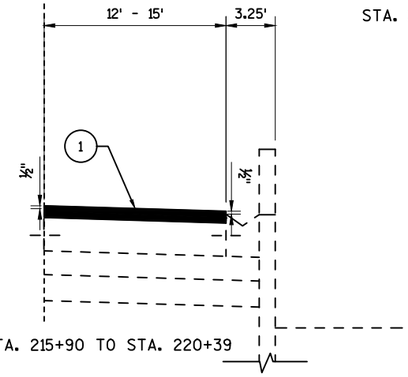


* SUPERELEVATION TRANSITION TO 3.5%
STA. 202+75 TO STA. 206+00 SB

FULL SUPER 3.5%
STA. 206+00 TO STA. 207+75 SB

SUPERELEVATION TRANSITION TO 2.0%
STA. 207+75 TO STA. 211+00 SB

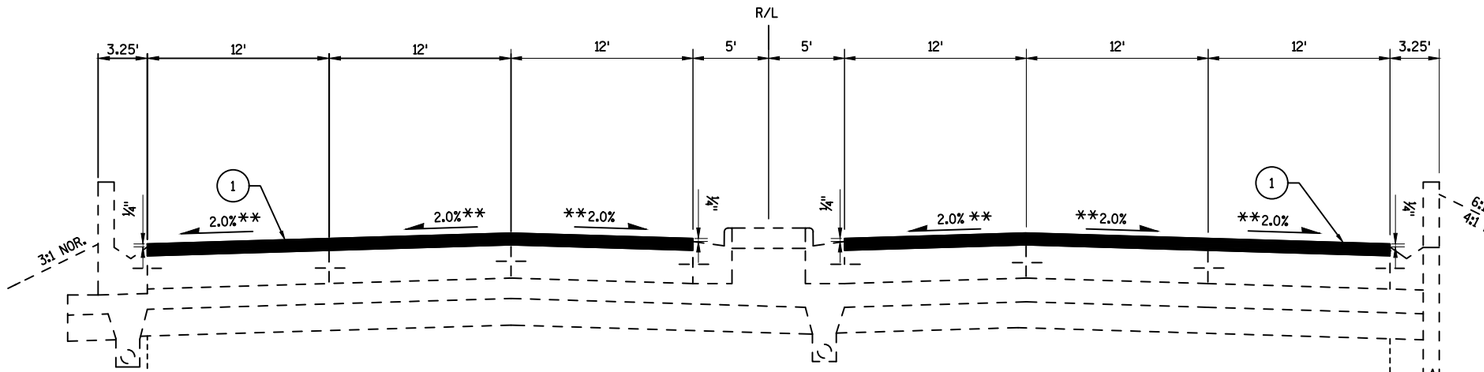
STA. 206+00 TO STA. 214+00



STA. 215+90 TO STA. 220+39

FINISHED TYPICAL SECTION
STH 794
STA. 194+25 TO STA. 223+00 SB
STA. 196+00 TO STA. 223+00 NB

LEGEND
(1) MILL 3¼" PLACE 3½" HMA



** SUPERELEVATION TRANSITION TO 2.2%
STA. 223+00 TO STA. 226+75

FULL SUPERELEVATION 2.2%
STA. 226+75 TO STA. 228+00

SUPERELEVATION TRANSITION TO 2.0%
STA. 228+00 TO STA. 231+75

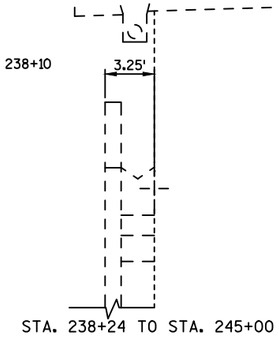
SUPERELEVATION TRANSITION TO 7.6%
STA. 242+00 TO STA. 245+00
(SEE TYPICAL STARTING W/ STA. 245+00
FOR FULL SUPERELEVATION)

STA. 231+75 TO STA. 238+10

STA. 231+75 TO STA. 236+90
STA. 238+10 TO STA. 242+00

STA. 242+45 TO STA. 245+00

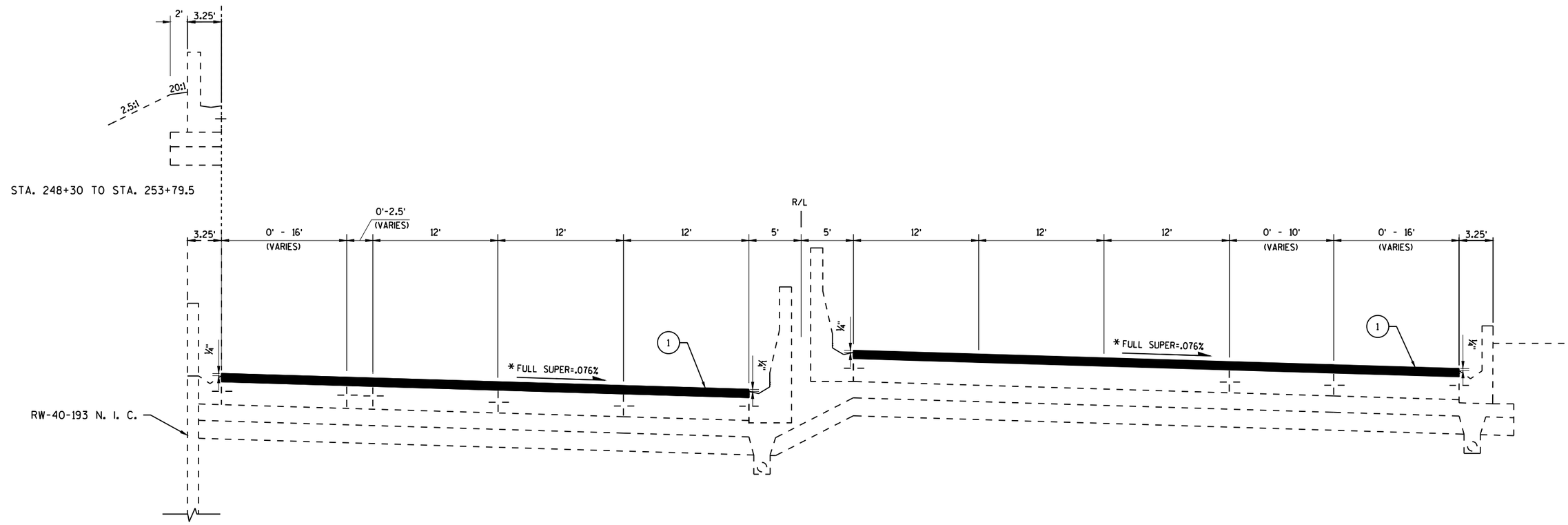
FINISHED TYPICAL SECTION
STH 794
STA. 223+00 TO STA. 245+00



STA. 238+24 TO STA. 245+00

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 25	E

2



FINISHED TYPICAL SECTION

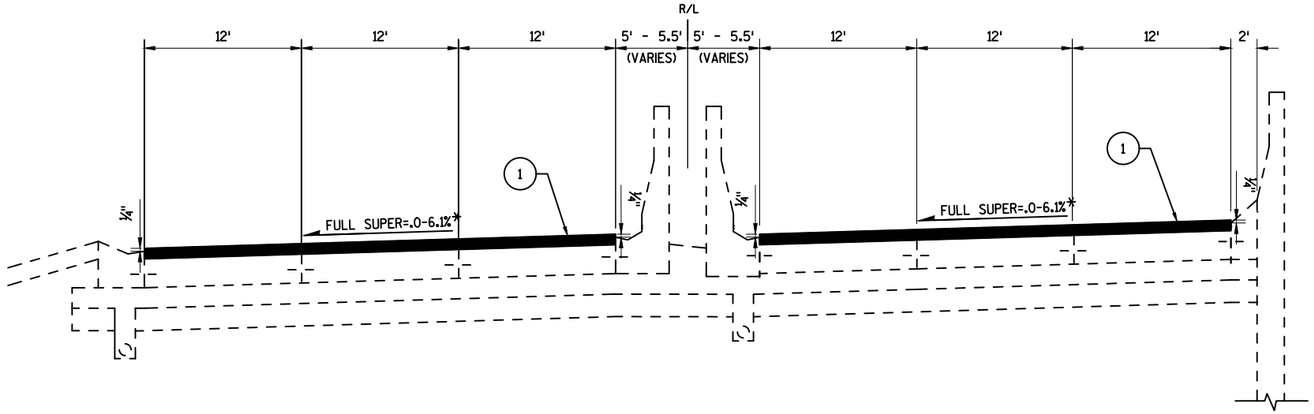
STH 794

STA. 245+00 TO STA. 253+79.5

LEGEND

(1) MILL 3¼" PLACE 3½" HMA

* SUPERELEVATION TRANSITION TO 0.0% AT BRIDGE DECK
STA. 252+75 TO STA. 253+79.5



FINISHED TYPICAL SECTION

STH 794

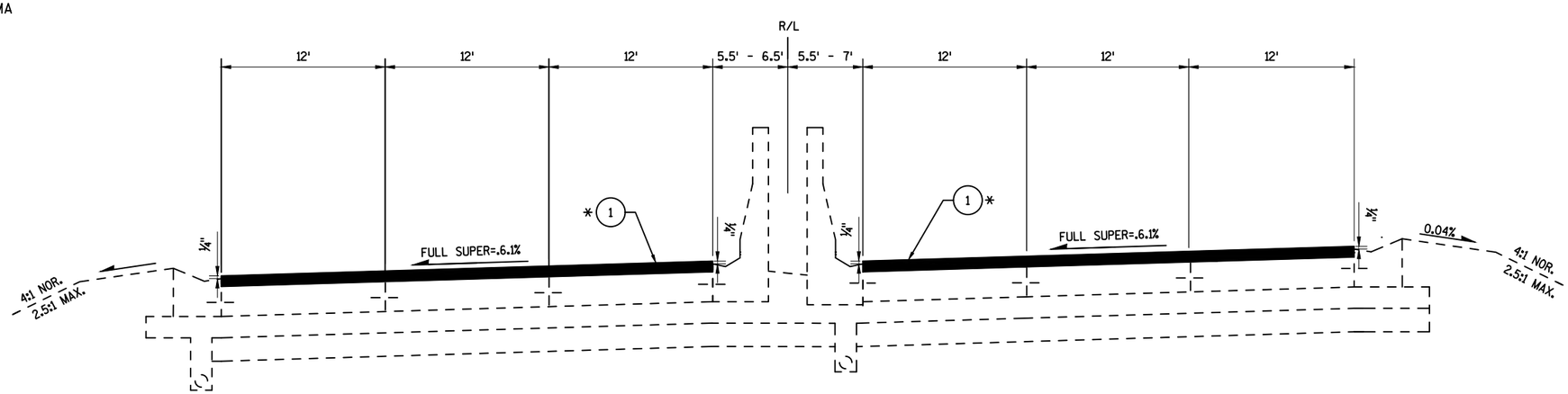
STA. 255+62 TO STA. 257+90 NB
STA. 256+03 TO STA. 257+50 SB

* MATCH SUPERELEVATION

** SUPERELEVATION TRANSITION AT BRIDGE TO 6.1% AT
STA. 254+25 NB & SB

LEGEND

(1) MILL 3¼" PLACE 3½" HMA



FINISHED TYPICAL SECTION

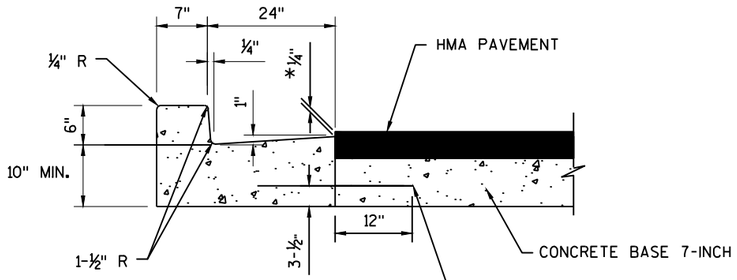
STH 794

STA. 257+92 TO STA. 260+13 NB
STA. 257+50 TO STA. 260+13 SB

* STA. 260+13 TO STA. 260+58 NB
EXISTING CONCRETE PAVEMENT

STA. 255+62 TO STA. 256+03 SB
EXISTING CONCRETE PAVEMENT

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 27	E



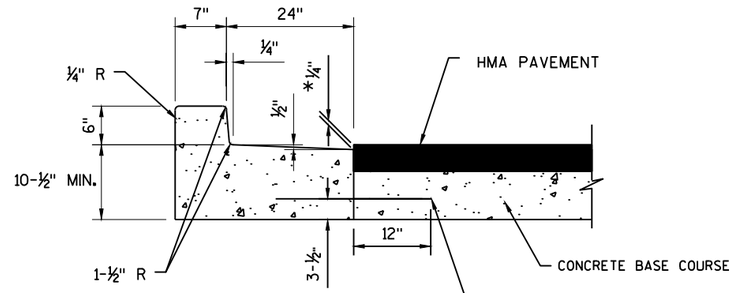
* STA. 58+51 TO STA. 99+50 HMA PAVEMENT
TO MATCH FLANGE ELEVATION

NOTES

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

2) TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.

HES CONCRETE CURB & GUTTER 31-INCH SPECIAL



* STA. 58+51 TO STA. 99+50 HMA PAVEMENT
TO MATCH FLANGE ELEVATION

NOTES

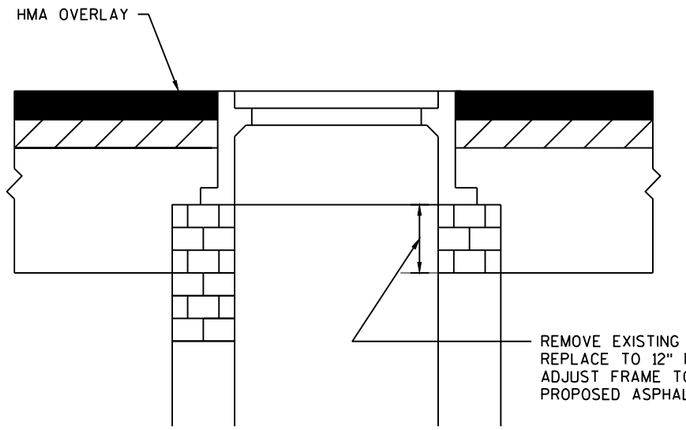
1) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED THE MINIMUM THICKNESS IS MAINTAINED.

2) TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.

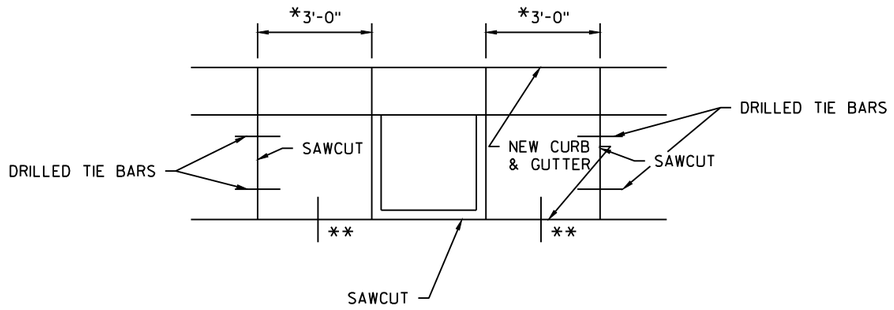
HES CONCRETE CURB & GUTTER 31-INCH SPECIAL

HIGH SIDE SECTION

2



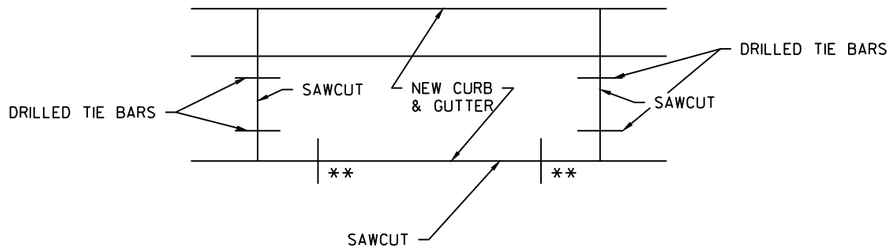
ADJUSTING / REPLACING INLET COVERS
SECTION VIEW



ADJUSTING / REPLACING INLET COVERS
PLAN VIEW

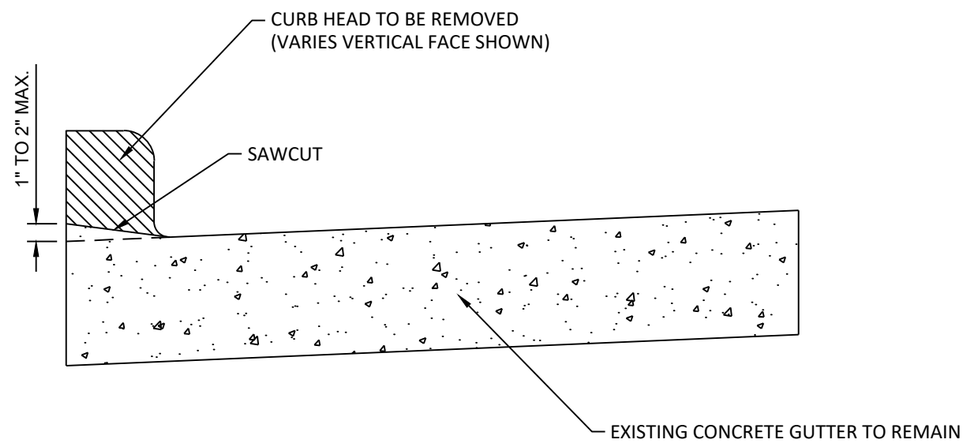
*REMOVE 3'-0" CURB & GUTTER MIN. OR TO THE NEAREST JOINT 6'-0" MAX. UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

** DRILLED TIE BARS ALONG ML SEE SDD 13C9 FOR SPACING



CURB AND GUTTER REPLACEMENT
PLAN VIEW

2

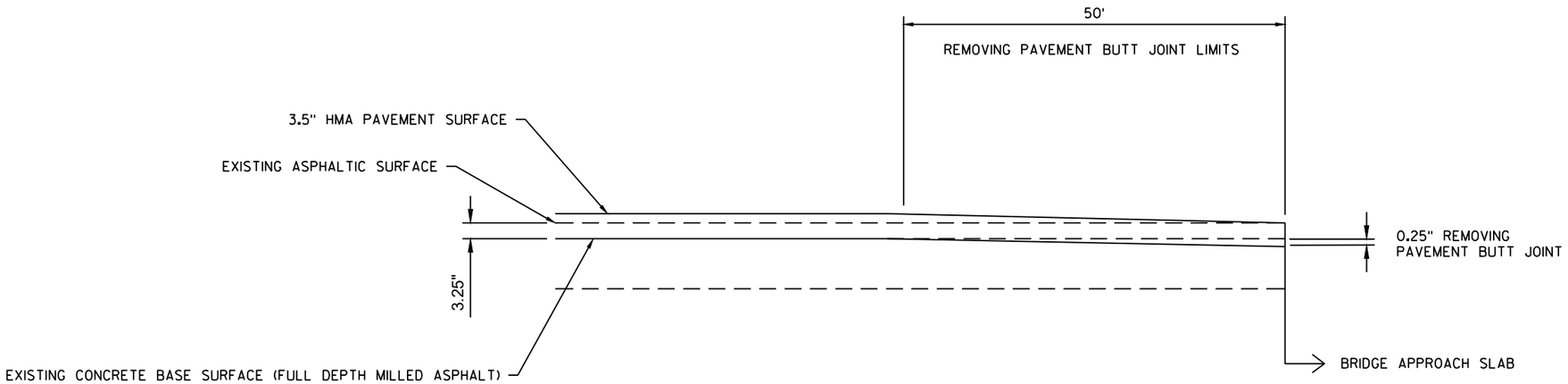


SAWING CONCRETE CURB HEAD

STH 794

TRANSITION FROM SAWED\REMOVED CURB HEAD TO EXISTING CURB HEAD
OVER 4 FEET
TRANSITION PAID AS SAWING CONCRETE CURB HEAD

2



REMOVING PAVEMENT BUTT JOINT DETAIL

STH 794

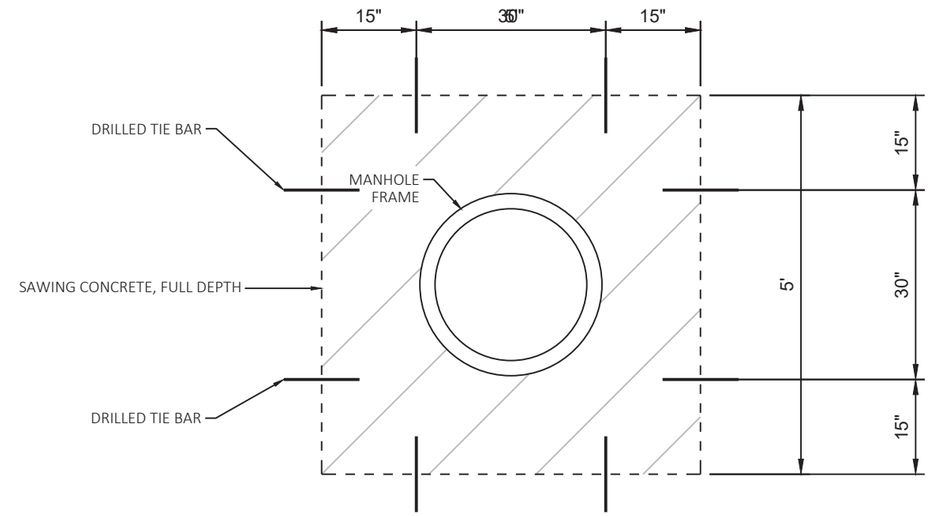
STA 99+50 TO 260+13 LT & RT –

LOCATED AT ALL MATCH POINTS AND STRUCTURE LOCATIONS

FINAL LOCATION TO BE DETERMINED BY ENGINEER IN THE FIELD

2

REMOVING PAVEMENT (INCIDENTAL TO ADJUSTING/RECONSTRUCTING MANHOLE)

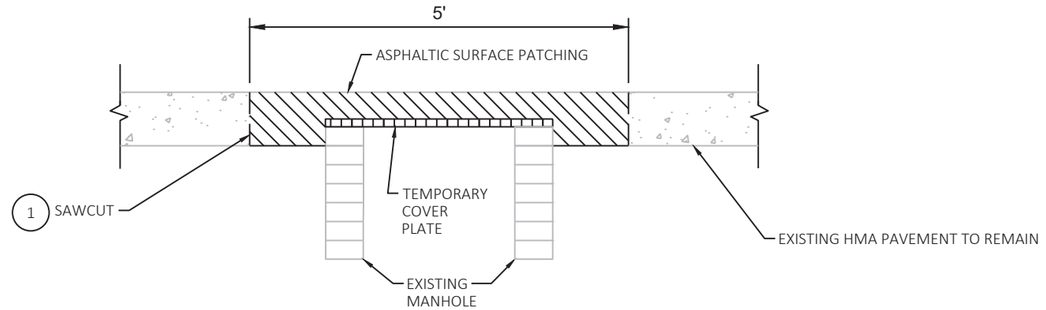


PLAN VIEW

STEP 1

PRIOR TO REMOVING ASPHALTIC SURFACE PARTIAL DEPTH:

- SAW PAVEMENT FULL DEPTH
- SALVAGE* OR REMOVE MANHOLE COVER
- FURNISH AND INSTALL TEMPORARY COVER PLATE
- BACKFILL USING ASPHALT SURFACE PATCHING

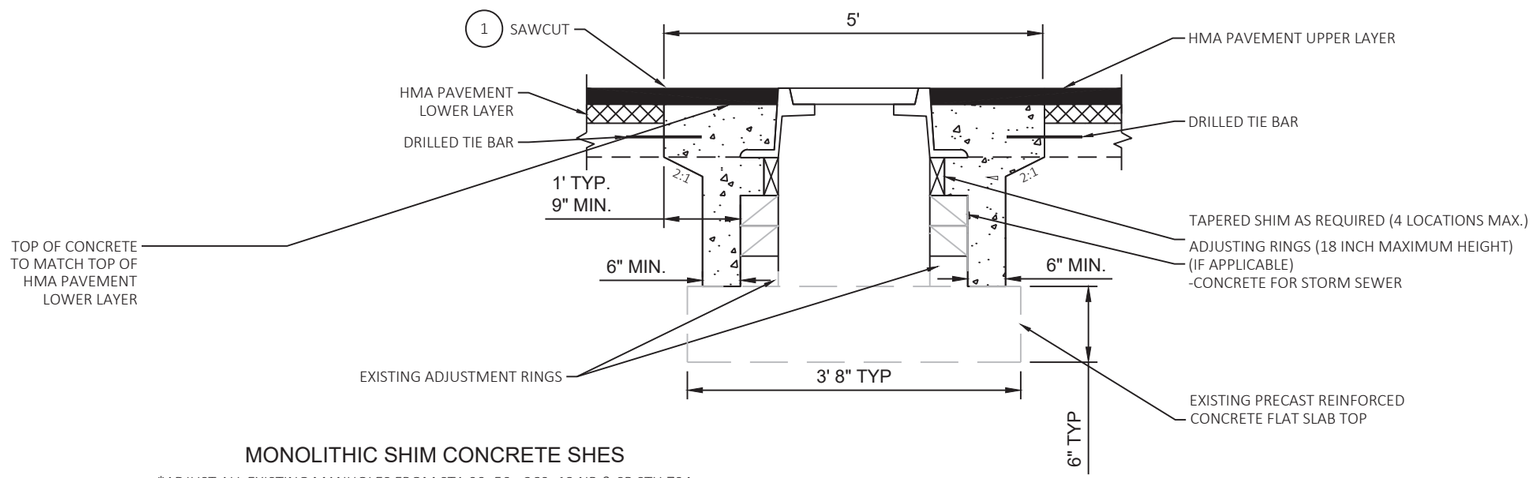


STEP 2

AFTER PAVING LOWER LAYER:

- EXCAVATE AND REMOVE TEMPORARY COVER PLATE
- ADJUST AND REINSTALL SALVAGED MANHOLE FRAME OR INSTALL NEW CASTING AND COVER USING MONOLITHIC CONCRETE SHIM

ALL WORK EXCEPT ASPHALT PATCHING, SAWING CONCRETE, DRILLED TIE BARS, AND INSTALLATION AND
REMOVAL OF TEMPORARY COVER PLATE IS INCLUDED IN THE COST OF ADJUSTING MANHOLE COVERS.



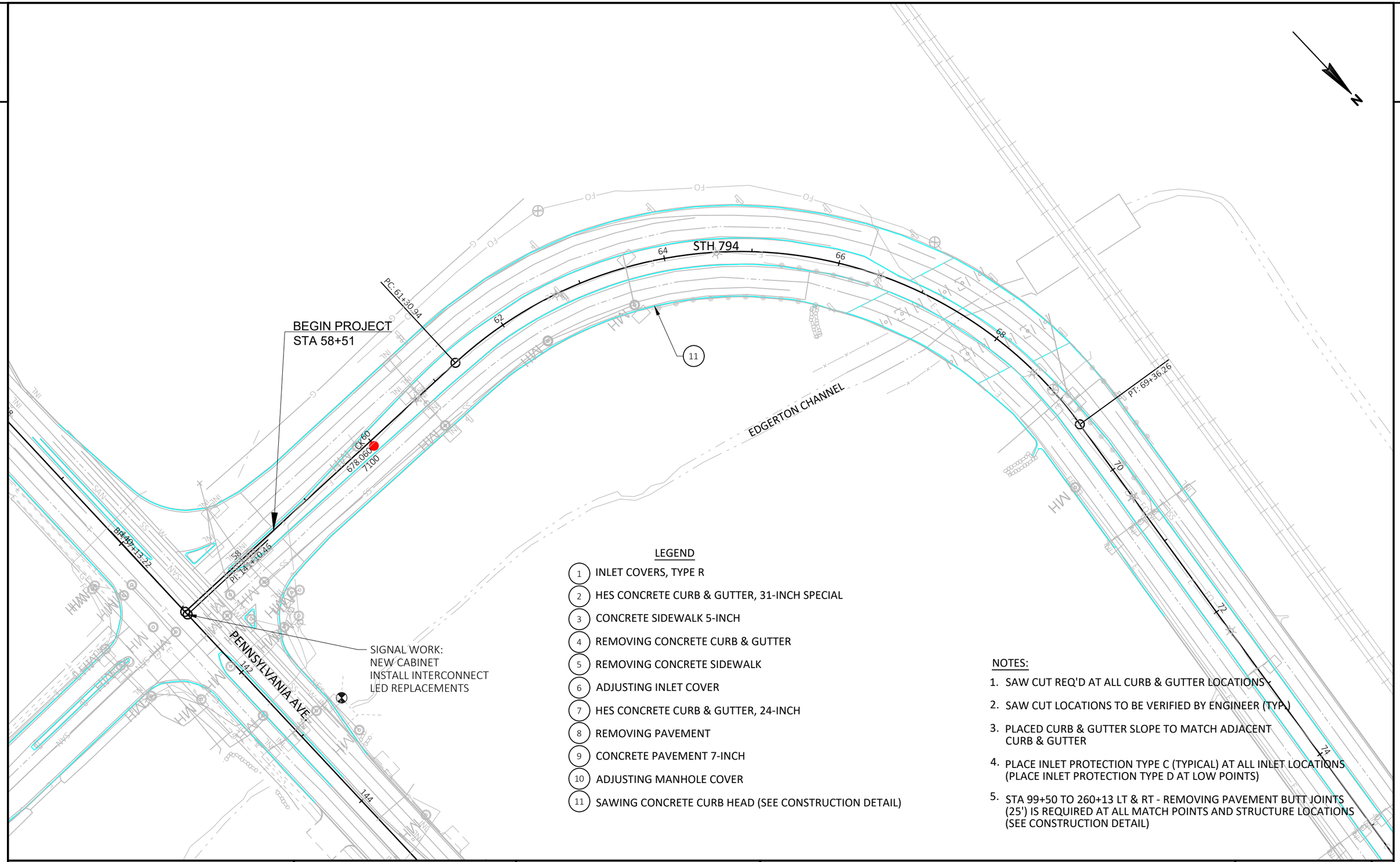
MONOLITHIC SHIM CONCRETE SHES

*ADJUST ALL EXISTING MANHOLES FROM STA 99+50 - 260+13 NB & SB STH 794

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\021001_CD.DWG
LAYOUT NAME - 07
PLOT DATE : 11/18/2020 1:27 PM
PLOT BY : STARK, GARY W
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2



LEGEND

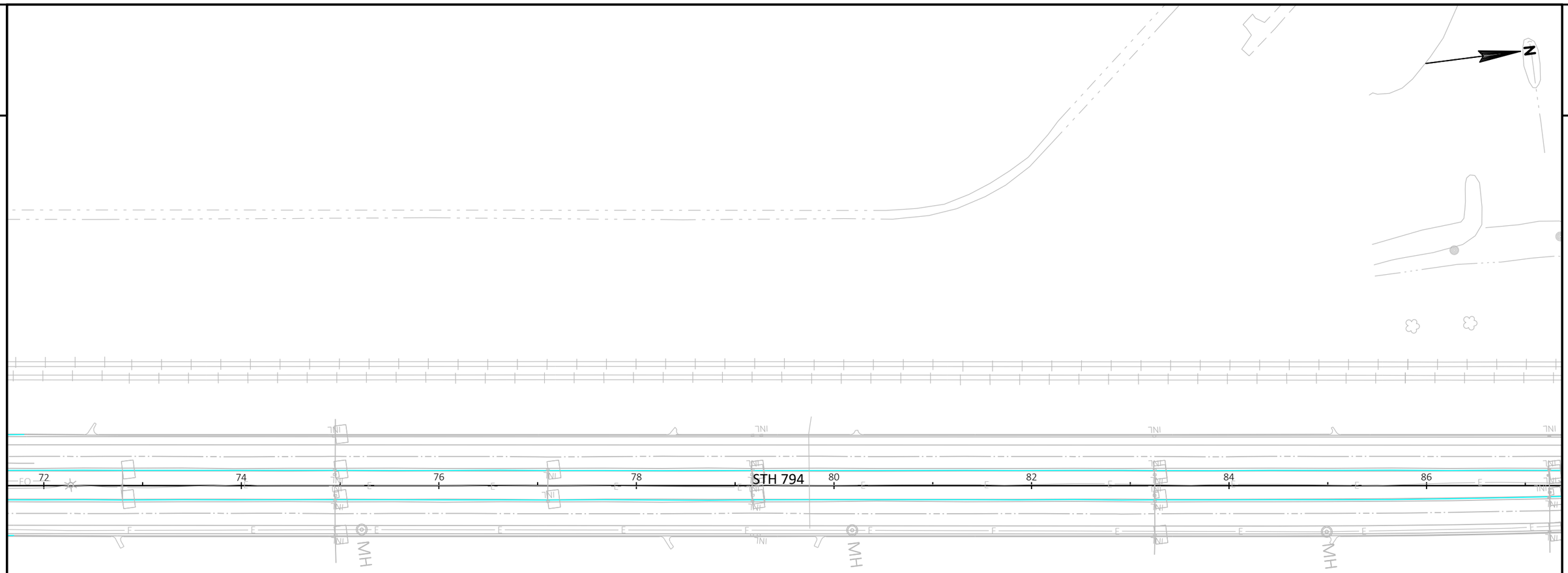
1. INLET COVERS, TYPE R
2. HES CONCRETE CURB & GUTTER, 31-INCH SPECIAL
3. CONCRETE SIDEWALK 5-INCH
4. REMOVING CONCRETE CURB & GUTTER
5. REMOVING CONCRETE SIDEWALK
6. ADJUSTING INLET COVER
7. HES CONCRETE CURB & GUTTER, 24-INCH
8. REMOVING PAVEMENT
9. CONCRETE PAVEMENT 7-INCH
10. ADJUSTING MANHOLE COVER
11. SAWING CONCRETE CURB HEAD (SEE CONSTRUCTION DETAIL)

NOTES:

1. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
2. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
3. PLACED CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
4. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)
5. STA 99+50 TO 260+13 LT & RT - REMOVING PAVEMENT BUTT JOINTS (25') IS REQUIRED AT ALL MATCH POINTS AND STRUCTURE LOCATIONS (SEE CONSTRUCTION DETAIL)

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 33	E

2



LEGEND

1. INLET COVERS, TYPE R
2. HES CONCRETE CURB & GUTTER, 31-INCH SPECIAL
3. CONCRETE SIDEWALK 5-INCH
4. REMOVING CONCRETE CURB & GUTTER
5. REMOVING CONCRETE SIDEWALK
6. ADJUSTING INLET COVER
7. HES CONCRETE CURB & GUTTER, 24-INCH
8. REMOVING PAVEMENT
9. CONCRETE PAVEMENT 7-INCH
10. ADJUSTING MANHOLE COVER
11. SAWING CONCRETE CURB HEAD (SEE CONSTRUCTION DETAIL)

NOTES:

1. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
2. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
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4. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)
5. STA 99+50 TO 260+13 LT & RT - REMOVING PAVEMENT BUTT JOINTS (25') IS REQUIRED AT ALL MATCH POINTS AND STRUCTURE LOCATIONS (SEE CONSTRUCTION DETAIL)

2

2

BP: 491+00.00

PC: 491+77.72

PT: 493+51.18

BP: 190+48.47

PAVING LIMITS
STA 191+05

PC: 90+69.38

PT: 95+53.67

BP: 95+77.30

BP: 48+30.00

EXISTING CRASH
CUSHION TO REMAIN

PC: 99+76.75

PT: 496+27.85

STH 794

S.T.H. 794

PC: 499+56.40

PC: 496+76.20

PAVING LIMITS
STA 491+05

LAYTON AVE.

WHITNALL AVE.

P.I.: 498+21.56

PC: 499+87.90

P.I.: 54+33.31

REMOVE/INSTALL
TRAFFIC
CHANNELIZING CURB
SYSTEM

LEGEND

1. INLET COVERS, TYPE R
2. HES CONCRETE CURB & GUTTER, 31-INCH SPECIAL
3. CONCRETE SIDEWALK 5-INCH
4. REMOVING CONCRETE CURB & GUTTER
5. REMOVING CONCRETE SIDEWALK
6. ADJUSTING INLET COVER
7. HES CONCRETE CURB & GUTTER, 24-INCH
8. REMOVING PAVEMENT
9. CONCRETE PAVEMENT 7-INCH
10. ADJUSTING MANHOLE COVER
11. SAWING CONCRETE CURB HEAD (SEE CONSTRUCTION DETAIL)

NOTES:

1. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
2. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
3. PLACED CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
4. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)
5. STA 99+50 TO 260+13 LT & RT - REMOVING PAVEMENT BUTT JOINTS (25') IS REQUIRED AT ALL MATCH POINTS AND STRUCTURE LOCATIONS (SEE CONSTRUCTION DETAIL)

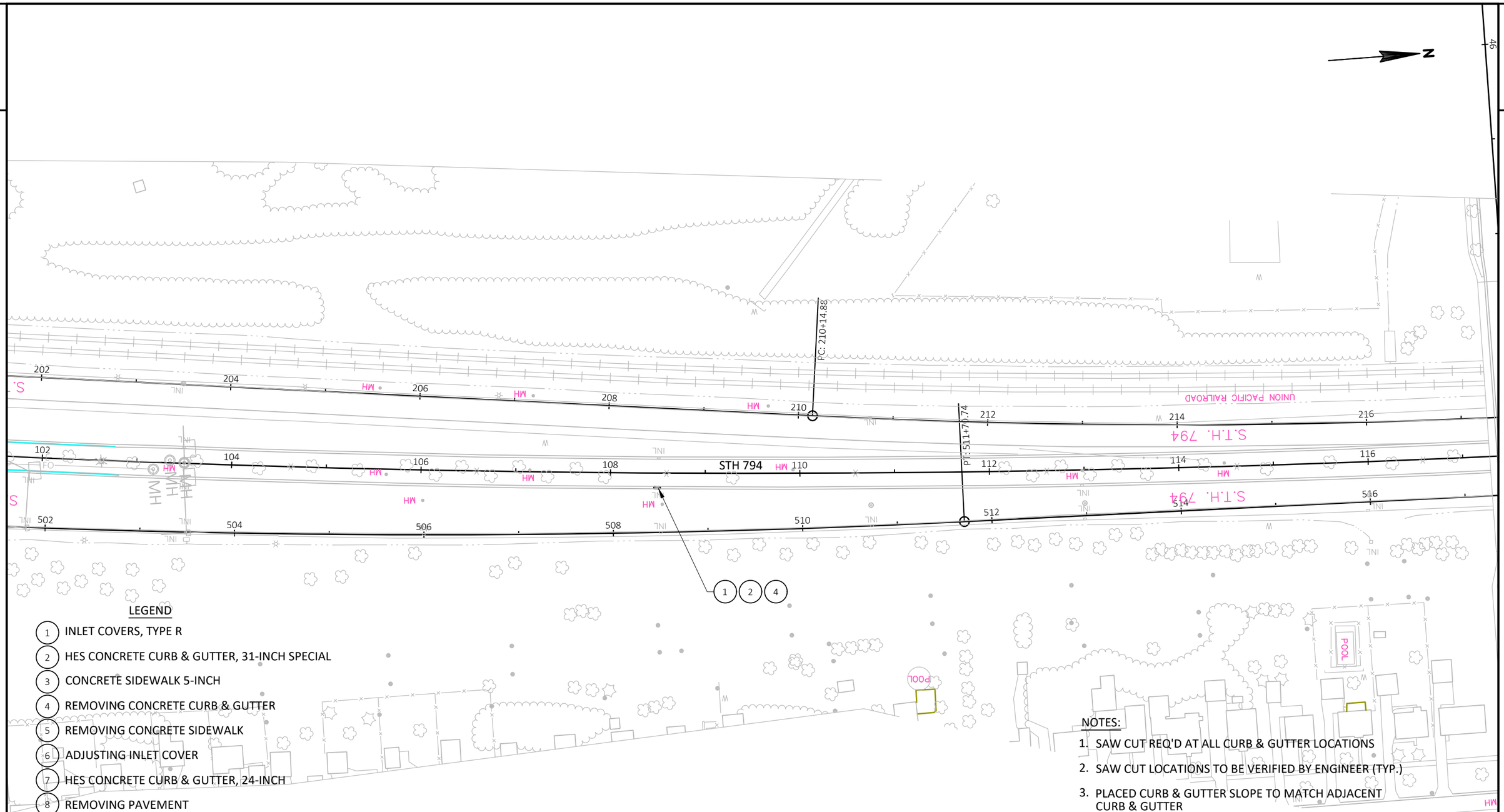
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 35	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 020103_pd

PLOT DATE : 11/18/2020 12:49 PM PLOT BY : STARK, GARY W PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

1. INLET COVERS, TYPE R
2. HES CONCRETE CURB & GUTTER, 31-INCH SPECIAL
3. CONCRETE SIDEWALK 5-INCH
4. REMOVING CONCRETE CURB & GUTTER
5. REMOVING CONCRETE SIDEWALK
6. ADJUSTING INLET COVER
7. HES CONCRETE CURB & GUTTER, 24-INCH
8. REMOVING PAVEMENT
9. CONCRETE PAVEMENT 7-INCH
10. ADJUSTING MANHOLE COVER
11. SAWING CONCRETE CURB HEAD (SEE CONSTRUCTION DETAIL)

NOTES:

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2. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
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4. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)
5. STA 99+50 TO 260+13 LT & RT - REMOVING PAVEMENT BUTT JOINTS (25') IS REQUIRED AT ALL MATCH POINTS AND STRUCTURE LOCATIONS (SEE CONSTRUCTION DETAIL)

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 36	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 020104_pd
PLOT DATE : 11/18/2020 12:49 PM
PLOT BY : STARK, GARY W
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

BOLIVAR AVE.

STH 794

S.T.H. 794

PACIFIC RAILROAD

EP: 217+47.70

EP: 517+97.22

BP: 319+56.46

BP: 427+40.73

PC: 432+03.30

EP: 54+06.77

LEGEND

1. INLET COVERS, TYPE R
2. HES CONCRETE CURB & GUTTER, 31-INCH SPECIAL
3. CONCRETE SIDEWALK 5-INCH
4. REMOVING CONCRETE CURB & GUTTER
5. REMOVING CONCRETE SIDEWALK
6. ADJUSTING INLET COVER
7. HES CONCRETE CURB & GUTTER, 24-INCH
8. REMOVING PAVEMENT
9. CONCRETE PAVEMENT 7-INCH
10. ADJUSTING MANHOLE COVER
11. SAWING CONCRETE CURB HEAD (SEE CONSTRUCTION DETAIL)

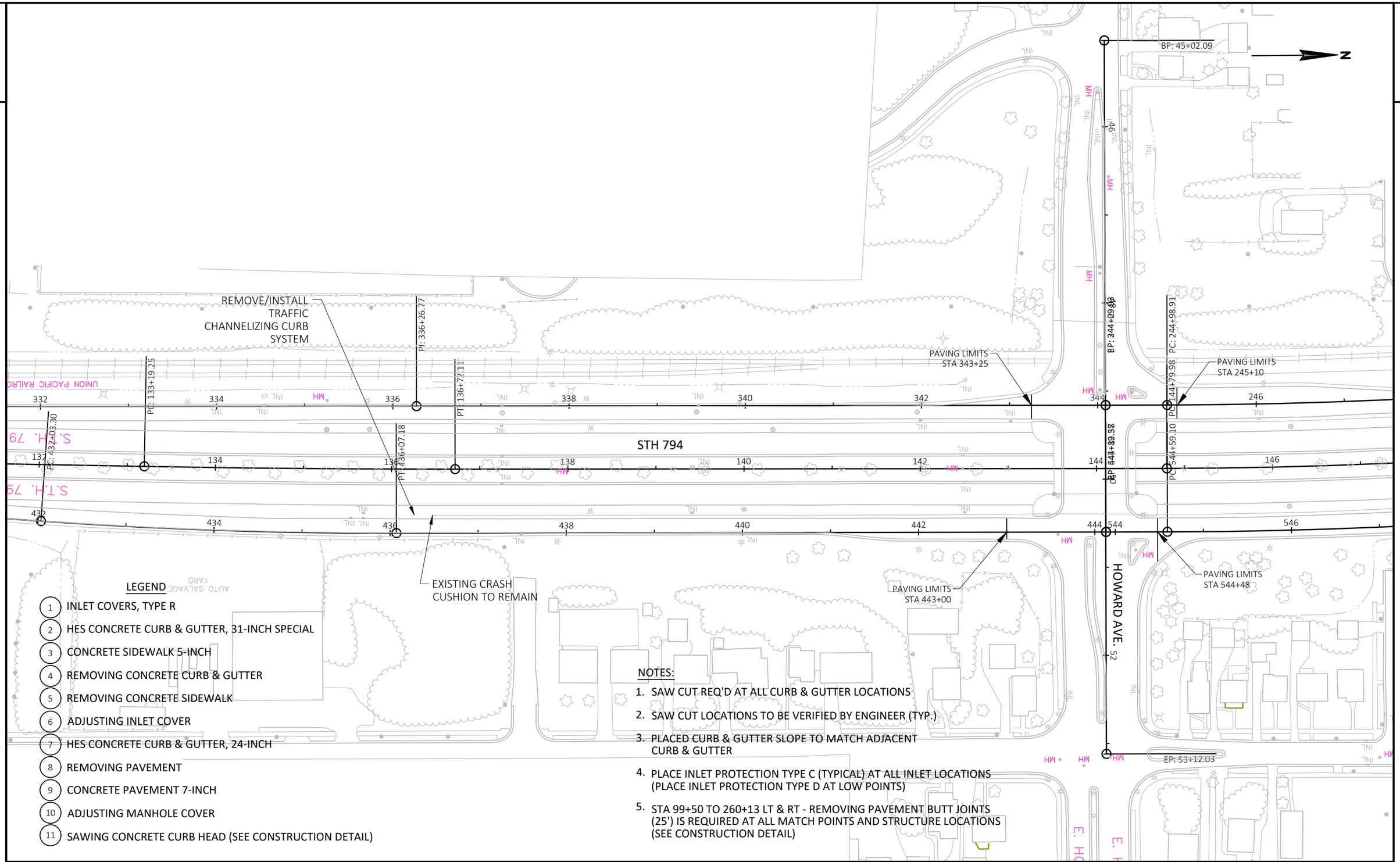
NOTES:

1. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
2. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
3. PLACED CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
4. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)
5. STA 99+50 TO 260+13 LT & RT - REMOVING PAVEMENT BUTT JOINTS (25') IS REQUIRED AT ALL MATCH POINTS AND STRUCTURE LOCATIONS (SEE CONSTRUCTION DETAIL)

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 37	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 020105_pd
PLOT DATE : 11/18/2020 12:50 PM
PLOT BY : STARK, GARY W
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



LEGEND

1. INLET COVERS, TYPE R
2. HES CONCRETE CURB & GUTTER, 31-INCH SPECIAL
3. CONCRETE SIDEWALK 5-INCH
4. REMOVING CONCRETE CURB & GUTTER
5. REMOVING CONCRETE SIDEWALK
6. ADJUSTING INLET COVER
7. HES CONCRETE CURB & GUTTER, 24-INCH
8. REMOVING PAVEMENT
9. CONCRETE PAVEMENT 7-INCH
10. ADJUSTING MANHOLE COVER
11. SAWING CONCRETE CURB HEAD (SEE CONSTRUCTION DETAIL)

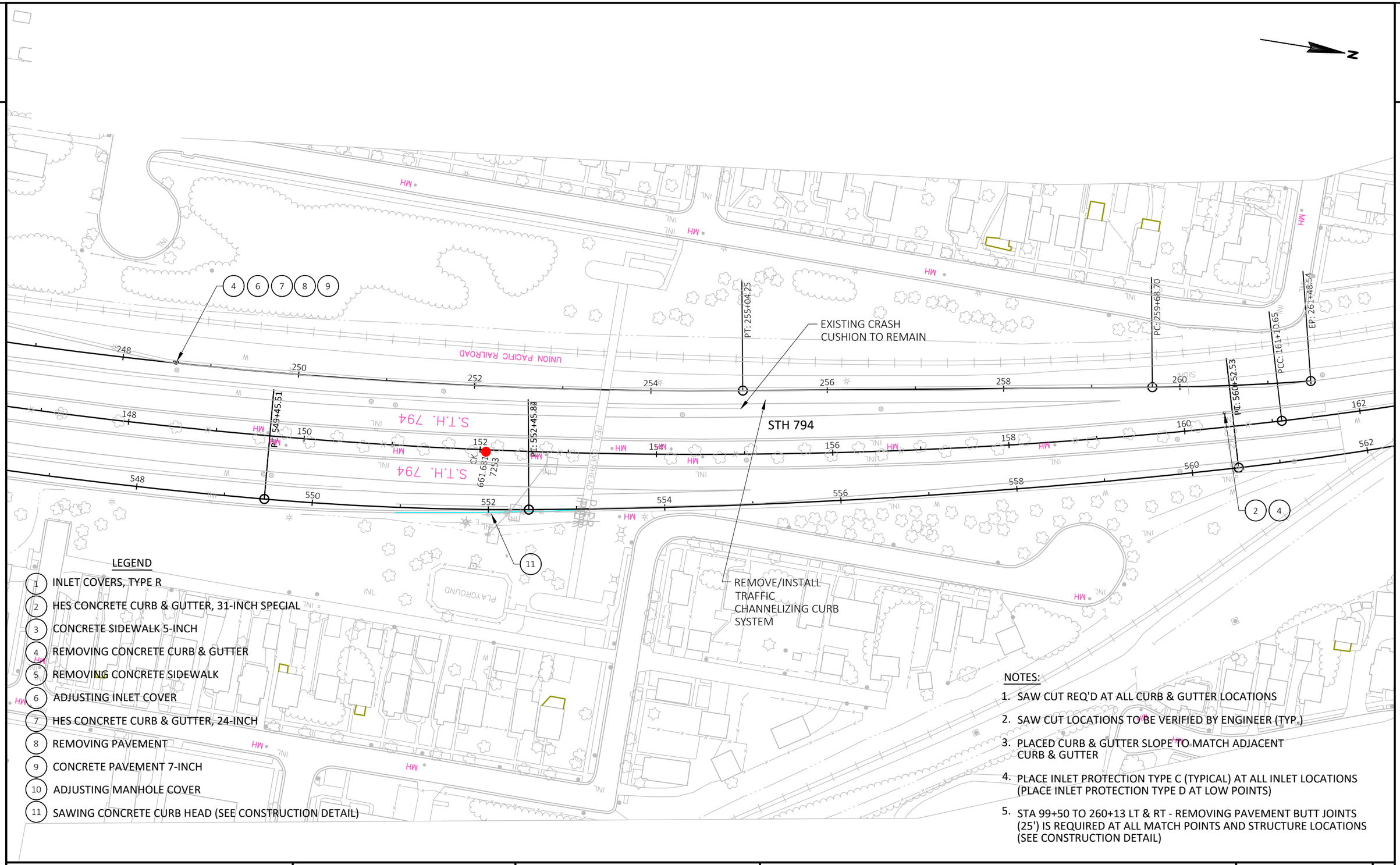
NOTES:

1. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
2. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
3. PLACED CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
4. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)
5. STA 99+50 TO 260+13 LT & RT - REMOVING PAVEMENT BUTT JOINTS (25') IS REQUIRED AT ALL MATCH POINTS AND STRUCTURE LOCATIONS (SEE CONSTRUCTION DETAIL)

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 38	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 020106_pd
PLOT DATE : 11/18/2020 12:50 PM
PLOT BY : STARK, GARY W
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



LEGEND

1. INLET COVERS, TYPE R
2. HES CONCRETE CURB & GUTTER, 31-INCH SPECIAL
3. CONCRETE SIDEWALK 5-INCH
4. REMOVING CONCRETE CURB & GUTTER
5. REMOVING CONCRETE SIDEWALK
6. ADJUSTING INLET COVER
7. HES CONCRETE CURB & GUTTER, 24-INCH
8. REMOVING PAVEMENT
9. CONCRETE PAVEMENT 7-INCH
10. ADJUSTING MANHOLE COVER
11. SAWING CONCRETE CURB HEAD (SEE CONSTRUCTION DETAIL)

NOTES:

1. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
2. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
3. PLACED CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
4. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)
5. STA 99+50 TO 260+13 LT & RT - REMOVING PAVEMENT BUTT JOINTS (25') IS REQUIRED AT ALL MATCH POINTS AND STRUCTURE LOCATIONS (SEE CONSTRUCTION DETAIL)

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 39	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 020107_pd
PLOT DATE : 11/18/2020 12:50 PM
PLOT BY : STARK, GARY W
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

ABANDONED RAILROAD

UNION PACIFIC RAILROAD

ST. FRANCIS AVE.

S.T.H. 794

STH 794

EP: 261+48.54

EP: 563+77.45

PT: 173+06.91

162

164

166

168

170

172

174

176

562

LEGEND

1. INLET COVERS, TYPE R
2. HES CONCRETE CURB & GUTTER, 31-INCH SPECIAL
3. CONCRETE SIDEWALK 5-INCH
4. REMOVING CONCRETE CURB & GUTTER
5. REMOVING CONCRETE SIDEWALK
6. ADJUSTING INLET COVER
7. HES CONCRETE CURB & GUTTER, 24-INCH
8. REMOVING PAVEMENT
9. CONCRETE PAVEMENT 7-INCH
10. ADJUSTING MANHOLE COVER
11. SAWING CONCRETE CURB HEAD (SEE CONSTRUCTION DETAIL)

NOTES:

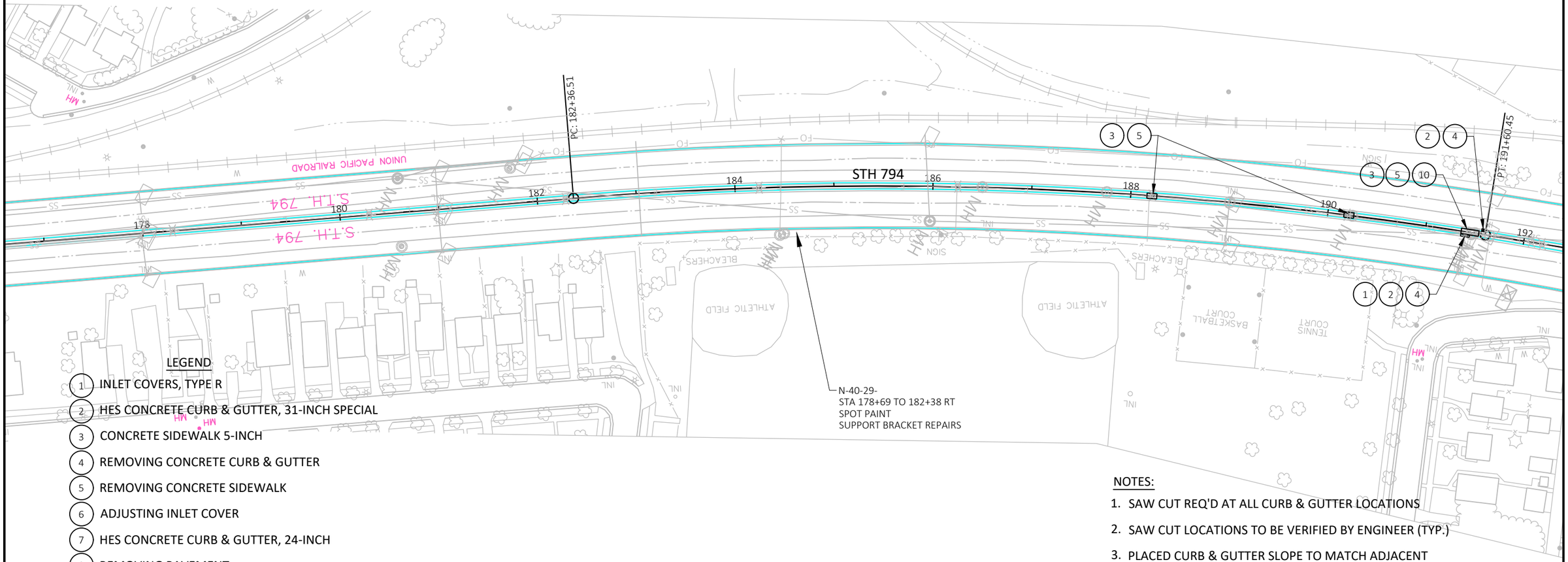
1. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
2. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
3. PLACED CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
4. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)
5. STA 99+50 TO 260+13 LT & RT - REMOVING PAVEMENT BUTT JOINTS (25') IS REQUIRED AT ALL MATCH POINTS AND STRUCTURE LOCATIONS (SEE CONSTRUCTION DETAIL)

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 40	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 020108_pd

PLOT DATE : 11/18/2020 12:51 PM PLOT BY : STARK, GARY W PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

1. INLET COVERS, TYPE R
2. HES CONCRETE CURB & GUTTER, 31-INCH SPECIAL
3. CONCRETE SIDEWALK 5-INCH
4. REMOVING CONCRETE CURB & GUTTER
5. REMOVING CONCRETE SIDEWALK
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11. SAWING CONCRETE CURB HEAD (SEE CONSTRUCTION DETAIL)

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PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 41	E

2

2

SIGNAL WORK:
NEW SIGNALS
NEW CABINET
RELOCATE/ABANDON ELLEN ST. FAR LOOP

PI: 191+60.45

PC: 205+37.79

STH 794

BP: 10+08.95

LDC 635 7111 7269

LDC 635 7111 7343

PC: 11+28.15

PT: 12+49.17

N-40-30-
STA 191+00 TO 196+66 RT
SPOT PAINT

PAVING LIMITS
STA 11+50.50

ELLEN ST.

OKLAHOMA AVE.

N-40-31-
STA 201+86 TO 212+08 RT
SPOT PAINT

EP: 17+00.00

LEGEND

1. INLET COVERS, TYPE R
2. HES CONCRETE CURB & GUTTER, 31-INCH SPECIAL
3. CONCRETE SIDEWALK 5-INCH
4. REMOVING CONCRETE CURB & GUTTER
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PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 42	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 020110_pd

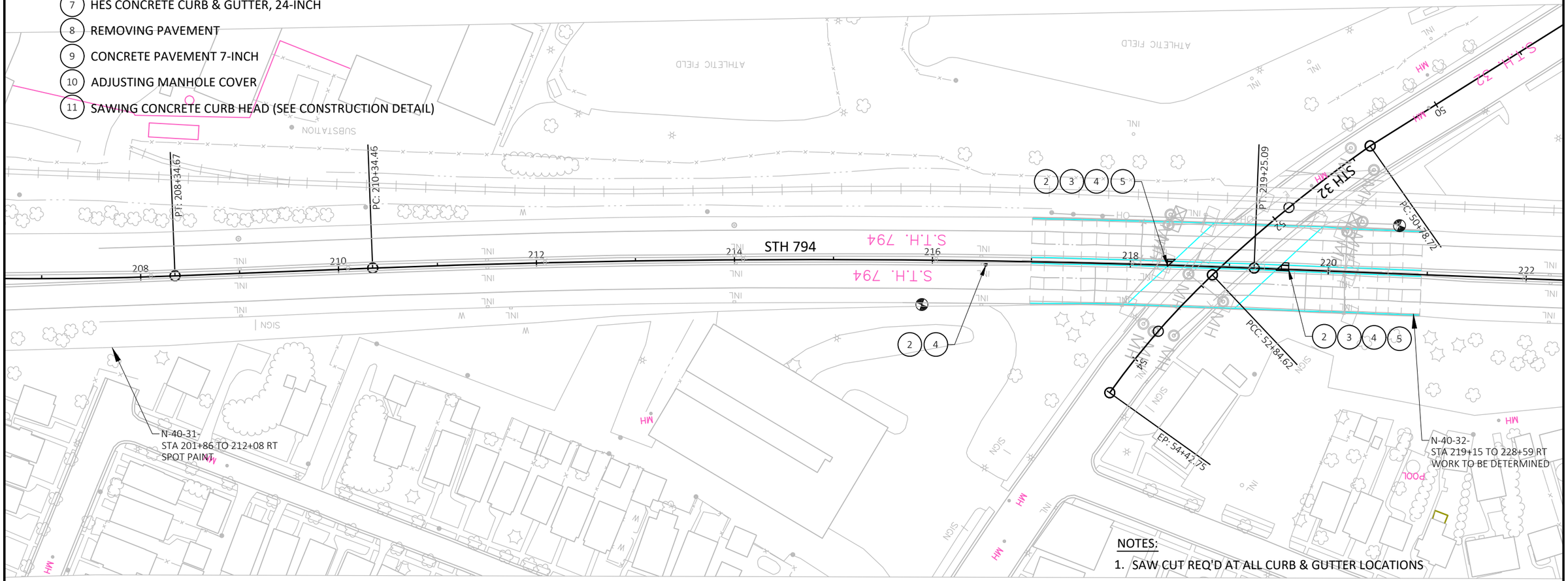
PLOT DATE : 11/18/2020 12:51 PM PLOT BY : STARK, GARY W PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

1. INLET COVERS, TYPE R
2. HES CONCRETE CURB & GUTTER, 31-INCH SPECIAL
3. CONCRETE SIDEWALK 5-INCH
4. REMOVING CONCRETE CURB & GUTTER
5. REMOVING CONCRETE SIDEWALK
6. ADJUSTING INLET COVER
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9. CONCRETE PAVEMENT 7-INCH
10. ADJUSTING MANHOLE COVER
11. SAWING CONCRETE CURB HEAD (SEE CONSTRUCTION DETAIL)

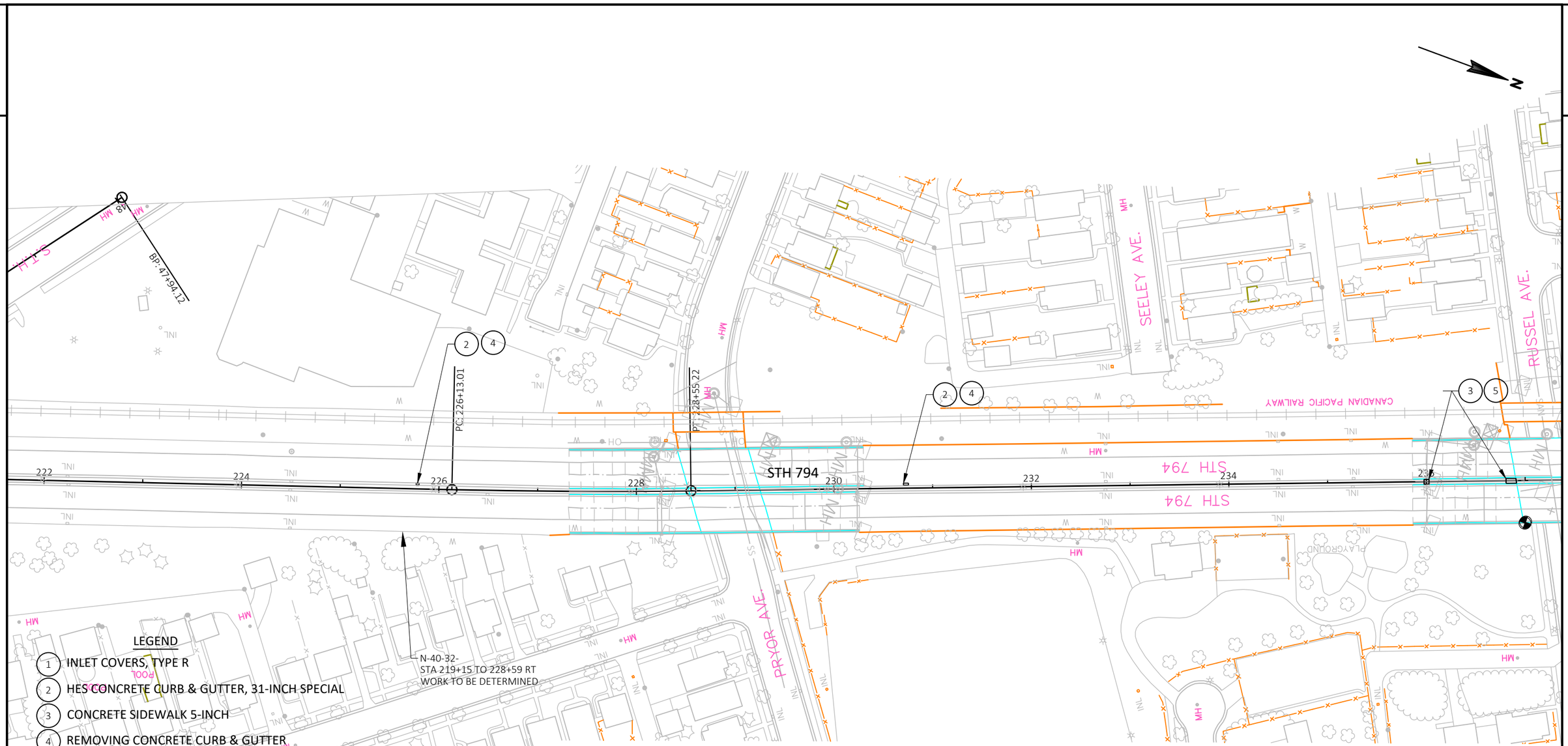


NOTES:

1. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
2. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
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PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 43	E

2



LEGEND

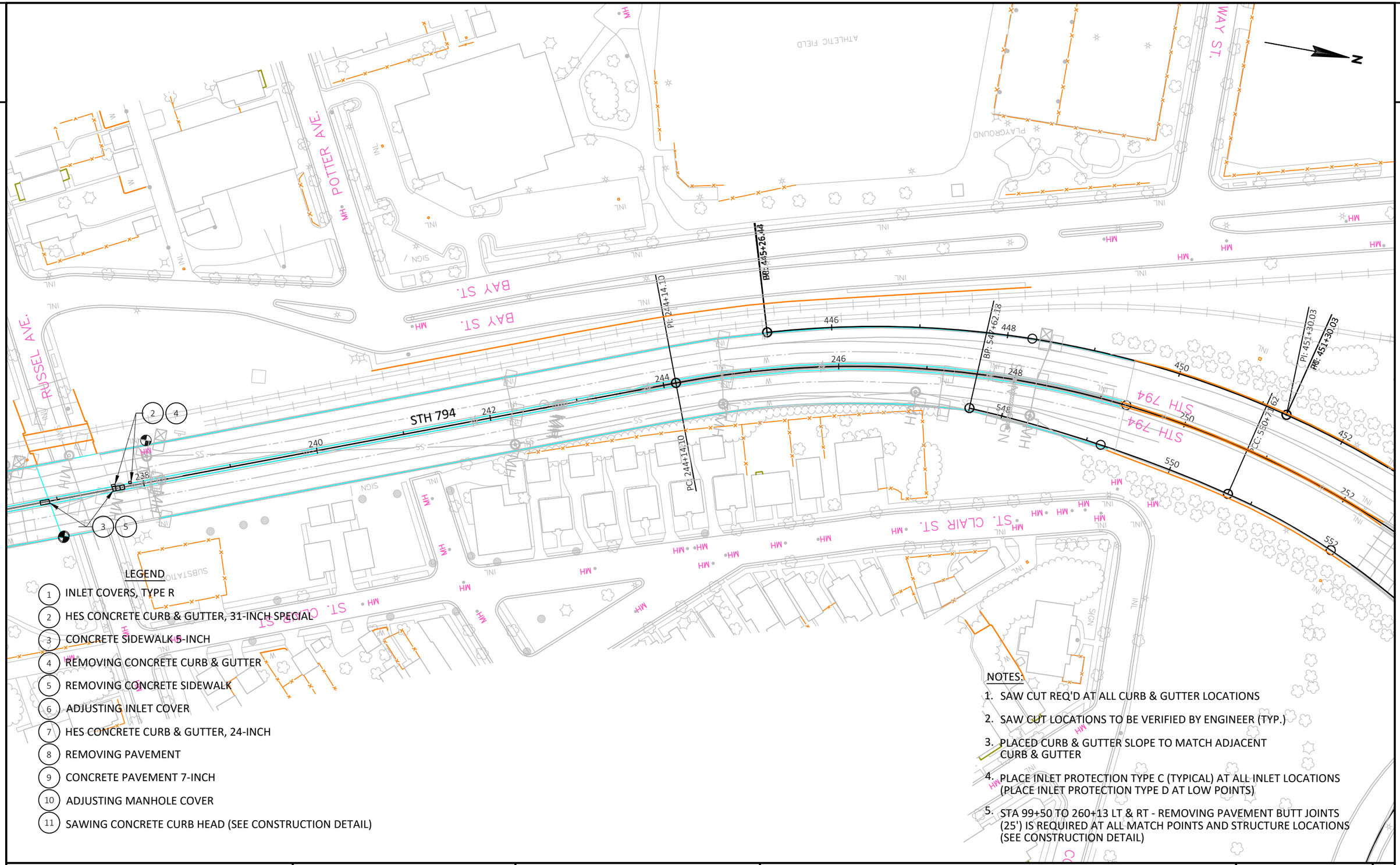
1. INLET COVERS, TYPE R
2. HES CONCRETE CURB & GUTTER, 31-INCH SPECIAL
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11. SAWING CONCRETE CURB HEAD (SEE CONSTRUCTION DETAIL)

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2. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
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4. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)
5. STA 99+50 TO 260+13 LT & RT - REMOVING PAVEMENT BUTT JOINTS (25') IS REQUIRED AT ALL MATCH POINTS AND STRUCTURE LOCATIONS (SEE CONSTRUCTION DETAIL)

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 44	E

2



LEGEND

1. INLET COVERS, TYPE R
2. HES CONCRETE CURB & GUTTER, 31-INCH SPECIAL
3. CONCRETE SIDEWALK 5-INCH
4. REMOVING CONCRETE CURB & GUTTER
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PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 45	E

2

REMOVE/INSTALL TRAFFIC CHANNELIZING CURB SYSTEM

EXISTING ASPHALT TO REMAIN

EXISTING CRASH CUSHION TO REMAIN

EXISTING ASPHALT TO REMAIN

CARFERRY DR.

LINCOLN AVE. VIADUCT

STH 794

END PROJECT
STA 260+13

BP: 356+44.13
FP: 461+65.99
PC: 359+09.42
PC: 362+17.19
PCC: 362+89.00
PCC: 261+61.34
PC: 261+72.35
PC: 262+
PC: 256+38.40
PC: 457+64.49
PT: 460+07.49
PT: 49+30.05
PC: 554+53.30
PC: 557+08.62
PC: 51+79.65
PC: 258+18.90
BP: 254+27.15
PT: 54+58.75
PT: 259+75.95
552+42.28
PC: 254+46.58
PT: 454+94.37
PT: 553+37.99

NOTES:

1. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
2. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
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9. CONCRETE PAVEMENT 7-INCH
10. ADJUSTING MANHOLE COVER
11. SAWING CONCRETE CURB HEAD (SEE CONSTRUCTION DETAIL)

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 46	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 020114_pd
PLOT DATE : 11/18/2020 12:53 PM
PLOT BY : STARK, GARY W
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

PENNSYLVANIA AVE

STOP R1-1F ESTR

W12-1D ESTR

STOP R1-1F ESTR

SOUTH 794 J3-1 ESTR

WRONG WAY R5-1A ESTR

Edgerton Ave
Pennsylvania
NORTH SOUTH
D1-60 ESTR

SOUTH 794 REMOVE

SOUTH 794 ONLY (1) (2) TYPE I

N

EXISTING OVERHEAD SIGN STRUCTURE S-40-709 TO REMAIN

SOUTH 794 J2-1 ESTR

DO NOT ENTER R5-1 ESTR

R4-7 ESTR

ONE WAY R6-2L ESTR

STH 794

58+00 59+00 60+00 61+00 62+00 63+00

NORTH 794 J4-1 ESTR

W1-6 ESTR

NORTH 794 J3-1 ESTR

PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED R5-57 ESTR

W1-1R ESTR

30 MPH W13-1 ESTR

YIELD R1-2 ESTR

STOP R1-1F ESTR

W12-1D ESTR

TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR — COUNTY(S) — PHONE#

- DENNIS NEWTON — MILWAUKEE — 414-750-0257
- DENNIS NEWTON — RACINE — 414-750-0257
- JENNY BUCKETT — KENOSHA, WASHINGTON, OZAUKEE — 414-750-2427
- CHUCK SALDIVAR — WALWORTH, WAUKESHA — 414-750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

WHEN AN EXISTING STOP SIGN SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED, THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POST SIZES, FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

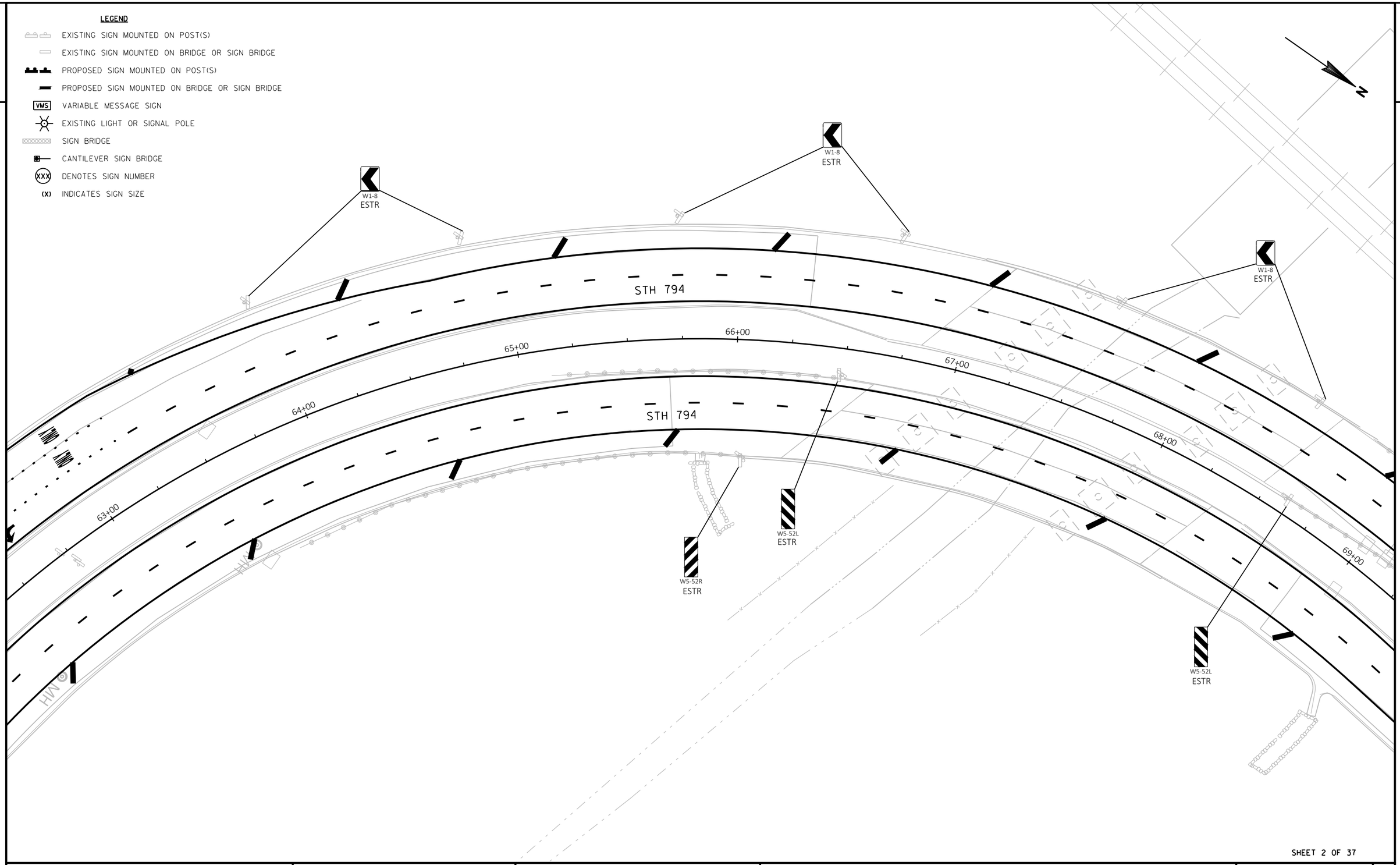
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 47	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-01
PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE



2

SHEET 2 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 48	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-02

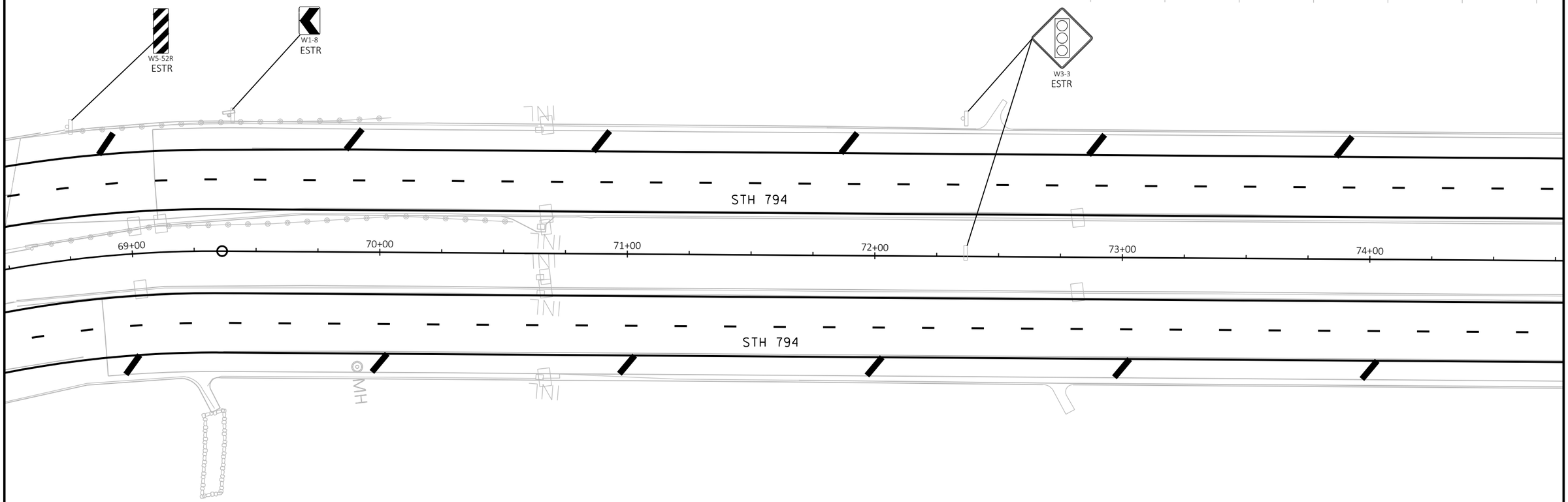
PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N



2

SHEET 3 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 49	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-03

PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

2

W1-1L

30 MPH

W13-1

ESTR

STH 794

75+00 76+00 77+00 78+00 79+00 80+00

STH 794

SPEED LIMIT 50

R2-1

ESTR

SHEET 4 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 50	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-04

PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

Pennsylvania Ave
JCT ½ MILE
REMOVE

Pennsylvania Ave
JCT ½ MILE (3)
TYPE I SIGN
REUSE STEEL POSTS

N

STH 794

81+00 82+00 83+00 84+00 85+00 86+00

STH 794

2

SHEET 5 OF 37

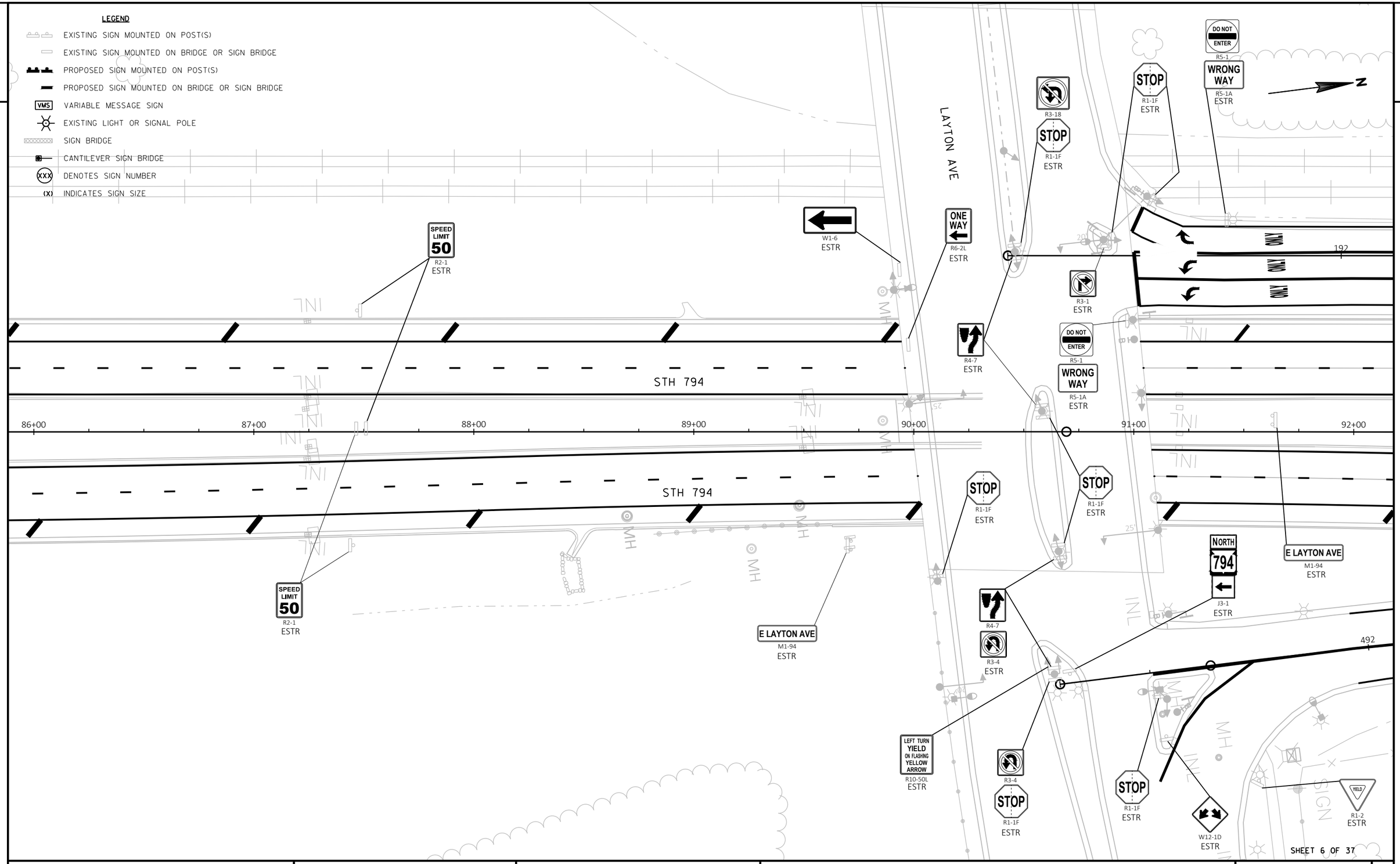
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 51	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-05
PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE



PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 52	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-06

PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

COUNTY Y
J13-1

ONLY ONLY ONLY
R3-8R
ESTR

WRONG WAY
R5-1A
ESTR

I5-1
ESTR

ONLY ONLY ONLY
R3-8R
ESTR

N

UNION PACIFIC RAILROAD

192 194 196 198

STH 794

92+00 93+00 94+00 95+00 96+00 97+00

STH 794

492 494 496

S Whitnall Ave 20
M1-94

S WHITNALL AVE

PEDESTRIANS
BICYCLES
NON-MOTORIZED TRAFFIC
MOTOR BICYCLES
PROHIBITED
R5-57
ESTR

W4-2R
ESTR

SHEET 7 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 53	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-07

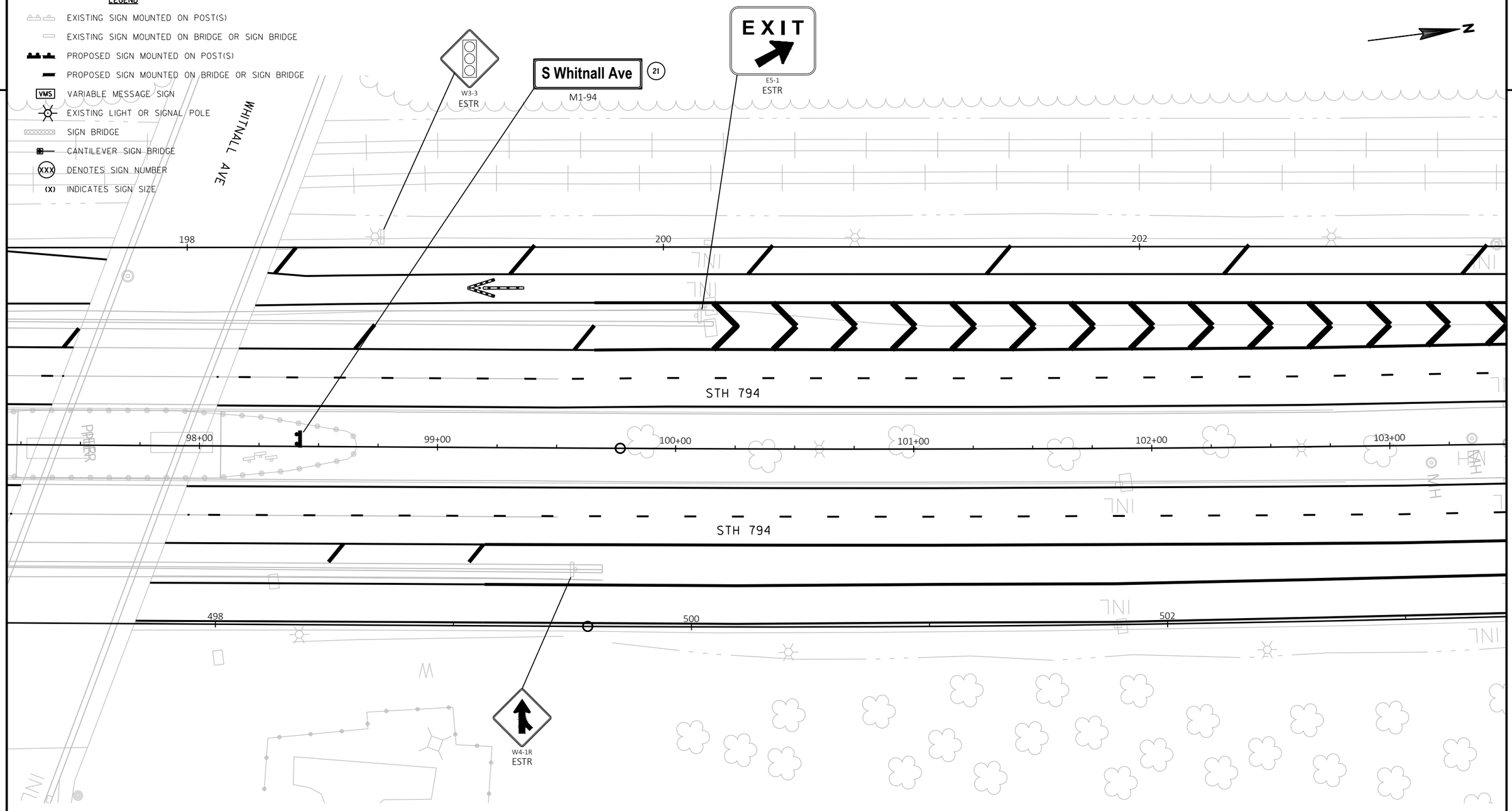
PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
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- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
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2

SHEET 8 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 54	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-08

PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

204 206 208

STH 794

+00 104+00 105+00 106+00 107+00 108+00 109+00

STH 794

504 506 508

SPEED LIMIT 50
R2-1
ESTR

SHEET 9 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 55	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-09

PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

Layton Ave
REMOVE

Layton Ave (4)
TYPE I SIGN

EXISTING OVERHEAD SIGN STRUCTURE
S-40-385
TO REMAIN

N

210 212 214

STH 794

109+00 110+00 111+00 112+00 113+00 114+00 115+00

STH 794

510 512 514

SHEET 10 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 56	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-10

PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

E BOLIVAR AVE

UNION PACIFIC

216

320

STH 794

115+00 116+00 117+00 118+00 119+00 120+00

516

STH 794

Layton Ave
NEXT RIGHT
REMOVE

Layton Ave
NEXT RIGHT
5
TYPE I SIGN

EXISTING OVERHEAD SIGN STRUCTURE
S-40-266
TO REMAIN

NORTH
794
J4-1
ESTR

E Bolivar Ave
22 23

SHEET 11 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 57	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-11

PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

N

2

Airport
NEXT RIGHT
ESTR

SPEED LIMIT 50
R2-1
ESTR

322 324 326

STH 794

121+00 122+00 123+00 124+00 125+00 126+00

STH 794

SPEED LIMIT 50
R2-1
ESTR

Howard Ave
EXIT ¼ MILE
6
TYPE I SIGN
REUSE STEEL POSTS

Howard Ave
EXIT ¼ MILE
REMOVE

SHEET 12 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 58	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-12

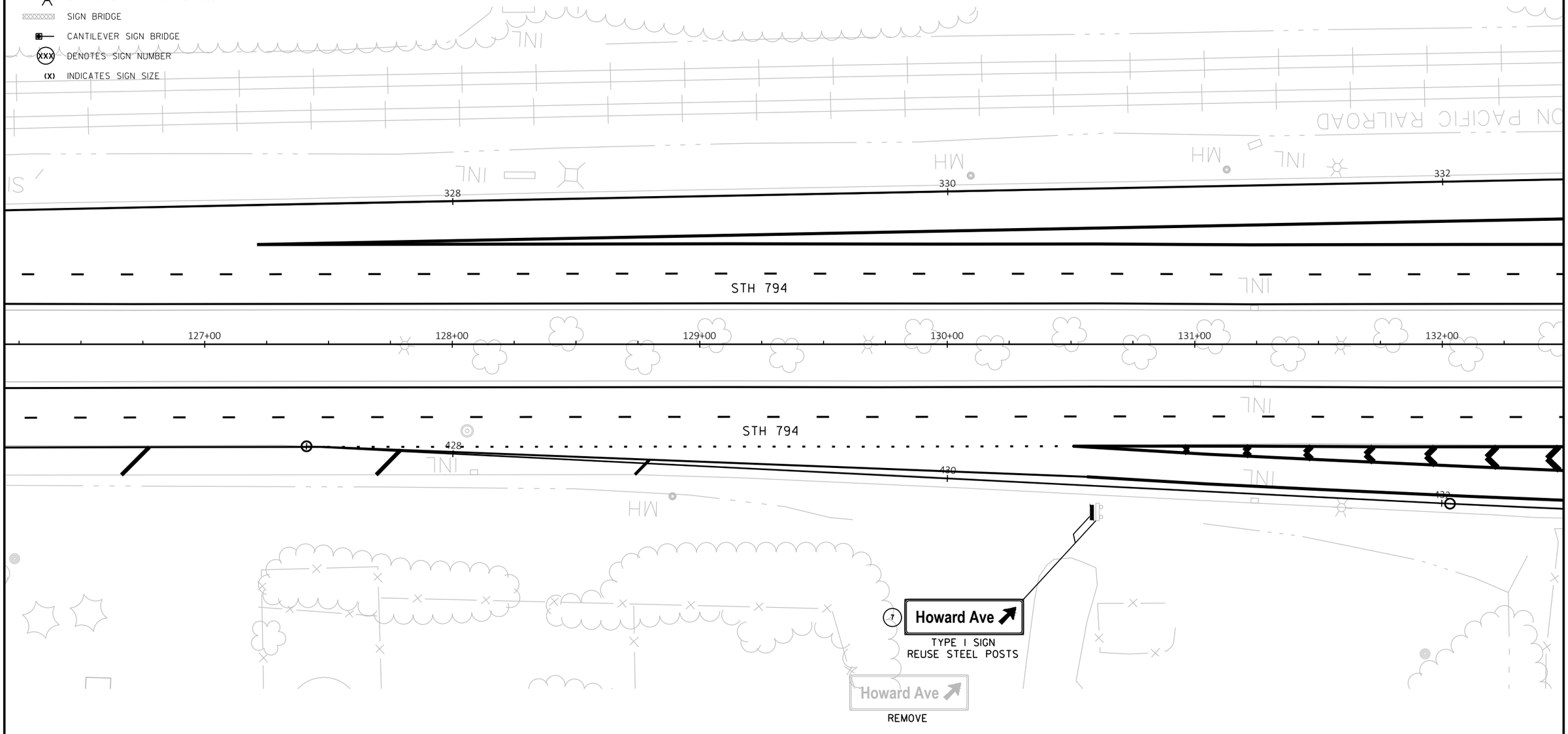
PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N



SHEET 13 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 59	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-13

PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

N

W4-1R
ESTR

32 334 336 338

STH 794

+00 133+00 134+00 135+00 136+00 137+00 138+00

STH 794

434 436 438

E5-1
ESTR

W3-3
ESTR

SHEET 14 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 60	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-14

PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

E HOWARD AVE

PEDESTRIANS
BICYCLES
NON MOTORIZED TRAFFIC
MOTOR BICYCLES
PROHIBITED
R5-57
ESTR

SOUTH
794
J3-1
ESTR

338 340 342 344

STH 794

R3-1

ONE WAY
R6-2L
ESTR

138+00 139+00 140+00 141+00 142+00 143+00 144+00

EXISTING OVERHEAD SIGN STRUCTURE
S-40-269
TO REMAIN

STH 794

ONE WAY
R6-2R
ESTR

438 440 442 444

ONLY
R3-8
ESTR

ONLY
R3-8
ESTR

WRONG WAY
R5-1A
ESTR

DO NOT ENTER
R5-1
ESTR

R3-2
ESTR

NORTH
794
J3-1

WRONG WAY
R5-1A
ESTR

R4-7
ESTR

SHEET 15 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 61	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-15

PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

DO NOT ENTER
R5-1

WRONG WAY
R5-1A
ESTR

ONE WAY
R6-2R
ESTR

STOP
R1-1F
ESTR

N

ONLY ONLY ONLY
R3-8R
ESTR

SPEED LIMIT 50
R2-1
ESTR

344

246

248

250

SOUTH 794
J3-1

ONE WAY
R6-2L
ESTR

DO NOT ENTER
R5-1
ESTR

R4-7
ESTR

STH 794

144+00

145+00

146+00

147+00

148+00

149+00

EXISTING OVERHEAD SIGN STRUCTURE
S-40-269
TO REMAIN

R3-1
ESTR

STH 794

ONLY
R3-5L
ESTR

444

544

546

548

E HOWARD AVE

R3-2
ESTR

SOUTH 794
REMOVE

8

SOUTH 794 ONLY
TYPE I SIGN

W12-1D
ESTR

STOP
R1-1
ESTR

W4-2R

PEDESTRIANS
BICYCLES
NON MOTORIZED TRAFFIC
MOTOR BICYCLES
PROHIBITED
R5-57
ESTR

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

SHEET 16 OF 37

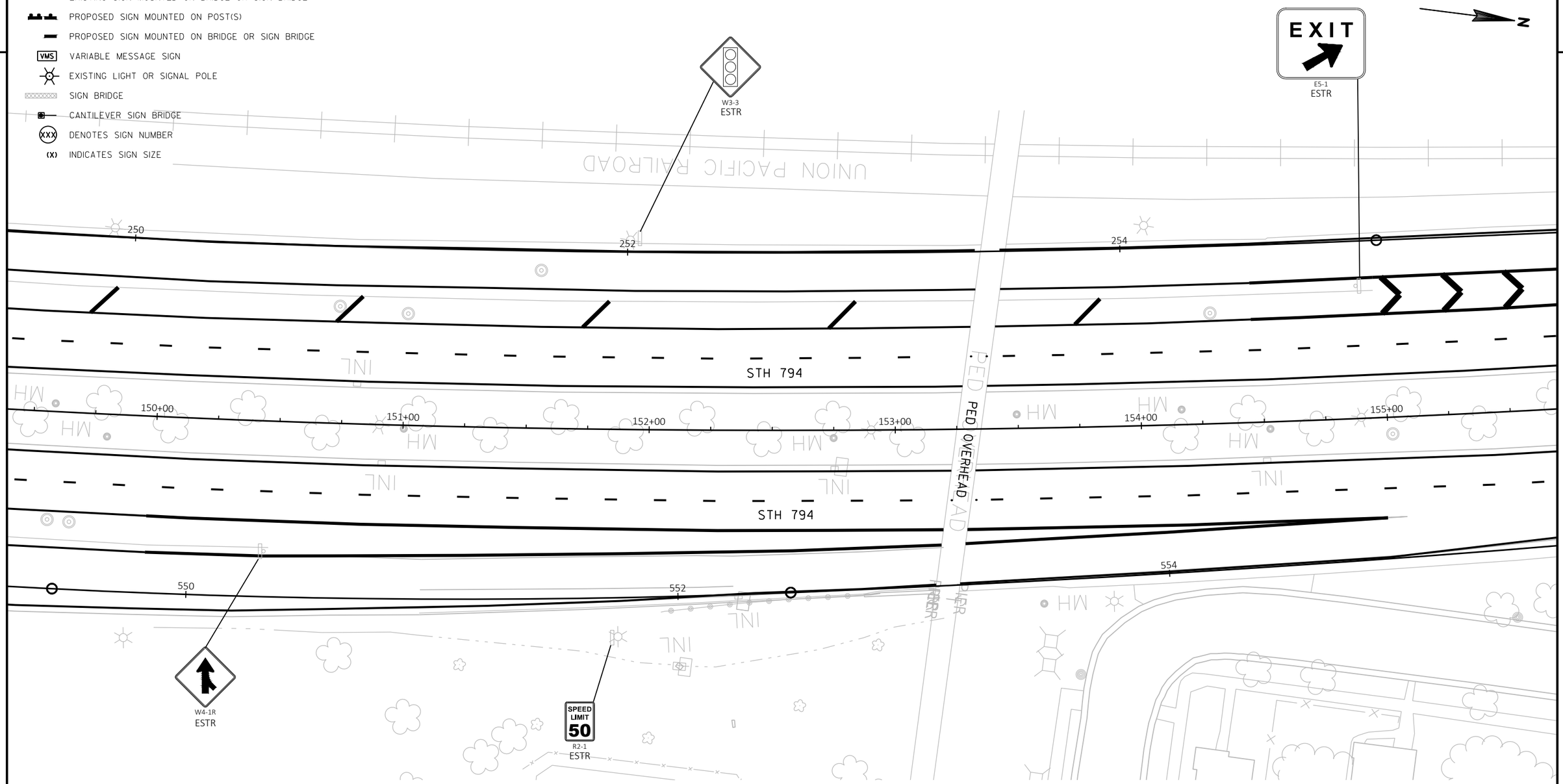
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 62	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-16

PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE



SHEET 17 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 63	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-17

PLOT DATE : 11/18/2020 7:48 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

Howard Ave
REMOVE

9 Howard Ave
TYPE I SIGN
MOUNTED ON WALL

EXISTING OVERHEAD SIGN STRUCTURE
S-40-325
TO REMAIN

256 258 260

STH 794

156+00 157+00 158+00 159+00 160+00 161+00

STH 794

558 560

NORTH
794
J4-1
ESTR

SPEED LIMIT
50
R2-1
ESTR

SHEET 18 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 64	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-18

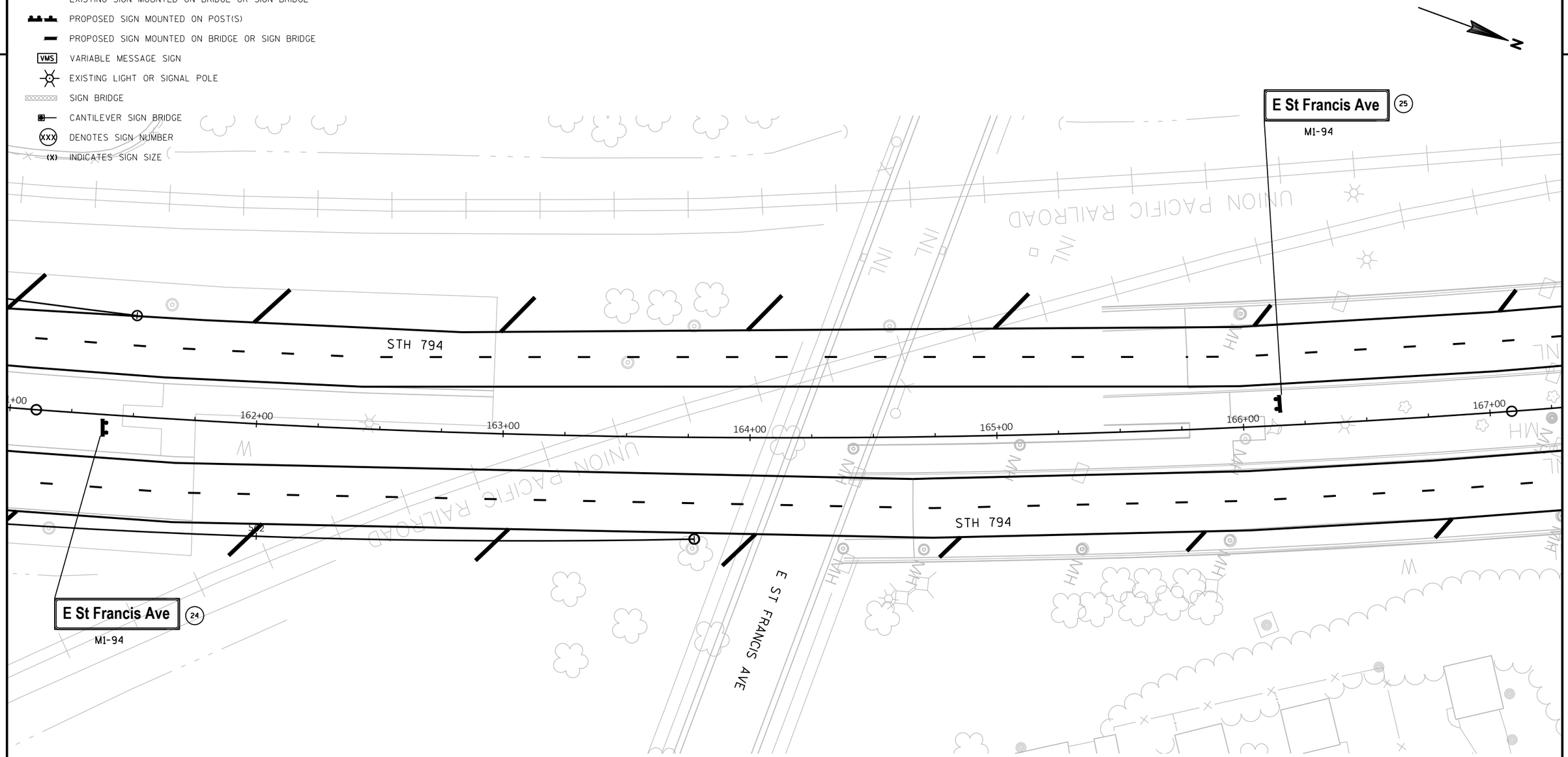
PLOT DATE : 11/18/2020 7:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE



2

SHEET 19 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 65	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-19

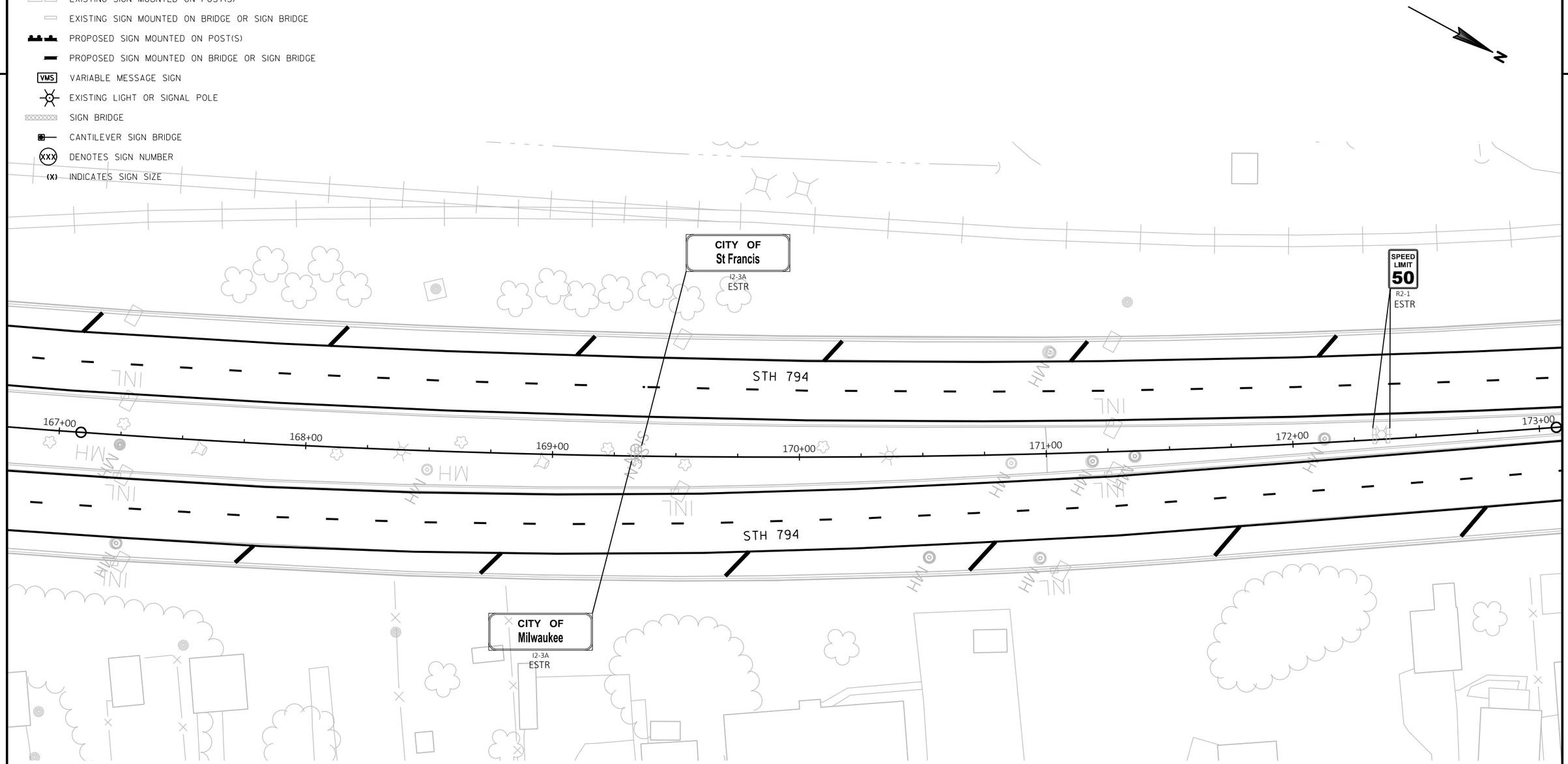
PLOT DATE : 11/18/2020 7:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE



2

SHEET 20 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 66	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-20

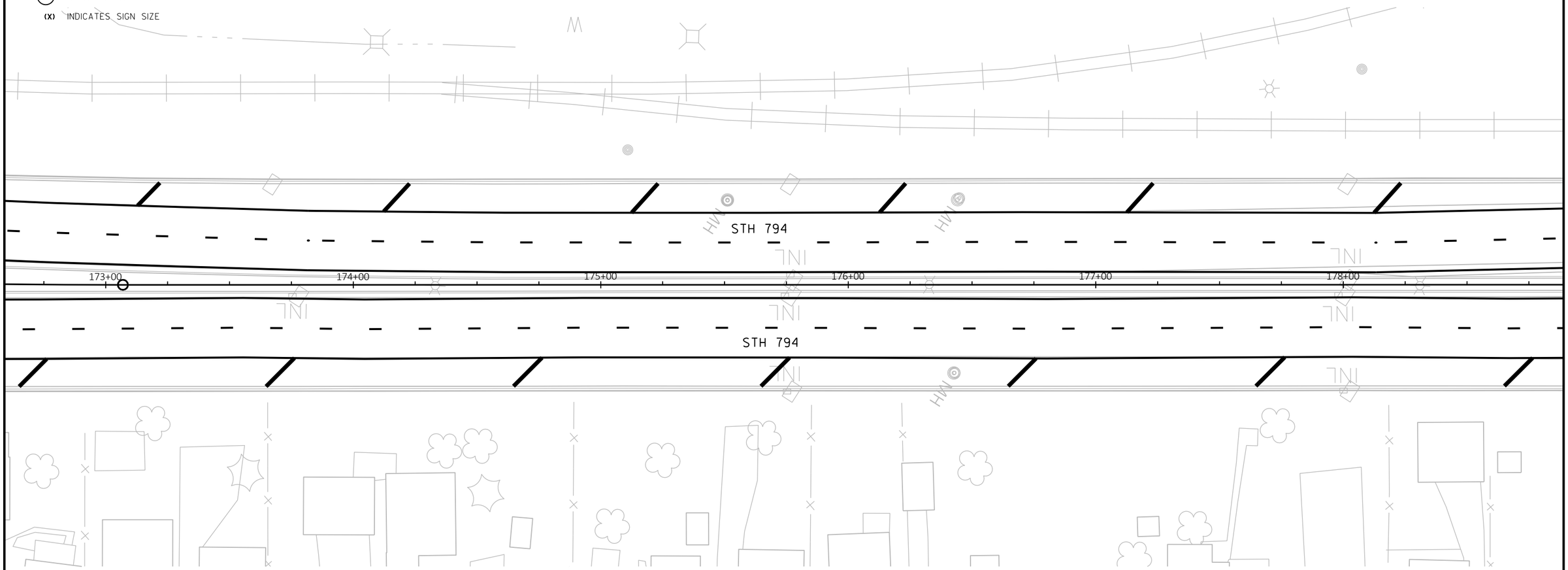
PLOT DATE : 11/18/2020 7:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

NO SIGNS THIS SHEET



2

SHEET 21 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 67	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-21

PLOT DATE : 11/18/2020 7:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

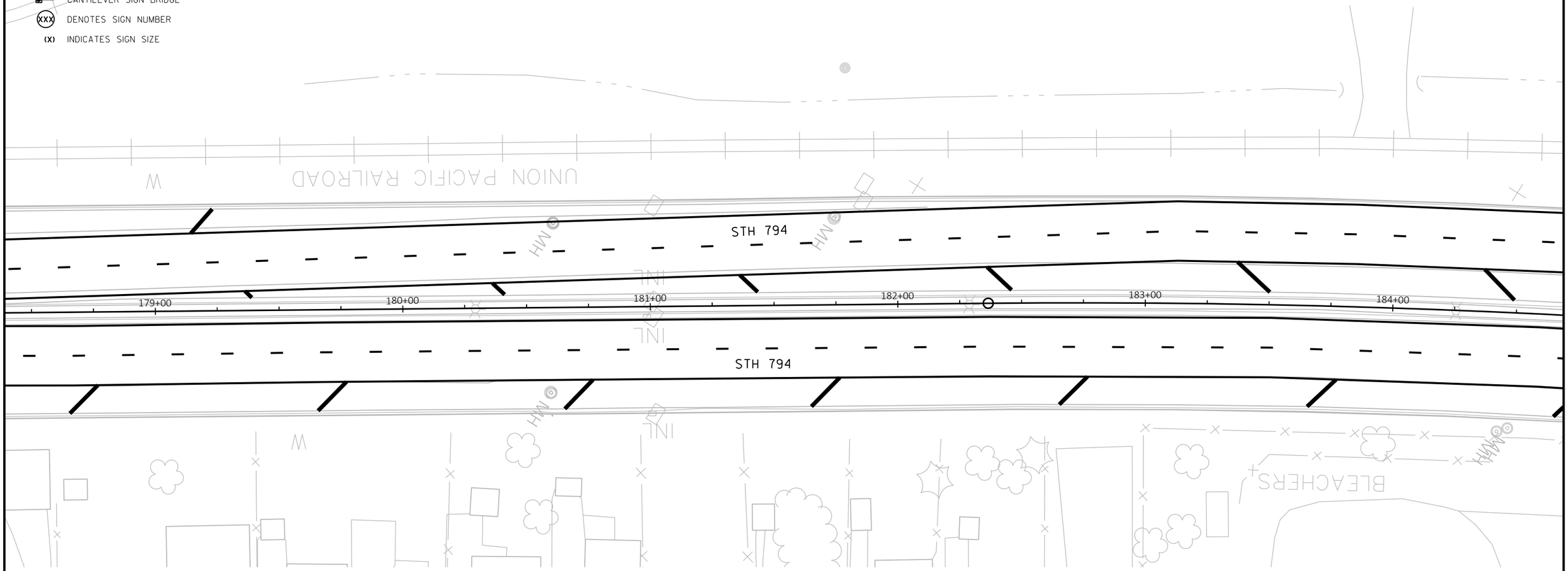
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

NO SIGNS THIS SHEET



2

SHEET 22 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 68	E

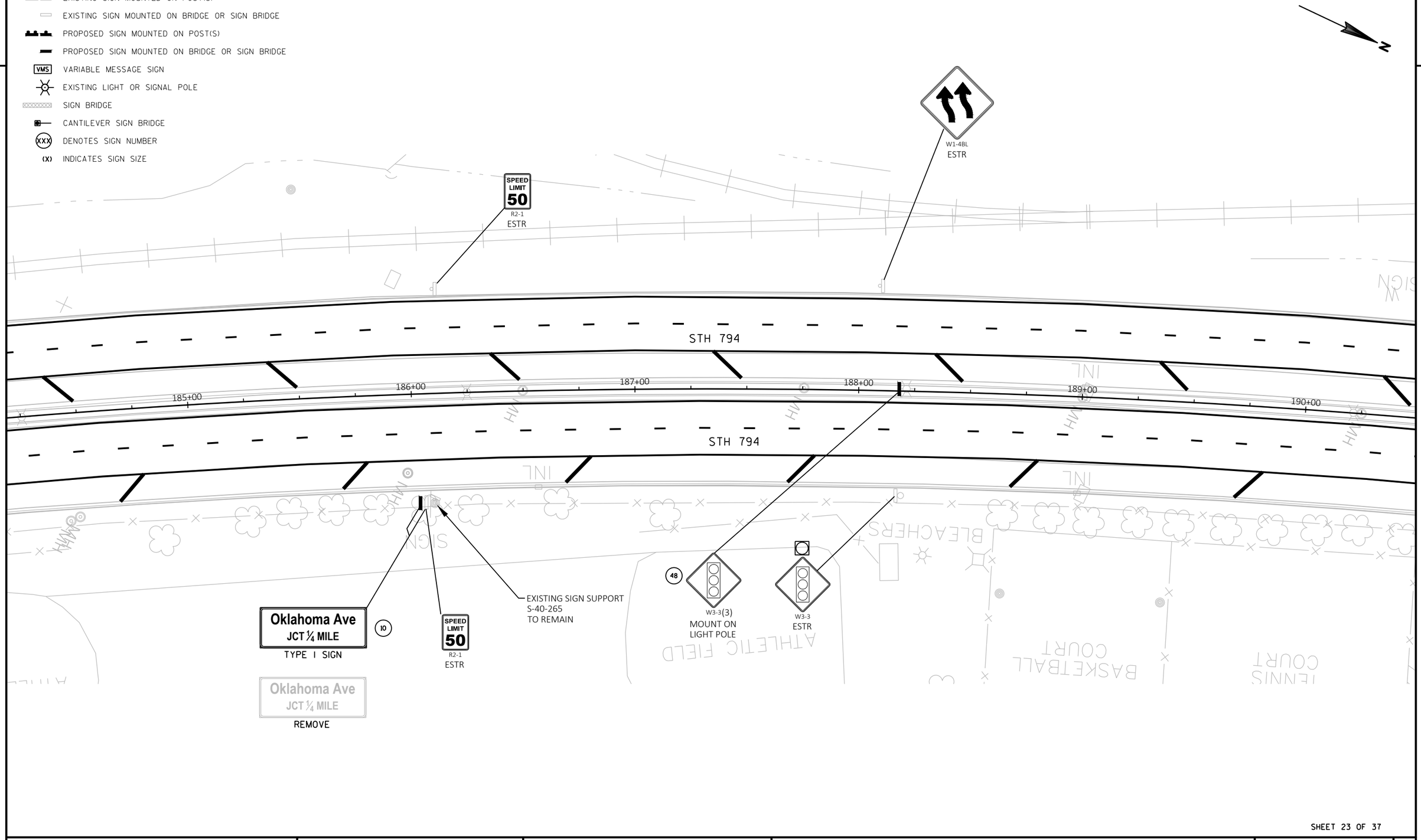
FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-22

PLOT DATE : 11/18/2020 7:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE



SHEET 23 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 69	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-23

PLOT DATE : 11/18/2020 7:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

Howard Ave
EXIT ½ MILE
REMOVE

Howard Ave
EXIT ½ MILE
11
TYPE I SIGN
REUSE STEEL POSTS

W4-2L

SOUTH
794
J4-1
ESTR

STH 794

191+00 192+00 193+00 194+00 195+00 196+00

STH 794

49
50
BE PREPARED TO STOP WHEN FLASHING
W3-4 (MOD)
MOUNT ON SIGNAL POLE.
SEE SIGNAL PLAN FOR
BEACON AND CONNECTION
AND POLE.

SHEET 24 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 70	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-24

PLOT DATE : 11/18/2020 7:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEFT LANE ENDS
W9-1L
ESTR

DO NOT ENTER
REMOVE

WRONG WAY
REMOVE

DO NOT ENTER
26
R5-1 (3)

WRONG WAY
27
R5-1A (2S)

ONE WAY
28
R6-2L (2M)
MOUNT ON SIGNAL POLE

STAY IN LANE
REMOVE

STAY IN LANE
29
R4-9 (2M)
MOUNT ON SIGNAL POLE

SOUTH
794
J3-1
ESTR

30
STOP
REMOVE

W12-1D
ESTR

STOP
REMOVE

31
STOP
32
R1-1F (3)
MOUNT ON SIGNAL POLE

Oklahoma Ave
EAST
REMOVE

Oklahoma Ave
WEST
REMOVE

13
Oklahoma Ave
EAST
TYPE I SIGN

Oklahoma Ave
WEST
14
TYPE I SIGN

STH 794

196+00
197+00
198+00
199+00
200+00
201+00

50'

DO NOT ENTER
44
R5-1 (3)

STOP
REMOVE

42
43
STOP
R1-1F (3)
MOUNT ON SIGNAL POLE

REMOVE

39
R4-7 (3)
MOUNT ON SIGNAL POLE

40
R4-7 (3)

EXISTING SIGN SUPPORT
S-40-300

WRONG WAY
REMOVE

WRONG WAY
45
R5-1A (3)

WRONG WAY
R5-1A
ESTR

W12-1D
ESTR

41
R4-7 (2S)
MOUNT ON SIGNAL POLE

ELLEN ST

1100

STOP
R1-1
ESTR

Oklahoma Ave
12
TYPE I SIGN
REUSE STEEL POSTS

Oklahoma Ave
REMOVE

DIVIDED HIGHWAY
46
R6-3 (2M)
MOUNT ON SIGNAL POLE

NORTH
794
33
J3-1 (2S)

NORTH
794
REMOVE

STAY IN LANE
REMOVE

34
RIGHT TURN NO STOP
MOVE

37
38
STOP
R1-1F (3)
MOUNT ON SIGNAL POLE

STAY IN LANE
35
R4-9 (2M)

RIGHT TURN NO STOP
36
MOVE
MOUNT ON SIGNAL POLE

STOP
REMOVE

SOUTH
794
NORTH
794
J2-2
ESTR

E OKLAHOMA AVE

12+00
13+00
14+00

DO NOT ENTER
R5-1

WRONG WAY
R5-1A
ESTR

Oklahoma Ave
WEST EAST
D1-60
ESTR

DO NOT ENTER
R5-1
ESTR

W3-3
ESTR

ONLY
ONLY
R3-8F
ESTR

ONLY
ONLY
R3-8F
RIGHT TURN NO STOP
ESTR

PEDESTRIANS
BICYCLES
NON MOTORIZED TRAFFIC
MOTOR BICYCLES
PROHIBITED
R5-57
ESTR

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

SHEET 25 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 71	E

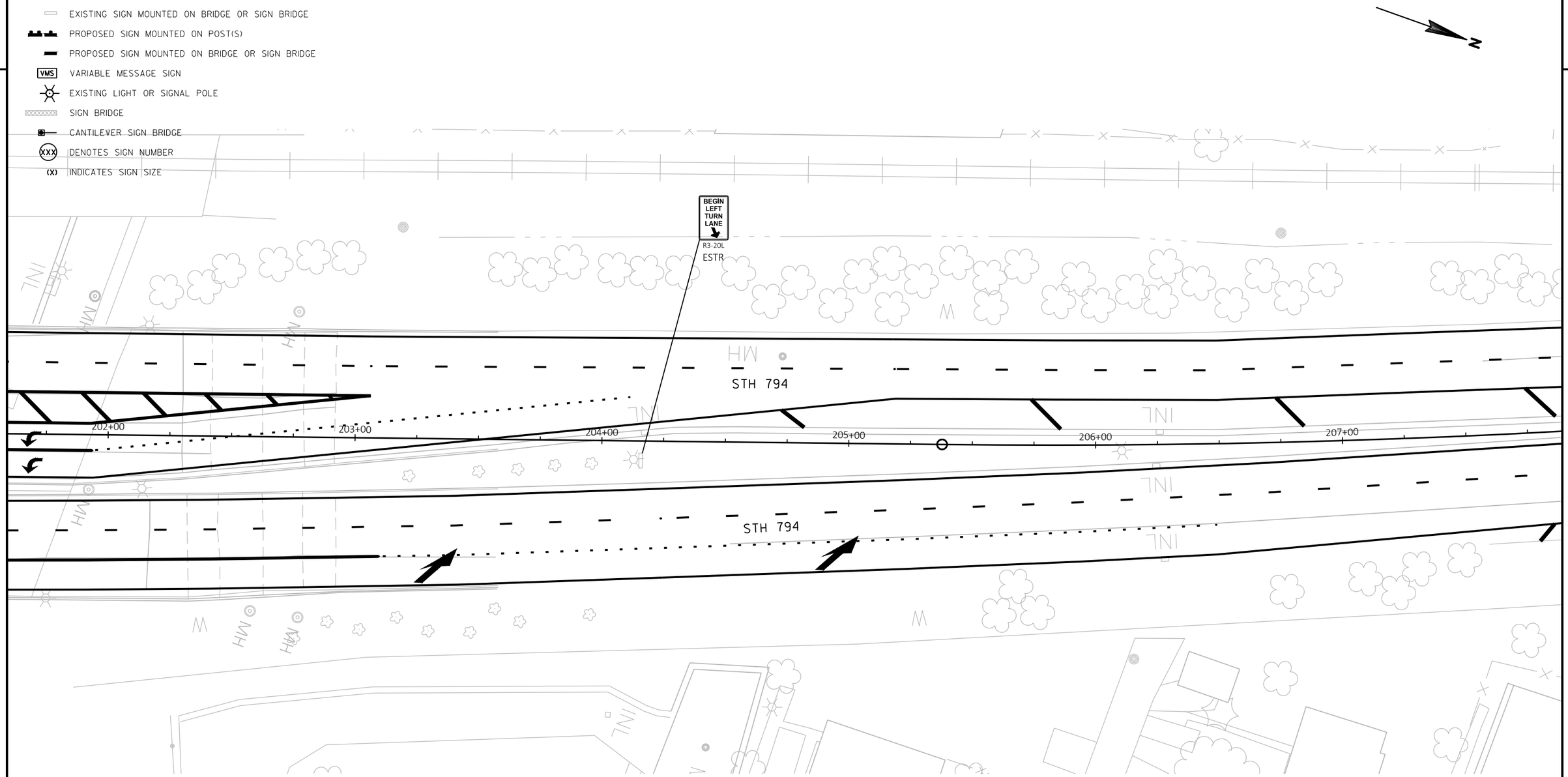
FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-25

PLOT DATE : 11/18/2020 7:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE



SHEET 26 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 72	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-26

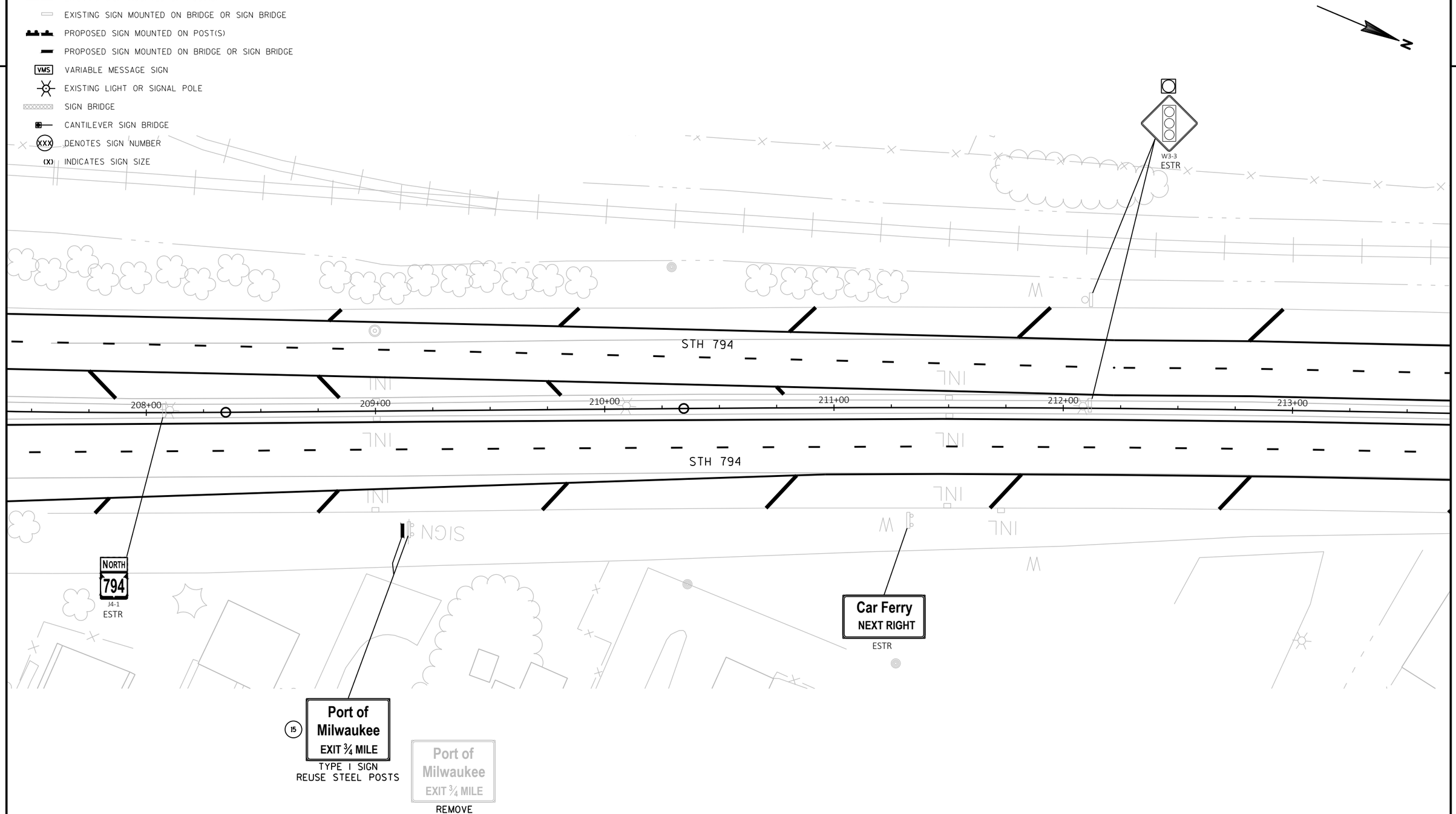
PLOT DATE : 11/18/2020 7:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE



SHEET 27 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 73	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-27

PLOT DATE : 11/18/2020 7:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

SPEED LIMIT 50
R2-1
ESTR

W1-4BR
ESTR

SPEED LIMIT 50
R2-1
ESTR

STH 794

214+00 215+00 216+00 217+00 218+00 219+00

STH 794

S KINNICKINNIC AVE

SHEET 28 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 74	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-28

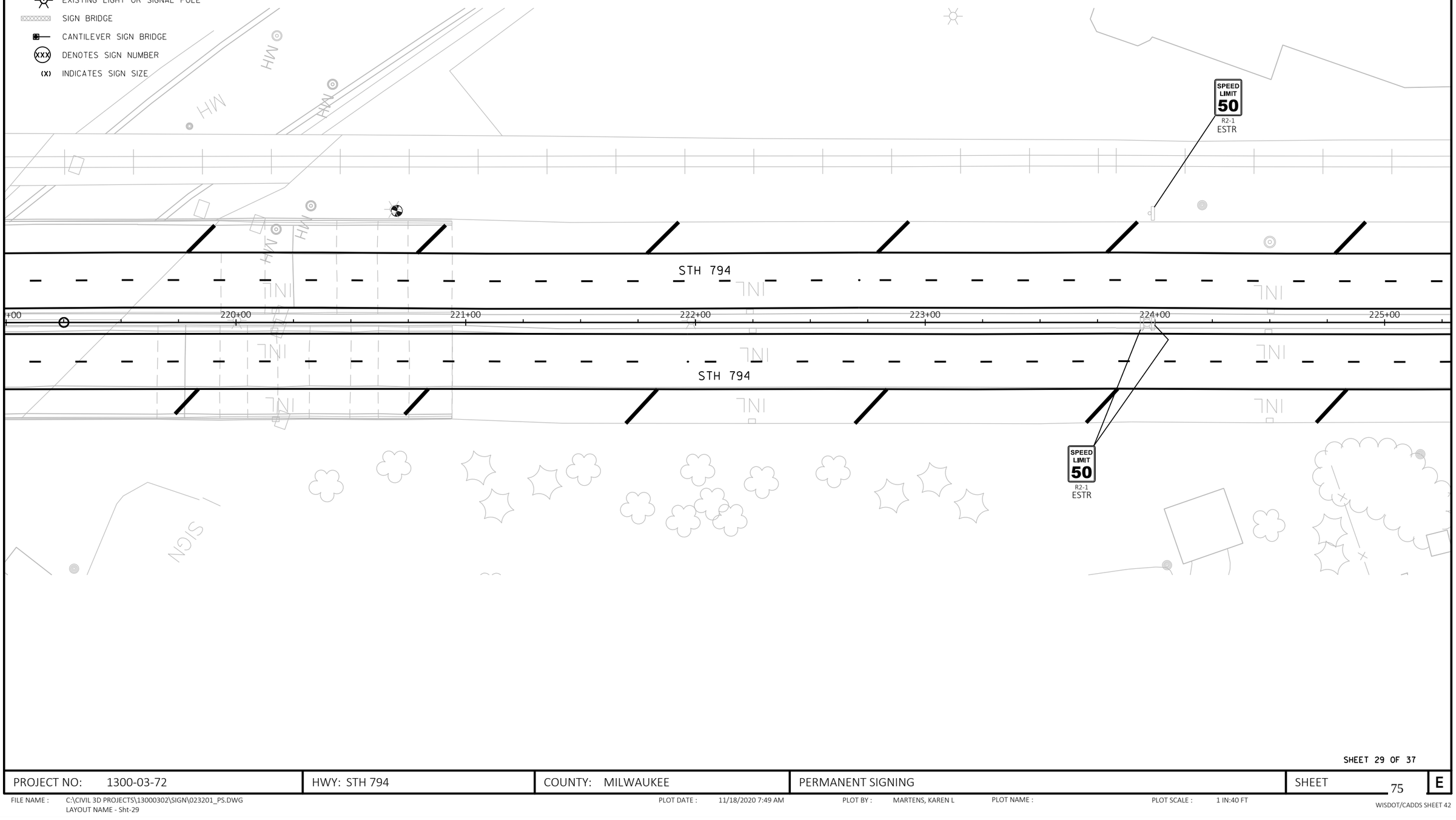
PLOT DATE : 11/18/2020 7:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE



2

SHEET 29 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 75	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-29

PLOT DATE : 11/18/2020 7:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

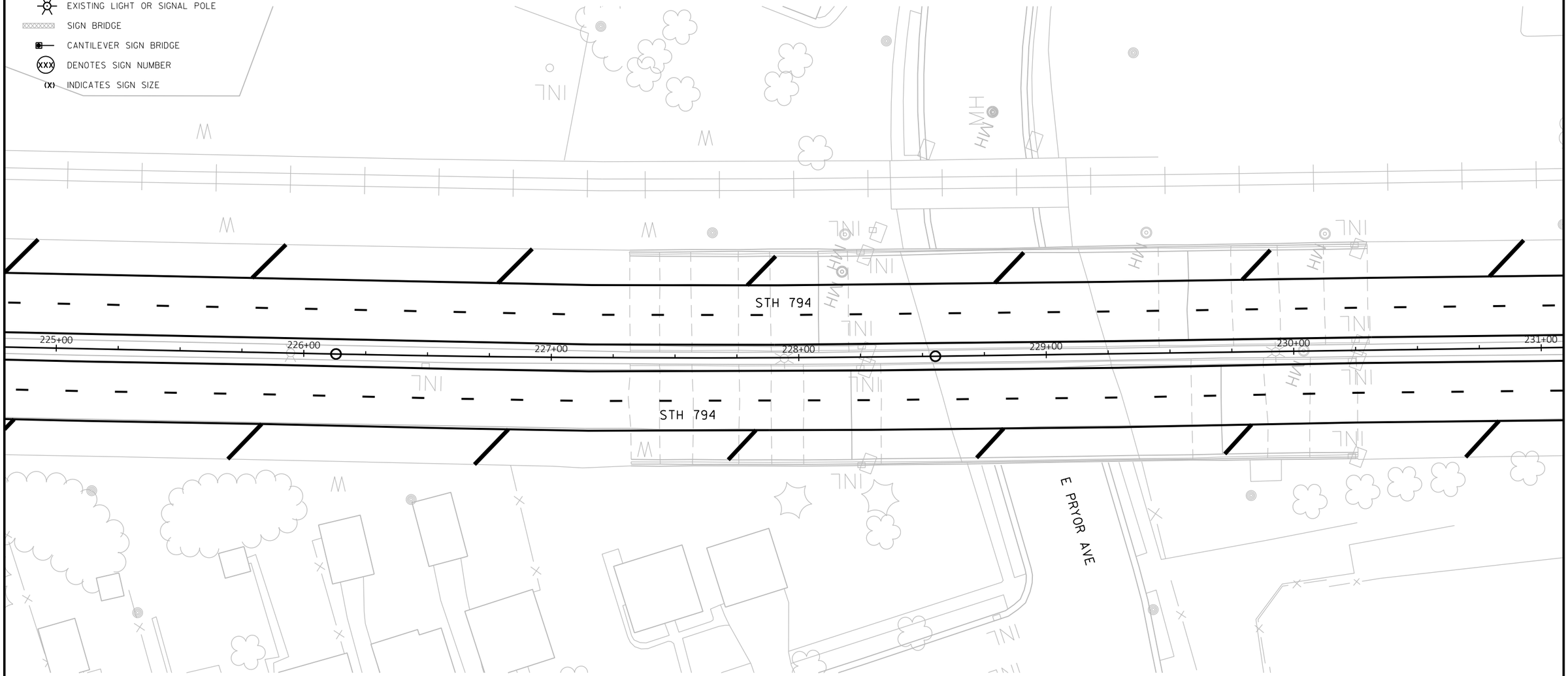
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

NO SIGNS THIS SHEET



2

SHEET 30 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 76	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-30

PLOT DATE : 11/18/2020 7:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

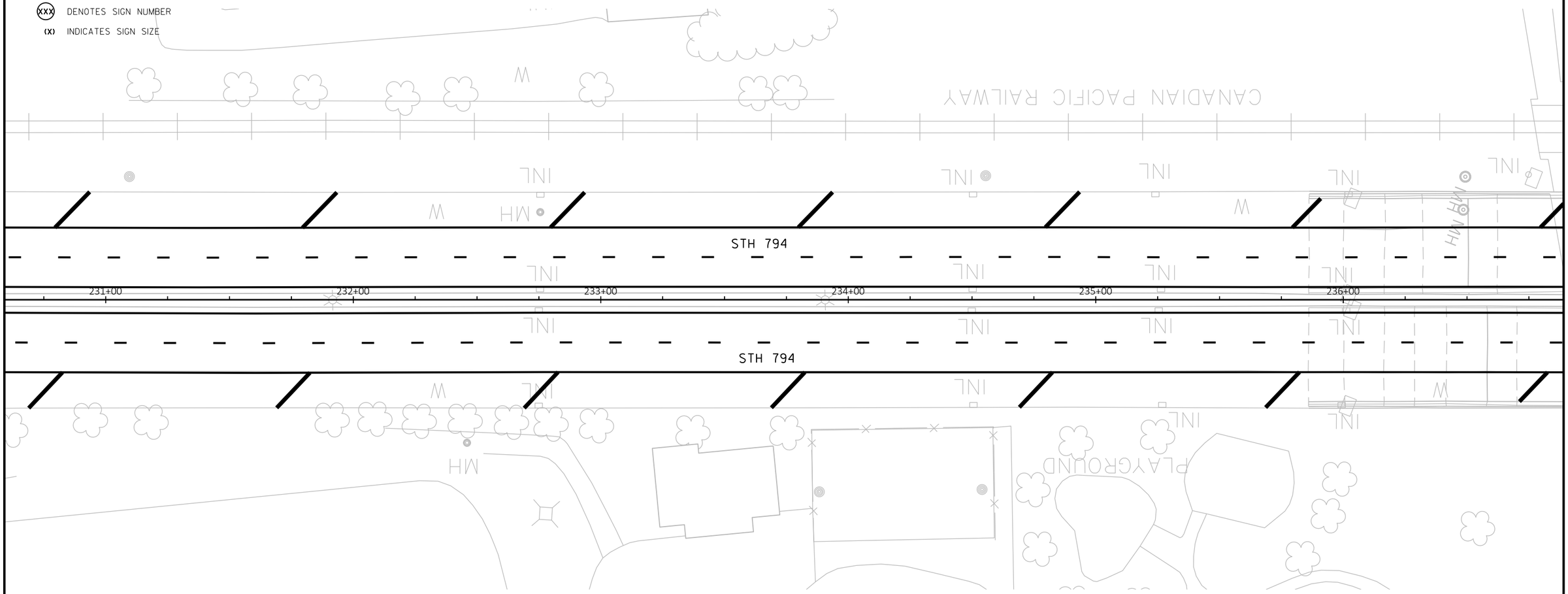
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

NO SIGNS THIS SHEET



2

SHEET 31 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 77	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-31

PLOT DATE : 11/18/2020 7:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

EXISTING OVERHEAD SIGN STRUCTURE S-40-301 TO REMAIN

Oklahoma Ave
JCT LEFT ¾ MILE
REMOVE

Oklahoma Ave
JCT LEFT ¾ MILE
16
TYPE I SIGN

SPEED LIMIT 50
R2-1
ESTR

STH 794

237+00 238+00 239+00 240+00 241+00 242+00

STH 794

E RUSSELL AVE

SUBSTATION

SIGN

SHEET 32 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 78	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-32

PLOT DATE : 11/18/2020 7:49 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

SOUTH 794
J4-1
ESTR

STH 794

243+00
244+00
245+00
246+00
247+00
248+00

STH 794

EXIT 30 MPH
W13-2
ESTR

EXISTING OVERHEAD SIGN STRUCTURE
S-40-14
TO REMAIN

17

794 To INTERSTATE 794
Downtown

TYPE I SIGN

18

Port of Milwaukee

TYPE I SIGN

794 To INTERSTATE 794
Downtown

REMOVE

Port of Milwaukee

REMOVE

SHEET 33 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 79	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-33

PLOT DATE : 11/18/2020 7:50 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

STH 794

248+00

249+00

250+00

251+00

252+00

253+00

STH 794

W1-1R

30 MPH

W13-1

ESTR

2

SHEET 34 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 80	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-34

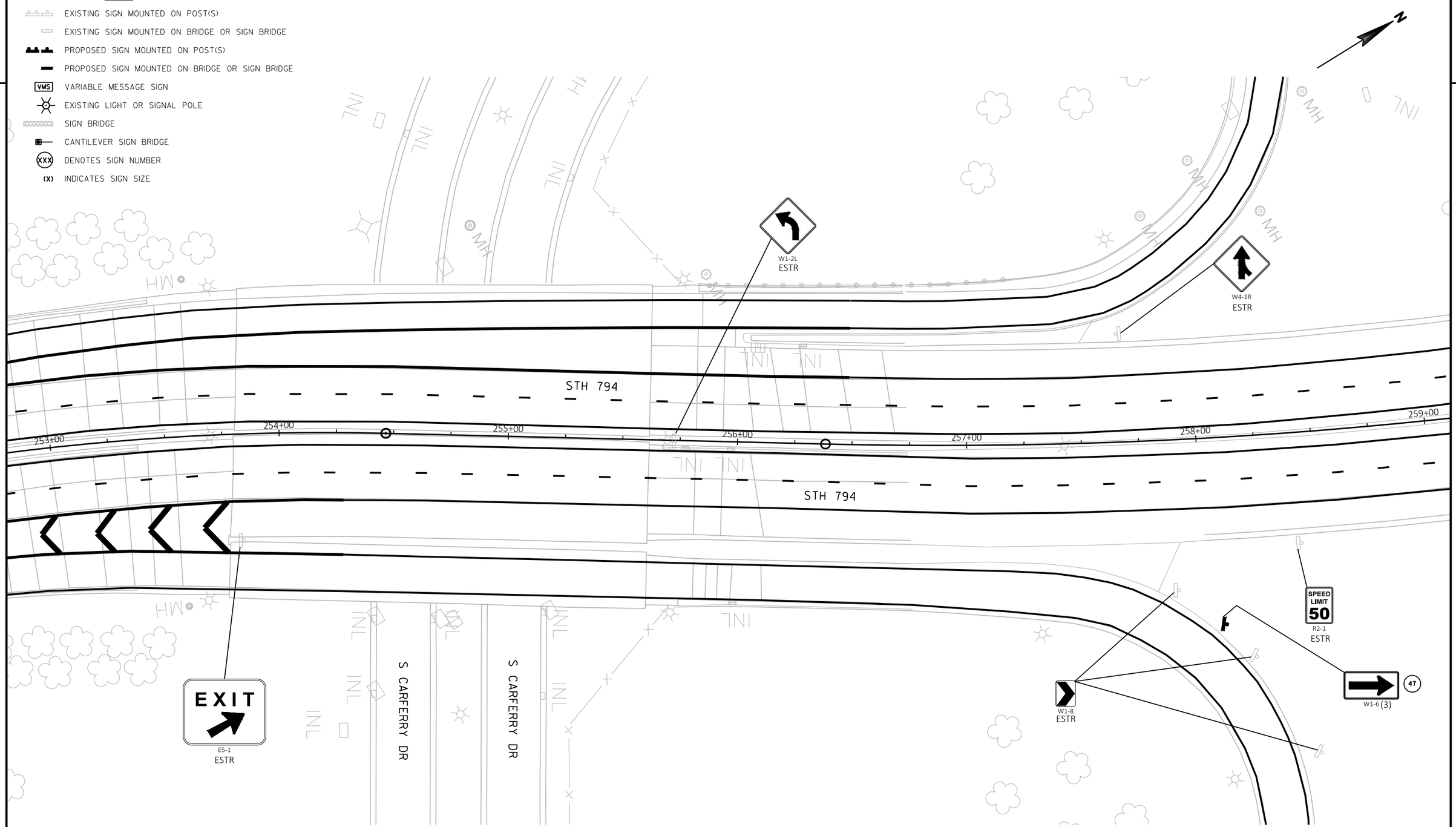
PLOT DATE : 11/18/2020 7:50 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE



SHEET 35 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 81	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-35

PLOT DATE : 11/18/2020 7:50 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

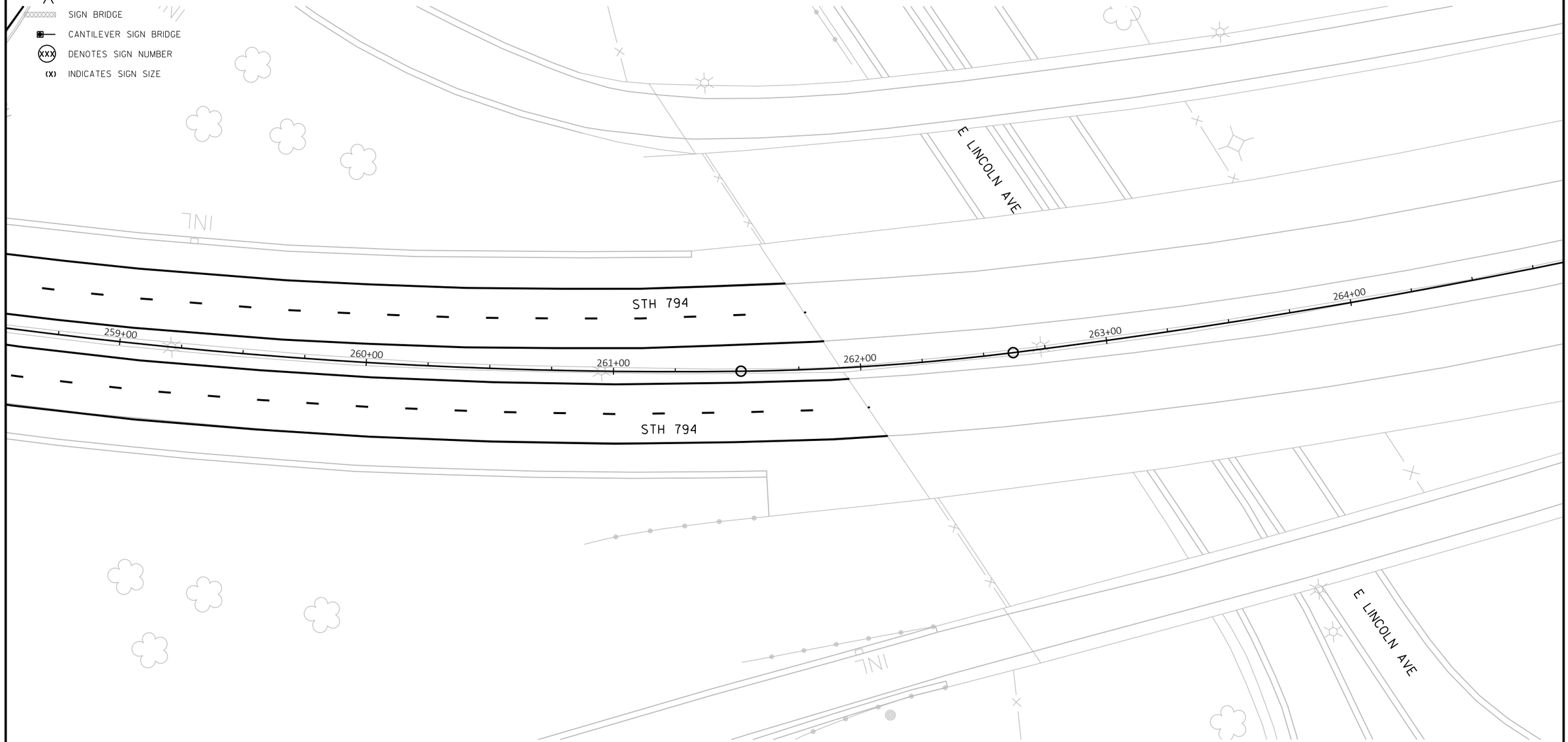
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE

NO SIGNS THIS SHEET

N



2

SHEET 36 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 82	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-36

PLOT DATE : 11/18/2020 7:50 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

STH 794

264+00 265+00 266+00 267+00 268+00 269+00 270+

STH 794

W4-3R
ESTR

SHEET 37 OF 37

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 83	E

FILE NAME : C:\CIVIL 3D PROJECTS\13000302\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-37

PLOT DATE : 11/18/2020 7:50 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

GENERAL NOTES:

FREEWAY LIGHTING SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTIONS 652 TO 657 AND 659 EXCEPT:

1. DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THESE DRAWINGS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

2. LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. HOWEVER, INSTALLATION WILL REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. UNDER THE APPROVAL OF THE ENGINEER, APPROPRIATE ADJUSTMENT OF CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED TO ILLUSTRATE AS BUILT CONDITIONS.

3. THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION ON THE CONDUIT.

4. ALL OPEN AND UN-TERMINATED CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION.

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

6. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.

7. PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT THAT CAN BE EASILY REMOVED. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

8. CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX, JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.

9. PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.

10. CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS (.PDF FORMAT) FOR ALL THE WORK BEING DONE.

11. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION.

12. UNDERGROUND WIRE & CONDUIT SHOWN ON REMOVAL PLANS FOR REMOVAL SHALL BE ABANDONED IN PLACE UNLESS DIRECTED BY THE ENGINEER. CONTRACTOR MAY CHOOSE TO REMOVE CONDUCTOR AT THEIR OWN EXPENSE.

13. PROVIDE MINIMUM CABLE SLACK AS MENTIONED BELOW:

PULL BOXES:	3-FT
EMBEDDED JUNCTION BOXES:	3-FT
DISTRIBUTION CENTER/LOAD CENTER:	10-FT
POLES:	5-FT IN AND 5-FT OUT

LEGEND

- DISTRIBUTION CENTER
- CONDUIT - 2" UNLESS OTHERWISE NOTED
- EXISTING LIGHT POLE, ARM MOUNTED LUMINAIRE
- REMOVE LIGHTING UNIT
- PULL BOX
- JUNCTION BOX

UNION PACIFIC RAILROAD

STH 794

196+00 197+00 198+00 199+00 200+00 201+00

197+80, 46.9'LT
DFE4

199+14, 46.7'LT
CFE5

2-4" MULTICELL CONDUIT

200+80, 44.3'LT
CFE7
EXISTING LIGHTING UNIT TO REMAIN
8-1"

F.T.M.S.

197+81, 9.5'RT
LPB401
EXISTING LIGHTING PULL BOX TO REMAIN

199+15, 22.0'RT
CFE6/DFE6

REMOVE WIRE ONLY

196+16, 7.8'RT
CFE3/DFE3
EXISTING LIGHTING UNIT TO REMAIN

199+24, 23.2'RT
LPB405
EXISTING LIGHTING PULL BOX TO REMAIN

200+56, 22.8'RT
LPB402
EXISTING LIGHTING PULL BOX TO REMAIN

197+73, 74.2'RT
CFE4

197+81, 73.8'RT
LPB406
EXISTING LIGHTING PULL BOX TO REMAIN

1400

199+33, 87.6'RT
DFE5

199+29, 87.3'RT
LPB407
EXISTING LIGHTING PULL BOX TO REMAIN

200+42, 67.7'RT
DFE7
EXISTING LIGHTING UNIT TO REMAIN

198+40, 141.9'RT
DFE14

199+28, 166.9'RT
CFE14

ELLEN ST

1200

13+00

E OKLAHOMA AVE

CONSTRUCTION NOTES:

1. EQUIPMENT SHOWN BOLD SHALL BE REMOVED UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL DIPOSED OF REMOVED EXISTING LAMPS IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
3. THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

SHEET 1 OF 2

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET 85	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\LTG\023501_LP_16.DWG
LAYOUT NAME - 023501_lp_pg1

PLOT DATE : 9/1/2020 5:03 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- DISTRIBUTION CENTER
- CONDUIT - 2" UNLESS OTHERWISE NOTED
- EXISTING LIGHT POLE, ARM MOUNTED LUMINAIRE
- REMOVE LIGHTING UNIT
- PULL BOX
- JUNCTION BOX

202+15, 44.1'LT
DFE8
EXISTING LIGHTING
UNIT T REMAIN

STH 794

REMOVE
WIRE ONLY

REMOVE
WIRE ONLY

202+00 203+00 204+00 205+00 206+00 207+00

202+12, 21.9'RT
CFE9/DFE9
EXISTING LIGHTING
UNIT TO REMAIN

STH 794

201+92, 22.3'RT
LPB403
EXISITING LIGHTING
PULL BOX TO REMAIN

201+74, 67.6'RT
CFE8
EXISTING LIGHTING
UNIT TO REMAIN

CONSTRUCTION NOTES:

1. EQUIPMENT SHOWN BOLD SHALL BE REMOVED UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL DIPOSED OF REMOVED EXISTING LAMPS IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
3. THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

SHEET 2 OF 2

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	LIGHTING PLAN - REMOVAL	SHEET 86	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\LTG\023501_LP_16.DWG
LAYOUT NAME - 023501_lp_pg2

PLOT DATE : 9/1/2020 5:03 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- DISTRIBUTION CENTER
- CONDUIT - 2" UNLESS OTHERWISE NOTED
- EXISTING LIGHT POLE, ARM MOUNTED LUMINAIRE
- PULL BOX
- JUNCTION BOX

UNION PACIFIC RAILROAD

STH 794

196+00 197+00 198+00 199+00 200+00 201+00

*4C,N,D,G

196+16, 7.8'RT
CFE3/DFE3

197+81, 9.5'RT
LPB401
EXISTING LIGHTING
PULL BOX TO REMAIN

197+73, 74.2'RT
LPB406

199+24, 23.2'RT
LPB405
EXISTING LIGHTING
PULL BOX TO REMAIN

200+80, 44.3'LT
CFE7
EXISTING LIGHTING
UNIT TO REMAIN

*8C,N,G

200+56, 22.8'RT
LPB402
EXISTING LIGHTING
PULL BOX TO REMAIN

*8C,N,G
*8D,N,G
*4C,D,N,G

*8D,N,G

200+42, 67.7'RT
DFE7
EXISTING LIGHTING
UNIT TO REMAIN

199+29, 87.3'RT
LPB407
EXISTING LIGHTING
PULL BOX TO REMAIN

11+00

ELLEN ST

12+00

13+00

E OKLAHOMA AVE

SIGN

CONSTRUCTION NOTES:

1. EQUIPMENT SHOWN BOLD SHALL BE REMOVED UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL DIPOSED OF REMOVED EXISTING LAMPS IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
3. THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

SHEET 1 OF 2

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	LIGHTING PLAN	SHEET 87	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\LTG\023601_LP_16.DWG
LAYOUT NAME - 023601_lp_pg1

PLOT DATE : 9/1/2020 5:04 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- DISTRIBUTION CENTER
- CONDUIT - 2" UNLESS OTHERWISE NOTED
- EXISTING LIGHT POLE, ARM MOUNTED LUMINAIRE
- PULL BOX
- JUNCTION BOX

202+15, 44.1'LT
DFE8
EXISTING LIGHTING
UNIT TO REMAIN

2*8D,N,G

202+00 203+00 204+00 205+00 206+00 207+00

2*8C,N,D,G
*4C,N,D,G

202+12, 21.9'RT
CFE9/DFE9
EXISTING LIGHITNG
UNTI TO REMAIN

EXISTING TO REMAIN

204+11, 8.1'RT
CFE10/DFE10

*8C,N,G
*8D,N,G
*4C,D,N,G

201+92, 22.3'RT
LPB403
EXISTING LIGHTING
PULL BOX TO REMAIN

2*8C,N,G

201+74, 67.6'RT
CFE8
EXISTING LIGHTING
UNIT TO REMAIN

CONSTRUCTION NOTES:

1. EQUIPMENT SHOWN BOLD SHALL BE REMOVED UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL DIPOSED OF REMOVED EXISTING LAMPS IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
3. THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

SHEET 2 OF 2

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	LIGHTING PLAN	SHEET 88	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\LTG\023601_LP_16.DWG
LAYOUT NAME - 023601_lp_pg2

PLOT DATE : 9/1/2020 5:04 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

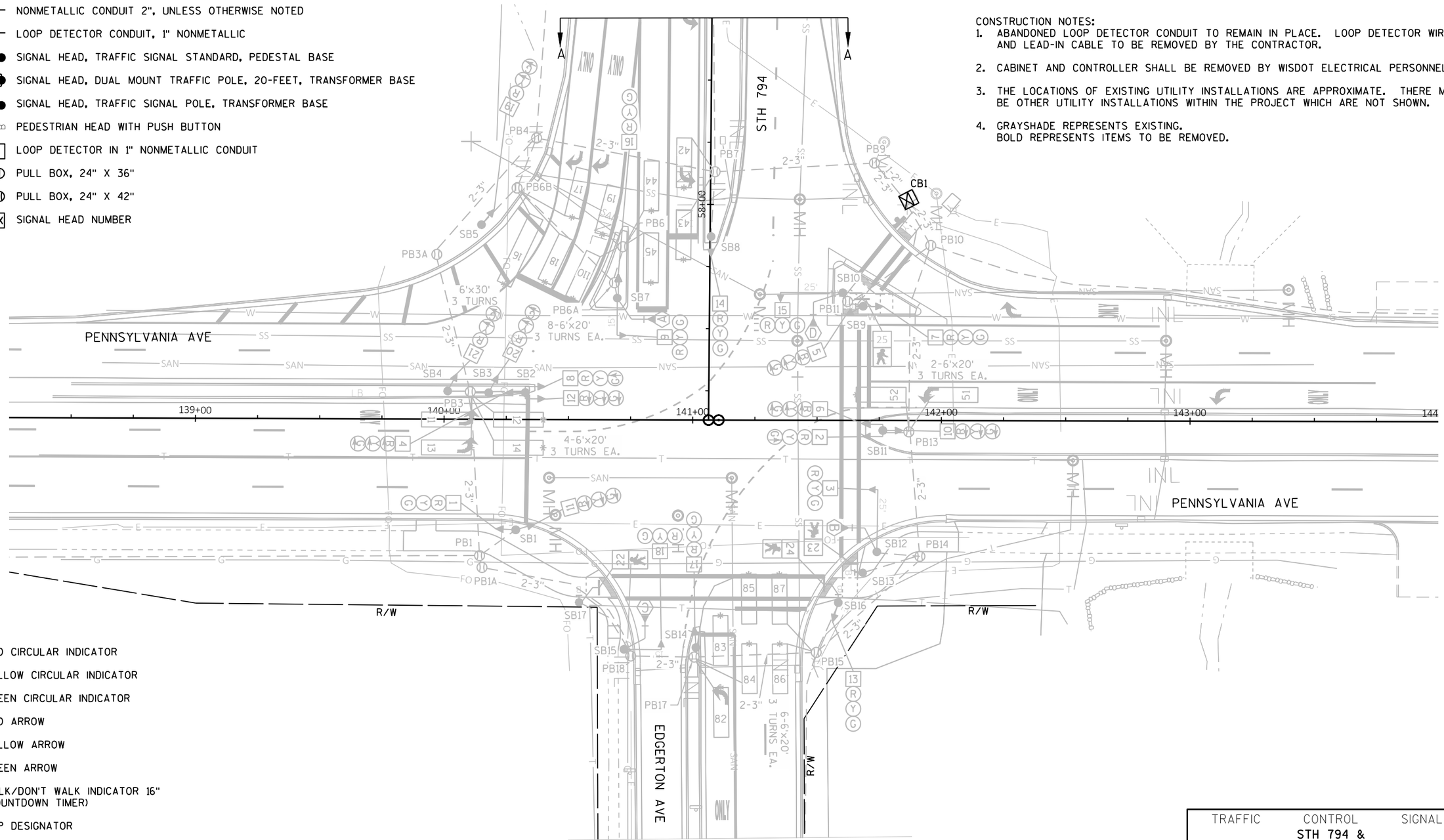
2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, DUAL MOUNT TRAFFIC POLE, 20-FEET, TRANSFORMER BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER

N

CONSTRUCTION NOTES:
1. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
2. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
3. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. GRAYSHADE REPRESENTS EXISTING.
BOLD REPRESENTS ITEMS TO BE REMOVED.



- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- AG G G GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- Y YIELD SIGN

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
STH 794 &
S PENNSYLVANIA AVE
MILWAUKEE COUNTY

SIGNAL NO. S40-1231

REGION CONTACT: P. VIRK
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 1 OF 2

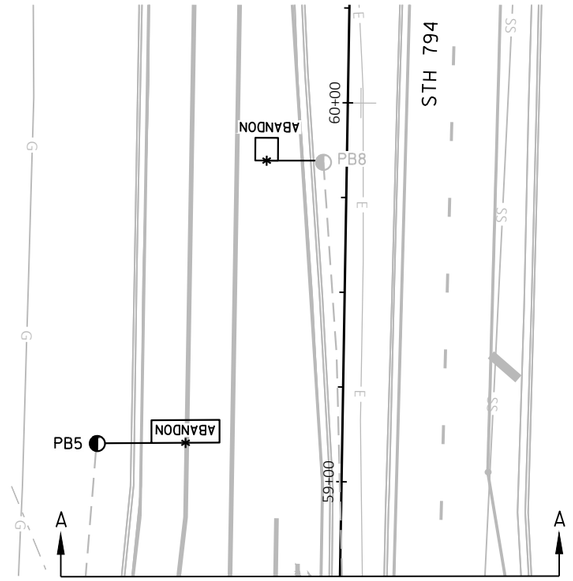
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 89	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\S40-1231\S40-1231_REM_16.DWG
LAYOUT NAME - S40-1231_rem_pg1
PLOT DATE : 8/26/2020 9:14 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N



TRAFFIC CONTROL SIGNAL

STH 794 &
S PENNSYLVANIA AVE
MILWAUKEE COUNTY

SIGNAL NO. S40-1231

REGION CONTACT: P. VIRK
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 2 OF 2

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 90	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\S40-1231\S40-1231_REM_16.DWG
LAYOUT NAME - S40-1231_rem_pg2

PLOT DATE : 8/26/2020 9:14 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : ##########

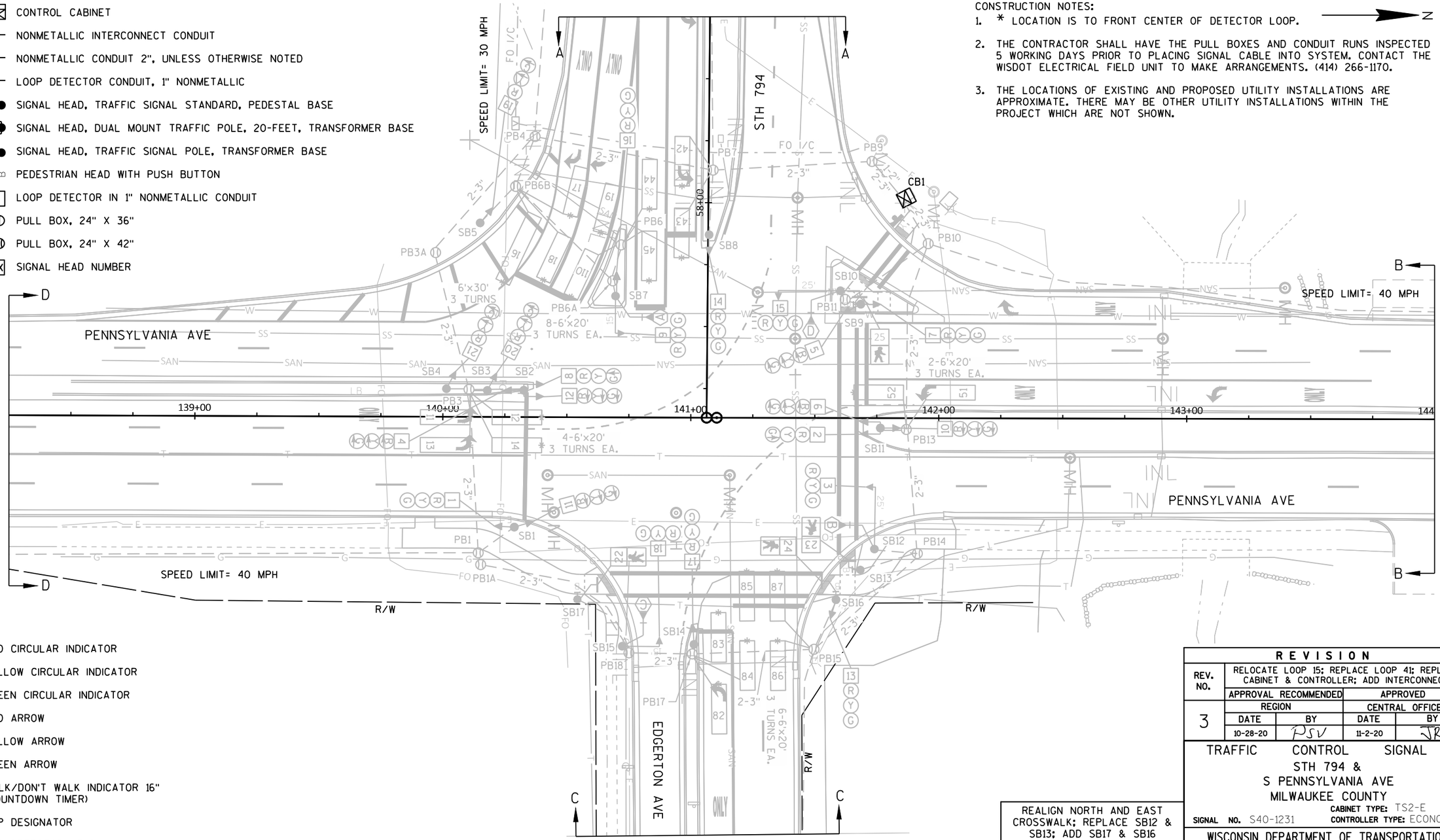
LEGEND

- CONTROL CABINET
- NONMETALLIC INTERCONNECT CONDUIT
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, DUAL MOUNT TRAFFIC POLE, 20-FEET, TRANSFORMER BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

N



- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (AG) (G) GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- Y YIELD SIGN

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

REVISION				
REV. NO.	RELOCATE LOOP 15; REPLACE LOOP 41; REPLACE CABINET & CONTROLLER; ADD INTERCONNECT			
	APPROVAL RECOMMENDED		APPROVED	
3	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY
	10-28-20	PSV	11-2-20	JRJ

REALIGN NORTH AND EAST CROSSWALK; REPLACE SB12 & SB13; ADD SB17 & SB16
ADD PED HEADS & BUTTONS ON N. LEG 2017
ASBUILT UPDATED FIELD CHANGES 2017
INITIAL INSTALL 2004

TRAFFIC CONTROL SIGNAL
STH 794 &
S PENNSYLVANIA AVE
MILWAUKEE COUNTY

SIGNAL NO. S40-1231
CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 5/04/04 — ANNE RESHADI-NEZAD, REGION TRAFFIC ENGINEER

APPROVED
DATE 6/17/04 — WILLIAM C. GILDING, STATE TRAFFIC ENGINEER

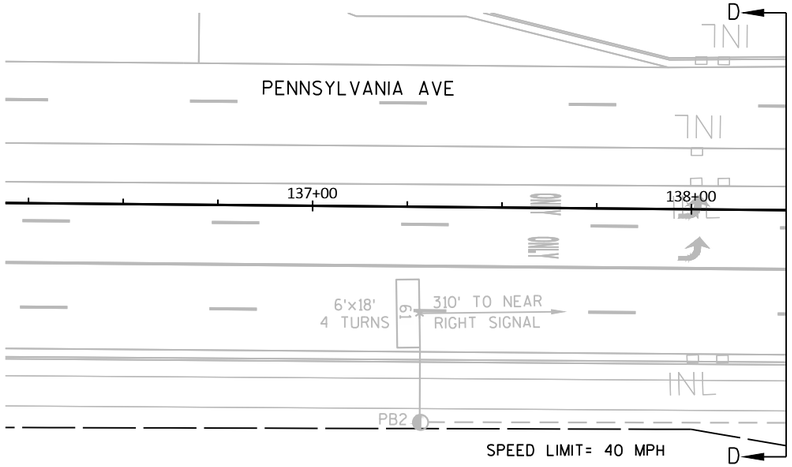
REGION CONTACT: P. VIRK
DESIGNED BY:
REVISED BY: C. VANDE LEEST

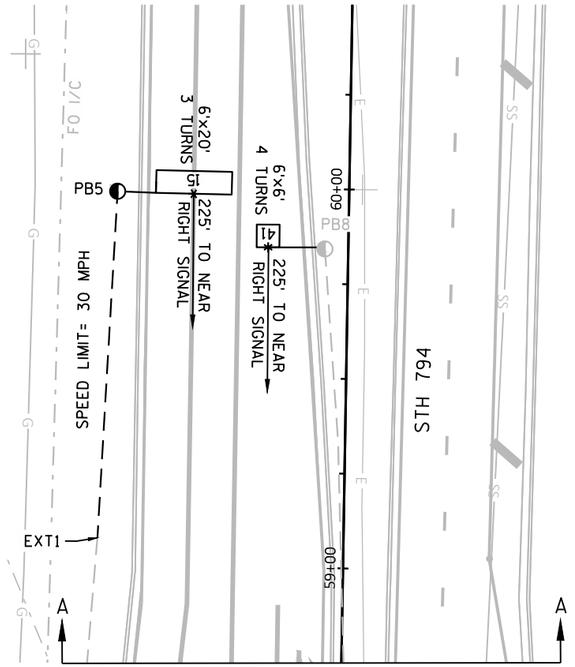
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 91	E

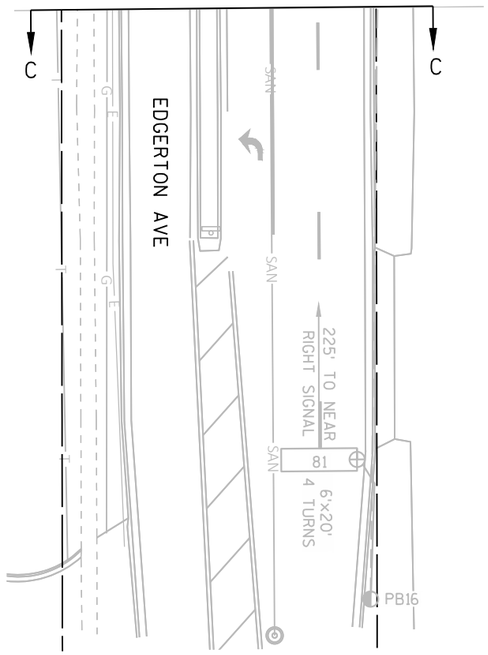
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LAYOUT NAME - S40-1231_R3_pg1
PLOT DATE : 11/4/2020 2:59 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

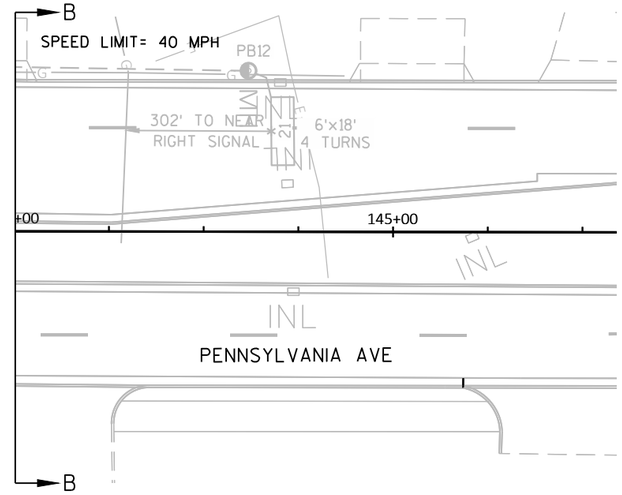
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N









TRAFFIC CONTROL SIGNAL

STH 794 &
S PENNSYLVANIA AVE
MILWAUKEE COUNTY

SIGNAL NO. S40-1231

REGION CONTACT: P. VIRK
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 2 OF 3

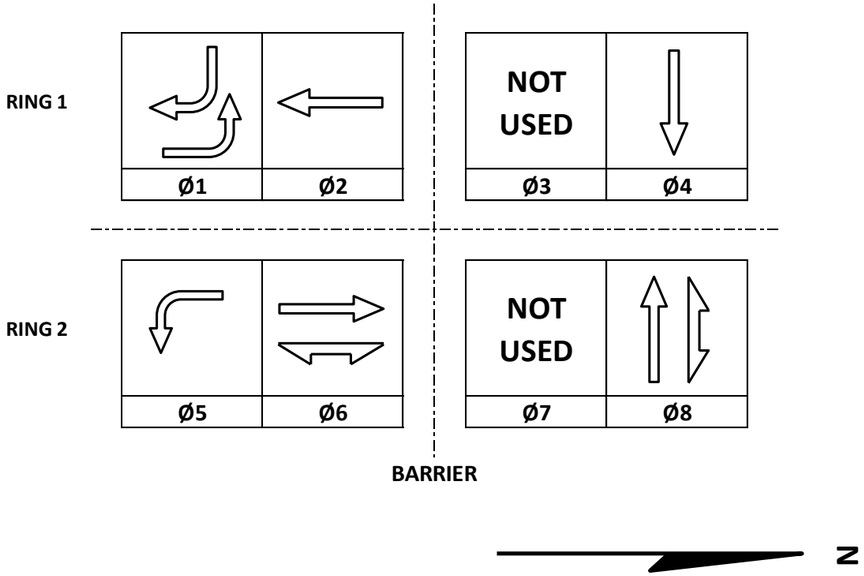
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 92	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\S40-1231\S40-1231_R4_16.DWG
LAYOUT NAME - S40-1231_R4_pg2

PLOT DATE : 10/22/2020 8:40 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5,6,19,20,21	R ←
Ø2	7,8,9	R
Ø3		
Ø4	16,17,18	R
Ø5	10,11,12	R ←
Ø6	1,2,3	R
Ø7		
Ø8	13,14,15	R
Ø2P		
Ø4P		
Ø6P	22,24	
Ø8P	23,25	
OLE		
OLF		
OLG		
OLH		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3				
4		8		X
5		2		X
6	X	2	MIN	X
7				
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓ ↑	↓ ↑
PHASE	2+5	6+1	4+8	8+4

AFTER PREEMPTION SEQUENCE 2+5 OR 1+6, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	X
IN TRAFFIC CABINET	
IN SEPARATE DOT LIGHTING CABINET	X

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	X
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	13	15	17	19	21	42	44
CALLED PHASE	1	1	1	1	1	2	4	4
CALL OPTION	X	X		X	X	X	X	X
DELAY TIME				X	X			
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME			X					
USE ADDED INITIAL						X		
CROSS SWITCH PHASE								

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	51	61	82	84	86			
CALLED PHASE	5	6	8	8	8			
CALL OPTION	X	X	X	X	X			
DELAY TIME					X			
EXTENTION OPTION	X	X	X	X	X			
EXTEND TIME								
USE ADDED INITIAL		X						
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	14	16	18	110	41	43	45
CALLED PHASE	1	1	1	1	1	4	4	4
CALL OPTION	X	X	X	X	X		X	X
DELAY TIME			X	X	X			
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME						X		
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	52	81	83	85	87			
CALLED PHASE	5	8	8	8	8			
CALL OPTION	X		X	X	X			
DELAY TIME					X			
EXTENTION OPTION	X	X	X	X	X			
EXTEND TIME		X						
USE ADDED INITIAL								
CROSS SWITCH PHASE								

STH 794 & PENNSYLVANIA AVE
CITY OF CUDAHY
MILWAUKEE COUNTY
SIGNAL NO: S40-1231 CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE
DATE: 11/2020 PAGE NUMBER: 3 OF 3

FILE NAME: \\WKERTOVFILP101\v3public\SPO\Operations\Signals\Resources\Design\Sequence of Ops Templates\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: ########## PLOT NAME: TS2-S_E_FYA_EFGH_Ecor PLOT BY: _____ PLOT SCALE: 1:1

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC CONDUIT 2" MOUNTED UNDER THE BRIDGE
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- 15' SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LOOP DETECTOR IN PAVEMENT
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR

- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- JUNCTION BOX
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- Y YIELD SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:
1. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
2. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.

N

STH 794 SB OFF RAMP
STH 794 SB
STH 794 NB
STH 794 NB ON RAMP
LAYTON AVE
ABANDON
ONLY
WALL
BRIDGE WALL
INL
EMPTY
1-2" FTMS MOUNTED UNDER THE BRIDGE
1-3" TO BRIDGE
1-3" 1-2" TO BRIDGE
FTMS
MH
GVT

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 94 E

TRAFFIC CONTROL SIGNAL
STH 794 RAMPS & LAYTON AVE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1292

REGION CONTACT: P. VIRK
DESIGNED BY:
REVISED BY: C. VANDE LEEST

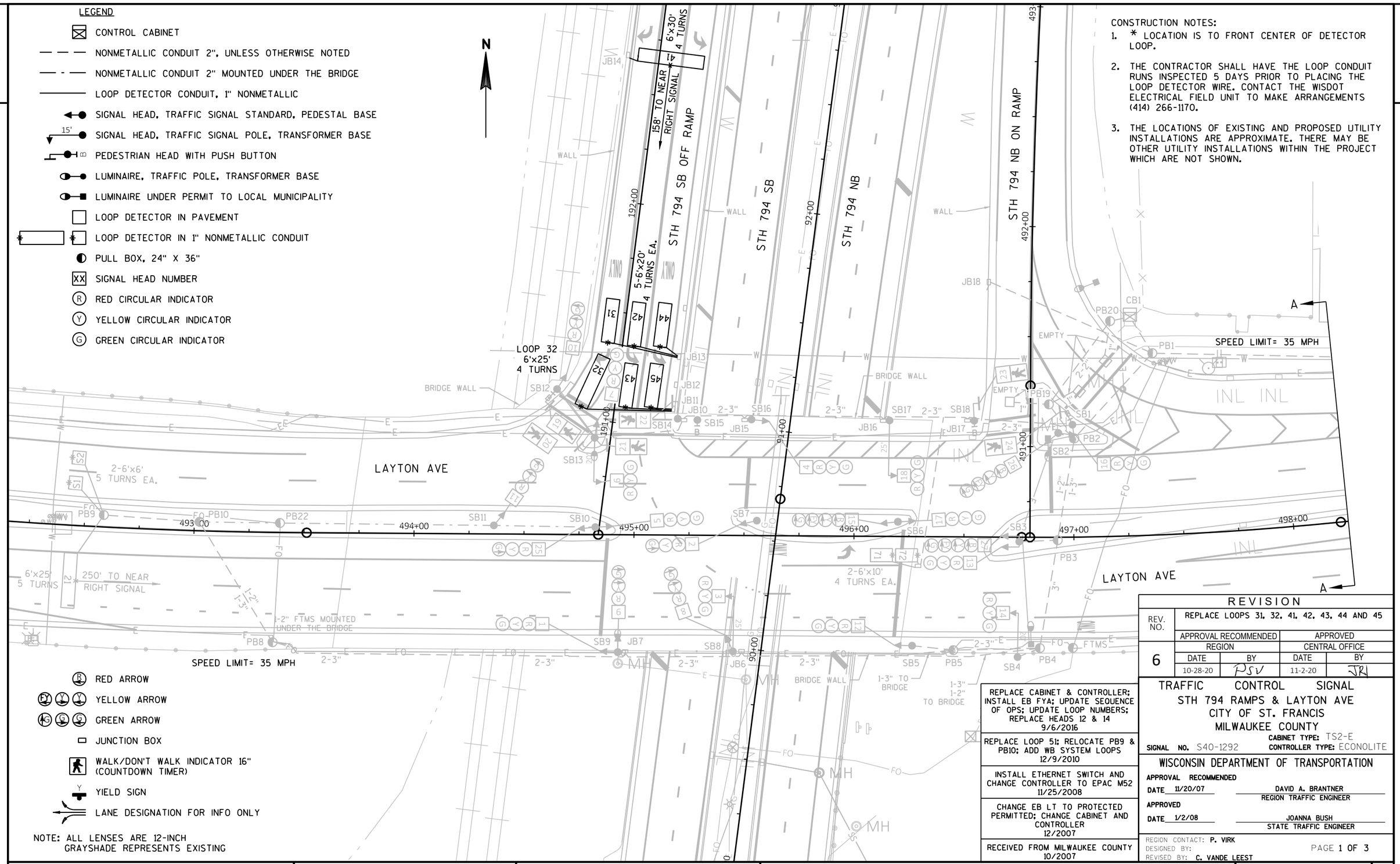
PAGE 1 OF 1

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\S40-1292\S40-1292_REM_16.DWG
LAYOUT NAME - S40-1292_rem_pg1
PLOT DATE : 8/25/2020 10:19 AM
PLOT BY : VANDE LEEST, CYNTHIA
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC CONDUIT 2" MOUNTED UNDER THE BRIDGE
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LOOP DETECTOR IN PAVEMENT
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR



- (R) RED ARROW
- (FY)(Y)(Y) YELLOW ARROW
- (AG)(G)(G) GREEN ARROW
- JUNCTION BOX
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- Y YIELD SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE LOOP CONDUIT RUNS INSPECTED 5 DAYS PRIOR TO PLACING THE LOOP DETECTOR WIRE. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

REVISION

REV. NO.	REPLACE LOOPS 31, 32, 41, 42, 43, 44 AND 45			
	APPROVAL RECOMMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
6	DATE	BY	DATE	BY
	10-28-20	PSV	11-2-20	JRH

REPLACE CABINET & CONTROLLER; INSTALL EB FYA; UPDATE SEQUENCE OF OPS; UPDATE LOOP NUMBERS; REPLACE HEADS 12 & 14
9/6/2016

REPLACE LOOP 51; RELOCATE PB9 & PB10; ADD WB SYSTEM LOOPS
12/9/2010

INSTALL ETHERNET SWITCH AND CHANGE CONTROLLER TO EPAC M52
11/25/2008

CHANGE EB LT TO PROTECTED PERMITTED; CHANGE CABINET AND CONTROLLER
12/2007

RECEIVED FROM MILWAUKEE COUNTY
10/2007

TRAFFIC CONTROL SIGNAL
STH 794 RAMPS & LAYTON AVE
CITY OF ST. FRANCIS
MILWAUKEE COUNTY

CABINET TYPE: TS2-E
SIGNAL NO. S40-1292 CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 11/20/07 DAVID A. BRANTNER, REGION TRAFFIC ENGINEER

APPROVED
DATE 1/2/08 JOANNA BUSH, STATE TRAFFIC ENGINEER

REGION CONTACT: P. VIRK
DESIGNED BY:
REVISED BY: C. VANDE LEEST

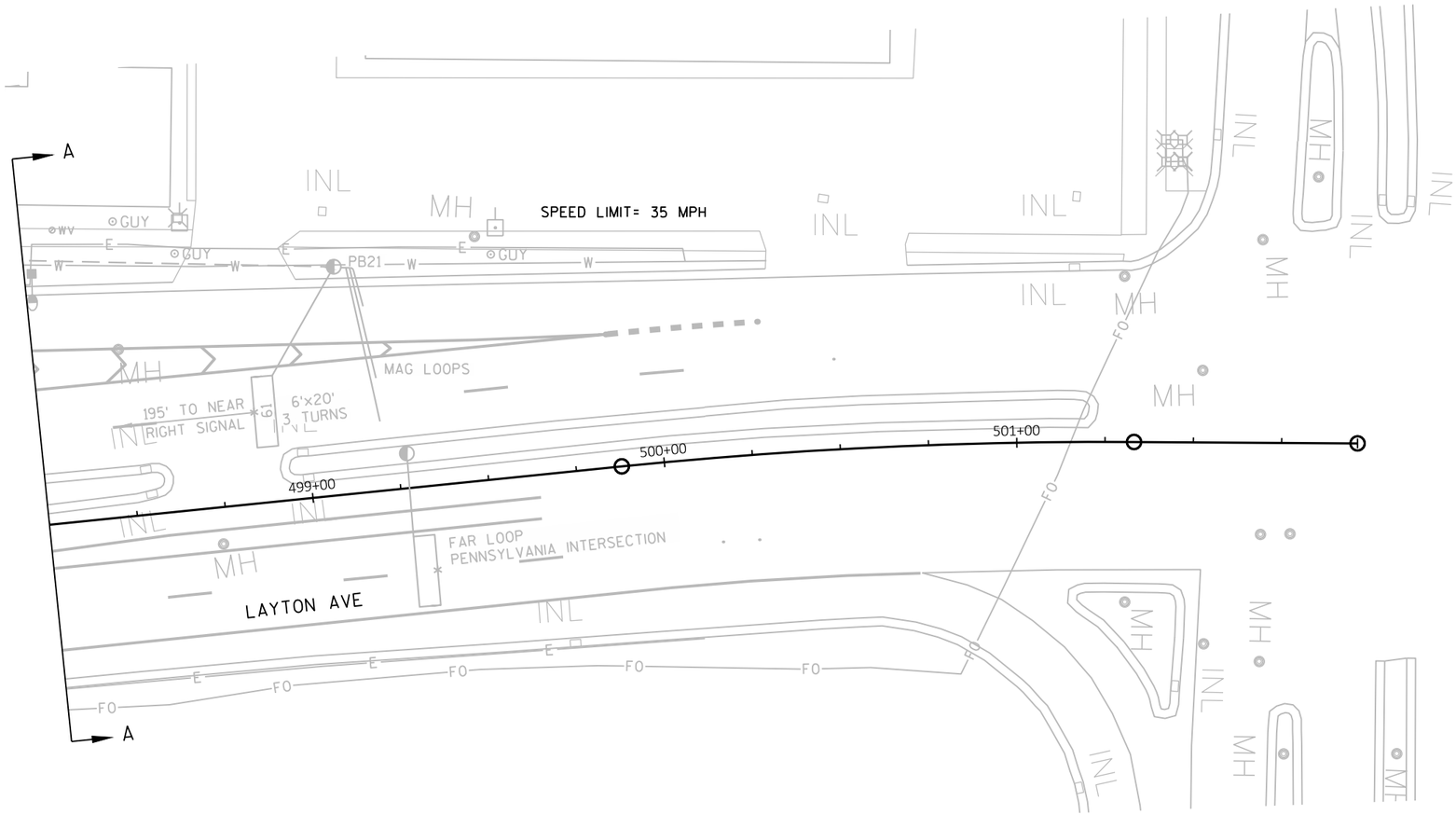
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 95	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\S40-1292\S40-1292_R6_16.DWG
LAYOUT NAME - S40-1292_R6_pg1
PLOT DATE : 11/4/2020 2:53 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N



TRAFFIC CONTROL SIGNAL
STH 794 RAMPS & LAYTON AVE
CITY OF MILWAKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1292

REGION CONTACT: P. VIRK
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 2 OF 3

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 96	E

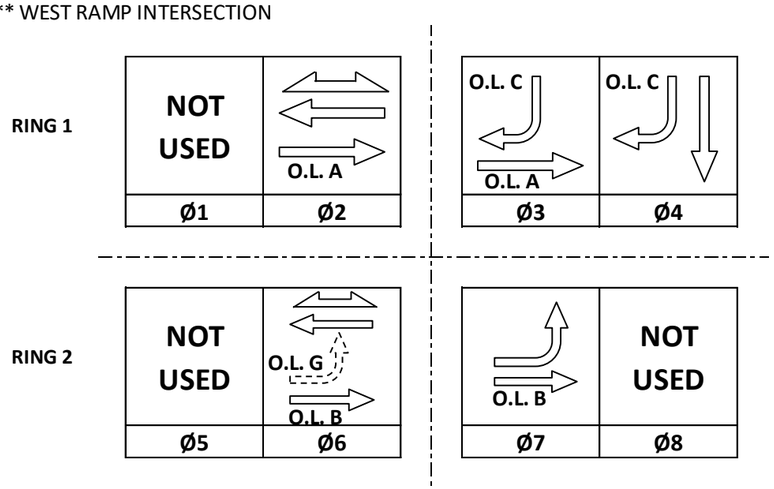
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LAYOUT NAME - S40-1292_R6_pg2

PLOT DATE : 10/22/2020 8:47 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1		
Ø2	4,5,6	R
Ø3		
Ø4	7,8,9	R
Ø5		
Ø6	16,17,18	R
Ø7	15,26,27	R ←
Ø8		
Ø2P	19,20,21,22	
Ø6P	23,24	
OLA	1,2,3,25	R
OLB	12,13,14	R
OLC	10,11	R
OLD		
OLE		
OLF		
OLG	15,26,27	-

** WEST RAMP INTERSECTION



** EAST RAMP INTERSECTION

* RING 1 SHALL CONTROL THE WEST RAMP
* RING 2 SHALL CONTROL THE EAST RAMP

N

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MIN	X
3		7		X
4		7		X
5				
6	X	2	MIN	X
7		4		X
8				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	X
IN TRAFFIC CABINET	
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	21	32	42	44	61	72		S1
CALLED PHASE	2	3,4	4	4	6	7		
CALL OPTION	X	X	X	X	X	X		
DELAY TIME		X						
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME								
USE ADDED INITIAL	X				X			
CROSS SWITCH PHASE								

19	17	23	21	27	25	31	29	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	31	41	43	45	71			S2
CALLED PHASE	3,4	4	4	4	7			
CALL OPTION	X		X	X	X			
DELAY TIME	X							
EXTENTION OPTION	X	X	X	X	X			
EXTEND TIME		X						
USE ADDED INITIAL								
CROSS SWITCH PHASE								

20	18	24	22	28	26	32	30	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

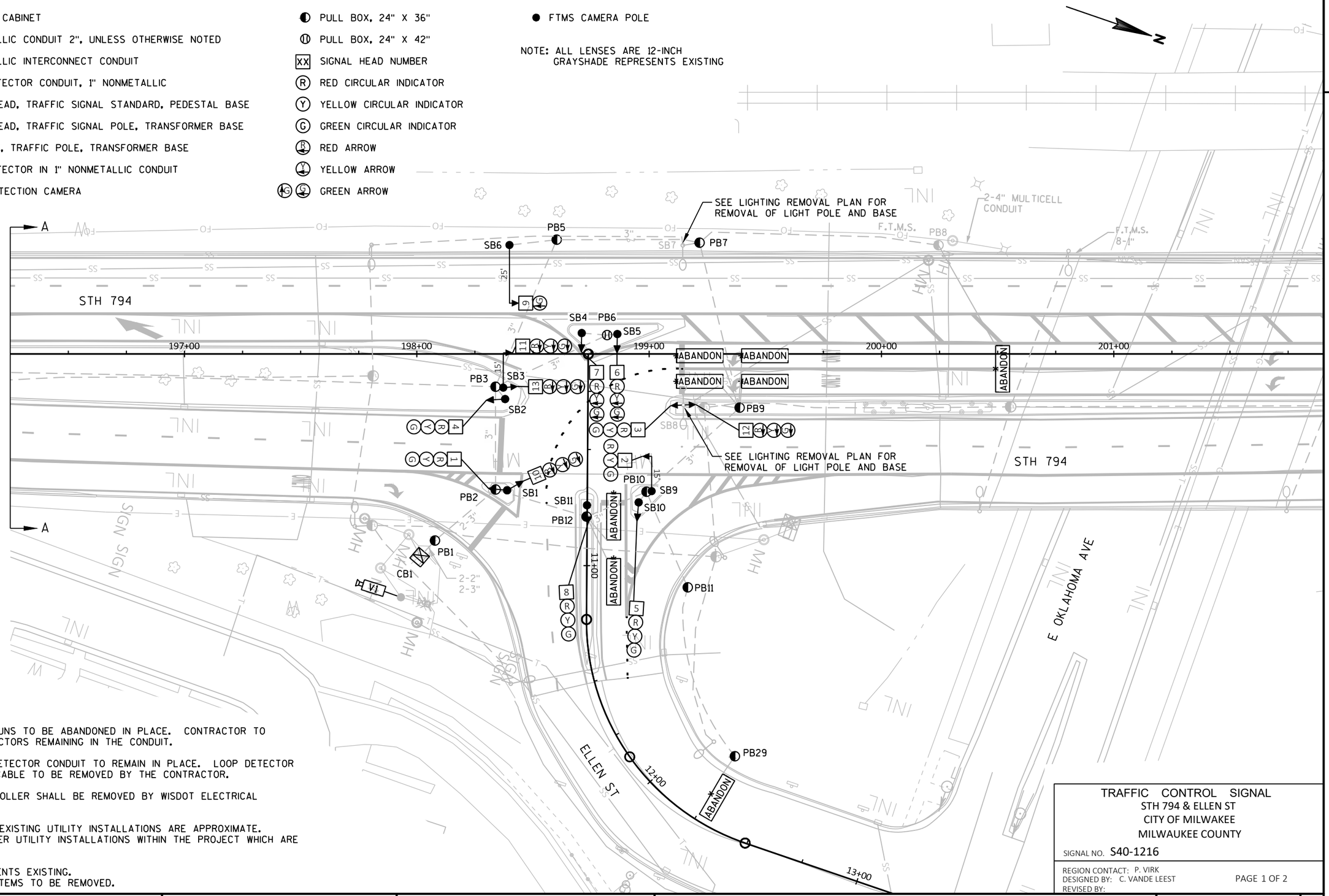
STH 794 RAMPS & LAYTON AVE
CITY OF ST. FRANCIS
MILWAUKEE COUNTY

SIGNAL NO: S40-1292 CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE
DATE: 11/2020 PAGE NO. 3 OF 3

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE (15')
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VIDEO DETECTION CAMERA (XX)
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- SIGNAL HEAD NUMBER (XX)
- RED CIRCULAR INDICATOR (R)
- YELLOW CIRCULAR INDICATOR (Y)
- GREEN CIRCULAR INDICATOR (G)
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- FTMS CAMERA POLE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
5. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.

TRAFFIC CONTROL SIGNAL
STH 794 & ELLEN ST
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1216

REGION CONTACT: P. VIRK
DESIGNED BY: C. VANDE LEEST
REVISED BY:

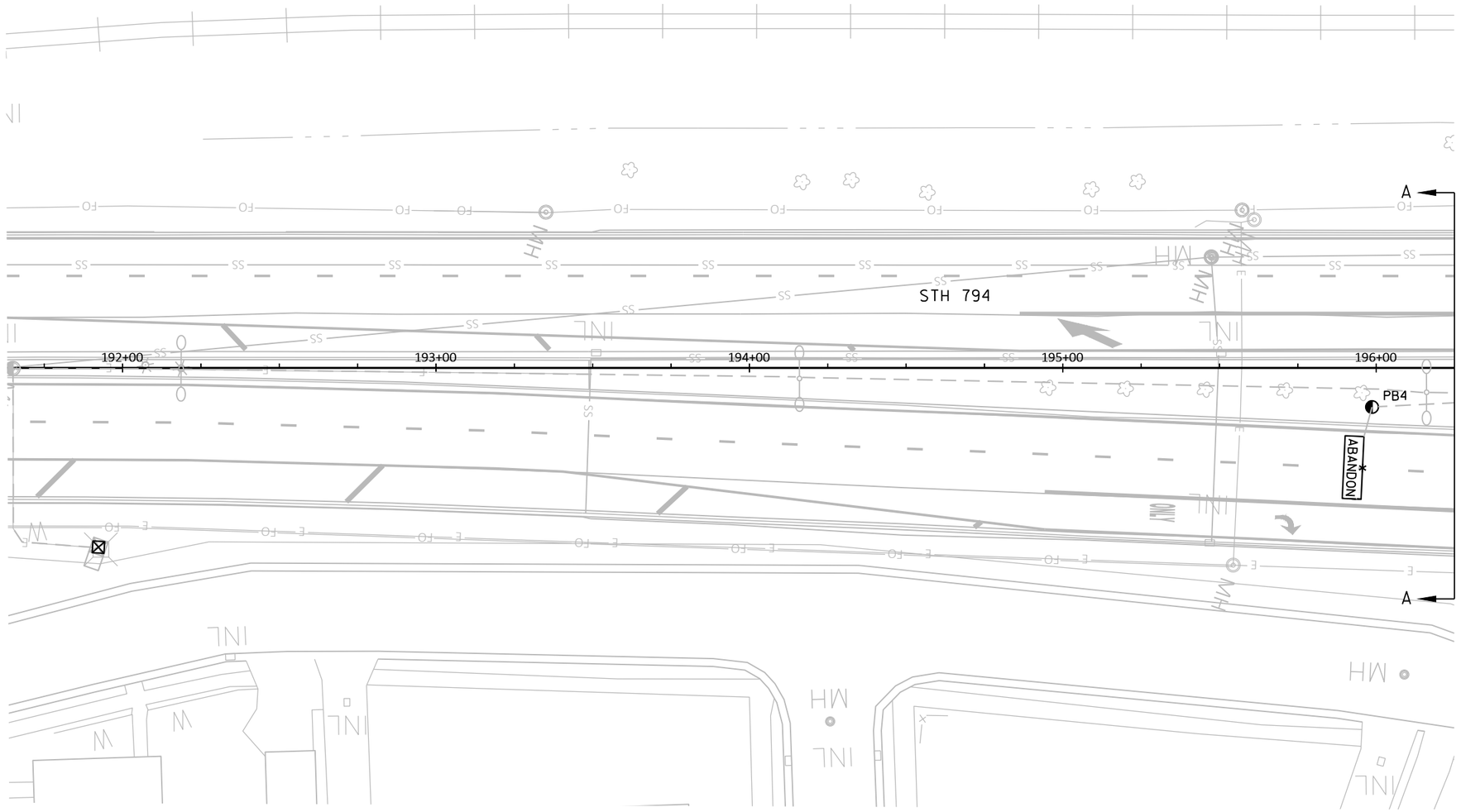
PAGE 1 OF 2

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 98	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\S40-1216\S40-1216_REM_16.DWG
LAYOUT NAME - S40-1216_rem_pg1
PLOT DATE : 8/26/2020 7:02 AM
PLOT BY : VANDE LEEST, CYNTHIA
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL SIGNAL
STH 794 & ELLEN ST
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1216

REGION CONTACT: P. VIRK
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 2 OF 2

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 99	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\S40-1216\S40-1216_REM_16.DWG
LAYOUT NAME - S40-1216_rem_pg2

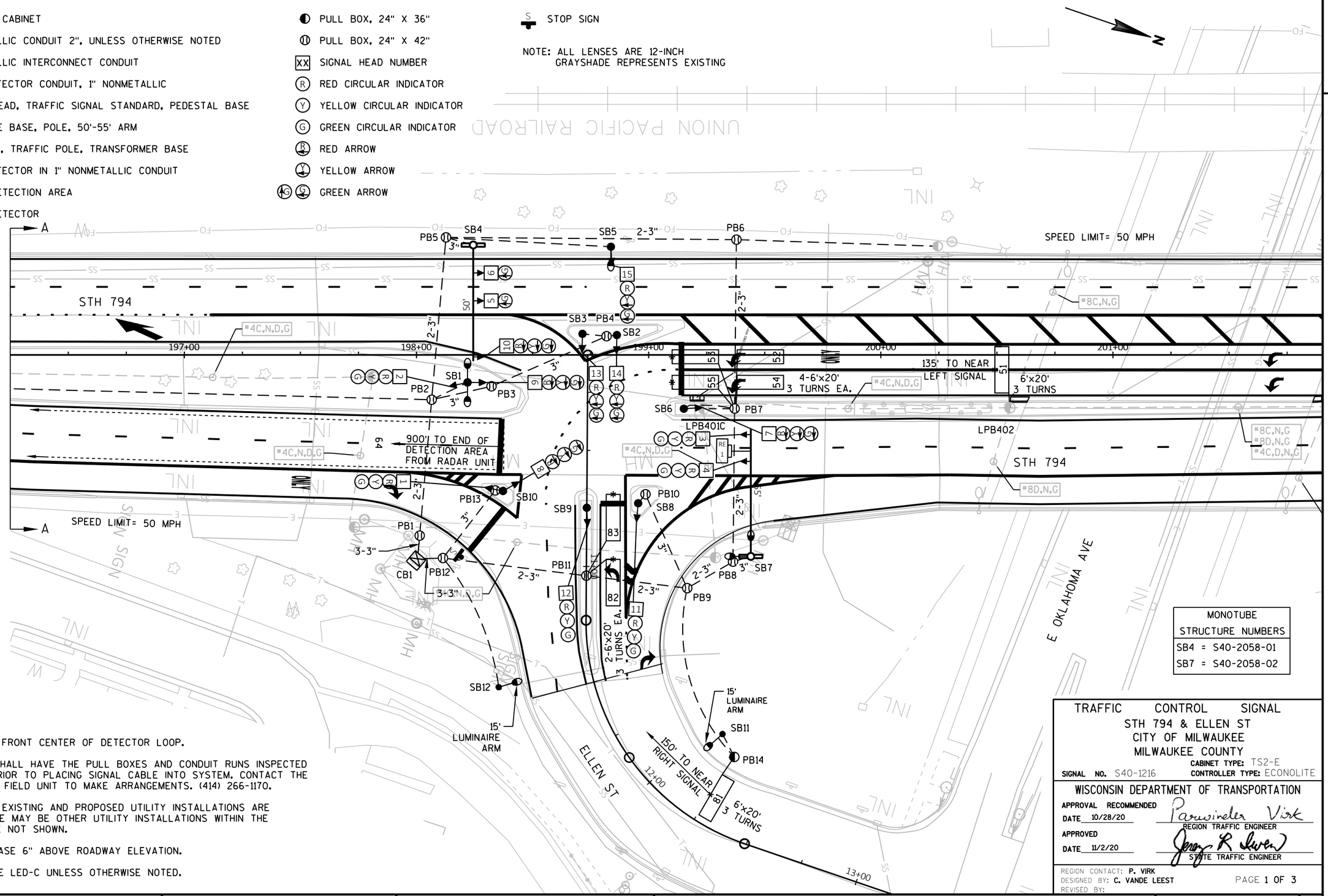
PLOT DATE : 8/26/2020 7:03 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 50'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- RADAR DETECTION AREA
- RX / X RADAR DETECTOR
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- S STOP SIGN

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL SIGNAL
STH 794 & ELLEN ST
CITY OF MILWAUKEE
MILWAUKEE COUNTY
CABINET TYPE: TS2-E
SIGNAL NO. S40-1216 CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVAL RECOMMENDED
DATE 10/28/20 Parminder Virk
REGION TRAFFIC ENGINEER
APPROVED
DATE 11/2/20 Jerry R. Olwen
STATE TRAFFIC ENGINEER

REGION CONTACT: P. VIRK
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 1 OF 3

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 100	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\S40-1216\S40-1216_16.DWG
LAYOUT NAME - S40-1216_pg1
PLOT DATE : 11/4/2020 2:49 PM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

STH 794

A

SB14

191+00

192+00

193+00

194+00

195+00

196+00

PB400

PB19

750' FROM
STOP BAR

3"

PB16

6'x20'
4 TURNS

440' TO NEAR
RIGHT SIGNAL

PB15

2-6'x6'
5 TURNS EA.

265' TO NEAR
RIGHT SIGNAL

SB13

PB18

PB17

SPEED LIMIT= 50 MPH

A

TRAFFIC CONTROL SIGNAL
STH 794 & ELLEN ST
CITY OF MILWAKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1216

REGION CONTACT: P. VIRK
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 2 OF 3

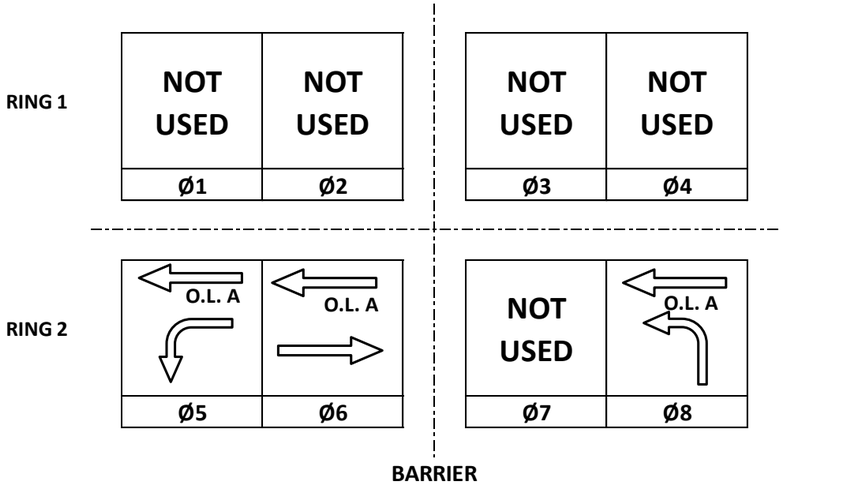
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 101	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\S40-1216\S40-1216_16.DWG
LAYOUT NAME - S40-1216_pg2

PLOT DATE : 10/22/2020 8:28 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1		
Ø2		
Ø3		
Ø4		
Ø5	7,8,9,10	R ←
Ø6	1,2,3,4	R
Ø7		
Ø8	11,12,13,14,15	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA	5,6	
BCN	16,17,18,19	FY
OLG		
OLH		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2				
3				
4				
5				X
6	X		MIN	X
7				
8				X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	51	53	55	62	81	83		
CALLED PHASE	5	5	5	6	8	8		
CALL OPTION		X	X	X		X		
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME	X				X			
USE ADDED INITIAL				X				
CROSS SWITCH PHASE								

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	64							
CALLED PHASE	6							
CALL OPTION	X							
DELAY TIME								
EXTENTION OPTION	X							
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	52	54	61	63	82			
CALLED PHASE	5	5	6	6	8			
CALL OPTION	X	X	X	X	X			
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X			
EXTEND TIME								
USE ADDED INITIAL			X	X				
CROSS SWITCH PHASE								

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

GENERAL NOTES

1 BCN = "BE PREPARED TO STOP WHEN FLASHING" BEACON

2 PREPARE TO STOP WHEN FLASHING BEACON SHALL DEACTIVATE AT START OF PHASE 6 GREEN INTERVAL AND REACTIVIATE 10 SECONDS PRIOR TO START OF PHASE 6 YELLOW INTERVAL

3 PREPARE TO STOP WHEN FLASHING BEACONS SHALL FLASH ALTERNATETY ON EACH POLE

STH 794 & ELLEN ST
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO: S40-1216 CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE
DATE: 11/2020 PAGE NUMBER: 3 OF 3

FILE NAME: \\WKERTOVFILP01\n3public\SPO\Operations\Signals\Resources\Design\Sequence of Ops Templates\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: ######### PLOT NAME: TS2-S_E_FYA_EFGH_Ecor PLOT BY: _____ PLOT SCALE: 1:1

PROJECT ID:	1300-03-72
INTERSECTION:	STH 794 & Ellen St

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	FUTURE APS
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	12	2	RED	ORG	GRN								
		9				RED/BLK	ORG/BLK	GRN/BLK					
SB2	7	14	RED				ORG	GRN					
SB3	7	13	RED				ORG	GRN					
SB4	12	5						GRN					
		6						GRN					
		10				RED/BLK	ORG/BLK	GRN/BLK					
SB5	7	15	RED				ORG	GRN					
SB6	7	7				RED	ORG	GRN					
SB7	7	3	RED	ORG	GRN								
		4	RED	ORG	GRN								
SB8	7	11	RED	ORG	GRN								
SB9	7	12	RED	ORG	GRN								
SB10	12	1	RED	ORG	GRN								
		8				RED/BLK	ORG/BLK	GRN/BLK					
SB13	7	16							ORG				
		17							RED				
SB14	7	18							ORG				
		19							RED				

*Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.
*Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB2	SB1
PB3	SB1
PB4	SB2
PB5	SB4
PB6	SB4
PB7	SB6
PB8	SB7
PB9	SB7
PB10	SB8
PB11	SB9
PB12	CB1
PB13	CB1
PB15	SB1
PB16	SB13
PB17	SB13
PB18	SB13
PB19	SB14

Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB13
SB13	SB14
SB14	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	CB1

Radar Detection Cable	
From	To
CB1	SB7 (RE1)

Lighting UF 2-10 AWG Grounded	
From	To
CB1	SB1
SB1	SB5
CB1	SB12
SB12	SB7
SB7	SB11

2

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- CONDUIT HDPE 4-DUCT 1 ¼", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- COMMUNICATIONS VAULT

N

PENNSYLVANIA AVE

SPLICE INTO EXISTING WISDOT
FIBER OPTIC CABLE
FIBER OPTIC SPLICE (4)
FIBER OPTIC SPLICE ENCLOSURE

INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 36-COUNT
INSTALL INTO EXISTING FTMS SPARE CONDUIT

FTMS
EXCV1

FTMS
EXCV2

STH 794

INSTALL FIBER OPTIC CABLE PIGTAIL 8-COUNT
INSTALL NO. 12 AWG TRAFFIC SIGNAL WIRE

140+00
141+00
142+00
58+00
59+00
60+00
61+00
62+00
63+00

STH 794

FTMS
EXPB

CB1
S40-1231

INSTALL FIBER OPTIC CABLE PIGTAIL 8-COUNT
INSTALL NO. 12 AWG TRAFFIC SIGNAL WIRE

CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. LEAVE 100-FEET OF FIBER OPTIC INTERCONNECT PIGTAIL COILED IN EACH COMMUNICATIONS VAULT AND 30-FEET IN EACH PULL BOX.
3. THE ENTIRE MAINLINE FIBER OPTIC CABLE SHALL NOT BE CUT AND/OR SPLICED IN THE VAULTS NEAREST THE TRAFFIC SIGNAL CABINET WHILE MAKING THE PIGTAIL CONNECTION. ONLY THE REQUIRED BUFFER TUBE SHALL BE CUT AND SPLICED WITH THE PIGTAIL CONNECTION.
4. 12 AWG PULL WIRE TO BE INSTALLED AS FIBER OPTIC TRACER WIRE IN INTERCONNECT CONDUIT.
5. PROPOSED STORM SEWER, LIGHTING, FTMS, DETECTABLE WARNING FIELDS, AND TRAFFIC SIGNALS ARE SHOWN GRAYSHADED FOR PLAN CLARITY.

TRAFFIC SIGNAL INTERCONNECT
STH 794
CITY OF CUDAHY/CITY OF ST. FRANCIS
MILWAUKEE COUNTY

SIGNAL NO. S40-1231

REGION CONTACT: P. VIRK
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 104	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\IC\FOIC_1300-03-02_16.DWG
LAYOUT NAME - FOIC_pg01
PLOT DATE : 8/26/2020 7:50 AM
PLOT BY : VANDE LEEST, CYNTHIA
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- CONDUIT HDPE 4-DUCT 1 ¼", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- COMMUNICATIONS VAULT

INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 36-COUNT
INSTALL INTO EXISTING FTMS SPARE CONDUIT

INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 36-COUNT
INSTALL INTO EXISTING BRIDGE CONDUIT

FTMS
EXCV3

FTMS
EXCV2

STH 794

STH 794

62+00

63+00

64+00

65+00

66+00

67+00

68+00

HWY

HWY

SS

SS

SS

SS

SS

N

TRAFFIC SIGNAL INTERCONNECT
STH 794
CITY OF CUDAHY/CITY OF ST. FRANCIS
MILWAUKEE COUNTY

SIGNAL NO. S40-1231

REGION CONTACT: P. VIRK
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 2 OF 6

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 105	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\IC\FOIC_1300-03-02_16.DWG
LAYOUT NAME - FOIC_pg02

PLOT DATE : 8/26/2020 7:50 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

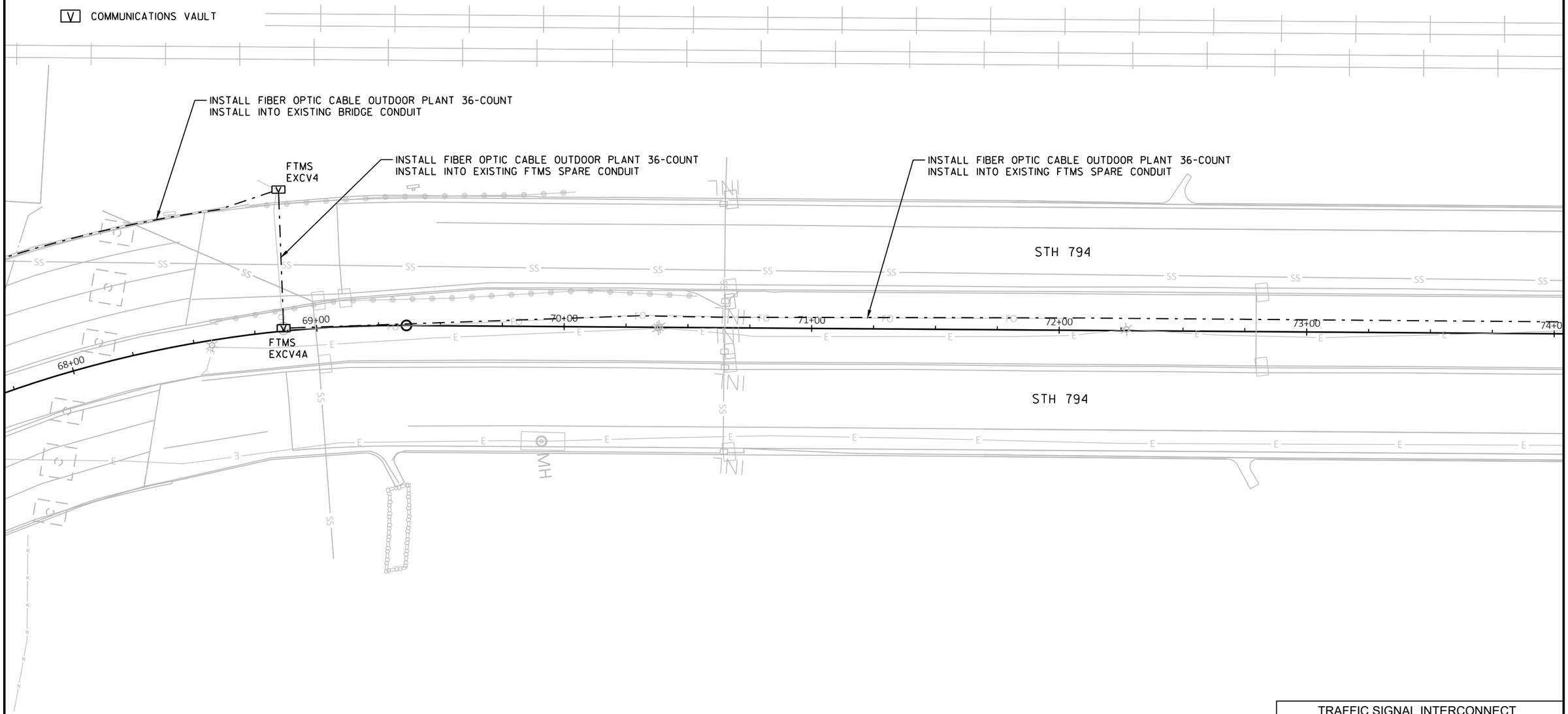
WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- CONDUIT HDPE 4-DUCT 1 ¼", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- COMMUNICATIONS VAULT

N



TRAFFIC SIGNAL INTERCONNECT
STH 794
CITY OF CUDAHY/CITY OF ST. FRANCIS
MILWAUKEE COUNTY

SIGNAL NO. S40-1231

REGION CONTACT: P. VIRK
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 3 OF 6

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 106	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\IC\FOIC_1300-03-02_16.DWG
LAYOUT NAME - FOIC_pg03

PLOT DATE : 8/26/2020 7:51 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

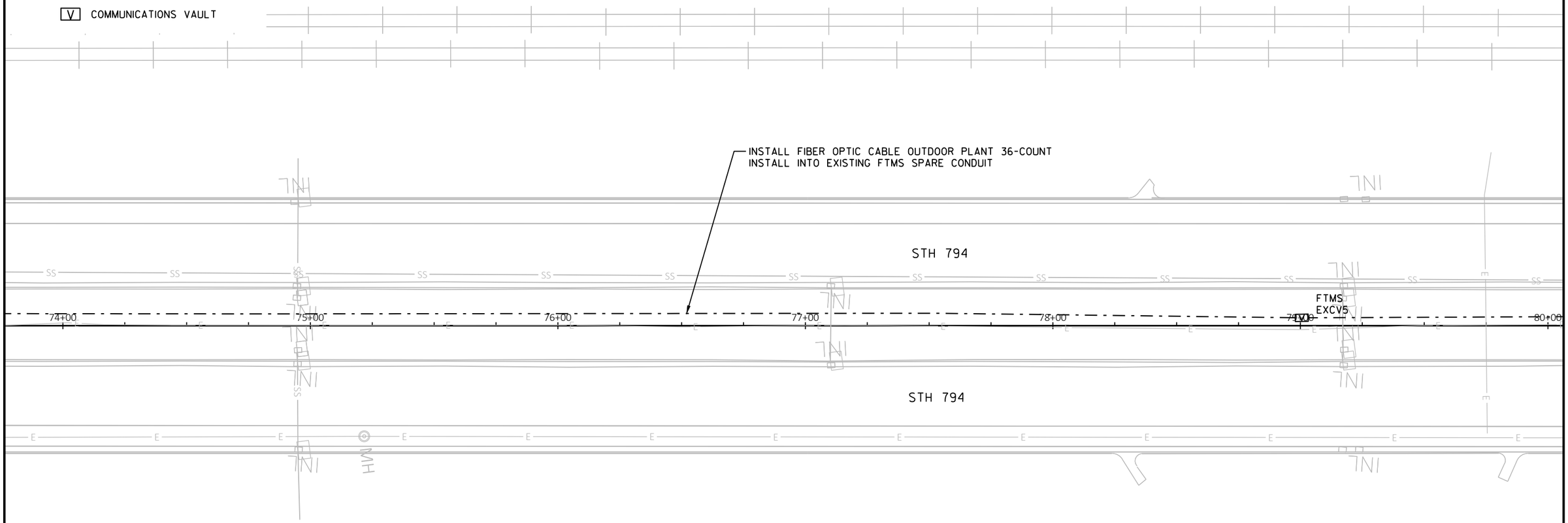
WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- CONDUIT HDPE 4-DUCT 1 ¼", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- COMMUNICATIONS VAULT

N



TRAFFIC SIGNAL INTERCONNECT
STH 794
CITY OF CUDAHY/CITY OF ST. FRANCIS
MILWAUKEE COUNTY

SIGNAL NO. S40-1231

REGION CONTACT: P. VIRK
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 4 OF 6

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 107	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\IC\FOIC_1300-03-02_16.DWG
LAYOUT NAME - FOIC_pg04

PLOT DATE : 8/26/2020 7:52 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

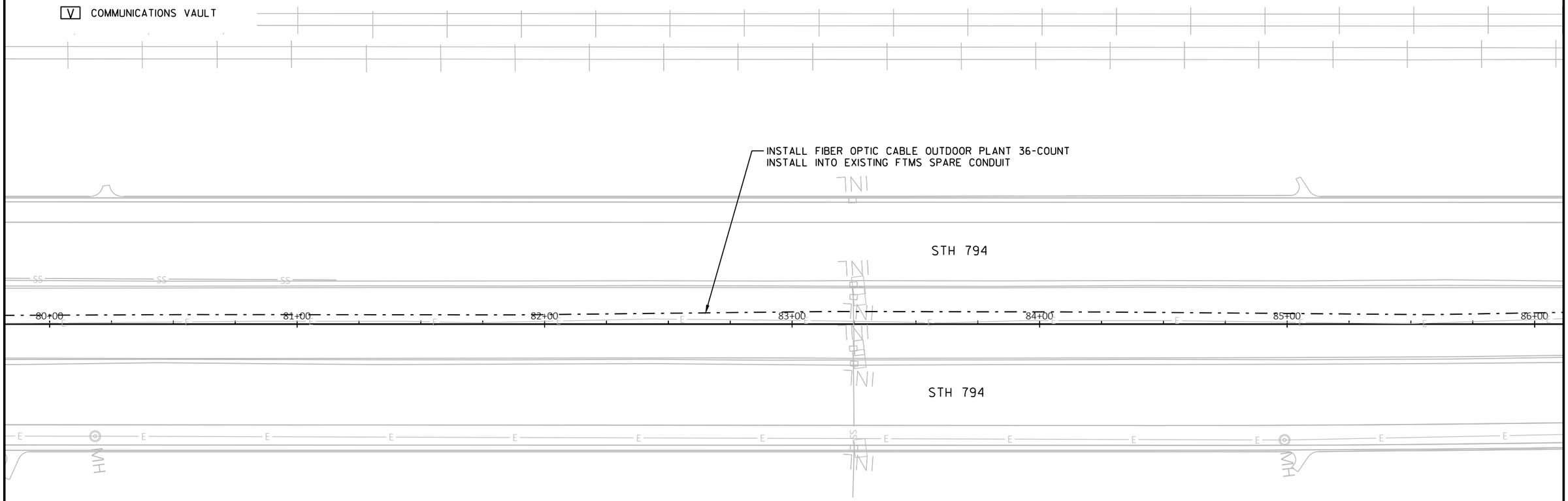
WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- CONDUIT HDPE 4-DUCT 1 ¼", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- COMMUNICATIONS VAULT

N



TRAFFIC SIGNAL INTERCONNECT
STH 794
CITY OF CUDAHY/CITY OF ST. FRANCIS
MILWAUKEE COUNTY

SIGNAL NO. S40-1231

REGION CONTACT: P. VIRK
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 108	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\IC\FOIC_1300-03-02_16.DWG
LAYOUT NAME - FOIC_pg05

PLOT DATE : 8/26/2020 7:53 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- CONDUIT HDPE 4-DUCT 1 ¼", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- COMMUNICATIONS VAULT

INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 36-COUNT
INSTALL INTO EXISTING FTMS SPARE CONDUIT

SPLICE INTO EXISTING WISDOT
FIBER OPTIC CABLE
FIBER OPTIC SPLICE (4)
FIBER OPTIC SPLICE ENCLOSURE

LAYTON AVE

STH 794

STH 794

FTMS
EXCV9106

FTMS
EXCV9107

FTMS
EXMBP9124

FTMS
EXCAB9180

86+00 87+00 88+00 89+00 90+00 91+00 92+00

N

TRAFFIC SIGNAL INTERCONNECT
STH 794
CITY OF CUDAHY/CITY OF ST. FRANCIS
MILWAUKEE COUNTY

SIGNAL NO. S40-1231

REGION CONTACT: P. VIRK
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 6 OF 6

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 109	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\IC\FOIC_1300-03-02_16.DWG
LAYOUT NAME - FOIC_pg06

PLOT DATE : 8/26/2020 7:53 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- COMMUNICATIONS VAULT

STH 794

196+00 197+00 198+00 199+00 200+00 201+00

STH 794

INSTALL FIBER OPTIC CABLE PIGTAIL 8-COUNT
INSTALL NO. 12 AWG TRAFFIC SIGNAL WIRE

FTMS PB198

CB1 S40-1216

INSTALL FIBER OPTIC CABLE PIGTAIL 8-COUNT
INSTALL NO. 12 AWG TRAFFIC SIGNAL WIRE
INSTALL INTO EXISTING FTMS SPARE CONDUIT

FTMS MB198

SPLICE INTO EXISTING WISDOT FIBER OPTIC CABLE
FIBER OPTIC SPLICE (4)
FIBER OPTIC SPLICE ENCLOSURE

UNION PACIFIC RAILROAD

ELLEN ST

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING THE INTERCONNECT CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. LEAVE 100-FEET OF FIBER OPTIC INTERCONNECT PIGTAIL COILED IN EACH COMMUNICATIONS VAULT AND 30-FEET IN EACH PULL BOX.
4. THE ENTIRE MAINLINE FIBER OPTIC CABLE SHALL NOT BE CUT AND/OR SPLICED IN THE VAULTS NEAREST THE TRAFFIC SIGNAL CABINET WHILE MAKING THE PIGTAIL CONNECTION. ONLY THE REQUIRED BUFFER TUBE SHALL BE CUT AND SPLICED WITH THE PIGTAIL CONNECTION.
5. 12 AWG PULL WIRE TO BE INSTALLED AS FIBER OPTIC TRACER WIRE IN INTERCONNECT CONDUIT.
6. PROPOSED STORM SEWER, LIGHTING, FTMS, DETECTABLE WARNING FIELDS, AND TRAFFIC SIGNALS ARE SHOWN GRAYSHADED FOR PLAN CLARITY.

TRAFFIC SIGNAL INTERCONNECT
STH 794
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1216

REGION CONTACT: P. VIRK
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 110	E

FILE NAME : C:\CIVIL 3D PROJECTS\CAD\13000302\SIG\IC\FOIC_1300-03-02_16.DWG
LAYOUT NAME - FOIC_pg08

PLOT DATE : 8/26/2020 7:54 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

	PROPOSED	EXISTING
FTMS CONVENTIONAL SYMBOLS		
POLE MOUNTED CABINET		⊠
METER BREAKER PEDESTAL		⊠
24X36-INCH CSCP PULL BOX		◑
FTMS (ITS) CONDUIT	– –	– –
BREAKER DISCONNECT BOX		⊞
YPE 1 CONCRETE MANHOLE		Ⓜ

FTMS STANDARD ABBREVIATIONS

CB	CONTROLLER CABINET
CCTV	CLOSED CIRCUIT TELEVISION SITE
MH	MANHOLE
PB	PULL BOX
EX	EXISTING
FOC	FIBER OPTIC CABLE
F.O.	FIBER OPTIC
S-F	STATE-FURNISHED

FTMS GENERAL NOTES

1. THESE PLANS AND THE ASSOCIATED SPECIAL PROVISIONS REFLECT CONDITIONS KNOWN DURING THE DEVELOPMENT OF THE PLANS AND TECHNICAL SPECIAL PROVISIONS. ALL SCALES, DIMENSIONS AND LOCATIONS SHOWN IN THESE PLANS ARE APPROXIMATE. ACTUAL PHYSICAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR THE APPLICATION OF WORK SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE APPLICATION OF ALL WORK SHOWN IN THE PLANS TO THE ACTUAL PHYSICAL FIELD CONDITIONS TO PROVIDE A COMPLETE AND ACCEPTED PROJECT. IN THE EVENT THAT ACTUAL PHYSICAL FIELD CONDITIONS AFFECT OR PREVENT THE APPLICATION OR PROGRESSION OF ANY WORK SHOWN IN THE PLANS OR TECHNICAL SPECIAL PROVISIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND PRIOR TO ANY FURTHER WORK ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY LOCATION CHANGES OTHER THAN MINOR ADJUSTMENTS.
2. BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.
3. BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUITS, PULLBOXES, POLES, CABINET FOUNDATIONS, OR OTHER EQUIPMENT IS TO BE INSTALLED. THE CONTRACTOR IS FULLY RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.
4. NO TREES (AND/OR SHRUBS) SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
5. AREAS WITHIN THE RIGHT-OF-WAY DISTURBED SPECIFICALLY FOR FTMS CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITION WITH TOPSOIL, FERTILIZER, SEED, AND EROSION MAT, AND SHALL BE INCLUDED IN THE COST OF INSTALLING FTMS ITEMS. RESTORATION FOR AREAS DISTURBED FOR OTHER CONSTRUCTION OPERATIONS BUT ALSO CONTAINING FTMS CONSTRUCTION SHALL BE DONE ACCORDING TO REQUIREMENTS AND PAYMENT PROVISIONS FOR THE OTHER CONSTRUCTION OPERATIONS.
6. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
7. DUE TO RAMP, LANE, SHOULDER CLOSURE RESTRICTIONS, AND WORK UNDER OTHER CONTRACTS, SOME WORK MAY BE REQUIRED TO BE PERFORMED AT NIGHT.
8. THE CONTRACTOR IS FULLY RESPONSIBLE FOR COORDINATING RAMP, LANE, SHOULDER, AND ROADWAY CLOSURES WITH OTHER CONTRACTS IN THE AREA.
9. THE CONTRACTOR SHALL CONTACT THE WISDOT STATEWIDE TRAFFIC OPERATIONS CENTER AT (414) 227-2166 FIVE (5) WORKING DAYS PRIOR TO ENTERING ANY EXISTING WISDOT FTMS OR ITS CABINET.
10. ALL LOOP DETECTORS ARE STATIONED TO CENTER OF LEADING EDGE AS APPROACHED BY NORMAL VEHICLE PATH.
11. HAND DIG TRENCHES CROSSING EXISTING CONDUIT CONTAINING FIBER OPTIC CABLE.
12. VISUALLY VERIFY DEPTHS OF EXISTING CONDUITS CONTAINING FIBER OPTIC CABLE PRIOR TO CROSSING BY DIRECTIONAL BORE OR SPECIAL METHOD.

2

2

EXMH01
STAGE 1
DISCONNECT EXISTING 6-COUNT F.O. DROP
SPLICE BY SPLICING DROPPED STRANDS
IN 72-COUNT CABLE THROUGH IN EXISTING
SPLICE ENCLOSURE
(2) F.O. SPLICES
LATER STAGE
SPLICE NEW 6-COUNT F.O. DROP CABLE TO
EXISTING 72-COUNT F.O. IN EXISTING F.O.
SPLICE ENCLOSURE
(4) F.O. SPLICES

REMOVE EXISTING 6-COUNT FOC

EXPB01

REMOVE EXISTING 6-COUNT FOC

INSTALL IN EXISTING CONDUIT
(1) 6-COUNT FOC (S-F) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

REMOVE EXISTING 6-COUNT FOC

EXPB02

EXMH03

EXPB03

STH 794

STH 794

REMOVE EXISTING 6-COUNT FOC

50'

INSTALL IN EXISTING CONDUIT
(1) 6-COUNT FOC (S-F) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

197+00

198+00

199+00

200+00

201+00

198'LA'

199'LA'

200'LA'

BP: 10+08.95

15'

EXPB04

REMOVE EXISTING 6-COUNT FOC

898'NP'

REMOVE EXISTING 6-COUNT FOC

900'NP'

EXMH04

REMOVE EXISTING 6-COUNT FOC

STH 794

STH 794

REMOVE EXISTING 6-COUNT FOC

EXPB07

EXPB05

55'

INSTALL IN EXISTING CONDUIT
(1) 6-COUNT FOC (S-F) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

EXMH02
(1) INSTALL PROPOSED CONDUIT INTO
EXISTING MANHOLE

EXPB06

(2) 2-INCH NONMETALLIC CONDUITS
(1) WITH (1) 6-COUNT FOC (S-F) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

REMOVE EXISTING 6-COUNT FOC

EXPB08
(1) INSTALL PROPOSED CONDUIT INTO
EXISTING PULL BOX

EXCABOK01

26'E'

PC: 11+23.15

STAGE 1
REMOVE EXISTING 6-COUNT FOC
LATER STAGE
(1) INSTALL 6-COUNT FOC (S-F) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE
IN EXISTING CONDUIT

ELLEN ST.

ELLEN ST

EX-CCTV-40-0144
STAGE 1
DISCONNECT EXISTING 6-COUNT FOC FROM
EXISTING F.O. TERMINATION PANEL
LATER STAGE
(10) F.O. TERMINATIONS IN EXISTING F.O.
TERMINATION PANEL
(6 FOR 6-COUNT FTMS DROP CABLE AND
4 FOR TRAFFIC SIGNAL CONNECTION CABLE)

PT: 12+49.17

E. OKLAHOMA AVE.

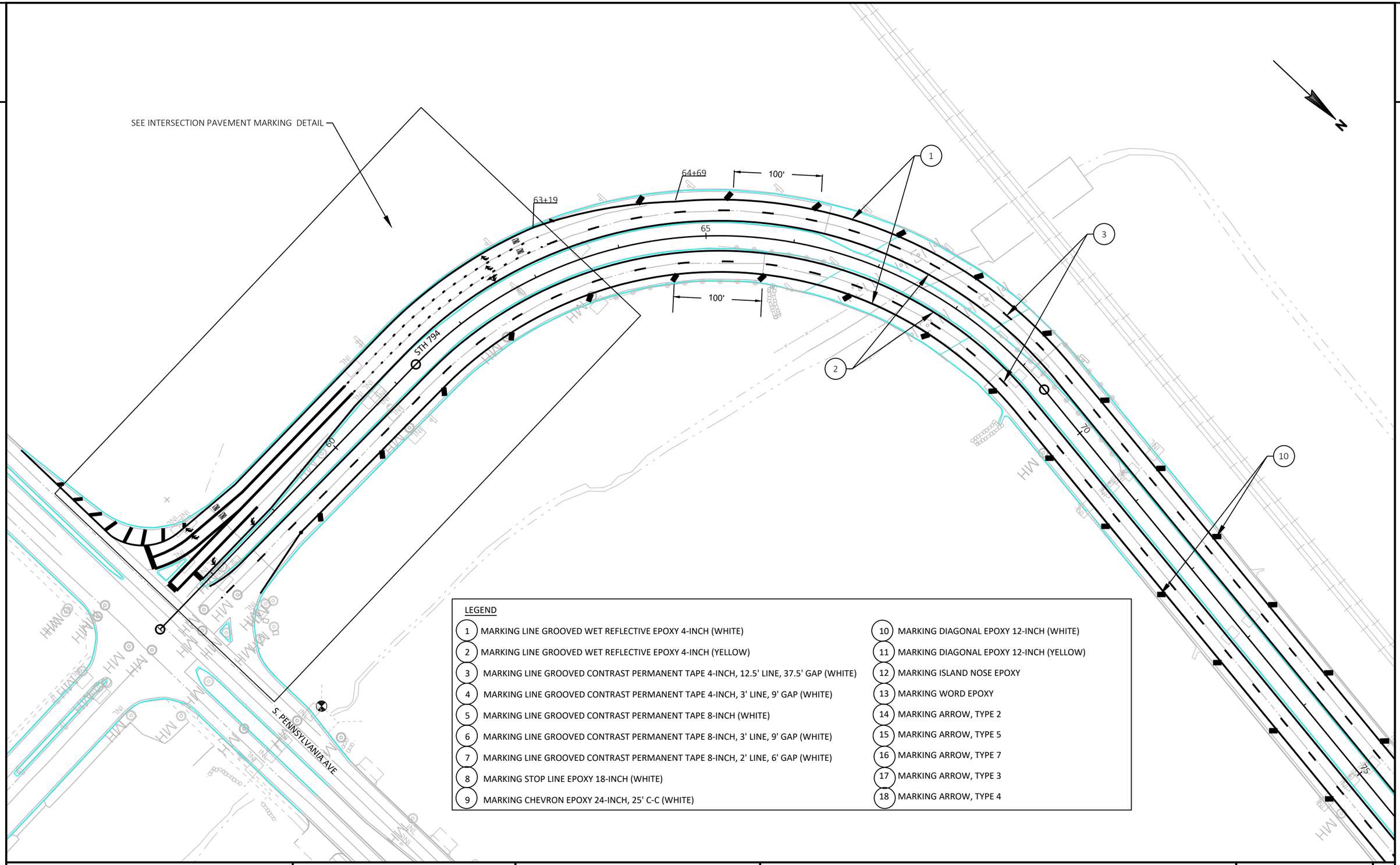
E. OKLAHOMA AVE

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	FTMS DESIGN	SHEET 112	E

FILE NAME : T:\68581\base\milwaukee\13000372_794_interconnect.dgn PLOT DATE : 8/31/2020 PLOT BY : PKutz PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2



LEGEND

1	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8	MARKING STOP LINE EPOXY 18-INCH (WHITE)
9	MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10	MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12	MARKING ISLAND NOSE EPOXY
13	MARKING WORD EPOXY
14	MARKING ARROW, TYPE 2
15	MARKING ARROW, TYPE 5
16	MARKING ARROW, TYPE 7
17	MARKING ARROW, TYPE 3
18	MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 113	E

2

END PAVEMENT MARKING AT STOP BAR LOCATIONS

N

25'

57+64, 64.0' LT

58+49, -57.1' LT

60+57, -41.0' LT

60+58, -29.0' LT

63+19, 41.0' LT

63+19, 29.0' LT

57+58, 29.0' LT

57+87, -16.4' LT

57+87, 6.5' RT

57+88, 25.3' RT

58+21, 53.5' RT

59+03, 38.5' RT

12'

8'

100'

60

62

STH 794

S. PENNSYLVANIA AVE.

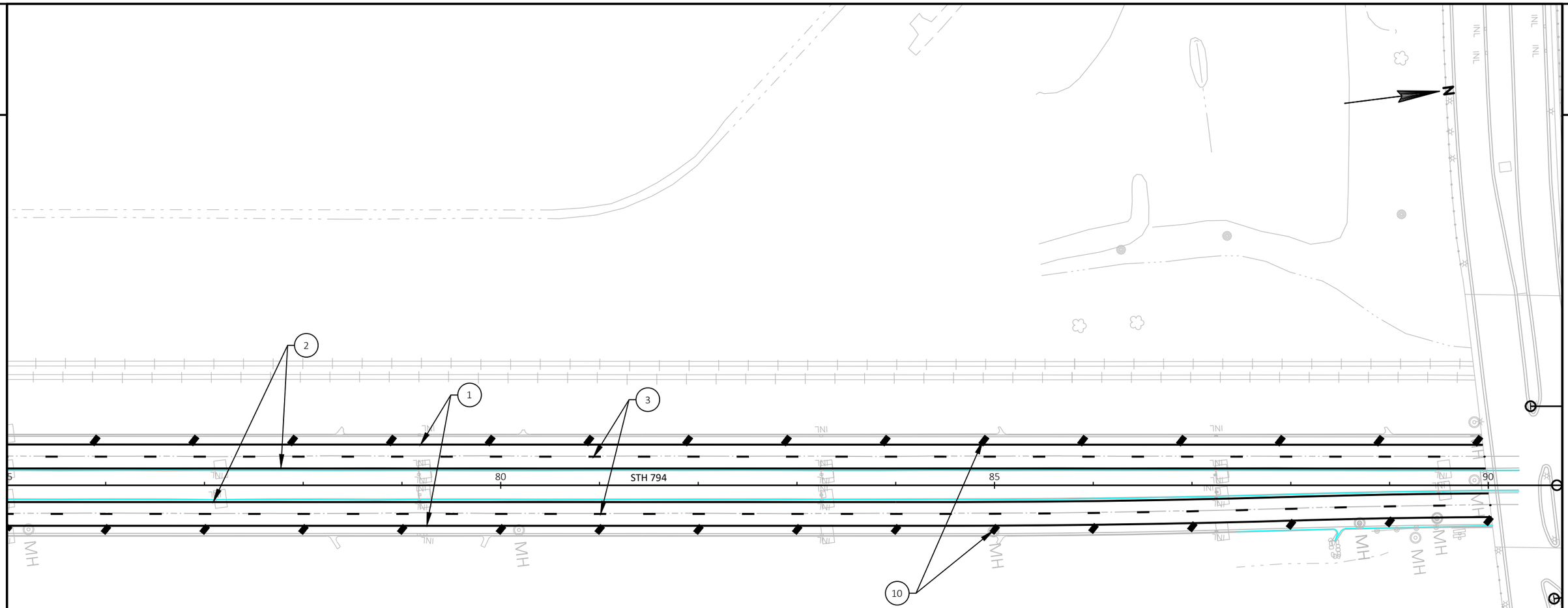
END PAVEMENT MARKING AT RADIUS PT

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)
9. MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING ISLAND NOSE EPOXY
13. MARKING WORD EPOXY
14. MARKING ARROW, TYPE 2
15. MARKING ARROW, TYPE 5
16. MARKING ARROW, TYPE 7
17. MARKING ARROW, TYPE 3
18. MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 114	E

2



LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)
9. MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING ISLAND NOSE EPOXY
13. MARKING WORD EPOXY
14. MARKING ARROW, TYPE 2
15. MARKING ARROW, TYPE 5
16. MARKING ARROW, TYPE 7
17. MARKING ARROW, TYPE 3
18. MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 115	E

2

2

SEE INTERSECTION PAVEMENT MARKING DETAIL

END PAVEMENT MARKING AT ASPHALT LIMITS

STH 794

E. LAYTON AVE

WHITNALL AVE.

UNION PACIFIC RAILROAD

BP: 35+77.81

PT: 99+76.75

194+90

197+00

99+66

99+19

496+15

494+30

1 2 3 5 6 9 10 14 16 18

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)
9. MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING ISLAND NOSE EPOXY
13. MARKING WORD EPOXY
14. MARKING ARROW, TYPE 2
15. MARKING ARROW, TYPE 5
16. MARKING ARROW, TYPE 7
17. MARKING ARROW, TYPE 3
18. MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 116	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 48

PLOT DATE : 10/8/2020 10:54 AM PLOT BY : JACKSON, MARCUS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

END PAVEMENT MARKING AT STOP BAR LOCATIONS

191+10, -22.0' LT

191+08, 22.9' RT

193+42, -0.8' LT

193+42, 11.2' RT

194+90, -0.8' LT

100'

100'

STH 794

E. LAYTON AVE.

END PAVEMENT MARKING AT ASPHALT LIMITS

192 194 196 92 94 96 492 494 496

12' 12' 12' 16'

BP: 95+77.81

ON PACIFIC RAILROAD

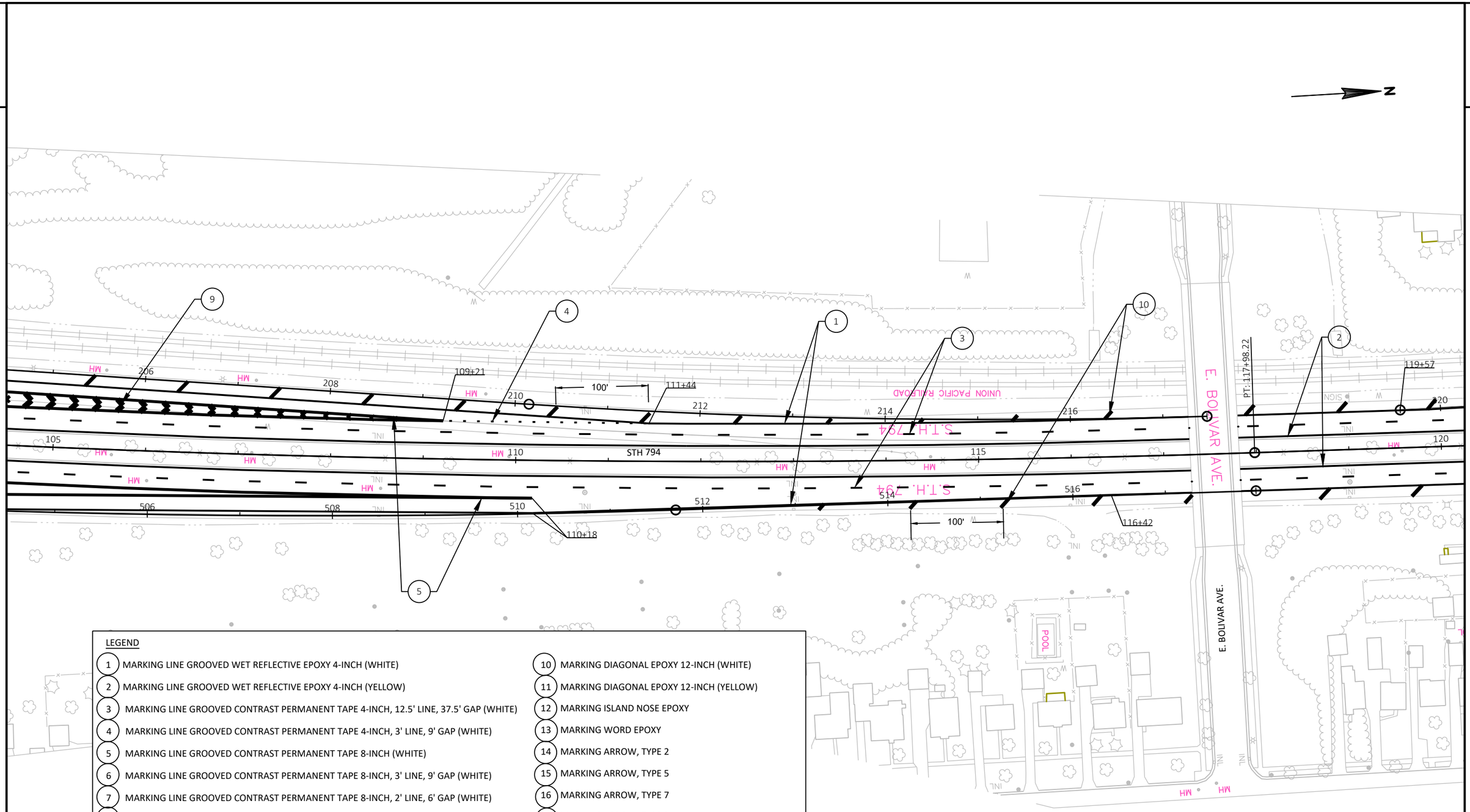
LEGEND

1	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8	MARKING STOP LINE EPOXY 18-INCH (WHITE)
9	MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10	MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12	MARKING ISLAND NOSE EPOXY
13	MARKING WORD EPOXY
14	MARKING ARROW, TYPE 2
15	MARKING ARROW, TYPE 5
16	MARKING ARROW, TYPE 7
17	MARKING ARROW, TYPE 3
18	MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 117 E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - 4
PLOT DATE : 10/16/2020 11:32 AM PLOT BY : JACKSON, MARCUS P PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

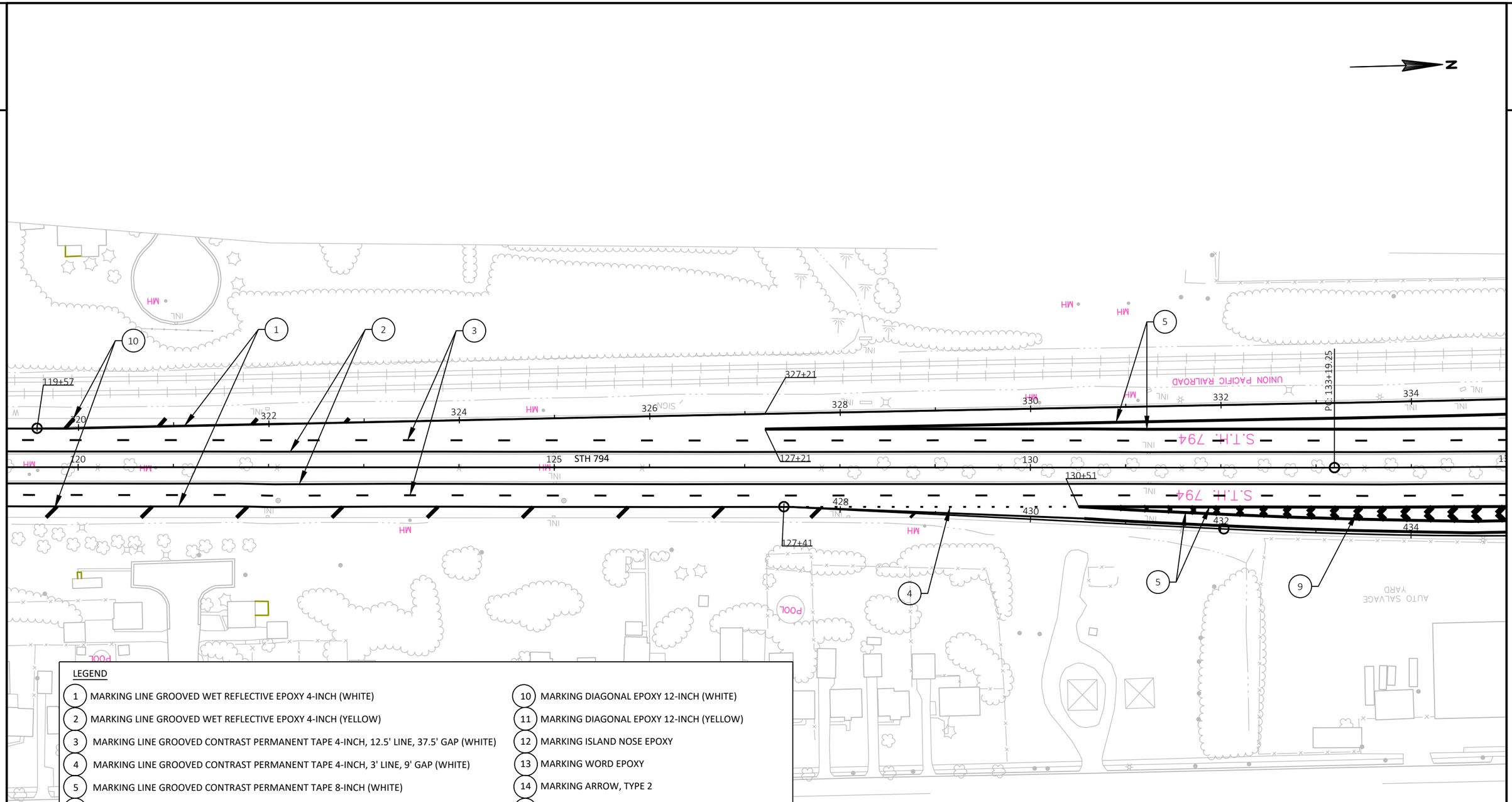


LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)
9. MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING ISLAND NOSE EPOXY
13. MARKING WORD EPOXY
14. MARKING ARROW, TYPE 2
15. MARKING ARROW, TYPE 5
16. MARKING ARROW, TYPE 7
17. MARKING ARROW, TYPE 3
18. MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 118	E

2



LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)
9. MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING ISLAND NOSE EPOXY
13. MARKING WORD EPOXY
14. MARKING ARROW, TYPE 2
15. MARKING ARROW, TYPE 5
16. MARKING ARROW, TYPE 7
17. MARKING ARROW, TYPE 3
18. MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 119	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 50
PLOT DATE : 10/8/2020 10:55 AM
PLOT BY : JACKSON, MARCUS P
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

SEE INTERSECTION PAVEMENT MARKING DETAIL

STH 794

E. HOWARD AVE.

E. HOWARD AVE.

E. HOWARD AVE.

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)
9. MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING ISLAND NOSE EPOXY
13. MARKING WORD EPOXY
14. MARKING ARROW, TYPE 2
15. MARKING ARROW, TYPE 5
16. MARKING ARROW, TYPE 7
17. MARKING ARROW, TYPE 3
18. MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 120	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 51

PLOT DATE : 10/8/2020 10:56 AM PLOT BY : JACKSON, MARCUS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

END PAVEMENT MARKING AT STOP BAR LOCATIONS

N

246+64, -8.0' LT

246+63, 4.0' RT

245+11, 15.8' RT

PC 144+19.98

100'

STH 794

100'

544+50, 15.8' LT

544+61, 22.6' RT

E. HOWARD AVE.

48

50

544

546

548

550

246

248

250

146

148

150

12'

12'

12'

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)
9. MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING ISLAND NOSE EPOXY
13. MARKING WORD EPOXY
14. MARKING ARROW, TYPE 2
15. MARKING ARROW, TYPE 5
16. MARKING ARROW, TYPE 7
17. MARKING ARROW, TYPE 3
18. MARKING ARROW, TYPE 4

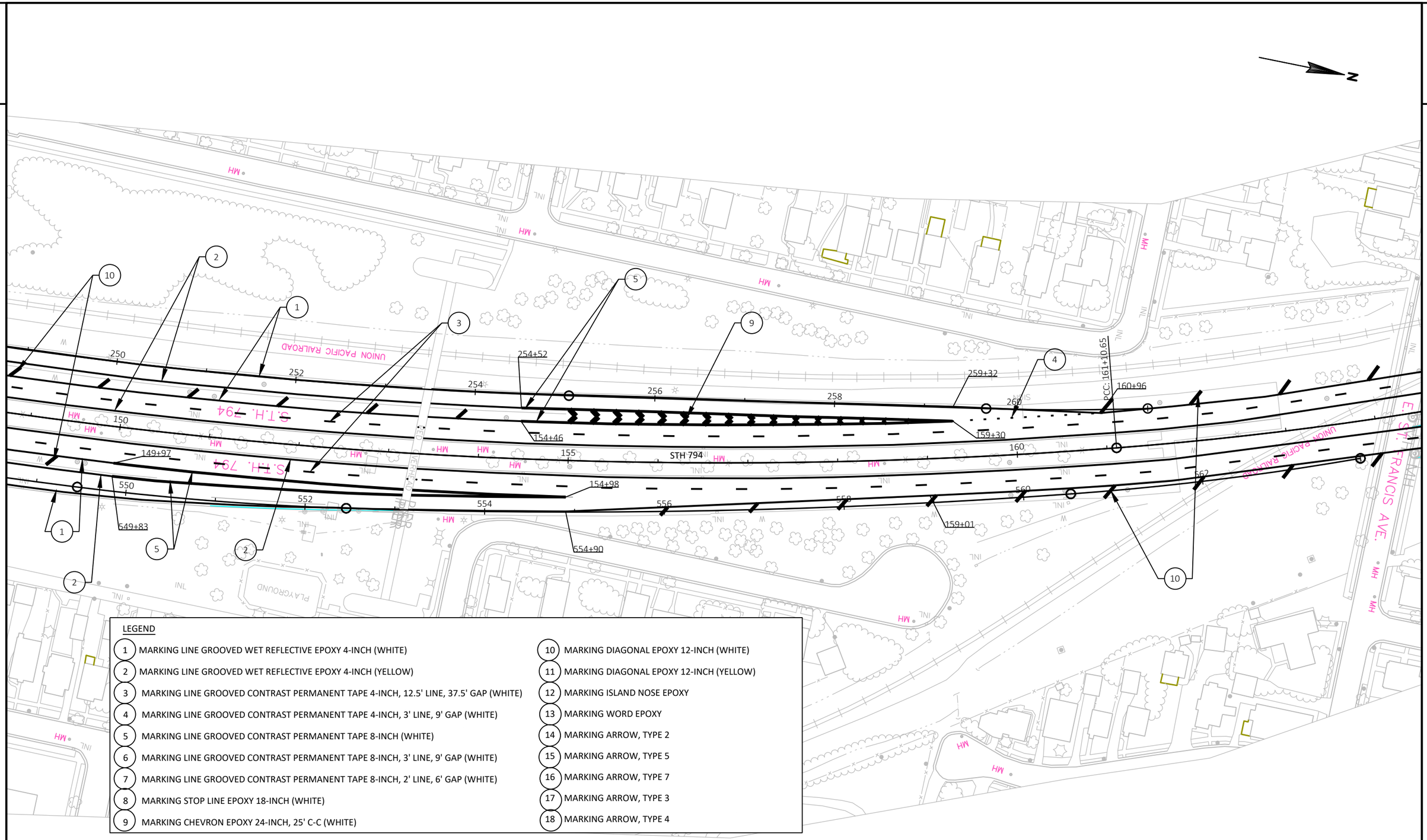
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 121	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - 5

PLOT DATE : 10/16/2020 11:33 AM PLOT BY : JACKSON, MARCUS P PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

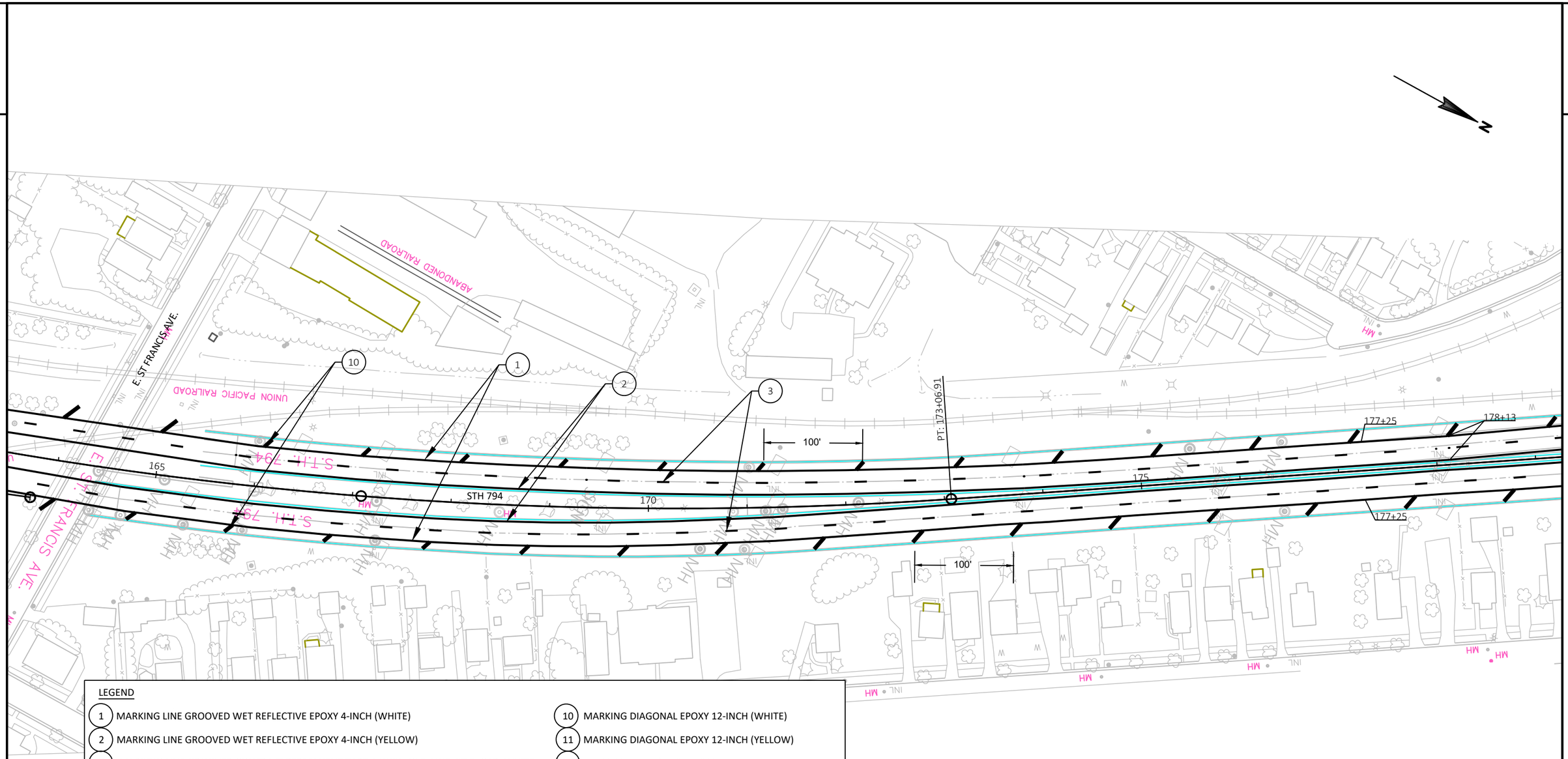
1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)
9. MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING ISLAND NOSE EPOXY
13. MARKING WORD EPOXY
14. MARKING ARROW, TYPE 2
15. MARKING ARROW, TYPE 5
16. MARKING ARROW, TYPE 7
17. MARKING ARROW, TYPE 3
18. MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 122	E

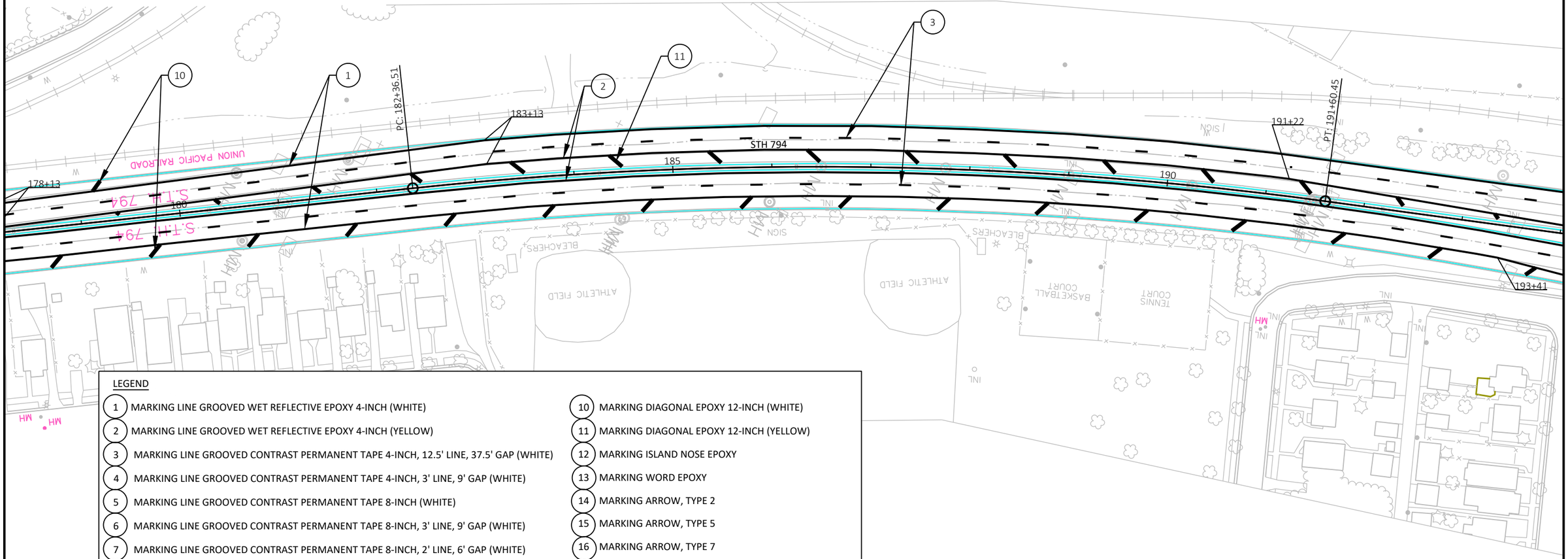
FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 52
PLOT DATE : 10/8/2020 10:56 AM
PLOT BY : JACKSON, MARCUS P
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2


N
ABANDONED RAILROAD
E. ST FRANCIS AVE.
UNION PACIFIC RAILROAD
S.T.H. 794
S.T.H. 794
STH 794
165
170
175
100'
100'
PT: 173+06.91
177+25
177+25
178+13
MH
MH
MH

2



LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)
9. MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING ISLAND NOSE EPOXY
13. MARKING WORD EPOXY
14. MARKING ARROW, TYPE 2
15. MARKING ARROW, TYPE 5
16. MARKING ARROW, TYPE 7
17. MARKING ARROW, TYPE 3
18. MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 124	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 54

PLOT DATE : 10/8/2020 10:57 AM PLOT BY : JACKSON, MARCUS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

SEE INTERSECTION PAVEMENT MARKING DETAIL

E. OKLAHOMA AVE

UNION PACIFIC RAILROAD

STH 794

194+86

193+41

194+94

PC: 205+37.79

PT: 208+34.67

206+49

S. ELLEN ST

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)
9. MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING ISLAND NOSE EPOXY
13. MARKING WORD EPOXY
14. MARKING ARROW, TYPE 2
15. MARKING ARROW, TYPE 5
16. MARKING ARROW, TYPE 7
17. MARKING ARROW, TYPE 3
18. MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 125	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 55

PLOT DATE : 10/8/2020 10:57 AM PLOT BY : JACKSON, MARCUS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)
9. MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING ISLAND NOSE EPOXY
13. MARKING WORD EPOXY
14. MARKING ARROW, TYPE 2
15. MARKING ARROW, TYPE 5
16. MARKING ARROW, TYPE 7
17. MARKING ARROW, TYPE 3
18. MARKING ARROW, TYPE 4

UNION PACIFIC RAILROAD

STH 794

194+86, -17.3' LT
197+11, -17.1' LT
198+40, -17.1' LT
199+14, -4.6' LT
198+73, 2.7' RT
198+36, 27.3' RT
198+01, 51.0' RT
194+94, 39.6' RT
194+94, 51.6' RT
199+14, 27.9' RT
198+79, 64.0' RT
199+80, 51.9' RT
198+56, 57.0' RT
198+90, 113.5' RT

END PAVEMENT MARKING AT ASPHALT LIMITS

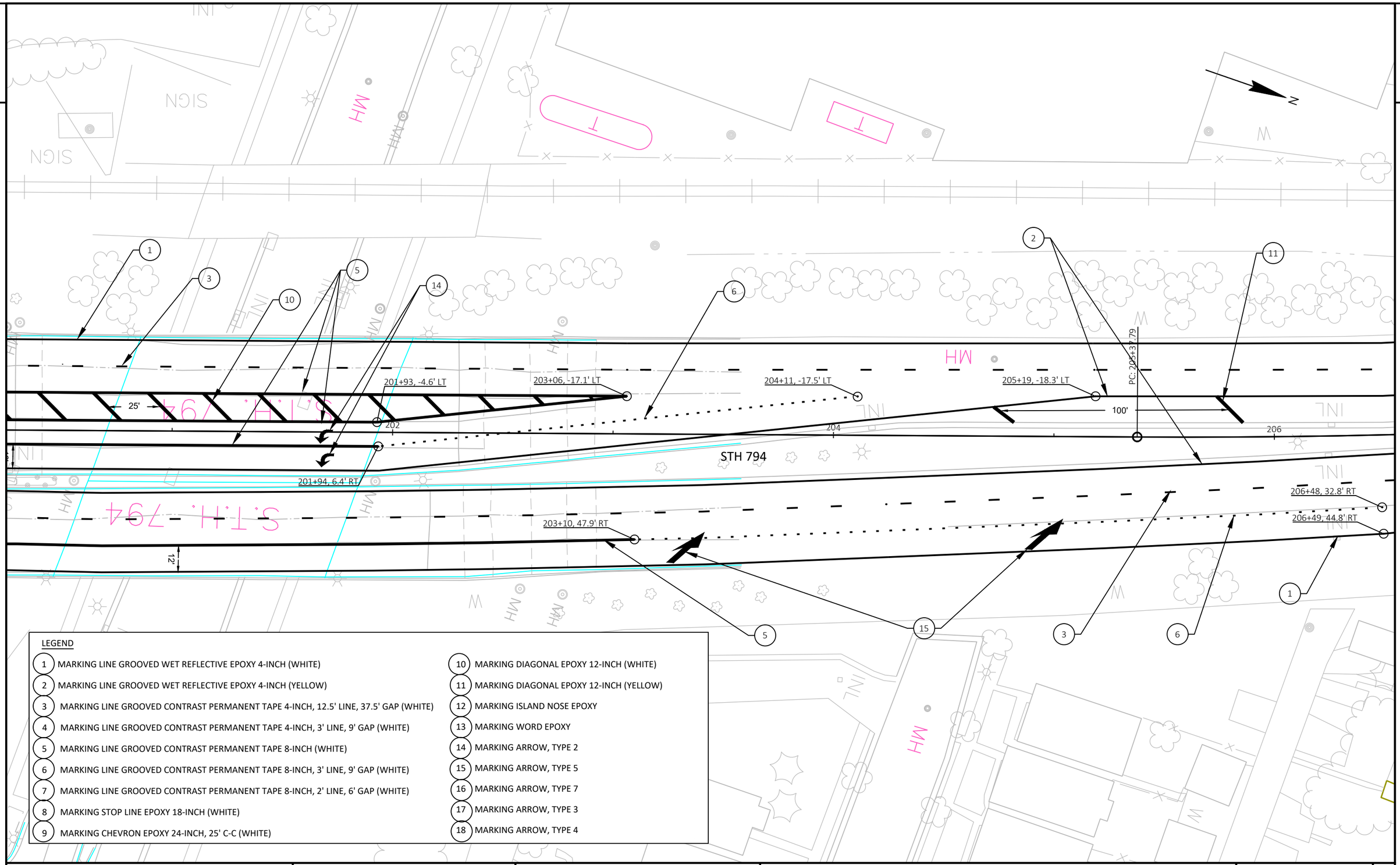
S. ELLEN ST.

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 126	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - 6

PLOT DATE : 10/16/2020 11:33 AM PLOT BY : JACKSON, MARCUS P PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

1	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8	MARKING STOP LINE EPOXY 18-INCH (WHITE)
9	MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10	MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12	MARKING ISLAND NOSE EPOXY
13	MARKING WORD EPOXY
14	MARKING ARROW, TYPE 2
15	MARKING ARROW, TYPE 5
16	MARKING ARROW, TYPE 7
17	MARKING ARROW, TYPE 3
18	MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 127 E

2



LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)
9. MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING ISLAND NOSE EPOXY
13. MARKING WORD EPOXY
14. MARKING ARROW, TYPE 2
15. MARKING ARROW, TYPE 5
16. MARKING ARROW, TYPE 7
17. MARKING ARROW, TYPE 3
18. MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 128	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 56
PLOT DATE : 10/8/2020 10:58 AM
PLOT BY : JACKSON, MARCUS P
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

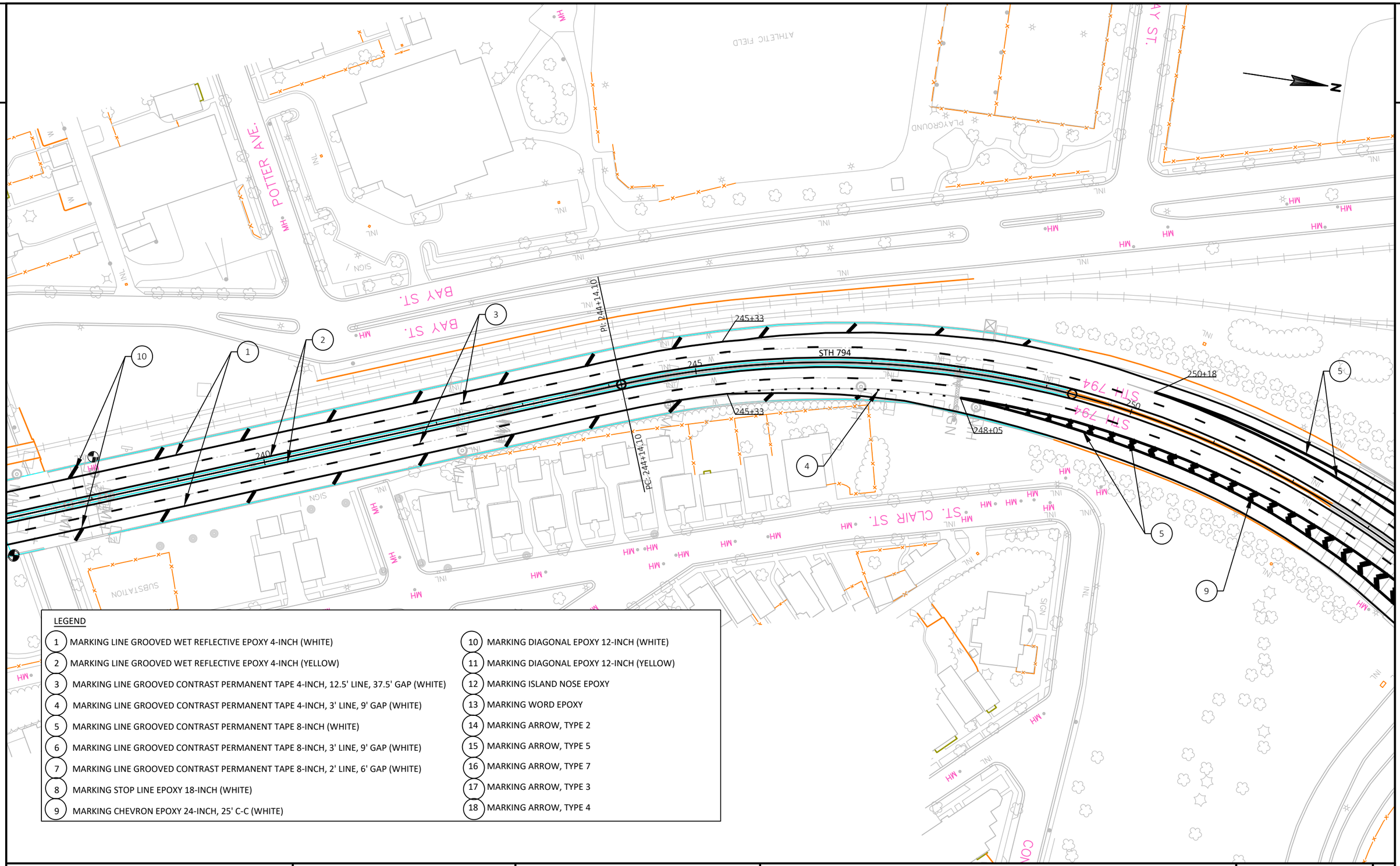


LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)
9. MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING ISLAND NOSE EPOXY
13. MARKING WORD EPOXY
14. MARKING ARROW, TYPE 2
15. MARKING ARROW, TYPE 5
16. MARKING ARROW, TYPE 7
17. MARKING ARROW, TYPE 3
18. MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 129	E

2



LEGEND

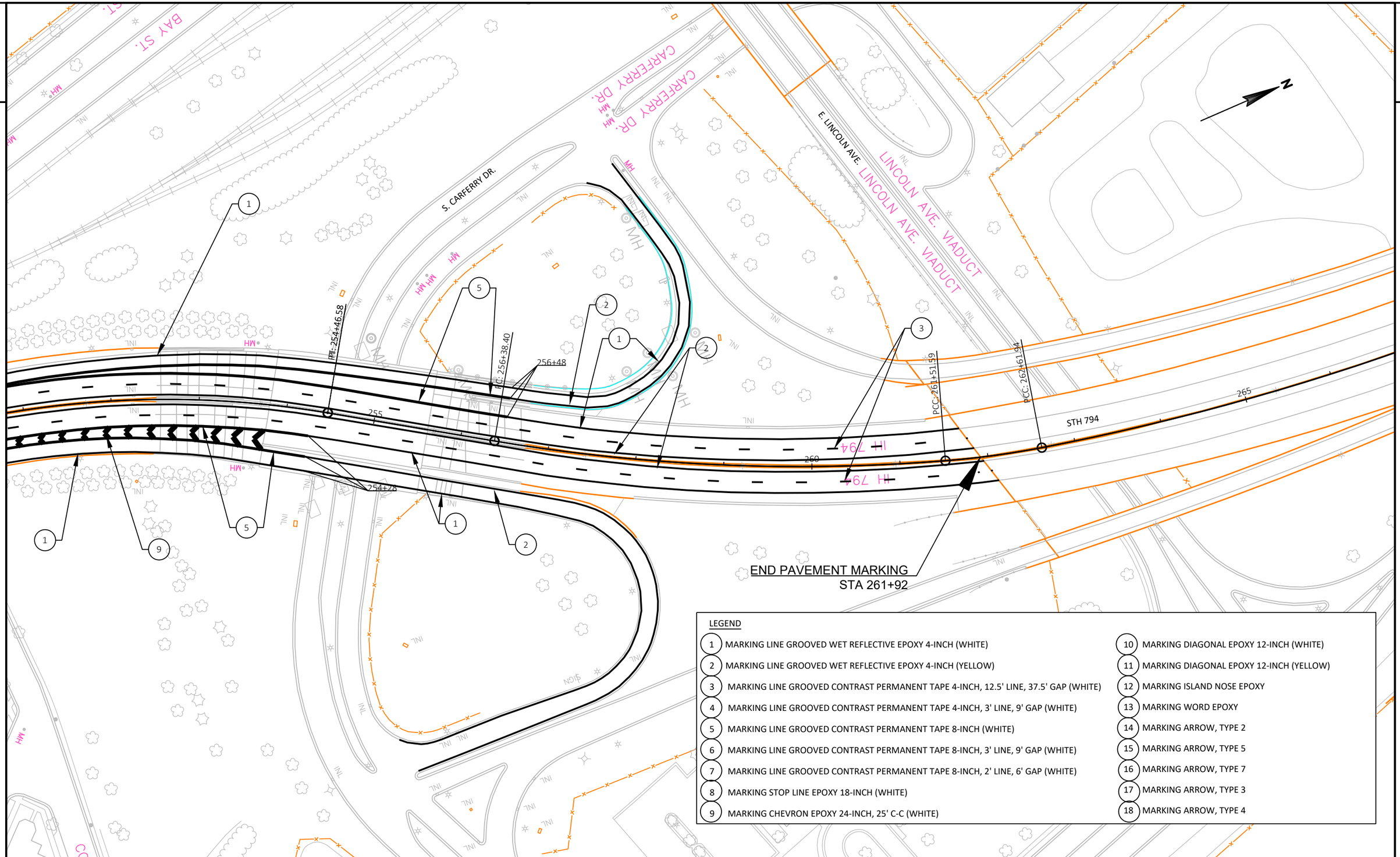
1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)
4. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)
5. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
6. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)
7. MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)
8. MARKING STOP LINE EPOXY 18-INCH (WHITE)
9. MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)
10. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
12. MARKING ISLAND NOSE EPOXY
13. MARKING WORD EPOXY
14. MARKING ARROW, TYPE 2
15. MARKING ARROW, TYPE 5
16. MARKING ARROW, TYPE 7
17. MARKING ARROW, TYPE 3
18. MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 130	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 58

PLOT DATE : 10/8/2020 10:59 AM PLOT BY : JACKSON, MARCUS P PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

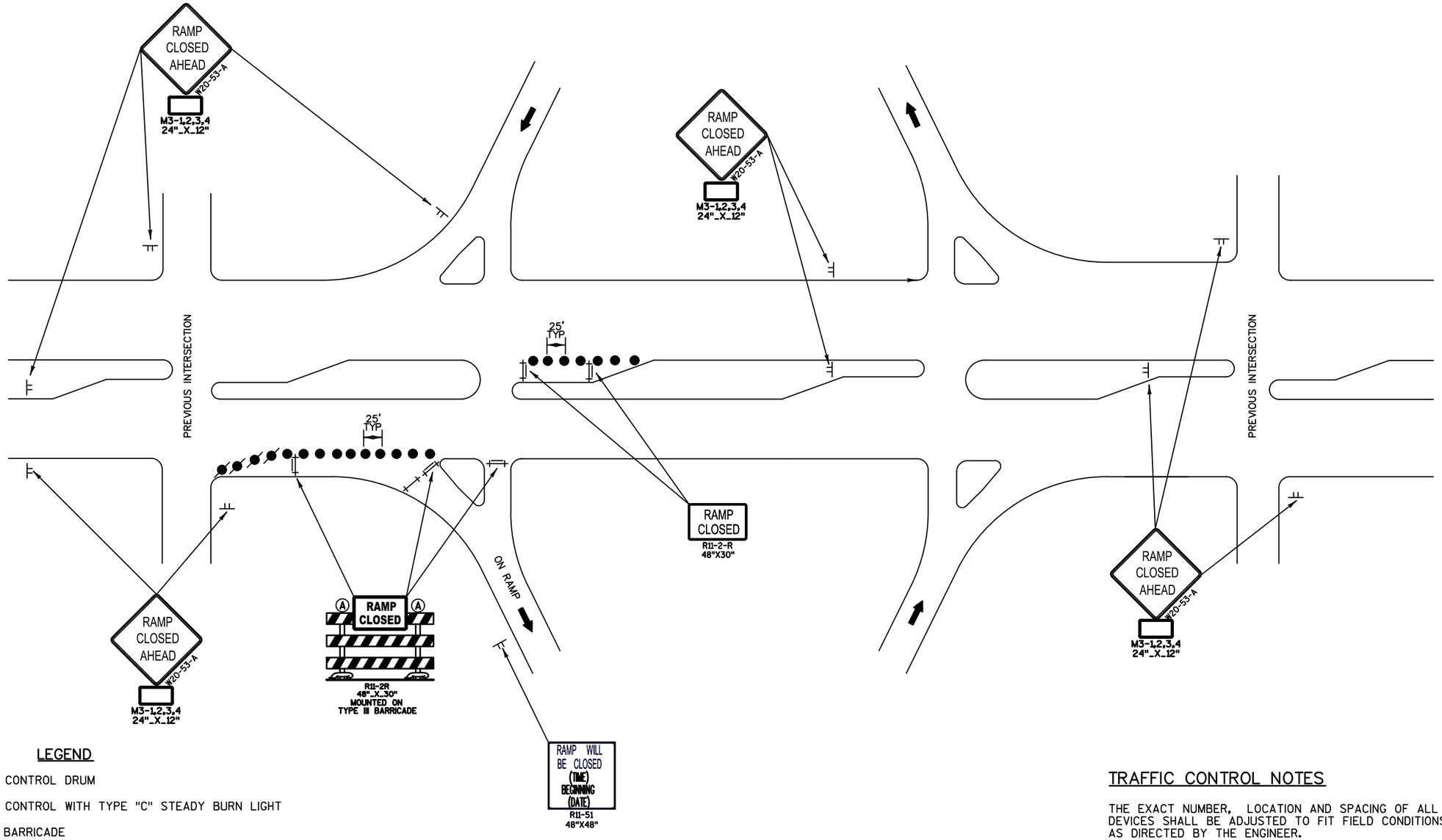


LEGEND

1	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)	10	MARKING DIAGONAL EPOXY 12-INCH (WHITE)
2	MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)	11	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
3	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 12.5' LINE, 37.5' GAP (WHITE)	12	MARKING ISLAND NOSE EPOXY
4	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, 3' LINE, 9' GAP (WHITE)	13	MARKING WORD EPOXY
5	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)	14	MARKING ARROW, TYPE 2
6	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 3' LINE, 9' GAP (WHITE)	15	MARKING ARROW, TYPE 5
7	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, 2' LINE, 6' GAP (WHITE)	16	MARKING ARROW, TYPE 7
8	MARKING STOP LINE EPOXY 18-INCH (WHITE)	17	MARKING ARROW, TYPE 3
9	MARKING CHEVRON EPOXY 24-INCH, 25' C-C (WHITE)	18	MARKING ARROW, TYPE 4

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 131	E

2



NORTH
M3-1
24"_X_12"

EAST
M3-2
24"_X_12"

SOUTH
M3-3
24"_X_12"

WEST
M3-4
24"_X_12"

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH 2 TYPE "A" WARNING LIGHT (FLASHING)
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE
SHORT TERM ONLY

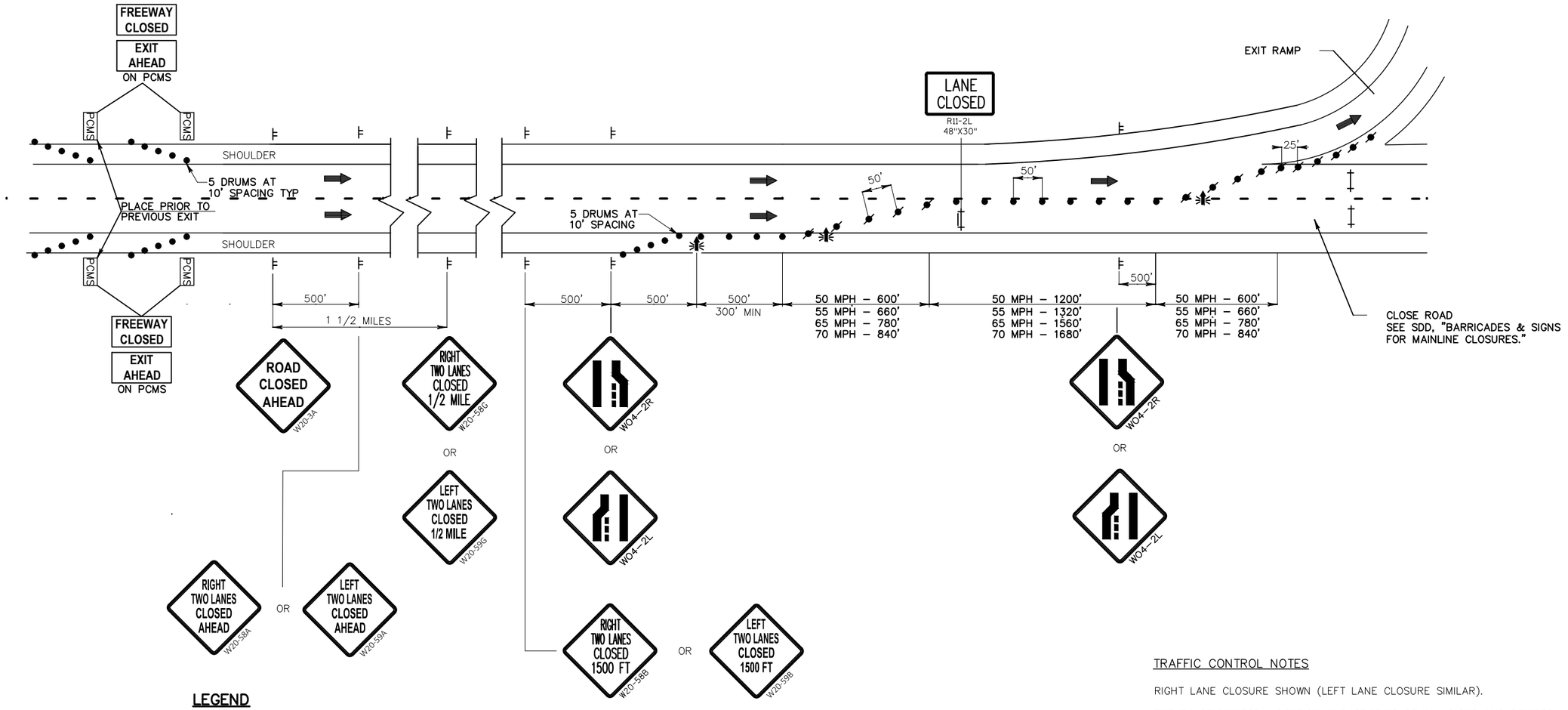
TRAFFIC CONTROL NOTES

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 ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

SHORT TERM DEFINED AS 7 DAYS/NIGHTS OR LESS. FOR NIGHT TIME OPERATIONS ALL DRUMS IN TAPERS SHALL HAVE WARNING LIGHT, TYPE C (STEADY BURN). MAY BE APPLIED TO ARTERIALS OR LOCAL ROADS.



LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO (2) TYPE "A" WARNING LIGHTS (FLASHING)
- TYPE III BARRICADE WITH SIGN WITH TWO (2) TYPE "A" WARNING LIGHTS (FLASHING)
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- PCMS TRAFFIC CONTROL SIGN PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

TWO LANE FULL FREEWAY CLOSURE

TRAFFIC CONTROL NOTES

RIGHT LANE CLOSURE SHOWN (LEFT LANE CLOSURE SIMILAR).

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

FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A WARNING LIGHT, TYPE C (STEADY BURN).

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

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

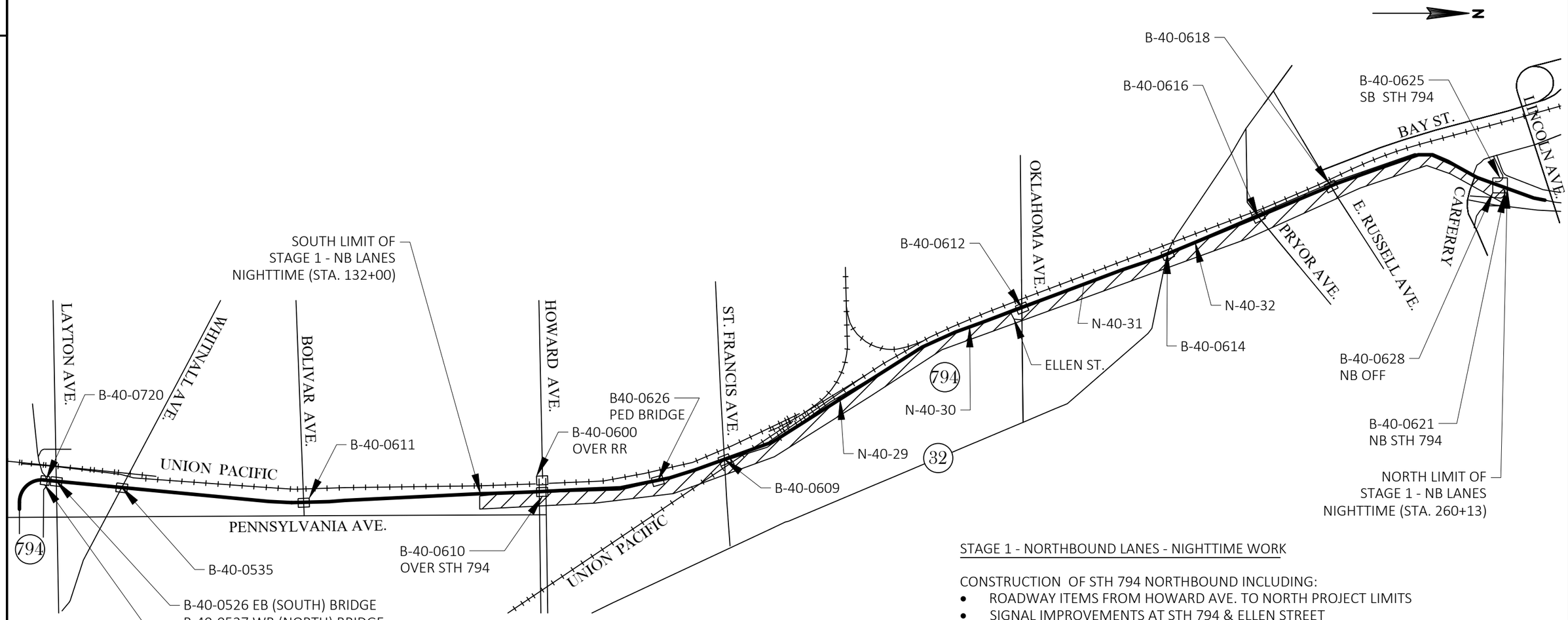
WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROL SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.

IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1000' ACROSS EACH CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

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' IN FRONT OF DRUMS, WITH LANE CLOSED SIGN.

REFER TO DETOUR ROUTES FOR TRAFFIC CLOSING SIGNS.

2



STAGE 1 - NORTHBOUND LANES - NIGHTTIME WORK

CONSTRUCTION OF STH 794 NORTHBOUND INCLUDING:

- ROADWAY ITEMS FROM HOWARD AVE. TO NORTH PROJECT LIMITS
- SIGNAL IMPROVEMENTS AT STH 794 & ELLEN STREET
- REPAIR NOISE WALLS

TRAFFIC

- CLOSE STH 794 NORTHBOUND FROM PENNSYLVANIA AVE. TO PORT OF MILWAUKEE/CARFERRY DR.
- CLOSE ACCESS TO STH 794 NORTHBOUND AT PENNSYLVANIA AVE, LAYTON AVE. HOWARD AVE., ELLEN STREET AND PORT OF MILWAUKEE/CARFERRY DR.

▨ - WORK ZONE

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL OVERVIEW - STAGE 1 - NORTHBOUND LANES - NIGHTTIME WORK	SHEET 134	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025301_TC.DWG
LAYOUT NAME - 01
PLOT DATE : 10/30/2020 9:58 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

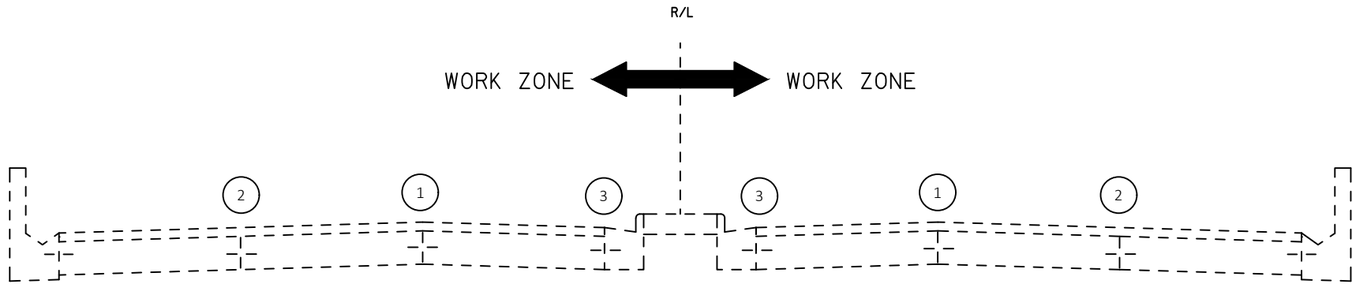
PAVEMENT MARKING LEGEND

1. TEMPORARY MARKING LINE PAINT 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
2. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
3. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)

PAVEMENT MARKING NOTES:

PLACE TEMPORARY MARKINGS PRIOR TO REOPENING THE ROADWAY AFTER NIGHTTIME CLOSURES. TEMPORARY MARKING REQUIRED FOR BOTH THE LOWER AND UPPER LAYERS OF ASPHALT.

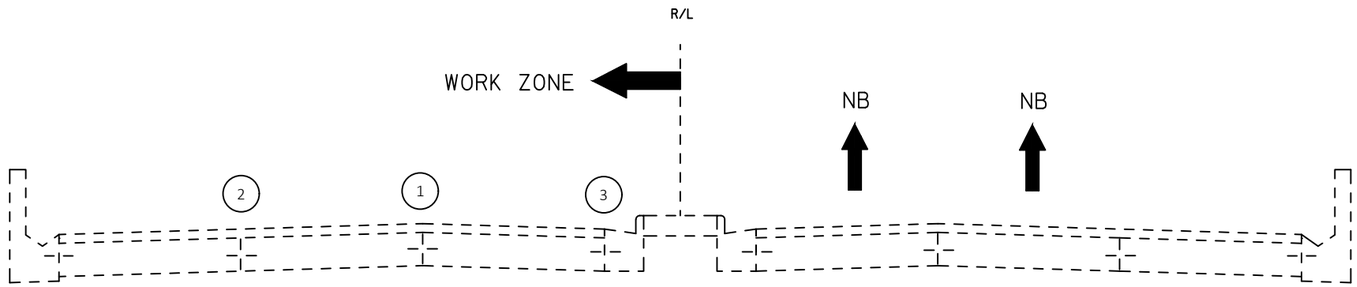
FULL DETOUR



STAGE 1 NIGHTTIME WORK TYPICAL SECTION

STH 794 - NB & SB DETOUR

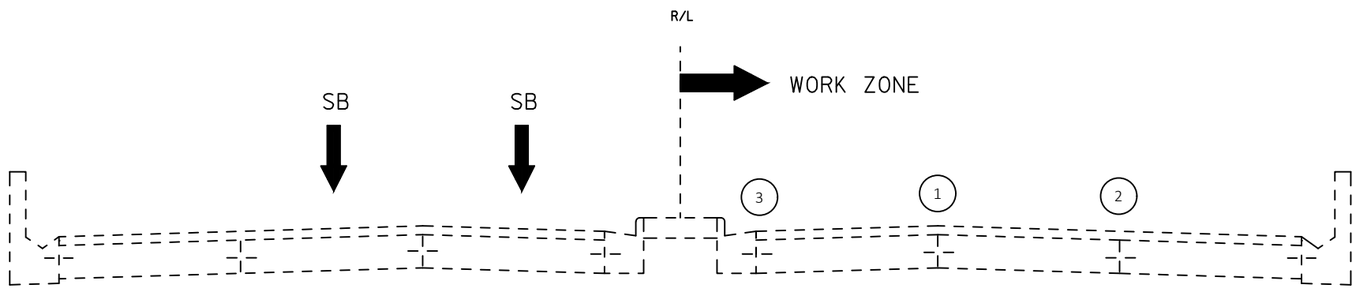
STA. 132+00 TO STA. 260+13



STAGE 1 NIGHTTIME WORK TYPICAL SECTION

STH 794 - SB DETOUR ONLY

STA. 132+00 TO STA. 260+13



STAGE 1 NIGHTTIME WORK TYPICAL SECTION

STH 794 - NB DETOUR ONLY

STA. 132+00 TO STA. 260+13

NOTES:

RAMPS WITHIN PROJECT LIMITS CLOSED DURING STAGE 1 NIGHTTIME CLOSURES

ELLEN ST INTERSECTION TO BE CLOSED DURING STAGE 1

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" FOR LANE CLOSURE DETAILS
3. PORTABLE CHANGEABLE MESSAGE BOARD TO USE THE FOLLOWING MESSAGES:

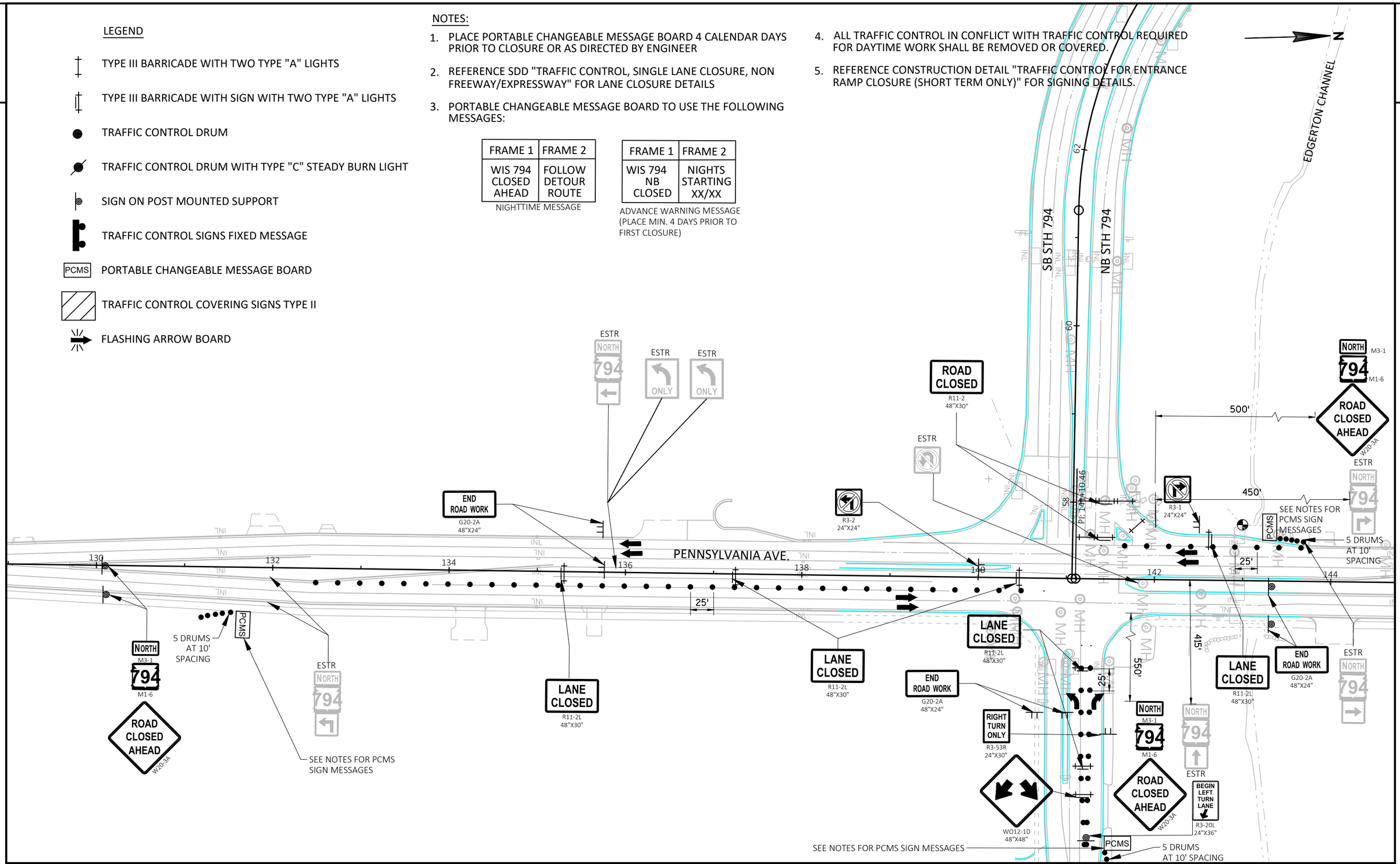
FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	FOLLOW DETOUR ROUTE

NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 NB CLOSED	NIGHTS STARTING XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

4. ALL TRAFFIC CONTROL IN CONFLICT WITH TRAFFIC CONTROL REQUIRED FOR DAYTIME WORK SHALL BE REMOVED OR COVERED.
5. REFERENCE CONSTRUCTION DETAIL "TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE (SHORT TERM ONLY)" FOR SIGNING DETAILS.



PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - NIGHTTIME WORK	SHEET 136	E

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE CONSTRUCTION DETAIL "TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE (SHORT TERM ONLY)" FOR SIGNING DETAILS.
3. PORTABLE CHANGEABLE MESSAGE BOARD TO USE THE FOLLOWING MESSAGES:

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	USE DETOUR ROUTE

WB NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	USE ALT ROUTE

EB NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 NB CLOSED	NIGHTS STARTING XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

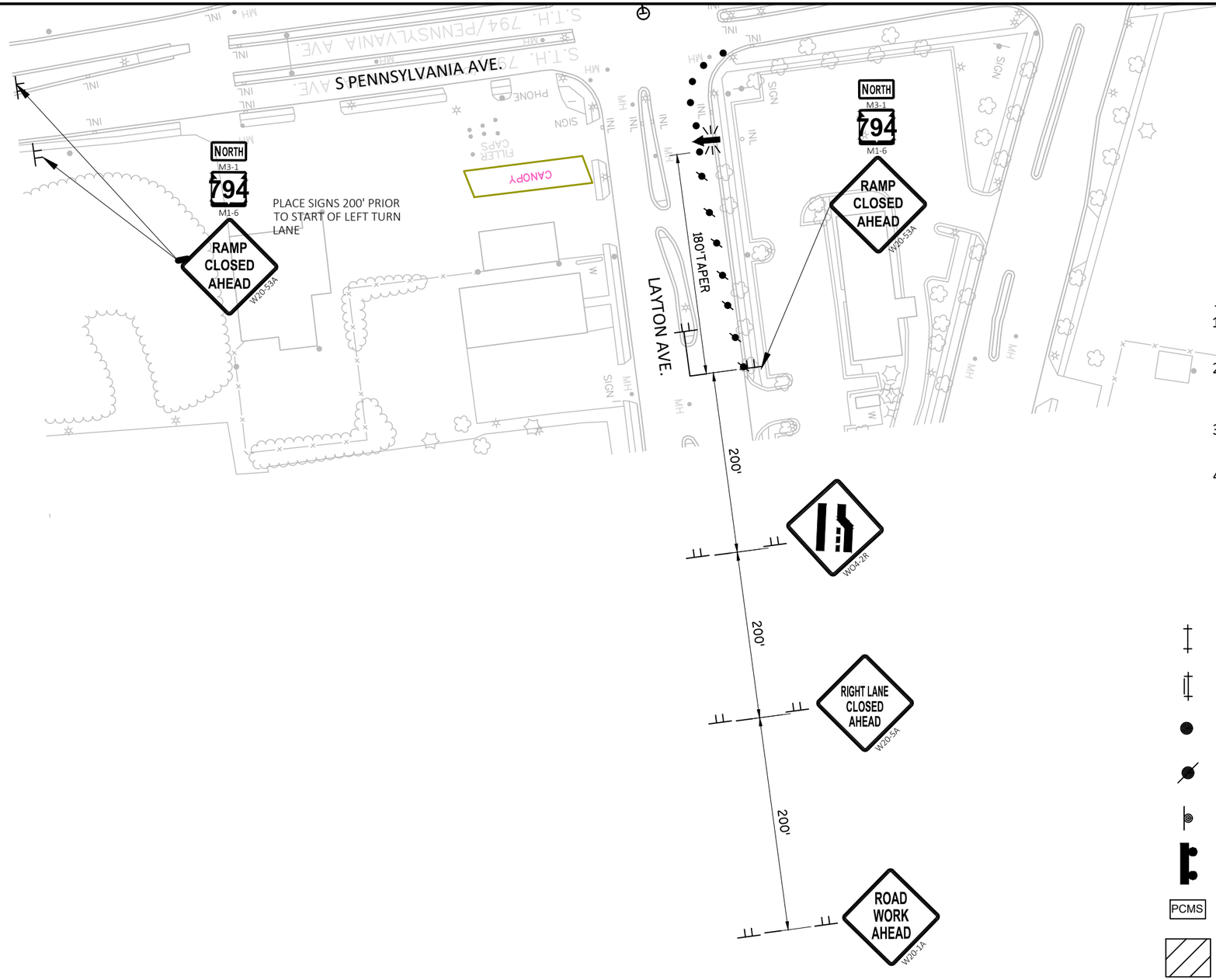
4. ALL TRAFFIC CONTROL IN CONFLICT WITH TRAFFIC CONTROL REQUIRED FOR DAYTIME WORK SHALL BE REMOVED OR COVERED.

ROAD WORK AHEAD W20-2A
NORTH M3-1 794 M1-6
RAMP CLOSED AHEAD W20-53A
LEFT LANE CLOSED AHEAD W20-5A
200'
200'
PLACE IN THE TERRACE AND THE MEDIAN AT THE EAST SIDE OF THE INTERSECTION OF S. AHMEDI AVE.
5 DRUMS AT 10' SPACING
SEE PCMS SIGN NOTES
PCMS
END ROAD WORK G20-2A 48"X24"
ESTR NORTH 794
R3-2 24"X24"
494
25'
LANE CLOSED R11-2L 48"X30"
SB STH 794
NB STH 794
88
90
92
94
96
98
100
102
192
194
196
198
200
202
496
492
494
496
498
500
502
50
54
56
ESTR NORTH 794
RAMP CLOSED R11-2R 48"X30"
END ROAD WORK G20-2A 48"X24"
SEE PCMS SIGN NOTES
LANE CLOSED R11-2L 48"X30"
LAYTON AVE.
498
500
25'
25'
RAMP WILL BE CLOSED X:XX P.M. - X:XX A.M. UNTIL MO. DAY R11-51 48"X48"
R3-1 24"X24"
NORTH M3-1 794 M1-6
RAMP CLOSED AHEAD W20-53A
ESTR NORTH 794
PCMS
5 DRUMS AT 10' SPACING
WHITTNALL AVE.
S PENNSYLVANIA AVE.
PENNSYLVANIA AVE.
S.T.H. 794/PENNSYLVANIA
S.T.H. 794
S.T.H. 794

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - NIGHTTIME WORK	SHEET 137	E



NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" FOR LANE CLOSURE DETAILS
2. ALL ADVANCE WARNING SIGNS TO BE PLACED IN THE TERRACE AND THE MEDIAN. FIELD ADJUSTMENTS TO SIGN LOCATIONS TO BE APPROVED BY THE ENGINEER.
3. ALL TRAFFIC CONTROL IN CONFLICT WITH TRAFFIC CONTROL REQUIRED FOR DAYTIME WORK SHALL BE REMOVED OR COVERED.
4. REFERENCE CONSTRUCTION DETAIL "TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE (SHORT TERM ONLY)" FOR SIGNING DETAILS.

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - NIGHTTIME WORK	SHEET 138	E

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PCMS SIGN MESSAGES

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	USE ALT ROUTE

NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 NB NIGHT	NIGHTS STARTING XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

ROAD WORK AHEAD W20-1A

PLACE SIGN ON EB HOWARD AVE. APPROX. 600' FROM BEGINNING OF LEFT TURN LANE CLOSURE

600'

NORTH M3-1 24"X12"
794 M1-6 24"X24"
RAMP CLOSED AHEAD W20-53A

5 DRUMS AT 10' SPACING

END ROAD WORK G20-2A 48"X24"

PCMS

SEE SIGN MESSAGES

LANE CLOSED R11-2L 48"X30"

ESTR NORTH 794
ESTR SOUTH 794

46'
48'
25'
50'
25'
25'
52'

RAMP CLOSED R11-2R 48"X30"

RAMP WILL BE CLOSED X:XX P.M - X:XX A.M. UNTIL MO. DAY, 2021 R11-51 48"X48"

5 DRUMS AT 10' SPACING

ROAD WORK AHEAD W20-1A

PLACE SIGN ON WB HOWARD AVE. APPROX. 600' FROM THE INTERSECTION OF PENNSYLVANIA AVE.

600'

HOWARD AVE.

S PENNSYLVANIA AVE.

HOWARD AVE. SB ON RAMP

STH 794

HOWARD AVE. NB OFF RAMP

332 334 336 338 340 342 344 246
132 134 136 138 140 142 144 146
432 434 436 438 440 442 444 544 546

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" FOR LANE CLOSURE DETAILS
3. REFERENCE CONSTRUCTION DETAIL "TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE (SHORT TERM ONLY)" FOR SIGNING DETAILS.

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 NORTHBOUND LANES - NIGHTTIME WORK	SHEET 139	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025305B_TC.DWG
LAYOUT NAME - 025310_TC

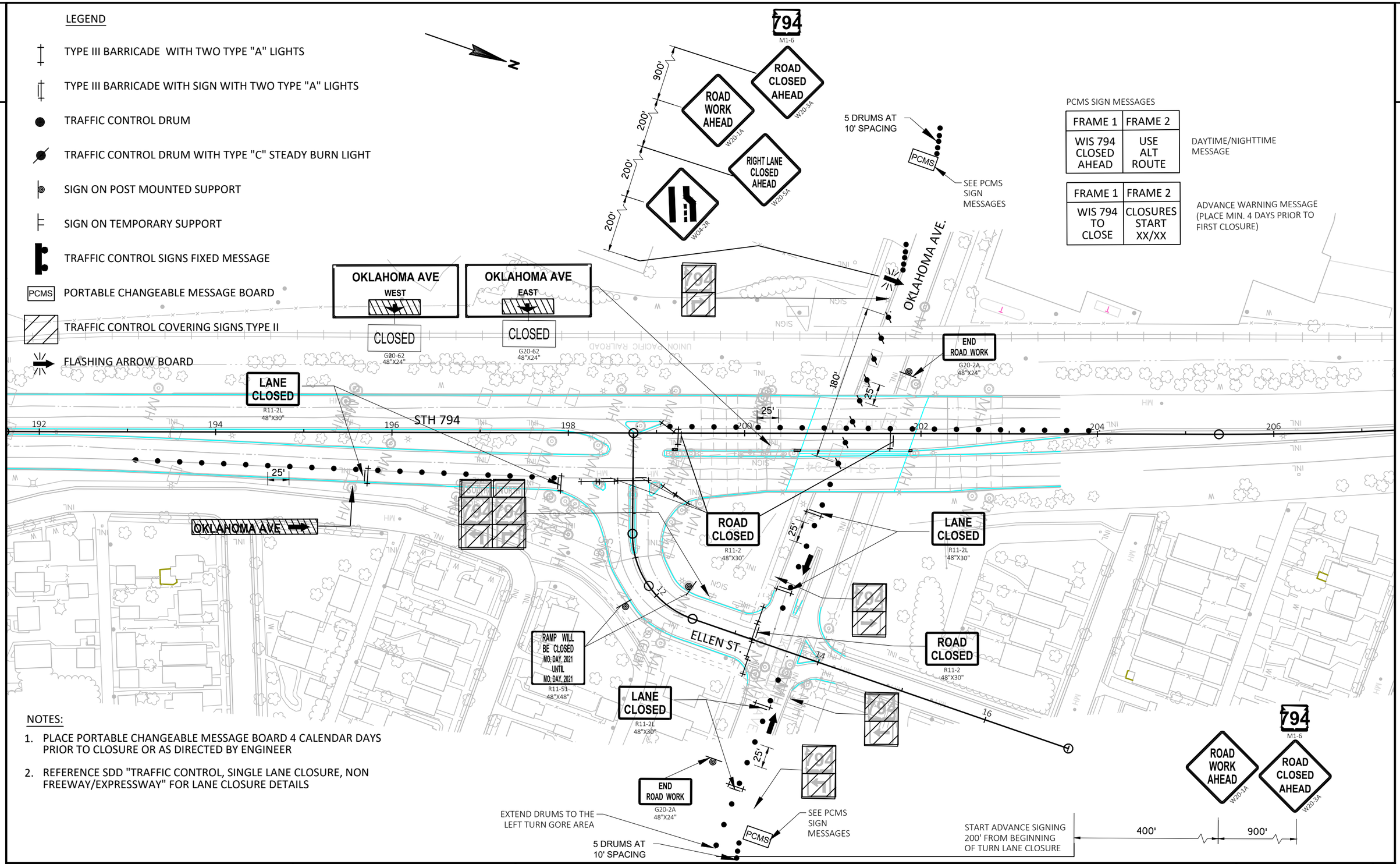
PLOT DATE : 10/30/2020 10:01 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD



PCMS SIGN MESSAGES

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	USE ALT ROUTE

DAYTIME/NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 TO CLOSE	CLOSURES START XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

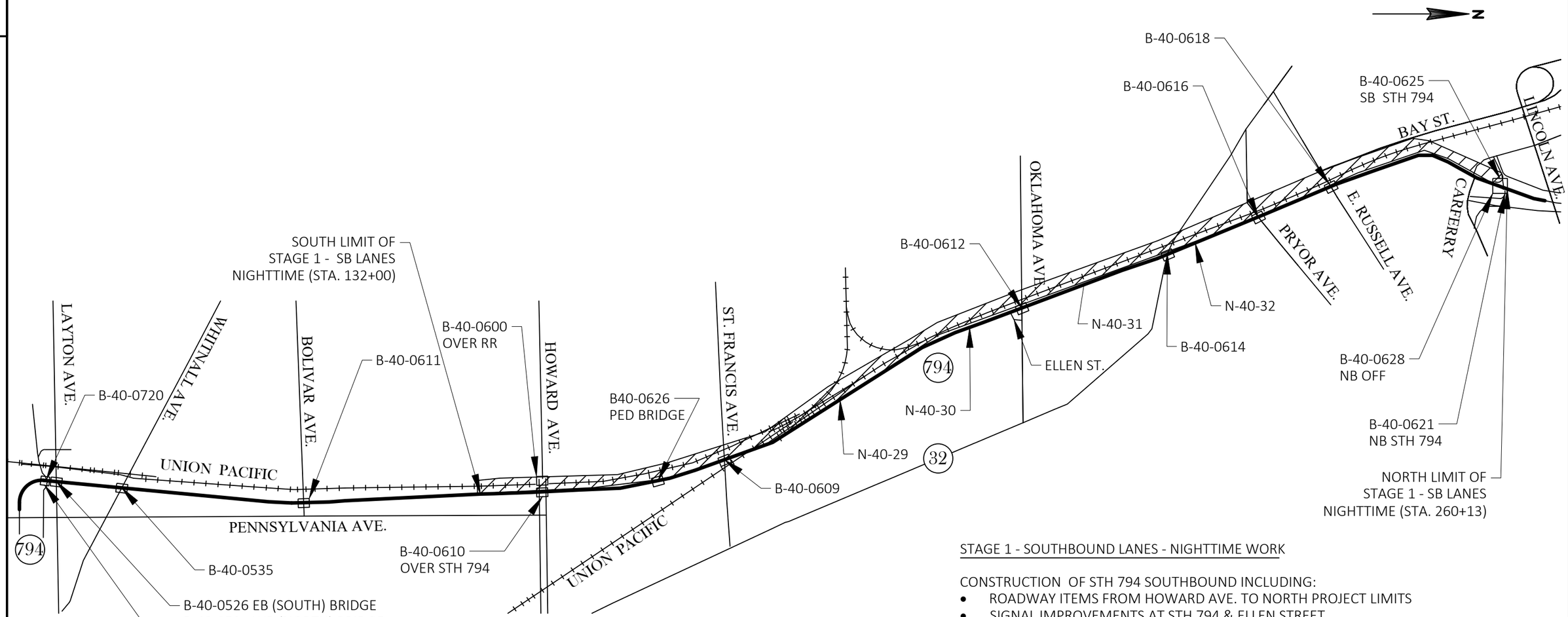
NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" FOR LANE CLOSURE DETAILS

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 NORTHBOUND LANES - NIGHTTIME WORK	SHEET 140	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025305B_TC.DWG
LAYOUT NAME - 025311_TC
PLOT DATE : 10/30/2020 10:01 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



STAGE 1 - SOUTHBOUND LANES - NIGHTTIME WORK

CONSTRUCTION OF STH 794 SOUTHBOUND INCLUDING:

- ROADWAY ITEMS FROM HOWARD AVE. TO NORTH PROJECT LIMITS
- SIGNAL IMPROVEMENTS AT STH 794 & ELLEN STREET
- REPAIR NOISE WALLS

TRAFFIC

- CLOSE STH 794 SOUTHBOUND FROM HOWARD AVE. TO PORT OF MILWAUKEE/CARFERRY DR.
- CLOSE ACCESS TO STH 794 SOUTHBOUND AT HOWARD AVE, ELLEN ST. AND PORT OF MILWAUKEE/CARFERRY DR.

▨ - WORK ZONE

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL OVERVIEW - STAGE 1 - SOUTHBOUND LANES - NIGHTTIME WORK	SHEET 141	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025401_TC.DWG
LAYOUT NAME - 01
PLOT DATE : 10/30/2020 10:02 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

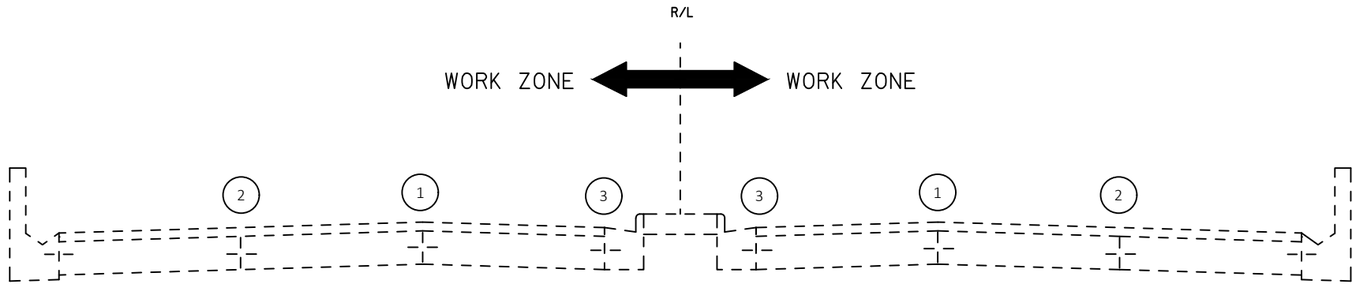
PAVEMENT MARKING LEGEND

1. TEMPORARY MARKING LINE PAINT 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
2. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
3. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)

PAVEMENT MARKING NOTES:

PLACE TEMPORARY MARKINGS PRIOR TO REOPENING THE ROADWAY AFTER NIGHTTIME CLOSURES. TEMPORARY MARKING REQUIRED FOR BOTH THE LOWER AND UPPER LAYERS OF ASPHALT.

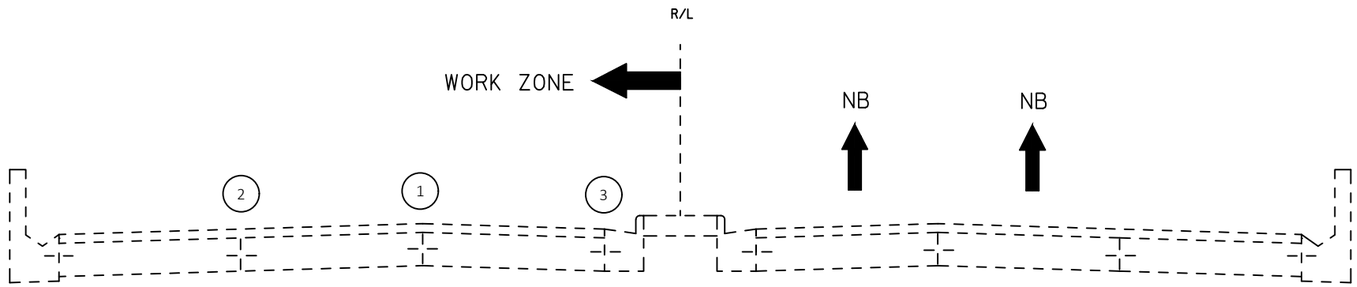
FULL DETOUR



STAGE 1 NIGHTTIME WORK TYPICAL SECTION

STH 794 - NB & SB DETOUR

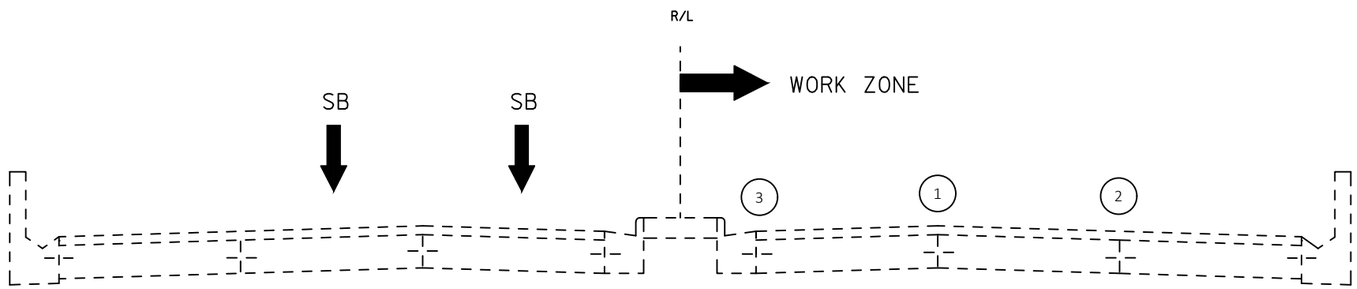
STA. 132+00 TO STA. 260+13



STAGE 1 NIGHTTIME WORK TYPICAL SECTION

STH 794 - SB DETOUR ONLY

STA. 132+00 TO STA. 260+13



STAGE 1 NIGHTTIME WORK TYPICAL SECTION

STH 794 - NB DETOUR ONLY

STA. 132+00 TO STA. 260+13

NOTES:

RAMPS WITHIN PROJECT LIMITS CLOSED DURING STAGE 1 NIGHTIME CLOSURES

ELLEN ST INTERSECTION TO BE CLOSED DURING STAGE 1

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

794 M1-6 24"X24"

900' ROAD CLOSED AHEAD W20-3A

200' ROAD WORK AHEAD W20-1A

200' RIGHT LANE CLOSED AHEAD W20-5A

200' W04-2R

5 DRUMS AT 10' SPACING

PCMS — SEE PCMS SIGN MESSAGES

PCMS SIGN MESSAGES

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	USE ALT ROUTE

DAYTIME/NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 TO CLOSE	CLOSURES START XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

OKLAHOMA AVE WEST — CLOSED — G20-62 48"X24"

OKLAHOMA AVE EAST — CLOSED — G20-62 48"X24"

OKLAHOMA AVE.

25' TYP.

END ROAD WORK G20-2A 48"X24"

LANE CLOSED R11-2L 48"X30"

ROAD CLOSED R11-2 48"X30"

STH 794

192 194 196 198 200 202 204 206

25'

OKLAHOMA AVE

RAMP CLOSED R11-2R 48"X30"

LANE CLOSED R11-2L 48"X30"

ELLEN ST.

RAMP WILL BE CLOSED MO, DAY, 2021 UNTIL MO, DAY, 2021 R11-51 48"X48"

ROAD CLOSED R11-2 48"X30"

LANE CLOSED R11-2L 48"X30"

END ROAD WORK G20-2A 48"X24"

COVER EXISTING SIGN ATTACHED TO LIGHT POLE

SEE PCMS SIGN MESSAGES

EXTEND DRUMS TO THE LEFT TURN GORE AREA

5 DRUMS AT 10' SPACING

PCMS

794 M1-6 24"X24"

ROAD WORK AHEAD W20-1A

ROAD CLOSED AHEAD W20-3A

START ADVANCE SIGNING 200' FROM PCMS

400' 900'

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" FOR LANE CLOSURE DETAILS

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES NIGHTTIME WORK	SHEET 143	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025405_TC.DWG
LAYOUT NAME - 025408_tc

PLOT DATE : 10/30/2020 10:03 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE CONSTRUCTION DETAIL "TWO LANE FULL FREEWAY CLOSURE" FOR SIGNING DETAILS.
3. REFERENCE CONSTRUCTION DETAIL "TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE (SHORT TERM ONLY)" FOR SIGNING DETAILS.

NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 SB CLOSED	FOLLOW DETOUR ROUTE

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

FRAME 1	FRAME 2
WIS 794 SB CLOSED	NIGHTS STARTING XX/XX

RAMP CLOSED
R11-2R
48"X30"

PCMS

5 DRUMS AT 10' SPACING

RAMP WILL BE CLOSED MO, DAY, 2021 UNTIL MO, DAY, 2021
R11-51
48"X48"

CARFERRY DRIVE

LINCOLN AVE. VIADUCT

STH 794

S. LINCOLN MEMORIAL DR.

SOUTH 794

M3-3 24"X12"
M1-6 24"X24"

PLACE ONE SIGN AT THE EASTBOUND AND SOUTHBOUND LEGS OF THE INTERSECTION OF LINCOLN AVE. VIADUCT AND S. LINCOLN MEMORIAL DR.

PLACE ONE SIGN AT SOUTHBOUND LEG OF THE INTERSECTION OF BAY ST. AND ALDRICH ST.

PLACE ONE SIGN AT NORTHBOUND LEG OF THE INTERSECTION OF BAY ST. AND LINCOLN AVE.

RAMP CLOSED AHEAD
W20-5A

LEGEND

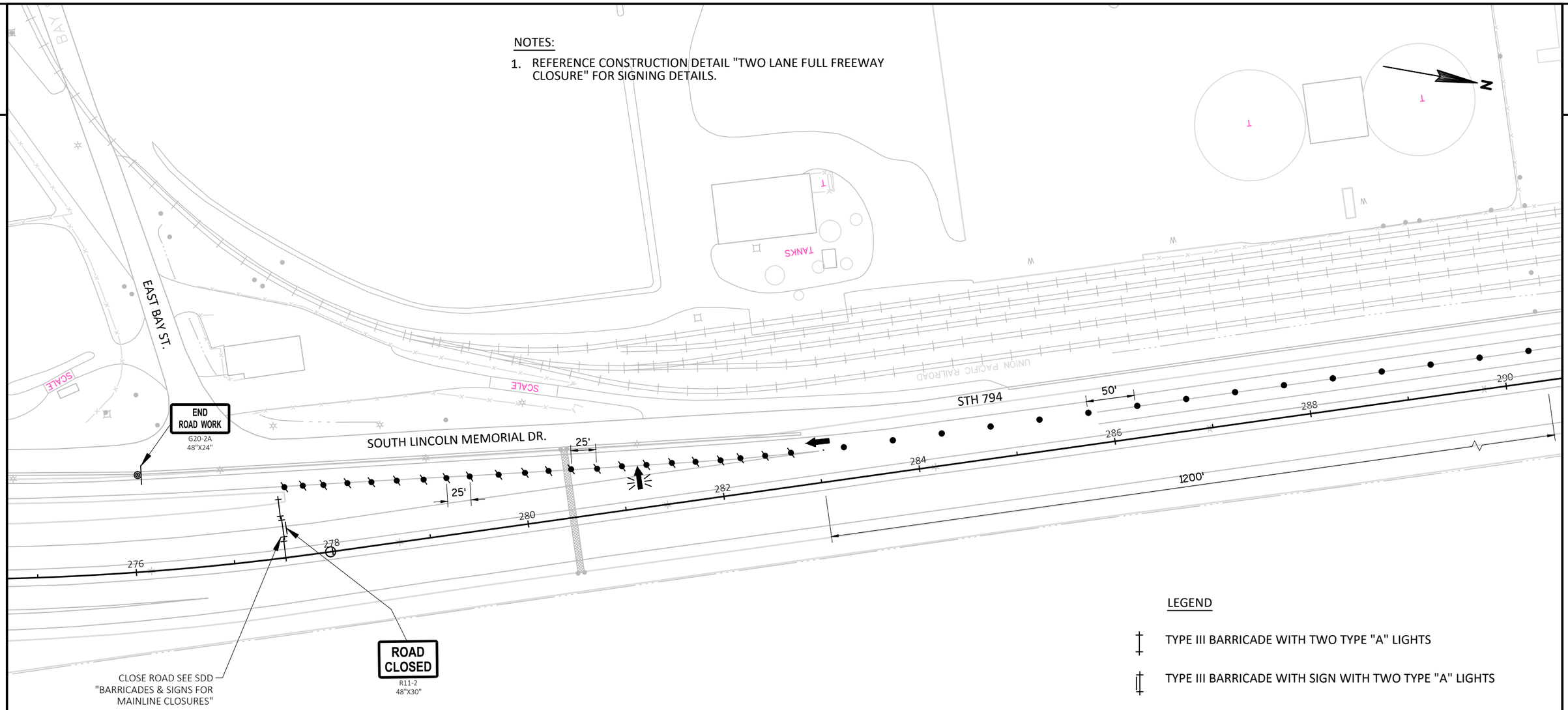
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES NIGHTTIME WORK	SHEET 144 E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025405_TC.DWG
LAYOUT NAME - 025409_tc
PLOT DATE : 10/30/2020 10:04 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

NOTES:

1. REFERENCE CONSTRUCTION DETAIL "TWO LANE FULL FREEWAY CLOSURE" FOR SIGNING DETAILS.



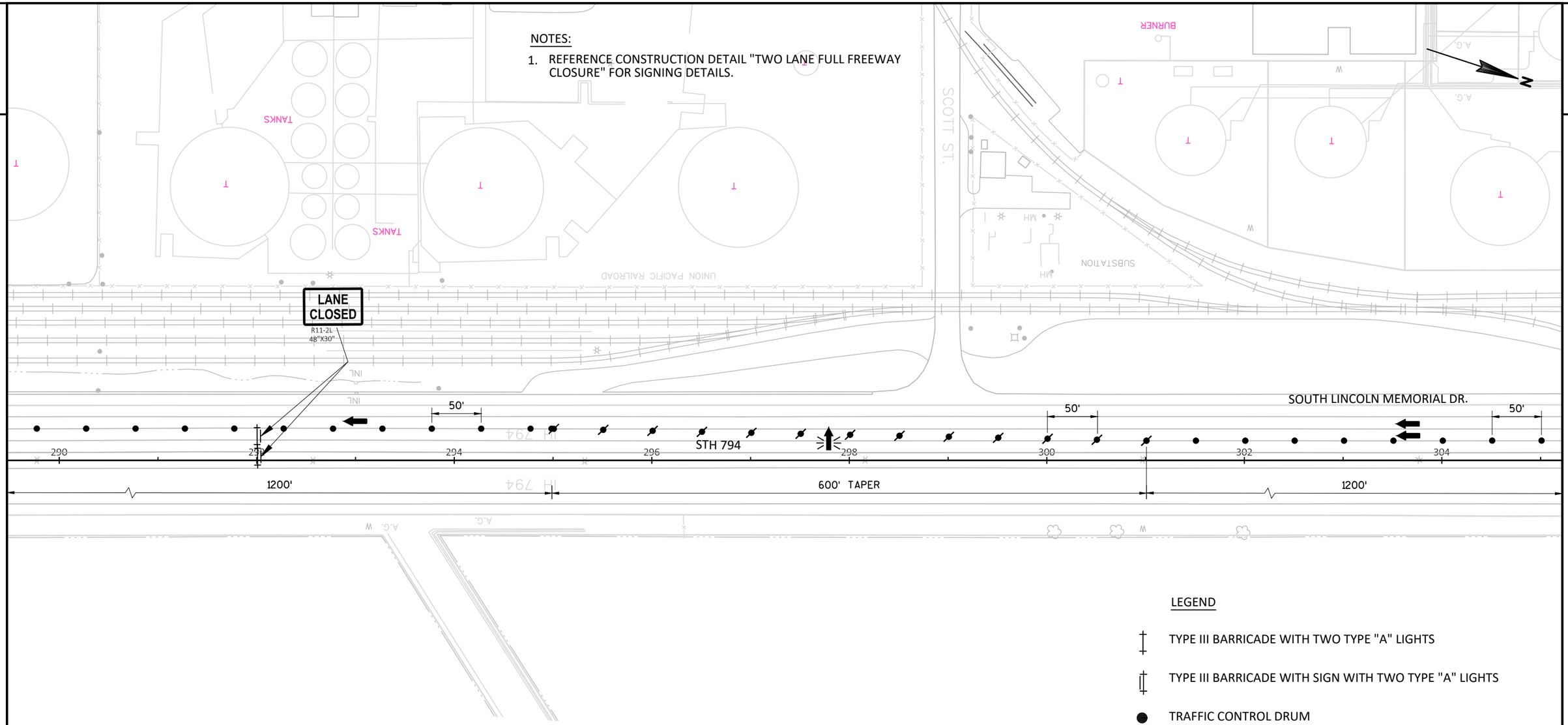
LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES NIGHTTIME WORK	SHEET 145	E

NOTES:

1. REFERENCE CONSTRUCTION DETAIL "TWO LANE FULL FREEWAY CLOSURE" FOR SIGNING DETAILS.



LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES NIGHTTIME WORK	SHEET 146	E

NOTES:

1. REFERENCE CONSTRUCTION DETAIL "TWO LANE FULL FREEWAY CLOSURE" FOR SIGNING DETAILS.

MINIMUM SPACING FOR "LANE CLOSED" SIGN ON BARRICADE IS 1000'





SOUTH LINCOLN MEMORIAL DR.

50'

50'

304 306 308 310 312 314 316 318

STH 794

1200'

600' TAPER

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES NIGHTTIME WORK	SHEET 147	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025405_TC.DWG
LAYOUT NAME - 025412_tc

PLOT DATE : 10/30/2020 10:05 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE CONSTRUCTION DETAIL "TWO LANE FULL FREEWAY CLOSURE" FOR SIGNING DETAILS.
3. PLACE PORTABLE CHANGEABLE MESSAGE BOARDS PRIOR TO PREVIOUS WIS 794 ON-RAMPS FROM ISH-94, AND AT N. LINCOLN MEMORIAL DR /E. CLYBOURN ST INTERSECTION
4. PLACE TRAFFIC CONTROL SIGNS ON BOTH SIDES OF THE ROADWAY

NIGHTTIME DETOUR

FRAME 1	FRAME 2
WIS 794 CLOSED	EXIT AHEAD

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

FRAME 1	FRAME 2
WIS 794 SB CLOSED	NIGHTS STARTING XX/XX

E. JONES ST.

SOUTH LINCOLN MEMORIAL DR.

50' 50'

318 320 322 324 326 328 330 332

STH 794

600' TAPER 500'

PCMS PCMS PCMS PCMS

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

W04-2L

LEFT LANE CLOSED 1500 FT W20-59B

LEFT TWO LANES CLOSED 1500 FT W20-59B

LEFT LANE CLOSED 1/2 MILE W20-59C

LEFT TWO LANES CLOSED 1/2 MILE W20-59C

LEFT LANE CLOSED AHEAD W20-59A

LEFT TWO LANES CLOSED AHEAD W20-59A

ROAD WORK AHEAD W20-1A

ROAD CLOSED AHEAD W20-3A

500' 500' 1200' 7500' 500'

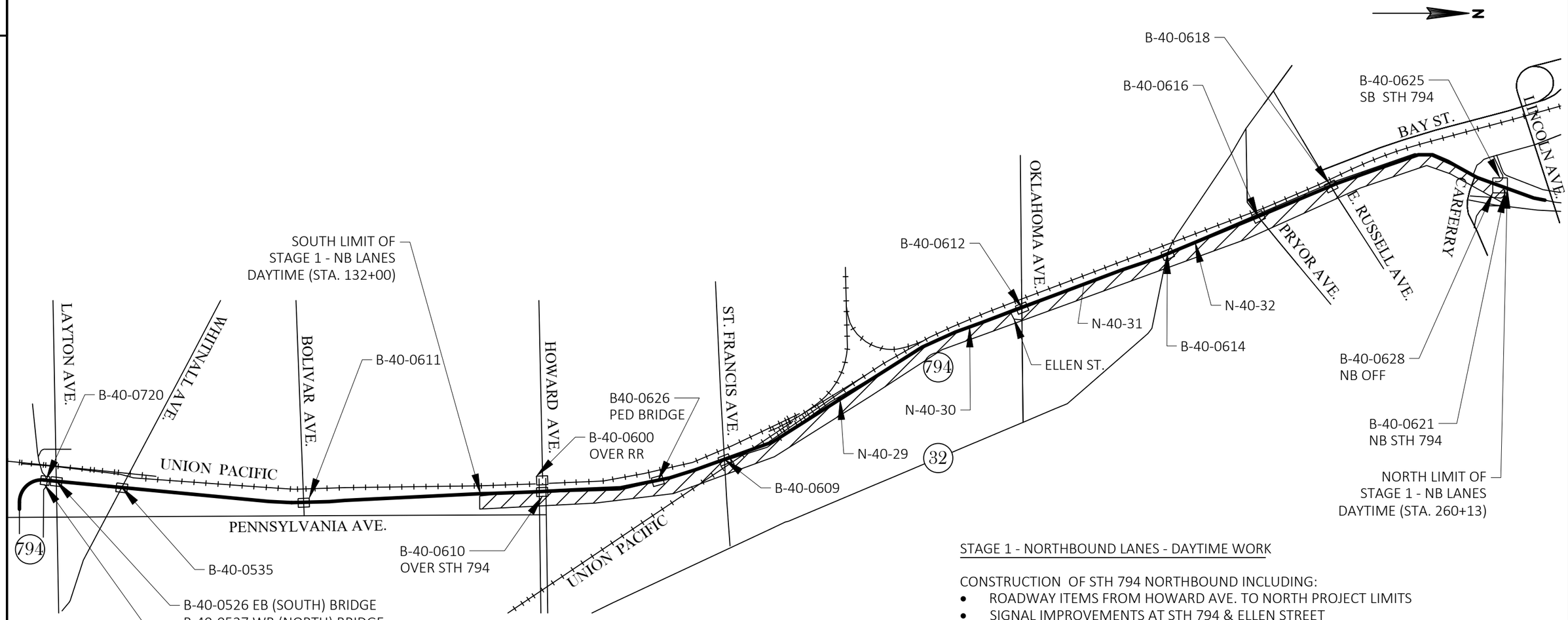
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES NIGHTTIME WORK	SHEET 148	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025405_TC.DWG
LAYOUT NAME - 025413_tc

PLOT DATE : 10/30/2020 10:05 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



STAGE 1 - NORTHBOUND LANES - DAYTIME WORK

CONSTRUCTION OF STH 794 NORTHBOUND INCLUDING:

- ROADWAY ITEMS FROM HOWARD AVE. TO NORTH PROJECT LIMITS
- SIGNAL IMPROVEMENTS AT STH 794 & ELLEN STREET
- REPAIR NOISE WALLS

TRAFFIC

- MEDIAN LANE CLOSURE OF STH 794 NORTHBOUND FROM PENNSYLVANIA AVE. TO PORT OF MILWAUKEE/CARFERRY DR. MAINTAIN A MINIMUM OF ONE LANE OPEN TO TRAFFIC AT ALL TIMES.
- MAINTAIN ACCESS TO STH 794 NORTHBOUND AT PENNSYLVANIA AVE., LAYTON AVE., HOWARD AVE., AND PORT OF MILWAUKEE/CARFERRY DR.
- CLOSE ELLEN STREET CONNECTION AT OKLAHOMA AVE TO STH 794.

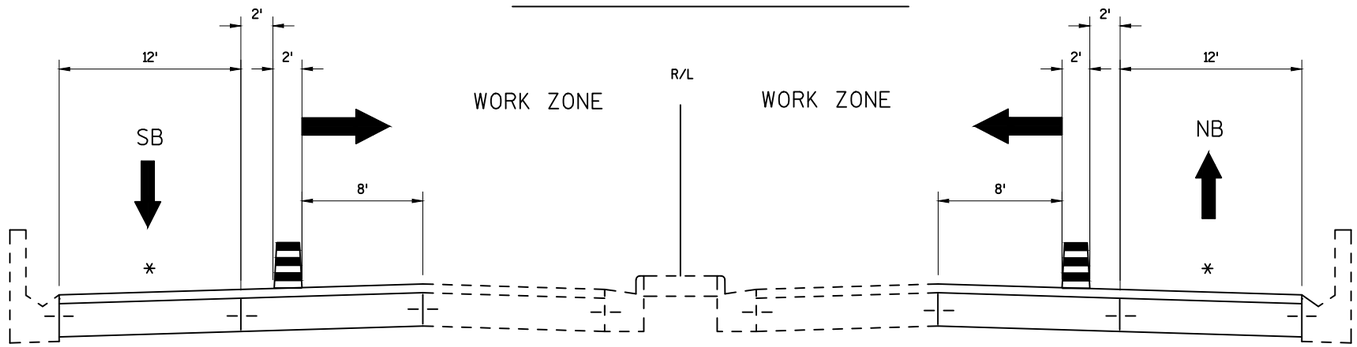
▨ - WORK ZONE

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL OVERVIEW - STAGE 1 - NORTHBOUND LANES - DAYTIME WORK	SHEET 149	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025501_TC.DWG
LAYOUT NAME - 01
PLOT DATE : 10/30/2020 10:06 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

NON-PEAK SINGLE LANE CLOSURE



STAGE 1 DAYTIME - TYPICAL SECTION

STH 794 NB & SB

STA. 132+00 TO STA. 260+13

TRAFFIC CONTROL DRUMS

NOTES:

ALL LANES TO BE OPEN DURING PEAK HOURS

ELLEN ST INTERSECTION TO BE CLOSED DURING STAGE 1

ALL PAVING TO BE COMPLETED DURING NIGHTTIME CLOSURES

* SHOULDER WIDTH VARIES 8'-16'
STA. 132+00 TO STA. 174+00

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 NORTHBOUND LANES - DAYTIME WORK	SHEET 150	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025502_TC.DWG
LAYOUT NAME - STAGE 1 DAY

PLOT DATE : 10/30/2020 10:06 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : ##########

2

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS
3. PORTABLE CHANGEABLE MESSAGE BOARD TO USE THE FOLLOWING MESSAGES. PORTABLE CHANGEABLE MESSAGE BOARDS LOCATIONS ARE THE SAME AS STAGE 1 NORTHBOUND NIGHTTIME CLOSURES:

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	FOLLOW DETOUR ROUTE

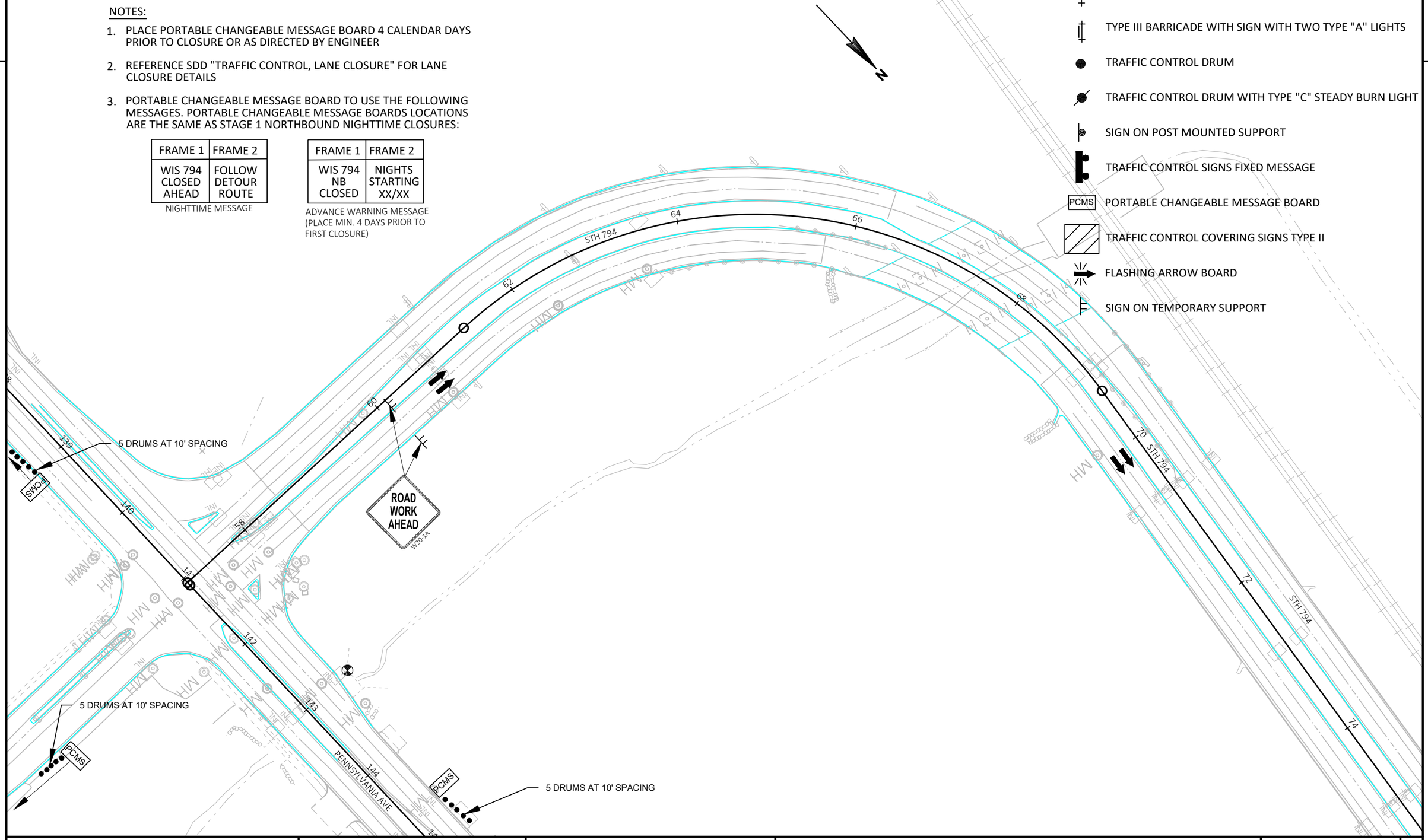
NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 NB CLOSED	NIGHTS STARTING XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

LEGEND

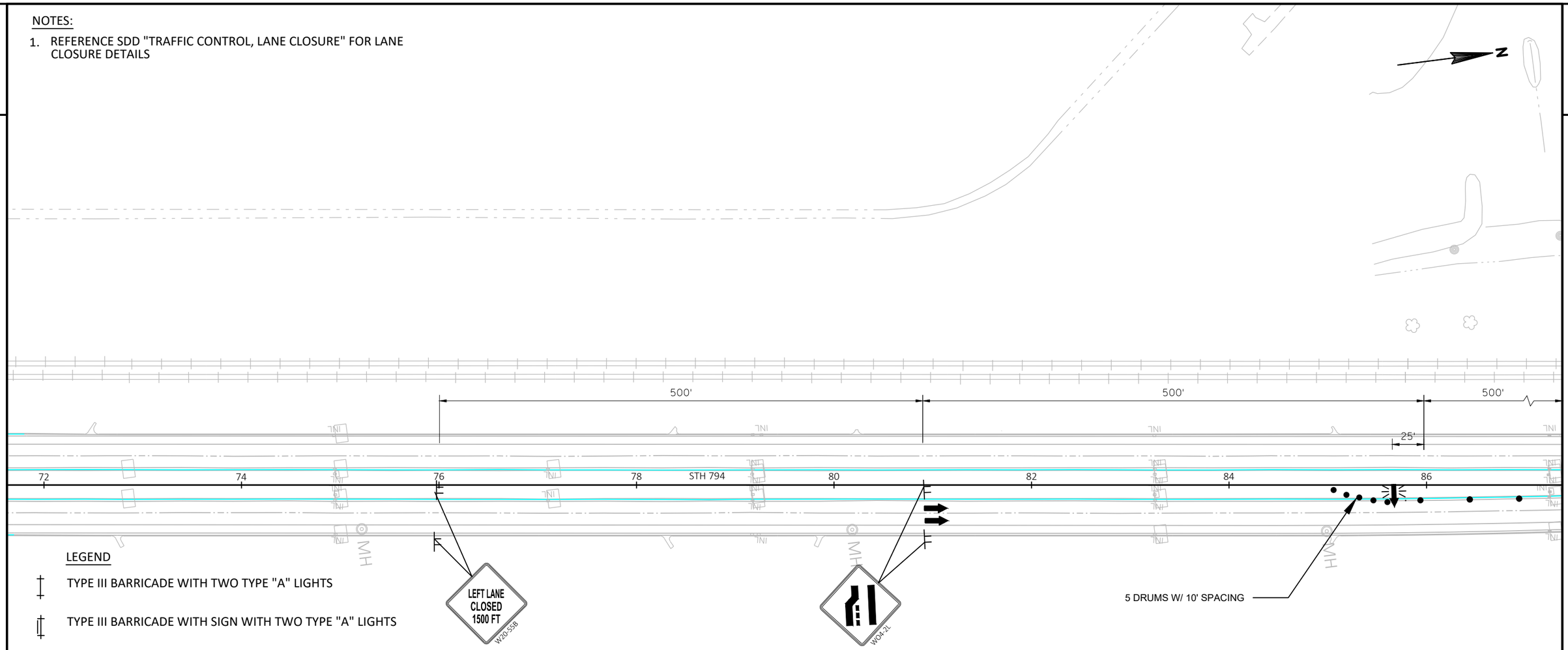
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD
- SIGN ON TEMPORARY SUPPORT



PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - DAYTIME WORK	SHEET 151	E

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS



LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD
- SIGN ON TEMPORARY SUPPORT

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - DAYTIME WORK	SHEET 152	E

2

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS

5 DRUMS AT 10' SPACING

PCMS

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	USE ALT ROUTE

NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 NB NIGHT	NIGHTS STARTING XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

LAYTON AVE

LAYTON AVE SB-OFF RAMP

600' TAPER

500'

STH 794

EXISTING SIGN TO REMAIN

REMOVE

LAYTON AVE NB-ON RAMP

500'

ROAD WORK AHEAD

W20-1A

W04-5 48"X48"

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	FOLLOW DETOUR ROUTE

NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 NB CLOSED	NIGHTS STARTING XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

PCMS

5 DRUMS AT 10' SPACING

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD
- SIGN ON TEMPORARY SUPPORT

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - DAYTIME WORK	SHEET 153	E

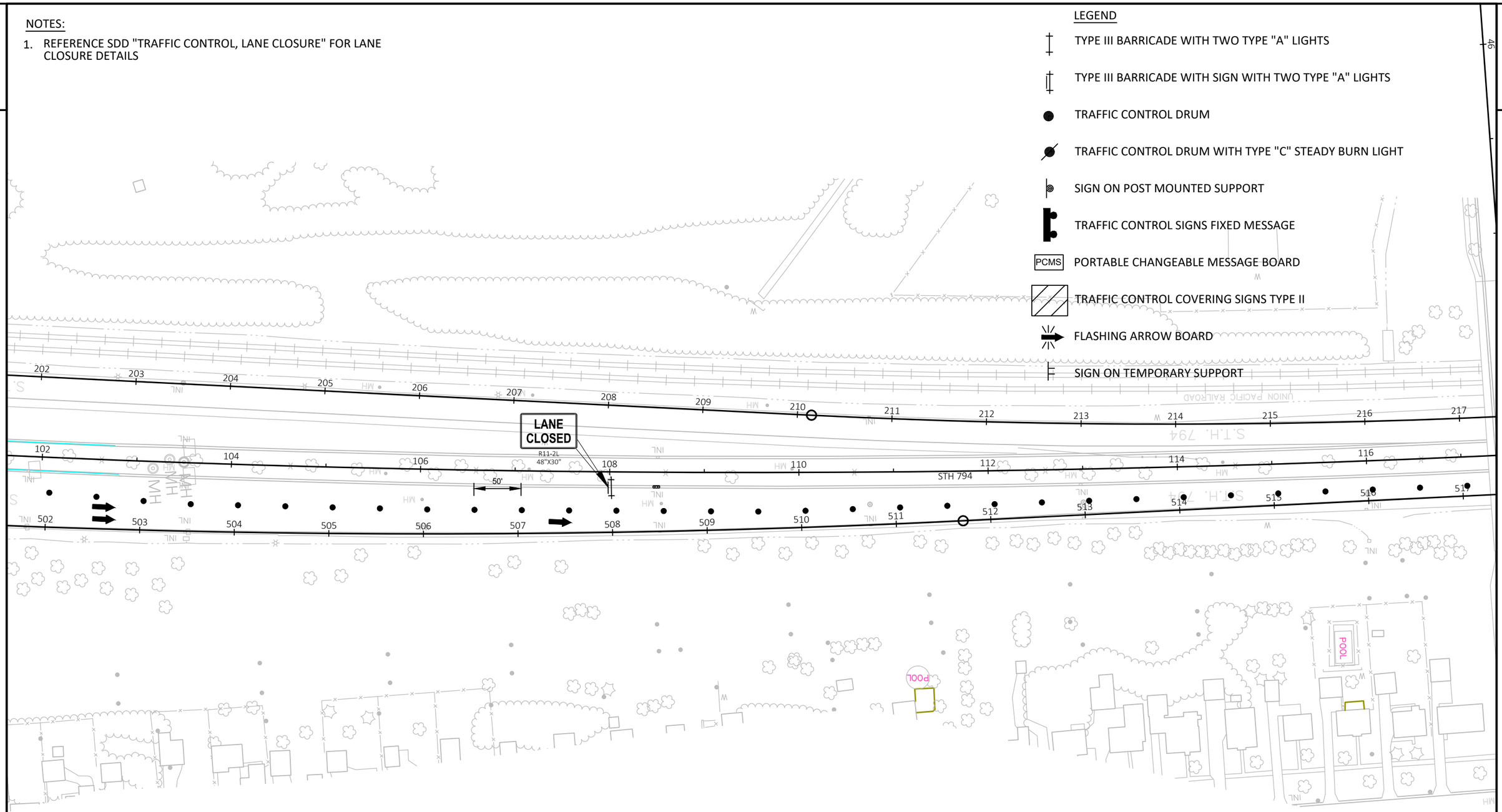
FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025505_TC.DWG
LAYOUT NAME - 025507_TC
PLOT DATE : 10/30/2020 10:08 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD
- SIGN ON TEMPORARY SUPPORT



PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - DAYTIME WORK	SHEET 154	E

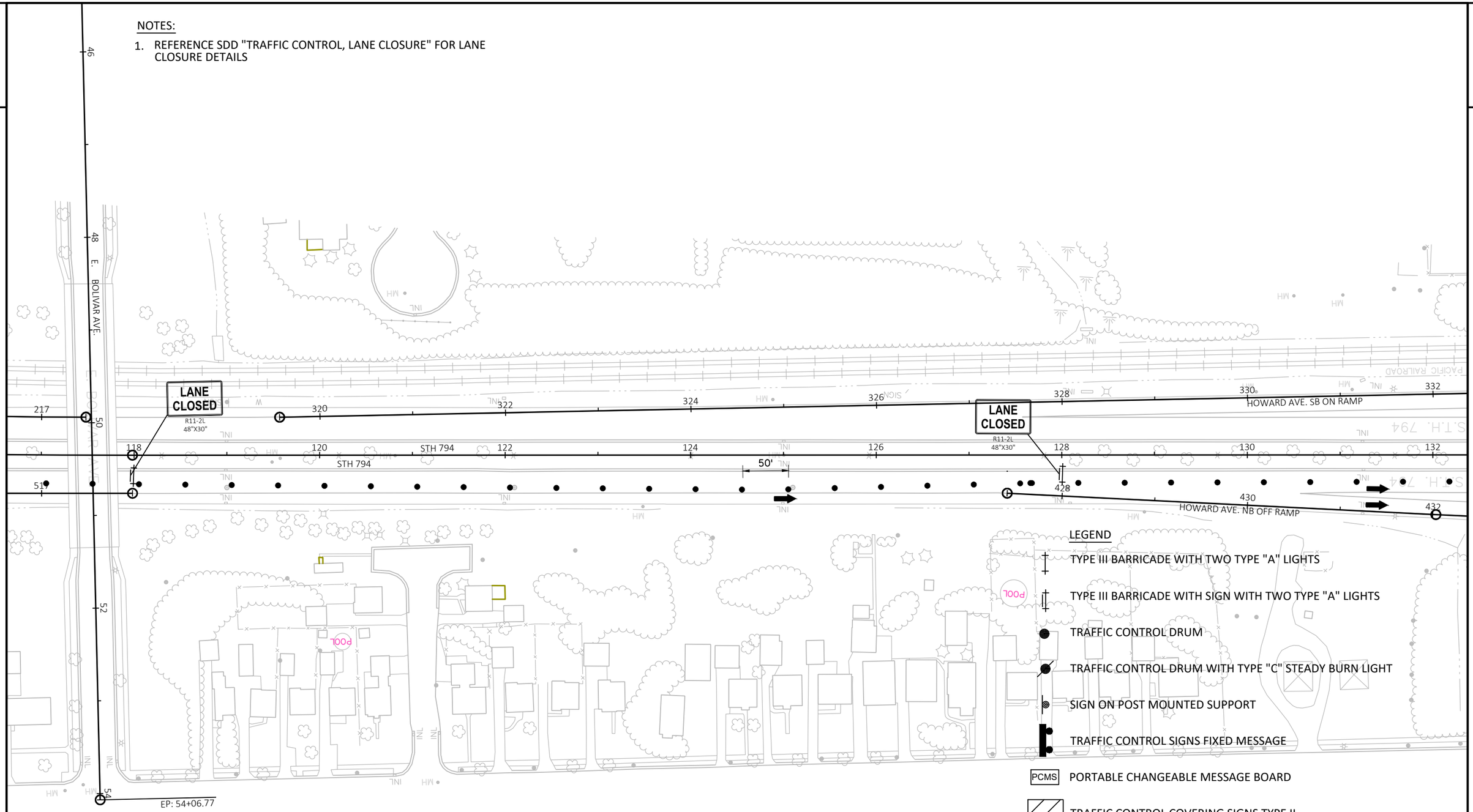
FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025505_TC.DWG
LAYOUT NAME - 025508_TC

PLOT DATE : 10/30/2020 10:09 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS



PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - DAYTIME WORK	SHEET 155	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025505_TC.DWG
LAYOUT NAME - 025509_TC
PLOT DATE : 10/30/2020 10:09 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD
- SIGN ON TEMPORARY SUPPORT

PCMS SIGN MESSAGES

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	USE ALT ROUTE

NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 NB NIGHT	NIGHTS STARTING XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

PLACE SIGN ON EB HOWARD AVE. APPROX. 600' FROM BEGINNING OF LEFT TURN LANE CLOSURE

ROAD WORK AHEAD W20-1A

600'

ARCTIC AVE.

N

ESTR NORTH 794 ESTR SOUTH 794

END ROAD WORK G20-2A 48"X24"

SEE SIGN MESSAGES

PCMS

HOWARD AVE.

ESTR SOUTH 794

ESTR SOUTH 794

332 334 336 338 340 342 344 246

HOWARD AVE. SB ON RAMP

LANE CLOSED R11-2L 48"X30"

STH 794

132 134 136 138 140 142 144 146

STH 794

50'

ESTR ONLY

50

432 434 436 438 440 442 444 544 546

HOWARD AVE. NB OFF RAMP

END ROAD WORK G20-2A 48"X24"

ESTR NORTH 794

END ROAD WORK G20-2A 48"X24"

RAMP CLOSED R11-2R 48"X30"

ESTR NORTH 794

RAMP WILL BE CLOSED X:XX P.M - X:XX A.M. UNTIL MO.DAY, 2021 R11-51 48"X48"

ESTR SOUTH 794 ESTR NORTH 794

52

PCMS

SEE SIGN MESSAGES

ROAD WORK AHEAD W20-1A

600'

PLACE SIGN ON WB HOWARD AVE. APPROX. 600' FROM THE INTERSECTION OF PENNSYLVANIA AVE.

HOWARD AVE.

S PENNSYLVANIA AVE.

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - DAYTIME WORK	SHEET 156	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025505_TC.DWG
LAYOUT NAME - 025510_TC

PLOT DATE : 10/30/2020 10:09 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

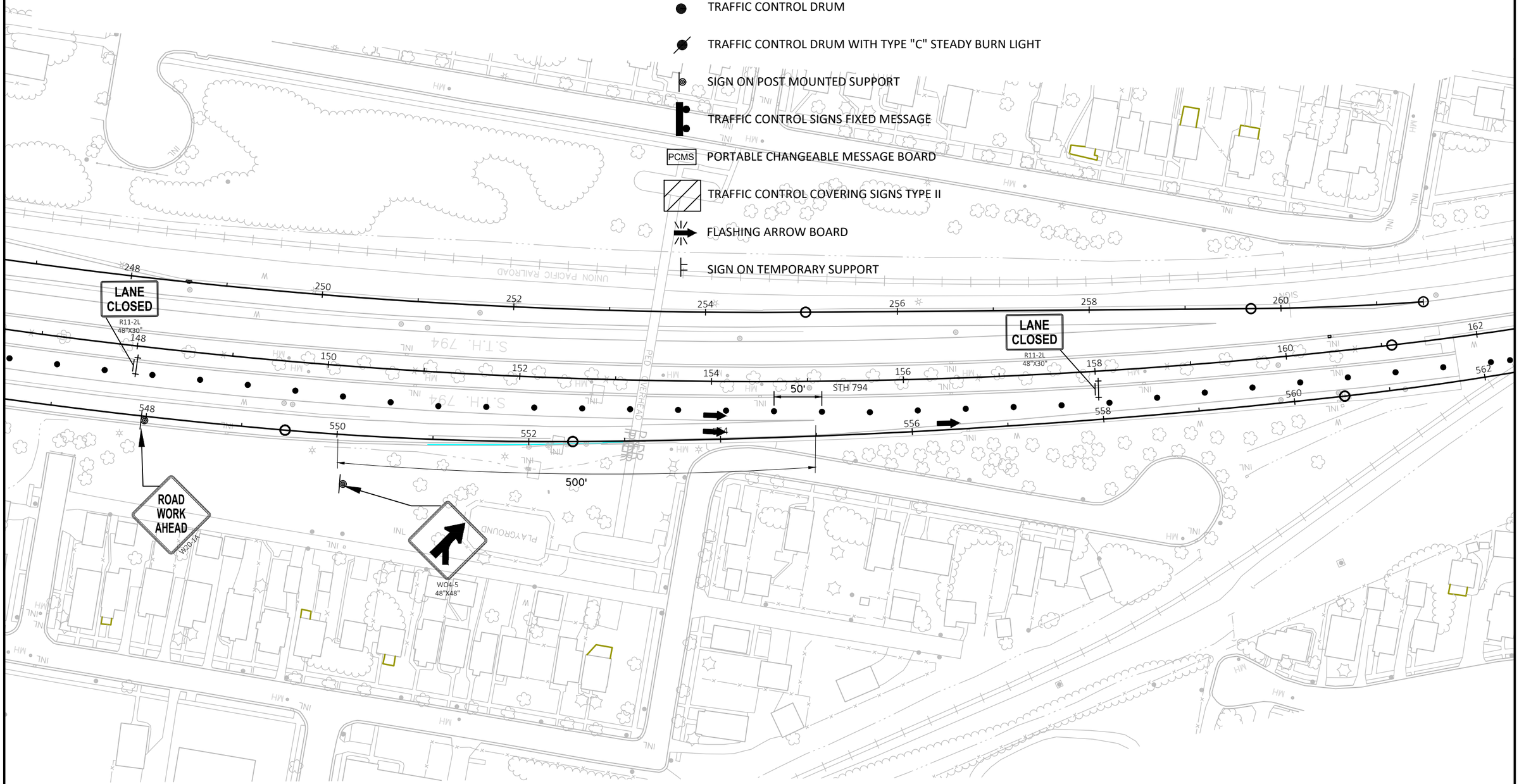
NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD
- SIGN ON TEMPORARY SUPPORT

N



2

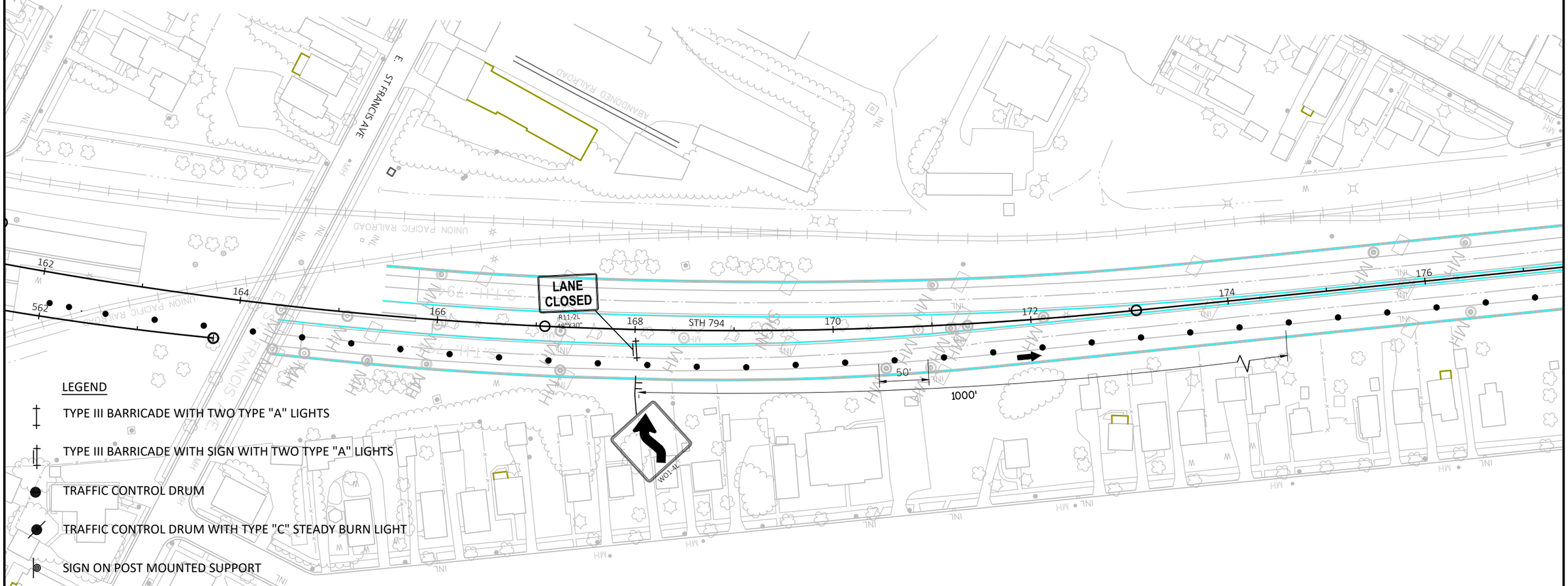
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - DAYTIME WORK	SHEET 157	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025505_TC.DWG
LAYOUT NAME - 025511_TC

PLOT DATE : 10/30/2020 10:10 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS



LEGEND

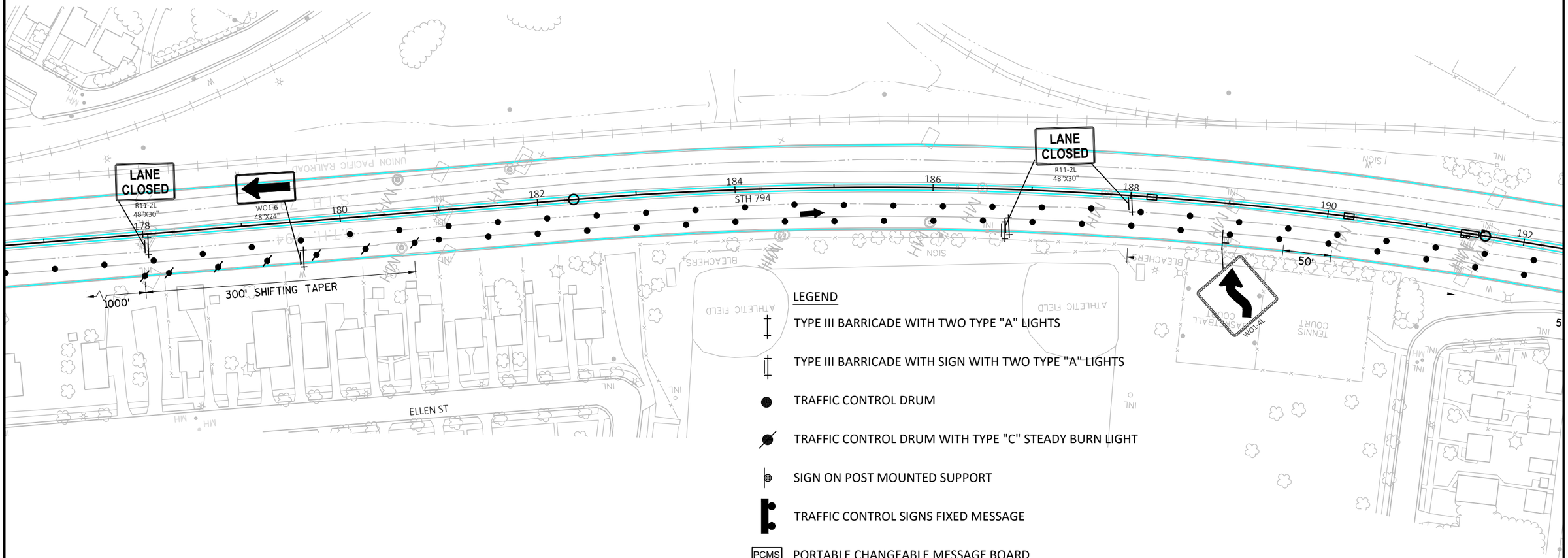
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD
- SIGN ON TEMPORARY SUPPORT

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - DAYTIME WORK	SHEET 158	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025505_TC.DWG
LAYOUT NAME - 025512_TC
PLOT DATE : 10/30/2020 10:10 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS



LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD
- SIGN ON TEMPORARY SUPPORT

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - DAYTIME WORK	SHEET 159	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025505_TC.DWG
LAYOUT NAME - 025513_TC
PLOT DATE : 10/30/2020 10:11 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD
- SIGN ON TEMPORARY SUPPORT

794 M1-6

ROAD CLOSED AHEAD W20-3A

ROAD WORK AHEAD W20-1A

RIGHT LANE CLOSED AHEAD W20-5A

W04-2R

900' 200' 200' 200'

5 DRUMS AT 10' SPACING

PCMS

SEE PCMS SIGN MESSAGES

FIVE DRUMS AT 10' SPACING

PCMS SIGN MESSAGES

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	USE ALT ROUTE

DAYTIME/NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 TO CLOSE	CLOSURES START XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

OKLAHOMA AVE WEST — CLOSED — G20-62 48"X24"

OKLAHOMA AVE EAST — CLOSED — G20-62 48"X24"

OKLAHOMA AVE.

END ROAD WORK G20-2A 48"X24"

LANE CLOSED R11-2L 48"X30"

LANE CLOSED R11-2L 48"X30"

STH 794

192 194 196 198 200 202 204 206

25' 25' 50'

500' TANGENT

ELLEN ST

OKLAHOMA AVE

600' LANE SHIFT

ROAD CLOSED R11-2 48"X30"

LANE CLOSED R11-2L 48"X30"

ROAD CLOSED R11-2 48"X30"

12 14 16

ELLEN ST.

HILLCREST AVE

EUCLID AVE

BENNETT AVE

UNION PACIFIC RAILROAD

RAMP WILL BE CLOSED MO; DAY, 2021 UNTIL MO; DAY, 2021 R11-51 48"X48"

LANE CLOSED R11-2L 48"X30"

END ROAD WORK G20-2A 48"X24"

COVER EXISTING SIGN ATTACHED TO LIGHT POLE

EXTEND DRUMS TO THE LEFT TURN GORE AREA

5 DRUMS AT 10' SPACING

PCMS

SEE PCMS SIGN MESSAGES

START ADVANCE SIGNING 200' FROM PCMS

400' 900'

794 M1-6

ROAD WORK AHEAD W20-1A

ROAD CLOSED AHEAD W20-3A

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS

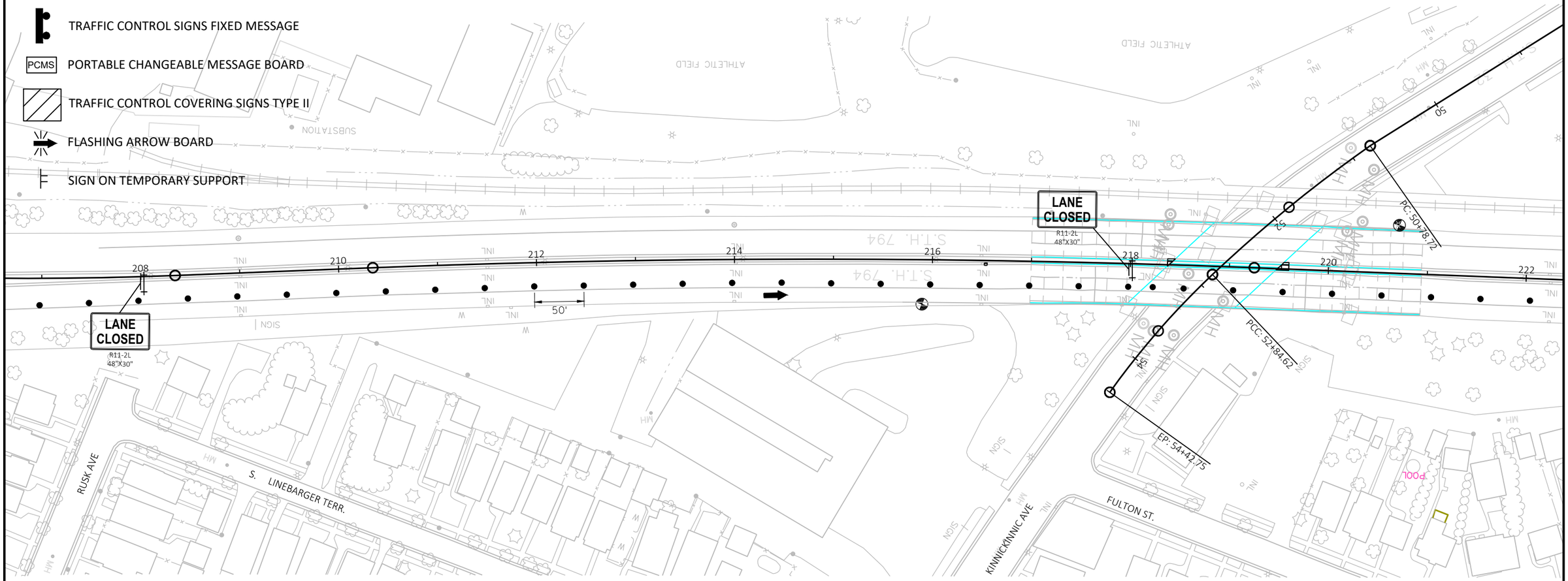
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - DAYTIME WORK	SHEET 160	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025505_TC.DWG
LAYOUT NAME - 025514_TC
PLOT DATE : 10/30/2020 10:11 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD
- SIGN ON TEMPORARY SUPPORT



NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - DAYTIME WORK	SHEET 161	E

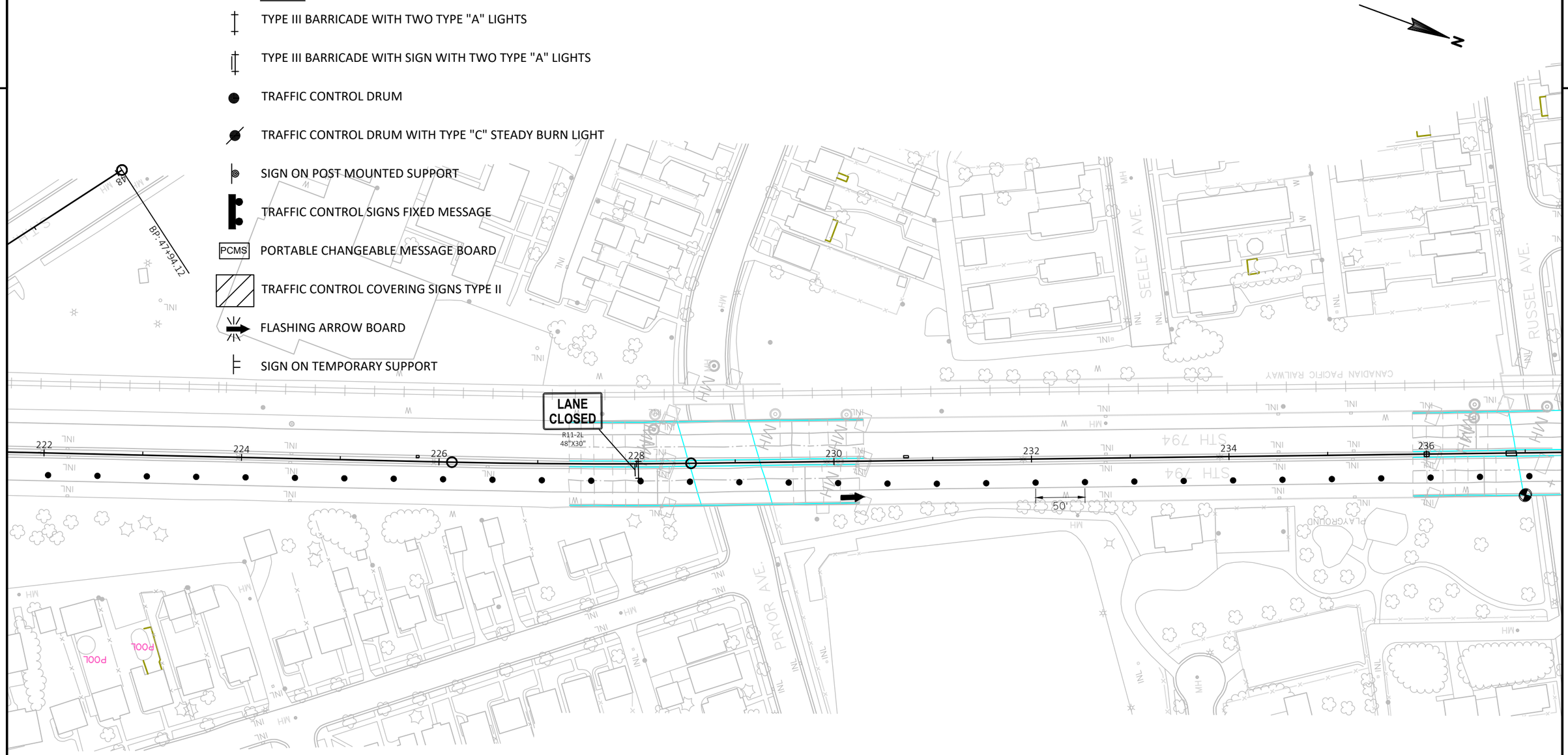
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LAYOUT NAME - 025515_TC
PLOT DATE : 10/30/2020 10:11 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD
- SIGN ON TEMPORARY SUPPORT



NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - DAYTIME WORK	SHEET 162	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025505_TC.DWG
LAYOUT NAME - 025516_TC

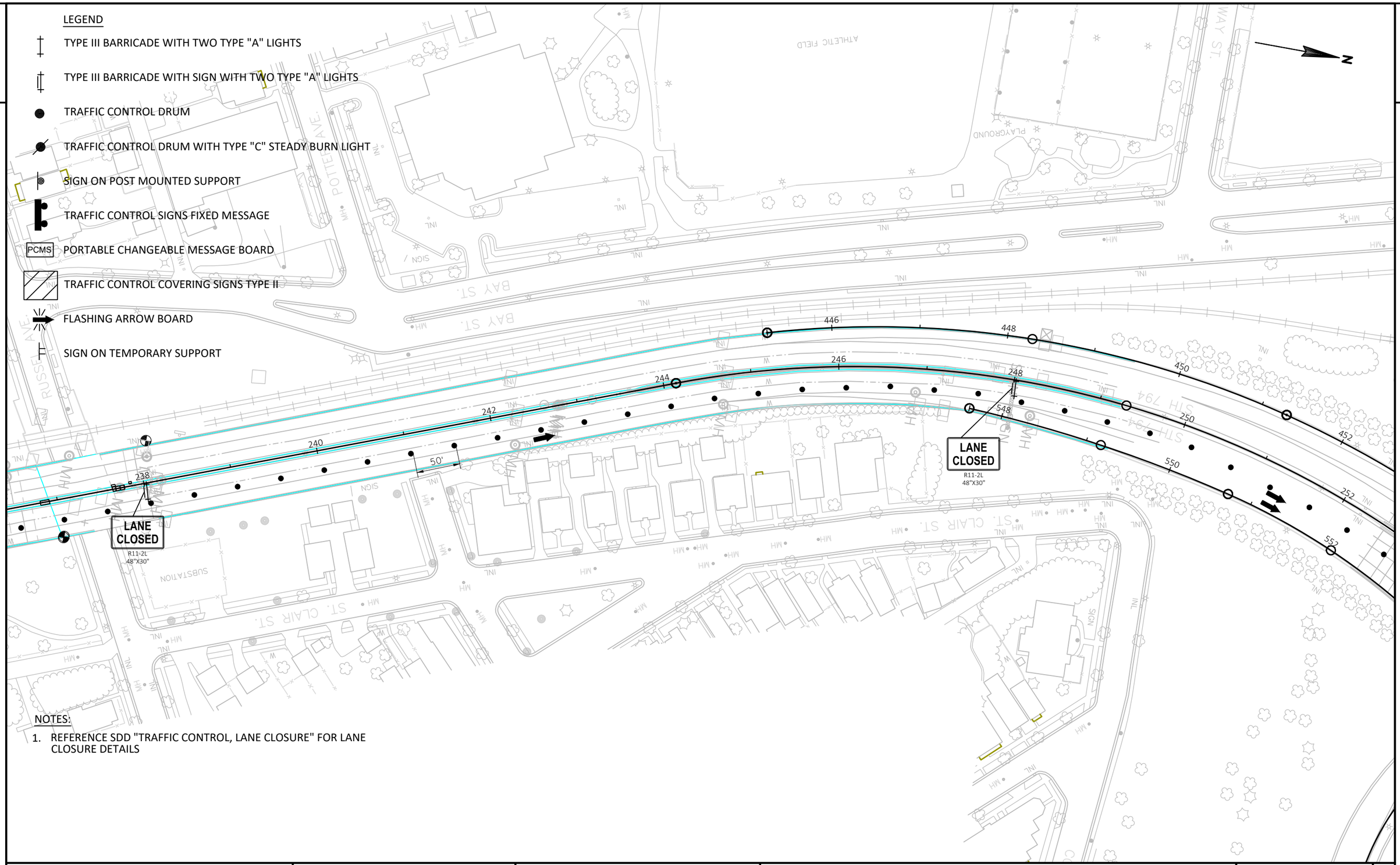
PLOT DATE : 10/30/2020 10:12 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD
- SIGN ON TEMPORARY SUPPORT



NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - DAYTIME WORK	SHEET 163	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025505_TC.DWG
LAYOUT NAME - 025517_TC

PLOT DATE : 10/30/2020 10:12 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD
- SIGN ON TEMPORARY SUPPORT

LANE CLOSED
R11-2L
48"X30"

END ROAD WORK
G20-2A
48"X24"

END ROAD WORK
G20-2A
48"X24"

NOTES:

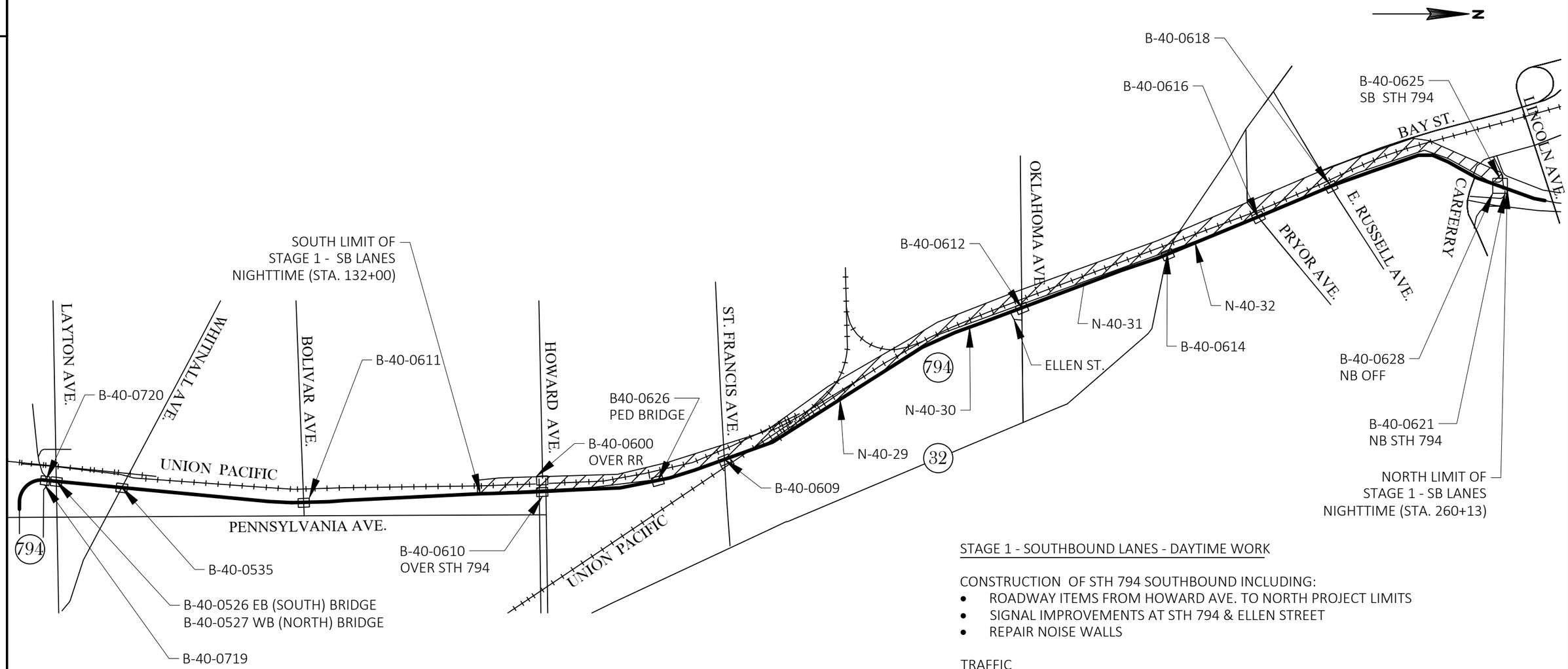
1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - NORTHBOUND LANES - DAYTIME WORK	SHEET 164	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025505_TC.DWG
LAYOUT NAME - 025518_TC

PLOT DATE : 10/30/2020 10:13 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



STAGE 1 - SOUTHBOUND LANES - DAYTIME WORK

CONSTRUCTION OF STH 794 SOUTHBOUND INCLUDING:

- ROADWAY ITEMS FROM HOWARD AVE. TO NORTH PROJECT LIMITS
- SIGNAL IMPROVEMENTS AT STH 794 & ELLEN STREET
- REPAIR NOISE WALLS

TRAFFIC

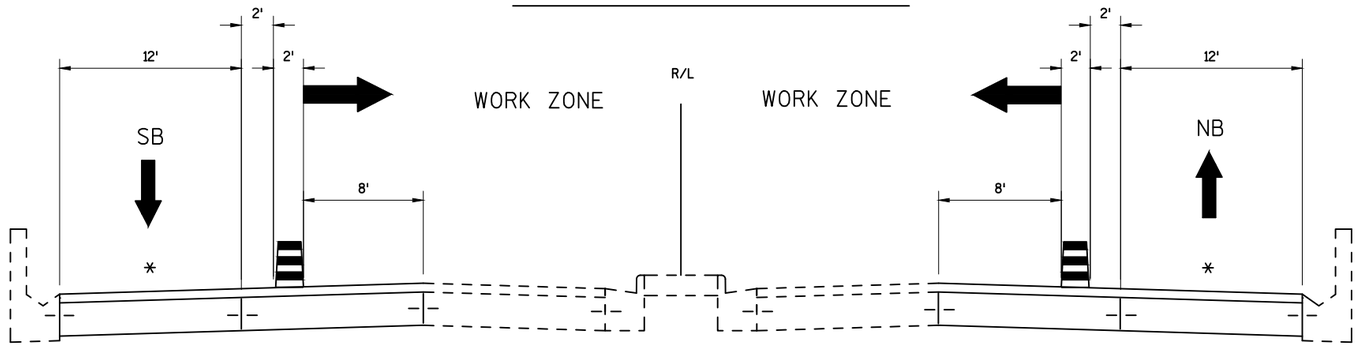
- MEDIAN LANE CLOSURE OF STH 794 SOUTHBOUND FROM PENNSYLVANIA AVE. TO PORT OF MILWAUKEE/CARFERRY DR. MAINTAIN A MINIMUM OF ONE LANE OPEN TO TRAFFIC AT ALL TIMES.
- MAINTAIN ACCESS TO STH 794 SOUTHBOUND AT PENNSYLVANIA AVE., HOWARD AVE., AND PORT OF MILWAUKEE/CARFERRY DR.
- CLOSE ELLEN STREET CONNECTION AT OKLAHOMA AVE TO STH 794.

▨ - WORK ZONE

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL OVERVIEW - STAGE 1 - SOUTHBOUND LANES - DAYTIME WORK	SHEET 165	E

2

NON-PEAK SINGLE LANE CLOSURE



STAGE 1 DAYTIME - TYPICAL SECTION

STH 794 NB & SB

STA. 132+00 TO STA. 260+13

TRAFFIC CONTROL DRUMS

NOTES:

ALL LANES TO BE OPEN DURING PEAK HOURS

ELLEN ST INTERSECTION TO BE CLOSED DURING STAGE 1

ALL PAVING TO BE COMPLETED DURING NIGHTTIME CLOSURES

* SHOULDER WIDTH VARIES 8'-16'
STA. 132+00 TO STA. 174+00

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - SOUTHBOUND LANES - DAYTIME WORK	SHEET 166	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025602_TC.DWG
LAYOUT NAME - STAGE 1 DAY

PLOT DATE : 10/30/2020 10:13 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : ##########

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL LANE CLOSURE" FOR LANE CLOSURE DETAILS

N

END ROAD WORK
G20-2A
48"X24"

BOLIVAR AVE.

EP: 54+06.77

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES DAYTIME WORK	SHEET 167	E

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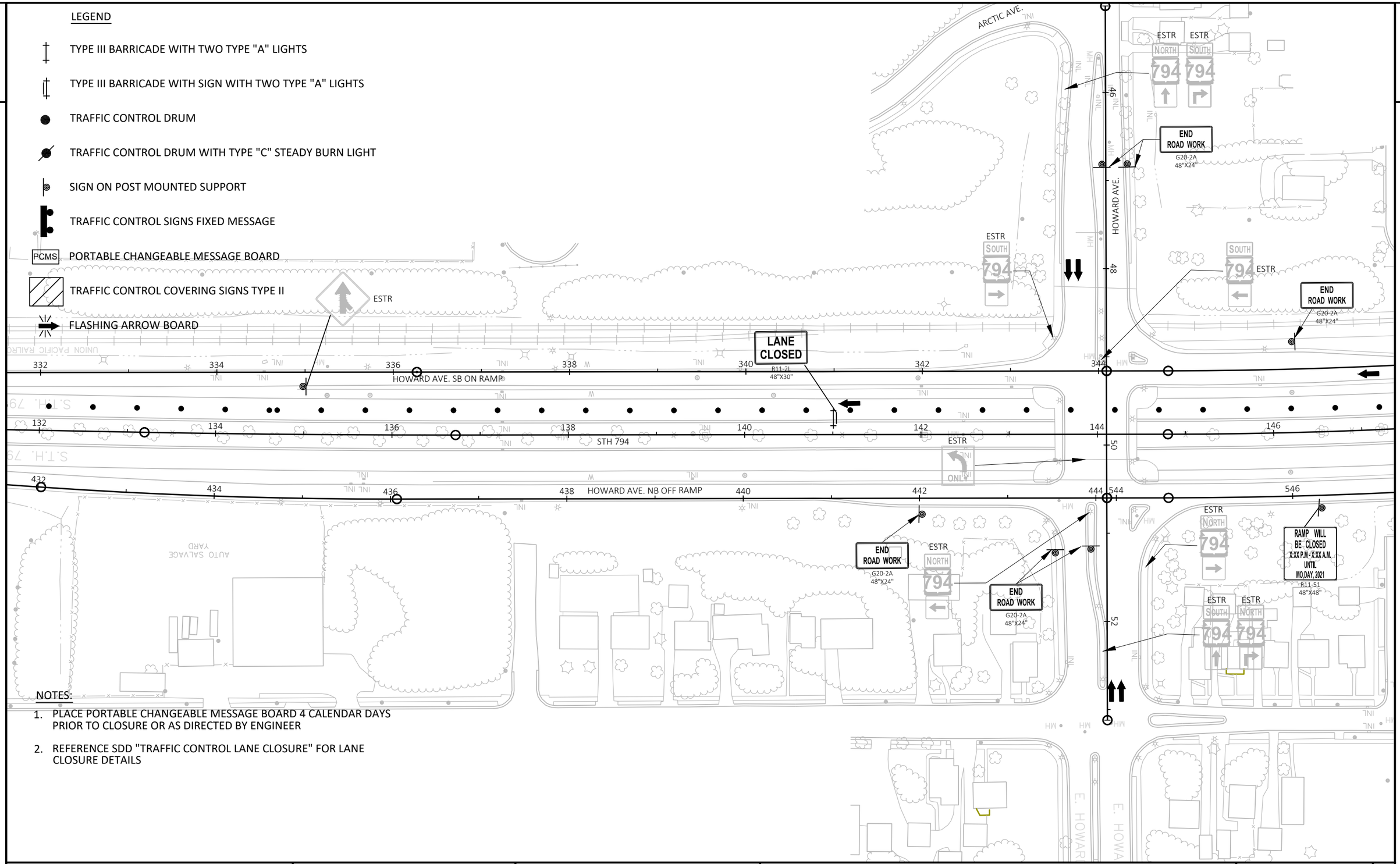
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WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD



NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE SDD "TRAFFIC CONTROL LANE CLOSURE" FOR LANE CLOSURE DETAILS

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES DAYTIME WORK	SHEET 168	E

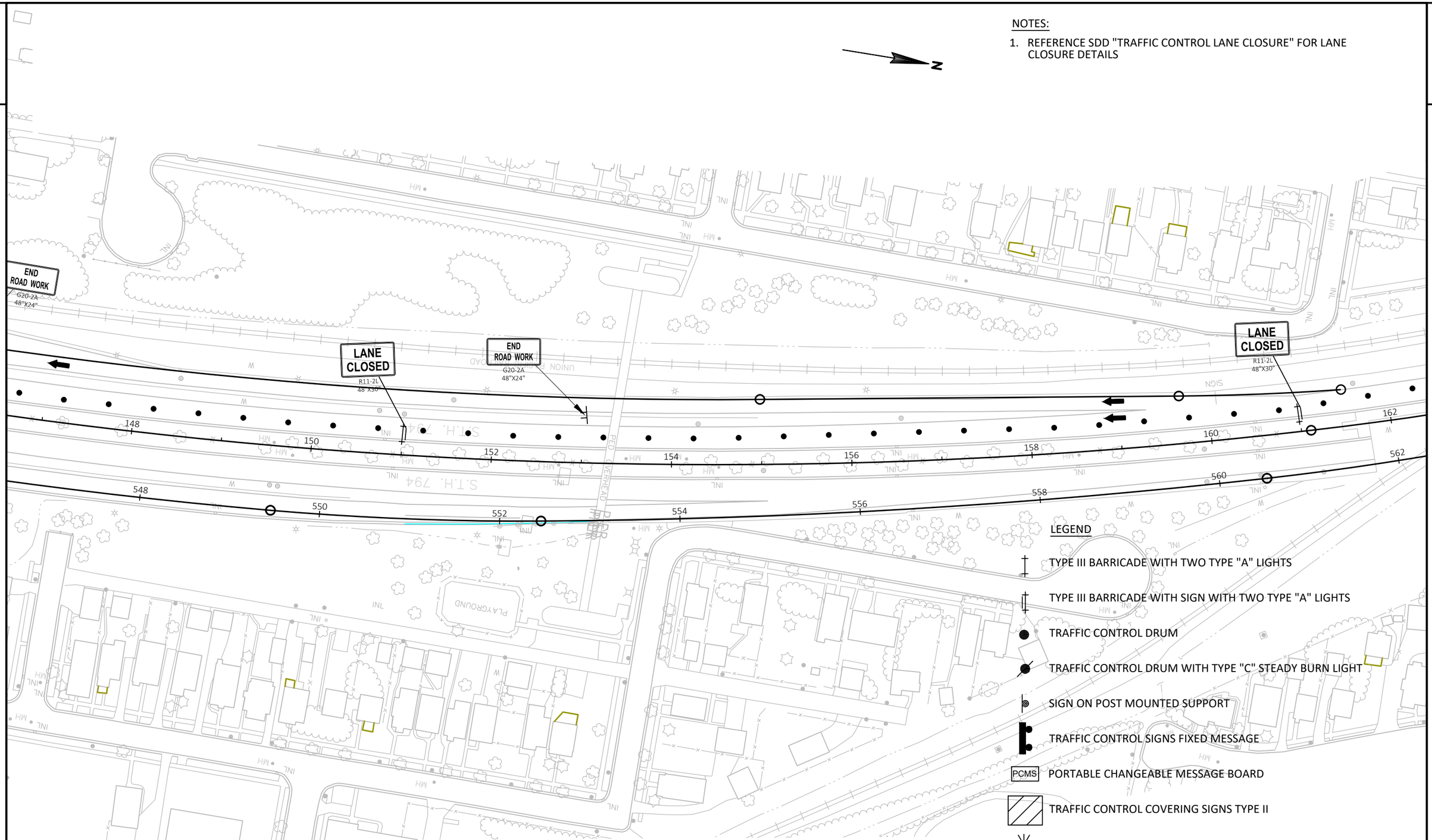
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LAYOUT NAME - 025606_tc

PLOT DATE : 10/30/2020 10:15 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL LANE CLOSURE" FOR LANE CLOSURE DETAILS



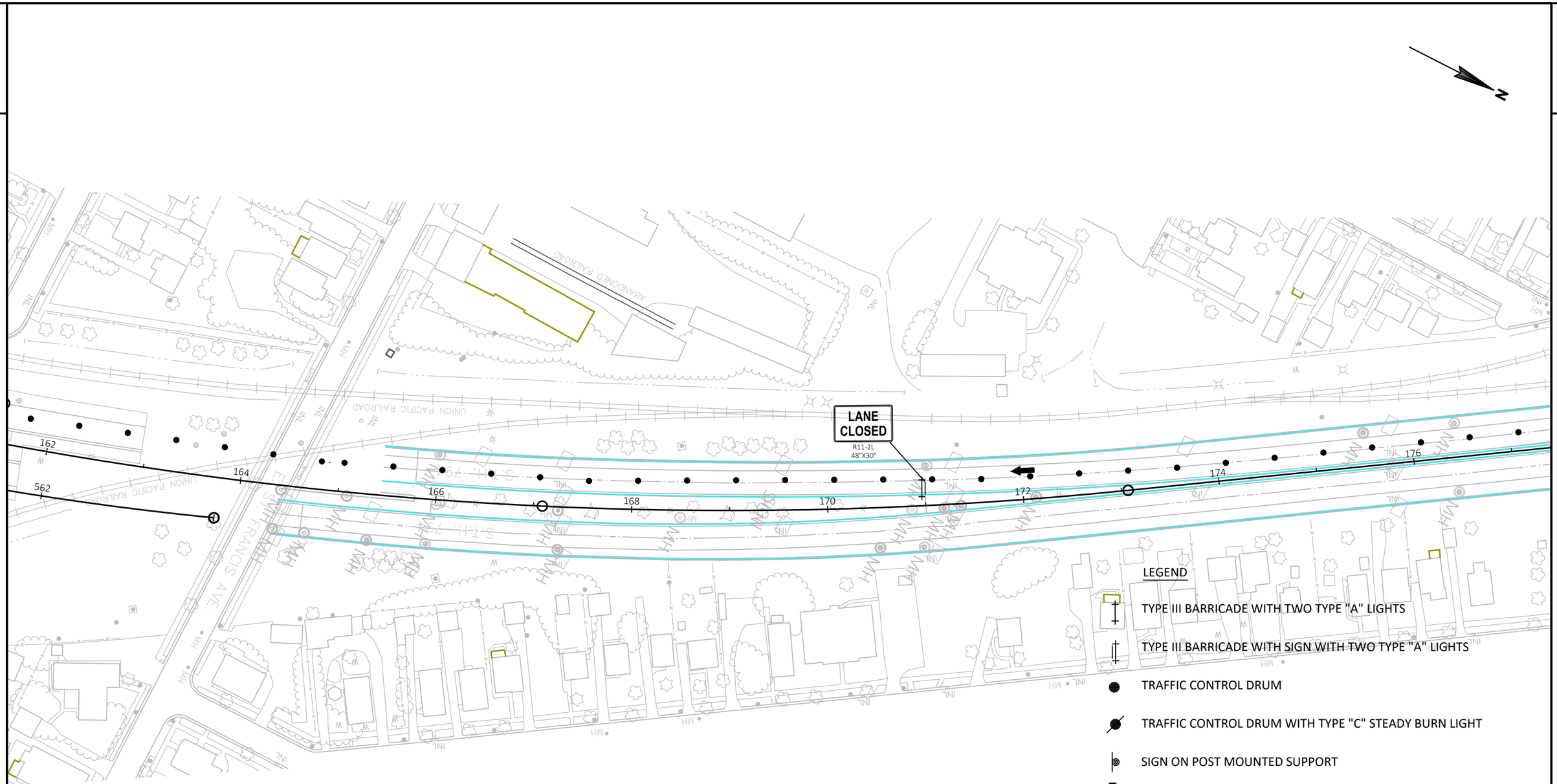
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES DAYTIME WORK	SHEET 169	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025605_TC.DWG
LAYOUT NAME - 025607_tc

PLOT DATE : 10/30/2020 10:15 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL LANE CLOSURE" FOR LANE CLOSURE DETAILS

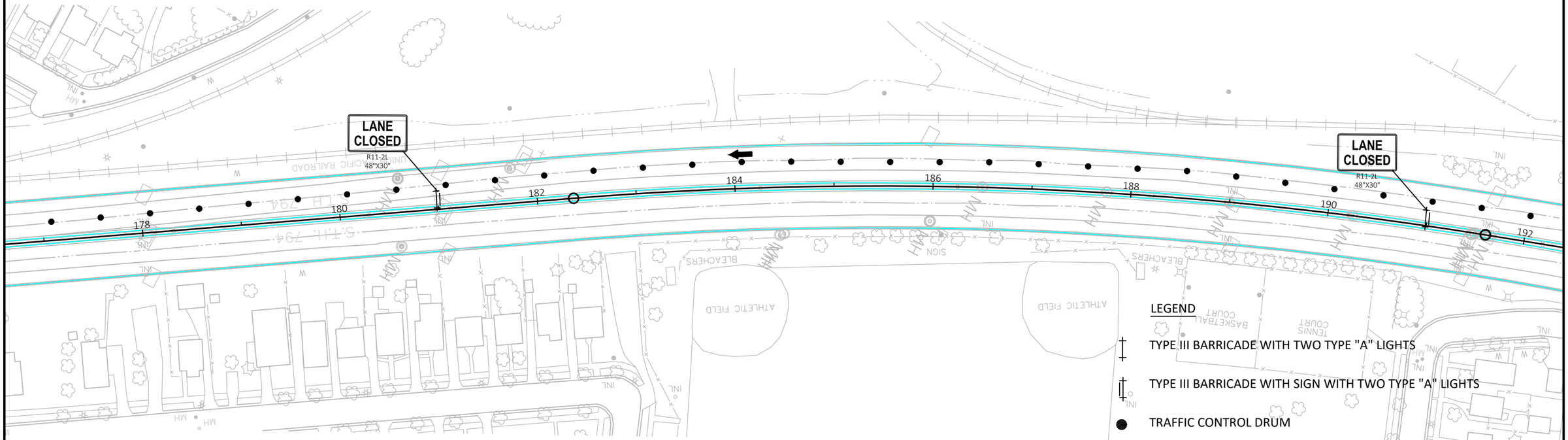
LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES DAYTIME WORK	SHEET 170	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025605_TC.DWG
LAYOUT NAME - 025608_tc
PLOT DATE : 10/30/2020 10:16 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL LANE CLOSURE" FOR LANE CLOSURE DETAILS

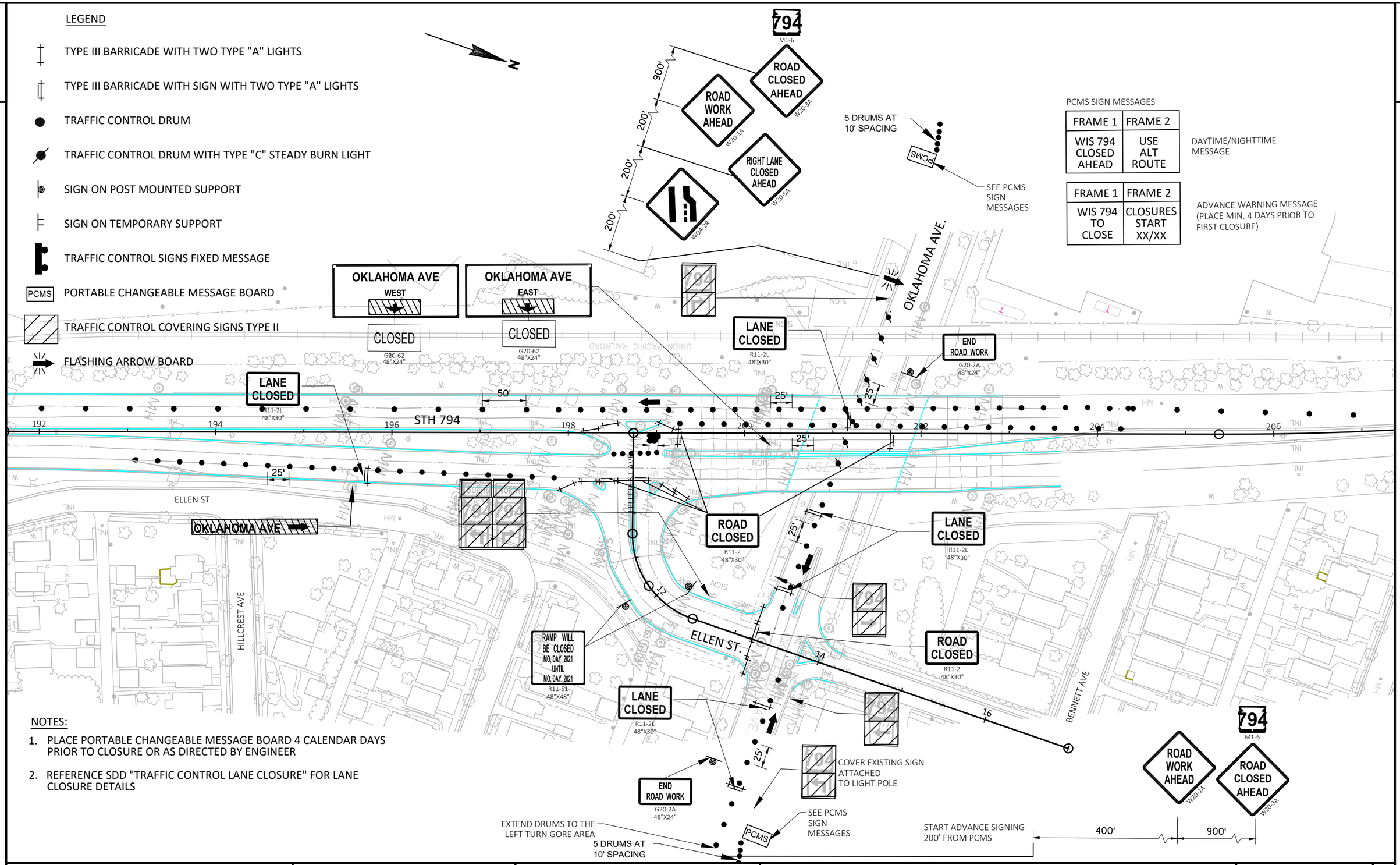
LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES DAYTIME WORK	SHEET 171	E

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD



NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE SDD "TRAFFIC CONTROL LANE CLOSURE" FOR LANE CLOSURE DETAILS

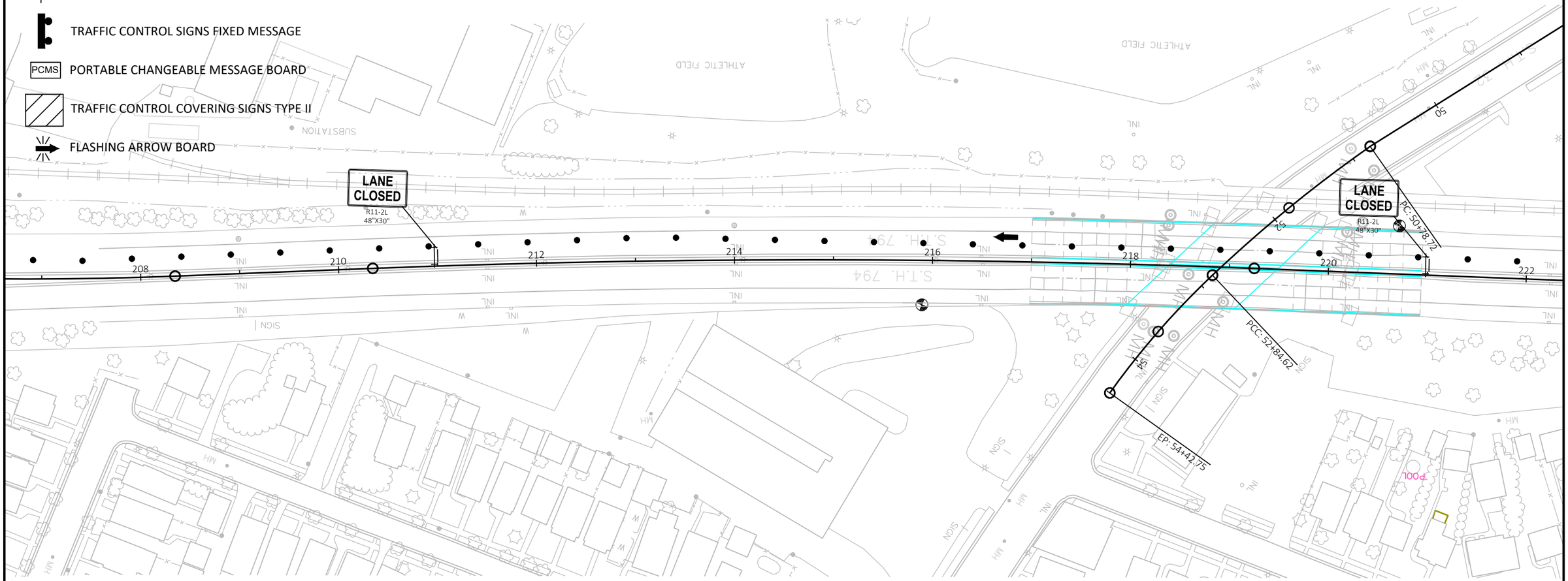
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES DAYTIME WORK	SHEET 172	E

2

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD



NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL LANE CLOSURE" FOR LANE CLOSURE DETAILS

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES DAYTIME WORK	SHEET 173	E

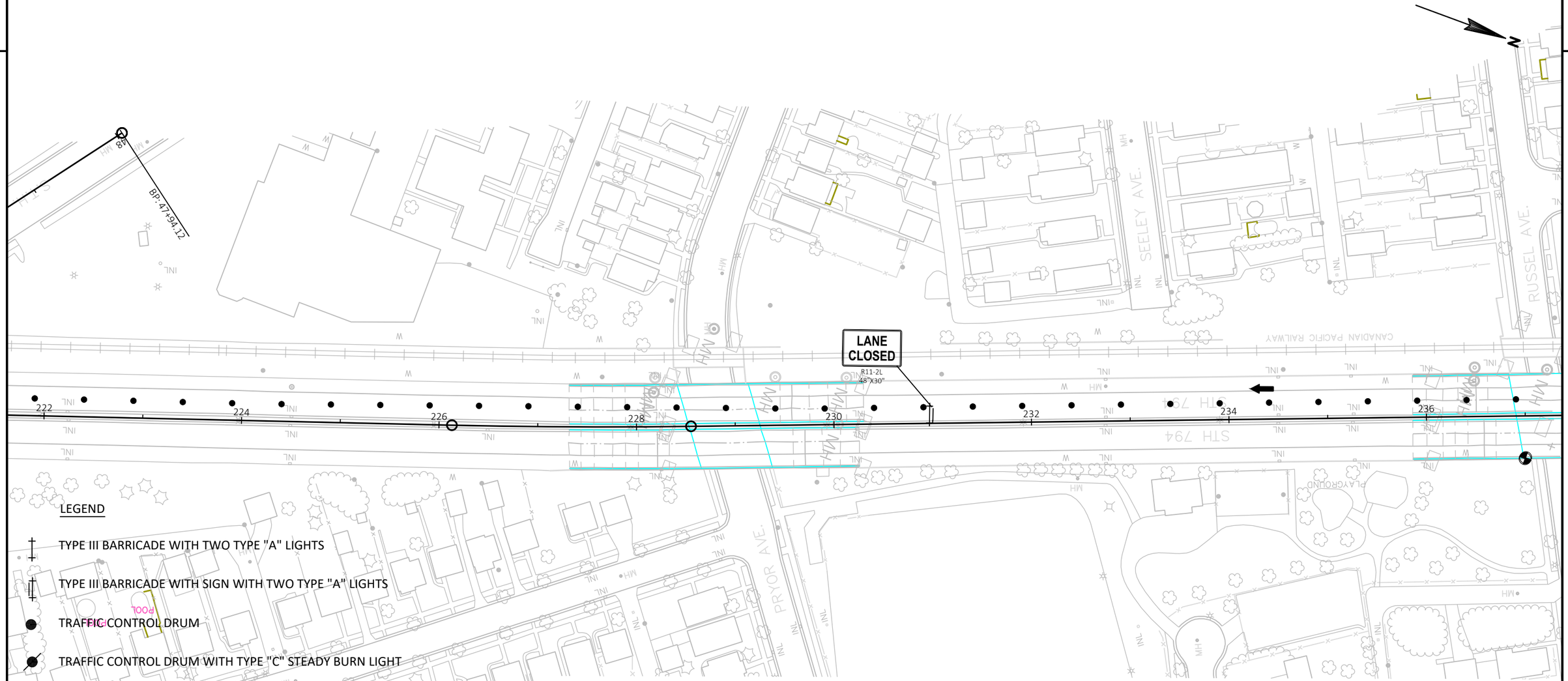
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LAYOUT NAME - 025611_tc

PLOT DATE : 10/30/2020 10:17 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL LANE CLOSURE" FOR LANE CLOSURE DETAILS



LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES DAYTIME WORK	SHEET 174	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025605_TC.DWG
LAYOUT NAME - 025612_tc
PLOT DATE : 10/30/2020 10:17 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

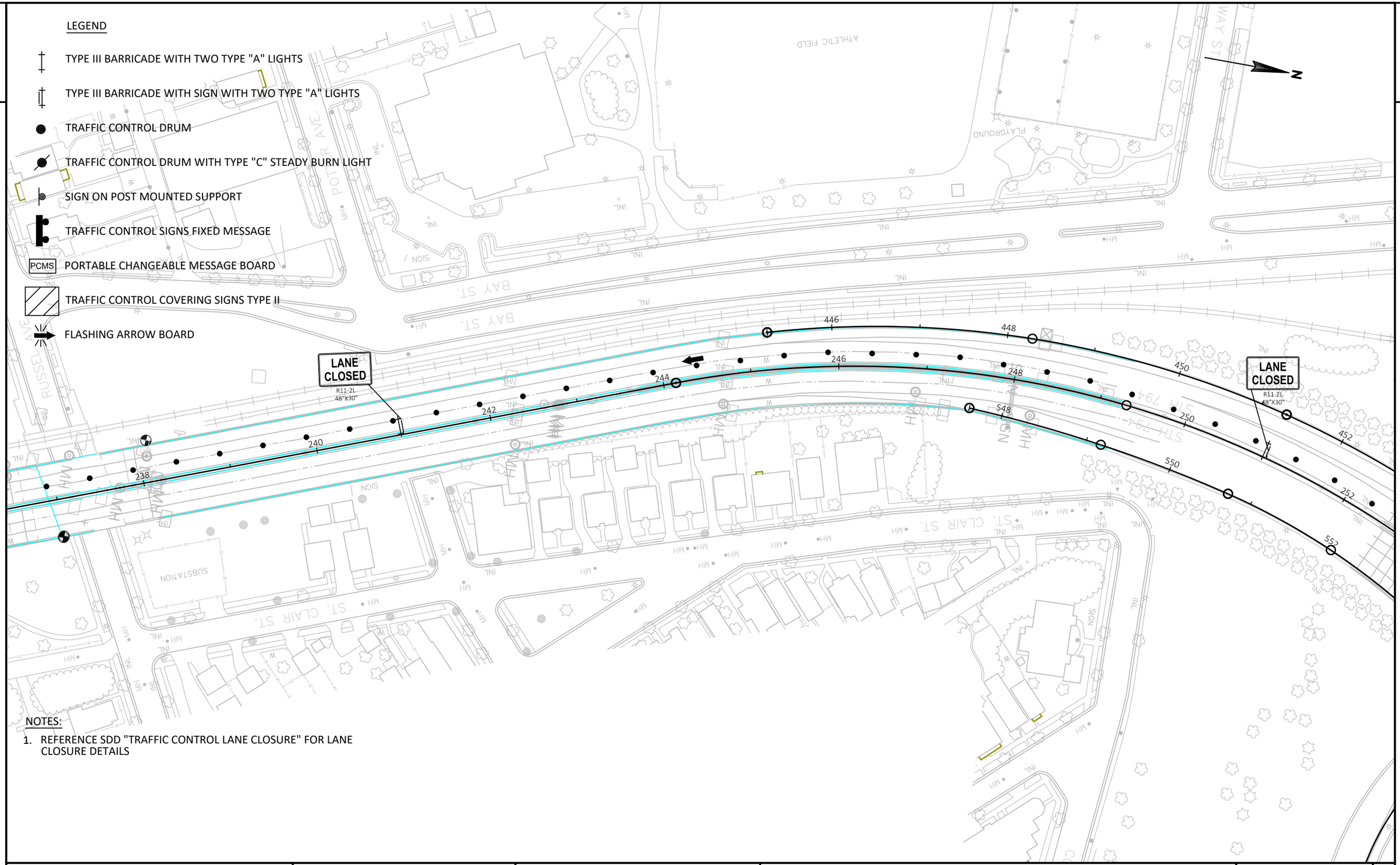
WISDOT/CADDS SHEET 42

2

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD



NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL LANE CLOSURE" FOR LANE CLOSURE DETAILS

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES DAYTIME WORK	SHEET 175	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025605_TC.DWG
LAYOUT NAME - 025613_tc

PLOT DATE : 10/30/2020 10:18 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE SDD "TRAFFIC CONTROL LANE CLOSURE" FOR LANE CLOSURE DETAILS

CAREFERRY DRIVE

LINCOLN AVE. VIADUCT

STH 794

ROAD WORK AHEAD
W20-1A

LANE CLOSED
R11-2L
48"X30"

S. LINCOLN MEMORIAL DR.

LEGEND

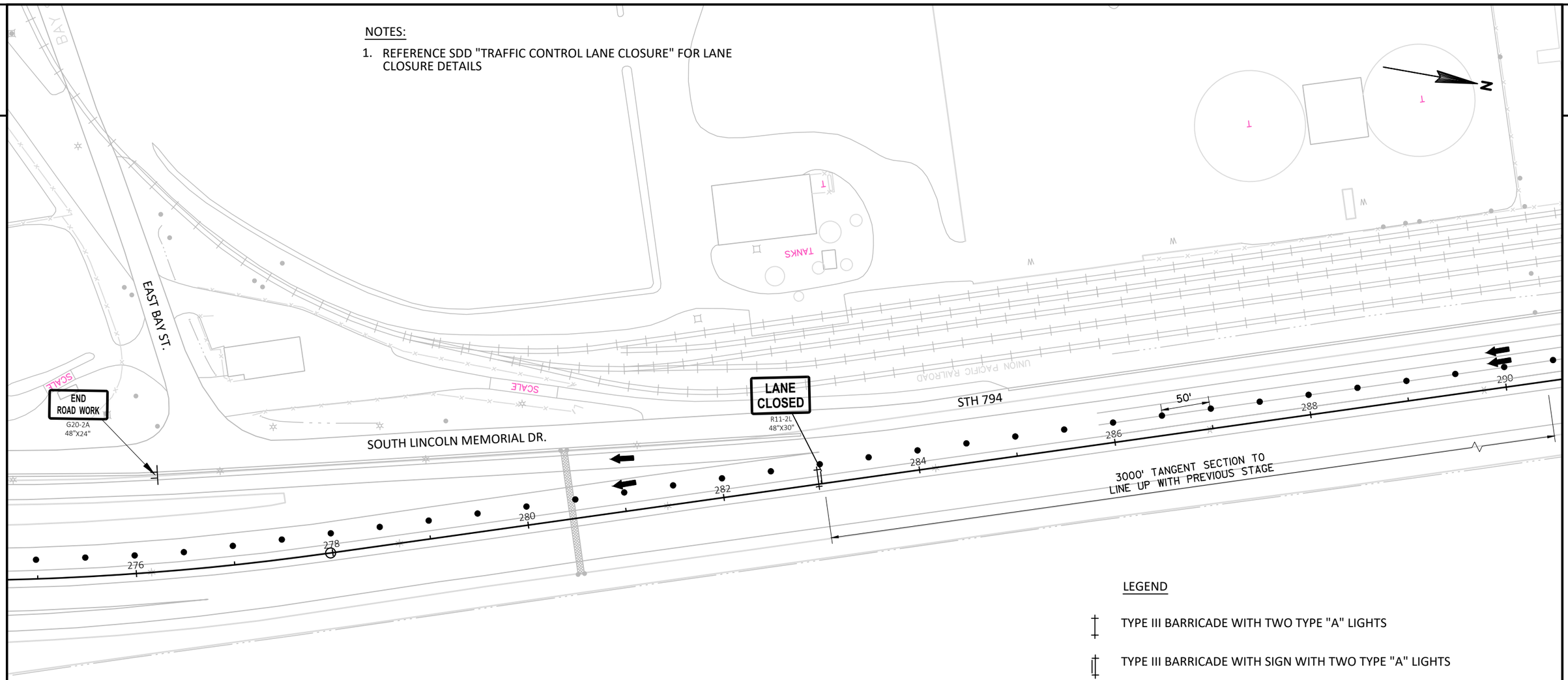
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES DAYTIME WORK	SHEET 176	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025605_TC.DWG
LAYOUT NAME - 025614_tc
PLOT DATE : 10/30/2020 10:18 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL LANE CLOSURE" FOR LANE CLOSURE DETAILS



LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

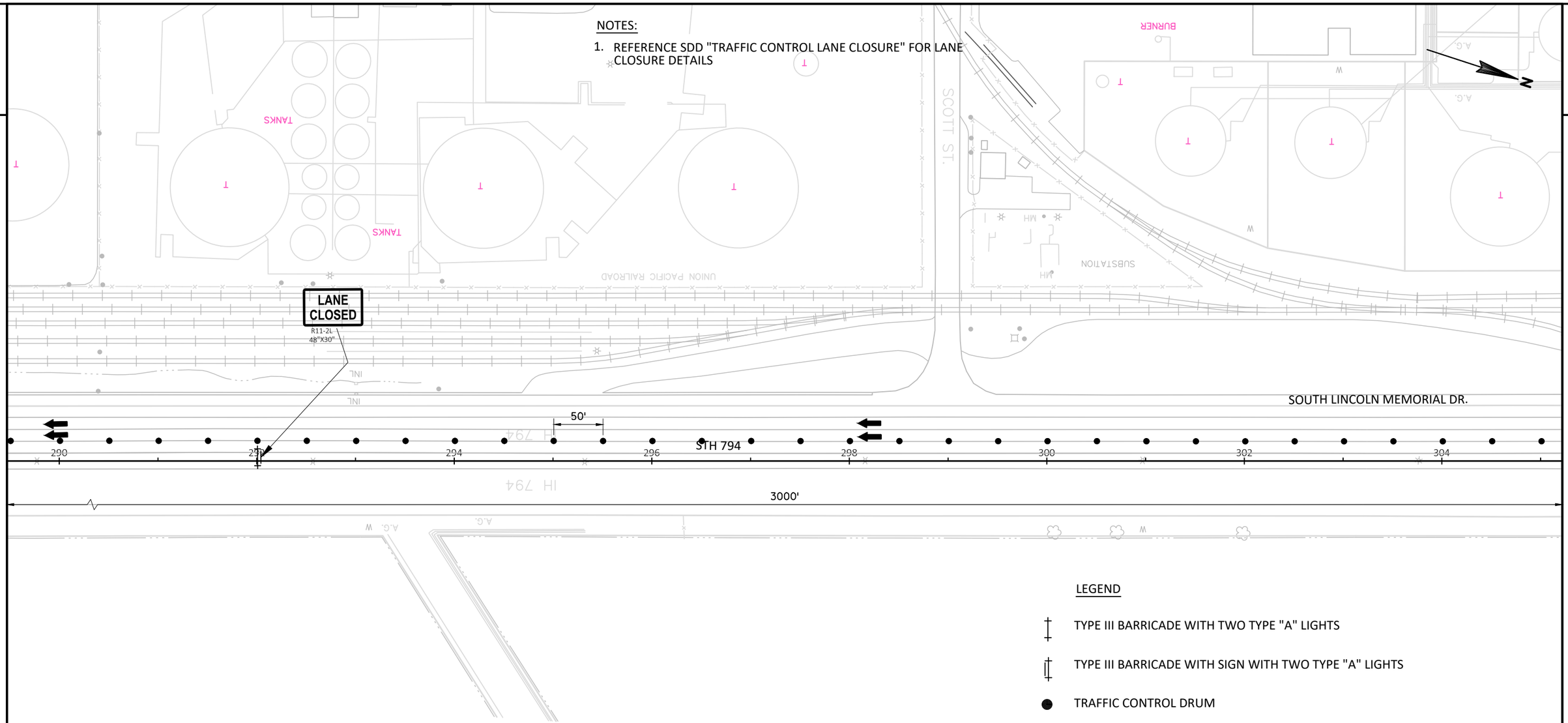
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES DAYTIME WORK	SHEET 177	E

2

2

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL LANE CLOSURE" FOR LANE CLOSURE DETAILS



LEGEND

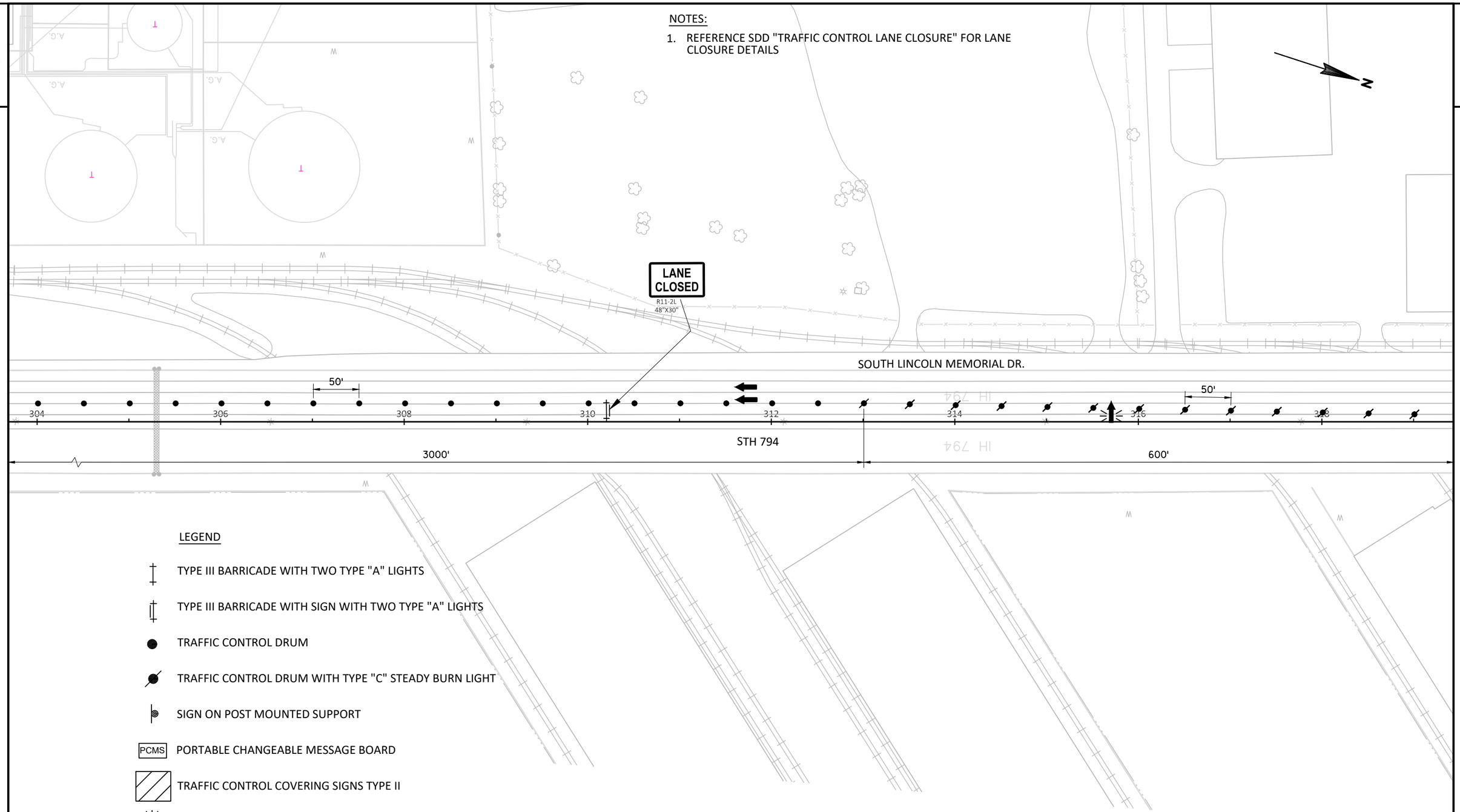
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES DAYTIME WORK	SHEET 178	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025605_TC.DWG
LAYOUT NAME - 025616_tc
PLOT DATE : 10/30/2020 10:19 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL LANE CLOSURE" FOR LANE CLOSURE DETAILS



LEGEND

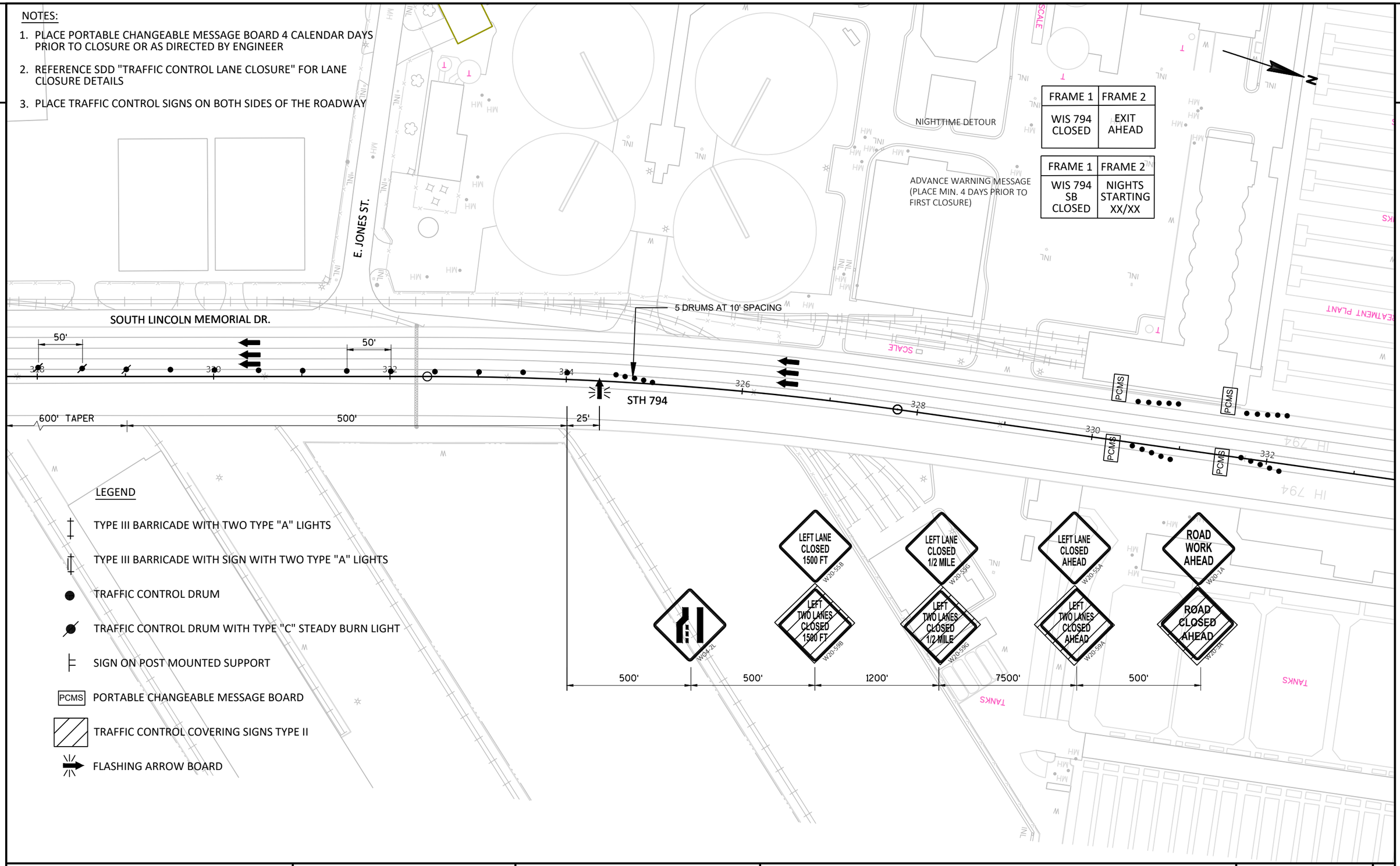
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES DAYTIME WORK	SHEET 179	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025605_TC.DWG
LAYOUT NAME - 025617_tc
PLOT DATE : 10/30/2020 10:19 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE SDD "TRAFFIC CONTROL LANE CLOSURE" FOR LANE CLOSURE DETAILS
3. PLACE TRAFFIC CONTROL SIGNS ON BOTH SIDES OF THE ROADWAY



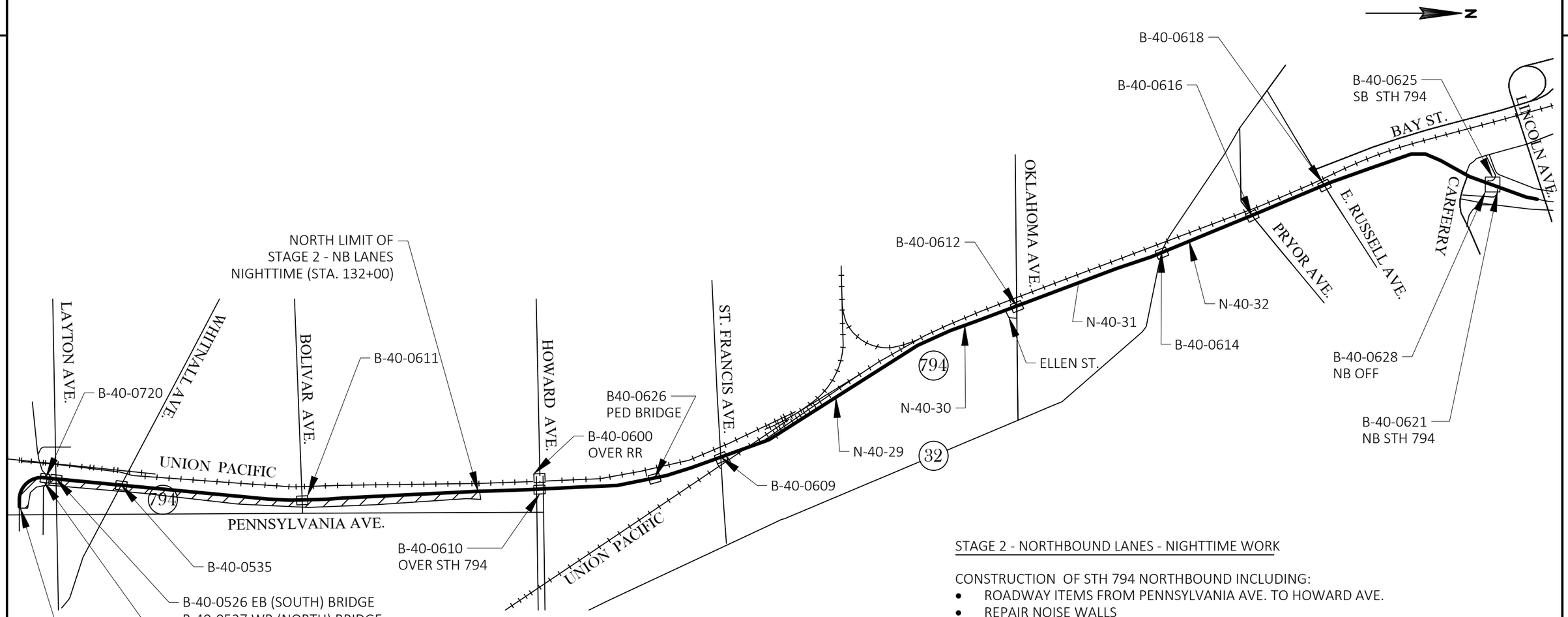
LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 SOUTHBOUND LANES DAYTIME WORK	SHEET 180	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025605_TC.DWG
LAYOUT NAME - 025618_tc
PLOT DATE : 10/30/2020 10:20 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



STAGE 2 - NORTHBOUND LANES - NIGHTTIME WORK

CONSTRUCTION OF STH 794 NORTHBOUND INCLUDING:

- ROADWAY ITEMS FROM PENNSYLVANIA AVE. TO HOWARD AVE.
- REPAIR NOISE WALLS

TRAFFIC

- CLOSE STH 794 NORTHBOUND FROM PENNSYLVANIA AVE. TO HOWARD AVE.
- CLOSE ACCESS TO STH 794 NORTHBOUND AT PENNSYLVANIA AVE., LAYTON AVE., AND ALL HOWARD AVE. RAMPS EXCEPT THE NORTHBOUND ON-RAMP.

- WORK ZONE

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL OVERVIEW - STAGE 2 - NORTHBOUND LANES - NIGHTTIME WORK	SHEET 181	E

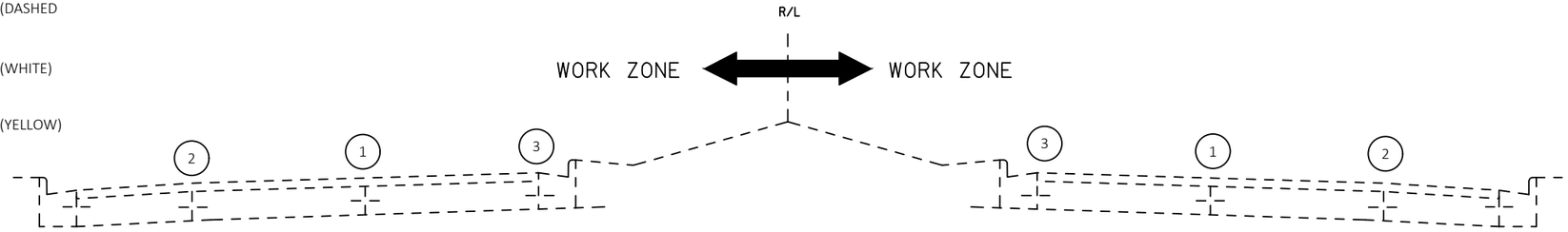
FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025701_TC.DWG
LAYOUT NAME - 01
PLOT DATE : 10/30/2020 10:20 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

TEMPORARY MARKING LEGEND

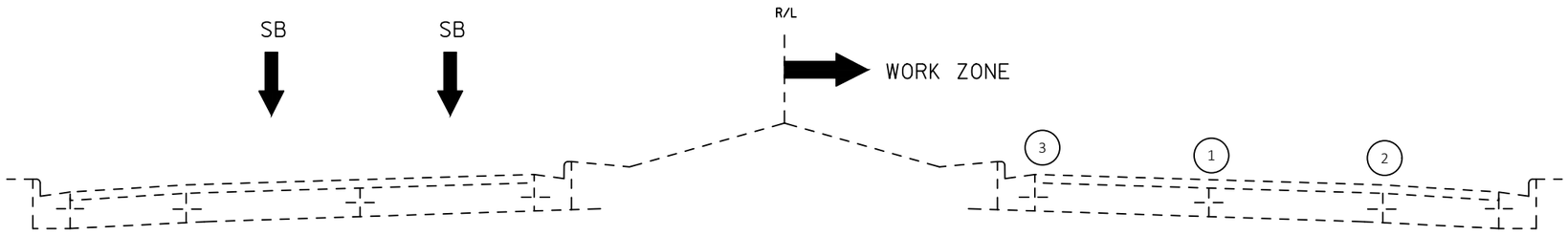
1. TEMPORARY MARKING LINE PAINT 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
2. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
3. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)

PAVEMENT MARKING NOTES:

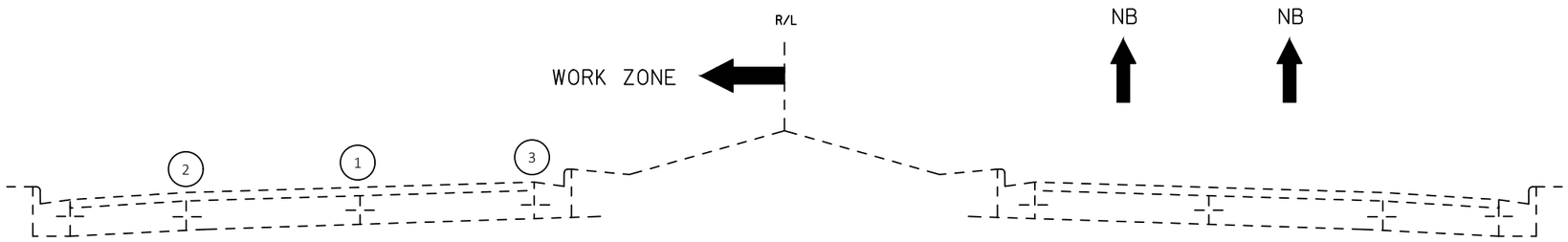
PLACE TEMPORARY MARKINGS PRIOR TO REOPENING THE ROADWAY AFTER NIGHTTIME CLOSURES. TEMPORARY MARKING REQUIRED FOR BOTH THE LOWER AND UPPER LAYERS OF ASPHALT.



STAGE 2 NIGHTTIME WORK TYPICAL SECTION
STH 794 - NB & SB DETOUR
STA. 58+51 TO STA. 132+00



STAGE 2 NIGHTTIME WORK TYPICAL SECTION
STH 794 - NB DETOUR ONLY
STA. 58+51 TO STA. 132+00



STAGE 2 NIGHTTIME WORK TYPICAL SECTION
STH 794 - SB DETOUR ONLY
STA. 58+51 TO STA. 132+00

NOTES:

RAMPS WITHIN PROJECT LIMITS WORK ZONE ARE CLOSED EXCEPT FOR CARFERRY DR RAMPS

ELLEN ST. TO BE CLOSED DURING NIGHTTIME CLOSURES

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. PORTABLE CHANGEABLE MESSAGE BOARD TO USE THE FOLLOWING MESSAGES:

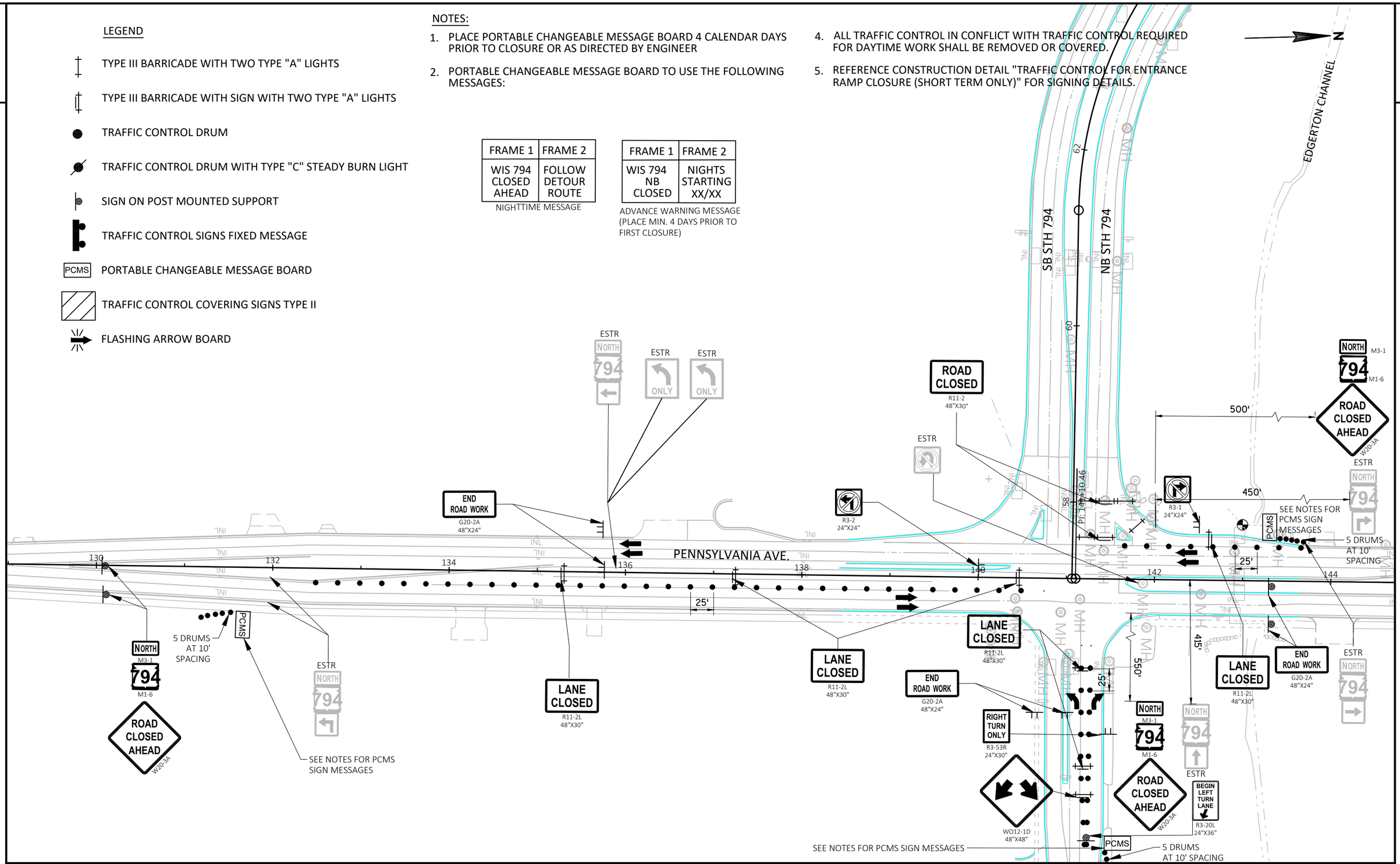
FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	FOLLOW DETOUR ROUTE

NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 NB CLOSED	NIGHTS STARTING XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

4. ALL TRAFFIC CONTROL IN CONFLICT WITH TRAFFIC CONTROL REQUIRED FOR DAYTIME WORK SHALL BE REMOVED OR COVERED.
5. REFERENCE CONSTRUCTION DETAIL "TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE (SHORT TERM ONLY)" FOR SIGNING DETAILS.



PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - NORTHBOUND LANES - NIGHTTIME WORK	SHEET 183	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025705_TC.DWG
LAYOUT NAME - 025705_tc
PLOT DATE : 10/30/2020 10:22 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE CONSTRUCTION DETAIL "TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE (SHORT TERM ONLY)" FOR SIGNING DETAILS.
3. PORTABLE CHANGEABLE MESSAGE BOARD TO USE THE FOLLOWING MESSAGES:

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	USE DETOUR ROUTE

WB NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	USE ALT ROUTE

EB NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 NB CLOSED	NIGHTS STARTING XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

4. ALL TRAFFIC CONTROL IN CONFLICT WITH TRAFFIC CONTROL REQUIRED FOR DAYTIME WORK SHALL BE REMOVED OR COVERED.

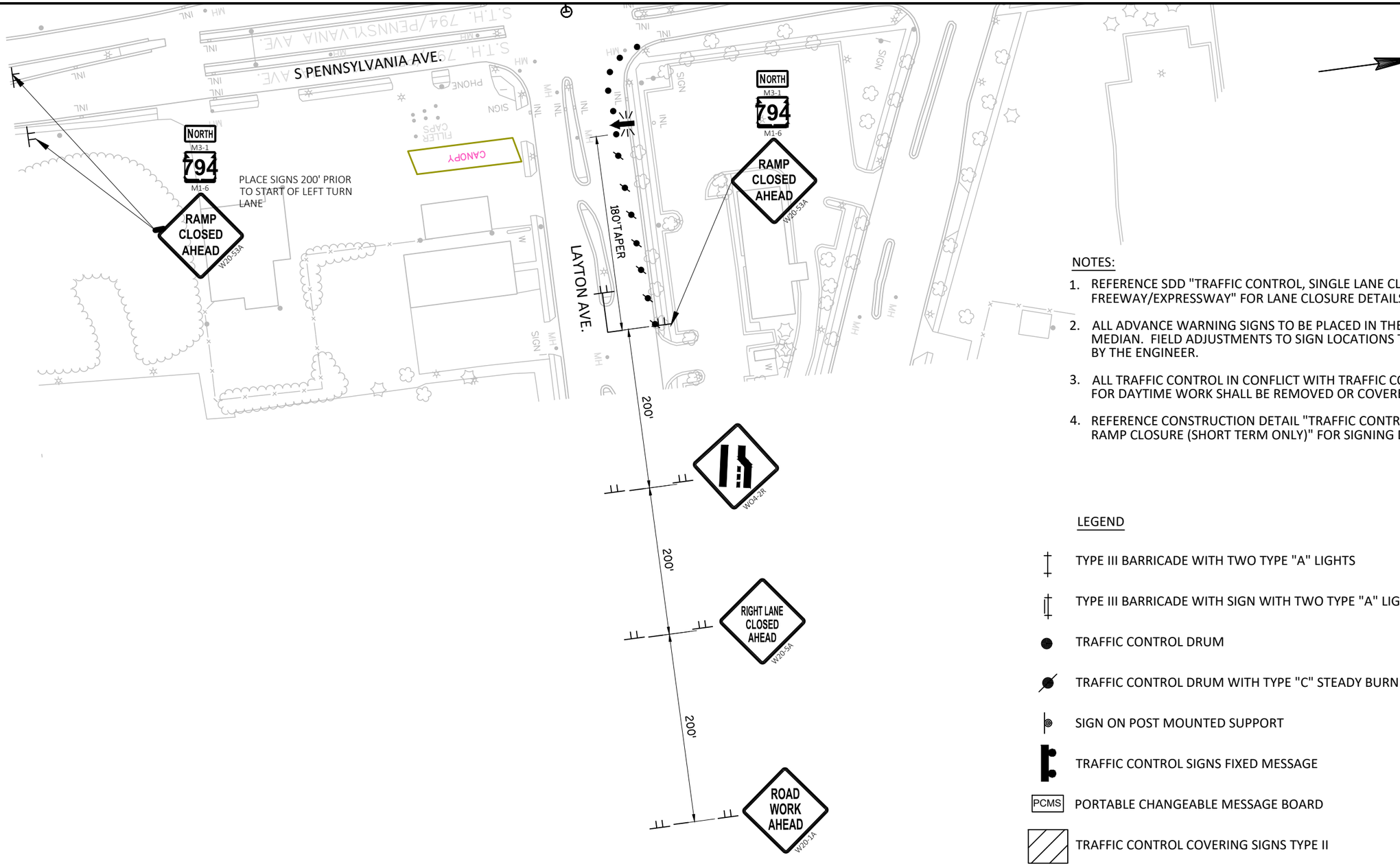
ROAD WORK AHEAD W20-2A
NORTH M3-1 794 M1-6
RAMP CLOSED AHEAD W20-53A
LEFT LANE CLOSED AHEAD W20-5SA
200'
200'
PLACE IN THE TERRACE AND THE MEDIAN AT THE EAST SIDE OF THE INTERSECTION OF S. AHMEDI AVE.
5 DRUMS AT 10' SPACING
SEE PCMS SIGN NOTES
PCMS
END ROAD WORK G20-2A 48"X24"
ESTR NORTH 794
R3-2 24"X24"
494
25'
LANE CLOSED R11-2L 48"X30"
88
90
92
94
96
98
100
102
192
194
196
198
200
202
SB STH 794
NB STH 794
50
496
MH
MH
MH
492
494
496
498
500
502
ESTR NORTH 794
RAMP CLOSED R11-2R 48"X30"
END ROAD WORK G20-2A 48"X24"
SEE PCMS SIGN NOTES
LANE CLOSED R11-2L 48"X30"
LAYTON AVE.
498
500
25'
25'
25'
RAMP WILL BE CLOSED X:XX P.M. - X:XX A.M. UNTIL MO. DAY R11-51 48"X48"
R3-1 24"X24"
NORTH M3-1 794 M1-6
RAMP CLOSED AHEAD W20-53A
ESTR NORTH 794
PCMS
5 DRUMS AT 10' SPACING
WHITNALL AVE.
54
56
S PENNSYLVANIA AVE.
PENNSYLVANIA AVE.
S.T.H. 794/PENNSYLVANIA

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - NORTHBOUND LANES - NIGHTTIME WORK	SHEET 184	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025705_TC.DWG
LAYOUT NAME - 025706_tc
PLOT DATE : 10/30/2020 10:22 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42



NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" FOR LANE CLOSURE DETAILS
2. ALL ADVANCE WARNING SIGNS TO BE PLACED IN THE TERRACE AND THE MEDIAN. FIELD ADJUSTMENTS TO SIGN LOCATIONS TO BE APPROVED BY THE ENGINEER.
3. ALL TRAFFIC CONTROL IN CONFLICT WITH TRAFFIC CONTROL REQUIRED FOR DAYTIME WORK SHALL BE REMOVED OR COVERED.
4. REFERENCE CONSTRUCTION DETAIL "TRAFFIC CONTROL, FOR ENTRANCE RAMP CLOSURE (SHORT TERM ONLY)" FOR SIGNING DETAILS.

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - NORTHBOUND LANES - NIGHTTIME WORK	SHEET 185	E

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PLACE SIGN ON THE EASTBOUND, NORTHBOUND AND SOUTHBOUND LEGS OF THE INTERSECTION OF S. CLEMENT.

794 M1-6
ROAD CLOSED AHEAD W20-3A

900' 200' 200' 200'

ROAD WORK AHEAD W20-1A

794 M1-6 24"X24"
ROAD CLOSED AHEAD W20-3A

RIGHT LANE CLOSED AHEAD W20-5A

W04-JR

5 DRUMS AT 10' SPACING

PCMS

SEE PCMS SIGN MESSAGES

PCMS SIGN MESSAGES

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	USE ALT ROUTE

NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 TO CLOSE	CLOSURES START XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

N

5 DRUMS AT 10' SPACING

OKLAHOMA AVE.

END ROAD WORK G20-2A 48"X24"

180' TAPER

LANE CLOSED R11-2L 48"X30"

STH 794

192 194 196 198 200 202 204 206

25'

EXTEND CONES TO END OF LEFT TURN LANE

CLOSE NB RIGHT TURN LANE IF NORTHBOUND FULL CLOSURE IS NOT IN PLACE

ROAD CLOSED R11-2 48"X30"

LANE CLOSED R11-2L 48"X30"

25'

ELLEN ST.

12 14 16

SEE SPECIFICATIONS FOR ALLOWABLE NIGHTTIME CLOSURE HOURS AND DATES

RAMP WILL BE CLOSED XX:XX PM TO XX:XX A.M STARTING XX/XX/XX
R11-51 48"X48"

ROAD CLOSED R11-2 48"X30"

PLACE SIGN ON THE WESTBOUND, NORTHBOUND AND SOUTHBOUND LEGS OF THE INTERSECTION OF S. KINNICKINNIC AVE.

794 M1-6 24"X24"

ROAD WORK AHEAD W20-1A

ROAD CLOSED AHEAD W20-3A

LANE CLOSED R11-2L 48"X30"

END ROAD WORK G20-2A 48"X24"

EXTEND DRUMS TO THE LEFT TURN GORE AREA

5 DRUMS AT 10' SPACING

PCMS

SEE PCMS SIGN MESSAGES

START ADVANCE SIGNING 200' FROM BEGINNING OF TURN LANE CLOSURE

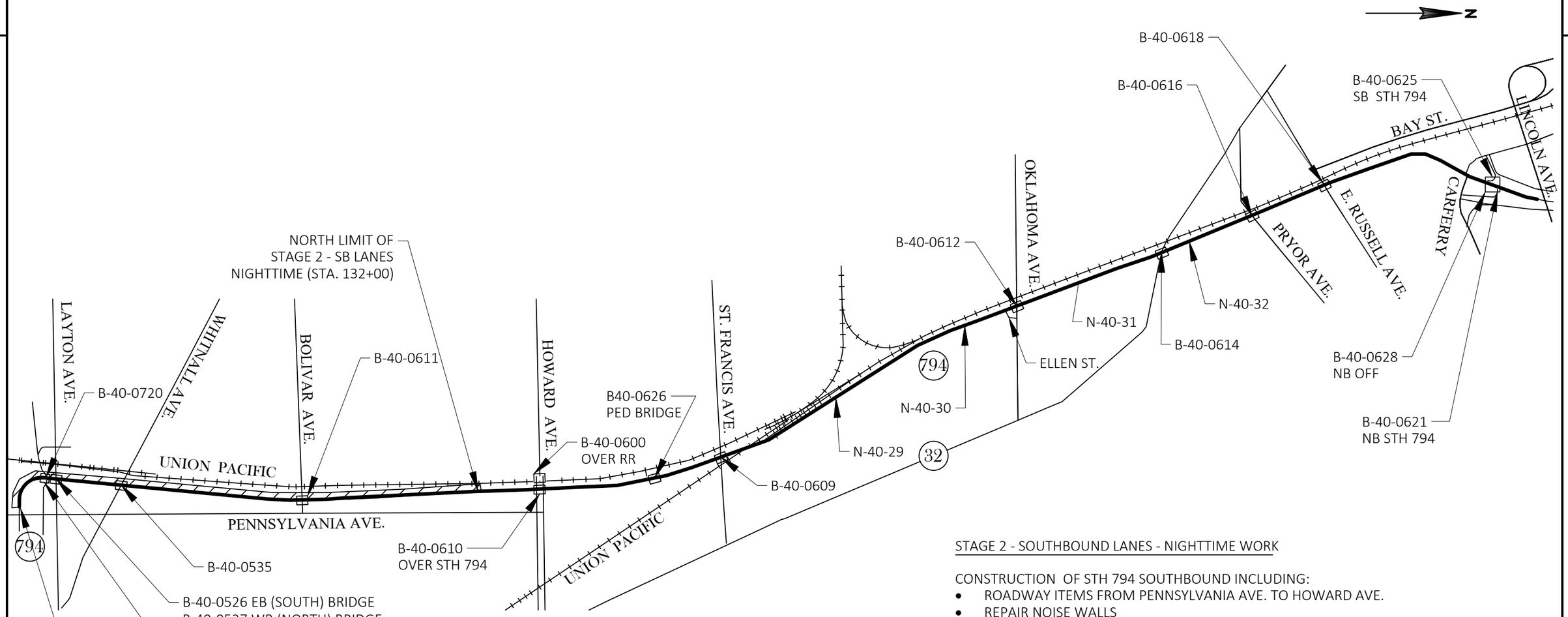
400' 900'

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" FOR LANE CLOSURE DETAILS

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - NORTHBOUND LANES - NIGHTTIME WORK	SHEET 186	E

2



STAGE 2 - SOUTHBOUND LANES - NIGHTTIME WORK

CONSTRUCTION OF STH 794 SOUTHBOUND INCLUDING:

- ROADWAY ITEMS FROM PENNSYLVANIA AVE. TO HOWARD AVE.
- REPAIR NOISE WALLS

TRAFFIC

- CLOSE STH 794 SOUTHBOUND FROM PENNSYLVANIA AVE. TO HOWARD AVE.
- CLOSE ACCESS TO STH 794 SOUTHBOUND AT PENNSYLVANIA AVE., LAYTON AVE., HOWARD AVE.
- TRAFFIC CONTROL SIGNING TO DIRECT DETOUR ROUTE TO EXIT AT CARFERRY DR. AND USE THE SIGNED DETOUR.
- ACCESS TO THE SOUTHBOUND OFF RAMP AT HOWARD AVE. TO BE MAINTAINED.

▨ - WORK ZONE

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL OVERVIEW - STAGE 2 - SOUTHBOUND LANES - NIGHTTIME WORK	SHEET 187	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025801_TC.DWG
LAYOUT NAME - 01
PLOT DATE : 10/30/2020 10:24 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

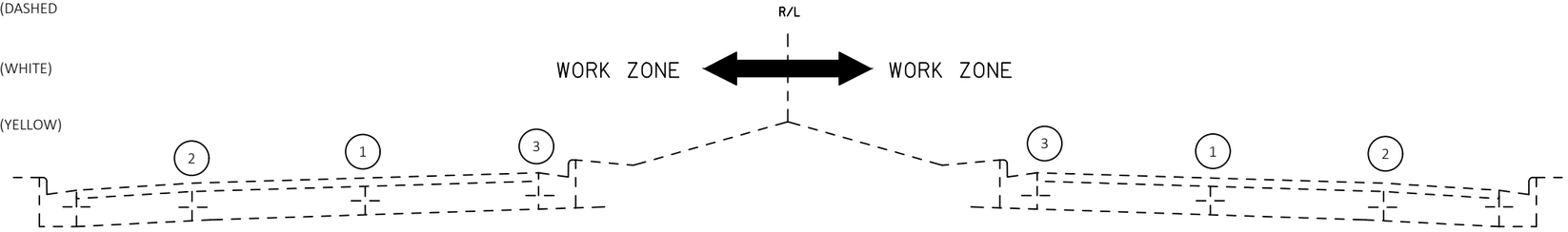
2

TEMPORARY MARKING LEGEND

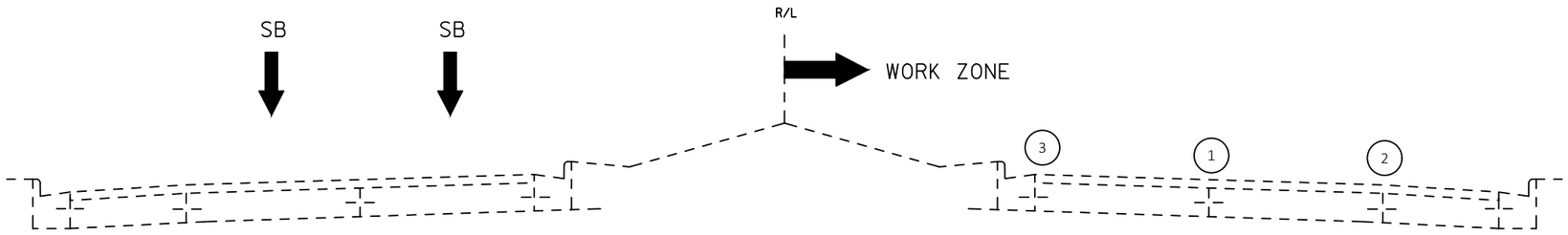
1. TEMPORARY MARKING LINE PAINT 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
2. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
3. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)

PAVEMENT MARKING NOTES:

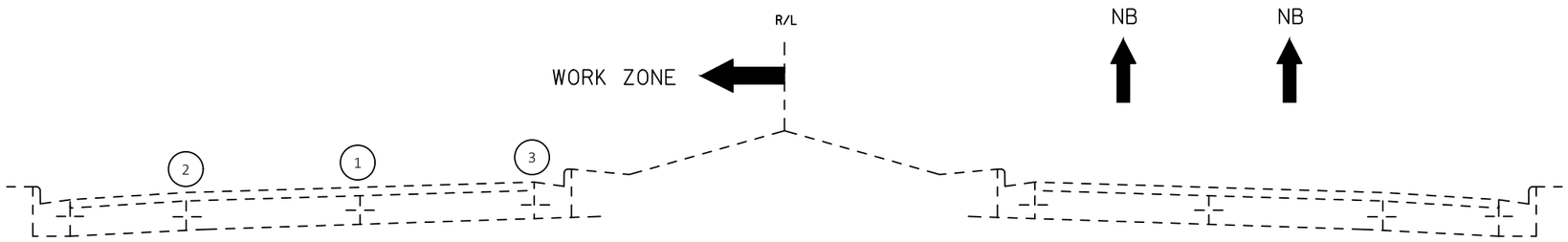
PLACE TEMPORARY MARKINGS PRIOR TO REOPENING THE ROADWAY AFTER NIGHTTIME CLOSURES. TEMPORARY MARKING REQUIRED FOR BOTH THE LOWER AND UPPER LAYERS OF ASPHALT.



STAGE 2 NIGHTTIME WORK TYPICAL SECTION
STH 794 - NB & SB DETOUR
STA. 58+51 TO STA. 131+00



STAGE 2 NIGHTTIME WORK TYPICAL SECTION
STH 794 - NB DETOUR ONLY
STA. 58+51 TO STA. 131+00



STAGE 2 NIGHTTIME WORK TYPICAL SECTION
STH 794 - SB DETOUR ONLY
STA. 58+51 TO STA. 131+00

NOTES:

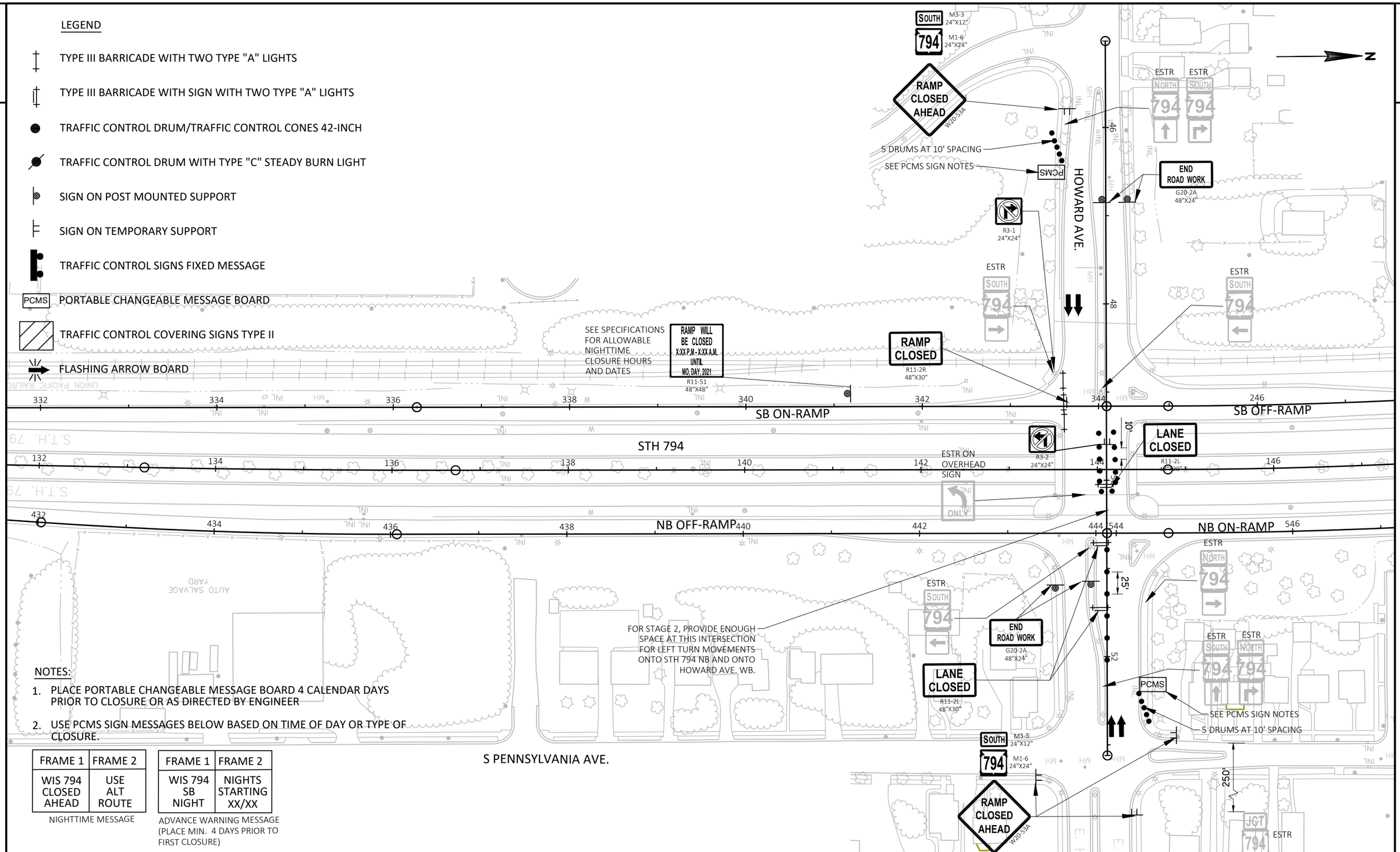
RAMPS WITHIN PROJECT LIMITS WORK ZONE ARE CLOSED EXCEPT FOR CARFERRY DR RAMPS

ELLEN ST. TO BE CLOSED DURING NIGHTTIME CLOSURES

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM/TRAFFIC CONTROL CONES 42-INCH
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD



NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. USE PCMS SIGN MESSAGES BELOW BASED ON TIME OF DAY OR TYPE OF CLOSURE.

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	USE ALT ROUTE

NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 SB NIGHT	NIGHTS STARTING XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - SOUTHBOUND LANES - NIGHTTIME WORK	SHEET 189	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025805A_TC.DWG
LAYOUT NAME - 025805_tc
PLOT DATE : 10/30/2020 10:26 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PLACE SIGN ON THE EASTBOUND, NORTHBOUND AND SOUTHBOUND LEGS OF THE INTERSECTION OF S. CLEMENT.

794 M1-6
ROAD CLOSED AHEAD W20-3A

900' 200' 200' 200'

ROAD WORK AHEAD W20-1A

794 M1-6 24"X24"
ROAD CLOSED AHEAD W20-3A

RIGHT LANE CLOSED AHEAD W20-5A

W04-2R

5 DRUMS AT 10' SPACING

PCMS

SEE PCMS SIGN MESSAGES

PCMS SIGN MESSAGES

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	USE ALT ROUTE

NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 TO CLOSE	CLOSURES START XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

5 DRUMS AT 10' SPACING

OKLAHOMA AVE.

END ROAD WORK G20-2A 48"X24"

180' TAPER

LANE CLOSED R11-2L 48"X30"

STH 794

192 194 196 198 200 202 204 206

25'

ROAD CLOSED R11-2 48"X30"

EXTEND CONES TO END OF LEFT TURN LANE

CLOSE NB RIGHT TURN LANE IF NORTHBOUND FULL CLOSURE IS NOT IN PLACE

SEE SPECIFICATIONS FOR ALLOWABLE NIGHTTIME CLOSURE HOURS AND DATES

RAMP WILL BE CLOSED XX:XX PM TO XX:XX A.M STARTING XX/XX/XX
R11-51 48"X48"

ELLEN ST.

12 14 16

LANE CLOSED R11-2L 48"X30"

ROAD CLOSED R11-2 48"X30"

PLACE SIGN ON THE WESTBOUND, NORTHBOUND AND SOUTHBOUND LEGS OF THE INTERSECTION OF S. KINNICKINNIC AVE.

794 M1-6 24"X24"

ROAD WORK AHEAD W20-1A

ROAD CLOSED AHEAD W20-3A

END ROAD WORK G20-2A 48"X24"

EXTEND DRUMS TO THE LEFT TURN GORE AREA

5 DRUMS AT 10' SPACING

PCMS

SEE PCMS SIGN MESSAGES

START ADVANCE SIGNING 200' FROM BEGINNING OF TURN LANE CLOSURE

400' 900'

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - SOUTHBOUND LANES - NIGHTTIME WORK	SHEET 190	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025805A_TC.DWG
LAYOUT NAME - 025806_tc
PLOT DATE : 10/30/2020 10:26 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE CONSTRUCTION DETAIL "TWO LANE FULL FREEWAY CLOSURE" FOR SIGNING DETAILS.
3. REFERENCE CONSTRUCTION DETAIL "TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE (SHORT TERM ONLY)" FOR SIGNING DETAILS.

FRAME 1	FRAME 2
WIS 794 SB CLOSED	FOLLOW DETOUR ROUTE

NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 SB CLOSED	NIGHTS STARTING XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

RAMP CLOSED
R11-2R
48"X30"

PCMS

5 DRUMS AT 10' SPACING

CARFERRY DRIVE

LINCOLN AVE. VIADUCT

SOUTH 794

END ROAD WORK
G20-2A
48"X24"

STH 794

S. LINCOLN MEMORIAL DR.

SOUTH 794
M3-3 24"X12"
M1-6 24"X24"

PLACE ONE SIGN AT THE EASTBOUND AND SOUTHBOUND LEGS OF THE INTERSECTION OF LINCOLN AVE. VIADUCT AND S. LINCOLN MEMORIAL DR.

PLACE ONE SIGN AT SOUTHBOUND LEG OF THE INTERSECTION OF BAY ST. AND ALDRICH ST.

PLACE ONE SIGN AT NORTHBOUND LEG OF THE INTERSECTION OF BAY ST. AND LINCOLN AVE.

RAMP CLOSED AHEAD
W20-5A

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

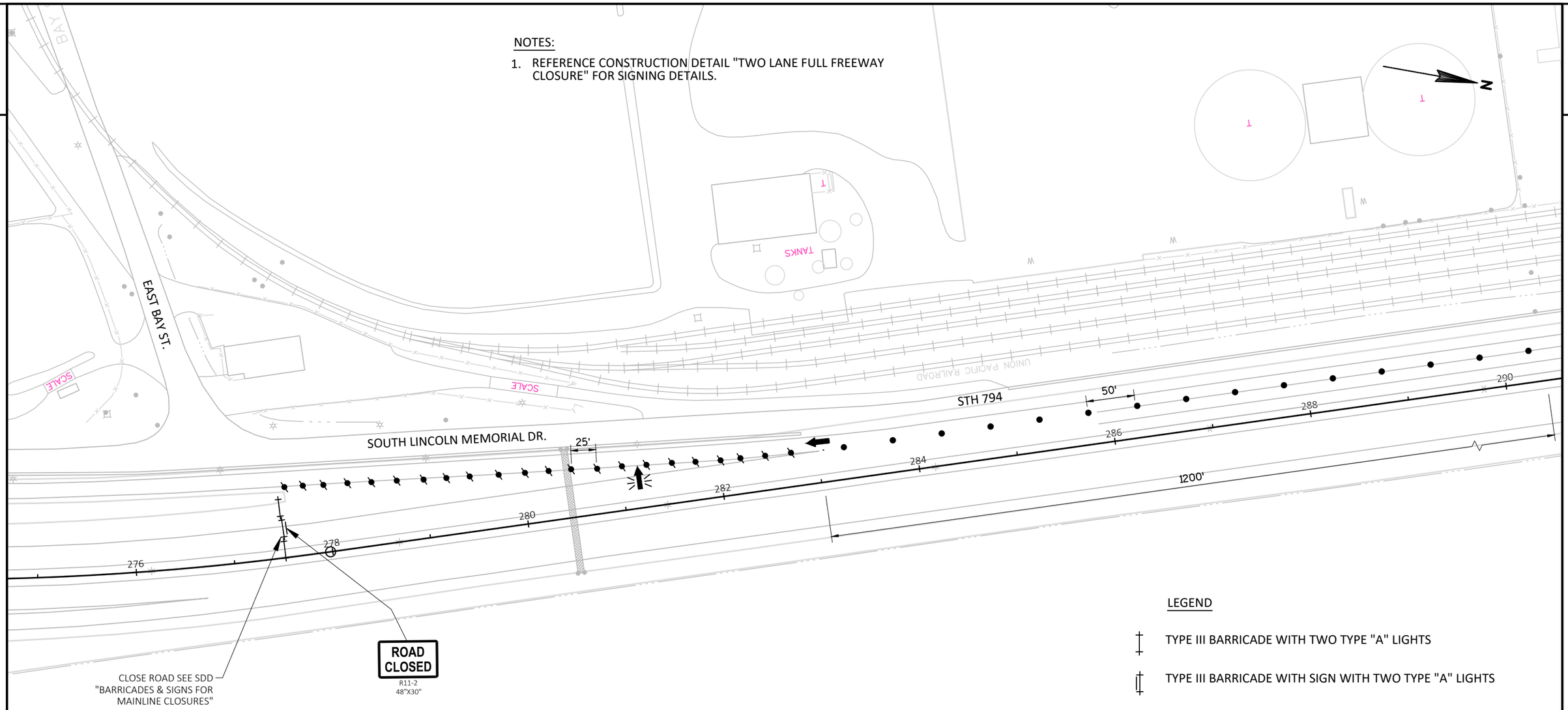
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 SOUTHBOUND LANES NIGHTTIME WORK	SHEET 191 E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025805B_TC.DWG
LAYOUT NAME - 025809_tc

PLOT DATE : 10/30/2020 10:28 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTES:

1. REFERENCE CONSTRUCTION DETAIL "TWO LANE FULL FREEWAY CLOSURE" FOR SIGNING DETAILS.



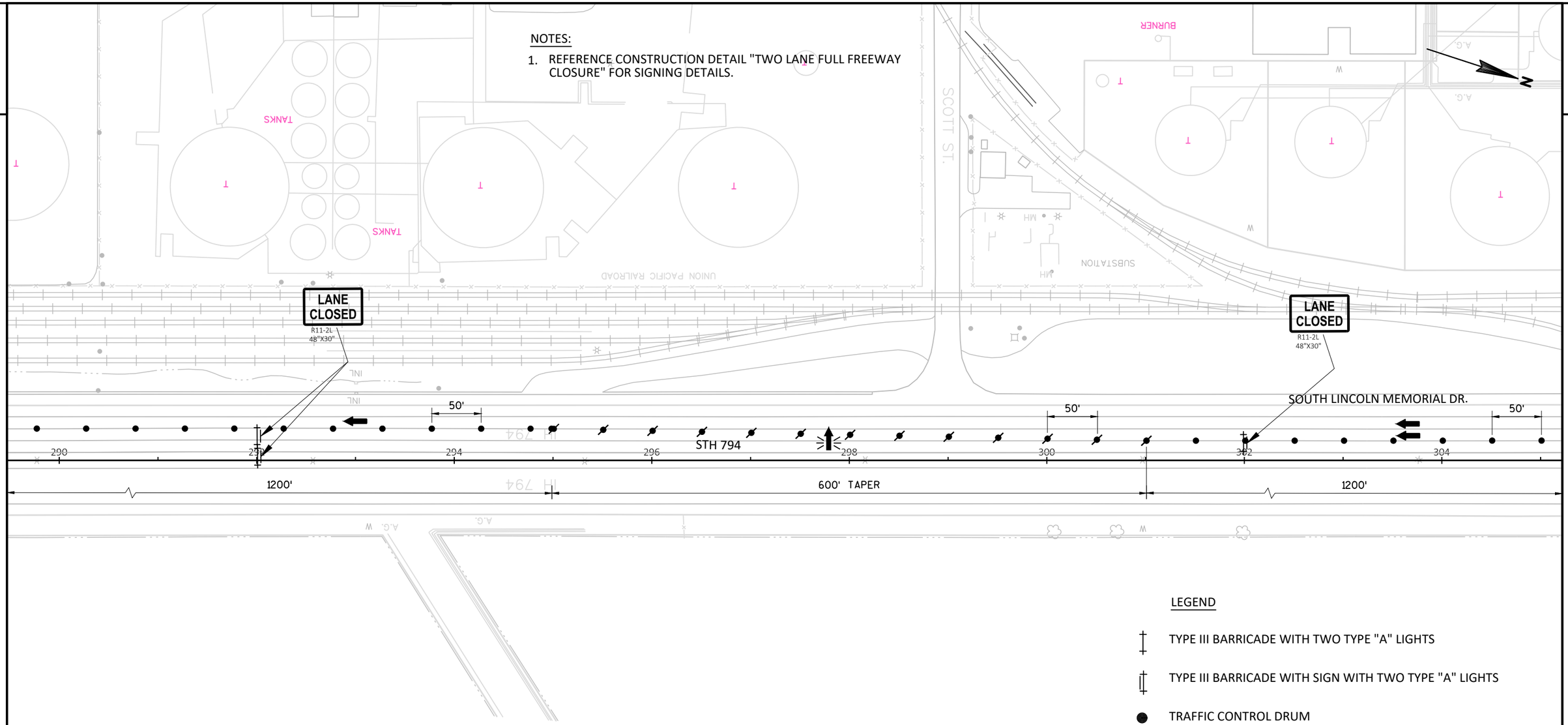
LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

2

NOTES:

1. REFERENCE CONSTRUCTION DETAIL "TWO LANE FULL FREEWAY CLOSURE" FOR SIGNING DETAILS.



LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 SOUTHBOUND LANES NIGHTTIME WORK	SHEET 193	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025805B_TC.DWG
LAYOUT NAME - 025811_tc
PLOT DATE : 10/30/2020 10:28 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTES:

1. REFERENCE CONSTRUCTION DETAIL "TWO LANE FULL FREEWAY CLOSURE" FOR SIGNING DETAILS.





SOUTH LINCOLN MEMORIAL DR.

50'

50'

304 306 308 310 312 314 316 318

STH 794

1200'

600' TAPER

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 SOUTHBOUND LANES NIGHTTIME WORK	SHEET 194	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025805B_TC.DWG
LAYOUT NAME - 025812_tc

PLOT DATE : 10/30/2020 10:29 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE CONSTRUCTION DETAIL "TWO LANE FULL FREEWAY CLOSURE" FOR SIGNING DETAILS.
3. PLACE PORTABLE CHANGEABLE MESSAGE BOARDS PRIOR TO PREVIOUS WIS 794 ON-RAMPS FROM ISH-94, AND AT N. LINCOLN MEMORIAL DR /E. CLYBOURN ST INTERSECTION
4. PLACE TRAFFIC CONTROL SIGNS ON BOTH SIDES OF THE ROADWAY

NIGHTTIME DETOUR

FRAME 1	FRAME 2
WIS 794 CLOSED	EXIT AHEAD

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)

FRAME 1	FRAME 2
WIS 794 SB CLOSED	NIGHTS STARTING XX/XX

E. JONES ST.

SOUTH LINCOLN MEMORIAL DR.

50' 50'

328 330 332 334 326 328 330 332

STH 794

600' TAPER 500'

PCMS PCMS PCMS PCMS

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

W04-2L

LEFT LANE CLOSED 1500 FT W20-59B

LEFT TWO LANES CLOSED 1500 FT W20-59B

LEFT LANE CLOSED 1/2 MILE W20-59C

LEFT TWO LANES CLOSED 1/2 MILE W20-59C

LEFT LANE CLOSED AHEAD W20-59A

LEFT TWO LANES CLOSED AHEAD W20-59A

ROAD WORK AHEAD W20-1A

ROAD CLOSED AHEAD W20-3A

500' 500' 1200' 7500' 500'

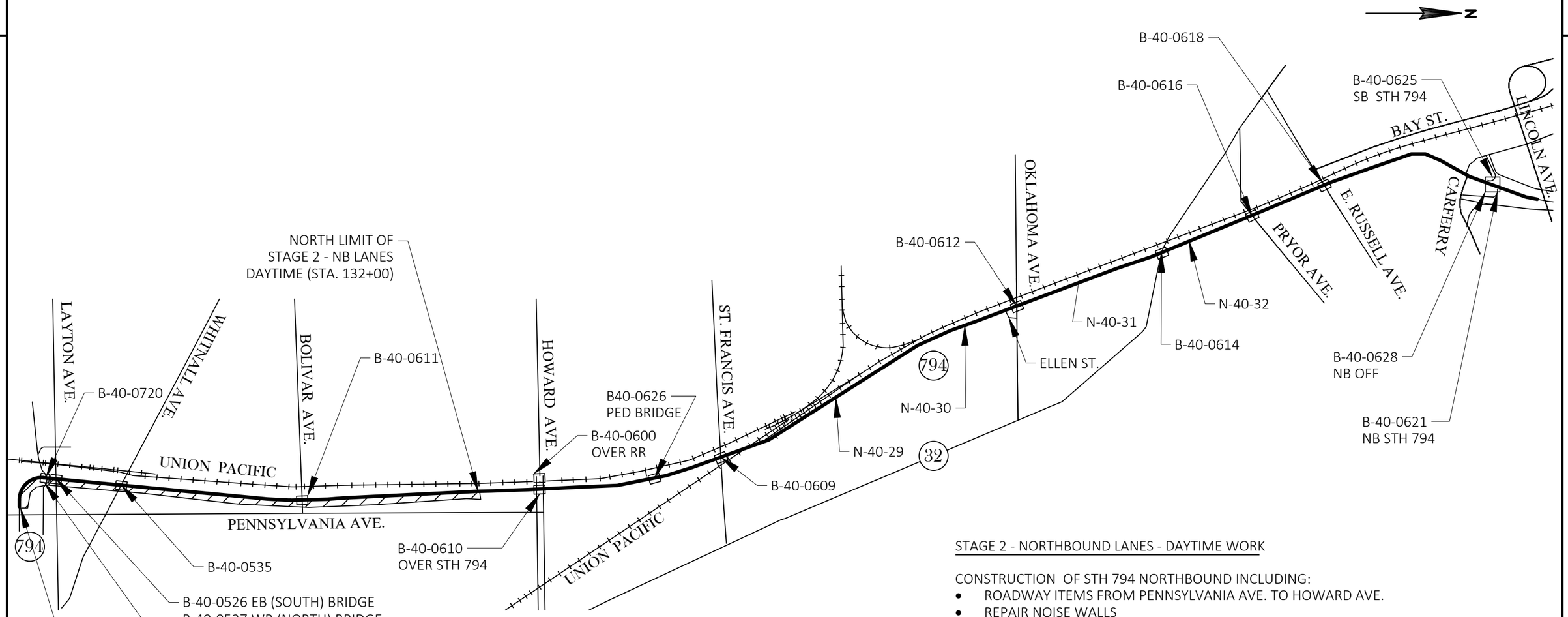
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 SOUTHBOUND LANES NIGHTTIME WORK	SHEET 195	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025805B_TC.DWG
LAYOUT NAME - 025813_tc

PLOT DATE : 10/30/2020 10:29 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



STAGE 2 - NORTHBOUND LANES - DAYTIME WORK

CONSTRUCTION OF STH 794 NORTHBOUND INCLUDING:

- ROADWAY ITEMS FROM PENNSYLVANIA AVE. TO HOWARD AVE.
- REPAIR NOISE WALLS

TRAFFIC

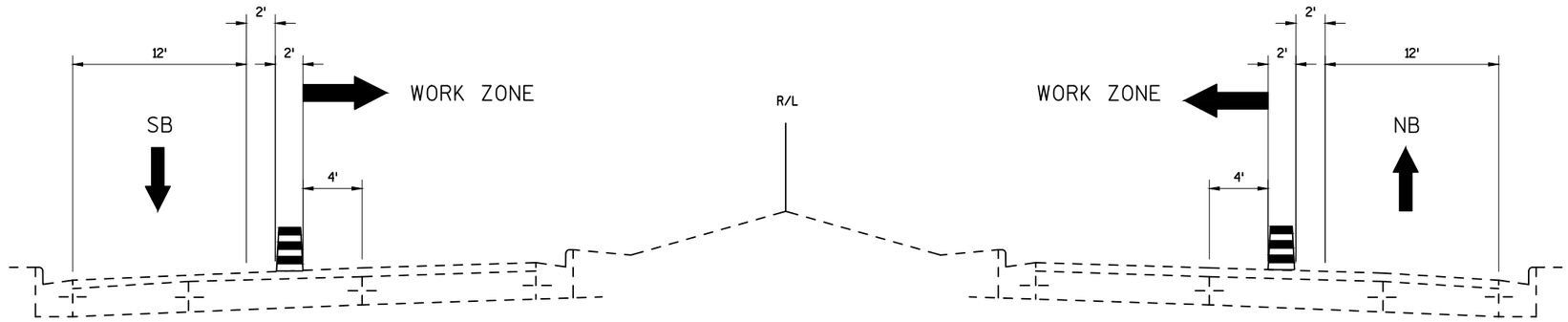
- MEDIAN LANE CLOSURE OF STH 794 NORTHBOUND FROM PENNSYLVANIA AVE. TO HOWARD AVE. MAINTAIN A MINIMUM OF ONE LANE OPEN TO TRAFFIC AT ALL TIMES.
- MAINTAIN ACCESS TO STH 794 NORTHBOUND AT PENNSYLVANIA AVE., LAYTON AVE., AND HOWARD AVE.

▨ - WORK ZONE

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL OVERVIEW - STAGE 2 - NORTHBOUND LANES - DAYTIME WORK	SHEET 196	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025901_TC.DWG
LAYOUT NAME - 01
PLOT DATE : 10/30/2020 10:30 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2



STAGE 2 TYPICAL SECTION

STH 794 NB & SB

STA. 58+51 TO STA. 132+00

TRAFFIC CONTROL DRUMS

NOTES:

ALL LANES TO BE OPEN DURING PEAK HOURS

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - NORTHBOUND LANES - DAYTIME WORK	SHEET 197	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025902_TC.DWG
LAYOUT NAME - STAGE 2 DAY

PLOT DATE : 10/30/2020 10:30 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : ##########

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

NOTES:

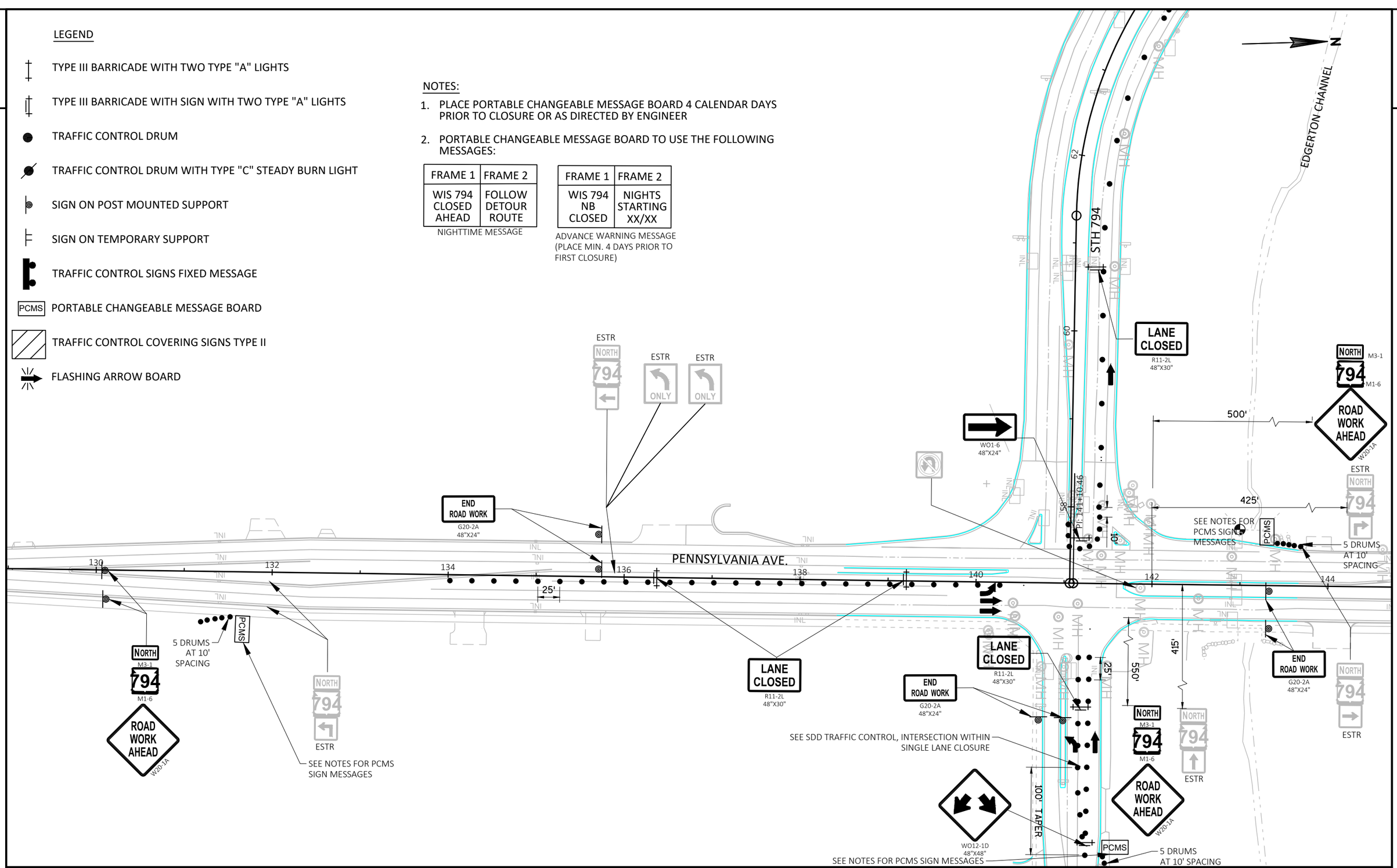
1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. PORTABLE CHANGEABLE MESSAGE BOARD TO USE THE FOLLOWING MESSAGES:

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	FOLLOW DETOUR ROUTE

NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 NB CLOSED	NIGHTS STARTING XX/XX

ADVANCE WARNING MESSAGE (PLACE MIN. 4 DAYS PRIOR TO FIRST CLOSURE)



PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - NORTHBOUND LANES - DAYTIME WORK	SHEET 198	E

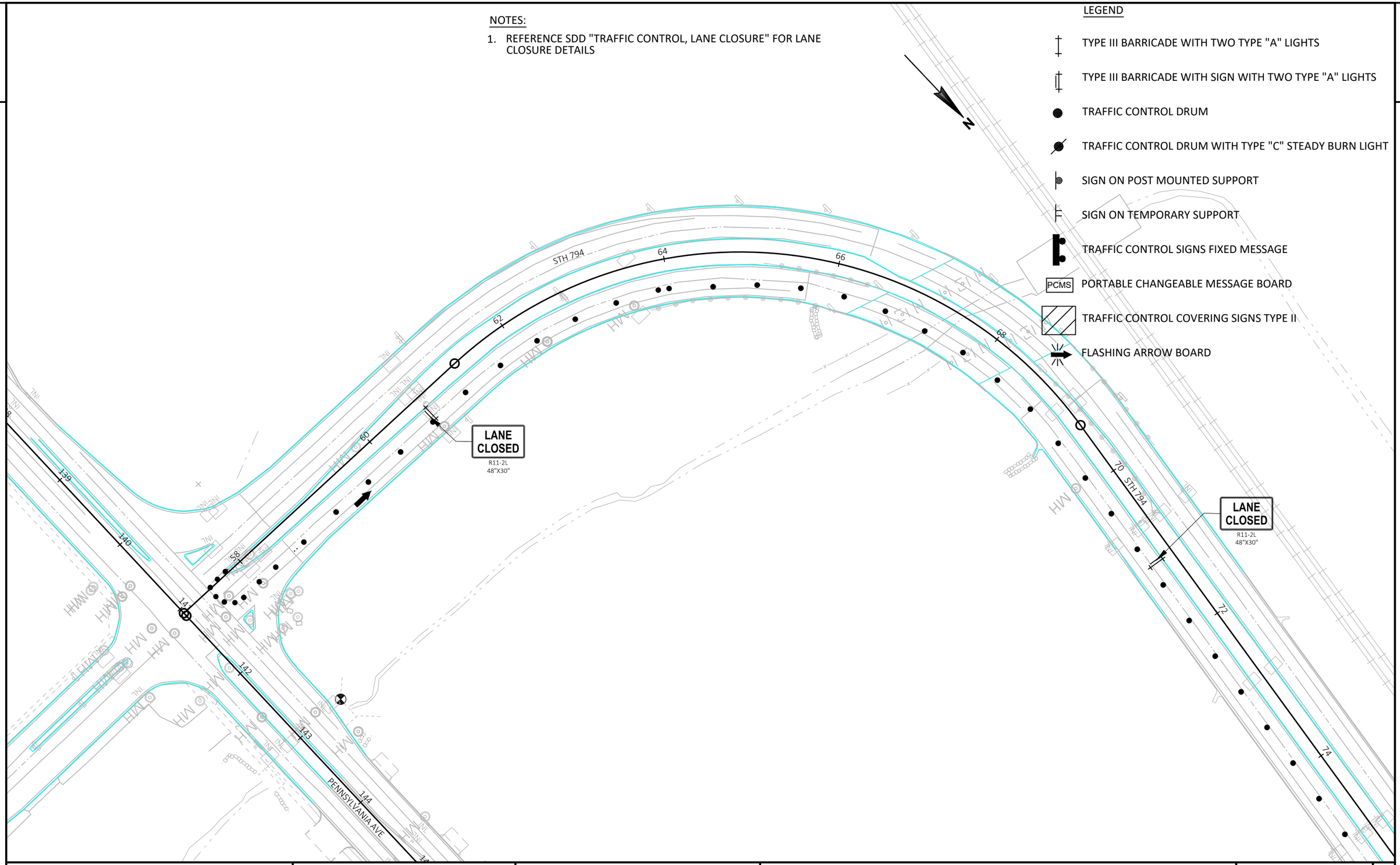
2

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD



2

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 NORTHBOUND LANES - DAYTIME WORK	SHEET 199	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025905B_TC.DWG
LAYOUT NAME - 025906_tc

PLOT DATE : 10/30/2020 10:33 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

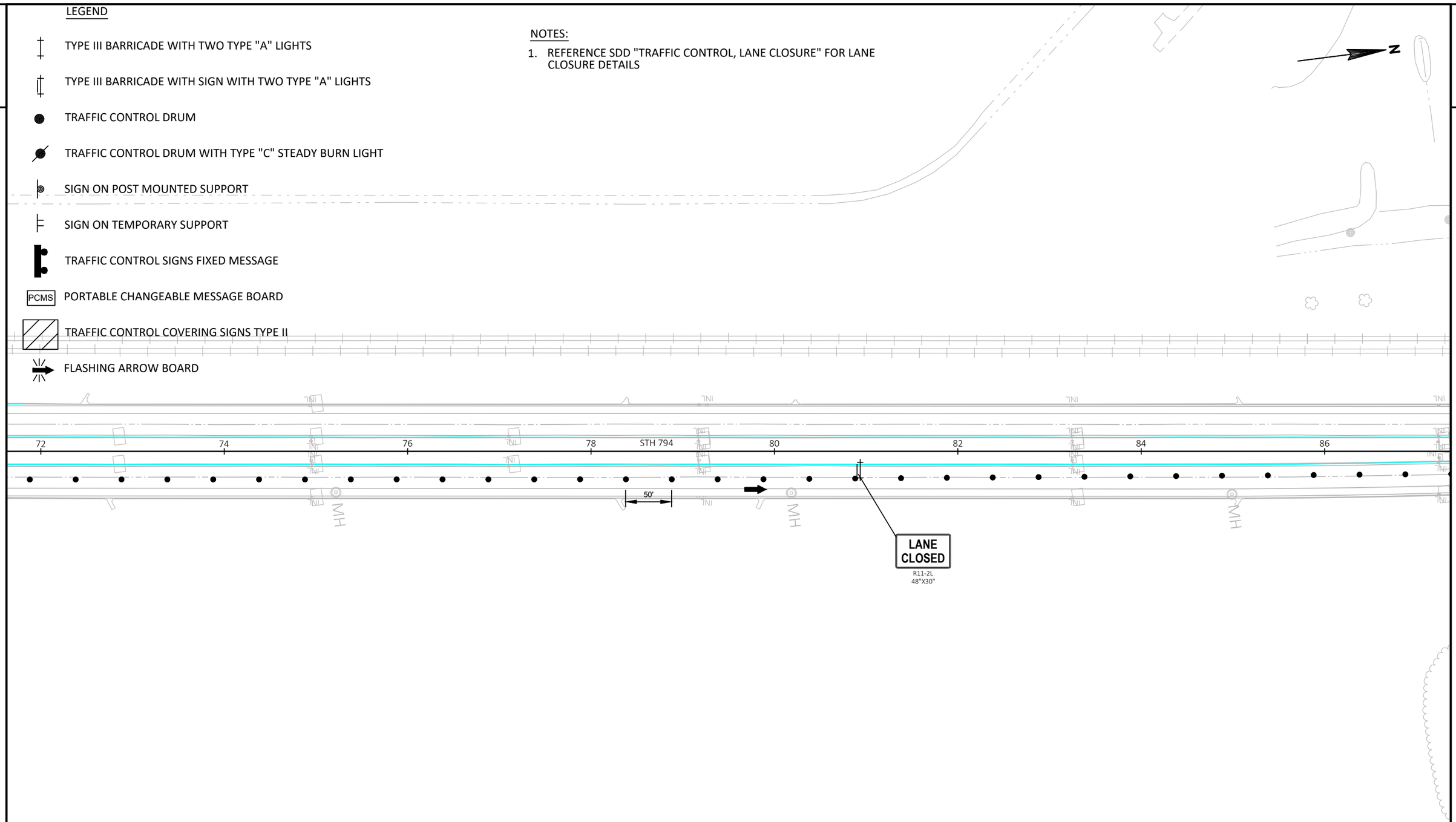
2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS



2

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 NORTHBOUND LANES - DAYTIME WORK	SHEET 200	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025905B_TC.DWG
LAYOUT NAME - 025907_tc

PLOT DATE : 10/30/2020 10:33 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

5 DRUMS AT
10' SPACING

PCMS

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	FOLLOW DETOUR ROUTE

NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 NB NIGHT	NIGHTS STARTING XX/XX

ADVANCE WARNING MESSAGE
(PLACE MIN. 4 DAYS PRIOR TO
FIRST CLOSURE)

LAYTON AVE

WHITNALL AVE

LAYTON AVE SB-OFF RAMP

LAYTON AVE NB-ON RAMP

STH 794

S.T.H. 794

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

EXISTING
SIGN TO
REMAIN

ROAD WORK AHEAD
W20-1A

88 90 92 94 96 98 100 102

491 492 493 494 495 496 497 498 499 500 501 502

191 192 193 194 195 196 197 198 199 200 201 202

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

FRAME 1	FRAME 2
WIS 794 CLOSED AHEAD	FOLLOW DETOUR ROUTE

NIGHTTIME MESSAGE

FRAME 1	FRAME 2
WIS 794 NB CLOSED	NIGHTS STARTING XX/XX

ADVANCE WARNING MESSAGE
(PLACE MIN. 4 DAYS PRIOR TO
FIRST CLOSURE)

PCMS

5 DRUMS AT
10' SPACING

NOTES:

1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS

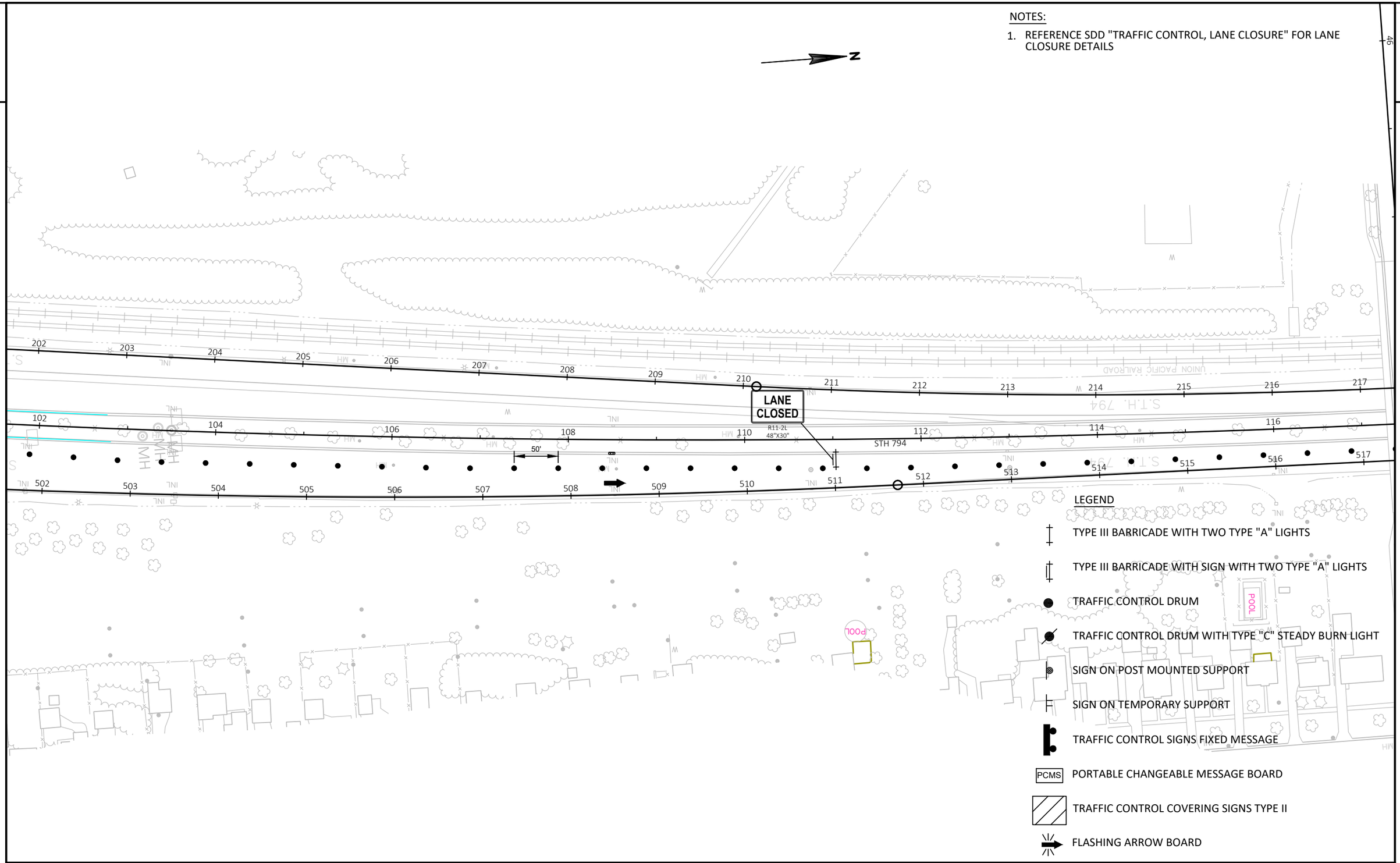
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 NORTHBOUND LANES - DAYTIME WORK	SHEET 201	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025905B_TC.DWG
LAYOUT NAME - 025908_tc

PLOT DATE : 10/30/2020 10:33 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS



PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 NORTHBOUND LANES - DAYTIME WORK	SHEET 202	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025905B_TC.DWG
LAYOUT NAME - 025909_tc
PLOT DATE : 10/30/2020 10:34 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS

N

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

E. BOLIVAR AVE.

STH 794

HOWARD AVE. SB ON RAMP

HOWARD AVE. NB OFF RAMP

50'

50'

EP: 54+06.77

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 NORTHBOUND LANES - DAYTIME WORK	SHEET 203	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025905B_TC.DWG
LAYOUT NAME - 025910_tc

PLOT DATE : 10/30/2020 10:34 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

N

2

LANE CLOSED
R11-2L
48"X30"

END ROAD WORK
G20-2A
48"X24"

END ROAD WORK
G20-2A
48"X24"

HOWARD AVE. SB ON RAMP

STH 794

STH 794

HOWARD AVE. NB OFF RAMP

S PENNSYLVANIA AVE.

HOWARD AVE.

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS

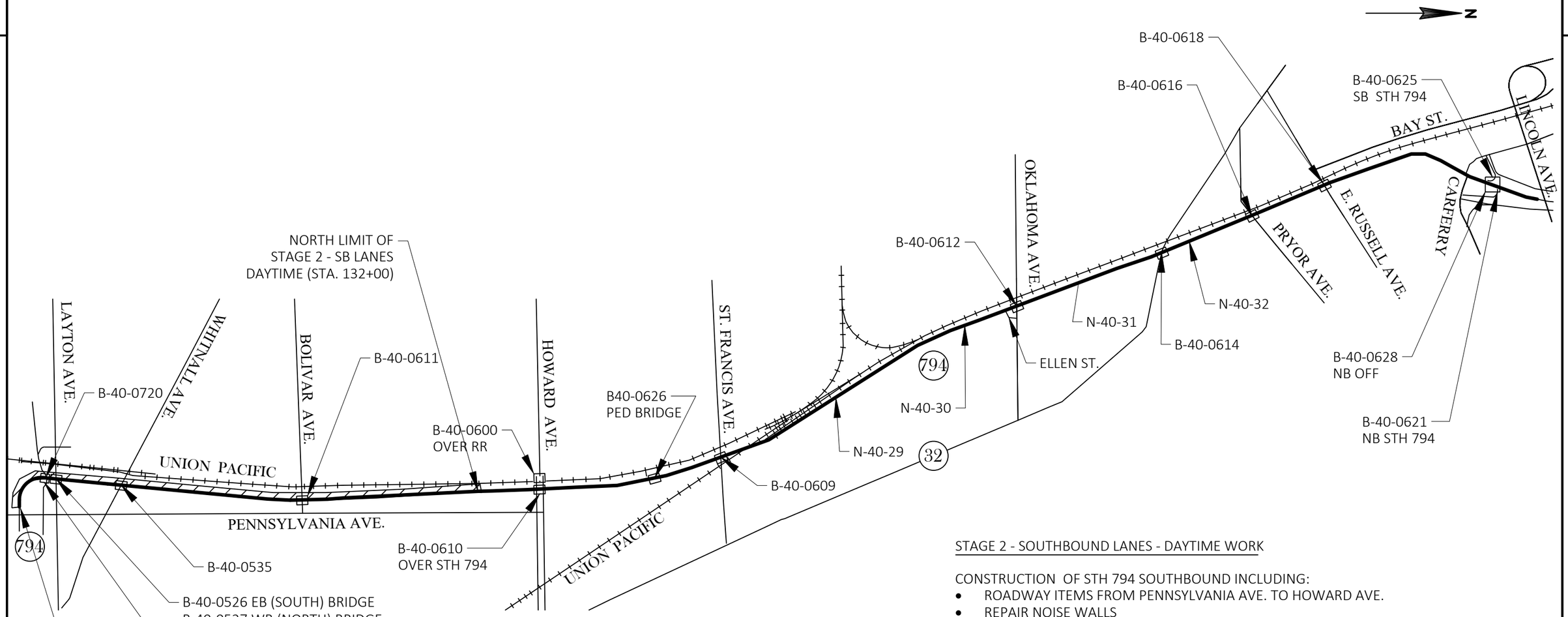
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 NORTHBOUND LANES - DAYTIME WORK	SHEET 204 E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\025905B_TC.DWG
LAYOUT NAME - 025911_tc

PLOT DATE : 10/30/2020 10:35 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



STAGE 2 - SOUTHBOUND LANES - DAYTIME WORK

CONSTRUCTION OF STH 794 SOUTHBOUND INCLUDING:

- ROADWAY ITEMS FROM PENNSYLVANIA AVE. TO HOWARD AVE.
- REPAIR NOISE WALLS

TRAFFIC

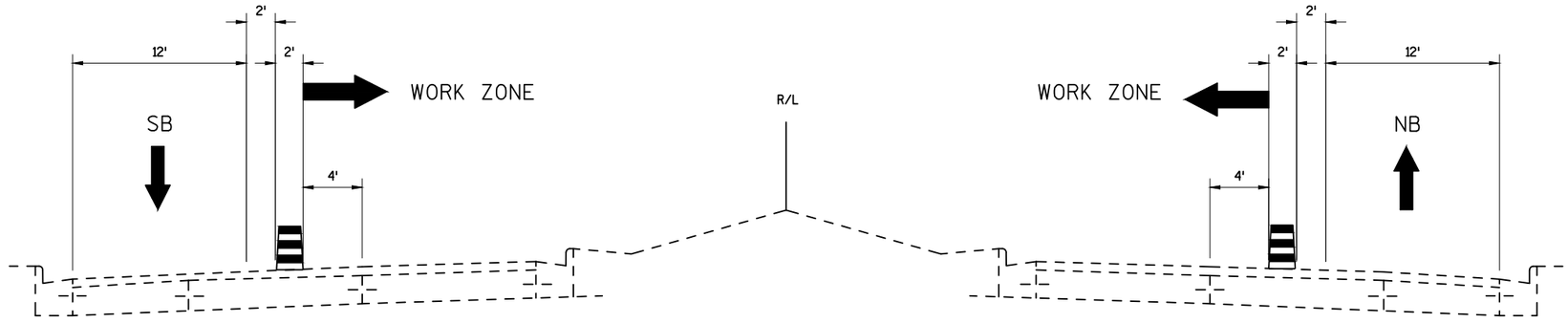
- LANE CLOSURE OF STH 794 SOUTHBOUND FROM PENNSYLVANIA AVE. TO HOWARD AVE. MAINTAIN A MINIMUM OF ONE LANE OPEN TO TRAFFIC AT ALL TIMES.
- MAINTAIN ACCESS TO STH 794 SOUTHBOUND AT PENNSYLVANIA AVE., LAYTON AVE., AND HOWARD AVE.

▨ - WORK ZONE

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL OVERVIEW - STAGE 2 - SOUTHBOUND LANES - DAYTIME WORK	SHEET 205	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\026001_TC.DWG
LAYOUT NAME - 01
PLOT DATE : 10/30/2020 10:35 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2



STAGE 2 TYPICAL SECTION

STH 794 NB & SB

STA. 58+51 TO STA. 132+00

TRAFFIC CONTROL DRUMS

NOTES:

ALL LANES TO BE OPEN DURING PEAK HOURS

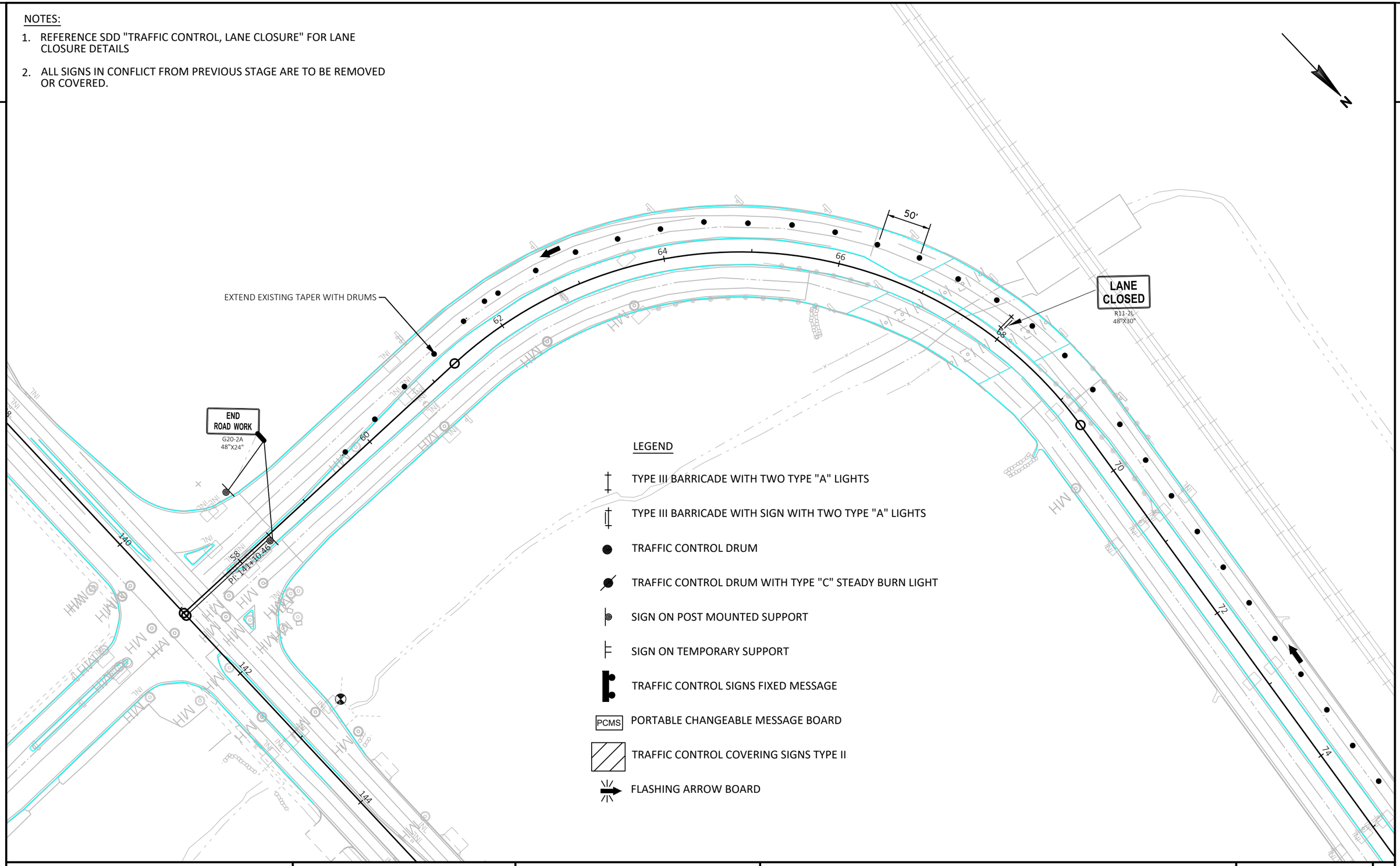
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL OVERVIEW - STAGE 2 - SOUTHBOUND LANES - DAYTIME WORK	SHEET 206	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\026002_TC.DWG
LAYOUT NAME - STAGE 2 DAY

PLOT DATE : 10/30/2020 10:35 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : ##########

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS
2. ALL SIGNS IN CONFLICT FROM PREVIOUS STAGE ARE TO BE REMOVED OR COVERED.

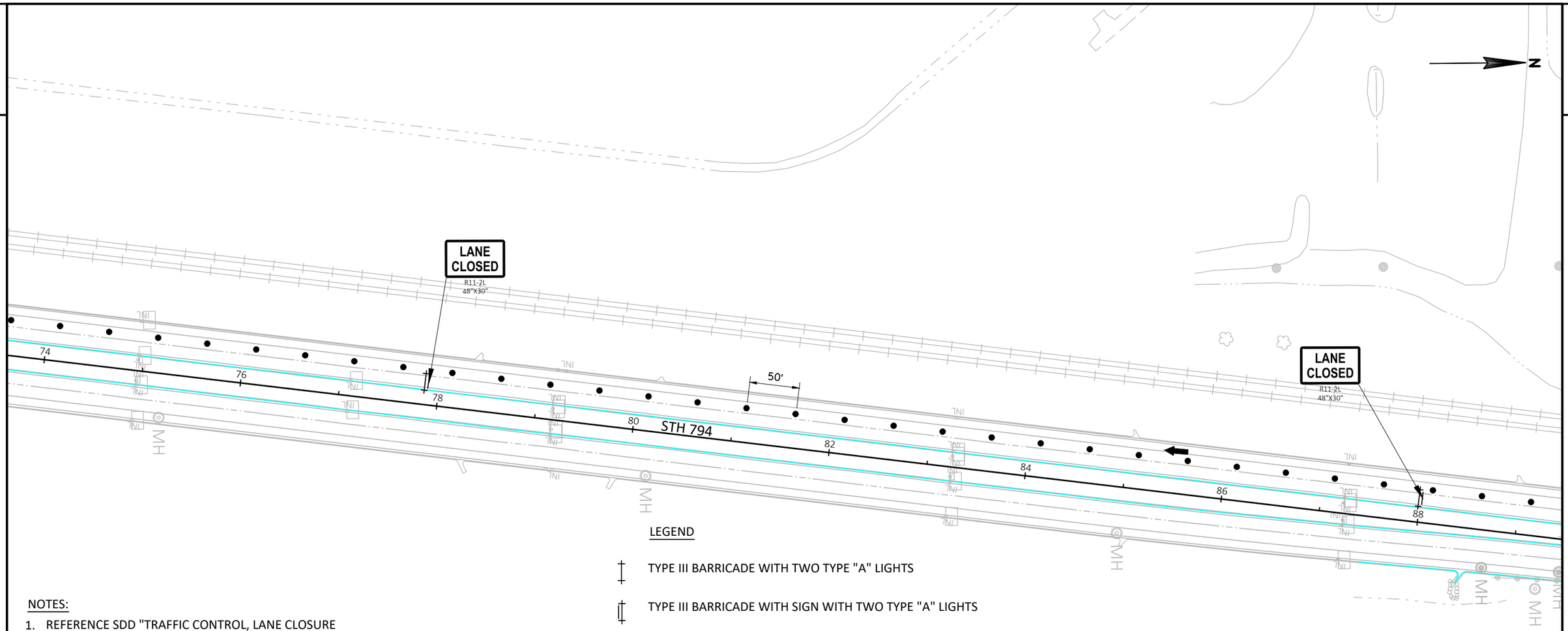


LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - SOUTHBOUND LANES - DAYTIME WORK	SHEET 207 E

2

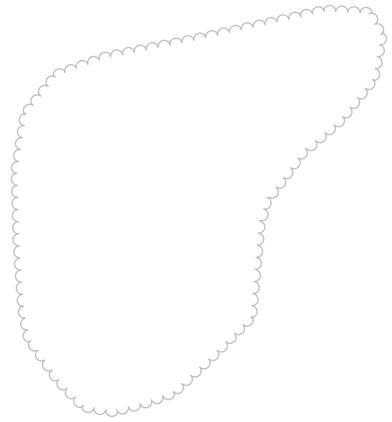


NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE
2. ALL SIGNS IN CONFLICT FROM PREVIOUS STAGE ARE TO BE REMOVED OR COVERED.

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD



PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - SOUTHBOUND LANES - DAYTIME WORK	SHEET 208	E

2

2

LEGEND

N

TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS

TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

SIGN ON POST MOUNTED SUPPORT

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL SIGNS FIXED MESSAGE

PCMS PORTABLE CHANGEABLE MESSAGE BOARD

TRAFFIC CONTROL COVERING SIGNS TYPE II

FLASHING ARROW BOARD

LAYTON AVE.

SB OFF-RAMP

NB ON-RAMP

STH 794

END ROAD WORK
G20-2A
48"X24"

LANE CLOSED
R11-2L
48"X30"

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL,LANE CLOSURE" FOR LANE CLOSURE DETAILS
2. ALL SIGNS IN CONFLICT FROM PREVIOUS STAGE ARE TO BE REMOVED OR COVERED.

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - SOUTHBOUND LANES - DAYTIME WORK	SHEET 209	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\026005_TC.DWG
LAYOUT NAME - 026007_tc

PLOT DATE : 10/30/2020 10:36 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL,LANE CLOSURE" FOR LANE CLOSURE DETAILS
2. ALL SIGNS IN CONFLICT FROM PREVIOUS STAGE ARE TO BE REMOVED OR COVERED.

N

BOLIVAR AVE.

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

SB ON-RAMP

STH 794

S PENNSYLVANIA AVE.

EP: 54+06.77

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - SOUTHBOUND LANES - DAYTIME WORK	SHEET 210	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\026005_TC.DWG
LAYOUT NAME - 026008_tc

PLOT DATE : 10/30/2020 10:37 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

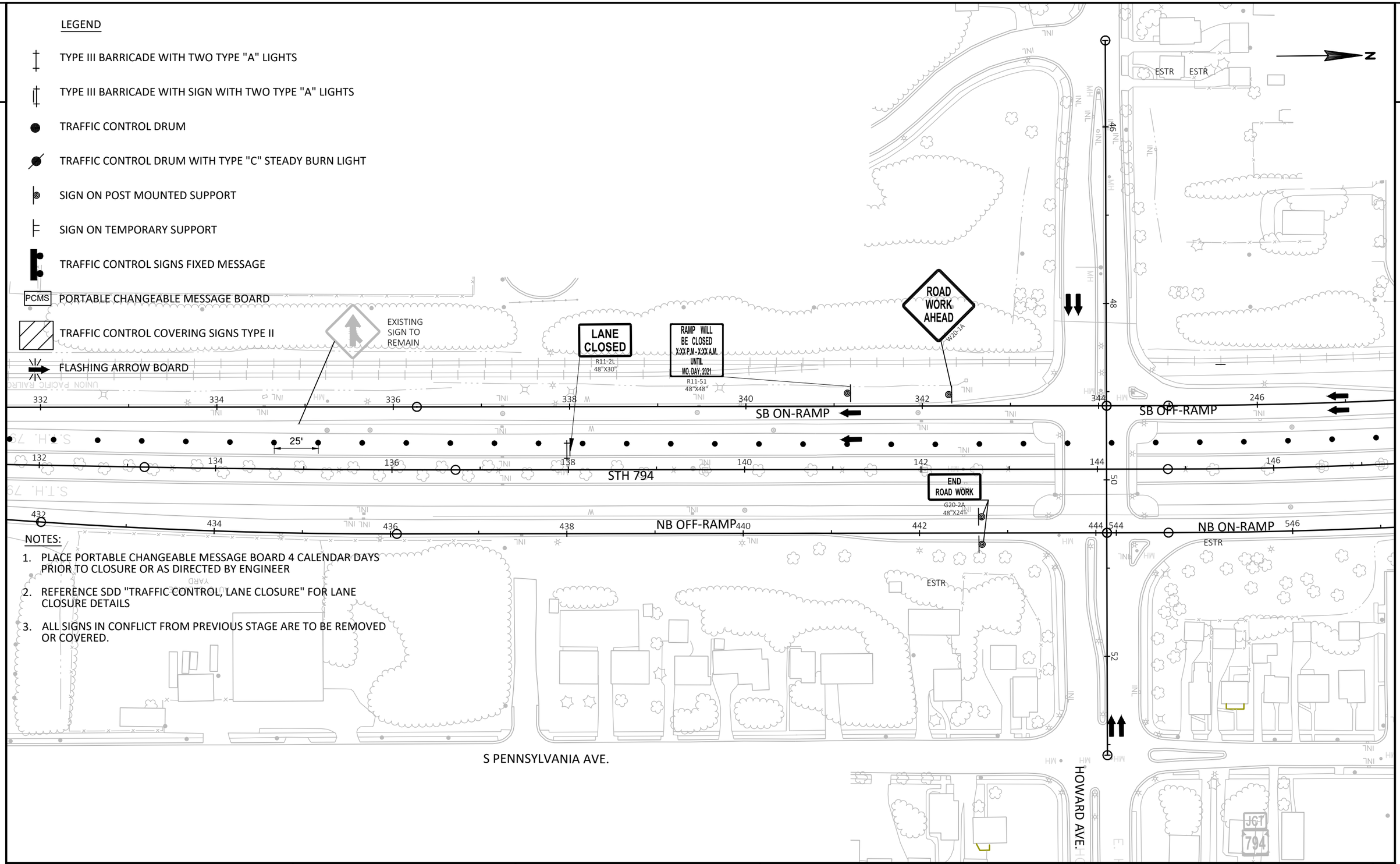
2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

NOTES:

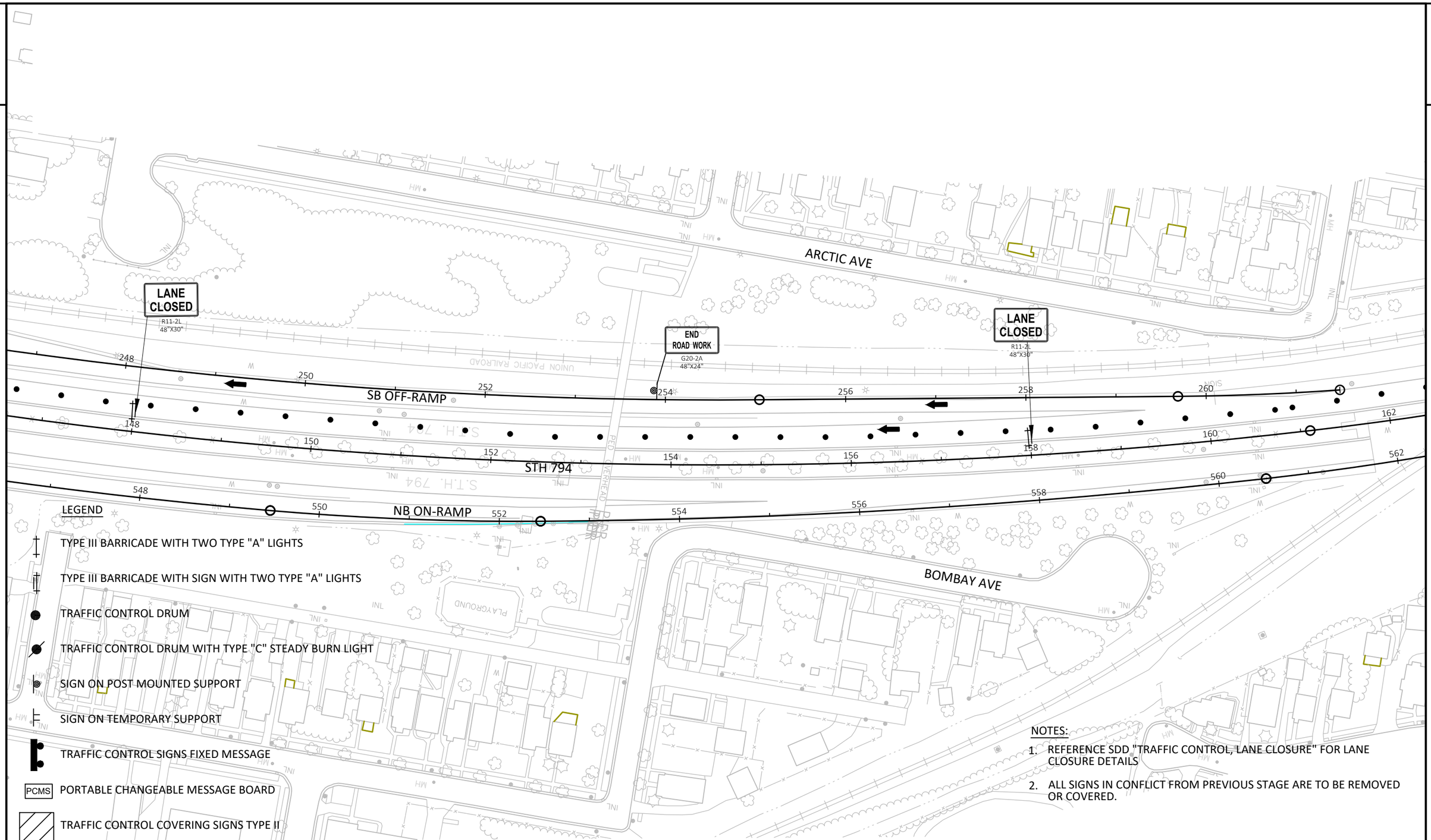
1. PLACE PORTABLE CHANGEABLE MESSAGE BOARD 4 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER
2. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS
3. ALL SIGNS IN CONFLICT FROM PREVIOUS STAGE ARE TO BE REMOVED OR COVERED.



PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - SOUTHBOUND LANES - DAYTIME WORK	SHEET 211	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\026005_TC.DWG
LAYOUT NAME - 026009_tc
PLOT DATE : 10/30/2020 10:37 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2



LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

NOTES:

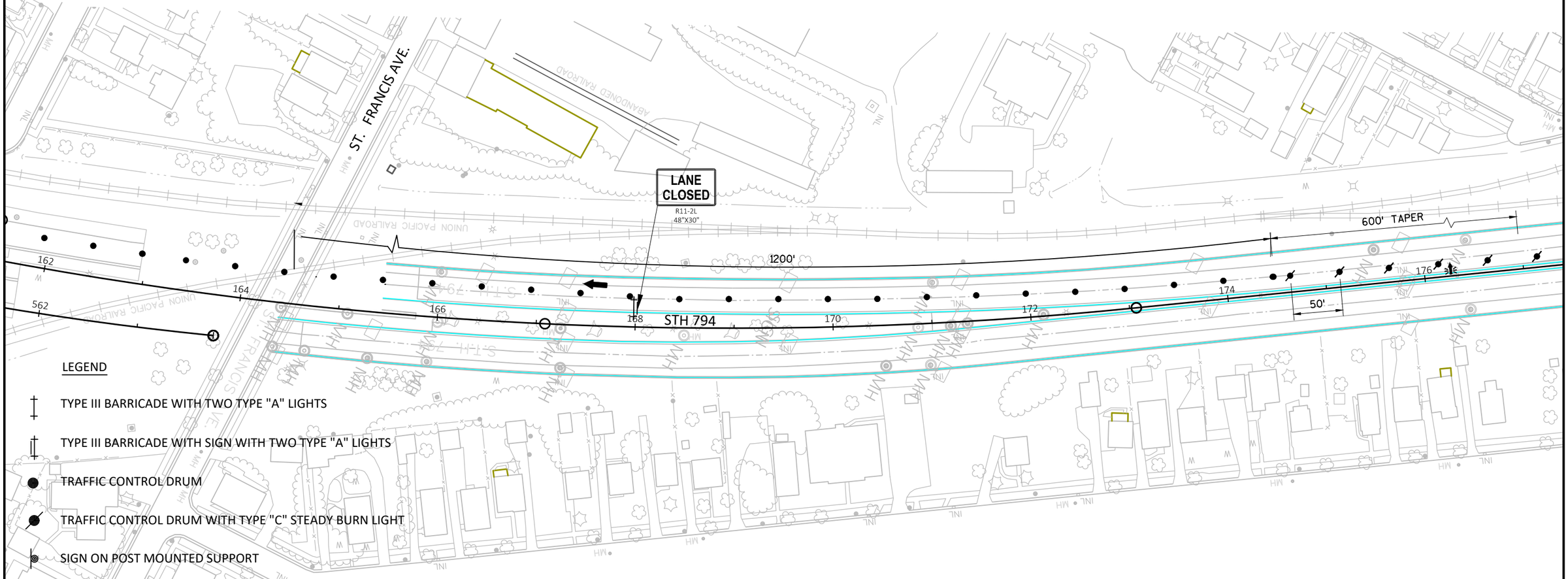
1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS
2. ALL SIGNS IN CONFLICT FROM PREVIOUS STAGE ARE TO BE REMOVED OR COVERED.

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - SOUTHBOUND LANES - DAYTIME WORK	SHEET 212	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\026005_TC.DWG
LAYOUT NAME - 026010_tc

PLOT DATE : 10/30/2020 10:38 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

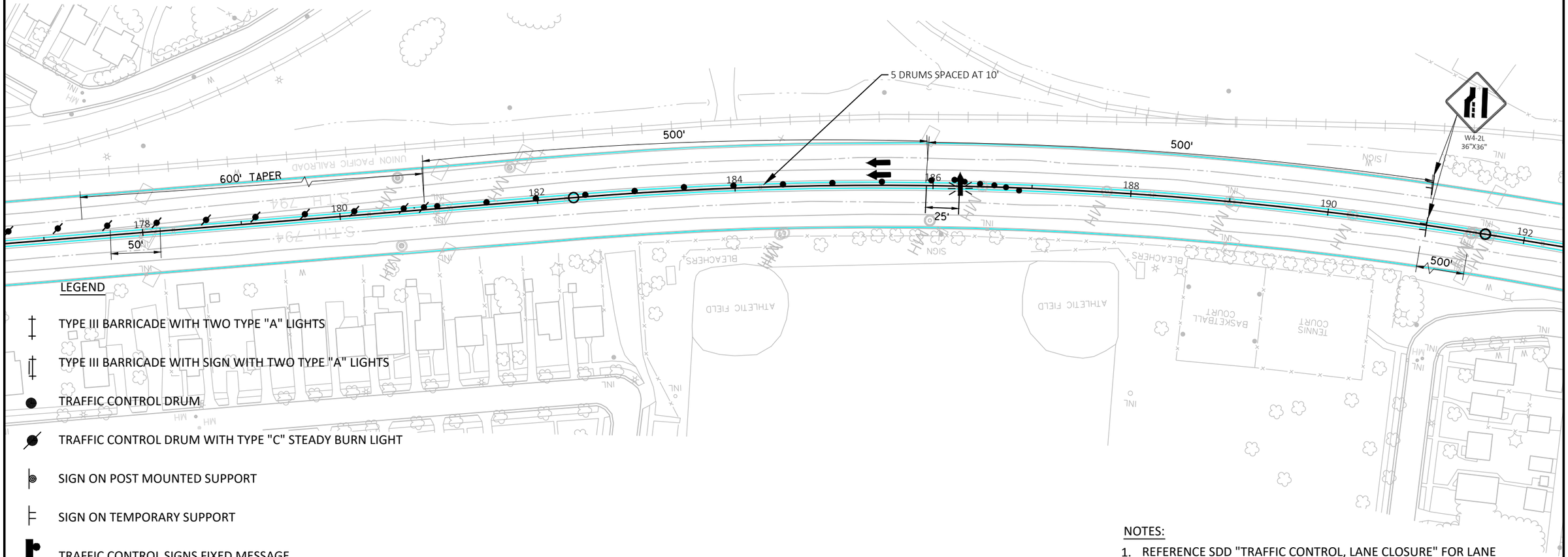
NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS
2. ALL SIGNS IN CONFLICT FROM PREVIOUS STAGE ARE TO BE REMOVED OR COVERED.

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - SOUTHBOUND LANES - DAYTIME WORK	SHEET 213	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\026005_TC.DWG
LAYOUT NAME - 026011_tc
PLOT DATE : 10/30/2020 10:38 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS
2. ALL SIGNS IN CONFLICT FROM PREVIOUS STAGE ARE TO BE REMOVED OR COVERED.

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - SOUTHBOUND LANES - DAYTIME WORK	SHEET 214	E

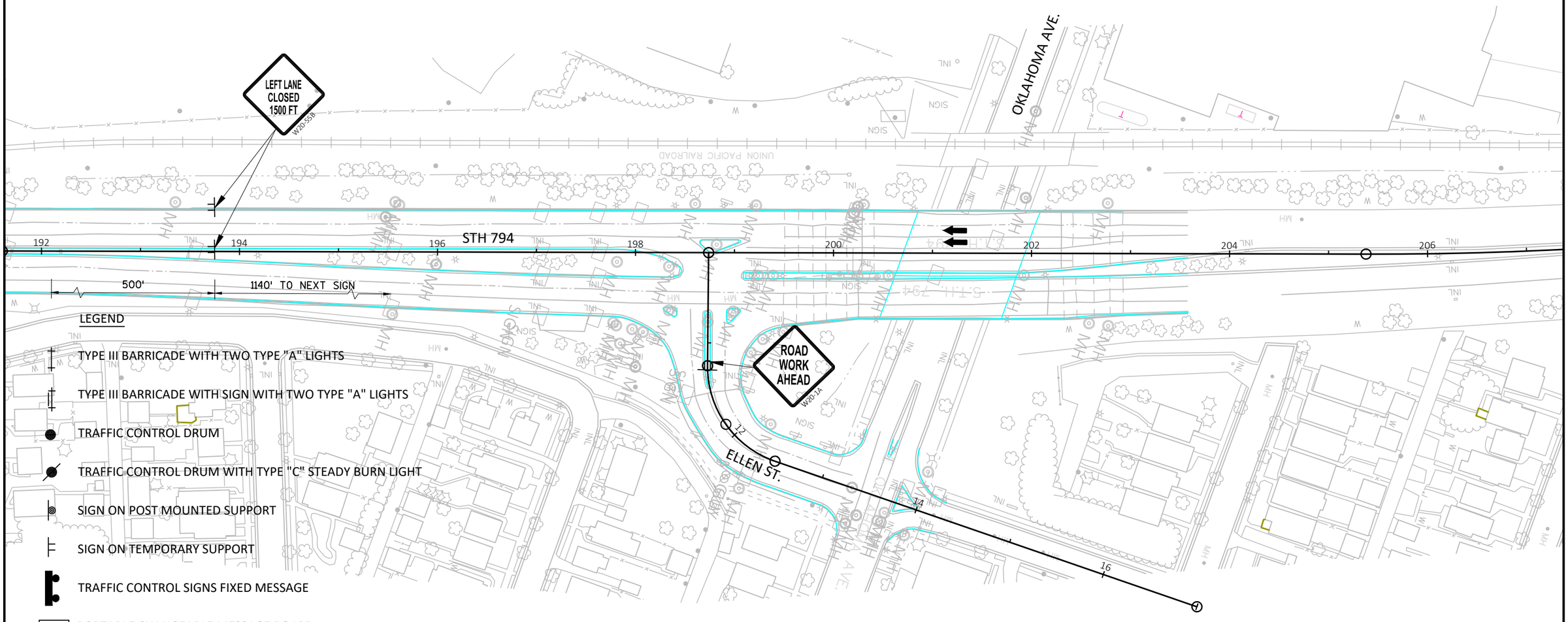
FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\026005_TC.DWG
LAYOUT NAME - 026012_tc
PLOT DATE : 10/30/2020 10:39 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

2

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS
2. ALL SIGNS IN CONFLICT FROM PREVIOUS STAGE ARE TO BE REMOVED OR COVERED.



LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

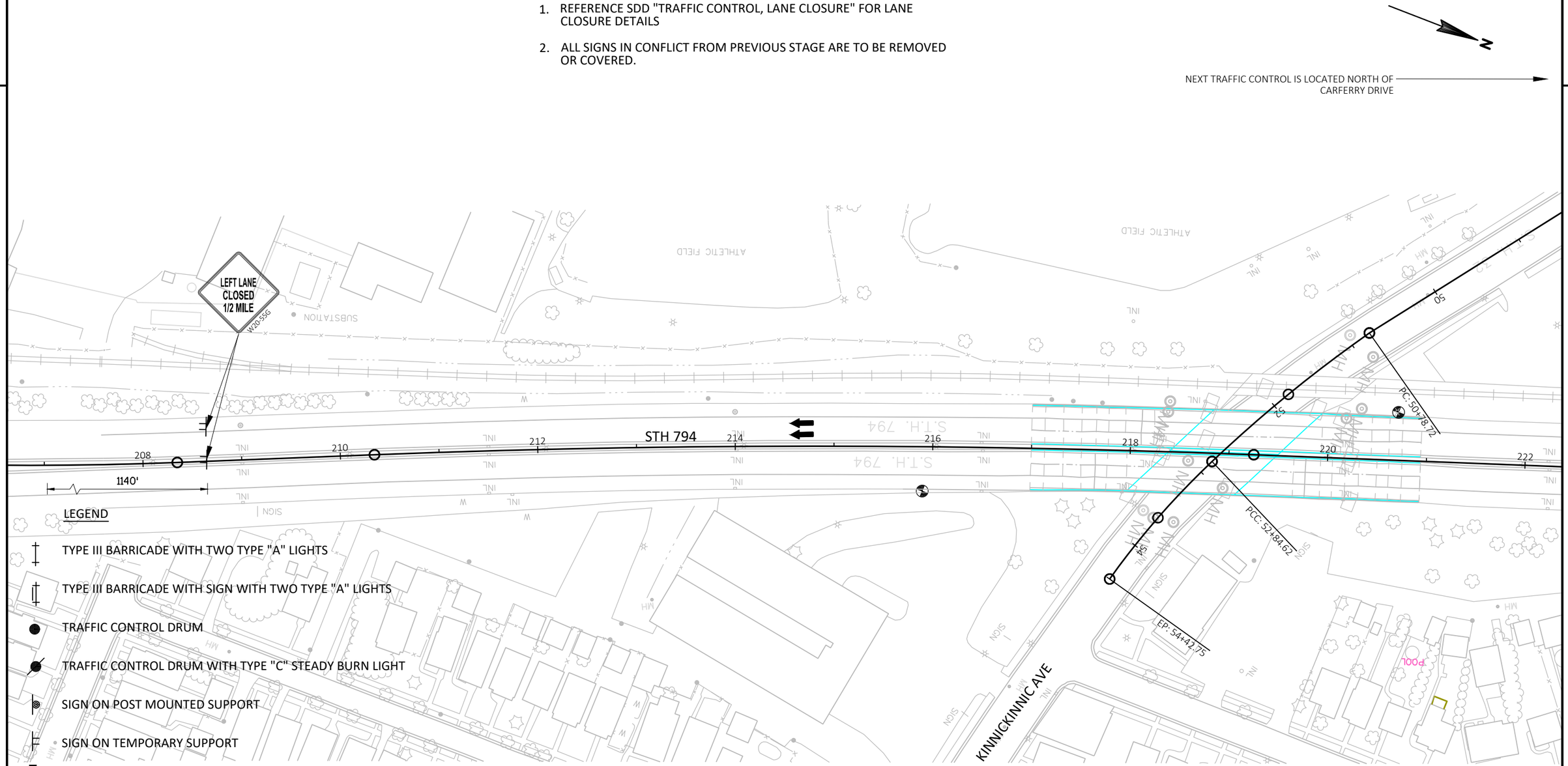
PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - SOUTHBOUND LANES - DAYTIME WORK	SHEET 215	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\026005_TC.DWG
LAYOUT NAME - 026013_tc
PLOT DATE : 10/30/2020 10:39 AM
PLOT BY : MOUNT, JOSHUA
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS
2. ALL SIGNS IN CONFLICT FROM PREVIOUS STAGE ARE TO BE REMOVED OR COVERED.



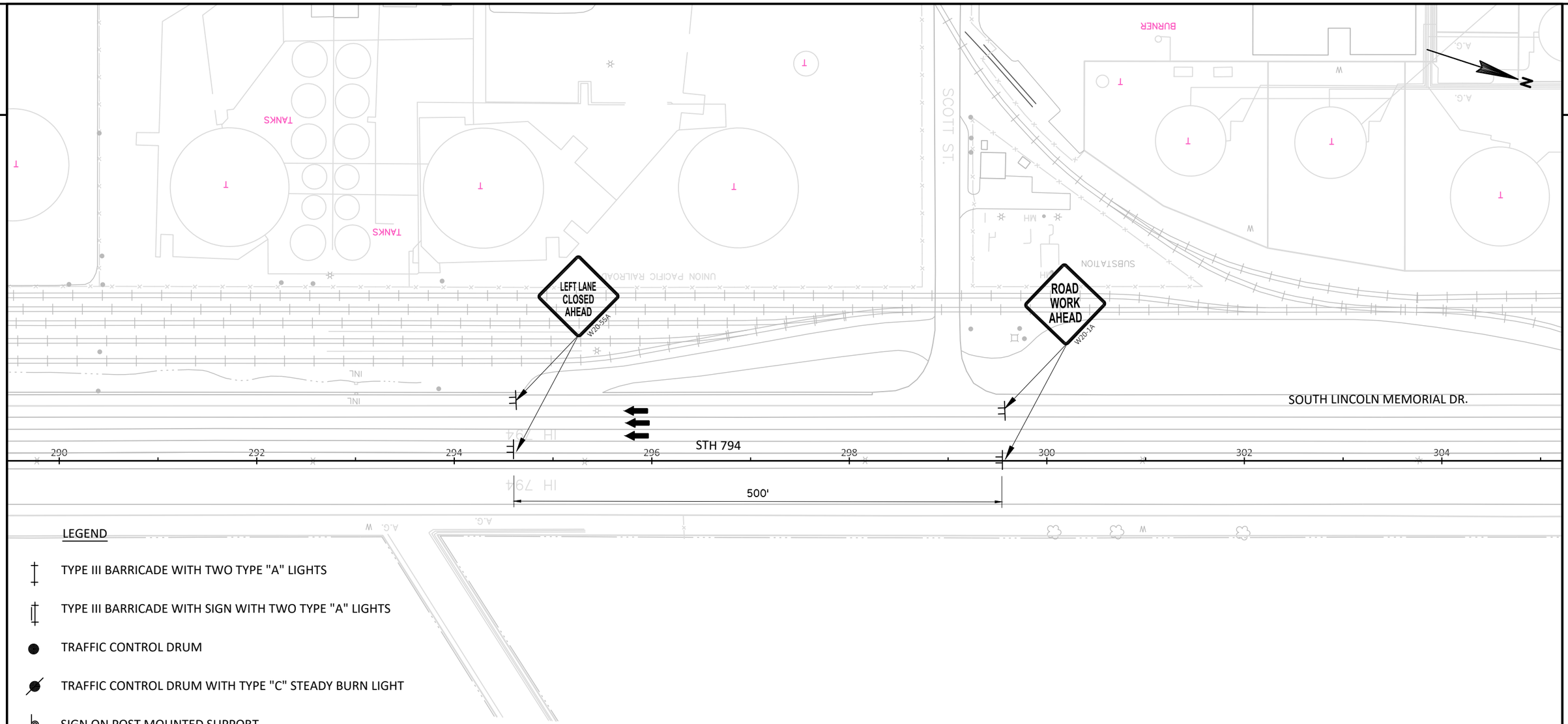
LEGEND

- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - SOUTHBOUND LANES - DAYTIME WORK	SHEET 216	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\026005_TC.DWG
LAYOUT NAME - 026014_tc
PLOT DATE : 10/30/2020 10:39 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



2

LEGEND

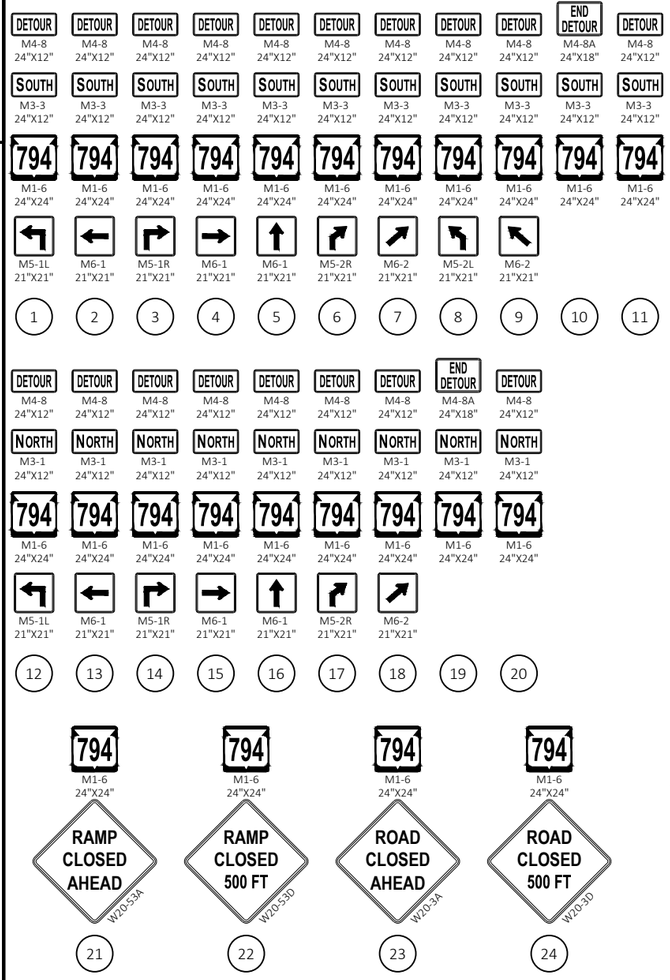
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS
- TYPE III BARRICADE WITH SIGN WITH TWO TYPE "A" LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- SIGN ON POST MOUNTED SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGNS FIXED MESSAGE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- TRAFFIC CONTROL COVERING SIGNS TYPE II
- FLASHING ARROW BOARD

NOTES:

1. REFERENCE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE DETAILS

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - SOUTHBOUND LANES - DAYTIME WORK	SHEET 217	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\026005_TC.DWG
LAYOUT NAME - 026015_tc
PLOT DATE : 10/30/2020 10:40 AM PLOT BY : MOUNT, JOSHUA PLOT NAME : PLOT SCALE : 1 IN:100 FT

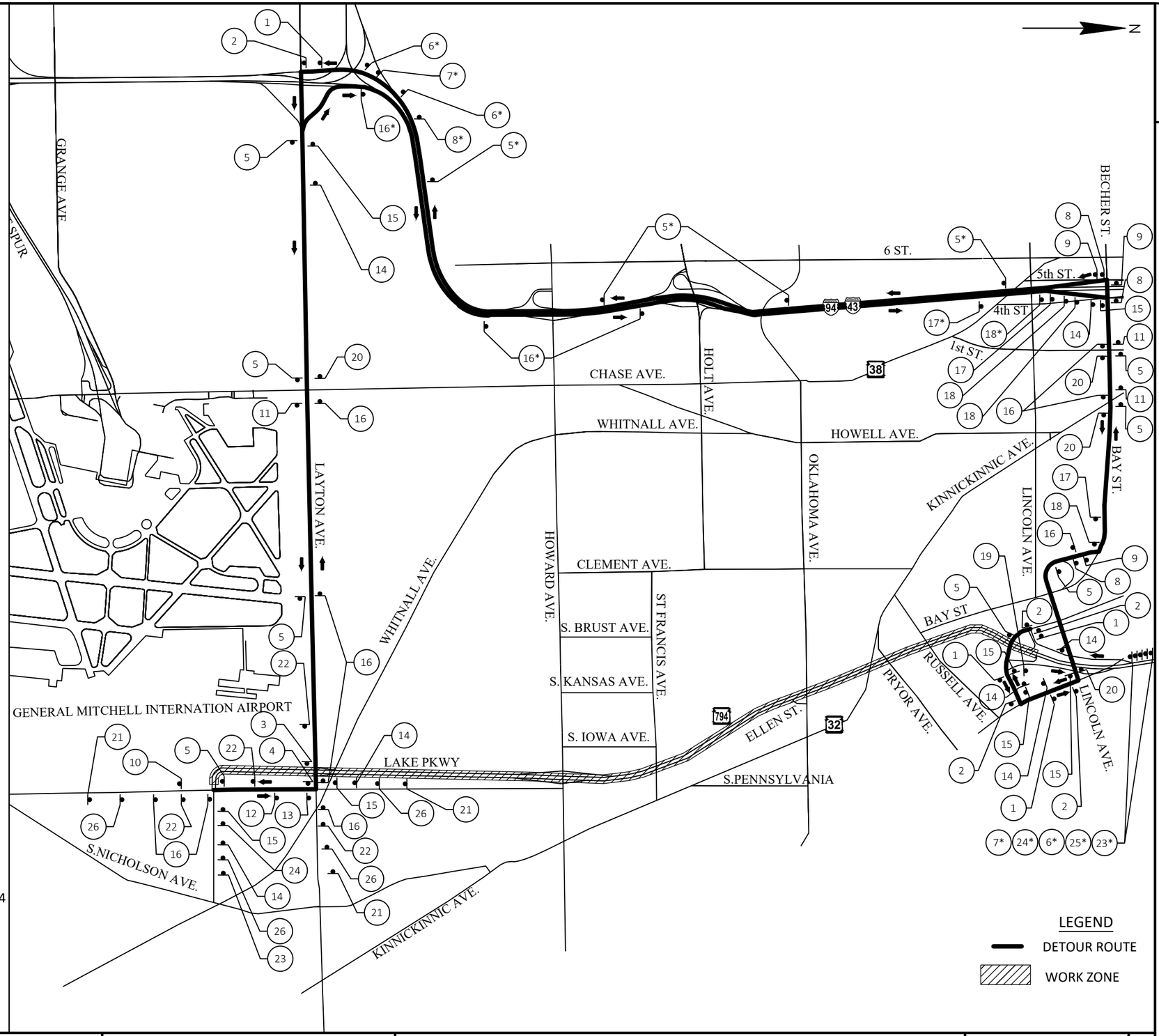


NOTES:

-REFERENCE S.D.D. " BARRICADES AND SIGNS FOR MAINLINE CLOSURES", BARRICADES AND SIGNS FOR VARIOUS CLOSURES", "DETOUR SIGNING FOR MAINLINE CLOSURES", "ON RAMP LANE CLOSURE", AND "OFF RAMP LANE CLOSURE" FOR ADDITIONAL DETAILS.

-SEE ADDITIONAL PLANS FOR RAMP CLOSURES AT STH 794 & PENNSYLVANIA AVE., STH 794 & LAYTON AVE., STH 794 & HOWARD AVE., STH 794 & OKLAHOMA AVE./ELLEN ST., STH 794 & PORT OF MILWAUKEE/CARFERRY DR.

*SIGN SIZE IS TO BE INCREASED AS FOLLOWS:
24" X 12" INCREASED TO 36" X 18"
24" X 24" INCREASED TO 36" X 36"
21" X 21" INCREASED TO 30" X 30"



PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	DETOUR	SHEET 218	E

2

N

CURVE #1

PT: 69+36.26

65

70

75

N7° 17' 24"E
2133.12'

80

STH 794

85

PC: 61+30.94

60

N89° 20' 53"W
417.72'

BP: 57+13.22
N = 267621.775
E = 613909.368

SEC 622125

6
T
N
27
27
27
27
R
E
22

N = 267925.8400
E = 613909.3940

CURVE #1

PI STA = 66+67.19
Y = 267932.630
X = 612955.458
DELTA = 96°38'17"
D = 12°00'00"
T = 536.25'
L = 805.32'
R = 477.46'
PC STA = 61+30.94
Y = 267926.528
X = 613491.677
PT STA = 69+36.26
Y = 268464.548
X = 613023.505
BK = N89°20'52.9"W
AH = N07°17'24.1"E

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET 219	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027201_ad
PLOT DATE : 9/4/2020 1:29 PM
PLOT BY : STARK, GARY W
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

CURVE #2
PI STA = 492+64.50
Y = 270565.604
X = 612992.079
DELTA = 4°46'07"
D = 2°44'57"
T = 86.78'
L = 173.46'
R = 2084.21'
PC STA = 491+77.72
Y = 270573.361
X = 612905.647
PT STA = 493+51.18
Y = 270565.058
X = 613078.857
BK = S84°52'16.9"E
AH = S89°38'23.5"E

CURVE #3
PI STA = 497+48.95
Y = 270562.558
X = 613476.616
DELTA = 6°10'43"
D = 4°15'02"
T = 72.75'
L = 145.36'
R = 1347.97'
PC STA = 496+76.20
Y = 270563.015
X = 613403.868
PT STA = 498+21.56
Y = 270569.933
X = 613548.992
BK = S89°38'23.5"E
AH = N84°10'53.9"E

CURVE #4
PI STA = 500+60.62
Y = 270594.168
X = 613786.822
DELTA = 6°10'34"
D = 4°15'02"
T = 72.72'
L = 145.30'
R = 1347.96'
PC STA = 499+87.90
Y = 270586.796
X = 613714.476
PT STA = 501+33.20
Y = 270593.714
X = 613859.540
BK = N84°10'53.9"E
AH = S89°38'32.5"E

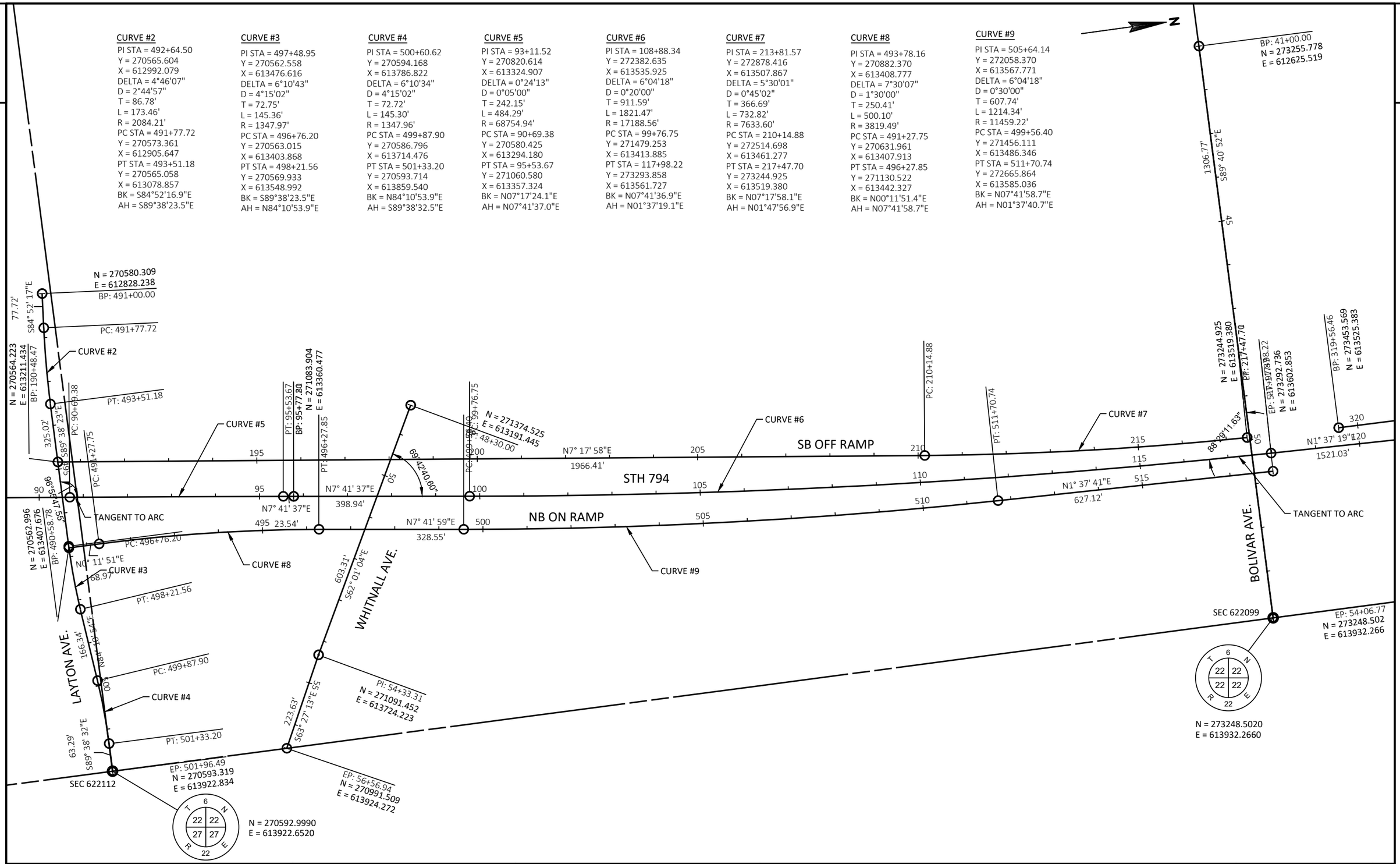
CURVE #5
PI STA = 93+11.52
Y = 270820.614
X = 613324.907
DELTA = 0°24'13"
D = 0°05'00"
T = 242.15'
L = 484.29'
R = 68754.94'
PC STA = 90+69.38
Y = 270580.425
X = 613294.180
PT STA = 95+53.67
Y = 271060.580
X = 613357.324
BK = N07°17'24.1"E
AH = N07°41'37.0"E

CURVE #6
PI STA = 108+88.34
Y = 272382.635
X = 613535.925
DELTA = 6°04'18"
D = 0°20'00"
T = 911.59'
L = 1821.47'
R = 17188.56'
PC STA = 99+76.75
Y = 271479.253
X = 613413.885
PT STA = 117+98.22
Y = 273293.858
X = 613561.727
BK = N07°41'36.9"E
AH = N01°37'19.1"E

CURVE #7
PI STA = 213+81.57
Y = 272878.416
X = 613507.867
DELTA = 5°30'01"
D = 0°45'02"
T = 366.69'
L = 732.82'
R = 7633.60'
PC STA = 210+14.88
Y = 272514.698
X = 613461.277
PT STA = 217+47.70
Y = 273244.925
X = 613519.380
BK = N07°17'58.1"E
AH = N01°47'56.9"E

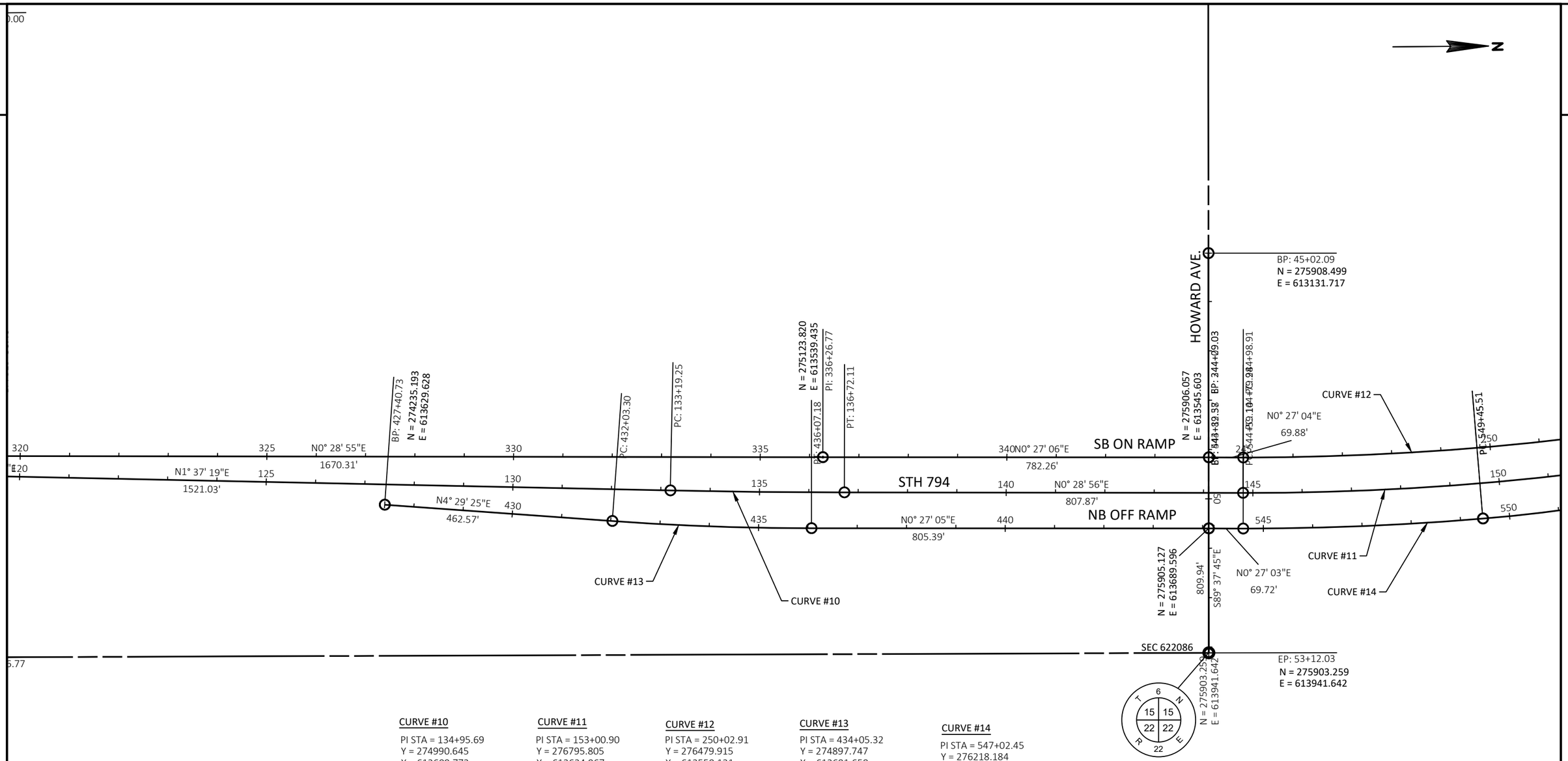
CURVE #8
PI STA = 493+78.16
Y = 270882.370
X = 613408.777
DELTA = 7°30'07"
D = 1°30'00"
T = 250.41'
L = 500.10'
R = 3819.49'
PC STA = 491+27.75
Y = 270631.961
X = 613407.913
PT STA = 496+27.85
Y = 271130.522
X = 613442.327
BK = N00°11'51.4"E
AH = N07°41'58.7"E

CURVE #9
PI STA = 505+64.14
Y = 272058.370
X = 613567.771
DELTA = 6°04'18"
D = 0°30'00"
T = 607.74'
L = 1214.34'
R = 11459.22'
PC STA = 499+56.40
Y = 271456.111
X = 613486.346
PT STA = 511+70.74
Y = 272665.864
X = 613585.036
BK = N07°41'58.7"E
AH = N01°37'40.7"E



PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET 220	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027202_ad
PLOT DATE : 9/4/2020 1:29 PM
PLOT BY : STARK, GARY W
PLOT NAME :
PLOT SCALE : 1 IN:200 FT



CURVE #10

PI STA = 134+95.69
Y = 274990.645
X = 613609.773
DELTA = 1°08'23"
D = 0°19'23"
T = 176.44'
L = 352.87'
R = 17739.20'
PC STA = 133+19.25
Y = 274814.276
X = 613604.779
PT STA = 136+72.11
Y = 275167.079
X = 613611.258
BK = N01°37'19.1"E
AH = N00°28'56.0"E

CURVE #11

PI STA = 153+00.90
Y = 276795.805
X = 613624.967
DELTA = 16°21'35"
D = 1°00'12"
T = 820.92'
L = 1630.66'
R = 5710.98'
PC STA = 144+79.98
Y = 275974.917
X = 613618.058
PT STA = 161+10.65
Y = 277585.403
X = 613400.379
BK = N00°28'56.0"E
AH = N15°52'39.0"W

CURVE #12

PI STA = 250+02.91
Y = 276479.915
X = 613550.121
DELTA = 10°10'51"
D = 1°00'46"
T = 504.00'
L = 1005.35'
R = 5657.92'
PC STA = 244+98.91
Y = 275975.931
X = 613546.154
PT STA = 255+04.25
Y = 276976.666
X = 613464.945
BK = N00°27'03.9"E
AH = N09°43'47.0"W

CURVE #13

PI STA = 434+05.32
Y = 274897.747
X = 613681.658
DELTA = 4°02'19"
D = 1°00'00"
T = 202.02'
L = 403.87'
R = 5729.55'
PC STA = 432+03.30
Y = 274696.347
X = 613665.842
PT STA = 436+07.18
Y = 275099.760
X = 613683.250
BK = N04°29'24.7"E
AH = N00°27'05.2"E

CURVE #14

PI STA = 547+02.45
Y = 276218.184
X = 613692.058
DELTA = 4°48'08"
D = 0°59'14"
T = 243.35'
L = 486.42'
R = 5803.45'
PC STA = 544+59.10
Y = 275974.842
X = 613690.144
PT STA = 549+45.51
Y = 276460.833
X = 613673.594
BK = N00°27'02.6"E
AH = N04°21'05.5"W

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET 221	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027203_ad
PLOT DATE : 9/4/2020 1:29 PM
PLOT BY : STARK, GARY W
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

2

CURVE #12
PI STA = 250+02.91
Y = 276479.915
X = 613550.121
DELTA = 10°10'51"
D = 1°00'46"
T = 504.00'
L = 1005.35'
R = 5657.92'
PC STA = 244+98.91
Y = 275975.931
X = 613546.154
PT STA = 255+04.25
Y = 276976.666
X = 613464.945
BK = N00°27'03.9"E
AH = N09°43'47.0"W

CURVE #15
PI STA = 153+00.90
Y = 276795.805
X = 613624.967
DELTA = 16°21'35"
D = 1°00'12"
T = 820.92'
L = 1630.66'
R = 5710.98'
PC STA = 144+79.98
Y = 275974.917
X = 613618.058
PT STA = 161+10.65
Y = 277585.403
X = 613400.379
BK = N00°28'56.0"E
AH = N15°52'39.0"W

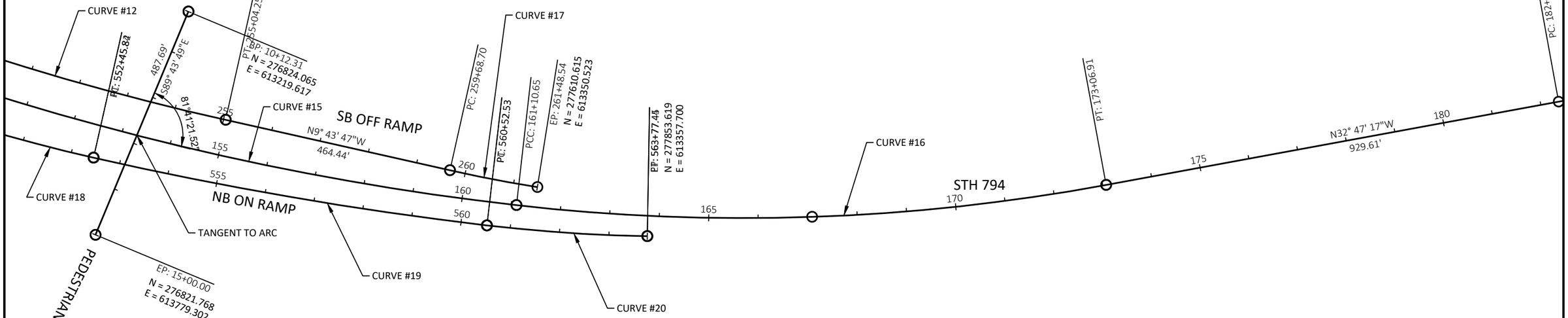
CURVE #16
PI STA = 167+13.16
Y = 278164.942
X = 613235.583
DELTA = 16°54'53"
D = 1°24'50"
T = 602.51'
L = 1196.26'
R = 4052.18'
PC STA = 161+10.65
Y = 277585.403
X = 613400.379
PT STA = 173+06.91
Y = 278671.464
X = 612909.302
BK = N15°52'24.4"W
AH = N32°47'16.9"W

CURVE #17
PI STA = 260+58.65
Y = 277523.086
X = 613371.252
DELTA = 3°35'38"
D = 1°59'54"
T = 89.95'
L = 179.84'
R = 2867.07'
PC STA = 259+68.70
Y = 277434.430
X = 613386.454
PT STA = 261+48.54
Y = 277610.615
X = 613350.523
BK = N09°43'47.0"W
AH = N13°19'25.3"W

CURVE #18
PI STA = 550+95.77
Y = 276610.662
X = 613662.193
DELTA = 5°15'25"
D = 1°45'02"
T = 150.26'
L = 300.31'
R = 3273.12'
PC STA = 549+45.51
Y = 276460.835
X = 613673.594
PT STA = 552+45.82
Y = 276758.814
X = 613637.113
BK = N04°21'05.5"W
AH = N09°36'30.3"W

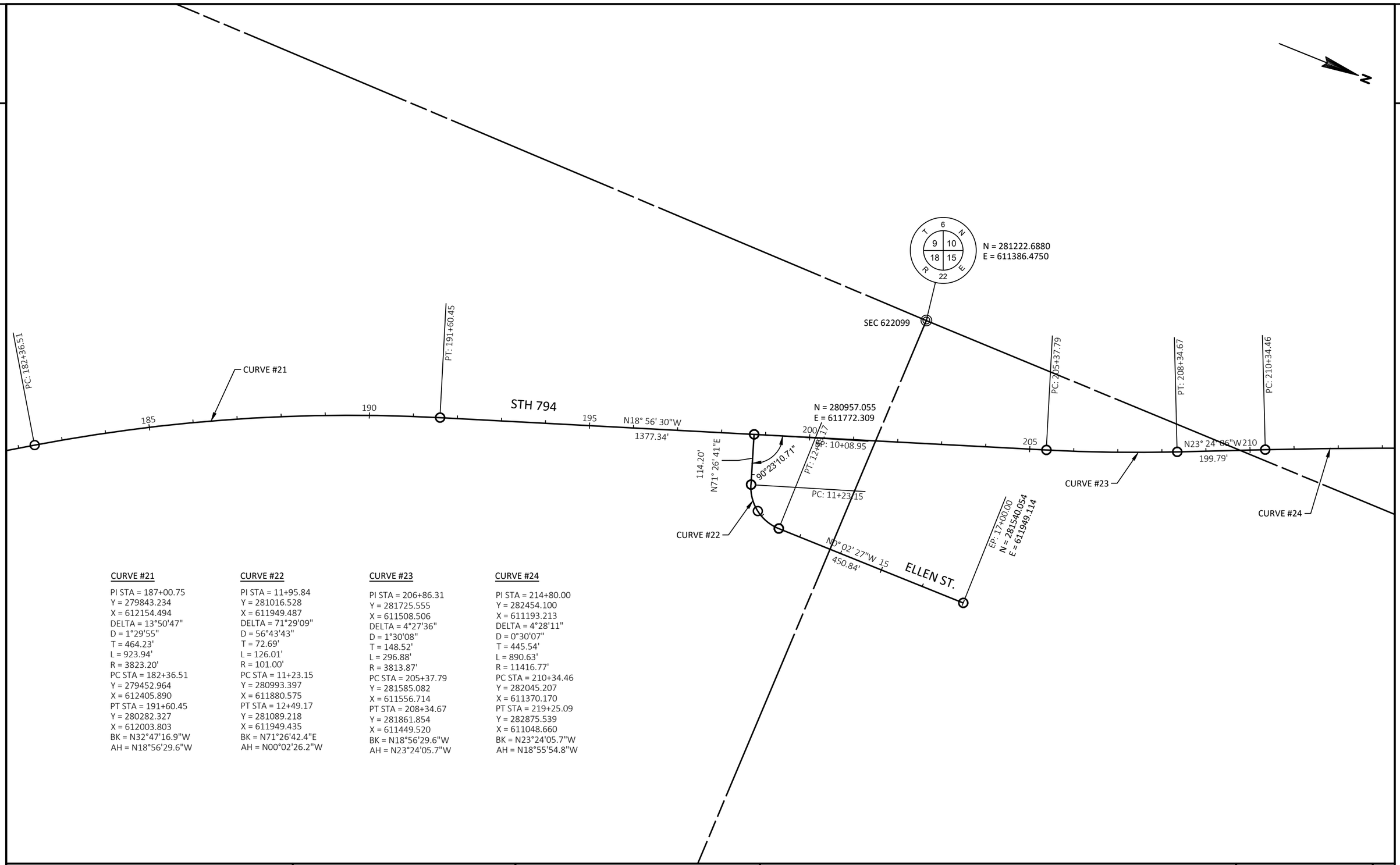
CURVE #19
PI STA = 556+49.56
Y = 277156.886
X = 613569.724
DELTA = 6°02'58"
D = 0°45'00"
T = 403.72'
L = 806.69'
R = 7640.50'
PC STA = 552+45.84
Y = 276758.830
X = 613637.110
PT STA = 560+52.53
Y = 277545.623
X = 613460.764
BK = N09°36'30.3"W
AH = N15°39'27.9"W

CURVE #20
PI STA = 562+15.12
Y = 277702.182
X = 613416.882
DELTA = 5°41'16"
D = 1°45'02"
T = 162.59'
L = 324.91'
R = 3273.07'
PC STA = 560+52.53
Y = 277545.626
X = 613460.763
PT STA = 563+77.44
Y = 277853.619
X = 613357.700
BK = N15°39'27.9"W
AH = N21°20'43.5"W



PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET 222	E

2



CURVE #21

PI STA = 187+00.75
Y = 279843.234
X = 612154.494
DELTA = 13°50'47"
D = 1°29'55"
T = 464.23'
L = 923.94'
R = 3823.20'
PC STA = 182+36.51
Y = 279452.964
X = 612405.890
PT STA = 191+60.45
Y = 280282.327
X = 612003.803
BK = N32°47'16.9"W
AH = N18°56'29.6"W

CURVE #22

PI STA = 11+95.84
Y = 281016.528
X = 611949.487
DELTA = 71°29'09"
D = 56°43'43"
T = 72.69'
L = 126.01'
R = 101.00'
PC STA = 11+23.15
Y = 280993.397
X = 611880.575
PT STA = 12+49.17
Y = 281089.218
X = 611949.435
BK = N71°26'42.4"E
AH = N00°02'26.2"W

CURVE #23

PI STA = 206+86.31
Y = 281725.555
X = 611508.506
DELTA = 4°27'36"
D = 1°30'08"
T = 148.52'
L = 296.88'
R = 3813.87'
PC STA = 205+37.79
Y = 281585.082
X = 611556.714
PT STA = 208+34.67
Y = 281861.854
X = 611449.520
BK = N18°56'29.6"W
AH = N23°24'05.7"W

CURVE #24

PI STA = 214+80.00
Y = 282454.100
X = 611193.213
DELTA = 4°28'11"
D = 0°30'07"
T = 445.54'
L = 890.63'
R = 11416.77'
PC STA = 210+34.46
Y = 282045.207
X = 611370.170
PT STA = 219+25.09
Y = 282875.539
X = 611048.660
BK = N23°24'05.7"W
AH = N18°55'54.8"W

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET 223	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027205_ad
PLOT DATE : 9/4/2020 1:29 PM
PLOT BY : STARK, GARY W
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

2

N

KINNICKINNIE AVE.

284.59'

05553° 15' 11"E

BP: 47494.12

N = 283110.459

E = 610663.368

CURVE #26

PT: 219+25.09

CURVE #24

TANGENT TO ARC

45°8'15.20"

PC: 50+78.72

215

220

N18° 55' 55"W

687.93'

225

PC: 226+13.01

PT: 228+55.22

230

STH 794

235

N20° 57' 13"W

1558.88'

240

0.00'

S20° 56' 4

PI: 244+14.10

CURVE #25

PCC: 52+84.62

EP: 54+42.75

N = 282784.883

E = 611218.764

CURVE #27

PC: 244+14.10

SEC 622046

T 6 N

9 10

9 10

R 22 E

N = 28376.8280

E = 611408.6180

CURVE #24

PI STA = 214+80.00
Y = 282454.100
X = 611193.213
DELTA = 4°28'11"
D = 0°30'07"
T = 445.54'
L = 890.63'
R = 11416.77'
PC STA = 210+34.46
Y = 282045.207
X = 611370.170
PT STA = 219+25.09
Y = 282875.539
X = 611048.660
BK = N23°24'05.7"W
AH = N18°55'54.8"W

CURVE #25

PI STA = 53+63.93
Y = 282804.557
X = 611141.931
DELTA = 11°04'08"
D = 7°00'00"
T = 79.31'
L = 158.13'
R = 818.53'
PC STA = 52+84.62
Y = 282838.617
X = 611070.305
PT STA = 54+42.75
Y = 282784.883
X = 611218.764
BK = S64°34'04.2"E
AH = S75°38'12.2"E

CURVE #26

PI STA = 51+81.85
Y = 282882.897
X = 610977.162
DELTA = 8°19'21"
D = 4°02'31"
T = 103.13'
L = 205.90'
R = 1417.52'
PC STA = 50+78.72
Y = 282940.192
X = 610891.409
PT STA = 52+84.62
Y = 282838.617
X = 611070.305
BK = S56°15'05.2"E
AH = S64°34'26.3"E

CURVE #27

PI STA = 227+34.13
Y = 283640.815
X = 610786.171
DELTA = 2°01'18"
D = 0°50'05"
T = 121.12'
L = 242.21'
R = 6864.12'
PC STA = 226+13.01
Y = 283526.251
X = 610825.466
PT STA = 228+55.22
Y = 283753.921
X = 610742.858
BK = N18°55'54.8"W
AH = N20°57'13.1"W

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET 224	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027206_ad

PLOT DATE : 9/4/2020 1:29 PM PLOT BY : STARK, GARY W PLOT NAME : PLOT SCALE : 1 IN:200 FT

CURVE #28
PI STA = 249+72.43
Y = 285731.12
X = 611206.803
DELTA = 54°5'9.27"
D = 5°14'18.5"
T = 558.327'
L = 1032.475'
R = 1093.75'
PC STA = 244+14.1
Y = 285209.715
X = 610185.383
PT STA = 254+46.58
Y = 286198.669
X = 610290.885
BK = N20°57'13.06"W
AH = N33°7'56.21"E

CURVE #29
PI STA = 448+35.59
Y = 285597.648
X = 610022.598
DELTA = 30°32'18"
D = 5°03'34"
T = 309.15'
L = 603.59'
R = 1132.45'
PC STA = 445+26.44
Y = 285301.294
X = 610110.612
PT STA = 451+30.03
Y = 285897.616
X = 610097.373
BK = N16°32'27.2"W
AH = N13°59'50.4"E

CURVE #30
PI STA = 453+13.66
Y = 286075.796
X = 610141.789
DELTA = 17°41'48"
D = 4°51'26"
T = 183.63'
L = 364.34'
R = 1179.60'
PC STA = 451+30.03
Y = 285897.618
X = 610097.373
PT STA = 454+94.37
Y = 286232.040
X = 610238.265
BK = N13°59'50.6"E
AH = N31°41'38.5"E

CURVE #31
PI STA = 453+13.66
Y = 286075.796
X = 610141.789
DELTA = 17°41'48"
D = 4°51'26"
T = 183.63'
L = 364.34'
R = 1179.60'
PC STA = 451+30.03
Y = 285897.618
X = 610097.373
PT STA = 454+94.37
Y = 286232.040
X = 610238.265
BK = N13°59'50.6"E
AH = N31°41'38.5"E

CURVE #32
PI STA = 460+13.96
Y = 286674.144
X = 610511.247
DELTA = 135°06'50"
D = 55°37'37"
T = 249.36'
L = 242.89'
R = 103.00'
PC STA = 457+64.59
Y = 286461.967
X = 610380.237
PT STA = 460+07.49
Y = 286616.268
X = 610268.692
BK = N31°41'36.7"E
AH = S76°34'46.8"W

CURVE #33
PI STA = 549+17.36
Y = 285697.275
X = 610161.251
DELTA = 10°49'50"
D = 3°30'00"
T = 155.18'
L = 309.44'
R = 1637.00'
PC STA = 547+62.18
Y = 285542.259
X = 610154.054
PT STA = 550+71.62
Y = 285848.178
X = 610197.449
BK = N02°39'30.2"E
AH = N13°29'20.5"E

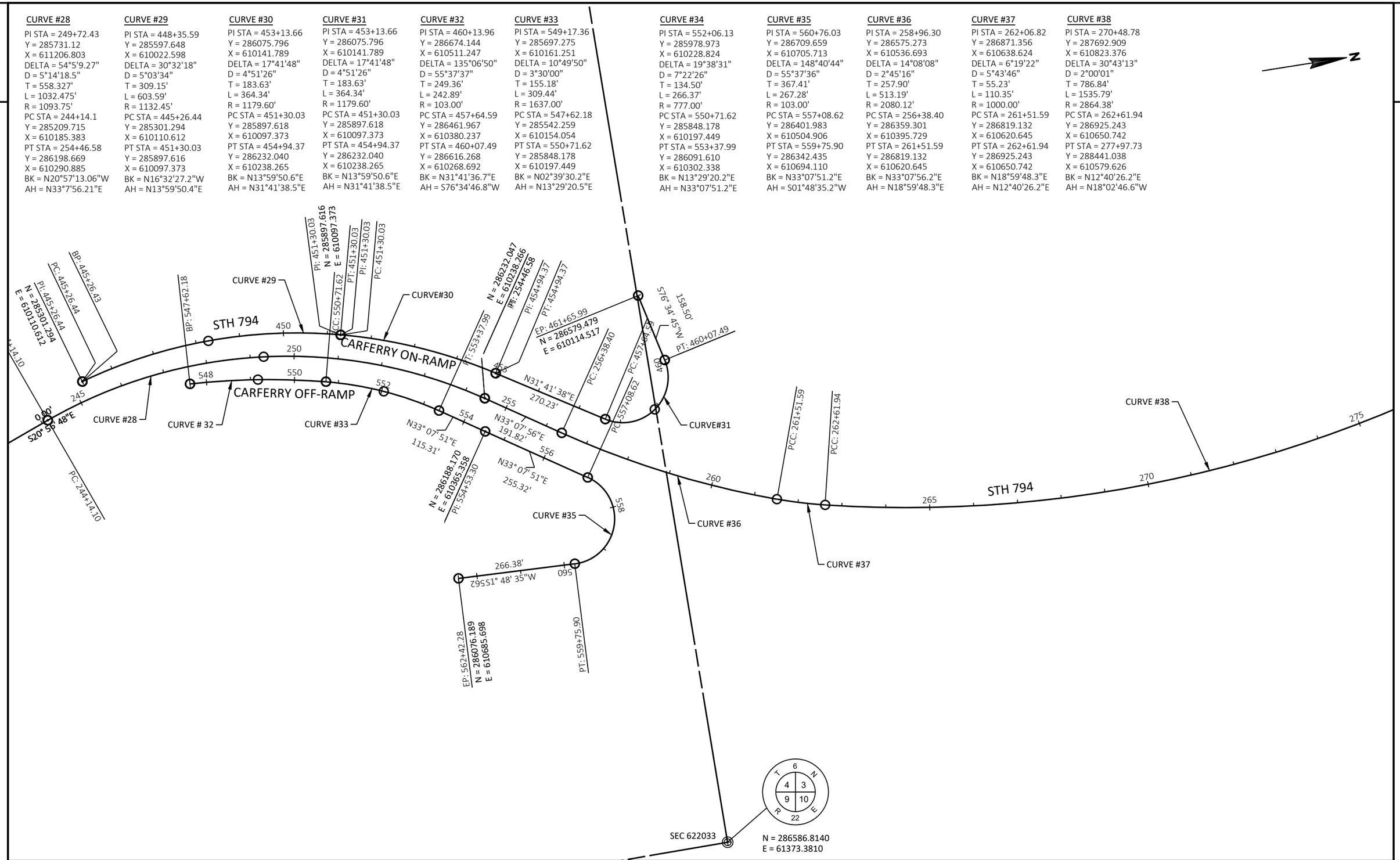
CURVE #34
PI STA = 552+06.13
Y = 285978.973
X = 610228.824
DELTA = 19°38'31"
D = 7°22'26"
T = 134.50'
L = 266.37'
R = 777.00'
PC STA = 550+71.62
Y = 285848.178
X = 610197.449
PT STA = 553+37.99
Y = 286091.610
X = 610302.338
BK = N13°29'20.2"E
AH = N33°07'51.2"E

CURVE #35
PI STA = 560+76.03
Y = 286709.659
X = 610705.713
DELTA = 148°40'44"
D = 55°37'36"
T = 367.41'
L = 267.28'
R = 103.00'
PC STA = 557+08.62
Y = 286401.983
X = 610504.906
PT STA = 559+75.90
Y = 286342.435
X = 610694.110
BK = N33°07'51.2"E
AH = S01°48'35.2"W

CURVE #36
PI STA = 258+96.30
Y = 286575.273
X = 610536.693
DELTA = 14°08'08"
D = 2°45'16"
T = 257.90'
L = 513.19'
R = 2080.12'
PC STA = 256+38.40
Y = 286359.301
X = 610395.729
PT STA = 261+51.59
Y = 286819.132
X = 610620.645
BK = N33°07'56.2"E
AH = N18°59'48.3"E

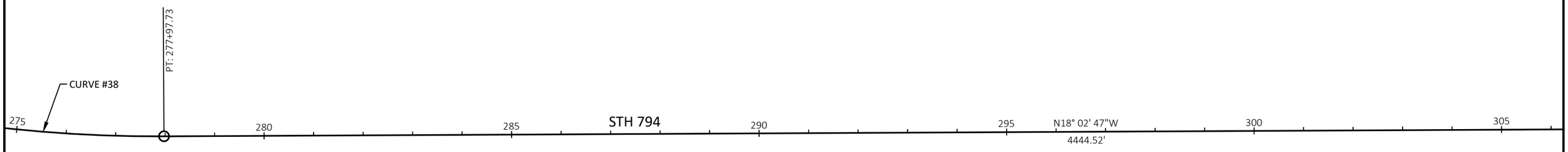
CURVE #37
PI STA = 262+06.82
Y = 286871.356
X = 610638.624
DELTA = 6°19'22"
D = 5°43'46"
T = 55.23'
L = 110.35'
R = 1000.00'
PC STA = 261+51.59
Y = 286819.132
X = 610620.645
PT STA = 262+61.94
Y = 286925.243
X = 610650.742
BK = N18°59'48.3"E
AH = N12°40'26.2"E

CURVE #38
PI STA = 270+48.78
Y = 287692.909
X = 610823.376
DELTA = 30°43'13"
D = 2°00'01"
T = 786.84'
L = 1535.79'
R = 2864.38'
PC STA = 262+61.94
Y = 286925.243
X = 610650.742
PT STA = 277+97.73
Y = 288441.038
X = 610579.626
BK = N12°40'26.2"E
AH = N18°02'46.6"W



PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET 225	E

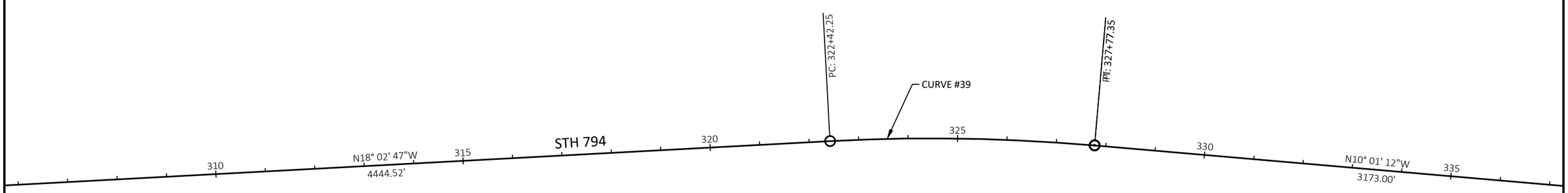
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CURVE #38
PI STA = 270+48.78
Y = 287692.909
X = 610823.376
DELTA = 30°43'13"
D = 2°00'01"
T = 786.84'
L = 1535.79'
R = 2864.38'
PC STA = 262+61.94
Y = 286925.243
X = 610650.742
PT STA = 277+97.73
Y = 288441.038
X = 610579.626
BK = N12°40'26.2"E
AH = N18°02'46.6"W

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET 226	E

2



CURVE #39

PI STA = 325+10.24
Y = 292921.719
X = 609119.762
DELTA = 8°01'35"
D = 1°30'00"
T = 267.98'
L = 535.09'
R = 3819.72'
PC STA = 322+42.25
Y = 292666.917
X = 609202.780
PT STA = 327+77.35
Y = 293185.616
X = 609073.135
BK = N18°02'46.6"W
AH = N10°01'11.6"W

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET 227	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027209_ad
PLOT DATE : 9/4/2020 1:29 PM
PLOT BY : STARK, GARY W
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

N

EP: 359+50.35
N = 296310.223
E = 608521.064

340 345 N10° 01' 12"W 350 STH 794 355

3173.00'

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET 228	E

FILE NAME : N:\PDS\C3D\13000302\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027210_ad

PLOT DATE : 9/4/2020 1:29 PM PLOT BY : STARK, GARY W PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

1300-03-72

Line	Item	Item Description	Unit	Total	Qty
0002	203.0200	Removing Old Structure (station) 01. 174'LA'+95, RT	LS	1.000	1.000
0004	203.0200	Removing Old Structure (station) 02. 23'E'+70, LT	LS	1.000	1.000
0006	203.0200	Removing Old Structure (station) 03. 206'LA'+92, RT	LS	1.000	1.000
0008	203.0200	Removing Old Structure (station) 04. 223'LA'+87, RT	LS	1.000	1.000
0010	204.0100	Removing Concrete Pavement	SY	0.400	0.400
0012	204.0105	Removing Pavement Butt Joints	SY	3,184.000	3,184.000
0014	204.0150	Removing Curb & Gutter	LF	78.000	78.000
0016	204.0155	Removing Concrete Sidewalk	SY	8.000	8.000
0018	204.0195	Removing Concrete Bases	EACH	17.000	17.000
0020	204.9060.S	Removing (item description) 11. Lighting Units	EACH	7.000	7.000
0022	204.9060.S	Removing (item description) 12. Sign Lighting	EACH	2.000	2.000
0024	204.9090.S	Removing (item description) 11. Electrical Wires from Conduit	LF	875.000	875.000
0026	204.9105.S	Removing (item description) 30. Traffic Signals STH 794 & Ellen St	LS	1.000	1.000
0028	204.9105.S	Removing (item description) 31. Loop Detector Wire & Lead-In Cable STH 794 & S Pennsylvania Ave	LS	1.000	1.000
0030	204.9105.S	Removing (item description) 32. Loop Detector Wire & Lead-In Cable STH 794 & Layton Ave	LS	1.000	1.000
0032	204.9105.S	Removing (item description) 33. Loop Detector Wire & Lead-In Cable STH 794 & Ellen St	LS	1.000	1.000
0034	213.0100	Finishing Roadway (project) 01. 1300-03-72	EACH	1.000	1.000
0036	390.0403	Base Patching Concrete Shes	SY	13,769.000	13,769.000
0038	415.0070	Concrete Pavement 7-Inch	SY	0.400	0.400
0040	416.0610	Drilled Tie Bars	EACH	4,561.000	4,561.000
0042	416.0620	Drilled Dowel Bars	EACH	31,863.000	31,863.000
0044	416.1725	Concrete Pavement Replacement SHES	SY	1,500.000	1,500.000
0046	455.0605	Tack Coat	GAL	20,657.000	20,657.000
0048	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0050	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0052	460.2000	Incentive Density HMA Pavement	DOL	3,710.000	3,710.000
0054	460.2005	Incentive Density PWL HMA Pavement	DOL	23,130.000	23,130.000
0056	460.2010	Incentive Air Voids HMA Pavement	DOL	31,537.000	31,537.000
0058	460.6223	HMA Pavement 3 MT 58-28 S	TON	3,710.000	3,710.000
0060	460.6224	HMA Pavement 4 MT 58-28 S	TON	31,537.000	31,537.000
0062	517.3000.S	Structure Overcoating Cleaning and Priming (structure) 01. N-40-29	LS	1.000	1.000
0064	517.3000.S	Structure Overcoating Cleaning and Priming (structure) 02. N-40-30	LS	1.000	1.000
0066	517.3000.S	Structure Overcoating Cleaning and Priming (structure) 03. N-40-31	LS	1.000	1.000

Line	Item	Item Description	Unit	Total	Qty
0068	517.3000.S	Structure Overcoating Cleaning and Priming (structure) 04. N-40-32	LS	1.000	1.000
0070	602.0410	Concrete Sidewalk 5-Inch	SF	410.000	410.000
0072	611.0648	Inlet Covers Type R	EACH	2.000	2.000
0074	611.8110	Adjusting Manhole Covers	EACH	1.000	1.000
0076	611.8115	Adjusting Inlet Covers	EACH	2.000	2.000
0078	611.8120.S	Cover Plates Temporary	EACH	66.000	66.000
0080	619.1000	Mobilization	EACH	1.000	1.000
0082	625.0100	Topsoil	SY	26.000	26.000
0084	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0086	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0088	628.2008	Erosion Mat Urban Class I Type B	SY	26.000	26.000
0090	628.7015	Inlet Protection Type C	EACH	291.000	291.000
0092	629.0210	Fertilizer Type B	CWT	1.620	1.620
0094	630.0140	Seeding Mixture No. 40	LB	0.460	0.460
0096	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	22.000	22.000
0098	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	5.000	5.000
0100	635.0300	Sign Supports Replacing Base Connection Bolts	EACH	14.000	14.000
0102	637.1220	Signs Type I Reflective SH	SF	984.500	984.500
0104	637.2210	Signs Type II Reflective H	SF	190.000	190.000
0106	637.2215	Signs Type II Reflective H Folding	SF	44.760	44.760
0108	637.2230	Signs Type II Reflective F	SF	35.000	35.000
0110	638.2102	Moving Signs Type II	EACH	7.000	7.000
0112	638.2601	Removing Signs Type I	EACH	18.000	18.000
0114	638.2602	Removing Signs Type II	EACH	9.000	9.000
0116	642.5401	Field Office Type D	EACH	1.000	1.000
0118	643.0300	Traffic Control Drums	DAY	93,600.000	93,600.000
0120	643.0420	Traffic Control Barricades Type III	DAY	8,900.000	8,900.000
0122	643.0705	Traffic Control Warning Lights Type A	DAY	17,700.000	17,700.000
0124	643.0715	Traffic Control Warning Lights Type C	DAY	8,600.000	8,600.000
0126	643.0800	Traffic Control Arrow Boards	DAY	900.000	900.000
0128	643.0900	Traffic Control Signs	DAY	118,700.000	118,700.000
0130	643.0920	Traffic Control Covering Signs Type II	EACH	2,979.000	2,979.000
0132	643.1050	Traffic Control Signs PCMS	DAY	2,800.000	2,800.000
0134	643.5000	Traffic Control	EACH	1.000	1.000
0136	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	98,648.000	98,648.000
0138	646.1555	Marking Line Grooved Contrast Permanent Tape 4-Inch	LF	10,966.000	10,966.000
0140	646.3555	Marking Line Grooved Contrast Permanent Tape 8-Inch	LF	16,724.000	16,724.000
0142	646.5020	Marking Arrow Epoxy	EACH	39.000	39.000
0144	646.5120	Marking Word Epoxy	EACH	20.000	20.000

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Line	Item	Item Description	Unit	Total	Qty
0146	646.6120	Marking Stop Line Epoxy 18-Inch	LF	160.000	160.000
0148	646.7120	Marking Diagonal Epoxy 12-Inch	LF	4,825.000	4,825.000
0150	646.7220	Marking Chevron Epoxy 24-Inch	LF	1,376.000	1,376.000
0152	646.8220	Marking Island Nose Epoxy	EACH	3.000	3.000
0154	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	12,183.000	12,183.000
0156	646.9110	Marking Removal Line Water Blasting 8-Inch	LF	3,384.000	3,384.000
0158	646.9310	Marking Removal Special Marking Water Blasting	EACH	46.000	46.000
0160	649.0105	Temporary Marking Line Paint 4-Inch	LF	237,030.000	237,030.000
0162	649.0205	Temporary Marking Line Paint 8-Inch	LF	33,836.000	33,836.000
0164	649.0505	Temporary Marking Arrow Paint	EACH	22.000	22.000
0166	649.0605	Temporary Marking Word Paint	EACH	24.000	24.000
0168	649.0805	Temporary Marking Stop Line Paint 18-Inch	LF	286.000	286.000
0170	650.8000	Construction Staking Resurfacing Reference	LF	28,649.000	28,649.000
0172	650.8500	Construction Staking Electrical Installations (project) 01. 1300-03-72	LS	1.000	1.000
0174	650.9910	Construction Staking Supplemental Control (project) 01. 1300-03-72	LS	1.000	1.000
0176	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	1,217.000	1,217.000
0178	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	405.000	405.000
0180	652.0615	Conduit Special 3-Inch	LF	978.000	978.000
0182	652.0700.S	Install Conduit into Existing Item	EACH	6.000	6.000
0184	652.0800	Conduit Loop Detector	LF	1,558.000	1,558.000
0186	653.0135	Pull Boxes Steel 24x36-Inch	EACH	3.000	3.000
0188	653.0140	Pull Boxes Steel 24x42-Inch	EACH	17.000	17.000
0190	653.0905	Removing Pull Boxes	EACH	13.000	13.000
0192	654.0101	Concrete Bases Type 1	EACH	8.000	8.000
0194	654.0102	Concrete Bases Type 2	EACH	2.000	2.000
0196	654.0105	Concrete Bases Type 5	EACH	2.000	2.000
0198	654.0113	Concrete Bases Type 13	EACH	2.000	2.000
0200	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	1.000	1.000
0202	655.0230	Cable Traffic Signal 5-14 AWG	LF	647.000	647.000
0204	655.0240	Cable Traffic Signal 7-14 AWG	LF	3,608.000	3,608.000
0206	655.0260	Cable Traffic Signal 12-14 AWG	LF	433.000	433.000
0208	655.0320	Cable Type UF 2-10 AWG Grounded	LF	873.000	873.000
0210	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	6,224.000	6,224.000
0212	655.0610	Electrical Wire Lighting 12 AWG	LF	954.000	954.000
0214	655.0620	Electrical Wire Lighting 8 AWG	LF	2,815.000	2,815.000
0216	655.0630	Electrical Wire Lighting 4 AWG	LF	2,070.000	2,070.000
0218	655.0640	Electrical Wire Lighting 1 AWG	LF	18.000	18.000
0220	655.0700	Loop Detector Lead In Cable	LF	5,659.000	5,659.000

Line	Item	Item Description	Unit	Total	Qty
0222	655.0800	Loop Detector Wire	LF	5,642.000	5,642.000
0224	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. STH 794 & Ellen St	LS	1.000	1.000
0226	657.0100	Pedestal Bases	EACH	8.000	8.000
0228	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	4.000	4.000
0230	657.0310	Poles Type 3	EACH	2.000	2.000
0232	657.0322	Poles Type 5-Aluminum	EACH	2.000	2.000
0234	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	8.000	8.000
0236	657.0609	Luminaire Arms Single Member 4-Inch Clamp 6-FT	EACH	3.000	3.000
0238	657.0715	Luminaire Arms Truss Type 4 1/2-Inch Clamp 15-FT	EACH	2.000	2.000
0240	658.0171	Traffic Signal Face 1S 12-Inch	EACH	6.000	6.000
0242	658.0173	Traffic Signal Face 3S 12-Inch	EACH	13.000	13.000
0244	658.5069	Signal Mounting Hardware (location) 01. STH 794 & Ellen St	LS	1.000	1.000
0246	659.1125	Luminaires Utility LED C	EACH	7.000	7.000
0248	670.0100	Field System Integrator 01. 1300-03-72 Traffic Signal Interconnect	LS	1.000	1.000
0250	670.0100	Field System Integrator 20. 1300-03-72 FTMS	LS	1.000	1.000
0252	670.0200	ITS Documentation 01. 1300-03-72 Traffic Signal Interconnect	LS	1.000	1.000
0254	670.0200	ITS Documentation 20. 1300-03-72 FTMS	LS	1.000	1.000
0256	674.0300	Remove Cable	LF	360.000	360.000
0258	678.0006	Install Fiber Optic Cable Outdoor Plant 6-CT	LF	1,175.000	1,175.000
0260	678.0036	Install Fiber Optic Cable Outdoor Plant 36-CT	LF	4,541.000	4,541.000
0262	678.0200	Fiber Optic Splice Enclosure	EACH	2.000	2.000
0264	678.0300	Fiber Optic Splice	EACH	18.000	18.000
0266	678.0400	Fiber Optic Termination	EACH	10.000	10.000
0268	678.0500	Communication System Testing 01. 1300-03-72 Traffic Signal Interconnect	LS	1.000	1.000
0270	678.0500	Communication System Testing 20. 1300-03-72 FTMS	LS	1.000	1.000
0272	678.0600	Install Ethernet Switches	EACH	2.000	2.000
0274	690.0150	Sawing Asphalt	LF	332.000	332.000
0276	690.0250	Sawing Concrete	LF	44,053.000	44,053.000
0278	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	3,200.000	3,200.000
0280	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	7,200.000	7,200.000
0282	SPV.0035	Special 01. Monolithic Shim Concrete SHES	CY	99.000	99.000
0284	SPV.0060	Special 01. Precast Sound Barrier Panel Support Repair	EACH	110.000	110.000
0286	SPV.0060	Special 30. Install Poles Type 12	EACH	1.000	1.000
0288	SPV.0060	Special 31. Install Poles Type 13	EACH	1.000	1.000
0290	SPV.0060	Special 32. Install Monotube Arms 50-Ft	EACH	1.000	1.000
0292	SPV.0060	Special 33. Install Monotube Arms 55-Ft	EACH	1.000	1.000

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Line	Item	Item Description	Unit	Total	Qty
0294	SPV.0060	Special 34. Install Luminaire Arms Steel 15-Ft	EACH	1.000	1.000
0296	SPV.0060	Special 35. Install Luminaire Arms Steel 15-Ft Clamp-On	EACH	1.000	1.000
0298	SPV.0090	Special 01. Vinyl Coated Chain Link Fence Repair	LF	445.000	445.000
0300	SPV.0090	Special 02. Traffic Channelizing Curb System	LF	105.000	105.000
0302	SPV.0090	Special 03. Sawing Concrete Curb Head	LF	75.000	75.000
0304	SPV.0090	Special 04. HES Concrete Curb & Gutter 31-Inch Special	LF	72.000	72.000
0306	SPV.0090	Special 05. HES Concrete Curb and Gutter 24-Inch	LF	6.000	6.000
0308	SPV.0105	Special 11. Maintenance of Lighting Systems	LS	1.000	1.000
0310	SPV.0105	Special 30. Trnspt & Inst State Furn Traffic Signal Cabinet STH 794 & S Pennsylvania Ave	LS	1.000	1.000
0312	SPV.0105	Special 31. Trnspt & Install State Furn Traffic Signal Cabinet STH 794 & Ellen St	LS	1.000	1.000
0314	SPV.0105	Special 32. Trnspt & Install State Furn Radar Detect Sys STH 794 & Ellen St	LS	1.000	1.000
0316	SPV.0105	Special 33. Trnspt Traffic Signal & Inter Lighting Materials STH 794 & Ellen St	LS	1.000	1.000
0318	SPV.0105	Special 34. Trnspt & Install State Furn FO Cable Pigtail 8-Ct CB1 (S40-1231)	LS	1.000	1.000
0320	SPV.0105	Special 35. Trnspt & Install State Furn FO Cable Pigtail 8-Ct CB1 (S40-1216)	LS	1.000	1.000
0322	SPV.0180	Special 01. Removing Asphaltic Surface Milling Special	SY	163,934.000	163,934.000

LOCATION	REMOVING PAVEMENT BUTT JOINT 204.0105 SY	REMOVING ASPHALTIC SURFACE MILLING SPECIAL SPV.0180.01 SY	SAWING ASPHALT 690.0150 LF
NB STH 794			
STA 58+51 TO 65+60	93	2,423	35
STA 68+85 TO 99+50	86	10,866	--
STA 99+50 TO 132+00	--	11,569	--
STA 132+00 TO 161+75	90	10,606	--
STA 164+65 TO 196+00	89	12,281	--
STA 202+17 TO 217+67	204	6,205	--
STA 219+76 TO 228+22	204	3,383	--
STA 229+71 TO 236+58	198	2,750	--
STA 238+02 TO 253+42	266	6,882	--
STA 255+93 TO 260+13	222	1,702	--
SB STH 794			
STA 58+51 TO 66+33	91	3,381	52
STA 69+10 TO 99+50	90	10,814	--
STA 99+50 TO 132+00	--	11,544	--
STA 132+00 TO 162+95	89	10,967	--
STA 164+65 TO 194+25	86	11,130	--
STA 202+42 TO 218+14	245	6,475	--
STA 220+21 TO 228+09	200	3,147	--
STA 229+57 TO 236+56	199	2,778	--
STA 237+95 TO 253+49	260	7,205	--
STA 256+03 TO 260+13	201	1,630	--
LAYTON AVE RAMPS			
NB ON RAMP - STA 491+90 TO 512+31	--	4,204	32
SB OFF RAMP - STA 191+05 TO 212+65	--	5,923	61
HOWARD AVE RAMPS			
NB OFF RAMP - STA 429+03 TO 443+03	--	2,453	24
NB ON RAMP - STA 544+49 TO 556+26	--	2,465	44
SB OFF RAMP - STA 245+07 TO 260+10	--	3,087	38
SB ON RAMP - STA 323+39 TO 343+27	--	2,870	30
ELLEN ST INTERSECTION			
NB	105	2,418	--
SB	166	2,776	--
UNDISTRIBUTED	--	--	16
TOTAL	**3,184**	**163,934**	**332**

LOCATION	TACK COAT 455.0605 GAL	HMA PAVEMENT 3 MT 58-28 S 460.6223 TON	HMA PAVEMENT 4 MT 58-28 S 460.6224 TON
NB STH 794			
STA 58+51 TO 65+60	291	327	254
STA 68+85 TO 99+50	1,304	1,467	1,141
STA 99+50 TO 132+00	1,388	--	2,429
STA 132+00 TO 161+75	1,273	--	2,227
STA 164+65 TO 196+00	1,474	--	2,579
STA 202+17 TO 217+67	745	--	1,303
STA 219+76 TO 228+22	406	--	710
STA 229+71 TO 236+58	330	--	577
STA 238+02 TO 253+42	826	--	1,445
STA 255+93 TO 260+13	204	--	357
SB STH 794			
STA 58+51 TO 66+33	406	456	355
STA 69+10 TO 99+50	1,298	1,460	1,135
STA 99+50 TO 132+00	1,385	--	2,424
STA 132+00 TO 162+95	1,316	--	2,303
STA 164+65 TO 194+25	1,336	--	2,337
STA 202+42 TO 218+14	777	--	1,360
STA 220+21 TO 228+09	378	--	661
STA 229+57 TO 236+56	333	--	583
STA 237+95 TO 253+49	865	--	1,513
STA 256+03 TO 260+13	196	--	342
LAYTON AVE RAMPS			
NB ON RAMP - STA 491+90 TO 512+31	504	--	883
SB OFF RAMP - STA 191+05 TO 212+65	711	--	1,244
HOWARD AVE RAMPS			
NB OFF RAMP - STA 429+03 TO 443+03	294	--	515
NB ON RAMP - STA 544+49 TO 556+26	296	--	518
SB OFF RAMP - STA 245+07 TO 260+10	370	--	648
SB ON RAMP - STA 323+39 TO 343+27	344	--	603
ELLEN ST INTERSECTION			
NB	290	--	508
SB	333	--	583
UNDISTRIBUTED	984	--	--
TOTAL	**20,657**	**3,710**	**31,537**

LOCATION	REMVOING CURB & GUTTER 204.0150 LF	REMVOING CONRETE SIDEWALK 204.0155 SY	REMOVING PAVEMENT 204.0100 SY	SAWING CONCRETE 690.0250** LF
STH 794				
STA 108+50, 16' RT	7	--	--	13
STA 160+47, 15' LT	3	--	--	9
STA 188+20, 2' LT	--	--	--	8
STA 190+20, 2' LT	--	--	--	8
STA 191+44, 5' RT	9	3.0	--	23
STA 191+57, 5' LT	3	--	--	9
STA 199+22, 18' RT	6	--	--	12
STA 200+55, 18' RT	8	--	--	14
STA 201+89, 18' RT	3	--	--	9
STA 216+54, 5' RT	3	--	--	9
STA 218+40, 4' LT	8	2.0	--	22
STA 219+56, 4' LT	7	2.0	--	21
STA 225+78, 6' LT	3	--	--	9
STA 230+74, 5' LT	5	--	--	11
STA 236+00, CENTER	--	--	--	8
STA 236+80, CETNER	--	--	--	8
STA 237+67, 5' LT	4	1.0	--	15
STA 237+86, 5' LT	3	--	--	9
HOWARD SB OFF RAMP				
STA 248+60, 1' LT	6	--	0.4	20
UNDISTRIBUTED	--	--	--	12
SUBTOTAL	**78**	**8.0**	**0.4**	**249**

** ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLAN

LOCATION	CONCRETE PAVEMENT 7-INCH 415.0070 SY	CONCRETE SIDEWALK 5-INCH 602.0410 SF	DRILLED TIE BARS 416.0610** EACH	HES CONCRETE CURB & GUTTER 31-INCH SPECIAL SPV.0090.04 LF	HES CONCRETE CURB & GUTTER 24-INCH SPV.0090.05 LF
STH 794					
STA 108+50, 16' RT	--	--	2	7	--
STA 160+47, 15' LT	--	--	1	3	--
STA 188+20, 2' LT	--	50	--	--	--
STA 190+20, 2' LT	--	50	--	--	--
STA 191+44, 5' RT	--	90	3	9	--
STA 191+57, 5' LT	--	--	1	3	--
STA 199+22, 18' RT	--	--	2	6	--
STA 200+55, 18' RT	--	--	2	8	--
STA 201+89, 18' RT	--	--	1	3	--
STA 216+54, 5' RT	--	--	1	3	--
STA 218+40, 4' LT	--	25	2	8	--
STA 219+56, 4' LT	--	50	2	7	--
STA 225+78, 6' LT	--	--	1	3	--
STA 230+74, 5' LT	--	--	1	5	--
STA 236+00, CENTER	--	25	--	--	--
STA 236+80, CETNER	--	50	--	--	--
STA 237+67, 5' LT	--	70	1	4	--
STA 237+86, 5' LT	--	--	1	3	--
HOWARD SB OFF RAMP					
STA 248+60, 1' LT	0.4	--	--	--	6
UNDISTRIBUTED	--	--	--	--	--
TOTAL	**0.4**	**410**	**21**	**72**	**6**

** ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLAN

3

LOCATION	BASE PATCHING CONCRETE SHES 390.0403* SY	DRILLED TIE BARS 416.0610** EACH	DRILLED DOWEL BARS 416.0620 EACH	CONCRETE PAVEMENT REPLACEMENT SHES 416.1725 SY	SAWING CONCRETE 690.0250** LF
NB STH 794					
STA 58+51 TO 132+00	2,325	654	5,231	--	6,974
STA 132+00 TO 196+00	2,224	1,356	5,005	1500	6,673
STA 1960+00 TO 253+42	1,731	519	4,673	--	6,231
STA 255+93 TO 260+13	136	41	368	--	490
SB STH 794					
STA 58+51 TO 132+00	2,533	712	5,699	--	7,598
STA 132+00 TO 194+25	2,244	561	5,049	--	6,733
STA 194+25 TO 253+49	1,790	448	4,028	--	5,371
STA 256+03 TO 260+13	130	33	293	--	391
UNDISTRIBUTED	656	216	1,517	--	2,023
TOTAL	**13,769**	**4,540**	**31,863**	**1,500**	**42,484**

** ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLAN
* ENGINEER TO DETERMINE EXACT LOCATION IN THE FIELD

LOCATION	INLET COVERS TYPE R 611.0648 EACH
STH 794	
STA 108+50, 16' RT	1
STA 191+44, 5' RT	1
	2

3

LOCATION	MONOLITHIC SHIM CONCRETE SHES SPV.0035.01 CY	ADJUSTING MANHOLE COVERS 611.8110 EACH	ADJUSTING INLET COVERS 611.8115 EACH	COVER PLATES TEMPORARY 611.8120.S EACH	INLET PROTECTION TYPE C 628.7015* EACH	SAWING CONCRETE 690.0250** LF
NB STH 794						
STA 58+51 TO 99+50	--	--	--	--	23	--
STA 99+50 TO 155+00	16.5	--	--	11	28	220
STA 155+00 TO 177+25	16.5	--	--	11	15	220
STA 177+25 TO 223+00	3.0	--	--	2	33	40
STA 223+00 TO 260+13	6.0	1	--	4	27	80
SB STH 794						
STA 58+51 TO 99+50	--	--	--	--	27	--
STA 99+50 TO 155+00	10.5	--	1	7	22	140
STA 155+00 TO 177+25	13.5	--	--	9	14	180
STA 177+25 TO 223+00	13.5	--	1	9	34	180
STA 223+00 TO 260+13	7.5	--	--	5	27	100
LAYTON AVE						
NB ON RAMP	3.0	--	--	2	9	40
SB OFF RAMP	4.5	--	--	3	12	60
HOWARD AVE						
NB ON RAMP	--	--	--	--	5	--
NB OFF RAMP	--	--	--	--	5	--
SB ON RAMP	4.5	--	--	3	10	60
SB OFF RAMP	--	--	--	--	--	--
TOTAL	**99.0**	**1**	**2**	**66**	**291**	**1,320**

* ENGINEER TO DETERMINE EXACT LOCATION IN THE FIELD
** ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLAN

LOCATION	CONSTRUCTION STAKING RESURFACING REFERENCE 650.8000 LF	ELECTRICAL INSTALLATIONS (PROJECT) 650.8500 LS	SUPPLEMENTAL CONTROL (PROJECT) 650.9910 LS
STH 794			
STA 58+51 TO 260+13	20,162	1	1
LAYTON RAMPS			
NB ON-RAMP	2,967	--	--
SB OFF-RAMP	2,282	--	--
HOWARD RAMPS			
NB ON-RAMP	584	--	--
NB OFF-RAMP	827	--	--
SB ON-RAMP	831	--	--
SB OFF-RAMP	996	--	--
UNDISTRIBUTED	--	--	--
TOTAL	**28,649**	**1**	**1**

LOCATION	TOPSOIL 625.0100* SY	MOBILIZATIONS EROSION CONTROL 628.1905 EACH	MOBILIZATIONS EMERGENCY EROSION CONTROL 628.1910 EACH	EROSION MAT URBAN CLASS 1 TYPE B 628.2008* SY	FERTILIZER TYPE B 629.0210* CWT	SEEDING MIXTURE NO. 40 630.0140* LB
STH 794 INTERSECTION						
S. PENNSYLVANIA AVE	6	--	--	6	0.35	0.10
ELLEN ST	19	--	--	19	1.19	0.34
UNDISTRIBUTED	1	1	1	1	0.08	0.02
TOTALS	**26**	**1**	**1**	**26**	**1.62**	**0.46**

* ENGINEER TO DETERMINE EXACT LOCATION IN THE FIELD

LOCATION	TRAFFIC CHANNELIZING CURB SYSTEM SPV.0090.02 LF	SAWING CONCRETE CURB HEAD SPV.0090.03 LF
STH 794		
STA 63+76, 51' RT	--	25
LAYTON NB ON RAMP		
STA 495+84, 5' RT	--	25
LAYTON SB OFF RAMP		
STA 200+20, 23' RT	35	--
HOWARD NB OFF RAMP		
STA 436+48, 20' LT	35	--
HOWARD NB ON RAMP		
STA 552+03, 4' RT	--	25
HOWARD SB OFF RAMP		
STA 255+02, 20' RT	35	--
UNDISTRIBUTED	--	--
SUBTOTAL	**105**	**75**

MARKING

LOCATION	LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE) 646.1040 LF	LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW) 646.1040 LF	LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH 12.5' LINE, 37.5' SPACE (WHITE) 646.1555 LF	LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH 3' LINE, 9' SPACE (WHITE) 646.1555 LF	LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) 646.3555 LF	LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH 3' LINE, 9' GAP (WHITE) 646.3555 LF	LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH 2' LINE, 6' GAP (WHITE) 646.3555 LF	ARROWS EPOXY TYPE 2 646.5020 EACH	ARROWS EPOXY TYPE 5 646.5020 EACH	ARROWS EPOXY TYPE 7 646.5020 EACH	ARROWS EPOXY TYPE 4 646.5020 EACH	ARROWS EPOXY TYPE 3 646.5020 EACH	WORD EPOXY 646.5120 EACH	STOP LINE EPOXY 18-INCH (WHITE) 646.6120 LF	DIAGONAL EPOXY 12-INCH (WHITE) 646.7120 LF	DIAGONAL EPOXY 12-INCH (YELLOW) 646.7120 LF	CHEVRON EPOXY 24-INCH (WHITE) 646.7220 LF	ISLAND NOSE EPOXY 646.8220 EACH
STH 794 NB																			
STA 57+87 TO 99+19	4,015	4,050	1,038	--	--	--	--	--	--	--	--	--	--	--	440	--	--	--
STA 99+19 TO 112+25	--	1,310	325	--	1,100	--	--	--	--	--	--	--	--	--	--	--	--	--
STA 112+25 TO 127+41	1,515	1,515	375	--	--	--	--	--	--	--	--	--	--	--	233	--	--	--
STA 127+41 TO 136+96	--	955	238	78	650	--	--	--	--	--	--	--	--	--	22	--	365	--
STA 136+96 TO 149+97	1,450	1,450	363	--	--	--	--	--	--	--	--	--	--	--	180	--	--	--
STA 149+97 TO 154+98	--	500	125	--	1,025	--	--	--	--	--	--	--	--	--	--	--	--	--
STA 154+98 TO 194+94	4,000	4,000	1,000	--	--	--	--	--	--	--	--	--	--	--	555	--	--	--
STA 194+94 TO 206+49	1,190	1,230	308	--	1,025	55	--	4	2	--	--	--	3	60	75	--	--	2
STA 206+49 TO 245+33	3,885	3,885	975	--	--	--	--	--	--	--	--	--	--	--	675	--	--	--
STA 245+33 TO 248+05	--	272	75	68	--	--	--	--	--	--	--	--	--	--	15	--	--	--
STA 248+05 TO 254+28	625	625	150	--	605	--	--	--	--	--	--	--	--	--	--	--	--	--
STA 254+28 TO 261+92	765	765	188	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
STH 794 SB							--											
STA 57+58 TO 63+19	760	540	--	--	850	131	--	6	--	--	--	1	4	55	110	--	--	1
STA 63+19 TO 99+66	3,650	3,650	913	--	--	--	--	--	--	--	--	--	--	--	380	--	--	--
STA 99+66 TO 109+21	--	955	238	--	950	--	--	--	--	--	--	--	--	--	--	--	710	--
STA 109+21 TO 111+44	--	223	50	56	--	--	--	--	--	--	--	--	--	--	--	--	--	--
STA 111+44 TO 127+21	1,580	1,580	400	--	--	--	--	--	--	--	--	--	--	--	135	--	--	--
STA 127+21 TO 135+42	--	825	200	--	825	--	--	--	--	--	--	--	--	--	--	--	--	--
STA 135+42 TO 154+46	1,905	1,905	475	--	--	--	--	--	--	--	--	--	--	--	285	--	--	--
STA 154+46 TO 160+96	--	650	163	42	480	--	--	--	--	--	--	--	--	--	--	--	235	--
STA 160+96 TO 194+86	3,390	3,390	850	--	36	--	--	--	--	--	--	--	--	--	245	215	--	--
STA 194+86 TO 205+19	1,035	970	256	82	1,350	60	24	4	2	--	--	--	3	--	250	--	--	--
STA 205+19 TO 250+18	4,500	4,500	1,125	--	--	--	--	--	--	--	--	--	--	--	700	80	--	--
STA 250+18 TO 256+48	--	630	150	--	645	--	--	--	--	--	--	--	--	--	--	--	--	--
STA 256+48 TO 261+92	545	545	138	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RAMPS																		
LAYTON NB ON-RAMP	2,035	725	--	--	1,270	--	--	--	--	--	--	--	--	--	--	--	--	--
LAYTON SB OFF-RAMP	2,040	865	--	--	950	126	--	6	--	1	1	--	6	37	--	--	--	--
HOWARD NB ON-RAMP	1,600	650	--	--	825	--	--	2	--	--	1	2	2	--	--	--	--	--
HOWARD NB OFF-RAMP	1,040	535	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HOWARD SB ON-RAMP	1,620	985	--	--	880	--	--	4	--	--	1	2	2	--	--	--	--	--
HOWRD SB OFF-RAMP	1,600	775	--	--	820	--	--	--	--	--	--	--	--	--	--	--	--	--
CARFERRY NB OFF-RAMP	1,380	825	--	--	600	--	--	--	--	--	--	--	--	--	--	--	--	--
CARFERRY SB ON-RAMP	1,085	460	--	--	645	--	--	--	--	--	--	--	--	--	--	--	--	--
UNDISTRIBUTED	2,361	2,337	506	16	777	19	1	--	--	--	--	--	--	8	215	15	66	--
SUBTOTAL	49,571	49,077	10,624	342	16,308	391	25	26	4	1	3	5			4,515	310		
TOTAL	**98,648**		**10,966**		**16,724**			**39**					**20**	**160**	**4,825**		**1,376**	**3**

PROJECT	MIX TYPE	460.0105.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP VOLUMETRICS EACH	460.0110.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP DENSITY EACH
1300-03-72			
	4 MT 58-28 S (LOWER LAYER)	1	1
	4 MT 58-28 S (UPPER LAYER)	--	1
TOTAL		1	2

3

							Quality Management Program to be used for:	
Location	**Station**	**Mixture Use:**	**Underlying Surface**	**Bid Item**	**Tons**	**Thickness**	**Mixture Acceptance**	**Density Acceptance**
DRIVING LANES - 1 & 2 NB	STA 58+51 TO 99+50	LOWER LAYER	EXISTING CONCRETE BASE	3MT58-28S	1347	2 1/4"	MIXTURE ACCEPTANCE PER SPCIFICATION 460	DRIVING LANES -QMP NUCLEAR DENSITY HMA PAVEMENT 460.2000
DRIVING LANES - 1 & 2 SB	STA 58+51 TO 99+50	LOWER LAYER	EXISTING CONCRETE BASE	3MT58-28S	1388	2 1/4"	MIXTURE ACCEPTANCE PER SPCIFICATION 460	DRIVING LANES -QMP NUCLEAR DENSITY HMA PAVEMENT 460.2000
OUTSIDE SHOULDER - NB	STA 58+51 TO 99+50	LOWER LAYER	EXISTING CONCRETE BASE	3MT58-28S	447	2 1/4"	MIXTURE ACCEPTANCE PER SPCIFICATION 460	DRIVING LANES -QMP NUCLEAR DENSITY HMA PAVEMENT 460.2000
OUTSIDE SHOULDER / RT TURN LANE - SB	STA 58+51 TO 99+50	LOWER LAYER	EXISTING CONCRETE BASE	3MT58-28S	506	2 1/4"	MIXTURE ACCEPTANCE PER SPCIFICATION 460	DRIVING LANES -QMP NUCLEAR DENSITY HMA PAVEMENT 460.2000
LT TURN LANE - SB	STA 58+51 TO 99+50	LOWER LAYER	EXISTING CONCRETE BASE	3MT58-28S	22	2 1/4"	MIXTURE ACCEPTANCE PER SPCIFICATION 460	DRIVING LANES -QMP NUCLEAR DENSITY HMA PAVEMENT 460.2000
DRIVING LANES - 1 & 2 NB	STA 58+51 TO 99+50	UPPER LAYER	3MT58-28S	4MT58-28S	1048	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
DRIVING LANES - 1 & 2 SB	STA 58+51 TO 99+50	UPPER LAYER	3MT58-28S	4MT58-28S	1079	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
OUTSIDE SHOULDER - NB	STA 58+51 TO 99+50	UPPER LAYER	3MT58-28S	4MT58-28S	347	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DECENTIVE
OUTSIDE SHOULDER / RT TURN LANE - SB	STA 58+51 TO 99+50	UPPER LAYER	3MT58-28S	4MT58-28S	393	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DECENTIVE
LT TURN LANE - SB	STA 58+51 TO 99+50	UPPER LAYER	3MT58-28S	4MT58-28S	17	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DECENTIVE

							Quality Management Program to be used for:	
Location	Station	Mixture Use:	Underlying Surface	Bid Item	Tons	Thickness	Mixture Acceptance	Density Acceptance
DRIVING LANES - 1 & 2 NB	STA 99+50 TO 260+13	LOWER LAYER	EXISTING CONCRETE BASE	4MT58-28S	4149	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
DRIVING LANES - 1 & 2 SB	STA 99+50 TO 260+13	LOWER LAYER	EXISTING CONCRETE BASE	4MT58-28S	4148	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
OUTSIDE SHOULDER - NB	STA 99+50 TO 260+13	LOWER LAYER	EXISTING CONCRETE BASE	4MT58-28S	1676	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DECENTIVE
OUTSIDE SHOULDER - SB	STA 99+50 TO 260+13	LOWER LAYER	EXISTING CONCRETE BASE	4MT58-28S	1448	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DECENTIVE
LAYTON AVE NB ON RAMP	--	LOWER LAYER	EXISTING CONCRETE BASE	4MT58-28S	441	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
LAYTON AVE SB OFF RAMP	--	LOWER LAYER	EXISTING CONCRETE BASE	4MT58-28S	622	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
HOWARD AVE NB OFF RAMP	--	LOWER LAYER	EXISTING CONCRETE BASE	4MT58-28S	257	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
HOWARD AVE NB ON RAMP	--	LOWER LAYER	EXISTING CONCRETE BASE	4MT58-28S	259	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
HOWARD AVE SB OFF RAMP	--	LOWER LAYER	EXISTING CONCRETE BASE	4MT58-28S	324	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
HOWARD AVE SB ON RAMP	--	LOWER LAYER	EXISTING CONCRETE BASE	4MT58-28S	302	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
ELLEN ST - NB RT TURN LANE & ACCELERATION LANE	STA 193+40 TO 210+96	LOWER LAYER	EXISTING CONCRETE BASE	4MT58-28S	244	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DECENTIVE
ELLEN ST - SB DUAL LT TURN LANE & ACCELERATION LANE / INSIDE SHOULDER	STA 178+00 TO 212+21	LOWER LAYER	EXISTING CONCRETE BASE	4MT58-28S	457	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DECENTIVE

							Quality Management Program to be used for:	
Location	**Station**	**Mixture Use:**	**Underlying Surface**	**Bid Item**	**Tons**	**Thickness**	**Mixture Acceptance**	**Density Acceptance**
DRIVING LANES - 1 & 2 NB	STA 99+50 TO 260+13	UPPER LAYER	4MT58-28S	4MT58-28S	4149	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
DRIVING LANES - 1 & 2 SB	STA 99+50 TO 260+13	UPPER LAYER	4MT58-28S	4MT58-28S	4148	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
OUTSIDE SHOULDER - NB	STA 99+50 TO 260+13	UPPER LAYER	4MT58-28S	4MT58-28S	1676	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DECENTIVE
OUTSIDE SHOULDER - SB	STA 99+50 TO 260+13	UPPER LAYER	4MT58-28S	4MT58-28S	1448	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DECENTIVE
LAYTON AVE NB ON RAMP	--	UPPER LAYER	4MT58-28S	4MT58-28S	440	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
LAYTON AVE SB OFF RAMP	--	UPPER LAYER	4MT58-28S	4MT58-28S	622	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
HOWARD AVE NB OFF RAMP	--	UPPER LAYER	4MT58-28S	4MT58-28S	258	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
HOWARD AVE NB ON RAMP	--	UPPER LAYER	4MT58-28S	4MT58-28S	259	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
HOWARD AVE SB OFF RAMP	--	UPPER LAYER	4MT58-28S	4MT58-28S	324	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
HOWARD AVE SB ON RAMP	--	UPPER LAYER	4MT58-28S	4MT58-28S	301	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DRIVING LANES - INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
ELLEN ST - NB RT TURN LANE & ACCELERATION LANE	STA 193+40 TO 210+96	UPPER LAYER	4MT58-28S	4MT58-28S	244	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DECENTIVE
ELLEN ST - SB DUAL LT TURN LANE & ACCELERATION LANE / INSIDE SHOULDER	STA 178+00 TO 212+21	UPPER LAYER	4MT58-28S	4MT58-28S	457	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE OR DECENTIVE

		TRAFFIC CONTROL																	
				BARRICADES		WARNING LIGHTS		WARNING LIGHTS		ARROW				COVERING SIGNS	FOR INFORMATION ONLY		SIGNS		
	STAGE DURATION	DRUMS 643.0300		TYPE III 643.0420		TYPE A 643.0705		TYPE C 643.0715		BOARD 643.0800		SIGNS 643.0900		TYPE II 643.0920*	NUMBER OF	NUMBER OF	PCMS 643.1050		
LOCATION	DAYS	EACH**	DAY	EACH**	DAY	EACH**	DAY	EACH**	DAY	EACH**	DAY	EACH**	DAY	EACH	CYCLES	SIGNS	EACH**	DAY	COMMENTS
STAGE 1 - NIGHTTIME CLOSURES																			
STH 794																			
HOWARD AVE TO CARFERRY																			
NORTHBOUND NIGHTTIME CLOSURE																			
PENNSYLVANIA AVE	45	61	2,745	16	720	32	1,440	0	0	0	0	33	1,485	0	0	0	3	249	
LAYTON AVE	45	56	2,520	11	495	22	990	7	315	1	45	49	2,205	0	0	0	2	166	
HOWARD AVE	45	29	1,305	8	360	16	720	0	0	0	0	31	1,395	0	0	0	2	166	
ELLEN ST	83	64	5,312	18	1,494	36	2,988	8	664	1	83	23	1,909	15	1	15	2	166	FULL CLOSURE THROUGH STAGE 1
SOUTHBOUND NIGHTTIME CLOSURE																			
CARFERRY DR	45	0	0	2	90	4	180	0	0	0	0	14	630	0	0	0	2	166	
STH 794	45	139	6,255	8	360	16	720	47	2,115	4	180	24	1,080	360	45	8	4	332	PCMS QTY BASED ON 83 CALENDAR DAYS
STAGE 1 - DAYTIME CLOSURE																			
STH 794																			
HOWARD AVE TO CARFERRY																			
NORTHBOUND DAYTIME CLOSURE																			
STH 794	45	405	18,225	14	630	26	1,170	20	900	2	90	22	990	0	0	0	0	0	
SOUTHBOUND DAYTIME CLOSURE																			
STH 794	45	405	18,225	15	675	30	1,350	16	720	2	90	25	1,125	360	45	8	0	0	
	SUBTOTAL		54,587		4,824		9,558		4,714		488		10,819	735				1,245	
STAGE 2 - NIGHTTIME CLOSURES																			
STH 794																			
PENNSYLVANIA AVE TO HOWARD AVE																			
NORTHBOUND NIGHTTIME CLOSURE																			
PENNSYLVANIA AVE	40	59	2,360	16	640	32	1,280	0	0	0	0	34	1,360	0	0	0	3	216	
LAYTON AVE	40	55	2,200	11	440	22	880	7	280	1	40	44	1,760	0	0	0	2	144	
ELLEN ST	40	49	1,960	21	840	42	1,680	8	320	1	40	23	920	0	0	0	2	144	NIGHTTIME FULL CLOSURE THROUGH STAGE 2
SOUTHBOUND NIGHTTIME CLOSURE																			
HOWARD AVE	40	18	720	5	200	10	400	0	0	0	0	23	920	0	0	0	2	144	
CARFERRY DR	40	0	0	2	80	4	160	0	0	0	0	10	400	400	40	10	2	144	
STH 794	40	138	5,520	7	280	14	560	48	1,920	4	160	17	680	320	40	8	4	288	PCMS QTY BASED ON 72 CALENDAR DAYS
STAGE 2 - DAYTIME CLOSURE																			
STH 794																			
PENNSYLVANIA AVE TO HOWARD AVE																			
NORTHBOUND DAYTIME CLOSURE																			
STH 794	40	183	7,320	9	360	18	720	0	0	0	0	6	240	0	0	0	0	0	
SOUTHBOUND DAYTIME CLOSURE																			
STH 794	40	260	10,400	10	400	20	800	14	560	2	80	28	1,120	0	0	0	5	200	
DETOUR												303	46,965	1,190	85	14			
	SUBTOTAL		30,480		3,240		6,480		3,080		320		54,365	1,910				1,280	
UNDISTRIBUTED			8,533		836		1,662		806		92		6,551	334				275	
TOTALS	**TOTAL**		**93,600**		**8,900**		**17,700**		**8,600**		**900**		**118,700**	**2,979**				**2,800**	

3

CATEGORY 0010

TEMPORARY PAVEMENT MARKING

	STA	TO	STA	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH YELLOW LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH WHITE LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH WHITE 12.5 FT LINE 37.5 FT SKIP LF	649.0205 TEMPORARY MARKING LINE PAINT 8-INCH WHITE LF	649.0505 TEMPORARY MARKING ARROW PAINT EACH	649.0605 TEMPORARY MARKING WORD PAINT EACH	649.0805 TEMPORARY MARKING STOP LINE PAINT 18-INCH LF	646.9010 MARKING REMOVAL LINE WATER BLASTING 4-INCH LF	646.9110 MARKING REMOVAL LINE WATER BLASTING 8-INCH LF	646.9310 MARKING REMOVAL SPECIAL MARKING WATER BLASTING EACH
STAGE 1 NORTHBOUND	132+00		260+13										
STH 794				25,626	25,626	6,407	2,200	0	0	0	2,563	220	0
HOWARD NB ON-RAMP				1,300	1,600		1,650	0	0	0	160	165	0
CARFERRY NB OFF-RAMP				825	2,760		1,200	0	0	0	276	120	0
ELLEN ST							690	4	4	80	690	69	4
STAGE 1 SOUTHBOUND													
STH 794				25,626	25,626	6,407	5,250	0	0	0	2,563	525	0
HOWARD SB OFF-RAMP				1,550	3,200		1,640	8	4	80	320	164	6
CARFERRY SB ON-RAMP				920	2,170		1,290	0	0	0	217	129	0
ELLEN ST							830	0	0	60	0	83	0
			SUBTOTAL	55,847	60,982	12,813	14,750	12	8	220	6,788	1,475	10
STAGE 1 NORTHBOUND	58+50		132+00										
STH 794				14,700	14,700	3,675	3,500	0	0	0	1,470	350	0
LAYTON NB ON-RAMP				1,450	4,070		2,200	0	0	0	407	220	0
HOWARD NB OFF-RAMP				1,070	2,080		1,600	0	0	0	208	160	0
STAGE 1 SOUTHBOUND													
STH 794				14,700	14,700	3,675	5,050	2	8	0	1,470	505	20
HOWARD SB ON-RAMP				1,970	3,240		1,760	0	0	0	324	176	0
LAYTON SB OFF-RAMP				1,730	4,080		1,900	6	6	40	408	190	12
			SUBTOTAL	35,620	42,870	7,350	16,010	8	14	40	4,287	1,601	32
UNDISTRIBUTED					21,548		3,076	2	2	26	1,108	308	4
			TOTALS		237,030		33,836	22	24	286	12,183	3,384	46

LOCATION	TRAFFIC CONTROL 643.5000 EACH
STH 794	
PROJECT	1
	1

CATEGORY 0010

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET:	**E**

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

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	638.2601 REMOVING SIGNS TYPE I [EA]	635.0300 SIGN SUPPORTS REPLACING BASE CONNECTION BOLTS [EA]	REMARKS / NEW SIGN LOCATION
1	D16-1R	SOUTH STH 794 ONLY [RA]	3.5 x 6	21.00	1	--	SHEET 1 OF 37 INSTALL ON S-40-709 I-BEAMS INCIDENTAL
2	D16-1R	SOUTH STH 794 ONLY [RA]	3.5 x 6	21.00	1	--	SHEET 1 OF 37 INSTALL ON S-40-709 I-BEAMS INCIDENTAL
3	E3-1	PENNSYLVANIA AVE JCT 1/2 MILE	18 x 5	90.00	1	2	SHEET 5 OF 37 REUSE STEEL POSTS
4	E3-1	LAYTON AVE [TA]	12 x 3	36.00	1	2	SHEET 10 OF 37 REUSE STEEL POSTS
5	E9-1	LAYTON AVE NEXT RIGHT	10 x 4	40.00	1	--	SHEET 11 OF 37 INSTALL ON S-40-266 I-BEAMS INCIDENTAL
6	E3-1	HOWARD AVE EXIT 1/4 MILE	12 x 5	60.00	1	2	SHEET 12 OF 37 REUSE STEEL POSTS
7	E3-1	HOWARD AVE [TA]	15 x 3.5	52.50	1	2	SHEET 13 OF 27 REUSE STEEL POSTS
8	D16-1L	SOUTH STH 794 ONLY [LA]	3.5 x 6	21.00	1	--	SHEET 16 OF 37 INSTALL ON S-40-269 I-BEAMS INCIDENTAL
9	E3-1	HOWARD AVE [TA]	12 x 3	36.00	1	--	SHEET 18 OF 37 INSTALL ON S-40-325 I-BEAMS INCIDENTAL
10	E3-1	OKLAHOMA AVE JCT 1/4 MILE	12 x 4	48.00	1	--	SHEET 23 OF 37 INSTALL ON S-40-265 I-BEAMS INCIDENTAL
11	E3-1	HOWARD AVE EXIT 1/2 MILE	12 x 5	60.00	1	2	SHEET 24 OF 37 REUSE STEEL POSTS
12	E3-1	OKLAHOMA AVE [RA]	18 x 3.5	63.00	1	2	SHEET 25 OF 37 REUSE STEEL POSTS

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE I SIGN SIZE W [FT.] x H [FT.]	**637.1220** SIGNS TYPE I REFLC SH [SF]	**638.2601** REMOVING SIGNS TYPE I [EA]	**635.0300** SIGN SUPPORTS REPLACING BASE CONNECTION BOLTS [EA]	REMARKS / NEW SIGN LOCATION
13	--	OKLAHOMA AVE EAST [DA]	12 x 6	72.00	1	--	SHEET 25 OF 37 INSTALL ON S-40-300 I-BEAMS INCIDENTAL
14	--	OKLAHOMA AVE WEST [DA]	12 x 6	72.00	1	--	SHEET 25 OF 37 INSTALL ON S-40-300 I-BEAMS INCIDENTAL
15	E3-1	PORT OF MILWAUKEE EXIT 3/4 MILE	12 x 7	84.00	1	2	SHEET 27 OF 37 REUSE STEEL POSTS
16	--	OKLHOMA AVE JCT LEFT 3/4 MILE	13 x 4	52.00	1	--	SHEET 32 OF 37 INSTALL ON S-40-301 I-BEAMS INCIDENTAL
17	E6-51	STH 794 TO IH 794 DOWNTOWN [DA] [DA]	16 x 7	112.00	1	--	SHEET 33 OF 37 INSTALL ON S-40-14 I-BEAMS INCIDENTAL
18	E3-1	PORT OF MILWAUKEE [TA]	11 x 4	44.00	1	--	SHEET 33 OF 37 INSTALL ON S-40-14 I-BEAMS INCIDENTAL
TOTALS				984.500	18	14	

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
20	M1-94	S WHITNALL AVE	108 x 21	15.750	--	--	--	2	--	--	--	SHEET 7 OF 37
21	M1-94	S WHITNALL AVE	108 x 21	15.750	--	--	--	2	--	--	--	SHEET 8 OF 37
22	M1-94	E BOLIVAR AVE	102 x 21	14.875	--	--	--	2	--	--	--	SHEET 11 OF 37
23	M1-94	E BOLIVAR AVE	102 x 21	14.875	--	--	--	2	--	--	--	SHEET 11 OF 37
24	M1-94	E ST FRANCIS AVE	120 x 21	17.500	--	--	--	2	--	--	--	SHEET 19 OF 37
25	M1-94	E ST FRANCIS AVE	120 x 21	17.500	--	--	--	2	--	--	--	SHEET 19 OF 37
26	R5-1(3)	--	36 x 36	9.000	--	--	1	1	--	--	--	SHEET 25 OF 37
27	R5-1A(2S)	--	36 x 24	6.000	--	--	--	--	--	--	#26	--
28	R6-2L(2M)	--	30 x 36	7.500	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
29	R4-9(2M)	--	24 x 30	5.000	--	--	1	--	--	--	--	MOUNT ON SIGNAL POLE
30	R1-1F	--	-- x --	--	--	--	1	--	--	--	--	REMOVE FROM SIGNAL POLE
31	R1-1F(3)	--	36 x 36	--	--	7.460	1	--	--	--	--	MOUNT ON SIGNAL POLE
32	R1-1F(3)	--	36 x 36	--	--	7.460	1	--	--	--	--	MOUNT ON SIGNAL POLE
33	J3-1(2S)	--	24 x 57	9.500	--	--	1	1	--	--	--	--
	M3-1	NORTH	24 x 12									
	M1-6	STH 794	24 x 24									
	M6-1		21 x 21									
34	--	RIGHT TURN NO STOP	-- x --	--	--	--	--	--	--	1	#33	--
35	R4-9(2M)	--	24 x 30	5.000	--	--	1	--	--	--	--	MOUNT ON SIGNAL POLE
36	--	RIGHT TURN NO STOP	-- x --	--	--	--	--	--	--	1	--	MOUNT ON SIGNAL POLE
37	R1-1F(3)	--	36 x 36	--	--	7.460	1	--	--	--	--	MOUNT ON SIGNAL POLE
38	R1-1F(3)	--	36 x 36	--	--	7.460	1	--	--	--	--	MOUNT ON SIGNAL POLE
39	R4-7(3)	--	36 x 48	12.000	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
40	R4-7(3)	--	36 x 48	12.000	--	--	--	1	--	--	--	--
41	R4-7(2S)	--	24 x 30	5.000	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
42	R1-1F(3)	--	36 x 36	--	--	7.460	--	--	--	--	--	MOUNT ON SIGNAL POLE
43	R1-1F(3)	--	36 x 36	--	--	7.460	--	--	--	--	--	MOUNT ON SIGNAL POLE
44	R5-1(3)	--	36 x 36	9.000	--	--	--	1	--	--	--	--
45	R5-1A(3)	--	42 x 30	8.750	--	--	--	--	--	--	--	MOUNT ON STEEL POST
46	R6-3(2M)	--	30 x 24	5.000	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
47	W1-6(3)	--	48 x 24	--	8.000	--	--	1	--	--	--	SHEET 35 OF 37
48	W3-3(3)	--	36 x 36	--	9.000	--	--	--	--	--	--	SHEET 23-MOUNT ON LIGHT POLE
49	W3-4(MOD)	BE PREPARED TO STOP WHEN FLASHING	36 x 36	--	9.000	--	--	--	--	--	--	SHEET 24-MOUNT ON POLE
50	W3-4(MOD)	BE PREPARED TO STOP WHEN FLASHING	36 x 36	--	9.000	--	--	--	--	--	--	SHEET 24-MOUNT ON POLE
UNDISTRIBUTED				--	--	--	--	5	5	5		
TOTALS				190.000	35.000	44.760	9	22	5	7		

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LIGHTING - REMOVALS

204.0195 REMOVING CONCRETE BASES
204.9060.S.11 REMOVING LIGHTING UNITS
204.9060.S.12 REMOVING SIGN LIGHTING
204.9090.S.11 REMOVING ELECTRICAL WIRES FROM CONDUIT

CATEGORY	STAGE	SYSTEM	DESCRIPTION	LOCATION	OFFSET	204.0195 REMOVING CONCRETE BASES	204.9060.S.11 REMOVING LIGHTING UNITS	204.9060.S.12 REMOVING SIGN LIGHTING	204.9090.S.11 REMOVING ELECTRICAL WIRE FROM CONDUIT	COMMENTS
						EACH	EACH	EACH	LF	
0010		HL-40-FE	CFE3/DFE3	196+16	7.8' RT	--	--	--	--	EXISTING LIGHTING UNIT TO REMAIN
			CFE3/DFE3 - LPB401	196+16 - 197+81	--	--	--	--	160	--
			LPB401	197+81	9.5' RT	--	--	--	--	EXISTING LIGHTING PULL BOX TO REMAIN
			DFE4	197+80	46.9' LT	1	1	--	--	--
			CFE5	199+14	46.7' LT	1	1	--	--	--
			LPB401 - LPB406	197+73 - 197+81	--	--	--	--	60	--
			CFE4	197+73	74.2' RT	1	1	--	--	--
			LPB406	197+81	73.8' RT	--	--	--	--	EXISTING LIGHTING PULL BOX TO REMAIN
			LPB406	197+81 - 199+29	--	--	--	--	150	--
			LPB407	199+29, 87.6' RT	--	--	--	--	--	EXISTING LIGHTING PULL BOX TO REMAIN
			DFE5	199+33	87.6' RT	1	1	--	--	--
			LPB407 - LPB405	199+29 - 199+24	--	--	--	--	60	--
			LPB405	199+24	23.2' RT	--	--	--	--	EXISTING LIGHTING PULL BOX TO REMAIN
			CFE6/DFE6	199+15	22.0' RT	1	1	--	--	--
			LPB405 - LPB402	199+24 - 200+56	--	--	--	--	140	--
			LPB402	200+56	22.8' RT	--	--	--	--	EXISTING LIGHTING PULL BOX TO REMAIN
			LPB402 - DFE7	200+42 - 200+56	--	--	--	--	45	--
			DFE7	200+42	67.7' RT	--	--	--	--	EXISTING LIGHTING UNIT TO REMAIN
			LPB402 - CFE7	200+56 - 200+80	--	--	--	--	70	--
			CFE7	200+80	44.3' LT	--	--	--	--	EXISTING LIGHTING UNIT TO REMAIN
			LPB402 - LPB403	200+56 - 201+90	--	--	--	--	40	--
			LPB403	--	--	--	--	--	--	EXISTING LIGHTING PULL BOX TO REMAIN
			LPB403 - CFE9/DFE9	201+90 - 202+13	--	--	--	--	30	--
			CFE9/DFE9	201+90	22.0' RT	--	--	--	--	EXISTING LIGHTING UNIT TO REMAIN
			LPB403 - CFE8	201+90 - 202+00	--	--	--	--	50	--
			CFE8	202+00	67.0' RT					EXISTING LIGHTING UNIT TO REMAIN
			LPB403 - DFE8	201+202+30	--	--	--	--	70	--
			DFE8	202+30	45.0' LT	--	--	--	--	EXISTING LIGHTING UNIT TO REMAIN
			DFE14	198+40	141.9' RT	1	1	--	--	--
			CFE14	199+28	166.9' RT	1	1	--	--	--
			2 MV-CD/FE (D51/D52)	200+20	22.0' RT	--	--	2	--	SIGN BRIDGE (S-40-300)
0010		HL-40-FE			TOTALS	7	7	2	875	

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET:	E

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LIGHTING - CONDUIT AND WIRE

655.0620 ELECTRICAL WIRE LIGHTING 8 AWG
655.0630 ELECTRICAL WIRE LIGHTING 4 AWG

CATEGORY	STAGE	SYSTEM	CIRCUIT	FROM	TO	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG	COMMENTS
						LF	LF	
0010		HL-40-FE	C/N/D/G	CFE3/DFE3	LPB401	160	480	EXISTING LIGHTING UNIT, CONDUIT AND PULL BOX
				LPB401	LPB406	60	60	EXISTING CONDUIT AND PULL BOXES
				LPB406	LPB407	150	450	"
				LPB407	LPB405	60	180	"
				LPB405	LPB402	130	390	EXISTING CONDUIT AND PULL BOXES
				LPB402	LPB403	140	420	EXISTING CONDUIT AND PULL BOXES
				LPB403	CFE9/DFE9	30	90	EXISTING CONDUIT, PULL BOX AND LIGHTING UNIT
			C/N/G	CFE9/DFE9	CFE8	240	–	"
			D/N/G	CFE9/DFE9	DFE8	300	–	"
			C/N/G	CFE8	CFE7	780	–	EXISTING CONDUIT, PULL BOX AND LIGHTING UNIT
			D/N/G	DFE8	DFE7	765	–	EXISTING CONDUIT, PULL BOX AND LIGHTING UNIT
0010				TOTALS		2,815	2,070	

LIGHTING - CONTROL, SERVICES AND SYSTEMS
240/480 VAC 3-WIRE (GROUNDED NEUTRAL)

655.0640 ELECTRICAL WIRE LIGHTING 1 AWG
SPV.0105.11 MAINTENANCE OF LIGHTING SYSTEMS

CATEGORY	STAGE	DESCRIPTION	SYSTEM	LOCATION	655.0640 ELECTRICAL WIRE LIGHTING 1 AWG	SPV.0105.11 MAINTENANCE OF LIGHTING SYSTEMS	COMMENTS
					LF	LS	
0010		PROJECT (1300-03-72)	HL-40-FE	STH 794 - SE OF OKLAHOMA AVE.	18	1	EXISTING CABINET TO REMAIN
0010				TOTALS	18	1	

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET:	E

STH 794 & S PENNSYLVANIA AVE
MILWAUKEE COUNTY
CATEGORY 0020
S40-1231

3

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE
1	TRAFFIC SIGNAL CABINET
1	ETHERNET SWITCH

REMOVING LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	204.9105.S.31 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE L.S.
STH 794 & S PENNSYLVANIA AVE	1
TOTAL	1

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.
EXT1	PB5	92
	TOTAL	92 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

INSTALL CONDUIT INTO EXISTING ITEM

STRUCTURE NO.	652.0700.S INSTALL CONDUIT INTO EXISTING ITEM EACH
PB8	1
TOTAL	1 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
15	PB5	59+98.2, 41.0'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	346	216
41	PB8	59+84.4, 21.2'LT	6'x6'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	48	269	192
					TOTAL	120 *	615 *	408 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

3

3

PULL BOXES

PULL BOX NO.	LOCATION^	653.0135 PULL BOXES STEEL 24x36-INCH EACH
PB5	59+98.2, 61.0'LT	1
	TOTAL	1 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

REMOVING PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB5	1
TOTAL	1 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRANSPORT AND INSTALL
STATE FURNISHED TRAFFIC SIGNAL CABINET

LOCATION	SPV.0105.30 TRNSPT AND INSTALL STATE FURN TRAFFIC SIGNAL CABINET L.S.
STH 794 & S PENNSYLVANIA AVE	1
TOTAL	1

3

3

REMOVING LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION		204.9105.S.32 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE L.S.
STH 794 & LAYTON AVE		1
	TOTAL	1

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
31	JB13	191+35.6, 6.7'LT	6'x20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	112	312	448
32	JBXX	191+05.3, 15.2'LT	6'x25'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	142	288	568
41	JB14	192+64.3, 5.4'RT	6'x30'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	82	486	328
42	JB13	191+35.5, 5.3'RT	6'x20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	312	352
43	JB11	191+07.4, 5.0'RT	6'x20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	288	360
44	JB13	191+36.7, 17.1'RT	6'x20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	66	312	264
45	JB11	191+08.8, 16.5'RT	6'x20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	288	272
					TOTAL	648 *	2286 *	2592 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

STH 794 & ELLEN ST
MILWAUKEE COUNTY
CATEGORY 0020
S40-1216

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE
1	TRAFFIC SIGNAL CABINET
1	ETHERNET SWITCH
1	POLES TYPE 12
1	POLES TYPE 13
1	MONOTUBE ARMS 50-FT
1	MONOTUBE ARMS 55-FT
1	LUMINAIRE ARMS 15-FT
1	LUMINAIRE ARMS 15-FT CLAMP-ON
1	RADAR DETECTOR

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.	POLES TYPE 12 EACH	POLES TYPE 13 EACH	MONOTUBE ARMS 50-FT EACH	MONOTUBE ARMS 55-FT EACH	LUMINAIRE ARMS STEEL 15-FT EACH	LUMINAIRE ARMS STEEL 15-FT CLAMP-ON EACH	RADAR DETECTOR EACH
SB4	1	--	1	--	--	--	--
SB7	--	1	--	1	1	1	1
TOTAL	1	1	1	1	1	1	1

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
CB1	1
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB9	1
SB10	1
SB11	1
TOTAL	10

REMOVING TRAFFIC SIGNALS

LOCATION	204.9105.S.30 REMOVING TRAFFIC SIGNALS L.S.
STH 794 & ELLEN ST	1
TOTAL	1

REMOVING LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	204.9105.S.33 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE L.S.
STH 794 & ELLEN ST	1
TOTAL	1

FILE NAME : N:\PDS\C3D\CAD\13000302\SIG\S40-1216\S40-1216_mq.pptx PLOT DATE : 10/12/2020 PLOT BY : DOTCMV PLOT NAME : S40-1216_mq.pdf PLOT SCALE : 1:1

3

3

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
CB1	PB1	--	30	--
PB1	PB2	--	--	118
PB2	SB1	17	--	--
PB2	PB3	--	26	--
PB3	PB4	--	--	54
PB4	SB2	4	--	--
PB4	SB3	10	--	--
PB2	PB15	235	--	--
PB15	PB16	174	--	--
PB16	PB17	--	--	48
PB17	PB18	306	--	--
PB18	SB13	4	--	--
PB18	PB19	--	--	47
PB19	SB14	4	--	--
PB2	PB5	--	--	140
PB5	SB4	--	12	--
PB5	SB5	71	--	--
PB5	PB6	--	250	--
PB6	PB7	--	--	146
PB7	SB6	22	--	--
PB7	LPB401C	13	--	--
PB7	PB8	--	--	132
PB8	SB7	--	8	--
PB8	PB9	--	46	--
PB9	PB10	--	--	44
PB10	SB8	5	--	--
PB9	PB14	79	--	--
PB14	SB11	11	--	--
PB9	PB11	--	--	88
PB11	SB9	29	--	--
PB11	PB12	--	--	124
PB12	PB13	--	--	37
PB13	SB10	3	--	--
PB12	SB12	61	--	--
PB12	CB1	--	33	--
	TOTAL	1048 *	405	978

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

INSTALL CONDUIT INTO EXISTING ITEM

STRUCTURE NO.	652.0700.S INSTALL CONDUIT INTO EXISTING ITEM EACH
LPB401C	1
LPB402	1
TOTAL	2

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

STH 794 & ELLEN ST
MILWAUKEE COUNTY
CATEGORY 0020
S40-1216

3

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
51	LPB402	200+49.1, 6.4'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	64	366	192
52	PB7	199+38.1, 0.8'RT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	220	270
53	PB7	199+10.1, 0.8'RT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	220	282
54	PB7	199+38.1, 11.8'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	220	204
55	PB7	199+10.1, 11.8'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	220	222
61	PB16	193+95.7, 23.7'RT	6'x20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	492	272
62	PB15	195+70.4, 36.6'RT	6'x6'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	60	318	300
63	PB15	195+70.9, 24.9'RT	6'x6'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	42	318	210
81	PB14	12+25.2, 12.8'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	210	210
82	PB11	10+96.9, 11.5'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	87	222
83	PB11	10+68.9, 11.5'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	86	87	258
					TOTAL	790 *	2758 *	2642 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

PULL BOXES

PULL BOX NO.	LOCATION^	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	198+01.4, 77.8'RT	--	1
PB2	198+06.5, 19.3'RT	--	1
PB3	198+32.3, 13.5'RT	--	1
PB4	198+81.9, 8.1'LT	--	1
PB5	198+12.7, 50.6'LT	--	1
PB6	199+37.8, 49.7'LT	--	1
PB7	199+37.0, 23.1'RT	--	1
PB8	199+36.3, 89.0'RT	--	1
PB9	11+09.0, 43.5'LT	--	1
PB10	10+68.7, 25.2'LT	--	1
PB11	11+04.0, 0.0'RT	--	1
PB12	198+11.4, 87.5'RT	--	1
PB13	198+33.9, 58.4'RT	--	1
PB14	12+25.1, 32.0'LT	1	--
PB15	195+71.5, 13.1'RT	1	--
PB16	193+98.1, 5.9'RT	--	1
PB17	193+96.0, 54.0'RT	--	1
PB18	190+89.6, 46.7'RT	--	1
PB19	190+89.7, 0.0'RT	--	1
	TOTAL	2 *	17

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD
* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

REMOVING PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB9	1
PB10	1
PB11	1
PB12	1
PB29	1
TOTAL	12 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

STH 794 & ELLEN ST
MILWAUKEE COUNTY
CATEGORY 0020
S40-1216

CONCRETE BASES

SIGNAL BASE NO.	LOCATION^	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0113 CONCRETE BASES TYPE 13 EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	198+00.5, 87.8'RT	--	--	--	--	1
SB1	198+22.0, 11.9'RT	--	1	--	--	--
SB2	198+86.3, 8.5'LT	1	--	--	--	--
SB3	198+71.5, 9.1'LT	1	--	--	--	--
SB4	198+24.5, 47.3'LT	--	--	--	1	--
SB5	198+83.7, 46.6'LT	--	1	--	--	--
SB6	199+15.1, 23.2'RT	1	--	--	--	--
SB7	199+44.0, 86.8'RT	--	--	--	1	--
SB8	10+72.6, 22.1'LT	1	--	--	--	--
SB9	10+74.7, 0.0'RT	1	--	--	--	--
SB10	198+37.3, 58.6'RT	1	--	--	--	--
SB11	12+10.0, 36.9'LT	--	--	1	--	--
SB12	11+44.1, 40.4'RT	--	--	1	--	--
SB13	190+86.0, 46.8'RT	1	--	--	--	--
SB14	190+86.0, 0.0'RT	1	--	--	--	--
	TOTAL	8	2	2	2	1

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.
CB1	SB1	--	129	--
CB1	SB2	228	--	--
CB1	SB3	234	--	--
CB1	SB4	--	210	--
CB1	SB5	269	--	--
CB1	SB6	319	--	--
CB1	SB7	223	--	--
CB1	SB8	241	--	--
CB1	SB9	145	--	--
CB1	SB10	--	94	--
CB1	SB13	943	--	--
CB1	SB14	1006	--	--
		--	--	--
CB1	SB1	--	--	129
SB1	SB5	--	--	198
		--	--	--
CB1	SB12	--	--	99
SB12	SB7	--	--	270
SB7	SB11	--	--	177
	TOTAL	3608	433	873

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	129
SB1	SB13	872
SB13	SB14	95
SB14	SB2	1034
SB2	SB3	38
SB3	SB4	244
SB4	SB5	107
SB5	SB6	347
SB6	SB7	136
SB7	SB8	136
SB8	SB9	178
SB9	SB10	187
SB10	CB1	94
PB1	CB1	33
PB2	SB1	37
PB3	SB1	79
PB4	SB2	24
PB5	SB4	32
PB6	SB4	173
PB7	SB6	42
PB8	SB7	28
PB9	SB7	67
PB10	SB8	25
PB11	SB9	49
PB12	CB1	34
PB13	CB1	87
PB15	SB1	288
PB16	SB13	410
PB17	SB13	346
PB18	SB13	24
PB19	SB14	24
	TOTAL	5399

3

STH 794 & ELLEN ST
MILWAUKEE COUNTY
CATEGORY 0020
S40-1216

3

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.
SB1	HEAD 2	19
SB1	HEAD 9	19
SB2	HEAD 14	19
SB3	HEAD 13	19
SB4	HEAD 5	73
SB4	HEAD 6	73
SB4	HEAD 10	75
SB5	HEAD 15	19
SB6	HEAD 7	19
SB7	HEAD 3	80
SB7	HEAD 4	80
SB8	HEAD 11	19
SB9	HEAD 12	19
SB10	HEAD 1	19
SB10	HEAD 8	19
SB13	HEAD 16	19
SB13	HEAD 17	19
SB14	HEAD 18	19
SB14	HEAD 19	19
	TOTAL	647

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB1	LUMIN. (2)	234
SB5	LUMIN.	117
SB7	LUMIN. (2)	288
SB11	LUMIN.	144
SB12	LUMIN.	144
	TOTAL	927

ELECTRICAL SERVICE METER BREAKER PEDESTAL

LOCATION*	656.0200.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.
STH 794 & ELLEN ST.	1
TOTAL	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

3

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0310 POLES TYPE 3 EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	657.0715 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	--	1	1	--	--	2	--	2
SB2	1	--	--	--	1	--	--	--
SB3	1	--	--	--	1	--	--	--
SB5	--	1	1	--	--	1	--	1
SB6	1	--	--	--	1	--	--	--
SB8	1	--	--	--	1	--	--	--
SB9	1	--	--	--	1	--	--	--
SB10	1	--	--	--	1	--	--	--
SB11	--	1	--	1	--	--	1	1
SB12	--	1	--	1	--	--	1	1
SB13	1	--	--	--	1	--	--	--
SB14	1	--	--	--	1	--	--	--
TOTAL	8	4	2	2	8	3	2	5 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

POLES (STATE SUPPLIED)

SIGNAL BASE NO.	SPV.0060.30 INSTALL POLES TYPE 12 EACH	SPV.0060.31 INSTALL POLES TYPE 13 EACH	SPV.0060.32 INSTALL MONOTUBE ARMS 50-FT EACH	SPV.0060.33 INSTALL MONOTUBE ARMS 55-FT EACH	SPV.0060.34 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	SPV.0060.35 INSTALL LUMINAIRE ARMS STEEL 15-FT CLAMP-ON EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB4	1	--	1	--	--	--	--
SB7	--	1	--	1	1	1	2
TOTAL	1	1	1	1	1	1	2 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

3

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0171 TRAFFIC SIGNAL FACE 1S 12-INCH EACH	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH
1	SB10	--	1
2	SB1	--	1
3	SB7	--	1
4	SB7	--	1
5	SB4	1	--
6	SB4	1	--
7	SB6	--	1
8	SB10	--	1
9	SB1	--	1
10	SB4	--	1
11	SB8	--	1
12	SB9	--	1
13	SB3	--	1
14	SB2	--	1
15	SB5	--	1
16	SB13	1	--
17	SB13	1	--
18	SB14	1	--
19	SB14	1	--
	TOTAL	6	13

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.01 SIGNAL MOUNTING HARDWARE L.S.
STH 794 & ELLEN ST	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED RADAR DETECTION SYSTEM

LOCATION	SPV.0105.32 TRNSPT & INSTALL STATE FURN RADAR DETECT SYS L.S.
STH 794 & ELLEN ST	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET

LOCATION	SPV.0105.31 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET L.S.
STH 794 & ELLEN ST	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0105.33 TRNSPT TRAFFIC SIGNAL & INTER LIGHTING MATERIALS L.S.
STH 794 & ELLEN ST	1
TOTAL	1

3

3

CONDUIT

FROM	TO		652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0700.S INSTALL CONDUIT INTO EXISTING ITEM EACH	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
			--	--	--
CB1 (S67-1216)	FTMS PB198		17	1	27
			--	--	--
		TOTAL	17 *	1 *	27 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

FIBER OPTIC CABLE

FROM	TO		678.0036 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 36-CT L.F.
FTMS EXCV1	FTMS EXCV2		587
FTMS EXCV2	FTMS EXCV3		565
FTMS EXCV3	FTMS EXCV4		323
FTMS EXCV4	FTMS EXCV4A		156
FTMS EXCV4A	FTMS EXCV5		1113
FTMS EXCV5	FTMS EXCV9106		1205
15% CONTINGENCY			592
		TOTAL	4541

FIBER OPTIC SPLICE

LOCATION		678.0200 FIBER OPTIC SPLICE ENCLOSURE EACH	678.0300 FIBER OPTIC SPLICE EACH
FTMS EXCV1		1	4
FTMS EXCV9106		1	4
FTMS MB198		--	4
	TOTAL	2	12

3

FIBER OPTIC COMMUNICATIONS EQUIPMENT

LOCATION	678.0600 INSTALL ETHERNET SWITCHES EACH	ST-ST SINGLE MODE FIBER JUMPER 2-CT 4-FEET*** EACH	CAT-5E CABLE 5-FEET*** EACH
CB1 (S40-1231)	1	2	3
CB1 (S40-1216)	1	2	3
TOTAL	2	4	6

* PAY ITEM INCLUDES INSTALLATION OF BOTH CONTRACTOR FURNISHED AND STATE FURNISHED MATERIALS

*** FOR INFORMATION ONLY

STATE FURNISHED MATERIALS SUMMARY (FOR INFORMATION ONLY)

FROM	TO	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT EACH	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT L.F.	SFP EACH	SPLICE ENCLOSURE EACH	ETHERNET SWITCH EACH	FIBER OPTIC CABLE OUTDOOR PLANT 36-CT L.F.
FTMS CV1	CB1 (S40-1231)	1	400	2	--	1	--
FTMS MB198	CB1 (S40-1216)	1	100	2	--	1	--
FTMS EXCV1	FTMS EXCV2	--	--	--	1	--	587
FTMS EXCV2	FTMS EXCV3	--	--	--	--	--	565
FTMS EXCV3	FTMS EXCV4	--	--	--	--	--	323
FTMS EXCV4	FTMS EXCV4A	--	--	--	--	--	156
FTMS EXCV4A	FTMS EXCV5	--	--	--	--	--	1113
FTMS EXCV5	FTMS EXCV9106	--	--	--	1	--	1205
15% CONTINGENCY		--	--	--	--	--	592
	TOTAL	2	500	4	2	2	4541

TRANSPORT AND INSTALL STATE FURNISHED FIBER OPTIC COMMUNICATIONS MATERIALS

LOCATION	SPV.0105.34 TRNSPT & INSTALL STATE FURN FO CABLE PIGTAIL 8-CT L.S.	SPV.0105.35 TRNSPT & INSTALL STATE FURN FO CABLE PIGTAIL 8-CT L.S.	(FOR INFORMATION ONLY) PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT STATE FURNISHED L.F.
CB1 (S40-1231)	1	--	400
CB1 (S40-1216)	--	1	100
TOTAL	1	1	500

FILE NAME : N:\PDS\C3D\CAD\13000302\SIG\IC\SigFOIC_mq.pptx PLOT DATE : 10/22/2020 PLOT BY : DOTCMV PLOT NAME : SigFOIC_mq.pdf PLOT SCALE : 1:1

FTMS ITEMS

CATEGORY	ROADWAY	ITEM ID	LINEAR DISTANCE	652.0225 * CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0700.S * INSTALL CONDUIT INTO EXISTING ITEM EACH	655.0515 * ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF	674.0300 REMOVE CABLE LF	678.0006 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 6-CT LF	678.0300 FIBER OPTIC SPLICE EACH	678.0400 FIBER OPTIC TERMINATION EACH
0020	USH 794									
		EXMH01	--	--	1	--	--	100	6	--
		EXMH01 - EXPB02	100	--	--	--	100	--	--	--
		EXPB02 - EXPB03	65	--	--	--	65	--	--	--
		EXPB03 - EXPB04	65	--	--	--	65	--	--	--
		EXPB04 - EXPB05	40	--	--	--	40	--	--	--
		EXPB05 - EXPB06	30	--	--	--	30	--	--	--
		EXPB06 - EXCABOK01	10	--	--	--	10	--	--	--
		EXCABOK01 - EXPB07	10	--	--	--	10	--	--	--
		EXPB07 - EXPB08	30	--	--	--	30	--	--	--
		EXPB08 - EX-CCTV-40-0144	10	--	--	--	10	--	--	--
		EXMH01 - EXMH03	475	--	--	475	--	525	--	--
		EXMH03 - EXMH04	110	--	--	110	--	160	--	--
		EXMH04 - EXMH02	200	--	--	200	--	250	--	--
		EXMH02 - EXPB08	30	60	--	30	--	80	--	--
		EXPB08	--	--	1	--	--	--	--	--
		EXPB08 - EX-CCTV-40-0144	10	--	--	10	--	60	--	--
		EX-CCTV-40-0144	--	--	--	--	--	--	--	10
		TOTALS		60	2	825	360	1,175	6	10

* - ADDITIONAL QUANTITIES FOUND ELSEWHERE

MISCELLANEOUS ITEMS

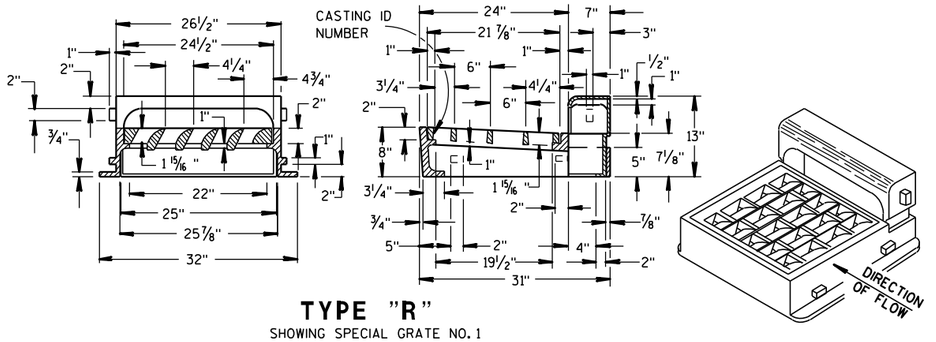
CATEGORY	ROADWAY	670.0100 FIELD SYSTEM INTEGRATOR LS	670.0200 ITS DOCUMENTATION LS	678.0500 COMMUNICATION SYSTEM TESTING LS
0020	USH 794			
	PROJECT	1	1	1
	TOTALS	1	1	1

Standard Detail Drawing List

08D17-06	MANHOLES, MANHOLE & INLET COVERS
08E10-02	INLET PROTECTION TYPE A, B, C AND D
09B02-10	CONDUIT
09B04-11	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C12-09A	CONCRETE BASE TYPE 13
09C12-09B	CONCRETE BASE TYPE 13
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-03	SIGNAL CONTROL CABINET
09E01-15B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E08-09I	TYPE 12 POLE 35'-55' MONOTUBE ARM
09E08-09J	TYPE 13 POLE 35'-55' MONOTUBE ARM
09E08-09K	GENERAL NOTES,HARDWARE DETAILS FOR TYPE 9/10,9/10 SPECIAL,12 & 13 POLES W/MONOTUBE ARMS
09F15-04A	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
10A01-03	ELECTRICAL HANDHOLE WIRING
10A02-03	IDENTIFICATION PLAQUES LIGHT POLES
10A05-03	ELECTRICAL DETAILS GROUND MOUNT LIGHT POLES ISOLATED NEUTRAL SYSTEMS
13C09-15A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-15B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-15C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C14-07A	BASE PATCHING CONCRETE
13C14-07B	BASE PATCHING CONCRETE
13C14-07C	BASE PATCHING CONCRETE
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-08D	ON RAMP LANE CLOSURE
15C02-08E	OFF RAMP LANE CLOSURE
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-04	MEDIAN ISLAND MARKING
15C27-03B	PAVEMENT MARKING (ISLANDS)
15C31-03A	PAVEMENT MARKING (RAMPS AND GORES)
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D04-01	TRAFFIC CONTROL, RAMP CONSTRUCTION STAGING
15D12-08A	TRAFFIC CONTROL, LANE CLOSURE
15D12-08B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D12-09A	TRAFFIC CONTROL, LANE CLOSURE
15D14-04	TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT-TERM (LESS THAN 24 HOURS)
15D15-05B	TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-05D	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D40-01	TRAFFIC CONTROL, LANE SHIFT, MULTILANE DIVIDED OR ONE WAY ROAD
15D47-01B	TRAFFIC CONTROL, INGRESS/EGRESS WITHOUT BARRIER

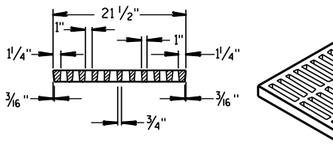
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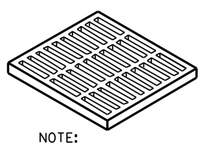
INLET COVERS



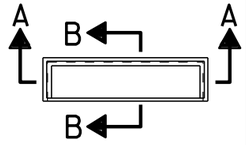
TYPE "R"

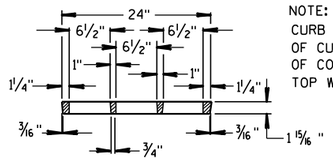
SHOWING SPECIAL GRATE NO. 1
(TO BE NOTED AS R-1 IN DRAINAGE TABLE)



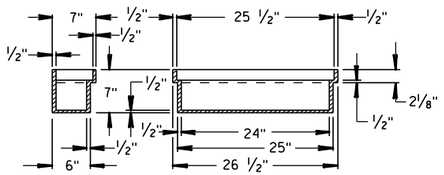


(APPROX. WEIGHT - 510 LBS.)
FRAME..... 245 LBS.
CURB..... 120 LBS.
GRATE..... 145 LBS.





NOTE:
CURB PLUG USED IN PLACE OF CURB BOX IN ABSENCE OF CONC. CURB. FILL TO TOP WITH CONCRETE.



GRATE FOR TYPE "R" INLET COVER

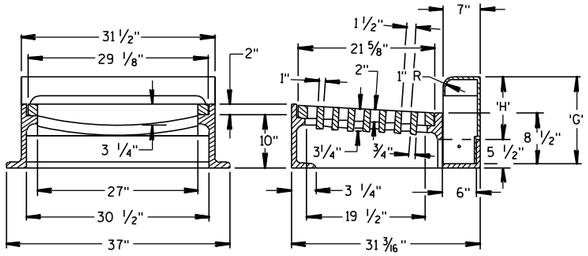
(GRATE..... 150 LBS.)
(TO BE USED UNLESS OTHERWISE NOTED IN DRAINAGE TABLE)

SECTION B-B SECTION A-A

SPECIAL CURB PLUG "P"

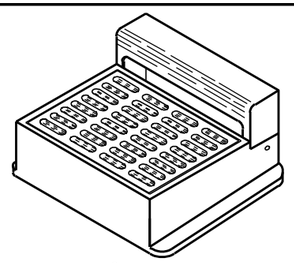
(CURB PLUG..... 85 LBS.)
(TO BE NOTED AS R-P IN DRAINAGE TABLE)

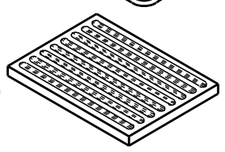
'H' = 9" FOR 6" CURB
'H' = 11" FOR 8" CURB
'G' = 13 3/4" FOR 6" CURB
'G' = 15 3/4" FOR 8" CURB



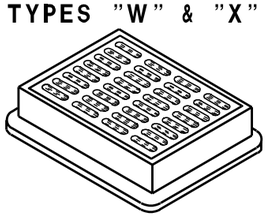
TYPE "W"

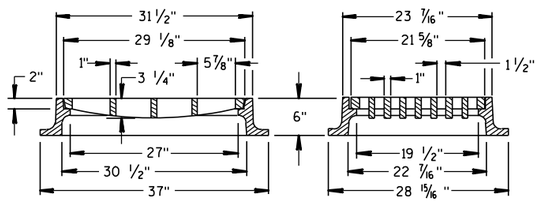
(APPROX. WEIGHT - 670 LBS.)
FRAME..... 350 LBS.
CURB BOX..... 135 LBS.
GRATE..... 185 LBS.





ALTERNATE GRATE
(FOR EXPRESSWAY RAMPS)
TYPES "W" & "X"

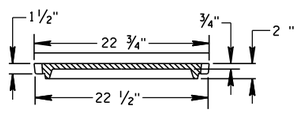




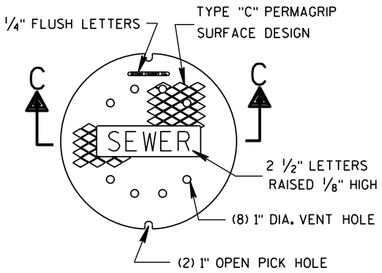
TYPE "X"

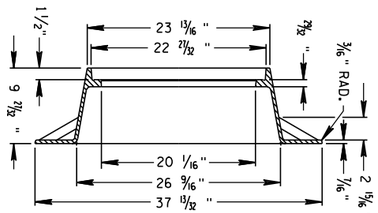
(APPROX. WEIGHT - 470 LBS.)

MANHOLE COVER



SECTION C-C





TYPE "Q"

(APPROX. WEIGHT - 290 LBS.)

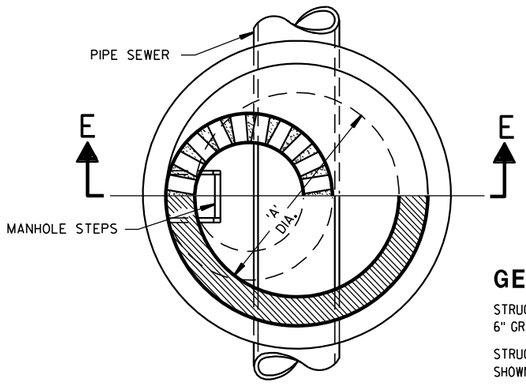
TABLE OF DIMENSIONS

TYPE	'A'	'B'	'C'
11	3'-6"	2'-8"	12" - 36"*
12	4'-0"	3'-8"	12" - 42"**
13	5'-0"	5'-8"	42" - 48"
14	6'-0"	7'-8"	54" - 60"

* 12" - 21" FOR PRECAST MANHOLES
** 12" - 24" FOR PRECAST MANHOLES

THE FIRST STEP SHALL BE PLACED 16" ABOVE THE BENCH.

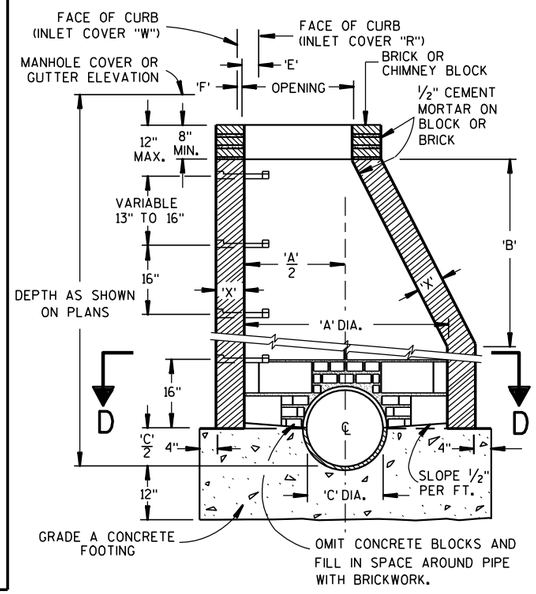
MANHOLE



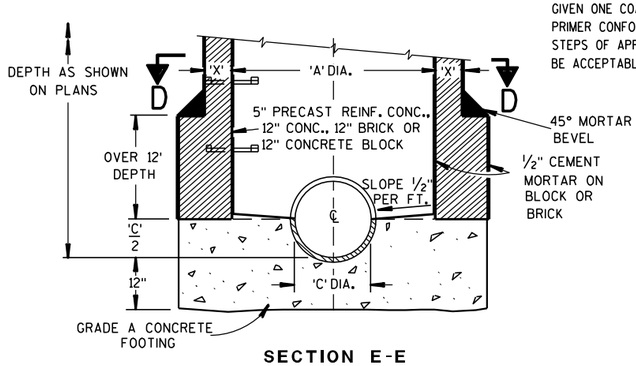
HALF SECTION D-D

TABLE OF OPENING DIMENSIONS

COVER TYPE	COVER DESCRIPTION	OPENING	'E'	'F'
"O"	ROUND	2'-2" DIA.	—	—
"W"	CURB BOX	1'-8" X 2'-6"	—	1"
"X"	INLET	1'-10" X 2'-6"	—	—
"R"	CURB BOX	2'-0" X 2'-1"	4"	—



SECTION E-E



SECTION E-E

TYPES 11, 12, 13 & 14

GENERAL NOTES

STRUCTURE WALL THICKNESS 'X' TO BE 8" BRICK, 6" CONCRETE BLOCK, 6" GRADE A CONCRETE OR 5" PRECAST REINFORCED CONCRETE.

STRUCTURE FOOTINGS ARE TO BE GRADE A CONCRETE OF THE THICKNESS SHOWN IN THE DETAIL OR 5" PRECAST REINFORCED CONCRETE.

REINFORCEMENT FOR 5" PRECAST REINFORCED CONCRETE SHALL BE 6" X 6" W16 X W16 WELDED SREEL WIRE FABRIC AND SHALL BE EMBEDDED 2" CLEAR.

PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

PRECAST CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6" IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR GRANULAR BACK-FILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON THE PLANS.

THE CONTRACTOR MAY FORM AND POUR MONOLITHIC CONCRETE INVERT PROVIDED THE PIPE ENDS ARE EXTENDED INTO THE M.H. AND NOT TERMINATED WITHIN THE M.H. WALLS.

MANHOLE STEPS

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH; 16 INCH C-C MAX. SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM WALL EMBEDMENT OF 3 INCHES IN PRECAST MANHOLE AND 6 INCHES IN 8 INCH BRICK OR 6 INCH BLOCK MANHOLE; TREAD OF STEP SHALL HAVE A NON-SKID SURFACE AND BE FLANKED BY CLEATS, WITH A MINIMUM OF 10 INCHES CLEAR BETWEEN CLEATS, TO PREVENT FOOT SLIPPING OFF THE EDGE CLEATS SHALL BE A MINIMUM OF 3/4 INCH HIGH BY 3/4 INCH WIDE HAVING A MINIMUM THICKNESS OF 3/8 INCH. STEPS SHALL BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 300 LBS. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

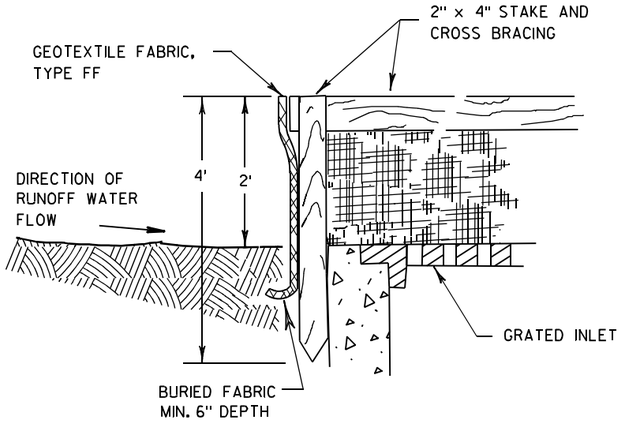
SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT. STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCING BAR WILL BE ACCEPTABLE.

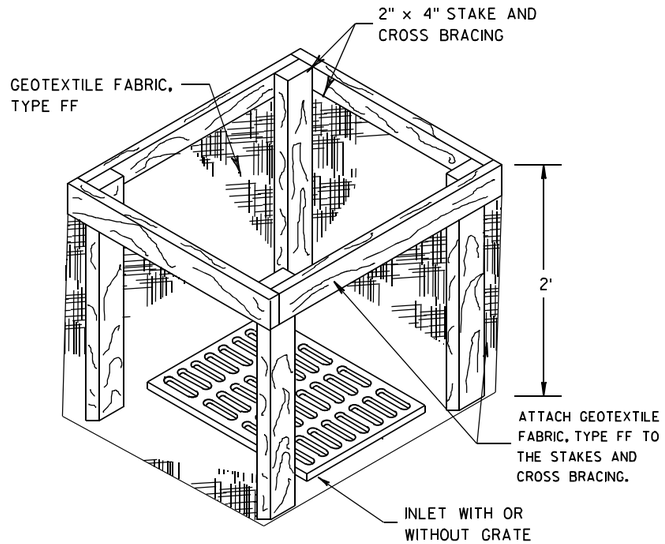
MANHOLES, MANHOLE & INLET COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

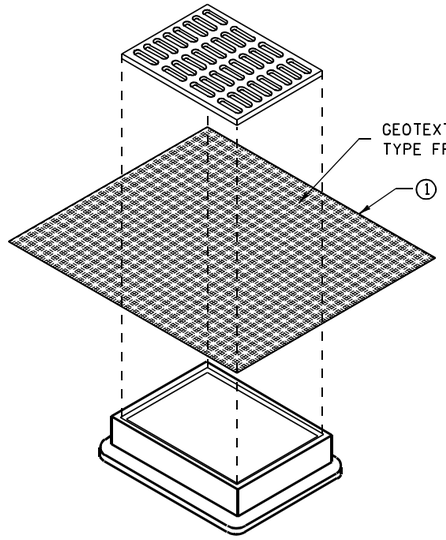
APPROVED
4/12/2011 — DATE
/S/ Jerry H. Zogg — ROADSIDE STANDARDS ENGINEER
FHWA

6
S.D.D. 8 D 17-6



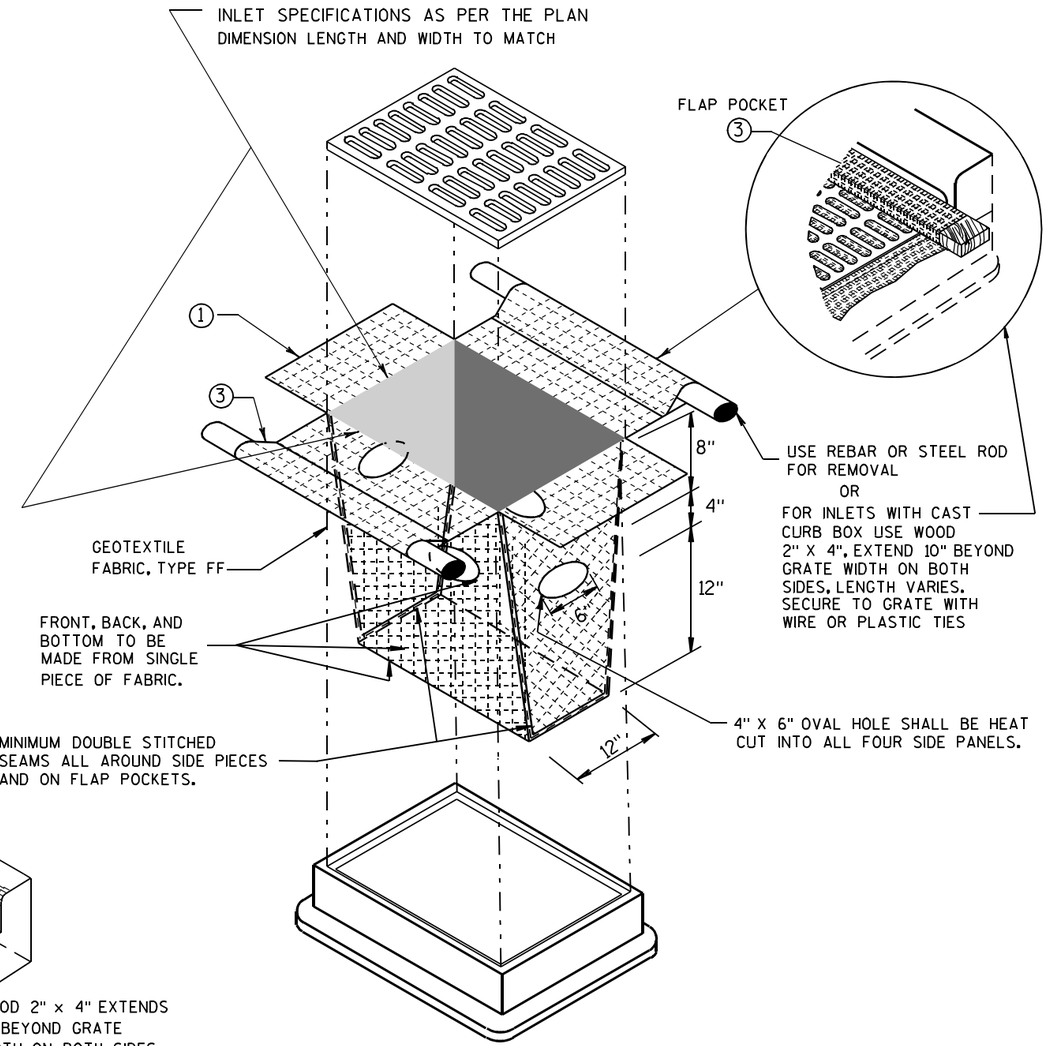


INLET PROTECTION, TYPE A



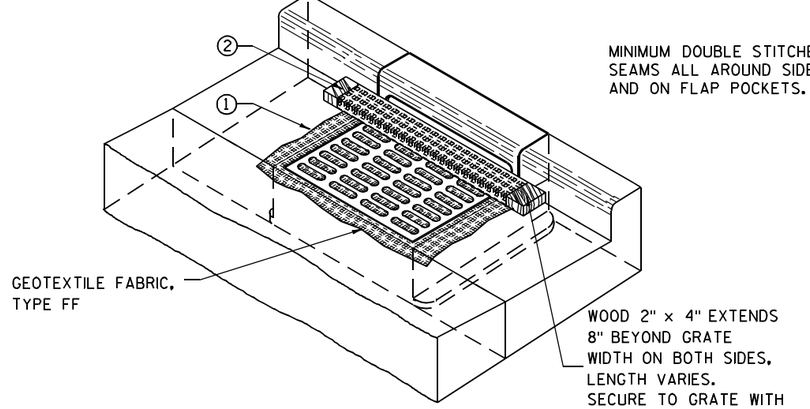
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE D

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



INLET PROTECTION, TYPE C (WITH CURB BOX)

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

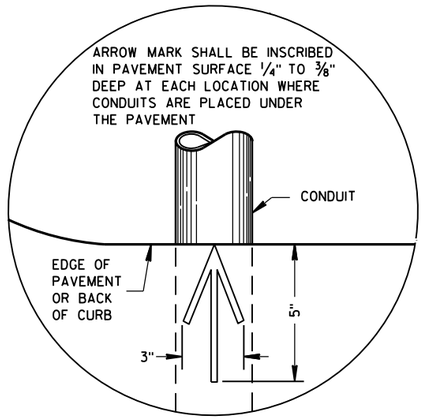
10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

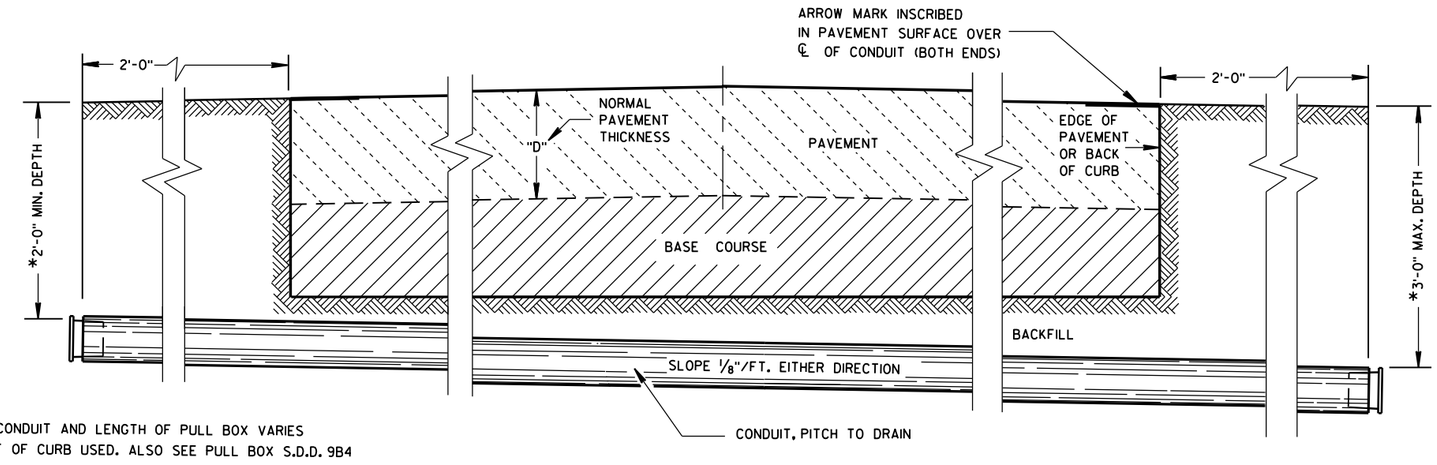
6

S.D.D. 8 E 10-2



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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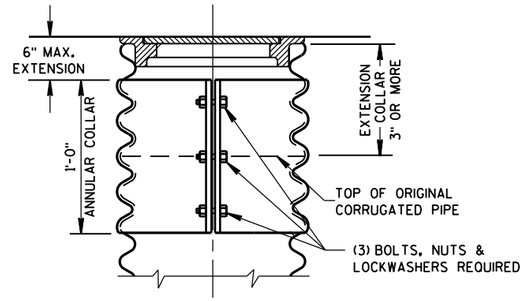
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

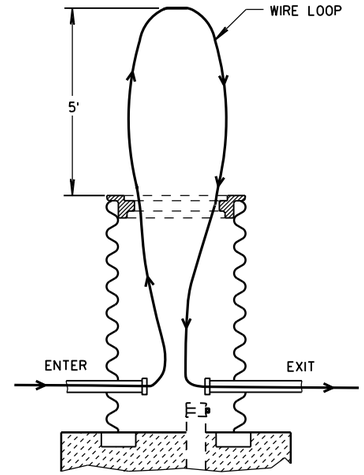
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

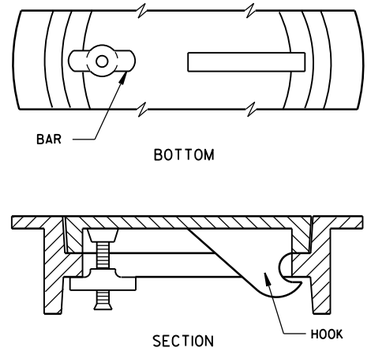
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

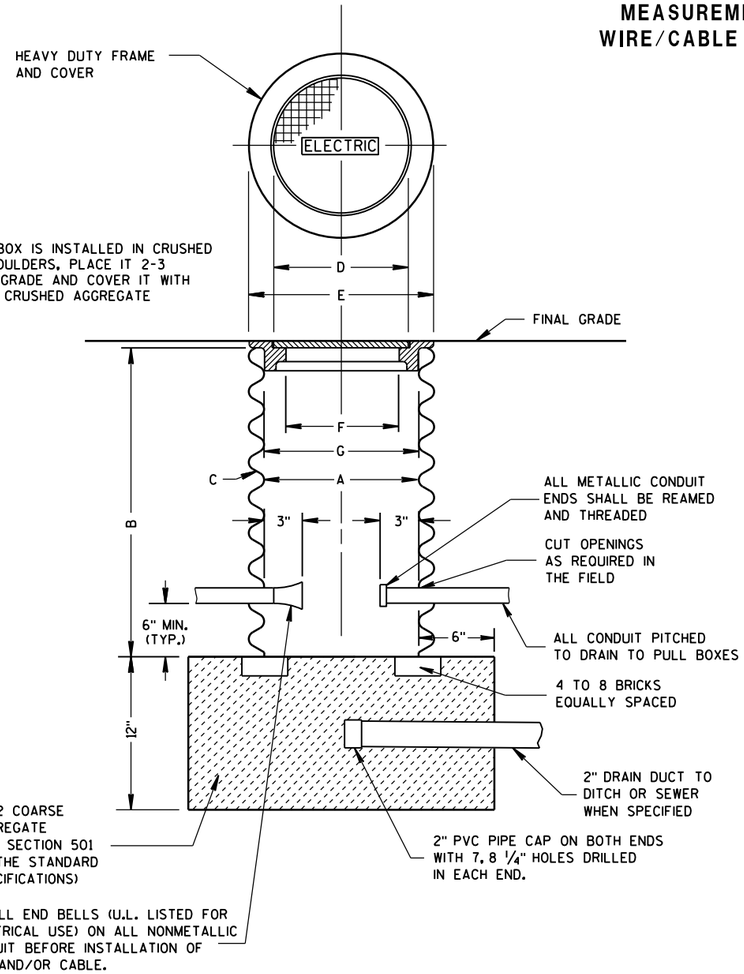


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



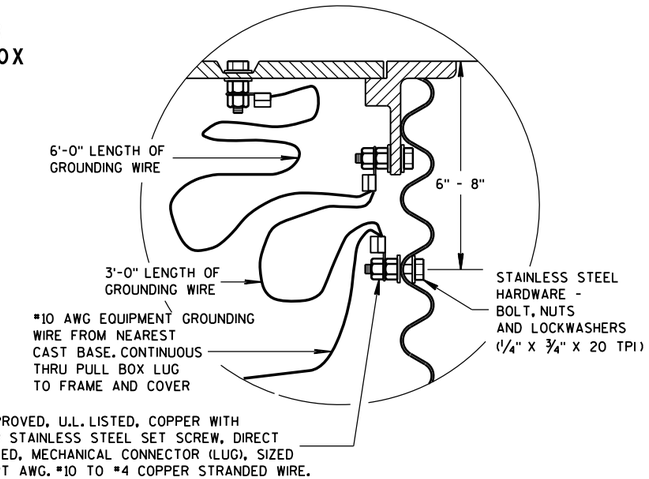
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



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

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

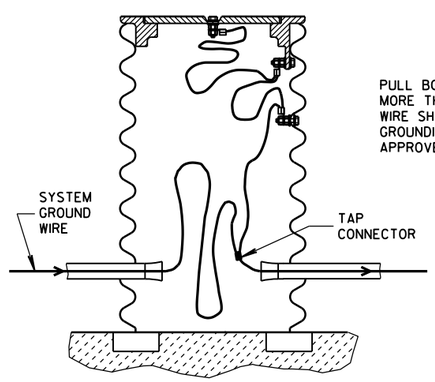
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

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

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

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

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

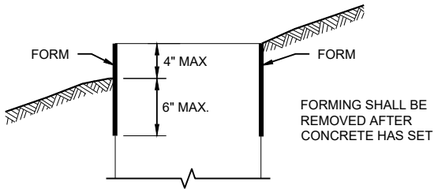
6

S.D.D. 9 B 4-11

6

S.D.D. 9 B 4-11

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.

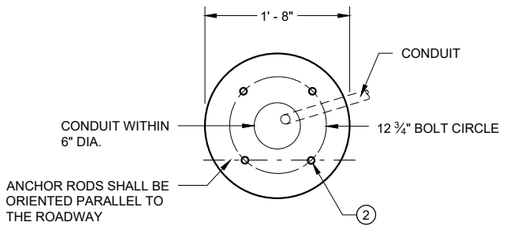
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

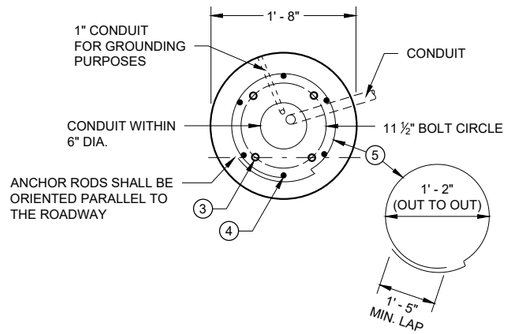
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

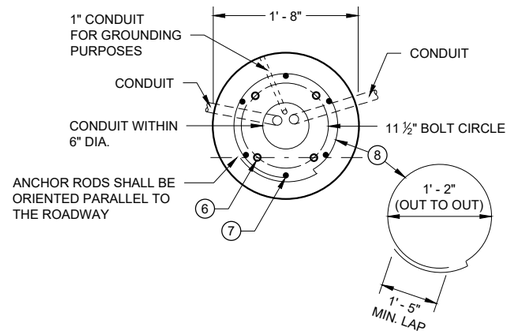
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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.

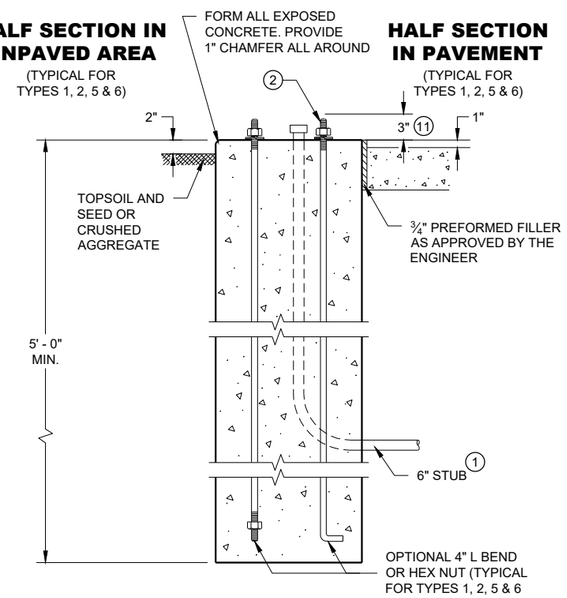
⑫ FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA

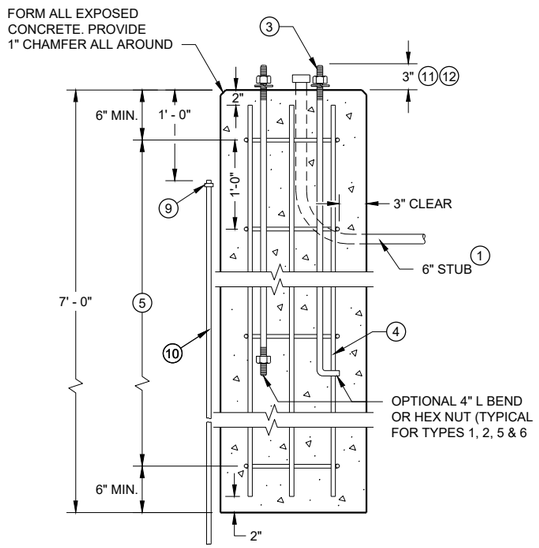
(TYPICAL FOR TYPES 1, 2, 5 & 6)

HALF SECTION IN PAVEMENT

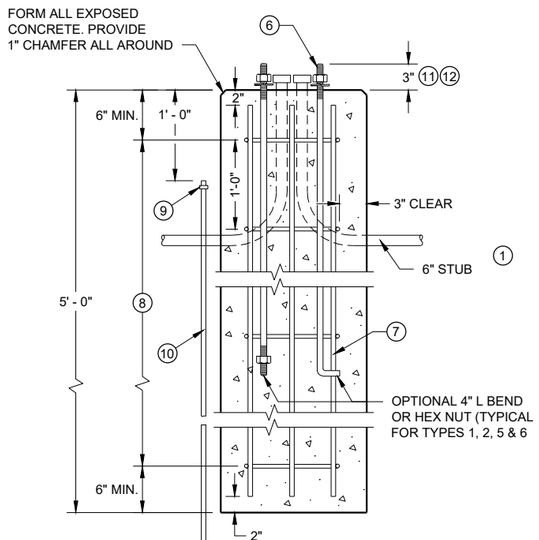
(TYPICAL FOR TYPES 1, 2, 5 & 6)



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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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.

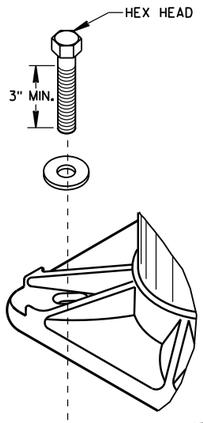
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

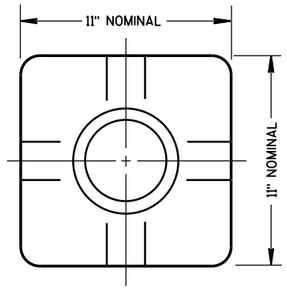
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

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

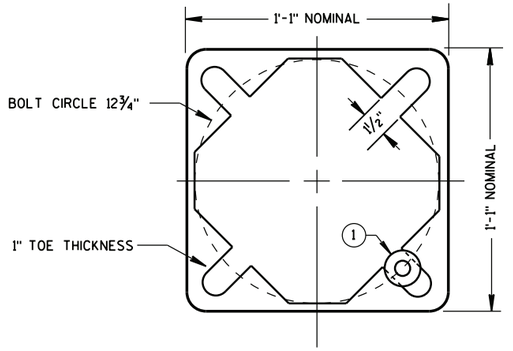
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

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

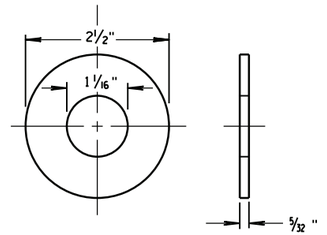




TOP VIEW
(PEDESTAL BASE)

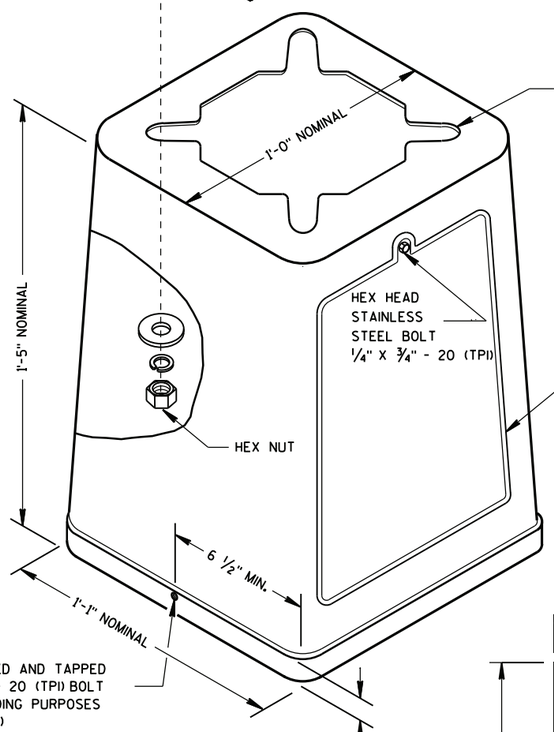


BOTTOM VIEW
(PEDESTAL BASE)

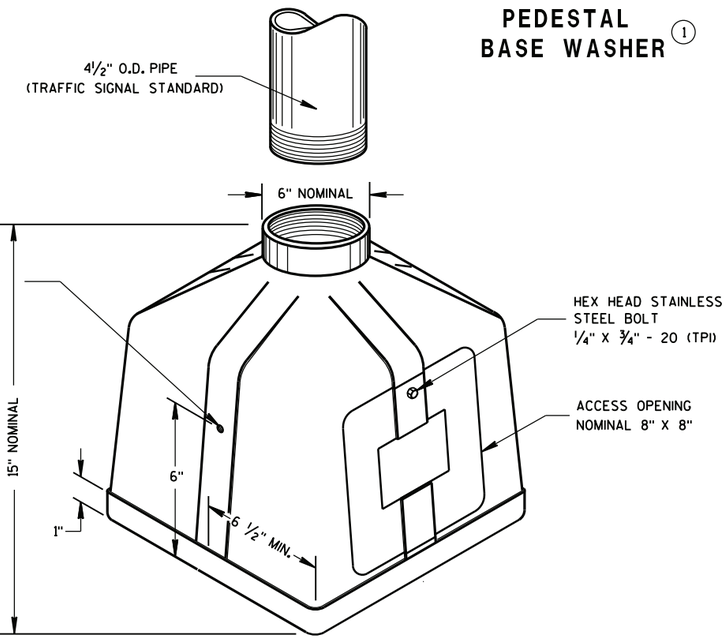


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

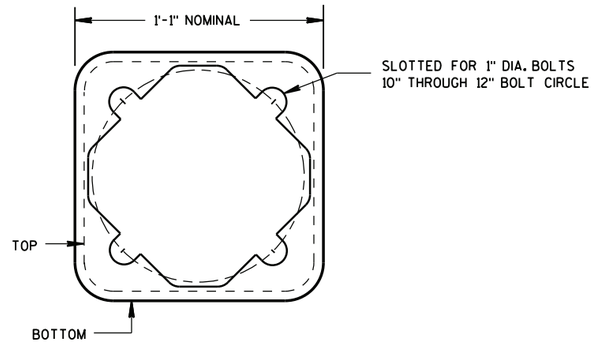


ISOMETRIC VIEW

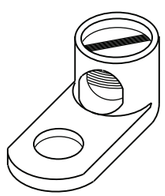


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

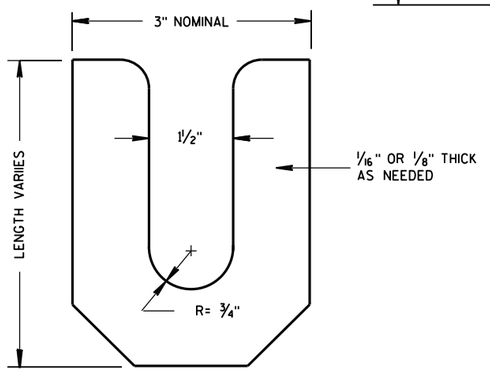


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

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



LEVELING SHIM

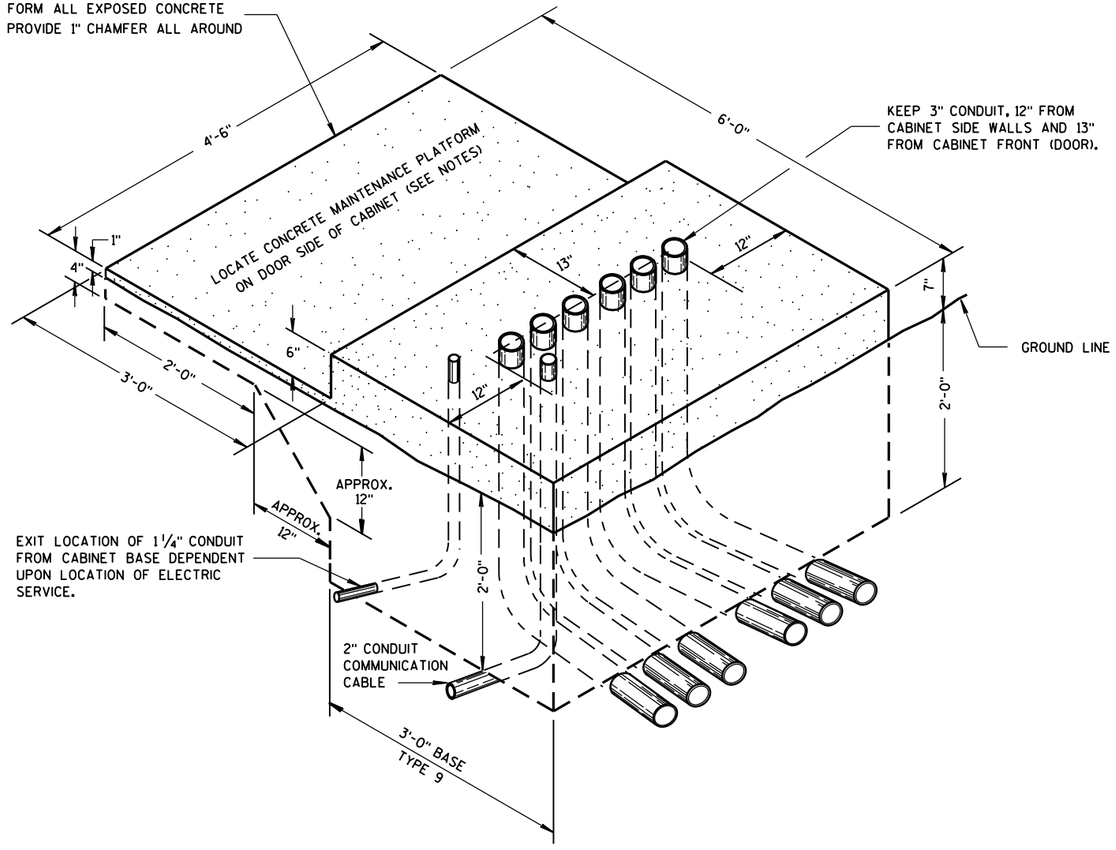
TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
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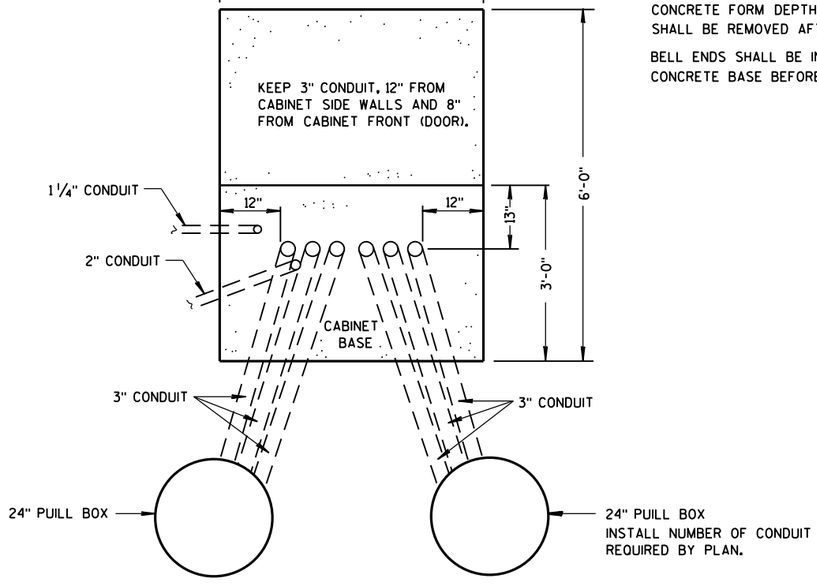
S.D.D. 9 C 3-4



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 ½ 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 NONMETALLIC 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 BE LEVEL.

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

MINIMUM BENDING RADIUS OF CONDUIT = 6 X 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 NONMETALLIC 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 NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

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

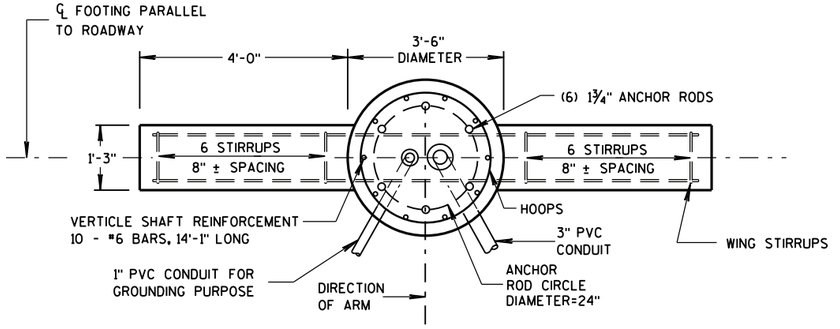
CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

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

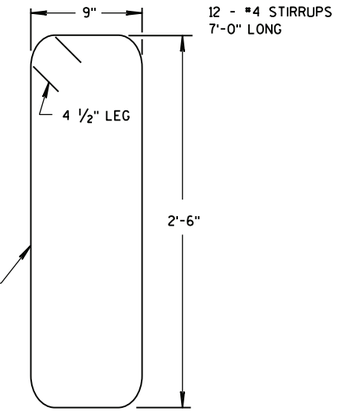
CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

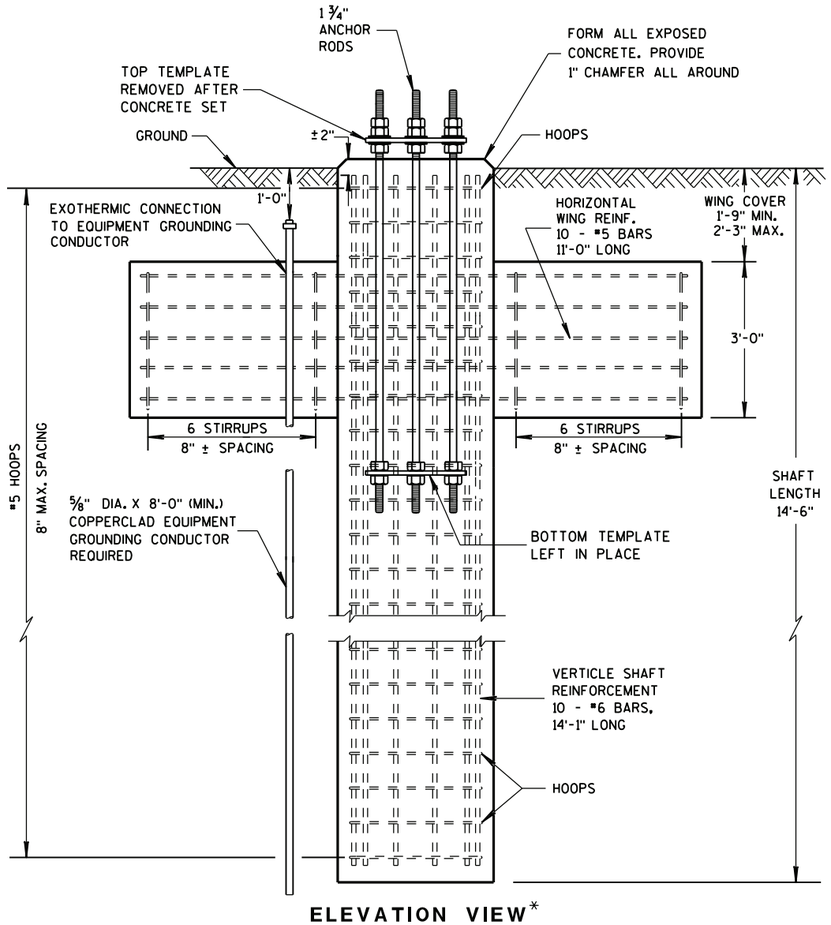
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PLAN VIEW

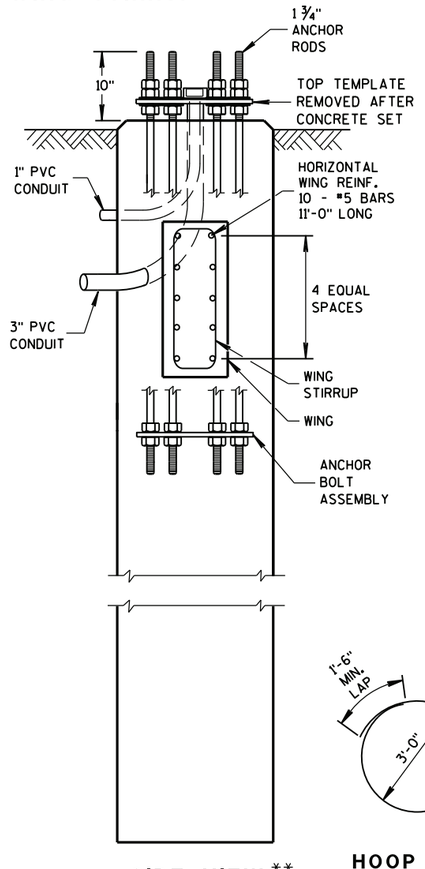


WING STIRRUP



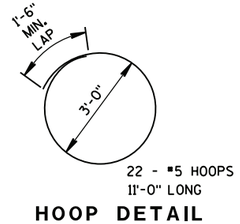
ELEVATION VIEW*

* CONDUITS ARE NOT SHOWN ON THIS VIEW FOR CLARITY



SIDE VIEW**

** HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY



HOOP DETAIL

GENERAL NOTES

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

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

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

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

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

BASES (SHAFT), BELOW THE WING, SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUNG THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

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

CONDUIT SIZE AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

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

CONDUIT HEIGHT ABOVE CONCRETE BASE SHALL BE 4½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF THE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC 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 NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTOR FITTINGS, UL LISTED FOR ELECTRICAL USE, SHALL BE USED.

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.

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

THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVEL 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 THE WRITTEN APPROVAL OF THE ENGINEER.

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

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 WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS	fy=55,000 p.s.i.
TEMPLATES, ASTM A709 GRADE 36	fy=36,000 p.s.i.

(FOR TYPE 12 & 13 & OVER HEIGHT (OH) POLES)

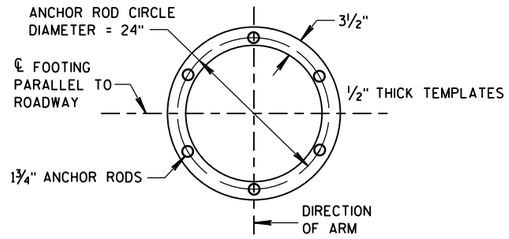
CONCRETE = 6.3 C.Y.
H.S. REINFORCEMENT = 635 LBS.

TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.
SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.

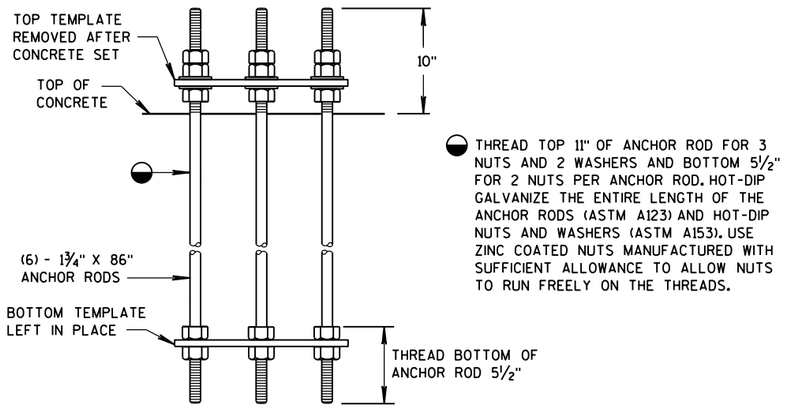
CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 9 C 12-9a

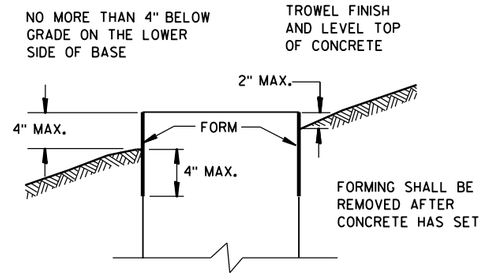


TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 13 ANCHOR ASSEMBLY



FORMING DETAIL

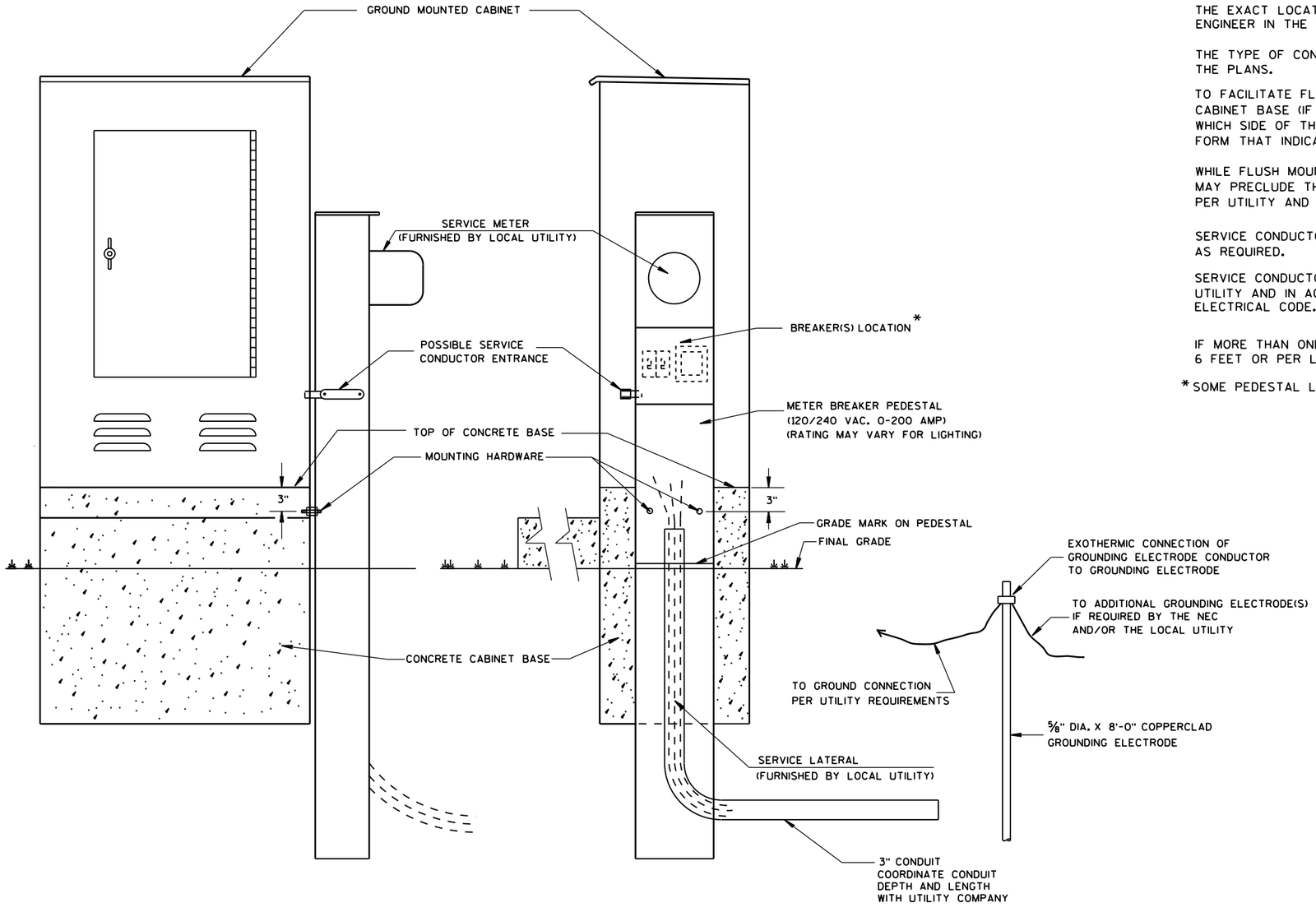
CONCRETE BASE TYPE 13	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2017 DATE FHWA	/S/ Ahmet Demirbilek STATE ELECTRICAL

6

S.D.D. 9 C 12-9b

6

S.D.D. 9 C 12-9b



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.

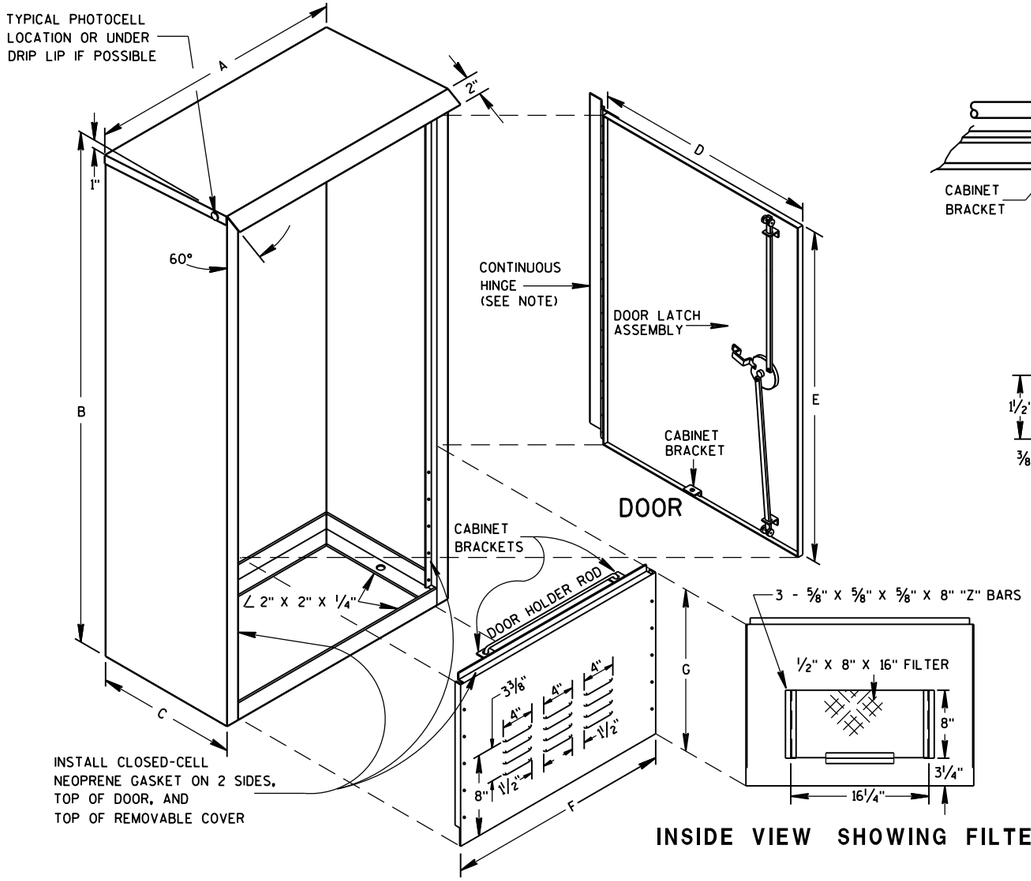
* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

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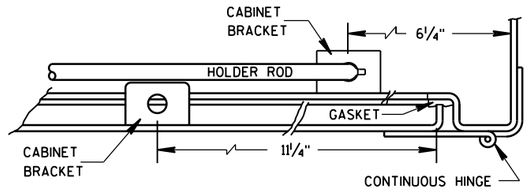
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 D 1-5

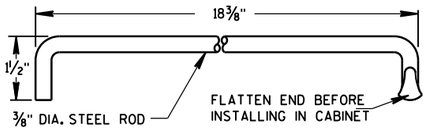


INSIDE VIEW SHOWING FILTER

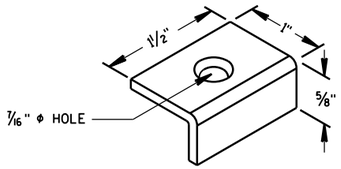
REMOVABLE COVER



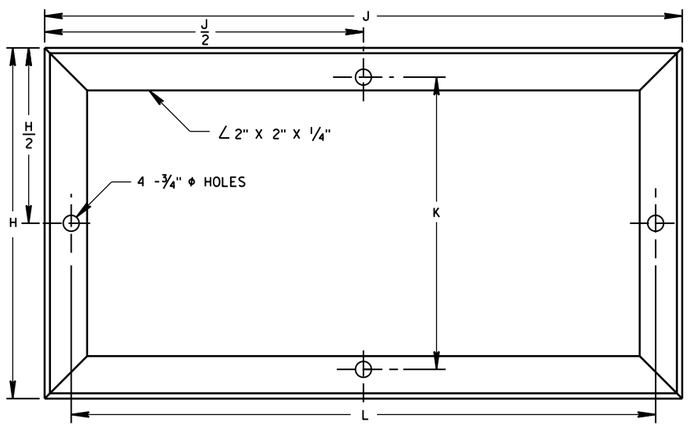
HINGE & DOOR HOLDER



HOLDER ROD



CABINET BRACKET



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2

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.

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

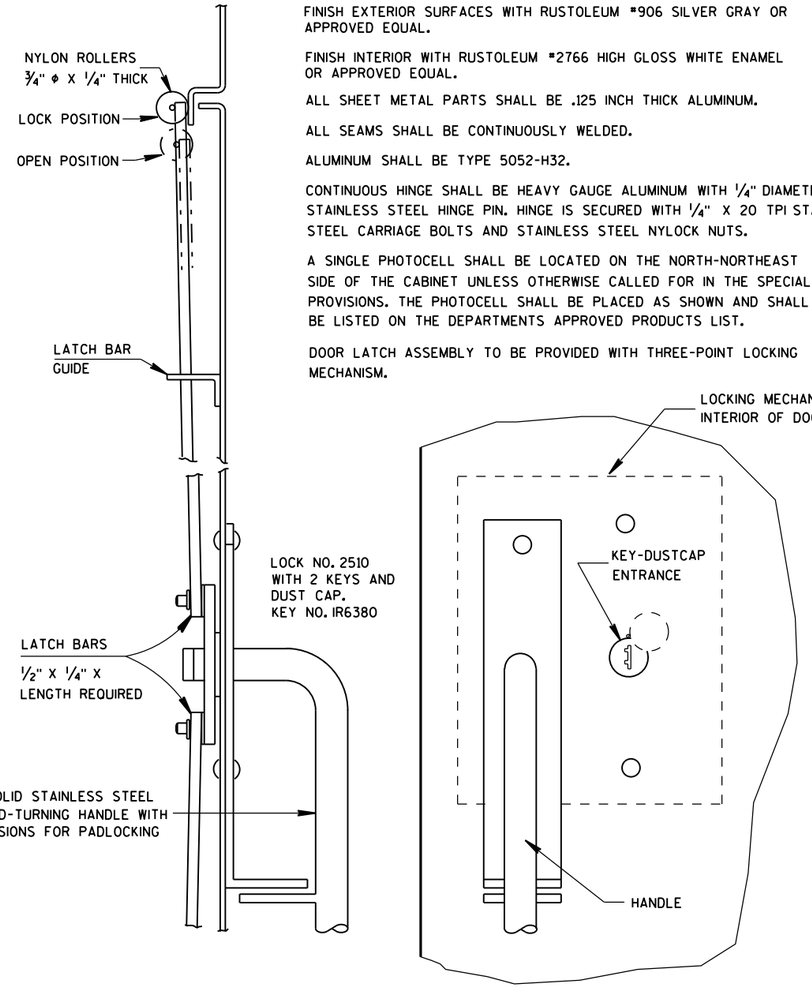
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST.

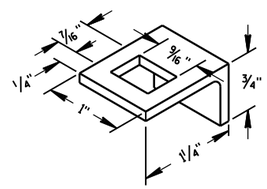
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

SIGNAL CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

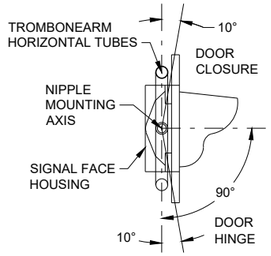
APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL 273
FHWA

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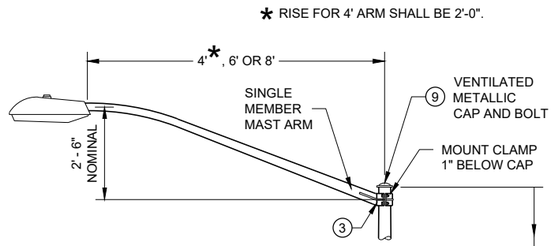
S.D.D. 9 D 2-3

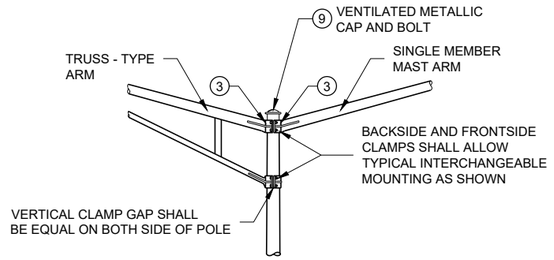
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S.D.D. 9 D 2-3

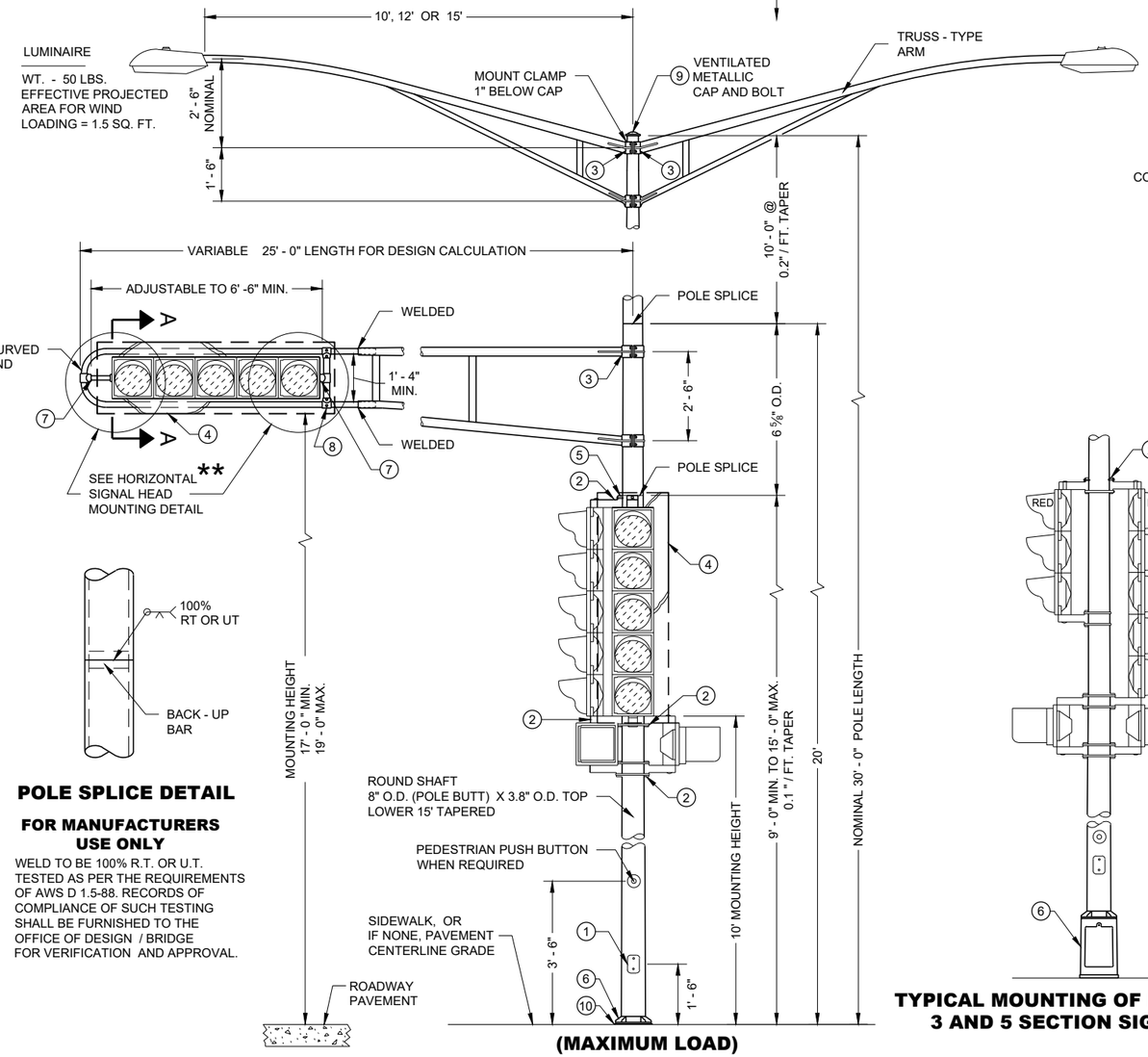


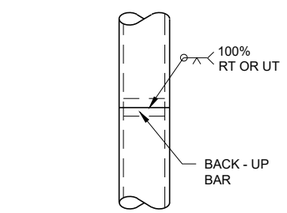
SECTION A-A





INTERCHANGEABLE MOUNTING DETAIL

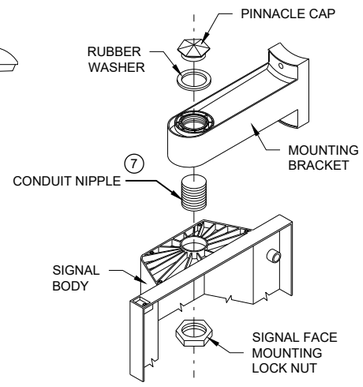




POLE SPLICE DETAIL

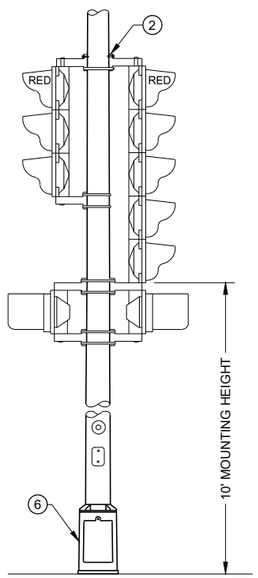
FOR MANUFACTURERS USE ONLY

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.

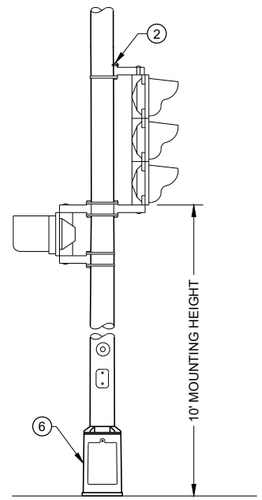


SIGNAL FACE MOUNTING DETAIL

(BANDED)



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



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE

GENERAL NOTES

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

ALL TYPE 3 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL.

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.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER 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) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED. UNDER MAX LOADING, TYPE 3 POLE SHALL BE MOUNTED DIRECTLY TO ITS CONCRETE BASE.

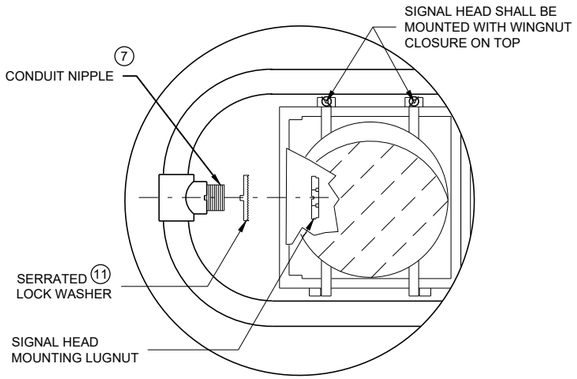
(7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE 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 STRUT IS 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 POLE.

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



HORIZONTAL SIGNAL HEAD ** MOUNTING DETAIL

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

TYPE 3 POLE MOUNTING CONFIGURATION

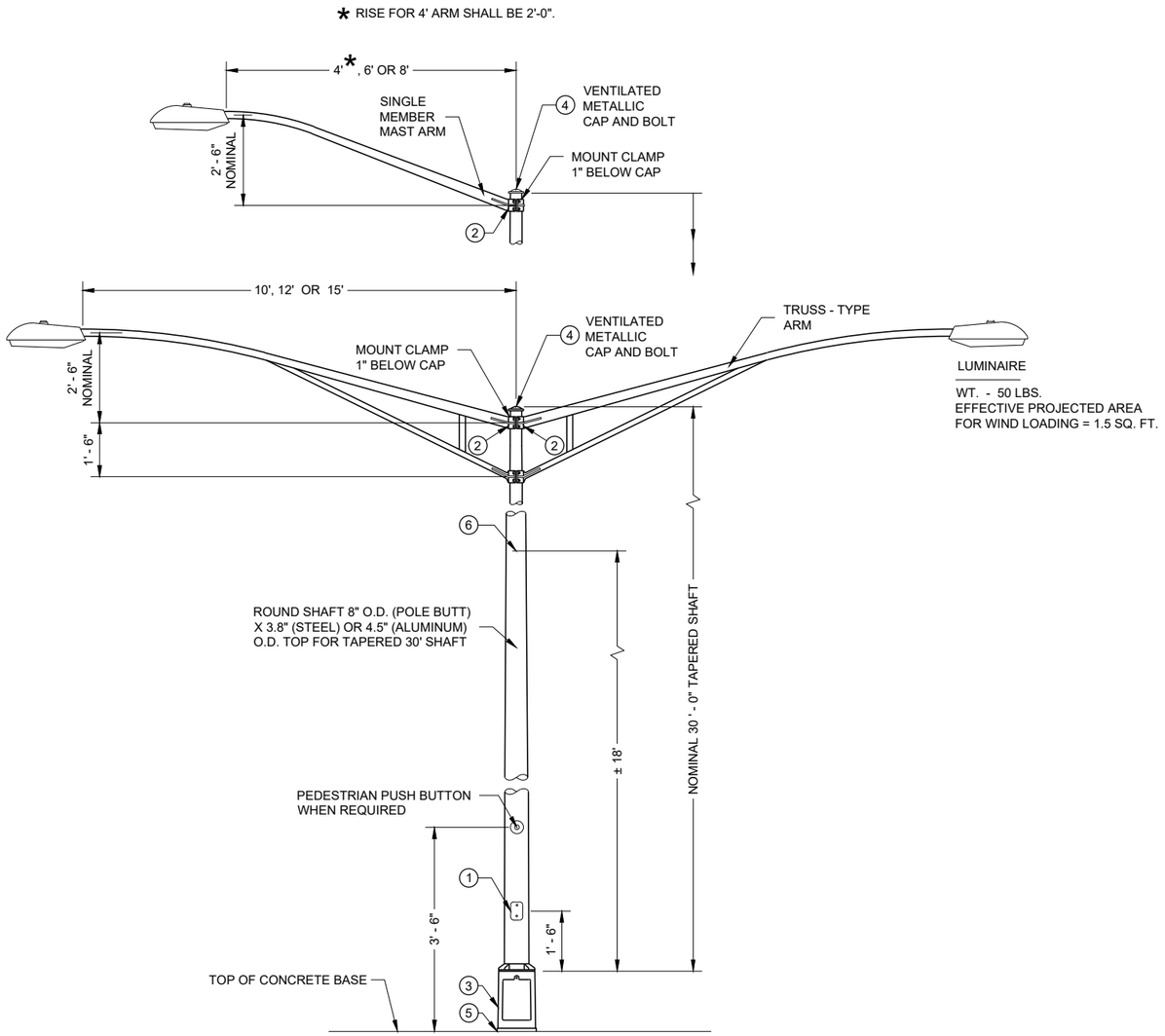
(MAXIMUM LOAD)

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS TYPE 3 (HEAVY DUTY)

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TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

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

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

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

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

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

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

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

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

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

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

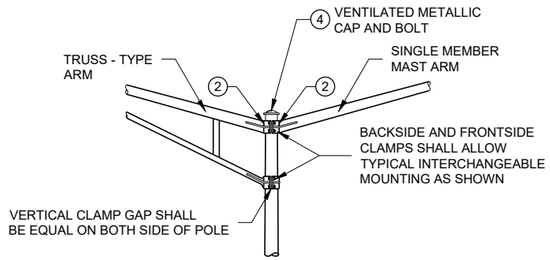
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

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

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.

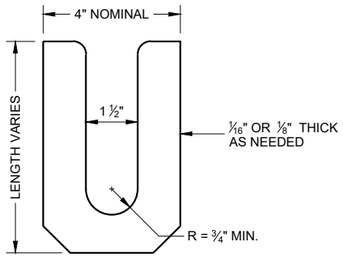


INTERCHANGEABLE MOUNTING DETAIL

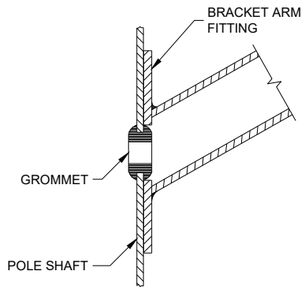
POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

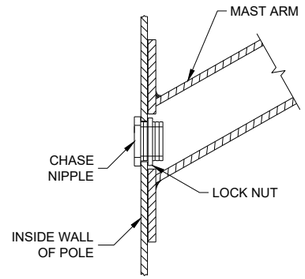
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LEVELING SHIM (1)
SHALL BE ALUMINUM



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.

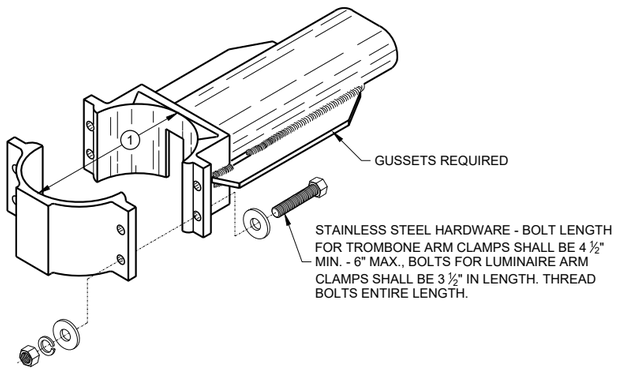
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

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

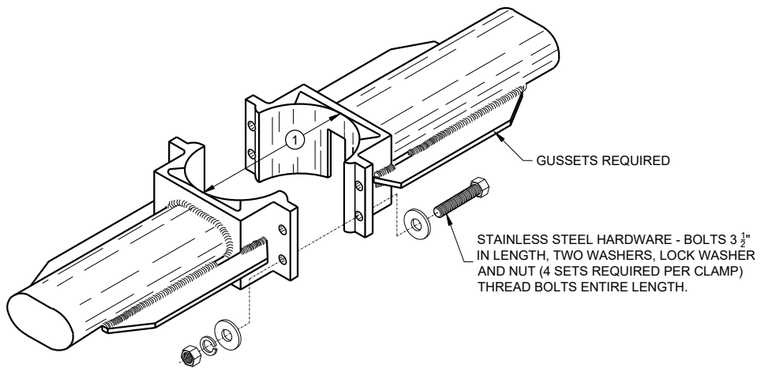
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(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.

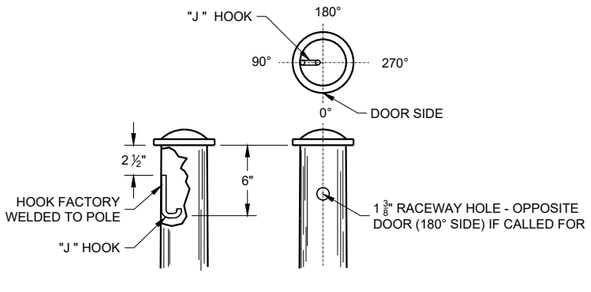
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



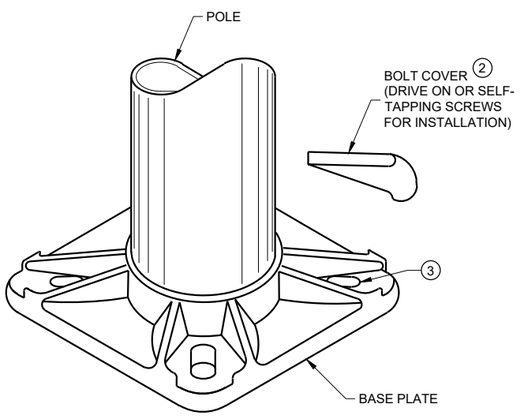
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



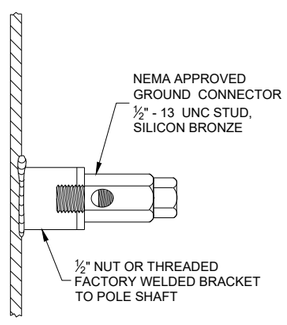
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

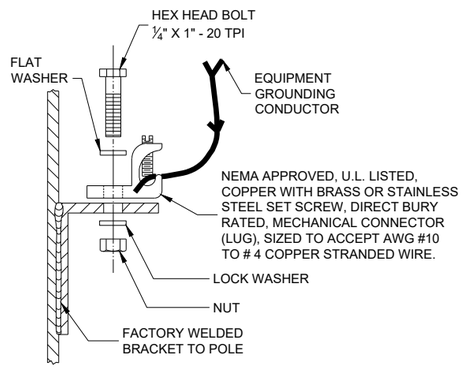


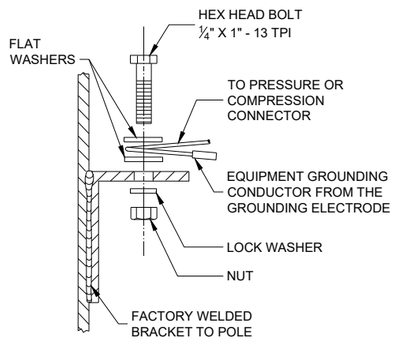
TYPICAL "J" HOOK LOCATION



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
STATE ELECTRICAL ENGI 276

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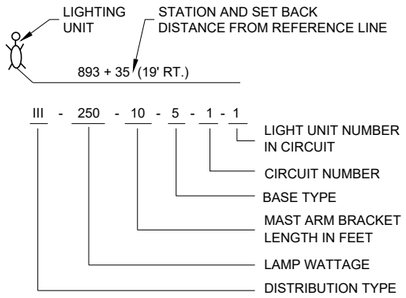
SDD 09A01 - 15g

GENERAL NOTES

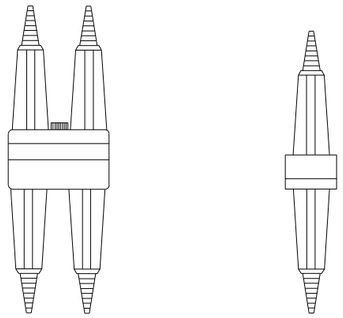
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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.

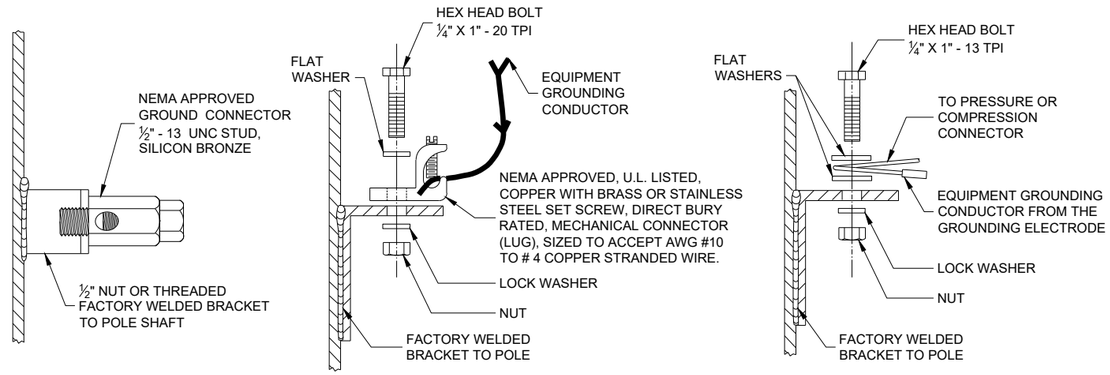


LIGHTING UNIT CODE
(TYPICAL)

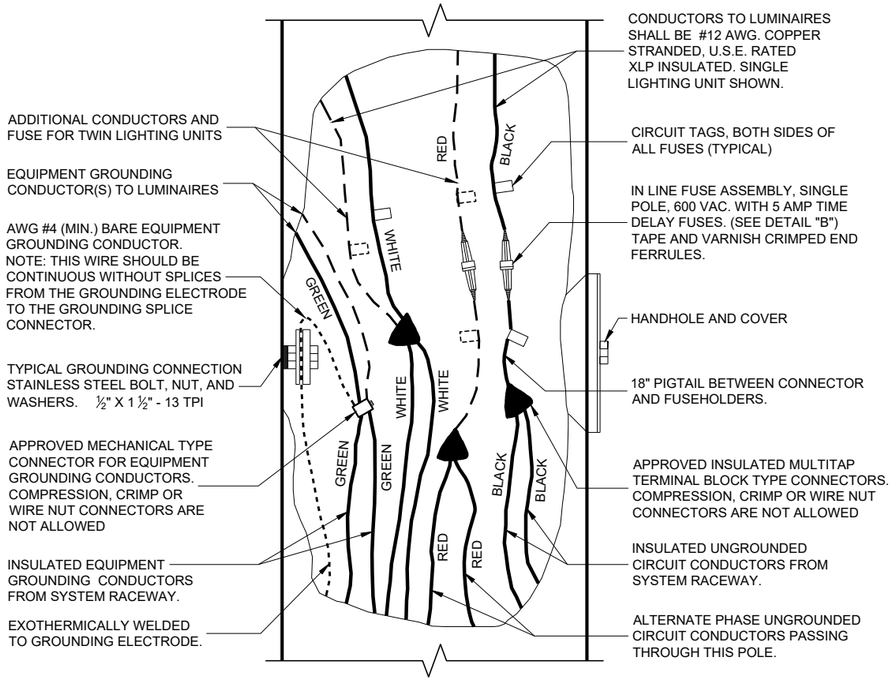


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

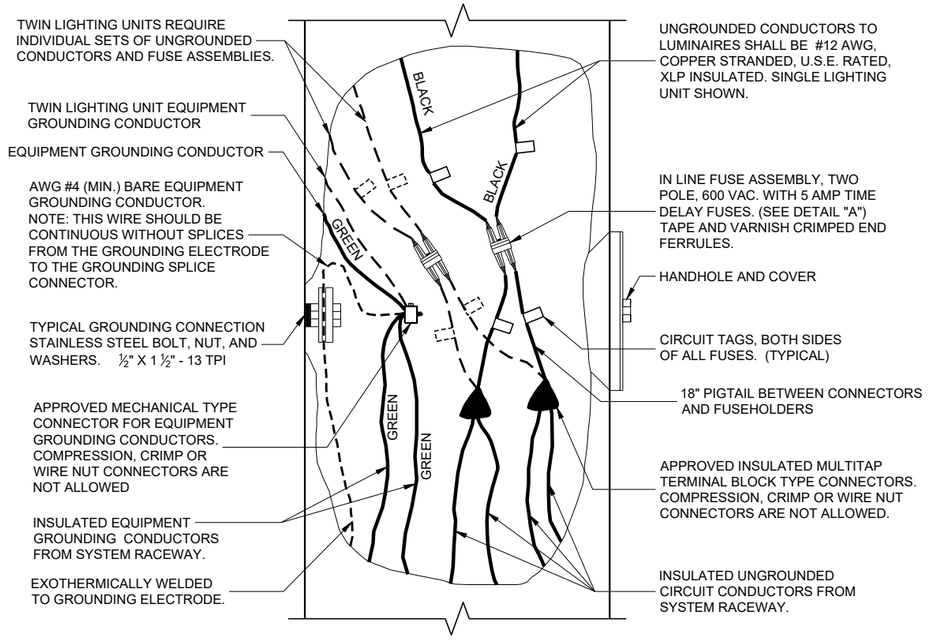
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



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



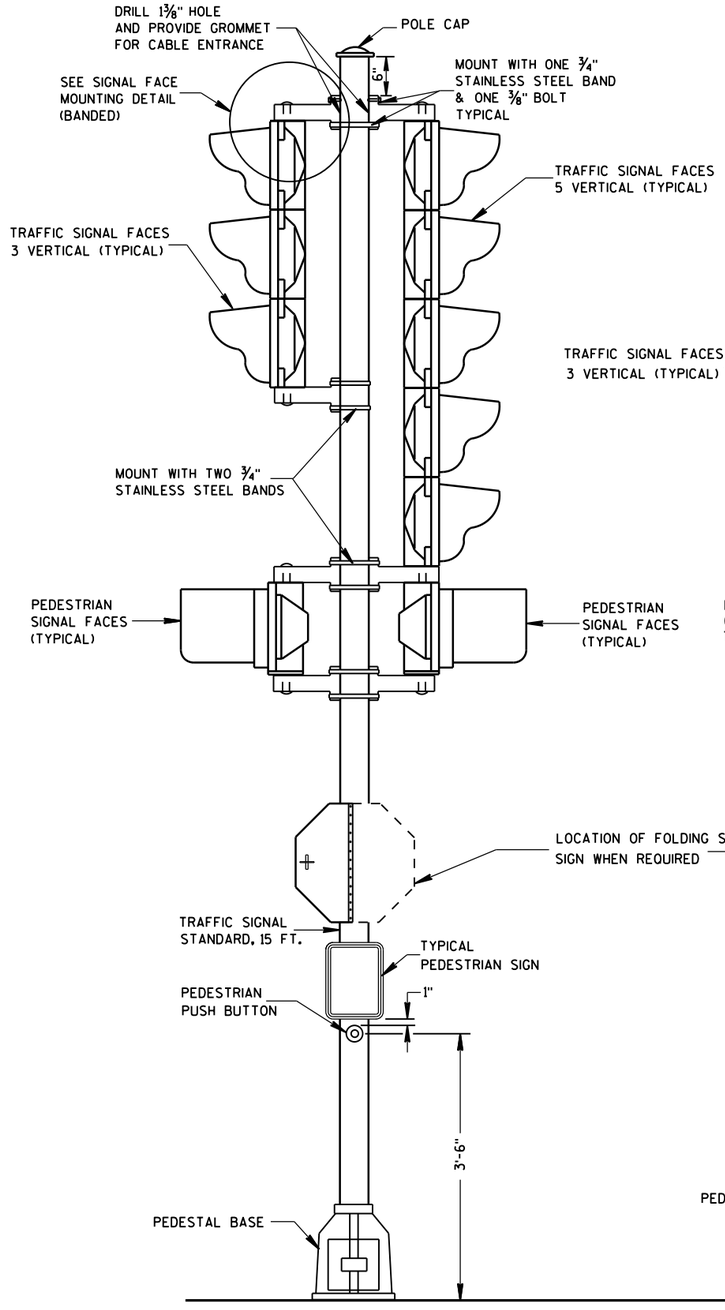
2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

NON - FREEWAY LIGHTING UNIT POLE WIRING

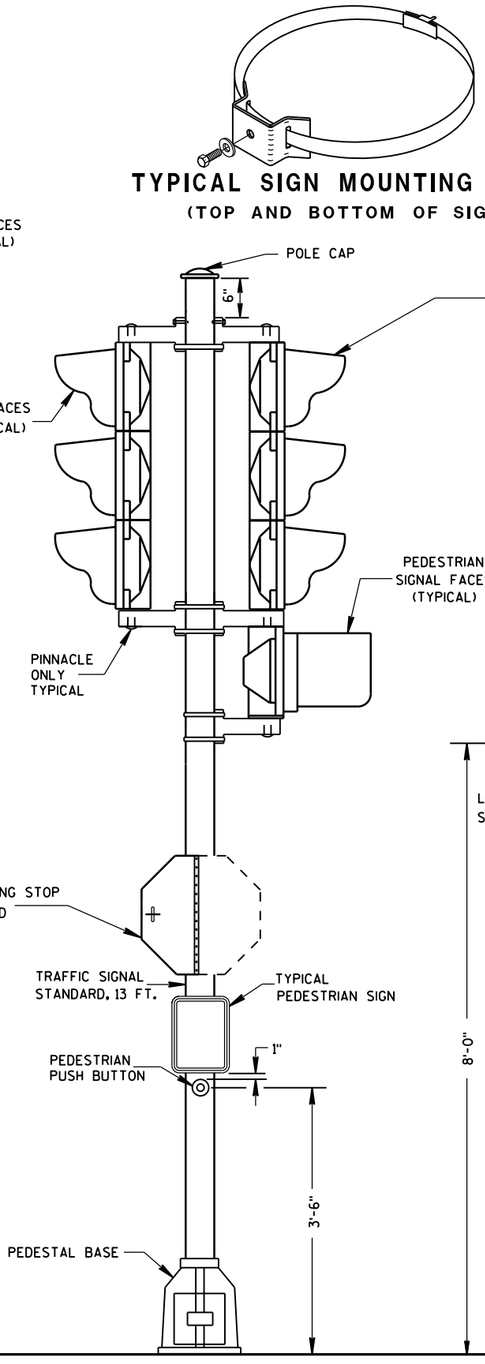
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
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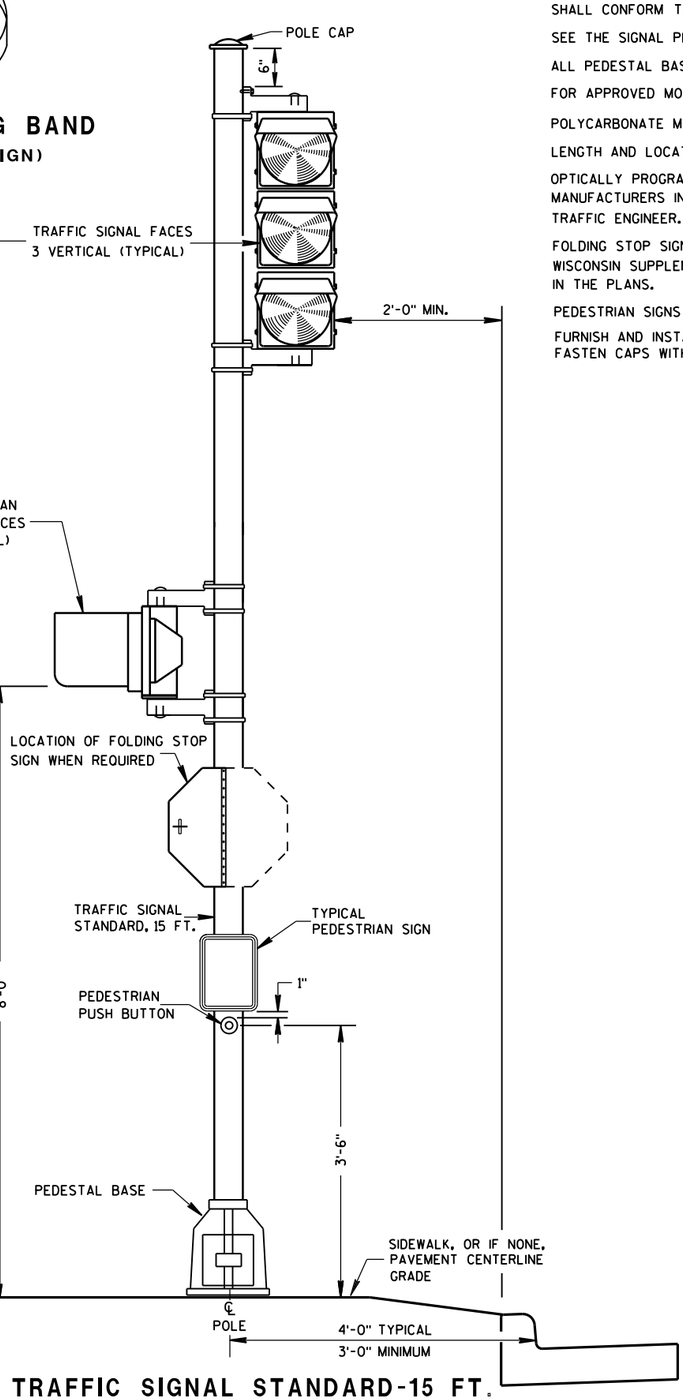


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-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.

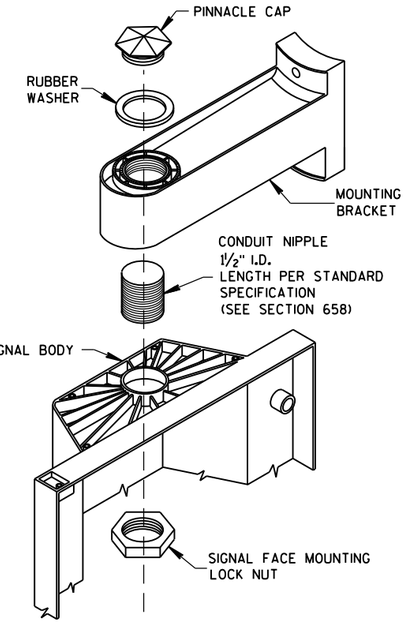
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

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) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SIGNAL FACE MOUNTING DETAIL
(BANDED)

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

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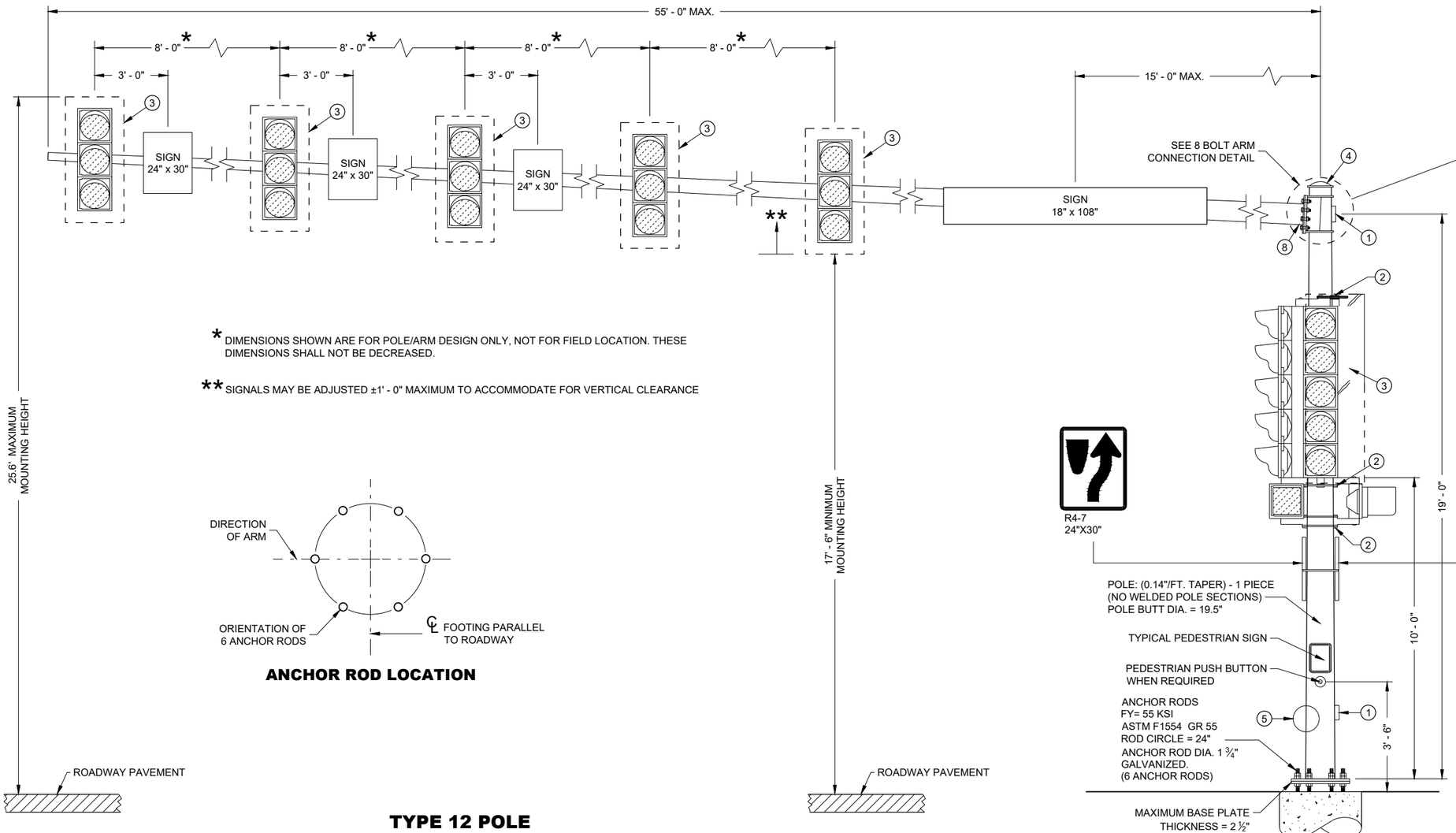
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2/28/2013
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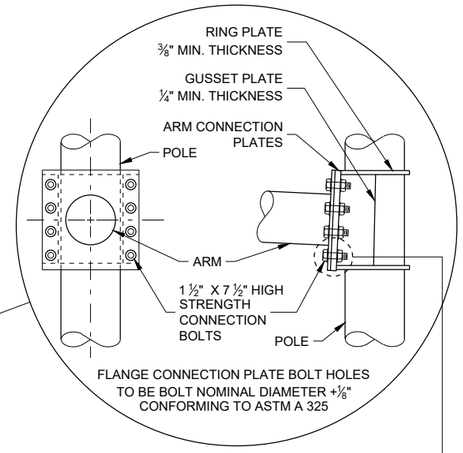
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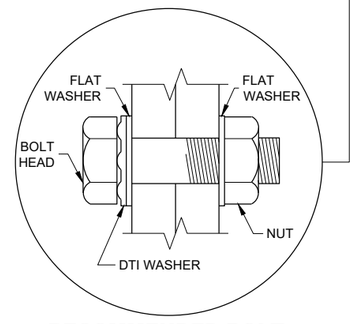
* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

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

ANCHOR ROD LOCATION



8 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 12 POLE
35' - 55' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 12 POLE
35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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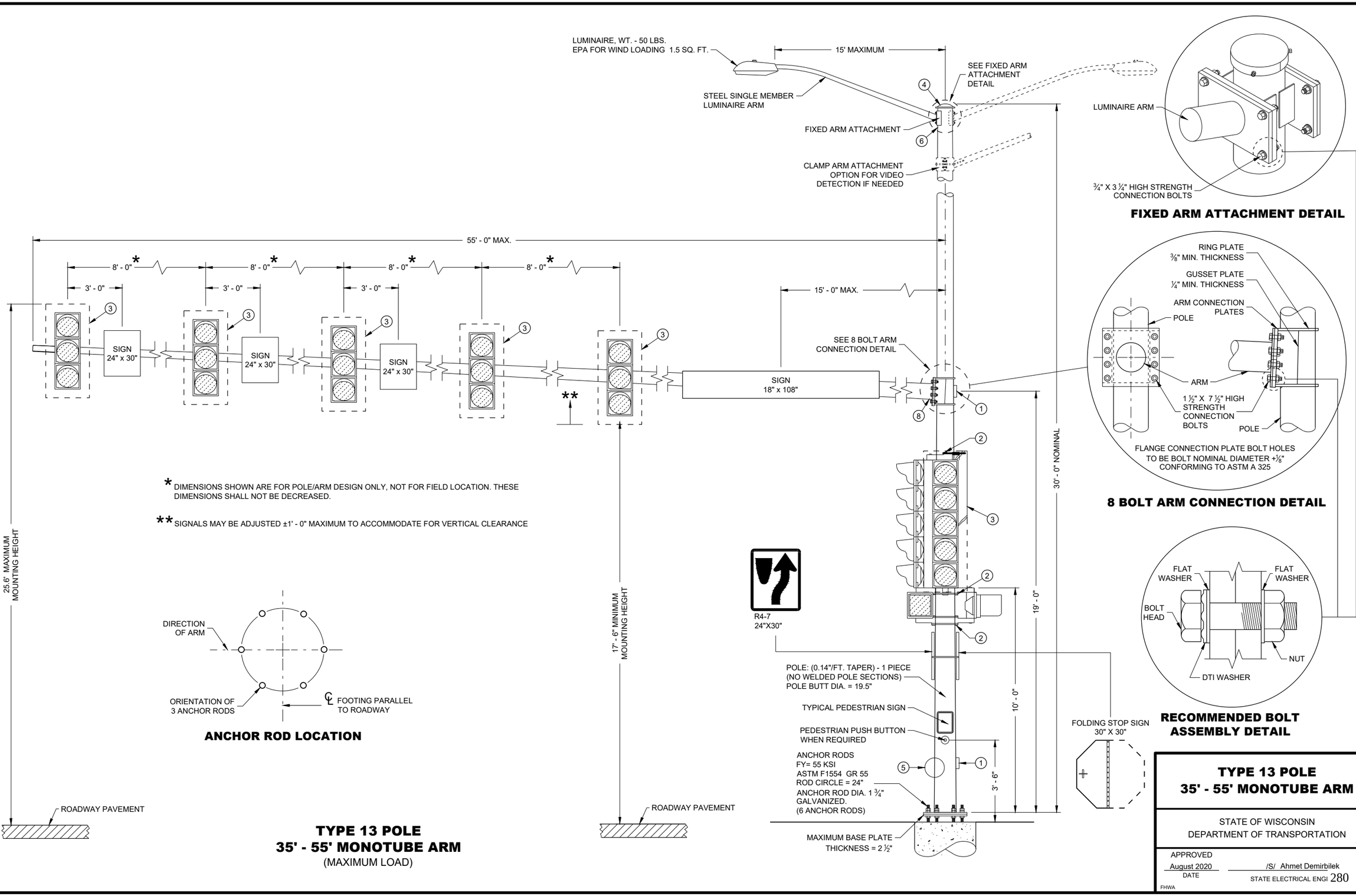
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FIXED ARM ATTACHMENT DETAIL

8 BOLT ARM CONNECTION DETAIL

RECOMMENDED BOLT ASSEMBLY DETAIL

* 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

TYPE 13 POLE
35' - 55' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 13 POLE
35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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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.

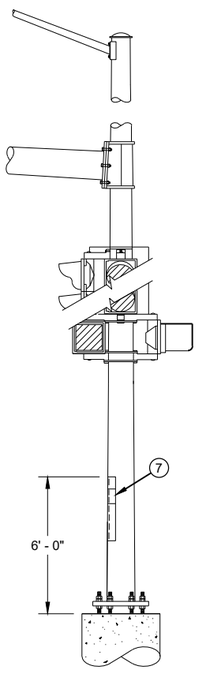
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

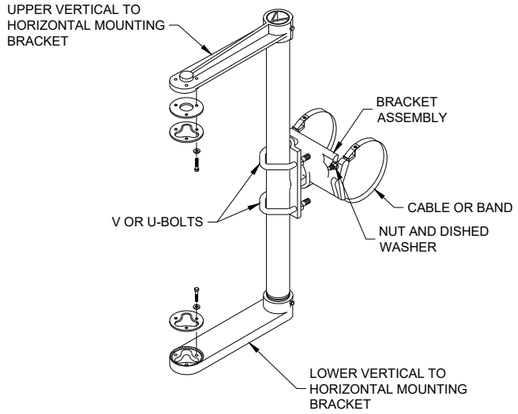
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

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.

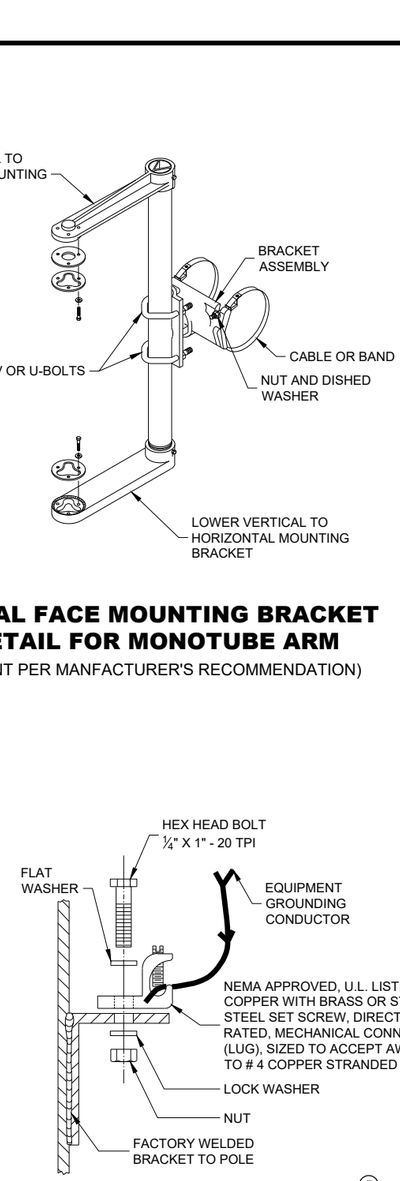


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



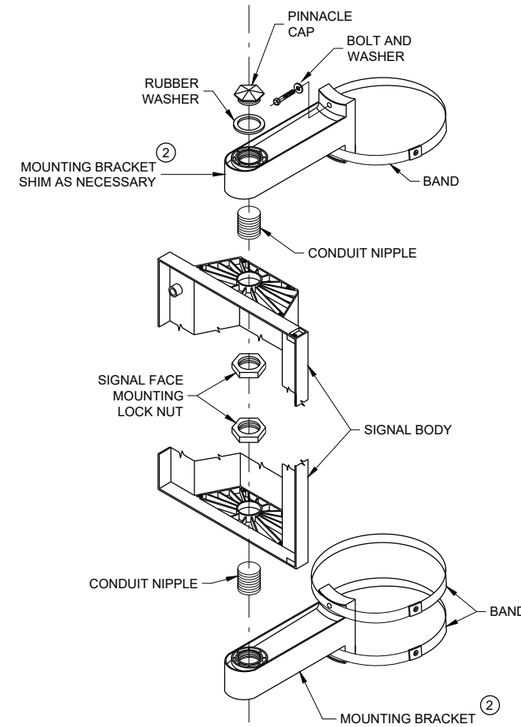
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANFACTURER'S RECOMMENDATION)

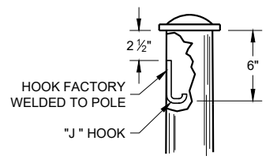


TYPICAL GROUNDING (5) CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



TYPICAL "J" HOOK (6) WIRE SUPPORT

GENERAL NOTES AND HARDWARE FOR TYPES 9,10, 9/10 SPECIAL, 12 AND 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
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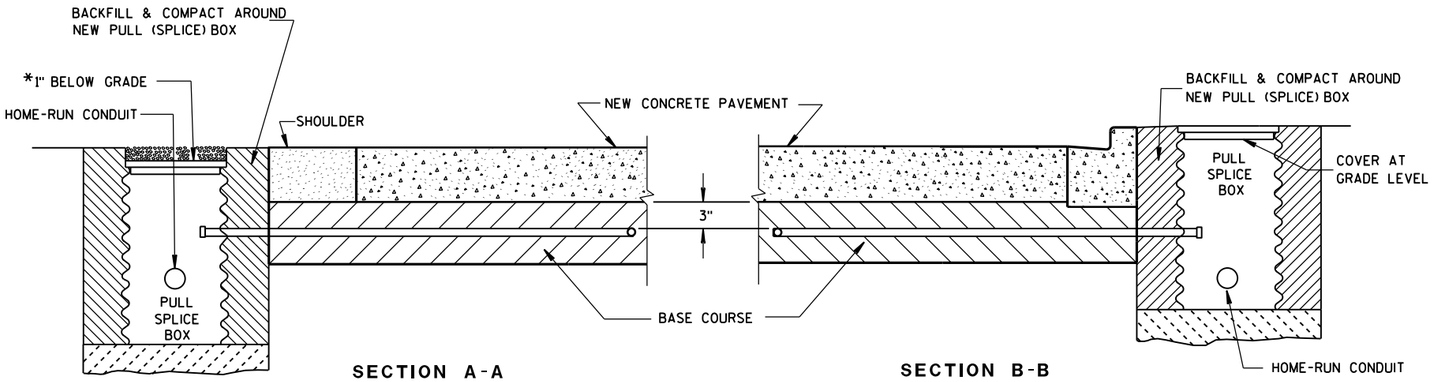
APPROVED
August 2020
DATE

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STATE ELECTRICAL ENGINEER

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SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) 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.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

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 READINGS 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.

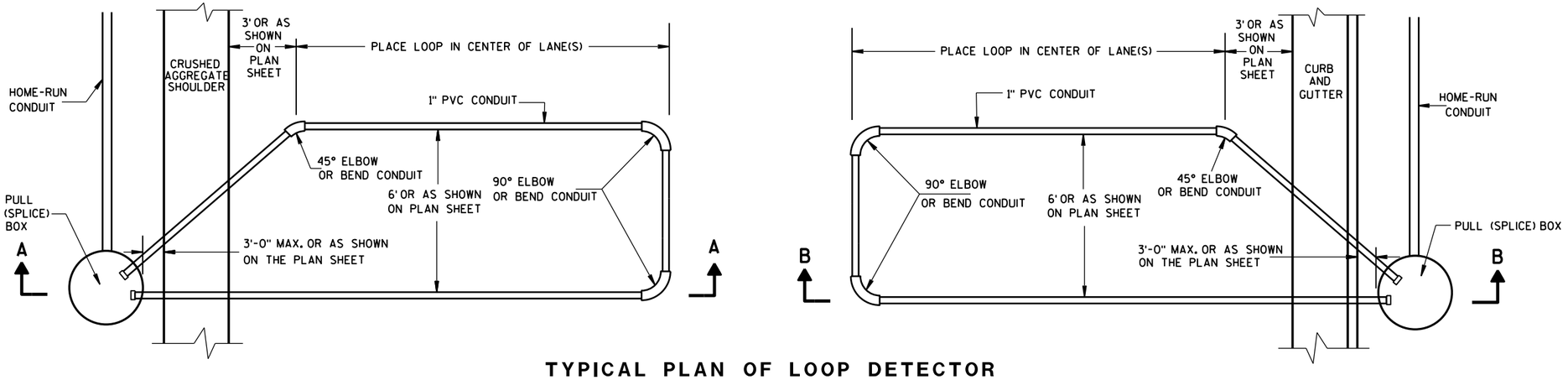
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICE CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE, SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 18" OR 24" PULL (SPLICE) BOX

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)

STATE OF WISCONSIN
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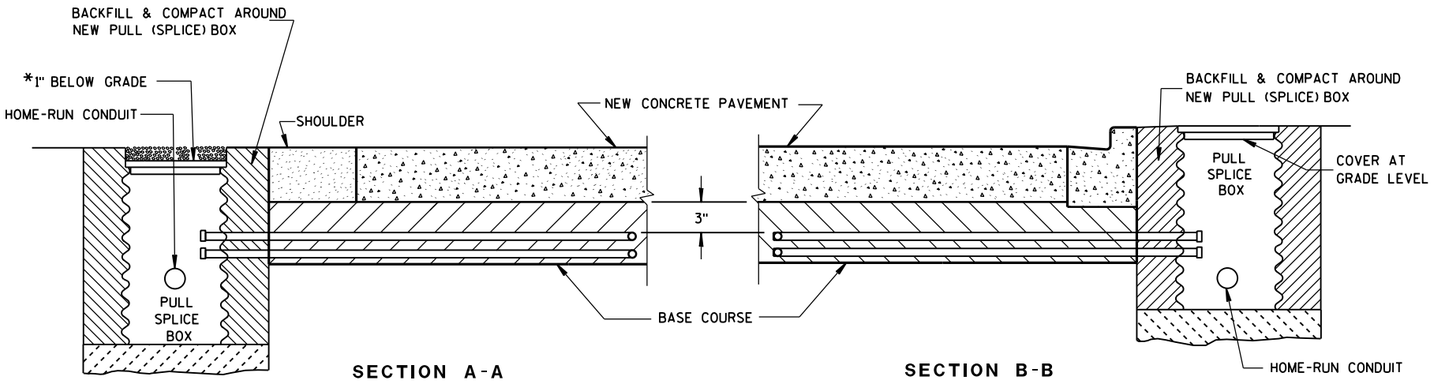
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Sept. 2014 — DATE
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S.D.D. 9 F 15-4a



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) 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.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

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 READINGS 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.

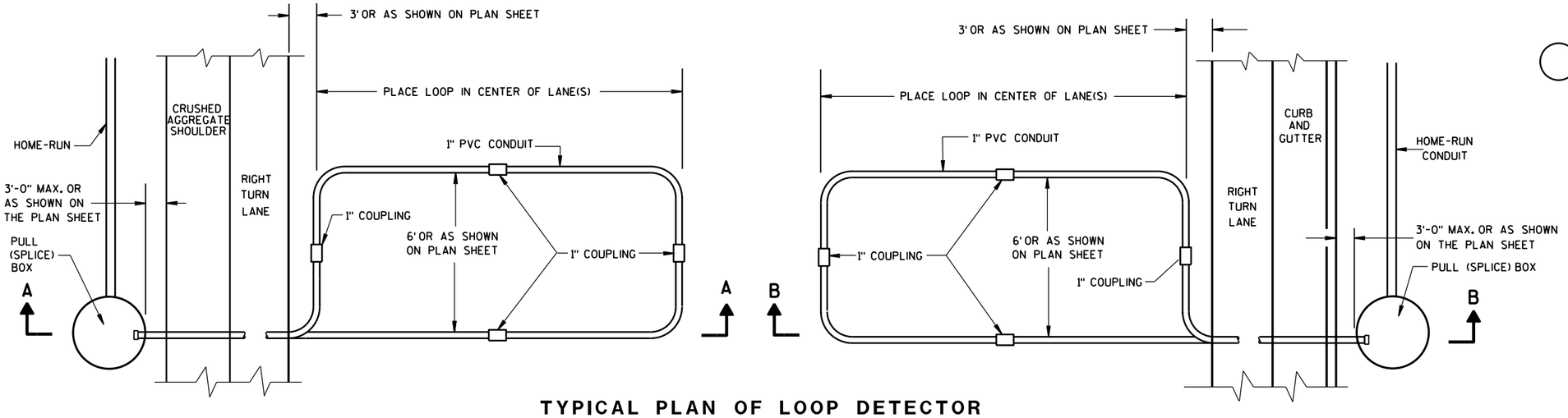
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

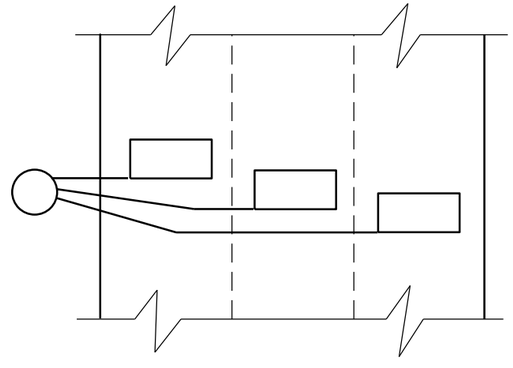
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

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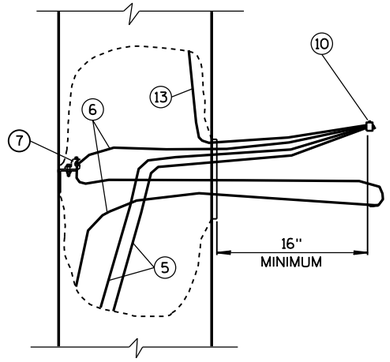
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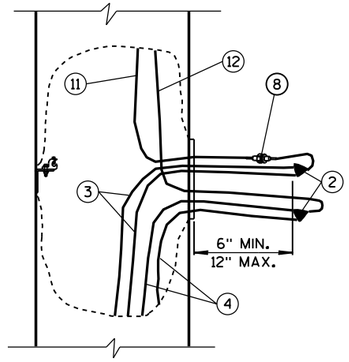
S.D.D. 9 F 15-4b

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S.D.D. 9 F 15-4b

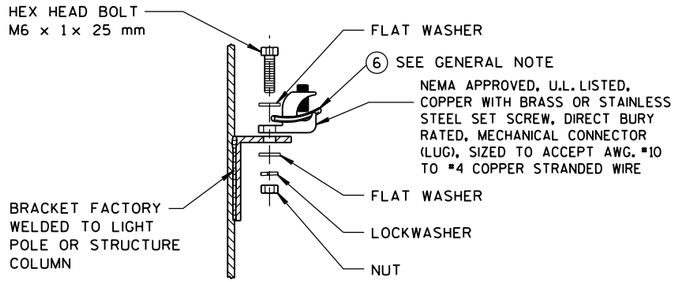


EQUIPMENT GROUNDING CONDUCTOR SLACK



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

TYPICAL CONDUCTOR SLACK AT HANDHOLES



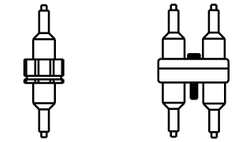
HANDHOLE GROUNDING LUG

(NUT, BOLT, WASHERS, AND LOCK WASHERS SHALL BE STAINLESS STEEL)

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.



FUSE ASSEMBLIES

GENERAL NOTES

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

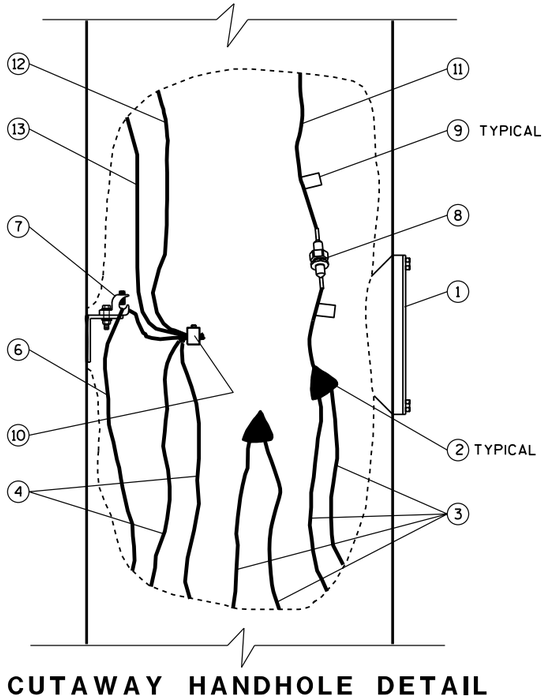
USE THIS DETAIL IN CONJUNCTION WITH THE ELECTRICAL DETAILS FOR THE APPLICATION, WHICH MAY BE A LIGHT POLE, SIGN BRIDGE, ETC.

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.

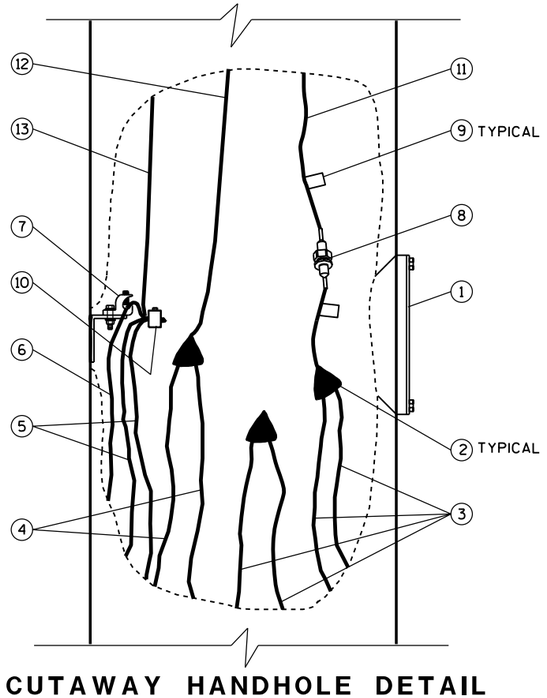
IN 3-PHASE SYSTEMS, THERE WILL BE ONE MORE UNGROUNDED LINE WIRE, WHICH IS OMITTED FROM THE DRAWING FOR CLARITY.

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



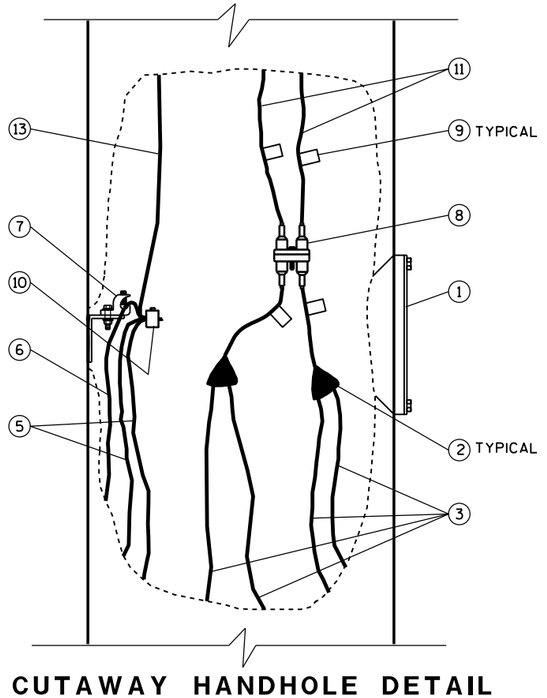
CUTAWAY HANDHOLE DETAIL

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

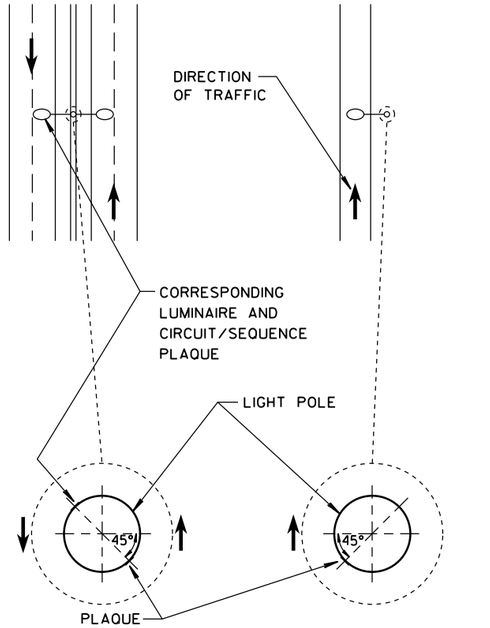
ELECTRICAL HANDHOLE WIRING

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MEDIAN POLE SINGLE ARM POLE

LOCATION OF LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

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.

WHERE SHOWN IN THE PLANS, REPLACEMENT PLAQUES WILL BE MEASURED AND PAID SEPARATELY.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 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-RETRORFLECTIVE

LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE

CHARACTERS - BLACK, SELF-ADHESIVE, SERIES "D", SIZE AS SHOWN

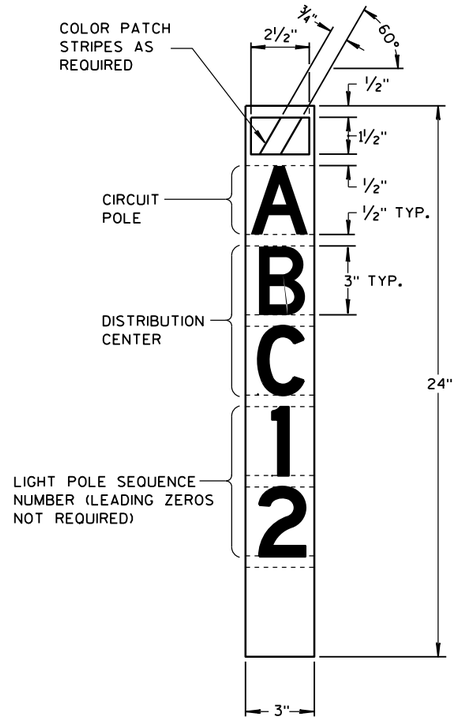
COLOR PATCHES - VARIOUS COLORS, SELF-ADHESIVE VINYL SHEETING

WITH THE APPROVAL OF THE ENGINEER, THE BASE MATERIAL MAY BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE SURFACE, IN CASES SUCH AS SMOOTH, CLEAN ALUMINUM POLES.

ALTERNATIVE COMPUTER-GENERATED SIGN LETTERING MAY BE ACCEPTED IF THE ENGINEER FINDS IT TO BE EQUIVALENT.

COLOR PATCH CODE FOR HPS AND LED LUMINAIRES

HPS	LED	COLOR PATCH CODE
1000 WATT		NO PATCH
400 WATT	CATEGORY D	ORANGE
310 WATT		BLUE
250 WATT	CATEGORY C	ORANGE WITH WHITE STRIPE
200 WATT		RED
150 WATT	CATEGORY B	GREEN
100 WATT	CATEGORY A	BROWN
70 WATT	CATEGORY UDL	BROWN WITH WHITE STRIPE



LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

IDENTIFICATION PLAQUES LIGHT POLES

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S.D.D. 10 A 2-3

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 DETAIL FOR ELECTRICAL HANDHOLE WIRING, SDD10A01.

USE TIME DELAY FUSE PER LUMINAIRE MANUFACTURER RECOMMENDATION.

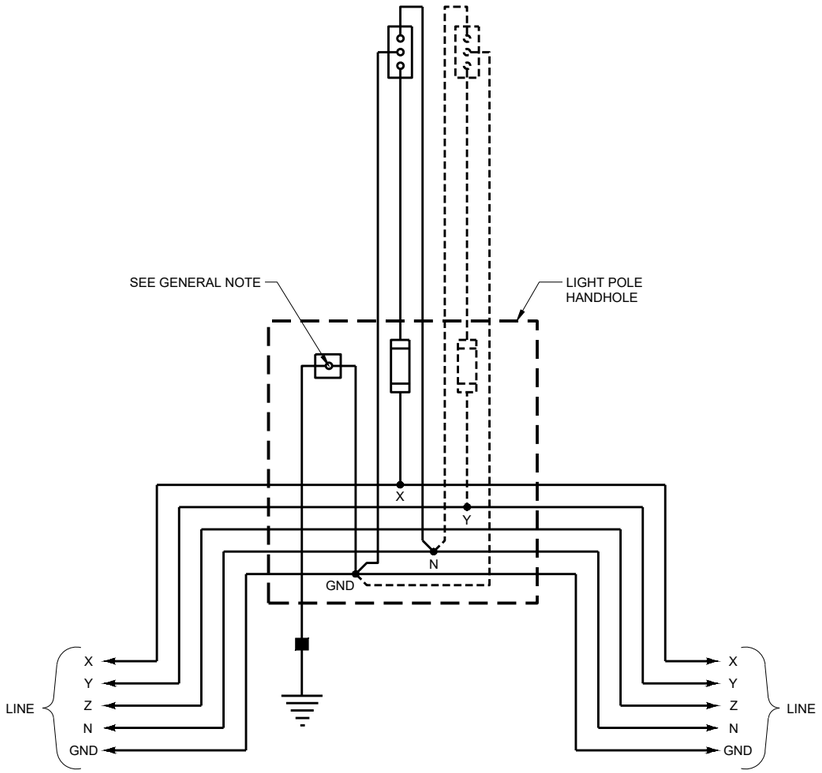
THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLD GROUNDING LUG TO THE CONNECTOR.

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

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

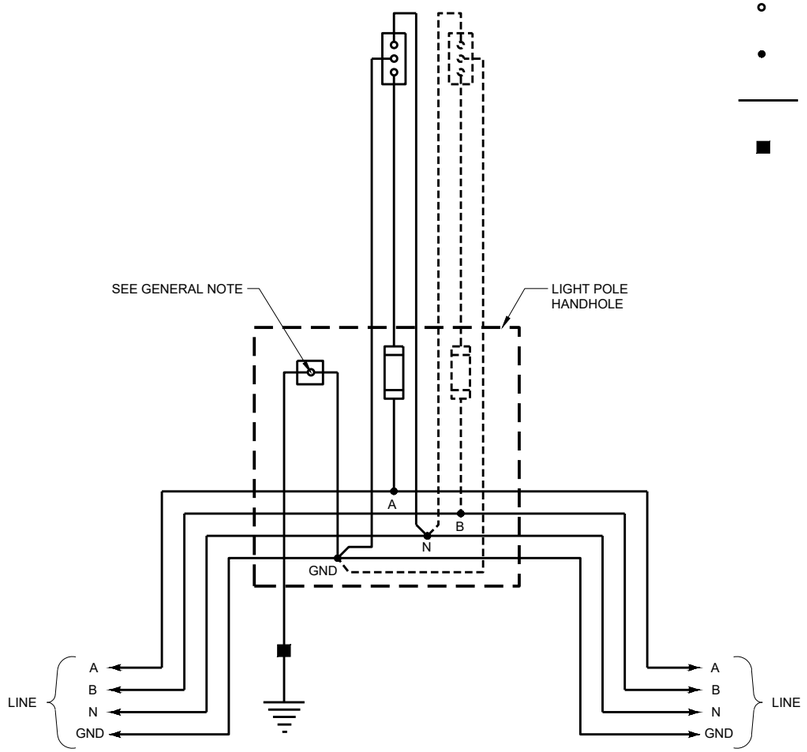
LEGEND

A,B,X,Y,Z	UNGROUNDED CIRCUIT CONDUCTORS
N	GROUNDED CIRCUIT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
ϕ	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
	SINGLE-POLE (1P) FUSE ASSEMBLY
	UNFUSED LUMINAIRE
	EQUIPMENT GROUNDING ELECTRODE
	TERMINAL
	SPLICE
	CONDUCTOR
	EXOTHERMIC WELD



TYPICAL WIRING DIAGRAM

ISOLATED NEUTRAL SYSTEM
3 - ϕ 208Y / 120VAC OR 480Y / 277VAC 4 WIRE



TYPICAL WIRING DIAGRAM

ISOLATED NEUTRAL SYSTEM
1 - ϕ 120 / 240VAC OR 240 / 480VAC 3 WIRE

ELECTRICAL DETAILS
GROUND MOUNT LIGHT POLES
ISOLATED NEUTRAL SYSTEM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

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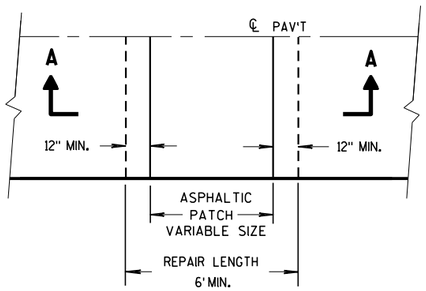
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

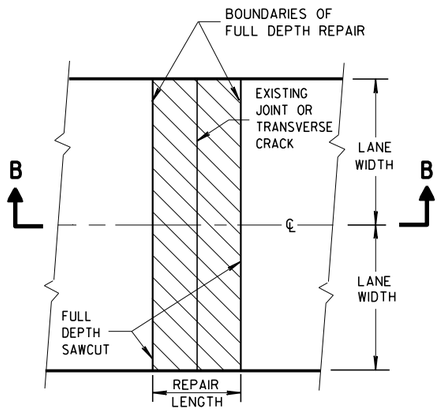
PROVIDE A 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

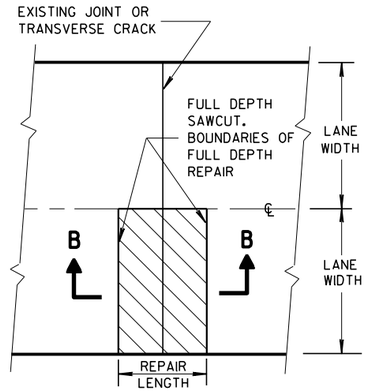
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW

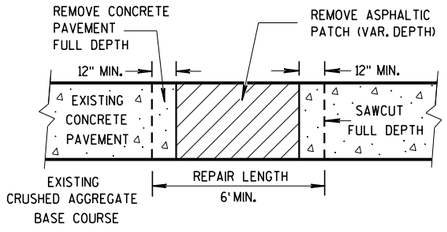


PLAN VIEW
(DOUBLE LANE REPAIR)



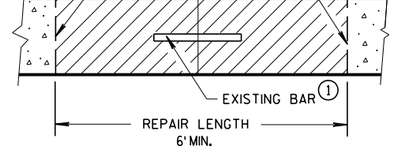
PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

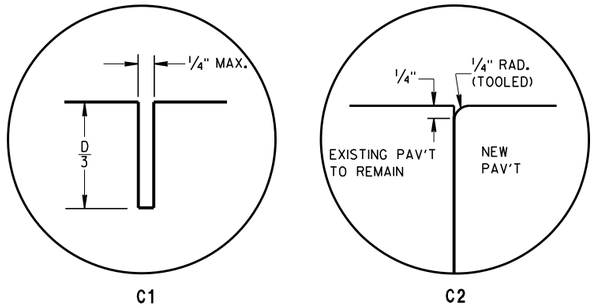
HMA PATCH REMOVAL



SECTION B-B

CONCRETE REMOVAL

CONCRETE PAVEMENT REPAIR AND REPLACEMENT



C1 C2

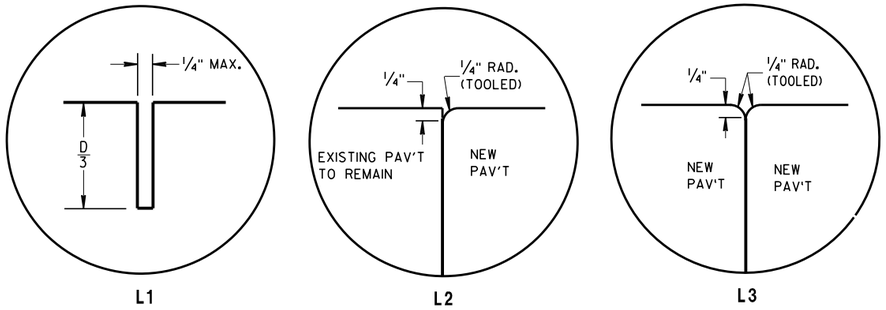
TRANSVERSE JOINTS

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

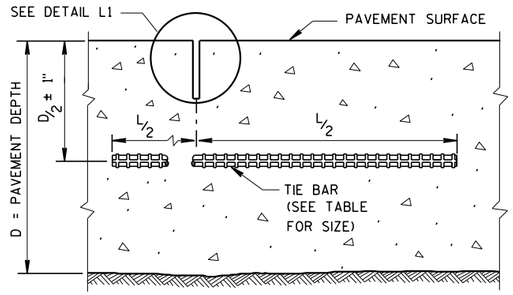
* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



L1 L2 L3

LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT

GENERAL NOTES

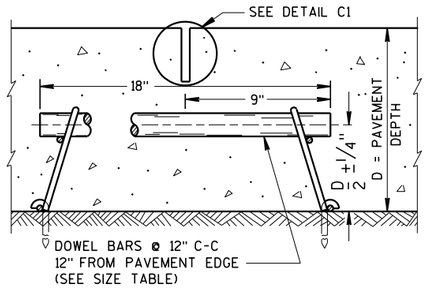
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

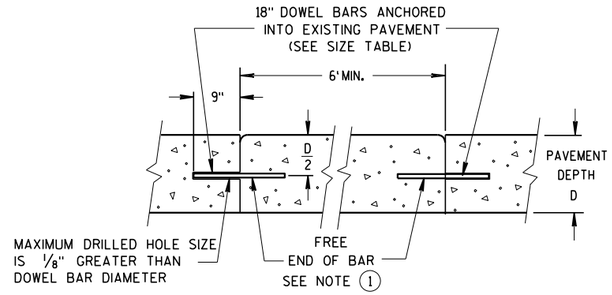
FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

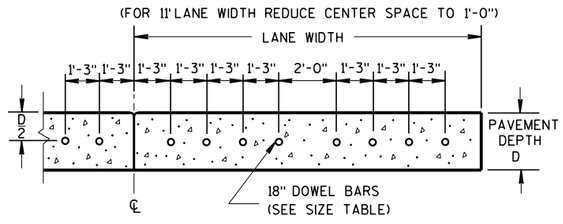


SECTION F-F

CONTRACTION JOINT



SECTION D-D

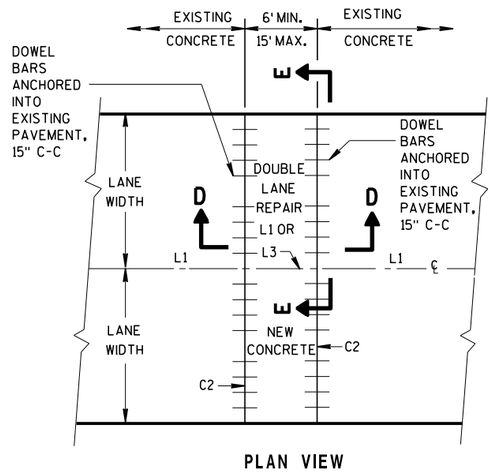


SECTION E-E

DRILLED DOWEL BAR CONSTRUCTION JOINT

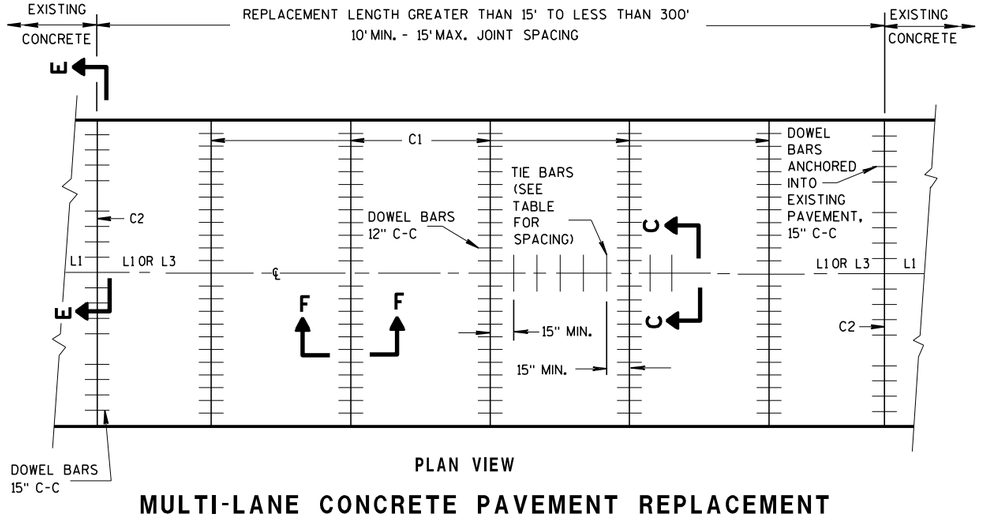
PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	DRILLED DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6", 6 1/2"	NONE	NONE	12'
7", 7 1/2"	1"	1"	14'
8", 8 1/2"	1 1/4"	1 1/4"	15'
9", 9 1/2"	1 1/4"	1 1/4"	15'
10" & ABOVE	1 1/2"	1 1/4"	15'



PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPAIR



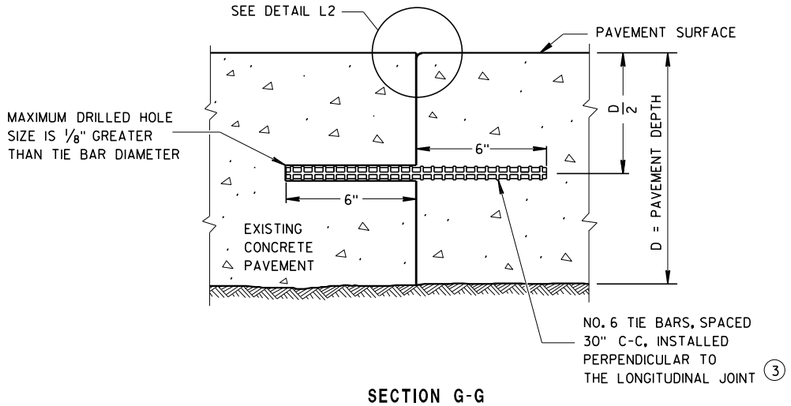
PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

6

S.D.D. 13 C 9-15b



SECTION G-G

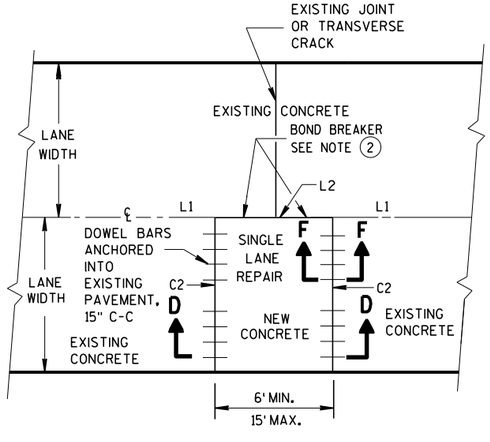
TIE BARS ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

(1) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

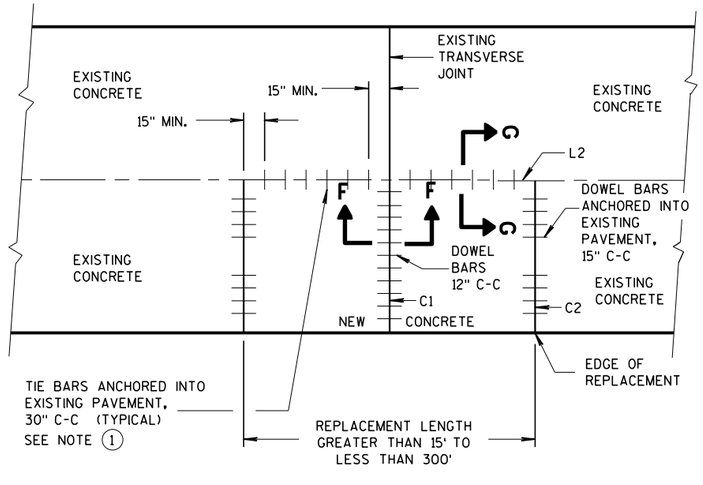
(2) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.

(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Ken... — PAVEMENT SUPE...
FHWA

6
S.D.D. 13 C 9-15c

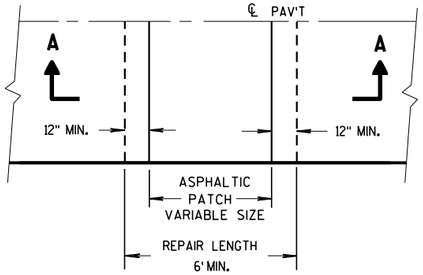
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

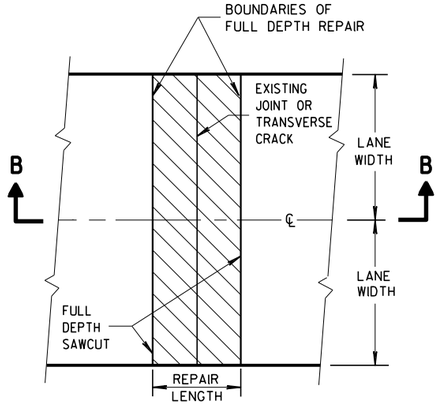
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

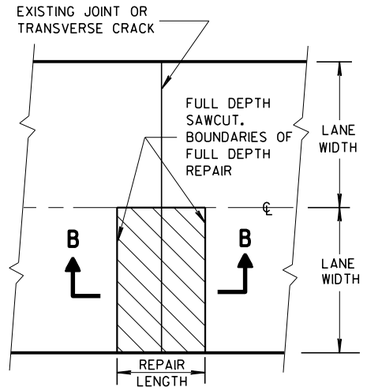
(1) DOWEL BARS MIGHT NOT EXIST.



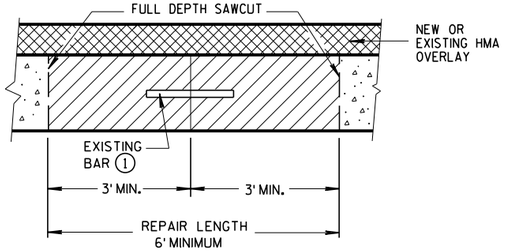
PLAN VIEW



PLAN VIEW
(DOUBLE LANE REPAIR)



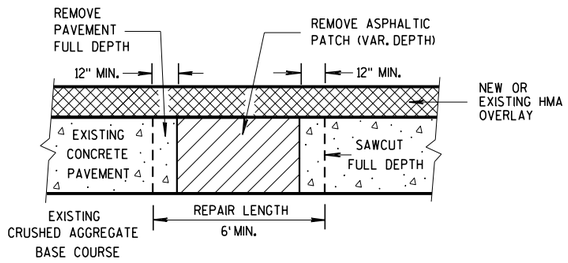
PLAN VIEW
(SINGLE LANE REPAIR)



SECTION B-B

CONCRETE REMOVAL

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

HMA PATCH REMOVAL

BASE PATCHING CONCRETE

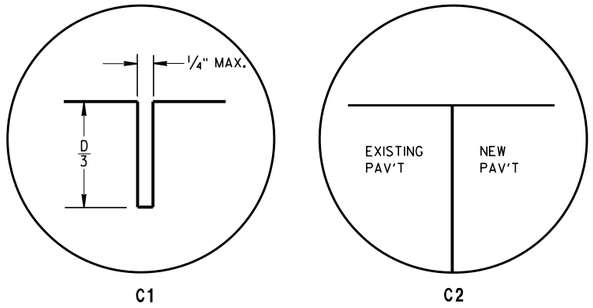
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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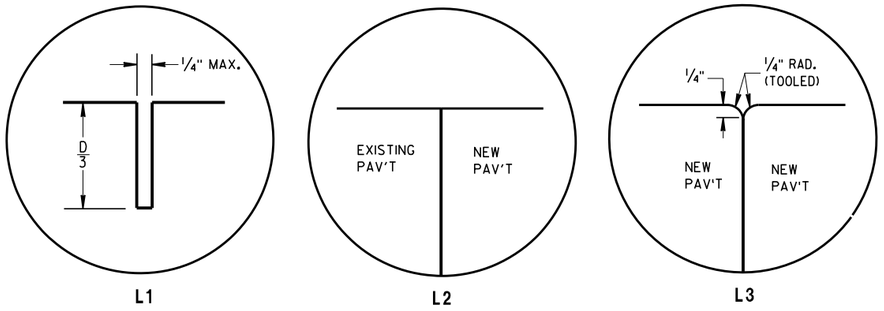
S.D.D. 13 C 14-7a

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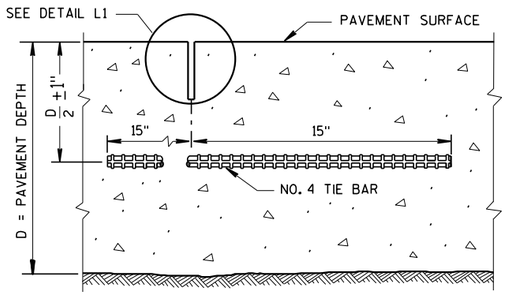
S.D.D. 13 C 14-7a



TRANSVERSE JOINTS

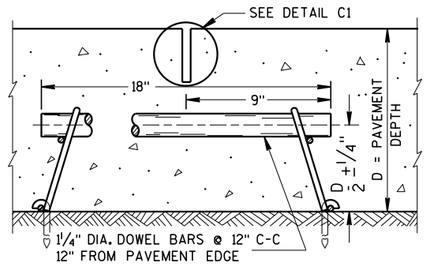


LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT



SECTION F-F

CONTRACTION JOINT

GENERAL NOTES

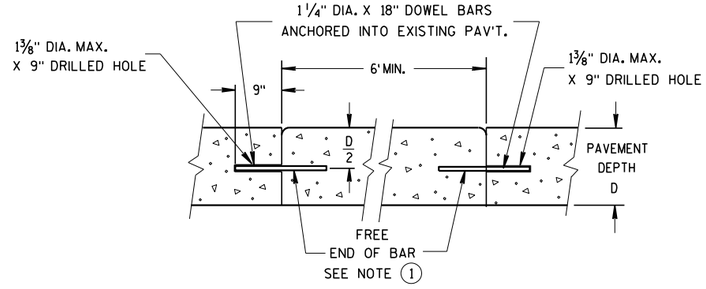
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE BASE PATCHES OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

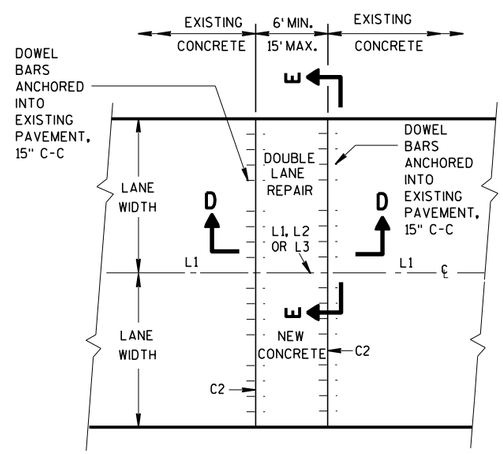
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

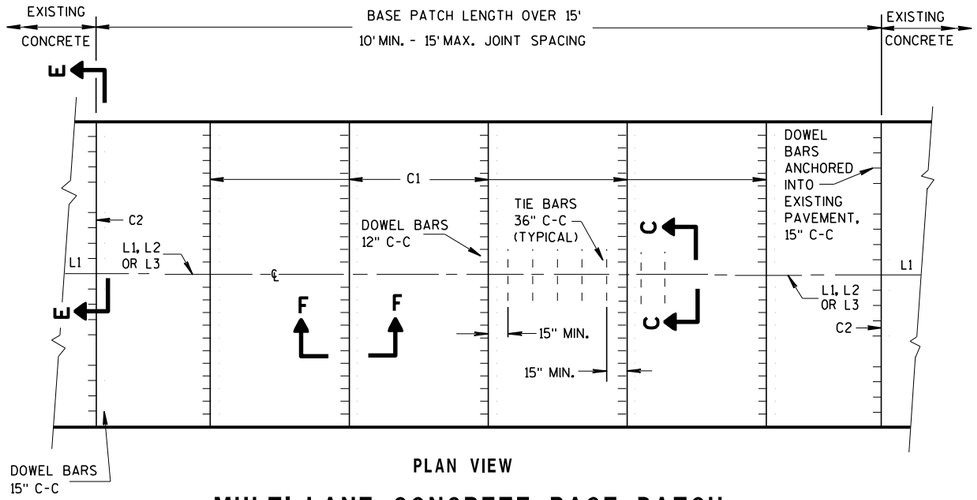


SECTION D-D



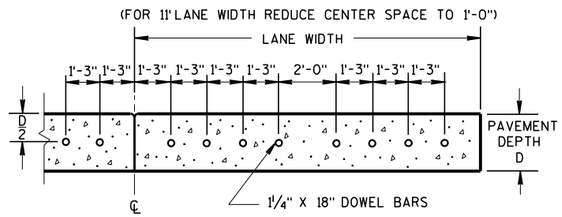
PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

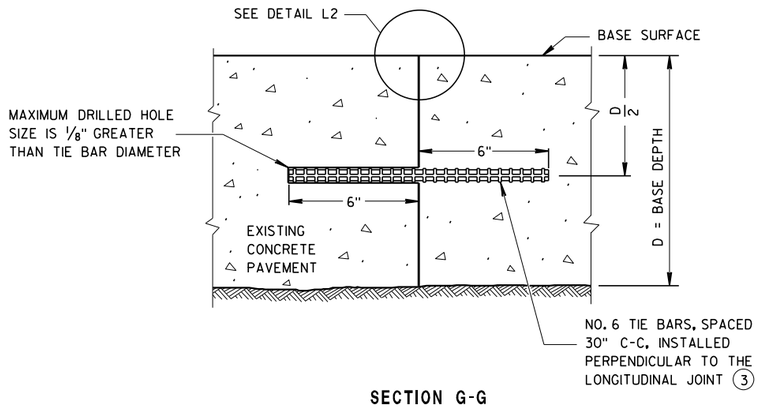


SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

BASE PATCHING CONCRETE

6
S.D.D. 13 C 14-7b



SECTION G-G

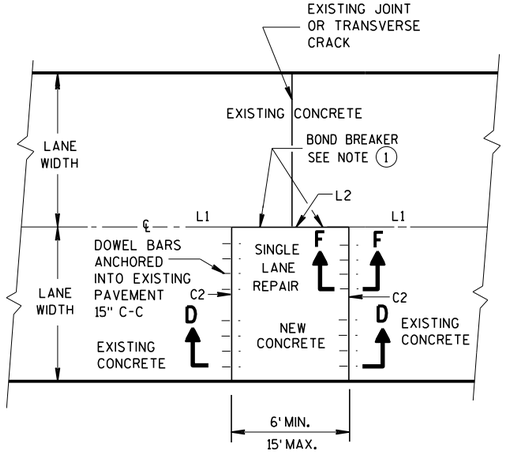
TIE BARS ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

(1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.

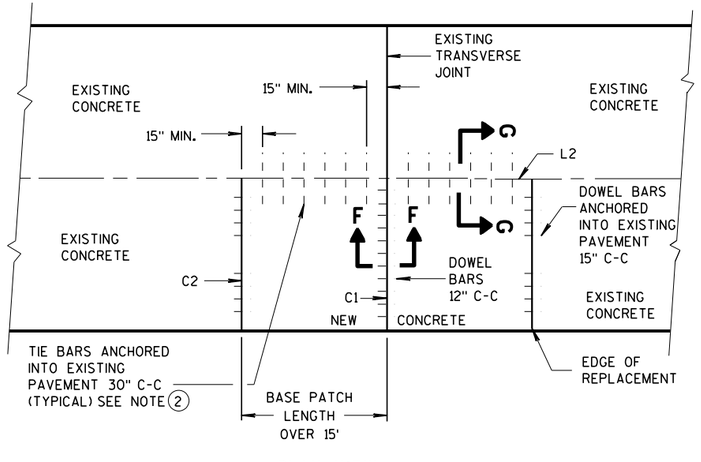
(2) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

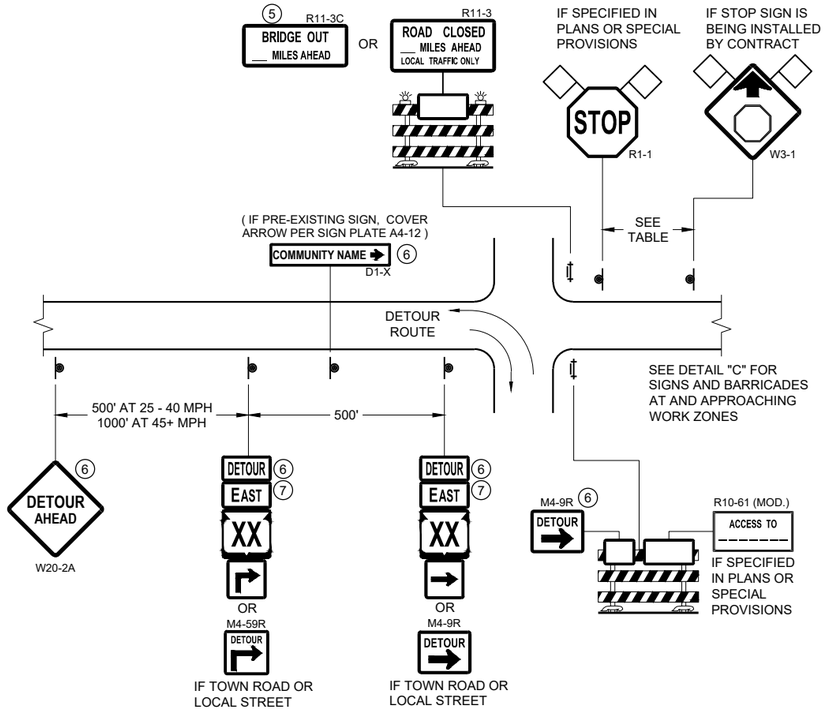
BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUPERVISOR
FHWA

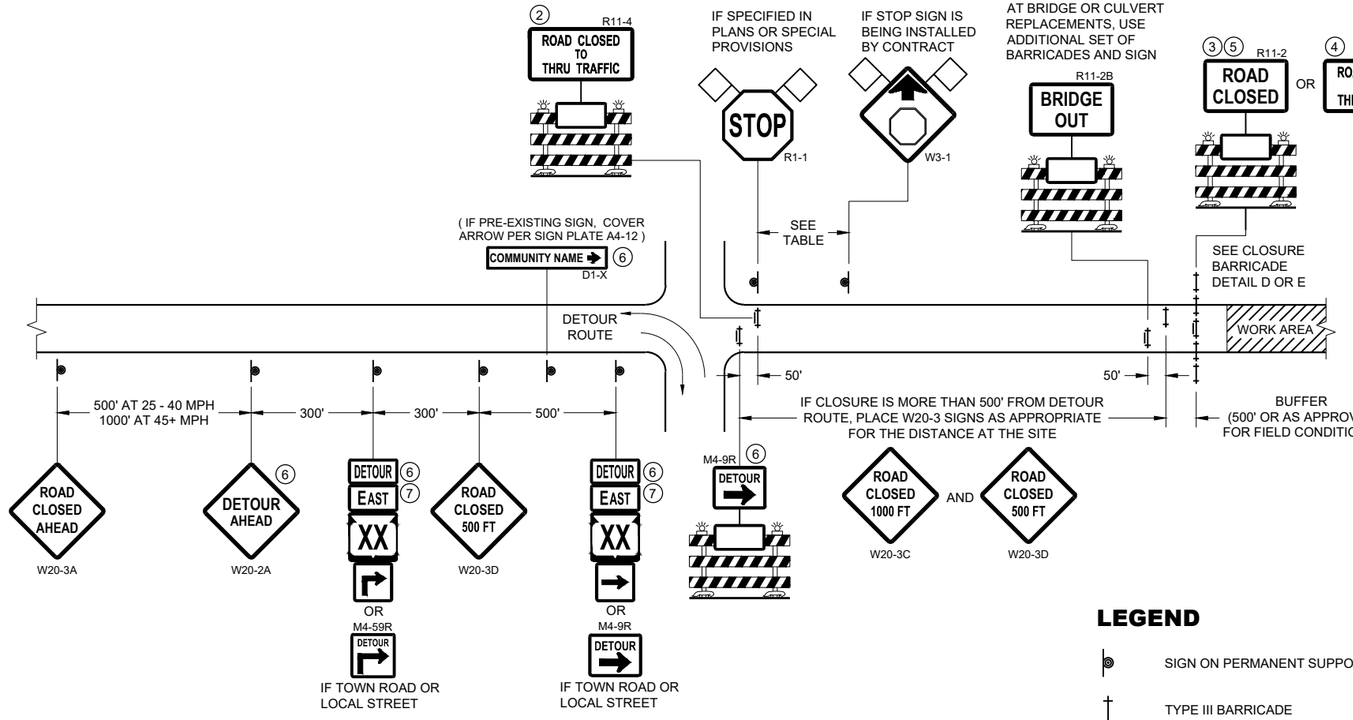
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S.D.D. 13 C 14-7c



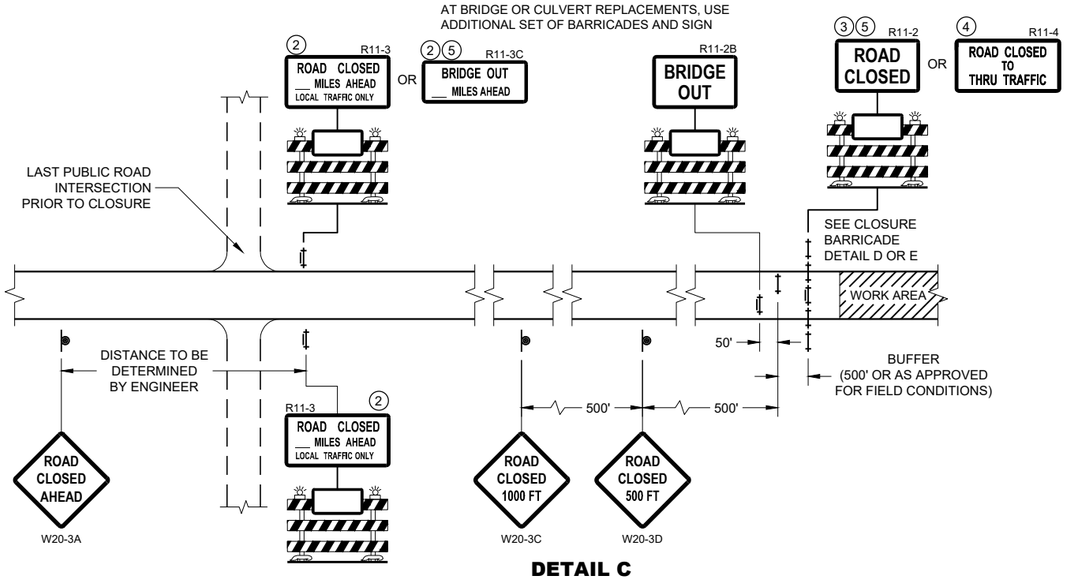
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

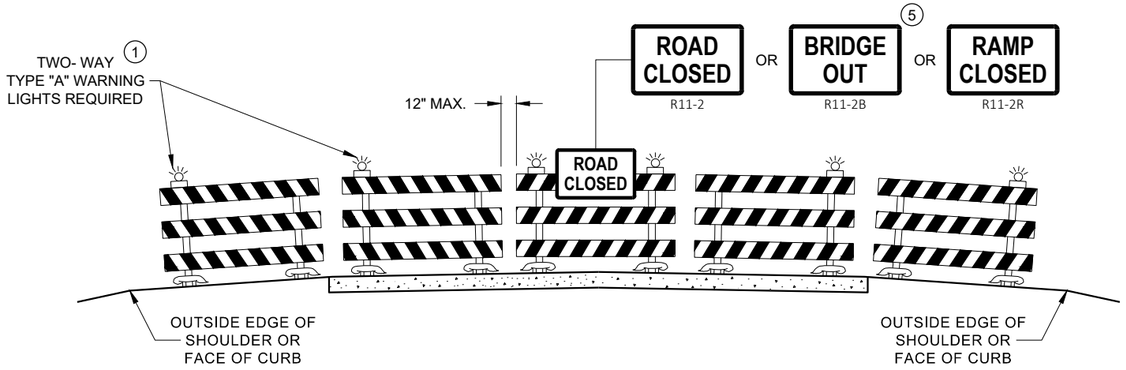
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

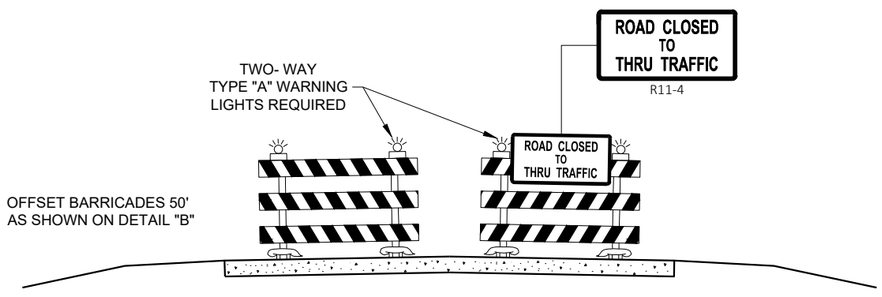
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SDD 15C02 - 08a

SDD 15C02 - 08a



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
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C02 - 08b

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SDD 15C02 - 08b

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.

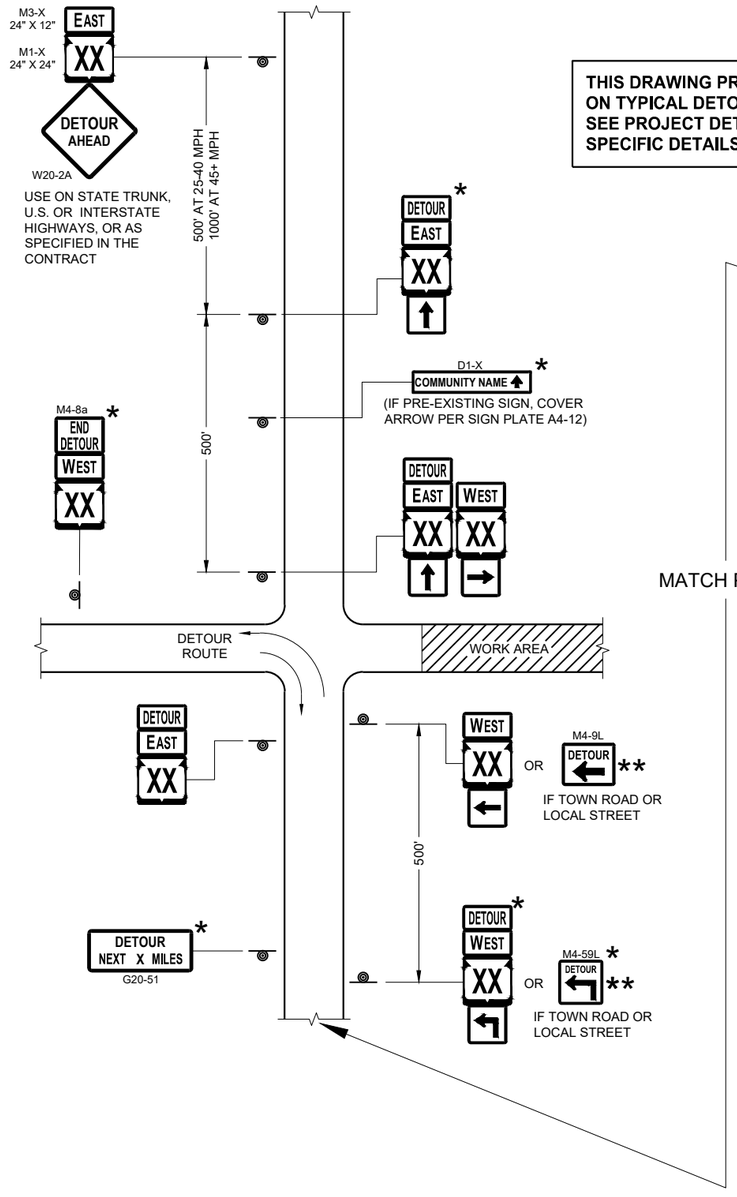
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

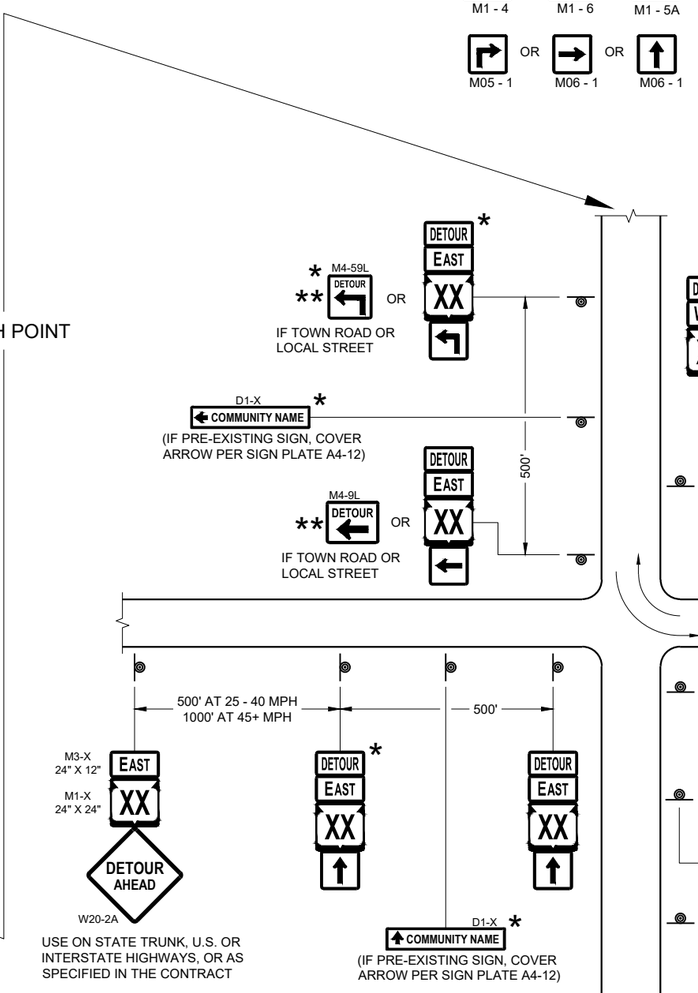
SIGN SIZES SHALL BE AS FOLLOWS:

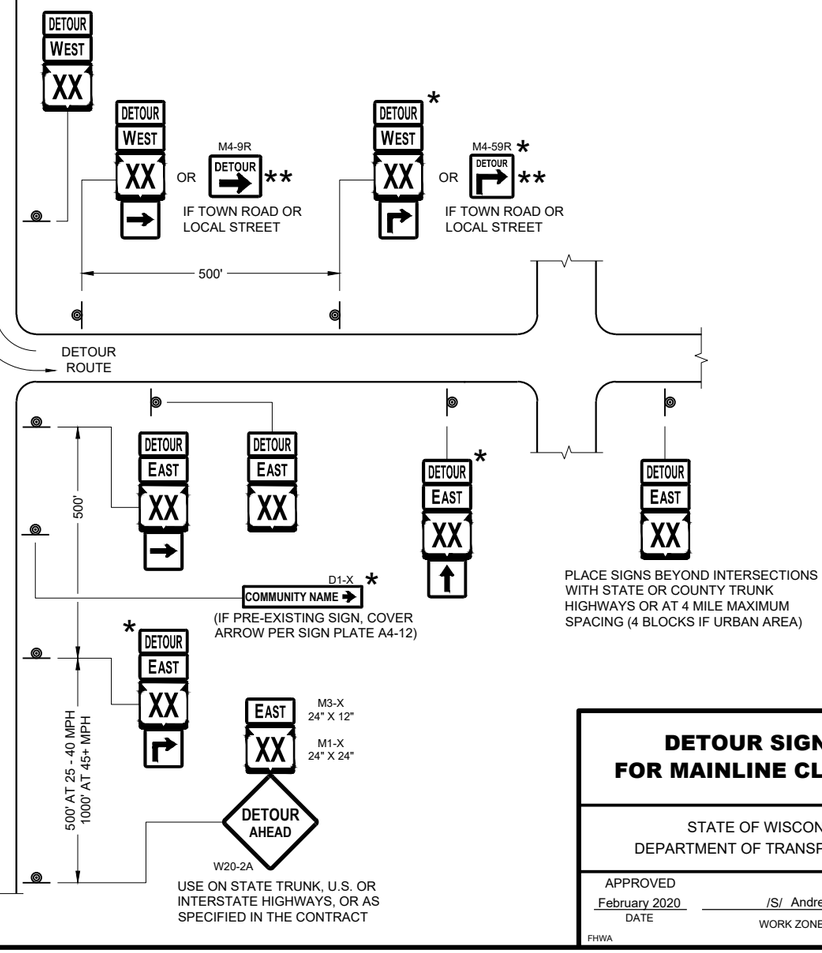
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING 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
February 2020
DATE

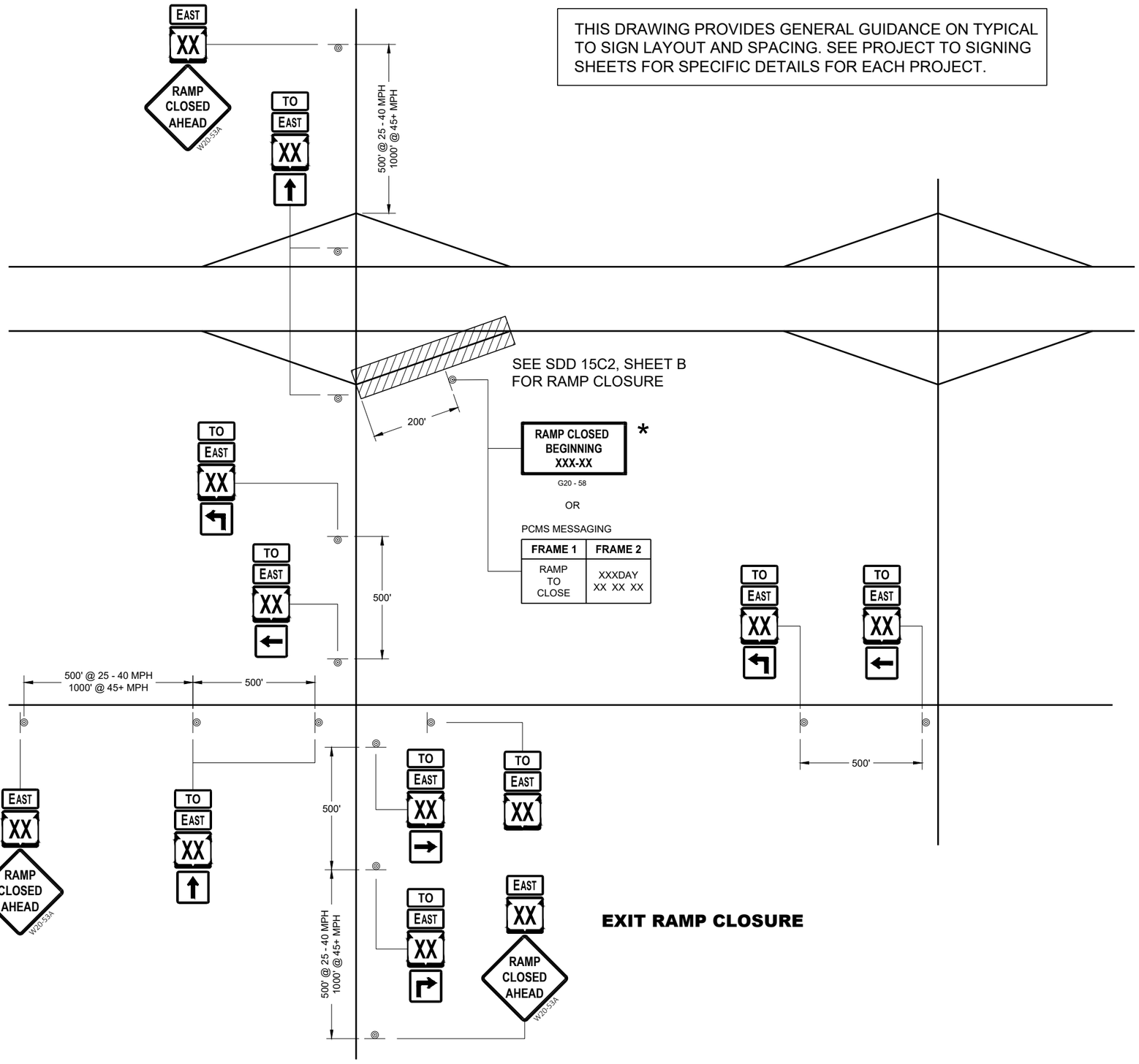
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15C02 - 08c

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SDD 15C02 - 08c



EXIT RAMP CLOSURE

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL TO SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

SIGN ON PERMANENT SUPPORT

TO EAST — MO4 - 5, M3 - X

XX M1 - 6 OR XX M1 - 4 OR INTERSTATE XX M1 - 1

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 ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO 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 SHALL 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 FOLLOW:
- M3 - X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 1, M1 - 4, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).
- W20 - 53A SHALL BE 48" X 48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

ON RAMP LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

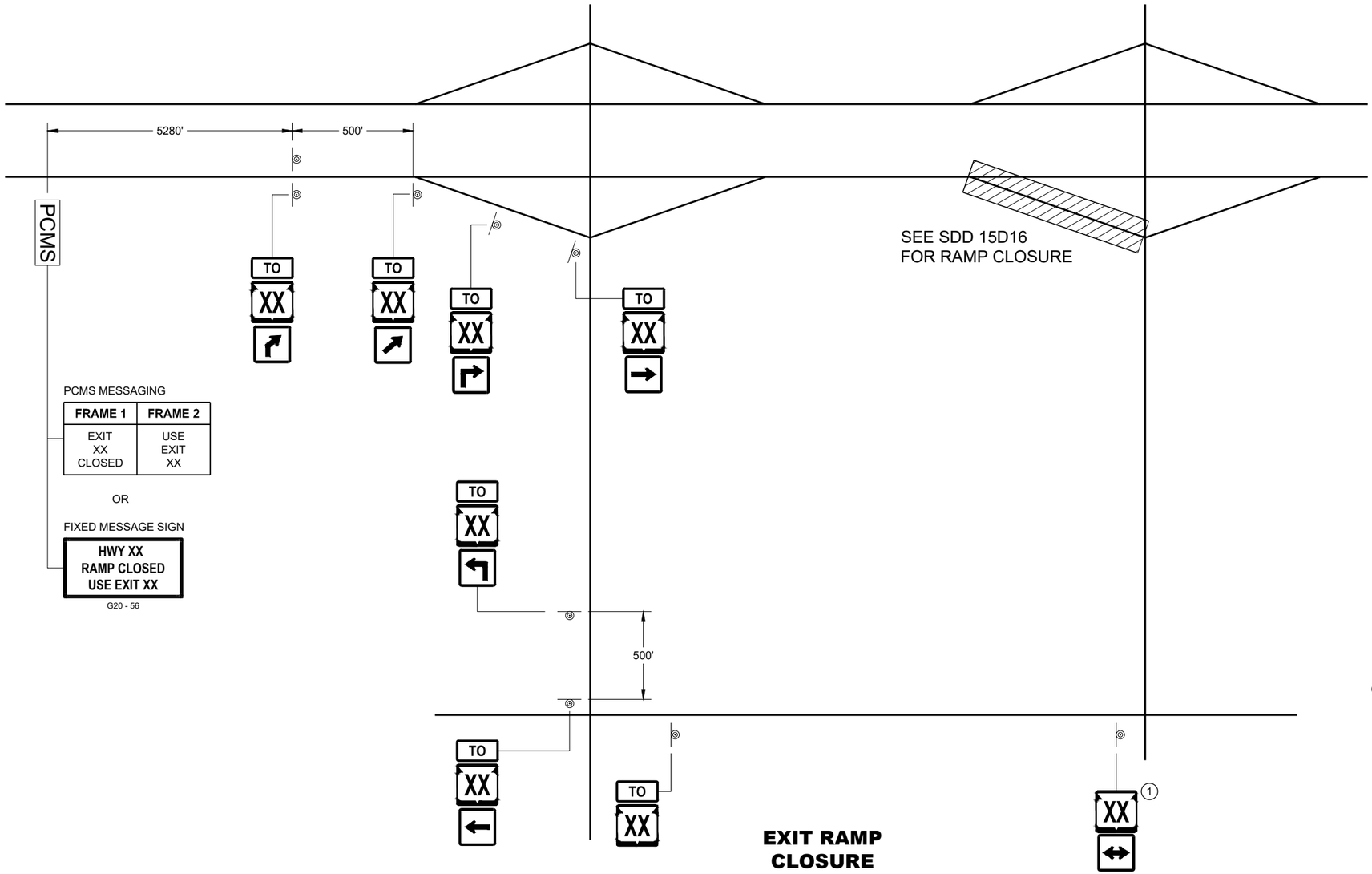
APPROVED
February 2020 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6

SDD 15C02 - 08d

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL "TO" MO-4 SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.



PCMS MESSAGING

FRAME 1	FRAME 2
EXIT XX CLOSED	USE EXIT XX

OR

FIXED MESSAGE SIGN

HWY XX
RAMP CLOSED
USE EXIT XX

G20 - 56

EXIT RAMP CLOSURE

LEGEND

SIGN ON PERMANENT SUPPORT

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

TO MO4 - 5

XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A

M05 - 1 OR M05 - 2 OR M06 - 1 OR M06 - 2 OR M06 - 4

GENERAL NOTES

SEE SDD 15D16 "TRAFFIC CONTROL, EXIT RAMP CLOSURE" DETAIL FOR TRAFFIC CONTROL AT EXIT RAMP CLOSURE.

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

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE "TO" MO-4 ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND "TO" MO-4 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 SHALL 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 FOLLOW:
- MO4 - 5 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, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).

(1) ONLY ADD IF THERE ARE NO EXISTING ROUTE MARKERS FOR THE INTERSECTING ROADWAY.

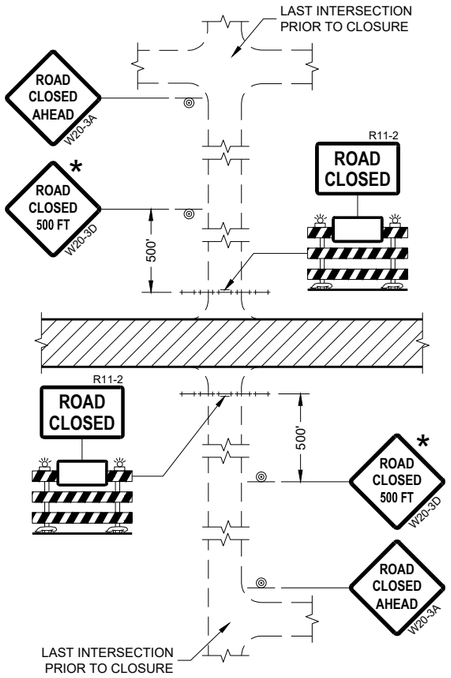
OFF RAMP LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

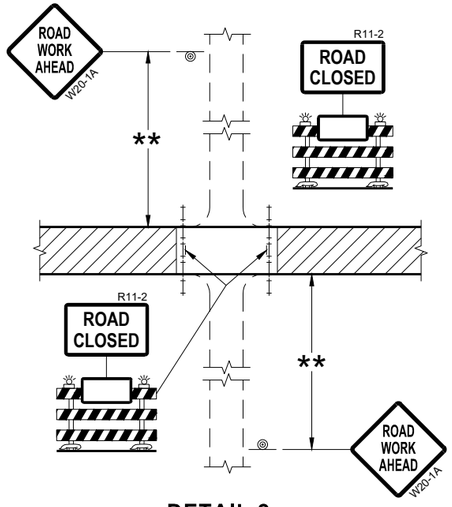
APPROVED
February 2020 DATE
/S/ Andrew Heidtke WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 08e



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.

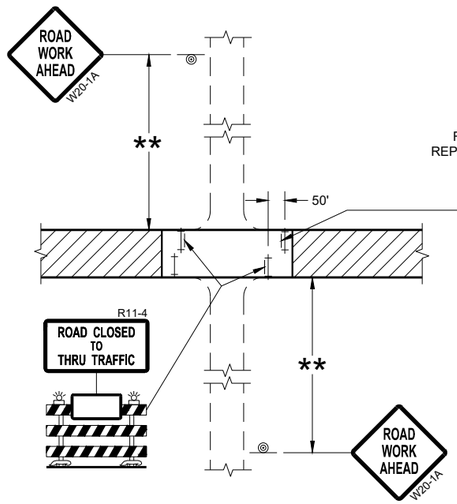
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

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.

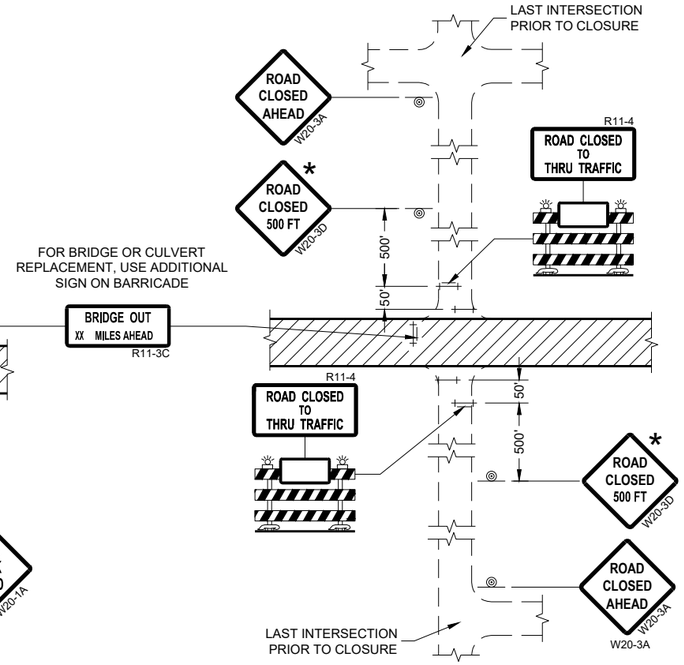
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* 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 ENGINEER

FHWA

6

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.

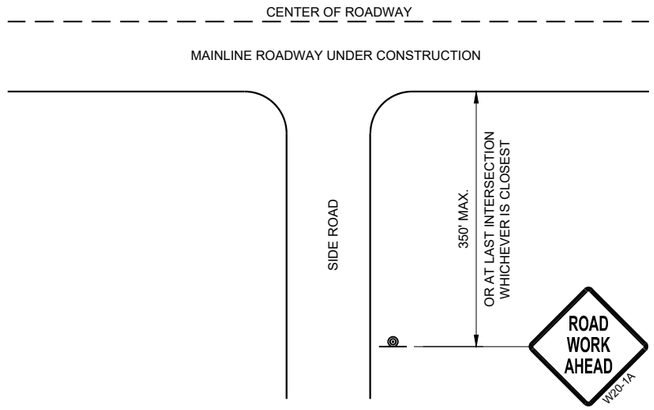
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

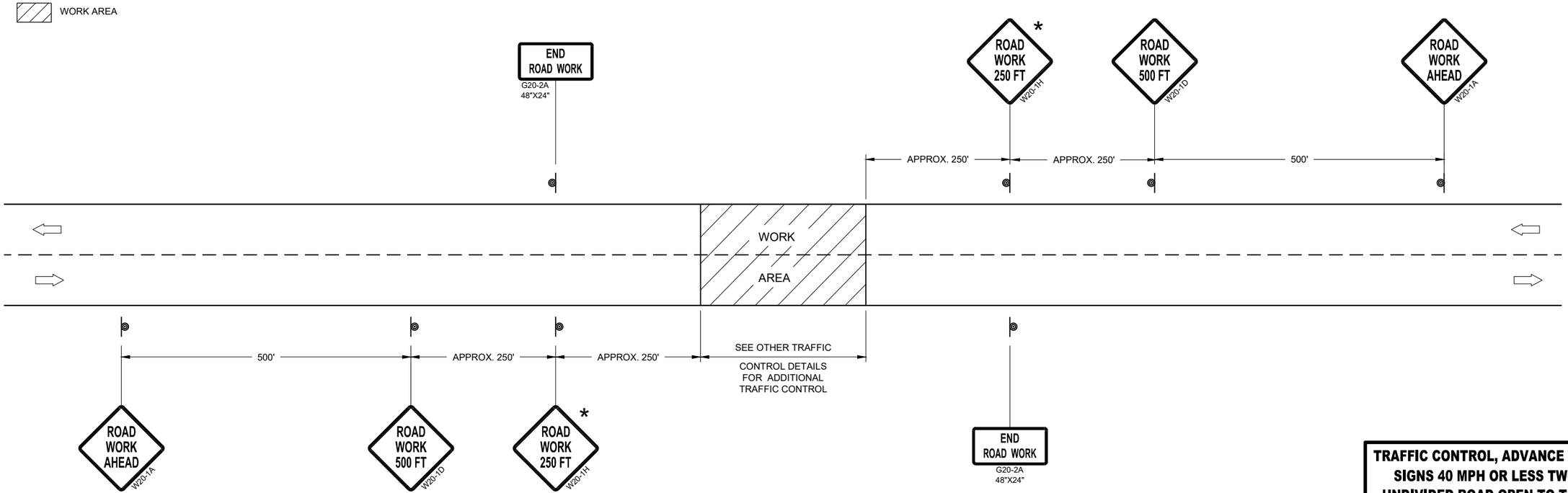
* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



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 TRAFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

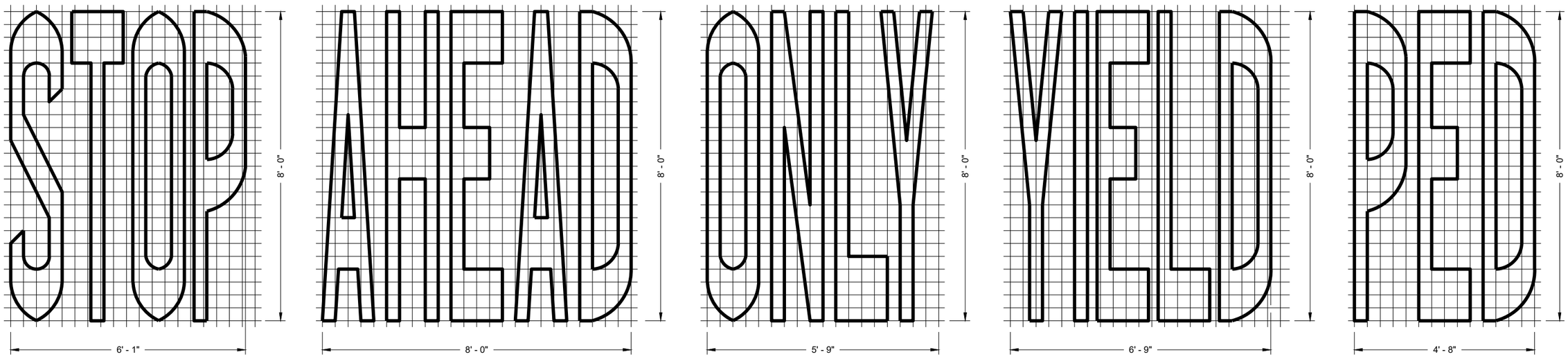
APPROVED
July 2018
DATE

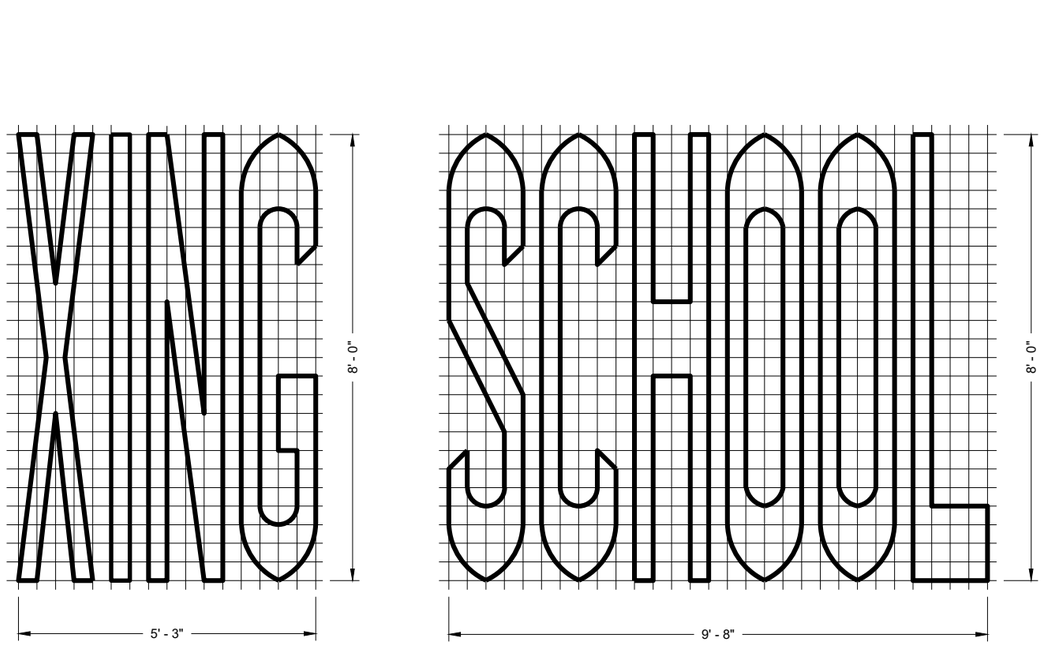
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

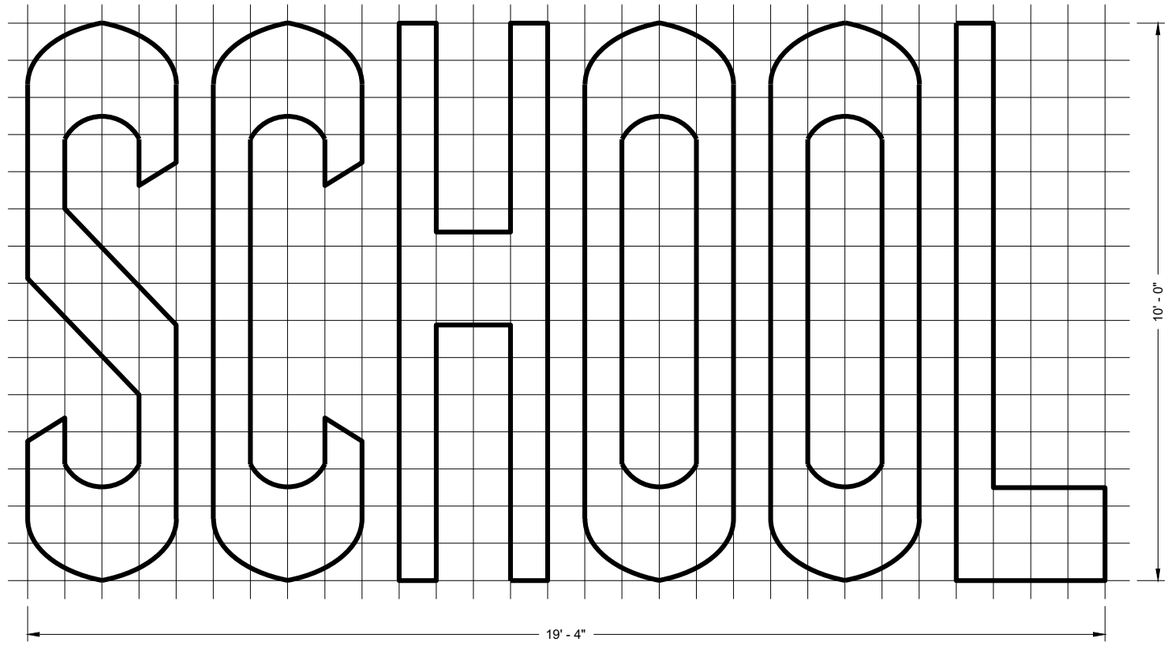
6

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

300

FHWA

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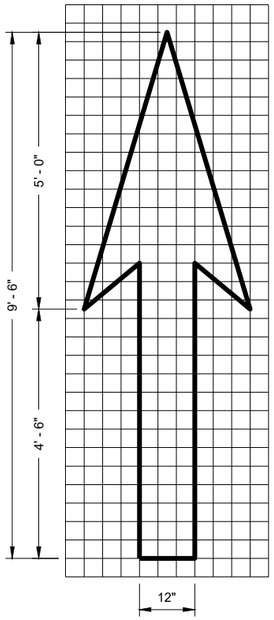
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SDD 15C07 - 15b

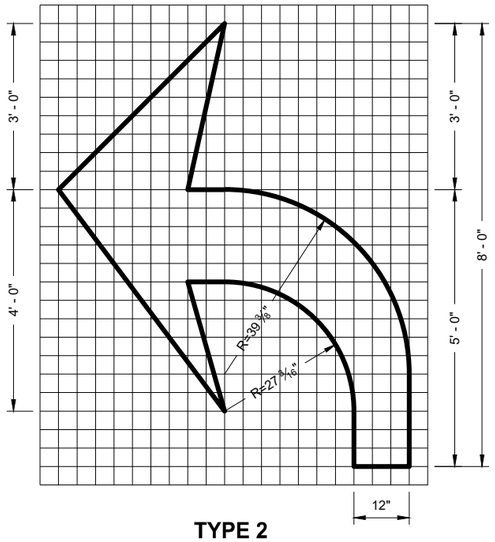
SDD 15C07 - 15b

GENERAL NOTES

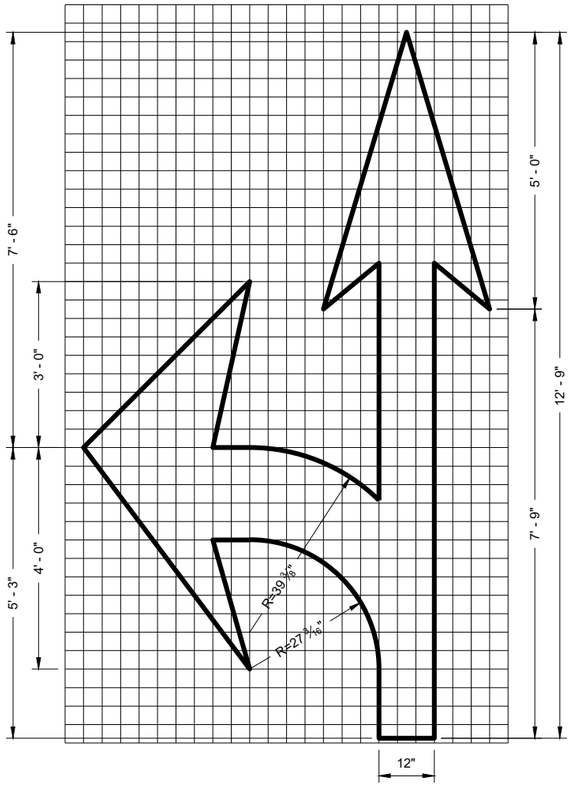
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



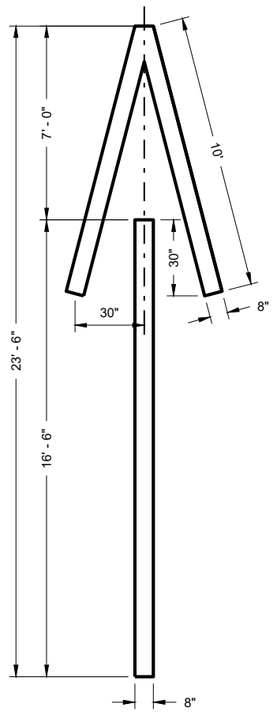
TYPE 1



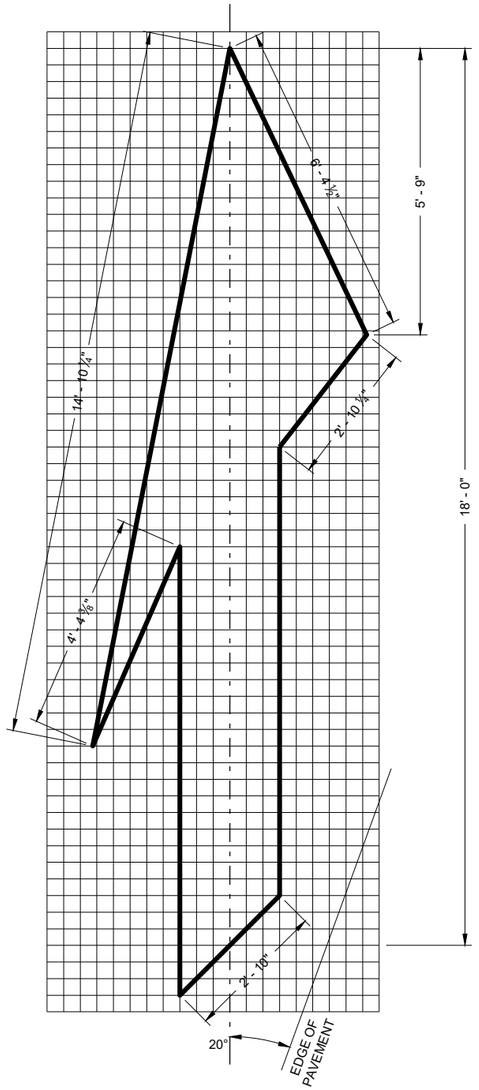
TYPE 2



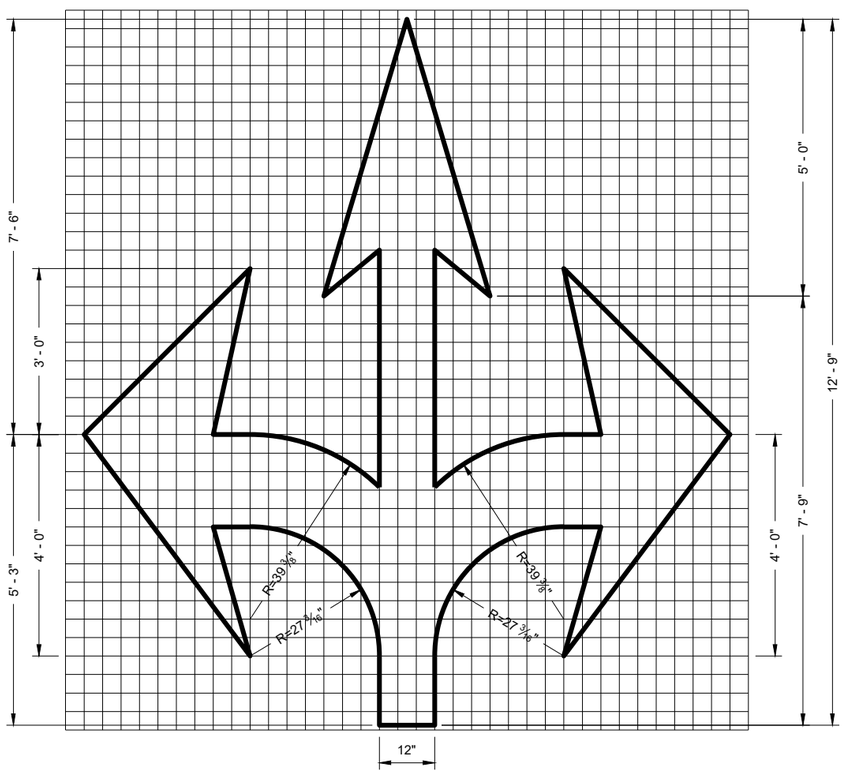
TYPE 3



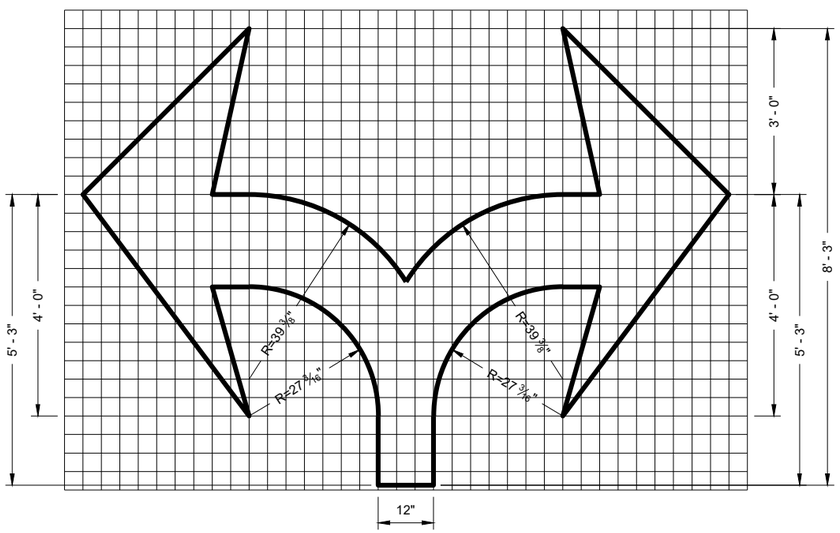
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

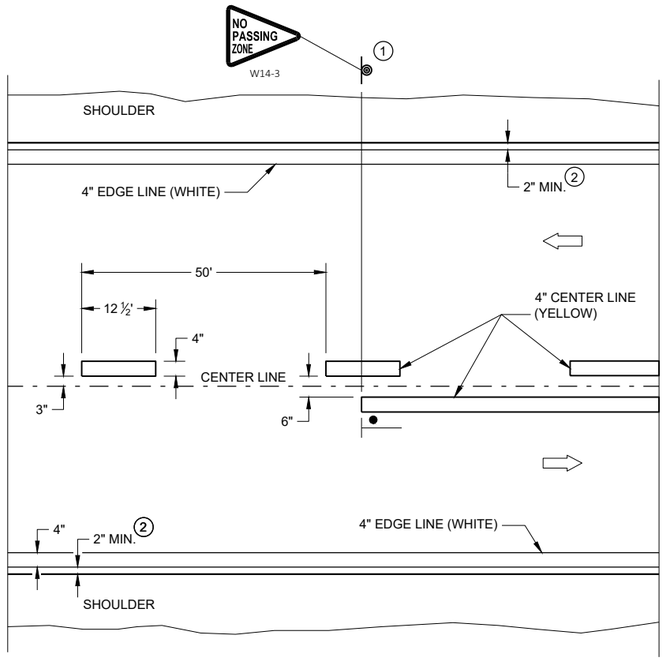
FHWA

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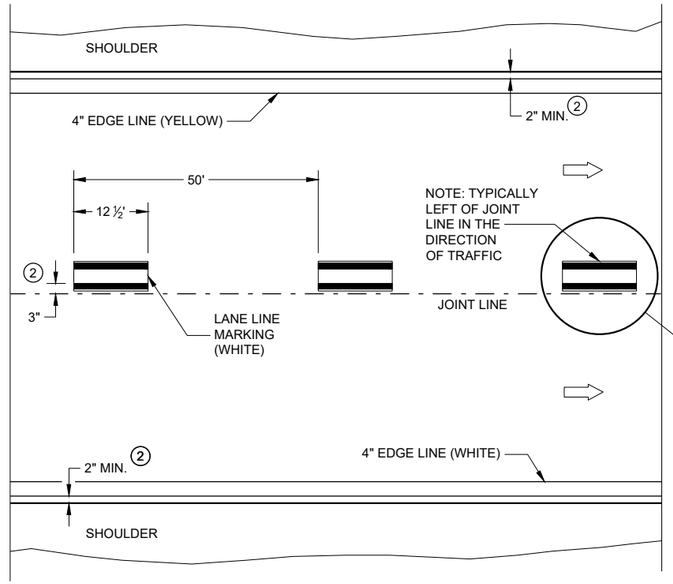
SDD 15C07 - 15c

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SDD 15C07 - 15c

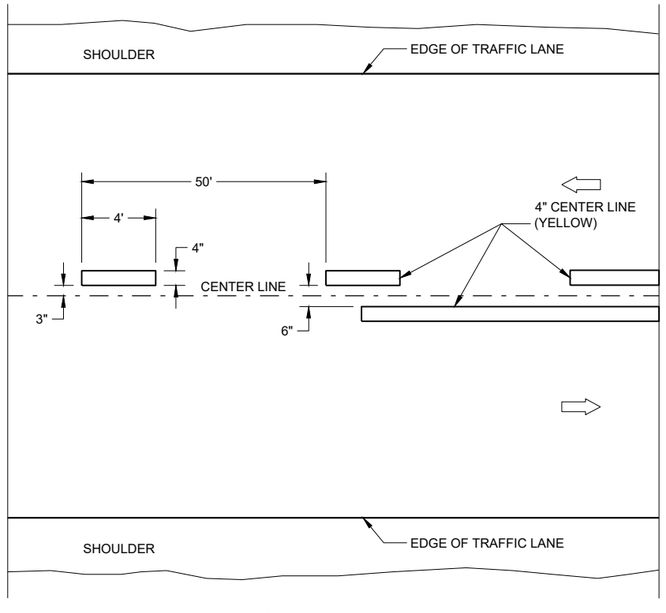


TWO WAY TRAFFIC

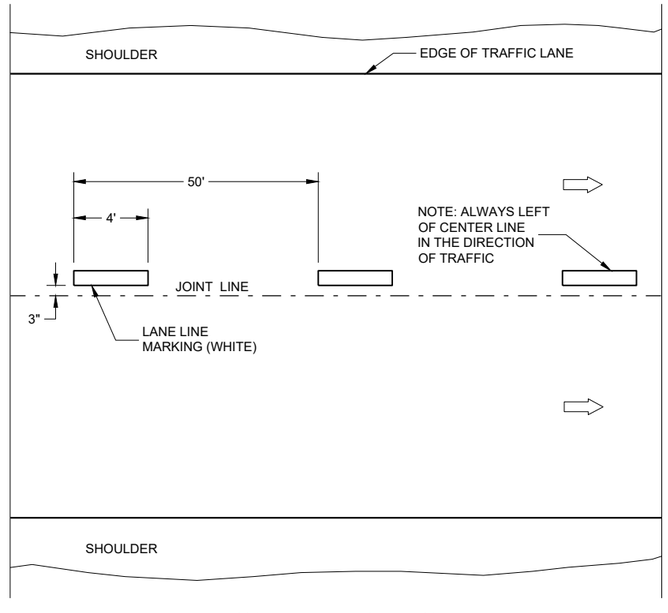


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

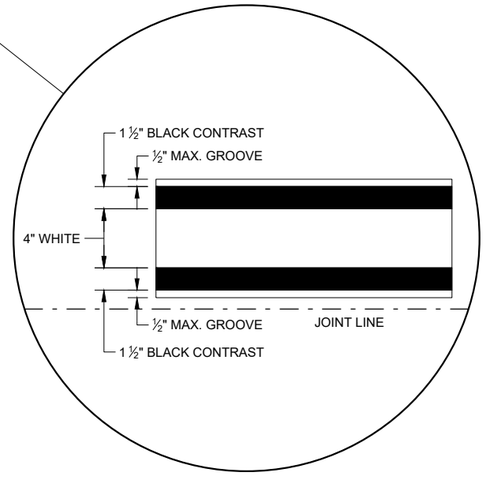
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Matthew Rauch
STATEWIDE SIGNING AND M
ENGINEER

FHWA

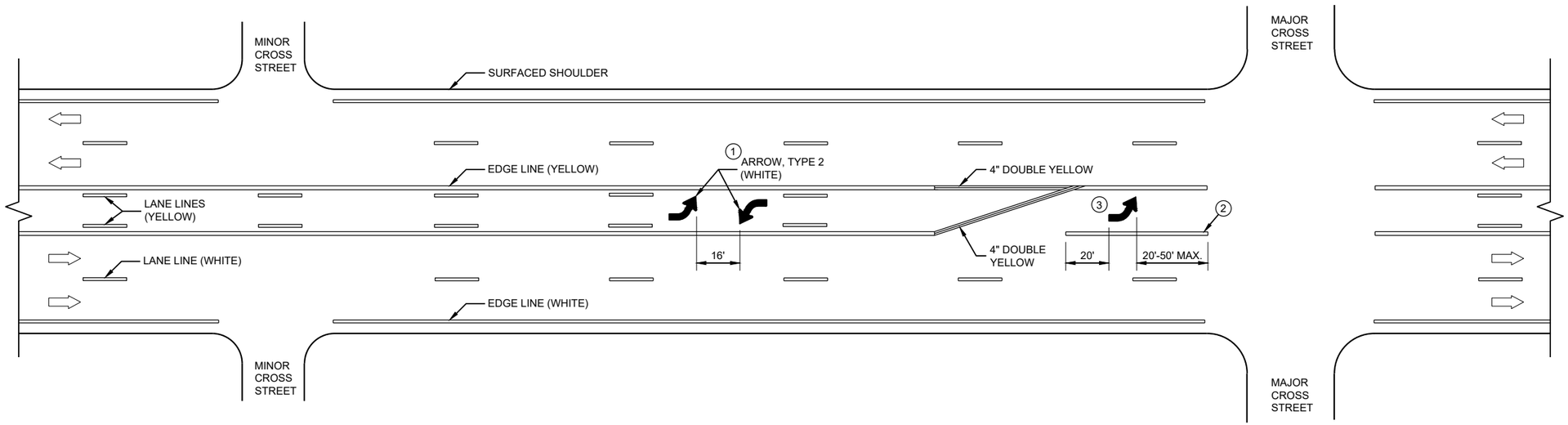
SDD 15C08 - 20a

SDD 15C08 - 20a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

6

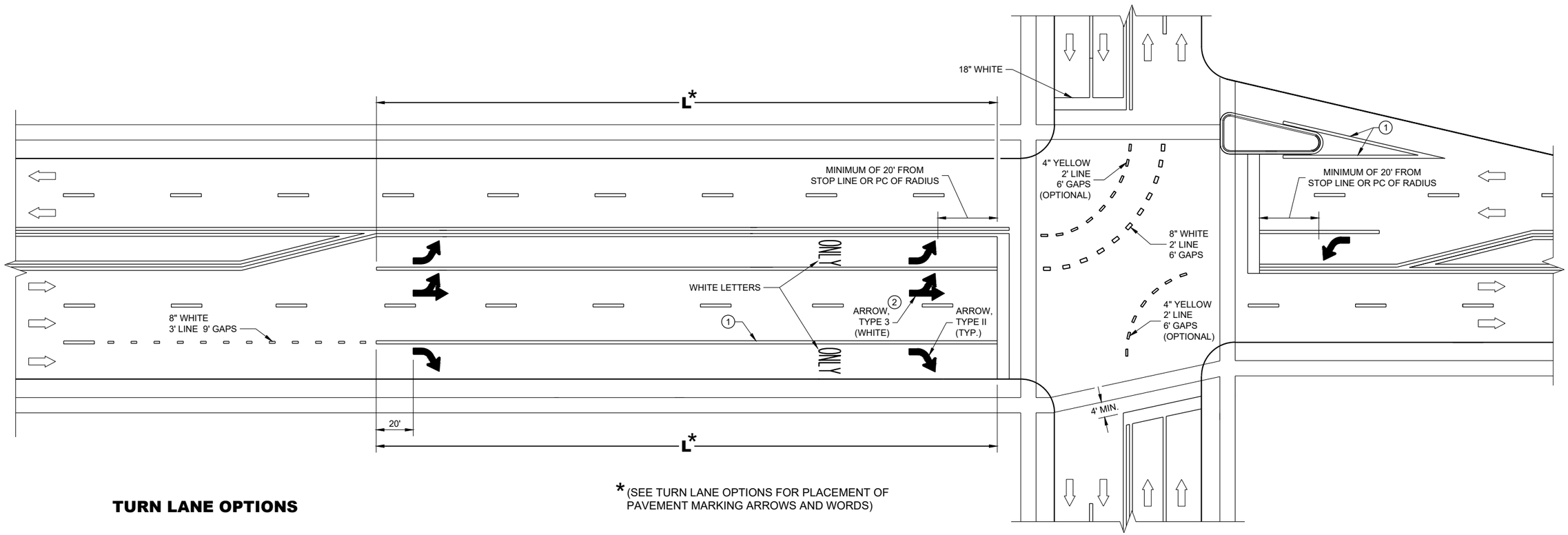
SDD 15C08 - 20b

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

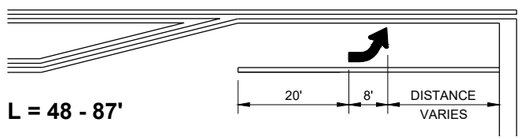
SDD 15C08 - 20b



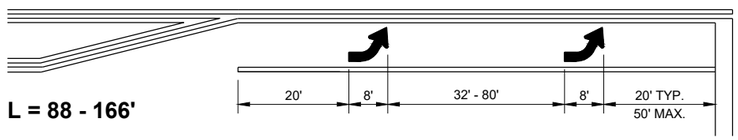
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

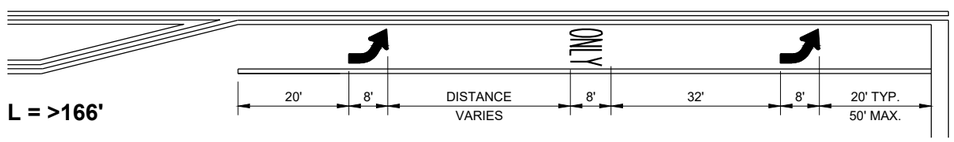
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. 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

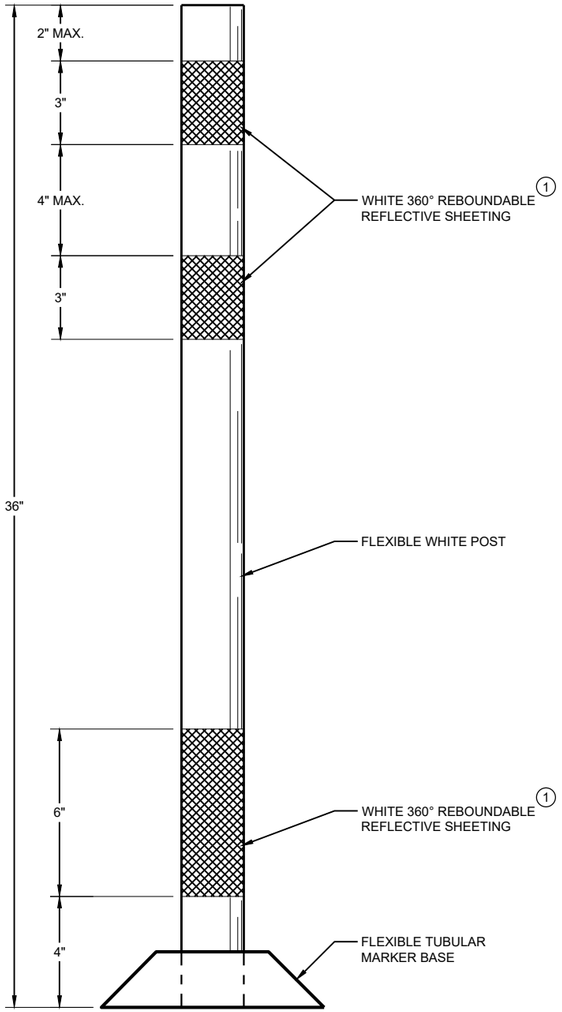
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

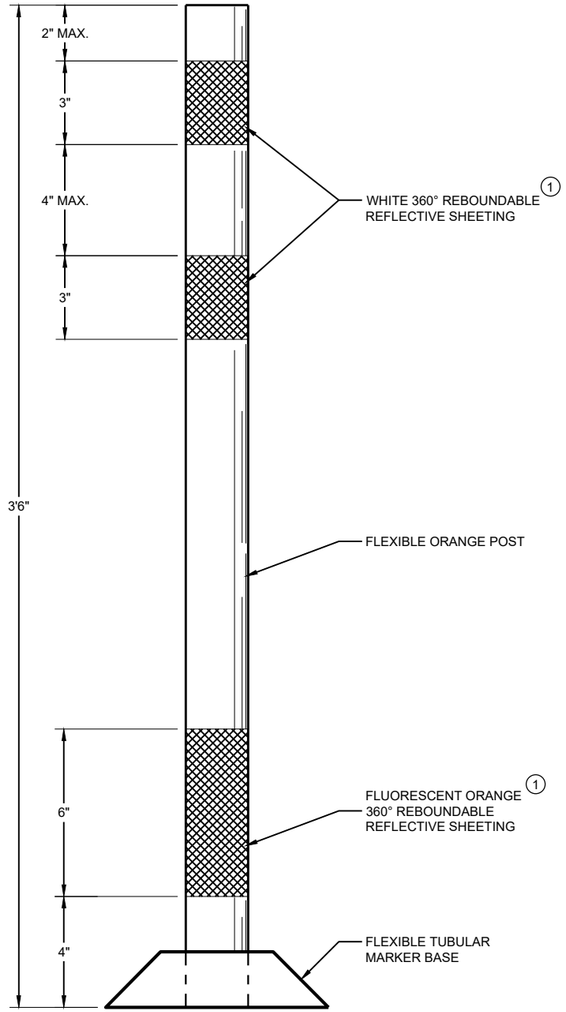
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C08 - 20c



FLEXIBLE TUBULAR MARKER POST PERMANENT CROSSOVER



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 - 07a

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

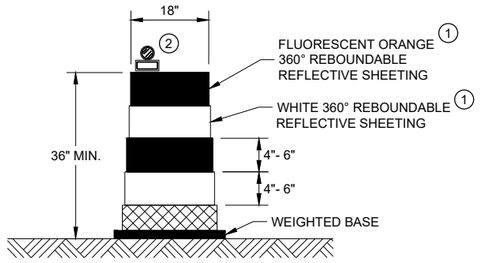
FHWA

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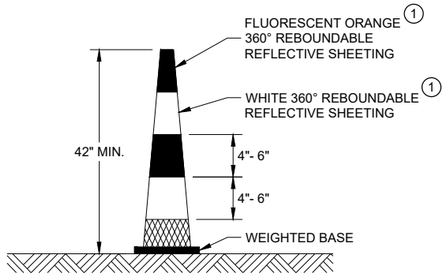
SDD 15C11 - 07a

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.

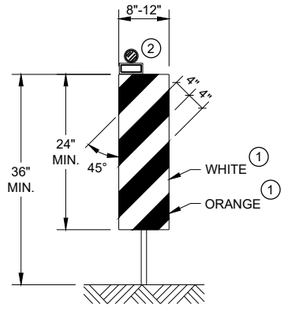


DRUM



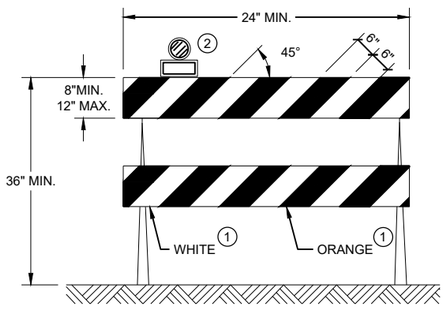
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



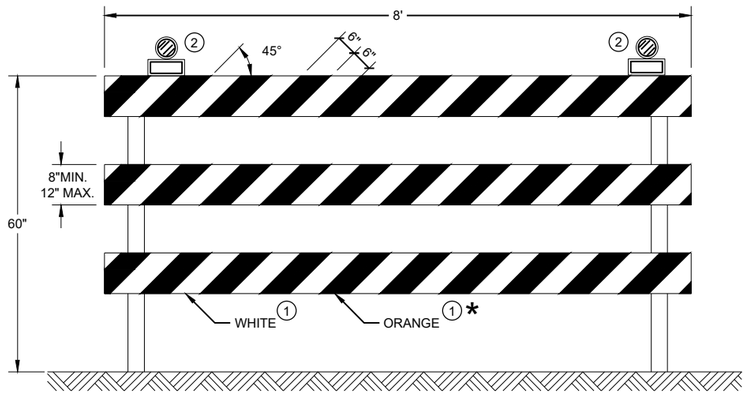
VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

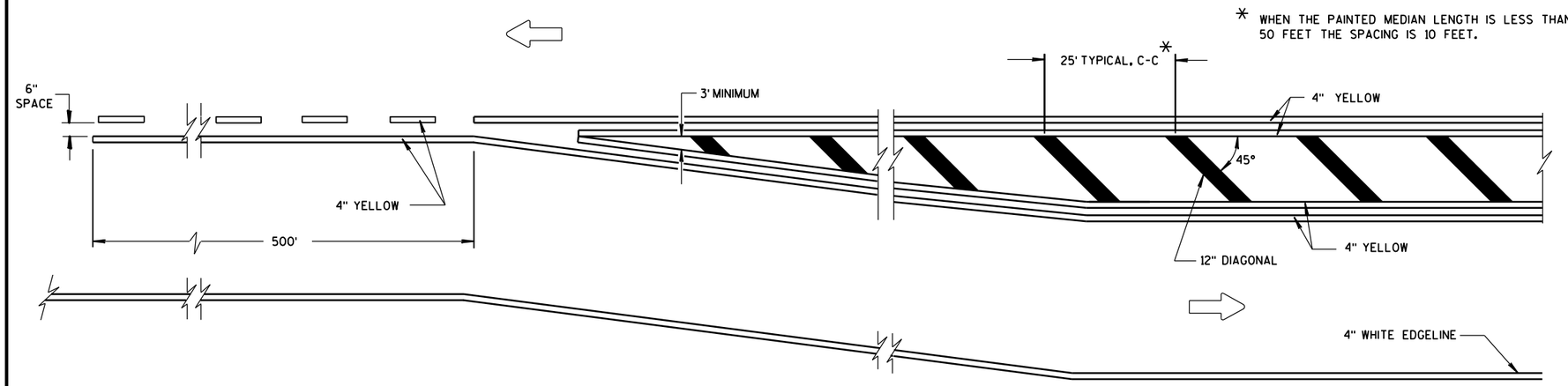
FHWA

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SDD 15C11 - 07b

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SDD 15C11 - 07b

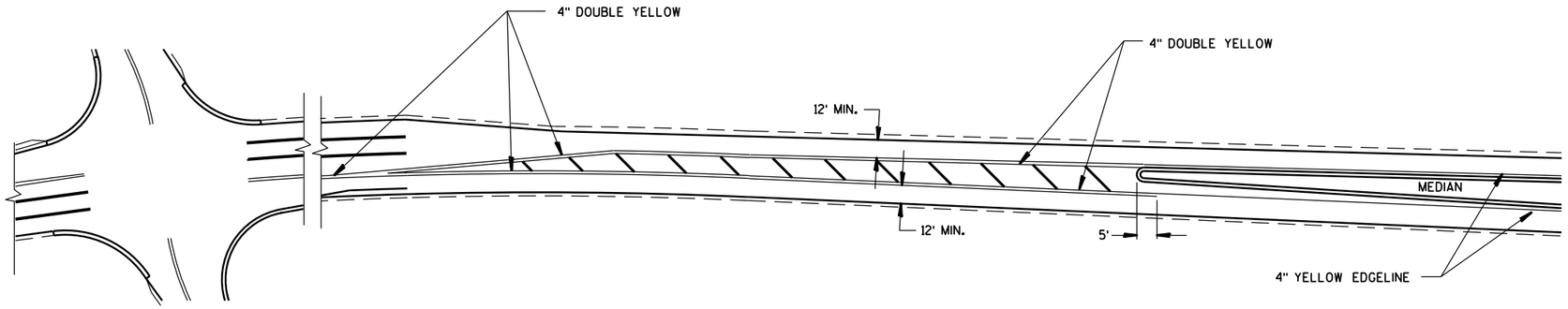


MEDIAN ISLAND DETAIL

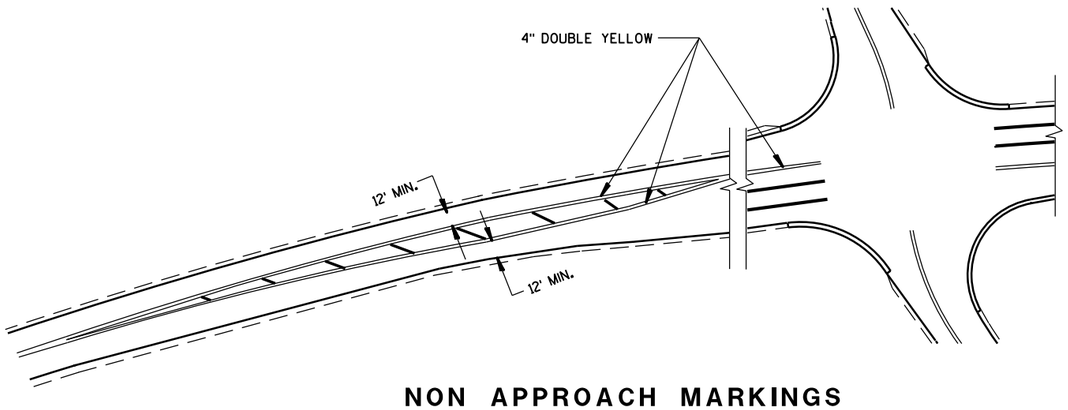
GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

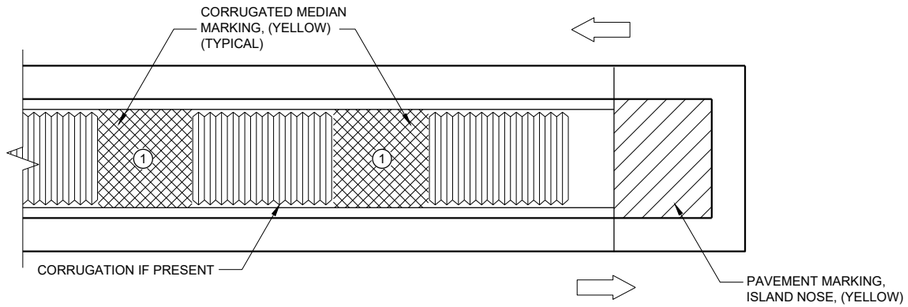
MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE FHWA	/S/ Matthew Rauch STATE SIGNING AND MARK ... ER

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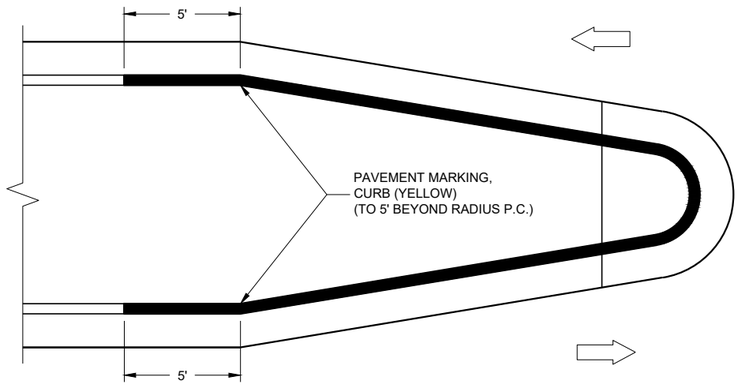
S.D.D. 15 C 18-4

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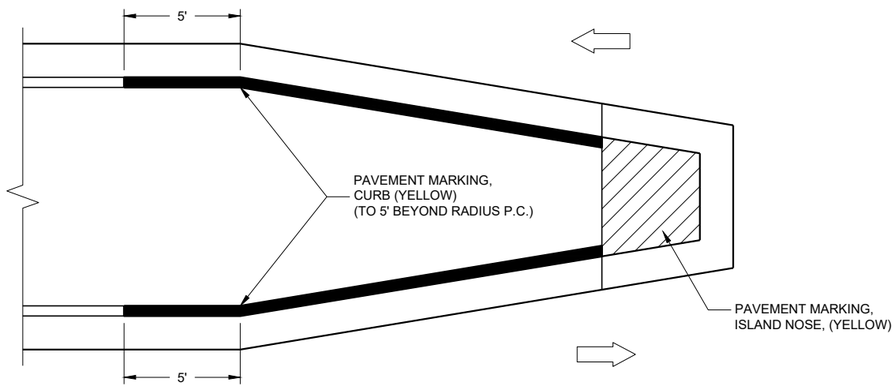
S.D.D. 15 C 18-4



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE

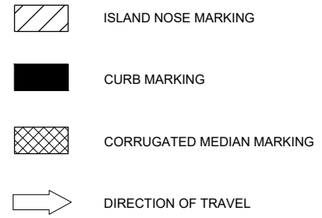


MEDIAN ISLAND WITH SLOPED NOSE

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.



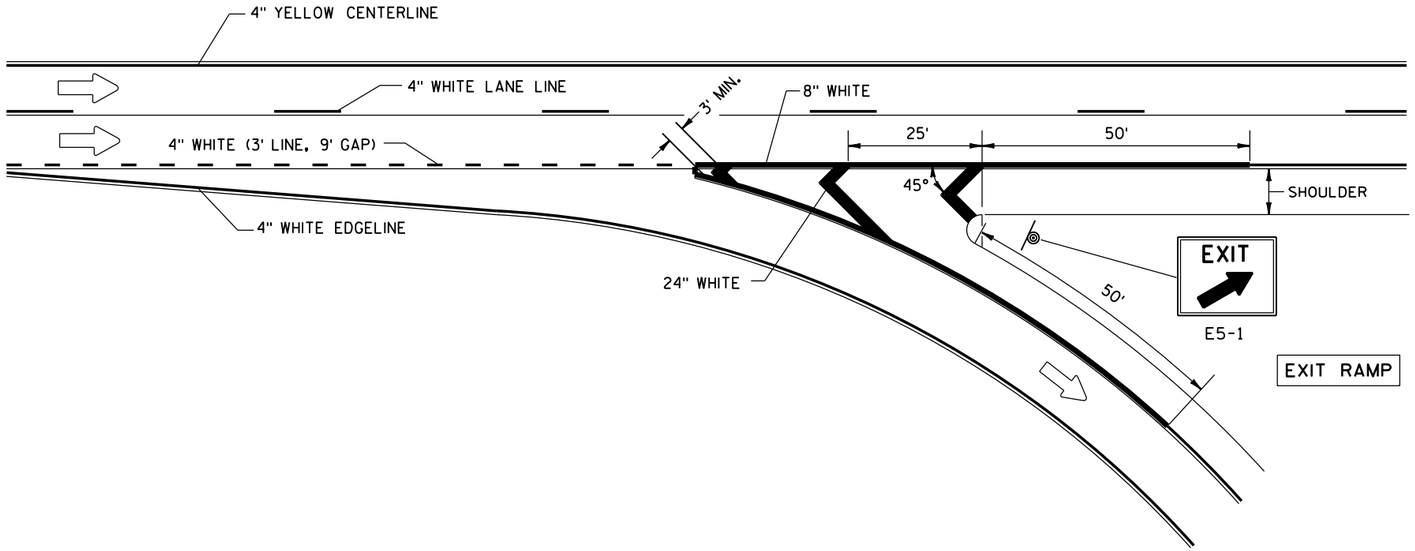
PAVEMENT MARKINGS
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR ENGINEER
FHWA

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SDD 15C27 - 03b
SDD15C27 - 03b



PAVEMENT MARKING FOR EXIT RAMP

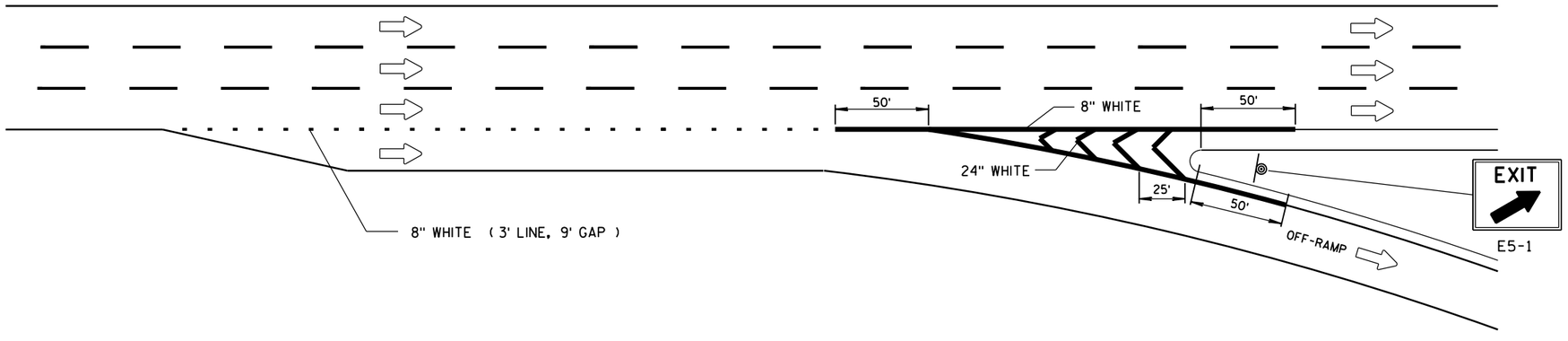
GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

DIRECTION OF TRAVEL

SIGN ON PERMANENT SUPPORT



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT-RAMP

6

S.D.D. 15 C 31-3a

PAVEMENT MARKING (RAMPS AND GORES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

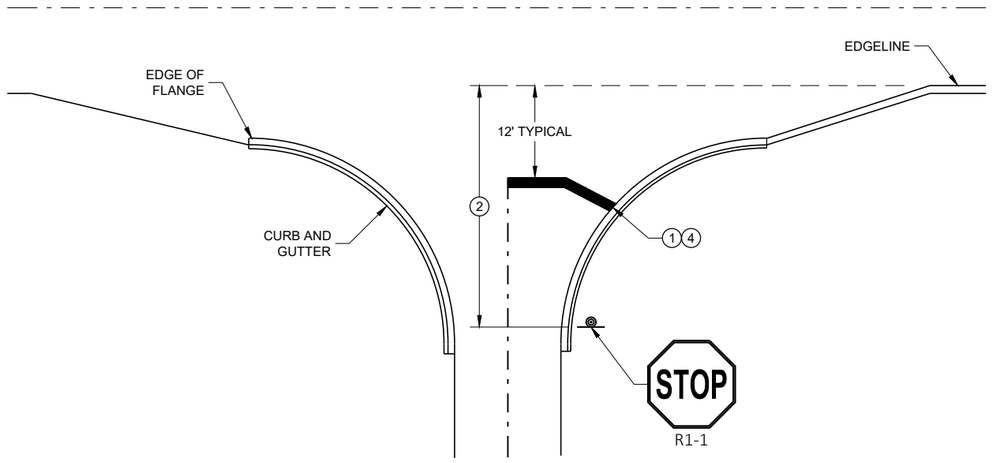
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S.D.D. 15 C 31-3a

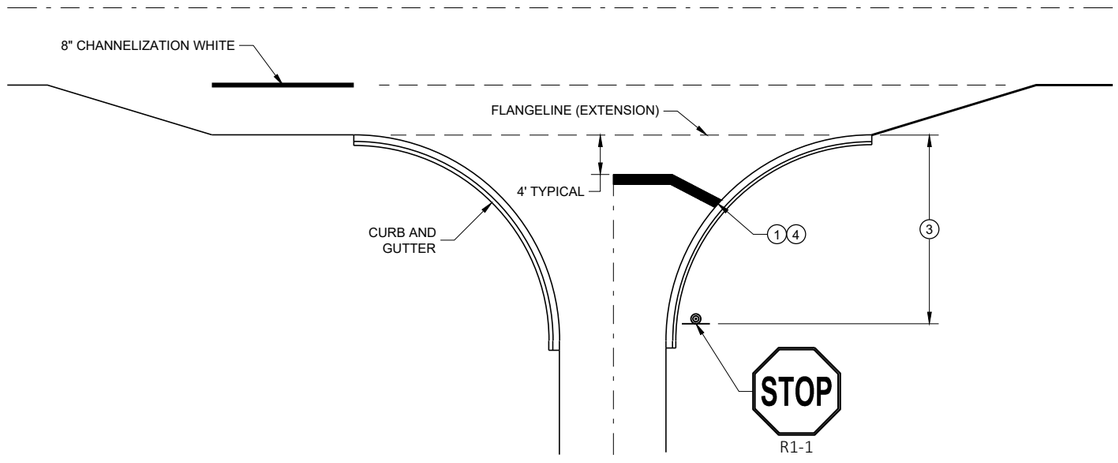
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

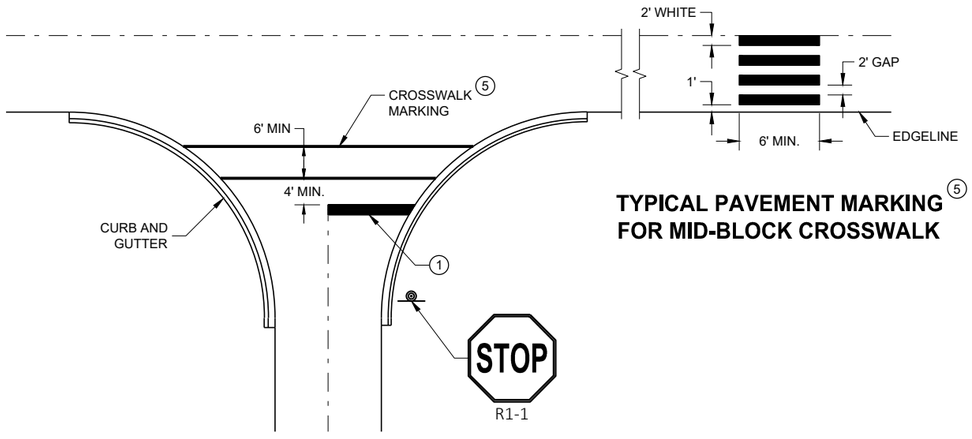
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE 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 INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

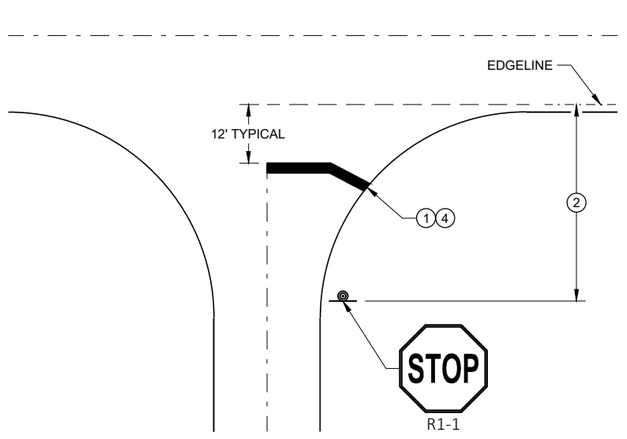


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

TYPICAL PAVEMENT MARKING 5 FOR MID-BLOCK CROSSWALK



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

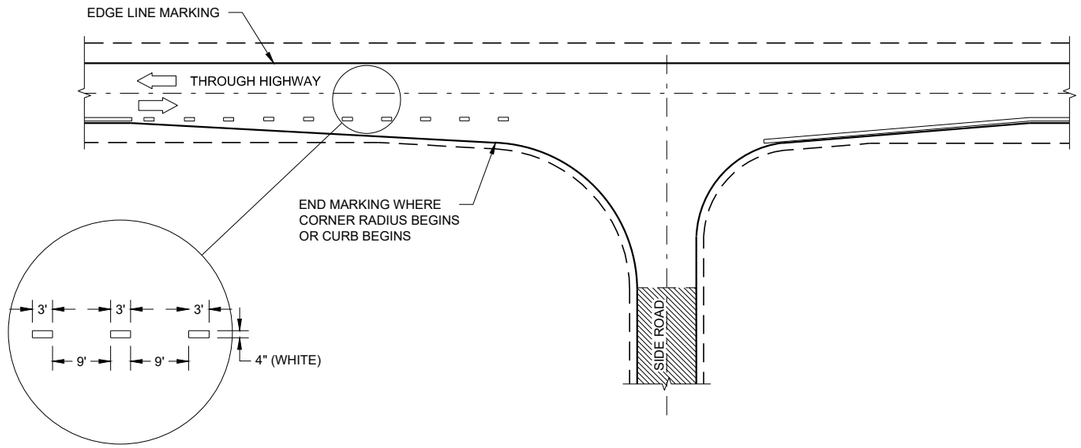
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

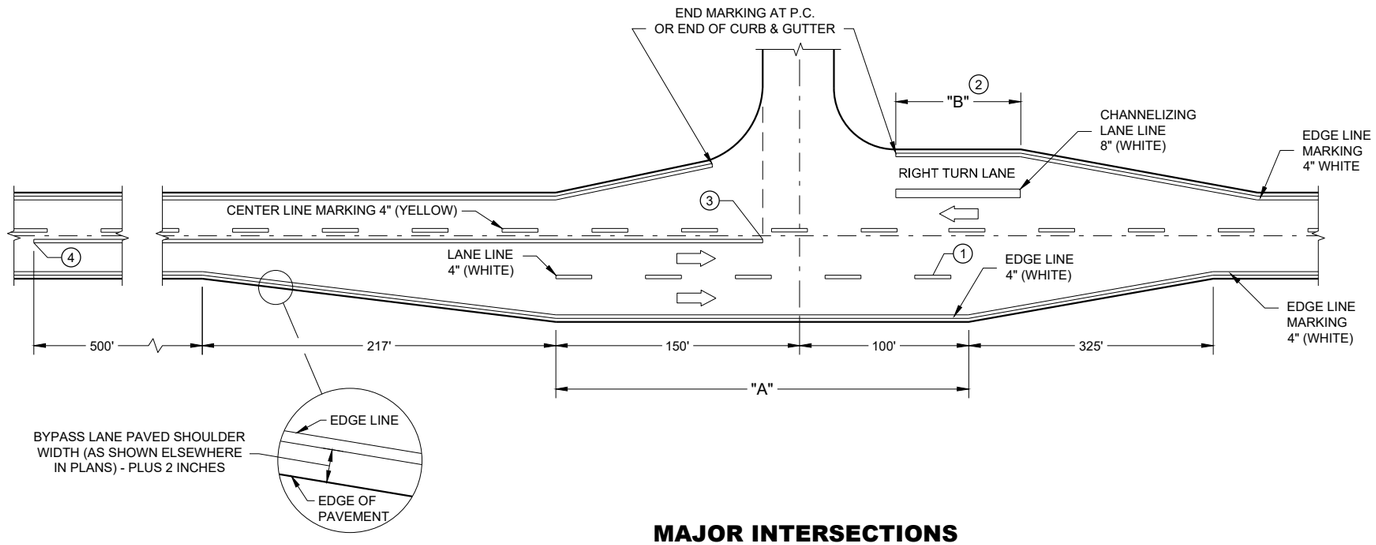
/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

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SDD 15C33 - 04



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

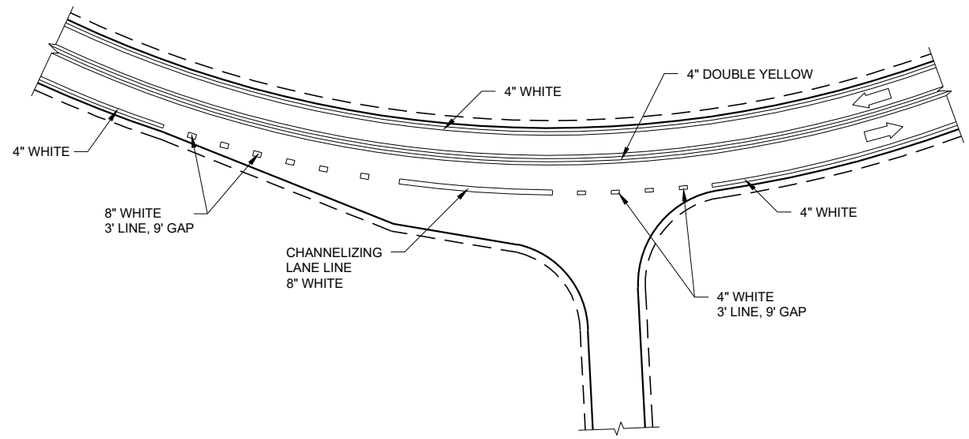
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

LEGEND

DIRECTION OF TRAVEL



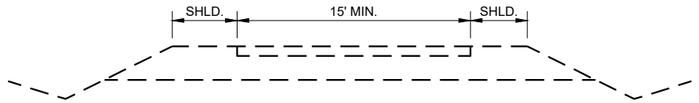
INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

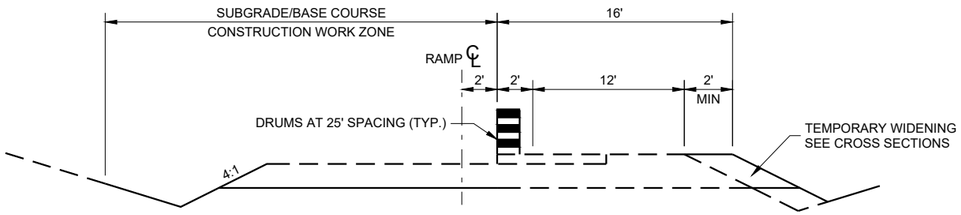
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 15C35 - 04a

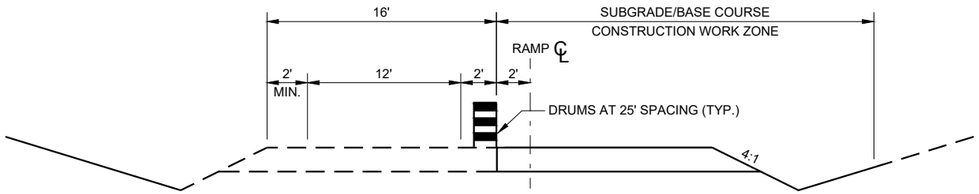
SDD 15C35 - 04a



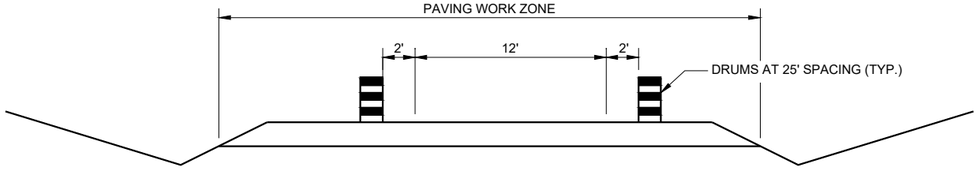
INITIAL RAMP - TYPICAL



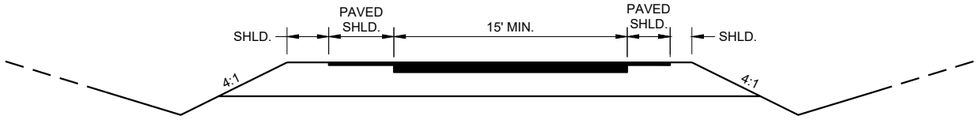
STAGE I - CONSTRUCTION TO SUBGRADE, LEFT



STAGE II - CONSTRUCTION TO SUBGRADE, RIGHT



STAGE III - TRAFFIC ON BASE COURSE



STAGE IV - PAVING

GENERAL NOTES

WORK SHALL BE SCHEDULED FOR ALL STAGES TO MINIMIZE INCONVENIENCE TO THE TRAFFIC USING THE RAMP WHILE IT IS ONLY BASE COURSE.

IN STATE III, A MINIMUM 12' LANE WIDTH SHALL BE DELINEATED WITH DRUMS ALONG BOTH EDGES AT ALL TIMES UNTIL PAVED AND PAVEMENT MARKINGS ARE PLACED.

6

SDD 15D04 - 01

TRAFFIC CONTROL, RAMP CONSTRUCTION STAGING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 1994
DATE

/S/ Chester J. Spano
DIRECTOR, OFFICE OF TR

FHWA

6

SDD 15D04 - 01

GENERAL NOTES

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

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

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

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

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

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

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

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

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

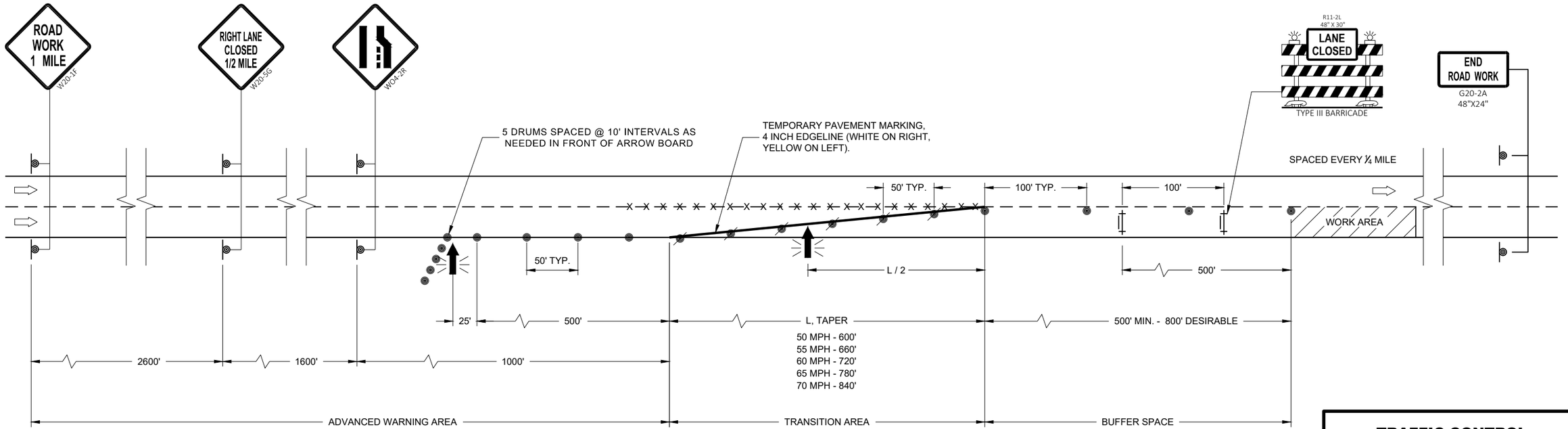
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D12 - 08a

6

SDD 15D12 - 08a

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

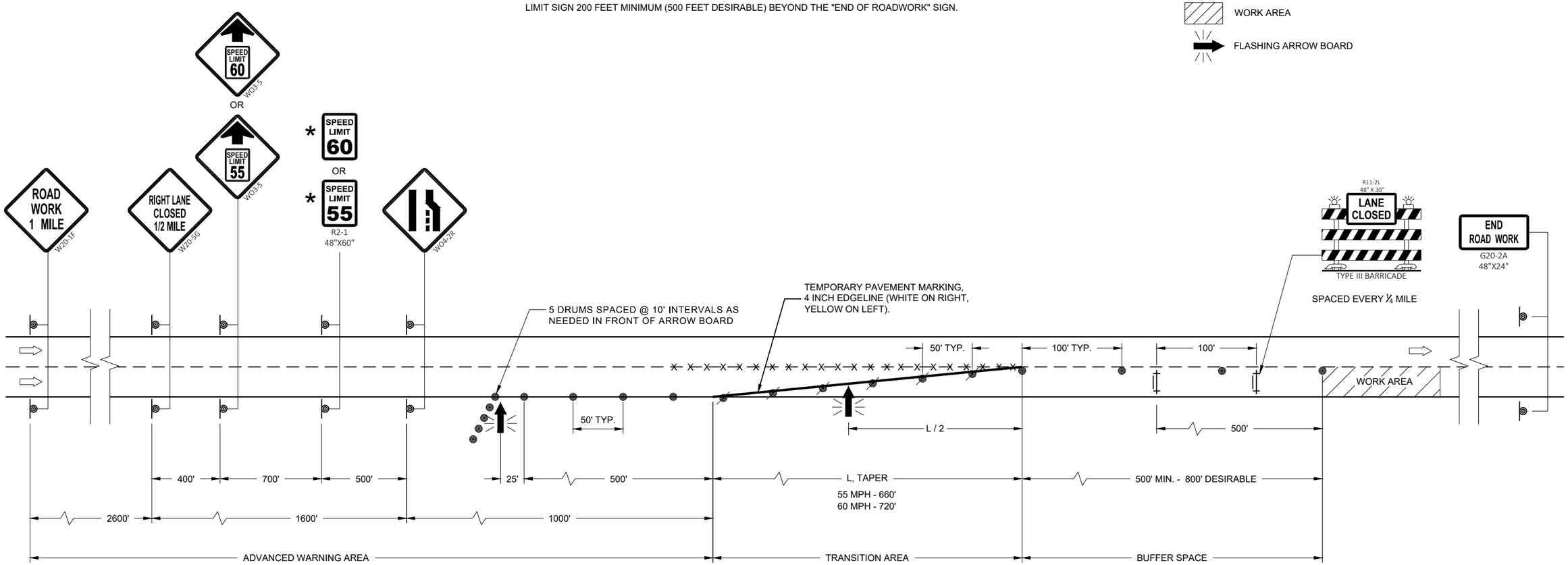
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

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

* A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES. INCLUDE A RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIRABLE) BEYOND THE "END OF ROADWORK" SIGN.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

SDD 15D12 - 08b

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SDD 15D12 - 08b

GENERAL NOTES

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

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

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

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

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

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

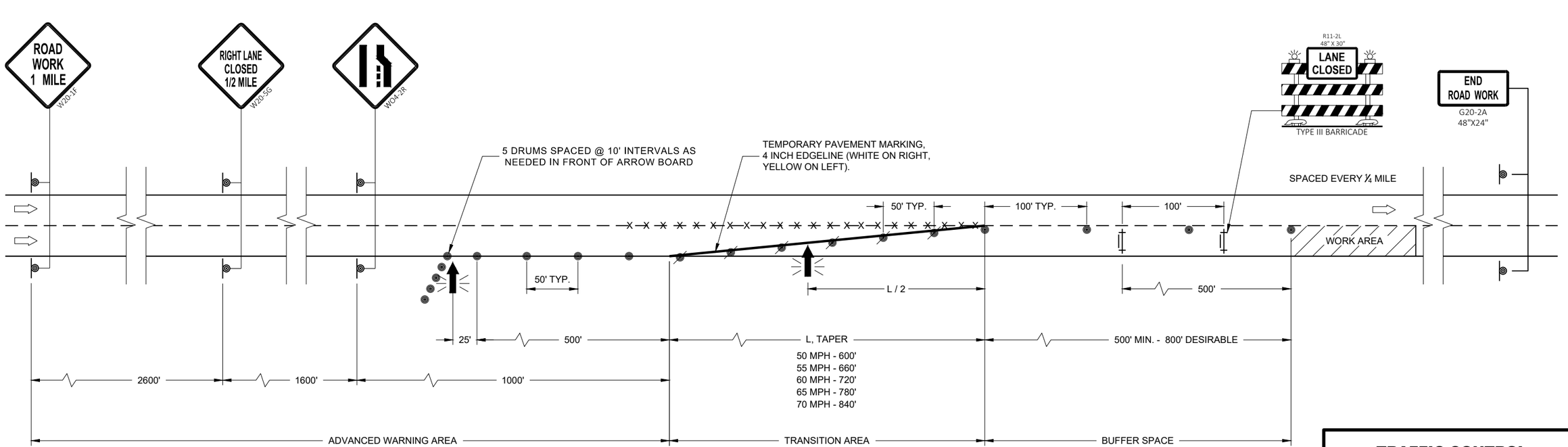
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



6

SDD 15D12 - 09a

6

SDD 15D12 - 09a

TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT TWO LANES. FOR CLOSING THE LEFT TWO LANES, REVERSE THE TRAFFIC CONTROL.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"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

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

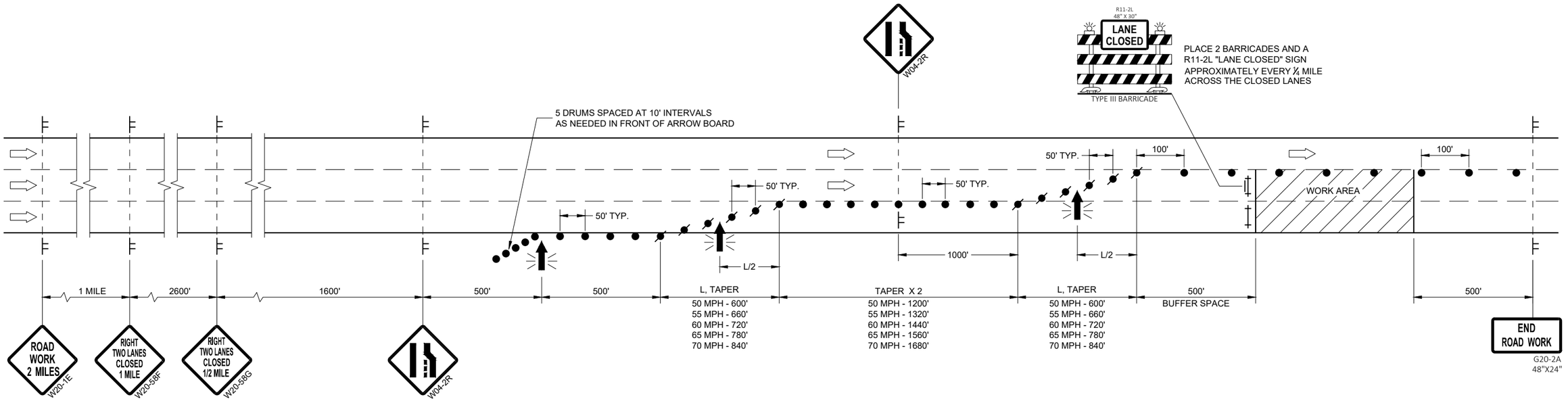
CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS.

WHEN A RAMP OR SIDE ROAD INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

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

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

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



TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM (LESS THAN 24 HOURS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

SDD 15D14 - 04

SDD 15D14 - 04

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC

GENERAL NOTES

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

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

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

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

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

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

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

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS /OR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

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

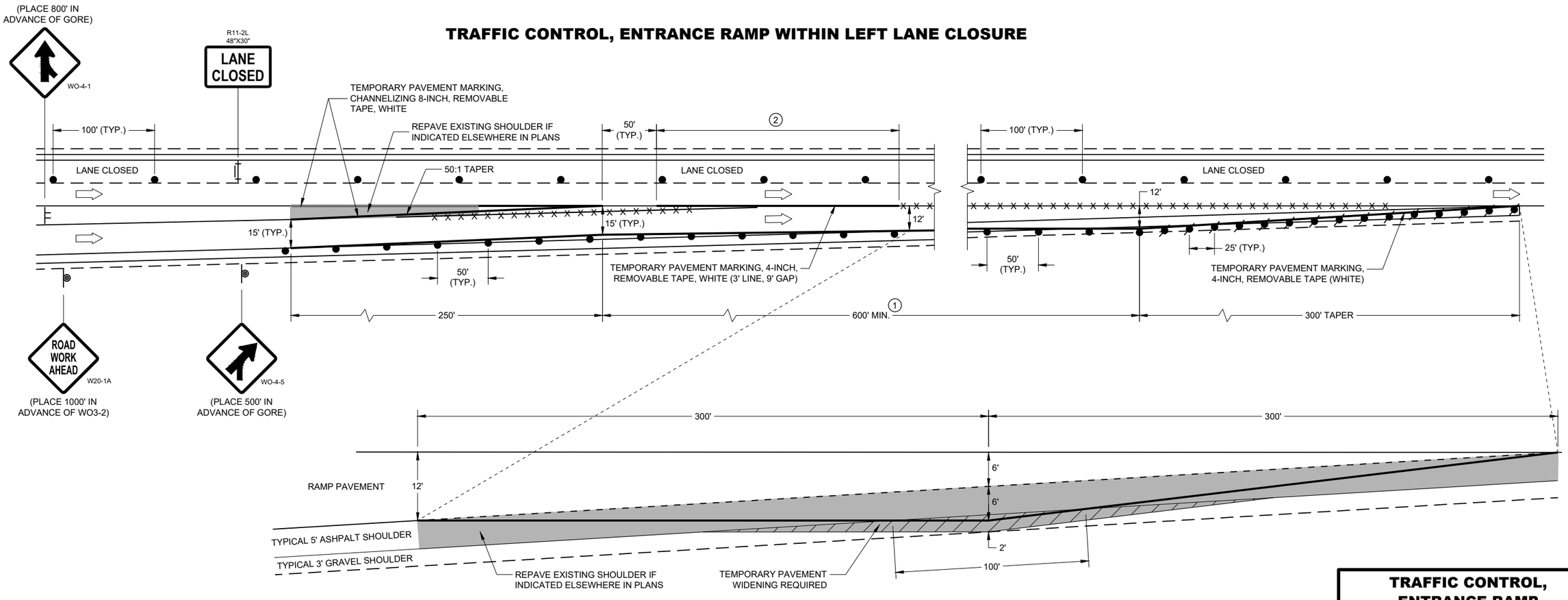
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

(1) EXTEND THE LENGTH OF THE MERGE AREA IF THE ENTERING (DESIGN) SPEED OF THE RAMP IS LESS THAN 50 MPH OR IF THE MAINLINE GRADE EXCEEDS ±2.2%.

(2) END TEMPORARY MARKING AT ½ THE LENGTH OF FULL WIDTH OF THE ACCELERATION LANE.

TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LEFT LANE CLOSURE



TEMPORARY PAVEMENT DETAIL

(EXISTING RAMP DIMENSIONS MAY VARY, ADJUST TEMPORARY PAVEMENT ACCORDINGLY)

TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D15 - 05b

6

SDD15D15 - 05b

LEGEND

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TYPE III BARRICADE WITH ATTACHED SIGN

FLAGS, 16" X 16" MIN., ORANGE

DIRECTION OF TRAFFIC

GENERAL NOTES

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

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

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

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

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

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

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

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

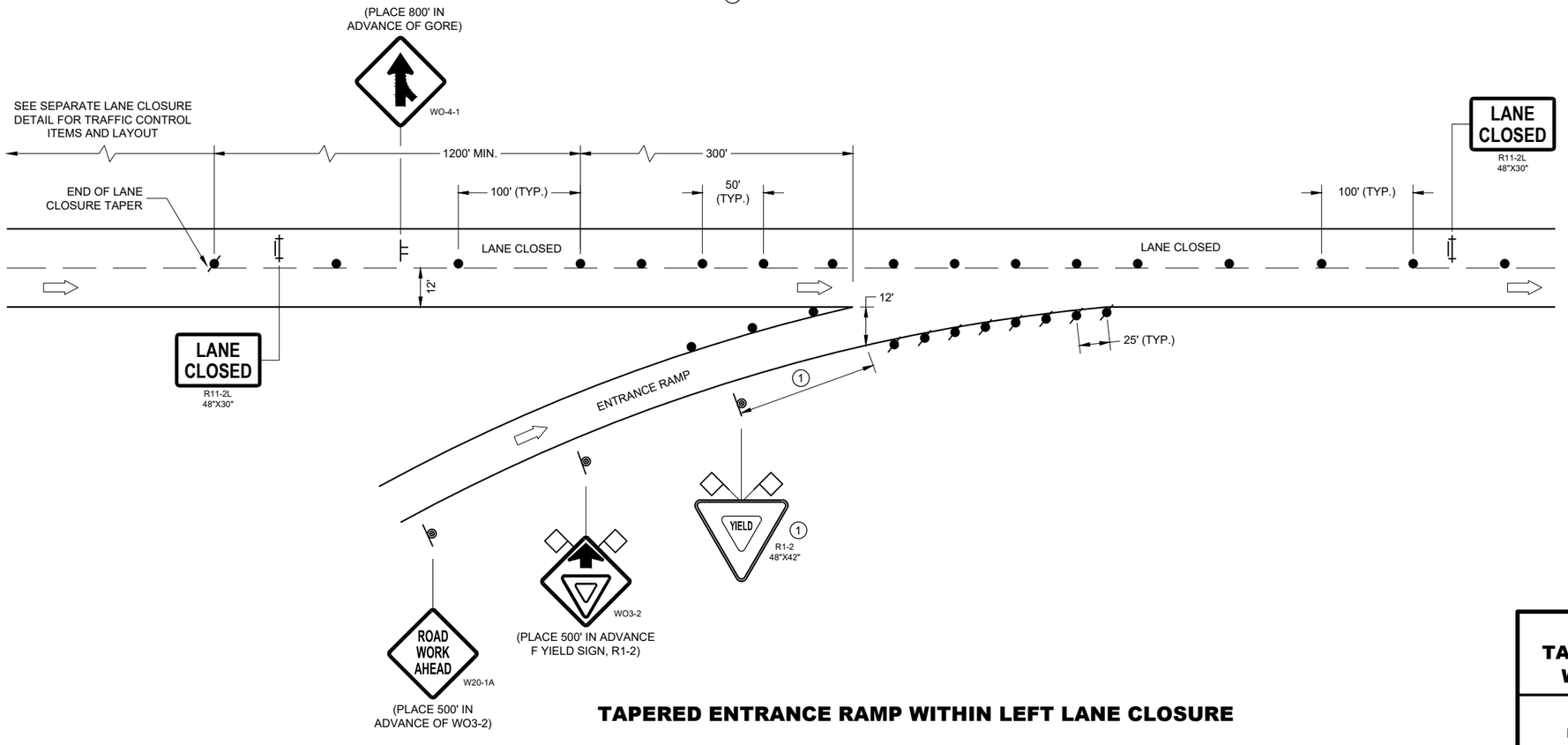
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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

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

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

(1) PLACE YIELD SIGN TO PROVIDE ADEQUATE SIGHT DISTANCE AND ACCELERATION DISTANCE.



TAPERED ENTRANCE RAMP WITHIN LEFT LANE CLOSURE

TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

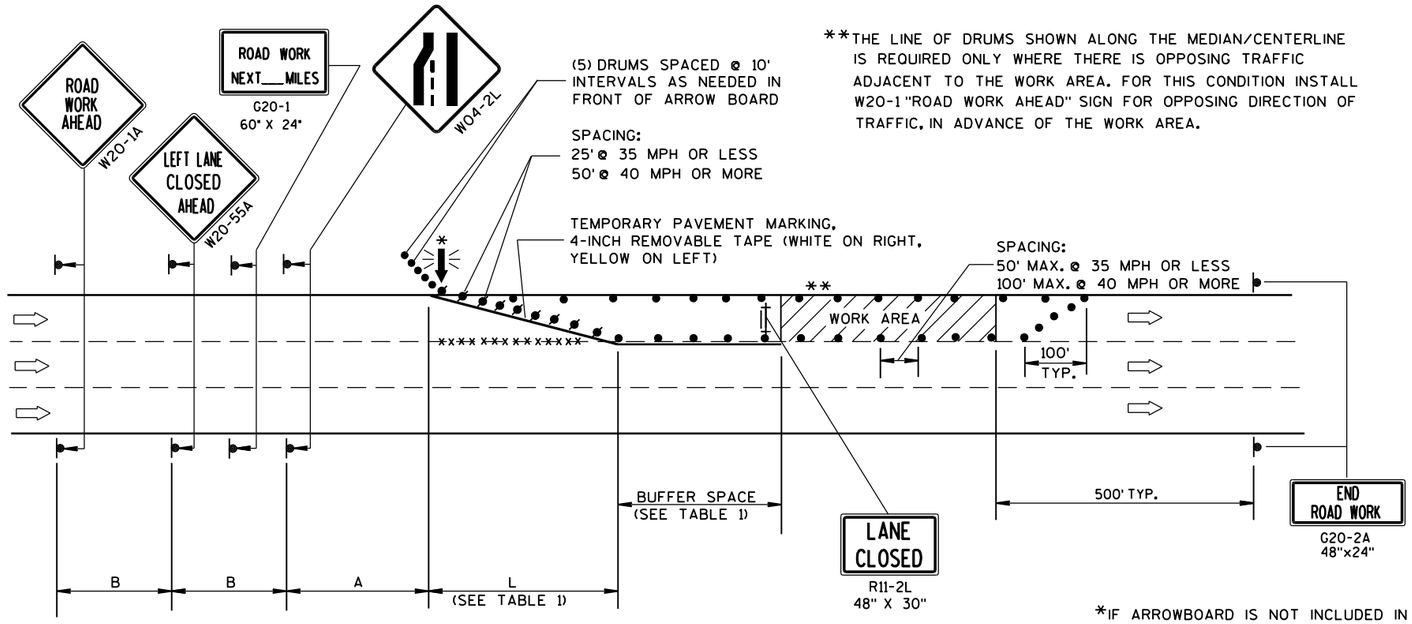
FHWA

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SDD 15D15 - 05d

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**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

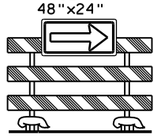


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

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

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

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

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

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

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

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

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

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

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

BARRICADES IN A CLOSED LANE 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.

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
FHWA

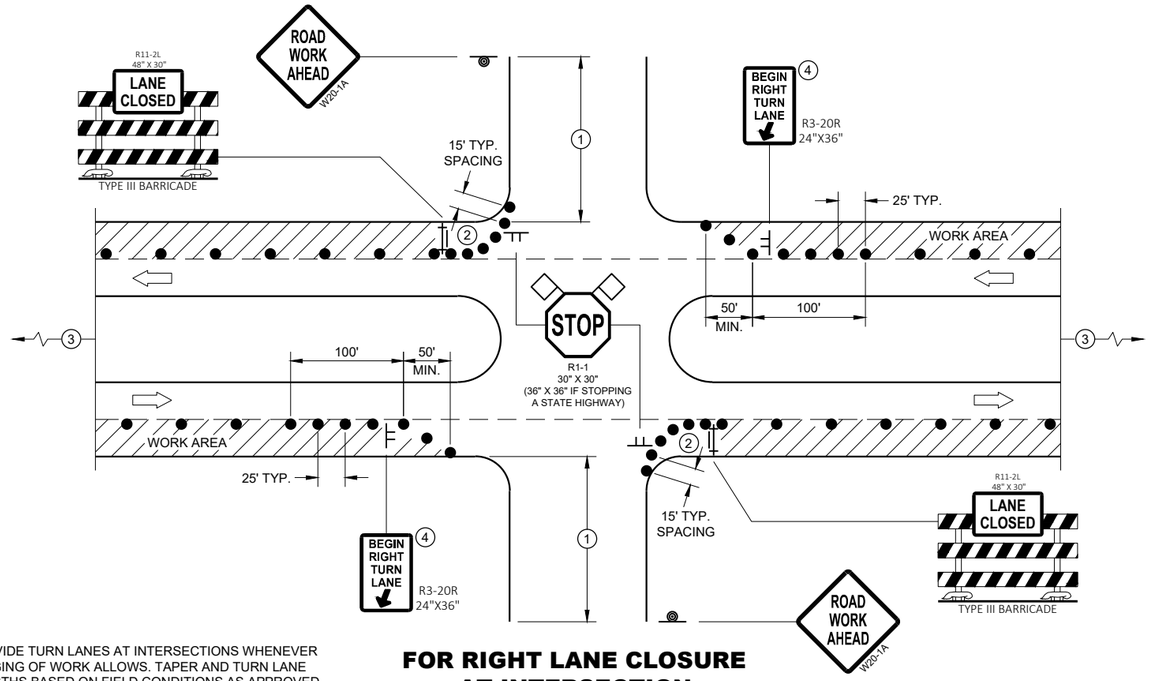
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER — IC

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S.D.D. 15 D 20-4



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

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.

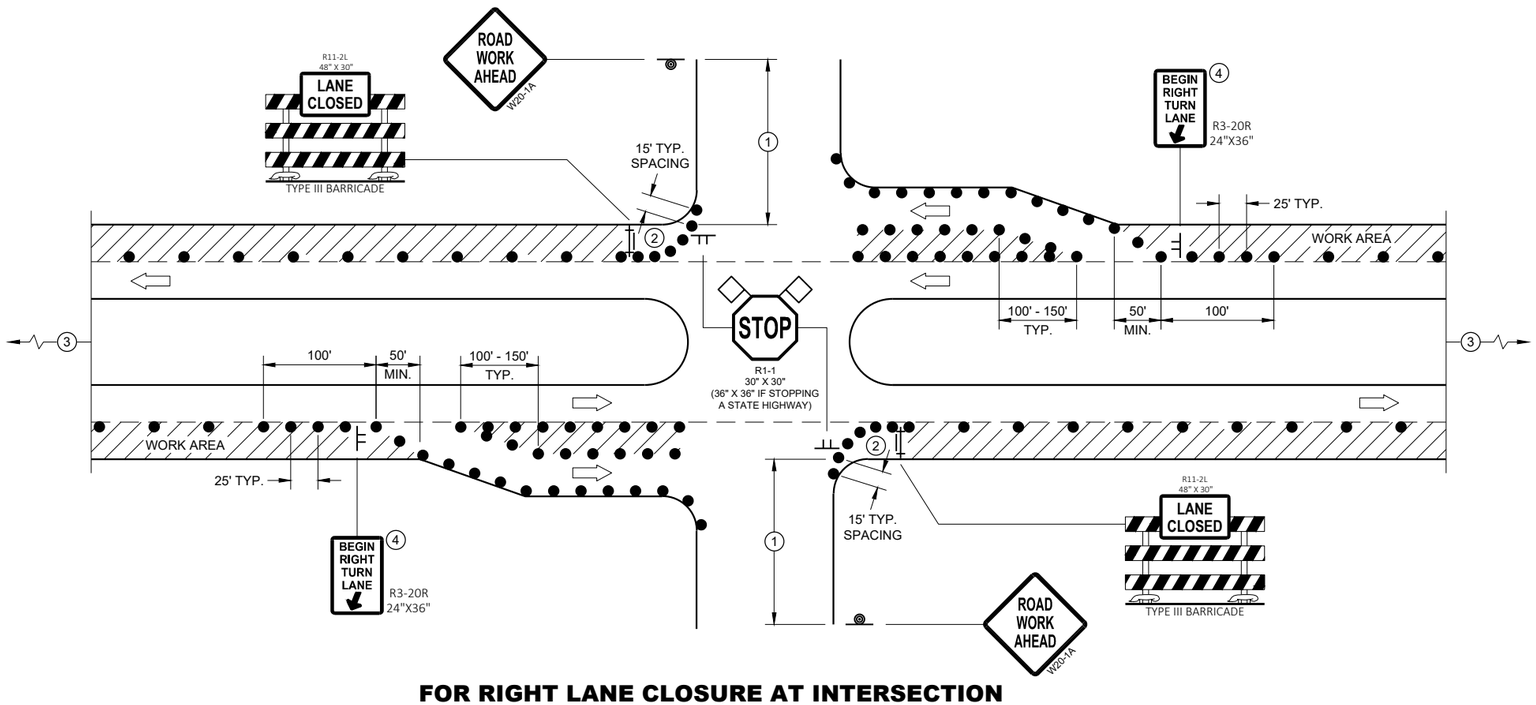
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(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 RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT 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 RIGHT LANE CLOSURE

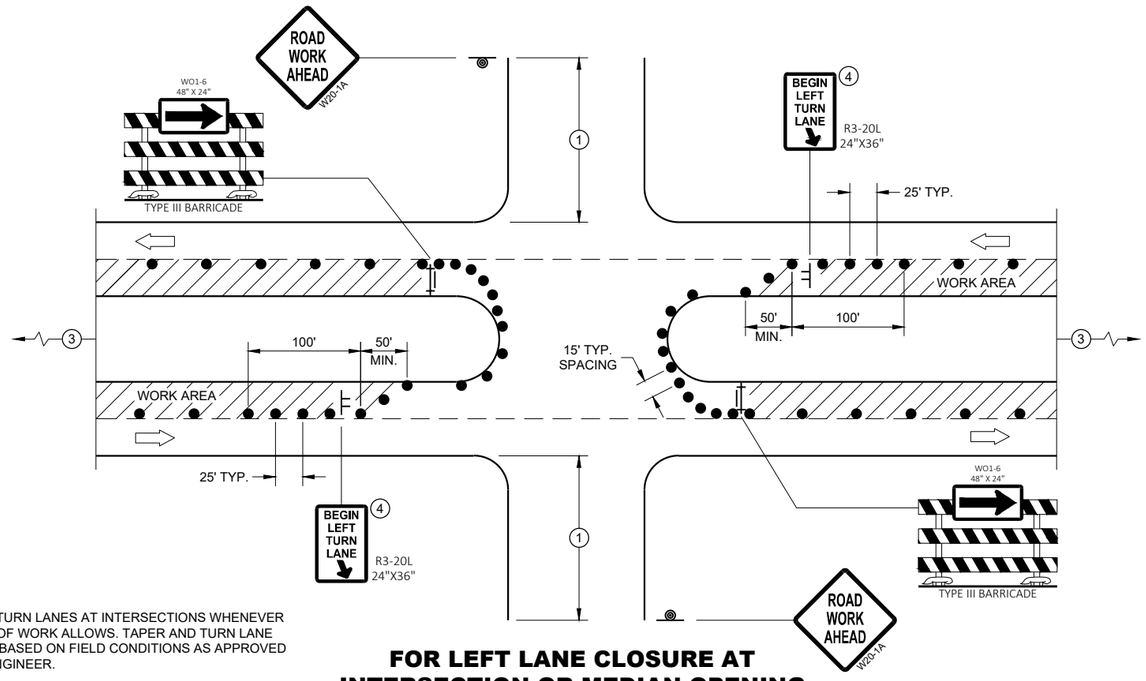
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 15D21 - 07a

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SDD 15D21 - 07a



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.

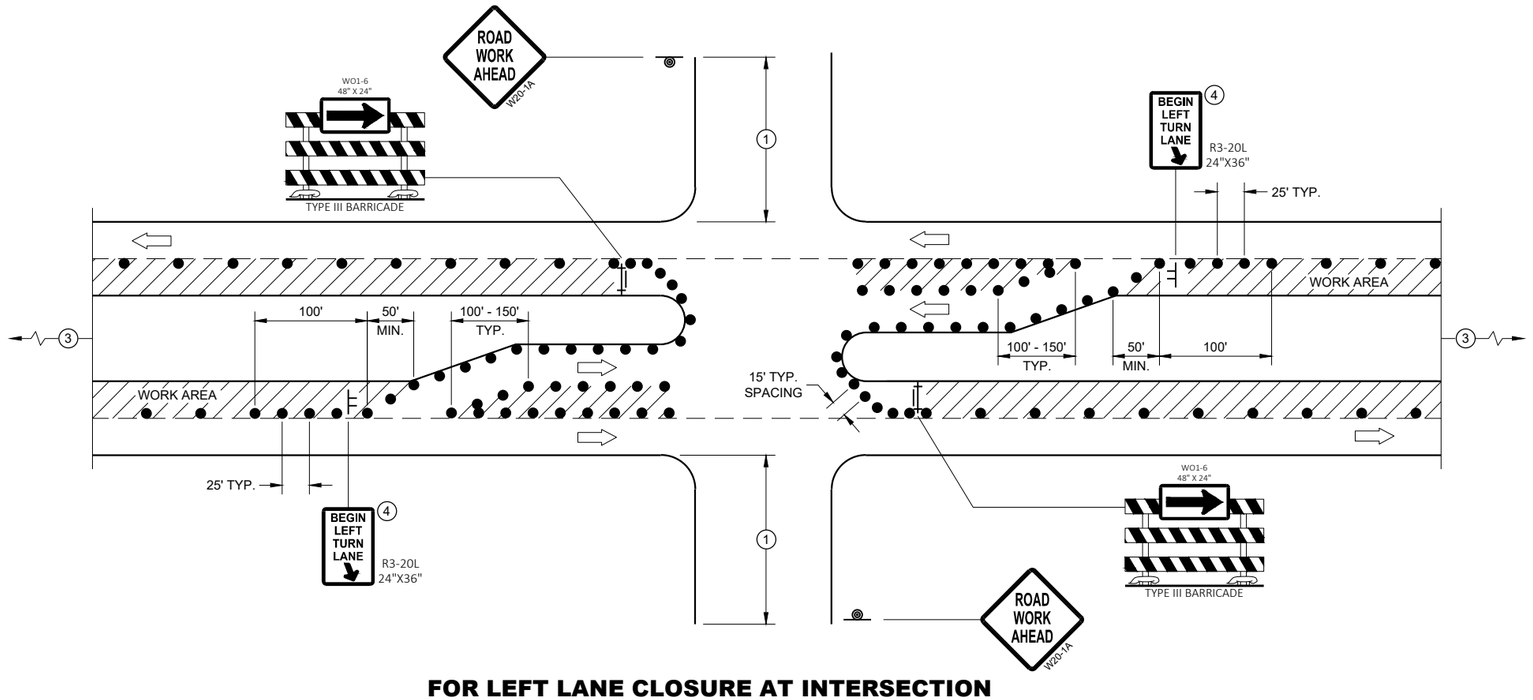
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(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

6

SDD 15D21 - 07b

6

SDD 15D21 - 07b

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

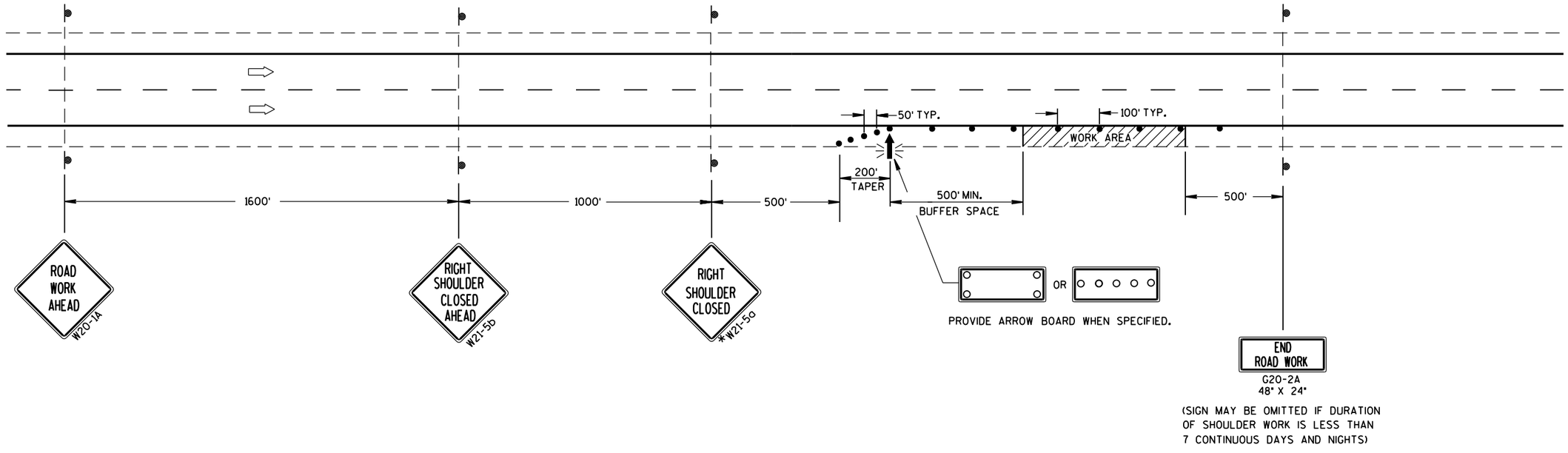
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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 THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A 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.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

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S.D.D. 15 D 27-3

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES

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

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

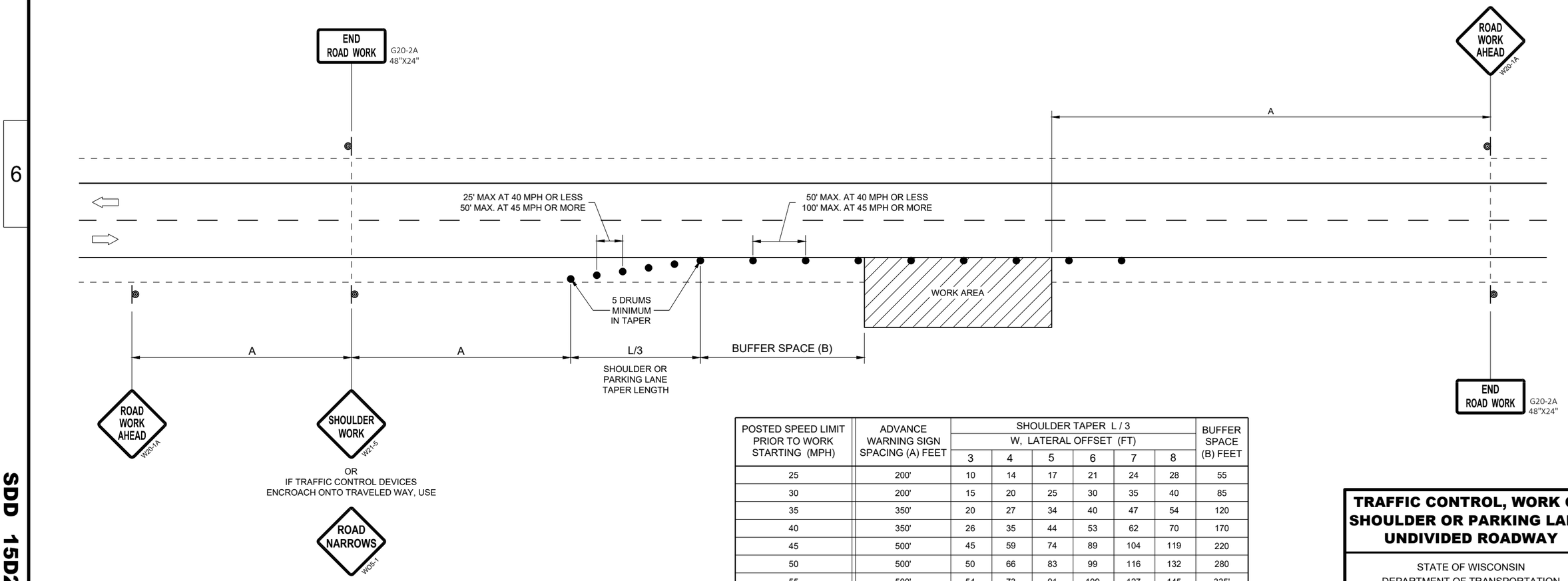
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

W20-1A 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 OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

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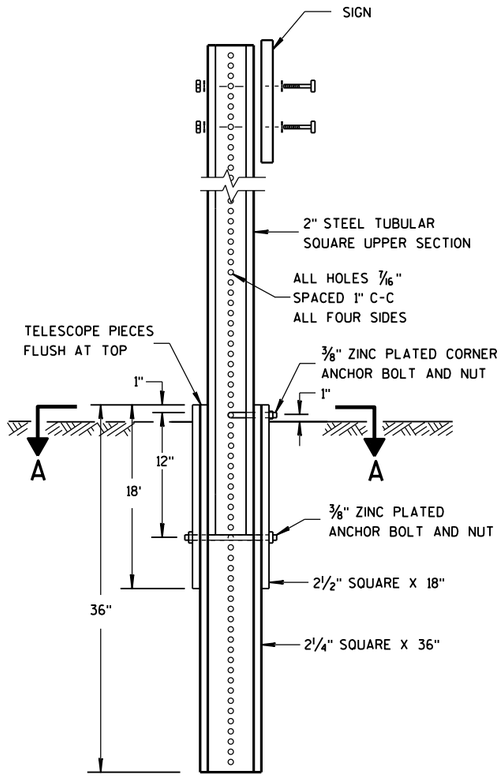
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

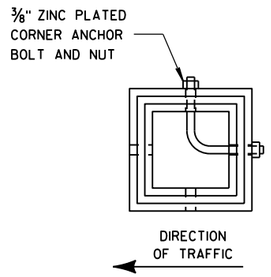
FHWA

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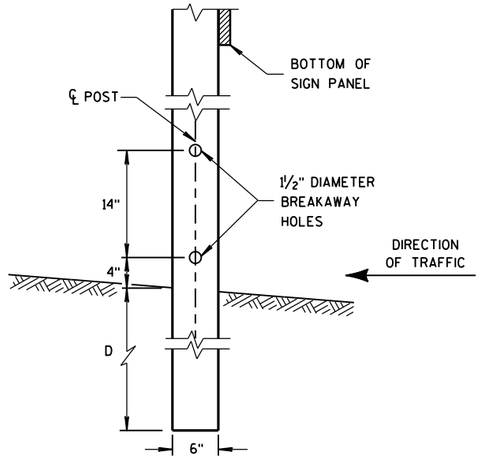
SDD 15D28 - 04



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



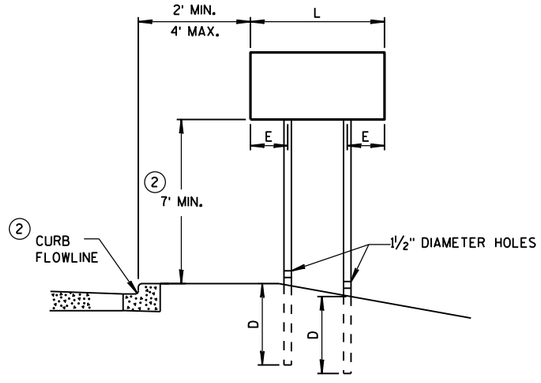
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

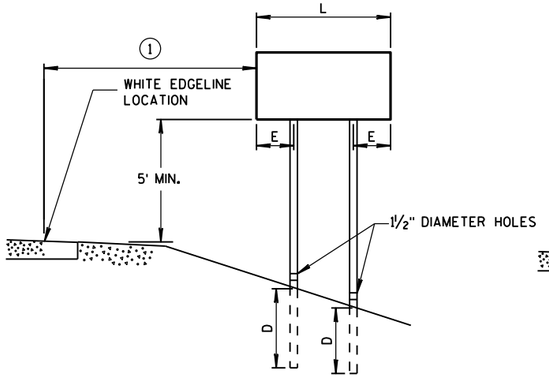
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

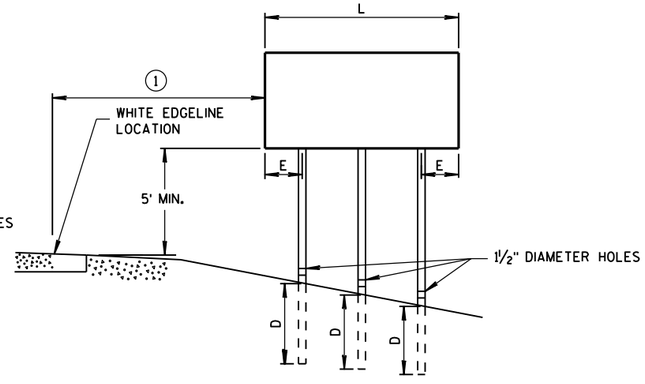
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

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

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

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

4" X 6" WOOD POST

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

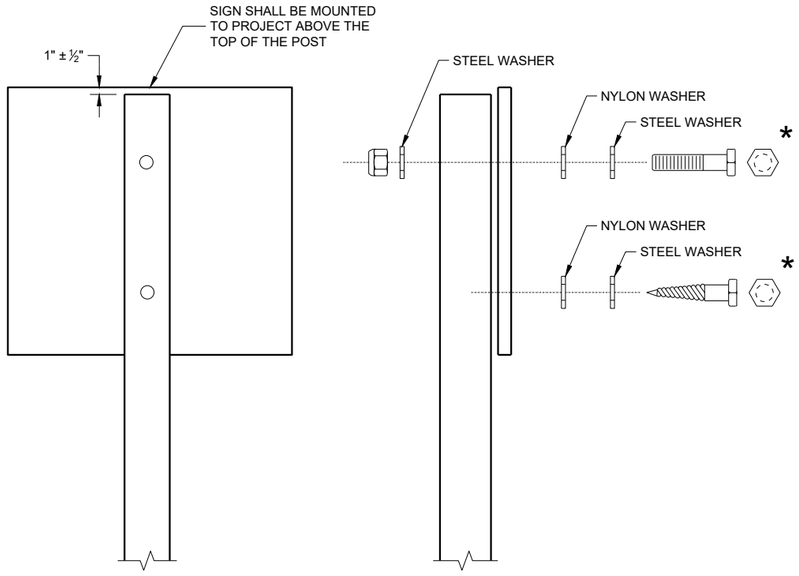
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 D 38-2a



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POST (4" x 6")
LAG SCREWS - ⅜" x 3"
MACHINE BOLTS - 5/16" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - ⅜" x 3 ¼" LENGTH W/NUTS
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 ¼" O.D. x ⅜" I.D. x 1/16" STEEL
1 ¼" O.D. x ⅜" I.D. x 0.080 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

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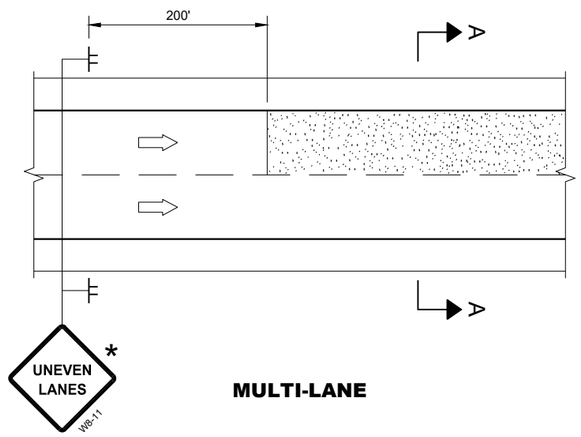
SDD15D38 - 02b

ATTACHMENT OF SIGNS TO POSTS

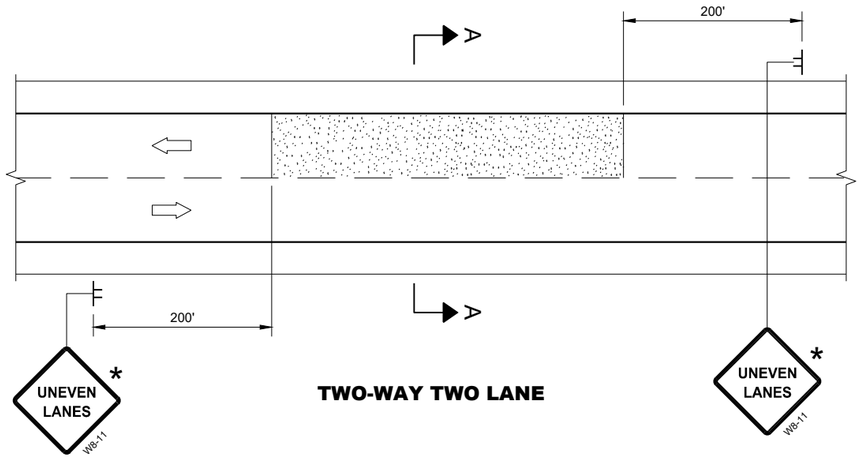
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA



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.

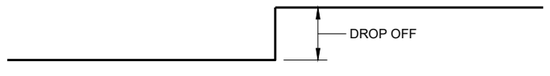
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* 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.

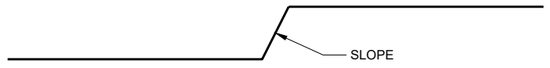
LEGEND

- 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

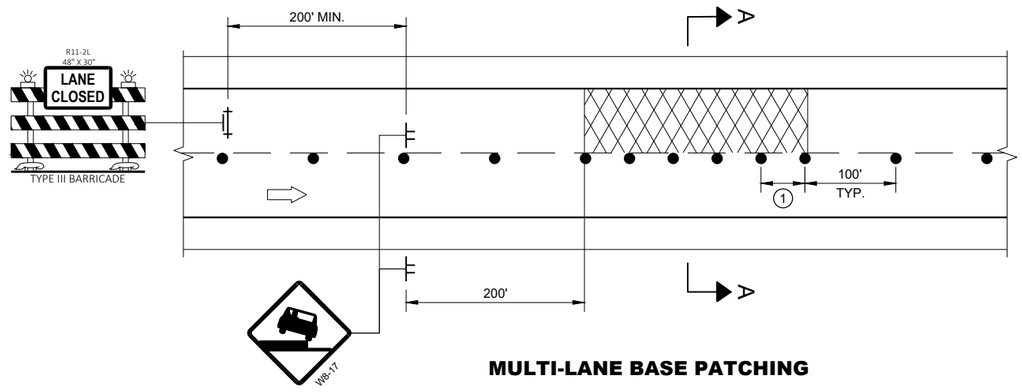


SECTION A - A

OR

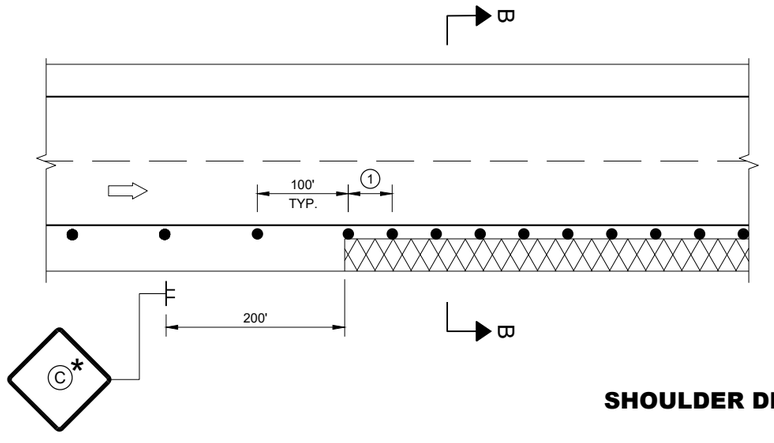


SECTION A - A

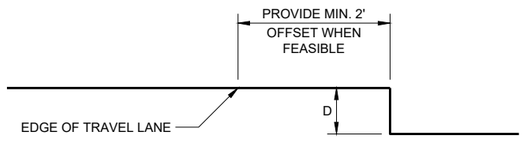


MULTI-LANE BASE PATCHING

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

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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
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

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

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

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

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

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

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

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

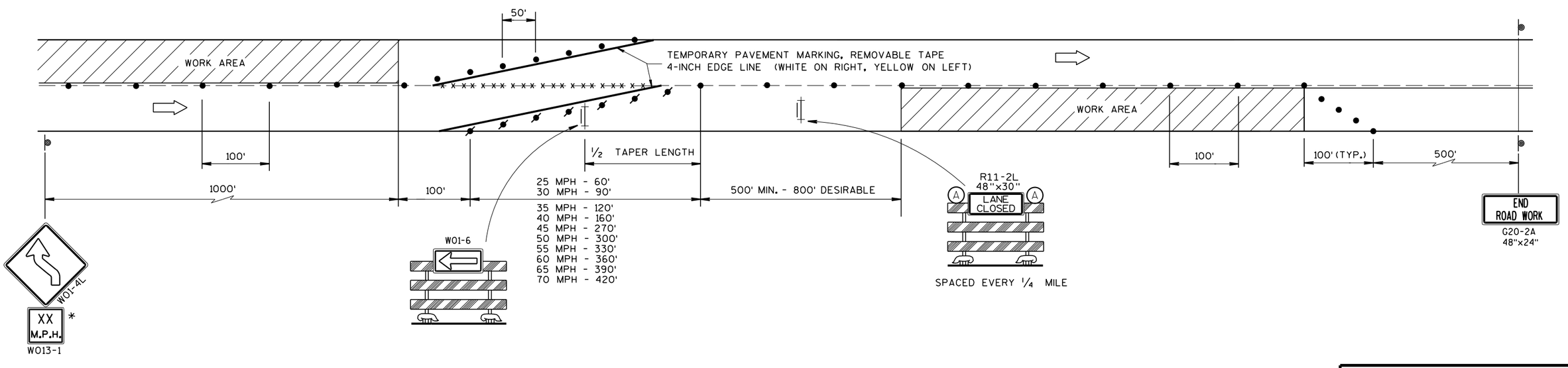
FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

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

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

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.



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

LANE SHIFT MULTI-LANE DIVIDED OR ONE WAY ROAD

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE
/S/ Andrew I
WORK ZONE EN
FHWA

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S.D.D. 15 D 40-1

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- CONSTRUCTION TRAFFIC
- WORK AREA

TABLE 1

S (MPH)	INGRESS, L	EGRESS, L
50	435'	720'
55	480'	960'
60	530'	1200'
65	570'	1410'
70	615'	1620'

LEGEND

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"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.

WORK ZONE INGRESS/EGRESS LOCATIONS SHALL BE APPROVED BY THE ENGINEER. LOCATIONS FOR WORK ZONE ACCESS TO/FROM THE FREEWAY SHALL NOT BE USED FOR INGRESS AND EGRESS AT THE SAME TIME.

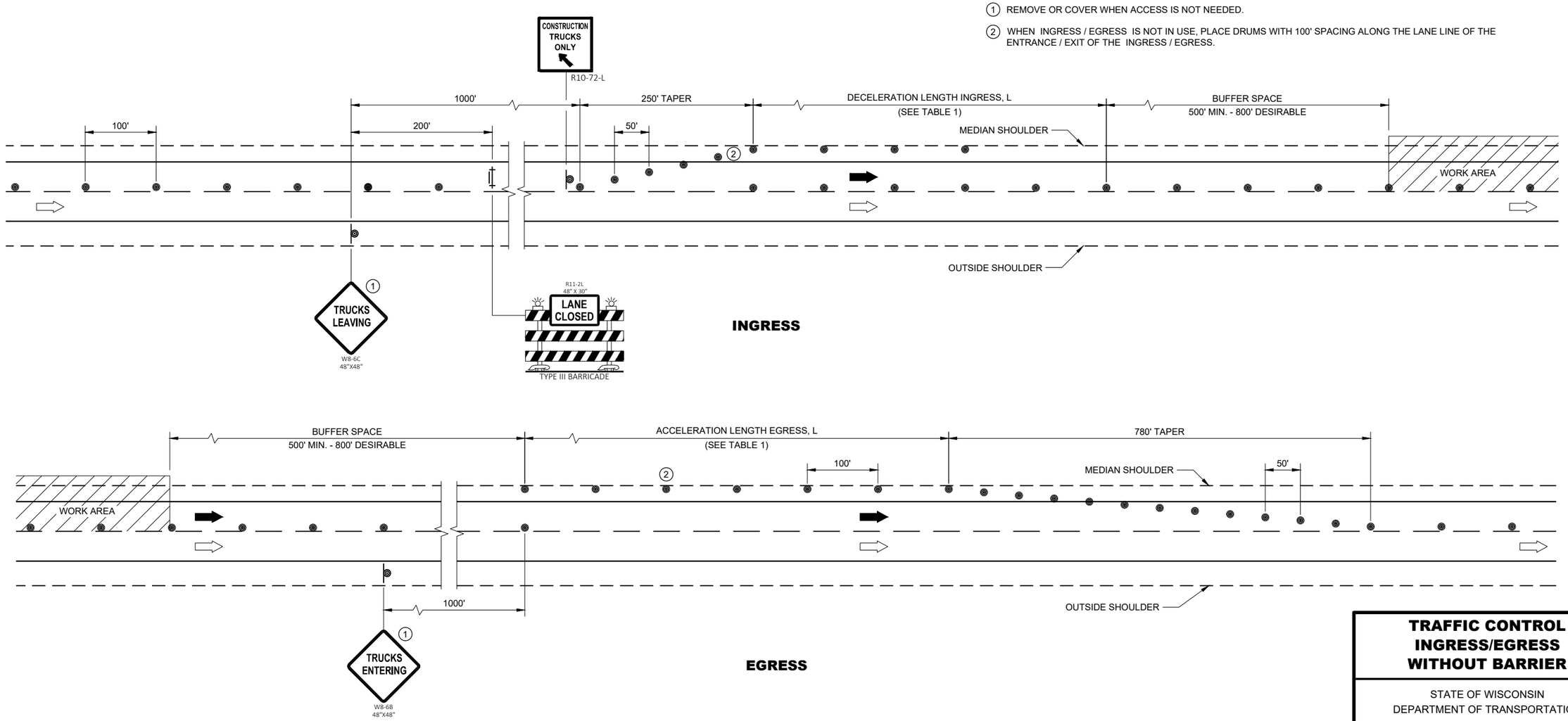
THIS ACCESS DETAIL IS TYPICAL FOR LEFT LANE ACCESS, FOR RIGHT LANE ACCESS, REVERSE THE TRAFFIC CONTROL

TEMPORARY SUPPORTS MAY BE USED IF PLACED BEHIND TEMPORARY BARRIER WALL

TRUCKS SHALL USE FLASHING YELLOW BEACON WHEN ENTERING AND EXITING LIVE TRAFFIC.

(1) REMOVE OR COVER WHEN ACCESS IS NOT NEEDED.

(2) WHEN INGRESS / EGRESS IS NOT IN USE, PLACE DRUMS WITH 100' SPACING ALONG THE LANE LINE OF THE ENTRANCE / EXIT OF THE INGRESS / EGRESS.



TRAFFIC CONTROL INGRESS/EGRESS WITHOUT BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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SDD 15D47 - 01b

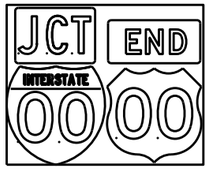
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SDD 15D47 - 01b

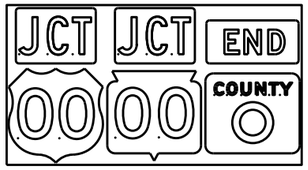
TYPICAL ASSEMBLIES



J1-1



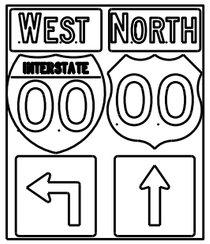
J1-2



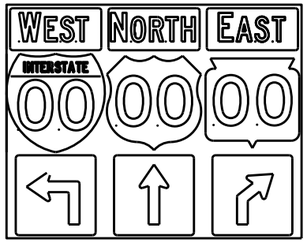
J1-3



J2-1



J2-2

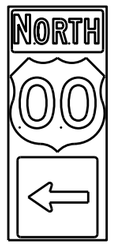


J2-3

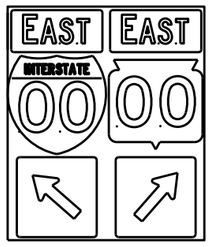


JV

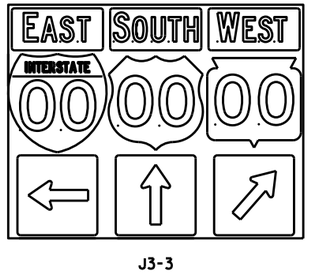
(Typical Vertical J-Assembly
See Note 10 and 11)



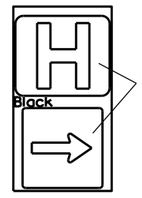
J3-1



J3-2



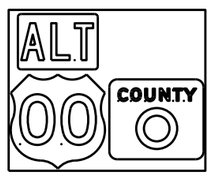
J3-3



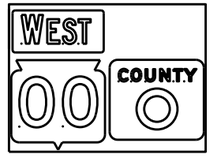
JH-1



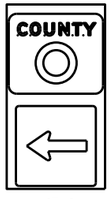
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

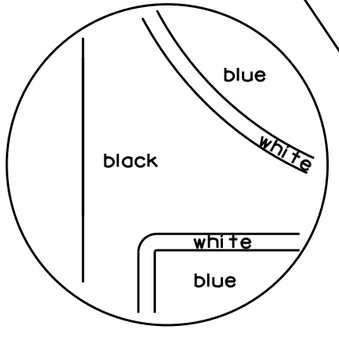


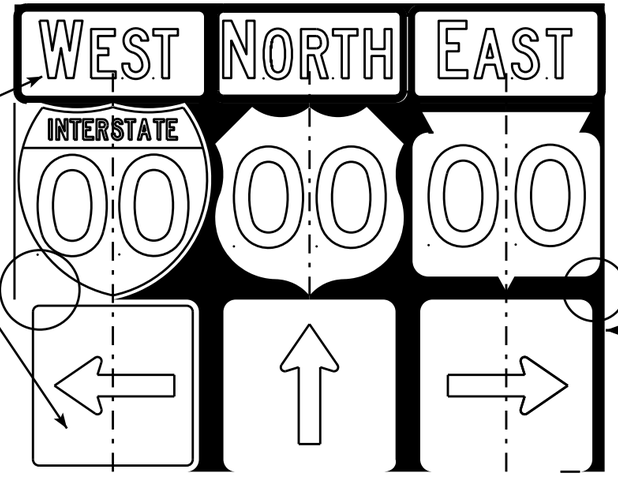
J23-1

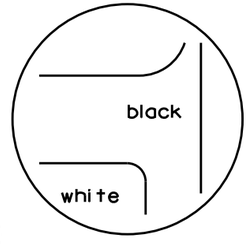


J22-1

blue background
with interstate







black background

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. 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.
7. 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.
8. 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.
9. 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.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

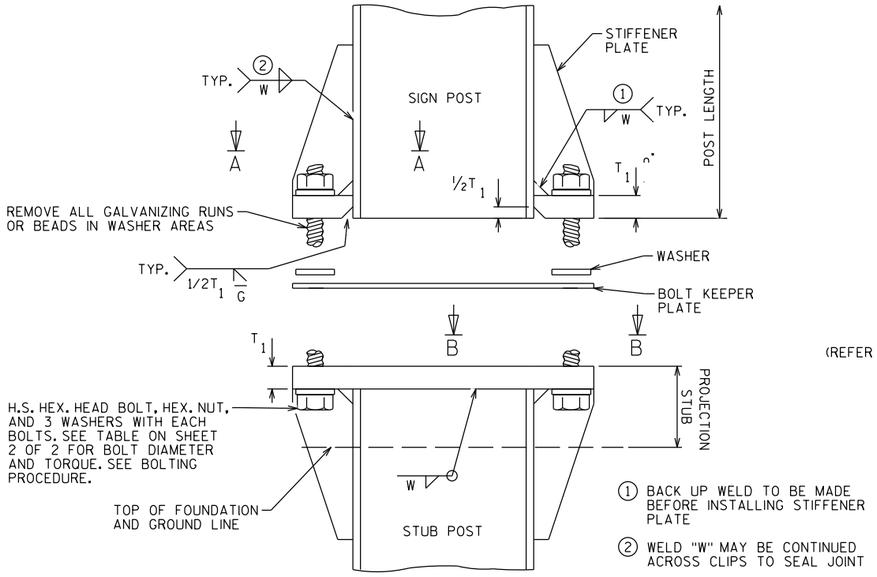
DATE 2/06/14 PL... A2-1S.8

PROJECT NO:

SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

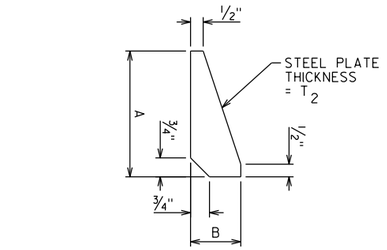
WISDOT/CADDS SHEET 42



① BACK UP WELD TO BE MADE BEFORE INSTALLING STIFFENER PLATE

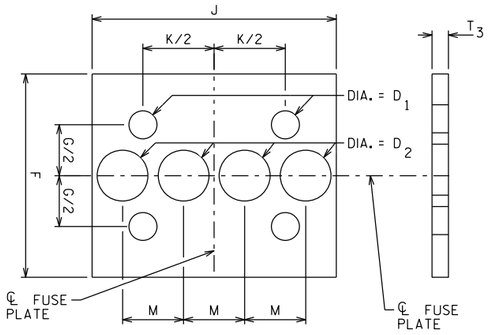
② WELD "W" MAY BE CONTINUED ACROSS CLIPS TO SEAL JOINT

SIGN POST & STUB POST ELEVATION



STIFFENER PLATE DETAIL

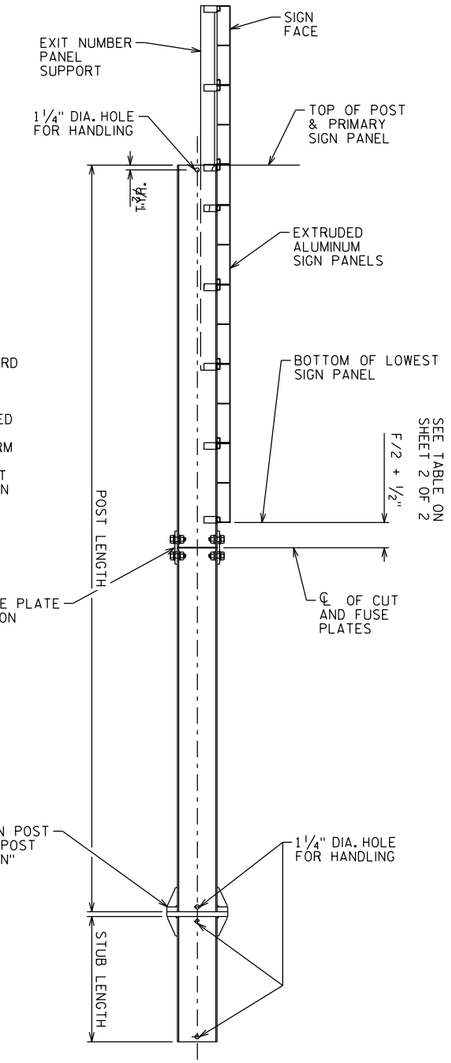
(REFER TO TABLE ON SHEET 2 OF 2 FOR DIMENSIONS)



PERFORATED FUSE PLATE DETAIL

USE H.S. HEX HEAD BOLTS, HEX HEAD NUT AND FLAT WASHER UNDER NUT. INSTALL BOLTS PER THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTION 506.3.12.3.

ALL HOLES SHALL BE DRILLED, SUB-PUNCHED AND REAMED. ALL PLATE CUTS SHALL PREFERABLY BE SAW CUTS. HOWEVER, FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GROUND. METAL PROJECTING BEYOND THE PLANE OF THE PLATE FACE WILL NOT BE PERMITTED. STEEL FUSE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36. ASTM A572 GRADE 50 OR ASTM A588 MAY BE SUBSTITUTED FOR A36 AT THE OPTION OF THE FABRICATOR. MILL TEST REPORTS SHALL BE SUBMITTED FOR FUSE PLATES. STEEL USED SHALL HAVE AN ULTIMATE TENSILE STRENGTH NOT TO EXCEED 80 KSI.



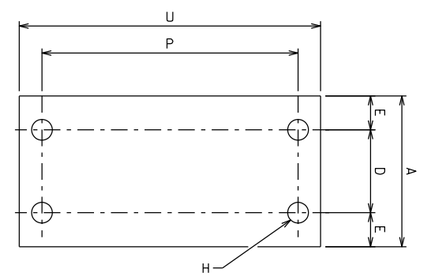
POST DETAIL

☆ WELD THICKNESS = FLANGE THICKNESS - 1/16"

SECTION A-A

SECTION B-B

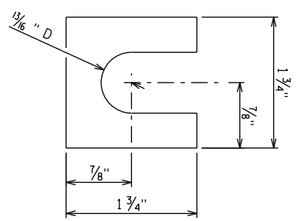
FUSE PLATE CONNECTION DETAIL



H = BOLT DIA. + 1/8"

BOLT KEEPER PLATE DETAIL

30 GA GALVANIZED SHEET STEEL



SHIM DETAIL

FURNISH TWO .012"± THICK AND TWO .032"± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO ASTM B36.

BOLTING PROCEDURE FOR BASE CONNECTION

1. ASSEMBLE SIGN POST, BOLT KEEPER PLATE, AND STUB POST WITH BOLTS AND THREE FLAT WASHERS PER BOLT AS SHOWN.
2. SHIM AS REQUIRED TO PLUMB POST.
3. PRIOR TO BOLT TIGHTENING, LUBRICATE BASE CONNECTION BOLTS WITH BEESWAX OR OTHER HIGH-WAX LUBRICANT.
4. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH A 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS.
5. LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PERSCRIBED TORQUE. (SEE TABLE FOR PERSCRIBED TORQUE). DO NOT OVER-TIGHTEN.
6. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE BTO TYPE I SIGNS

DRAWN BY	PLANS CK'D.

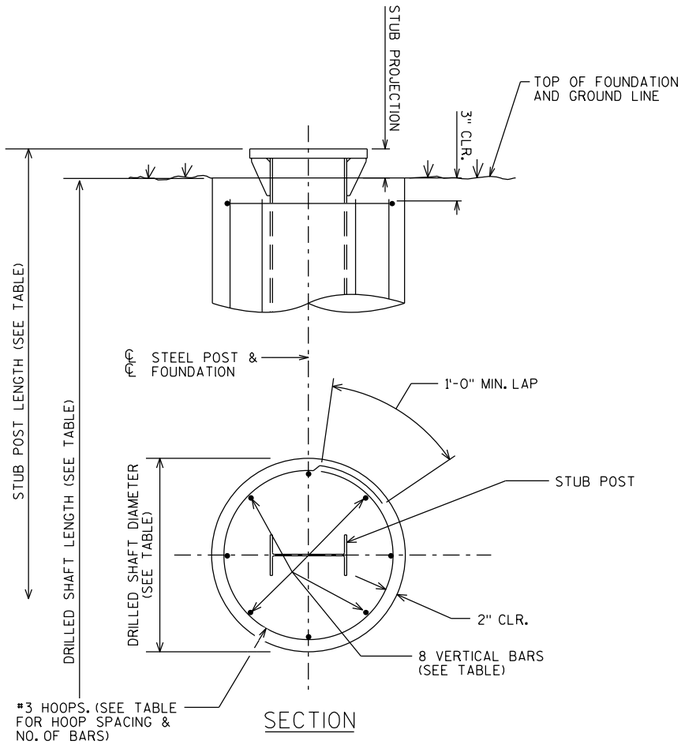
CONNECTION & FOUNDATION DETAILS 1 OF 2

SHEET A3-1.20

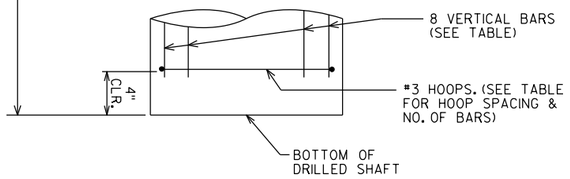
330

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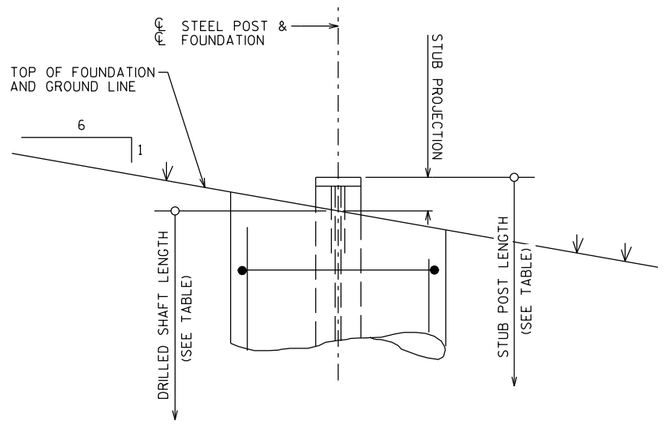
7



SECTION



FOUNDATION DETAIL



SHAFT PLACEMENT

FOUNDATION DATA TABLE

POST SHAPE	STUB LENGTH	STUB PROJECTION	DRILLED SHAFT DIAMETER	DRILLED SHAFT LENGTH	VERTICAL BARS		HOOPS		CONCRETE VOLUME ◆	TOTAL REINF. WEIGHT ◆
					SIZE	LENGTH	MAX SPA.	NO.		
W6X15	2'-6"	3"	24"	6'-6"	#5	5'-11"	10"	9	0.8 CY	71 LB
W8X18	2'-6"	3"	24"	7'-6"	#6	6'-11"	12"	8	0.9 CY	102 LB
W8X21	3'-0"	2½"	24"	8'-0"	#6	7'-5"	12"	9	1.0 CY	110 LB
W10X22	3'-0"	2½"	24"	8'-6"	#7	7'-11"	12"	9	1.0 CY	151 LB
W12X26	3'-0"	2½"	24"	10'-0"	#7	9'-5"	12"	11	1.2 CY	180 LB

◆ QUANTITIES SHOWN ARE FOR ONE DRILLED SHAFT

BASE CONNECTION & FUSE PLATE DATA TABLE

POST SHAPE	WEIGHT PER FOOT	BASE CONNECTION DATA: BOLT SIZE & TORQUE	A	B	C	D	E	T1	T2	W	R	BOLT KEEPER PLATE DATA: P	U	PERFORATED FUSE PLATE DATA: F	G	J	K	M	D1	D2	T3	BOLT DIA.	WGT. EA. LBS	BOLT LENGTH	V ◪
W6X15	15 LB	⅝" DIA. X 4" 36 TO 38 FT-LB	5"	2"	1¼"	2¾"	1⅛"	1¼"	½"	¼"	11/32"	8½"	10"	5"	2½"	6"	3½"	1½"	11/16"	1¼"	⅜"	⅝"	2.4	2	73.0 LB
W8X18	18 LB											10⅝"	12⅛"	5"	2½"	5¼"	2¾"	1¼"	11/16"	1 1/16"	⅜"	⅝"	2.0	2	83.0 LB
W8X21	21 LB	¾" DIA. X 4¾" 62 TO 63 FT-LB	6"	2¼"	1⅜"	3½"	1¼"	1½"	¾"	5/16"	13/32"	11"	12¾"	5½"	2½"	5¼"	2¾"	1¼"	13/16"	1"	½"	¾"	3.1	2¼"	124.0 LB
W10X22	22 LB											12⅞"	14⅝"	6"	3"	5¾"	2¾"	1⅜"	13/16"	1⅛"	½"	¾"	3.9	2¼"	134.0 LB
W12X26	26 LB											15"	16¾"	6"	3"	6½"	3½"	1⅝"	13/16"	1 5/16"	½"	¾"	4.5	2¼"	152.0 LB

◪ TOTAL STRUCTURAL CARBON STEEL WEIGHT FOR ONE POST = V + (POST LENGTH X POST WEIGHT PER FOOT)

"V" INCLUDES STUB POST, BASE PLATES, STIFFENER PLATES, PERFORATED FUSE PLATES, BOLTS, NUTS, AND WASHERS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

MATERIALS SHALL CONFORM TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 506, UNLESS NOTED OTHERWISE.

FABRICATION SHALL CONFORM TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 506.

ALL POST, POST STUBS & ATTACHMENTS SHALL BE ASTM A709 GRADE 50, GALVANIZED IN ACCORDANCE WITH ASTM A123.

THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST, FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.

H.S. BOLTS, WASHERS, & NUTS SHALL BE A325 GALVANIZED.

FOUNDATION MATERIAL PROPERTIES

CONCRETE MASONRY	F'C = 3,500 P.S.I.
BAR STEEL REINFORCEMENT (UNCOATED), GRADE 60	FY = 60,000 P.S.I.

DESIGN DATA

DESIGN CONFORMS TO AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS 1ST EDITION 2015 (WITH 2017 & 2018 INTERIM REVISIONS).

DEAD LOADS (DL):

- STEEL POST SELF WEIGHT
- SIGN PANEL WEIGHT = 3 PSF

WIND LOADS (WL):

WIND LOADS WERE APPLIED TO THE PROJECTED AREAS OF THE SIGN PANELS AND THE STEEL SIGN POSTS.

- BASIC WIND SPEED = 76 MPH
- MEAN RECURRANCE INTERVAL (MRI) = 10 YEARS
- HEIGHT & EXPOSURE FACTOR = 1.00
- DIRECTIONALITY FACTOR = 0.85
- GUST EFFECT FACTOR = 1.14

WIND LOAD CASES:

- WL CASE 1: 1.0 X NORMAL WIND
- WL CASE 2: 1.0 X TRANSVERSE WIND
- WL CASE 3: 0.75 X NORMAL WIND + 0.75 X TRANSVERSE WIND

LOAD COMBINATIONS:

LOAD COMBINATION	TYPE	DL FACTOR	WL FACTOR
STRENGTH I	GRAVITY	1.25	-
EXTREME I	WIND	1.10	1.0
		0.9	1.0
SERVICE I	DEFLECTION	1.0	1.0

FOUNDATION DESIGN DATA

THE FOUNDATION DESIGN ASSUMED COHESIONLESS SOILS (LOOSE SAND) ABOVE THE WATER TABLE WITH THE FOLLOWING PROPERTIES:

- SOIL UNIT WEIGHT = 115 PCF
- ANGLE OF INTERNAL FRICTION = 24 DEGREES
- SOIL MODULUS PARAMETER = 25 LB/IN3

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE BTO TYPE I SIGNS

DRAWN BY | PLANS CK'D.

CONNECTION & FOUNDATION DETAILS 2 OF 2

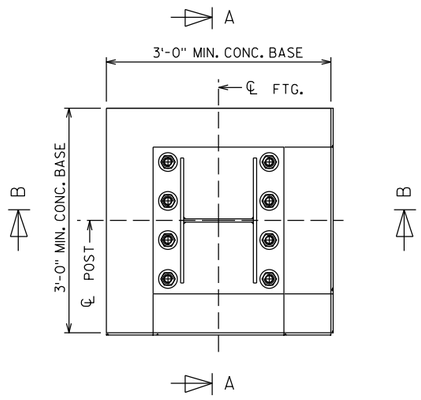
SHEET A3-1.20

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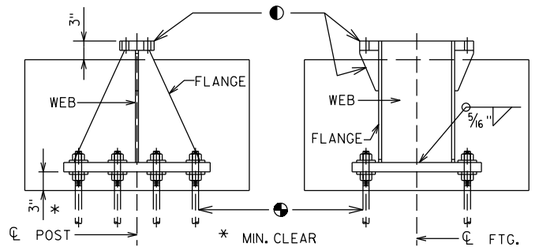
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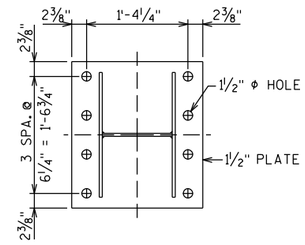
STUB AND ADHESIVE ANCHOR DETAILS



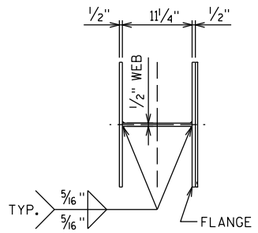
STUB SECTION



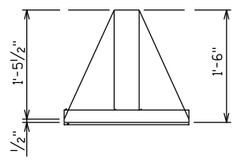
SECTION A-A SECTION B-B



BASE PLATE



STUB



FLANGE

◐ SEE BASE CONNECTION DETAILS ON "CONNECTIONS & FOUNDATION DETAILS" SHEETS.

◔ ADHESIVE ANCHORS 1¼-INCHES. ALLOWABLE PULL OUT CAPACITY = 15 KIPS. EMBED 1'-3" INTO ROCK.

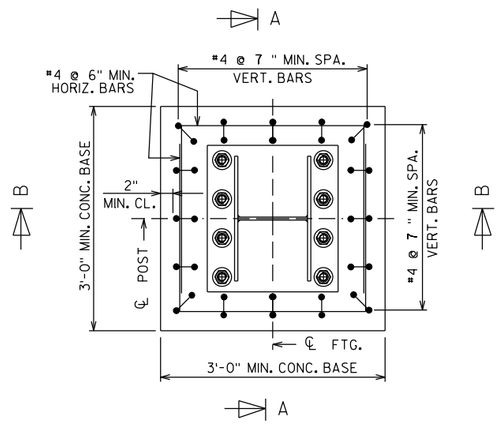
GENERAL NOTES:

QUANTITIES PER BASE:
REINFORCING STEEL = 62 LB
CONCRETE = 0.6 CY
STRUCTURAL STEEL = 335 LB

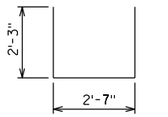
ALL MATERIALS, EXCEPT FOR ANCHOR ROD, NUTS, AND WASHERS, SHALL BE ASTM A709 GRADE 50. ALL MATERIALS TO BE GALVANIZED AFTER FABRICATION.

IF ROCK IS ENCOUNTERED PRIOR TO REACHING THE MINIMUM DRILLED SHAFT EMBEDMENT DEPTH DEFINED ON THE FOUNDATION DATA TABLE OF THE "CONNECTIONS & FOUNDATION DETAILS 2 OF 2" SHEET, THE CONTRACTOR SHALL INSTALL A TEST ADHESIVE ANCHOR AND DETERMINE THE PULL-OUT CAPACITY. IF THE FIELD TEST RESULTS IN A PULL-OUT CAPACITY GREATER THAN OR EQUAL TO 15 KIPS, THE CONTRACTOR MAY INSTALL THE ALTERNATE CONCRETE BASE AND BREAK-WAY STUB PER THE DETAILS ON THIS SHEET.

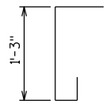
CONCRETE BASE DETAILS



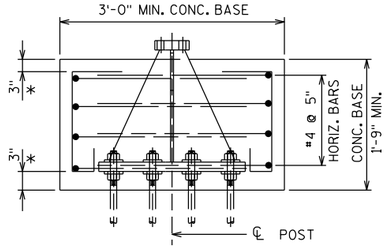
CONCRETE BASE PLAN



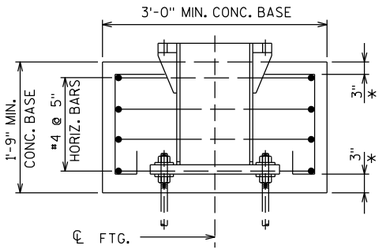
HORIZONTAL BAR
8 BARS @ 6'-11" LENGTH



VERTICAL BARS
16 BARS @ 2'-4" LENGTH
MAY BE PLACED IN SKEW
FOR CLEARANCE NEED



SECTION A-A



SECTION B-B

* MIN. CLEAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE BTO TYPE I SIGNS

DRAWN BY	PLANS CK'D.

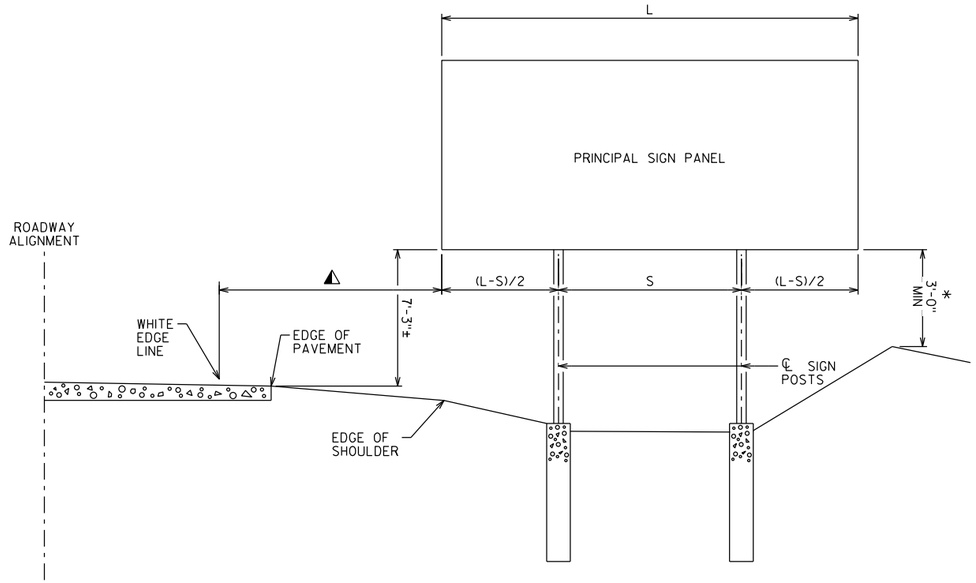
ALTERNATE BREAK-AWAY BASE ON ROCK

SHEET A3-1M.2

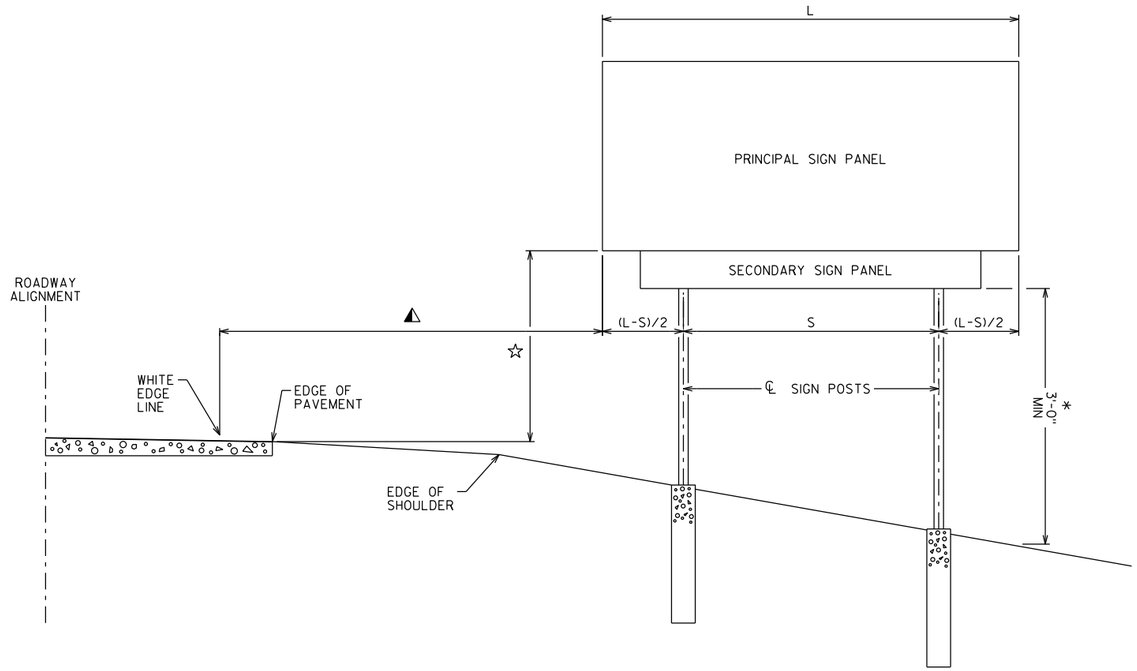
332

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7



INSTALLATION WITHOUT SECONDARY SIGN



INSTALLATION WITH SECONDARY SIGN

TYPE 1 SIGN INSTALLATION NOTES:

FOR A 2-POST INSTALLATION, "S" EQUALS 3L/5, BUT SHALL NOT BE LESS THAN 6'-0".

FOR A 3-POST INSTALLATION, "S" EQUALS 5L/7, BUT SHALL NOT BE LESS THAN 12'-0". THE SPACING BETWEEN ANY TWO POSTS SHALL NOT BE LESS THAN 6'-0".

⚠ UNLESS NOTED IN THE PLANS, THE SIGN OFFSET DISTANCE SHALL BE A MINIMUM OF 17'-6" FROM THE WHITE EDGE LINE, DESIRABLE 30'-0".

THE ± TOLERANCE SHOWN ON THIS SHEETS IS 3".

THE VERTICAL SIGN HEIGHT CLEARANCES SHOWN ON THIS SHEET ARE MEASURED FROM THE BOTTOM OF THE SIGN PANEL TO THE NEAR EDGE OF PAVEMENT.

☆ THE VERTICAL CLEARANCE SHALL BE 8'-3"± WHEN THE SECONDARY SIGN HEIGHT IS 3'-0" OR LESS. FOR SECONDARY SIGN HEIGHTS LARGER THAN 3'-0", THE VERTICAL CLEARANCE TO THE BOTTOM OF THE SECONDARY SIGN PANEL SHALL BE 5'-3"±.

* THE VERTICAL SIGN GROUND CLEARANCE ON RIGHT END OF SIGN SHALL BE A MINIMUM OF 3'-0"±.

POST LENGTHS SHOWN IN THE MISCELLANEOUS QUANTITIES ARE ESTIMATED LENGTHS. THE CONTRACTOR SHALL VERIFY POST LENGTHS AT THE TIME OF FINAL GRADING.

REFER TO THE TRAFFIC ENGINEERING OPERATIONS AND SAFETY MANUAL FOR FURTHER GUIDANCE ON MINIMUM VERTICAL CLEARANCE REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE BTO TYPE I SIGNS

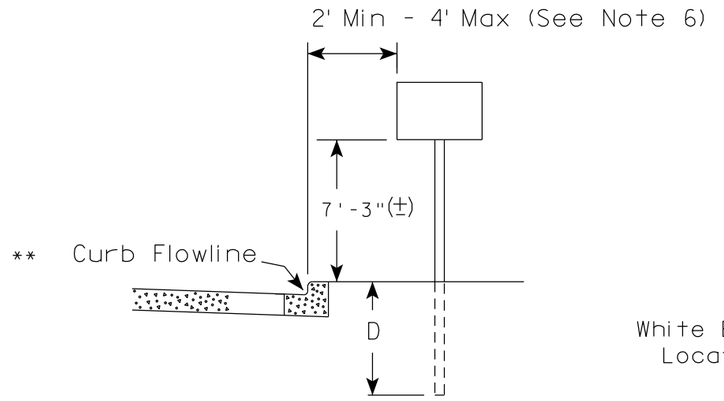
DRAWN BY | PLANS CK'D.

TYPICAL TYPE I SIGN INSTALLATION

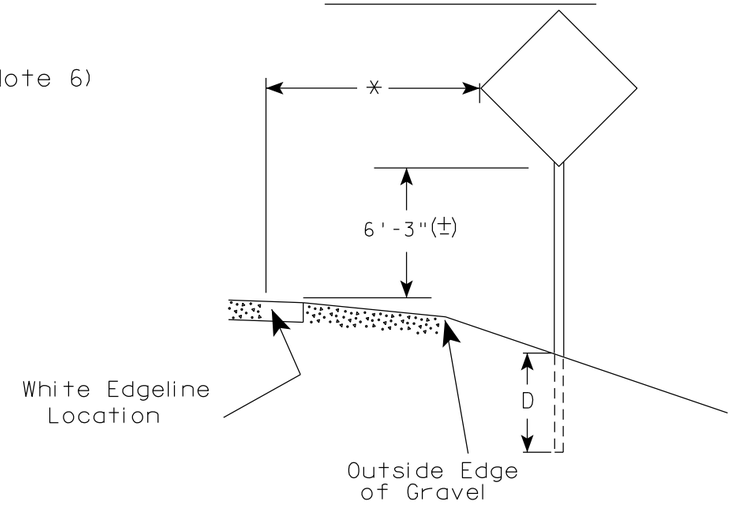
SHEET A4-1.10

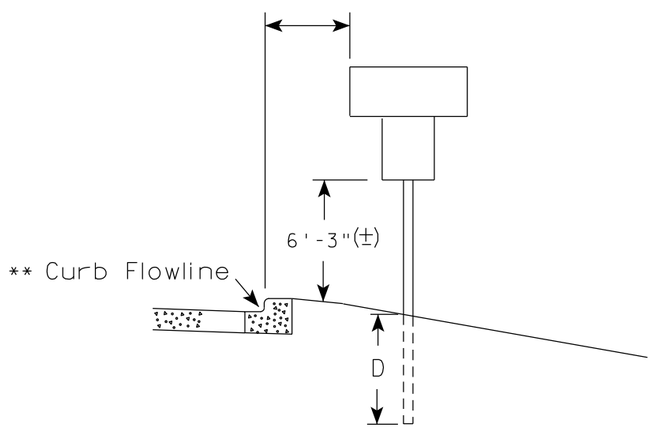
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 333 | E

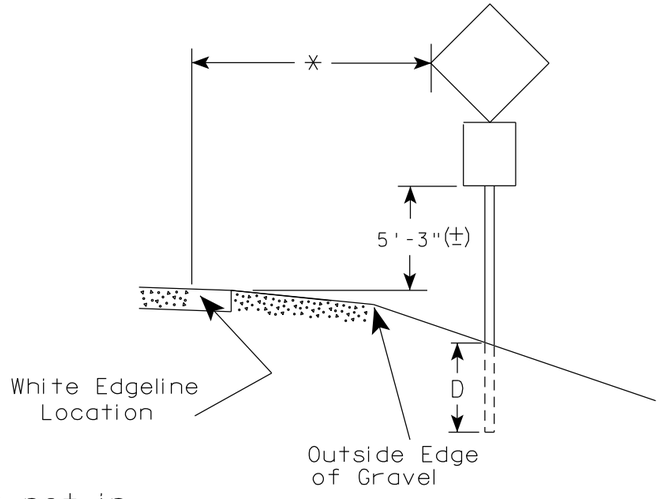
URBAN AREA



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

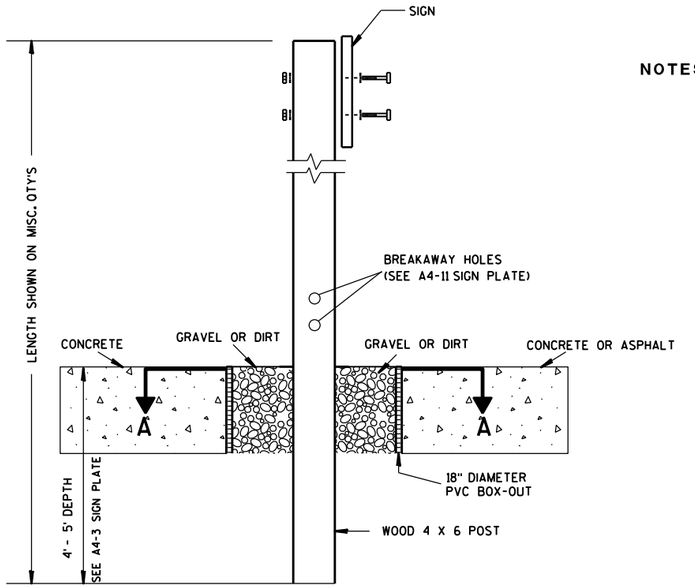
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

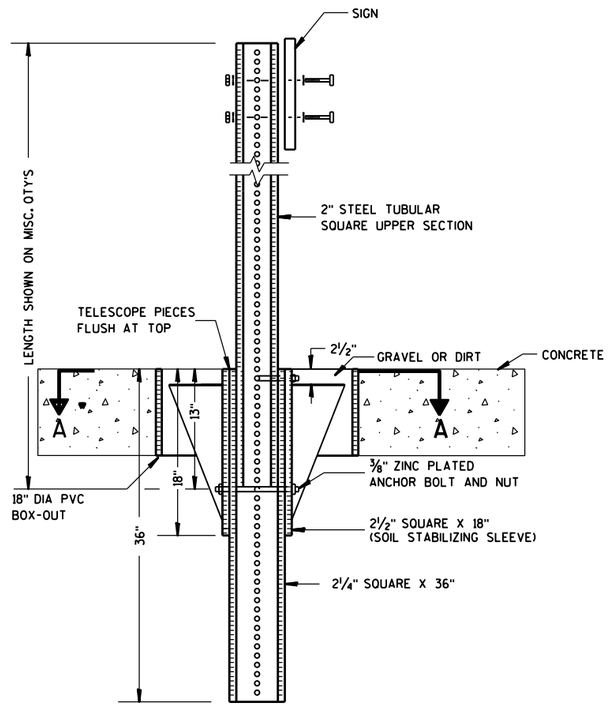
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 334	E



ELEVATION VIEW

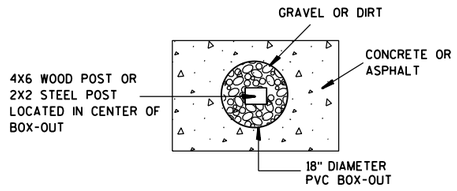
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

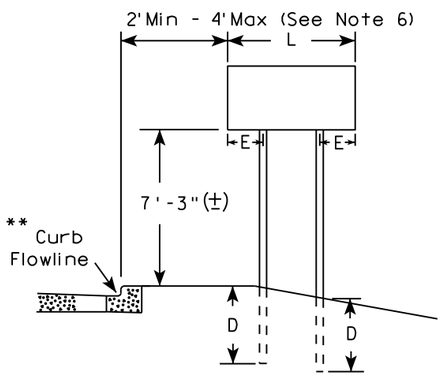
335

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

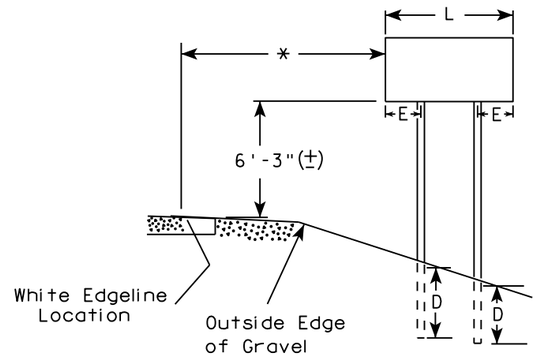
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

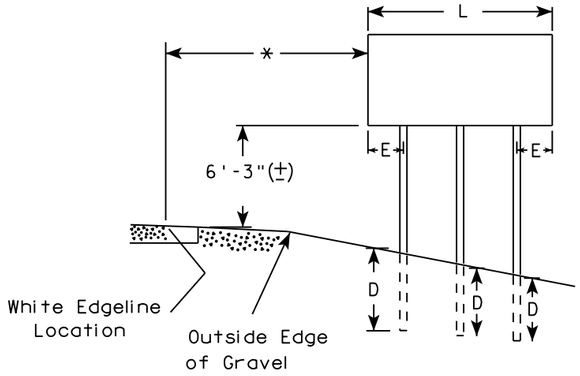
WISDOT/CADDS SHEET 42

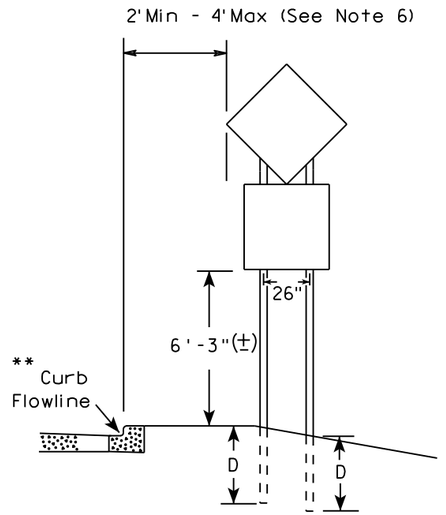
URBAN AREA



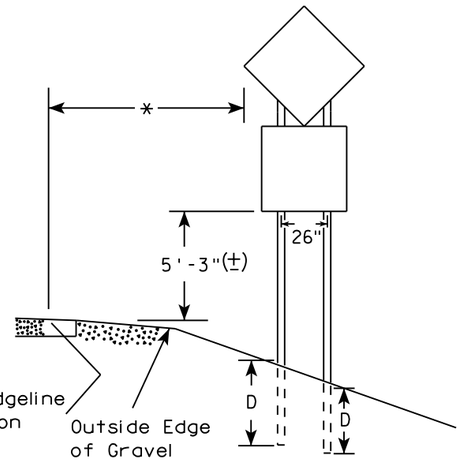
RURAL AREA (See Note 3)







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" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

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

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

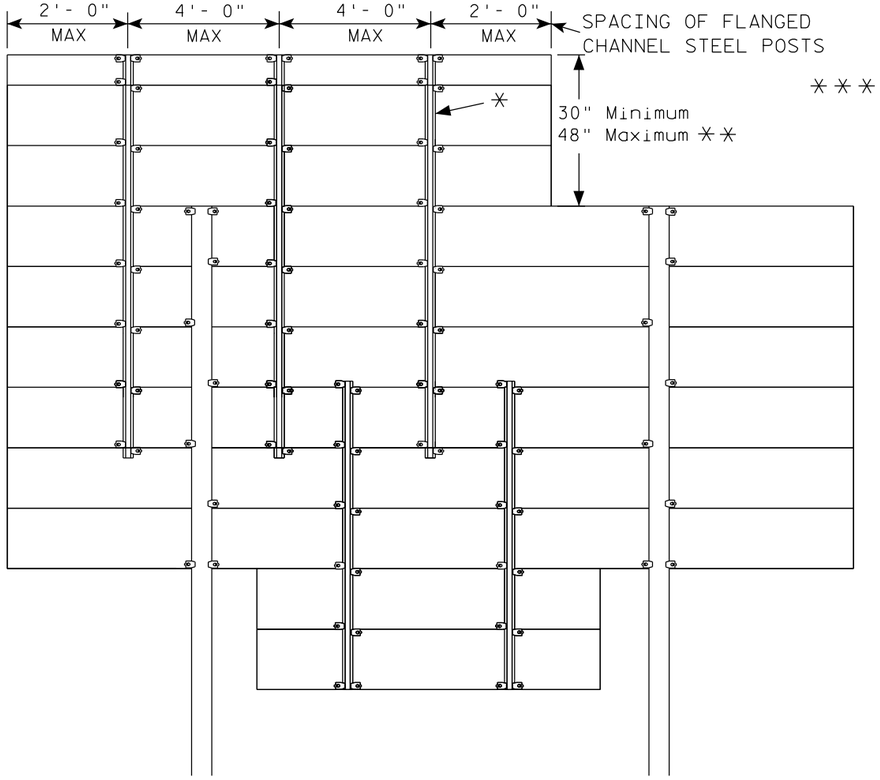
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 336	E

GROUND MOUNTED SIGN



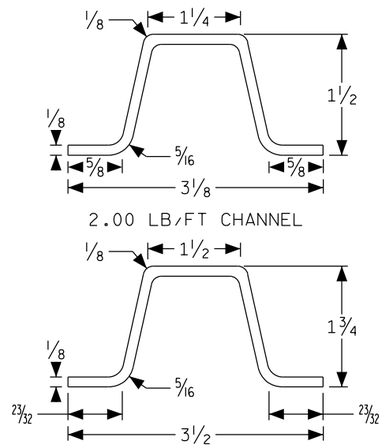
✳=2.00 lb/ft AND 4.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

✳✳=FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

✳✳✳ THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 15 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 15 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAILS

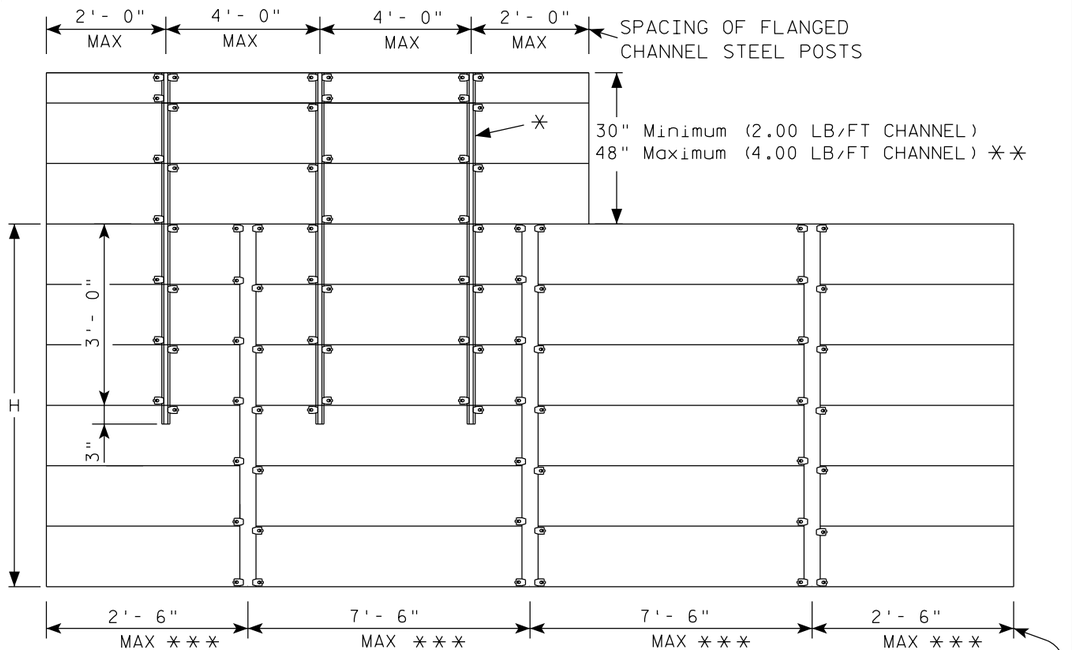
NOT TO SCALE



2.00 LB/FT CHANNEL

4.00 LB/FT CHANNEL

SIGN BRIDGE MOUNTED SIGN



SPACING OF ALUMINUM SIGN SUPPORTS
5" X 3.5" X 3.7 LBS./ft.

GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

   PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
   PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS
   PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

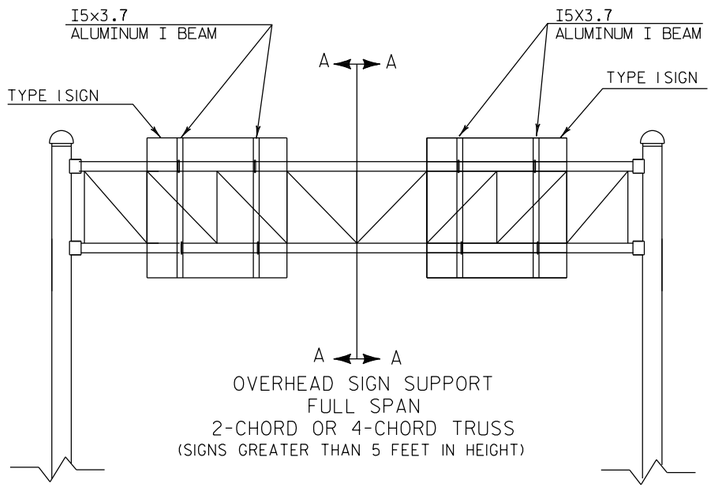
   If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.
3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)
6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

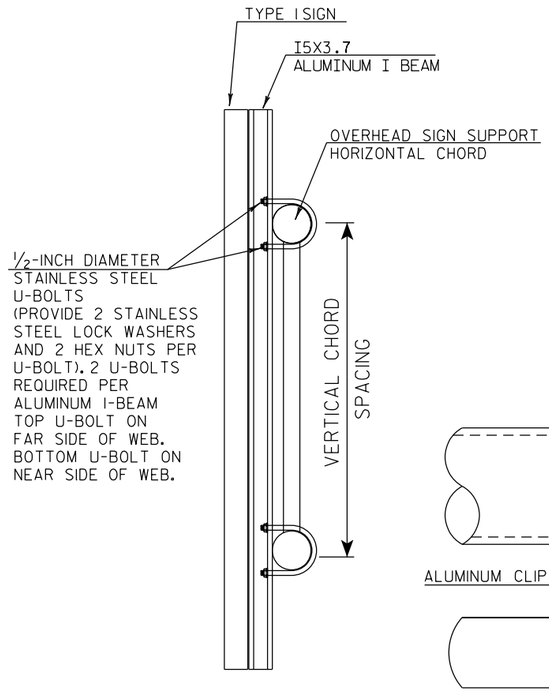
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

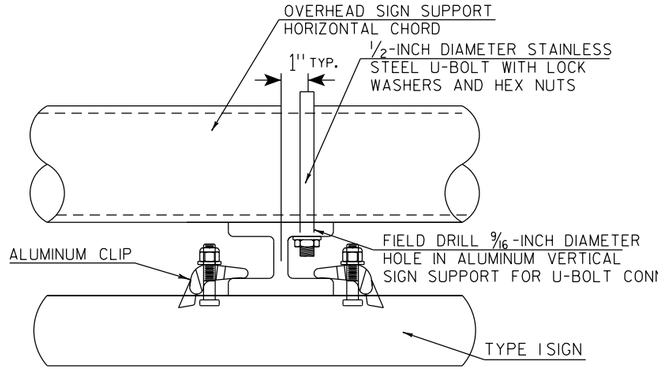
DATE 1/07/20 PLATE NO. A4-6.12



OVERHEAD SIGN SUPPORT
FULL SPAN
2-CHORD OR 4-CHORD TRUSS
(SIGNS GREATER THAN 5 FEET IN HEIGHT)



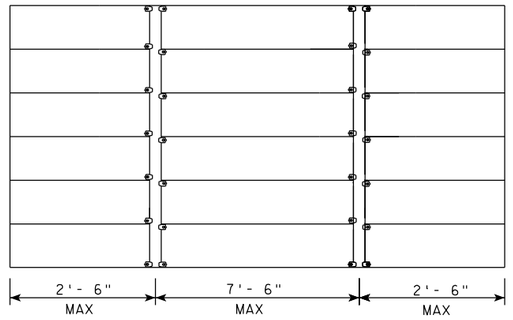
CUT SECTION A-A



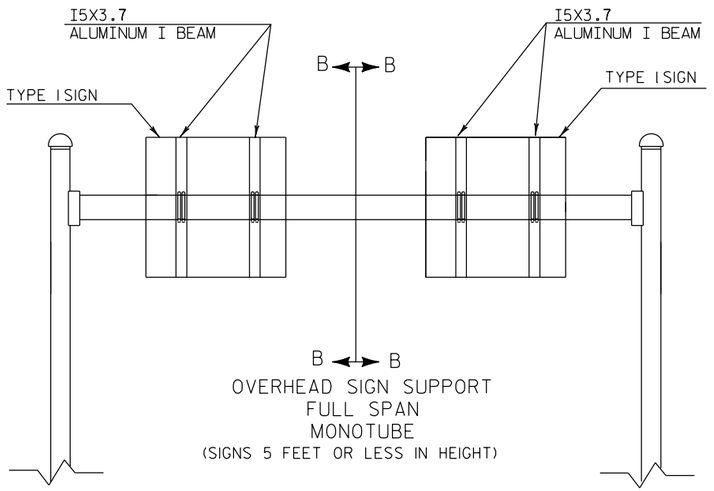
TYPICAL SIGN CONNECTION FOR
2-CHORD OR 4-CHORD TRUSS
PLAN VIEW

GENERAL NOTES

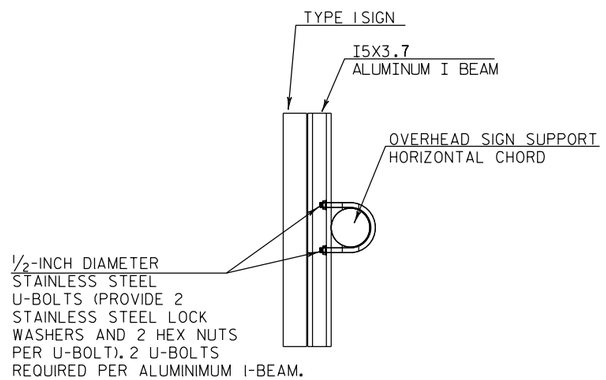
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. MINIMUM NUMBER OF BRACKETS PER SIGN IS TWO. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.
9. SLOTTED HOLES IN I-BEAMS ARE NOT ALLOWED



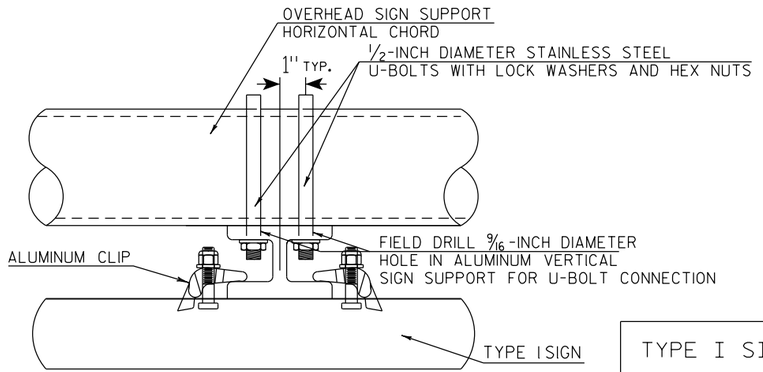
SPACING OF I5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



OVERHEAD SIGN SUPPORT
FULL SPAN
MONOTUBE
(SIGNS 5 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
MONOTUBE
PLAN VIEW

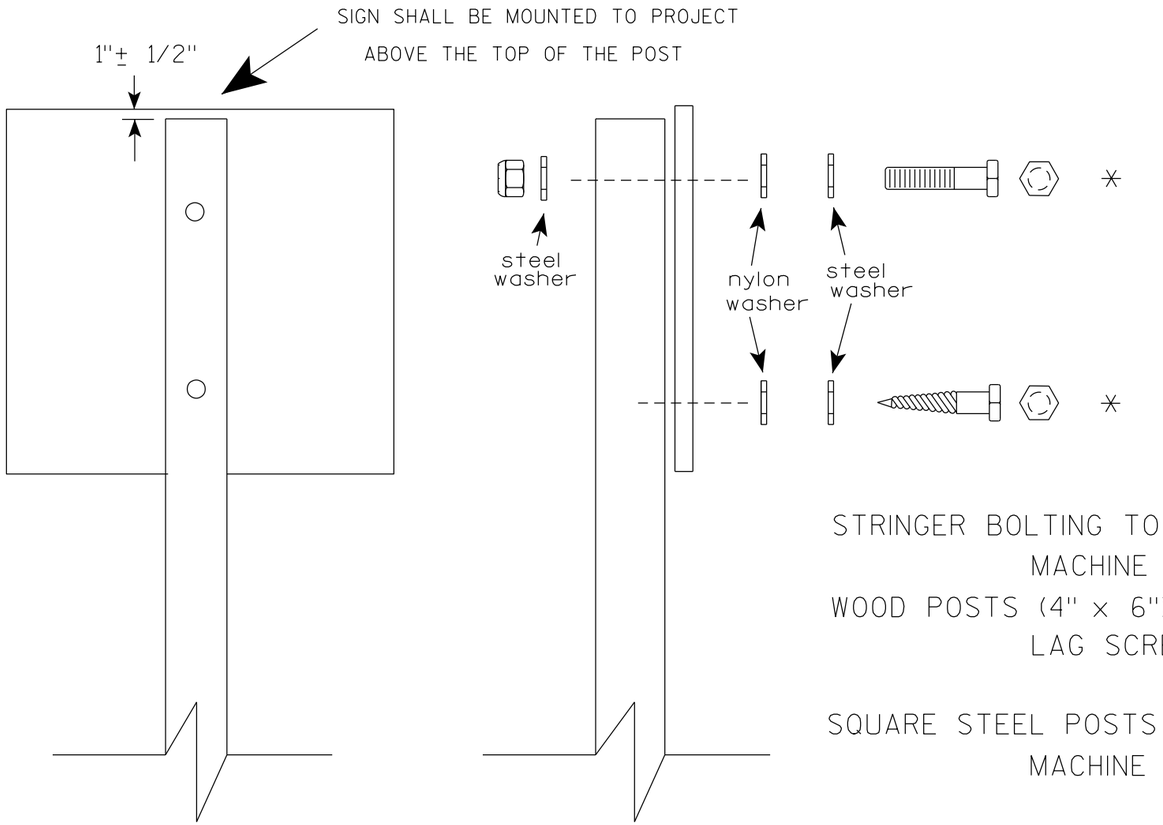
TYPE I SIGN CONNECTION
TO OVERHEAD SIGN SUPPORT

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
State Traffic Engineer

DATE 1/07/20 PLATE NO. A4-7A.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 338	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

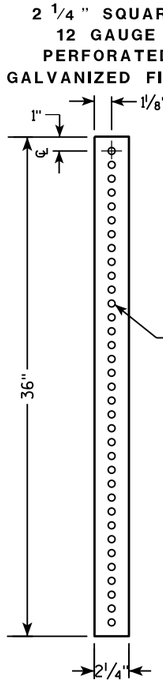
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

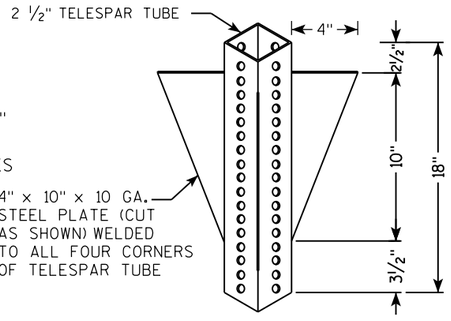
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

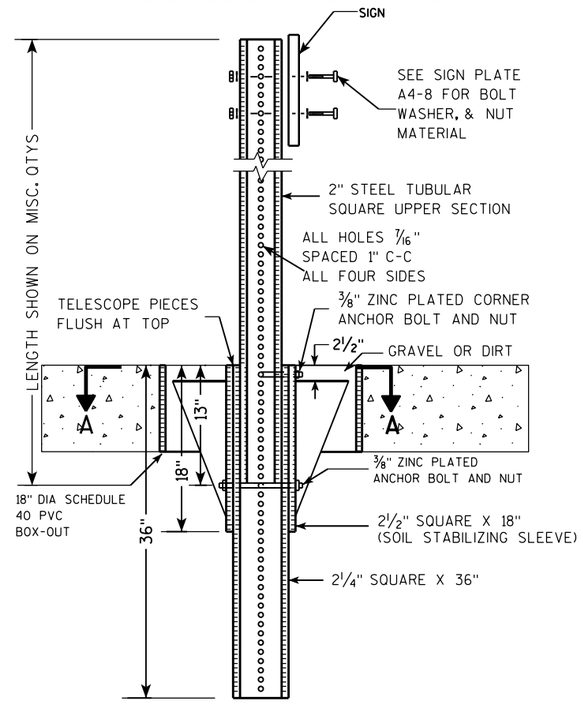
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



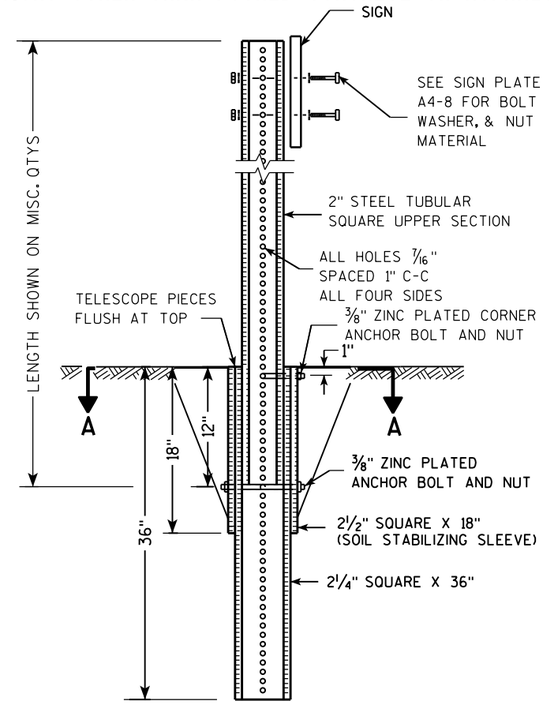
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

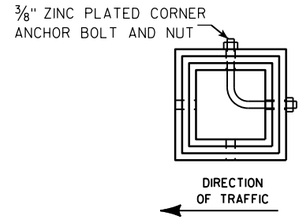


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

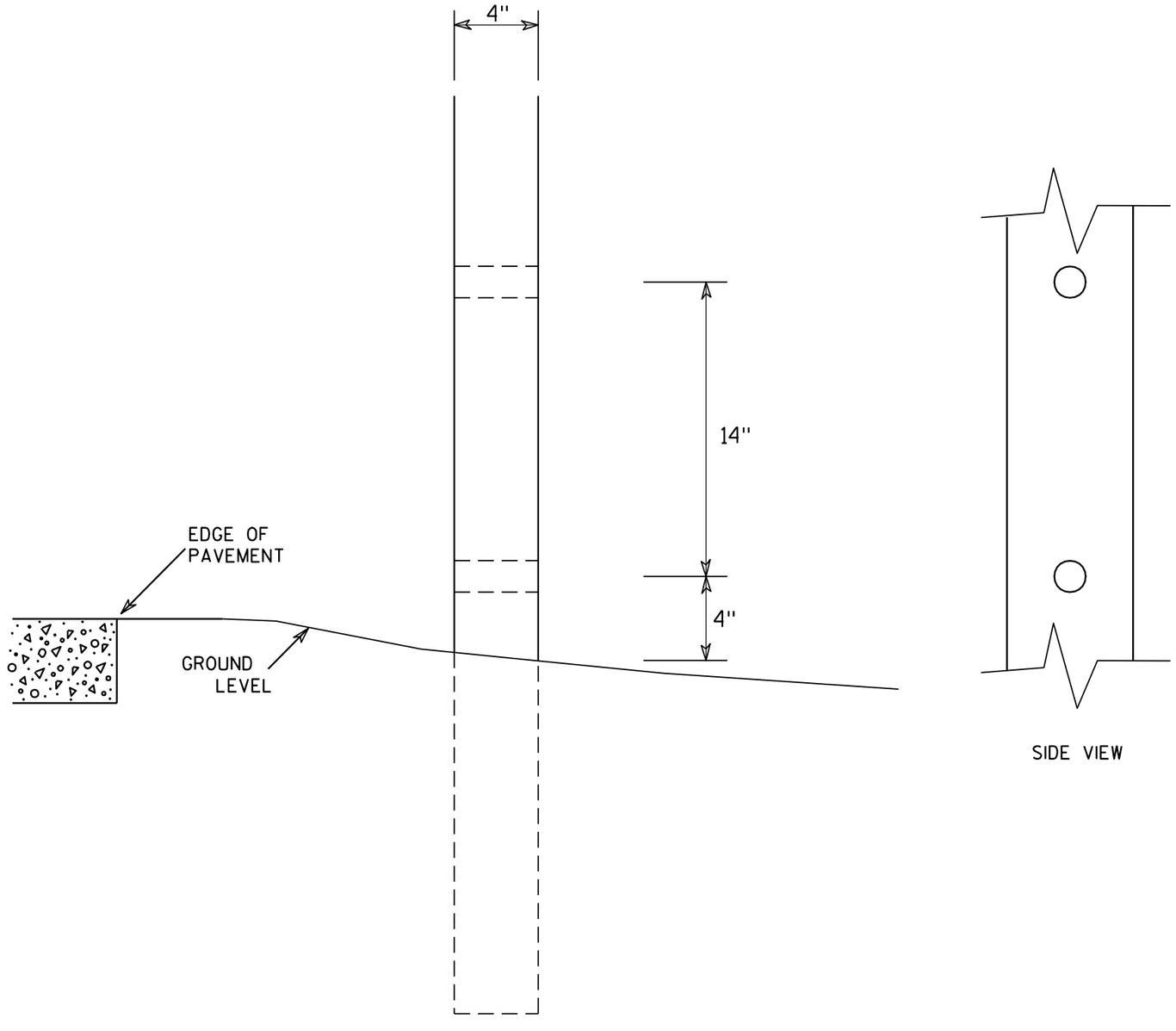
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 340 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.

4 X 6 WOOD POST MODIFICATIONS

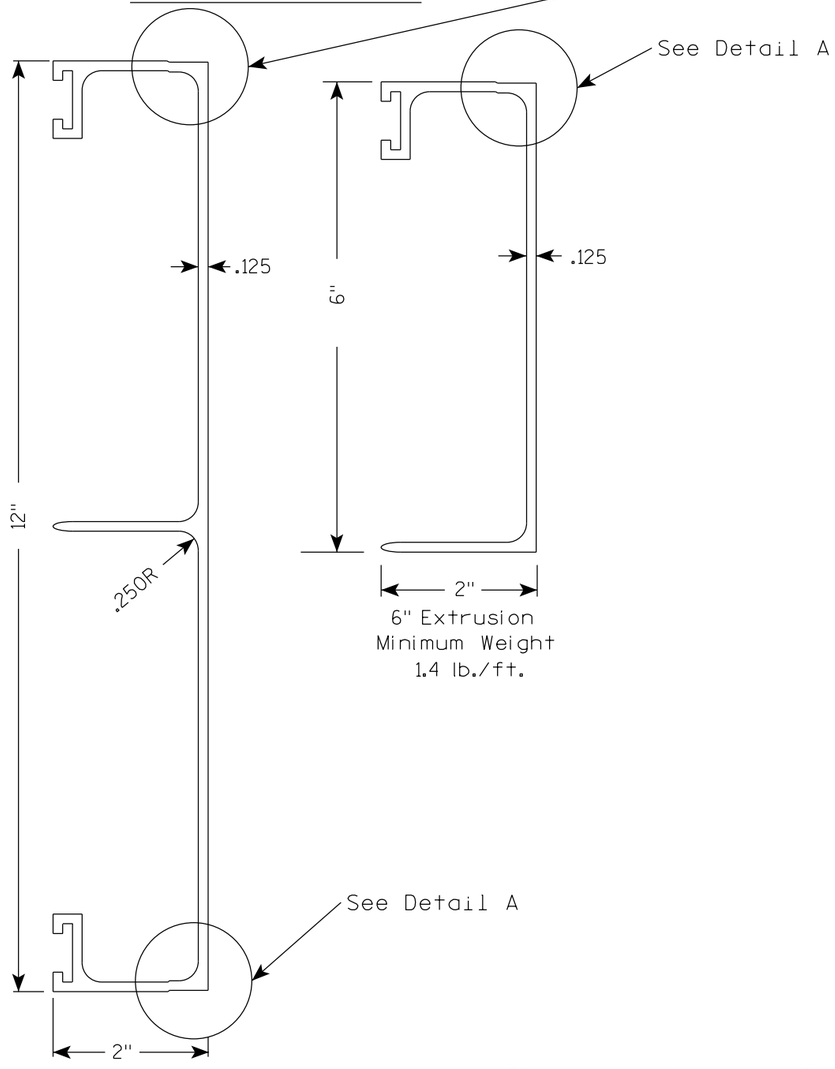
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 341	E

Extruded Shape

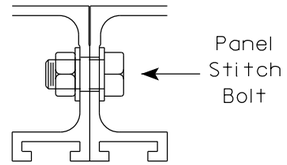


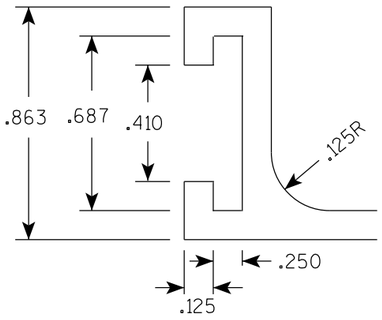
Hardware

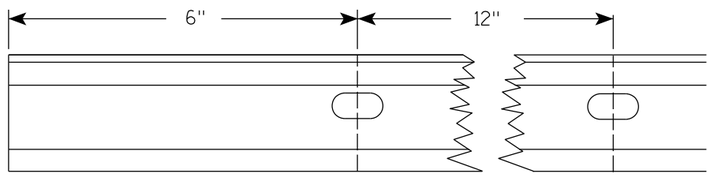
STITCH BOLT, WASHER & NUT

The hardware includes:

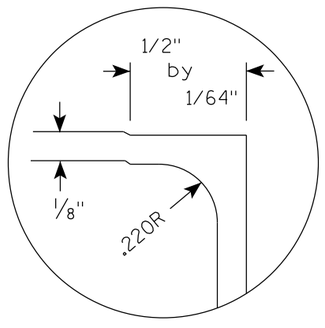
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy







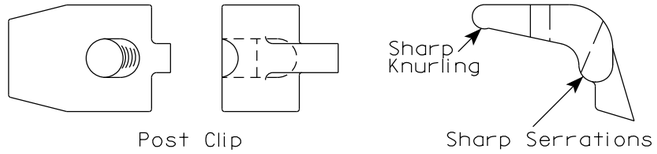
Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

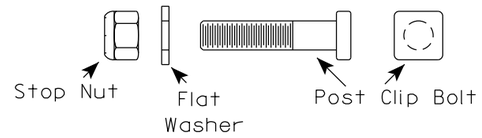


DETAIL A (EDGE WRAP JOINT)

POST CLIP, POST CLIP BOLT, WASHER & NUT

Post Clip shall be Alum. Alloy 356-T6
Post Clip Bolt shall be Stainless Steel.
Flat washer shall be 3/8" X .091, Stainless Steel.
Stop nut shall be stainless steel.





NOTES

1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
3. Post Clips shall be used to attach the sign panel to the sign support.
4. Edge wrapping of sign sheeting required on all extrusions joints shown in Detail A.

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

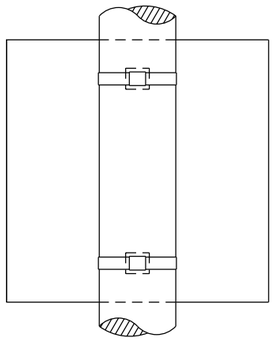
DATE 1/07/20 PLATE NO. A5-2.10

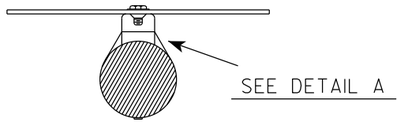
PROJECT NO:

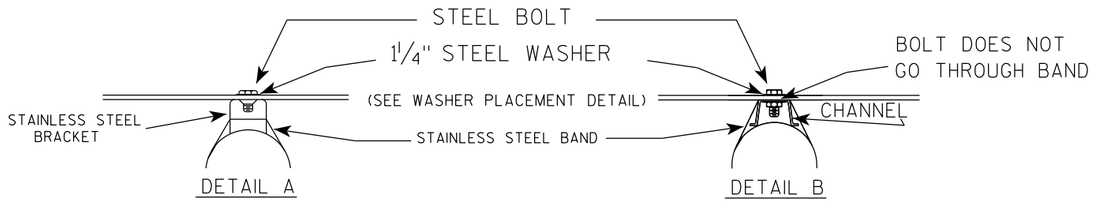
SHEET NO: 342 E

BANDING

SINGLE SIGN



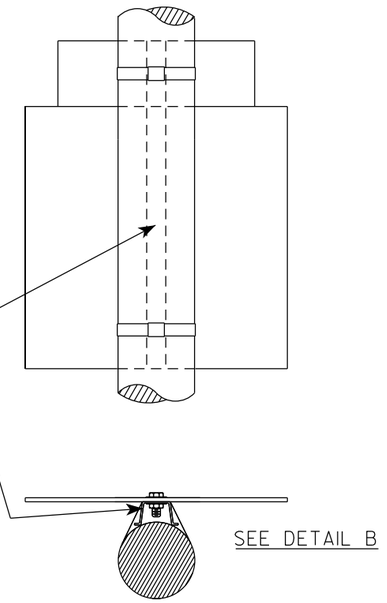




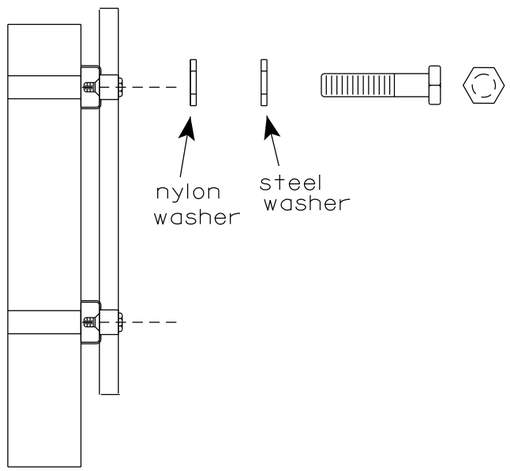
GENERAL NOTES

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



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

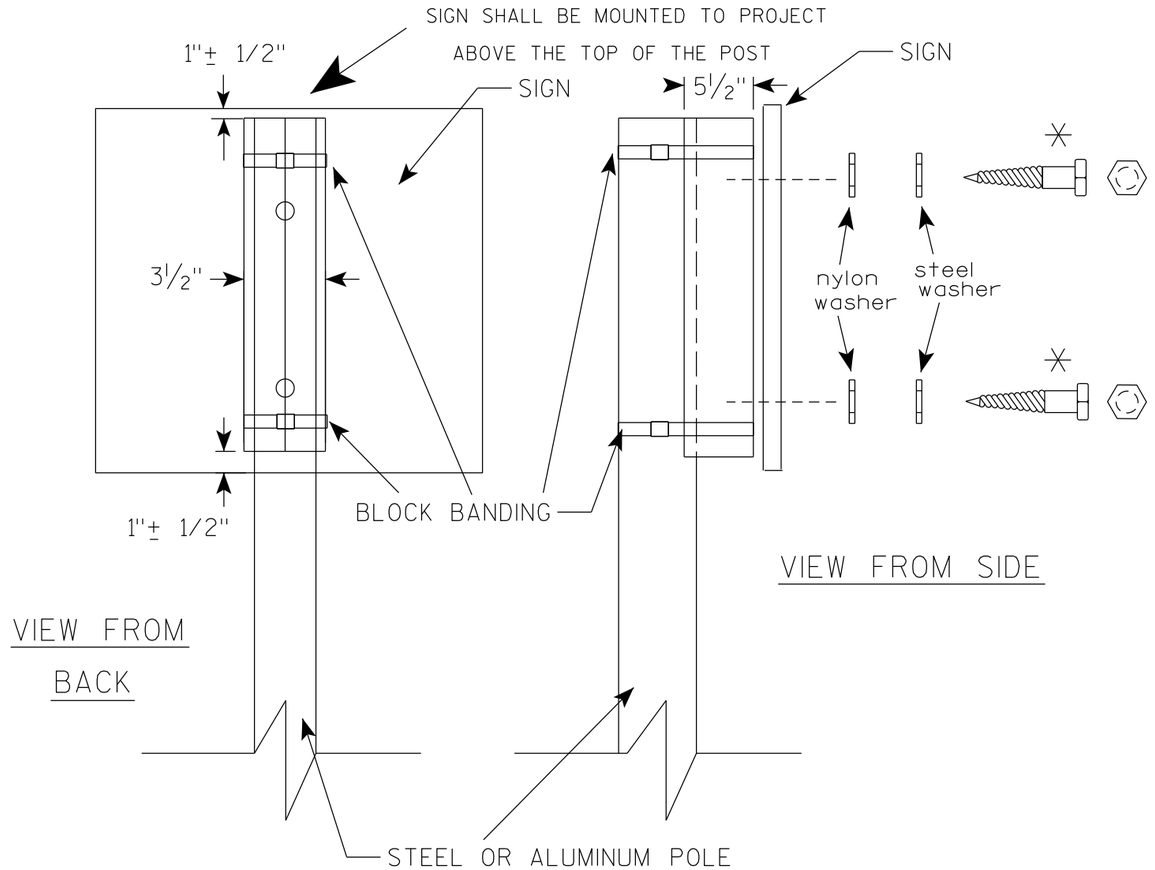
DATE 6/10/19 PLATE NO. A5-9.4

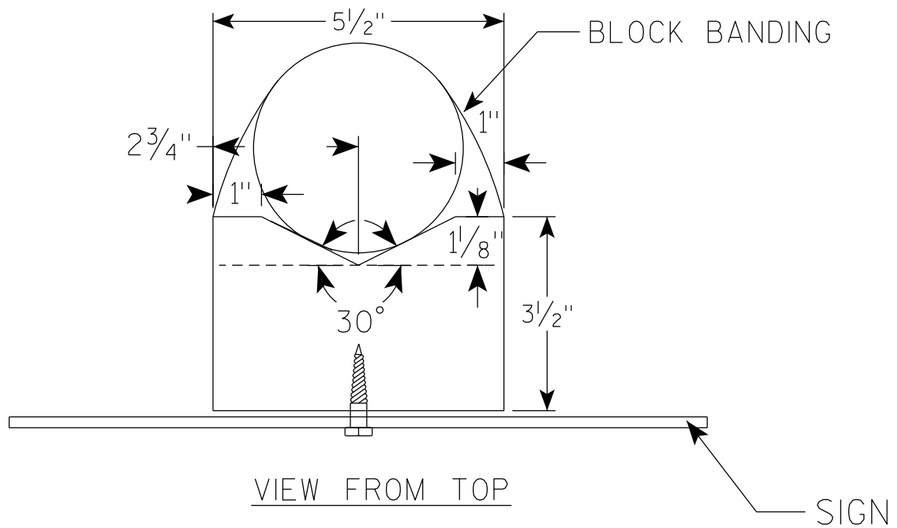
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 343	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





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"

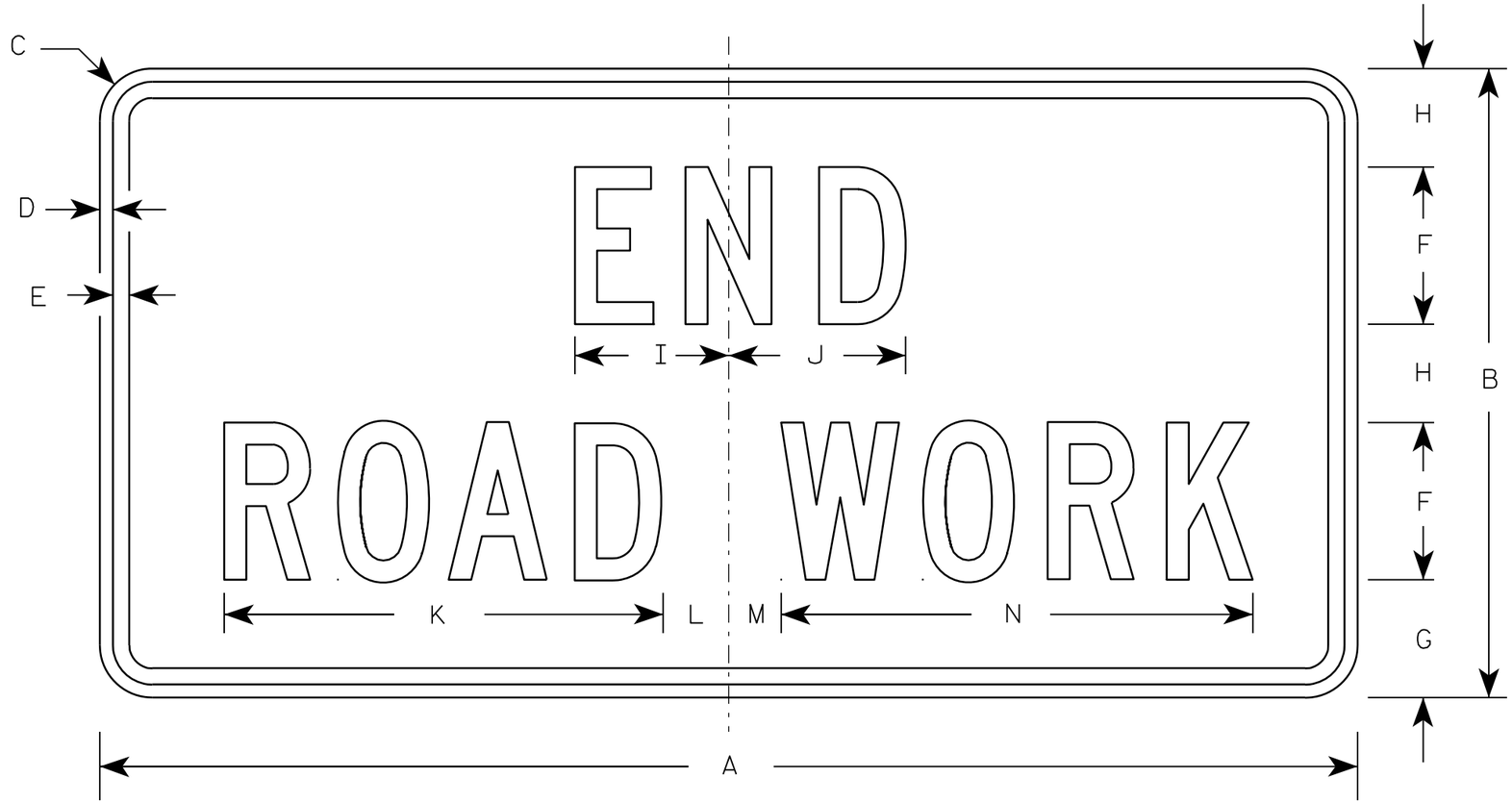
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO:				SHEET NO: 344	E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

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.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	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	0.72
4	48	24	1 1/2	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	0.72
5	48	24	1 1/2	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	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

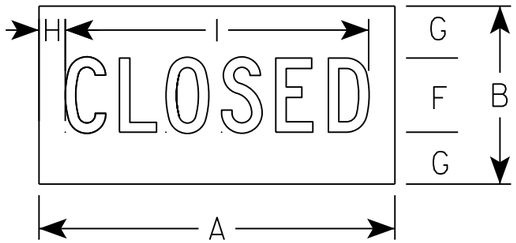
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 345	E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Material shall be .040 aluminmum



G20-62

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																											
3																											
4	48	24				10	7	3 1/2	40 7/8																		8.0
5																											

STANDARD SIGN
G20-62

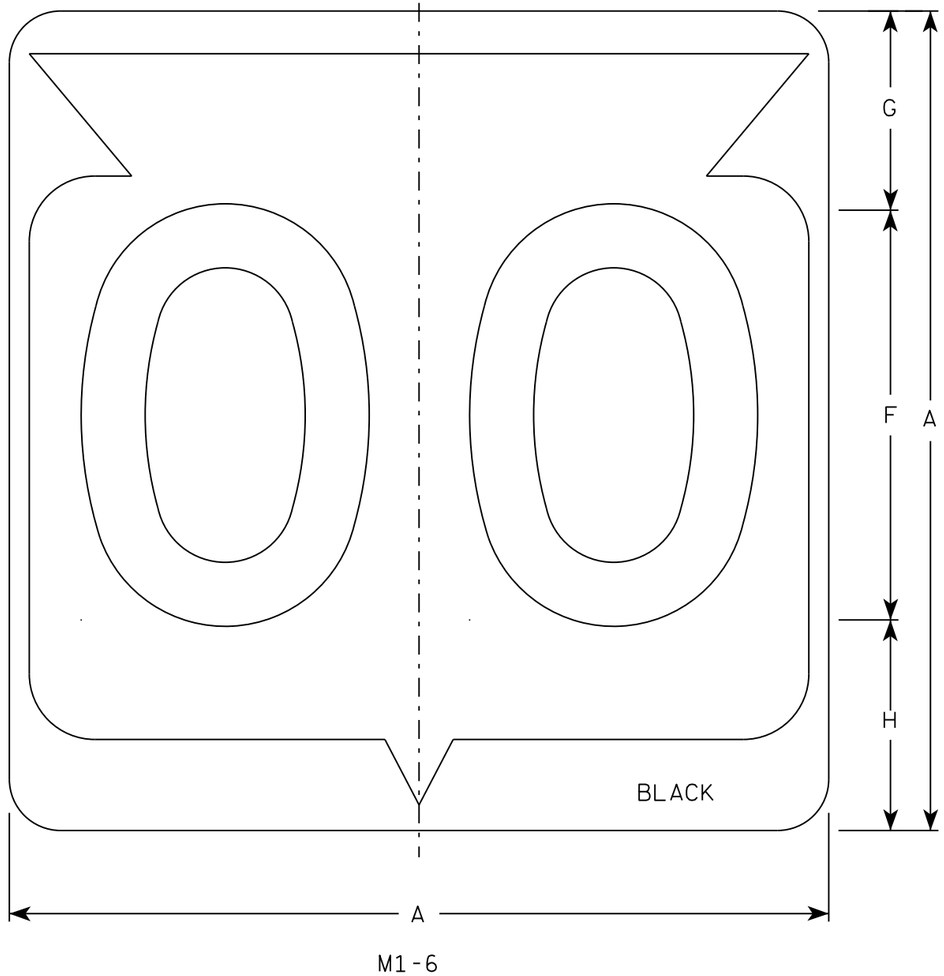
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/24/15 PLATE NO G20-62.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

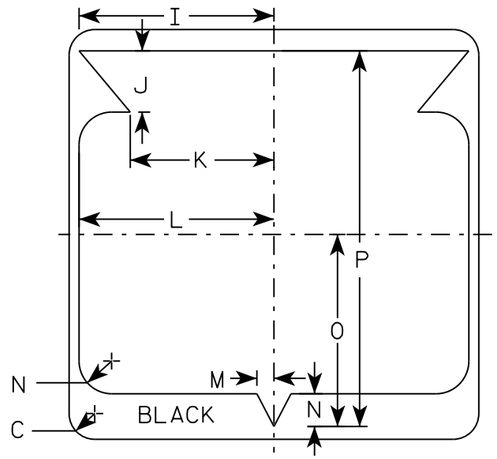
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G2062.DGN PLOT DATE : 01-DEC-2015 17:53 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 20.431338:1.000000



M1-6

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
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		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

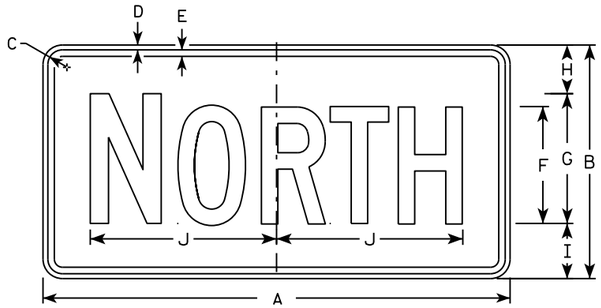
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

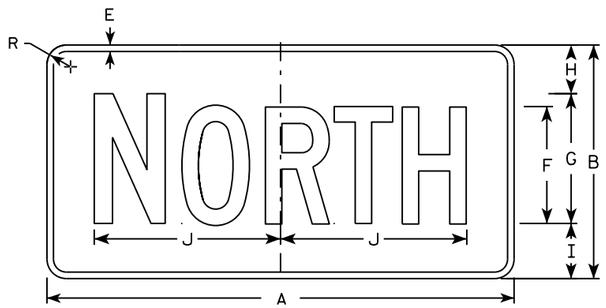
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 347	E



M3-1
MM3-1
MP3-1



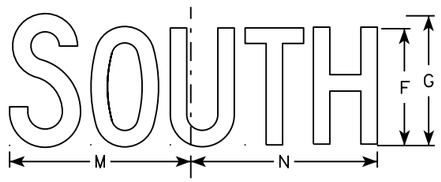
MB3-1
MK3-1
MN3-1



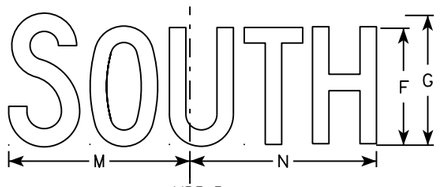
M3-2
MM3-2
MP3-2



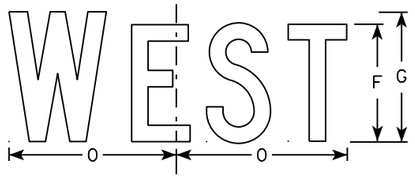
MB3-2
MK3-2
MN3-2



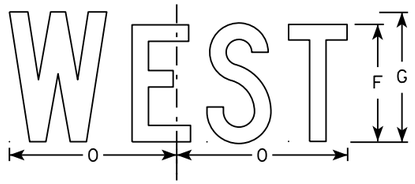
M3-3
MM3-3
MP3-3



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
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																											
2	24	12	1 1/8	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			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

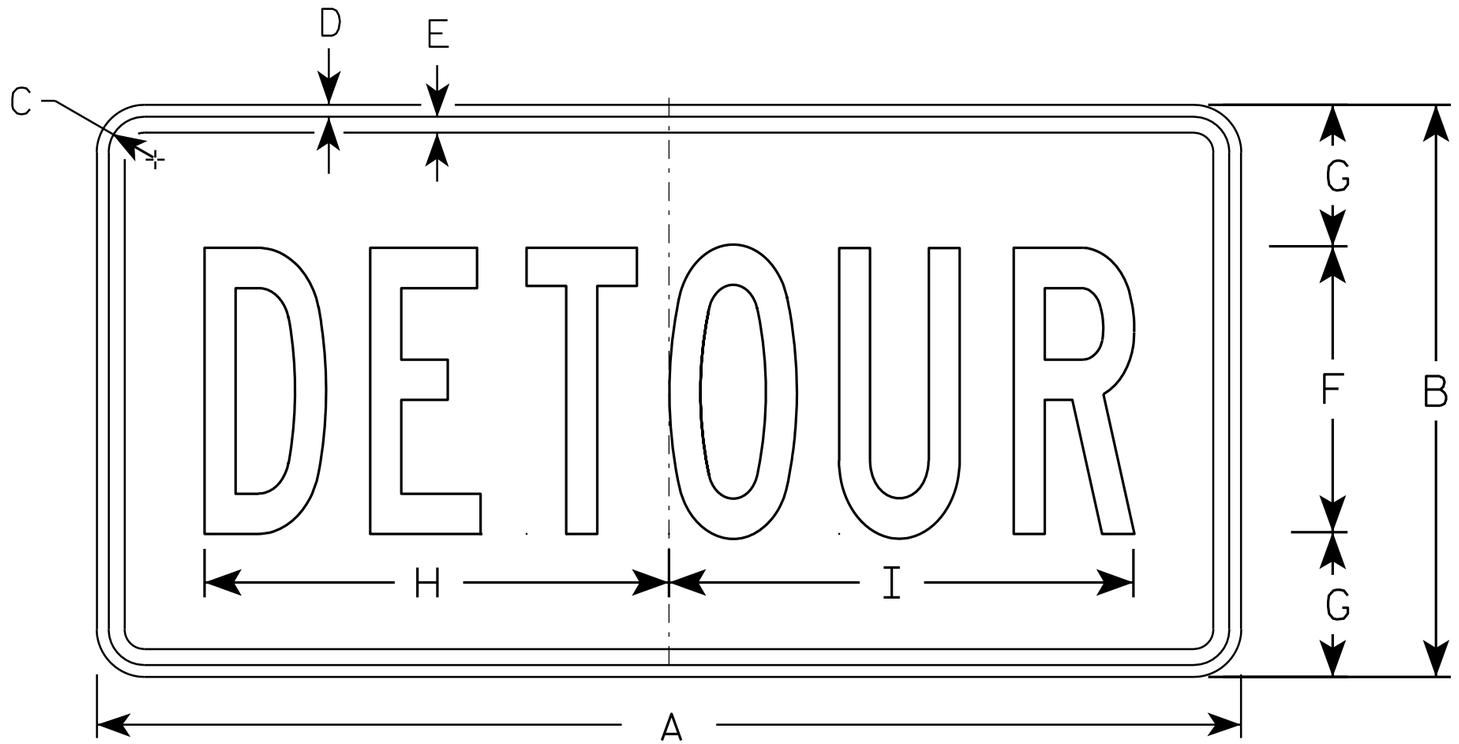
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

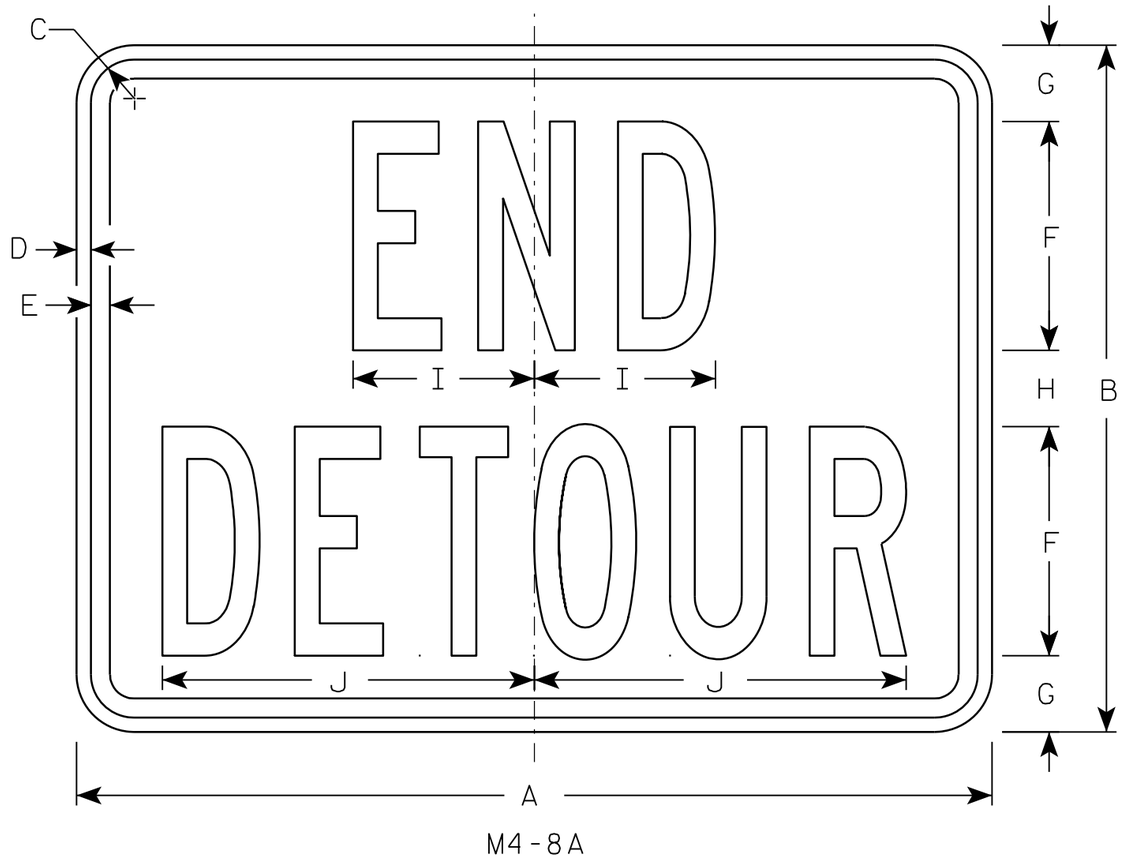
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 349	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

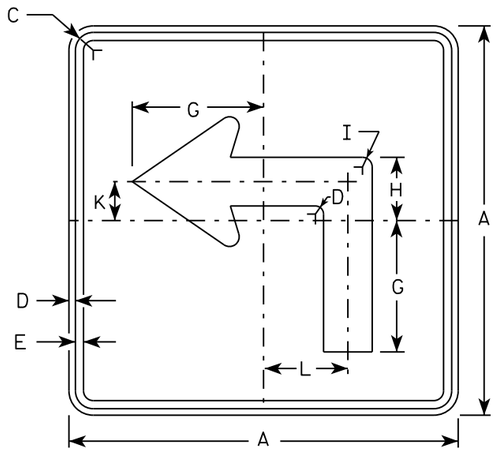
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

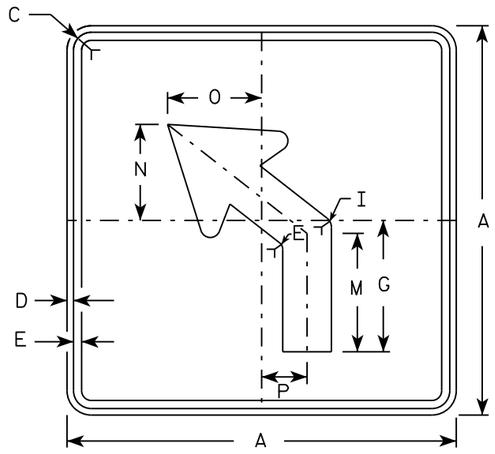
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

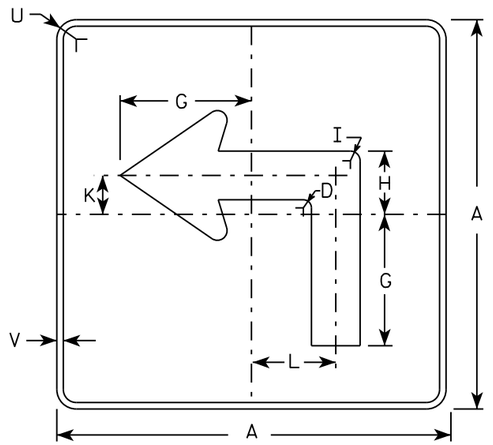
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 350	E



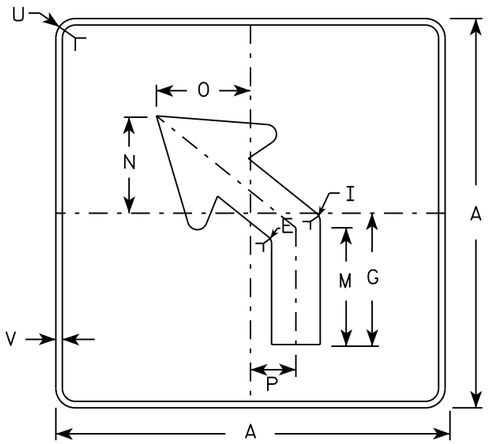
M5-1L
MM5-1L
MO5-1L
MP5-1L



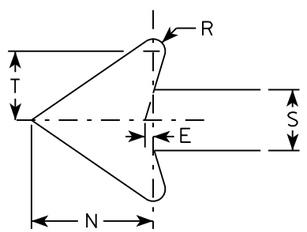
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



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. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

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	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

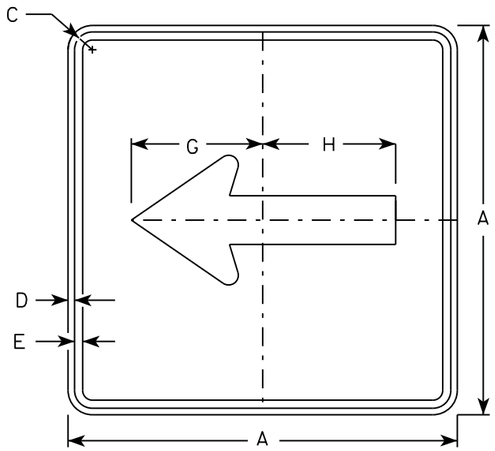
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

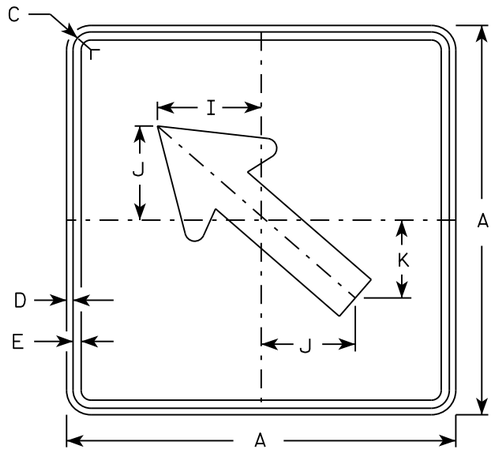
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



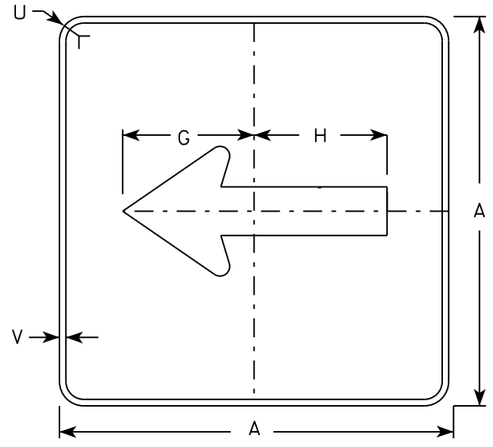
M6-1
MM6-1
MO6-1
MP6-1



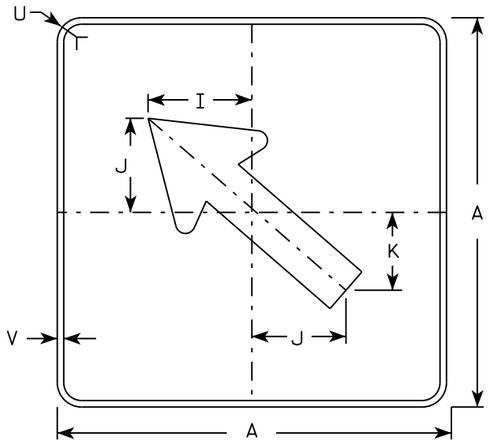
M6-2
MM6-2
MO6-2
MP6-2

NOTES

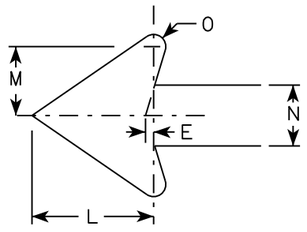
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



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	21		1 1/8	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 1/2	1/2						3.06
3	30		1 3/8	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 7/8	1/2						6.25
4	30		1 3/8	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 7/8	1/2						6.25
5	30		1 3/8	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 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

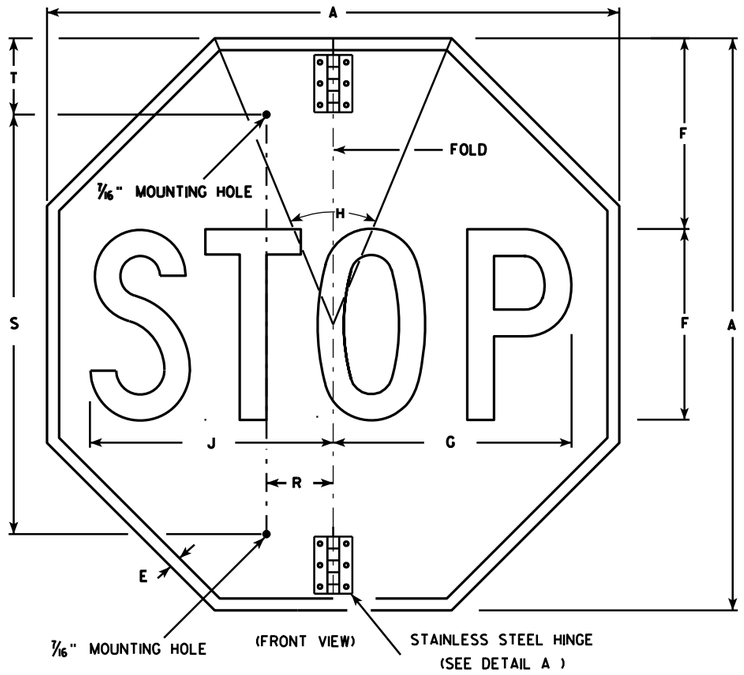
WISCONSIN DEPT OF TRANSPORTATION

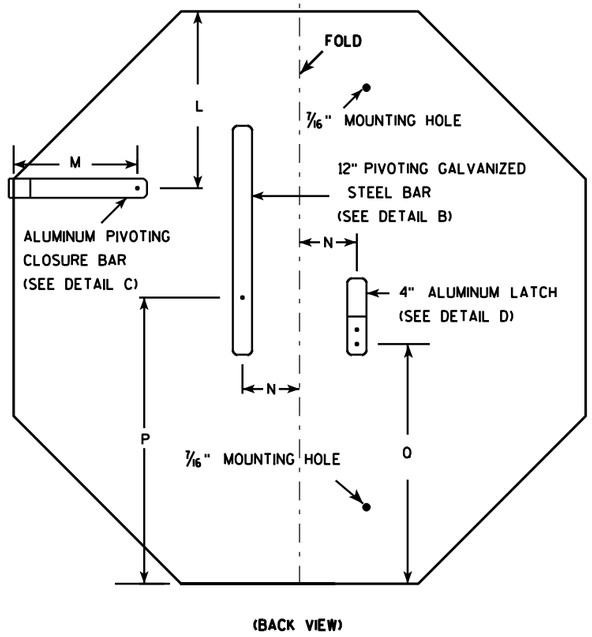
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 352 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

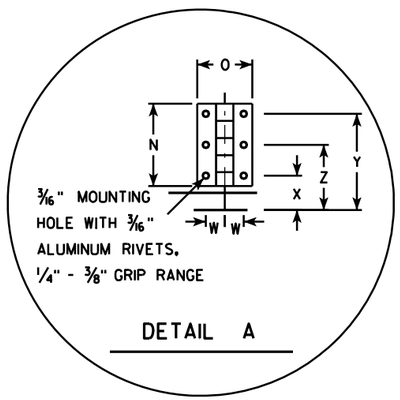
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



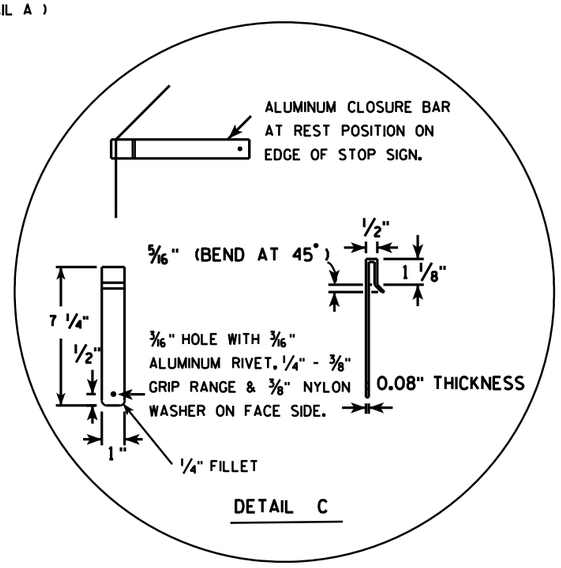


NOTES

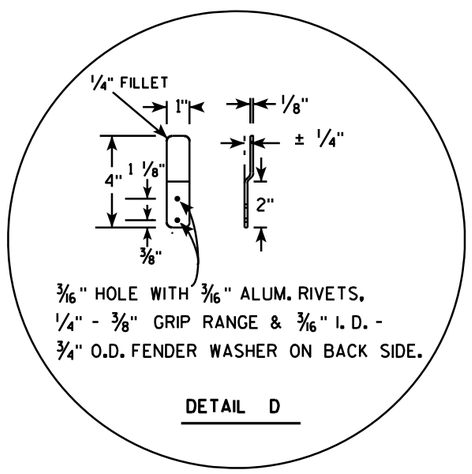
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



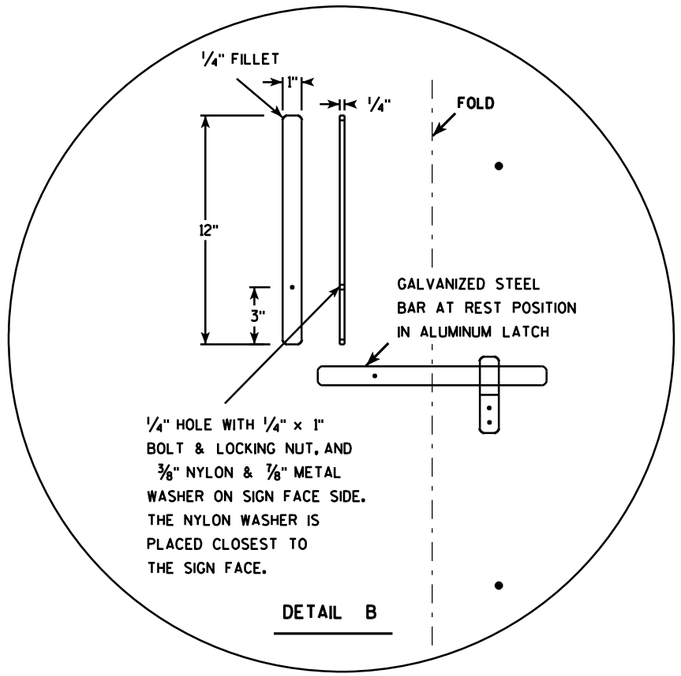
DETAIL A



DETAIL C



DETAIL D



DETAIL B

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																											

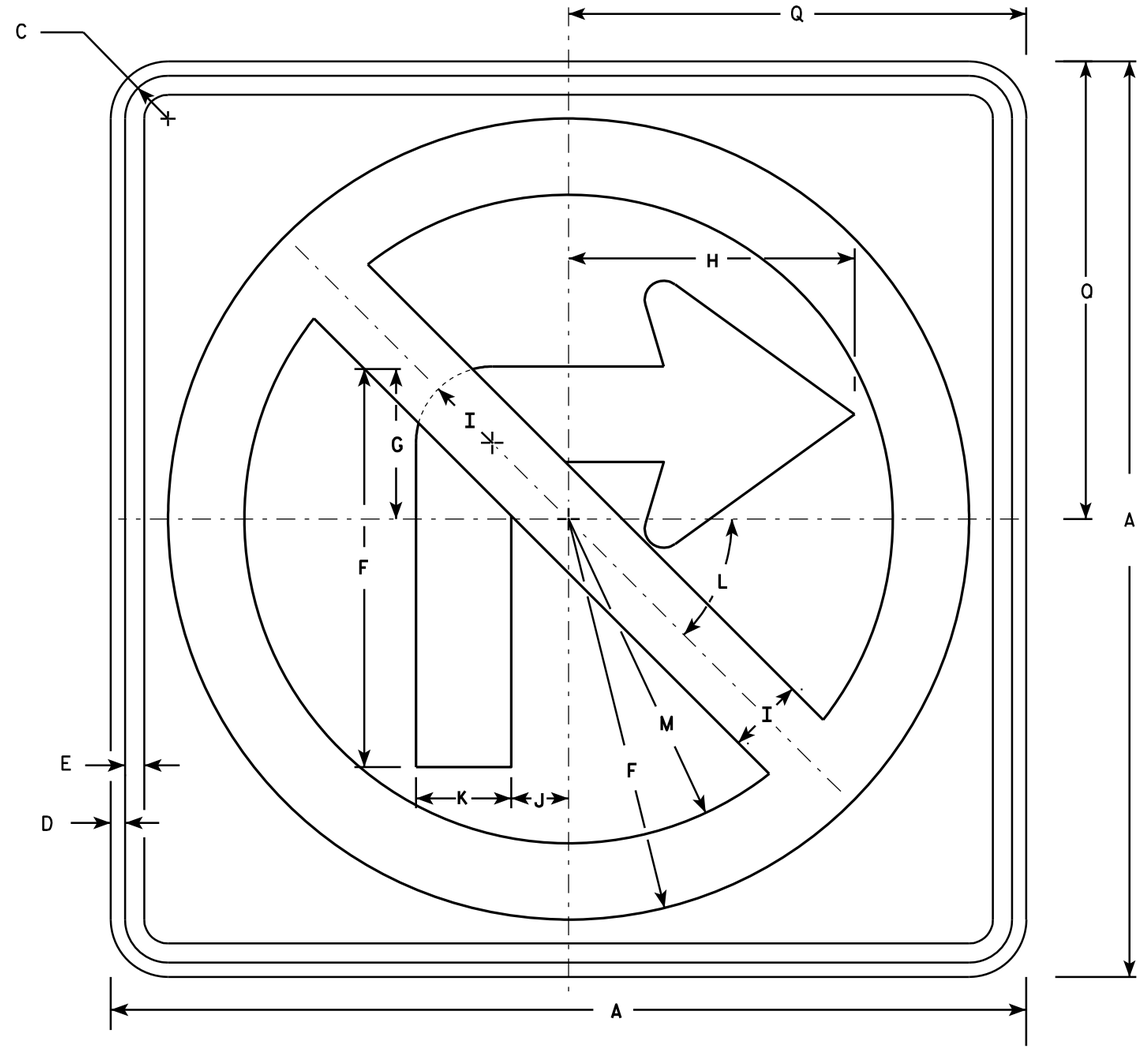
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

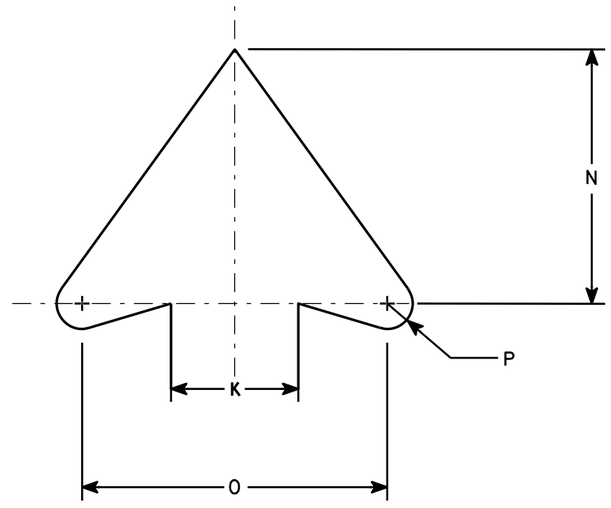
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 353 | E



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	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 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

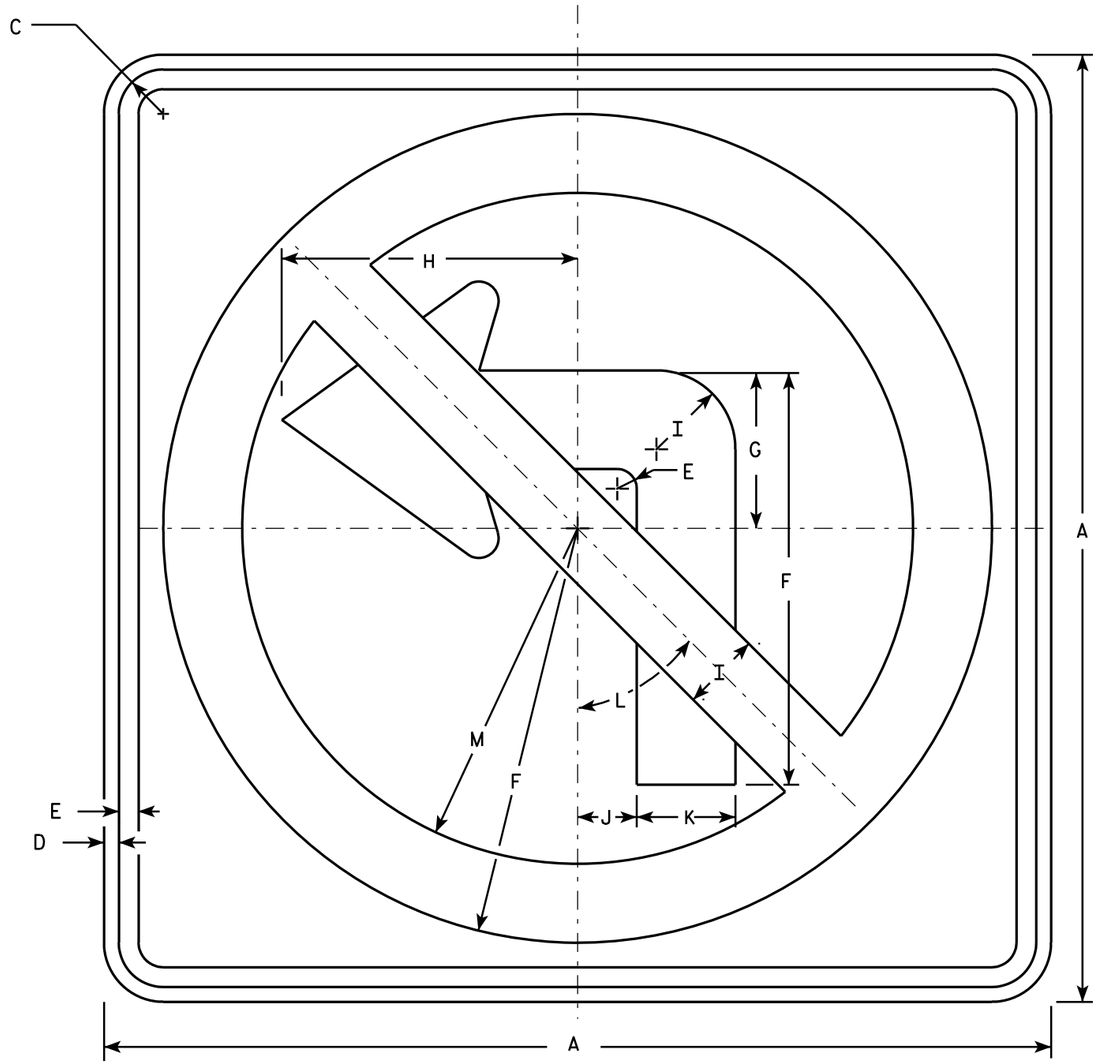
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

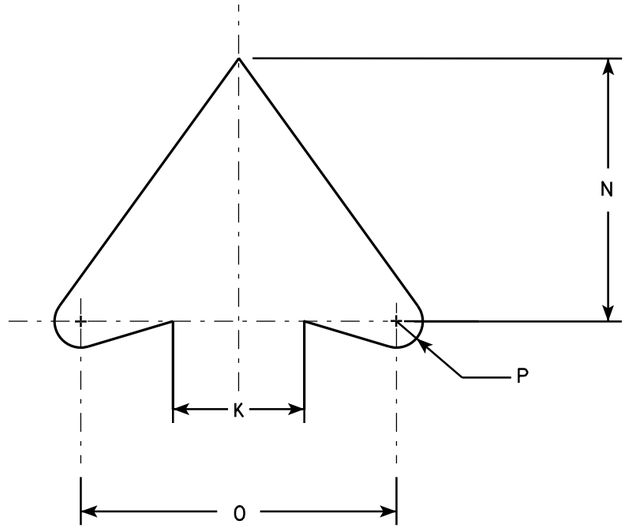
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 354	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	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 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

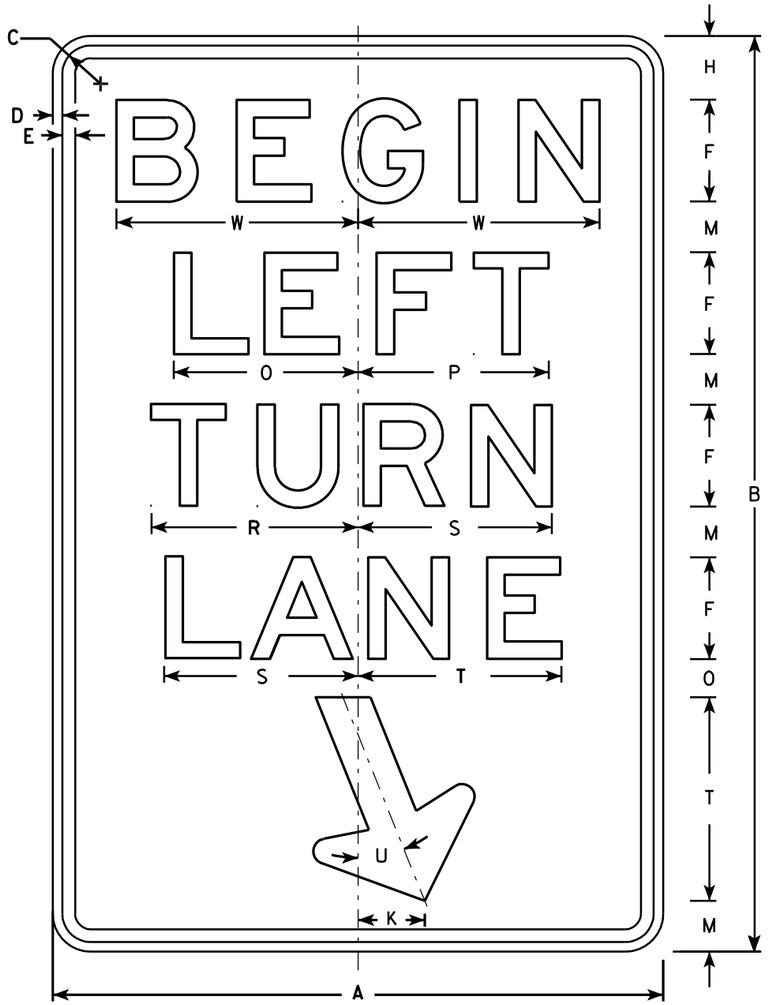
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

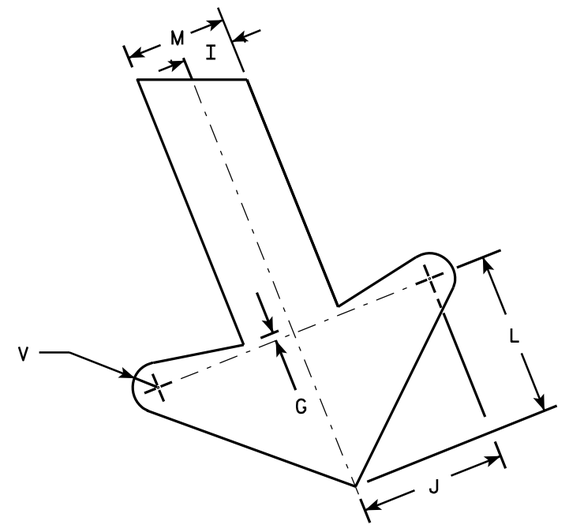
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 355	E



R3-20L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

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 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

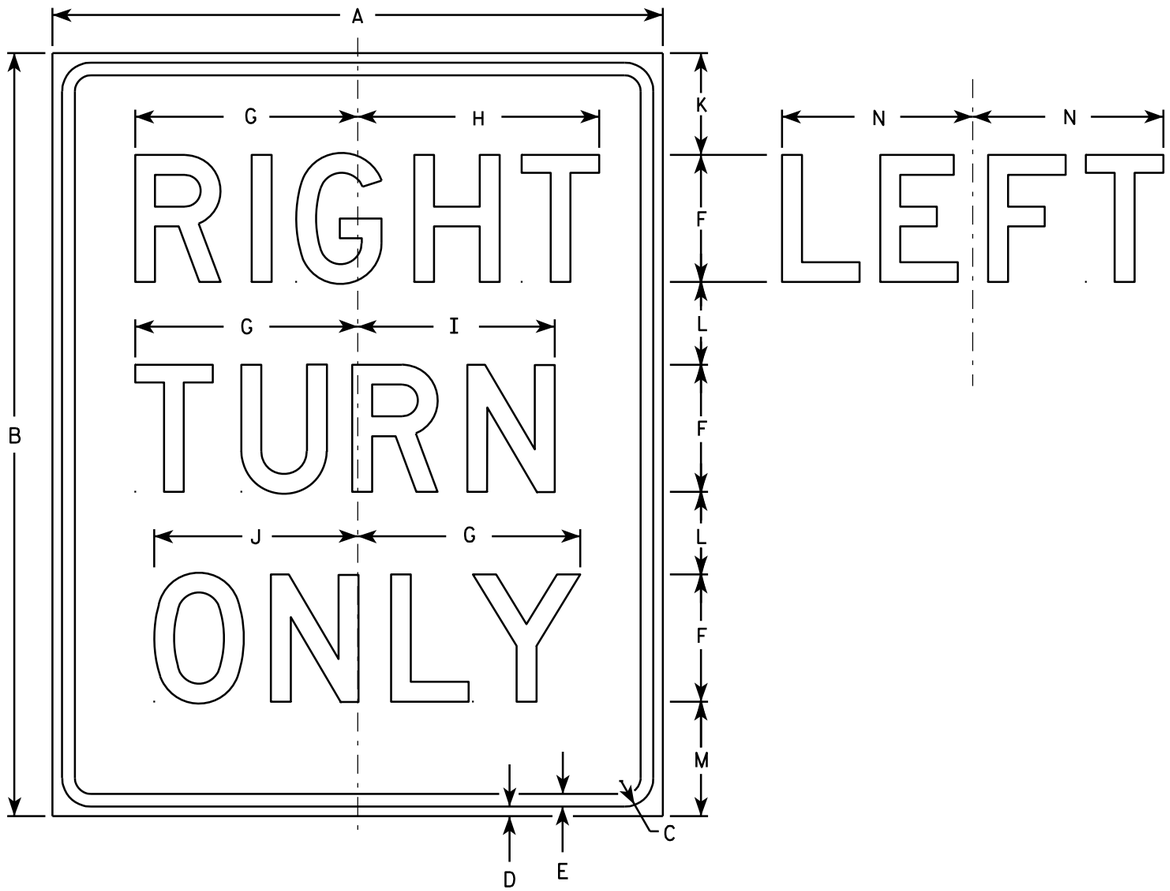
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 356 | E



R3-53R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R3-53L same as R3-53R except LEFT is substituted for RIGHT.

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	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
2M	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
3	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
4																											
5																											

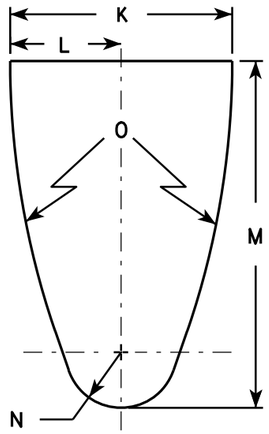
STANDARD SIGN
R3-53

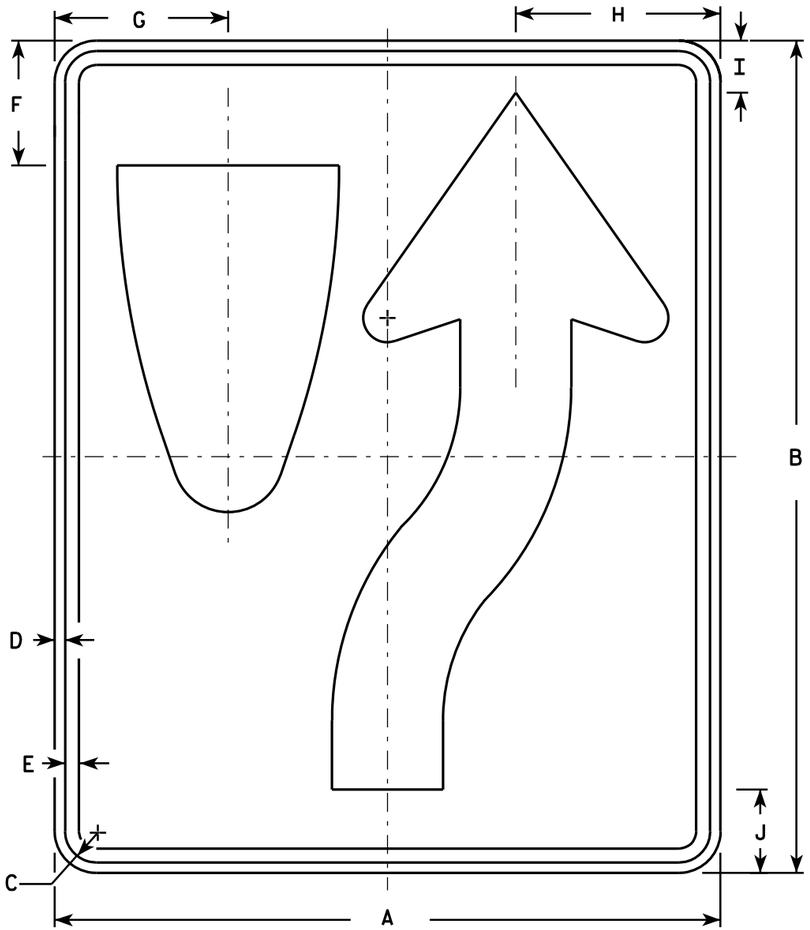
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-53.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 357	E

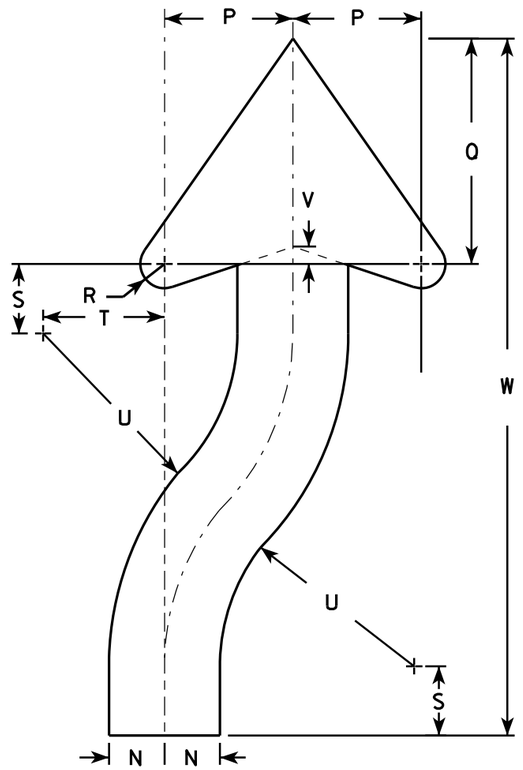




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend 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	18	24	1 1/8	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 1/8	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 1/8	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 3/4	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 3/4	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	2 1/4	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

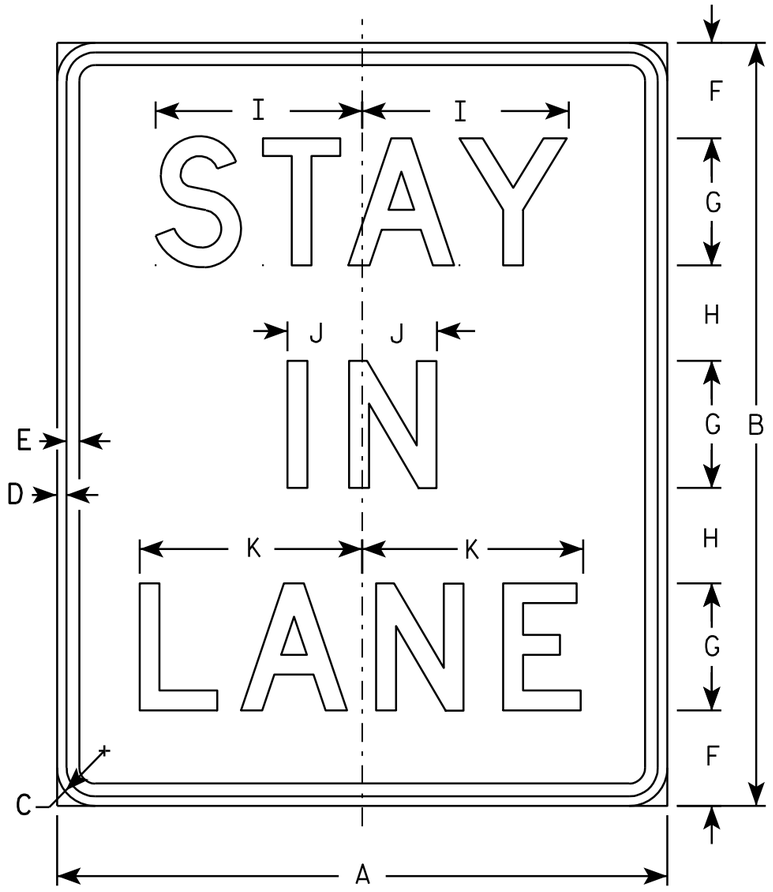
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 358	E



R4-9

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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 1/8	3/8	3/8	3	4	3	6 1/2	2 3/8	7																3.0
2S	24	30	1 1/8	3/8	1/2	3 5/8	5	3 7/8	8 1/8	3	8 3/4																5.0
2M	24	30	1 1/8	3/8	1/2	3 5/8	5	3 7/8	8 1/8	3	8 3/4																5.0
3	36	48	1 3/8	1/2	5/8	8 1/4	7	5 1/4	11 3/8	4 1/8	12 1/4																12.0
4	36	48	1 3/8	1/2	5/8	8 1/4	7	5 1/4	11 3/8	4 1/8	12 1/4																12.0
5	48	60	2 1/4	3/4	1	7 1/2	10	7 1/2	16 1/4	5 7/8	17 1/2																20.0

STANDARD SIGN
R4-9

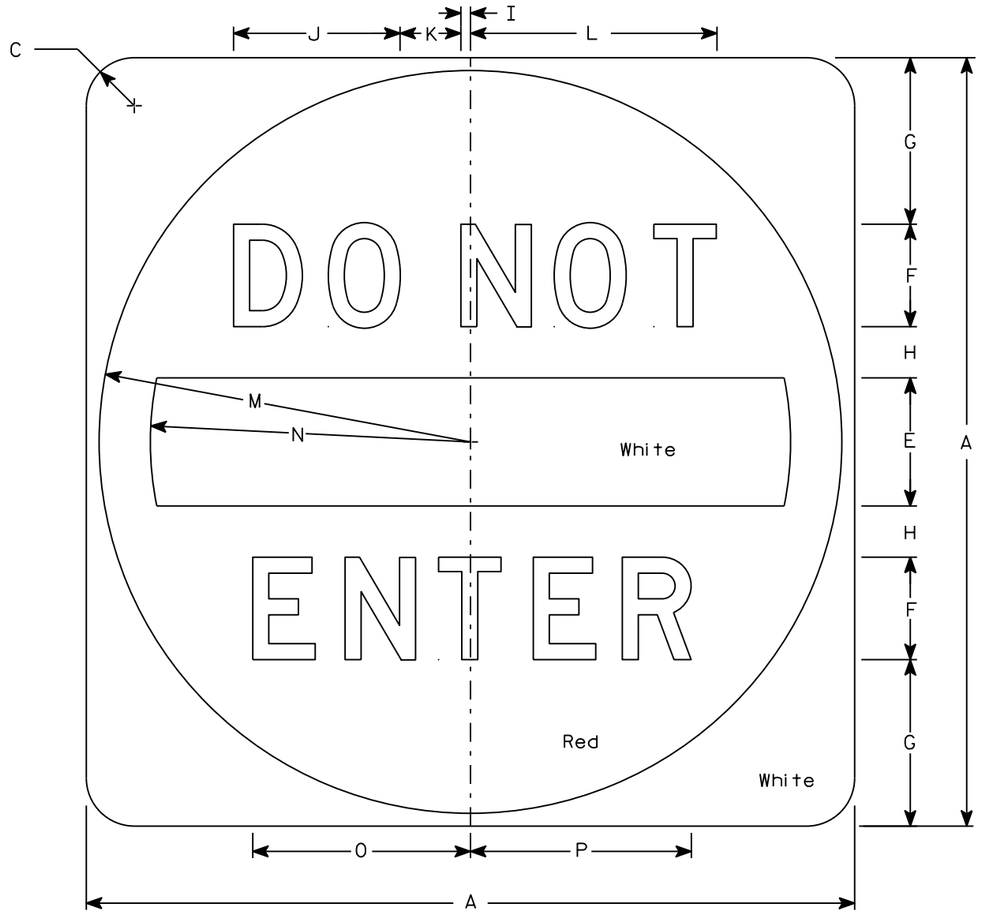
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-9.2

PROJECT NO:

SHEET NO: 359 E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

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		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

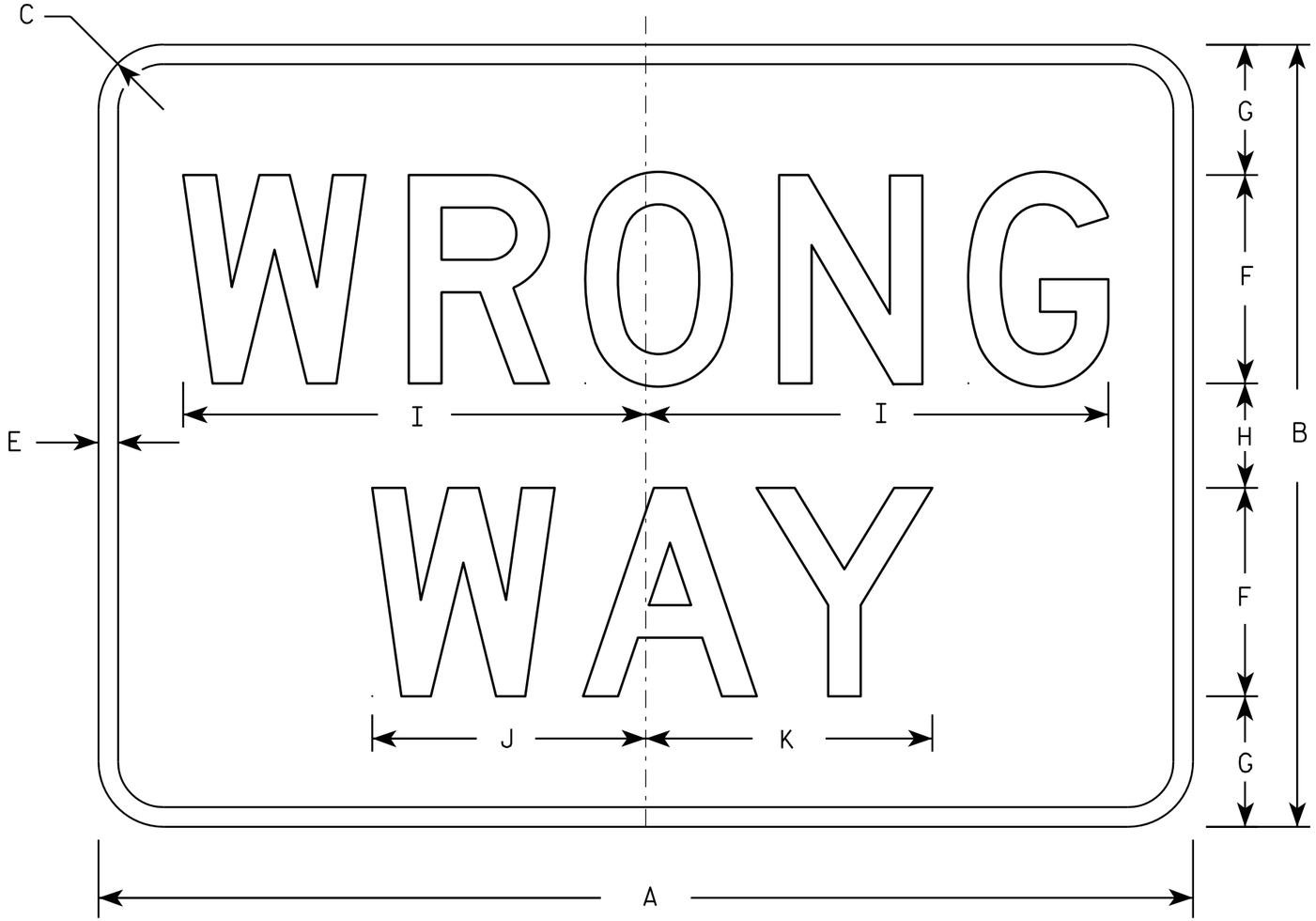
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 360 | E



R5-1A

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 - 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.

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	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

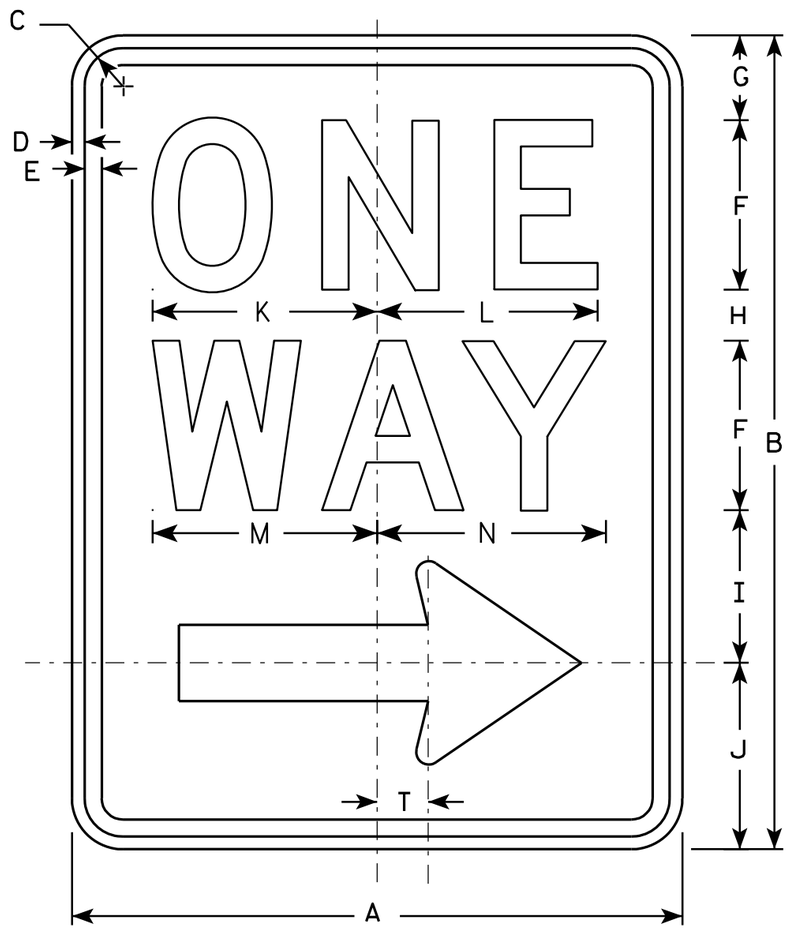
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

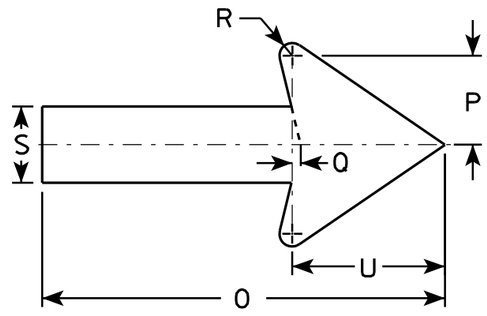
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 361 | E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



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
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

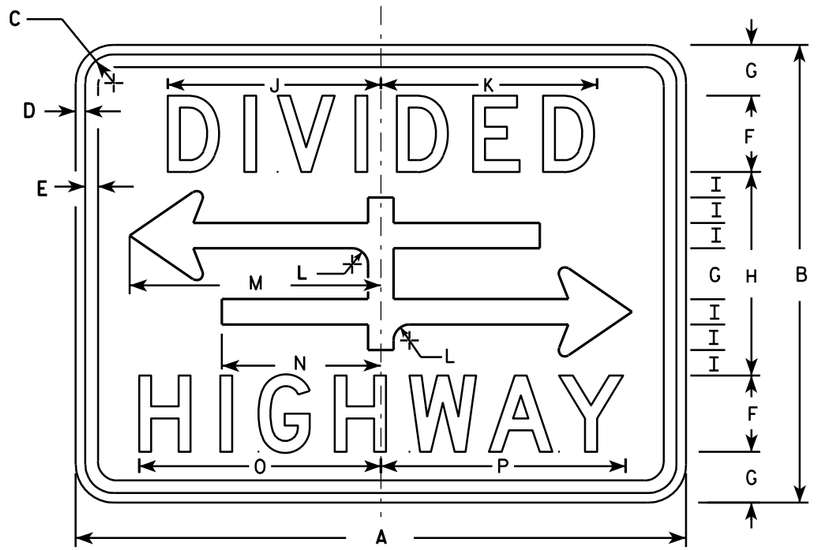
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

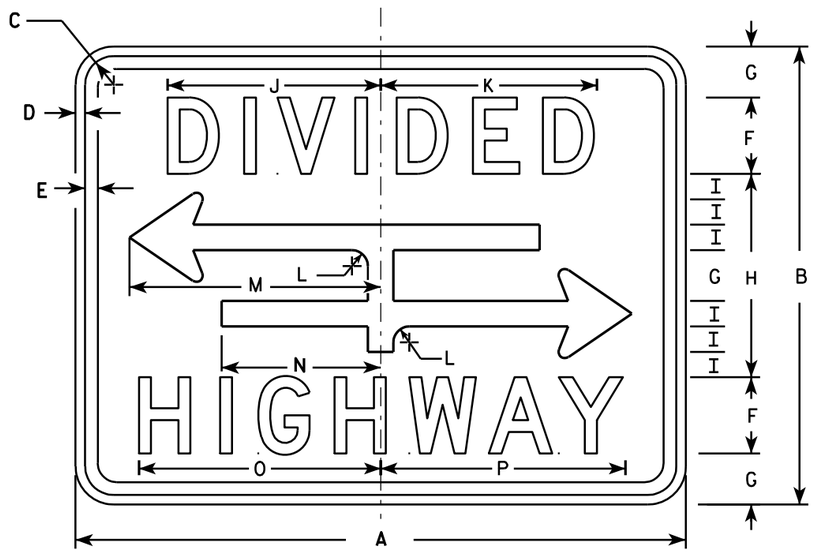
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 362	E



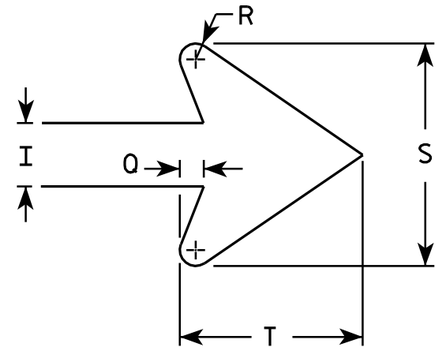
R6-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-3A



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	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

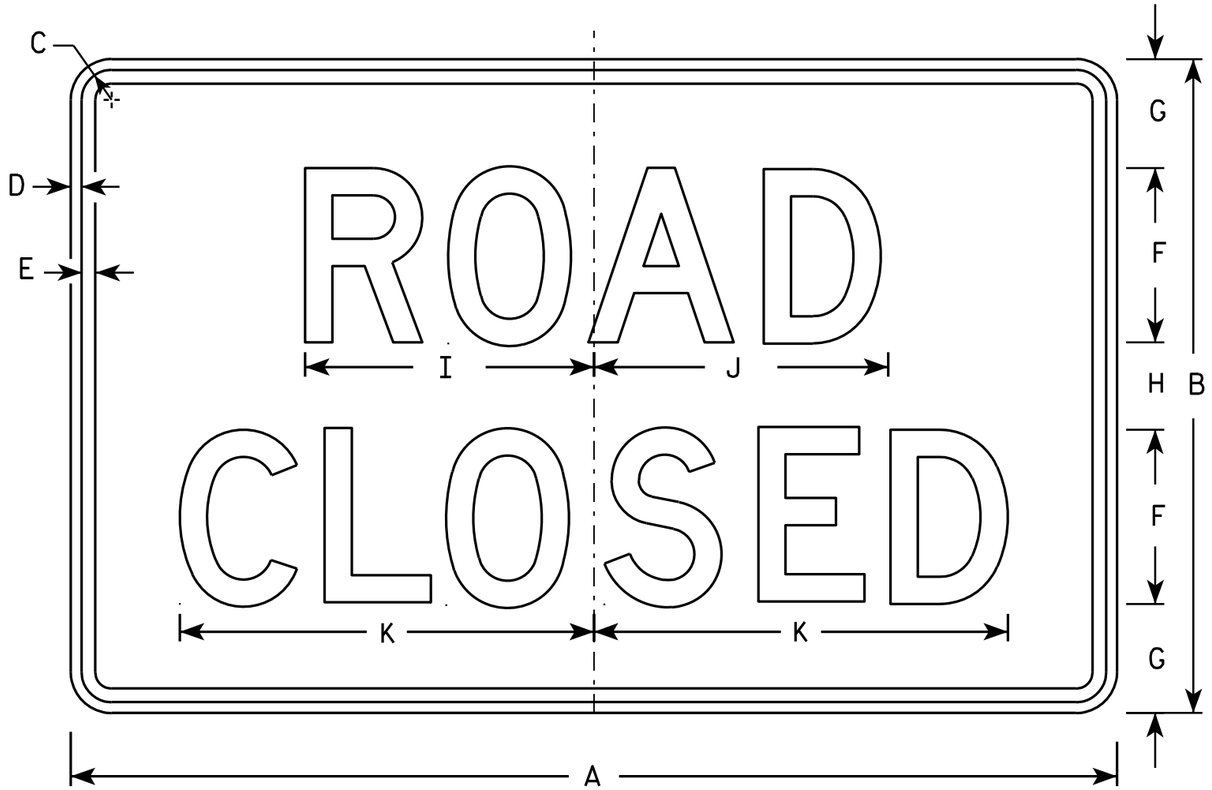
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

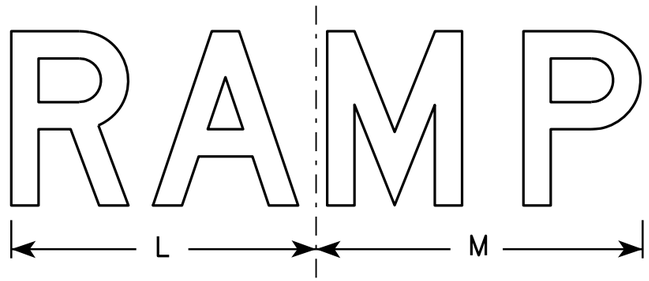
SHEET NO: 363 E



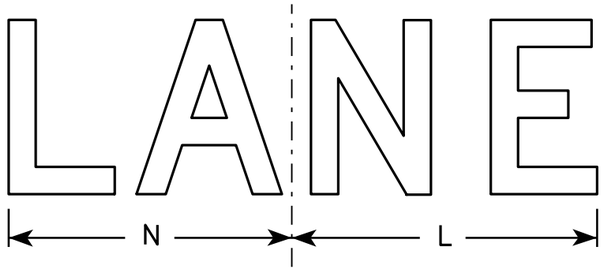
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



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 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

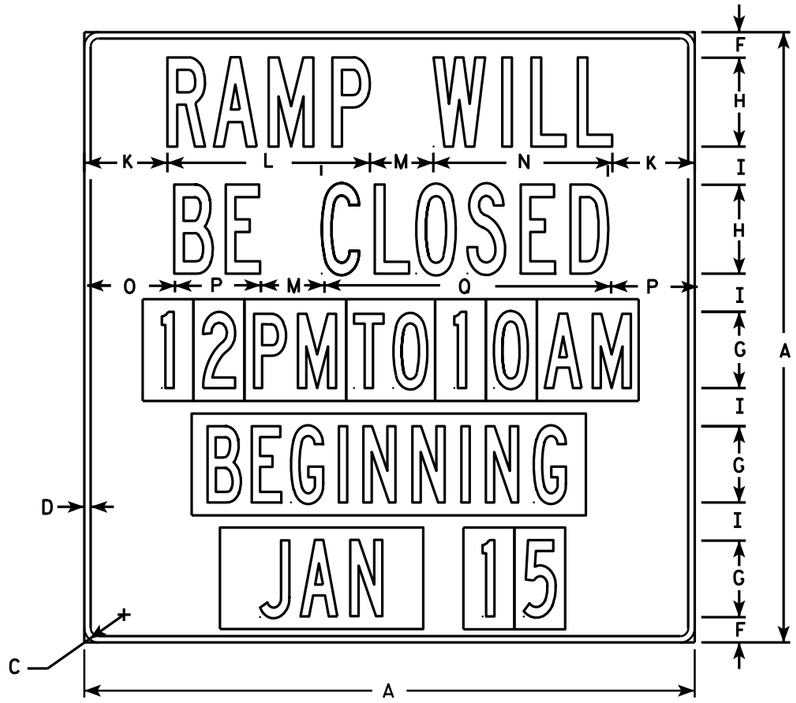
STANDARD SIGN
R11-2

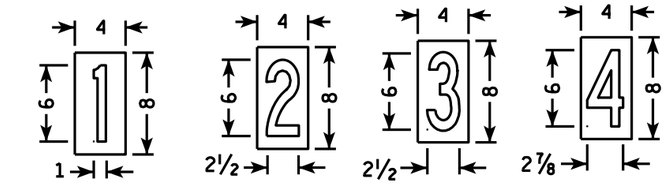
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

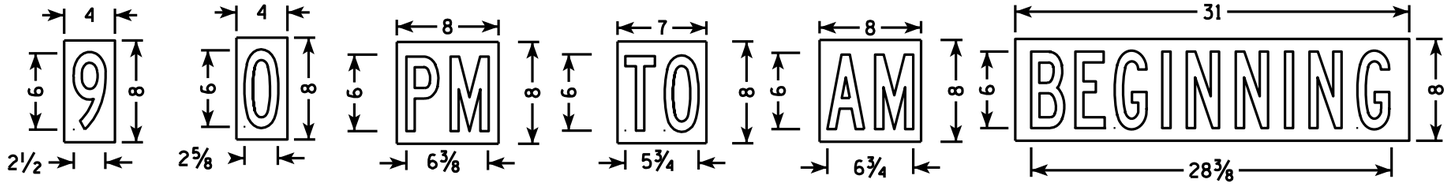
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 364 | E

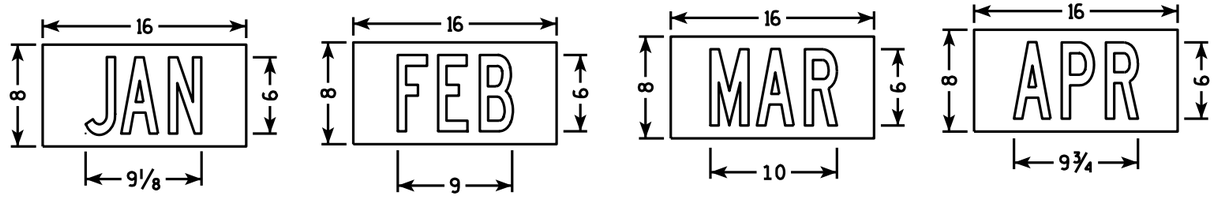


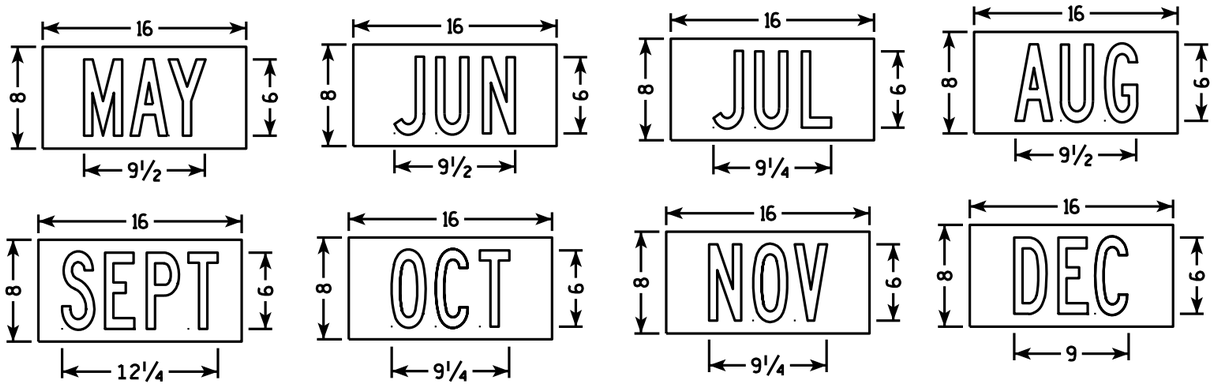


NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - B
4. Message plaques consist of Type H Reflective sheeting with the appropriate non-reflective black message applied to .040 aluminum and screwed to the base sign.









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		2 1/4	1/2		2	6	7	3		6 1/2	15 7/8	5	14 1/8	6 7/8	6 3/4	22 1/2										16.0
2M	48		2 1/4	1/2		2	6	7	3		6 1/2	15 7/8	5	14 1/8	6 7/8	6 3/4	22 1/2										16.0
3																											
4																											
5																											

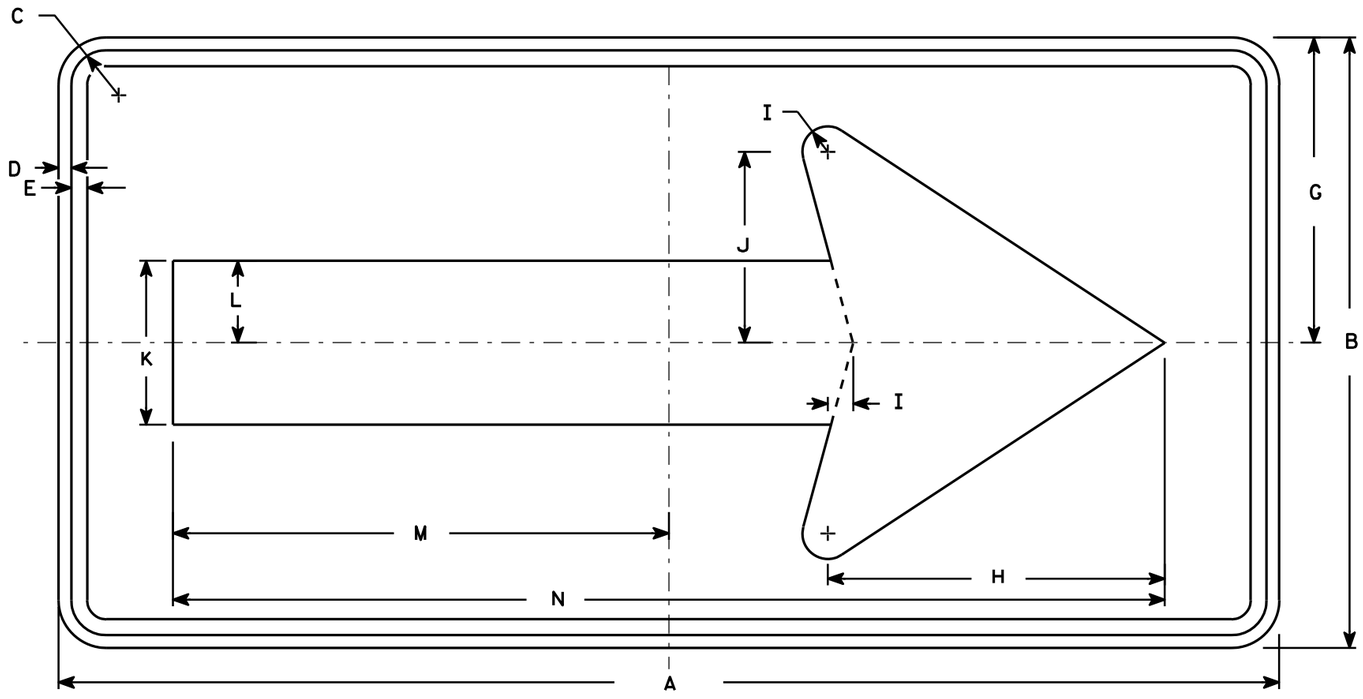
STANDARD SIGN
R11-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-51.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 365	E



W1-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   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	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

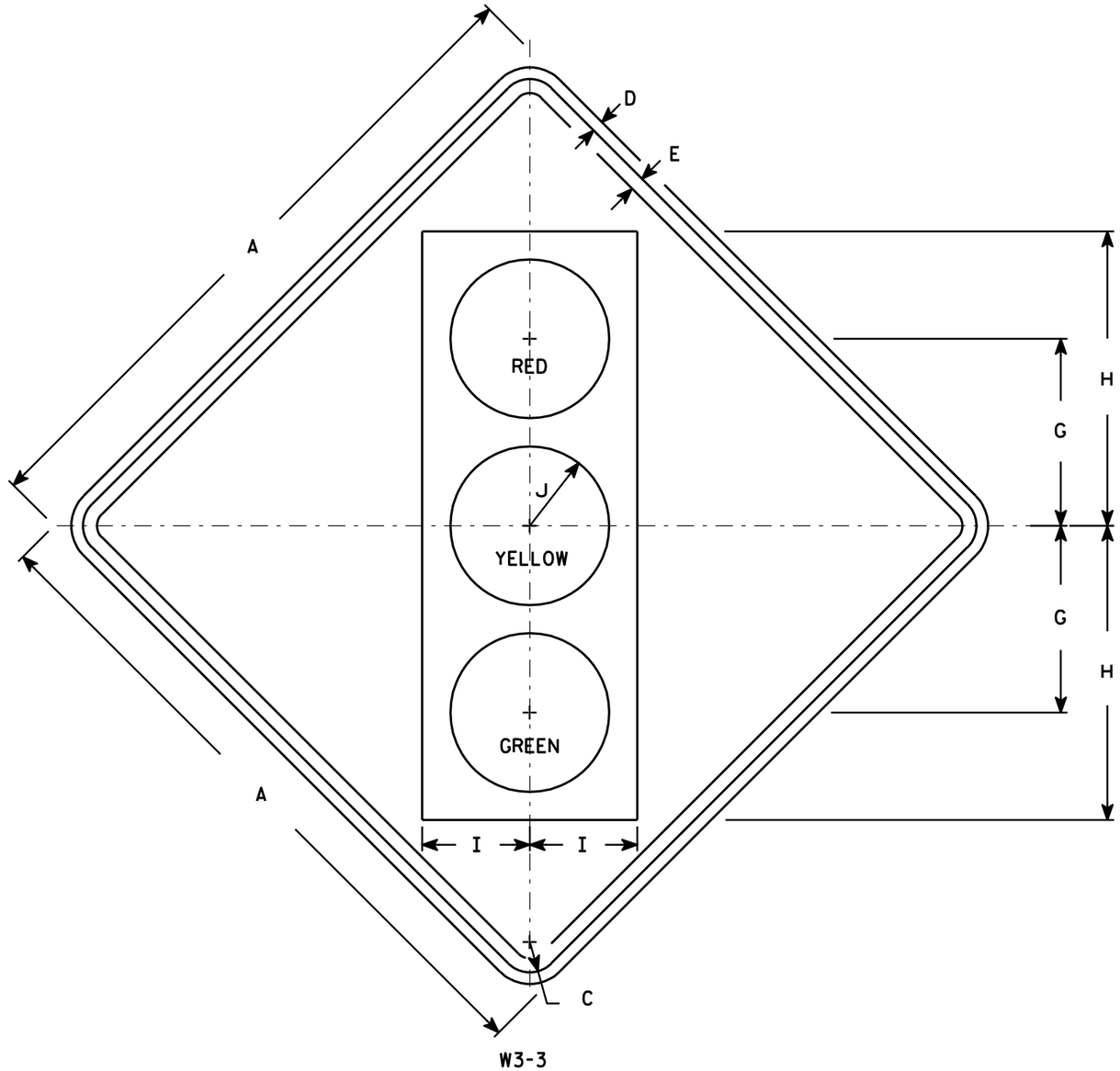
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 366



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   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. 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 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

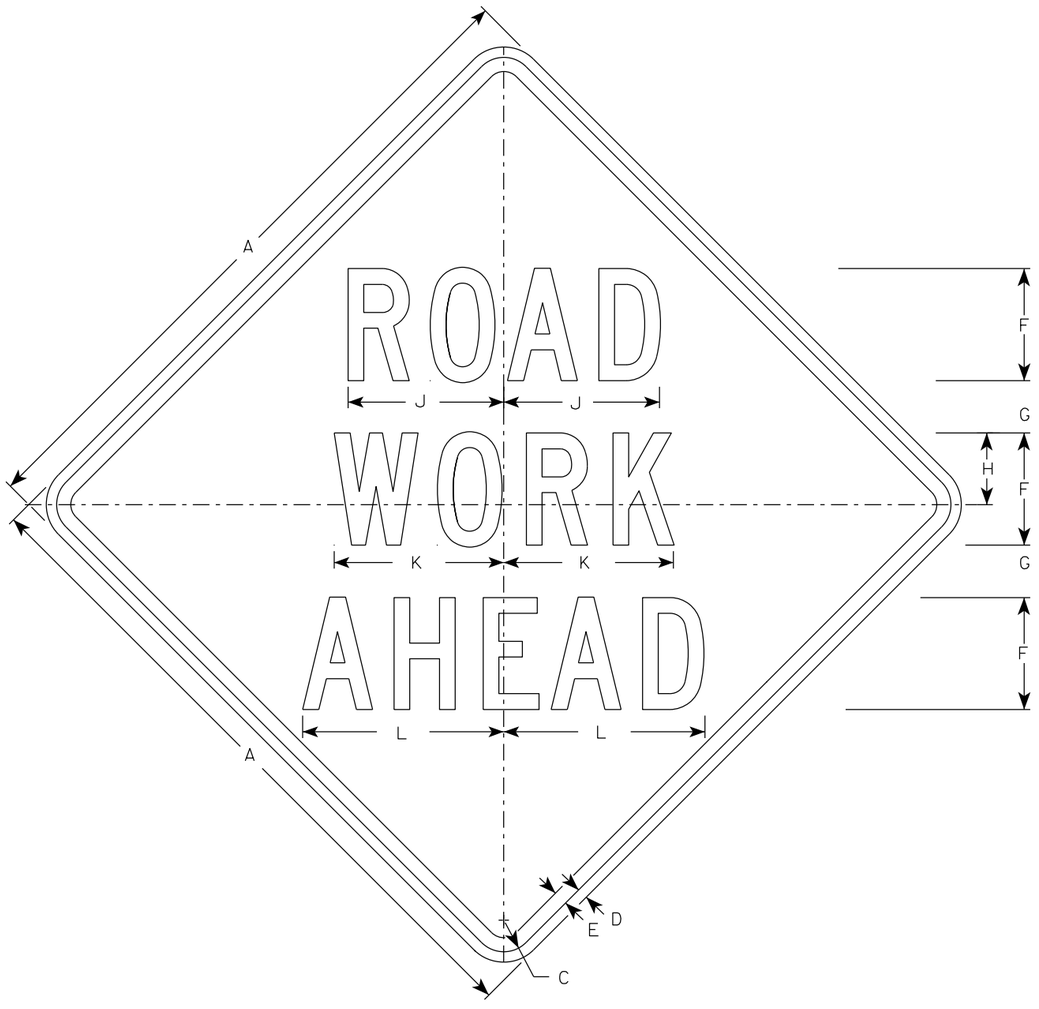
STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

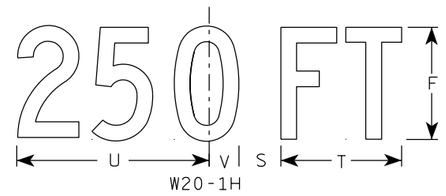
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

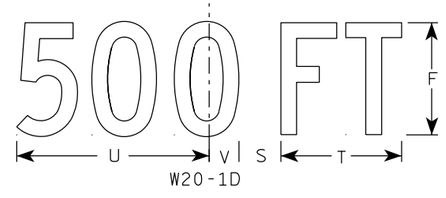
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 367 | E



W20-1A



W20-1H



W20-1D



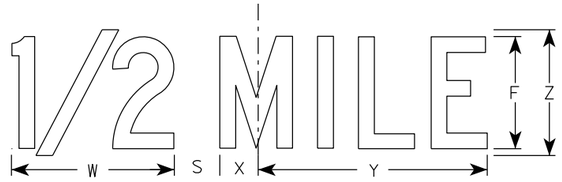
W20-1C



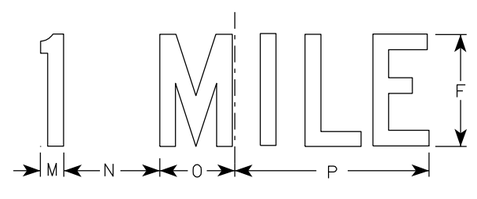
W20-1B

NOTES

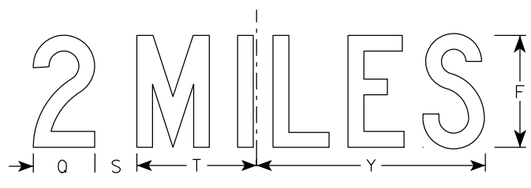
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



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		1 5/8	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		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 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		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 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		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 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		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 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		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 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 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

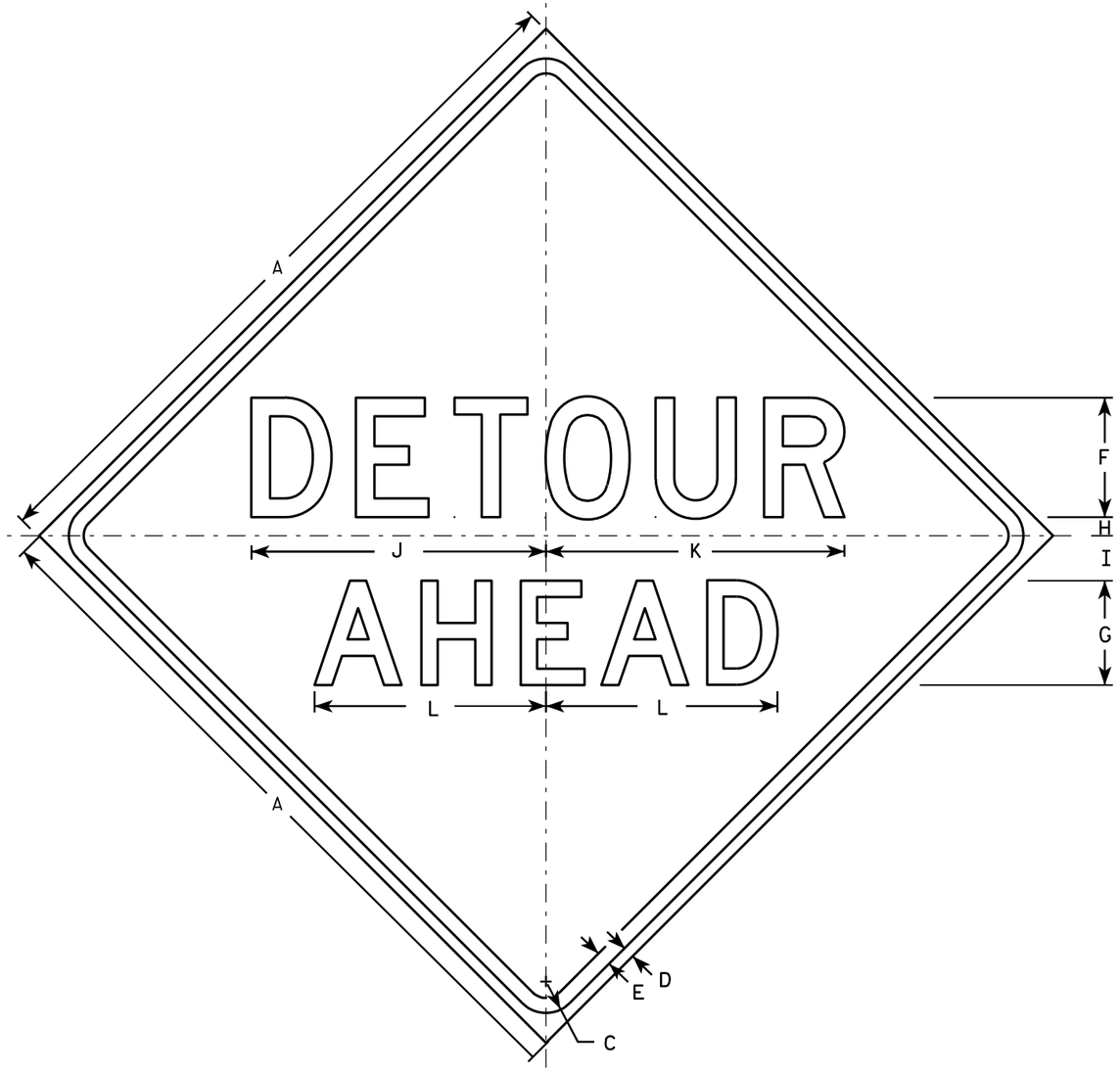
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

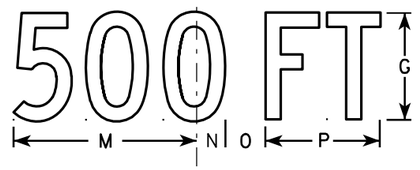
WISDOT/CADDS SHEET 42

7

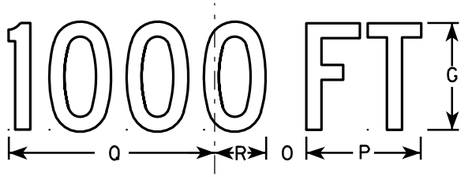
7



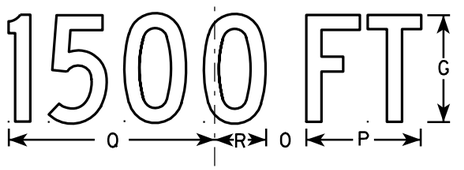
W20-2A



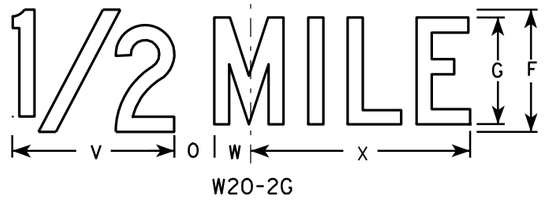
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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		1 5/8	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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

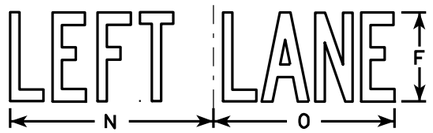
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

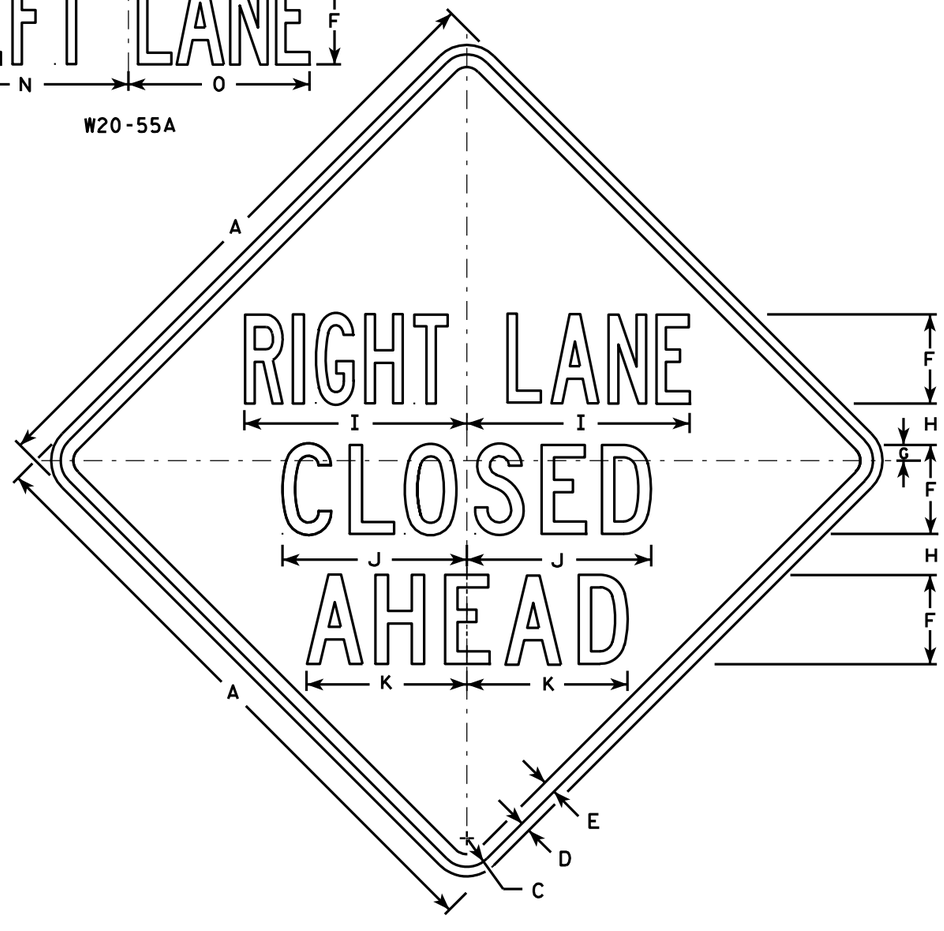
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 369	E



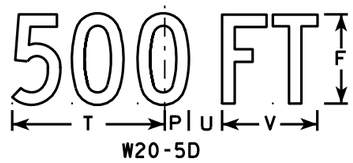
W20-56A



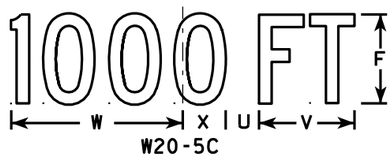
W20-55A



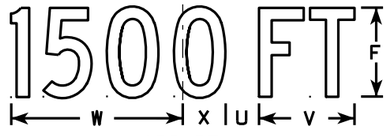
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

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	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

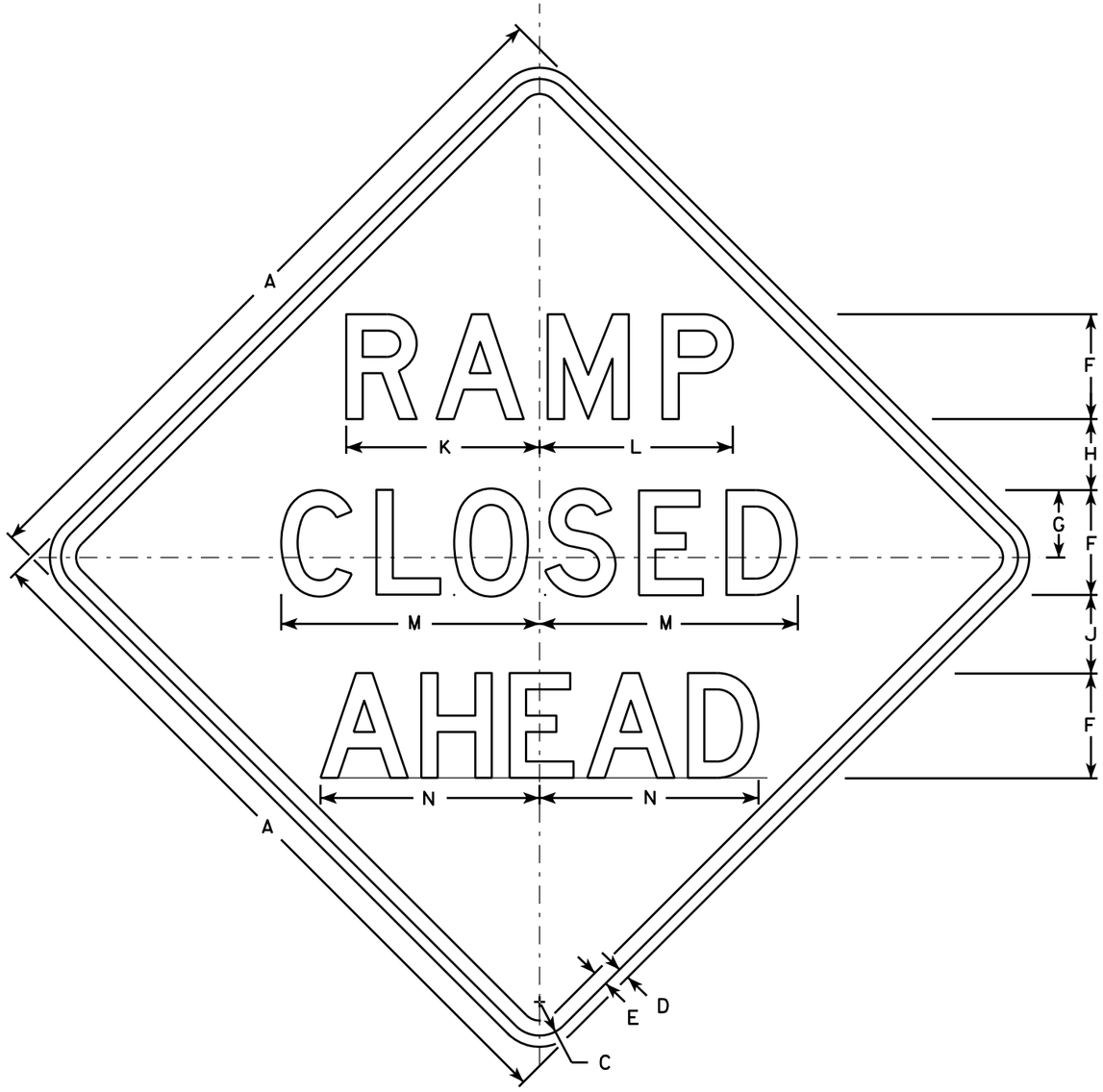
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

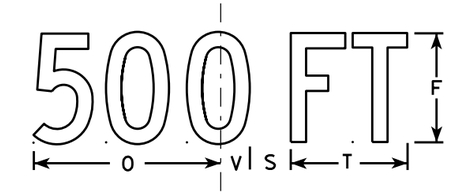
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 370 | E

7

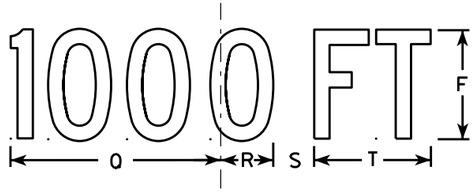
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



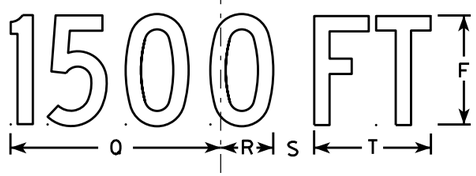
W20-53A



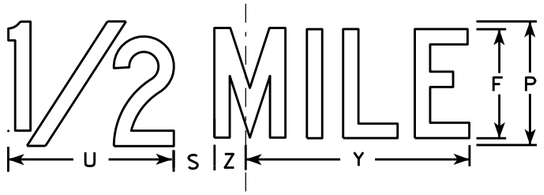
W20-53D



W20-53C



W20-53B



W20-53G



W20-53F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	9 1/4	9 1/4	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		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	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		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	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		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	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		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	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		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	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
W20-53A,B,C,D,F,G

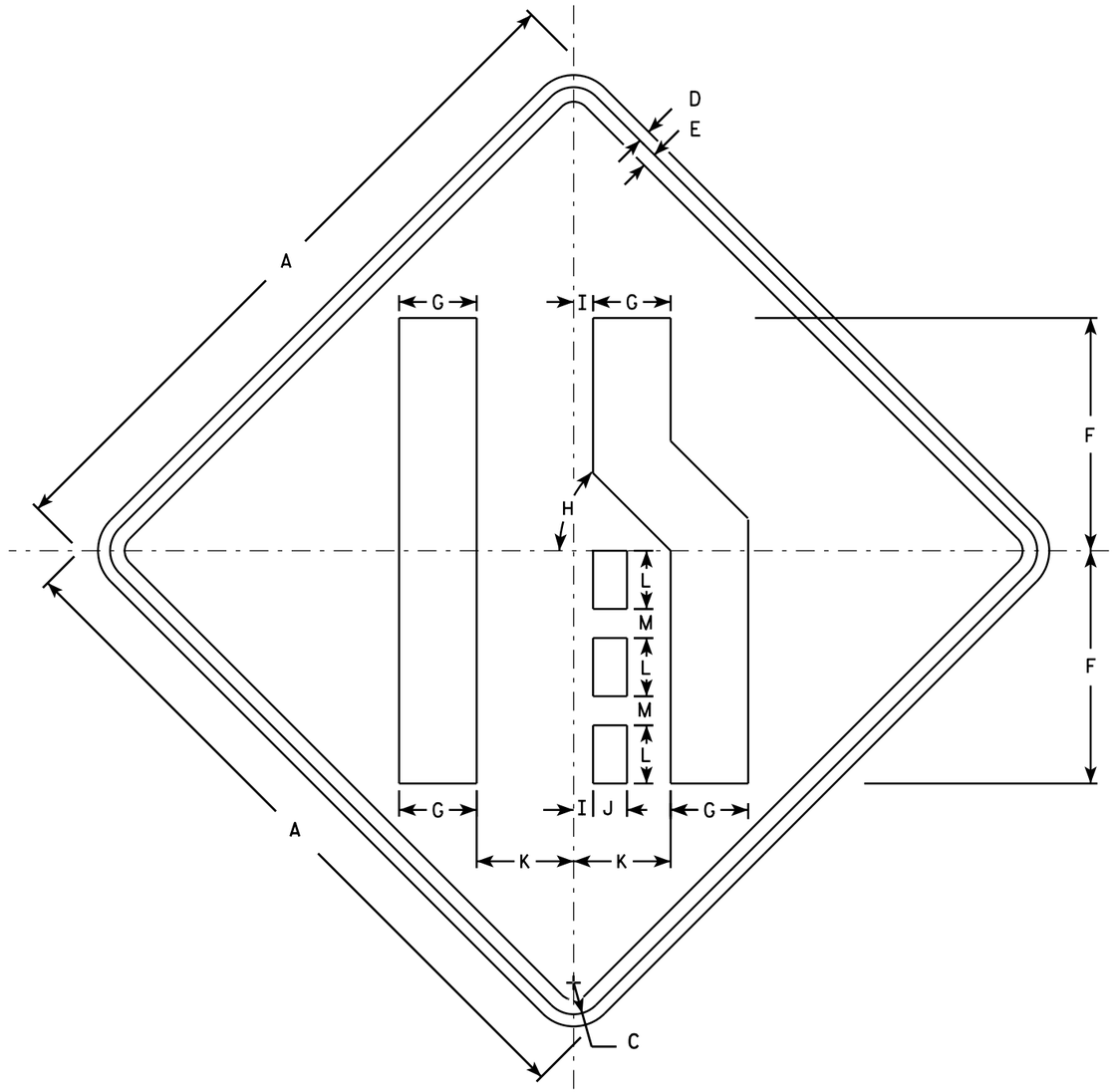
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W2053.DGN PLOT DATE : 27-MAY-2015 19:40 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.729210:1.000000
WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol 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		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

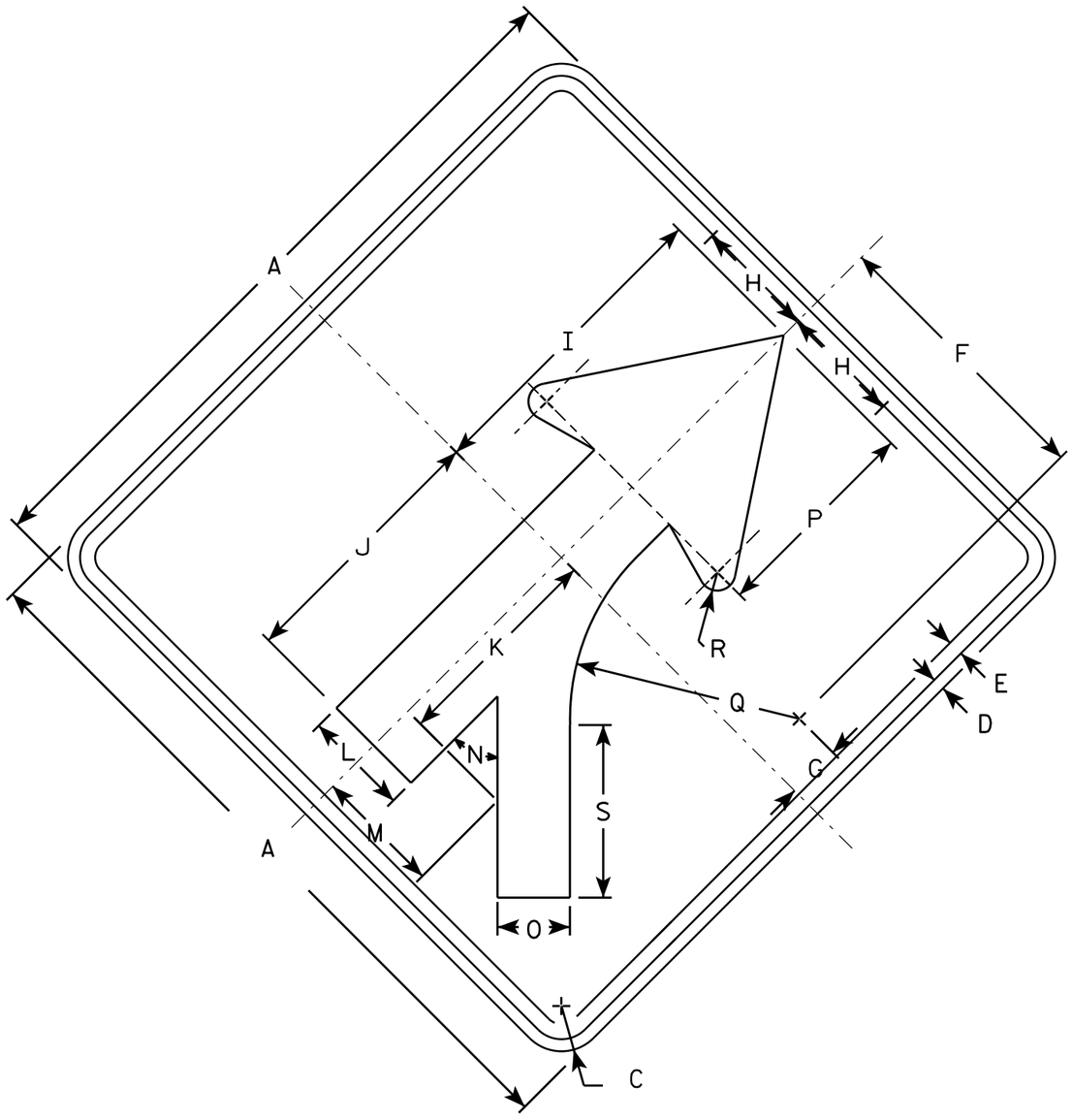
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 372 W04-2.1

PROJECT NO: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W042.DGN PLOT DATE : 20-NOV-2013 11:43 PLOT BY : mscsja



W04-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8	8 1/2								9.0
2S	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4	11 3/8								16.0
2M	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4	11 3/8								16.0
3	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4	11 3/8								16.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4	11 3/8								16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4	11 3/8								16.0

STANDARD SIGN
W04-5

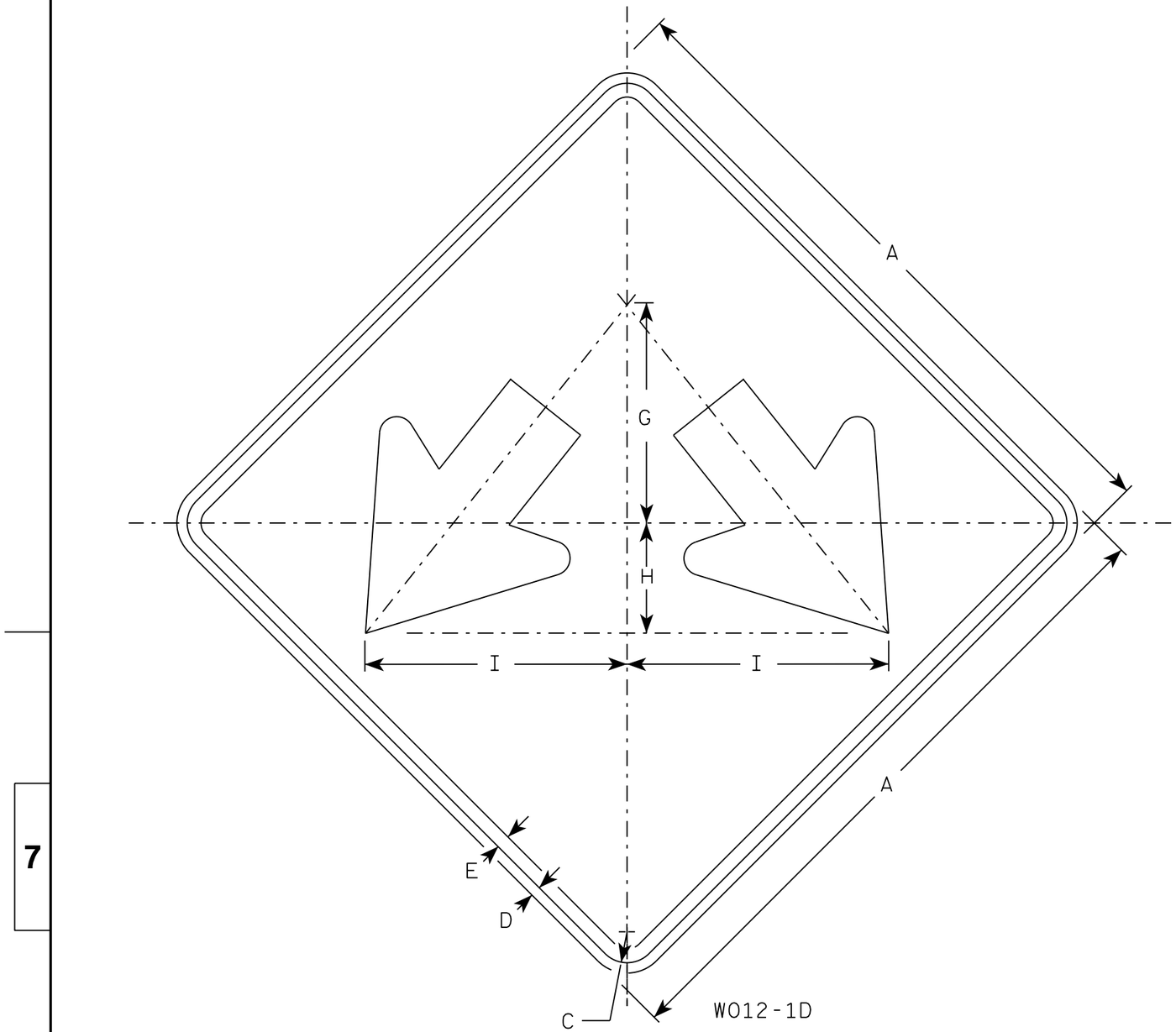
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/28/16 PLATE NO W04-5.1

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

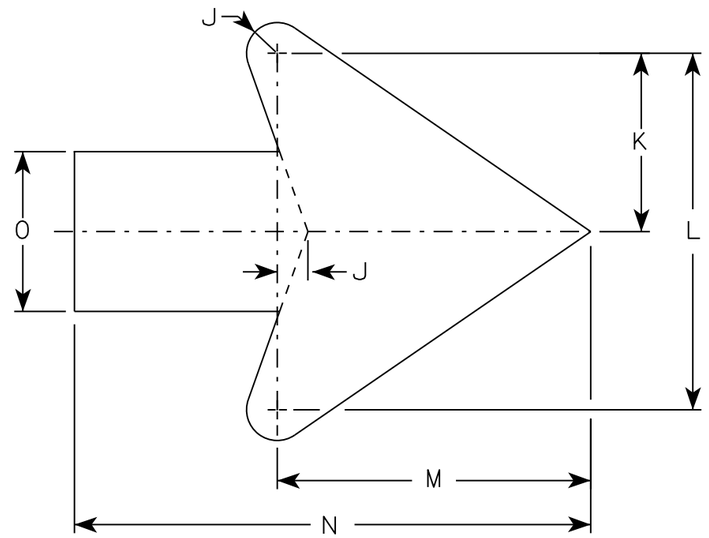
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W045.DGN PLOT DATE : 28-APR-2016 13:30 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.080757:1.000000
WISDOT/CADDS SHEET 42



W012-1D

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.



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 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0

STANDARD SIGN
W012-1D

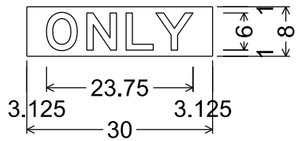
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

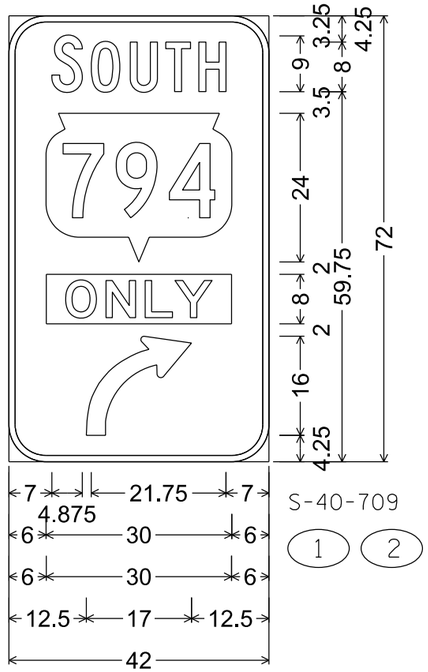
DATE 7/28/16 PLATE NO W012-1D.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CADfiles\Projects\tr_stdplate\W0121D.DGN PLOT DATE : 11-AUG-2016 11:28 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.621375:1.000000



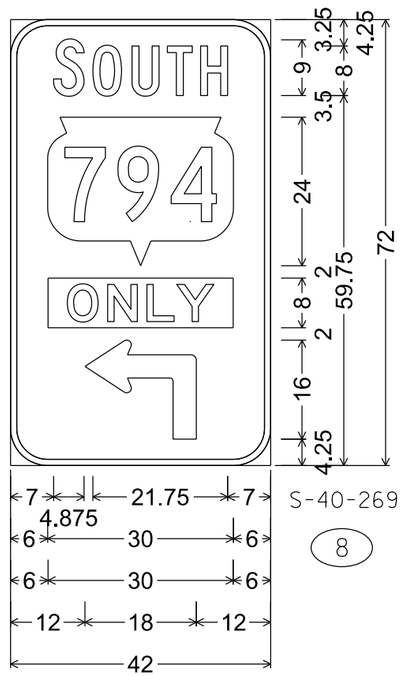
No border, Black on, Fluorescent yellow;
"ONLY" Black, E



S-40-709

1 2

D16-1R; 6.000" Radius, 1.000" Border,
"SOUTH", C



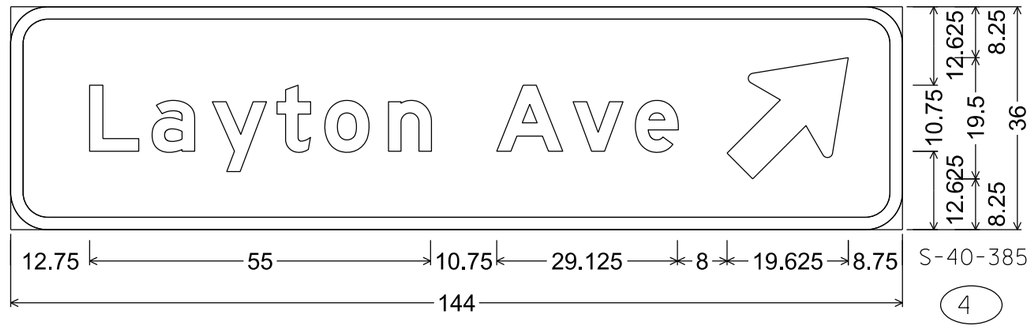
S-40-269

8

D16-1R; 6.000" Radius, 1.000" Border,
"SOUTH", C

NOTES

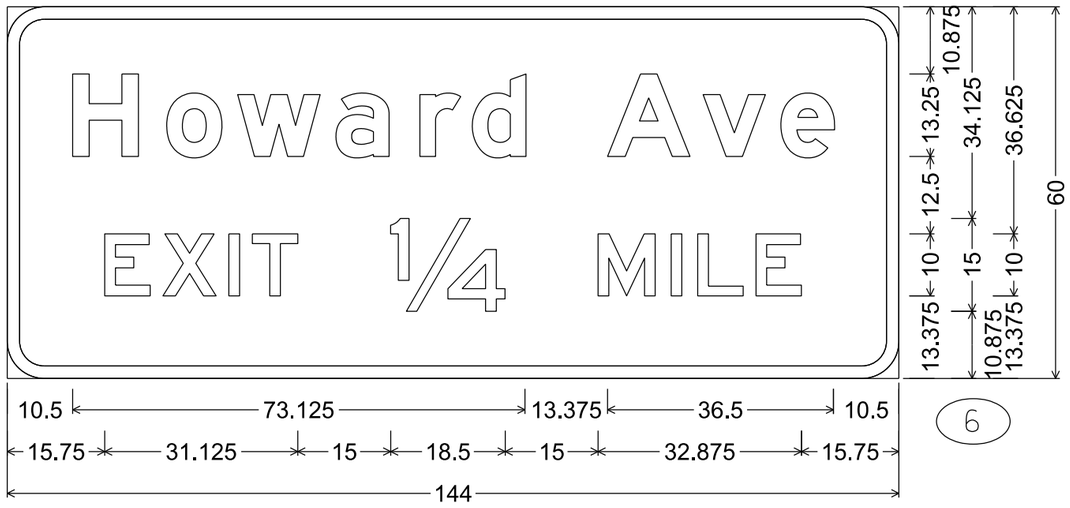
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except as noted
4. ONLY plaque is on Type F Yellow Reflective sheeting with Black Non-Reflective message



S-40-385

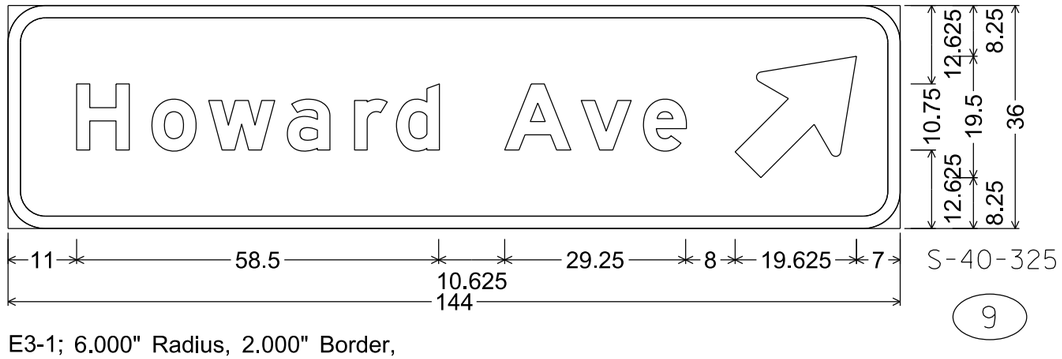
4

E3-1;
6.000" Radius, 2.000" Border, White on, Green;
"Layton", E Mod; "Ave", E Mod;



6

E3-1; 6.000" Radius, 2.000" Border, White on, Green;
"Howard", E Mod; "Ave", E Mod; "EXIT", E; "1/4", E; "MILE", E



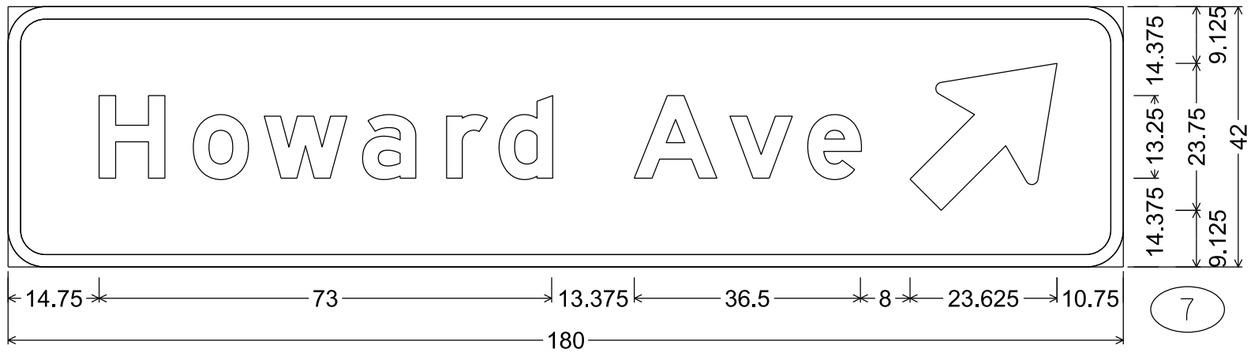
S-40-325

9

E3-1; 6.000" Radius, 2.000" Border,
"Howard", E Mod; "Ave", E Mod

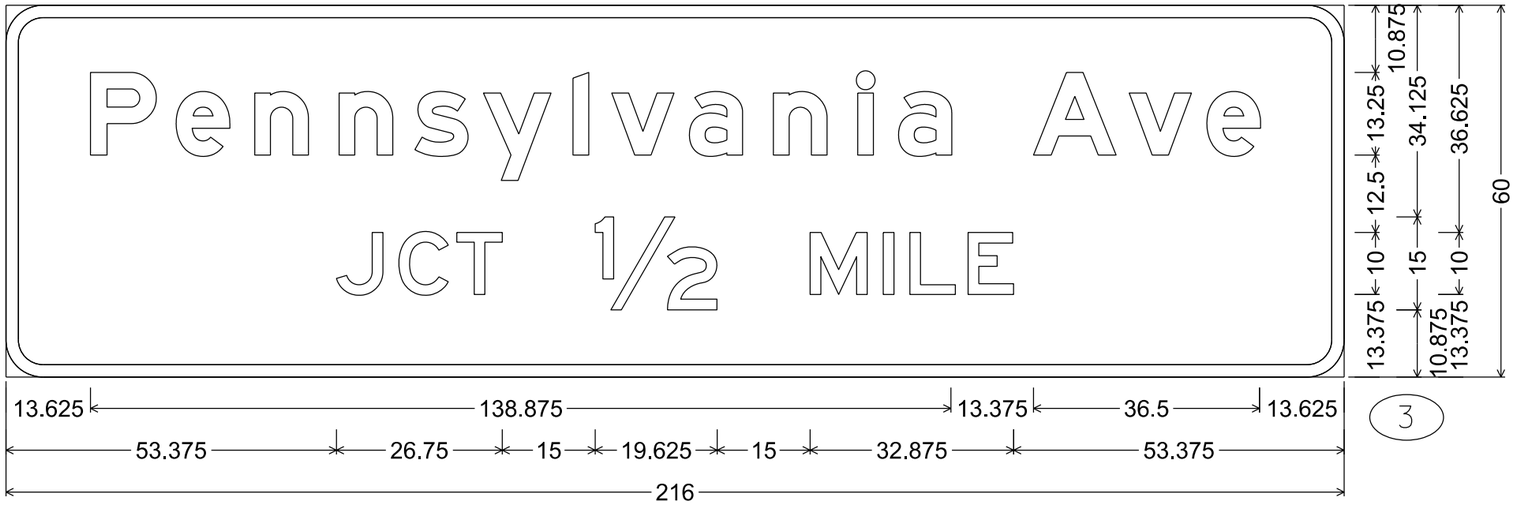
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except as noted



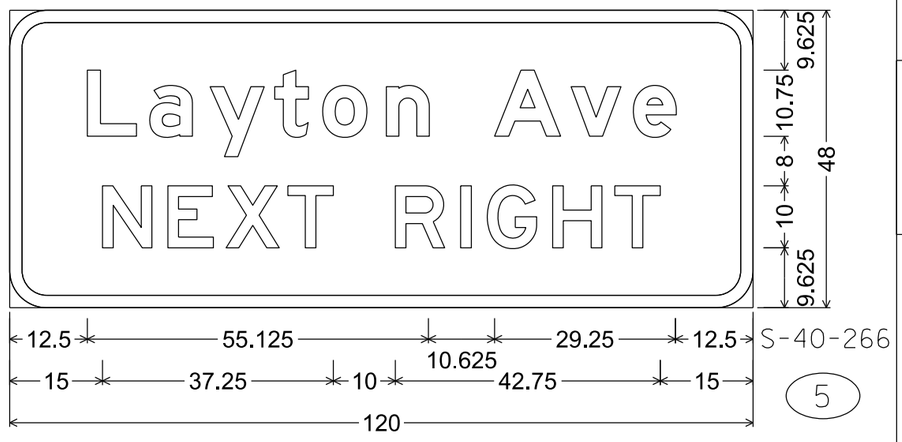
7

E3-1; 6.000" Radius, 2.000" Border,
"Howard", E Mod; "Ave", E Mod



3

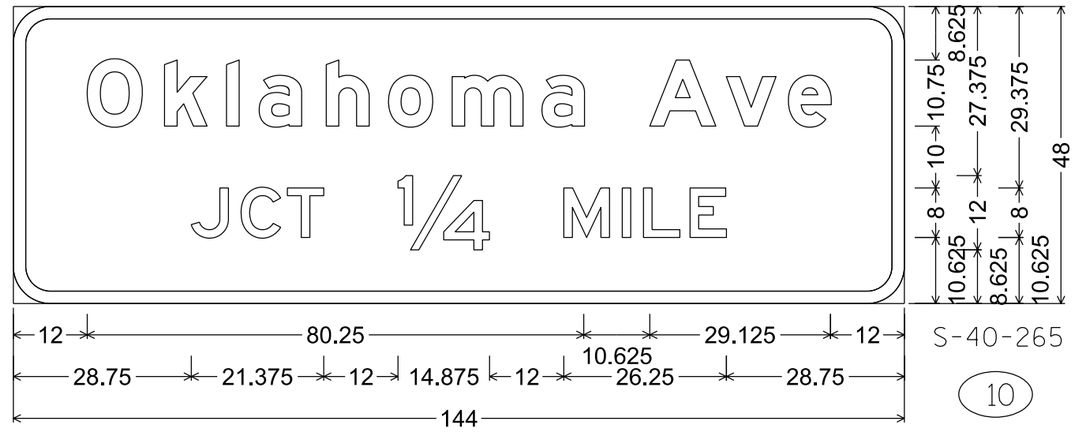
E3-1; 6.000" Radius, 2.000" Border,
"Pennsylvania", E Mod; "Ave", E Mod; "JCT", E; "½", E; "MILE", E



S-40-266

5

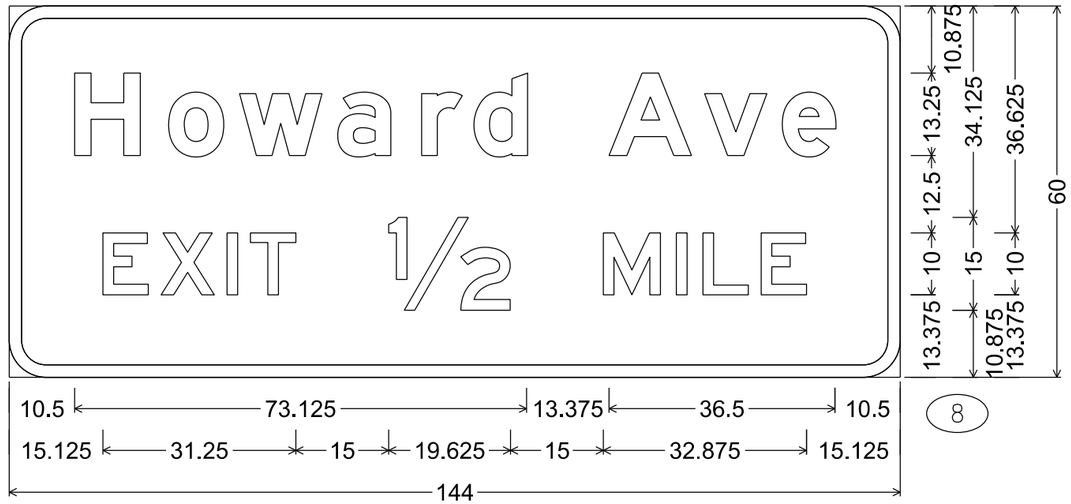
E9-1; 6.000" Radius, 2.000" Border,
"Layton", E Mod; "Ave", E Mod; "NEXT", E; "RIGHT", E



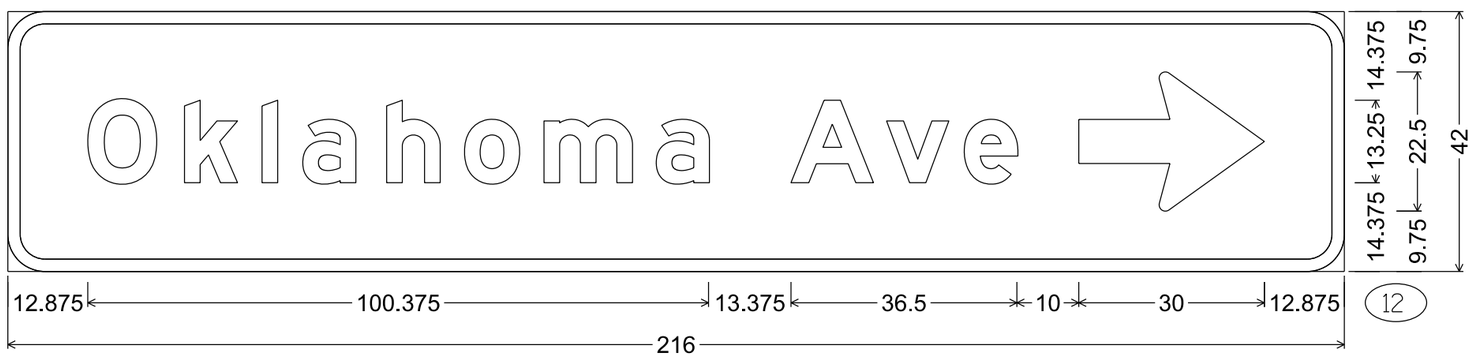
E3-1; 6.000" Radius, 2.000" Border,
"Oklahoma", E Mod; "Ave", E Mod; "JCT", E; "1/4", E; "MILE", E

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except as noted



E3-1; 6.000" Radius, 2.000" Border, White on, Green;
"Howard", E Mod; "Ave", E Mod; "EXIT", E; "1/2", E; "MILE", E



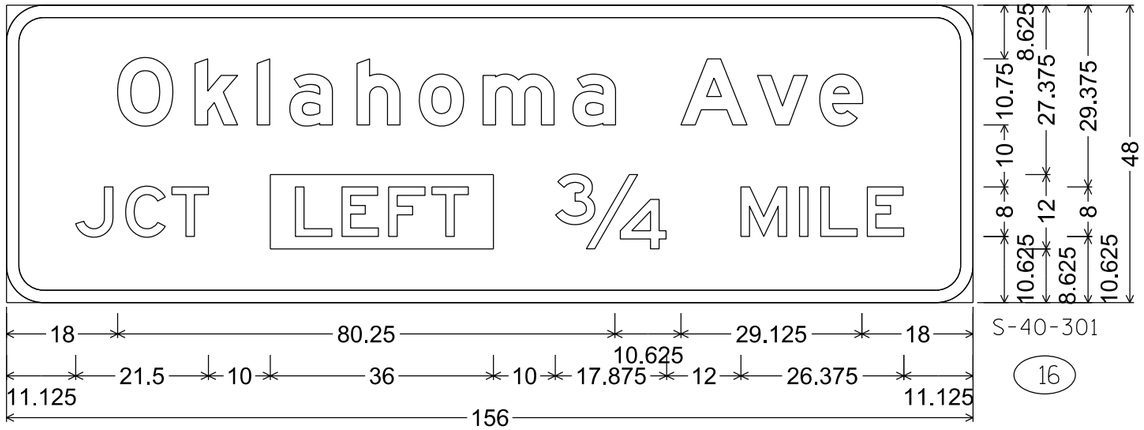
E3-1; 6.000" Radius, 2.000" Border,
"Oklahoma", E Mod; "Ave", E Mod

7

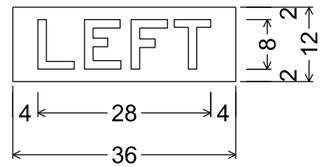
7

NOTES

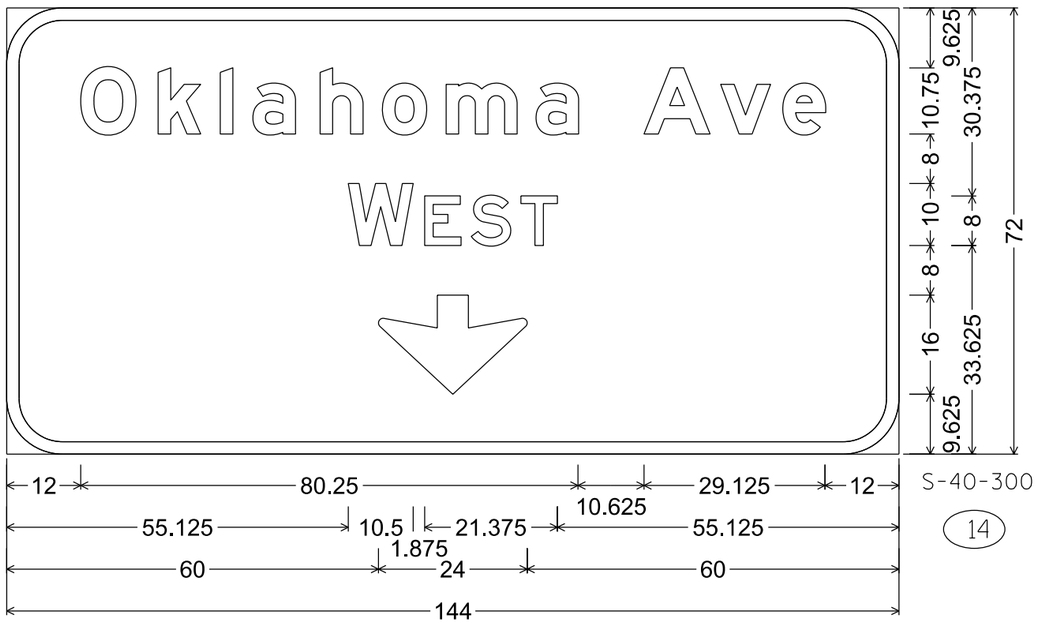
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except as noted



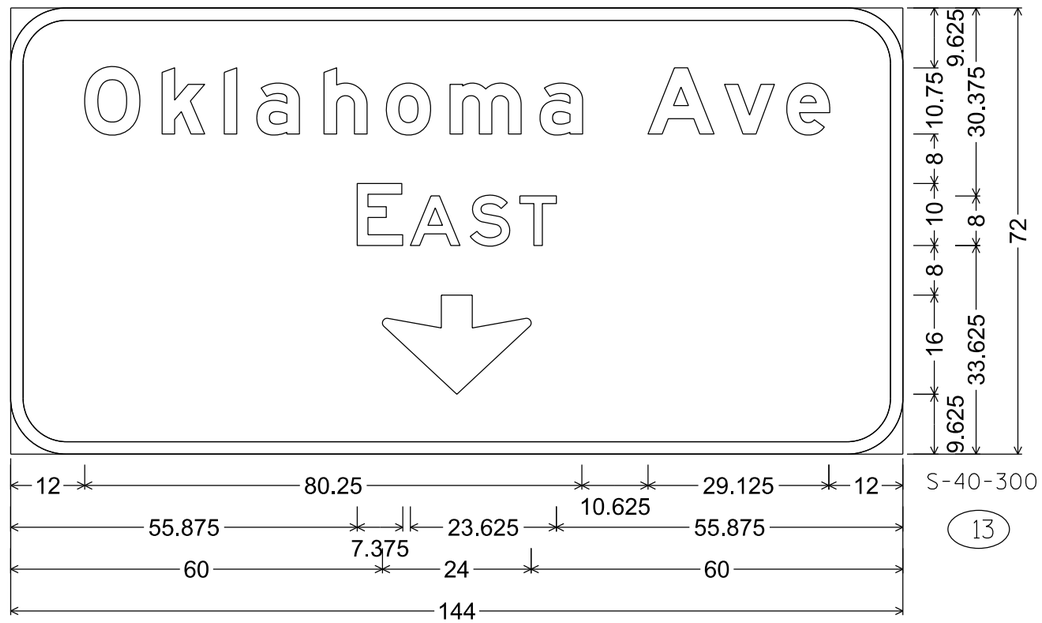
6.000" Radius, 2.000" Border, White on, Green;
"Oklahoma", E Mod; "Ave", E Mod; "JCT", E; "¾", E; "MILE", E



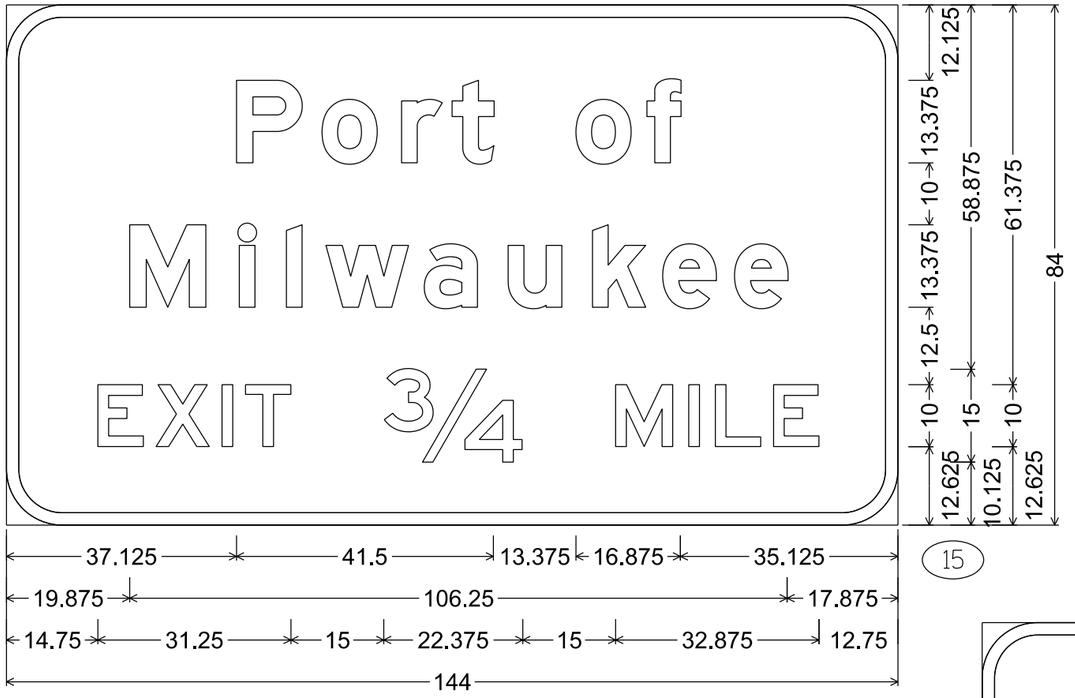
No border, Black on, Yellow;
"LEFT", E;



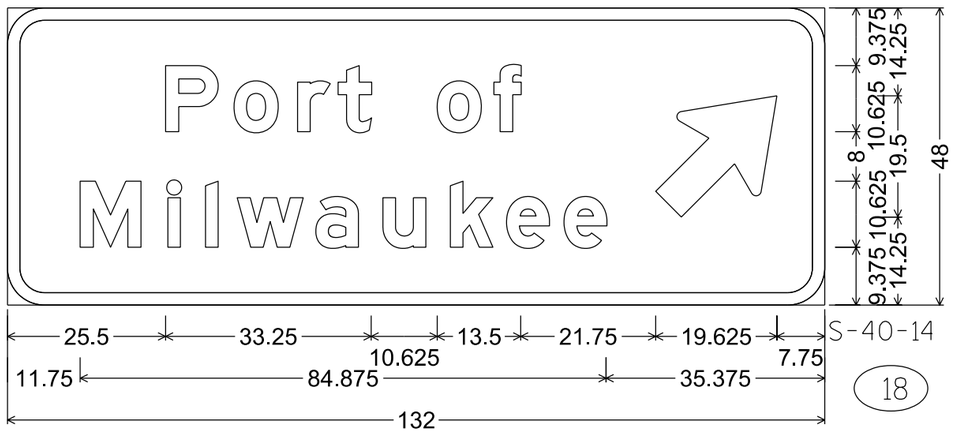
9.000" Radius, 2.000" Border,
"Oklahoma", E Mod; "Ave", E Mod; "WEST", E



9.000" Radius, 2.000" Border,
"Oklahoma", E Mod; "Ave", E Mod; "EAST", E



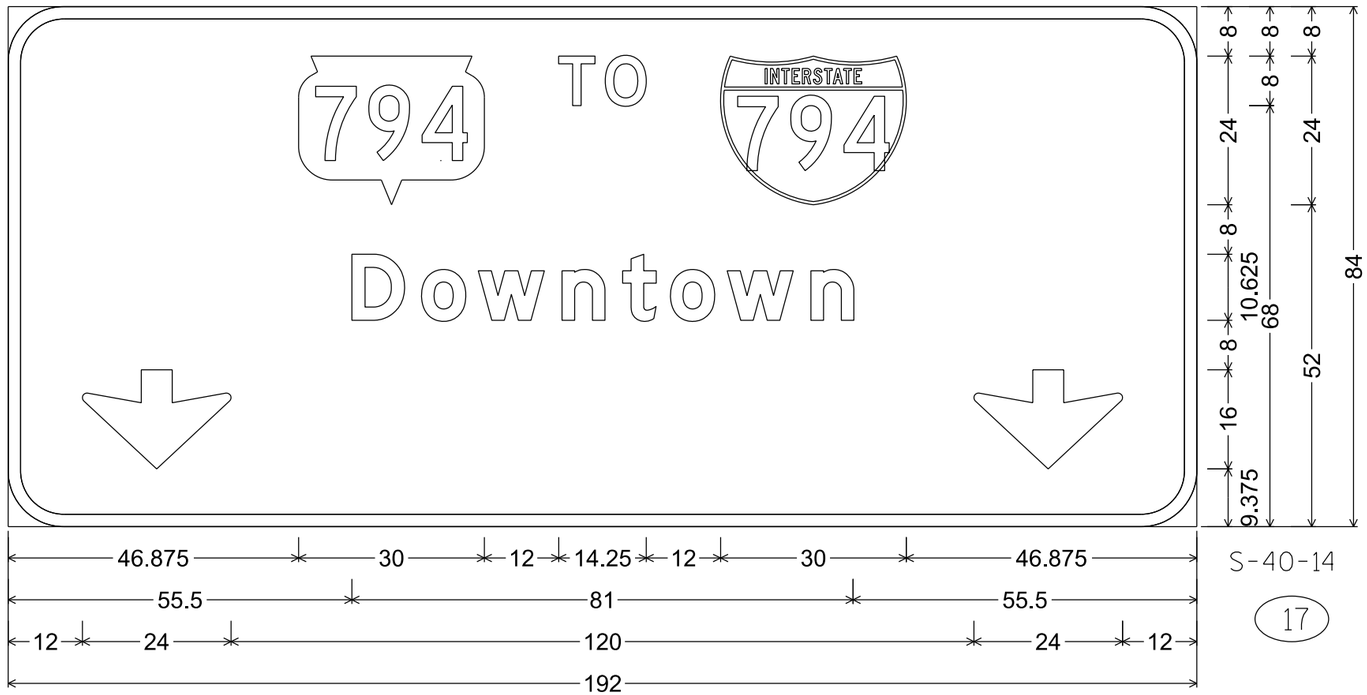
E3-1; 9.000" Radius, 2.000" Border,
"Port", E Mod; "of", E Mod; "Milwaukee", E Mod; "EXIT", E; "3/4", E; "MILE", E



E3-1; 6.000" Radius, 2.000" Border,
"Port", E Mod; "of", E Mod; "Milwaukee", E Mod

NOTES

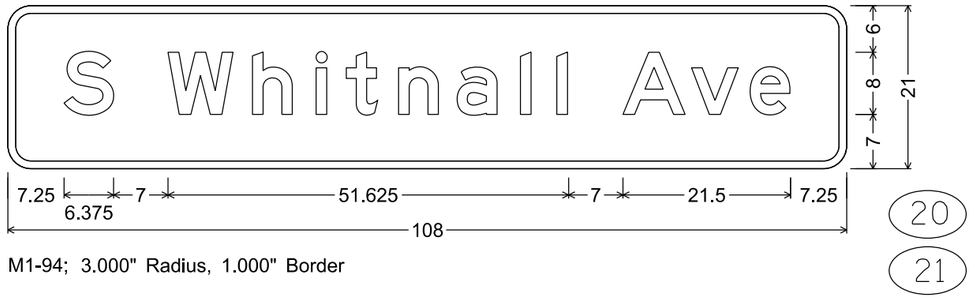
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except as noted
4. ONLY plaque is on Type F Yellow Reflective sheeting with Black Non-Reflective message



E6-51; 9.000" Radius, 2.000" Border,
"TO", E; "Downtown", E Mod

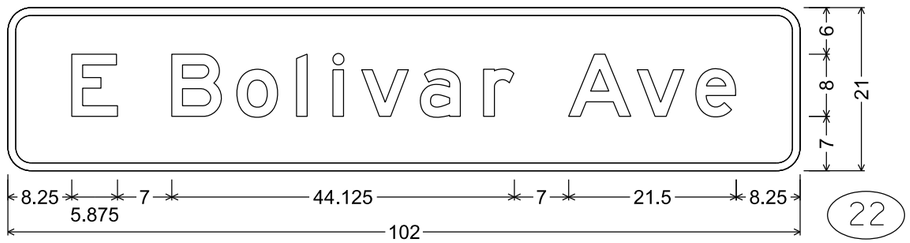
NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



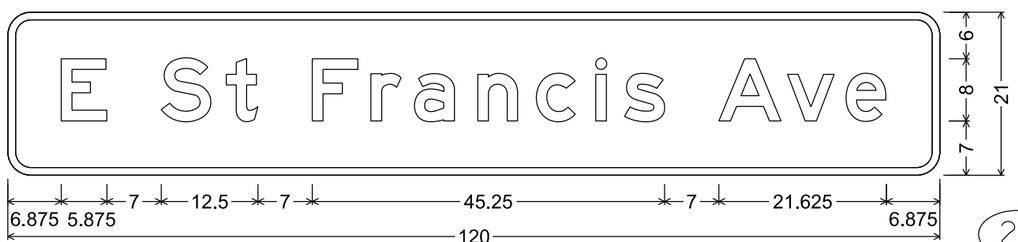
M1-94; 3.000" Radius, 1.000" Border

20
21



M1-94; 3.000" Radius, 1.000" Border

22
23



M1-94; 3.000" Radius, 1.000" Border

24
25

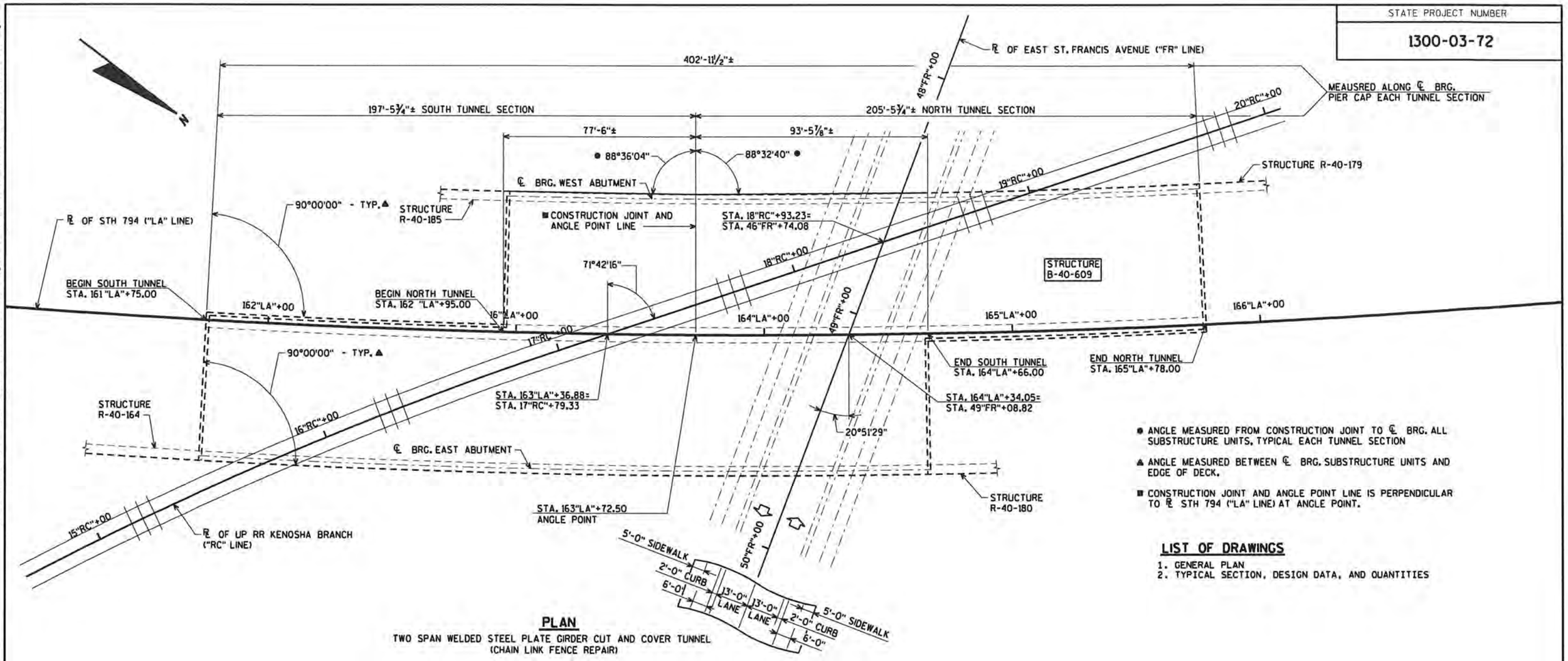
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7

PROJECT NO: 1300-03-72	HWY: STH 794	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET NO: 380	E

STATE PROJECT NUMBER

1300-03-72



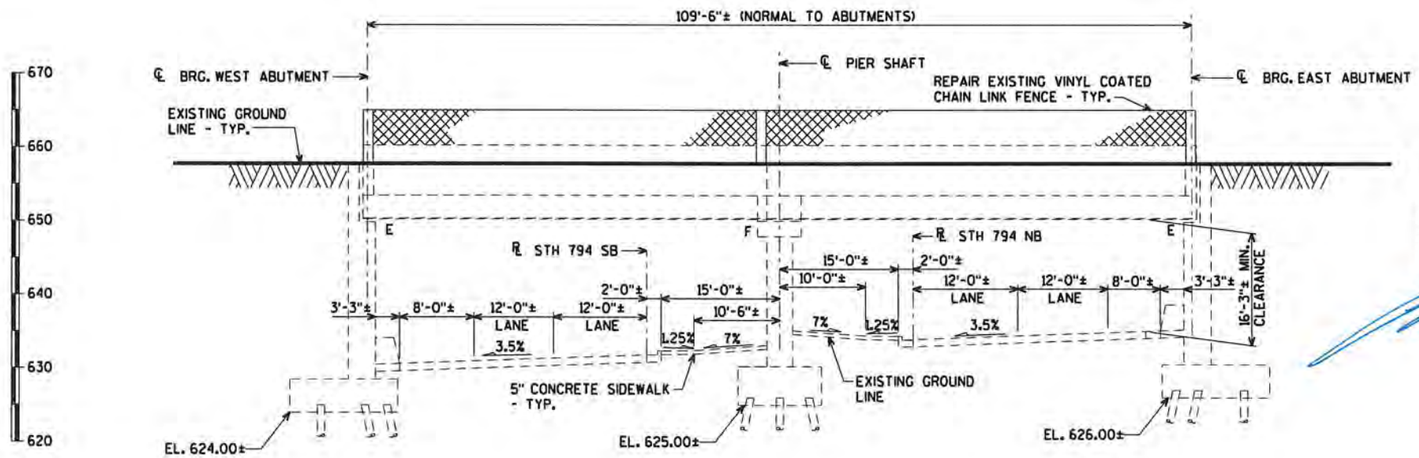
PLAN

TWO SPAN WELDED STEEL PLATE GIRDER CUT AND COVER TUNNEL
(CHAIN LINK FENCE REPAIR)

- ● ANGLE MEASURED FROM CONSTRUCTION JOINT TO ℄ BRG. ALL SUBSTRUCTURE UNITS, TYPICAL EACH TUNNEL SECTION
- ▲ ANGLE MEASURED BETWEEN ℄ BRG. SUBSTRUCTURE UNITS AND EDGE OF DECK.
- ■ CONSTRUCTION JOINT AND ANGLE POINT LINE IS PERPENDICULAR TO ℄ STH 794 ("LA" LINE) AT ANGLE POINT.

LIST OF DRAWINGS

1. GENERAL PLAN
2. TYPICAL SECTION, DESIGN DATA, AND QUANTITIES



ELEVATION

(LOOKING NORTH)

FOR TYPICAL SECTION AND DESIGN DATA SEE SHEET 2

WISCONSIN
CHRISTOPHER B. McMAHON
E-29454
EAU CLAIRE
WI
PROFESSIONAL ENGINEER
8/25/2020

BRIDGE OFFICE CONTACT:
AARON BONK
(608)-261-0261

CONSULTANT CONTACT:
CHRIS MCMAHON
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 11/17/20
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-40-609

EAST ST. FRANCIS AVENUE AND UP RR OVER STH 794

COUNTY	MILWAUKEE	~~TOWN~~/CITY/~~VILLAGE~~	ST. FRANCIS
DESIGN SPEC.	REHABILITATION		N/A
DESIGNED BY	CBM	DESIGN CK'D.	---
DRAWN BY	CJM/JLB	PLANS CK'D.	CBM

GENERAL PLAN

SHEET 1 OF 2

381

8

8

DATE:
DATE:
DATE:

CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

I.D.

DATE:

8/24/2020

PENTABLE:BRegu_shd_util.tbl

$PRFNAME$
I:\42\45-0447.00 - STH 794 Rehabilitations\Bridges\B-40-0609\Structure\Final\B400609 GP.dgn

STATE PROJECT NUMBER
1300-03-72

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
SPV.0090.01	VINYL COATED CHAIN LINK FENCE REPAIR	LF	445

NOTE:
REPLACE THE TENSION BARS AND TENSION BANDS AND ALL OTHER CONNECTION HARDWARE ON THE VINYL COATED CHAIN LINK FENCE.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DIMENSIONS SHOWN ARE BASED ON ORIGINAL STRUCTURE PLANS.
ORIGINAL CONSTRUCTION YEAR IS 1998.

DESIGN DATA

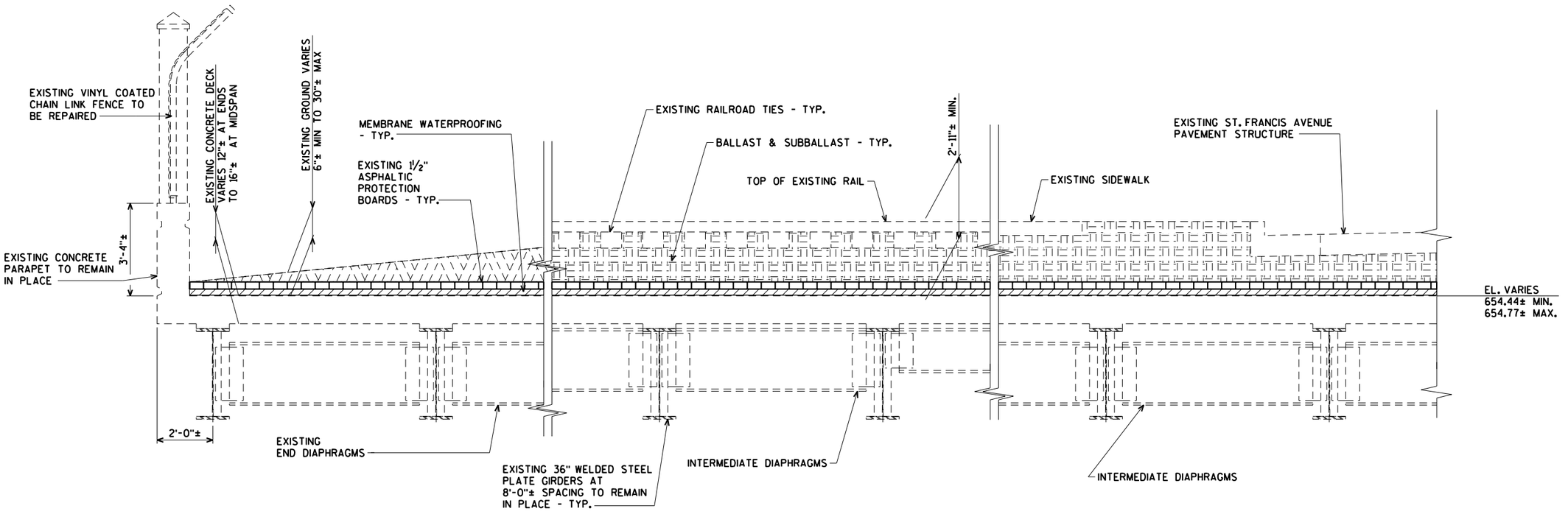
LIVE LOAD:

DESIGN LOADING: HS-20
INVENTORY RATING: HS-70
OPERATING RATING: HS-90
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

TRAFFIC DATA:

ST. FRANCIS AVENUE
A.D.T. = 2,300 (2020)
A.D.T. = 2,500 (2040)
R.D.S. = 30 M.P.H.

STH 794
A.D.T. = 26,375 (2020)
A.D.T. = 30,550 (2040)
R.D.S. = 40 M.P.H.



AT ENDS | AT UP RR | AT ST. FRANCIS AVENUE

TYPICAL TRANSVERSE SECTIONS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-609

DRAWN BY CJM/JLB | PLANS CK'D. CBM

TYPICAL SECTION, DESIGN DATA, AND QUANTITIES

SHEET 2 OF 2
382

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

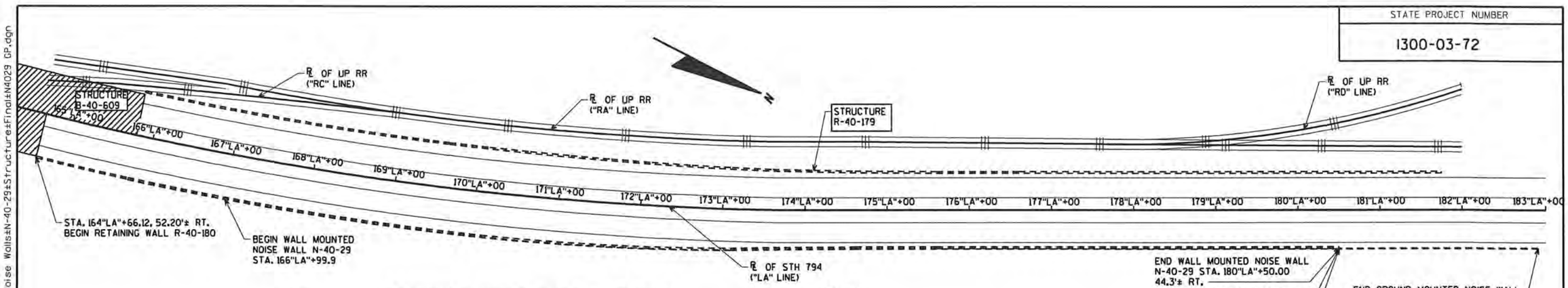
$PRFNAME$
I:\42\45-0447.00 - STH 794 Rehabilitations\Bridges\B-40-0609\Structure\Final\B400609 GP.dgn

8/24/2020

PENTABLE:BReau_shd_util.tbl

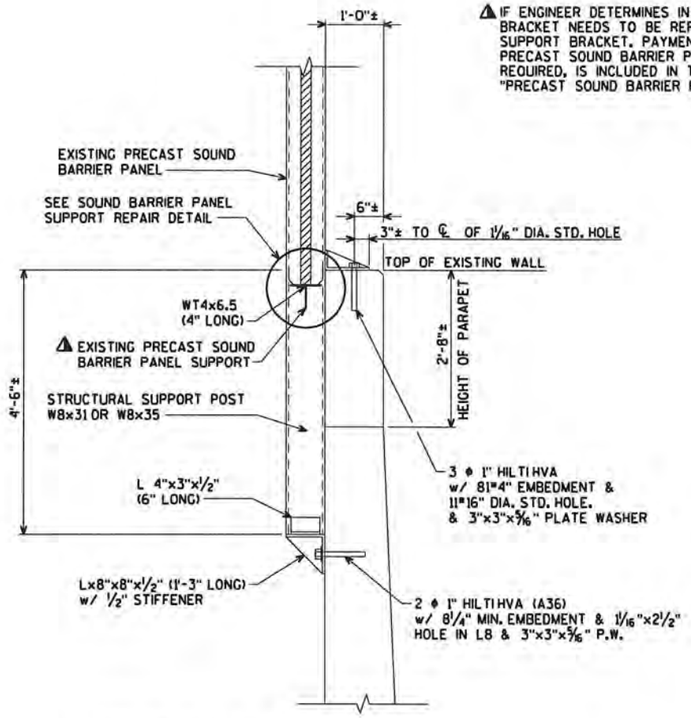
STATE PROJECT NUMBER

1300-03-72



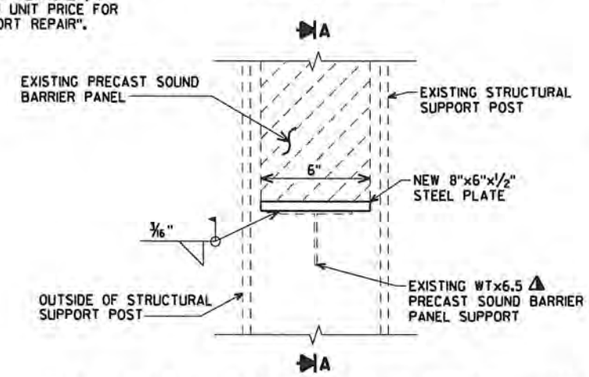
PLAN

PRECAST CONCRETE PANEL NOISE WALL
(REPAIR SUPPORT BRACKETS & PAINT)



STRUCTURE MOUNT CONNECTION

⚠ IF ENGINEER DETERMINES IN THE FIELD THAT THE EXISTING BRACKET NEEDS TO BE REPLACED, REPLACE THE EXISTING SUPPORT BRACKET. PAYMENT FOR REPLACING THE EXISTING PRECAST SOUND BARRIER PANEL SUPPORT BRACKET, IF REQUIRED, IS INCLUDED IN THE BID ITEM UNIT PRICE FOR "PRECAST SOUND BARRIER PANEL SUPPORT REPAIR".



SOUND BARRIER PANEL SUPPORT REPAIR DETAIL

20 REQUIRED

REPAIR SEQUENCE

1. LOCATE SOUND PANELS THAT HAVE SETTLED PAST THE EXISTING SUPPORT BRACKETS.

2. REMOVE AND SALVAGE EXISTING SETTLED SOUND PANELS OUT FROM THE STRUCTURAL SUPPORT POSTS BY LIFTING THEM OUT. COST TO REMOVE, STORE, AND REINSTALL THE SOUND PANELS IS INCLUDED IN THE BID ITEM 'REMOVING OLD STRUCTURE STA. 174'LA'+95 RT.'. ANY DAMAGE TO THE SOUND PANELS CAUSED BY THE CONTRACTOR DURING REMOVAL, STORAGE OR REINSTALLING THE PANELS SHALL BE REPAIRED BY THE CONTRACTOR. COST FOR REPAIRING DAMAGED SOUND PANELS SHALL BE INCIDENTAL TO 'REMOVING OLD STRUCTURE STA. 174'LA'+95 RT.'.

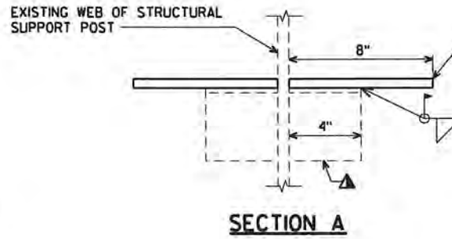
3. REPAIR SOUND BARRIER PANEL SUPPORT BRACKETS AS SHOWN IN THE DETAILS. ⚠

4. FIELD PAINT REPAIRED SOUND BARRIER PANEL SUPPORT BRACKETS. PAINT SHALL BE BROWN, AMS STANDARD COLOR NO. 20059.

5. CLEAN RUSTED AREAS OF STRUCTURAL SUPPORT POSTS TO BARE METAL AND APPLY PRIMER AND INTERMEDIATE COATS TO THE AREAS.

6. OVERCOAT PAINT ALL THE STRUCTURAL SUPPORT POSTS AND BRACKETS. PAINT SHALL BE BROWN, AMS STANDARD COLOR NO. 20059.

7. REINSTALL SALVAGED SOUND PANELS.



SECTION A

DESIGN DATA

MATERIAL PROPERTIES:
STRUCTURAL CARBON STEEL
ASTM A36 f_y = 36,000 p.s.i.

TRAFFIC DATA:
STH 794
A.D.T. = 26,375 (2020)
A.D.T. = 30,550 (2040)
R.D.S. = 50 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
ORIGINAL CONSTRUCTION YEAR IS 1999.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
203.0200.01	REMOVING OLD STRUCTURE STA. 174'LA'+95 RT.	LS	1
517.3000.S.01	STRUCTURE OVERCOATING CLEANING AND PRIMING N-40-29	LS	1
◑ SPV.0060.01	PRECAST SOUND BARRIER PANEL SUPPORT REPAIR	EACH	20

◑ UNDISTRIBUTED LOCATIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.
REPAIR BOTH SIDES OF SOUND PANEL WHEN REPAIRS ARE MADE.

WISCONSIN
CHRISTOPHER B. McMAHON
E-29454
EAU CLAIRE
WI
PROFESSIONAL ENGINEER
8/25/2020

BRIDGE OFFICE CONTACT:
AARON BONK
(608)-261-0261

CONSULTANT CONTACT:
CHRIS MCMAHON
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

state of wisconsin
department of transportation

ACCEPTED SDR 11/17/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE N-40-29

STH 794 NOISE WALL

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
MILWAUKEE	MILWAUKEE

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	CBM	DESIGN CK'D.	---	DRAWN BY	JLB	PLANS CK'D.	CBM

GENERAL PLAN

SHEET 1 OF 1

383

DATE: DATE: DATE:
CHECKED BY: BACK CHECKED BY: CORRECTED BY:

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$PRFNAME$
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8/24/2020

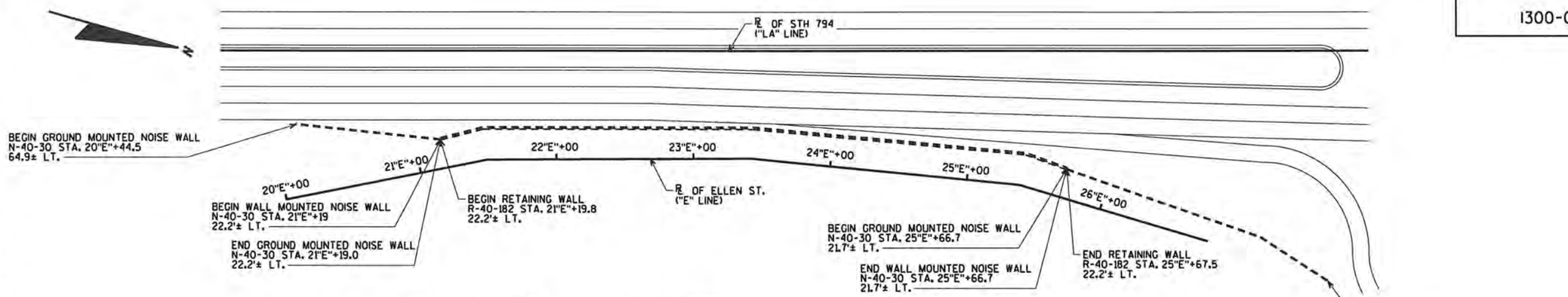
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DATE:

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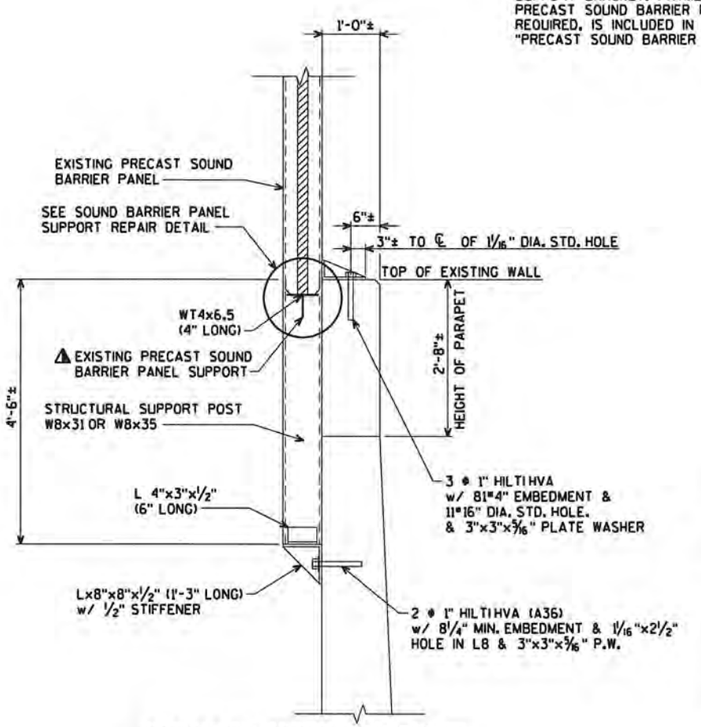
STATE PROJECT NUMBER
1300-03-72



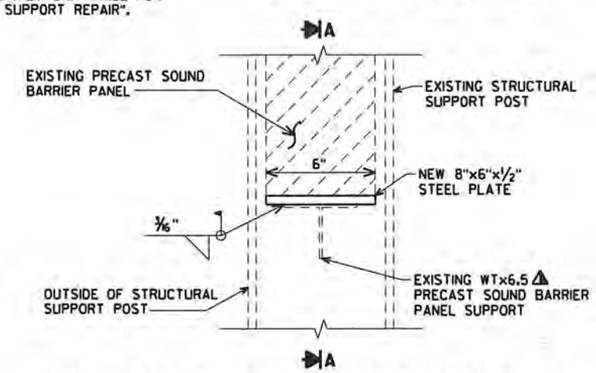
PLAN

PRECAST CONCRETE PANEL NOISE WALL
(REPAIR SUPPORT BRACKETS & PAINT)

⚠ IF ENGINEER DETERMINES IN THE FIELD THAT THE EXISTING BRACKET NEEDS TO BE REPLACED, REPLACE THE EXISTING SUPPORT BRACKET. PAYMENT FOR REPLACING THE EXISTING PRECAST SOUND BARRIER PANEL SUPPORT BRACKET, IF REQUIRED, IS INCLUDED IN THE BID ITEM UNIT PRICE FOR "PRECAST SOUND BARRIER PANEL SUPPORT REPAIR".

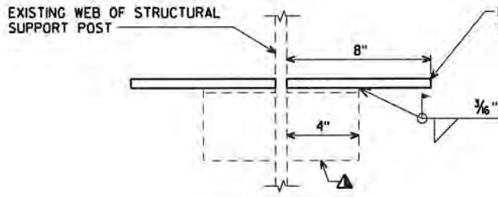


STRUCTURE MOUNT CONNECTION



SOUND BARRIER PANEL SUPPORT REPAIR DETAIL

20 REQUIRED



SECTION A

REPAIR SEQUENCE

1. LOCATE SOUND PANELS THAT HAVE SETTLED PAST THE EXISTING SUPPORT BRACKETS.

2. REMOVE AND SALVAGE EXISTING SETTLED SOUND PANELS OUT FROM THE STRUCTURAL SUPPORT POSTS BY LIFTING THEM OUT. COST TO REMOVE, STORE, AND REINSTALL THE SOUND PANELS IS INCLUDED IN THE BID ITEM 'REMOVING OLD STRUCTURE STA. 23'E'+70 LT.'. ANY DAMAGE TO THE SOUND PANELS CAUSED BY THE CONTRACTOR DURING REMOVAL, STORAGE OR REINSTALLING THE PANELS SHALL BE REPAIRED BY THE CONTRACTOR. COST FOR REPAIRING DAMAGED SOUND PANELS SHALL BE INCIDENTAL TO 'REMOVING OLD STRUCTURE STA. 23'E'+70 LT.'.

3. REPAIR SOUND BARRIER PANEL SUPPORT BRACKETS AS SHOWN IN THE DETAILS. ⚠

4. FIELD PAINT REPAIRED SOUND BARRIER PANEL SUPPORT BRACKETS. PAINT SHALL BE BROWN, AMS STANDARD COLOR NO. 20059.

5. CLEAN RUSTED AREAS OF STRUCTURAL SUPPORT POSTS TO BARE METAL AND APPLY PRIMER AND INTERMEDIATE COATS TO THE AREAS.

6. OVERCOAT PAINT ALL THE STRUCTURAL SUPPORT POSTS AND BRACKETS. PAINT SHALL BE BROWN, AMS STANDARD COLOR NO. 20059.

7. REINSTALL SALVAGED SOUND PANELS.

DESIGN DATA

MATERIAL PROPERTIES:
STRUCTURAL CARBON STEEL
ASTM A36 f_y = 36,000 p.s.i.

TRAFFIC DATA:
STH 794
A.D.T. = 26,375 (2020)
A.D.T. = 30,550 (2040)
R.D.S. = 50 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
ORIGINAL CONSTRUCTION YEAR IS 1999.

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
	203.0200.02	REMOVING OLD STRUCTURE STA. 23'E'+70 LT.	LS	1
	517.3000.S.02	STRUCTURE OVERCOATING CLEANING AND PRIMING N-40-30	LS	1
◑	SPV.0060.01	PRECAST SOUND BARRIER PANEL SUPPORT REPAIR	EACH	20

◑ UNDISTRIBUTED LOCATIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.
REPAIR BOTH SIDES OF SOUND PANEL WHEN REPAIRS ARE MADE.

WISCONSIN
CHRISTOPHER B. McMAHON
E-29454
EAU CLAIRE
WI
PROFESSIONAL ENGINEER
8/25/2020

BRIDGE OFFICE CONTACT:
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(608)-261-0261

CONSULTANT CONTACT:
CHRIS MCMAHON
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

state of wisconsin
department of transportation

ACCEPTED SDR 11/17/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE N-40-30

STH 794 NOISE WALL

COUNTY MILWAUKEE | ~~TOWN~~/CITY/~~VILLAGE~~ MILWAUKEE

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	CBM	DESIGN CK'D.	---	DRAWN BY	JLB	PLANS CK'D.	CBM

GENERAL PLAN

SHEET 1 OF 1

384

DATE: DATE: DATE:
CHECKED BY: BACK CHECKED BY: CORRECTED BY:

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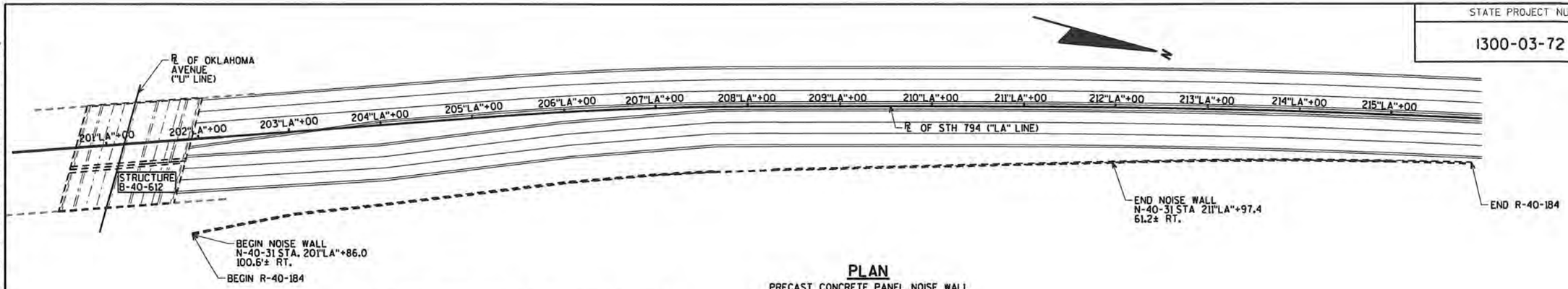
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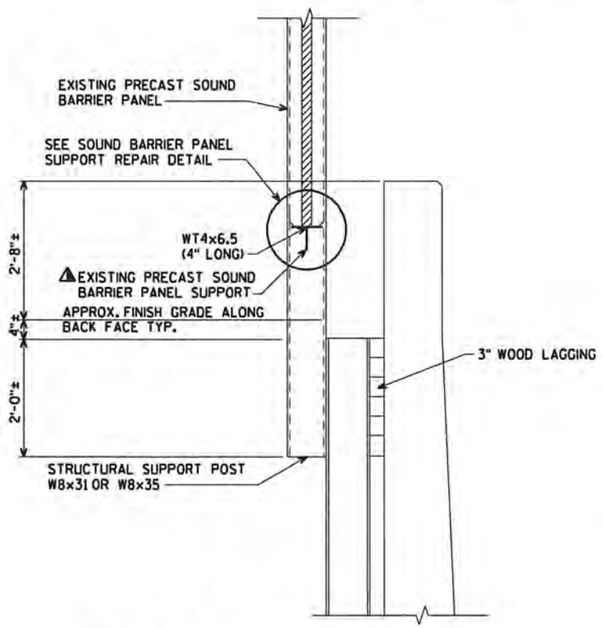
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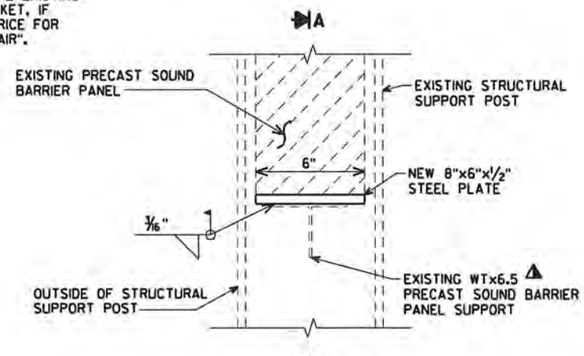
PLAN

PRECAST CONCRETE PANEL NOISE WALL
(REPAIR SUPPORT BRACKETS & PAINT)

⚠ IF ENGINEER DETERMINES IN THE FIELD THAT THE EXISTING BRACKET NEEDS TO BE REPLACED, REPLACE THE EXISTING SUPPORT BRACKET. PAYMENT FOR REPLACING THE EXISTING PRECAST SOUND BARRIER PANEL SUPPORT BRACKET, IF REQUIRED, IS INCLUDED IN THE BID ITEM UNIT PRICE FOR "PRECAST SOUND BARRIER PANEL SUPPORT REPAIR".

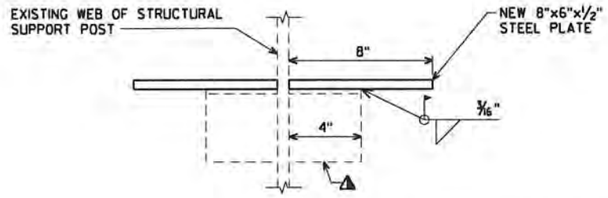


STRUCTURE MOUNT CONNECTION



SOUND BARRIER PANEL SUPPORT REPAIR DETAIL

50 REQUIRED



SECTION A

REPAIR SEQUENCE

1. LOCATE SOUND PANELS THAT HAVE SETTLED PAST THE EXISTING SUPPORT BRACKETS.

2. REMOVE AND SALVAGE EXISTING SETTLED SOUND PANELS OUT FROM THE STRUCTURAL SUPPORT POSTS BY LIFTING THEM OUT. COST TO REMOVE, STORE, AND REINSTALL THE SOUND PANELS IS INCLUDED IN THE BID ITEM 'REMOVING OLD STRUCTURE STA. 206'LA'+92 RT.'. ANY DAMAGE TO THE SOUND PANELS CAUSED BY THE CONTRACTOR DURING REMOVAL, STORAGE OR REINSTALLING THE PANELS SHALL BE REPAIRED BY THE CONTRACTOR. COST FOR REPAIRING DAMAGED SOUND PANELS SHALL BE INCIDENTAL TO 'REMOVING OLD STRUCTURE STA. 206'LA'+92 RT.'.

3. REPAIR SOUND BARRIER PANEL SUPPORT BRACKETS AS SHOWN IN THE DETAILS. ⚠

4. FIELD PAINT REPAIRED SOUND BARRIER PANEL SUPPORT BRACKETS. PAINT SHALL BE BROWN, AMS STANDARD COLOR NO. 20059.

5. CLEAN RUSTED AREAS OF STRUCTURAL SUPPORT POSTS TO BARE METAL AND APPLY PRIMER AND INTERMEDIATE COATS TO THE AREAS.

6. OVERCOAT PAINT ALL THE STRUCTURAL SUPPORT POSTS AND BRACKETS. PAINT SHALL BE BROWN, AMS STANDARD COLOR NO. 20059.

7. REINSTALL SALVAGED SOUND PANELS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
ORIGINAL CONSTRUCTION YEAR IS 1999.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
203.0200.03	REMOVING OLD STRUCTURE STA. 206'LA'+92 RT.	LS	1
517.3000.S.03	STRUCTURE OVERCOATING CLEANING AND PRIMING N-40-31	LS	1
◑ SPV.0060.01	PRECAST SOUND BARRIER PANEL SUPPORT REPAIR	EACH	50

◑ UNDISTRIBUTED LOCATIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.
REPAIR BOTH SIDES OF SOUND PANEL WHEN REPAIRS ARE MADE.

DESIGN DATA

MATERIAL PROPERTIES:
STRUCTURAL CARBON STEEL
ASTM A36 f_y = 36,000 p.s.i.

TRAFFIC DATA:
STH 794
A.D.T. = 26,375 (2020)
A.D.T. = 30,550 (2040)
R.D.S. = 50 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN

CHRISTOPHER B. McMAHON E-29454 EAU CLAIRE WI PROFESSIONAL ENGINEER WISCONSIN
8/25/2020

BRIDGE OFFICE CONTACT:
AARON BONK
(608)-261-0261

CONSULTANT CONTACT:
CHRIS MCMAHON
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

state of wisconsin
department of transportation

ACCEPTED SDR 11/17/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE N-40-31

STH 794 NOISE WALL

COUNTY MILWAUKEE | ~~TOWN~~/CITY/~~VILLAGE~~ MILWAUKEE

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	CBM	DESIGN CK'D.	---	DRAWN BY	JLB	PLANS CK'D.	CBM

GENERAL PLAN

SHEET 1 OF 1

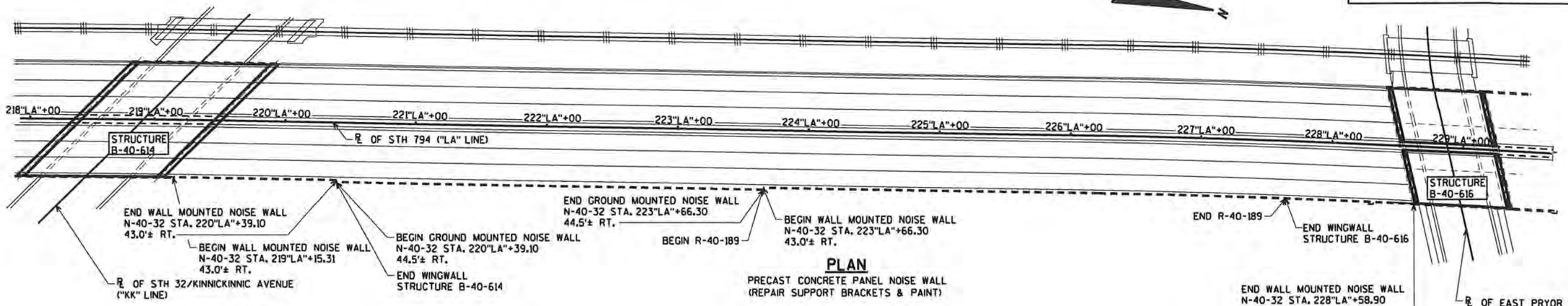
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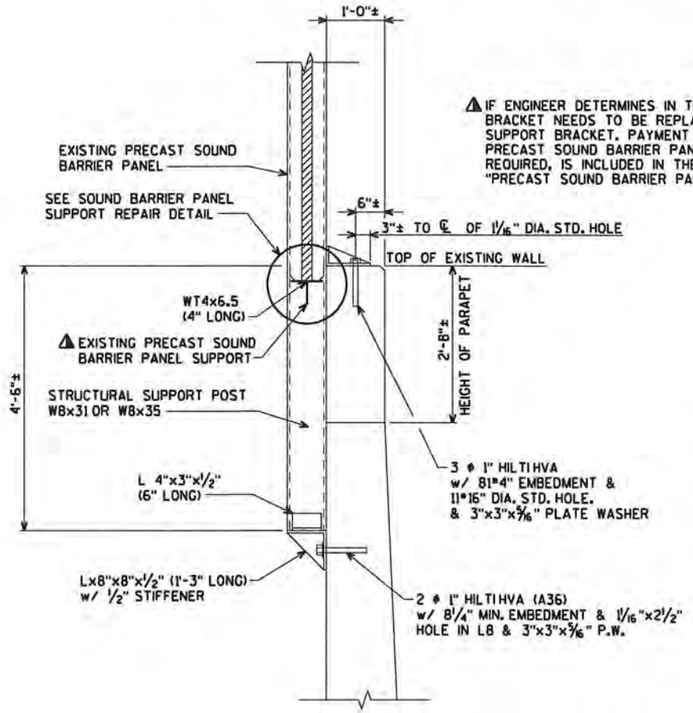
STATE PROJECT NUMBER

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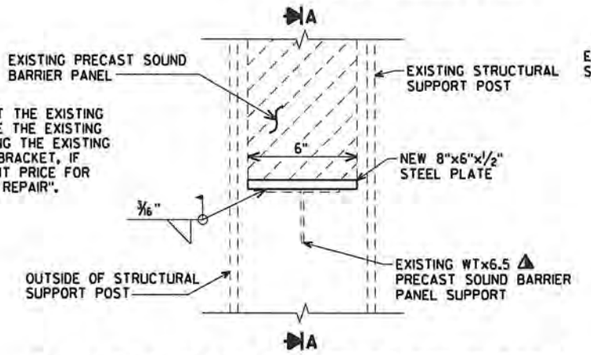


PLAN

PRECAST CONCRETE PANEL NOISE WALL
(REPAIR SUPPORT BRACKETS & PAINT)



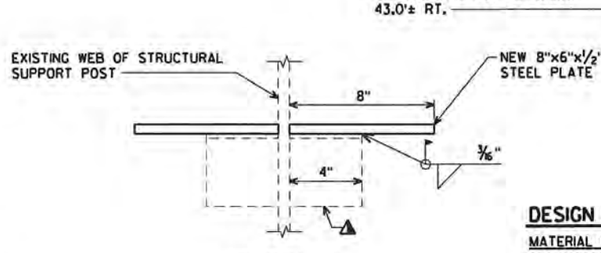
STRUCTURE MOUNT CONNECTION



⚠ IF ENGINEER DETERMINES IN THE FIELD THAT THE EXISTING BRACKET NEEDS TO BE REPLACED, REPLACE THE EXISTING SUPPORT BRACKET. PAYMENT FOR REPLACING THE EXISTING PRECAST SOUND BARRIER PANEL SUPPORT BRACKET, IF REQUIRED, IS INCLUDED IN THE BID ITEM UNIT PRICE FOR "PRECAST SOUND BARRIER PANEL SUPPORT REPAIR".

SOUND BARRIER PANEL SUPPORT REPAIR DETAIL

110 REQUIRED



SECTION A

REPAIR SEQUENCE

1. LOCATE SOUND PANELS THAT HAVE SETTLED PAST THE EXISTING SUPPORT BRACKETS.

2. REMOVE AND SALVAGE EXISTING SETTLED SOUND PANELS OUT FROM THE STRUCTURAL SUPPORT POSTS BY LIFTING THEM OUT. COST TO REMOVE, STORE, AND REINSTALL THE SOUND PANELS IS INCLUDED IN THE BID ITEM "REMOVING OLD STRUCTURE STA. 223'LA'+87 RT.". ANY DAMAGE TO THE SOUND PANELS CAUSED BY THE CONTRACTOR DURING REMOVAL, STORAGE OR REINSTALLING THE PANELS SHALL BE REPAIRED BY THE CONTRACTOR. COST FOR REPAIRING DAMAGED SOUND PANELS SHALL BE INCIDENTAL TO 'REMOVING OLD STRUCTURE STA. 172'LA'+58 RT.'.

3. REPAIR SOUND BARRIER PANEL SUPPORT BRACKETS AS SHOWN IN THE DETAILS. ⚠

4. FIELD PAINT REPAIRED SOUND BARRIER PANEL SUPPORT BRACKETS. PAINT SHALL BE BROWN, AMS STANDARD COLOR NO. 20059.

5. CLEAN RUSTED AREAS OF STRUCTURAL SUPPORT POSTS TO BARE METAL AND APPLY PRIMER AND INTERMEDIATE COATS TO THE AREAS.

6. OVERCOAT PAINT ALL THE STRUCTURAL SUPPORT POSTS AND BRACKETS. PAINT SHALL BE BROWN, AMS STANDARD COLOR NO. 20059.

7. REINSTALL SALVAGED SOUND PANELS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
ORIGINAL CONSTRUCTION YEAR IS 1999.

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
	203.0200.04	REMOVING OLD STRUCTURE STA. 223'LA'+87 RT.	LS	1
	517.3000.S.04	STRUCTURE OVERCOATING CLEANING AND PRIMING N-40-32	LS	1
◑	SPV.0060.01	PRECAST SOUND BARRIER PANEL SUPPORT REPAIR	EACH	20

◑ UNDISTRIBUTED LOCATIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.
REPAIR BOTH SIDES OF SOUND PANEL WHEN REPAIRS ARE MADE.

DESIGN DATA

MATERIAL PROPERTIES:
STRUCTURAL CARBON STEEL
ASTM A36 f_y = 36,000 p.s.i.

TRAFFIC DATA:
STH 794
A.D.T. = 26,375 (2020)
A.D.T. = 30,550 (2040)
R.D.S. = 50 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN

WISCONSIN
CHRISTOPHER B. McMAHON
E-29454
EAU CLAIRE
WI
PROFESSIONAL ENGINEER
8/25/2020

BRIDGE OFFICE CONTACT:
AARON BONK
(608)-261-0261

CONSULTANT CONTACT:
CHRIS MCMAHON
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 11/17/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE N-40-32

STH 794 NOISE WALL

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
MILWAUKEE	MILWAUKEE

DESIGN SPEC.	
REHABILITATION	N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
CBM	---	JLB	CBM

GENERAL PLAN

SHEET 1 OF 1

8

8

$PRFNAME$
I:\42\45-0447.00 - STH 794 Rehabilitations\Noise Walls\N-40-32\Structure\Final\N4032 GP.dgn

8/24/2020

PENTABLE:BRedu_shd_util.tbl

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov