WIS

SEPTEMBER 2021

PROJECT ID:

WITH: NA

1166-06-75, 6290-09-70,71

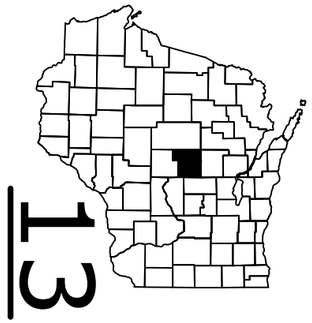
COUNTY:

PORTAGE

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 = 762



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1166-06-75	WISC 2021482	1
6290-09-70	WISC 2021484	1
6290-09-71	WISC 2021494	1

PLAINFIELD - STEVENS POINT
USH 10 B-49-24

IH 39
PORTAGE COUNTY

STATE PROJECT NUMBER
1166-06-75

STEVENS POINT - WAUPACA
SOUTHBOUND IH 39 RAMP TO WILDWOOD DRIVE

USH 10
PORTAGE COUNTY

STATE PROJECT NUMBER
6290-09-70

STEVENS POINT - WAUPACA
COUNTRY CLUB DRIVE INTERSECTION

STH 66
PORTAGE COUNTY

STATE PROJECT NUMBER
6290-09-71

DESIGN DESIGNATION			USH 10/STH 66
A.A.D.T.	2022	=	25,755
A.A.D.T.	2042	=	27,050
D.H.V.		=	NA
D.D.		=	NA
T.		=	13.8%
DESIGN SPEED		=	45
ESALS		=	15,000,000

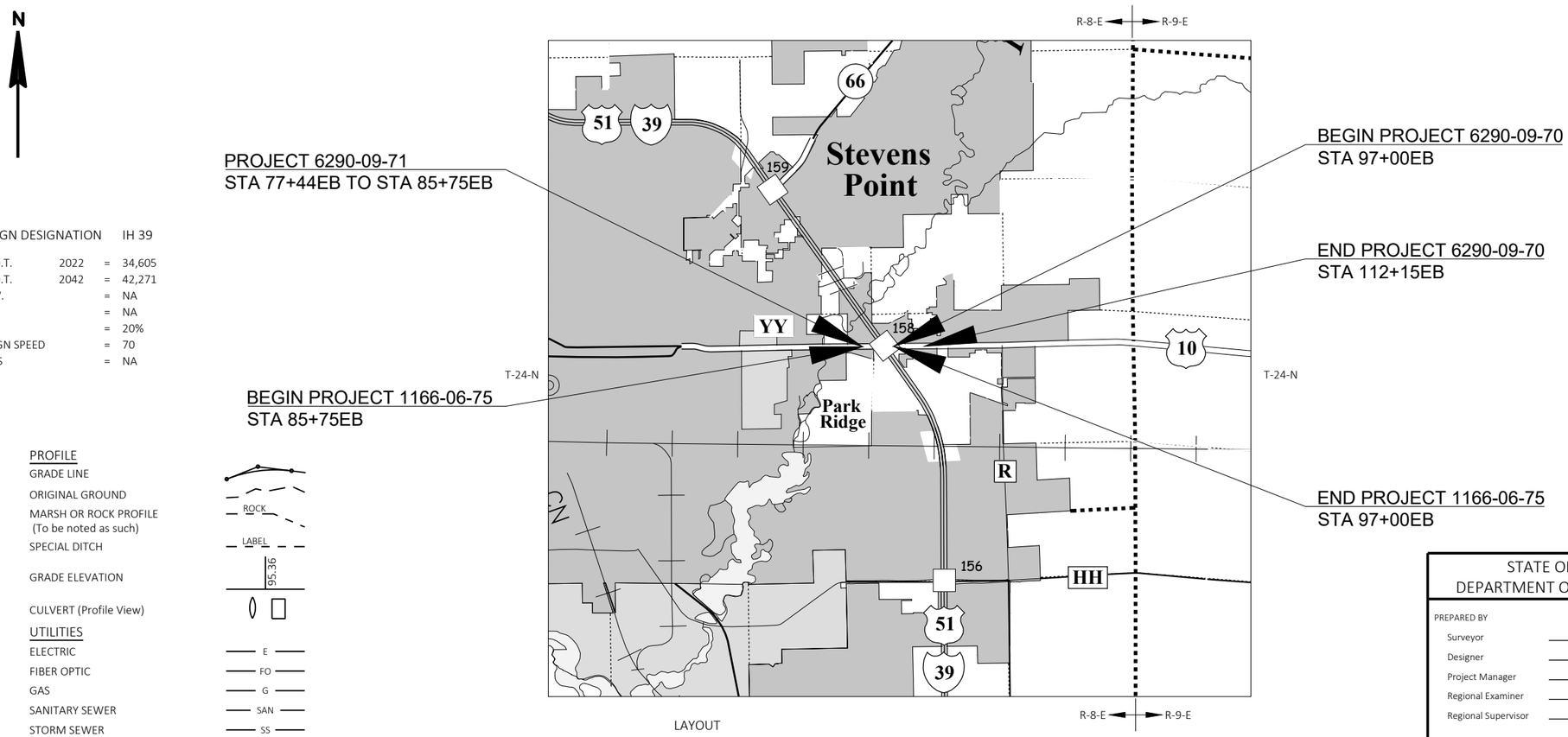
DESIGN DESIGNATION			IH 39
A.A.D.T.	2022	=	34,605
A.A.D.T.	2042	=	42,271
D.H.V.		=	NA
D.D.		=	NA
T.		=	20%
DESIGN SPEED		=	70
ESALS		=	NA

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



LAYOUT
SCALE 0 0.5 MI

TOTAL NET LENGTH OF CENTERLINE = 0.065 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, PORTAGE COUNTY NAD83 (2012), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	REGION
Designer	ZACHARY GRULING
Project Manager	MARK STEIDL
Regional Examiner	CHERYL SIMON
Regional Supervisor	NICHOLE LYSNE

APPROVED FOR THE DEPARTMENT

DATE: 3/17/21 (Signature)

E

FILE NAME : N:\PDS\C3D\11660605\SHEETSPLAN\010101-TI.DWG

PLOT DATE : 3/17/2021 12:00 PM

PLOT BY : GRULING, ZACHARY P

PLOT NAME :

GENERAL NOTES

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

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

SECTION 2 ORDER	AS-BUILT REFERENCE (YEAR)*
General Notes	F 05-3(60) (1967)
Project Overview	1163-02-71 (1969)
Typical Section	6998-01-17 (1981)
Construction Details	6291-02-71 (1990)
Intelligent Transportation Systems	1165-00-63 (1998)
Match Lines	6290-08-70 (1998)
Erosion Control	6351-07-70 (2002)
Storm Sewer	1166-05-73 (2008)
Permanent Signing	6290-05-75 (2016)
Lighting Removal	
Lighting Permanent	*Approval Year (Not Construction)
Signal Removal	
Temporary Signals	
Permanent Signals	
Pavement Marking	
Traffic Control	
Detour Plan	
Alignment Diagram	

Runoff Coefficient Table

	Hydrologic Soil Group											
	A			B			C			D		
	Slope Range (Percent)											
Land Use	0 - 2	2 - 6	6 & Over	0 - 2	2 - 6	6 & Over	0 - 2	2 - 6	6 & Over	0 - 2	2 - 6	6 & Over
Row Crops	0.08 0.22	0.16 0.30	0.22 0.38	0.12 0.26	0.20 0.34	0.27 0.44	0.15 0.30	0.24 0.37	0.33 0.50	0.19 0.34	0.28 0.41	0.38 0.56
Median Strip-Turf	0.19 0.24	0.20 0.26	0.24 0.30	0.19 0.25	0.22 0.28	0.26 0.33	0.20 0.26	0.23 0.30	0.30 0.37	0.20 0.27	0.25 0.32	0.30 0.40
Side Slope Turf			0.25 0.32			0.27 0.34			0.28 0.36			0.30 0.38
Pavement												
Asphalt	0.70 - 0.95											
Concrete	0.80 - 0.95											
Brick	0.70 - 0.80											
Drives, Sidewalks	0.75 - 0.85											
Roofs	0.75 - 0.95											
Gravel Roads, Shoulders	0.40 - 0.60											

Total Project Area = 22.50 Acres
Total Area Expected To Be Disturbed By Construction Activities = 8.44 Acres
1166-06-75: 3.34 Acres
6290-09-70: 4.50 Acres
6290-09-71: 0.60 Acres

UTILITY CONTACTS - 1166-06-75, 6290-09-70, 6290-09-71

AT&T Wisconsin (Communications)
Chuck Bartelt
70 E Division St
Fond Du Lac, WI 54935
(920) 929-1013
(920) 410-5104 (Mobile)
CB1461@ATT.com

Charter Communications (Communications)
Rudi Rudiger
5024 Heffron St
Stevens Point, WI 54481
(715) 204-5339 Mobile
rudi.rudiger@charter.com

City of Stevens Point (Sewer)
Craig Czaikowski
300 Bliss Ave
Stevens Point, WI 54481
(715) 572-0582 (Mobile)
cczaikowski@stevenspoint.com

City of Stevens Point (Water)
Craig Czaikowski
300 Bliss Ave
Stevens Point, WI 54481
(715) 572-0582 (Mobile)
cczaikowski@stevenspoint.com

Wisconsin Public Service (Electricity)
Dean Pieczynski
2001 Plover Rd
Plover, WI 54467
(715) 345-7527
(715) 498-2920
dean.pieczynski@wisconsinpublicservice.com

Wisconsin Public Service (Gas/Petroleum)
Steve Jaecks
2740 S Ashland Ave
Green Bay, WI 54302
(920) 433-1175
steve.jaecks@wisconsinpublicservice.com

Windstream KDL (Communications)
Eric Becker
314 N Danz Ave
Green Bay, WI 54302
(920) 461-9825
eric.becker@windstream.com

ENVIRONMENTAL CONTACTS

WI Department of Natural Resources
473 Griffith Ave
Wisconsin Rapids, WI 54494
Attn: Casey Jones
Phone: (715) 213-6571 (Mobile)
casey.jones@wisconsin.gov

STREET LIGHTING CONTACT

City of Stevens Point
Scott Beduhn
1515 Strongs Avenue
Stevens Point, WI 54481
715-346-1561
sbeduhn@stevenspoint.com

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

2

2

N

END CONSTRUCTION 6290-09-70
NB RAMPS
STA 295+00ZA

BEGIN CONSTRUCTION 6290-09-70
NB RAMPS
STA 283+00ZA

END CONSTRUCTION 6290-09-70
MAPLE BLUFF RD
STA 27+04MB

BEGIN CONSTRUCTION 1166-06-75
STA 85+75EB

BEGIN CONSTRUCTION 6290-09-71
STA 77+44EB

END CONSTRUCTION 6290-09-71
STA 85+75EB

END CONSTRUCTION 6290-09-70
STA 112+15EB

BEGIN CONSTRUCTION 6290-09-70
MAPLE BLUFF RD
STA 20+32MB

END CONSTRUCTION 1166-06-75
BEGIN CONSTRUCTION 6290-09-70
STA 97+00EB

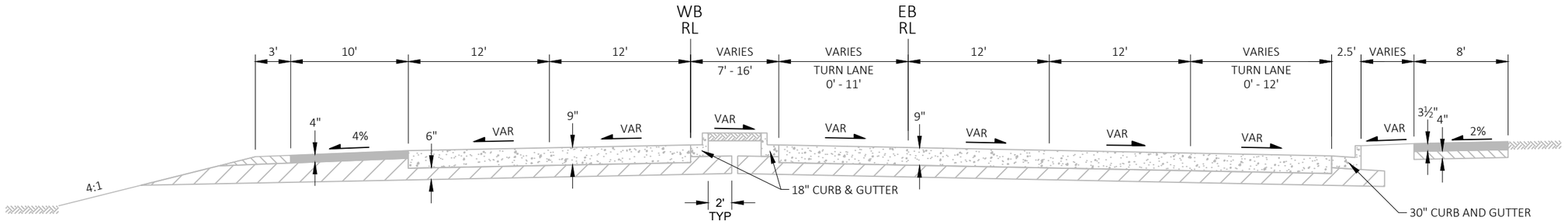
PROJECT 6290-09-70
IH 39 SB RAMP SIGNALS

IH 39/USH 51 SB/USH 10 EB/STH 66 WB
IH 39/USH 51 NB/USH 10 WB/STH 66 EB
PLOVER RIVER
TOWN OF HULL
CITY OF STEVENS POINT
CITY OF STEVENS POINT
TOWN OF HULL
CITY OF STEVENS POINT
TOWN OF HULL
MAPLE BLUFF RD
OLD HWY 18 RD
COUNTRY CLUB DR
IH 39/USH 51 SB
IH 39/USH 51 NB
STH 66
USH 10
B-49-24
S-49-29
S-49-30
75WB
75EB
80WB
80EB
85WB
85EB
90WB
90EB
95WB
95EB
100WB
100EB
105WB
105EB
110EB
115EB
300ZA
295ZA
300ZB
290ZA
295ZB
305ZB
305MB
305ZA
282ZG
284ZG
294ZD
292ZC
292ZD
274ZD
276ZD
278ZD
280ZD
282ZD
284ZD
286ZD
286ZC
284ZC
282ZC
280ZC
278ZC
276ZC
284ZZ
282ZZ
280ZZ

PROJECT NO: 1166-06-75, 6290-09-70/71	HWY: IH 39/USH 10/STH 66	COUNTY: PORTAGE	PROJECT OVERVIEW	SHEET 3	E

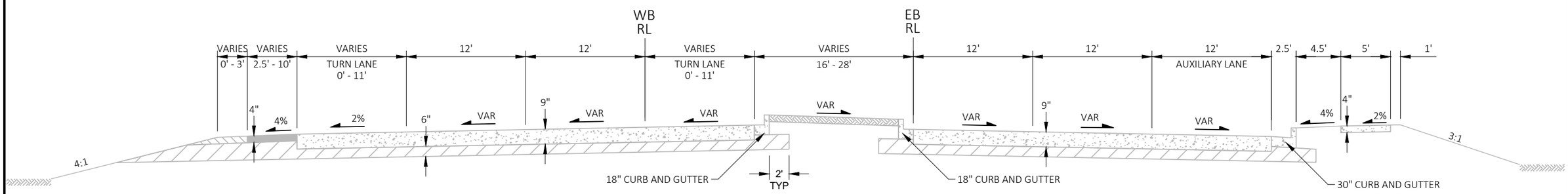
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - 01
PLOT DATE : 4/1/2021 7:29 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:300 FT
WISDOT/CADDS SHEET 42

2



EXISTING TYPICAL SECTION STH 66

STA 78+00 TO STA 81+00



EXISTING TYPICAL SECTION STH 66

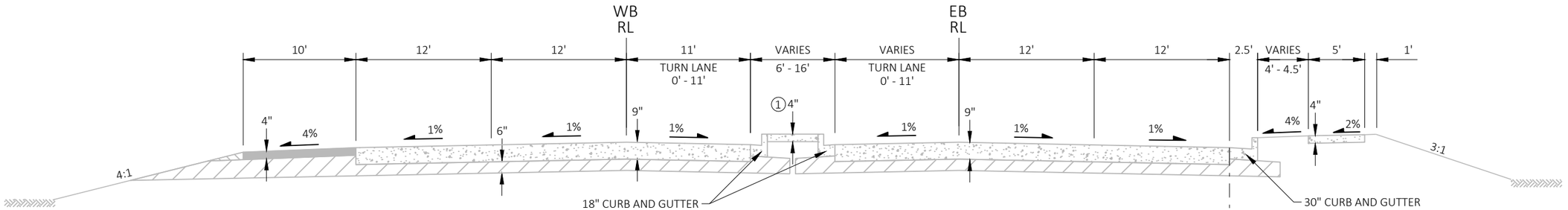
STA 81+00 TO STA 87+50

LEGEND

- EXISTING CONCRETE PAVEMENT
- EXISTING ASPHALTIC CONCRETE PAVEMENT
- EXISTING BASE AGGRAGATE DENSE 3/4-INCH
- EXISTING BASE AGGRAGATE DENSE 1 1/4-INCH
- TOPSOIL/EXISTING GROUND

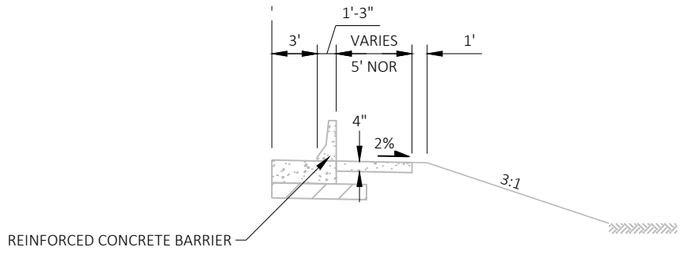
PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 4	E

2



EXISTING TYPICAL SECTION USH 10

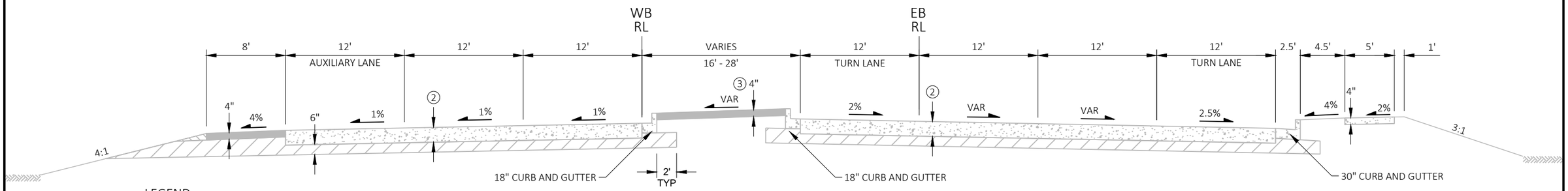
STA 87+50 TO STA 90+11
STA 92+44 TO STA 95+50



CONCRETE PEDESTRIAN BARRIER

STA 89+50 TO STA 90+11
STA 92+44 TO STA 93+64

① TOPSOIL STA 86+50 TO STA 89+15
STA 93+36 TO STA 97+61



LEGEND

- EXISTING CONCRETE PAVEMENT
- EXISTING ASPHALTIC CONCRETE PAVEMENT
- EXISTING BASE AGGRAGATE DENSE 3/4-INCH
- EXISTING BASE AGGRAGATE DENSE 1 1/4-INCH
- TOPSOIL/EXISTING GROUND

EXISTING TYPICAL SECTION USH 10

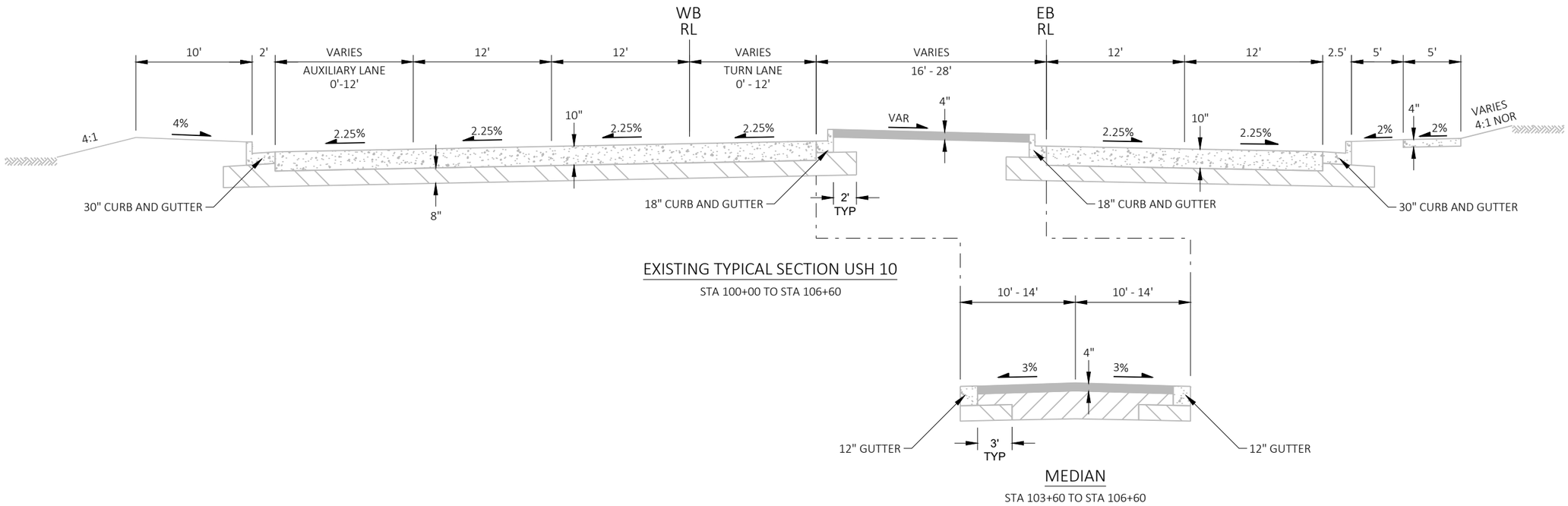
STA 95+50 TO STA 100+00

② 9" STA 95+50 TO STA 98+80
10" STA 98+80 TO STA 100+00

③ TOPSOIL STA 95+68 TO STA 97+61

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 5	E

2

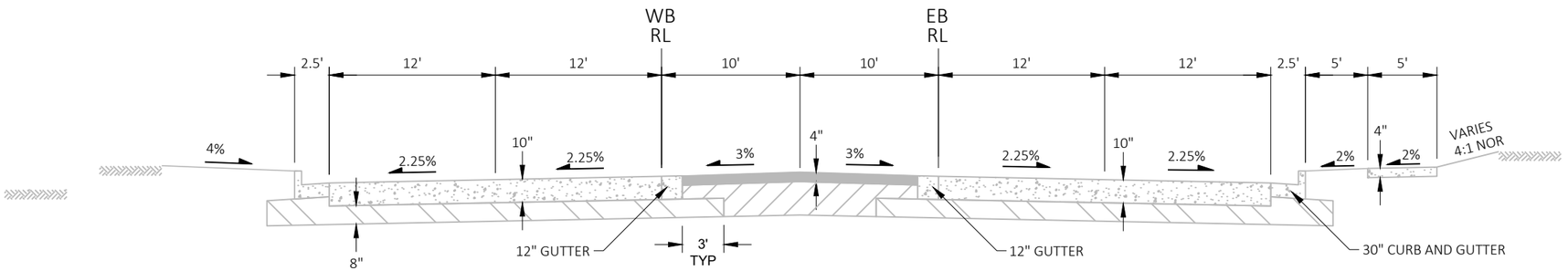


EXISTING TYPICAL SECTION USH 10

STA 100+00 TO STA 106+60

MEDIAN

STA 103+60 TO STA 106+60



LEGEND

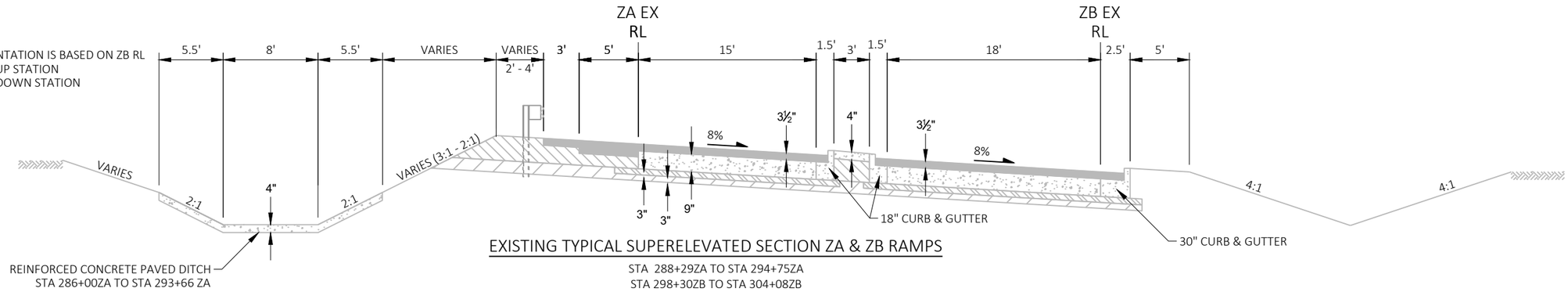
- EXISTING CONCRETE PAVEMENT
- EXISTING ASPHALTIC CONCRETE PAVEMENT
- EXISTING BASE AGGRAGATE DENSE 3/4-INCH
- EXISTING BASE AGGRAGATE DENSE 1 1/4-INCH
- TOPSOIL/EXISTING GROUND

EXISTING TYPICAL SECTION USH 10

STA 106+60 TO STA 112+15

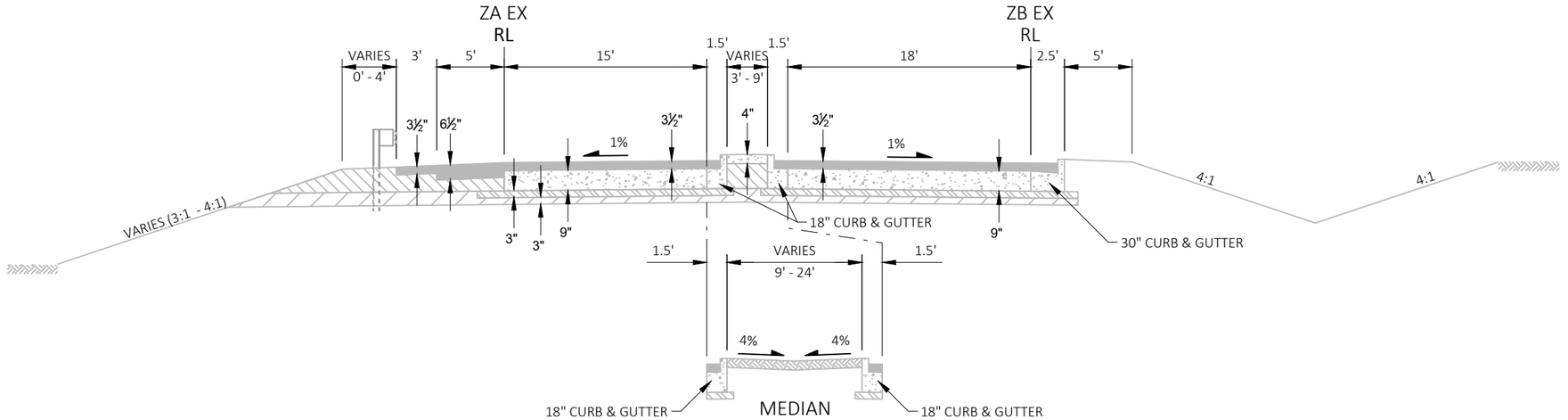
2

NOTE: TYPICAL SECTION ORIENTATION IS BASED ON ZB RL
ZB REFERENCE LINE IS UP STATION
ZA REFERENCE LINE IS DOWN STATION



EXISTING TYPICAL SUPERELEVATED SECTION ZA & ZB RAMPS

STA 288+29ZA TO STA 294+75ZA
STA 298+30ZB TO STA 304+08ZB



MEDIAN

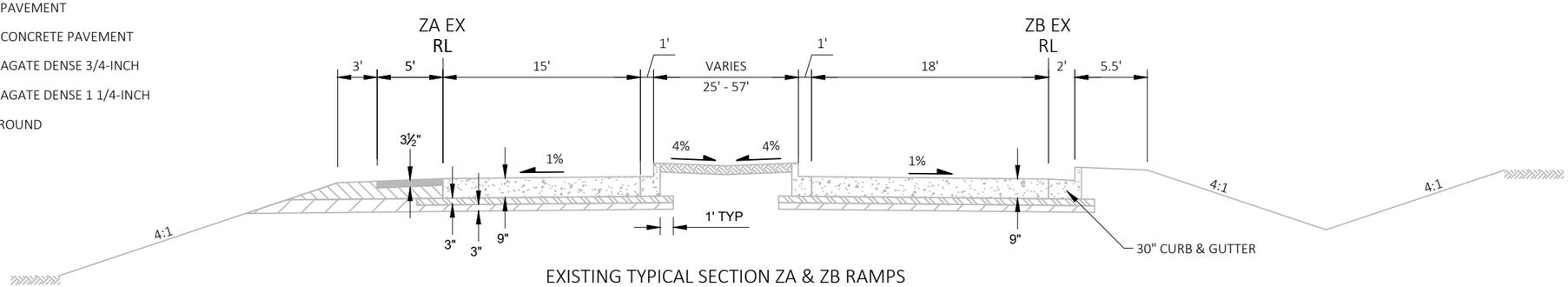
STA 286+90ZA TO STA 288+29ZA
STA 305+47ZB TO STA 307+38ZB

EXISTING TYPICAL SECTION ZA & ZB RAMPS

STA 284+59ZA TO STA 288+29ZA
STA 304+08ZB TO STA 307+38ZB

LEGEND

- EXISTING CONCRETE PAVEMENT
- EXISTING ASPHALTIC CONCRETE PAVEMENT
- EXISTING BASE AGGRAGATE DENSE 3/4-INCH
- EXISTING BASE AGGRAGATE DENSE 1 1/4-INCH
- TOPSOIL/EXISTING GROUND



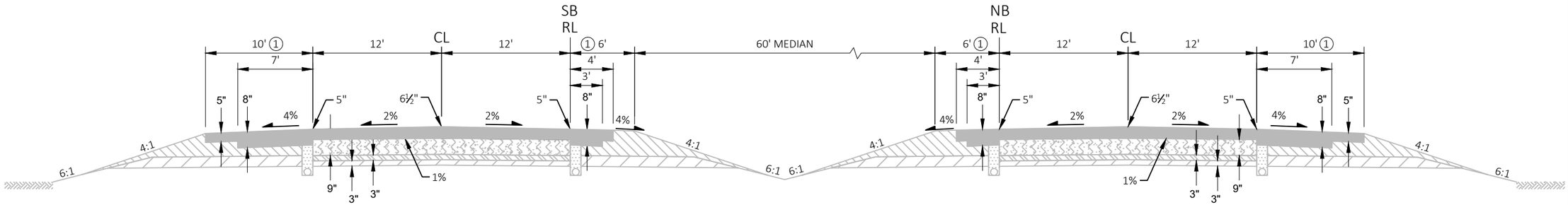
EXISTING TYPICAL SECTION ZA & ZB RAMPS

STA 283+00ZA TO STA 284+59ZA
STA 307+38ZB TO STA 309+33ZB

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 7	E

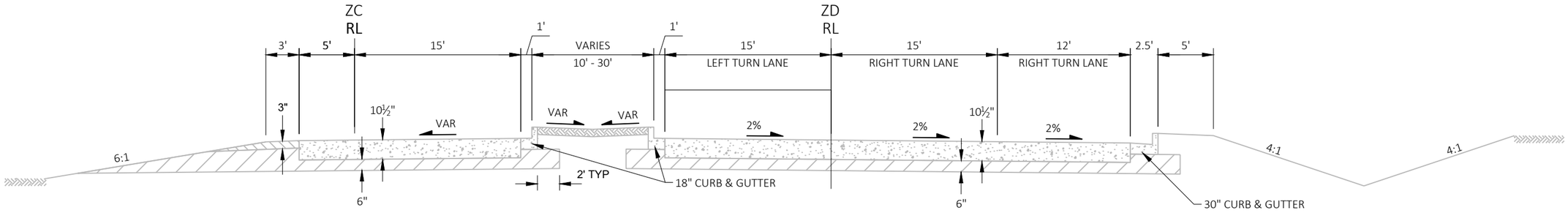
2

① ASPHALTIC SHOULDER RUMBLE STRIPS OFFSET 0.5'



EXISTING TYPICAL SECTION IH 39

STA 1281+21NB TO STA 1292+02NB
STA 1281+29SB TO STA 1300+21SB



EXISTING TYPICAL SECTION ZC & ZD RAMPS

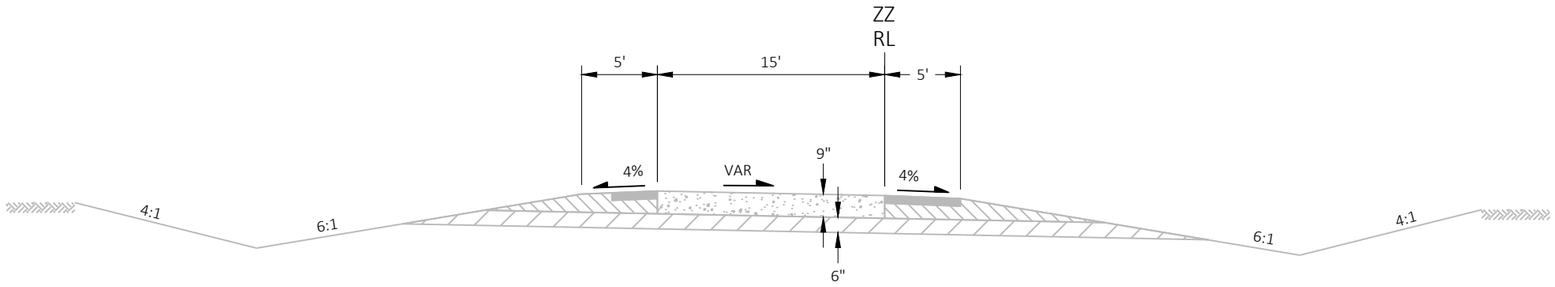
STA 293+58ZC TO STA 294+85ZC
STA 270+47ZD TO STA 271+68ZD

LEGEND

- EXISTING CONCRETE PAVEMENT
- EXISTING ASPHALTIC CONCRETE PAVEMENT
- EXISTING BASE AGGRAGATE DENSE 3/4-INCH
- EXISTING BASE AGGRAGATE DENSE 1 1/4-INCH
- TOPSOIL/EXISTING GROUND

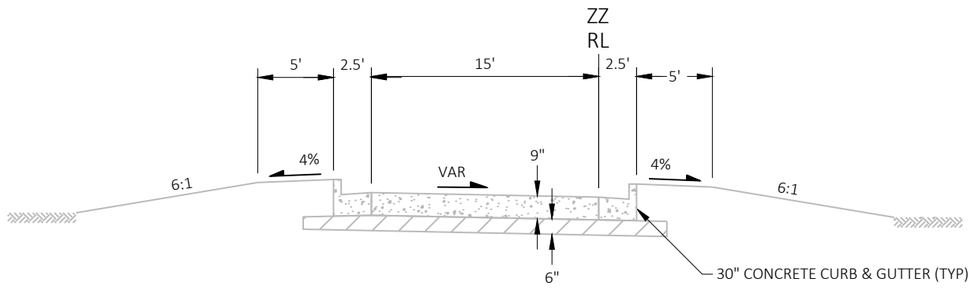
PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 8	E

2



EXISTING TYPICAL SECTION ZZ RAMP

STA 285+30ZZ TO STA 286+43ZZ



EXISTING TYPICAL SECTION ZZ RAMP

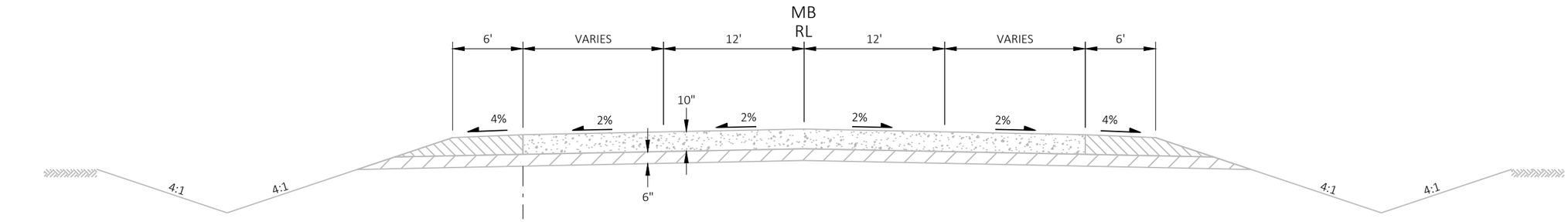
STA 286+43ZZ TO STA 286+90ZZ

LEGEND

- EXISTING CONCRETE PAVEMENT
- EXISTING ASPHALTIC CONCRETE PAVEMENT
- EXISTING BASE AGGRAGATE DENSE 3/4-INCH
- EXISTING BASE AGGRAGATE DENSE 1 1/4-INCH
- TOPSOIL/EXISTING GROUND

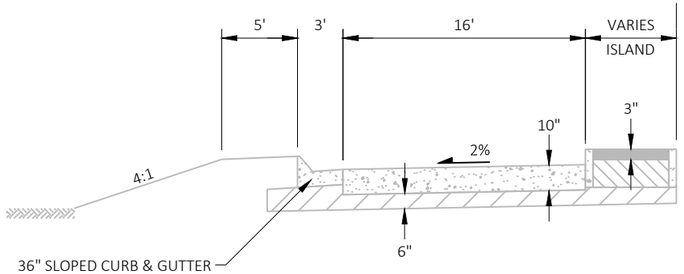
PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 9	E

2



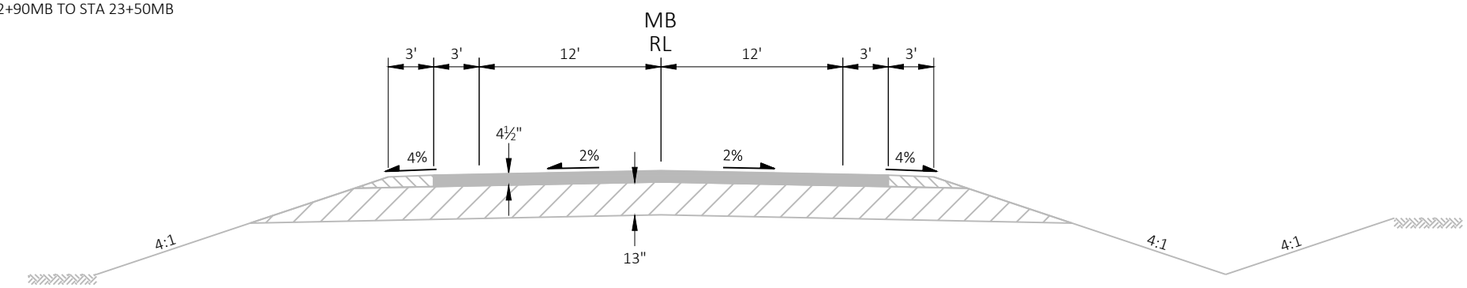
EXISTING TYPICAL SECTION MAPLE BLUFF ROAD

STA 22+90MB TO STA 24+75MB



RIGHT TURN LANE

STA 22+90MB TO STA 23+50MB



EXISTING TYPICAL SECTION MAPLE BLUFF ROAD

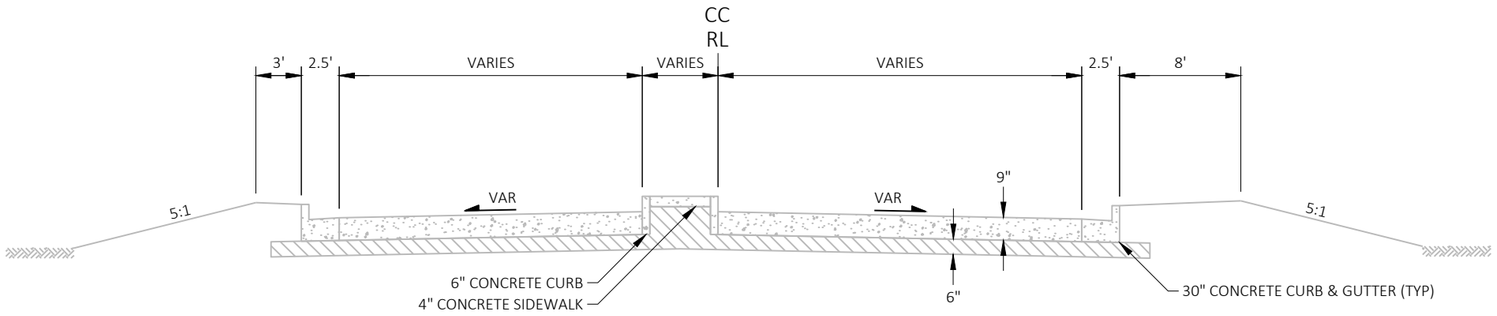
STA 24+75MB TO STA 27+04MB

LEGEND

- EXISTING CONCRETE PAVEMENT
- EXISTING ASPHALTIC CONCRETE PAVEMENT
- EXISTING BASE AGGRAGATE DENSE 3/4-INCH
- EXISTING BASE AGGRAGATE DENSE 1 1/4-INCH
- TOPSOIL/EXISTING GROUND

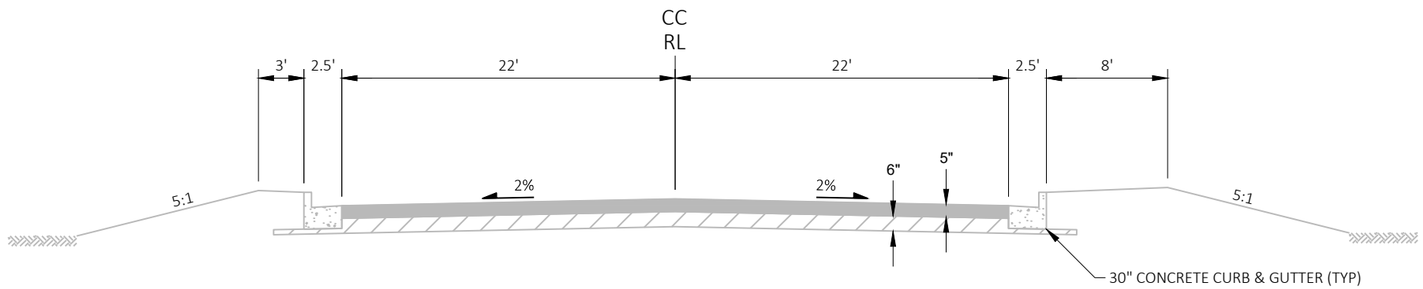
PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 10	E

2



EXISTING TYPICAL SECTION COUNTRY CLUB DRIVE

STA 62+50CC TO STA 63+32CC



EXISTING TYPICAL SECTION COUNTRY CLUB DRIVE

STA 61+66CC TO STA 62+50CC

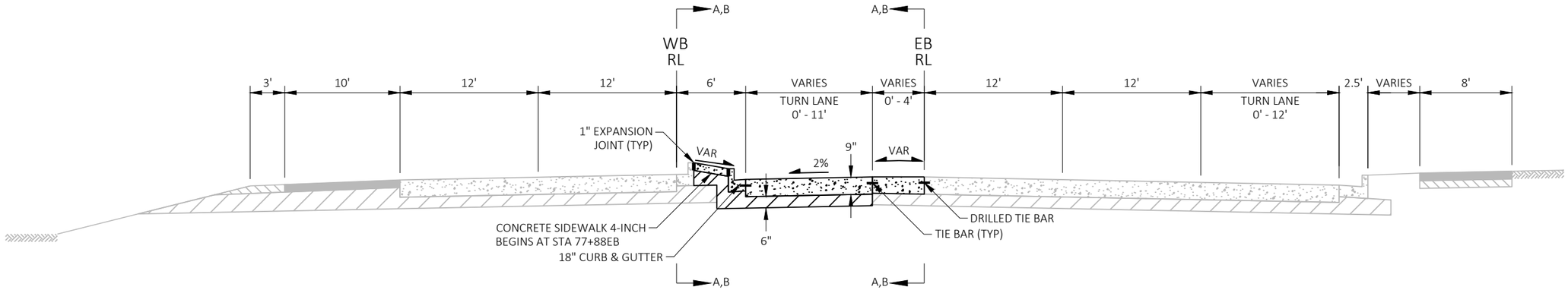
LEGEND

- EXISTING CONCRETE PAVEMENT
- EXISTING ASPHALTIC CONCRETE PAVEMENT
- EXISTING BASE AGGRAGATE DENSE 3/4-INCH
- EXISTING BASE AGGRAGATE DENSE 1 1/4-INCH
- TOPSOIL/EXISTING GROUND

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 11	E

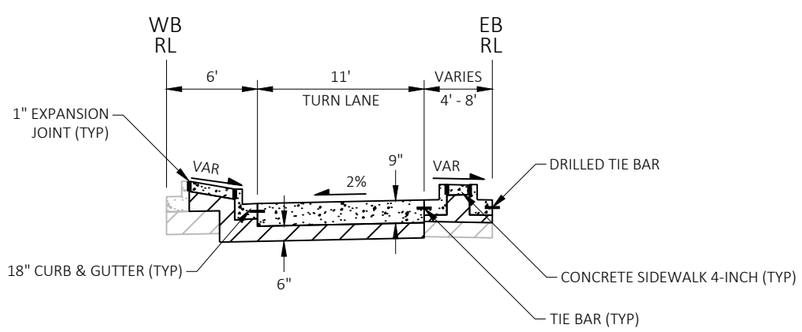
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 08
PLOT DATE : 6/17/2021 9:12 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



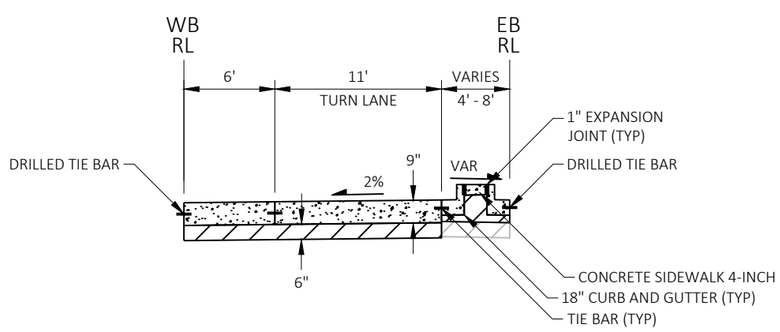
FINISHED TYPICAL SECTION STH 66

STA 78+12EB TO STA 80+84EB
STA 78+12WB TO STA 80+84WB



SECTION A-A

STA 79+73EB TO STA 80+68EB
STA 79+73WB TO STA 80+68WB



SECTION B-B

STA 80+68EB TO STA 80+84EB
STA 80+68WB TO STA 80+84WB

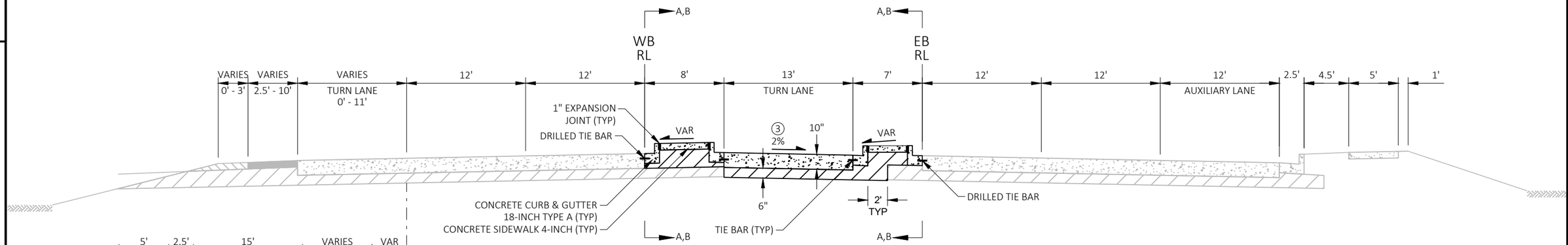
LEGEND

- CONCRETE PAVEMENT
- ASPHALTIC SURFACE
- BASE AGGRAGATE DENSE 3/4-INCH
- BASE AGGRAGATE DENSE 1 1/4-INCH
- EXISTING GROUND

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 12	E

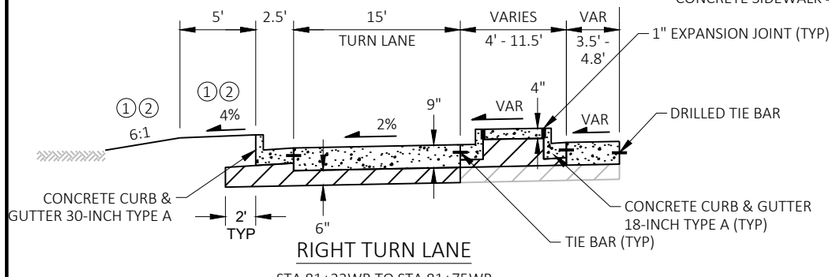
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 01F
PLOT DATE : 6/17/2021 9:12 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



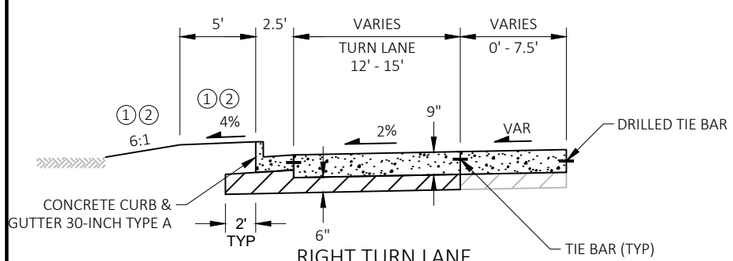
FINISHED TYPICAL SECTION STH 66

STA 81+36EB TO STA 85+75EB
STA 81+36WB TO STA 85+64WB



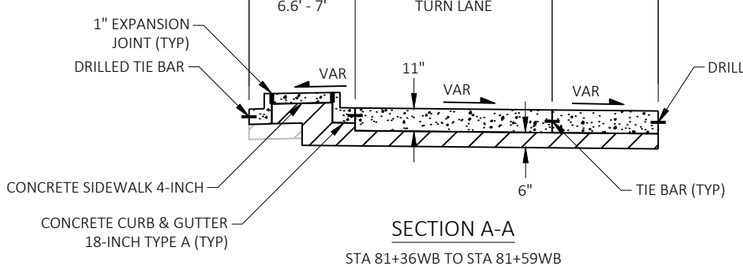
RIGHT TURN LANE

STA 81+32WB TO STA 81+75WB



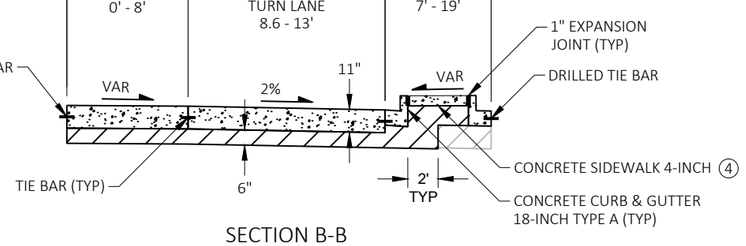
RIGHT TURN LANE

STA 81+75WB TO STA 82+47WB



SECTION A-A

STA 81+36WB TO STA 81+59WB
STA 81+36EB TO STA 81+59EB



SECTION B-B

STA 84+15WB TO STA 85+64WB
STA 84+15EB TO STA 85+75EB

LEGEND

- CONCRETE PAVEMENT
- ASPHALTIC SURFACE
- BASE AGGRAGATE DENSE 3/4-INCH
- BASE AGGRAGATE DENSE 1 1/4-INCH
- EXISTING GROUND

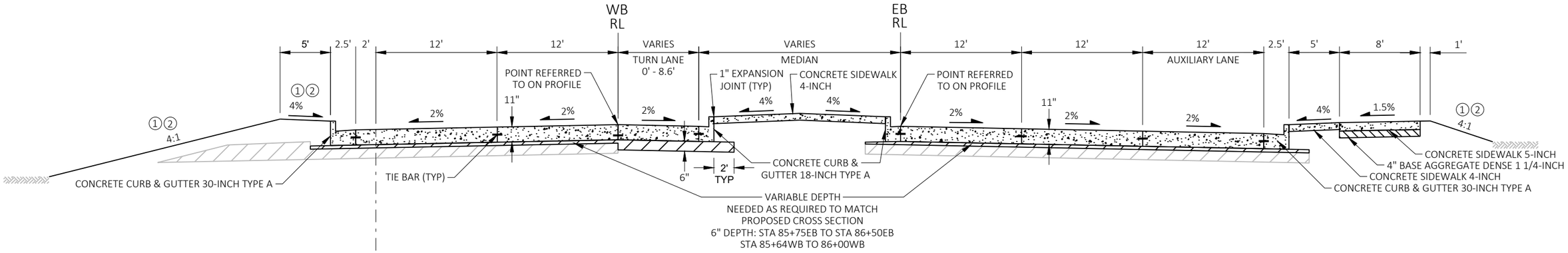
① TOPSOIL, SEED, FERTILIZER

② EROSION MAT URBAN CLASS I TYPE B

③ STA 81+58WB TO STA 84+15WB
VARIES 0.6% TO 2%

④ TOPSOIL, SEED, FERTILIZER, EROSION MAT URBAN CLASS I TYPE B
STA 85+00WB TO STA 85+64WB
STA 85+00EB TO STA 85+75EB

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 13	E



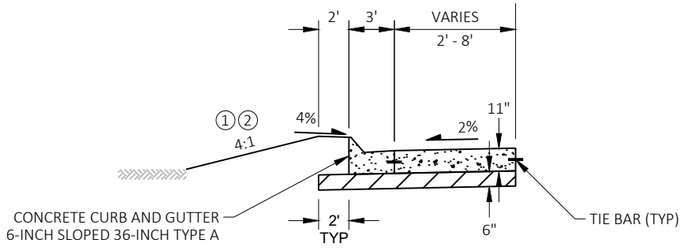
FINISHED TYPICAL SECTION STH 66

STA 85+75EB TO STA 87+50EB

STA 85+64WB TO STA 87+50WB

OUTSIDE SHOULDER

STA 85+64WB TO STA 85+89WB



OUTSIDE SHOULDER

STA 85+89WB TO STA 86+39WB

① TOPSOIL, SEED, FERTILIZER

② EROSION MAT CLASS I TYPE B

③ EROSION MAT URBAN CLASS I TYPE B

LEGEND

- CONCRETE PAVEMENT
- ASPHALTIC SURFACE
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- EXISTING GROUND

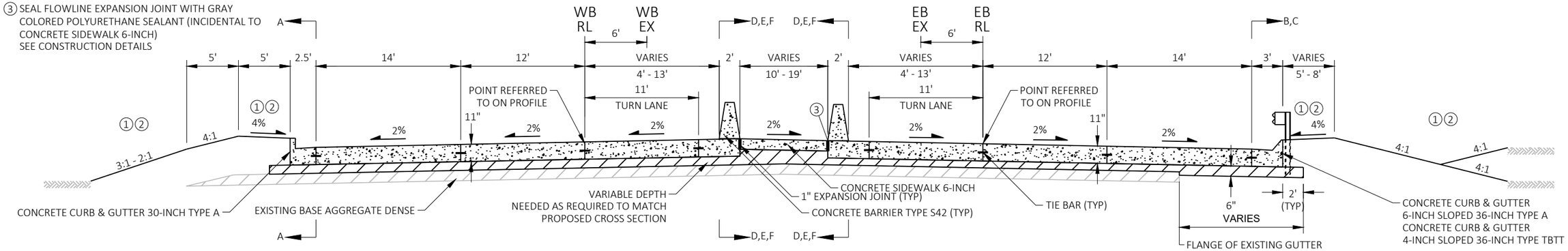
PROJECT NO: 1166-06-75	HWY: STH 66	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 14	E

2

① TOPSOIL, SEED, FERTILIZER

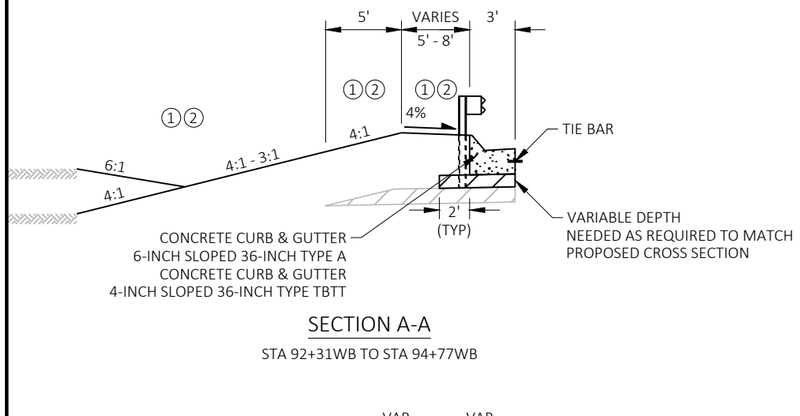
② EROSION MAT CLASS I TYPE B

③ SEAL FLOWLINE EXPANSION JOINT WITH GRAY COLORED POLYURETHANE SEALANT (INCIDENTAL TO CONCRETE SIDEWALK 6-INCH) SEE CONSTRUCTION DETAILS



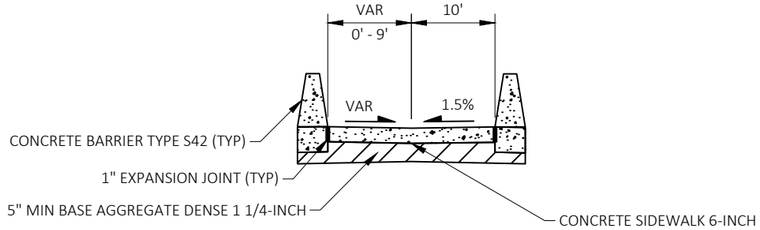
FINISHED TYPICAL SECTION USH 10

STA 87+50EB TO STA 90+11EB
STA 92+59EB TO STA 95+50EB
STA 87+50WB TO STA 89+96WB
STA 92+31WB TO 95+50WB



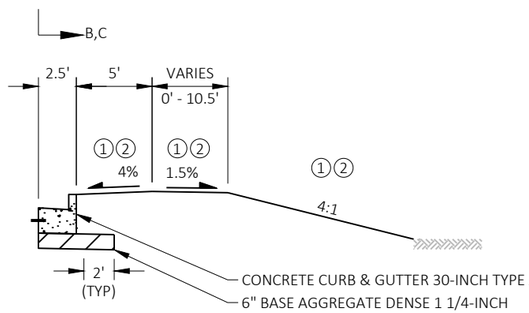
SECTION A-A

STA 92+31WB TO STA 94+77WB



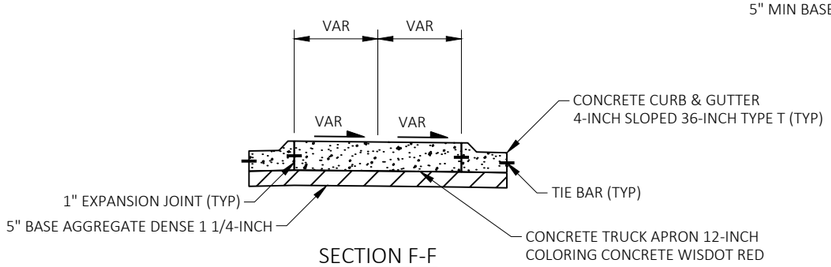
SECTION D-D

STA 92+88EB TO STA 94+71EB
STA 92+88WB TO STA 94+70WB



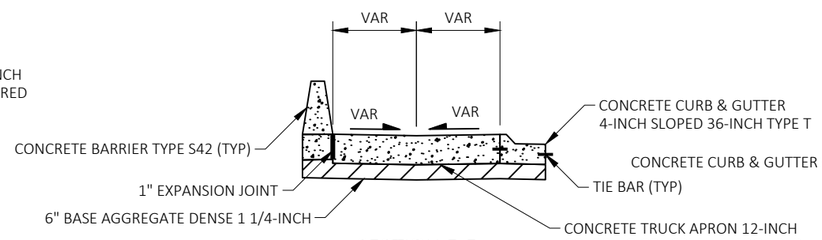
SECTION B-B

STA 92+59EB TO STA 94+61



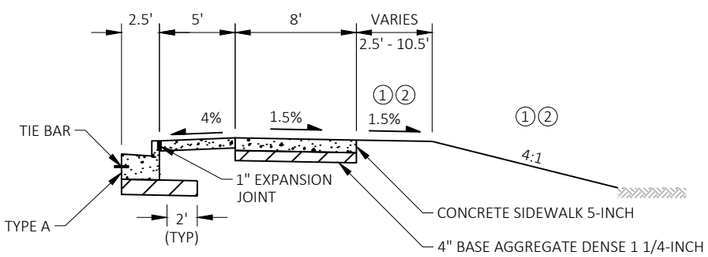
SECTION F-F

STA 94+90EB TO STA 95+21EB
STA 94+89WB TO STA 95+21WB



SECTION E-E

STA 94+71EB TO STA 94+90EB
STA 94+70WB TO STA 94+89WB



SECTION C-C

STA 94+61EB TO STA 95+50

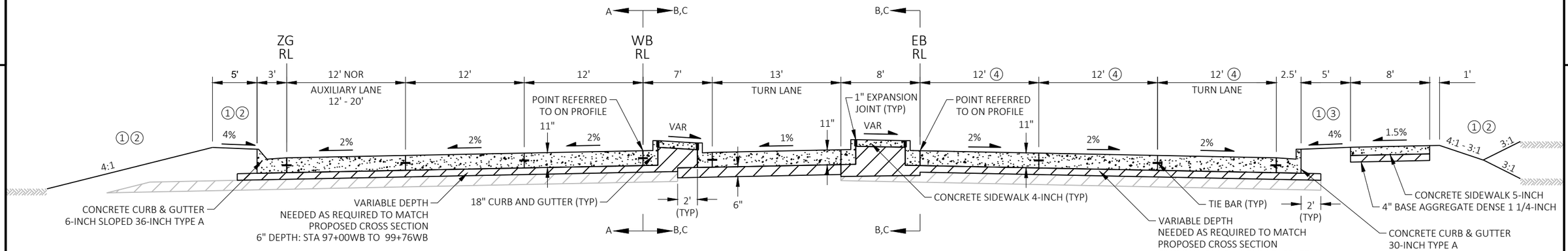
LEGEND

- CONCRETE PAVEMENT
- ASPHALTIC SURFACE
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- EXISTING GROUND

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 15	E

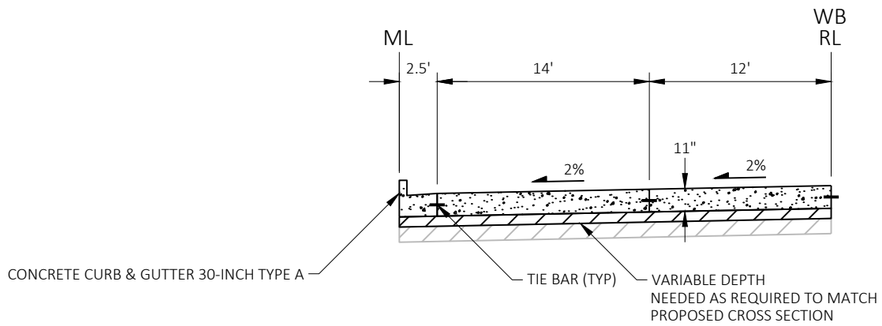
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 02F
PLOT DATE : 6/17/2021 9:12 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME : HAPPY BIRTHDAY DAD!
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



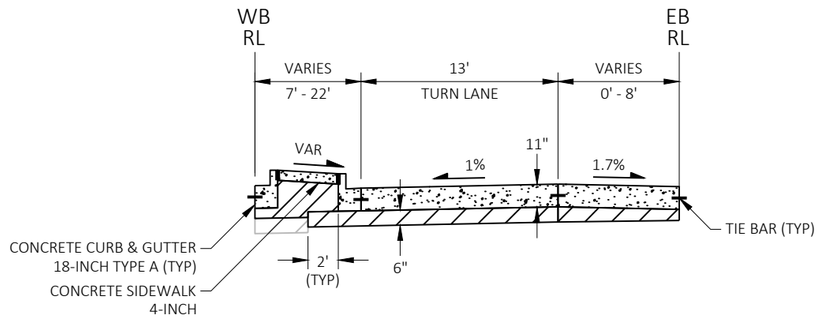
FINISHED TYPICAL SECTION USH 10

STA 95+50EB TO STA 99+76EB
STA 95+50WB TO 99+76WB



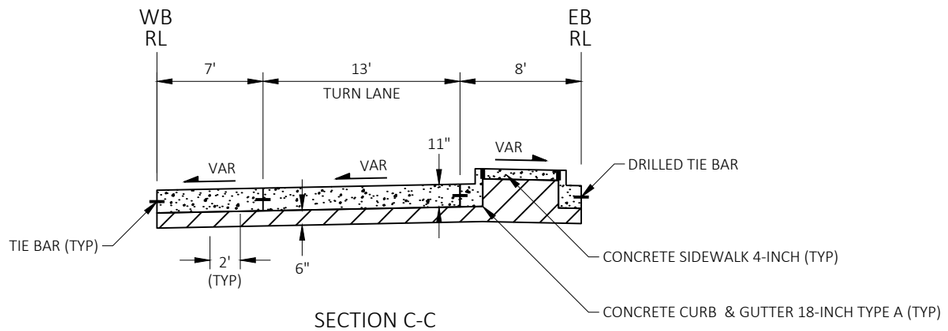
SECTION A-A

STA 95+50WB TO STA 96+73WB



SECTION B-B

STA 95+50EB TO STA 97+92EB
STA 95+50WB TO 97+92WB



SECTION C-C

STA 99+41EB TO STA 99+76EB
STA 99+41WB TO 99+76WB

① TOPSOIL, SEED, FERTILIZER

② EROSION MAT CLASS I TYPE B

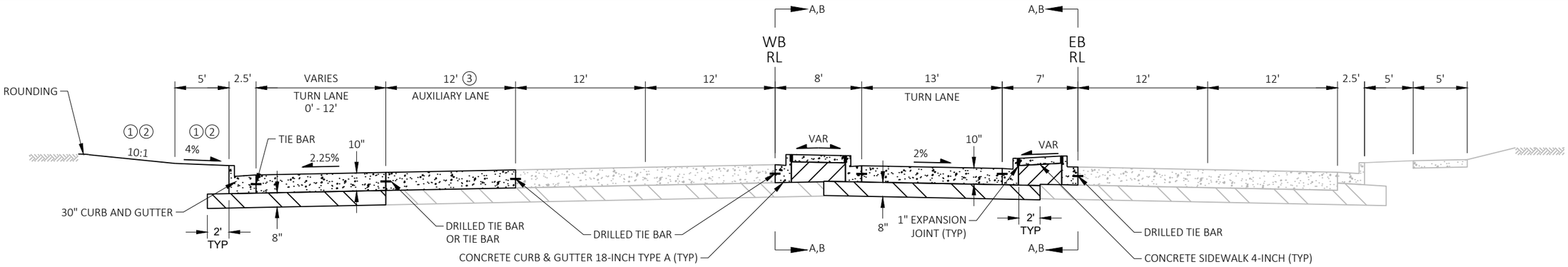
③ EROSION MAT URBAN CLASS I TYPE B

④ STA 99+00EB TO STA 99+76EB: EXISTING CONCRETE PAVEMENT 10-INCH TO REMAIN

LEGEND

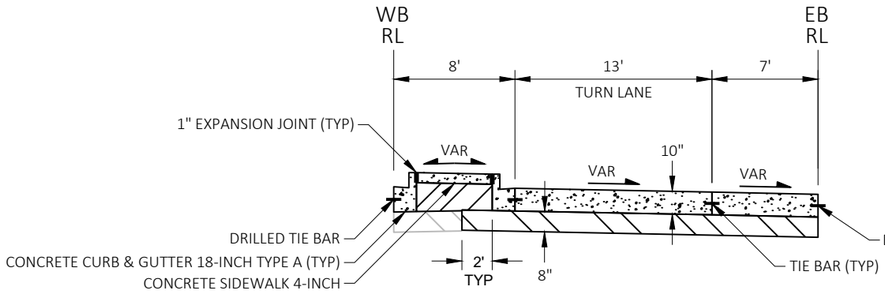
- CONCRETE PAVEMENT
- ASPHALTIC SURFACE
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- EXISTING GROUND

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 16	E



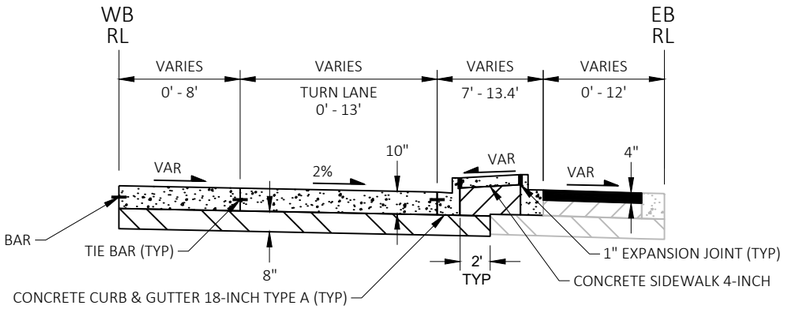
FINISHED TYPICAL SECTION USH 10

STA 100+14EB TO STA 103+61EB
STA 100+14WB TO STA 103+61WB



SECTION A-A

STA 100+14EB TO STA 100+68EB
STA 100+14WB TO STA 100+68WB



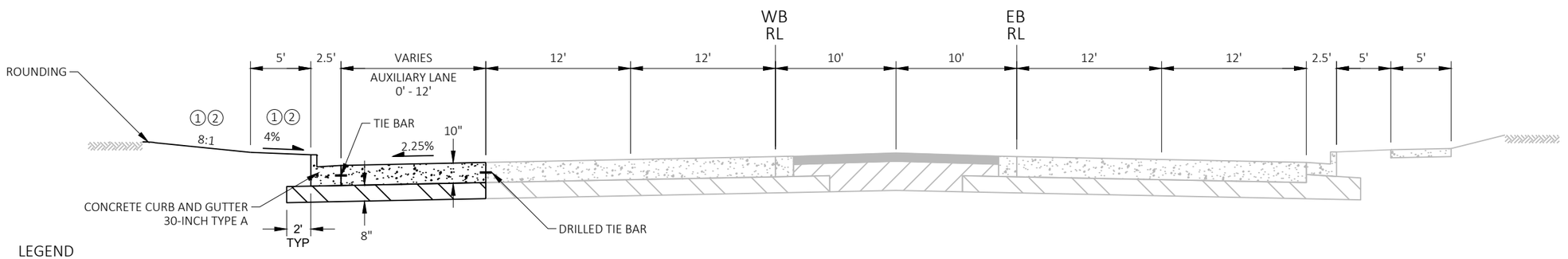
SECTION B-B

STA 101+91EB TO STA 103+61EB
STA 101+91WB TO STA 103+61WB

① TOPSOIL, SEED, FERTILIZER

② EROSION MAT URBAN CLASS I TYPE B

③ STA 100+98WB TO STA 103+61WB: EXISTING CONCRETE PAVEMENT 10-INCH TO REMAIN



LEGEND

- CONCRETE PAVEMENT
- ASPHALTIC SURFACE
- BASE AGGRAGATE DENSE 1 1/4-INCH
- BASE AGGRAGATE OPEN GRADED
- EXISTING GROUND

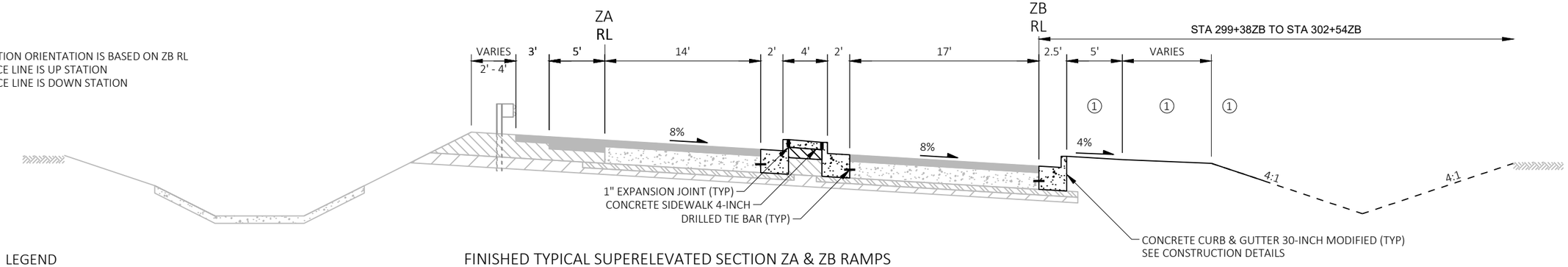
FINISHED TYPICAL SECTION USH 10

STA 106+65EB TO STA 112+15EB

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 17	E

2

NOTE: TYPICAL SECTION ORIENTATION IS BASED ON ZB RL
ZB REFERENCE LINE IS UP STATION
ZA REFERENCE LINE IS DOWN STATION

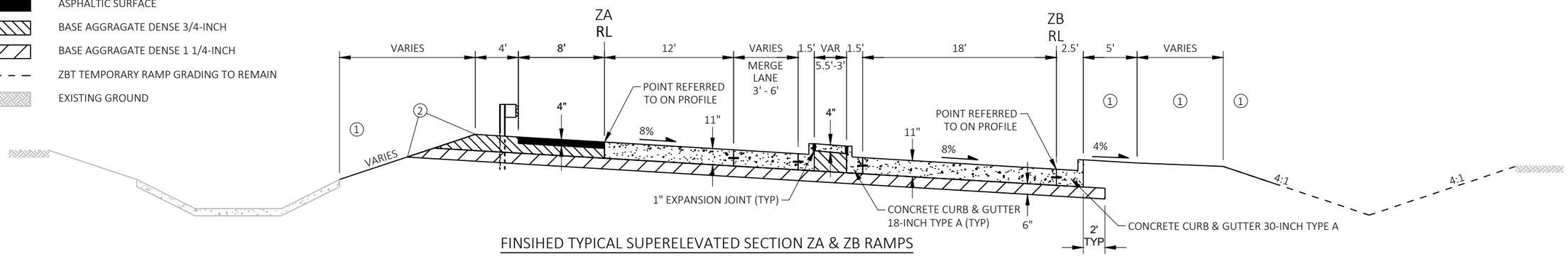


FINISHED TYPICAL SUPERELEVATED SECTION ZA & ZB RAMPS

STA 289+75ZA TO STA 294+75ZA
STA 298+30ZB TO STA 302+54ZB

LEGEND

- CONCRETE PAVEMENT
- ASPHALTIC SURFACE
- BASE AGGRAGATE DENSE 3/4-INCH
- BASE AGGRAGATE DENSE 1 1/4-INCH
- ZBT TEMPORARY RAMP GRADING TO REMAIN
- EXISTING GROUND

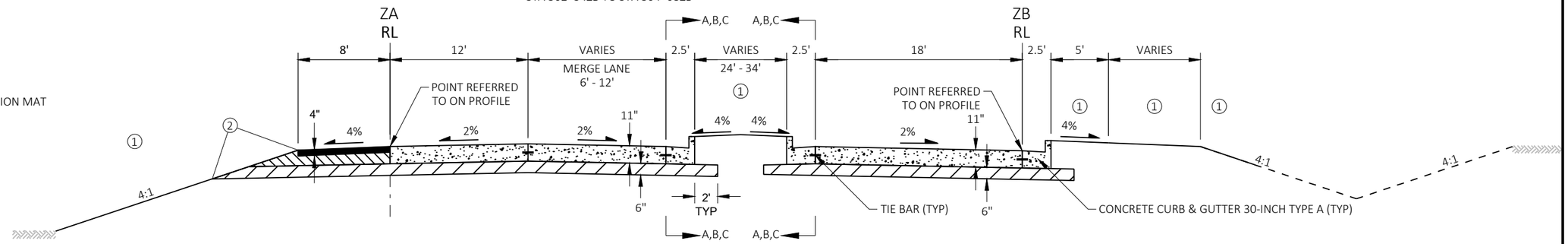


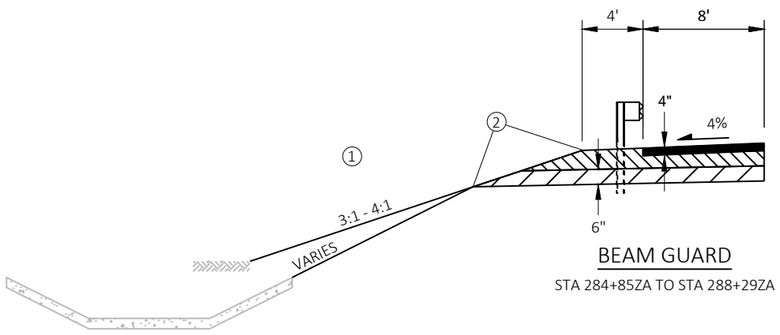
FINSIHED TYPICAL SUPERELEVATED SECTION ZA & ZB RAMPS

STA 288+29ZA TO STA 289+75ZA
STA 302+54ZB TO STA 304+08ZB

① TOPSOIL, SEED, FERTILIZER AND EROSION MAT CLASS I TYPE B

② SEED AND FERTILIZER



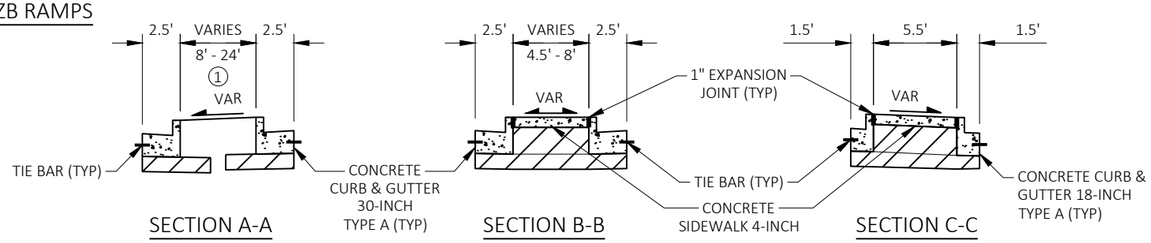


BEAM GUARD

STA 284+85ZA TO STA 288+29ZA

FINISHED TYPICAL SECTION ZA & ZB RAMPS

STA 284+08ZA TO STA 288+29ZA
STA 304+08ZB TO STA 309+33ZB



SECTION A-A

STA 284+32ZA TO STA 286+25ZA
STA 306+13ZB TO STA 308+00ZB

SECTION B-B

STA 286+25ZA TO STA 287+13ZA
STA 305+35ZB TO STA 306+13ZB

SECTION C-C

STA 287+13ZA TO STA 288+29ZA
STA 304+08ZB TO STA 305+35ZB

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 18	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 05F
PLOT DATE : 6/17/2021 9:13 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

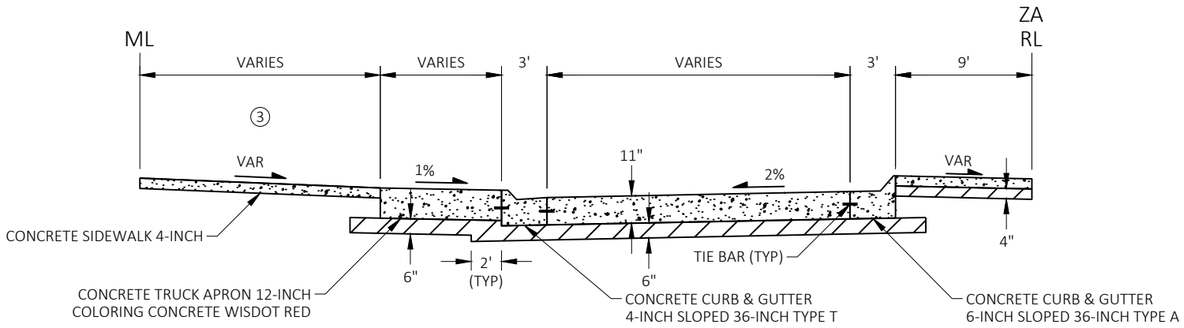
WISDOT/CADDS SHEET 42

2

① TOPSOIL, SEED, FERTILIZER AND EROSION MAT CLASS I TYPE B

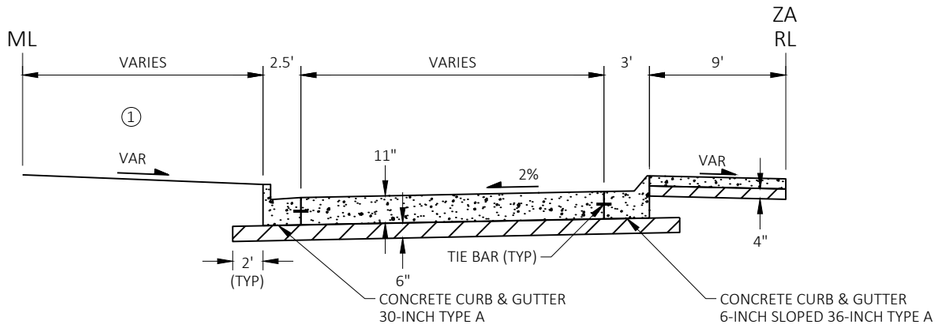
② ML: STA 282+41ZG TO STA 283+43.91
ZA: STA 283+43.91ZG TO STA 284+61ZG

③ TOPSOIL, SEED, FERTILIZER AND EROSION MAT CLASS I TYPE B
STA 283+36ZA TO STA 283+94ZA



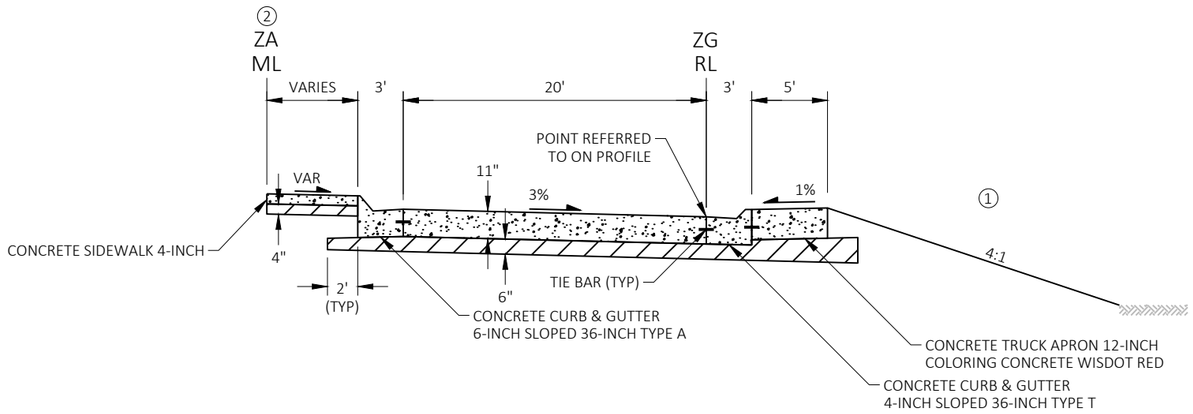
FINISHED TYPICAL SECTION ZA RAMP

STA 283+03ZA TO STA 283+94ZA



FINISHED TYPICAL SECTION ZA RAMP

STA 283+94ZA TO STA 284+08ZA



FINISHED TYPICAL SECTION ZG RAMP

STA 282+41ZG TO STA 284+61ZG

LEGEND

- CONCRETE PAVEMENT
- ASPHALTIC SURFACE
- BASE AGGRAGATE DENSE 3/4-INCH
- BASE AGGRAGATE DENSE 1 1/4-INCH
- EXISTING GROUND

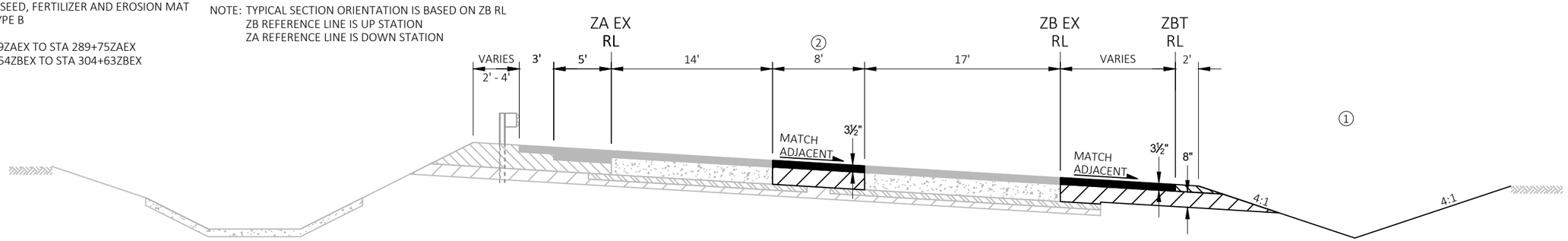
PROJECT NO: 6290-09-70	HWY: IH 39	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 19	E

2

① TOPSOIL, SEED, FERTILIZER AND EROSION MAT CLASS I TYPE B

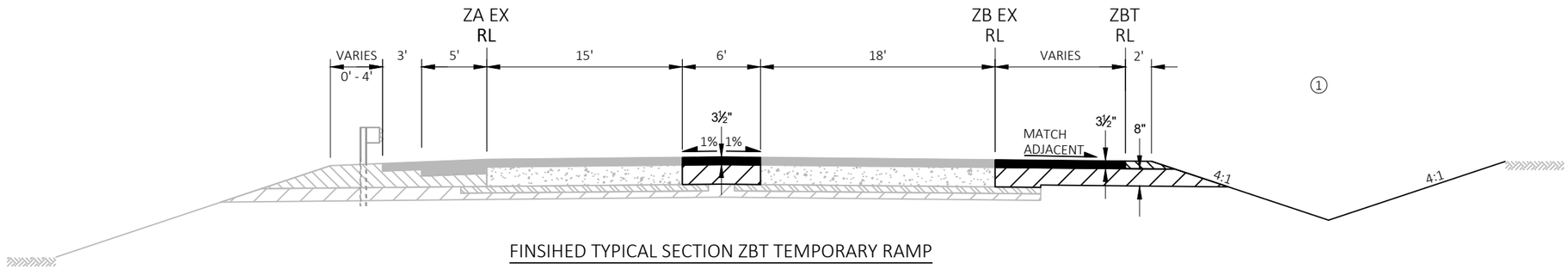
② 6': 288+29ZAEX TO STA 289+75ZAEX
STA 302+54ZBEX TO STA 304+63ZBEX

NOTE: TYPICAL SECTION ORIENTATION IS BASED ON ZB RL
ZB REFERENCE LINE IS UP STATION
ZA REFERENCE LINE IS DOWN STATION



FINISHED TYPICAL SUPERELEVATED SECTION ZBT TEMPORARY RAMP

STA 288+29ZAEX TO STA 293+65ZAEX
STA 299+37ZBEX TO STA 304+63ZBEX

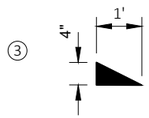


FINSIHED TYPICAL SECTION ZBT TEMPORARY RAMP

STA 284+59ZA TO STA 288+29ZA
STA 304+08ZB TO STA 307+38ZB

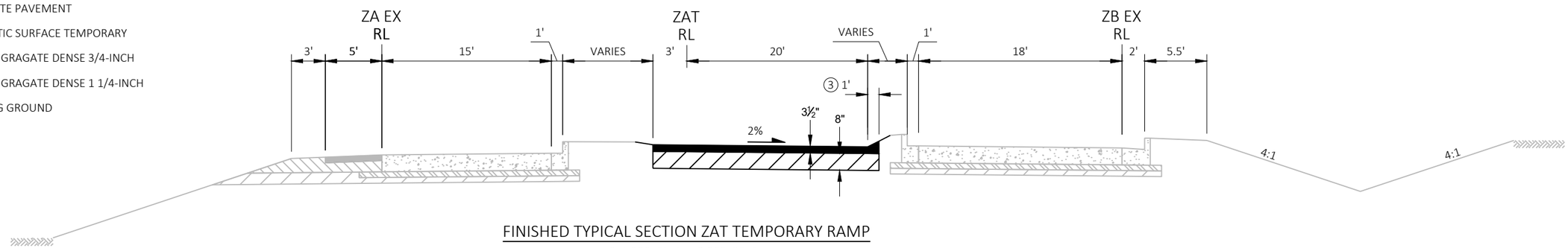
LEGEND

- CONCRETE PAVEMENT
- ASPHALTIC SURFACE TEMPORARY
- BASE AGGRAGATE DENSE 3/4-INCH
- BASE AGGRAGATE DENSE 1 1/4-INCH
- EXISTING GROUND



ASPHALTIC CURB

INCIDENTAL TO ASPHALTIC SURFACE TEMPORARY



FINISHED TYPICAL SECTION ZAT TEMPORARY RAMP

STA 286+61ZAT TO 283+30ZAT

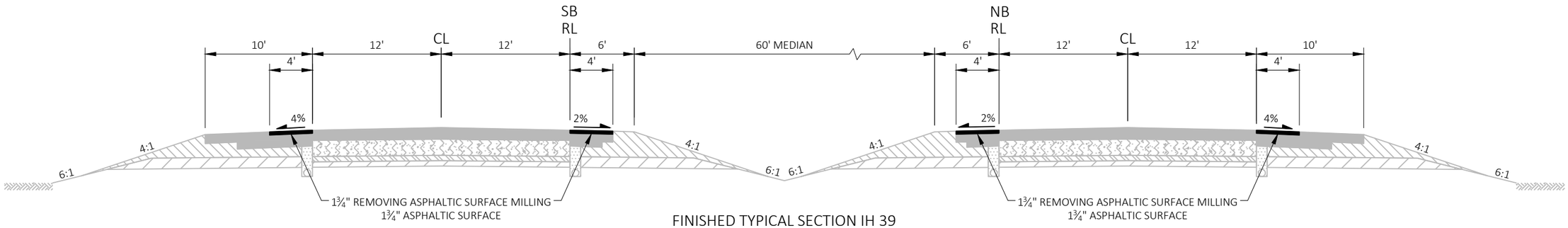
PROJECT NO: 6290-09-70	HWY: IH 39	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 20	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 05.3F
PLOT DATE : 6/17/2021 9:13 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

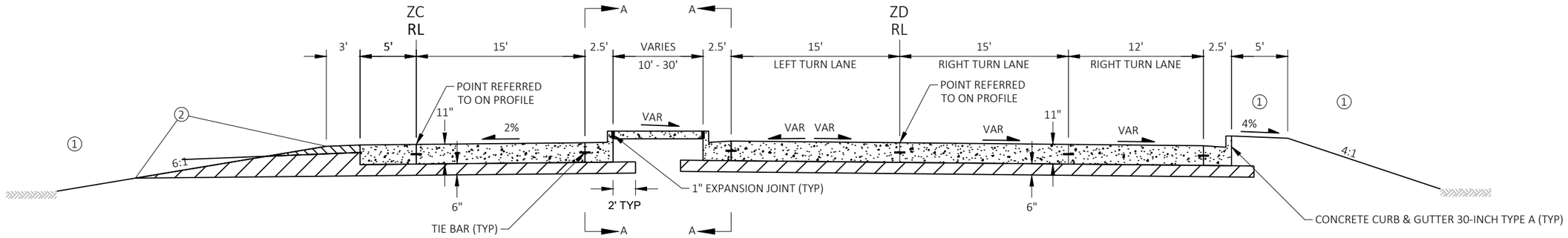
① TOPSOIL, SEED, FERTILIZER AND EROSION MAT CLASS I TYPE B

② SEED AND FERTILIZER



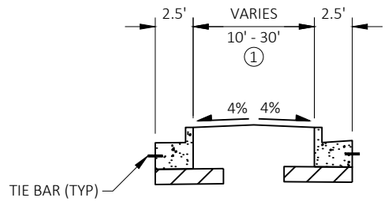
FINISHED TYPICAL SECTION IH 39

STA 1281+21NB TO STA 1292+02NB
STA 1281+29SB TO STA 1300+21SB



FINISHED TYPICAL SECTION ZC & ZD RAMPS

STA 293+58ZC TO STA 294+85ZC
STA 270+47ZD TO STA 271+68ZD



SECTION A-A

STA 294+33ZC TO STA 294+75ZC
STA 270+58ZD TO STA 271+00ZD

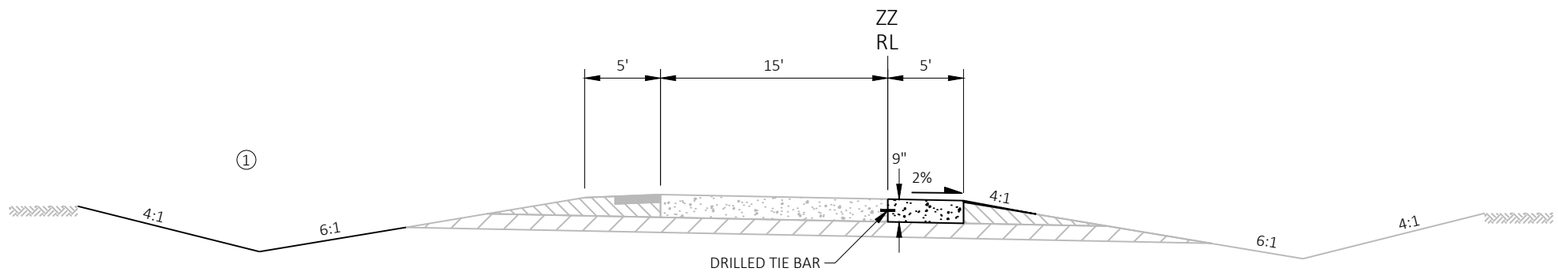
LEGEND

- CONCRETE PAVEMENT
- ASPHALTIC SURFACE
- BASE AGGRAGATE DENSE 3/4-INCH
- BASE AGGRAGATE DENSE 1 1/4-INCH
- EXISTING GROUND

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 21	E

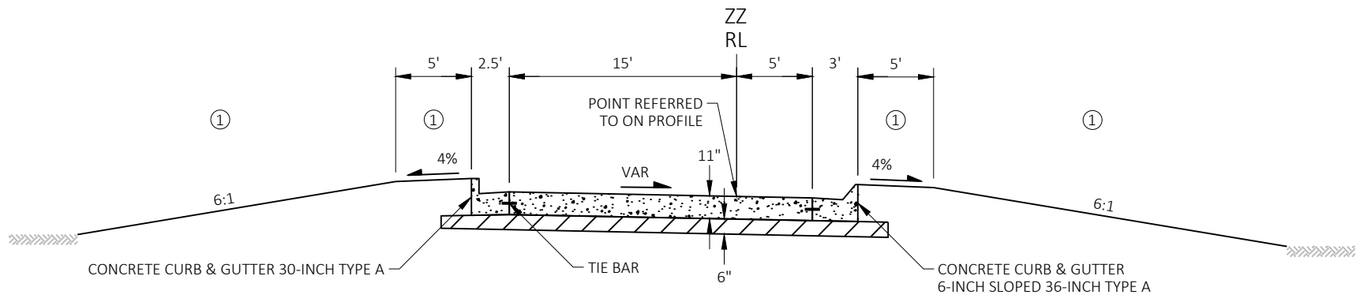
2

① TOPSOIL, SEED, FERTILIZER AND EROSION MAT CLASS I TYPE B



FINSIHED TYPICAL SECTION ZZ RAMP

STA 285+30ZZ TO STA 286+30ZZ



FINISHED TYPICAL SECTION ZZ RAMP

STA 286+30ZZ TO STA 286+90ZZ

LEGEND

- CONCRETE PAVEMENT
- ASPHALTIC SURFACE
- BASE AGGRAGATE DENSE 3/4-INCH
- BASE AGGRAGATE DENSE 1 1/4-INCH
- EXISTING GROUND

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 22	E

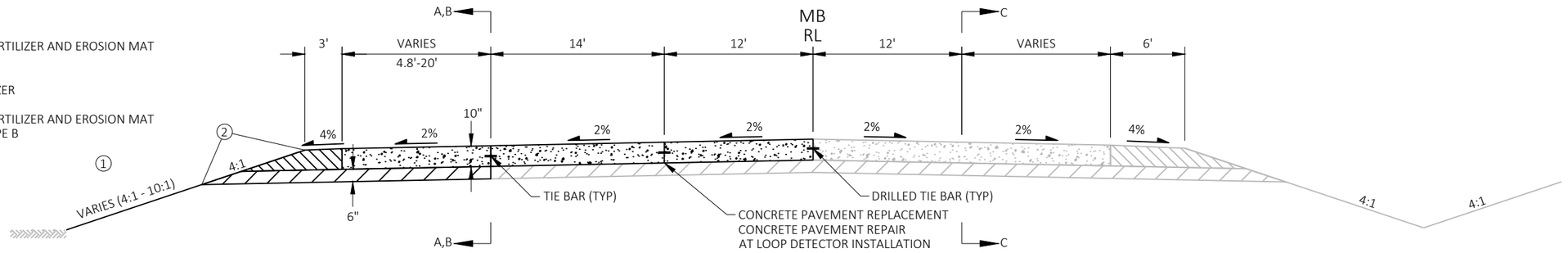
2

2

① TOPSOIL, SEED, FERTILIZER AND EROSION MAT CLASS I TYPE B

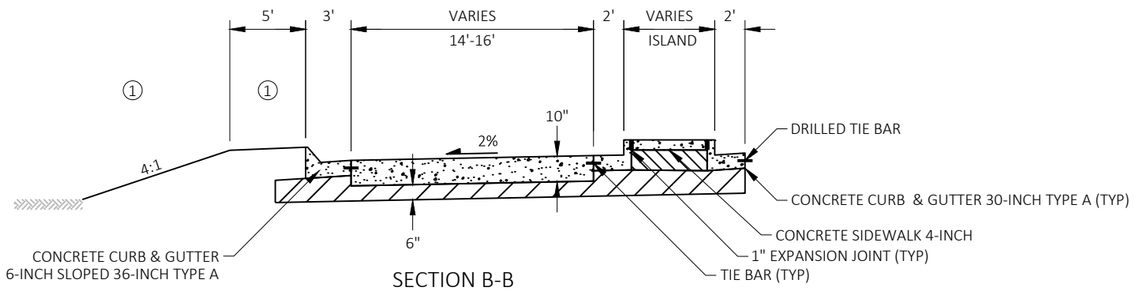
② SEED AND FERTILIZER

③ TOPSOIL, SEED, FERTILIZER AND EROSION MAT URBAN CLASS I TYPE B



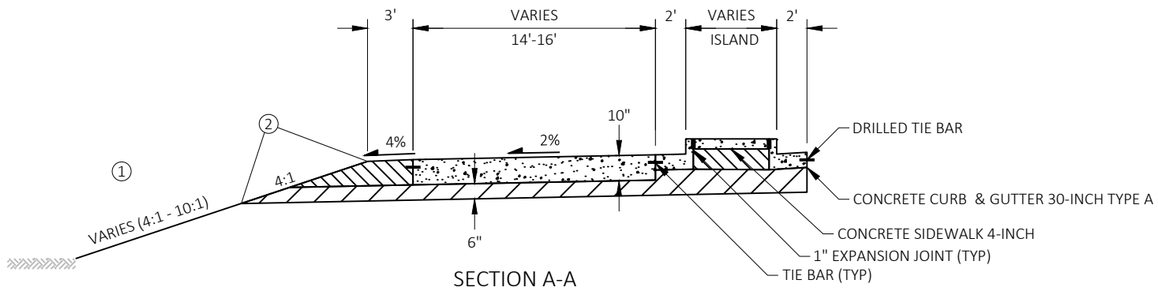
FINISHED TYPICAL SECTION MAPLE BLUFF ROAD

STA 22+90MB TO STA 24+75MB



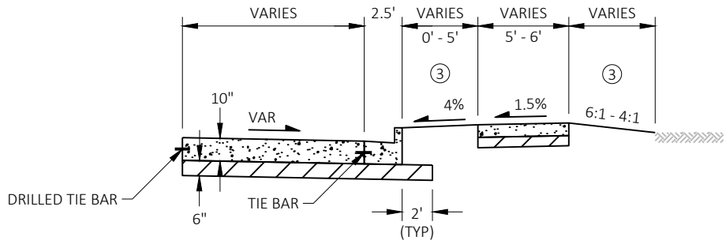
SECTION B-B

STA 22+90MB TO STA 23+25MB



SECTION A-A

STA 23+25MB TO STA 23+83MB

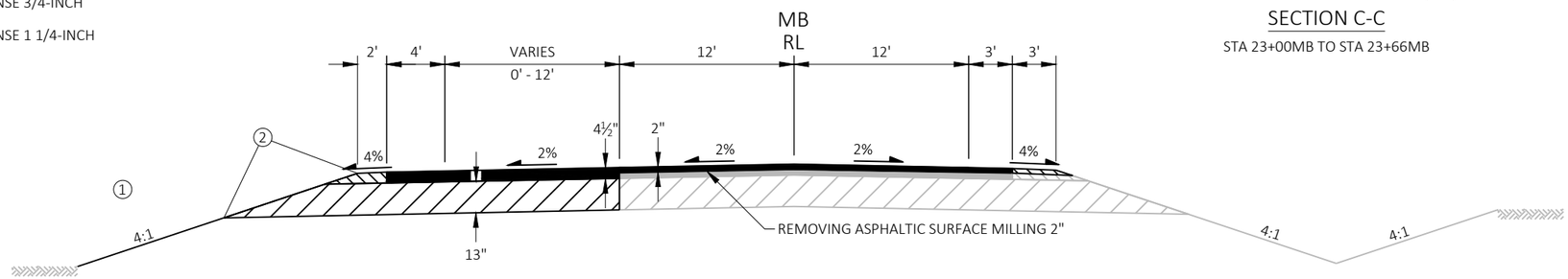


SECTION C-C

STA 23+00MB TO STA 23+66MB

LEGEND

- CONCRETE PAVEMENT
- ASPHALTIC SURFACE
- BASE AGGRAGATE DENSE 3/4-INCH
- BASE AGGRAGATE DENSE 1 1/4-INCH
- EXISTING GROUND



FINISHED TYPICAL SECTION MAPLE BLUFF ROAD

STA 24+75MB TO STA 27+04MB

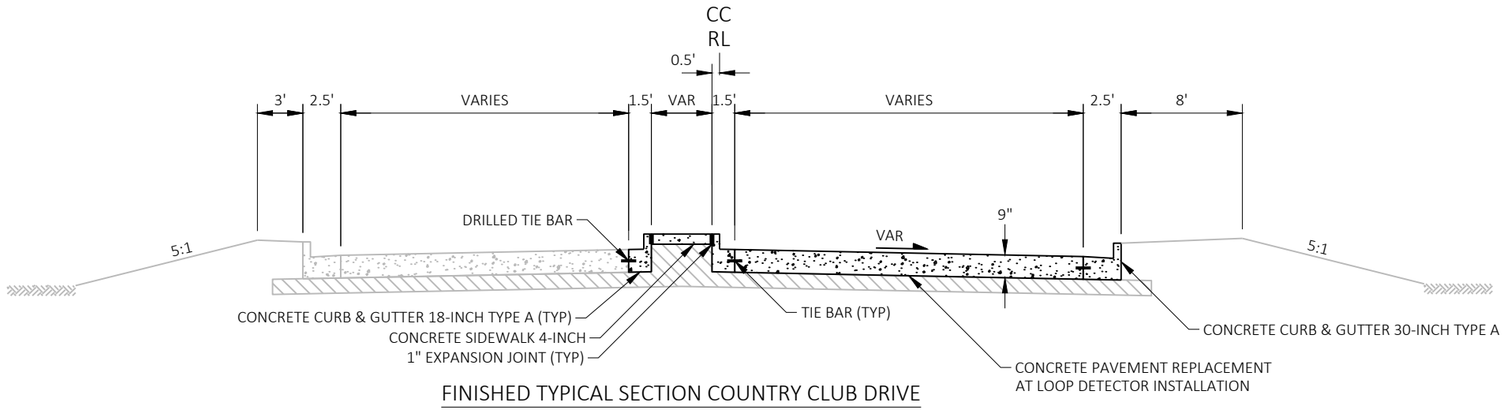
PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 23	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 06F

PLOT DATE : 6/17/2021 9:13 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:10 FT

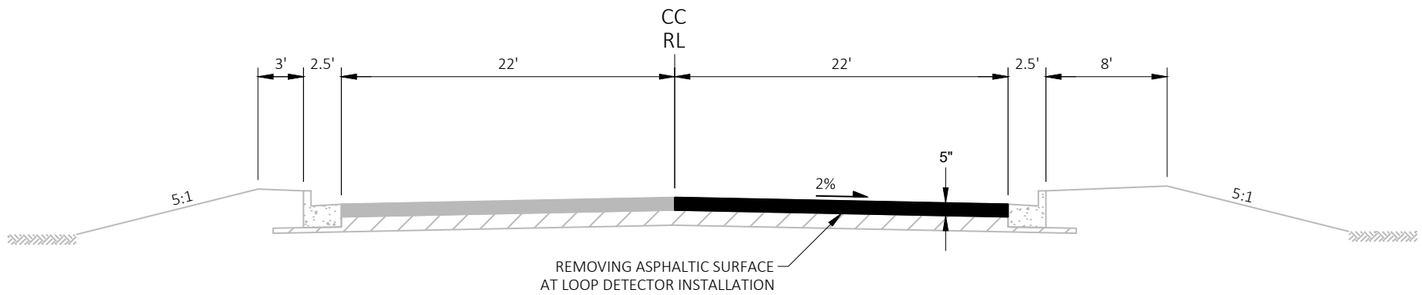
WISDOT/CADDS SHEET 42

2



FINISHED TYPICAL SECTION COUNTRY CLUB DRIVE

STA 62+65CC TO STA 63+32CC



FINISHED TYPICAL SECTION COUNTRY CLUB DRIVE

STA 61+66CC TO STA 61+78CC

LEGEND

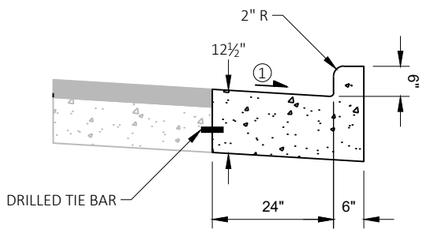
- CONCRETE PAVEMENT
- ASPHALTIC SURFACE
- BASE AGGRAGATE DENSE 3/4-INCH
- BASE AGGRAGATE DENSE 1 1/4-INCH
- EXISTING GROUND

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TYPICAL SECTION	SHEET 24	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 08F
PLOT DATE : 6/17/2021 9:13 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

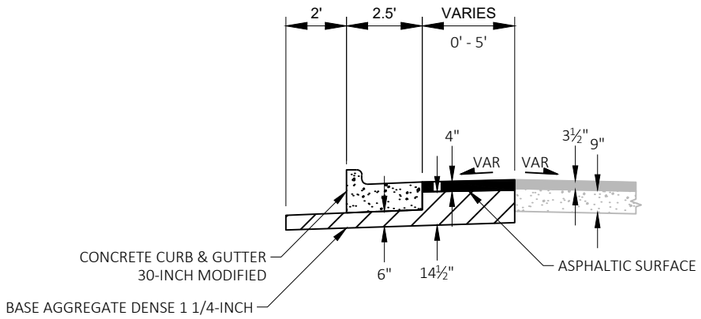
2

① MATCH ADJACENT PAVEMENT SLOPE



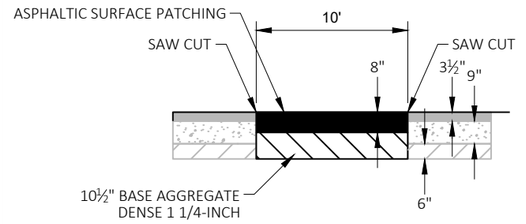
CONCRETE CURB & GUTTER 30-INCH MODIFIED

TO RESTORE NB RAMP CURB & GUTTER AFTER TRAFFIC STAGING



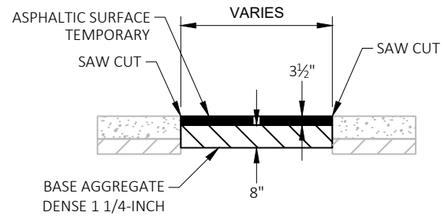
CONCRETE CURB & GUTTER TAPER

STA 294+32ZA TO STA 294+88ZA
STA 298+25ZB TO STA 298+77ZB



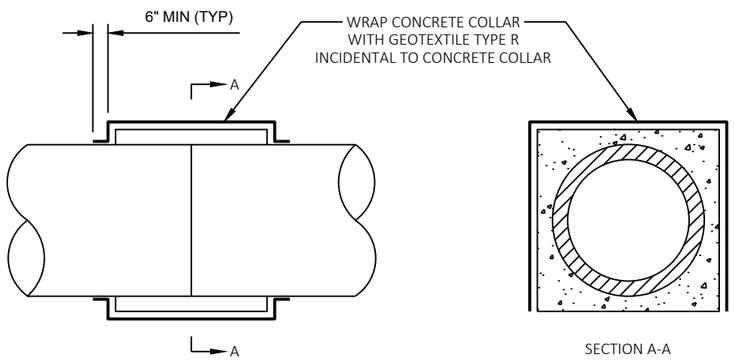
ASPHALTIC SURFACE PATCHING

AT STORM SEWER INSTALLATION
SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS
ASPHALTIC SURFACE PATCHING SHALL MEET REQUIREMENTS
FOR HMA PAVEMENT TYPE MT



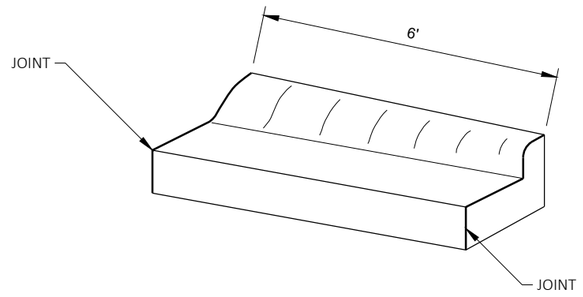
ASPHALTIC SURFACE TEMPORARY

SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS



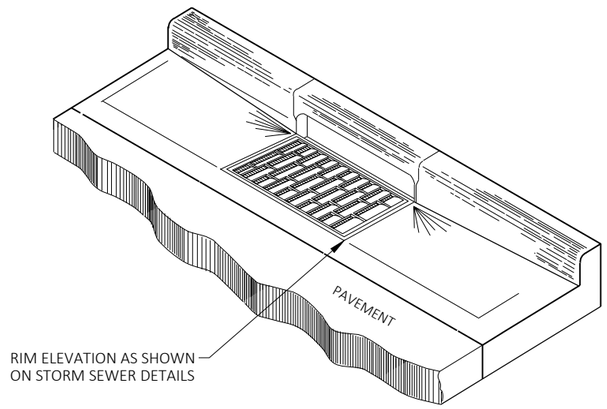
CONCRETE COLLAR

SEE SDD JOINT TIES FOR CONCRETE PIPE AND
CONCRETE PIPE COLLARS FOR DETAILS NOT SHOWN



CURB AND GUTTER TRANSITION

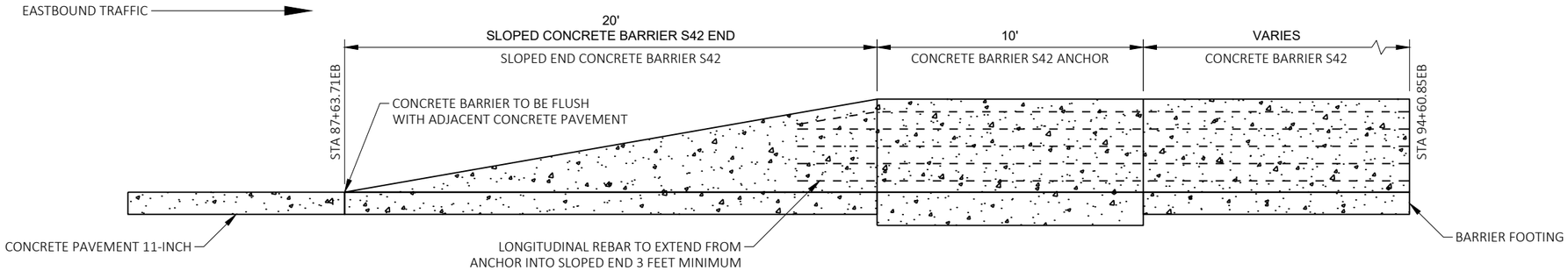
36" TYPE A CURB & GUTTER TO 30" TYPE A CURB & GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

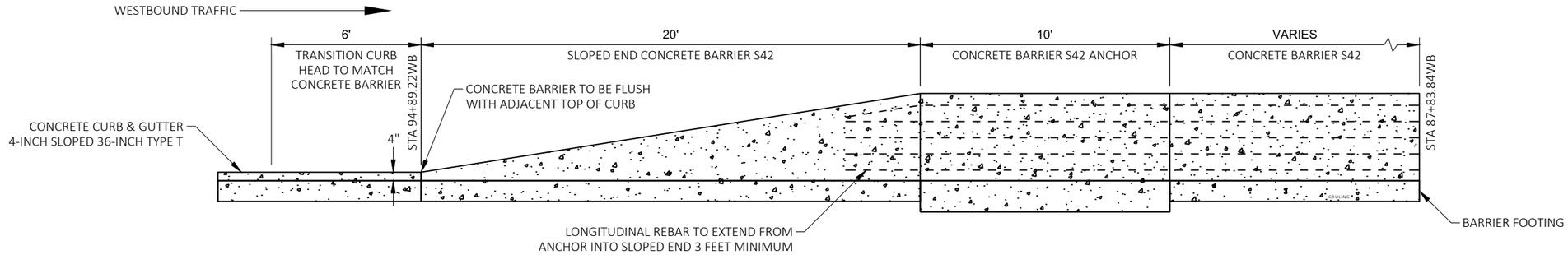
SEE SDD CONCRETE GUTTER, TIES AND CURB AND GUTTER APPLICATIONS FOR DETAILS NOT SHOWN

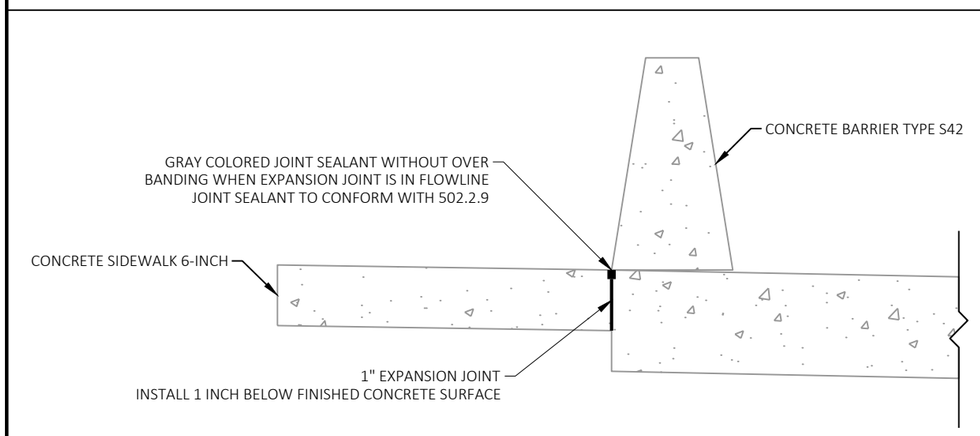
DETAILS NOT SHOWN SHALL CONFORM TO THE FOLLOWING SDDS:
CONCRETE BARRIER SINGLE SLOPE (CBSS)



CONCRETE BARRIER TYPE S42

PROFILE VIEW
EASTBOUND SLOPED END

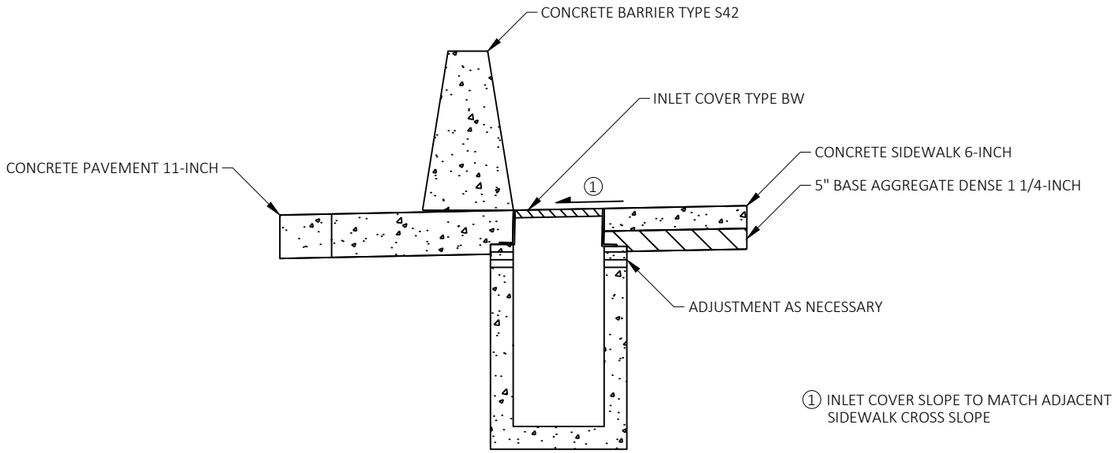




CONCRETE BARRIER TYPE S42

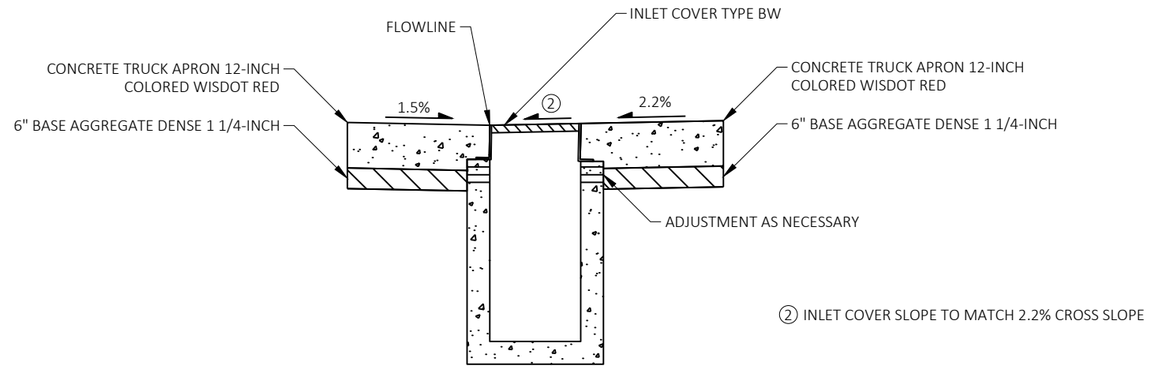
PROFILE VIEW
WESTBOUND SLOPED END

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CONSTRUCTION DETAILS	SHEET 26	E



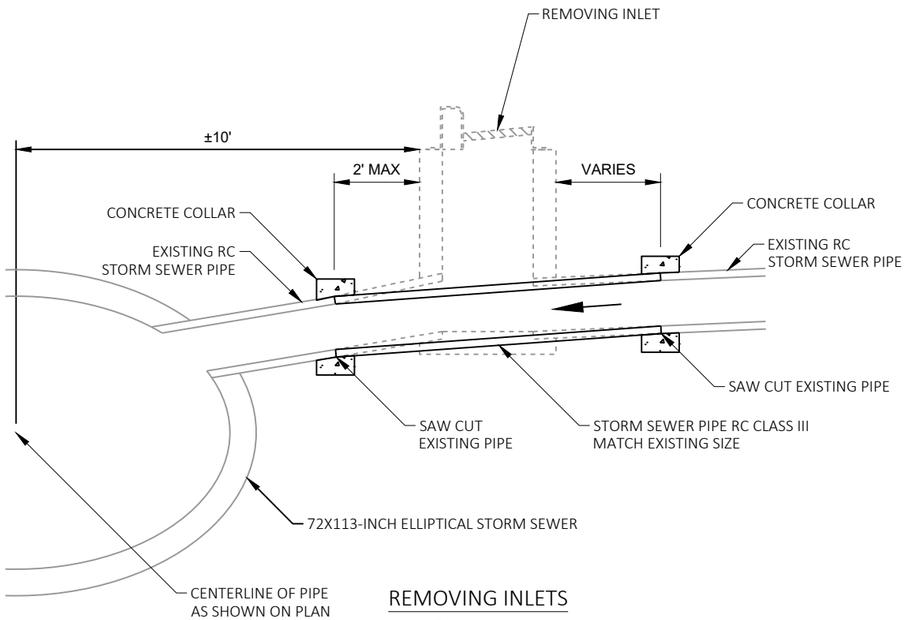
INLET COVERS TYPE BW

STA 87+71EB
STA 89+84EB
STA 92+55EB



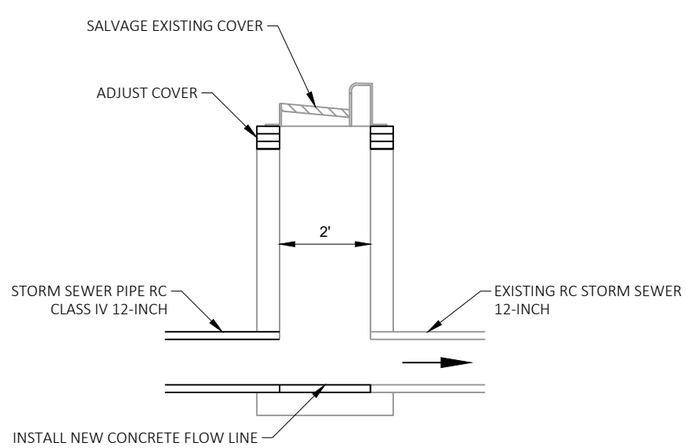
INLET COVERS TYPE BW

STA 94+73EB



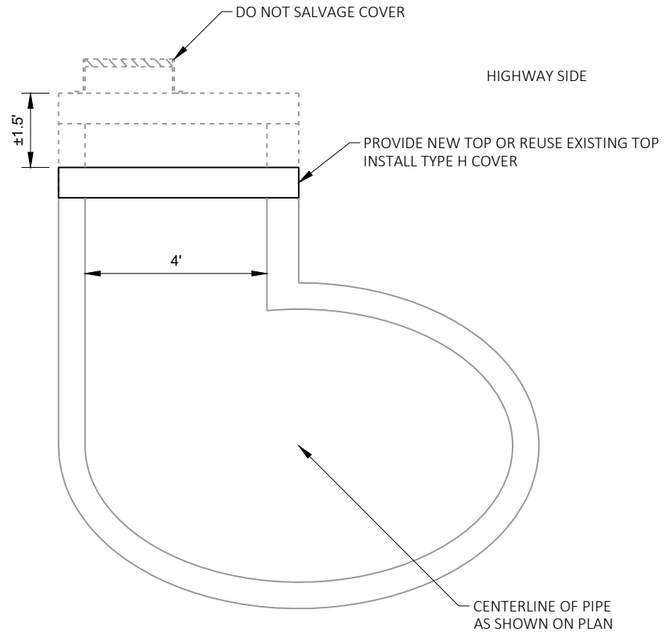
REMOVING INLETS

STA 101+84WB
STA 107+64EB
STA 108+92EB
STA 110+05EB
STA 111+56EB



RECONSTRUCT INLET

STA 82+28EB



RECONSTRUCT MANHOLE

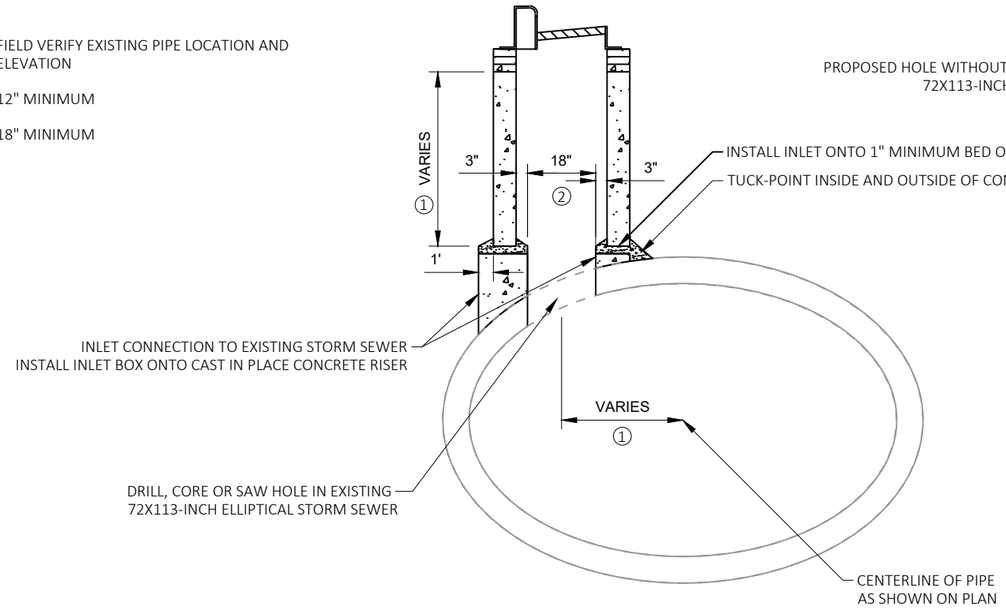
STA 108+93EB

2

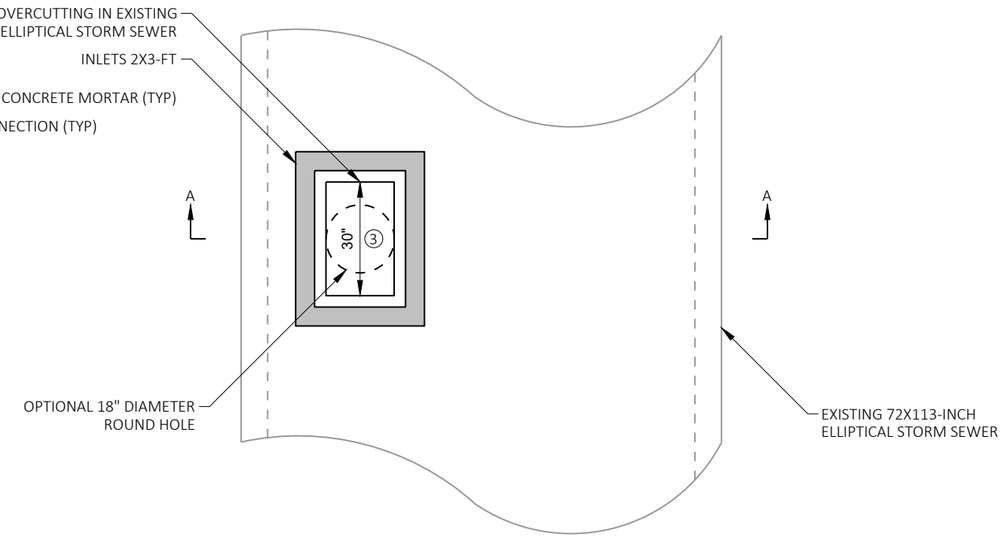
① FIELD VERIFY EXISTING PIPE LOCATION AND ELEVATION

② 12" MINIMUM

③ 18" MINIMUM



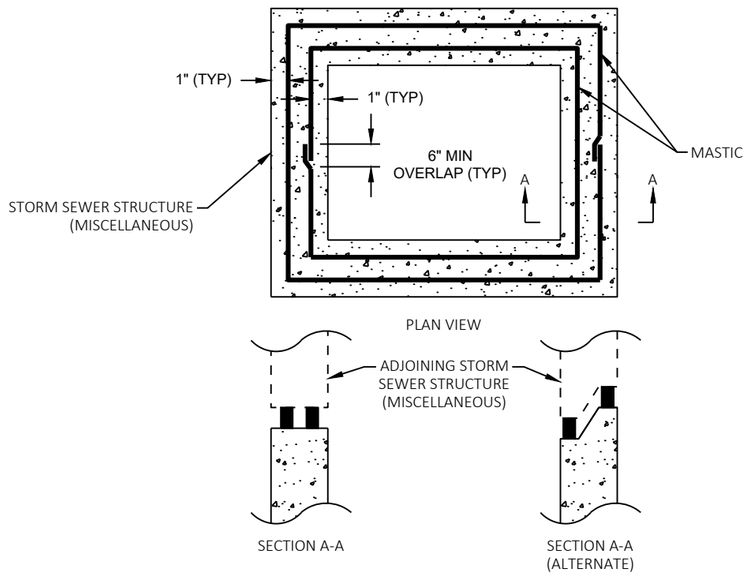
A - A



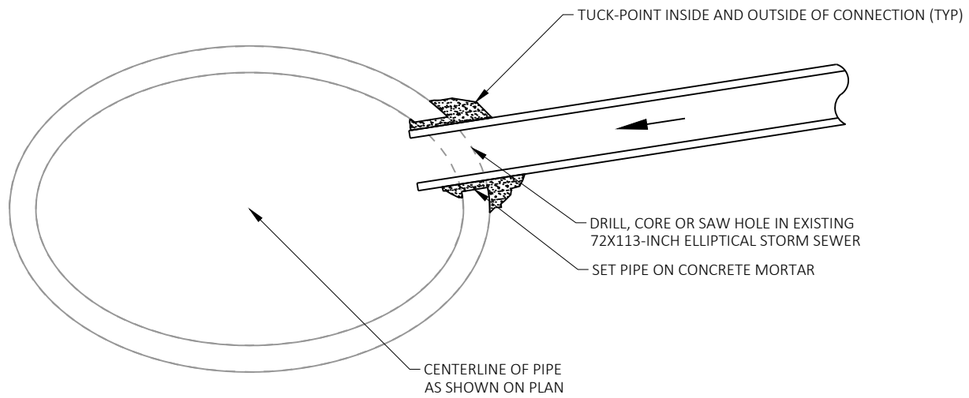
PLAN VIEW

INLET CONNECTION TO EXISTING STORM SEWER

SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS



MASTIC CONNECTION DETAIL

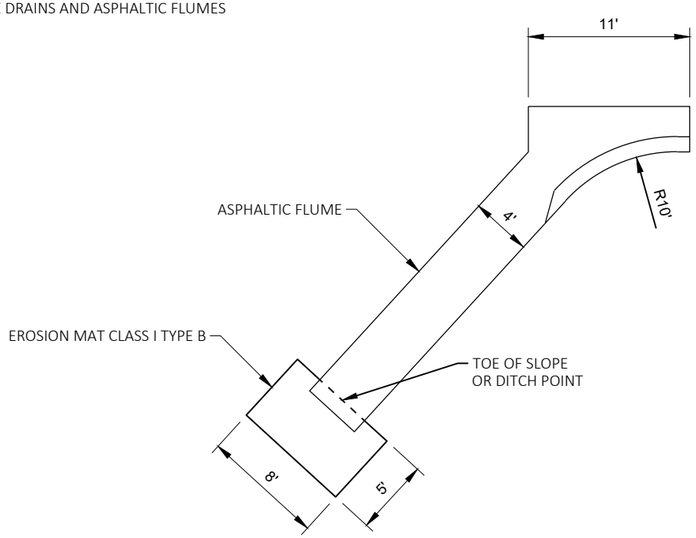


PIPE CONNECTION TO EXISTING STORM SEWER

SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS

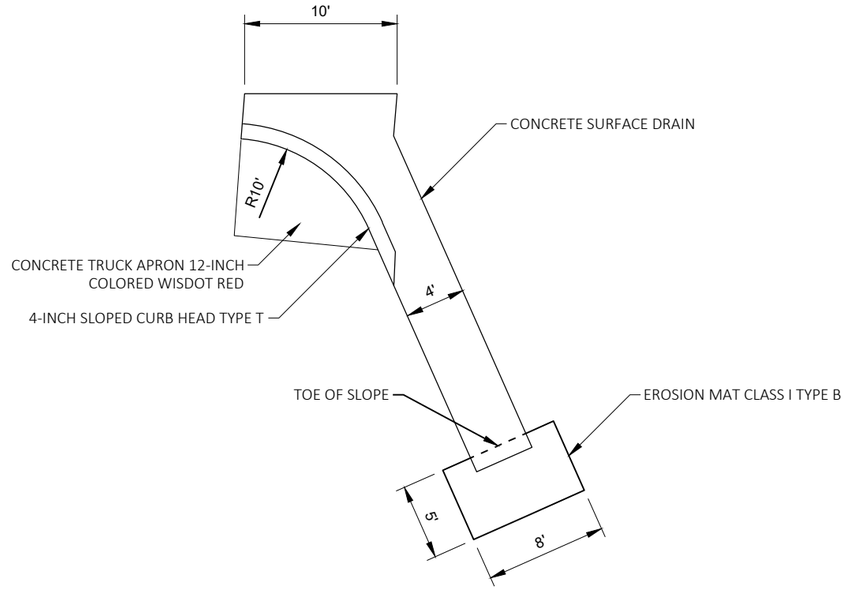
PROJECT NO: 1166-06-75, 6290-09-70/71	HWY: USH 10	COUNTY: PORTAGE	CONSTRUCTION DETAILS	SHEET 28	E

DETAILS NOT SHOWN SHALL CONFORM TO THE FOLLOWING SDDS:
CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES



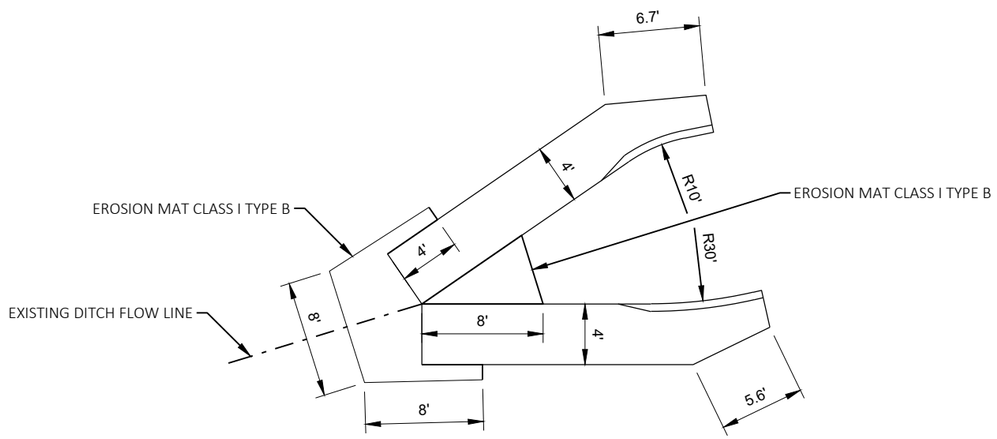
ASPHALTIC FLUME

SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS



CONCRETE SURFACE DRAIN

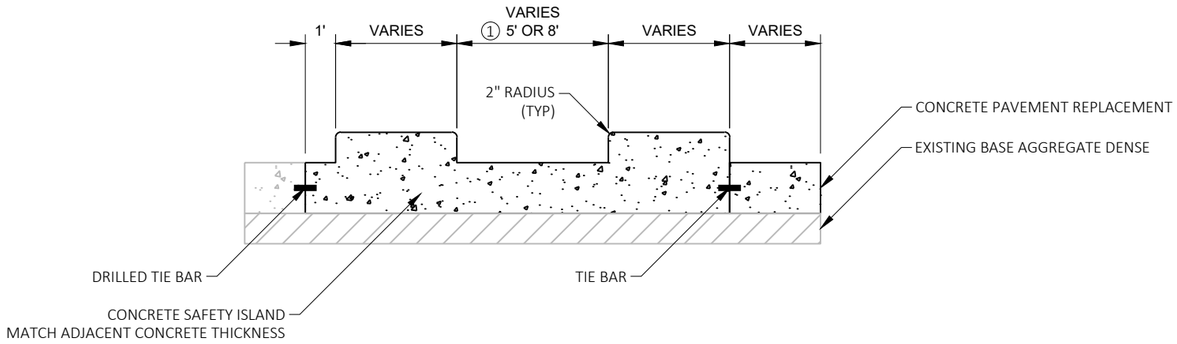
STA 284+61ZG



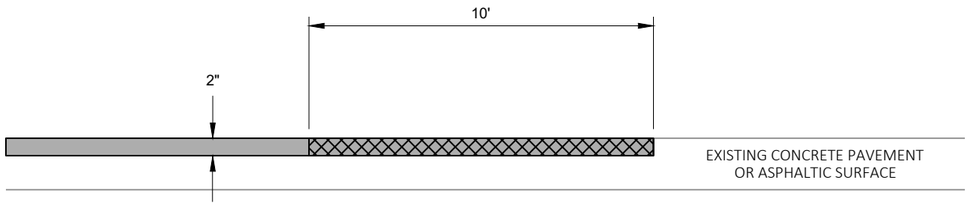
ASPHALTIC FLUME

STA 298+22ZB (STA 294+90ZA)

① SEE CURB RAMP DETAILS FOR SIZE



CONCRETE SAFETY ISLANDS



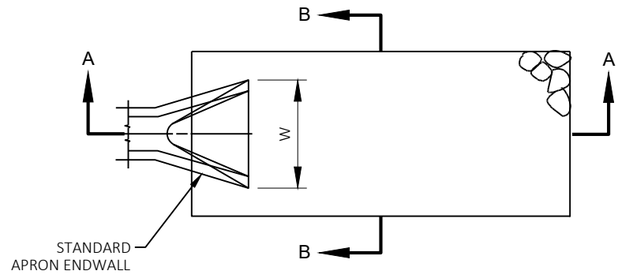
MILL AND OVERLAY BUTT JOINT

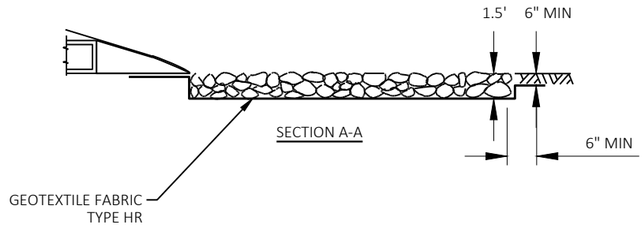
MAPLE BLUFF RD
IH 39 SHOULDERS

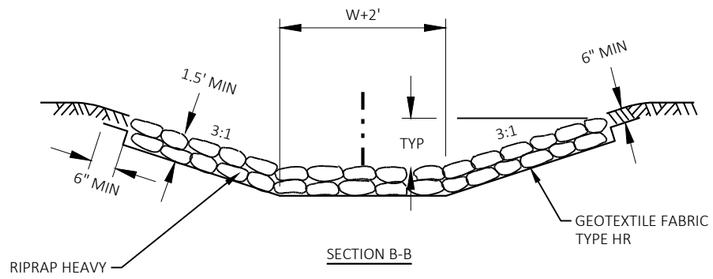
LEGEND

REMOVING ASPHALTIC SURFACE BUTT JOINTS

HMA PAVEMENT UPPER LAYER



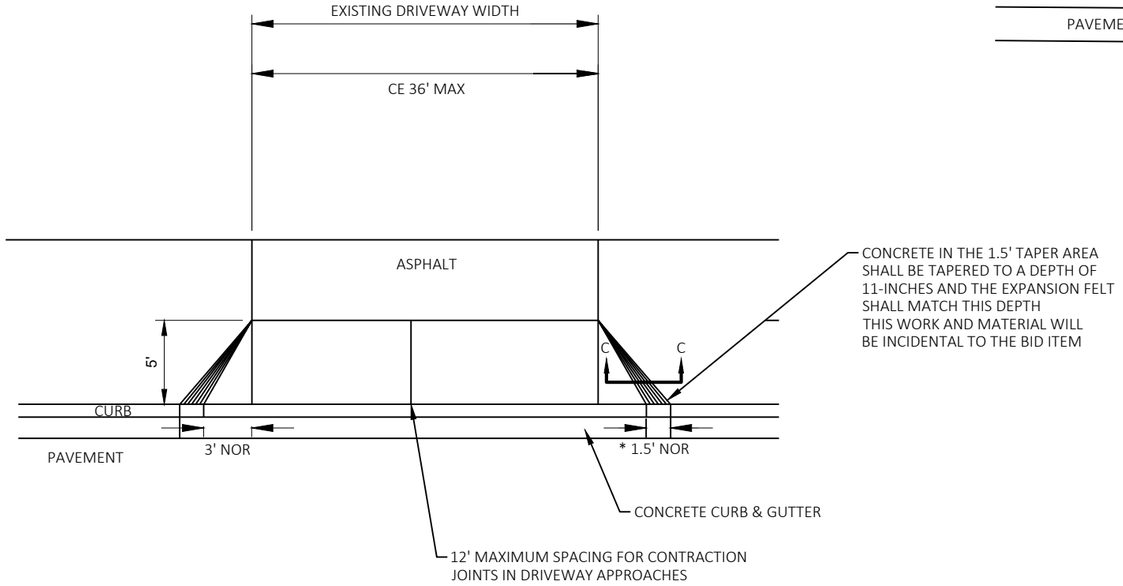




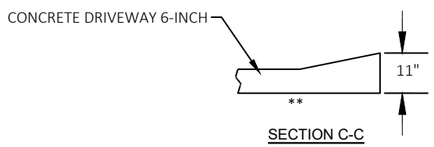
RIPRAP AT OUTFALLS

SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS

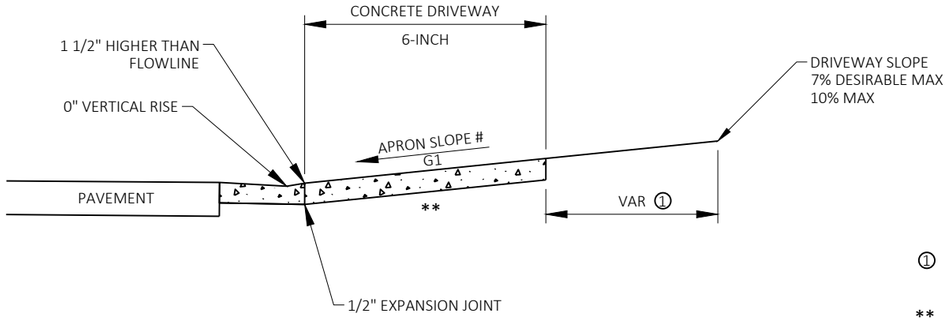
2



PLAN VIEW



SECTION C-C



① 4" BASE AGGREGATE DENSE 1 ¼" WITH 2" ASPHALTIC SURFACE

** 6" BASE AGGREGATE DENSE 1 ¼" REQ'D UNDER CONCRETE DRWY

\#

TERRACE WIDTH	APRON SLOPE (G1)		
	MIN %	DESIRABLE %	MAX %
5 FT	4.0	7.0	9.0

NOTE:
ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%

DEPRESS SIDEWALK PROFILE IF DRIVEWAY APRON EXCEEDS MAX SLOPE

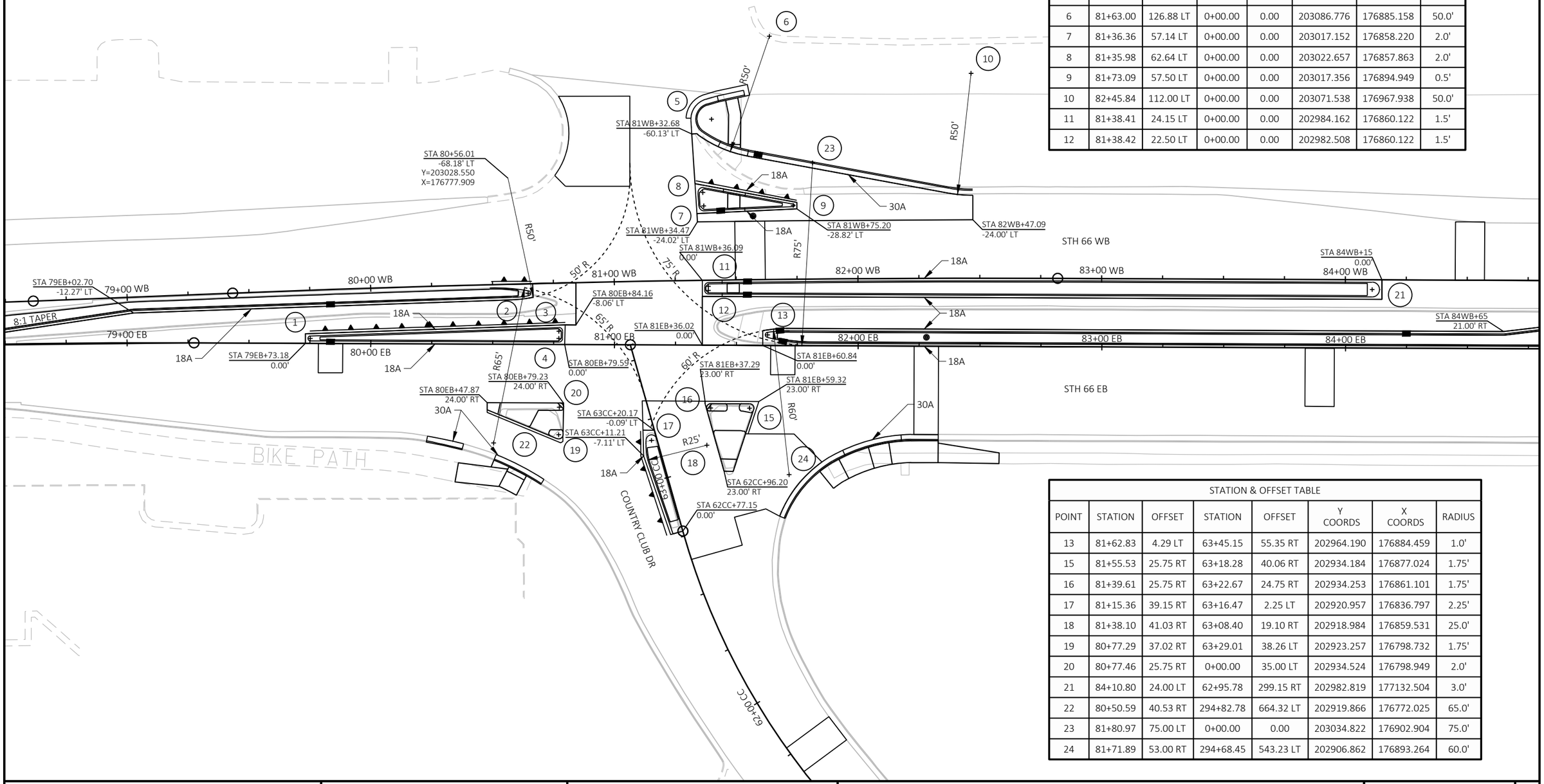
DRIVEWAY ENTRANCE WITH SIDEWALK, CURB & GUTTER

18A CONCRETE CURB & GUTTER 18-INCH TYPE A
30A CONCRETE CURB & GUTTER 30-INCH TYPE A
36S6A CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
36TBTT CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBTT
36T CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
T TRANSITION BETWEEN CURB & GUTTER TYPES
REVERSED SLOPE GUTTER

NOTE:
FIRST STATION OFFSET IS EB, SECOND STATION OFFSET IS CC

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
1	79+75.18	2.00 LT	0+00.00	0.00	202962.721	176696.795	1.0'
2	80+64.44	20.93 LT	0+00.00	0.00	202981.264	176786.140	1.0'
3	80+77.17	5.46 LT	0+00.00	0.00	202965.737	176798.798	1.5'
4	80+77.13	2.50 LT	0+00.00	0.00	202962.776	176798.743	1.5'
5	81+39.41	92.73 LT	0+00.00	0.00	203052.732	176861.424	8.5'
6	81+63.00	126.88 LT	0+00.00	0.00	203086.776	176885.158	50.0'
7	81+36.36	57.14 LT	0+00.00	0.00	203017.152	176858.220	2.0'
8	81+35.98	62.64 LT	0+00.00	0.00	203022.657	176857.863	2.0'
9	81+73.09	57.50 LT	0+00.00	0.00	203017.356	176894.949	0.5'
10	82+45.84	112.00 LT	0+00.00	0.00	203071.538	176967.938	50.0'
11	81+38.41	24.15 LT	0+00.00	0.00	202984.162	176860.122	1.5'
12	81+38.42	22.50 LT	0+00.00	0.00	202982.508	176860.122	1.5'

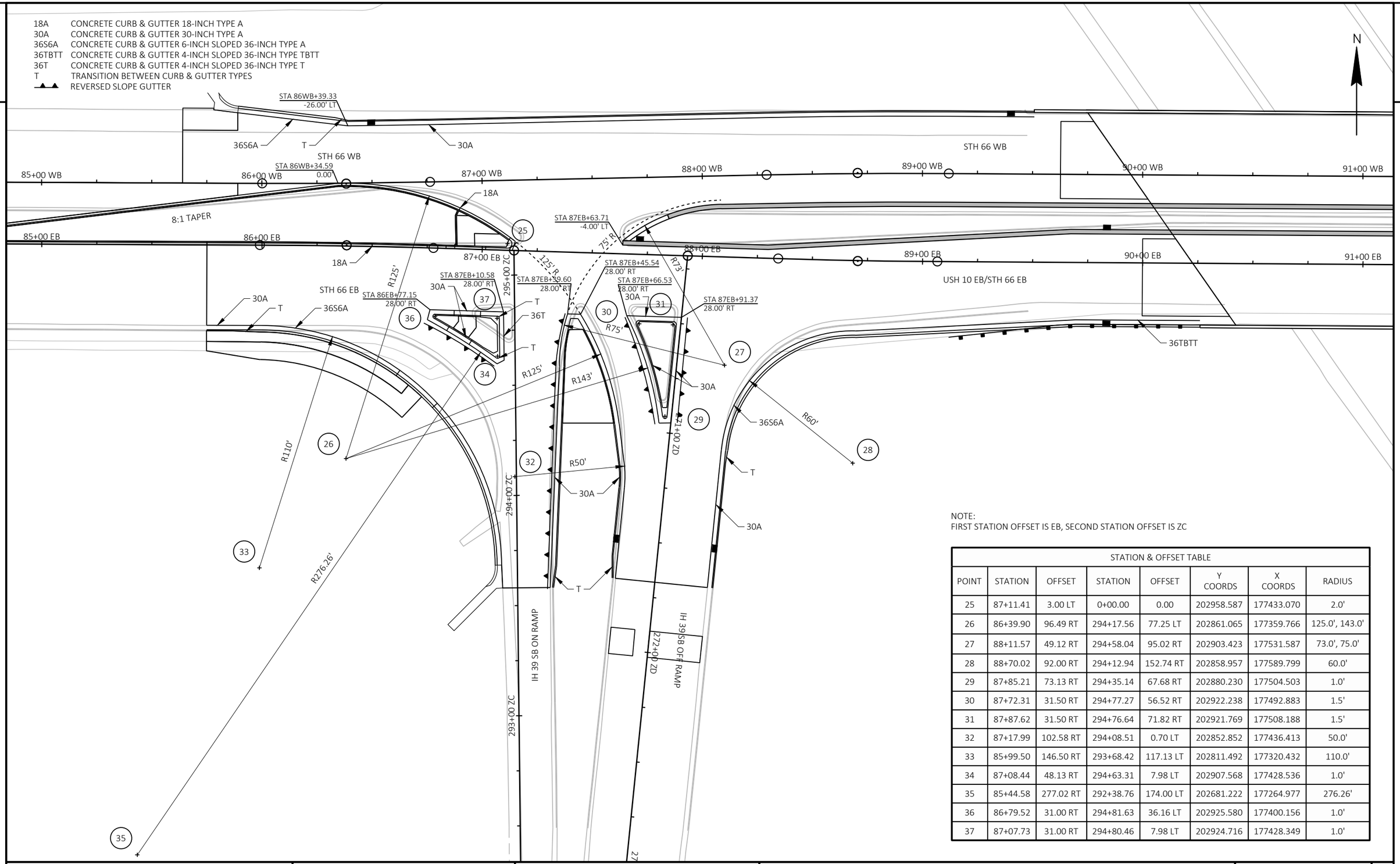
N



STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
13	81+62.83	4.29 LT	63+45.15	55.35 RT	202964.190	176884.459	1.0'
15	81+55.53	25.75 RT	63+18.28	40.06 RT	202934.184	176877.024	1.75'
16	81+39.61	25.75 RT	63+22.67	24.75 RT	202934.253	176861.101	1.75'
17	81+15.36	39.15 RT	63+16.47	2.25 LT	202920.957	176836.797	2.25'
18	81+38.10	41.03 RT	63+08.40	19.10 RT	202918.984	176859.531	25.0'
19	80+77.29	37.02 RT	63+29.01	38.26 LT	202923.257	176798.732	1.75'
20	80+77.46	25.75 RT	0+00.00	35.00 LT	202934.524	176798.949	2.0'
21	84+10.80	24.00 LT	62+95.78	299.15 RT	202982.819	177132.504	3.0'
22	80+50.59	40.53 RT	294+82.78	664.32 LT	202919.866	176772.025	65.0'
23	81+80.97	75.00 LT	0+00.00	0.00	203034.822	176902.904	75.0'
24	81+71.89	53.00 RT	294+68.45	543.23 LT	202906.862	176893.264	60.0'

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	INTERSECTION DETAIL	SHEET 32	E

18A CONCRETE CURB & GUTTER 18-INCH TYPE A
30A CONCRETE CURB & GUTTER 30-INCH TYPE A
36S6A CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
36TBTT CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBTT
36T CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
T TRANSITION BETWEEN CURB & GUTTER TYPES
REVERSED SLOPE GUTTER



NOTE:
FIRST STATION OFFSET IS EB, SECOND STATION OFFSET IS ZC

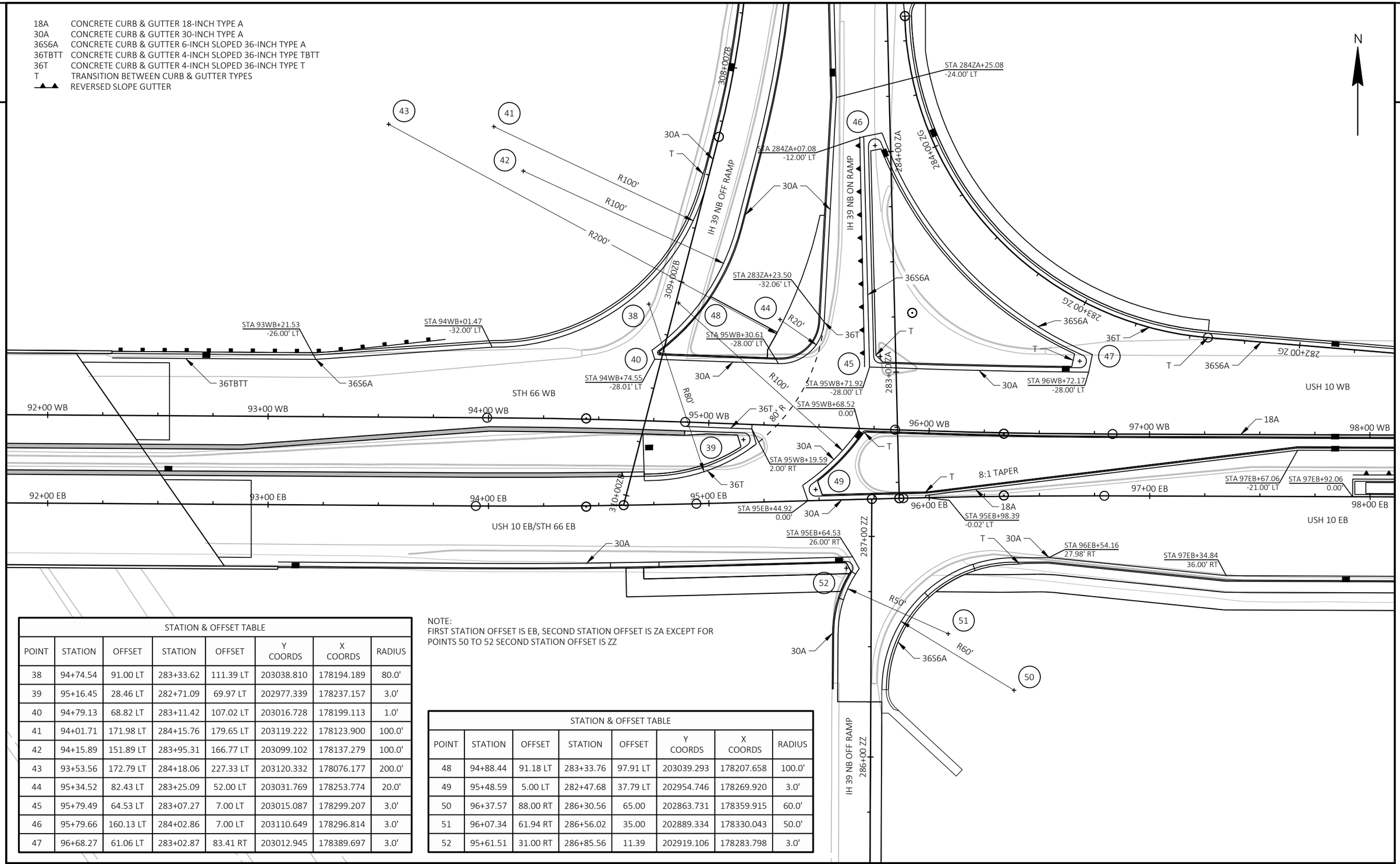
STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
25	87+11.41	3.00 LT	0+00.00	0.00	202958.587	177433.070	2.0'
26	86+39.90	96.49 RT	294+17.56	77.25 LT	202861.065	177359.766	125.0', 143.0'
27	88+11.57	49.12 RT	294+58.04	95.02 RT	202903.423	177531.587	73.0', 75.0'
28	88+70.02	92.00 RT	294+12.94	152.74 RT	202858.957	177589.799	60.0'
29	87+85.21	73.13 RT	294+35.14	67.68 RT	202880.230	177504.503	1.0'
30	87+72.31	31.50 RT	294+77.27	56.52 RT	202922.238	177492.883	1.5'
31	87+87.62	31.50 RT	294+76.64	71.82 RT	202921.769	177508.188	1.5'
32	87+17.99	102.58 RT	294+08.51	0.70 LT	202852.852	177436.413	50.0'
33	85+99.50	146.50 RT	293+68.42	117.13 LT	202811.492	177320.432	110.0'
34	87+08.44	48.13 RT	294+63.31	7.98 LT	202907.568	177428.536	1.0'
35	85+44.58	277.02 RT	292+38.76	174.00 LT	202681.222	177264.977	276.26'
36	86+79.52	31.00 RT	294+81.63	36.16 LT	202925.580	177400.156	1.0'
37	87+07.73	31.00 RT	294+80.46	7.98 LT	202924.716	177428.349	1.0'

PROJECT NO: 1166-06-75 | HWY: USH 10 | COUNTY: PORTAGE | INTERSECTION DETAIL | SHEET 33 | E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 02
PLOT DATE : 6/17/2021 9:11 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

18A CONCRETE CURB & GUTTER 18-INCH TYPE A
30A CONCRETE CURB & GUTTER 30-INCH TYPE A
36S6A CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
36TBTT CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBTT
36T CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
T TRANSITION BETWEEN CURB & GUTTER TYPES
REVERSED SLOPE GUTTER



STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
38	94+74.54	91.00 LT	283+33.62	111.39 LT	203038.810	178194.189	80.0'
39	95+16.45	28.46 LT	282+71.09	69.97 LT	202977.339	178237.157	3.0'
40	94+79.13	68.82 LT	283+11.42	107.02 LT	203016.728	178199.113	1.0'
41	94+01.71	171.98 LT	284+15.76	179.65 LT	203119.222	178123.900	100.0'
42	94+15.89	151.89 LT	283+95.31	166.77 LT	203099.102	178137.279	100.0'
43	93+53.56	172.79 LT	284+18.06	227.33 LT	203120.332	178076.177	200.0'
44	95+34.52	82.43 LT	283+25.09	52.00 LT	203031.769	178253.774	20.0'
45	95+79.49	64.53 LT	283+07.27	7.00 LT	203015.087	178299.207	3.0'
46	95+79.66	160.13 LT	284+02.86	7.00 LT	203110.649	178296.814	3.0'
47	96+68.27	61.06 LT	283+02.87	83.41 RT	203012.945	178389.697	3.0'

NOTE:
FIRST STATION OFFSET IS EB, SECOND STATION OFFSET IS ZA EXCEPT FOR POINTS 50 TO 52 SECOND STATION OFFSET IS ZZ

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
48	94+88.44	91.18 LT	283+33.76	97.91 LT	203039.293	178207.658	100.0'
49	95+48.59	5.00 LT	282+47.68	37.79 LT	202954.746	178269.920	3.0'
50	96+37.57	88.00 RT	286+30.56	65.00	202863.731	178359.915	60.0'
51	96+07.34	61.94 RT	286+56.02	35.00	202889.334	178330.043	50.0'
52	95+61.51	31.00 RT	286+85.56	11.39	202919.106	178283.798	3.0'

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	INTERSECTION DETAIL	SHEET 34	E

18A	CONCRETE CURB & GUTTER 18-INCH TYPE A
30A	CONCRETE CURB & GUTTER 30-INCH TYPE A
36S6A	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
36TBTT	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBTT
36T	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
T	TRANSITION BETWEEN CURB & GUTTER TYPES
	REVERSED SLOPE GUTTER

NOTE:
FIRST STATION OFFSET IS EB, SECOND STATION OFFSET IS MB

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
53	99+38.09	24.00 LT	22+43.05	63.72 LT	202974.934	178659.606	2.0'
54	99+26.13	47.00 RT	21+71.57	75.00 LT	202903.977	178647.392	75.0'
55	98+96.18	114.00 LT	23+32.80	106.16 LT	203065.084	178618.026	50.0'
56	99+60.80	68.50 LT	22+87.69	41.27 LT	203019.352	178682.479	3.0'
57	99+73.11	159.98 LT	23+79.23	29.50 LT	203110.783	178695.122	1.5'
58	99+71.57	68.50 LT	22+87.75	30.50 LT	203019.313	178693.252	3.0'
59	100+94.53	146.00 LT	23+65.98	92.00 RT	203096.369	178816.491	70.0'
60	100+29.13	78.29 LT	22+97.88	27.00 RT	203028.898	178750.846	2.0'
61	100+42.20	70.27 LT	22+89.94	40.11 RT	203020.830	178763.884	2.0'
62	100+29.08	69.25 LT	22+88.84	27.00 RT	203019.851	178750.760	2.0'
63	100+70.44	4.00 LT	22+23.84	68.74 RT	202954.457	178791.883	2.0'\

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
64	100+77.12	75.69 LT	22+95.57	75.00 RT	203026.127	178798.824	75.0'
65	100+46.28	25.75 RT	21+94.19	44.90 RT	202924.794	178767.621	1.75'
66	100+31.13	25.75 RT	21+94.02	29.75 RT	202924.849	178752.467	1.75'
67	100+30.11	93.01 RT	21+26.75	29.50 RT	202857.594	178751.208	1.5'
68	99+72.51	35.31 RT	21+83.79	28.75 LT	202915.504	178693.820	1.75'
69	99+54.42	27.25 RT	21+91.64	46.93 LT	202923.625	178675.755	1.25'
70	99+72.60	27.75 RT	21+91.35	28.75 LT	202923.060	178693.932	1.0'
71	103+58.35	19.74 LT	22+44.05	356.08 RT	202971.937	179079.404	3.0'
72	103+48.89	27.15 LT	22+51.20	346.45 RT	202979.183	179069.838	15.0'
73	103+50.73	10.45 LT	22+34.56	348.74 RT	202962.517	179071.971	15.0'

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	INTERSECTION DETAIL	SHEET 35 E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 04
PLOT DATE : 6/17/2021 9:11 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

N

2

OR TO NEAREST JOINT
STA 24MB+20.24
-26.00' LT

STA 24MB+91.01
-28.00' LT

STA 24MB+97.04
-30.00' LT

STA 25MB+71.29
-28.00' LT

SAW CUT

CONC

ASPH

25+00 MB

26+00 MB

27+00 MB

MAPLE BLUFF RD

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	INTERSECTION DETAIL	SHEET 36	E

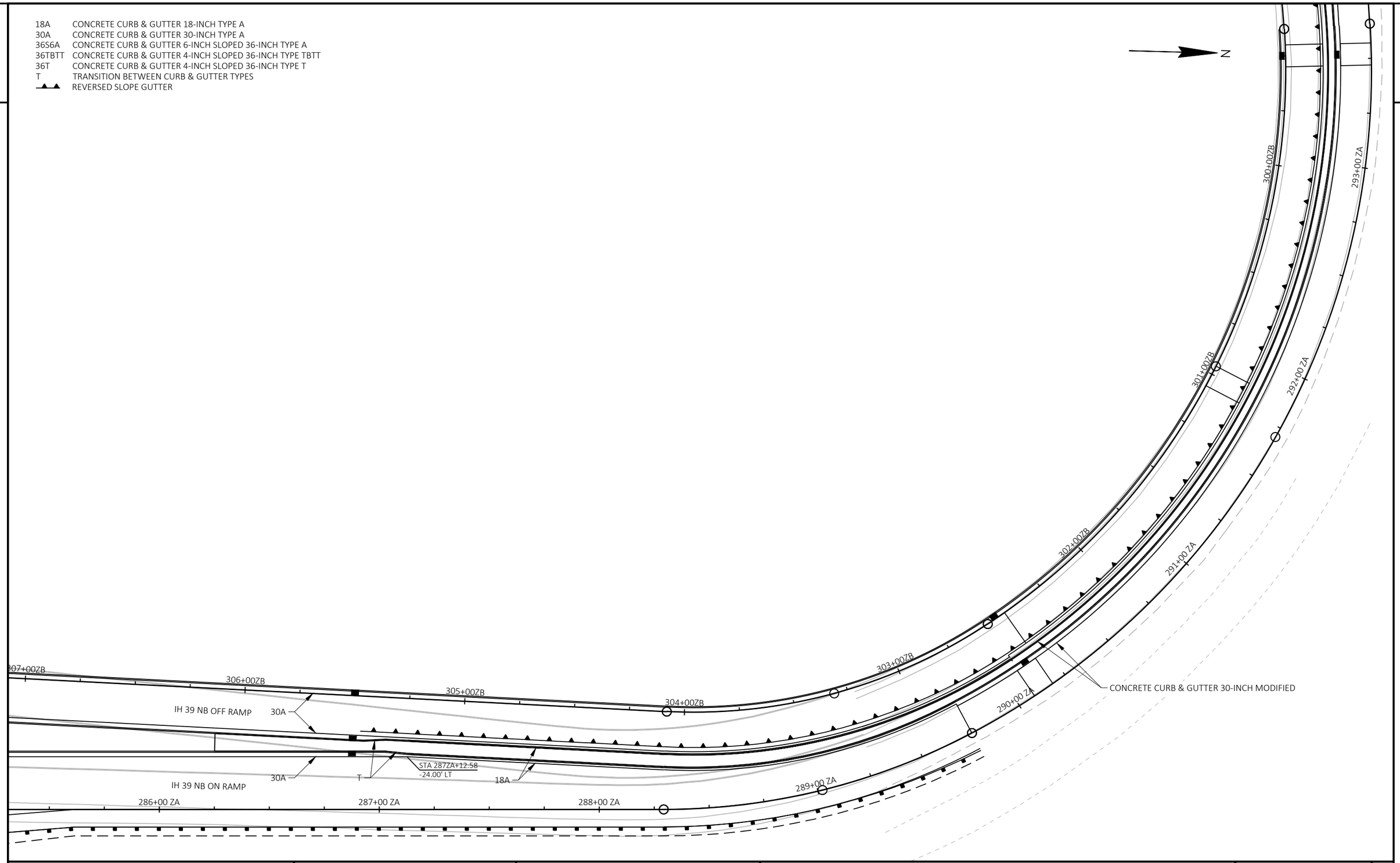
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 05

PLOT DATE : 6/17/2021 9:11 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

18A CONCRETE CURB & GUTTER 18-INCH TYPE A
30A CONCRETE CURB & GUTTER 30-INCH TYPE A
36S6A CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
36TBTT CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBTT
36T CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
T TRANSITION BETWEEN CURB & GUTTER TYPES
REVERSED SLOPE GUTTER



PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	INTERCHNAGE DETAIL	SHEET 37	E

2

N

WB+50.00
-52.05'LT
WB+75.00
-46.83'LT
WB+99.78
-42.03'LT
WB+25.00
-37.24'LT
1095.59
1095.85
1095.93
1096.10
1096.18
1096.33
1096.43
WB+50.00
-36.46'LT
WB+75.00
-31.55'LT
WB+99.86
-26.75'LT

STH 66 WB

79+00WB
80+00WB
81+00WB
82+00WB
83+00WB
84+00WB
WB+15.00
8.00'RT
1095.02
1095.06
1095.09
1095.17
1095.30
1095.52
1095.43
1095.65
1095.56
1095.78
1095.69
1095.91
1095.82
1096.04
1095.95
1096.17
1096.26
1096.30
1096.60
1096.57
1096.50
1096.71
1096.55
1096.81
1096.66
1096.92
1096.76
1097.02
1096.87
1097.13
1096.97
1097.23
1097.07
1097.33
1097.18
1097.44
1097.28
1097.54
1097.39
1097.65
1097.49
1097.75
1097.71
13'
1.1%
3%
CONC
79+00EB
80+00EB
81+00EB
82+00EB
83+00EB
84+00EB
1095.40
EB+03.11
-1.28'LT
1096.55
EB+59.05
-7.00'LT

STH 66 EB

BIKE PATH

COUNTRY CLUB DR

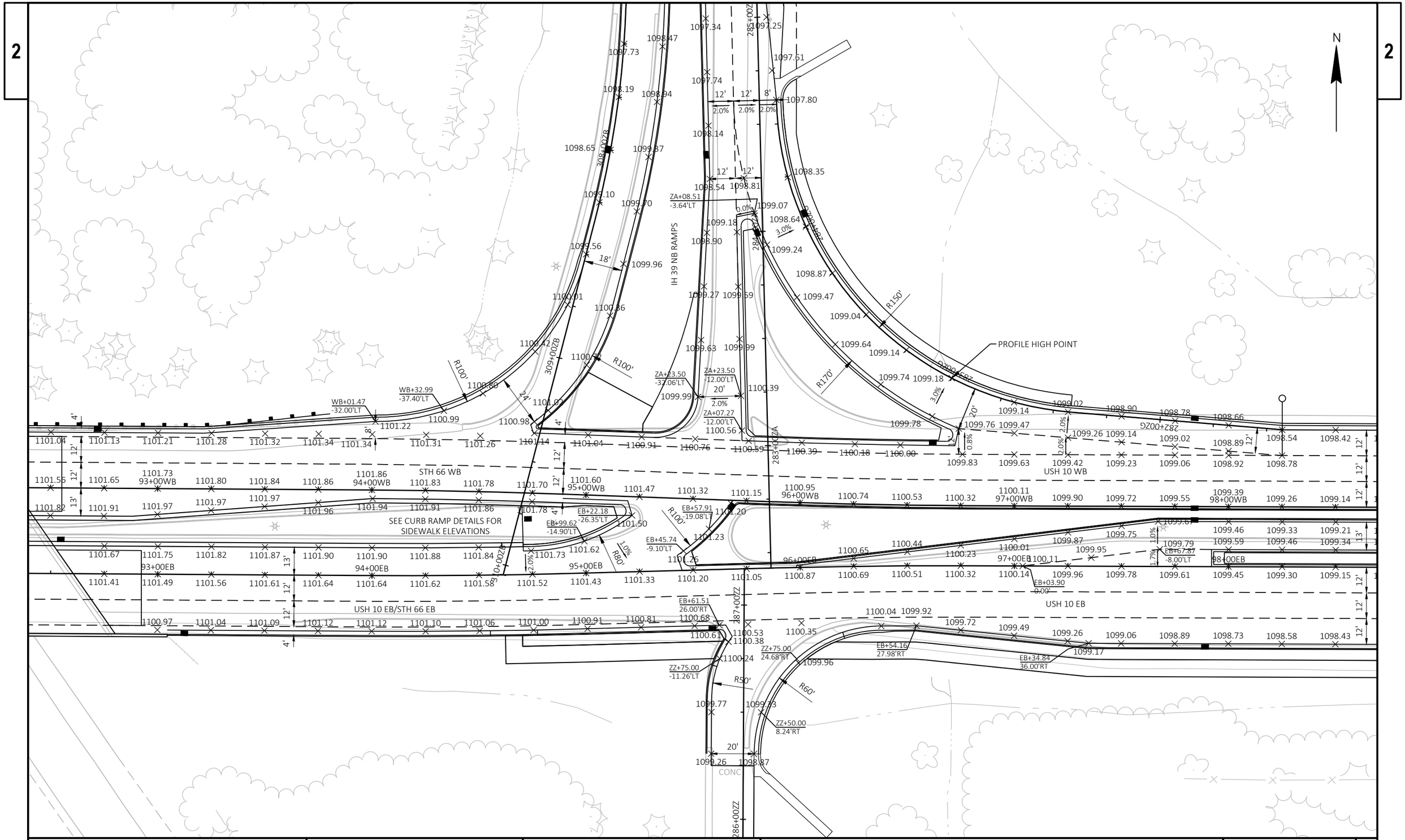
PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	PAVING DETAIL	SHEET 38	E

2

N

WB+88.95
-32.00'LT
1097.89
1098.11
1098.34
1098.41
1098.58
1098.75
1098.91
1099.08
1099.24
1099.39
1099.53
1099.66
1099.77
1099.88
1099.98
1100.07
1100.15
ASPH
CONC
2.0%
1.5%
10'
12'
WB+39.33
-26.00'LT
1098.05
1098.44
1098.60
1098.77
1098.93
1099.10
1099.27
1099.43
1099.60
1099.76
1099.91
1100.05
1100.18
1100.29
1100.40
1100.50
1100.59
1100.66
1100.71
1100.79
WB+15.00
8.00'RT
STH 66 WB
85+00WB
86+00WB
87+00WB
88+00WB
89+00WB
90+00WB
WB+64.20
8.00'RT
0.2%
13'
1097.92
1098.07
1098.08
1098.29
1098.52
1098.85
1098.97
1099.14
1099.66
1099.86
1100.02
1100.22
1100.31
1100.44
1100.55
1100.66
1100.76
1100.85
1100.91
1101.01
1097.75
1097.86
1097.96
1097.80
1097.91
1097.49
1097.60
1097.70
WB+62.06
2.59'RT
WB+85.79
10.25'RT
WB+12.80
26.41'RT
WB+20.68
13.00'RT
WB+64.15
13.00'RT
WB+08.43
13.00'RT
EB+29.74
-4.00'LT
SEE CURB RAMP DETAILS FOR
SIDEWALK ELEVATIONS
1099.95
1099.85
1100.01
1099.68
1099.82
1099.94
1100.10
1100.25
1100.37
1100.48
1100.61
1100.68
1099.66
1099.74
1099.86
1099.97
1099.98
1100.09
1100.19
1100.28
1100.37
1100.45
1100.53
EB+67.30
-13.00'LT
1097.65
1097.83
1097.87
1097.97
1098.11
1098.25
1098.40
1098.41
1098.49
1098.56
1098.61
1098.65
1098.76
1098.80
1098.88
1099.00
1099.07
1099.13
1099.18
1099.30
1099.42
1099.43
1099.46
1099.59
1099.71
1099.83
1099.93
1100.01
1100.09
1.9%
2.0%
1.5%
12'
12.5'
2.0%
1.5%
12'
1.5%
12'
2.0%
1.5%
12.5'
2.0%
2.0%
1098.59
1098.73
1098.88
1099.02
1099.17
1099.32
1099.46
1099.60
1098.28
1098.21
1098.16
1098.55
1098.56
1098.37
1098.57
1098.20
1098.12
1097.85
1097.95
1097.92
1097.94
1097.51
1097.47
1097.49
1097.75
1097.69
1097.35
1097.29
1097.26
1097.65
1097.56
1097.20
1097.05
1096.72
1097.22
1097.33
1097.17
1097.08
1096.74
1096.94
1097.25
1096.66
1096.96
1096.36
CONC
0.5%
3.0%
1.8%
1.6%
0.6%
1.6%
2.0%
2.0%
1.9%
EB+66.39
28.00'RT
EB+79.47
27.93'RT
EB+07.73
28.00'RT
EB+45.54
28.00'RT
EB+66.61
28.15'RT
EB+91.37
28.00'RT
EB+70.02
32.00'RT
USH 10 EB/STH 66 EB
EB+92.71
41.71'RT
EB+39.36
43.50'RT
PROFILE HIGH POINT
EB+77.38
66.14'RT
ZD+72.58
12.52'RT
ZD+64.57
-39.88'LT
ZD+73.03
31.96'RT
ZD+98.09
23.29'RT
ZD+05.23
-24.00'LT
ZD+15.44
19.28'RT
ZC+14.61
17.76'RT
ZD+33.27
0.00'
ZC+71.55
-7.17'LT
VPT
295+00ZC
272+00ZD
IH 39 SB ON RAMP
IH 39 SB OFF RAMP

PROJECT NO: 1166-06-75/6290-09-70/71	HWY: USH 10/STH 66	COUNTY: PORTAGE	PAVING DETAIL	SHEET 39	E



PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PAVING DETAIL	SHEET 40	E

2

N

ASPH
1096.59
CONC
1096.49
1096.39
1096.31
14'
1096.62
1096.42
2.0%
MB+82.95
-32.52'LT
1096.68
MB+50.00
-52.43'LT
1096.75
1097.02
1097.40
16'
MB+24.27
-56.89'LT
1097.13
MB+00.00
-68.42'LT
WB+25.00
-45.01'LT
1097.61
1097.79
1098.66
1097.85
1098.89
12'
1098.54
1098.42
1098.31
1098.24
1098.15
1098.07
1097.99
1098.92
1098.78
12'
USH 10 WB
2.0%
CONC
1099.39
98+00WB
1099.26
1099.14
12'
1099.03
1098.95
99+00WB
1098.87
1098.79
1098.71
100+00WB
1098.87
1099.46
1099.33
1099.21
13'
1099.11
1099.02
1098.94
1.0%
20'
1099.59
1099.46
1099.34
1099.24
1099.15
1099.07
1098.93
1098.74
EB+74.53
0.00'RT
98+00EB
99+00EB
100+00EB
1099.45
1099.30
1099.15
12'
1099.01
1098.87
1098.81
1098.74
0.00
2.0%
1.6%
CONC
USH 10 EB
1098.73
1098.58
1098.43
2.0%
1098.29
1.6%
1098.20
MAPLE BLUFF RD
24+00MB
23+00MB
22+00MB
OLD HWY 18 RD
+00MB
1096.88
MB+50.00
23.85'RT
MB+25.00
35.25'RT
1097.03
1097.09
1097.13
WB+49.98
-64.16'LT
1097.49
1097.29
WB+74.98
-50.84'LT
1097.67
1097.67
1097.67
12'
12'
USH 10 WB
WB+92.05
8.00'RT
101+00WB
102+00WB
103+00WB
104+00WB
1.6%
1098.59
1098.67
1.0%
1098.59
2.0%
1098.48
1098.36
13'
1098.26
1098.23
1098.26
2.0%
1098.03
1098.58
1.6%
1098.40
1098.22
1098.10
1098.00
1097.97
102+00EB
101+00EB
103+00EB
104+00EB
1098.37
1098.45
1098.11
1098.19
1098.35
1098.52
1098.69
USH 10 EB

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PAVING DETAIL	SHEET 41	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021102-ID.DWG
LAYOUT NAME - 04

PLOT DATE : 6/17/2021 9:27 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

IH 39 NB OFF RAMP

IH 39 NB ON RAMP

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PAVING DETAIL	SHEET 42	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021102-ID.DWG
LAYOUT NAME - 05

PLOT DATE : 6/17/2021 9:27 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

IH 39 SB/USH 51 SB

STH 66 WB

89+00WB

90+00WB

91+00WB

89+00EB

90+00EB

91+00EB

USH 10 EB/STH 66 EB

EXISTING STORM SEWER TO BE REMOVED

+24.4
END DRIVEWAY CURB

34.34'

28.00'

+70.0EB
BEGIN DRIVEWAY CURB
AT END OF RADIUS

+12.0

+07.0

+64.8

+89.9

3.5'

5.5'

GUARDRAIL MOW STRIP
CONCRETE

EDGE OF TERRACE

SLOPE INTERCEPT

MGS GUARDRAIL TERMINAL EAT

MGS GUARDRAIL 3

MGS THRIE BEAM TRANSITION

TYPE A 6-INCH SLOPED
CURB AND GUTTER

TYPE TBTT
CURB AND GUTTER

WISDOT SIGNALS
TO BE REMOVED

IH 39 SB OFF RAMP

AT&T WISCONSIN

OVERHEAD LINES
WISCONSIN PUBLIC SERVICE
CHARTER COMMUNICATIONS
WINDSTREAM KDL

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	MGS GUARDRAIL DETAIL - USH 10 EB AT B-49-24	SHEET 43	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 01

PLOT DATE : 3/16/2021 6:41 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

SLOPE INTERCEPT

EDGE OF TERRACE

ELECTRIC FOR 50 FOOT CAMERA SYSTEM

TYPE TBTT CURB AND GUTTER

TYPE A 6-INCH SLOPED CURB AND GUTTER

GUARDRAIL MOW STRIP CONCRETE

MGS THRIE BEAM TRANSITION

MGS GUARDRAIL 3

MGS GUARDRAIL TERMINAL EAT

50 FOOT CAMERA SYSTEM TO REMAIN DO NOT DISTURB

IH 39 NB OFF RAMP

+65.6

+28.1

BEGIN DRIVEWAY CURB

+68.6

+80.9

5.5'

5.3'

+05.9

END DRIVEWAY CURB

EXISTING STORM SEWER TO BE REMOVED

28.00'

35.49'

STH 66 WB

92+00WB

93+00WB

94+00WB

95+00WB

92+00EB

93+00EB

94+00EB

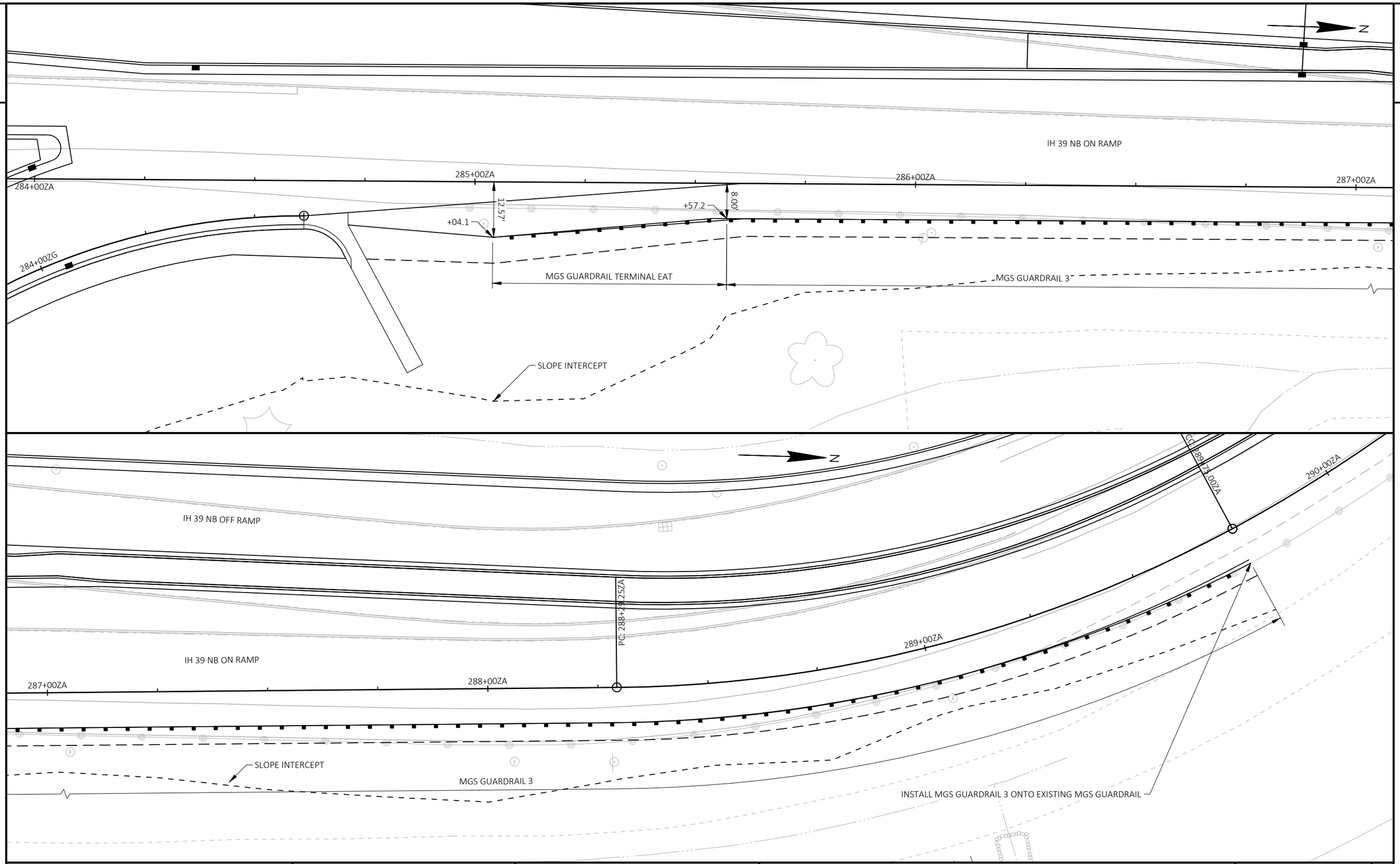
95+00EB

USH 10 EB/STH 66 EB

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	MGS GUARDRAIL DETAIL - USH 10 WB AT B-49-24	SHEET 44	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 02

PLOT DATE : 3/16/2021 6:42 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:20 FT

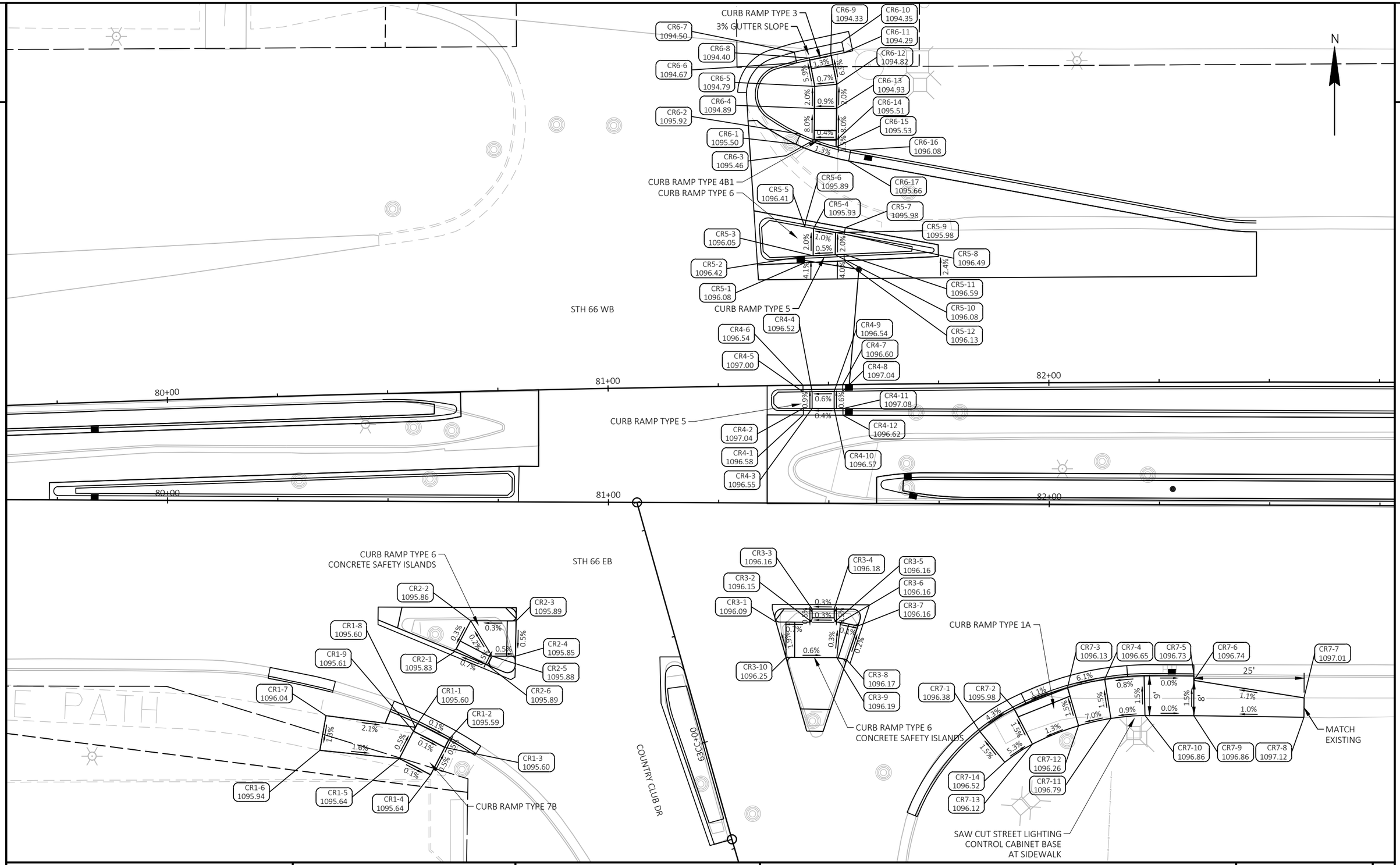


PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	MGS GUARDRAIL DETAIL - IH 39 NB ON RAMP	SHEET 45	E

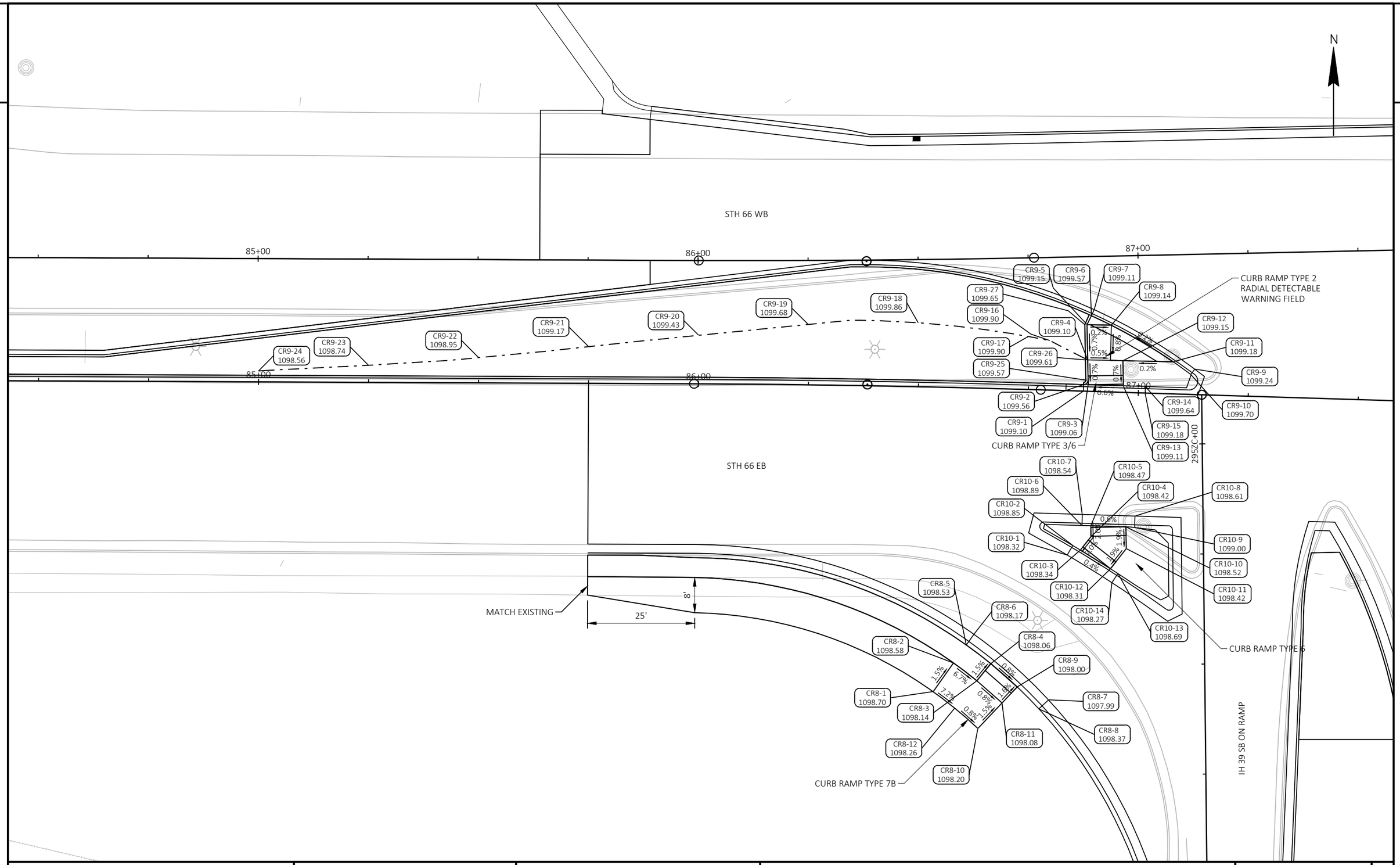
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 03

PLOT DATE : 3/16/2021 6:42 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	CURB RAMP DETAILS - COUNTRY CLUB DR	SHEET 46	E



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CURB RAMP DETAILS - SB RAMP INTERSECTION (WEST)	SHEET 47	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021205-PD-2.DWG
LAYOUT NAME - 02

PLOT DATE : 6/29/2021 11:08 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

N

INLET COVER TO MATCH
SIDEWALK CROSS SLOPE
SEE CONSTRUCTION DETAILS

CURB RAMP TYPE 7B
RADIAL DETECTABLE WARNING FIELD

STH 66 WB

88+00

89+00

90+00

CR11-13 1100.01
CR11-14 1099.99
CR11-30 1100.16
CR11-29 1100.35
CR11-28 1100.48
CR11-27 1100.60
CR11-26 1100.70
CR11-25 1100.80
CR11-21 1100.86
CR11-22 1100.92
CR11-23 1100.95

INLET COVER TO MATCH
SIDEWALK CROSS SLOPE
SEE CONSTRUCTION DETAILS

CR11-24 1101.03

1.5%
0.6%
2.0%
0.7%
0.5%
2.0%

CR11-15 1100.09
CR11-16 1100.24
CR11-17 1100.41
CR11-18 1100.55
CR11-19 1100.65
CR11-20 1100.74

CR11-1 1099.66
CR11-2 1099.72
CR11-3 1099.86
CR11-4 1099.98
CR11-5 1100.14
CR11-6 1100.28
CR11-7 1100.41
CR11-8 1100.53
CR11-9 1100.65
CR11-10 1100.72
CR11-11 1100.75
CR11-12 1100.83

88+00

89+00

90+00

USH 10 EB/STH 66 EB

27+20.00

IH 39 SB OFF RAMP

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CURB RAMP DETAILS - SB RAMP INTERSECTION (EAST)	SHEET 48	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021205-PD-2.DWG
LAYOUT NAME - 03
PLOT DATE : 6/29/2021 11:09 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

2

2

N

IH 39 NB OFF RAMP

STH 66 WB

93+00

94+00

95+00

INLET COVER TO MATCH
SIDEWALK CROSS SLOPE
SEE CONSTRUCTION DETAILS

CR12-1 1101.83
CR12-2 1101.91
CR12-3 1101.96
CR12-4 1101.99
CR12-5 1102.01
CR12-6 1102.02
CR12-7 1102.04
CR12-8 1102.06
CR12-9 1102.04
CR12-10 1102.09
CR12-11 1102.02
CR12-12 1102.09
CR12-13 1102.00
CR12-14 1101.98
CR12-15 1101.98
CR12-16 1101.78
CR12-17 1101.96
CR12-18 1101.77
CR12-19 1101.95
CR12-20 1101.73
CR12-21 1101.90
CR12-22 1101.71
CR12-23 1101.87
CR12-24 1101.68
CR12-25 1101.84
CR12-26 1101.77
CR12-27 1101.94
CR12-28 1102.01
CR12-29 1101.90
CR12-30 1101.88
CR12-31 1101.95
CR12-32 1101.79
CR12-33 1101.78
CR12-34 1101.86
CR12-35 1101.80
CR12-36 1101.81
CR12-37 1101.86
CR12-38 1101.88
CR12-39 1101.92
CR12-40 1101.93
CR12-41 1101.94
CR12-42 1101.94
CR12-43 1101.94
CR12-44 1101.91
CR12-45 1101.86
CR12-46 1101.79
CR12-47 1101.76
CR12-48 1101.71
CR12-49 1101.63
CR12-50 1101.67

2.0%
1.5%
0.8%
1.1%
2.1%
0.3%
1.0%

INLET COVER TO MATCH
SIDEWALK CROSS SLOPE
SEE CONSTRUCTION DETAILS

93+00

94+00

95+00

3102B+00

CURB RAMP TYPE 7B

USH 10 EB/STH 66 EB

CR13-1 1101.47
CR13-2 1101.05
CR13-3 1100.99
CR13-4 1101.41
CR13-5 1100.93
CR13-6 1101.01
CR13-7 1101.61
CR13-8 1101.49
CR13-9 1101.13
CR13-10 1101.15
CR13-11 1101.03
CR13-12 1100.95

0.3%
1.5%
0.1%
6.8%
4.0%

CURB RAMP TYPE 7B

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CURB RAMP DETAILS - NB RAMP INTERSECTION (WEST)	SHEET 49	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021205-PD-2.DWG
LAYOUT NAME - 04

PLOT DATE : 6/29/2021 11:09 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

USH 10 WB

N

96+00

97+00

98+00

96+00

97+00

98+00

USH 10 EB

287ZZ+00

CR14-5
1101.03

CR14-4
1100.44

CR14-7
1100.30

CR14-3
1100.29

CR14-6
1100.38

CR14-1
1101.34

6.7%

0.6%

0.5%

1.5%

1.5%

1.5%

1.5%

1.8%

0.5%

6.7%

CR14-2
1100.27

CR14-11
1101.22

CR14-10
1100.15

CURB RAMP
TYPE 4B1

CR14-8
1100.18

CR14-9
1100.40

IH 39 NB OFF RAMP

2867ZZ+00

CR15-1
1100.08

CR15-2
1100.49

CR15-4
1100.08

CR15-3
1099.98

3.7%

0.7%

1.7%

0.8%

1.5%

1.5%

CR15-5
1100.66

3.7%

0.7%

1.8%

CR15-6
1100.78

CR15-10
1099.88

CR15-8
1099.85

CR15-7
1100.20

CR15-9
1100.23

CURB RAMP TYPE 4B1
RADIAL DETECTABLE
WARNING FIELD

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CURB RAMP DETAILS - NB RAMP INTERSECTIN (EAST)	SHEET 50	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021205-PD-2.DWG
LAYOUT NAME - 05

PLOT DATE : 6/29/2021 11:09 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

2

USH 10 WB

99+00

100+00

101+00

N

CR20-3 1098.53
CR20-1 1098.57
CR20-2 1099.03
CR20-10 1098.52
CR20-12 1098.55
CR20-11 1099.01
CR20-5 1099.08
CR20-9 1098.62
CR20-6 1098.63
CR20-8 1099.12
CR20-4 1098.59
CR20-7 1098.66
CURB RAMP TYPE 5

99+00

100+00

101+00

USH 10 EB

22MB+00

CURB RAMP TYPE 6
CONCRETE SAFETY ISLANDS

CR17-2 1098.07
CR17-3 1098.08
CR16-9 1097.70
CR16-12 1097.78
CR17-1 1098.06
CR17-4 1097.99
CR17-5 1097.99
CR17-6 1097.99
CR16-11 1098.20
CR16-10 1097.63
CR16-3 1097.54
CR16-8 1098.43
CR16-1 1097.47
CR16-7 1098.55
CR16-2 1097.89
CR16-6 1097.85
CR16-4 1097.61
CR16-5 1097.73
CURB RAMP TYPE 7B

CURB RAMP TYPE 6
CONCRETE
SAFETY ISLANDS

CR18-4 1098.03
CR18-3 1098.04
CR18-5 1097.90
CR18-6 1097.88
CR18-1 1097.93
CR18-7 1097.85
CR18-10 1097.83
CR18-9 1097.76
CR18-8 1097.71
CR18-2 1097.95

CR19-1 1097.62
CR19-2 1097.58
CR19-3 1098.15
CR19-6 1097.31
CR19-4 1098.20
CR19-5 1097.50
CURB RAMP TYPE 4B1
RADIAL DETECTABLE WARNING FIELD

OLD HWY 18 RD

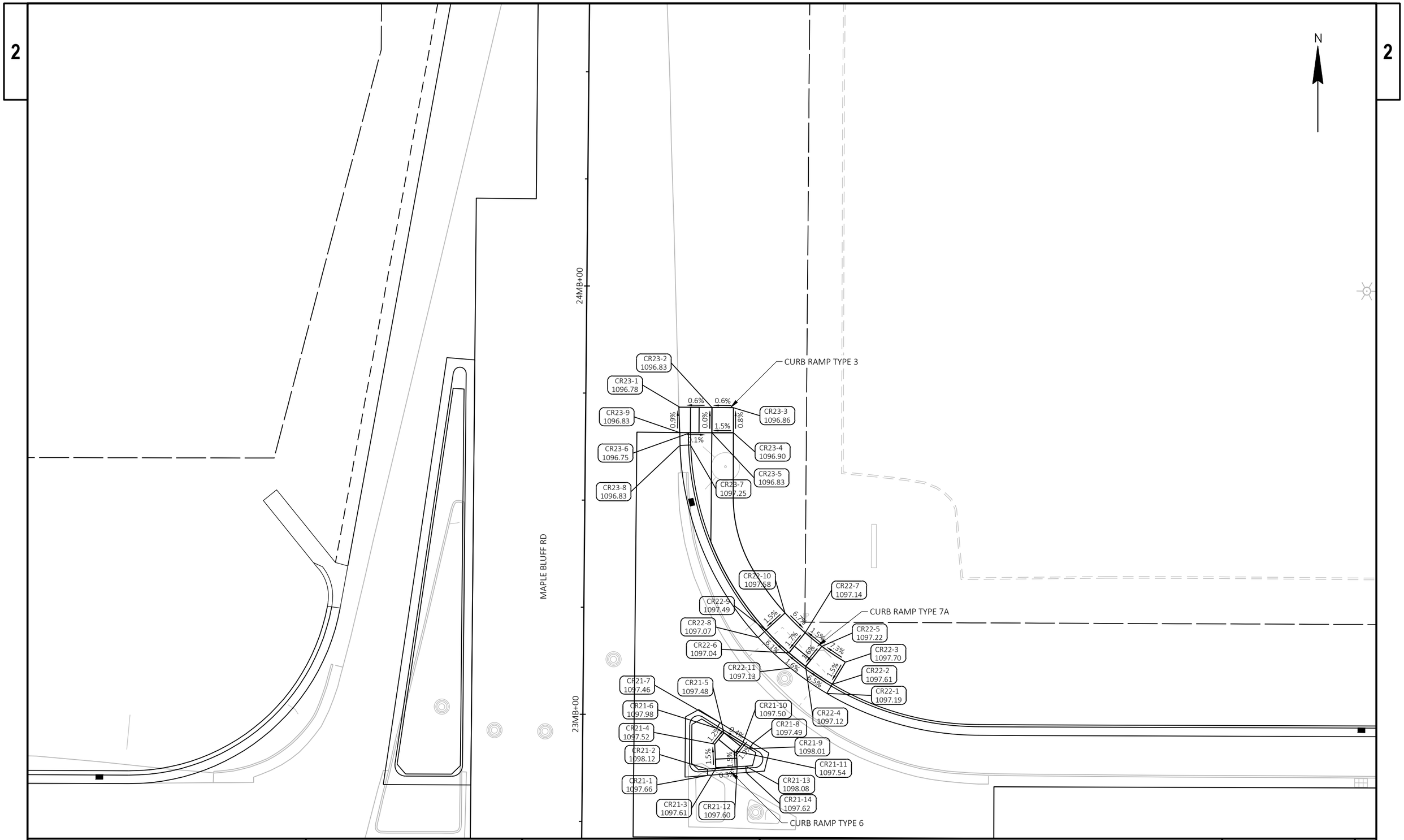
21MB+00

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	CURB RAMP DETAILS - MAPLE BLUFF RD/OLD HWY 18 INTERSECTION	SHEET 51	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021205-PD-2.DWG
LAYOUT NAME - 06

PLOT DATE : 6/29/2021 11:09 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	CURB RAMP DETAILS - MAPLE BLUFF RD/OLD HWY 18 RD INTERSECTION	SHEET 52	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021205-PD-2.DWG
LAYOUT NAME - 07
PLOT DATE : 6/29/2021 11:09 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

① CR1					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR1-1	80+56.93	50.34' RT	1095.60	202910.02	176778.32
CR1-2	80+64.02	53.96' RT	1095.59	202906.38	176785.39
CR1-3	80+63.14	55.76' RT	1095.60	202904.58	176784.50
CR1-4	80+59.94	61.99' RT	1095.64	202898.36	176781.28
CR1-5	80+52.82	58.34' RT	1095.64	202902.04	176774.18
CR1-6	80+34.81	56.54' RT	1095.94	202903.92	176756.17
CR1-7	80+36.17	48.67' RT	1096.04	202911.78	176757.57
CR1-8	80+56.47	51.22' RT	1095.60	202909.14	176777.86
CR1-9	80+56.02	52.11' RT	1095.61	202908.26	176777.40

① CR2					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR2-1	80+65.30	34.01' RT	1095.83	202926.32	176786.76
CR2-2	80+68.89	27.00' RT	1095.86	202933.31	176790.38
CR2-3	80+79.19	27.00' RT	1095.89	202933.27	176800.68
CR2-4	80+79.07	35.00' RT	1095.85	202925.27	176800.52
CR2-5	80+73.78	35.00' RT	1095.88	202925.29	176795.23
CR2-6	80+72.73	37.05' RT	1095.89	202923.25	176794.18

① CR3					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR3-1	81+38.15	27.00' RT	1096.09	202933.01	176859.63
CR3-2	81+46.32	27.00' RT	1096.15	202932.97	176867.81
CR3-3	81+46.31	24.00' RT	1096.16	202935.97	176867.81
CR3-4	81+51.31	24.00' RT	1096.18	202935.95	176872.81
CR3-5	81+51.32	27.00' RT	1096.16	202932.95	176872.81
CR3-6	81+52.76	27.00' RT	1096.16	202932.95	176874.25
CR3-7	81+56.71	27.78' RT	1096.16	202932.15	176878.19
CR3-8	81+54.16	35.43' RT	1096.17	202924.51	176875.61
CR3-9	81+51.98	35.00' RT	1096.19	202924.95	176873.43
CR3-10	81+40.44	35.00' RT	1096.25	202925.00	176861.89

① EB LINE
② WB LINE
③ MB LINE

② CR4					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR4-1	81+44.18	6.76' RT	1096.58	202979.98	176865.80
CR4-2	81+44.21	5.26' RT	1097.04	202981.48	176865.81
CR4-3	81+46.21	5.29' RT	1096.55	202981.48	176867.81
CR4-4	81+46.27	1.50' RT	1096.52	202985.27	176867.81
CR4-5	81+44.21	1.50' RT	1097.00	202985.24	176865.76
CR4-6	81+44.21	0.00' RT	1096.54	202986.74	176865.74
CR4-7	81+53.22	0.00'	1096.60	202986.86	176874.74
CR4-8	81+53.20	1.50' RT	1097.04	202985.36	176874.74
CR4-9	81+51.27	1.50' RT	1096.54	202985.33	176872.81
CR4-10	81+51.22	5.38' RT	1096.57	202981.45	176872.81
CR4-11	81+53.22	5.42' RT	1097.08	202981.44	176874.81
CR4-12	81+53.19	6.92' RT	1096.62	202979.94	176874.81

② CR5					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR5-1	81+44.99	27.77' LT	1096.08	203014.52	176866.14
CR5-2	81+44.94	29.26' LT	1096.42	203016.01	176866.07
CR5-3	81+46.93	29.33' LT	1096.05	203016.11	176868.06
CR5-4	81+47.06	35.52' LT	1095.93	203022.30	176868.12
CR5-5	81+45.11	35.91' LT	1096.41	203022.66	176866.15
CR5-6	81+45.40	37.38' LT	1095.89	203024.13	176866.42
CR5-7	81+54.26	35.62' LT	1095.98	203022.49	176875.35
CR5-8	81+53.97	34.15' LT	1096.49	203021.01	176875.07
CR5-9	81+52.02	34.53' LT	1095.98	203021.38	176873.11
CR5-10	81+51.91	29.50' LT	1096.08	203016.34	176873.07
CR5-11	81+53.91	29.56' LT	1096.59	203016.43	176875.06
CR5-12	81+53.96	28.07' LT	1096.13	203014.93	176875.13

② CR6					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR6-1	81+43.35	54.69' LT	1095.50	203041.41	176864.13
CR6-2	81+44.43	56.94' LT	1095.92	203043.68	176865.18
CR6-3	81+47.49	55.59' LT	1095.46	203042.38	176868.28
CR6-4	81+47.66	62.75' LT	1094.89	203049.54	176868.36
CR6-5	81+47.78	67.75' LT	1094.79	203054.53	176868.41
CR6-6	81+43.79	73.12' LT	1094.67	203059.85	176864.32
CR6-7	81+43.31	75.58' LT	1094.50	203062.30	176863.79
CR6-8	81+46.61	74.19' LT	1094.40	203060.96	176867.15
CR6-9	81+51.47	75.17' LT	1094.33	203062.00	176872.04
CR6-10	81+53.99	77.74' LT	1094.35	203064.60	176874.55
CR6-11	81+54.47	75.29' LT	1094.29	203062.16	176875.07
CR6-12	81+52.75	68.14' LT	1094.82	203054.99	176873.42
CR6-13	81+52.62	62.63' LT	1094.93	203049.48	176873.36
CR6-14	81+52.45	55.47' LT	1095.51	203042.32	176873.28
CR6-15	81+52.42	53.94' LT	1095.53	203040.79	176873.26
CR6-16	81+55.68	53.17' LT	1096.08	203040.06	176876.56
CR6-17	81+55.20	50.71' LT	1095.66	203037.59	176876.11

① CR7					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR7-1	81+84.48	51.60' RT	1096.38	202908.21	176905.86
CR7-2	81+92.25	46.47' RT	1095.98	202913.31	176913.66
CR7-3	82+04.32	41.57' RT	1096.13	202918.15	176925.74
CR7-4	82+12.75	39.65' RT	1096.65	202920.04	176934.18
CR7-5	82+32.99	38.80' RT	1096.73	202920.80	176954.42
CR7-6	82+32.99	39.80' RT	1096.74	202919.80	176954.42
CR7-7	82+57.99	43.68' RT	1097.01	202915.81	176979.41
CR7-8	82+58.00	48.06' RT	1097.12	202911.43	176979.39
CR7-9	82+32.99	47.80' RT	1096.86	202911.80	176954.38
CR7-10	82+21.93	47.80' RT	1096.86	202911.84	176943.33
CR7-11	82+14.19	48.53' RT	1096.79	202911.15	176935.58
CR7-12	82+06.88	50.20' RT	1096.26	202909.51	176928.27
CR7-13	81+96.43	54.44' RT	1096.12	202905.31	176917.79
CR7-14	81+90.18	58.56' RT	1096.52	202901.22	176911.53

CR11					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR11-1	87+63.71	6.00' LT	1099.66	202959.98	177485.44
CR11-2	87+75.00	6.00' LT	1099.72	202959.64	177496.73
CR11-3	88+00.00	6.00' LT	1099.86	202958.87	177521.71
CR11-4	88+25.00	6.00' LT	1099.98	202958.11	177546.70
CR11-5	88+50.00	7.64' LT	1100.14	202959.02	177571.70
CR11-6	88+75.00	9.46' LT	1100.28	202960.31	177596.66
CR11-7	89+00.00	11.07' LT	1100.41	202961.60	177621.60
CR11-8	89+25.00	12.54' LT	1100.53	202962.89	177646.58
CR11-9	89+50.00	14.00' LT	1100.65	202964.19	177671.59
CR11-10	89+67.23	15.00' LT	1100.72	202965.08	177688.82
CR11-11	89+75.00	15.00' LT	1100.75	202965.03	177696.60
CR11-12	90+00.00	15.00' LT	1100.83	202964.86	177721.60
CR11-13	87+83.63	18.32' LT	1100.01	202971.69	177505.73
CR11-14	87+84.39	16.48' LT	1099.99	202969.83	177506.43
CR11-15	88+00.00	17.41' LT	1100.09	202970.28	177522.06
CR11-16	88+25.00	18.90' LT	1100.24	202971.00	177547.10
CR11-17	88+50.00	20.34' LT	1100.41	202971.72	177572.02
CR11-18	88+75.00	21.58' LT	1100.55	202972.43	177596.87
CR11-19	89+00.00	22.62' LT	1100.65	202973.15	177621.70
CR11-20	89+25.00	23.51' LT	1100.74	202973.86	177646.65
CR11-21	89+50.00	24.39' LT	1100.86	202974.58	177671.66
CR11-22	89+67.23	25.00' LT	1100.92	202975.08	177688.89
CR11-23	89+75.00	25.00' LT	1100.95	202975.03	177696.66
CR11-24	90+00.00	25.00' LT	1101.03	202974.86	177721.66
CR11-25	89+25.00	25.00' LT	1100.80	202975.36	177646.66
CR11-26	89+00.00	24.97' LT	1100.70	202975.50	177621.72
CR11-27	88+75.00	24.61' LT	1100.60	202975.46	177596.92
CR11-28	88+50.00	23.84' LT	1100.48	202975.22	177572.11
CR11-29	88+25.00	22.67' LT	1100.35	202974.77	177547.21
CR11-30	88+00.00	20.94' LT	1100.16	202973.80	177522.17

① CR9					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR9-1	86+87.50	0.00'	1099.10	202956.32	177409.08
CR9-2	86+87.50	1.50' LT	1099.56	202957.82	177409.13
CR9-3	86+88.55	1.50' LT	1099.06	202957.79	177410.18
CR9-4	86+88.27	7.12' LT	1099.10	202963.42	177410.07
CR9-5	86+87.88	15.12' LT	1099.15	202971.42	177409.93
CR9-6	86+88.83	17.19' LT	1099.57	202973.47	177410.93
CR9-7	86+89.40	18.58' LT	1099.11	202974.83	177411.56
CR9-8	86+93.39	15.16' LT	1099.14	202971.29	177415.44
CR9-9	87+12.66	5.79' LT	1099.24	202961.33	177434.41
CR9-10	87+11.80	4.56' LT	1099.70	202960.13	177433.51
CR9-11	87+07.69	7.30' LT	1099.18	202963.00	177429.49
CR9-12	86+96.28	7.20' LT	1099.15	202963.24	177418.08
CR9-13	86+96.56	1.50' LT	1099.11	202957.54	177418.18
CR9-14	87+01.56	1.50' LT	1099.64	202957.39	177423.18
CR9-15	87+01.56	0.00'	1099.18	202955.89	177423.14
CR9-16	86+79.52	11.24' LT	1099.90	202967.80	177401.45
CR9-17	86+74.61	12.03' LT	1099.90	202968.74	177396.56
CR9-18	86+49.65	14.51' LT	1099.86	202971.86	177371.56
CR9-19	86+24.77	13.70' LT	1099.68	202971.47	177346.55
CR9-20	86+00.00	11.01' LT	1099.43	202969.01	177321.65
CR9-21	85+75.00	8.32' LT	1099.17	202966.42	177296.64
CR9-22	85+50.00	5.73' LT	1098.95	202963.94	177271.63
CR9-23	85+25.00	3.88' LT	1098.74	202962.20	177246.62
CR9-24	85+00.00	2.51' LT	1098.56	202960.94	177221.61
CR9-25	86+88.00	2.52' LT	1099.57	202958.83	177409.66
CR9-26	86+87.78	7.11' LT	1099.61	202963.42	177409.58
CR9-27	86+87.38	15.10' LT	1099.65	202971.41	177409.43

① CR10					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR10-1	86+84.99	37.31' RT	1098.32	202919.11	177405.43
CR10-2	86+86.19	35.11' RT	1098.85	202921.26	177406.70
CR10-3	86+87.94	36.08' RT	1098.34	202920.24	177408.42
CR10-4	86+90.24	32.98' RT	1098.42	202923.28	177410.82
CR10-5	86+90.12	30.50' RT	1098.47	202925.75	177410.77
CR10-6	86+88.12	30.50' RT	1098.89	202925.82	177408.77
CR10-7	86+88.12	28.00' RT	1098.54	202928.32	177408.85
CR10-8	87+00.11	28.00' RT	1098.61	202927.95	177420.83
CR10-9	87+00.11	30.61' RT	1099.00	202925.34	177420.75
CR10-10	86+98.11	30.50' RT	1098.52	202925.51	177418.76
CR10-11	86+98.38	35.44' RT	1098.42	202920.56	177418.87
CR10-12	86+94.91	40.12' RT	1098.31	202916.00	177415.26
CR10-13	86+96.63	41.15' RT	1098.69	202914.91	177416.94
CR10-14	86+95.33	43.28' RT	1098.27	202912.82	177415.58

① CR8					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR8-1	86+54.94	69.18' RT	1098.70	202888.07	177374.94
CR8-2	86+59.52	62.55' RT	1098.58	202894.59	177379.58
CR8-3	86+65.04	66.46' RT	1098.14	202890.54	177384.88
CR8-4	86+68.17	62.50' RT	1098.06	202894.42	177388.04
CR8-5	86+62.37	58.40' RT	1098.53	202898.67	177382.48
CR8-6	86+64.08	55.92' RT	1098.17	202901.11	177384.22
CR8-7	86+81.74	70.33' RT	1097.99	202886.20	177401.17
CR8-8	86+79.60	72.44' RT	1098.37	202884.16	177398.97
CR8-9	86+74.46	67.61' RT	1098.00	202889.14	177394.05
CR8-10	86+65.59	77.30' RT	1098.20	202879.69	177385.12
CR8-11	86+71.05	71.34' RT	1098.08	202885.51	177390.62
CR8-12	86+60.04	72.80' RT	1098.26	202884.33	177379.83

① EB LINE
② WB LINE
③ MB LINE

① CR12					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR12-1	92+50.00	25.00' LT	1101.83	202973.22	177971.66
CR12-2	92+75.00	25.00' LT	1101.91	202973.06	177996.65
CR12-3	92+88.05	25.00' LT	1101.96	202972.98	178009.70
CR12-4	93+00.00	24.98' LT	1101.99	202972.87	178021.65
CR12-5	93+00.00	25.96' LT	1102.01	202973.85	178021.66
CR12-6	93+25.00	25.00' LT	1102.02	202972.73	178046.65
CR12-7	93+25.00	27.96' LT	1102.04	202975.69	178046.67
CR12-8	93+50.00	25.00' LT	1102.06	202972.57	178071.65
CR12-9	93+50.00	29.95' LT	1102.04	202977.52	178071.69
CR12-10	93+75.00	25.00' LT	1102.09	202972.41	178096.65
CR12-11	93+75.00	31.95' LT	1102.02	202979.36	178096.70
CR12-12	93+91.00	25.00' LT	1102.09	202972.30	178112.65
CR12-13	93+91.00	33.23' LT	1102.00	202980.53	178112.71
CR12-14	94+00.00	25.00' LT	1101.98	202972.25	178121.60
CR12-15	94+00.00	33.94' LT	1101.98	202981.19	178121.65
CR12-16	94+16.00	25.00' LT	1101.78	202972.22	178137.47
CR12-17	94+16.00	33.86' LT	1101.96	202981.07	178137.46
CR12-18	94+25.00	25.00' LT	1101.77	202972.24	178146.40

① CR12					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR12-19	94+25.00	33.72' LT	1101.95	202980.96	178146.36
CR12-20	94+50.00	25.00' LT	1101.73	202972.43	178171.19
CR12-21	94+50.00	33.07' LT	1101.90	202980.50	178171.09
CR12-22	94+60.83	25.00' LT	1101.71	202972.58	178181.93
CR12-23	94+60.83	32.65' LT	1101.87	202980.23	178181.81
CR12-24	94+70.77	25.00' LT	1101.68	202972.75	178191.78
CR12-25	94+70.69	32.20' LT	1101.84	202979.95	178191.57
CR12-26	94+89.75	31.21' LT	1101.77	202979.38	178210.44
CR12-27	95+00.10	24.85' LT	1101.94	202973.29	178220.91
CR12-28	95+00.00	31.51' LT	1102.01	202979.94	178220.63
CR12-29	95+05.41	25.53' LT	1101.90	202974.11	178226.20
CR12-30	95+15.47	28.20' LT	1101.88	202977.05	178236.19
CR12-31	95+13.80	30.63' LT	1101.95	202979.44	178234.45
CR12-32	95+18.38	28.98' LT	1101.79	202977.90	178239.08
CR12-33	95+15.22	25.31' LT	1101.78	202974.16	178236.01
CR12-34	95+00.00	18.19' LT	1101.86	202966.62	178220.99
CR12-35	94+75.00	14.00' LT	1101.80	202961.84	178196.20
CR12-36	94+70.88	13.99' LT	1101.81	202961.75	178192.10

① CR12					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR12-37	94+60.83	15.00' LT	1101.86	202962.58	178182.08
CR12-38	94+50.00	15.00' LT	1101.88	202962.43	178171.31
CR12-39	94+25.00	15.00' LT	1101.92	202962.24	178146.43
CR12-40	94+16.00	15.00' LT	1101.93	202962.22	178137.48
CR12-41	94+00.00	15.00' LT	1101.94	202962.25	178121.56
CR12-42	93+91.00	15.00' LT	1101.94	202962.30	178112.59
CR12-43	93+75.00	15.00' LT	1101.94	202962.41	178096.59
CR12-44	93+50.00	15.00' LT	1101.91	202962.57	178071.59
CR12-45	93+25.00	15.00' LT	1101.86	202962.73	178046.59
CR12-46	93+00.00	15.00' LT	1101.79	202962.90	178021.59
CR12-47	92+88.05	15.00' LT	1101.76	202962.98	178009.64
CR12-48	92+75.00	15.00' LT	1101.71	202963.06	177996.59
CR12-49	92+50.00	15.00' LT	1101.63	202963.23	177971.59
CR12-50	94+73.37	25.00' LT	1101.67	202972.80	178194.36

① CR13					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR13-1	94+54.99	28.50' RT	1101.47	202919.00	178176.87
CR13-2	94+54.99	26.00' RT	1101.05	202921.50	178176.83
CR13-3	94+76.76	26.00' RT	1100.99	202921.88	178198.79
CR13-4	94+76.76	28.50' RT	1101.41	202919.38	178198.84
CR13-5	94+69.83	28.48' RT	1100.93	202919.26	178191.85
CR13-6	94+69.83	33.50' RT	1101.01	202914.24	178191.94
CR13-7	94+78.59	33.50' RT	1101.61	202914.42	178200.80
CR13-8	94+78.59	41.49' RT	1101.49	202906.43	178200.97
CR13-9	94+69.82	41.47' RT	1101.13	202906.28	178192.08
CR13-10	94+61.91	41.46' RT	1101.15	202906.15	178184.06
CR13-11	94+61.91	33.48' RT	1101.03	202914.12	178183.93
CR13-12	94+61.91	28.50' RT	1100.95	202919.10	178183.85

① CR14					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR14-1	95+42.63	33.50' RT	1101.34	202916.10	178264.99
CR14-2	95+58.61	33.50' RT	1100.27	202916.53	178280.96
CR14-3	95+62.85	33.50' RT	1100.29	202916.64	178285.20
CR14-4	95+63.57	32.41' RT	1100.44	202917.76	178285.90
CR14-5	95+61.51	28.51' RT	1101.03	202921.59	178283.73
CR14-6	95+65.56	33.94' RT	1100.38	202916.28	178287.92
CR14-7	95+63.98	32.72' RT	1100.30	202917.45	178286.31
CR14-8	95+59.84	45.23' RT	1100.18	202904.84	178282.51
CR14-9	95+57.49	44.39' RT	1100.40	202905.62	178280.13
CR14-10	95+58.61	41.50' RT	1100.15	202908.53	178281.18
CR14-11	95+42.63	41.50' RT	1101.22	202908.10	178265.21

① CR15					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR15-1	96+19.34	30.72' RT	1100.08	202920.76	178341.28
CR15-2	96+20.23	33.59' RT	1100.49	202917.91	178342.21
CR15-3	96+15.80	35.14' RT	1099.98	202916.29	178337.85
CR15-4	96+21.67	35.25' RT	1100.08	202916.27	178343.66
CR15-5	96+37.52	35.50' RT	1100.66	202916.23	178359.33
CR15-6	96+37.41	43.50' RT	1100.78	202908.23	178359.30
CR15-7	96+21.52	43.25' RT	1100.20	202908.27	178343.64
CR15-8	96+02.10	42.78' RT	1099.85	202908.38	178324.49
CR15-9	95+98.90	45.34' RT	1100.23	202905.75	178321.40
CR15-10	95+96.90	43.08' RT	1099.88	202907.96	178319.37

① EB LINE
② WB LINE
③ MB LINE

① CR16					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR16-1	99+59.55	60.03' RT	1097.47	202890.83	178680.77
CR16-2	99+57.70	61.70' RT	1097.89	202889.16	178678.91
CR16-3	99+52.21	56.27' RT	1097.54	202894.61	178673.45
CR16-4	99+49.11	60.20' RT	1097.61	202890.70	178670.32
CR16-5	99+44.14	66.49' RT	1097.73	202884.43	178665.33
CR16-6	99+38.26	61.80' RT	1097.85	202889.14	178659.47
CR16-7	99+30.53	57.26' RT	1098.55	202893.70	178651.75
CR16-8	99+34.01	50.07' RT	1098.43	202900.88	178655.27
CR16-9	99+42.83	55.24' RT	1097.70	202895.68	178664.07
CR16-10	99+45.99	51.34' RT	1097.63	202899.57	178667.23
CR16-11	99+39.38	47.22' RT	1098.20	202903.71	178660.65
CR16-12	99+40.59	45.03' RT	1097.78	202905.90	178661.86

① CR17					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR17-1	99+62.04	33.37' RT	1098.06	202917.48	178683.35
CR17-2	99+65.49	29.00' RT	1098.07	202921.84	178686.82
CR17-3	99+75.34	29.00' RT	1098.08	202921.80	178696.66
CR17-4	99+75.28	34.00' RT	1097.99	202916.80	178696.59
CR17-5	99+67.91	34.00' RT	1097.99	202916.83	178689.22
CR17-6	99+66.67	35.57' RT	1097.99	202915.26	178687.97

① EB LINE
② WB LINE
③ MB LINE

① CR18					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR18-1	100+28.34	29.00' RT	1097.93	202921.61	178749.67
CR18-2	100+35.98	29.00' RT	1097.95	202921.58	178757.31
CR18-3	100+35.91	23.00' RT	1098.04	202927.58	178757.26
CR18-4	100+40.91	23.00' RT	1098.03	202927.56	178762.26
CR18-5	100+40.98	29.00' RT	1097.90	202921.56	178762.31
CR18-6	100+43.95	29.00' RT	1097.88	202921.55	178765.28
CR18-7	100+47.22	29.27' RT	1097.85	202921.27	178768.55
CR18-8	100+46.02	34.19' RT	1097.71	202916.36	178767.33
CR18-9	100+43.75	34.00' RT	1097.76	202916.55	178765.06
CR18-10	100+28.28	34.00' RT	1097.83	202916.61	178749.59

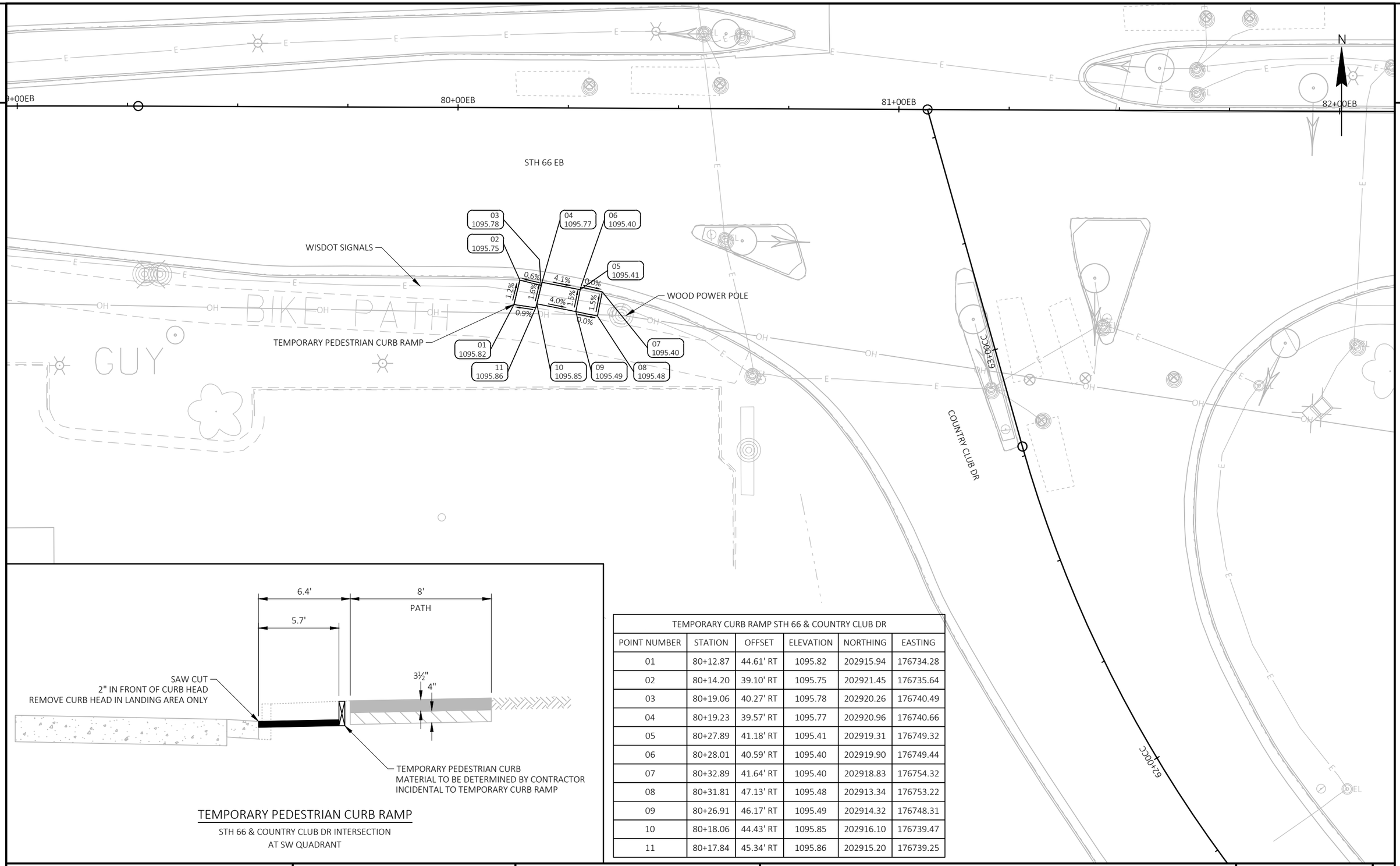
① CR19					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR19-1	100+85.15	32.38' RT	1097.62	202918.03	178806.47
CR19-2	100+89.97	32.77' RT	1097.58	202917.61	178811.28
CR19-3	100+97.96	33.26' RT	1098.15	202917.10	178819.28
CR19-4	100+98.06	37.91' RT	1098.20	202912.44	178819.36
CR19-5	100+89.56	37.76' RT	1097.50	202912.63	178810.86
CR19-6	100+77.00	36.73' RT	1097.31	202913.71	178798.30

② CR20					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR20-1	100+33.49	0.00'	1098.57	202978.59	178754.85
CR20-2	100+33.49	1.50' RT	1099.03	202977.09	178754.84
CR20-3	100+35.49	1.50' RT	1098.53	202977.08	178756.84
CR20-4	100+35.52	6.50' RT	1098.59	202972.09	178756.85
CR20-5	100+33.51	6.50' RT	1099.08	202972.09	178754.84
CR20-6	100+33.51	8.00' RT	1098.63	202970.59	178754.84
CR20-7	100+42.51	8.00' RT	1098.66	202970.56	178763.84
CR20-8	100+42.51	6.50' RT	1099.12	202972.06	178763.84
CR20-9	100+40.51	6.50' RT	1098.62	202972.07	178761.84
CR20-10	100+40.49	1.50' RT	1098.52	202977.07	178761.84
CR20-11	100+42.49	1.50' RT	1099.01	202977.06	178763.84
CR20-12	100+42.49	0.00'	1098.55	202978.56	178763.85

② CR21					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR21-1	100+31.55	38.42' LT	1097.66	203017.01	178753.04
CR21-2	100+31.43	39.91' LT	1098.12	203018.51	178752.93
CR21-3	100+33.43	40.07' LT	1097.61	203018.66	178754.92
CR21-4	100+33.16	45.74' LT	1097.52	203024.33	178754.68
CR21-5	100+35.29	48.38' LT	1097.48	203026.97	178756.82
CR21-6	100+33.59	49.43' LT	1097.98	203028.02	178755.12
CR21-7	100+34.37	50.71' LT	1097.46	203029.29	178755.91
CR21-8	100+42.08	45.98' LT	1097.49	203024.54	178763.60
CR21-9	100+41.29	44.70' LT	1098.01	203023.26	178762.81
CR21-10	100+39.59	45.74' LT	1097.50	203024.31	178761.11
CR21-11	100+38.24	44.08' LT	1097.54	203022.65	178759.75
CR21-12	100+38.41	40.46' LT	1097.60	203019.03	178759.91
CR21-13	100+40.41	40.61' LT	1098.08	203019.18	178761.91
CR21-14	100+40.52	39.12' LT	1097.62	203017.68	178762.02

② CR22					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR22-1	100+59.27	57.64' LT	1097.19	203036.14	178780.83
CR22-2	100+60.53	59.79' LT	1097.61	203038.29	178782.10
CR22-3	100+63.57	64.97' LT	1097.70	203043.45	178785.16
CR22-4	100+54.29	63.95' LT	1097.12	203042.46	178775.87
CR22-5	100+58.06	68.62' LT	1097.22	203047.12	178779.66
CR22-6	100+50.40	67.09' LT	1097.04	203045.62	178771.99
CR22-7	100+54.17	71.76' LT	1097.14	203050.27	178775.78
CR22-8	100+43.18	70.63' LT	1097.07	203049.18	178764.79
CR22-9	100+45.02	72.32' LT	1097.49	203050.87	178766.63
CR22-10	100+49.44	76.38' LT	1097.58	203054.91	178771.07
CR22-11	100+50.74	63.54' LT	1097.13	203042.06	178772.32

③ CR23					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
CR23-1	23+71.89	22.00' RT	1096.78	203102.95	178746.55
CR23-2	23+71.89	29.50' RT	1096.83	203102.88	178754.05
CR23-3	23+71.89	34.50' RT	1096.86	203102.83	178759.05
CR23-4	23+66.06	34.55' RT	1096.90	203097.00	178759.04
CR23-5	23+66.02	29.50' RT	1096.83	203097.01	178753.99
CR23-6	23+65.98	24.50' RT	1096.75	203097.01	178748.99
CR23-7	23+63.08	24.53' RT	1097.25	203094.12	178748.99
CR23-8	23+62.98	22.06' RT	1096.83	203094.04	178746.53
CR23-9	23+65.98	22.00' RT	1096.83	203097.03	178746.49



TEMPORARY PEDESTRIAN CURB RAMP

STH 66 & COUNTRY CLUB DR INTERSECTION
AT SW QUADRANT

TEMPORARY CURB RAMP STH 66 & COUNTRY CLUB DR

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	80+12.87	44.61' RT	1095.82	202915.94	176734.28
02	80+14.20	39.10' RT	1095.75	202921.45	176735.64
03	80+19.06	40.27' RT	1095.78	202920.26	176740.49
04	80+19.23	39.57' RT	1095.77	202920.96	176740.66
05	80+27.89	41.18' RT	1095.41	202919.31	176749.32
06	80+28.01	40.59' RT	1095.40	202919.90	176749.44
07	80+32.89	41.64' RT	1095.40	202918.83	176754.32
08	80+31.81	47.13' RT	1095.48	202913.34	176753.22
09	80+26.91	46.17' RT	1095.49	202914.32	176748.31
10	80+18.06	44.43' RT	1095.85	202916.10	176739.47
11	80+17.84	45.34' RT	1095.86	202915.20	176739.25

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TEMPORARY CURB RAMP - STH 66 & COUNTRY CLUB DR INTERSECTION	SHEET 57	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021206-PD.DWG
LAYOUT NAME - 01
PLOT DATE : 11/30/2020 7:56 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

NOTE: DO NOT INSTALL CAMERA CCTV-49-0013 CONDUCTORS IN TRAFFIC SIGNAL CONDUITS

N

REMOVE EXISTING PULL BOX

PROPOSED TRAFFIC SIGNAL PULL BOX

ABANDON EXISTING CONDUIT
REMOVE EXISTING CONDUCTORS (3)

EXISTING PULL BOX
EPB1003

EXISTING 50-FT
CAMERA CCTV-49-0013

REMOVE AND REINSTALL EXISTING CONDUCTORS (3)
INSTALL EXISTING CONDUIT (2) INTO PB1002

PULL BOX 24"X42" NON CONDUCTIVE
PB1002

IH 39 NB OFF RAMP

IH 39 NB ON RAMP

28+00

30928+00

28427+00

28324+00

37'

RAMP GATE

ABANDON EXISTING CONDUIT
REMOVE EXISTING CONDUCTORS (3)

STH 66 WB

USH 10 WB

92+00 93+00 94+00 95+00 96+00 97+00 98+00

31028+00

USH 10 EB/STH 66 EB

USH 10 EB

EPB1

WISDOT SIGNALS

PROPOSED TRAFFIC SIGNAL CONDUIT

PROPOSED TRAFFIC SIGNAL PULL BOX

CONDUIT SPECIAL 2-INCH (2)
REINSTALL EXISTING CONDUCTORS (3)

REMOVE EXISTING PULL BOX

ABANDON EXISTING CONDUIT
REMOVE EXISTING CONDUCTORS (3)

IH 39 NB/USH 51 NB

GUY

GUYS

OVERHEAD LINES
WISCONSIN PUBLIC SERVICE
CHARTER COMMUNICATIONS
WINDSTREAM KDL

EXISTING METER BREAKER PEDESTAL TO REMAIN
EMB1001

EXISTING PULL BOX TO REMAIN
EPB1001
INSTALL CONDUIT (2) INTO EXISTING PULL BOX

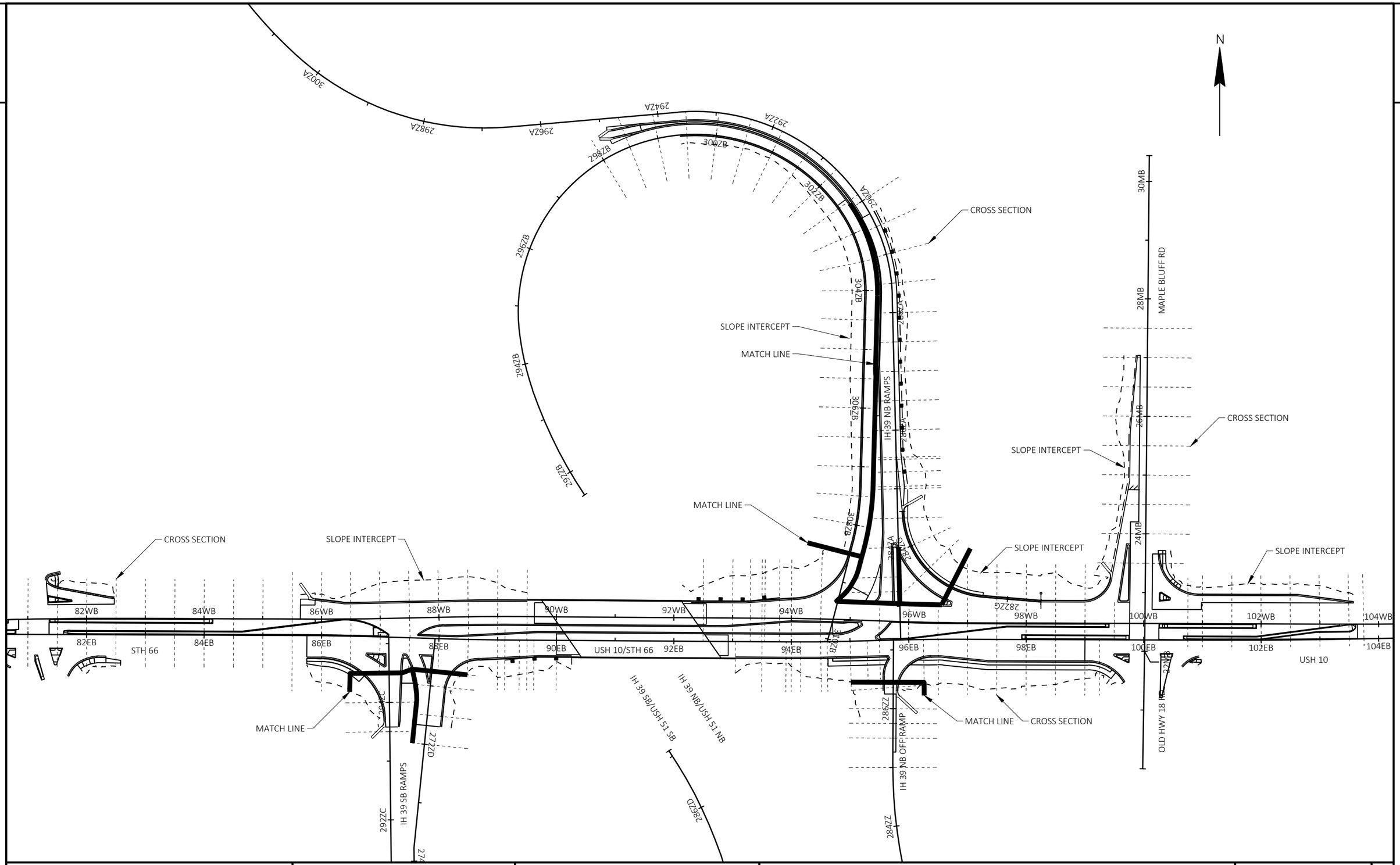
AT&T WISCONSIN

IH 39 NB OFF RAMP

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	ITS PLAN - CCTV-49-0013	SHEET 58	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\021501-FM.DWG
LAYOUT NAME - 01

PLOT DATE : 3/16/2021 6:45 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT


N
CROSS SECTION
SLOPE INTERCEPT
MATCH LINE
IH 39 NB RAMPS
MAPLE BLUFF RD
30MB
28MB
26MB
24MB
22MB
SLOPE INTERCEPT
CROSS SECTION
MATCH LINE
SLOPE INTERCEPT
CROSS SECTION
SLOPE INTERCEPT
SLOPE INTERCEPT
82WB
84WB
86WB
88WB
90WB
92WB
94WB
96WB
98WB
100WB
102WB
104WB
82EB
STH 66
84EB
86EB
88EB
90EB
USH 10/STH 66
92EB
94EB
96EB
98EB
100EB
102EB
104EB
USH 10
MATCH LINE
CROSS SECTION
IH 39 SB RAMPS
IH 39 SB/USH 51 SB
IH 39 NB/USH 51 NB
IH 39 NB OFF RAMP
OLD HWY 18 RP
2942A
2962A
2982A
3002A
2922A
2902A
2962B
2982B
3002B
3022B
3042B
3062B
3082B
2942B
2922B
2902B
2882B
2862B
2842B
2822B
2802B
2782B
2762B
2742B
2722B
2702B
2682B
2662B
2642B
2622B
2602B
2582B
2562B
2542B
2522B
2502B
2482B
2462B
2442B
2422B
2402B
2382B
2362B
2342B
2322B
2302B
2282B
2262B
2242B
2222B
2202B
2182B
2162B
2142B
2122B
2102B
2082B
2062B
2042B
2022B
2002B
1982B
1962B
1942B
1922B
1902B
1882B
1862B
1842B
1822B
1802B
1782B
1762B
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1202B
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1162B
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1102B
1082B
1062B
1042B
1022B
1002B
982B
962B
942B
922B
902B
882B
862B
842B
822B
802B
782B
762B
742B
722B
702B
682B
662B
642B
622B
602B
582B
562B
542B
522B
502B
482B
462B
442B
422B
402B
382B
362B
342B
322B
302B
282B
262B
242B
222B
202B
182B
162B
142B
122B
102B
082B
062B
042B
022B

2

N

CONCRETE DITCH

ASPHALTIC SURFACE TEMPORARY

IH 39 NB OFF RAMP

IH 39 NB ON RAMP

284+00ZA
285+00ZA
286+00ZA
287+00ZA
288+00ZA
289+00ZA
290+00ZA
291+00ZA
292+00ZA
293+00ZA
294+00
300+00ZB
300+00ZBT
301+00ZB
301+00ZBT
302+00ZB
302+00ZBT
303+00ZB
303+00ZBT
304+00ZB
304+00ZBT
305+00ZB
305+00ZBT
306+00ZB
306+00ZBT
307+00ZB
307+00ZBT
308+00ZB
308+00ZBT

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	EROSION CONTROL - STAGE 1	SHEET 60	E

2

2

N

PLE

SLOPE INTERCEPT

RW

STH 66 WB

77+00WB

78+00WB

79+00WB

80+00WB

81+00WB

82+00WB

83+00WB

84+00WB

77+00EB

78+00EB

79+00EB

80+00EB

81+00EB

82+00EB

83+00EB

84+00EB

STH 66 EB

RW

PLE

BIKE PATH

GUY

GUY POLE

GUY POLE

COUNTRY CLUB DR

62+00CC

62+00CC

LEGEND

EROSION MAT CLASS I, TYPE B

EROSION MAT URBAN CLASS I, TYPE B

SILT FENCE

EROSION BALE, BARRIER

INLET PROTECTION, TYPE (X)

TEMPORARY DITCH CHECK

CULVERT PIPE DITCH CHECK

SURFACE WATER FLOW

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	EROSION CONTROL	SHEET 61	E

FILE NAME : Z:\PDS\C3D\11660605\SHEETSPLAN\022002-EC.DWG
LAYOUT NAME - 01

PLOT DATE : 6/15/2021 3:35 PM PLOT BY : KRUEGER, MARIAH R PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

RW

ASPHALTIC FLUME

IH 39 SB/USH 51 SB

IH 39 NB/USH 51 NB

STH 66 WB

84+00WB 85+00WB 86+00WB 87+00WB 88+00WB 89+00WB 90+00WB 91+00WB

84+00EB 85+00EB 86+00EB 87+00EB 88+00EB 89+00EB 90+00EB 91+00EB

USH 10 EB/STH 66 EB

THROUGH STAGE 3

SLOPE INTERCEPT

295+00ZC

294+00ZC

293+00ZC

292+00ZC

271+00ZD

272+00ZD

273+00ZD

IH 39 SB ON RAMP

IH 39 SB OFF RAMP

ASPHALTIC FLUME

GUY

GUYS

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- INLET PROTECTION, TYPE (X)
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	EROSION CONTROL	SHEET 62	E

FILE NAME : Z:\PDS\C3D\11660605\SHEETSPLAN\022002-EC.DWG
LAYOUT NAME - 02

PLOT DATE : 6/15/2021 3:36 PM PLOT BY : KRUEGER, MARIAH R PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

STH 66 WB

92+00WB 93+00WB 94+00WB 95+00WB 96+00WB 97+00WB 98+00WB 99+00WB

USH 10 WB

92+00EB 93+00EB 94+00EB 95+00EB 96+00EB 97+00EB 98+00EB 99+00EB

USH 10 EB/STH 66 EB

USH 10 EB

IH 39 NB OFF RAMP

IH 39 NB ON RAMP

309+00ZB

310+00ZB

283+00ZA

284+00ZB

283+00ZG

282+00ZG

287+00ZZ

286+00ZZ

285+00ZZ

287+00ZD

THROUGH STAGE 3

ASPHALTIC FLUME

GUY

GUYS

SS

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- INLET PROTECTION, TYPE (X)
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	EROSION CONTROL	SHEET 63	E

2

2

ASPHALTIC FLUME

MAPLE BLUFF RD

24+00MB

23+00MB

22+00MB

21+00MB

OLD HWY 18 RD

SLOPE INTERCEPT

USH 10 WB

USH 10 EB

99+00WB

100+00WB

101+00WB

102+00WB

103+00WB

104+00WB

105+00WB

106+00WB

99+00EB

100+00EB

101+00EB

102+00EB

103+00EB

104+00EB

105+00EB

106+00EB

RW

RW

SS

GUY

GUYS

W

N

LEGEND

EROSION MAT CLASS I, TYPE B

EROSION MAT URBAN CLASS I, TYPE B

SILT FENCE

EROSION BALE, BARRIER

INLET PROTECTION, TYPE (X)

TEMPORARY DITCH CHECK

CULVERT PIPE DITCH CHECK

SURFACE WATER FLOW

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	EROSION CONTROL	SHEET 64	E

FILE NAME : Z:\PDS\C3D\11660605\SHEETSPLAN\022002-EC.DWG
LAYOUT NAME - 04

PLOT DATE : 6/15/2021 3:36 PM

PLOT BY : KRUEGER, MARIAH R

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

2

2

N

RW

SLOPE INTERCEPT

SS

C

B

USH 10 WB

106+00WB

107+00WB

106+00EB

107+00EB

108+00EB

109+00EB

110+00EB

111+00EB

112+00EB

113+00EB

USH 10 EB

GUY

GUY POLE

W

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- INLET PROTECTION, TYPE (X)
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	EROSION CONTROL	SHEET 65	E

FILE NAME : Z:\PDS\C3D\11660605\SHEETSPLAN\022002-EC.DWG
LAYOUT NAME - 05

PLOT DATE : 6/15/2021 3:37 PM PLOT BY : KRUEGER, MARIAH R PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

299+00ZA
298+00ZA
297+00ZA
296+00ZA
295+00ZA
294+00ZA
293+00ZA
292+00ZA

IH 39 NB ON RAMP

ASPHALTIC FLUME

IH 39 NB OFF RAMP

299+00ZB
298+00ZB
297+00ZB
296+00ZB
295+00ZB
300+00ZB
301+00ZB

C

LEGEND

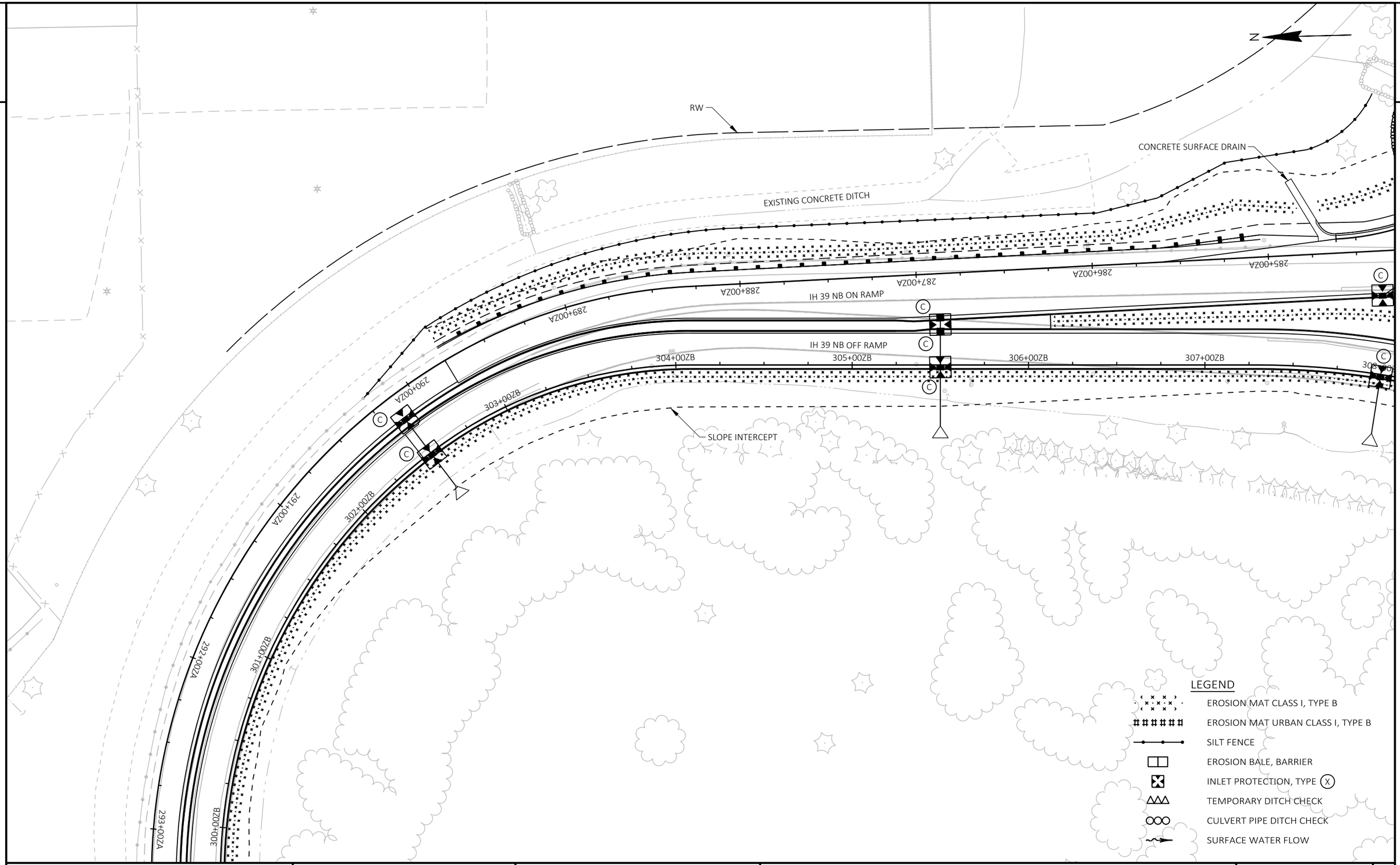
- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- INLET PROTECTION, TYPE (X)
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	EROSION CONTROL	SHEET 66	E

FILE NAME : Z:\PDS\C3D\11660605\SHEETSPLAN\022002-EC.DWG
LAYOUT NAME - 06

PLOT DATE : 6/15/2021 3:37 PM PLOT BY : KRUEGER, MARIAH R PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	EROSION CONTROL	SHEET 67	E

2

2

N

RIP RAP HEAVY
13'X20'
SEE CONSTRUCTION DETAILS

SLOPE INTERCEPT

RW

23+00MB 24+00MB 25+00MB 26+00MB 27+00MB 28+00MB 29+00MB 30+00MB

MAPLE BLUFF RD

POST

POST

POST

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- INLET PROTECTION, TYPE (X)
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	EROSION CONTROL	SHEET 68	E

FILE NAME : Z:\PDS\C3D\11660605\SHEETSPLAN\022002-EC.DWG
LAYOUT NAME - 08

PLOT DATE : 6/15/2021 3:38 PM PLOT BY : KRUEGER, MARIAH R PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

AT&T WISCONSIN

STREET LIGHTING

1.3 STA 78+25, 2.3' L
INLETS 3-Z

1.1 STA 79+83, 0.7' L
INLETS 3-Z

1.2 STA 79+83, 16.1' L
INLETS 3-Z

STA 81+43, 55.2' L
INLETS 3-Z 2.2

2.1 STA 81+60, 51.4' L
INLETS 4-H

2.3 STA 81+57, 53.1' L
MANHOLES 3-J

2.4 STA 81+55, 0.7' R
INLETS 3-Z

2.5 STA 81+54, 20.7' L
INLETS 3-Z

2.6 STA 81+68, 21.0' R
INLETS 3-Z

2.7 STA 81+69, 25.5' R
INLETS 4-H

2.8 STA 82+28, 3.6' L
MANHOLES 3-J

E2.9 STA 82+28, 37.8' R
EXISTING INLETS 2-A

WISDOT SIGNALS

AT&T WISCONSIN

N

STH 66 WB

STH 66 EB

78+00 79+00 80+00 81+00 82+00 83+00 84+00

BIKE PATH

COUNTRY CLUB DR

STREET LIGHTING

WISDOT SIGNALS

RECONSTRUCT INLET

E1.4 1.3 1.3 1.2 1.1 2.8 E2.9 2.6 2.5 2.7 2.4 2.3 2.1 2.2 2.3

1095 1090 1088

CONCRETE COLLARS FOR PIPE

1095.02 1092.09 1091.39 1091.54 1090.18

SSPRC CLASS IV 12-INCH @ 2.00%

SSPRC CLASS IV 12-INCH @ 2.00%

1095.02 1091.54 1095.60 1095.76 1092.75 1092.60 1092.60

SSPRC CLASS IV 12-INCH @ 0.66%

SSPRC CLASS IV 12-INCH @ 1.00%

1088.26 1096.19 1097.19 1091.93 1090.04

SSPRC CLASS III 12-INCH @ 1.79%

SSPRC CLASS III 12-INCH @ 4.56%

SSPRC CLASS III 12-INCH @ 0.50%

1096.62 1096.62 1096.52 1096.60 1096.22 1095.64 1092.22 1092.38 1092.51 1092.64 1092.35 1092.25

SSPRC CLASS IV 12-INCH @ 0.50%

SSPRC CLASS III 12-INCH @ 0.50%

SSPRC CLASS III 12-INCH @ 0.50%

1096.08 1096.22 1092.58 1092.51

SSPRC CLASS IV 12-INCH @ 0.50%

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	STORM SEWER	SHEET 69	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 01
PLOT DATE : 6/17/2021 7:07 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

2

2

N

AT&T WISCONSIN

3.2 STA 84+25, 46.4' L
APRON ENDWALLS FOR CPRC 12-INCH

4.2 STA 86+50, 52.3' L
APRON ENDWALLS FOR CPRC 12-INCH

4.1 STA 86+50, 27.5' L
INLETS 2x3-H

STA 87+76, 55.9' L
APRON ENDWALLS FOR CPRC 12-INCH 6.2

WISDOT SIGNALS

REMOVING STORM SEWER

REMOVING INLETS

STA 87+71, 7.0' L
INLETS 2x2.5-BW 6.1

3.1 STA 84+25, 22.0' R
INLETS 3-Z

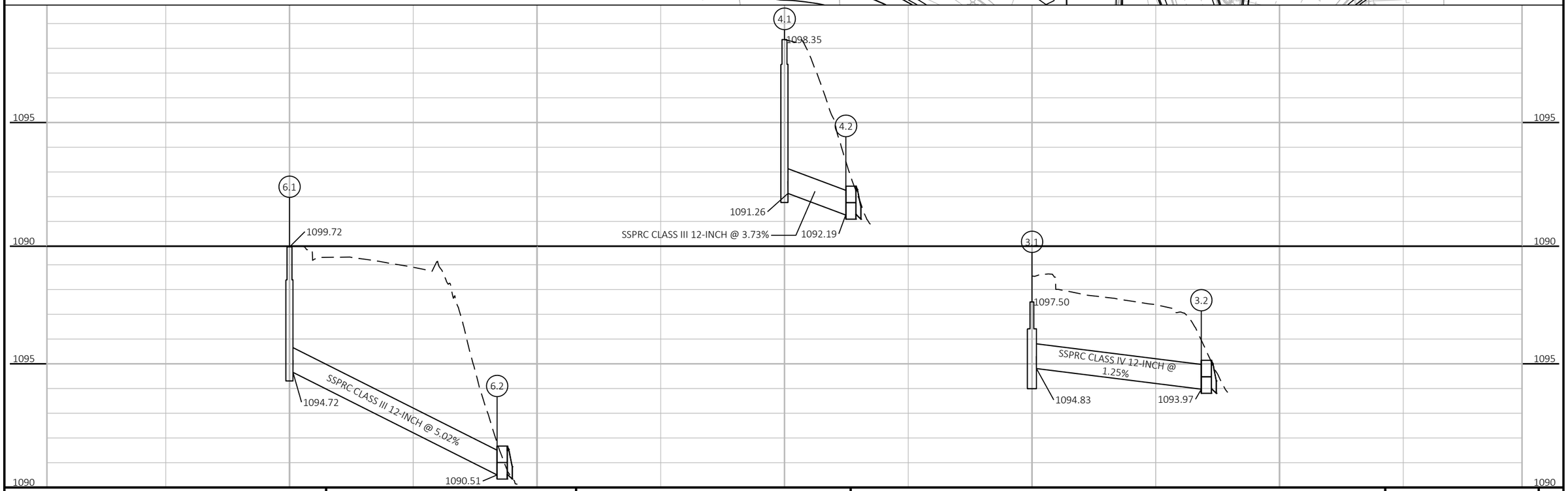
STH 66 WB

STH 66 EB

USH 10 EB/STH 66 EB

83+00 84+00 85+00 86+00 87+00 88+00 89+00

295+00Z



PROJECT NO: 1166-06-75/6290-09-71	HWY: USH 10/STH 66	COUNTY: PORTAGE	STORM SEWER	SHEET 70	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 02
PLOT DATE : 6/17/2021 7:08 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

2

N

AT&T WISCONSIN

7.1 STA 89+40, 27.5' L
INLETS 4-H

7.2 STA 89+15, 117.4' L
APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH

REMOVING STORM SEWER
REMOVE TO BEND & CAP REMAINING PIPE

IH 39 SB/USH 51 SB

IH 39 NB/USH 51 NB

USH 10 EB/STH 66 EB

STH 66 WB

90+00

89+68

7.1

1100.01

PIPE UNDERDRAIN UNPERFORATED 12-INCH @ 2.00%

30° BEND

1097.12

1096.94

PIPE UNDERDRAIN UNPERFORATED 12-INCH @ 29.81%

1100

1095

1090

1085

PIPE UNDERDRAIN UNPERFORATED 12-INCH @ 29.81%

7.2

30° BEND

PIPE UNDERDRAIN UNPERFORATED 12-INCH @ 2.00%

1073.58

1073.47

1100

1085

1080

1075

1070

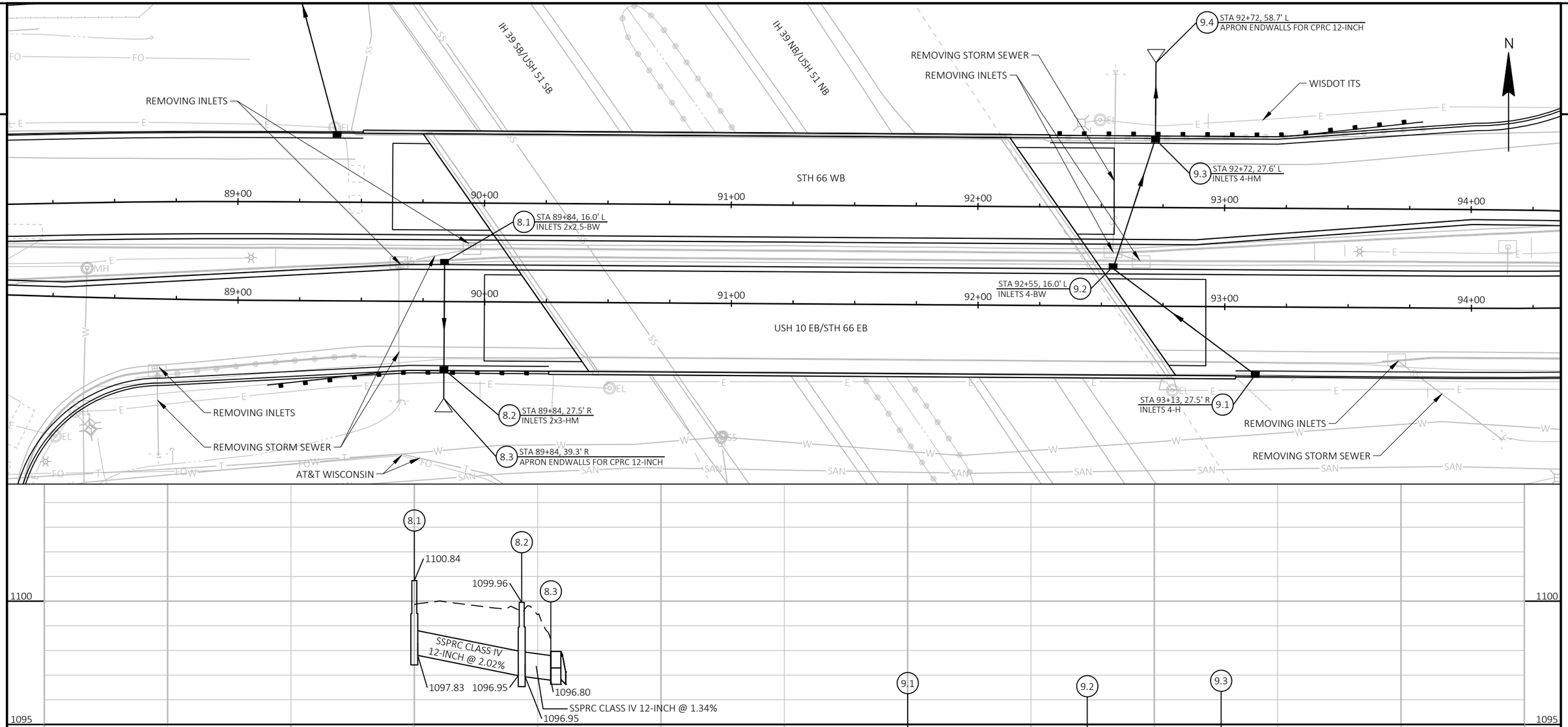
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	STORM SEWER	SHEET 71	E

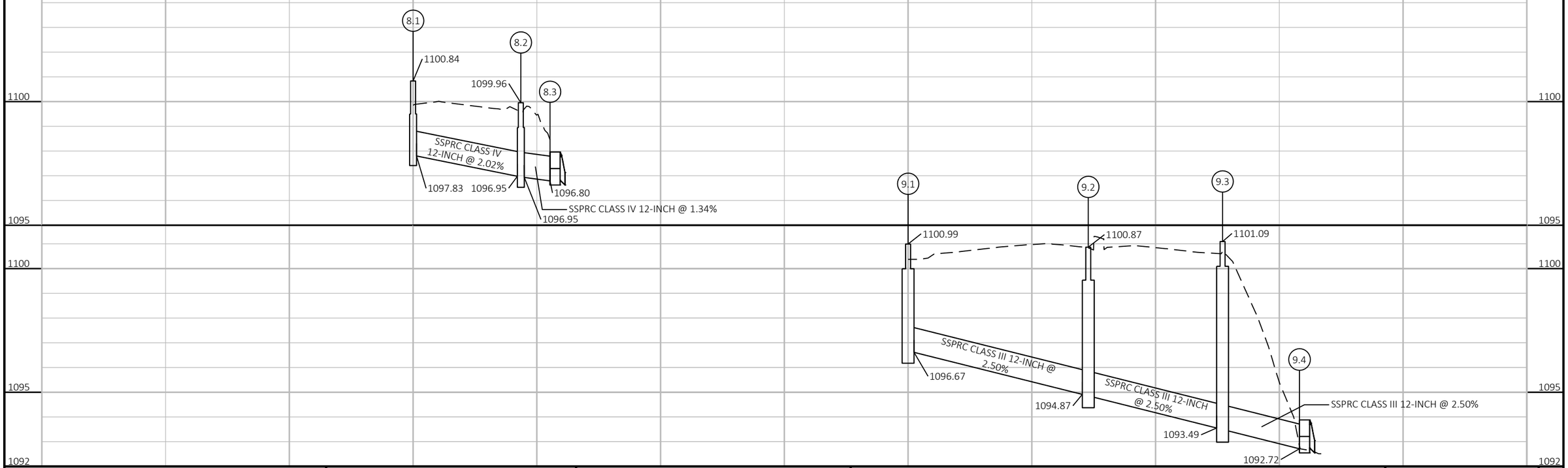
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 03

PLOT DATE : 6/17/2021 7:31 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

2





PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	STORM SEWER	SHEET 72	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 04
PLOT DATE : 6/17/2021 7:08 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

2

REMOVING INLETS

309+00ZB

IH 39 NB OFF RAMP

IH 39 NB ON RAMP

283+00ZA

283+00ZG

282+00ZG

STH 66 WB

10.1 STA 94+73, 26.0' L
INLETS 2x2.5-BW

10.2 STA 95+68, 3.1' R
INLETS 4-H

USH 10 WB

12.4 STA 97+86, 58.1' L
APRON ENDWALLS FOR CPRC 12-INCH

12.3 STA 97+84, 41.3' L
INLETS 2x3-HM

12.2 STA 97+84, 0.8' R
INLETS 3-Z

12.1 STA 97+84, 21.7' L
INLETS 3-Z

N

93+00 94+00 95+00 96+00 97+00 98+00 99+00

STREET LIGHTS

310+00ZB

USH 10 EB/STH 66 EB

STA 95+58, 27.5' R
INLETS 4-H 10.3

287+00ZZ

USH 10 EB

13.1 STA 97+89, 37.5' R
INLETS 2x3-H

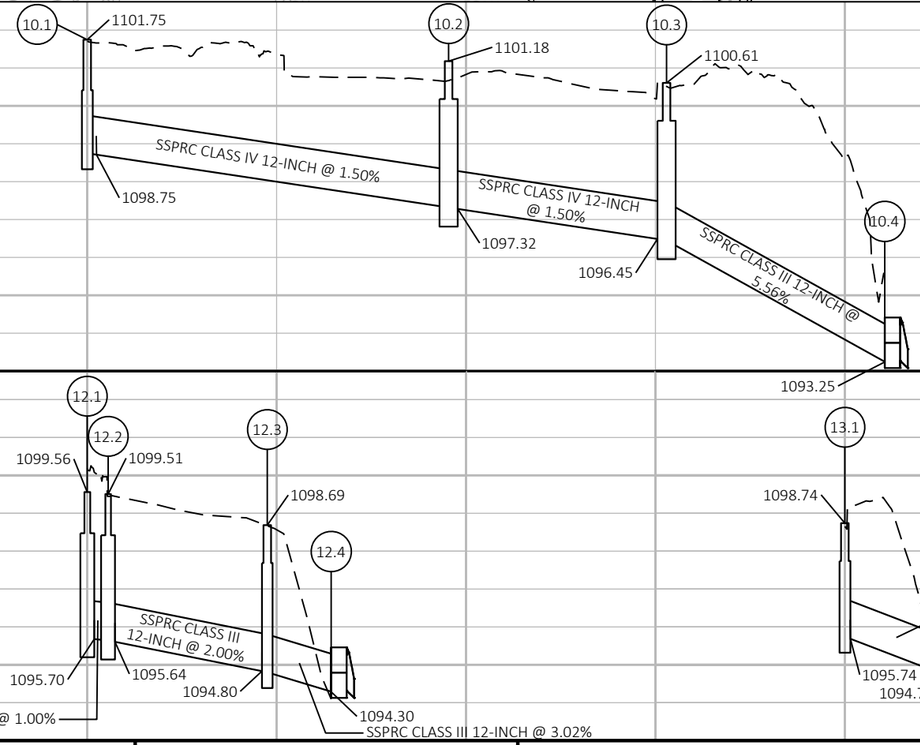
REMOVING STORM SEWER

REMOVING INLETS

13.2 STA 97+89, 64.7' R
APRON ENDWALLS FOR CPRC 12-INCH

STA 95+23, 72.9' R
APRON ENDWALLS FOR CPRC 12-INCH 10.4

IH 39 NB OFF RAMP



PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	STORM SEWER	SHEET 73	E

2

N

309+00ZB

IH 39 NB OFF RAMP

284+00ZA

284+00ZG

IH 39 NB ON RAMP

11.2 STA 283+37, 42.6' R
APRON ENDWALLS FOR CPRC 12-INCH

283+00ZG

REMOVING SMALL
PIPE CULVERTS

282+00ZG

283+00ZA

11.1 STA 96+62, 29.5' L
INLETS 4-H

STH 66 WB

USH 10 WB

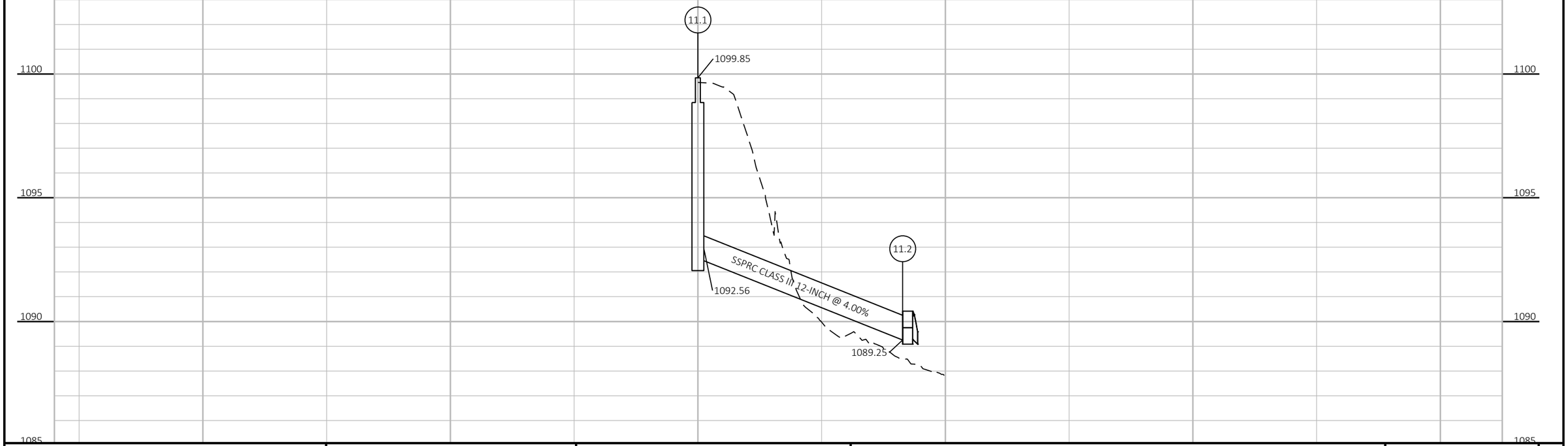
94+00 95+00 96+00 97+00 98+00 99+00

STREET LIGHTS

310+00ZB

94+00 95+00 96+00 97+00 98+00 99+00

USH 10 EB



PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	STORM SEWER	SHEET 74	E

2

N

MAPLE BLUFF RD

15.1 STA 23+50, 24.9' R
INLETS 4-H

PIPE CONNECTION TO EXISTING STORM SEWER
FIELD VERIFY EXISTING PIPE LOCATION AND ELEVATION

WISDOT SIGNALS

STREET LIGHTING

STA 98+67, 64.7' L
APRON ENDWALLS FOR CPRC 12-INCH 14.5

STA 98+89, 37.5' L
INLETS 4-HM 14.4

14.3 STA 99+35, 1.3' R
INLETS 3-Z

23+00MB

USH 10 WB

STA 101+84, 0.7' R
INLETS 3-Z 16.3

98+00 99+00 100+00 101+00 102+00 103+00 104+00

STA 99+35, 21.7' L
INLETS 3-Z 14.2

STA 101+71, 21.7' R
INLETS 3-Z 16.1

16.2 STA 101+85, 21.7' R
INLETS 3-Z

98+00 99+00 100+00 101+00 102+00 103+00 104+00

STA 99+58, 0.7' L
INLETS 3-Z 14.1

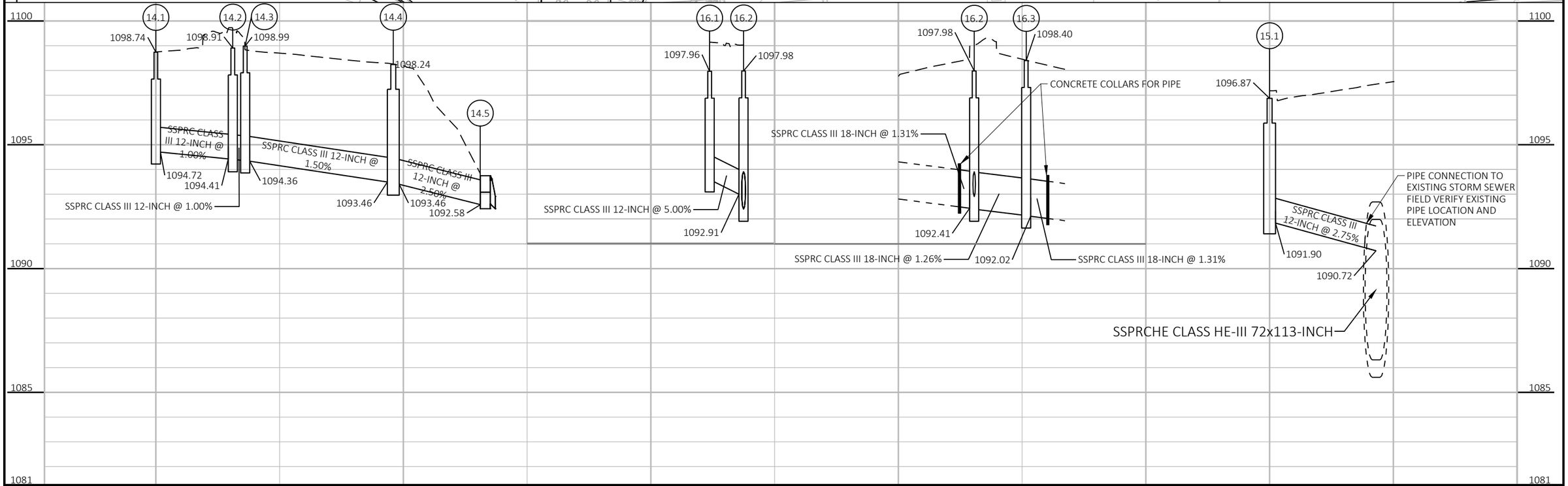
USH 10 EB

ADJUSTING INLET COVERS

STREET LIGHTING

OLD HWY 18 RD

22+00MB



PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	STORM SEWER	SHEET 75	E

2

N

MAPLE BLUFF RD

INLET CONNECTION TO EXISTING STORM SEWER
FIELD VERIFY EXISTING PIPE LOCATION AND ELEVATION
SEE CONSTRUCTION DETAILS

REMOVING INLETS
SEE CONSTRUCTION DETAILS

REMOVING STORM SEWER

INLET CONNECTION TO EXISTING STORM SEWER
FIELD VERIFY EXISTING PIPE LOCATION AND ELEVATION
SEE CONSTRUCTION DETAILS

STA 101+85, 77.2' L
INLETS 2x3-H
17.1

18.1
STA 102+04, 49.5' L
INLETS 2x3-H

STREET LIGHTING

WISDOT SIGNALS

REMOVING INLETS

2-INCH

23+00MB

USH 10 WB

99+00 100+00 101+00 102+00 103+00 104+00

99+00 100+00 101+00 102+00 103+00 104+00

USH 10 EB

AT&T WISCONSIN

1100
1095
1090
1085

17.1
18.1

1097.27
1097.21

INLET CONNECTION TO EXISTING STORM SEWER
FIELD VERIFY EXISTING PIPE LOCATION AND ELEVATION
SEE CONSTRUCTION DETAILS

SSPRCHE CLASS HE-III 72X113-INCH @ 0.15%

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	STORM SEWER	SHEET 76	E

2

(A) INLET CONNECTION TO EXISTING STORM SEWER
FIELD VERIFY EXISTING PIPE LOCATION AND ELEVATION
SEE CONSTRUCTION DETIALS

N

STA 108+93, 55.8' L
EXISTING MANHOLE VARIABLE TEE 4-FT DIAMETER
EMH-1

22.1 STA 108+93, 57.1' L
RECONSTRUCT MANHOLE - TYPE H COVER

20.1 STA 107+64, 57.1' L
INLETS 2x3-H

21.1 STA 107+83, 57.1' L
INLETS 2x3-H

23.1 STA 109+14, 57.1' L
INLETS 2x3-H

24.1 STA 110+34, 57.1' L
INLETS 2x3-H

19.1 STA 106+83, 57.4' L
INLETS 2x3-H

REMOVING INLETS
SEE CONSTRUCTION DETAILS

REMOVING INLETS

REMOVING INLETS
SEE CONSTRUCTION DETAILS

REMOVING INLETS

REMOVING INLETS
SEE CONSTRUCTION DETAILS

AT&T WISCONSIN

REMOVING STORM SEWER

REMOVING STORM SEWER

USH 10 WB

USH 10 EB

107+00

107+00

108+00

109+00

110+00

111+00

112+00

WISCONSIN PUBLIC SERVICE

AT&T WISCONSIN

1100

1095

1090

1086

19.1
1097.23

20.1
1097.43

21.1
1097.51

22.1
1097.81

23.1
1097.90

24.1
1098.27

INLET CONNECTION TO EXISTING STORM SEWER
FIELD VERIFY EXISTING PIPE LOCATION AND ELEVATION
SEE CONSTRUCTION DETAILS

SSPRCHE CLASS HE-III 72X113-INCH @ 0.14%

INLET CONNECTION TO EXISTING STORM SEWER
FIELD VERIFY EXISTING PIPE LOCATION AND ELEVATION
SEE CONSTRUCTION DETAILS

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	STORM SEWER	SHEET 77	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 08

PLOT DATE : 6/17/2021 7:10 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

2

26.2 STA 308+00, 33.8' R
APRON ENDWALLS FOR CPRC 12-INCH

26.1 STA 308+00, 1.5' R
INLETS 2x3-H

REMOVING STORM SEWER

REMOVING INLETS

308+00ZB

307+00ZB

27.4 STA 305+50, 34.6' R
APRON ENDWALLS FOR CPRC 12-INCH

27.3 STA 305+50, 1.5' R
INLETS 2x3-H

27.2 STA 305+50, 19.5' L
INLETS 2x3-H

27.1 STA 305+50, 26.3' L
INLETS 2x3-H

REMOVING STORM SEWER

REMOVING INLETS

306+00ZB

IH 39 NB OFF RAMP

305+00ZB

N

STA 302+50, 23.4' R
APRON ENDWALLS FOR CPRC 12-INCH 28.3

STA 302+50, 1.5' R
INLETS 2x3-H 28.2

STA 302+50, 23.5' L
INLETS 2x3-H 28.1

REMOVING INLETS

REMOVING STORM SEWER

304+00ZB

303+00ZB

290+00ZA

25.1 STA 284+36, 25.5' L
INLETS 4-H

IH 39 NB ON RAMP

289+00ZA

285+00ZA

286+00ZA

287+00ZA

288+00ZA

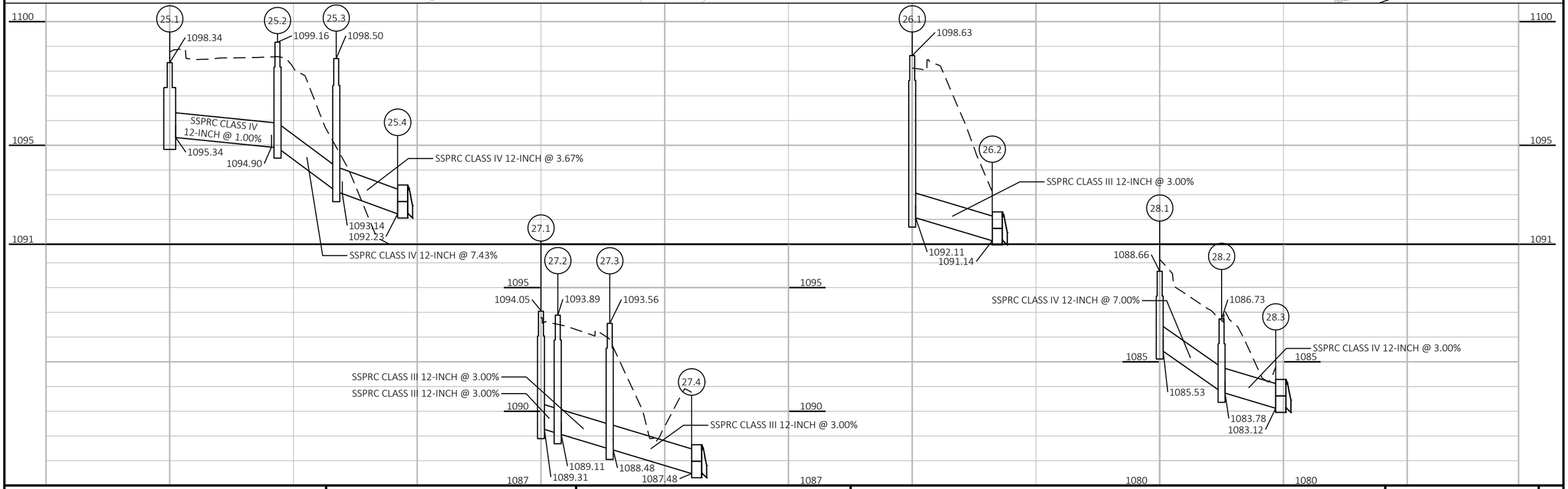
284+00ZA

284+00ZG

25.2 STA 283+99, 2.5' L
INLETS 2x3-HM

25.3 STA 284+06, 1.7' R
INLETS 2x2.5-T

25.4 STA 284+06, 26.5' R
APRON ENDWALLS FOR CPRC 12-INCH



PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	STORM SEWER	SHEET 78	E

2

N

29.1 STA 299+50, 23.5' L
INLETS 2x3-H

296+00ZA
295+00ZA
IH 39 NB ON RAMP
294+00ZA
293+00ZA
292+00ZA
291+00ZA
IH 39 NB OFF RAMP
299+00ZB
300+00ZB
301+00ZB
302+00ZB
298+00ZB
297+00ZB

REMOVING INLETS
REMOVING STORM SEWER

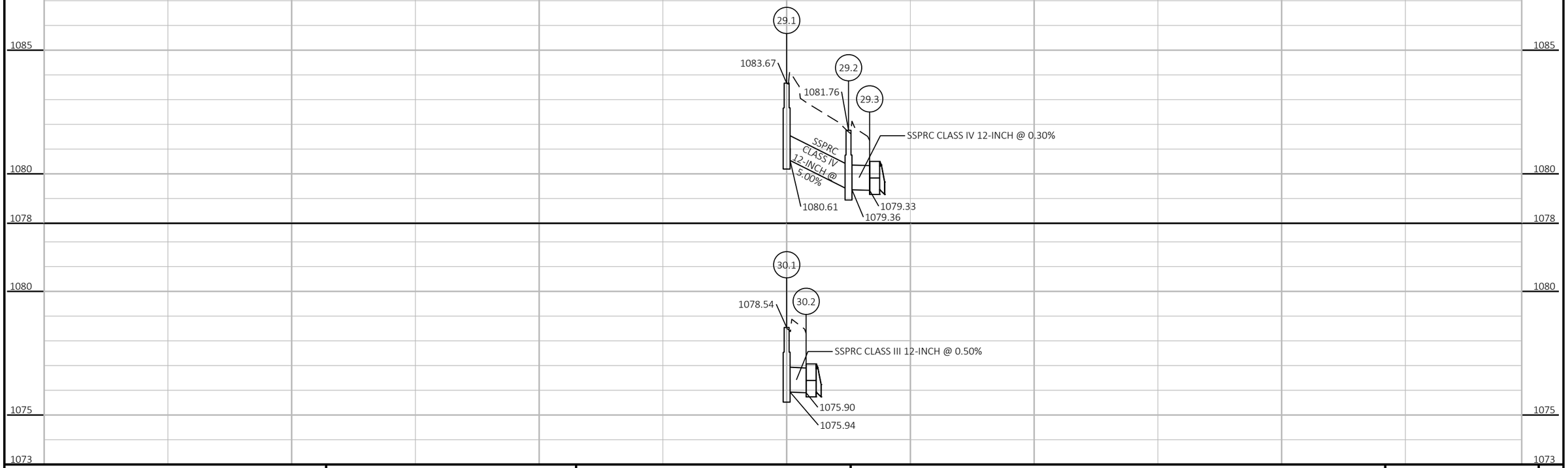
29.2 STA 299+50, 1.5' R
INLETS 2x3-H

29.3 STA 299+50, 10.1' R
APRON ENDWALLS FOR CPRC 12-INCH

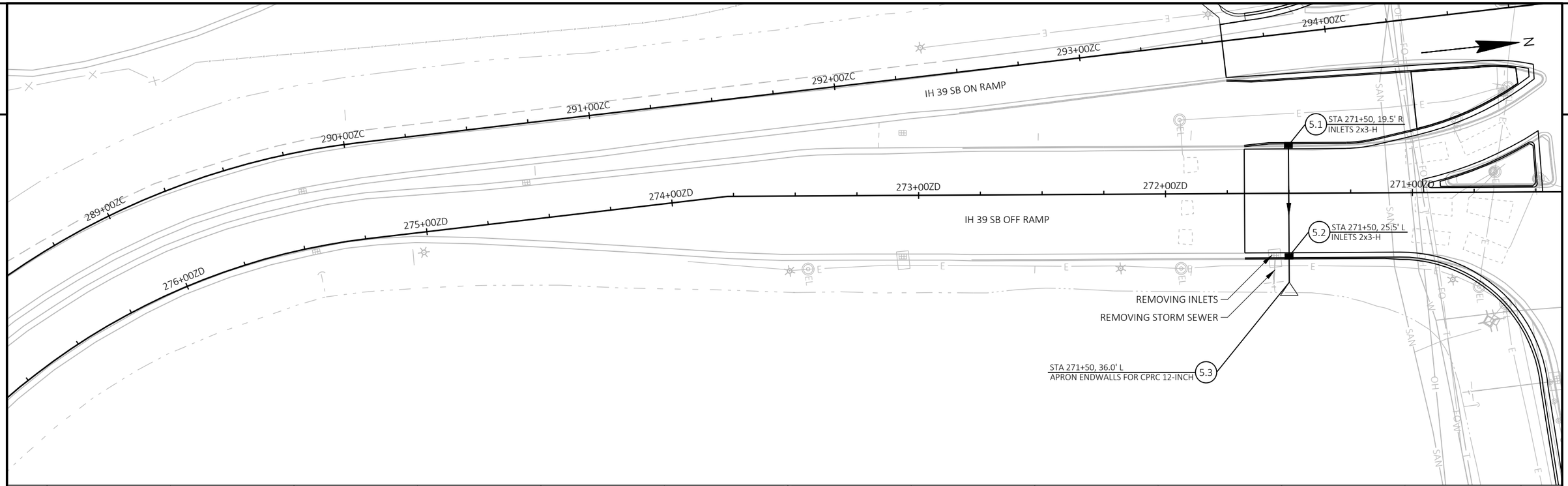
STA 297+50, 1.2' R
INLETS 2x3-H 30.1

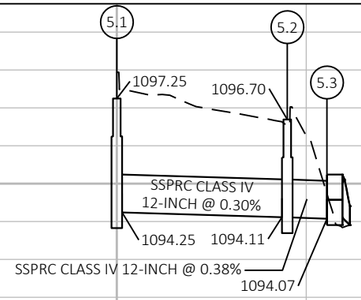
REMOVING INLETS
REMOVING STORM SEWER

30.2 STA 297+50, 9.0' R
APRON ENDWALLS FOR CPRC 12-INCH



PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	STORM SEWER	SHEET 79	E





PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	STORM SEWER	SHEET 80	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 11

PLOT DATE : 6/17/2021 7:11 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

2

1 SIGN BANDED TO SIGNAL OR STREET LIGHT POLE

2 REMOVE AND REINSTALL EXISTING SIGN AT EXISTING LOCATION

● PROPOSED SIGNAL POLE

N

1-01 1-02 STOP R1-1F 36"X36"

1-03 R4-7 24"X30"

1-04 STOP REMOVE REMOVE

1-05 STOP R1-1F 36"X36"

STOP REMOVE

1-06 YIELD R1-2 48"X42"

1-07 STOP R1-1F 36"X36"

1-08 STOP REMOVE

1-09 STOP R1-1F 36"X36"

1-10 REMOVE STOP REMOVE

NO PARKING ANY TIME TO REMAIN

STH 66 WB

78+00WB 79+00WB 80+00WB 81+00WB 82+00WB 83+00WB 84+00WB

78+00EB 79+00EB 80+00EB 81+00EB 82+00EB 83+00EB 84+00EB

STH 66 EB

STH 66 EB

1-11 BEGIN LEFT TURN LANE R3-20L 24"X36"

RIGHT LANE MUST TURN RIGHT TO REMAIN

1-12 W12-1D 24"X24"

1-13 2 MOVE

1-14 STOP R1-1F 36"X36"

STOP REMOVE

YIELD TO REMAIN

1-15 R4-7 24"X30" REMOVE

1-16 STOP R1-1F 36"X36" STOP REMOVE

BIKE PATH

63+00CC

62+00CC

COUNTRY CLUB DRIVE

1-17 2 MOVE

1-18 2 MOVE

1-19 1 DIVIDED HIGHWAY R6-3 30"X24"

1-20 1 STOP R1-1F 36"X36"

1-21 STOP R1-1F 36"X36"

1-22 R4-7 24"X30"

1-23 STOP R1-1F 36"X36"

STOP REMOVE

SOUTH AUSTIN 39 SOUTH 51 TO REMAIN

NO PARKING ANY TIME

2

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	PERMANENT SIGNING	SHEET 81	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 01

PLOT DATE : 3/16/2021 7:03 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

① SIGN BANDED TO SIGNAL OR STREET LIGHT POLE

② REMOVE AND REINSTALL EXISTING SIGN AT EXISTING LOCATION

● PROPOSED SIGNAL POLE

N

2-01 BEGIN LEFT TURN LANE R3-20LL 24"X36"

2-02 Country Club Dr D1-1 108"X15"

2-03 WEST 66 MOVE

2-04 H MOVE

NO PARKING ANY TIME TO REMAIN

2-05 Country Club Dr To Hoover Ave REMOVE

2-06 ② NO PARKING ANY TIME MOVE

2-07 BEGIN LEFT TURN LANE R3-20L 24"X36"

2-08 SOUTH MB3-3 24"X12"; 39 M1-1 24"X24"; 51 M1-4 24"X24"; MB6-1 21"X21"

2-09 ① R4-7 24"X30"; ① R3-4 24"X24"

2-10

2-11 SOUTH 39 SOUTH 51 REMOVE

2-12 M3-4 24"X12"; M1-6 24"X24"; M6-1 21"X21" REMOVE

2-13

2-14 STOP REMOVE

2-15 WEST 66 REMOVE

2-16 SOUTH 39 SOUTH 51 Madison D1-70 72"X42"

2-17 SOUTH 39 SOUTH 51 WEST 66 REMOVE

2-18 STOP R1-1F 36"X36" ①

2-19 STOP REMOVE

2-20 STOP R1-1F 36"X36" ①

2-21 RAMP CLOSED USE ALT ROUTE R11-54F 48"X30" MOUNT ONTO BARRIER WALL

2-22 Wis Rapids; Portage REMOVE

2-35 2-36 DO NOT ENTER REMOVE

STH 66 WB

84+00WB 85+00WB 86+00WB 87+00WB 88+00WB 89+00WB 90+00WB

STH 66 EB

84+00EB 85+00EB 86+00EB 87+00EB 88+00EB 89+00EB 90+00EB

USH 10 EB/STH 66 EB

2-26 2-27 ① STOP R1-1F 36"X36"

295+00ZC

294+00ZC

271+00ZD

IH 39 SB ON RAMP

IH 39 SB OFF RAMP

2-24 NORTH 39 NORTH 51 Wausau; SOUTH 39 SOUTH 51 Madison D1-71 72"X84"

Amherst Waupaca Portage REMOVE 2-23

NO PARKING ANY TIME TO REMAIN

2-25 SOUTH 39 SOUTH 51 REMOVE

2-28 W12-1D 24"X24"

① YIELD R1-2 48"X42" 2-29

2-30 REMOVE

2-31 REMOVE

2-32 STOP REMOVE

2-33 REMOVE; R4-7 24"X30"

2-34 RAMP CLOSED USE ALT ROUTE REMOVE

2-40 STOP REMOVE

STOP REMOVE

STOP R1-1F 36"X36" 2-41

2-42 DO NOT ENTER R5-1 36"X36"

2-43 BEGIN LEFT TURN LANE R3-20L 24"X36" MOUNT ONTO BARRIER WALL

① DIVIDED HIGHWAY R6-3A 30"X24" 2-39

① STOP R1-1F 36"X36" 2-38

REMOVE; 2-37 W12-1D 24"X24"

WEST 66 EAST 10 TO REMAIN

NORTH 39 WEST 10 NORTH 51 EAST 66 REMOVE

2-44 NORTH 39 WEST 10 NORTH 51 EAST 66 J3-4 96"X57"

PROJECT NO: 1166-06-75/6290-09-71	HWY: USH 10/STH 66	COUNTY: PORTAGE	PERMANENT SIGNING	SHEET 82	E

2

① SIGN BANDED TO SIGNAL OR STREET LIGHT POLE

② REMOVE AND REINSTALL EXISTING SIGN AT EXISTING LOCATION

● PROPOSED SIGNAL POLE

2

N

STH 66 WB

USH 10 WB

USH 10 EB/STH 66 EB

USH 10 EB

IH 39 NB OFF RAMP

IH 39 NB ON RAMP

93+00WB

94+00WB

95+00WB

96+00WB

97+00WB

98+00WB

93+00EB

94+00EB

95+00EB

96+00EB

97+00EB

98+00EB

310+00ZA

309+00ZA

308+00ZA

287+00ZZ

286+00ZZ

284+00ZA

283+00ZA

S-49-29

3-01 MOVE — SPEED LIMIT 40 / NO PARKING ANY TIME

3-02 REMOVE — SOUTH INTERSTATE 39 / SOUTH 51

3-02 MB3-3 24"X12"; M1-1 24"X24"; M1-4 24"X24"; MB5-1L 21"X21" — SOUTH INTERSTATE 39 / 51

3-03 ① R6-2R 30"X36" — ONE WAY

3-04 MOUNT ONTO BARRIER WALL — WEST 66; M3-4 24"X12"; M1-6 24"X24"; M6-1 21"X21"

3-05 ① R10-11B 24"X24" — NO TURN ON RED

3-06 REMOVE — ONE WAY

3-07 REMOVE — WEST 66

3-08 REMOVE — STOP

3-09 R10-11B 24"X24" — NO TURN ON RED

3-10 3-11 ① R1-1F 36"X36" — STOP

3-12 REMOVE

3-39 R3-20L 24"X36" — BEGIN LEFT TURN LANE

3-13 SOUTH INTERSTATE 39 / SOUTH 51 — Madison; NORTH INTERSTATE 39 / WEST 10 / NORTH 51 / EAST 66 — Wausau Marshfield

3-17 NORTH INTERSTATE 39 / WEST 10 / NORTH 51 / EAST 66 — ONLY — R3-5R

D15-1 144"X90"

3-14 REMOVE — YIELD

D1-71 120"X90"

3-48 ① R1-1F 36"X36" — STOP

3-15 MOVE — RAMP CLOSED USE ALT ROUTE

3-16 W12-1D 24"X24"

3-18 REMOVE — WEST 66

3-19 REMOVE — Wis Rapids / Wausau Marshfield

3-01 REMOVE

3-20 ② MOVE — NO PARKING ANY TIME

3-21 3-22 REMOVE

3-23 REMOVE — Marshfield / Wausau

3-24 3-25 ① R1-1F 36"X36" — STOP

3-26 D1-70 120"X48" SIZE 2 — NORTH INTERSTATE 39 / WEST 10 / NORTH 51 / EAST 66 — Wausau Marshfield

3-27 3-28 REMOVE — NORTH INTERSTATE 39 / WEST 10 / NORTH 51 / EAST 66

3-29 ① R4-7 24"X30"; ① R3-4 24"X24" — 3-30

3-31 J3-4 96"X57" — NORTH INTERSTATE 39 / WEST 10 / NORTH 51 / EAST 66

3-32 3-33 REMOVE

3-34 R3-2 24"X24"

3-35 3-36 ① R1-1F 36"X36" — STOP

3-40 REMOVE

3-37 NO TURN ON RED R10-11B 24"X24"

3-38 REMOVE — STOP

3-41 REMOVE — EAST 10

3-42 ① R10-11B 24"X24" — NO TURN ON RED

3-43 EAST 10; M3-2 24"X12"; M1-4 24"X24"; M6-1 21"X21"

3-44 ① R6-2R 30"X36" — ONE WAY

3-45 R3-18 30"X30"

3-46 ① R1-1F 36"X36" — STOP

3-47 D1-52 108"X24" — Vehicle Registration Driver Licensing

REMOVE — Vehicle Registration Driver Licensing

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PERMANENT SIGNING	SHEET 83	E

1. SIGN BANDED TO SIGNAL OR STREET LIGHT POLE
2. REMOVE AND REINSTALL EXISTING SIGN AT EXISTING LOCATION

● PROPOSED SIGNAL POLE

N

MAPLE BLUFF RD

OLD HWY 18 RD

24+00MB

23+00MB

22+00MB

21+00MB

USH 10 WB

USH 10 EB

98+00WB 99+00WB 100+00WB 101+00WB 102+00WB 103+00WB 104+00WB

98+00EB 99+00EB 100+00EB 101+00EB 102+00EB 103+00EB 104+00EB

4-01 J3-4 96"X57" — NORTH WEST NORTH EAST / AHEAD 39 10 51 66 — REMOVE

SEE PREVIOUS PAGE

4-02 STOP — REMOVE

4-03 STOP R1-1F 36"X36" (1)

4-04 DIVIDED HIGHWAY — REMOVE

4-05 4-06 DIVIDED HIGHWAY R6-3 30"X24" (1); STOP R1-1F 36"X36" (1)

4-07 4-08 W12-1D 24"X24" — REMOVE

4-09 YIELD — REMOVE

4-10 YIELD R1-2 48"X42" (1)

4-11 STOP R1-1F 36"X36" (1); W12-1D 24"X24" (1)

4-12

4-13 — REMOVE

4-14 4-15 STOP R1-1F 36"X36" (1)

4-16 Vehicle Registration Driver Licensing D1-52 108"X24"

4-17 Vehicle Registration Driver Licensing — REMOVE

4-18 BEGIN LEFT TURN LANE R3-20L 24"X36"

4-19 BEGIN RIGHT TURN LANE R3-20R 24"X36"

4-20 NORTH NORTH EAST / AHEAD 39 51 66 / SECOND RIGHT SECOND RIGHT SECOND RIGHT — REMOVE

4-21 WRONG WAY — MOVE (2)

4-22 DO NOT ENTER — MOVE (2)

4-23 STOP — REMOVE

4-24 4-25 STOP R1-1F 36"X36" (1)

4-26 — MOVE (2)

4-27 STOP R1-1F 36"X36" (1)

4-28 YIELD R1-2 48"X42" (1)

4-29 YIELD — REMOVE

4-30 4-31 R4-7 24"X30" (1)

4-32 — REMOVE; W12-1D 24"X24"

4-33 DIVIDED HIGHWAY — REMOVE

4-34 STOP R1-1F 36"X36" (1)

4-35 DIVIDED HIGHWAY R6-3 30"X24" (1); STOP R1-1F 36"X36" (1)

4-36 STOP R1-1F 36"X36" (1)

4-37 STOP — REMOVE

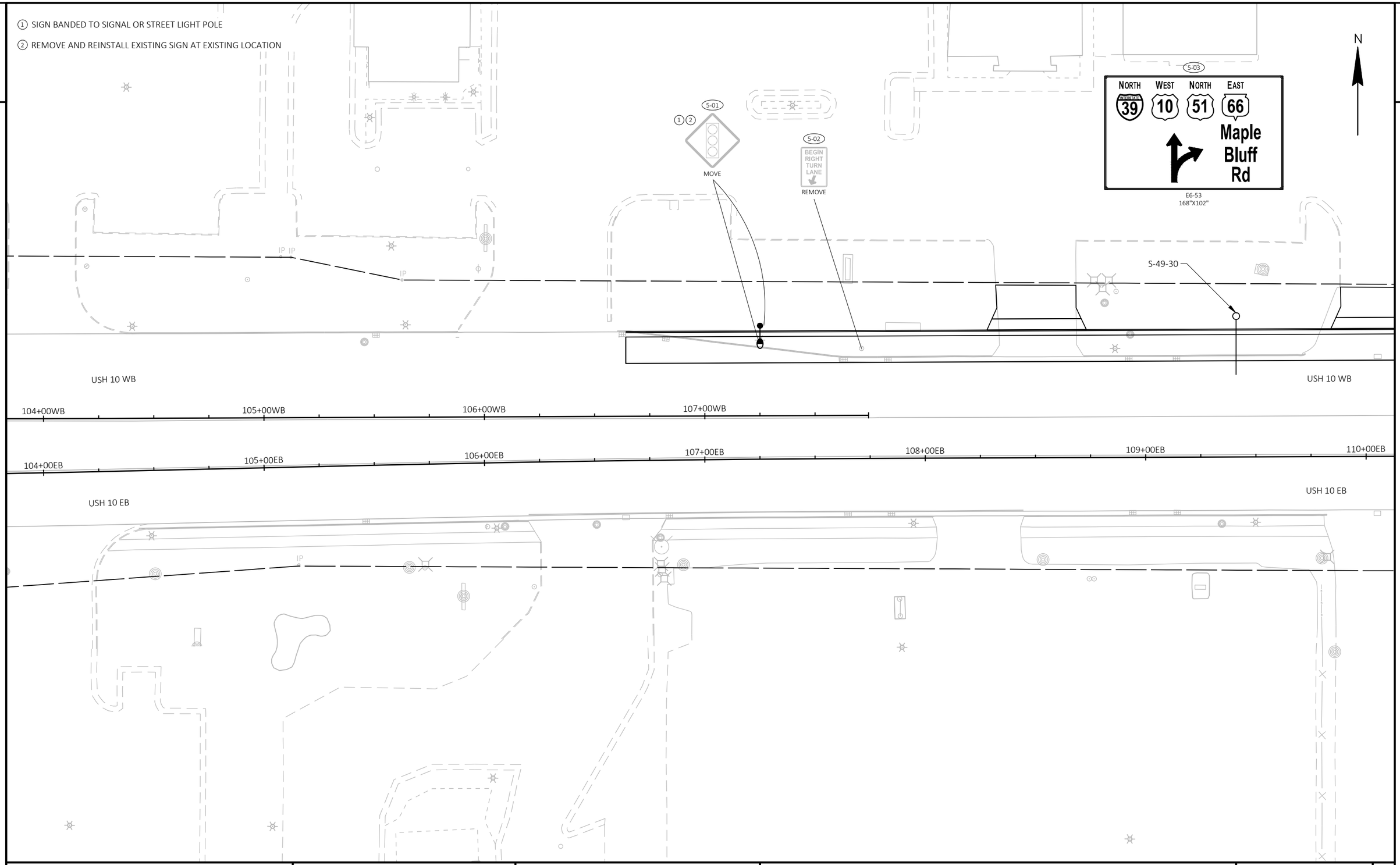
4-38 STOP — REMOVE

4-39 EAST 10 M3-2 24"X12" M1-4 24"X24"

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PERMANENT SIGNING	SHEET 84	E

① SIGN BANDED TO SIGNAL OR STREET LIGHT POLE

② REMOVE AND REINSTALL EXISTING SIGN AT EXISTING LOCATION



2

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PERMANENT SIGNING	SHEET 85	E

2

① REMOVE AND REINSTALL EXISTING SIGN AT EXISTING LOCATION

N

① 6-01
SPEED LIMIT 40
MOVE

6-02
JCT JCT JCT
WISCONSIN 39 51 66
REMOVE

6-03
JCT JCT JCT
WISCONSIN 39 10 66
J1-3
72"X39"

USH 10 WB

USH 10 WB

110+00EB 111+00EB 112+00EB 113+00EB 114+00EB 115+00EB 116+00EB

USH 10 EB

USH 10 EB

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PERMANENT SIGNING	SHEET 86	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 06

PLOT DATE : 3/16/2021 7:04 AM PLOT BY : GRULING, ZACHARY P PLOT NAME :

WISDOT/CADDS SHEET 42

2

N

7-01
WRONG WAY
MOVE

7-02
UW Stevens Point
MOVE

SIS SIGN
MOVED BY OTHERS
SEE SPECIAL PROVISIONS

308+00ZB
307+00ZB
306+00ZB
305+00ZB
304+00ZB
303+00ZB
302+00ZB
290+00ZA
289+00ZA
288+00ZA
287+00ZA
286+00ZA
285+00ZA
284+00ZA

IH 39 NB OFF RAMP

IH 39 NB ON RAMP

7-06
LEFT LANE ENDS
W9-1L
36"X36"

7-05
W4-2L
36"X36"

7-04
PEDESTRIANS
BICYCLES
NON MOTORIZED TRAFFIC
MOTOR BICYCLES
PROHIBITED
MOVE

7-03
MOVE

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PERMANENT SIGNING	SHEET 87	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 07
PLOT DATE : 3/16/2021 7:04 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
WISDOT/CADDS SHEET 42

2

N

302+00ZB

291+00ZA

301+00ZB

REMOVE

8-01

W3-3
36"X36"

296+00ZB

297+00ZB

298+00ZB

300+00ZB

299+00ZB

292+00ZA

IH 39 NB OFF RAMP

293+00ZA

IH 39 NB ON RAMP

294+00ZA

295+00ZA

296+00ZA

297+00ZA

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PERMANENT SIGNING	SHEET 88	E

2

2

N

IH 39 SB/USH 51 SB

IH 39 NB/USH 51 NB

IH 39 NB OFF RAMP TO USH 10 EB

280+00ZZ

281+00ZZ

282+00ZZ

283+00ZZ

284+00ZZ

285+00ZZ

286+00ZZ

REMOVE

9-01

W3-3
36"X36"

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PERMANENT SIGNING	SHEET 89	E

2

STH 66 EB

STH 66 WB

99+00EB

99+00WB

10-01
BEGIN RIGHT TURN LANE
R3-20R
24"X36"

10-02
ONLY
R3-8
36"X30"

10-03
REMOVE

10-04
Old Hwy 18
Brilowski Trail
Heartland Trail
MOVED BY OTHERS

MAPLE BLUFF RD

22+00MB

23+00MB

24+00MB

25+00MB

26+00MB

27+00MB

28+00MB

100+00EB

100+00WB

101+00EB

101+00WB

USH 10 EB

USH 10 WB

OST

N

2

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PERMANENT SIGNING	SHEET 90	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 10

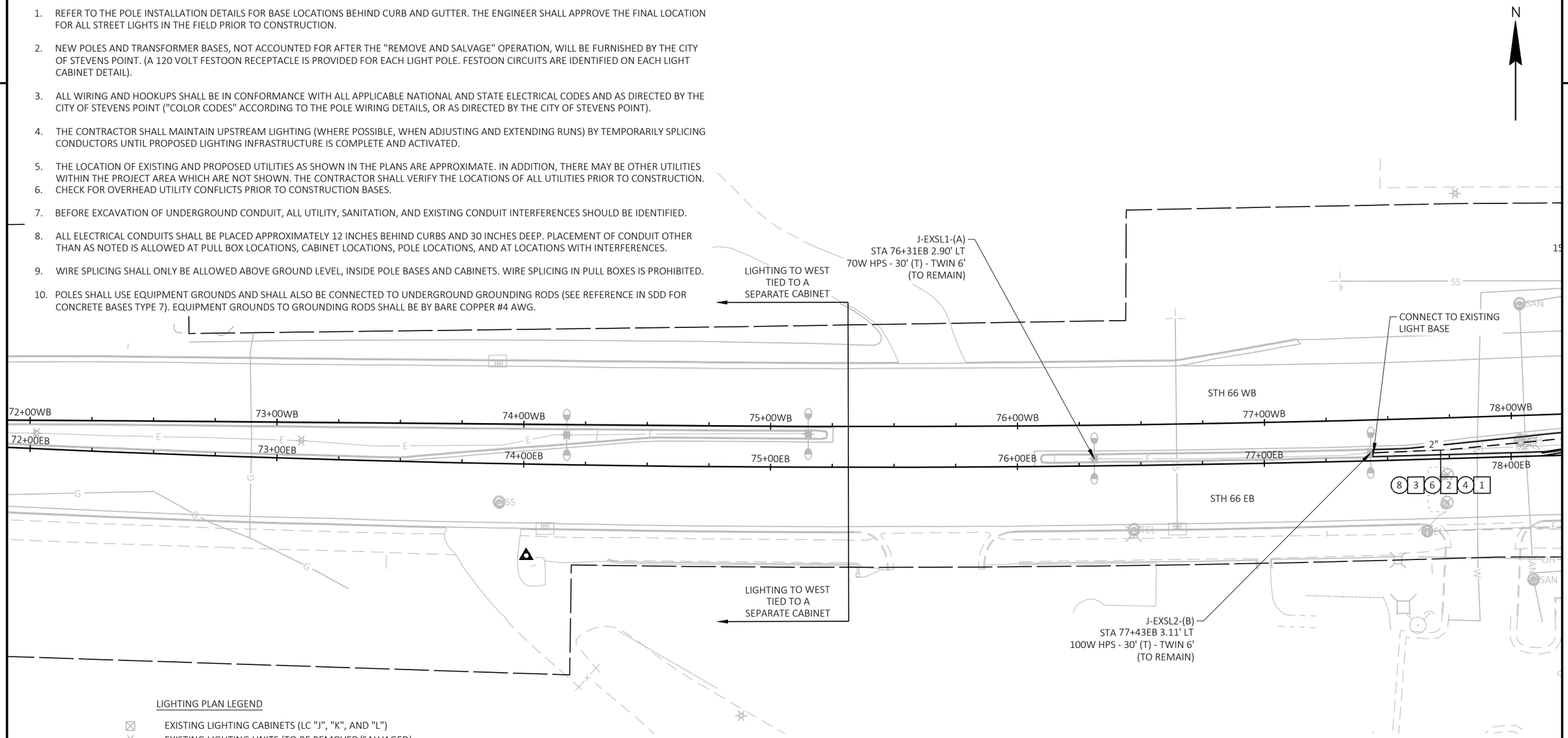
PLOT DATE : 3/16/2021 7:04 AM

PLOT BY : GRULING, ZACHARY P

PLOT NAME :

CONSTRUCTION NOTES:

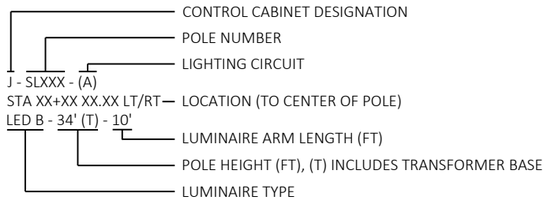
1. REFER TO THE POLE INSTALLATION DETAILS FOR BASE LOCATIONS BEHIND CURB AND GUTTER. THE ENGINEER SHALL APPROVE THE FINAL LOCATION FOR ALL STREET LIGHTS IN THE FIELD PRIOR TO CONSTRUCTION.
2. NEW POLES AND TRANSFORMER BASES, NOT ACCOUNTED FOR AFTER THE "REMOVE AND SALVAGE" OPERATION, WILL BE FURNISHED BY THE CITY OF STEVENS POINT. (A 120 VOLT FESTOON RECEPTACLE IS PROVIDED FOR EACH LIGHT POLE. FESTOON CIRCUITS ARE IDENTIFIED ON EACH LIGHT CABINET DETAIL).
3. ALL WIRING AND HOOKUPS SHALL BE IN CONFORMANCE WITH ALL APPLICABLE NATIONAL AND STATE ELECTRICAL CODES AND AS DIRECTED BY THE CITY OF STEVENS POINT ("COLOR CODES" ACCORDING TO THE POLE WIRING DETAILS, OR AS DIRECTED BY THE CITY OF STEVENS POINT).
4. THE CONTRACTOR SHALL MAINTAIN UPSTREAM LIGHTING (WHERE POSSIBLE, WHEN ADJUSTING AND EXTENDING RUNS) BY TEMPORARILY SPLICING CONDUCTORS UNTIL PROPOSED LIGHTING INFRASTRUCTURE IS COMPLETE AND ACTIVATED.
5. THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN IN 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.
6. CHECK FOR OVERHEAD UTILITY CONFLICTS PRIOR TO CONSTRUCTION BASES.
7. BEFORE EXCAVATION OF UNDERGROUND CONDUIT, ALL UTILITY, SANITATION, AND EXISTING CONDUIT INTERFERENCES SHOULD BE IDENTIFIED.
8. ALL ELECTRICAL CONDUITS SHALL BE PLACED APPROXIMATELY 12 INCHES BEHIND CURBS AND 30 INCHES DEEP. PLACEMENT OF CONDUIT OTHER THAN AS NOTED IS ALLOWED AT PULL BOX LOCATIONS, CABINET LOCATIONS, POLE LOCATIONS, AND AT LOCATIONS WITH INTERFERENCES.
9. WIRE SPLICING SHALL ONLY BE ALLOWED ABOVE GROUND LEVEL, INSIDE POLE BASES AND CABINETS. WIRE SPLICING IN PULL BOXES IS PROHIBITED.
10. POLES SHALL USE EQUIPMENT GROUNDS AND SHALL ALSO BE CONNECTED TO UNDERGROUND GROUNDING RODS (SEE REFERENCE IN SDD FOR CONCRETE BASES TYPE 7). EQUIPMENT GROUNDS TO GROUNDING RODS SHALL BE BY BARE COPPER #4 AWG.

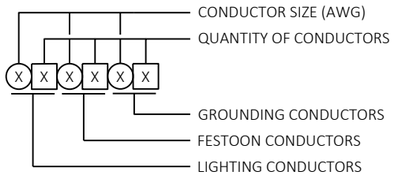


LIGHTING PLAN LEGEND

- EXISTING LIGHTING CABINETS (LC "J", "K", AND "L")
- EXISTING LIGHTING UNITS (TO BE REMOVED/SALVAGED)
- EXISTING LIGHTING UNITS (TO REMAIN IN PLACE)
- PROPOSED LIGHTING ASSEMBLIES (SALVAGED AND REINSTALLED)
- EXISTING STEEL PULL BOX (TO REMAIN OR BE REMOVED)
- PROPOSED PULL BOX NON-CONDUCTIVE 24"X42"
- PROPOSED TRAFFIC SIGNAL CONDUIT
- PROPOSED RIGID NONMETALLIC CONDUIT SCHEDULE 40 (SIZE AS NOTED)
- EXSLXXX — EXISTING LIGHT POLE AND BASE IDENTIFICATION
- EXLPBXXX — EXISTING LIGHT PULL BOX IDENTIFICATION
- SLXXX — PROPOSED LIGHT ASSEMBLY AND BASE IDENTIFICATION
- LPBXXX — PROPOSED LIGHT PULL BOX IDENTIFICATION

GRAYSHADE REPRESENTS EXISTING
BOLD REPRESENTS PROPOSED





PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	LIGHTING PERMANENT	SHEET 91	E

2

N

EXLPBJ100
STA 80+64WB 8' RT
(REMOVE STAGE 5)

LPBJ4
STA 81+60WB 61.20 LT

EXSL6
STA 82+02EB 8' LT
(REMOVE/SALVAGE STAGE 5)

LPBJ3
STA 80+64WB 60.32' LT

J-SL101-(B)
STA 79+54EB 17.21' LT
150W HPS - 30' (T) - TWIN 6'

LPBJ2
STA 80+19WB 42.36' LT

LPBJ5
STA 82+21WB 49.00' LT

J-SL102-(C)
STA 82+69WB 39.66' LT
LED B - 34' (T) - 10'

J-SL104-(D)
STA 84+14WB 37.50' LT
LED B - 34' (T) - 10'

J-SL100-(A)
STA 78+49EB 8.73' LT
150W HPS - 30' (T) - TWIN 6'

STH 66 WB

EXLPBJ102
STA 82+22EB 7' LT
(REMOVE STAGE 5)

EXSL7
STA 83+44EB 7' LT
(REMOVE/SALVAGE STAGE 5)

79+00WB
80+00WB
81+00WB
82+00WB
83+00WB
84+00WB
79+00EB
80+00EB
81+00EB
82+00EB
83+00EB
84+00EB

STH 66 EB

LPBJ6
STA 82+35EB 40' RT

J-SL103-(D)
STA 82+69EB 41.50' RT
LED B - 34' (T) - 10'

EXISTING LIGHTING CABINET
LC-J
(TO REMAIN)

ROUTE CONDUIT AROUND
TRAFFIC SIGNAL PULL BOX

J-SL105-(C)
STA 84+14EB 41.50' RT
LED B - 34' (T) - 10'

EXSL3
STA 78+49EB 6' LT
(REMOVE/SALVAGE STAGE 5)

EXSL4
STA 79+54EB 13' LT
(REMOVE/SALVAGE STAGE 5)

EXSL5
STA 80+45EB 15' LT
(REMOVE/SALVAGE)

LPBJ1
STA 80+18WB 3.69' RT

EXLPBJ101
STA 81+68EB 4' LT
(REMOVE)

BIKE PATH

COUNTRY CLUB DR

62+00CC

63+00CC

GRAYSHADE REPRESENTS EXISTING
BOLD REPRESENTS PROPOSED

LIGHTING PLAN LEGEND

- EXISTING LIGHTING CABINETS (LC "J", "K", AND "L")
- EXISTING LIGHTING UNITS (TO BE REMOVED/SALVAGED)
- EXISTING LIGHTING UNITS (TO REMAIN IN PLACE)
- PROPOSED LIGHTING ASSEMBLIES (SALVAGED AND REINSTALLED)
- EXISTING STEEL PULL BOX (TO REMAIN OR BE REMOVED)
- PROPOSED PULL BOX NON-CONDUCTIVE 24"X42"
- PROPOSED TRAFFIC SIGNAL CONDUIT
- PROPOSED RIGID NONMETALLIC CONDUIT SCHEDULE 40 (SIZE AS NOTED)
- EXSLXXX — EXISTING LIGHT POLE AND BASE IDENTIFICATION
- EXLPBXXX — EXISTING LIGHT PULL BOX IDENTIFICATION
- SLXXX — PROPOSED LIGHT ASSEMBLY AND BASE IDENTIFICATION
- LPBXXX — PROPOSED LIGHT PULL BOX IDENTIFICATION

- CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT

J - SLXXX - (A)
STA XX+XX XX.XX LT/RT — LOCATION (TO CENTER OF POLE)
LED B - 34' (T) - 10'

- LUMINAIRE ARM LENGTH (FT)
- POLE HEIGHT (FT), (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE TYPE

- CONDUCTOR SIZE (AWG)
- QUANTITY OF CONDUCTORS
- GROUNDING CONDUCTORS
- FESTOON CONDUCTORS
- LIGHTING CONDUCTORS

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	LIGHTING PERMANENT	SHEET 92	E

2

2

J-SL104-(D)
STA 84+14WB 37.50' LT
LED B - 34' (T) - 10'

J-SL106-(C)
STA 85+59WB 34.90 LT
LED B - 34' (T) - 10'

EXSL10
STA 87+86EB 11' LT
(REMOVE/SALVAGE STAGE 2)

LPBJ7
STA 87+44WB 40.00' LT

LPBJ8
STA 89+35WB 35.00 LT

J-SL108-(D)
STA 89+30WB 32.00' LT
LED B - 34' (T) - 10'

EXSL11
STA 89+05EB 17' LT
(REMOVE/SALVAGE STAGE 2)

EXLPBJ104
STA 87+68EB 10' LT
(REMOVE STAGE 2)

EXSL8
STA 84+85EB 7' LT
(REMOVE/SALVAGE STAGE 2)

CONDUIT
THROUGH
STRUCTURE

STH 66 WB

84+00WB 85+00WB 86+00WB 87+00WB 88+00WB 89+00WB 90+00W

EXLPBJ103
STA 87+07EB 9' LT
(REMOVE STAGE 2)

84+00EB 85+00EB 86+00EB 87+00EB 88+00EB 89+00EB 90+00E

STH 66 EB

295+00ZC

USH 10 EB/STH 66 EB

LPBJ10
STA 89+28EB 37.17' RT

J-SL105-(C)
STA 84+14EB 41.50' RT
LED B - 34' (T) - 10'

J-SL107-(D)
STA 85+59EB 41.50' RT
LED B - 34' (T) - 10'

J-SL109-(C)
STA 90+01EB 34.00' RT
LED B - 34' (T) - 10'

ROUTE CONDUIT AROUND
TRAFFIC SIGNAL PULL BOX

EXSL9
STA 86+40EB 8' LT
(REMOVE/SALVAGE STAGE 2)

294+00ZC

293+00ZC

272+00ZD

271+00ZD

IH 39 SB ON RAMP

IH 39 SB OFF RAMP

RAMP GORE AREA

RAMP GORE AREA

GRAYSHADE REPRESENTS EXISTING
BOLD REPRESENTS PROPOSED

LIGHTING PLAN LEGEND

- EXISTING LIGHTING CABINETS (LC "J", "K", AND "L")
- EXISTING LIGHTING UNITS (TO BE REMOVED/SALVAGED)
- EXISTING LIGHTING UNITS (TO REMAIN IN PLACE)
- PROPOSED LIGHTING ASSEMBLIES (SALVAGED AND REINSTALLED)
- EXISTING STEEL PULL BOX (TO REMAIN OR BE REMOVED)
- PROPOSED PULL BOX NON-CONDUCTIVE 24"X42"
- PROPOSED TRAFFIC SIGNAL CONDUIT
- PROPOSED RIGID NONMETALLIC CONDUIT SCHEDULE 40 (SIZE AS NOTED)
- EXSLXXX — EXISTING LIGHT POLE AND BASE IDENTIFICATION
- EXLPBXXX — EXISTING LIGHT PULL BOX IDENTIFICATION
- SLXXX — PROPOSED LIGHT ASSEMBLY AND BASE IDENTIFICATION
- LPBXXX — PROPOSED LIGHT PULL BOX IDENTIFICATION

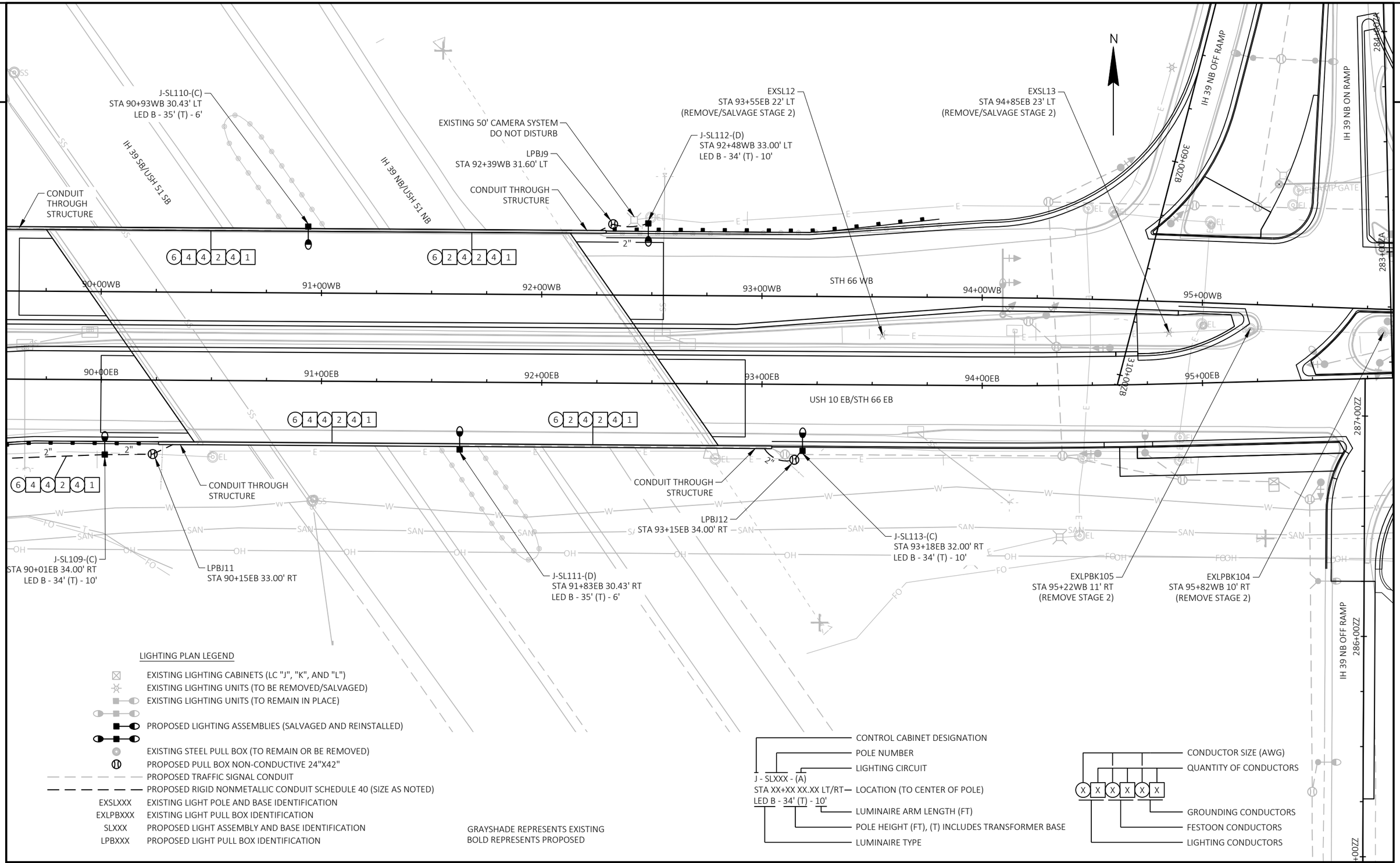
J - SLXXX - (A)
STA XX+XX XX.XX LT/RT
LED B - 34' (T) - 10'

- CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH (FT)
- POLE HEIGHT (FT), (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE TYPE

XXXXXX

- CONDUCTOR SIZE (AWG)
- QUANTITY OF CONDUCTORS
- GROUNDING CONDUCTORS
- FESTOON CONDUCTORS
- LIGHTING CONDUCTORS

PROJECT NO: 6290-09-70/71	HWY: USH 10/STH 66	COUNTY: PORTAGE	LIGHTING PERMANENT	SHEET 93	E



LIGHTING PLAN LEGEND

- EXISTING LIGHTING CABINETS (LC "J", "K", AND "L")
- EXISTING LIGHTING UNITS (TO BE REMOVED/SALVAGED)
- EXISTING LIGHTING UNITS (TO REMAIN IN PLACE)
- PROPOSED LIGHTING ASSEMBLIES (SALVAGED AND REINSTALLED)
- EXISTING STEEL PULL BOX (TO REMAIN OR BE REMOVED)
- PROPOSED PULL BOX NON-CONDUCTIVE 24"X42"
- PROPOSED TRAFFIC SIGNAL CONDUIT
- PROPOSED RIGID NONMETALLIC CONDUIT SCHEDULE 40 (SIZE AS NOTED)
- EXSLXXX — EXISTING LIGHT POLE AND BASE IDENTIFICATION
- EXLPBXXX — EXISTING LIGHT PULL BOX IDENTIFICATION
- SLXXX — PROPOSED LIGHT ASSEMBLY AND BASE IDENTIFICATION
- LPBXXX — PROPOSED LIGHT PULL BOX IDENTIFICATION

GRAYSHADE REPRESENTS EXISTING
BOLD REPRESENTS PROPOSED

J - SLXXX - (A)
STA XX+XX XX.XX LT/RT
LED B - 34' (T) - 10'

- CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH (FT)
- POLE HEIGHT (FT), (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE TYPE

X X X X X X

- CONDUCTOR SIZE (AWG)
- QUANTITY OF CONDUCTORS
- GROUNDING CONDUCTORS
- FESTOON CONDUCTORS
- LIGHTING CONDUCTORS

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	LIGHTING PERMANENT	SHEET 94	E

2

2

N

EXSL15
STA 97+69EB 18' LT
(REMOVE/SALVAGE STAGE 2)

K-SL114-(A)
STA 97+29WB 49.50' LT
LED B - 34' (T) - 10'

LPBK1
STA 98+50WB 41.00' LT

K-SL116-(B)
STA 98+46WB 42.00' LT
LED B - 34' (T) - 10'

EXSL16
STA 99+23EB 18' LT
(REMOVE/SALVAGE STAGE 2)

EXLPBK102
STA 100+58EB 7' LT
(REMOVE STAGE 2)

EXSL17
STA 100+74EB 9' LT
(REMOVE/SALVAGE STAGE 2)

IH 39 NB ON RAMP

284+00ZA

283+00ZA

287+00ZZ

286+00ZZ

24+00MB

23+00MB

22+00MB

21+00MB

OLD HWY 18 RD

USH 10 WB

USH 10 EB

96+00WB

97+00WB

98+00WB

99+00WB

100+00WB

101+00WB

96+00EB

97+00EB

98+00EB

99+00EB

100+00EB

101+00EB

2"

3"

3"

3"

3"

3-3"

EXLPBK104
STA 95+82WB 10' RT
(REMOVE STAGE 2)

EXSL14
STA 96+12EB 19' LT
(REMOVE/SALVAGE STAGE 2)

K-SL115-(A)
STA 97+83EB 41.00' RT
LED B - 34' (T) - 10'

LPBK2
STA 98+50EB 54.00' RT

LPBK3
STA 99+54EB 54.00' RT

EXLPBK103
STA 99+50WB 11' RT
(REMOVE STAGE 2)

LPBK4
STA 100+80EB 60.00' RT

LIGHTING CABINET
LC-K

EXISTING LIGHTING CABINET
LC-K
(TO BE REMOVED)

4 2 4 2 4 1

4 4 4 2 4 1

4 4 4 4 4 2

4 8 4 4 4 2

X X X X X X

LIGHTING PLAN LEGEND

- EXISTING LIGHTING CABINETS (LC "J", "K", AND "L")
- PROPOSED LIGHTING CABINET (LC "K")
- EXISTING LIGHTING UNITS (TO BE REMOVED/SALVAGED)
- EXISTING LIGHTING UNITS (TO REMAIN IN PLACE)
- PROPOSED LIGHTING ASSEMBLIES (SALVAGED AND REINSTALLED)
- EXISTING STEEL PULL BOX (TO REMAIN OR BE REMOVED)
- PROPOSED PULL BOX NON-CONDUCTIVE 24"X42"
- PROPOSED TRAFFIC SIGNAL CONDUIT
- PROPOSED RIGID NONMETALLIC CONDUIT SCHEDULE 40 (SIZE AS NOTED)
- EXSLXXX — EXISTING LIGHT POLE AND BASE IDENTIFICATION
- EXLPBXXX — EXISTING LIGHT PULL BOX IDENTIFICATION
- SLXXX — PROPOSED LIGHT ASSEMBLY AND BASE IDENTIFICATION
- LPBXXX — PROPOSED LIGHT PULL BOX IDENTIFICATION

GRAYSHADE REPRESENTS EXISTING
BOLD REPRESENTS PROPOSED

J - SLXXX - (A)
STA XX+XX XX.XX LT/RT
LED B - 34' (T) - 10'

- CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH (FT)
- POLE HEIGHT (FT), (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE TYPE

- CONDUCTOR SIZE (AWG)
- QUANTITY OF CONDUCTORS
- GROUNDING CONDUCTORS
- FESTOON CONDUCTORS
- LIGHTING CONDUCTORS

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	LIGHTING PERMANENT	SHEET 95	E

2

L-SL118-(A)
STA 101+74WB 55.00' LT
LED B - 34' (T) - 10'

EXSL18
STA 101+69EB 9' LT
(REMOVE/SALVAGE STAGE 2)

EXLPBK100A
STA 101+75EB 9' LT
(REMOVE STAGE 2)

L-SL119-(B)
STA 102+80WB 55.00' LT
LED B - 34' (T) - 10'

EXSL19
STA 102+81WB 41' LT
(REMOVE/SALVAGE STAGE 3)

L-EXSL21-(A)
STA 104+40WB 41' LT
LED B - 34' (T) - 10'
(TO REMAIN)

L-EXSL23-(B)
STA 105+64WB 41' LT
LED B - 34' (T) - 10'
(TO REMAIN)

L-SL120-(A)
STA 107+25WB 42.00' LT
LED B - 34' (T) - 10'

EXSL25
STA 107+25WB 33' LT
(REMOVE/SALVAGE STAGE 4D)

EXLPBK101
STA 101+75WB 42' LT
(REMOVE STAGE 3)

USH 10 WB

102+00WB 103+00WB 104+00WB 105+00WB 106+00WB 107+00WB

102+00EB 103+00EB 104+00EB 105+00EB 106+00EB 107+00EB

USH 10 EB

CONNECT WIRES FROM K-SL117-(A)
TO EXISTING STREET LIGHT BASE

EXLPBK100
STA 101+75EB 29' RT
(TO REMAIN)

K-SL117-(A)
STA 101+71EB 28.50' RT
LED B - 34' (T) - 10'

K-EXSL20-(B)
STA 102+96EB 29' RT
LED B - 34' (T) - 10'
(TO REMAIN)

K-EXSL22-(A)
STA 104+38EB 29' RT
LED B - 34' (T) - 10'
(TO REMAIN)

K-EXSL24-(B)
STA 106+04EB 29' RT
LED B - 34' (T) - 10'
(TO REMAIN)

LIGHTING PLAN LEGEND

- EXISTING LIGHTING CABINETS (LC "J", "K", AND "L")
- EXISTING LIGHTING UNITS (TO BE REMOVED/SALVAGED)
- EXISTING LIGHTING UNITS (TO REMAIN IN PLACE)
- PROPOSED LIGHTING ASSEMBLIES (SALVAGED AND REINSTALLED)
- EXISTING STEEL PULL BOX (TO REMAIN OR BE REMOVED)
- PROPOSED PULL BOX NON-CONDUCTIVE 24"X42"
- PROPOSED TRAFFIC SIGNAL CONDUIT
- PROPOSED RIGID NONMETALLIC CONDUIT SCHEDULE 40 (SIZE AS NOTED)
- EXSLXXX — EXISTING LIGHT POLE AND BASE IDENTIFICATION
- EXLPBXXX — EXISTING LIGHT PULL BOX IDENTIFICATION
- SLXXX — PROPOSED LIGHT ASSEMBLY AND BASE IDENTIFICATION
- LPBXXX — PROPOSED LIGHT PULL BOX IDENTIFICATION

GRAYSHADE REPRESENTS EXISTING
BOLD REPRESENTS PROPOSED

J - SLXXX - (A)
STA XX+XX XX.XX LT/RT
LED B - 34' (T) - 10'

- CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH (FT)
- POLE HEIGHT (FT), (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE TYPE

X X X X X X

- CONDUCTOR SIZE (AWG)
- QUANTITY OF CONDUCTORS
- GROUNDING CONDUCTORS
- FESTOON CONDUCTORS
- LIGHTING CONDUCTORS

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	LIGHTING PERMANENT	SHEET 96	E

2

N

L-SL120-(A)
STA 107+25WB 42.00' LT
LED B - 34' (T) - 10'

EXSL25
STA 107+25WB 33' LT
(REMOVE/SALVAGE STAGE 4D)

EXSL27
STA 108+86EB 48' LT
(REMOVE/SALVAGE STAGE 4D)

L-SL121-(B)
STA 108+86EB 62.50' LT
LED B - 34' (T) - 10'

EXSL29
STA 110+35EB 48' LT
(REMOVE/SALVAGE STAGE 4D)

L-SL122-(A)
STA 110+35EB 62.50' LT
LED B - 34' (T) - 10'

EXSL31
STA 111+91EB 48' LT
(REMOVE/SALVAGE STAGE 4D)

L-SL123-(B)
STA 112+10EB 49.63' LT
LED B - 34' (T) - 10'

2"

4 4 4 2 4 1

USH 10 WB

+00WB

+00EB 108+00EB 109+00EB 110+00EB 111+00EB 112+00EB 113+00EB

USH 10 EB

K-EXSL26-(A)
STA 107+94EB 29' RT
LED B - 34' (T) - 10'
(TO REMAIN)

K-EXSL28-(B)
STA 109+50EB 29' RT
LED B - 34' (T) - 10'
(TO REMAIN)

K-EXSL30-(A)
STA 111+14EB 29' RT
LED B - 34' (T) - 10'
(TO REMAIN)

END RUN
LIGHT CONTROL CABINET "K"

LIGHTING PLAN LEGEND

- EXISTING LIGHTING CABINETS (LC "J", "K", AND "L")
- EXISTING LIGHTING UNITS (TO BE REMOVED/SALVAGED)
- EXISTING LIGHTING UNITS (TO REMAIN IN PLACE)
- PROPOSED LIGHTING ASSEMBLIES (SALVAGED AND REINSTALLED)
- EXISTING STEEL PULL BOX (TO REMAIN OR BE REMOVED)
- PROPOSED PULL BOX NON-CONDUCTIVE 24"X42"
- PROPOSED TRAFFIC SIGNAL CONDUIT
- PROPOSED RIGID NONMETALLIC CONDUIT SCHEDULE 40 (SIZE AS NOTED)
- EXSLXXX — EXISTING LIGHT POLE AND BASE IDENTIFICATION
- EXLPBXXX — EXISTING LIGHT PULL BOX IDENTIFICATION
- SLXXX — PROPOSED LIGHT ASSEMBLY AND BASE IDENTIFICATION
- LPBXXX — PROPOSED LIGHT PULL BOX IDENTIFICATION

GRAYSHADE REPRESENTS EXISTING
BOLD REPRESENTS PROPOSED

J - SLXXX - (A)
STA XX+XX XX.XX LT/RT
LED B - 34' (T) - 10'

- CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH (FT)
- POLE HEIGHT (FT), (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE TYPE

X X X X X X

- CONDUCTOR SIZE (AWG)
- QUANTITY OF CONDUCTORS
- GROUNDING CONDUCTORS
- FESTOON CONDUCTORS
- LIGHTING CONDUCTORS

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	LIGHTING PERMANENT	SHEET 97	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\023601-LP.DWG
LAYOUT NAME - 07
PLOT DATE : 3/16/2021 7:09 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

CONNECT TO EXISTING STREET LIGHT BASE

L-EXSL32-(A)
STA 113+87EB 49' LT
LED B - 30' (T) - 10'
(TO REMAIN)

L-EXSL33-(B)
STA 115+90EB 49' LT
LED B - 30' (T) - 10'
(TO REMAIN)

L-EXSL34-(A)
STA 117+72EB 49' LT
LED B - 30' (T) - 10'
(TO REMAIN)

4 4 4 2 4 1

2"

USH 10 WB

USH 10 EB

113+00EB 114+00EB 115+00EB 116+00EB 117+00EB 118+00EB 119+00EB

LIGHTING PLAN LEGEND

- EXISTING LIGHTING CABINETS (LC "J", "K", AND "L")
- EXISTING LIGHTING UNITS (TO BE REMOVED/SALVAGED)
- EXISTING LIGHTING UNITS (TO REMAIN IN PLACE)
- PROPOSED LIGHTING ASSEMBLIES (SALVAGED AND REINSTALLED)
- EXISTING STEEL PULL BOX (TO REMAIN OR BE REMOVED)
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- PROPOSED TRAFFIC SIGNAL CONDUIT
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- EXLPBXXX — EXISTING LIGHT PULL BOX IDENTIFICATION
- SLXXX — PROPOSED LIGHT ASSEMBLY AND BASE IDENTIFICATION
- LPBXXX — PROPOSED LIGHT PULL BOX IDENTIFICATION

GRAYSHADE REPRESENTS EXISTING
BOLD REPRESENTS PROPOSED

J - SLXXX - (A)
STA XX+XX XX.XX LT/RT
LED B - 34' (T) - 10'

- CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH (FT)
- POLE HEIGHT (FT), (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE TYPE

X X X X X X

- CONDUCTOR SIZE (AWG)
- QUANTITY OF CONDUCTORS
- GROUNDING CONDUCTORS
- FESTOON CONDUCTORS
- LIGHTING CONDUCTORS

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	LIGHTING PERMANENT	SHEET 98	E

2

N

END RUN
LIGHTING CONTROL CABINET L
(10 ADDITIONAL LED B LUMINARIES
WILDWOOD DR TO ELIZABETH AVE)

EXISTING LIGHTING CABINET
LC-L
(TO REMAIN)

L-EXSL35-(B)
STA 120+16EB 49' LT
LED B - 30' (T) - 10'
(TO REMAIN)

L-EXSL36-(A)
STA 122+40EB 49' LT
LED B - 30' (T) - 10'
(TO REMAIN)

L-EXSL37-(B)
STA 124+64EB 49' LT
LED B - 30' (T) - 10'
(TO REMAIN)

EXLPBL100
STA 125+22EB 66' LT
(TO REMAIN)

2"
2"
2"
3"
2"

USH 10 WB

120+00EB 121+00EB 122+00EB 123+00EB 124+00EB 125+00EB 126+00EB

USH 10 EB

LIGHTING PLAN LEGEND

- EXISTING LIGHTING CABINETS (LC "J", "K", AND "L")
- EXISTING LIGHTING UNITS (TO BE REMOVED/SALVAGED)
- EXISTING LIGHTING UNITS (TO REMAIN IN PLACE)
- PROPOSED LIGHTING ASSEMBLIES (SALVAGED AND REINSTALLED)
- EXISTING STEEL PULL BOX (TO REMAIN OR BE REMOVED)
- PROPOSED PULL BOX NON-CONDUCTIVE 24"X42"
- PROPOSED TRAFFIC SIGNAL CONDUIT
- PROPOSED RIGID NONMETALLIC CONDUIT SCHEDULE 40 (SIZE AS NOTED)
- EXSLXXX EXISTING LIGHT POLE AND BASE IDENTIFICATION
- EXLPBXXX EXISTING LIGHT PULL BOX IDENTIFICATION
- SLXXX PROPOSED LIGHT ASSEMBLY AND BASE IDENTIFICATION
- LPBXXX PROPOSED LIGHT PULL BOX IDENTIFICATION

GRAYSHADE REPRESENTS EXISTING
BOLD REPRESENTS PROPOSED

J - SLXXX - (A)
STA XX+XX XX.XX LT/RT
LED B - 34' (T) - 10'

- CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH (FT)
- POLE HEIGHT (FT), (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE TYPE

X X X X X X

- CONDUCTOR SIZE (AWG)
- QUANTITY OF CONDUCTORS
- GROUNDING CONDUCTORS
- FESTOON CONDUCTORS
- LIGHTING CONDUCTORS

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	LIGHTING PERMANENT	SHEET 99	E

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.

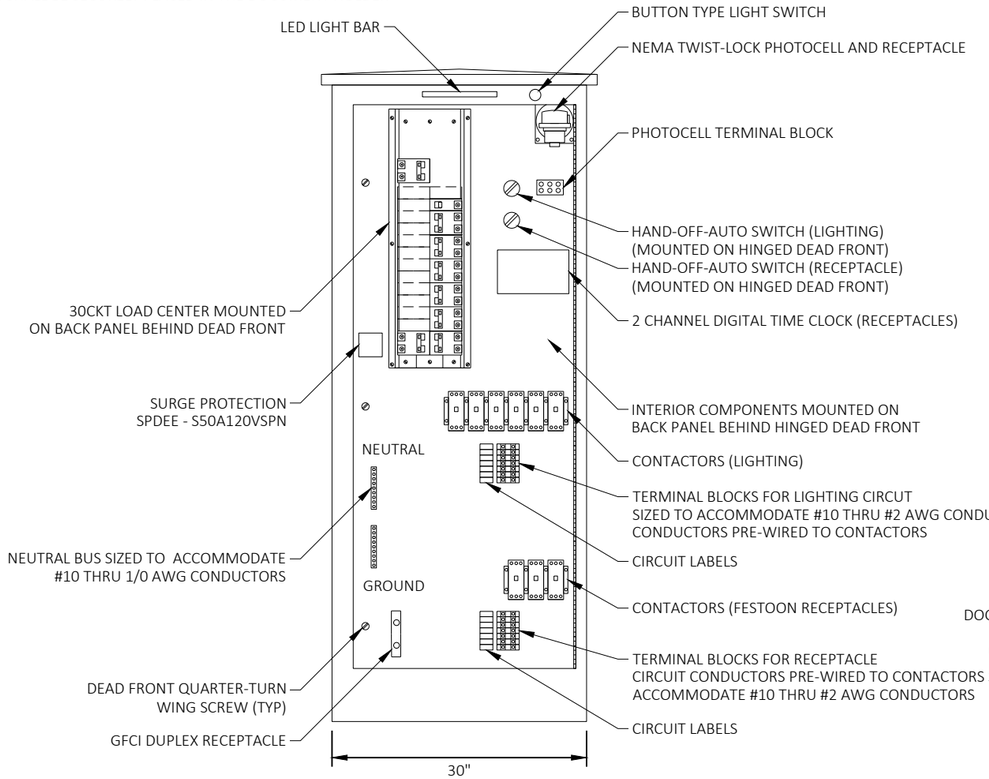
ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE-WIRED BY THE CABINET FABRICATOR.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

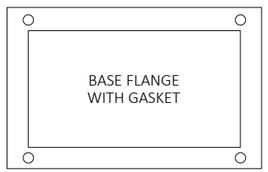
ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS.

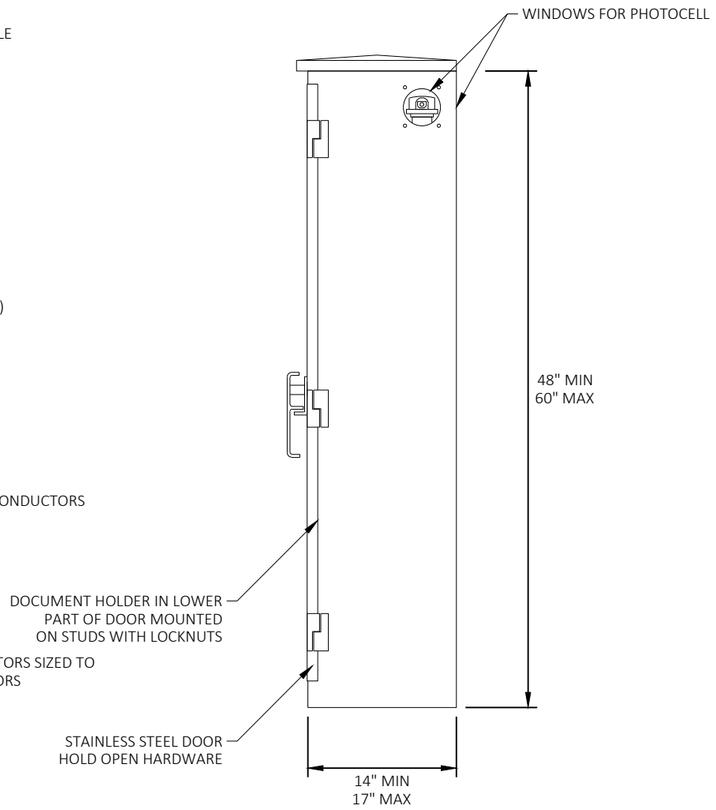
THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.



FRONT INTERIOR ELEVATION





SIDE VIEW

LIGHTING CONTROL CABINET 120/240 VOLT SPECIAL - LAYOUT

SHEET 1 OF 2

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	LIGHTING DETAILS - CONTROL CABINET 120/240V SPECIAL	SHEET 100	E

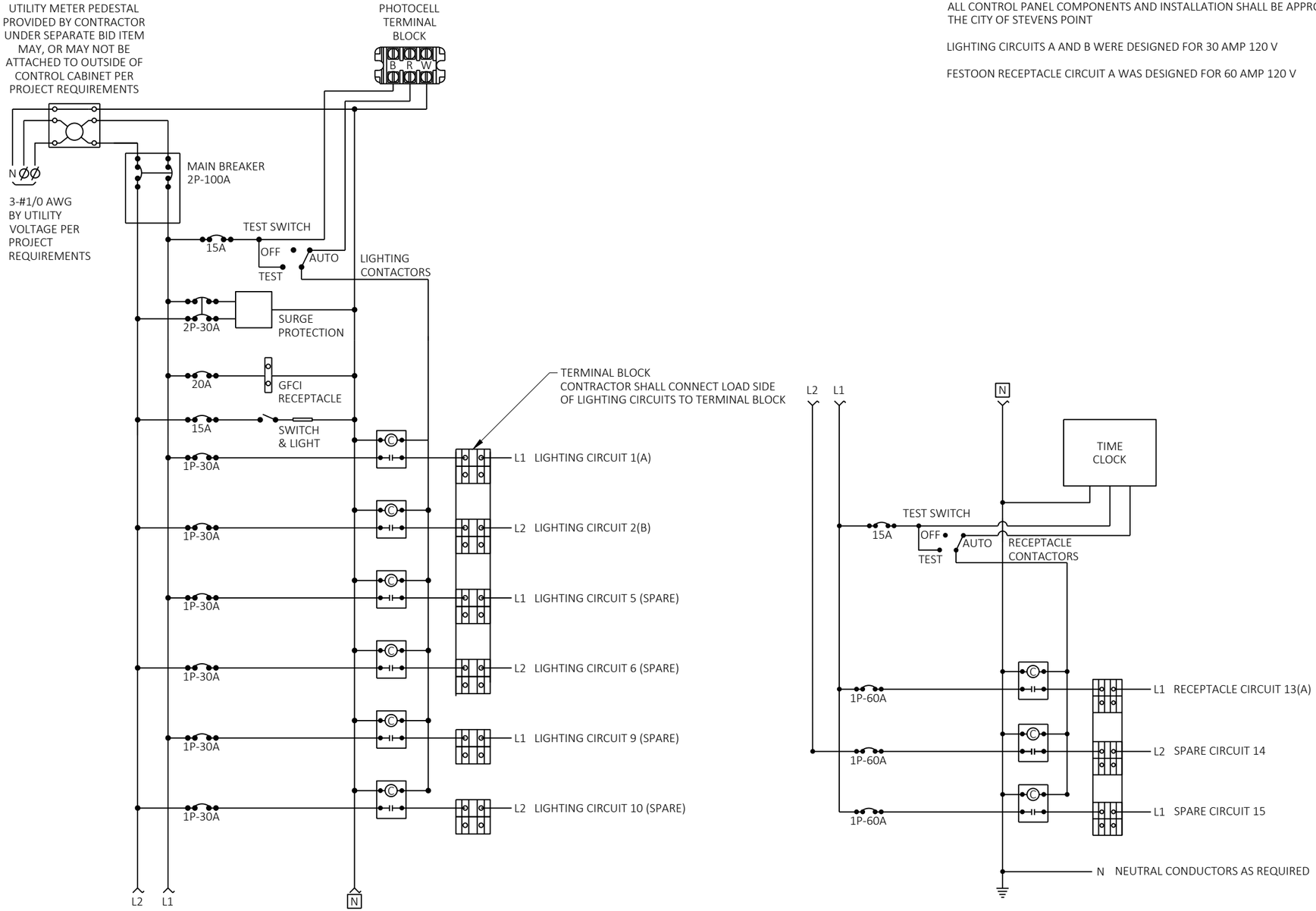
2

CONTROL PANEL NOTES:

ALL CONTROL PANEL COMPONENTS AND INSTALLATION SHALL BE APPROVED BY THE ENGINEER AND THE CITY OF STEVENS POINT

LIGHTING CIRCUITS A AND B WERE DESIGNED FOR 30 AMP 120 V

FESTOON RECEPTACLE CIRCUIT A WAS DESIGNED FOR 60 AMP 120 V



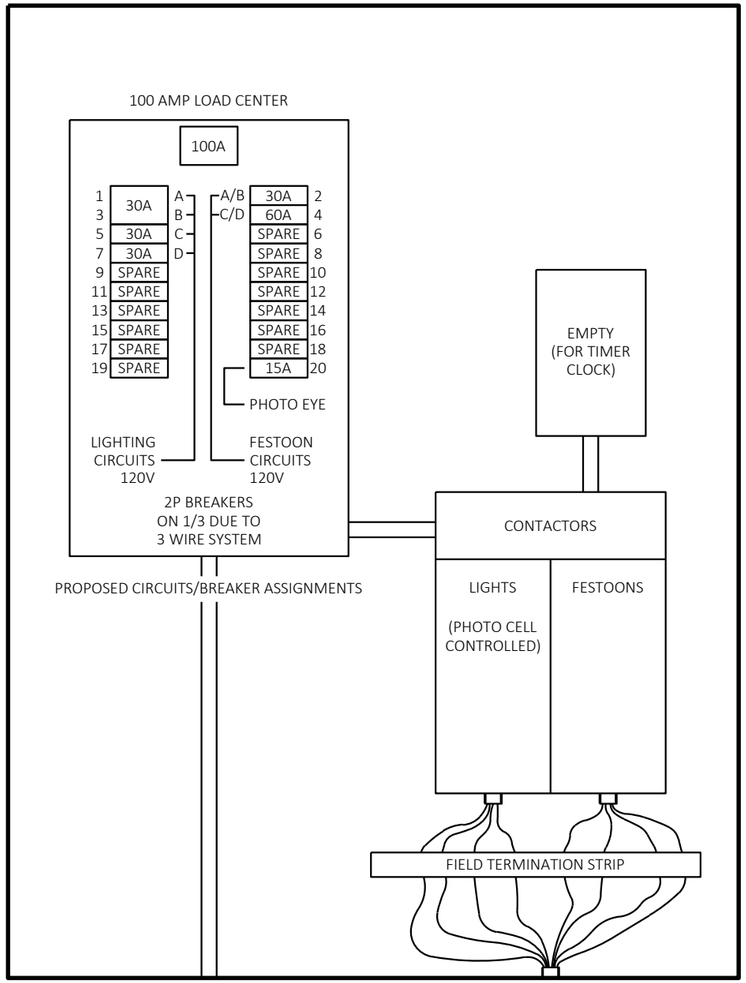
LIGHTING CONTROL CABINET 120/240 VOLT SPECIAL - WIRING SCHEMATIC

CABINET LC-K (USH 10 & MAPLE BLUFF RD/OLD HWY 18 RD)

SHEET 2 OF 2

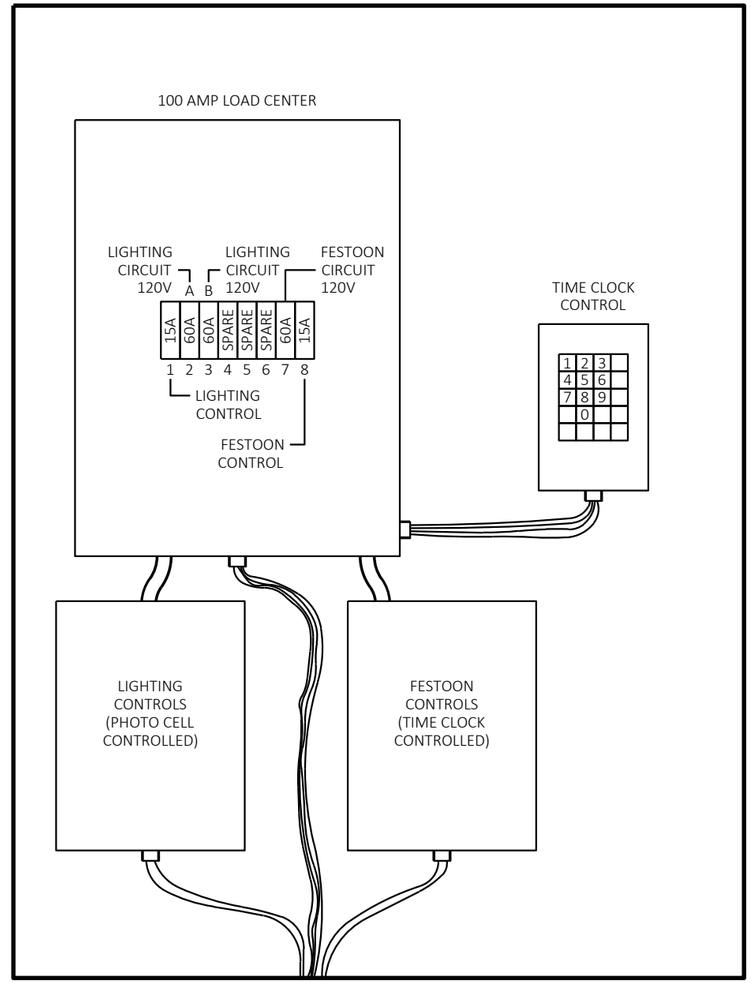
PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	LIGHTING DETAILS - CONTROL CABINET 120/240V SPECIAL	SHEET 101	E

2



CABINET SHELL (EQUIPMENT LAYOUT) LC-J

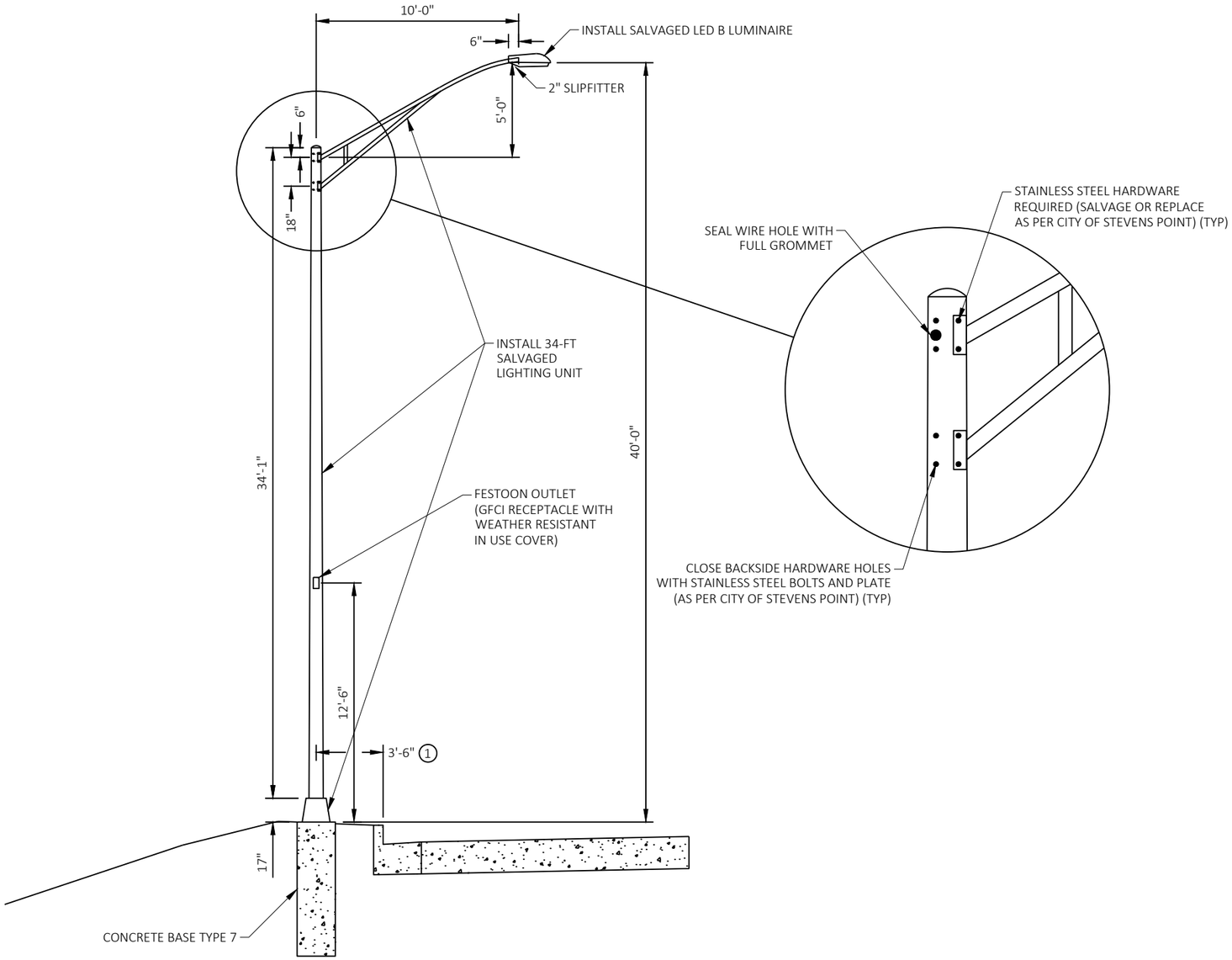
EXISTING LIGHTING CABINET LC-J (STH 66 & COUNTRY CLUB DR)



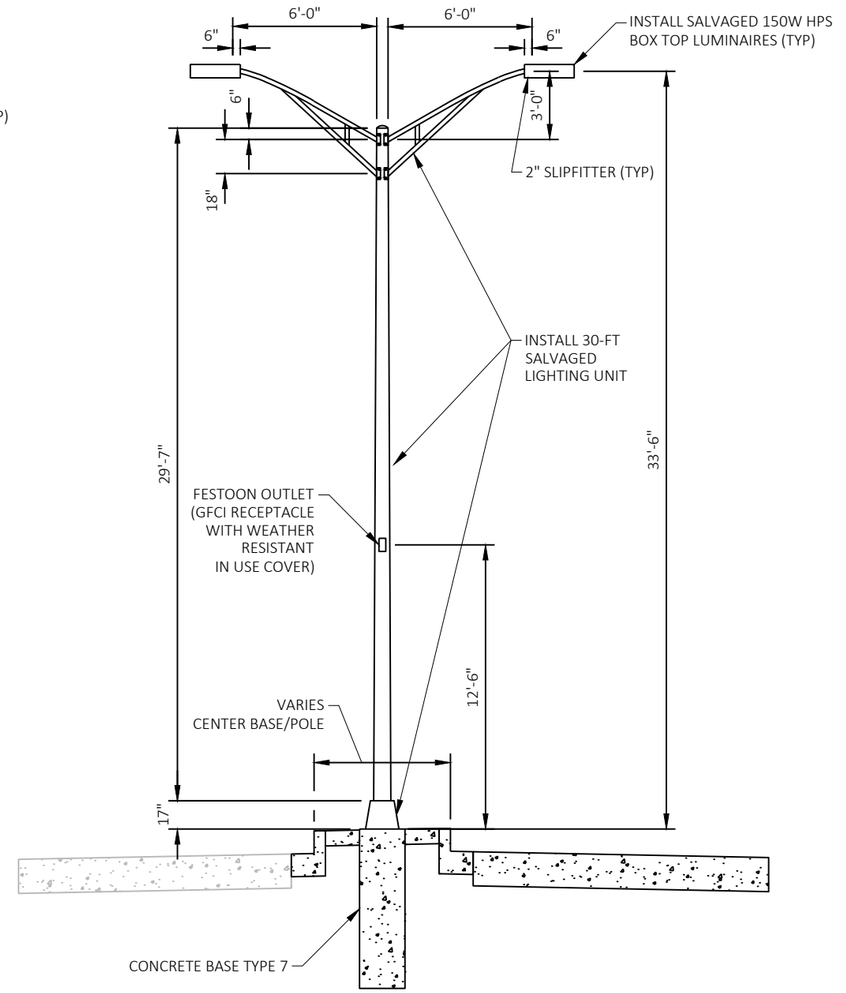
CABINET SHELL (EQUIPMENT LAYOUT) LC-L

EXISTING LIGHTING CABINET LC-L (USH 10 & WILDWOOD DR)

(1) 2-FT MINIMUM BEHIND PAVED SHOULDER

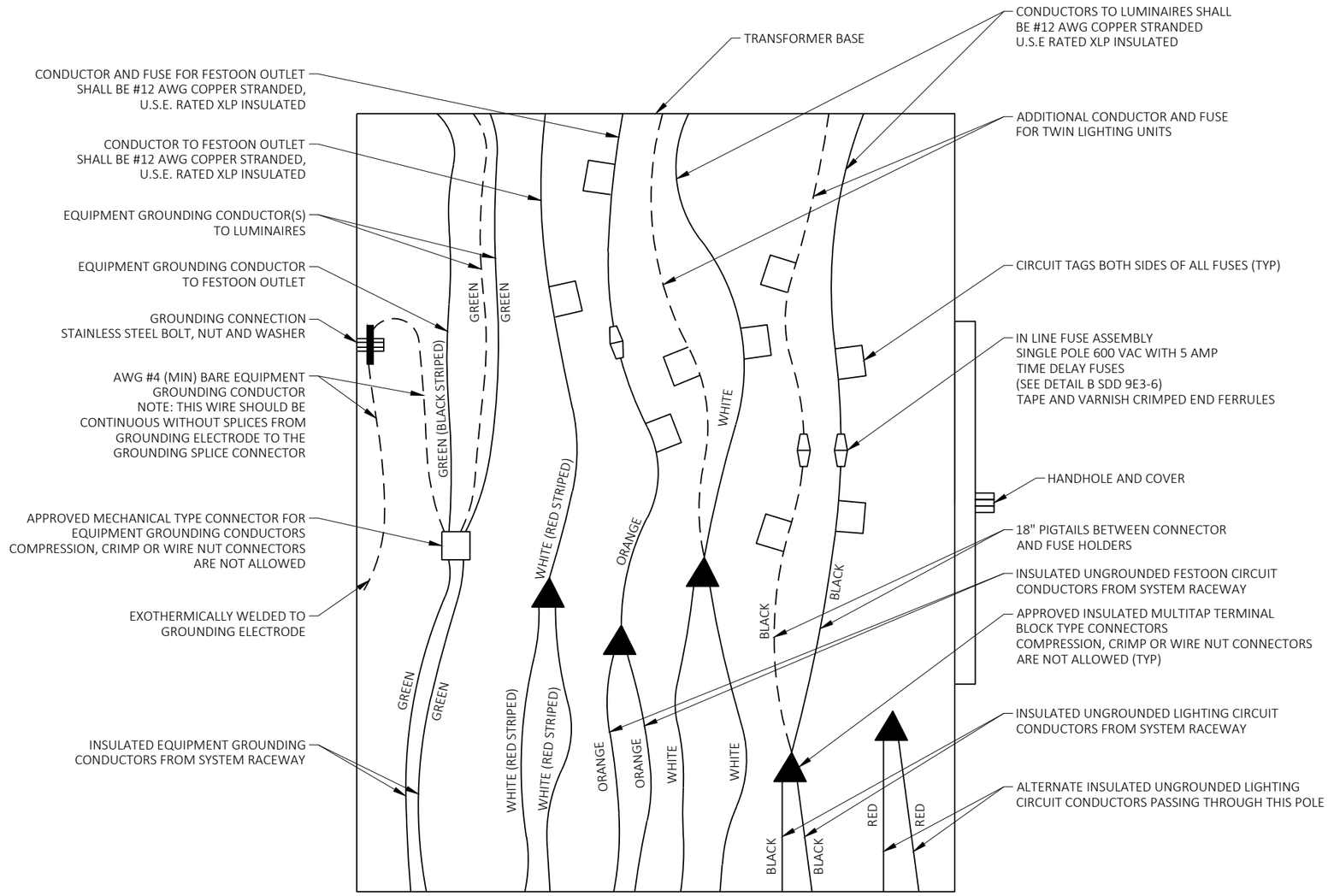


INSTALLATION DETAIL SALVAGED 34-FT LIGHTING UNIT



INSTALLATION DETAIL SALVAGED 30-FT LIGHTING UNIT

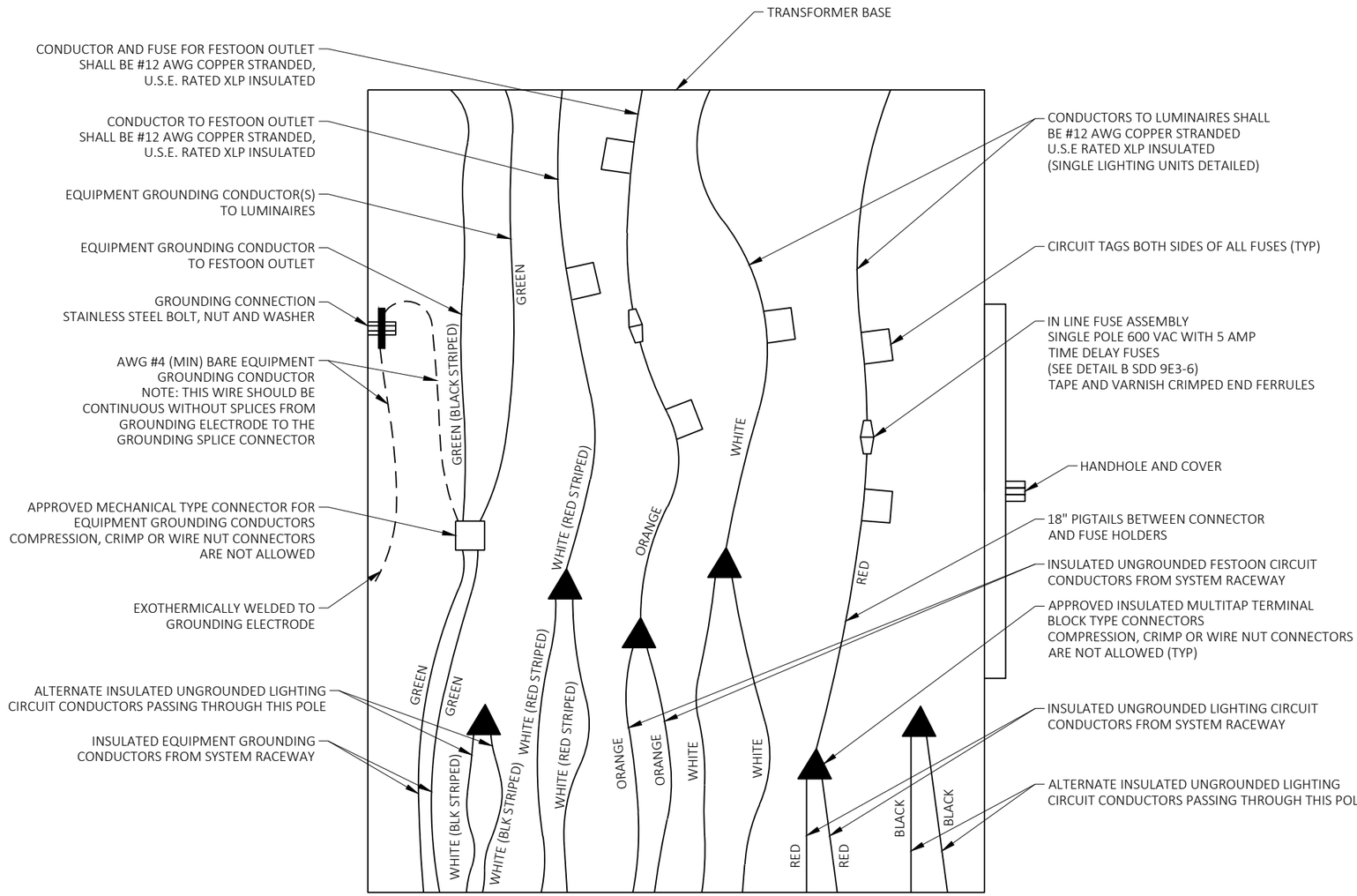
2



POLE WIRING DETAIL - TWIN ARM 30-FT LIGHTING UNITS

3 WIRE 120V PHASE TO PHASE (LIGHTING WITH FESTOONS)

2



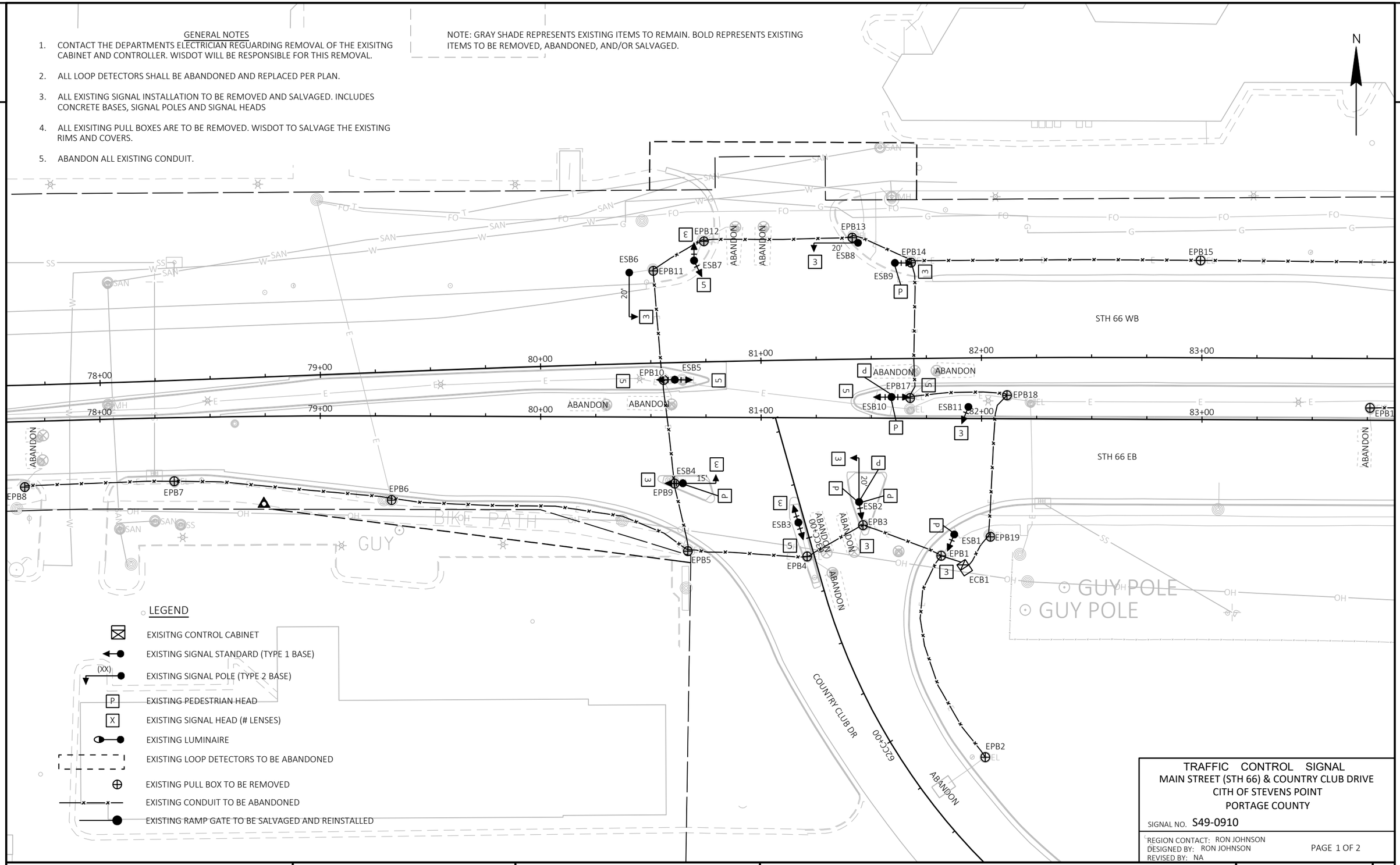
POLE WIRING DETAIL - SINGLE ARM 34-FT LIGHTING UNITS

4 WIRE 120V PHASE TO PHASE (LIGHTING WITH FESTOONS)

GENERAL NOTES

1. CONTACT THE DEPARTMENTS ELECTRICIAN REGUARDING REMOVAL OF THE EXISITNG CABINET AND CONTROLLER. WISDOT WILL BE RESPONSIBLE FOR THIS REMOVAL.
2. ALL LOOP DETECTORS SHALL BE ABANDONED AND REPLACED PER PLAN.
3. ALL EXISTING SIGNAL INSTALLATION TO BE REMOVED AND SALVAGED. INCLUDES CONCRETE BASES, SIGNAL POLES AND SIGNAL HEADS
4. ALL EXISITNG PULL BOXES ARE TO BE REMOVED. WISDOT TO SALVAGE THE EXISTING RIMS AND COVERS.
5. ABANDON ALL EXISTING CONDUIT.

NOTE: GRAY SHADE REPRESENTS EXISTING ITEMS TO REMAIN. BOLD REPRESENTS EXISTING ITEMS TO BE REMOVED, ABANDONED, AND/OR SALVAGED.



TRAFFIC CONTROL SIGNAL
MAIN STREET (STH 66) & COUNTRY CLUB DRIVE
CITH OF STEVENS POINT
PORTAGE COUNTY

SIGNAL NO. S49-0910

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY: NA

PAGE 1 OF 2

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TRAFFIC SIGNAL SALVAGE AND REMOVAL PLAN	SHEET 106	E

GENERAL NOTES

1. CONTACT THE DEPARTMENTS ELECTRICIAN REGUARDING REMOVAL OF THE EXISITNG CABINET AND CONTROLLER. WISDOT WILL BE RESPONSIBLE FOR THIS REMOVAL.
2. ALL LOOP DETECTORS SHALL BE ABANDONED AND REPLACED PER PLAN.
3. ALL EXISTING SIGNAL INSTALLATION TO BE REMOVED AND SALVAGED. INCLUDES CONCRETE BASES, SIGNAL POLES AND SIGNAL HEADS
4. ALL EXISITING PULL BOXES ARE TO BE REMOVED. WISDOT TO SALVAGE THE EXISTING RIMS AND COVERS.
5. ABANDON ALL EXISTING CONDUIT.

NOTE: GRAY SHADE REPRESENTS EXISTING ITEMS TO REMAIN. BOLD REPRESENTS EXISTING ITEMS TO BE REMOVED, ABANDONED, AND/OR SALVAGED.

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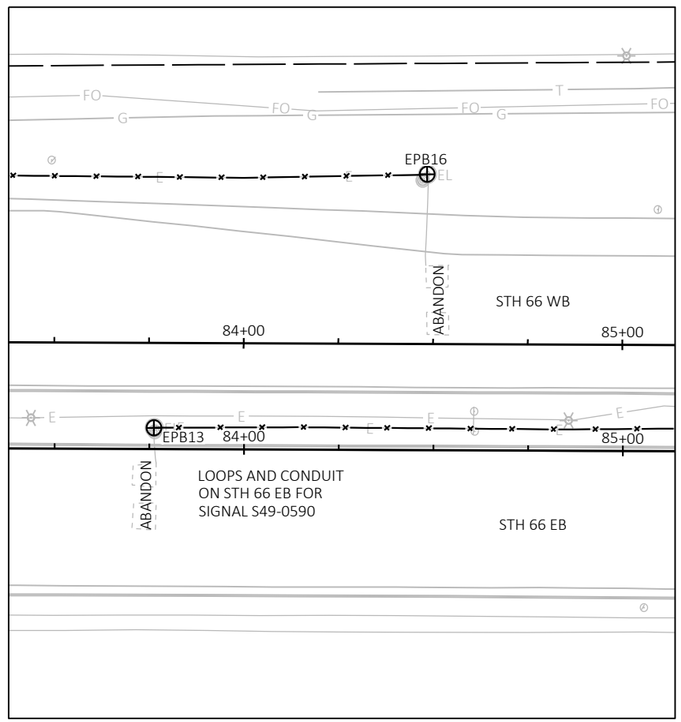


LEGEND

- EXISITNG CONTROL CABINET
- EXISTING SIGNAL STANDARD (TYPE 1 BASE)
- (XX) EXISTING SIGNAL POLE (TYPE 2 BASE)
- P EXISTING PEDESTRIAN HEAD
- X EXISTING SIGNAL HEAD (# LENSES)
- EXISTING LUMINAIRE
- EXISTING LOOP DETECTORS TO BE ABANDONED
- EXISTING PULL BOX TO BE REMOVED
- EXISTING CONDUIT TO BE ABANDONED
- EXISTING RAMP GATE TO BE SALVAGED AND REINSTALLED

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TRAFFIC SIGNAL SALVAGE AND REMOVAL PLAN (S49-0910)	SHEET 107	E

2

2

GENERAL NOTES

1. CONTACT THE DEPARTMENTS ELECTRICIAN REGUARDING REMOVAL OF THE EXISITNG CABINET AND CONTROLLER. WISDOT WILL BE RESPONSIBLE FOR THIS REMOVAL.
2. ALL LOOP DETECTORS SHALL BE ABANDONED AND REPLACED PER PLAN.
3. ALL EXISTING SIGNAL INSTALLATION TO BE REMOVED AND SALVAGED. INCLUDES CONCRETE BASES, SIGNAL POLES AND SIGNAL HEADS
4. ALL EXISITING PULL BOXES ARE TO BE REMOVED. WISDOT TO SALVAGE THE EXISTING RIMS AND COVERS.
5. ABANDON ALL EXISTING CONDUIT.

NOTE: GRAY SHADE REPRESENTS EXISTING ITEMS TO REMAIN. BOLD REPRESENTS EXISTING ITEMS TO BE REMOVED, ABANDONED, AND/OR SALVAGED.

N

EPB16 LOOPS AND CONDUIT ON STH 66 WB FOR SIGNAL S49-0910

STH 66 WB

ABANDON

84+00 85+00 86+00 87+00 88+00 89+00

ESB6 EPB14 ESB7 ESB8 EPB15 EPB16

20'

STH 66 WB

ABANDON

ABANDON ABANDON

EPB13 84+00 85+00 86+00 87+00 89+00

ESB5 EPB12 ESB9 EPB17 ESB10 ESB11

STH 66 EB

USH 10 EB/STH 66 EB

2952C+00

ESB4 EPB10 ESB3 EPB18 EPB7 ESB2 EPB19 ESB1

ELB5 EGB1 EPB6 ECB1

EPB11 EPB8 EPB1

EGB2 ELB1

2712D+00

2942C+00

IH 39 SB ON RAMP

IH 39 SB OFF RAMP

ELB6 EPB9 EPB2

2722D+00

GUY

SAN

FO

OH

W

T

SS

LEGEND

- EXISITNG CONTROL CABINET
- EXISTING SIGNAL STANDARD (TYPE 1 BASE)
- (XX) EXISTING SIGNAL POLE (TYPE 2 BASE)
- P EXISTING PEDESTRIAN HEAD
- X EXISTING SIGNAL HEAD (# LENSES)
- EXISTING LUMINAIRE
- EXISTING LOOP DETECTORS TO BE ABANDONED
- EXISTING PULL BOX TO BE REMOVED
- EXISTING CONDUIT TO BE ABANDONED
- EXISTING RAMP GATE TO BE SALVAGED AND REINSTALLED

TRAFFIC CONTROL SIGNAL
USH 10/STH 66 & IH 39/USH 51 SB RAMPS
CITY OF STEVENS POINT
PORTAGE COUNTY

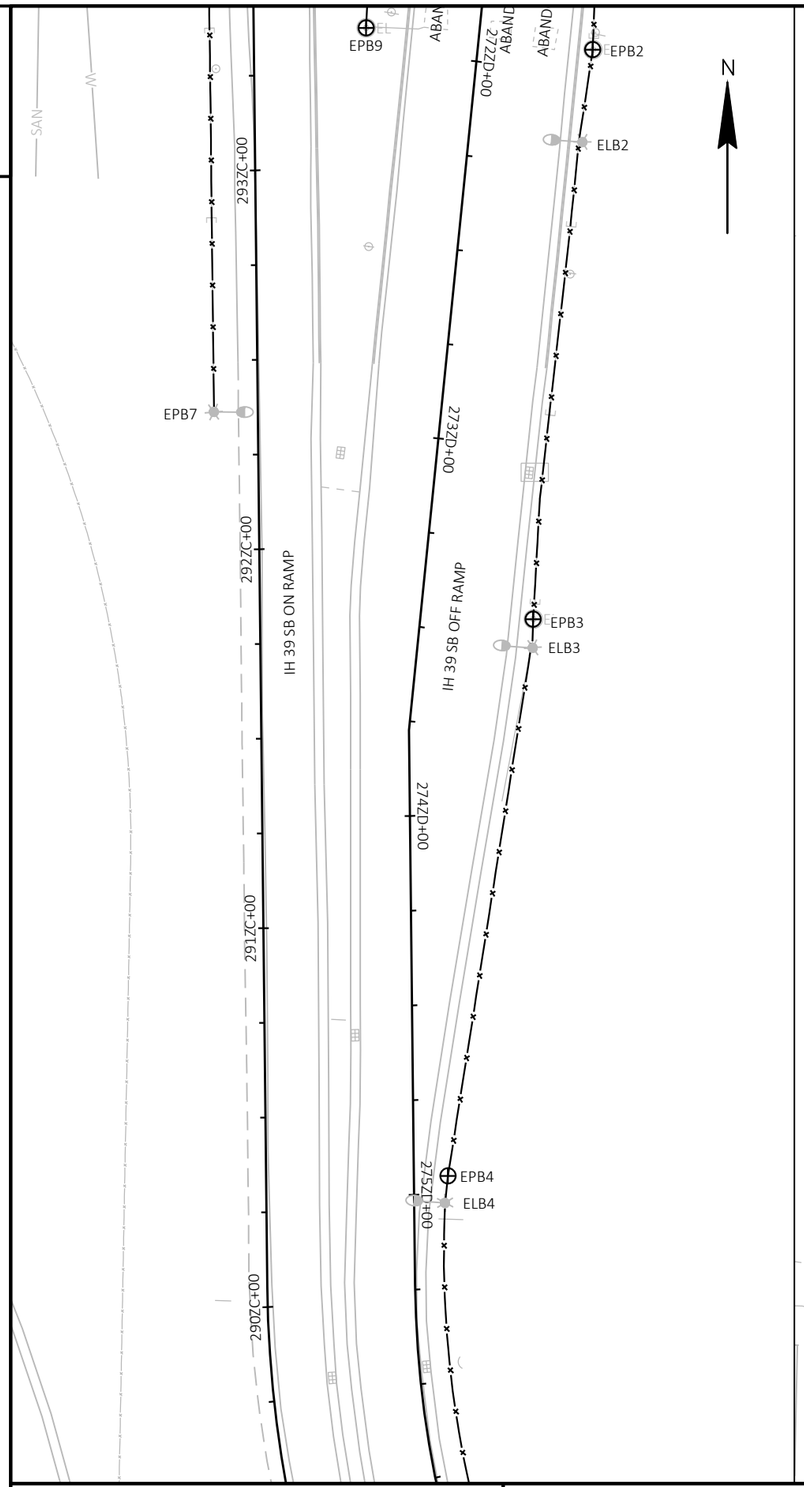
SIGNAL NO. S49-0590

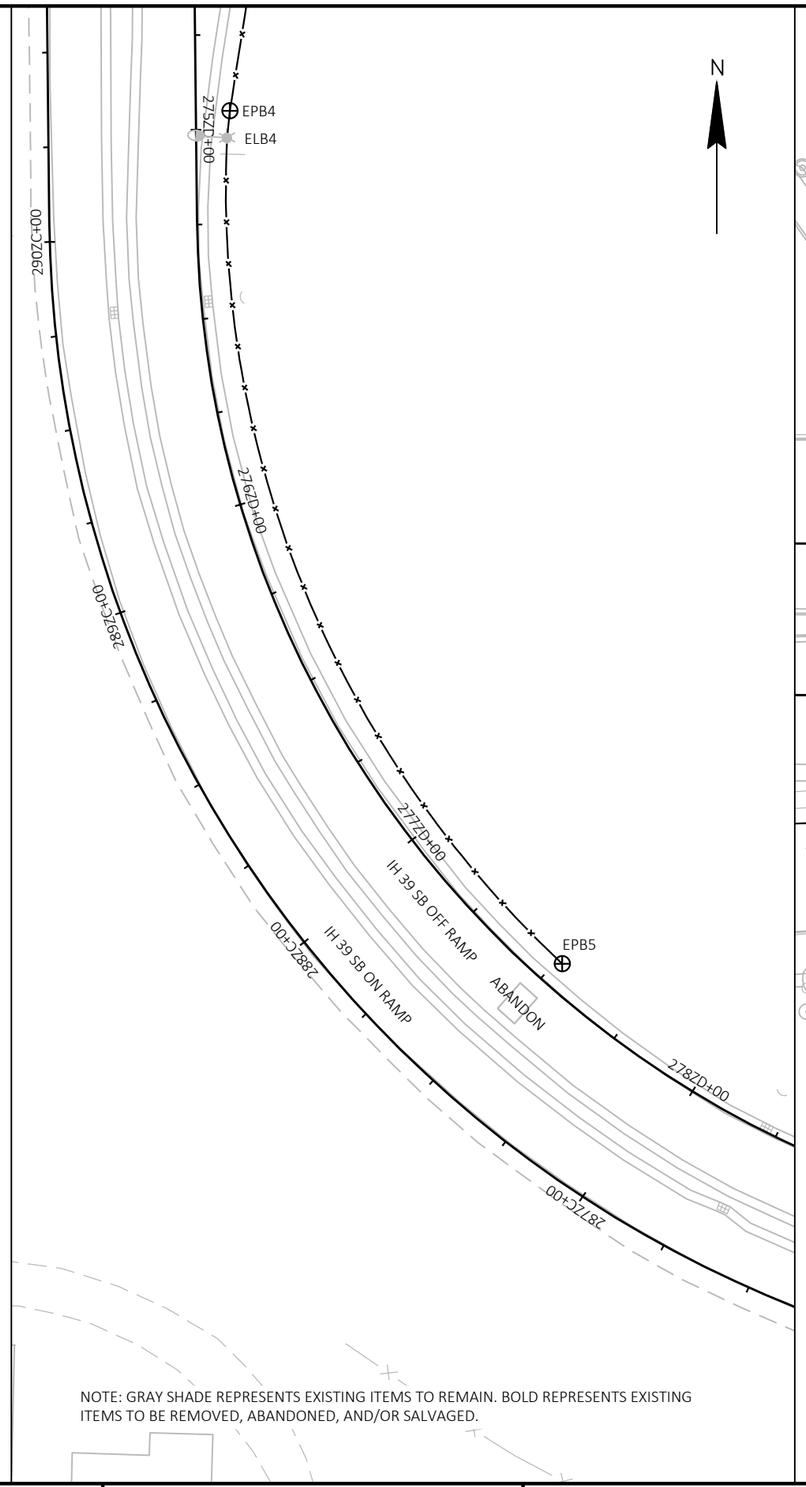
REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY: NA

PAGE 1 OF 2

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL SALVAGE AND REMOVAL PLAN	SHEET 108	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024001-SR.DWG
LAYOUT NAME - 02
PLOT DATE : 2/1/2021 7:00 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

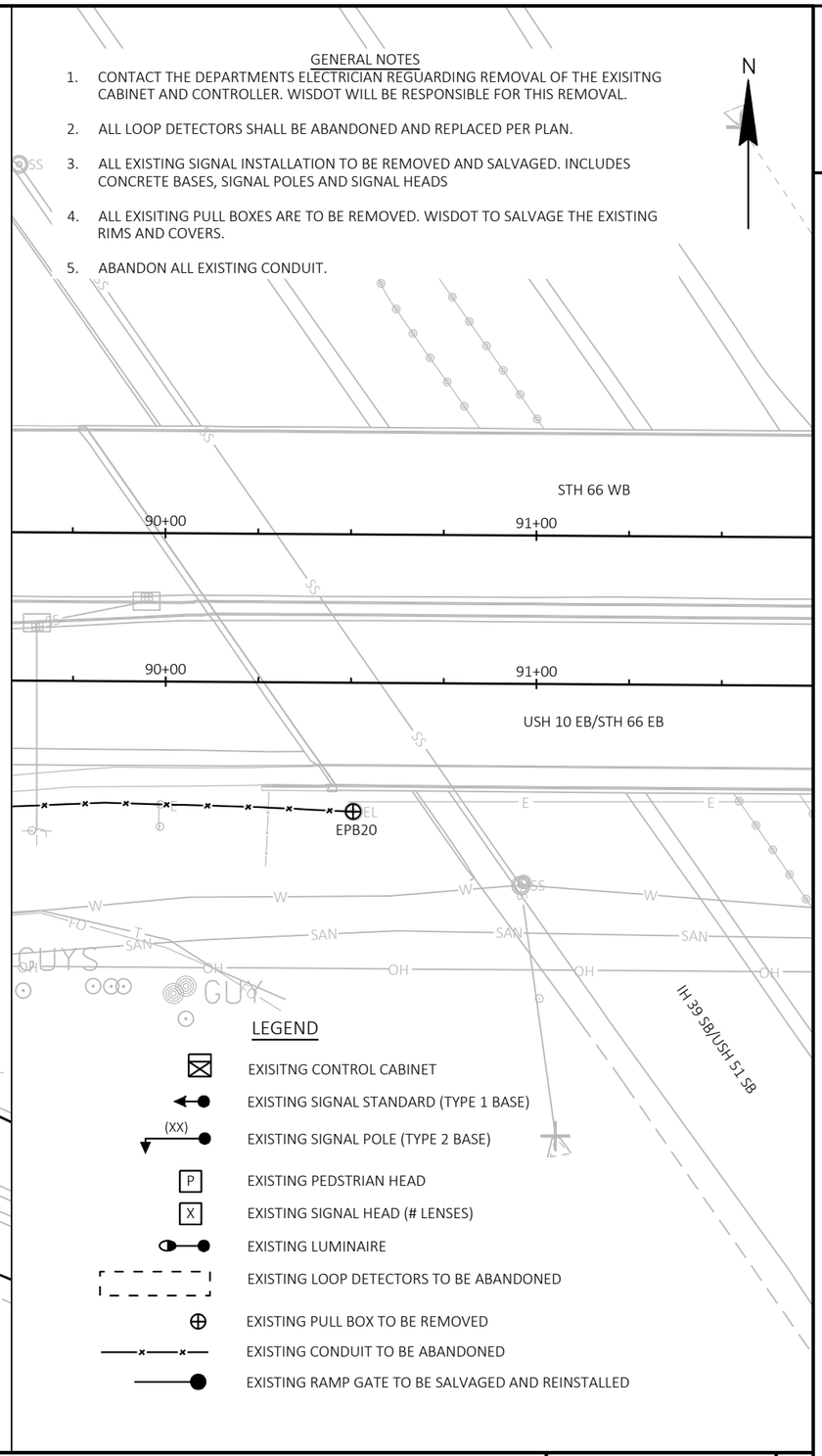




NOTE: GRAY SHADE REPRESENTS EXISTING ITEMS TO REMAIN. BOLD REPRESENTS EXISTING ITEMS TO BE REMOVED, ABANDONED, AND/OR SALVAGED.

GENERAL NOTES

1. CONTACT THE DEPARTMENTS ELECTRICIAN REGUARDING REMOVAL OF THE EXISITNG CABINET AND CONTROLLER. WISDOT WILL BE RESPONSIBLE FOR THIS REMOVAL.
2. ALL LOOP DETECTORS SHALL BE ABANDONED AND REPLACED PER PLAN.
3. ALL EXISTING SIGNAL INSTALLATION TO BE REMOVED AND SALVAGED. INCLUDES CONCRETE BASES, SIGNAL POLES AND SIGNAL HEADS
4. ALL EXISITING PULL BOXES ARE TO BE REMOVED. WISDOT TO SALVAGE THE EXISTING RIMS AND COVERS.
5. ABANDON ALL EXISTING CONDUIT.



LEGEND

- EXISITNG CONTROL CABINET
- EXISTING SIGNAL STANDARD (TYPE 1 BASE)
- (XX) EXISTING SIGNAL POLE (TYPE 2 BASE)
- P EXISTING PEDSTRIAN HEAD
- X EXISTING SIGNAL HEAD (# LENSES)
- EXISTING LUMINAIRE
- EXISTING LOOP DETECTORS TO BE ABANDONED
- EXISTING PULL BOX TO BE REMOVED
- EXISTING CONDUIT TO BE ABANDONED
- EXISTING RAMP GATE TO BE SALVAGED AND REINSTALLED

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL SALVAGE AND REMOVAL PLAN (S49-0590)	SHEET 109	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024001-SR.DWG
LAYOUT NAME - 02B
PLOT DATE : 2/1/2021 7:00 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

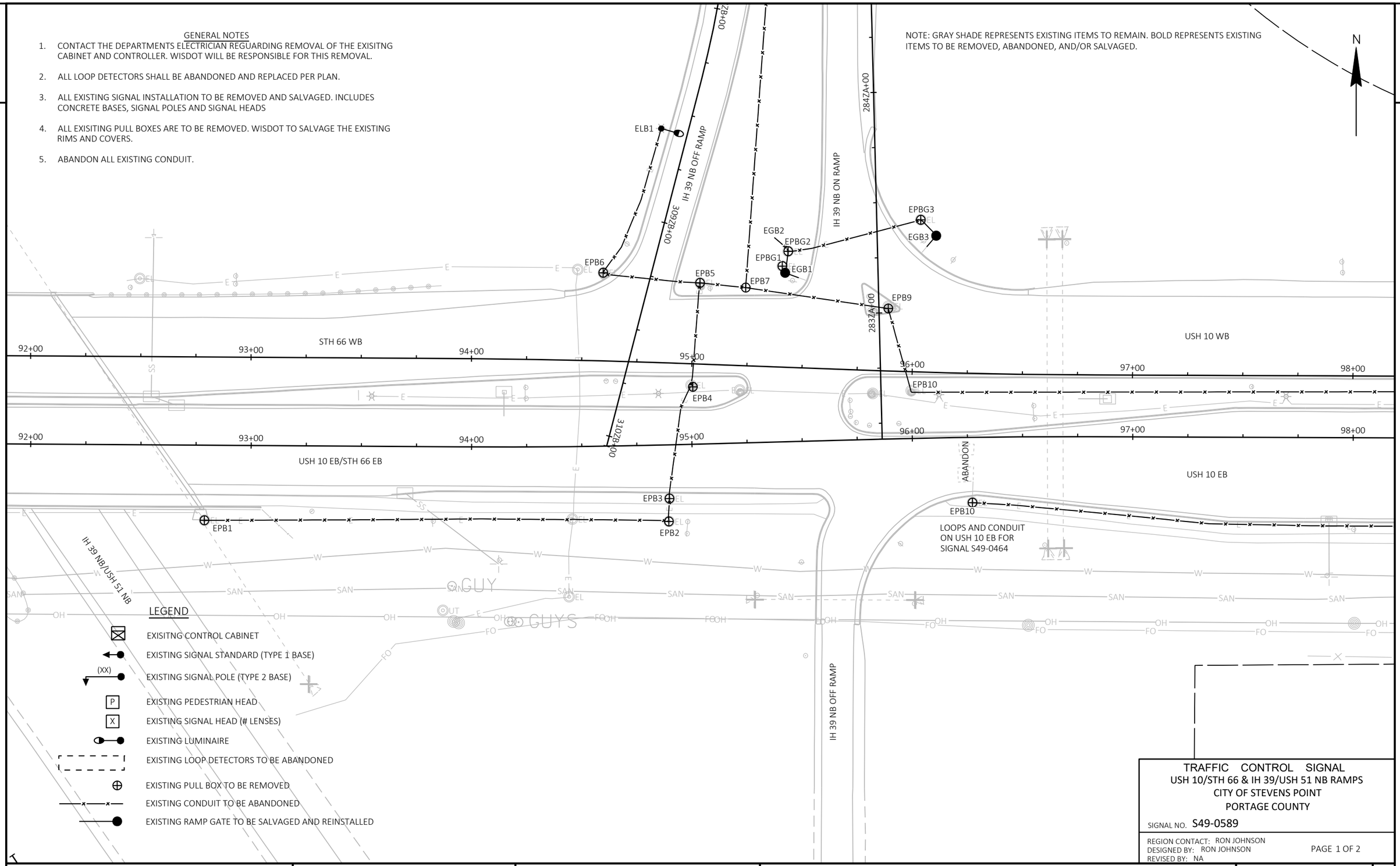
GENERAL NOTES

1. CONTACT THE DEPARTMENTS ELECTRICIAN REGUARDING REMOVAL OF THE EXISITNG CABINET AND CONTROLLER. WISDOT WILL BE RESPONSIBLE FOR THIS REMOVAL.
2. ALL LOOP DETECTORS SHALL BE ABANDONED AND REPLACED PER PLAN.
3. ALL EXISTING SIGNAL INSTALLATION TO BE REMOVED AND SALVAGED. INCLUDES CONCRETE BASES, SIGNAL POLES AND SIGNAL HEADS
4. ALL EXISITING PULL BOXES ARE TO BE REMOVED. WISDOT TO SALVAGE THE EXISTING RIMS AND COVERS.
5. ABANDON ALL EXISTING CONDUIT.

NOTE: GRAY SHADE REPRESENTS EXISTING ITEMS TO REMAIN. BOLD REPRESENTS EXISTING ITEMS TO BE REMOVED, ABANDONED, AND/OR SALVAGED.

N

2



LEGEND

- EXISITNG CONTROL CABINET
- EXISTING SIGNAL STANDARD (TYPE 1 BASE)
- (XX) EXISTING SIGNAL POLE (TYPE 2 BASE)
- P EXISTING PEDESTRIAN HEAD
- X EXISTING SIGNAL HEAD (# LENSES)
- EXISTING LUMINAIRE
- EXISTING LOOP DETECTORS TO BE ABANDONED
- EXISTING PULL BOX TO BE REMOVED
- EXISTING CONDUIT TO BE ABANDONED
- EXISTING RAMP GATE TO BE SALVAGED AND REINSTALLED

TRAFFIC CONTROL SIGNAL
USH 10/STH 66 & IH 39/USH 51 NB RAMPS
CITY OF STEVENS POINT
PORTAGE COUNTY

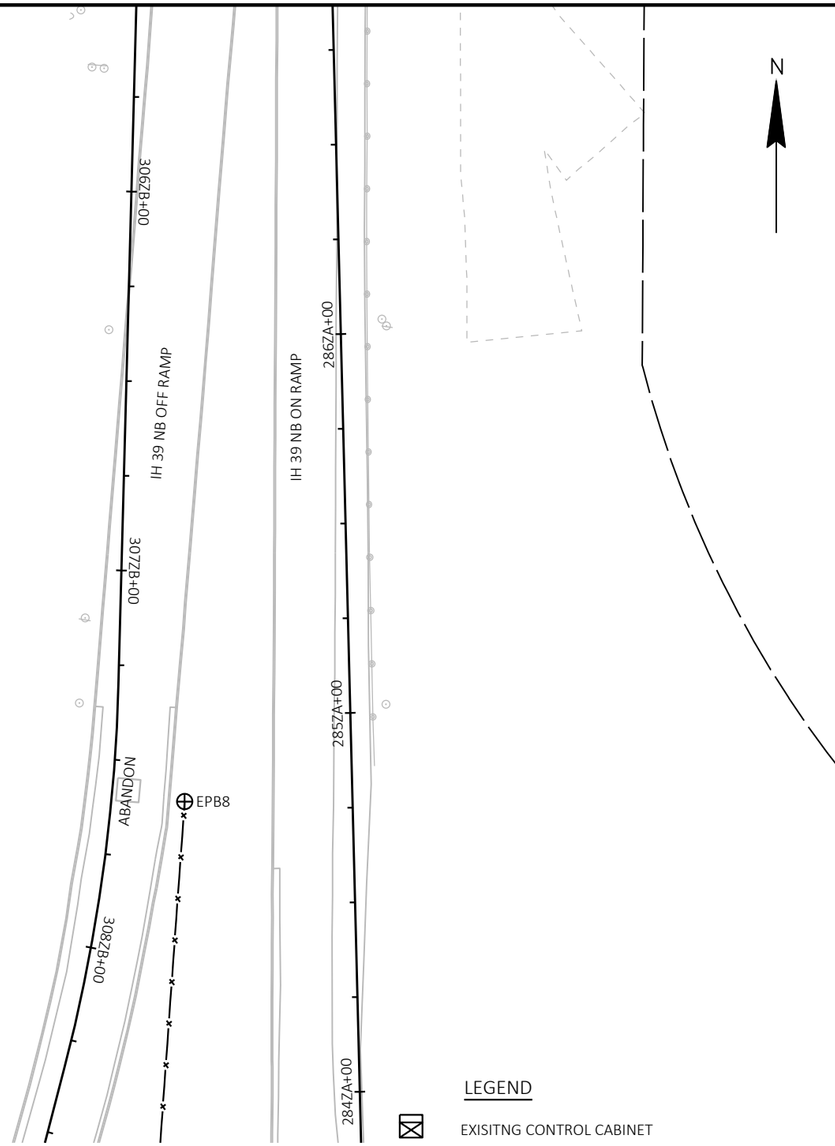
SIGNAL NO. S49-0589

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY: NA

PAGE 1 OF 2

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL SALVAGE AND REMOVAL PLAN	SHEET 110	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024001-SR.DWG
LAYOUT NAME - 03
PLOT DATE : 2/1/2021 7:00 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



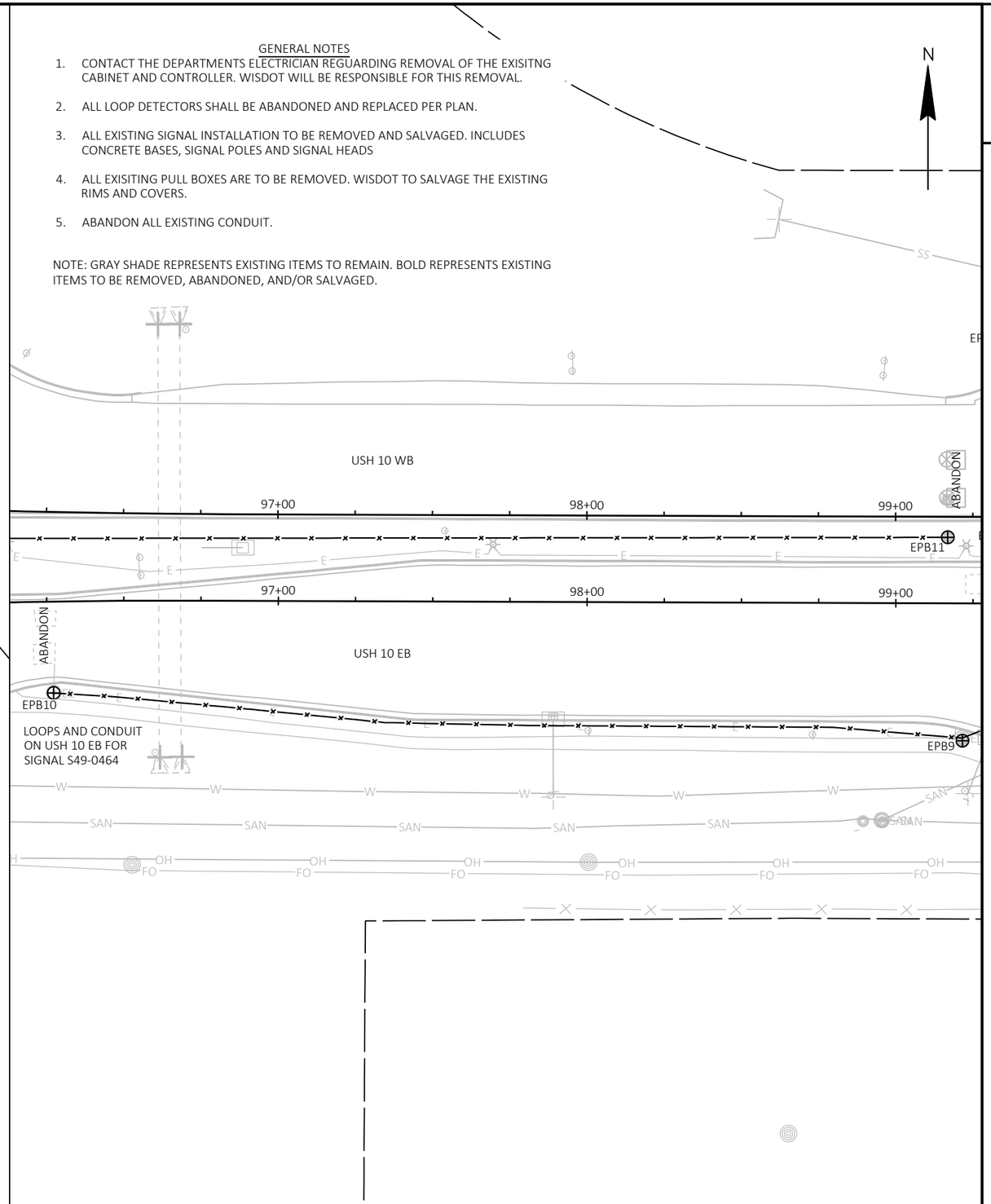
LEGEND

- EXISITNG CONTROL CABINET
- EXISTING SIGNAL STANDARD (TYPE 1 BASE)
- (XX) EXISTING SIGNAL POLE (TYPE 2 BASE)
- P EXISTING PEDESTRIAN HEAD
- X EXISTING SIGNAL HEAD (# LENSES)
- EXISTING LUMINAIRE
- EXISTING LOOP DETECTORS TO BE ABANDONED
- EXISTING PULL BOX TO BE REMOVED
- EXISTING CONDUIT TO BE ABANDONED
- EXISTING RAMP GATE TO BE SALVAGED AND REINSTALLED

GENERAL NOTES

1. CONTACT THE DEPARTMENTS ELECTRICIAN REGUARDING REMOVAL OF THE EXISITNG CABINET AND CONTROLLER. WISDOT WILL BE RESPONSIBLE FOR THIS REMOVAL.
2. ALL LOOP DETECTORS SHALL BE ABANDONED AND REPLACED PER PLAN.
3. ALL EXISTING SIGNAL INSTALLATION TO BE REMOVED AND SALVAGED. INCLUDES CONCRETE BASES, SIGNAL POLES AND SIGNAL HEADS
4. ALL EXISITING PULL BOXES ARE TO BE REMOVED. WISDOT TO SALVAGE THE EXISTING RIMS AND COVERS.
5. ABANDON ALL EXISTING CONDUIT.

NOTE: GRAY SHADE REPRESENTS EXISTING ITEMS TO REMAIN. BOLD REPRESENTS EXISTING ITEMS TO BE REMOVED, ABANDONED, AND/OR SALVAGED.



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GENERAL NOTES

1. CONTACT THE DEPARTMENTS ELECTRICIAN REGUARDING REMOVAL OF THE EXISITNG CABINET AND CONTROLLER. WISDOT WILL BE RESPONSIBLE FOR THIS REMOVAL.
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4. ALL EXISITING PULL BOXES ARE TO BE REMOVED. WISDOT TO SALVAGE THE EXISTING RIMS AND COVERS.
5. ABANDON ALL EXISTING CONDUIT.

NOTE: GRAY SHADE REPRESENTS EXISTING ITEMS TO REMAIN. BOLD REPRESENTS EXISTING ITEMS TO BE REMOVED, ABANDONED, AND/OR SALVAGED.

N

2

USH 10 WB

USH 10 EB

MAPLE BLUFF RD

OLD HWY 18 RD

24MB+00

23MB+00

22MB+00

21MB+00

97+00 98+00 99+00 100+00 101+00 102+00

LOOPS AND CONDUIT ON USH 10 WB FOR SIGNAL S49-0589

ABANDON

EPB1 ECB1 EPB3 ESB1 EPB12 EPB14 ESB6 EPB11 ESB5 ESB2 EPB4 CONCRETE BASE SHORT POLE WITH TRANSFORMER BASE AND PUSH BUTTON ESB4 EPB8 EPB9 EPB10 ESB3 EPB7 EPB5 EPB6 ABANDON

LEGEND

- EXISITNG CONTROL CABINET
- EXISTING SIGNAL STANDARD (TYPE 1 BASE)
- (XX) EXISTING SIGNAL POLE (TYPE 2 BASE)
- P EXISTING PEDESTRIAN HEAD
- X EXISTING SIGNAL HEAD (# LENSES)
- EXISTING LUMINAIRE
- EXISTING LOOP DETECTORS TO BE ABANDONED
- EXISTING PULL BOX TO BE REMOVED
- EXISTING CONDUIT TO BE ABANDONED
- EXISTING RAMP GATE TO BE SALVAGED AND REINSTALLED

TRAFFIC CONTROL SIGNAL
USH 10 & MAPLE BLUFF ROAD/OLD HWY 18 RAOD
CITY OF STEVENS POINT
PORTAGE COUNTY

SIGNAL NO. S49-0464

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY: NA

PAGE 1 OF 2

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL SALVAGE AND REMOVAL PLAN	SHEET 112	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024001-SR.DWG
LAYOUT NAME - 04

PLOT DATE : 2/1/2021 7:00 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

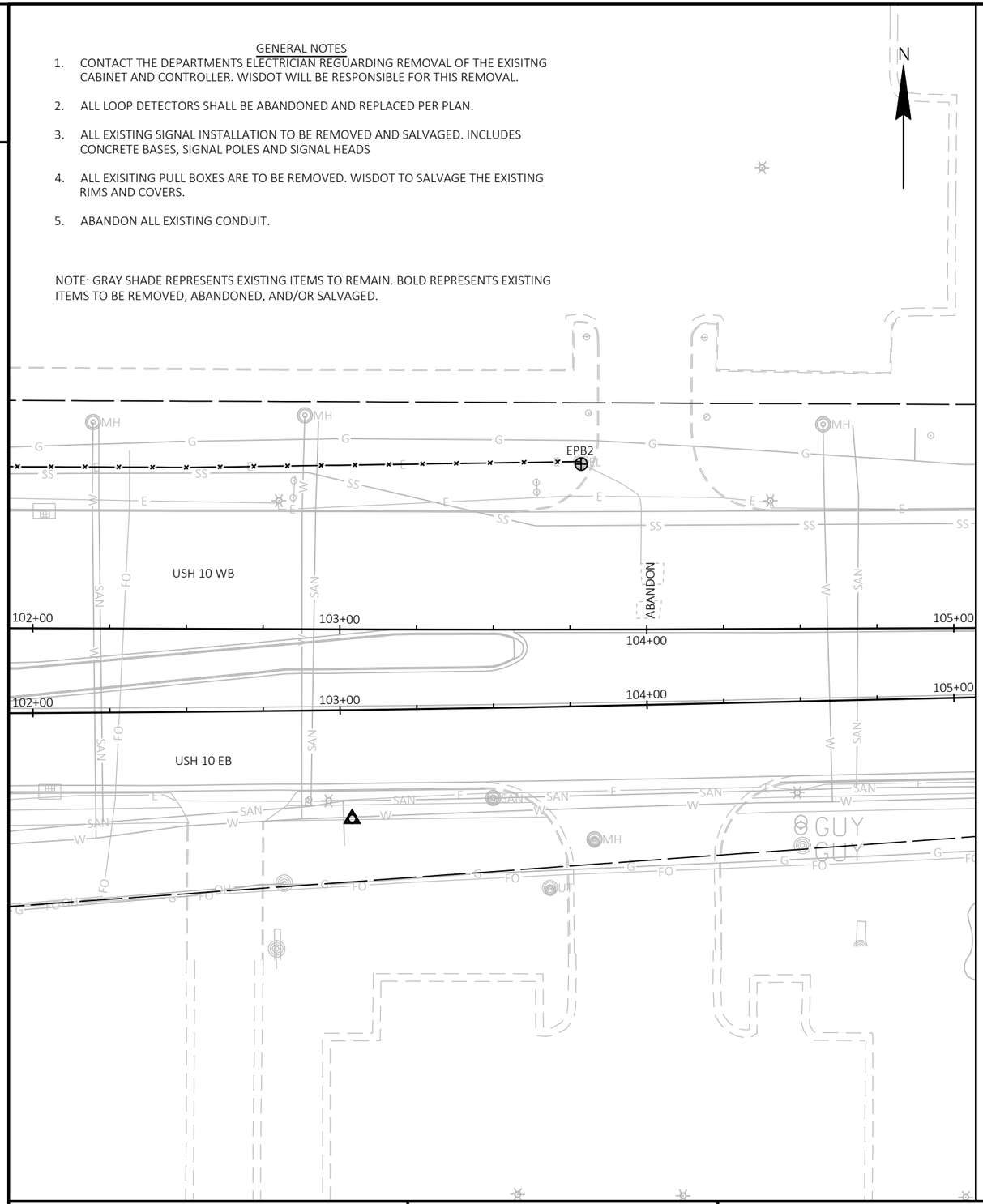
WISDOT/CADDS SHEET 42

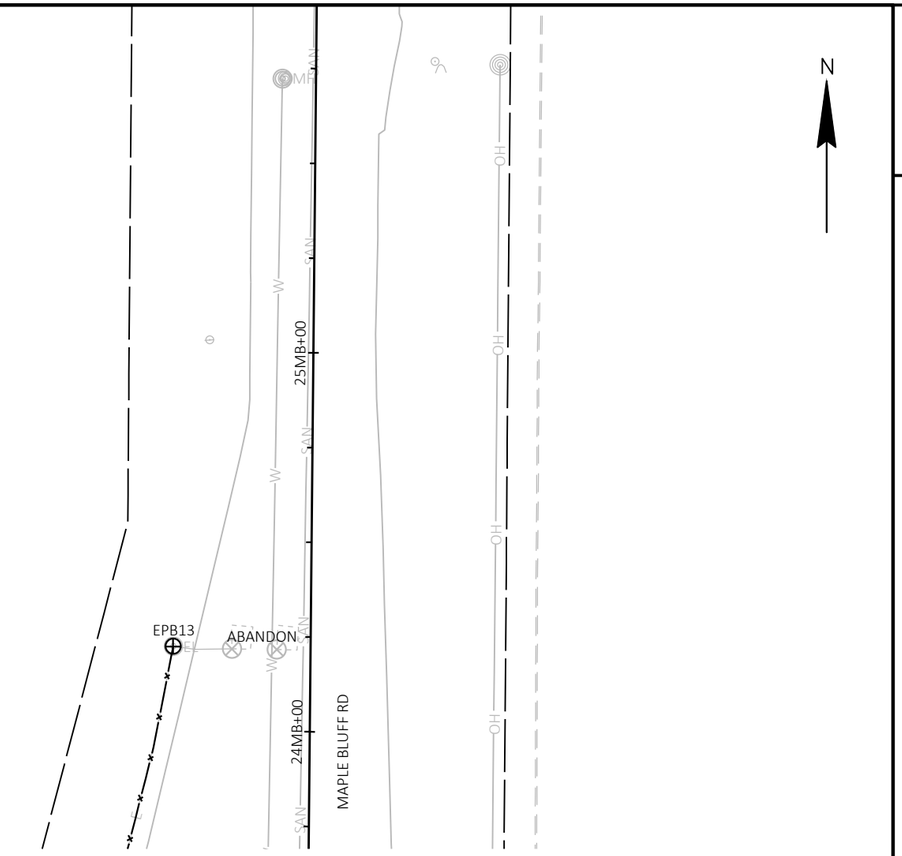
2

GENERAL NOTES

1. CONTACT THE DEPARTMENTS ELECTRICIAN REGUARDING REMOVAL OF THE EXISITNG CABINET AND CONTROLLER. WISDOT WILL BE RESPONSIBLE FOR THIS REMOVAL.
2. ALL LOOP DETECTORS SHALL BE ABANDONED AND REPLACED PER PLAN.
3. ALL EXISTING SIGNAL INSTALLATION TO BE REMOVED AND SALVAGED. INCLUDES CONCRETE BASES, SIGNAL POLES AND SIGNAL HEADS
4. ALL EXISITING PULL BOXES ARE TO BE REMOVED. WISDOT TO SALVAGE THE EXISTING RIMS AND COVERS.
5. ABANDON ALL EXISTING CONDUIT.

NOTE: GRAY SHADE REPRESENTS EXISTING ITEMS TO REMAIN. BOLD REPRESENTS EXISTING ITEMS TO BE REMOVED, ABANDONED, AND/OR SALVAGED.

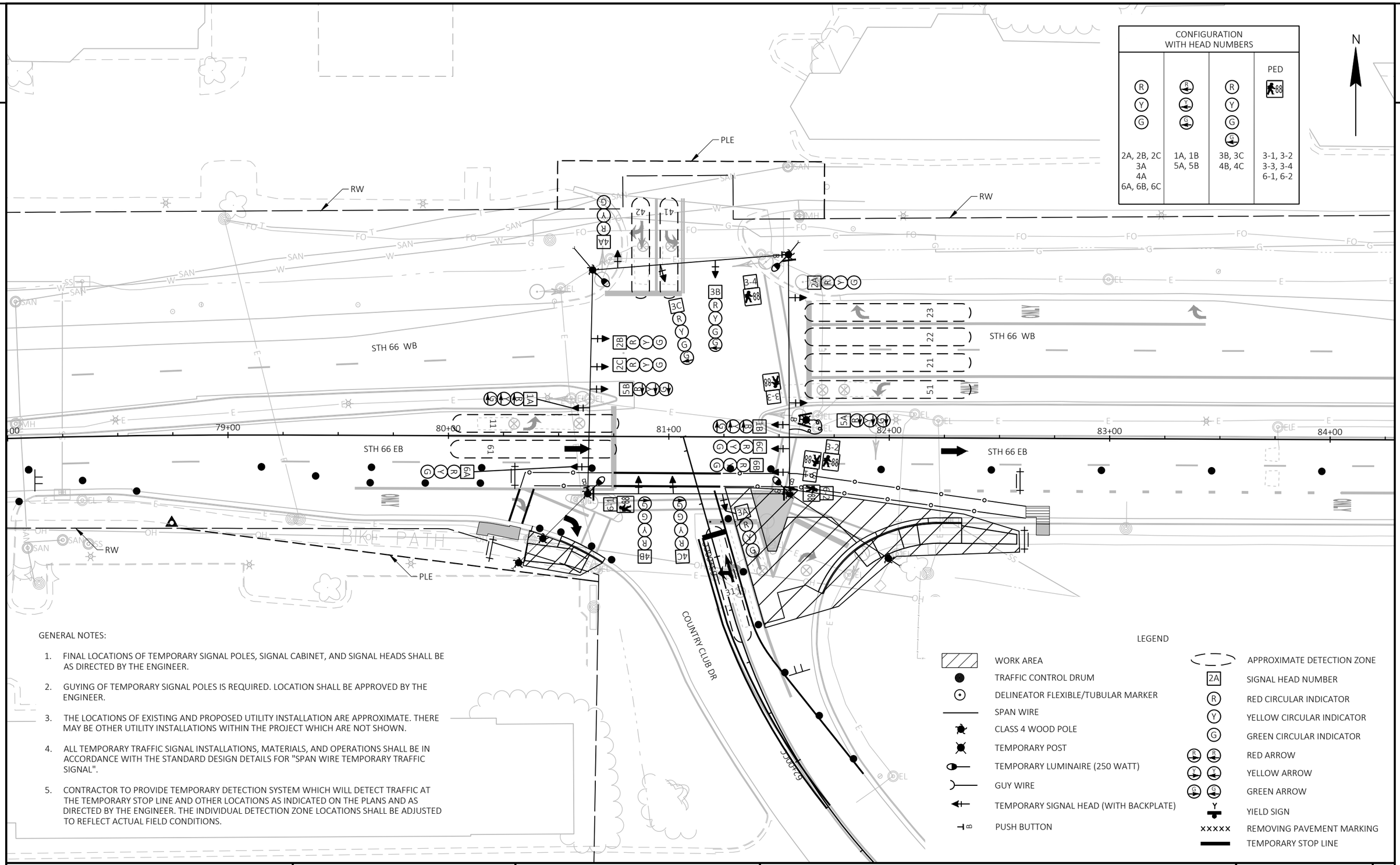




LEGEND

- EXISITNG CONTROL CABINET
- EXISTING SIGNAL STANDARD (TYPE 1 BASE)
- (XX) EXISTING SIGNAL POLE (TYPE 2 BASE)
- P EXISTING PEDESRTAIN HEAD
- X EXISTING SIGNAL HEAD (# LENSES)
- EXISTING LUMINAIRE
- EXISTING LOOP DETECTORS TO BE ABANDONED
- EXISTING PULL BOX TO BE REMOVED
- EXISTING CONDUIT TO BE ABANDONED
- EXISTING RAMP GATE TO BE SALVAGED AND REINSTALLED

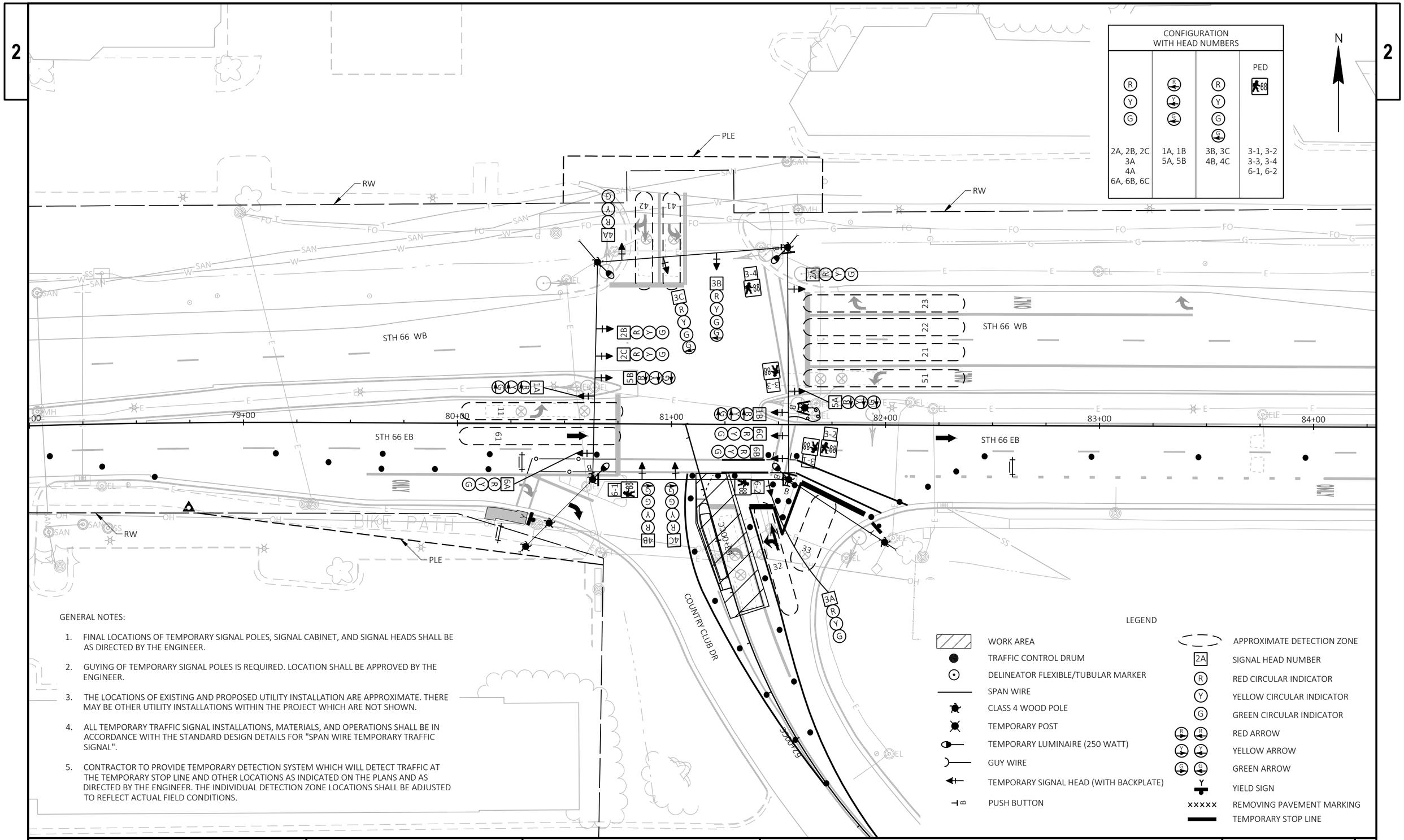
PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL SALVAGE AND REMOVAL PLAN (S49-0464)	SHEET 113	E



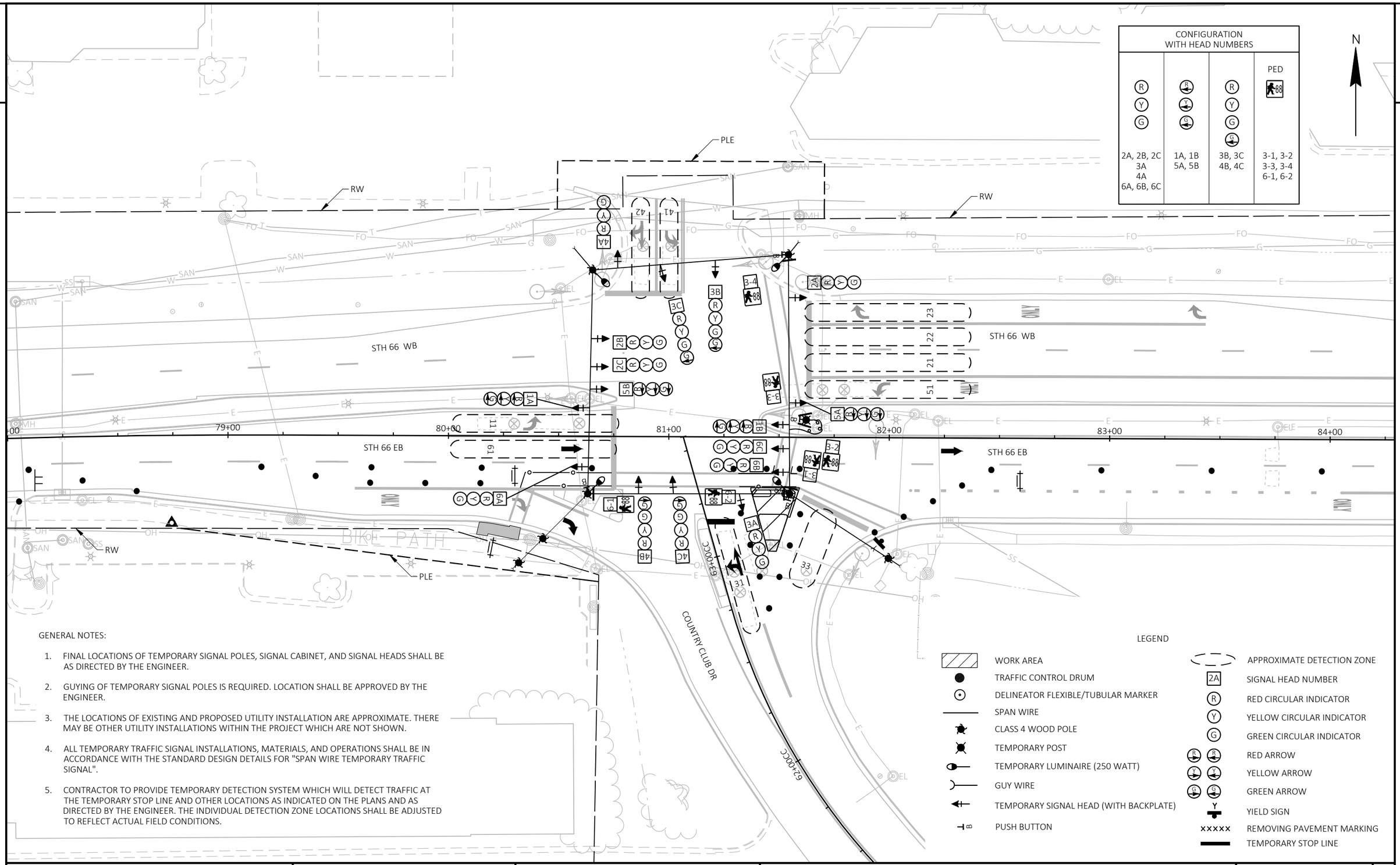
GENERAL NOTES:

1. FINAL LOCATIONS OF TEMPORARY SIGNAL POLES, SIGNAL CABINET, AND SIGNAL HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF TEMPORARY SIGNAL POLES IS REQUIRED. LOCATION SHALL BE APPROVED BY THE ENGINEER.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATION ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. ALL TEMPORARY TRAFFIC SIGNAL INSTALLATIONS, MATERIALS, AND OPERATIONS SHALL BE IN ACCORDANCE WITH THE STANDARD DESIGN DETAILS FOR "SPAN WIRE TEMPORARY TRAFFIC SIGNAL".
5. CONTRACTOR TO PROVIDE TEMPORARY DETECTION SYSTEM WHICH WILL DETECT TRAFFIC AT THE TEMPORARY STOP LINE AND OTHER LOCATIONS AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE INDIVIDUAL DETECTION ZONE LOCATIONS SHALL BE ADJUSTED TO REFLECT ACTUAL FIELD CONDITIONS.

PROJECT NO: 6290-09-71	HWY: IH 39	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 114	E



PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B	SHEET 115	E



GENERAL NOTES:

1. FINAL LOCATIONS OF TEMPORARY SIGNAL POLES, SIGNAL CABINET, AND SIGNAL HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF TEMPORARY SIGNAL POLES IS REQUIRED. LOCATION SHALL BE APPROVED BY THE ENGINEER.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATION ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. ALL TEMPORARY TRAFFIC SIGNAL INSTALLATIONS, MATERIALS, AND OPERATIONS SHALL BE IN ACCORDANCE WITH THE STANDARD DESIGN DETAILS FOR "SPAN WIRE TEMPORARY TRAFFIC SIGNAL".
5. CONTRACTOR TO PROVIDE TEMPORARY DETECTION SYSTEM WHICH WILL DETECT TRAFFIC AT THE TEMPORARY STOP LINE AND OTHER LOCATIONS AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE INDIVIDUAL DETECTION ZONE LOCATIONS SHALL BE ADJUSTED TO REFLECT ACTUAL FIELD CONDITIONS.

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1C	SHEET 116	E

CONFIGURATION WITH HEAD NUMBERS			
R Y G	R Y G	R Y G G	PED
2A, 2B, 2C 3A 4A 6A, 6B, 6C	1A, 1B 5A, 5B	3B, 3C 4B, 4C	3-1, 3-2 3-3, 3-4 6-1, 6-2

N

PLE

RW

STH 66 WB

STH 66 EB

COUNTRY CLUB DR

BIKE PATH

GUY

79+00 80+00 81+00 82+00 83+00 84+00

GENERAL NOTES:

1. FINAL LOCATIONS OF TEMPORARY SIGNAL POLES, SIGNAL CABINET, AND SIGNAL HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF TEMPORARY SIGNAL POLES IS REQUIRED. LOCATION SHALL BE APPROVED BY THE ENGINEER.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATION ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. ALL TEMPORARY TRAFFIC SIGNAL INSTALLATIONS, MATERIALS, AND OPERATIONS SHALL BE IN ACCORDANCE WITH THE STANDARD DESIGN DETAILS FOR "SPAN WIRE TEMPORARY TRAFFIC SIGNAL".
5. CONTRACTOR TO PROVIDE TEMPORARY DETECTION SYSTEM WHICH WILL DETECT TRAFFIC AT THE TEMPORARY STOP LINE AND OTHER LOCATIONS AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE INDIVIDUAL DETECTION ZONE LOCATIONS SHALL BE ADJUSTED TO REFLECT ACTUAL FIELD CONDITIONS.

LEGEND

WORK AREA	APPROXIMATE DETECTION ZONE
TRAFFIC CONTROL DRUM	SIGNAL HEAD NUMBER
DELINEATOR FLEXIBLE/TUBULAR MARKER	RED CIRCULAR INDICATOR
SPAN WIRE	YELLOW CIRCULAR INDICATOR
CLASS 4 WOOD POLE	GREEN CIRCULAR INDICATOR
TEMPORARY POST	RED ARROW
TEMPORARY LUMINAIRE (250 WATT)	YELLOW ARROW
GUY WIRE	GREEN ARROW
TEMPORARY SIGNAL HEAD (WITH BACKPLATE)	YIELD SIGN
PUSH BUTTON	REMOVING PAVEMENT MARKING
	TEMPORARY STOP LINE

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2, 3 & 4	SHEET 117	E

2

CONFIGURATION WITH HEAD NUMBERS			
R Y G	R Y G	R Y G G	PED
2A, 2B, 2C 3A 4A 6A, 6B, 6C	1A, 1B 5A, 5B	3B, 3C 4B, 4C	3-1, 3-2 3-3, 3-4 6-1, 6-2

N

PLE

RW

STH 66 WB

STH 66 EB

79+00EB

80+00EB

81+00EB

82+00EB

83+00EB

84+00EB

COUNTRY CLUB DR

GUY

BIKE PATH

GENERAL NOTES:

1. FINAL LOCATIONS OF TEMPORARY SIGNAL POLES, SIGNAL CABINET, AND SIGNAL HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF TEMPORARY SIGNAL POLES IS REQUIRED. LOCATION SHALL BE APPROVED BY THE ENGINEER.
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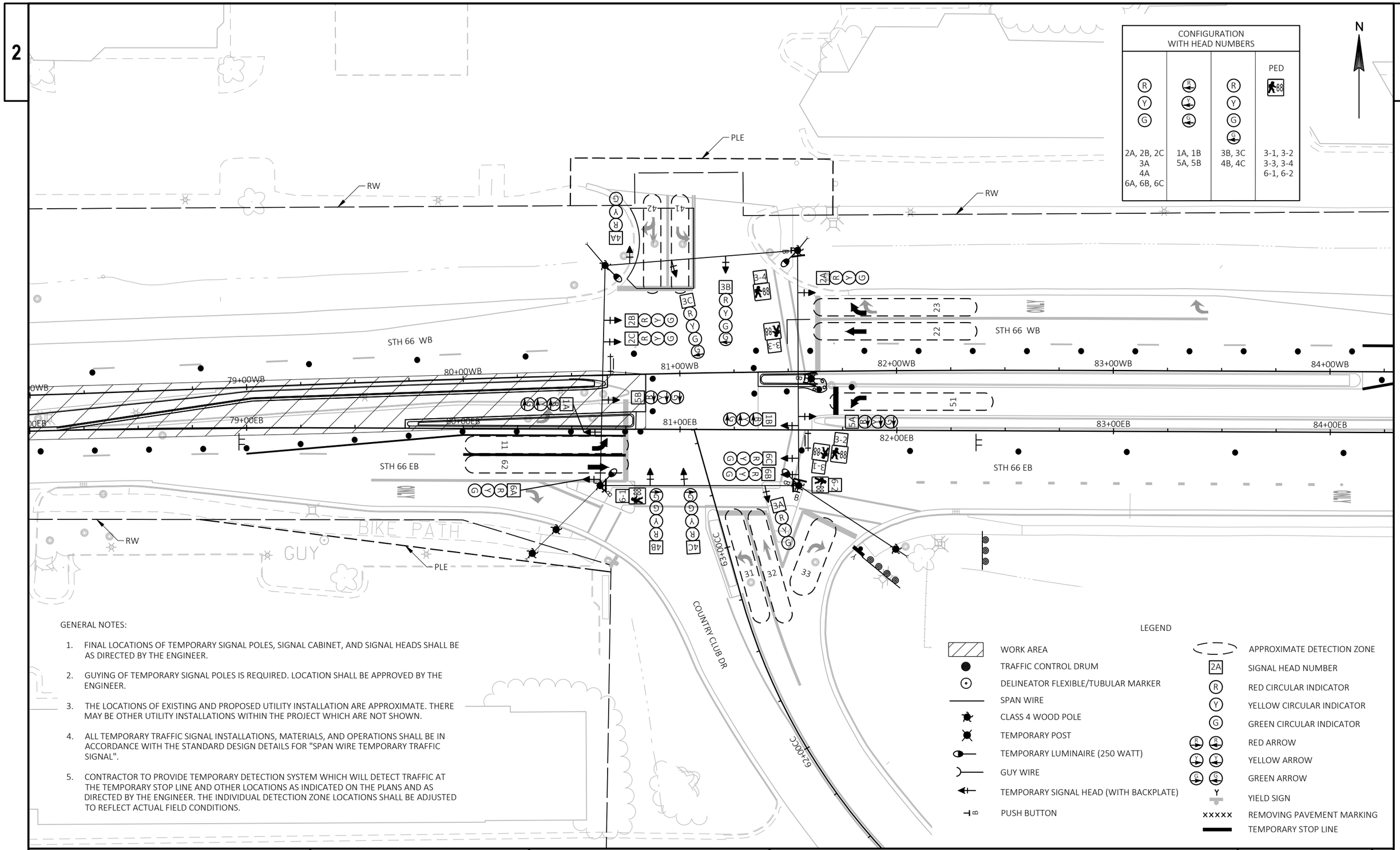
4. ALL TEMPORARY TRAFFIC SIGNAL INSTALLATIONS, MATERIALS, AND OPERATIONS SHALL BE IN ACCORDANCE WITH THE STANDARD DESIGN DETAILS FOR "SPAN WIRE TEMPORARY TRAFFIC SIGNAL".
5. CONTRACTOR TO PROVIDE TEMPORARY DETECTION SYSTEM WHICH WILL DETECT TRAFFIC AT THE TEMPORARY STOP LINE AND OTHER LOCATIONS AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE INDIVIDUAL DETECTION ZONE LOCATIONS SHALL BE ADJUSTED TO REFLECT ACTUAL FIELD CONDITIONS.

LEGEND

WORK AREA	APPROXIMATE DETECTION ZONE
TRAFFIC CONTROL DRUM	SIGNAL HEAD NUMBER
DELINEATOR FLEXIBLE/TUBULAR MARKER	RED CIRCULAR INDICATOR
SPAN WIRE	YELLOW CIRCULAR INDICATOR
CLASS 4 WOOD POLE	GREEN CIRCULAR INDICATOR
TEMPORARY POST	RED ARROW
TEMPORARY LUMINAIRE (250 WATT)	YELLOW ARROW
GUY WIRE	GREEN ARROW
TEMPORARY SIGNAL HEAD (WITH BACKPLATE)	YIELD SIGN
PUSH BUTTON	REMOVING PAVEMENT MARKING
	TEMPORARY STOP LINE

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5	SHEET 118	E



PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5A	SHEET 119	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024105A-ST.DWG
LAYOUT NAME - 01
PLOT DATE : 3/2/2021 11:28 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########

2

CONFIGURATION WITH HEAD NUMBERS			
R Y G	R Y G	R Y G G	PED
2A, 2B, 2C 3A 4A 6A, 6B, 6C	1A, 1B 5A, 5B	3B, 3C 4B, 4C	3-1, 3-2 3-3, 3-4 6-1, 6-2

N

PLE

RW

RW

STH 66 WB

STH 66 WB

STH 66 EB

STH 66 EB

79+00WB

80+00WB

81+00WB

82+00WB

83+00WB

84+00WB

79+00EB

80+00EB

81+00EB

83+00EB

84+00EB

63+00CC

62+00CC

COUNTRY CLUB DR

BIKE PATH

GUY

RW

PLE

ONLY

ONLY

GENERAL NOTES:

1. FINAL LOCATIONS OF TEMPORARY SIGNAL POLES, SIGNAL CABINET, AND SIGNAL HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF TEMPORARY SIGNAL POLES IS REQUIRED. LOCATION SHALL BE APPROVED BY THE ENGINEER.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATION ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. ALL TEMPORARY TRAFFIC SIGNAL INSTALLATIONS, MATERIALS, AND OPERATIONS SHALL BE IN ACCORDANCE WITH THE STANDARD DESIGN DETAILS FOR "SPAN WIRE TEMPORARY TRAFFIC SIGNAL".
5. CONTRACTOR TO PROVIDE TEMPORARY DETECTION SYSTEM WHICH WILL DETECT TRAFFIC AT THE TEMPORARY STOP LINE AND OTHER LOCATIONS AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE INDIVIDUAL DETECTION ZONE LOCATIONS SHALL BE ADJUSTED TO REFLECT ACTUAL FIELD CONDITIONS.

LEGEND

WORK AREA	APPROXIMATE DETECTION ZONE
TRAFFIC CONTROL DRUM	SIGNAL HEAD NUMBER
DELINEATOR FLEXIBLE/TUBULAR MARKER	RED CIRCULAR INDICATOR
SPAN WIRE	YELLOW CIRCULAR INDICATOR
CLASS 4 WOOD POLE	GREEN CIRCULAR INDICATOR
TEMPORARY POST	RED ARROW
TEMPORARY LUMINAIRE (250 WATT)	YELLOW ARROW
GUY WIRE	GREEN ARROW
TEMPORARY SIGNAL HEAD (WITH BACKPLATE)	YIELD SIGN
PUSH BUTTON	REMOVING PAVEMENT MARKING
	TEMPORARY STOP LINE

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5B	SHEET 120	E

2

CONFIGURATION WITH HEAD NUMBERS			
R Y G	R Y G	R Y G G	PED
2A, 2B, 2C 3A 4A 6A, 6B, 6C	1A, 1B 5A, 5B	3B, 3C 4B, 4C	3-1, 3-2 3-3, 3-4 6-1, 6-2

N

PLE

RW

RW

STH 66 WB

STH 66 WB

79+00WB

80+00WB

81+00WB

82+00WB

83+00WB

84+00WB

79+00EB

80+00EB

81+00EB

83+00EB

84+00EB

STH 66 EB

STH 66 EB

ONLY

ONLY

BIKE PATH

GUY

RW

PLE

COUNTRY CLUB DR

63+00CC

62+00CC

11

21

51

61

62

31

32

33

GENERAL NOTES:

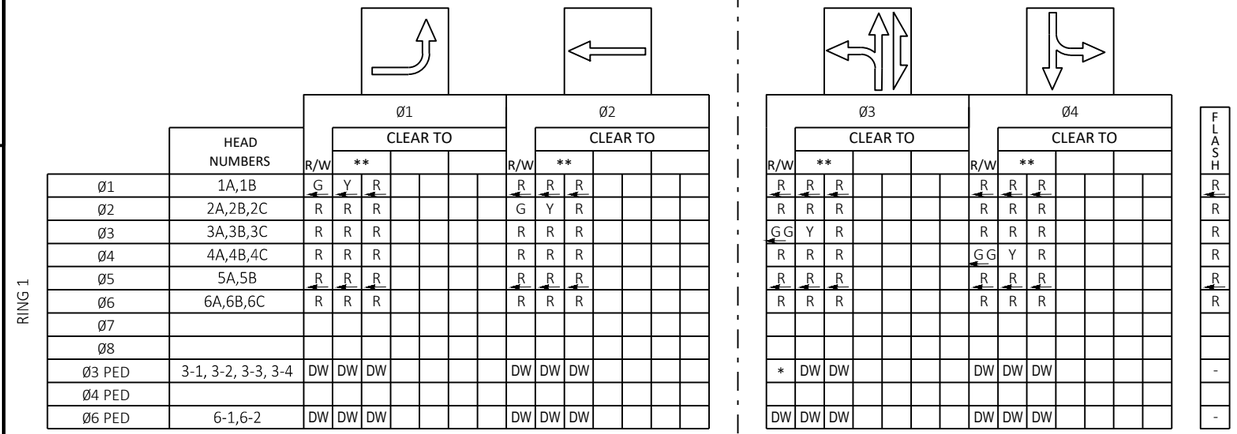
1. FINAL LOCATIONS OF TEMPORARY SIGNAL POLES, SIGNAL CABINET, AND SIGNAL HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF TEMPORARY SIGNAL POLES IS REQUIRED. LOCATION SHALL BE APPROVED BY THE ENGINEER.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATION ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. ALL TEMPORARY TRAFFIC SIGNAL INSTALLATIONS, MATERIALS, AND OPERATIONS SHALL BE IN ACCORDANCE WITH THE STANDARD DESIGN DETAILS FOR "SPAN WIRE TEMPORARY TRAFFIC SIGNAL".
5. CONTRACTOR TO PROVIDE TEMPORARY DETECTION SYSTEM WHICH WILL DETECT TRAFFIC AT THE TEMPORARY STOP LINE AND OTHER LOCATIONS AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE INDIVIDUAL DETECTION ZONE LOCATIONS SHALL BE ADJUSTED TO REFLECT ACTUAL FIELD CONDITIONS.

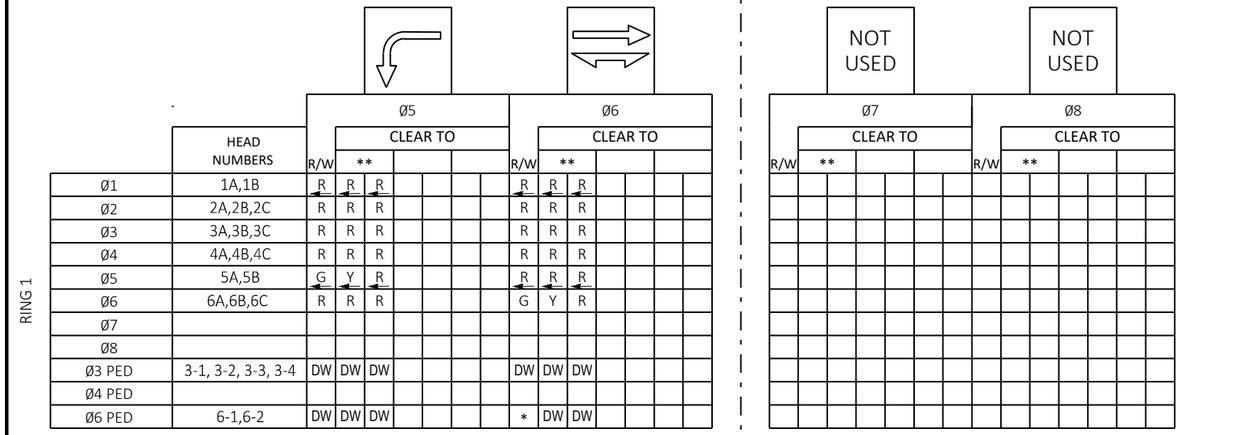
LEGEND

WORK AREA	APPROXIMATE DETECTION ZONE
TRAFFIC CONTROL DRUM	SIGNAL HEAD NUMBER
DELINEATOR FLEXIBLE/TUBULAR MARKER	RED CIRCULAR INDICATOR
SPAN WIRE	YELLOW CIRCULAR INDICATOR
CLASS 4 WOOD POLE	GREEN CIRCULAR INDICATOR
TEMPORARY POST	RED ARROW
TEMPORARY LUMINAIRE (250 WATT)	YELLOW ARROW
GUY WIRE	GREEN ARROW
TEMPORARY SIGNAL HEAD (WITH BACKPLATE)	YIELD SIGN
PUSH BUTTON	REMOVING PAVEMENT MARKING
	TEMPORARY STOP LINE

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5C	SHEET 121	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024105C-ST.DWG
LAYOUT NAME - 01
PLOT DATE : 3/2/2021 11:38 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42





BARRIER

N

**CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)
*WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	6	2, 3, 4, 5
2	5, 6	1, 3, 4
3	NONE	1, 2, 4, 5, 6
4	NONE	1, 2, 3, 5, 6
5	2	1, 3, 4, 6
6	1, 2	3, 4, 5
7		
8		

DETECTOR LOGIC (TEMPORARY CAMERAS)

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY					
11		X			1	1			
21				X		2			
22				X		2			
23				X		2			
31		X			3	3			
32		X			3	3			
33		X			3	3		X	
41		X			4	4			
42		X			4	4		X	
51		X			5	5			
61				X		6			
62				X		6			

CONTROLLER LOGIC

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

OVERLAPS

O.L."A"	NONE
O.L."B"	NONE
O.L."C"	NONE
O.L."D"	NONE

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

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

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

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1)
3. WHEN OPPOSING THROUGH PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

TEMPORARY TRAFFIC SIGNAL
STH 66 & COUNTRY CLUB DR
CITY OF STEVENS POINT
PORTAGE COUNTY

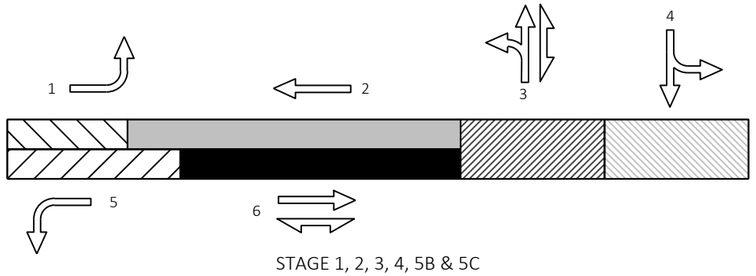
SIGNAL NO. NA

CONTROLLER TYPE: TEMPORARY

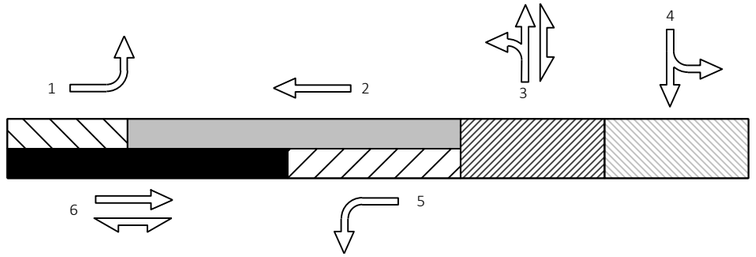
PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	SEQUENCE OF OPERATIONS - STAGE 1, 2, 3, 4 & 5	SHEET 122	E

2

ALLOWED PHASING (PER CONSTRUCTION STAGE)



STAGE 1, 2, 3, 4, 5B & 5C



STAGE 5, 5A

*LEAD-LAG LEFT TURNS EAST-WEST REQUIRED
DUE TO CONFLICTING OVERLAPPING LEFT TURNS

ACTIVATED TIMING PARAMETERS - PER PHASE (SECONDS)

	PHASE							
	1	2	3	4	5	6	7	8
MIN GREEN	8	15	10	8	8	15		
PASSAGE	2.0	4.0	3.0	3.0	2.0	4.0		
MAX 1	15	65	35	25	30	65		
MAX 2								
YELLOW	3.5	4.0	3.5	3.5	3.5	4.0		
RED	1.0	2.5	3.5	3.5	1.0	2.5		
WALK			7			7		
DON'T WALK			32			25		
TBR	7	20	10	8	10	20		
TTR	7	20	10	8	10	20		
MIN GAP	1.0	2.0	1.0	2.0	1.0	2.0		

2

CONFIGURATION WITH HEAD NUMBERS				
R Y G	R Y G	R Y G	R Y G G	PED
2A, 2B, 2C 3A 4A 6A, 6B, 6C	OLA-1 OLA-2 OLB-1 OLB-2	1A, 1B 5A, 5B	3B, 3C 4B, 4C	3-1, 3-2 6-1, 6-2 6-3, 6-4

N

STOP HERE ON RED
R10-6
24"X36"

RW

MAPLE BLUFF RD

OLB-1

OLB-2

OLB

41

42

24+00

23+00

INSTALL DRUMS ALONG ISLAND
TO DELINEATE TEMPORARY SIGNAL POLE

USH 10 WB

ONLY

97+00

98+00

99+00

100+00

101+00

102+00

103+00

USH 10 EB

11

62

63

22+00

OLA-2

OLA-1

OLA

STOP HERE ON RED
R10-6
24"X36"

OLD HWY 18 RD

31

32

21+00

GUYS

GENERAL NOTES:

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LEGEND

- WORK AREA
- TRAFFIC CONTROL DRUM
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SPAN WIRE
- CLASS 4 WOOD POLE
- TEMPORARY POST
- TEMPORARY LUMINAIRE (250 WATT)
- GUY WIRE
- TEMPORARY SIGNAL HEAD (WITH BACKPLATE)
- PUSH BUTTON
- APPROXIMATE DETECTION ZONE
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- YIELD SIGN
- REMOVING PAVEMENT MARKING
- TEMPORARY STOP LINE

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 124	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024102-ST.DWG
LAYOUT NAME - 02
PLOT DATE : 3/2/2021 9:41 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

CONFIGURATION WITH HEAD NUMBERS				
R Y G	R Y G	R Y G	R Y G G	PED
2A, 2B, 2C 3A 4A 6A, 6B, 6C	OLA-1 OLA-2 OLB-1 OLB-2	1A, 1B 5A, 5B	3B, 3C 4B, 4C	3-1, 3-2 6-1, 6-2 6-3, 6-4

N

STOP HERE ON RED
R10-6
24"X36"

RW

MAPLE BLUFF RD

24+00MB

23+00MB

22+00MB

21+00MB

OLD HWY 18 RD

USH 10 WB

USH 10 EB

97+00EX

98+00EX

99+00EX

100+00EX

101+00EX

102+00EX

103+00EX

GENERAL NOTES:

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LEGEND

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TRAFFIC CONTROL DRUM	SIGNAL HEAD NUMBER
DELINEATOR FLEXIBLE/TUBULAR MARKER	RED CIRCULAR INDICATOR
SPAN WIRE	YELLOW CIRCULAR INDICATOR
CLASS 4 WOOD POLE	GREEN CIRCULAR INDICATOR
TEMPORARY POST	RED ARROW
TEMPORARY LUMINAIRE (250 WATT)	YELLOW ARROW
GUY WIRE	GREEN ARROW
TEMPORARY SIGNAL HEAD (WITH BACKPLATE)	YIELD SIGN
PUSH BUTTON	REMOVING PAVEMENT MARKING
	TEMPORARY STOP LINE

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET 125	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024103-ST.DWG
LAYOUT NAME - 01
PLOT DATE : 3/2/2021 10:08 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

CONFIGURATION WITH HEAD NUMBERS				
R Y G	R Y G	R Y G	R Y G G	PED
2A, 2B, 2C 3A 4A 6A, 6B, 6C	OLA-1 OLA-2 OLB-1 OLB-2	1A, 1B 5A, 5B	3B, 3C 4B, 4C	3-1, 3-2 6-1, 6-2 6-3, 6-4

N

GENERAL NOTES:

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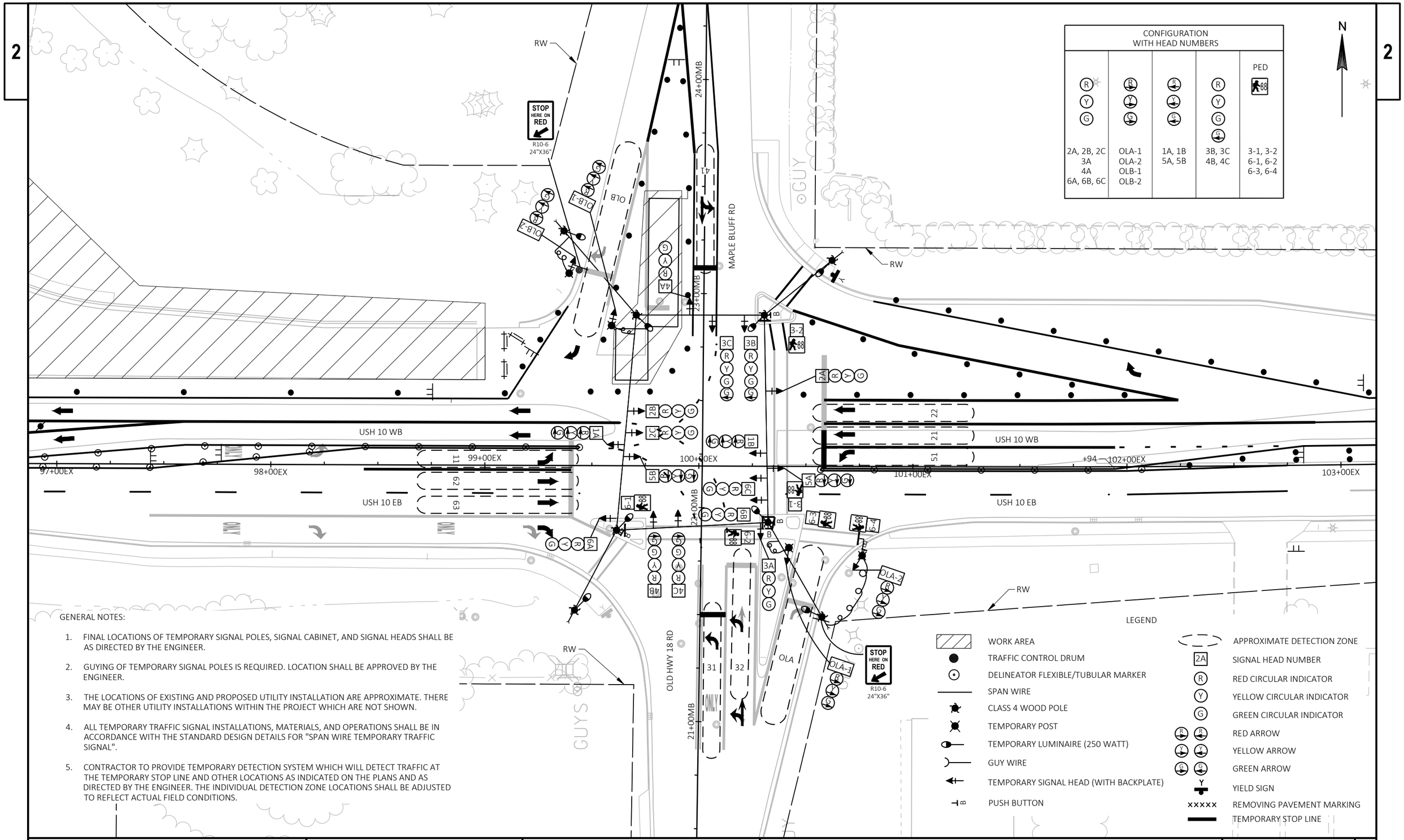
LEGEND

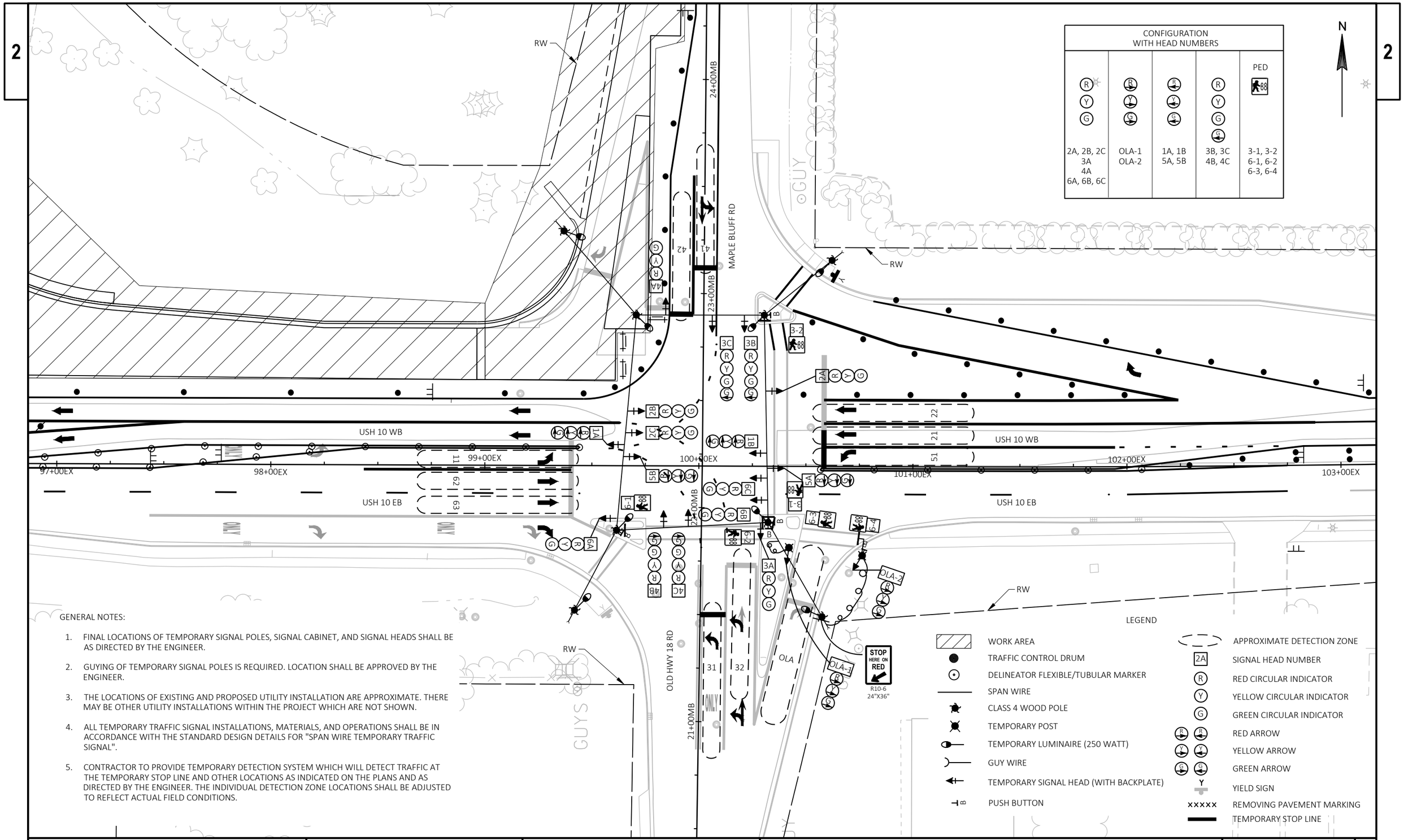
- WORK AREA
- TRAFFIC CONTROL DRUM
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SPAN WIRE
- CLASS 4 WOOD POLE
- TEMPORARY POST
- TEMPORARY LUMINAIRE (250 WATT)
- GUY WIRE
- TEMPORARY SIGNAL HEAD (WITH BACKPLATE)
- PUSH BUTTON
- APPROXIMATE DETECTION ZONE
- 2A SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- Y YIELD SIGN
- XXXXX REMOVING PAVEMENT MARKING
- TEMPORARY STOP LINE

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3A	SHEET 126	E

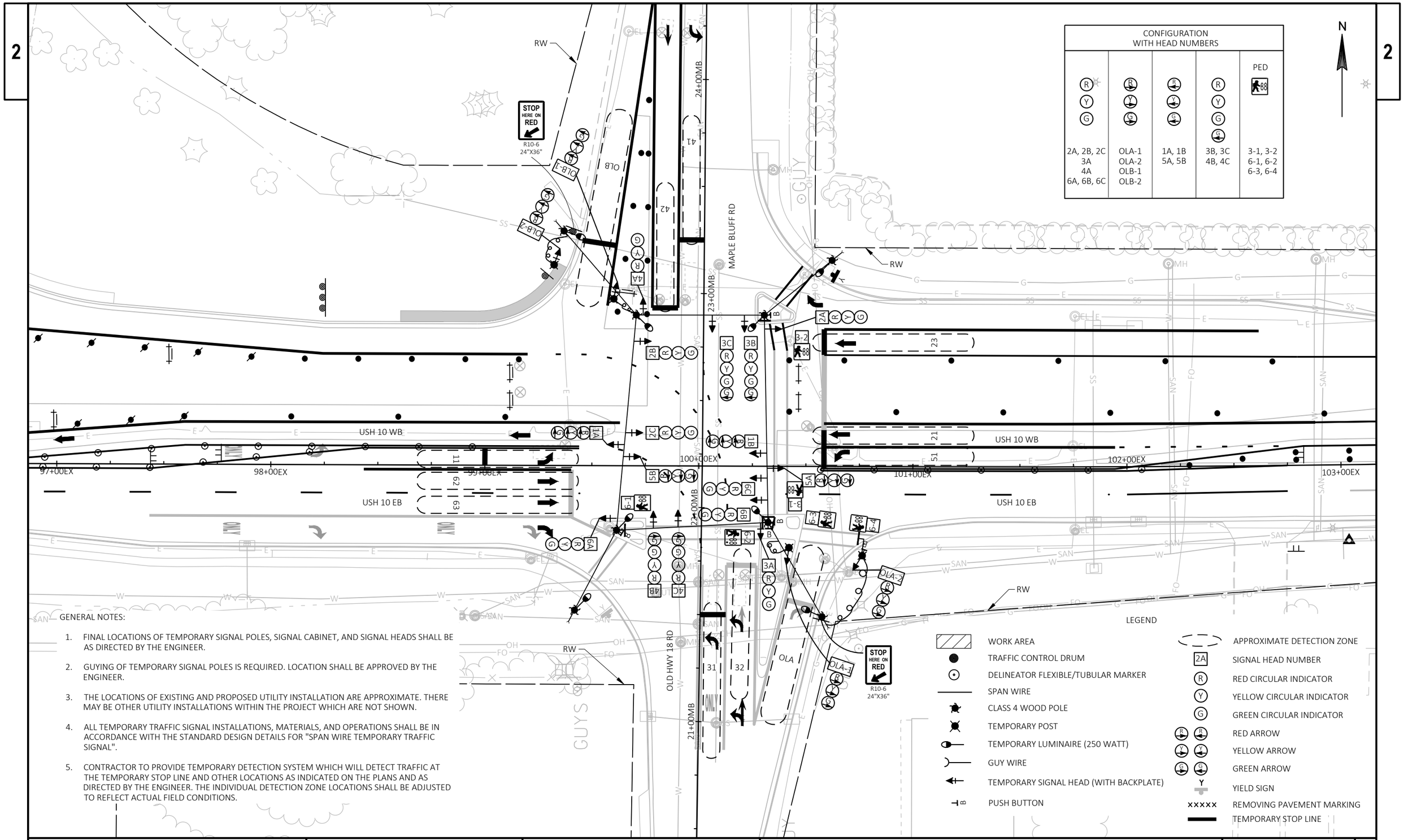


PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3B	SHEET 127	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024103B-ST.DWG
LAYOUT NAME - 01
PLOT DATE : 3/2/2021 9:51 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3C	SHEET 128	E



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PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN -STAGE 3D & E	SHEET 129	E

2

CONFIGURATION WITH HEAD NUMBERS				
R Y G	R Y G	R Y G	R Y G G	PED
2A, 2B, 2C 3A 4A 6A, 6B, 6C	OLA-1 OLA-2 OLB-1 OLB-2	1A, 1B 5A, 5B	3B, 3C 4B, 4C	3-1, 3-2 6-1, 6-2 6-3, 6-4

N

STOP HERE ON RED
R10-6
24"X36"

RW

MAPLE BLUFF RD

USH 10 WB

USH 10 EB

OLD HWY 18 RD

GUYS

97+00WB
98+00WB
99+00WB
100+00WB
101+00WB
102+00WB
103+00WB
97+00EX
98+00EX
99+00EX
100+00EX
101+00EX
102+00EX
103+00EX
24+00MB
23+00MB
22+00MB
21+00MB

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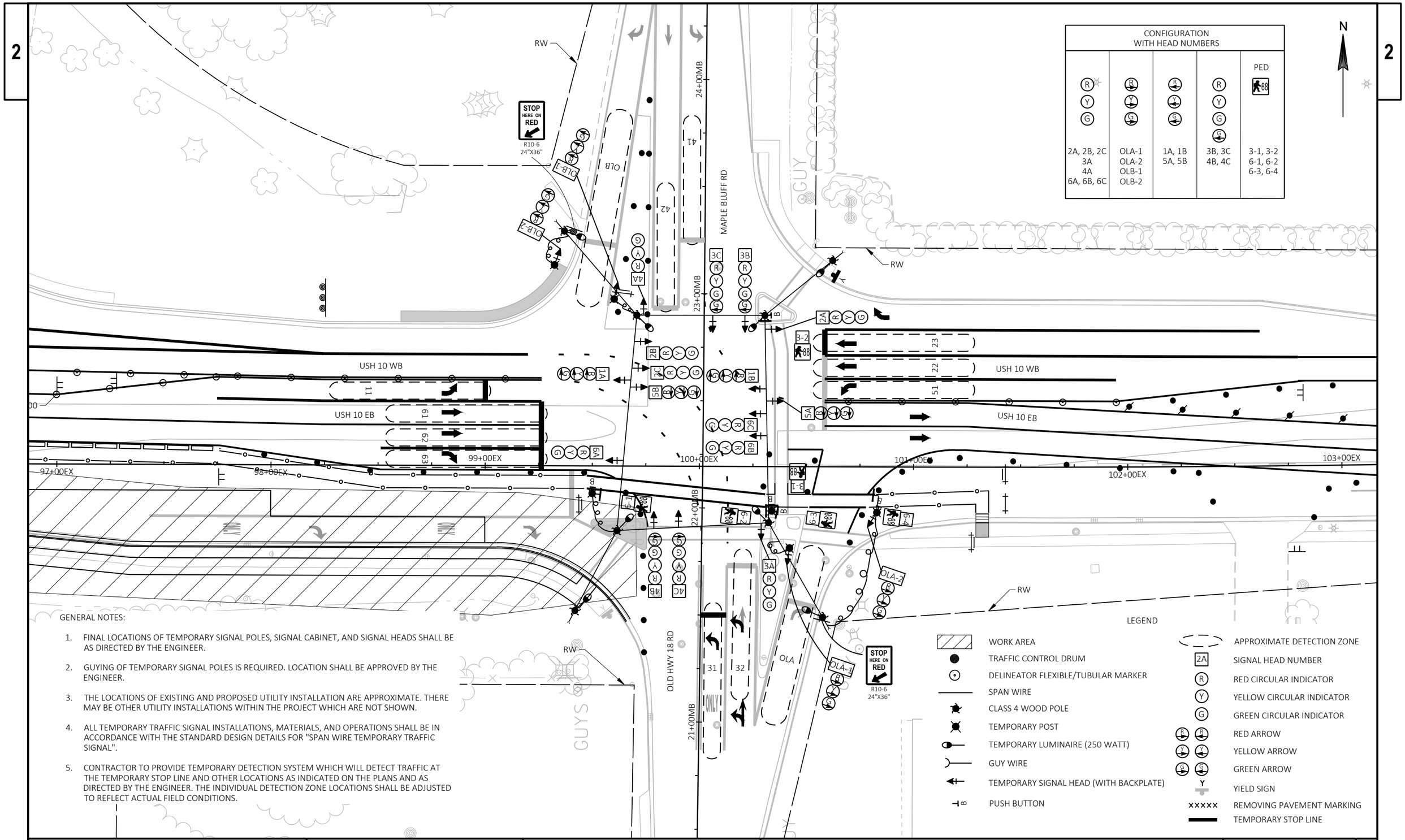
SPAN WIRE	YELLOW CIRCULAR INDICATOR
CLASS 4 WOOD POLE	GREEN CIRCULAR INDICATOR
TEMPORARY POST	RED ARROW
TEMPORARY LUMINAIRE (250 WATT)	YELLOW ARROW
GUY WIRE	GREEN ARROW
TEMPORARY SIGNAL HEAD (WITH BACKPLATE)	YIELD SIGN
PUSH BUTTON	REMOVING PAVEMENT MARKING
	TEMPORARY STOP LINE

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3F	SHEET 130	E



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PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4	SHEET 131 E

CONFIGURATION WITH HEAD NUMBERS				
R Y G	R Y G	R Y G	R Y G G	PED
2A, 2B, 2C 3A 4A 6A, 6B, 6C	OLB-1 OLB-2	1A, 1B 5A, 5B	3B, 3C 4B, 4C	3-1, 3-2 6-1, 6-2

N

STOP HERE ON RED
R10-6
24"X36"

RW

MAPLE BLUFF RD

USH 10 WB

USH 10 EB

OLB

OLB-1

OLB-2

97+00EX

98+00EX

99+00EX

100+00EX

101+00EX

102+00EX

103+00EX

22+00MB

23+00MB

24+00MB

21+00MB

OLD HWY 18 RD

GUYS

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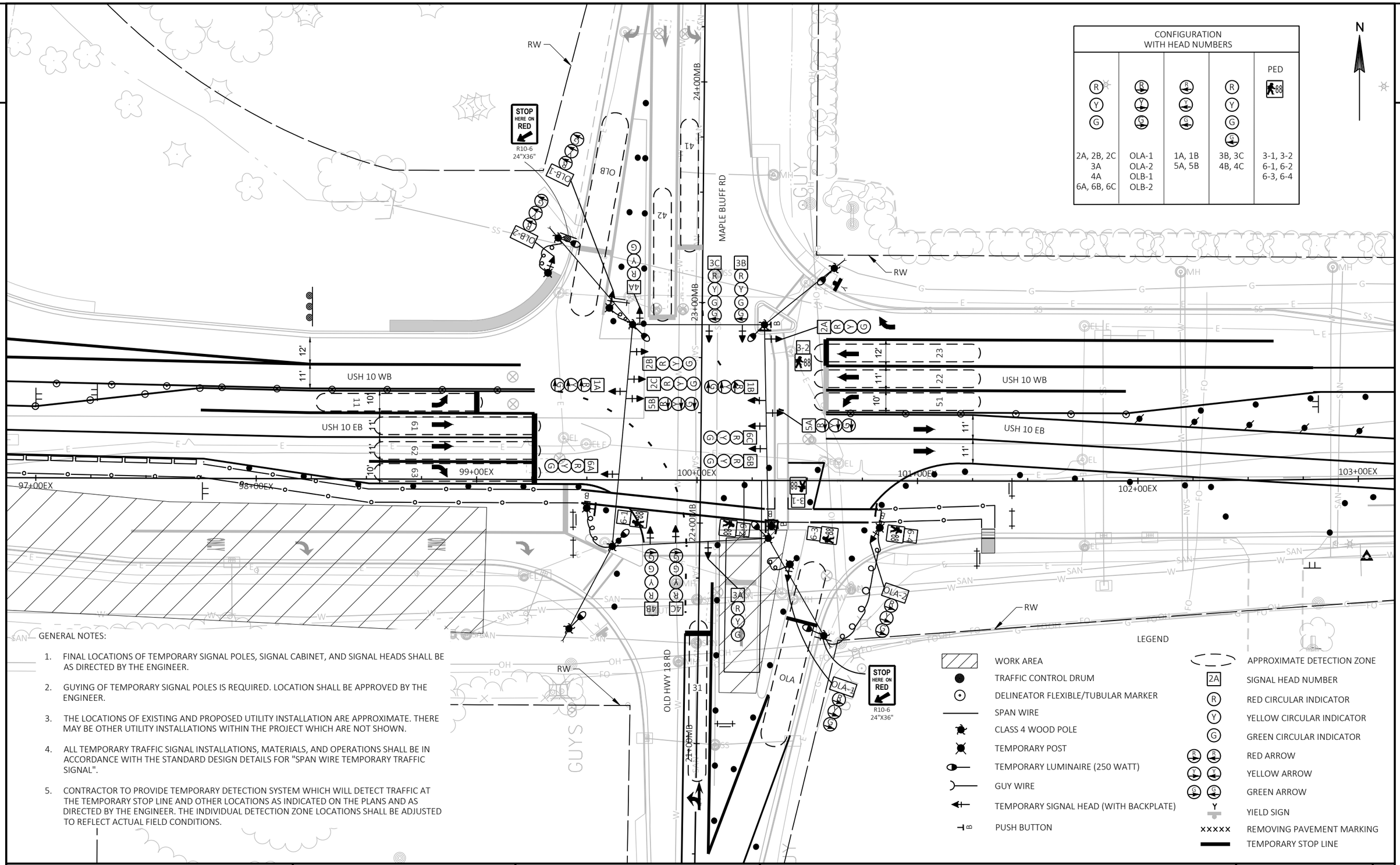
5. CONTRACTOR TO PROVIDE TEMPORARY DETECTION SYSTEM WHICH WILL DETECT TRAFFIC AT THE TEMPORARY STOP LINE AND OTHER LOCATIONS AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE INDIVIDUAL DETECTION ZONE LOCATIONS SHALL BE ADJUSTED TO REFLECT ACTUAL FIELD CONDITIONS.

LEGEND

WORK AREA	APPROXIMATE DETECTION ZONE
TRAFFIC CONTROL DRUM	SIGNAL HEAD NUMBER
DELINEATOR FLEXIBLE/TUBULAR MARKER	RED CIRCULAR INDICATOR
SPAN WIRE	YELLOW CIRCULAR INDICATOR
CLASS 4 WOOD POLE	GREEN CIRCULAR INDICATOR
TEMPORARY POST	RED ARROW
TEMPORARY LUMINAIRE (250 WATT)	YELLOW ARROW
GUY WIRE	GREEN ARROW
TEMPORARY SIGNAL HEAD (WITH BACKPLATE)	YIELD SIGN
PUSH BUTTON	REMOVING PAVEMENT MARKING
	TEMPORARY STOP LINE

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4A	SHEET 132	E



GENERAL NOTES:

1. FINAL LOCATIONS OF TEMPORARY SIGNAL POLES, SIGNAL CABINET, AND SIGNAL HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF TEMPORARY SIGNAL POLES IS REQUIRED. LOCATION SHALL BE APPROVED BY THE ENGINEER.
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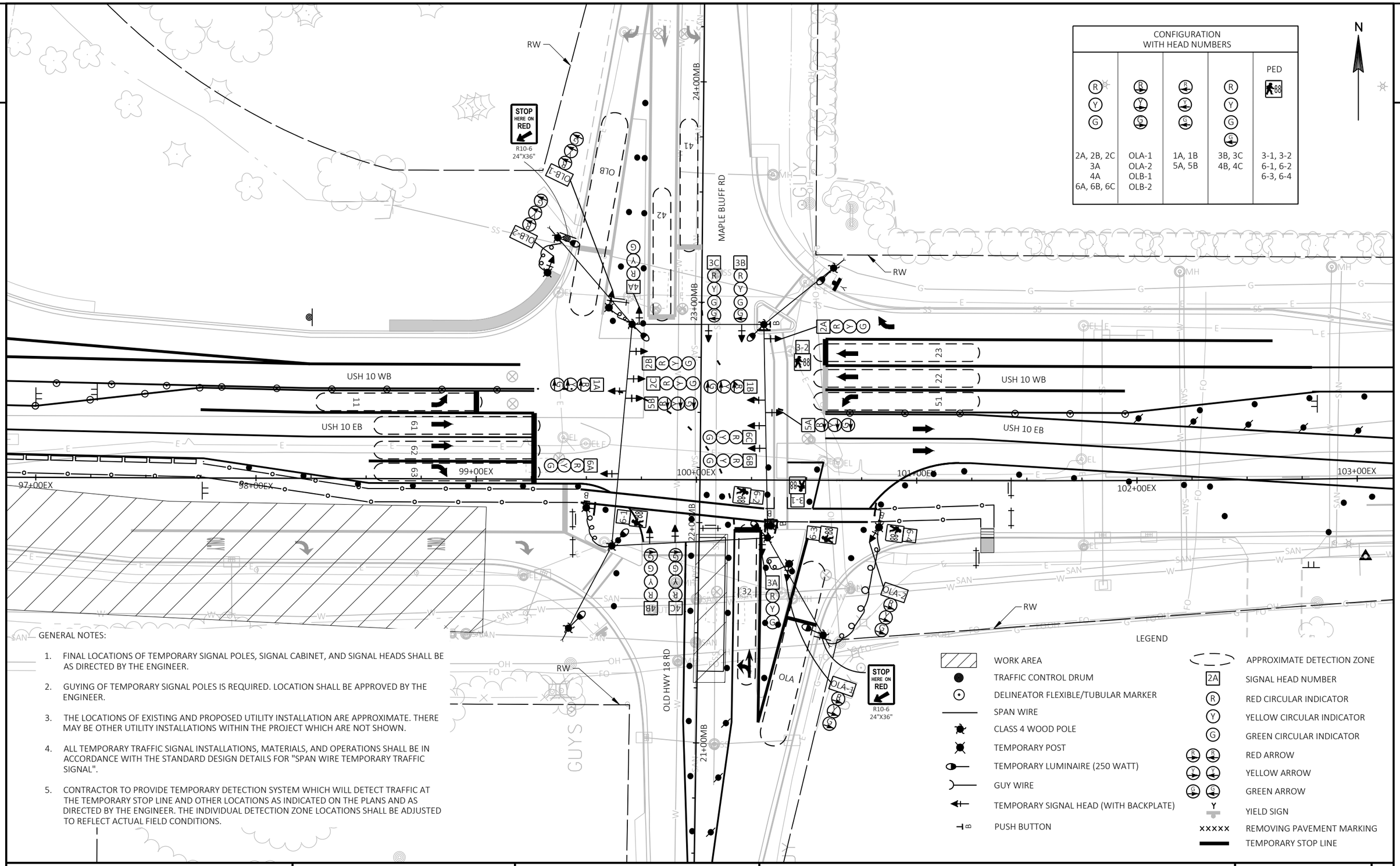
LEGEND

- WORK AREA
- TRAFFIC CONTROL DRUM
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SPAN WIRE
- CLASS 4 WOOD POLE
- TEMPORARY POST
- TEMPORARY LUMINAIRE (250 WATT)
- GUY WIRE
- TEMPORARY SIGNAL HEAD (WITH BACKPLATE)
- PUSH BUTTON
- APPROXIMATE DETECTION ZONE
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- YIELD SIGN
- REMOVING PAVEMENT MARKING
- TEMPORARY STOP LINE

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4B	SHEET 133	E



GENERAL NOTES:

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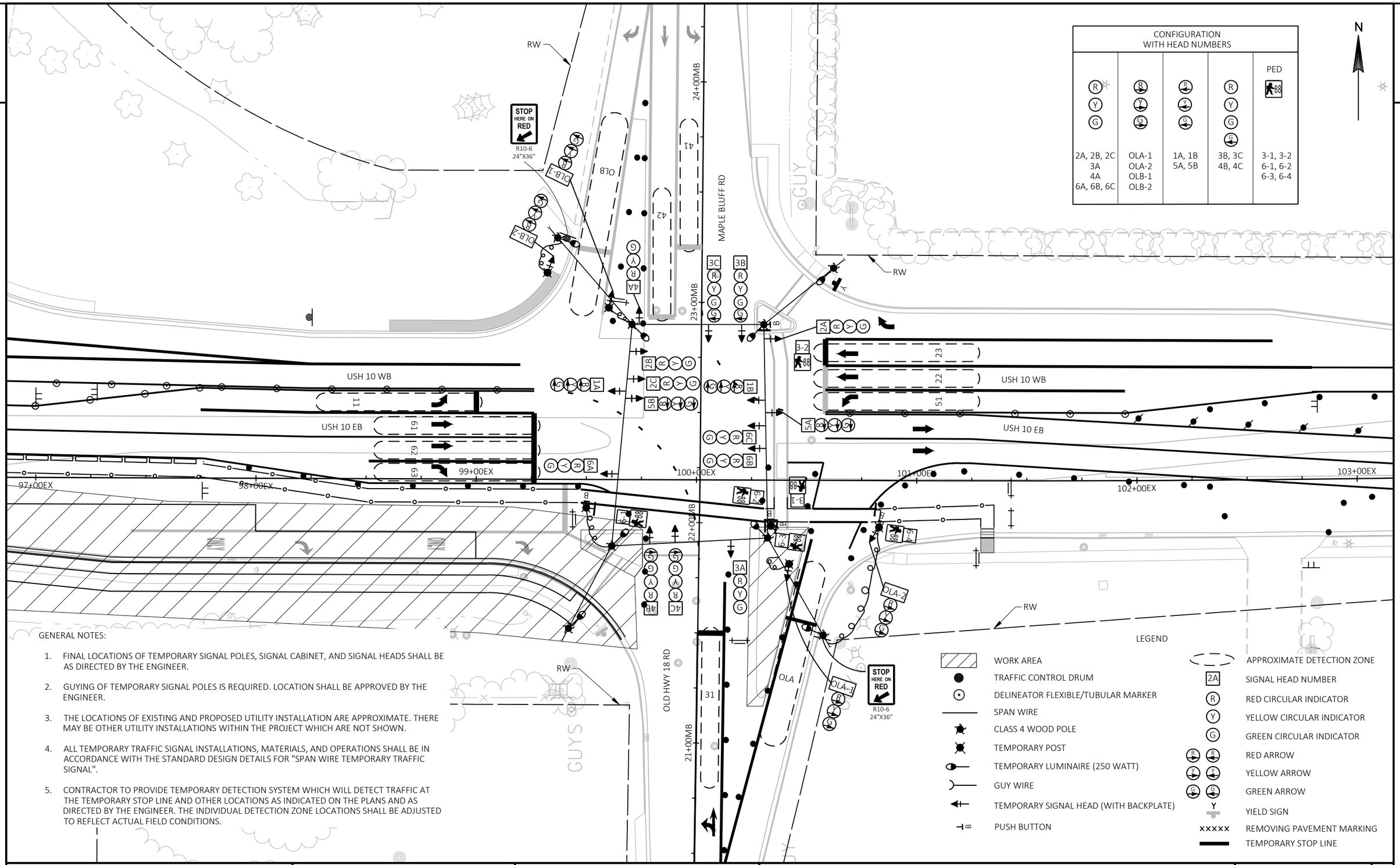
PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4C	SHEET 134	E



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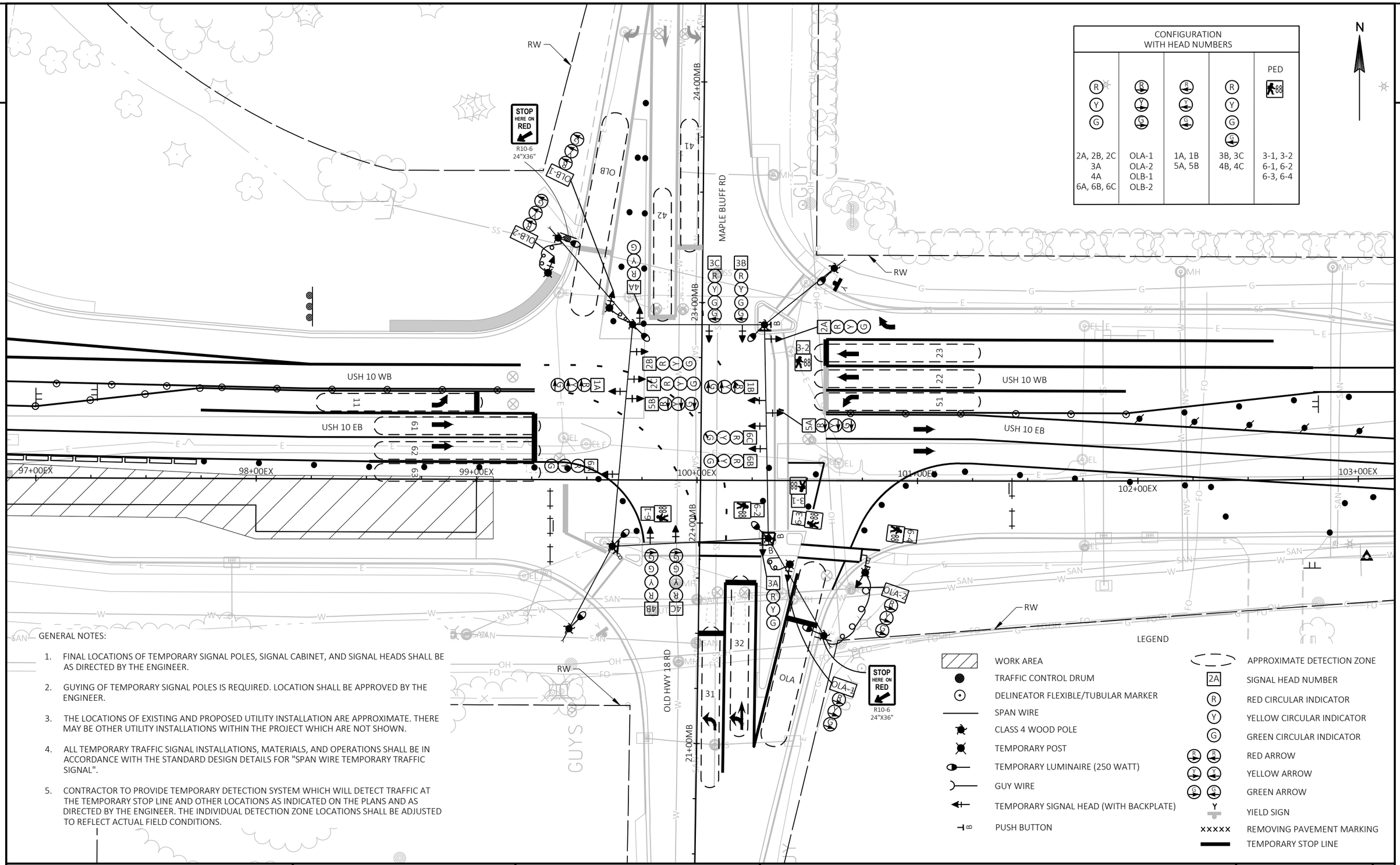
PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4D	SHEET 135	E



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LEGEND

- WORK AREA
- TRAFFIC CONTROL DRUM
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SPAN WIRE
- CLASS 4 WOOD POLE
- TEMPORARY POST
- TEMPORARY LUMINAIRE (250 WATT)
- GUY WIRE
- TEMPORARY SIGNAL HEAD (WITH BACKPLATE)
- PUSH BUTTON
- APPROXIMATE DETECTION ZONE
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- YIELD SIGN
- REMOVING PAVEMENT MARKING
- TEMPORARY STOP LINE

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4E, F & G	SHEET 136	E

2

CONFIGURATION WITH HEAD NUMBERS				
R Y G	R Y G	R Y G	R Y G G	PED
2A, 2B, 2C 3A 4A 6A, 6B, 6C	OLA-1 OLA-2 OLB-1 OLB-2	1A, 1B 5A, 5B	3B, 3C 4B, 4C	3-1, 3-2 6-1, 6-2 6-3, 6-4

N

RW

STOP HERE ON RED
R10-6
24"X36"

OLB-1

OLB-2

OLB

41

42

24+00MB

23+00MB

22+00MB

21+00MB

MAPLE BLUFF RD

OLD HWY 18 RD

GUYS

USH 10 WB

USH 10 EB

11

19

62

63

51

22

23

32

97+00EB

98+00EB

99+00EB

100+00EB

101+00EB

102+00EB

103+00EB

OLA

OLA-1

OLA-2

STOP HERE ON RED
R10-6
24"X36"

GENERAL NOTES:

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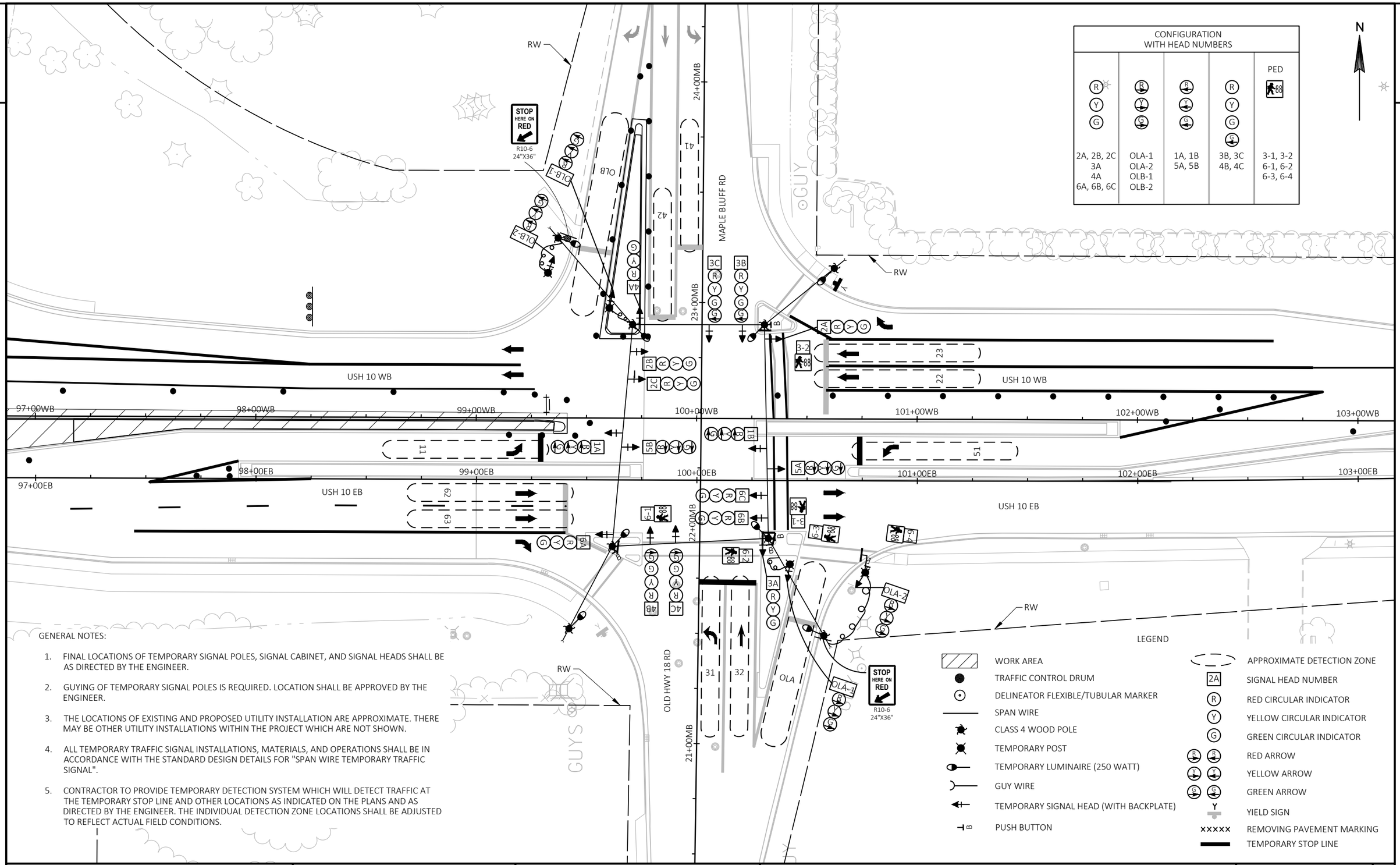
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SPAN WIRE
- CLASS 4 WOOD POLE
- TEMPORARY POST
- TEMPORARY LUMINAIRE (250 WATT)
- GUY WIRE
- TEMPORARY SIGNAL HEAD (WITH BACKPLATE)
- PUSH BUTTON
- APPROXIMATE DETECTION ZONE
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- YIELD SIGN
- REMOVING PAVEMENT MARKING
- TEMPORARY STOP LINE

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5	SHEET 137	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024105-ST.DWG
LAYOUT NAME - 02
PLOT DATE : 3/2/2021 11:23 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



GENERAL NOTES:

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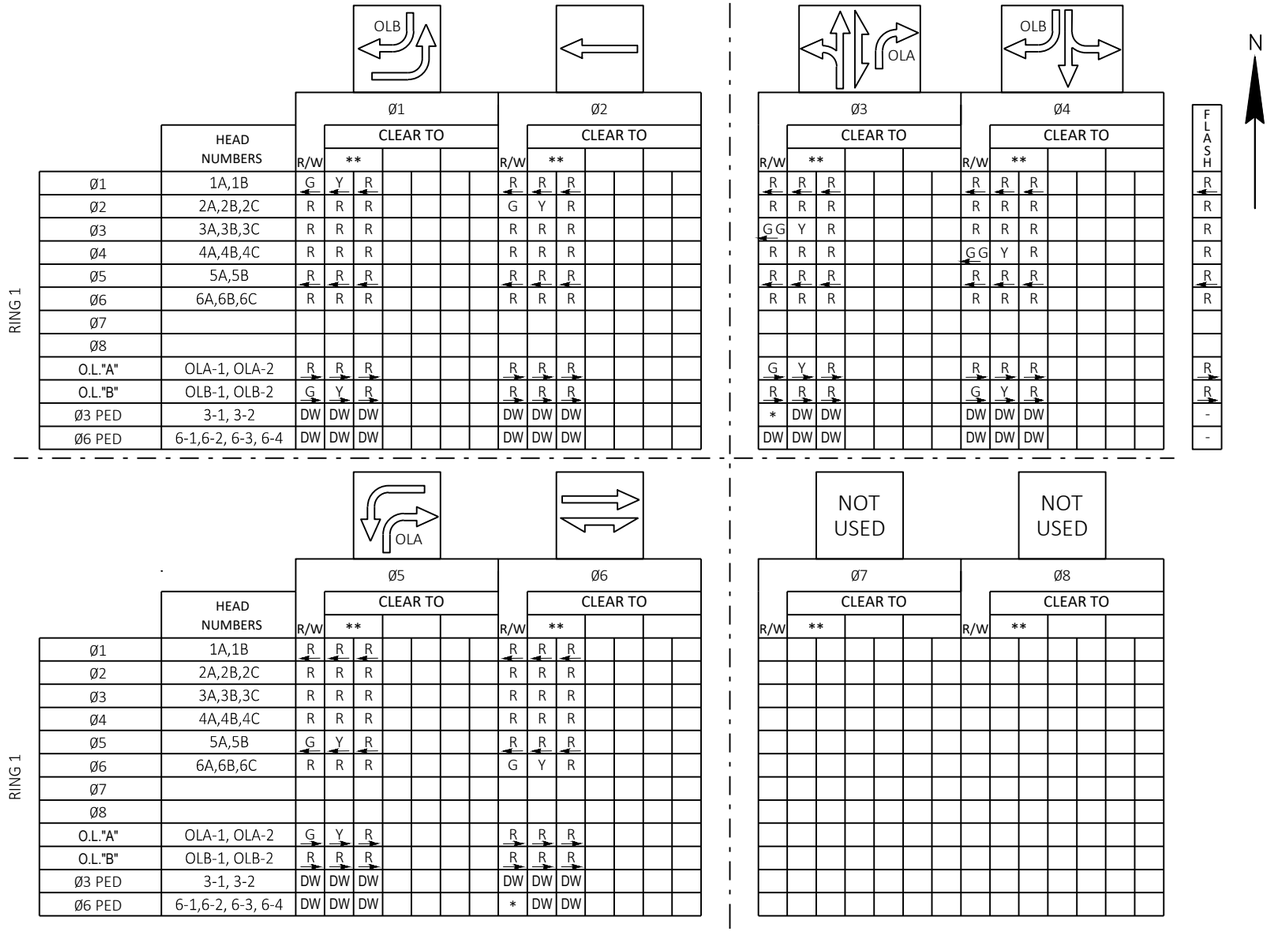
PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5A	SHEET 138	E



	HEAD NUMBERS	Ø1 R/W	Ø1 **	Ø1	Ø1	Ø1	Ø1	Ø2 R/W	Ø2 **	Ø2	Ø2	Ø2	Ø2	Ø3 R/W	Ø3 **	Ø3	Ø3	Ø3	Ø3	Ø4 R/W	Ø4 **	Ø4	Ø4	Ø4	Ø4	FLASH
Ø1	1A,1B	G	Y	R				R	R	R				R	R	R				R	R	R				R
Ø2	2A,2B,2C	R	R	R				G	Y	R				R	R	R				R	R	R				R
Ø3	3A,3B,3C	R	R	R				R	R	R				G G	Y	R				R	R	R				R
Ø4	4A,4B,4C	R	R	R				R	R	R				R	R	R				G G	Y	R				R
Ø5	5A,5B	R	R	R				R	R	R				R	R	R				R	R	R				R
Ø6	6A,6B,6C	R	R	R				R	R	R				R	R	R				R	R	R				R
Ø7																										
Ø8																										
O.L."A"	OLA-1, OLA-2	R	R	R				R	R	R				G	Y	R				R	R	R				R
O.L."B"	OLB-1, OLB-2	G	Y	R				R	R	R				R	R	R				G	Y	R				R
Ø3 PED	3-1, 3-2	DW	DW	DW				DW	DW	DW				*	DW	DW				DW	DW	DW				-
Ø6 PED	6-1,6-2, 6-3, 6-4	DW	DW	DW				DW	DW	DW				DW	DW	DW				DW	DW	DW				-

	HEAD NUMBERS	Ø5 R/W	Ø5 **	Ø5	Ø5	Ø5	Ø5	Ø6 R/W	Ø6 **	Ø6	Ø6	Ø6	Ø6	Ø7 R/W	Ø7 **	Ø7	Ø7	Ø7	Ø7	Ø8 R/W	Ø8 **	Ø8	Ø8	Ø8	Ø8
Ø1	1A,1B	R	R	R				R	R	R															
Ø2	2A,2B,2C	R	R	R				R	R	R															
Ø3	3A,3B,3C	R	R	R				R	R	R															
Ø4	4A,4B,4C	R	R	R				R	R	R															
Ø5	5A,5B	G	Y	R				R	R	R															
Ø6	6A,6B,6C	R	R	R				G	Y	R															
Ø7																									
Ø8																									
O.L."A"	OLA-1, OLA-2	G	Y	R				R	R	R															
O.L."B"	OLB-1, OLB-2	R	R	R				R	R	R															
Ø3 PED	3-1, 3-2	DW	DW	DW				DW	DW	DW															
Ø6 PED	6-1,6-2, 6-3, 6-4	DW	DW	DW				*	DW	DW															

**CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)
*WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5, 6, OLA, OLB	2, 3, 4
2	5, 6, OLA	1, 3, 4, OLB
3	OLA	1, 2, 4, 5, 6, OLB
4	OLB	1, 2, 3, 5, 6, OLA
5	1, 2, OLA, OLB	3, 4, 6
6	1, 2, OLB	3, 4, 5, OLA
7		
8		

DETECTOR LOGIC (TEMPORARY CAMERAS)

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH
11		X			1	1			
21				X		2			
22				X		2			
23				X		2			
31		X			3	3			
32		X			3	3			
OLA		X			3	3			
41		X			4	4			
42		X			4	4			
OLB		X			4	4			
51		X			5	5			
61				X		6			
62				X		6			
63				X		6			

CONTROLLER LOGIC

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

OVERLAPS

O.L."A"	3, 5
O.L."B"	1, 4
O.L."C"	NONE
O.L."D"	NONE

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

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

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

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1)
3. WHEN OPPOSING THROUGH PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

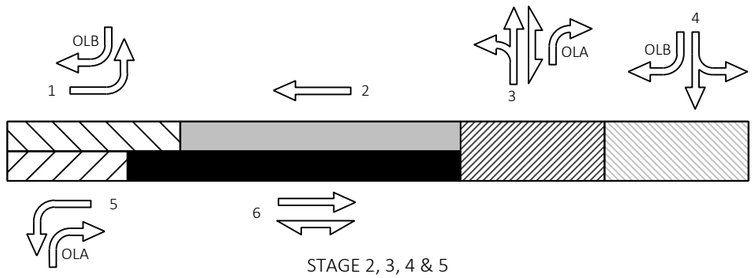
TEMPORARY TRAFFIC SIGNAL
USH 10 & MAPLE BLUFF RD/OLD HWY 18 RD
CITY OF STEVENS POINT
PORTAGE COUNTY

SIGNAL NO. NA

CONTROLLER TYPE: TEMPORARY

2

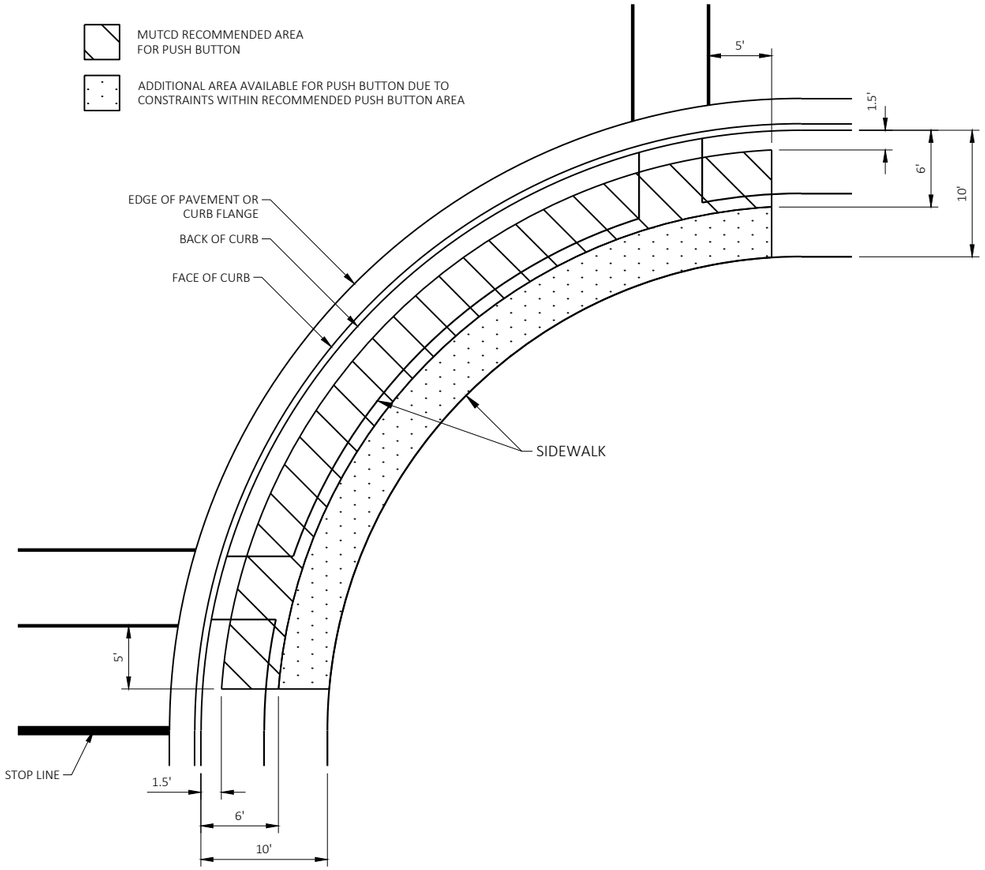
ALLOWED PHASING (PER CONSTRUCTION STAGE)



STAGE 2, 3, 4 & 5

ACTIVATED TIMING PARAMETERS - PER PHASE (SECONDS)

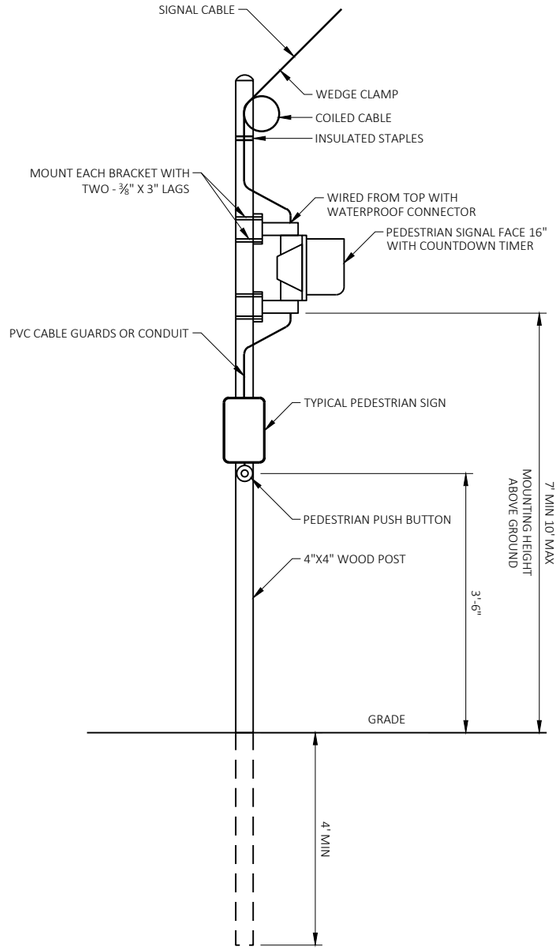
	PHASE							
	1	2	3	4	5	6	7	8
MIN GREEN	8	15	10	10	8	15		
PASSAGE	2.0	4.0	3.0	3.0	2.0	4.0		
MAX 1	25	65	35	35	25	65		
MAX 2								
YELLOW	3.5	4.0	3.5	3.5	3.5	4.0		
RED	1.0	2.5	3.5	3.5	1.0	2.5		
WALK			7			7		
DON'T WALK			29			37		
TBR	8	20	10	10	8	20		
TTR	8	20	10	10	8	20		
MIN GAP	1.0	2.0	1.0	1.0	1.0	2.0		



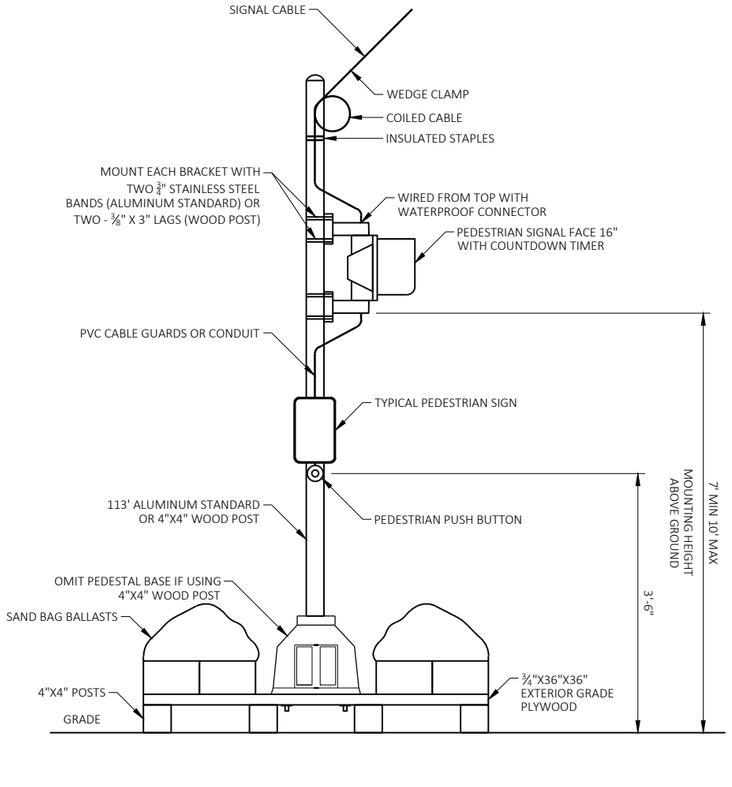
TEMPORARY PEDESTRIAN SIGNAL AREA

PUSH BUTTON LOCATION NOTES:

1. PUSH BUTTONS SHOULD BE CAPABLE OF EASY ACTIVATION AND CONVENIENTLY LOCATED NEAR EACH END OF CROSSWALK OR CROSSING AREA.
2. PUSH BUTTONS SHOULD BE PLACED UNOBSTRUCTED AND ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR.
3. PUSH BUTTONS SHOULD BE PLACED WHERE THERE IS AN ALL-WEATHER SURFACE, A WHEELCHAIR ACCESSIBLE ROUTE FROM THE PUSH BUTTON TO THE RAMP.
4. PUSH BUTTONS SHOULD BE PLACED BETWEEN THE EDGE OF THE CROSSWALK LINE (EXTENDED) FARTHEST FROM THE CENTER OF THE INTERSECTION AND THE SIDE OF A CURB RAMP (IF PRESENT), BUT NOT GREATER THAN 5-FT FROM SAID CROSSWALK LINE.
5. PUSH BUTTONS SHOULD BE PLACED BETWEEN 1.5-FT AND 6-FT FROM THE EDGE FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT. IF THERE ARE PHYSICAL CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSH BUTTON BETWEEN 1.5-FT AND 6-FT FROM EDGE OF CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FARTHER THAN 10-FT FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
6. PUSH BUTTONS SHOULD BE PLACED WITH THE FACE OF THE PUSH BUTTON PARALLEL TO THE CROSSWALK TO BE USED.
7. PUSH BUTTONS ON THE SAME CORNER OF AN INTERSECTION SHOULD BE SEPARATED BY A DISTANCE OF AT LEAST 10-FT. WHERE THERE ARE PHYSICAL CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10-FT SEPARATION BETWEEN THE TWO PEDESTRIAN PUSH BUTTONS, THE PUSH BUTTONS MAY BE PLACED CLOSER TOGETHER ON THE SAME POLE.
8. PUSH BUTTON POLES SHALL BE PLACED SO THAT ALL EQUIPMENT ATTACHED TO THE POLE (PEDESTRIAN SIGNAL HEAD, PUSH BUTTON, SIGN, ECT) IS OUTSIDE THE MINIMUM LATERAL CLEARANCE DISTANCE OF 2-FT FROM THE FACE OF CURB OR EDGE OF TRAVELED WAY.
9. PUSH BUTTONS SHOULD BE PLACED SO THE REACH DISTANCE FROM THE EDGE OF THE FLAT SURFACE ADJACENT TO THE PUSH BUTTON DOES NOT EXCEED THE MAXIMUM ADA REACH DISTANCE OF 2-FT.



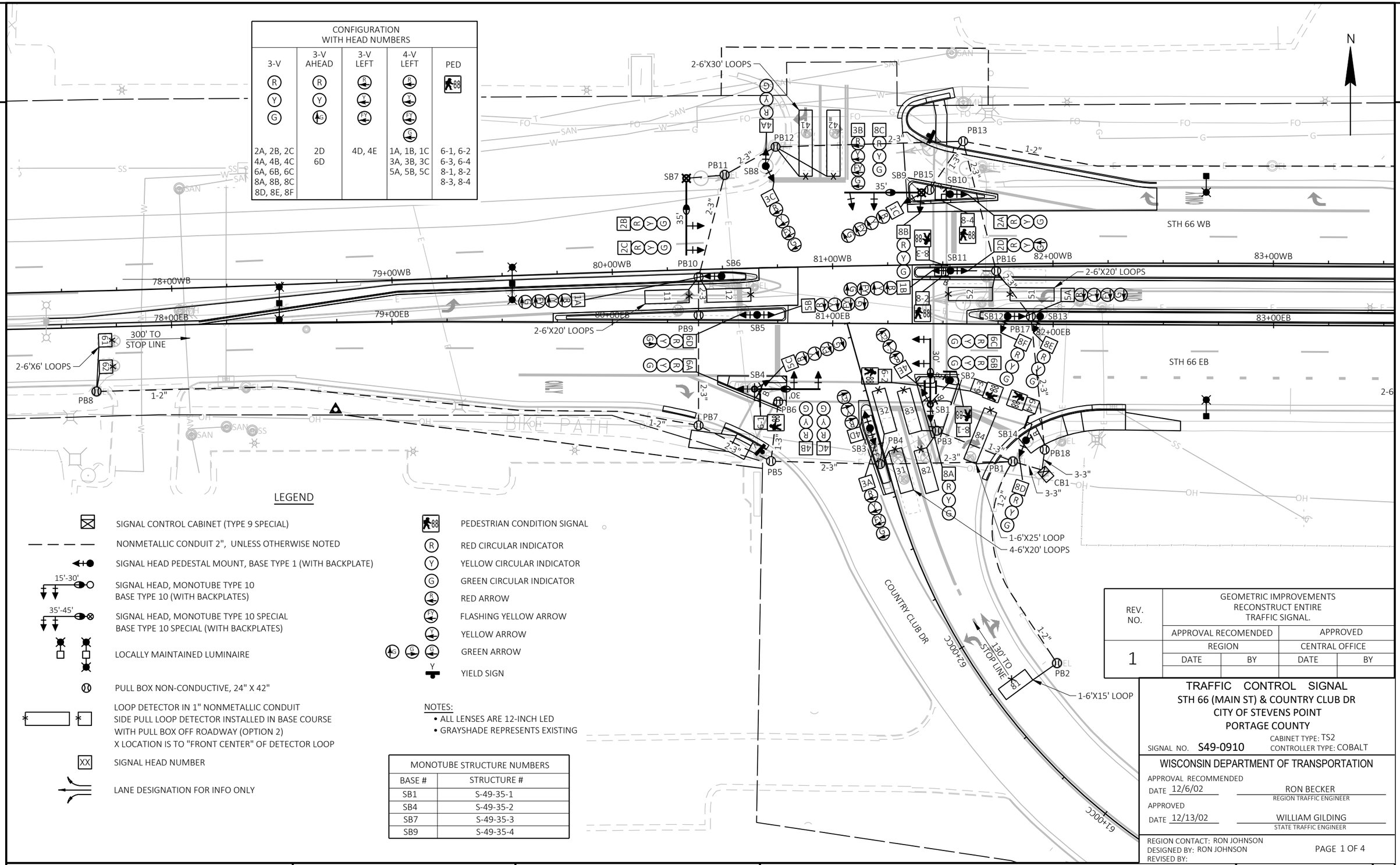
WOOD POST



SKID TYPE TEMPORARY

TEMPORARY PEDESTRIAN SIGNAL NOTES:

1. SIGNAL DROP CABLES SHALL BE PLACED A MINIMUM OF 12-FT ABOVE GROUND NOT SUBJECT TO VEHICULAR TRAFFIC.
2. SIGNAL DROP CABLES SHALL BE PLACED A MINIMUM OF 17-FT ABOVE GROUND SUBJECT TO VEHICULAR TRAFFIC, INCLUDING CONSTRUCTION VEHICLES.
3. SKID TYPE TEMPORARY MAY BE USED FOR PEDESTRIAN PUSH BUTTONS AS LONG AS THE REACH DISTANCE FROM THE EDGE OF THE SKID TO THE PUSH BUTTON DOES NOT EXCEED THE MAXIMUM ADA REACH DISTANCE OF 2-FT.
4. PUSH BUTTONS SHOULD BE PLACED AT A MOUNTING HEIGHT OF 3.5-FT ABOVE THE WALKING SURFACE.
5. MAINTAIN ADA ACCESSIBLE ROUTE AND PEDESTRIAN ACCESSIBILITY REQUIREMENTS FOR ALL ACTIVE PEDESTRIAN SIGNAL INDICATION CROSSING AREAS.
6. MAINTAIN TEMPORARY PEDESTRIAN SIGNALS THROUGHOUT CONSTRUCTION TO ENSURE THAT THE PLACEMENT OF THE TEMPORARY PEDESTRIAN SIGNALS COMPLIES WITH ALL APPLICABLE ADA AND MUTCD SIGNAL PLACEMENT REQUIREMENT.



LEGEND

- SIGNAL CONTROL CABINET (TYPE 9 SPECIAL)
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD PEDESTAL MOUNT, BASE TYPE 1 (WITH BACKPLATE)
- 15'-30' SIGNAL HEAD, MONOTUBE TYPE 10 BASE TYPE 10 (WITH BACKPLATES)
- 35'-45' SIGNAL HEAD, MONOTUBE TYPE 10 SPECIAL BASE TYPE 10 SPECIAL (WITH BACKPLATES)
- LOCALLY MAINTAINED LUMINAIRE
- PULL BOX NON-CONDUCTIVE, 24" X 42"
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
  SIDE PULL LOOP DETECTOR INSTALLED IN BASE COURSE
  WITH PULL BOX OFF ROADWAY (OPTION 2)
  X LOCATION IS TO "FRONT CENTER" OF DETECTOR LOOP
- XX SIGNAL HEAD NUMBER
- LANE DESIGNATION FOR INFO ONLY
- PEDESTRIAN CONDITION SIGNAL
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RED ARROW
- FLASHING YELLOW ARROW
- YELLOW ARROW
- GREEN ARROW
- Y YIELD SIGN

NOTES:
- ALL LENSES ARE 12-INCH LED
- GRAYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURE NUMBERS	
BASE #	STRUCTURE #
SB1	S-49-35-1
SB4	S-49-35-2
SB7	S-49-35-3
SB9	S-49-35-4

REV. NO.	GEOMETRIC IMPROVEMENTS RECONSTRUCT ENTIRE TRAFFIC SIGNAL.			
	APPROVAL RECOMENDED		APPROVED	
1	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY

TRAFFIC CONTROL SIGNAL

STH 66 (MAIN ST) & COUNTRY CLUB DR
CITY OF STEVENS POINT
PORTAGE COUNTY

SIGNAL NO. S49-0910
CABINET TYPE: TS2
CONTROLLER TYPE: COBALT

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 12/6/02 — RON BECKER, REGION TRAFFIC ENGINEER

APPROVED
DATE 12/13/02 — WILLIAM GILDING, STATE TRAFFIC ENGINEER

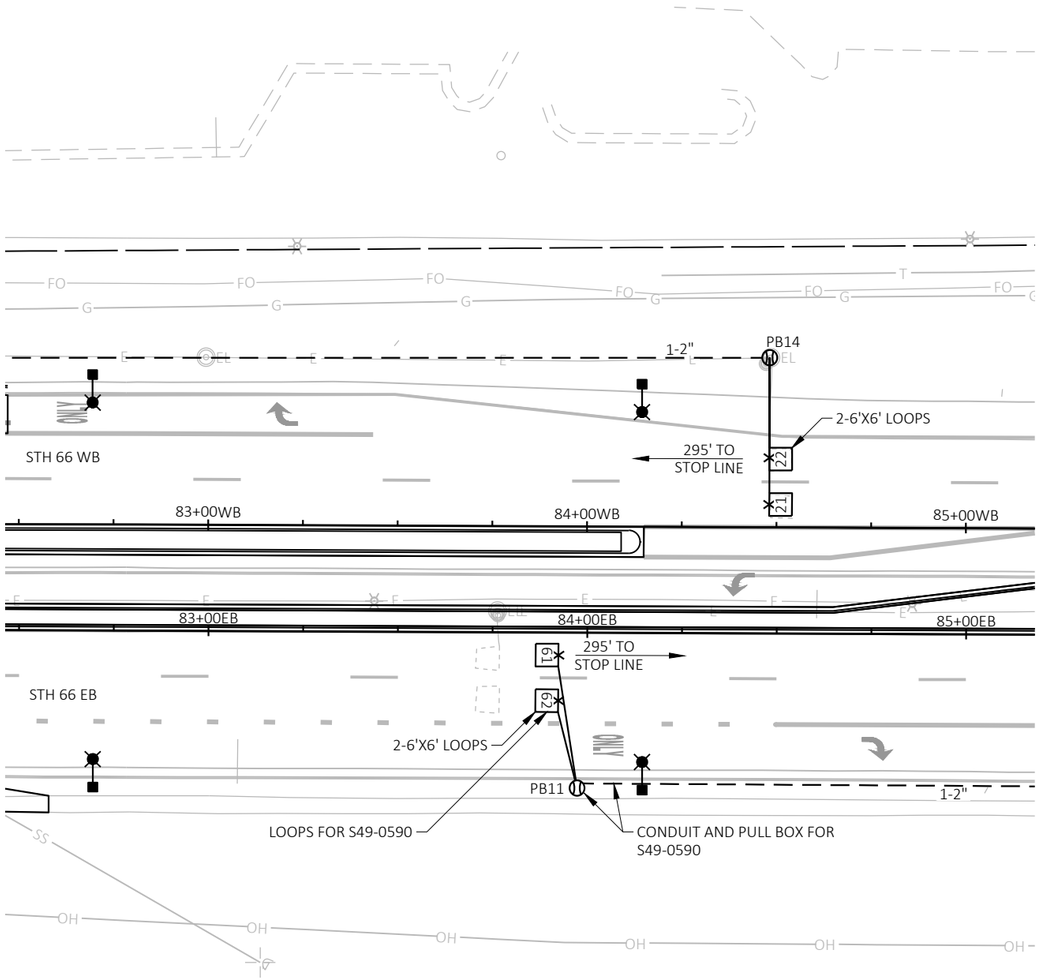
REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN	SHEET 142 E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 01A
PLOT DATE : 3/16/2021 7:11 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

CONSTRUCTION NOTES:

1. X-LOCATION IS TO FRONT CENTER OF DETECTOR LOOP. LOOP SHALL BE CENTERED IN TRAFFIC LANE. INSTALL LOOPS IN THE AGGREGATE BASE COURSE. DISTANCE BETWEEN MULTIPLE STOP LINE LOOPS SHALL BE 8 FEET.
2. ALL SIGNAL EQUIPMENT SHALL BE INSTALLED WITH A 2-FOOT MINIMUM, 3-FOOT DESIRABLE CLEARANCE TO THE FACE OF CURB, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
3. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED BEFORE PLACING SIGNAL CABLE INTO THE SYSTEM.
4. ALL WISDOT LUMINARIES SHOWN ARE 120 VOLT, CATEGORY C LED (LUMINAIRE ARM LENGTHS VARY - REFERENCE QUANTITY LISTING).
5. EACH LOOP DETECTOR SHALL HAVE A SEPARATE LEAD-IN CABLE TO THE CONTROL CABINET.
6. FURNISH AND INSTALL FOLDING STOP SIGNS (36"X36") ON SIGNAL BASES (SB1, SB3, SB4, SB5, SB6, SB8, SB10, SB11, SB12, AND SB14).
7. LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
8. THE ENGINEER WILL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICTS WITH EXISTING UTILITY FACILITIES.
9. ALL CONDUIT RUNS SHALL HAVE EXTRA PULL-WIRE INSTALLED TO PULL FUTURE CABLE. COST WILL BE INCIDENTAL TO THE TRAFFIC SIGNAL CABLE NO. 14.
10. INSTALL 9-FT SIGNAL STANDARDS AT (SB2)
    INSTALL 13-FT SIGNAL STANDARDS AT (SB10, SB13, SB14)
    INSTALL 15-FT SIGNAL STANDARDS AT (SB3, SB5, SB6, SB8, SB11, SB12)
    INSTALL TYPE 10 MONOTUBE, 30-FT ARMS AT (SB1, SB4)
    INSTALL TYPE 10 SPECIAL MONOTUBE, 35-FT SPECIAL ARMS AT (SB7, SB9)



TRAFFIC CONTROL SIGNAL
STH 66 (MAIN STREET) & COUNTRY CLUB DRIVE
CITY OF STEVENS POINT
PORTAGE COUNTY

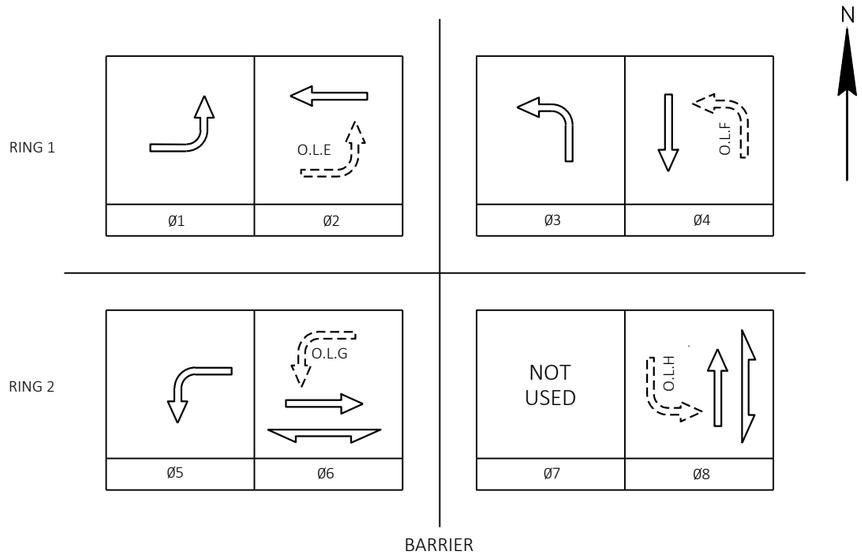
SIGNAL NO. S49-0910 (REV #1)

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN	SHEET 143	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 01B
PLOT DATE : 3/16/2021 7:11 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	1A,1B,1C	-
Ø2	2A,2B,2C,2D	R
Ø3	3A,3B,3C	-
Ø4	4A,4B,4C	R
Ø5	5A,5B,5C	-
Ø6	6A,6B,6C,6D	R
Ø7		
Ø8	8A,8B,8C,8D,8E,8F	R
Ø2 PED		
Ø4 PED		
Ø6 PED	6-1,6-2,6-3,6-4	-
Ø8 PED	8-1,8-2,8-3,8-4	-
O.L. "E"	1A,1B,1C	R
O.L. "F"	3A,3B,3C	R
O.L. "G"	5A,5B,5C	R
O.L. "H"	4D,4E	R



CONTROLLER LOGIC

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

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
O.L."E"	1	2
O.L."F"	3	4
O.L."G"	5	6
O.L."H"	- -	8

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

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-49-0130

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

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)	61	11	21	51	41	81	82/83	31
PHASE CALLED	6	1	2	5	4		8	3
CALL OPTION	X	X	X	X	X		X	X
DELAY TIME					8.0			
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME	5.0	2.0	5.0	2.0	2.0	2.0	2.0	2.0
USE ADDED INITIAL	X		X					
STRETCH TIME						1.0		
LOOP SIZE (FTxFT)	6X6	6X20	6X6	6X20	6X30	6X15	2-6X20	6X20
NUMBER TURNS	4	3	4	3	3	4	3	3

DETECTOR INPUT	19	17	23	21	27	25	31	29
DETECTOR #(S)								
PHASE CALLED								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
STRETCH TIME								
LOOP SIZE (FTxFT)								
NUMBER TURNS								

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)	62	12	22	52	42		84	32
PHASE CALLED	6	1	2	5	4		8	3
CALL OPTION	X	X	X	X	X		X	X
DELAY TIME							8.0	
EXTENTION OPTION	X	X	X	X	X		X	X
EXTEND TIME	5-0	2.0	5.0	2.0	2.0		2.0	2.0
USE ADDED INITIAL	X		X					
STRETCH TIME								
LOOP SIZE (FTxFT)	6X6	6X20	6X6	6X20	6X30		6X25	6X20
NUMBER TURNS	4	3	4	3	3		3	3

DETECTOR INPUT	20	18	24	22	28	26	32	30
DETECTOR #(S)								
PHASE CALLED								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
STRETCH TIME								
LOOP SIZE (FTxFT)								
NUMBER TURNS								

OVERLAPS

O.L."A"	NONE
O.L."B"	NONE
O.L."C"	NONE
O.L."D"	NONE

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

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL.
3. WHEN OPPOSING THROUGH PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

TRAFFIC CONTROL SIGNAL
STH 66 (MAIN STREET) & COUNTRY CLUB DRIVE
CITY OF STEVENS POINT
PORTAGE COUNTY

SIGNAL NO. S49-0910 (REV #1)

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN - SEQUENCE OF OPERATION	SHEET 144	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 01C
PLOT DATE : 3/16/2021 7:11 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

PROJECT ID:	6290-09-71
INTERSECTION:	STH 66 @ COUNTRY CLUB

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

CB2 TO	JUMPER	AWG 14 # OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR									
					RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	Flashing Yellow	D/Walk	Walk	Ped Button
SB1		15	8A	8	RED	ORG	GRN							
			4E	4				RED/BLK	ORG/BLK		BLK			
			6B&6C	6	RED/WHT	BLU	GRN/WHT							
			6-2&6-3	6P								BLK/WHT	GRN/BLK	WHT/BLK
SB2		5	8-1	8P								RED	GRN	WHT/BLK
SB3		9	4D	4				RED/BLK	GRN/BLK		BLU			
			3A	3				RED	ORG	GRN	BLK			
SB4		15	5C	5				RED/WHT	BLK/WHT	GRN/WHT	BLU			
			6A		RED/BLK	ORG/BLK	GRN/BLK							
			4B&4C	4	RED	ORG	GRN							
			6-1	6P								BLK	BLU/WHT	WHT/BLK
SB5		9	6D	6	RED	ORG				GRN				
			5B	5				RED/BLK	BLU	GRN/BLK	BLK			
SB6		5	1A	1				RED	ORG	GRN	BLK			
SB7		5	2B&2C	2	RED	ORG	GRN							
SB8		9	4A	4	RED/BLK	BLU	GRN/BLK							
			3C	3				RED	ORG	GRN	BLK			
SB9		12	8B&8C	8	RED	ORG	GRN							
			3B	3				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
			1C	1				BLU/BLK	WHT/BLK	BLU	BLK			
SB10		9	2A	2	RED	ORG	GRN							
			8-4	8P								RED/BLK	GRN/BLK	WHT/BLK
SB11		12	2D	2	RED/BLK	ORG/BLK				GRN/BLK				
			1B	1				RED	ORG	GRN/BLK	BLK			
			8-2&8-3	8P								BLK/WHT	BLU	WHT/BLK
SB12		9	8F	8	RED	ORG	GRN							
			5A	5				RED/BLK	BLU	GRN/BLK	BLK			
SB13		5	8E	8	RED	ORG	GRN							
SB14		9	8D	8	RED	ORG	GRN							
			6-4	6P								RED/BLK	GRN/BLK	WHT/BLK

Equipment grounding conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To

Lighting UF #12/2 w/ground	
From	To
CB1	SB1
CB1	SB4
CB1	SB7
CB1	SB9

Emergency Vehicle Preemption	
From	To

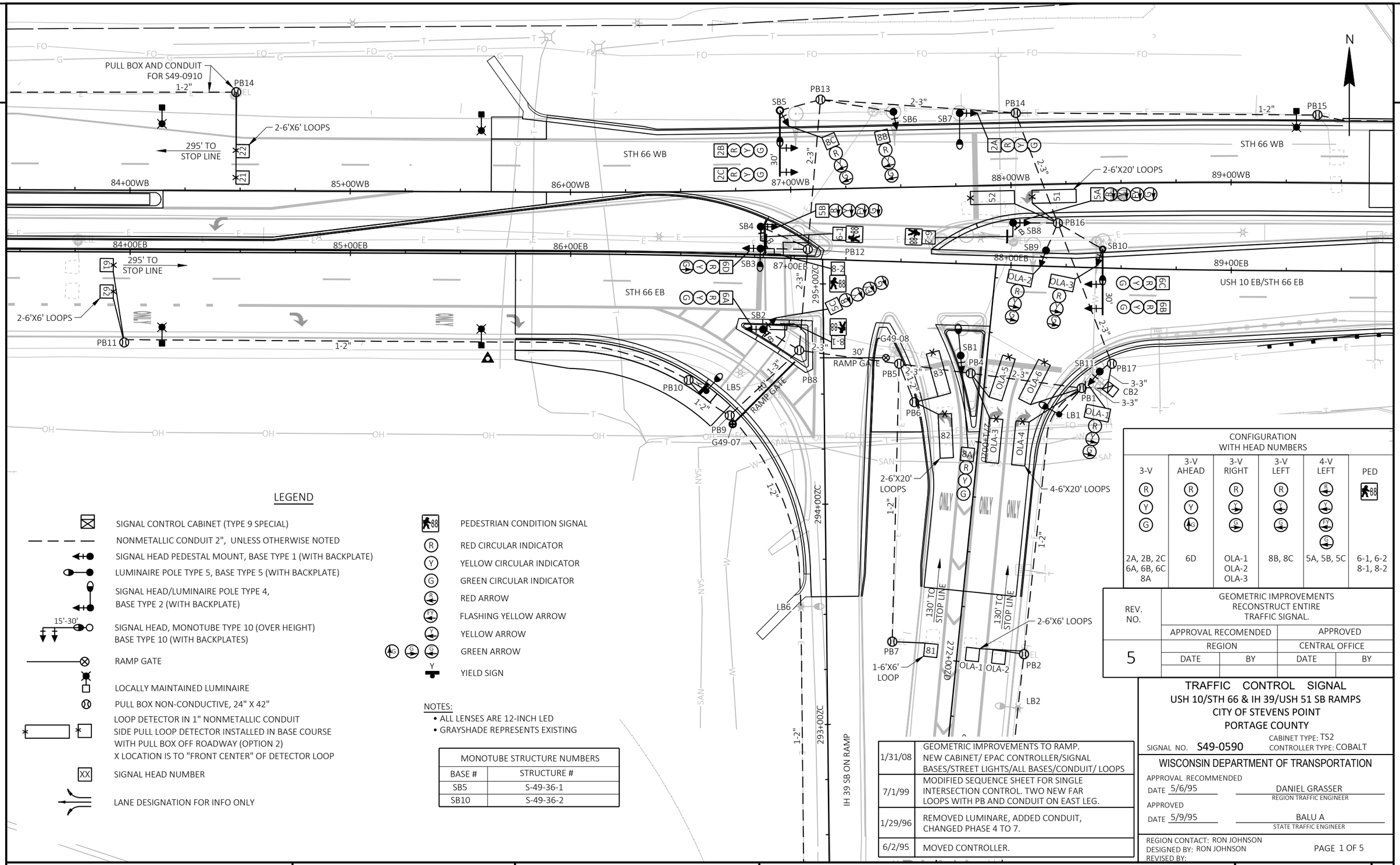
*USE THE WHITE CONDUCTOR IN THE CABLE ASSEMBLY AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATION
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12 INCHES LONGER THAN THE UNGROUNDED
*AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.
*"OTHER" COLUMN MAY INCLUDE SHADOW BOX SIGN

TRAFFIC CONTROL SIGNAL
STH 66 (MAIN STREET) & COUNTRY CLUB DRIVE
CITY OF STEVENS POINT
PORTAGE COUNTY
SIGNAL NO. S49-0910 (REV #1)

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN - CABLE ROUTING	SHEET 145	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 01D
PLOT DATE : 3/16/2021 7:11 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



LEGEND

- SIGNAL CONTROL CABINET (TYPE 9 SPECIAL)
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD PEDESTAL MOUNT, BASE TYPE 1 (WITH BACKPLATE)
- LUMINAIRE POLE TYPE 5, BASE TYPE 5 (WITH BACKPLATE)
- SIGNAL HEAD/LUMINAIRE POLE TYPE 4, BASE TYPE 2 (WITH BACKPLATE)
- 15'-30' SIGNAL HEAD, MONOTUBE TYPE 10 (OVER HEIGHT) BASE TYPE 10 (WITH BACKPLATES)
- RAMP GATE
- LOCALLY MAINTAINED LUMINAIRE
- PULL BOX NON-CONDUCTIVE, 24" X 42"
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT SIDE PULL LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL BOX OFF ROADWAY (OPTION 2) X LOCATION IS TO "FRONT CENTER" OF DETECTOR LOOP
- XX SIGNAL HEAD NUMBER
- LANE DESIGNATION FOR INFO ONLY
- PEDESTRIAN CONDITION SIGNAL
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RA RED ARROW
- FY FLASHING YELLOW ARROW
- YA YELLOW ARROW
- AG S G GREEN ARROW
- Y YIELD SIGN

NOTES:
- ALL LENSES ARE 12-INCH LED
- GRAYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURE NUMBERS	
BASE #	STRUCTURE #
SB5	S-49-36-1
SB10	S-49-36-2

CONFIGURATION WITH HEAD NUMBERS					
3-V	3-V AHEAD	3-V RIGHT	3-V LEFT	4-V LEFT	PED
R Y G	R Y AG	R Y S G	R Y S G	RA S G FY G	88
2A, 2B, 2C 6A, 6B, 6C 8A	6D	OLA-1 OLA-2 OLA-3	8B, 8C	5A, 5B, 5C	6-1, 6-2 8-1, 8-2

REV. NO.	GEOMETRIC IMPROVEMENTS RECONSTRUCT ENTIRE TRAFFIC SIGNAL.			
	APPROVAL RECOMENDED		APPROVED	
5	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY

1/31/08	GEOMETRIC IMPROVEMENTS TO RAMP. NEW CABINET/ EPAC CONTROLLER/SIGNAL BASES/STREET LIGHTS/ALL BASES/CONDUIT/ LOOPS
7/1/99	MODIFIED SEQUENCE SHEET FOR SINGLE INTERSECTION CONTROL. TWO NEW FAR LOOPS WITH PB AND CONDUIT ON EAST LEG.
1/29/96	REMOVED LUMINARE, ADDED CONDUIT, CHANGED PHASE 4 TO 7.
6/2/95	MOVED CONTROLLER.

TRAFFIC CONTROL SIGNAL

USH 10/STH 66 & IH 39/USH 51 SB RAMPS
CITY OF STEVENS POINT
PORTAGE COUNTY

SIGNAL NO. S49-0590
CABINET TYPE: TS2
CONTROLLER TYPE: COBALT

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 5/6/95 — DANIEL GRASSER, REGION TRAFFIC ENGINEER

APPROVED
DATE 5/9/95 — BALU A, STATE TRAFFIC ENGINEER

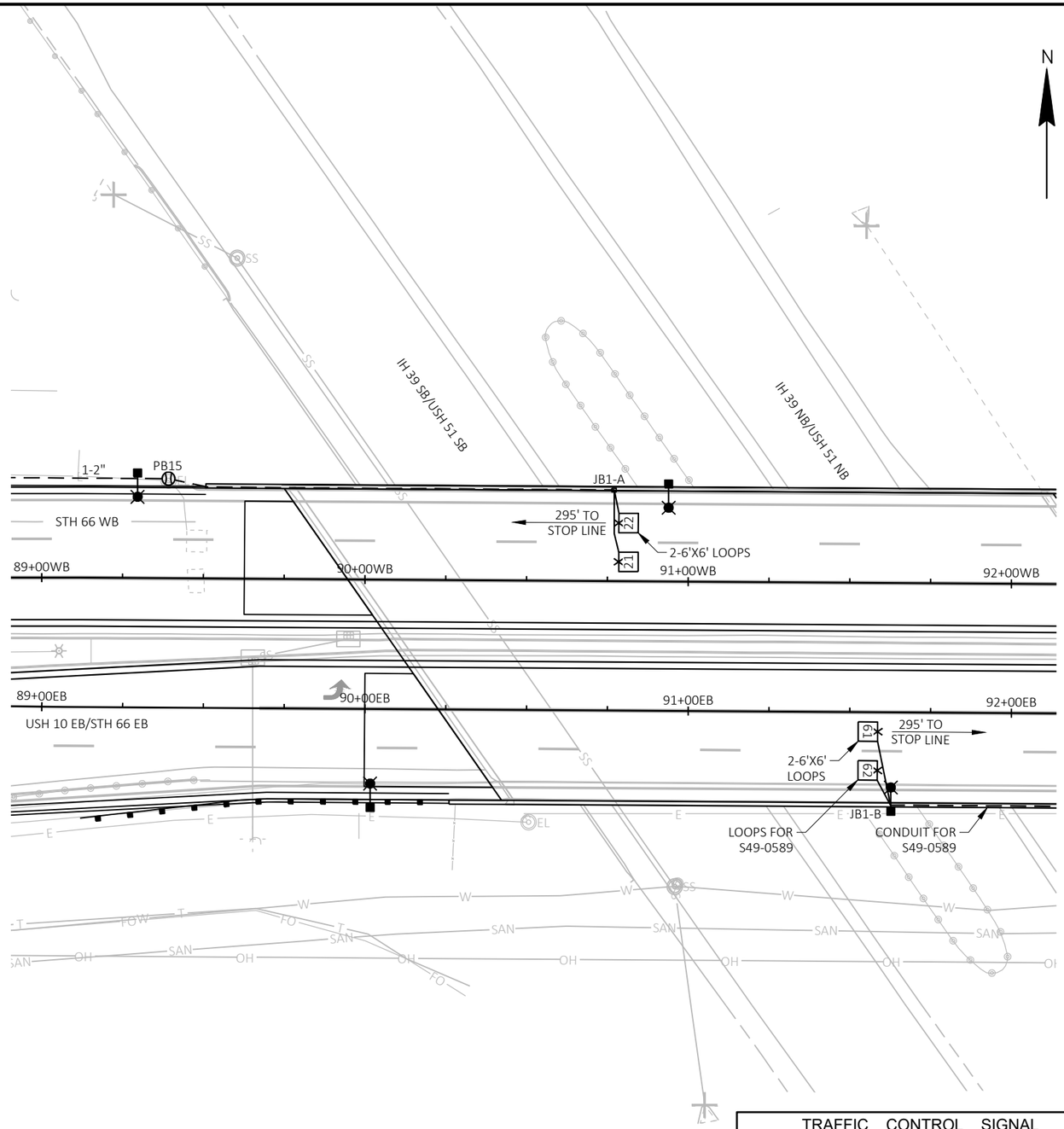
REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN	SHEET 146	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 02A
PLOT DATE : 3/16/2021 7:11 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

CONSTRUCTION NOTES:

1. X-LOCATION IS TO FRONT CENTER OF DETECTOR LOOP. LOOP SHALL BE CENTERED IN TRAFFIC LANE. INSTALL LOOPS IN THE AGGREGATE BASE COURSE. DISTANCE BETWEEN MULTIPLE STOP LINE LOOPS SHALL BE 8 FEET.
2. ALL SIGNAL EQUIPMENT SHALL BE INSTALLED WITH A 2-FOOT MINIMUM, 3-FOOT DESIRABLE CLEARANCE TO THE FACE OF CURB, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
3. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED BEFORE PLACING SIGNAL CABLE INTO THE SYSTEM.
4. ALL WISDOT LUMINARIES SHOWN ARE 120 VOLT, CATEGORY C LED (LUMINAIRE ARM LENGTHS VARY - REFERENCE QUANTITY LISTING).
5. EACH LOOP DETECTOR SHALL HAVE A SEPARATE LEAD-IN CABLE TO THE CONTROL CABINET.
6. FURNISH AND INSTALL FOLDING STOP SIGNS (36"X36") ON SIGNAL BASES (SB1, SB2, SB3, SB7, SB8, AND SB11).
7. LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
8. THE ENGINEER WILL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICTS WITH EXISTING UTILITY FACILITIES.
9. ALL CONDUIT RUNS SHALL HAVE EXTRA PULL-WIRE INSTALLED TO PULL FUTURE CABLE. COST WILL BE INCIDENTAL TO THE TRAFFIC SIGNAL CABLE NO. 14.
10. INSTALL 13-FT SIGNAL STANDARDS AT (SB6, SB9, SB11)
    INSTALL 15-FT SIGNAL STANDARDS AT (SB2, SB4, SB8)
    INSTALL TYPE 4 (30-FT) POLES AT (SB1, SB3, SB7)
    INSTALL TYPE 5 (30-FT) POLES AT (LB1, LB5)
    INSTALL TYPE 10 (OVER HEIGHT) MONOTUBE, 30-FT ARMS AT (SB5, SB10)



TRAFFIC CONTROL SIGNAL
USH 10/STH 66 & IH 39/USH 51 SB RAMPS
CITY OF STEVENS POINT
PORTAGE COUNTY

SIGNAL NO. S49-0590 (REV #5)

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN	SHEET 147	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 02B
PLOT DATE : 3/16/2021 7:11 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

IH 39 SB ON RAMP

IH 39 SB OFF RAMP

293+00ZC

292+00ZC

291+00ZC

290+00ZC

274+00ZD

275+00ZD

276+00ZD

1-2"

LB7

LB2

LB3

LB4

PB3

ONLY

ONLY

ONLY

TRAFFIC CONTROL SIGNAL
USH 10/STH 66 & IH 39/USH 51 SB RAMPS
CITY OF STEVENS POINT
PORTAGE COUNTY

SIGNAL NO. S49-0590 (REV #5)

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

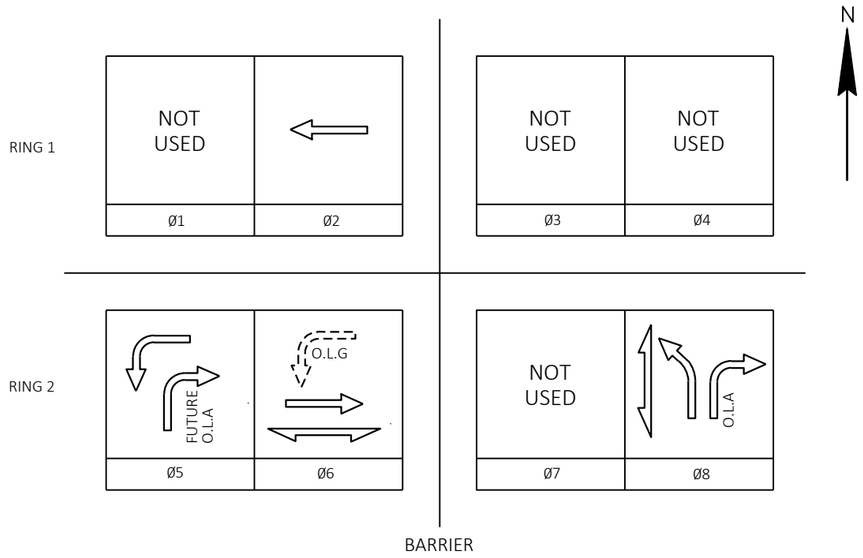
PAGE 3 OF 5

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN	SHEET 148	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 02C

PLOT DATE : 3/16/2021 7:12 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1		
Ø2	2A,2B,2C	R
Ø3		
Ø4		
Ø5	5A,5B,5C	-
Ø6	6A,6B,6C,6D	R
Ø7		
Ø8	8A,8B,8C	R
Ø2 PED		
Ø4 PED		
Ø6 PED	6-1,6-2	-
Ø8 PED	8-1,8-2	-
OL "A"	OLA-1,OLA-2,OLA-3	R
OL "B"		
OL "C"		
OL "D"		
OL "E"		
OL "F"		
OL "G"	5A,5B,5C	R
OL "H"		



CONTROLLER LOGIC

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

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
O.L."E"	-	-
O.L."F"	-	-
O.L."G"	5	6
O.L."H"	-	-

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

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-49-0130

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

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)	61	21	51	81	82	OLA-1	OLA-3	OLA-5
PHASE CALLED	6	2	5		8		8	8
CALL OPTION	X	X	X		X		X	X
DELAY TIME							8.0	8.0
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME	5.0	5.0	2.0	2.0	2.0	2.0	2.0	2.0
USE ADDED INITIAL	X	X						
STRETCH TIME				1.0		1.0		
LOOP SIZE (FTxFT)	6X6	6X6	6X20	6X6	6X20	6X6	6X20	6X20
NUMBER TURNS	4	4	3	4	3	4	3	3

DETECTOR INPUT	19	17	23	21	27	25	31	29
DETECTOR #(S)								
PHASE CALLED								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
STRETCH TIME								
LOOP SIZE (FTxFT)								
NUMBER TURNS								

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)	62	22	52		83	OLA-2	OLA-4	OLA-6
PHASE CALLED	6	2	5		8		8	8
CALL OPTION	X	X	X		X		X	X
DELAY TIME							8.0	8.0
EXTENTION OPTION	X	X	X		X	X	X	X
EXTEND TIME	5.0	5.0	2.0		2.0	2.0	2.0	2.0
USE ADDED INITIAL	X	X						
STRETCH TIME						1.0		
LOOP SIZE (FTxFT)	6X6	6X6	6X20		6X20	6X6	6X20	6X20
NUMBER TURNS	4	4	3		3	4	3	3

DETECTOR INPUT	20	18	24	22	28	26	32	30
DETECTOR #(S)								
PHASE CALLED								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
STRETCH TIME								
LOOP SIZE (FTxFT)								
NUMBER TURNS								

OVERLAPS

O.L."A"	8 (FUTURE 5)
O.L."B"	NONE
O.L."C"	NONE
O.L."D"	NONE

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

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL.
3. WHEN OPPOSING THROUGH PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

TRAFFIC CONTROL SIGNAL
USH 10/STH 66 & IH 39/USH 51 SB RAMP
CITY OF STEVENS POINT
PORTAGE COUNTY
SIGNAL NO. S49-0590 (REV #5)

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PROJECT NO: 6290-09-70 | HWY: USH 10 | COUNTY: PORTAGE | TRAFFIC SIGNAL PLAN - SEQUENCE OF OPERATION | SHEET 149 E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 02D
PLOT DATE : 3/16/2021 7:12 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

PROJECT ID:	6290-09-70
INTERSECTION:	USH 10/STH 66 @ USH 51 SB RAMP

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

CB2 TO	JUMPER	AWG 14 # OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								Walk	Ped Button
					RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	Flashing Yellow	D/Walk		
SB1		5	8A	8	RED	ORG	GRN							
SB2		12	6A	6	RED	ORG	GRN							
			5C	5				RED/BLK	ORG/BLK	GRN/BLK	BLK			
			8-1	PED 8								BLK/WHT	BLU	WHT/BLK
SB3		9	6D	6	RED	ORG				GRN				
			8-2	PED 8								BLK	BLU	WHT/BLK
SB4		9	5B	5				RED	ORG	GRN	BLK			
			6-1	PED 6-1								RED/BLK	GRN/BLK	WHT/BLK
SB5		9	8C	8	RED				ORG	GRN				
			2B&2C	2	RED/BLK	BLK	GRN/BLK							
SB6		5	8B	8	RED				ORG	GRN				
SB7		5	2A	2	RED	ORG	GRN							
SB8		9	5A	5				RED	ORG	GRN	BLK			
			6-2	PED 6								RED/BLK	GRN/BLK	WHT/BLK
SB9		5	OLA-2	OLA	RED				ORG	GRN				
SB10		9	OLA-3	OLA	RED/BLK				ORG/BLK	GRN/BLK				
			6B&6C	6	RED	ORG	GRN							
SB11		5	OLA-1	OLA	RED				ORG	GRN				

Equipment grounding conductor 10 AWG Green XLP	
From	To
CB2	LB1
LB1	LB2
LB2	LB3
LB3	LB4
LB4	SB1
SB1	SB2
SB2	LB5
LB5	LB6
LB6	LB7
LB7	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	CB2

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To

Lighting UF #12/2 w/ground	
From	To
CB2	LB1
CB2	LB2
CB2	LB3
CB2	LB4
CB2	LB5
CB2	LB6
CB2	LB7
CB2	SB1
CB2	SB3
CB2	SB5
CB2	SB7
CB2	SB10

Emergency Vehicle Preemption	
From	To

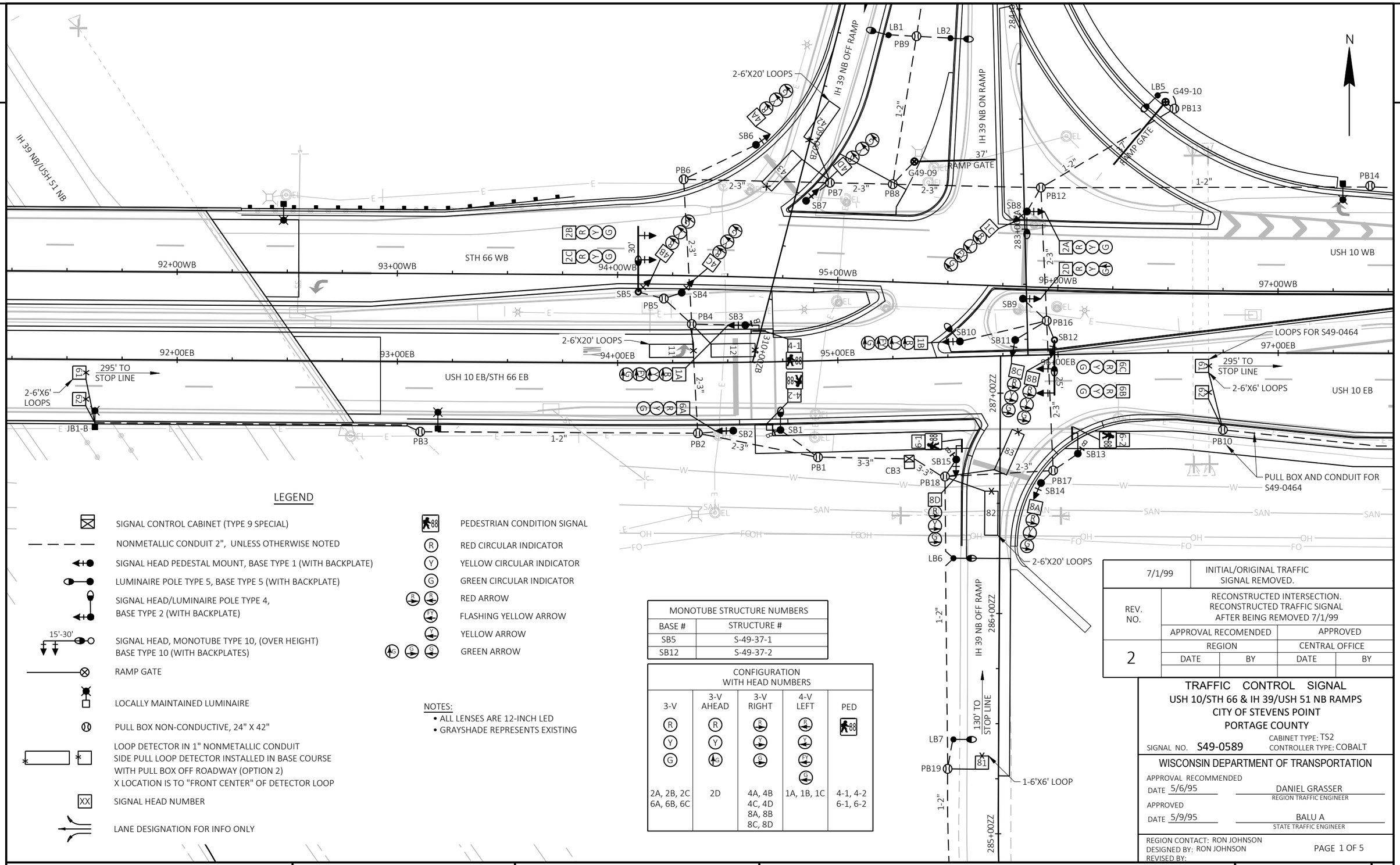
*USE THE WHITE CONDUCTOR IN THE CABLE ASSEMBLY AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATION
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12 INCHES LONGER THAN THE UNGROUNDED
*AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.
*"OTHER" COLUMN MAY INCLUDE SHADOW BOX SIGN

TRAFFIC CONTROL SIGNAL
USH 10/STH 66 & IH 39/USH 51 SB RAMP
CITY OF STEVENS POINT
PORTAGE COUNTY
SIGNAL NO. S49-0590 (REV #5)

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:
PAGE 5 OF 5

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN - CABLE ROUTING	SHEET 150	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 02E
PLOT DATE : 3/16/2021 7:12 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



LEGEND

- SIGNAL CONTROL CABINET (TYPE 9 SPECIAL)
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD PEDESTAL MOUNT, BASE TYPE 1 (WITH BACKPLATE)
- LUMINAIRE POLE TYPE 5, BASE TYPE 5 (WITH BACKPLATE)
- SIGNAL HEAD/LUMINAIRE POLE TYPE 4, BASE TYPE 2 (WITH BACKPLATE)
- 15'-30' SIGNAL HEAD, MONOTUBE TYPE 10, (OVER HEIGHT) BASE TYPE 10 (WITH BACKPLATES)
- RAMP GATE
- LOCALLY MAINTAINED LUMINAIRE
- PULL BOX NON-CONDUCTIVE, 24" X 42"
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT SIDE PULL LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL BOX OFF ROADWAY (OPTION 2) X LOCATION IS TO "FRONT CENTER" OF DETECTOR LOOP
- XX SIGNAL HEAD NUMBER
- LANE DESIGNATION FOR INFO ONLY

- PEDESTRIAN CONDITION SIGNAL
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- FLASHING YELLOW ARROW
- YELLOW ARROW
- GREEN ARROW

NOTES:
- ALL LENSES ARE 12-INCH LED
- GRAYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURE NUMBERS	
BASE #	STRUCTURE #
SB5	S-49-37-1
SB12	S-49-37-2

CONFIGURATION WITH HEAD NUMBERS				
3-V	3-V AHEAD	3-V RIGHT	4-V LEFT	PED
R Y G	R Y G	R Y G	R Y FY G	88
2A, 2B, 2C 6A, 6B, 6C	2D	4A, 4B 4C, 4D 8A, 8B 8C, 8D	1A, 1B, 1C	4-1, 4-2 6-1, 6-2

REV. NO.				
7/1/99	INITIAL/ORIGINAL TRAFFIC SIGNAL REMOVED.			
2	RECONSTRUCTED INTERSECTION. RECONSTRUCTED TRAFFIC SIGNAL AFTER BEING REMOVED 7/1/99			
	APPROVAL RECOMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY

TRAFFIC CONTROL SIGNAL

USH 10/STH 66 & IH 39/USH 51 NB RAMPS
CITY OF STEVENS POINT
PORTAGE COUNTY

SIGNAL NO. S49-0589
CABINET TYPE: TS2
CONTROLLER TYPE: COBALT

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 5/6/95 — DANIEL GRASSER, REGION TRAFFIC ENGINEER

APPROVED
DATE 5/9/95 — BALU A, STATE TRAFFIC ENGINEER

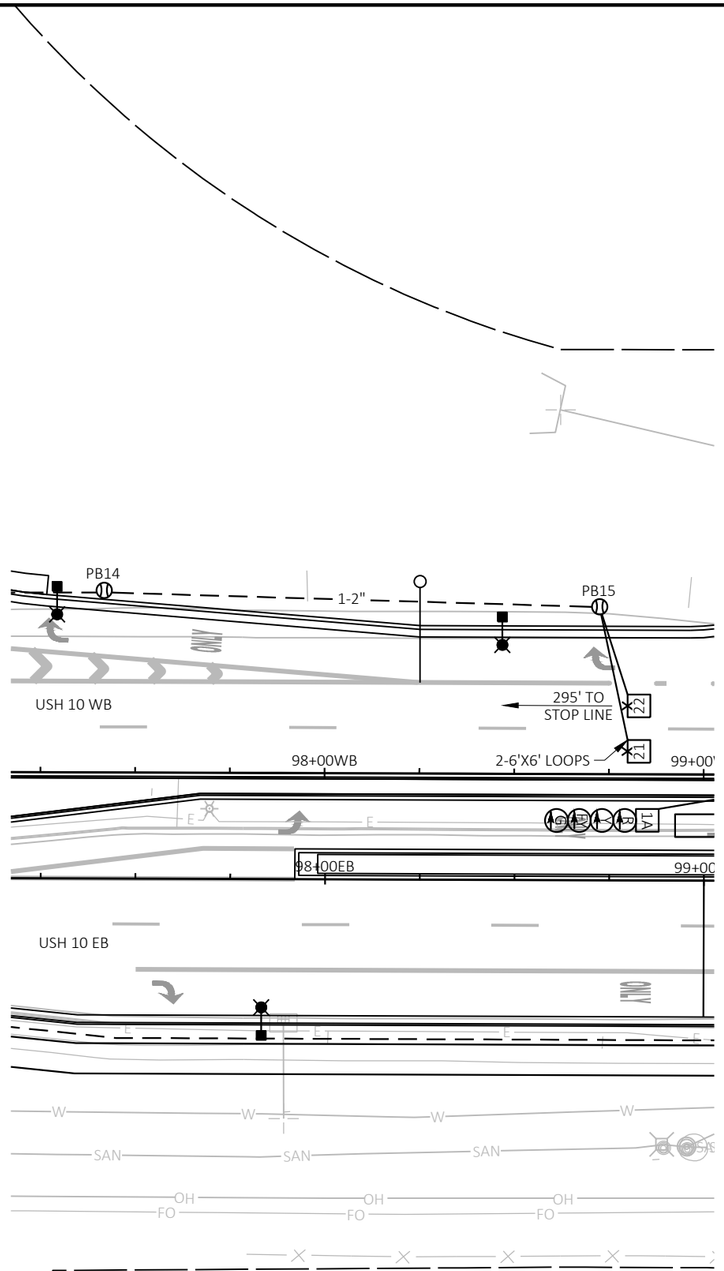
REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN	SHEET 151	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 03A
PLOT DATE : 3/16/2021 7:12 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

CONSTRUCTION NOTES:

1. X-LOCATION IS TO FRONT CENTER OF DETECTOR LOOP. LOOP SHALL BE CENTERED IN TRAFFIC LANE. INSTALL LOOPS IN THE AGGREGATE BASE COURSE. DISTANCE BETWEEN MULTIPLE STOP LINE LOOPS SHALL BE 8 FEET.
2. ALL SIGNAL EQUIPMENT SHALL BE INSTALLED WITH A 2-FOOT MINIMUM, 3-FOOT DESIRABLE CLEARANCE TO THE FACE OF CURB, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
3. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED BEFORE PLACING SIGNAL CABLE INTO THE SYSTEM.
4. ALL WISDOT LUMINARIES SHOWN ARE 120 VOLT, CATEGORY C LED (LUMINAIRE ARM LENGTHS VARY - REFERENCE QUANTITY LISTING).
5. EACH LOOP DETECTOR SHALL HAVE A SEPARATE LEAD-IN CABLE TO THE CONTROL CABINET.
6. FURNISH AND INSTALL FOLDING STOP SIGNS (36"X36") ON SIGNAL BASES (SB2, SB3, SB6, SB7, SB8, SB9, SB14, AND SB15).
7. LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
8. THE ENGINEER WILL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICTS WITH EXISTING UTILITY FACILITIES.
9. ALL CONDUIT RUNS SHALL HAVE EXTRA PULL-WIRE INSTALLED TO PULL FUTURE CABLE. COST WILL BE INCIDENTAL TO THE TRAFFIC SIGNAL CABLE NO. 14.
10. INSTALL 9-FT SIGNAL STANDARDS AT (SB13)
    INSTALL 13-FT SIGNAL STANDARDS AT (SB2, SB4, SB6, SB7, SB9, SB11, SB14, SB15)
    INSTALL 15-FT SIGNAL STANDARDS AT (SB3)
    INSTALL TYPE 4 (30-FT) POLES AT (SB1, SB8, SB10)
    INSTALL TYPE 5 (30-FT) POLES AT (LB1, LB2, LB3, LB4, LB5, LB6, LB7, LB8)
    INSTALL TYPE 10 (OVER HEIGHT) MONOTUBE, 25-FT ARM AT (SB12)
    INSTALL TYPE 10 (OVER HEIGHT) MONOTUBE, 30-FT ARM AT (SB5)



TRAFFIC CONTROL SIGNAL
USH 10/STH 66 & IH 39/USH 51 NB RAMP
CITY OF STEVENS POINT
PORTAGE COUNTY

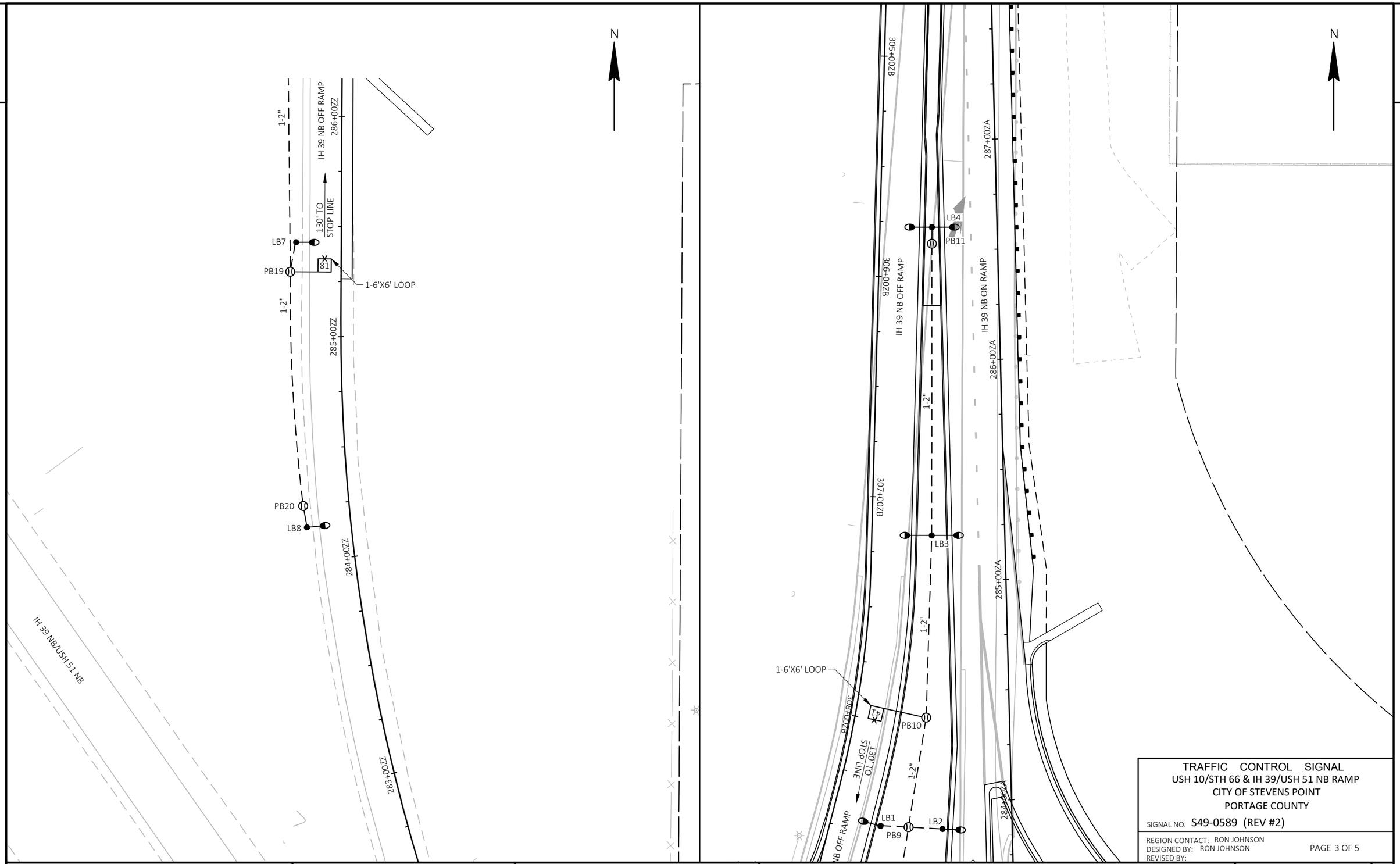
SIGNAL NO. S49-0589 (REV #2)

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PAGE 2 OF 5

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN	SHEET 152	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 03B
PLOT DATE : 3/16/2021 7:12 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT



TRAFFIC CONTROL SIGNAL
USH 10/STH 66 & IH 39/USH 51 NB RAMP
CITY OF STEVENS POINT
PORTAGE COUNTY

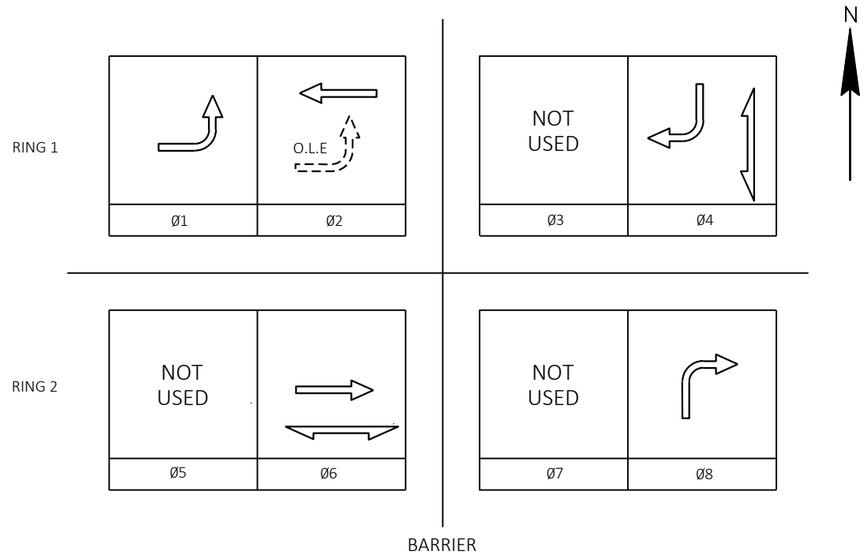
SIGNAL NO. S49-0589 (REV #2)

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN	SHEET 153	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 03C
PLOT DATE : 3/16/2021 7:12 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	1A,1B,1C	-
Ø2	2A,2B,2C,2D	R
Ø3		
Ø4	4A,4B,4C,4D	R
Ø5		-
Ø6	6A,6B,6C	R
Ø7		
Ø8	8A,8B,8C,8D	R
Ø2 PED		
Ø4 PED	4-1,4-2	-
Ø6 PED	6-1,6-2	-
Ø8 PED		-
OL "E"	1A,1B,1C	R
OL "F"		
OL "G"		
OL "H"		



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				
6	X	2	MIN	X
7				
8		4		X

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
O.L."E"	1	2
O.L."F"	--	--
O.L."G"	--	--
O.L."H"	--	--

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

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-49-0130

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

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)	61	11	21	41	42	81	82	
PHASE CALLED	6	1	2		4		8	
CALL OPTION	X	X	X		X		X	
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	
EXTEND TIME	5.0	2.0	5.0	2.0	2.0	2.0	2.0	
USE ADDED INITIAL	X		X					
STRETCH TIME				1.0		1.0		
LOOP SIZE (FTxFT)	6X6	6X20	6X6	6X6	6X20	6X6	6X20	
NUMBER TURNS	4	3	4	4	3	4	3	

DETECTOR INPUT	19	17	23	21	27	25	31	29
DETECTOR #(S)								
PHASE CALLED								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
STRETCH TIME								
LOOP SIZE (FTxFT)								
NUMBER TURNS								

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)	62	12	22		43		8.3	
PHASE CALLED	6	1	2		4		8	
CALL OPTION	X	X	X		X		X	
DELAY TIME								
EXTENTION OPTION	X	X	X		X		X	
EXTEND TIME	5.0	2.0	5.0		2.0		2.0	
USE ADDED INITIAL	X		X					
STRETCH TIME								
LOOP SIZE (FTxFT)	6X6	6X20	6X6		6X20		6X20	
NUMBER TURNS	4	3	4		3		3	

DETECTOR INPUT	20	18	24	22	28	26	32	30
DETECTOR #(S)								
PHASE CALLED								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
STRETCH TIME								
LOOP SIZE (FTxFT)								
NUMBER TURNS								

OVERLAPS

O.L."A"	NONE
O.L."B"	NONE
O.L."C"	NONE
O.L."D"	NONE

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

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL.
3. WHEN OPPOSING THROUGH PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

TRAFFIC CONTROL SIGNAL
USH 10/STH 66 & IH 39/USH 51 NB RAMP
CITY OF STEVENS POINT
PORTAGE COUNTY

SIGNAL NO. S49-0589 (REV #2)

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN - SEQUENCE OF OPERATION	SHEET 154	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 03D
PLOT DATE : 3/16/2021 7:12 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

PROJECT ID:	6290-09-70
INTERSECTION:	USH 10/STH 66 @ USH 51 NB RAMP

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

CB2 TO	JUMPER	AWG 14 # OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR									
					RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	Flashing Yellow	D/Walk	Walk	Ped Button
SB1		5	4-2	PED 4								RED	GRN	BLK
SB2		5	6A	6				RED	ORG	GRN				
SB3		9	1A	1				RED	ORG	GRN	BLK			
			4-1	PED 4								RED/BLK	GRN/BLK	WHT/BLK
SB4		5	4C	4				RED	ORG	GRN				
SB5		9	4B	4				RED	ORG	GRN				
			2B&2C	2	RED/BLK	ORG/BLK	GRN/BLK							
SB6		5	4A	4				RED	ORG	GRN				
SB7		5	4D	4				RED	ORG	GRN				
SB8		9	2A	2	RED	ORG	GRN							
			1C	1				RED/BLK	ORG/BLK	GRN/BLK	BLK			
SB9		5	2D	2	RED	ORG				GRN				
SB10		5	1B	1				RED	ORG	BRN	BLK			
SB11		5	8C	8				RED	ORG	GRN				
SB12		9	8B	8				RED/BLK	ORG/BLK	GRN/BLK				
			6B&6C	6	RED	ORG	GRN							
SB13		5	6-2	PED 6								RED	GRN	BLK
SB14		5	8A	8				RED	ORG	GRN				
SB15		9	8D	8				RED	ORG	GRN				
			6-1	PED 6								RED/BLK	GRN/BLK	WHT/BLK

Equipment grounding conductor 10 AWG Green XLP	
From	To
CB3	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	LB1
LB1	LB2
LB2	LB3
LB3	LB4
LB4	SB8
SB8	LB5
LB5	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	CB3
CB3	LB6
LB6	LB7
LB7	LB8
LB8	CB3

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To

Lighting UF #12/2 w/ground	
From	To
CB3	SB1
CB3	SB5
CB3	LB1
CB3	LB2
CB3	LB3
CB3	LB4
CB3	SB8
CB3	SB10
CB3	SB12
CB3	LB5
CB3	LB6
CB3	LB7
CB3	LB8

Emergency Vehicle Preemption	
From	To

*USE THE WHITE CONDUCTOR IN THE CABLE ASSEMBLY AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATION
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12 INCHES LONGER THAN THE UNGROUNDED
*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.
*"OTHER" COLUMN MAY INCLUDE SHADOW BOX SIGN

TRAFFIC CONTROL SIGNAL
USH 10/STH 66 & IH 39/USH 51 NB RAMP
CITY OF STEVENS POINT
PORTAGE COUNTY

SIGNAL NO. S49-0589 (REV #2)

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN - CABLE ROUTING	SHEET 155	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 03E
PLOT DATE : 3/16/2021 7:12 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

MONOTUBE STRUCTURE NUMBERS	
BASE #	STRUCTURE #
SB6	S-49-38-1
SB8	S-49-38-2
SB14	S-49-38-3
SB15	S-49-38-4

LEGEND

- SIGNAL CONTROL CABINET (TYPE 9 SPECIAL)
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD PEDESTAL MOUNT, BASE TYPE 1 (WITH BACKPLATE)
- SIGNAL HEAD/LUMINAIRE POLE TYPE 4, BASE TYPE 2 (WITH BACKPLATE)
- 15'-30' — SIGNAL HEAD, MONOTUBE TYPE 10 (OVER HEIGHT) BASE TYPE 10 (WITH BACKPLATES)
- 35'-45' — SIGNAL HEAD, MONOTUBE TYPE 9 SPECIAL BASE TYPE 10 SPECIAL (WITH BACKPLATES)
- 35'-55' — SIGNAL HEAD, MONOTUBE TYPE 13 (OVER HEIGHT) BASE TYPE 13 (WITH BACKPLATES)
- LOCALLY MAINTAINED LUMINAIRE (EXISTING)
- PULL BOX NON-CONDUCTIVE, 24" X 42"
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT SIDE PULL LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL BOX OFF ROADWAY (OPTION 2) X LOCATION IS TO "FRONT CENTER" OF DETECTOR LOOP
- XX — SIGNAL HEAD NUMBER
- LANE DESIGNATION FOR INFO ONLY
- PEDESTRIAN CONDITION SIGNAL
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- RA — RED ARROW
- FY — FLASHING YELLOW ARROW
- YA — YELLOW ARROW
- GA — GREEN ARROW
- Y — YIELD SIGN

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING

REV. NO.				
2/14/08	INSTALLED NEW EAGLE EPAC CONTROLLER AND EDI CONFLICT MONITOR.			
12/6/02	INSTALLED ISLANDS, AND PHASE 2 PED SIGNALS.			
2/20/97	INSTALLED PHASE 8 PED SIGNALS.			
4	GEOMETRIC IMPROVEMENTS RECONSTRUCT ENTIRE TRAFFIC SIGNAL.			
	APPROVAL RECOMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY

CONFIGURATION WITH HEAD NUMBERS				
3-V	3-V AHEAD	3-V LEFT	4-V LEFT	PED
2A, 2B, 2C, 2D, 4A, 4B, 4C, 6A, 6B, 6C, 8A, 8B, 8C	2E, 6D	OLA-1, OLA-2, OLA-3, OLB-1, OLB-2, OLB-3	1A, 1B, 1C, 3A, 3B, 5A, 5B, 5C, 7A, 7B	6-1, 6-2, 6-3, 6-4, 8-1, 8-2, 8-3, 8-4

TRAFFIC CONTROL SIGNAL

USH 10 & MAPLE BLUFF ROAD/OLD HWY 18
CITY OF STEVENS POINT
PORTAGE COUNTY

SIGNAL NO. S49-0464
CABINET TYPE: TS2
CONTROLLER TYPE: COBALT

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 9/6/91 — C.A. DEVINE, REGION TRAFFIC ENGINEER

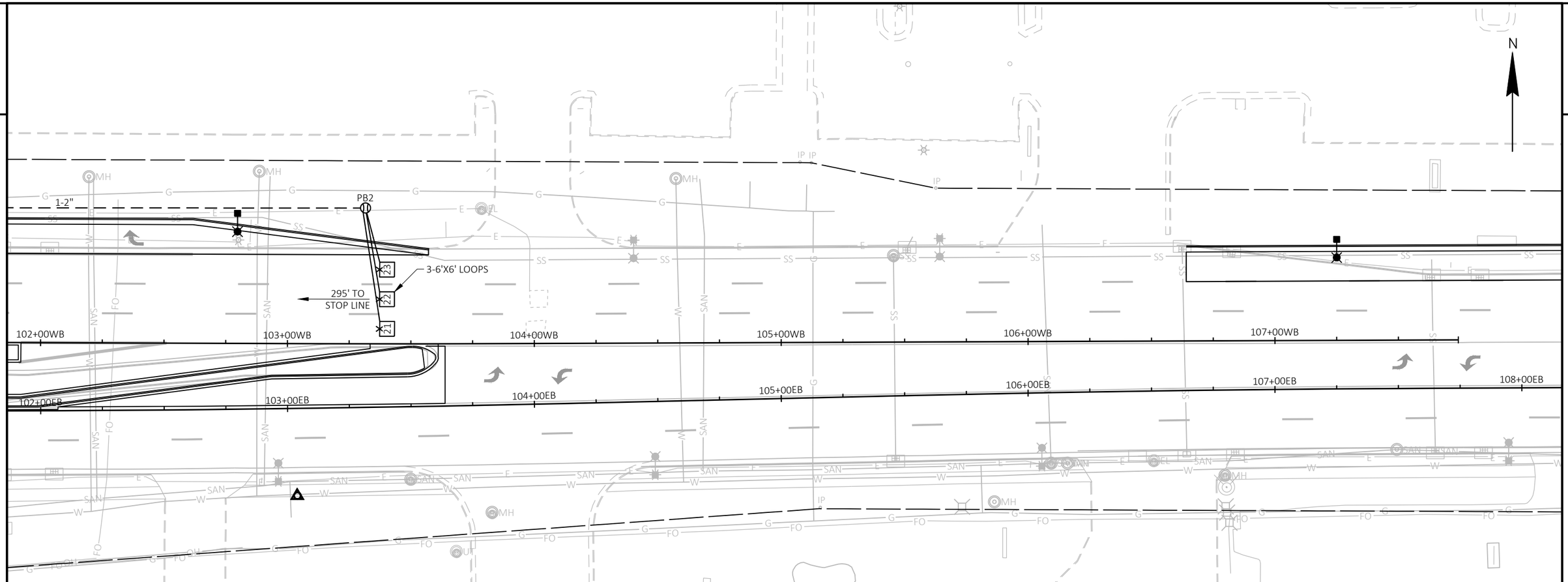
APPROVED
DATE 7/11/96 — BALU A, STATE TRAFFIC ENGINEER

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN	SHEET 156	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 04A
PLOT DATE : 3/16/2021 7:13 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



CONSTRUCTION NOTES:

1. X-LOCATION IS TO FRONT CENTER OF DETECTOR LOOP. LOOP SHALL BE CENTERED IN TRAFFIC LANE. INSTALL LOOPS IN THE AGGREGATE BASE COURSE. DISTANCE BETWEEN MULTIPLE STOP LINE LOOPS SHALL BE 8 FEET.
2. ALL SIGNAL EQUIPMENT SHALL BE INSTALLED WITH A 2-FOOT MINIMUM, 3-FOOT DESIRABLE CLEARANCE TO THE FACE OF CURB, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
3. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED BEFORE PLACING SIGNAL CABLE INTO THE SYSTEM.
4. ALL WISDOT LUMINARIES SHOWN ARE 120 VOLT, CATEGORY C LED (LUMINAIRE ARM LENGTHS VARY - REFERENCE QUANTITY LISTING).
5. EACH LOOP DETECTOR SHALL HAVE A SEPARATE LEAD-IN CABLE TO THE CONTROL CABINET.
6. FURNISH AND INSTALL FOLDING STOP SIGNS (36"X36") ON SIGNAL BASES (SB1, SB2, SB5, SB8, SB9, SB10, SB12, SB13, SB15, AND SB16).
7. LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
8. THE ENGINEER WILL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICTS WITH EXISTING UTILITY FACILITIES.
9. ALL CONDUIT RUNS SHALL HAVE EXTRA PULL-WIRE INSTALLED TO PULL FUTURE CABLE. COST WILL BE INCIDENTAL TO THE TRAFFIC SIGNAL CABLE NO. 14.
10. INSTALL 9-FT SIGNAL STANDARDS AT (SB4, SB7)
    INSTALL 13-FT SIGNAL STANDARDS AT (SB3, SB5, SB11, SB13)
    INSTALL 15-FT SIGNAL STANDARDS AT (SB2, SB9, SB12, SB16)
    INSTALL TYPE 4 (30-FT) POLES AT (SB1, SB10, LB1, LB2)
    INSTALL TYPE 9 SPECIAL MONOTUBE, 45-FT SPECIAL ARMS AT (SB8, SB15)
    INSTALL TYPE 10 (OVER HEIGHT) MONOTUBE, 30-FT ARMS AT (SB6)
    INSTALL TYPE 13 (OVER HEIGHT) MONOTUBE, 45-FT ARMS AT (SB14)

TRAFFIC CONTROL SIGNAL
USH 10 & MAPLE BLUFF ROAD/OLD HWY 18
CITY OF STEVENS POINT
PORTAGE COUNTY

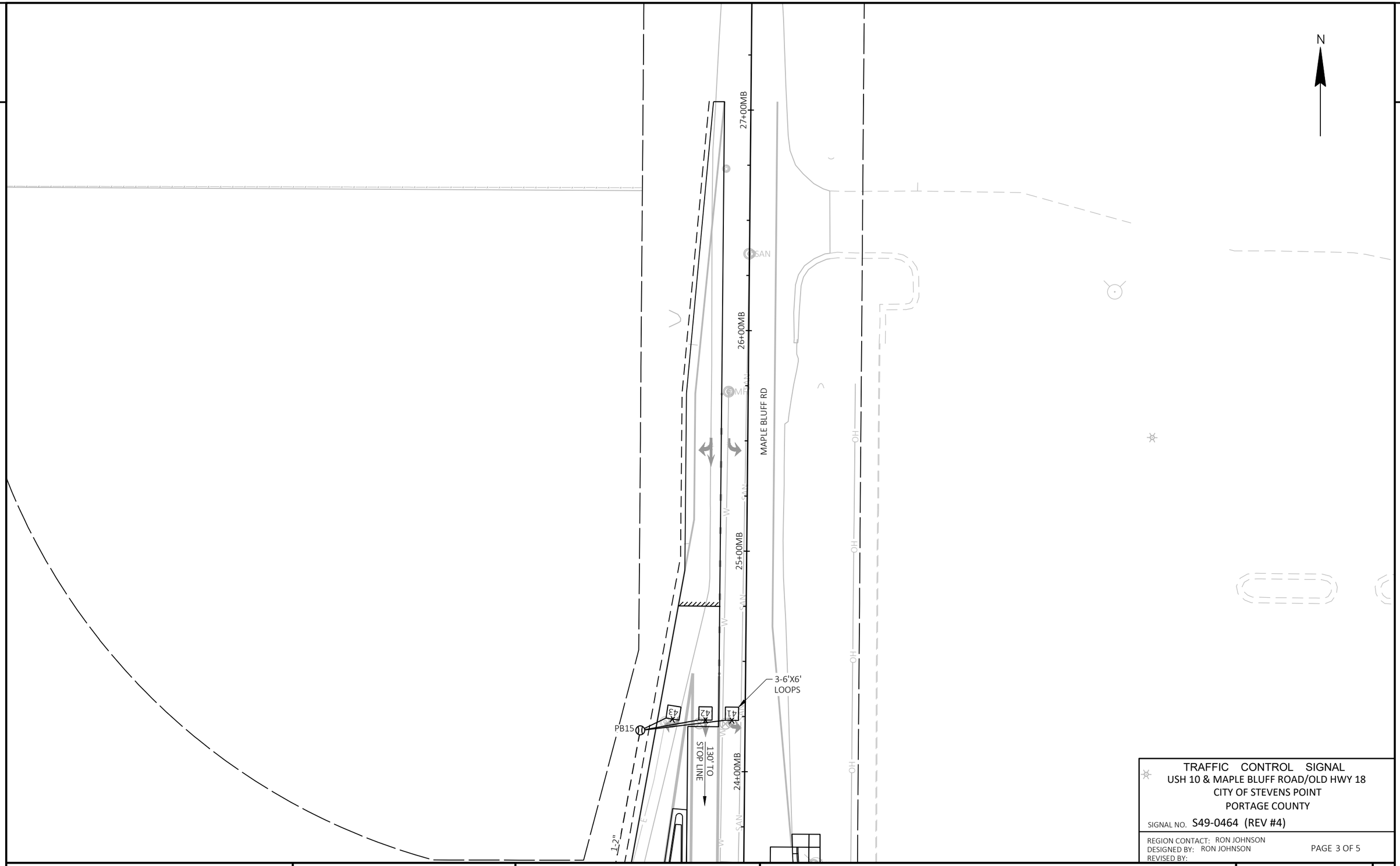
SIGNAL NO. S49-0464 (REV #4)

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN	SHEET 157	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 04B
PLOT DATE : 3/16/2021 7:13 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL SIGNAL
USH 10 & MAPLE BLUFF ROAD/OLD HWY 18
CITY OF STEVENS POINT
PORTAGE COUNTY

SIGNAL NO. S49-0464 (REV #4)

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

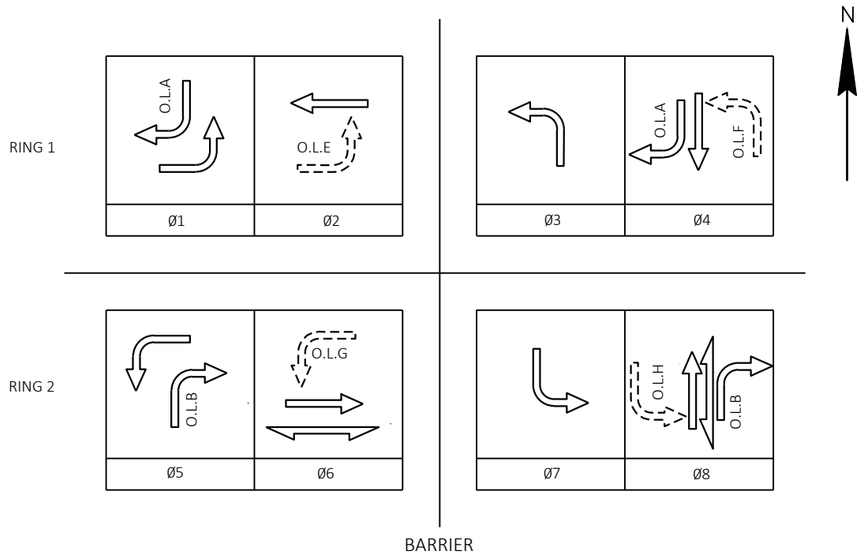
PAGE 3 OF 5

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN	SHEET 158	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 04C

PLOT DATE : 3/16/2021 7:13 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	1A,1B,1C	-
Ø2	2A,2B,2C,2D,2E	R
Ø3	3A,3B	-
Ø4	4A,4B,4C	R
Ø5	5A,5B,5C	-
Ø6	6A,6B,6C,6D	R
Ø7	7A,7B	-
Ø8	8A,8B,8C	R
Ø2 PED		
Ø4 PED		
Ø6 PED	6-1,6-2,6-3,6-4	-
Ø8 PED	8-1,8-2,8-3,8-4	-
OL "A"	OLA-1,OLA-2,OLA-3	R
OL "B"	OLB-1,OLB-2,OLB-3	R
OL "C"		
OL "D"		
OL "E"	1A,1B,1C	R←
OL "F"	3A,3B	R←
OL "G"	5A,5B,5C	R←
OL "H"	7A,7B	R←



CONTROLLER LOGIC

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

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
O.L."E"	1	2
O.L."F"	3	4
O.L."G"	5	6
O.L."H"	7	8

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

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-49-0130

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

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)	61	11	21	51	41	44/45	71	81
PHASE CALLED	6	1	2	5		4	7	
CALL OPTION	X	X	X	X		X	X	
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME	5.0	2.0	5.0	2.0	2.0	2.0	2.0	2.0
USE ADDED INITIAL	X		X					
STRETCH TIME					1.0			1.0
LOOP SIZE (FTxFT)	6X6	6X20	6X6	6X20	6X6	6X20	6X20	6X6
NUMBER TURNS	4	3	4	3	4	3	3	4

DETECTOR INPUT	19	17	23	21	27	25	31	29
DETECTOR #(S)	83/84	31						
PHASE CALLED	8	3						
CALL OPTION	X	X						
DELAY TIME								
EXTENTION OPTION	X	X						
EXTEND TIME	2.0	2.0						
USE ADDED INITIAL								
STRETCH TIME								
LOOP SIZE (FTxFT)	6X20	6X20						
NUMBER TURNS	3	3						

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)	62	12	22/23	52	42/43	OLA-1/2	72	82
PHASE CALLED	6	1	2	5		4	7	
CALL OPTION	X	X	X	X		X	X	
DELAY TIME						8.0		
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME	5.0	2.0	5.0	2.0	2.0	2.0	2.0	2.0
USE ADDED INITIAL	X		X					
STRETCH TIME					1.6			1.0
LOOP SIZE (FTxFT)	6X6	6X20	6X6	6X20	6X6	6X20	6X20	6X6
NUMBER TURNS	4	3	4	3	4	3	3	4

DETECTOR INPUT	20	18	24	22	28	26	32	30
DETECTOR #(S)	OLB-1/2	32						
PHASE CALLED	8	3						
CALL OPTION	X	X						
DELAY TIME	8.0							
EXTENTION OPTION	X	X						
EXTEND TIME	2.0	2.0						
USE ADDED INITIAL								
STRETCH TIME								
LOOP SIZE (FTxFT)	6X20	6X20						
NUMBER TURNS	3	3						

OVERLAPS

O.L."A"	1.4
O.L."B"	5.8
O.L."C"	NONE
O.L."D"	NONE

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

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL.
3. WHEN OPPOSING THROUGH PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

TRAFFIC CONTROL SIGNAL
USH 10 & MAPLE BLUFF ROAD/OLD HWY 18
CITY OF STEVENS POINT
PORTAGE COUNTY

SIGNAL NO. S49-0464 (REV #4)

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN - SEQUENCE OF OPERATION	SHEET 159	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 04D
PLOT DATE : 3/16/2021 7:13 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

PROJECT ID:	6290-09-70
INTERSECTION:	USH 10 @ MAPLE BLUFF

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

CB2 TO	JUMPER	AWG 14 # OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR									
					RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	Flashing Yellow	D/Walk	Walk	Ped Button
SB1		12	2E	2	RED/BLK	ORG/BLK				GRN/BLK				
			1B	1				RED	ORG	GRN	BLK/WHT			
			8-2/8-3	PED 8								BLK	BLU	WHT/BLK
SB2		9	5A	5				RED/BLK	BLU	GRN/BLK	BLK			
			OLB-2	OLB	RED				ORG	GRN				
SB3		5	OLB-3	OLB	RED				ORG	GRN				
SB4		5	6-4	PED 6								BLK	BLU	WHT/BLK
SB5		5	OLB-1	OLB	RED				ORG	GRN				
SB6		9	6B/6C	6	RED	ORG	GRN							
			6-2/6-3	PED 6								BLK	BLU	WHT/BLK
SB7		5	8-1	PED 8								RED	GRN	WHT/BLK
SB8		12	8A	8	RED	ORG	GRN							
			7A/7B	7				BLK/WHT	BLU/BLK	BLU	BLK			
			4C	4	RED/BLK	ORG/BLK	GRN/BLK							
SB9		15	6A	6	RED/BLK	ORG/BLK	GRN/BLK					RED	GRN	WHT/BLK
			5C	5				RED/WHT	BLU/WHT	BLK	GRN/WHT			
			6-1	PED 6								BLK/WHT	BLU	WHT/BLK
			4B	4	RED	ORG	GRN							
SB10		9	6D	6	RED	ORG				GRN				
			5B	5				RED/BLK	BLU	GRN/BLK	BLK			
SB11		5	OLA-3	OLA	RED				ORG	GRN				
SB12		9	OLA-2	OLA	RED/BLK				BLU	GRN/BLK				
			1A	1				RED	ORG	GRN	BLK			
SB13		5	OLA-1	OLA	RED				ORG	GRN				
SB14		5	2B/2C/2D	2	RED	ORG	GRN							
SB15		12	4A	4	RED/BLK	ORG/BLK	GRN/BLK							
			8C	8	RED	ORG	GRN							
			3A/3B	3				BLK/WHT	BLU/BLK	BLU	BLK			
SB16		15	8B	8	RED	ORG	GRN							
			2A	2	RED/BLK	ORG/BLK	GRN/BLK							
			1C	1				RED/WHT	BLU/WHT	GRN/WHT	BLK			
			8-4	PED 8								BLK/WHT	BLU	WHT/BLK

Equipment grounding conductor 10 AWG Green XLP	
From	To
CB4	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	LB1
LB1	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	SB16
SB16	LB2
LB2	CB4

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To

Lighting UF #12/2 w/ground	
From	To
CB4	LB1
CB4	LB2
CB4	SB1
CB4	SB6
CB4	SB10
CB4	SB14

Emergency Vehicle Preemption	
From	To

*USE THE WHITE CONDUCTOR IN THE CABLE ASSEMBLY AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATION
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12 INCHES LONGER THAN THE UNGROUNDED
*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.
*"OTHER" COLUMN MAY INCLUDE SHADOW BOX SIGN

TRAFFIC CONTROL SIGNAL
USH 10 & MAPLE BLUFF ROAD/OLD HWY 18
CITY OF STEVENS POINT
PORTAGE COUNTY

SIGNAL NO. S49-0464 (REV #4)

REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY:

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC SIGNAL PLAN - CABLE ROUTING	SHEET 160	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024201-SP.DWG
LAYOUT NAME - 04E
PLOT DATE : 3/16/2021 7:13 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

E4 - MARKING LINE EPOXY 4-INCH
E8 - MARKING LINE EPOXY 8-INCH
GE4 - MARKING LINE GROOVED WET REF EPOXY 4-INCH
GCE4 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH
GCE8 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH
SLE18 - MARKING STOP LINE EPOXY 18-INCH
DE12 - MARKING DIAGONAL EPOXY 12-INCH
CWE6 - MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
NE - MARKING ISLAND NOSE EPOXY
CE - MARKING CURB EPOXY
RL4WB - MARKING REMOVAL LINE WATER BLASTING 4-INCH
RSWB - MARKING REMOVAL SPECIAL MARKING WATER BLASTING

RADIUS POINT
① Y: 203028.5498
X: 176777.9092
② Y: 203034.8216
X: 176902.9036

RADIUS POINT
③ Y: 202906.8626
X: 176893.2638
④ Y: 202919.8658
X: 176772.0246

N

STH 66 WB
STH 66 EB
COUNTRY CLUB DRIVE
BIKE P
78+00
79+00
80+00
81+00
82+00
83+00
84+00
62+00CC
+09
+25
+75
R50'
R75'
R60'
R65'
9'
ARROW EPOXY TYPE 2
ARROW EPOXY TYPE 3
ARROW EPOXY TYPE 1
E8
E4
DOUBLE YELLOW
EXISTING MARKING
DO NOT RETRACE
SLE18
NE
CE
CWE6
6' SPACING
9' SPACING
WORD EPOXY
EXISTING WORD MARKING
RSWB
EXISTING ARROW MARKING
RSWB
RLWB4
RL4WB
E8
3' LINE 9' GAP
RL4WB

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	PAVEMENT MARKING	SHEET 161	E

2

E4 - MARKING LINE EPOXY 4-INCH
E8 - MARKING LINE EPOXY 8-INCH
GE4 - MARKING LINE GROOVED WET REF EPOXY 4-INCH
GCE4 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH
GCE8 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH
SLE18 - MARKING STOP LINE EPOXY 18-INCH
DE12 - MARKING DIAGONAL EPOXY 12-INCH
CWE6 - MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
NE - MARKING ISLAND NOSE EPOXY
CE - MARKING CURB EPOXY
RL4WB - MARKING REMOVAL LINE WATER BLASTING 4-INCH
RSWB - MARKING REMOVAL SPECIAL MARKING WATER BLASTING

RADIUS POINT
① Y: 202879.1560
X: 177580.2221

N

STH 66 WB
STH 66 EB
USH 10 EB/STH 66 EB

84+00
85+00
86+00
87+00
88+00
89+00
90+00

295+00ZC
294+00ZC
293+00ZC
271+00ZD
272+00ZD

+38
+50
+64

9'
5'

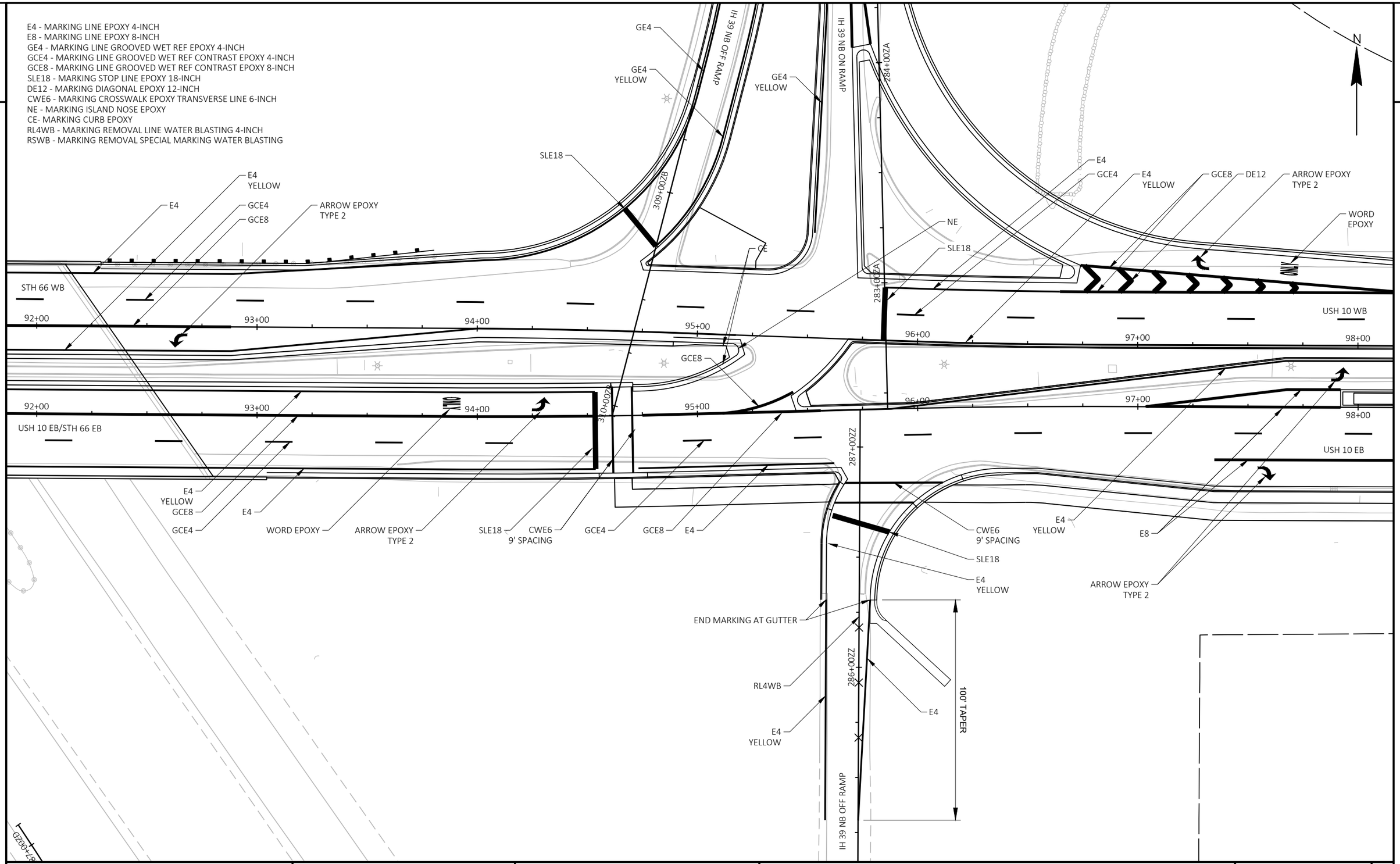
R60'

E8
E4
ARROW EPOXY TYPE 2
E8 12' SPACING
CWE6
CE
NE
SLE18
E4 YELLOW
GCE8
GCE4
ARROW EPOXY TYPE 2
E8 3' LINE 9' GAP
WORD EPOXY RETRACE EXISTING
EXISTING MARKING DO NOT RETRACE
CWE6 9' SPACING
RL4WB
WORD EPOXY
GE4 3' LINE 4' GAP
ARROW EPOXY TYPE 2 WORD EPOXY
DE12
ONLY

PROJECT NO: 1166-06-75/6290-09-71	HWY: USH 10/STH 66	COUNTY: PORTAGE	PAVEMENT MARKING	SHEET 162	E

2

E4 - MARKING LINE EPOXY 4-INCH
E8 - MARKING LINE EPOXY 8-INCH
GE4 - MARKING LINE GROOVED WET REF EPOXY 4-INCH
GCE4 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH
GCE8 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH
SLE18 - MARKING STOP LINE EPOXY 18-INCH
DE12 - MARKING DIAGONAL EPOXY 12-INCH
CWE6 - MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
NE - MARKING ISLAND NOSE EPOXY
CE- MARKING CURB EPOXY
RL4WB - MARKING REMOVAL LINE WATER BLASTING 4-INCH
RSWB - MARKING REMOVAL SPECIAL MARKING WATER BLASTING



PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PAVEMENT MARKING	SHEET 163	E

E4 - MARKING LINE EPOXY 4-INCH
E8 - MARKING LINE EPOXY 8-INCH
GE4 - MARKING LINE GROOVED WET REF EPOXY 4-INCH
GCE4 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH
GCE8 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH
SLE18 - MARKING STOP LINE EPOXY 18-INCH
DE12 - MARKING DIAGONAL EPOXY 12-INCH
CWE6 - MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
NE - MARKING ISLAND NOSE EPOXY
CE - MARKING CURB EPOXY
RL4WB - MARKING REMOVAL LINE WATER BLASTING 4-INCH
RSWB - MARKING REMOVAL SPECIAL MARKING WATER BLASTING

RADIUS POINT		RADIUS POINT	
1	Y: 203031.9189 X: 178663.8710	3	Y: 202897.4912 X: 178782.3100
2	Y: 203026.1273 X: 178798.8243	4	Y: 202903.9775 X: 178647.3921

SEE OTHER PAVEMENT MARKING SHEETS

N

MAPLE BLUFF RD
24+00MB
23+00MB
22+00MB
21+00MB
ONLY
OLD HWY 18 RD

R60'
R75'
R75'
R60'

USH 10 WB
USH 10 EB

98+00
99+00
100+00
101+00
102+00
103+00
104+00
+25
+65
+75

GCE8
GCE8
3' LINE 9' GAP
SLE18
E4
YELLOW
ARROW EPOXY
TYPE 2
CE
NE
CWE6
E8
ARROW EPOXY
TYPE 2
WORD EPOXY
ARROW EPOXY
TYPE 2
E4
E4
TWO WAY LEFT TURN LANE
YELLOW
CE
NE
CWE6
6' SPACING
E4
YELLOW
E4
ARROW EPOXY
TYPE 2
E8
ARROW EPOXY
TYPE 2
ARROW EPOXY
TYPE 2
SLE18
NE
WORD EPOXY
ARROW EPOXY
TYPE 2
E8
GCE4
ARROW EPOXY
TYPE 2
RETRACE EXISTING MARKING
MARKING REMOVAL LINE WATER BLASTING WIDE
EXISTING STOP LINE
GE4
YELLOW
3' LINE 9' GAP
RLWB4
CWE6
9' SPACING
CWE6
ARROW EPOXY
TYPE 2
ARROW EPOXY
TYPE 1
ARROW EPOXY
TYPE 2
E4
DOUBLE YELLOW
E8
EXISTING MARKING
DO NOT RETRACE

PROJECT NO: 6290-09-70	HWY:	COUNTY: PORTAGE	PAVEMENT MARKING	SHEET 164	E

E4 - MARKING LINE EPOXY 4-INCH
E8 - MARKING LINE EPOXY 8-INCH
GE4 - MARKING LINE GROOVED WET REF EPOXY 4-INCH
GCE4 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH
GCE8 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH
SLE18 - MARKING STOP LINE EPOXY 18-INCH
DE12 - MARKING DIAGONAL EPOXY 12-INCH
CWE6 - MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
NE - MARKING ISLAND NOSE EPOXY
RL4WB - MARKING REMOVAL LINE WATER BLASTING 4-INCH
RSWB - MARKING REMOVAL SPECIAL MARKING WATER BLASTING

N

E4

E4
TWO WAY LEFT TURN LANE
YELLOW

USH 10 WB

USH 10 WB

104+00 105+00 106+00 107+00

104+00 105+00 106+00 107+00 108+00 109+00 110+00

USH 10 EB

USH 10 EB

E4

EPOXY ARROW
TYPE 2

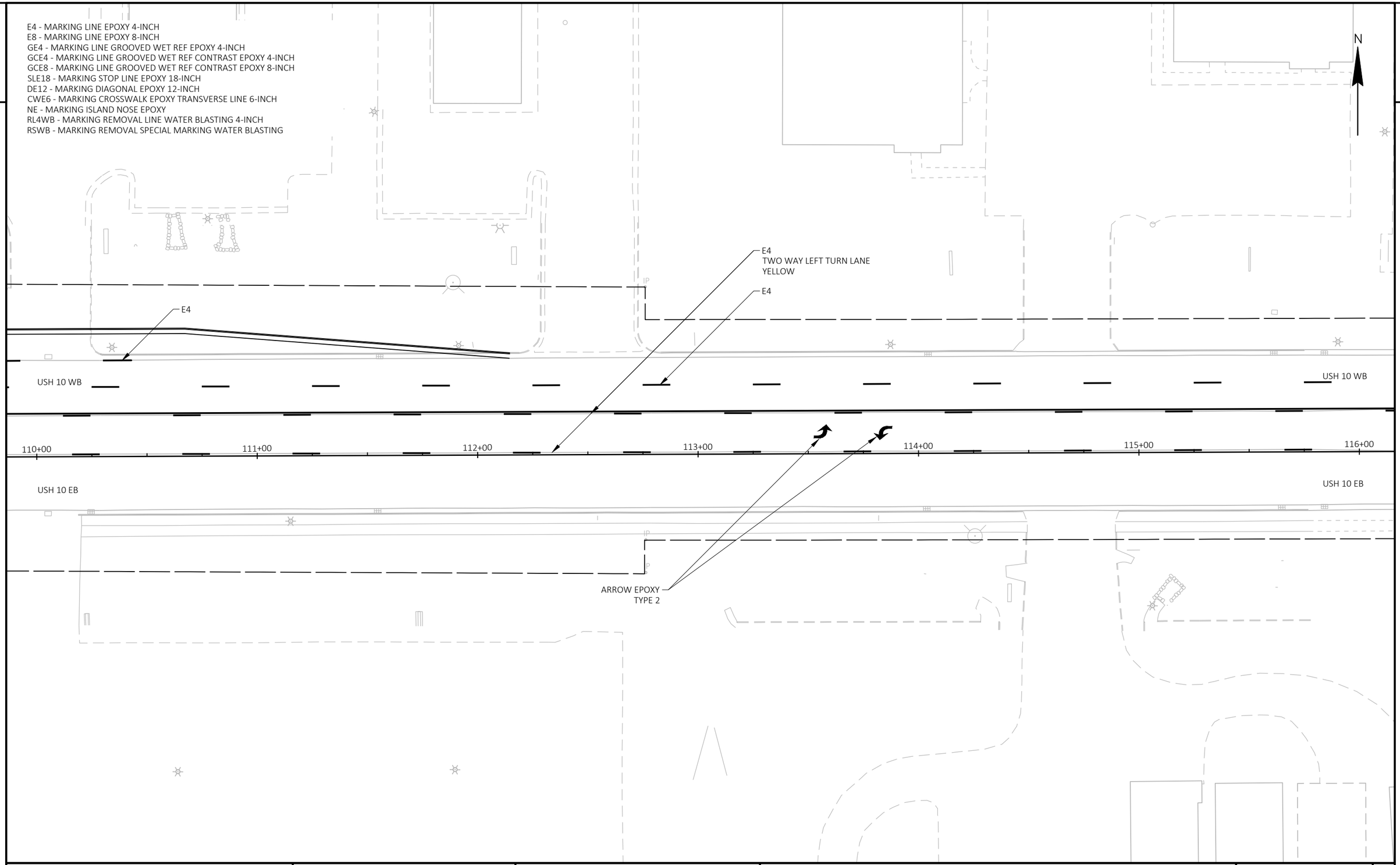
PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PAVEMENT MARKING	SHEET 165	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 05

PLOT DATE : 3/16/2021 7:06 AM PLOT BY : GRULING, ZACHARY P PLOT NAME :

2

E4 - MARKING LINE EPOXY 4-INCH
E8 - MARKING LINE EPOXY 8-INCH
GE4 - MARKING LINE GROOVED WET REF EPOXY 4-INCH
GCE4 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH
GCE8 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH
SLE18 - MARKING STOP LINE EPOXY 18-INCH
DE12 - MARKING DIAGONAL EPOXY 12-INCH
CWE6 - MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
NE - MARKING ISLAND NOSE EPOXY
RL4WB - MARKING REMOVAL LINE WATER BLASTING 4-INCH
RSWB - MARKING REMOVAL SPECIAL MARKING WATER BLASTING



PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PAVEMENT MARKING	SHEET 166	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 06

PLOT DATE : 3/16/2021 7:06 AM PLOT BY : GRULING, ZACHARY P PLOT NAME :

E4 - MARKING LINE EPOXY 4-INCH
E8 - MARKING LINE EPOXY 8-INCH
GE4 - MARKING LINE GROOVED WET REF EPOXY 4-INCH
GCE4 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH
GCE8 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH
SLE18 - MARKING STOP LINE EPOXY 18-INCH
DE12 - MARKING DIAGONAL EPOXY 12-INCH
CWE6 - MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
NE - MARKING ISLAND NOSE EPOXY
RL4WB - MARKING REMOVAL LINE WATER BLASTING 4-INCH
RSWB - MARKING REMOVAL SPECIAL MARKING WATER BLASTING

N

GE4 YELLOW
GE4
308+00ZB
307+00ZB
306+00ZB
305+00ZB
304+00ZB
303+00ZB
302+
290+00ZA
289+00ZA
IH 39 NB OFF RAMP
+82
+07
IH 39 NB ON RAMP
285+00ZA
286+00ZA
287+00ZA
288+00ZA
284+00ZA
GCE8
GE4 YELLOW
GE4
GE4 3' LINE 9' GAP
ARROW EPOXY TYPE 5
USH 10 EB
USH 10 WB

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PAVEMENT MARKING	SHEET 167	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 07
PLOT DATE : 3/16/2021 7:06 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :

2

E4 - MARKING LINE EPOXY 4-INCH
E8 - MARKING LINE EPOXY 8-INCH
GE4 - MARKING LINE GROOVED WET REF EPOXY 4-INCH
GCE4 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH
GCE8 - MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH
SLE18 - MARKING STOP LINE EPOXY 18-INCH
DE12 - MARKING DIAGONAL EPOXY 12-INCH
CWE6 - MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
NE - MARKING ISLAND NOSE EPOXY
RL4WB - MARKING REMOVAL LINE WATER BLASTING 4-INCH
RSWB - MARKING REMOVAL SPECIAL MARKING WATER BLASTING

N

ARROW EPOXY TYPE 2
ARROW EPOXY TYPE 1
E8
ARROW EPOXY TYPE 2
ARROW EPOXY TYPE 1
E8 3' LINE 9' GAP
E4
ARROW EPOXY TYPE 3
ARROW EPOXY TYPE 2

23+00MB 24+00MB 25+00MB 26+00MB 27+00MB 28+00MB 29+00MB

MAPLE BLUFF RD

WORD EPOXY
ARROW EPOXY TYPE 2
E4
ARROW EPOXY TYPE 2
EXISTING MARKING RSWB

ONLY

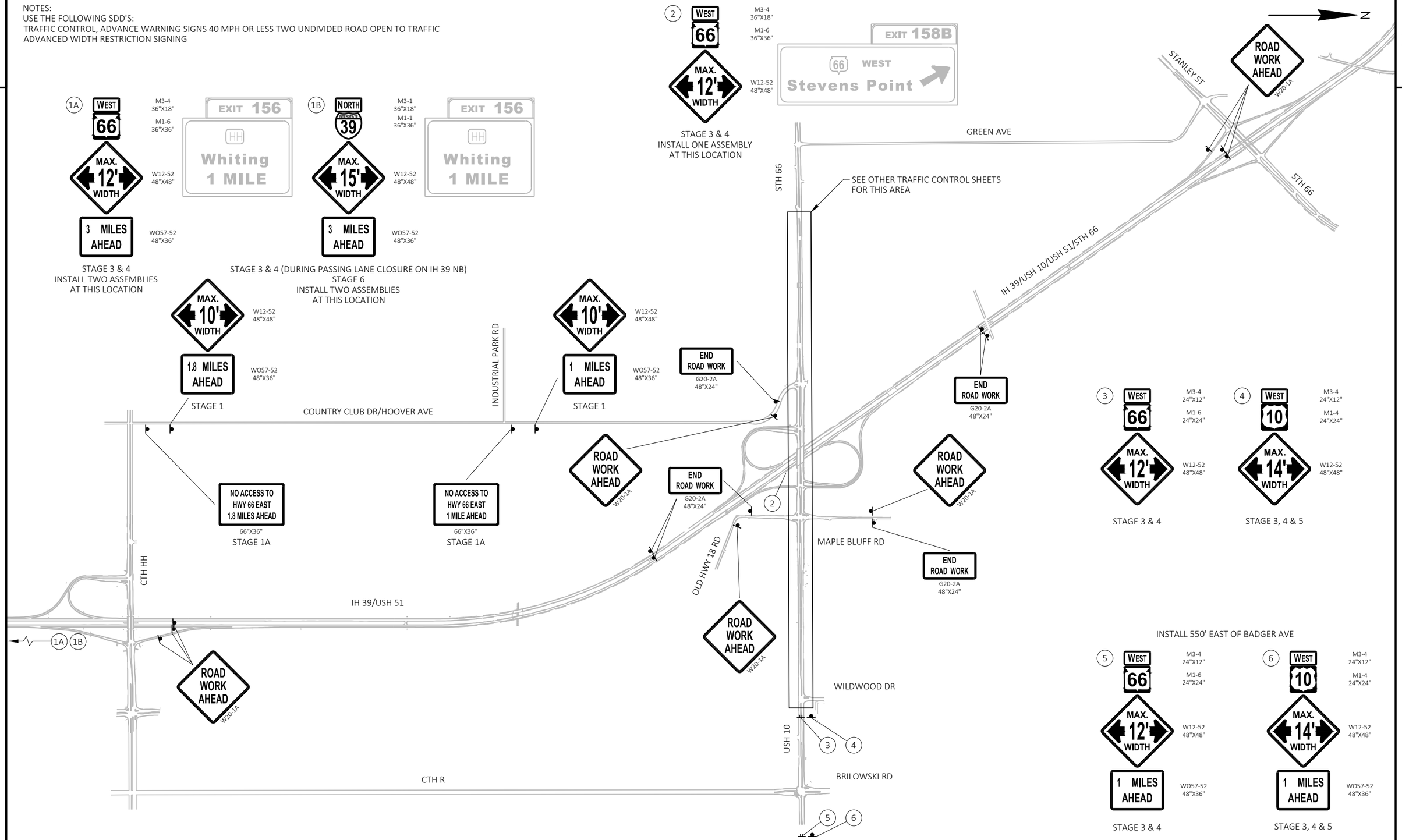
2

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PAVEMENT MARKING	SHEET 168	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 08

PLOT DATE : 3/16/2021 7:06 AM PLOT BY : GRULING, ZACHARY P PLOT NAME :

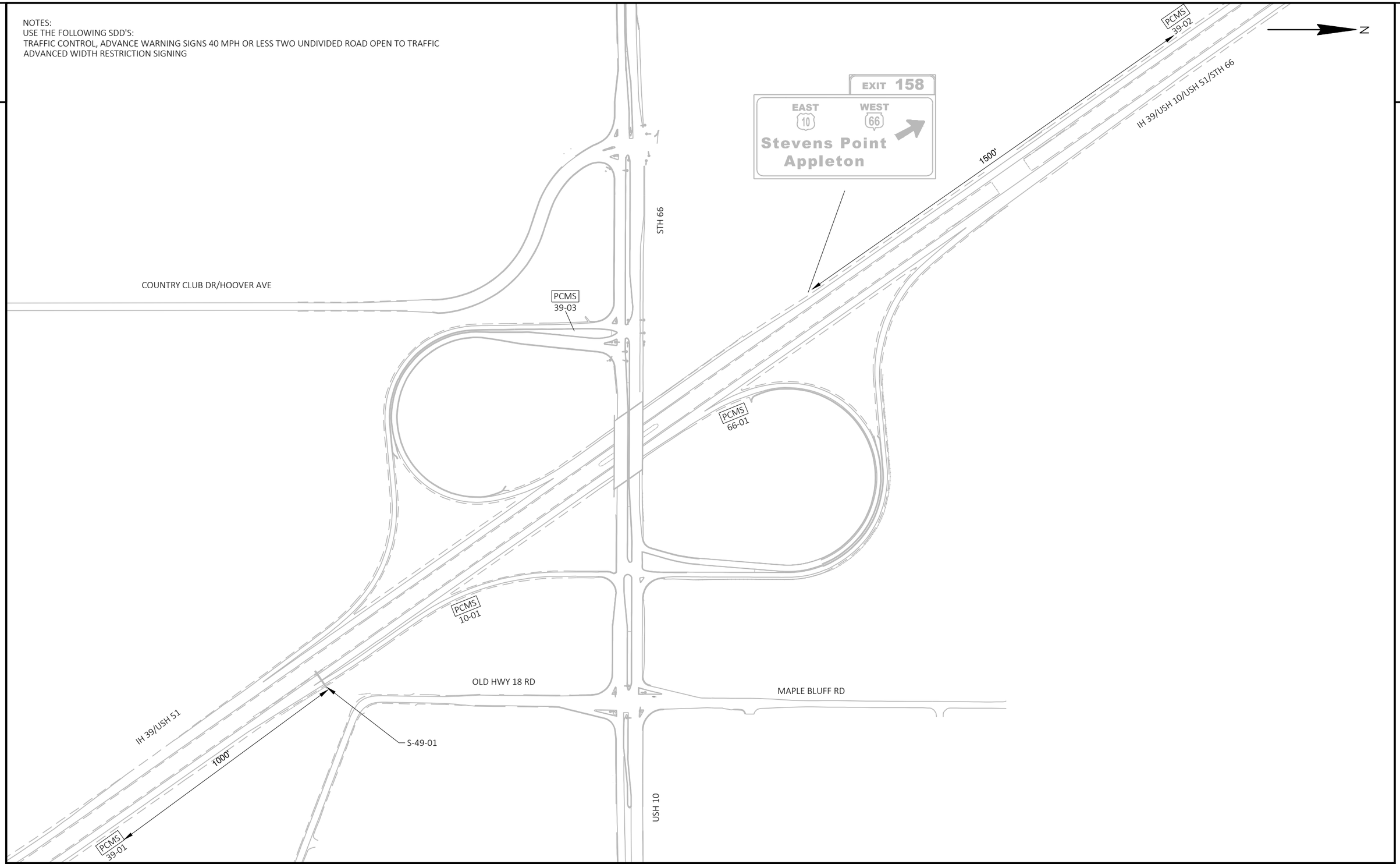
NOTES:
USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO UNDIVIDED ROAD OPEN TO TRAFFIC
ADVANCED WIDTH RESTRICTION SIGNING



PROJECT NO: 1166-06-75, 6290-09-70/71	HWY: IH 39/USH 10/STH 66	COUNTY: PORTAGE	ADVANCED WARNING SIGNING	SHEET 169	E

2

NOTES:
USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO UNDIVIDED ROAD OPEN TO TRAFFIC
ADVANCED WIDTH RESTRICTION SIGNING



2

PROJECT NO: 1166-06-75, 6290-09-70	HWY: IH 39/USH 10	COUNTY: PORTAGE	ADVANCED WARNING SIGNING - PCMS LOCATIONS	SHEET 170	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025001-AW.DWG
LAYOUT NAME - 02
PLOT DATE : 1/26/2021 9:10 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:300 FT

2

SITE	LOCATION	7 DAYS PRIOR TO CONSTRUCTION PHASE 1 3 SEC	7 DAYS PRIOR TO CONSTRUCTION PHASE 2 3 SEC	STAGE 3, 3D, 3F, AND 4D FOR 7 DAYS AFTER STAGE CHANGE PHASE 1 3 SEC	STAGE 3, 3D, 3F, AND 4D FOR 7 DAYS AFTER STAGE CHANGE PHASE 2 3 SEC
39-01	1000' SOUTH OF SIGN BRIDGE S-49-01 ON IH 39 NB	US 10 BRIDGE / ROAD	WORK BEGINS MONTH DAY		
39-02	1500' NORTH OF EXIT 158 SIGN ON IH 39 SB	US 10 BRIDGE / ROAD	WORK BEGINS MONTH DAY		
10-02	APPROX 350' EAST OF CTH R/BRILOWSKI RD ON USH 10 WB	US 10 BRIDGE / ROAD	WORK BEGINS MONTH DAY	NEW TRAFFIC PATTERN	NEW TRAFFIC PATTERN

SITE	LOCATION	3 DAYS PRIOR TO RAMP CLOSURE PHASE 1 3 SEC	3 DAYS PRIOR TO RAMP CLOSURE PHASE 2 3 SEC
39-03	IH 39 SB ON RAMP MEDIAN	RAMP TO CLOSE	MONTH DAY TIME
10-01	IH 39 NB RAMP TAPER TO EXIT 158A	RAMP TO CLOSE	MONTH DAY TIME
66-01	IH 39 NB RAMP TAPER TO EXIT 158B	RAMP TO CLOSE	MONTH DAY TIME

GENERAL NOTES FOR PORTABLE CHANGEABLE MESSAGE SIGNS

CONSIDER GEOMETRICS WHEN LOCATING MESSAGE BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE SIGN FOR A MINIMUM OF 1000 FEET IN FRONT OF THE MESSAGE BOARD.

MESSAGE SIGNS SHOULD BE PLACED AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY. IN ADVANCE OF INTERSTATE CONSTRUCTION PROJECTS, THE SIGNS SHOULD BE PLACED ON THE BACKSLOPE BEYOND THE DITCH LINE. THE LOCATIONS SELECTED SHOULD BE AT OR SLIGHTLY ABOVE THE ELEVATION OF THE ROADWAY. FOR INTERMITTANT WORK, SUCH AS FREEWAY LANE CLOSURE, OR WHERE SITE CONDITIONS DO NOT ALLOW OTHERWISE, THE SIGNS MAY BE PLACED ON THE SHOULDER.

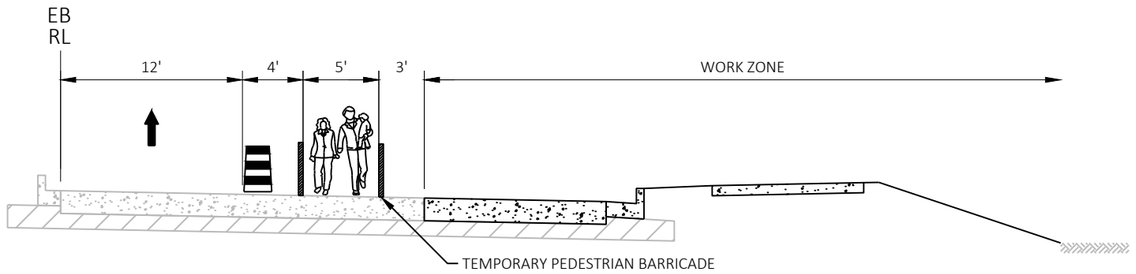
THE SITE SHOULD BE VISITED TO ASSURE VISIBILITY, SAFETY AND MAINENANCE CONSIDERATIONS.

A TAPER OF FIVE (5) REFLECTORIZED DRUMS SHALL BE PLACED AHEAD OF PCMS PLACED ON THE SHOULDER IF IT IS NOT SHIELDED BY A BARRIER.

HAVE MESSAGE BOARDS IN PLACE AND DISPLAYING THE "PRIOR TO CONSTRUCTION" MESSAGE 7 DAYS PRIOR TO EXPECTED START OF THE ROAD AND BRIDGE WORK THAT WILL REQUIRE LANE CLOSURES ON USH 10.

2

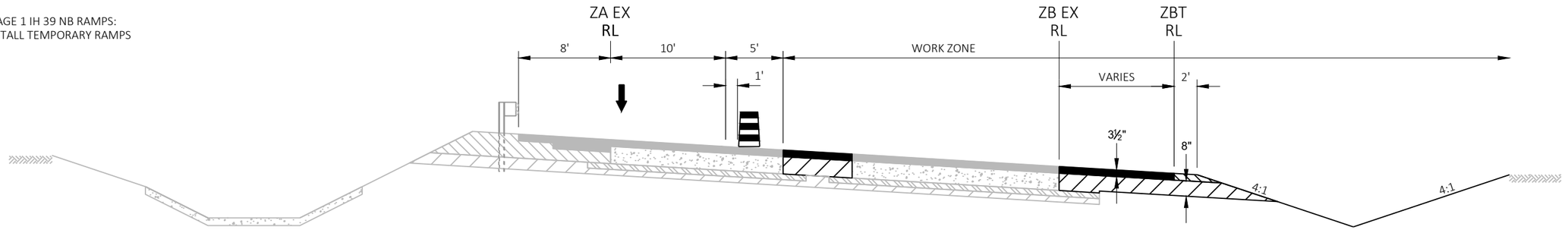
STAGE 1 STH 66 EB:
INSTALL NEW EB TO SB RIGHT TURN LANE AND ISLAND



STAGE 1 TRAFFIC CONTROL TYPICAL SECTION

STH 66 EB

STAGE 1 IH 39 NB RAMPS:
INSTALL TEMPORARY RAMPS



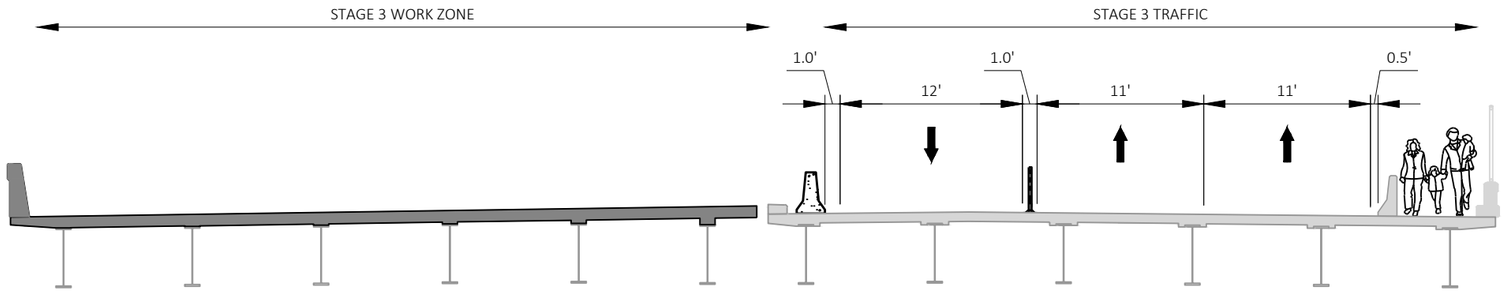
STAGE 1 TRAFFIC CONTROL TYPICAL SECTION

IH 39 NB ON RAMP

PROJECT NO: 1166-06-75, 6290-09-70	HWY: IH 39/USH 10/STH 66	COUNTY: PORTAGE	TRAFFIC CONTROL TYPICAL SECTION	SHEET 172	E

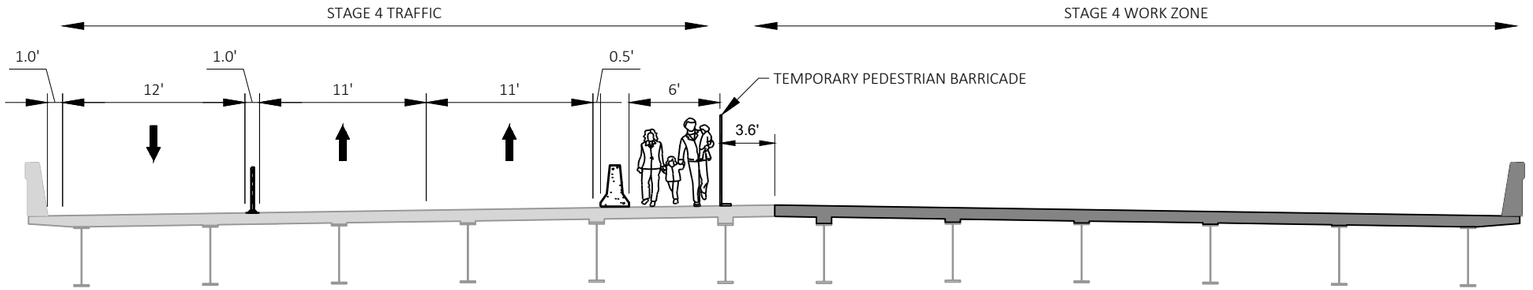
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025000-TC.DWG
LAYOUT NAME - 01
PLOT DATE : 3/29/2021 9:45 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



STAGE 3 TRAFFIC CONTROL TYPICAL SECTION

B-49-24



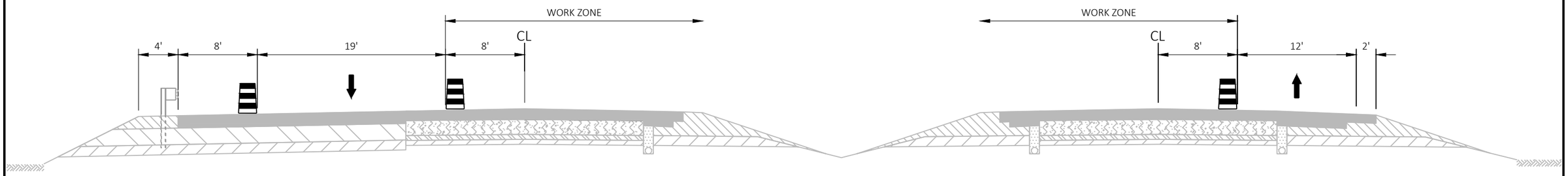
STAGE 4 TRAFFIC CONTROL TYPICAL SECTION

B-49-24

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL TYPICAL SECTION - STAGE 3 & STAGE 4	SHEET 173	E

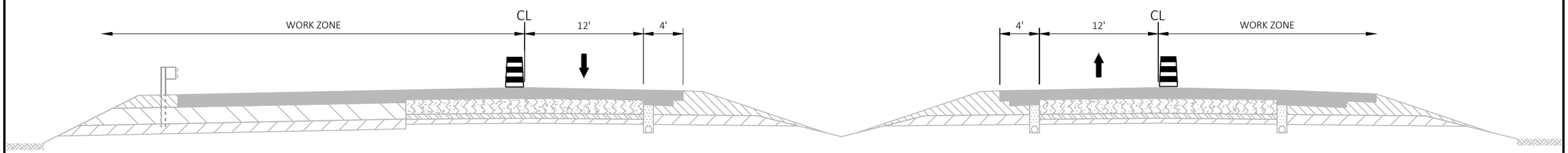
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025000-TC.DWG
LAYOUT NAME - 02
PLOT DATE : 3/29/2021 9:45 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



STAGE 3 & STAGE 4 TRAFFIC CONTROL TYPICAL SECTION IH 39

PASSING LANE CLOSURE



STAGE 3 & STAGE 4 TRAFFIC CONTROL TYPICAL SECTION IH 39

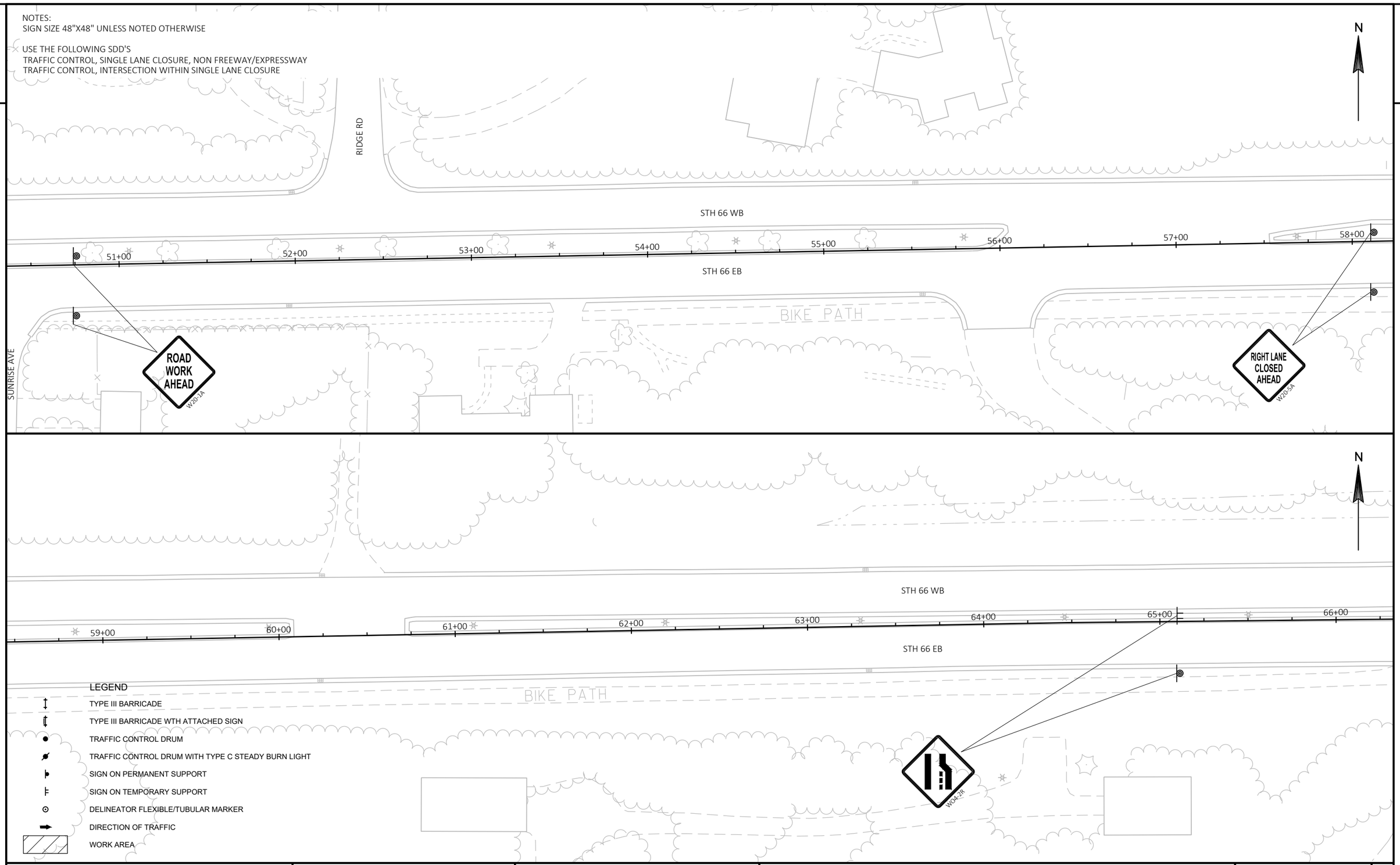
DRIVING LANE CLOSURE

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL TYPICAL SECTION	SHEET 174	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025000-TC.DWG
LAYOUT NAME - 03
PLOT DATE : 3/29/2021 9:45 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 1	SHEET 175	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025010-TCZ.DWG
LAYOUT NAME - 01

PLOT DATE : 6/29/2021 4:06 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
ON RAMP LANE CLOSURE

N

PLOVER RIVER

END ROAD WORK
G20-2A
48"X24"

TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE

STH 66 WB

STH 66 EB

67+00 68+00 69+00 70+00 71+00 72+00 73+00 74+00

50'

320' TAPER

170' BUFFER

BIKE PATH

M3-3
24"X12"

SOUTH

M1-1
24"X24"

USH 39

RAMP CLOSED AHEAD
W20-3A

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 1	SHEET 176	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

N

STH 66 WB

STH 66 EB

78+00 79+00 80+00 81+00 82+00 83+00 84+00 85+00

50'

25'

15'

BIKE PATH

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

ASPHALTIC SURFACE TEMPORARY

TEMPORARY MARKING ARROW PAINT

COUNTRY CLUB DR

62+00CC

61+00CC

END ROAD WORK
G20-2A
48"X24"

200'

ROAD WORK AHEAD
W20-1A

LEGEND

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

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

2 SOUTH 39 51 COVER

PROJECT NO: 1166-06-75/6290-09-71	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 1	SHEET 177 E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025010-TCZ.DWG
LAYOUT NAME - 03

PLOT DATE : 6/29/2021 4:07 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
ON RAMP LANE CLOSURE
BARRICADES AND SIGNS FOR VARIOUS CLOSURES

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

2 R11-2R 48" X 30" RAMP CLOSED TYPE III BARRICADE

N

Amherst
Waupaca
Portage
REMOVE

WEST 66

SOUTH SOUTH 39 51 COVER

SOUTH SOUTH 39 51 COVER

M04-5 24"X12"
M3-3 24"X12"
M1-1 24"X24"
M05-1L 21"X21"
TO SOUTH INTERSTATE 39

R3-2 24"X24"

84+00 85+00 86+00 87+00 88+00 89+00

25'

50'

50'

TEMPORARY MARKING LINE REMOVABLE TAPE
4-INCH WHITE (CROSSWALK)

SIDEWALK CLOSED
R9-9
24"X12"

TEMPORARY PEDESTRIAN SURFACE PLATE
TEMPORARY PEDESTRIAN CURB RAMP
TEMPORARY PEDESTRIAN BARRICADE

SOUTH SOUTH 39 51
MOVE
(REINSTALL AFTER RAMP IS OPEN)

ASPHALTIC SURFACE TEMPORARY

IH 39 SB OFF RAMP
ONLY ONLY ONLY

IH 39 SB ON RAMP
(CLOSED)

LEGEND

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

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 1	SHEET 178	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025010-TCZ.DWG
LAYOUT NAME - 04
PLOT DATE : 6/29/2021 4:07 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
ON RAMP LANE CLOSURE
BARRICADES AND SIGNS FOR VARIOUS CLOSURES

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

N

Wis Rapids
Portage
REMOVE

COVER

STH 66 WB

50'

89+00 90+00 91+00 92+00 93+00 94+00 95+00 96+00

USH 10 EB/STH 66 EB

IH 39 SB

IH 39 NB

IH 39 NB OFF RAMP (CLOSED)

308+00ZBT

IH 39 NB ON RAMP

284ZA

283ZA

15'

IH 39 NB OFF RAMP

MO4-5 24"X12"
M3-3 24"X12"
M1-1 24"X24"
MO5-1L 21"X21"
TO SOUTH ALTERNATE 39 NORTH WEST NORTH EAST ALTERNATE 39 10 51 66

MO4-5 24"X12"
M3-3 24"X12"
M1-1 24"X24"
MO6-1 21"X21"
TO SOUTH ALTERNATE 39 NORTH WEST NORTH EAST ALTERNATE 39 10 51 66

LEGEND

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

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 1	SHEET 179 E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025010-TCZ.DWG
LAYOUT NAME - 05
PLOT DATE : 6/29/2021 4:07 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
ON RAMP LANE CLOSURE
BARRICADES AND SIGNS FOR VARIOUS CLOSURES

TO SOUTH INTERSTATE 39 — M04-5 24"X12", M3-3 24"X12", M1-1 24"X24", M06-1 21"X21"

TO SOUTH INTERSTATE 39 NORTH WEST NORTH EAST 39 10 51 66 — M04-5 24"X12", M3-3 24"X12", M1-1 24"X24", M05-1R 21"X21"

TO SOUTH INTERSTATE 39 — M04-5 24"X12", M3-3 24"X12", M1-1 24"X24", M05-1R 21"X21"

NORTH NORTH EAST INTERSTATE 39 51 66 — SECOND RIGHT | SECOND RIGHT | SECOND RIGHT

SOUTH INTERSTATE 39 — M3-3 24"X12", M1-1 24"X24"

RAMP CLOSED AHEAD — W20-53A

RIPRAP

USH 10 WB

USH 10 EB

96+00 97+00 98+00 99+00 100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00 109+00 110+00 111+00

N

LEGEND

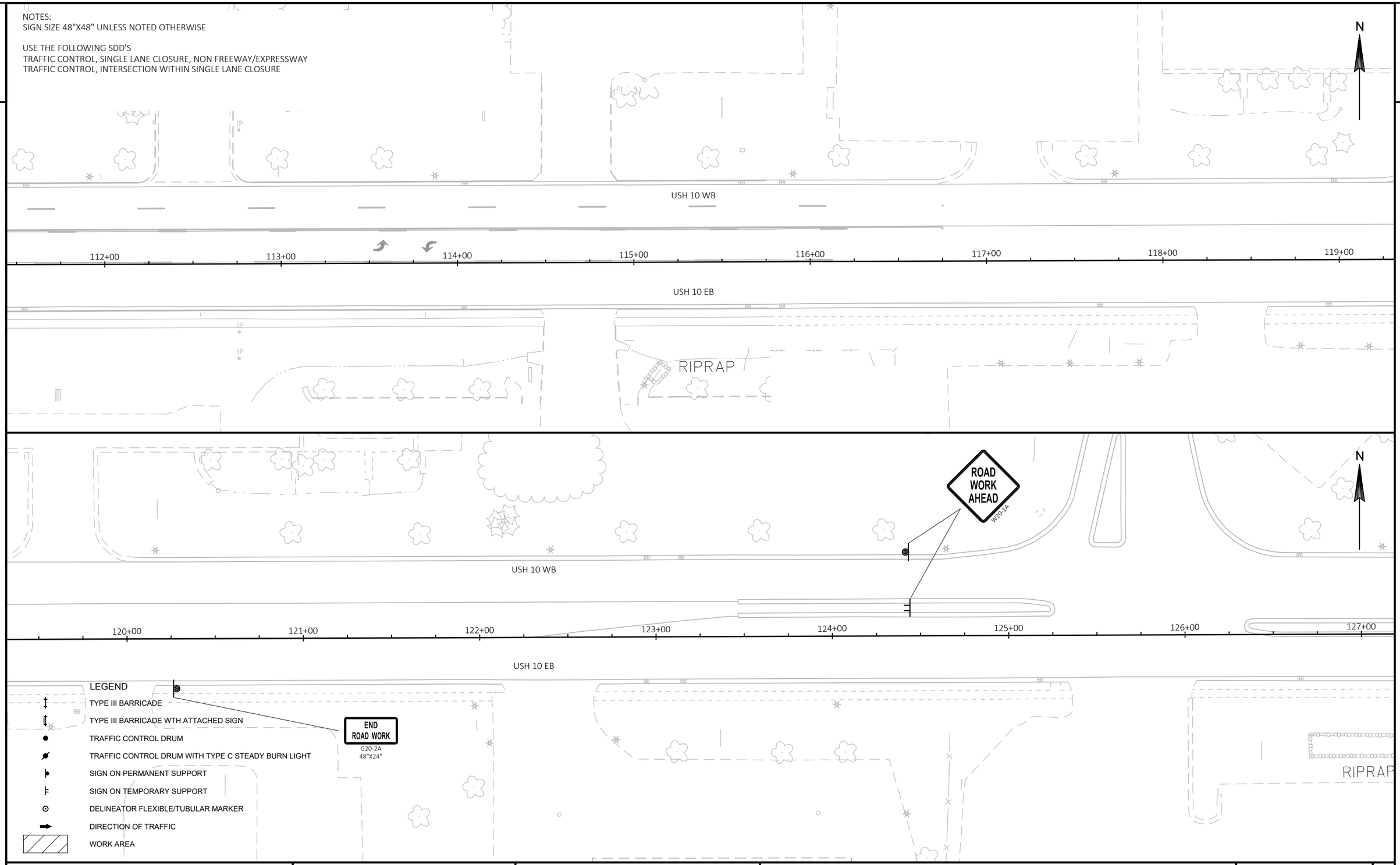
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 1	SHEET 180	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025010-TCZ.DWG
LAYOUT NAME - 06
PLOT DATE : 6/29/2021 4:08 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 1	SHEET 181	E

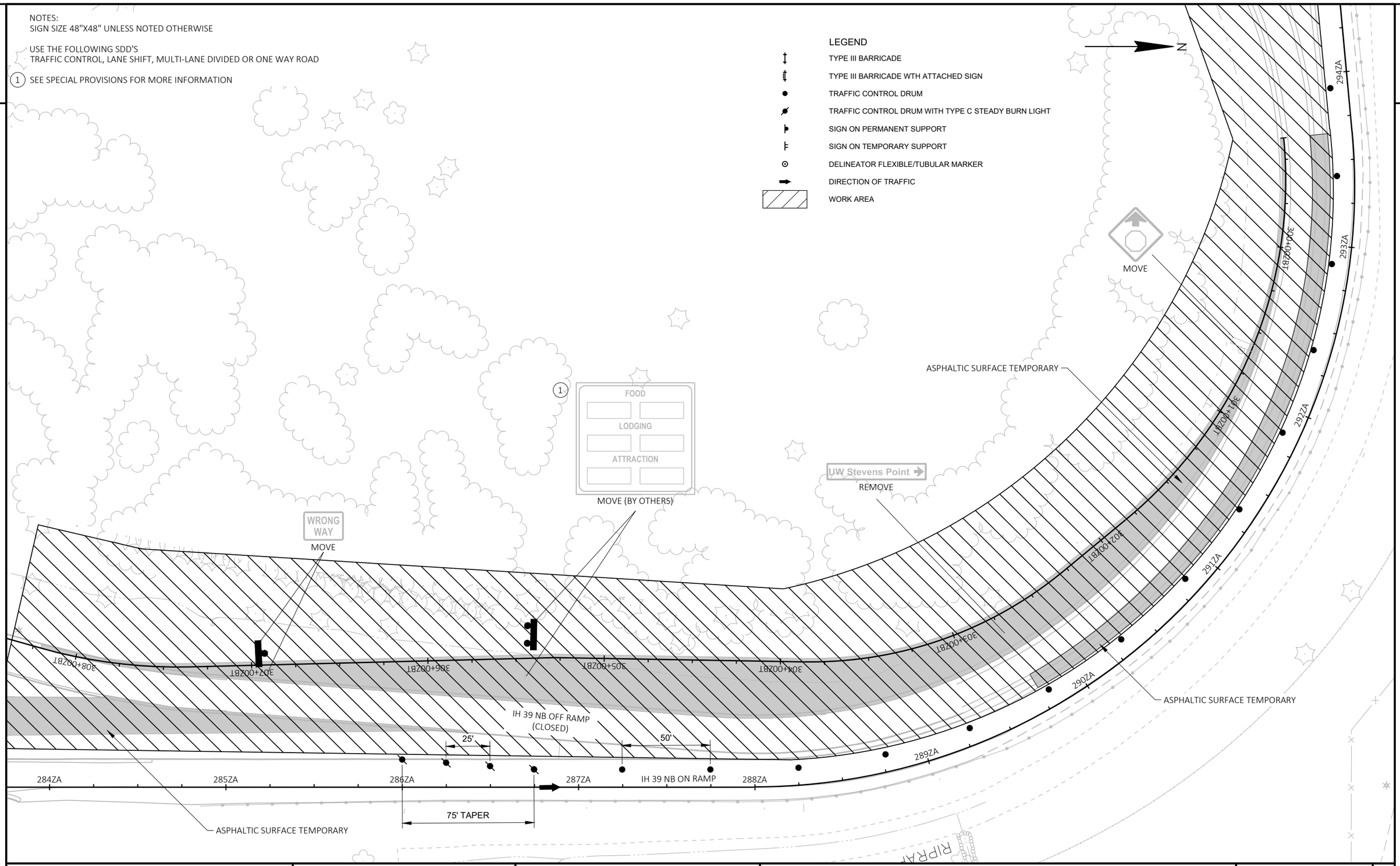
NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE WAY ROAD

(1) SEE SPECIAL PROVISIONS FOR MORE INFORMATION

LEGEND

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



PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 1	SHEET 182	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

▲TEMPORARY DETECTABLE WARNING FIELD

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION

MARKING REMOVAL LINE WIDE

STH 66 WB

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY PEDESTRIAN BARRICADE

78+00 79+00 80+00 81+00 82+00 83+00 84+00 85+00

STH 66 EB

50'

25'

50'

BIKE PATH

+10

+70

+75

7'

11'

25'

62+00CC

61+00CC

COUNTRY CLUB DR

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE (CROSSWALK)

SIDEWALK CLOSED
R9-9
24"X12"

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE (CROSSWALK)

TEMPORARY MARKING STOP LINE PAINT 18-INCH

ASPHALTIC SURFACE TEMPORARY

TEMPORARY MARKING ARROW PAINT

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH DOUBLE YELLOW

MARKING REMOVAL LINE 4-INCH DOUBLE YELLOW

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE

TEMPORARY CURB RAMP
SEE TEMPORARY CURB RAMP - STH 66 & COUNTRY CLUB DR INTERSECTION

R3-1
24"X24"

SIDEWALK CLOSED
R9-9
24"X12"

TEMPORARY PEDESTRIAN SURFACE PLATE
TEMPORARY CURB RAMP

ROAD WORK AHEAD
W20-1A

200'

END ROAD WORK
G20-2A
48"X24"

LEGEND

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

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

2 SOUTH SOUTH 39 51
COVER

PROJECT NO: 1166-06-75/6290-09-71	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 1A	SHEET 183	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025011-TCZ.DWG
LAYOUT NAME - 01

PLOT DATE : 3/30/2021 6:55 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

▲TEMPORARY DETECTABLE WARNING FIELD

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

N

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH

STH 66 WB

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY PEDESTRIAN BARRICADE

78+00 79+00 80+00 81+00 82+00 83+00 84+00 85+00

STH 66 EB

12'

15'

11'

19'

25'

BIKE PATH

BEGIN RIGHT TURN LANE

TEMPORARY PEDESTRIAN CURB RAMP

SIDEWALK CLOSED

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE (CROSSWALK)
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH WHITE

TEMPORARY MARKING ARROW REMOVABLE TAPE

COUNTRY CLUB DR

62+00CC

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH YELLOW

61+00CC

ROAD WORK AHEAD
W20-1A

200'

END ROAD WORK
G20-2A
48"X24"

LEGEND

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

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

2 SOUTH SOUTH 39 51 COVER

PROJECT NO: 1166-06-75/6290-09-71	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 1B	SHEET 184	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025012-TCZ.DWG
LAYOUT NAME - 01

PLOT DATE : 3/30/2021 7:08 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

▲TEMPORARY DETECTABLE WARNING FIELD

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

N

STH 66 WB

STH 66 EB

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY PEDESTRIAN BARRICADE

78+00 79+00 80+00 81+00 82+00 83+00 84+00 85+00

BIKE PATH

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

TEMPORARY PEDESTRIAN CURB RAMP

SIDEWALK CLOSED
R9-9
24"X12"

MARKING STOP LINE EPOXY 18-INCH

TEMPORARY MARKING ARROW REMOVABLE TAPE

63+00CC

62+00CC

61+00CC

COUNTRY CLUB DR

15'

15'

15'

200'

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

LEGEND

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

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

2 SOUTH SOUTH 39 51
COVER

PROJECT NO: 1166-06-75/6290-09-71	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 1C	SHEET 185	E

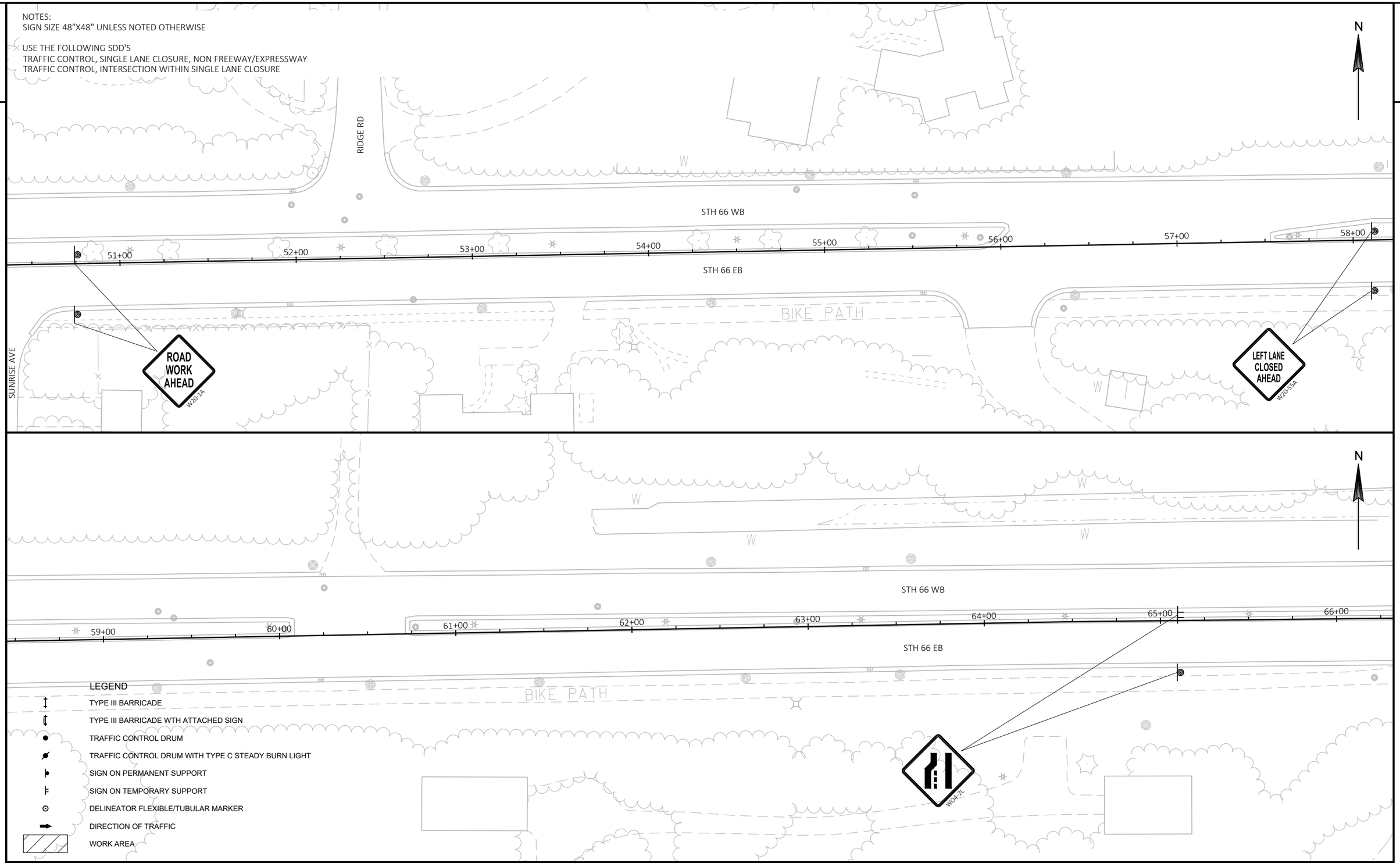
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025013-TCZ.DWG
LAYOUT NAME - 01

PLOT DATE : 6/15/2021 11:30 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE



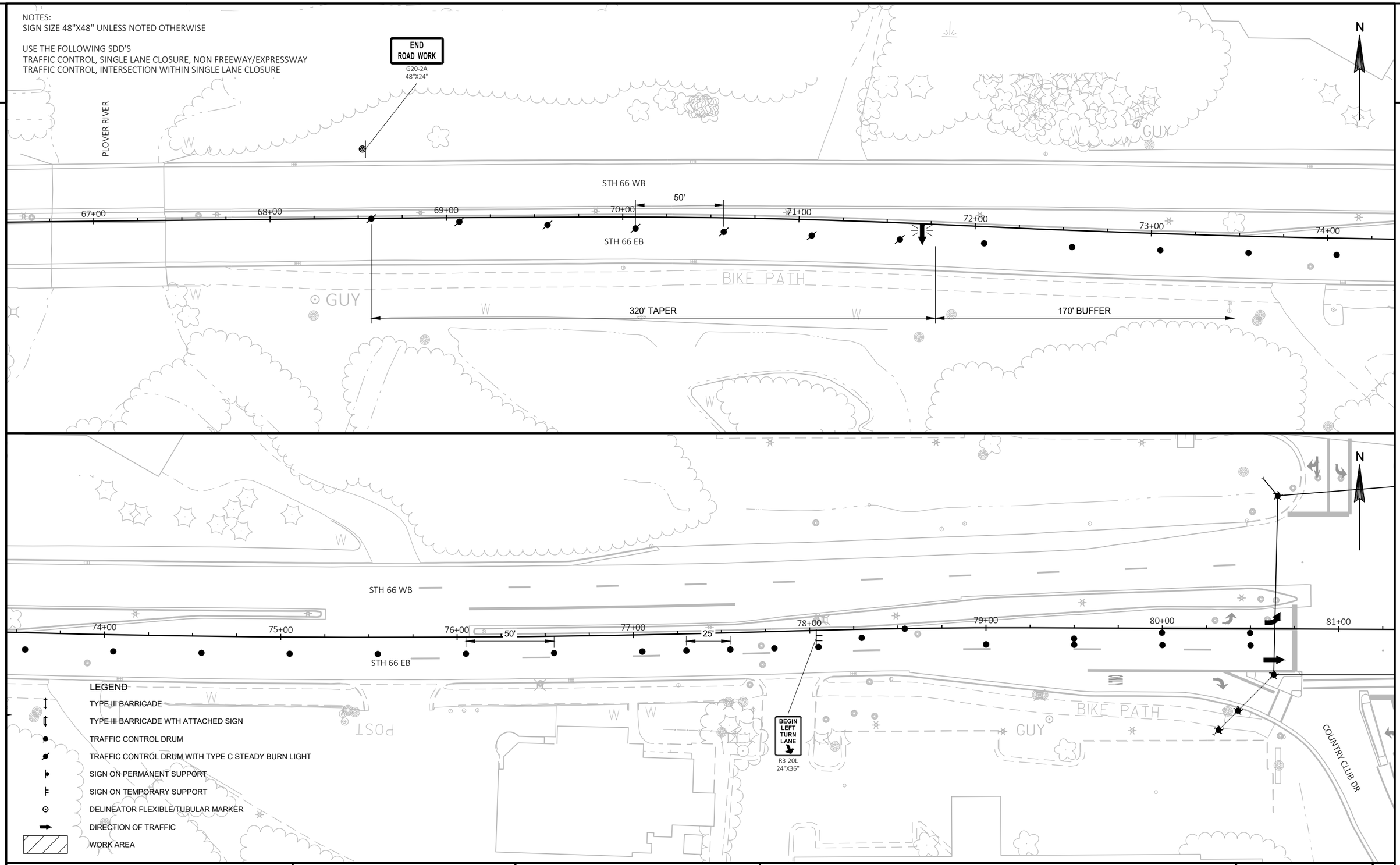
PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2: DAY	SHEET 186	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025021-TC.DWG
LAYOUT NAME - 01

PLOT DATE : 3/29/2021 2:01 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE



PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2: DAY	SHEET 187	E

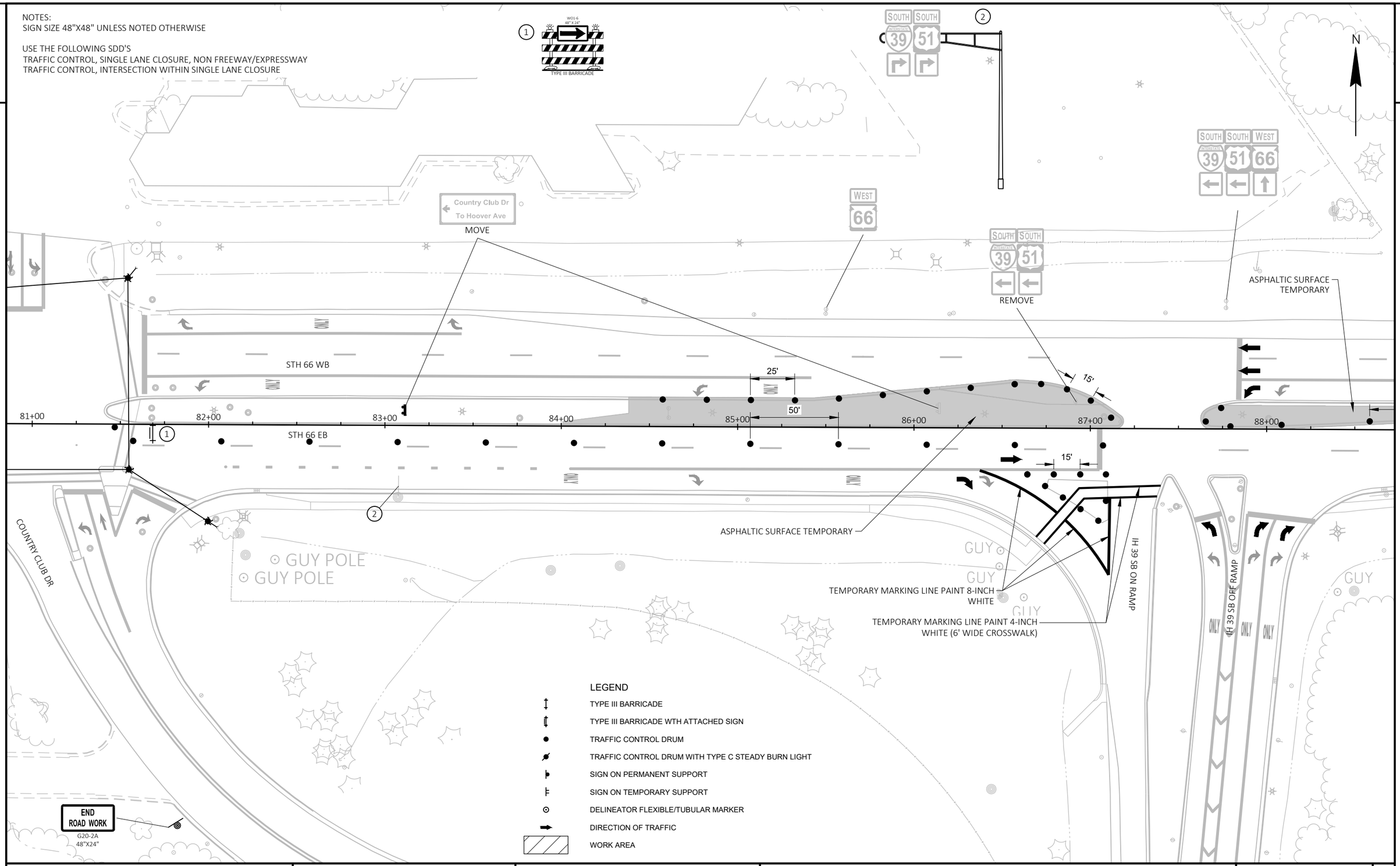
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025021-TC.DWG
LAYOUT NAME - 02

PLOT DATE : 3/29/2021 2:01 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE



LEGEND

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

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2: DAY	SHEET 188	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

2

2

N

STH 66 WB

USH 10 EB/STH 66 EB

IH 39 SB

IH 39 NB

IH 39 NB OFF RAMP

IH 39 NB ON RAMP

IH 39 NB OFF RAMP

ASPHALTIC SURFACE TEMPORARY

ASPHALTIC SURFACE TEMPORARY

ASPHALTIC SURFACE TEMPORARY

Wis Rapids
Portage
REMOVE

Marshfield
Wausau
REMOVE

REMOVE

R6-1R 36"X12"
R3-2 24"X24"
M3-4 24"X12"
M1-6 24"X24"
M6-1 21"X21"

R6-2R 24"X30"
M3-2 24"X12"
M1-4 24"X24"
M6-1 21"X21"

50'
25'
25'
15'

89+00
90+00
91+00
92+00
93+00
94+00
95+00
96+00
283+00
284+00
308+00
309+00
310+00

GUYS
GUY

LEGEND

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

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2: DAY	SHEET 189	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

WO12-1D
24"X24"

ASPHALTIC SURFACE TEMPORARY

TEMPORARY MARKING STOP LINE PAINT 18-INCH

REMOVE

MARKING REMOVAL LINE WIDE

MAPLE BLUFF RD

23+00

22+00

OLD HWY 18 RD

USH 10 WB

USH 10 EB

50'

25'

96+00 97+00 98+00 99+00 100+00 101+00 102+00 103+00

ASPHALTIC SURFACE TEMPORARY

ASPHALTIC SURFACE TEMPORARY

REMOVE

MARKING REMOVAL WIDE

TEMPORARY MARKING STOP LINE PAINT 18-INCH

RIPRAP

RIPRAP

104+00 105+00 106+00 107+00 108+00 109+00 110+00 111+00

LEGEND

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

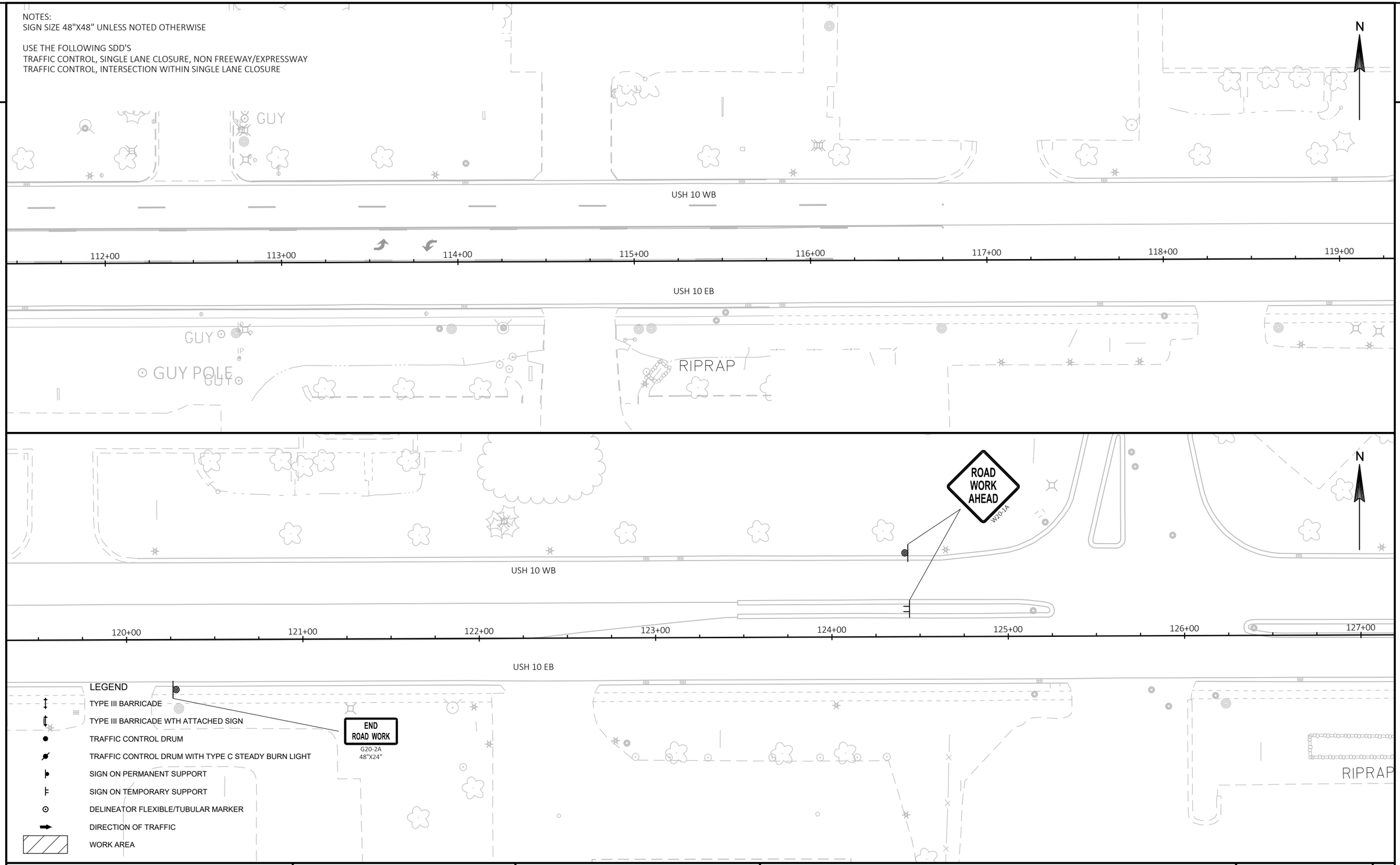
PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2: DAY	SHEET 190	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025021-TC.DWG
LAYOUT NAME - 05

PLOT DATE : 3/29/2021 2:02 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

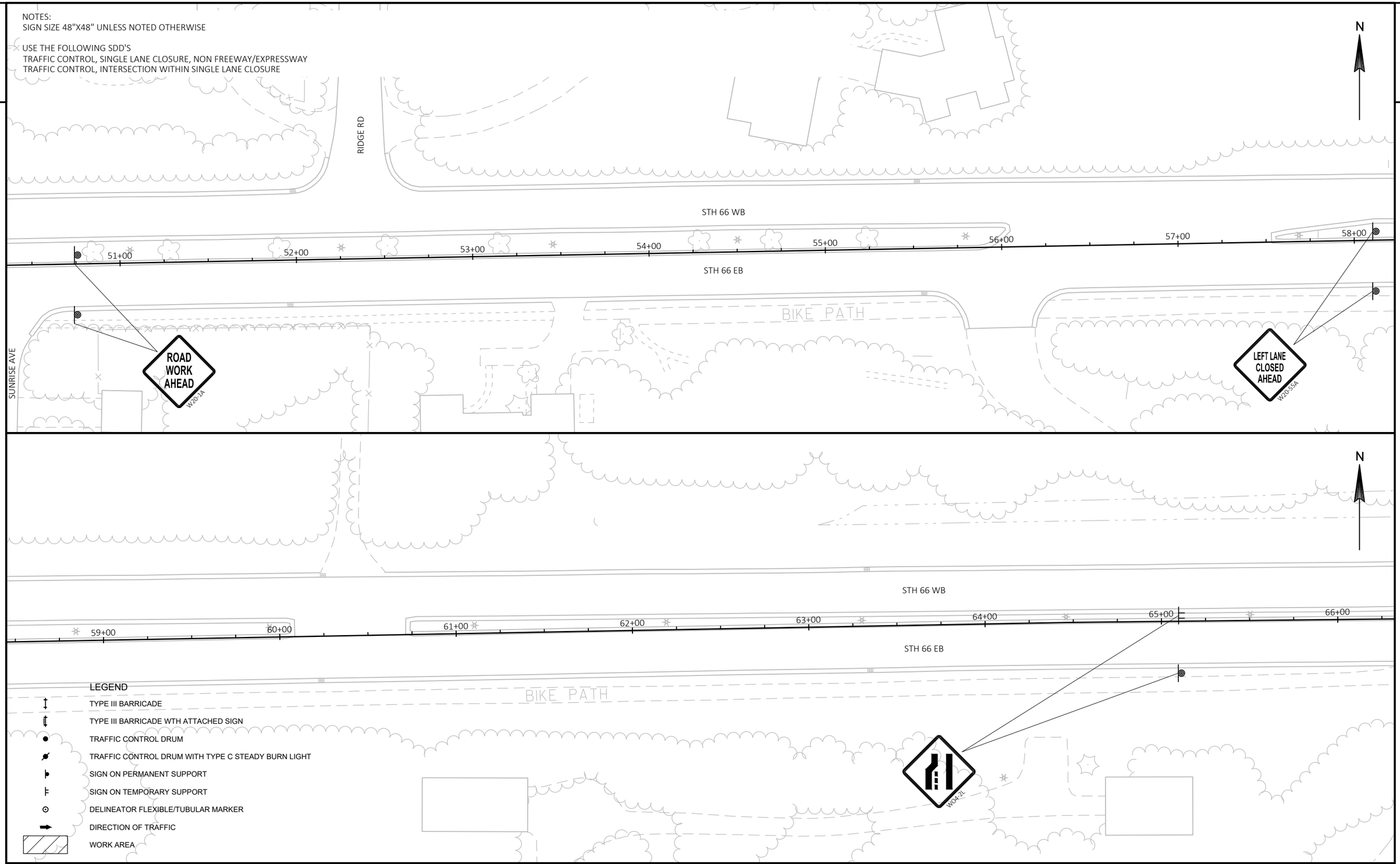


PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2: DAY	SHEET 191	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025021-TC.DWG
LAYOUT NAME - 06
PLOT DATE : 3/29/2021 2:02 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

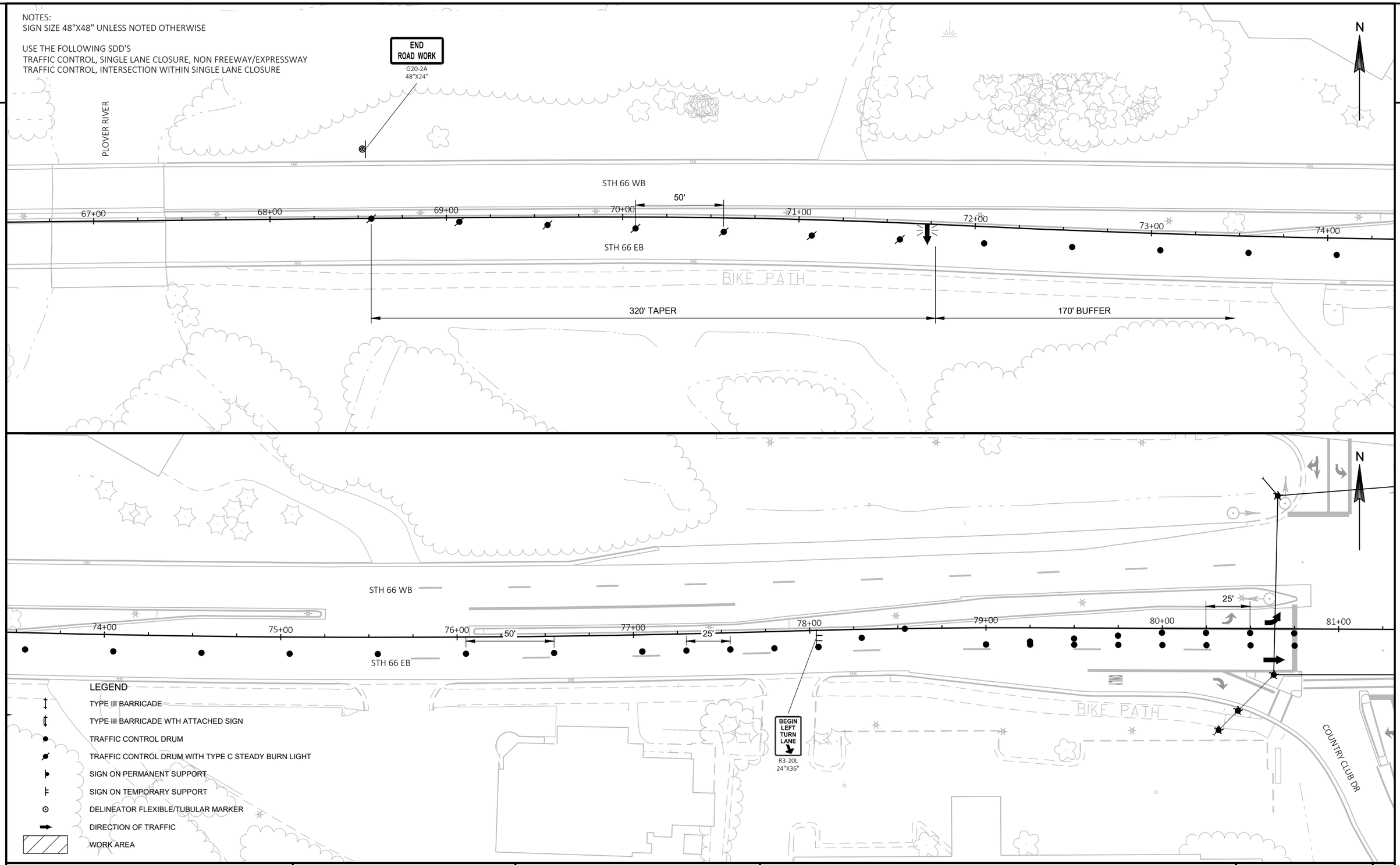
USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE



PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2: NIGHT	SHEET 192	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE



LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2: NIGHT	SHEET 193	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025020-TC NIGHT.DWG
LAYOUT NAME - 02

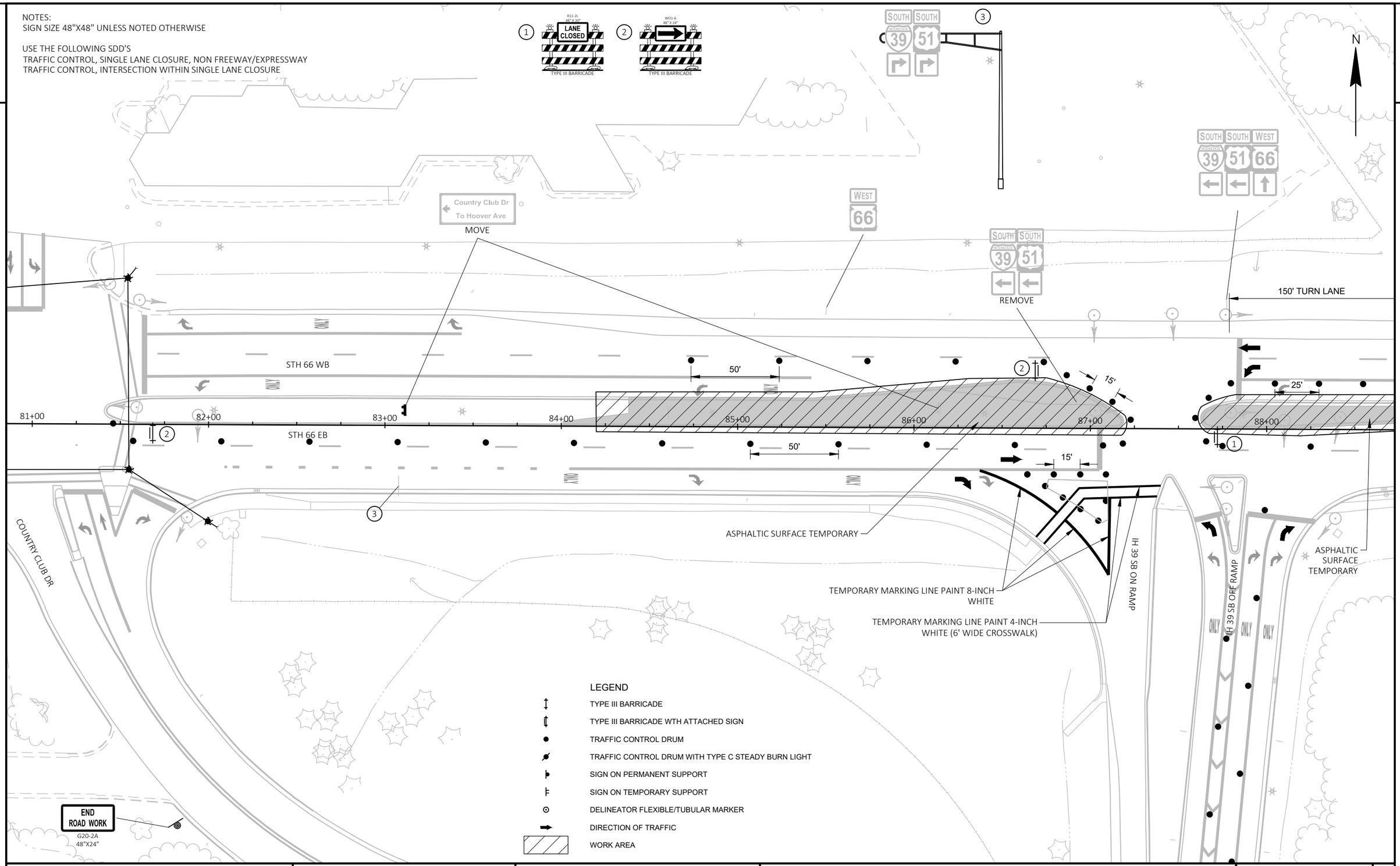
PLOT DATE : 3/29/2021 1:55 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE



LEGEND

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

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2: NIGHT	SHEET 194	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025020-TC NIGHT.DWG
LAYOUT NAME - 03
PLOT DATE : 3/29/2021 1:55 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

2

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

1 W01-6 48"X24" TYPE III BARRICADE

Wis Rapids
Portage
REMOVE

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

100' TAPER

25'

50'

89+00

90+00

91+00

92+00

93+00

94+00

95+00

96+00

ASPHALTIC SURFACE TEMPORARY

STH 66 WB

SOUTH 39 SOUTH 51 WEST 66

STOP

R6-1R 36"X12"
ONE WAY

R3-2 24"X24"

WEST 66

M3-4 24"X12"
M1-6 24"X24"
M6-1 21"X21"

ASPHALTIC SURFACE TEMPORARY

308+00

309+00

IH 39 NB OFF RAMP

310+00

25'

15'

IH 39 NB ON RAMP

284+00

283+00

ASPHALTIC SURFACE TEMPORARY

N

USH 10 EB/STH 66 EB

IH 39 SB

IH 39 NB

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

Marshfield
Wausau
REMOVE

100' TAPER

100' TURN LANE

NORTH 39 WEST 10 NORTH 51 EAST 66

NORTH 39 WEST 10 NORTH 51 EAST 66
REMOVE

IH 39 NB OFF RAMP

STOP

ONE WAY

EAST 10

R6-2R 24"X30"

M3-2 24"X12"
M1-4 24"X24"
M6-1 21"X21"

LEGEND

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

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2: NIGHT	SHEET 195	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025020-TC NIGHT.DWG
LAYOUT NAME - 04

PLOT DATE : 3/29/2021 1:55 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

W01-6 48" X 24"
1 TYPE III BARRICADE

NORTH WEST NORTH EAST
ALTERNATE 39 10 51 66

WEST 66 REMOVE

TEMPORARY MARKING STOP LINE PAINT 18-INCH

STOP REMOVE

MARKING REMOVAL LINE WIDE

ASPHALTIC SURFACE TEMPORARY

MAPLE BLUFF RD

TEMPORARY TRAFFIC SIGNAL FOR INTERSECTION

N

IP

175' TURN LANE

100' TAPER

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

USH 10 WB

50'

25'

75'

96+00 97+00 98+00 99+00 100+00 101+00 102+00 103+00

23+00

22+00

1 USH 10 EB

50'

25'

100' TAPER

170' TURN LANE

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

OLD HWY 18 RD

STOP REMOVE

ASPHALTIC SURFACE TEMPORARY

MARKING REMOVAL WIDE

TEMPORARY MARKING STOP LINE PAINT 18-INCH

NORTH NORTH EAST
ALTERNATE 39 51 66
SECOND RIGHT | SECOND RIGHT | SECOND RIGHT

RIPRAP

RIPRAP

N

USH 10 WB

50'

170' BUFFER

320' TAPER

50'

104+00 105+00 106+00 107+00 108+00 109+00 110+00 111+00

USH 10 EB

LEGEND

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

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2: NIGHT	SHEET 196 E

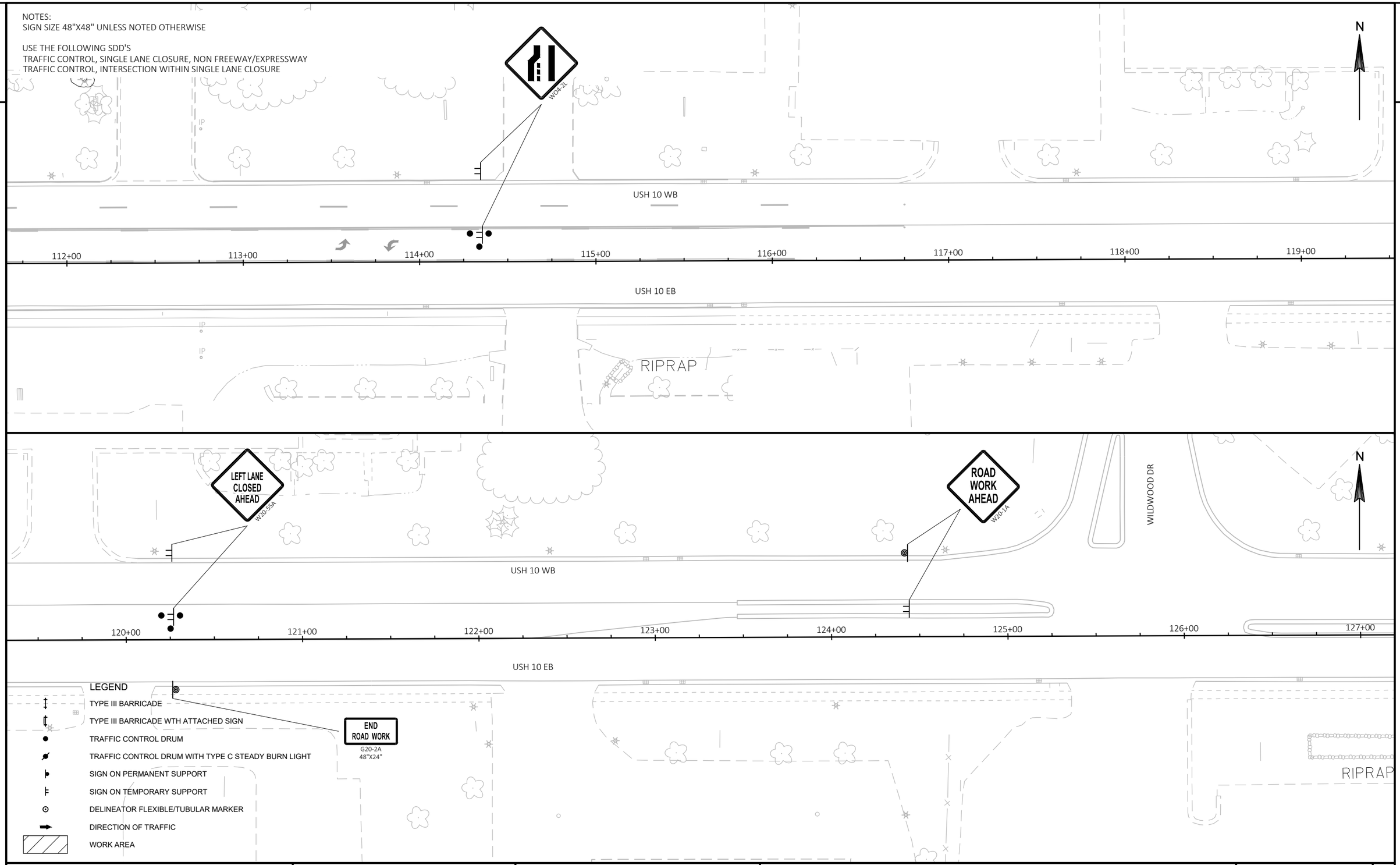
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025020-TC NIGHT.DWG
LAYOUT NAME - 05

PLOT DATE : 3/29/2021 1:55 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE



PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2: NIGHT	SHEET 197	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025020-TC NIGHT.DWG
LAYOUT NAME - 06

PLOT DATE : 3/29/2021 1:56 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTILANE DIVIDED ROAD

2

2

N

IH 39 SB ON RAMP

IH 39 SB OFF RAMP

25'

2

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

1

WEST EAST
66 10

Stevens Point
Appleton
Waupaca

ONLY ONLY ONLY

ONLY ONLY ONLY

GAS
ATTRACTION

WEST EAST
66 10

FOOD

FOOD

LODGING

LEGEND

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

85 SF HI

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2: NIGHT	SHEET 198	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025020-TC NIGHT.DWG
LAYOUT NAME - 07

PLOT DATE : 3/29/2021 1:56 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

RIDGE RD

STH 66 WB

STH 66 EB

51+00 52+00 53+00 54+00 55+00 56+00 57+00 58+00

EAST M3-2 36"X18"
10 M1-4 36"X36"
USE LEFT LANE MO4-20L 36"X36"

NORTH DETOUR M4-8 36"X18"
SOUTH WEST EAST M3-2 36"X18"
ALTERNATE 39 10 66 M1-6 36"X36"
RIGHT LANE 60"X12"

BIKE PATH

GUY

STH 66 WB

STH 66 EB

69+00 70+00 71+00 72+00 73+00 74+00 75+00 76+00

STH 66

STH 66

EAST M3-2 24"X12"
66 M1-6 24"X24"

DETOUR AHEAD W20-2A

ROAD WORK 500 FT W20-1D

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS,
TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC

ROAD WORK AHEAD W20-1A

LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2 SB RAMP SIGNAL DEACTIVATION	SHEET 199	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025022-TCZ.DWG
LAYOUT NAME - 01

PLOT DATE : 6/30/2021 8:54 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

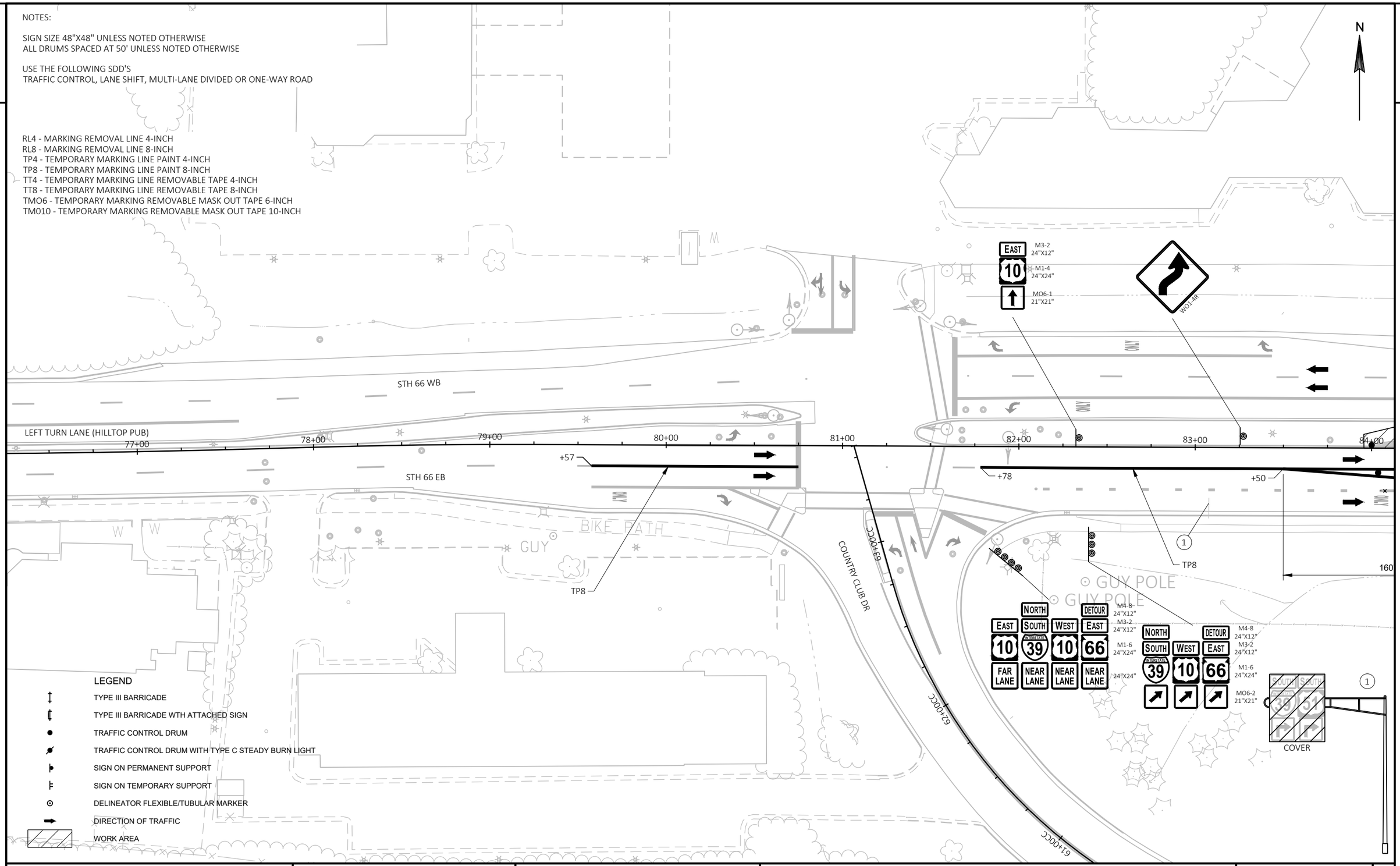
2

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
ALL DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TM010 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2 SB RAMP SIGNAL DEACTIVATION	SHEET 200	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025022-TCZ.DWG
LAYOUT NAME - 02

PLOT DATE : 6/30/2021 8:42 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
ALL DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

▲TEMPORARY DETECTABLE WARNING FIELD

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
RL8WB - MARKING REMOVAL LINE 8-INCH WATER BLASTING
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TM010 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

2 W01-6 48" X 24" TYPE III BARRICADE

N

SOUTH SOUTH WEST
39 51 66
REMOVE

MARKING REMOVAL LINE WIDE

ASPHALTIC SURFACE TEMPORARY

R3-2 24"X24"

ASPHALTIC SURFACE TEMPORARY

MARKING REMOVAL SPECIAL MARKING

STH 66 WB

TP8

84+00 85+00 86+00 87+00 88+00 89+00 90+00 91+00

25' 50' 25' 50'

12' 11' 11' 11'

+50 +54 +25

25'

STH 66 EB

RLWB8

100' SHIFTING TAPER

160' SHIFTING TAPER

TP4
RL4

TP8
TT4 CROSSWALK

TP4 (DOUBLE YELLOW)
TP8
RL4

GUY

MARKING REMOVAL LINE WIDE

SOUTH SOUTH
39 51
COVER

WO4-3R 48"X48"

COVER

TEMPORARY PEDESTRIAN BARRICADE

ASPHALTIC SURFACE TEMPORARY

IH 39 SB ON RAMP

271+00ZD

IH 39 SB OFF RAMP

ONLY ONLY ONLY

272+00ZD

WO11-2 48"X48"

WO16-7L 48"X24"

MARKING REMOVAL LINE WIDE

GUYS

GUY

NORTH NORTH WEST NORTH EAST
39 10 51 66
REMOVE

SEE OTHER STAGE 2 SB RAMP SIGNAL DEACTIVATION TRAFFIC CONTROL SHEETS

LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2 SB RAMP SIGNAL DEACTIVATION	SHEET 201	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025022-TCZ.DWG
LAYOUT NAME - 03

PLOT DATE : 6/30/2021 8:42 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

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

STOP R6-1R 36"X12" ONE WAY R3-2 24"X24" WEST 66 M3-4 24"X12" M1-6 24"X24" M6-1 21"X21"

SOUTH SOUTH WEST INTERSTATE 39 51 66 REMOVE

MARKING REMOVAL SPECIAL MARKING

IH 39 NB OFF RAMP 309+00ZB

308+00ZB

25'

285+00

284+00ZA

IH 39 NB ON RAMP

283+00ZA

NORTH WEST NORTH EAST INTERSTATE 39 10 51 66 REMOVE

NORTH SOUTH WEST EAST INTERSTATE 39 10 66 M3-2 24"X12" M1-6 24"X24" M06-2 21"X21"

Wis Rapids Wausau Marshfield

NORTH WEST NORTH EAST INTERSTATE 39 10 51 66

RL4

MARKING REMOVAL SPECIAL MARKING

RL8

1

50'

92+00 93+00 94+00 95+00 96+00 97+00 98+00 99+00

+43

25'

310+01ZB

11'

11'

75' SHIFTING TAPER

TL4

TL4 (DOUBLE YELLOW)

RL4

R3-2 24"X24"

GUY GUYS

IH 39 NB OFF RAMP (CLOSED)

USH 10 EB

10'

11'

13'

RL8

TP8

WEST 66 M3-4 24"X12" M1-6 24"X24" MO6-1 21"X21"

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

NORTH WEST NORTH EAST INTERSTATE 39 10 51 66 REMOVE

USH 10 WB

N

LEGEND

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

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TM010 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2 SB RAMP SIGNAL DEACTIVATION	SHEET 202	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TM010 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

N

MARKING REMOVAL
SPECIAL MARKING

MAPLE BLUFF RD

24+00MB

23+00MB

22+00MB

21+00MB

OLD HWY 18 RD

ONLY

USH 10 WB

USH 10 EB

99+00

100+00

101+00

102+00

103+00

104+00

105+00

106+00

25'

50'

75' SHIFTING TAPER

11' 11' 10'

11' 11'

12' 12'

TP4

TP4
YELLOW

RL4WB

NORTH NORTH EAST
INTERSTATE 39 51 66
SECOND RIGHT | SECOND RIGHT | SECOND RIGHT

GUY

GUYS

IP

LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2 SB RAMP SIGNAL DEACTIVATION	SHEET 203	E

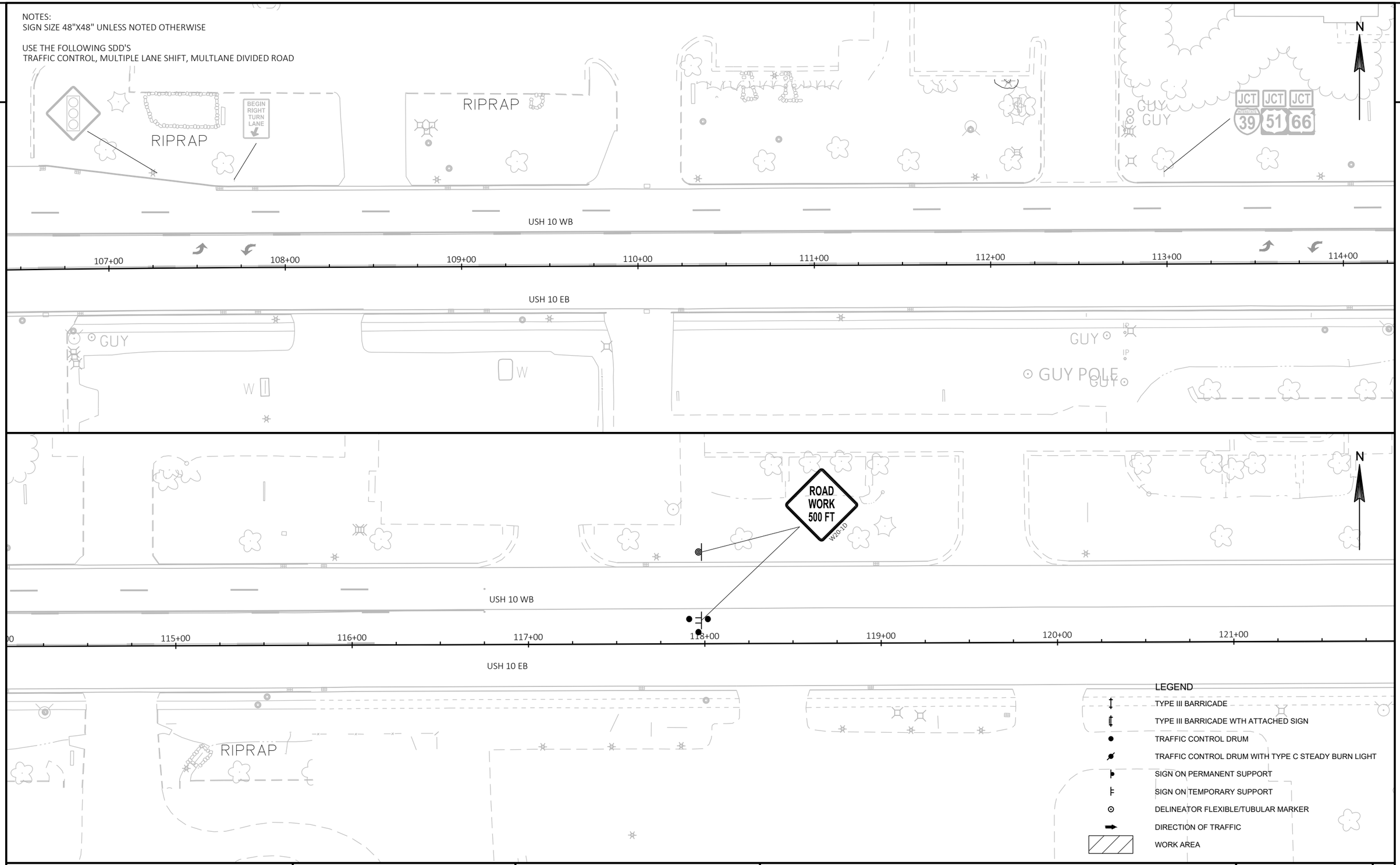
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025022-TCZ.DWG
LAYOUT NAME - 05

PLOT DATE : 6/30/2021 8:43 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD

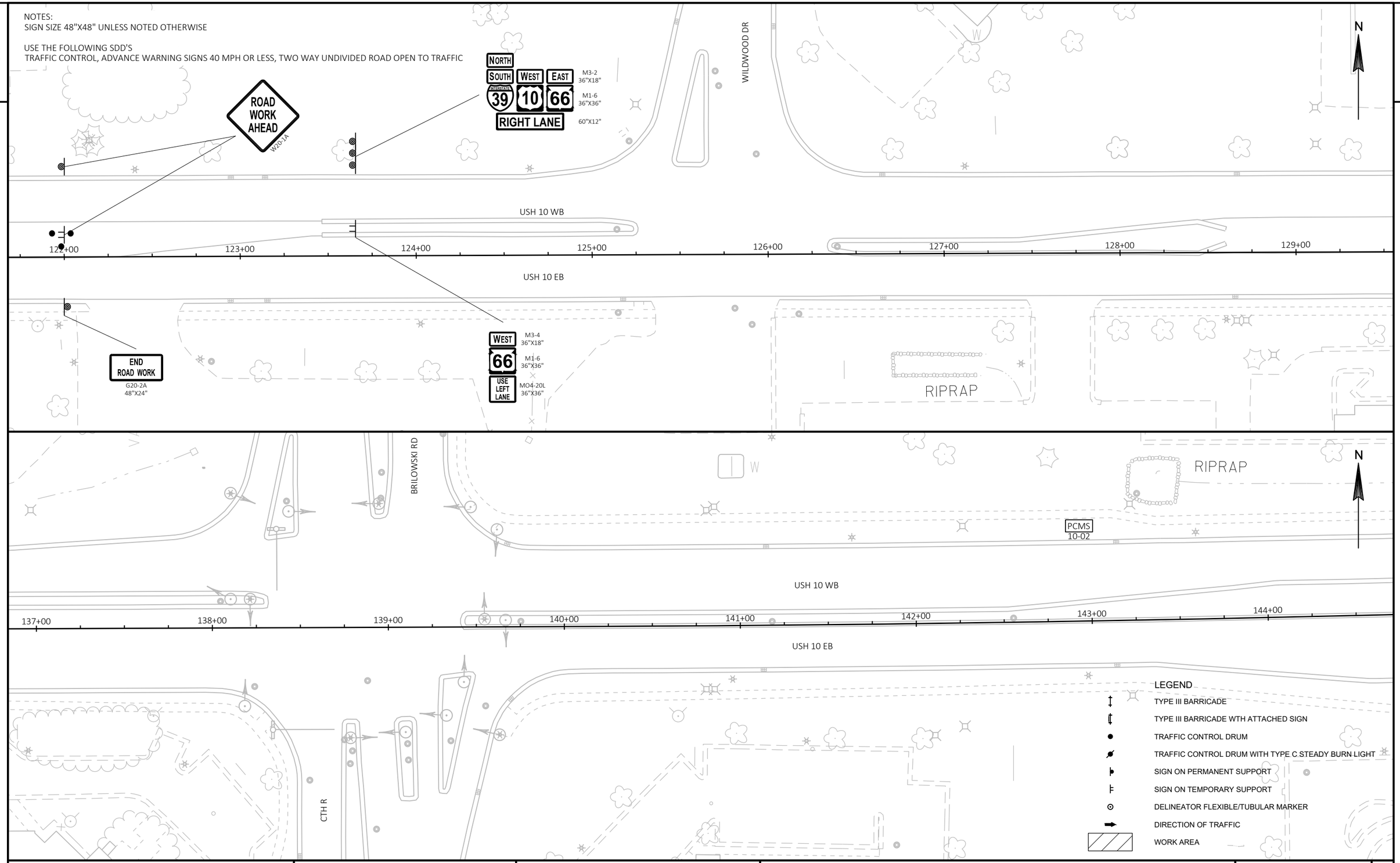


PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2 SB RAMP SIGNAL DEACTIVATION	SHEET 204	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025022-TCZ.DWG
LAYOUT NAME - 06
PLOT DATE : 6/30/2021 8:43 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2 SB RAMP SIGNAL DEACTIVATION	SHEET 205	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025022-TCZ.DWG
LAYOUT NAME - 07
PLOT DATE : 6/30/2021 8:43 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD

(1) SEE SPECIAL PROVISIONS FOR MORE INFORMATION

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

25'
25'
50'

COVER
WEST EAST 69 10
Seven Points Appleton Waupaca
COVER
COVER
WO4-6R 48"X48"
WEST EAST 69 10
COVER
WO1-1R
20 MPH
WO13-1 36"X36"
(1) GAS ATTRACTION
(1) FOOD
(1) FOOD
(1) LODGING
WO11-2 48"X48"
AHEAD
WO16-9P 48"X24"
COVER

GUY
GUYS
GUY

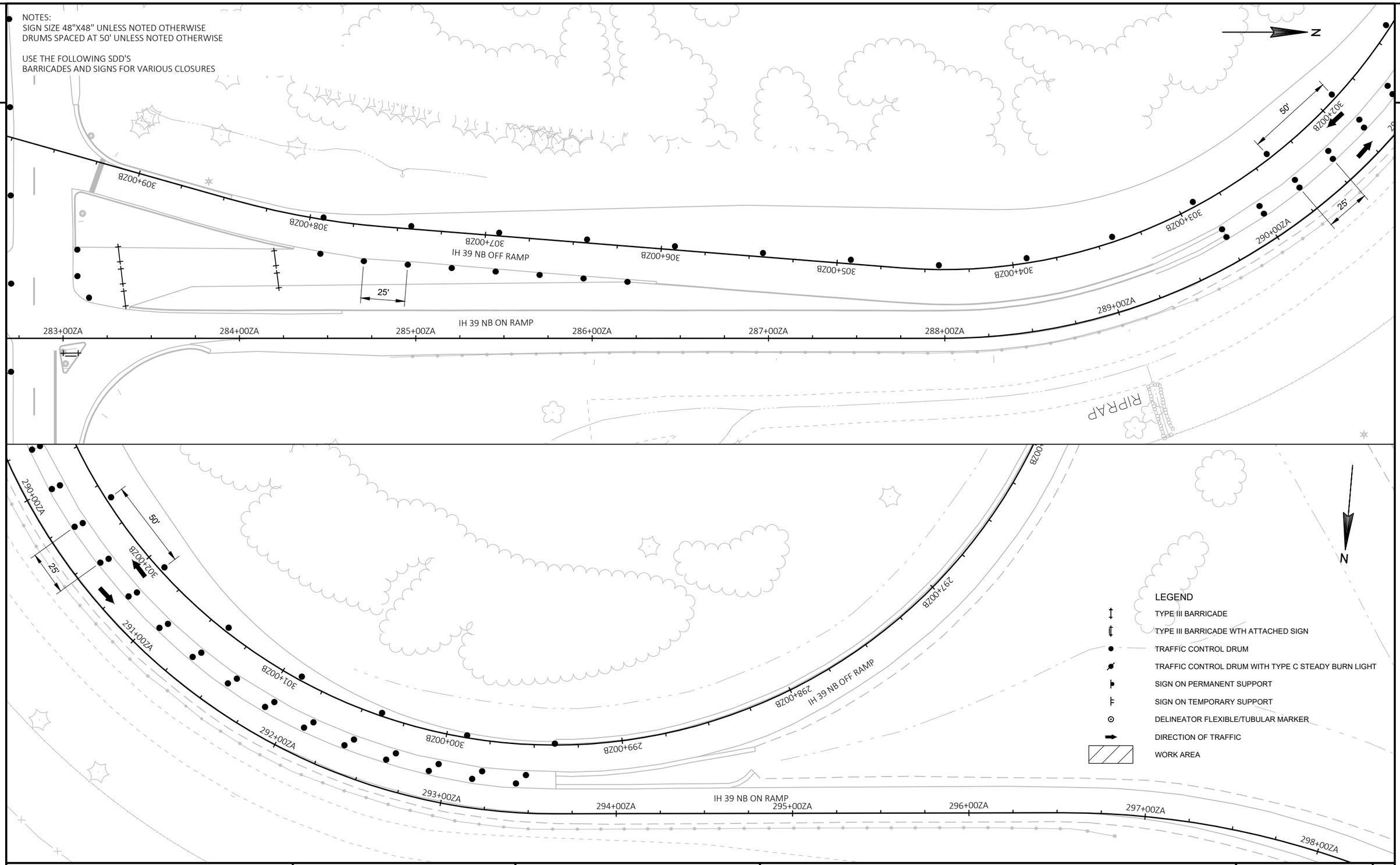
LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2 SB RAMP SIGNAL DEACTIVATION	SHEET 206	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025022-TCZ.DWG
LAYOUT NAME - 08
PLOT DATE : 6/30/2021 8:44 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
BARRICADES AND SIGNS FOR VARIOUS CLOSURES



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 2 SB RAMP SIGNAL DEACTIVATION	SHEET 207	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025022-TCZ.DWG
LAYOUT NAME - 09

PLOT DATE : 6/30/2021 8:44 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

GREEN AVE

RIDGE RD

STH 66 WB

47+00EX 48+00EX 49+00EX 50+00EX 51+00EX 52+00EX 53+00EX 54+00EX

STH 66 EB

SUNRISE AVE

EAST
10
USE LEFT LANE

M3-2 36"X18"
M1-4 36"X36"
MO4-20L 36"X36"

54+00EX 55+00EX 56+00EX 57+00EX 58+00EX 59+00EX 60+00EX 61+00EX

STH 66 WB

STH 66 EB

BIKE PATH

BIKE

NORTH DETOUR
SOUTH WEST EAST
INTERSTATE 39 10 66
RIGHT LANE

M4-8 36"X18"
M3-2 36"X18"
M1-6 36"X36"
60"X12"

LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3	SHEET 208	E

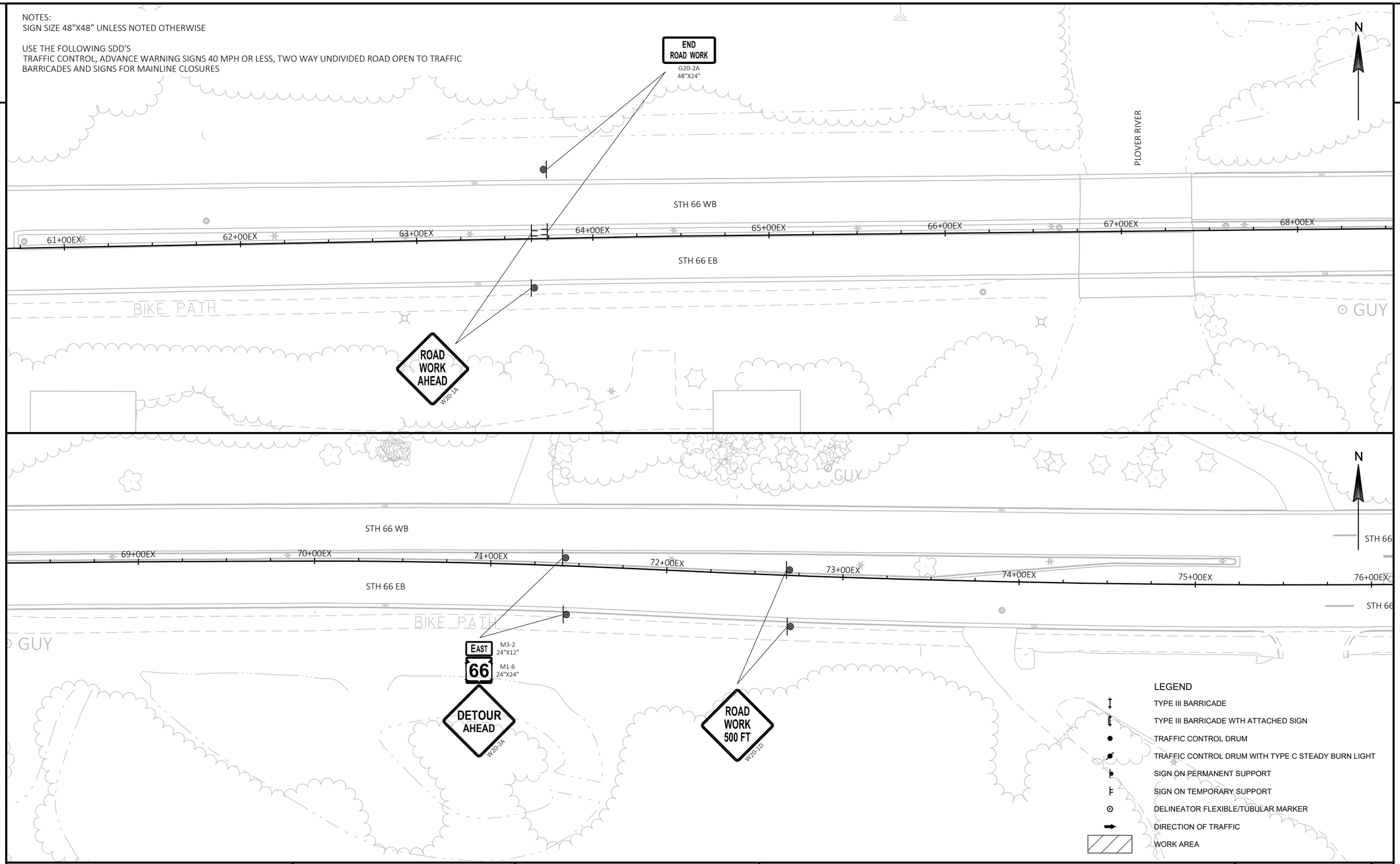
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025030-TCZ.DWG
LAYOUT NAME - 01

PLOT DATE : 3/30/2021 8:56 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC
BARRICADES AND SIGNS FOR MAINLINE CLOSURES



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3	SHEET 209	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025030-TCZ.DWG
LAYOUT NAME - 02

PLOT DATE : 3/30/2021 8:57 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

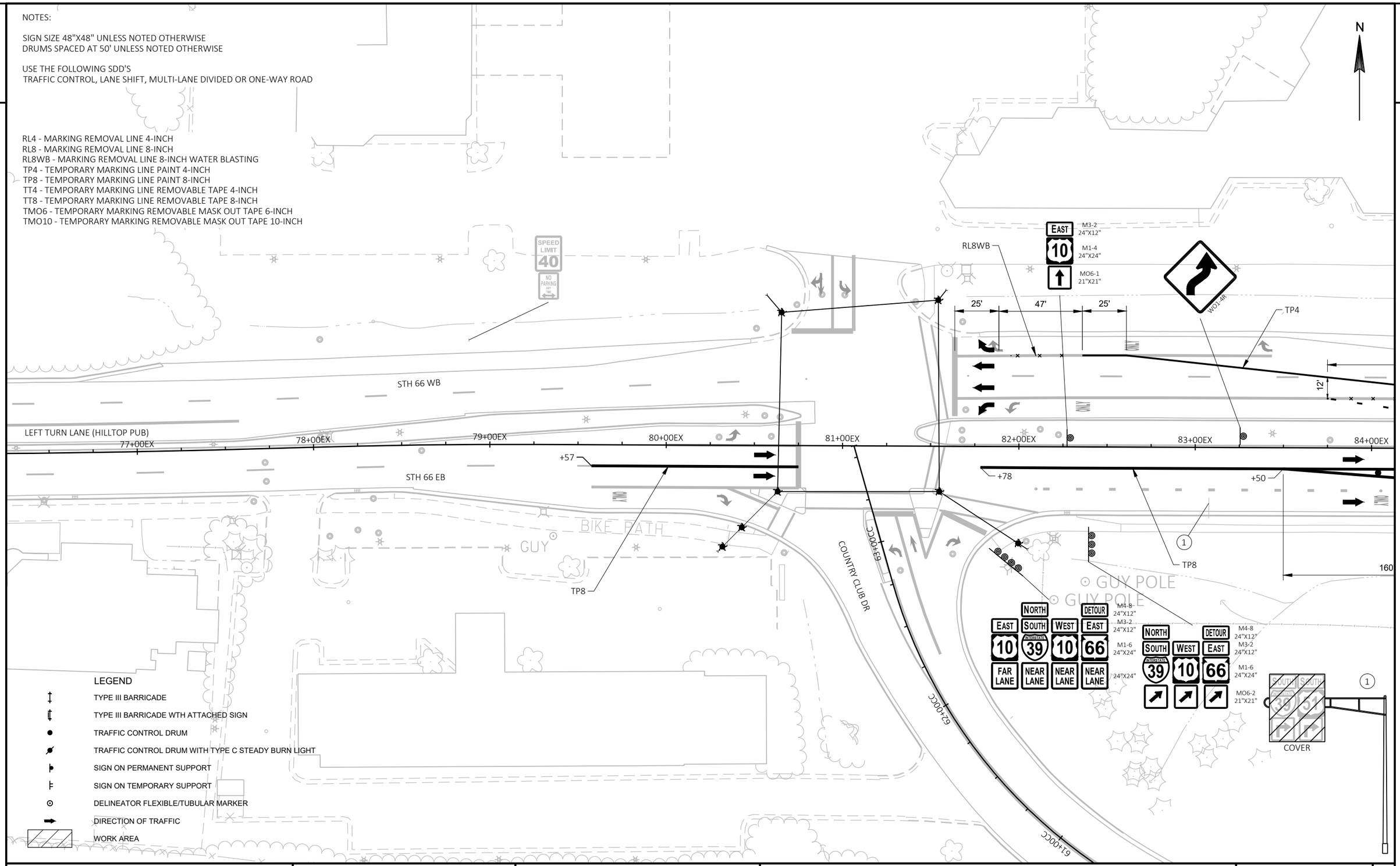
WISDOT/CADDS SHEET 44

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
RL8WB - MARKING REMOVAL LINE 8-INCH WATER BLASTING
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3	SHEET 210	E

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

▲TEMPORARY DETECTABLE WARNING FIELD

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
RL8WB - MARKING REMOVAL LINE 8-INCH WATER BLASTING
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

2 W01-6 48" X 24" TYPE III BARRICADE

N

WO1-4R

30 MPH WO13-1 36"X36"

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

R3-2 24"X24"

TP4
3' LINE 9' GAP

RL8

MARKING REMOVAL SPECIAL MARKING

300' SHIFTING TAPER

132' BARRIER TAPER

STH 66 WB

STH 66 EB

84+00EX 85+00EX 86+00EX 87+00EX 88+00EX 89+00EX 90+00EX 91+00E

+50 +75 +75 +54 +25

12' 11' 15' 25'

TP8

100' SHIFTING TAPER

160' SHIFTING TAPER

TP4

TP4 (DOUBLE YELLOW)

TP8

WO11-2 48"X48"

WO16-7L 48"X24"

SOUTH 39 51 COVER

WO4-3R 48"X48"

COVER

TEMPORARY PEDESTRIAN BARRIER

IH 39 SB ON RAMP

IH 39 SB OFF RAMP

ONLY

SEE OTHER STAGE 3 TRAFFIC CONTROL SHEETS FOR RAMP DETAILS

LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3	SHEET 211	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025030-TCZ.DWG
LAYOUT NAME - 04

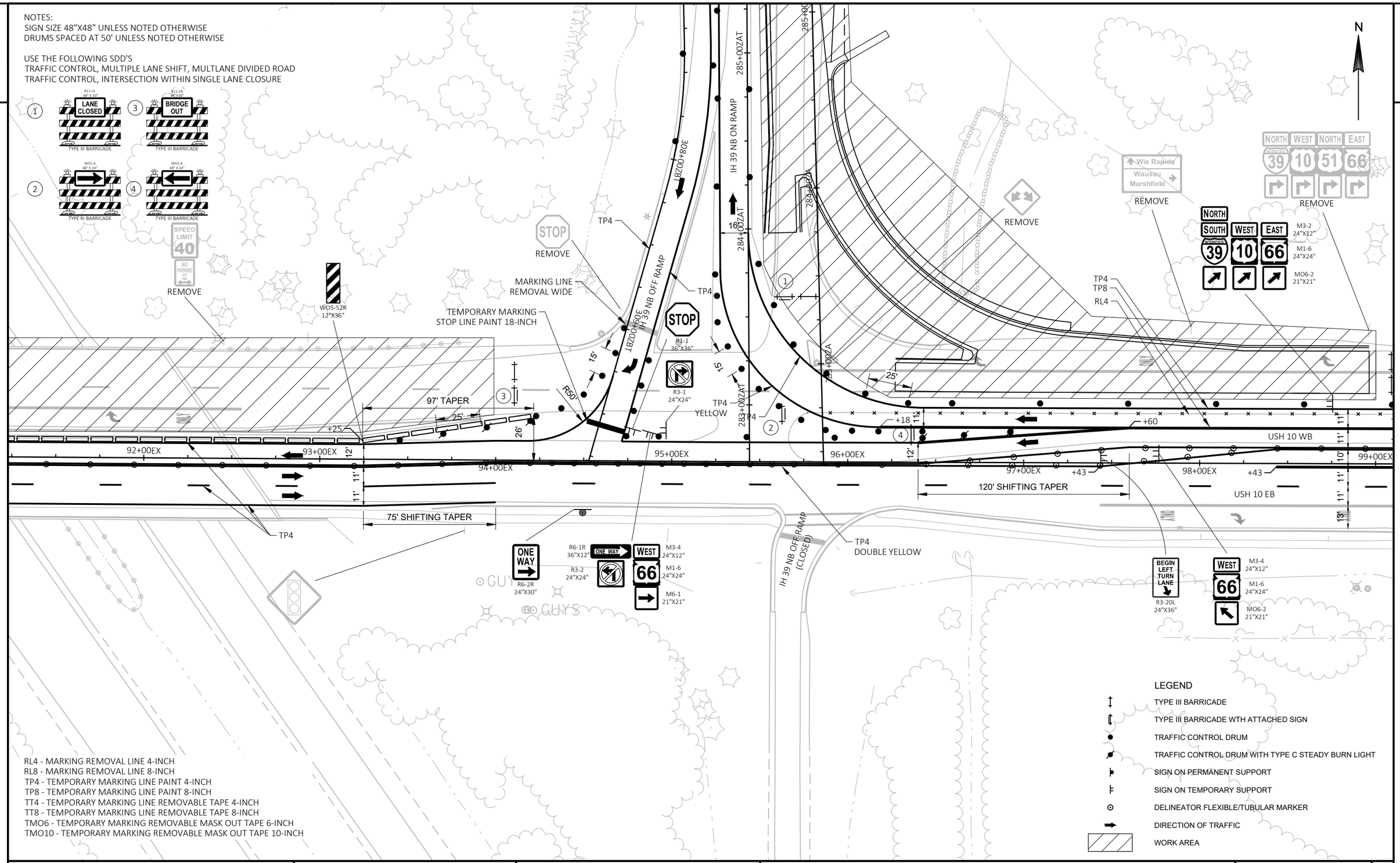
PLOT DATE : 3/30/2021 8:57 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE



RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3	SHEET 212	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

2 WO1-6 48"X 24" TYPE III BARRICADE

3 NORTH | WEST | SOUTH | WEST | EAST — 66 | 39 | 10 | 66 — FAR LANE | NEAR LANE | NEAR LANE | NEAR LANE — M3-2 24"X12", M1-6 24"X24", 24"X24"

4 WO12-1D 24"X24"

N

MARKING REMOVAL SPECIAL MARKING WATER BLASTING
MARKING REMOVAL SPECIAL MARKING
TEMPORARY MARKING ARROW PAINT (TYP)
MARKING REMOVAL LINE WIDE
RL4 (DOUBLE YELLOW)
COMPLETE WORK IN THIS AREA DURING MAX 1 WEEK TIMEFRAME
CONCRETE PAVEMENT HES 10-INCH
MAPLE BLUFF RD
24+00MB
23+00MB
22+00MB
21+00MB
OLD HWY 18 RD
+64
11' 16' 6'
25'
15'
R50'
Maple Bluff Rd D1-61 84"X15"
BEGIN RIGHT TURN LANE R3-2OR 24"X36"
DETOUR M4-9BR 30"X24"
NORTH | NORTH | EAST — 39 | 51 | 66 — SECOND RIGHT | SECOND RIGHT | SECOND RIGHT
REMOVE
TT4 (WHITE)
RL4WB
TEMPORARY PEDESTRIAN BARRICADE
TP4 (WHITE)
TP4 (YELLOW)
NORTH | SOUTH | WEST | EAST — 39 | 10 | 66 — RIGHT LANE — M3-2 36"X18", M1-6 36"X36", 60"X12"
+17
+92
+94
+88
+82
+38
USH 10 WB
USH 10 EB
99+00EX
100+00EX
101+00EX
102+00EX
103+00EX
104+00EX
105+00EX
106+00EX
10' 11' 11' 10'
11' 11'
12' 12'
50' TAPER
50' TURN LANE
75' SHIFTING TAPER
240' SHIFTING TAPER
RL4
RL8
TP8
RL4WB
TP4
TEMPORARY MARKING STOP LINE PAINT 18-INCH
TT4 3' LINE 9' GAP (WHITE)
MARKING REMOVAL SPECIAL MARKING
RL4 (YELLOW)
TP8 3' LINE 9' GAP
BEGIN LEFT TURN LANE R3-20L 24"X36"
ONLY R3-5OR 30"X36"
SPEED LIMIT 40
WEST 66 — M3-4 36"X18", M1-6 36"X36"
USE LEFT LANE MO4-20L 36"X36"
TSL PAINT 18-INCH
TT4 3' LINE 9' GAP (YELLOW)
TT4 3' LINE 9' GAP (WHITE)
MARKING REMOVAL LINE WIDE
TEMPORARY MARKING STOP LINE PAINT 18-INCH
MARKING REMOVAL SPECIAL MARKING
TEMPORARY MARKING ARROW PAINT
TEMPORARY MARKING ARROW REMOVABLE TAPE
NORTH | SOUTH | WEST | EAST | WEST — 39 | 10 | 66 | 66 — FAR LANE | FAR LANE | FAR LANE | NEAR LANE — M3-4 24"X12", M1-6 24"X24", 24"X24"
GUY
IP

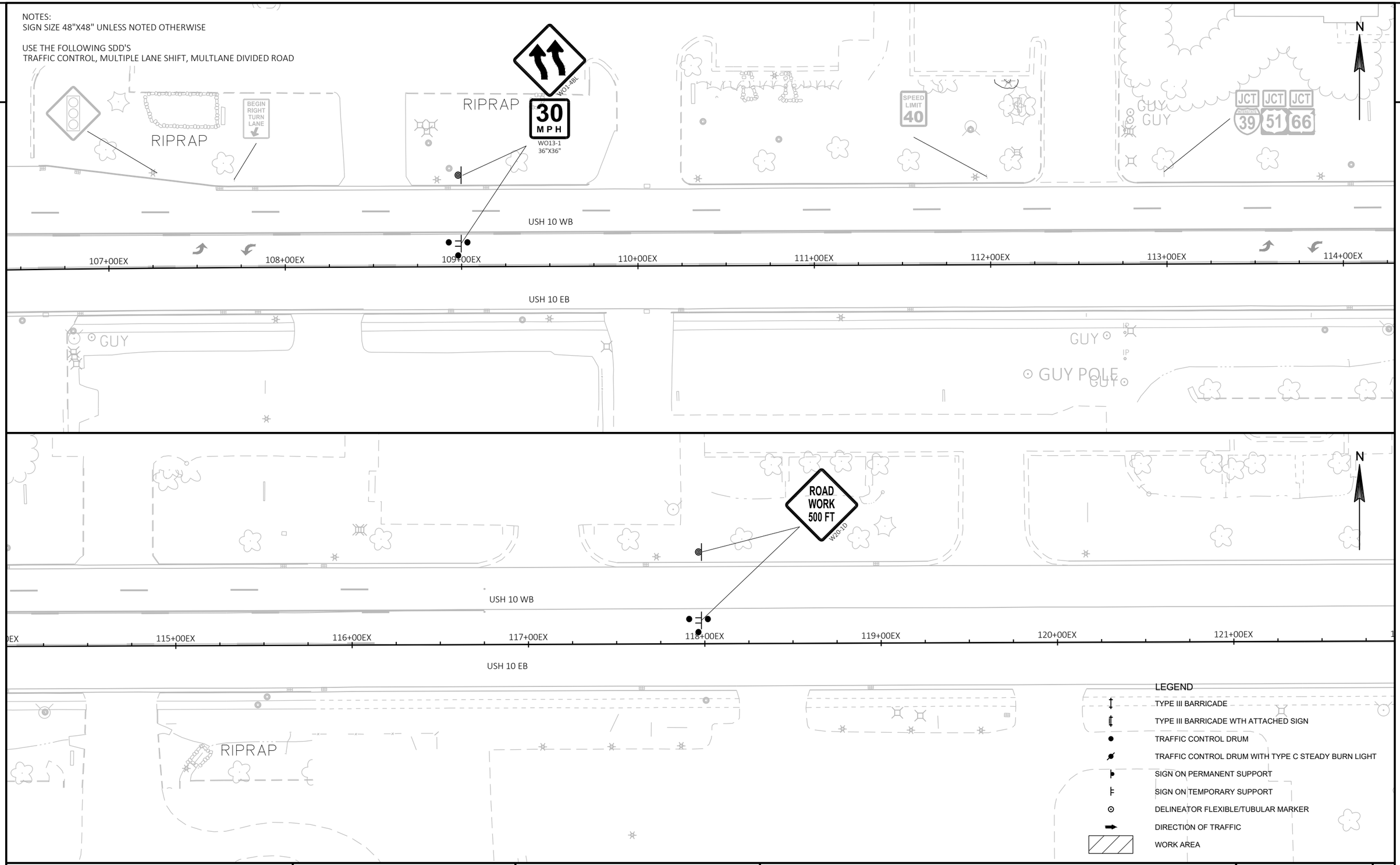
LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3	SHEET 213	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025030-TCZ.DWG
LAYOUT NAME - 06
PLOT DATE : 3/30/2021 8:58 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD



PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3	SHEET 214	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025030-TCZ.DWG
LAYOUT NAME - 07

PLOT DATE : 3/30/2021 8:58 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC

2

2

ROAD WORK AHEAD
W20-1A

NORTH
SOUTH WEST EAST
ALTERNATE 39 10 66
RIGHT LANE

M3-2 36"X18"
M1-6 36"X36"
60"X12"

WILDWOOD DR

N

USH 10 WB

122+00EX 123+00EX 124+00EX 125+00EX 126+00EX 127+00EX 128+00EX 129+00EX

USH 10 EB

END ROAD WORK
G20-2A
48"X24"

WEST
66
USE LEFT LANE

M3-4 36"X18"
M1-6 36"X36"
MO4-20L 36"X36"

RIPRAP

BRILOWSKI RD

RIPRAP

N

PCMS
10-02

USH 10 WB

137+00EX 138+00EX 139+00EX 140+00EX 141+00EX 142+00EX 143+00EX 144+00EX

USH 10 EB

CTH R

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3	SHEET 215	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025030-TCZ.DWG
LAYOUT NAME - 08

PLOT DATE : 3/30/2021 8:59 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD

(1) SEE SPECIAL PROVISIONS FOR MORE INFORMATION

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

IH 39 SB ON RAMP

IH 39 SB OFF RAMP

25'

N

GUY

GUYS

COVER

WEST EAST 66 10

Seven Point
Appleton
Waupaca

ONLY ONLY ONLY

WO1-1R
20 MPH
WO13-1
36"X36"

WO4-6R
48"X48"

(1) FOOD

(1) FOOD

(1) LODGING

(1) GAS
ATTRACTION

COVER

WO11-2
48"X48"

WO16-9P
48"X24"
AHEAD

LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3	SHEET 216 E

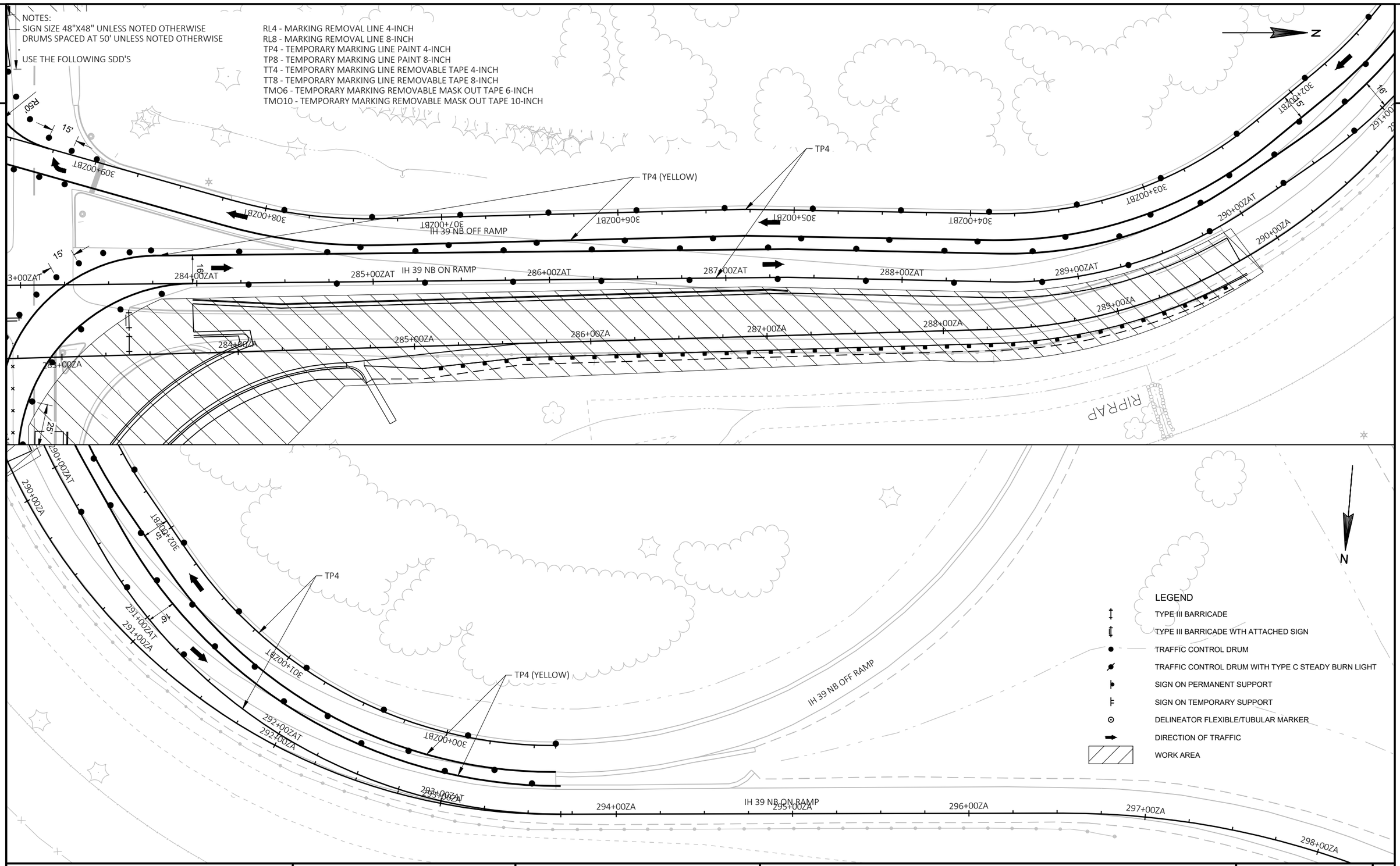
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025030-TCZ.DWG
LAYOUT NAME - 09

PLOT DATE : 3/30/2021 8:59 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

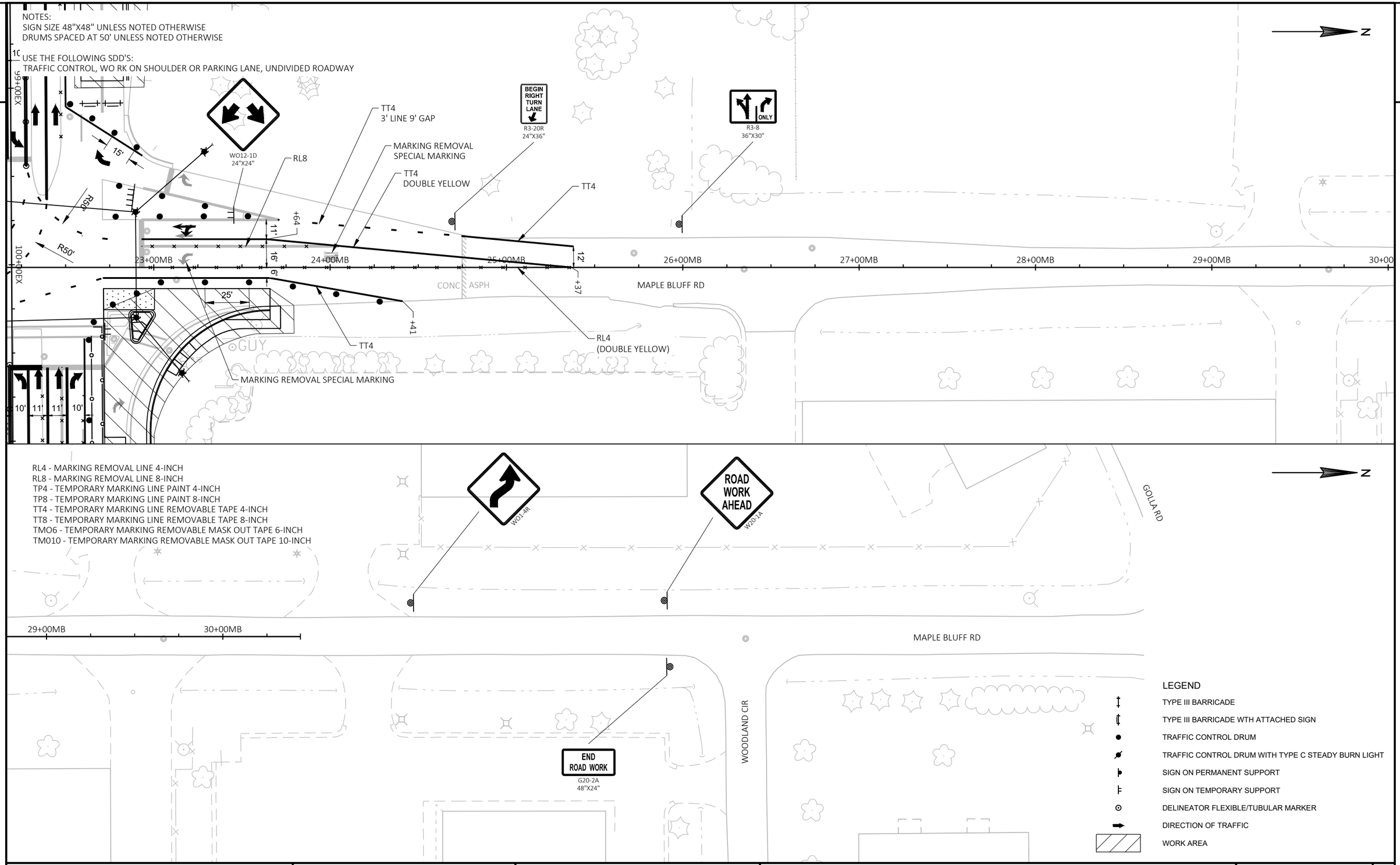


PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3	SHEET 217	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, WO RK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TM010 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH



LEGEND

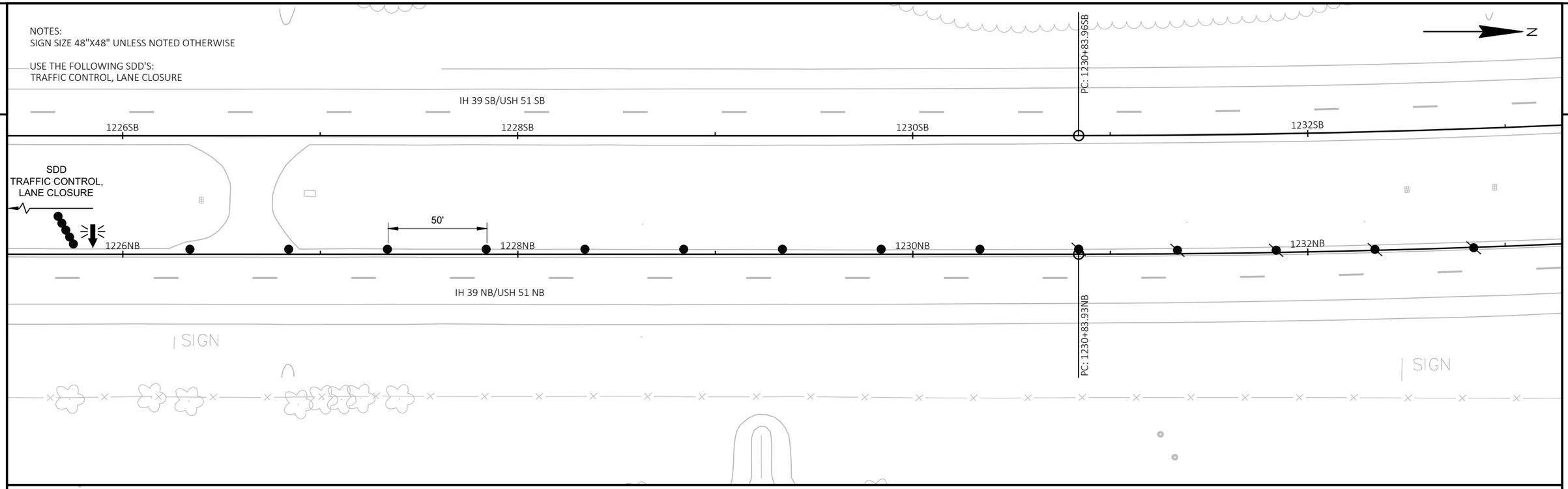
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3	SHEET 218	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025030-TCZ.DWG
LAYOUT NAME - 11
PLOT DATE : 3/30/2021 9:00 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE CLOSURE



PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3 & 4 PASSING LANE CLOSURE	SHEET 219	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
SEE DETOUR PLAN - STAGE 3 & STAGE 4 FOR RAMP CLOSURE DETIALS

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE CLOSURE
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE WAY ROAD

2

2

IH 39 SB/USH 51 SB

1258SB 1260SB 1262SB 1264SB

1258NB 1260NB 1262NB 1264NB

IH 39 NB/USH 51 NB

STA BACK = 1265+53.46SB
STA AHEAD = 1265+90.14SB

PT: 1265+90.14SB

IH 39 SB/USH 51 SB

1264SB 1266SB 1268SB 1270SB 1272SB

END
ROAD WORK
G20-2A
48"X24"

1266NB 1268NB 1270NB 1272NB

IH 39 NB/USH 51 NB

PT: 1265+90.14NB

W24-1R

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3 & 4 PASSING LANE CLOSURE	SHEET 220	E

2

IH 39 SB/USH 51 SB

1272SB 1274SB 1276SB 1278SB

1272NB 1274NB 1276NB 1278NB

100'

2

S-49-01

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
SEE DETOUR PLAN - STAGE 3 & STAGE 4 FOR ADDITIONAL RAMP CLOSURE DETAILS

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE CLOSURE
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE WAY ROAD
TRAFFIC CONTROL, EXIT RAMP CLOSURE

STA 1281+29SB TO STA 1284+96SB
REMOVE EXISTING ASPHALTIC SHOULDER RUMBLE STRIPS
SEE TYPICAL SECTIONS FOR DETAILS

IH 39 SB/USH 51 SB

1280SB 1282SB 1284SB 1286SB

12'

200'

280' SHIFTING TAPER

50'

500' BUFFER SPACE

1280NB 1282NB 1284NB 1286NB

100'

1

12'

15'

25'

2

STA 1282+00NB
BEGIN REMOVING EXISTING ASPHALTIC SHOULDER RUMBLE STRIPS
SEE TYPICAL SECTIONS FOR DETAILS

RAMP TO USH 10 EB
(CLOSED)

EXIT
158A

COVER

1 WO1-6
48" X 24"

TYPE III BARRICADE

2 R11-2R
48" X 30"
RAMP
CLOSED

TYPE III BARRICADE

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3 & 4 PASSING LANE CLOSURE	SHEET 221	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025030X-TCZ.DWG
LAYOUT NAME - 03
PLOT DATE : 3/29/2021 9:53 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

POST

POST

15'

8'

IH 39 SB/USH 51 SB

18'

100'

1288SB

1290SB

1292SB

1294SB

200'

536' BUFFER SPACE

B-49-24

USH 10/STH 66

200'

200'

1288NB

1290NB

1292NB

1294NB

12'

IH 39 NB/USH 51 NB

STA 1286+90
END REMOVING EXISTING ASPHALTIC
SHOULDER RUMBLE STRIPS
SEE TYPICAL SECTIONS FOR DETAILS

POST

SIGN

RAMP TO STH 66 WB

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE WAY ROAD

SIGN

N

STA 1297+22SB TO STA 1300+21SB
REMOVE EXISTING ASPHALTIC SHOULDER RUMBLE STRIPS
SEE TYPICAL SECTIONS FOR DETAILS

18'

50'

1

100'

1294SB

1296SB

1298SB

1300SB

280' SHIFTING TAPER

1294NB

1296NB

1298NB

1300NB

NB/USH 51 NB

IH 39 NB/USH 51 NB

WO1-6
48" X 24"

1

TYPE III BARRICADE

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3 & 4 PASSING LANE CLOSURE	SHEET 222	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025030X-TCZ.DWG
LAYOUT NAME - 04

PLOT DATE : 3/29/2021 9:54 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

2

IH 39 SB/USH 10 EB/USH 51 SB/STH 66 WB

100'

1302SB

1304SB

50'

1306SB

1308SB

1302NB

1304NB

1306NB

1308NB

IH 39 NB/USH 10 WB/USH 51 NB/STH 66 EB

W024-1R

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE CLOSURE
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE WAY ROAD

IH 39 SB/USH 10 EB/USH 51 SB/STH 66 WB

1310SB

1312SB

1314SB

1316SB

SDD TRAFFIC CONTROL
LANE CLOSURE

1310NB

1312NB

1314NB

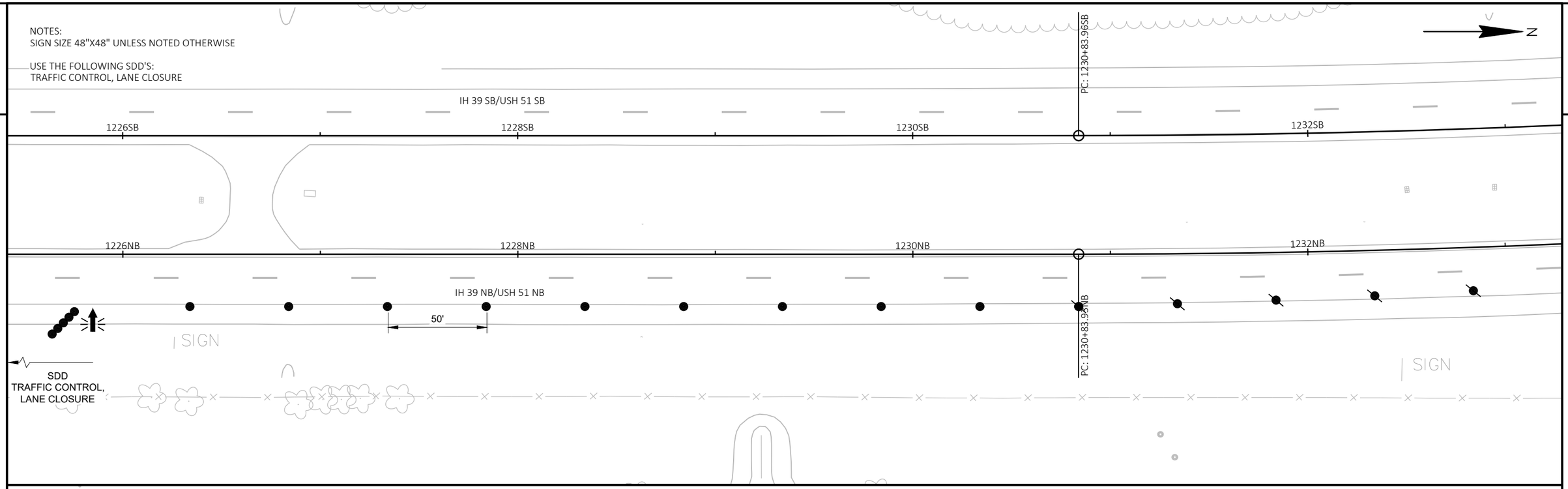
1316NB

IH 39 NB/USH 10 WB/USH 51 NB/STH 66 EB

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3 & 4 PASSING LANE CLOSURE	SHEET 223	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE CLOSURE



PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3 & 4 DRIVING LANE CLOSURE	SHEET 224	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025030Z-TCZ.DWG
LAYOUT NAME - 01

PLOT DATE : 2/11/2021 3:24 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE CLOSURE
TRAFFIC CONTROL, RAMP WITHIN LANE CLOSURE

IH 39 SB/USH 51 SB

1258SB 1260SB 1262SB 1264SB

1258NB 1260NB 1262NB 1264NB

IH 39 NB/USH 51 NB

STA BACK = 1265+53.46SB
STA AHEAD = 1265+90.14SB

PT : 1265+90.14SB

IH 39 SB/USH 51 SB

1264SB 1266SB 1268SB 1270SB 1272SB

END
ROAD WORK
G20-2A
48"X24"

1266NB 1268NB 1270NB 1272NB

IH 39 NB/USH 51 NB

PT : 1265+90.14NB

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3 & 4 DRIVING LANE CLOSURE	SHEET 225	E

2

IH 39 SB/USH 51 SB

1272SB 1274SB 1276SB 1278SB

1272NB 1274NB 1276NB 1278NB

IH 39 NB/USH 51 NB

350'

100'

1

S-49-01

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
SEE DETOUR PLAN - STAGE 3 & STAGE 4 FOR ADDITIONAL RAMP CLOSURE DETAILS

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE CLOSURE
TRAFFIC CONTROL, RAMP WITHIN LANE CLOSURE

E5-1
48"X48"

50'

IH 39 SB/USH 51 SB

1280SB 1282SB 1284SB 1286SB

STA 1284+18SB
BEGIN REMOVING EXISTING ASPHALTIC SHOULDER RUMBLE STRIPS
SEE TYPICAL SECTIONS FOR DETAILS

STA 1281+21NB
BEGIN REMOVING EXISTING ASPHALTIC SHOULDER RUMBLE STRIPS
SEE TYPICAL SECTIONS FOR DETAILS

1280NB 1282NB 1284NB 1286NB

IH 39 NB/USH 51 NB

100'

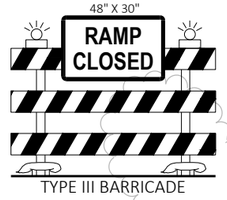
25'

1

RAMP TO USH 10 EB
(CLOSED)

COVER

R11-2R
48" X 30"



TYPE III BARRICADE

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3 & 4 DRIVING LANE CLOSURE	SHEET 226	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025030Z-TCZ.DWG
LAYOUT NAME - 03
PLOT DATE : 2/11/2021 3:27 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

2

POST

POST

25'

100'

1288SB

1290SB

1292SB

IH 39 SB/USH 51 SB

1294SB

160'

B-49-24

USH 10/STH 66

STA 1292+02NB
END REMOVING EXISTING ASPHALTIC SHOULDER RUMBLE STRIPS
SEE TYPICAL SECTIONS FOR DETAILS

1288NB

1290NB

1292NB

1294NB

IH 39 NB/USH 51 NB

25'

50'

POST

SIGN

RAMP TO STH 66 WB

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE CLOSURE
TRAFFIC CONTROL, RAMP WITHIN LANE CLOSURE

EXIT

E5-1
48"X48"

SIGN

SIGN

100'

1294SB

1296SB

1298SB

1300SB

STA 1289+64SB
END REMOVING EXISTING ASPHALTIC SHOULDER RUMBLE STRIPS
SEE TYPICAL SECTIONS FOR DETAILS

1294NB

1296NB

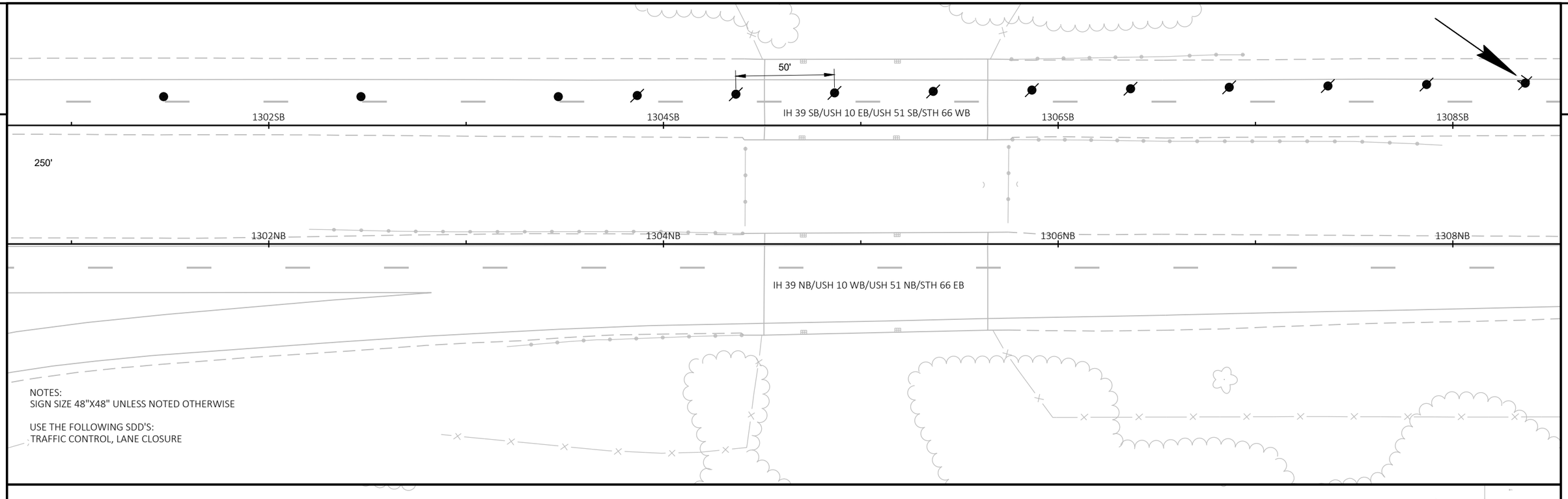
1298NB

1300NB

IH 39 NB/USH 51 NB

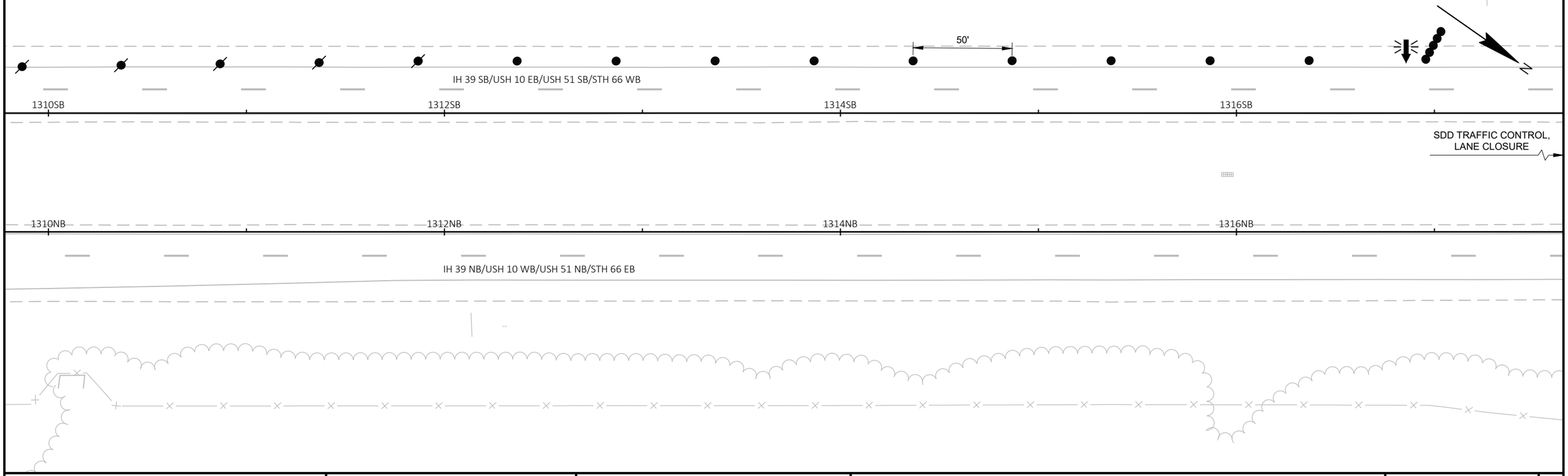
PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3 & 4 DRIVING LANE CLOSURE	SHEET 227	E

2



NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE CLOSURE



2

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3 & 4 DRIVING LANE CLOSURE	SHEET 228	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025030Z-TCZ.DWG
LAYOUT NAME - 05
PLOT DATE : 2/11/2021 3:29 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

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

2 W01-6 48"X 24" TYPE III BARRICADE

5 W01-6 48"X 24" TYPE III BARRICADE

3 NORTH / WEST SOUTH (INTERSTATE 39) / WEST 10 / EAST 66 — FAR LANE / NEAR LANE / NEAR LANE / NEAR LANE — M3-2 24"X12", M1-6 24"X24", 24"X24"

4 WO12-1D 24"X24"

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

N

NORTH / SOUTH (INTERSTATE 39) / WEST 10 / EAST 66 — RIGHT LANE — M3-2 36"X18", M1-6 36"X36", 60"X12"

Maple Bluff Rd D1-61 84"X15"
BEGIN RIGHT TURN LANE R3-20R 24"X36"

MAPLE BLUFF RD
24+00MB
+64
11' 16' 6'
25'
TEMPORARY MARKING ARROW PAINT EXISTING
23+00MB
15'
TP8
R50'
TP4 CROSSWALK
TT4 CROSSWALK
231'
TT4
50'
TT8
18'
USH 10 WB
+24
+88
+82
+94
102+00EX
101+00EX
99+00EX
100+00EX
11' 11' 10'
11' 11' 11'
12' 12'
103+00EX
104+00EX
105+00EX
106+00EX
25'
50' TAPER
50' TURN LANE
TP4 (WHITE) EXISTING
TP4 (YELLOW) EXISTING
USH 10 EB
240' SHIFTING TAPER
75' SHIFTING TAPER
TP8 EXISTING
TP4 EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TP8 3' LINE 9' GAP EXISTING
BEGIN LEFT TURN LANE R3-20L 24"X36"
ONLY R3-50R 30"X36"
ONLY R3-50R 30"X36"
SPEED LIMIT 40
WEST 66 — USE LEFT LANE — M3-4 36"X18", M1-6 36"X36", MO4-20L 36"X36"
TSL PAINT 18-INCH
TT4 3' LINE 9' GAP (YELLOW)
TT4 3' LINE 9' GAP EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TEMPORARY MARKING ARROW PAINT EXISTING
TEMPORARY MARKING ARROW REMOVABLE TAPE EXISTING
21+00MB
OLD HWY 18 RD
ONLY
GUY
IP

NORTH / SOUTH (INTERSTATE 39) / WEST 10 / EAST 66 / WEST 66 — FAR LANE / FAR LANE / FAR LANE / NEAR LANE — M3-4 24"X12", M1-6 24"X24", 24"X24"

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3A	SHEET 229	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025031-TCZ.DWG
LAYOUT NAME - 01
PLOT DATE : 3/29/2021 3:06 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, WO RK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TM010 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

WO1-6
48" X 24"
TYPE III BARRICADE

WO12-1D
24"X24"

TT4
3' LINE 9' GAP
EXISTING

TT4
YELLOW
EXISTING

TT4
EXISTING

TT4
DOUBLE YELLOW

BEGIN
RIGHT
TURN
LANE
R3-20R
24"X36"

ONLY
R3-8
36"X30"

99+00EX
100+00EX
23+00MB
24+00MB
25+00MB
26+00MB
27+00MB
28+00MB
29+00MB
30+00
15'
R50'
25'
11'
16'
6'
12'
+64
+37
10'
11'
11'
50'
CONC
ASPH
GUY
MAPLE BLUFF RD
GOLLA RD
WOODLAND CIR

WO1-4R

ROAD
WORK
AHEAD
W20-1A

END
ROAD WORK
G20-2A
48"X24"

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3A	SHEET 230	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025031-TCZ.DWG
LAYOUT NAME - 02
PLOT DATE : 3/29/2021 3:07 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

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

2 WO1-6 48" X 24" — TYPE III BARRICADE

3 NORTH / WEST 66 / SOUTH 39 / WEST 10 / EAST 66 — FAR LANE / NEAR LANE / NEAR LANE / NEAR LANE — M3-2 24"X12", M1-6 24"X24", 24"X24"

4 WO12-1D 24"X24"

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

N

MAPLE BLUFF RD
24+00MB
23+00MB
22+00MB
21+00MB
OLD HWY 18 RD
GUY
TEMPORARY MARKING ARROW REMOVABLE TAPE
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TP4 CROSSWALK EXISTING
TT4 CROSSWALK EXISTING
231'
TT4 EXISTING
TT8 EXISTING
50'
18'
+24
USH 10 WB
+88
+82
+94
+38
11'
10'
12'
R50'
15'
25'
6'
99+00EX
100+00EX
101+00EX
102+00EX
103+00EX
104+00EX
105+00EX
106+00EX
50' TAPER
50' TURN LANE
USH 10 EB
240' SHIFTING TAPER
75' SHIFTING TAPER
TSL PAINT 18-INCH EXISTING
TT4 3' LINE 9' GAP EXISTING
TT4 3' LINE 9' GAP EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TP4 EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TP8 EXISTING
TP8 3' LINE 9' GAP EXISTING
TEMPORARY MARKING ARROW PAINT EXISTING
TEMPORARY MARKING ARROW REMOVABLE TAPE EXISTING
TP4 (WHITE) EXISTING
TP4 (YELLOW) EXISTING

Maple Bluff Rd — D1-61 84"X15"
BEGIN RIGHT TURN LANE — R3-20R 24"X36"
NORTH / SOUTH 39 / WEST 10 / EAST 66 / RIGHT LANE — M3-2 36"X18", M1-6 36"X36", 60"X12"
BEGIN LEFT TURN LANE — R3-20L 24"X36"
ONLY — R3-50R 30"X36"
ONLY — R3-50R 30"X36"
SPEED LIMIT 40
WEST 66 / USE LEFT LANE — M3-4 24"X12", M1-6 24"X24", MO4-20L 36"X36"
NORTH / SOUTH 39 / WEST 10 / EAST 66 / WEST 66 — FAR LANE / FAR LANE / FAR LANE / NEAR LANE — M3-4 24"X12", M1-6 24"X24", 24"X24"

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

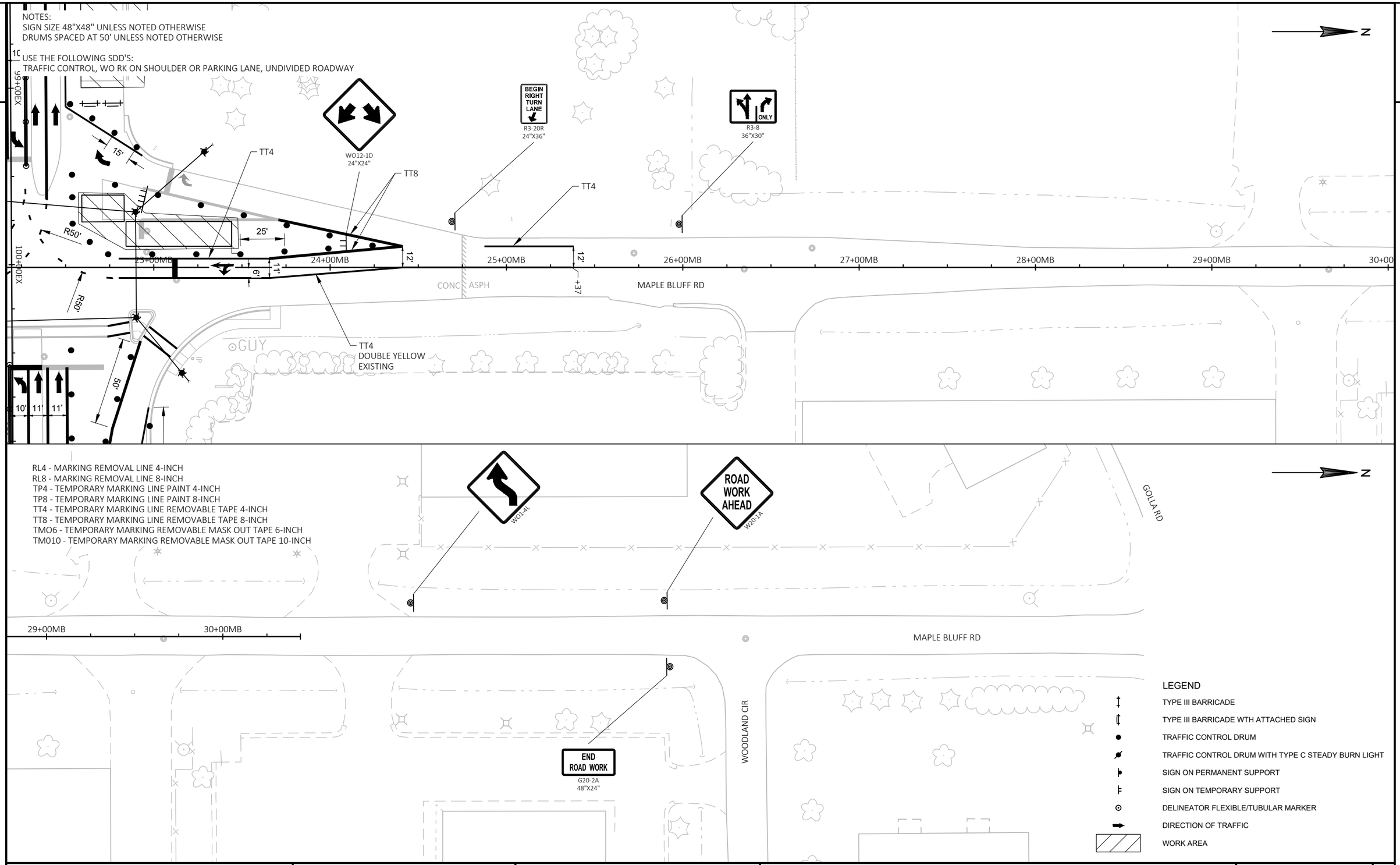
PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3B	SHEET 231	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025032-TCZ.DWG
LAYOUT NAME - 01
PLOT DATE : 3/29/2021 3:11 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, WO RK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TM010 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH



LEGEND

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

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3B	SHEET 232	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

1 R11-2L 48"X30" LANE CLOSED — TYPE III BARRICADE

2 W01-6 48"X24" — TYPE III BARRICADE

3 NORTH | WEST 66 FAR LANE | SOUTH INTERSTATE 39 NEAR LANE | WEST 10 NEAR LANE | EAST 66 NEAR LANE — M3-2 24"X12", M1-6 24"X24", 24"X24"

MAPLE BLUFF RD
24+00MB
23+00MB
22+00MB
21+00MB
OLD HWY 18 RD
TEMPORARY MARKING ARROW REMOVABLE TAPE EXISTING
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH EXISTING
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TP4 CROSSWALK EXISTING
TT4 CROSSWALK EXISTING
TT4
6'
11'
231'
50'
TT4 EXISTING
TT8 EXISTING
18'
+24
USH 10 WB
+88
+82
+94
+38
11'
12'
99+00EX
100+00EX
101+00EX
102+00EX
103+00EX
104+00EX
105+00EX
106+00EX
25'
50' TAPER
50' TURN LANE
USH 10 EB
240' SHIFTING TAPER
75' SHIFTING TAPER
TP4 (WHITE) EXISTING
TP4 (YELLOW) EXISTING
TP4 EXISTING
TP8 EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TP8 3' LINE 9' GAP EXISTING
TT4 3' LINE 9' GAP EXISTING
TT4 3' LINE 9' GAP EXISTING
TEMPORARY MARKING ARROW PAINT EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TEMPORARY MARKING ARROW REMOVABLE TAPE EXISTING
R40'
R50'
15'

Maple Bluff Rd — D1-61 84"X15"
BEGIN RIGHT TURN LANE — R3-20R 24"X36"
BEGIN LEFT TURN LANE — R3-20L 24"X36"
ONLY — R3-50R 30"X36"
ONLY — R3-50R 30"X36"
SPEED LIMIT 40

NORTH | SOUTH INTERSTATE 39 | WEST 10 | EAST 66 — M3-2 36"X18", M1-6 36"X36"
RIGHT LANE — 60"X12"

WEST 66 — M3-4 36"X18", M1-6 36"X36"
USE LEFT LANE — MO4-20L 36"X36"

NORTH | SOUTH INTERSTATE 39 | WEST 10 | EAST 66 | WEST 66 — M3-4 24"X12", M1-6 24"X24"
FAR LANE | FAR LANE | FAR LANE | NEAR LANE — 24"X24"

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3C	SHEET 233	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025033-TCZ.DWG
LAYOUT NAME - 01
PLOT DATE : 3/29/2021 3:15 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, WO RK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TM010 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

1 WO1-6 48" X 24" TYPE III BARRICADE

BEGIN RIGHT TURN LANE R3-20R 24"X36"

ONLY R3-8 36"X30"

TT8

25'

75' SHIFTING TAPER

15' R50' R40' R60' 50'

11' 11' 11' 11' 6'

99+00EX 100+00EX

23+00MB 24+00MB 25+00MB 26+00MB 27+00MB 28+00MB 29+00MB 30+00

CONC ASPH

MAPLE BLUFF RD

TT4 DOUBLE YELLOW EXISTING

TT4

TT4 DOUBLE YELLOW

RL4 DOUBLE YELLOW

GUY

GOLLA RD

W01-4L

ROAD WORK AHEAD W20-1A

29+00MB 30+00MB

MAPLE BLUFF RD

END ROAD WORK G20-2A 48"X24"

WOODLAND CIR

LEGEND

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

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3C	SHEET 234	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025033-TCZ.DWG
LAYOUT NAME - 02

PLOT DATE : 3/29/2021 3:16 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

1 R11-2B 48"X30" BRIDGE OUT — TYPE III BARRICADE
2 W01-6 48"X24" — TYPE III BARRICADE
3 W01-6 48"X24" — TYPE III BARRICADE

N

TT4 DOUBLE YELLOW

TP4 EXISTING

308+00ZBT

IH 39 NB OFF RAMP

284+00ZA

IH 39 NB ON RAMP

ASPHALTIC SURFACE TEMPORARY

NORTH / SOUTH / WEST / EAST
BUSTATE 39 / 10 / 66
M3-2 24"X12"
M1-6 24"X24"
MO6-2 21"X21"

TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING

ASPHALTIC SURFACE TEMPORARY 5 FEET WIDE

WO5-52R 12"X36"

TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING

309+00ZBT

STOP R1-1 36"X36"

283+00ZA

TP8

TP8 EXISTING

92+00 93+00 94+00 95+00 96+00 97+00 98+00 99+00

97' TAPER

R50

15' 15' 25' 25' 26' 12' +25 +60 +43

92+00EX 93+00EX 94+00EX 95+00EX 96+00EX 97+00EX 98+00EX 99+00EX

USH 10 WB

USH 10 EB

120' SHIFTING TAPER

75' SHIFTING TAPER

11' 11' 10' 13'

TP4 EXISTING

R6-1R 36"X12" ONE WAY
R6-2R 24"X30" ONE WAY
R3-2 24"X24"
WEST 66
M3-4 24"X12"
M1-6 24"X24"
M6-1 21"X21"
R3-1 24"X24"

IH 39 NB OFF RAMP (CLOSED)

TP4 DOUBLE YELLOW EXISTING

BEGIN LEFT TURN LANE R3-20L 24"X36"
WEST 66
M3-4 24"X12"
M1-6 24"X24"
MO6-2 21"X21"

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3D	SHEET 235	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025034-TCZ.DWG
LAYOUT NAME - 01
PLOT DATE : 3/29/2021 3:37 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

N

1 R11-2L 48"X30" LANE CLOSED TYPE III BARRICADE

2 WO1-6 48"X24" TYPE III BARRICADE

3 WO1-6 48"X24" TYPE III BARRICADE

4 NORTH / WEST 66 FAR LANE / SOUTH INTERSTATE 39 NEAR LANE / WEST 10 NEAR LANE / EAST 66 NEAR LANE — M3-2 24"X12", M1-6 24"X24", 24"X24"

5 NORTH / SOUTH INTERSTATE 39 / WEST 10 / EAST 66 / RIGHT LANE — M3-2 36"X18", M1-6 36"X36", 60"X12"

6 WEST 66 USE LEFT LANE — M3-4 36"X18", M1-6 36"X36", MO4-20L 36"X36"

TP4 DOUBLE YELLOW
TP8
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
COMPLETE WORK IN THIS AREA DURING NIGHTTIME CLOSURE BETWEEN 9 PM AND 5 AM
CONCRETE PAVEMENT SHES 11-INCH
TEMPORARY MARKING STOP LINE PAINT 18-INCH

MAPLE BLUFF RD
24+00MB
23+00MB
22+00MB
21+00MB
OLD HWY 18 RD
PT
PC
R70
R50'
99+00
100+00
101+00
102+00
103+00
104+00
105+00
106+00
99+00EX
100+00EX
101+00EX
102+00EX
103+00EX
104+00EX
105+00EX
106+00EX
+84
+88
+94
+82
+38
25'
12'
11'
10'
USH 10 WB
USH 10 EB

Maple Bluff Rd D1-61 84"X15"
BEGIN RIGHT TURN LANE R3-20R 24"X36"
WO12-1D 36"X36"
160' SHIFTING TAPER
TP4
TP4 (WHITE) EXISTING
TP4 (YELLOW) EXISTING
50' TAPER
50' TURN LANE
240' SHIFTING TAPER
75' SHIFTING TAPER
SPEED LIMIT 40

MARKING REMOVAL LINE WIDE
TT4 3' LINE 9' GAP EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TT4 3' LINE 9' GAP (YELLOW)
TT4 3' LINE 9' GAP (WHITE)
TEMPORARY MARKING ARROW PAINT EXISTING
TEMPORARY MARKING ARROW REMOVABLE TAPE EXISTING
TP4 EXISTING
TP8 EXISTING
TP8 3' LINE 9' GAP EXISTING
ONLY R3-50R 30"X36"
BEGIN LEFT TURN LANE R3-20L 24"X36"
ONLY R3-50R 30"X36"

NORTH / SOUTH INTERSTATE 39 FAR LANE / WEST 10 FAR LANE / EAST 66 FAR LANE / WEST 66 NEAR LANE — M3-4 24"X12", M1-6 24"X24", 24"X24"

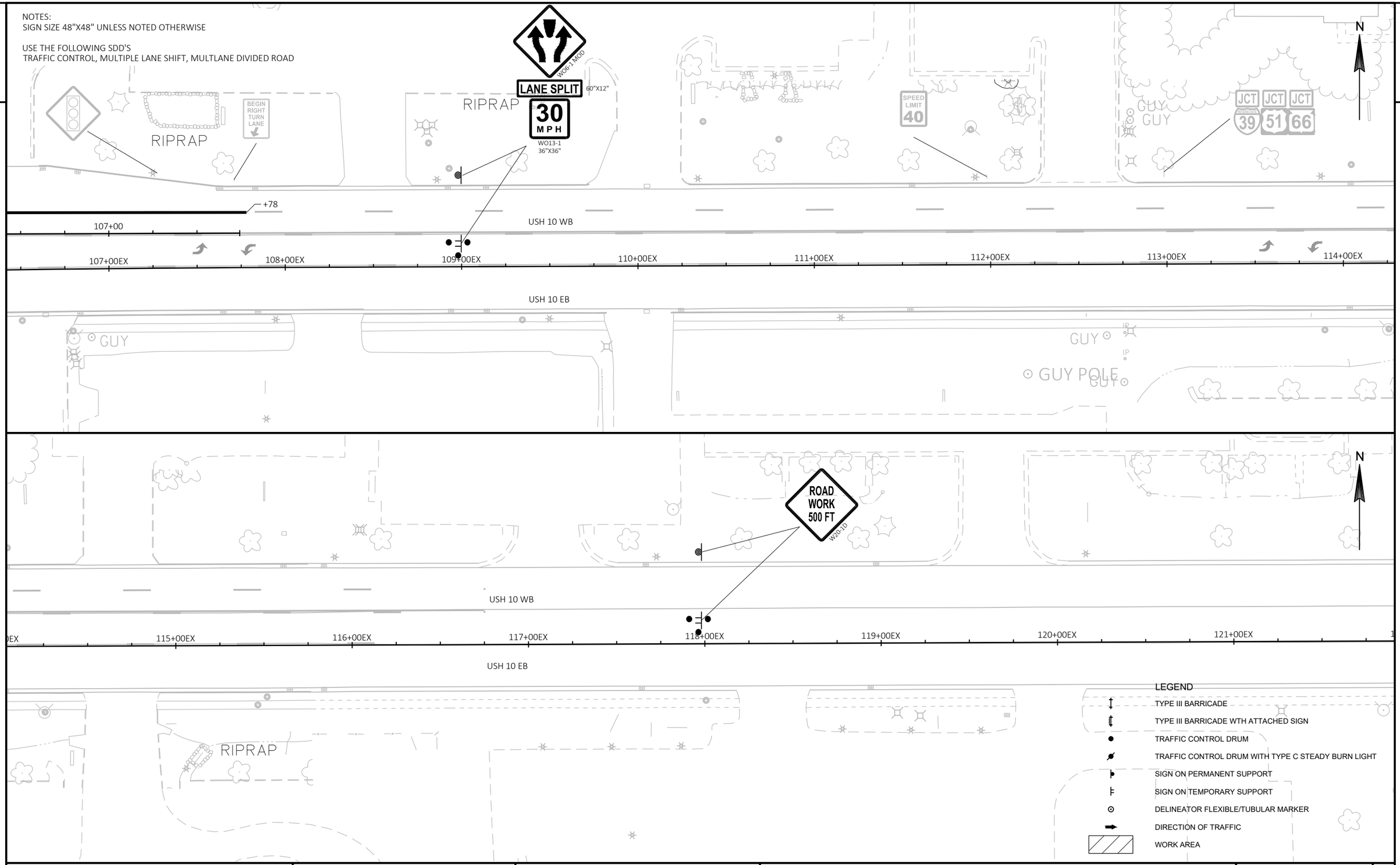
LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3D	SHEET 236	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025034-TCZ.DWG
LAYOUT NAME - 02
PLOT DATE : 3/29/2021 3:37 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD



PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3D	SHEET 237	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025034-TCZ.DWG
LAYOUT NAME - 03

PLOT DATE : 3/29/2021 3:37 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE
-
USE THE FOLLOWING SDD'S

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

2

R50'
15'
309+00ZBT
308+00ZBT
307+00ZBT
306+00ZBT
305+00ZBT
304+00ZBT
303+00ZBT
302+00ZBT
15'
95+00
TP4 (YELLOW) EXISTING
TP4 EXISTING
ASPHALTIC SURFACE TEMPORARY
IH 39 NB OFF RAMP
290+00ZA
289+00ZA
288+00ZA
287+00ZA
286+00ZA
285+00ZA
284+00ZA
283+00ZA
1
25'
15'
15'
IH 39 NB ON RAMP
TT4 DOUBLE YELLOW
TT4
96+00
RIPRAP
290+00ZA
302+00ZBT
15'
TP4 EXISTING
291+00ZA
301+00ZBT
TT4 WHITE
TT4 YELLOW
15'
292+00ZA
300+00ZBT
TP4 (YELLOW) EXISTING
IH 39 NB OFF RAMP
293+00ZA
15'
294+00ZA
IH 39 NB ON RAMP
295+00ZA
296+00ZA
297+00ZA
298+00ZA

N

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3D	SHEET 238	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, WO RK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TM010 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

STOP
R1-1
36"X36"

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

ONLY
R3-8
36"X30"

TP8

TP8
3' LINE 9' GAP

TP4
DOUBLE YELLOW

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

MAPLE BLUFF RD

CONC ASPH

GUY

GOLLA RD

WOODLAND CIR

R70

R50'

10' 11' 12'

23+00MB 24+00MB 25+00MB 26+00MB 27+00MB 28+00MB 29+00MB 30+00MB

29+00MB 30+00MB

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3D	SHEET 239	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

1 R11-2B 48"X30" BRIDGE OUT TYPE III BARRICADE
2 W01-6 48"X24" TYPE III BARRICADE
3 W01-6 48"X24" TYPE III BARRICADE
4 R11-2 48"X30" ROAD CLOSED TYPE III BARRICADE

WO5-52R 12"X36"
97' TAPER
92+00EX
93+00EX
94+00EX
95+00EX
96+00EX
97+00EX
98+00EX
99+00EX
308+00ZB
310+00ZB
IH 39 NB OFF RAMP
284+00ZA
283+00ZA
285+00
15'
TT4 DOUBLE YELLOW EXISTING
TT4 YELLOW
TT4
R50'
STOP R1-1 36"X36"
R3-1 24"X24"
IH 39 NB ON RAMP
R6-1R 36"X12" ONE WAY
R3-2 24"X24"
WEST M3-4 24"X12" 66 M1-6 24"X24" M6-1 21"X21"
NORTH SOUTH WEST EAST M3-2 24"X12" BUS STATE 39 10 66 M1-6 24"X24" MO6-2 21"X21"
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
ASPHALTIC SURFACE TEMPORARY 5 FEET WIDE EXISTING
TP8 EXISTING
TP8 EXISTING
+60
+25
25'
12'
26'
+43
120' SHIFTING TAPER
USH 10 WB
USH 10 EB
11' 11' 10' 11' 11' 13'
75' SHIFTING TAPER
TP4 EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH
ONE WAY R6-2R 24"X30"
IH 39 NB OFF RAMP (CLOSED)
TP4 DOUBLE YELLOW EXISTING
BEGIN LEFT TURN LANE R3-20L 24"X36"
WEST M3-4 24"X12" 66 M1-6 24"X24" MO6-2 21"X21"
GUY
GUYS

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3E	SHEET 240	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025035-TCZ.DWG
LAYOUT NAME - 01
PLOT DATE : 3/29/2021 3:29 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

1 R11-2L 48"X30" LANE CLOSED TYPE III BARRICADE
2 WO1-6 48"X24" TYPE III BARRICADE
3 WO1-6 48"X24" TYPE III BARRICADE
4 NORTH / WEST SOUTH WEST EAST / 66 39 10 66 / FAR LANE NEAR LANE NEAR LANE NEAR LANE — M3-2 24"X12", M1-6 24"X24", 24"X24"
5 NORTH / SOUTH WEST EAST / 39 10 66 / RIGHT LANE — M3-2 36"X18", M1-6 36"X36", 60"X12"
6 WEST 66 USE LEFT LANE — M3-4 36"X18", M1-6 36"X36", MO4-20L 36"X36"

TP4 DOUBLE YELLOW EXISTING
TP8 EXISTING
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH EXISTING
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
MAPLE BLUFF RD
24+00MB
23+00MB
22+00MB
21+00MB
OLD HWY 18 RD
PT
PC
R70'
R50'
TT4 3' LINE 9' GAP EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TEMPORARY MARKING ARROW PAINT EXISTING
TEMPORARY MARKING ARROW REMOVABLE TAPE EXISTING
TP4 EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TT4 3' LINE 9' GAP EXISTING
USH 10 WB
12'
11'
10'
99+00EX
100+00EX
101+00EX
+94
102+00EX
+82
+88
+84
103+00EX
104+00EX
105+00EX
106+00EX
+38
25'
50' TAPER
50' TURN LANE
160' SHIFTING TAPER
75' SHIFTING TAPER
240' SHIFTING TAPER
TP8 EXISTING
TP4
TP8 EXISTING
TP8 3' LINE 9' GAP EXISTING
USH 10 EB
Maple Bluff Rd D1-61 84"X15"
BEGIN RIGHT TURN LANE R3-20R 24"X36"
WO12-1D 36"X36"
ONLY R3-50R 30"X36"
BEGIN LEFT TURN LANE R3-20L 24"X36"
ONLY R3-50R 30"X36"
SPEED LIMIT 40
NORTH / SOUTH WEST EAST WEST / 39 10 66 66 / FAR LANE FAR LANE FAR LANE NEAR LANE — M3-4 24"X12", M1-6 24"X24", 24"X24"

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

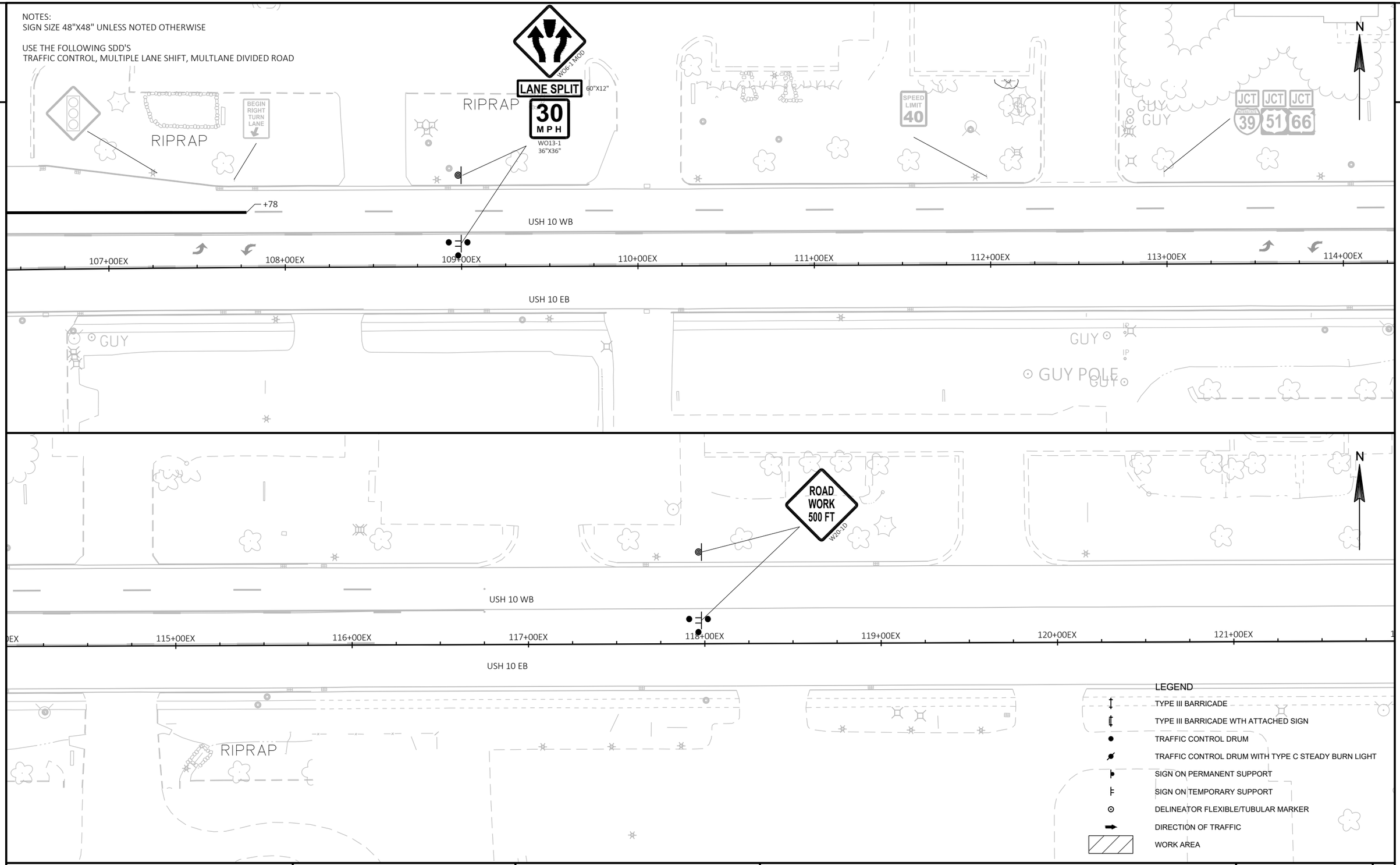
N

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3E	SHEET 241	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025035-TCZ.DWG
LAYOUT NAME - 02
PLOT DATE : 3/29/2021 3:30 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD



PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3E	SHEET 242	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025035-TCZ.DWG
LAYOUT NAME - 03

PLOT DATE : 3/29/2021 3:30 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

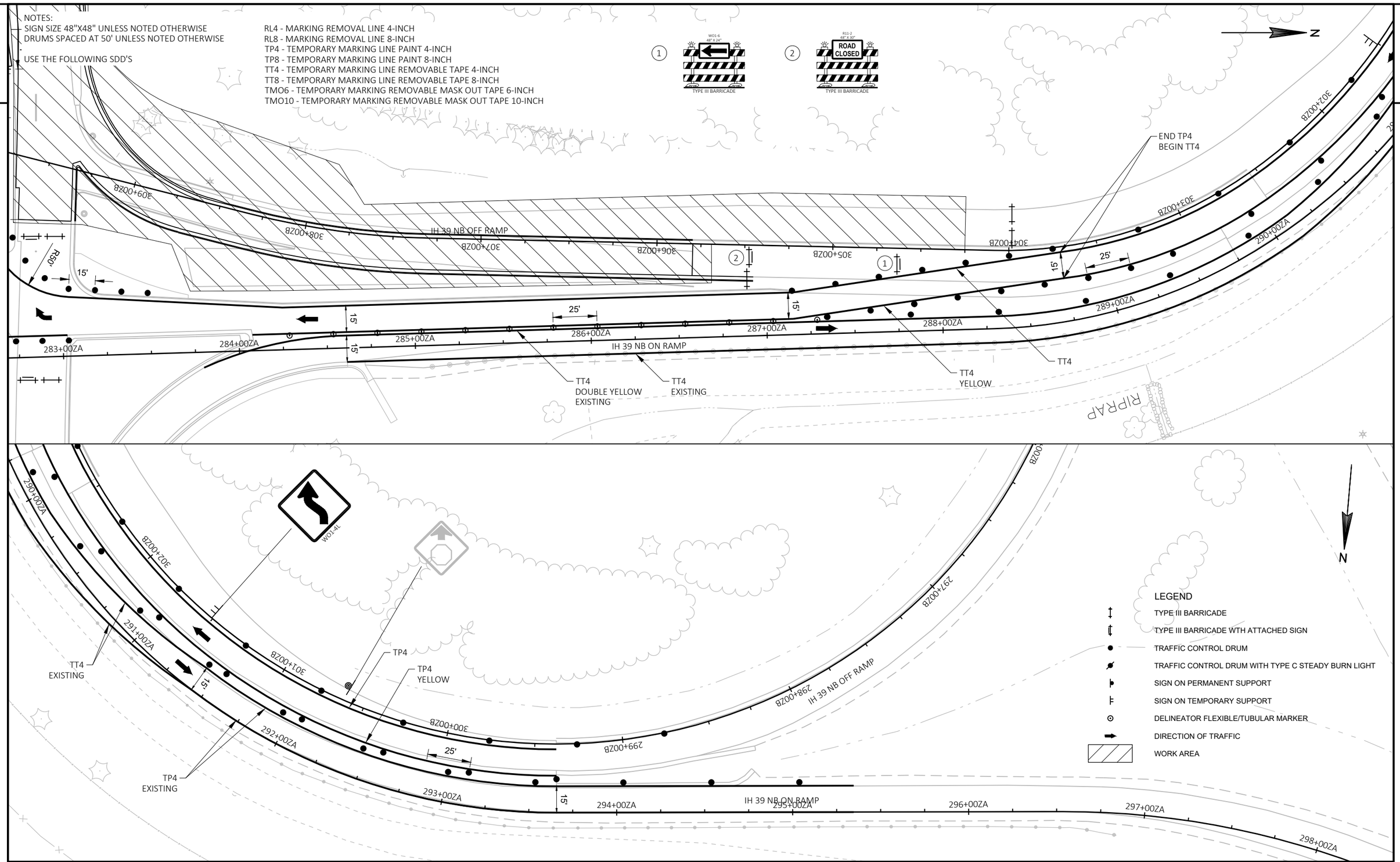
WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE
.
USE THE FOLLOWING SDD'S

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

1 W01-6 48" X 24" TYPE III BARRICADE

2 R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE



PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3E	SHEET 243	E

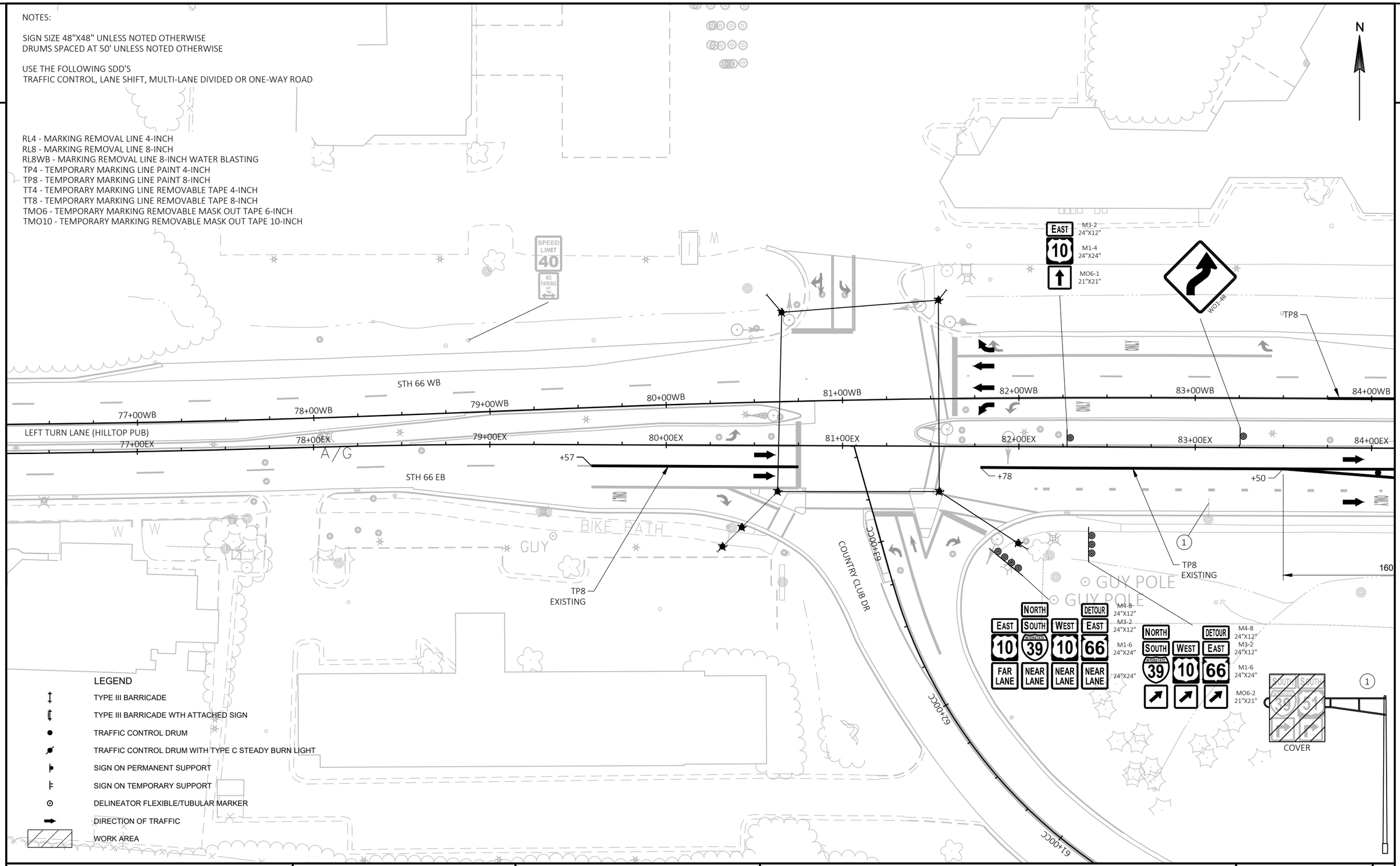
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025035-TCZ.DWG
LAYOUT NAME - 04
PLOT DATE : 3/29/2021 3:30 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
RL8WB - MARKING REMOVAL LINE 8-INCH WATER BLASTING
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3F	SHEET 244	E

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE
TEMPORARY MARKING TAPE SHALL BE USED ON ALL NEW PAVEMENT

▲TEMPORARY DETECTABLE WARNING FIELD

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

2 W01-6 48" X 24" TYPE III BARRICADE

N

TT4 YELLOW
TT4
ASPHALTIC SURFACE TEMPORARY
SEE CROSS SECTIONS: STAGE 4 TEMPORARY PAVEMENT
ASPHALTIC SURFACE TEMPORARY
TP8
TP8 3' LINE 9' GAP
R3-2 24"X24"
WO1-4L
STH 66 WB
84+00WB
85+00WB
86+00WB
87+00WB
88+00WB
89+00WB
90+00WB
91+00W
84+00EX
85+00EX
86+00EX
87+00EX
88+00EX
89+00EX
90+00EX
91+00E
25'
12'
15'
11'
+50
+54
+25
STH 66 EB
100' SHIFTING TAPER
160' SHIFTING TAPER
EXISTING MARKING
WO11-2 48"X48"
WO16-7L 48"X24"
271+00ZD
272+00ZD
IH 39 SB ON RAMP
IH 39 SB OFF RAMP
ONLY
SOUTH 39 51
COVER
WO4-3R 48"X48"
COVER
TEMPORARY PEDESTRIAN BARRIER
SEE OTHER STAGE 3 TRAFFIC CONTROL SHEETS FOR RAMP DETAILS

LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3F	SHEET 245	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025038-TCZ.DWG
LAYOUT NAME - 02
PLOT DATE : 6/29/2021 3:38 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

1 R11-2 48"X30" ROAD CLOSED TYPE III BARRICADE

2 W01-6 48"X24" TYPE III BARRICADE

3 NORTH / SOUTH / WEST / EAST; INTERSTATE 39; 10; 66 — M3-2 24"X12", M1-6 24"X24", MO6-2 21"X21"

4 WEST 66 — M3-4 24"X12", M1-6 24"X24", MO6-1 21"X21"

TEMPORARY MARKING STOP LINE PAINT 18-INCH

R6-1R 36"X12" ONE WAY, R3-2 24"X24"

STOP R1-1 36"X36"

WEST 66 — M3-4 24"X12", M1-6 24"X24", M6-1 21"X21"

R3-1 24"X24"

IH 39 NB OFF RAMP

IH 39 NB ON RAMP

308+00ZB

309+00ZB

310+00ZB

284+00ZA

285+00

183+00ZA

ASPHALTIC SURFACE TEMPORARY
SEE CROSS SECTIONS: STAGE 4 TEMPORARY PAVEMENT

TT4
3' LINE 9' GAP

TT4
TT4
YELLOW

TT4
YELLOW

TP8
EXISTING

TEMPORARY MARKING
STOP LINE PAINT 18-INCH
EXISTING

ASPHALTIC SURFACE TEMPORARY
5 FEET WIDE
EXISTING

+60

+25

12'

11'

16'

92+00WB
93+00WB
94+00WB
95+00WB
96+00WB
97+00WB
98+00WB
99+00WB

92+00EX
93+00EX
94+00EX
95+00EX
96+00EX
97+00EX
98+00EX
99+00EX

+43

USH 10 WB

USH 10 EB

10'

13'

75' SHIFTING TAPER

TP4
EXISTING

TP4
DOUBLE YELLOW
EXISTING

IH 39 NB OFF RAMP
(CLOSED)

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

GUY

GUY'S

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3F	SHEET 246	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025038-TCZ.DWG
LAYOUT NAME - 03
PLOT DATE : 6/29/2021 3:38 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

2 W01-6 48"X 24" TYPE III BARRICADE

3 NORTH / SOUTH / WEST / EAST
WEST 66 FAR LANE | SOUTH 39 NEAR LANE | WEST 10 NEAR LANE | EAST 66 NEAR LANE
M3-2 24"X12"
M1-6 24"X24"
24"X24"

5 NORTH / SOUTH / WEST / EAST
39 / 10 / 66
RIGHT LANE
M3-2 36"X18"
M1-6 36"X36"
60"X12"

6 WEST 66 / USE LEFT LANE
M3-4 36"X18"
M1-6 36"X36"
MO4-20L 36"X36"

Maple Bluff Rd D1-61 84"X15"
BEGIN RIGHT TURN LANE R3-20R 24"X36"

TT4 3' LINE 9' GAP EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TP8
TP8 EXISTING
160' SHIFTING TAPER
TP4 EXISTING
TP4 YELLOW
TP4
USH 10 WB
USH 10 EB
MAPLE BLUFF RD
OLD HWY 18 RD
24+00MB
23+00MB
22+00MB
21+00MB
99+00WB
100+00WB
101+00WB
102+00WB
103+00WB
104+00WB
105+00WB
106+00WB
99+00EX
100+00EX
101+00EX
102+00EX
103+00EX
104+00EX
105+00EX
106+00EX
PT
PC
R65'
R50'
R75'
15'
12'
11'
10'
+94
+82
+19
25' 25'
50' TAPER
50' TURN LANE
75' SHIFTING TAPER
TP4 EXISTING
TT4 3' LINE 9' GAP
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TEMPORARY MARKING ARROW PAINT EXISTING
TEMPORARY MARKING ARROW REMOVABLE TAPE EXISTING
ONLY
BEGIN LEFT TURN LANE R3-20L 24"X36"
ONLY R3-5OR 30"X36"
ONLY R3-5OR 30"X36"
SPEED LIMIT 40
GUY
IP
W

NORTH / SOUTH / WEST / EAST / WEST
39 / 10 / 66 / 66
FAR LANE | FAR LANE | FAR LANE | NEAR LANE
M3-4 24"X12"
M1-6 24"X24"
24"X24"

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3F	SHEET 247	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025038-TCZ.DWG
LAYOUT NAME - 04
PLOT DATE : 6/29/2021 3:39 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD

TP4

BEGIN RIGHT TURN LANE

WO1-4BR

30 MPH

WO13-1
36"X36"

SPEED LIMIT 40

JCT 39 JCT 51 JCT 66

GUY

+78

107+00WB

USH 10 WB

107+00EX 108+00EX 109+00EX 110+00EX 111+00EX 112+00EX 113+00EX 114+00EX

USH 10 EB

GUY POLE

ROAD WORK 500 FT

W20-1D

USH 10 WB

115+00EX 116+00EX 117+00EX 118+00EX 119+00EX 120+00EX 121+00EX

USH 10 EB

N

LEGEND

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

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3F	SHEET 248	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025038-TCZ.DWG
LAYOUT NAME - 05

PLOT DATE : 6/29/2021 3:39 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

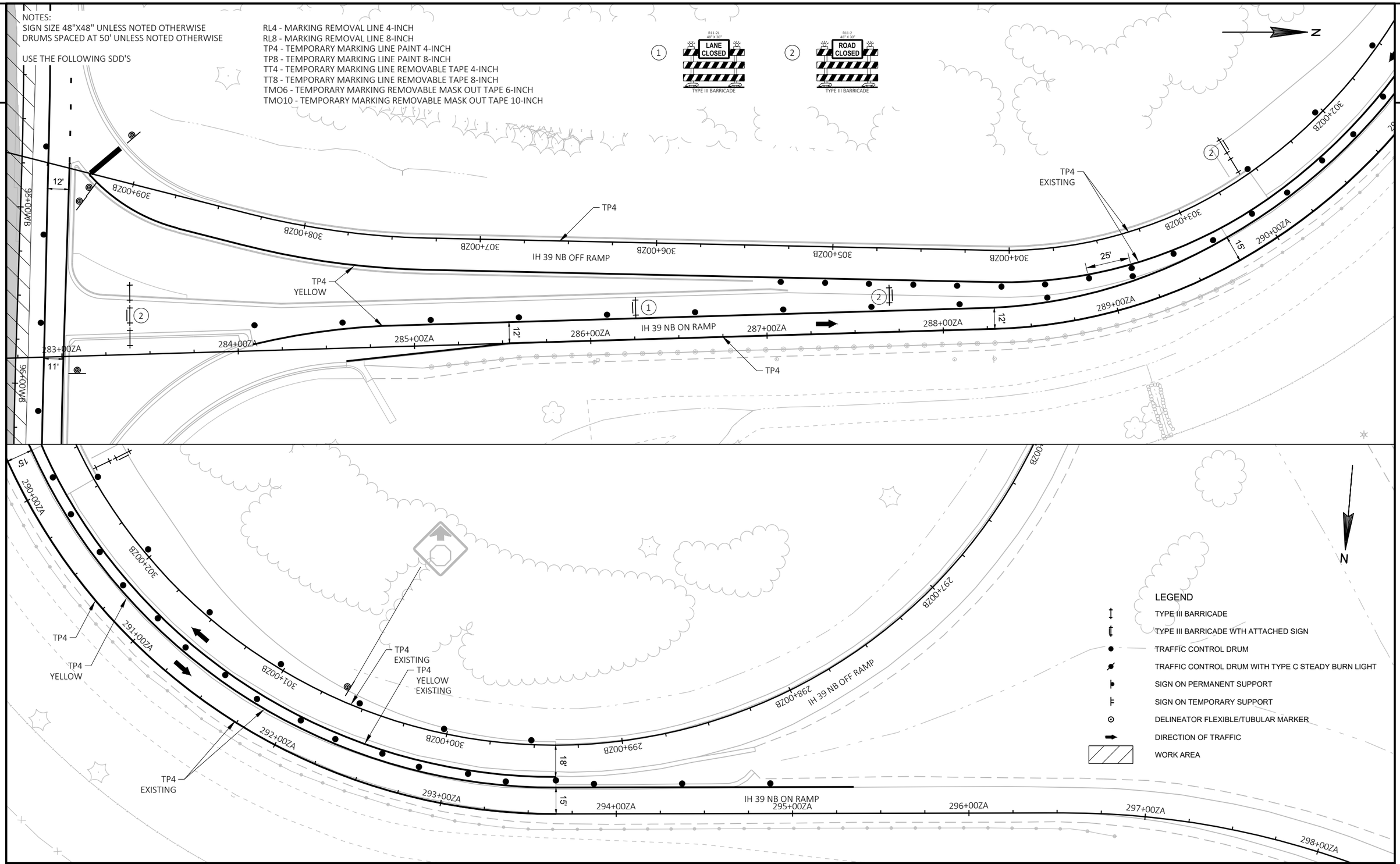
NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

2 R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE



PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3F	SHEET 249	E

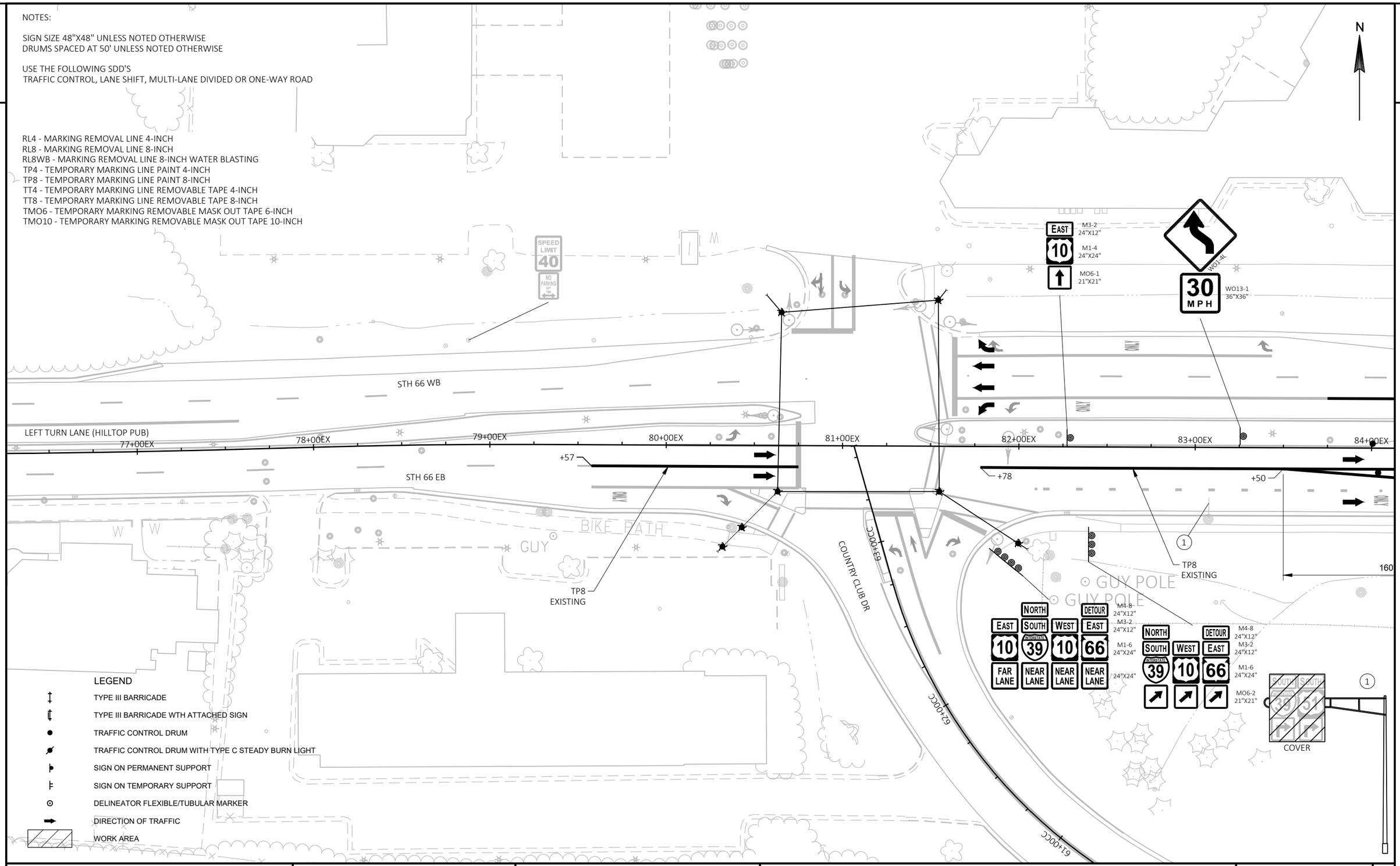
2

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
RL8WB - MARKING REMOVAL LINE 8-INCH WATER BLASTING
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3G	SHEET 250	E

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE
TEMPORARY MARKING TAPE SHALL BE USED ON ALL NEW PAVEMENT

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

1 R11-2L 48" X 30" LANE CLOSED TYPE III BARRICADE
2 W01-6 48" X 24" TYPE III BARRICADE
3 W01-6 48" X 24" TYPE III BARRICADE

N

W01-4L

ASPHALTIC SURFACE TEMPORARY
SEE CROSS SECTIONS: STAGE 4 TEMPORARY PAVEMENT

TT4 EXISTING

TT8

R3-2 24"X24"

TP8 EXISTING

TP8 3' LINE 9' GAP EXISTING

TT4 YELLOW

STH 66 WB

12'

12'

+20

5'

11'

11'

+50

15'

+38

8'

+78

84+00EX

85+00EX

86+00EX

87+00EX

88+00EX

89+00EX

90+00EX

91+00E

+50

12'

25'

STH 66 EB

160' SHIFTING TAPER

COVER

COVER

TEMPORARY PEDESTRIAN BARRIER

IH 39 SB ON RAMP

IH 39 SB OFF RAMP

271+00ZD

272+00ZD

15'

ONLY

ONLY

ONLY

W11-2 30"X30"

W16-7L 24"X12"

SEE OTHER STAGE 3 TRAFFIC CONTROL SHEETS FOR RAMP DETAILS

GUY

GUYS

LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3G	SHEET 251	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025039-TCZ.DWG
LAYOUT NAME - 02

PLOT DATE : 6/29/2021 3:42 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

1 R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE

2 NORTH / SOUTH / WEST / EAST — M3-2 24"X12" — M1-6 24"X24" — MO6-2 21"X21"

3 WEST 66 — M3-4 24"X12" — M1-6 24"X24" — MO6-1 21"X21"

4 W01-6 48" X 24" TYPE III BARRICADE

R6-1R 36"X12" ONE WAY — R3-2 24"X24"

STOP R1-1 36"X36"

WEST 66 — M3-4 24"X12" — M1-6 24"X24" — M6-1 21"X21"

R3-1 24"X24"

IH 39 NB OFF RAMP

IH 39 NB ON RAMP

IH 39 NB OFF RAMP (CLOSED)

TT4 3' LINE 9' GAP EXISTING

TT4 EXISTING
TT4 YELLOW

TT4

TT4 YELLOW

TP8 EXISTING

TEMPORARY MARKING STOP LINE PAINT 18-INCH

ASPHALTIC SURFACE TEMPORARY 5 FEET WIDE EXISTING

285+00

284+00ZA

308+00ZB

309+00ZB

310+00ZB

283+00ZA

+00 +25 +50 +60 +75 +76 +51

11' 12' 33' 10' 25'

92+00EX 93+00EX 94+00EX 95+00EX 96+00EX 97+00EX 98+00EX 99+00EX

USH 10 WB

USH 10 EB

GUY

GUYS

COVER ARROW UNTIL STAGE 4

WO1-48R

30 MPH
WO13-1
36"X36"

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

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3G	SHEET 252	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025039-TCZ.DWG
LAYOUT NAME - 03
PLOT DATE : 6/29/2021 3:42 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

2 W01-6 48"X 24" TYPE III BARRICADE

3 NORTH / SOUTH / WEST / EAST / WEST — 66 / 39 (ALTERNATE) / 10 / 66 / 66 — FAR LANE / NEAR LANE / NEAR LANE / NEAR LANE
M3-2 24"X12"
M1-6 24"X24"
24"X24"

5 NORTH / SOUTH / WEST / EAST — 39 (ALTERNATE) / 10 / 66 — RIGHT LANE
M3-2 36"X18"
M1-6 36"X36"
60"X12"

6 WEST / 66 / USE LEFT LANE
M3-4 36"X18"
M1-6 36"X36"
MO4-20L 36"X36"

TEMPORARY MARKING STOP LINE PAINT 18-INCH
TT4 3' LINE 9' GAP
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TP8
TP8 EXISTING
TP4 EXISTING
TP4 YELLOW EXISTING
TP4 EXISTING
Maple Bluff Rd D1-61 84"X15"
BEGIN RIGHT TURN LANE R3-20R 24"X36"
160' SHIFTING TAPER
MAPLE BLUFF RD
24+00MB
23+00MB
22+00MB
21+00MB
OLD HWY 18 RD
R65'
R50'
R75'
PT
PC
USH 10 WB
USH 10 EB
12'
11'
10'
11'
11'
+94
+82
+25
25'
MARKING REMOVAL WIDE
99+00EX
100+00EX
101+00EX
102+00EX
103+00EX
104+00EX
105+00EX
106+00EX
R3-1 24"X24"
R3-2 24"X24" TT4 3' LINE 9' GAP
WO4-3R 48"X48"
WO4-3L 48"X48"
TT4
TT4 YELLOW
R3-50R 30"X36" ONLY
R3-20L 24"X36" BEGIN LEFT TURN LANE
SPEED LIMIT 40
TEMPORARY MARKING ARROW PAINT EXISTING
TEMPORARY MARKING ARROW REMOVABLE TAPE EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
GUY
YS
W
IP

NORTH / SOUTH / WEST / EAST / WEST — 39 (ALTERNATE) / 10 / 66 / 66 — FAR LANE / FAR LANE / FAR LANE / NEAR LANE
M3-4 24"X12"
M1-6 24"X24"
24"X24"

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3G	SHEET 253	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025039-TCZ.DWG
LAYOUT NAME - 04
PLOT DATE : 6/29/2021 3:42 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD

TP4
EXISTING

BEGIN RIGHT TURN LANE

WO1-4BR

30 MPH
WO13-1
36"X36"

SPEED LIMIT 40

JCT 39 JCT 51 JCT 66

GUY

+78

USH 10 WB

107+00EX | 108+00EX | 109+00EX | 110+00EX | 111+00EX | 112+00EX | 113+00EX | 114+00EX

USH 10 EB

GUY POLE

ROAD WORK 500 FT
W20-1D

USH 10 WB

115+00EX | 116+00EX | 117+00EX | 118+00EX | 119+00EX | 120+00EX | 121+00EX

USH 10 EB

LEGEND

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

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 3G	SHEET 254	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025039-TCZ.DWG
LAYOUT NAME - 05

PLOT DATE : 6/29/2021 3:43 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

GREEN AVE

RIDGE RD

STH 66 WB

47+00EX 48+00EX 49+00EX 50+00EX 51+00EX 52+00EX 53+00EX 54+00EX

STH 66 EB

SUNRISE AVE

EAST 10 — M3-2 36"X18"; M1-4 36"X36"; USE LEFT LANE — MO4-20L 36"X36"

54+00EX 55+00EX 56+00EX 57+00EX 58+00EX 59+00EX 60+00EX 61+00EX

STH 66 WB

STH 66 EB

BIKE PATH

BIKE

NORTH DETOUR; SOUTH WEST EAST; INTERSTATE 39 10 66; RIGHT LANE — M4-8 36"X18"; M3-2 36"X18"; M1-6 36"X36"; 60"X12"

LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4	SHEET 255	E

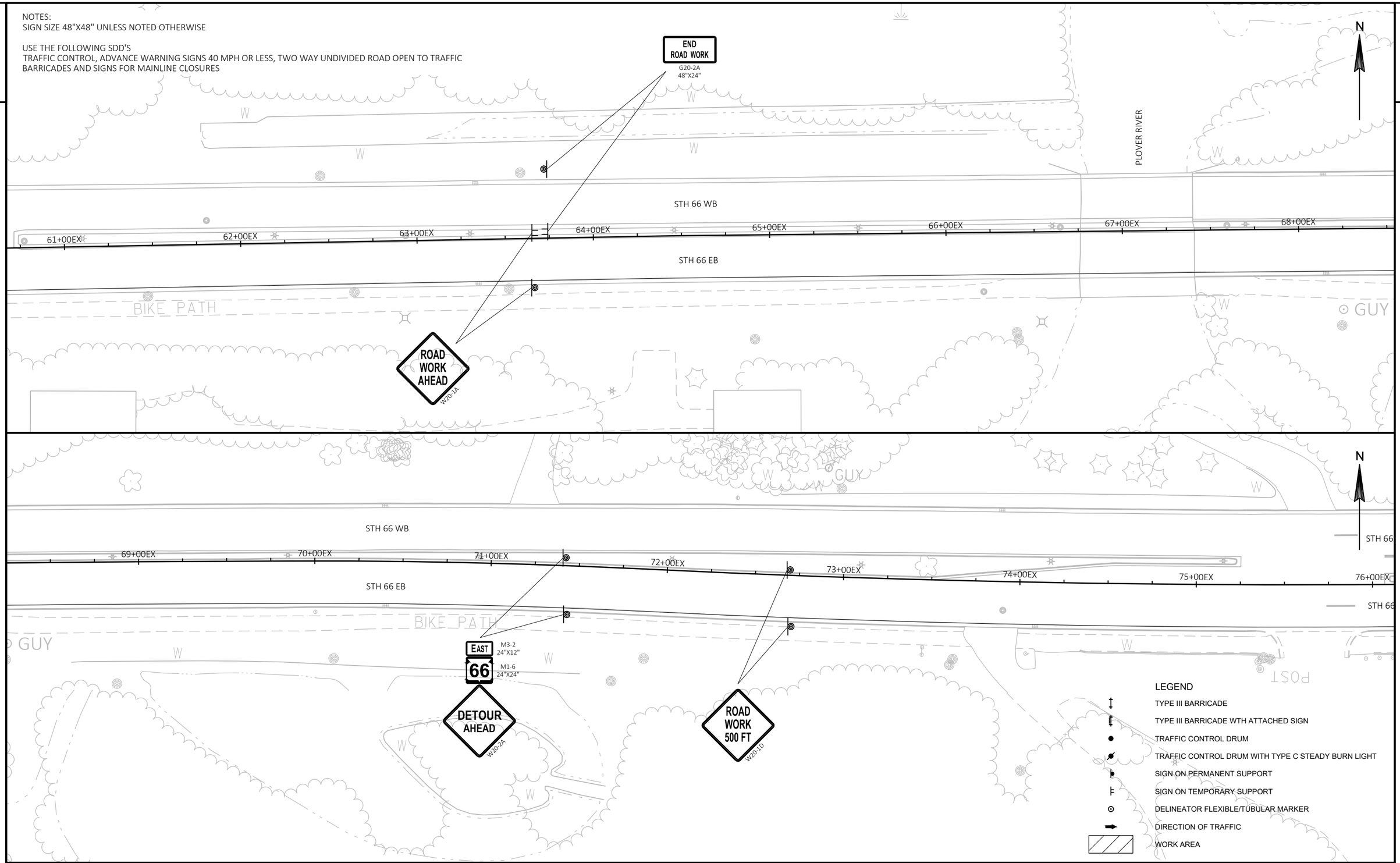
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025040-TCZ.DWG
LAYOUT NAME - 01

PLOT DATE : 3/30/2021 8:45 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC
BARRICADES AND SIGNS FOR MAINLINE CLOSURES



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4	SHEET 256	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025040-TCZ.DWG
LAYOUT NAME - 02
PLOT DATE : 3/30/2021 8:46 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

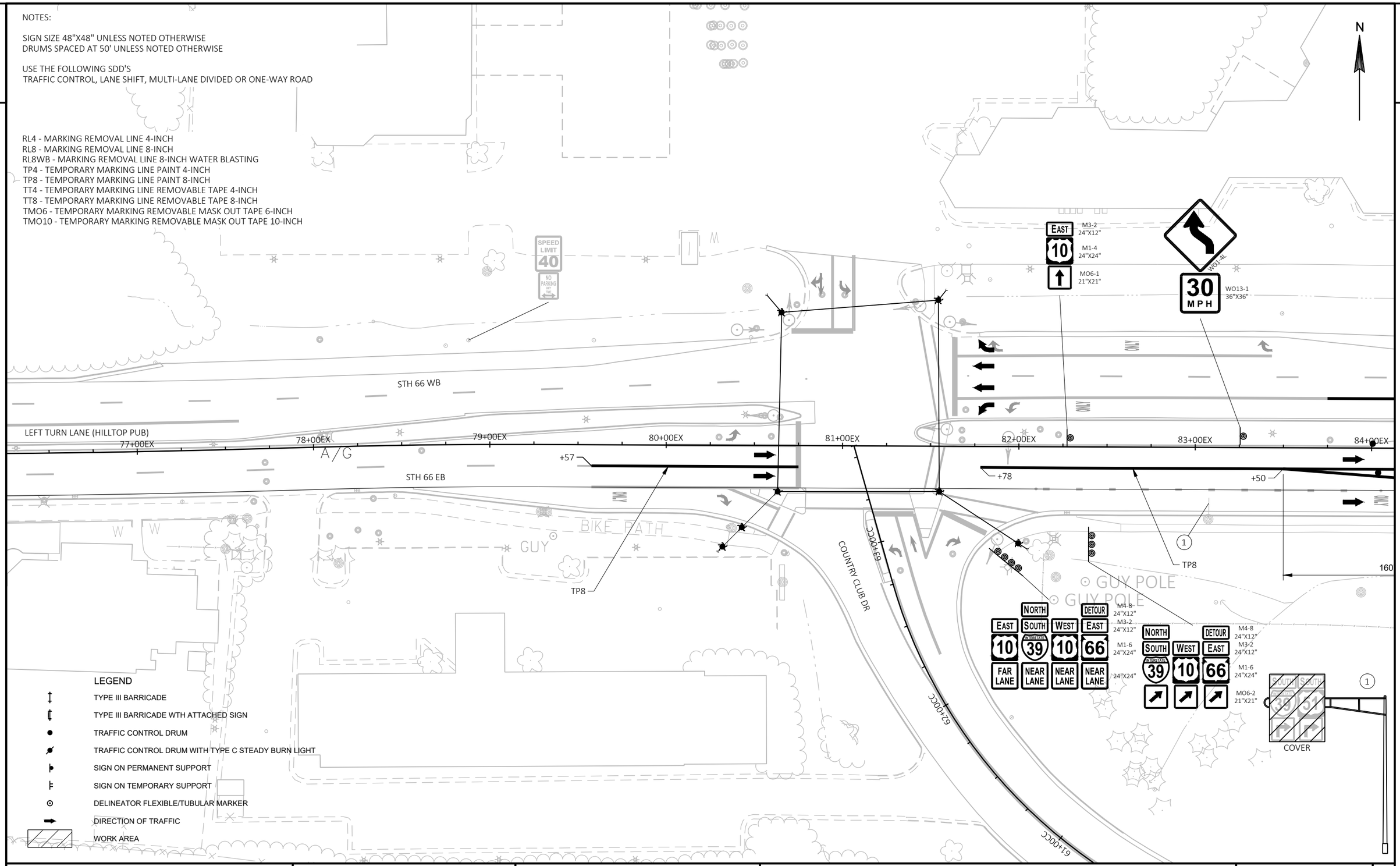
2

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
RL8WB - MARKING REMOVAL LINE 8-INCH WATER BLASTING
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4	SHEET 257	E

2

NOTES:

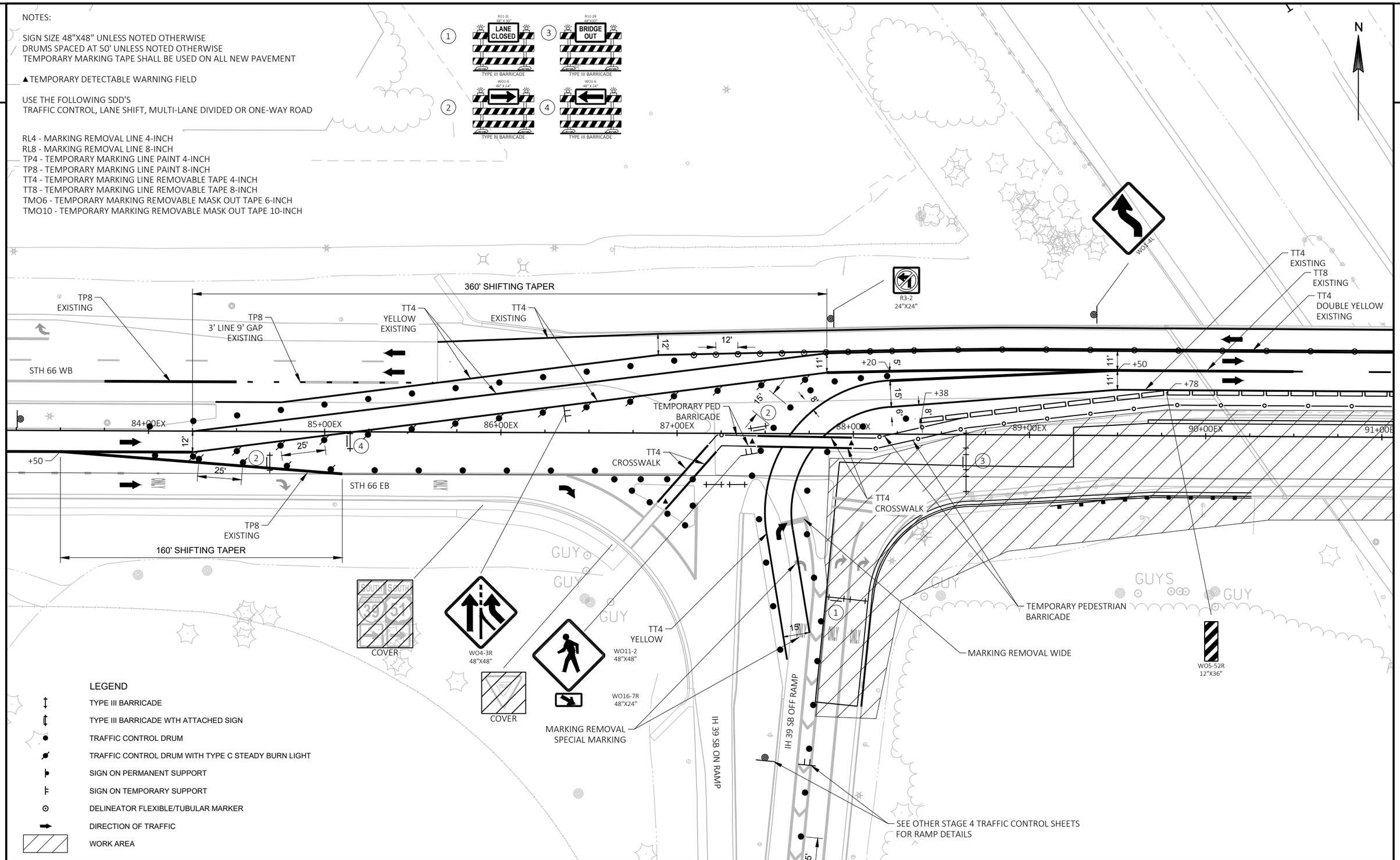
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE
TEMPORARY MARKING TAPE SHALL BE USED ON ALL NEW PAVEMENT

▲TEMPORARY DETECTABLE WARNING FIELD

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

1 R11-2L 48" X 30" LANE CLOSED TYPE III BARRICADE
2 WO1-6 48" X 24" TYPE III BARRICADE
3 R11-2R 48"X30" BRIDGE OUT TYPE III BARRICADE
4 WO1-6 48" X 24" TYPE III BARRICADE



LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4	SHEET 258	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

1 R11-2B 48"X30" BRIDGE OUT — TYPE III BARRICADE

2 R11-2 48" X 30" ROAD CLOSED — TYPE III BARRICADE

5 WO1-6 48" X 24" — TYPE III BARRICADE

3 NORTH / SOUTH / WEST / EAST — INTERSTATE 39 / 10 / 66 — M3-2 24"X12" — M1-6 24"X24" — MO6-2 21"X21"

4 WEST 66 — M3-4 24"X12" — M1-6 24"X24" — MO6-1 21"X21"

TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING

R6-1R 36"X12" ONE WAY — R3-2 24"X24"

STOP R1-1 36"X36"

WEST 66 — M3-4 24"X12" — M1-6 24"X24" — M6-1 21"X21"

R3-1 24"X24"

IH 39 NB OFF RAMP

IH 39 NB ON RAMP

TT4 3' LINE 9' GAP EXISTING

TT4 EXISTING

TT4 DOUBLE YELLOW EXISTING

TP8 EXISTING

TT8 EXISTING

TEMPORARY MARKING STOP LINE TAPE 18-INCH EXISTING

ASPHALTIC SURFACE TEMPORARY 5 FEET WIDE EXISTING

USH 10 WB

USH 10 EB

92+00EX 93+00EX 94+00EX 95+00EX 96+00EX 97+00EX 98+00EX 99+00EX

309+00ZB 308+00ZB 284+00ZA 285+00

+00 +25 +50 +60 +75 +76 +51

11' 12' 33' 10'

TEMPORARY PEDESTRIAN BARRICADE

250' SHIFTING TAPER

IH 39 NB OFF RAMP (CLOSED)

WO1-4BR — 30 MPH — WO13-1 36"X36"

BEGIN LEFT TURN LANE — R3-20L 24"X36"

BEGIN RIGHT TURN LANE — R3-20R 24"X36"

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4	SHEET 259	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025040-TCZ.DWG
LAYOUT NAME - 05
PLOT DATE : 3/30/2021 8:47 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

▲TEMPORARY DETECTABLE WARNING FIELD

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

1 R11-2 48"X 30" ROAD CLOSED TYPE III BARRICADE

2 W01-6 48"X 24" TYPE III BARRICADE

3
NORTH / WEST 66 FAR LANE | SOUTH / INTERSTATE 39 NEAR LANE | WEST 10 NEAR LANE | EAST 66 NEAR LANE
M3-2 24"X12"
M1-6 24"X24"
24"X24"

4
NORTH / SOUTH / INTERSTATE 39 | WEST 10 | EAST 66
M3-2 36"X18"
M1-6 36"X36"
RIGHT LANE 60"X12"

5 WEST 66 USE LEFT LANE
M3-4 36"X18"
M1-6 36"X36"
MO4-20L 36"X36"

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

N

MAPLE BLUFF RD
24+00MB
23+00MB
22+00MB
21+00MB
OLD HWY 18 RD
USH 10 WB
USH 10 EB
99+00EX
100+00EX
101+00EX
102+00EX
103+00EX
104+00EX
105+00EX
106+00EX
+25
+26
+82
+94
R65'
R50'
R75'
R30'
R50'
25'
15'
12'
11'
10'

TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TT4 3' LINE 9' GAP EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TP8 EXISTING
TP8 EXISTING
TT4
TEMPORARY PEDESTRIAN SURFACE PLATE
TEMPORARY PEDESTRIAN CURB RAMP
SIDEWALK CLOSED R9-9 24"X12"
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY PEDESTRIAN BARRICADE
TEMPORARY PEDESTRIAN BARRICADE
ASPHALTIC SURFACE TEMPORARY
TT4 CROSSWALK
TEMPORARY MARKING ARROW PAINT EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TEMPORARY MARKING ARROW REMOVABLE TAPE EXISTING

Maple Bluff Rd D1-61 84"X15"
BEGIN RIGHT TURN LANE R3-20R 24"X36"
160' SHIFTING TAPER
TP4 EXISTING
TP4 YELLOW EXISTING
TP4 EXISTING
BEGIN LEFT TURN LANE R3-20L 24"X36"
ONLY R3-50R 30"X36"
ONLY R3-50R 30"X36"
425' SHIFTING TAPER
TP4 EXISTING
TP4 YELLOW EXISTING
SPEED LIMIT 40

NORTH / SOUTH / INTERSTATE 39 FAR LANE | WEST 10 FAR LANE | EAST 66 FAR LANE | WEST 66 NEAR LANE
M3-4 24"X12"
M1-6 24"X24"
24"X24"

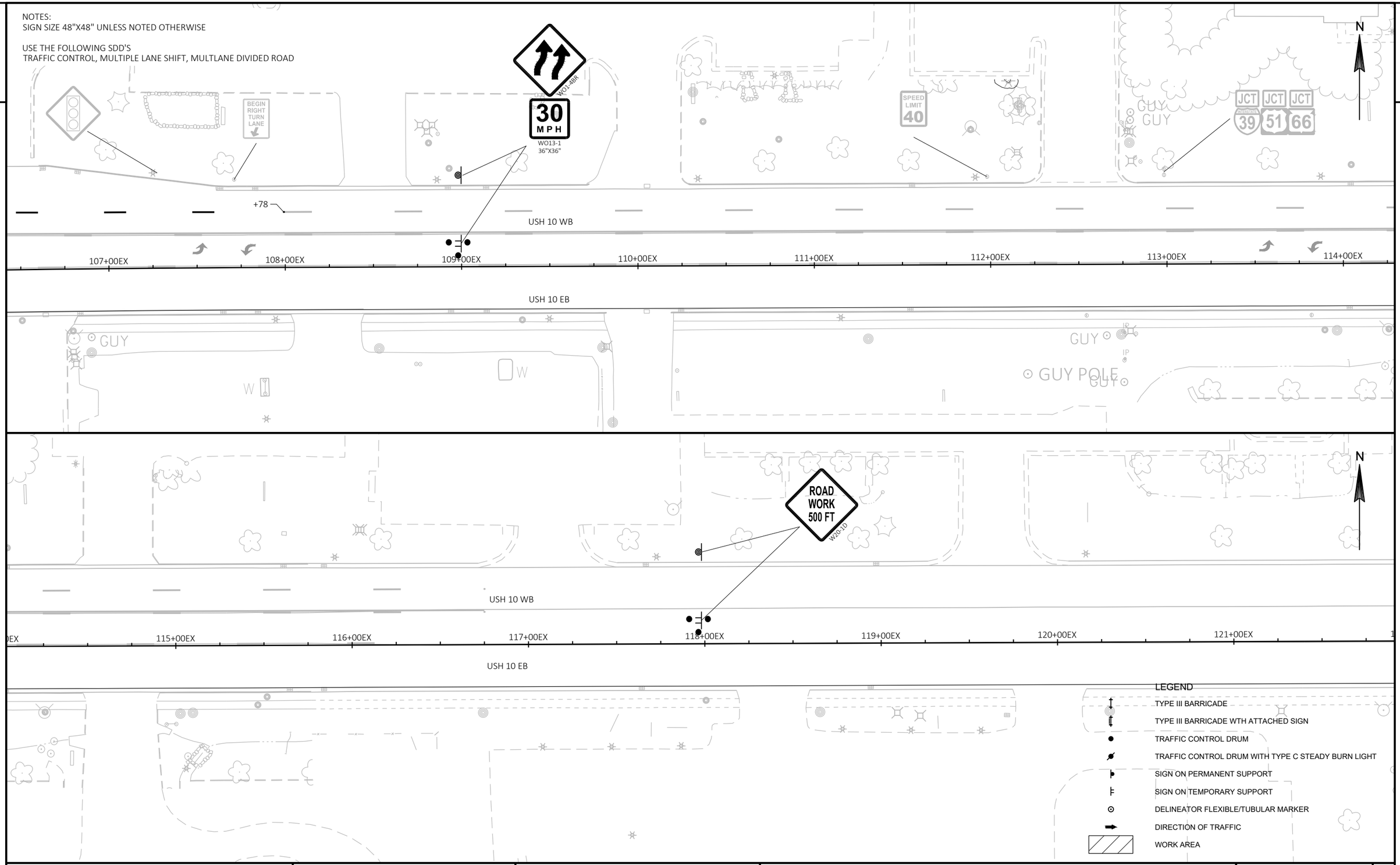
LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4	SHEET 260	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025040-TCZ.DWG
LAYOUT NAME - 06
PLOT DATE : 3/30/2021 8:47 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD



PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4	SHEET 261	E

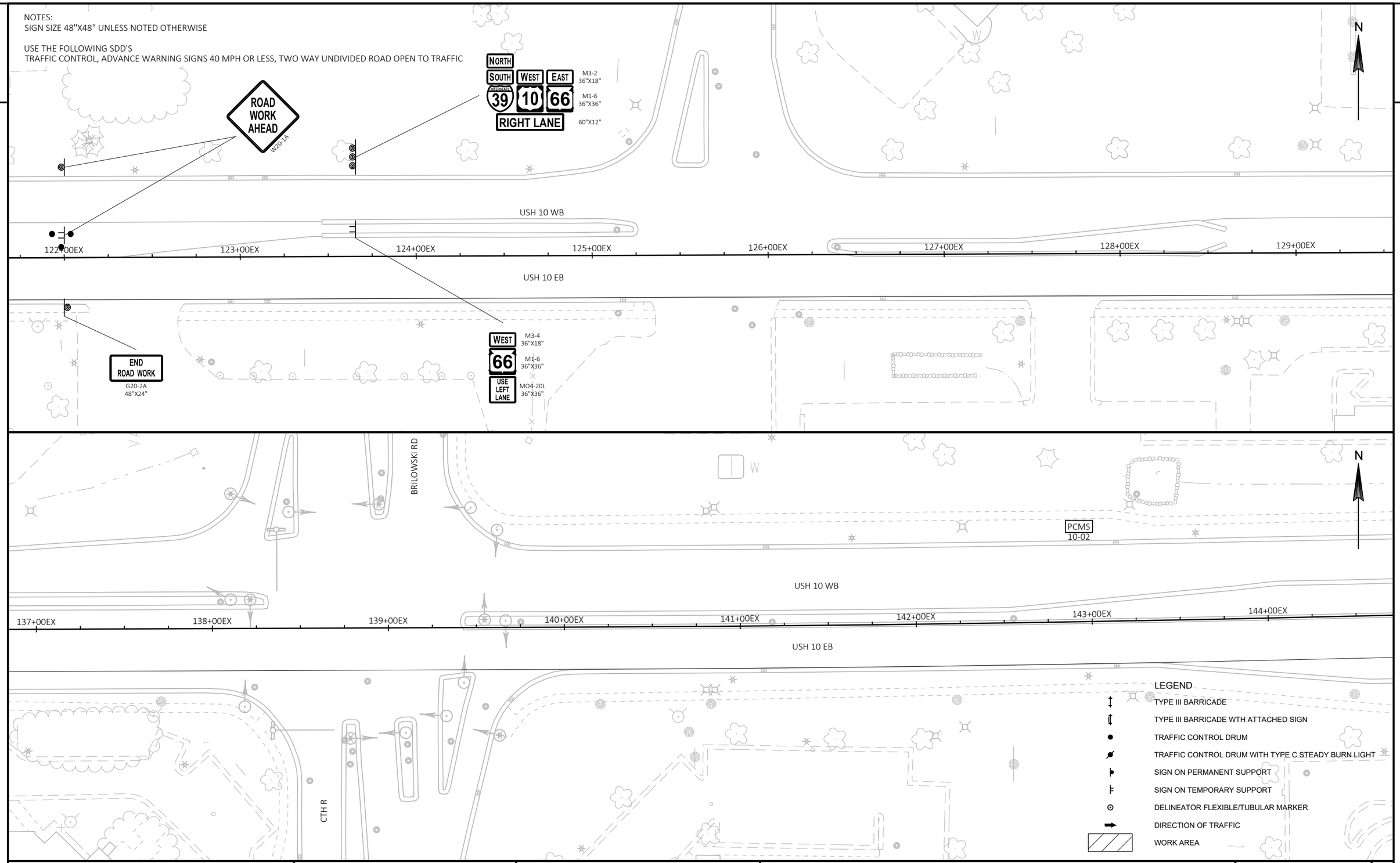
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025040-TCZ.DWG
LAYOUT NAME - 07

PLOT DATE : 3/30/2021 8:47 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC



PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4	SHEET 262	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD

(1) SEE SPECIAL PROVISIONS FOR MORE INFORMATION

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

(3) W01-6 48" X 24" TYPE III BARRICADE

TT8

IH 39 SB ON RAMP

MARKING REMOVAL SPECIAL MARKING WATER BLASTING

IH 39 SB OFF RAMP

25'

15'

N

WEST EAST 51 10 COVER

COVER Seven Point Appleton Waupaca

COVER

COVER

WO4-6R 48"X48"

WEST EAST 51 10 COVER

WO1-1R

20 MPH WO13-1 36"X36"

(1) FOOD

(1) FOOD

(1) LODGING

(1) GAS ATTRACTION

COVER

WO11-2 48"X48"

AHEAD WO16-9P 48"X24"

GUYS GUY

LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4	SHEET 263	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025040-TCZ.DWG
LAYOUT NAME - 09

PLOT DATE : 3/30/2021 8:48 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

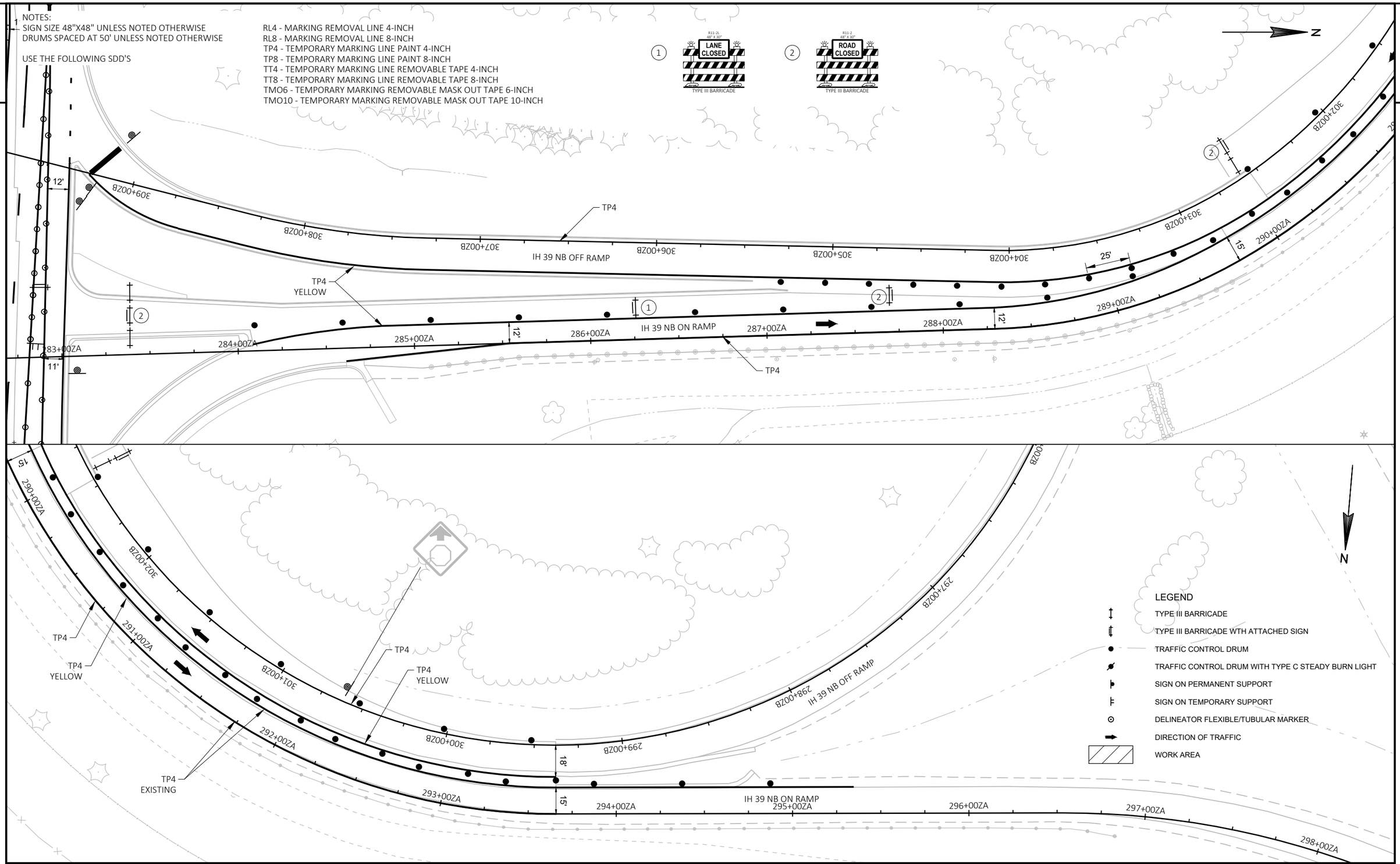
NOTES:
1 SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

2 R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE



PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4	SHEET 264	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

▲TEMPORARY DETECTABLE WARNING FIELD

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

1 R11-2 48"X30" ROAD CLOSED TYPE III BARRICADE
2 W01-6 48"X24" TYPE III BARRICADE
3 NORTH | WEST | SOUTH (BUSINESS 39) | WEST (10) | EAST (66) — FAR LANE | NEAR LANE | NEAR LANE | NEAR LANE — M3-2 24"X12", M1-6 24"X24", 24"X24"
4 NORTH | SOUTH (BUSINESS 39) | WEST (10) | EAST (66) — M3-2 24"X12", M1-6 24"X24", MO6-2 21"X21"
5 WEST (66) — M3-4 24"X12", M1-6 24"X24", MO6-1 21"X21"
6 NORTH | SOUTH (BUSINESS 39) | WEST (10) | EAST (66) | WEST (66) — FAR LANE | FAR LANE | FAR LANE | NEAR LANE — M3-4 24"X12", M1-6 24"X24", 24"X24"

N

Maple Bluff Rd D1-61 84"X15"
BEGIN RIGHT TURN LANE R3-20R 24"X36"

MAPLE BLUFF RD
24+00MB
23+00MB
22+00MB
21+00MB
OLD HWY 18 RD

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH EXISTING
TT4 3' LINE 9' GAP YELLOW EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TP8 EXISTING
TP8 EXISTING
USH 10 WB
USH 10 EB
PT
PC
97+00EX
98+00EX
99+00EX
+26
100+00EX
101+00EX
102+00EX
103+00EX
104+00EX
+50
R70'
R30'
12'
11'
10'
25'
SIDEWALK CLOSED R9-9 24"X12"
BEGIN LEFT TURN LANE R3-20L 24"X36"
ONLY R3-50R 30"X36"
425' SHIFTING TAPER
TEMPORARY PEDESTRIAN BARRICADE (TYP)
BEGIN LEFT TURN LANE R3-20L 24"X36"
BEGIN RIGHT TURN LANE R3-20R 24"X36"
TT4 3' LINE 9' GAP YELLOW
TEMPORARY MARKING STOP LINE PAINT 18-INCH
RL8WB
TT4 DOUBLE YELLOW
ASPHALTIC SURFACE TEMPORARY
MARKING REMOVAL SPECIAL MARKING WATER BLASTING
TT8
TEMPORARY MARKING ARROW REMOVABLE TAPE
TT4
RL4WB DOUBLE YELLOW
BEGIN RIGHT TURN LANE R3-20R 24"X36"

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4A	SHEET 265	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025041-TCZ.DWG
LAYOUT NAME - 01
PLOT DATE : 3/29/2021 1:24 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########

2

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, WO RK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

1 WO1-6 48"X 24" TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

OLD HWY 18 RD

CANOPY

GUY

SEE OTHER TRAFFIC CONTROL - STAGE 4A SHEETS

RL4WB
DOUBLE YELLOW

TT4
DOUBLE YELLOW

12'
10'

25'

1
72' SHIFTING TAPER

TT4

ONLY
R3-8
36"X30"

WO1-4L

ROAD WORK AHEAD
W20-1A

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TM010 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4A	SHEET 266	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025041-TCZ.DWG
LAYOUT NAME - 02
PLOT DATE : 3/29/2021 1:24 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

▲TEMPORARY DETECTABLE WARNING FIELD

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

1 R11-2 48"X30" ROAD CLOSED TYPE III BARRICADE
2 W01-6 48"X24" TYPE III BARRICADE
3 NORTH | WEST | SOUTH (ALTERNATE) | WEST | EAST | M3-2 24"X12" | 66 | 39 | 10 | 66 | M1-6 24"X24" | FAR LANE | NEAR LANE | NEAR LANE | NEAR LANE | 24"X24"
4 NORTH | SOUTH (ALTERNATE) | WEST | EAST | M3-2 24"X12" | 39 | 10 | 66 | M1-6 24"X24" | MO6-2 21"X21"
5 WEST | M3-4 24"X12" | 66 | M1-6 24"X24" | MO6-1 21"X21"
6 NORTH | SOUTH (ALTERNATE) | WEST | EAST | WEST | M3-4 24"X12" | 39 | 10 | 66 | 66 | M1-6 24"X24" | FAR LANE | FAR LANE | FAR LANE | NEAR LANE | 24"X24"

N

MAPLE BLUFF RD
24+00MB
23+00MB
22+00MB
21+00MB
OLD HWY 18 RD
USH 10 WB
USH 10 EB
PT
PC
R70
97+00EX
98+00EX
99+00EX
+26
100+00EX
101+00EX
102+00EX
103+00EX
104+00EX
+50
11'
12'
10'
25'

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH EXISTING
TT4 3' LINE 9' GAP YELLOW EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TP8 EXISTING
TP8 EXISTING
Maple Bluff Rd D1-61 84"X15"
BEGIN RIGHT TURN LANE R3-20R 24"X36"
TT4
SIDEWALK CLOSED R9-9 24"X12"
BEGIN LEFT TURN LANE R3-20L 24"X36"
ONLY R3-50R 30"X36"
425' SHIFTING TAPER
TEMPORARY PEDESTRIAN BARRICADE (TYP)
BEGIN LEFT TURN LANE R3-20L 24"X36"
BEGIN RIGHT TURN LANE R3-20R 24"X36"
TT4 3' LINE 9' GAP YELLOW EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TT4 DOUBLE YELLOW EXISTING
TT4 EXISTING
COMPLETE WORK IN THIS AREA DURING NIGHTTIME CLOSURE BETWEEN 9 PM AND 5 AM CONCRETE PAVEMENT REPAIR SHES
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TT8 EXISTING
TT8
TEMPORARY MARKING ARROW REMOVABLE TAPE EXISTING
TT4
BEGIN RIGHT TURN LANE R3-20R 24"X36"

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4B	SHEET 267	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025042-TCZ.DWG
LAYOUT NAME - 01
PLOT DATE : 3/29/2021 1:13 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########

2

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, WO RK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

1 WO1-6 48" X 24" TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

OLD HWY 18 RD

CANOPY

SEE OTHER TRAFFIC CONTROL - STAGE 4A SHEETS

TT4
DOUBLE YELLOW
EXISTING

12'

25'

1

72' SHIFTING TAPER

TT4
EXISTING

GUY

ONLY
R3-8
36"X30"

WO1-4L

ROAD WORK AHEAD
W20-1A

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TM010 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4B	SHEET 268	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025042-TCZ.DWG
LAYOUT NAME - 02
PLOT DATE : 3/29/2021 1:13 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

▲TEMPORARY DETECTABLE WARNING FIELD

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

1 R11-2 48"X 30" ROAD CLOSED TYPE III BARRICADE

2 W01-6 48"X 24" TYPE III BARRICADE

3 NORTH | WEST | SOUTH (ALTERNATE 39) | WEST 10 | EAST 66 | WEST 66 | FAR LANE | NEAR LANE | NEAR LANE | NEAR LANE — M3-2 24"X12", M1-6 24"X24", 24"X24"

4 NORTH | SOUTH (ALTERNATE 39) | WEST 10 | EAST 66 — M3-2 24"X12", M1-6 24"X24", MO6-2 21"X21"

5 WEST 66 — M3-4 24"X12", M1-6 24"X24", MO6-1 21"X21"

6 NORTH | SOUTH (ALTERNATE 39) | WEST 10 | EAST 66 | WEST 66 | FAR LANE | FAR LANE | FAR LANE | NEAR LANE — M3-4 24"X12", M1-6 24"X24", 24"X24"

N

MAPLE BLUFF RD
24+00MB
23+00MB
22+00MB
21+00MB
OLD HWY 18 RD
USH 10 WB
USH 10 EB
97+00EX
98+00EX
99+00EX
+26
100+00EX
101+00EX
102+00EX
103+00EX
104+00EX
PT
PC
25'
12'
11'
10'

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH EXISTING
TT4 3' LINE 9' GAP YELLOW EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TP8 EXISTING
TP8 EXISTING
Maple Bluff Rd D1-61 84"X15"
BEGIN RIGHT TURN LANE R3-20R 24"X36"
SIDEWALK CLOSED R9-9 24"X12"
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH EXISTING
BEGIN LEFT TURN LANE R3-20L 24"X36"
ONLY R3-50R 30"X36"
425' SHIFTING TAPER
TT8
TEMPORARY MARKING ARROW REMOVABLE TAPE
BEGIN LEFT TURN LANE R3-20L 24"X36"
BEGIN RIGHT TURN LANE R3-20R 24"X36"
TEMPORARY PEDESTRIAN BARRICADE (TYP)
TT4 3' LINE 9' GAP YELLOW
TT4 YELLOW
TT4 YELLOW
TT4 DOUBLE YELLOW
NORTH | SOUTH (ALTERNATE 39) | WEST 10 | EAST 66 | WEST 66 | FAR LANE | FAR LANE | FAR LANE | NEAR LANE — M3-4 24"X12", M1-6 24"X24", 24"X24"

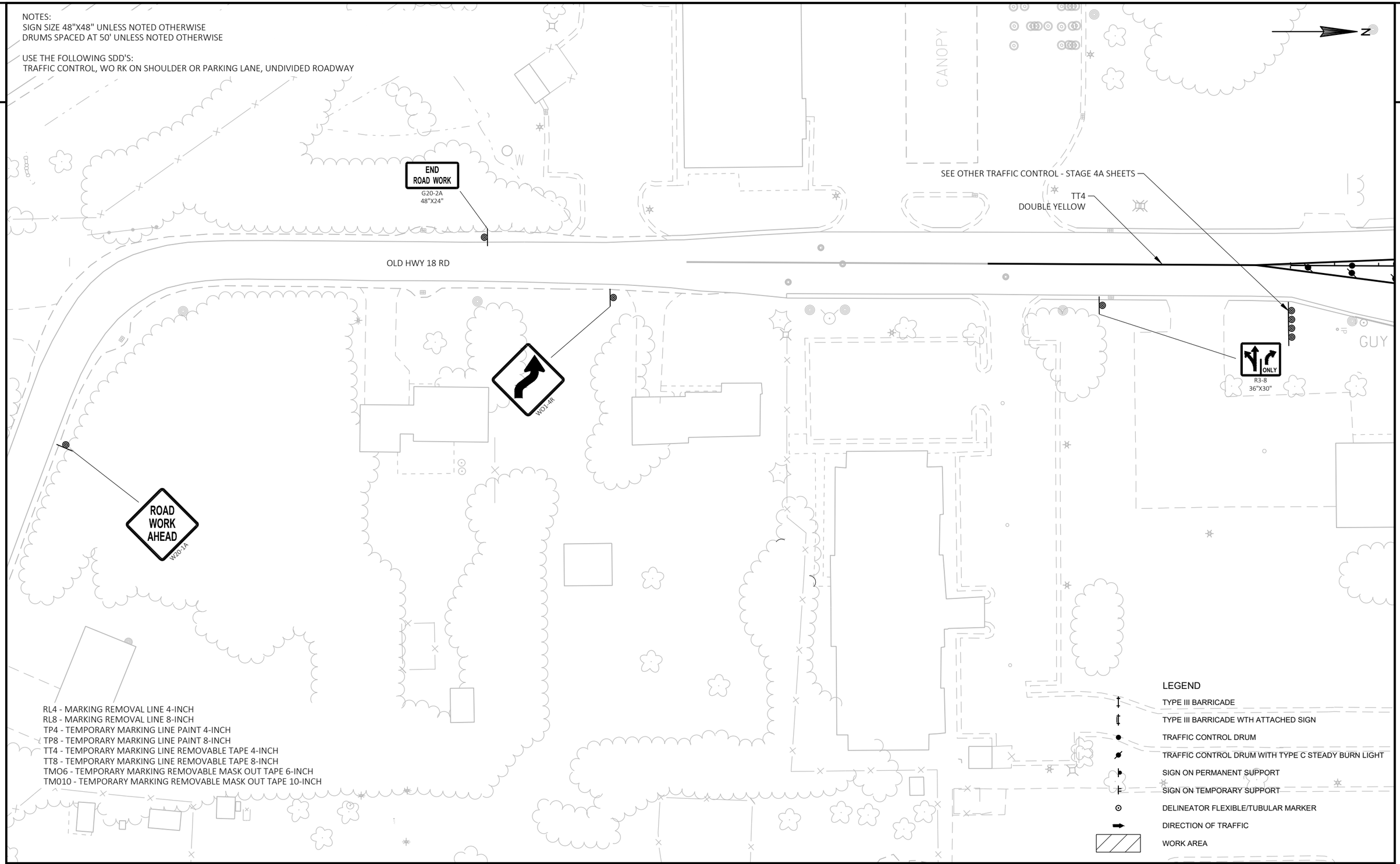
LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4C	SHEET 269	E

2

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, WO RK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY



RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TM010 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4C	SHEET 270	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025043-TCZ.DWG
LAYOUT NAME - 02
PLOT DATE : 3/29/2021 1:09 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

▲ TEMPORARY DETECTABLE WARNING FIELD

1 R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE

2 W01-6 48" X 24" TYPE III BARRICADE

3
NORTH / SOUTH / WEST / EAST / WEST — INTERSTATE 39 / 10 / 66 / 66 — FAR LANE / NEAR LANE / NEAR LANE / NEAR LANE
M3-2 24"X12"
M1-6 24"X24"
24"X24"

4
NORTH / SOUTH / WEST / EAST — INTERSTATE 39 / 10 / 66
RIGHT LANE
M3-2 36"X18"
M1-6 36"X36"
60"X12"

5
WEST / 66 / USE LEFT LANE
M3-4 36"X18"
M1-6 36"X36"
MO4-20L 36"X36"

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

N

MAPLE BLUFF RD
24+00MB
23+00MB
22+00MB
21+00MB
OLD HWY 18 RD
USH 10 WB
USH 10 EB
99+00EX
100+00EX
101+00EX
102+00EX
103+00EX
104+00EX
105+00EX
106+00EX
+25
+26
+94
+82
+19
R50'
R75'
R30'
12'
11'
10'
25'
15'

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH EXISTING
TT4 3' LINE 9' GAP EXISTING
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TP8 EXISTING
TP8 EXISTING
TP4 EXISTING
TP4 YELLOW EXISTING
TT4
TP4 EXISTING
TP4 YELLOW EXISTING
TT4
TEMPORARY PEDESTRIAN BARRICADE
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH EXISTING
TT4 CROSSWALK EXISTING
TT4 3' LINE 9' GAP YELLOW
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TT8
TEMPORARY MARKING ARROW REMOVABLE TAPE
TT4 DOUBLE YELLOW

Maple Bluff Rd — D1-61 84"X15"
BEGIN RIGHT TURN LANE — R3-20R 24"X36"
ONLY — R3-50R 30"X36"
321' SHIFTING TAPER
425' SHIFTING TAPER
SIDEWALK CLOSED — R9-9 24"X12"
CENTER LINE COVER
BEGIN LEFT TURN LANE — R3-20L 24"X36"
ONLY — R3-50R 30"X36"
ONLY — R3-50R 30"X36"
R3-2 36"X36"
SPEED LIMIT 40

NORTH / SOUTH / WEST / EAST / WEST — INTERSTATE 39 / 10 / 66 / 66 — FAR LANE / FAR LANE / FAR LANE / NEAR LANE
M3-4 24"X12"
M1-6 24"X24"
24"X24"

BEGIN RIGHT TURN LANE — R3-20R 24"X36"

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4D	SHEET 271	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025044-TCZ.DWG
LAYOUT NAME - 01
PLOT DATE : 3/30/2021 7:24 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD

STAGE WORK TO KEEP DRIVEWAY OPEN AT ALL TIMES

REMOVE

REMOVE

WO1-4BR

30 MPH

WO13-1
36"X36"

ONLY
R3-50R
30"X36"

SPEED LIMIT 40

REMOVE

ONLY
R3-50R
30"X36"

JCT 39 JCT 51 JCT 66

297' BUFFER

COVER

15'

12'

12'

+78

+07

+07

USH 10 WB

RL4WB

TT4

TT4 YELLOW

107+00EX

108+00EX

109+00EX

110+00EX

111+00EX

112+00EX

113+00EX

114+00EX

25'

25'

USH 10 EB

GUY

GUY

GUY POLE

ONLY
R3-50R
30"X36"

MARKING REMOVAL
SPECIAL MARKING

ONLY
R3-50R
30"X36"

ONLY
R3-50R
30"X36"

R3-2
36"X36"

R3-2
36"X36"

COVER

MARKING REMOVAL
SPECIAL MARKING

ONLY
R3-50R
30"X36"

1

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

2

WO1-6
48" X 24"
TYPE III BARRICADE

160' SHIFTING TAPER

TT4

25'

RL4WB

12'

12'

8'

25'

115+00EX

116+00EX

117+00EX

118+00EX

119+00EX

120+00EX

121+00EX

USH 10 WB

USH 10 EB

TT4
YELLOW

ONLY
R3-50R
30"X36"

WO1-4BL

30 MPH

WO13-1
36"X36"

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

LEGEND

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

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4D	SHEET 272	E

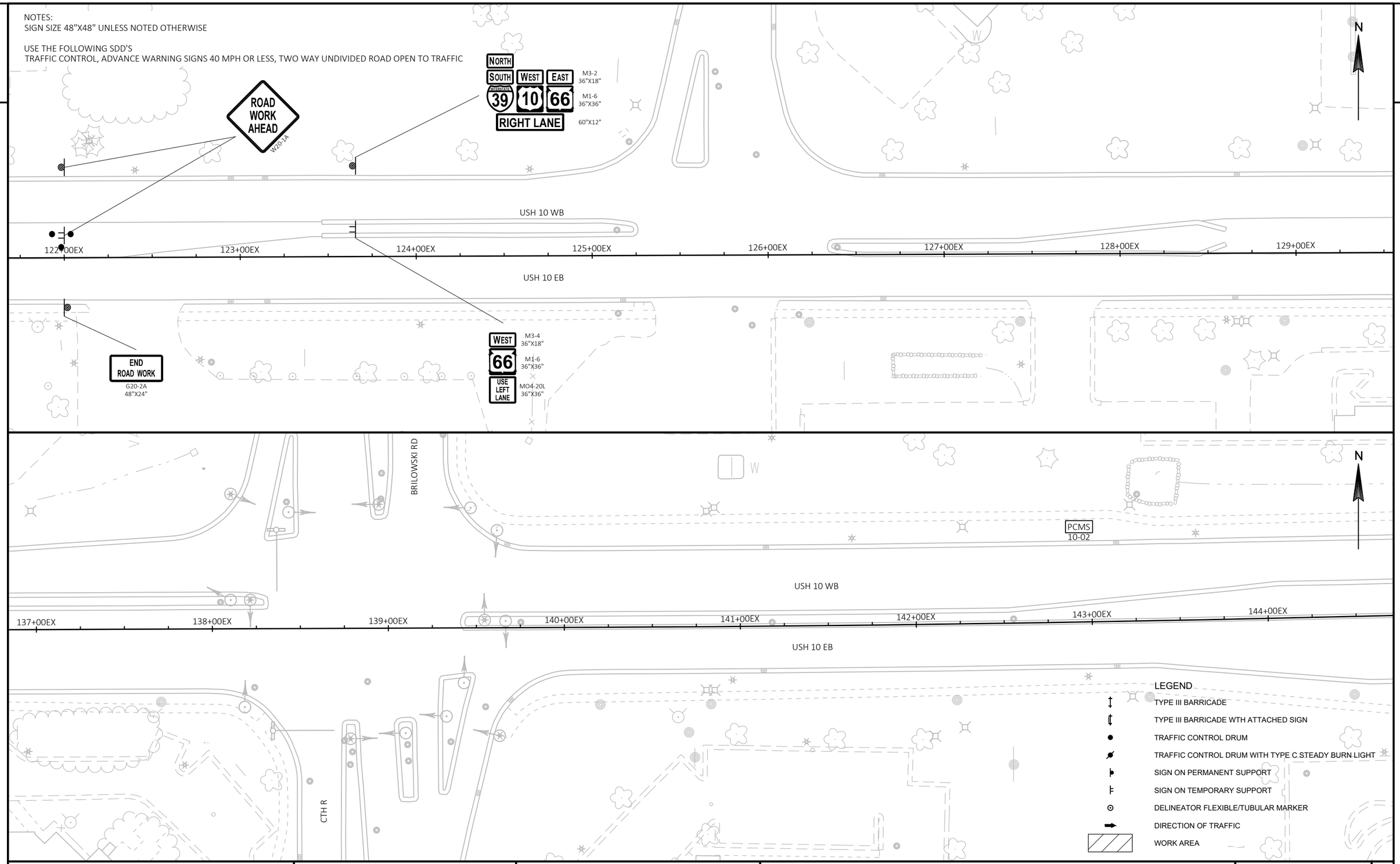
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025044-TCZ.DWG
LAYOUT NAME - 02

PLOT DATE : 3/30/2021 7:24 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC



PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4D	SHEET 273	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, WO RK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

2

2

N

CANOPY

END
ROAD WORK
G20-2A
48"X24"

OLD HWY 18 RD

TT4
DOUBLE YELLOW

SEE OTHER TRAFFIC CONTROL - STAGE 4A SHEETS

12

GUY

ONLY
R3-8
36"X30"

ROAD
WORK
AHEAD
W20-1A

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TM010 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

LEGEND

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

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4D	SHEET 274	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025044-TCZ.DWG
LAYOUT NAME - 04

PLOT DATE : 3/30/2021 7:25 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : ##########

2

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE
TEMPORARY MARKING TAPE SHALL BE USED ON ALL NEW PAVEMENT

▲ TEMPORARY DETECTABLE WARNING FIELD

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

1 R11-2L 48" X 30" LANE CLOSED TYPE III BARRICADE
2 WO1-6 48" X 24" TYPE III BARRICADE
3 R11-2R 48"X30" BRIDGE OUT TYPE III BARRICADE
4 WO1-6 48" X 24" TYPE III BARRICADE

N

2

WO1-4L

R3-2 24"X24"

360' SHIFTING TAPER

TP8 EXISTING
TP8 3' LINE 9' GAP EXISTING
TT4 YELLOW EXISTING
TT4 EXISTING
TT4 EXISTING
TT8 EXISTING
TT4 DOUBLE YELLOW EXISTING

STH 66 WB
STH 66 EB

84+00EX 85+00EX 86+00EX 87+00EX 88+00EX 89+00EX 90+00EX 91+00E

+20 +38 +50 +78

12' 12' 11' 11' 11' 5' 15' 8' 6' 8' 25' 25' 15' 15' 15'

TEMPORARY PEDESTRIAN BARRIER

TP8 EXISTING
160' SHIFTING TAPER

TT4 CROSSWALK
TEMPORARY PEDESTRIAN BARRICADE

WO5-52R 12"X36"

SOUTH SOUTH 39 51 COVER

WO4-3R 48"X48"

WO11-2 48"X48"

WO16-7R 48"X24"

TT4 YELLOW EXISTING

IH 39 SB ON RAMP
IH 39 SB OFF RAMP

SEE OTHER STAGE 4E TRAFFIC CONTROL SHEETS FOR RAMP DETAILS

GUY

LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4E	SHEET 275	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

1 R11-2B 48"X30" BRIDGE OUT TYPE III BARRICADE

2 R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE

5 WO1-6 48" X 24" TYPE III BARRICADE

3 NORTH / SOUTH / WEST / EAST / INTERSTATE 39 / 10 / 66 — M3-2 24"X12", M1-6 24"X24", MO6-2 21"X21"

4 WEST / 66 — M3-4 24"X12", M1-6 24"X24", MO6-1 21"X21"

TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING

R6-1R 36"X12" ONE WAY, R3-2 24"X24"

STOP R1-1 36"X36"

WEST / 66 — M3-4 24"X12", M1-6 24"X24", M6-1 21"X21"

R3-1 24"X24"

TT4 3' LINE 9' GAP EXISTING

TT4 DOUBLE YELLOW EXISTING

TT4 EXISTING

TP8 EXISTING

TEMPORARY MARKING STOP LINE TAPE 18-INCH EXISTING

ASPHALTIC SURFACE TEMPORARY 5 FEET WIDE EXISTING

IH 39 NB OFF RAMP

IH 39 NB ON RAMP

IH 39 NB OFF RAMP (CLOSED)

USH 10 WB

USH 10 EB

285+00

284+00ZA

308+00ZB

309+00ZB

310+00ZB

283+00ZA

+00 +25 +50 +60 +75 +76

92+00EX 93+00EX 94+00EX 95+00EX 96+00EX 97+00EX 98+00EX 99+00EX

TEMPORARY PEDESTRIAN BARRICADE

ONE WAY R6-2R 24"X30"

250' SHIFTING TAPER

ASPHALTIC SURFACE TEMPORARY

30 MPH WO13-1 36"X36" WO1-4BR

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

GUY

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4E	SHEET 276	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

1 R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE

2 W01-6 48" X 24" TYPE III BARRICADE

3
NORTH				
WEST	SOUTH	WEST	EAST	M3-2 24"X12"
66	39 INTERSTATE	10	66	M1-6 24"X24"
FAR LANE	NEAR LANE	NEAR LANE	NEAR LANE	24"X24"

4
NORTH			
SOUTH	WEST	EAST	M3-2 36"X18"
39 INTERSTATE	10	66	M1-6 36"X36"
RIGHT LANE			60"X12"

5
WEST	M3-4 36"X18"
66	M1-6 36"X36"
USE LEFT LANE	MO4-20L 36"X36"

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

N

24+00MB
MAPLE BLUFF RD
23+00MB
22+00MB
21+00MB
OLD HWY 18 RD
99+00EX
100+00EX
101+00EX
102+00EX
103+00EX
104+00EX
105+00EX
106+00EX
USH 10 WB
USH 10 EB
R65'
R50'
R75'
R50'
12'
11'
10'
11'
11'
+25
+94
+82
+19
25'
15'
15'
12'
12'

TEMPORARY MARKING
STOP LINE REMOVABLE TAPE 18-INCH

TT4
3' LINE 9' GAP
EXISTING

TT4
3' LINE 9' GAP -

TEMPORARY MARKING
STOP LINE PAINT 18-INCH
EXISTING

TP8
EXISTING

TP8
EXISTING

Maple Bluff Rd D1-61 84"X15"

BEGIN RIGHT TURN LANE R3-20R 24"X36"

160' SHIFTING TAPER

TP4 EXISTING

TP4
YELLOW
EXISTING

TP4

TT4
CROSSWALK

ONLY R3-50R 30"X36"

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

425' SHIFTING TAPER

ONLY R3-50R 30"X36"

TP4 EXISTING

TP4
YELLOW
EXISTING

SPEED LIMIT 40

TT4
3' LINE 9' GAP
YELLOW

TEMPORARY MARKING
STOP LINE REMOVABLE
TAPE 18-INCH EXISTING

TT8

TEMPORARY MARKING
STOP LINE REMOVABLE
TAPE 18-INCH
EXISTING

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH

TEMPORARY MARKING ARROW REMOVABLE TAPE

NORTH				
SOUTH	WEST	EAST	WEST	M3-4 24"X12"
39 INTERSTATE	10	66	66	M1-6 24"X24"
FAR LANE	FAR LANE	FAR LANE	NEAR LANE	24"X24"

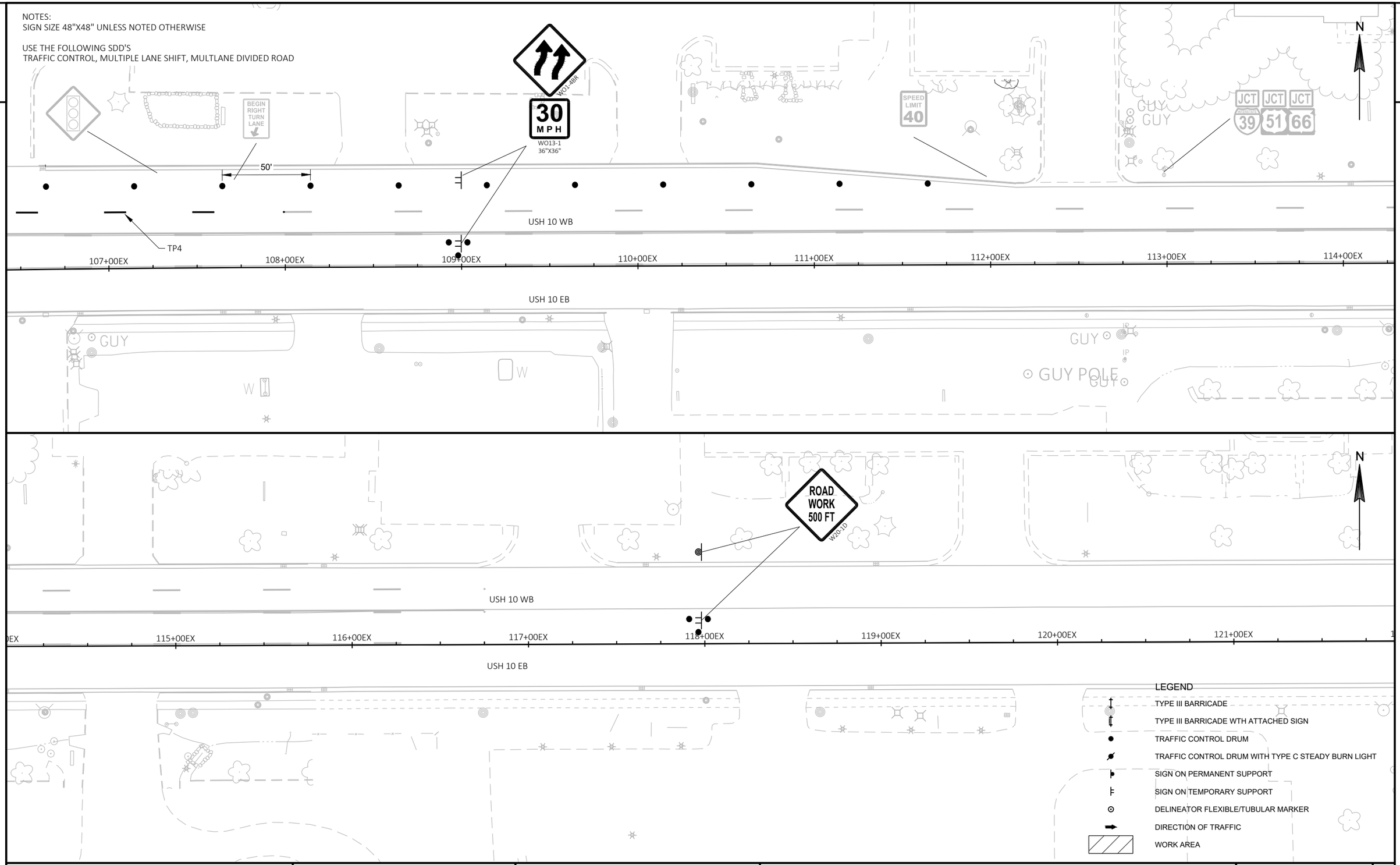
LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4E	SHEET 277	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025045-TCZ.DWG
LAYOUT NAME - 03
PLOT DATE : 3/30/2021 8:51 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD

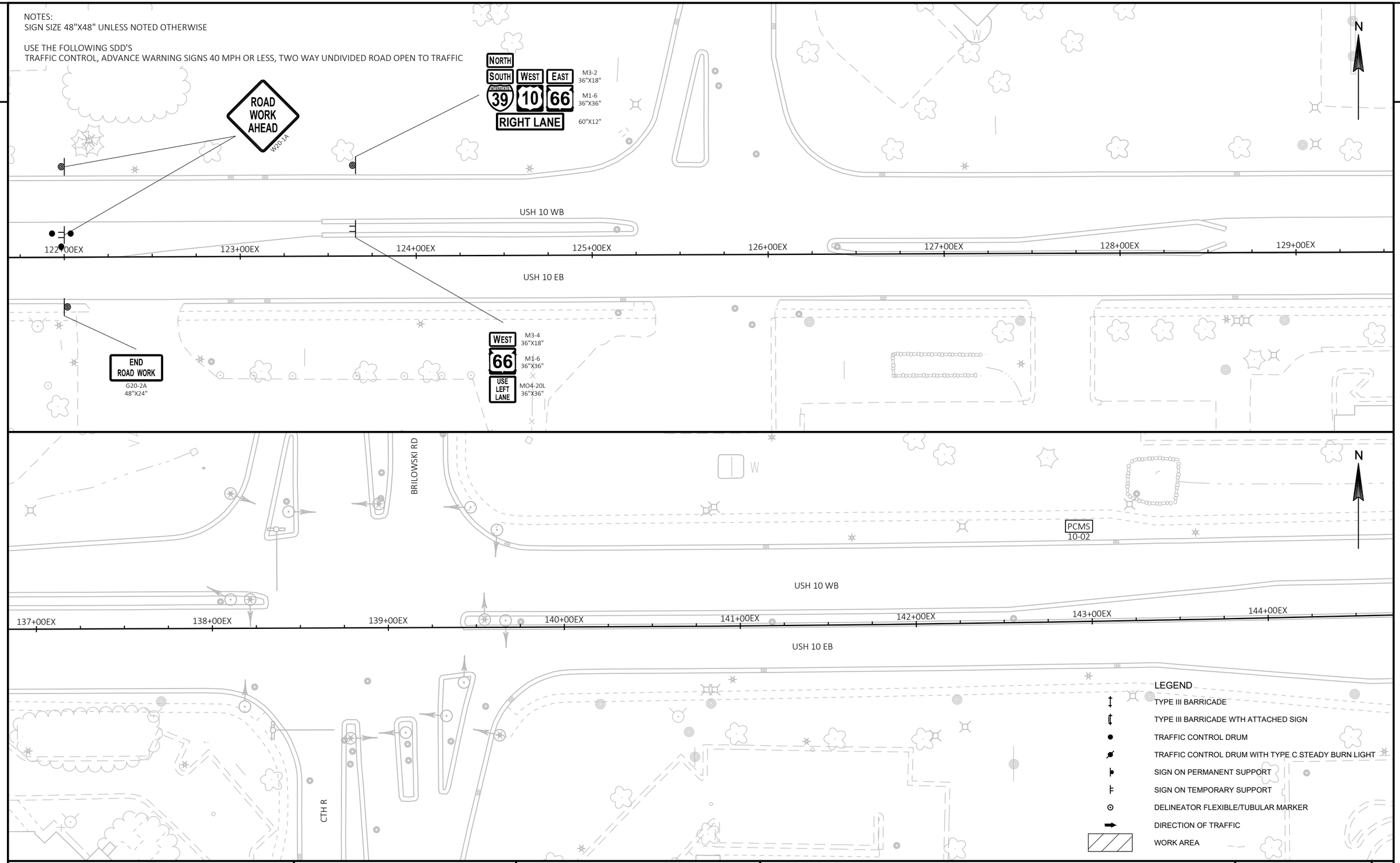


PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4E	SHEET 278	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025045-TCZ.DWG
LAYOUT NAME - 04
PLOT DATE : 3/30/2021 8:51 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC



PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4E	SHEET 279	E

2

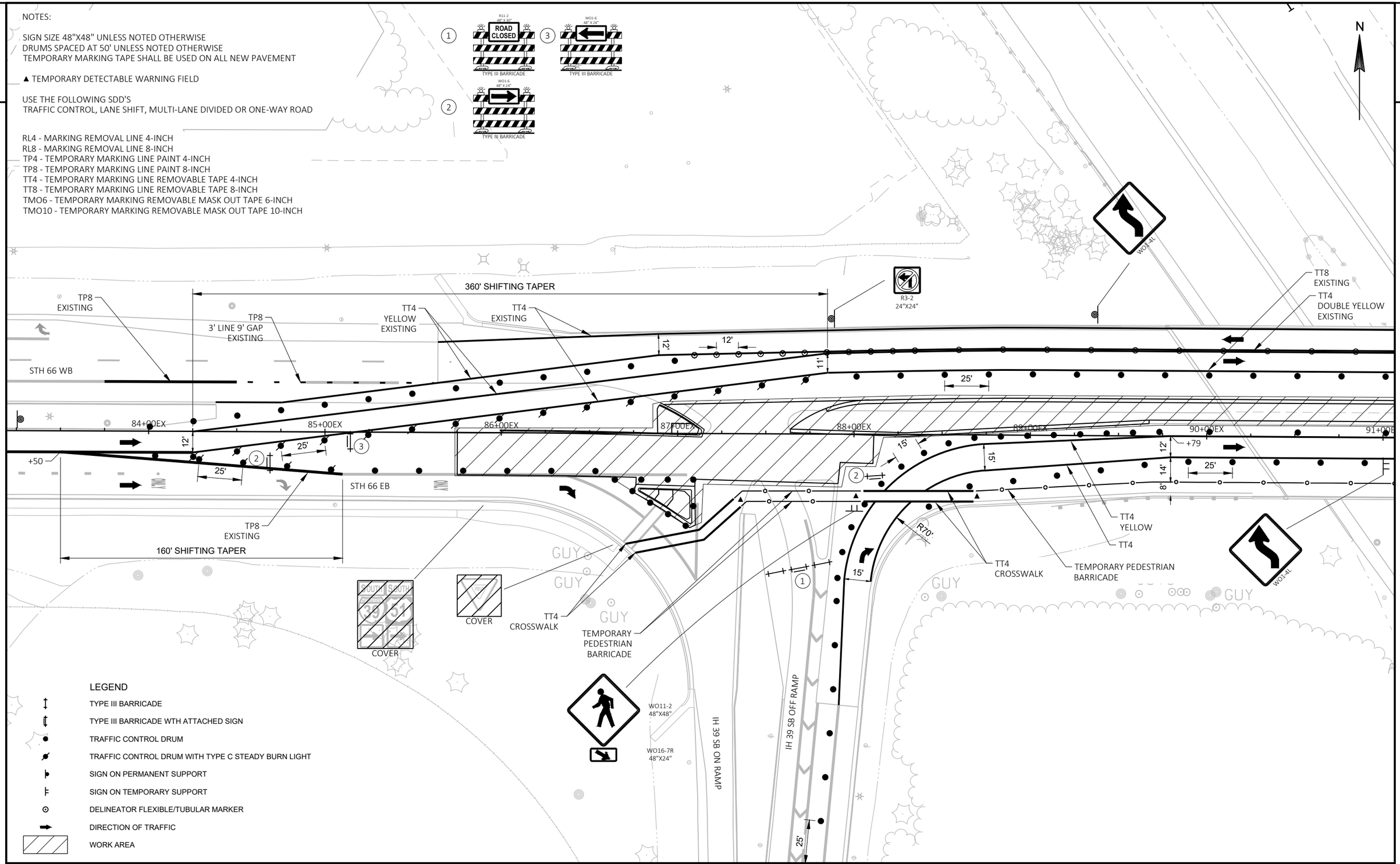
NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE
TEMPORARY MARKING TAPE SHALL BE USED ON ALL NEW PAVEMENT

▲ TEMPORARY DETECTABLE WARNING FIELD

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH



LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4F	SHEET 280	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025046-TCZ.DWG
LAYOUT NAME - 01
PLOT DATE : 3/30/2021 9:11 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

1 — W01-6 48"X24" — TYPE III BARRICADE

2 — R11-2 48"X30" — ROAD CLOSED — TYPE III BARRICADE

5 — W01-6 48"X24" — TYPE III BARRICADE

3 — NORTH / SOUTH / WEST / EAST — ALT STATE 39 / 10 / 66 — M3-2 24"X12" — M1-6 24"X24" — MO6-2 21"X21"

4 — WEST 66 — M3-4 24"X12" — M1-6 24"X24" — MO6-1 21"X21"

TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING

R6-1R 36"X12" — ONE WAY — R3-2 24"X24"

R6-2R 24"X30" — ONE WAY

STOP — R1-1 36"X36"

WEST 66 — M3-4 24"X12" — M1-6 24"X24" — M6-1 21"X21"

R3-1 24"X24"

IH 39 NB OFF RAMP

IH 39 NB ON RAMP

308+00ZB

309+00ZB

284+00ZA

283+00ZA

285+00

TT4 DOUBLE YELLOW EXISTING

TT4 3' LINE 9' GAP EXISTING

TT4 EXISTING

TT8

TP8 EXISTING

TEMPORARY MARKING STOP LINE TAPE 18-INCH EXISTING

ASPHALTIC SURFACE TEMPORARY 5 FEET WIDE EXISTING

USH 10 WB

USH 10 EB

+00 +25 +50 +60 +70 +75 +76 +14

92+00EX 93+00EX 94+00EX 95+00EX 96+00EX 97+00EX 98+00EX 99+00EX

25' 12' 11' 13' 18' 10'

250' SHIFTING TAPER

250' SHIFTING TAPER

189'

TEMPORARY PEDESTRIAN BARRICADE

TT4 YELLOW

TT4

TT4

GUY

GUY'S

WO4-3R 48"X48"

WO4-3L 48"X48"

WO1 48"

30 MPH — WO13-1 36"X36"

IH 39 NB OFF RAMP (CLOSED)

BEGIN LEFT TURN LANE — R3-20L 24"X36"

BEGIN RIGHT TURN LANE — R3-20R 24"X36"

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4F	SHEET 281	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

1 R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE

2 W01-6 48" X 24" TYPE III BARRICADE

3
NORTH				
WEST	SOUTH	WEST	EAST	M3-2 24"X12"
66	39 INTERSTATE	10	66	M1-6 24"X24"
FAR LANE	NEAR LANE	NEAR LANE	NEAR LANE	24"X24"

4
NORTH			
SOUTH	WEST	EAST	M3-2 36"X18"
39 INTERSTATE	10	66	M1-6 36"X36"
RIGHT LANE			60"X12"

5
WEST	M3-4 36"X18"
66	M1-6 36"X36"
USE LEFT LANE	MO4-20L 36"X36"

RL4 - MARKING REMOVAL LINE 4-INCH
RL4WB - MARKING REMOVAL LINE 4-INCH WATER BLASTING
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

N

24+00MB
MAPLE BLUFF RD
23+00MB
22+00MB
21+00MB
OLD HWY 18 RD

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH EXISTING
TT4 3' LINE 9' GAP EXISTING
TT4 3' LINE 9' GAP
TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING
TP8 EXISTING
TP8 EXISTING
Maple Bluff Rd
BEGIN RIGHT TURN LANE R3-20R 24"X36"
160' SHIFTING TAPER
TP4 EXISTING
TP4 YELLOW EXISTING
TP4 EXISTING
USH 10 WB
USH 10 EB
R65'
R50'
R75'
R50'
12'
11'
10'
11'
11'
+94
+25
+82
+19
25'
15'
15'
99+00EX
100+00EX
101+00EX
102+00EX
103+00EX
104+00EX
105+00EX
106+00EX
TT4
TT8
189'
TT4 CROSSWALK EXISTING
TT4 3' LINE 9' GAP EXISTING
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH EXISTING
TT8 EXISTING
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH EXISTING
TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH EXISTING
TEMPORARY MARKING ARROW REMOVABLE TAPE EXISTING
ONLY R3-50R 30"X36"
BEGIN LEFT TURN LANE R3-20L 24"X36"
ONLY R3-50R 30"X36"
425' SHIFTING TAPER
TP4 EXISTING
TP4 YELLOW EXISTING
SPEED LIMIT 40
GUY

NORTH					
SOUTH	WEST	EAST	WEST	M3-4 24"X12"
39 INTERSTATE	10	66	66	M1-6 24"X24"
FAR LANE	FAR LANE	FAR LANE	NEAR LANE	24"X24"

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4F	SHEET 282	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025046-TCZ.DWG
LAYOUT NAME - 03
PLOT DATE : 3/30/2021 9:11 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD

(1) SEE SPECIAL PROVISIONS FOR MORE INFORMATION

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

(3) WO1-6 48" X 24" TYPE III BARRICADE

TT8

IH 39 SB ON RAMP

IH 39 SB OFF RAMP

25'

15'

R70'

COVER

WEST EAST 66 10

Seven Points Appleton Waupaca

DO NOT PASS ONLY ONLY

WO1-1R

20 MPH

WO13-1
36"X36"

(1) FOOD

(1) GAS ATTRACTION

WO1-4R

(1) FOOD

(1) LODGING

COVER

WO11-2
48"X48"

AHEAD

WO16-9P
48"X24"

GUY

GUYS

LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4F	SHEET 283	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025046-TCZ.DWG
LAYOUT NAME - 04

PLOT DATE : 3/30/2021 9:11 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

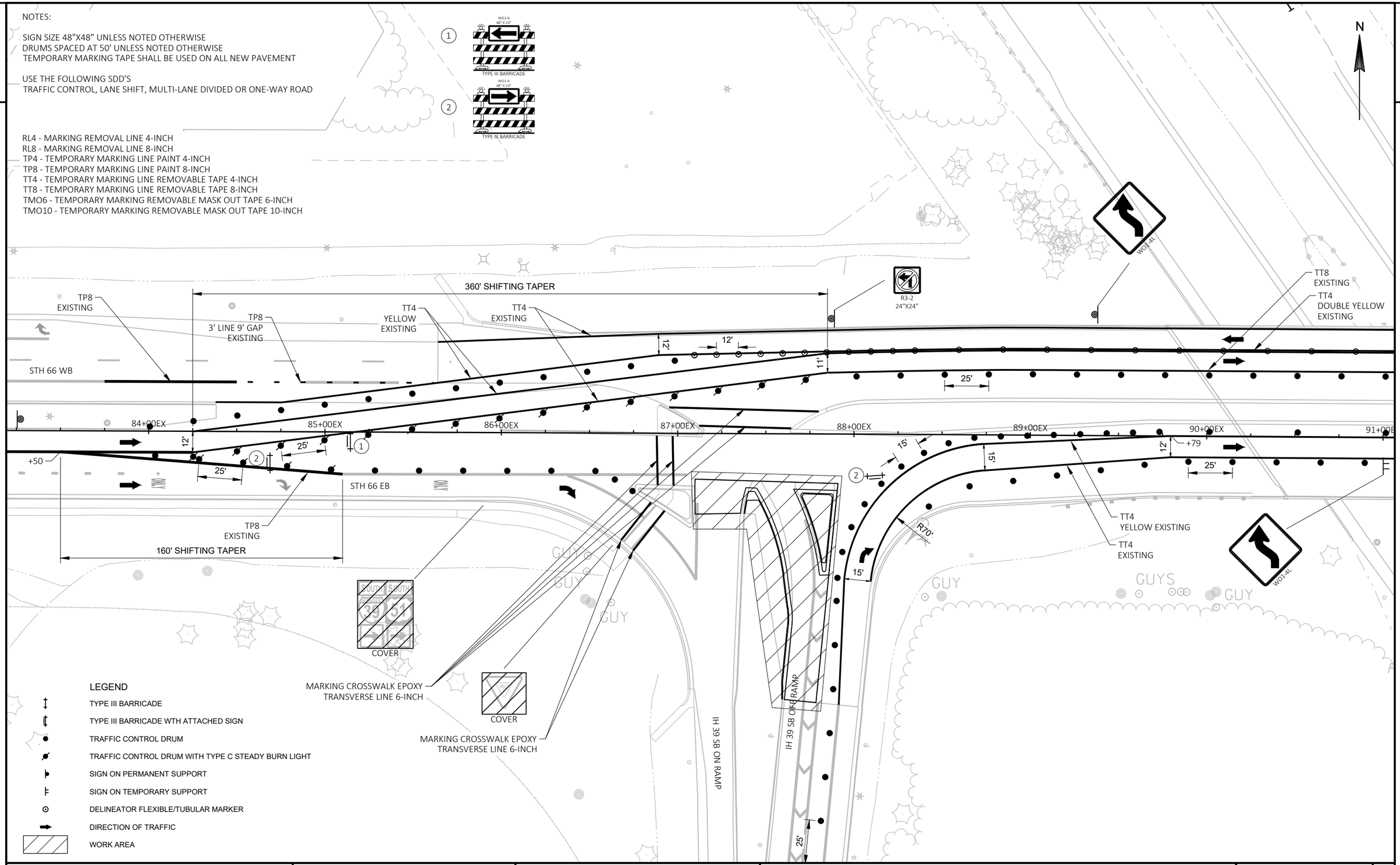
2

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE
TEMPORARY MARKING TAPE SHALL BE USED ON ALL NEW PAVEMENT

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH



LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4G	SHEET 284	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

1 WO1-6 48"X24" TYPE III BARRICADE

2 R11-2 48"X30" ROAD CLOSED TYPE III BARRICADE

5 WO1-6 48"X24" TYPE III BARRICADE

3 NORTH / SOUTH / WEST / EAST / ALT STATE 39 / 10 / 66 — M3-2 24"X12", M1-6 24"X24", MO6-2 21"X21"

4 WEST / 66 — M3-4 24"X12", M1-6 24"X24", MO6-1 21"X21"

TEMPORARY MARKING STOP LINE PAINT 18-INCH EXISTING

R6-1R 36"X12" ONE WAY, R3-2 24"X24"

ONE WAY R6-2R 24"X30"

STOP R1-1 36"X36"

WEST 66 — M3-4 24"X12", M1-6 24"X24", M6-1 21"X21"

R3-1 24"X24"

IH 39 NB OFF RAMP

IH 39 NB ON RAMP

TT4 3' LINE 9' GAP EXISTING

TT4 DOUBLE YELLOW EXISTING

TT4 EXISTING

TT8 EXISTING

TP8 EXISTING

TEMPORARY MARKING STOP LINE TAPE 18-INCH EXISTING

ASPHALTIC SURFACE TEMPORARY 5 FEET WIDE EXISTING

USH 10 WB

USH 10 EB

285+00

284+00ZA

308+00ZB

309+00ZB

310+00ZB

283+00ZA

92+00EX 93+00EX 94+00EX 95+00EX 96+00EX 97+00EX 98+00EX 99+00EX

+00 +25 +50 +70 +75 +00 +76 +14 +60

11' 12' 10' 18' 25'

250' SHIFTING TAPER

189'

TT4 YELLOW EXISTING

TT4 EXISTING

WO4-3R 48"X48"

WO4-3L 48"X48"

TEMPORARY PEDESTRIAN BARRICADE

WO11-2 48"X48"

WO16-7L 48"X24"

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

WO1-4R

30 MPH WO13-1 36"X36"

IH 39 NB OFF RAMP (CLOSED)

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

BEGIN RIGHT TURN LANE R3-20R 24"X36"

TT8 EXISTING

TT4 EXISTING

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 4G	SHEET 285	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025047-TCZ.DWG
LAYOUT NAME - 02

PLOT DATE : 3/30/2021 9:09 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

GREEN AVE

RIDGE RD

STH 66 WB

47+00EB 48+00EB 49+00EB 50+00EB 51+00EB 52+00EB 53+00EB 54+00EB

STH 66 EB

SUNRISE AVE

ROAD WORK AHEAD W20-1A

EAST M3-2 36"X18"
10 M1-4 36"X36"
MO6-1 36"X36"

STH 66 WB

54+00EB 55+00EB 56+00EB 57+00EB 58+00EB 59+00EB 60+00EB 61+00EB

STH 66 EB

BIKE PATH

BIKE

LEFT LANE CLOSED AHEAD W20-5SA

NORTH DETOUR M4-8 36"X18"
SOUTH WEST EAST M3-2 36"X18"
INTERSTATE 39 10 66 M1-6 36"X36"
MO5-2R 36"X36"

LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5	SHEET 286	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025050-TCZ.DWG
LAYOUT NAME - 01

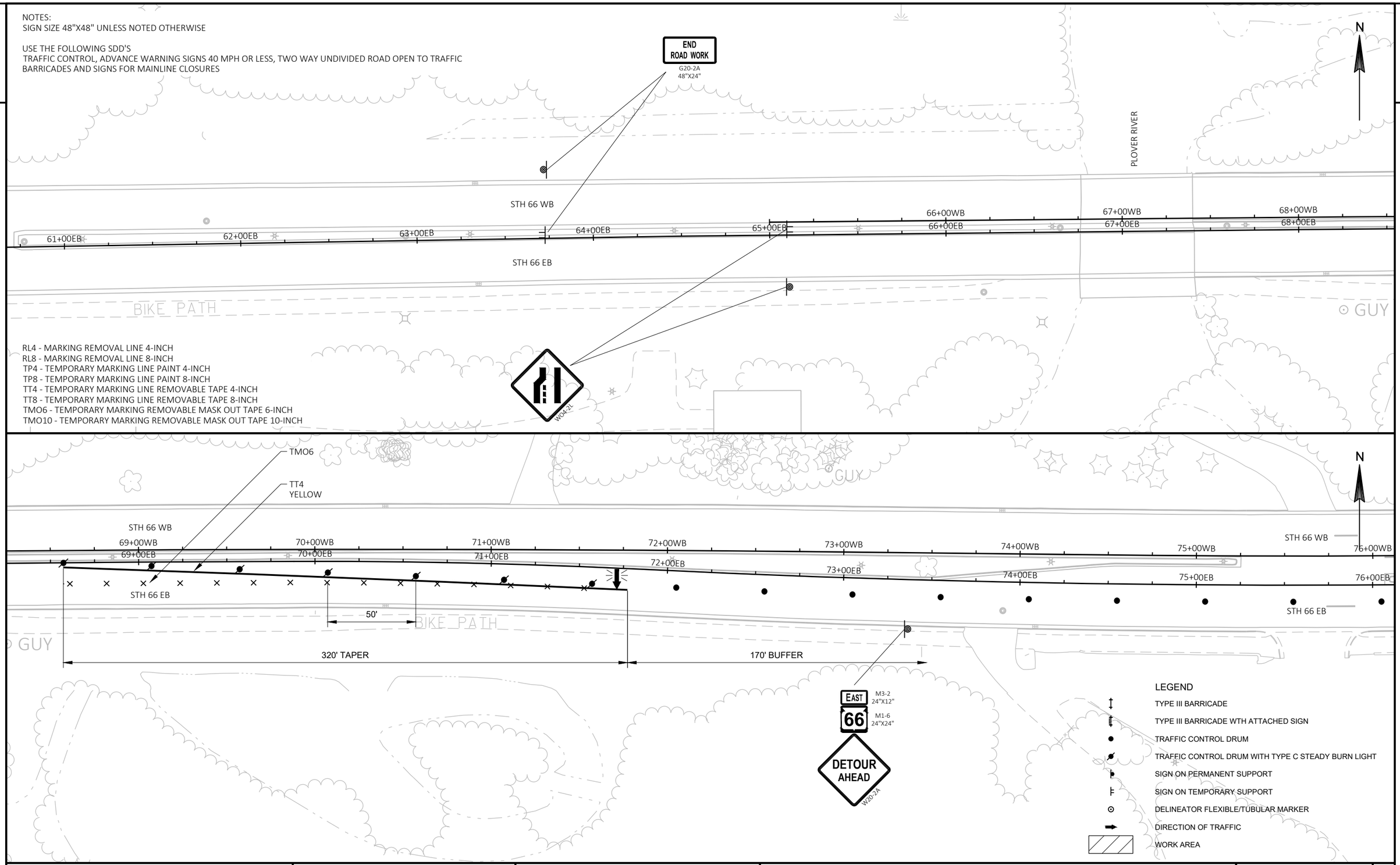
PLOT DATE : 3/30/2021 8:37 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5	SHEET 287	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025050-TCZ.DWG
LAYOUT NAME - 02
PLOT DATE : 3/30/2021 8:37 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

1 W01-6 48" X 24" TYPE III BARRICADE

STAGE WORK AT THIS LOCATION
TO ALLOW CONTINUOUS PEDESTRIAN ACCESS

SPEED LIMIT 40
NO PARKING ANY TIME

EAST 10 M3-2 24"X12" M1-4 24"X24" MO6-1 21"X21"

TT8
TT4 YELLOW

STH 66 WB
77+00WB 78+00WB 79+00WB 80+00WB 81+00WB 82+00WB 83+00WB 84+00WB
LEFT TURN LANE (HILLTOP PUB)
77+00EB 78+00EB 79+00EB 80+00EB 81+00EB 82+00EB 83+00EB 84+00EB
25' 25'
12' 9' 15'
STH 66 EB

BIKE PATH
GUY
COUNTRY CLUB DR
63+00CC
62+00CC
61+00CC

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

GUY POLE
GUY POLE

NORTH SOUTH 39 ALTERNATE EAST FAR LANE | WEST 10 NEAR LANE | DETOUR EAST 66 NEAR LANE
M4-8 24"X12" M3-2 24"X12" M1-6 24"X24"

NORTH SOUTH 39 ALTERNATE WEST 10 | DETOUR EAST 66
M4-8 24"X12" M3-2 24"X12" M1-6 24"X24" MO6-2 21"X21"

SOUTH SOUTH 39 ALTERNATE 51
COVER

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-71	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5	SHEET 288	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025050-TCZ.DWG
LAYOUT NAME - 03
PLOT DATE : 3/30/2021 8:38 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

2

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

2 W21-6 48" X 24" TYPE III BARRICADE

M3-3 24"X12"
M1-1 24"X24"
M6-1 21"X21"
SOUTH ALTERNATE 39

BEGIN RIGHT TURN LANE
R3-20R 24"X36"

TT4 YELLOW

STH 66 WB

84+00WB 25' 85+00WB 86+00WB 12' 2 87+00WB

MARKING STOP LINE EPOXY 18-INCH

TT4 25' TT8 TT4 YELLOW

88+00WB 89+00WB 12' +12 90+00WB 12' +62 91+00W

84+00EB 85+00EB 86+00EB 87+00EB 88+00EB 89+00EB 1 90+00EB 91+00E

STH 66 EB

11' 11'

TT4 TT4 YELLOW

TT4 3' LINE 9' GAP

MARKING STOP LINE EPOXY 18-INCH

SOUTH SOUTH 39 51 COVER

GUY GUY GUY GUY GUYS GUY

IH 39 SB ON RAMP

ONLY ONLY ONLY

IH 39 SB OFF RAMP

N

LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5	SHEET 289	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

1 R11-2L 48" X 30" LANE CLOSED — TYPE III BARRICADE
2 W01-6 48" X 24" — TYPE III BARRICADE
3 R11-2 48" X 30" ROAD CLOSED — TYPE III BARRICADE

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

TT4

TT4 YELLOW

M3-3 24"X12"
M1-1 24"X24"
MO5-1L 21"X21"
SOUTH INTERSTATE 39

ONE WAY R6-2R 24"X30"

R6-1R 36"X12" ONE WAY
R3-2 24"X24"

IH 39 NB OFF RAMP

308+00ZB
309+00ZB
310+00ZB

STOP R1-1 36"X36"

WEST 66 M3-4 24"X12" M1-6 24"X24" M6-1 21"X21"

284+00ZA
283+00ZA

R3-1 24"X24"

SOUTH INTERSTATE 39 WEST 66 M3-4 24"X12" M1-6 24"X24" M6-1 21"X21"

NORTH INTERSTATE 39 WEST 10 EAST 66 M3-2 24"X12" M1-6 24"X24" MO6-2 21"X21"

TP8 EXISTING

ASPHALTIC SURFACE TEMPORARY EXISTING

USH 10 WB
USH 10 EB

92+00WB
93+00WB
94+00WB
95+00WB
96+00WB
97+00WB
98+00WB
99+00WB

92+00EB
93+00EB
94+00EB
95+00EB
96+00EB
97+00EB
98+00EB
99+00EB

+12
+25
+16
+71
+48
+88

25'
15'
12'
11'
10'

TT4
TT4 YELLOW

TEMPORARY PEDESTRIAN BARRICADE

Maple Bluff Rd D1-61 84"X15"

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

IH 39 NB OFF RAMP (CLOSED)

90' SHIFTING TAPER

BEGIN RIGHT TURN LANE R3-20R 24"X36"

GUY
GUYS

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5	SHEET 290	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025050-TCZ.DWG
LAYOUT NAME - 05
PLOT DATE : 3/30/2021 8:38 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

2 W01-6 48"X 24" TYPE III BARRICADE

3 NORTH WEST EAST INTERSTATE 39 10 66 RIGHT LANE M3-2 36"X18" M1-6 36"X36" 60"X12"

4 SOUTH WEST INTERSTATE 39 66 LEFT LANE M3-4 36"X18" M1-6 36"X36" 54"X12"

Maple Bluff Rd D1-61 84"X15"

BEGIN RIGHT TURN LANE R3-20R 24"X36"

160' SHIFTING TAPER

TT4
3' LINE 9' GAP
YELLOW

STAGE WORK AT THIS LOCATION
TO ALLOW CONTINUOUS PEDESTRIAN ACCESS

TP8
EXISTING

TP8
EXISTING

TP4 EXISTING

TP4
YELLOW
EXISTING

MAPLE BLUFF RD

24+00MB
23+00MB
22+00MB
21+00MB

R60'

12'
11'
10'

99+00WB
100+00WB
101+00WB
USH 10 WB
+94
102+00WB
+82
103+00WB
25'
104+00WB
105+00WB
106+00WB

99+00EB
100+00EB
101+00EB
102+00EB
103+00EB
104+00EB
105+00EB
106+00EB

160' SHIFTING TAPER

10'
10'

12'
12'

USH 10 EB

TT4

TT4
YELLOW

ONLY R3-5OR 30"X36"

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

100' SHIFTING TAPER

ONLY R3-5OR 30"X36"

SPEED LIMIT 40

R3-2 24"X24"

COMPLETE WORK IN THIS AREA
DURING NIGHTTIME
CONCRETE PAVEMENT SHES 10-INCH
DO NOT NEED TO STAGE
NIGHTTIME WORK FOR PEDESTRIANS

OLD HWY 18 RD

TEMPORARY MARKING ARROW REMOVABLE TAPE

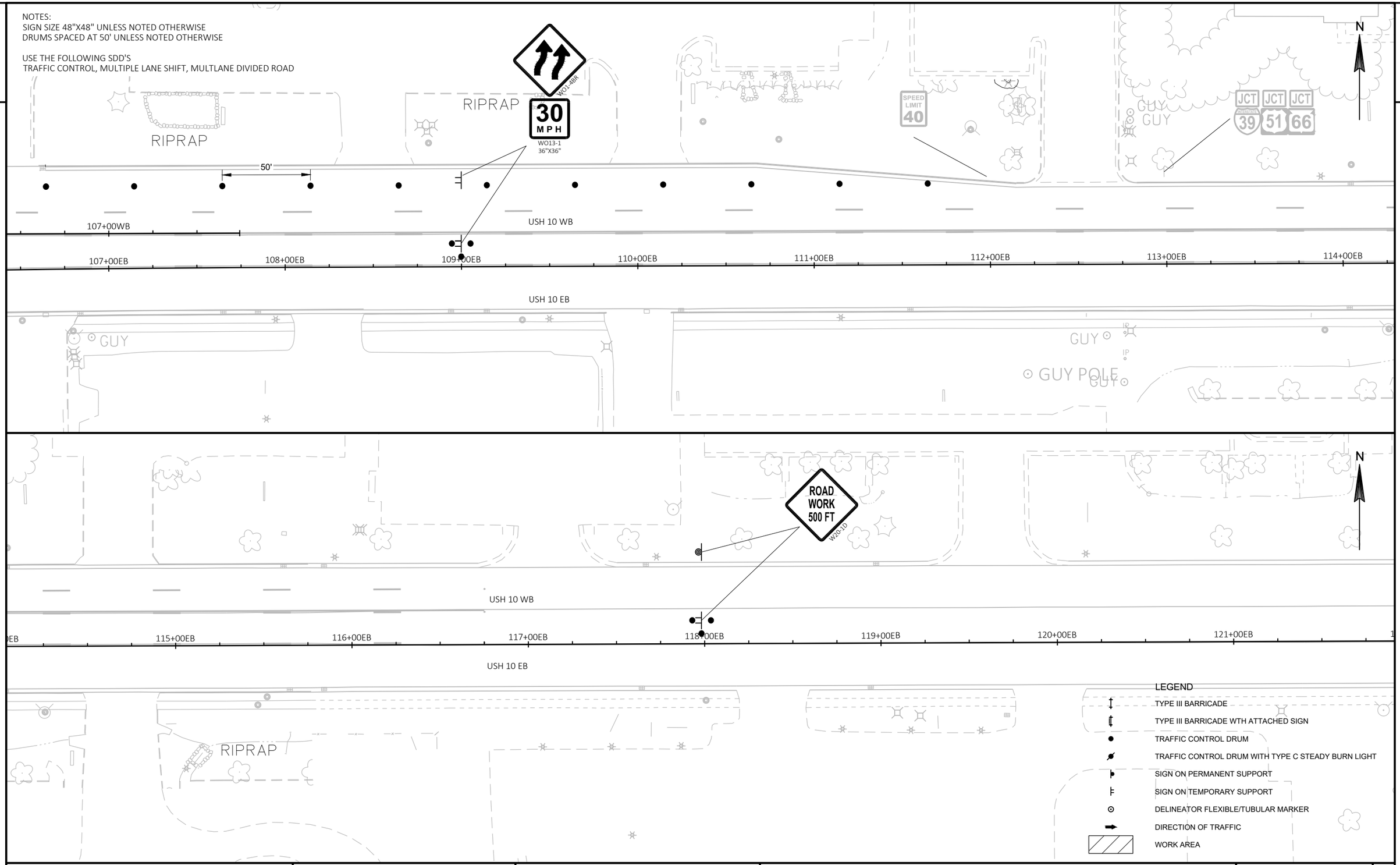
GUY

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5	SHEET 291	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5	SHEET 292	E

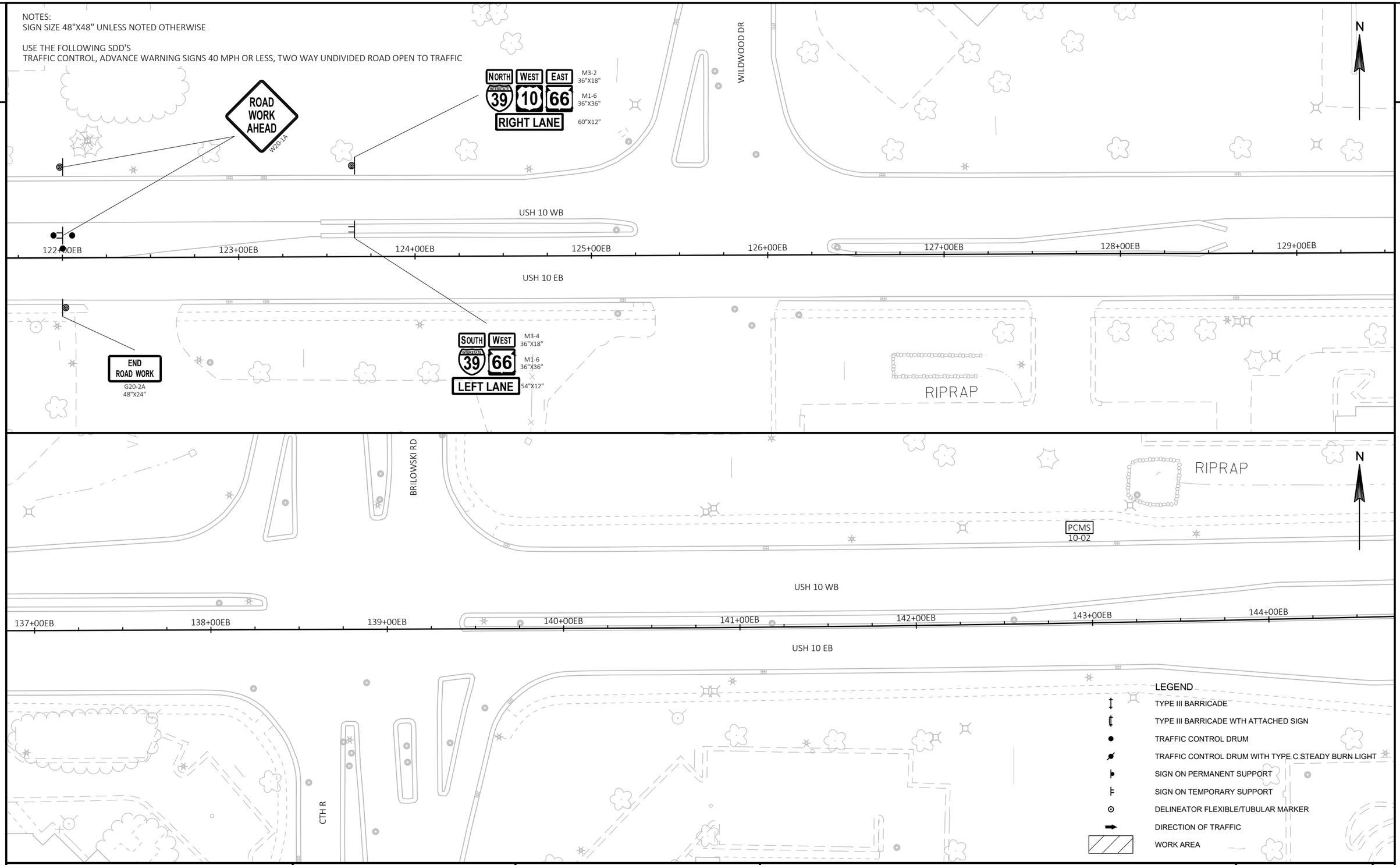
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025050-TCZ.DWG
LAYOUT NAME - 07

PLOT DATE : 3/30/2021 8:39 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5	SHEET 293	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025050-TCZ.DWG
LAYOUT NAME - 08
PLOT DATE : 3/30/2021 8:39 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

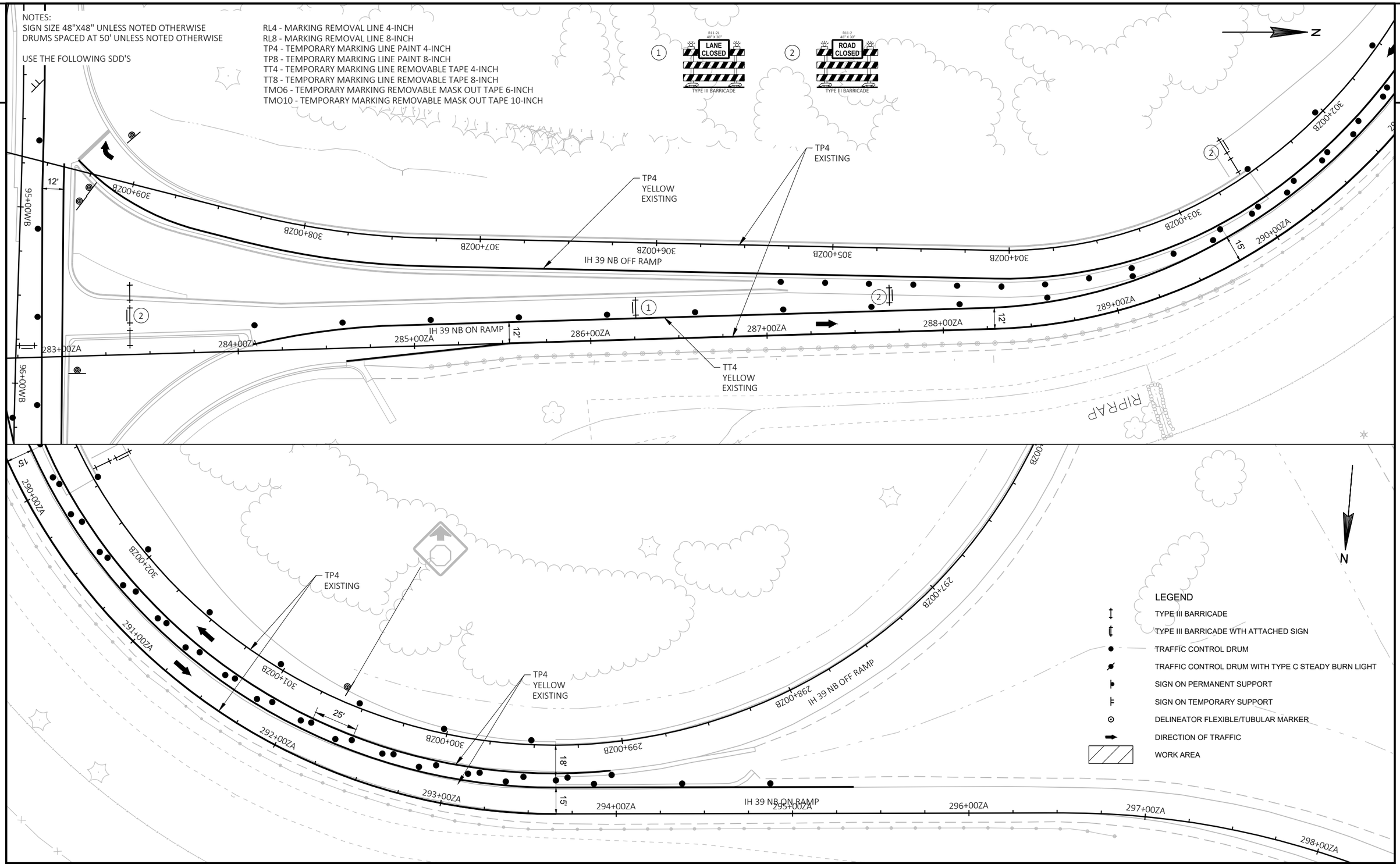
NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

2 R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE



LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5	SHEET 294	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025050-TCZ.DWG
LAYOUT NAME - 09
PLOT DATE : 3/30/2021 8:40 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, WO RK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

RIPRAP

CANOPY

N

END
ROAD WORK
G20-2A
48"X24"

OLD HWY 18 RD

GUY

W01-4R

ONLY
R3-8
36"X30"

ROAD
WORK
AHEAD
W20-1A

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TM010 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5	SHEET 295	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025050-TCZ.DWG
LAYOUT NAME - 10

PLOT DATE : 3/30/2021 8:40 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

1 — LANE CLOSED — TYPE III BARRICADE

N

IH 39 NB OFF RAMP (CLOSED)
IH 39 NB ON RAMP
75' SHIFTING TAPER
TT4 YELLOW EXISTING
TT4 EXISTING
TT4 YELLOW
TT4
TT4
TT4 YELLOW
RIPRAP
WB00+96
WB95+00
283+00ZA
284+00ZA
285+00ZA
286+00ZA
287+00ZA
288+00ZA
289+00ZA
290+00ZA
291+00ZA
292+00ZA
293+00ZA
294+00ZA
295+00ZA
296+00ZA
297+00ZA
298+00ZA
299+00ZB
300+00ZB
301+00ZB
302+00ZB
303+00ZB
304+00ZB
305+00ZB
306+00ZB
307+00ZB
308+00ZB
309+00ZB
12'
15'
25'
W10-4R
W10-4L

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5 IH 39 NB OFF RAMP CLOSURE	SHEET 296	E

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

1 WO1-6 48"X 24" TYPE III BARRICADE

LOOP DETECTOR INSTALLATION
COMPLETE WORK OVERNIGHT
FROM 9PM TO 6 AM

MARKING STOP LINE EPOXY
18-INCH

SPEED LIMIT 40

NO PARKING ANY TIME

EAST 10 — M3-2 24"X12", M1-4 24"X24", MO6-1 21"X21"

STH 66 WB

77+00WB
78+00WB
79+00WB
80+00WB
81+00WB
82+00WB
83+00WB
84+00WB

LEFT TURN LANE (HILLTOP PUB)

77+00EB
78+00EB
79+00EB
80+00EB
81+00EB
82+00EB
83+00EB
84+00EB

25'

STH 66 EB

9'
12'

100'

75'

TT4 YELLOW

TT8

BEGIN LEFT TURN LANE — R3-20L 24"X36"

BIKE PATH

GUY

COUNTRY CLUB DR

63+00CC
62+00CC
61+00CC

GUY POLE
GUY POLE

2

NORTH | SOUTH | WEST | DETOUR EAST | 10 | 39 | 10 | 66 | FAR LANE | NEAR LANE | NEAR LANE | NEAR LANE
M4-8 24"X12", M3-2 24"X12", M1-6 24"X24", 24"X24"

NORTH | SOUTH | WEST | DETOUR EAST | 39 | 10 | 66
M4-8 24"X12", M3-2 24"X12", M1-6 24"X24", MO6-2 21"X21"

SOUTH | SOUTH | 39 | 51
COVER

LEGEND

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

PROJECT NO: 1166-06-75/6290-09-71	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5A	SHEET 297	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025052-TCZ.DWG
LAYOUT NAME - 01

PLOT DATE : 3/30/2021 8:34 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

2 W21-6 48" X 24" TYPE III BARRICADE

M3-3 24"X12"
M1-1 24"X24"
M6-1 21"X21"
SOUTH INTERSTATE 39

N

TT8
MARKING STOP LINE EPOXY 18-INCH EXISTING
TT4 EXISTING
TT8 EXISTING
TT4 YELLOW EXISTING
25'
12'
+62
+12
11'
STH 66 WB
STH 66 EB
84+00WB
85+00WB
86+00WB
87+00WB
88+00WB
89+00WB
90+00WB
91+00W
84+00EB
85+00EB
86+00EB
87+00EB
88+00EB
89+00EB
90+00EB
91+00E
15'
TT4 EXISTING
TT4 YELLOW EXISTING
TT4 3' LINE 9' GAP EXISTING
GUY
GUYS
ONLY
IH 39 SB ON RAMP
IH 39 SB OFF RAMP
SOUTH INTERSTATE 39 51
COVER

LEGEND

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

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5A	SHEET 298	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

1 R11-2L 48" x 30" LANE CLOSED — TYPE III BARRICADE
2 W01-6 48" x 24" — TYPE III BARRICADE
3 R11-2 48" x 30" ROAD CLOSED — TYPE III BARRICADE

M3-3 24"X12"
M1-1 24"X24"
MO5-1L 21"X21"
SOUTH INTERSTATE 39

ONE WAY R6-2R 24"X30"

R6-1R 36"X12" ONE WAY
R3-2 24"X24"

STOP R1-1 36"X36"

WEST 66 M3-4 24"X12" M1-6 24"X24" M6-1 21"X21"

R3-1 24"X24"

SOUTH INTERSTATE 39 WEST 66 M3-4 24"X12" M1-6 24"X24" M6-1 21"X21"

NORTH INTERSTATE 39 WEST 10 EAST 66 M3-2 24"X12" M1-6 24"X24" MO6-2 21"X21"

TT4 EXISTING
TT4 YELLOW EXISTING
TP8 EXISTING
TT4 DOUBLE YELLOW EXISTING
TT4 EXISTING
TT4 YELLOW EXISTING
TEMPORARY PEDESTRIAN BARRICADE

IH 39 NB OFF RAMP
IH 39 NB ON RAMP

92+00WB 93+00WB 94+00WB 95+00WB 96+00WB 97+00WB 98+00WB 99+00WB
USH 10 WB
USH 10 EB
92+00EB 93+00EB 94+00EB 95+00EB 96+00EB 97+00EB 98+00EB 99+00EB
283+00ZA 284+00ZA 309+00ZB 310+00ZB
25' 12' 11' +25 +52 +88
236' SHIFTING TAPER
TT4 TT8 TT8 EXISTING

R6-1R 36"X12" ONE WAY
R3-2 24"X24"

STOP R1-1 36"X36"
EAST 10 M3-2 24"X12" M1-4 24"X24" M6-1 21"X21"

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

GUY
GUYS

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5A	SHEET 299	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025052-TCZ.DWG
LAYOUT NAME - 03
PLOT DATE : 3/30/2021 8:35 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTLANE DIVIDED ROAD
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

2 W01-6 48" X 24" TYPE III BARRICADE

3 NORTH WEST EAST INTERSTATE 39 10 66 RIGHT LANE — M3-2 36"X18", M1-6 36"X36", 60"X12"

4 SOUTH WEST INTERSTATE 39 66 LEFT LANE — M3-4 36"X18", M1-6 36"X36", 54"X12"

Maple Bluff Rd D1-61 84"X15"

BEGIN RIGHT TURN LANE R3-20R 24"X36"

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

ONLY R3-50R 30"X36"

SPEED LIMIT 40

160' SHIFTING TAPER

160' SHIFTING TAPER

TP8 EXISTING

TT8

TP4 EXISTING

TP4 YELLOW EXISTING

MARKING STOP LINE EPOXY 18-INCH

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

MARKING STOP LINE EPOXY 18-INCH

MARKING ARROW EPOXY

MAPLE BLUFF RD

OLD HWY 18 RD

USH 10 WB

USH 10 EB

24+00MB
23+00MB
22+00MB
21+00MB

99+00WB 100+00WB 101+00WB 102+00WB 103+00WB 104+00WB 105+00WB 106+00WB

99+00EB 100+00EB 101+00EB 102+00EB 103+00EB 104+00EB 105+00EB 106+00EB

+83 +58

12' 11' 25' 25'

GUY GUYS IP

LEGEND
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5A	SHEET 300	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025052-TCZ.DWG
LAYOUT NAME - 04
PLOT DATE : 3/30/2021 8:35 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########

2

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

TT4 DOUBLE YELLOW
TEMPORARY MARKING ARROW REMOVABLE TAPE
TMO6 DOUBLE YELLOW
TMO6 ARROW
TMO6 STOP BAR
TMO6
TT8
BEGIN RIGHT TURN LANE R3-20R 24"X36"
170' BUFFER SPACE
100'
TT4
15'
50'
50'
9'
10'
10'
12'
12'
+64
1
N
STH 66 WB
STH 66 EB
00WB 80+00WB 81+00WB 82+00WB 83+00WB 84+00WB 85+00WB 86+00WB
+00EB 80+00EB 81+00EB 82+00EB 83+00EB 84+00EB 85+00EB 86+00EB
BIKE PATH
GUY
COUNTRY CLUB DR
63+00CC
62+00CC
61+00CC
GUY POLE
GUY POLE
GUY
GUY
GUY

LEGEND

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

PROJECT NO: 1166-06-75/6290-09-71	HWY: USH 10/STH 66	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5B	SHEET 301	E

2

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

N

M3-3 24"X12"
M1-1 24"X24"
M6-1 21"X21"
SOUTH
INTERSTATE 39

TT8 EXISTING
TT4 EXISTING
TT4
320' TAPER
25'
TT8
12'

87+00WB
88+00WB
89+00WB
90+00WB
91+00WB
92+00WB
93+00WB
94+00WB
STH 66 WB

M3-3 24"X12"
M1-1 24"X24"
MO5-1L 21"X21"
SOUTH
INTERSTATE 39

87+00EB
88+00EB
89+00EB
90+00EB
91+00EB
92+00EB
93+00EB
94+00EB
310+028

USH 10EB/STH 66 EB

GUY
GUYS
GUY
GUY
GUYS

ONLY
ONLY
ONLY

IH 39 SB ON RAMP
39 SB OFF RAMP

LEGEND

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

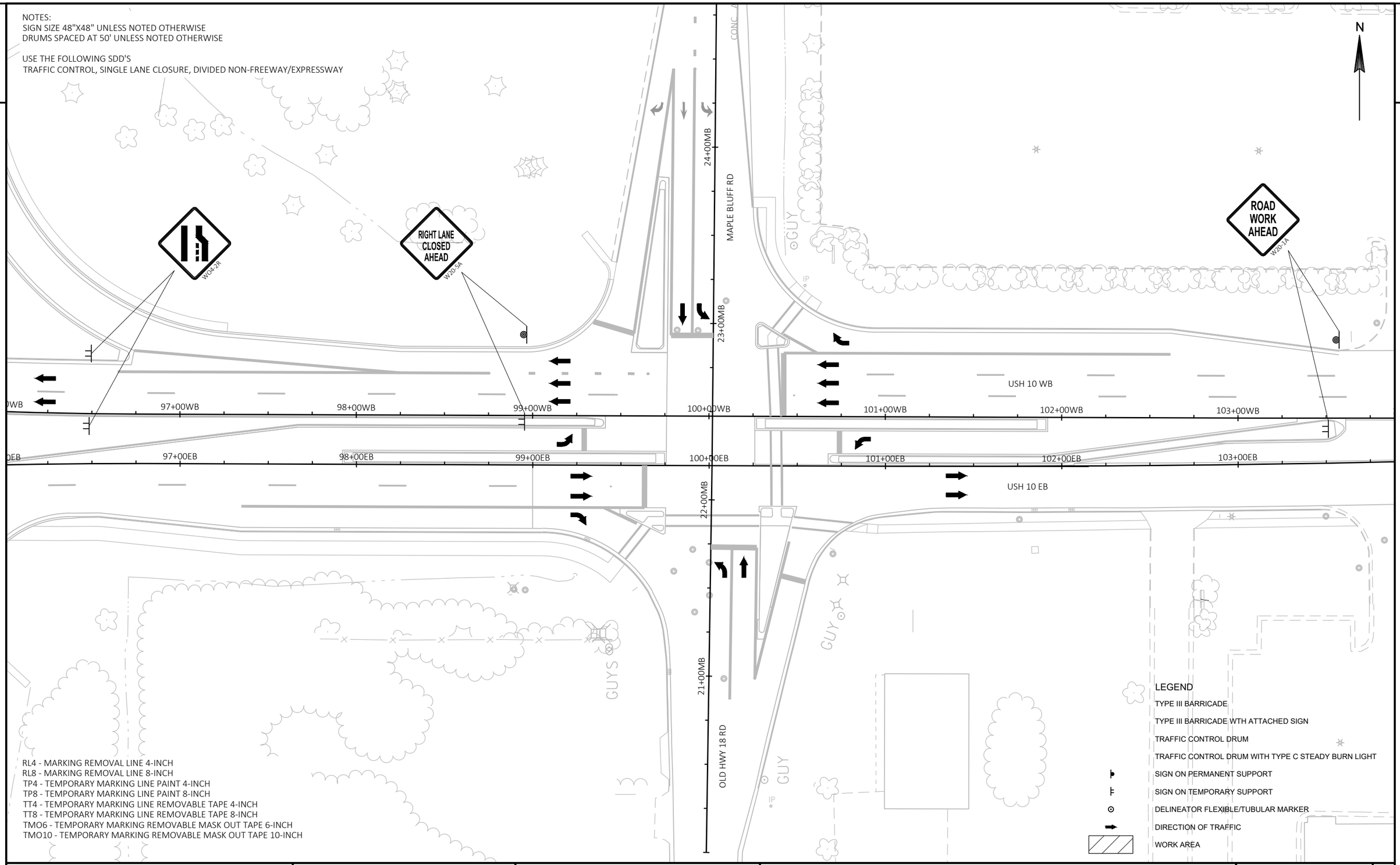
PROJECT NO: 1166-06-75/6290-09-71	HWY: USH 10/STH 66	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5B	SHEET 302	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025053-TCZ.DWG
LAYOUT NAME - 02
PLOT DATE : 3/2/2021 9:37 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : ##########

2

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY



RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

PROJECT NO: 1166-06-75/6290-09-71	HWY: USH 10/STH 66	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5B	SHEET 303	E

2

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

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

TT4
DOUBLE YELLOW
EXISTING

TEMPORARY MARKING ARROW REMOVABLE TAPE
EXISTING

TMO6
DOUBLE YELLOW
EXISTING

TMO10
STOP BAR
EXISTING

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

N

15'
25'
25'
12'
12'
1

00WB 80+00WB 81+00WB 82+00WB 83+00WB 84+00WB 85+00WB 86+00WB
STH 66 WB

+00EB 80+00EB 81+00EB 82+00EB 83+00EB 84+00EB 85+00EB 86+00EB
STH 66 EB

BIKE PATH
GUY
COUNTRY CLUB DR
63+00CC
62+00CC
61+00CC
GUY POLE
GUY POLE
GUY
GUY
GUY

LEGEND

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

PROJECT NO: 1166-06-75/6290-09-71	HWY: USH 10/STH 66	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5C	SHEET 304	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025054-TCZ.DWG
LAYOUT NAME - 01
PLOT DATE : 3/2/2021 9:39 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

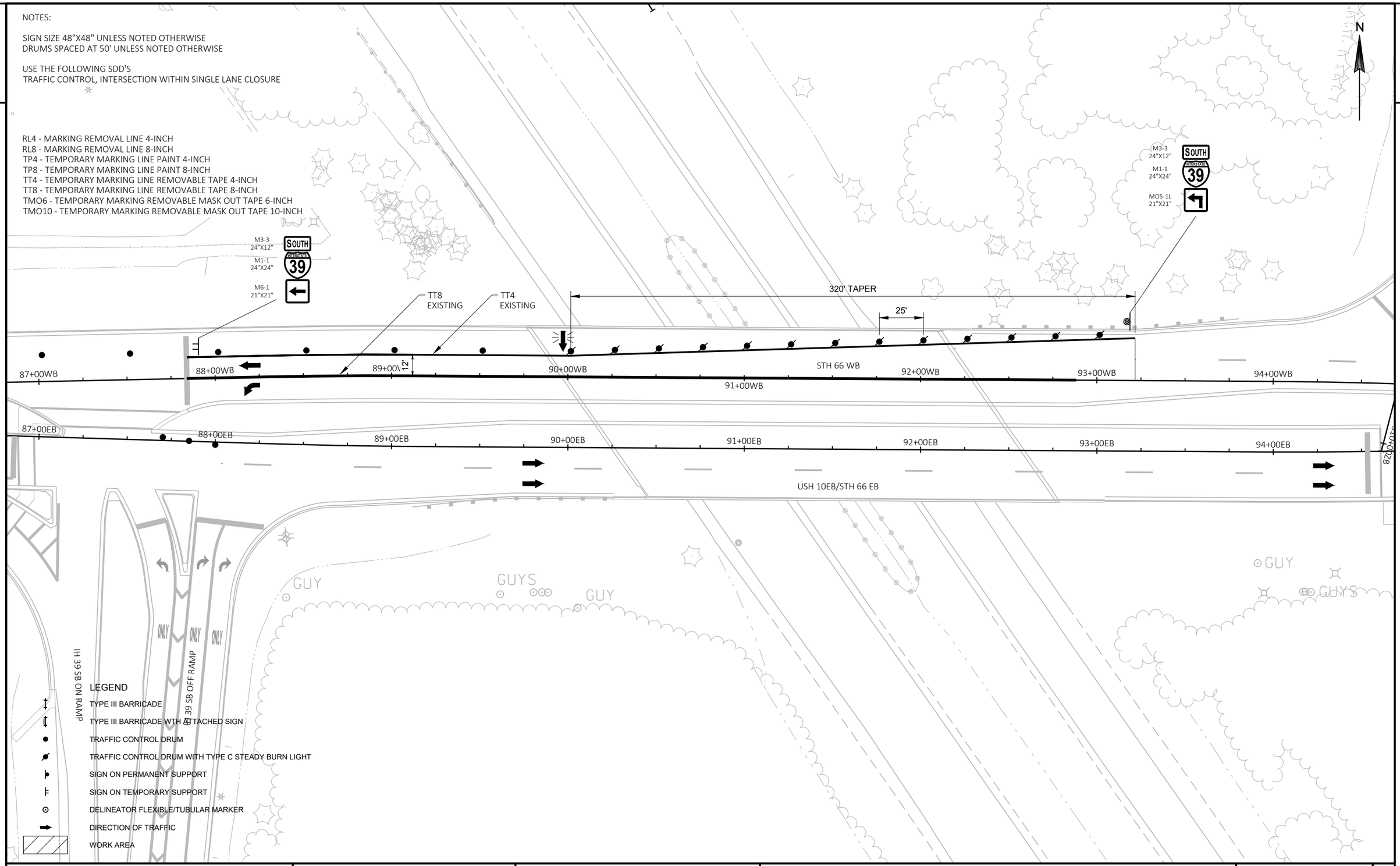
2

NOTES:

SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH



PROJECT NO: 1166-06-75/6290-09-71	HWY: USH 10/STH 66	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5C	SHEET 305	E

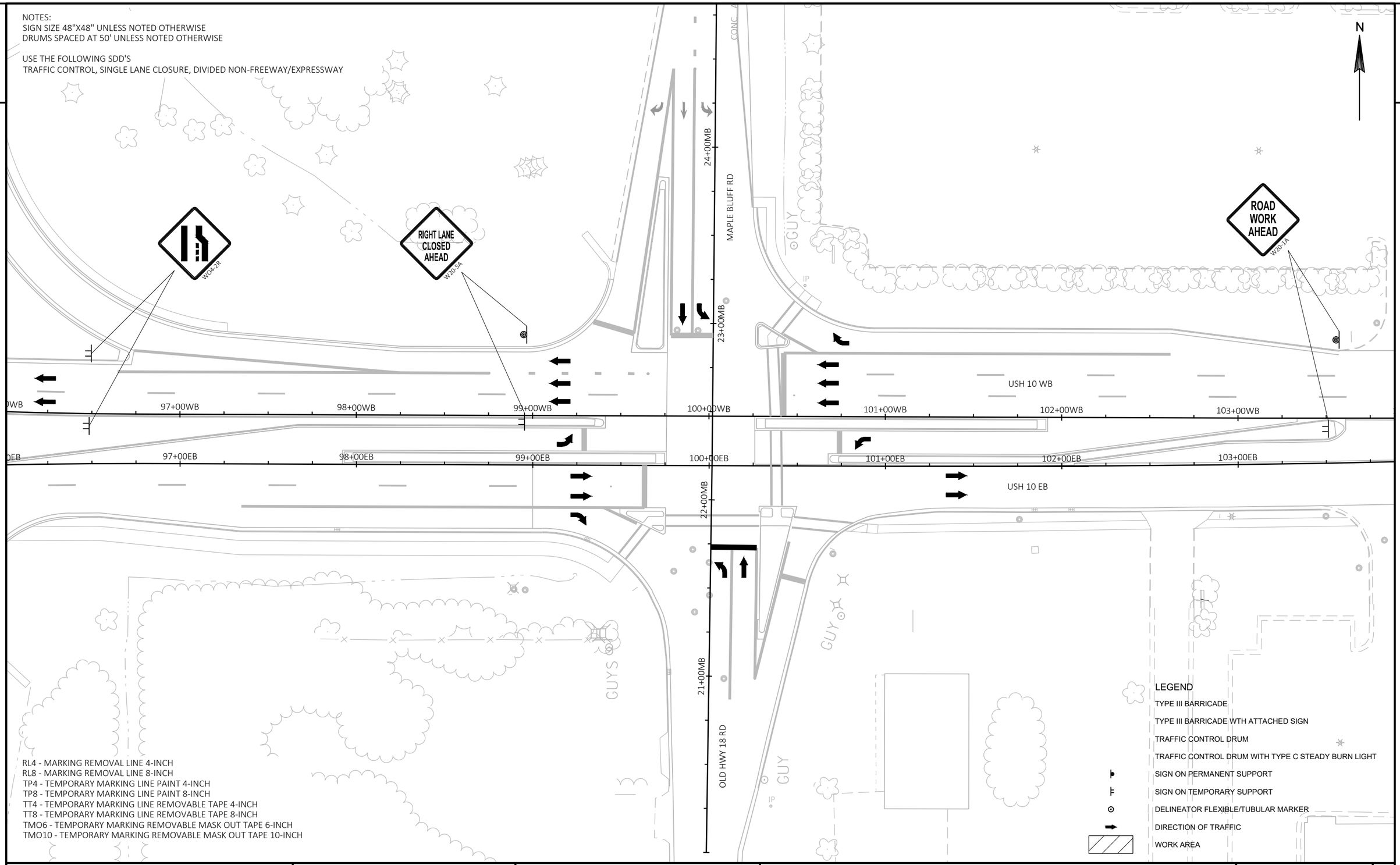
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025054-TCZ.DWG
LAYOUT NAME - 02

PLOT DATE : 3/2/2021 9:39 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : ##########

2

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE
DRUMS SPACED AT 50' UNLESS NOTED OTHERWISE

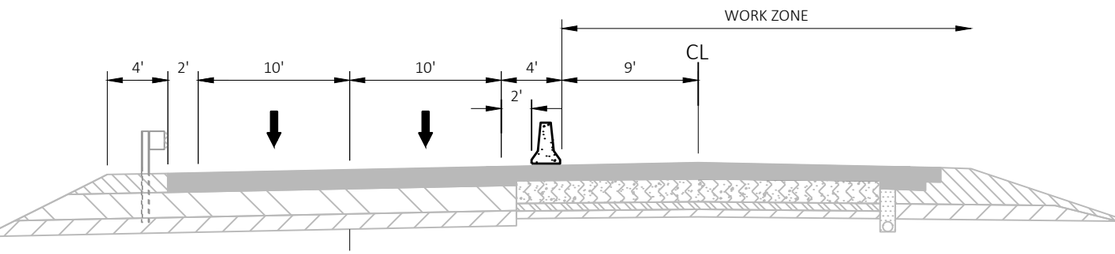
USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

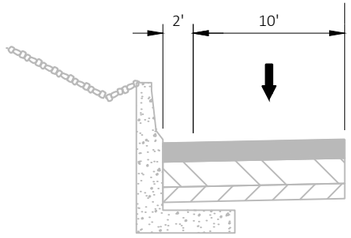


RL4 - MARKING REMOVAL LINE 4-INCH
RL8 - MARKING REMOVAL LINE 8-INCH
TP4 - TEMPORARY MARKING LINE PAINT 4-INCH
TP8 - TEMPORARY MARKING LINE PAINT 8-INCH
TT4 - TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
TT8 - TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH
TMO6 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
TMO10 - TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

PROJECT NO: 1166-06-75/6290-09-71	HWY: USH 10/STH 66	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 5C	SHEET 306	E

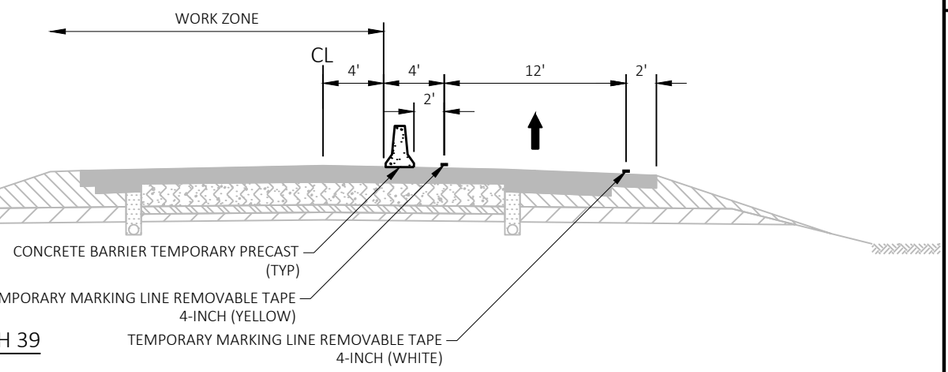
2





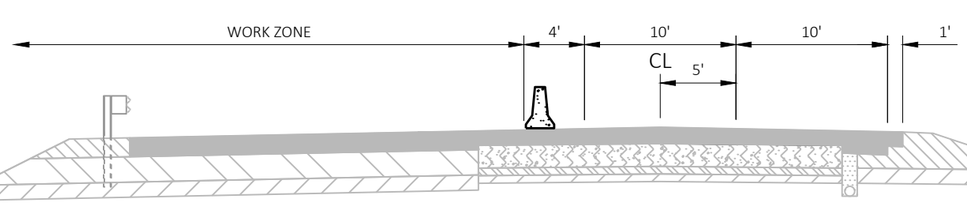
REINFORCED CONCRETE RETAINING WALL

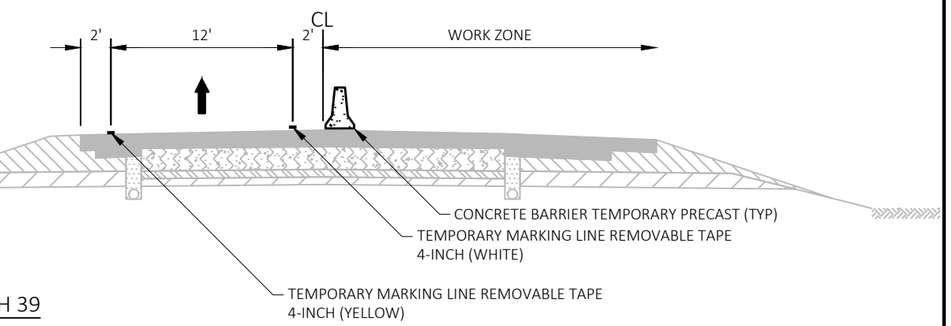
STA 1288+83 TO STA 1291+00



TRAFFIC CONTROL TYPICAL SECTION IH 39

INSIDE LANE CLOSURE





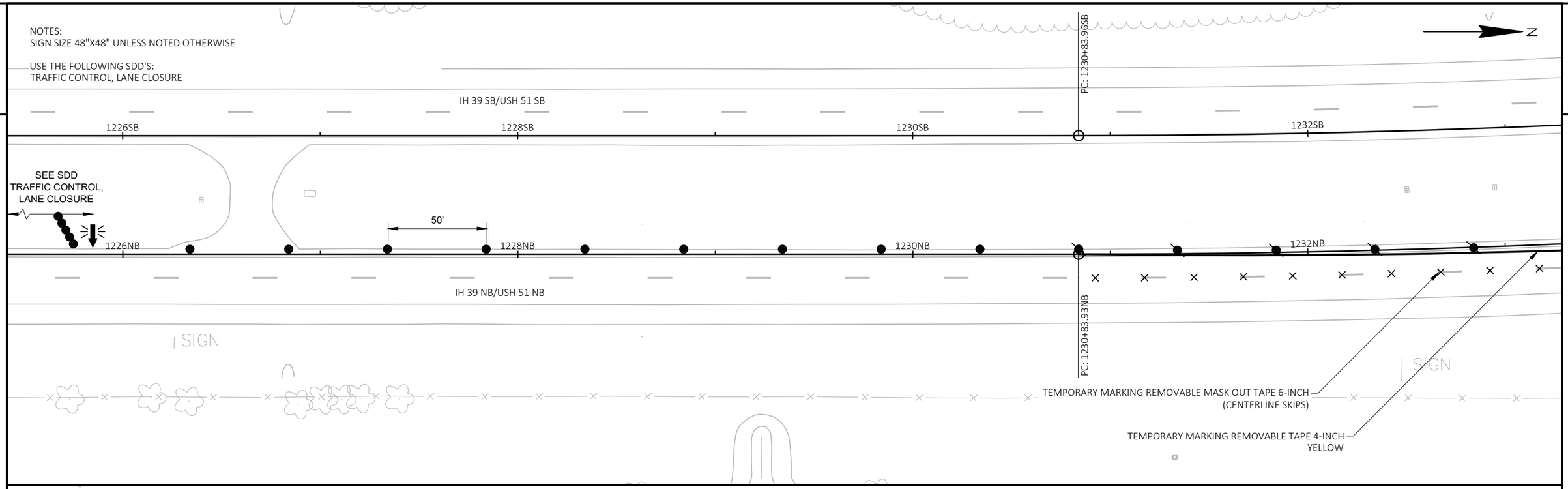
TRAFFIC CONTROL TYPICAL SECTION IH 39

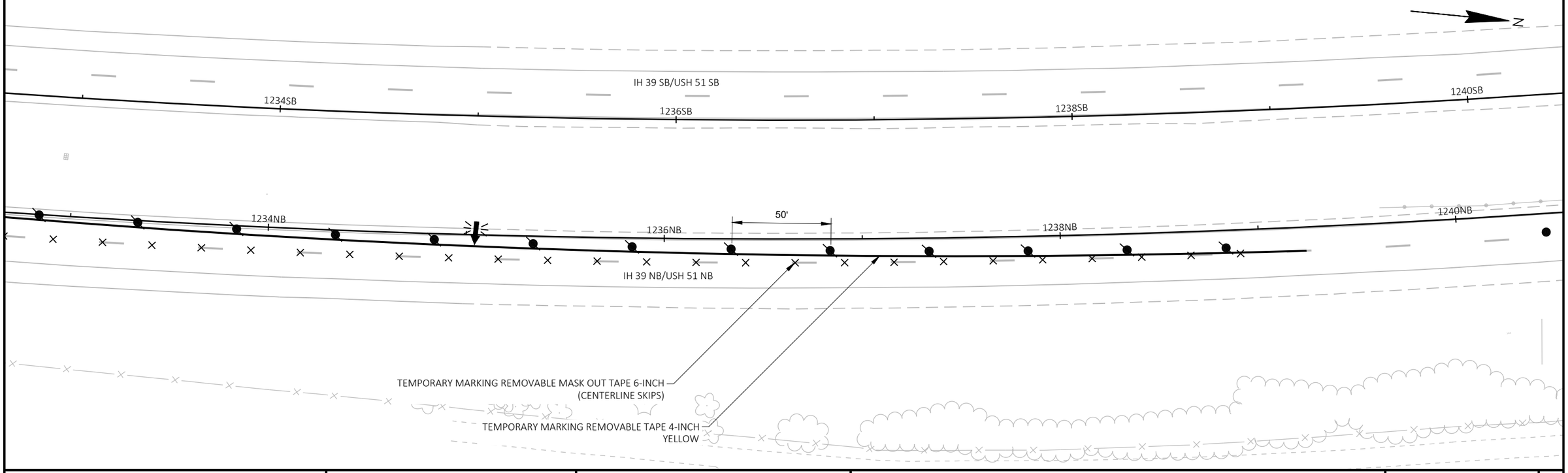
OUTSIDE LANE CLOSURE

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 6 TYPICAL SECTION - BRIDGE PAINTING	SHEET 307	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE CLOSURE





PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 6 INSIDE LANE CLOSURE - BRIDGE PAINTING	SHEET 308	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED
TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

IH 39 SB/USH 51 SB

1258SB 1260SB 1262SB 1264SB

1258NB 1260NB 1262NB 1264NB

IH 39 NB/USH 51 NB

STA BACK = 1265+53.46SB
STA AHEAD = 1265+90.14SB

PT: 1265+90.14SB

IH 39 SB/USH 51 SB

1264SB 1266SB 1268SB 1270SB 1272SB

END ROAD WORK
G20-2A
48"X24"

1266NB 1268NB 1270NB 1272NB

PT: 1265+90.14NB

W24-1R

WIDE LOADS EXCEEDING 15 FT
R12-70B
114"X42"

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 6 INSIDE LANE CLOSURE - BRIDGE PAINTING	SHEET 309	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED
TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

IH 39 SB/USH 51 SB

1272SB 1274SB 1276SB 1278SB

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE

1272NB 1274NB 1276NB 1278NB

100'

200'

EXIT 158
30 MPH

TEMPORARILY MOVE SIGN

TEMPORARY MARKING REMOVABLE TAPE 4-INCH YELLOW

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE 3' LINE 9' GAP

ASPHALTIC SURFACE TEMPORARY SEE CONSTRUCTION DETAILS

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE

TEMPORARY MARKING REMOVABLE TAPE 4-INCH YELLOW

TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

10'

IH 39 SB/USH 51 SB

12'

12'

1280SB 1282SB 1284SB 1286SB

MARKING REMOVAL LINE WIDE (GORE MARKING)

TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

690' SHIFTING TAPER

280' SHIFTING TAPER

300' BUFFER SPACE

160'

50'

100'

1280NB 1282NB 1284NB 1286NB

12'

12'

TEMPORARY MARKING REMOVABLE TAPE 4-INCH YELLOW

TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH WHITE

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE

RAMP TO USH 10 EB

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 6 INSIDE LANE CLOSURE - BRIDGE PAINTING	SHEET 310	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025101-TC.DWG
LAYOUT NAME - 03
PLOT DATE : 3/29/2021 10:46 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE

TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

10'

10'

IH 39 SB/USH 51 SB

50'

100'

1288SB

1290SB

1292SB

1294SB

TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

TEMPORARY MARKING REMOVABLE TAPE 4-INCH YELLOW

690' SHIFTING TAPER

25'

175'

690' SHIFTING TAPER

B-49-24

USH 10/STH 66

WO5-52L
12"X36"

400' BUFFER SPACE

160'

25'

280' SHIFTING TAPER

1288NB

1290NB

1292NB

1294NB

12'

IH 39 NB/USH 51 NB

TEMPORARY MARKING REMOVABLE TAPE 4-INCH YELLOW

TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6 INCH

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE
3' LINE 9' GAP

TEMPORARY MARKING REMOVABLE TAPE 8-INCH WHITE

RAMP TO STH 66 WB

WO5-52L
12"X36"

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED
TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

N

TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE

TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

50'

12'

12'

1294SB

1296SB

1298SB

1300SB

1

400' BUFFER SPACE

TEMPORARY MARKING REMOVABLE TAPE 4-INCH YELLOW

690' SHIFTING TAPER

1294NB

1296NB

1298NB

1300NB

IH 39 NB/USH 51 NB

END
ROAD WORK
G20-2A
48"X24"

WO1-6
48" X 24"

1

TYPE III BARRICADE

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 6 INSIDE LANE CLOSURE - BRIDGE PAINTING	SHEET 311	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025101-TC.DWG
LAYOUT NAME - 04

PLOT DATE : 3/29/2021 10:48 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE

IH 39 SB/USH 10 EB/USH 51 SB/STH 66 WB

1302SB 1304SB 1306SB 1308SB

STAY IN LANE
R4-9
48"X60"

1302NB 1304NB 1306NB 1308NB

IH 39 NB/USH 10 WB/USH 51 NB/STH 66 EB

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED

SEE SDD TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED

IH 39 SB/USH 10 EB/USH 51 SB/STH 66 WB

1308SB 1310SB 1312SB 1314SB

1308NB 1310NB 1312NB 1314NB

IH 39 NB/USH 10 WB/USH 51 NB/STH 66 EB

W24-1AR

60 MPH
WO13-1
36"X36"

2

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 6 INSIDE LANE CLOSURE - BRIDGE PAINTING	SHEET 312	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE CLOSURE

IH 39 SB/USH 51 SB

1226SB 1228SB 1230SB 1232SB

PC: 1230+83.96SB

N

SEE SDD
TRAFFIC CONTROL,
LANE CLOSURE

1226NB 1228NB 1230NB 1232NB

IH 39 NB/USH 51 NB

50'

SIGN

PC: 1230+83.96NB

TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
(CENTERLINE SKIPS)

TEMPORARY MARKING REMOVABLE TAPE 4-INCH
WHITE

SIGN

N

IH 39 SB/USH 51 SB

1234SB 1236SB 1238SB 1240SB

1234NB 1236NB 1238NB 1240NB

IH 39 NB/USH 51 NB

50'

TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
(CENTERLINE SKIPS)

TEMPORARY MARKING REMOVABLE TAPE 4-INCH
WHITE

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 6 OUTSIDE LANE CLOSURE - BRIDGE PAINTING	SHEET 313	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED
TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER
TRAFFIC CONTROL, RAMP WITHIN LANE CLOSURE

IH 39 SB/USH 51 SB

1258SB 1260SB 1262SB 1264SB

1258NB 1260NB 1262NB 1264NB

IH 39 NB/USH 51 NB

STA BACK = 1265+53.46SB
STA AHEAD = 1265+90.14SB

PT: 1265+90.14SB

IH 39 SB/USH 51 SB

1264SB 1266SB 1268SB 1270SB 1272SB

END ROAD WORK
G20-2A
48"X24"

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE

TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH CENTERLINE SKIPS

TEMPORARY MARKING TAPE 8-INCH WHITE

1266NB 1268NB 1270NB 1272NB

25'

200' TAPER

350'

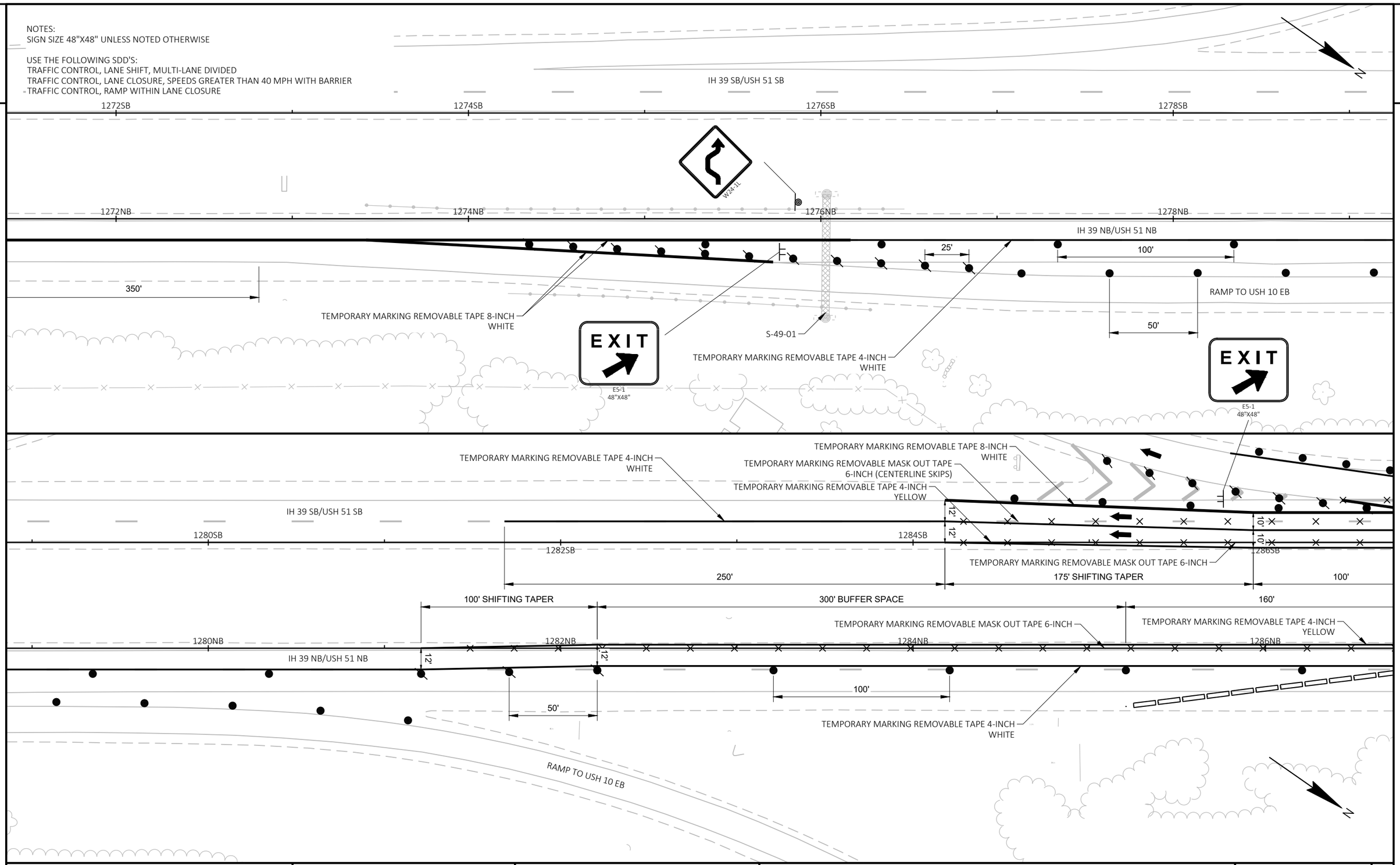
PT: 1265+90.14NB

WIDE LOADS EXCEEDING 15 FT
R12-70B
114"X42"

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 6 OUTSIDE LANE CLOSURE - BRIDGE PAINTING	SHEET 314	E

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED
TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER
TRAFFIC CONTROL, RAMP WITHIN LANE CLOSURE



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 6 OUTSIDE LANE CLOSURE - BRIDGE PAINTING	SHEET 315	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025102-TC.DWG
LAYOUT NAME - 03
PLOT DATE : 3/29/2021 10:37 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

TEMPORARY MARKING REMOVABLE MASK OUT TAPE 10-INCH

25'

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE

25'

WO5-52R
12"X36"

IH 39 SB/USH 51 SB

1288SB

1290SB

1292SB

1294SB

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE 3' LINE 9' GAP

400' BUFFER SPACE

100'

175'

160'

TEMPORARY MARKING REMOVABLE TAPE 4-INCH YELLOW

B-49-24

USH 10/STH 66

TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

25'

100' SHIFTING TAPER

1288NB

1290NB

1292NB

1294NB

12'

12'

IH 39 NB/USH 51 NB

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE

RAMP TO STH 66 WB

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE 3' LINE 9' GAP

TEMPORARY MARKING REMOVABLE TAPE 8-INCH WHITE

EXIT

E5-1
48"X48"

WO5-52R
12"X36"

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED
TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER
TRAFFIC CONTROL, RAMP WITHIN LANE CLOSURE

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE

TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH

100'

50'

1

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE

10'

10'

12'

12'

1294SB

1296SB

1298SB

1300SB

400' BUFFER SPACE

TEMPORARY MARKING REMOVABLE TAPE 4-INCH YELLOW

175' SHIFTING TAPER

250'

1294NB

1296NB

1298NB

1300NB

IH 39 NB/USH 51 NB

END
ROAD WORK
G20-2A
48"X24"

1

WO1-6
48" X 24"

TYPE III BARRICADE

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 6 OUTSIDE LANE CLOSURE - BRIDGE PAINTING	SHEET 316	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\025102-TC.DWG
LAYOUT NAME - 04
PLOT DATE : 3/29/2021 10:38 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

TEMPORARY MARKING REMOVABLE TAPE 4-INCH WHITE

250'

STAY IN LANE
R4-9
48"X60"

IH 39 SB/USH 10 EB/USH 51 SB/STH 66 WB

1302SB 1304SB 1306SB 1308SB

1302NB 1304NB 1306NB 1308NB

IH 39 NB/USH 10 WB/USH 51 NB/STH 66 EB

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S:
TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED

SEE SDD TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED

IH 39 SB/USH 10 EB/USH 51 SB/STH 66 WB

1308SB 1310SB 1312SB 1314SB

1308NB 1310NB 1312NB 1314NB

IH 39 NB/USH 10 WB/USH 51 NB/STH 66 EB

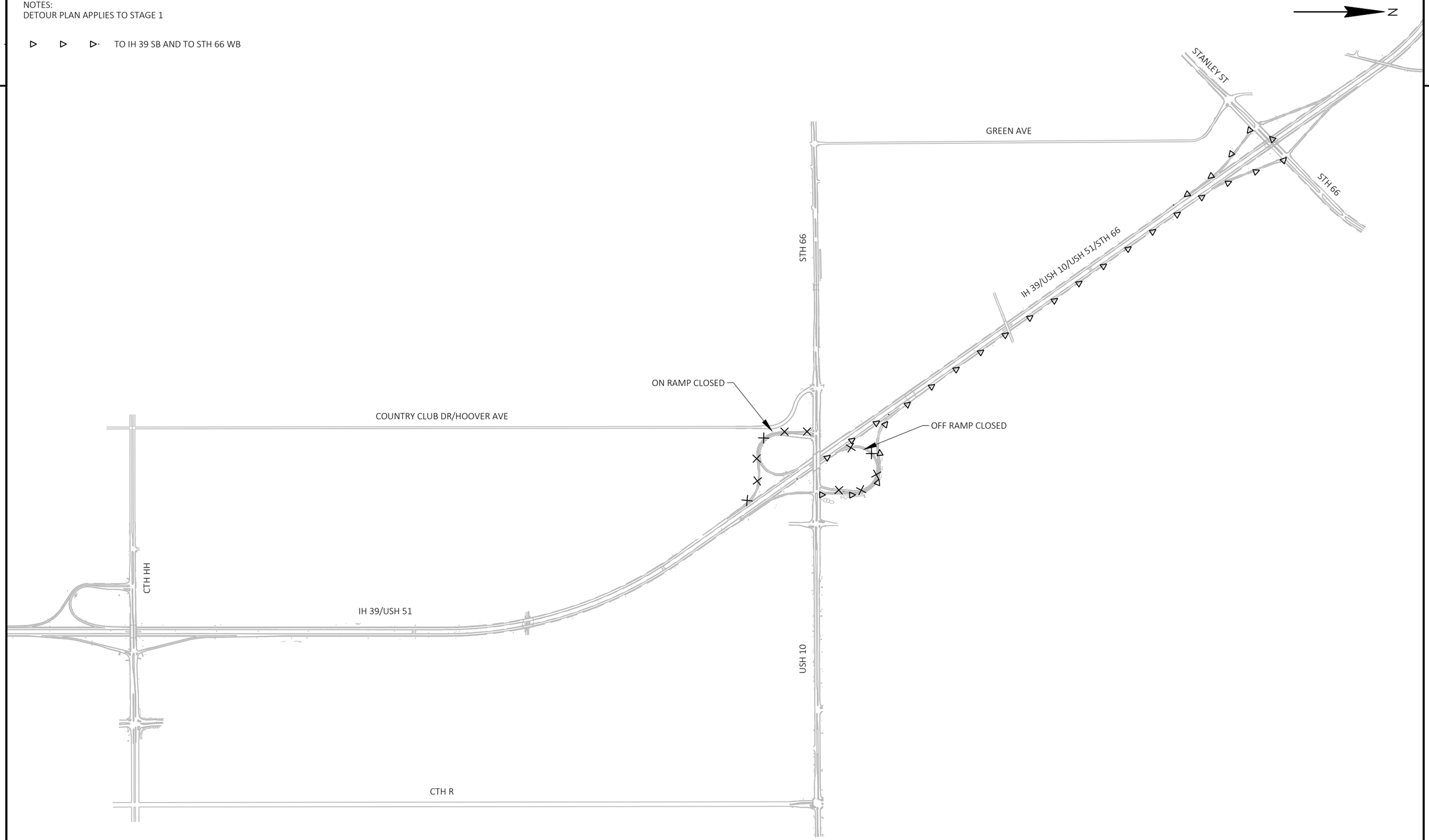
W24-1AR

2

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	TRAFFIC CONTROL - STAGE 6 OUTSIDE LANE CLOSURE - BRIDGE PAINTING	SHEET 317	E

NOTES:
DETOUR PLAN APPLIES TO STAGE 1

▷ ▷ ▷· TO IH 39 SB AND TO STH 66 WB



PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	DETOUR PLAN OVERVIEW - STAGE 1	SHEET 318	E

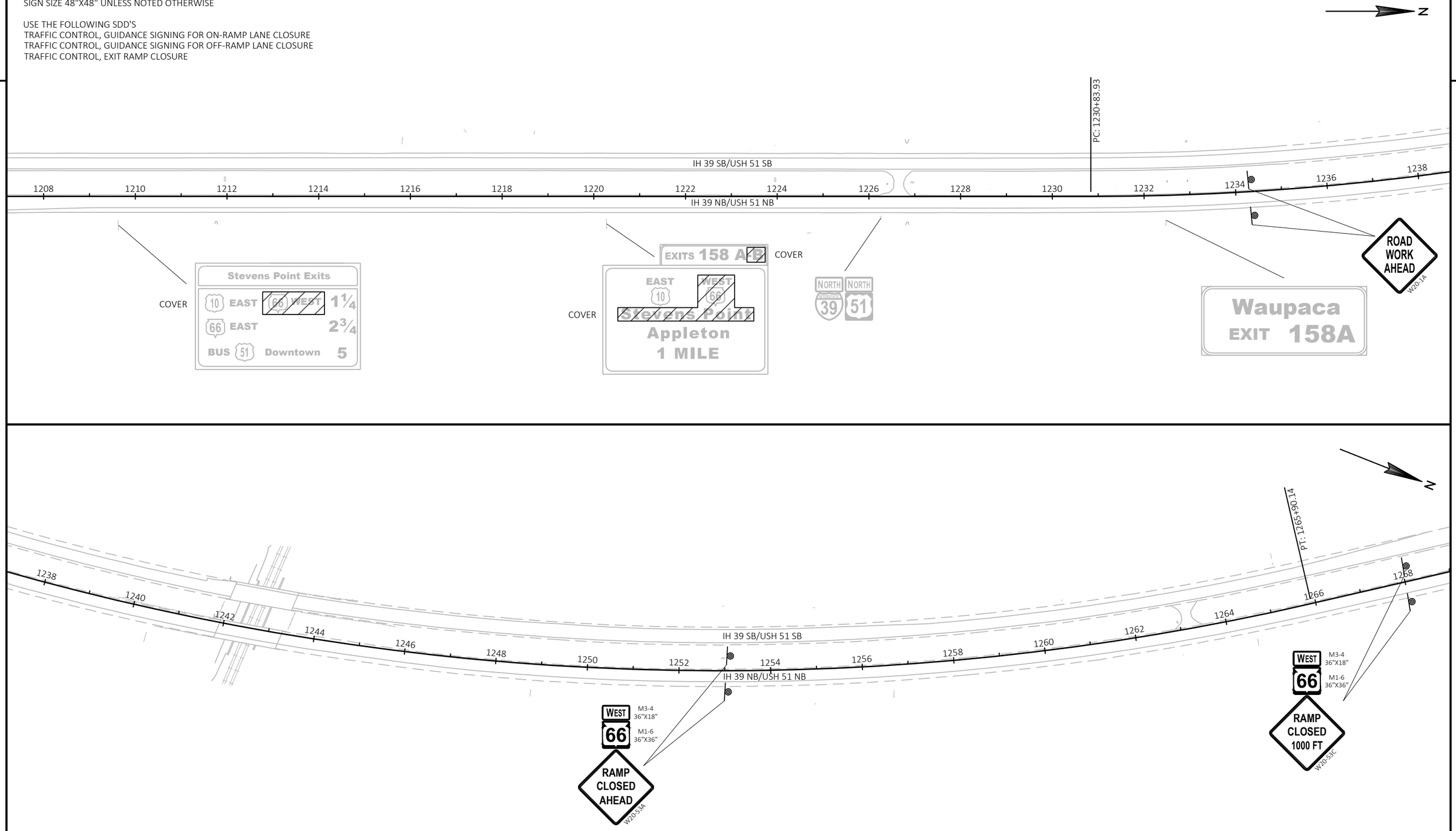
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 01

PLOT DATE : 6/29/2021 3:27 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : Custom

WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, GUIDANCE SIGNING FOR ON-RAMP LANE CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR OFF-RAMP LANE CLOSURE
TRAFFIC CONTROL, EXIT RAMP CLOSURE



PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	DETOUR - STAGE 1	SHEET 319	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 02
PLOT DATE : 6/29/2021 3:27 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, GUIDANCE SIGNING FOR ON-RAMP LANE CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR OFF-RAMP LANE CLOSURE
TRAFFIC CONTROL, EXIT RAMP CLOSURE

RAMP CLOSED

SEE TRAFFIC CONTROL - STAGE 1 FOR DETAILS

IH 39 SB/USH 51 SB

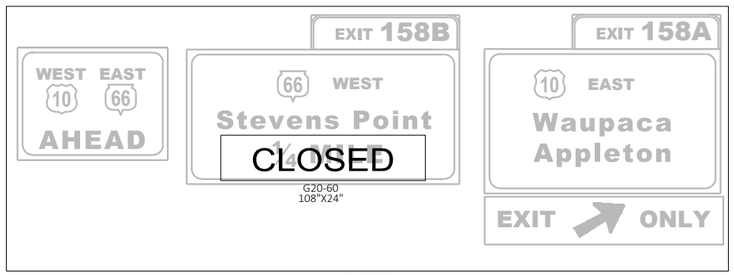
1268 1270 1272 1274 1276 1278 1280 1282 1284 1286 1288 1290 1292 1294 1296 1298

IH 39 NB/USH 51 NB

S-49-01

USH 10/STH 66

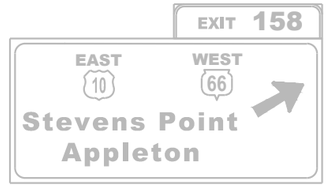
RAMP CLOSED



S-49-01

MO4-5 36"X18"
M3-4 36"X18"
M1-6 36"X36"
MO6-1 30"X30"

COVER

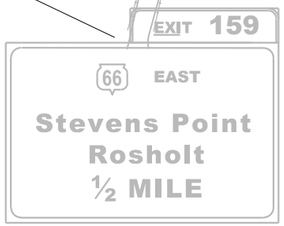


IH 39 SB/USH 51 SB/USH 10 EB/STH 66 WB

1298 1300 1302 1304 1306 1308 1310 1312 1314 1316 1318 1320 1322 1324 1326 1328

IH 39 NB/USH 51 NB/USH 10 WB/STH 66 EB

MO4-5 36"X18"
M3-4 36"X18"
M1-6 36"X36"
MO5-2R 30"X30"



PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	DETOUR - STAGE 1	SHEET 320	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 03

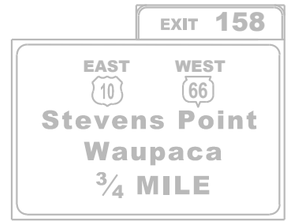
PLOT DATE : 6/29/2021 3:27 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:200 FT

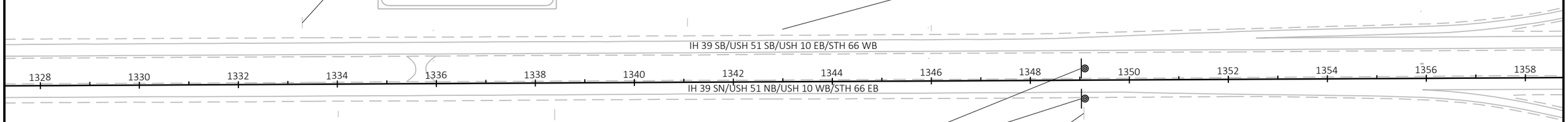
WISDOT/CADDS SHEET 44

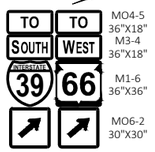
NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

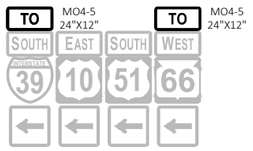
USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, GUIDANCE SIGNING FOR ON-RAMP LANE CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR OFF-RAMP LANE CLOSURE

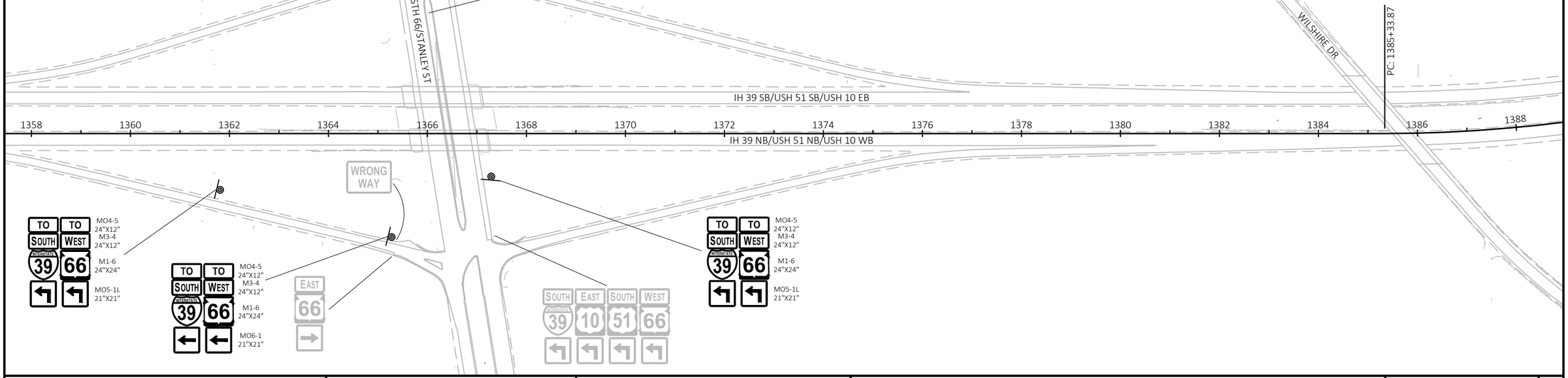
2











PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	DETOUR - STAGE 1	SHEET 321	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 04

PLOT DATE : 6/29/2021 3:27 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

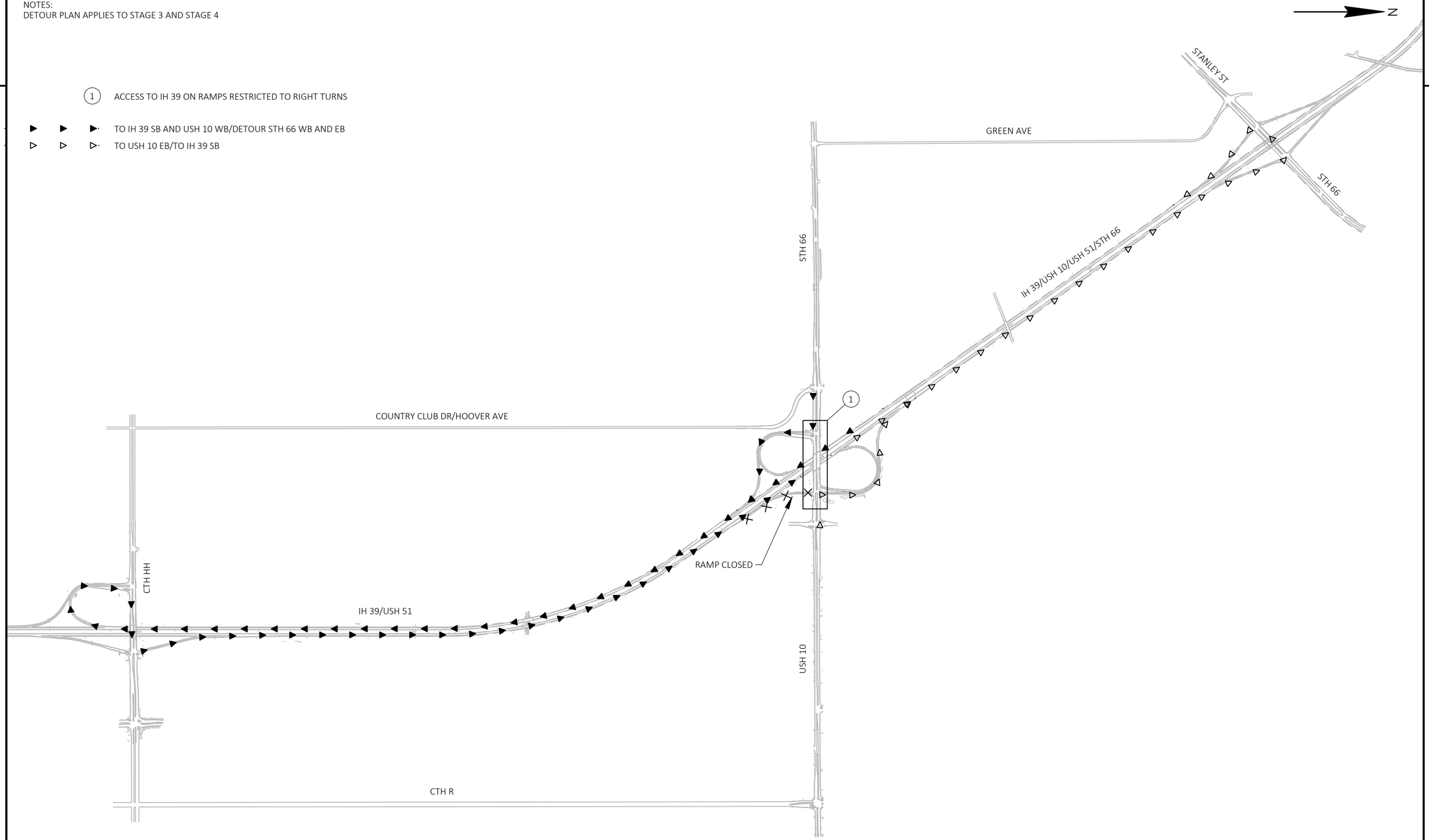
NOTES:
DETOUR PLAN APPLIES TO STAGE 3 AND STAGE 4

N

(1) ACCESS TO IH 39 ON RAMPS RESTRICTED TO RIGHT TURNS

▶ ▶ ▶ TO IH 39 SB AND USH 10 WB/DETOUR STH 66 WB AND EB

▷ ▷ ▷ TO USH 10 EB/TO IH 39 SB

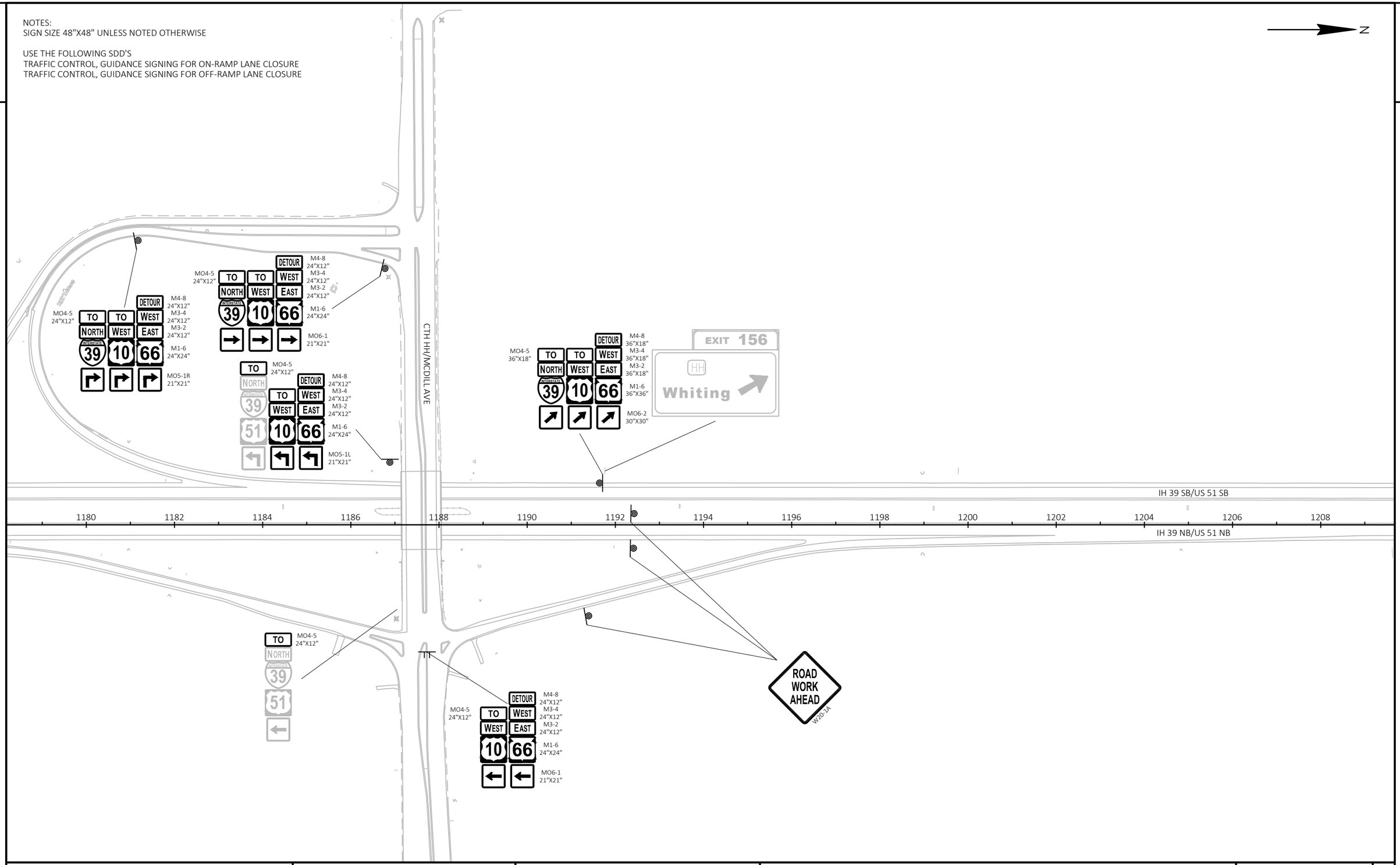


NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, GUIDANCE SIGNING FOR ON-RAMP LANE CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR OFF-RAMP LANE CLOSURE

2

N



PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	DETOUR PLAN - STAGE 3 & STAGE 4	SHEET 323	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\027003-DT.DWG
LAYOUT NAME - 02
PLOT DATE : 6/29/2021 3:29 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, EXIT RAMP CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR ON-RAMP LANE CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR OFF-RAMP LANE CLOSURE

N

PC: 1230+83.93

IH 39 SB/USH 51 SB

1208 1210 1212 1214 1216 1218 1220 1222 1224 1226 1228 1230 1232 1234 1236 1238

IH 39 NB/USH 51 NB

COVER

Stevens Point Exits
10 EAST 66 WEST 1¼
66 EAST 2¾
BUS 51 Downtown 5

DETOUR EAST 66 — M4-8 36"X18", M3-2 36"X18", M1-6 36"X36", MO6-1 30"X30"

DETOUR WEST 66 — M4-8 36"X18", M3-4 36"X18", M1-6 36"X36", MO5-2R 30"X30"

COVER

COVER

EXITS 158 A B

EAST 10 WEST 66
Stevens Point
Appleton
1 MILE

COVER

NORTH INTERSTATE 39 NORTH 51 — M1-4 36"X36"

MO4-5 36"X18" TO WEST 10 DETOUR EAST 66 — M3-4 36"X18", M4-8 36"X18", M3-2 36"X18", M1-6 36"X36"

Waupaca
EXIT 158A
CLOSED
G20-61
120"X30"

N

PI: 1265+90.14

1238 1240 1242 1244 1246 1248 1250 1252 1254 1256 1258 1260 1262 1264 1266 1268

IH 39 SB/USH 51 SB

IH 39 NB/USH 51 NB

EXIT 156
HH
Whitening
1 MILE

SOUTH INTERSTATE 39 SOUTH 51

MO4-5 36"X18" TO NORTH INTERSTATE 39 TO WEST 10 DETOUR WEST 66 — M4-8 36"X18", M3-4 36"X18", M3-2 36"X18", M1-6 36"X36", MO5-2R 30"X30"

EAST 10 — M3-2 36"X18", M1-4 36"X36"
RAMP CLOSED AHEAD
W20-53A

EAST 10 — M3-2 36"X18", M1-4 36"X36"
RAMP CLOSED 1000 FT
W20-53C

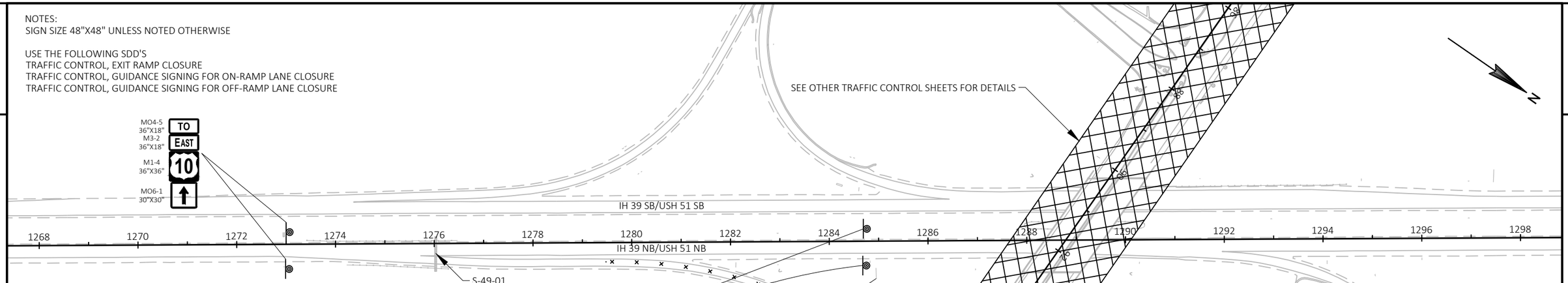
PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	DETOUR PLAN - STAGE 3 & STAGE 4	SHEET 324	E

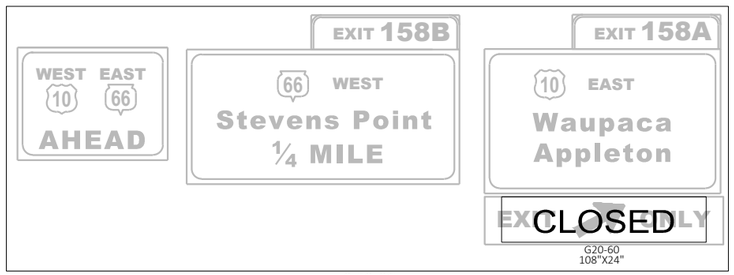
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\027003-DT.DWG
LAYOUT NAME - 03
PLOT DATE : 6/29/2021 3:29 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

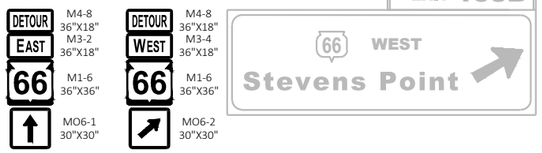
USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, EXIT RAMP CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR ON-RAMP LANE CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR OFF-RAMP LANE CLOSURE

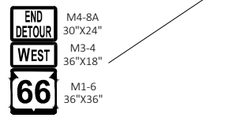
SEE OTHER TRAFFIC CONTROL SHEETS FOR DETAILS



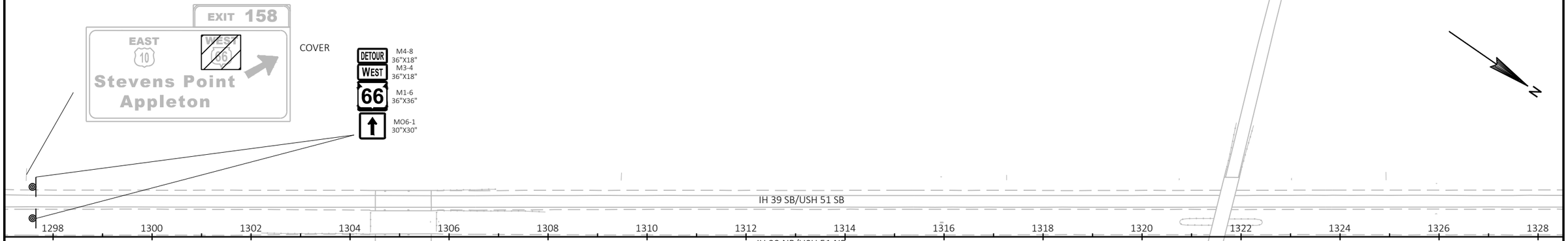


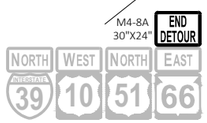
S-49-01

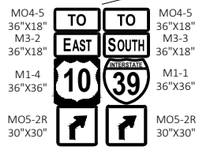


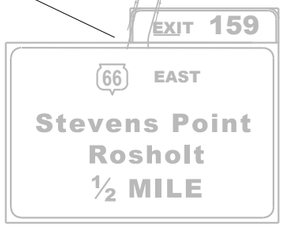


COVER







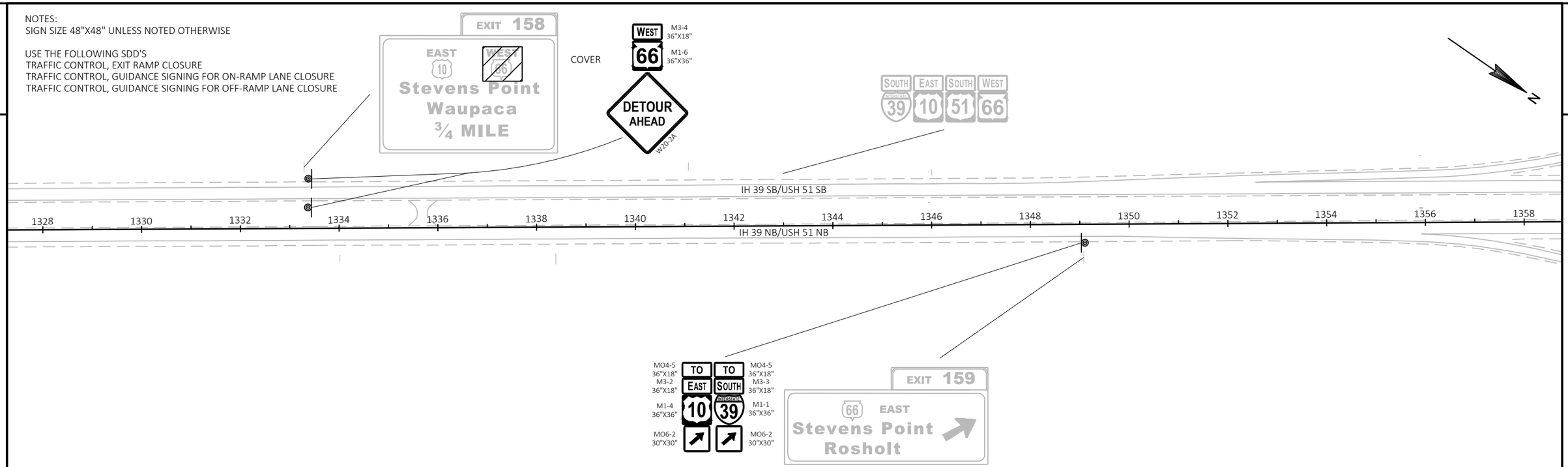


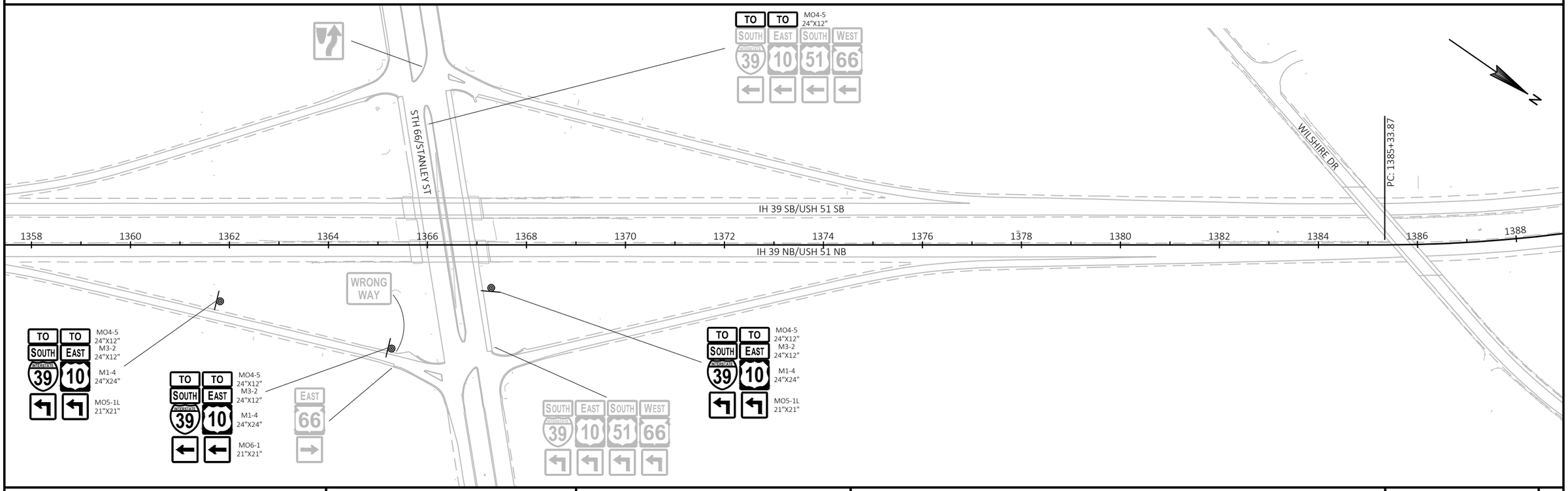
PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	DETOUR PLAN - STAGE 3 & STAGE 4	SHEET 325	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\027003-DT.DWG
LAYOUT NAME - 04
PLOT DATE : 6/29/2021 3:29 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, EXIT RAMP CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR ON-RAMP LANE CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR OFF-RAMP LANE CLOSURE





PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	DETOUR PLAN - STAGE 3 & STAGE 4	SHEET 326	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\027003-DT.DWG
LAYOUT NAME - 05
PLOT DATE : 6/29/2021 3:29 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

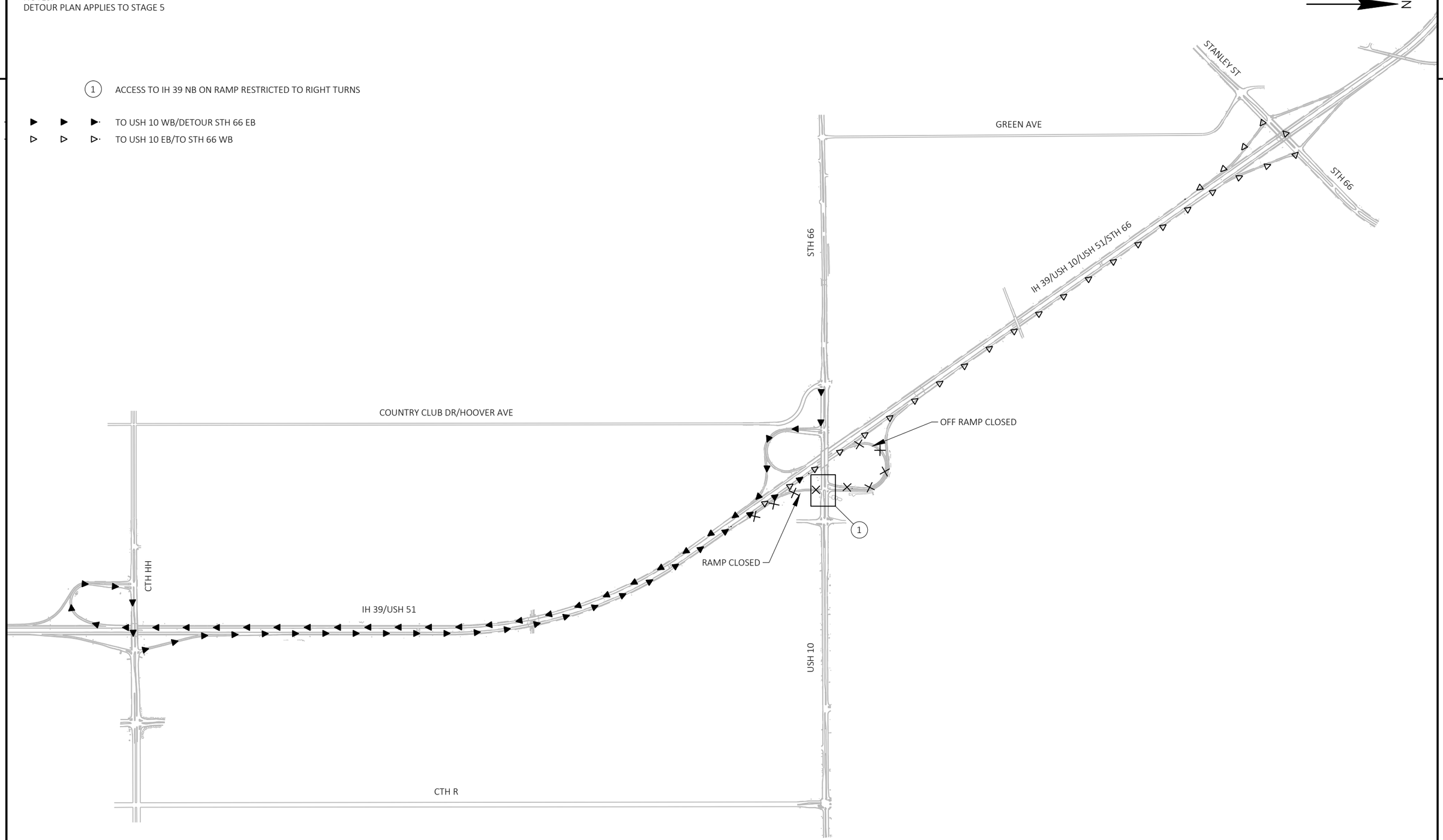
NOTES:
DETOUR PLAN APPLIES TO STAGE 5

N

(1) ACCESS TO IH 39 NB ON RAMP RESTRICTED TO RIGHT TURNS

TO USH 10 WB/DETOUR STH 66 EB

TO USH 10 EB/TO STH 66 WB



PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	DETOUR PLAN OVERVIEW - STAGE 5	SHEET 327	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\027004-DT.DWG
LAYOUT NAME - 01

PLOT DATE : 6/29/2021 3:31 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : Custom

WISDOT/CADDS SHEET 42

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, GUIDANCE SIGNING FOR ON-RAMP CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR OFF-RAMP CLOSURE

N

CTH HH/MCDILL AVE

MO4-5 24"X12" — TO / NORTH / INTERSTATE 39
MO4-8 24"X12" — TO / WEST / INTERSTATE 10
M3-2 24"X12" — DETOUR / EAST / 66
M1-6 24"X24"
MO5-1R 21"X21"

MO4-5 24"X12" — TO / NORTH / INTERSTATE 39 / 51
MO4-8 24"X12" — TO / WEST / INTERSTATE 10
M3-2 24"X12" — DETOUR / EAST / 66
M1-6 24"X24"
MO5-1L 21"X21"

MO4-5 36"X18" — TO / NORTH / INTERSTATE 39
MO4-8 36"X18" — TO / WEST / INTERSTATE 10
M3-2 36"X18" — DETOUR / EAST / 66
M1-6 24"X24"
MO6-2 30"X30" — EXIT 156 / HH / Whiting

IH 39 SB/US 51 SB

1180 1182 1184 1186 1188 1190 1192 1194 1196 1198 1200 1202 1204 1206 1208

IH 39 NB/US 51 NB

MO4-5 24"X12" — TO / NORTH / INTERSTATE 39 / 51

MO4-5 24"X12" — TO / WEST / INTERSTATE 10
M4-8 24"X12" — DETOUR / EAST / 66
M3-2 24"X12"
M1-6 24"X24"
MO6-1 21"X21"

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	DETOUR PLAN - STAGE 5	SHEET 328	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\027004-DT.DWG
LAYOUT NAME - 02
PLOT DATE : 6/29/2021 3:31 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, EXIT RAMP CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR ON-RAMP CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR OFF-RAMP CLOSURE

N

PC: 1230+83.93

IH 39 SB/USH 51 SB

1208 1210 1212 1214 1216 1218 1220 1222 1224 1226 1228 1230 1232 1234 1236 1238

IH 39 NB/USH 51 NB

COVER

Stevens Point Exits

10 EAST 66 WEST 1¼

66 EAST 2¾

BUS 51 Downtown 5

COVER

COVER

EXITS 158 A B

EAST 10 WEST 66

Stevens Point

Appleton

1 MILE

CLOSED

G20-61
120"X30"

MO4-5 36"X18" TO DETOUR M4-8 36"X18"

M3-4 36"X18" TO WEST EAST M3-2 36"X18"

NORTH INTERSTATE 39 NORTH 51 M1-4 36"X36" 10 66 M1-6 36"X36"

Waupaca

EXIT 158A

CLOSED

G20-61
120"X30"

EXIT 156

HH

Whiting

1 MILE

MO4-5 36"X18" TO TO DETOUR M4-8 36"X18"

NORTH WEST EAST M3-2 36"X18"

INTERSTATE 39 10 66 M1-6 36"X36"

MO5-2R 30"X30"

SOUTH INTERSTATE 39 SOUTH 51

P.I. 1265+41.04

1238 1240 1242 1244 1246 1248 1250 1252 1254 1256 1258 1260 1262 1264 1266 1268

IH 39 SB/USH 51 SB

IH 39 NB/USH 51 NB

M3-4 36"X18" WEST EAST M3-2 36"X18"

M1-6 36"X36" 66 10 M1-4 36"X36"

RAMP CLOSED AHEAD

W20-53A

M3-4 36"X18" WEST EAST M3-2 36"X18"

M1-6 36"X36" 66 10 M1-4 36"X36"

RAMP CLOSED 1000 FT

W20-53C

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	DETOUR PLAN - STAGE 5	SHEET 329	E

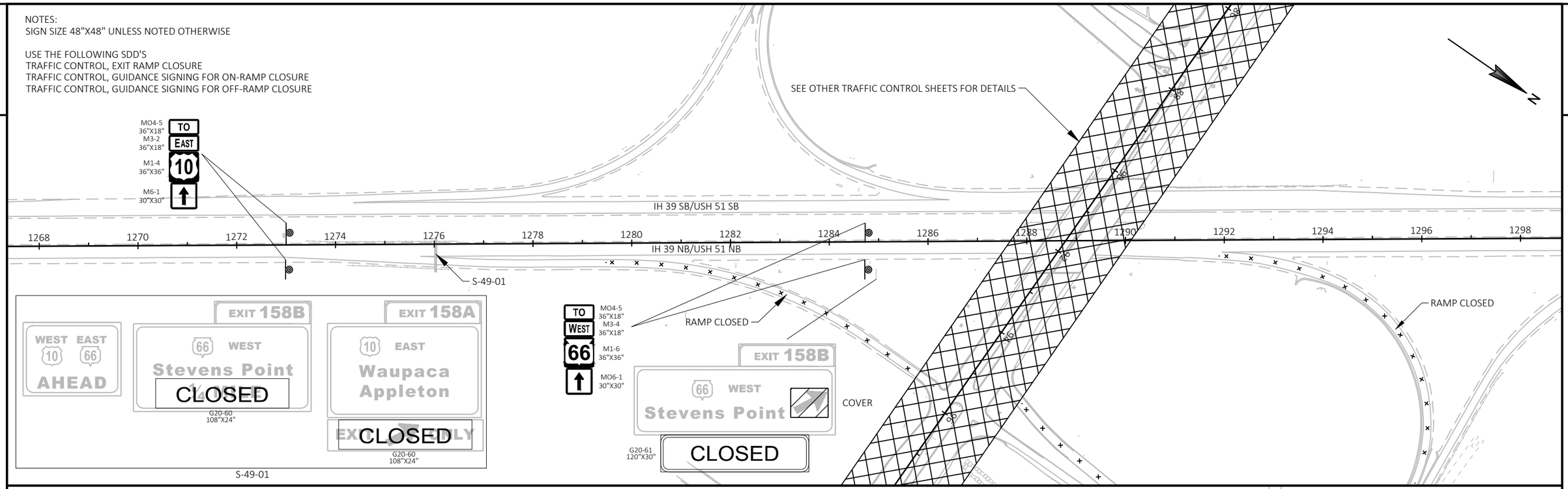
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\027004-DT.DWG
LAYOUT NAME - 03

PLOT DATE : 6/29/2021 3:31 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, EXIT RAMP CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR ON-RAMP CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR OFF-RAMP CLOSURE

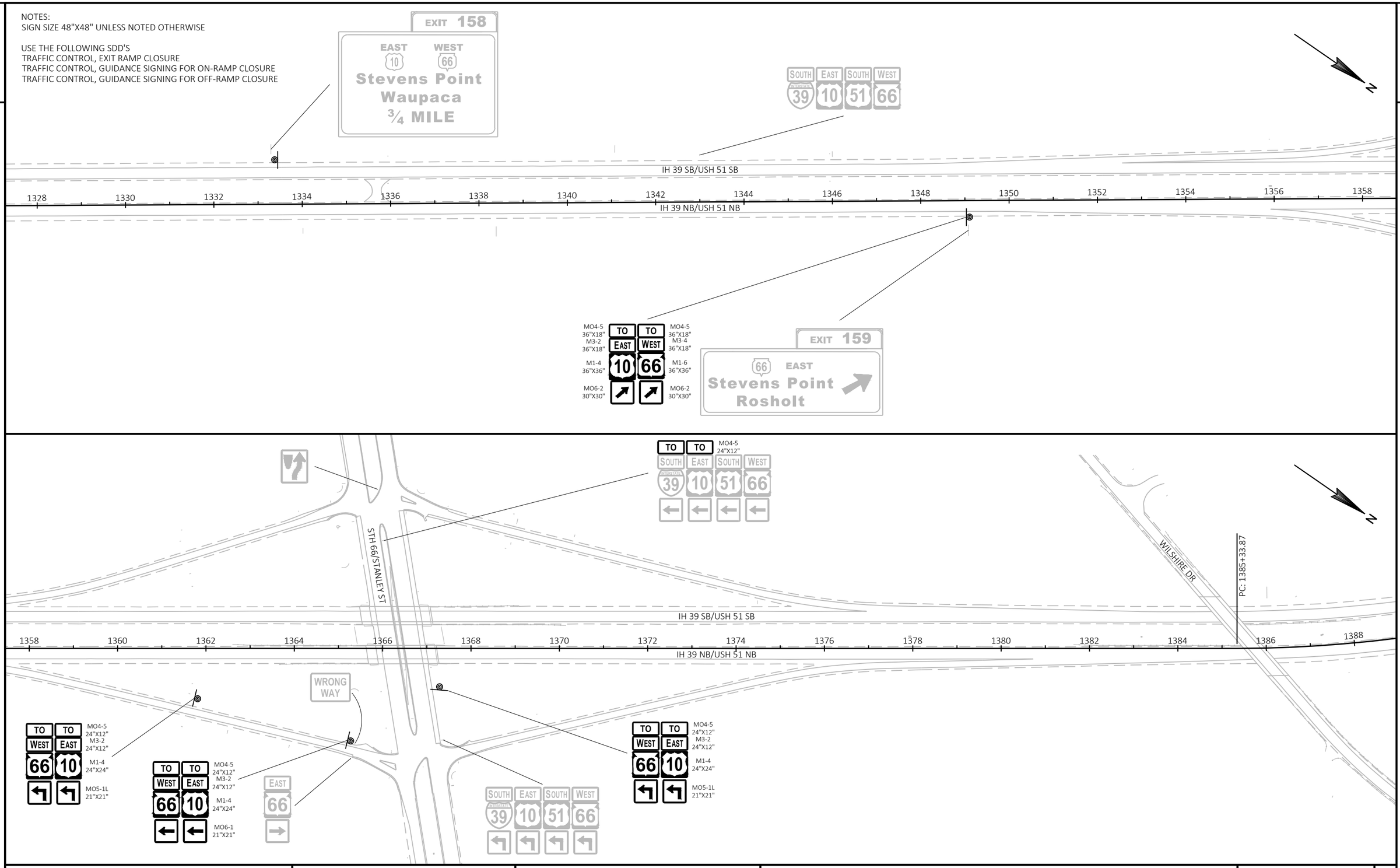


PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	DETOUR PLAN - STAGE 5	SHEET 330	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\027004-DT.DWG
LAYOUT NAME - 04
PLOT DATE : 6/29/2021 3:31 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

NOTES:
SIGN SIZE 48"X48" UNLESS NOTED OTHERWISE

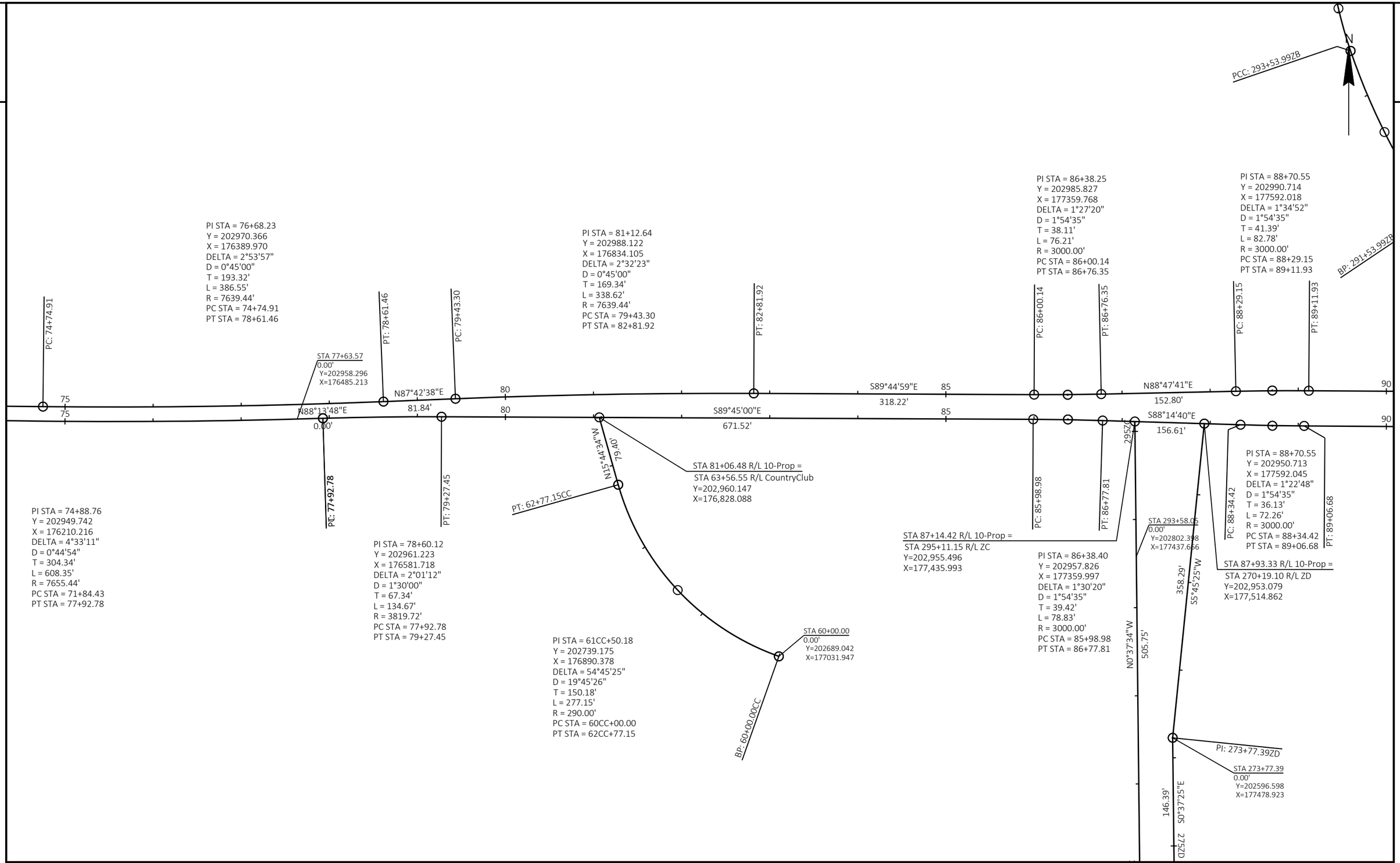
USE THE FOLLOWING SDD'S
TRAFFIC CONTROL, EXIT RAMP CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR ON-RAMP CLOSURE
TRAFFIC CONTROL, GUIDANCE SIGNING FOR OFF-RAMP CLOSURE



PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	DETOUR PLAN - STAGE 5	SHEET 331	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\027004-DT.DWG
LAYOUT NAME - 05
PLOT DATE : 6/29/2021 3:32 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

2



PROJECT NO: 1166-06-75/6290-09-70/71	HWY: USH 10/STH 66	COUNTY: PORTAGE	ALIGNMENT DIAGRAM	SHEET 332	E

2

N

PI STA = 292ZB+54.57
Y = 203280.961
X = 177713.451
DELTA = 15°00'00"
D = 7°30'00"
T = 100.58'
L = 200.00'
R = 763.94'
PC STA = 291ZB+53.99
PT STA = 293ZB+53.99

BP: 291+53.99ZB

PI STA = 307ZB+81.36
Y = 203164.181
X = 178238.822
DELTA = 13°00'00"
D = 12°43'57"
T = 51.27'
L = 102.10'
R = 450.00'
PC STA = 307ZB+30.09
PT STA = 308ZB+32.19

PC: 307+30.09ZB

PT: 308+32.19ZB

322.01'
S1°30'35"W

STA 94+71.24 R/L 66 WB Prop =
STA 309+65.06 R/L ZB-Prop
Y=202,985.914
X=178,192.687

PC: 93+99.33

PI STA = 94+44.28
Y = 202986.953
X = 178165.741
DELTA = 1°43'00"
D = 1°54'35"
T = 44.95'
L = 89.89'
R = 3000.00'
PC STA = 93+99.33
PT STA = 94+89.22

PT: 94+89.22

172.46'
S14°30'35"W

90
S89°37'28"E
487.39'

90
S89°37'28"E
487.54'

95 S87°54'28"E
95.27'

95 N88°27'52"E
93.88'

PI STA = 94+44.25
Y = 202946.952
X = 178165.741
DELTA = 1°54'40"
D = 1°54'35"
T = 50.04'
L = 100.07'
R = 3000.00'
PC STA = 93+94.21
PT STA = 94+94.28

PC: 93+94.21

PT: 94+94.28

310.28'

STA 94+61.28 R/L 10-Prop =
STA 310+04.65 R/L ZB-Prop
Y=202,947.590
X=178,182.769

PT: 285+07.44ZZ

285ZZ

EP: 287+10.96ZD

PI STA = 286ZD+11.54
Y = 202678.521
X = 177969.226
DELTA = 15°00'00"
D = 7°30'00"
T = 100.58'
L = 200.00'
R = 763.94'
PC STA = 285ZD+10.96
PT STA = 287ZD+10.96

PCC: 285+10.96ZD

285ZD

PCC: 284+10.96ZD

PI STA = 284ZD+61.15
Y = 202535.916
X = 178018.133
DELTA = 12°00'00"
D = 12°00'00"
T = 50.18'
L = 100.00'
R = 477.46'
PC STA = 284ZD+10.96
PT STA = 285ZD+10.96

PI STA = 283ZG+76.37
Y = 203034.804
X = 178313.717
DELTA = 83°47'09"
D = 38°11'50"
T = 134.55'
L = 219.35'
R = 150.00'
PC STA = 282ZG+41.82
PT STA = 284ZG+61.17

PT: 284ZG+61.17
STA 284+61.17
0.00'
Y=203169.315
X=178310.350

N1°26'02"W
586.50'
285ZG
N1°26'02"W
0.00'

STA 95+85.66 R/L 66 WB Prop =
STA 282+73.79 R/L ZA-Prop
Y=202,981.791
X=178,307.042

PC: 95+84.48

283ZG+00.00

PT: 96+83.22

PC: 282ZG+41.82

BP: 281ZG+42.84

STA 281+42.84
0.00'
Y=203015.342
X=178546.437

98.98'
N35°22'28"W

PI STA = 96+33.86
Y = 202980.031
X = 178355.203
DELTA = 1°53'09"
D = 1°54'35"
T = 49.38'
L = 98.74'
R = 3000.00'
PC STA = 95+84.48
PT STA = 96+83.22

PI STA = 96+33.77
Y = 202952.031
X = 178355.203
DELTA = 1°44'31"
D = 1°54'35"
T = 45.61'
L = 91.21'
R = 3000.00'
PC STA = 95+88.16
PT STA = 96+79.38

PC: 95+88.16

PT: 96+79.38

N0°17'09"E
209.49'

STA 95+86.37 R/L 10-Prop =
STA 282+42.75 R/L ZA-Prop
Y=202,950.761
X=178,307.818

STA 95+73.90 R/L 10-Prop =
STA 287+16.94 R/L ZZ
Y=202,950.426
X=178,295.348

PI STA = 282ZZ+54.28
Y = 202470.573
X = 178292.953
DELTA = 35°17'22"
D = 6°44'26"
T = 270.37'
L = 523.53'
R = 850.00'
PC STA = 279ZZ+83.91
PT STA = 285ZZ+07.44

N0°32'41"E
824.51'

25MB

S89°47'37"E
627.60'

100

S89°47'37"E
426.34'

PI: 22+19.43MB

N0°51'34"E
219.43'

BP: 20+00.00MB

STA 20+00.00
0.00'
Y=202731.300
X=178719.810

STA 100+02.02 R/L 66 WB Prop =
STA 22+47.43 R/L MapleBluff
Y=202,978.704
X=178,723.368

STA 100+01.85 R/L 66 WB Prop =
STA 22+19.43 R/L MapleBluff
Y=202,950.705
X=178,723.102

PC: 101+05.72

PI: 103+10.82

STA 103+10.82
0.00'
Y=202977.591
X=179032.171

PI STA = 102+58.33
Y = 202949.780
X = 178979.760
DELTA = 1°31'34"
D = 0°30'00"
T = 152.61'
L = 305.20'
R = 11458.96'
PC STA = 101+05.72
PT STA = 104+10.92

PT: 104+10.92

PI STA = 103+54.54
Y = 202977.434
X = 179075.889
DELTA = 0°26'14"
D = 0°30'00"
T = 43.72'
L = 87.43'
R = 11459.16'
PC STA = 103+10.82
PT STA = 103+98.26

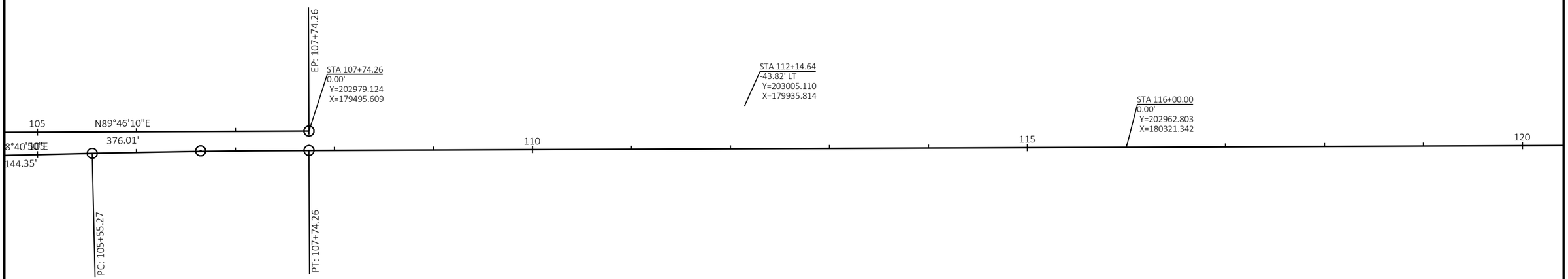
PT: 103+98.26

105
N88°40'50"E
144.35'

PROJECT NO: 1166-06-75/6290-09-70/71	HWY: USH 10/STH 66	COUNTY: PORTAGE	ALIGNMENT DIAGRAM	SHEET 333	E

2

N



PI STA = 106+64.77
Y = 202959.140
X = 179386.110
DELTA = 1°05'43"
D = 0°30'00"
T = 109.50'
L = 218.99'
R = 11457.21'
PC STA = 105+55.27
PT STA = 107+74.26

PROJECT NO: 1166-06-75/6290-09-70/71	HWY: USH 10/STH 66	COUNTY: PORTAGE	ALIGNMENT DIAGRAM	SHEET 334	E

2

N

PI STA = 286ZD+11.54
Y = 202678.521
X = 177969.226
DELTA = 15°00'00"
D = 7°30'00"
T = 100.58'
L = 200.00'
R = 763.94'
PC STA = 285ZD+10.96
PT STA = 287ZD+10.96

PI STA = 284ZD+61.15
Y = 202535.916
X = 178018.133
DELTA = 12°00'00"
D = 12°00'00"
T = 50.18'
L = 100.00'
R = 477.46'
PC STA = 284ZD+10.96
PT STA = 285ZD+10.96

PI STA = 282ZZ+54.28
Y = 202470.573
X = 178292.953
DELTA = 35°17'22"
D = 6°44'26"
T = 270.37'
L = 523.53'
R = 850.00'
PC STA = 279ZZ+83.91
PT STA = 285ZZ+07.44

PI: 273+77.39ZD

STA 273+77.39
0.00'
Y=202596.598
X=177478.923

146.39'
S0°37'25"E
273ZD

PC: 275+23.78ZD

PCC: 285+10.96ZD

285ZD

PCC: 284+10.96ZD

290ZC

PT: 290+05.40ZC

STA 290+05.40
0.00'
Y=202449.774
X=177441.519

PI STA = 278ZD+18.33
Y = 202155.685
X = 177483.723
DELTA = 94°22'53"
D = 20°59'59"
T = 294.54'
L = 449.44'
R = 272.84'
PC STA = 275ZD+23.78
PT STA = 279ZD+73.22

PI STA = 282ZD+55.38
Y = 202205.998
X = 178058.229
DELTA = 91°55'28"
D = 20°59'59"
T = 282.16'
L = 437.74'
R = 272.84'
PC STA = 279ZD+73.22
PT STA = 284ZD+10.96

PCC: 279+73.22ZD

280ZD

280ZZ

PC: 279+83.91ZZ

183.91'
N35°00'13"W

STA 278+00.00
0.00'
Y=202098.465
X=178553.541

BP: 278+00.00ZZ

PI STA = 288ZC+28.36
Y = 202113.162
X = 177445.198
DELTA = 94°22'44"
D = 18°22'24"
T = 336.63'
L = 513.67'
R = 311.84'
PC STA = 284ZC+91.73
PT STA = 290ZC+05.40

242.08'
S84°59'42"W

285ZC

PC: 284+91.73ZC

PT: 282+49.65ZC

280ZC

PI STA = 280ZC+63.57
Y = 202182.023
X = 178231.490
DELTA = 47°36'03"
D = 12°00'00"
T = 210.59'
L = 396.67'
R = 477.46'
PC STA = 278ZC+52.98
PT STA = 282ZC+49.65

PCC: 278+52.98ZC

PI STA = 277ZC+78.22
Y = 201988.566
X = 178441.903
DELTA = 11°15'00"
D = 7°30'00"
T = 75.24'
L = 150.00'
R = 763.94'
PC STA = 277ZC+02.98
PT STA = 278ZC+52.98

BP: 277+02.98ZC

PROJECT NO: 1166-06-75/6290-09-70/71	HWY: USH 10/STH 66	COUNTY: PORTAGE	ALIGNMENT DIAGRAM	SHEET 335	E

FILE NAME : \\WISRTOPFLPPI01\N3PUBLIC\PDS\C3D\11660605\SHEETSPLAN\027201-AD-Z.DWG
LAYOUT NAME - 04

PLOT DATE : 9/30/2020 1:11 PM PLOT BY : EVANS, TONY R PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

EP: 302+00.34ZA

PCC: 300+50.34ZA

PI STA = 301ZA+25.58
Y = 203998.998
X = 177221.118
DELTA = 11°15'00"
D = 7°30'00"
T = 75.24'
L = 150.00'
R = 763.94'
PC STA = 300ZA+50.34
PT STA = 302ZA+00.34

300ZA

PC: 296+53.67ZA

PT: 293+65.75ZA

PI STA = 291ZA+95.06
Y = 203868.224
X = 178147.359
DELTA = 65°44'19"
D = 16°49'26"
T = 220.06'
L = 390.74'
R = 340.56'
PC STA = 289ZA+75.00
PT STA = 293ZA+65.75

STA 295+03.59
0.00'
Y=203837.002
X=177790.818

287.92'

S84°59'43"W 295ZA

PI STA = 298ZA+64.26
Y = 203805.539
X = 177431.530
DELTA = 47°36'03"
D = 12°00'00"
T = 210.59'
L = 396.67'
R = 477.46'
PC STA = 296ZA+53.67
PT STA = 300ZA+50.34

300ZB

PI STA = 297ZB+65.85
Y = 203782.970
X = 177620.864
DELTA = 91°55'29"
D = 18°59'59"
T = 311.86'
L = 483.82'
R = 301.56'
PC STA = 294ZB+53.99
PT STA = 299ZB+37.81

STA 297+45.00
0.00'
Y=203735.138
X=177757.483

PCC: 299+37.81ZB

PI STA = 301ZB+12.34
Y = 203825.401
X = 178105.408
DELTA = 60°07'18"
D = 18°59'59"
T = 174.53'
L = 316.43'
R = 301.56'
PC STA = 299ZB+37.81
PT STA = 302ZB+54.24

290ZA

PCC: 289+75.00ZA

PCC: 302+54.24ZB

PI STA = 289ZA+03.60
Y = 203611.399
X = 178291.282
DELTA = 27°49'55"
D = 19°05'44"
T = 74.34'
L = 145.75'
R = 300.05'
PC STA = 288ZA+29.25
PT STA = 289ZA+75.00

PC: 288+29.25ZA

PI STA = 303ZB+33.86
Y = 203616.920
X = 178250.754
DELTA = 36°23'33"
D = 23°39'25"
T = 79.61'
L = 153.84'
R = 242.20'
PC STA = 302ZB+54.24
PT STA = 304ZB+08.08

PT: 304+08.08ZB

305ZB

295ZB

PI STA = 294ZB+04.17
Y = 203423.566
X = 177664.544
DELTA = 12°00'00"
D = 12°00'00"
T = 50.18'
L = 100.00'
R = 477.46'
PC STA = 293ZB+53.99
PT STA = 294ZB+53.99

PCC: 294+53.99ZB

EP: 3

PROJECT NO: 1166-06-75/6290-09-70/71	HWY: USH 10/STH 66	COUNTY: PORTAGE	ALIGNMENT DIAGRAM	SHEET 336	E

					1166-06-75	6290-09-70	6290-09-71
Line	Item	Item Description	Unit	Total	Qty	Qty	Qty
0002	201.0105	Clearing	STA	7.000	2.000	5.000	
0004	201.0110	Clearing	SY	142.000	142.000		
0006	201.0120	Clearing	ID	153.000		153.000	
0008	201.0205	Grubbing	STA	7.000	2.000	5.000	
0010	201.0210	Grubbing	SY	142.000	142.000		
0012	201.0220	Grubbing	ID	153.000		153.000	
0014	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000		
0016	203.0200	Removing Old Structure (station) 01. 91+42EB	LS	1.000	1.000		
0018	203.0210.S	Abatement of Asbestos Containing Material (structure) 01. B-49-24	LS	1.000	1.000		
0020	204.0100	Removing Concrete Pavement	SY	16,486.000	8,478.000	6,780.000	1,228.000
0022	204.0110	Removing Asphaltic Surface	SY	913.000	641.000	176.000	96.000
0024	204.0115	Removing Asphaltic Surface Butt Joints	SY	109.000	44.000	65.000	
0026	204.0120	Removing Asphaltic Surface Milling	SY	2,400.000	1,637.000	763.000	
0028	204.0150	Removing Curb & Gutter	LF	5,879.000	1,262.000	4,089.000	528.000
0030	204.0155	Removing Concrete Sidewalk	SY	1,340.000	555.000	664.000	121.000
0032	204.0157	Removing Concrete Barrier	LF	179.000	179.000		
0034	204.0165	Removing Guardrail	LF	743.000	254.000	489.000	
0036	204.0170	Removing Fence	LF	40.000	40.000		
0038	204.0195	Removing Concrete Bases	EACH	60.000		42.000	18.000
0040	204.0220	Removing Inlets	EACH	27.000	10.000	17.000	
0042	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	681.000	374.000	295.000	12.000
0044	204.0245	Removing Storm Sewer (size) 02. 15-Inch	LF	77.000	77.000		
0046	205.0100	Excavation Common	CY	11,151.000	2,812.000	7,226.000	1,113.000
0048	206.1000	Excavation for Structures Bridges (structure) 01. B-49-24	LS	1.000	1.000		
0050	208.0100	Borrow	CY	3,608.000	2,207.000	1,401.000	
0052	210.1500	Backfill Structure Type A	TON	660.000	660.000		
0054	213.0100	Finishing Roadway (project) 01. 1166-06-75	EACH	1.000	1.000		
0056	213.0100	Finishing Roadway (project) 02. 6290-09-70	EACH	1.000		1.000	
0058	213.0100	Finishing Roadway (project) 03. 6290-09-71	EACH	1.000			1.000
0060	305.0110	Base Aggregate Dense 3/4-Inch	TON	504.000	30.000	469.000	5.000
0062	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	11,813.000	4,339.000	6,467.000	1,007.000
0064	310.0110	Base Aggregate Open-Graded	TON	964.000		964.000	
0066	405.0100	Coloring Concrete WisDOT Red	CY	89.000	23.000	66.000	
0068	415.0090	Concrete Pavement 9-Inch	SY	576.000			576.000
0070	415.0100	Concrete Pavement 10-Inch	SY	2,200.000		2,200.000	
0072	415.0110	Concrete Pavement 11-Inch	SY	14,640.000	7,936.000	5,970.000	734.000
0074	415.0410	Concrete Pavement Approach Slab	SY	478.000	478.000		
0076	415.5110.S	Concrete Pavement Joint Layout 01. 1166-06-75	LS	1.000	1.000		
0078	415.5110.S	Concrete Pavement Joint Layout 02. 6290-09-70	LS	1.000		1.000	
0080	415.5110.S	Concrete Pavement Joint Layout 03. 6290-09-71	LS	1.000			1.000
0082	415.6000.S	Rout and Seal	LF	571.000	35.000	536.000	
0084	416.0160	Concrete Driveway 6-Inch	SY	47.000		47.000	
0086	416.0512	Concrete Truck Apron 12-Inch	SY	266.000	69.000	197.000	
0088	416.0610	Drilled Tie Bars	EACH	1,962.000	56.000	1,309.000	597.000
0090	416.0620	Drilled Dowel Bars	EACH	1,079.000	116.000	656.000	307.000
0092	416.1010	Concrete Surface Drains	CY	4.000		4.000	
0094	416.1710	Concrete Pavement Repair	SY	462.000	66.000	287.000	109.000
0096	416.1715	Concrete Pavement Repair SHES	SY	151.000		51.000	100.000
0098	416.1720	Concrete Pavement Replacement	SY	950.000		684.000	266.000
0100	465.0105	Asphaltic Surface	TON	453.000	175.000	278.000	
0102	465.0110	Asphaltic Surface Patching	TON	84.100		49.100	35.000
0104	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	20.000		20.000	
0106	465.0125	Asphaltic Surface Temporary	TON	1,770.000	769.000	929.000	72.000
0108	465.0315	Asphaltic Flumes	SY	91.000	57.000	34.000	

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Line	Item	Item Description	Unit	Total	Qty	Qty	Qty
0110	465.0400	Asphaltic Shoulder Rumble Strips	LF	3,683.000	3,683.000		
0112	502.0100	Concrete Masonry Bridges	CY	1,119.000	1,119.000		
0114	502.3101	Expansion Device 01. B-49-24	LF	240.000	240.000		
0116	502.3200	Protective Surface Treatment	SY	2,145.000	2,145.000		
0118	502.3210	Pigmented Surface Sealer	SY	700.000	700.000		
0120	502.4204	Adhesive Anchors No. 4 Bar	EACH	230.000	230.000		
0122	502.4205	Adhesive Anchors No. 5 Bar	EACH	1,332.000	1,332.000		
0124	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	204,810.000	204,810.000		
0126	506.0605	Structural Steel HS	LB	5,650.000	5,650.000		
0128	506.2610	Bearing Pads Elastomeric Laminated	EACH	24.000	24.000		
0130	506.7050.S	Removing Bearings (structure) 01. B-49-24	EACH	24.000	24.000		
0132	509.1500	Concrete Surface Repair	SF	100.000	100.000		
0134	509.9020.S	Epoxy Crack Sealing	LF	200.000	200.000		
0136	511.1200	Temporary Shoring (structure) 01. B-49-24	SF	480.000	480.000		
0138	516.0500	Rubberized Membrane Waterproofing	SY	44.000	44.000		
0140	517.0600	Painting Epoxy System (structure) 01. B-49-24	LS	1.000	1.000		
0142	517.0900.S	Preparation and Coating of Top Flanges (structure) 01. B-49-24	LS	1.000	1.000		
0144	517.1800.S	Structure Repainting Recycled Abrasive (structure) 01. B-49-24	LS	1.000	1.000		
0146	517.4500.S	Negative Pressure Containment and Collection of Waste Materials (structure) 01. B-49-24	LS	1.000	1.000		
0148	517.6001.S	Portable Decontamination Facility 01. B-49-24	EACH	1.000	1.000		
0150	520.8000	Concrete Collars for Pipe	EACH	15.000		13.000	2.000
0152	521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch	EACH	1.000	1.000		
0154	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	72.000	72.000		
0156	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	17.000	6.000	10.000	1.000
0158	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	2.000	2.000		
0160	524.0648	Apron Endwalls for Culvert Pipe Salvaged 48-Inch	EACH	1.000		1.000	
0162	531.2048	Drilling Shaft 48-Inch	LF	56.000		56.000	
0164	531.5340	Foundation Single-Shaft Type TC-IV (structure) 01. S-49-29	EACH	1.000		1.000	
0166	531.5340	Foundation Single-Shaft Type TC-IV (structure) 02. S-49-30	EACH	1.000		1.000	
0168	531.8990	Anchor Assemblies Poles on Structures	EACH	2.000	2.000		
0170	532.5340	Truss Cantilever 2-Chord Type IV (structure) 01. S-49-29	EACH	1.000		1.000	
0172	532.5340	Truss Cantilever 2-Chord Type IV (structure) 02. S-49-30	EACH	1.000		1.000	
0174	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	4,947.000	517.000	2,356.000	2,074.000
0176	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	3,921.000	1,234.000	2,426.000	261.000
0178	601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	LF	1,421.000	733.000	688.000	
0180	601.0582	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type T	LF	414.000	103.000	311.000	
0182	601.0590	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT	LF	78.000	78.000		
0184	601.0600	Concrete Curb Pedestrian	LF	16.000	16.000		
0186	602.0405	Concrete Sidewalk 4-Inch	SF	27,423.000	7,593.000	13,443.000	6,387.000
0188	602.0410	Concrete Sidewalk 5-Inch	SF	4,781.000	2,736.000	2,045.000	
0190	602.0415	Concrete Sidewalk 6-Inch	SF	6,225.000	6,225.000		
0192	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	364.000	112.000	106.000	146.000
0194	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	131.000	111.000	20.000	
0196	602.2400	Concrete Safety Islands	SF	1,777.000		1,082.000	695.000
0198	603.1142	Concrete Barrier Type S42	LF	932.000	932.000		
0200	603.8000	Concrete Barrier Temporary Precast Delivered	LF	2,216.000	2,216.000		
0202	603.8125	Concrete Barrier Temporary Precast Installed	LF	3,651.000	3,651.000		

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Line	Item	Item Description	Unit	Total	Qty	Qty	Qty
0204	603.8505	Anchoring Concrete Barrier Temporary Precast on Bridge Decks	LF	520.000	520.000		
0206	604.0500	Slope Paving Crushed Aggregate	SY	80.000	80.000		
0208	604.9015.S	Reseal Crushed Aggregate Slope Paving	SY	645.000	645.000		
0210	606.0300	Riprap Heavy	CY	31.000		31.000	
0212	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	959.000	326.000	503.000	130.000
0214	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	47.000		47.000	
0216	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	759.000	264.000	174.000	321.000
0218	608.2338	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 38x60-Inch	LF	7.000		7.000	
0220	611.0420	Reconstructing Manholes	EACH	1.000		1.000	
0222	611.0430	Reconstructing Inlets	EACH	1.000			1.000
0224	611.0530	Manhole Covers Type J	EACH	2.000			2.000
0226	611.0610	Inlet Covers Type BW	EACH	4.000	4.000		
0228	611.0624	Inlet Covers Type H	EACH	30.000	7.000	21.000	2.000
0230	611.0627	Inlet Covers Type HM	EACH	5.000	2.000	3.000	
0232	611.0652	Inlet Covers Type T	EACH	1.000		1.000	
0234	611.0666	Inlet Covers Type Z	EACH	16.000		8.000	8.000
0236	611.2003	Manholes 3-FT Diameter	EACH	2.000			2.000
0238	611.3003	Inlets 3-FT Diameter	EACH	16.000		8.000	8.000
0240	611.3004	Inlets 4-FT Diameter	EACH	12.000	6.000	4.000	2.000
0242	611.3225	Inlets 2x2.5-FT	EACH	4.000	3.000	1.000	
0244	611.3230	Inlets 2x3-FT	EACH	23.000	4.000	19.000	
0246	611.8115	Adjusting Inlet Covers	EACH	1.000		1.000	
0248	612.0212	Pipe Underdrain Unperforated 12-Inch	LF	93.000	93.000		
0250	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	370.000	370.000		
0252	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000		
0254	614.0395	Guardrail Mow Strip Concrete	SY	110.000	110.000		
0256	614.2300	MGS Guardrail 3	LF	509.500	87.500	422.000	
0258	614.2500	MGS Thrie Beam Transition	LF	80.000	80.000		
0260	614.2610	MGS Guardrail Terminal EAT	EACH	3.000	2.000	1.000	
0262	616.0204	Fence Chain Link 4-FT	LF	123.000	123.000		
0264	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1166-06-75	EACH	1.000	1.000		
0266	618.0100	Maintenance And Repair of Haul Roads (project) 02. 6290-09-70	EACH	1.000		1.000	
0268	618.0100	Maintenance And Repair of Haul Roads (project) 03. 6290-09-71	EACH	1.000			1.000
0270	619.1000	Mobilization	EACH	1.000	0.780	0.080	0.140
0272	620.0300	Concrete Median Sloped Nose	SF	1,152.000	382.000	625.000	145.000
0274	624.0100	Water	MGAL	186.200	59.600	111.500	15.100
0276	625.0100	Topsoil	SY	13,762.000	4,358.000	9,124.000	280.000
0278	628.1104	Erosion Bales	EACH	8.000		8.000	
0280	628.1504	Silt Fence	LF	871.000		871.000	
0282	628.1520	Silt Fence Maintenance	LF	871.000		871.000	
0284	628.1905	Mobilizations Erosion Control	EACH	10.000	4.000	4.000	2.000
0286	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	2.000	2.000	1.000
0288	628.2004	Erosion Mat Class I Type B	SY	11,965.000	4,264.000	7,701.000	
0290	628.2008	Erosion Mat Urban Class I Type B	SY	1,796.000	94.000	1,422.000	280.000
0292	628.7010	Inlet Protection Type B	EACH	6.000	5.000	1.000	
0294	628.7015	Inlet Protection Type C	EACH	72.000	10.000	47.000	15.000
0296	628.7504	Temporary Ditch Checks	LF	146.000	100.000	46.000	
0298	628.7555	Culvert Pipe Checks	EACH	8.000	6.000	2.000	
0300	629.0210	Fertilizer Type B	CWT	7.540	2.690	4.850	

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Line	Item	Item Description	Unit	Total	Qty	Qty	Qty
0302	630.0130	Seeding Mixture No. 30	LB	204.700	78.200	126.500	
0304	630.0140	Seeding Mixture No. 40	LB	44.400	1.700	37.700	5.000
0306	630.0500	Seed Water	MGAL	56.800	17.600	31.900	7.300
0308	633.5200	Markers Culvert End	EACH	21.000	9.000	11.000	1.000
0310	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	2.000			2.000
0312	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	21.000	9.000	10.000	2.000
0314	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	8.000	5.000	2.000	1.000
0316	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	8.000	7.000	1.000	
0318	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	5.000	2.000	3.000	
0320	634.0622	Posts Wood 4x6-Inch X 22-FT	EACH	1.000	1.000		
0322	634.0808	Posts Tubular Steel 2x2-Inch X 8-FT	EACH	10.000	6.000	3.000	1.000
0324	637.1220	Signs Type I Reflective SH	SF	208.300		208.300	
0326	637.2210	Signs Type II Reflective H	SF	895.640	461.270	309.520	124.850
0328	637.2230	Signs Type II Reflective F	SF	64.000	17.000	43.000	4.000
0330	638.2102	Moving Signs Type II	EACH	18.000	3.000	10.000	5.000
0332	638.2602	Removing Signs Type II	EACH	69.000	36.000	24.000	9.000
0334	638.3000	Removing Small Sign Supports	EACH	63.000	37.000	24.000	2.000
0336	642.5201	Field Office Type C	EACH	1.000			1.000
0338	643.0300	Traffic Control Drums	DAY	58,179.000	30,511.000	26,597.000	1,071.000
0340	643.0420	Traffic Control Barricades Type III	DAY	4,565.000	2,386.000	2,137.000	42.000
0342	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	181.000	111.000	70.000	
0344	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	181.000	111.000	70.000	
0346	643.0705	Traffic Control Warning Lights Type A	DAY	9,130.000	4,772.000	4,274.000	84.000
0348	643.0715	Traffic Control Warning Lights Type C	DAY	8,028.000	5,611.000	2,417.000	
0350	643.0800	Traffic Control Arrow Boards	DAY	201.000	194.000	7.000	
0352	643.0900	Traffic Control Signs	DAY	57,718.000	38,626.000	16,945.000	2,147.000
0354	643.0910	Traffic Control Covering Signs Type I	EACH	11.000	11.000		
0356	643.0920	Traffic Control Covering Signs Type II	EACH	19.000	14.000	5.000	
0358	643.1000	Traffic Control Signs Fixed Message	SF	127.500	5.000	73.500	49.000
0360	643.1051	Traffic Control Signs PCMS with Cellular Communications	DAY	74.000	39.000	35.000	
0362	643.5000	Traffic Control	EACH	1.000	0.500	0.150	0.350
0364	644.1430	Temporary Pedestrian Surface Plate	SF	90.000	30.000	30.000	30.000
0366	644.1601	Temporary Pedestrian Curb Ramp	DAY	125.000	25.000	70.000	30.000
0368	644.1810	Temporary Pedestrian Barricade	LF	4,429.000	2,769.000	1,288.000	372.000
0370	645.0111	Geotextile Type DF Schedule A	SY	280.000	280.000		
0372	645.0120	Geotextile Type HR	SY	101.000		101.000	
0374	646.1020	Marking Line Epoxy 4-Inch	LF	21,763.000	12,138.000	8,533.000	1,092.000
0376	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	2,631.000	15.000	2,616.000	
0378	646.1041.S	Marking Replace Line Wet Reflective Epoxy 4-Inch	LF	1,168.000	1,168.000		
0380	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	572.000	440.000	132.000	
0382	646.3020	Marking Line Epoxy 8-Inch	LF	3,660.000	1,292.000	1,511.000	857.000
0384	646.3041.S	Marking Replace Line Wet Reflective Epoxy 8-Inch	LF	50.000	50.000		
0386	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	1,764.000	1,105.000	659.000	
0388	646.5020	Marking Arrow Epoxy	EACH	51.000	7.000	29.000	15.000
0390	646.5120	Marking Word Epoxy	EACH	12.000	5.000	5.000	2.000
0392	646.6120	Marking Stop Line Epoxy 18-Inch	LF	558.000	206.000	196.000	156.000
0394	646.7120	Marking Diagonal Epoxy 12-Inch	LF	119.000	38.000	81.000	
0396	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	1,198.000	383.000	412.000	403.000
0398	646.8120	Marking Curb Epoxy	LF	250.000	129.000	51.000	70.000
0400	646.8220	Marking Island Nose Epoxy	EACH	9.000	3.000	3.000	3.000
0402	646.9000	Marking Removal Line 4-Inch	LF	40,428.000	39,156.000	1,272.000	
0404	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	2,938.000		2,938.000	
0406	646.9100	Marking Removal Line 8-Inch	LF	4,673.000	4,481.000	192.000	
0408	646.9110	Marking Removal Line Water Blasting 8-Inch	LF	438.000	105.000	333.000	
0410	646.9200	Marking Removal Line Wide	LF	453.000	378.000	63.000	12.000

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Line	Item	Item Description	Unit	Total	Qty	Qty	Qty
0412	646.9300	Marking Removal Special Marking	EACH	21.000	9.000	12.000	
0414	646.9310	Marking Removal Special Marking Water Blasting	EACH	1.000		1.000	
0416	649.0105	Temporary Marking Line Paint 4-Inch	LF	19,825.000	5,152.000	14,673.000	
0418	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	46,845.000	24,186.000	19,711.000	2,948.000
0420	649.0205	Temporary Marking Line Paint 8-Inch	LF	3,753.000	1,135.000	2,618.000	
0422	649.0250	Temporary Marking Line Removable Tape 8-Inch	LF	5,408.000	2,029.000	2,488.000	891.000
0424	649.0505	Temporary Marking Arrow Paint	EACH	4.000		2.000	2.000
0426	649.0550	Temporary Marking Arrow Removable Tape	EACH	11.000		8.000	3.000
0428	649.0805	Temporary Marking Stop Line Paint 18-Inch	LF	114.000		114.000	
0430	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	215.000		160.000	55.000
0432	649.0960	Temporary Marking Removable Mask Out Tape 6-Inch	LF	844.000	577.000		267.000
0434	649.0970	Temporary Marking Removable Mask Out Tape 10-Inch	LF	673.000	673.000		
0436	650.4000	Construction Staking Storm Sewer	EACH	69.000	20.000	39.000	10.000
0438	650.4500	Construction Staking Subgrade	LF	5,336.000	125.000	4,500.000	711.000
0440	650.5000	Construction Staking Base	LF	1,406.000		1,406.000	
0442	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	100.000		100.000	
0444	650.7000	Construction Staking Concrete Pavement	LF	6,033.000	2,080.000	3,242.000	711.000
0446	650.7500	Construction Staking Concrete Barrier	LF	932.000	932.000		
0448	650.8500	Construction Staking Electrical Installations (project) 01. 6290-09-70	LS	1.000		1.000	
0450	650.8500	Construction Staking Electrical Installations (project) 02. 6290-09-71	LS	1.000			1.000
0452	650.9000	Construction Staking Curb Ramps	EACH	18.000	8.000	4.000	6.000
0454	650.9920	Construction Staking Slope Stakes	LF	6,134.000	1,398.000	4,621.000	115.000
0456	652.0125	Conduit Rigid Metallic 2-Inch	LF	48.000	48.000		
0458	652.0210	Conduit Rigid Nonmetallic Schedule 40 1-Inch	LF	134.000	134.000		
0460	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	8,747.000	1,310.000	5,609.000	1,828.000
0462	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	3,676.000		3,154.000	522.000
0464	652.0605	Conduit Special 2-Inch	LF	570.000		530.000	40.000
0466	652.0615	Conduit Special 3-Inch	LF	2,040.000		1,046.000	994.000
0468	652.0700.S	Install Conduit into Existing Item	EACH	1.000		1.000	
0470	652.0800	Conduit Loop Detector	LF	5,230.000		4,008.000	1,222.000
0472	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	90.000		66.000	24.000
0474	653.0222	Junction Boxes 18x12x6-Inch	EACH	2.000	2.000		
0476	653.0905	Removing Pull Boxes	EACH	79.000		57.000	22.000
0478	654.0101	Concrete Bases Type 1	EACH	37.000		27.000	10.000
0480	654.0102	Concrete Bases Type 2	EACH	11.000		11.000	
0482	654.0105	Concrete Bases Type 5	EACH	9.000		9.000	
0484	654.0107	Concrete Bases Type 7	EACH	22.000		14.000	8.000
0486	654.0110	Concrete Bases Type 10	EACH	7.000		5.000	2.000
0488	654.0113	Concrete Bases Type 13	EACH	1.000		1.000	
0490	654.0120	Concrete Bases Type 10-Special	EACH	4.000		2.000	2.000
0492	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	4.000		3.000	1.000
0494	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000		1.000	
0496	655.0230	Cable Traffic Signal 5-14 AWG	LF	8,691.000		6,764.000	1,927.000
0498	655.0250	Cable Traffic Signal 9-14 AWG	LF	4,688.000		3,454.000	1,234.000
0500	655.0260	Cable Traffic Signal 12-14 AWG	LF	1,316.000		894.000	422.000
0502	655.0270	Cable Traffic Signal 15-14 AWG	LF	950.000		612.000	338.000
0504	655.0305	Cable Type UF 2-12 AWG Grounded	LF	10,445.000		9,415.000	1,030.000
0506	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	10,052.000		8,372.000	1,680.000
0508	655.0610	Electrical Wire Lighting 12 AWG	LF	9,477.000		7,209.000	2,268.000
0510	655.0620	Electrical Wire Lighting 8 AWG	LF	2,313.000			2,313.000
0512	655.0625	Electrical Wire Lighting 6 AWG	LF	9,714.000		4,860.000	4,854.000
0514	655.0630	Electrical Wire Lighting 4 AWG	LF	22,798.000		19,322.000	3,476.000
0516	655.0700	Loop Detector Lead In Cable	LF	15,432.000		11,988.000	3,444.000
0518	655.0800	Loop Detector Wire	LF	17,578.000		13,572.000	4,006.000

					1166-06-75	6290-09-70	6290-09-71
Line	Item	Item Description	Unit	Total	Qty	Qty	Qty
0520	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. S49-0590 USH 51 SB Ramp & USH 10/STH 66	LS	1.000		1.000	
0522	656.0200	Electrical Service Meter Breaker Pedestal (location) 02. S49-0589 USH 51 NB Ramp & USH 10/STH 66	LS	1.000		1.000	
0524	656.0200	Electrical Service Meter Breaker Pedestal (location) 03. S49-0464 USH 10 & Maple Bluff Rd/Old HWY 18	LS	1.000		1.000	
0526	656.0200	Electrical Service Meter Breaker Pedestal (location) 04. S49-0910 STH 66 & Country Club Dr	LS	1.000			1.000
0528	656.0200	Electrical Service Meter Breaker Pedestal (location) 05. Lighting Control Cabinet LC-K	LS	1.000		1.000	
0530	657.0100	Pedestal Bases	EACH	36.000		26.000	10.000
0532	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	22.000		22.000	
0534	657.0315	Poles Type 4	EACH	11.000		11.000	
0536	657.0322	Poles Type 5-Aluminum	EACH	9.000		9.000	
0538	657.0327	Poles Type 6-Aluminum	EACH	2.000		2.000	
0540	657.0347	Poles Type 9-Special	EACH	2.000		2.000	
0542	657.0350	Poles Type 10	EACH	2.000			2.000
0544	657.0351	Poles Type 10-Over Height	EACH	5.000		5.000	
0546	657.0352	Poles Type 10-Special	EACH	2.000			2.000
0548	657.0361	Poles Type 13-Over Height	EACH	1.000		1.000	
0550	657.0410	Traffic Signal Standards Aluminum 9-FT	EACH	4.000		3.000	1.000
0552	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	18.000		15.000	3.000
0554	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	14.000		8.000	6.000
0556	657.0525	Monotube Arms 25-FT	EACH	1.000		1.000	
0558	657.0530	Monotube Arms 30-FT	EACH	6.000		4.000	2.000
0560	657.0536	Monotube Arms 35-FT-Special	EACH	2.000			2.000
0562	657.0545	Monotube Arms 45-FT	EACH	1.000		1.000	
0564	657.0546	Monotube Arms 45-FT-Special	EACH	2.000		2.000	
0566	657.0609	Luminaire Arms Single Member 4-Inch Clamp 6-FT	EACH	8.000		8.000	
0568	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	9.000		9.000	
0570	657.0614	Luminaire Arms Single Member 4-Inch Clamp 8-FT	EACH	1.000		1.000	
0572	657.0615	Luminaire Arms Single Member 4 1/2-Inch Clamp 8-FT	EACH	2.000		2.000	
0574	657.0704	Luminaire Arms Truss Type 4-Inch Clamp 10-FT	EACH	1.000		1.000	
0576	657.0705	Luminaire Arms Truss Type 4 1/2-Inch Clamp 10-FT	EACH	2.000		2.000	
0578	657.0709	Luminaire Arms Truss Type 4-Inch Clamp 12-FT	EACH	1.000		1.000	
0580	657.0812	Luminaire Arms Steel 12-FT	EACH	10.000		6.000	4.000
0582	658.0173	Traffic Signal Face 3S 12-Inch	EACH	68.000		49.000	19.000
0584	658.0174	Traffic Signal Face 4S 12-Inch	EACH	25.000		16.000	9.000
0586	658.0416	Pedestrian Signal Face 16-Inch	EACH	24.000		16.000	8.000
0588	658.0500	Pedestrian Push Buttons	EACH	20.000		14.000	6.000
0590	658.5069	Signal Mounting Hardware (location) 01. S49-0590 IH 39 SB Ramp & USH 10/STH 66	LS	1.000		1.000	
0592	658.5069	Signal Mounting Hardware (location) 02. S49-0590 USH 10/STH 66 & IH 39 NB Ramps	LS	1.000		1.000	
0594	658.5069	Signal Mounting Hardware (location) 03. S49-0464 USH 10 & Maple Bluff Rd/Old HWY 18	LS	1.000		1.000	
0596	658.5069	Signal Mounting Hardware (location) 04. S49-0910 STH 66 & Country Club Dr	LS	1.000			1.000
0598	659.1125	Luminaires Utility LED C	EACH	32.000		28.000	4.000
0600	661.0200	Temporary Traffic Signals for Intersections (location) 01. USH 10 & Maple Bluff Rd	LS	1.000		1.000	
0602	661.0200	Temporary Traffic Signals for Intersections (location) 02. STH 66 & Country Club Dr	LS	1.000			1.000
0604	690.0150	Sawing Asphalt	LF	510.000	23.000	344.000	143.000
0606	690.0250	Sawing Concrete	LF	11,176.000	2,059.000	6,893.000	2,224.000
0608	715.0415	Incentive Strength Concrete Pavement	DOL	5,885.000	2,618.000	2,732.000	535.000
0610	715.0502	Incentive Strength Concrete Structures	DOL	6,714.000	6,714.000		

					1166-06-75	6290-09-70	6290-09-71
Line	Item	Item Description	Unit	Total	Qty	Qty	Qty
0612	715.0603	Incentive Strength Concrete Barrier	DOL	466.000	466.000		
0614	715.0710	Optimized Aggregate Gradation Incentive	DOL	24,450.000	11,250.000	11,400.000	1,800.000
0616	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,760.000	2,760.000		
0618	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,400.000	2,400.000		
0620	SPV.0030	Special 01. Fertilizer for Lawn Type Turf	CWT	1.140	0.060	0.900	0.180
0622	SPV.0045	Special 01. Temporary Detectable Warning Field	DAY	924.000	476.000	280.000	168.000
0624	SPV.0060	Special 01. Grading and Shaping Curb Ramps	EACH	3.000		1.000	2.000
0626	SPV.0060	Special 02. Inlet Connection to Existing Storm Sewer	EACH	7.000		7.000	
0628	SPV.0060	Special 03. Pipe Connection to Existing Storm Sewer	EACH	1.000		1.000	
0630	SPV.0060	Special 04. Precast Concrete Bearing Block	EACH	24.000	24.000		
0632	SPV.0060	Special 05. Lighting Control Cabinet Special	EACH	1.000		1.000	
0634	SPV.0060	Special 06. Remove, Salvage and Store Street Lighting Poles	EACH	21.000		15.000	6.000
0636	SPV.0060	Special 07. Remove, Salvage and Store Street Lighting Arms	EACH	37.000		25.000	12.000
0638	SPV.0060	Special 08. Remove, Salvage and Store Street Lighting Luminaires	EACH	37.000		25.000	12.000
0640	SPV.0060	Special 09. Install 30-FT Lighting Unit Twin 6-FT Arms with Transformer Base	EACH	2.000			2.000
0642	SPV.0060	Special 10. Install 34-FT Lighting Unit Single 10-FT Arm with Transformer Base	EACH	20.000		14.000	6.000
0644	SPV.0060	Special 11. Install Salvaged Luminaires	EACH	26.000		16.000	10.000
0646	SPV.0060	Special 12. Lighting Control Cabinet Modifications, Cabinet LC-J	EACH	1.000			1.000
0648	SPV.0060	Special 13. Lighting Control Cabinet Modifications, Cabinet LC-L	EACH	1.000		1.000	
0650	SPV.0075	Special 01. Street Sweeping	HRS	80.000	20.000	30.000	30.000
0652	SPV.0090	Special 01. Remove and Reinstall Existing Conductors	LF	302.000		302.000	
0654	SPV.0090	Special 02. Concrete Curb & Gutter 30-Inch Type A Modified	LF	1,162.000		1,162.000	
0656	SPV.0105	Special 01. Salvage Traffic Signals - S49-0590 IH 39 SB Ramp & USH 10/STH 66	LS	1.000		1.000	
0658	SPV.0105	Special 02. Salvage Traffic Signals - S49-0464 USH 10 & Maple Bluff Rd/Old HWY 18	LS	1.000		1.000	
0660	SPV.0105	Special 03. Salvage Traffic Signals - S49-0910 STH 66 & Country Club Dr	LS	1.000			1.000
0662	SPV.0105	Special 04. Temporary Vehicle Detection USH 10 & Maple Bluff Road	LS	1.000		1.000	
0664	SPV.0105	Special 05. Temporary Vehicle Detection STH 66 & Country Club Drive	LS	1.000			1.000
0666	SPV.0105	Special 06. Transport City Furnished Lighting Materials	LS	1.000			1.000
0668	SPV.0180	Special 01. Preparing Topsoil for Lawn Type Turf	SY	1,796.000	94.000	1,422.000	280.000

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

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CLEARING & GRUBBING

STATION	-	STATION	LOCATION	201.0105 CLEARING STATIONS	201.0205 GRUBBING STATIONS	201.0110 CLEARING SY	201.0210 GRUBBING SY	REMARKS
89+09	-	89+49	WB LT	---	---	142	142	OUTFALL
92+00	-	94+00	WB LT	2	2	---	---	
			TOTALS	2	2	142	142	

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	203.0100 EACH	REMARKS
96+65EB	LT & RT	2	36" RCPC
	TOTAL	2	

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REMOVING CONCRETE PAVEMENT

STATION	-	STATION	WIDTH FEET	204.0100 SY	REMARKS
85+75EB	-	90+25EB	24-36	1901	
85+64WB	-	89+90WB	24-36	1704	
92+25WB	-	97+00WB	24-36	1684	
92+63EB	-	97+00EB	24-36	1770	
293+58ZC	-	294+85ZC	VARIES	470	
270+43ZD	-	271+68ZD	VARIES	737	
286+25ZZ	-	286+92ZZ	VARIES	212	
			TOTAL	8478	

REMOVING CURB & GUTTER

STATION - STATION	LOCATION	204.0150 LF	REMARKS
85+75EB - 87+18EB	LT	145	STAGE 2
85+75WB - 87+18WB	RT	150	STAGE 2
87+63EB - 90+11EB	LT	264	STAGE 2
92+46EB - 95+27EB	LT	285	STAGE 2
93+88WB - 95+27WB	RT	138	STAGE 2
95+67EB - 97+00EB	LT	140	STAGE 2
95+67WB - 97+00WB	RT	140	STAGE 2
	TOTAL	1262	

REMOVING ASPHALTIC SURFACE

STATION - STATION	LOCATION	204.0110 SY	REMARKS
85+63 - 89+42	WB LT	421	SHOULDER
92+11 - 94+42	WB LT	220	SHOULDER
	TOTAL	641	

REMOVING CONCRETE SIDEWALK

STATION - STATION	LOCATION	204.0155 SY	REMARKS
85+75EB - 86+88EB	RT	55	SIDEWALK
86+98EB - 87+14EB	RT	17	ISLAND
88+40EB - 90+44EB	RT	112	SIDEWALK
89+15EB - 90+11EB	LT	57	MEDIAN
92+44EB - 93+36EB	LT	50	MEDIAN
92+75EB - 95+61EB	RT	153	SIDEWALK
96+00EB - 97+00EB	RT	46	SIDEWALK
294+67ZC - 294+84ZC	RT	20	MEDIAN
270+47ZD - 270+69ZD	LT	46	ISLAND
	TOTAL	555	

REMOVING GUARDRAIL

STATION - STATION	LOCATION	204.0165 LF	REMARKS
88+58EB - 89+52EB	RT	94	
92+26WB - 93+86WB	LT	160	
	TOTAL	254	

REMOVING ASPHALTIC SURFACE MILLING

STATION	-	STATION	LOCATION	204.0120 SY	REMARKS
1281+21	-	1292+02	NB LT	480	
1282+00	-	1286+90	NB RT	218	
1281+29	-	1284+96	SB LT	163	
1297+22	-	1300+21	SB LT	133	
1284+18	-	1298+64	SB RT	643	
			TOTAL	1637	

REMOVING FENCE

STATION	LOCATION	204.0170 LF	REMARKS
90+27EB	RT	20	6' CHAIN LINK
93+12EB	RT	20	6' CHAIN LINK
	TOTAL	40	

REMOVING CONCRETE BARRIER

STATION - STATION	LOCATION	204.0157 LF	REMARKS
89+49EB - 90+39EB	RT	90	
92+75EB - 93+64EB	RT	89	
	TOTAL	179	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

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EARTHWORK SUMMARY

STATION - STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CY	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (2)	UNEXPANDED FILL	EXPANDED FILL FACTOR 1.25	MASS ORDINATE +/- (3)	WASTE	208.0100 BORROW CY	COMMENT
85+50EB - 97+00EB	USH 10 EB	803	281	522	774	968	-446	0	446	
85+50WB - 97+00WB	USH 10 WB	511	131	380	1,713	2,141	-1,761	0	1,761	
293+50ZC - 294+50ZC	ZC	218	81	137	86	108	30	30	0	
270+75ZD - 272+00ZD	ZD	281	167	114	40	50	64	64	0	
285+00ZZ - 286+45ZZ	ZZ	89	19	70	28	35	35	35	0	
84+00EX - 87+19EX	MEDIAN	213	0	213	0	0	213	213	0	STAGE 2
87+62EX - 90+11EX	MEDIAN	80	0	80	0	0	80	80	0	STAGE 2
92+47EX - 95+26EX	MEDIAN	106	0	106	0	0	106	106	0	STAGE 2
95+66EX - 99+61EX	MEDIAN	284	39	245	0	0	245	245	0	STAGE 2
100+36EX - 103+60EX	MEDIAN	187	75	113	0	0	113	113	0	STAGE 2
22+71MB - 23+50MB	ISLAND	40	13	27	0	0	27	27	0	STAGE 2
	TOTALS	2,812	806	2,006	2,641	3,301	-1,295	911	2,207	

NOTES:

(1) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

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

(3) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

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REMOVING ASPHALTIC SURFACE BUTT JOINT

STATION	LOCATION	204.0115 SY	REMARKS
1281+21	NB LT	4	SHOULDER
1292+02	NB LT	4	SHOULDER
1282+00	NB RT	4	SHOULDER
1286+90	NB RT	4	SHOULDER
1281+29	SB LT	4	SHOULDER
1284+96	SB LT	4	SHOULDER
1297+22	SB LT	4	SHOULDER
1300+21	SB LT	4	SHOULDER
1284+18	SB RT	4	SHOULDER
1298+64	SB RT	4	SHOULDER
	TOTAL	44	

BASE AGGREGATE

STATION - STATION	LOCATION	305.0110 DENSE 3/4-INCH TON	THICKNESS IN	305.0120 DENSE 1 1/4-INCH TON	REMARKS
85+75 - 89+42	EB LT & RT	---	VARIES	1242	LANES AND SHOULDERS
89+42 - 89+82	EB LT & RT	---	6	43	APPROACH SLAB
85+64 - 89+71	WB LT & RT	---	VARIES	598	LANES AND SHOULDERS
89+71 - 90+12	WB LT & RT	---	6	42	APPROACH SLAB
92+42 - 92+83	EB LT & RT	---	6	42	APPROACH SLAB
92+83 - 97+00	EB LT & RT	---	VARIES	534	LANES AND SHOULDERS
92+72 - 93+13	WB LT & RT	---	6	41	APPROACH SLAB
93+13 - 97+00	WB LT & RT	---	VARIES	786	LANES AND SHOULDERS
95+98 - 97+00	EB LT	---	6	40	LEFT TURN LANE
293+58 - 294+83	ZC RT	---	6	24	RAMP LANE
293+58 - 294+83	ZC LT	15	6	164	RADIUS
270+47 - 271+68	ZD LT & RT	---	6	311	
286+25 - 286+90	ZZ	15	6	106	RAMP
85+75 - 294+37	EB RT	---	4	26	SIDEWALK
86+88 - 87+12	EB LT	---	4	6	SIDEWALK
86+95	EB RT	---	13	21	ISLAND
87+80	EB RT	---	13	29	ISLAND
87+64 - 90+10	EB LT	---	5	101	SIDEWALK
92+45 - 94+71	EB LT	---	5	109	SIDEWALK
94+71 - 95+14	EB LT	---	6	24	MEDIAN TRUCK APRON
94+61 - 95+60	EB RT	---	4	27	SIDEWALK
96+05 - 97+00	EB RT	---	4	24	SIDEWALK
	TOTALS	30		4339	

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REMOVING STORM SEWER (SIZE)

STATION - STATION	LOCATION	204.0245.01 12-INCH LF	204.0245.02 15-INCH LF	REMARKS
87+90WB	LT	75	---	INCLUDES ENDWALL
88+68EB	RT	34	---	INCLUDES ENDWALL
89+65EB	RT	56	---	INCLUDES ENDWALL
89+65EB - 89+95EB	LT	30	---	
92+54WB	LT	72	---	INCLUDES ENDWALL
92+54WB - 92+66 WB	RT	12	---	
93+70EB	RT	53	---	INCLUDES ENDWALL
92+54 - 92+66	MEDIAN	12	---	
94+14EB	LT & RT	---	77	INCLUDES ENDWALL
96+69EB - 96+88EB	LT	20	---	DISCHARGES TO 36" CULVERT
271+55ZD	LT	10	---	INCLUDES ENDWALL
	TOTAL	374	77	

REMOVING INLETS

STATION	LOCATION	204.0220 EACH	REMARKS
87+95WB	RT	1	CURB INLET
88+68EB	RT	1	CURB INLET
89+65EB	LT	1	CURB INLET
89+95WB	RT	1	CURB INLET
92+54WB	RT	1	CURB INLET
92+66EB	LT	1	CURB INLET
93+70EB	RT	1	CURB INLET
94+15EB	LT	1	MEDIAN INLET
96+88EB	LT	1	MEDIAN INLET
271+55ZD	LT	1	CURB INLET
	TOTAL	10	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

CONCRETE PAVEMENT 11-INCH

STATION	-	STATION	LOCATION	415.0110 SY	REMARKS
85+75	-	90+02	EB RT	1285	
85+75	-	87+15	EB RT	486	RIGHT TURN LANE
85+64	-	89+64	WB LT	1166	
86+45	-	88+08	WB RT	341	INTERSECTION
87+64	-	90+02	EB LT	163	LEFT TURN LANE
88+08	-	89+64	WB RT	190	LEFT TURN LANE
92+54	-	97+00	WB LT	1357	
92+54	-	95+16	WB LT	149	LEFT TURN LANE
92+90	-	97+00	EB RT	1217	
92+90	-	94+71	EB LT	220	LEFT TURN LANE
94+71	-	95+71	EB LT	215	INTERSECTION
293+58	-	294+83	ZC RT	252	
270+47	-	271+68	ZD LT	421	
270+47	-	271+68	ZD RT	256	
286+25	-	286+91	ZZ LT & RT	217	
			TOTAL	**7936**	

CONCRETE PAVEMENT REPAIR

STATION	-	STATION	LOCATION	416.1710 CONCRETE PAVEMENT REPAIR SY	*416.0610 DRILLED TIE BARS EACH	*416.0620 DRILLED DOWEL BARS EACH	*690.0250 SAWING CONCRETE LF	REMARKS
271+90	-	272+02	ZD LT	31.9	8	32	46	LOOP DETECTOR
271+90	-	272+02	ZD RT	14.6	8	16	72	LOOP DETECTOR
285+26	-	285+38	ZZ LT	19.0	0	16	30	LOOP DETECTOR
			TOTAL	**66**	**16**	**64**	**148**	

*SEE INDIVIDUAL ITEMS FOR ADDITIONAL QUANTITIES

CONCRETE PAVEMENT APPROCH SLAB

STATION	-	STATION	LOCATION	415.0410 SY	REMARKS
89+42	-	89+82	EB	122	
89+71	-	90+12	WB	119	
92+42	-	92+83	EB	120	
92+72	-	93+13	WB	117	
			TOTALS	**478**	

DRILLED DOWEL BARS

STATION	LOCATION	416.0620 EACH
85+64WB	LT	16
85+75EB	RT	24
293+58ZC	LT & RT	12
	TOTAL	52

*SEE CONCRETE PAVEMENT REPAIR FOR ADDITIONAL QUANTITIES

ROUT AND SEAL

STATION	-	STATION	LOCATION	415.6000.S LF	REMARKS
85+64	-	85+89	WB LT	35	
			TOTAL	**35**	

COLORING CONCRETE & CONCRETE TRUCK APRON

STATION	LOCATION	405.0100 COLORING CONCRETE WISDOT RED CY	416.0512 CONCRETE TRUCK APRON 12-INCH SY
95+00EB	MEDIAN	23	69
	TOTAL	**23**	**69**

DRILLED TIE BARS

STATION	-	STATION	LOCATION	416.0610 EACH
285+26	-	286+25	ZZ RT	40
			TOTAL	**40**

*SEE CONCRETE PAVEMENT REPAIR FOR ADDITIONAL QUANTITIES

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

3

STORM SEWER PIPE REINFORCED CONCRETE AND PIPE UNDERDRAIN

FROM		TO	608.0312 12-INCH CLASS III LF	608.0412 12-INCH CLASS IV LF	612.0212 PIPE UNDERDRAIN UNPERFORATED 12-INCH LF	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
4.1	-	4.2	25	---	---	1092.19	1091.26	0.0372
5.1	-	5.2	---	45	---	1094.25	1094.11	0.0031
5.2	-	5.3	---	10	---	1094.11	1094.07	0.0040
6.1	-	6.2	84	---	---	1094.72	1090.51	0.0501
7.1	-	BEND 1	---	---	9	1097.12	1096.94	0.0200
BEND 1	-	BEND 2	---	---	78	1096.94	1073.58	0.2995
BEND 2		7.2	---	---	6	1073.58	1073.47	0.0183
8.1	-	8.2	---	---	44	1097.83	1096.95	0.0200
8.2	-	8.3	---	12	---	1096.95	1096.80	0.0125
9.1	-	9.2	72	---	---	1096.67	1094.87	0.0250
9.2	-	9.3	56	---	---	1094.87	1093.49	0.0246
9.3	-	9.4	31	---	---	1093.49	1092.72	0.0248
10.1	-	10.2	---	95	---	1098.75	1097.32	0.0151
10.2	-	10.3	---	58	---	1097.32	1096.45	0.0150
10.3	-	10.4	58	---	---	1096.45	1093.25	0.0552
		TOTALS	**326**	**264**	**93**			

CROSS DRAINS

STATION	LOCATION	522.0130 CULVERT PIPE RC CLASS III 30-INCH LF	522.1030 APRON ENDWALLS FOR CULVERT PIPE RC 30-INCH EACH	633.5200* CULVERT MARKERS EACH	REMARKS
286+36ZZ	LT & RT	72	2	2	
	TOTAL	**72**	**2**	**2**	

ALL JOINTS SHALL BE TIED.

*SEE STORM SEWER STRUCTURES FOR ADDITIONAL QUANTITIES

3

ASPHALTIC SHOULDER RUMBLE STRIP

STATION		STATION	LOCATION	465.0400 LF
1281+21	-	1292+02	NB LT	1081
1282+00	-	1286+90	NB RT	490
1281+29	-	1284+96	SB LT	367
1297+22	-	1300+21	SB LT	299
1284+18	-	1298+64	SB RT	1446
			TOTAL	**3683**

ASPHALTIC FLUMES

STATION	LOCATION	465.0315 ASPHALTIC FLUMES SY	REMARKS
85+85WB	LT	17	
293+63ZC	LT	17	
286+25ZZ	RT	23	
	TOTAL	**57**	

ASPHALTIC SURFACE TEMPORARY

STATION		STATION	LOCATION	THICKNESS INCH	465.0125 TON	REMARKS
85+75	-	87+19	EB LT	3.5	72	STAGE 2
87+61	-	90+11	EB LT	3.5	49	STAGE 2
92+45	-	95+27	EB LT	3.5	64	STAGE 2
95+67	-	97+00	EB LT	3.5	76	STAGE 2
86+75	-	87+15	EB RT	3.5	17	STAGE 1
95+06	-	95+79	EB LT	VARIES	37	STAGE 3D
85+64	-	86+91	WB RT	3.5	12	STAGE 3F
87+20	-	96+75	WB RT	3.5	340	STAGE 3F
87+20	-	87+85	WB RT	VARIES	12	STAGE 3G
270+44	-	271+68	ZD RT	3.5	31	STAGE 3G
270+44	-	270+87	ZD LT	3.5	14	STAGE 3G
94+71	-	96+89	EB LT & RT	3.5	35	STAGE 4E
UNDISRIBUTED					10	
				TOTAL	769	

ASPHALTIC SURFACE

STATION		STATION	LOCATION	THICKNESS INCH	465.0105 TON	REMARKS
85+64	-	85+89	WB LT	4	7	SHOULDER
286+25	-	286+30	ZZ LT	4	1	SHOULDER
1281+21	-	1292+02	NB LT	1.75	49	BRIDGE PAINTING
1282+00	-	1286+90	NB RT	1.75	22	BRIDGE PAINTING
1281+29	-	1284+96	SB LT	1.75	17	BRIDGE PAINTING
1297+22	-	1300+21	SB LT	1.75	14	BRIDGE PAINTING
1284+18	-	1298+64	SB RT	1.75	65	BRIDGE PAINTING
				TOTAL	175	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	APRON ENDWALLS FOR CP 521.1012 STEEL 12-INCH EACH	APRON ENDWALLS FOR CP 522.1012 RC 12-INCH EACH	INLETS 611.3004 4-FT EACH	INLETS 611.3225 2X2.5-FT EACH	INLETS 611.3230 2X3-FT EACH	INLET COVERS 611.0610 TYPE BW EACH	INLET COVERS 611.0624 TYPE H EACH	INLET COVERS 611.0627 TYPE HM EACH	# 633.5200 MARKERS CULVERT END EACH	RIM ELEVATION	INVERT** ELEVATION	DEPTH*** FT
4.1	86+50.00WB	27.5' LT	---	---	---	---	1	---	1	---	---	1098.35	1092.19	5.33
4.2	86+50.00WB	52.3' LT	---	1	---	---	---	---	---	---	1	---	1092.43	---
5.1	271+50.06ZD	19.5' RT	---	---	---	---	1	---	1	---	---	1097.25	1094.25	2.17
5.2	271+50.07ZD	25.5' LT	---	---	---	---	1	---	1	---	---	1096.70	1094.11	1.75
5.3	271+50.06ZD	35.9' LT	---	1	---	---	---	---	---	---	1	---	1095.24	---
6.1	87+71.49EB	7' LT	---	---	---	1	---	1	---	---	---	1099.72	1094.72	3.83
6.2	87+75.51WB	55.92' LT	---	1	---	---	---	---	---	---	1	---	1091.68	---
7.1	89+40.00WB	27.5' LT	---	---	1	---	---	---	1	---	---	1100.01	1097.12	1.90
7.2	89+15.43WB	117.41' LT	1	---	---	---	---	---	---	---	1	---	1074.47	---
8.1	89+83.02EB	16' LT	---	---	---	1	---	1	---	---	---	1100.84	1097.83	1.84
8.2	89+83.02EB	27.5' RT	---	---	---	---	1	---	---	1	---	1099.96	1096.95	2.17
8.3	89+83.65EB	39.30' RT	---	1	---	---	---	---	---	---	1	---	1097.96	---
9.1	93+12.61EB	27.5' RT	---	---	1	---	---	---	1	---	---	1100.99	1096.67	3.48
9.2	92+54.65EB	16' LT	---	---	1	---	---	1	---	---	---	1100.87	1094.87	4.83
9.3	92+71.82WB	27.6' LT	---	---	1	---	---	---	---	1	---	1101.09	1093.49	6.77
9.4	92+71.82WB	58.69' LT	---	1	---	---	---	---	---	---	1	---	1093.89	---
10.1	95+58.30EB	27.5' RT	---	---	---	1	---	---	1	---	---	1101.75	1098.75	1.83
10.2	94+73.37EB	26' LT	---	---	1	---	---	1	---	---	---	1101.18	1097.32	3.03
10.3	95+68.88EB	29' LT	---	---	1	---	---	---	1	---	---	1100.61	1096.45	3.32
10.4	95+22.81EB	72.89' RT	---	1	---	---	---	---	---	---	1	---	1094.42	---
		TOTALS	**1**	**6**	**6**	**3**	**4**	**4**	**7**	**2**	**7**			

SEE CROSS DRAINS FOR ADDITIONAL QUANTITIES

* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

** FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE

*** DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6 -INCH ADJUSTMENT RING HEIGHT

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

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CONCRETE CURB & GUTTER

STATION - STATION	LOCATION	601.0405 18-INCH TYPE A LF	601.0409 30-INCH TYPE A LF	601.0555 6-INCH SLOPED 36-INCH TYPE A LF	601.0582 4-INCH SLOPED 36-INCH TYPE T LF	601.0590 4-INCH SLOPED 36-INCH TYPE TBTT LF	REMARKS
85+75EB - 87+23EB	MEDIAN	285	---	---	---	---	INCLUDES WB
85+75EB - 87+13EB	EB RT	---	---	192	---	---	RIGHT TURN RADIUS
86+77EB - 87+10EB	EB RT	---	66	---	19	---	ISLAND
88+70EB - 90+26EB	EB RT	---	---	118	---	39	
85+89WB - 89+77WB	WB LT	---	339	50	---	---	
92+28WB - 94+02WB	WB LT	---	---	134	---	39	
93+05EB - 95+65EB	EB RT	---	261	---	---	---	
94+71EB - 95+21EB	MEDIAN	---	---	---	84	---	INCLUDES WB
95+43EB - 97+00EB	MEDIAN	232	91	---	---	---	INCLUDES WB
96+35EB - 97+00EB	RT	---	62	---	---	---	
293+58ZC - 294+82ZC	RT	---	124	---	---	---	
270+50ZD - 270+88ZD	RT	---	110	---	---	---	ISLAND
270+50ZD - 271+68ZD	RT	---	123	---	---	---	
270+46ZD - 271+68ZD	LT	---	---	149	---	---	
286+31ZZ - 286+88ZZ	LT & RT	---	58	90	---	---	
	TOTAL	517	1234	733	103	78	

CONCRETE BARRIER TYPE S42

STATION	-	STATION	LOCATION	603.1142 LF	REMARKS
87+64	-	90+14	EB LT	251	
87+84	-	90+06	WB RT	222	
92+49	-	94+61	EB LT	210	
92+41	-	94+89	WB RT	249	
			TOTALS	932	

MGS GUARDRAIL

STATION - STATION	LOCATION	614.0395 GUARDRAIL MOW STRIP CONCRETE SY	614.2300 MGS GUARDRAIL 3 EACH	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT LF	REMARKS
88+58 - 89+51	RT	43	25	40	1	B-49-24
92+28 - 93+85	LT	67	62.5	40	1	B-49-24
	TOTAL	110	87.5	80	2	

CONCRETE SIDEWALK

STATION - STATION	LOCATION	602.0405 4-INCH SF	602.0410 5-INCH SF	602.0415 6-INCH SF	601.0600 CONCRETE CURB PEDESTRIAN LF
85+75EB - 86+87EB	MEDIAN	2500	---	---	---
85+75EB - 86+74EB	EB RT	462	781	---	16
86+81EB - 87+07EB	EB RT	---	246	---	---
86+87EB - 87+12EB	MEDIAN	82	148	---	---
87+64EB - 90+10EB	MEDIAN	---	---	2996	---
92+41EB - 94+71EB	MEDIAN	---	---	3229	---
95+50EB - 97+00EB	MEDIAN	3027	---	---	---
94+62EB - 95+63EB	EB RT	465	833	---	---
96+02EB - 97+00EB	EB RT	---	728	---	---
294+32ZC - 294+75ZC	MEDIAN	710	---	---	---
270+50ZD - 270+88ZD	RT	347	---	---	---
	TOTAL	7593	2736	6225	16

CURB RAMP DETECTABLE WARNING FIELD

STATION	LOCATION	602.0505 YELLOW SF	602.0605 RADIAL YELLOW SF	REMARKS
86+71EB	RT	16	---	
86+93EB	RT	32	---	ISLAND
86+93EB	LT	16	---	MEDIAN
87+00EB	LT	---	34	MEDIAN
87+75EB	LT	---	44	MEDIAN
94+65EB	LT	16	---	MEDIAN
94+65EB	RT	16	---	
95+60EB	RT	16	---	
96+09EB	RT	---	33	
	TOTAL	112	111	

CONCRETE MEDIAN SLOPED NOSE

STATION	LOCATION	620.0300 SF	REMARKS
86+78EB	RT	15	TYPE 2
87+13EB	LT	15	TYPE 2 2'
95+18WB	RT	64	TYPE 2
95+48EB	LT	65	TYPE 2
294+63ZC	LT	27	TYPE 2 3'
294+77ZC	RT	61	TYPE 1
294+80ZC	LT	30	TYPE 2 3'
270+50ZD	RT	20	TYPE 2
270+50ZD	RT	15	TYPE 2
270+92ZD	RT	42	TYPE 1
286+86ZZ	LT	28	TYPE 1 2'
	TOTAL	382	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

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TOPSOIL, SEED, FERTILIZER AND EROSION MAT

STATION - STATION	LOCATION	625.0100 TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE #30 LB	630.0140 SEEDING MIXTURE #40 LB	628.2008 URBAN CLASS I TYPE B SY	628.2004 CLASS I TYPE B SY	SPV.0030.01 FERTILIZER FOR LAWN TYPE TURF CWT	SPV.0180.01 PREPARING TOPSOIL FOR LAWN TYPE TURF SY	REMARKS
85+75EB - 87+13EB	RT	431	0.27	7.8	---	---	431	---	---	RADIUS
85+64WB - 89+46WB	LT	1070	0.67	19.3	---	---	1070	---	---	
88+70EB - 90+26EB	RT	322	0.20	5.8	---	---	322	---	---	
92+27WB - 94+01WB	LT	721	0.45	13.0	---	---	721	---	---	
93+04EB - 95+63EB	RT	584	0.37	10.5	---	---	584	---	---	INCLUDES RADIUS
94+62EB - 95+63EB	RT	52	---	---	0.9	52	---	0.03	52	TERRACE
95+80EB - 97+00EB	RT	429	0.27	7.7	---	---	429	---	---	INCLUDES RADIUS
96+16EB - 97+00EB	RT	42	---	---	0.8	42	---	0.03	42	TERRACE
270+48ZD - 271+68ZD	LT	218	0.14	3.9	---	---	218	---	---	INCLUDES RADIUS
270+57ZD - 271+68ZD	RT	207	0.13	3.7	---	---	207	---	---	MEDIAN
285+85ZZ - 286+47ZZ	LT	283	0.18	5.1	---	---	283	---	---	
	TOTAL	4358	2.69	76.8	1.7	94	4264	0.06	94	

TEMPORARY DITCH CHECKS

STATION	LOCATION	628.7504 LF	REMARKS
293+50ZC	LT	15	STAGE 1
271+77ZD	LT	15	STAGE 4
286+00ZZ	RT	30	STAGE 4
286+14ZZ	LT	40	STAGE 4
	TOTAL	**100**	

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MOBILIZATIONS EROSION CONTROL

STATION - STATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	REMARKS
85+75EB - 97+00EB	4	2	STAGE 1, 3, 4, 5
TOTALS	**4**	**2**	

WATER

STATION - STATION	LOCATION	624.0100 MGAL
UNDISTRIBUTED		59.6
	TOTAL	**59.6**

INLET PROTECTION

STATION	LOCATION	628.7010 TYPE B EACH	628.7015 TYPE C EACH
86+50WB	LT	---	1
87+72EB	LT	1	---
88+67EB	RT	---	1
89+40WB	LT	---	1
89+83EB	LT & RT	1	1
92+55EB	LT	1	---
92+72WB	LT	---	1
93+13EB	RT	---	1
93+68EB	RT	---	1
94+73EB	LT	1	---
95+59EB	RT	---	1
95+68WB	RT	---	1
273+06ZD	LT & RT	1	1
	TOTALS	**5**	**10**

SEED WATER

STATION - STATION	LOCATION	WEEKS	630.0500 MGAL	REMARKS
UNDISTRIBUTED		4	17.6	
	TOTAL		**17.6**	

CULVERT PIPE CHECKS

STATION	LOCATION	628.7555 EACH
88+65WB	LT	2
286+44ZZ	RT	4
	TOTAL	**6**

FENCE CHAIN LINK 4-FT

STATION - STATION	LOCATION	616.0204 LF	REMARKS
88+66WB - 89+76WB	WB LT	123	
	TOTAL	**123**	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

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SIGNS TYPE II

SIGN NO.	SIGN CODE	MESSAGE	SIZE	634.0808 POSTS TUBULAR STEEL 2X2-INCH X 8-FT EACH	POSTS WOOD 4X6-INCH 634.0614 14-FT EACH	634.0616 16-FT EACH	634.0618 18-FT EACH	634.0620 20-FT EACH	634.0622 22-FT EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF	637.2210 SIGNS TYPE II REFLECTIVE H SF	638.2102 MOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.2602 REMOVING SIGNS TYPE II EACH	REMARKS
2-05	---	COUNTRY CLUB DR ARROW	---	---	---	---	---	---	---	---	---	---	2	1	REMOVE
2-06	---	NO PARKING ANYTIME	---	---	---	---	---	---	---	---	---	1	---	---	MOVE
2-07	R3-20L	BEGIN LEFT TURN LANE	24"X36"	---	1	---	---	---	---	---	6.00	---	---	---	
2-08	JV	SOUTH, IH 39, USH 51, LEFT ARROW	24"X81	---	---	---	1	---	---	---	13.50	---	---	---	
2-09	R4-7	KEEP RIGHT SYMBOL	24"X30"	---	---	---	---	---	---	---	5.00	---	---	---	ON SIGNAL POLE
2-10	R3-4	NO U-TURN SYMBOL	24"X24"	---	---	---	---	---	---	---	4.00	---	---	---	ON SIGNAL POLE
2-11	---	SOUTH 39 51 LT ARROW	---	---	---	---	---	---	---	---	---	---	1	1	REMOVE
2-12	---	KEEP RIGHT	---	---	---	---	---	---	---	---	---	---	---	1	ON SIGNAL POLE
2-13	---	NO U TURN	---	---	---	---	---	---	---	---	---	---	---	---	SAME SIGNAL POLE AS 2-12
2-14	---	STOP	---	---	---	---	---	---	---	---	---	---	---	1	ON SIGNAL POLE
2-15	J3-1	WEST 66 LEFT ARROW	24"X57"	---	---	1	---	---	---	---	9.50	---	1	1	
2-16	D1-70	SOUTH 39 51 MADISON	72"X42"	---	---	1	1	---	---	---	21.00	---	---	---	
2-17	---	SOUTH 39 51 WEST 66 ARROWS	---	---	---	---	---	---	---	---	---	---	2	1	REMOVE
2-18	R1-1F	STOP	36"X36"	---	---	---	---	---	---	---	7.46	---	---	1	ON SIGNAL POLE
2-19	---	STOP	---	---	---	---	---	---	---	---	---	---	---	1	ON SIGNAL POLE
2-20	R1-1F	STOP	36"X36"	---	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
2-21	R11-54F	RAMP CLOSED USE ALT ROUTE	48"X30"	1	---	---	---	---	---	---	10.00	---	---	---	BARRIER WALL
2-22	---	WIS RAPIDS, PORTAGE	---	---	---	---	---	---	---	---	---	---	2	1	REMOVE
2-24	D1-71	NORTH 39 51 WAUSAU SOUTH 39 51 MADISON	72"X84"	---	---	---	---	1	1	---	42.00	---	---	---	
2-25	---	SOUTH 39 51 RT ARROW	---	---	---	---	---	---	---	---	---	---	1	1	REMOVE
2-26	R1-1F	STOP	36"X36"	---	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
2-27	R1-1F	STOP	36"X36"	---	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
2-28	W12-1D	DOUBLE DIAGONAL ARROW	24"X24"	1	---	---	---	---	---	4.00	---	---	---	---	
2-29	R1-2	YIELD	48"42"	---	---	---	---	---	---	---	7.00	---	---	---	ON LIGHT POLE
2-30	---	YIELD	---	---	---	---	---	---	---	---	---	---	1	1	REMOVE
2-31	---	DOUBLE DIAGONAL ARROW	---	---	---	---	---	---	---	---	---	---	1	1	REMOVE
2-32	---	STOP	---	---	---	---	---	---	---	---	---	---	---	1	ON SIGNAL POLE
2-33	R4-7	KEEP RIGHT	24"X30"	---	1	---	---	---	---	---	5.00	---	1	1	
2-34	---	RAMP CLOSED USE ALT ROUTE	---	---	---	---	---	---	---	---	---	---	1	1	REMOVE
2-35	---	DO NOT ENTER	---	---	---	---	---	---	---	---	---	---	1	1	REMOVE
2-36	---	DO NOT ENTER	---	---	---	---	---	---	---	---	---	---	1	1	REMOVE
2-37	W12-1D	DOUBLE DIAGONAL ARROW	24"X24"	1	---	---	---	---	---	4.00	---	---	1	1	
2-38	R1-1F	STOP	36"X36"	---	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
2-39	R6-3A	DIVIDED HIGHWAY CROSSING	30"X24"	---	---	---	---	---	---	---	5.00	---	---	---	SAME SIGNAL POLE AS 2-38
2-40	---	STOP	---	---	---	---	---	---	---	---	---	---	---	1	REMOVE
2-41	R1-1F	STOP	36"X36"	---	---	---	---	---	---	---	7.46	---	---	1	ON SIGNAL POLE
2-42	R5-1	DO NOT ENTER	36"X36"	---	1	---	---	---	---	---	9.00	---	---	---	
2-43	R3-20L	BEGIN LEFT TURN LANE	24"X36"	1	---	---	---	---	---	---	6.00	---	---	---	BARRIER WALL
2-44	J3-4	NORTH 39 WEST 10 NORTH 51 EAST 66	96"X57"	---	---	---	1	1	---	---	38.00	---	2	1	
			SUBTOTAL	**4**	**3**	**2**	**3**	**2**	**1**	**8.00**	**225.76**	**1**	**18**	**21**	

CONTINUED ON NEXT PAGE

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

3

3

SIGNS TYPE II

SIGN NO.	SIGN CODE	MESSAGE	SIZE	634.0808 POSTS TUBULAR STEEL 2X2-INCH X 8-FT EACH	POSTS WOOD 4X6-INCH 634.0614 14-FT EACH	634.0616 16-FT EACH	634.0618 18-FT EACH	634.0620 20-FT EACH	634.0622 22-FT EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF	637.2210 SIGNS TYPE II REFLECTIVE H SF	638.2102 MOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.2602 REMOVING SIGNS TYPE II EACH	REMARKS
3-01	---	SPEED LIMIT 40, NO PARKING ANYTIME	---	---	---	---	---	---	---	---	---	1	---	---	MOVE
3-02	JV	SOUTH 39 51 LT ARROW	24"X81"	---	---	---	1	---	---	---	13.50	---	1	1	
3-03	R6-2R	ONE WAY RIGHT ARROW	30"X36"	---	---	---	---	---	---	---	7.50	---	---	---	ON SIGNAL POLE
3-04	J3-1	WEST 66 RIGHT ARROW	24"X57"	1	---	---	---	---	---	---	9.50	---	---	---	BARRIER WALL
3-05	R10-11B	NO TURN ON RED	24"X24"	---	---	---	---	---	---	---	4.00	---	---	---	ON SIGNAL POLE
3-06	---	ONE WAY	---	---	---	---	---	---	---	---	---	---	1	1	REMOVE
3-07	---	WEST 66 RIGHT ARROW	---	---	---	---	---	---	---	---	---	---	1	1	REMOVE
3-20	---	NO PARKING ANYTIME	---	---	---	---	---	---	---	---	---	1	---	---	MOVE
3-21	R11-54F	RAMP CLOSED USE ALT ROUTE	48"X30"	1	---	---	---	---	---	---	10.00	---	---	---	BARRIER WALL
3-22	---	SIGNAL AHEAD	---	---	---	---	---	---	---	---	---	---	1	1	REMOVE
3-23	---	MARSHFIELD WAUSAU ARROW	---	---	---	---	---	---	---	---	---	---	2	1	REMOVE
3-24	R1-1F	STOP	36"X36"	---	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
3-25	R1-1F	STOP	36"X36"	---	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
3-26	D1-70	NORTH 39 WEST 10 NORTH 51 EAST 66 WAUSAU MARSHFIELD	120"X48"	---	---	1	1	---	---	---	40.00	---	---	---	
3-27	---	NORTH 39 WEST 10 NORTH 51 EAST 66 LEFT ARROW	---	---	---	---	---	---	---	---	---	---	2	1	REMOVE
3-28	---	NORTH 39 WEST 10 NORTH 51 EAST 66 LEFT ARROW	---	---	---	---	---	---	---	---	---	---	2	1	REMOVE
3-29	R4-7	KEEP RIGHT	24"X30"	---	---	---	---	---	---	---	5.00	---	---	---	ON SIGNAL POLE
3-30	R3-4	NO U TURN	24"X24"	---	---	---	---	---	---	---	4.00	---	---	---	ON SIGNAL POLE
3-31	J3-4	NORTH 39 WEST 10 NORTH 51 EAST 66 LEFT ARROW	96"X57"	---	---	---	2	---	---	---	38.00	---	---	---	
3-32	---	NO LEFT TURN	---	---	---	---	---	---	---	---	---	---	1	1	REMOVE
3-33	---	NO LEFT TURN	---	---	---	---	---	---	---	---	---	---	1	1	REMOVE
3-34	R3-2	NO LEFT TURN	24"X24"	---	---	---	---	---	---	---	4.00	---	---	---	
3-35	R1-1F	STOP	36"X36"	---	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
3-36	R1-1F	STOP	36"X36"	---	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
3-37	R10-11B	NO TURN ON RED	24"X24"	---	1	---	---	---	---	---	4.00	---	---	---	
3-38	---	STOP	---	---	---	---	---	---	---	---	---	---	1	1	REMOVE
3-39	R3-20L	BEGIN LEFT TURN LANE	24"X36"	---	1	---	---	---	---	---	6.00	---	---	---	
3-40	---	KEEP RIGHT	---	---	---	---	---	---	---	---	---	---	1	1	REMOVE
3-41	---	EAST 10 RIGHT ARROW	---	---	---	---	---	---	---	---	---	---	1	1	REMOVE
3-42	R10-11B	NO TURN ON RED	24"X24"	---	1	---	---	---	---	---	4.00	---	---	---	ON SIGNAL POLE
3-43	J3-1	EAST 10 RIGHT ARROW	24"X57"	---	---	1	---	---	---	---	9.50	---	---	---	
3-44	R6-2R	ONE WAY, RIGHT ARROW	30"X36"	---	---	---	---	---	---	---	7.50	---	1	1	ON SIGNAL POLE
3-45	R3-18	NO LEFT OR U TURN	30"X30"		1	---	---	---	---	---	6.25	---	---	---	
3-46	R1-1F	STOP	36"X36"	---	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
3-47	D1-52	VEHICALE REGISTRATION DRIVE LICENSING	108"X24"	---	2	---	---	---	---	---	18.00	---	2	1	
3-48	R1-1F	STOP	36"X36"	---	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
9-01	W3-3	TRAFFIC SIGNALS AHEAD	36"X36"	---	---	1	---	---	---	9.00	---	---	1	1	
			SUBTOTAL	**2**	**6**	**3**	**4**	**0**	**0**	**9.00**	**235.51**	**2**	**19**	**15**	
			TOTAL	**6**	**9**	**5**	**7**	**2**	**1**	**17.00**	**461.27**	**3**	**37**	**36**	

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ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

MARKING LINE EPOXY

STATION	-	STATION	LOCATION	646.1020 4-INCH WHITE LF	646.1020 4-INCH YELLOW LF	646.3020 8-INCH WHITE LF
85+75	-	86+86	EB	28	---	111
85+75	-	87+84	WB	235	---	---
87+63	-	94+53	EB	630	690	---
87+84	-	95+84	WB	630	734	---
94+84	-	97+00	EB	89	145	---
95+72	-	97+00	WB	92	131	---
293+05	-	294+87	ZC	65	125	192
270+63	-	274+13	ZD	---	---	989
285+80	-	286+69	ZZ	50	39	---
1176+74	-	1192+86	NB LT & RT	1612	1612	---
1184+64	-	1210+80	SB LT & RT	2616	2616	---
			SUBTOTAL	6046	6092	
			TOTAL	**12138**		**1292**

MARKING CROSSWALK EPOXY TRANSVERSE LINE

STATION	LOCATION	646.7420 6-INCH LF	REMARKS
86+84	EB RT	54	IH 39 SB ON RAMP
86+92	EB RT	56	USH 10 EB
87+40	EB LT	137	MEDIAN
94+65	EB RT	56	USH 10 EB
95+80	EB RT	80	IH 39 NB OFF RAMP
	TOTAL	383	

MARKING STOP LINE EPOXY 18-INCH

STATION	LOCATION	646.6120 LF	REMARKS
86+86	EB RT	24	
87+84	WB LT & RT	39	
94+53	EB LT & RT	35	
95+84	WB LT	24	
270+63	ZD LT	39	
270+65	ZD RT	18	
286+65	ZZ LT & RT	27	
	TOTAL	206	

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MARKING LINE GROOVED WET REF EPOXY

STATION	-	STATION	LOCATION	646.1040 4-INCH YELLOW LF	CONTRAST 646.1545 4-INCH LF	CONTRAST 646.3545 8-INCH LF
87+63	-	94+53	EB	---	163	486
88+07	-	88+55	INTERSECTION MINI DASHES	15		---
87+84	-	95+84	WB	---	197	504
94+72	-	97+00	EB	---	52	115
95+84	-	97+00	WB	---	29	---
			TOTAL	**15**	**440**	**1105**

MARKING ISLAND NOSE & CURB EPOXY

STATION	LOCATION	646.8220 ISLAND NOSE EPOXY EACH	646.8120 CURB EPOXY LF	REMARKS
87+13	EB LT	1	72	
294+77	ZC RT	1	47	
95+17	WB LT	1	10	
	TOTAL	3	129	

MARKING DIAGONAL EPOXY 12-INCH

STATION - STATION	LOCATION	646.7120 LF	REMARKS
271+00 - 271+60	ZD	38	IH 39 SB OFF RAMP
	TOTAL	38	

MARKING REPLACE WET REFLECTIVE EPOXY

STATION	-	STATION	LOCATION	646.1041.S 4-INCH WHITE LF	646.3041.S 8-INCH WHITE LF	REMARKS
1176+74	-	1192+86	NB CL	403	50	
1184+64	-	1210+80	SB CL	654	---	
1183+64	-	1188+06	SB LT	111	---	3' LINE 9' GAP AT RAMP
			TOTAL	1168	50	

MARKING ARROW & WORD EPOXY

STATION	LOCATION	646.5020 ARROW EACH	646.5120 WORD EACH	REMARKS
88+13	WB RT	1	---	TYPE 2
88+53	WB RT	---	1	
89+87	EB LT	1	---	TYPE 2
92+68	WB RT	1	---	TYPE 2
93+84	EB LT	---	1	
94+25	EB LT	1	---	TYPE 2
270+91	ZD LT & RT	3	---	TYPE 2
271+33	ZD LT & RT	---	3	RETRACE
	TOTAL	7	5	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

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TRAFFIC CONTROL

LOCATION	STAGE DAYS	QTY	643.0300 DRUMS DAY	QTY	643.0420 BARRICADES TYPE III DAY	QTY	643.0705 WARNING LIGHTS TYPE A DAY	QTY	643.0715 WARNING LIGHTS TYPE C DAY	QTY	643.0800 ARROW BOARDS DAY	QTY	643.0900 TRAFFIC CONTROL SIGNS DAY	REMARKS
STAGE 1	21	65	1365	7	147	14	294	7	147	1	21	49	1029	INCLUDES DETOUR
STAGE 1 SUBTOTAL			1365		147		294		147		21		1029	
STAGE 2	7	137	959	6	42	12	84	7	49	1	12	32	224	
STAGE 2 SUBTOTAL			959		42		84		49		12		224	
STAGE 3	67	108	7236	7	469	14	938	24	1608	0	0	71	4757	
STAGE 3 IH 39 NB & SB	10	160	1600	4	40	8	80	34	340	4	40	17	170	
STAGE 3 DETOUR	67	44	2948	4	268	8	536	0	0	0	0	194	12998	
STAGE 3 SUBTOTAL			11784		777		1554		1948		40		17925	
STAGE 4	67	80	5360	14	938	28	1876	25	1675	0	0	70	4690	
STAGE 4 IH 39 NB & SB	10	160	1600	4	40	8	80	34	340	4	40	17	170	
STAGE 4 DETOUR	67	44	2948	4	268	8	536	0	0	0	0	194	12998	
STAGE 4 SUBTOTAL			9908		1246		2492		2015		40		17858	
STAGE 5	21	85	1785	4	84	8	168	7	147	1	21	40	840	
STAGE 5 SUBTOTAL			1785		84		168		147		21		840	
STAGE 6 NB	15	160	2400	2	30	4	60	39	585	2	30	14	210	OUTSIDE LANE CLOSURE
STAGE 6 SB	15	34	510	1	15	2	30	11	165	0	0	11	165	OUTSIDE LANE CLOSURE
STAGE 6 NB	15	84	1260	2	30	4	60	23	345	2	30	13	195	INSIDE LANE CLOSURE
STAGE 6 SB	15	36	540	1	15	2	30	14	210	0	0	12	180	INSIDE LANE CLOSURE
STAGE 6 SUBTOTAL			4710		90		180		1305		60		750	
TOTALS			**30511**		**2386**		**4772**		**5611**		**194**		**38626**	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

TRAFFIC CONTROL COVERING SIGNS

LOCATION	CYCLES	NUMBER OF SIGNS	643.0910 TYPE I EACH	643.0920 TYPE II EACH	REMARKS
83+00 EB RT	2	1	---	2	STAGE 1, 3 TO 5 - OVERHEAD SIGN
87+00 EB LT	1	1	---	1	STAGE 1
87+75 EB LT	1	1	---	1	STAGE 1
93+00 EB LT	1	1	---	1	STAGE 1
86+00 EB RT	1	1	---	1	STAGE 3 TO 5
86+50 EB RT	1	1	---	1	STAGE 3 TO 4
IH 39 SB OFF RAMP	1	7	---	7	STAGE 3 TO 4
DETOUR					
IH 39 NB	1	1	1	---	STAGE 1 - STEVENS POINT EXITS
IH 39 NB	1	2	2	---	STAGE 1 - EXIT 158 A-B 1 MILE
IH 39 NB	2	1	2	---	STAGE 1 & 5 - EXIT 158 B ARROW
IH 39 NB	1	1	1	---	STAGE 3 TO 5 - STEVENS POINT EXITS
IH 39 NB	1	3	3	---	STAGE 3 TO 4 - EXIT 158 A-B 1 MILE
IH 39 SB	1	1	1	---	STAGE 3 TO 4 - EXIT 158
IH 39 SB	1	1	1	---	STAGE 3 TO 4 - EXIT 158 3/4 MILE
		TOTALS	**11**	**14**	

TRAFFIC CONTROL SIGNS FIXED MESSAGE

MESSAGE	SIZE	QTY	643.1000 SF	REMARKS
RIGHT LANE	60"X12"	1	5.00	
	TOTAL		**5.00**	

TRAFFIC CONTROL SIGNS PCMS WITH CELLULAR COMMUNICATIONS

PCMS #	LOCATION	PRIOR TO CLOSURE DAYS	DURING CLOSURE DAYS	643.1051 DAY	REMARKS
39-01	**SEE PCMS MESSAGES**	*7	0	14	STAGE 1 & STAGE 6
39-02	**SEE PCMS MESSAGES**	*7	0	14	STAGE 1 & STAGE 6
39-03	**SEE PCMS MESSAGES**	3	0	3	RAMP CLOSURE
10-01	**SEE PCMS MESSAGES**	3	0	3	RAMP CLOSURE
66-01	**SEE PCMS MESSAGES**	3	2	5	RAMP CLOSURE
			TOTAL	**39**	

*PRIOR TO CONSTRUCTION IN 2022 & 2023
**PRIOR TO CONSTRUCTION IN 2022

TEMPORARY PEDESTRIAN

STATION		STATION	LOCATION	STAGE DAYS	644.1430 TEMPORARY PEDESTRIAN SURFACE PLATE SF	QTY	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF	REMARKS
85+48	-	85+25	EB RT	25	30	1	25	376	STAGE 1 TO STAGE 1C
86+92	-	88+00	EB RT	---	---	---	---	222	STAGE 2 SIGNAL DEACTIVATION
86+89	-	87+88	EB RT	---	---	---	---	196	STAGE 3 TO STAGE 3G
87+18	-	87+45	EB RT	---	---	---	---	54	STAGE 4 TO STAGE 4D
88+00	-	97+00	EB RT	---	---	---	---	967	STAGE 4 TO STAGE 4D
86+89	-	87+38	EB RT	---	---	---	---	98	STAGE 4E
88+68	-	94+70	EB RT	---	---	---	---	609	STAGE 4E TO STAGE 4F
87+32	-	88+04	EB RT	---	---	---	---	144	STAGE 4F
93+78	-	94+71	EB MEDIAN	---	---	---	---	103	STAGE 4G TO STAGE 5A
			TOTALS		**30**		**25**	**2769**	

TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS & BASES

STATION		STATION	LOCATION	SPACING FT	643.0500 TUBULAR MARKER POSTS EACH	643.0600 TUBULAR MARKER BASES EACH	REMARKS
86+32	-	88+20	EBEX RT	12	16	16	STAGE 3
88+20	-	94+20	EBEX RT	25	24	24	STAGE 3
94+20	-	95+69	EBEX RT	12	12	12	STAGE 3
95+69	-	97+00	EBEX RT	25	7	7	STAGE 3
87+09	-	88+34	EBEX LT	12	10	10	STAGE 4
88+37	-	94+75	EBEX LT	25	29	29	STAGE 4
94+75	-	95+75	EBEX LT	12	13	13	STAGE 4
				TOTALS	**111**	**111**	

CONCRETE BARRIER TEMPORARY PRECAST

STATION		STATION	LOCATION	603.8000 DELIVERED LF	603.8125 INSTALLED LF	603.8505 ANCHORING BRIDGE DECKS LF	REMARKS
85+43	-	94+21	EB	880	880	260	STAGE 3
88+38	-	97+76	WB	406	940	260	STAGE 4
1285+21	-	1290+06	NB	485	485	---	STAGE 6 - PASSING LANE CLOSURE
1285+21	-	1289+77	NB	---	456	---	STAGE 6 - DRIVING LANE CLOSURE
1288+44	-	1292+89	SB	445	445	---	STAGE 6 - PASSING LANE CLOSURE
1288+44	-	1292+89	SB	---	445	---	STAGE 6 - DRIVING LANE CLOSURE
			TOTALS	**2216**	**3651**	**520**	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

TEMPORARY MARKING PAINT & REMOVABLE TAPE

STATION	-	STATION	LOCATION	APPROXIMATE SERVICE PERIOD	649.0105 PAINT 4-INCH WHITE LF	649.0105 PAINT 4-INCH YELLOW LF	649.0205 PAINT 8-INCH LF	649.0150 TAPE 4-INCH WHITE LF	649.0150 TAPE 4-INCH YELLOW LF	649.0250 TAPE 8-INCH LF	649.0960 MASK OUT TAPE 6-INCH LF	649.0970 MASK OUT TAPE 10-INCH LF	REMARKS
68+57	-	71+77	EB RT	3 WEEKS	---	---	---	320	---	---	80	---	STAGE 1
87+25	-	87+41	EB RT	3 WEEKS	---	---	---	36	---	---	---	---	STAGE 1
86+36	-	87+40	EB RT	14 WEEKS	158	---	134	---	---	---	---	---	STAGE 2
79+57	-	80+75	EB RT	14 WEEKS	---	---	118	---	---	---	---	---	STAGE 3 & 4
81+78	-	97+00	EB	12 WEEKS	1122	1275	722	---	---	---	---	---	STAGE 2 TRANSISTION TO STAGE 3
81+61	-	97+00	WB	12 WEEKS	1328	1269	60	---	---	---	---	---	STAGE 3
83+75	-	96+72	WB	16 WEEKS	---	---	101	1003	1198	---	---	---	STAGE 3F
84+25	-	97+00	EB	16 WEEKS	---	---	---	1555	915	394	---	---	STAGE 3G
86+75	-	88+25	EB	12 WEEKS	---	---	---	344	322	---	---	---	STAGE 4
87+39	-	88+68	EB	2 WEEKS	---	---	---	260	---	---	---	---	STAGE 4E
86+70	-	97+00	EB	3 WEEKS	---	---	---	1653	---	100	---	---	STAGE 4F
1230+84	-	1239+24	NB	3 WEEKS	---	---	---	---	840	---	---	---	STAGE 6 - PASSING LANE CLOSURE
1277+41	-	1293+11	NB	3 WEEKS	---	---	---	1138	1570	90	---	---	STAGE 6 - PASSING LANE CLOSURE
1230+84	-	1239+24	NB	3 WEEKS	---	---	---	840	---	---	---	---	STAGE 6 - DRIVING LANE CLOSURE
1267+31	-	1276+17	NB	3 WEEKS	---	---	---	200	---	742	---	---	STAGE 6 - DRIVING LANE CLOSURE
1276+17	-	1292+51	NB	3 WEEKS	---	---	---	1668	981	271	---	---	STAGE 6 - DRIVING LANE CLOSURE
1278+78	-	1281+29	SB	3 WEEKS	---	---	---	251	---	---	---	---	STAGE 6 - PASSING LANE CLOSURE
1281+29	-	1300+20	SB	3 WEEKS	---	---	---	2240	1891	107	---	---	STAGE 6 - PASSING LANE CLOSURE
1300+20	-	1302+70	SB	3 WEEKS	---	---	---	250	---	---	---	---	STAGE 6 - PASSING LANE CLOSURE
1281+68	-	1284+18	SB	3 WEEKS	---	---	---	250	---	---	---	---	STAGE 6 - DRIVING LANE CLOSURE
1284+18	-	1298+64	SB	3 WEEKS	---	---	---	2765	1446	325	---	---	STAGE 6 - DRIVING LANE CLOSURE
1298+64	-	1301+14	SB	3 WEEKS	---	---	---	250	---	---	---	---	STAGE 6 - DRIVING LANE CLOSURE
1230+84	-	1239+24	NB	6 WEEKS	---	---	---	---	---	---	210	---	STAGE 6 - CL SKIPS
1267+31	-	1271+06	NB	3 WEEKS	---	---	---	---	---	---	94	---	STAGE 6 - CL SKIPS
1279+40	-	1281+78	NB	3 WEEKS	---	---	---	---	---	---	---	238	STAGE 6
1290+16	-	1291+24	NB	3 WEEKS	---	---	---	---	---	---	27	---	STAGE 6 - CL SKIPS
1281+29	-	1284+60	SB	3 WEEKS	---	---	---	---	---	---	83	---	STAGE 6 - CL SKIPS
1284+48		1287+92	SB	3 WEEKS	---	---	---	---	---	---	---	435	STAGE 6
1296+89	-	1300+20	SB	6 WEEKS	---	---	---	---	---	---	83	---	STAGE 6 - CL SKIPS
				SUBTOTAL	**2608**	**2544**		**15023**	**9163**				
				TOTALS	**5152**		**1135**	**24186**		**2029**	**577**	**673**	

TEMPORARY DETECTABLE WARNING FIELD

STATION	LOCATION	SPV.0045.01 DAY	REMARKS
86+94EB	RT	182	STAGE 2, 3, 4
87+97EB	RT	98	STAGE 2, 3
87+42EB	RT	56	STAGE 4, 4A, 4B, 4C, 4D
88+00EB	RT	56	STAGE 4, 4A, 4B, 4C, 4D
87+35EB	RT	28	STAGE 4E, 4F
88+01EB	RT	28	STAGE 4E, 4F
88+70EB	RT	28	STAGE 4E, 4F
TOTAL		**476**	

MARKING REMOVAL SPECIAL MARKING

STATION	LOCATION	646.9300 SPECIAL MARKING EACH	REMARKS - EXISTING MARKING
84+82	EB LT	1	STAGE 3 - LT ARROW
85+23	EB LT	1	STAGE 3 - ONLY
90+26 - 95+00	EB LT	5	STAGE 2 - LEFT TURN LANE
87+75	SB OFF RAMP	2	STAGE 4
	TOTAL	**9**	

MARKING REMOVAL LINE WIDE

STATION	-	STATION	LOCATION	646.9200 LF	REMARKS - EXISTING MARKING
		87+84	WB	24	STAGE 2 TRANSISTION TO STAGE 3 - STOP LINE
		87+75	SB OFF RAMP	16	STAGE 4 - STOP LINE
1550+75	-	1552+65	NB RT	55	STAGE 6
1630+67	-	1633+65	NB RT	75	STAGE 6
1483+62	-	1485+45	SB LT	75	STAGE 6
1571+21	-	1574+16	SB LT	80	STAGE 6
1680+62	-	1682+97	SB LT	53	STAGE 6
			TOTAL	**378**	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

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MARKING REMOVAL LINE & WATER BLASTING

STATION	-	STATION	LOCATION	646.9000 LINE 4-INCH LF	646.9100 LINE 8-INCH LF	646.9110 WATER BLASTING 8-INCH LF	REMARKS
81+88	-	82+36	EB LT	---	48	---	STAGE 3
83+75	-	84+88	EB LT	---	113	---	STAGE 3
84+00	-	97+00	EB RT	769	494	105	STAGE 2 TRANSISTION TO STAGE 3
1500+00	-	1550+75	NB RT	5075	---	---	STAGE 6
1550+75	-	1552+65	NB RT	---	180	---	STAGE 6
1552+65	-	1568+63	NB RT	1598	---	---	STAGE 6
1568+63	-	1573+36	NB RT	---	810	---	STAGE 6
1575+77	-	1630+67	NB RT	5490	---	---	STAGE 6
1630+67	-	1633+65	NB RT	---	420	---	STAGE 6
1633+65	-	1650+87	NB RT	1722	---	---	STAGE 6
1650+87	-	1653+50	NB RT	---	380	---	STAGE 6
1653+50	-	1691+50	NB RT	3800	---	---	STAGE 6
1477+00	-	1483+62	SB LT	662	---	---	STAGE 6
1483+62	-	1485+45	SB LT	---	375	---	STAGE 6
1485+45	-	1550+85	SB LT	6540	485	---	STAGE 6
1550+85	-	1571+21	SB LT	2036	---	---	STAGE 6
1571+21	-	1574+16	SB LT	---	390	---	STAGE 6
1574+16	-	1660+80	SB LT	8664	---	---	STAGE 6
1660+80	-	1664+15	SB LT	---	470	---	STAGE 6
1664+15	-	1680+62	SB LT	1647	---	---	STAGE 6
1680+62	-	1682+97	SB LT	---	316	---	STAGE 6
1682+97	-	1694+50	SB LT	1153	---	---	STAGE 6
			TOTAL	39156	4481	105	

SAWING ASPHALT

STATION	LOCATION	690.0150 LF	REMARKS
85+64WB	LT	10	SHOULDER
285+26ZZ	RT	5	SHOULDER
286+25ZZ	LT & RT	8	SHOULDER
	TOTAL	23	

3

SAWING CONCRETE

STATION - STATION	LOCATION	690.0250 LF	REMARKS
85+64WB	LT	24	
85+75EB	RT	39	
85+75EB	RT	5	SIDEWALK
85+75EB - 87+41EB	RT	178	STAGE 1 - RT TURN LANE
84+00EB - 87+18EB	LT	319	STAGE 2 - MEDIAN
84+38WB - 87+18WB	RT	291	STAGE 2 - MEDIAN
87+62EB - 90+11EB	LT	264	STAGE 2 - MEDIAN
92+47EB - 95+26EB	LT	284	STAGE 2 - MEDIAN
93+92WB - 95+26WB	RT	139	STAGE 2 - MEDIAN
95+66EB - 97+00EB	LT	142	STAGE 2 - MEDIAN
95+66WB - 97+00WB	RT	142	STAGE 2 - MEDIAN
293+58ZC	LT & RT	23	
271+68ZD	LT & RT	46	
286+25ZZ	LT	15	
	TOTAL	1911	

*SEE CONCRETE PAVEMENT REPAIR FOR ADDITIONAL QUANTITIES

CONSTRUCTION STAKING

STATION	-	STATION	LOCATION	650.4000 STORM SEWER EACH	650.4500 SUBGRADE LF	650.7000 CONCRETE PAVEMENT LF	650.7500 CONCRETE BARRIER LF	650.9000 CURB RAMPS EACH	650.9920 SLOPE STAKES LF	REMARKS
85+75	-	90+25	EB	4	---	450	251	3	157	
85+75	-	89+90	WB	5	---	415	222	---	415	
92+30	-	97+00	WB	4	---	470	249	---	180	
92+65	-	97+00	EB	4	---	435	210	4	336	
293+58	-	294+83	ZC	---	125	125	---	1	125	
270+48	-	271+68	ZD	3	---	120	---	---	120	
286+25	-	286+90	ZZ	---	---	65	---	---	65	
			TOTALS	20	125	2,080	932	8	1,398	

CONCRETE PAVEMENT JOINT LAYOUT 1166-06-75

LOCATION	415.5110.S.01 LS	REMARKS
USH 10/STH 66/IH 39 SB RAMP INTERSECTION	0.5	
USH 10/STH 66/IH 39 NB RAMP INTERSECTION	0.5	
TOTAL	1	

STREET SWEEPING

LOCATION	SPV.0075.01 HOUR	REMARKS
USH 10/STH 66/RAMPS	20	
TOTAL	20	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

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CLEARING & GRUBBING

STATION	LOCATION	201.0120 CLEARING ID	201.0220 GRUBBING ID	REMARKS
97+93WB	LT	23	23	2 TREES
106+99EB	LT	11	11	
107+65EB	LT	12	12	
109+32EB	LT	8	8	
110+72EB	LT	3	3	
111+54EB	LT	7	7	
308+14ZB	RT	12	12	
308+59ZB	RT	8	8	LAYING ON GROUND
309+00ZB	RT	12	12	
309+03ZB	RT	10	10	
309+04ZB	RT	10	10	
23+38MB	LT	11	11	
23+46MB	LT	9	9	
24+90MB	LT	13	13	
25+88MB	LT	4	4	
	TOTALS	153	153	

REMOVING STORM SEWER (SIZE)

STATION - STATION	LOCATION	204.0245.01 12-INCH LF	REMARKS
101+85WB	LT	6	
101+85WB	RT	25	PROPOSED INLETS
101+85WB - 102+04WB	LT	19	
107+63EB	LT	6	
107+63EB - 107+83EB	LT	19	
108+92EB	LT	6	
108+92EB - 109+14EB	LT	22	
110+05EB	LT	6	
111+56EB	LT	6	
297+50ZB	LT & RT	20	INLCUDES ENDWALL
301+00ZB	LT & RT	39	INLCUDES ENDWALL
304+00ZB	LT & RT	42	INLCUDES ENDWALL
305+50ZB	LT & RT	50	INLCUDES ENDWALL
307+50ZB	RT	29	INLCUDES ENDWALL
	TOTAL	295	

REMOVING INLETS

STATION	LOCATION	204.0220 EACH	REMARKS
96+88EB	LT	1	MEDIAN INLET
101+84WB	LT	1	CURB INLET
102+04WB	LT	1	CURB INLET
106+83EB	LT	1	CURB INLET
107+63EB	LT	1	CURB INLET
107+83EB	LT	1	CURB INLET
108+92EB	LT	1	CURB INLET
109+14EB	LT	1	CURB INLET
110+06EB	LT	1	CURB INLET
111+56EB	LT	1	CURB INLET
288+43ZA	LT	1	CURB INLET
291+81ZA	LT	1	CURB INLET
297+50ZB	RT	1	CURB INLET
301+00ZB	RT	1	CURB INLET
304+00ZB	LT	1	CURB INLET
305+50ZB	LT	1	MEDIAN INLET
307+50ZB	RT	1	CURB INLET
	TOTAL	17	

3

CLEARING & GRUBBING

STATION	-	STATION	LOCATION	201.0105 STATIONS	201.0205 STATIONS	REMARKS
302+00	-	307+00	ZBT RT	5	5	
			TOTALS	5	5	

REMOVING GUARDRAIL

STATION - STATION	LOCATION	204.0165 LF	REMARKS
284+86ZA - 289+75ZA	RT	489	
	TOTAL	489	

REMOVING ASPHALTIC SURFACE

STATION - STATION	LOCATION	204.0110 SY	REMARKS
96+55WB - 99+16WB	LT	176	SHOULDER
	TOTAL	176	

REMOVING CURB & GUTTER

STATION - STATION	LOCATION	204.0150 LF	REMARKS
97+00EB - 99+60EB	LT	260	STAGE 2 - MEDIAN
97+00WB - 99+60WB	RT	260	STAGE 2 - MEDIAN
99+00EB - 99+69EB	RT	78	CURB RAMP
100+41EB - 103+61EB	LT	322	STAGE 2 - MEDIAN
100+41EB - 103+61EB	RT	320	STAGE 2 - MEDIAN
100+73EB - 100+89EB	RT	30	CURB RAMP
100+98WB - 103+58WB	LT	260	RIGHT TURN LANE
107+61WB - 112+15WB	LT	454	AUXILIARY LANE
283+07ZA - 283+21ZA	LT	38	STAGE 2 - TEMP RAMP
289+75ZA - 294+79ZA	LT	504	STAGE 2 - TEMP RAMP
298+30ZB - 302+83ZB	LT	453	STAGE 2 - TEMP RAMP
299+38ZB - 308+44ZB	RT	906	STAGE 2 - TEMP RAMP
306+00ZB - 308+04ZB	LT	204	STAGE 2 - TEMP RAMP
	TOTAL	4089	

REMOVING CONCRETE PAVEMENT

STATION - STATION	WIDTH FEET	204.0100 SY	REMARKS
97+00EB - 99+77EB	12	392	LEFT TURN LANE
97+00WB - 99+76WB	36	1112	WB LANES
97+00EB - 99+00EB	36	830	EB LANES
100+26WB - 103+18WB	12	328	LEFT TURN LANE
100+14WB - 100+98WB	VARIES	363	RIGHT TURN LANE
106+64EB - 107+61EB	VARIES	95	AUXILIARY LANE
282+96ZA - 283+75ZA	VARIES	477	
283+75ZA - 289+75ZA	17.5	1167	
302+45ZB - 309+36ZB	22	1689	
22+83MB - 24+75MB	VARIES	327	RIGHT TURN LANE
	TOTAL	6780	

REMOVING CONCRETE SIDEWALK

STATION - STATION	LOCATION	204.0155 SY	REMARKS
97+00EB - 99+60EB	RT	142	SIDEWALK
99+50EB - 99+75MB	RT	26	ISLAND
100+41WB - 100+59WB	LT	18	CURB RAMP
108+30EB - 108+72EB	LT	21	DRIVEWAY
109+71EB - 110+30EB	LT	34	DRIVEWAY
100+74EB - 101+00EB	RT	13	CURB RAMP
286+90ZA - 294+00ZA	LT	318	MEDIAN
21+21MB - 21+75MB	RT	93	ISLAND
	TOTAL	664	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

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ASPHALTIC SURFACE TEMPORARY

STATION	-	STATION	LOCATION	THICKNESS INCH	465.0125 TON	REMARKS
97+00	-	99+60	EB LT	3.5	97	STAGE 2
100+36	-	103+61	EB LT	3.5	136	STAGE 2
283+30	-	286+60	ZAT LT & RT	3.5	117	STAGE 1
289+85	-	293+66	ZAT LT & RT	3.5	82	STAGE 1
293+65	-	308+20	ZBT LT	3.5	358	STAGE 1
22+71	-	23+51	MB LT	3.5	25	STAGE 2
302+45	-	305+03	ZBT LT	3.5	51	STAGE 3D
95+80	-	99+03	WB RT	3.5	15	STAGE 3D
98+60	-	99+38	WB LT	3.5	10	STAGE 3D
99+49	-	99+75	EB RT	3.5	6	STAGE 4
21+21	-	21+97	MB RT	3.5	22	STAGE 4A
UNDISRIBUTED					10	
				TOTAL	929	

REMOVING ASPHALTIC SURFACE MILLING

STATION	-	STATION	LOCATION	204.0120 SY	REMARKS
24+75	-	27+04	MB LT	305	
24+75	-	27+04	NB RT	458	
			TOTAL	763	

REMOVING ASPHALTIC SURFACE BUTT JOINT

STATION	LOCATION	204.0115 SY	REMARKS
24+75MB	LT & RT	33	
27+04MB	LT & RT	32	
	TOTAL	65	

BASE AGGREGATE

STATION - STATION	LOCATION	305.0110 DENSE 3/4-INCH TON	THICKNESS IN	305.0120 DENSE 1 1/4-INCH TON	310.0110 OPEN GRADED TON	REMARKS
97+00 - 99+00	EB RT	---	VARIES	388	---	LANES
97+00 - 99+78	EB LT	---	6	259	---	LEFT TURN LANE
97+00 - 99+00	WB LT	---	VARIES	456	---	LANES
97+00 - 99+52	EB RT	---	4	66	---	SIDEWALK
97+17 - 99+71	EB LT	---	13	161	---	ISLANDS
100+24 - 103+64	WB RT	---	8	---	295	LEFT TURN LANE
100+31 - 103+60	WB RT	---	13	182	---	ISLANDS
100+23 - 100+59	WB LT	---	4	15	---	SIDEWALK
100+23 - 103+58	WB LT	---	8	---	286	RIGHT TURN LANE
100+30	WB LT	---	13	10	---	ISLANDS
106+64 - 112+14	EB LT	---	8	---	383	AUXILIARY LANE
108+50	EB LT	---	6	30	---	CE
110+00	EB LT	---	6	28	---	CE
302+54 - 308+50	ZB	---	6	603	---	NB OFF RAMP
308+50 - 309+36	ZB	---	6	138	---	NB OFF RAMP
282+22 - 284+53	ZG	---	6	307	---	
283+03 - 284+61	ZA LT	---	6	174	---	NB ON RAMP
284+61 - 287+02	ZA LT & RT	174	6	424	---	NB ON RAMP
287+02 - 289+75	ZA LT & RT	132	6	422	---	NB ON RAMP
283+05 - 283+73	ZA LT & RT	---	13	319	---	ISLAND
286+25 - 290+08	ZA LT	---	13	161	---	MEDIAN
284+42 - 284+61	ZG LT & RT	---	6	387	---	
22+71 - 23+22	MB LT	---	6	96	---	RIGHT TURN LANE
23+22 - 24+75	MB LT	55	6	143	---	RIGHT TURN LANE
24+75 - 27+04	MB LT	25	13	330	---	RIGHT TURN LANE
22+86 - 23+80	MB LT	---	4	21	---	ISLAND
283+30 - 286+40	ZAT	---	8	250	---	TEMP NB RAMP
299+50 - 308+25	ZBT	83	8	945	---	TEMP NB RAMP
298+85 - 302+54	ZB LT	---	9	151	---	TEMP RAMP MEDIAN
	TOTALS	469		6467	964	

ASPHALTIC SURFACE

STATION	-	STATION	LOCATION	THICKNESS INCH	465.0105 TON	REMARKS
284+54	-	285+52	ZA RT	4	15	SHOULDER
285+52	-	289+75	ZA RT	4	87	SHOULDER
24+75	-	27+03	MB LT	2.5	48	LOWER LAYER
24+75	-	27+03	MB LT	2	73	UPPER LAYER
24+75	-	27+03	MB RT	2	55	UPPER LAYER
				TOTAL	278	

ASPHALTIC SURFACE PATCHING

STATION	-	STATION	LOCATION	465.0110 ASPHALTIC SURFACE PATCHING TON	*690.0250 SAWING CONCRETE LF	REMARKS
290+08	-	290+18	ZA LT	7.2	40	INLET
293+47	-	293+57	ZA LT	7.2	40	INLET
297+45	-	297+55	ZB LT	8.7	51	INLET
299+45	-	299+55	ZB LT	8.7	34	INLET/STORM SEWER
300+96	-	301+06	ZB LT	8.7	34	STORM SEWER REMOVAL
302+45	-	302+55	ZB LT	8.7	---	INLET/STORM SEWER
			TOTAL	49.1	199	

*SEE INDIVIDUAL ITEMS FOR ADDITIONAL QUANTITIES

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

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EARTHWORK SUMMARY

STATION - STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CY	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (2)	UNEXPANDED FILL	EXPANDED FILL FACTOR 1.25	MASS ORDINATE +/- (3)	WASTE	208.0100 BORROW CY	COMMENT
97+00EB - 112+25EB	USH 10 EB	2,228	160	2,068	336	420	1,648	1,648	0	
97+00WB - 99+50WB	USH 10 WB	987	355	632	413	516	116	116	0	
23+50MB - 27+50MB	MAPLE BLUFF	322	59	263	136	170	93	93	0	
283+25ZA - 290+00ZA	ZA	1,245	324	921	459	574	347	347	0	
298+00ZB - 308+50ZB	ZB	542	356	186	428	535	-349	0	349	
283+00ZG - 284+00ZG	ZG	18	6	12	851	1,064	-1,052	0	1,052	
283+50ZAT - 286+00ZAT	ZAT	219	0	219	0	0	219	219	0	
299+39.156ZB EX - 308+23.034ZB EX	ZB EX	1,665	94	1,571	287	359	1,212	1,212	0	
	TOTALS	7,226	1,354	5,872	2,910	3,638	2,235	3,635	1,401	

NOTES:
(1) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
(2) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(3) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

STATION	LOCATION	465.0120 TON	REMARKS
108+50	LT	11	
110+00	LT	10	
	TOTAL	20	

ROUT AND SEAL

STATION	-	STATION	LOCATION	415.6000.S LF	REMARKS
284+71	-	289+75	ZA RT	504	LONGITUDINAL
289+75			ZA	15	TRANSVERSE
302+54			ZB	17	TRANSVERSE
			TOTAL	536	

FILE NAME : N:\pds\design_id\1166-06-05_IH39\Quantities\030202-mq.ppt PLOT DATE : June 29, 2021 PLOT BY : Zach Gruling ☺ PLOT NAME : Miscellaneous Quantities PLOT SCALE : 1:1

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

CONCRETE PAVEMENT

STATION		STATION	LOCATION	10-INCH 415.0100 SY	11-INCH 415.0110 SY	REMARKS
95+98	-	99+78	EB LT	---	555	LEFT TURN LANE
97+00	-	99+00	EB RT	---	622	
97+00	-	99+00	EB RT	---	171	RIGHT TURN LANE
97+00	-	99+75	WB LT	---	937	
100+14	-	103+57	WB LT	703	---	RIGHT TURN LANE
100+25	-	103+33	WB RT	449	---	LEFT TURN LANE
106+64	-	112+15	EB LT	631	---	AUXILIARY LANE
283+03	-	284+61	ZA LT	---	284	
284+61	-	287+02	ZA LT	---	643	
287+02	-	289+75	ZA LT	---	544	
302+54	-	308+53	ZB LT	---	1198	
308+53	-	309+36	ZB LT & RT	---	276	
281+42	-	284+61	ZG LT	---	740	
22+71	-	23+22	MB LT	114	---	RIGHT TURN LANE
23+22	-	24+75	MB LT	303	---	RIGHT TURN LANE
			TOTAL	2200	5970	

CONCRETE DRIVEWAY 6-INCH

STATION	LOCATION	WIDTH	416.0160 SY
108+50	LT	35	24
110+00	LT	35	24
	TOTAL		47

DRILLED TIE BARS

STATION		STATION	LOCATION	416.0610 EACH
99+00	-	99+77	EB RT	26
99+00	-	99+68	EB RT	32
100+14	-	103+58	WB LT	125
100+25	-	103+61	WB LT	134
100+25	-	102+06	EB RT	72
106+64	-	112+15	EB LT	196
22+72	-	23+66	MB RT	37
22+84	-	24+75	MB LT	48
290+18	-	294+32	ZA LT	165
298+77	-	302+45	ZB LT	147
299+65	-	302+45	ZA RT	112
			TOTAL	1094

*SEE CONCRETE PAVEMENT REPAIR FOR ADDITIONAL QUANTITIES

COLORING CONCRETE & CONCRETE TRUCK APRON

STATION	LOCATION	405.0100 COLORING CONCRETE WISDOT RED CY	416.0512 CONCRETE TRUCK APRON 12-INCH SY
283+25ZA	LT	24	73
282+41ZG - 284+61ZG	RT	41	124
	TOTAL	66	197

DRILLED DOWEL BARS

STATION	LOCATION	416.0620 EACH
99+00EB	RT	24
99+76WB	LT	24
99+77EB	LT	16
100+26EB	LT	16
100+98WB	LT	8
106+65EB	LT	8
24+20MB	LT	8
TOTAL		104

*SEE CONCRETE PAVEMENT REPAIR FOR ADDITIONAL QUANTITIES

CONCRETE PAVEMENT REPAIR

STATION		STATION	LOCATION	416.1710 CONCRETE PAVEMENT REPAIR SY	416.1715 CONCRETE PAVEMENT REPAIR SHES SY	415.1720 CONCRETE PAVEMENT REPLACEMENT SY	*416.0610 DRILLED TIE BARS EACH	*416.0620 DRILLED DOWEL BARS EACH	*690.0250 SAWING CONCRETE LF	REMARKS
99+23	-	99+31	EB RT	10.7	---	---	6	16	40	CONCRETE REPAIR
99+37	-	99+43	EB RT	16.0	---	---	2	32	60	CONCRETE REPAIR
99+53	-	99+63	EB RT	26.6	---	---	4	32	34	INLET/CONCRETE REPAIR
100+21	-	100+29	EB RT	---	21.3	---	3	32	56	CONCRETE REPAIR
100+75	-	100+83	WB LT	21.3	---	---	6	32	64	CONCRETE REPAIR
101+56	-	101+65	EB RT	11.6	---	---	6	16	42	CONCRETE REPAIR
101+64	-	102+09	WB LT	70.2	---	70.2	18	32	93	STORM SEWER/CONCRETE REPAIR
101+75	-	101+83	EB RT	10.7	---	---	6	16	40	CONCRETE REPAIR
101+79	-	101+89	WB LT	---	13.3	---	18	16	34	INLET
101+94	-	102+02	EB RT	10.7	---	---	6	16	40	CONCRETE REPAIR
102+32	-	102+40	EB RT	10.7	---	---	6	16	40	CONCRETE REPAIR
102+65	-	102+73	EB RT	10.7	---	---	6	16	40	CONCRETE REPAIR
102+84	-	102+90	EB RT	8.0	---	---	4	16	36	CONCRETE REPAIR
103+22	-	103+30	EB RT	10.7	---	---	6	16	40	CONCRETE REPAIR
103+31	-	103+57	WB LT	---	---	73.7	0	48	72	LOOP DETECTOR/PAVEMENT REPAIR
107+58	-	107+88	EB LT	---	---	39.9	12	16	53	STORM SEWER
108+87	-	109+19	EB LT	---	---	42.7	12	16	57	LOOP DETECTOR
110+00	-	110+10	EB LT	13.5	---	---	4	16	34	STORM SEWER
111+50	-	111+60	EB LT	13.6	---	---	4	16	34	STORM SEWER
20+32	-	20+46	MB RT	42.6	---	---	10	32	83	LOOP DETECTOR
21+33	-	21+93	MB RT	---	---	284.3	48	56	319	LOOP DETECTOR
22+84	-	23+44	MB LT	---	---	173.1	24	32	110	LOOP DETECTOR
24+20	-	24+32	MB LT	---	16.0	---	4	16	36	LOOP DETECTOR
			TOTAL	287	51	684	215	552	1457	

*SEE INDIVIDUAL ITEMS FOR ADDITIONAL QUANTITIES

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

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CONCRETE CURB & GUTTER

STATION - STATION	LOCATION	601.0405 18-INCH TYPE A LF	601.0409 30-INCH TYPE A LF	601.0555 6-INCH SLOPED 36-INCH TYPE A LF	601.0582 4-INCH SLOPED 36-INCH TYPE T LF	SPV.0090.02 30-INCH TYPE A MODIFIED LF	REMARKS
94+74WB - 96+50WB	LT	---	122	---	---	---	
97+00WB - 99+41WB	RT	483	---	---	---	---	MEDIAN
98+25WB - 99+45WB	LT	---	---	138	---	---	INCLUDES RADIUS
97+00EB - 99+68EB	RT	---	279	---	---	---	
97+96EB - 99+72EB	EB LT	350	---	---	---	---	LEFT TURN ISLAND
100+24WB - 103+58WB	LT	50	371	---	---	---	RIGHT TURN LANE
100+26WB - 101+92WB	RT	335	---	---	---	---	LEFT TURN ISLAND
100+67EB - 103+61EB	LT	592	---	---	---	---	MEDIAN
106+64EB - 112+15EB	LT	---	551	---	---	---	AUXILIARY LANE
283+05ZA - 294+02ZA	LT	254	341	186	95	438	INLCUDES ISLAND
297+45ZB - 297+55ZB	RT	---	---	---	---	10	INLET
298+30ZB - 309+35ZB	LT & RT	292	555	135	---	714	
281+42ZG - 284+61ZG	RT	---	---	99	216	---	
282+95ZG - 284+08ZG	LT	---	---	130	---	---	ISLAND
22+83MB - 23+83MB	LT	---	207	---	---	---	ISLAND
	TOTAL	2356	2426	688	311	1162	

CONCRETE SIDEWALK

STATION - STATION	LOCATION	602.0405 4-INCH SF	602.0410 5-INCH SF	REMARKS
97+00EB - 99+52EB	RT	---	2045	SIDEWALK
97+00EB - 99+38EB	LT	1221	---	MEDIAN
97+96EB - 99+72EB	LT	877	---	LEFT TURN LANE
100+28WB - 100+43WB	LT	118	---	ISLAND
100+31WB - 101+88WB	RT	785	---	LEFT TURN LANE
100+70EB - 103+57EB	LT	1293	---	MEDIAN
22+86MB - 23+75MB	LT	798	---	ISLAND
23+08MB - 23+72MB	RT	460	---	SIDEWALK
283+04ZA - 284+01ZA	LT & RT	3785	---	ISLAND
286+25ZA - 294+31ZA	LT	3269	---	MEDIAN
309+02ZB - 309+34ZB	LT	837	---	MEDIAN
	TOTAL	13443	2045	

CONCRETE MEDIAN SLOPED NOSE

STATION	LOCATION	620.0300 SF	REMARKS
96+69WB	LT	77	TYPE 1
97+95EB	LT	48	TYPE 1
99+72EB	LT	48	TYPE 1
99+75WB	LT	21	TYPE 2
100+29WB	RT	48	TYPE 1
100+43WB	LT	15	TYPE 2 2'
100+71EB	LT	38	TYPE 1
101+89WB	RT	48	TYPE 1
103+58WB	RT	57	TYPE 1
22+85MB	LT	21	TYPE 2 2'
22+87MB	RT	7	TYPE 2
23+00MB	RT	10	TYPE 2
23+78MB	LT	49	TYPE 1
283+05ZA	RT	29	TYPE 2 2'
283+03ZA	LT	29	TYPE 2
284+03ZA	LT	66	TYPE 1
309+34ZB	RT	14	TYPE 2
	TOTAL	625	

CURB RAMP DETECTABLE WARNING FIELD

STATION	LOCATION	602.0505 YELLOW SF	602.0605 RADIAL YELLOW SF	REMARKS
99+50EB	RT	16	---	
99+70EB	RT	20	---	ISLAND
100+36WB	LT	20	---	ISLAND
100+38EB	RT	30	---	ISLAND
100+53WB	LT	10	---	
100+82EB	RT	---	20	
23+70MB	RT	10	---	
	TOTAL	106	20	

CONCRETE SAFETY ISLANDS

STATION	LOCATION	602.2400 SF
99+65	EB RT	246
21+75	MB RT	836
	TOTAL	1082

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATION	LOCATION	416.1010 CONCRETE SURFACE DRAINS CY	465.0315 ASPHALTIC FLUMES SY	REMARKS
284+58ZA	RT	4	---	
294+85ZA	LT	---	10	
298+25ZB	LT	---	10	
23+25MB	LT	---	14	
	TOTAL	4	34	

MGS GUARDRAIL

STATION - STATION	LOCATION	614.2300 MGS GUARDRAIL 3 EACH	614.2610 MGS GUARDRAIL TERMINAL EAT LF	REMARKS
285+04ZA - 289+75ZA	RT	422	1	
	TOTAL	422	1	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

CROSS DRAINS

STATION	LOCATION	608.2338 STORM SEWER RC HE CLASS III 38X60-INCH LF	#524.0648 APRON ENDWALLS FOR CULVERT PIPE SALVAGED 48-INCH EACH	**520.8000 CONCRETE COLLARS FOR PIPE EACH	*633.5200 CULVERT MARKERS EACH	REMARKS
26+05MB	LT	7	1	1	2	
	TOTAL	7	1	1	2	

ALL JOINTS SHALL BE TIED.

38X60-INCH IS 48-INCH EQUIVELENT DIAMETER

*SEE STORM SEWER STRUCTURES FOR ADDITIONAL QUANTITIES

**SEE STORM SEWER PIPE REINFORCED CONCRETE FOR ADDITIONAL QUANTITIES

WATER

STATION - STATION	LOCATION	624.0100 MGAL
UNDISTRIBUTED		111.5
	TOTAL	111.5

INLET PROTECTION

STATION	LOCATION	628.7010 TYPE B EACH	628.7015 TYPE C EACH
96+62WB	LT	---	1
97+84WB	LT & RT	---	3
97+89EB	RT	---	1
98+90WB	LT	---	1
99+31EB	RT	---	1
99+35WB	RT	---	2
99+58EB	LT	---	1
101+60WB	RT	---	1
101+84EB	LT & RT	---	2
101+84WB	LT & RT	---	3
102+04EB	RT	---	1
102+04WB	LT	---	2
105+51WB	LT	---	1
106+62EB	LT	---	1
106+82EB	LT	---	1
107+63EB	LT	---	2
107+83EB	LT	---	2
108+92EB	LT	---	2
109+14EB	LT	---	2
110+05EB	LT	1	---
110+34EB	LT	---	1
111+56EB	LT	---	1
297+50ZB	RT	---	1
299+50ZB	LT & RT	---	2
302+50ZB	LT & RT	---	2
305+50ZB	LT & RT	---	3
308+00ZB	RT	---	1
284+36ZA	LT	---	1
284+05ZG	LT & RT	---	2
21+02MB	LT & RT	---	2
23+50MB	RT	---	1
	TOTALS	1	47

STORM SEWER PIPE REINFORCED CONCRETE AND CONCRETE COLLARS FOR PIPE

FROM		TO	608.0312 12-INCH CLASS III LF	608.0412 12-INCH CLASS IV LF	608.0318 18-INCH CLASS III LF	*520.8000 CONCRETE COLLARS FOR PIPE EACH	SPV.0060.03 PIPE CONNECTION TO EXISTING STORM SEWER EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
11.1	-	11.2	83	---	---	---	---	1092.56	1089.25	0.0399
12.1	-	12.2	5	---	---	---	---	1095.70	1095.65	0.0100
12.2	-	12.3	42	---	---	---	---	1095.65	1094.80	0.0202
12.3	-	12.4	17	---	---	---	---	1094.81	1094.30	0.0300
13.1	-	13.2	27	---	---	---	---	1095.74	1094.70	0.0385
14.1	-	14.2	31	---	---	---	---	1094.72	1094.41	0.0100
14.2	-	14.3	5	---	---	---	---	1094.41	1094.36	0.0100
14.3	-	14.4	60	---	---	---	---	1094.36	1093.46	0.0150
14.4	-	14.5	35	---	---	---	---	1093.46	1092.58	0.0251
15.1	-	EXIST PIPE	43	---	---	---	1	1093.46	1092.58	0.0205
16.1	-	16.2	14	---	---	---	---	1093.60	1092.91	0.0493
EXIST PIPE	-	16.2	---	---	6	1	---	1092.49	1092.41	0.0133
16.2	-	16.3	---	---	22	---	---	1092.41	1092.14	0.0123
16.3	-	EXIST PIPE	---	---	9	1	---	1092.14	1092.02	0.0133
25.1	-	25.2	---	44	---	---	---	1095.34	1094.90	0.0100
25.2	-	25.3	---	24	---	---	---	1094.90	1093.14	0.0733
25.3	-	25.4	---	25	---	---	---	1093.14	1092.23	0.0364
26.1	-	26.2	32	---	---	---	---	1092.11	1091.14	0.0303
27.1	-	27.2	7	---	---	---	---	1089.31	1089.11	0.0286
27.2	-	27.3	21	---	---	---	---	1089.11	1088.48	0.0300
27.3	-	27.4	33	---	---	---	---	1088.48	1087.48	0.0303
28.1	-	28.2	---	25	---	---	---	1085.53	1083.78	0.0700
28.2	-	28.3	---	22	---	---	---	1083.78	1083.12	0.0300
29.1	-	29.2	---	25	---	---	---	1080.61	1079.36	0.0500
29.2	-	29.3	---	9	---	---	---	1079.36	1079.33	0.0033
30.1	-	30.2	8	---	---	---	---	1075.94	1075.90	0.0050
101+84EB LT		INLET REMOVAL	---	---	10	2	---			
107+63EB LT		INLET REMOVAL	10	---	---	2	---			
108+92EB LT		INLET REMOVAL	10	---	---	2	---			
110+05EB LT		INLET REMOVAL	10	---	---	2	---			
111+56EB LT		INLET REMOVAL	10	---	---	2	---			
		TOTALS	503	174	47	12	1			

*SEE CROSS DRAINS FOR ADDITIONAL QUANTITIES

RECONSTRUCTING MANHOLES AND ADJUSTING INLET COVERS

STATION	LOCATION	RECONSTRUCTING MANHOLES 611.0420 EACH	ADJUSTING INLET COVERS 611.812 EACH	REMARKS
99+31EB	RT	---	1	
108+93EB	LT	1	---	INLET 22.1
	TOTAL	1	1	

SEE CROSS DRAINS FOR ADDITIONAL QUANTITIES
* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE
** FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE
*** DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6 -INCH ADJUSTMENT RING HEIGHT

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	522.1012 APRON ENDWALLS FOR CP RC 12-INCH EACH	INLETS 611.3003 3-FT EACH	INLETS 611.3004 4-FT EACH	INLETS 611.3225 2X2.5-FT EACH	INLETS 611.3230 2X3-FT EACH	INLET COVERS 611.0624 TYPE H EACH	INLET COVERS 611.0627 TYPE HM EACH	INLET COVERS 611.0652 TYPE T EACH	INLET COVERS 611.0666 TYPE Z EACH	# 633.5200 MARKERS CULVERT END EACH	SPV.0060.02 INLET CONNECTION TO EXISTING STORM SEWER EACH	RIM ELEVATION	INVERT** ELEVATION	DEPTH*** FT
11.1	96+61.72WB	29.52' LT	---	---	1	---	---	1	---	---	---	---	---	1099.85	1092.56	7.29
11.2	282+95.24ZG	23.03' RT	1	---	---	---	---	---	---	---	---	1	---	---	1089.25	---
12.1	97+84.06EB	21.75' LT	---	1	---	---	---	---	---	---	1	---	---	1099.56	1095.70	2.94
12.2	97+84.24WB	0.75' RT	---	1	---	---	---	---	---	---	1	---	---	1099.51	1095.65	2.94
12.3	97+84.23WB	41.26' LT	---	---	---	---	1	---	1	---	---	---	---	1098.69	1094.80	3.05
12.4	97+85.60WB	58.08' LT	1	---	---	---	---	---	---	---	---	1	---	---	1095.46	---
13.1	97+89.18EB	37.50' RT	---	---	---	---	1	1	---	---	---	---	---	1098.74	1095.74	2.17
13.2	97+89.18EB	64.70' RT	1	---	---	---	---	---	---	---	---	1	---	---	1095.87	---
14.1	99+58.03EB	0.74' LT	---	1	---	---	---	---	---	---	1	---	---	1098.74	1094.72	3.10
14.2	99+35.13EB	21.75' LT	---	1	---	---	---	---	---	---	1	---	---	1098.91	1094.41	3.58
14.3	99+35.04WB	1.27' RT	---	1	---	---	---	---	---	---	1	---	---	1098.99	1094.36	3.71
14.4	98+89.48WB	37.54' LT	---	---	1	---	---	---	1	---	---	---	---	1098.24	1093.46	3.95
14.5	98+67.21WB	64.74' LT	1	---	---	---	---	---	---	---	---	1	---	---	1093.75	---
15.1	23+49.77MB	24.93' RT	---	---	1	---	---	1	---	---	---	---	---	1096.88	1091.90	4.14
16.1	101+70.86WB	21.75' RT	---	1	---	---	---	---	---	---	1	---	---	1097.96	1093.60	3.45
16.2	101+84.56WB	21.75' RT	---	1	---	---	---	---	---	---	1	---	---	1097.98	1092.41	4.69
16.3	101+84.41WB	0.75' RT	---	1	---	---	---	---	---	---	1	---	---	1098.40	1092.14	5.39
17.1	101+84.51EB	77.23' LT	---	---	---	---	1	1	---	---	---	---	1	1097.21	1092.26	3.95
18.1	102+03.89WB	49.50' LT	---	---	---	---	1	1	---	---	---	---	1	1097.27	1092.30	3.97
19.1	106+82.80EB	57.41' LT	---	---	---	---	1	1	---	---	---	---	1	1097.23	1092.51	3.71
20.1	107+63.54EB	57.06' LT	---	---	---	---	1	1	---	---	---	---	1	1097.43	1093.10	3.32
21.1	107+83.02EB	57.06' LT	---	---	---	---	1	1	---	---	---	---	1	1097.51	1093.13	3.38
22.1	108+93.09EB	57.06' LT	---	---	---	---	---	1	---	---	---	---	1	1097.81	1092.81	4.00
23.1	109+14.04EB	57.07' LT	---	---	---	---	1	1	---	---	---	---	---	1097.90	1093.31	3.59
24.1	110+34.21EB	57.08' LT	---	---	---	---	1	1	---	---	---	---	1	1098.27	1093.50	3.77
25.1	284+36.42ZA	25.50' LT	---	---	1	---	---	1	---	---	---	---	---	1098.34	1095.34	2.17
25.2	283+99.40ZA	2.53' LT	---	---	---	---	1	---	1	---	---	---	---	1099.16	1094.90	3.43
25.3	284+06.07ZA	1.74' RT	---	---	---	1	---	---	---	1	---	---	---	1098.50	1093.14	4.45
25.4	284+06.07ZA	26.50' RT	1	---	---	---	---	---	---	---	---	1	---	---	1093.39	---
26.1	308+00.00ZA	1.50' RT	---	---	---	---	1	1	---	---	---		---	1098.63	1092.11	5.68
26.2	308+00.00ZA	33.84' RT	1	---	---	---	---	---	---	---	---	1	---	---	1092.31	---
27.1	305+49.97ZA	26.29' LT	---	---	---	---	1	1	---	---	---		---	1094.05	1089.31	3.90
27.2	305+50.00ZA	19.50' LT	---	---	---	---	1	1	---	---	---	---	---	1093.89	1089.11	3.95
27.3	305+50.00ZA	1.50' RT	---	---	---	---	1	1	---	---	---	---	---	1093.56	1088.48	4.25
27.4	305+50.00ZA	34.58' RT	1	---	---	---	---	---	---	---	---	1	---	---	1088.65	---
28.1	302+50.00ZA	23.50' LT	---	---	---	---	1	1	---	---	---		---	1088.66	1085.53	2.30
28.2	302+50.00ZA	1.50' RT	---	---	---	---	1	1	---	---	---	---	---	1086.73	1083.78	2.12
28.3	302+50.00ZA	23.41' RT	1	---	---	---	---	---	---	---	---	1	---	---	1084.29	---
29.1	299+50.00ZA	23.50' LT	---	---	---	---	1	1	---	---	---		---	1083.67	1080.61	2.22
29.2	299+50.00ZA	1.50' RT	---	---	---	---	1	1	---	---	---	---	---	1081.76	1079.36	1.57
29.3	299+50.00ZA	10.06' RT	1	---	---	---	---	---	---	---	---	1	---	---	1080.50	---
30.1	297+50.00ZA	1.15' RT	---	---	---	---	1	1	---	---	---		---	1078.54	1075.94	1.77
30.2	297+50.00ZA	9.03' RT	1	---	---	---	---	---	---	---	---	---	---	---	1077.07	---
		TOTALS	**10**	**8**	**4**	**1**	**19**	**21**	**3**	**1**	**8**	**9**	**7**			

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

SIGNS TYPE I

SIGN NO.	SIGN CODE	MESSAGE	SIZE	637.1220 SIGNS TYPE I REFLECTIVE SH SF	REMARKS
3-17	D15-1	NORTH 39 WEST 10 NORTH 51 EAST 66 ARROW	144"X90"	90.00	S-49-29
5-03	E6-53	NORTH 39 WEST 10 NORTH 51 EAST 66 ARROW	168"X102"	118.30	S-49-30
			TOTAL	**208.30**	

SIGNS TYPE II

SIGN NO.	SIGN CODE	MESSAGE	SIZE	634.0808 POSTS TUBULAR STEEL 2X2-INCH X 8-FT EACH	POSTS WOOD 4X6-INCH 634.0614 14-FT EACH	634.0616 16-FT EACH	634.0618 18-FT EACH	634.0620 20-FT EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF	637.2210 SIGNS TYPE II REFLECTIVE H SF	638.2102 MOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.2602 REMOVING SIGNS TYPE II EACH	REMARKS
3-08	---	STOP	---	---	---	---	---	---	---	---	---	1	1	REMOVE
3-09	R10-11B	NO TURN ON RED	24"X24"	---	1	---	---	---	---	4.00	---	---	---	ON SIGNAL POLE
3-10	R1-1F	STOP	36"X36"	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
3-11	R1-1F	STOP	36"X36"	---	---	---	---	---	---	7.46	---	---	---	---
3-12	---	NO RIGHT TURN	---	---	---	---	---	---	---	---	---	1	1	REMOVE
3-13	D1-71	SOUTH 39 51 MADISON, NORTH 39 51 WAUSAU MARSHFIELD	120"X90"	---	---	---	---	2	---	75.00	---	---	---	---
3-14	---	YIELD	---	---	---	---	---	---	---	---	---	1	1	REMOVE
3-15	---	RAMP CLOSED USE ALT ROUTE	---	---	---	---	---	---	---	---	1	---	---	MOVE
3-16	W12-1D	DOUBLE DIAGONAL ARROW	24"X24"	1	---	---	---	---	4.00	---	---	---	---	---
3-18	---	WEST 66 AHEAD ARROW	---	---	---	---	---	---	---	---	---	1	1	REMOVE
3-19	---	WIS RAPIDS, WAUSAU, MARSHFIELD	---	---	---	---	---	---	---	---	---	2	1	REMOVE
4-01	J3-4	NORTH 39 51 WEST 10 EAST 66 AHEAD ARROWS	96"X57"	---	---	---	1	1	---	38.00	---	2	1	---
4-02	---	STOP	---	---	---	---	---	---	---	---	---	1	1	REMOVE
4-03	R1-1F	STOP	36"X36"	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
4-04	---	DIVIDED HIGHWAY, STOP	---	---	---	---	---	---	---	---	---	---	1	ON SIGNAL POLE
4-05	R1-1F	STOP	36"X36"	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
4-06	R6-3	DIVIDED HIGHWAY	30X24"	---	---	---	---	---	---	5.00	---	---	---	ON SIGNAL POLE
4-07	---	DOUBLE DIAGONAL ARROW	---	---	---	---	---	---	---	---	---	1	1	REMOVE
4-08	W12-1D	DOUBLE DIAGONAL ARROW	24"X24"	1	---	---	---	---	4.00	---	---	---	---	---
4-09	---	YIELD	---	---	---	---	---	---	---	---	---	1	1	REMOVE
4-10	R1-2	YIELD	48"X42"	---	---	---	---	---	---	7.00	---	---	---	ON LIGHT POLE
4-11	R1-1F	STOP	36"X36"	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
4-12	W12-1D	DOUBLE DIAGONAL ARROW	24"X24"	---	---	---	---	---	4.00	---	---	---	---	ON SIGNAL POLE
4-13	---	DOUBLE DIAGONAL ARROW	---	---	---	---	---	---	---	---	---	1	1	REMOVE
4-14	R1-1F	STOP	36"X36"	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
4-15	R1-1F	STOP	36"X36"	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
4-16	D1-52	VEHICLE REGISTRATION, DRIVER LICENSING	108"X24"	---	2	---	---	---	---	18.00	---	---	---	---
4-17	---	VEHICLE REGISTRATION, DRIVER LICENSING	---	---	---	---	---	---	---	---	---	2	1	REMOVE
4-18	R3-20L	BEGIN LEFT TURN LANE	24"X36"	---	1	---	---	---	---	6.00	---	---	---	---
4-19	R3-20R	BEGIN RIGHT TURN LANE	24"X36"	---	1	---	---	---	---	6.00	---	---	---	---
4-20	---	NORTH 39 51 EAST 66 SECOND RIGHT	---	---	---	---	---	---	---	---	---	2	1	REMOVE
4-21	---	WRONG WAY	---	---	---	---	---	---	---	---	1	---	---	MOVE
			SUBTOTALS	**2**	**5**		**1**	**3**	**12.00**	**211.22**	**2**	**16**	**13**	

CONTINUED ON NEXT PAGE

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

SIGNS TYPE II

SIGN NO.	SIGN CODE	MESSAGE	SIZE	634.0808 POSTS TUBULAR STEEL 2X2-INCH X 8-FT EACH	POSTS WOOD 4X6-INCH 634.0614 14-FT EACH	634.0616 16-FT EACH	634.0618 18-FT EACH	634.0620 20-FT EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF	637.2210 SIGNS TYPE II REFLECTIVE H SF	638.2102 MOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.2602 REMOVING SIGNS TYPE II EACH	REMARKS
4-22	---	DO NOT ENTER	---	---	---	---	---	---	---	---	1	---	---	MOVE
4-23	---	STOP, KEEP RIGHT	---	---	---	---	---	---	---	---	---	---	1	ON SIGNAL POLE
4-24	R1-1F	STOP	36"X36"	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
4-25	R1-1F	STOP	36"X36"	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
4-26	---	DOUBLE DIAGONAL ARROW	---	---	---	---	---	---	---	---	1	---	---	MOVE
4-27	R1-1F	STOP	36"X36"	---	---	---	---	---	---	7.46	---	---	1	ON SIGNAL POLE
4-28	R1-2	YIELD	48"X42"	---	---	---	---	---	---	7.00	---	---	---	ON LIGHT POLE
4-29	---	YIELD	---	---	---	---	---	---	---	---	---	1	1	REMOVE
4-30	R4-7	KEEP RIGHT SYMBOL	24"X30"	---	---	---	---	---	---	5.00	---	---	---	ON SIGNAL POLE
4-31	R4-7	KEEP RIGHT SYMBOL	24"X30"	---	---	---	---	---	---	5.00	---	---	---	ON SIGNAL POLE
4-32	W12-1D	DOUBLE DIAGONAL ARROW	24"X24"	1	---	---	---	---	4.00	---	---	1	1	
4-33	---	DIVIDED HIGHWAY, STOP	---	---	---	---	---	---	---	---	---	---	1	ON SIGNAL POLE
4-34	R1-1F	STOP	36"X36"	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
4-35	R6-3	DIVIDED HIGHWAY	30"X24"	---	---	---	---	---	---	5.00	---	---	---	ON SIGNAL POLE
4-36	R1-1F	STOP	36"X36"	---	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
4-37	---	STOP	---	---	---	---	---	---	---	---	---	1	1	REMOVE
4-38	---	STOP, KEEP RIGHT	---	---	---	---	---	---	---	---	---	---	1	ON SIGNAL POLE
4-39	J4-1	EAST, USH 10	24"X36"	---	1	---	---	---	---	6.00	---	---	---	---
5-01	---	SIGNAL AHEAD	---	---	---	---	---	---	---	---	1	---	---	ON LIGHT POLE
5-02	---	BEGIN RIGHT TURN LANE	---	---	---	---	---	---	---	---	---	1	1	REMOVE
6-01	---	SPEED LIMIT 40	---	---	---	---	---	---	---	---	1	---	---	MOVE
6-02	---	JCT, IH 39, USH 10, STH 66	---	---	---	---	---	---	---	---	---	2	1	REMOVE
6-03	J1-3	JCT, IH 39, USH 10, STH 66	72"X39"	---	2	---	---	---	---	19.50	---	---	---	---
7-01	---	WRONG WAY	---	---	---	---	---	---	---	---	1	---	---	MOVE
7-02	---	UW STEVENS POINT	---	---	---	---	---	---	---	---	1	---	---	MOVE
7-03	---	NIGHT ARROW	---	---	---	---	---	---	---	---	1	---	---	MOVE
7-04	---	NON MOTORIZED TRAFFIC PROHIBITED	---	---	---	---	---	---	---	---	1	---	---	MOVE
7-05	W4-2L	LEFT LANE ENDS SYMBOL	36"X36"	---	1	---	---	---	9.00	---	---	---	---	---
7-06	W9-1L	LEFT LANE ENDS	36"X36"	---	1	---	---	---	9.00	---	---	---	---	---
8-01	W3-3	TRAFFIC SIGNALS AHEAD SYMBOL	36"X36"	---	---	---	---	---	9.00	---	---	1	1	---
10-01	R3-20R	BEGIN RIGHT TURN LANE	24"X36"	---	---	1	---	---	---	6.00	---	---	---	---
10-02	R3-8	LANE DESIGNATION	36"X30"	---	---	1	---	---	---	7.50	---	---	---	---
10-03	---	SIGNAL AHEAD	---	---	---	---	---	---	---	---	---	1	1	REMOVE
		SUBTOTALS		**1**	**5**	**2**	**0**	**0**	**31.00**	**98.30**	**8**	**8**	**11**	
		TOTALS		**3**	**10**	**2**	**1**	**3**	**43.00**	**309.52**	**10**	**24**	**24**	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

3

MARKING LINE GROOVED WET REF EPOXY

STATION	-	STATION	LOCATION	646.1040 4-INCH WHITE LF	646.1040 4-INCH YELLOW LF	CONTRAST 646.1545 4-INCH LF	CONTRAST 646.3545 8-INCH LF
96+64	-	99+65	WB	---	---	---	384
97+00	-	99+63	EB	---	---	66	---
97+00	-	99+63	WB	---	---	66	---
99+40	-	100+67	INTERSECTION MINI DASHES	---	88	---	---
283+23	-	285+07	ZA	48	184	---	174
285+07	-	289+75	ZA	468	468	---	101
302+45	-	309+25	ZB	680	680	---	---
			SUBTOTAL	1196	1420		
			TOTAL	**2616**		**132**	**659**

MARKING LINE EPOXY

STATION	-	STATION	LOCATION	646.1020 4-INCH WHITE LF	646.1020 4-INCH YELLOW LF	646.3020 8-INCH WHITE LF
97+00	-	99+63	EB	66	230	426
97+00	-	99+63	WB	---	226	---
100+42	-	105+25	EB	121	214	---
100+42	-	116+75	WB	658	1934	358
105+25	-	116+75	EB	---	1438	---
20+87	-	21+74	MB	---	174	241
22+93	-	27+04	MB	711	822	486
289+75	-	295+00	ZA	525	525	---
298+00	-	302+45	ZB	445	445	---
			SUBTOTAL	2526	6007	
			TOTAL	**8533**		**1511**

MARKING CROSSWALK EPOXY TRANSVERSE LINE

STATION	LOCATION	646.7420 6-INCH LF	REMARKS
99+58	EB RT	42	RIGHT TURN LANE
100+00	EB RT	106	OLD HWY 18 RD
100+38	EB RT & LT	86	USH 10 EB
100+38	WB LT	78	USH 10 WB
100+44	WB LT	40	RIGHT TURN LANE
100+62	EB RT	60	RIGHT TURN LANE
	TOTAL	412	

MARKING STOP LINE EPOXY 18-INCH

STATION	LOCATION	646.6120 LF	REMARKS
99+29	EB LT	13	LEFT TURN LANE
99+63	EB RT	24	
100+42	WB LT	36	
100+74	WB RT	13	LEFT TURN LANE
309+25	ZB RT	18	
21+73	MB RT	26	
21+73	MB RT	18	RIGHT TURN LANE
22+93	MB LT	24	
22+96	MB LT	24	RIGHT TURN LANE
	TOTAL	196	

MARKING ARROW & WORD EPOXY

STATION	LOCATION	646.5020 ARROW EACH	646.5120 WORD EACH	REMARKS
97+32	WB LT	1	---	TYPE 2
97+54	EB RT	1	---	TYPE 2
97+73	WB LT	---	1	
97+88	EB LT	1	---	TYPE 2
98+60	EB LT	---	1	
98+77	EB RT	---	1	
98+77	WB LT	1	---	TYPE 2
99+01	EB LT	1	---	TYPE 2
99+18	EB RT	1	---	TYPE 2 RETRACE
101+02	WB LT	1	---	TYPE 2
101+22	WB LT	1	---	TYPE 2
101+62	WB LT	---	1	
101+71	WB RT	1	---	TYPE 2
102+41	WB LT	1	---	TYPE 2
103+98	MEDIAN	2	---	TYPE 2
107+67	MEDIAN	2	---	TYPE 2
113+71	MEDIAN	2	---	TYPE 2
286+53	ZA LT	1	---	TYPE 5
306+93	ZB LT	1	---	TYPE 4
21+46	MB RT	3	---	TYPE 1 & TYPE 2
23+22	MB LT	3	---	TYPE 1 & TYPE 2
23+62	MB LT	---	1	
24+25	MB LT	3	---	TYPE 1 & TYPE 2
25+51	MB LT	2	---	TYPE 2 & TYPE 3
	TOTAL	29	5	

MARKING DIAGONAL EPOXY 12-INCH

STATION - STATION	LOCATION	646.7120 LF	REMARKS
96+72 - 98+22	WB LT	81	IH 39 NB ON RAMP
	TOTAL	81	

MARKING ISLAND NOSE & CURB EPOXY

STATION	LOCATION	646.8220 ISLAND NOSE EPOXY EACH	646.8120 CURB EPOXY LF	REMARKS
99+37	WB RT	1	19	
100+71	EB LT	1	13	
103+57	WB RT	1	19	
	TOTAL	3	51	

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TOPSOIL, SEED, FERTILIZER AND EROSION MAT

STATION - STATION	LOCATION	625.0100 TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE #30 LB	630.0140 SEEDING MIXTURE #40 LB	628.2008 URBAN CLASS I TYPE B SY	628.2004 CLASS I TYPE B SY	SPV.0030.01 FERTILIZER FOR LAWN TYPE TURF CWT	SPV.0180.01 PREPARING TOPSOIL FOR LAWN TYPE TURF SY	REMARKS
97+00EB - 99+62EB	RT	137	---	---	2.5	137	---	0.09	137	TERRACE
97+00EB - 99+62EB	RT	680	0.43	12.2	---	---	680	---	---	DITCH
98+25WB - 99+43WB	LT	388	0.24	7.0	---	---	388	---	---	
100+24WB - 103+57WB	LT	588	---	---	10.6	588	---	0.37	588	
100+71EB - 100+95EB	RT	11	---	---	0.2	11	---	0.01	11	CURB RAMP
106+64EB - 108+32EB	LT	289	---	---	5.2	289	---	0.18	289	
108+69EB - 109+86EB	LT	228	---	---	4.1	228	---	0.14	228	
110+25EB - 112+15EB	LT	168	---	---	3.0	168	---	0.11	168	
284+61ZA - 289+75ZA	RT	449	0.28	8.1	---	---	449	---	---	
299+37ZB - 308+50ZB	LT	2029	1.28	36.5	---	---	2029	---	---	
308+50ZB - 309+46ZB	RT	498	0.31	9.0	---	---	498	---	---	INCLUDES RADIUS
306+13ZB - 309+35ZB	LT	673	0.42	---	12.1	---	673	---	---	MEDIAN
281+42ZG - 284+61ZG	RT	1154	0.73	20.8	---	---	1154	---	---	RADIUS
23+25MB - 27+03MB	LT	388	0.24	7.0	---	---	388	---	---	
301+00ZB - 307+43ZB	RT	1443	0.91	26.0	---	---	1443	---	---	TEMPORARY RAMP
	TOTAL	9124	4.85	126.5	37.7	1422	7701	0.90	1422	

TEMPORARY DETECTABLE WARNING FIELD

STATION	LOCATION	SPV.0045.01 DAY	REMARKS
99+44EB	RT	56	STAGE 4, 4A, 4B, 4C, 4D
100+32EB	RT	56	STAGE 4, 4A, 4B, 4C, 4D
100+38EB	RT	56	STAGE 4, 4A, 4B, 4C, 4D
100+50EB	RT	56	STAGE 4, 4B, 4C, 4D
100+83EB	RT	56	STAGE 4, 4B, 4C, 4D
TOTAL		280	

CULVERT PIPE CHECKS

STATION	LOCATION	628.7555 EACH
25+75MB	RT	2
TOTAL		2

TEMPORARY DITCH CHECKS

STATION	LOCATION	628.7504 LF	REMARKS
97+78EB	RT	6	STAGE 4
303+50ZB-EX	RT	8	STAGE 2
304+75ZB-EX	RT	8	STAGE 2
305+75ZB-EX	RT	8	STAGE 2
306+50ZB-EX	ET	8	STAGE 2
308+50ZB	RT	8	STAGE 4
TOTAL		46	

RIPRAP AND GEOTEXTILE FABRIC

STATION	LOCATION	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE TYPE HR SY	REMARKS
97+85WB	LT	4	16	
98+61WB	LT	5	19	
284+05ZG	RT	7	26	
26+05MB	LT	14	40	ENDWALL
TOTAL		31	101	

MOBILIZATIONS EROSION CONTROL

STATION - STATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	REMARKS
97+00EB - 112+25EB	3	1	STAGE 2, 3, 5
299+00ZB - 309+00ZB	1	1	STAGE 1 & 3
TOTALS	4	2	

EROSION BALES

STATION	LOCATION	628.1104 EROSION BALES EACH	REMARKS
301+00ZB-EX	RT	8	STAGE 2
TOTAL		8	

SEED WATER

STATION - STATION	LOCATION	WEEKS	630.0500 MGAL	REMARKS
UNDISTRIBUTED		4	31.9	
TOTAL			31.9	

SILT FENCE

STATION	LOCATION	628.1504 LF	628.1520 MAINTENANCE LF	REMARKS
98+00WB	LT	645	645	STAGE 3
284+00ZA	RT	226	226	STAGE 3
TOTALS		871	871	

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TRAFFIC CONTROL

LOCATION	STAGE DAYS	643.0300 DRUMS QTY	643.0300 DRUMS DAY	643.0420 BARRICADES TYPE III QTY	643.0420 BARRICADES TYPE III DAY	643.0705 WARNING LIGHTS TYPE A QTY	643.0705 WARNING LIGHTS TYPE A DAY	643.0715 WARNING LIGHTS TYPE C QTY	643.0715 WARNING LIGHTS TYPE C DAY	643.0800 ARROW BOARDS QTY	643.0800 ARROW BOARDS DAY	643.0900 TRAFFIC CONTROL SIGNS QTY	643.0900 TRAFFIC CONTROL SIGNS DAY	REMARKS
STAGE 1 NB RAMP CLOSURE	4	62	248	7	28	14	56	4	16	0	0	94	376	INCLUDES DETOUR
STAGE 1 SUBTOTAL			248		28		56		16		0		376	
STAGE 2	7	175	1225	8	56	16	112	7	49	1	7	15	105	
STAGE 2 SUBTOTAL			1225		56		112		49		7		105	
STAGE 3	67	152	10184	7	469	14	938	6	402	0	0	92	6164	
STAGE 3 SUBTOTAL			10184		469		938		402		0		6164	
STAGE 4	67	132	8844	17	1139	34	2278	22	1474	0	0	92	6164	
STAGE 4D - AUXILLARY LANE	19	124	2356	6	114	12	228	14	266	0	0	14	266	ADDITIONAL DEVICES
STAGE 4 SUBTOTAL			11200		1253		2506		1740		0		6430	
STAGE 5	21	130	2730	11	231	22	462	10	210	0	0	65	1365	
STAGE 5 STH 66 WB DETOUR	10	35	350	4	40	8	80	0	0	0	0	36	360	
STAGE 5 USH 10 EB/STH 66 EB DETOUR	15	44	660	4	60	8	120	0	0	0	0	143	2145	
STAGE 5 SUBTOTAL			3740		331		662		210		0		3870	
TOTALS			**26597**		**2137**		**4274**		**2417**		**7**		**16945**	

TRAFFIC CONTROL SIGNS FIXED MESSAGE

MESSAGE	SIZE	QTY	643.1000 SF	REMARKS
NEAR LANE	24"X24"	4	16.00	
FAR LANE	24"X24"	4	16.00	
LEFT LANE	54"X12"	2	9.00	
RIGHT LANE	60"X12"	2	10.00	
LANE SPLIT	60"X12"	1	5.00	
MAPLE BLUFF RD RT ARROW	84"X15"	1	8.75	
MAPLE BLUFF RD LT ARROW	84"X15"	1	8.75	
	TOTAL		**73.50**	

TRAFFIC CONTROL COVERING SIGNS

LOCATION	CYCLES	NUMBER OF SIGNS	643.0920 TYPE II EACH	REMARKS
103+00 EB RT	1	1	1	STAGE 4D
114+00 EB LT	1	1	1	STAGE 4D
98+25 WB LT	1	1	1	STAGE 5
105+75 WB LT	1	1	1	STAGE 5
123+60 EB LT	1	1	1	STAGE 5
	TOTALS		**5**	

TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS & BASES

STATION		STATION	LOCATION	SPACING FT	643.0500 TUBULAR MARKER POSTS EACH	643.0600 TUBULAR MARKER BASES EACH	REMARKS
97+00	-	99+44	EBEX RT	25	15	15	STAGE 3
100+57	-	102+07	EBEX RT	25	7	7	STAGE 3
284+09	-	288+25	ZA LT	25	17	17	STAGE 3E
94+75	-	99+09	EBEX LT	25	25	25	STAGE 4/5
100+68	-	101+94	EBEX LT	25	6	6	
			TOTALS		**70**	**70**	

TEMPORARY PEDESTRIAN

STATION		STATION	LOCATION	STAGE DAYS	644.1430 TEMPORARY PEDESTRIAN SURFACE PLATE SF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP QTY	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF	REMARKS
100+35	-	103+90	WB LT	---	---	---	---	708	STAGE 3
97+00	-	99+46	EB RT	---	---	---	---	418	STAGE 4 TO STAGE 4D
100+31	-	100+52	EB RT	---	---	---	---	45	STAGE 4 TO STAGE 4D
100+81	-	101+35	EB RT	70	30	1	70	117	STAGE 4 TO STAGE 4D
			TOTALS		**30**		**70**	**1288**	

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TEMPORARY MARKING PAINT & REMOVABLE TAPE

STATION	-	STATION	LOCATION	APPROXIMATE SERVICE PERIOD	649.0105 PAINT 4-INCH WHITE LF	649.0105 PAINT 4-INCH YELLOW LF	649.0205 PAINT 8-INCH LF	649.0150 TAPE 4-INCH WHITE LF	649.0150 TAPE 4-INCH YELLOW LF	649.0250 TAPE 8-INCH LF	REMARKS
97+00	-	99+63	EB	12 WEEKS	60	245	97	---	---	---	STAGE 2 TRANSISTION TO STAGE 3
97+00	-	99+63	WB	12 WEEKS	268	460	404	---	---	---	STAGE 3
99+63	-	100+30	INTERSECTION	12 WEEKS	---	---	---	44	40	---	STAGE 3 - INTERSECTION
100+30	-	105+78	WB	12 WEEKS	828	521	425	30	---	---	STAGE 3
100+30	-	102+75	EB	12 WEEKS	113	218	---	---	---	---	STAGE 2 TRANSISTION TO STAGE 3
283+00	-	293+68	ZAT	4 WEEKS	1124	1109	---	---	---	---	STAGE 3
299+38	-	309+62	ZBT	8 WEEKS	1055	1054	---	---	---	---	STAGE 3
22+52	-	25+37	MB	4 WEEKS	---	---	---	311	490	42	STAGE 3
100+30	-	103+13	WB	6 WEEKS	---	---	---	344	---	227	STAGE 3
22+27	-	25+37	MB	2 WEEKS	---	---	---	---	539	---	STAGE 3A
22+27	-	25+37	MB	2 WEEKS	---	---	---	135	---	150	STAGE 3B
22+50	-	28+29	MB	2 WEEKS	---	---	---	603	776	65	STAGE 3C
96+73	-	99+20	WB	16 WEEKS	---	---	247	---	---	---	STAGE 3D
99+20	-	100+15	INTERSECTION	3 WEEKS	---	---	---	151	---	---	STAGE 3D
100+57	-	107+78	WB	6 WEEKS	579	---	603	---	---	---	STAGE 3D
283+78	-	295+35	ZA	14 WEEKS	1080	1447	---	---	---	---	STAGE 3D
22+93	-	25+37	MB	14 WEEKS	---	488	485	---	---	---	STAGE 3E
299+38	-	309+87	ZB	2 WEEKS	438	461	---	689	155	---	STAGE 3E
96+72	-	99+21	WB	16 WEEKS	---	---	---	---	344	---	STAGE 3F
99+21	-	100+58	INTERSECTION	3 WEEKS	---	---	---	38	30	---	STAGE 3F
100+58	-	108+00	WB	16 WEEKS	50	523	357	---	---	---	STAGE 3F
284+08	-	291+42	ZA	16 WEEKS	681	721	---	---	---	---	STAGE 3F
303+70	-	309+25	ZB	16 WEEKS	565	565	---	---	---	---	STAGE 3F
97+00	-	99+27	EB	16 WEEKS	---	---	---	453	227	226	STAGE 3G
99+27	-	100+58	INTERSECTION	16 WEEKS	---	20	---	---	---	---	STAGE 3G
100+58	-	105+50	EB	16 WEEKS	---	---	---	923	492	---	STAGE 3G
99+46	-	101+25	EB	6 WEEKS	---	---	---	375	---	---	STAGE 4
20+00	-	22+25	MB	2 WEEKS	---	---	---	383	675	125	STAGE 4A - INCLUDES INTERSECTION SKIPS
20+00	-	21+25	MB	2 WEEKS	---	---	---	110	---	77	STAGE 4B
20+00	-	22+00	MB	2 WEEKS	---	---	---	---	758	87	STAGE 4C - INCLUDES INTERSECTION SKIPS
20+00	-	21+75	MB	3 WEEKS	---	---	---	---	370	215	STAGE 4D - INCLUDES INTERSECTION SKIPS
105+48	-	116+72	WB	3 WEEKS	---	---	---	1796	1125	---	STAGE 4D
99+26	-	100+84	EB	3 WEEKS	---	---	---	189	---	---	STAGE 4E
97+00	-	99+40	EB	3 WEEKS	---	---	---	108	---	95	STAGE 4F
270+51		274+75	ZD	3 WEEKS	---	---	---	172	---	452	STAGE 4F
87+00	-	99+40	EB	4 WEEKS	---	---	---	1303	1231	---	STAGE 5
87+00	-	99+40	WB	4 WEEKS	---	---	---	947	760	428	STAGE 5
99+40	-	100+00	EB	4 WEEKS	---	---	---	---	24	---	STAGE 5 - INTERSECTION
100+41	-	104+75	EB	4 WEEKS	---	---	---	100	434	---	STAGE 5
286+50	-	296+25	ZA	2 WEEKS	---	---	---	987	962	---	STAGE 5 - IH 39 NB OFF RAMP CLOSURE
95+88	-	99+40	EB	2 WEEKS	---	---	---	88	---	114	STAGE 5A
101+92	-	102+83	WB	2 WEEKS	---	---	---	---	---	185	STAGE 5A
				SUBTOTAL	**6841**	**7832**		**10280**	**9431**		
				TOTALS	**14673**		**2618**	**19711**		**2488**	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

3

MARKING REMOVAL LINE & WATER BLASTING

STATION	-	STATION	LOCATION	646.9000 LINE 4-INCH LF	646.9010 WATER BLASTING 4-INCH LF	646.9100 LINE 8-INCH LF	646.9110 WATER BLASTING 8-INCH LF	REMARKS
95+77	-	99+29	EB LT	662	---	---	---	STAGE 3
97+00	-	99+40	EB RT	60	---	192	---	STAGE 2 TRANSISTION TO STAGE 3
100+42	-	102+75	EB RT	---	59	---	---	STAGE 2 TRANSISTION TO STAGE 3
100+58	-	105+79	WB	258	412	---	135	STAGE 3
22+93	-	25+37	MB	---	63	---	112	STAGE 3
25+37	-	28+29	MB CL	292	---	---	---	STAGE 3C
102+50	-	105+50	EB	---	411	---	---	STAGE 3G
20+00	-	22+25	MB	---	343	---	86	STAGE 4A
105+48	-	116+72	WB	---	1650	---	---	STAGE 4D
			TOTAL	1272	2938	192	333	

MARKING REMOVAL SPECIAL MARKING

STATION	LOCATION	646.9300 SPECIAL MARKING EACH	646.9310 SPECIAL MARKING WATER BLASTING EACH	REMARKS - EXISTING MARKING
97+50 - 99+17	EB LT	4	---	STAGE 2 - LEFT TURN LANE
23+22	MB LT	2	---	STAGE 3 - ARROWS
104+00	MEDIAN	2	---	STAGE 3 - TWLTL ARROWS
21+08	MB RT	---	1	STAGE 4A
107+65	WB	2	---	STAGE 4D - TWLTL ARROWS
113+70	WB	2	---	STAGE 4D - TWLTL ARROWS
	TOTAL	12	1	

TRAFFIC CONTROL SIGNS PCMS WITH CELLULAR COMMUNICATIONS

PCMS #	LOCATION	PRIOR TO CLOSURE DAYS	DURING CLOSURE DAYS	643.1051 DAY	REMARKS
10-02	**SEE PCMS MESSAGES**	**7	28	35	STAGE 3, 3D, 3F & 4D
**PRIOR TO CONSTRUCTION IN 2022			TOTAL	35	

TEMPORARY TRAFFIC SIGNALS

STATION - STATION	LOCATION	661.0200 FOR INTERSECTIONS (LOCATION) LS	SPV.0105.05 TEMPORARY VEHICLE DETECTION LS	REMARKS
99+00 - 101+00	USH 10 & MAPLE BLUFF RD	1	1	STAGE 2 TO STAGE 5
	TOTALS	1	1	

TEMPORARY MARKING STOP LINE 18-INCH

STATION	LOCATION	649.0805 PAINT LF	649.0850 REMOVALBLE TAPE LF	REMARKS
21+55	MB RT	15	---	STAGE 2
23+08	MB LT	15	---	STAGE 2
21+50	MB RT	---	12	STAGE 3
100+58	WB	18	---	STAGE 3
23+12	MB LT	---	11	STAGE 3B
22+90	MB LT	---	11	STAGE 3C
100+58	WB	12	---	STAGE 3D
22+93	MB LT	---	12	STAGE 3D
23+25	MB LT	---	27	STAGE 3D
309+18	ZB	22	---	STAGE 3F
99+00	EB	---	10	STAGE 3G
99+25	EB	32	---	STAGE 3G
21+95	MB	---	20	STAGE 4
21+50	MB	---	12	STAGE 4A
21+74	MB	---	6	STAGE 4A
21+55	MB	---	15	STAGE 4B
21+97	MB	---	12	STAGE 4C
21+50	MB	---	12	STAGE 4D
	TOTAL	114	160	

TEMPORARY MARKING ARROW

STATION	LOCATION	649.0505 PAINT EACH	649.0550 REMOVABLE TAPE EACH	REMARKS
21+00	MB RT	---	1	STAGE 3 TYPE 3
21+39	MB RT	---	2	STAGE 3 TYPE 2
23+25	MB LT	---	1	STAGE 3 TYPE 3
23+45	MB LT	---	1	STAGE 3B TYPE 3
24+25	MB LT	2	---	STAGE 3E TYPE 1 & 2
20+70	MB RT	---	1	STAGE 4A TYPE 3
21+30	MB RT	---	1	STAGE 4C TYPE 3
20+58	MB RT	---	1	STAGE 4D TYPE 3
	TOTAL	2	8	

MARKING REMOVAL LINE WIDE

STATION	LOCATION	646.9200 LF	REMARKS - EXISTING MARKING
21+55	MB RT	18	STAGE 2 - STOP LINE
22+94	MB LT	16	STAGE 2 - STOP LINE
22+94	MB LT	16	STAGE 3 - STOP LINE
100+58	EB	13	STAGE 3G - STOP LINE
	TOTAL	63	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

GRADING AND SHAPING CURB RAMPS

STATION	LOCATION	SPV.0060.01 EACH	*COMMON CY	*BORROW CY	REMARKS
100+85	EB RT	1	2	0	
	TOTALS	1	2	0	

*FOR INFORMATION ONLY

STREET SWEEPING

LOCATION	SPV.0075.01 HOUR	REMARKS
USH 10/MAPLE BLUFF RD/OLD HWY 18 RD/RAMPS	30	
TOTAL	30	

ITS CONDUIT, PULL BOXES AND CABLE

FROM	TO	LINEAR DISTANCE	*652.0605 CONDUIT SPECIAL 2-INCH LF	652.0700.S INSTALL CONDUIT INTO EXISTING ITEM EACH	**653.0164 PULL BOXES NON-CONDUCTIVE 24x42-INCH EACH	***653.0905 REMOVING PULL BOXES EACH	SPV.0090.01 REMOVE AND REINSTALL EXISTING CONDUCTORS LF
EPB1001	PB1002	160	320	1	1	2	---
EMB1001	CCTV-49-0013	302	---	---	---	---	302
	TOTALS		320	1	1	2	302

*SEE CONDUIT FOR ADDITIONAL QUANTITIES
**SEE PULL BOXES NON-CONDUCTIVE FOR ADDITIONAL QUANTITIES
***SEE REMOVING PULL BOXES - TRAFFIC SIGNALS FOR ADDITIONAL QUANTITIES

CONSTRUCTION STAKING

STATION	-	STATION	LOCATION	650.4000 STORM SEWER EACH	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB AND GUTTER LF	650.7000 CONCRETE PAVEMENT LF	650.9000 CURB RAMPS EACH	650.9920 SLOPE STAKES LF	REMARKS
97+00	-	99+75	EB	3	371	---	---	200	1	275	
97+00	-	99+76	WB	4	---	---	---	276	---	190	
100+14	-	103+57	WB	6	300	---	---	343	3	315	
106+64	-	112+14	EB	7	550	---	---	550	---	550	
283+03	-	289+75	ZA	2	672	---	---	672	---	672	
289+75	-	294+82	ZA	2	---	---	50	---	---	---	
297+50	-	302+45	ZB	4	---	---	50	---	---	307	
302+45	-	309+37	ZB	7	692	---	---	692	---	692	
281+42	-	284+61	ZG	4	319	---	---	319	---	319	
22+85	-	27+04	MB	---	419	229	---	190	---	419	
299+38	-	308+20	ZBT	---	882	882	---	---	---	882	
283+30	-	286+25	ZAT	---	295	295	---	---	---	---	
			TOTALS	39	4,500	1,406	100	3,242	4	4,621	

SAWING CONCRETE

STATION - STATION	LOCATION	690.0250 LF	REMARKS
99+00EB	RT	39	
99+00EB - 99+76EB	LT	104	
99+50EB - 99+75EB	RT	72	ISLAND
99+76WB	LT	37	
97+00EB - 99+60EB	LT	262	STAGE 2 - MEDIAN
97+00WB - 99+60WB	RT	265	STAGE 2 - MEDIAN
100+36EB - 101+59EB	LT	122	STAGE 2 - MEDIAN
100+36WB - 103+61WB	RT	338	STAGE 2 - MEDIAN
100+14WB - 103+57	LT	358	RIGHT TURN LANE
100+70EB - 100+96EB	RT	35	CURB RAMP
100+26WB - 103+15WB	RT	316	LEFT TURN LANE
106+64EB - 112+14EB	LT	568	AUXILIARY LANE
283+06ZA - 283+37ZA	LT	62	STAGE 1
289+75ZA - 293+66ZA	LT	385	STAGE 1 - MEDIAN
299+38ZBEX - 302+84ZBEX	LT	374	STAGE 1 - MEDIAN
299+38ZBEX - 308+46ZBEX	RT	908	STAGE 1
306+01ZBEX - 308+06ZBEX	LT	210	STAGE 1 - MEDIAN
289+75AZ	LT	15	
293+66ZA - 294+89ZA	LT	123	
298+25ZB - 299+38ZB	LT	119	
302+45	LT	18	
21+21MB - 21+97MB	RT	65	ISLAND
22+70MB - 23+51MB	LT	192	STAGE 2 - MEDIAN
22+71MB - 23+65MB	RT	105	
23+44MB - 24+75MB	LT	145	
	TOTAL	5237	

*SEE CONCRETE PAVEMENT REPAIR FOR ADDITIONAL QUANTITIES

SAWING ASPHALT

STATION	LOCATION	690.0150 LF	REMARKS
103+67EB	LT	23	STAGE 2 - MEDIAN
108+50EB	LT	36	CE
110+00EB	LT	36	CE
24+75MB - 27+04MB	LT	233	
289+75ZA	RT	8	SHOULDER
294+88ZA	LT	5	SHOULDER
298+25ZB	LT	3	SHOULDER
	TOTAL	344	

CONCRETE PAVEMENT JOINT LAYOUT 6290-09-70

LOCATION	415.5110.S.02 LS	REMARKS
USH 10/MAPLE BLUFF RD/OLD HWY 18 RD INTERSECTION	1	
TOTAL	1	

REMOVING PULL BOXES - TRAFFIC SIGNALS

PULL BOX NUMBER	STATION	OFFSET	* 653.0905 EACH
S49-0590 USH 10 / STH 66 & IH 39 / USH 51 SB RAMPS			
EPB1	270+74 ZD	38' LT	1
EPB2	271+94 ZD	30' LT	1
EPB3	273+45 ZD	30' LT	1
EPB4	274+95 ZD	9' LT	1
EPB5	277+52 ZD	7' LT	1
EPB6	270+67 ZD	8' RT	1
EPB7	294+71 ZC	32' RT	1
EPB8	270+82 ZD	30' RT	1
EPB9	271+94 ZD	30' RT	1
EPB10	87+02 EB	29' RT	1
EPB11	294+50 ZC	26' LT	1
EPB12	86+99 EB	5' LT	1
EPB13	83+77 EB	5' LT	1
EPB14	87+38 WB	35' LT	1
EPB15	88+02 WB	33' LT	1
EPB16	89+39 WB	30' LT	1
EPB17	88+01 EB	10' LT	1
EPB18	270+50 ZD	6' RT	1
EPB19	270+62 ZD	38' LT	1
S49-0589 USH 10 / STH 66 & IH 39 / USH 51 NB RAMPS			
EPB1	92+79 EB	34' RT	1
EPB2	94+89 EB	35' RT	1
EPB3	94+90 EB	24' RT	1
EPB4	95+01 EB	26' LT	1
EPB5	95+02 WB	37' LT	1
EPB6	94+59 WB	40' LT	1
EPB7	95+23 WB	35' LT	1
EPB8	307+59 ZB	19' LT	1
EPB9	95+89 WB	28' LT	1
EPB10	96+00 WB	9' RT	1
EPB11	99+17 WB	6' RT	1
EPBG1	283+22 ZA	43' LT	1
EPBG2	283+29 ZA	40' LT	1
EPBG3	283+42 ZA	20' RT	1
S49-0464 USH 10 & MAPLE BLUFF RD / OLD HWY 18			
EPB1	23+09 MB	46' RT	1
EPB2	103+79 WB	54' LT	1
EPB3	100+44 WB	30' LT	1
EPB4	100+65 EB	7' LT	1
EPB5	100+70 EB	50' RT	1
EPB6	20+38 MB	37' RT	1
EPB7	21+68 MB	38' RT	1
EPB8	99+59 EB	29' RT	1
EPB9	99+22 EB	45' RT	1
EPB10	96+27 EB	30' RT	1
EPB11	99+39 WB	9' RT	1
EPB12	99+37 WB	57' LT	1
EPB13	24+22 MB	37' LT	1
EPB14	23+01 MB	33' LT	1
CATEGORY 0010 SUBTOTAL			**47**

* PAY ITEM IS ALSO SUMMARIZED IN "EXISTING CITY STREET LIGHTING EQUIPMENT REMOVAL"

REMOVING CONCRETE BASES - TRAFFIC SIGNALS

BASE NUMBER	STATION	OFFSET	* 204.0195 EACH
S49-0590 USH 10 / STH 66 & IH 39 / USH 51 SB RAMPS			
ECB-1	270+70 ZD	52' LT	1
ESB1	270+61 ZD	50' LT	1
ESB2	270+62 ZD	12' RT	1
ESB3	87+78 EB	29' RT	1
EGB1	294+64 ZC	28' RT	1
ESB4	87+08 EB	28' RT	1
ESB5	87+03 WB	19' RT	1
ESB6	87+04 WB	34' LT	1
ESB7	87+47 WB	34' LT	1
ESB8	87+77 WB	33' LT	1
ESB9	87+79 WB	23' RT	1
ESB10	88+10 EB	9' LT	1
ESB11	88+42 EB	12' LT	1
ELB1	270+84 ZD	35' LT	1
ELB5	294+60 ZC	38' LT	1
S49-0589 USH 10 / STH 66 & IH 39 / USH 51 NB RAMPS			
ELB1	308+58 ZB	12' RT	1
EGB1	283+19 ZA	42' LT	1
EGB2	283+31 ZA	42' LT	1
EGB3	283+35 ZA	27' RT	1
S49-0464 USH 10 & MAPLE BLUFF RD / OLD HWY 18			
ECB1	23+18 MB	56' RT	1
ESB1	100+32 WB	28' LT	1
ESB2	100+55 EB	11' LT	1
ESB3	100+33 EB	44' RT	1
ESB4	99+69 EB	27' RT	1
ESB5	99+46 EB	17' LT	1
ESB6	22+93 MB	33' LT	1
CATEGORY 0010 SUBTOTAL			**26**

* PAY ITEM IS ALSO SUMMARIZED IN "EXISTING CITY STREET LIGHTING EQUIPMENT REMOVAL"

REMOVING CONCRETE BASES - CITY STREET LIGHTING

BASE NUMBER	STATION	OFFSET	*204.0195 EACH
EXSL9	86+40 EB	8' LT	1
EXSL10	87+86 EB	11' LT	1
EXSL11	89+05 EB	17' LT	1
EXSL12	93+55 EB	22' LT	1
EXSL13	94+85 EB	23' LT	1
EXSL14	96+12 EB	19' LT	1
EXSL15	97+69 EB	18' LT	1
EXSL16	99+23 EB	18' LT	1
EXSL17	100+74 EB	9' LT	1
EXLC-K	100+76 EB	65' RT	1
EXSL18	101+69 EB	9' LT	1
EXSL19	102+81 WB	41' LT	1
EXSL25	107+25 WB	33' LT	1
EXSL27	108+86 EB	48' LT	1
EXSL29	110+35 EB	49' LT	1
EXSL31	111+91 EB	49' LT	1
CATEGORY 0010 SUBTOTAL			**16**

* PAY ITEM IS ALSO SUMMARIZED IN "EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVAL

REMOVING PULL BOXES - CITY STREET LIGHTING

PULL BOX NUMBER	STATION	OFFSET	*653.0905 EACH
EXLPBJ103	87+07 EB	9' LT	1
EXLPBJ104	87+68 EB	10' LT	1
EXLPPK100A	101+76 EB	9' LT	1
EXLPBK101	101+75 WB	42' LT	1
EXLPBK102	100+58 EB	7' LT	1
EXLPBK103	99+50 WB	11' RT	1
EXLPBK104	95+82 WB	10' RT	1
EXLPBK105	95+22 WB	11' RT	1
CATEGORY 0010 SUBTOTAL			**8**

* PAY ITEM IS ALSO SUMMARIZED IN "EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVAL"

CONDUIT

LOCATION (FROM) ITEM NO.		LOCATION (TO) ITEM NO.	652.0225 RIDGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 RIDGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0615 SPECIAL 3-INCH LF
S49-0590 (USH 51 SB RAMP & USH 10 / STH 66)					
CB2	to	PB1	---	42	---
PB1	to	LB1	8	---	---
PB1	to	PB2	120	---	---
PB2	to	LB2	26	---	---
PB2	to	PB3	152	---	---
PB3	to	LB3	8	---	---
PB3	to	LB4	156	---	---
PB1	to	PB4	---	96	---
PB4	to	SB1	10	---	---
PB4	to	PB5	---	66	---
PB5	to	RAMP GATE G49-08	6	---	---
PB5	to	PB6	18	---	---
PB5	to	PB7	126	---	---
PB5	to	PB8	---	92	---
PB8	to	SB2	18	---	---
PB8	to	PB9	---	42	---
PB9	to	LB6	96	---	---
LB6	to	LB7	118	---	---
PB9	to	PB10	26	---	---
PB10	to	LB5	10	---	---
PB10	to	PB11	258	---	---
PB8	to	PB12	---	92	---
PB12	to	SB3	18	---	---
PB12	to	SB4	18	---	---
PB12	to	PB13	---	136	---
PB13	to	SB5	18	---	---
PB13	to	SB6	36	---	---
PB13	to	PB14	---	178	---
PB14	to	SB7	24	---	---
PB14	to	PB15	138	---	---
PB15	to	BRIDGE PARAPIT	10	---	---
PB14	to	PB16	---	112	---
PB16	to	SB8	22	---	---
PB16	to	SB9	12	---	---
PB16	to	SB10	22	---	---
PB16	to	PB17	---	136	---
PB17	to	SB11	8	---	---
PB17	to	CB2	---	42	---
CATEGORY 0020 SUBTOTALS			**1482**	**1034**	**0**

CONDUIT

LOCATION (FROM) ITEM NO.		LOCATION (TO) ITEM NO.	652.0225 RIDGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 RIDGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0615 SPECIAL 3-INCH LF
S49-0589 (USH 51 NB RAMP & USH 10 / STH 66)					
CB3	to	PB1	---	136	---
PB1	to	SB1	18	---	---
PB1	to	PB2	---	96	---
PB2	to	SB2	14	---	---
PB2	to	PB3	160	---	---
PB3	to	BRIDGE PARAPIT	6	---	---
PB2	to	PB4	---	104	---
PB4	to	SB3	22	---	---
PB4	to	PB5	---	18	---
PB5	to	SB4	6	---	---
PB5	to	SB5	12	---	---
PB4	to	PB6	---	132	---
PB6	to	SB6	18	---	---
PB6	to	PB7	---	116	---
PB7	to	SB7	18	---	---
PB7	to	PB8	---	76	---
PB8	to	RAMP GATE G49-09	24	---	---
PB8	to	PB9	68	---	---
PB9	to	LB1	14	---	---
PB9	to	LB2	14	---	---
PB9	to	PB10	50	---	---
PB10	to	LB3	82	---	---
LB3	to	PB11	132	---	---
PB11	to	LB4	10	---	---
PB8	to	PB12	---	128	---
PB12	to	SB8	12	---	---
PB12	to	PB13	66	---	---
PB13	to	RAMP GATE G49-10	6	---	---
PB13	to	LB5	18	---	---
PB12	to	PB14	144	---	---
PB14	to	PB15	134	---	---
PB12	to	PB16	---	118	---
PB16	to	SB9	14	---	---
PB16	to	SB10	38	---	---
PB16	to	SB11	14	---	---
PB16	to	SB12	10	---	---
PB16	to	PB17	---	130	---
PB17	to	SB13	14	---	---
PB17	to	SB14	14	---	---
PB17	to	PB18	---	94	---
PB18	to	SB15	8	---	---
PB18	to	LB6	36	---	---
LB6	to	PB19	96	---	---
PB19	to	LB7	8	---	---
PB19	to	PB20	110	---	---
PB20	to	LB8	10	---	---
PB18	to	CB3	---	54	---
CATEGORY 0010 SUBTOTALS			**1420**	**1202**	**0**

*PAY ITEM ALSO SUMMARIZED IN "CONDUIT AND ELECTRICAL WIRE - CITY STREET LIGHTING"

CONDUIT

LOCATION (FROM) ITEM NO.		LOCATION (TO) ITEM NO.	652.0225 RIDGID NONMETALLIC SCHEDULE 40 2-INCH LF	*652.0235 RIDGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0615 SPECIAL 3-INCH LF
S49-0464 (USH 10 & MAPLE BLUFF RD / OLD HWY 18)					
CB4	to	PB1	---	42	---
PB1	to	PB2	244	---	---
PB1	to	PB3	---	---	120
PB3	to	SB1	42	---	---
PB3	to	PB4	---	40	---
PB4	to	SB2	12	---	---
PB4	to	SB3	6	---	---
PB4	to	PB5	---	---	96
PB5	to	SB4	8	---	---
PB5	to	PB6	---	48	---
PB6	to	SB5	8	---	---
PB6	to	PB7	116	---	---
PB6	to	PB8	---	68	---
PB8	to	SB6	20	---	---
PB8	to	SB8	15	---	---
PB8	to	SB7	30	---	---
PB8	to	PB9	---	---	230
PB9	to	LB1	40	---	---
PB9	to	PB10	244	---	---
PB9	to	PB11	---	---	42
PB11	to	SB9	10	---	---
PB9	to	PB12	---	---	96
PB12	to	SB10	46	---	---
PB12	to	PB13	---	40	---
PB13	to	SB11	8	---	---
PB13	to	SB12	12	---	---
PB13	to	PB14	---	---	160
PB14	to	SB13	16	---	---
PB14	to	PB15	100	---	---
PB14	to	PB16	---	64	---
PB16	to	SB14	20	---	---
PB16	to	SB15	18	---	---
PB16	to	PB17	---	---	130
PB17	to	SB16	16	---	---
PB17	to	PB18	---	84	---
PB18	to	LB2	26	---	---
PB18	to	CB4	---	48	---
CATEGORY 0010 SUBTOTALS			**1057**	**434**	**874**

*PAY ITEM ALSO SUMMARIZED IN "CONDUIT AND ELECTRICAL WIRE - CITY STREET LIGHTING"

3

LOOP DETECTOR INSTALLATION

LOOP NUMBER	*STATION	*OFFSET	SIZE (FT - FT)	NUMBER OF TURNS	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 **LOOP DETECTOR LEAD IN CABLE LF	655.0800 LOOP DETECTOR WIRE LF
S49-0590 (USH 51 SB RAMP & USH 10 / STH 66)							
21	90+79 WB (ON BRIDGE DECK)	6' LT	6X6	4	58	426	232
22	90+79 WB (ON BRIDGE DECK)	18' LT	6X6	4	34	426	136
51	88+07 WB	6' RT	6X20	3	84	86	252
52	87+79 WB	7' RT	6X20	3	96	86	288
61	83+91 EB	6' RT	6X6	4	84	476	336
62	83+91 EB	18' RT	6X6	4	64	476	256
81	271+94 ZD	12' RT	6X6	4	52	226	208
82	270+89 ZD	16' RT	6X20	3	76	120	228
83	270+82 ZD	26' RT	6X20	3	72	120	216
OLA-1	271+96 ZD	7' LT	6X6	4	64	138	256
OLA-2	271+96 ZD	20' LT	6X6	4	40	138	160
OLA-3	270+87 ZD	6' LT	6X20	3	88	66	264
OLA-4	270+88 ZD	18' LT	6X20	3	96	18	288
OLA-5	270+59 ZD	9' LT	6X20	3	76	66	228
OLA-6	270+61 ZD	22' LT	6X20	3	84	18	252
CATEGORY 0020 TOTALS					1068	2886	3600

REMOVE, SALVAGE & STORE-CITY STREET LIGHTING

STATION	OFFSET	SPV.0060.06 REMOVE SALVAGE AND STORE STREET LIGHTING POLES EACH	SPV.0060.07 REMOVE SALVAGE AND STORE STREET LIGHTING ARMS EACH	SPV.0060.08 REMOVE SALVAGE AND STORE STREET LIGHTING LUMINAIRES EACH	REMARKS
86+40 EB	8' LT	1	2	2	34' ALUMINUM / TWIN 10' / 2-LED B
87+86 EB	11' LT	1	2	2	34' ALUMINUM / TWIN 10' / 2-LED B
89+05 EB	17' LT	1	2	2	34' ALUMINUM / TWIN 10' / 2-LED B
93+55 EB	22' LT	1	2	2	34' ALUMINUM / TWIN 10' / 2-LED B
94+85 EB	23' LT	1	2	2	34' ALUMINUM / TWIN 10' / 2-LED B
96+12 EB	19' LT	1	2	2	34' ALUMINUM / TWIN 10' / 2-LED B
97+69 EB	18' LT	1	2	2	34' ALUMINUM / TWIN 10' / 2-LED B
99+23 EB	18' LT	1	2	2	34' ALUMINUM / TWIN 10' / 2-LED B
100+74 EB	9' LT	1	2	2	34' ALUMINUM / TWIN 10' / 2-LED B
100+69 EB	9' LT	1	2	2	34' ALUMINUM / TWIN 10' / 2-LED B
102+81 WB	41' LT	1	1	1	34' ALUMINUM / 10' Arm / 1-LED B
107+25 WB	33' LT	1	1	1	34' ALUMINUM / 10' Arm / 1-LED B
108+86 EB	48' LT	1	1	1	34' ALUMINUM / 10' Arm / 1-LED B
110+35 EB	49' LT	1	1	1	34' ALUMINUM / 10' Arm / 1-LED B
111+91 EB	49' LT	1	1	1	34' ALUMINUM / 10' Arm / 1-LED B
CATEGORY 0010 TOTALS		15	25	25	

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LOOP DETECTOR INSTALLATION

LOOP NUMBER	*STATION	*OFFSET	SIZE (FT - FT)	NUMBER OF TURNS	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 **LOOP DETECTOR LEAD IN CABLE LF	655.0800 LOOP DETECTOR WIRE LF
S49-0589 (USH 51 NB RAMP & USH 10 / STH 66)							
11	94+34 EB	6' LT	6X20	3	68	148	204
12	94+62 EB	7' LT	6X20	3	72	148	216
21	98+80 WB	6' LT	6X6	4	92	478	368
22	98+80 WB	18' LT	6X6	4	72	478	288
41	308+02 ZB	9' LT	6X6	4	56	370	224
42	309+07 ZB	5' RT	6X20	3	76	272	228
43	309+30 ZB	22' RT	6X20	3	76	272	228
61	91+58 EB	6' RT	6X6	4	64	382	256
62	91+58 EB	18' RT	6X6	4	44	382	176
81	258+38 ZZ	7' LT	6X6	4	48	152	192
82	286+57 ZZ	7' LT	6X20	3	84	20	252
83	286+83 ZZ	5' RT	6X20	3	88	20	264
S49-0464 (USH 10 & MAPLE BLUFF RD / OLD HWY 18)							
11	99+11 EB	15' LT	6X20	3	68	244	204
12	99+39 EB	15' LT	6X20	3	68	244	204
21	103+38 WB	6' LT	6X6	4	116	262	464
22	103+38 WB	18' LT	6X6	4	92	262	368
23	103+38 WB	30' LT	6X6	4	72	262	288
31	21+60 MB	6' RT	6X20	3	100	206	300
32	21+88 MB	6' RT	6X20	3	100	206	300
41	24+22 MB	7' LT	6X6	4	120	258	480
42	24+22 MB	22' LT	6X6	4	92	258	368
43	24+26 MB	33' LT	6X6	4	52	258	208
44	23+18 MB	18' LT	6X20	3	80	128	240
45	22+90 MB	18' LT	6X20	3	80	128	240
51	100+90 WB	15' RT	6X20	3	64	78	192
52	100+62 WB	15' RT	6X20	3	64	78	192
61	96+69 EB	6' RT	6X6	4	72	560	288
62	96+69 EB	18' RT	6X6	4	56	560	224
71	23+18 MB	6' LT	6X20	3	100	128	300
72	22+90 MB	6' LT	6X20	3	100	128	300
81	20+42 MB	6' RT	6X6	4	80	288	320
82	20+42 MB	18' RT	6X6	4	60	288	240
83	21+60 MB	18' RT	6X20	3	72	206	216
84	21+88 MB	18' RT	6X20	3	72	206	216
OLA-1	23+16 MB	49' LT	6X20	3	76	160	228
OLA-2	22+90 MB	58' LT	6X20	3	80	160	204
OLB-1	21+60 MB	48' RT	6X20	3	84	170	252
OLB-2	21+88 MB	60' RT	6X20	3	80	170	240
CATEGORY 0010 SUBTOTALS					2940	9018	9972

* STATION / OFFSET LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
** PAY ITEM IS ALSO SUMMARIZED IN " CABLE TRAFFIC SIGNAL"

CONCRETE BASES

SIGNAL BASE NUMBER	STATION	OFFSET	654.0101 TYPE 1 EACH	654.0102 TYPE 2 EACH	654.0105 TYPE 5 EACH	654.0110 TYPE 10 EACH
S49-0590 (USH 51 SB RAMP & USH 10 / STH 66)						
SB1	87+78 EB	42' RT	---	1	---	---
SB2	86+89 EB	32' RT	1	---	---	---
SB3	86+89 EB	4' LT	---	1	---	---
SB4	86+94 WB	13' RT	1	---	---	---
SB5	86+96 WB	36' LT	---	---	---	1
SB6	87+47 WB	35' LT	1	---	---	---
SB7	87+78 WB	33' LT	---	1	---	---
SB8	88+00 WB	17' RT	1	---	---	---
SB9	88+16 EB	10' LT	1	---	---	---
SB10	88+42 EB	11' LT	1	---	---	1
SB11	270+61 ZD	50' RT	1	---	---	---
LB1	270+84 ZD	36' LT	---	---	1	---
LB5	86+62 EB	61' RT	---	1	---	---
CATEGORY 0020 TOTALS			**7**	**4**	**1**	**2**

ELECTRIC SERVICE METER BREAKER PEDESTAL

LOCATION	CABINET BASE NUMBER	656.0200.01 LS	656.0200.02 LS	656.0200.03 LS	REMARKS
S49-0590 (USH 51 SB RAMP & USH 10 / STH 66)	CB2	1	---	---	CATEGORY 0020
S49-0589 (USH 51 NB RAMP & USH 10 / STH 66)	CB3	---	1	---	CATEGORY 0010
S49-0464 (USH 10 & MAPLE BLUFF RD / OLD HWY 18	CB4	---	---	1	CATEGORY 0010
	TOTAL	1	1	1	

CONCRETE CONTROL CABINET BASES

BASE NUMBER	*STATION	*OFFSET	LOCATION	654.0217 TYPE 9 SPECIAL EACH	REMARKS
CB2	88+45EB	54.0' RT	S49-0590 (IH 39 SB RAMP & USH 10 / STH 66)	1	CATEGORY 0020
CB3	95+31EB	45.5' RT	S49-0589 (IH 39 NB RAMP & USH 10 / STH 66)	1	CATEGORY 0010
CB4	100+81WB	68.9' LT	S49-0464 (USH 10 & MAPLE BLUFF RD / OLD HWY 18)	1	CATEGORY 0010
*CENTER OF CABINET			**TOTAL**	**3**	

SALVAGE TRAFFIC SIGNALS

LOCATION	SPV.0105.01 LS	SPV.0105.02 LS	REMARKS
S49-0590 (IH 39 SB RAMP & USH 10 / STH 66)	1	---	CATEGORY 0020
S49-0464 (USH 10 & MAPLE BLUFF RD / OLD HWY 18)	---	1	CATEGORY 0010
TOTALS	**1**	**1**	

CONCRETE BASES

SIGNAL BASE NUMBER	STATION	OFFSET	654.0101 TYPE 1 EACH	654.0102 TYPE 2 EACH	654.0105 TYPE 5 EACH	654.0110 TYPE 10 EACH	654.0120 TYPE 10 SPECIAL EACH	654.0113 TYPE 13 EACH
S49-0589 (USH 51 NB RAMP & USH 10 / STH 66)								
SB1	94+73 EB	31' RT	---	1	---	---	---	---
SB2	94+52 EB	31' RT	1	---	---	---	---	---
SB3	94+58 EB	17' LT	1	---	---	---	---	---
SB4	94+29 WB	8' RT	1	---	---	---	---	---
SB5	94+09 WB	8' RT	---	---	---	1	---	---
SB6	309+20 ZB	35' RT	1	---	---	---	---	---
SB7	309+31 ZB	5' RT	1	---	---	---	---	---
SB8	283+08 ZA	1' RT	---	1	---	---	---	---
SB9	95+84 WB	5' RT	1	---	---	---	---	---
SB10	95+56 EB	7' LT	---	1	---	---	---	---
SB11	95+81 EB	7' LT	1	---	---	---	---	---
SB12	95+98 EB	7' LT	---	---	---	1	---	---
SB13	96+09 EB	45' RT	1	---	---	---	---	---
SB14	286+60 ZZ	15' RT	1	---	---	---	---	---
SB15	286+70 ZZ	20' LT	1	---	---	---	---	---
LB1	308+45 ZB	23' LT	---	---	1	---	---	---
LB2	283+87 ZA	32' LT	---	---	1	---	---	---
LB3	285+20 ZA	33' LT	---	---	1	---	---	---
LB4	286+60 ZA	30' LT	---	---	1	---	---	---
LB5	283+59 ZA	56' RT	---	---	1	---	---	---
LB6	286+25 ZZ	21' LT	---	---	1	---	---	---
LB7	285+42 ZZ	21'LT	---	---	1	---	---	---
LB8	284+15 ZZ	20' LT	---	---	1	---	---	---
S49-0464 (USH 10 & MAPLE BLUFF RD / OLD HWY 18)								
SB1	100+43 WB	4' RT	---	1	---	---	---	---
SB2	100+74 EB	4' LT	1	---	---	---	---	---
SB3	100+91 EB	4' LT	1	---	---	---	---	---
SB4	100+80 EB	38' RT	1	---	---	---	---	---
SB5	21+68 MB	65' RT	1	---	---	---	---	---
SB6	100+40 EB	36' RT	---	---	---	1	---	---
SB7	100+43 EB	26' RT	1	---	---	---	---	---
SB8	100+33 EB	39' RT	---	---	---	---	1	---
SB9	99+69 EB	28' RT	1	---	---	---	---	---
SB10	99+63 EB	4' LT	---	1	---	---	---	---
SB11	99+08 WB	4' RT	1	---	---	---	---	---
SB12	99+29 WB	4' RT	1	---	---	---	---	---
SB13	99+29 WB	58' LT	1	---	---	---	---	---
SB14	99+65 WB	46' LT	---	---	---	---	---	1
SB15	99+70 WB	50' LT	---	---	---	---	1	---
SB16	100+40 WB	49' LT	1	---	---	---	---	---
LB1	21+56 MB	46' LT	---	1	---	---	---	---
LB2	23+18 MB	47' RT	---	1	---	---	---	---
CATEGORY 0010 TOTALS			**20**	**7**	**8**	**3**	**2**	**1**

CABLE TRAFFIC SIGNALS

LOCATION (FROM) ITEM NO.		(TO) ITEM NO.	655.0230 5-14 AWG LF	655.0250 9-14 AWG LF	655.0260 12-14 AWG LF	655.0700 *LOOP DETECTOR LEAD-IN CABLE LF
S49-0590 USH 10 / STH 66 & IH 39 / USH 51 SB RAMPS						
CB2	to	SB1	112	---	---	---
SB1	to	HEAD 8A	19	---	---	---
CB2	to	SB2	---	---	232	---
SB2	to	HEAD 6A	22	---	---	---
SB2	to	HEAD 5C	22	---	---	---
SB2	to	P HEAD 8-1	14	---	---	---
SB2	to	PED BUTTON	---	---	---	6
CB2	to	SB3	---	296	---	---
SB3	to	HEAD 6D	19	---	---	---
SB3	to	P HEAD 8-2	14	---	---	---
SB3	to	PED BUTTON	---	---	---	6
CB2	to	SB4	---	298	---	---
SB4	to	HEAD 5B	22	---	---	---
SB4	to	P HEAD 6-1	14	---	---	---
SB4	to	PED BUTTON	---	---	---	6
CB2	to	SB5	---	378	---	---
SB5	to	HEAD 8C	19	---	---	---
SB5	to	HEAD 2B	44	---	---	---
SB5	to	HEAD 2C	56	---	---	---
CB2	to	SB6	392	---	---	---
SB6	to	HEAD 8B	20	---	---	---
CB2	to	SB7	214	---	---	---
SB7	to	HEAD 2A	19	---	---	---
CB2	to	SB8	---	138	---	---
SB8	to	HEAD 5A	22	---	---	---
SB8	to	P HEAD 6-2	14	---	---	---
SB8	to	PED BUTTON	---	---	---	6
CB2	to	SB9	132	---	---	---
SB9	to	HEAD OLA-2	20	---	---	---
CB2	to	SB10	---	142	---	---
SB10	to	OLA-3	19	---	---	---
SB10	to	HEAD 6B	54	---	---	---
SB10	to	HEAD 6C	44	---	---	---
CB2	to	SB11	40	---	---	---
SB11	to	HEAD OLA-1	20	---	---	---
CATEGORY 0020 TOTALS			**1387**	**1252**	**232**	**24**

* PAY ITEM IS ALSO SUMMARIZED IN "LOOP DETECTOR INSTALLATION"

CABLE TRAFFIC SIGNALS

LOCATION (FROM) ITEM NO.		(TO) ITEM NO.	655.0230 5-14 AWG LF	655.0250 9-14 AWG LF	655.0260 12-14 AWG LF	655.0270 15-14 AWG LF	655.0700 *LOOP DETECTOR LEAD-IN CABLE LF
S49-0589 USH 10 / STH 66 & IH 39 / USH 51 NB RAMPS							
CB3	to	SB1	84	---	---	---	---
SB1	to	P HEAD 4-2	14	---	---	---	---
SB1	to	PED BUTTON	---	---	---	---	6
CB3	to	SB2	152	---	---	---	---
SB2	to	HEAD 6A	20	---	---	---	---
CB3	to	SB3	---	228	---	---	---
SB3	to	HEAD 1A	20	---	---	---	---
SB3	to	P HEAD 4-1	14	---	---	---	---
SB3	to	PED BUTTON	---	---	---	---	6
CB3	to	SB4	244	---	---	---	---
SB4	to	HEAD 4C	20	---	---	---	---
CB3	to	SB5	---	246	---	---	---
SB5	to	HEAD 4B	19	---	---	---	---
SB5	to	HEAD 2B	52	---	---	---	---
SB5	to	HEAD 2C	42	---	---	---	---
CB3	to	SB6	320	---	---	---	---
SB6	to	HEAD 4A	20	---	---	---	---
CB3	to	SB7	380	---	---	---	---
SB7	to	HEAD 4D	20	---	---	---	---
CB3	to	SB8	---	278	---	---	---
SB8	to	HEAD 2A	19	---	---	---	---
SB8	to	HEAD 1C	22	---	---	---	---
CB3	to	SB9	204	---	---	---	---
SB9	to	HEAD 2D	20	---	---	---	---
CB3	to	SB10	230	---	---	---	---
SB10	to	HEAD 1B	22	---	---	---	---
CB3	to	SB11	206	---	---	---	---
SB11	to	HEAD 8C	20	---	---	---	---
CB3	to	SB12	---	198	---	---	---
SB12	to	HEAD 8B	19	---	---	---	---
SB12	to	HEAD 6B	52	---	---	---	---
SB12	to	HEAD 6C	40	---	---	---	---
CB3	to	SB13	118	---	---	---	---
SB13	to	P HEAD 6-2	14	---	---	---	---
SB13	to	PED BUTTON	---	---	---	---	6
CB3	to	SB14	112	---	---	---	---
SB14	to	HEAD 8A	20	---	---	---	---
CB3	to	SB15	---	48	---	---	---
SB15	to	HEAD 8D	20	---	---	---	---
SB15	to	P HEAD 6-1	14	---	---	---	---
SB15	to	PED BUTTON	---	---	---	---	6
CATEGORY 0010 SUBTOTALS			**2573**	**998**	**0**	**0**	**24**

* PAY ITEM IS ALSO SUMMARIZED IN "LOOP DETECTOR INSTALLATION"

CONTINUED ON NEXT PAGE

CABLE TRAFFIC SIGNALS

LOCATION (FROM) ITEM NO.		(TO) ITEM NO.	655.0230 5-14 AWG LF	655.0250 9-14 AWG LF	655.0260 12-14 AWG LF	655.0270 15-14 AWG LF	655.0700 *LOOP DETECTOR LEAD-IN CABLE LF
S49-0464 USH 10 & MAPLE BLUFF RD / OLD HWY 18							
CB4	to	SB1	---	---	156	---	---
SB1	to	HEAD 2E	19	---	---	---	---
SB1	to	HEAD 1B	22	---	---	---	---
SB1	to	P HEAD 8-2	14	---	---	---	---
SB1	to	P HEAD 8-3	14	---	---	---	---
SB1	to	PED BUTTON	---	---	---	---	6
CB4	to	SB2	---	160	---	---	---
SB2	to	HEAD 5A	22	---	---	---	---
SB2	to	HEAD OLB-2	22	---	---	---	---
CB4	to	SB3	152	---	---	---	---
SB3	to	HEAD OLB-3	20	---	---	---	---
CB4	to	SB4	218	---	---	---	---
SB4	to	P HEAD 6-4	14	---	---	---	---
SB4	to	PED BUTTON	---	---	---	---	6
CB4	to	SB5	260	---	---	---	---
SB5	to	HEAD OLB-1	20	---	---	---	---
CB4	to	SB6	---	322	---	---	---
SB6	to	HEAD 6B	46	---	---	---	---
SB6	to	HEAD 6C	58	---	---	---	---
SB6	to	P HEAD 6-2	14	---	---	---	---
SB6	to	P HEAD 6-3	14	---	---	---	---
SB6	to	PED BUTTON	---	---	---	---	6
CB4	to	SB7	322	---	---	---	---
SB7	to	P HEAD 8-1	14	---	---	---	---
SB7	to	PED BUTTON	---	---	---	---	6
CB4	to	SB8	---	---	316	---	---
SB8	to	HEAD 8A	19	---	---	---	---
SB8	to	HEAD 7A	60	---	---	---	---
SB8	to	HEAD 7B	22	---	---	---	---
SB8	to	HEAD 4C	70	---	---	---	---
CATEGORY 0010 SUBTOTALS			**1436**	**482**	**472**	**0**	**24**

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CABLE TRAFFIC SIGNALS

LOCATION (FROM) ITEM NO.		(TO) ITEM NO.	655.0230 5-14 AWG LF	655.0250 9-14 AWG LF	655.0260 12-14 AWG LF	655.0270 15-14 AWG LF	655.0700 *LOOP DETECTOR LEAD-IN CABLE LF
CB4	to	SB9	---	---	---	506	---
SB9	to	HEAD 6A	22	---	---	---	---
SB9	to	HEAD 5C	22	---	---	---	---
SB9	to	P HEAD 6-1	14	---	---	---	---
SB9	to	PED BUTTON	---	---	---	---	6
SB9	to	HEAD 4B	22	---	---	---	---
CB4	to	SB10	---	396	---	---	---
SB10	to	HEAD 6D	19	---	---	---	---
SB10	to	HEAD 5B	22	---	---	---	---
CB4	to	SB11	322	---	---	---	---
SB11	to	HEAD OLA-3	20	---	---	---	---
CB4	to	SB12	---	326	---	---	---
SB12	to	HEAD OLA-2	22	---	---	---	---
SB12	to	HEAD 1A	22	---	---	---	---
CB4	to	SB13	236	---	---	---	---
SB13	to	HEAD OLA-1	20	---	---	---	---
CB4	to	SB14	194	---	---	---	---
SB14	to	HEAD 2B	42	---	---	---	---
SB14	to	HEAD 2C	54	---	---	---	---
SB14	to	HEAD 2D	68		---	---	---
CB4	to	SB15	---	---	190	---	---
SB15	to	HEAD 4A	19	---	---	---	---
SB15	to	HEAD 8C	68	---	---	---	---
SB15	to	HEAD 3A	58	---	---	---	---
SB15	to	HEAD 3B	22	---	---	---	---
CB4	to	SB16	---	---	---	106	---
SB16	to	HEAD 8B	22	---	---	---	---
SB16	to	HEAD 2A	22	---	---	---	---
SB16	to	HEAD 1C	22	---	---	---	---
SB16	to	P HEAD 8-4	14	---	---	---	---
SB16	to	PED BUTTON	---	---	---	---	6
CATEGORY 0010 SUBTOTALS			**1368**	**722**	**190**	**612**	**12**

* PAY ITEM IS ALSO SUMMARIZED IN "LOOP DETECTOR INSTALLATION"

3

CONDUIT AND ELECTRICAL WIRE - CITY STREET LIGHTING

LOCATION (FROM) ITEM NO.		LOCATION (TO) ITEM NO.	*652.0225 CONDUIT RIDGID NONMETALLIC SCHEDULE 40 2-INCH LF	*652.0235 CONDUIT RIDGID NONMETALLIC SCHEDULE 40 3-INCH LF	*652.0605 CONDUIT SPECIAL 2-INCH LF	*652.0615 CONDUIT SPECIAL 3-INCH LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG LF
J-SL106	to	LPBJ7	182	---	---	---	766	575
LPBJ7	to	J-SL108	192	---	---	---	806	605
J-SL108	to	LPBJ8	4	---	---	---	54	41
LPBJ8	to	STRUCTURE (NW QUAD)	10	---	---	---	104	78
STRUCTURE (NW QUAD)	to	J-SL110	---	---	---	---	662	497
J-SL110	to	STRUCTURE (NE QUAD)	---	---	---	---	305	458
STRUCTURE (NE QUAD)	to	LPBJ9	10	---	---	---	52	78
LPBJ9	to	J-SL112	10	---	---	---	39	59
LPBJ8	to	LPBJ10	---	112	---	---	460	345
LPBJ10	to	J-SL109	72	---	---	---	326	245
J-SL109	to	LPBJ11	14	---	---	---	94	71
LPBJ11	to	STRUCTURE (SW QUAD)	10	---	---	---	136	102
STRUCTURE (SW QUAD)	to	J-SL111	---	---	---	---	630	473
J-SL111	to	STRUCTURE (SE QUAD)	---	---	---	---	327	491
STRUCTURE (SE QUAD)	to	LPBJ12	10	---	---	---	68	102
LPBJ12	to	J-SL113	6	---	---	---	31	47
K-SL114	to	K-SL116	118	---	---	---	---	605
K-SL116	to	LPBK1	4	---	---	---	---	95
LPBK1	to	LPBK2	---	122	---	---	---	966
LPBK2	to	K-SL115	---	68	---	---	---	775
LPBK2	to	LPBK3	---	60	---	---	---	532
LPBK3	to	LPBK4	---	---	---	172	---	1316
LPBK4	to	LC-K	---	12	---	---	---	350
LPBK4	to	EXLPBK100	---	110	---	---	---	882
EXLPBK100	to	K-SL117	4	---	---	---	---	189
EXLPBK100	to	K-EXSL20	---	---	---	---	---	893
L-SL118	to	L-SL119	104	---	---	---	---	535
L-SL119	to	L-EXSL21	92	---	70	---	---	1155
L-EXSL21	to	L-EXSL23	124	---	---	---	---	889
L-EXSL23	to	L-SL120	78	---	80	---	---	1127
L-SL120	to	L-SL121	162	---	---	---	---	1155
L-SL121	to	L-SL122	148	---	---	---	---	1057
L-SL122	to	L-SL123	158	---	---	---	---	1127
L-SL123	to	L-EXSL32	138	---	60	---	---	1407
CATEGORY 0010 SUBTOTALS			**1650**	**484**	**210**	**172**	**4860**	**19322**

* PAY ITEM IS ALSO SUMMARIZED IN "TRAFFIC SIGNAL CONDUIT"

LIGHTING CONTROL CABINET

LOCATION	CABINET BASE NUMBER	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	SPV.0060.05 LIGHTING CONTROL CABINET SPECIAL EACH	656.0200.05 ELECTRIC SERVICE METER BREAKER PEDESTAL (LOCATION) LS	SPV.0060.13 LIGHTING CONTROL MODIFICATIONS CABINET LC-L EACH
100+97 EB, 60' RT	LC-K	1	1	1	---
125+25 EB LT	LC-L	---	---	---	1
	TOTALS	1	1	1	1

3

INSTALLING CITY STREET LIGHT ASSEMBLIES

LIGHTING BASE NUMBER	STATION	OFFSET	654.0107 CONCRETE BASES TYPE 7 EACH	SPV.0060.10 INSTALL 34-FT LIGHTING UNIT SINGLE 10-FT ARM W/ TRANSFORMER BASE EACH	*657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0327 POLES TYPE 6 ALUMINUM EACH	*657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	SPV.0060.11 INSTALL SALVAGED LUMINAIRE EACH	**655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	REMARKS
J-SL108	89+30WB	32.00' LT	1	1	---	---	---	1	190	SALVAGED LED B
J-SL109	90+01EB	34.00' RT	1	1	---	---	---	1	190	SALVAGED LED B
J-SL110	90+93WB	30.43 LT	---	---	1	1	1	1	137	ATTACH TO STRUCTURE / SALVAGED LED B
J-SL111	91+83EB	30.43' RT	---	---	1	1	1	1	137	ATTACH TO STRUCTURE / SALVAGED LED B
J-SL112	92+48 WB	33.00X' LT	1	1	---	---	---	1	190	SALVAGED LED B
J-SL113	93+18EB	32.00' RT	1	1	---	---	---	1	190	SALVAGED LED B
K-SL114	97+29WB	49.50' LT	1	1	---	---	---	1	190	SALVAGED LED B
K-SL115	97+83EB	41.00' RT	1	1	---	---	---	1	190	SALVAGED LED B
K-SL116	98+46WB	42.00' LT	1	1	---	---	---	1	190	SALVAGED LED B
K-SL117	101+71EB	28.50' RT	1	1	---	---	---	1	190	SALVAGED LED B
L-SL118	101+74WB	55.00'LT	1	1	---	---	---	1	190	SALVAGED LED B
L-SL119	102+80WB	55.00' LT	1	1	---	---	---	1	190	SALVAGED LED B
L-SL120	107+25WB	42.00' LT	1	1	---	---	---	1	190	SALVAGED LED B
L-SL121	108+86EB	62.50' LT	1	1	---	---	---	1	190	SALVAGED LED B
L-SL122	110+35EB	62.50' LT	1	1	---	---	---	1	190	SALVAGED LED B
L-SL123	111+91EB	49.63' LT	1	1	---	---	---	1	190	SALVAGED LED B
CATEGORY 0010 SUBTOTALS			**14**	**14**	**2**	**2**	**2**	**16**	**2934**	

* PAY ITEMS ALSO SUMMARIZED IN "TRAFFIC SIGNAL BASES, POLES, ARMS, AND LUMINAIRES"

** PAY ITEM IS ALSO SUMMARIZED IN "TRAFFIC SIGNAL - ELECTRICAL WIRE LIGHTING"

PULL BOXES NON-CONDUCTIVE - CITY STREET LIGHTING

PULL BOX NUMBER	STATION	OFFSET	* 653.0164 24x42 INCH EACH
LPBJ7	87+44 WB	45' LT	1
LPBJ8	89+35 WB	35' LT	1
LPBJ9	92+39 WB	31' LT	1
LPBJ10	89+28 EB	37' RT	1
LPBJ11	90+15 EB	32' RT	1
LPBJ12	93+15 EB	35' RT	1
LPBK1	98+50 WB	41' LT	1
LPBK2	98+50 EB	53' RT	1
LPBK3	99+54 EB	66' RT	1
LPBK4	100+82 EB	56' RT	1
		CATEGORY 0010 SUBTOTAL	**10**

* PAY ITEM IS ALSO SUMMARIZED IN "TRAFFIC SIGNAL PULL BOX"

3

ELECTRICAL WIRE LIGHTING - TRAFFIC SIGNALS

LOCATION (FROM) ITEM NO.		(TO) ITEM NO.	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED LF	*655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF
S49-0590 USH 10 / STH 66 & IH 39 / USH 51 SB RAMPS				
CB2	to	LB1	50	125
CB2	to	LB2	200	125
CB2	to	LB3	350	125
CB2	to	LB4	500	125
CB2	to	LB5	320	125
CB2	to	LB6	365	125
CB2	to	LB7	470	125
CB2	to	SB1	110	135
CB2	to	SB3	295	125
CB2	to	SB5	380	140
CB2	to	SB7	215	140
CB2	to	SB10	145	140
CAT 0020 TOTALS			3400	1555
S49-0589 USH 10 / STH 66 & IH 39 / USH 51 NB RAMPS				
CB3	to	SB1	85	125
CB3	to	SB5	250	140
CB3	to	LB1	510	125
CB3	to	LB2	510	125
CB3	to	LB3	640	270
CB3	to	LB4	800	260
CB3	to	SB8	280	130
CB3	to	SB10	235	125
CB3	to	SB12	200	140
CB3	to	LB5	315	125
CB3	to	LB6	70	125
CB3	to	LB7	205	125
CB3	to	LB8	325	125
S49-0464 USH 10 & MAPLE BLUFF RD / OLD HWY 18				
CB4	to	LB1	460	125
CB4	to	LB2	65	125
CB4	to	SB1	160	125
CB4	to	SB6	305	140
CB4	to	SB10	400	125
CB4	to	SB14	200	140
CAT 0010 SUBTOTALS			6015	2720

*PAY ITEM ALSO SUMMARIZED IN "INSTALLING CITY STREET LIGHT ASSEMBLIES"

PULL BOXES NON-CONDUCTIVE

PULL BOX NUMBER	STATION	OFFSET	*653.0164 24x42 INCH EACH
S49-0589 (USH 51 NB RAMP & USH 10 / STH 66)			
PB1	94+86 EB	45' RT	1
PB2	94+39 EB	34' RT	1
PB3	92+78 EB	34' RT	1
PB4	94+37 EB	19' LT	1
PB5	94+22 WB	10' RT	1
PB6	94+32 WB	46' LT	1
PB7	94+87 WB	45' LT	1
PB8	95+25 WB	46' LT	1
PB9	283+86 ZA	47' LT	1
PB10	284+32 ZA	41' LT	1
PB11	286+51 ZA	30' LT	1
PB12	95+89 WB	46' LT	1
PB13	283+52 ZA	67' RT	1
PB14	97+39 WB	44' LT	1
PB15	98+72 WB	44' LT	1
PB16	95+94 EB	15' LT	1
PB17	286+67 ZZ	22' RT	1
PB18	286+63 ZZ	26' LT	1
PB19	285+33 ZZ	25' LT	1
PB20	284+26 ZZ	23' LT	1
S49-0464 (USH 10 & MAPLE BLUFF RD / OLD HWY 18)			
PB1	100+85 WB	55' LT	1
PB2	103+29 WB	54' LT	1
PB3	100+85 WB	4' RT	1
PB4	100+86 EB	4' LT	1
PB5	100+87 EB	43' RT	1
PB6	21+61 MB	68' RT	1
PB7	20+58 MB	37' RT	1
PB8	21+65 MB	34' RT	1
PB9	99+20 EB	44' RT	1
PB10	96+74 EB	35' RT	1
PB11	99+59 EB	28' RT	1
PB12	99+17 EB	4' LT	1
PB13	99+16 WB	4' RT	1
PB14	23+20 MB	65' LT	1
PB15	24+17 MB	48' LT	1
PB16	23+13 MB	33' LT	1
PB17	100+31 WB	48' LT	1
PB18	100+72 WB	58' LT	1
CATEGORY 0010 SUBTOTAL			**38**

*PAY ITEM IS ALSO SUMMARIZED IN "PULL BOXES NON-CONDUCTIVE - CITY STREET LIGHTING" AND "ITS CONDUIT, PULL BOXES AND CABLE"

EQUIPMENT GROUNDING AND GROUNDED CONDUCTORS

LOCATION (FROM) ITEM NO.		(TO) ITEM NO.	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG (GREEN) LF
S49-0590 USH 10 / STH 66 & IH 39 / USH 51 SB RAMPS			
CB2	to	LB1	50
LB1	to	LB2	202
LB2	to	LB3	154
LB3	to	LB4	184
LB4	to	SB1	560
SB1	to	SB2	156
SB2	to	LB5	86
LB5	to	LB6	162
LB6	to	LB7	112
LB7	to	SB3	364
SB3	to	SB4	66
SB4	to	SB5	148
SB5	to	SB6	74
SB6	to	SB7	186
SB7	to	SB8	136
SB8	to	SB9	54
SB9	to	SB10	58
SB10	to	SB11	134
SB11	to	CB2	40
CAT 0020 TOTAL			2926

PULL BOXES NON-CONDUCTIVE

PULL BOX NUMBER	STATION	OFFSET	653.0164 24x42 INCH EACH
S49-0590 (USH 51 SB RAMP & USH 10 / STH 66)			
PB1	270+75 ZD	41' LT	1
PB2	271+94 ZD	31' LT	1
PB3	273+46 ZD	29' LT	1
PB4	270+71 ZD	6' RT	1
PB5	270+69 ZD	40' RT	1
PB6	270+86 ZD	30' RT	1
PB7	271+94 ZD	30' RT	1
PB8	294+70 ZC	12' LT	1
PB9	294+42 ZC	43' LT	1
PB10	86+53 EB	56' RT	1
PB11	83+96 EB	41' RT	1
PB12	87+07 EB	5' LT	1
PB13	87+13 WB	39' LT	1
PB14	88+03 WB	33' LT	1
PB15	89+39 WB	31' LT	1
PB16	88+21 EB	17' LT	1
PB17	88+48 EB	44' RT	1
CATEGORY 0020 TOTAL			**17**

EQUIPMENT GROUNDING AND GROUNDED CONDUCTORS

LOCATION (FROM) ITEM NO.		(TO) ITEM NO.	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG (GREEN) LF
S49-0589 USH 10 / STH 66 & IH 39 / USH 51 NB RAMPS			
CB3	to	SB1	86
SB1	to	SB2	130
SB2	to	SB3	126
SB3	to	SB4	86
SB4	to	SB5	42
SB5	to	SB6	176
SB6	to	SB7	152
SB7	to	LB1	174
LB1	to	LB2	48
LB2	to	LB3	184
LB3	to	LB4	160
LB4	to	SB8	502
SB8	to	LB5	130
LB5	to	SB9	208
SB9	to	SB10	76
SB10	to	SB11	78
SB11	to	SB12	46
SB12	to	SB13	128
SB13	to	SB14	42
SB14	to	SB15	102
SB15	to	CB3	50
CB3	to	LB6	68
LB6	to	LB7	142
LB7	to	LB8	168
LB8	to	CB3	326
S49-0464 USH 10 & MAPLE BLUFF RD / OLD HWY 18			
CB4	to	SB1	158
SB1	to	SB2	114
SB2	to	SB3	38
SB3	to	SB4	94
SB4	to	SB5	78
SB5	to	SB6	96
SB6	to	SB7	68
SB7	to	SB8	66
SB8	to	SB9	240
SB9	to	LB1	134
LB1	to	SB10	172
SB10	to	SB11	110
SB11	to	SB12	40
SB12	to	SB13	138
SB13	to	SB14	104
SB14	to	SB15	58
SB15	to	SB16	128
SB16	to	LB2	116
LB2	to	CB4	64
CAT 0010 SUBTOTAL			**5446**

3

MONOTUBE POLES, ARMS, AND LUMINAIRES

SIGNAL BASE NUMBER	657.0347 POLES TYPE 9 SPECIAL EACH	657.0351 POLES TYPE 10 OVER HEIGHT EACH	657.0361 POLES TYPE 13 OVER HEIGHT EACH	MONOTUBE ARMS 657.0525 25-FT EACH	MONOTUBE ARMS 657.0530 30-FT EACH	MONOTUBE ARMS 657.0545 45-FT EACH	MONOTUBE ARMS 657.0546 45-FT SPECIAL EACH	657.0812 LUMINAIRE ARMS STEEL 12-FT EACH	659.1125 *LUMINAIRE UTILITY LED C EACH
S49-0590 (USH 51 SB RAMP & USH 10 / STH 66)									
SB5	---	1	---	---	1	---	---	1	1
SB10	---	1	---	---	1	---	---	1	1
CAT 0020 TOTALS	**0**	**2**	**0**	**0**	**2**	**0**	**0**	**2**	**2**
S49-0589 (USH 51 NB RAMP & USH 10 / STH 66)									
SB5	---	1	---	---	1	---	---	1	1
SB12	---	1	---	1	---	---	---	1	1
S49-0464 (USH 10 & MAPLE BLUFF RD / OLD HWY 18)									
SB6	---	1	---	---	1	---	---	1	1
SB8	1	---	---	---	---	---	1	---	---
SB14	---	---	1	---	---	1	---	1	1
SB15	1	---	---	---	---	---	1	---	---
CAT 0010 SUBTOTALS	**2**	**3**	**1**	**1**	**2**	**1**	**2**	**4**	**4**

* PAY ITEM IS ALSO SUMMARIZED IN "TRAFFIC SIGNAL BASES, POLES, ARMS AND LUMINAIRES"

3

TRAFFIC SIGNAL BASES, POLES, ARMS AND LUMINAIRES

SIGNAL BASE NUMBER	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0315 POLES TYPE 4 EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0410 TRAFFIC SIGNAL STANDARDS ALUMINUM 9-FT EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	657.0614 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 8-FT EACH	657.0615 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 8-FT EACH	657.0704 LUMINAIRE ARMS TRUSS TYPE 4-INCH CLAMP 10-FT EACH	657.0705 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 10-FT EACH	657.0709 LUMINAIRE ARMS TRUSS TYPE 4-INCH CLAMP 12-FT EACH	659.1125 *LUMINAIRE UTILITY LED C EACH
S49-0590 (USH 51SB RAMP & USH 10 / STH 66)															
SB1	---	1	1	--	---	---	---	--	--	--	--	1	--	--	1
SB2	1	--	--	--	---	---	1	--	--	--	--	--	--	--	--
SB3	---	1	1	--	---	---	---	1	--	--	--	--	--	--	1
SB4	1	--	--	--	---	---	1	--	--	--	--	--	--	--	--
SB6	1	--	--	--	---	1	---	--	--	--	--	--	--	--	--
SB7	---	1	1	--	---	---	---	--	--	--	--	--	--	1	1
SB8	1	--	--	--	---	---	1	--	--	--	--	--	--	--	--
SB9	1	--	--	--	---	1	---	--	--	--	--	--	--	--	--
SB12	1	--	--	--	---	1	---	--	--	--	--	--	--	--	--
LB1	---	1	--	1	---	---	---	--	1	--	--	--	--	--	1
LB5	---	1	1	--	---	---	---	1	--	--	--	--	--	--	1
CAT 0020 TOTALS	**6**	**5**	**4**	**1**	**0**	**3**	**3**	**2**	**1**	**0**	**0**	**1**	**0**	**1**	**5**

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TRAFFIC SIGNAL BASES, POLES, ARMS AND LUMINAIRES

SIGNAL BASE NUMBER	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0315 POLES TYPE 4 EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0410 TRAFFIC SIGNAL STANDARDS ALUMINUM 9-FT EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	657.0614 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 8-FT EACH	657.0615 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 8-FT EACH	657.0704 LUMINAIRE ARMS TRUSS TYPE 4-INCH CLAMP 10-FT EACH	657.0705 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 10-FT EACH	657.0709 LUMINAIRE ARMS TRUSS TYPE 4-INCH CLAMP 12-FT EACH	659.1125 *LUMINAIRE UTILITY LED C EACH
S49-0589 (USH 51 NB RAMP & USH 10 / STH 66)															
SB1	---	1	1	--	---	---	---	1	--	--	--	--	--	--	1
SB2	1	--	--	--	---	1	---	--	--	--	--	--	--	--	--
SB3	1	--	--	--	---	---	1	--	--	--	--	--	--	--	--
SB4	1	--	--	--	---	1	---	--	--	--	--	--	--	--	--
SB6	1	--	--	--	---	1	---	--	--	--	--	--	--	--	--
SB7	1	--	--	--	---	1	---	--	--	--	--	--	--	--	--
SB8	---	1	1	--	---	---	---	--	--	1	--	--	--	--	1
SB9	1	--	--	--	---	1	---	--	--	--	--	--	--	--	--
SB10	---	1	1	--	---	---	---	1	--	--	--	--	--	--	1
SB11	1	--	--	--	---	1	---	--	--	--	--	--	--	--	--
SB13	1	--	--	--	1	---	---	--	--	--	--	--	--	--	--
SB14	1	--	--	--	---	1	---	--	--	--	--	--	--	--	--
SB15	1	--	--	--	---	1	---	--	--	--	--	--	--	--	--
LB1	---	1	--	1	---	---	---	--	1	--	--	--	--	--	1
LB2	---	1	--	1	---	---	---	--	1	--	--	--	--	--	1
LB3	---	1	--	1	---	---	---	--	--	--	--	--	2	--	2
LB4	---	1	--	1	---	---	---	--	--	--	2	--	---	--	2
LB5	---	1	--	1	---	---	---	--	1	--	--	--	---	--	1
LB6	---	1	--	1	---	---	---	--	1	--	--	--	---	--	1
LB7	---	1	--	1	---	---	---	--	1	--	--	--	---	--	1
LB8	---	1	--	1	---	---	---	--	1	--	--	--	---	--	1
S49-0464 (USH 10 & MAPLE BLUFF RD / OLD HWY 18)															
SB1	---	1	1	--	---	---	---	1	--	--	--	--	--	--	1
SB2	1	--	--	--	---	---	1	--	--	--	--	--	--	--	--
SB3	1	--	--	--	---	1	---	--	--	--	--	--	--	--	--
SB4	1	--	--	--	1	---	---	--	--	--	--	--	--	--	--
SB5	1	--	--	--	---	1	---	--	--	--	--	--	--	--	--
SB7	1	--	--	--	1	---	---	--	--	--	--	--	--	--	--
SB9	1	--	--	--	---	---	1	--	--	--	--	--	--	--	--
SB10	---	1	1	--	---	---	---	1	--	--	--	--	--	--	1
SB11	1	--	--	--	---	1	---	--	--	--	--	--	--	--	--
SB12	1	--	--	--	---	---	1	--	--	--	--	--	--	--	--
SB13	1	--	--	--	---	1	---	--	--	--	--	--	--	--	--
SB16	1	--	--	--	---	---	1	--	--	--	--	--	--	--	--
LB1	---	1	1	--	---	---	---	1	--	--	--	--	--	--	1
LB2	---	1	1	--	---	---	---	1	--	--	--	--	--	--	1
CAT 0010 SUBTOTALS	**20**	**15**	**7**	**8**	**3**	**12**	**5**	**6**	**6**	**1**	**2**	**0**	**2**	**0**	**17**

* PAY ITEM IS ALSO SUMMARIZED IN "MONOTUBE POLES, ARMS, AND LUMINAIRES"

TRAFFIC SIGNAL FACES, AND PEDESTRIAN PUSH BUTTONS

SIGNAL BASE NUMBER	HEAD NUMBER	TRAFFIC SIGNAL FACE 658.0173 3S-12 INCH EACH	TRAFFIC SIGNAL FACE 658.0174 4S-12 INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH	658.0500 PEDESTRIAN PUSH BUTTON EACH	REMARKS
S49-0590 (USH 51 SB RAMP & USH 10 / STH 66)						
SB1	8A	1	---	---	---	
SB2	5C	---	1	---	---	
	6A	1	---	---	---	
	8-1	---	---	1	1	INSTAL PUSH BUTTON SIGN R10-3ER, 6"x10"
SB3	6D	1	---	---	---	
	8-2	---	---	1	1	INSTALL PUSH BUTTON SIGN R10-3EL, 6"x10"
SB4	5B	---	1	---	---	
	6-1	---	---	1	1	INSTAL PUSH BUTTON SIGN R10-3ER, 6"x10"
SB5	2B	1	---	---	---	
	2C	1	---	---	---	
	8C	1	---	---	---	
SB6	8B	1	---	---	---	
SB7	2A	1	---	---	---	
SB8	5A	---	1	---	---	
	6-2	---	---	1	1	INSTALL PUSH BUTTON SIGN R10-3EL, 6"x10"
SB9	OLA-2	1	---	---	---	
SB10	OLA-3	1	---	---	---	
	6B	1	---	---	---	
	6C	1	---	---	---	
SB11	OLA-1	1	---	---	---	
CAT 0020 TOTALS		**13**	**3**	**4**	**4**	
S49-0589 (USH 51 NB RAMP & USH 10 / STH 66)						
SB1	4-2	---	---	1	1	INSTALL PUSH BUTTON SIGN R10-3EL, 6"x10"
SB2	6A	1	---	---	---	
SB3	1A	---	1	---	---	
	4-1	---	---	1	1	INSTALL PUSH BUTTON SIGN R10-3EL, 6"x10"
SB4	4C	1	---	---	---	
SB5	2B	1	---	---	---	
	2C	1	---	---	---	
	4B	1	---	---	---	
SB6	4A	1	---	---	---	
SB7	4D	1	---	---	---	
SB8	1C	---	1	---	---	
	2A	1	---	---	---	
SB9	2D	1	---	---	---	
SB10	1B	---	1	---	---	
SB11	8C	1	---	---	---	
SB12	6B	1	---	---	---	
	6C	1	---	---	---	
	8B	1	---	---	---	
SB13	6-2	---	---	1	1	INSTAL PUSH BUTTON SIGN R10-3ER, 6"x10"
SB14	8A	1	---	---	---	
SB15	8D	1	---	---	---	
	6-1	---	---	1	1	INSTALL PUSH BUTTON SIGN R10-3EL, 6"x10"
CAT 0010 SUBTOTALS		**15**	**3**	**4**	**4**	

TRAFFIC SIGNAL FACES, AND PEDESTRIAN PUSH BUTTONS

SIGNAL BASE NUMBER	HEAD NUMBER	TRAFFIC SIGNAL FACE 658.0173 3S-12 INCH EACH	TRAFFIC SIGNAL FACE 658.0174 4S-12 INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH	658.0500 PEDESTRIAN PUSH BUTTON EACH	REMARKS
S49-0464 (USH 10 & MAPLE BLUFF RD / OLD HWY 18)						
SB1	1B	---	1	---	---	
	2E	1	---	---	---	
	8-2	---	---	1	1	INSTALL PUSH BUTTON SIGN R10-3ED, 6"x10"
	8-3	---	---	1	---	
SB2	5A	---	1	---	---	
	OLB-2	1	---	---	---	
SB3	OLB-3	1	---	---	---	
SB4	6-4	---	---	1	1	INSTAL PUSH BUTTON SIGN R10-3ER, 6"x10"
SB5	OLB-1	1	---	---	---	
SB6	6B	1	---	---	---	
	6C	1	---	---	---	
	6-2	---	---	1	1	INSTALL PUSH BUTTON SIGN R10-3ED, 6"x10"
	6-3	---	---	1	---	
SB7	8-1	---	---	1	1	INSTALL PUSH BUTTON SIGN R10-3EL, 6"x10"
SB8	4C	1	---	---	---	
	7A	---	1	---	---	
	7B	---	1	---	---	
	8A	1	---	---	---	
SB9	4B	1	---	---	---	TUNNEL VISORS REQUIRED
	5C	---	1	---	---	TUNNEL VISORS REQUIRED
	6A	1	---	---	---	
	6-1	---	---	1	1	INSTAL PUSH BUTTON SIGN R10-3ER, 6"x10"
SB10	5B	---	1	---	---	
	6D	1	---	---	---	
SB11	OLA-3	1	---	---	---	
SB12	1A	---	1	---	---	
	OLA-2	1	---	---	---	
SB13	OLA-1	1	---	---	---	
SB14	2B	1	---	---	---	
	2C	1	---	---	---	
	2D	1	---	---	---	
SB15	3A	---	1	---	---	
	3B	---	1	---	---	
	4A	1	---	---	---	
	8C	1	---	---	---	
SB16	1C	---	1	---	---	TUNNEL VISORS REQUIRED
	2A	1	---	---	---	
	8B	1	---	---	---	TUNNEL VISORS REQUIRED
	8-4	---	---	1	1	INSTAL PUSH BUTTON SIGN R10-3ER, 6"x10"
CAT 0010 SUBTOTALS		**21**	**10**	**8**	**6**	

NOTE: BACKPLATES REQUIRED ON ALL TRAFFIC SIGNAL FACES

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

3

REMOVING CONCRETE PAVEMENT

STATION - STATION	WIDTH FEET	204.0100 SY	REMARKS
78+12EB - 80+80EB	12	288	LEFT TURN LANE
80+48EB - 80+79EB	VAR	36	ISLAND
81+36WB - 85+64WB	12	644	LEFT TURN LANE
81+31WB - 82+47WB	12	190	RIGHT TURN LANE
62+77CC - 63+21CC	VAR	30	MEDIAN ISLAND
62+95CC - 63+20CC	VAR	41	ISLAND
	TOTAL	1228	

REMOVING STORM SEWER (SIZE)

STATION - STATION	LOCATION	204.0245.01 12-INCH LF	REMARKS
78+25EB	LT & RT	12	PROPOSED INLET
	TOTAL	12	

3

REMOVING CONCRETE SIDEWALK

STATION - STATION	LOCATION	204.0155 SY	REMARKS
77+44EB - 77+88EB	LT	18	MEDIAN
81+50EB - 81+62EB	LT	10	MEDIAN
81+42WB - 81+52WB	LT	19	CURB RAMP
81+87EB - 82+58EB	RT	38	CURB RAMP
62+79CC - 63+16CC	LT	19	MEDIAN
62+94CC - 63+24CC	RT	15	ISLAND
	TOTAL	121	

REMOVING CURB & GUTTER

STATION - STATION	LOCATION	204.0150 LF	REMARKS
80+57EB - 80+71EB	RT	15	CURB RAMP
80+56EB - 80+79EB	RT	20	ISLAND CURB RAMP
81+32WB - 81+53WB	LT	22	DRIVEWAY/CURB RAMP
81+59EB - 85+75EB	LT	416	MEDIAN
81+87EB - 82+00EB	RT	30	CURB RAMP
84+50WB - 84+75WB	RT	25	MEDIAN - STAGING
	TOTAL	528	

EARTHWORK SUMMARY

STATION - STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CY	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (2)	UNEXPANDED FILL	EXPANDED FILL FACTOR 1.25	MASS ORDINATE +/- (3)	WASTE	COMMENT
78+00EB - 85+50EB	STH 66 EB & WB	1,113	270	843	36	45	798	798	
	TOTALS	1,113	270	843	36	45	798	798	

NOTES:

(1) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

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

(3) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

REMOVING ASPHALTIC SURFACE

STATION - STATION	LOCATION	204.0110 SY	REMARKS
80+49EB - 80+67EB	RT	28	CURB RAMP
80+78WB - 81+08WB	LT	32	LOOP DETECTOR
81+30WB - 81+56WB	LT	7	CURB RAMP/DRIVEWAY
61+66CC - 61+78CC	RT	29	LOOP DETECTOR
	TOTAL	96	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

CONCRETE PAVEMENT REPAIR

STATION	-	STATION	LOCATION	416.1710 CONCRETE PAVEMENT REPAIR SY	416.1715 CONCRETE PAVEMENT REPAIR SHES SY	415.1720 CONCRETE PAVEMENT REPLACEMENT SY	*416.0610 DRILLED TIE BARS EACH	*416.0620 DRILLED DOWEL BARS EACH	*690.0250 SAWING CONCRETE LF	REMARKS
77+63	-	77+75	EB RT	32.3	---	---	8	32	72	LOOP DETECTOR
78+19	-	78+29	EB RT	13.3	---	---	4	16	44	INLET
79+78	-	79+88	EB RT	---	13.3	---	4	16	44	INLET
81+64	-	81+74	EB RT	---	13.3	---	4	16	44	INLET
82+23	-	82+33	EB RT	---	40.2	---	0	48	92	STORM SEWER
83+83	-	83+95	EB RT	31.7	---	---	4	32	72	LOOP DETECTOR
81+50	-	81+62	WB LT	---	32.7	---	0	32	60	STORM SEWER
84+45	-	84+57	WB LT	32.0	---	---	0	32	72	LOOP DETECTOR
62+65	-	63+32	CC RT	---	---	266	25	45	141	LOOP DETECTOR
			TOTAL	109	100	266	49	269	641	

*SEE INDIVIDUAL ITEMS FOR ADDITIONAL QUANTITIES

CONCRETE CURB & GUTTER

STATION - STATION	LOCATION	601.0405 18-INCH TYPE A LF	601.0409 30-INCH TYPE A LF	REMARKS
78+12EB - 80+67EB	LT	276	---	MEDIAN
79+73EB - 80+80EB	LT	214	---	LEFT TURN ISLAND
80+23EB - 80+38EB	RT	---	15	TEMPORARY CURB RAMP
80+57EB - 80+71EB	RT	---	15	CURB RAMP
80+65EB - 80+79EB	RT	37	---	ISLAND CURB RAMP
81+39EB - 81+57EB	RT	35	---	ISLAND CURB RAMP
81+31WB - 82+47WB	LT	88	152	RIGHT TURN LANE
81+36WB - 84+15WB	RT	560	---	LEFT TURN ISLAND
81+59EB - 85+75EB	LT	832	---	MEDIAN
82+23EB - 82+33EB	RT	---	79	INLET/CURB RAMP/LOOP DETECTOR
62+82CC - 63+14CC	LT	32	---	MEDIAN
	TOTAL	2074	261	

DRILLED TIE BARS

STATION	-	STATION	LOCATION	416.0610 EACH
78+12	-	80+80	LT	107
80+48	-	80+84	WB RT	14
81+36	-	85+64	WB LT	171
81+36	-	85+75	EB LT	175
81+34	-	82+47	WB LT	45
80+64			EB RT	6
80+75			EB RT	14
81+50			EB RT	10
81+95			EB RT	6
			TOTAL	548

*SEE CONCRETE PAVEMENT REPAIR FOR ADDITIONAL QUANTITIES

CONCRETE PAVEMENT

STATION	-	STATION	LOCATION	9-INCH 415.0090 SY	11-INCH 415.0110 SY	REMARKS
78+13	-	80+84	EB LT	317	---	LEFT TURN LANE
81+36	-	86+35	WB RT	---	734	LEFT TURN LANE
81+31	-	82+47	WB LT	259	---	RIGHT TURN LANE
			TOTAL	576	734	

ASPHALTIC SURFACE TEMPORARY

STATION	-	STATION	LOCATION	THICKNESS INCH	465.0125 TON	REMARKS
62+77	-	63+20	CC LT	3.5	6	STAGE 1
62+96	-	63+26	CC RT	3.5	9	STAGE 1A
84+00	-	85+75	EB LT	3.5	57	STAGE 2
				TOTAL	72	

ASPHALTIC SURFACE PATCHING

STATION	-	STATION	LOCATION	THICKNESS INCH	465.0110 TON	REMARKS
80+95	-	80+95	WB LT	6	22	LOOP DECTOR - DRIVEWAY
81+30	-	81+56	WB LT	4	2	CURB RAMP / DRIVEWAY
61+66	-	61+78	CC RT	6	11	LOOP DECTOR
				TOTAL	35	

BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0110 3/4-INCH TON	THICKNESS IN	305.0120 1 1/4-INCH TON	REMARKS
77+88 - 80+84	EB LT	---	6	174	LEFT TURN LANE
77+88 - 80+84	EB LT	---	11	101	ISLANDS
81+31 - 82+47	WB LT	5	6	112	RIGHT TURN LANE
81+31 - 82+47	WB LT	---	11	12	ISLAND
81+36 - 86+35	WB RT	---	6	401	LEFT TURN LANE
81+36 - 86+35	WB RT	---	12	207	ISLANDS
	TOTALS	5		1007	

DRILLED DOWEL BARS

STATION	LOCATION	416.0620 EACH
80+84EB	LT	11
81+36EB	LT	11
81+32WB	LT	8
82+47EB	LT	8
	TOTAL	38

*SEE CONCRETE PAVEMENT REPAIR FOR ADDITIONAL QUANTITIES

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STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	522.1012 APRON ENDWALLS FOR CP RC 12-INCH EACH	INLETS 611.3003 3-FT EACH	INLETS 611.3004 4-FT EACH	INLET COVERS 611.0624 TYPE H EACH	INLET COVERS 611.0666 TYPE Z EACH	611.2003 MANHOLES 3-FT EACH	611.0530 MANHOLE COVERS TYPE J EACH	633.5200 MARKERS CULVERT END EACH	RIM ELEVATION	INVERT** ELEVATION	DEPTH*** FT
1.1	79+83.48EB	0.7' LT	---	1	---	---	1	---	---	---	1095.76	1092.75	2.09
1.2	79+83.42EB	16.1' LT	---	1	---	---	1	---	---	---	1095.60	1092.60	2.08
1.3	78+24.86EB	2.3' LT	---	1	---	---	1	---	---	---	1095.02	1091.90	2.20
2.1	81+59.63WB	51.4' LT	---	---	1	1	---	---	---	---	1095.64	1092.64	2.17
2.2	81+44.05WB	28.5' LT	---	1	---	---	1	---	---	---	1096.08	1092.58	2.58
2.3	81+57.22WB	26.1' LT	---	---	---	---	---	1	1	---	1096.22	1092.51	2.64
2.4	81+54.64WB	0.7' RT	---	1	---	---	1	---	---	---	1096.60	1092.38	3.31
2.5	81+68.92WB	25.5' RT	---	1	---	---	1	---	---	---	1096.62	1092.35	3.36
2.6	81+67.78WB	21.0' RT	---	1	---	---	1	---	---	---	1096.52	1092.25	3.36
2.7	81+69.10EB	1.7' LT	---	---	1	1	---	---	---	---	1096.62	1092.23	3.56
2.8	82+27.98EB	3.6' LT	---	---	---	---	---	1	1	---	1097.19	1091.93	4.19
3.1	84+25.16WB	22.0' RT	---	1	---	---	1	---	---	---	1097.50	1094.83	1.75
3.2	84+24.69WB	46.4' LT	1	---	---	---	---	---	---	1	---	1095.14	---
		TOTALS	**1**	**8**	**2**	**2**	**8**	**2**	**2**	**1**			

* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

STORM SEWER PIPE REINFORCED CONCRETE AND CONCRETE COLLARS FOR PIPE

FROM		TO	608.0312 12-INCH CLASS III LF	608.0412 12-INCH CLASS IV LF	520.8000 CONCRETE COLLARS FOR PIPE EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
1.1	-	1.2	---	15	---	1092.75	1092.60	0.0100
1.2	-	1.3	---	159	---	1092.60	1091.90	0.0044
1.3	-	EXIST PIPE	---	6	1	1091.90	1091.86	0.0067
EXIST PIPE	-	1.3	---	8	1	1091.95	1091.90	0.0062
2.1	-	2.3	---	25	---	1092.64	1092.51	0.0050
2.2	-	2.3	---	13	---	1092.58	1092.51	#VALUE!
2.3	-	2.4	---	27	---	1092.51	1092.38	0.0050
2.4	-	2.5	5	---	---	1092.38	1092.35	0.0060
2.5	-	2.6	20	---	---	1092.35	1092.25	0.0050
2.6	-	2.7	5	---	---	1092.25	1092.23	0.0040
2.7	-	2.8	59	---	---	1092.23	1091.93	0.0051
2.8	-	E2.9	41	---	---	1091.93	1090.04	0.0461
3.1	-	3.2	---	68	---	1094.83	1093.97	0.0126
		TOTALS	**130**	**321**	**2**			

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RECONSTRUCTING INLETS

STATION	LOCATION	611.0430 EACH	REMARKS
82+28EB	RT	1	INSTALL 12" SSPRC
	TOTAL	1	

CONCRETE SAFETY ISLANDS

STATION	LOCATION	602.2400 SF
80+65	EB RT	323
81+50	EB RT	372
	TOTAL	695

CONCRETE MEDIAN SLOPED NOSE

STATION	LOCATION	620.0300 SF	REMARKS
79+76EB	LT	24	TYPE 1
80+63WB	RT	26	TYPE 1
81+64EB	LT	27	TYPE 1
81+72WB	LT	20	TYPE 1
84+12WB	RT	48	TYPE 1
	TOTAL	145	

3

CONCRETE SIDEWALK

STATION - STATION	LOCATION	602.0405 4-INCH SF
77+44 - 80+62	MEDIAN	1252
79+79 - 80+75	EB LT	292
80+60	EB RT	232
81+50	WB LT	49
81+85 - 82+58	EB RT	589
81+35 - 81+70	WB LT	165
81+40 - 84+70	WB LT	1290
81+67 - 85+75	MEDIAN	2383
62+82 - 63+13	CC LT	135
	TOTAL	6387

CURB RAMP DETECTABLE WARNING FIELD

STATION	LOCATION	602.0505 YELLOW SF	REMARKS
80+60EB	RT	16	
80+73EB	RT	32	ISLAND
81+50WB	LT	10	
81+50EB	RT	42	ISLAND
82+00EB	RT	16	
	TOTAL	116	

TEMPORARY DETECTABLE WARNING FIELD

STATION	LOCATION	SPV.0045.01 DAY	REMARKS
80+36EB	RT	35	STAGE 1A, 1B, 1C
80+71EB	RT	35	STAGE 1A, 1B, 1C
81+25EB	RT	7	STAGE 1A
81+45EB	RT	28	STAGE 1B, 1C
81+50EB	RT	35	STAGE 1A, 1B, 1C
81+57EB	RT	28	STAGE 1B, 1C
	TOTAL	168	

WATER

STATION - STATION	LOCATION	624.0100 MGAL
UNDISTRIBUTED		15.1
	TOTAL	15.1

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MARKING LINE EPOXY

STATION	-	STATION	LOCATION	646.1020 4-INCH WHITE LF	646.1020 4-INCH YELLOW LF	646.3020 8-INCH WHITE LF
77+25	-	80+75	EB	88	---	291
81+62	-	85+75	EB	103	---	---
82+09	-	85+75	EB AUXILIARY LANE	60	---	125
81+56	-	85+75	WB	434	---	240
80+60	-	81+61	INTERSECTION MINI DASHES	---	65	---
61+50	-	63+17	COUNTRY CLUB DR	---	256	158
80+94	-	81+08	WB DRIVEWAY	---	86	43
			SUBTOTAL	685	407	
			TOTAL		**1092**	**857**

MARKING ARROW & WORD EPOXY

STATION	LOCATION	646.5020 ARROW EACH	646.5120 WORD EACH	REMARKS
79+23	EB LT	1	---	TYPE 2
80+29	EB LT	1	---	TYPE 2
82+00	WB RT	1	---	TYPE 2
82+40	WB RT	---	1	
82+48	WB LT	1	---	TYPE 2
83+23	WB LT	1	---	TYPE 2
84+44	WB RT	1	---	TYPE 2
84+73	EB RT	1	---	TYPE 2
85+39	EB RT	---	1	RETRACE
85+71	EB RT	1	---	TYPE 2
62+00	CC RT	2	---	TYPE 2 & TYPE 3
62+94	CC RT	3	---	TYPE 1 & TYPE 2
80+93	WB LT	2	---	TYPE 2 & TYPE 3 (DRIVEWAY)
	TOTAL	15	2	

3

MARKING CROSSWALK EPOXY TRANSVERSE LINE

STATION	LOCATION	646.7420 6-INCH LF	REMARKS
80+67	EB RT	32	RIGHT TURN LANE
63+26	EB RT	120	COUNTRY CLUB DR
81+49	EB RT & LT	90	STH 66 EB
81+49	WB LT	56	STH 66 WB
81+49	WB LT	31	RIGHT TURN LANE
81+75	EB RT	74	RIGHT TURN LANE
	TOTAL	403	

MARKING ISLAND NOSE & CURB EPOXY

STATION	LOCATION	646.8220 ISLAND NOSE EPOXY EACH	646.8120 CURB EPOXY LF	REMARKS
80+62	WB RT	1	24	
81+65	EB LT	1	29	
63+16	CC LT	1	17	
	TOTAL	3	70	

MARKING STOP LINE EPOXY 18-INCH

STATION	LOCATION	646.6120 LF	REMARKS
80+58	EB LT	11	LEFT TURN LANE
80+75	EB RT	24	RETRACE
81+55	WB LT	24	RETRACE
81+72	WB RT	13	LEFT TURN LANE
80+93	WB LT	35	RETRACE
63+00	CC RT	27	RIGHT TURN LANE
63+18	CC RT	22	
	TOTAL	156	

MARKING REMOVAL LINE WIDE

STATION	LOCATION	646.9200 LF	REMARKS - EXISTING MARKING
63+16	CC RT	12	STOP LINE
	TOTAL	**12**	

TEMPORARY MARKING STOP LINE 18-INCH

STATION	LOCATION	649.0850 REMOVALBLE TAPE LF	REMARKS
63+10	CC LT & RT	11	STAGE 1A
63+10	CC RT	44	STAGE 1B
	TOTAL	55	

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SIGNS TYPE II

SIGN NO.	SIGN CODE	MESSAGE	SIZE	634.0808 POSTS TUBULAR STEEL 2X2-INCH X 8-FT EACH	POSTS WOOD 4X6-INCH 634.0612 12-FT EACH	634.0614 14-FT EACH	634.0616 16-FT EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF	637.2210 SIGNS TYPE II REFLECTIVE H SF	638.2102 MOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.2602 REMOVING SIGNS TYPE II EACH	REMARKS
1-01	R1-1F	STOP	36"X36"	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
1-02	R1-1F	STOP	36"X36"	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
1-03	R4-7	KEEP RIGHT	24"X30"	---	---	---	---	---	5.00	---	---	---	ON SIGNAL POLE
1-04	---	STOP, KEEP RIGHT	---	---	---	---	---	---	---	---	---	1	REMOVE
1-05	R1-1F	STOP	36"X36"	---	---	---	---	---	7.46	---	---	1	ON SIGNAL POLE
1-06	R1-2	YIELD	48"X42"	---	---	---	1	---	7.00	---	---	---	---
1-07	R1-1F	STOP	36"X36"	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
1-08	---	STOP	---	---	---	---	---	---	---	---	---	1	REMOVE
1-09	R1-1F	STOP	36"X36"	---	---	---	---	---	7.46	---	---	---	ON SIGNAL POLE
1-10	---	STOP, KEEP RIGHT	---	---	---	---	---	---	---	---	---	1	REMOVE
1-11	R3-20L	BEGIN LEFT TURN LANE	24"X36"	---	---	1	---	---	6.00	---	---	---	---
1-12	W12-1D	DOUBLE DIAGONAL ARROW	24"X24"	1	---	---	---	4.00	---	---	---	---	---
1-13	---	DOUBLE DIAGONAL ARROW	---	---	---	---	---	---	---	1	---	---	MOVE
1-14	R1-1F	STOP	36"X36"	---	---	---	---	---	7.46	---	---	1	ON SIGNAL POLE
1-15	R4-7	KEEP RIGHT	24"X30"	---	---	---	---	---	5.00	---	---	1	ON SIGNAL POLE
1-16	R1-1F	STOP	36"X36"	---	---	---	---	---	7.46	---	---	---	SAME SIGNAL POLE AS 1-16
1-17	---	DIAGONAL ARROW	---	---	---	---	---	---	---	1	---	---	MOVE
1-18	---	DOUBLE DIAGONAL ARROW	---	---	---	---	---	---	---	1	---	---	MOVE
1-19	R6-3	DIVIDED HIGHWAY CROSSING	30"X24"	---	---	---	---	---	5.00	---	---	---	ON SIGNAL POLE
1-20	R1-1F	STOP	36"X36"	---	---	---	---	---	7.46	---	---	1	SAME SIGNAL POLE AS 1-19
1-21	R1-1F	STOP	36"X36"	---	---	---	---	---	7.46	---	---	1	ON SIGNAL POLE
1-22	R4-7	KEEP RIGHT	24"X30"	---	---	---	---	---	5.00	---	---	---	ON SIGNAL POLE
1-23	R1-1F	STOP	36"X36"	---	---	---	---	---	7.46	---	---	---	SAME SIGNAL POLE AS 1-22
2-01	R3-20LL	BEGIN LEFT TURN LANE	24"X36"	---	---	1	---	---	6.00	---	---	---	---
2-02	D1-1	COUNTRY CLUB DR RT ARROW	108"X15"	---	2	---	---	---	11.25	---	---	---	---
2-03	---	WEST 66	---	---	---	---	---	---	---	1	---	---	MOVE
2-04	---	HOSPITAL	---	---	---	---	---	---	---	1	---	---	MOVE
2-23	---	AMHERST, WAUPACA, PORTAGE	---	---	---	---	---	---	---	---	2	1	REMOVE
		TOTALS		**1**	**2**	**2**	**1**	**4.00**	**124.85**	**5**	**2**	**9**	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

TRAFFIC CONTROL

LOCATION	STAGE DAYS	QTY	643.0300 DRUMS DAY	QTY	643.0420 BARRICADES TYPE III DAY	QTY	643.0705 WARNING LIGHTS TYPE A DAY	QTY	643.0900 TRAFFIC CONTROL SIGNS DAY	REMARKS
STAGE 1	21	13	273	1	21	2	42	9	189	
STAGE 1 SUBTOTAL			273		21		42		189	
STAGE 2	7	0	0	0	0	0	0	2	14	
STAGE 2 SUBTOTAL			0		0		0		14	
STAGE 3	67	0	0	0	0	0	0	12	804	
STAGE 3 SUBTOTAL			0		0		0		804	
STAGE 4	67	0	0	0	0	0	0	12	804	
STAGE 4 SUBTOTAL			0		0		0		804	
STAGE 5	21	38	798	1	21	2	42	16	336	
STAGE 5 SUBTOTAL			798		21		42		336	
TOTALS			**1071**		**42**		**84**		**2147**	

TEMPORARY PEDESTRIAN

STATION	-	STATION	LOCATION	STAGE DAYS	644.1430 TEMPORARY PEDESTRIAN SURFACE PLATE SF	QTY	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF	REMARKS
80+13	-	80+74	EB RT	25	---	1	25	81	STAGE 1A TO STAGE 1C
81+25	-	82+73	EB RT	5	30	1	5	271	STAGE 1A
81+44	-	81+58	EB RT	---	---	---	---	20	STAGE 1B TO STAGE 1C
			TOTALS		**30**		**30**	**372**	

TEMPORARY MARKING ARROW

STATION	LOCATION	649.0505 PAINT EACH	649.0550 REMOVABLE TAPE EACH	REMARKS
62+89	CC RT	1	---	STAGE 1 TYPE 2
62+89	CC RT	1	---	STAGE 1A TYPE 3
62+89	CC RT	---	1	STAGE 1B TYPE 3
62+89	CC RT	---	1	STAGE 1C TYPE 3
80+92	WB LT	---	1	STAGE 5B TYPE 2 DRIVEWAY
TOTAL		2	3	

TEMPORARY MARKING REMOVABLE TAPE

STATION	-	STATION	LOCATION	APPROXIMATE SERVICE PERIOD	649.0150 TAPE 4-INCH WHITE LF	649.0150 TAPE 4-INCH YELLOW LF	649.0250 TAPE 8-INCH LF	649.0960 MASK OUT TAPE 6-INCH LF	REMARKS
61+75	-	63+10	CC LT & RT	1 WEEK	135	270	---	---	STAGE 1A
80+26	-	82+64	EB RT	2 WEEKS	129	---	---	---	STAGE 1A
61+25	-	63+33	CC LT & RT	2 WEEKS	---	345	35	---	STAGE 1B
81+58	-	82+10	EB RT	2 WEEKS	140	---	---	---	STAGE 1B
68+57	-	71+77	EB	4 WEEKS	320	---	---	80	STAGE 5
81+64	-	87+00	WB	2 WEEKS	250	495	133	---	STAGE 5
79+00	-	80+75	EB	2 WEEKS	---	175	75	---	STAGE 5A
84+15	-	85+25	WB	2 WEEKS	---	---	222	---	STAGE 5A
80+75	-	81+25	DRIVEWAY	3 WEEKS	---	120	---	162	STAGE 5B
81+52	-	84+00	WB	2 WEEKS	249	---	50	25	STAGE 5B
89+12	-	93+21	WB	2 WEEKS	320	---	376	---	STAGE 5B
				SUBTOTAL	**1543**	**1405**			
				TOTALS	**2948**		**891**	**267**	

TRAFFIC CONTROL SIGNS FIXED MESSAGE

MESSAGE	SIZE	QTY	643.1000 SF	REMARKS
NEAR LANE	24"X24"	3	12.00	
FAR LANE	24"X24"	1	4.00	
NO ACCESS TO E66 1.8 MILES AHEAD	66"X36"	1	16.50	
NO ACCESS TO E66 1 MILE AHEAD	66"X36"	1	16.50	
	TOTAL		**49.00**	

TEMPORARY TRAFFIC SIGNALS

STATION - STATION	LOCATION	661.0200 FOR INTERSECTIONS (LOCATION) LS	SPV.0105.05 TEMPORARY VEHICLE DETECTION LS	REMARKS
80+50 - 82+00	STH 66 & COUNTRY CLUB DR	1	1	STAGE 1 TO STAGE 5
	TOTALS	**1**	**1**	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

SAWING CONCRETE

STATION - STATION	LOCATION	690.0250 LF	REMARKS
78+12EB - 80+80EB	LT	328	LEFT TURN LANE
80+23EB - 80+38EB	RT	20	TEMPORARY CURB RAMP
80+57EB - 80+71EB	RT	20	CURB RAMP
80+48EB - 80+79EB	RT	85	ISLAND CURB RAMP
80+76WB - 81+07WB	LT	79	LOOP DETECTOR - DRIVEWAY
81+31WB - 82+47WB	LT	167	RIGHT TURN LANE
81+36WB - 85+64WB	RT	455	LEFT TURN LANE
81+36EB - 85+75EB	LT	264	MEDIAN
81+39 - 81+57	RT	65	ISLAND CURB RAMP
81+87 - 82+58	RT	40	CURB RAMP
82+38EB	RT	5	SIDEWALK
62+77CC - 63+21	LT	55	MEDIAN
	TOTAL	1583	

*SEE CONCRETE PAVEMENT REPAIR FOR ADDITIONAL QUANTITIES

SAWING ASPHALT

STATION	LOCATION	690.0150 LF	REMARKS
80+35EB	RT	8	CURB RAMP
80+76WB - 81+07WB	LT	41	LOOP DETECTOR - DRIVEWAY
81+30WB - 81+56WB	LT	36	CURB RAMP
82+47WB	LT	3	SHOULDER
61+66CC - 61+78CC	RT	55	LOOP DETECTOR
	TOTAL	143	

MOBILIZATIONS EROSION CONTROL

STATION - STATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	REMARKS
76+50EB - 85+75EB	2	1	STAGE 1 & 5
TOTALS	2	1	

CONCRETE PAVEMENT JOINT LAYOUT 6290-09-71

LOCATION	415.5110.S.03 LS	REMARKS
STH 66 & COUNTRY CLUB DR INTERSECTION	1	
TOTAL	1	

SEED WATER

STATION - STATION	LOCATION	WEEKS	630.0500 MGAL	REMARKS
UNDISTRIBUTED		4	7.3	
	TOTAL		7.3	

TOPSOIL, SEED, FERTILIZER AND EROSION MAT

STATION - STATION	LOCATION	625.0100 TOPSOIL SY	630.0140 SEEDING MIXTURE #40 LB	628.2008 URBAN CLASS I TYPE B SY	SPV.0030.01 FERTILIZER FOR LAWN TYPE TURF CWT	SPV.0180.01 PREPARING TOPSOIL FOR LAWN TYPE TURF SY	REMARKS
80+49EB - 80+69EB	RT	24	0.4	24	0.02	24	CURB RAMP
81+35WB - 82+47WB	LT	192	3.5	192	0.12	192	
81+80EB - 82+58EB	RT	64	1.2	64	0.04	64	CURB RAMP
	TOTAL	280	5.0	280	0.18	280	

STREET SWEEPING

LOCATION	SPV.0075.01 HOUR	REMARKS
STH 66/COUNTRY CLUB DR	30	
TOTAL	30	

INLET PROTECTION

STATION	LOCATION	628.7015 TYPE C EACH
76+64EB	RT	1
78+25EB	LT & RT	2
79+83EB	LT	2
81+44WB	LT	1
81+55WB	RT	2
81+60WB	LT	1
81+70EB	LT	2
82+26EB	RT	1
84+25WB	RT	1
60+80CC	LT & RT	2
TOTALS		15

CONSTRUCTION STAKING

STATION - STATION	LOCATION	650.4000 STORM SEWER EACH	650.4500 SUBGRADE LF	650.7000 CONCRETE PAVEMENT LF	650.9000 CURB RAMPS EACH	650.9920 SLOPE STAKES LF	REMARKS
78+12 - 80+84	EB	3	272	272	2	---	
81+36 - 85+75	WB	6	439	439	3	115	
81+70 - 82+10	EB	1	---	---	1	---	
TOTALS		10	711	711	6	115	

GRADING AND SHAPING CURB RAMPS

STATION	LOCATION	SPV.0060.01 EACH	*COMMON CY	*BORROW CY	REMARKS
80+58	EB RT	1	2	2	INCLUDES TEMPORARY CURB RAMP RESTORATION
82+12	EB RT	1	2	0	
TOTALS		2	4	2	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

3

REMOVING CONCRETE BASES - TRAFFIC SIGNALS

BASE NUMBER	STATION	OFFSET	* 204.0195 EACH
S49-0910 STH 66 & COUNTRY CLUB DR			
ECB-1	62+68 C	64' RT	1
ESB1	62+83 CC	64' RT	1
ESB2	63+09 CC	26' RT	1
ESB3	63+08 CC	3' LT	1
ESB4	80+64 EB	30' RT	1
ESB5	80+61 EB	17' LT	1
ESB6	80+42 WB	41' LT	1
ESB7	80+71 WB	46' LT	1
ESB8	81+45 WB	53' LT	1
ESB9	81+62 WB	43' LT	1
ESB10	81+59 EB	9' LT	1
ESB11	81+94 EB	5' LT	1
		TOTAL	**12**

* PAY ITEM IS ALSO SUMMARIZED IN "EXISTING CITY STREET LIGHTING EQUIPMENT REMOVAL"

REMOVING CONCRETE BASES - CITY STREET LIGHTING

BASE NUMBER	STATION	OFFSET	*204.0195 EACH
EXSL3	78+49 EB	64' RT	1
EXSL4	79+54 EB	13' LT	1
EXSL5	80+45 EB	15' LT	1
EXSL6	82+02 EB	8' LT	1
EXSL7	83+44 EB	7' LT	1
EXSL8	84+85 EB	7' LT	1
		TOTAL	**6**

3

REMOVING PULL BOXES - TRAFFIC SIGNALS

PULL BOX NUMBER	STATION	OFFSET	* 653.0905 EACH
S49-0910 STH 66 & COUNTRY CLUB DR			
EPB1	62+76 CC	55' RT	1
EPB2	61+70 CC	32' RT	1
EPB3	62+98 CC	25' RT	1
EPB4	62+92 CC	3' LT	1
EPB5	63+09 CC	54' LT	1
EPB6	79+32 EB	38' RT	1
EPB7	78+33 EB	29' RT	1
EPB8	77+65 EB	29' RT	1
EPB9	80+61 EB	30' RT	1
EPB10	80+56 EB	17' LT	1
EPB11	80+52 WB	42' LT	1
EPB12	80+75 WB	55' LT	1
EPB13	81+42 WB	55' LT	1
EPB14	81+68 WB	44' LT	1
EPB15	83+00 WB	44' LT	1
EPB16	84+48 WB	44' LT	1
EPB17	81+69 WB	18' RT	1
EPB18	82+11 WB	18' RT	1
EPB19	82+04 EB	53' RT	1
		TOTAL	**19**

* PAY ITEM IS ALSO SUMMARIZED IN "EXISTING CITY STREET LIGHTING EQUIPMENT REMOVAL"

REMOVING PULL BOXES - CITY STREET LIGHTING

PULL BOX NUMBER	STATION	OFFSET	*653.0905 EACH
EXLPBJ100	80+64 WB	8' RT	1
EXLPBJ101	81+68 EB	4' LT	1
EXLPBJ102	82+22 EB	7' LT	1
		TOTAL	**3**

* PAY ITEM IS ALSO SUMMARIZED IN "EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVAL"

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

3

CONDUIT

LOCATION (FROM) ITEM NO.		(TO) ITEM NO.	652.0225 RIDGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 RIDGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0605 SPECIAL 2-INCH LF	652.0615 SPECIAL 3-INCH LF
S49-0910 (STH 66 & COUNTRY CLUB DR)						
CB1	to	PB1	---	42	---	---
PB1	to	PB2	104	---	---	---
PB1	to	PB3	---	38	---	---
PB3	to	SB1	8	---	---	---
PB3	to	SB2	18	---	---	---
PB1	to	PB4	----	120	---	---
PB4	to	SB3	16	---	---	---
PB4	to	PB5	---	---	---	100
PB5	to	PB6	---	---	---	26
PB6	to	SB4	18	---	---	---
PB5	to	PB7	---	72	---	---
PB7	to	PB8	238	---	40	---
PB7	to	PB9	---	---	---	104
PB9	to	SB5	26	---	---	---
PB9	to	PB10	---	34	---	---
PB10	to	SB6	12	---	---	---
PB10	to	PB11	---	---	---	96
PB11	to	SB7	18	---	---	---
PB11	to	PB12	---	52	---	---
PB12	to	SB8	10	---	---	---
PB12	to	PB13	---	---	---	168
PB13	to	PB14	290	---	---	---
PB13	to	PB15	---	28	---	---
PB15	to	SB9	4	---	---	---
PB15	to	SB10	8	---	---	---
PB13	to	PB16	---	---	---	124
PB16	to	SB11	22	---	---	---
PB16	to	PB17	---	48	---	---
PB17	to	SB12	10	---	---	---
PB17	to	SB13	6	---	---	---
PB17	to	PB18	---	---	---	116
PB18	to	SB14	8	---	---	---
PB18	to	CB1	---	36	---	---
		TOTALS	816	470	40	734

CONCRETE CONTROL CABINET BASES

BASE NUMBER	*STATION	*OFFSET	LOCATION	654.0217 TYPE 9 SPECIAL EACH
CB1	81+96EB	66.9' RT	S49-0910 (STH 66 & COUNTRY CLUB DR)	1
			TOTAL	1

*CENTER OF CABINET

LOOP DETECTOR INSTALLATION

LOOP NUMBER	*STATION	*OFFSET	SIZE (FT - FT)	NUMBER OF TURNS	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 **LOOP DETECTOR LEAD IN CABLE LF	655.0800 LOOP DETECTOR WIRE LF
S49-0910 (STH 66 & COUNTRY CLUB DR)							
11	80+34 EB	12' LT	6X20	3	68	236	204
12	80+62 EB	13' LT	6X20	3	68	236	204
21	84+50 WB	6' LT	6X6	4	96	458	384
22	84+50 WB	18' LT	6X6	4	70	458	280
31	62+95 CC	6' RT	6X20	3	64	80	192
32	63+23 CC	5.5' RT	6X20	3	76	80	228
41	80+88 WB	42' LT	6X30	3	104	252	312
42	81+01 WB	41' LT	6X30	3	124	252	372
51	81+80 WB	15' RT	6X20	3	68	104	204
52	81+52 WB	14' RT	6X20	3	68	104	204
61	77+74 EB	6' RT	6X6	4	64	442	256
62	77+74 EB	18' RT	6X6	4	44	442	176
81	61+75 CC	10.5' RT	6X15	4	66	124	264
82	62+93 CC	17' RT	6X20	3	80	60	240
83	63+21 CC	16' RT	6X20	3	68	60	204
84	81+71 EB	37' RT	6X25	3	94	20	282
				TOTALS	1222	3408	4006

* STATION / OFFSET LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
** PAY ITEM IS ALSO SUMMARIZED IN " CABLE TRAFFIC SIGNAL"

PULL BOXES NON-CONDUCTIVE

PULL BOX NUMBER	STATION	OFFSET	653.0164 24x42 INCH EACH
S49-0910 (STH 66 & COUNTRY CLUB DR)			
PB1	62+75 CC	55' RT	1
PB2	61+68 CC	31' RT	1
PB3	63+04 CC	28' RT	1
PB4	62+93 CC	3' LT	1
PB5	63+05 CC	50' LT	1
PB6	80+76 EB	36' RT	1
PB7	80+40 EB	49' RT	1
PB8	77+64 EB	30' RT	1
PB9	80+38 EB	3' LT	1
PB10	80+37 WB	3' RT	1
PB11	80+42 WB	43' LT	1
PB12	80+74 WB	56' LT	1
PB13	81+60 WB	57' LT	1
PB14	84+48 WB	45' LT	1
PB15	81+44 WB	34' LT	1
PB16	81+77 WB	4' RT	1
PB17	81+89 EB	4' LT	1
PB18	81+95 EB	55' RT	1
		TOTAL	18

CONCRETE BASES

SIGNAL BASE NUMBER	STATION	OFFSET	654.0101 TYPE 1 EACH	654.0110 TYPE 10 EACH	654.0120 TYPE 10 SPECIAL EACH
S49-0910 (STH 66 & COUNTRY CLUB DR)					
SB1	81+44 EB	36' RT	---	1	---
SB2	81+53 EB	27' RT	1	---	---
SB3	63+08 CC	3' LT	1	---	---
SB4	80+64 EB	30' RT	---	1	---
SB5	80+66 EB	4' LT	1	---	---
SB6	80+50 WB	4' RT	1	---	---
SB7	80+35 WB	41' LT	---	---	1
SB8	80+70 WB	46' LT	1	---	---
SB9	81+41 WB	33' LT	---	---	1
SB10	81+53 WB	32' LT	1	---	---
SB11	81+53 WB	3' RT	1	---	---
SB12	81+80 EB	4' LT	1	---	---
SB13	81+95 EB	4' LT	1	---	---
SB14	81+88 EB	53' RT	1	---	---
		TOTALS	10	2	2

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

3

ELECTRIC SERVICE METER BREAKER PEDESTAL

LOCATION	CABINET BASE NUMBER	656.0200.04 LS	REMARKS
S49-0910 (STH 66 & COUNTRY CLUB DR)	CB1	1	
	TOTAL	1	

TRAFFIC SIGNAL BASES, POLES, ARMS AND LUMINAIRES

SIGNAL BASE NUMBER	657.0100 PEDESTAL BASES EACH	657.0410 TRAFFIC SIGNAL STANDARDS ALUMINUM 9-FT EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH
S49-0910 (STH 66 & COUNTRY CLUB DR)				
SB2	1	1	--	--
SB3	1	--	--	1
SB5	1	---	---	1
SB6	1	---	---	1
SB8	1	---	---	1
SB10	1	---	1	---
SB11	1	---	---	1
SB12	1	---	---	1
SB13	1	---	1	---
SB14	1	---	1	---
TOTALS	10	1	3	6

MONOTUBE POLES, ARMS, AND LUMINAIRES

SIGNAL BASE NUMBER	657.0350 POLES TYPE 10 EACH	657.0352 POLES TYPE 10 SPECIAL EACH	MONOTUBE ARMS 657.0530 30-FT EACH	MONOTUBE ARMS 657.0536 35-FT SPECIAL EACH	657.0812 LUMINAIRE ARMS STEEL 12-FT EACH	659.1125 LUMINAIRE UTILITY LED C EACH
S49-0910 (STH 66 & COUNTRY CLUB DR)						
SB1	1	---	1	---	1	1
SB4	1	---	1	---	1	1
SB7	---	1	---	1	1	1
SB9	---	1	---	1	1	1
TOTALS	2	2	2	2	4	4

TRAFFIC SIGNAL FACES, AND PEDESTRIAN PUSH BUTTONS

SIGNAL BASE NUMBER	HEAD NUMBER	TRAFFIC SIGNAL FACE 658.0173 3S-12 INCH EACH	TRAFFIC SIGNAL FACE 658.0174 4S-12 INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH	658.0500 PEDESTRIAN PUSH BUTTON EACH	REMARKS
S49-0910 (STH 66 & COUNTRY CLUB DR)						
SB1	4E	1	---	---	---	
	6B	1	---	---	---	
	6C	1	---	---	---	
	6-2	---	---	1	1	INSTALL PUSH BUTTON SIGN R10-3ED, 6"x10"
	6-3	---	---	1	---	
	8A	1	---	---	---	
SB2	8-1	---	---	1	1	INSTALL PUSH BUTTON SIGN R10-3EL, 6"x10"
SB3	3A	---	1	---	---	
	4D	1	---	---	---	
SB4	4B	1	---	---	---	
	4C	1	---	---	---	
	5C	---	1	---	---	
	6A	1	---	---	---	
	6-1	---	---	1	1	INSTAL PUSH BUTTON SIGN R10-3ER, 6"x10"
SB5	5B	---	1	---	---	
	6D	1	---	---	---	
SB6	1A	---	1	---	---	
SB7	2B	1	---	---	---	
	2C	1	---	---	---	
SB8	3C	---	1	---	---	
	4A	1	---	---	---	
SB9	1C	---	1	---	---	
	3B	---	1	---	---	
	8B	1	---	---	---	
	8C	1	---	---	---	
SB10	2A	1	---	---	---	
	8-4	---	---	1	1	INSTAL PUSH BUTTON SIGN R10-3ER, 6"x10"
SB11	1B	---	1	---	---	
	2D	1	---	---	---	
	8-2	---	---	1	1	INSTALL PUSH BUTTON SIGN R10-3ED, 6"x10"
	44046	---	---	1	---	
SB12	5A	---	1	---	---	
	8F	1	---	---	---	
SB13	8E	1	---	---	---	
SB14	8D	1	---	---	---	
	6-4	---	---	1	1	INSTAL PUSH BUTTON SIGN R10-3ER, 6"x10"
	TOTALS	19	9	8	6	

NOTE: BACKPLATES REQUIRED ON ALL TRAFFIC SIGNAL FACES

SALVAGE TRAFFIC SIGNALS

LOCATION	SPV.0105.03 LS	REMARKS
S49-0910 (STH 66 & COUNTRY CLUB DR)	1	
TOTAL	1	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

3

CABLE TRAFFIC SIGNALS

LOCATION (FROM) ITEM NO.		(TO) ITEM NO.	655.0230 5-14 AWG LF	655.0250 9-14 AWG LF	655.0260 12-14 AWG LF	655.0270 15-14 AWG LF	655.0700 *LOOP DETECTOR LEAD-IN CABLE LF
S49-0910 STH 66 & COUNTRY CLUB DR							
CB1	to	SB1	---	---	---	104	---
SB1	to	HEAD 8A	19	---	---	---	---
SB1	to	HEAD 4E	19	---	---	---	---
SB1	to	HEAD 6B	44	---	---	---	---
SB1	to	HEAD 6C	54	---	---	---	---
SB1	to	P HEAD 6-2	14	---	---	---	---
SB1	to	P HEAD 6-3	14	---	---	---	---
SB1	to	PED BUTTON	---	---	---	---	6
CB1	to	SB2	116	---	---	---	---
SB2	to	P HEAD 8-1	14	---	---	---	---
SB2	to	PED BUTTON	---	---	---	---	6
CB1	to	SB3	---	132	---	---	---
SB3	to	HEAD 4D	22	---	---	---	---
SB3	to	HEAD 3A	22	---	---	---	---
CB1	to	SB4	---	---	---	234	---
SB4	to	HEAD 5C	22	---	---	---	---
SB4	to	HEAD 6A	22	---	---	---	---
SB4	to	HEAD 4B	42	---	---	---	---
SB4	to	HEAD 4C	54	---	---	---	---
SB4	to	P HEAD 6-1	14	---	---	---	---
SB4	to	PED BUTTON	---	---	---	---	6
CB1	to	SB5	---	326	---	---	---
SB5	to	HEAD 6D	22	---	---	---	---
SB5	to	HEAD 5B	22	---	---	---	---
CB1	to	SB6	346	---	---	---	---
SB6	to	HEAD 1A	22	---	---	---	---
CB1	to	SB7	416	---	---	---	---
SB7	to	HEAD 2B	46	---	---	---	---
SB7	to	HEAD 2C	56	---	---	---	---
CB1	to	SB8	---	338	---	---	---
SB8	to	HEAD 4A	22	---	---	---	---
SB8	to	HEAD 3C	22	---	---	---	---
CB1	to	SB9	---	---	272	---	---
SB9	to	HEAD 8B	19	---	---	---	---
SB9	to	HEAD 8C	46	---	---	---	---
SB9	to	HEAD 3B	58	---	---	---	---
SB9	to	HEAD 1C	22	---	---	---	---
CB1	to	SB10	---	278	---	---	---
SB10	to	HEAD 2A	20	---	---	---	---
SB10	to	P HEAD 8-4	14	---	---	---	---
SB10	to	PED BUTTON	---	---	---	---	6
		SUBTOTALS	**1645**	**1074**	**272**	**338**	**24**

3

CABLE TRAFFIC SIGNALS

LOCATION (FROM) ITEM NO.		(TO) ITEM NO.	655.0230 5-14 AWG LF	655.0250 9-14 AWG LF	655.0260 12-14 AWG LF	655.0270 15-14 AWG LF	655.0700 *LOOP DETECTOR LEAD-IN CABLE LF
CB1	to	SB11	---	---	170	---	---
SB11	to	HEAD 2D	22	---	---	---	---
SB11	to	HEAD 1B	22	---	---	---	---
SB11	to	P HEAD 8-2	14	---	---	---	---
SB11	to	P HEAD 8-3	14	---	---	---	---
SB11	to	PED BUTTON	---	---	---	---	6
CB1	to	SB12	---	118	---	---	---
SB12	to	HEAD 8F	22	---	---	---	---
SB12	to	HEAD 5A	22	---	---	---	---
CB1	to	SB13	112	---	---	---	---
SB13	to	HEAD 8E	20	---	---	---	---
CB1	to	SB14	---	42	---	---	---
SB14	to	HEAD 8D	20	---	---	---	---
SB14	to	P HEAD 6-4	14	---	---	---	---
SB14	to	PED BUTTON	---		---	---	6
		SUBTOTALS	**282**	**160**	**170**	**0**	**12**
		TOTALS	**1927**	**1234**	**442**	**338**	**36**

* PAY ITEM IS ALSO SUMMARIZED IN "LOOP DETECTOR INSTALLATION"

ELECTRICAL WIRE LIGHTING - TRAFFIC SIGNALS

LOCATION (FROM) ITEM NO.		(TO) ITEM NO.	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF
S49-0910 STH 66 & COUNTRY CLUB DR				
CB1	to	SB1	105	140
CB1	to	SB4	235	140
CB1	to	SB7	415	140
CB1	to	SB9	275	140
		TOTALS	**1030**	**560**

EQUIPMENT GROUNDING AND GROUNDED CONDUCTORS

LOCATION (FROM) ITEM NO.		(TO) ITEM NO.	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG (GREEN) LF
S49-0910 STH 66 & COUNTRY CLUB DR			
CB1	to	SB1	104
SB1	to	SB2	56
SB2	to	SB3	192
SB3	to	SB4	158
SB4	to	SB5	220
SB5	to	SB6	92
SB6	to	SB7	114
SB7	to	SB8	90
SB8	to	SB9	178
SB9	to	SB10	34
SB10	to	SB11	168
SB11	to	SB13	92
SB12	to	SB13	34
SB13	to	SB14	106
SB14	to	CB1	42
		TOTAL	**1680**

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE

3

PULL BOXES NON-CONDUCTIVE - CITY STREET LIGHTING

PULL BOX NUMBER	STATION	OFFSET	* 653.0164 24x42 INCH EACH
LPBJ1	80+18 WB	3' RT	1
LPBJ2	80+19 WB	42' LT	1
LPBJ3	80+64 WB	60' LT	1
LPBJ4	81+59 WB	61' LT	1
LPBJ5	82+21 WB	43' LT	1
LPBJ6	82+35 EB	40' RT	1
		TOTAL	6

* PAY ITEM IS ALSO SUMMARIZED IN "TRAFFIC SIGNAL PULL BOX"

INSTALLING CITY STREET LIGHT ASSEMBLIES

LIGHTING BASE NUMBER	STATION	OFFSET	654.0107 CONCRETE BASES TYPE 7 EACH	SPV.0060.09 INSTALL 30-FT LIGHTING UNIT TWIN 6-FT ARMS W/ TRANSFORMER BASE EACH	SPV.0060.10 INSTALL 34-FT LIGHTING UNIT SINGLE 10-FT ARM W/ TRANSFORMER BASE EACH	SPV.0060.11 INSTALL SALVAGED LUMINAIRE EACH	*655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	REMARKS
J-SL100	78+49EB	8.73' LT	1	1	---	2	284	SALVAGED SHOEBOX 150W HPS
J-SL101	79+54EB	17.21' LT	1	1	---	2	284	SALVAGED SHOEBOX 150W HPS
J-SL102	82+69WB	39.66' LT	1	---	1	1	190	SALVAGED LED B
J-SL103	82+69EB	41.50' RT	1	---	1	1	190	SALVAGED LED B
J-SL104	84+14WB	37.50' LT	1	---	1	1	190	SALVAGED LED B
J-SL105	84+14EB	41.50' RT	1	---	1	1	190	SALVAGED LED B
J-SL106	85+59WB	34.90' LT	1	---	1	1	190	SALVAGED LED B
J-SL107	85+59EB	41.50' RT	1	---	1	1	190	SALVAGED LED B
		TOTALS	8	2	6	10	1708	

* PAY ITEM IS ALSO SUMMARIZED IN "TRAFFIC SIGNAL - ELECTRICAL WIRE LIGHTING"

3

REMOVE, SALVAGE & STORE-CITY STREET LIGHTING

STATION	OFFSET	SPV.0060.06 REMOVE SALVAGE AND STORE STREET LIGHTING POLES EACH	SPV.0060.07 REMOVE SALVAGE AND STORE STREET LIGHTING ARMS EACH	SPV.0060.08 REMOVE SALVAGE AND STORE STREET LIGHTING LUMINAIRES EACH	REMARKS
78+49 EB	6' LT	1	2	2	30' BRONZE / TWIN 6' / 2-150W HPS
79+54 EB	13' LT	1	2	2	30' BRONZE / TWIN 6' / 2-150W HPS
80+45 EB	15' LT	1	2	2	30' BRONZE / TWIN 6' / 2-250W HPS
82+02 EB	8' LT	1	2	2	34' ALUMINUM / TWIN 10' / 2-LED B
83+44 EB	7' LT	1	2	2	34' ALUMINUM / TWIN 10' / 2-LED B
84+85 EB	7' LT	1	2	2	34' ALUMINUM / TWIN 10' / 2-LED B
	TOTALS	6	12	12	

TRANSPORT CITY FURNISHED LIGHTING MATERIALS

LOCATION	SPV.0105.06 LS	REMARKS
USH 10/STH 66	1	
TOTAL	1	

LIGHTING CONTROL CABINET

LOCATION	CABINET BASE NUMBER	SPV.0060.12 LIGHTING CONTROL MODIFICATIONS CABINET LC-J EACH
82+20EB RT	LC-J	1
TOTALS		1

CONDUIT AND ELECTRICAL WIRE - CITY STREET LIGHTING

LOCATION (FROM) ITEM NO.		LOCATION (TO) ITEM NO.	*652.0225 CONDUIT RIDGID NONMETALLIC SCHEDULE 40 2-INCH LF	*652.0235 CONDUIT RIDGID NONMETALLIC SCHEDULE 40 3-INCH LF	*652.0615 CONDUIT SPECIAL 3-INCH LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG LF
J-EXSL2	to	J-SL100	106	---	---	327	218	109
J-SL100	to	J-SL101	106	---	---	327	218	109
J-SL101	to	LPBJ1	62	---	---	216	144	72
LPBJ1	to	LPBJ2	---	---	46	186	124	62
LPBJ2	to	LPBJ3	46	---	---	186	124	62
LPBJ3	to	LPBJ4	----	---	96	336	224	112
LPBJ4	to	LPBJ5	62	---	---	234	156	78
LPBJ5	to	LPBJ6	---	---	118	402	804	536
LPBJ6	to	LC-J	---	20	---	99	198	132
LPBJ5	to	J-SL102	50	---	---	---	238	179
J-SL102	to	J-SL104	146	---	---	---	596	447
J-SL104	to	J-SL106	146	---	---	---	596	447
LPBJ6	to	J-SL103	---	32	---	---	332	249
J-SL103	to	J-SL105	144	---	---	---	588	441
J-SL105	to	J-SL107	144	---	---	---	294	441
		TOTALS	1012	52	260	2313	4854	3476

* PAY ITEM IS ALSO SUMMARIZED IN "TRAFFIC SIGNAL CONDUIT"

BEGIN CONSTRUCTION
PROJECT 6290-09-71
STA 77+44EB

CONCRETE SIDEWALK
4-INCH

CONCRETE PAVEMENT REPAIR
AT LOOP DETECTOR INSTALLATION

PT: 72+77.09WB

PC: 74+74.91WB

PC: 77+92.78EB

R/W

STH 66 WB

STH 66 EB

72+00WB
73+00WB
74+00WB
75+00WB
76+00WB
77+00WB
78+00WB

72+00EB
73+00EB
74+00EB
75+00EB
76+00EB
77+00EB
78+00EB

5

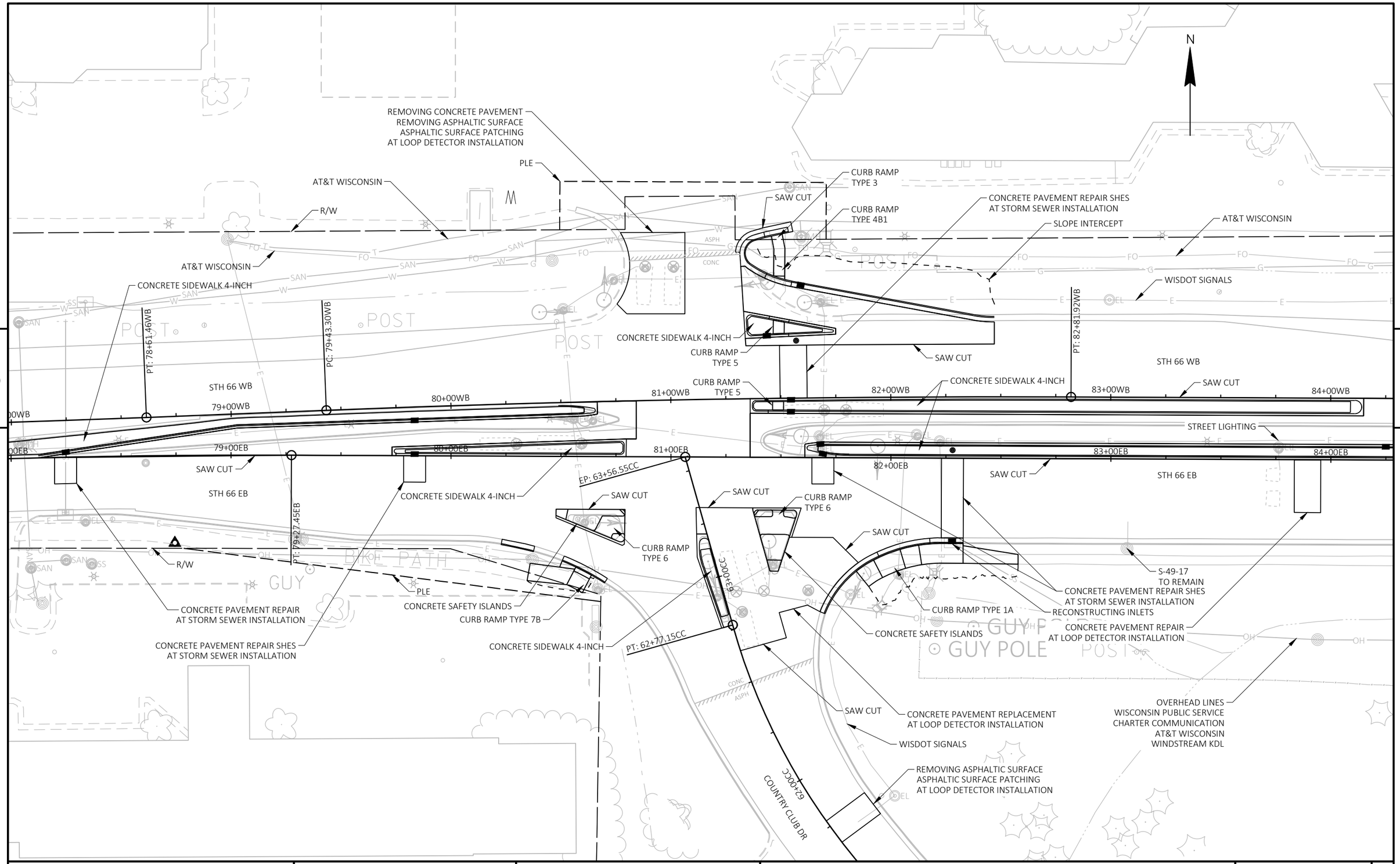
5

PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	PLAN	SHEET 399	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 01

PLOT DATE : 6/16/2021 1:15 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 6290-09-71	HWY: STH 66	COUNTY: PORTAGE	PLAN	SHEET 400	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 02

PLOT DATE : 6/16/2021 1:16 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

END CONSTRUCTION
PROJECT 6290-09-71
STA 85+75EB

BEGIN CONSTRUCTION
PROJECT 1166-06-75
STA 85+75EB
MATCH EXISITNG
SAW CUT REQD

101 CITY OF STEVENS POINT - WATER
84.295(4m)(a)(a)

AT&T WISCONSIN

ASPHALTIC FLUME
SEE CONSTRUCTION DETAILS

R/W

ROUT AND SEAL

SLOPE INTERCEPT

CONCRETE PAVEMENT REPAIR
AT LOOP DETECTOR INSTALLATION

CONCRETE SIDEWALK 6-INCH
SEE MEDIAN SIDEWALK DETAIL

FENCE CHAIN LINK 4-FOOT

CLEARING AND GRUBBING

WISDOT SIGNALS

PC: 86+00.14WB

PT: 86+76.35WB

PC: 88+29.15WB

PT: 89+11.93WB

STH 66 WB

B-49-24

85+00WB

86+00WB

87+00WB

88+00WB

89+00WB

90+00WB

CONCRETE SIDEWALK 4-INCH

CONCRETE BARRIER TYPE S42
SEE CONSTRUCTION DETAILS

CONCRETE PAVEMENT APPROACH SLAB

CURB RAMP TYPE 2

CURB RAMP TYPE 3/6

CONCRETE SIDEWALK 5-INCH

CURB RAMP TYPE 7

EP: 295+11.15ZC

BP: 270+19.10ZD

85+00EB

86+00EB

87+00EB

88+00EB

89+00EB

90+00EB

STH 66 EB

USH 10 EB/STH 66 EB

PC: 87+98.98EB

PT: 86+78.81EB

295+00ZC

CONCRETE
SIDEWALK 4-INCH

PC: 88+34.42EB

PT: 89+06.68EB

CONCRETE SIDEWALK 5-INCH

CONCRETE SIDEWALK 4-INCH

SLOPE INTERCEPT

CURB RAMP TYPE 6

CURB RAMP TYPE 7B

CONCRETE SIDEWALK 4-INCH

R110'

294+00ZC

271+00ZD

R60'

WISDOT SIGNALS

MGS GUARDRAIL
SEE MGS GUARDRAIL DETAIL

101 REMOVE VALVE BOX - BY OTHERS

AT&T WISCONSIN

SLOPE INTERCEPT

CONCRETE SIDEWALK 4-INCH

272+00ZD

293+00ZC

CONC
ASPH

OVERHEAD LINES
WISCONSIN PUBLIC SERVICE
AT&T WISCONSIN
CHARTER COMMUNICATIONS
WINDSTREAM KDL

N

5

5

PROJECT NO: 1166-06-75/6290-09-71	HWY: USH 10/STH 66	COUNTY: PORTAGE	PLAN	SHEET 401	E

EXISTING 50-FOOT CAMERA SYSTEM
CCTV-49-0013
TO REMAIN

SLOPE INTERECEPT

CONCRETE PAVEMENT
APPROACH SLAB

MGS GUARDRAIL
SEE MGS GUARDRAIL DETAIL

WISDOT
ITS

R100'

309+00ZB

PC: 93+99.33WB

PT: 94+89.22WB

R100'

283+00ZA

PC: 95+84.48WB

REMOVING SMALL PIPE CULVERTS
2-36 INCH CPRC

CLEAR AND GRUB TREE (TYP)

PC: 282+41.82ZG

283+00ZG

PT: 96+83.22WB

282+00ZG

PROJECT LIMIT LINE

STH 66 WB

USH 10 WB

92+00WB

93+00WB

94+00WB

95+00WB

96+00WB

97+00WB

98+00WB

CONCRETE TRUCK APRON 12-INCH
COLORING CONCRETE WISDOT RED

CONCRETE BARRIER TYPE S42
SEE CONSTRUCTION DETAILS

CONCRETE SIDEWALK 4-INCH

CURB RAMP TYPE 7B

STREET LIGHTING

CONCRETE SIDEWALK 6-INCH
SEE MEDIAN SIDEWALK DETAIL

EP: 310+04.65ZB

310+00ZB

BP: 282+42.75ZA

92+00EB

93+00EB

94+00EB

95+00EB

96+00EB

97+00EB

98+00EB

USH 10 EB/STH 66 EB

USH 10 EB

B-49-24

EP: 287+16.94ZZ

287+00ZZ

PC: 93+94.21EB

PT: 94+94.28EB

PC: 95+88.16EB

PT: 96+79.38EB

CURB RAMP TYPE 7B

CONCRETE SIDEWALK 5-INCH

CURB RAMP TYPE 4B1

R50'

R60'

CURB RAMP TYPE 4B1

CONCRETE SIDEWALK 5-INCH

CONCRETE PAVEMENT APPROACH SLAB

SLOPE INTERCEPT

SLOPE INTERCEPT

OVERHEAD LINES
WISCONSIN PUBLIC SERVICE
CHARTER COMMUNICATIONS
WINDSTREAM KDL

EXISTING ELECTRICAL METER FOR
50-FOOT CAMERA SYSTEM
CCTV-49-0013

CONCRETE SIDEWALK 4-INCH

286+00ZZ

BEGIN CONSTRUCTION
PROJECT 6290-09-70
STA 97+00EB & WB

AT&T WISCONSIN

END CONSTRUCTION
PROJECT 1166-06-75
STA 97+00EB & WB

RW

287+00ZG

PT: 285+07.44ZZ

285+00ZZ

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10/STH 66	COUNTY: PORTAGE	PLAN	SHEET 402	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 04

PLOT DATE : 6/16/2021 1:16 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

ULTIMATE R/W
NO PLAT RECORDED
CONCRETE SIDEWALK 4-INCH
ASPHALTIC FLUME
SEE CONSTRUCTION DETAILS
20'
CLEAR AND GRUB TREE (TYP)
R/W
STA 98+25EB
S-49-29
SIGN BRIDGE TRUSS CANTILEVER 2-CHORD TYPE IV
SLOPE INTERCEPT
BP: 281+42.84EB
R50'
END PAVEMENT REPLACEMENT
STA 99+77WB
MATCH EXISTING
SAW CUT REQD
USH 10 WB
CONCRETE SIDEWALK 4-INCH
98+00WB
99+00WB
100+00WB
98+00EB
99+00EB
PI: 22+19.43MB
100+00EB
USH 10 EB
CONCRETE SIDEWALK 4-INCH
CONCRETE SIDEWALK 5-INCH
END PAVEMENT REPLACMENT
STA 99+00EB
MATCH EXISTING
SAW CUT REQD
CONCRETE PAVEMENT REPAIR
AT STORM SEWER INSTALLATION
CITY OF STEVENS POINT
SANITARY SEWER FORCE MAIN
ADJUSTING INLET COVER
CURB RAMP TYPE 7B
CONCRETE SAFETY ISLANDS
CURB RAMP TYPE 6
CONCRETE PAVEMENT REPAIR SHES
24+00MB
23+00MB
22+00MB
21+00MB
MAPLE BLUFF RD
OLD HWY 18
CONCRETE PAVEMENT REPLACEMENT
AT LOOP DETECTOR INSTALLATION
CURB RAMP TYPE 3
101 RELOCATE HYDRANT - BY OTHERS
BEGIN CONSTRUCTION
RT TURN LANE
STA 100+14WB
MATCH EXISTING
SAW CUT REQD
CONCRETE SIDEWALK 4-INCH
CURB RAMP TYPE 7A
R70'
CURB RAMP TYPE 5
CONCRETE PAVEMENT REPAIR
SLOPE INTERCEPT
R/W
WISDOT SIGNALS
SAW CUT
CONCRETE SIDEWALK 4-INCH
CURB RAMP TYPE 5
101+00WB
101+00EB
CONCRETE SIDEWALK 4-INCH
PC: 101+05.72EB
CURB RAMP TYPE 4B1
STREET LIGHTING
BEGIN CONSTRUCTION
LT TURN LANE
STA 100+26EB & WB
MATCH EXISTING
SAW CUT REQD
CONCRETE SAFETY ISLANDS
CURB RAMP TYPE 6
CONCRETE PAVEMENT REPLACEMENT
AT LOOP DETECTOR INSTALLATION
CONCRETE PAVEMENT REPAIR SHES
AT LOOP DETECTOR INSTALLATION
101 CITY OF STEVENS POINT - WATER
84.295(4m)(a)(a)
N
CONCRETE PAVEMENT REPAIR SHES
AT STORM SEWER INSTALLATION
END CONSTRUCTION
RT TURN LANE
STA 103+57WB
MATCH EXISTING
SAW CUT REQD
CONCRETE PAVEMENT REPLACEMENT
AT LOOP DETECTOR INSTALLATION
CONCRETE PAVEMENT REPLACEMENT
AT STORM SEWER INSTALLATION
PI: 103+10.82WB
PT: 103+98.26WB
USH 10 WB
SAW CUT
102+00WB
103+00WB
104+00WB
102+00EB
103+00EB
104+00EB
SAW CUT
USH 10 EB
CONCRETE PAVEMENT
REPAIR
PT: 104+10.92EB
AT&T WISCONSIN
OVERHEAD LINES
WISCONSIN PUBLIC SERVICE
CHARTER COMMUNICATIONS
WINDSTREAM KDL
REMOVING ASPHALTIC SURFACE
ASPHALTIC SURFACE
END CONSTRUCTION
LT TURN LANE
STA 103+64WB & EB
MATCH EXISTING
SAW CUT REQD
AT&T WISCONSIN
5
5

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PLAN	SHEET 403	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 05
PLOT DATE : 6/16/2021 1:17 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

N

BEGIN CONSTRUCTION
AUXILIARY LANE EXTENSION
STA 106+64EB
MATCH EXISTING
SAW CUT REQD

RECONSTRUCT MANHOLE
SEE CONSTRUCTION DETAILS

CONCRETE DRIVEWAY 6-INCH
ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
SEE CONSTRUCTION DETAILS

SLOPE INTERCEPT

CLEAR AND GRUB
TREE (TYP)

RW

SAW CUT

AT&T WISCONSIN

STA 109+41EB
S-49-30
SIGN BRIDGE TRUSS
CANTILEVER 2-CHORD
TYPE IV

PT: 103+98.26WB

EP: 107+74.26WB

USH 10 WB

SAW CUT

104+00WB 105+00WB 106+00WB 107+00WB

104+00EB 105+00EB 106+00EB 107+00EB 108+00EB 109+00EB 110+00EB

USH 10 EB

PT: 104+10.92EB

PC: 105+55.27EB

PT: 107+74.26EB

OVERHEAD LINES
WISCONSIN PUBLIC SERVICE
CHARTER COMMUNICATIONS
WINDSTREAM KDL

CONCRETE PAVEMENT REPLACEMENT
AT STORM SEWER INSTALLATION

AT&T WISCONSIN

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PLAN	SHEET 404	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 06

PLOT DATE : 6/16/2021 1:17 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

END CONSTRUCTION
PROJECT 6290-09-70
STA 112+15EB
MATCH EXISTING
SAW CUT REQD

CONCRETE DRIVEWAY 6-INCH
ASPHALTIC SURFACE FOR DRIVEWAYS AND FIELD ENTRANCES
SEE CONSTRUCTION DETAILS

SAW CUT

AT&T WISCONSIN

CLEAR AND GRUB TREE

SLOPE INTERCEPT

SAW CUT

R/W

AT&T WISCONSIN

USH 10 WB

USH 10 EB

R/W

AT&T WISCONSIN

OVERHEAD LINES
WISCONSIN PUBLIC SERVICE
CHARTER COMMUNICATIONS
WINDSTREAM KDL

CONCRETE PAVEMENT REPAIR
AT STORM SEWER INSTALLATION

GUY POLE

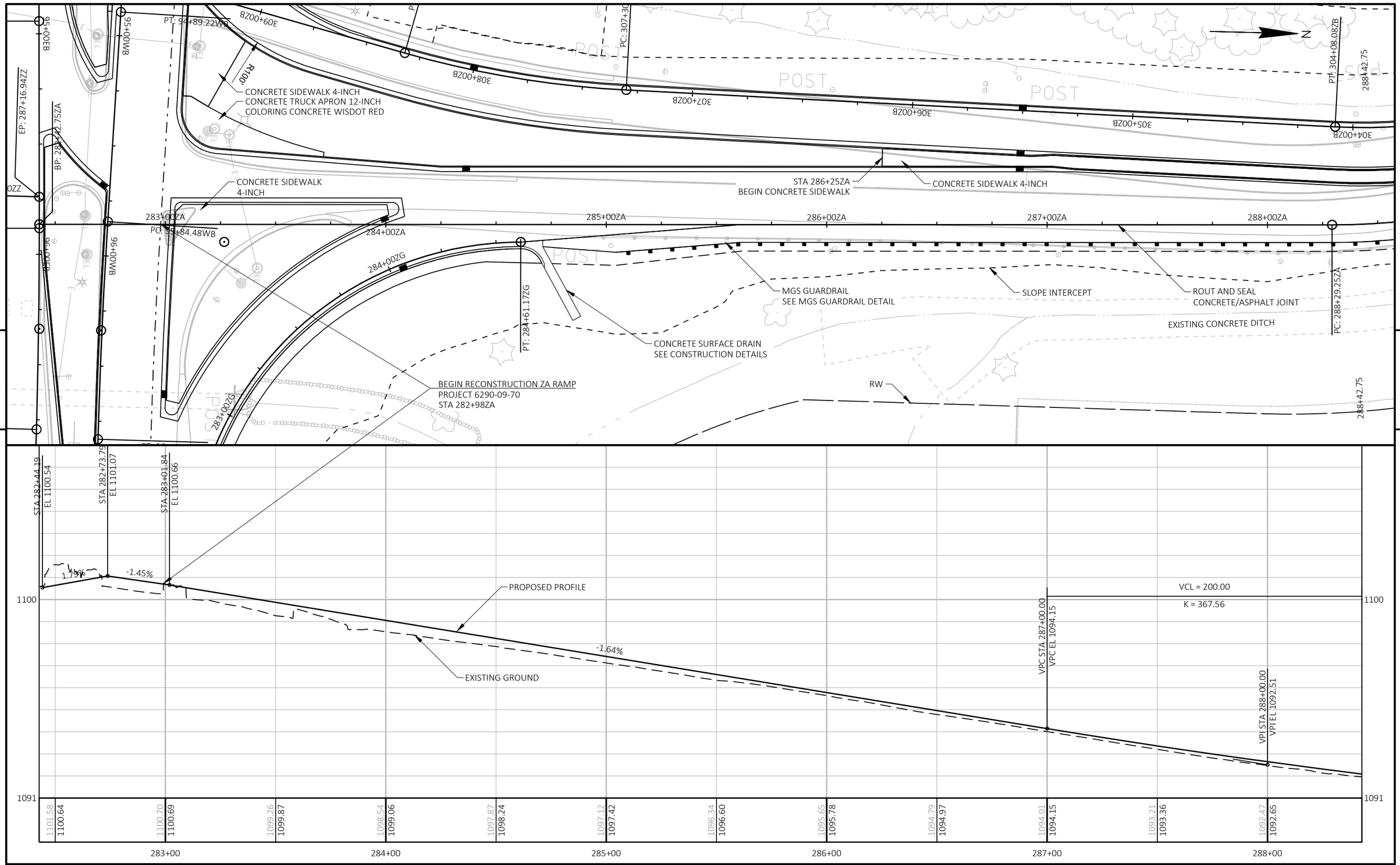
110+00EB 111+00EB 112+00EB 113+00EB 114+00EB 115+00EB 116+00EB

5 5

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PLAN	SHEET 405	E

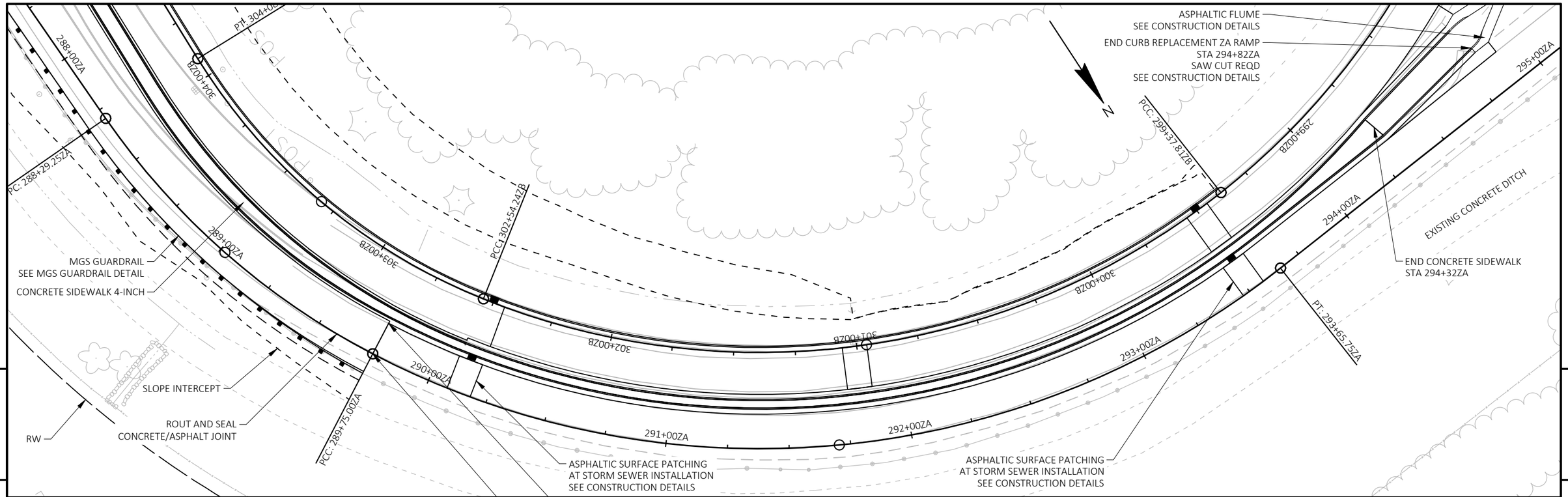
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 07

PLOT DATE : 6/16/2021 1:17 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

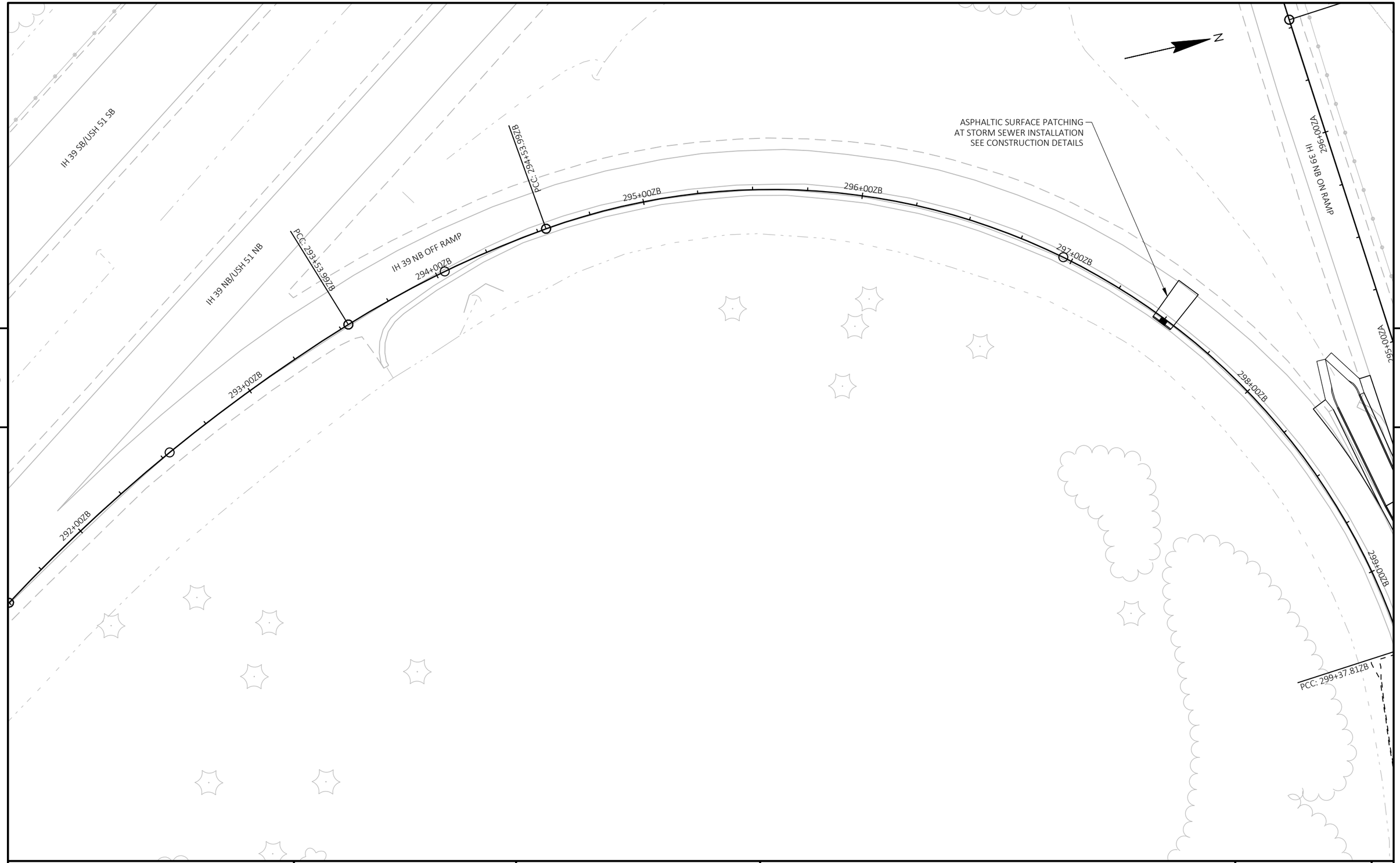


PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PLAN AND PROFILE: ZA - IH 39 NB ON RAMP	SHEET 406	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 08
PLOT DATE : 6/16/2021 1:18 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PLAN AND PROFILE: ZA - IH 39 NB ON RAMP	SHEET 407	E



5

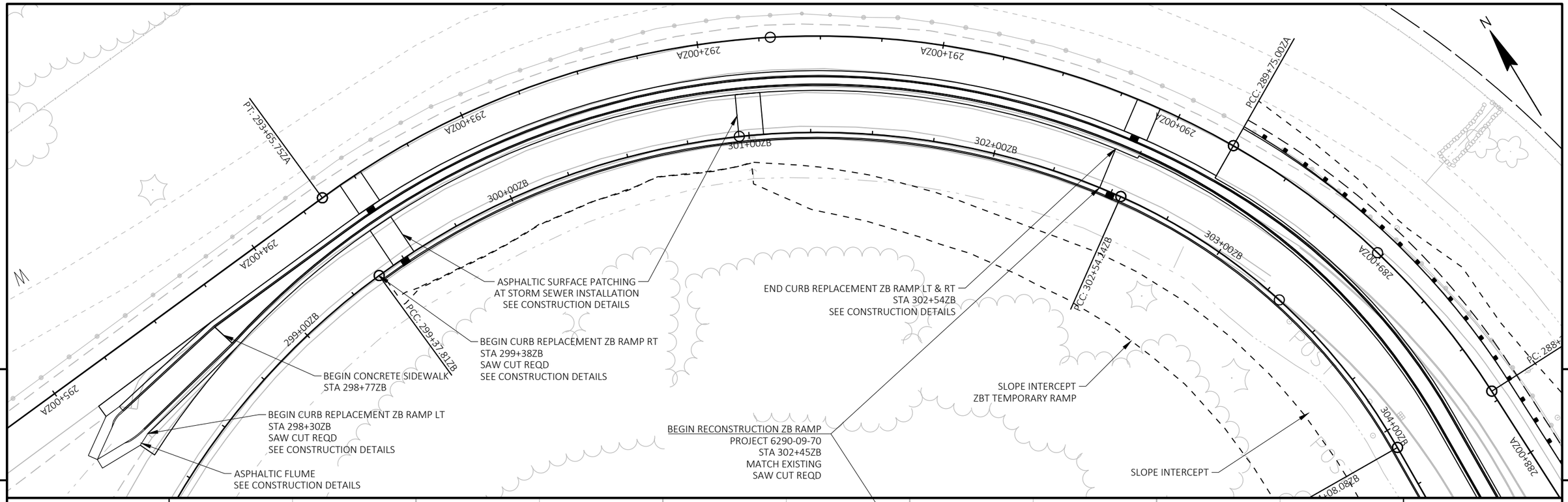
5

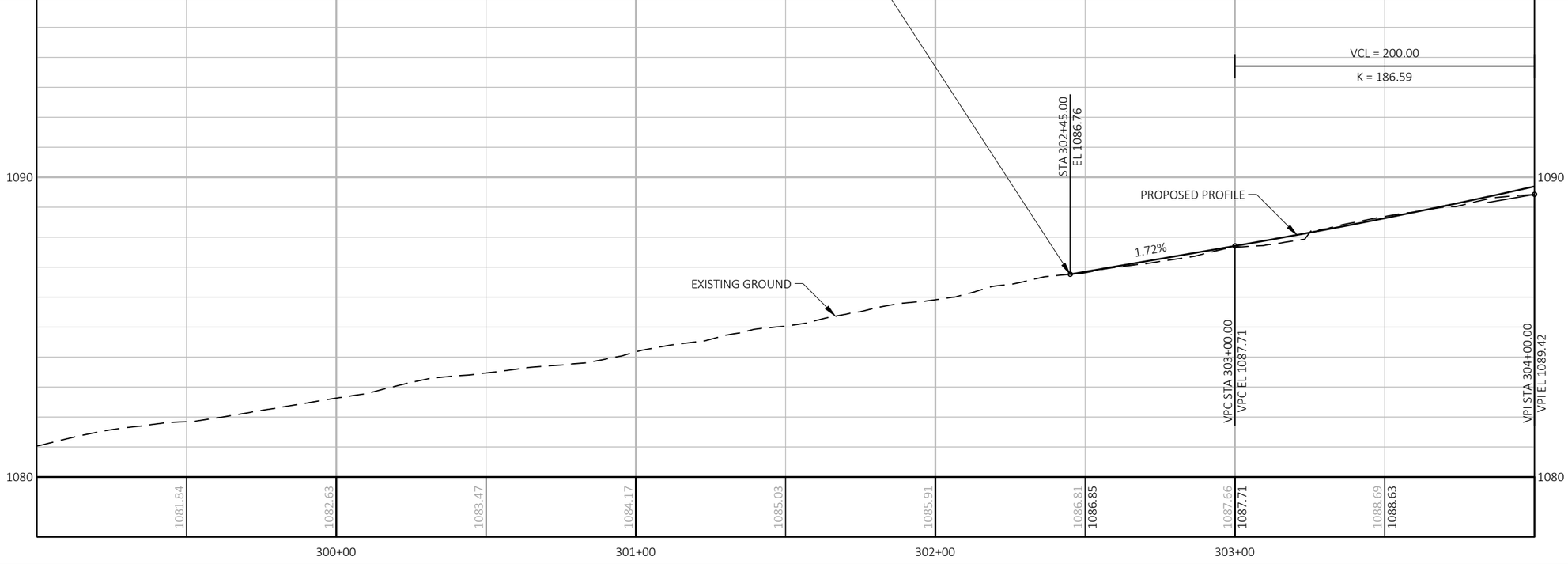
PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PLAN: ZB - IH 39 NB OFF RAMP TO STH 66 WB	SHEET 408	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 10

PLOT DATE : 6/16/2021 1:19 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44





PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PLAN AND PROFILE: ZB - IH 39 NB OFF RAMP TO STH 66 WB	SHEET 409	E

IH 39 NB ON RAMP

IH 39 NB OFF RAMP TO STH 66 WB

PC: 288+29.25ZA

288+00ZA

287+00ZA

286+00ZA

285+00ZA

284+00ZA

284+00ZG

PT: 2

PC: 95+84.48WB

283+00ZA

96+00WB

96+00EB

PC

287+00ZZ

BP: 282+47.75ZA

EP: 287+16.94ZZ

6290-09-70 PROJECT LIMITS

CONCRETE SIDEWALK 4-INCH

R100'

304+00ZB

305+00ZB

306+00ZB

307+00ZB

308+00ZB

309+00ZB

310+00ZB

END CONCRETE SIDEWALK 4-INCH
STA 306+12ZB

PT: 304+08.08ZB

SLOPE INTERCEPT

PC: 307+30.09ZB

PT: 308+32.19ZB

PT: 94+89.22WB

95+00WB

95+00EB

CLEAR AND GRUB TREE (TYP)

SLOPE INTERCEPT
ZBT TEMPORARY RAMP

308+50.00

END RECONSTRUCTION ZB RAMP
PROJECT 6290-09-70
STA 309+40ZB

EP: 310+04.65ZB

5

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VPI STA 304+00.00
VPI EL 1089.42

VPC STA 305+00.00
VPC EL 1092.21

VPI STA 306+00.00
VPI EL 1095.00

VPT STA 307+00.00
VPT EL 1096.82

VPT STA 305+00.00
VPT EL 1092.21

VCL = 200.00
K = 186.59

VCL = 200.00
K = 207.15

PROPOSED PROFILE

EXISTING GROUND

1.82%

2.03%

STA 309+36.36
EL 1101.13

STA 309+65.06
EL 1101.71

1100
1090
1089

1090.04 1090.88 1091.56 1092.21 1093.02 1093.55 1094.36 1094.76 1095.37 1095.85 1096.35 1096.82 1097.19 1097.73 1098.14 1098.65 1098.85 1099.56 1099.85 1100.47 1100.66 1101.41 1100.92

305+00 306+00 307+00 308+00 309+00 310+00

PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PLAN AND PROFILE: ZB - IH 39 NB OFF RAMP TO STH 66 WB	SHEET 410	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 12

PLOT DATE : 6/16/2021 1:20 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

OVERHEAD LINES
WISCONSIN PUBLIC SERVICE
AT&T WISCONSIN
CHARTER COMMUNICATIONS
WINDSTREAM KDL

AT&T WISCONSIN

ASPHALTIC FLUME
SEE CONSTRUCTION DETAILS

SLOPE INTERCEPT

R110'

PT: 86+76.31EB

PT: 86+76.35WB

87+00EB

87+00WB

88+00EB

88+00WB

EP: 295+11.15ZC

291+00ZC | 292+00ZC | 293+00ZC | 294+00ZC | 295+00ZC

CONC
ASPH

CONCRETE SIDEWALK 4-INCH

274+00ZD | 273+00ZD | 272+00ZD | 271+00ZD

PI: 273+77.39ZD

BEGIN RECONSTRUCTION ZC RAMP
PROJECT 1166-06-75
STA 293+58ZC
MATCH EXISTING
SAW CUT REQD

END RECONSTRUCTION ZC RAMP
PROJECT 1166-06-75
STA 294+83ZC

N

5

5

STA 293+58.00
EL 1096.66

STA 294+83.13
EL 1098.70

STA 295+11.15
EL 1099.25

1.63%

1.97%

1100

1090

1094.45 | 1094.88 | 1095.28 | 1095.82 | 1096.53 | 1097.38 | 1097.35 | 1098.13 | 1098.16 | 1098.83 | 1099.03

292+00 | 293+00 | 294+00 | 295+00 | 296+00 | 297+00

PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	PLAN AND PROFILE: ZC RAMP IH 39 SB ON RAMP	SHEET 411	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 13

PLOT DATE : 6/16/2021 1:21 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

OVERHEAD LINES
WISCONSIN PUBLIC SERVICE
CHARTER COMMUNICATIONS
WINDSTREAM KDL

AT&T WISCONSIN

CONCRETE PAVEMENT REPAIR
AT LOOP DETECTOR INSTALLATION

WISDOT SIGNALS
AND LIGHTING

N

PC: 88+34.42ZD
R80'
BP: 270+19.10ZD
PC: 88+29.15WB
88+00WB
88+00EB
271+00ZD
272+00ZD
273+00ZD
PI: 273+77.39ZD
274+00ZD

CONCRETE SIDEWALK 4-INCH

EP: 295+11.15ZD
292+00ZC
293+00ZC
294+00ZC
295+00ZC

BEGIN RECONSTRUCTION ZD RAMP
PROJECT 1166-06-75
STA 270+47ZD

END RECONSTRUCTION ZD RAMP
PROJECT 1166-06-75
STA 271+68ZD
MATCH EXISTING
SAW CUT REQD

STA 270+19.10
EL 1099.70

STA 270+47.17
EL 1099.13

STA 271+03.19
EL 1097.98

STA 271+68.00
EL 1097.08

-2.03%
-2.06%
-1.38%

1100
1091

1098.86 1099.07 1097.79 1098.04 1097.09 1097.33 1096.41 1095.63 1094.85 1094.28 1093.60

269+00 270+00 271+00 272+00 273+00 274+00

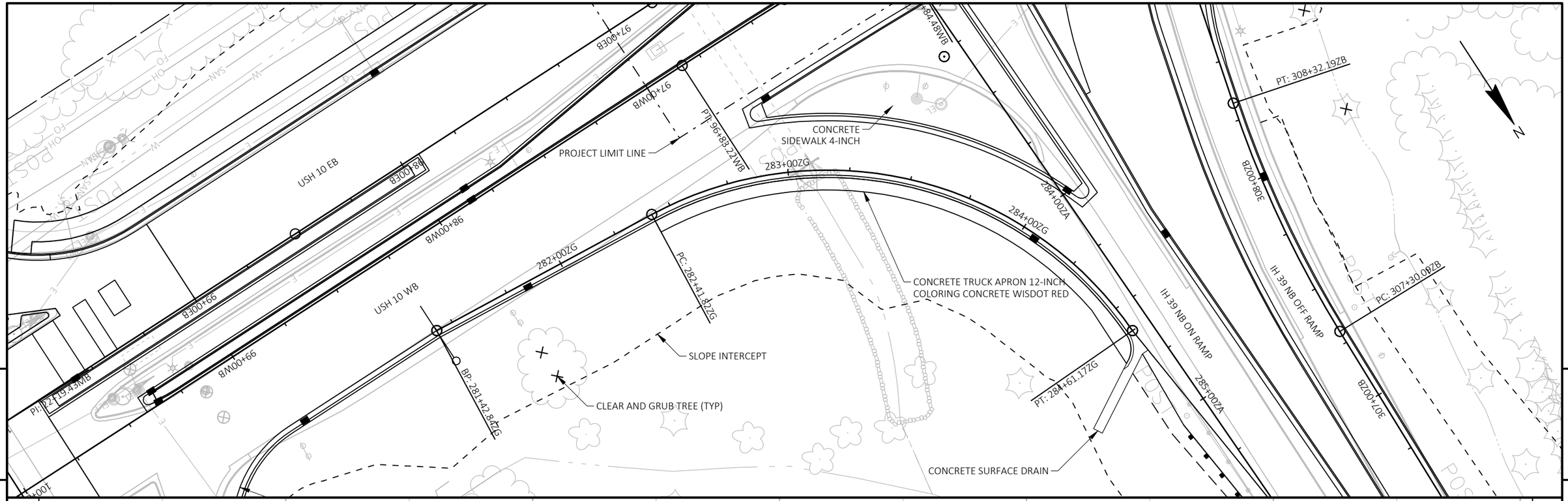
5 5

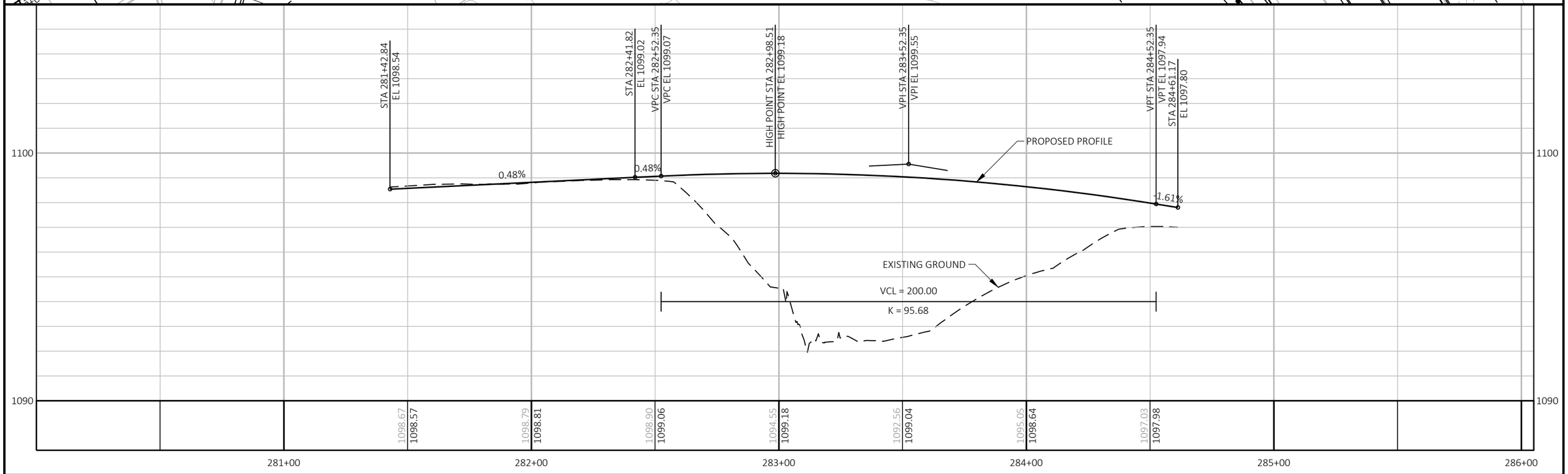
PROJECT NO: 1166-06-75	HWY: IH 39	COUNTY: PORTAGE	PLAN AND PROFILE: ZD RAMP IH 39 SB OFF RAMP	SHEET 412	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 14

PLOT DATE : 6/16/2021 1:21 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PLAN AND PROFILE: ZG - USH 10 WB TO IH 39 NB	SHEET 413	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 15
PLOT DATE : 6/16/2021 1:22 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

IH 39 SB/USH 51 SB

IH 39 NB/USH 51 NB

IH 39 NB OFF RAMP

281+00ZZ

282+00ZZ

283+00ZZ

284+00ZZ

285+00ZZ

286+00ZZ

287+00ZZ

PT: 285+07.44ZZ

STA 286+44ZZ
REMOVE SMALL PIPE CULVERT
24" RCPC

CLEAR AND GRUB TREE

CONCRETE PAVEMENT REPAIR
AT LOOP DETECTOR INSTALLATION

BEGIN CONSTRUCTION ZZ RAMP
PROJECT 1166-06-75
STA 285+26ZZ

ASPHALTIC FLUME
SEE CONSTRUCTION DETAILS

BEGIN PAVEMENT REPLACEMENT
STA 286+25ZZ
MATCH EXISTING
SAW CUT REQD

STA 286+38ZZ
CPRC CLASS IV 30-INCH
RHF

PT: 94+94.28EB

95+00EB

EP: 287+16.94ZZ

BP: 287+42.75ZA

R50'

R60'

PC: 95+88.16EB

95+00EB

USH 10 EB

N

STA 286+25.00
EL 1098.82

STA 286+88.92
EL 1100.50

STA 287+16.94
EL 1101.05

2.63%

1.98%

1100

1090

1083.51 | 1084.46 | 1085.74 | 1087.26 | 1089.10 | 1091.58 | 1093.93 | 1096.20 | 1098.10 | 1099.29 | 1099.47 | 1100.36 | 1100.72

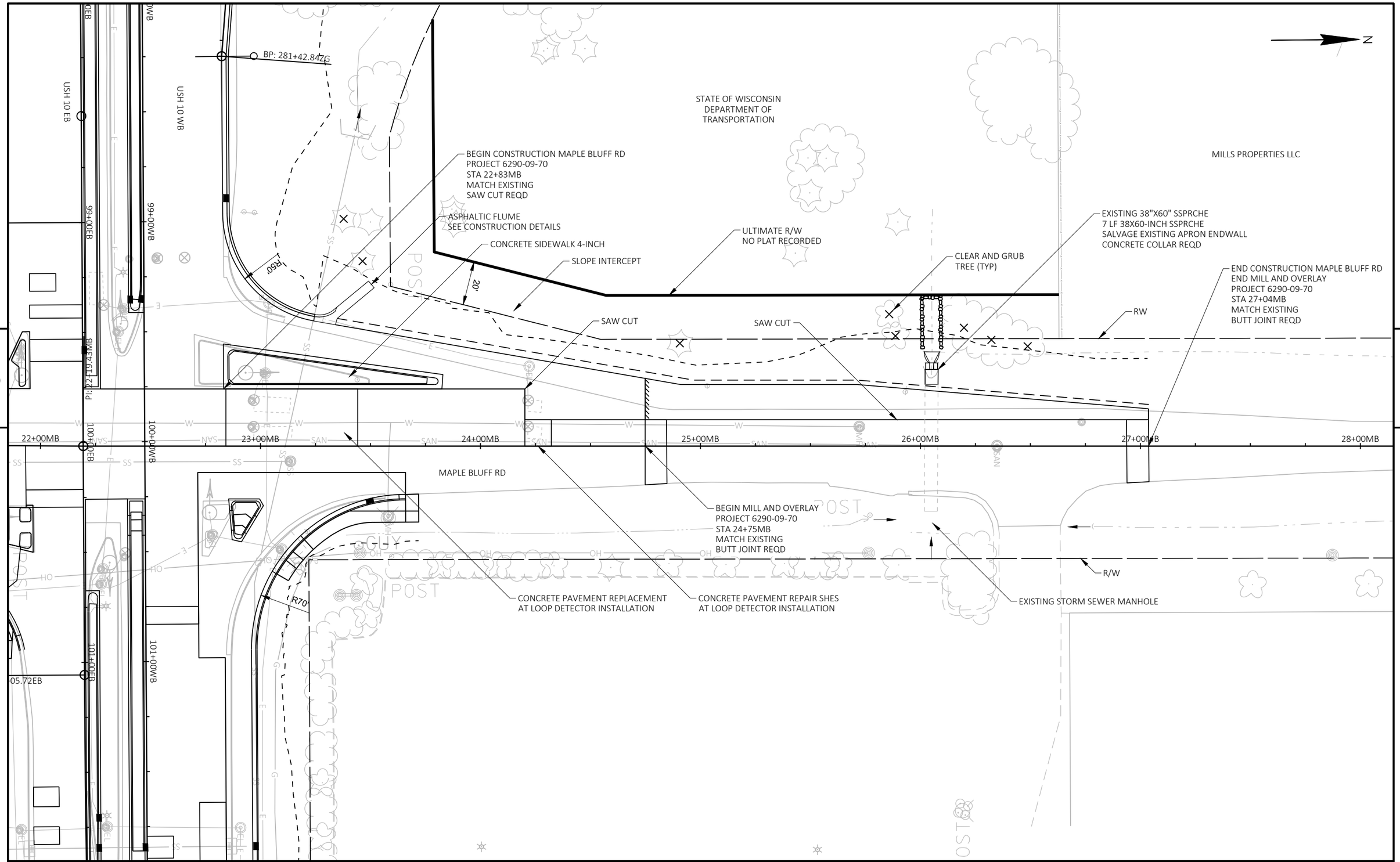
282+00 | 283+00 | 284+00 | 285+00 | 286+00 | 287+00

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	PLAN AND PROFILE: ZZ - IH 39 NB OFF RAMP TO USH 10 EB	SHEET 414	E

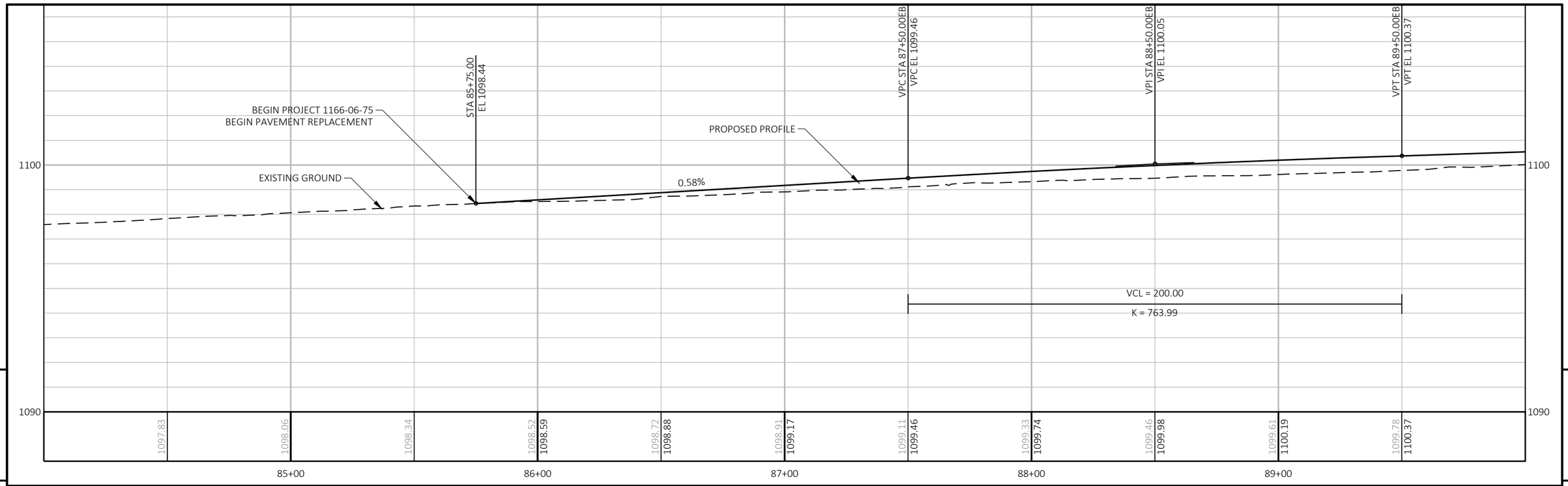
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 16

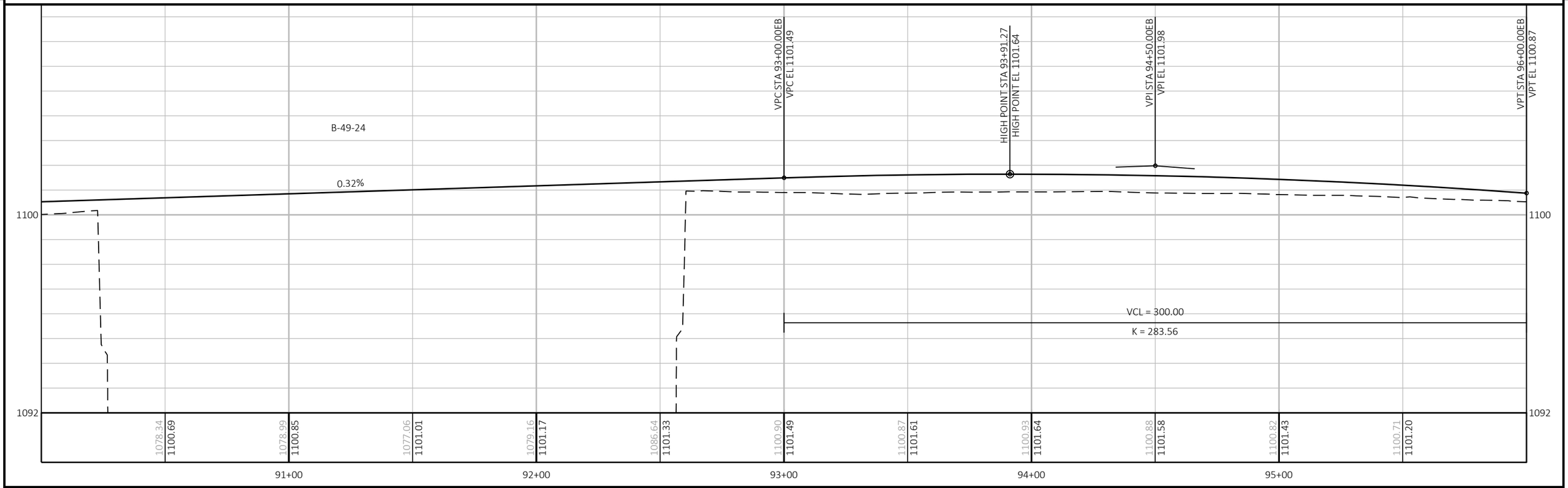
PLOT DATE : 6/16/2021 1:23 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PLAN	SHEET 415	E



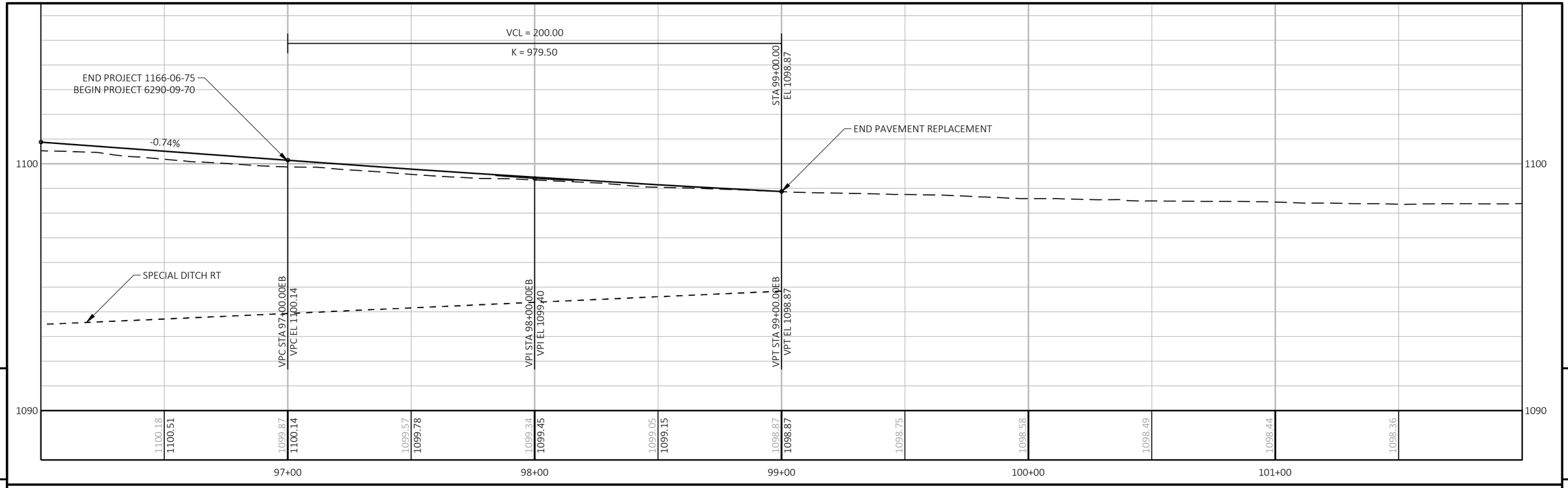


PROJECT NO: 1166-06-75	HWY: USH 10/STH 66	COUNTY: PORTAGE	PROFILE: USH 10 EB/STH 66 EB	SHEET 416	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 18

PLOT DATE : 6/16/2021 1:24 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



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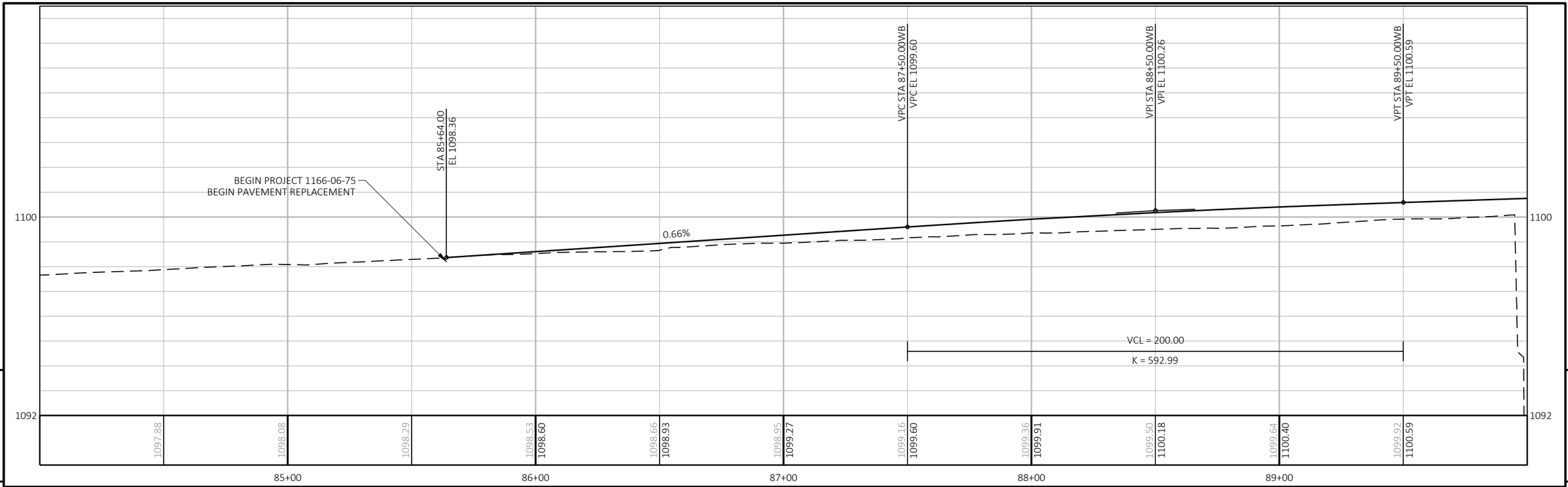
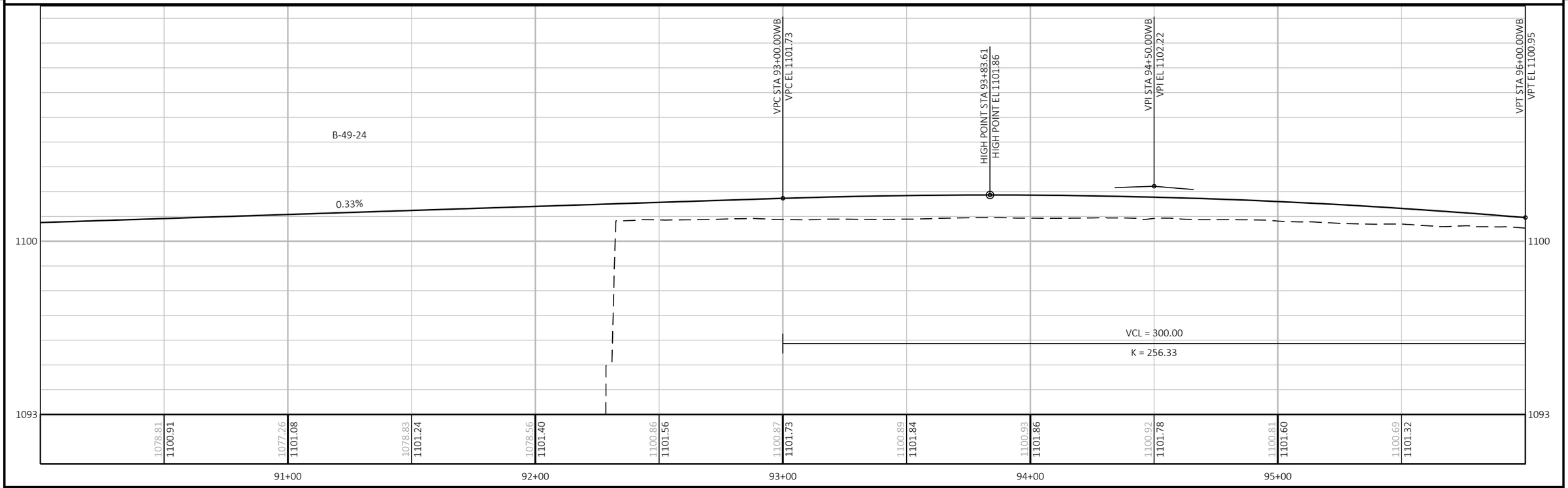
PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PROFILE: USH 10 EB	SHEET 417	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 19
PLOT DATE : 6/16/2021 1:24 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



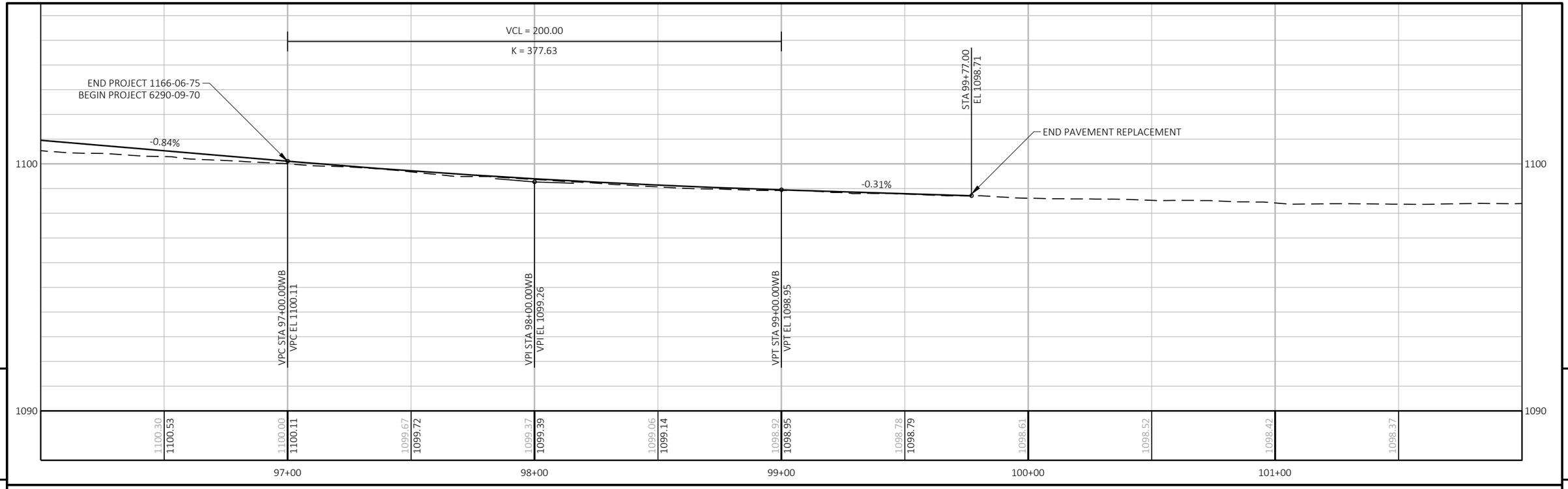


PROJECT NO: 1166-06-75	HWY: USH 10/STH 66	COUNTY: PORTAGE	PROFILE: USH 10 WB/STH 66 WB	SHEET 418	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 20

PLOT DATE : 6/16/2021 1:25 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



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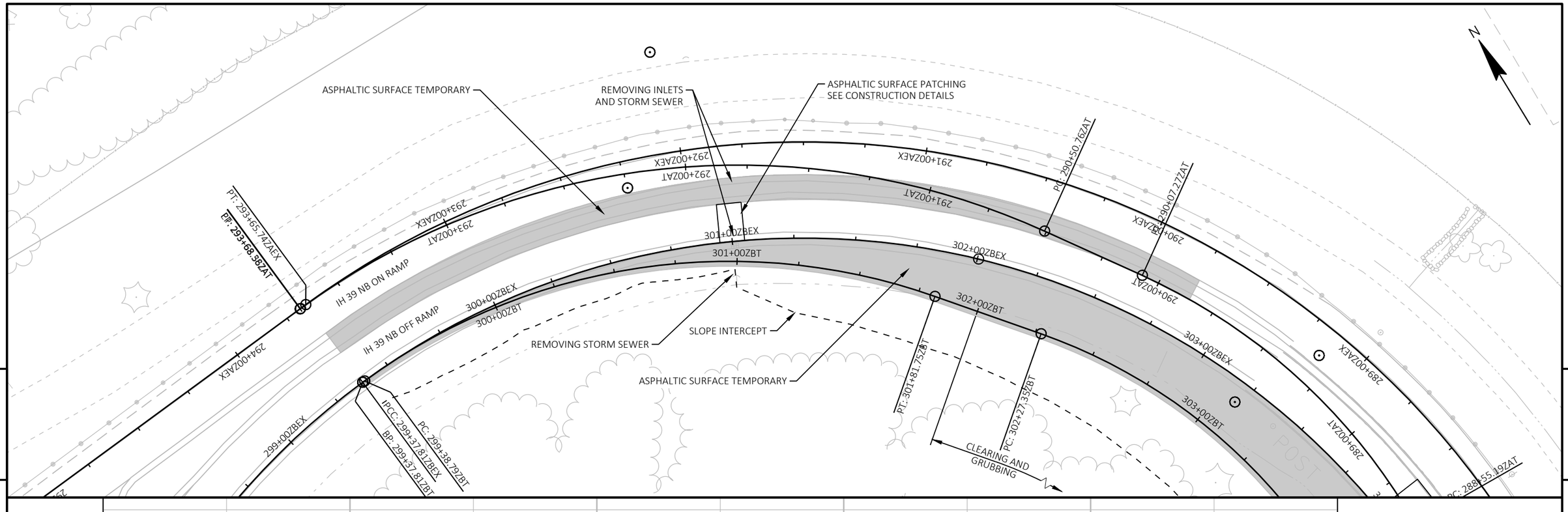
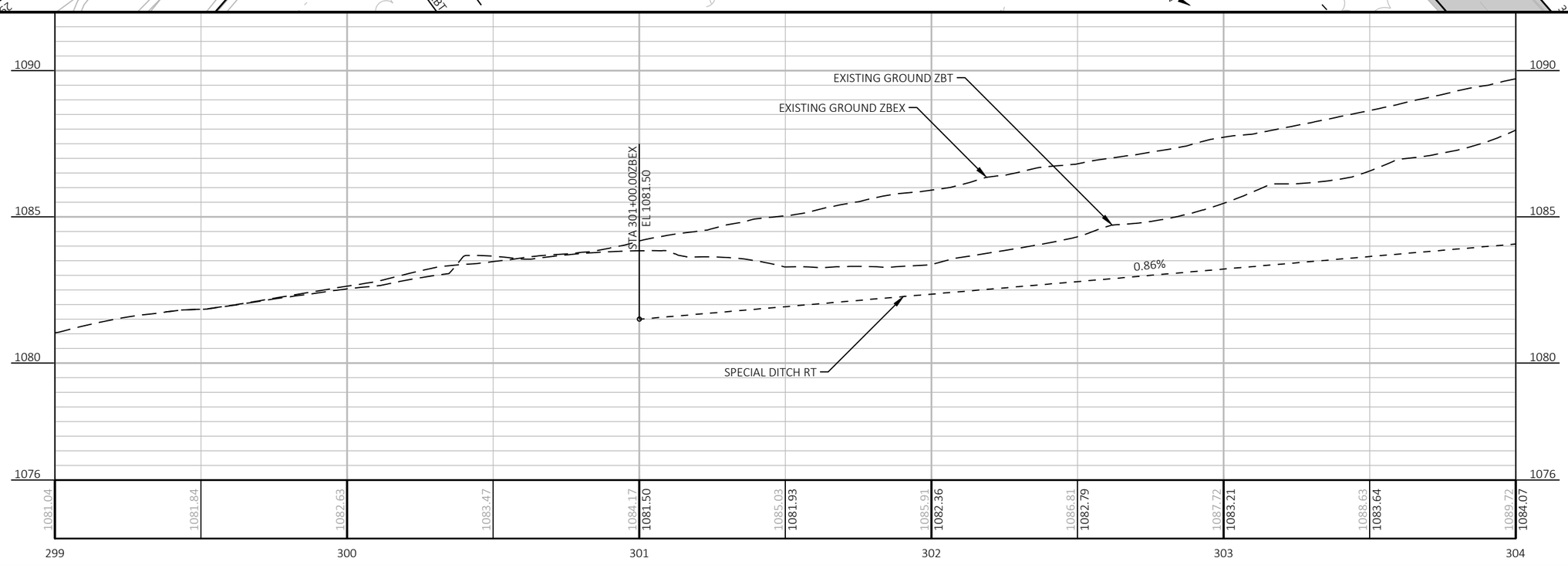
PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PROFILE: USH 10 WB	SHEET 419	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 21
PLOT DATE : 6/16/2021 1:25 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



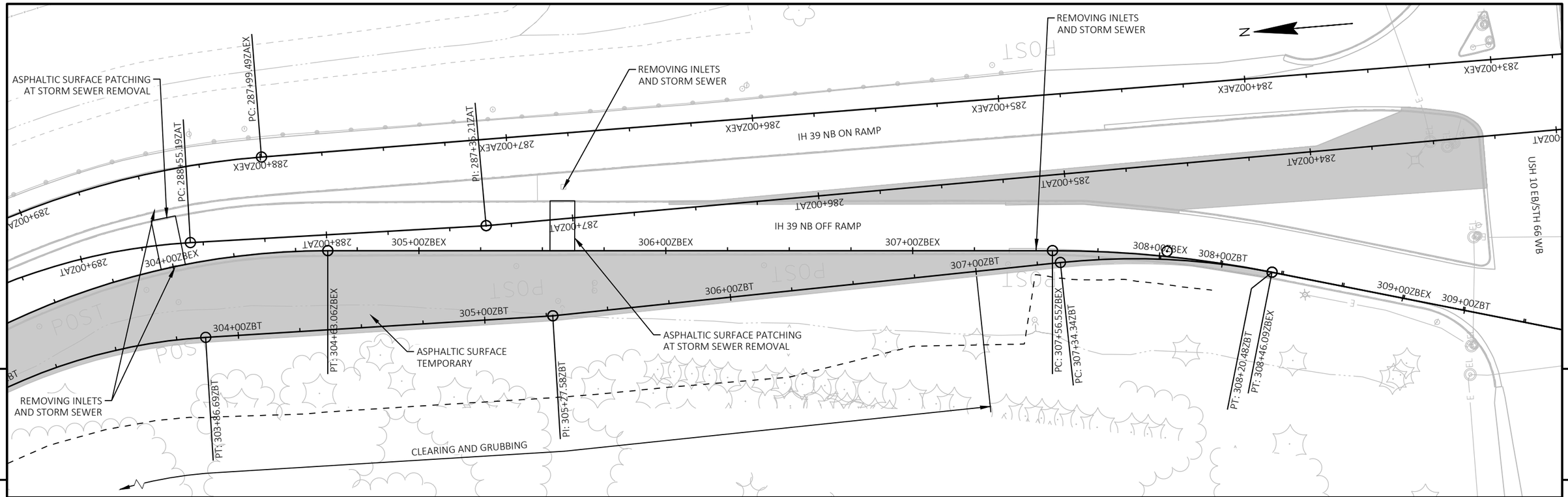


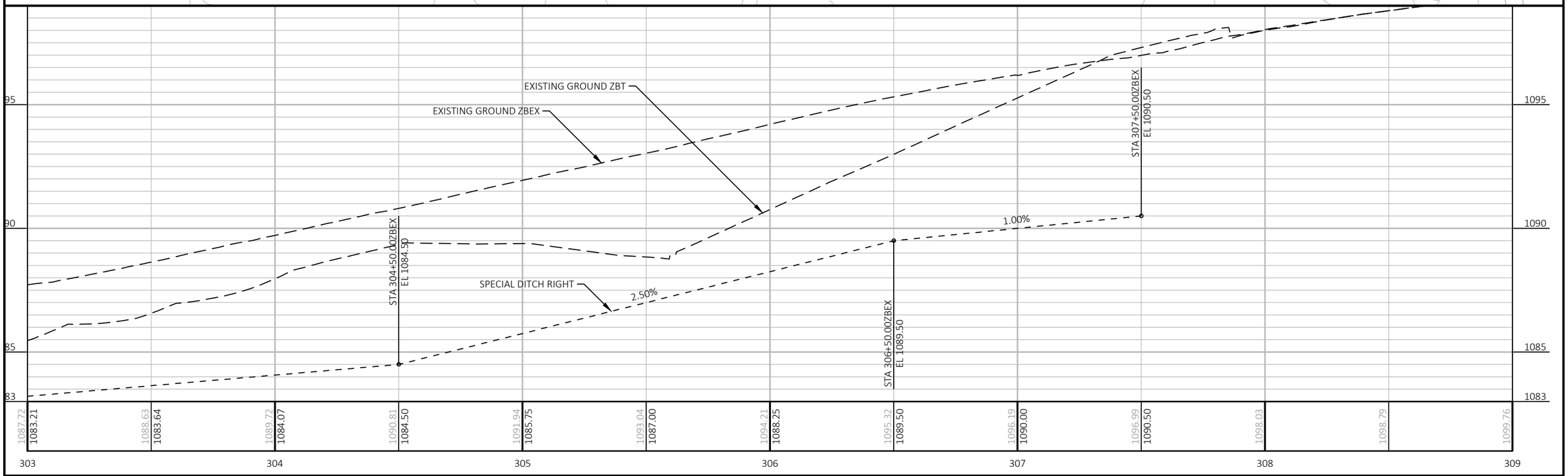
PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PLAN AND PROFILE: ZBEX & ZBT - IH 39 NB TEMPORARY OFF RAMP	SHEET 420	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050202-PN.DWG
LAYOUT NAME - 01

PLOT DATE : 6/15/2021 8:29 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:40 FT

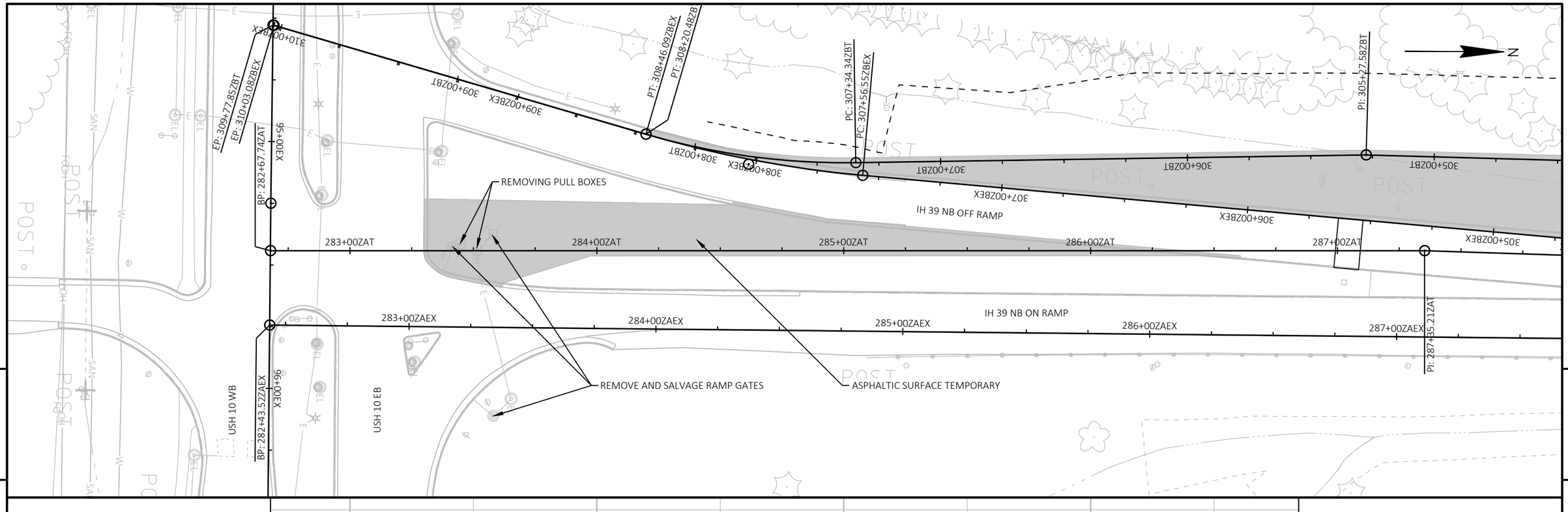
WISDOT/CADDS SHEET 44

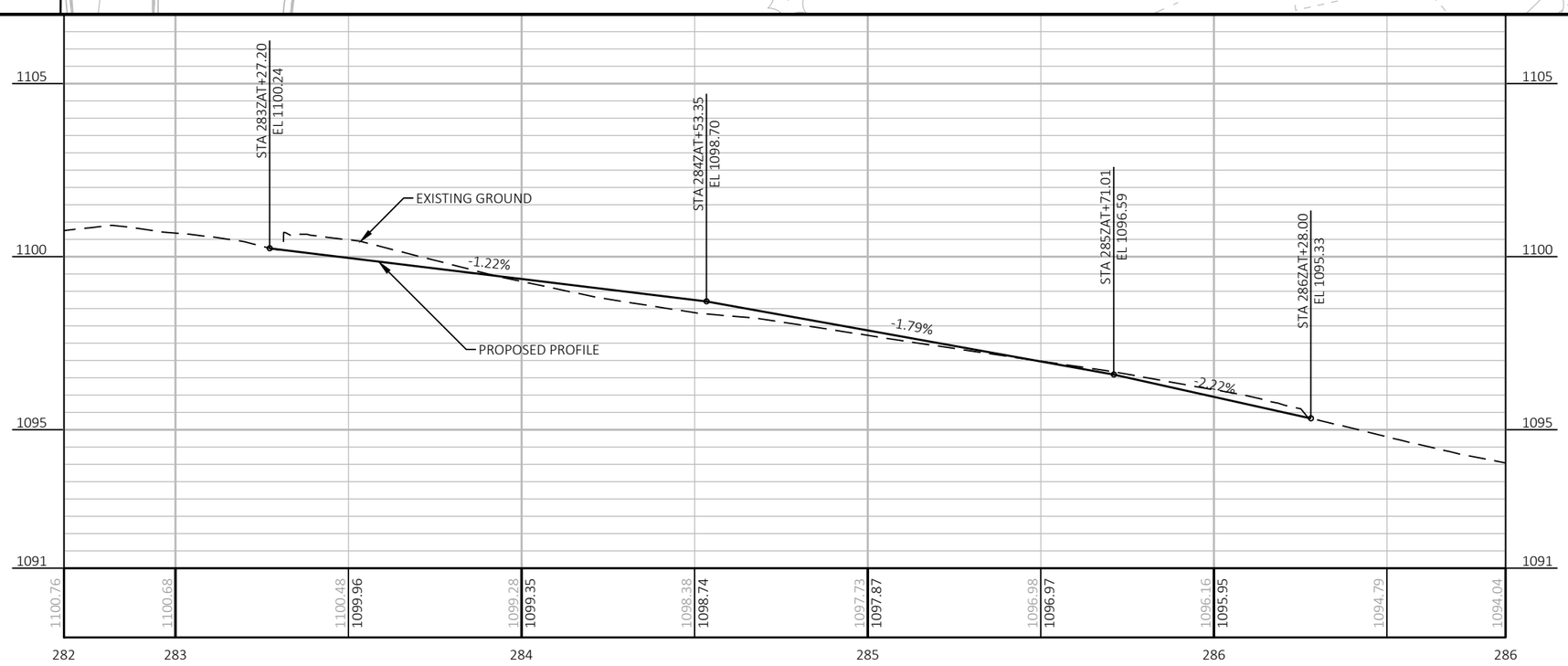




PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PLAN AND PROFILE: ZBEX & ZBT - IH 39 NB TEMPORARY OFF RAMP	SHEET 421	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050202-PN.DWG
LAYOUT NAME - 02
PLOT DATE : 6/15/2021 8:30 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44





PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PLAN AND PROFILE: ZAT TEMPORARY ON RAMP	SHEET 422	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\050202-PN.DWG
LAYOUT NAME - 03
PLOT DATE : 6/15/2021 8:30 AM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D03-08A	CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
08D03-08B	CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
09B02-10	CONDUIT
09B16-01	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C08-05	CONCRETE BASE, TYPE 7
09C11-10	CONCRETE BASE TYPE 10
09C12-09A	CONCRETE BASE TYPE 13
09C12-09B	CONCRETE BASE TYPE 13
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09C15-01	CONCRETE BASE TYPE 10 SPECIAL
09D02-03	SIGNAL CONTROL CABINET
09E01-15C	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-15E	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 6 (35 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.
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-09D	TYPE 9 SPECIAL POLE 45' MONOTUBE ARM
09E08-09E	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-09F	TYPE 10 SPECIAL POLE 35' MONOTUBE ARM
09E08-09K	GENERAL NOTES,HARDWARE DETAILS FOR TYPE 9/10,9/10 SPECIAL,12 & 13 POLES W/MONOTUBE ARMS
09E12-01B	OVER HEIGHT TYPE 10 POLE 15'-30' MONOTUBE ARM
09E12-01D	OVER HEIGHT TYPE 13 POLE 35'-55' MONOTBE ARM
09E12-01E	GENERAL NOTES AND HARDWARE DETAILS FOR OVER HEIGHT TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS
09F08-04	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ASPHALTIC PAVEMENT)
09F09-05	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT)
09G01-04B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13A03-06	CONCRETE PAVEMENT SHOULDERS
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C09-15A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-15B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-15C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT

6

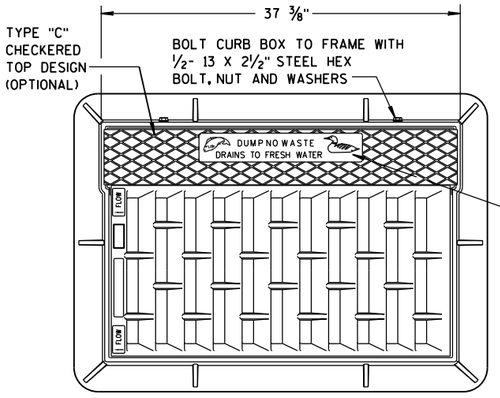
Standard Detail Drawing List

13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C19-03	HMA LONGITUDINAL JOINTS
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B28-04A	GUARDRAIL MOW STRIP
14B28-04B	GUARDRAIL MOW STRIP
14B32-07A	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-07B	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-07C	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-07D	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B33-02G	CONCRETE BARRIER SINGLE SLOPE 42" THRIE BEAM ANCHOR
14B33-02H	CONCRETE BARRIER SINGLE SLOPE 42" THRIE BEAM ANCHOR
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08D	ON RAMP LANE CLOSURE
15C02-08E	OFF RAMP LANE CLOSURE
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
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)
15C11-08A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-08B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-05B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C18-05C	PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D03-05	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
15D12-09A	TRAFFIC CONTROL, LANE CLOSURE
15D15-05E	TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-05A	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
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-06A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-06B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-06C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

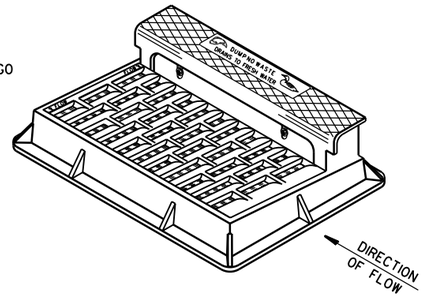
6

Standard Detail Drawing List

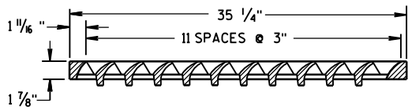
15D35-03A	RAMP GATE HARD WIRED
15D35-03B	RAMP GATE HARD WIRED
15D35-03C	RAMP GATE HARD WIRED
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D40-01	TRAFFIC CONTROL, LANE SHIFT, MULTILANE DIVIDED OR ONE WAY ROAD
15D40-02A	TRAFFIC CONTROL, FULL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D40-02D	TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
15D41-01	TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTILANE DIVIDED ROAD
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D46-01	TRAFFIC CONTROL, ONE - WAY SIGNING

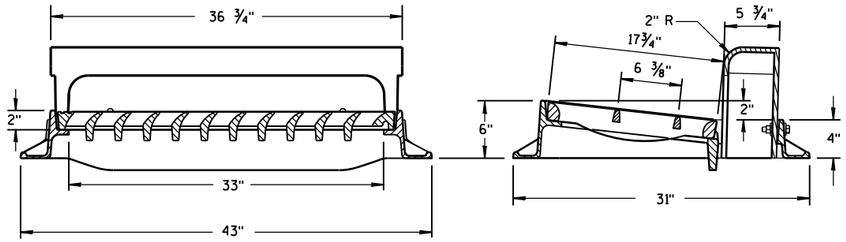


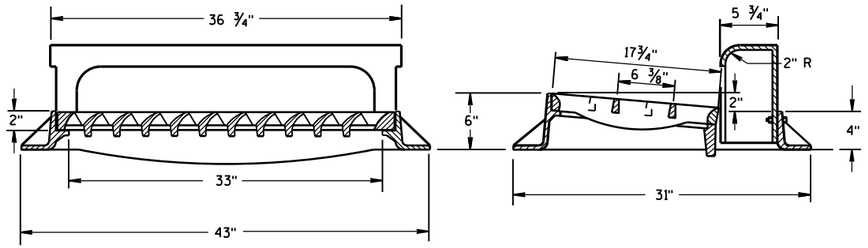
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

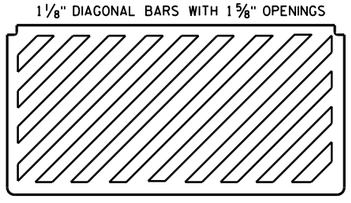






TYPE "H"

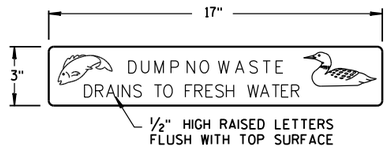
NOTE: EITHER CASTING IS ACCEPTABLE



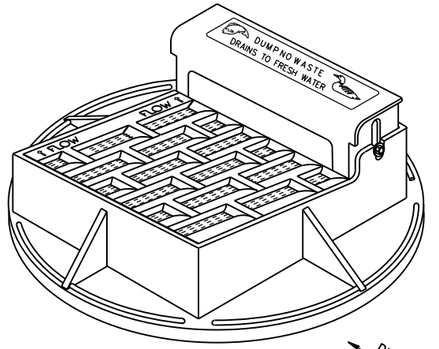
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

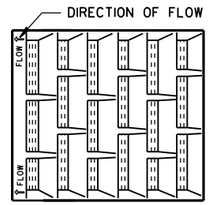
NOTE:
GRATE IS REVERSIBLE.

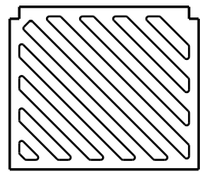
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

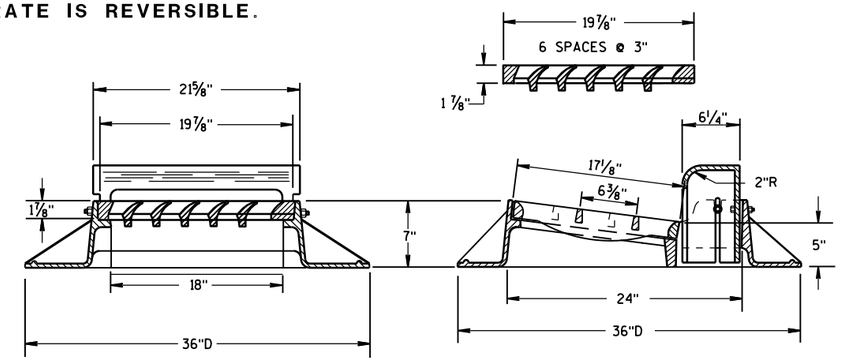




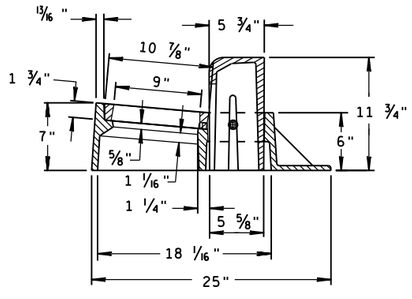
SPECIAL GRATE FOR TYPE "A" COVER

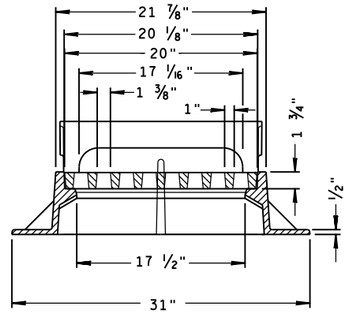
(MEASURES 19 3/4" X 17" X 1 7/8")

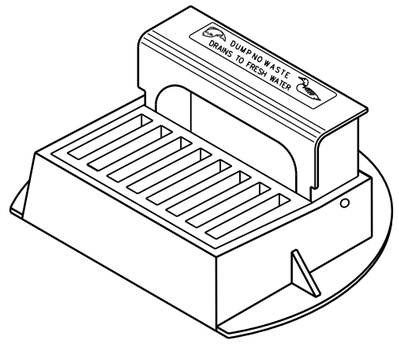
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

INLET COVERS
TYPE A, H, A-S, H-S & Z

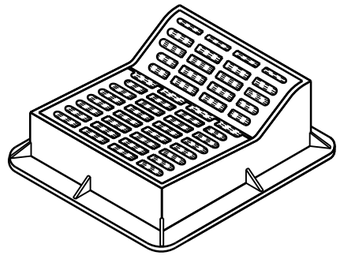
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

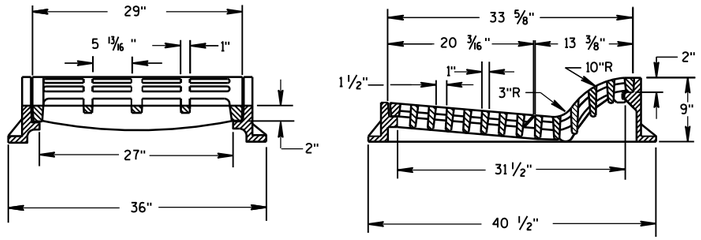
APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER

FHWA

6

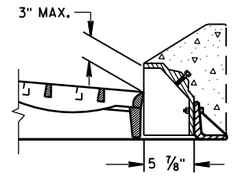
S.D.D. 8 A 5-19a





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

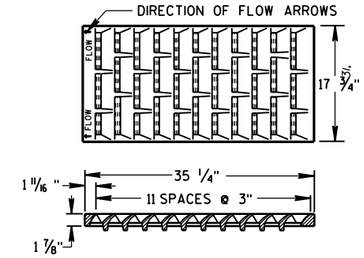
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

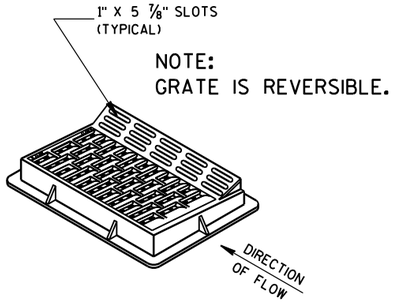
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

GENERAL NOTES

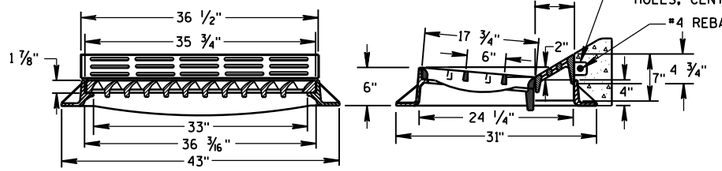
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.





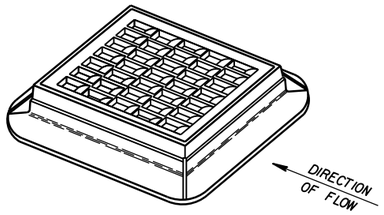
NOTE:
GRATE IS REVERSIBLE.

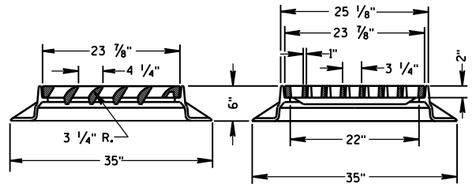


TYPE "HM"

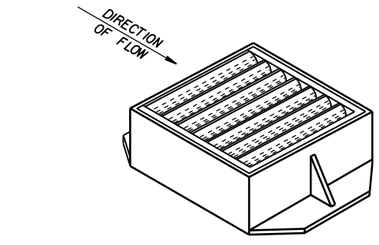
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

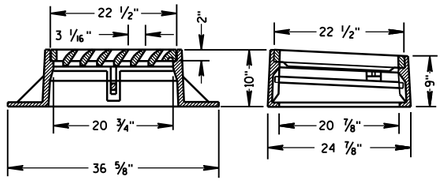
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



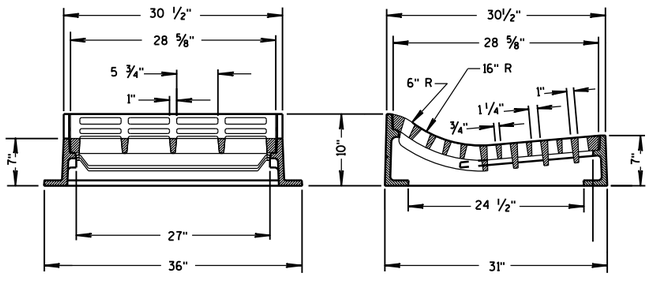


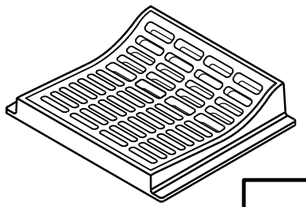
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

427

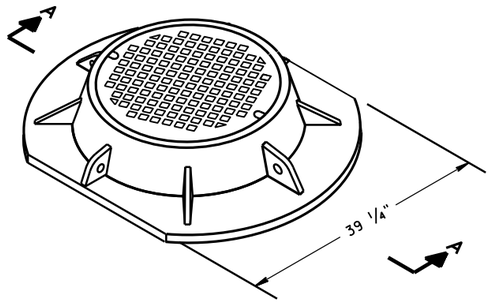
FHWA

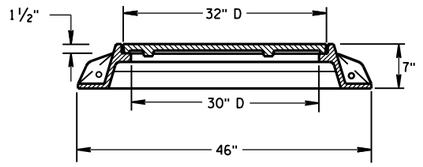
6

S.D.D. 8 A 5-19c

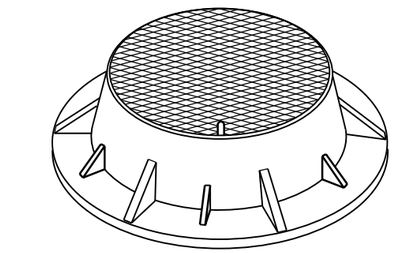
6

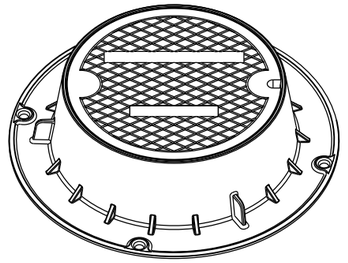
S.D.D. 8 A 5-19c

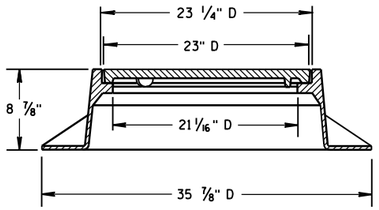


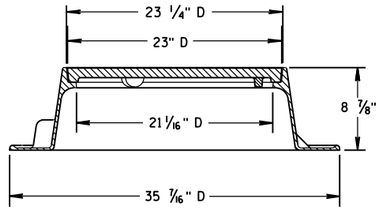


SECTION A-A
TYPE "K"









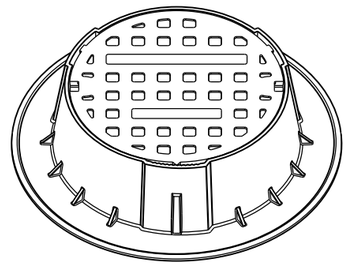
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

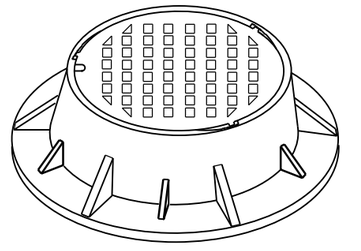
GENERAL NOTES

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

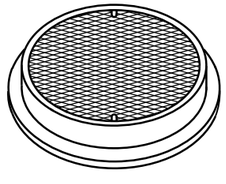
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

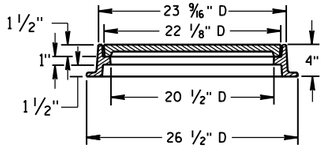
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



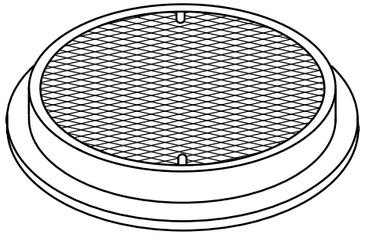


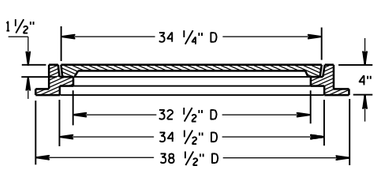
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



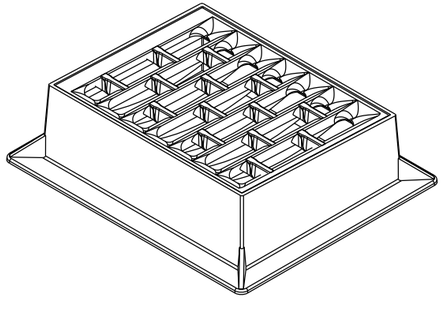


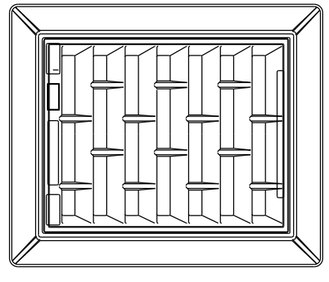
TYPE "L"

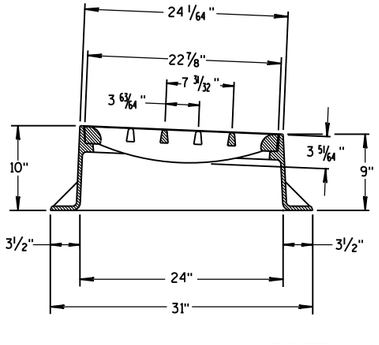


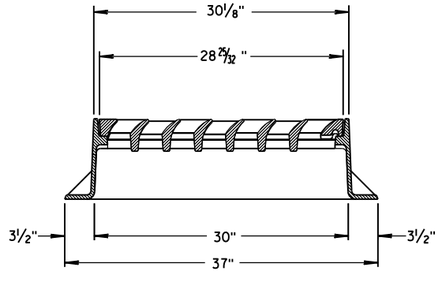


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

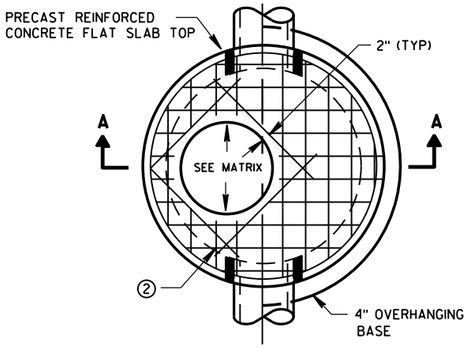
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

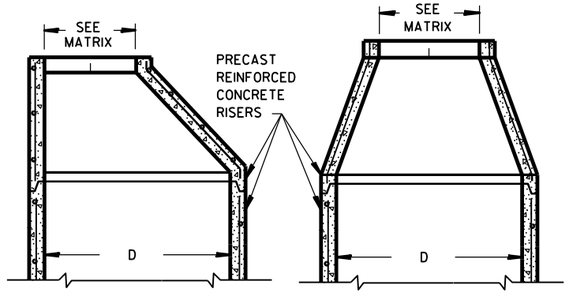
S.D.D. 8 A 5-19d

6

S.D.D. 8 A 5-19d

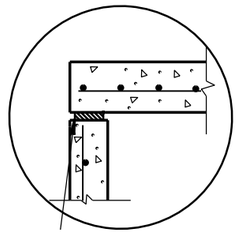


PLAN VIEW CIRCULAR OPENING

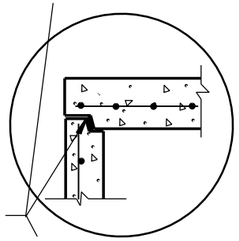


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

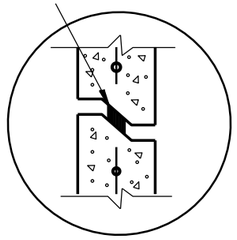


TOP WITH PLAIN END JOINT



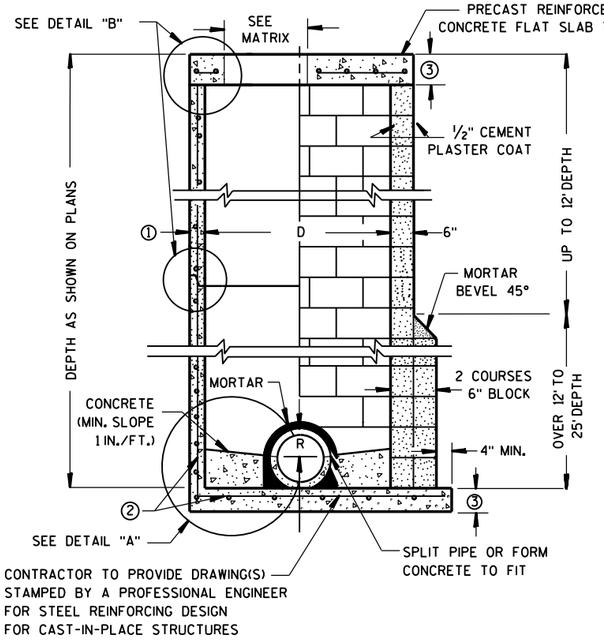
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



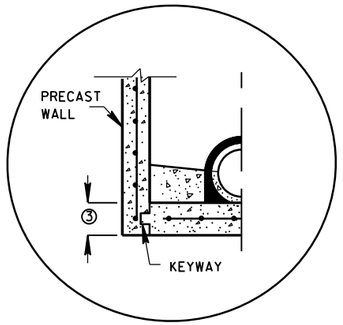
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

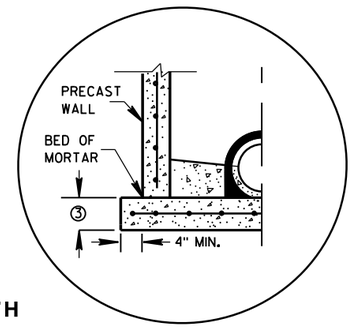


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

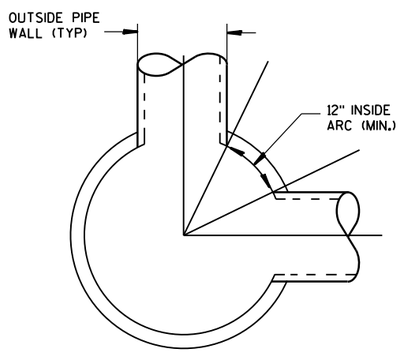


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2016
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
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MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

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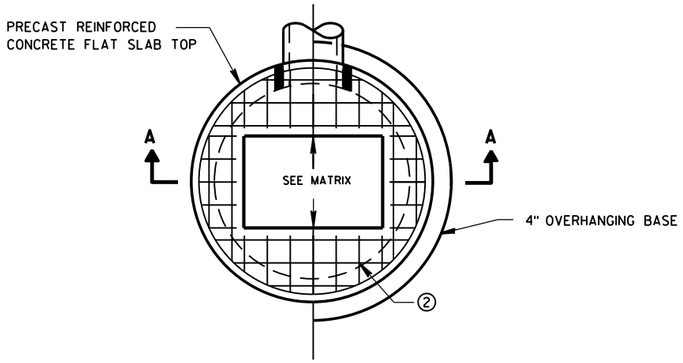
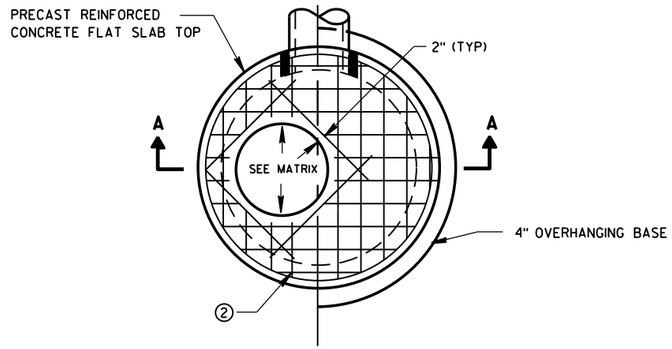
S.D.D. 8 B 9-2

6

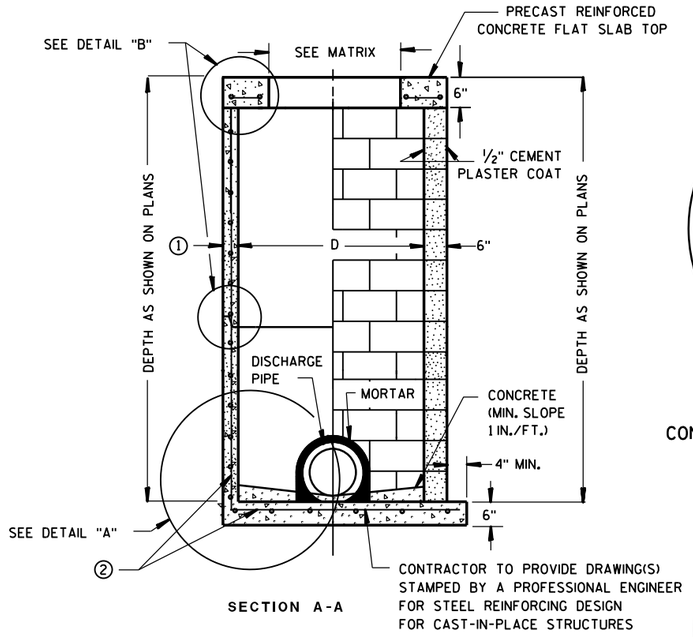
S.D.D. 8 B 9-2



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

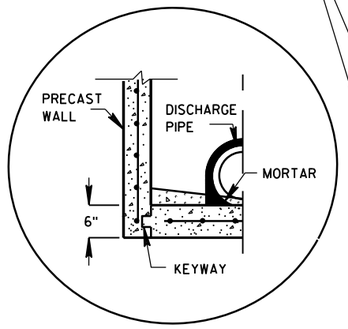


SECTION A-A

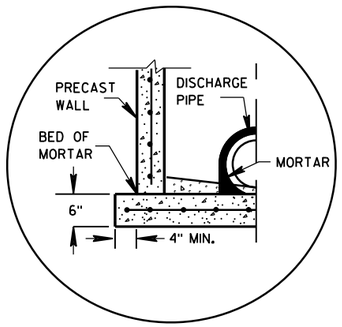
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

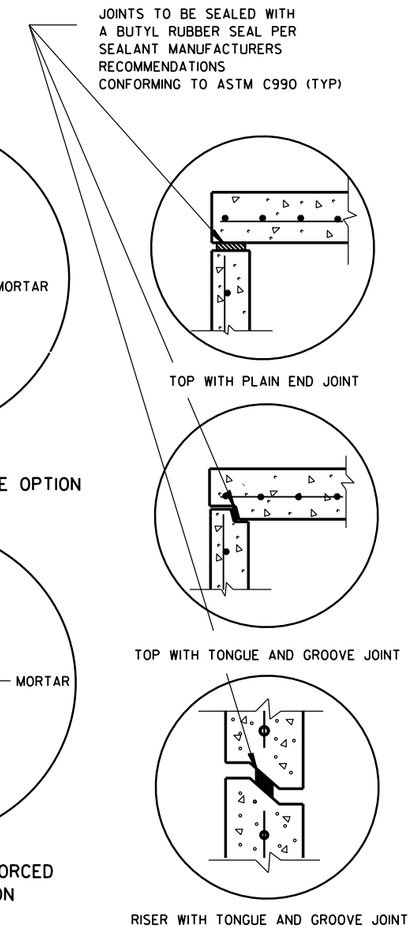


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

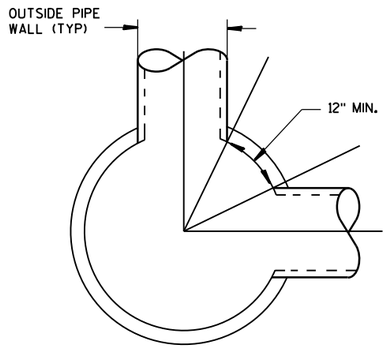
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS | UNIT SUPERVI ENT
FHWA

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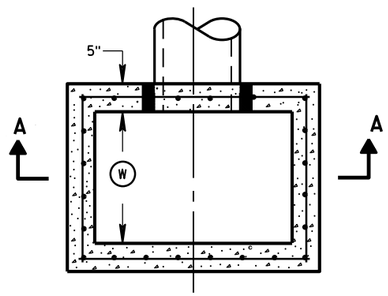
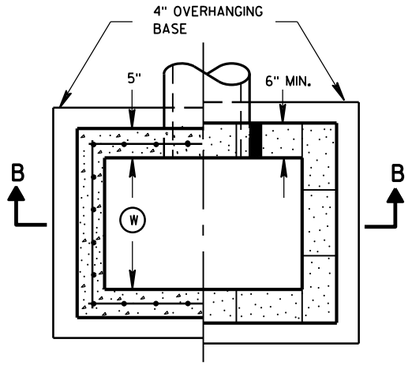
S.D.D. 8 C 6-2

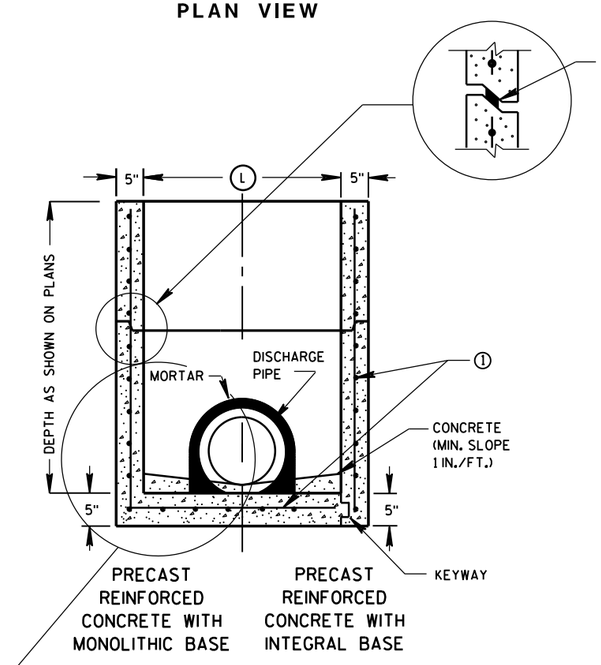
INLETS 3-FT AND 4-FT DIAMETER



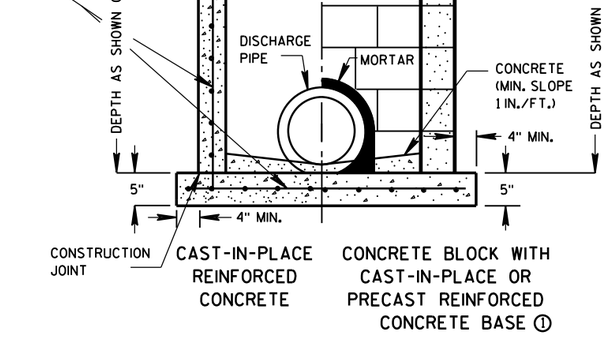
PLAN VIEW



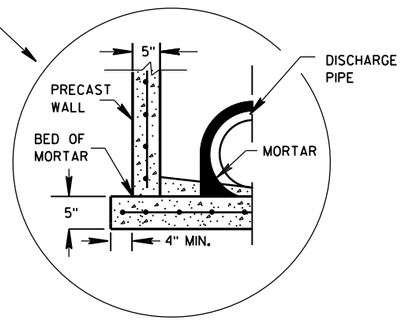
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

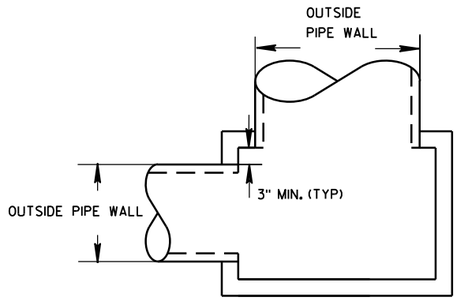
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
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Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT
UNIT SUPERVIS
FHWA

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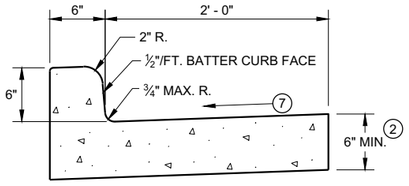
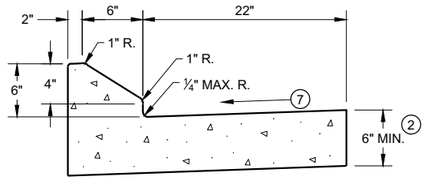
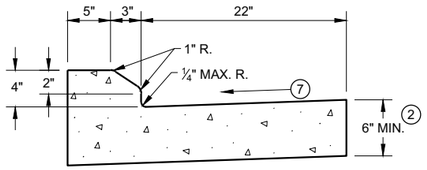
S.D.D. 8 C 7-2



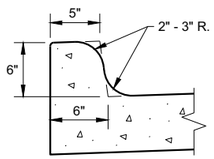
TYPES A[1] & D



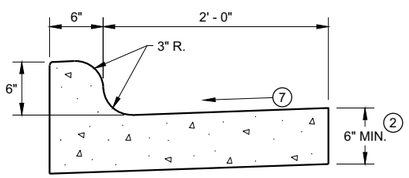
6" SLOPED CURB TYPES G[1] & J



4" SLOPED CURB TYPES G[1] & J

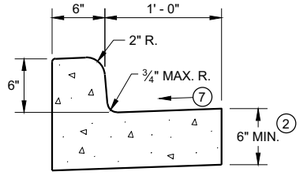


TYPES K[1] & L
(OPTIONAL CURB SHAPE)



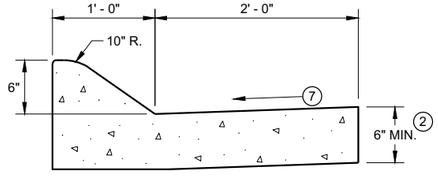
TYPES K[1] & L

CONCRETE CURB AND GUTTER 30"



TYPES A[1] & D

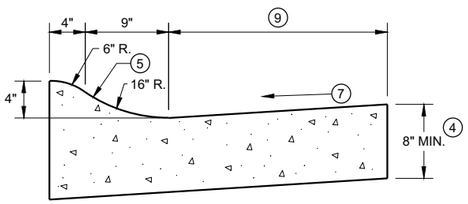
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A[1] & D

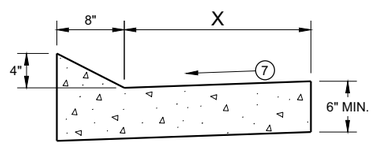
4" SLOPED CURB TYPES A[1] & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R[1] & T

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

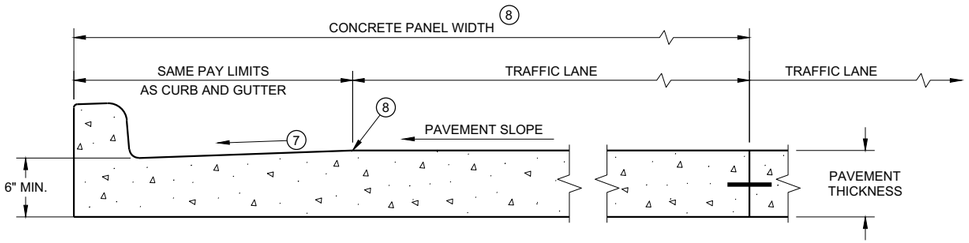


TYPES TBT & TBTT[1]

CONCRETE CURB AND GUTTER

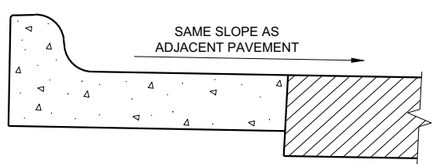
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER[6]
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

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

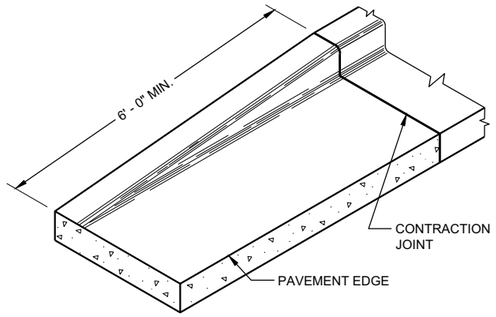
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

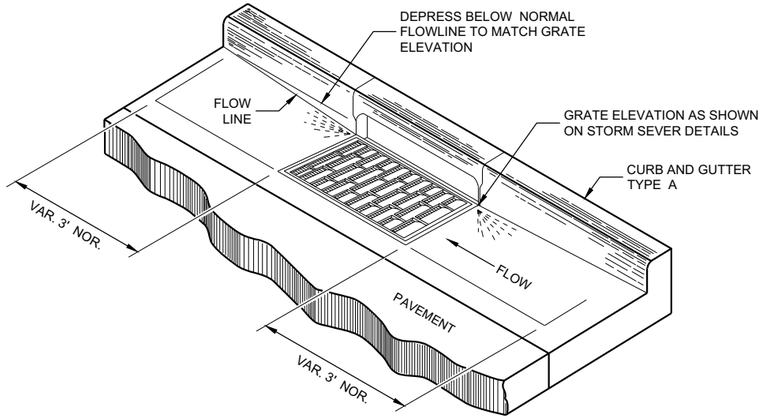
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

1. TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
2. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
3. USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
4. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
5. UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
6. WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
7. USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
8. INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.
9. CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
   CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

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

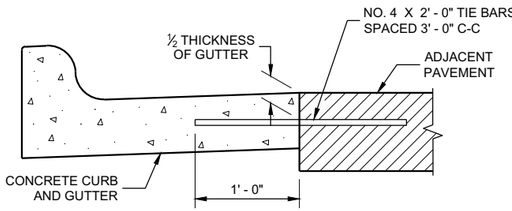
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

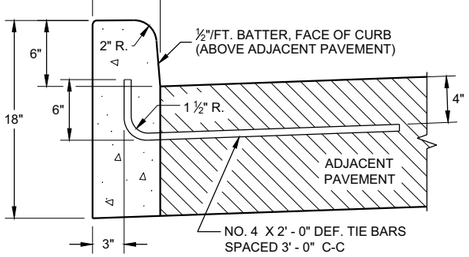
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

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

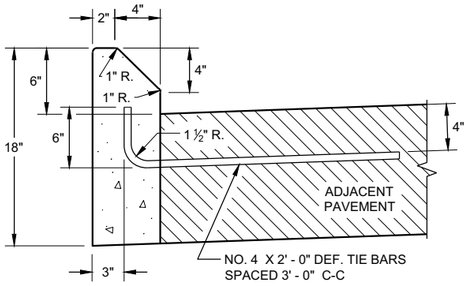
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

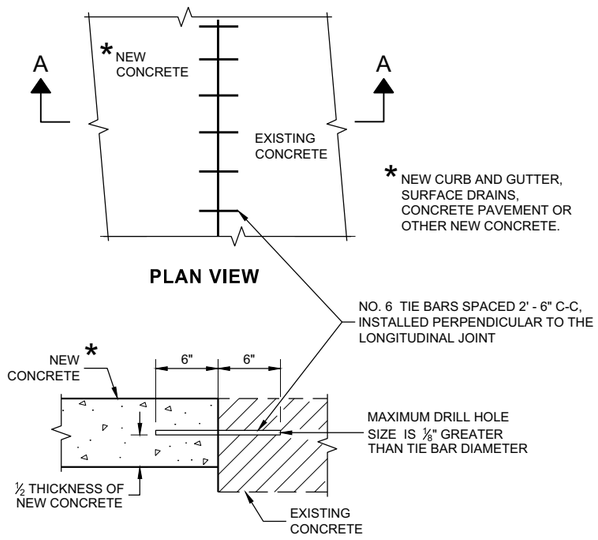


TYPES A (1) & D

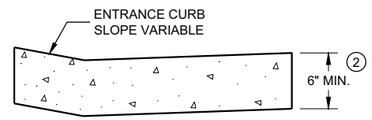


TYPES G (1) & J

CONCRETE CURB



TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

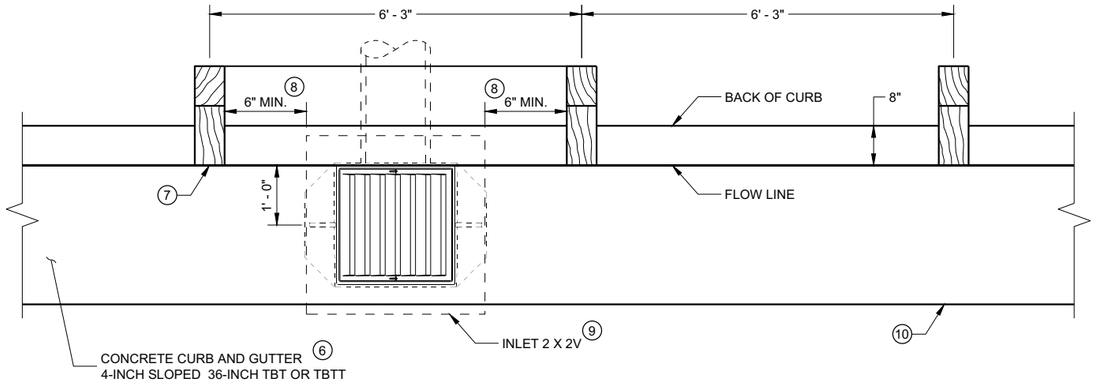
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

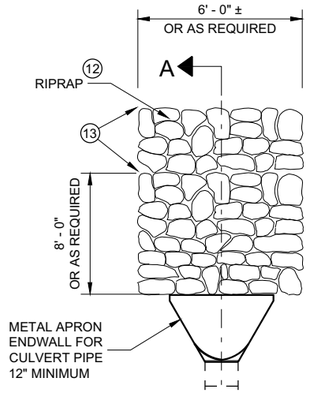
6

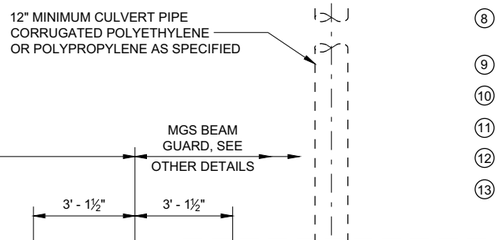
SDD08D01 - 22b
SDD08D01 - 22b



INLET PLAN VIEW

(NOTE: RAIL NOT SHOWN FOR CLARITY)





GENERAL NOTES

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

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE DRAINAGE STRUCTURE BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER DRAINAGE STRUCTURE BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE WALL OF DRAINAGE STRUCTURE TO POSTS.

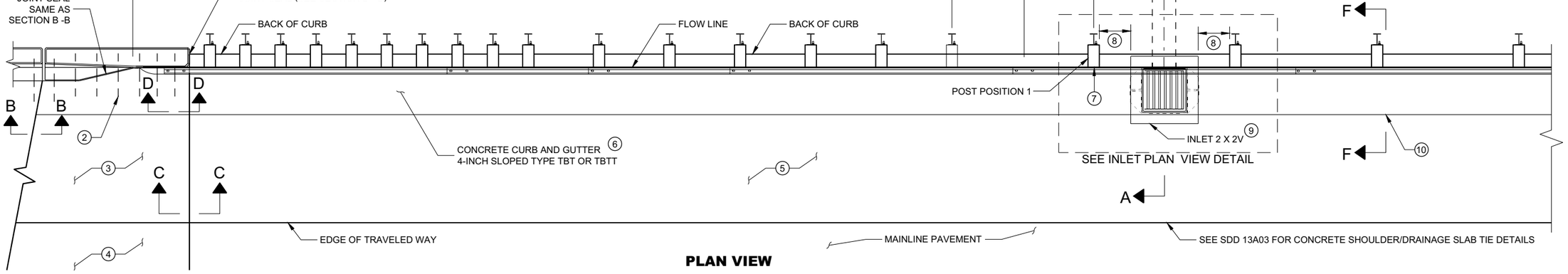
(9) SEE SDD 08A05 AND 08C07 FOR DETAILS. SEE ROADWAY PLANS FOR LOCATION.

(10) START CURB AND GUTTER TRANSITION OR END SECTION.

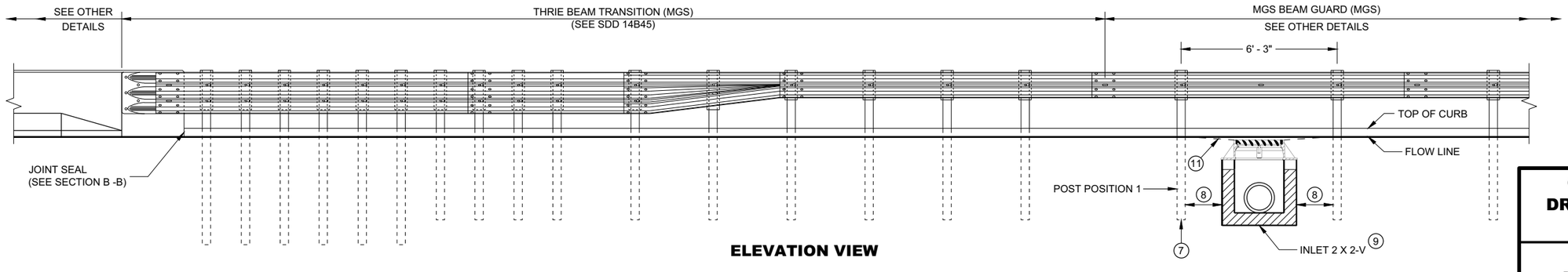
(11) DEPRESS FLOW LINE (SEE DETAIL)

(12) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(13) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.



PLAN VIEW



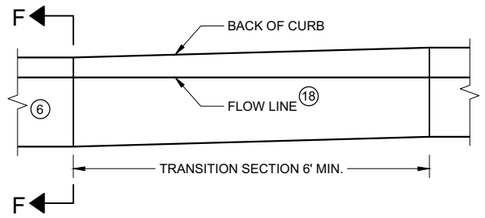
ELEVATION VIEW

CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES

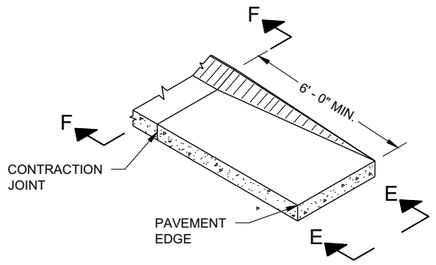
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D03 - 08a

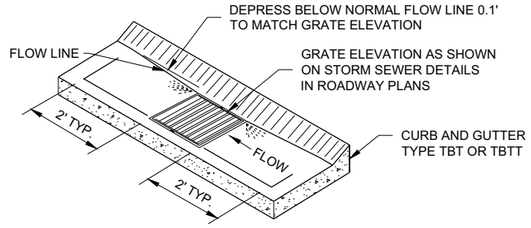
SDD 08D03 - 08a



CURB AND GUTTER TRANSITION SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



CURB AND GUTTER END SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



CURB AND GUTTER FLOW LINE DEPRESSION AT INLETS CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT

GENERAL NOTES

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

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE DRAINAGE STRUCTURE BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER DRAINAGE STRUCTURE BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE WALL OF DRAINAGE STRUCTURE TO POSTS.

(9) SEE SDD 08A05 AND 08C07 FOR DETAILS. SEE ROADWAY PLANS FOR LOCATION.

(10) START CURB AND GUTTER TRANSITION OR END SECTION.

(11) DEPRESS FLOW LINE (SEE DETAIL)

(12) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(13) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

(14) GEOTEXTILE FABRIC TYPE HR.

(15) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.

(16) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.

(17) ALIGN FACE OF POST BLOCK WITH FLOW LINE.

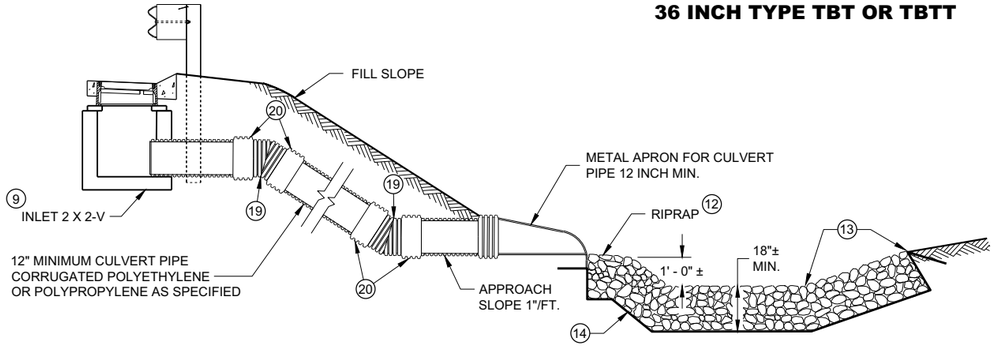
(18) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.

(19) MANUFACTURER SUPPLIED BEND.

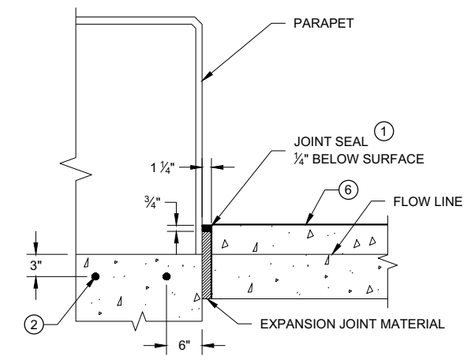
(20) MANUFACTURER SUPPLIED EXTERNAL MECHANICAL COUPLING OR A MANUFACTURER RECOMMENDED COUPLING WITH A MASTIC IMPREGNATED GEOTEXTILE WRAP AND MECHANICAL FASTENING BANDS.

(21) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.

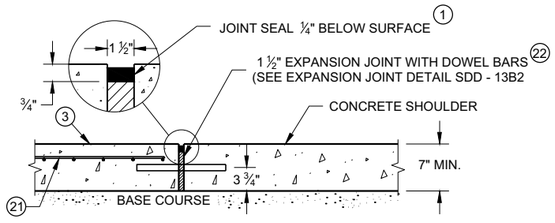
(22) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



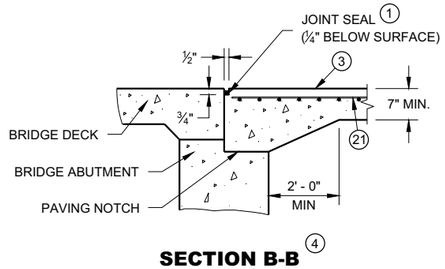
SECTION A - A



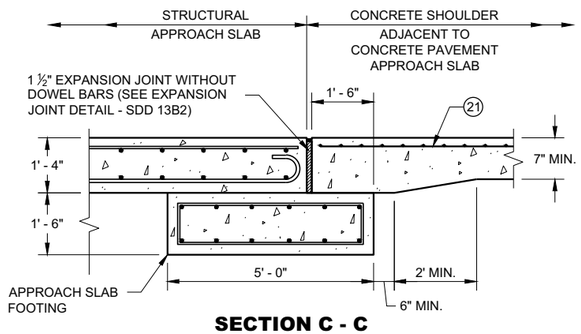
SECTION D - D



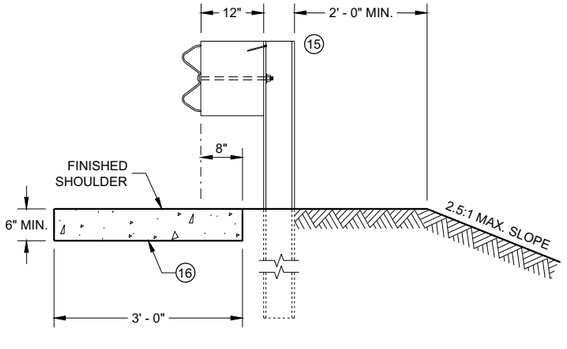
SECTION C - C
JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS



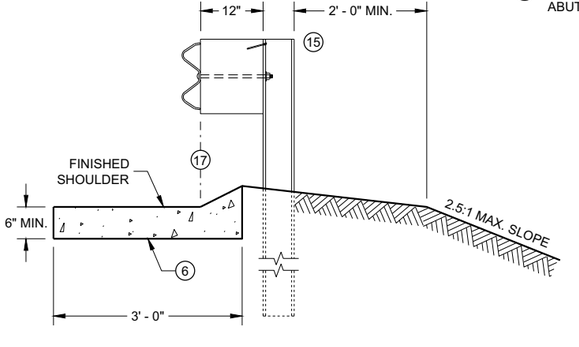
SECTION B-B (4)



SECTION C - C
JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



SECTION E - E



SECTION F - F

CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

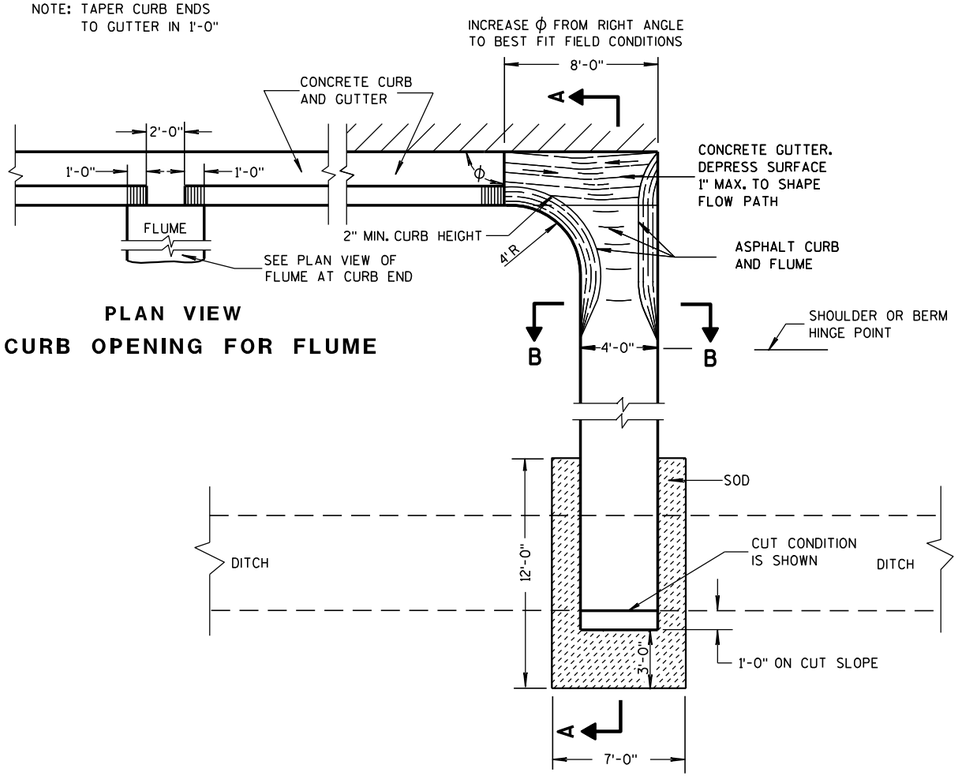
APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

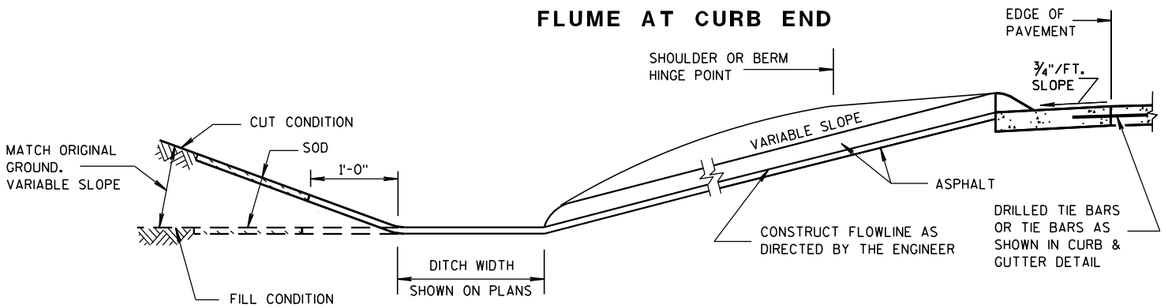
SDD 08D03 - 08b
SDD 08D03 - 08b

ASPHALTIC FLUME

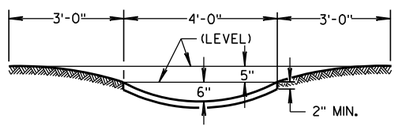


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

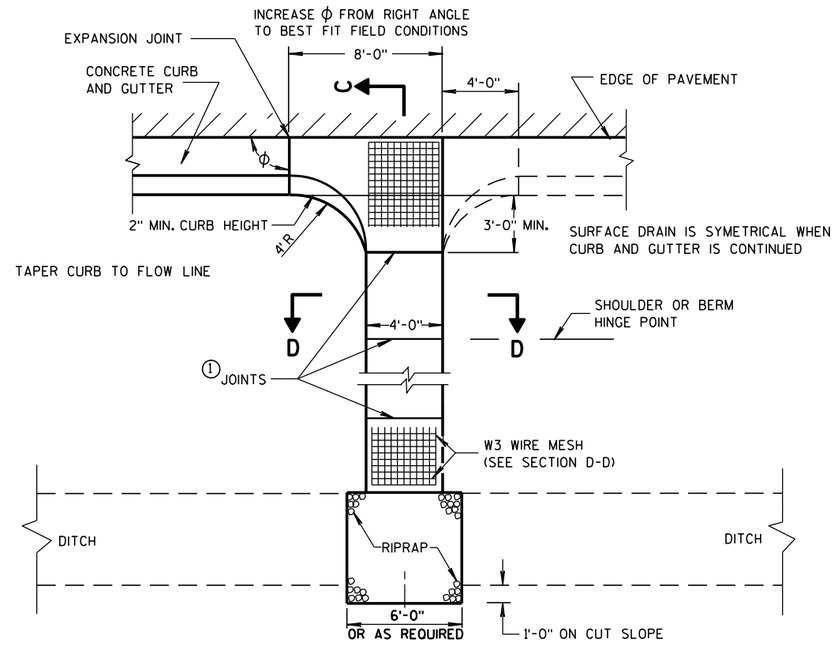
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE ⅛ TO ¼ INCH WIDE BY 1½ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

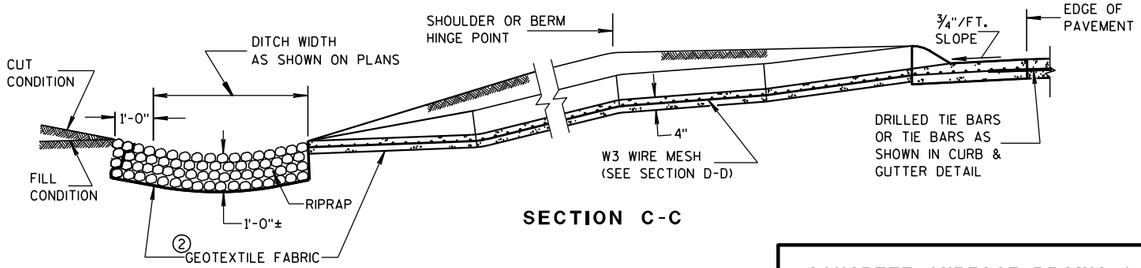
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

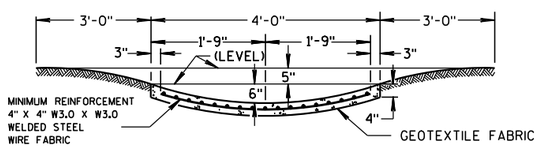
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
436
MENT
FHWA

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S.D.D. 8 D 4-5

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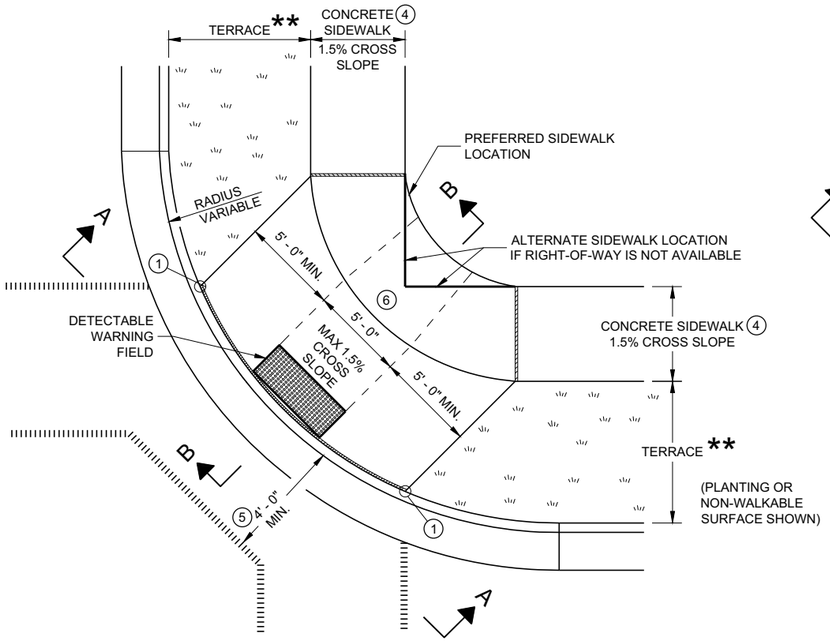
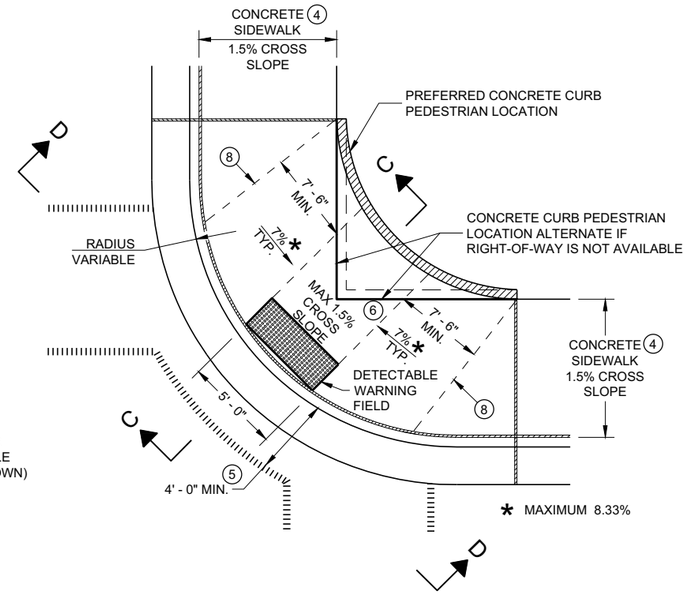


PLAN VIEW

CURB RAMP TYPE 1

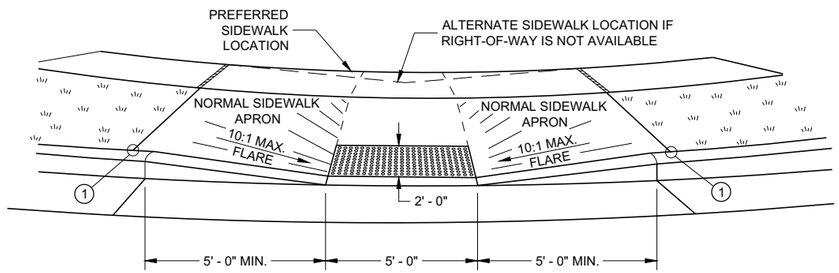
(CENTER OF CORNER RADIUS)



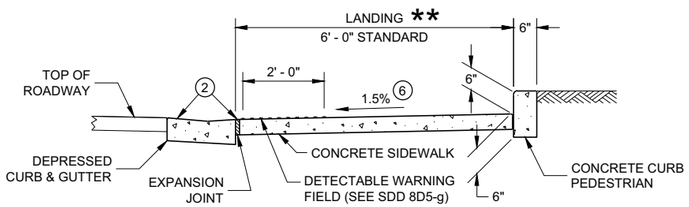
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

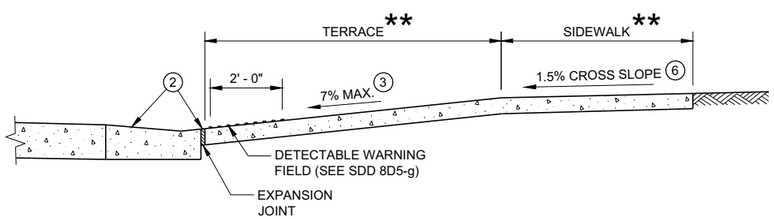


VIEW A - A FOR TYPE 1

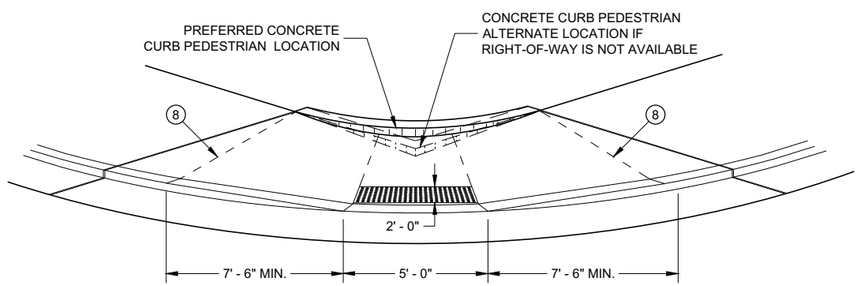


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

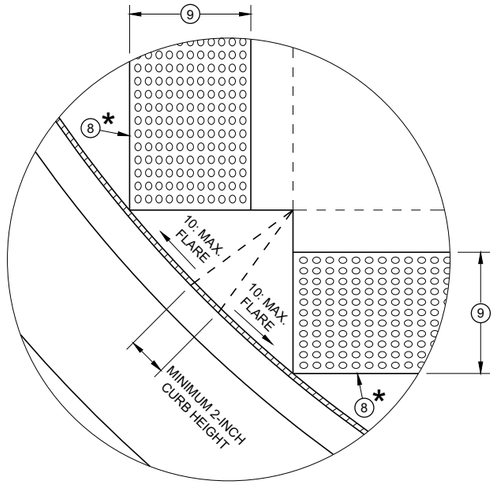
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

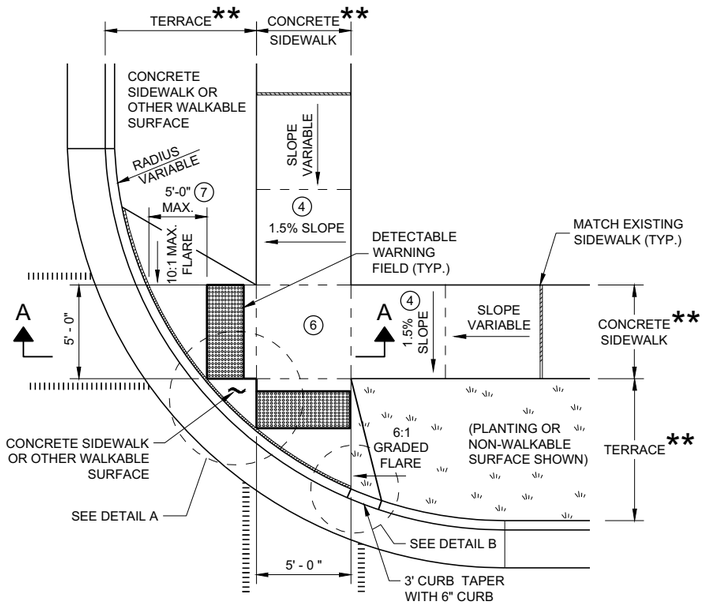
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

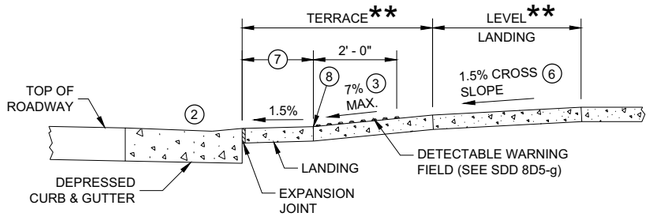
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

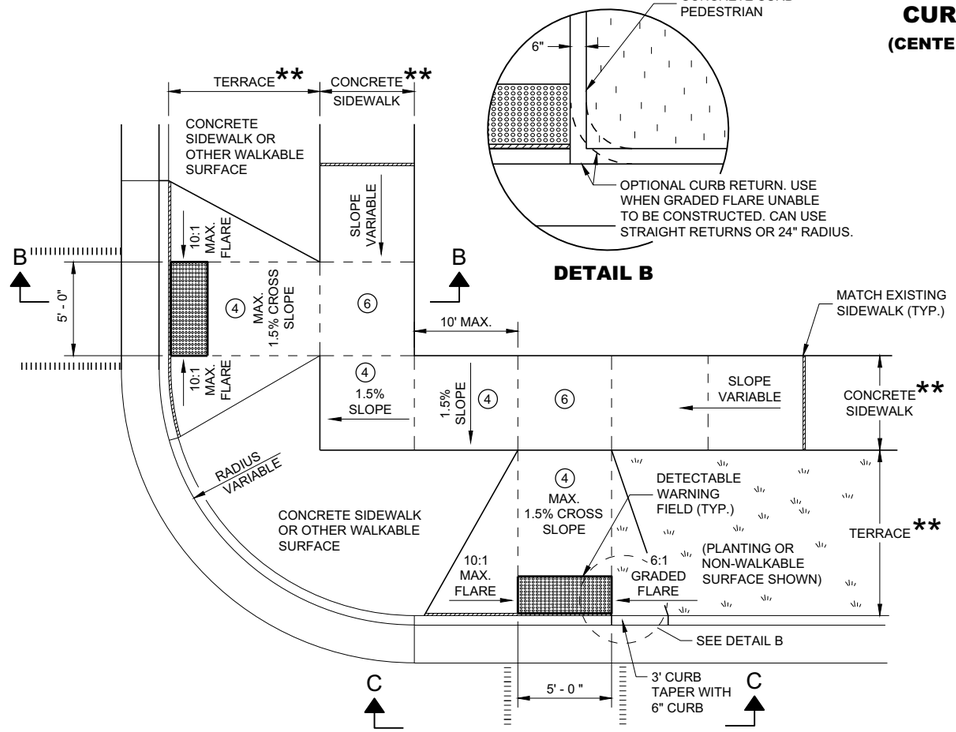
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

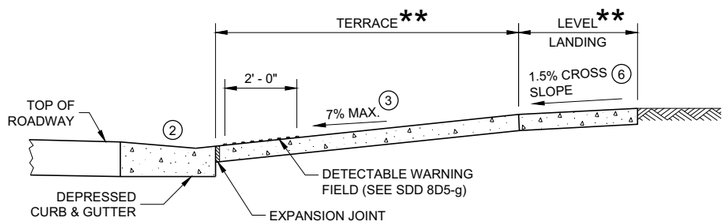
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS



DETAIL B

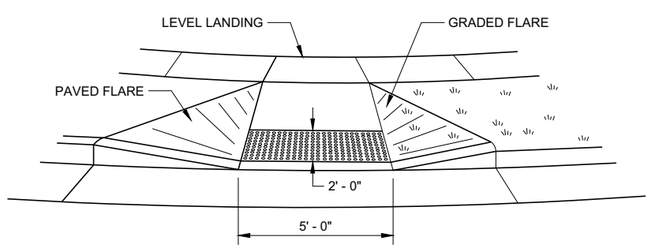
PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

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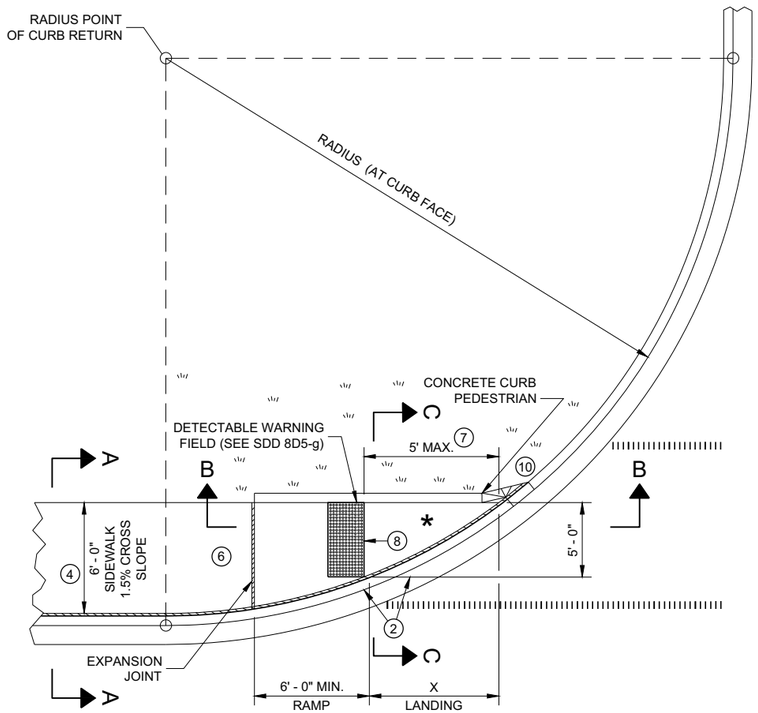
SDD 08D05 - 20b

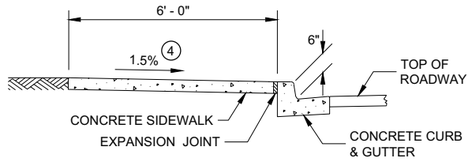


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

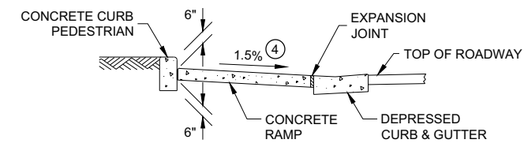
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

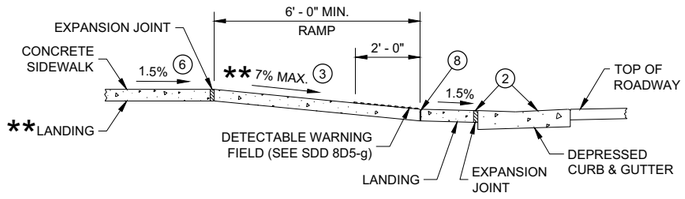
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



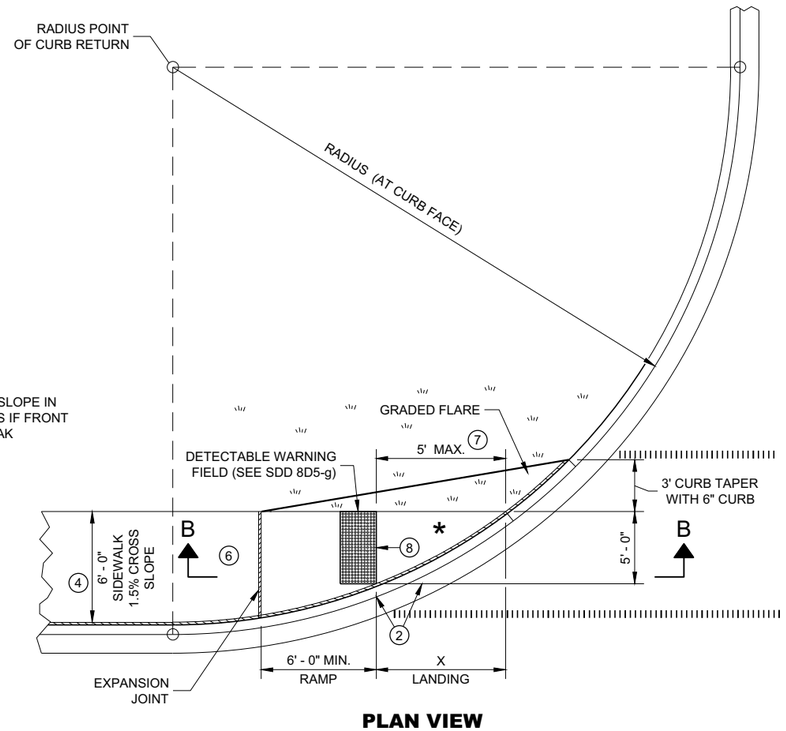
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

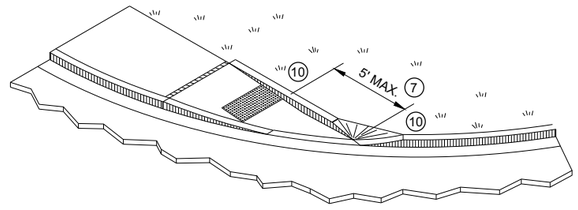
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

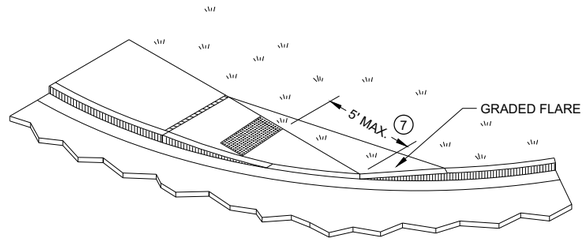


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



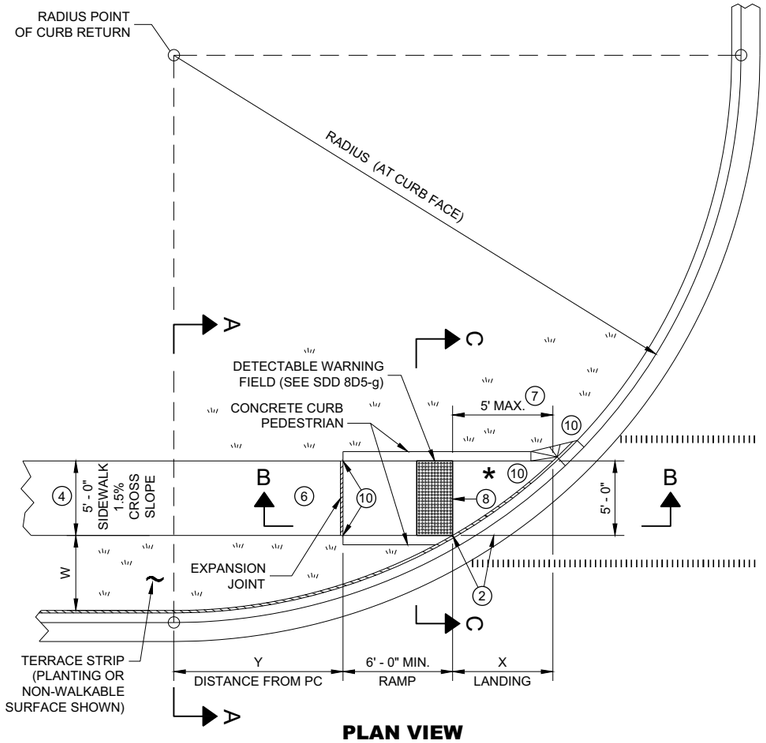
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c



PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

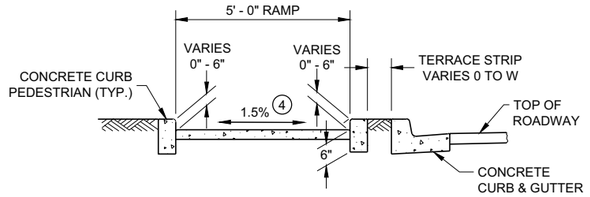
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

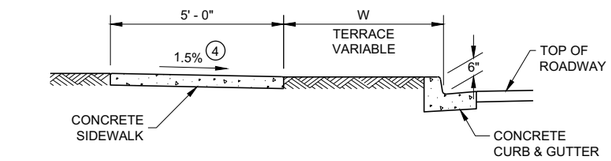
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

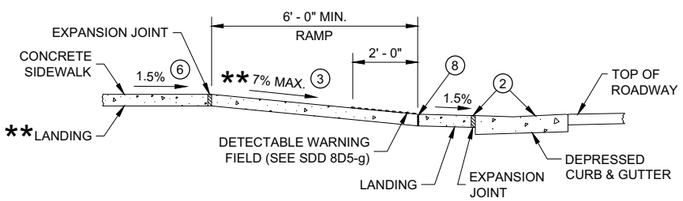
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



SECTION C - C FOR TYPE 4B



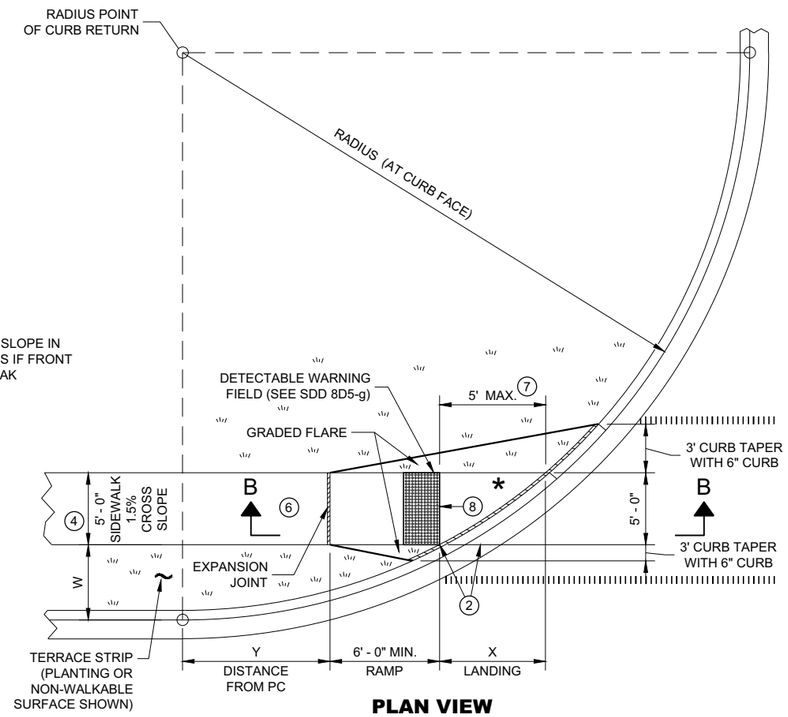
SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

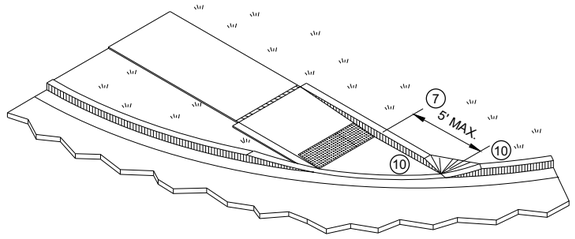
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

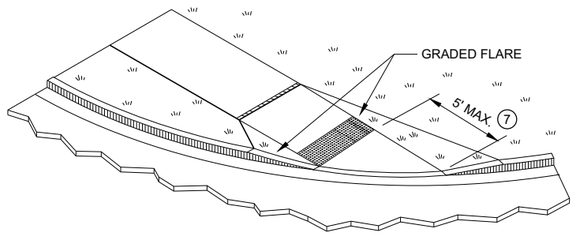


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



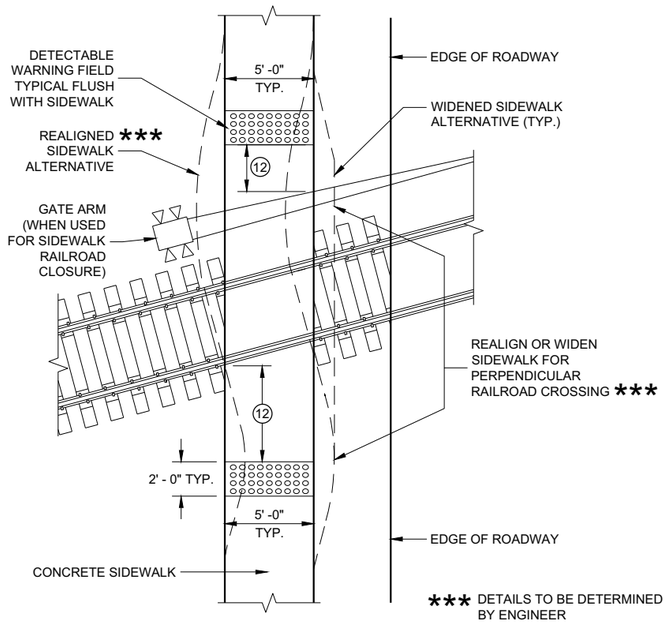
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

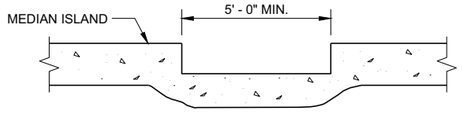
6

SDD 08D05 - 20d

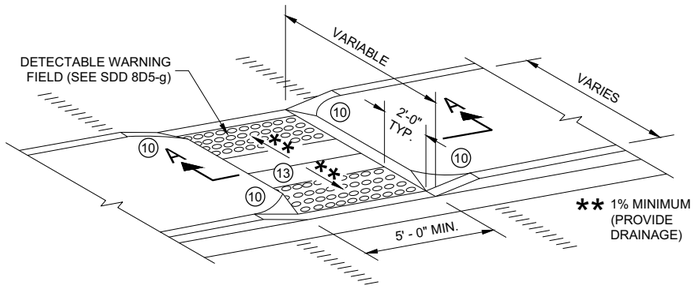


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

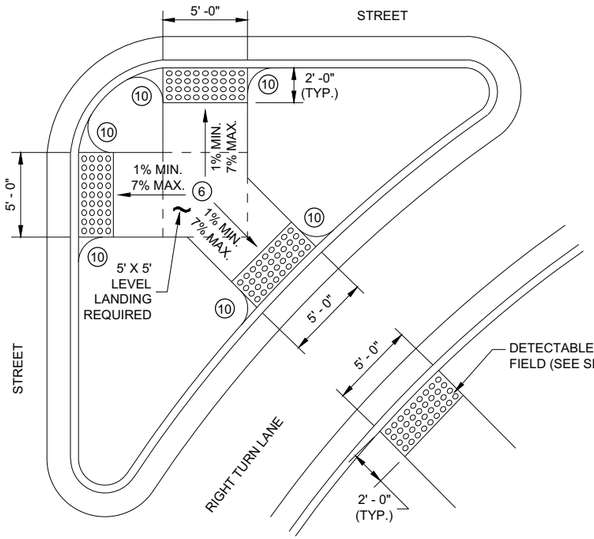
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

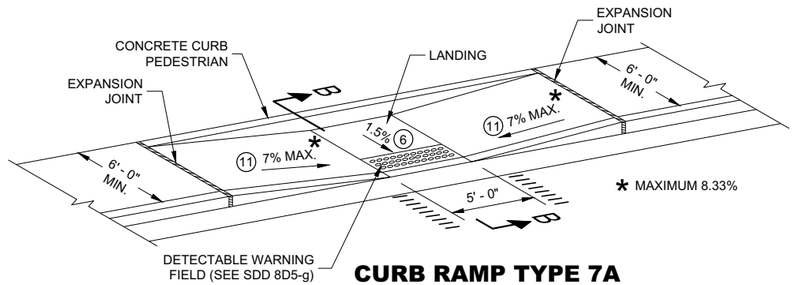
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

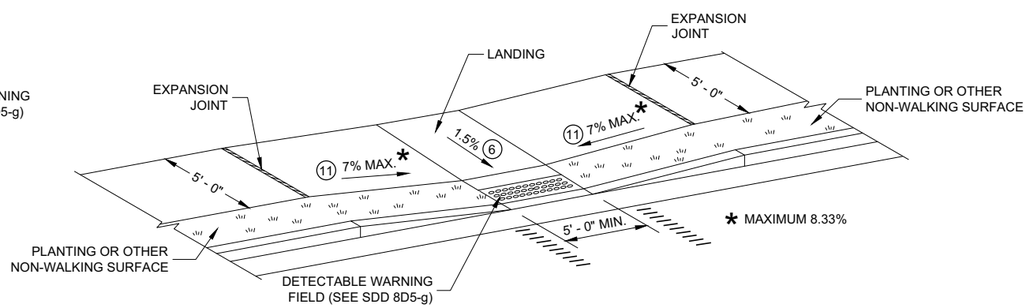
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

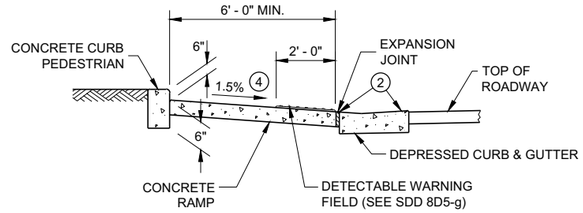
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
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SDD 08D05 - 20e

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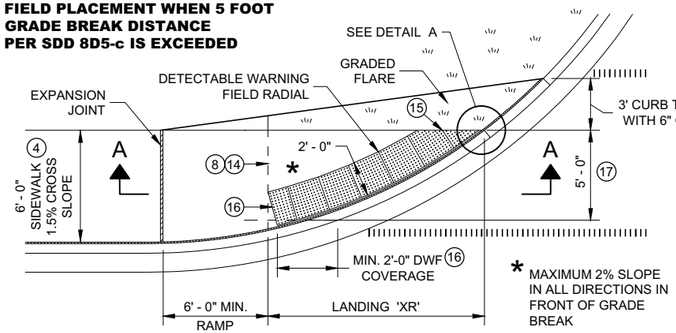
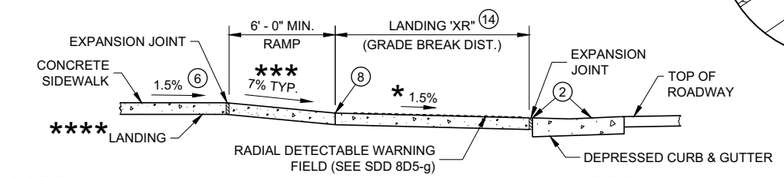
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

CURB RAMP TYPE 4A1

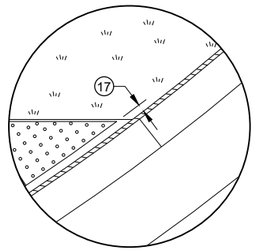
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1



DETAIL A

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

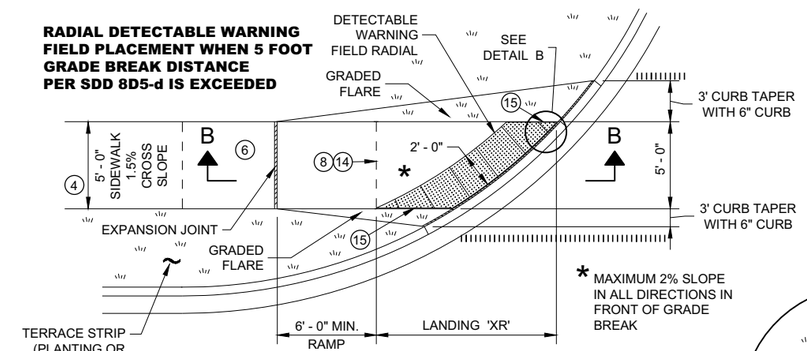
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

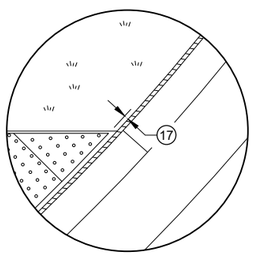
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



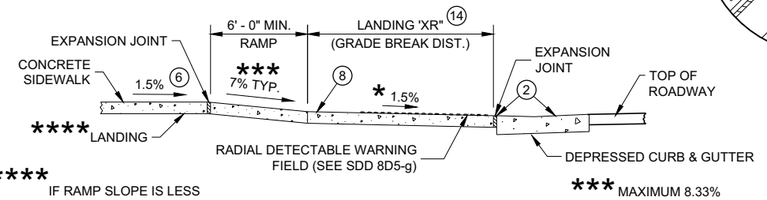
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B

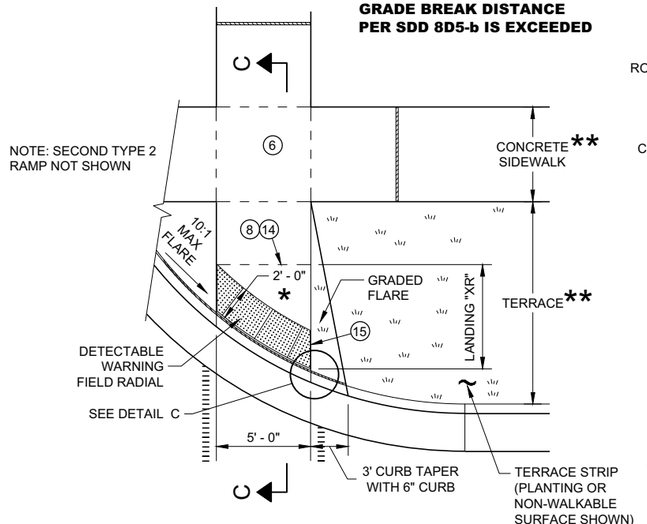


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

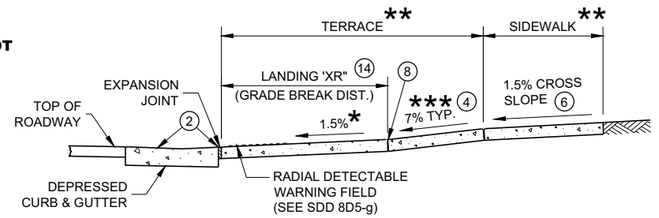


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

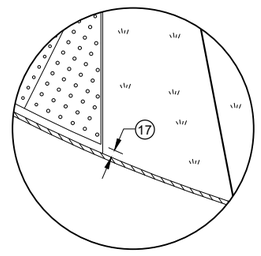


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
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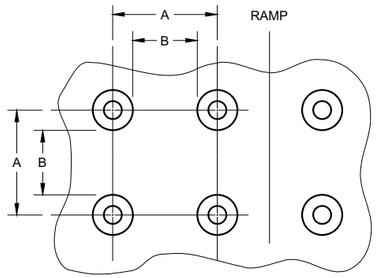
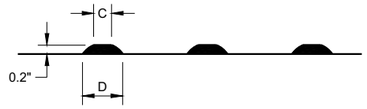
SDD 08D05 - 20f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

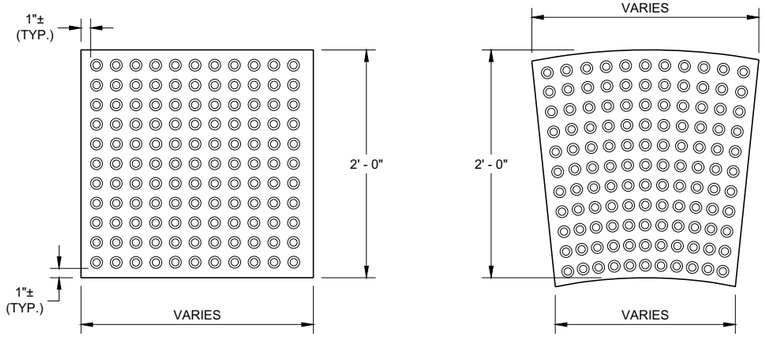


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

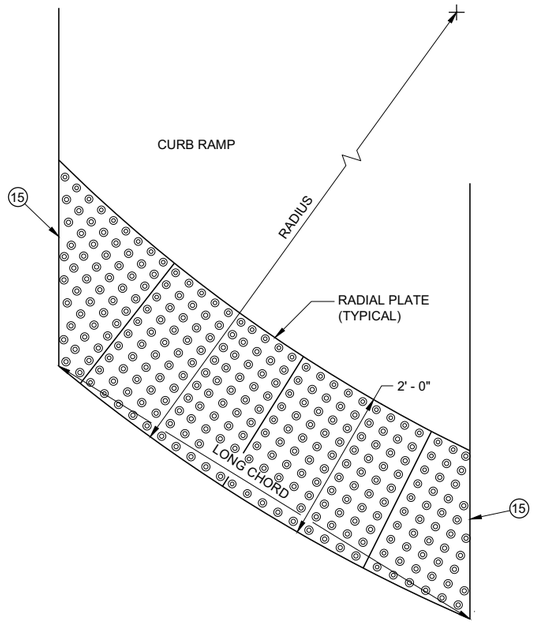
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

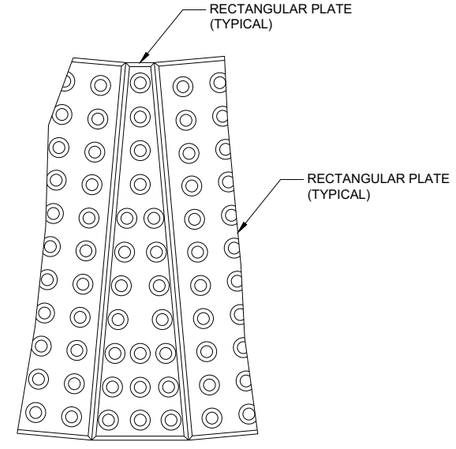
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

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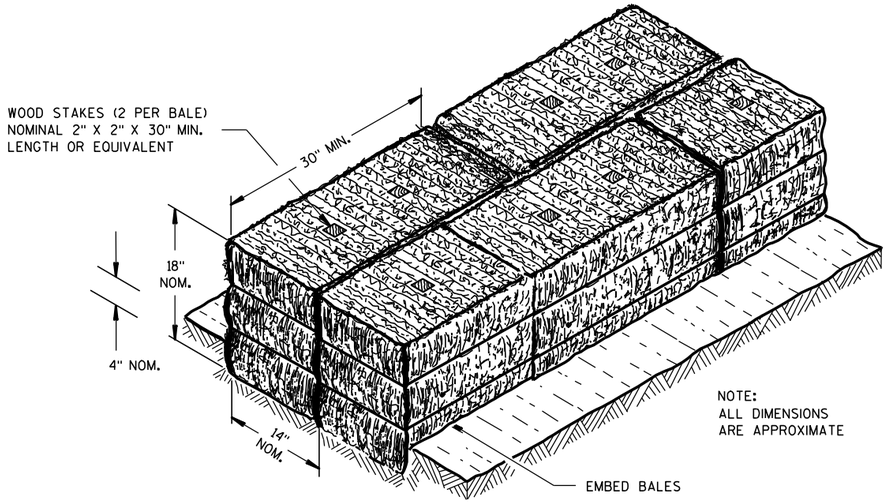
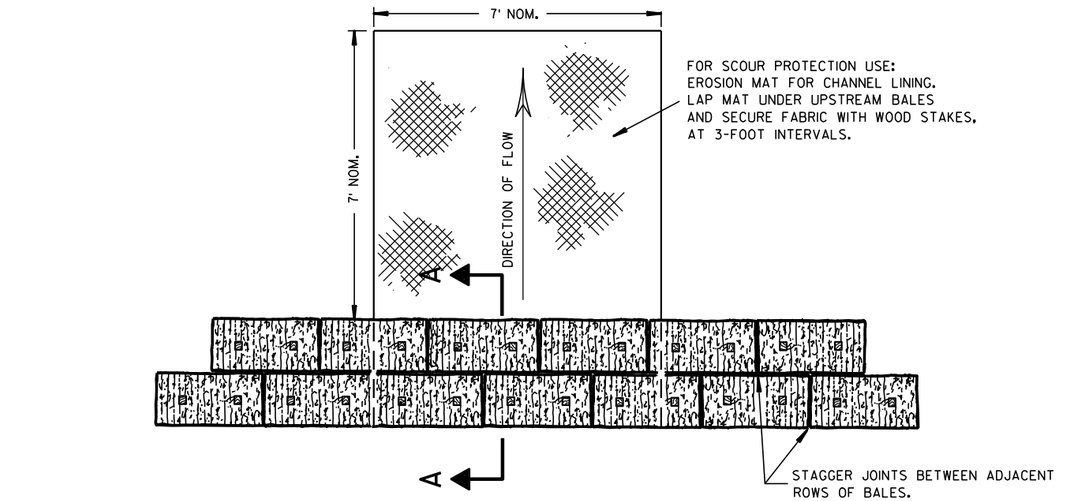
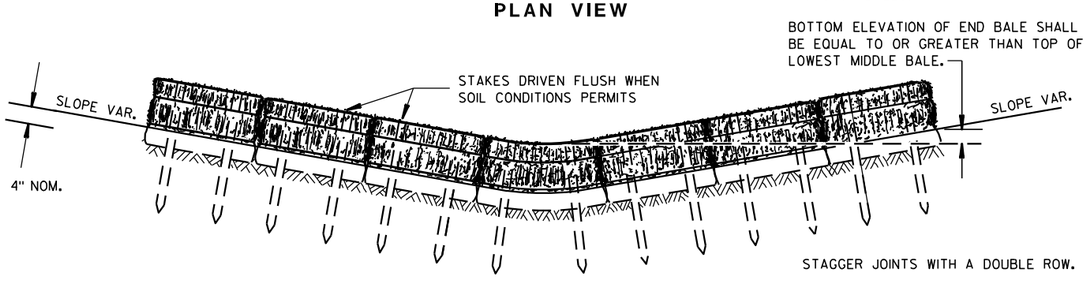
SDD 08D05 - 20g



SECTION A-A



PLAN VIEW



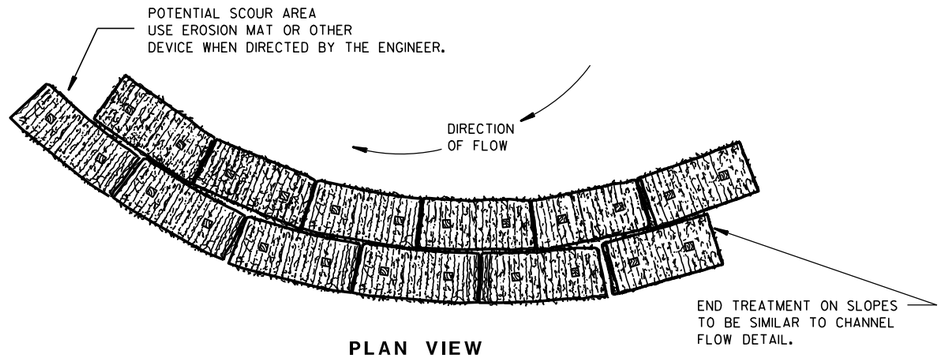
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

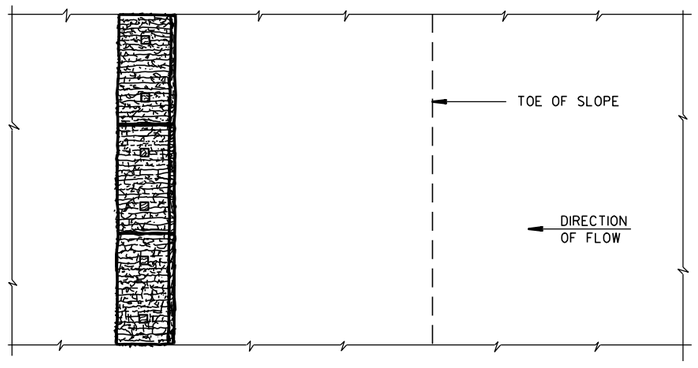
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

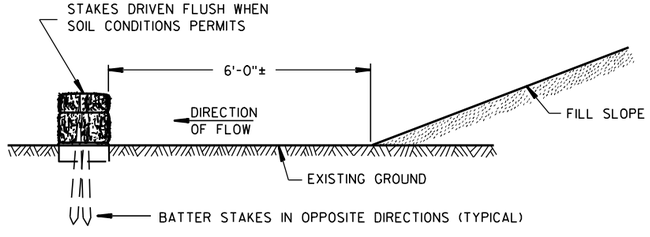


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

444

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S.D.D. 8 E 8-3

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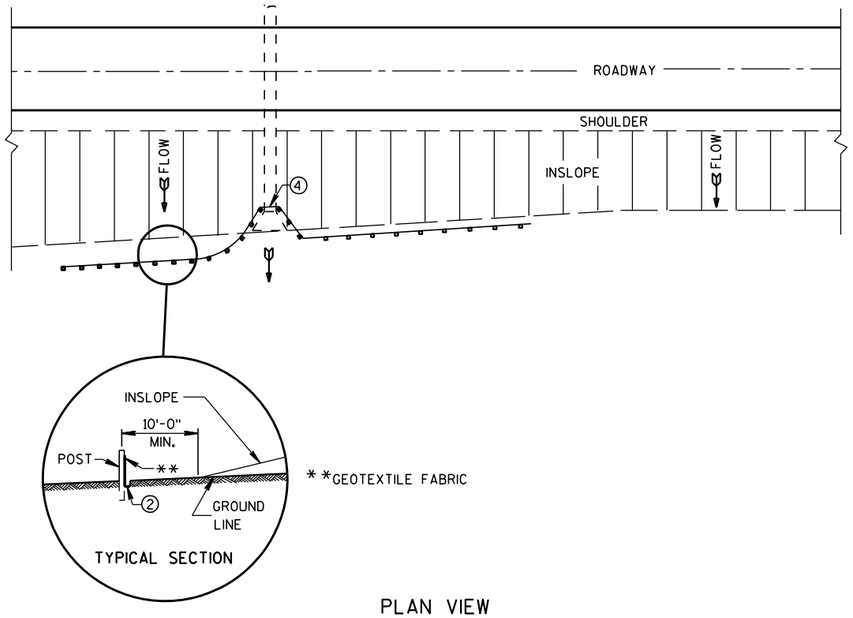
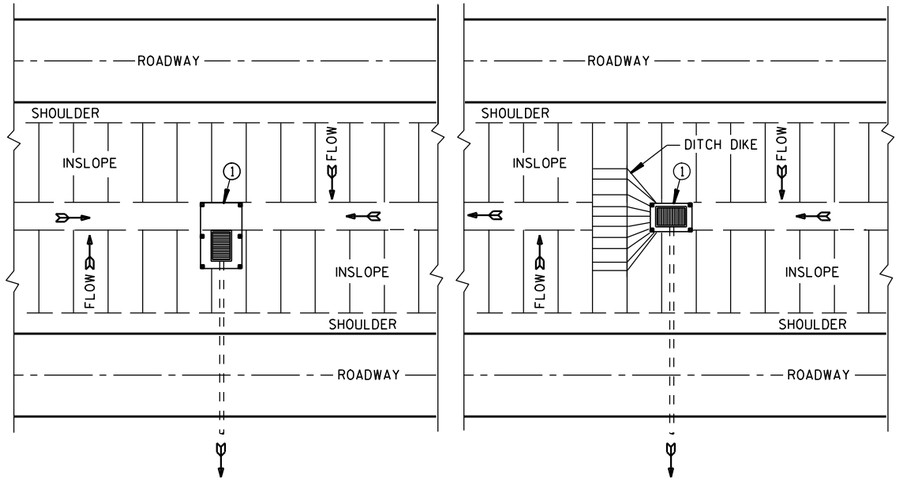
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



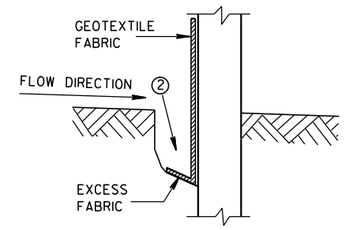
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

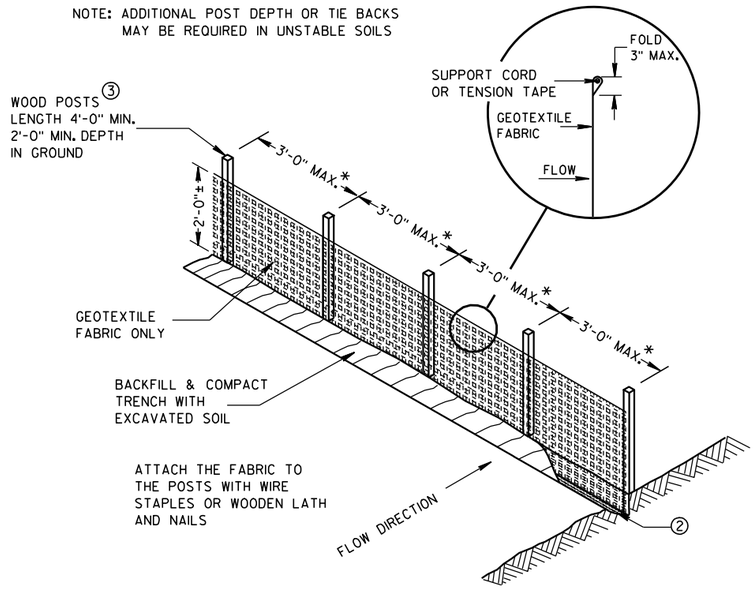
GENERAL NOTES

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

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

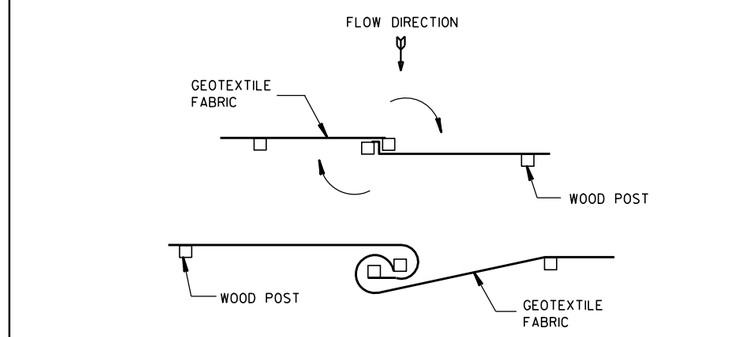


TRENCH DETAIL

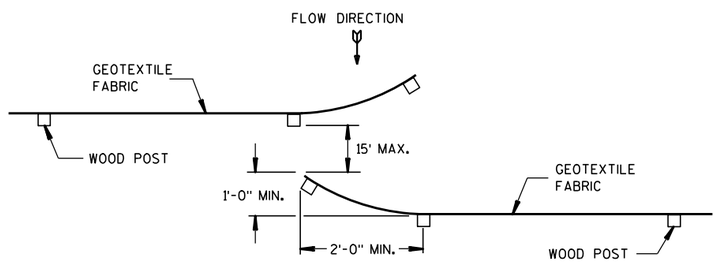


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

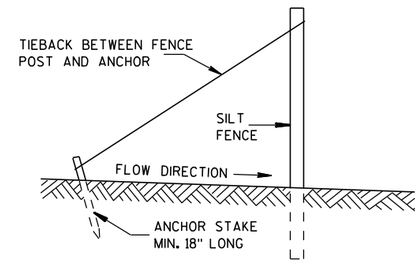


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

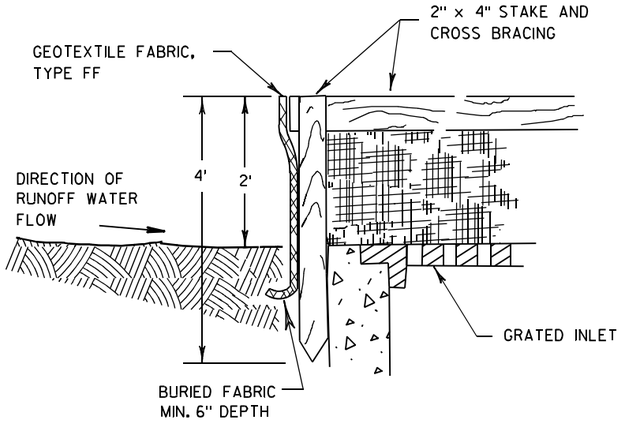
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

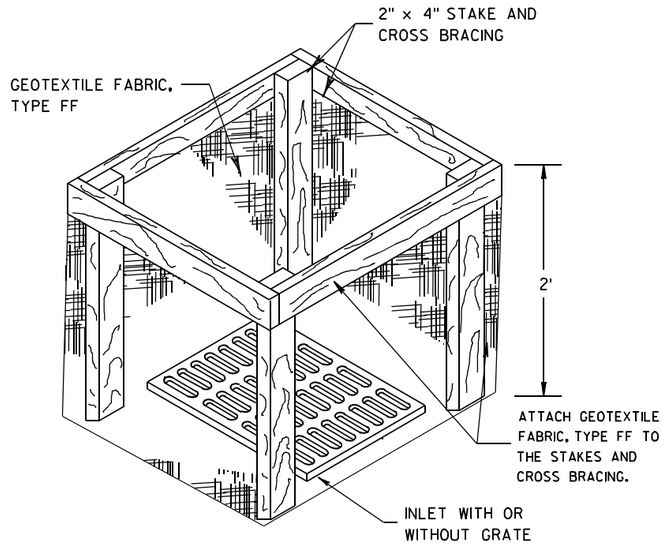
6

S.D.D. 8 E 9-6

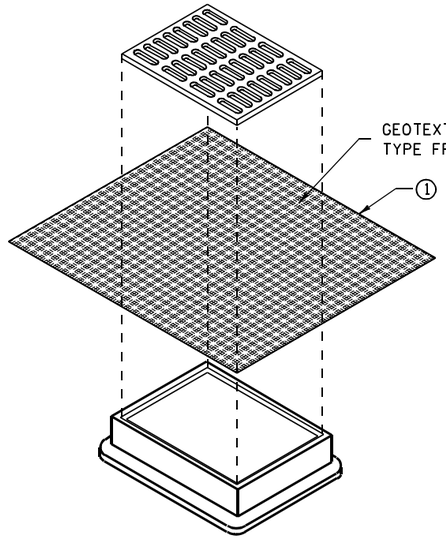
6

S.D.D. 8 E 9-6



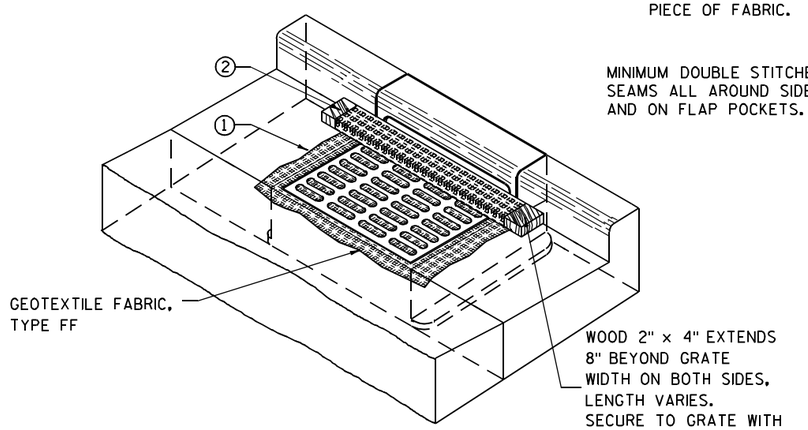


INLET PROTECTION, TYPE A

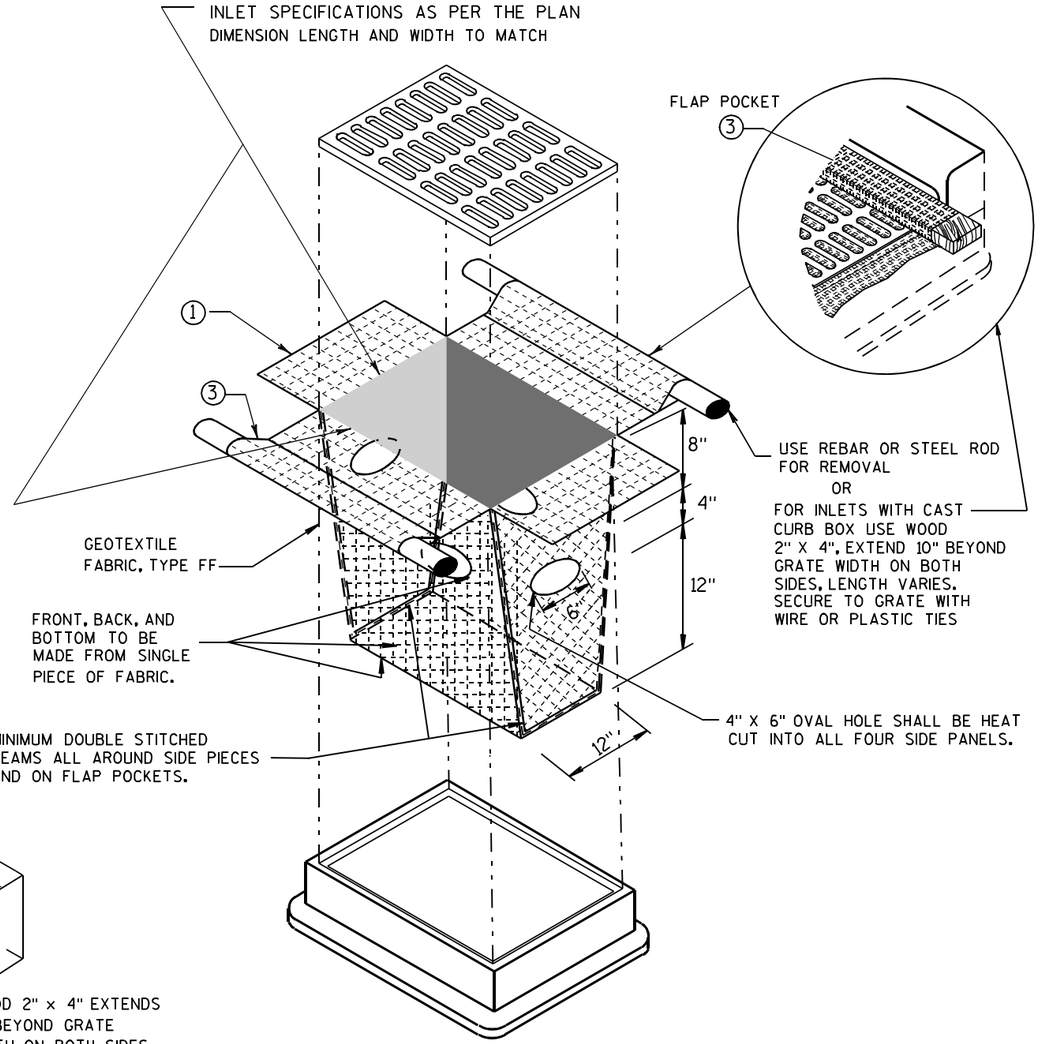


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

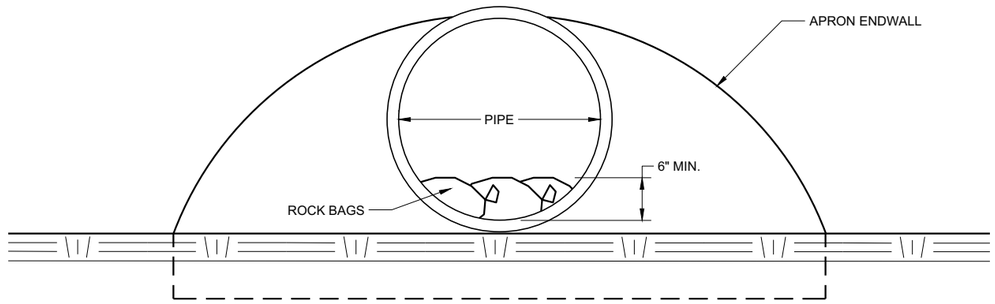
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE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

INLET PROTECTION
TYPE A, B, C, AND D

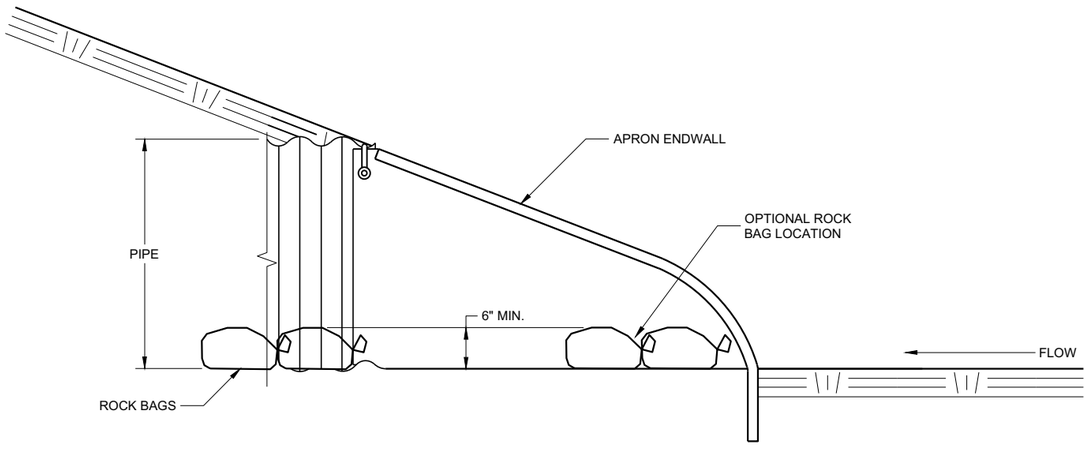
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

6

SDD 08E15 - 01

6

SDD 08E15 - 01

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2019
DATE

/S/ Daniel Schave
EROSION CONTROL ENGI

447

FHWA

METAL APRON ENDWALLS

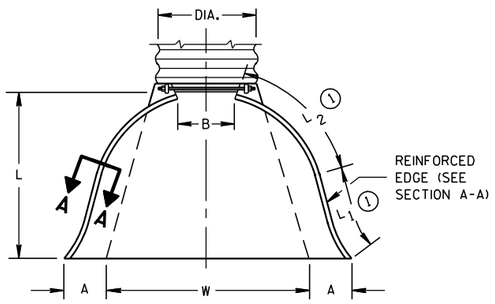
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

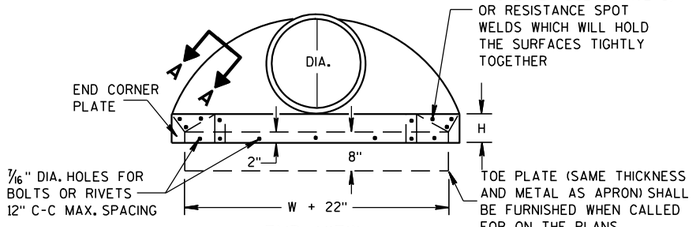
REINFORCED CONCRETE APRON ENDWALLS

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

*MINIMUM
**MAXIMUM



PLAN VIEW



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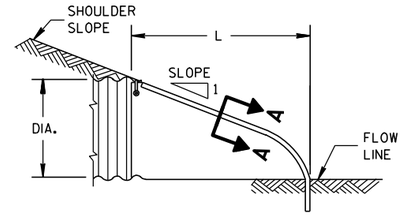
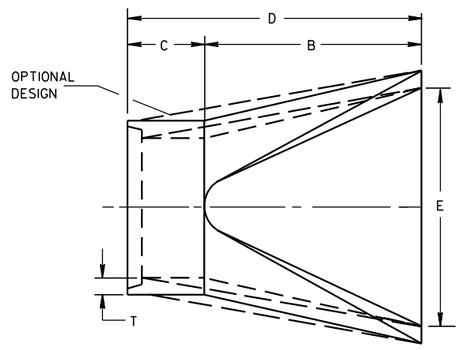
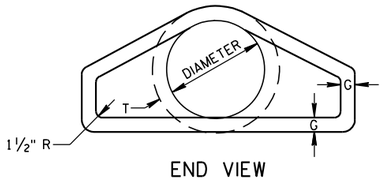


SIDE ELEVATION

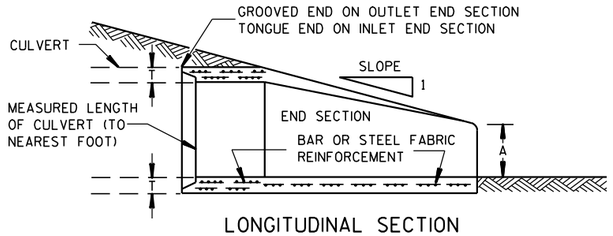
METAL ENDWALLS



PLAN

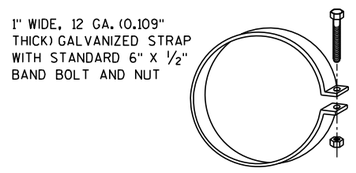


END VIEW



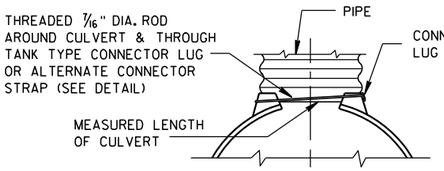
LONGITUDINAL SECTION

CONCRETE ENDWALLS

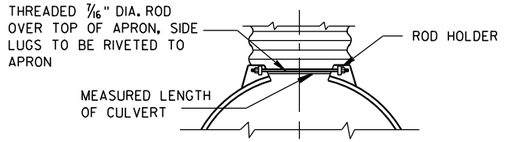


ALTERNATE FOR TYPE 1 CONNECTION

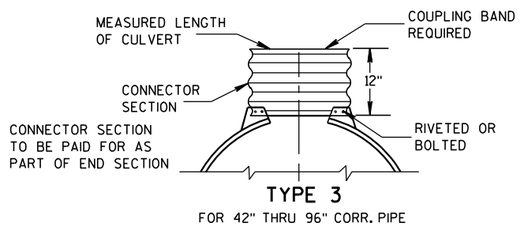
END SECTION CONNECTOR STRAP



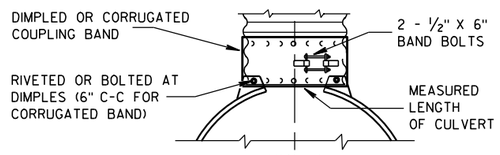
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

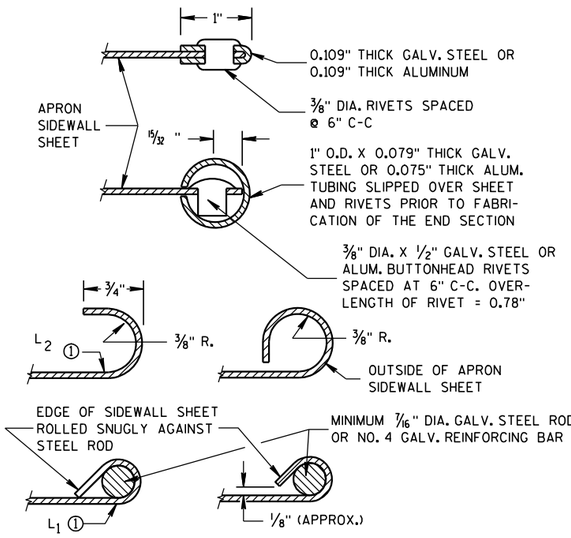
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

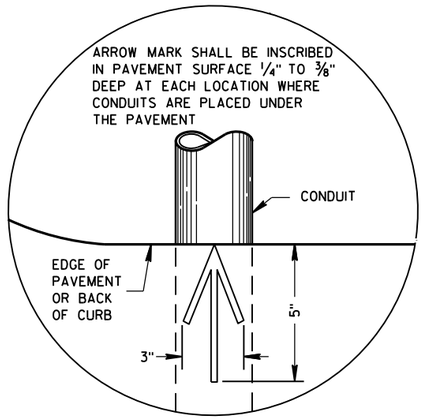
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

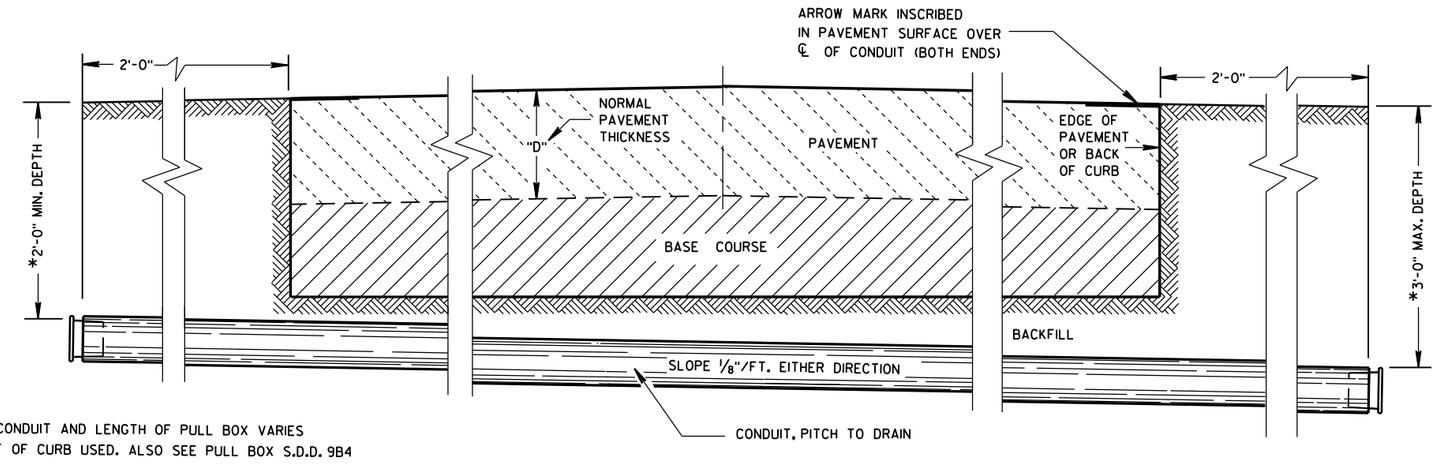
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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



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

6

S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		NON-CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 1/2	22 1/2
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

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

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

GENERAL NOTES

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

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

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN 1/4".

COVER SHALL BE MAGNETICALLY LOCATABLE.

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

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

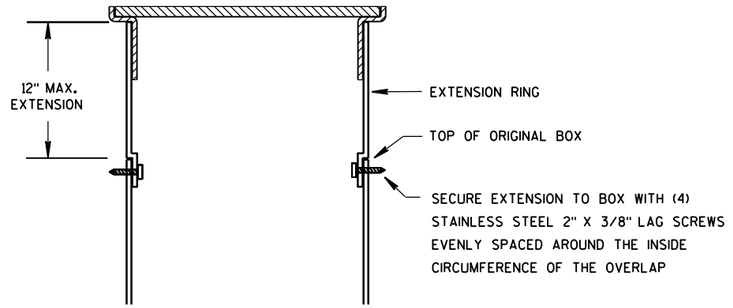
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

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

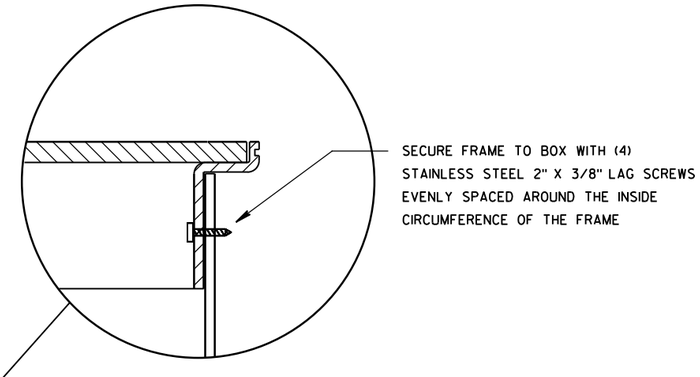
ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

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

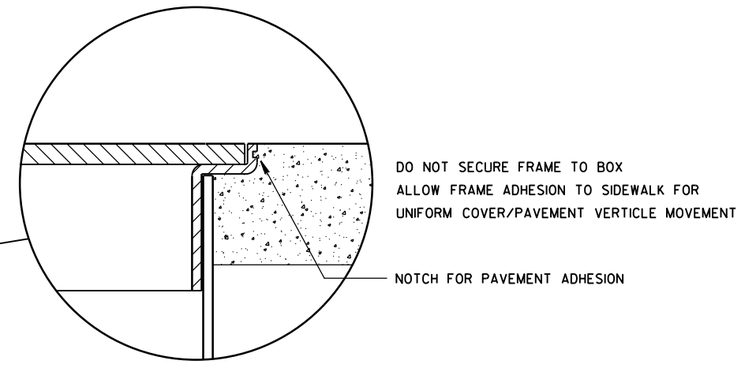
LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.



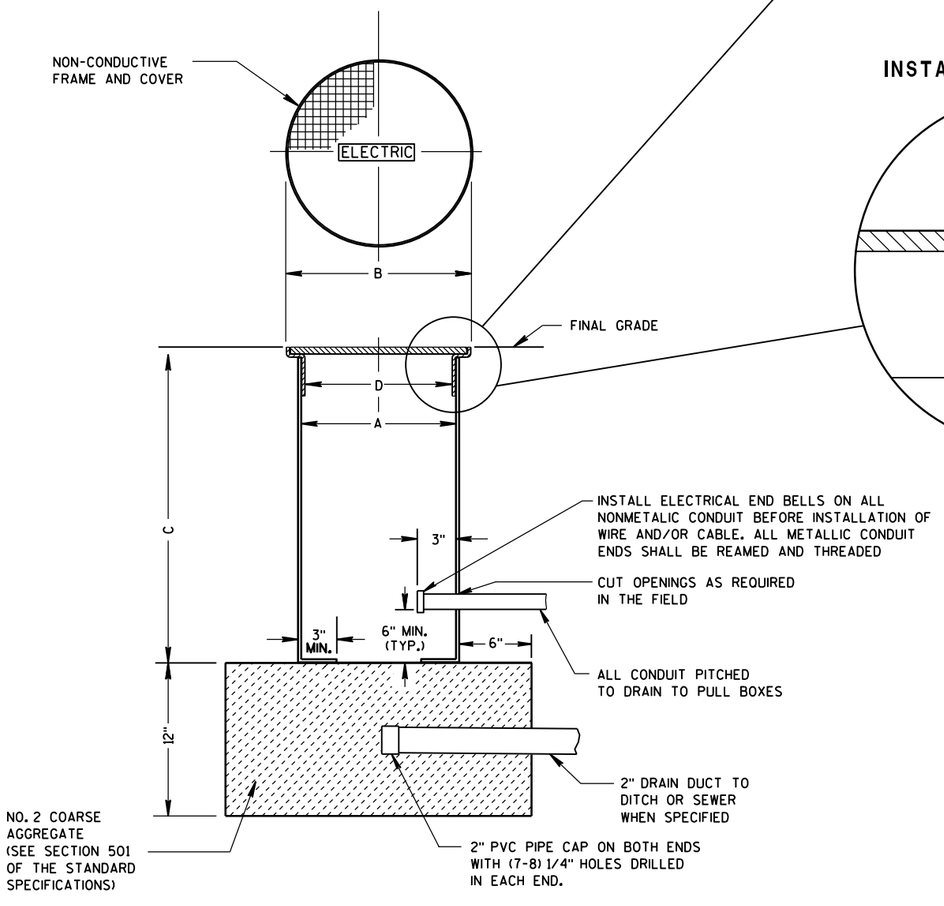
BOX EXTENSION



INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



NON-CONDUCTIVE PULL BOX

PULL BOX
NON-CONDUCTIVE

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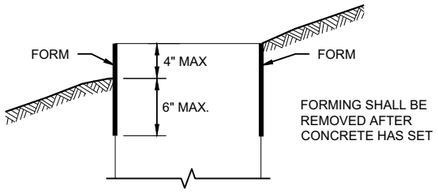
FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



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.

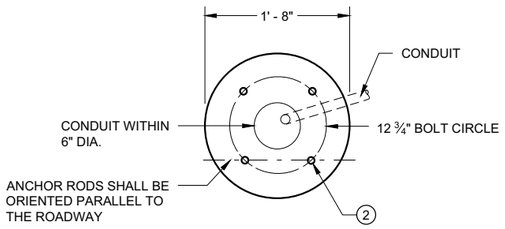
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

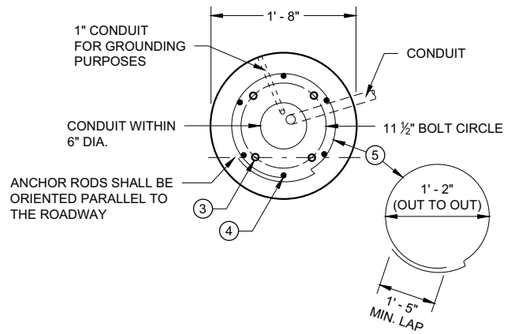
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

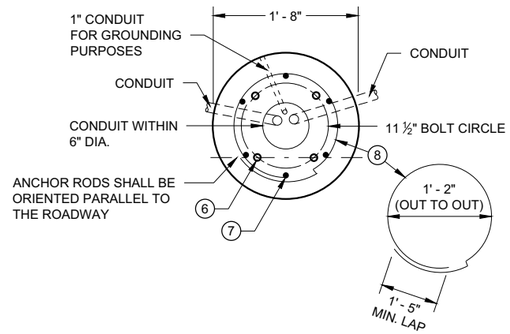
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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

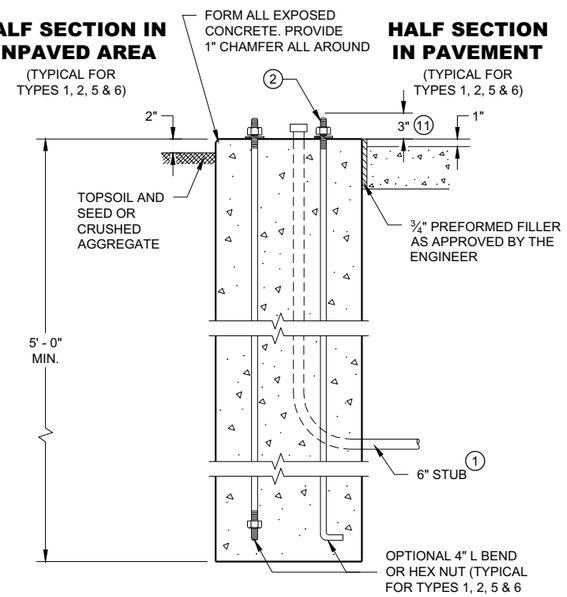
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

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.

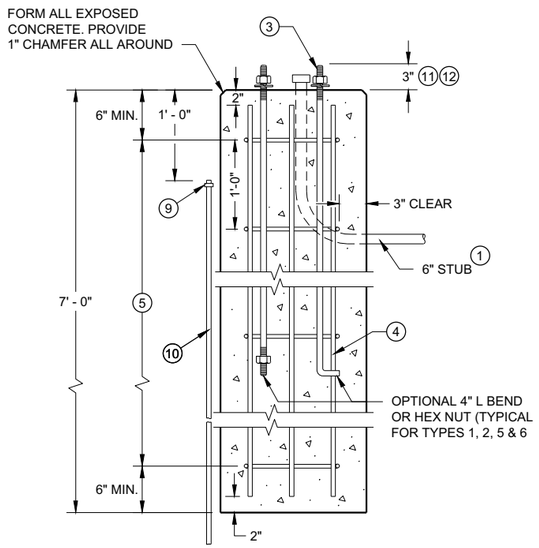
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

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

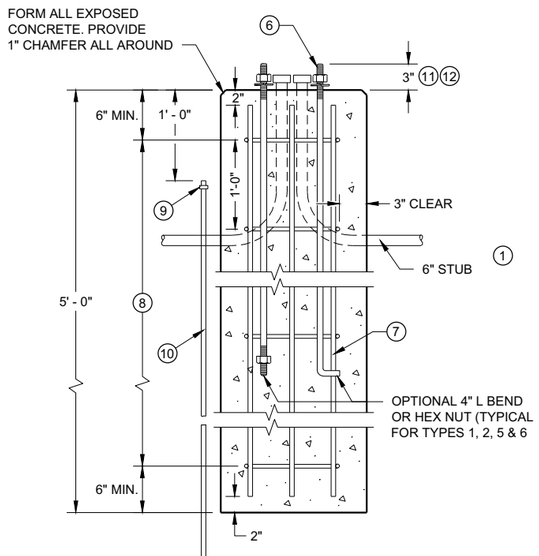
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
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May 2019
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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.

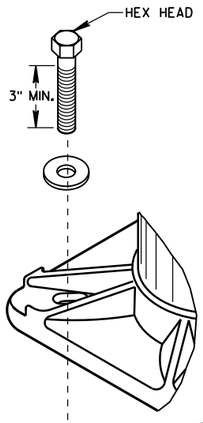
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

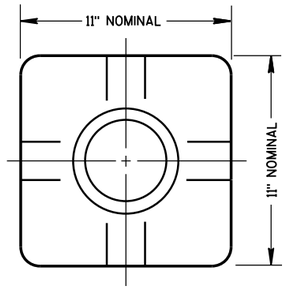
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

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

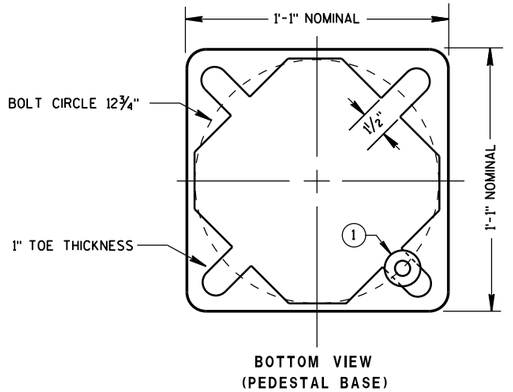
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

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

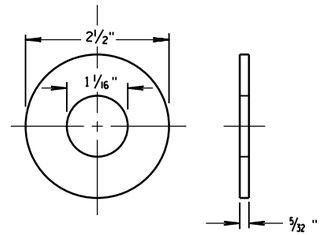




TOP VIEW
(PEDESTAL BASE)

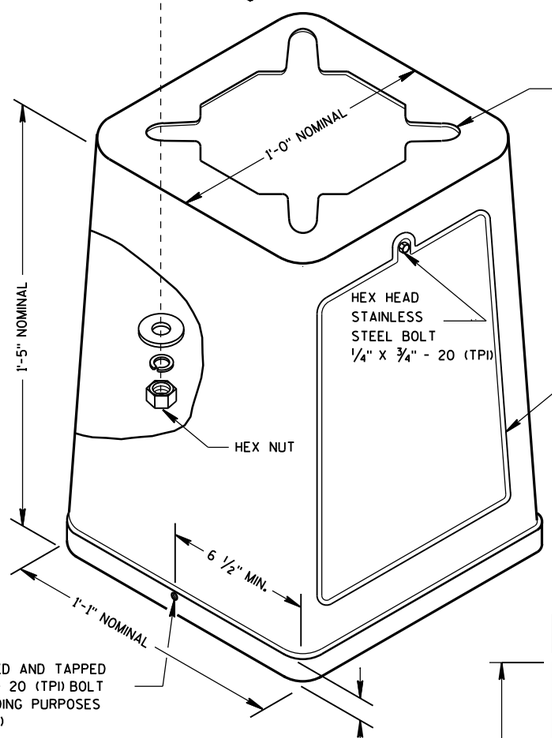


BOTTOM VIEW
(PEDESTAL BASE)

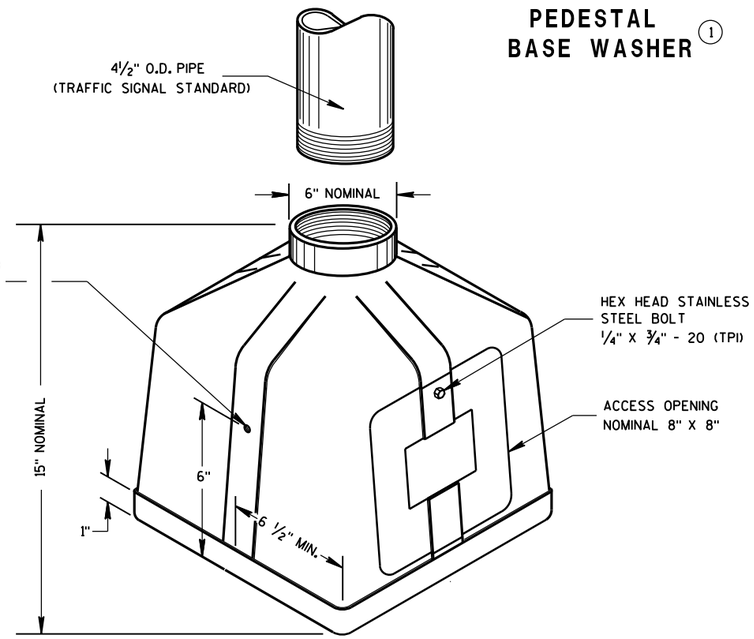


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

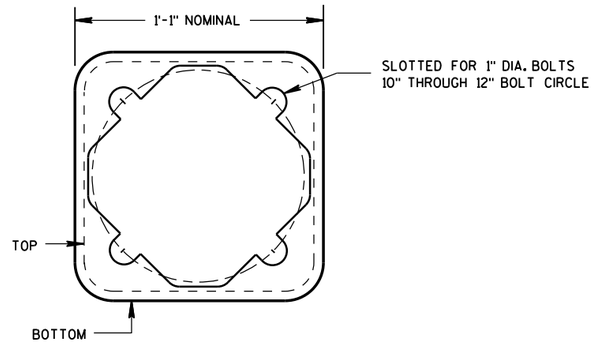
PEDESTAL BASE WASHER (1)



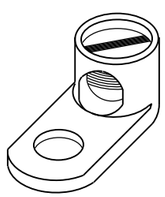
ISOMETRIC VIEW



ISOMETRIC VIEW
PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

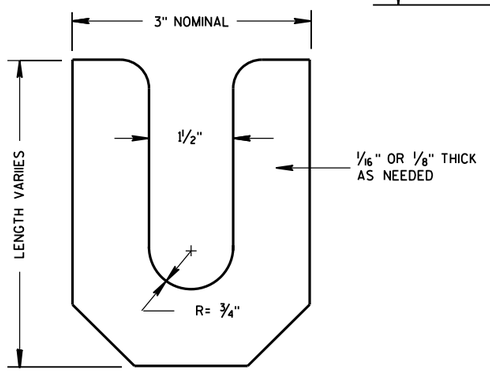


TYPICAL MECHANICAL CONNECTOR LUG

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
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Sept. 2014 — DATE
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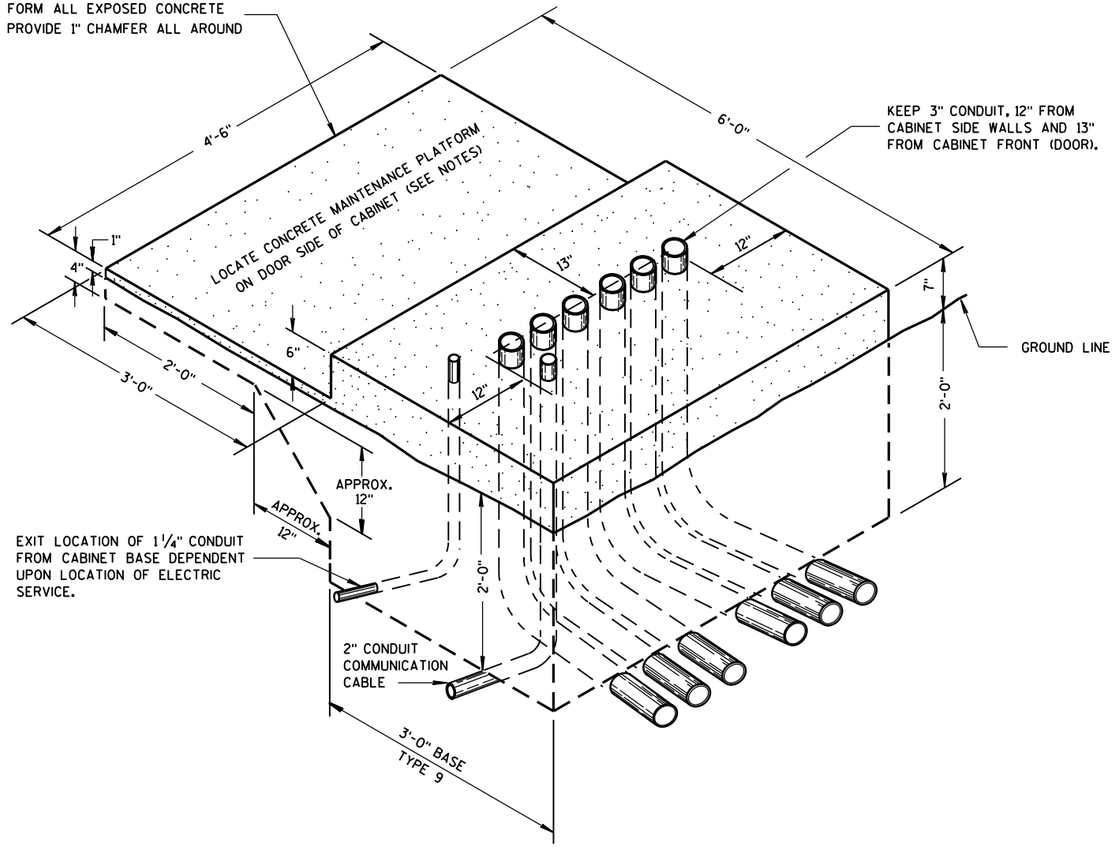
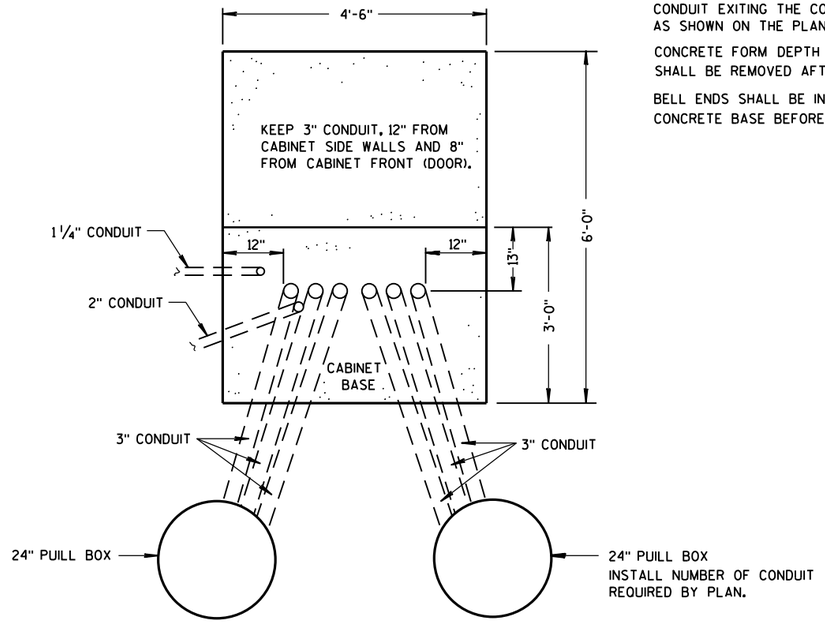


ISOMETRIC VIEW

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
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Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 453
FHWA

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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 AT THE ENTRANCE OF THE BASE.

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

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

WHEN REQUIRED TO CONNECT NONMETALLIC 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).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL 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.

ANCHOR RODS SHALL BE 1" X 60".

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.

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

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

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

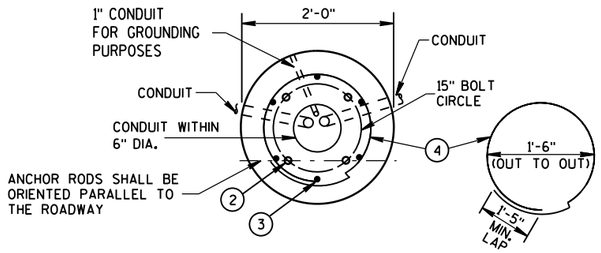
BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(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 BY THE ENGINEER.

(2) (4) 1" DIA. X 5'-0" ANCHOR RODS.

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

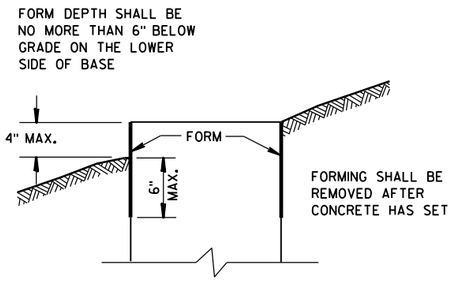
(4) (7) NO. 4 X 6'-2" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



CONCRETE BASE, TYPE 7 (FOR 40' LIGHT POLES)

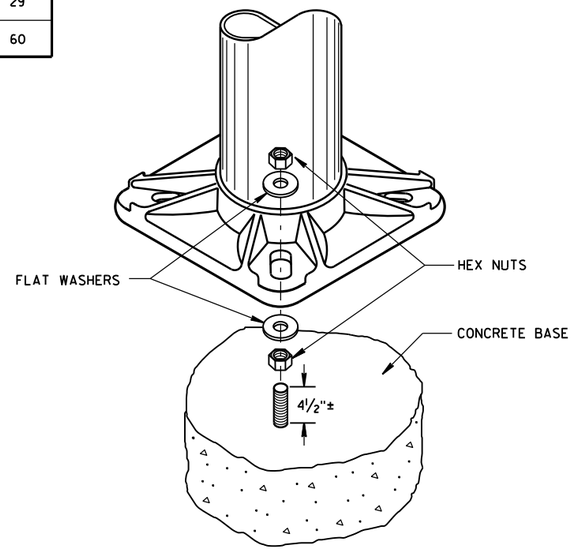
* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.



FORMING DETAIL

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	0.8
LBS. OF HOOP BAR STEEL	29
LBS. OF VERTICAL BAR STEEL	60



NON-BREAKAWAY INSTALLATION (LEVELING NUT)

CONCRETE BASE, TYPE 7

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 454
FHWA

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S.D.D. 9 C 8-5

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S.D.D. 9 C 8-5

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL 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 AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS 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 AT THE ENTRANCE OF THE BASE.

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

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

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. CONDUIT 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.

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

WHEN REQUIRED TO CONNECT NONMETALLIC 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).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL 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.

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

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

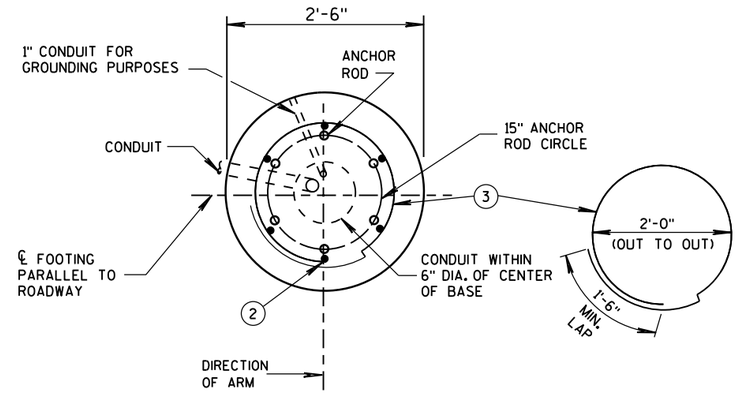
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

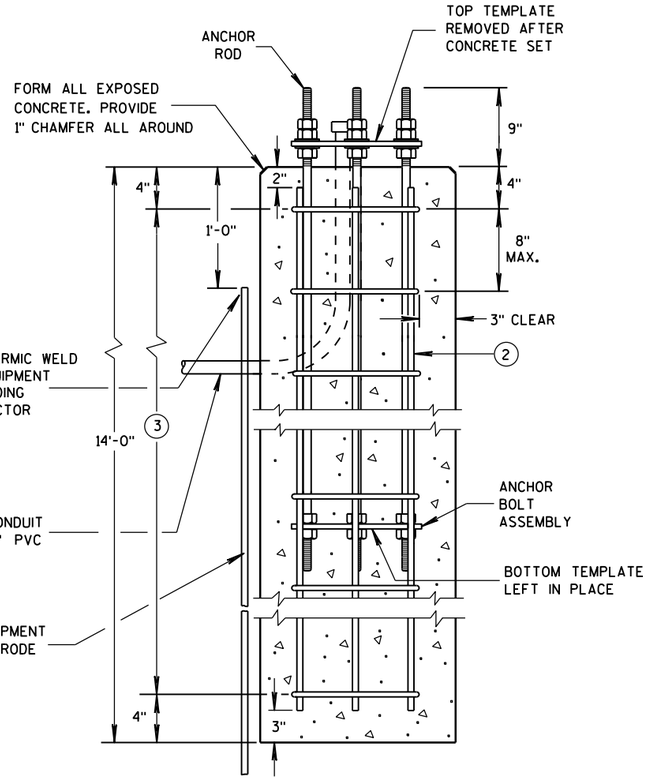
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES. (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

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

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

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

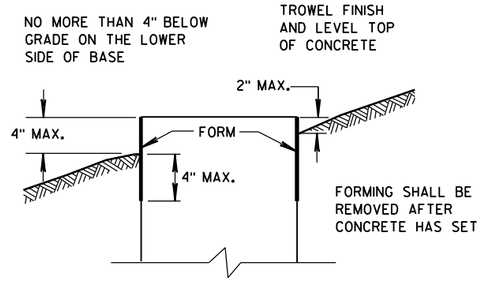




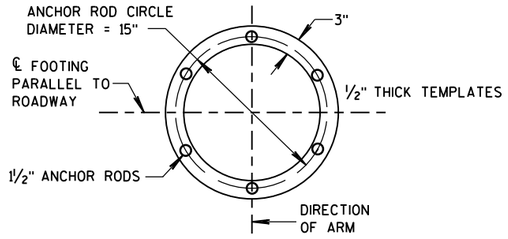
CONCRETE BASE TYPE 10

(FOR TYPE 9 & 10 & OVER HEIGHT (OH) POLES)

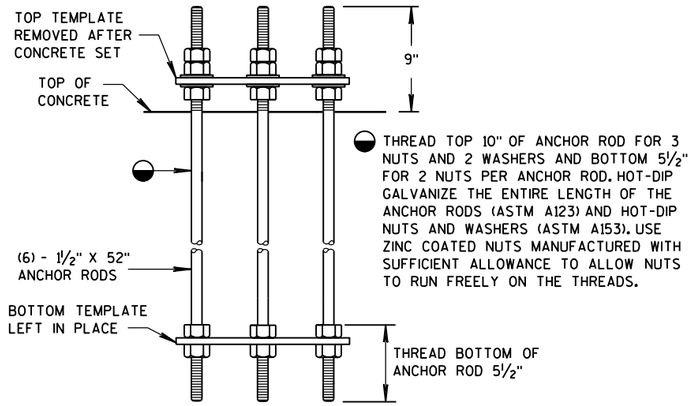
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY

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

CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2017 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL

FHWA

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S.D.D. 9 C 11-10

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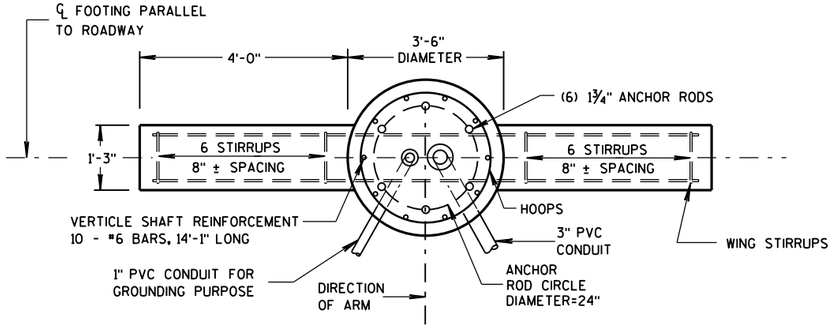
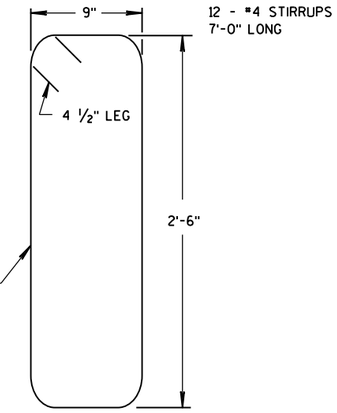
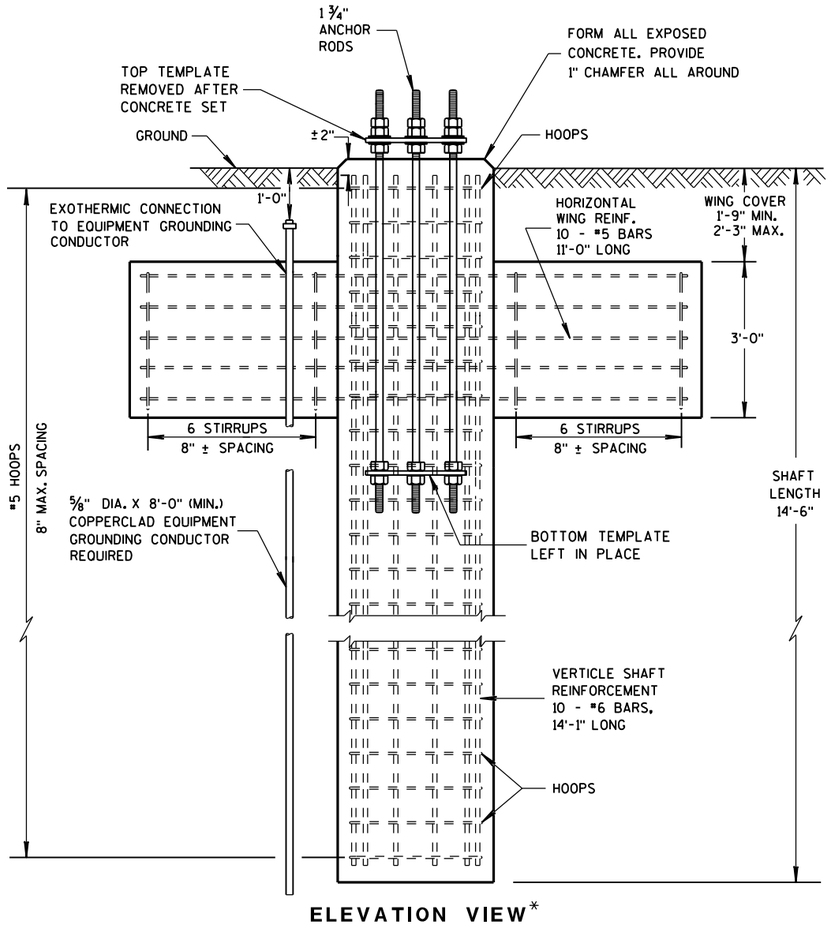
S.D.D. 9 C 11-10



PLAN VIEW

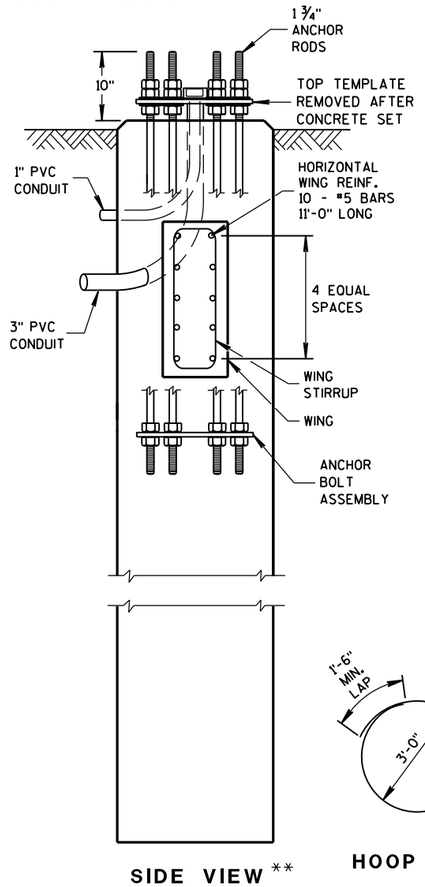


WING STIRRUP



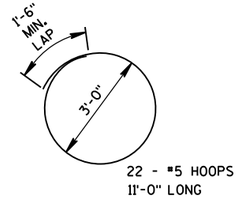
ELEVATION VIEW*

* 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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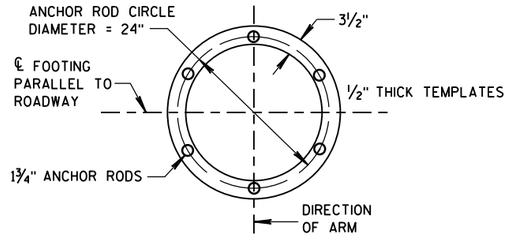
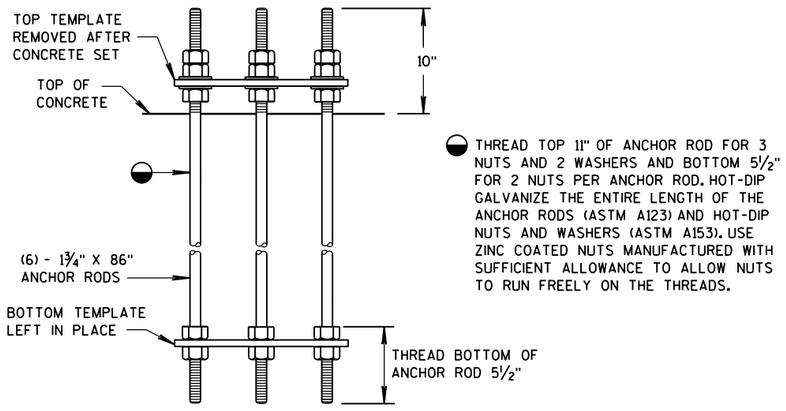
S.D.D. 9 C 12-9a

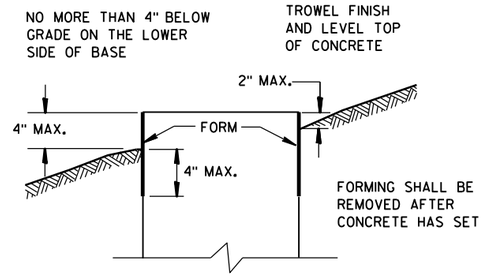


TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 13 ANCHOR ASSEMBLY



FORMING DETAIL

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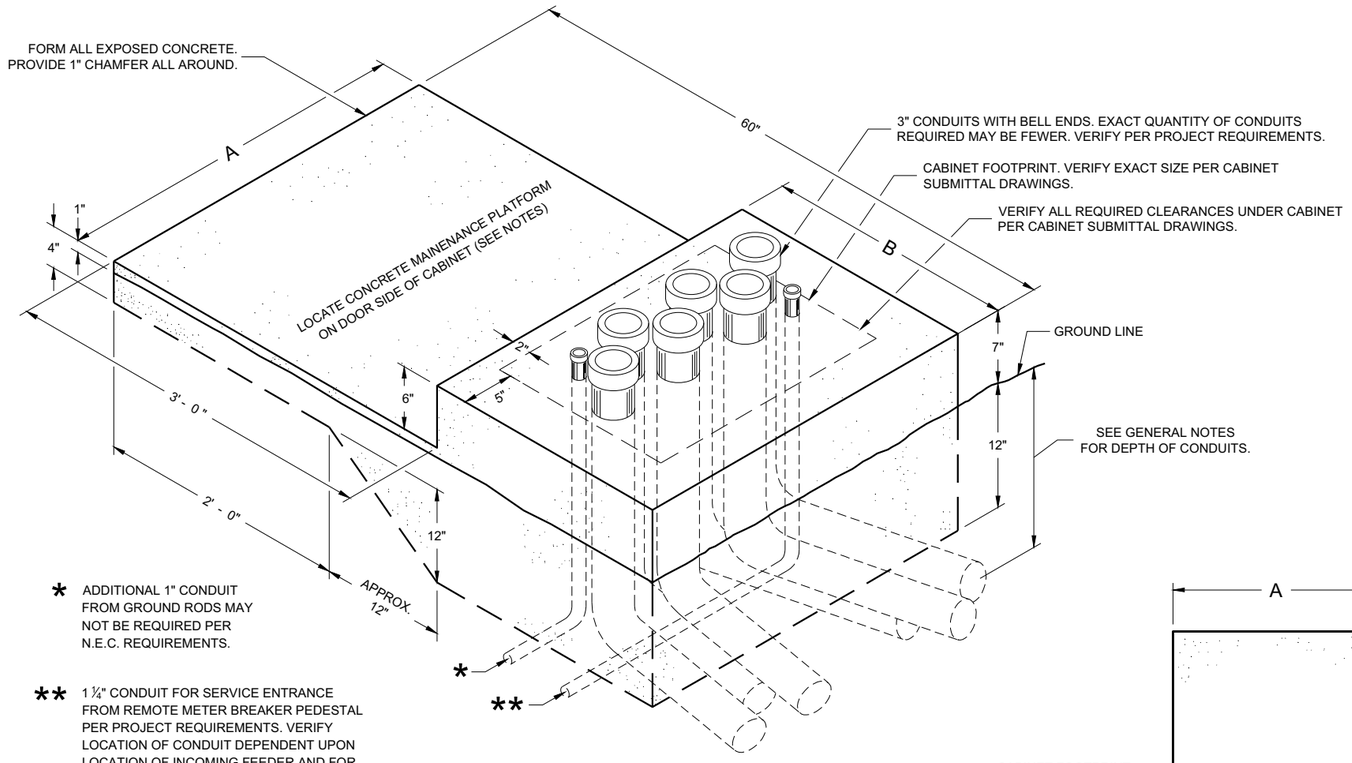
CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

S.D.D. 9 C 12-9b



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

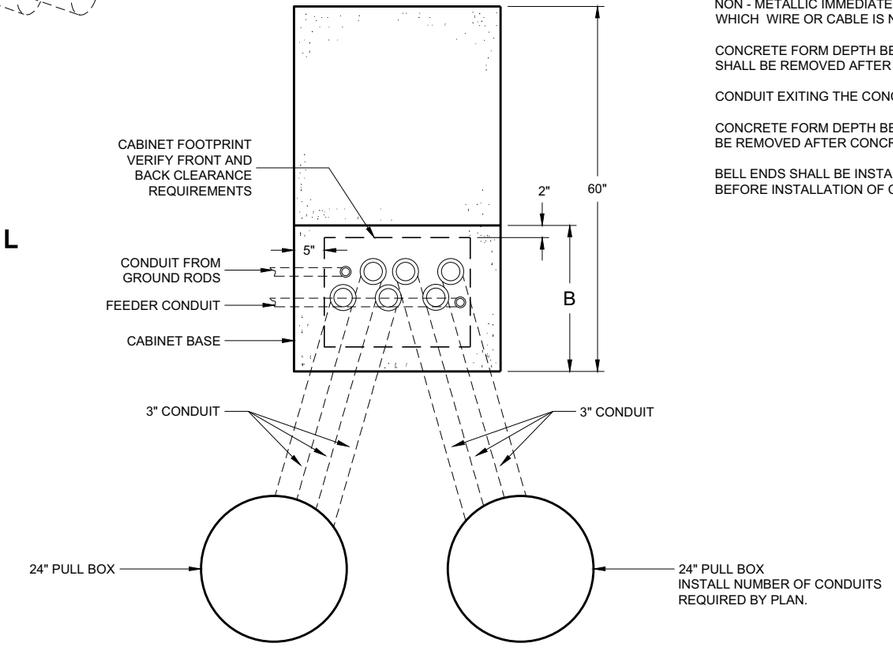
** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

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

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

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

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

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

LOCATIONS SHALL BE AS SHOWN ON THE PLANS UNLESS DETERMINED BY THE ENGINEER IN THE FIELD.

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

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

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

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

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

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

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

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

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCH 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 L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 458

FHWA

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SDD 09C14 - 03

SDD 09C14 - 03

GENERAL NOTES

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

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

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

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

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

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

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

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

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

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

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

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

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

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

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

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

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

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

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

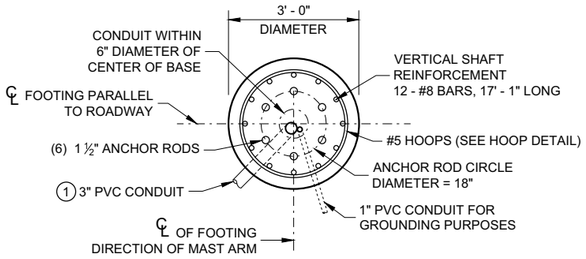
A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

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

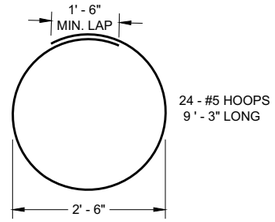
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

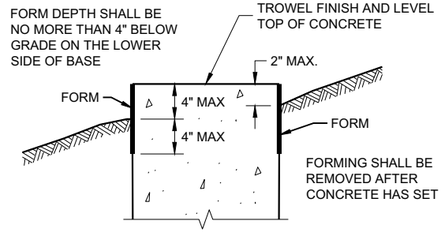
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION).....fy = 55,000 p.s.i.
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



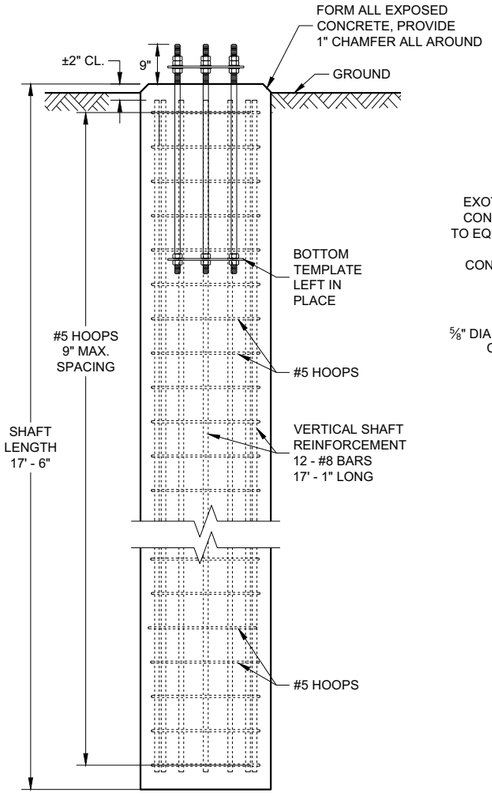
PLAN VIEW



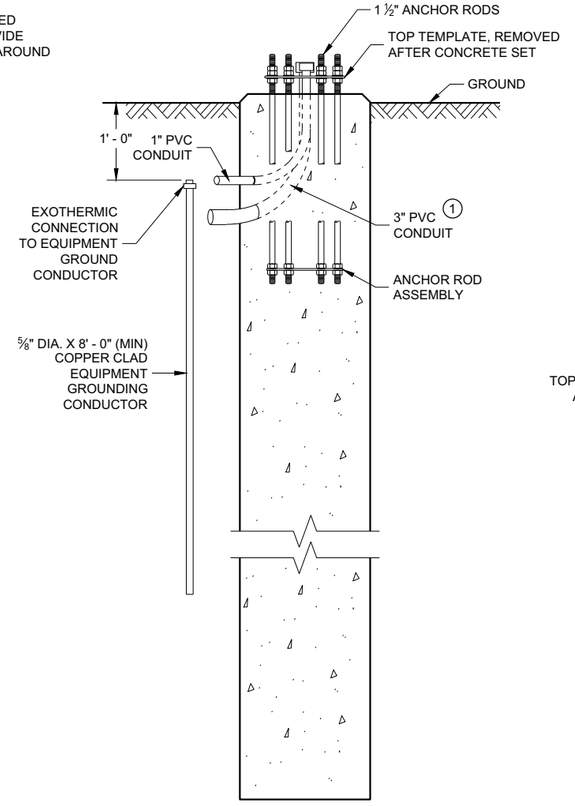
HOOP DETAIL



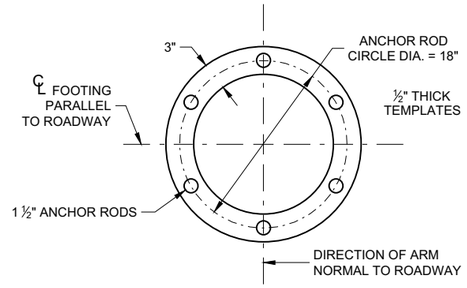
FORMING DETAIL



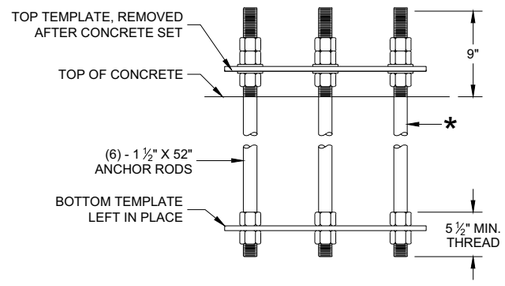
ELEVATION VIEW
(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)



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



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

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

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

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

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

CONCRETE BASE TYPE 10 SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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SDD 09C15 - 01

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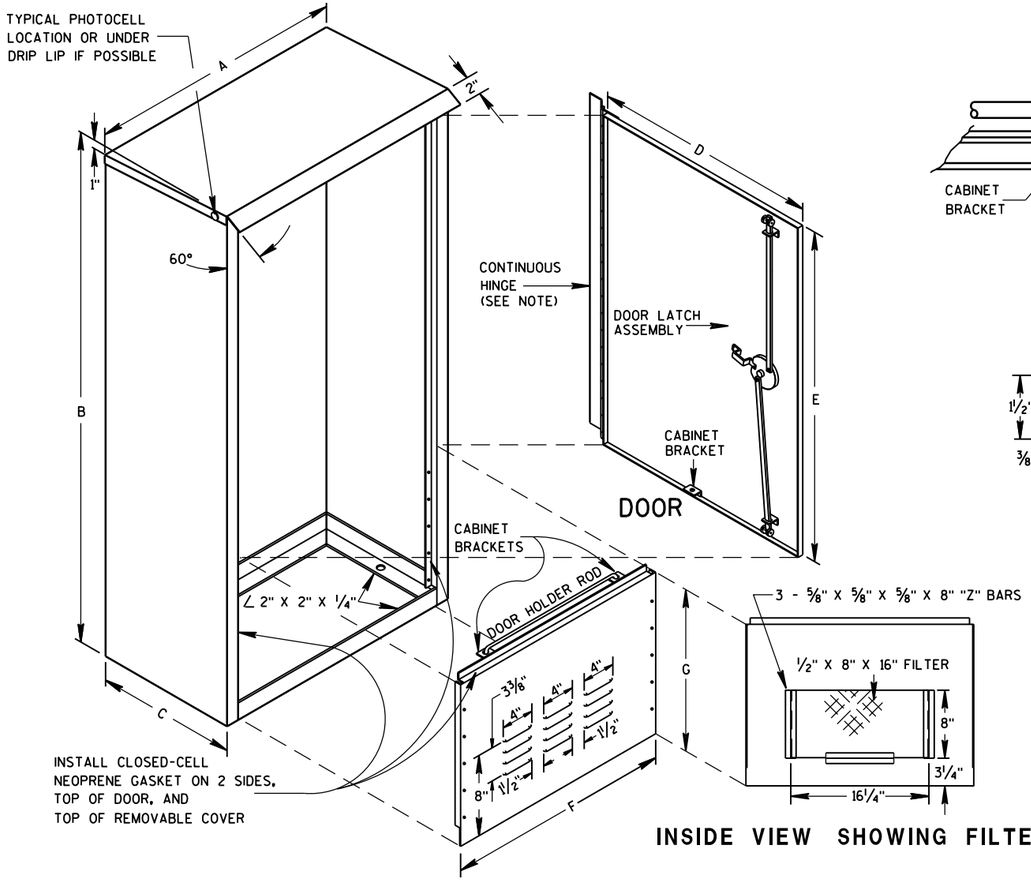
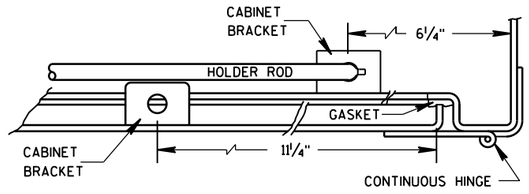
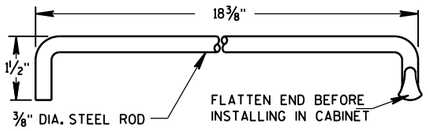


REMOVABLE COVER

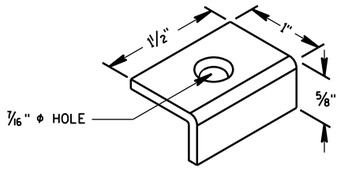
INSIDE VIEW SHOWING FILTER



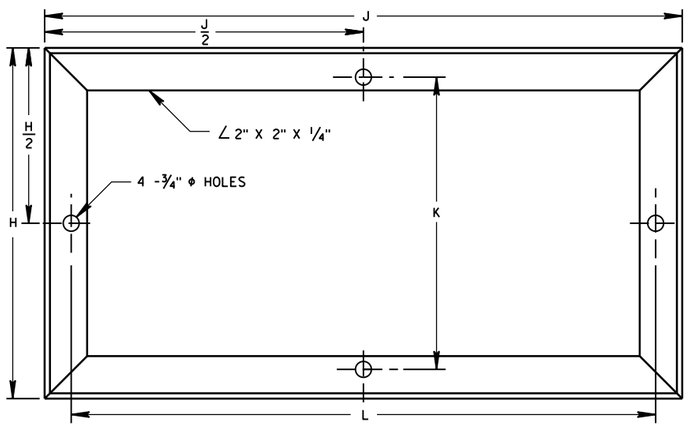
HINGE & DOOR HOLDER



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.

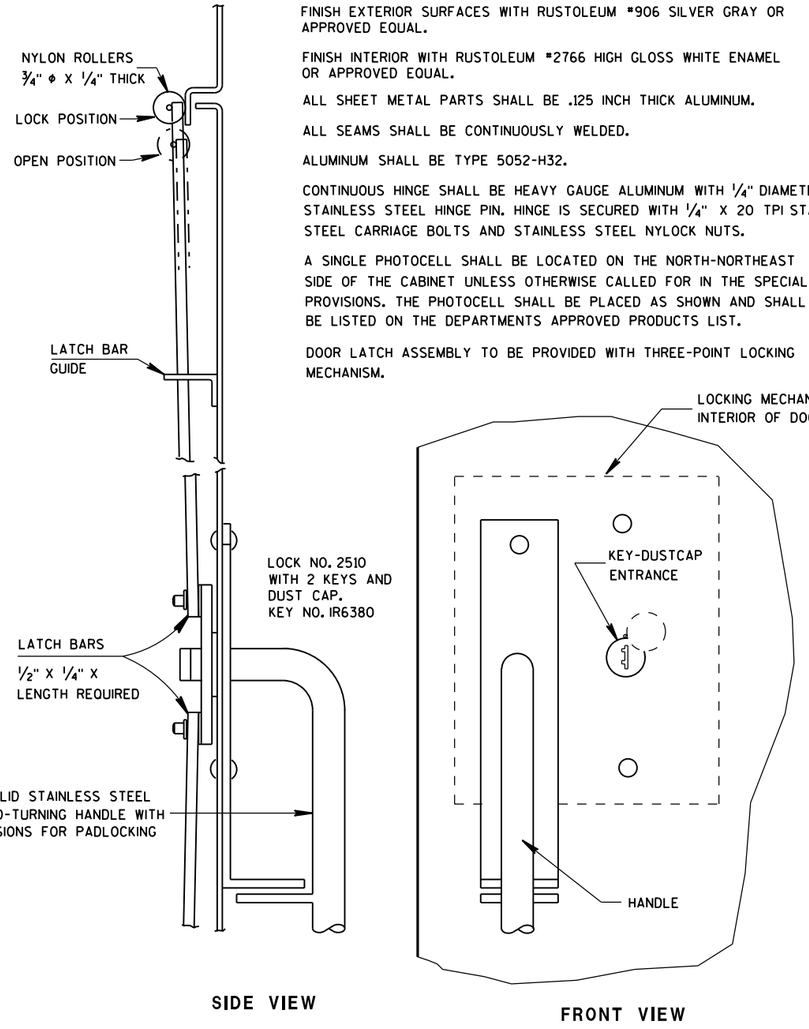
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

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.

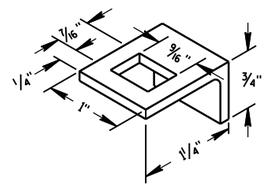
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



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

FHWA

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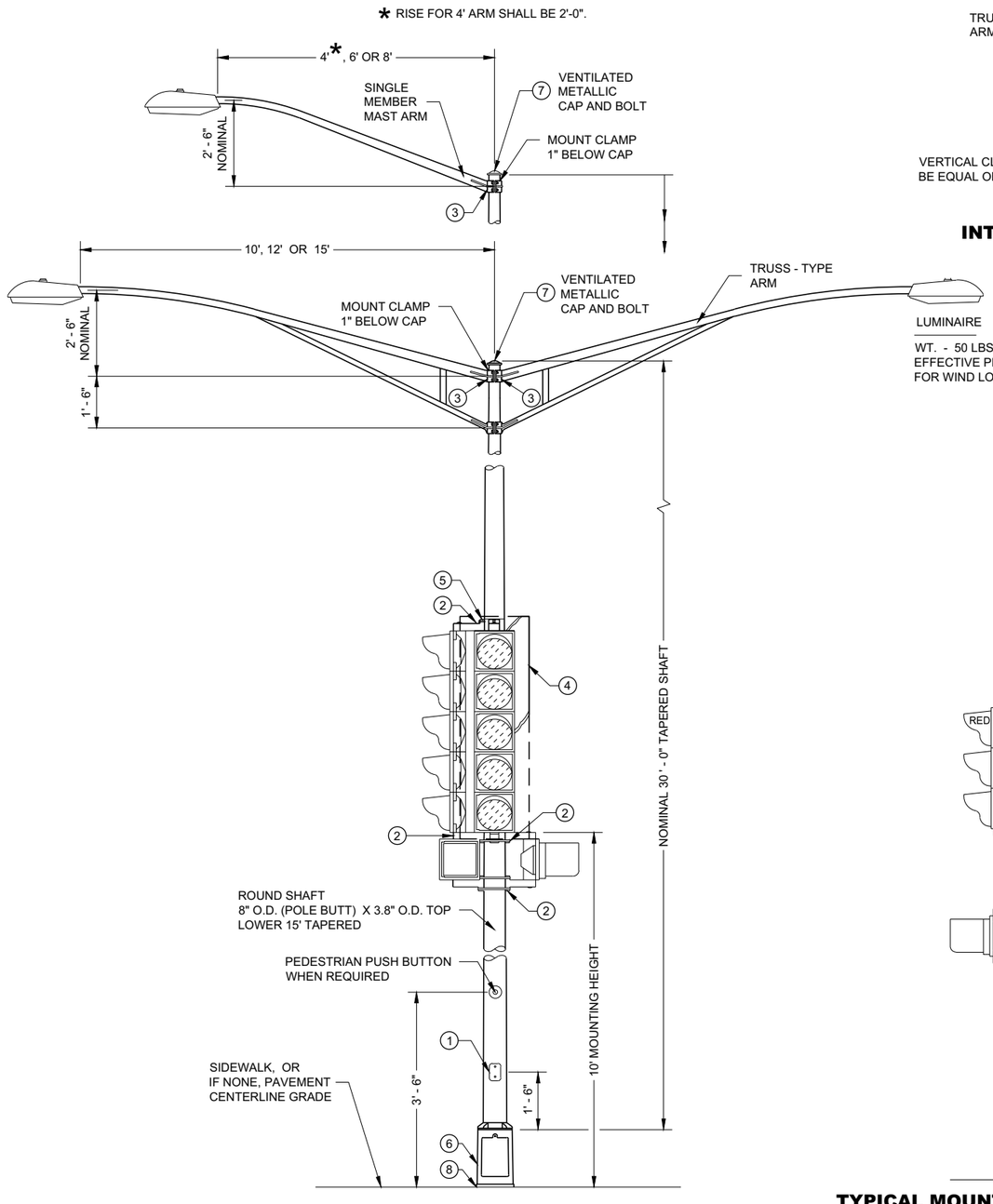
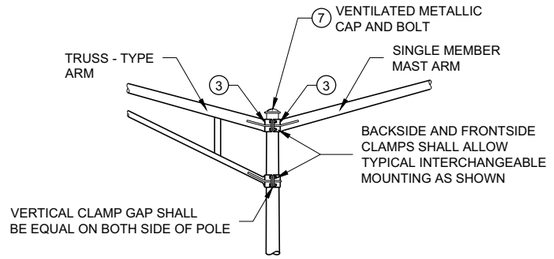
S.D.D. 9 D 2-3



(MAXIMUM LOAD)



INTERCHANGEABLE MOUNTING DETAIL

GENERAL NOTES

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

ALL TYPE 4 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL WITH A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

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.

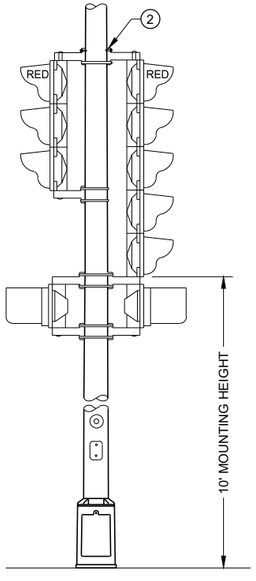
(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

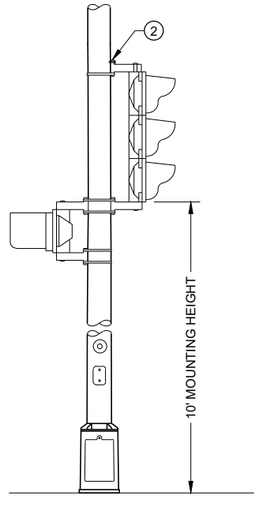
(7) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(8) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

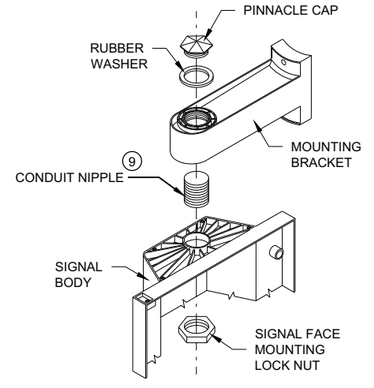
(9) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.



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



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



SIGNAL FACE MOUNTING DETAIL
(BANDED)

TYPE 4 POLE MOUNTING CONFIGURATION

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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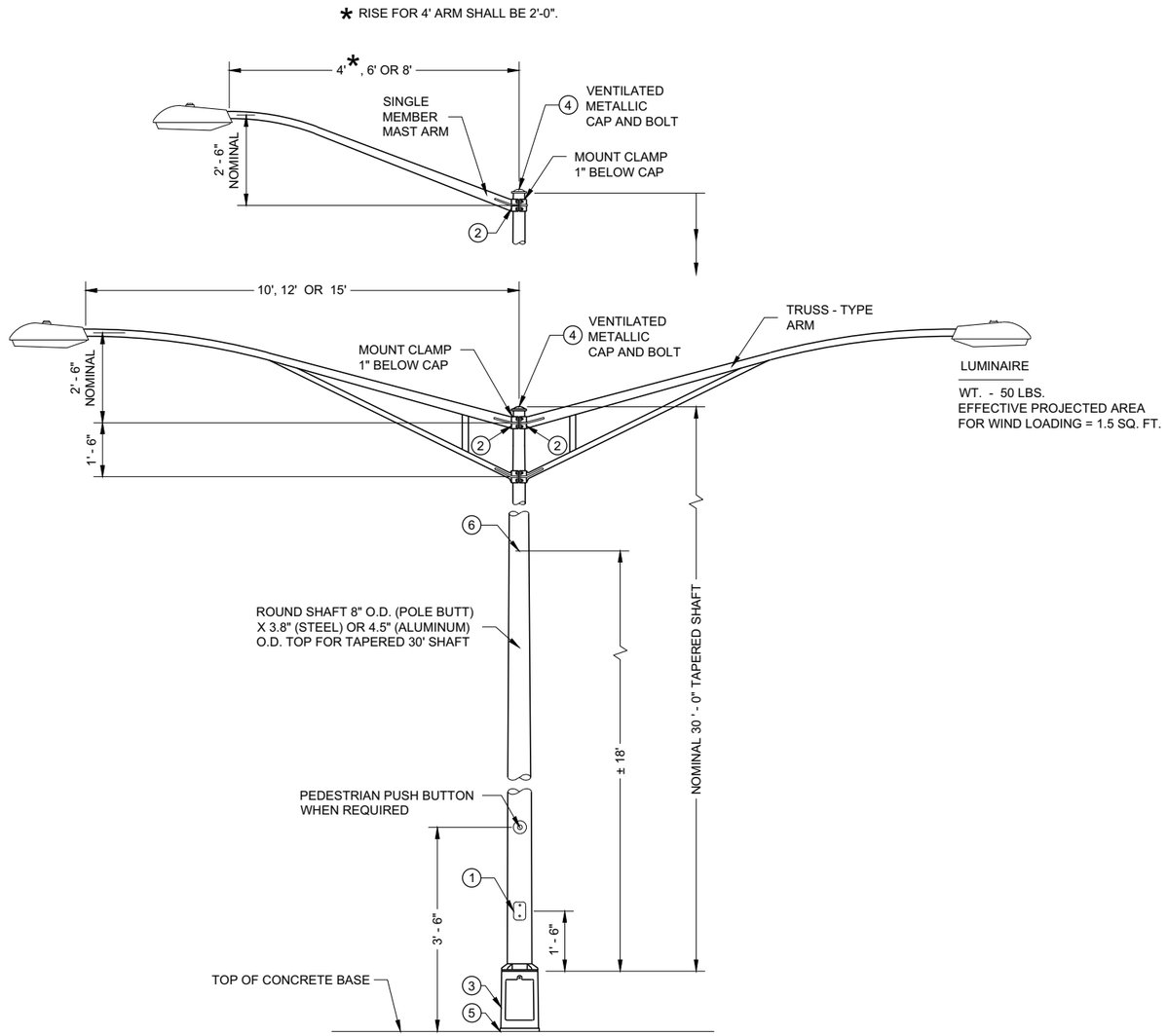


TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

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.

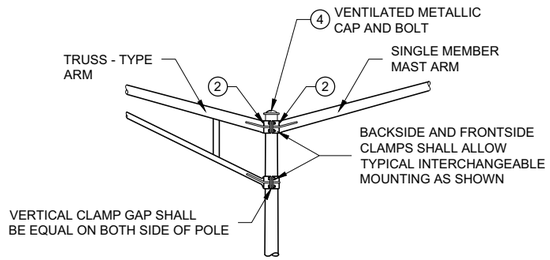
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(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)

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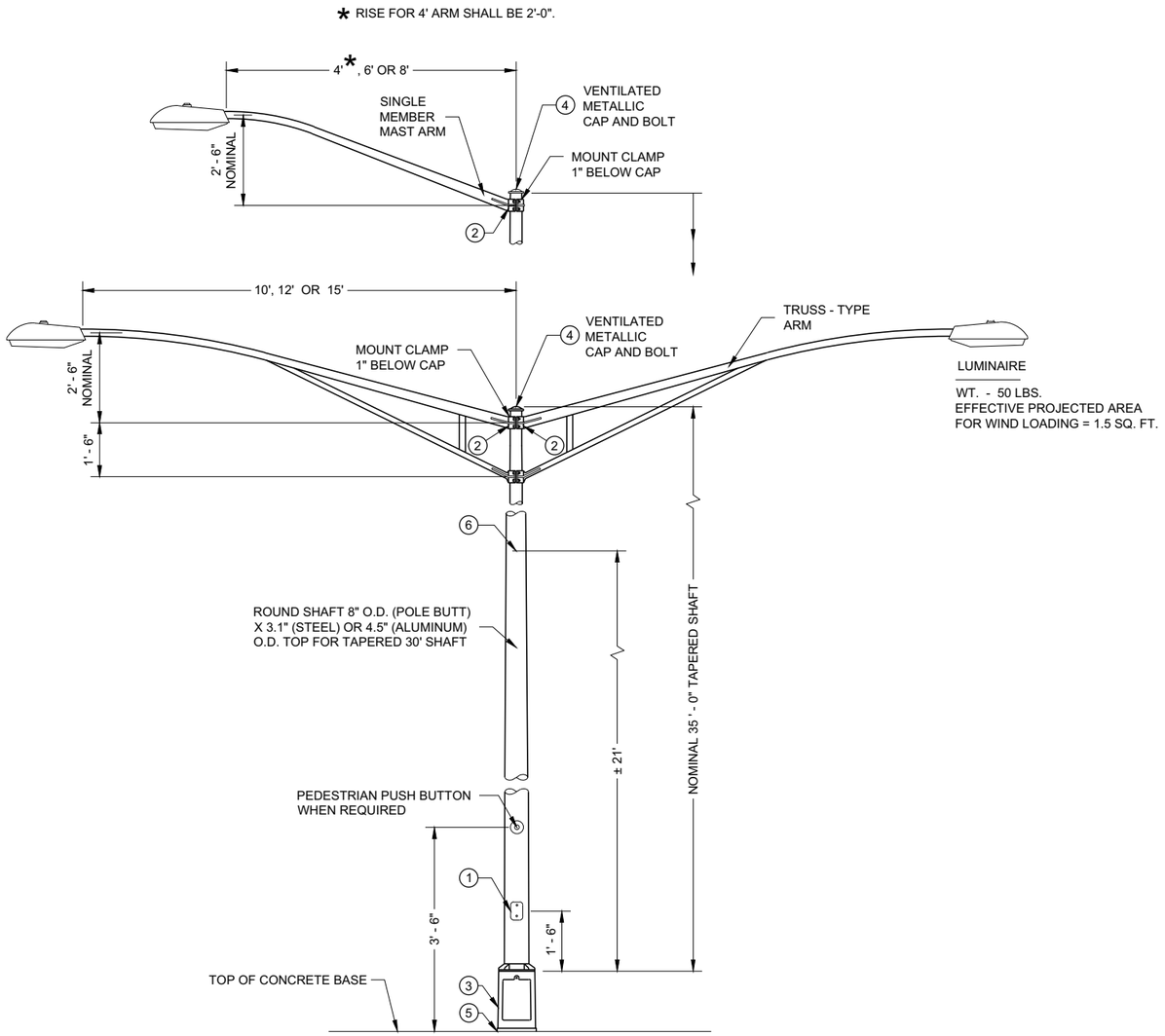
SDD 09E01 - 15d



TYPE 6 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 6 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 6 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 6 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.219".

TYPE 6 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.

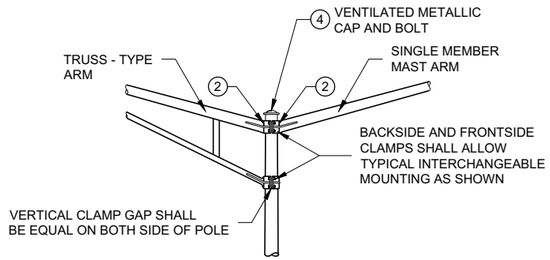
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(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 6 (35 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

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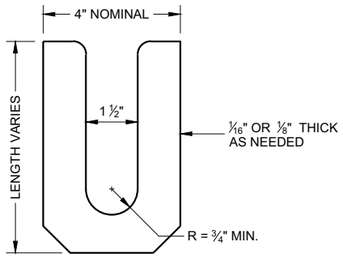
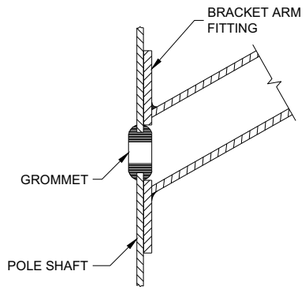
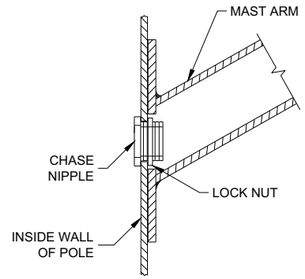


LEVELING SHIM (1)
SHALL BE ALUMINUM



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.

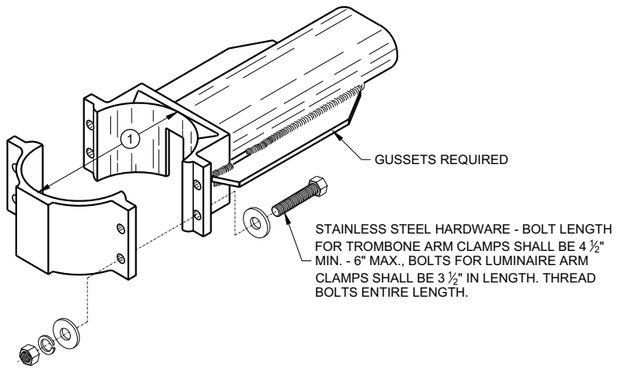
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

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

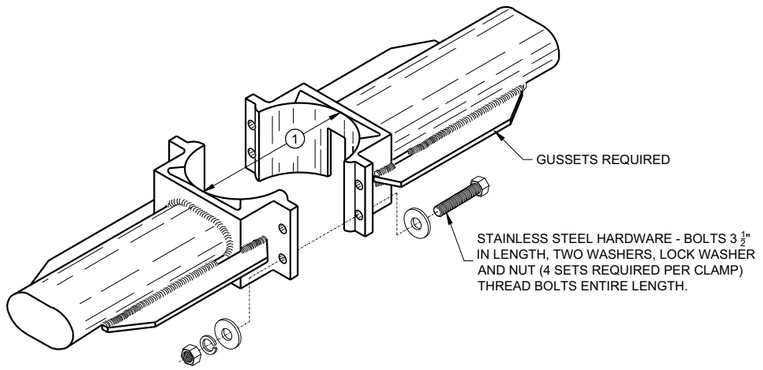
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(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.

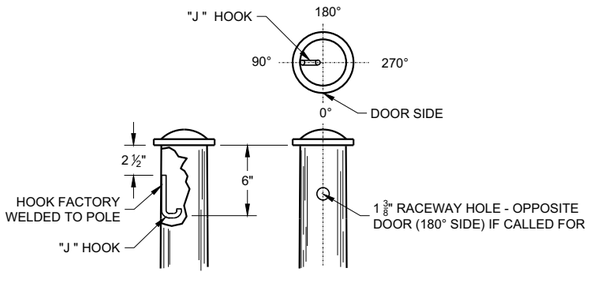
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



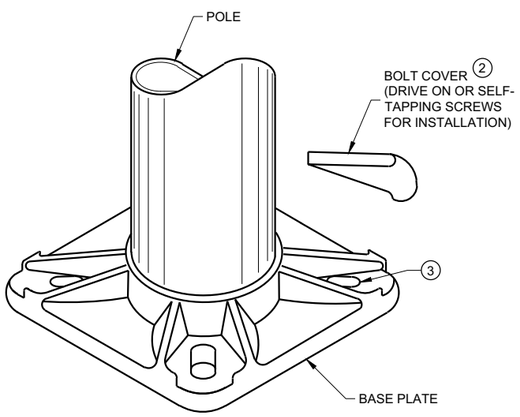
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



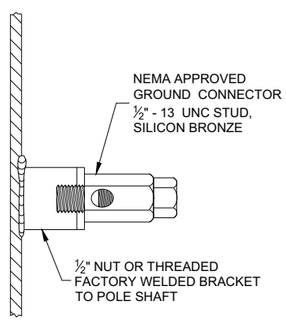
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

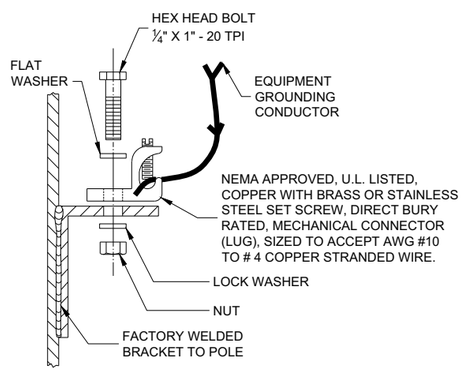


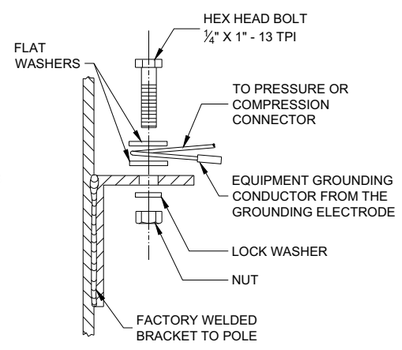
TYPICAL "J" HOOK LOCATION



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 464

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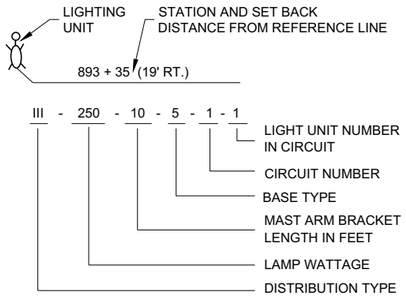
SDD09A01 - 15g

GENERAL NOTES

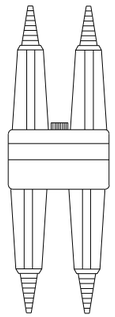
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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.

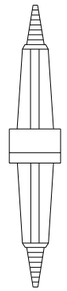
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.



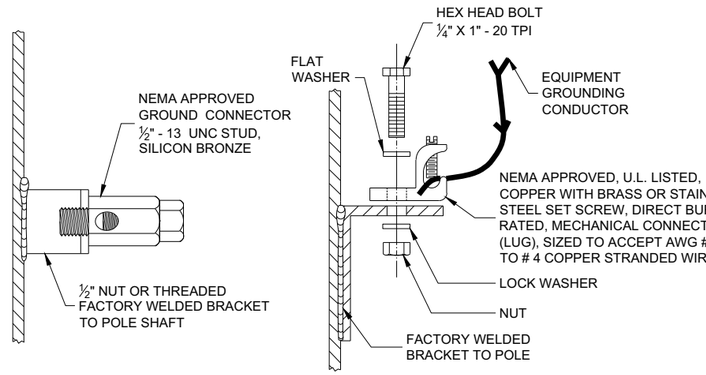
LIGHTING UNIT CODE
(TYPICAL)



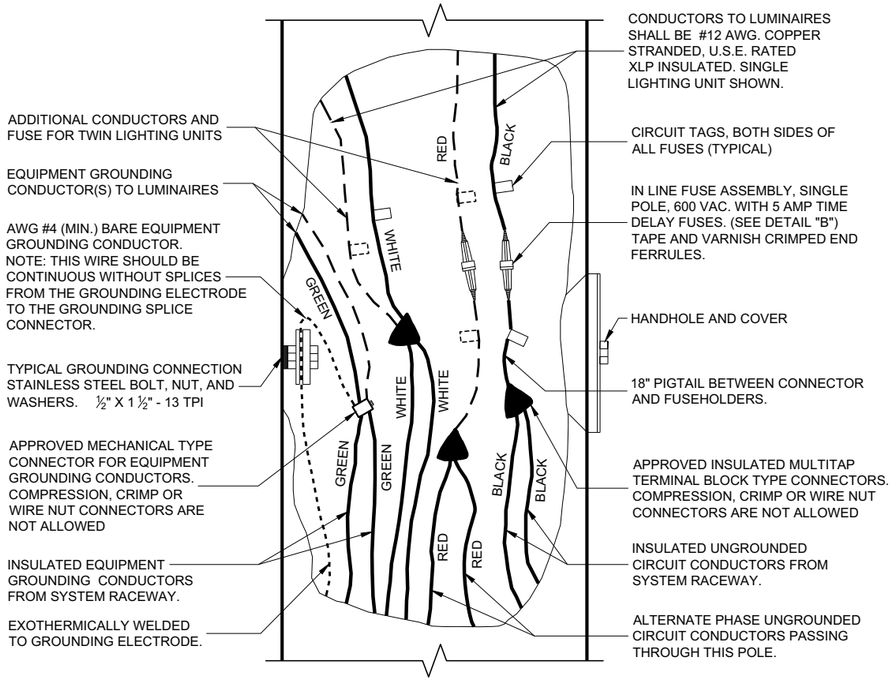
DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



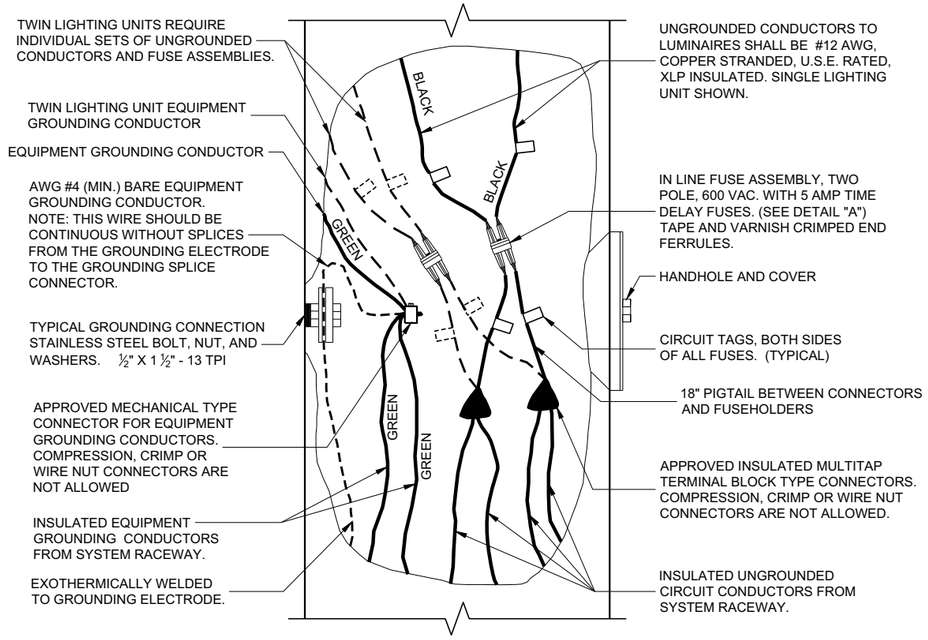
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



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

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November 2018
DATE
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STATE ELECTRICAL ENGI 465

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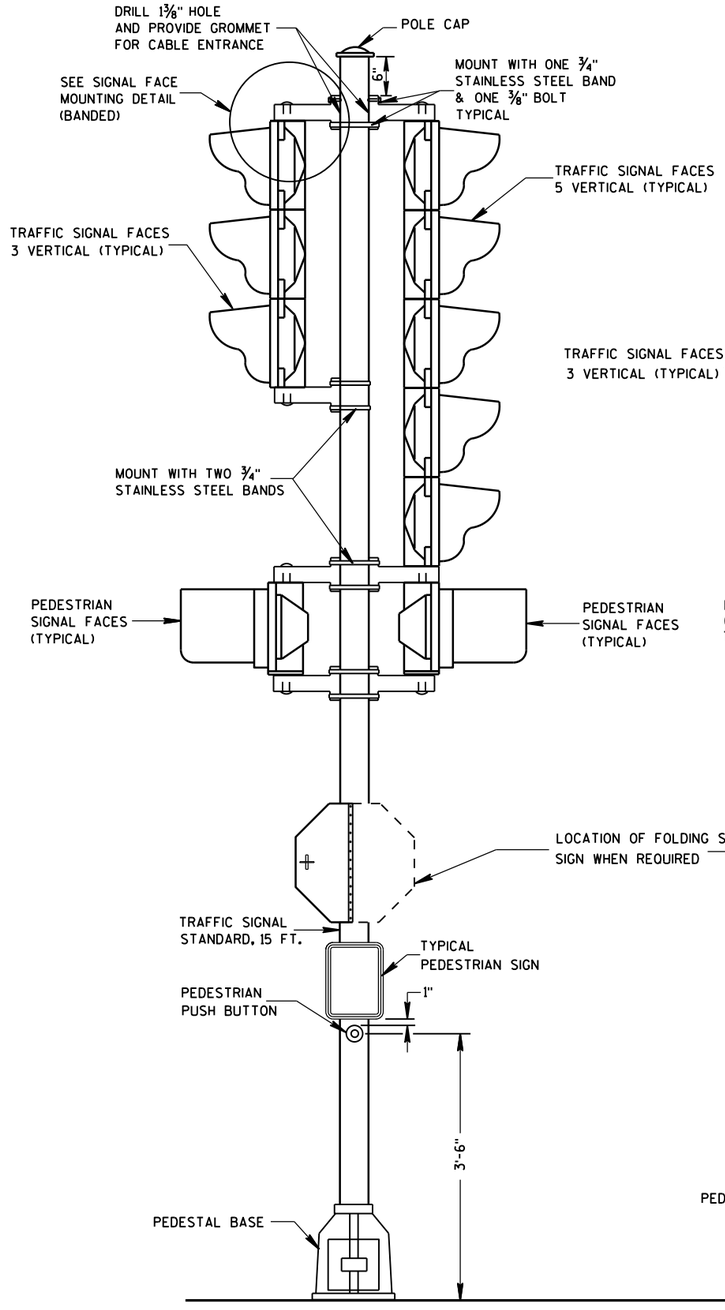
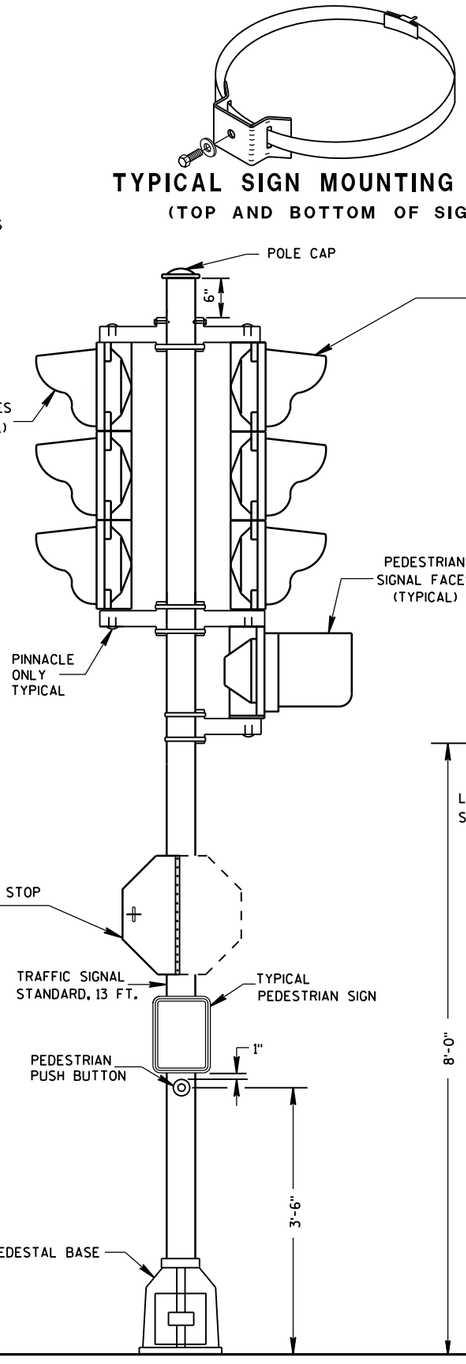
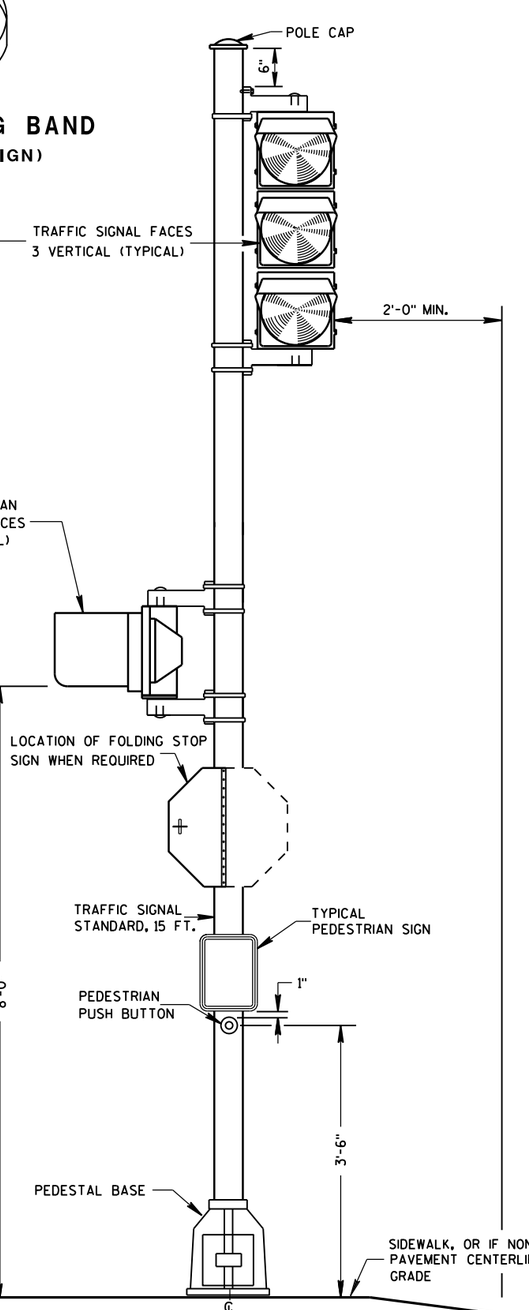


TRAFFIC SIGNAL STANDARD-15 FT.



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.

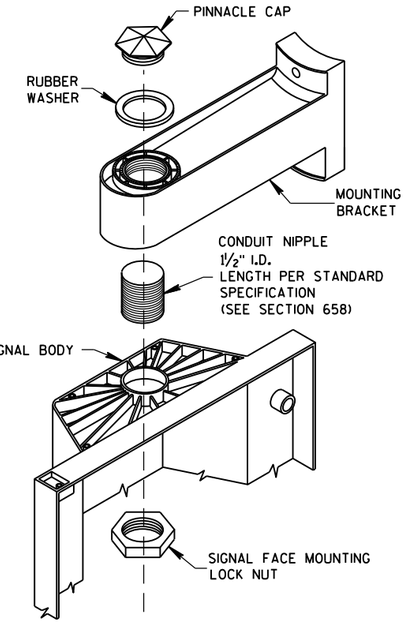
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

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) 1/4" 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.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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2/28/2013 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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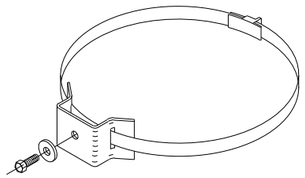
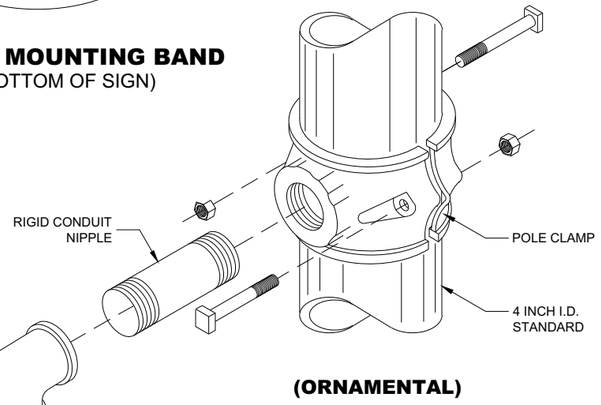
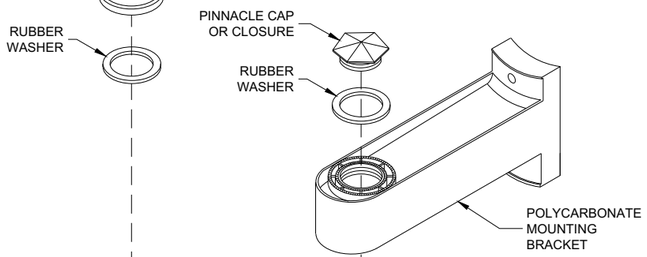


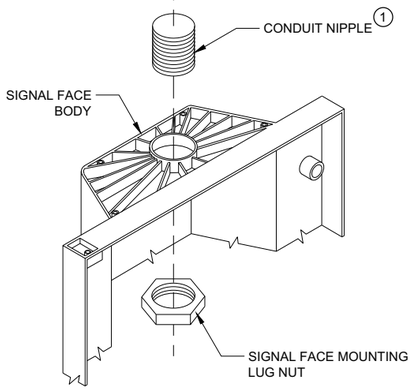
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



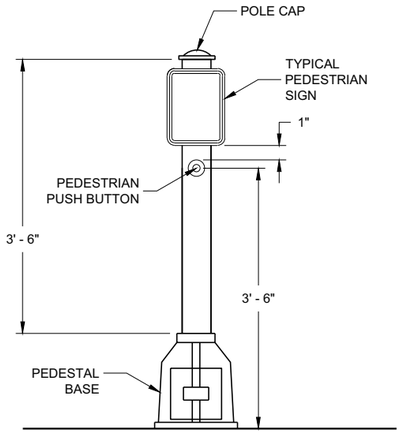
(ORNAMENTAL)



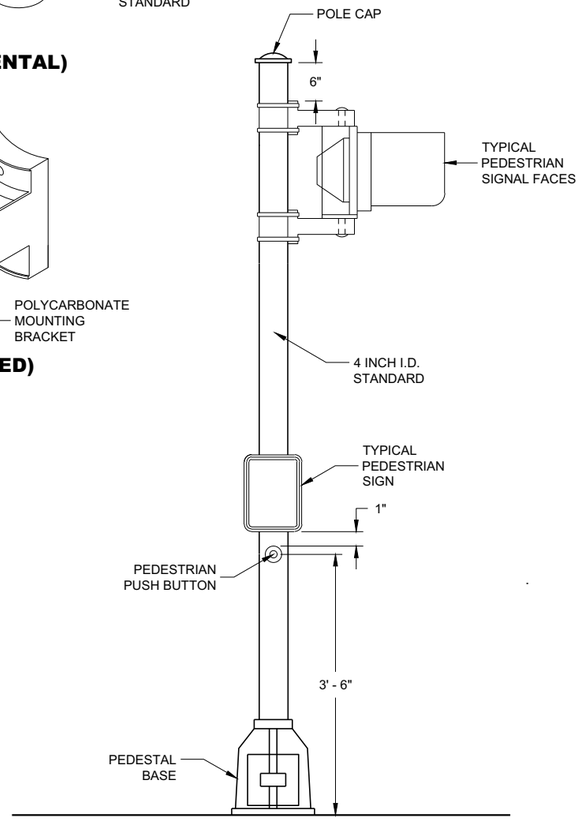
(BANDED)



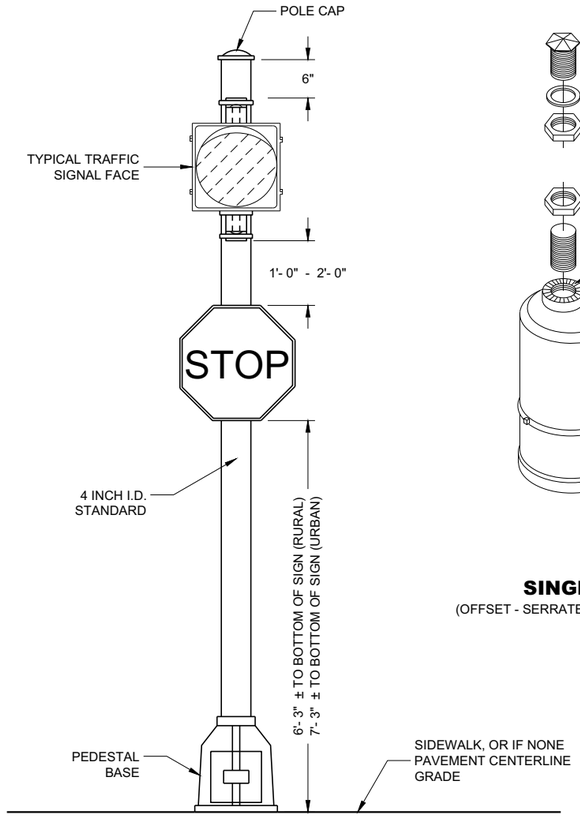
SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING



PEDESTRIAN FACE STANDARD - 10 FT.
(WALK - DON'T WALK)



STANDARD FLASHER
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED

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.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS, UNLESS APPROVED BY THE ENGINEER IN THE FIELD.

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

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

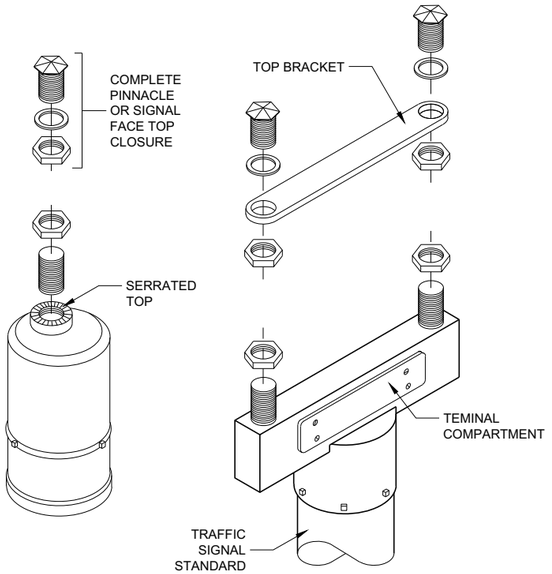
LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE REGION TRAFFIC ENGINEER).

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.

(1) 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 FACESAND BRACKET ENDS.



SINGLE
(OFFSET - SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 467

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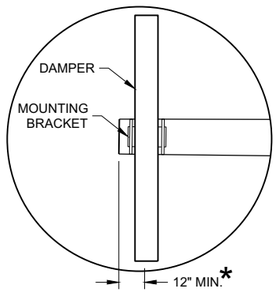
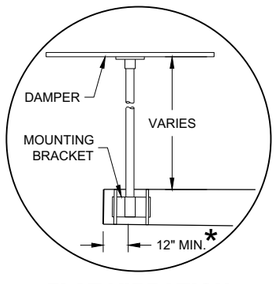
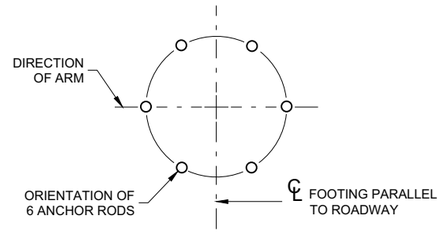


DUMBBELL VIBRATION DAMPER

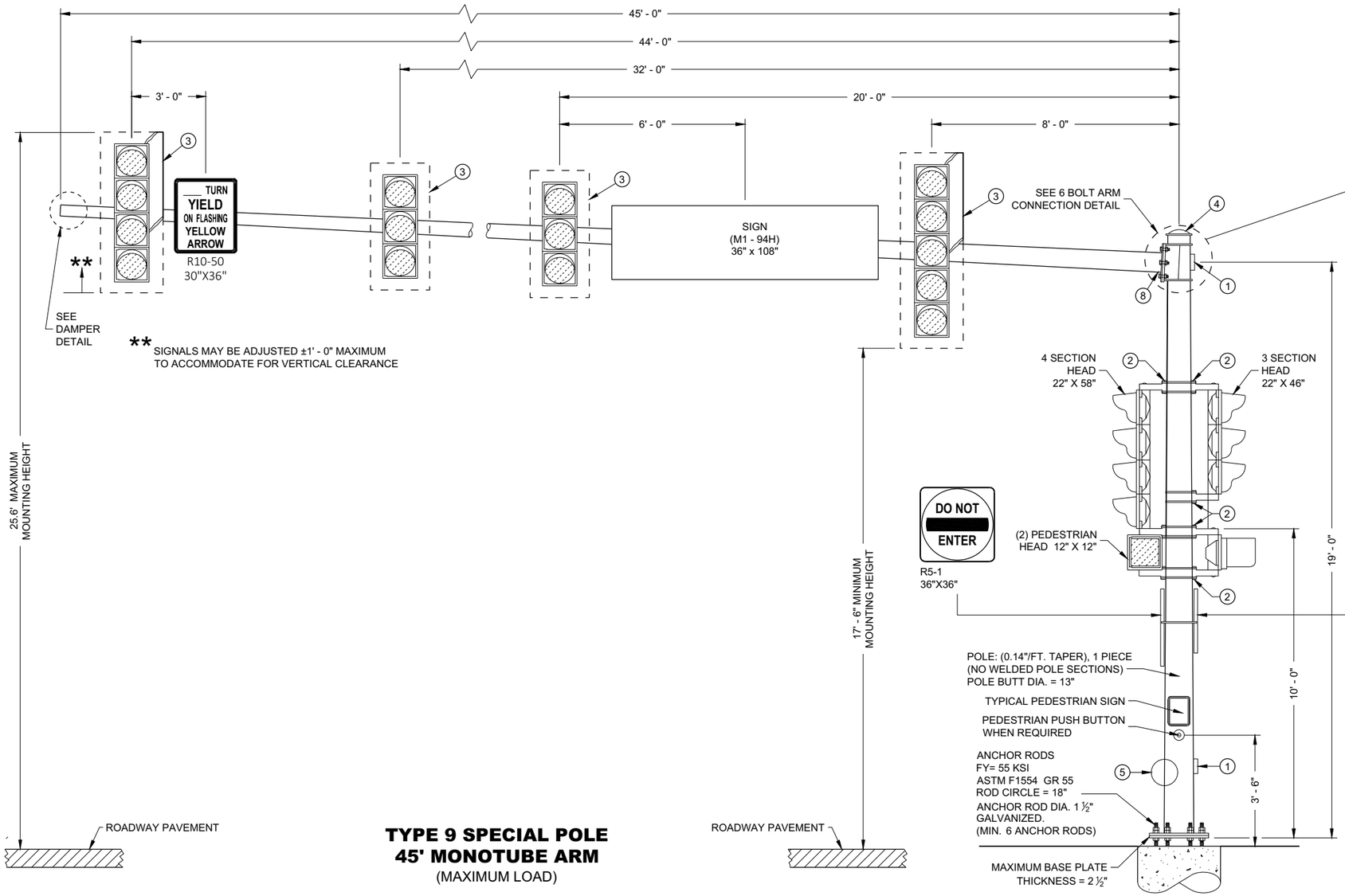


FLAT VIBRATION DAMPER

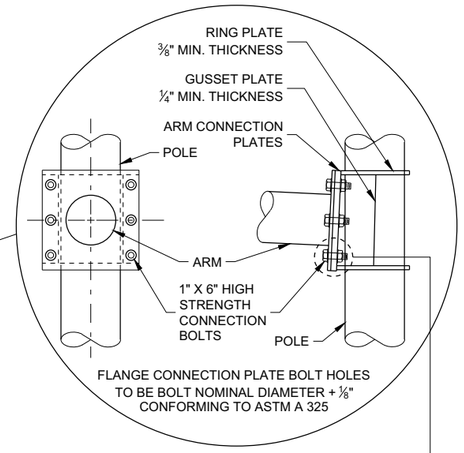
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.



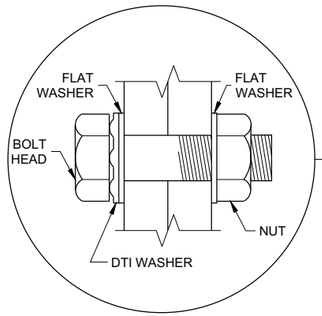
ANCHOR ROD LOCATION



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



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE
45' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
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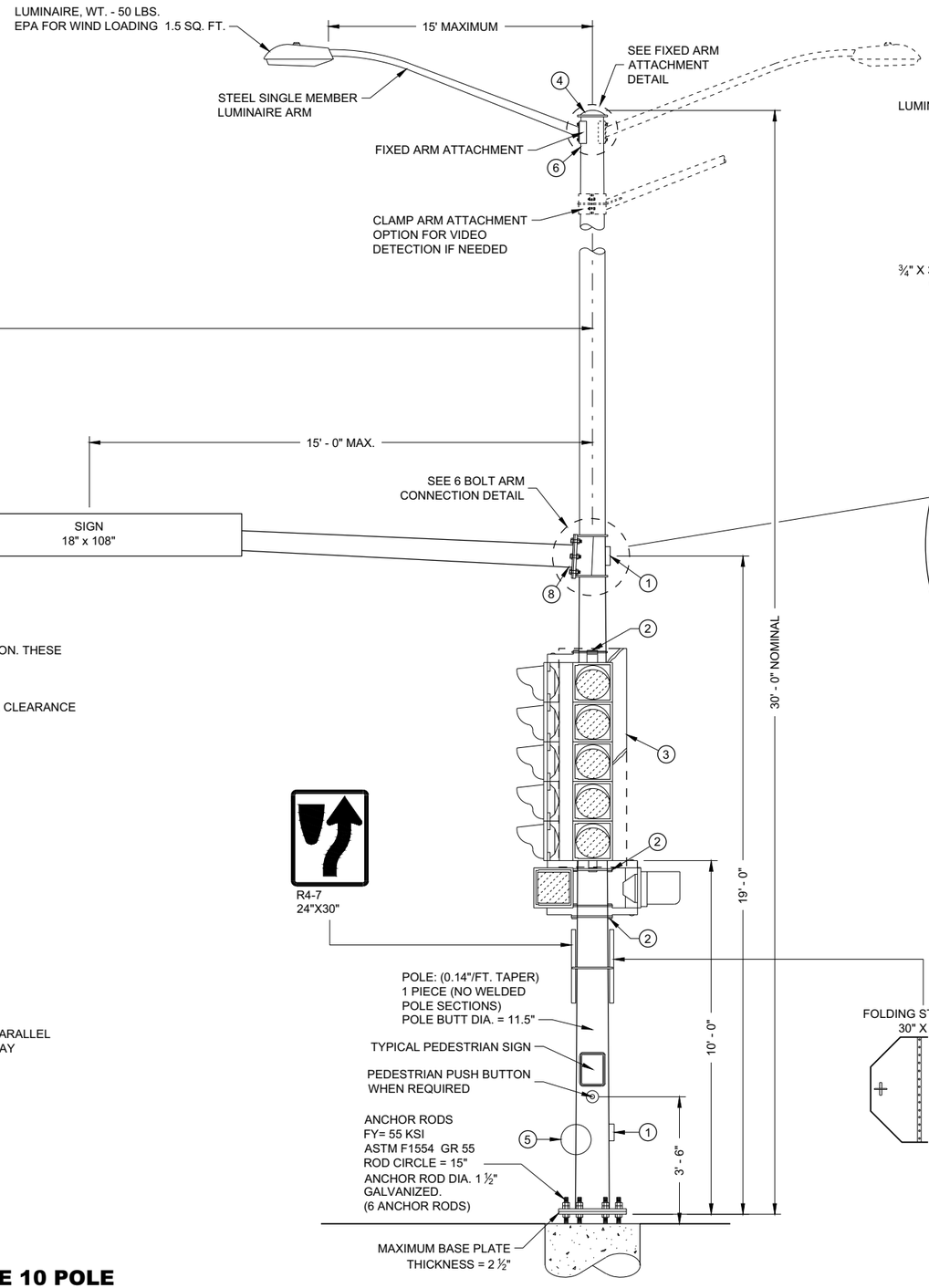
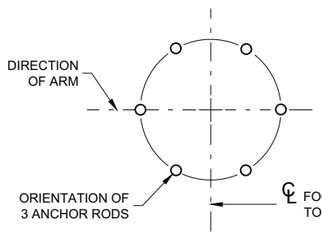
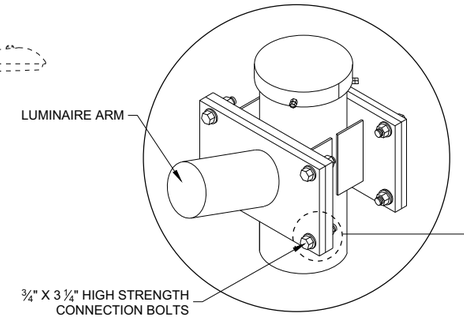


* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

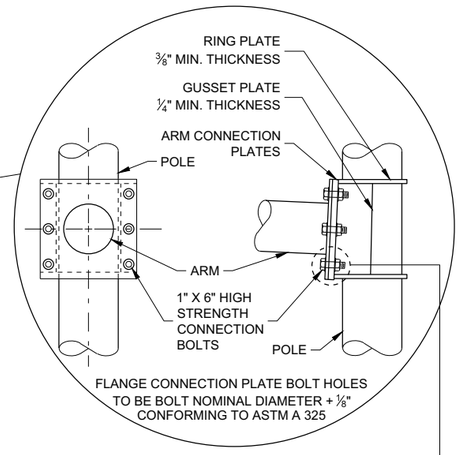
** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE



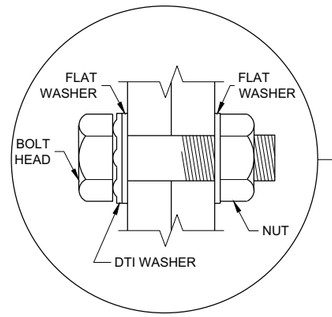
ANCHOR ROD LOCATION



FIXED ARM ATTACHMENT DETAIL



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 POLE
15' - 30' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 10 POLE
15' - 30' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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August 2020
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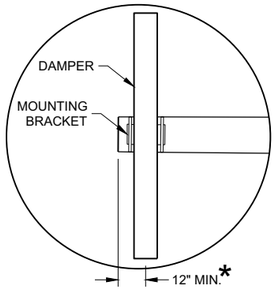
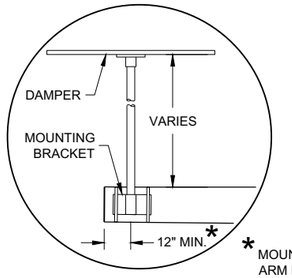
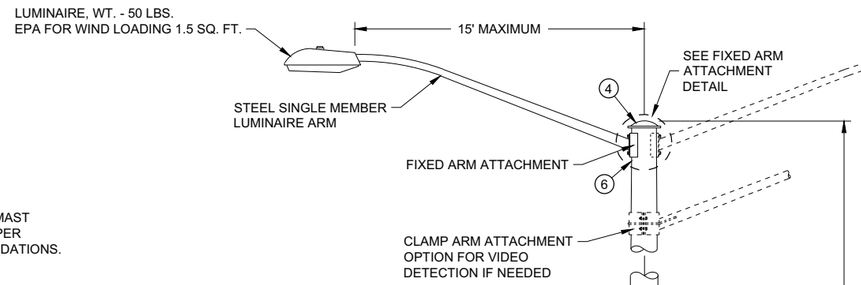


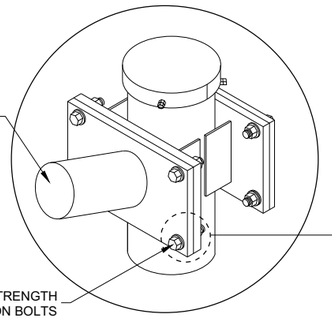
DUMBBELL VIBRATION DAMPER



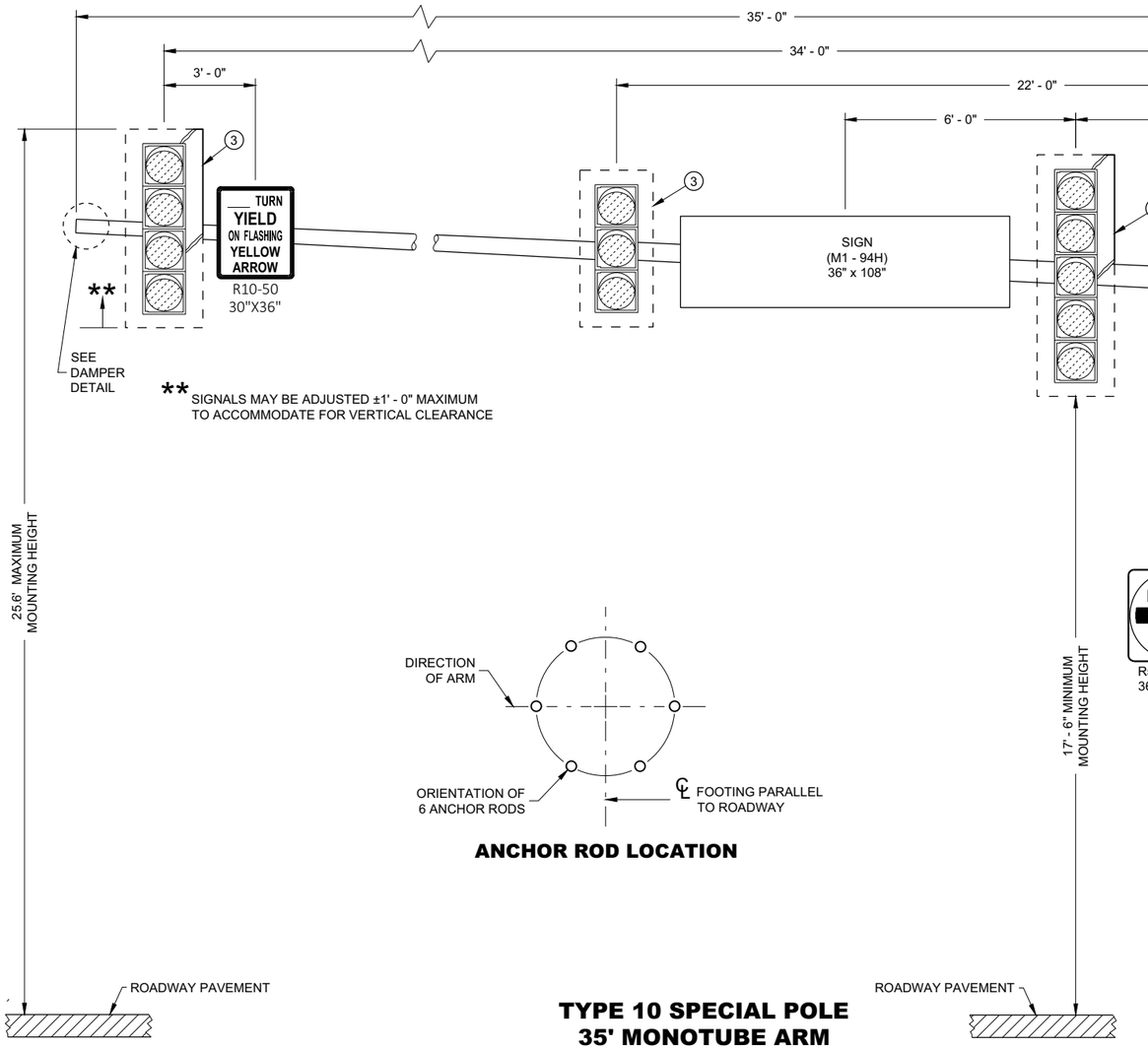
FLAT VIBRATION DAMPER

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





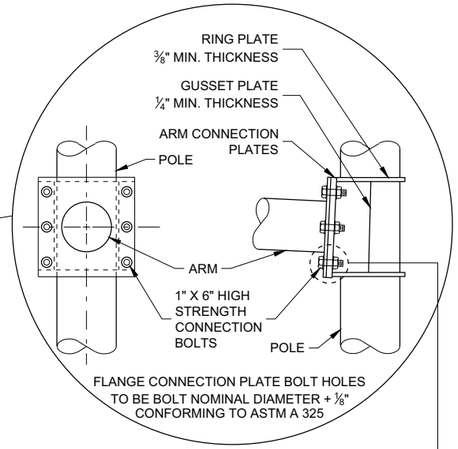
FIXED ARM ATTACHMENT DETAIL



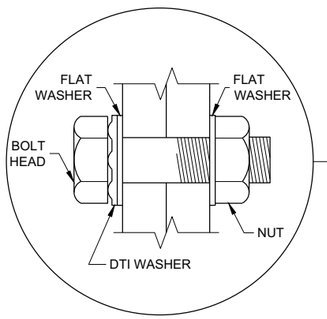
** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

ANCHOR ROD LOCATION

TYPE 10 SPECIAL POLE
35' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 SPECIAL POLE
35' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 470

FHWA

6

SDD 09E08 - 09f

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.

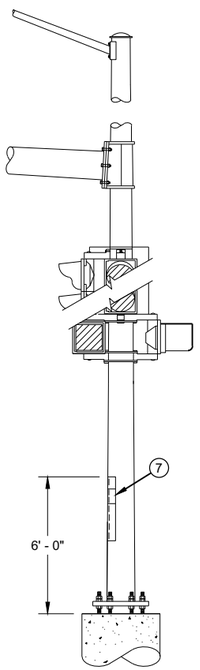
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

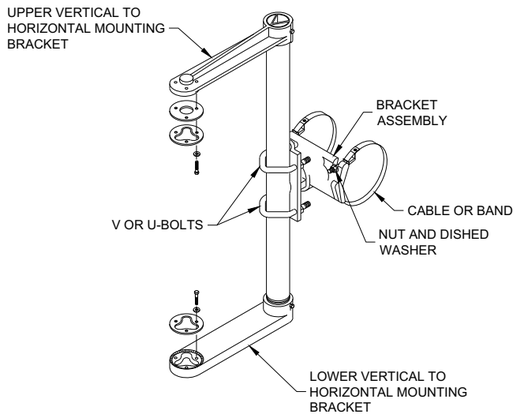
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

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.

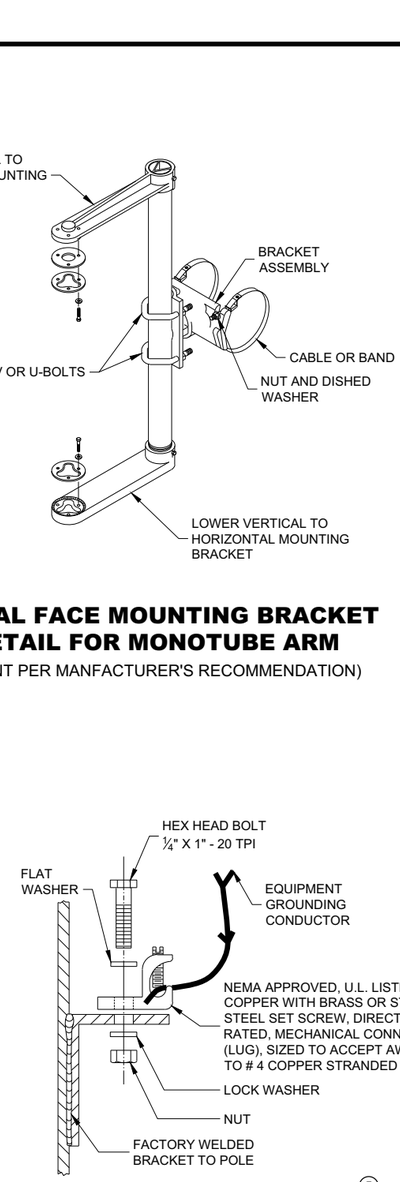


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



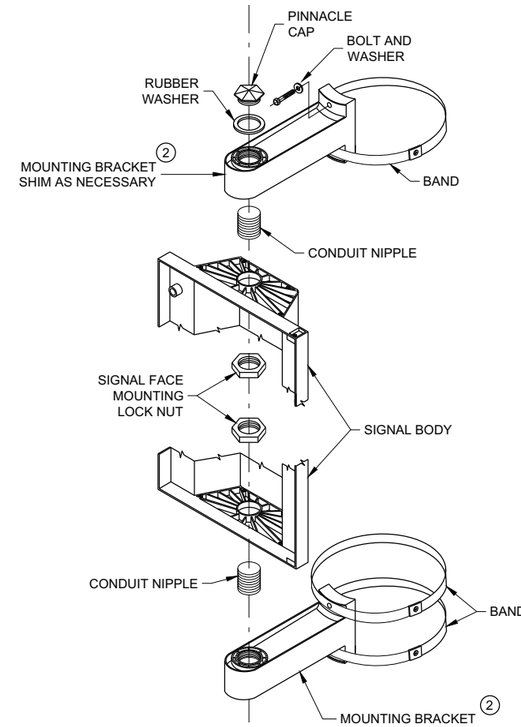
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANFACTURER'S RECOMMENDATION)

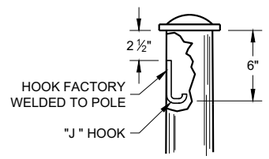


TYPICAL GROUNDING (5) CONNECTIONS

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
DEPARTMENT OF TRANSPORTATION

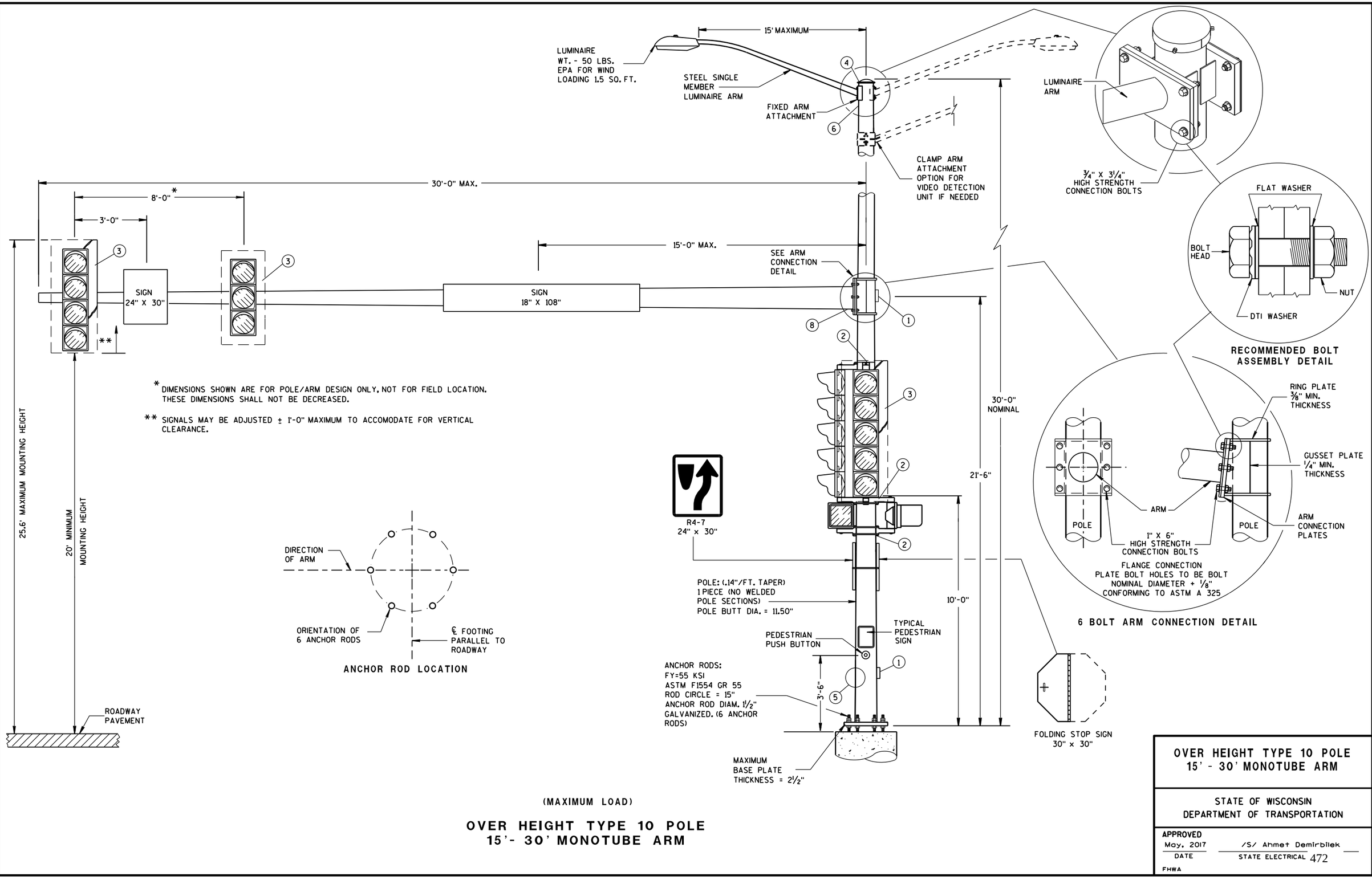
APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA

6

SDD 09E08 - 09k



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

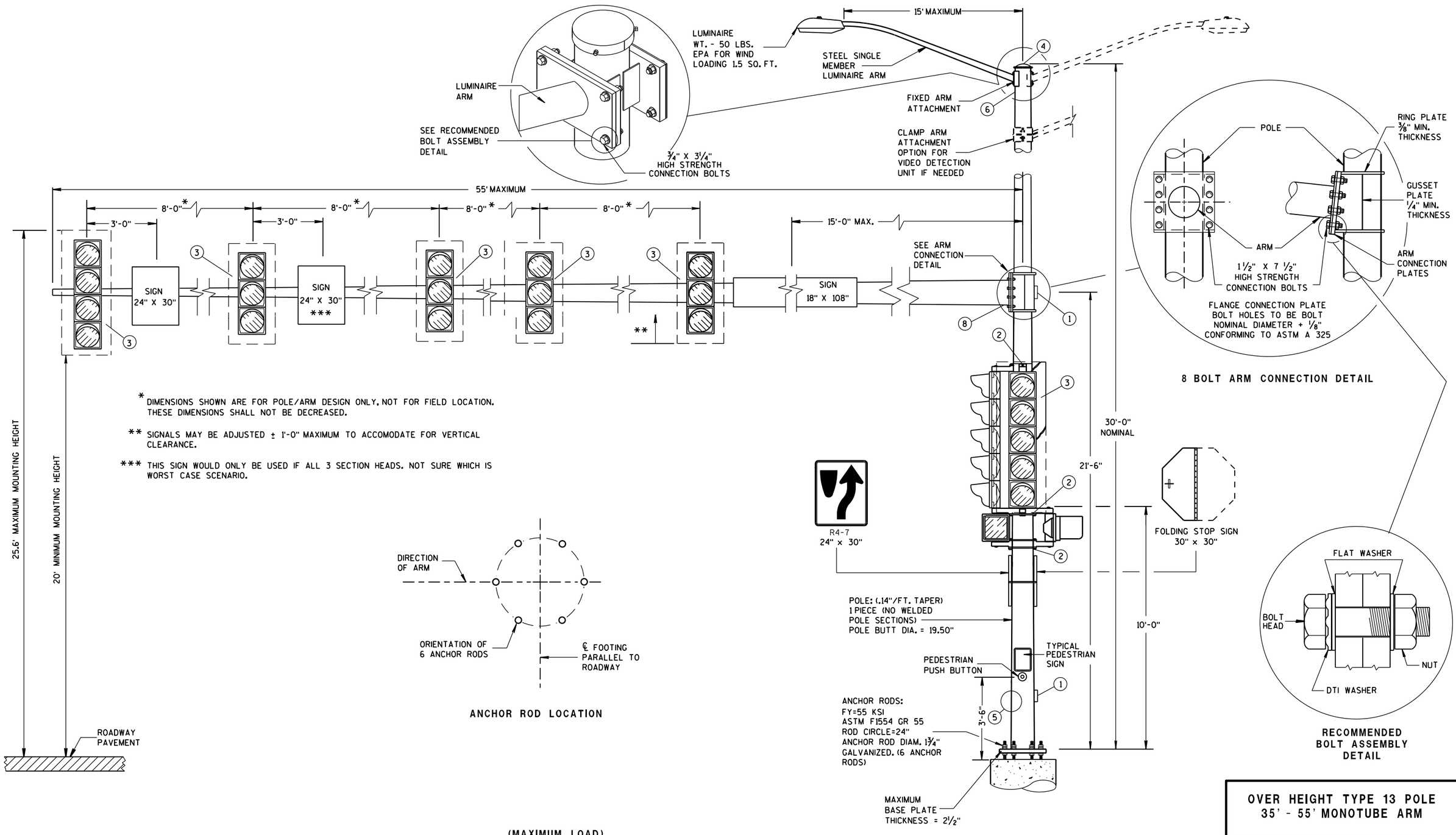
** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

(MAXIMUM LOAD)

OVER HEIGHT TYPE 10 POLE
15'- 30' MONOTUBE ARM

OVER HEIGHT TYPE 10 POLE 15' - 30' MONOTUBE ARM	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May, 2017 DATE FHWA	/S/ Ahmet Demirbilek STATE ELECTRICAL

6 S.D.D. 9 E 12-1b



* 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 ACCOMODATE FOR VERTICAL CLEARANCE.

*** THIS SIGN WOULD ONLY BE USED IF ALL 3 SECTION HEADS. NOT SURE WHICH IS WORST CASE SCENARIO.

8 BOLT ARM CONNECTION DETAIL

ANCHOR ROD LOCATION

RECOMMENDED BOLT ASSEMBLY DETAIL

(MAXIMUM LOAD)

OVER HEIGHT TYPE 13 POLE 35'- 55' MONOTUBE ARM

OVER HEIGHT TYPE 13 POLE 35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 E 12-1d

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S.D.D. 9 E 12-1d

GENERAL NOTES

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

OVER HEIGHT POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15-FOOT TO 30-FOOT.

OVER HEIGHT POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35-FOOT TO 55-FOOT.

MONOTUBE POLE AND ARM SHALL BE GALVANIZED STEEL.

RING-STIFFENED BUILT-UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE (1) PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3 % ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATIONS 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 2017 INTERIM REVISIONS) AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR TRAFFIC AND LIGHTING STRUCTURES AND 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 GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 12 AND TYPE 13 STRUCTURES.
- 90 MPH (3-SECOND GUST) WIND SPEED AND A 50 YEAR DESIGN LIFE.

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" S.S. 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 AS DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEADS 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 HANDHOLE 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 SPECIFICATIONS SEC. 658).

(3) SECURELY MOUNT BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE END OF 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 HANDHOLE, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

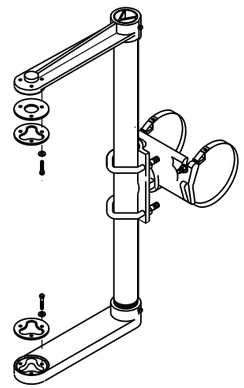
(6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

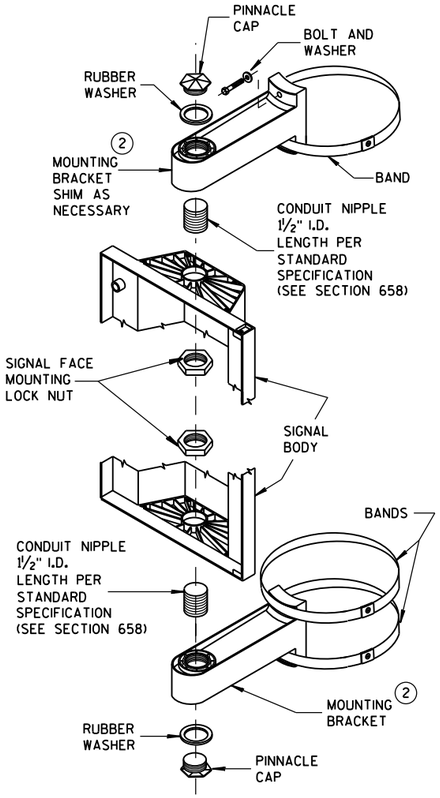
MOUNTING HEIGHT SHALL BE 6'-0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

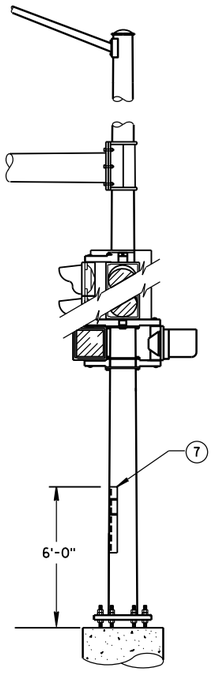


SIGNAL FACE MOUNTING BRACKET
DETAIL FOR MONOTUBE ARM

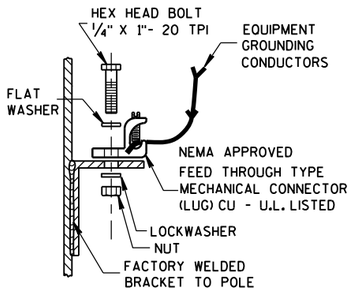
(MOUNT PER MANUFACTURER'S RECOMMENDATION)



SIGNAL FACE
VERTICAL MOUNTING DETAIL

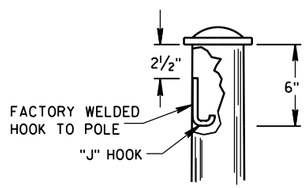


STRUCTURAL IDENTIFICATION
PLAQUE PLACEMENT



TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



"J" HOOK WIRE SUPPORT (6)

GENERAL NOTES AND HARDWARE DETAILS FOR OVER HEIGHT TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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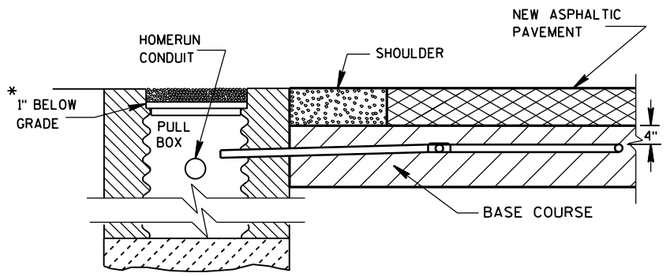
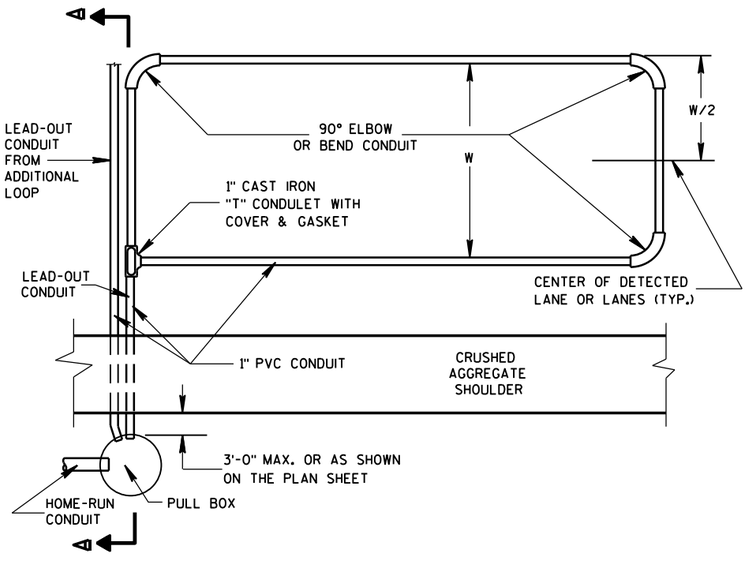
S.D.D. 9 E 12-1e



SECTION A-A
NO CURB & GUTTER

DETECTOR LOOP INSTALLATION DETAIL

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.



TYPICAL PLAN OF LOOP DETECTOR

GENERAL NOTES

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

LOOP SIZE, 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 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 FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

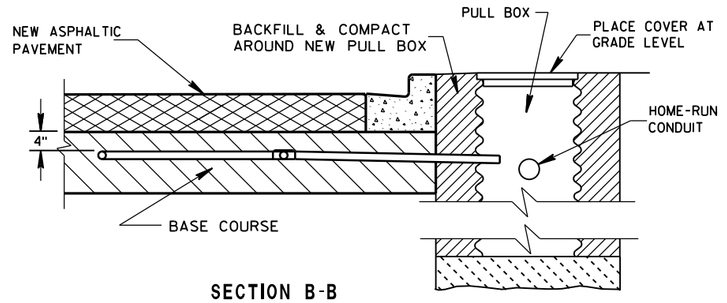
SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP DUCT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT AND CONDULET SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE THE ASPHALTIC PAVEMENT IS PLACED.

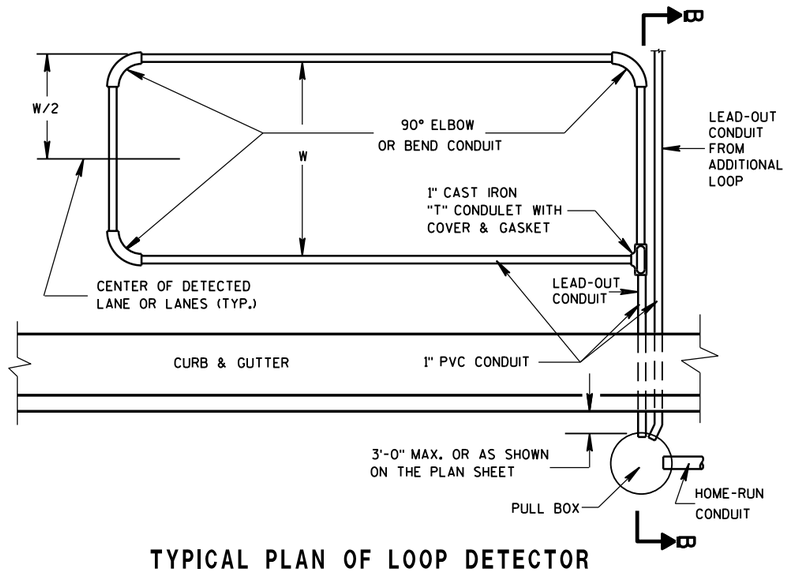
WHEN MULTIPLE LAYERS OF ASPHALTIC PAVEMENT ARE TO BE PLACED, LOOPS MAY BE INSTALLED BY SAWING A TWO INCH WIDE SLOT IN THE FIRST LAYER, DIG OUT THE ASPHALTIC MATERIAL AND BASE COURSE, PLACE THE LOOP, FILL THE SLOT WITH BASE COURSE MATERIAL AND NEW ASPHALTIC MATERIAL AND TAMP THE ASPHALTIC MATERIAL IN PLACE.

SHOULD TRAFFIC BE ALLOWED TO USE THE AREA OF ROADWAY WITH THE NEWLY INSTALLED LOOP BEFORE THE PLACEMENT OF THE NEXT LAYER OF ASPHALTIC PAVEMENT, THE SLOT/PAVEMENT OPENING SHALL BE SEALED WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".



SECTION B-B
CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAIL



TYPICAL PLAN OF LOOP DETECTOR

LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ASPHALTIC PAVEMENT)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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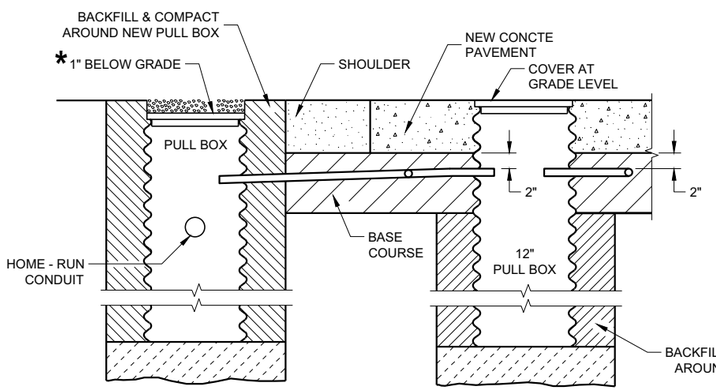
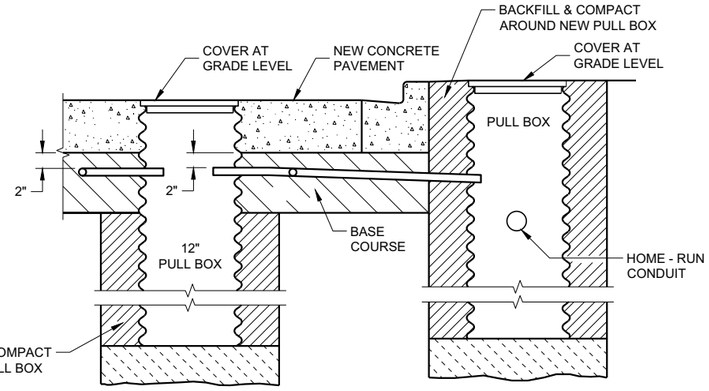
S.D.D. 9 F 8-4



SECTION A - A
NO CURB AND GUTTER

LOOP DETECTOR INSTALLATION DETAIL



SECTION B - B
CURB AND GUTTER

LOOP DETECTOR INSTALLATION DETAIL

* RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

GENERAL NOTES

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

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

ANY PVC LEADOUT CONDUIT CONTAINING MORE THAN ONE TWISTED PAIR OF LOOP LEAD WIRE SHALL BE 2".

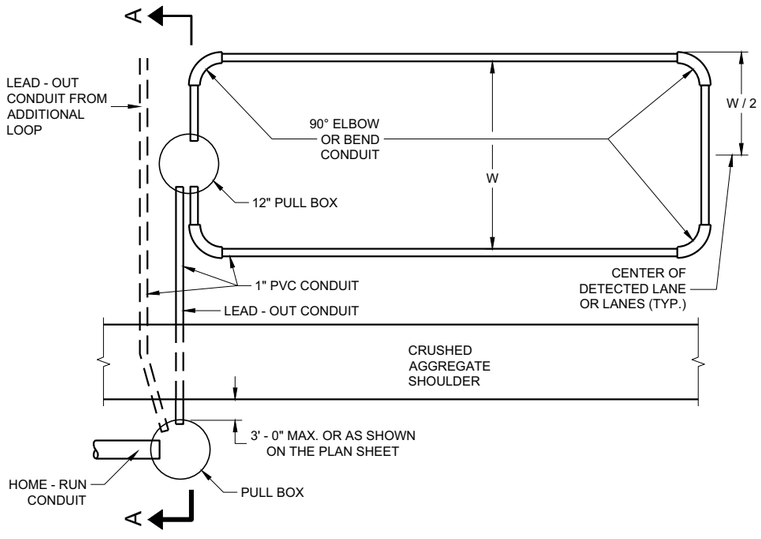
THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

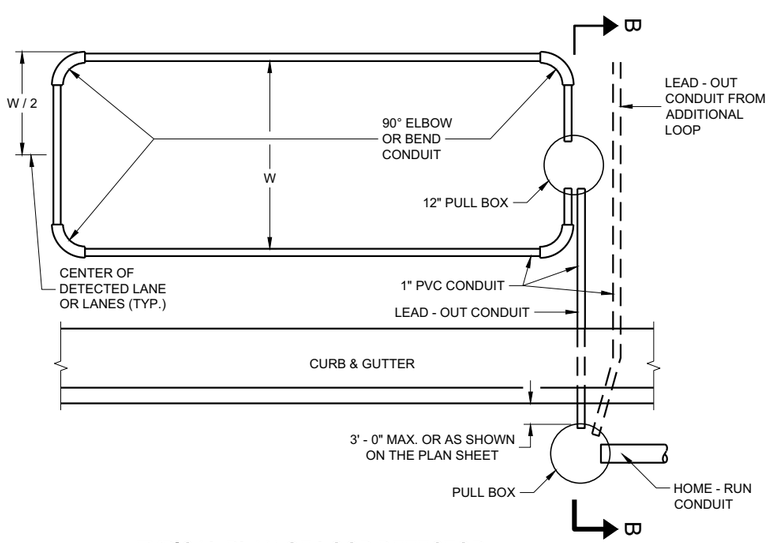
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, INTO THE PULL BOX IN THE PAVEMENT, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT, CONDULET, PULL BOX SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW CONCRETE PAVEMENT IS POURED.

12" PULL BOXES IN PAVEMENT SHALL BE CORRUGATED STEEL ONLY.



TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULLBOX



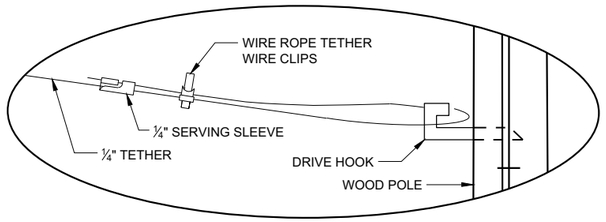
TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULLBOX

LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 476
FHWA

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

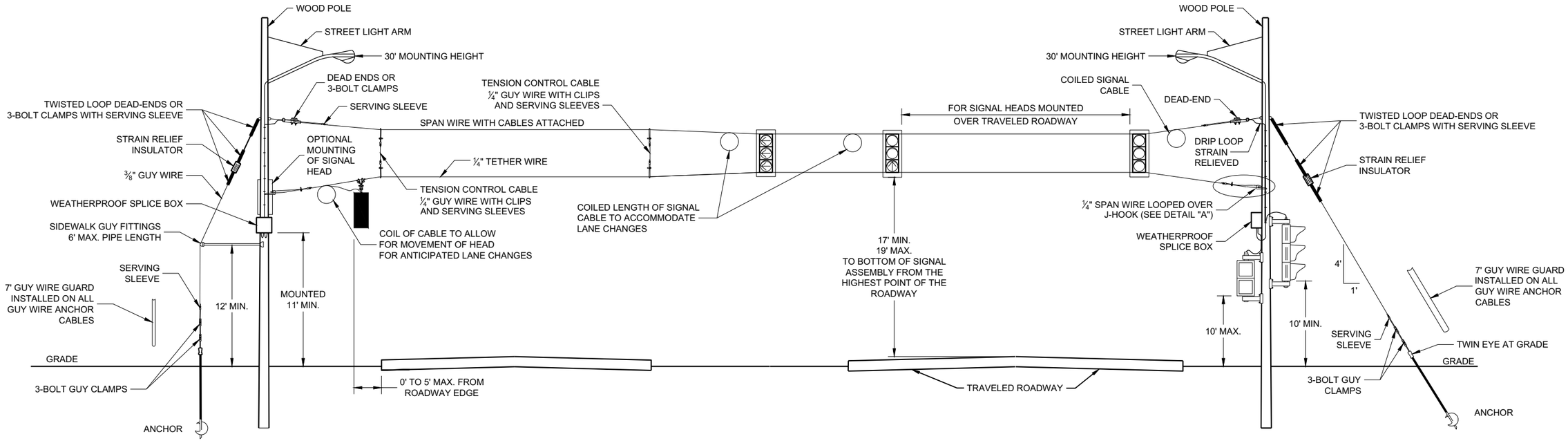


DETAIL "A"

GENERAL NOTES

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

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 477

FHWA

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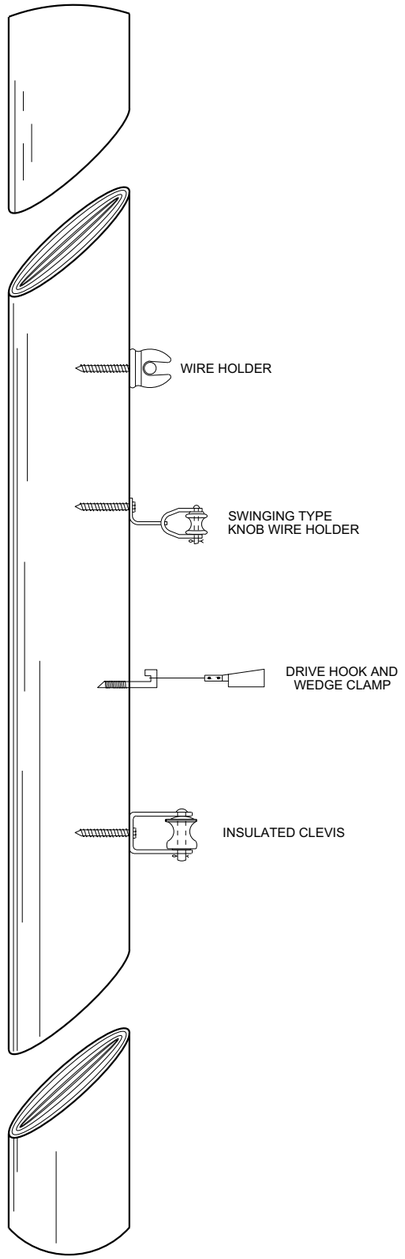
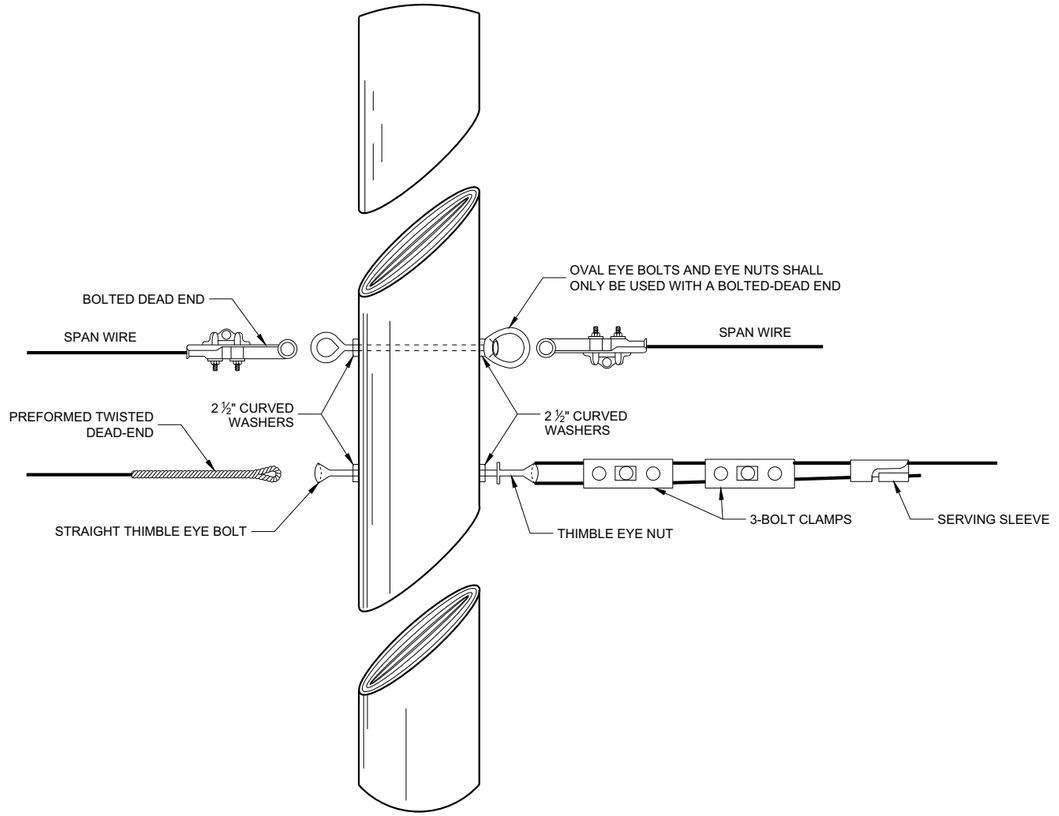
SDD09G01 - 04b

SDD09G01 - 04b





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SDD 09G01 - 4d

SDD 09G01 - 4d

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

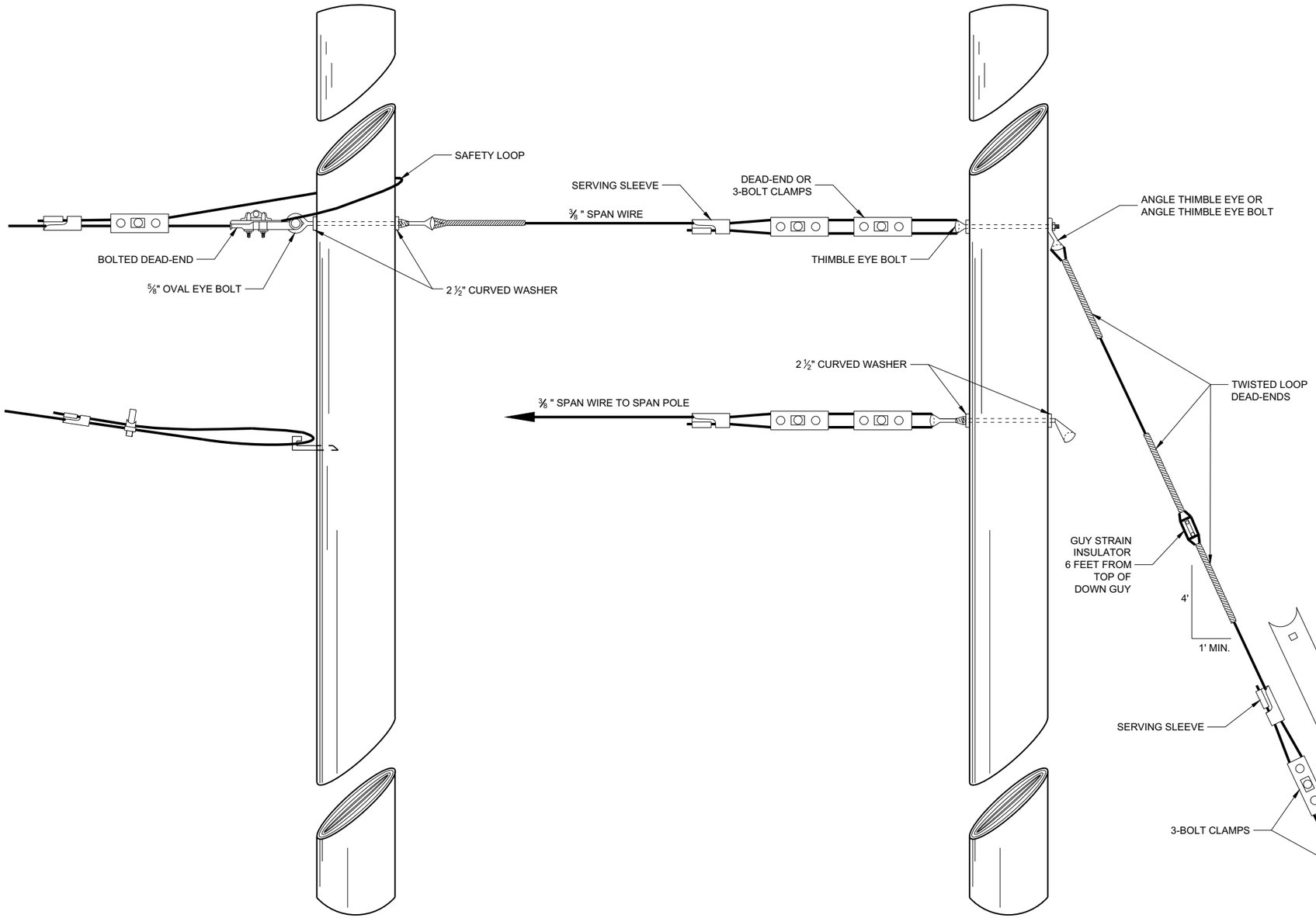
June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

FHWA

GENERAL NOTES

1. USE ¾" DRILL IN WOOD POLE TO PROVIDE FOR ⅝" BOLTS.
2. SAFETY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE

GUY POLE

TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE TEMPORARY TRAFFIC SIGNAL	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2015 DATE	/S/ Ahmet Demerbilek ROADWAY STANDARDS DEVE ENGINEER
FHWA	479

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SDD 09G01 - 4e

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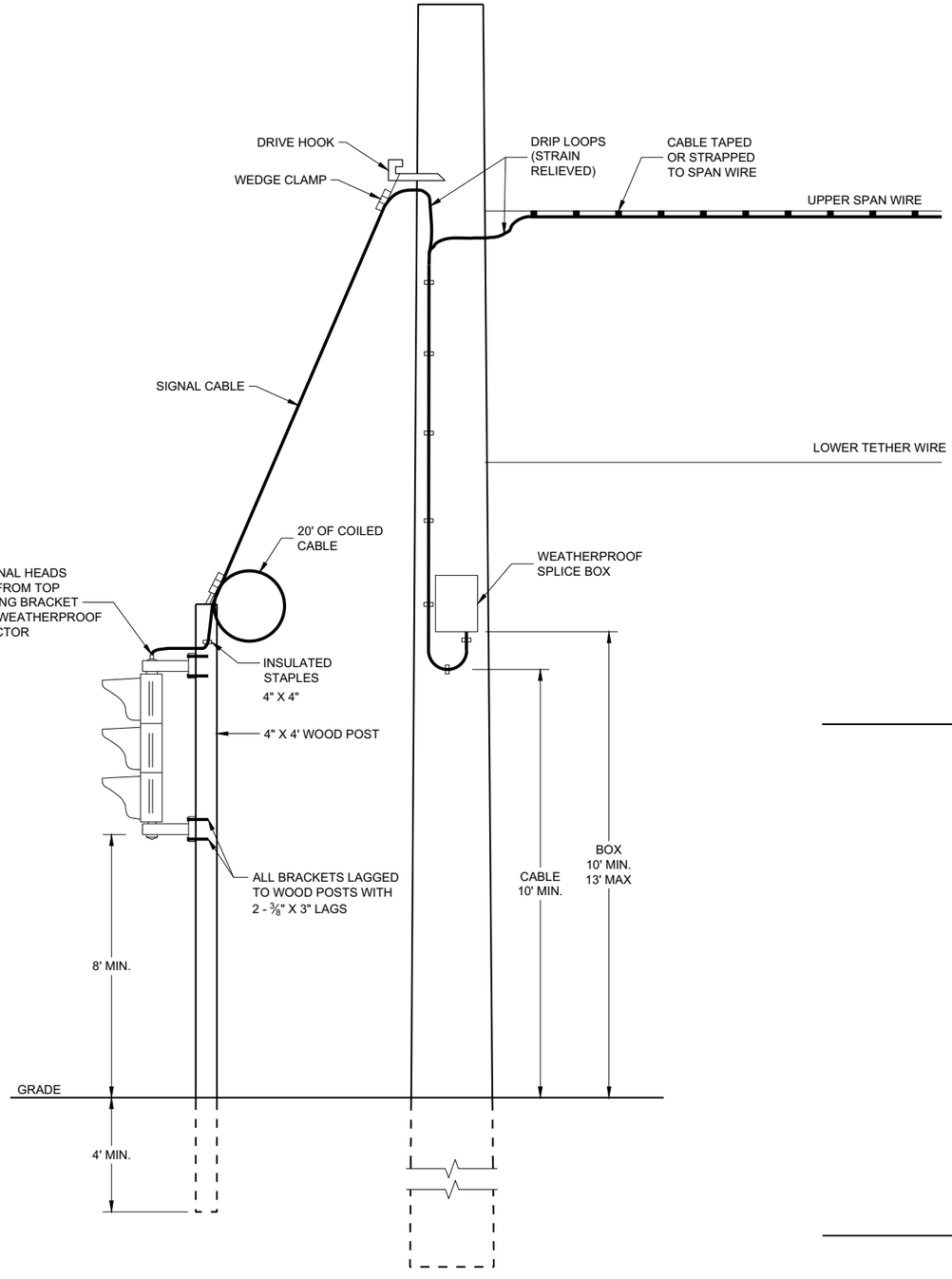
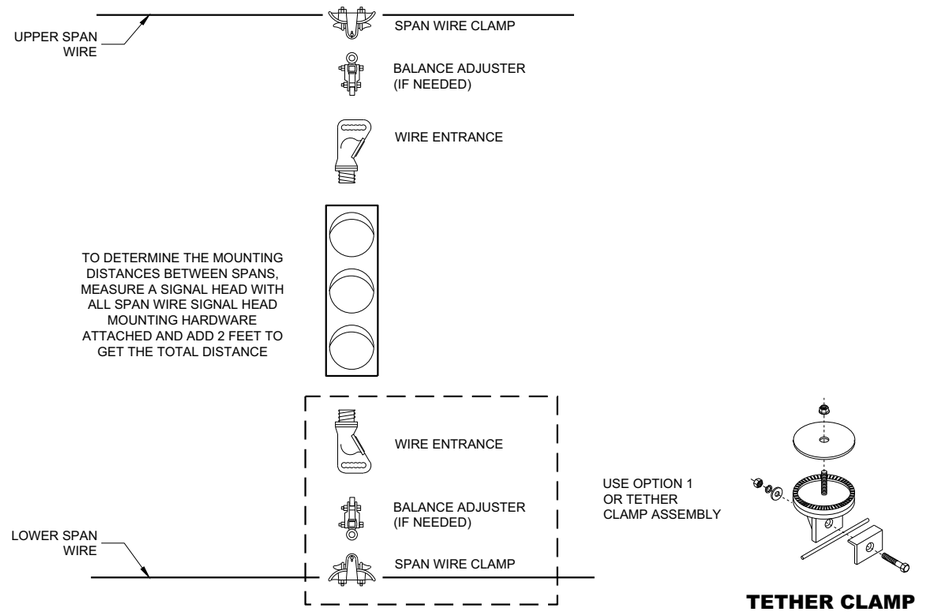
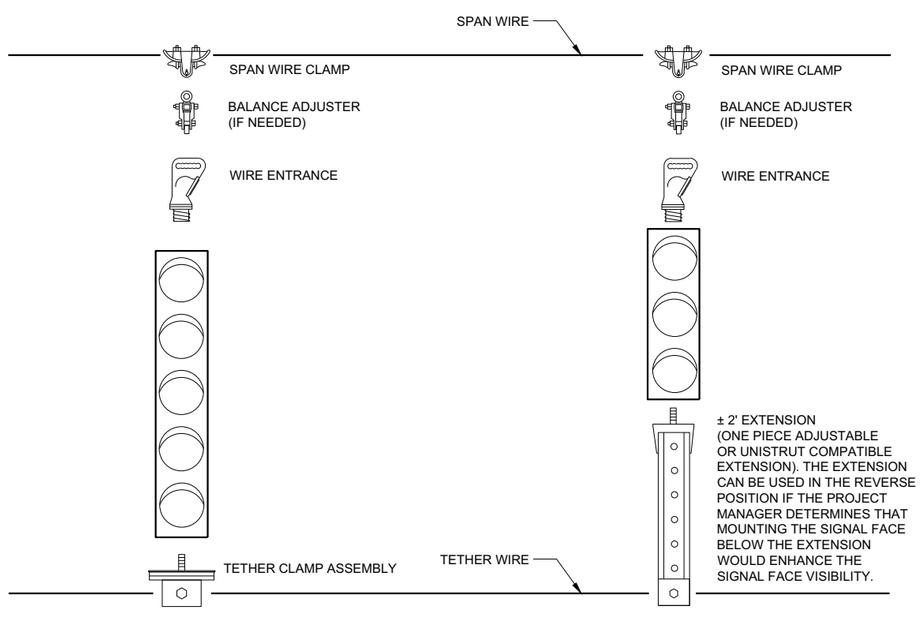
SDD 09G01 - 4e



TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — ROADWAY STANDARDS DEVE ENGINEER

FHWA

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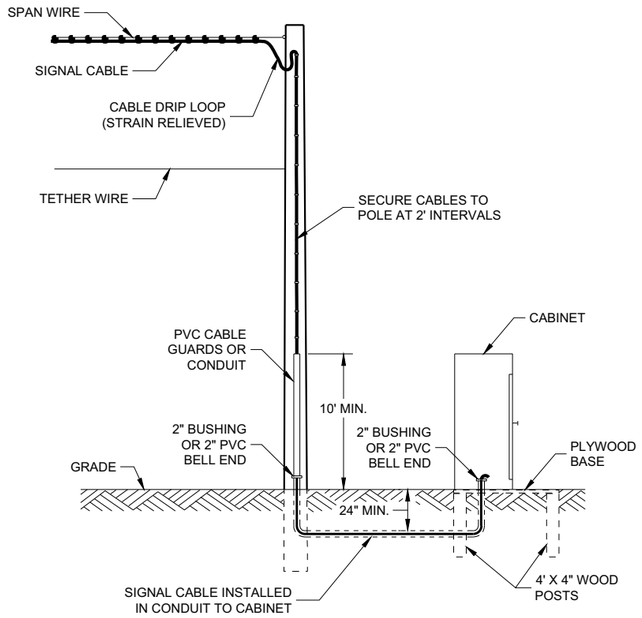
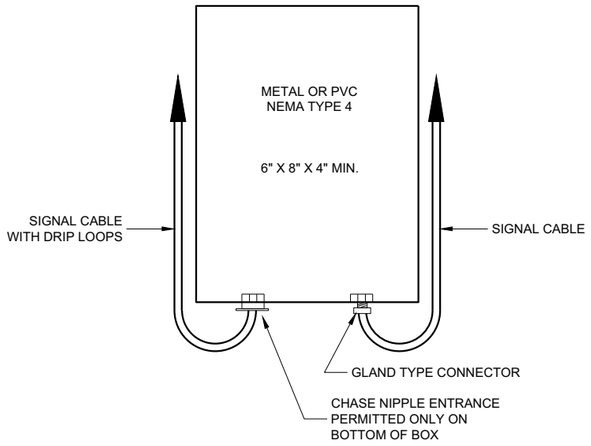
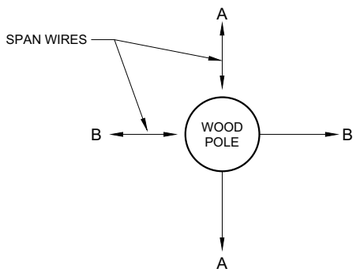
SDD 09G01 - 4f





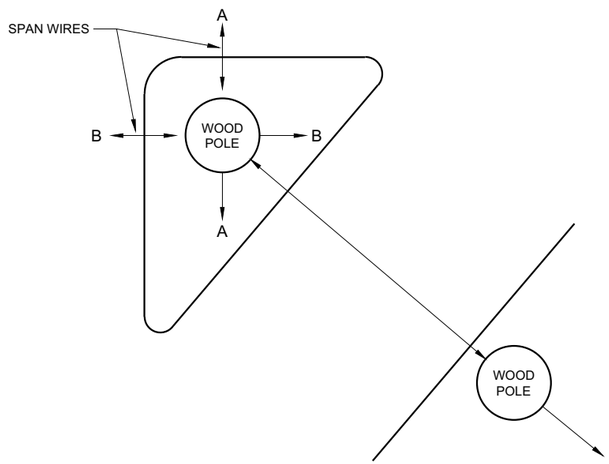
SPLICE BOX

TYPICAL SKID TYPE TEMPORARY

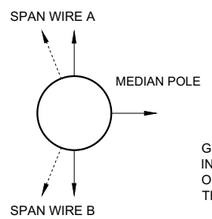


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



GUY AWAY FROM
INTERSECTION OR IN
OPPOSITE DIRECTION OF
THE SPAN LOADING

MEDIAN POLES

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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SDD 09G01 - 4g

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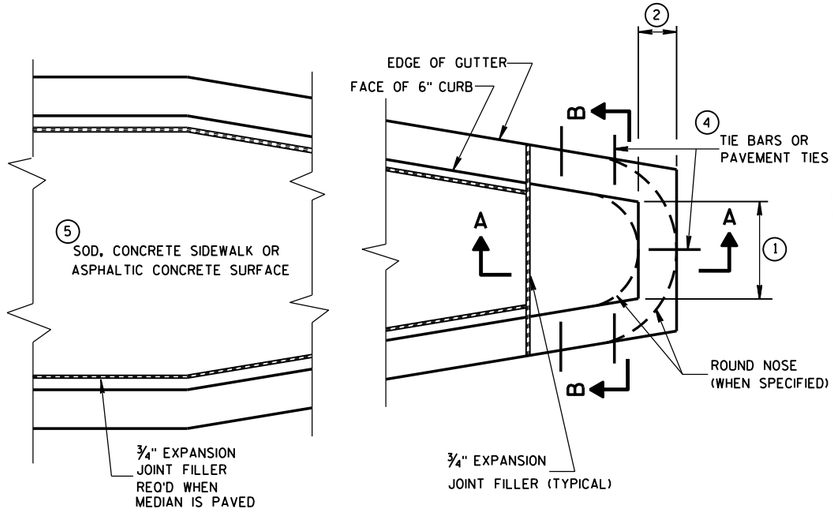
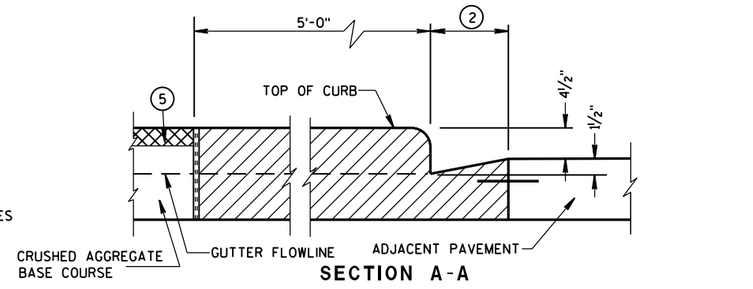
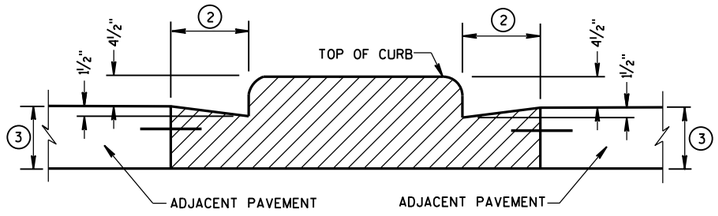






CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

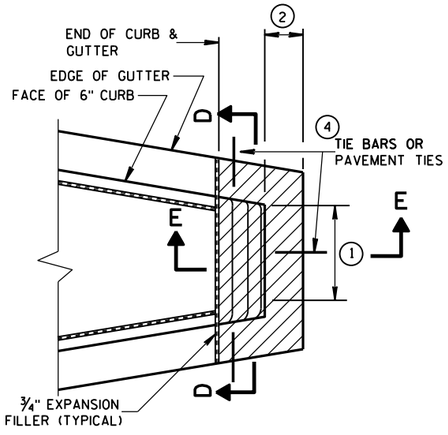
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

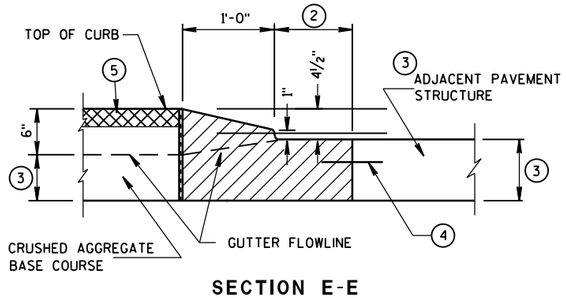
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

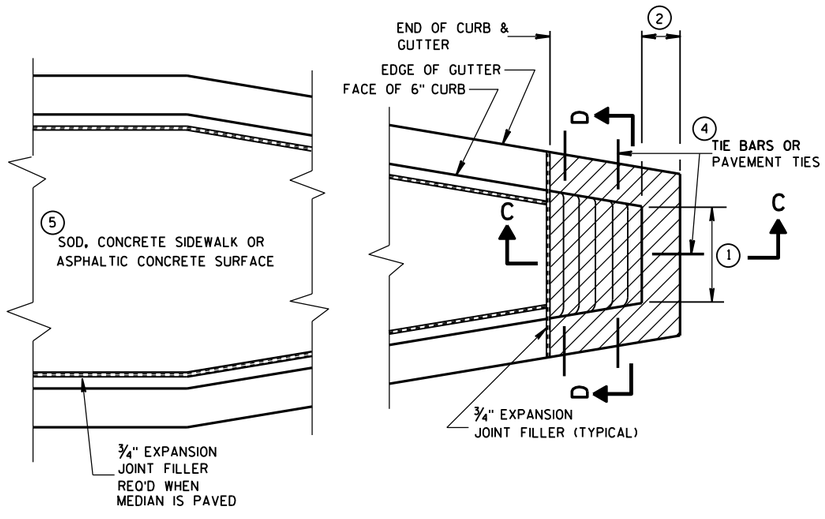
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

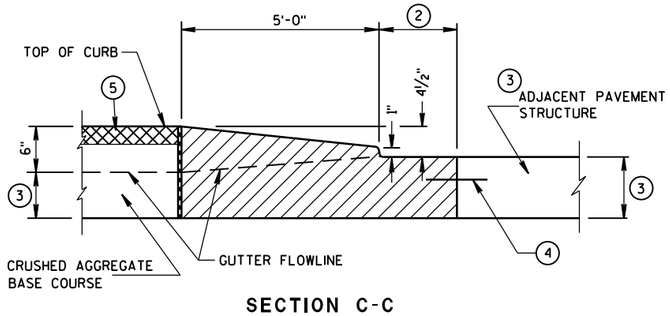
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



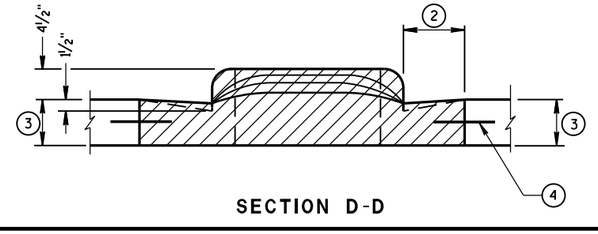


CONCRETE MEDIAN SLOPED NOSE TYPE 2





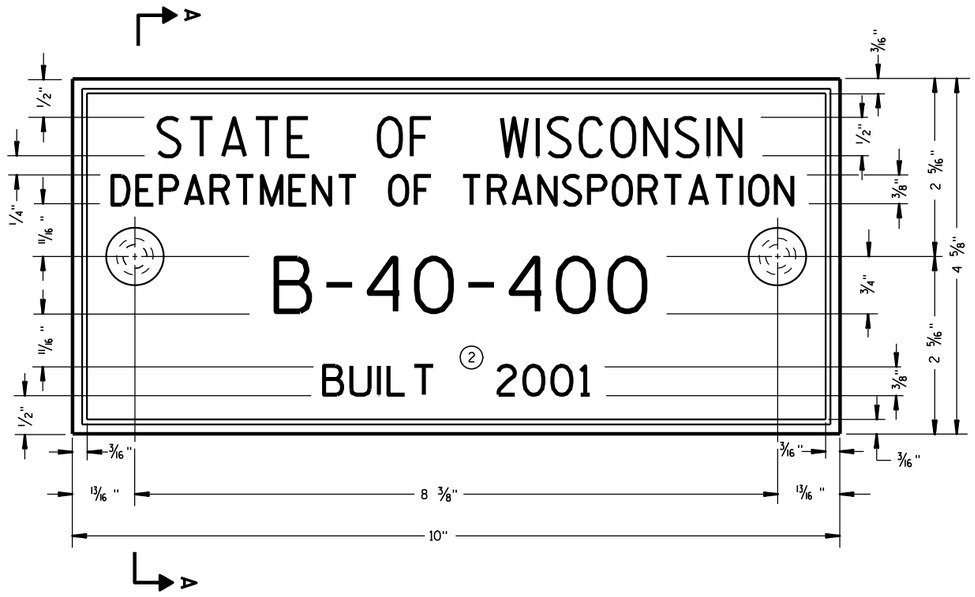
CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/8/2006 DATE FHWA	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

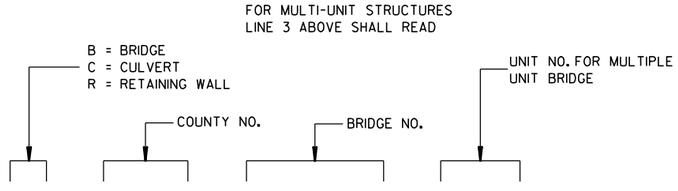
S.D.D. 11 B 2-2

S.D.D. 11 B 2-2



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

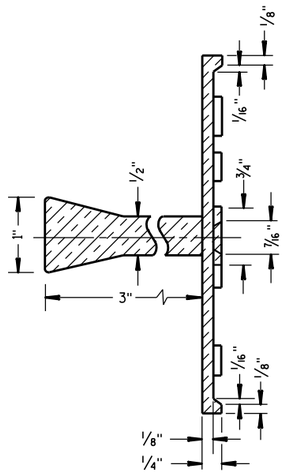
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

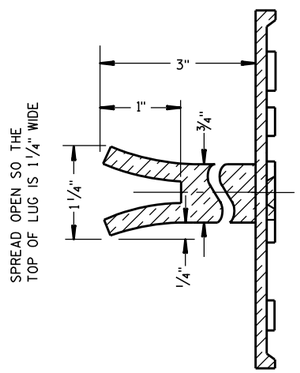
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

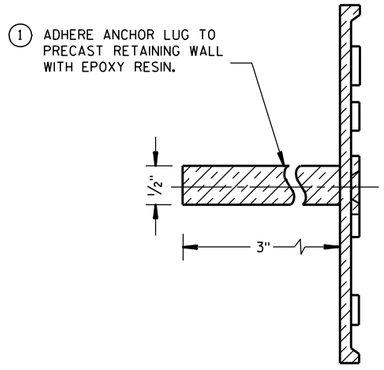
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
3/26/10 DATE	/S/ Scot Beck CHIEF STRUCTURAL DEVELOPMENT ENGINEER
FHWA	

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S.D.D. 12 A 3-10

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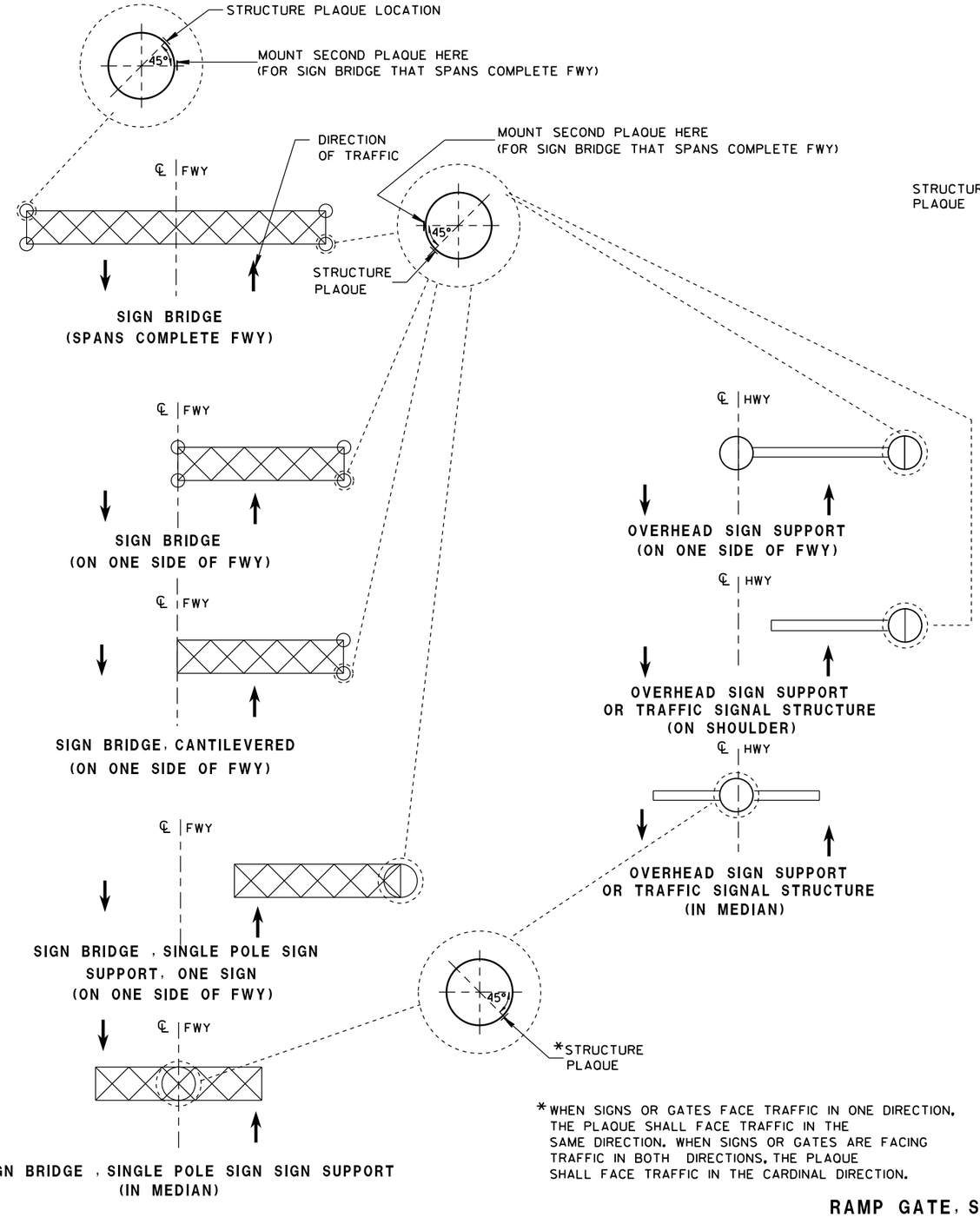
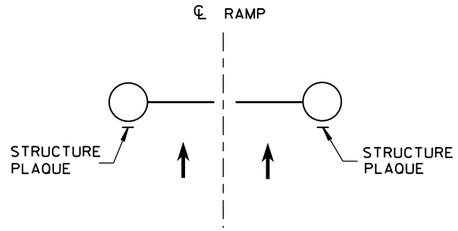
S.D.D. 12 A 3-10

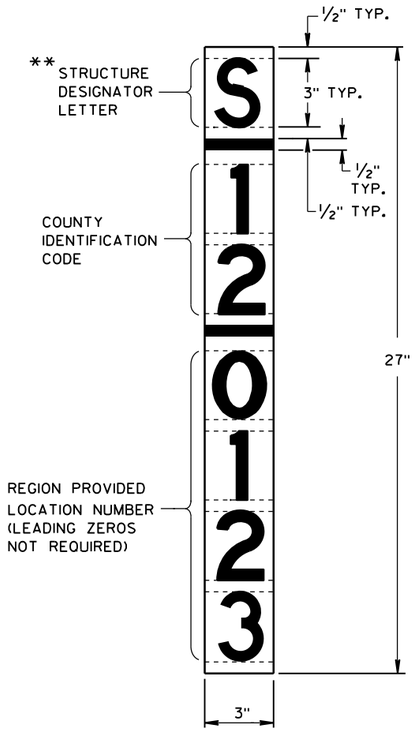


*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.

LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES



RAMP GATE
(ACROSS FWY ON-RAMP)



** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

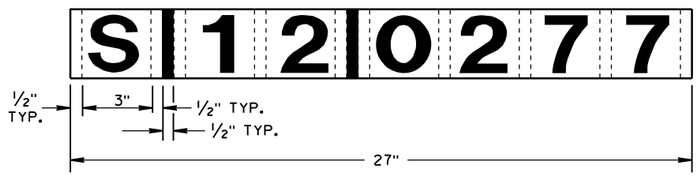
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 12 A 4-3

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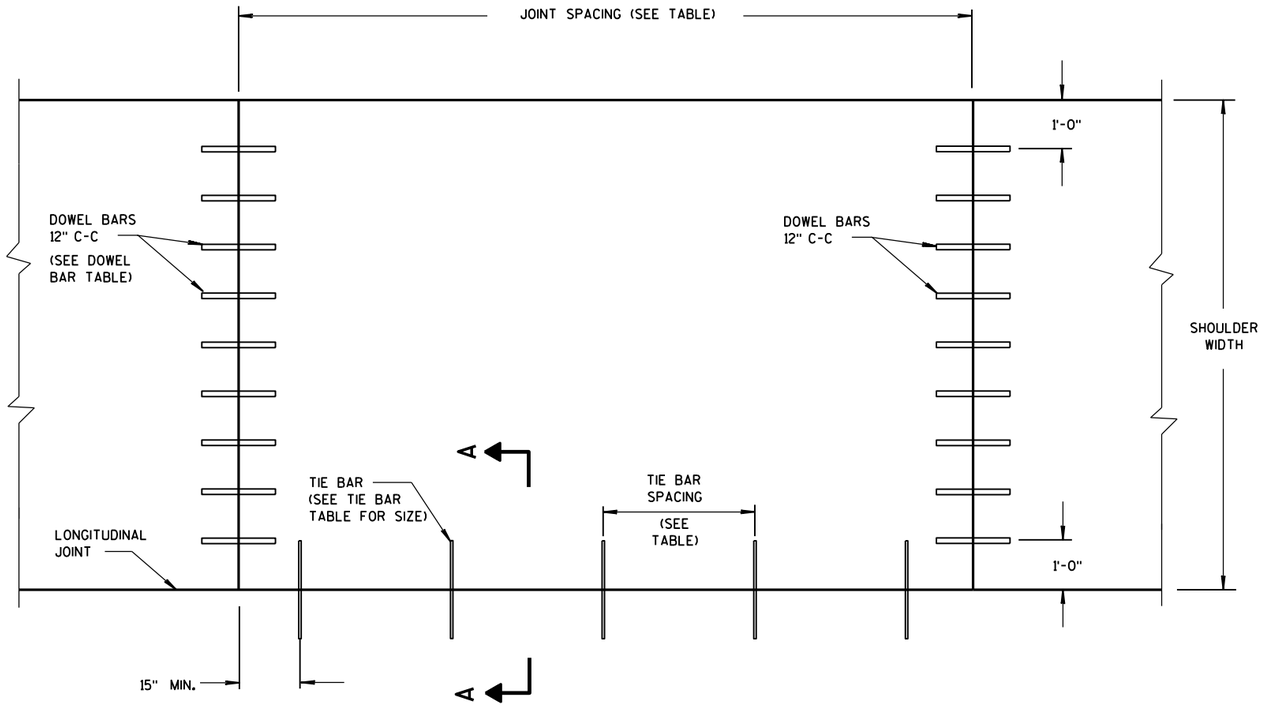
S.D.D. 12 A 4-3



PLAN VIEW

CONCRETE PAVEMENT SHOULDER

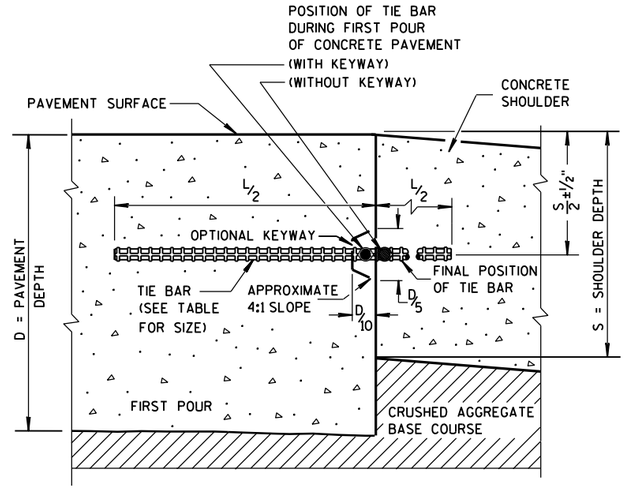
GENERAL NOTES

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

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	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.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER***	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

*** FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

CONCRETE PAVEMENT SHOULDERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

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S.D.D. 13 A 3-6

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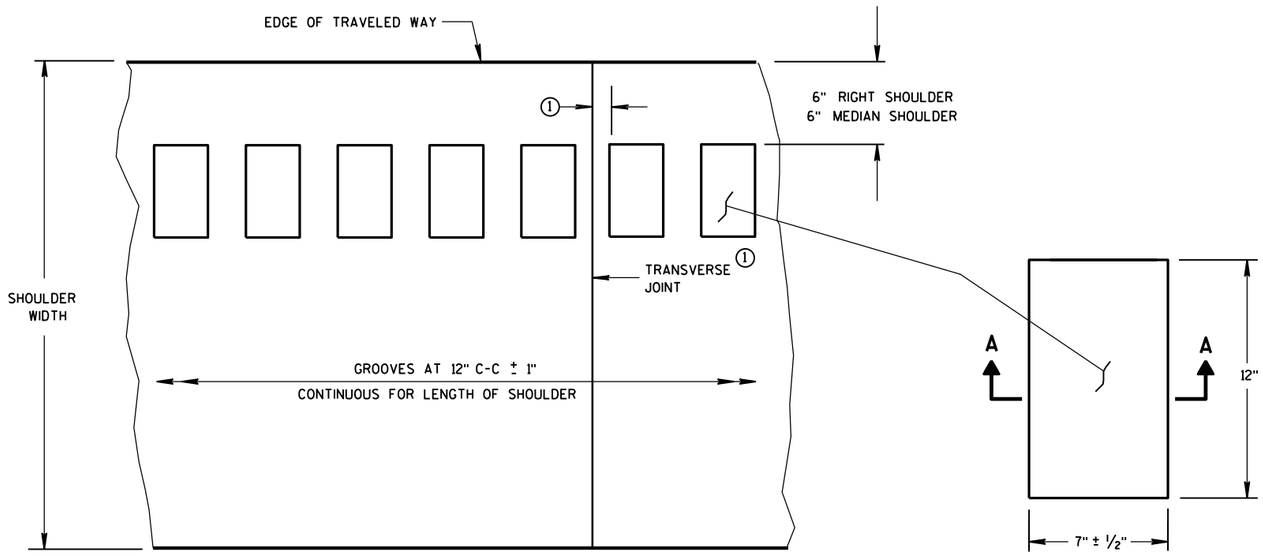
S.D.D. 13 A 3-6



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

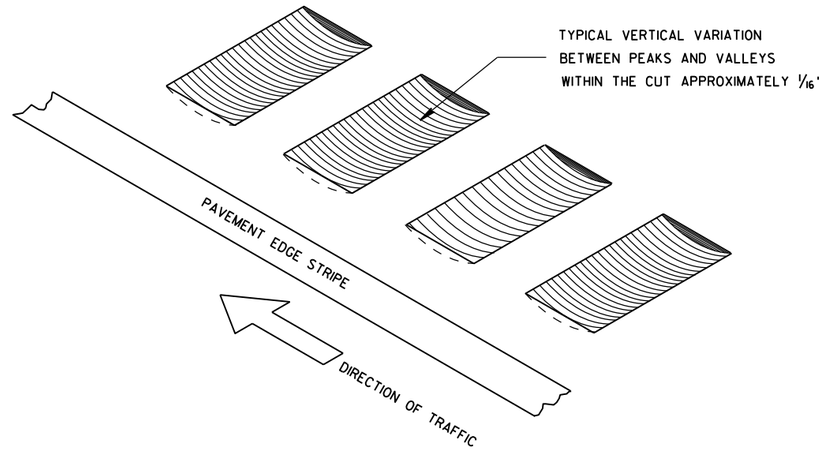
GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



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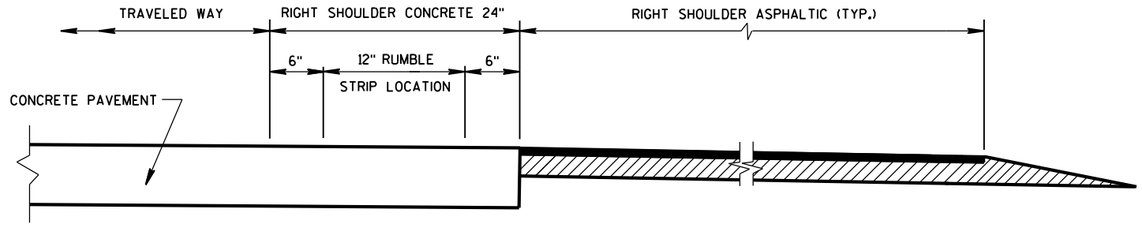
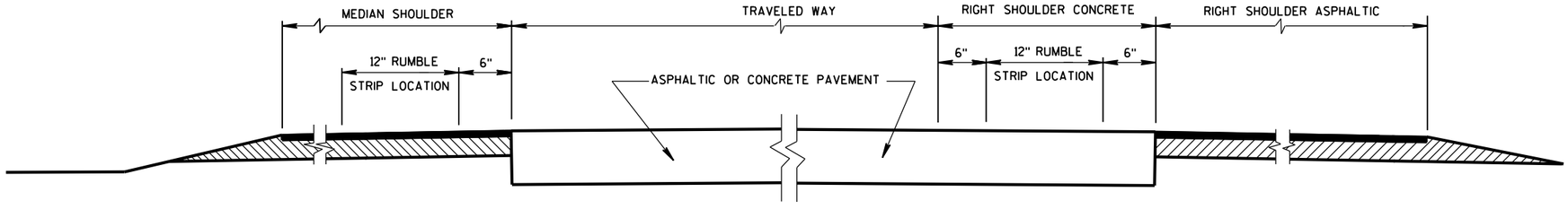


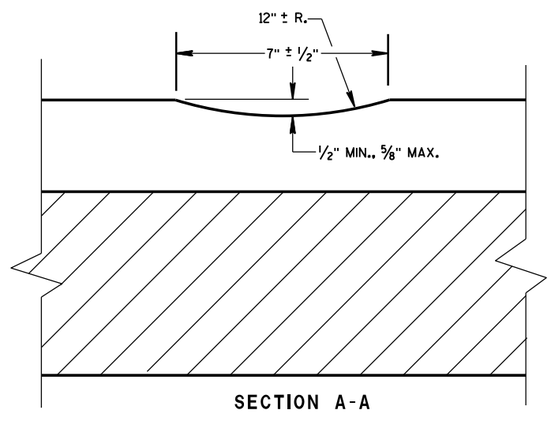
SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS IN RURAL DIVIDED HIGHWAYS

(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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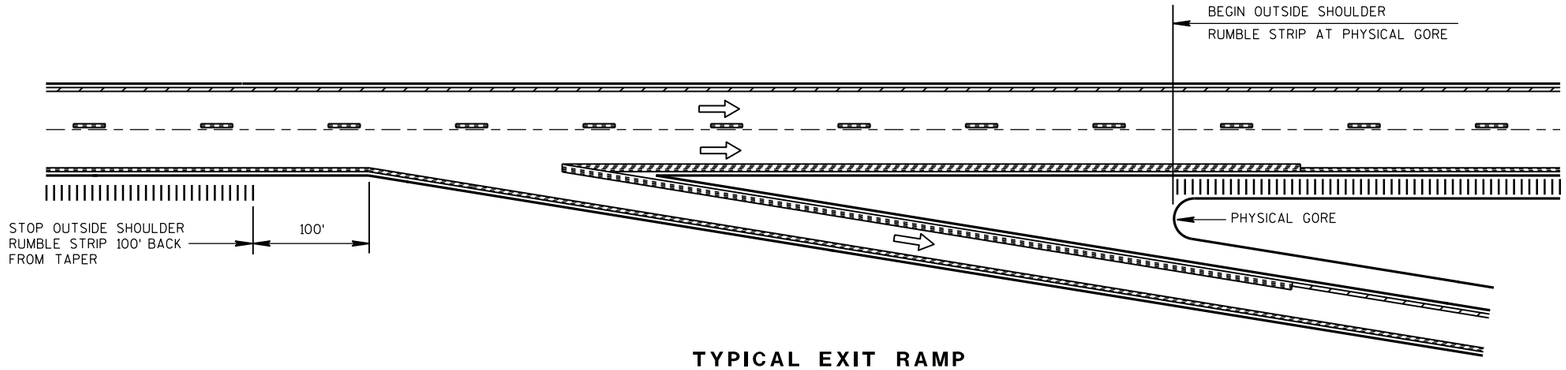


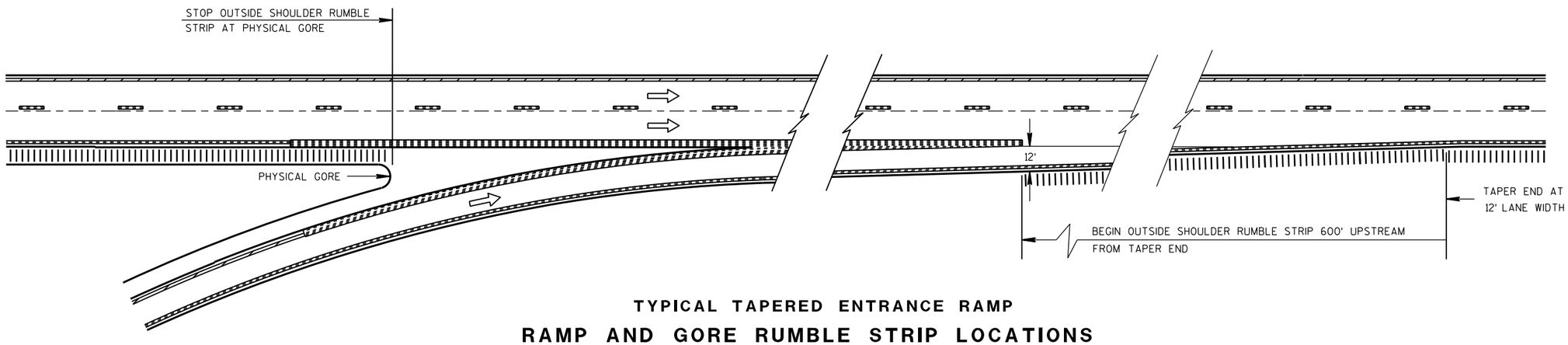
TYPICAL EXIT RAMP

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

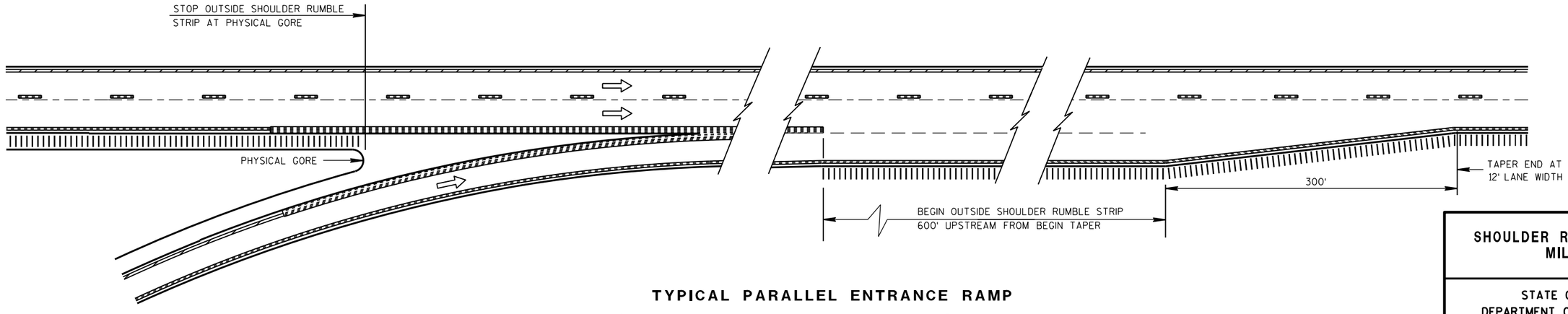
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/17/2012 DATE
/S/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER
FHWA

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S.D.D. 13 A 5-5b

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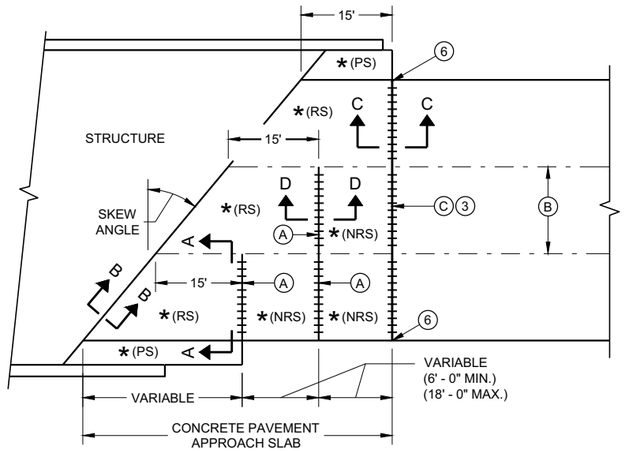
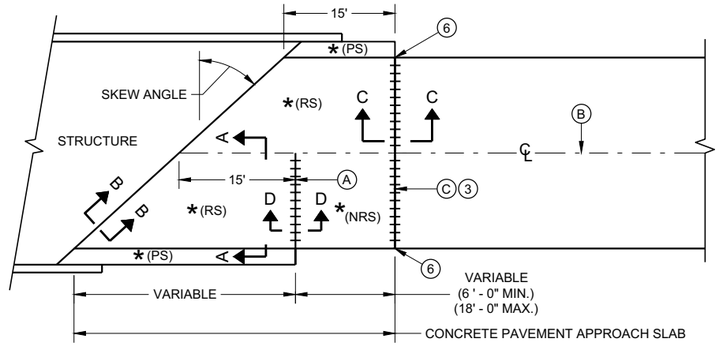
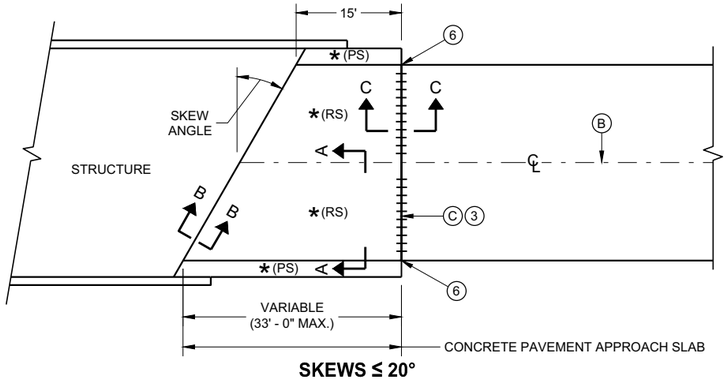
S.D.D. 13 A 5-5b



SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)



SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')



SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

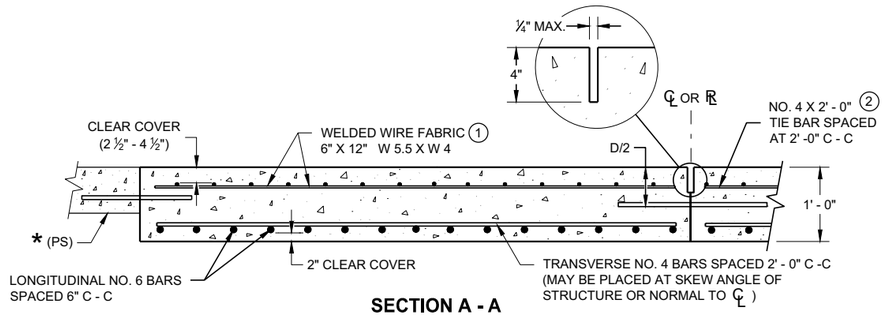
APPROACH SLAB AND ADJACENT PAVEMENT

* (RS) = REINFORCED CONCRETE SLAB

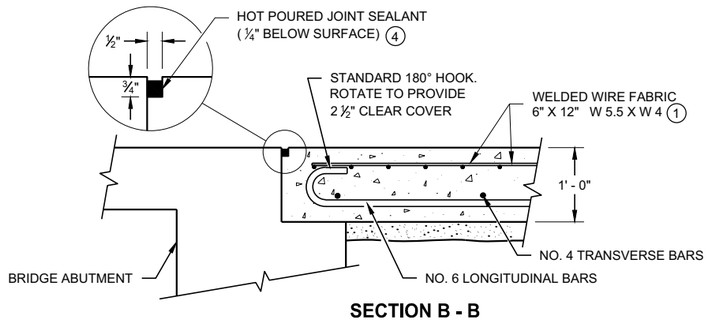
* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

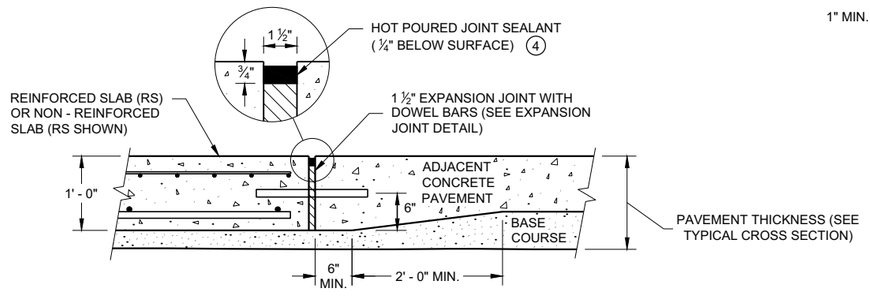
*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

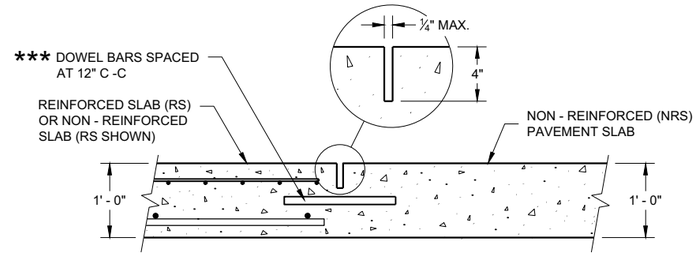
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

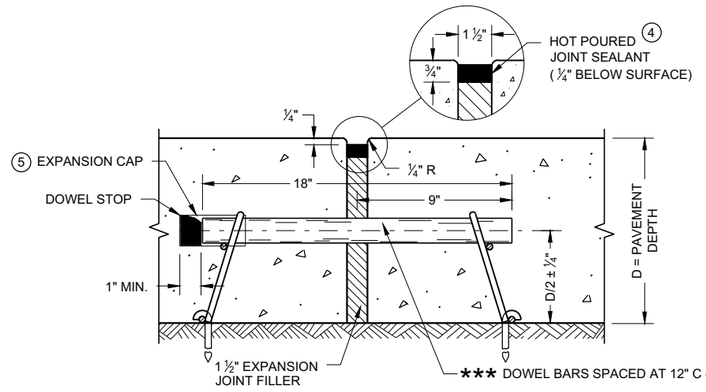
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



SECTION D - D
CONTRACTION JOINT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

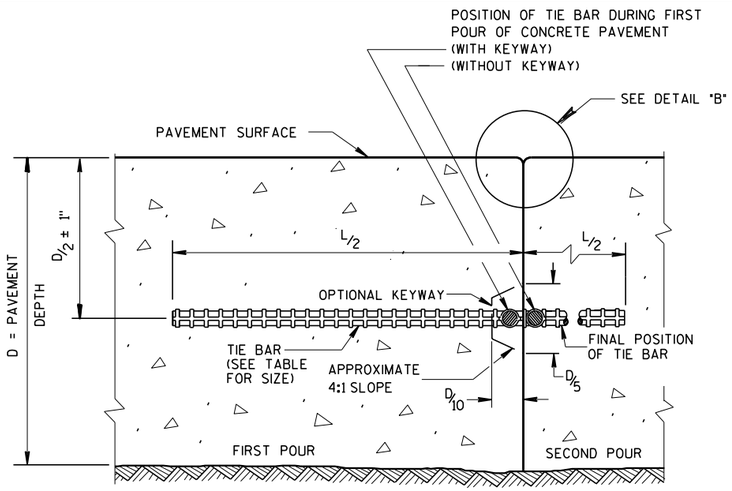
APPROVED
November 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVISOR

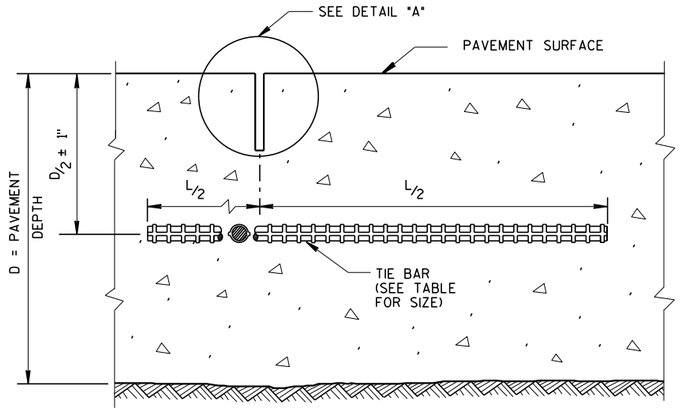
FHWA

6

SDD 13B02 - 09a



CONSTRUCTION JOINT



SAWED JOINT

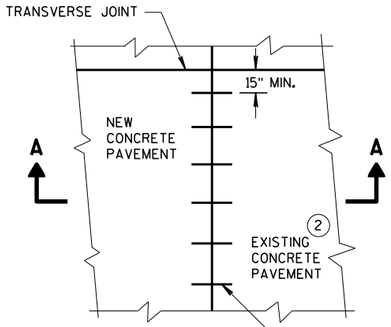
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

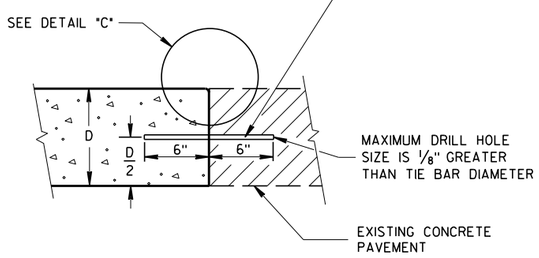
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

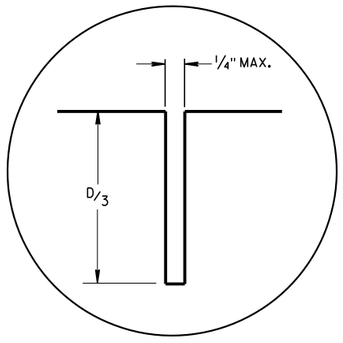


PLAN VIEW

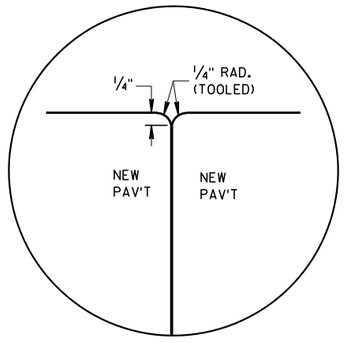


SECTION A-A

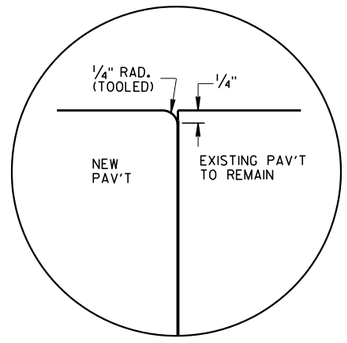
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



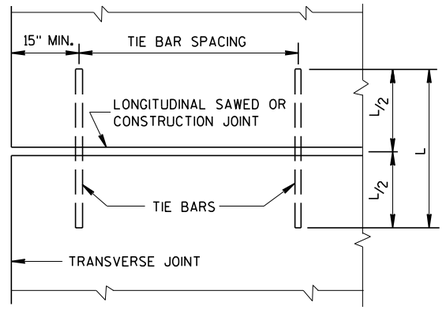
DETAIL "C"

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.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT
LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE
/S/ Peter Kemp PE
PAVEMENT SUPE
FHWA

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S.D.D. 13 C 1-19

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S.D.D. 13 C 1-19

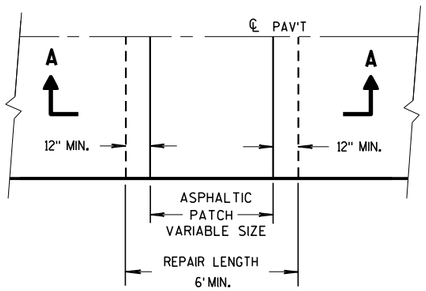
GENERAL NOTES

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.

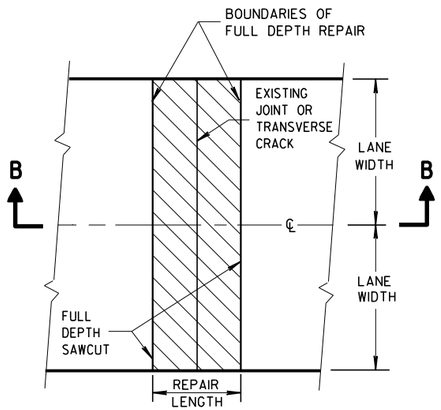
PROVIDE A 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

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.

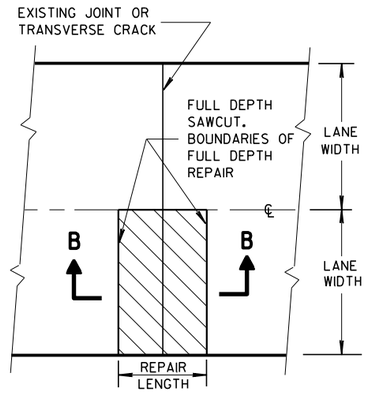
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW

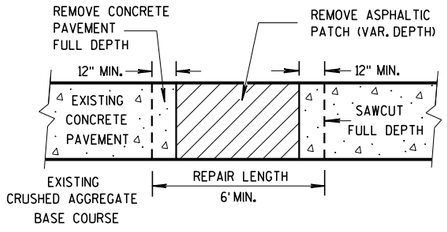


PLAN VIEW
(DOUBLE LANE REPAIR)



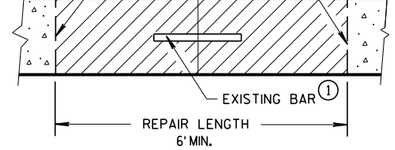
PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

HMA PATCH REMOVAL



SECTION B-B

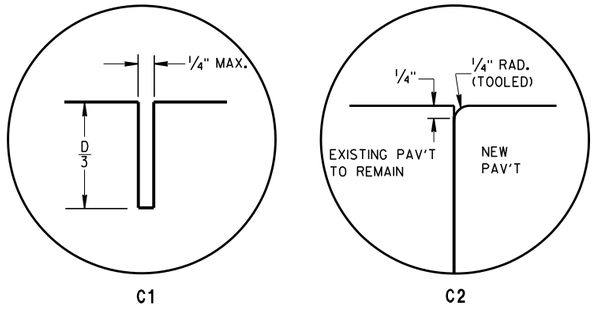
CONCRETE REMOVAL

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 13 C 9-15a



C1 C2

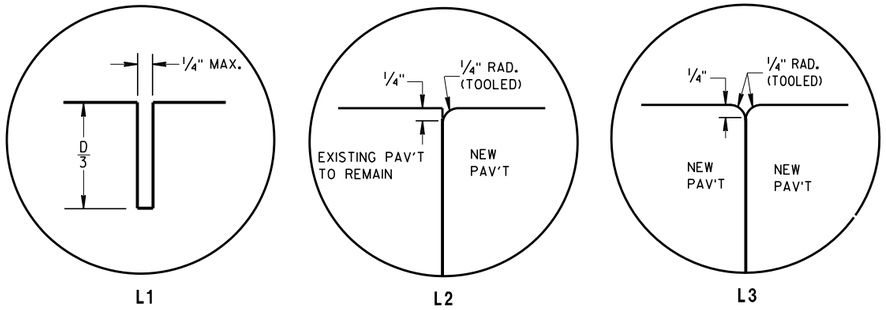
TRANSVERSE JOINTS

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"**

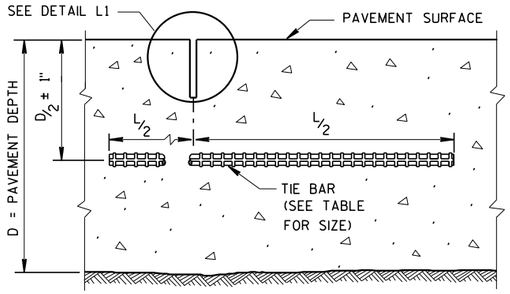
* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** 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

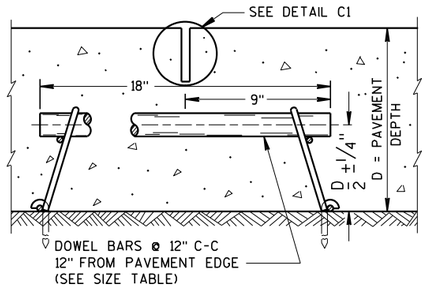
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

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.

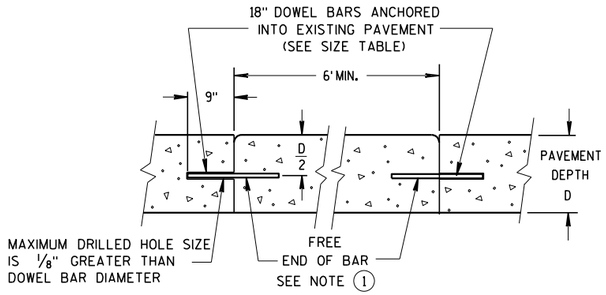
FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

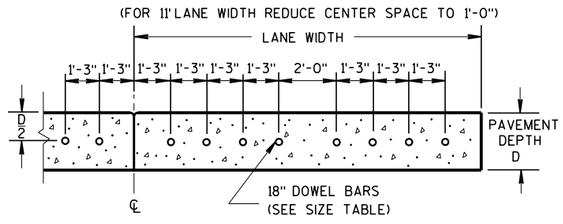


SECTION F-F

CONTRACTION JOINT



SECTION D-D

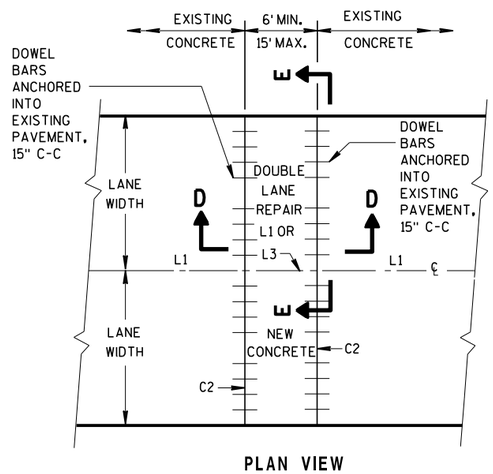


SECTION E-E

DRILLED DOWEL BAR CONSTRUCTION JOINT

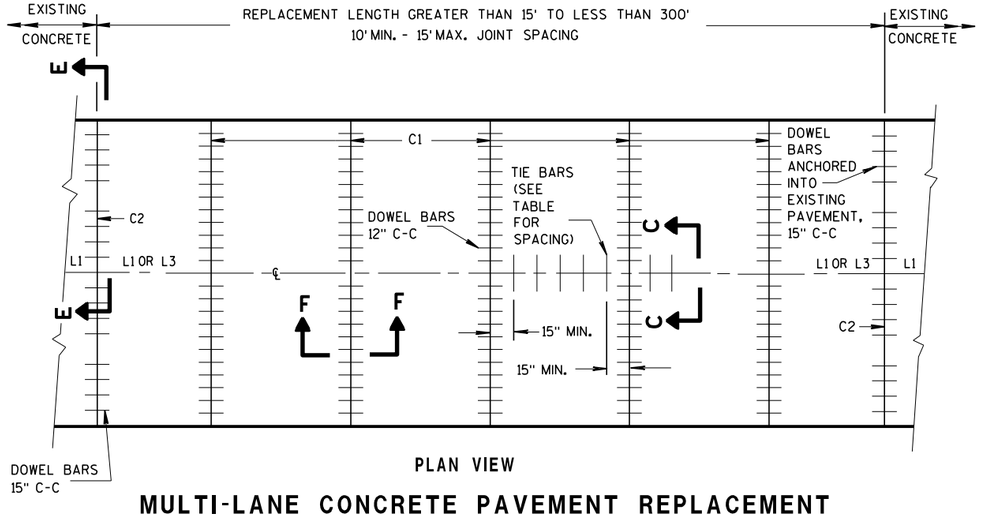
PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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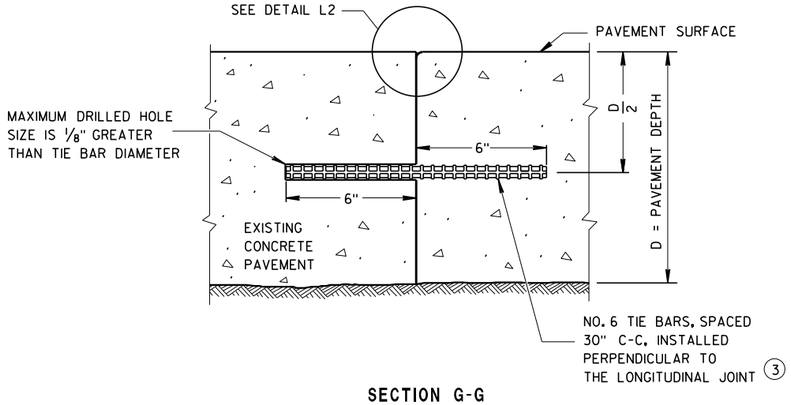
S.D.D. 13 C 9-15b



SECTION G-G

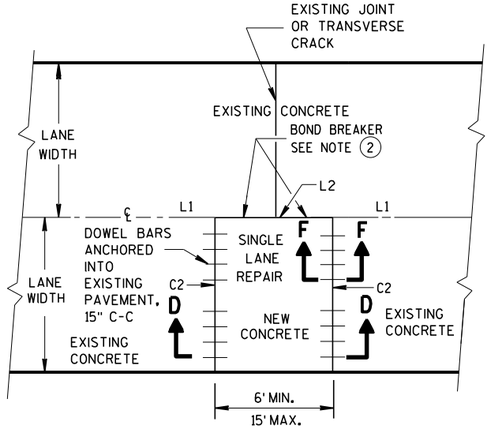
TIE BARS ANCHORED INTO EXISTING PAVEMENT

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.

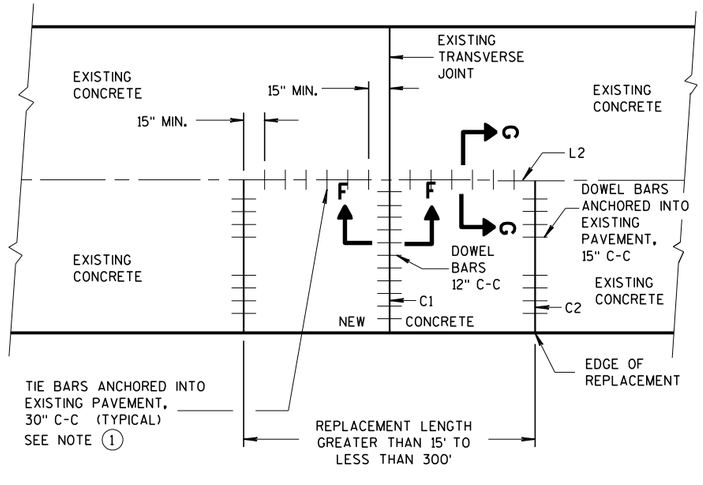
(2) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.

(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

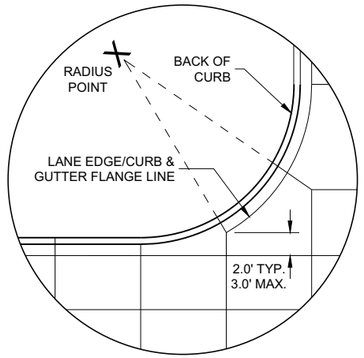
APPROVED

March 2018
DATE

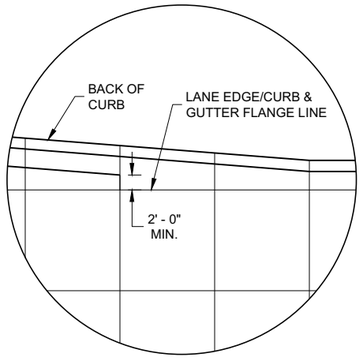
/S/ Peter Ken...
PAVEMENT SUPE...

FHWA

S.D.D. 13 C 9-15c



DETAIL "A"



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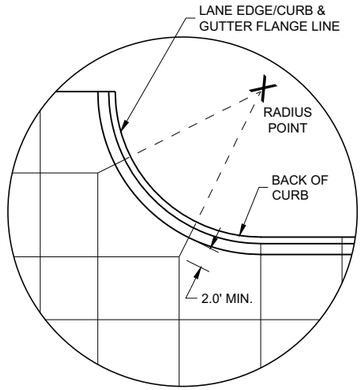

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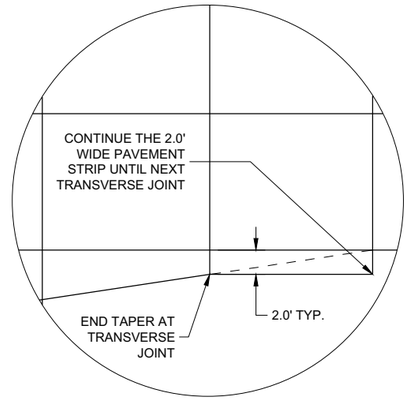


DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

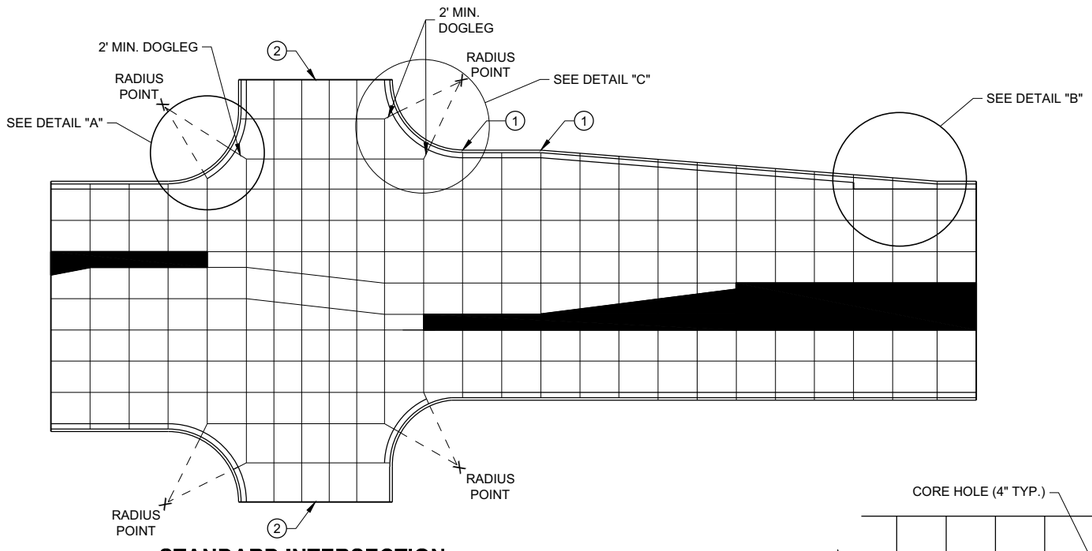
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

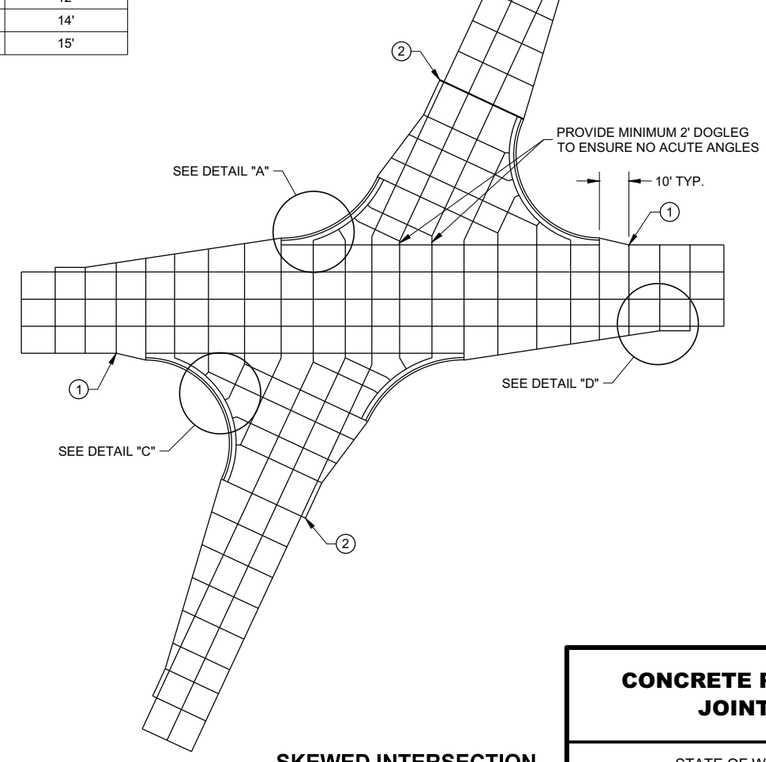
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



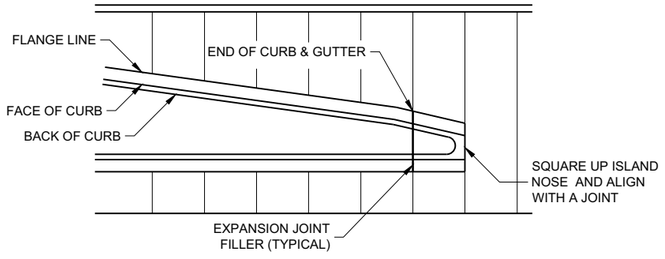
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

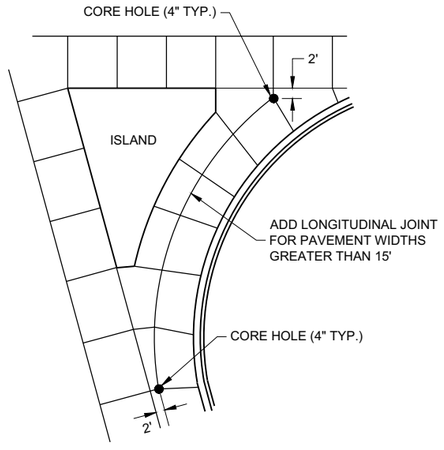
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 13C18 - 07a

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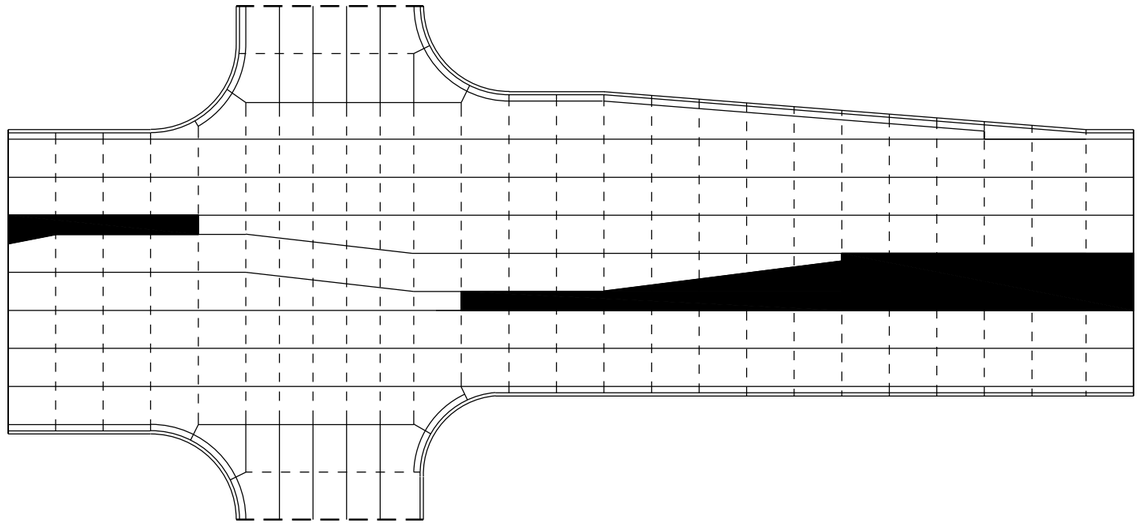
LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

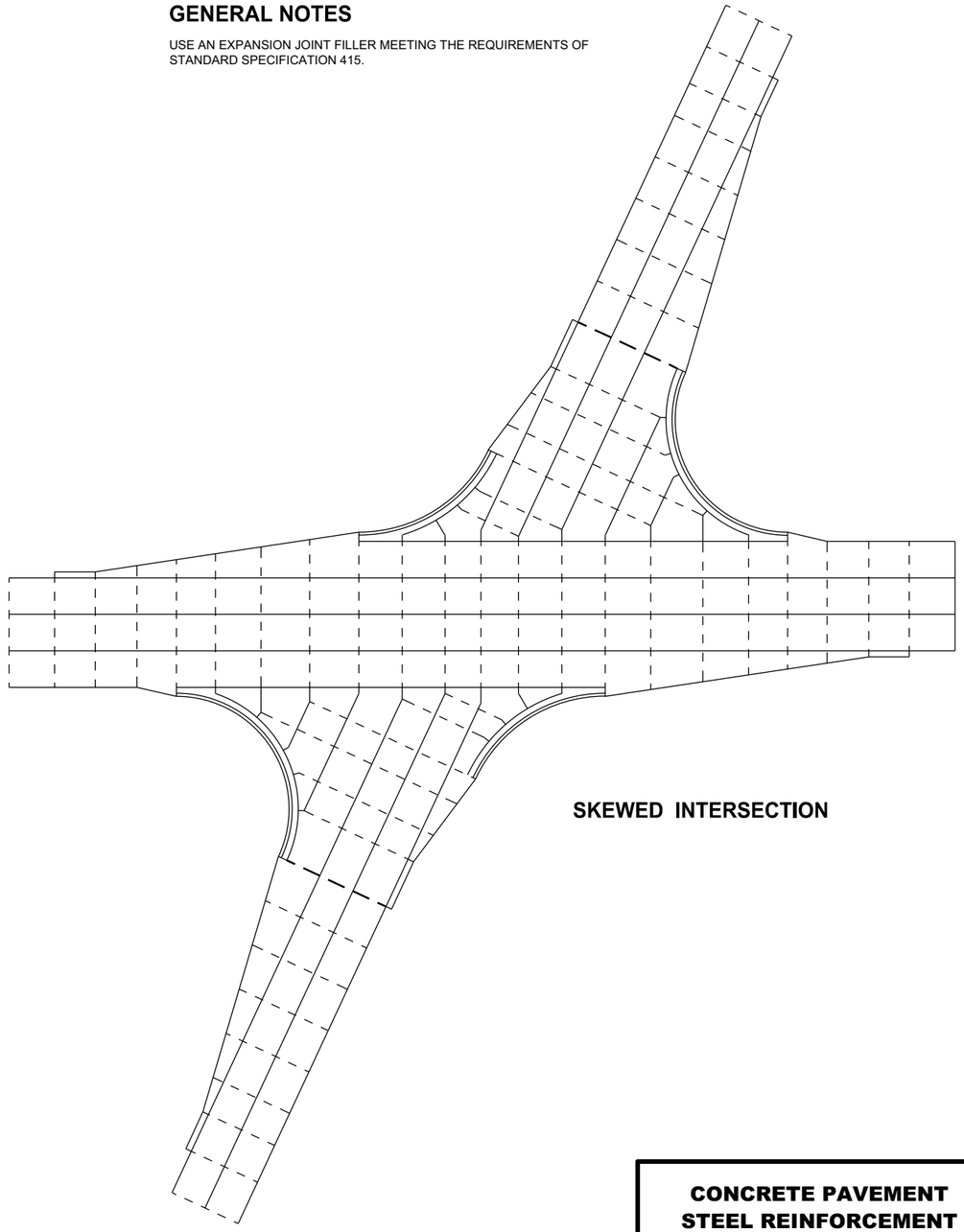
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

SDD 13C18 - 07b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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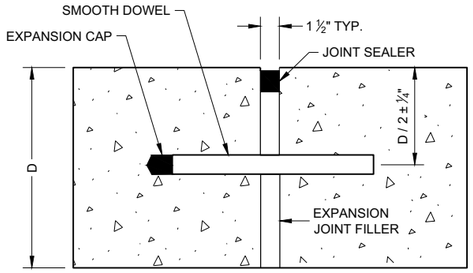
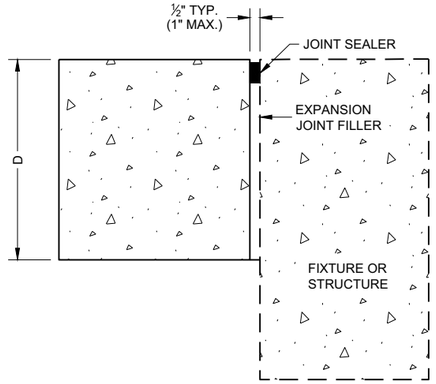
SDD 13C18 - 07b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

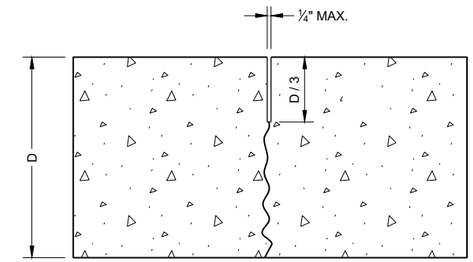
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

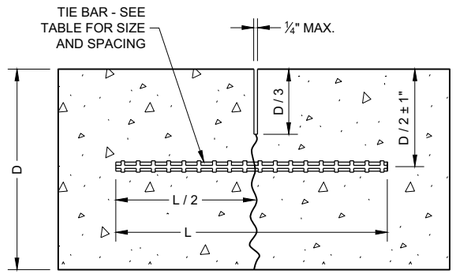
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

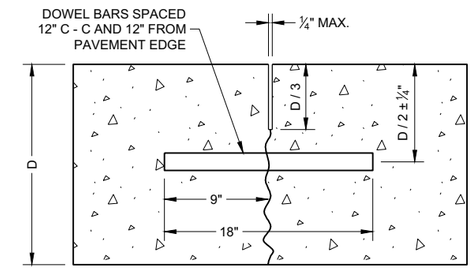
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

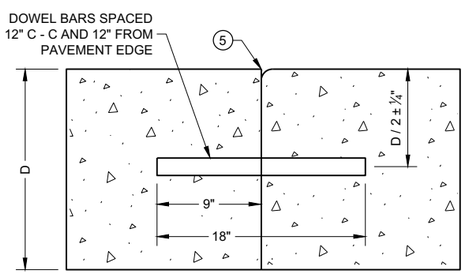


TIED LONGITUDINAL

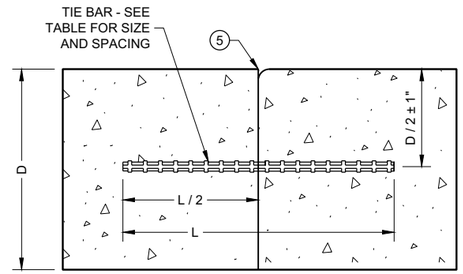


DOWELED TRANSVERSE

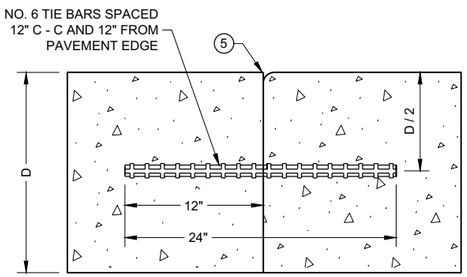
CONTRACTION JOINTS (2)



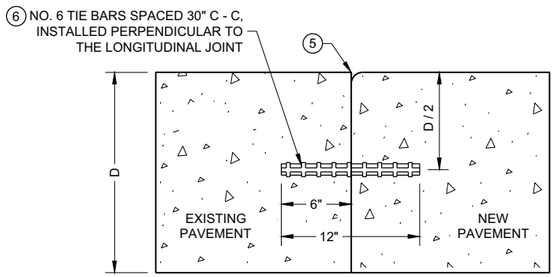
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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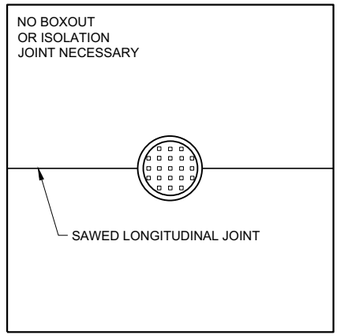
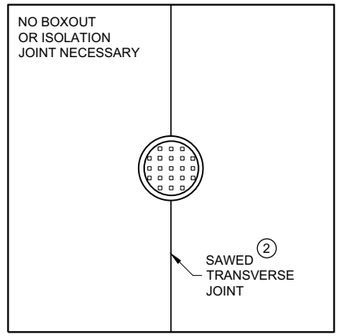
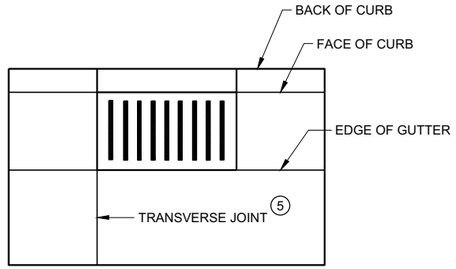
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



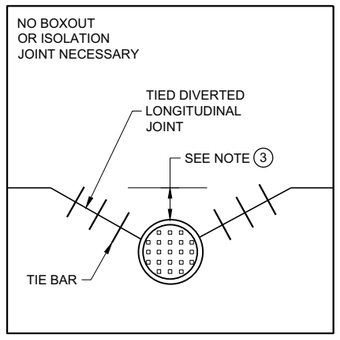
MANHOLE WITH TRANSVERSE JOINT



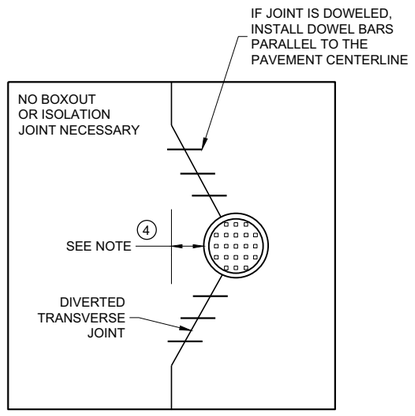
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

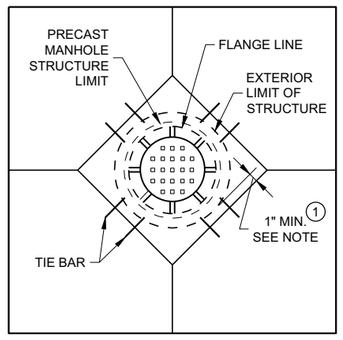
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF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



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISOR

FHWA

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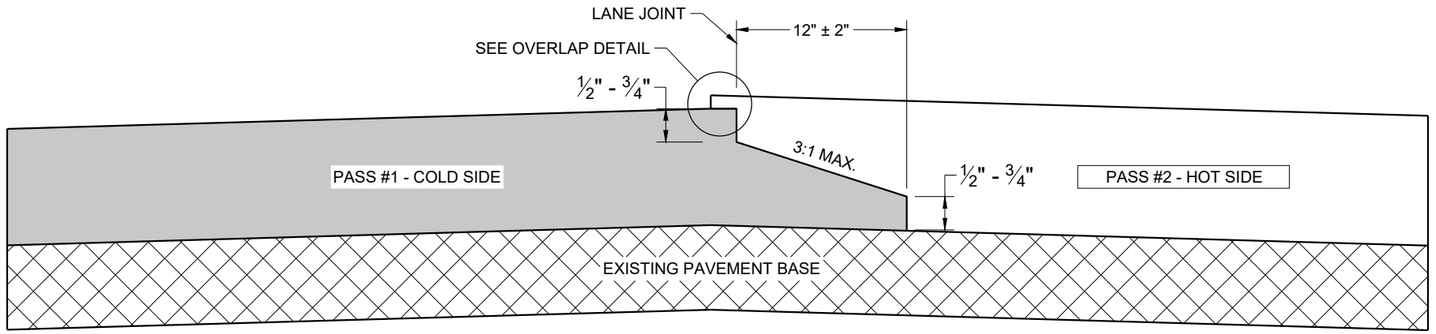
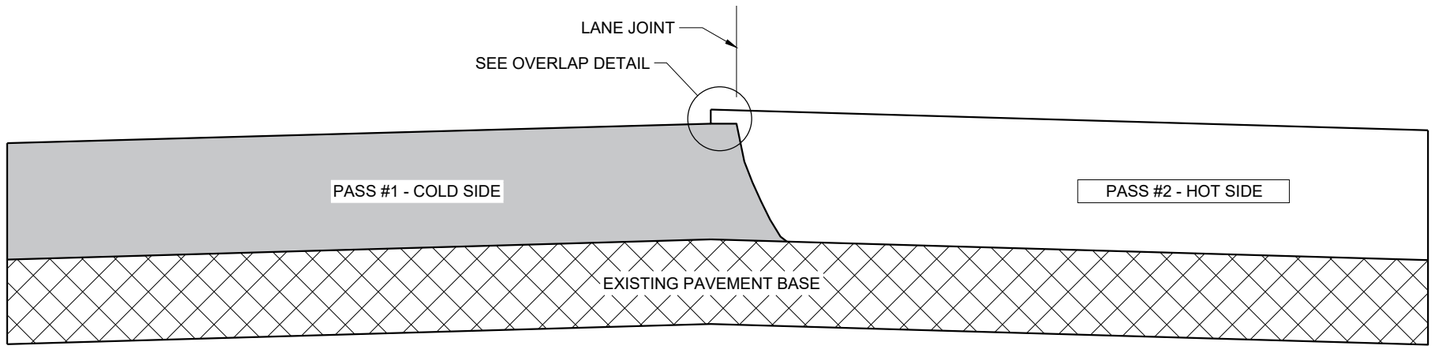
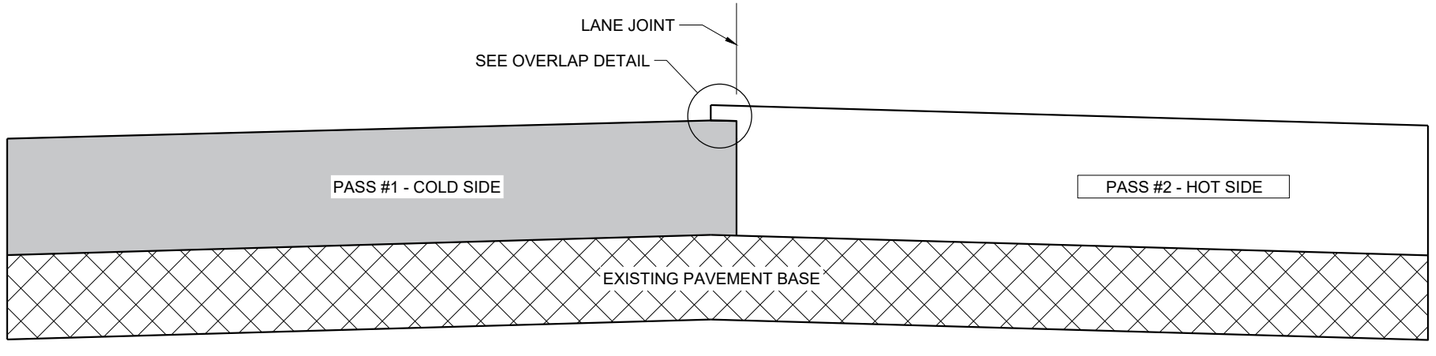
SDD 13C18 - 07d



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

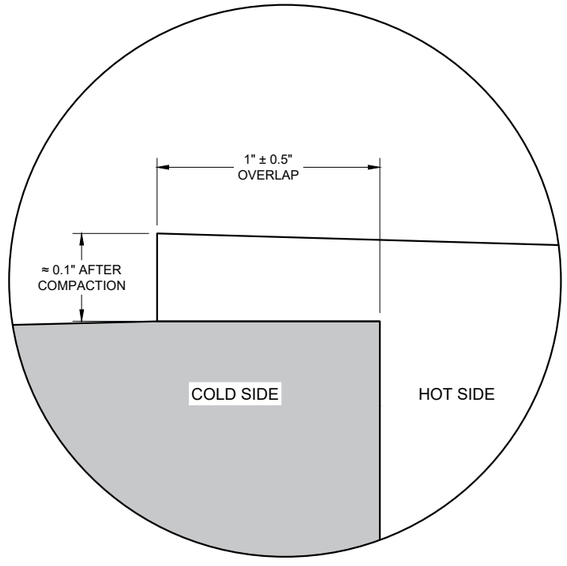
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

HMA LONGITUDINAL JOINTS

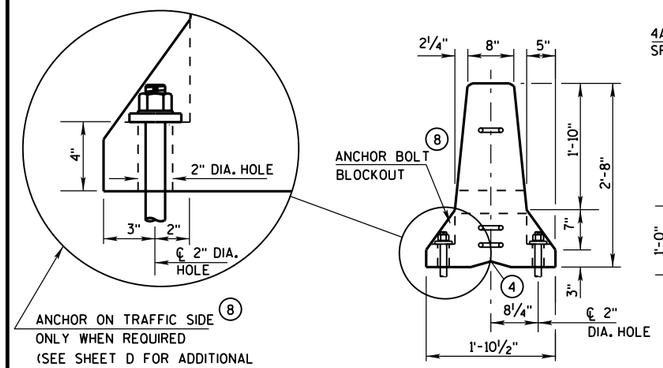
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

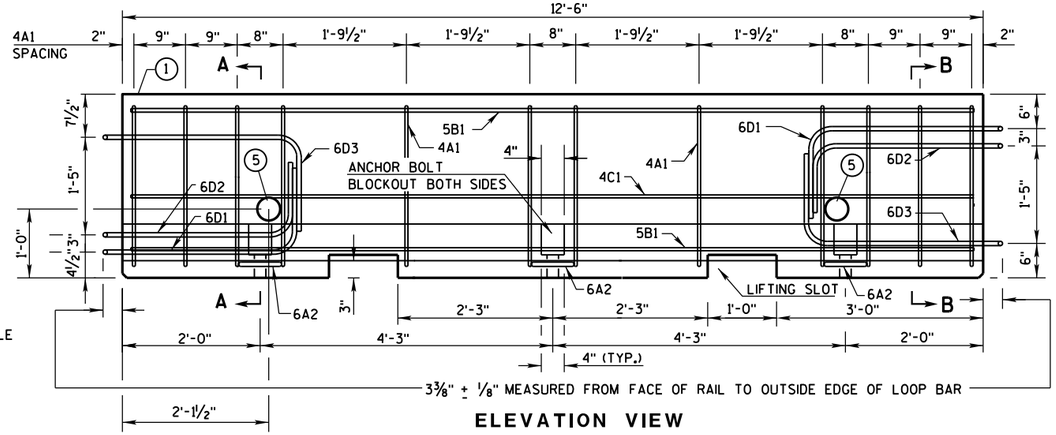
/S/ Steven Hefel
HMA PAVEMENT ENGIN

497

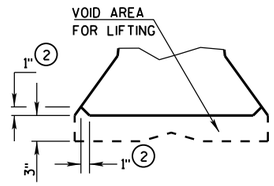
FHWA



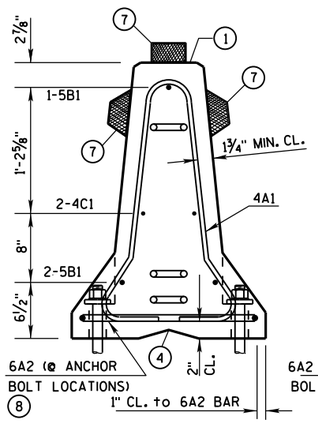
END VIEW



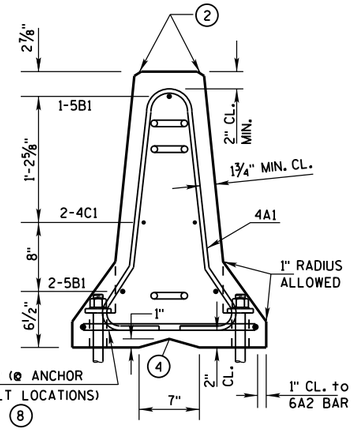
ELEVATION VIEW



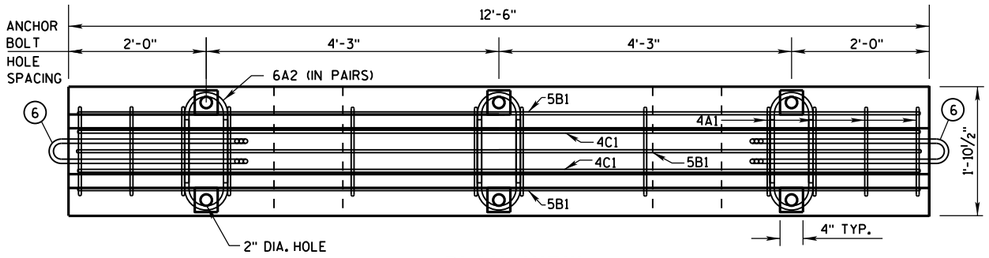
DETAIL "B"
LIFTING SLOT DETAIL



SECTION A-A
(STIRRUP PLACEMENT)



SECTION B-B
(STIRRUP PLACEMENT)



PLAN VIEW

DETAILS OF BARRIER SECTION

GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-15(a) THRU 14B7-15(i).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

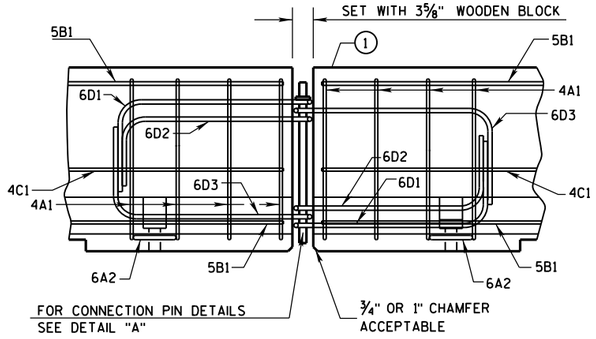
(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

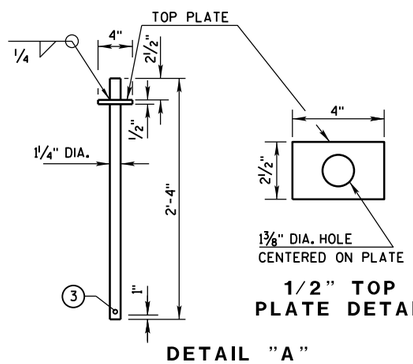
(8) SEE SHEET D FOR HOW TO ANCHOR BARRIER. SEE SHEET E FOR WHEN TO ANCHOR BARRIER.

(9) 1" CHAMFER OPTIONAL.

f'c = 4,000 psi

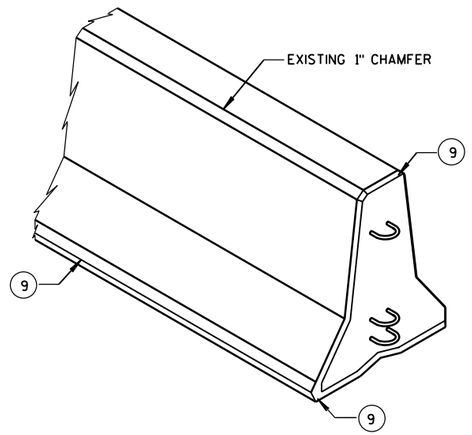


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))

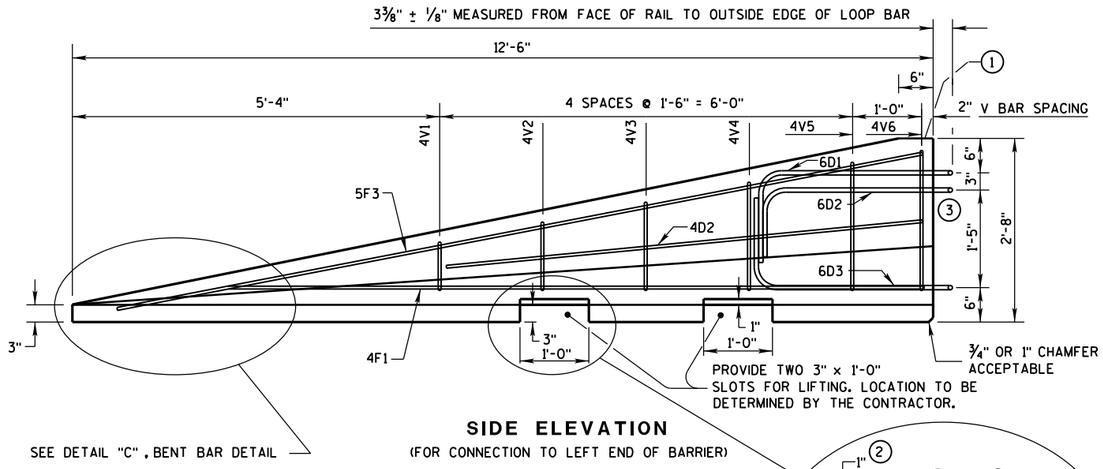


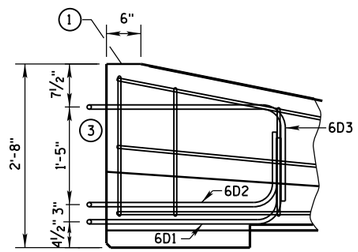
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 498

S.D.D. 14 B 7-15a

6



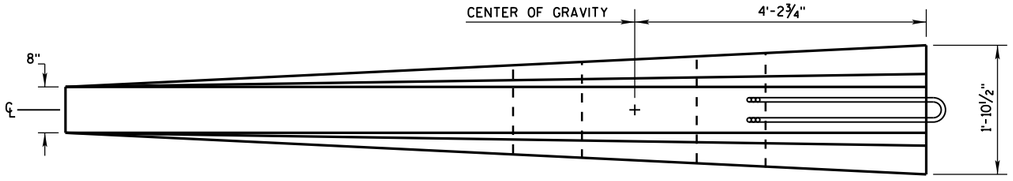


SIDE ELEVATION

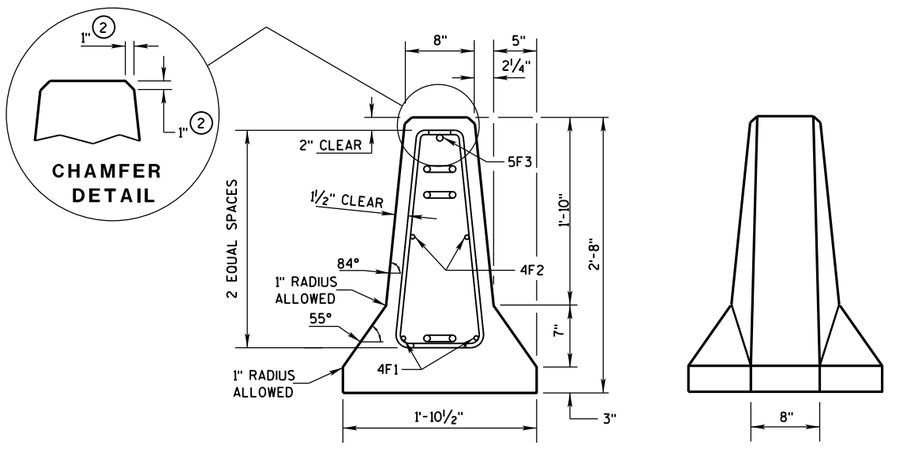
LOOP BAR ASSEMBLY INVERTED
FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

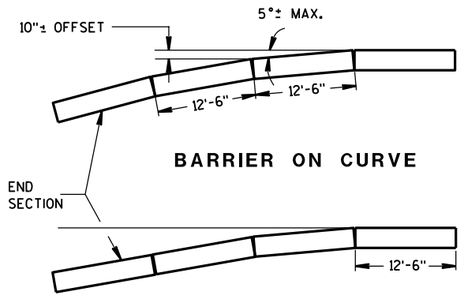


PLAN VIEW



END SECTION

FRONT ELEVATION



BARRIER ON CURVE

FLARE AT BARRIER END

POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

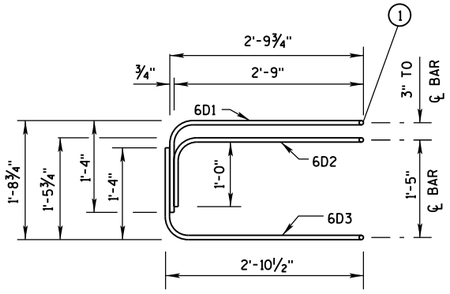
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15b

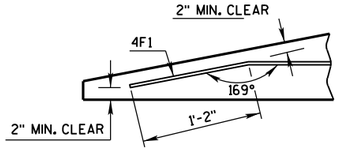
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

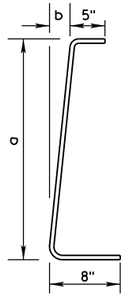
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

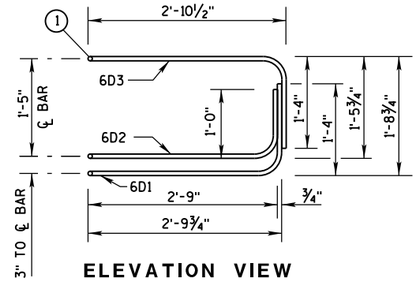
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

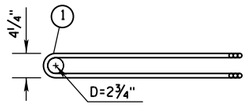
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

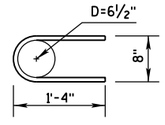
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



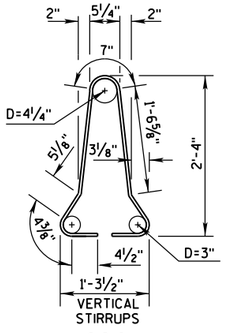
ELEVATION VIEW



PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



6A2



4A1

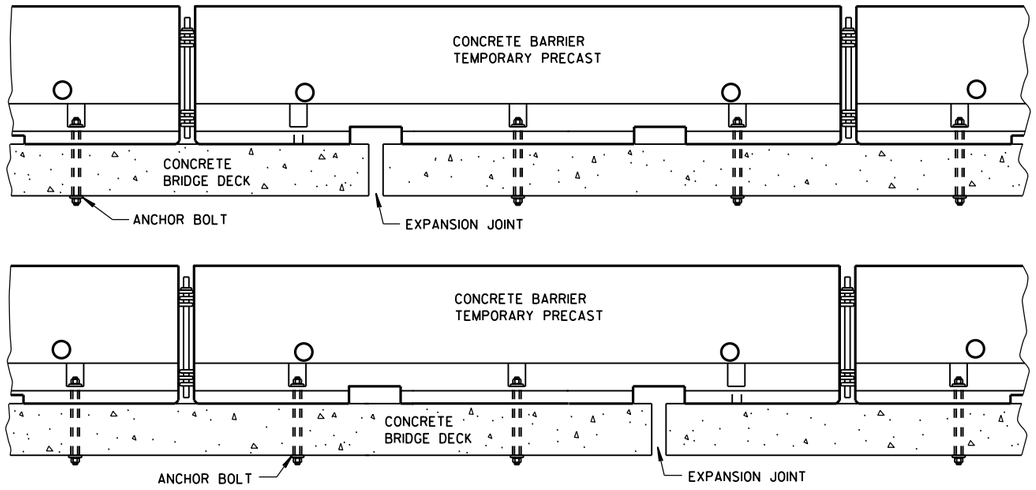
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 500

6

S.D.D. 14 B 7-15c



TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)

GENERAL NOTES

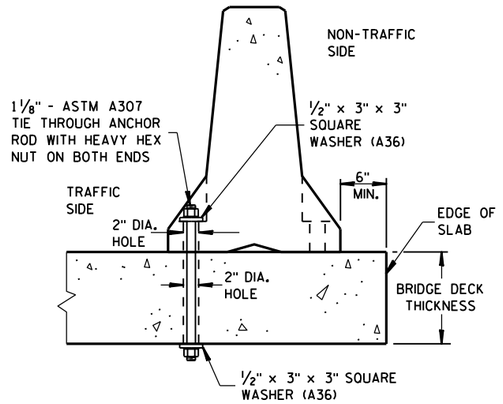
SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(1) 1⅛" DIAMENTER A307 THREADED ROD. ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL. ASTM A563A HEAVY HEX NUT.

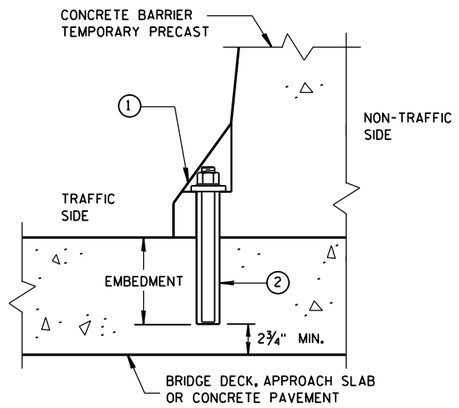
(2) ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.

(3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



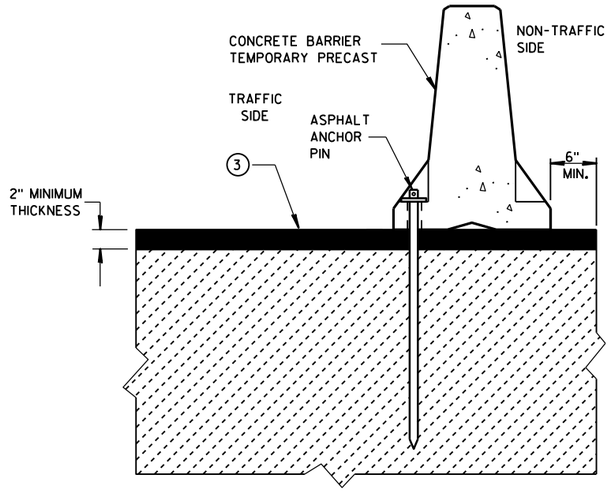
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

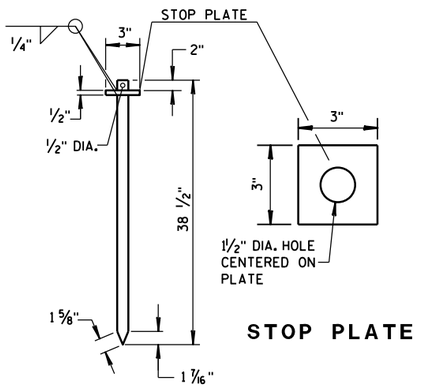


REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



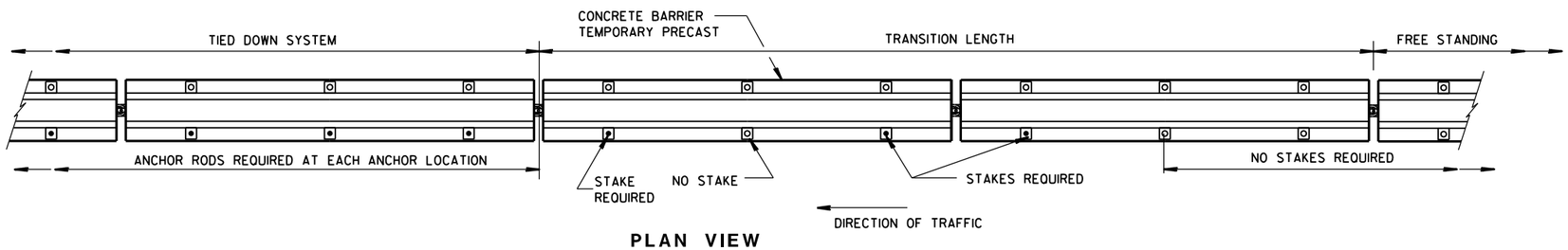
STAKE DOWN INSTALLATION FOR ASPHALTIC SURFACE



STOP PLATE

ASPHALT ANCHOR PIN

(ASTM A36 STEEL)



PLAN VIEW

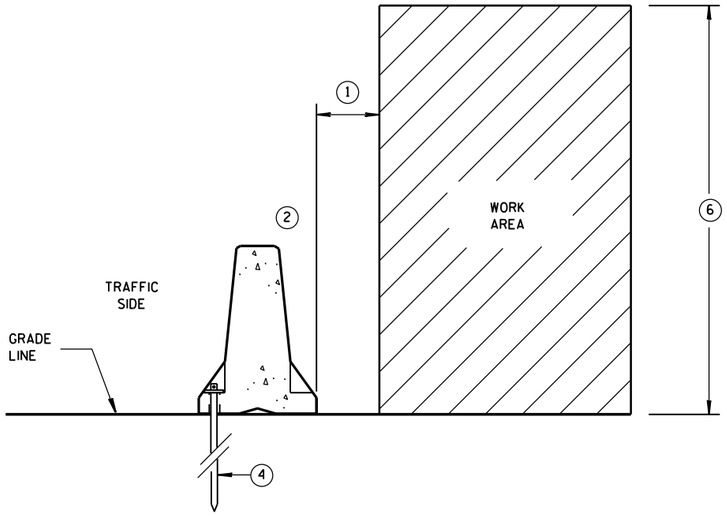
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

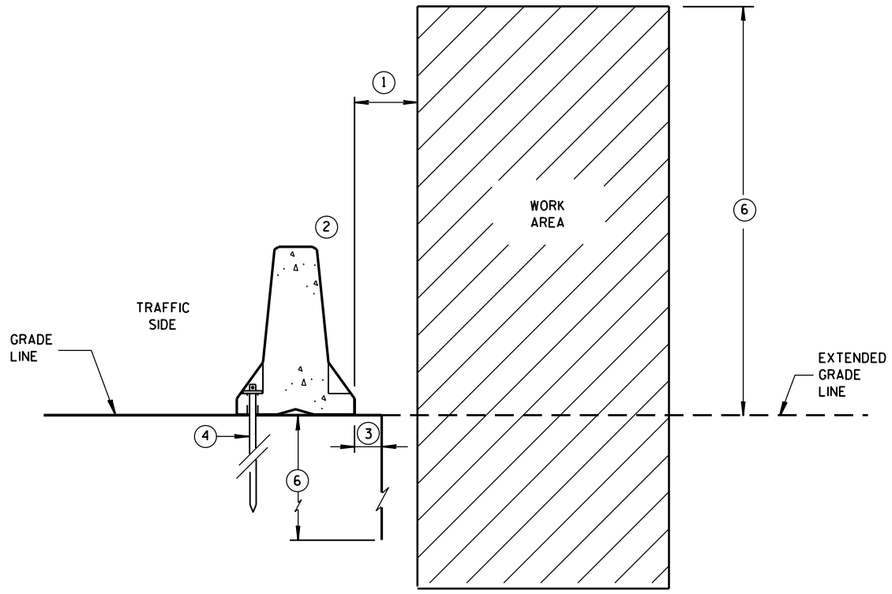
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15d



ANCHORED BARRIER SPACE REQUIREMENTS FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

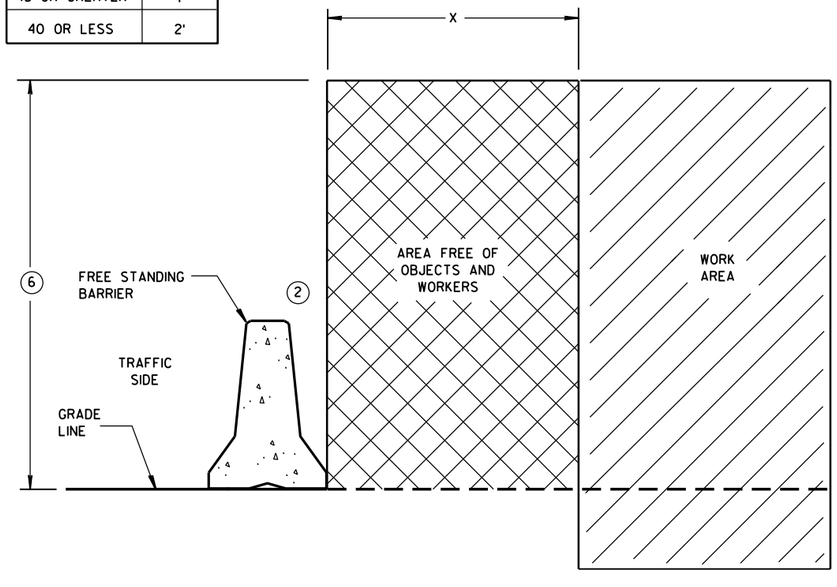


ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS

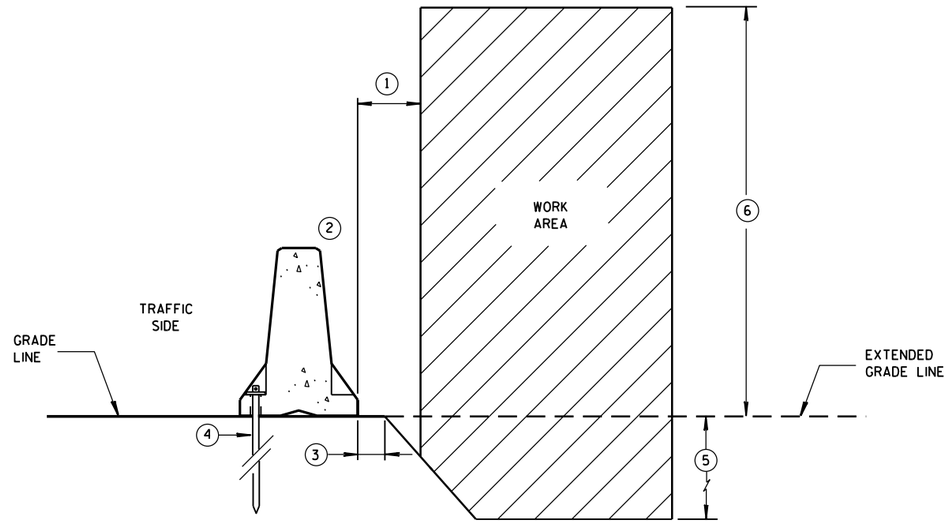
GENERAL NOTES

1. WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
2. OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
3. SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
4. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
5. DEPTH OF 3 FEET OR MORE.
6. Y = 6'-6".

POSTED SPEED MPH	X
45 OR GREATER	4'
40 OR LESS	2'



FREE STANDING BARRIER SPACE REQUIREMENTS



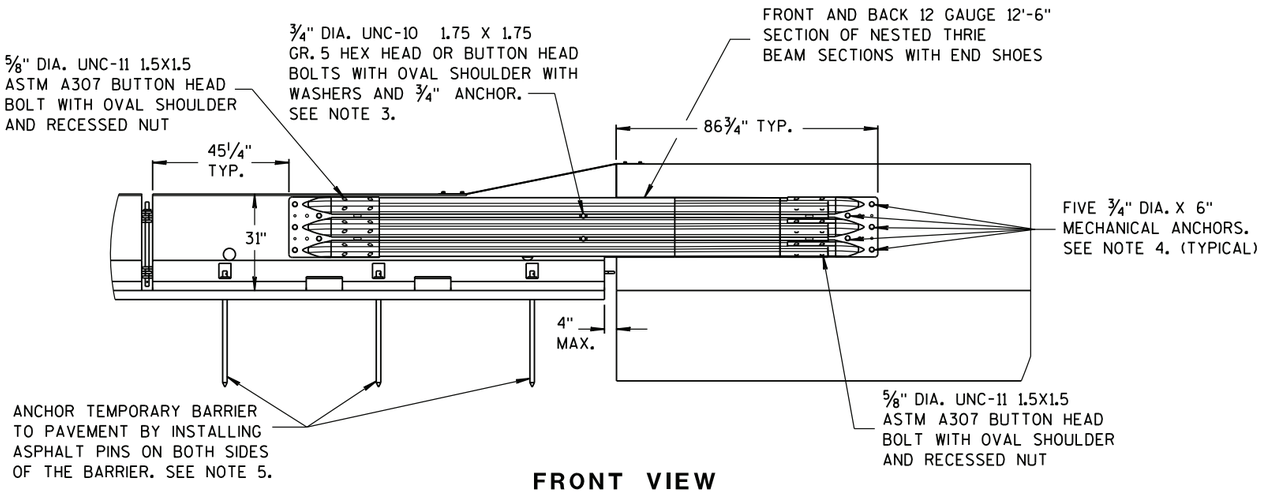
ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

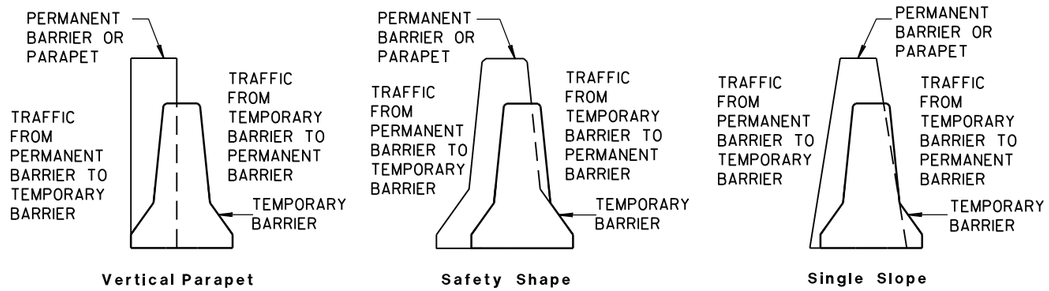
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

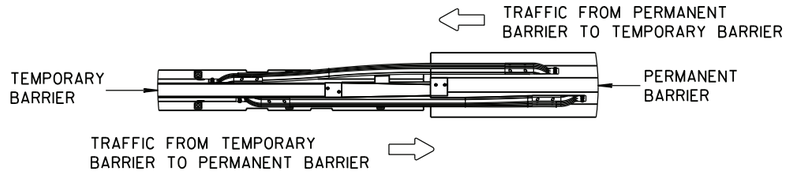
6

S.D.D. 14 B 7-15e



FRONT VIEW



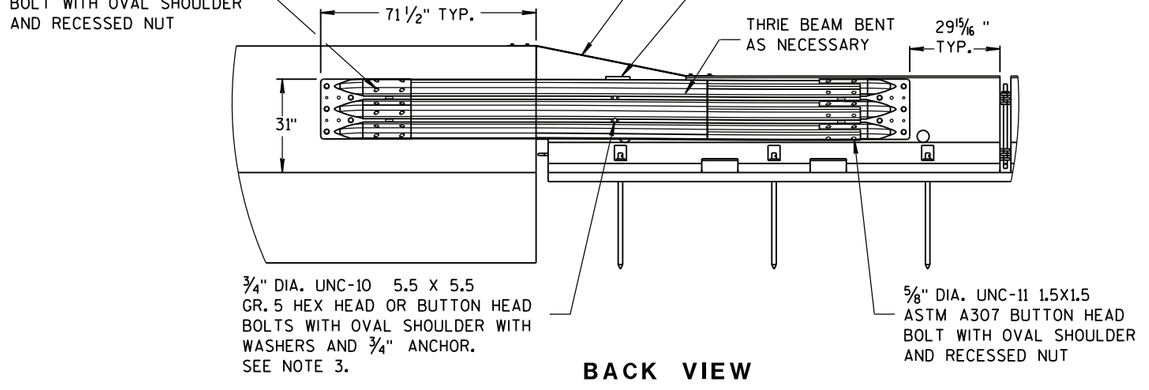


TEMPORARY BARRIER PLACEMENT FOR TRANSITION TO TIED DOWN SYSTEM

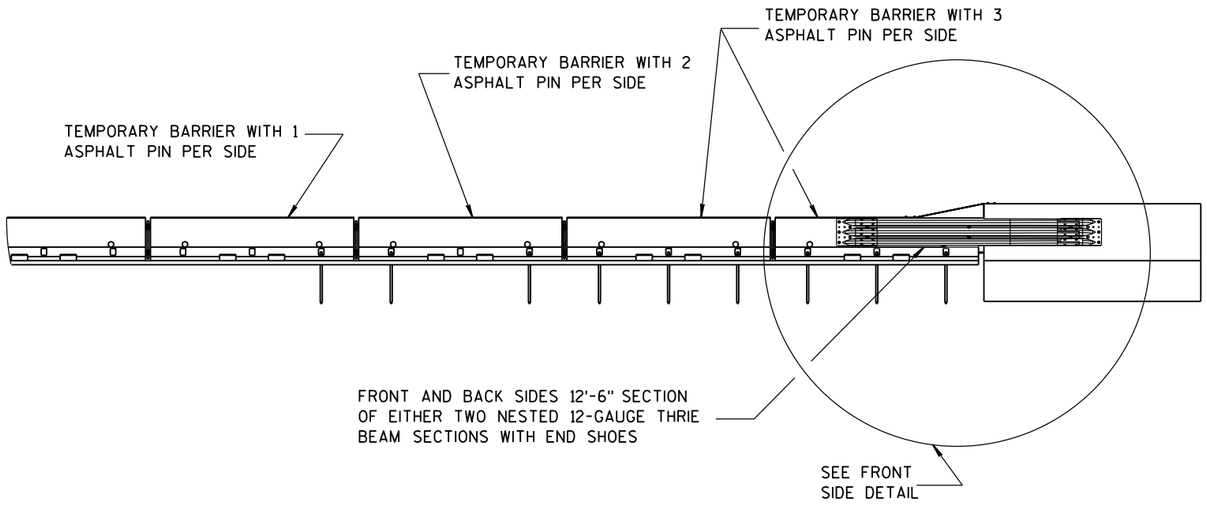
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS REGARDLESS OF TRAFFIC.

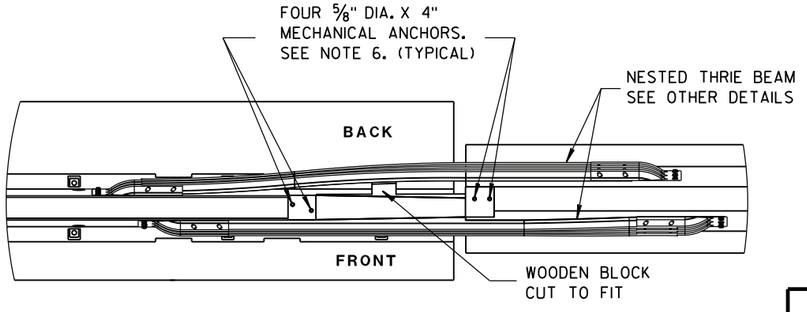
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



BACK VIEW



FRONT VIEW



PLAN VIEW

TRANSITION TO TIED DOWN SYSTEM

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 14 B 7-15f

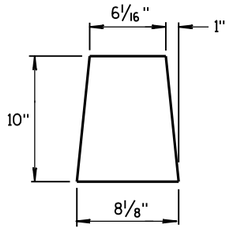
GUSSET 1

GUSSET 2

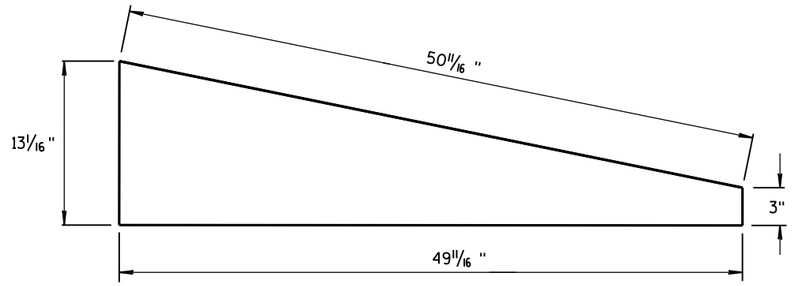
GUSSET 3

GUSSET 4

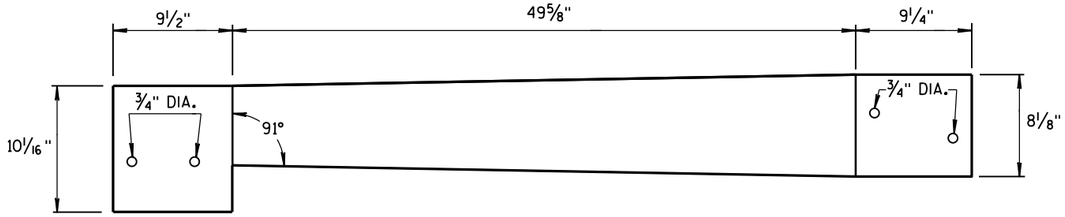
GUSSETS

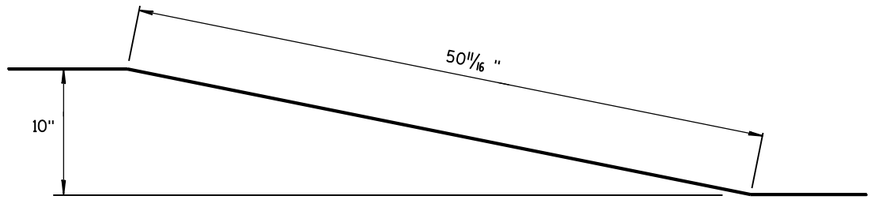


END PLATE

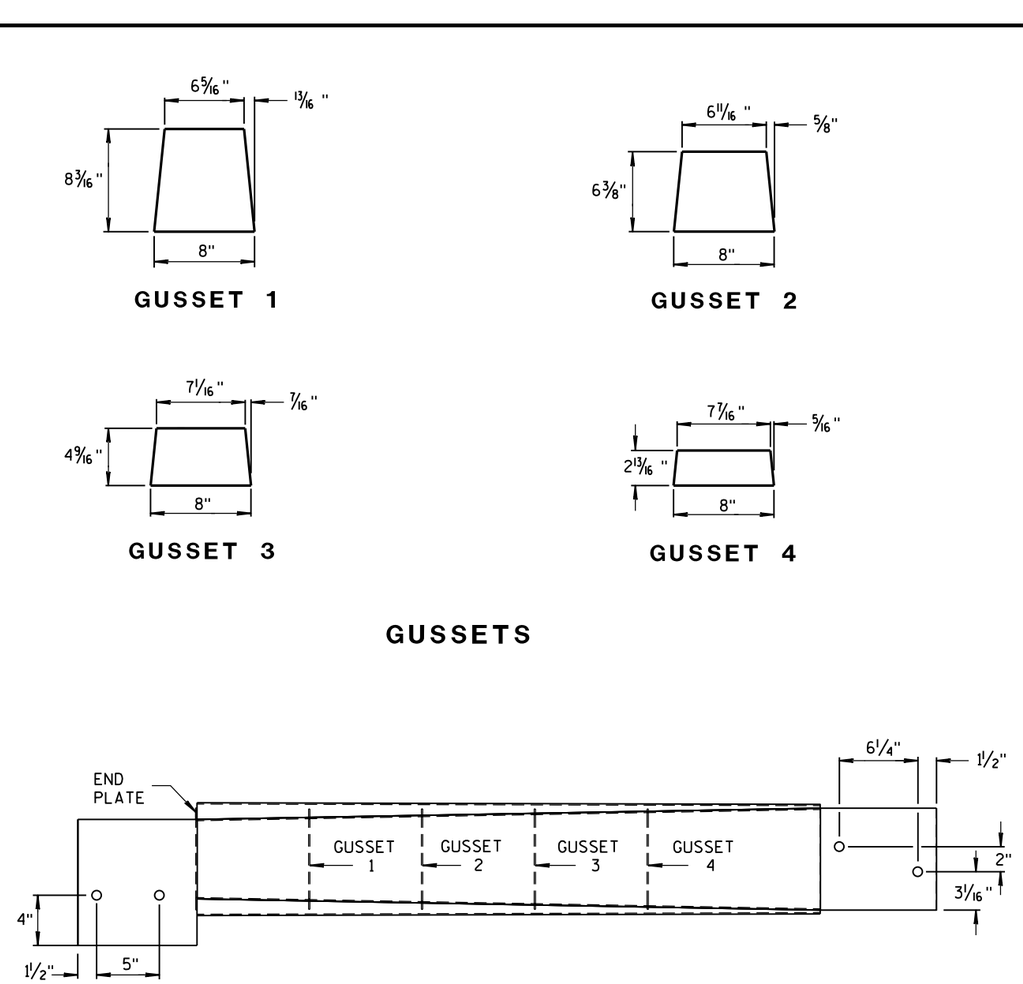


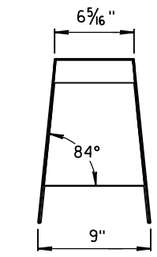
SIDE PLATE





TOP PLATE





SECTION C-C

NOTES

1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

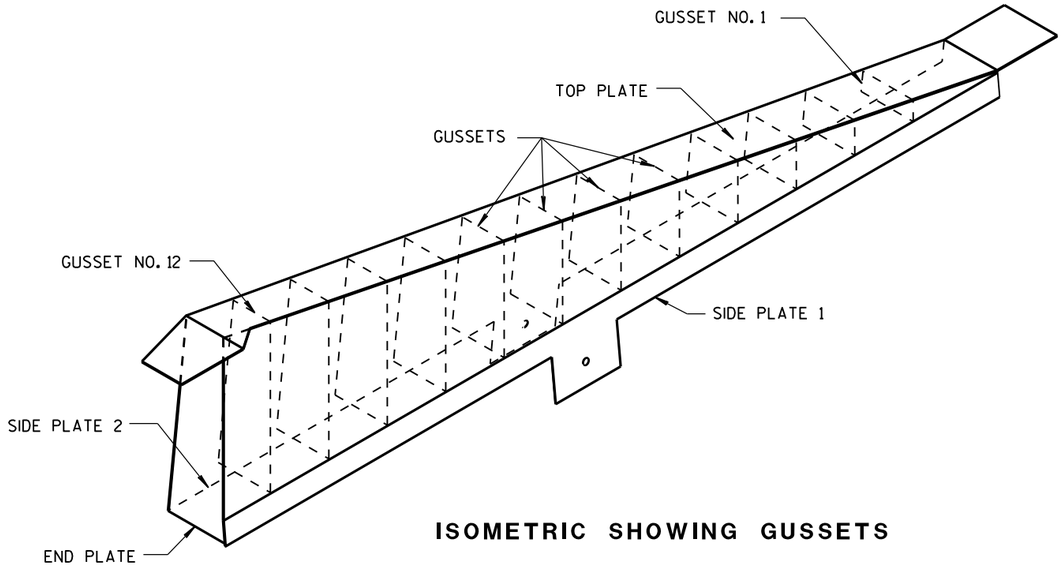
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

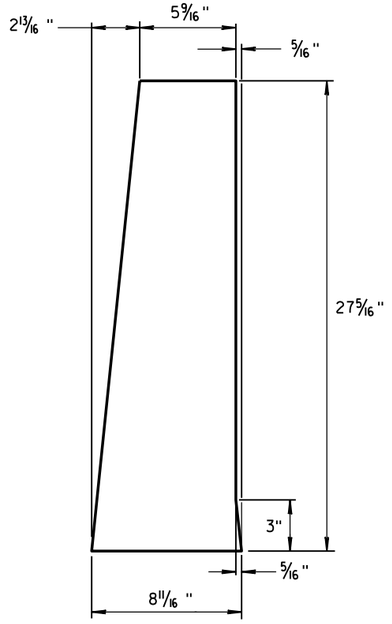
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 7-15g

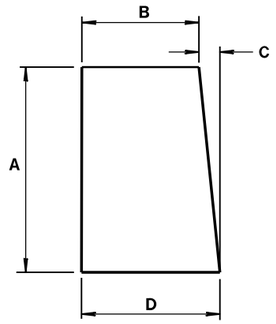


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



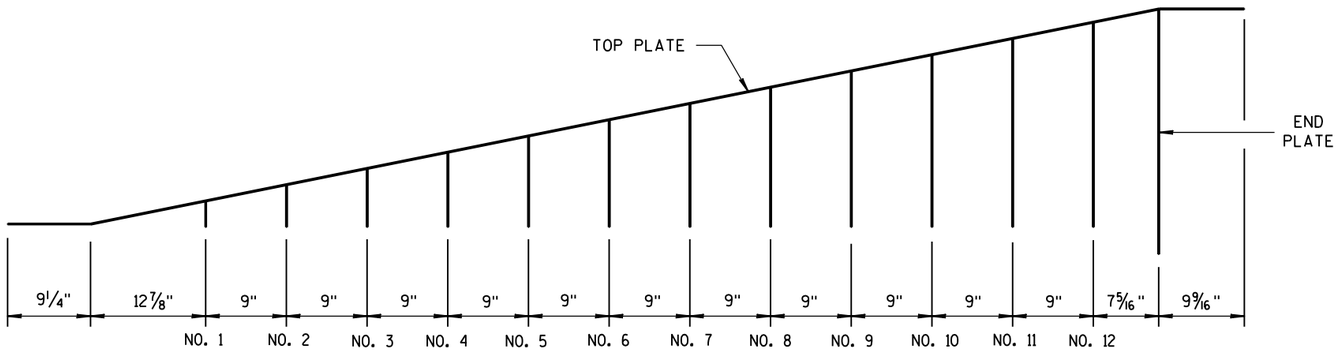
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

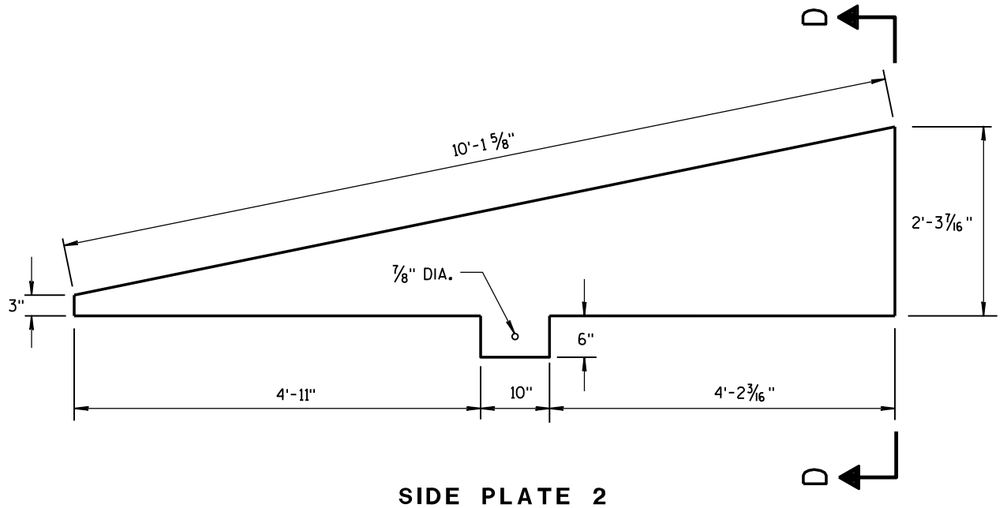
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

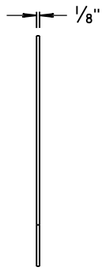
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

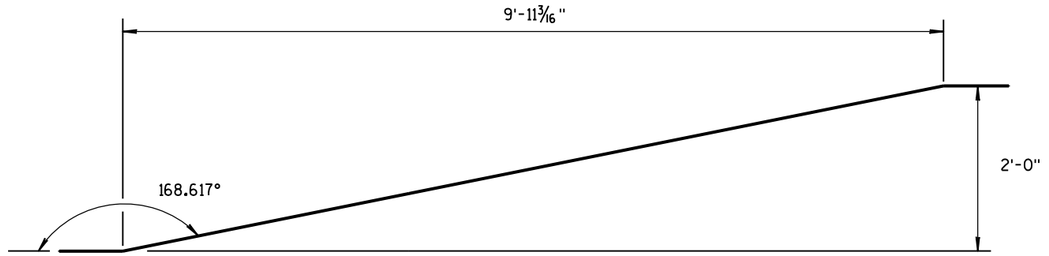
S.D.D. 14 B 7-15h



SIDE PLATE 2

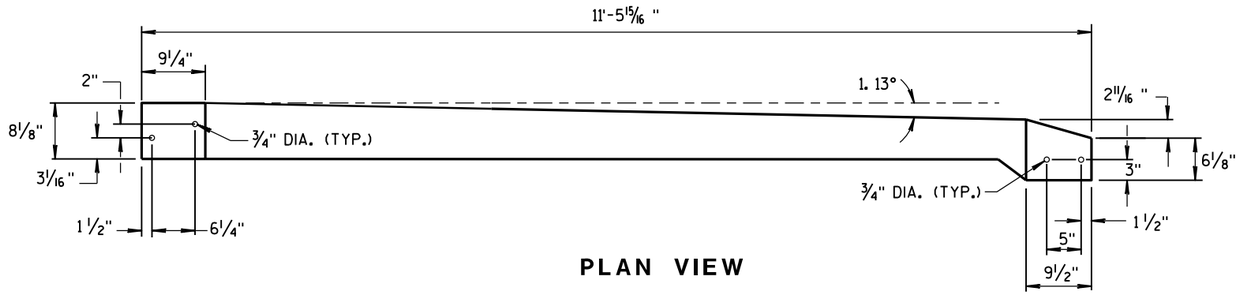


END VIEW



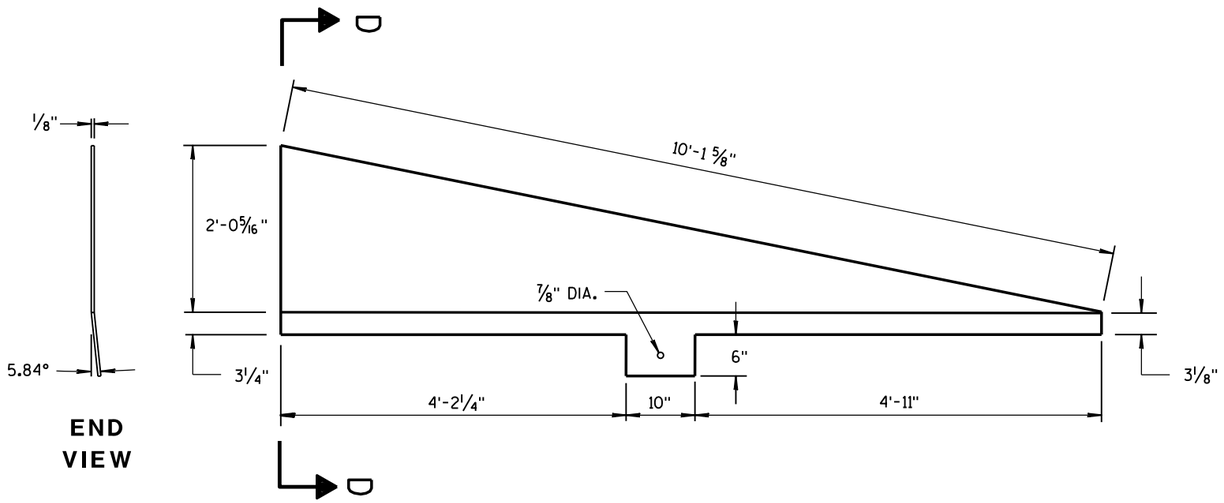
SIDE VIEW

TOP PLATE



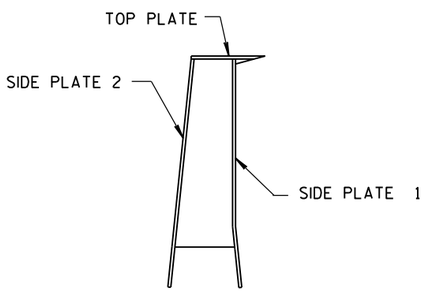
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERV
506
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FHWA

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S.D.D. 14 B 7-15i

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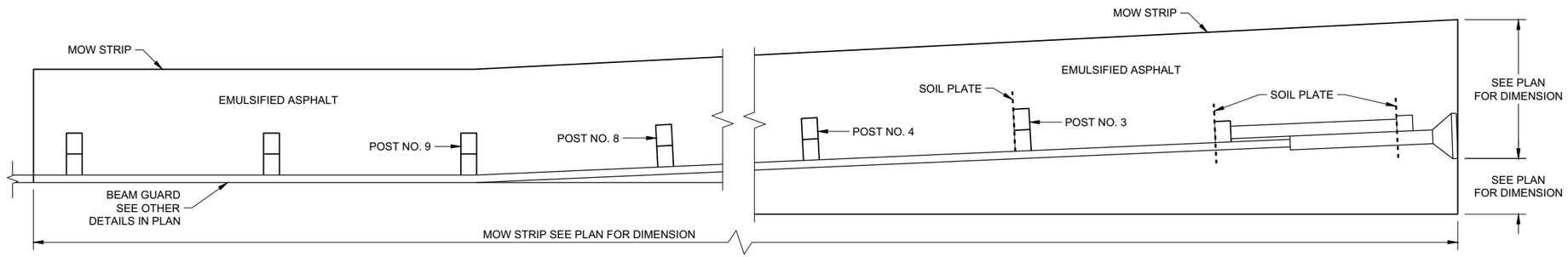
S.D.D. 14 B 7-15i



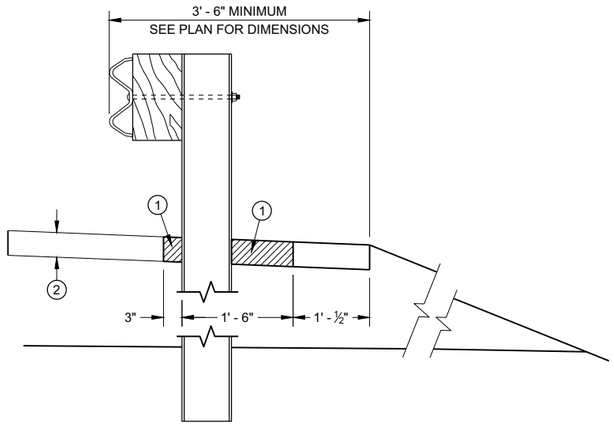
PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABSORBING TERMINAL

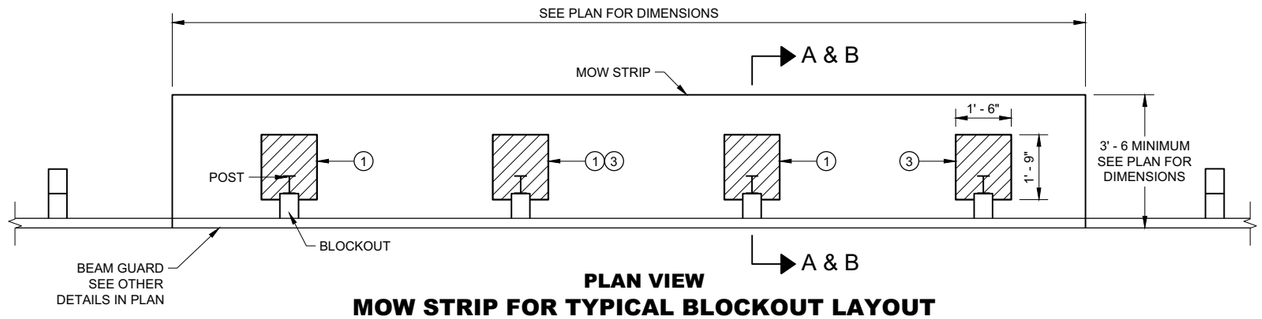
GENERAL NOTES

ONLY USE STEEL POSTS IN CONCRETE AND ASPHALT MOW STRIPS.

1. CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.
2. DEPTH OF MOW STRIP:
   ASPHALT - 4"
   CONCRETE - 4"
   EMULSIFIED ASPHALT - 1" OR LESS
3. FOR EMULSIFIED ASPHALT, MOW STRIP STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS)

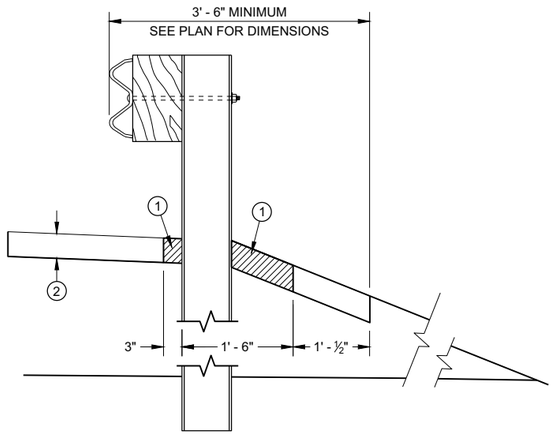


SECTION A - A

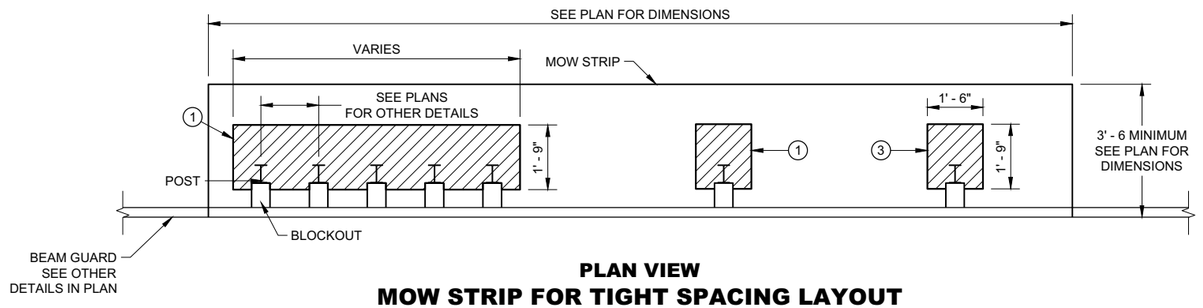


PLAN VIEW

MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT

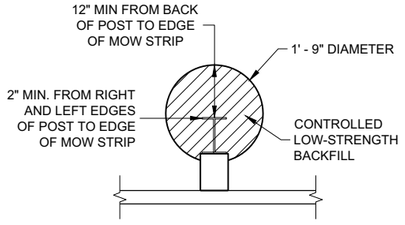


SECTION B - B

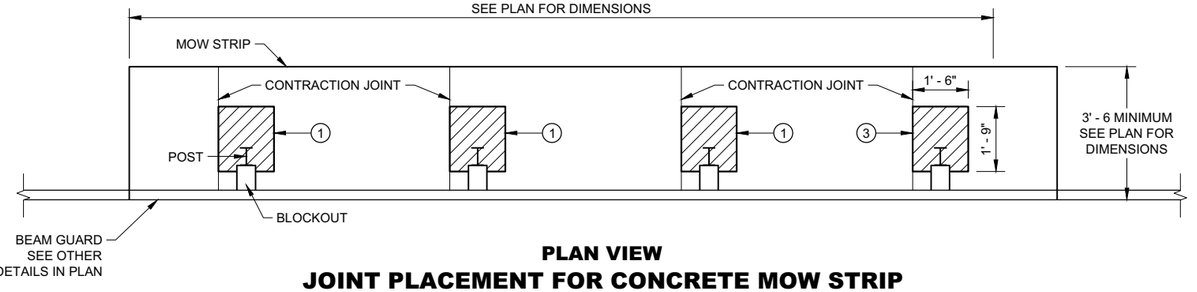


PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



ALTERNATIVE HMA MOW STRIP DESIGN



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B28 - 04a

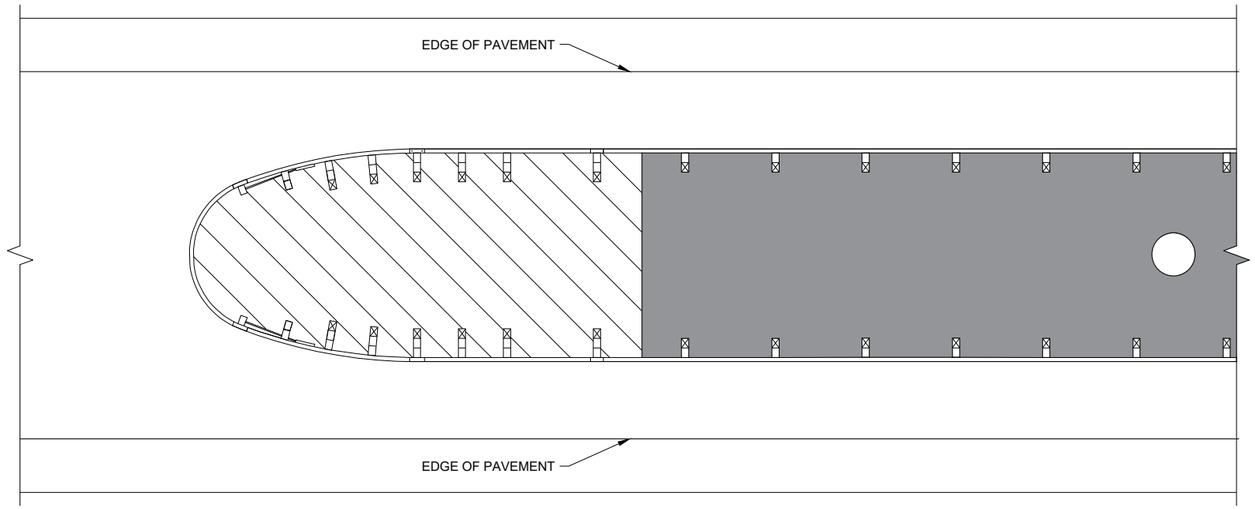
LEGEND

CONCRETE, ASPHALT, OR EMULSIFIED ASPHALT MOW STRIP (SEE OTHER DETAILS)

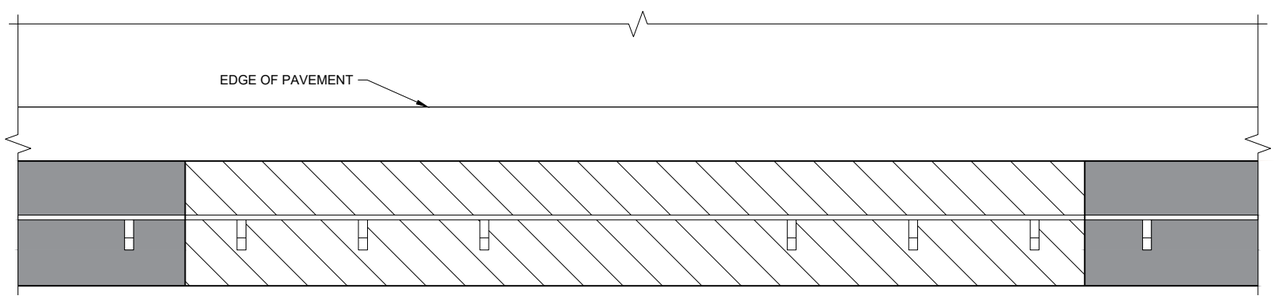
EMULSIFIED ASPHALT MOW STRIP (SEE OTHER DETAILS)

GENERAL NOTES

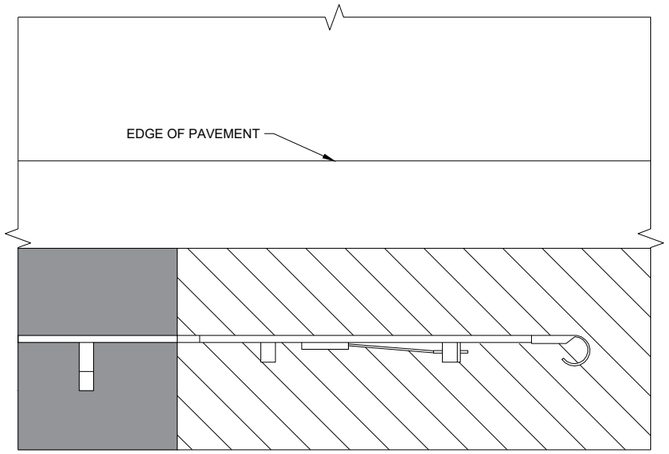
EXISTING THRIE BEAM BULLNOSES MAY HAVE WOOD POSTS. NEW THRIE BEAM BULLNOSE WILL HAVE STEEL POSTS.



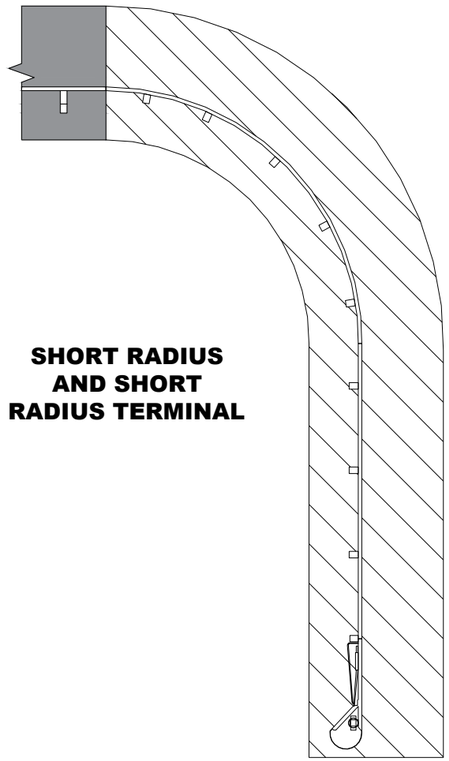
THRIE BEAM BULLNOSE



LONG - SPAN



TYPE 2 TERMINAL



SHORT RADIUS AND SHORT RADIUS TERMINAL

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

508

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SDD 14B28 - 04b

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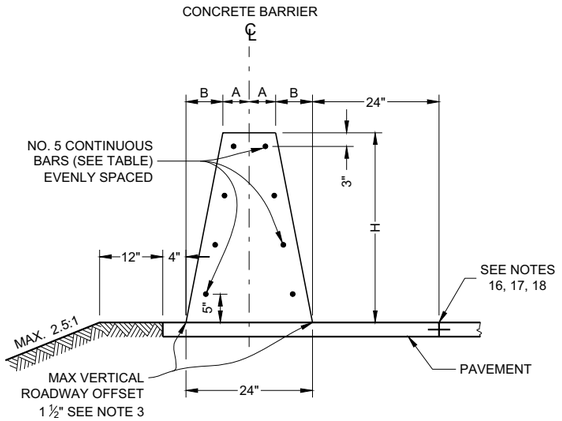
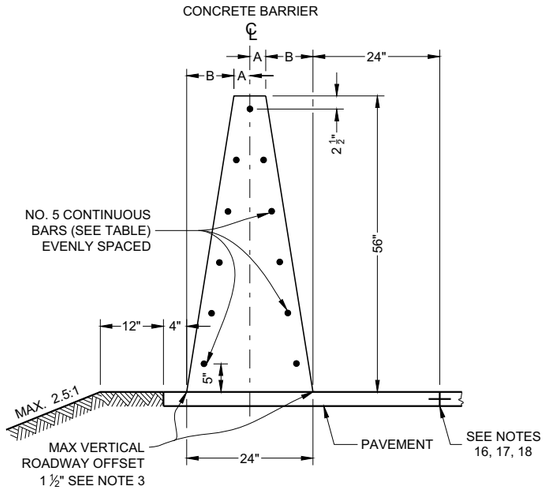
SDD 14B28 - 04b

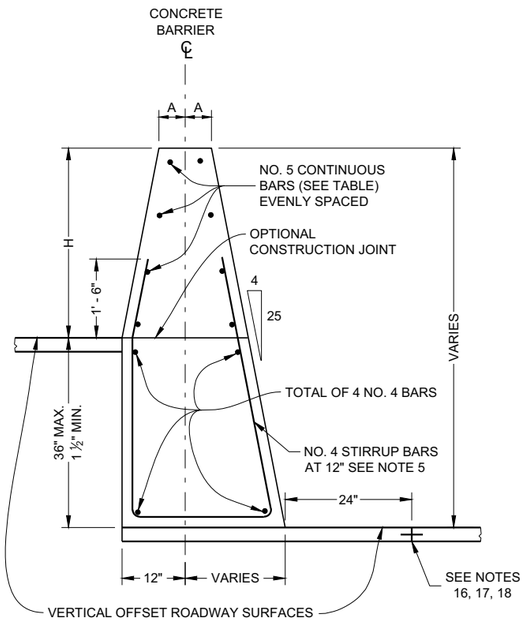


32 - INCH, 36 - INCH OR 42 - INCH SINGLE SLOPE CONCRETE BARRIER
(TYPE S32, TYPE S36, TYPE S42)

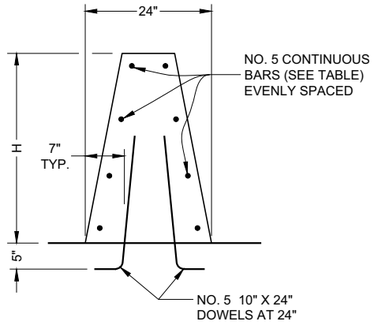


56 - INCH SINGLE SLOPE CONCRETE BARRIER
(TYPE S56)

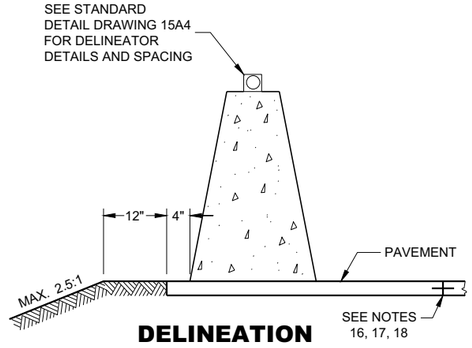
BARRIER HEIGHT H INCHES	A INCHES	B INCHES	NUMBER OF NO. 5 BARS EACH
32	7	5	8
36	6 ¼	5 ¾	8
42	5 ¼	6 ¾	10
56	3	9	11



SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)
(BETWEEN ADJACENT ROADWAYS)



SINGLE SLOPE CONCRETE BARRIER ON BRIDGE
(NON OUTER PARAPET APPLICATION)



DELINEATION

GENERAL NOTES

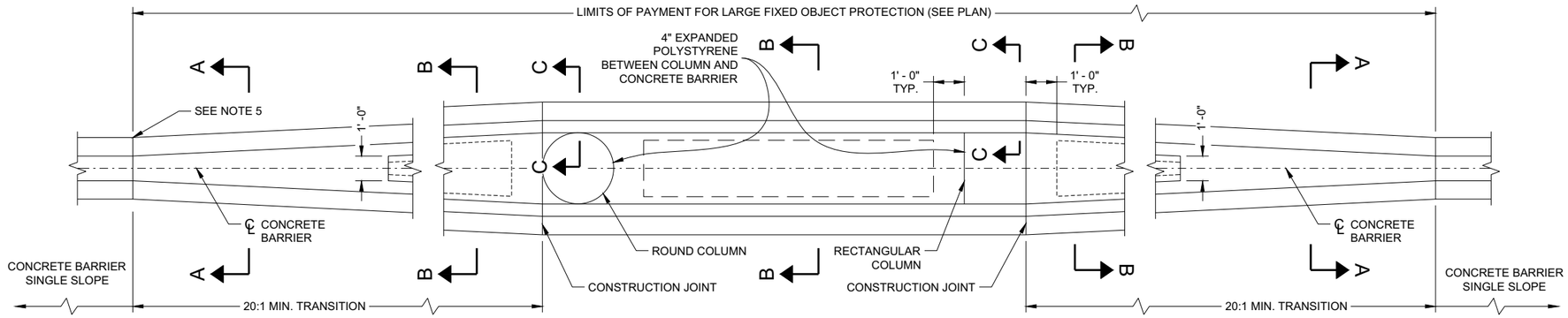
1. WHERE THE CONCRETE BARRIER IS ADDED TO THE FACE OF EXISTING CONCRETE STRUCTURE, MATCH EXISTING WEEP HOLES.
2. EXPANSION JOINTS IN CONCRETE BARRIER SHALL BE LOCATED AT ALL DECK AND PRINCIPAL WALL JOINTS. EXPANSION JOINT FILLER MATERIAL SHALL BE THE SAME SIZE AS JOINT OF ½" MINIMUM.
3. WHERE VERTICAL ROADWAY OFFSET IS GREATER THAT 1", USE TYPE A.
4. PLACE BARRIER PERPENDICULAR TO SHOULDER GRADE, UNLESS INDICATED IN PLAN.
5. EXCEPT IN ANCHORS, VERTICAL REINFORCING STIRRUP NOT REQUIRED FOR ROADWAY OFFSETS LESS THAN 1' - 0".
6. FOR TYPE S32, TYPE S36, TYPE S42 AND TYPE S56 MONOLITHIC FOOTING OR DOWELED FOOTING 2 - #8 X 8" @ 2'- 0".
7. STAGGER LAPPING OF LONGITUDINAL STEEL. MINIMUM OVERLAP OF STEEL 2 FEET. BARS AT LAPS TO BE FIRMLY TIED OR CONNECTED.
8. 4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATION 501.
9. WHEN SWITCHING BETWEEN SLIP FORM AND CAST-IN-PLACE OPERATIONS, EXTEND LONGITUDINAL STEEL 3 FEET BEYOND SLIP FORMING CUT-OFF POINT. EXPOSED STEEL INTO NEXT POURS REINFORCEMENT. LAPS TO BE FIRMLY TIED.
10. USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.
11. 2" CLEAR COVER TYPICAL
12. COLD-JOINTS MAY BE USED BETWEEN ANCHOR INSTALLATIONS. WHEN A COLD JOINT IS NEEDED, 3 FEET OF LAP OF LONGITUDINAL STEEL IS REQUIRED. LAPS TO BE FIRMLY TIED.
13. IN TYPE S32, TYPE S36, TYPE S42 AND TYPE S56 NO ADDITIONAL VERTICAL STEEL IS NEEDED. IN TYPE S32A, TYPE S36A, TYPE S42A AND TYPE S56A REQUIRES VERTICAL STEEL. SEE OTHER DETAIL.
14. IN TYPE S32, TYPE S36, TYPE S42 AND TYPE S56 DEPTH OF FOOTING 10". IN TYPE S32A, TYPE S36A, TYPE S42A AND TYPE S56A MATCH TOTAL HEIGHT OF SINGLE SLOPE BARRIER RETAINING WALL.
15. FOR ALL BARRIER TYPES SHOWN, ANCHOR IS REQUIRED AT CONCRETE BARRIER ENDS AND AT INTERRUPTIONS IN CONCRETE BARRIER. ANCHOR MAY BE AS SHOWN ON DRAWING OR DETAILS SHOWN ON S.D.D. 14B33. ANCHORS INCIDENTAL TO CBSS.
16. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED FULL DEPTH. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
17. CONSTRUCTION JOINTS MAY BE ELIMINATED WHEN CONCRETE SHOULDER IS LESS THAN 10'.
18. SEE SDD 13C1 FOR DETAILS TYING BARRIER FOOTING TO ADJACENT CONCRETE.
19. PROVIDE A 1" DEEP, ," WIDE CONTRACTION JOINT IN BARRIER FOOTING AND BARRIER. JOINT IS TO MATCH ADJACENT CONCRETE JOINTS. IF ADJACENT TO ASPHALT, CONTRACTION JOINT IS REQUIRED EVERY 15'.

CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

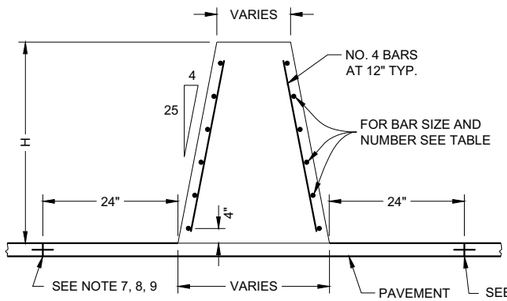
6

SDD 14B32 - 07a
SDD 14B32 - 07a

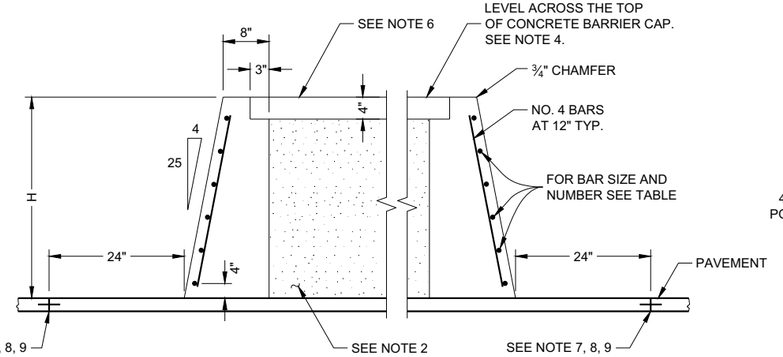


LARGE FIXED OBJECTS PROTECTION
(TYPE S32, TYPE S36, TYPE S42, TYPE S56)

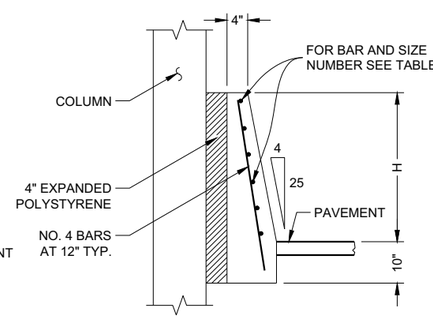
BARRIER HEIGHT H INCHES	BAR SIZE	NUMBER OF BARS EACH
32	4	6
36	4	6
42	5	6
56	5	6



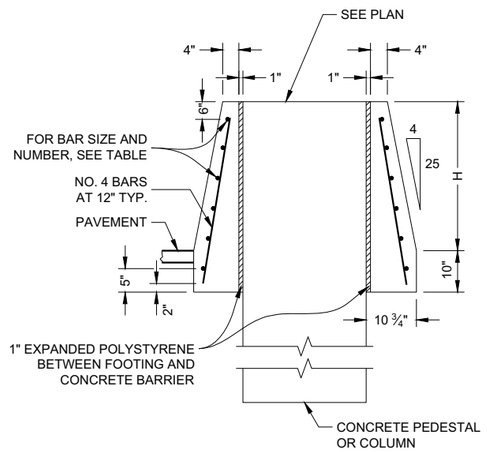
SECTION A - A



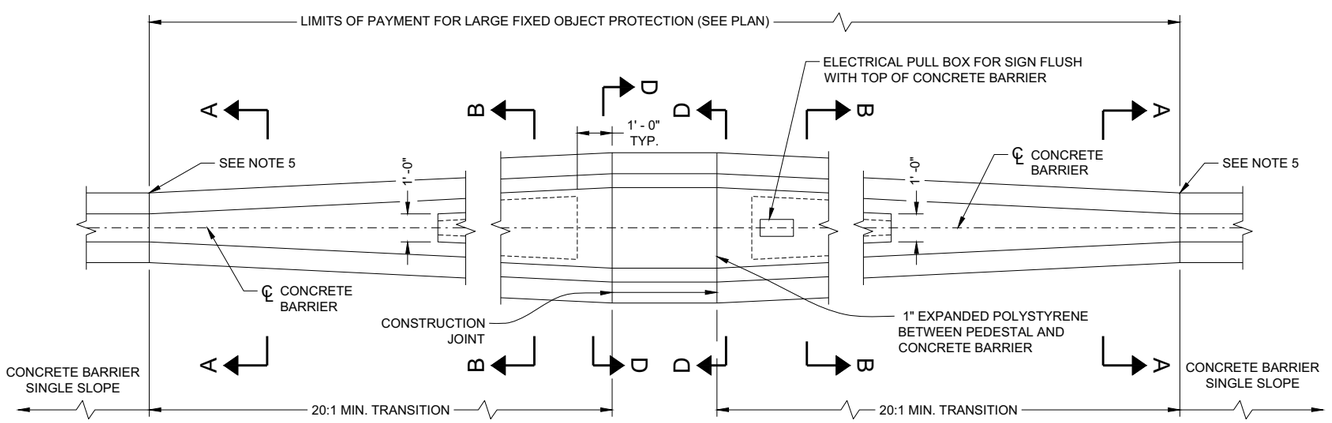
SECTION B - B



SECTION C - C



SECTION D - D



SMALL FIXED OBJECTS PROTECTION
(TYPE S32, TYPE S36, TYPE S42, TYPE S56)

GENERAL NOTES

1. INSTALL 1 INCH DIAMETER DRAIN PIPE EVERY 20 FEET OF CROSS SECTION B -B. MINIMUM ONE DRAIN CAVITY.
2. BETWEEN CONCRETE BARRIER WALLS FILL WITH FOUNDATION BACKFILL.
3. REINFORCING STEEL SHALL EXTEND CONTINUOUS THROUGH CONSTRUCTION JOINTS.
4. ADJUST HEIGHT OF CONCRETE BARRIER WALL ON LOW SIDE OF OFFSET OR SUPERELEVATED ROADWAYS TO PROVIDE LEVEL GRADE ACROSS TOP OF CONCRETE CAP.
5. IF FIXED OBJECT PROTECTION IS INSTALLED FIRST, USE COLD JOINTS. IF CBSS PLACED FIRST, USE EXPANSION JOINT.
6. USE NO. 3 BAR SPACED 12 INCHES CENTER TO CENTER (PLACED IN EACH DIRECTION) OR EQUIVALENT WIRE MESH.
7. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED ITH CONCRETE SHOULDER AND SAWED FULL DEPTH. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
8. CONSTRUCTION JOINTS MAY BE ELIMINATED WHEN CONCRETE SHOULDER IS LESS THAN 10',
9. SEE SDD 13C1 FOR DETAILS TYING BARRIER FOOTING TO ADJACENT CONCRETE.

CONCRETE BARRIER SINGLE SLOPE (CBSS)

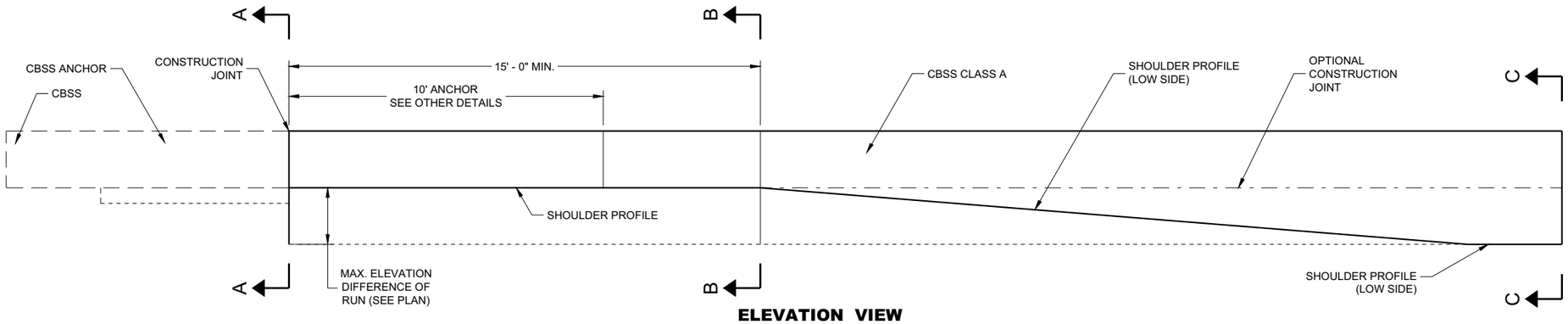
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B32 - 07b

SDD 14B32 - 07b

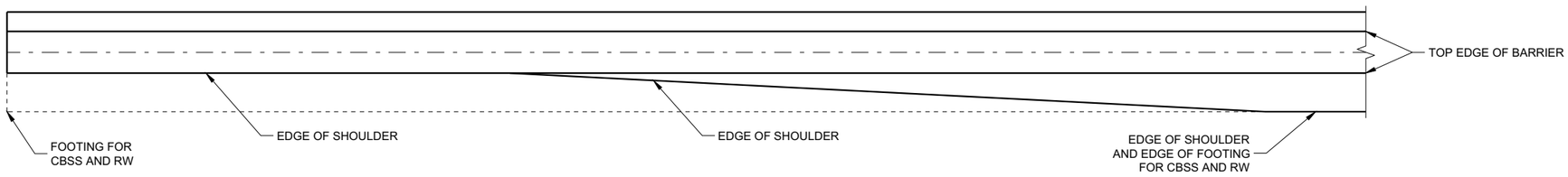
GENERAL NOTES

1. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. SEE SDD 13C18 FOR JOINT DEPTH AND WIDTH. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
2. CONSTRUCTION JOINTS MAY BE ELIMINATED WHEN CONCRETE SHOULDER IS LESS THAN 10',
3. SEE SDD 13C1 FOR DETAILS TYING BARRIER FOOTING TO ADJACENT CONCRETE.



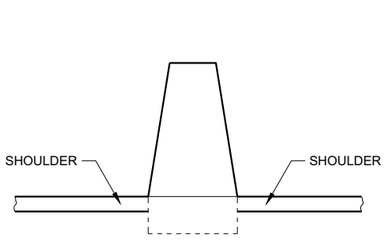
ELEVATION VIEW

TRANSITION TO CBSS CLASS A
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)

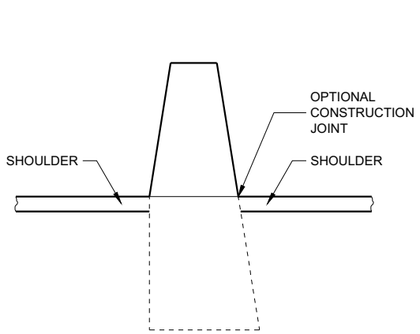


PLAN VIEW

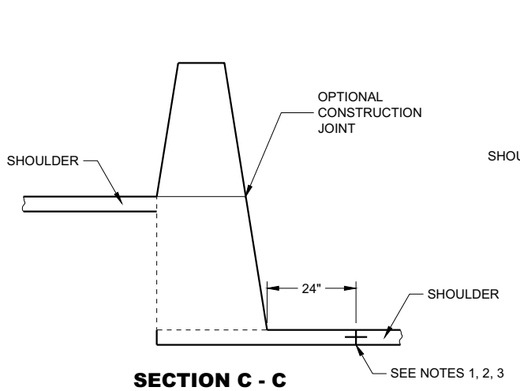
TRANSITION TO CBSS CLASS A
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)



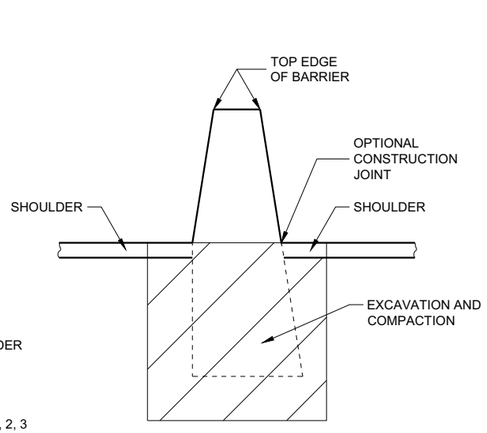
SECTION A - A



SECTION B - B



SECTION C - C

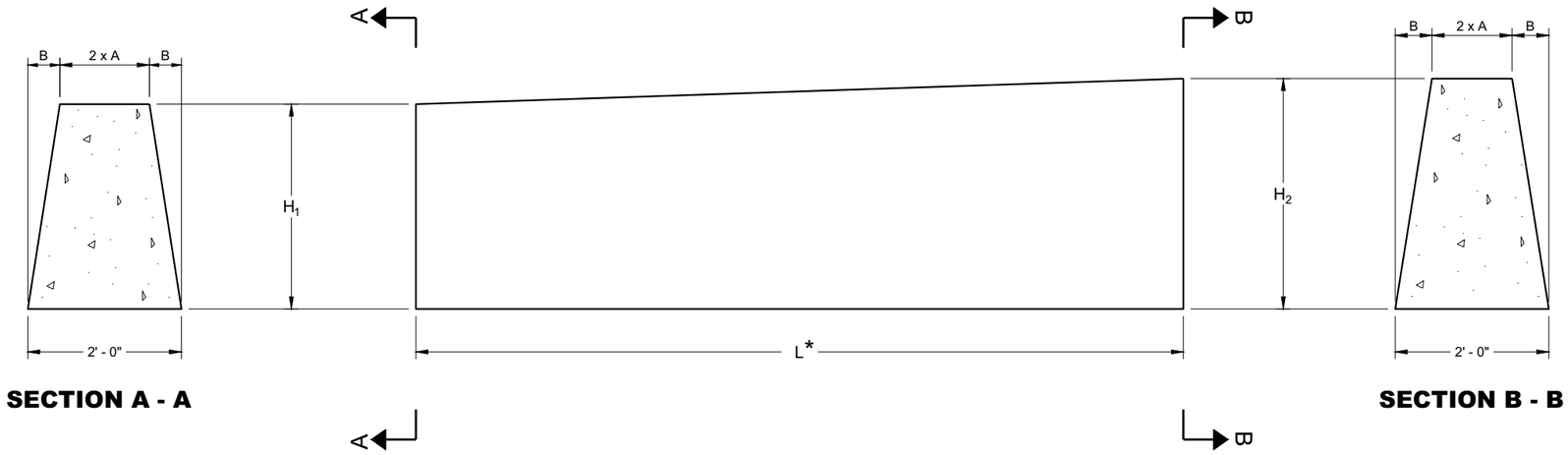


CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B32 - 07c

SDD 14B32 - 07c



SECTION A - A

SECTION B - B

DOUBLE COLD JOINT HEIGHT TRANSITION

BARRIER DIMENSIONS

BARRIER HEIGHT INCHES	A INCHES	B INCHES
32	7	5
36	6 ¼	5 ¾
42	5 ¼	6 ¾
56	3	9

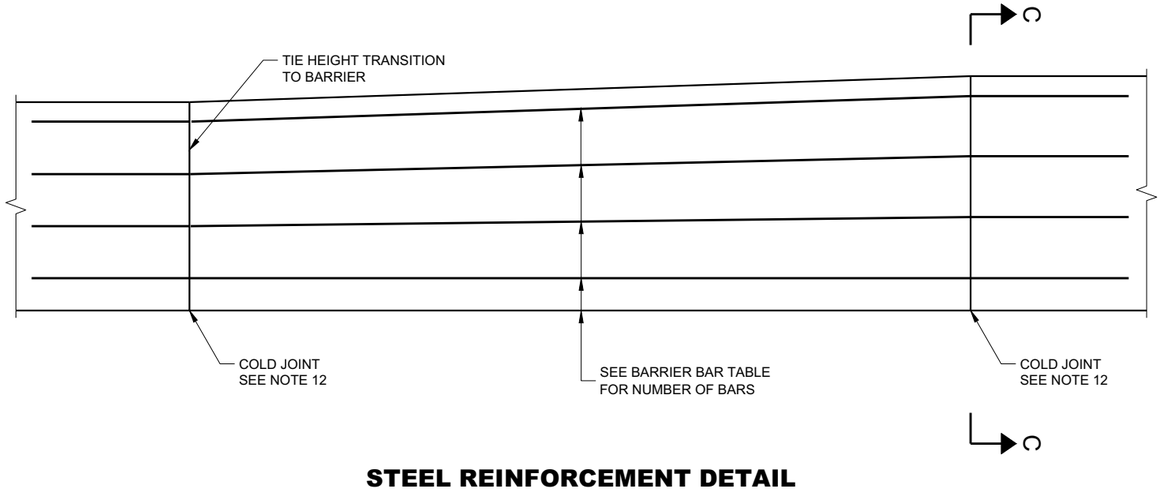
MULTIPLE HEIGHT TRANSITIONS MAY BE USED IN SEQUENCE TO GET TO APPROPRIATE HEIGHT.

USE COLD JOINT TO CONNECT MULTIPLE HEIGHT TRANSITIONS.

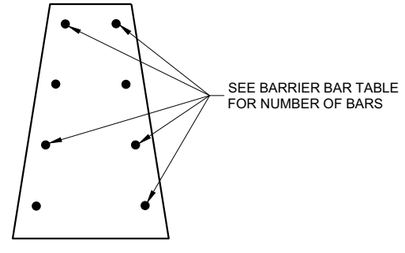
BARRIER BARS

H_1	H_2	L*	NUMBER OF NO. 5 BARS
32"	36"	10' - 0"	8
36"	42"	10' - 6"	10
42"	56"	24' - 6"	11

* LENGTH OF DOUBLE COLD JOINT INCLUDED IN THE TOTAL LENGTH OF CBSS.



STEEL REINFORCEMENT DETAIL



SECTION C-C

CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

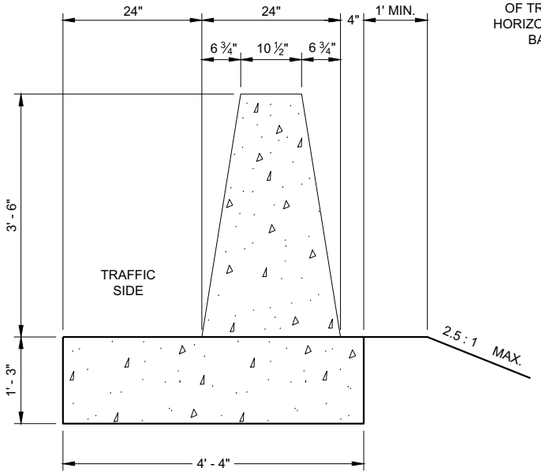
FHWA

6

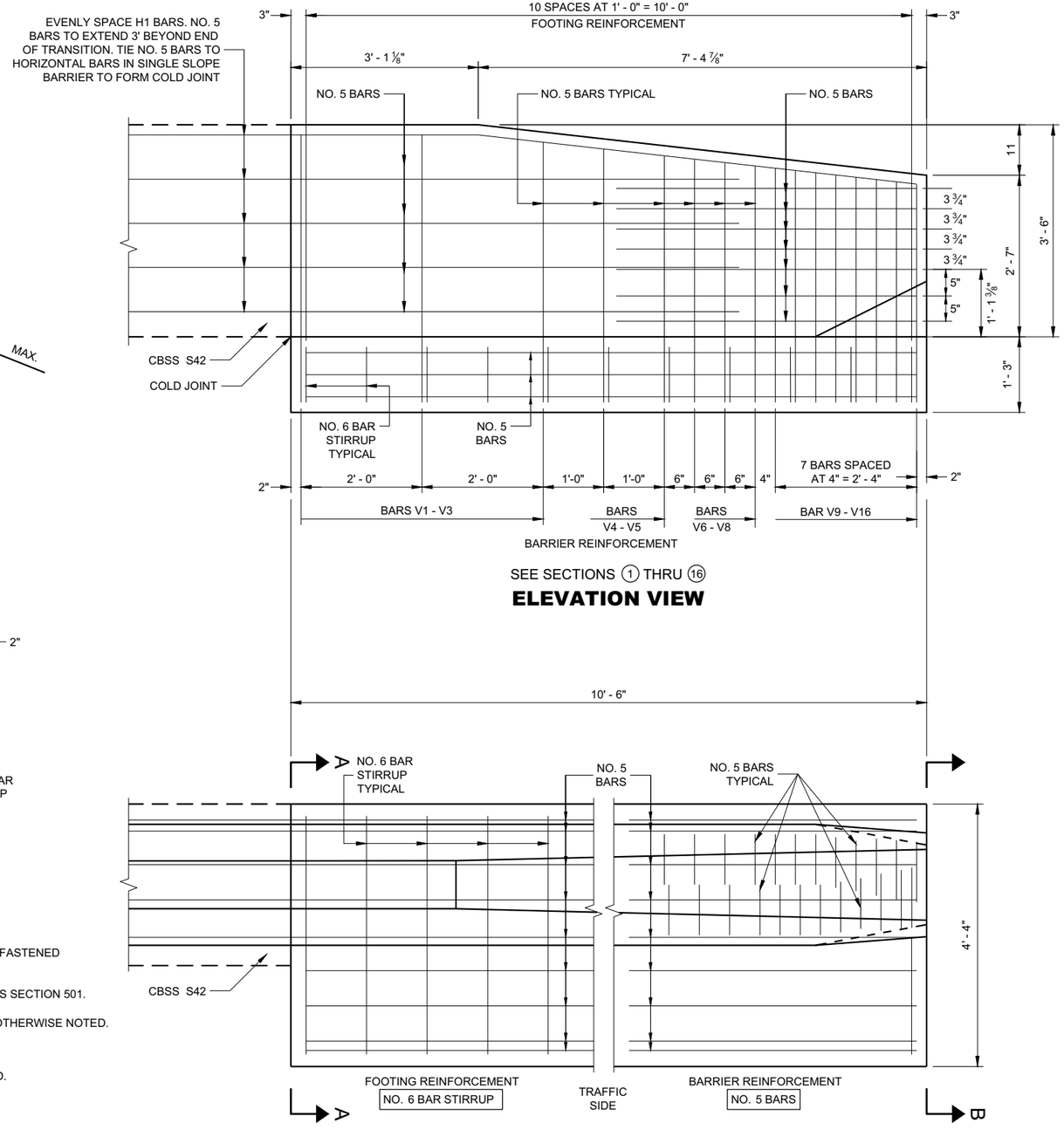
SDD 14B32 - 07d

6

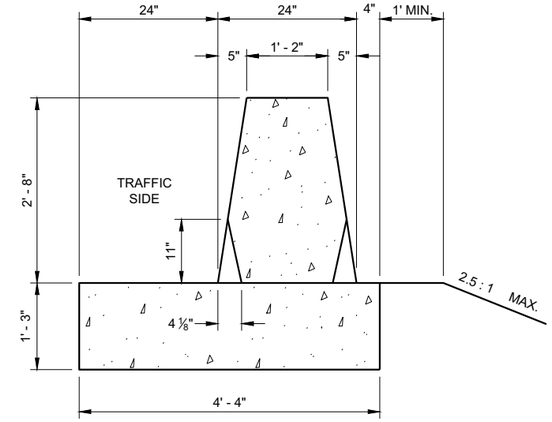
SDD 14B32 - 07d



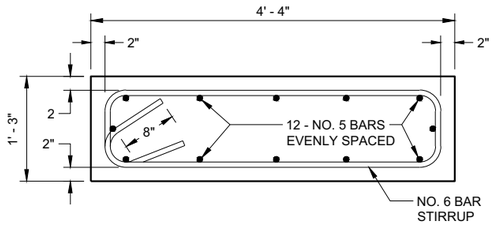
SECTION A - A



ELEVATION VIEW

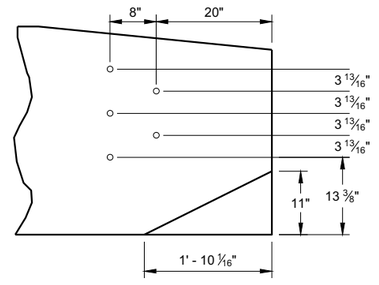


SECTION B - B



TYPICAL FOOTING

PLAN VIEW



PVC PIPE LOCATIONS

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS OTHERWISE NOTED.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS SECTION 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.

THRIE BEAM ANCHOR INCIDENTAL TO CONCRETE BARRIER ITEM.

INSTALL SCHEDULE 40 PVC PIPE 1" DIAMETER AT LOCATIONS INDICATED.

EXTEND PVC PIPE COMPLETELY THROUGH BARRIER.

CUT ENDS OF PVC PIPE FLUSH WITH FINISHED FACE OF BARRIER.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.

2" CLEAR COVER TYPICAL.

CONCRETE BARRIER
SINGLE SLOPE 42"
THRIE BEAM ANCHOR

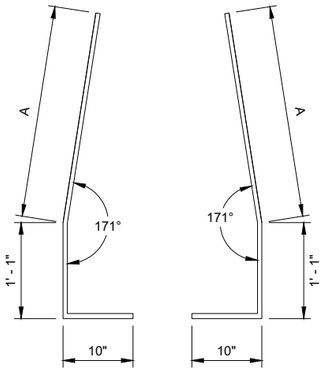
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B33 - 02g

SDD 14B33 - 02g

BAR CHART
BAR POSITIONS
1 - 11

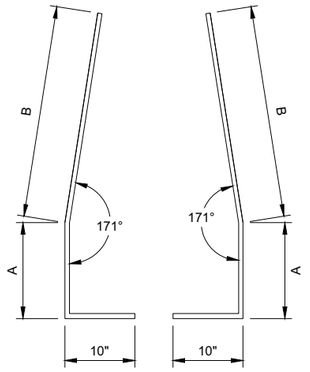
BAR	A
V1	3' - 4 ½"
V2	3' - 4 ½"
V3	3' - 2 ½"
V4	3' - 1"
V5	2' - 11 ½"
V6	2' - 11"
V7	2' - 10 ½"
V8	2' - 9 ½"
V9	2' - 9"
V10	2' - 8 ½"
V11	2' - 8"



BAR BENDING DETAIL
SECTIONS V1 - V4

BAR CHART
BAR POSITIONS
12 - 13

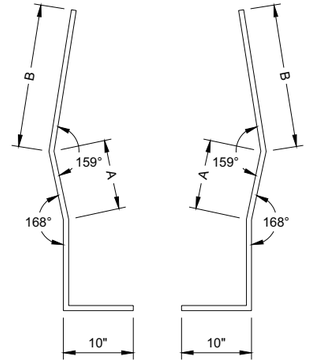
BAR	A	B
V12	1' - 3"	2' - 6"
V13	1' - 8"	2' - 1 ½"



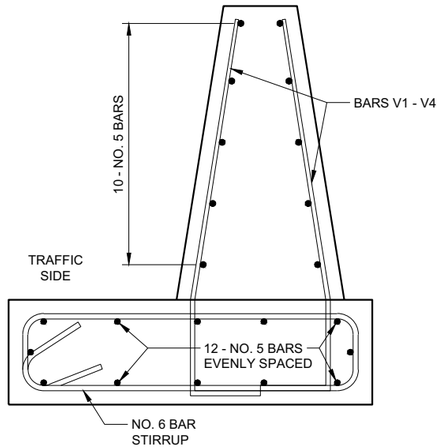
BAR BENDING DETAIL
SECTIONS V12 - V13

BAR CHART
BAR POSITIONS
14 - 16

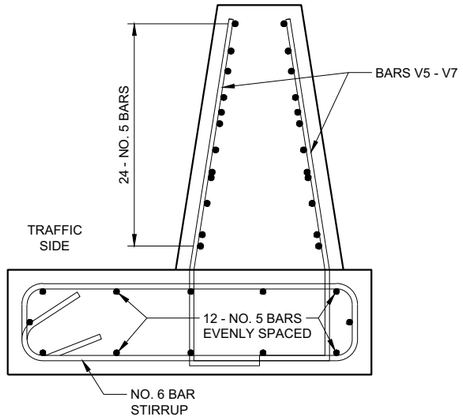
BAR	A	B
V14	6"	2' - 1"
V15	8"	1' - 11"
V16	10"	1' - 8 ½"



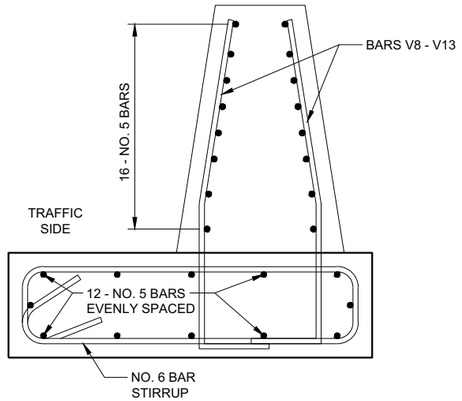
BAR BENDING DETAIL
SECTIONS V14 - V16



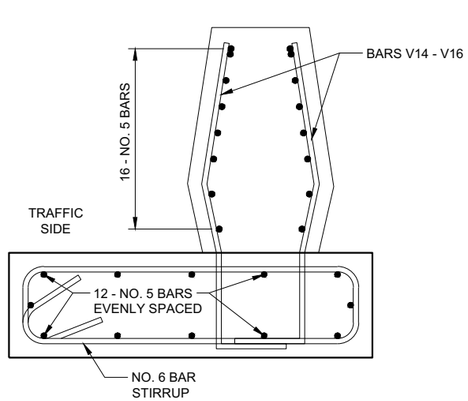
BAR DETAIL
SECTIONS 1 - 4



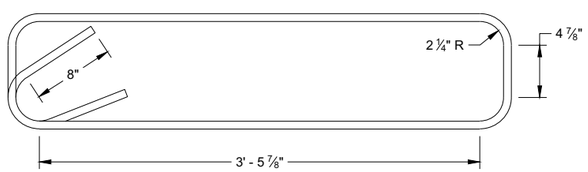
BAR DETAIL
SECTIONS 5 - 7



BAR DETAIL
SECTIONS 8 - 13



BAR DETAIL
SECTIONS 14 - 16



STIRRUP BAR
BENDING DETAIL

CONCRETE BARRIER
SINGLE SLOPE 42"
THRIE BEAM ANCHOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

6

SDD 14B33 - 02h

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

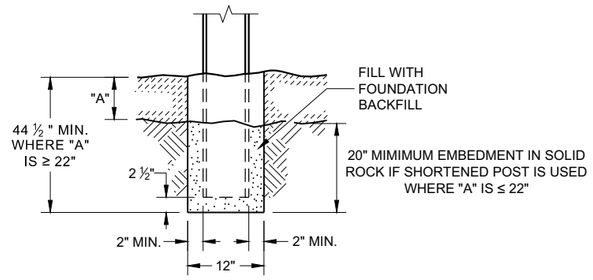
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

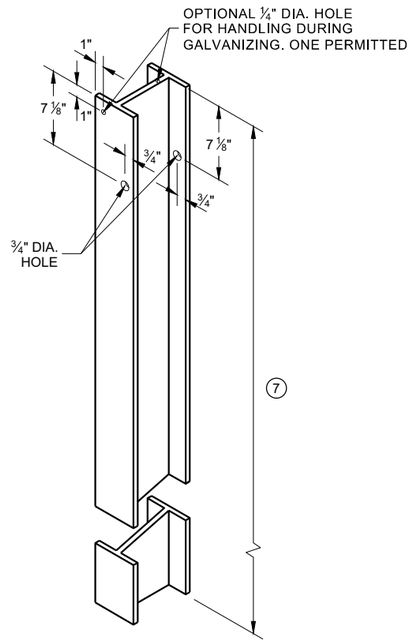
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS +1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

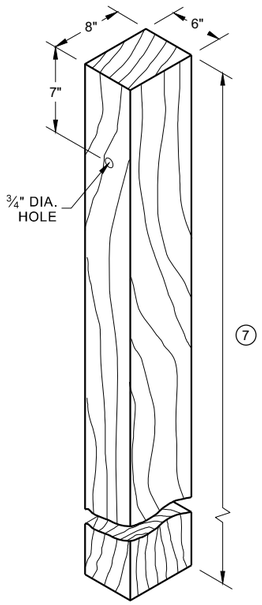
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



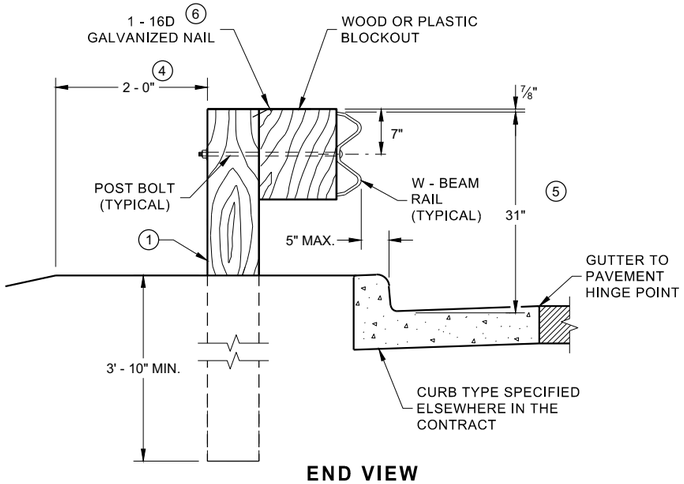
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



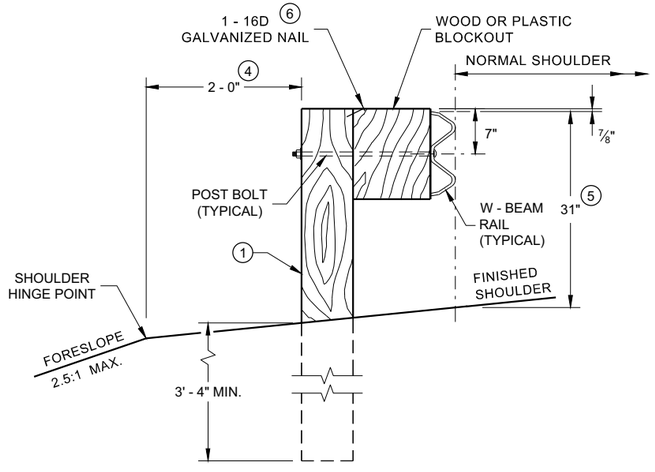
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



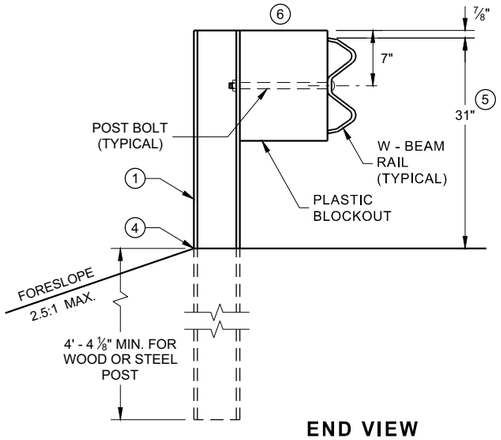
WOOD POST (6" X 8") NOMINAL (1)



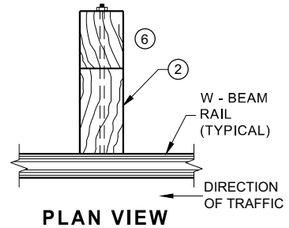
END VIEW
LOCATED ALONG A CURBED ROADWAY



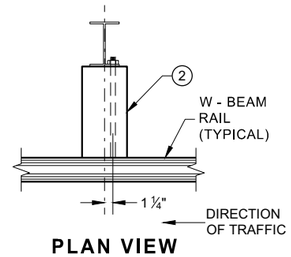
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



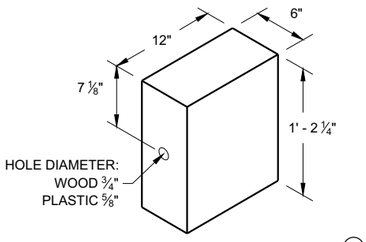
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM

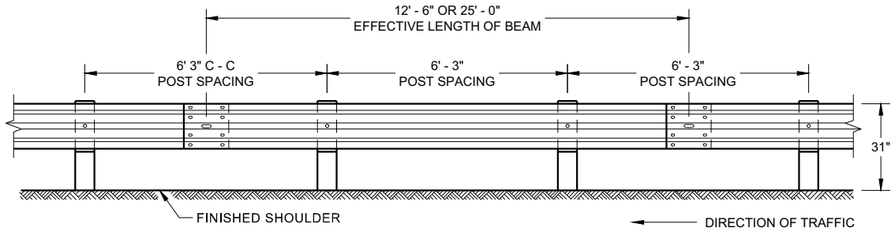


WOOD OR PLASTIC BLOCKOUT (2)

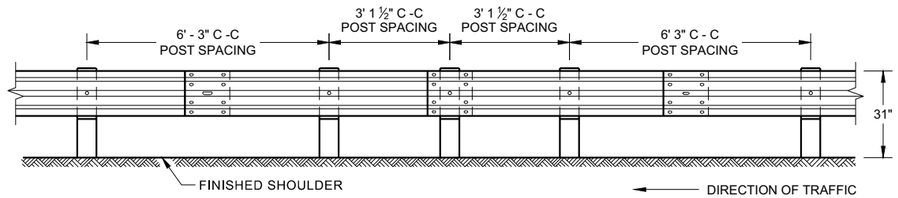
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

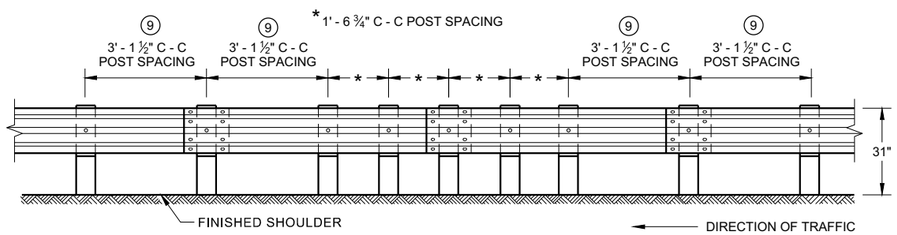
SDD 14B42 - 06a



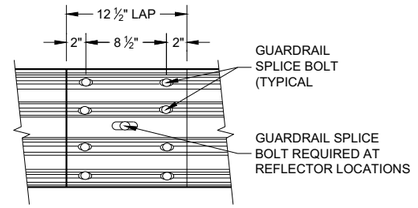
FRONT VIEW
POST SPACING STANDARD INSTALLATION



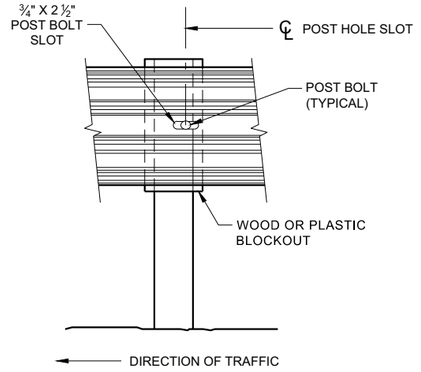
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



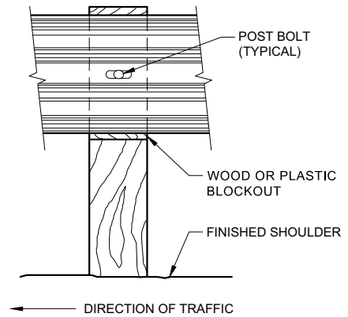
FRONT VIEW
QUARTER POST SPACING (QS)



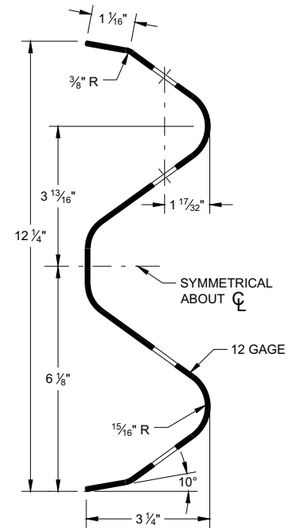
FRONT VIEW
MID-SPAN BEAM SPLICE



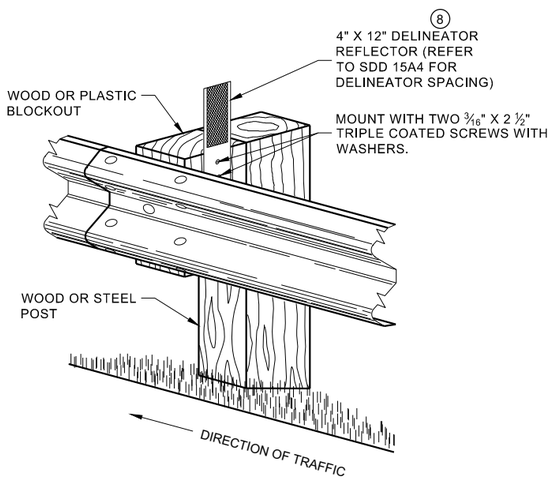
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

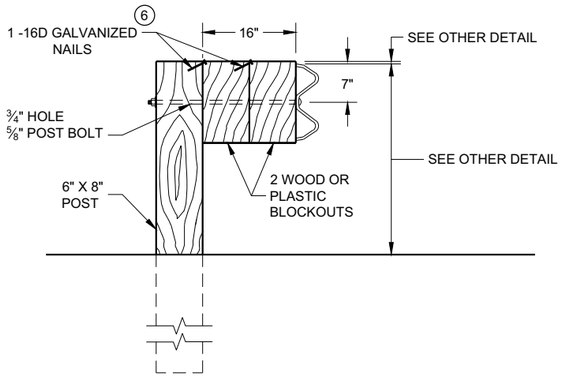
POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B42 - 06b

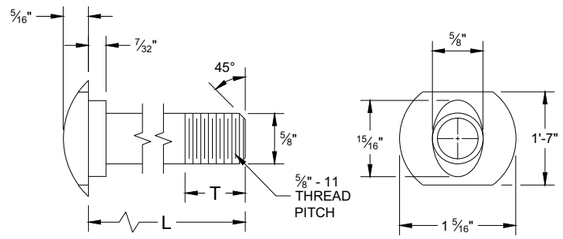


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

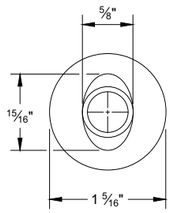
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

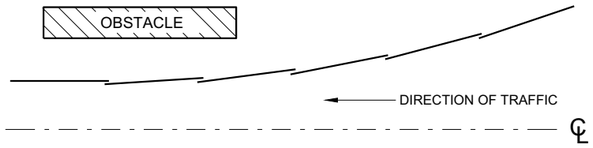


POST BOLT TABLE

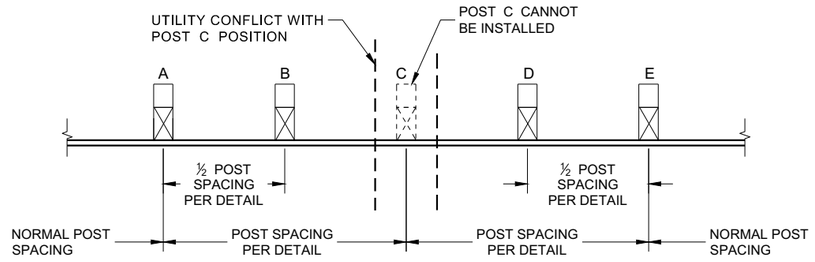
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



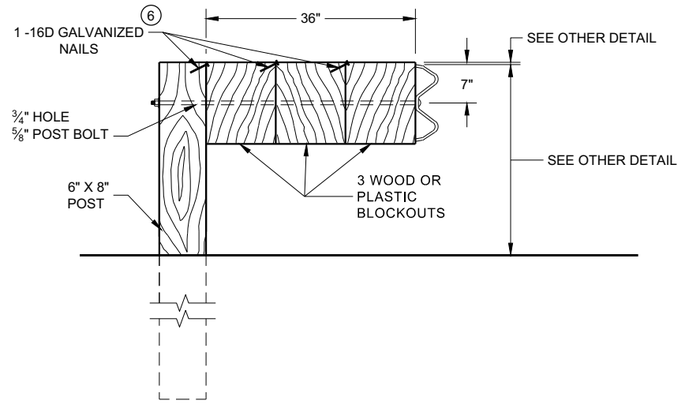
ALTERNATE BOLT HEAD



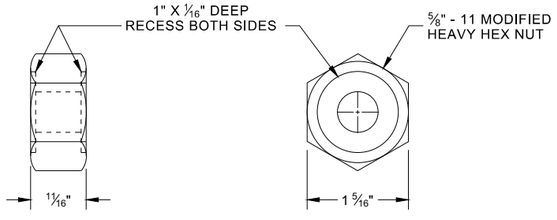
PLAN VIEW
BEAM LAPPING DETAIL



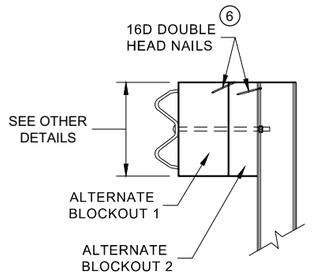
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



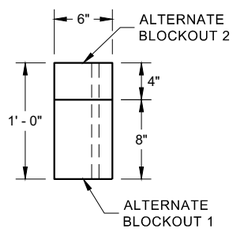
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

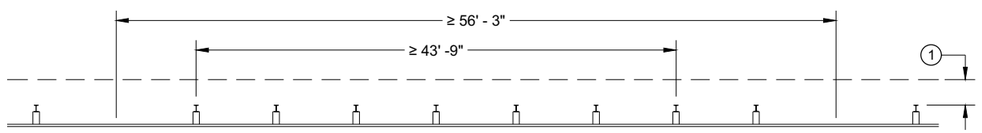
NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

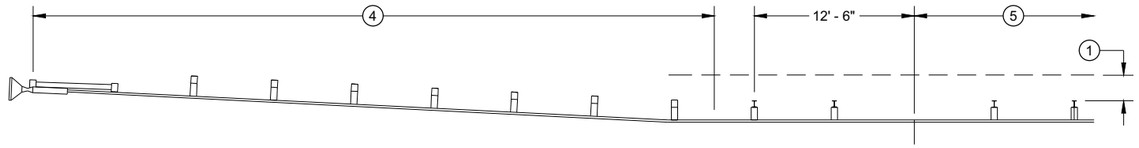
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

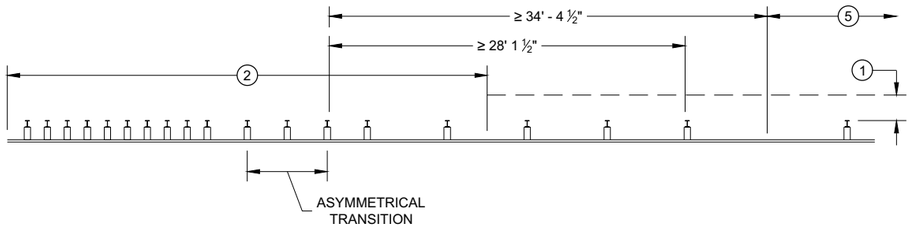
6
SDD 14B42 - 06c



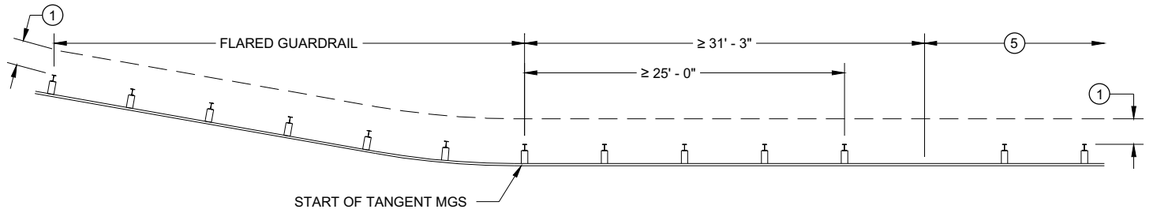
MISSING POST IN NORMAL BEAM GUARD RUN



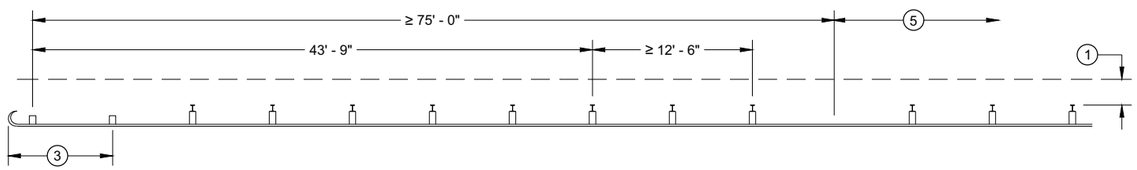
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



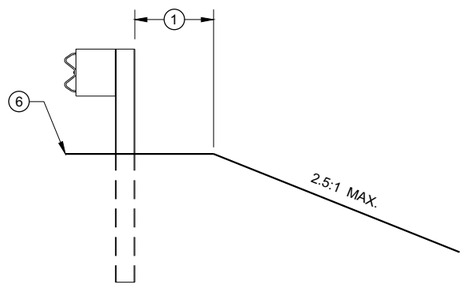
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

1. MINIMUM OF 2 FEET OF GRADING BEHIND POST.
2. SEE SDD 14B45 FOR MORE DETAILS.
3. SEE SDD 14B47 FOR MORE DETAILS.
4. SEE SDD 14B44 FOR MORE DETAILS.
5. SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.
6. SEE PLAN FOR SHOULDER DESIGN.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR
FHWA

6

SDD 14B42 - 06d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

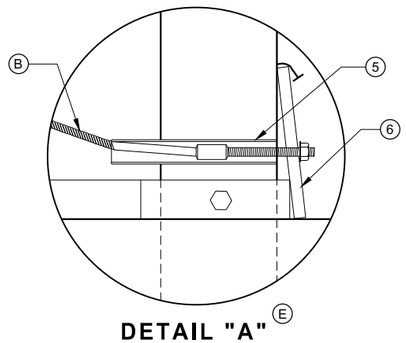
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

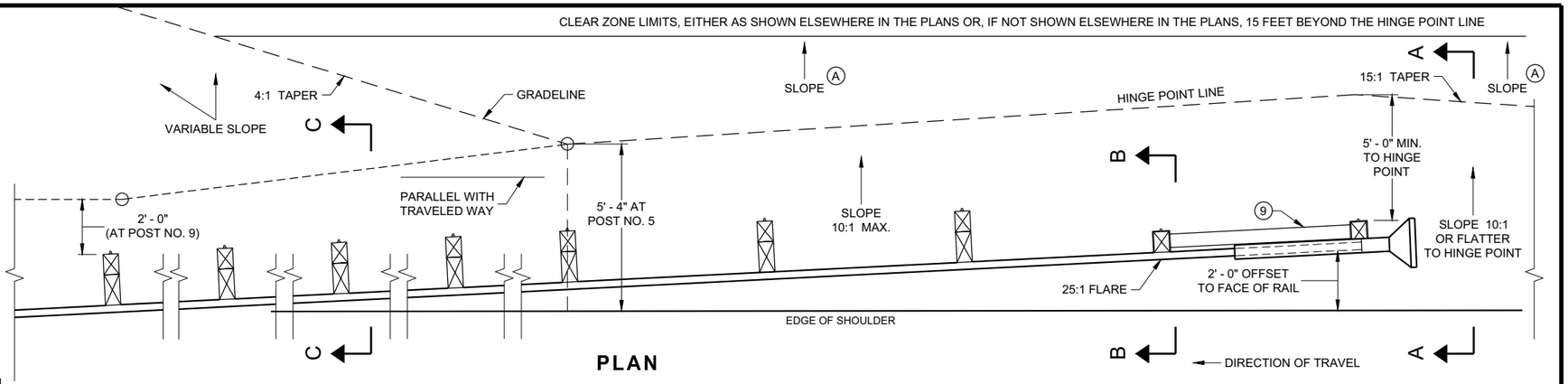
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

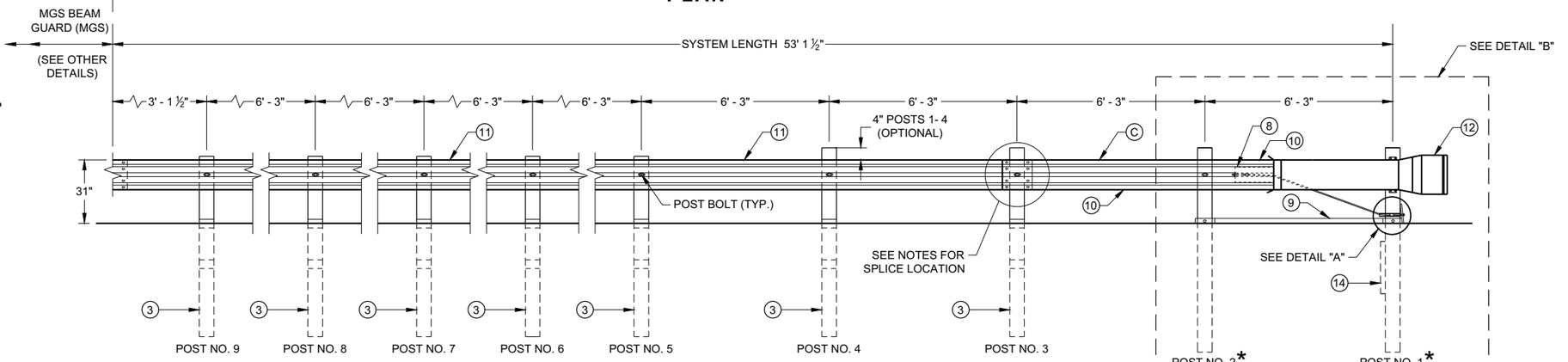
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



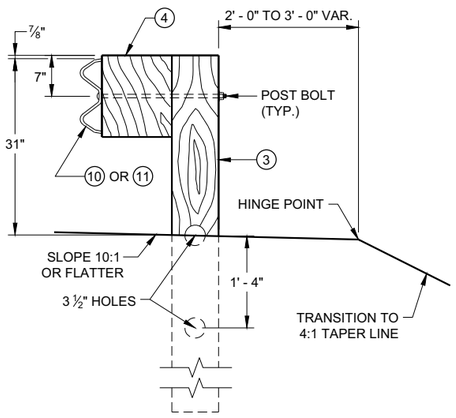
DETAIL "A" (E)



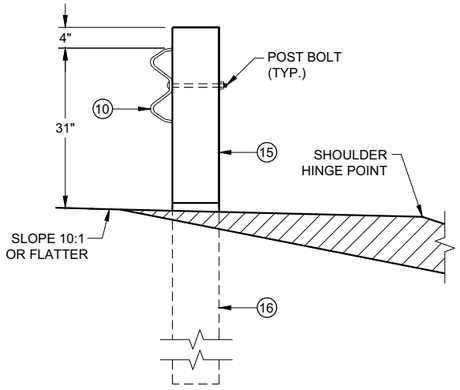
PLAN



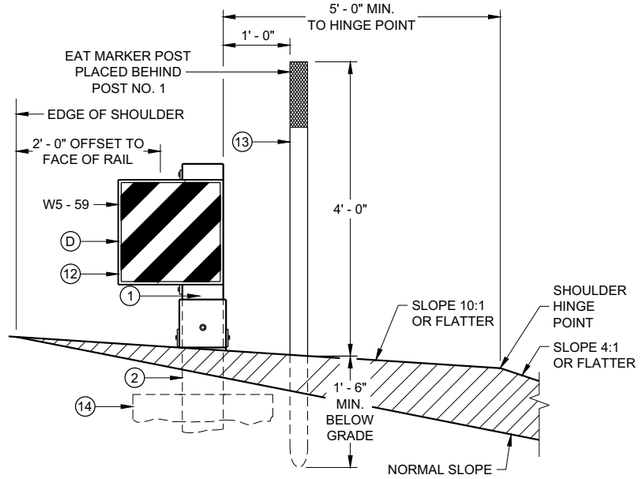
ELEVATION



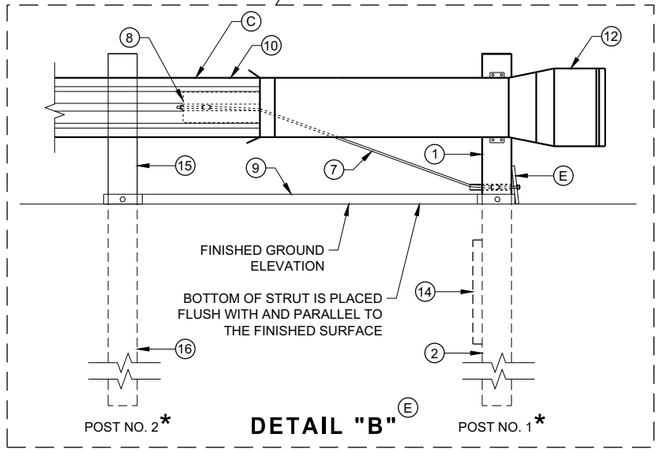
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



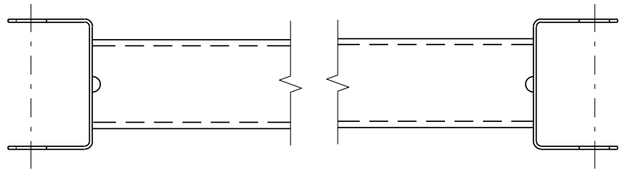
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

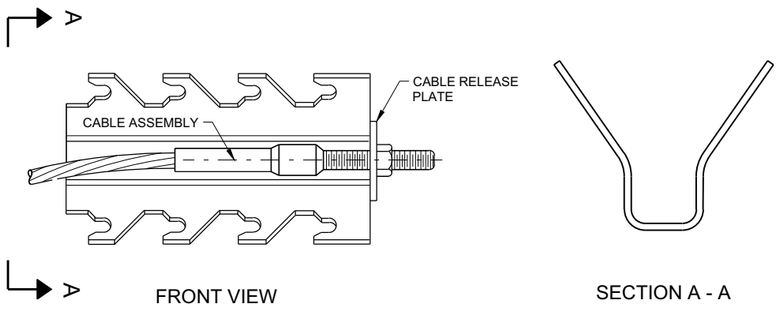
SDD 14B44 - 04a



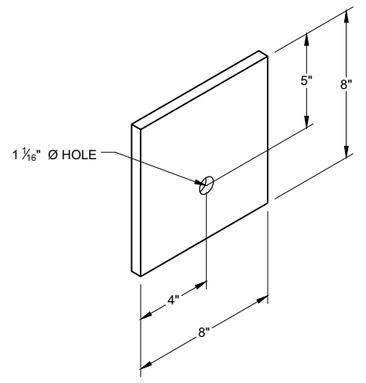
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑨ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

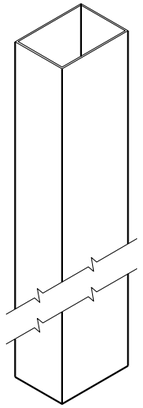
6

SDD 14B44 - 04b

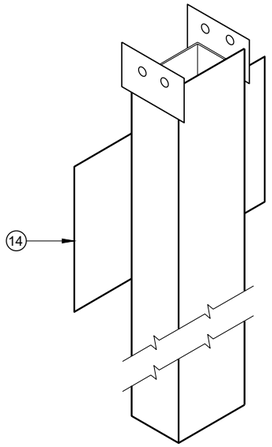
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

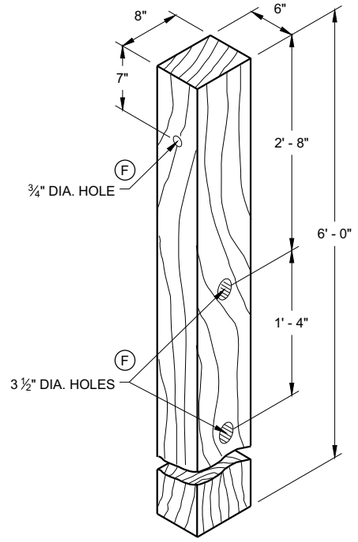
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



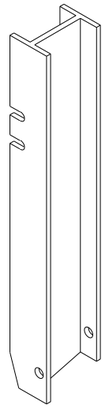
UPPER POST NO. 1 (1) (E)



LOWER POST NO. 1 (2) (E)



WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



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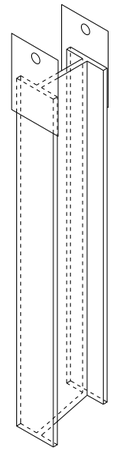

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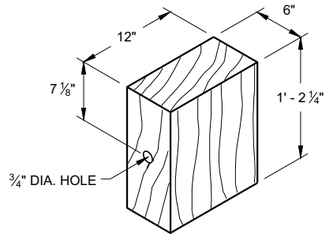
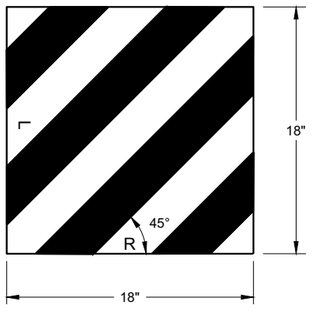
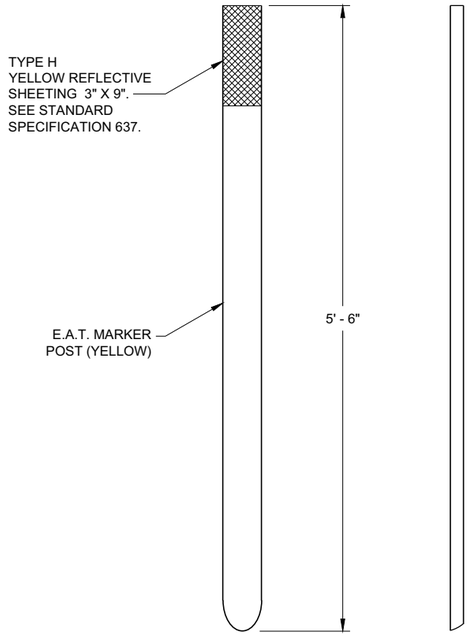


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



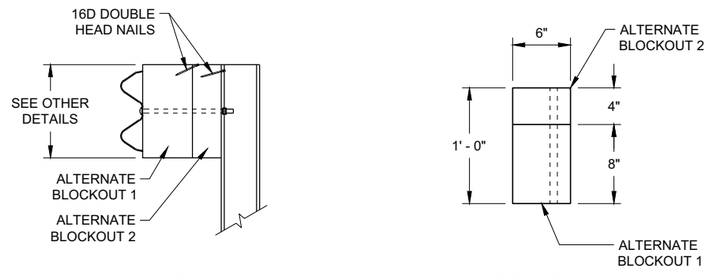
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

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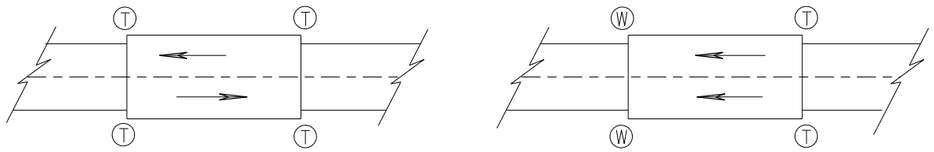
SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

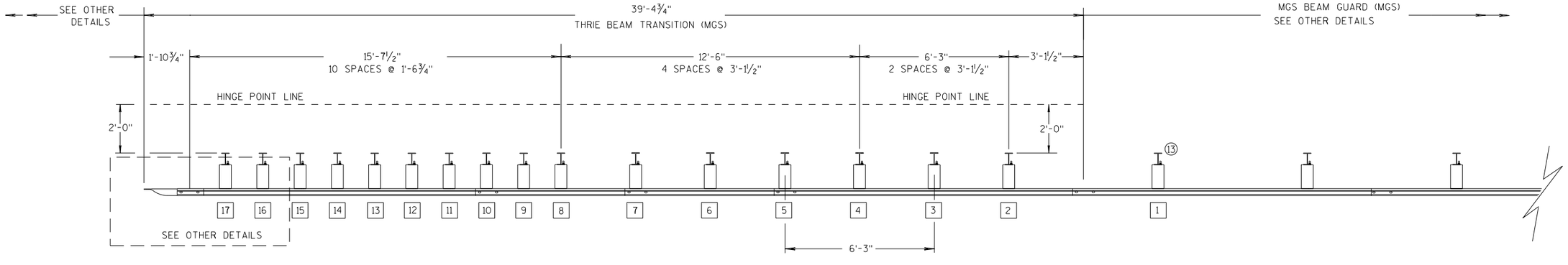
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

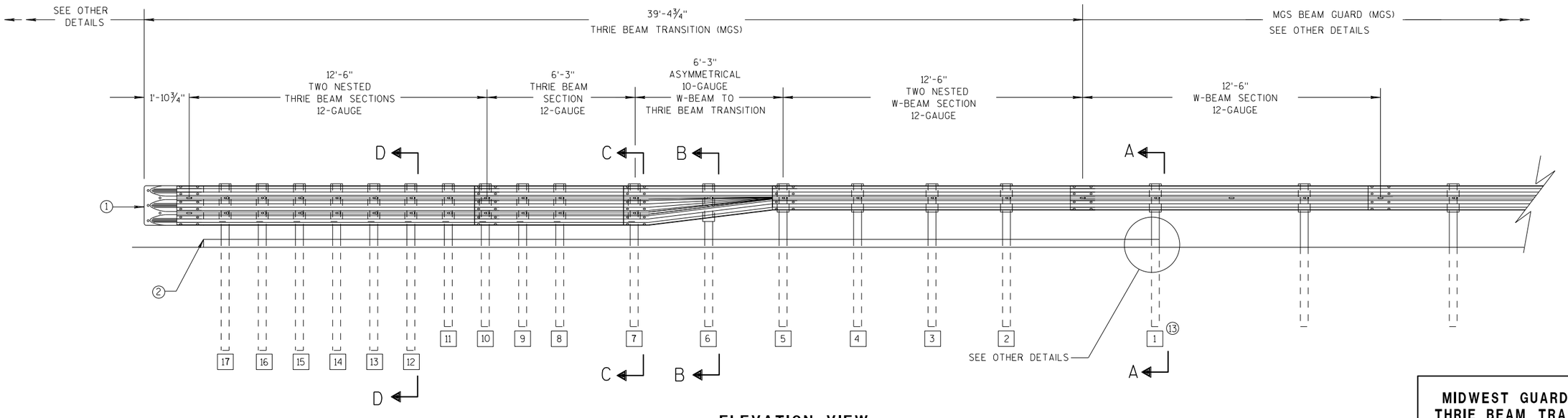
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 522

6

S.D.D. 14 B 45-5a

6

S.D.D. 14 B 45-5a

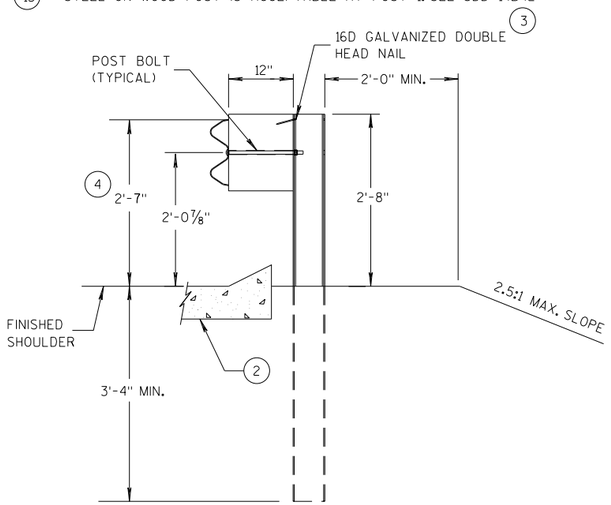
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

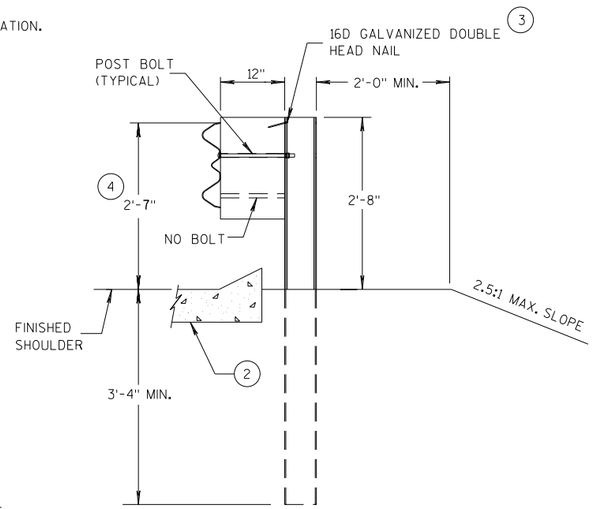
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



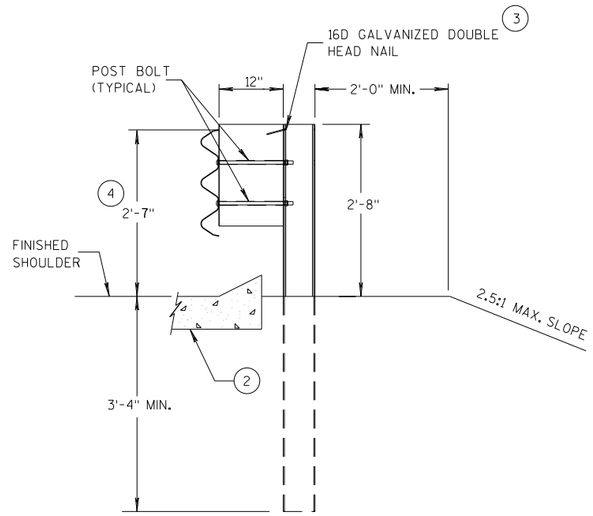
SECTION A-A (13)

POSTS 1-5



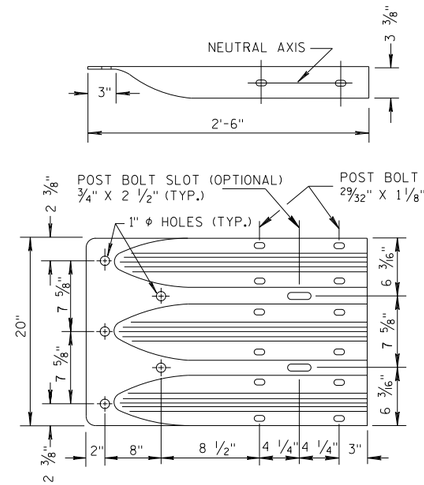
SECTION B-B

POST 6

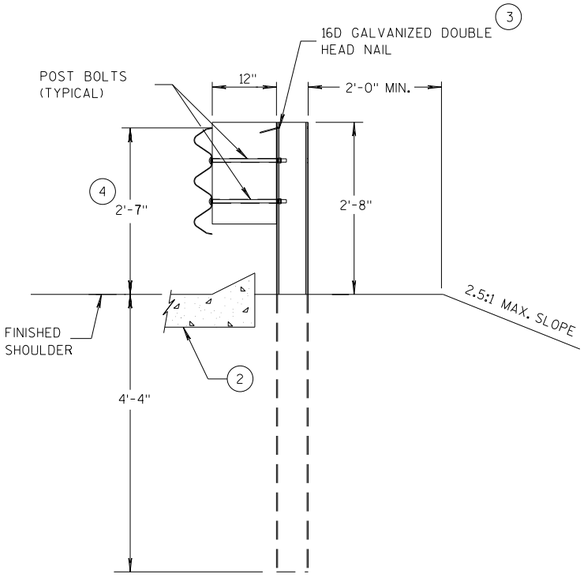


SECTION C-C

POSTS 7-11

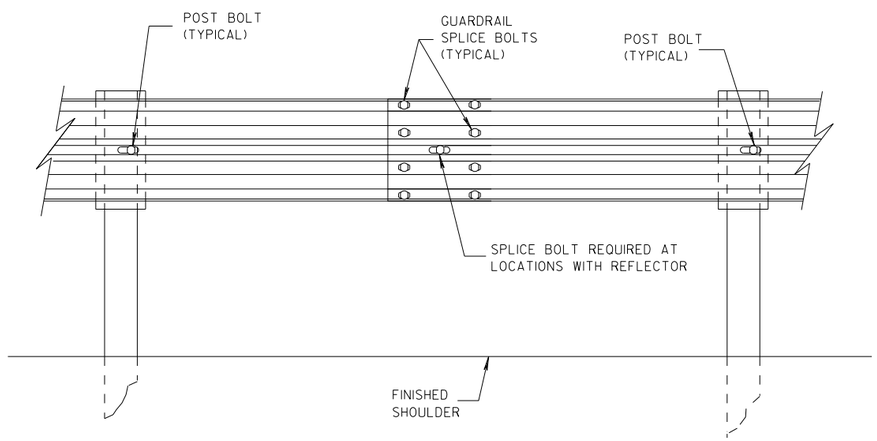


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

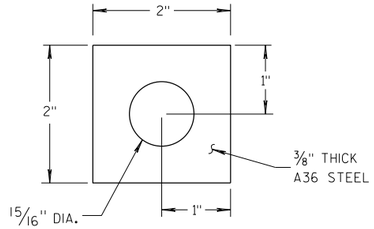
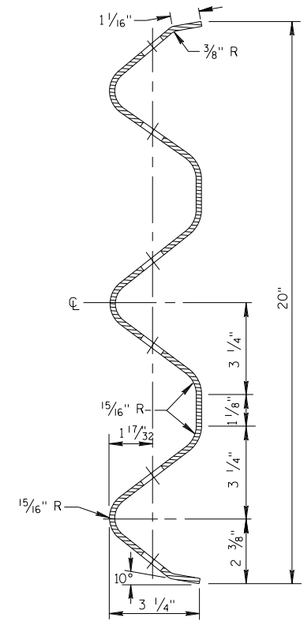


PLATE WASHER DETAIL



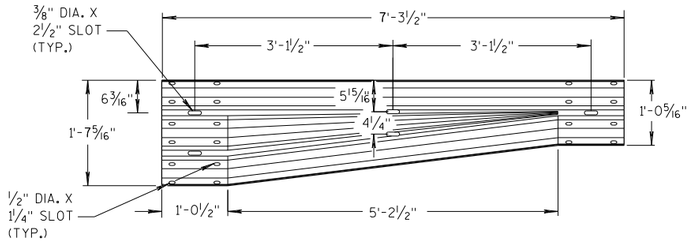
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

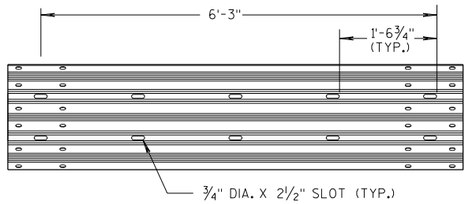
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

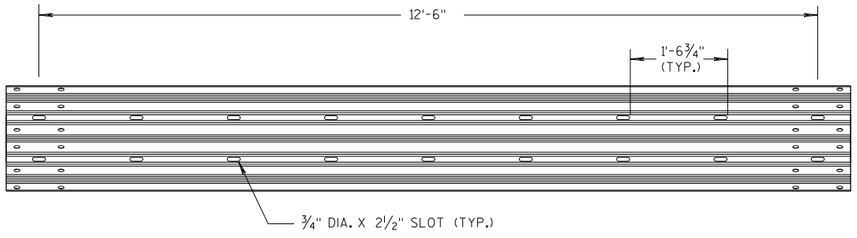
S.D.D. 14 B 45-5b



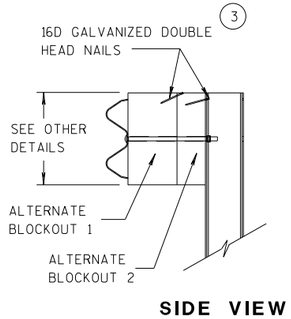
W-BEAM TO THRIE BEAM TRANSITION SECTION



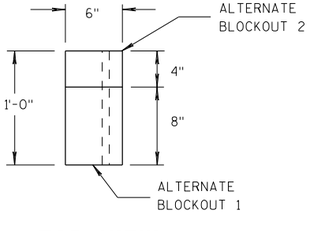
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

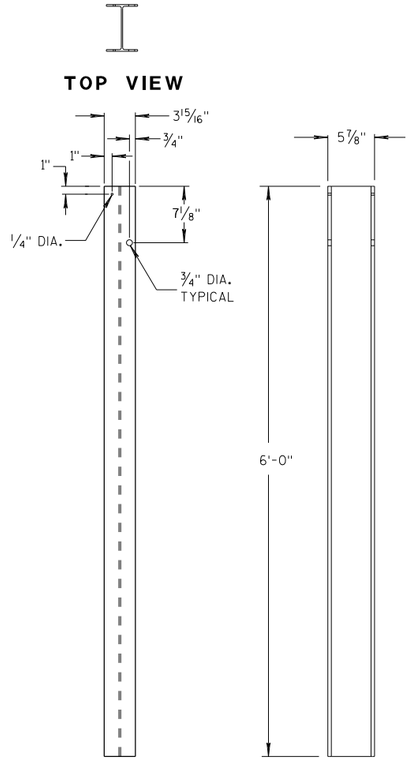


SIDE VIEW



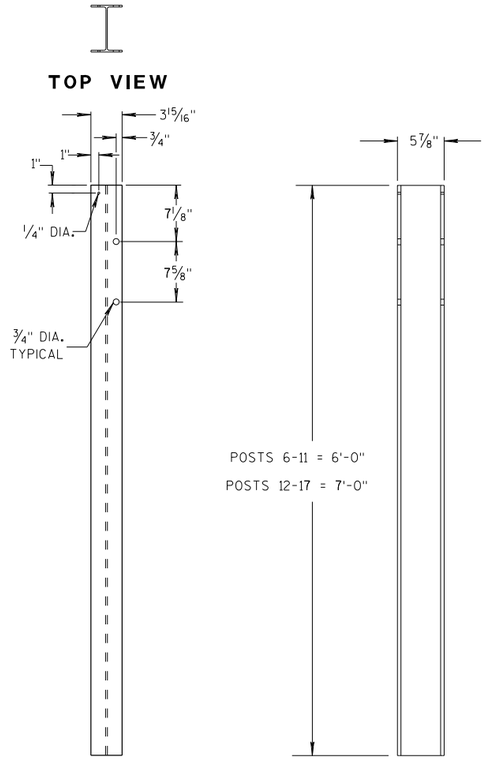
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



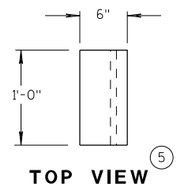
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

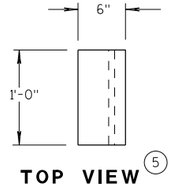


FRONT VIEW SIDE VIEW

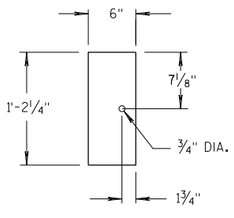
STEEL POSTS 6-17



TOP VIEW (5)

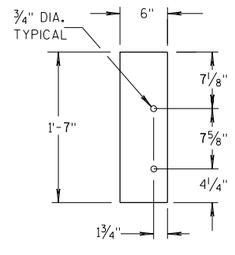


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

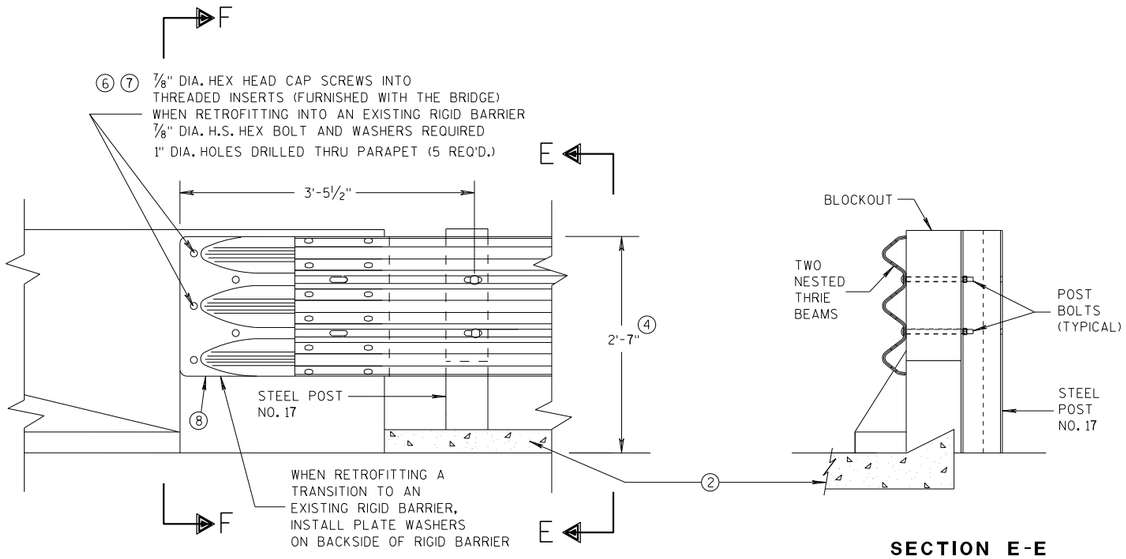
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 524

6
S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

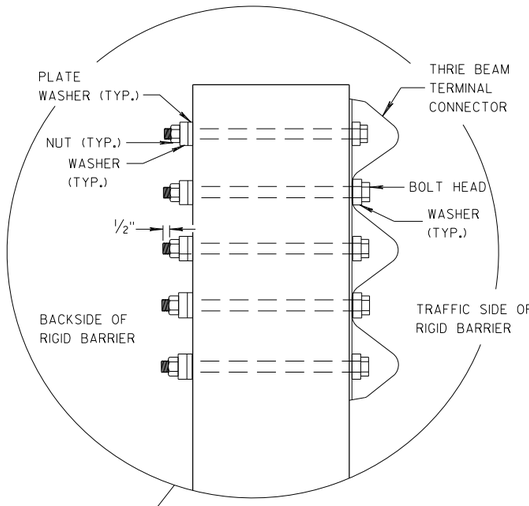
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

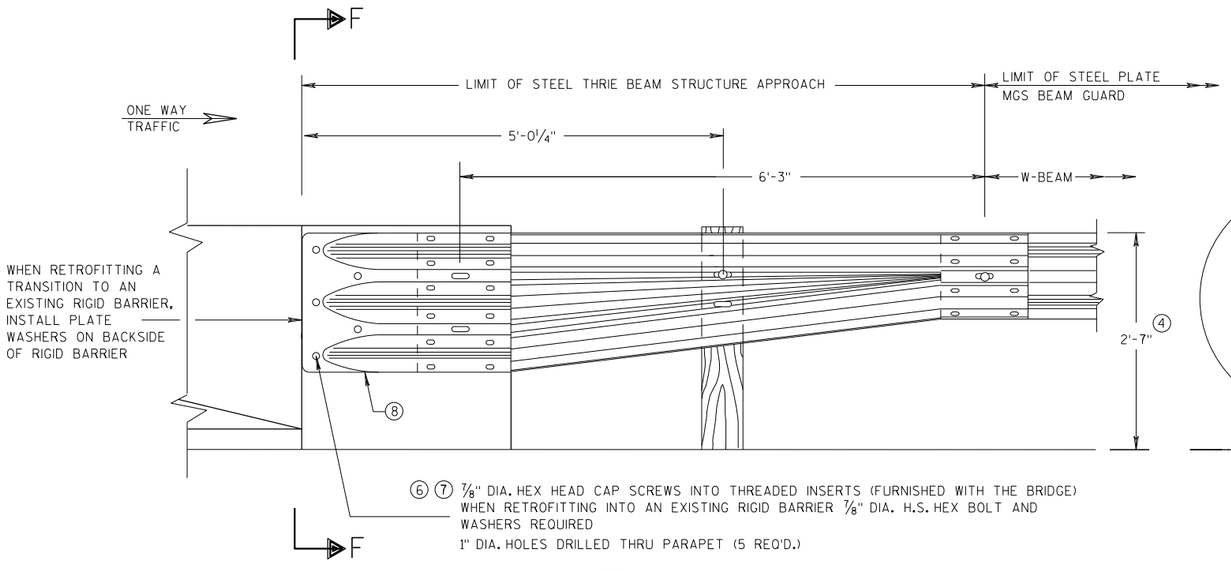
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

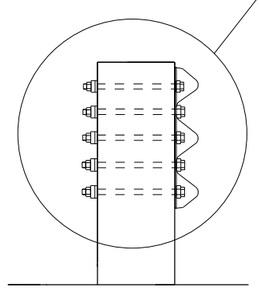
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

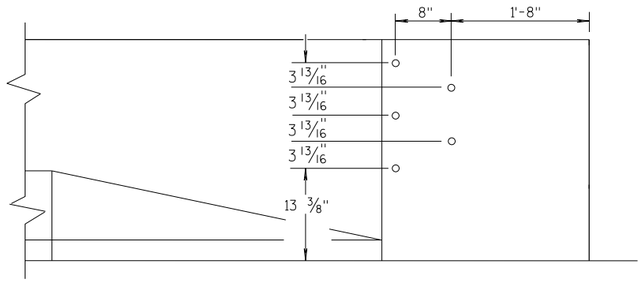




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D[UNIT SUPERVIS[— NT
FHWA

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S.D.D. 14 B 45-5d

6

S.D.D. 14 B 45-5d

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

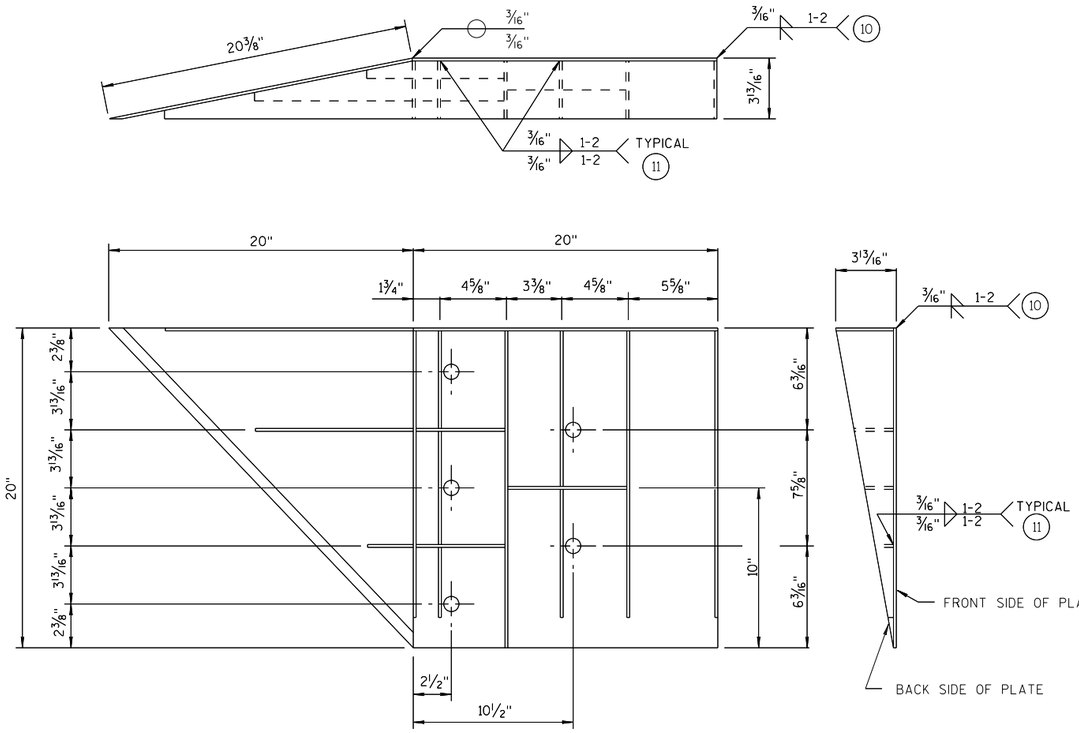
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

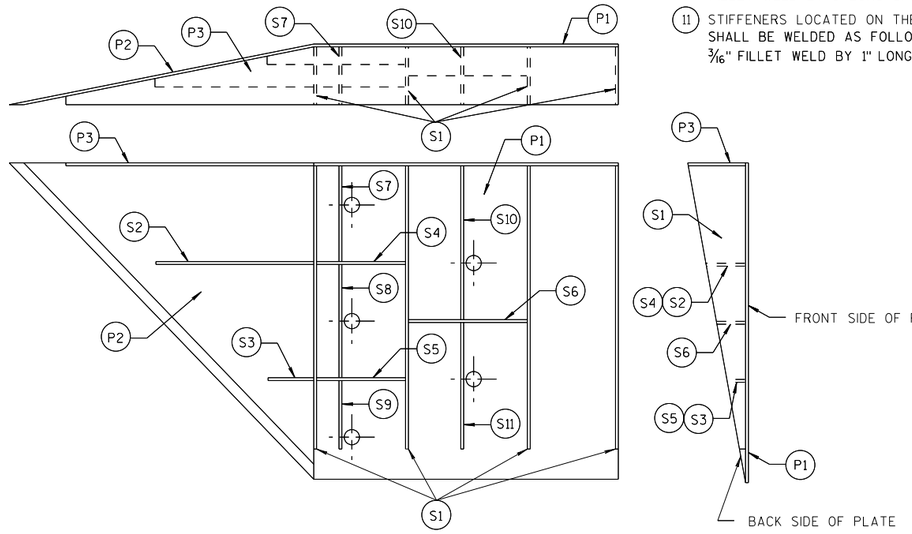


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS I ENT
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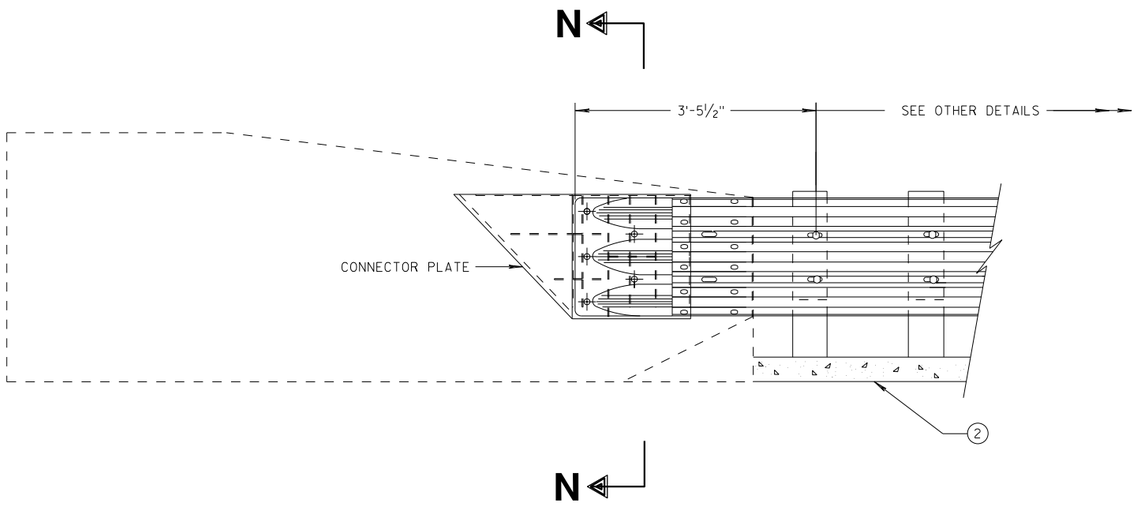
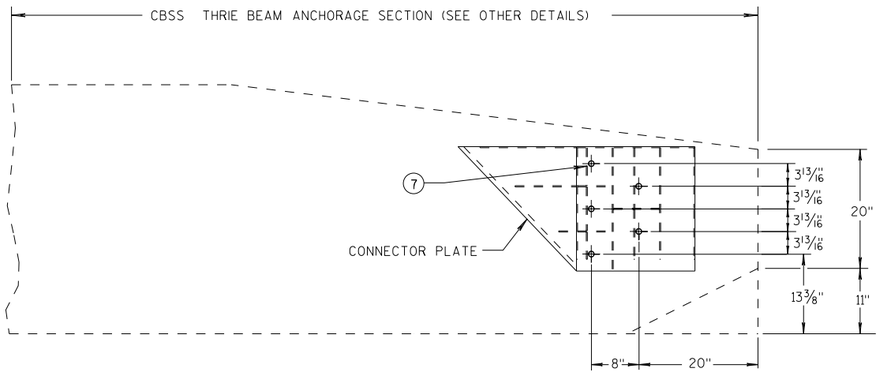
S.D.D. 14 B 45-5i



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



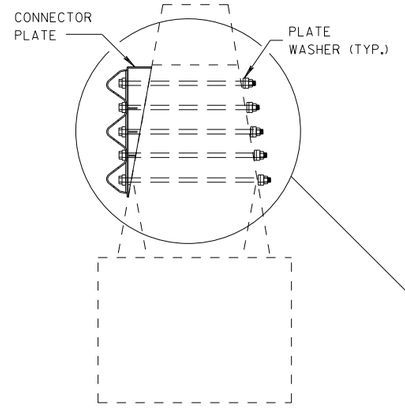
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

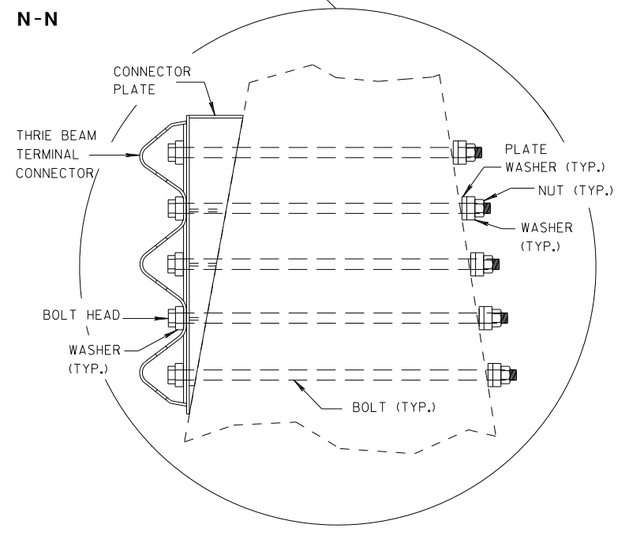
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DI UNIT SUPERVIS
FHWA

6

S.D.D. 14 B 45-5j

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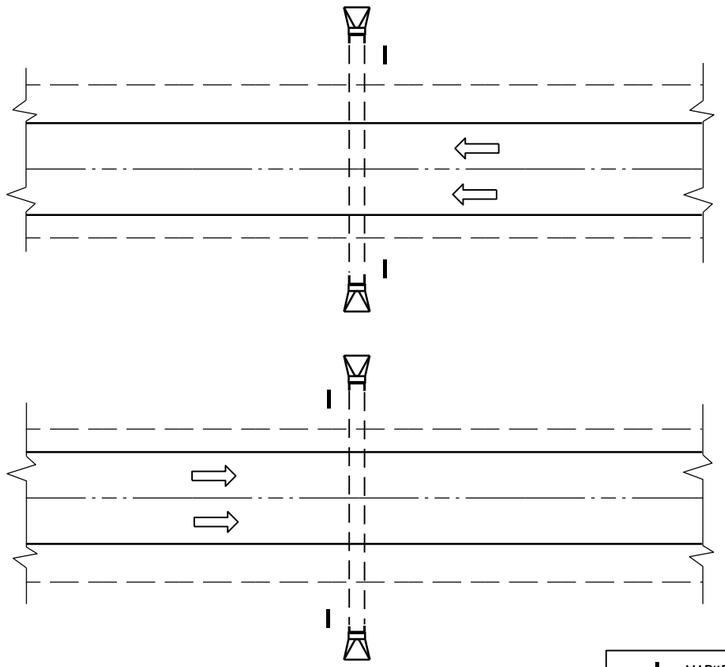
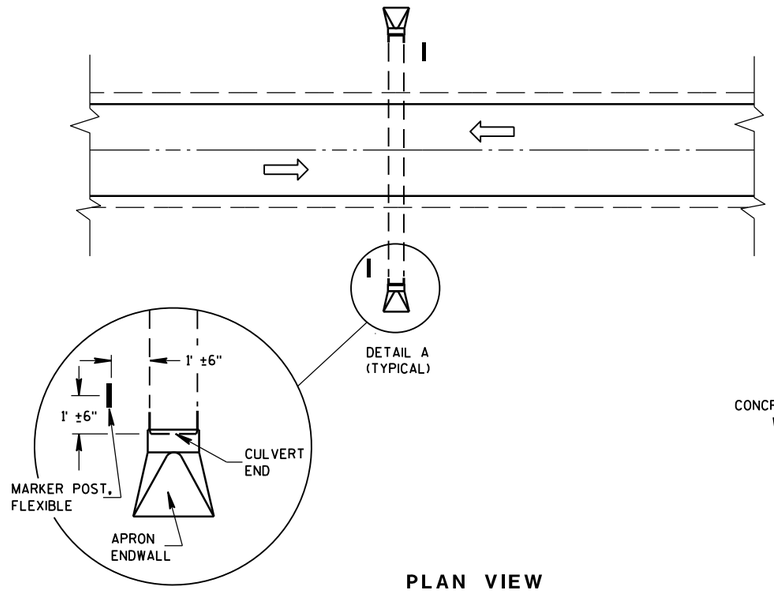
S.D.D. 14 B 45-5j



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

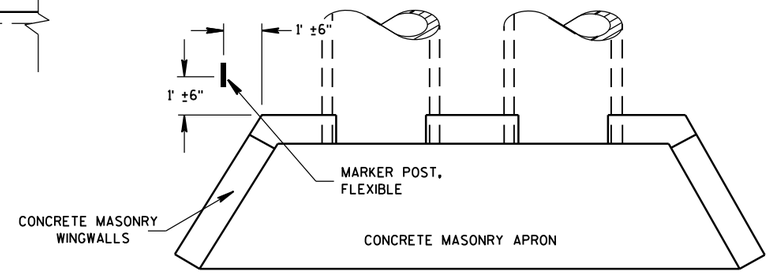
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

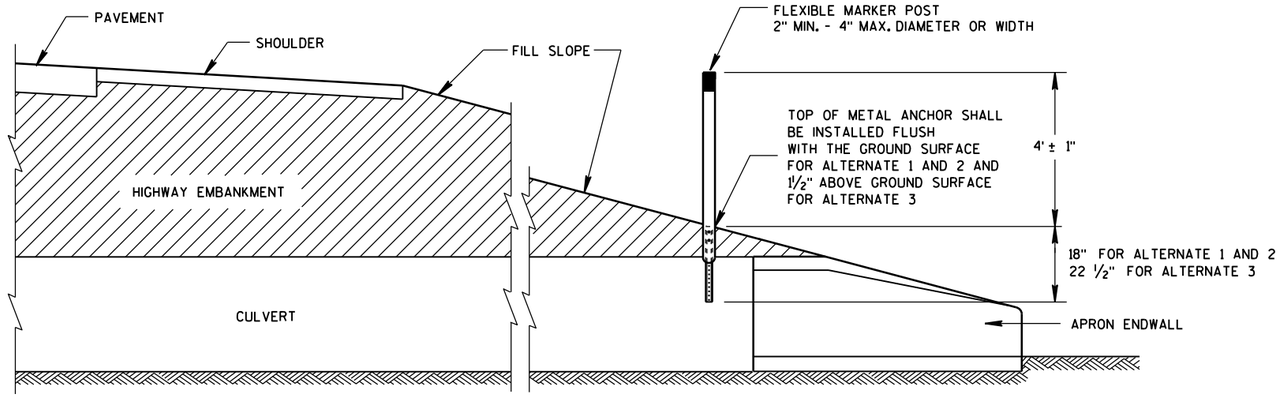
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 A 3-2a

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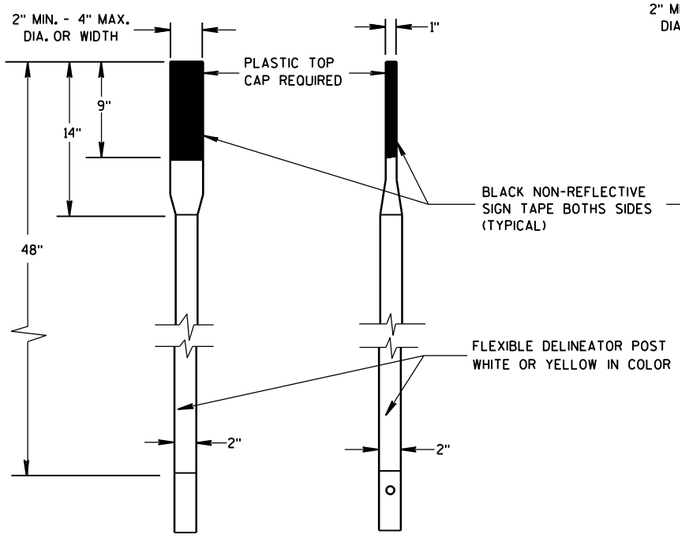
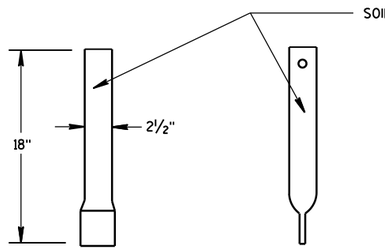
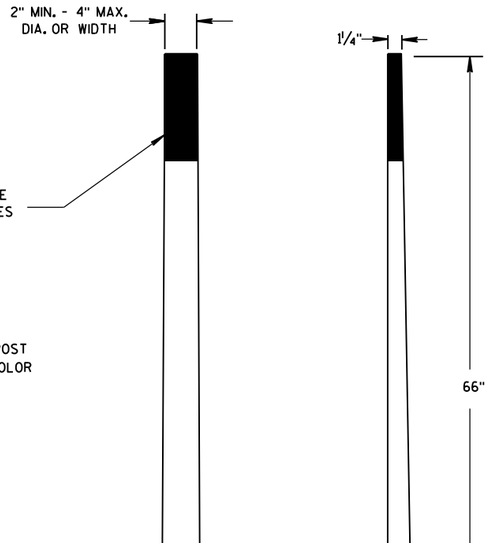
S.D.D. 15 A 3-2a





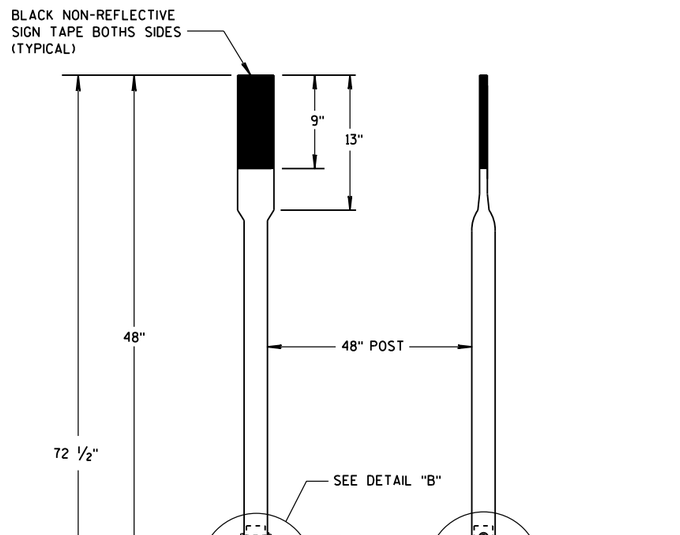
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

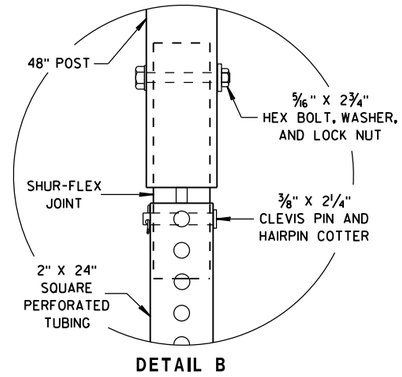
ALTERNATE 2



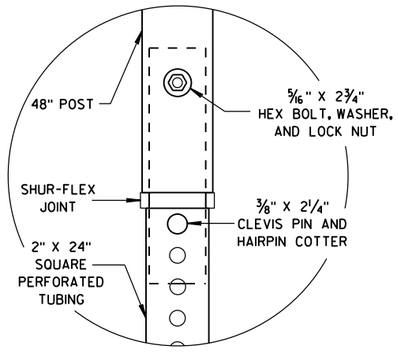
FRONT VIEW SIDE VIEW

ALTERNATE 3

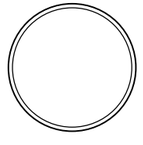
FLEXIBLE MARKER POSTS



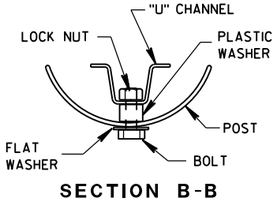
DETAIL B



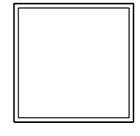
DETAIL C



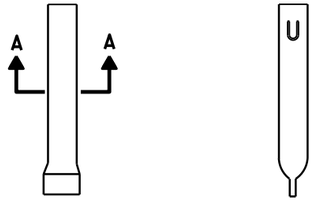
SECTION A-A



SECTION B-B

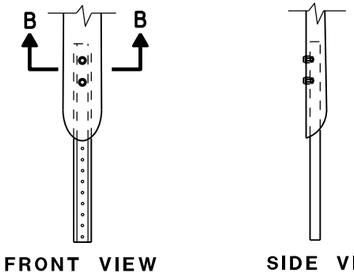


SECTION C-C



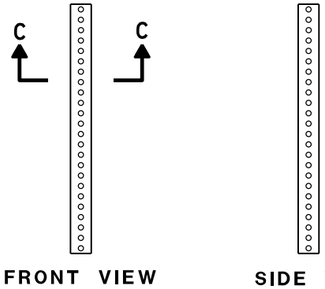
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 A 3-2b

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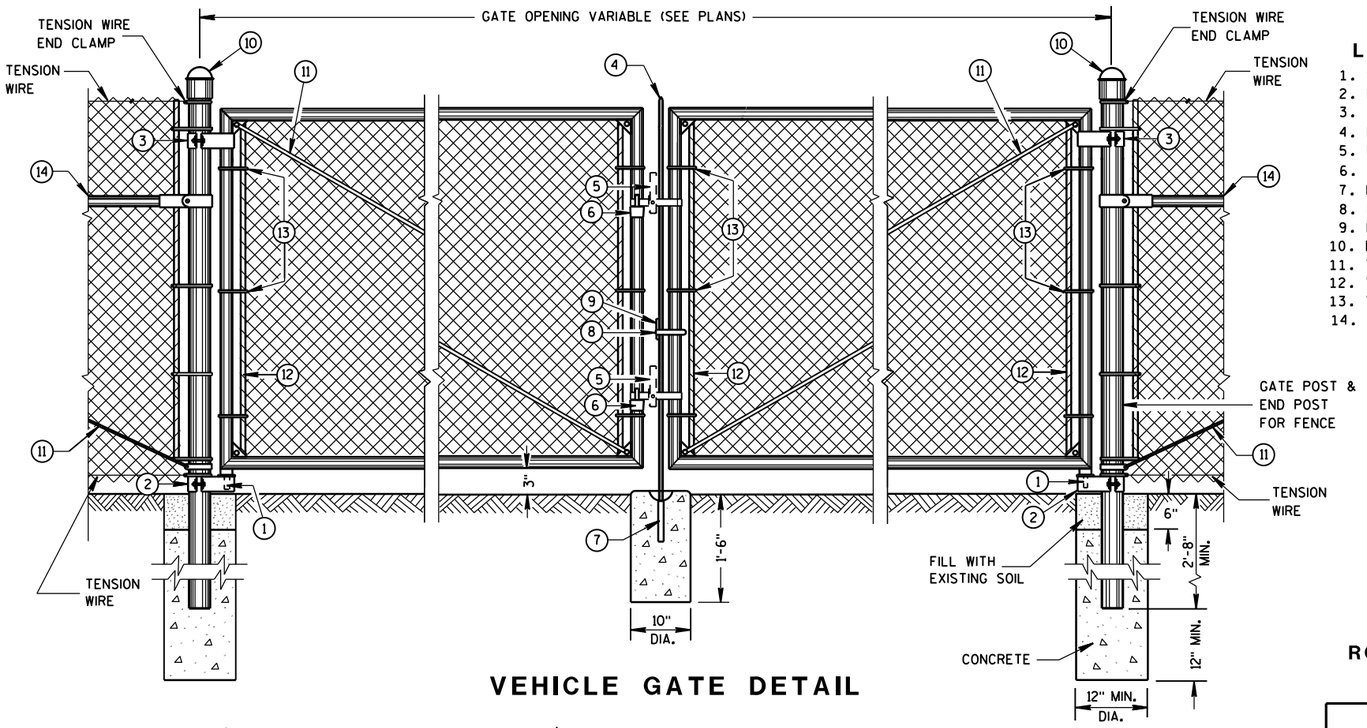
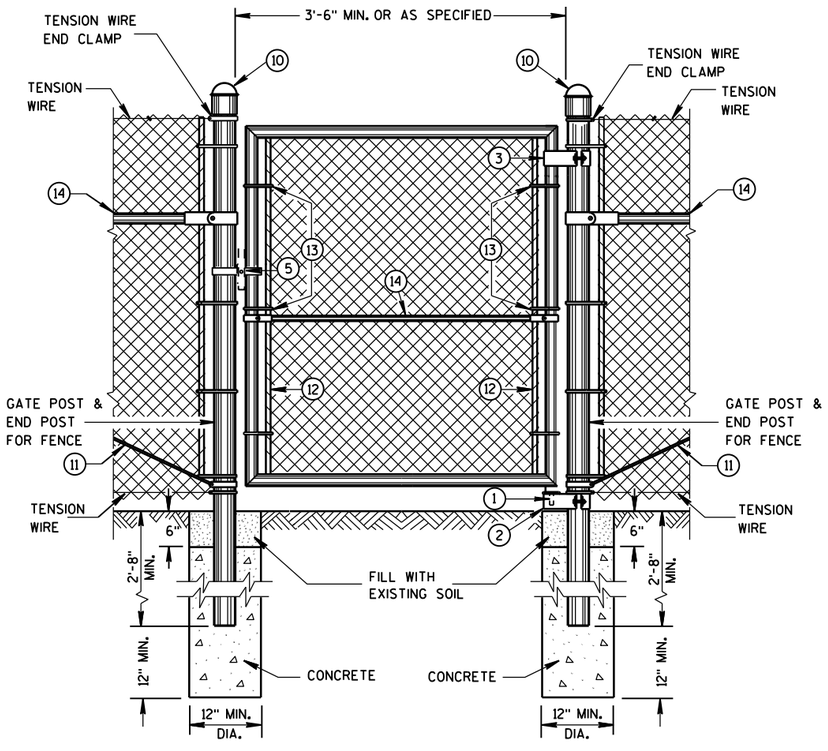
S.D.D. 15 A 3-2b



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

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

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

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

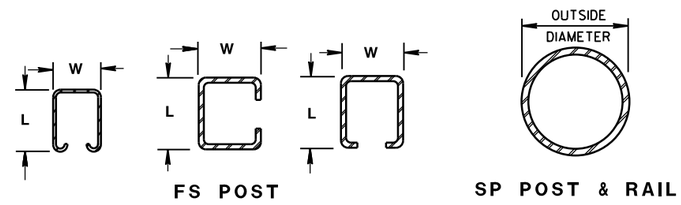
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

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

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

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

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



CROSS SECTIONS OF POSTS AND RAILS

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

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

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

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

REQUIRED FENCE POST SIZES

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

REQUIRED POST SIZE FOR GATES

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

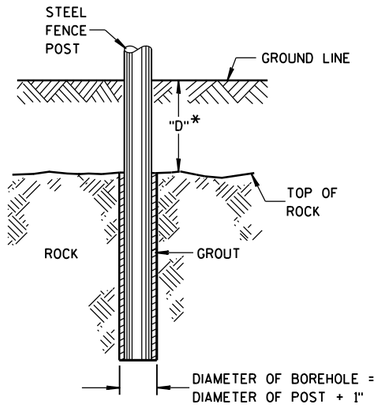
BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

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

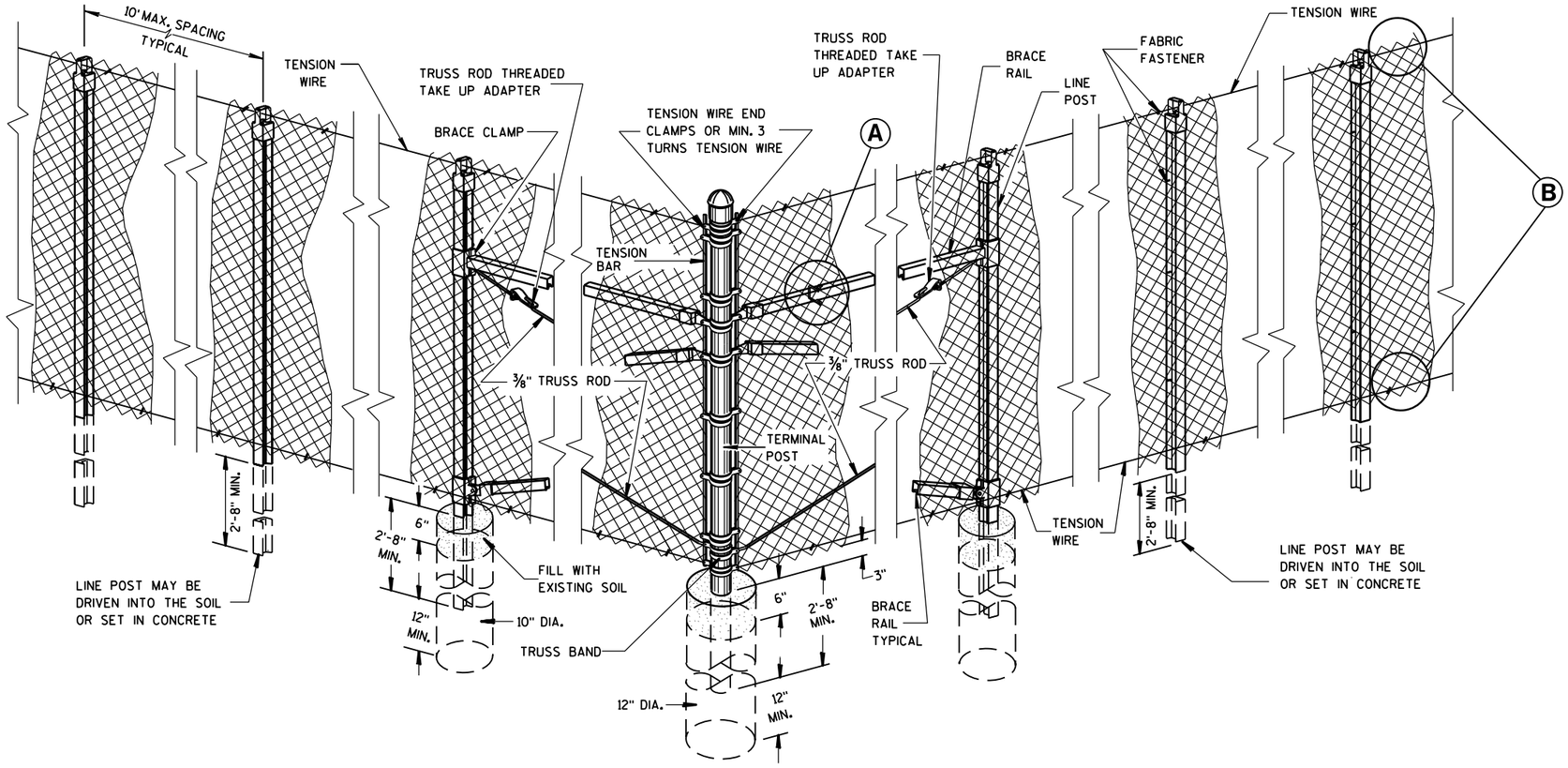
FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 530

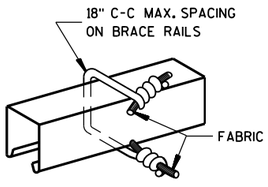


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



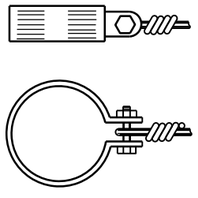
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



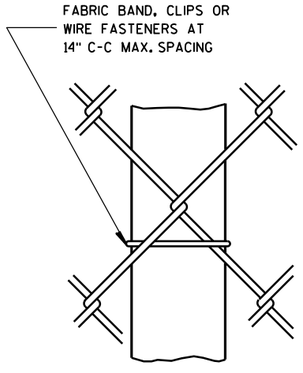
BRACE RAIL

FABRIC FASTENER

Ⓐ



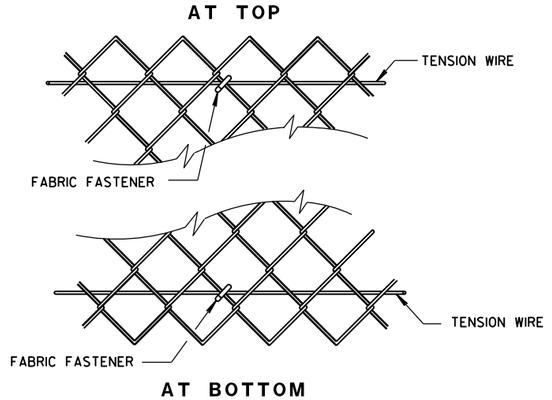
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEB. 2015 DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

531

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S.D.D. 15 B 3-15b

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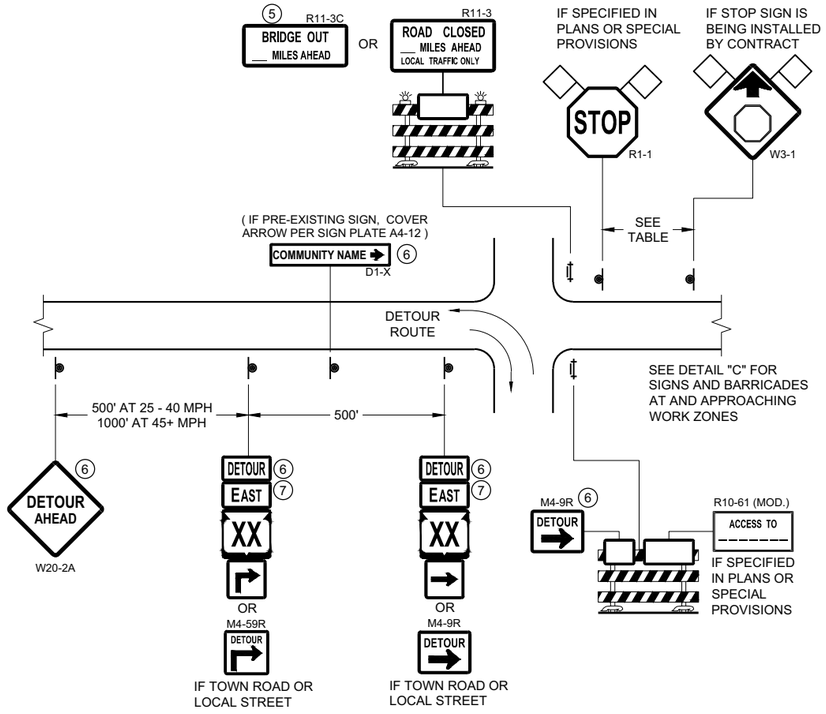
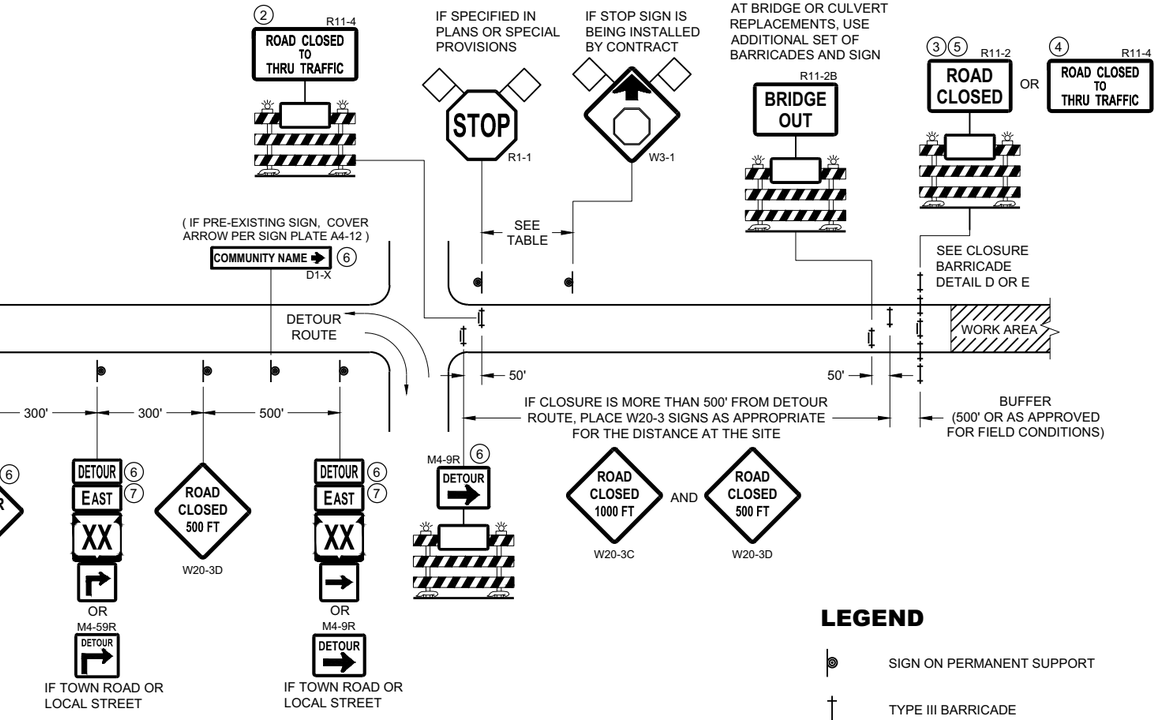
S.D.D. 15 B 3-15b



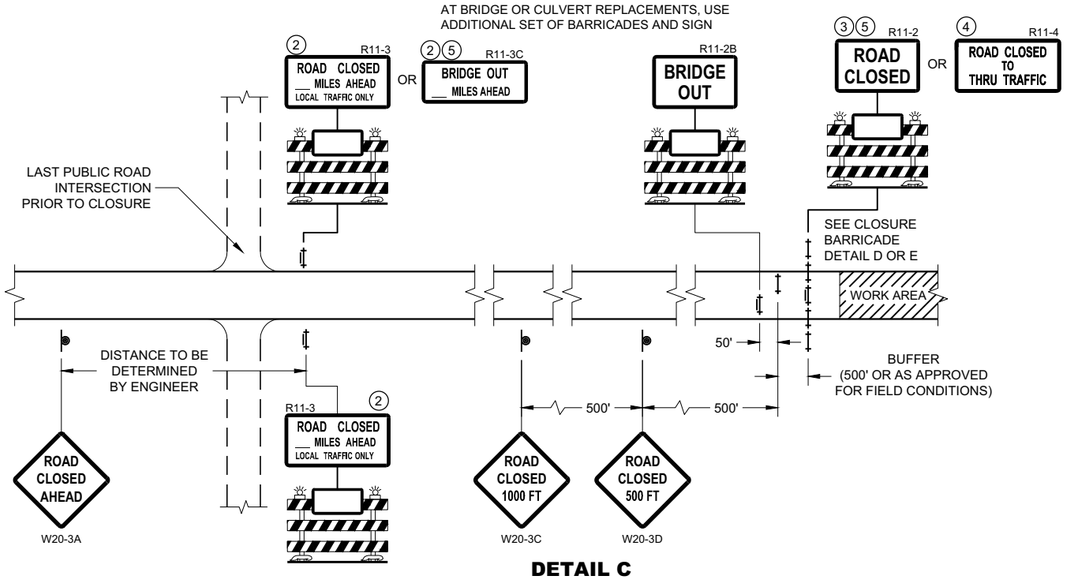
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

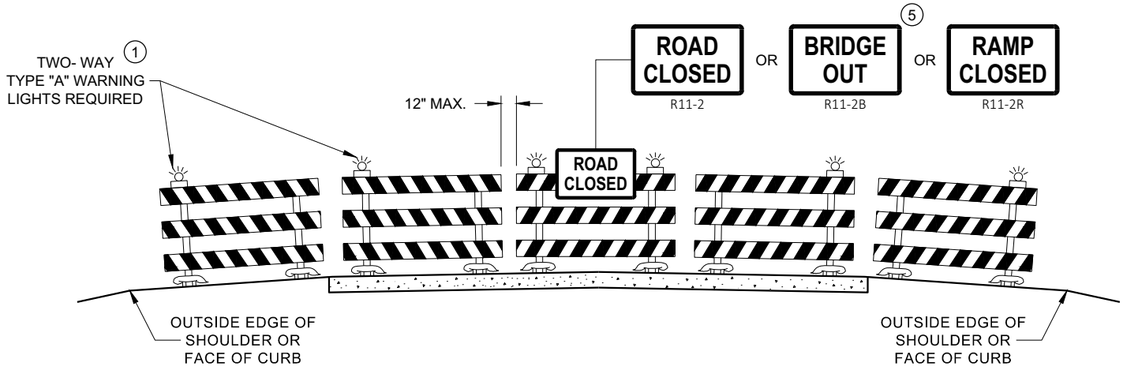
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

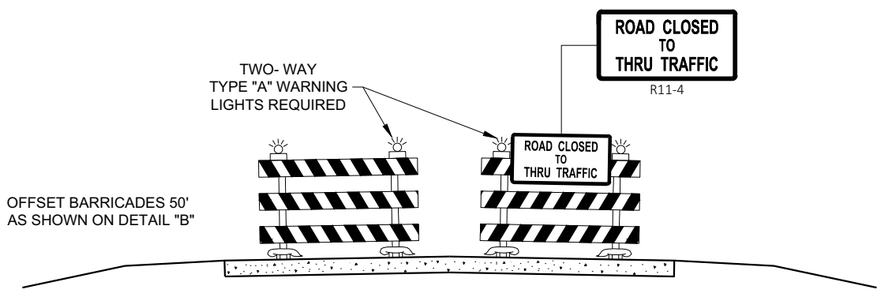
6

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

6

SDD 15C02 - 08b

6

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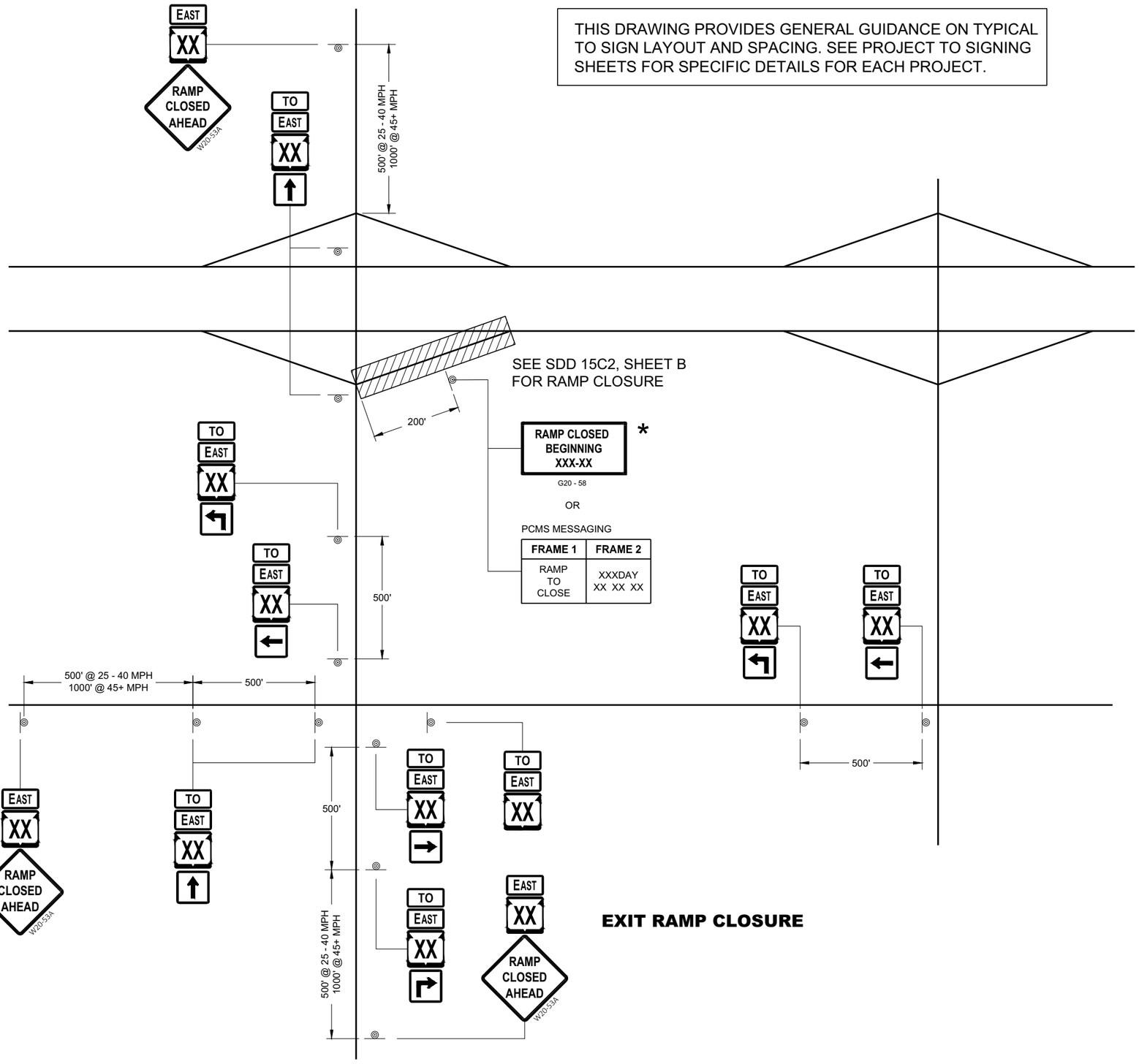

EXIT RAMP CLOSURE

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
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/S/ Andrew Heidtke — WORK ZONE ENGINEER

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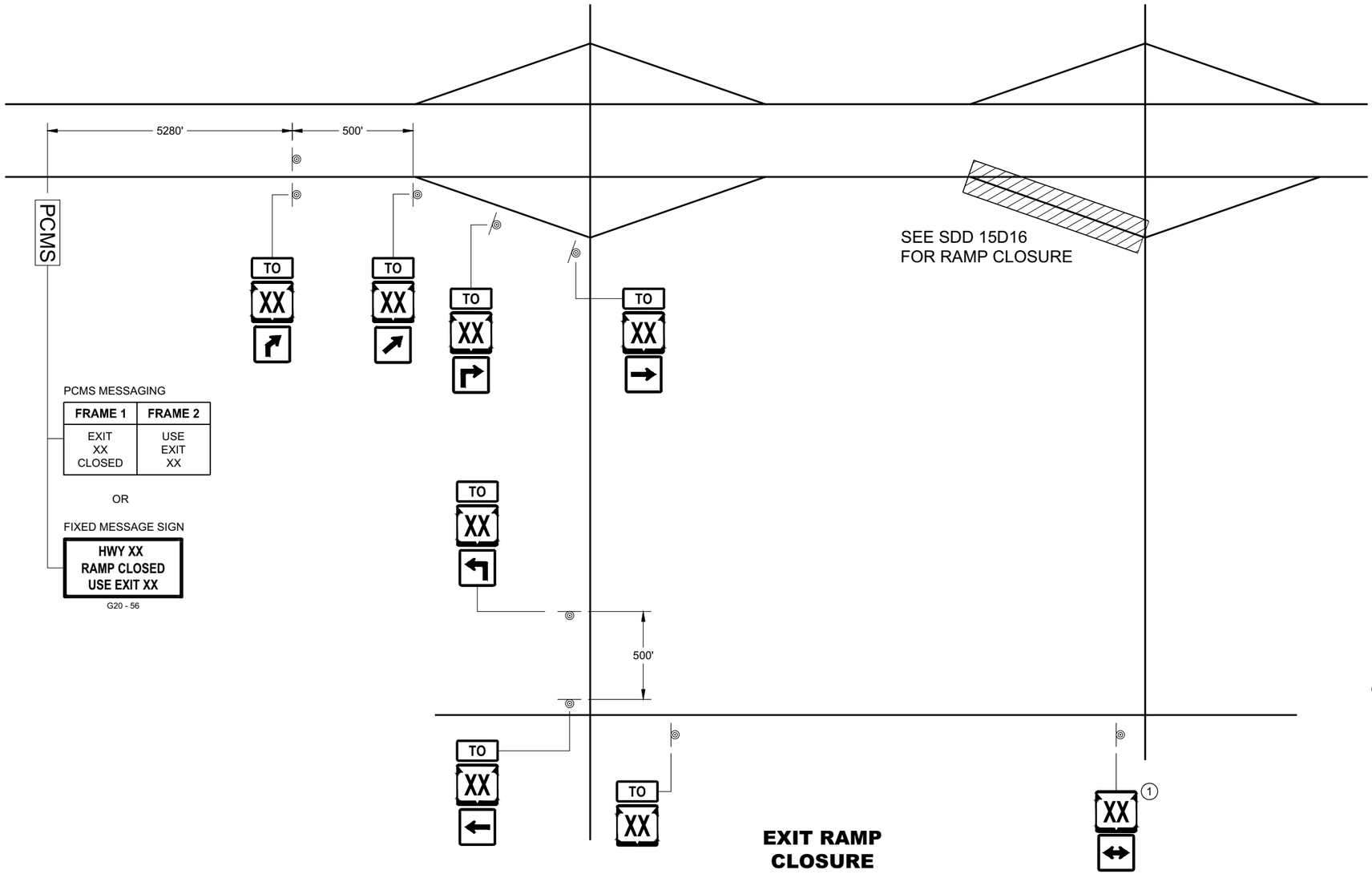
THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL "TO" MO-4 SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.



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 ENGINEER
FHWA

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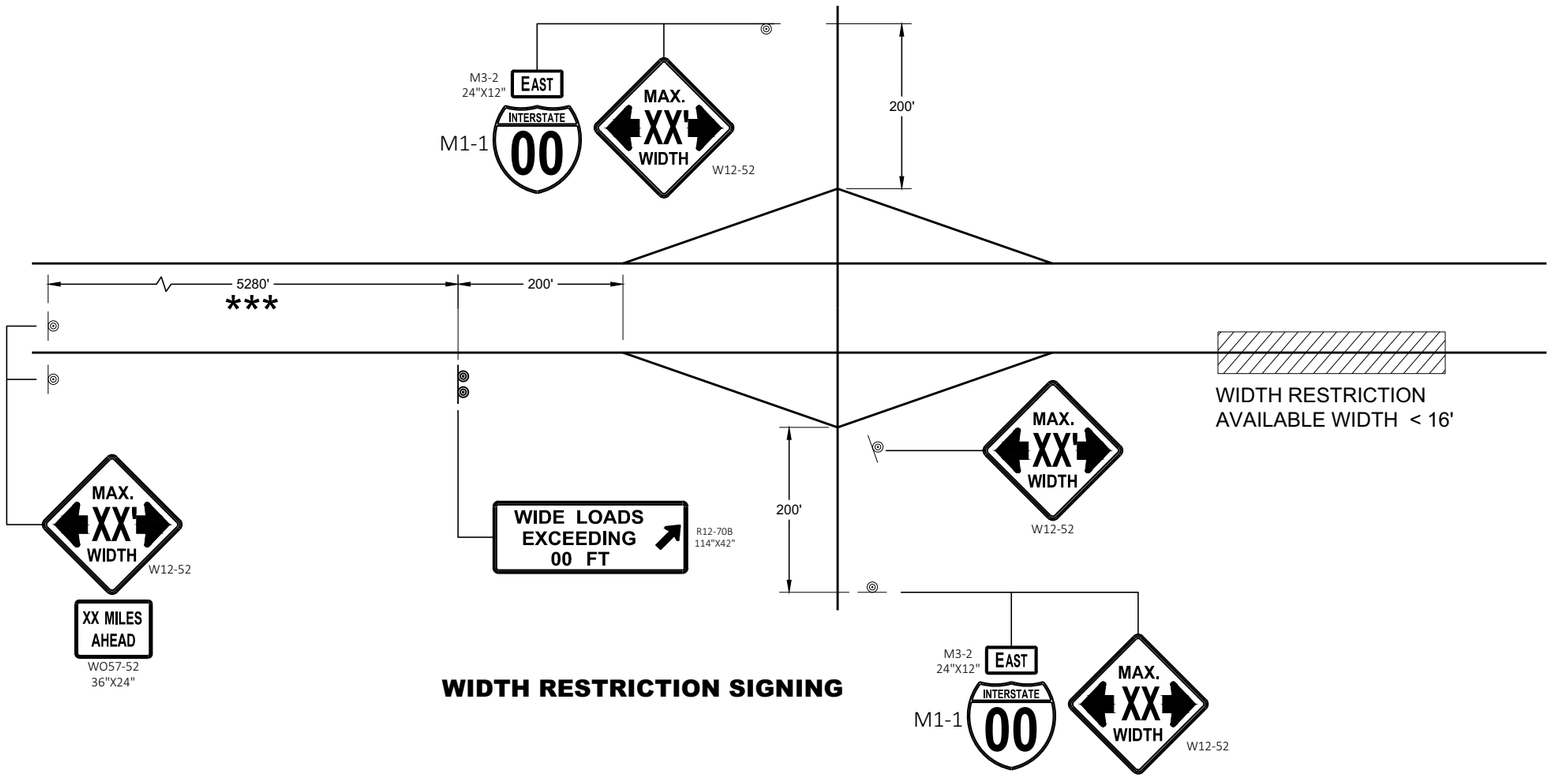


WIDTH RESTRICTION SIGNING

LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS 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 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.

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

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

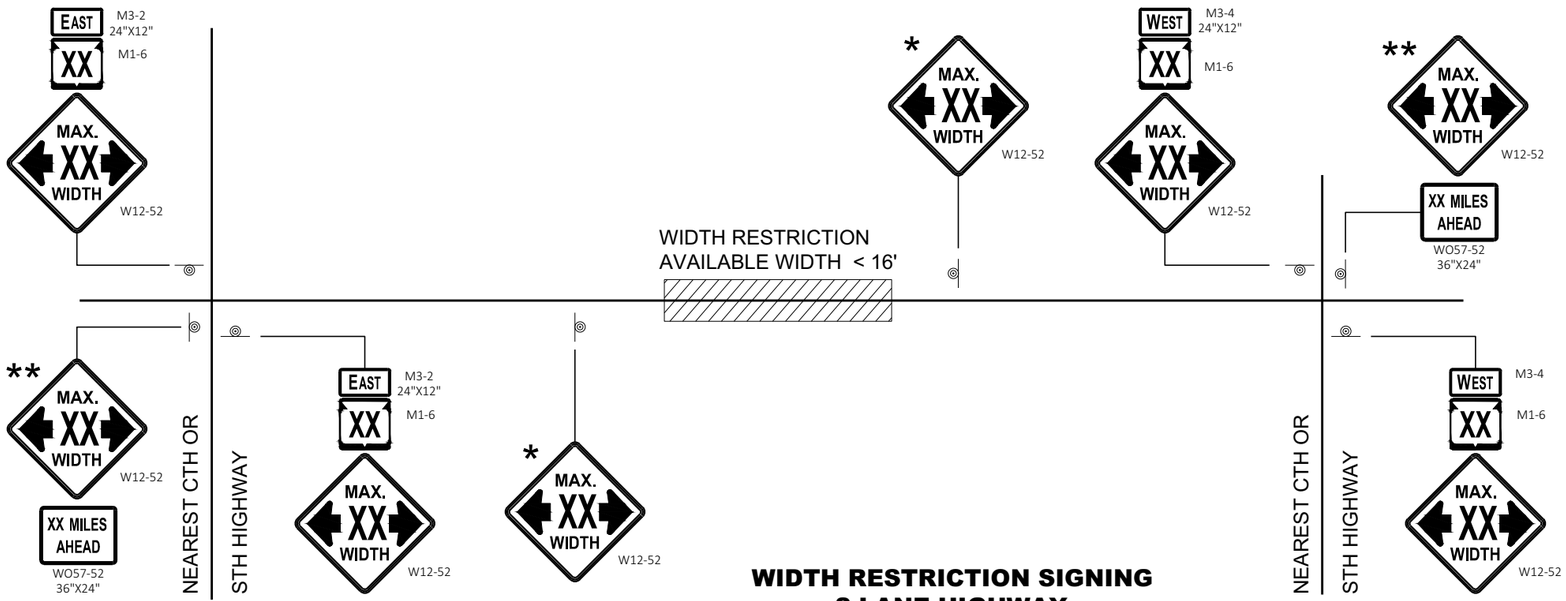
WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

* PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.

WIDTH ON SIGN TO BE APPROX. 1 - FOOT LESS THAN AVAILABLE WIDTH



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE 536

FHWA

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SDD 15C02 - 08f

GENERAL NOTES

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

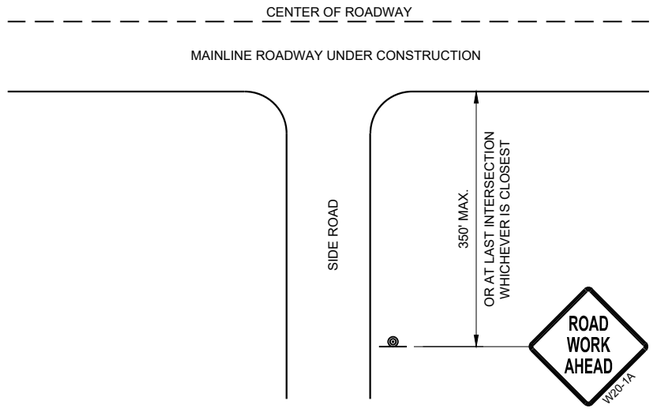
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

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

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

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



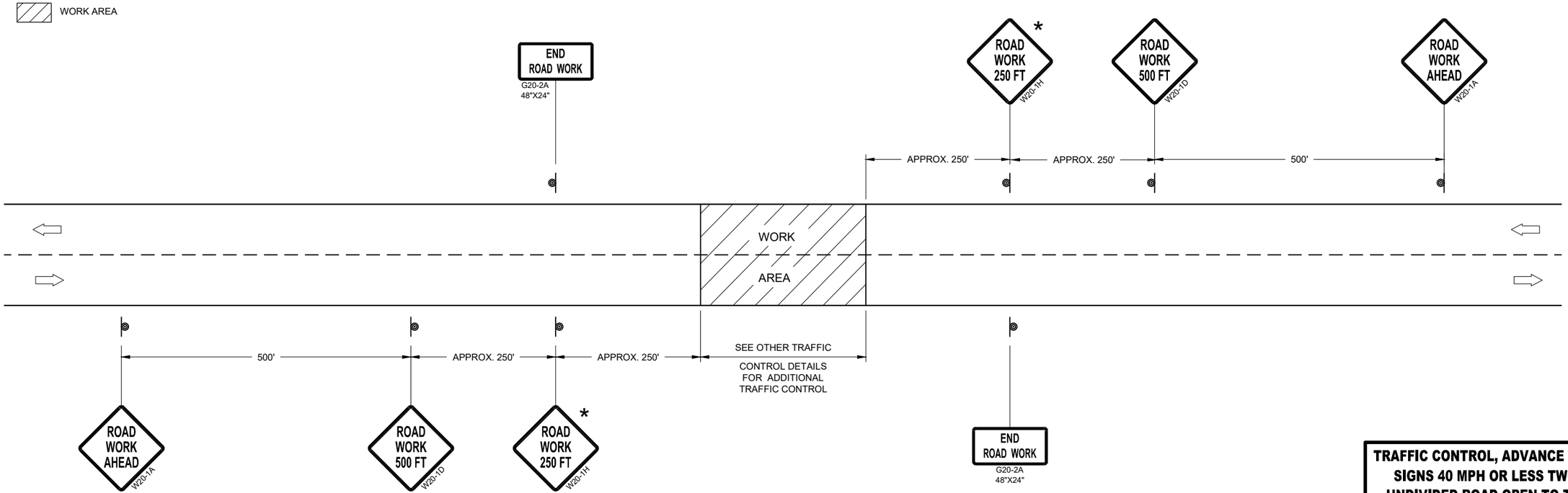
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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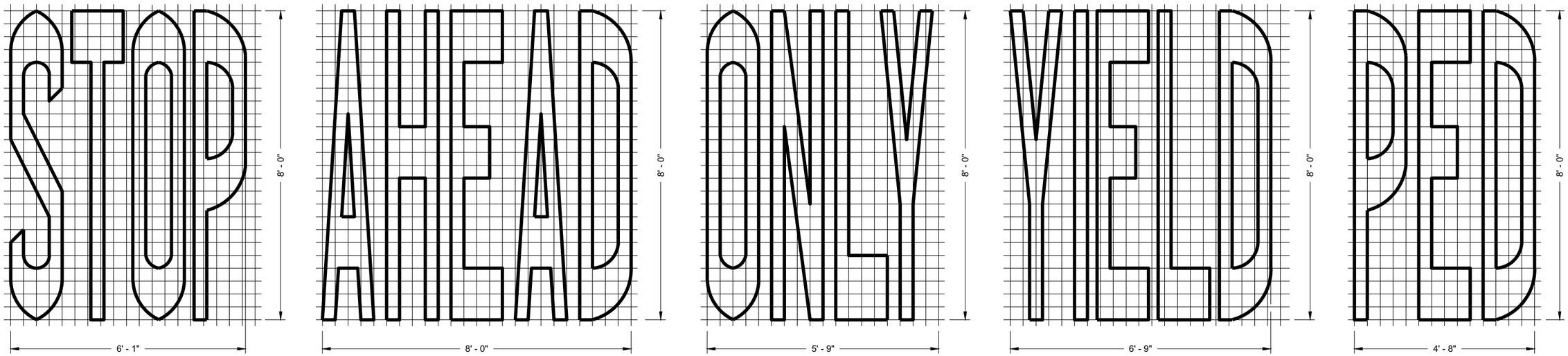
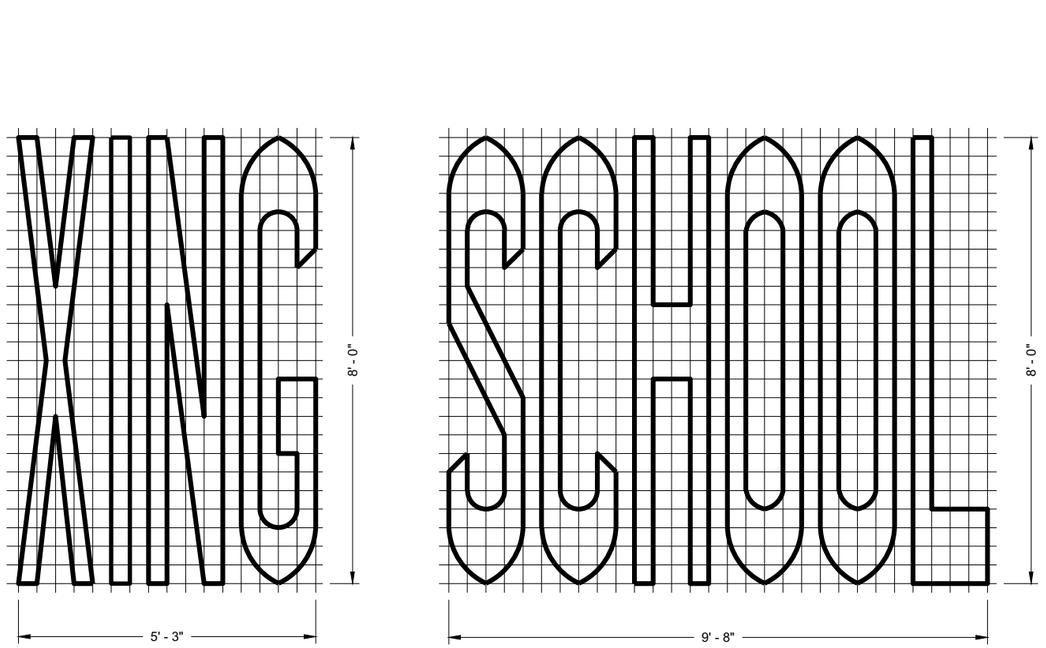
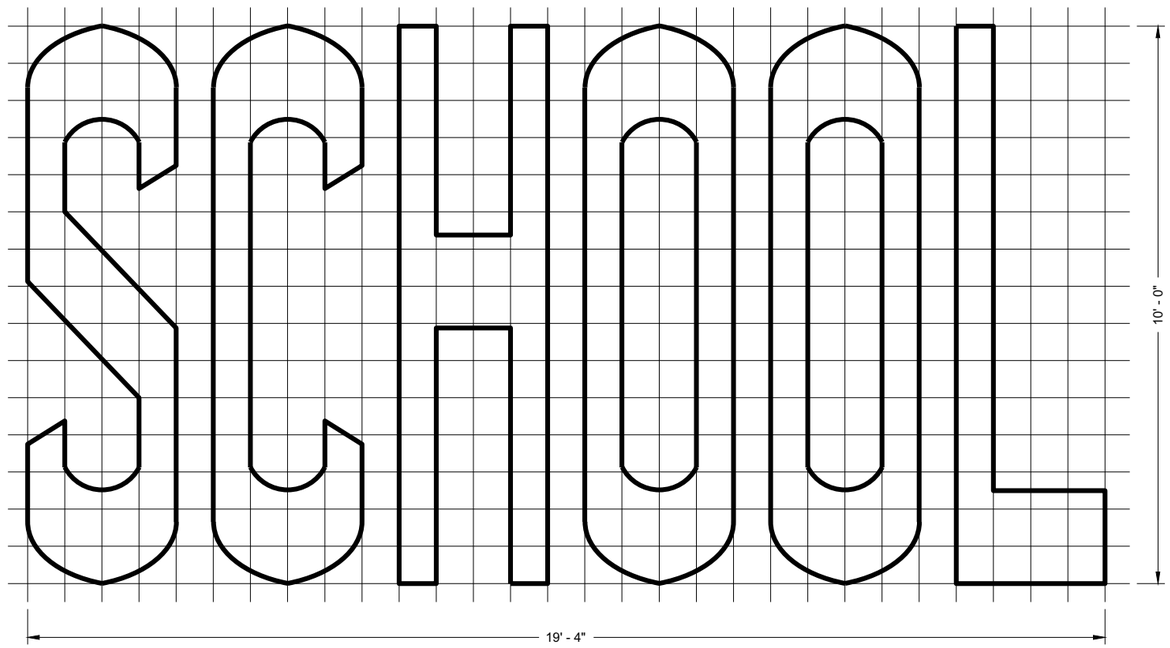
SDD 15C05 - 05





SINGLE LANE



TWO - LANE

GENERAL NOTES

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

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

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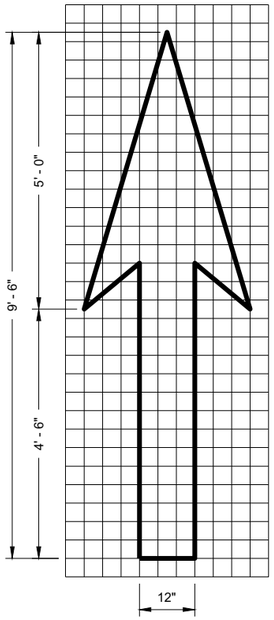
SDD 15C07 - 15b

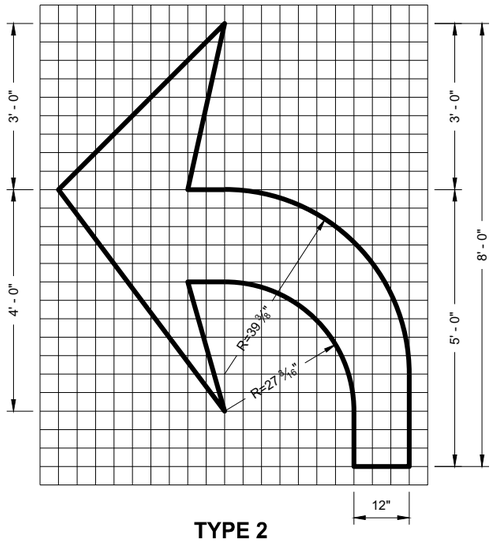
SDD 15C07 - 15b

GENERAL NOTES

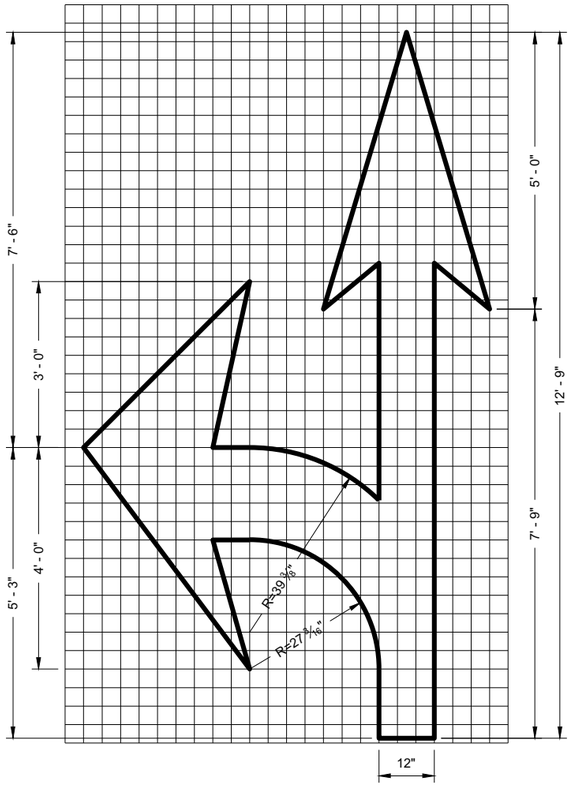
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



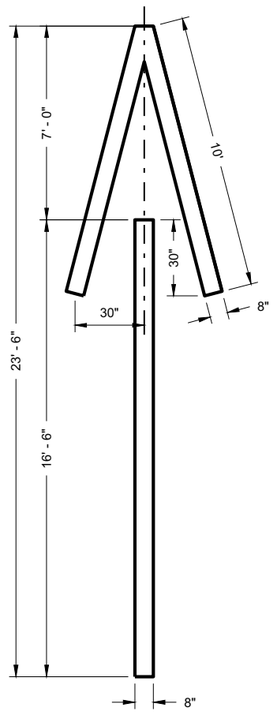
TYPE 1



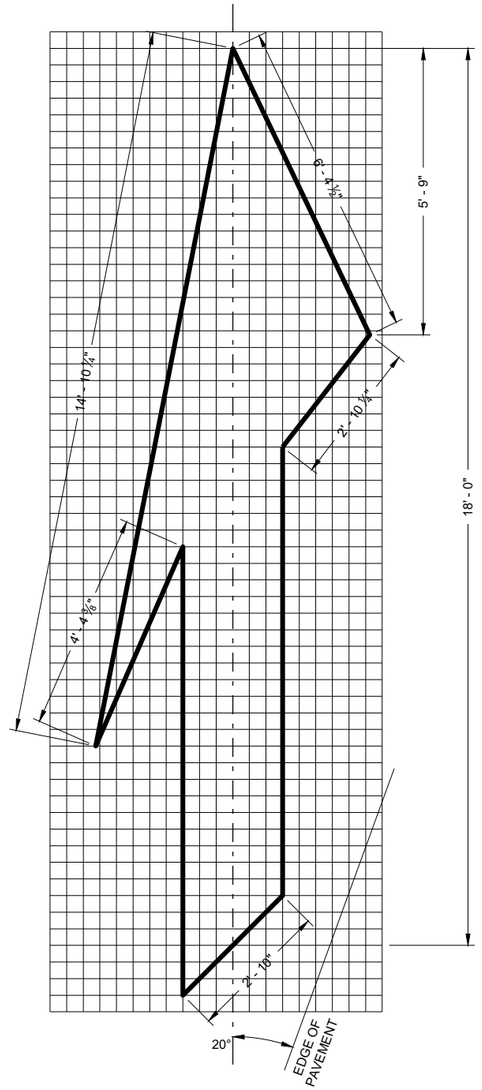
TYPE 2



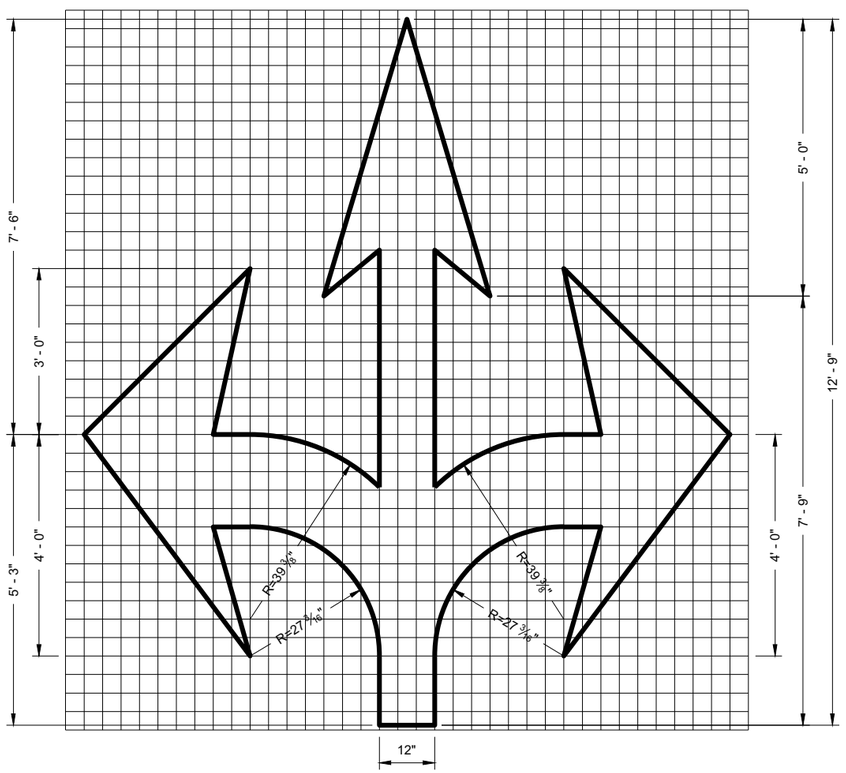
TYPE 3



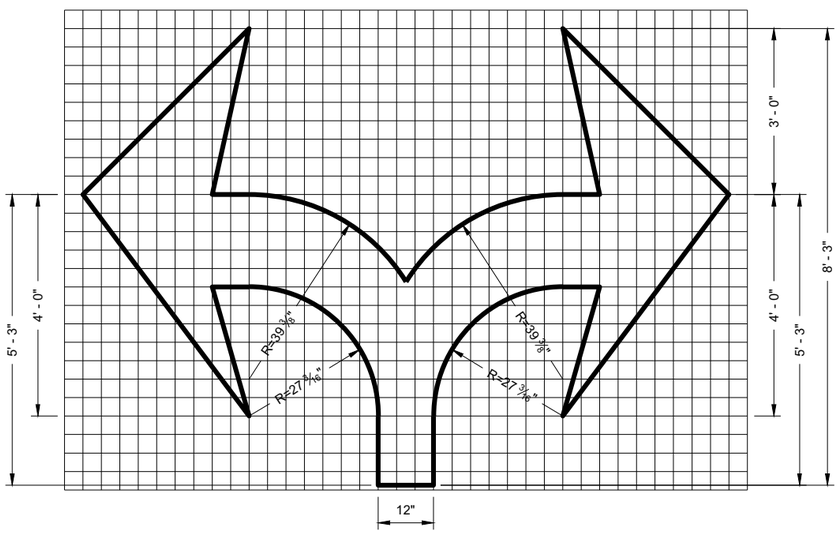
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

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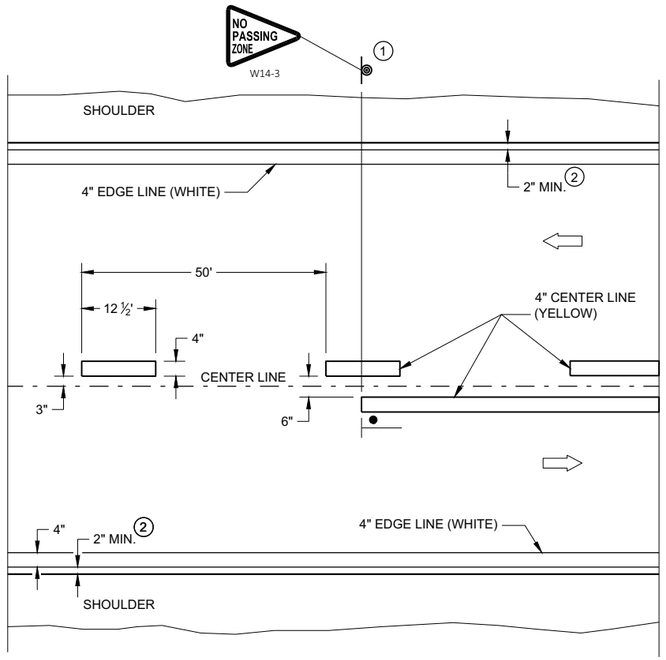
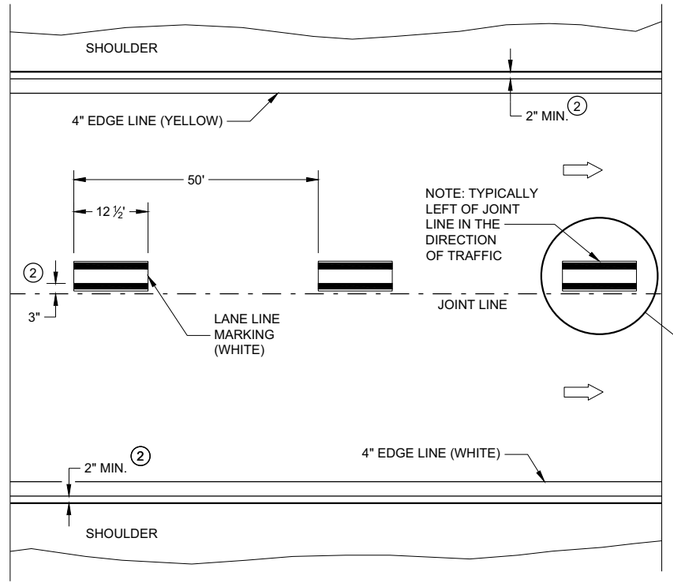
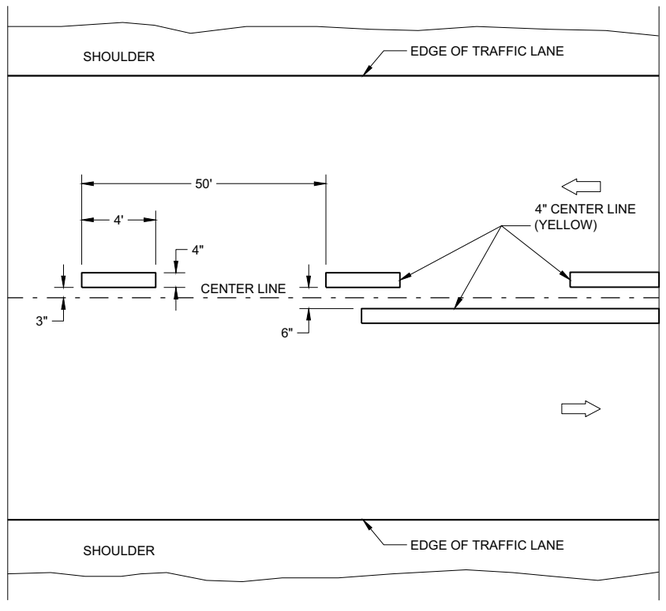


TWO WAY TRAFFIC

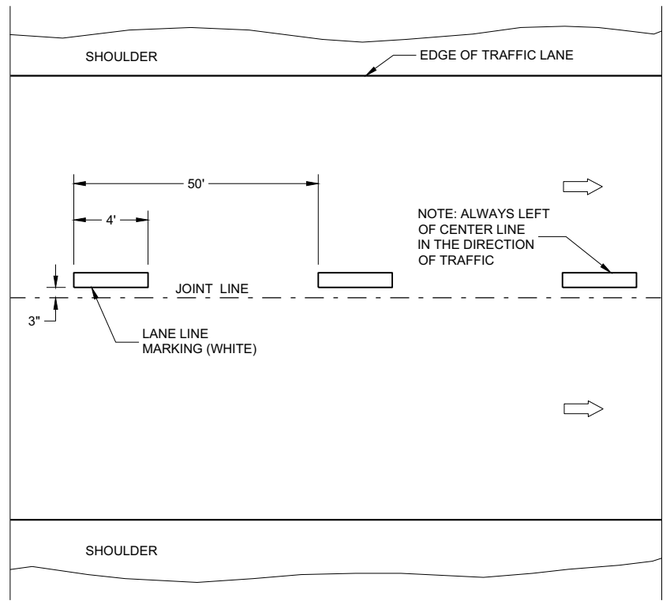


ONE WAY TRAFFIC

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.

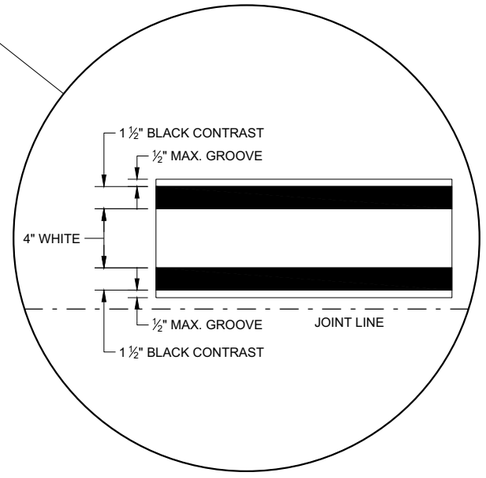
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

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

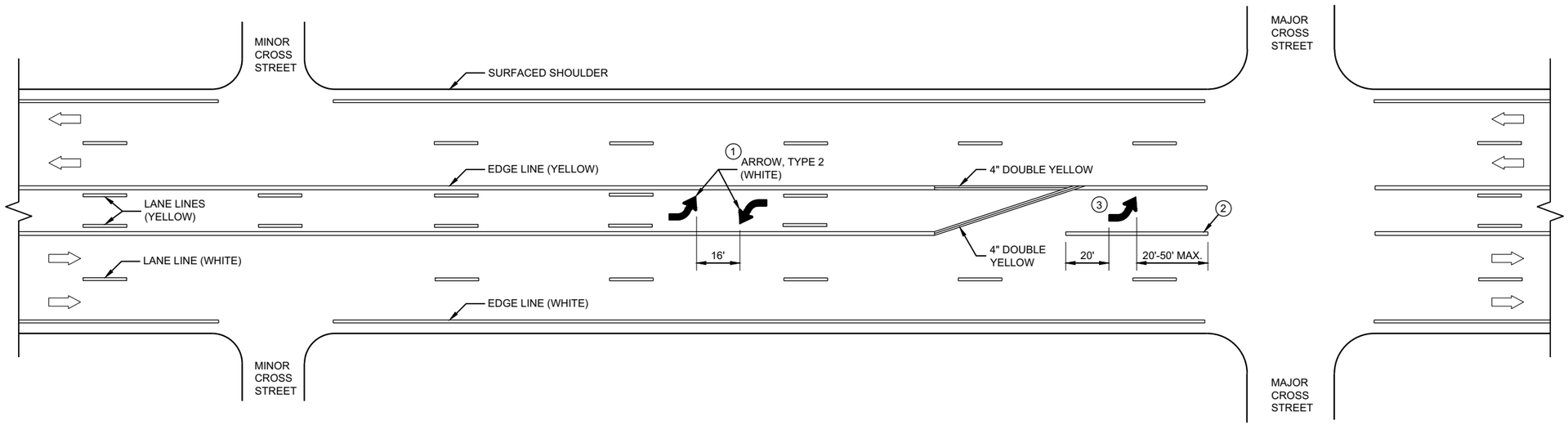
SDD 15C08 - 20a

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

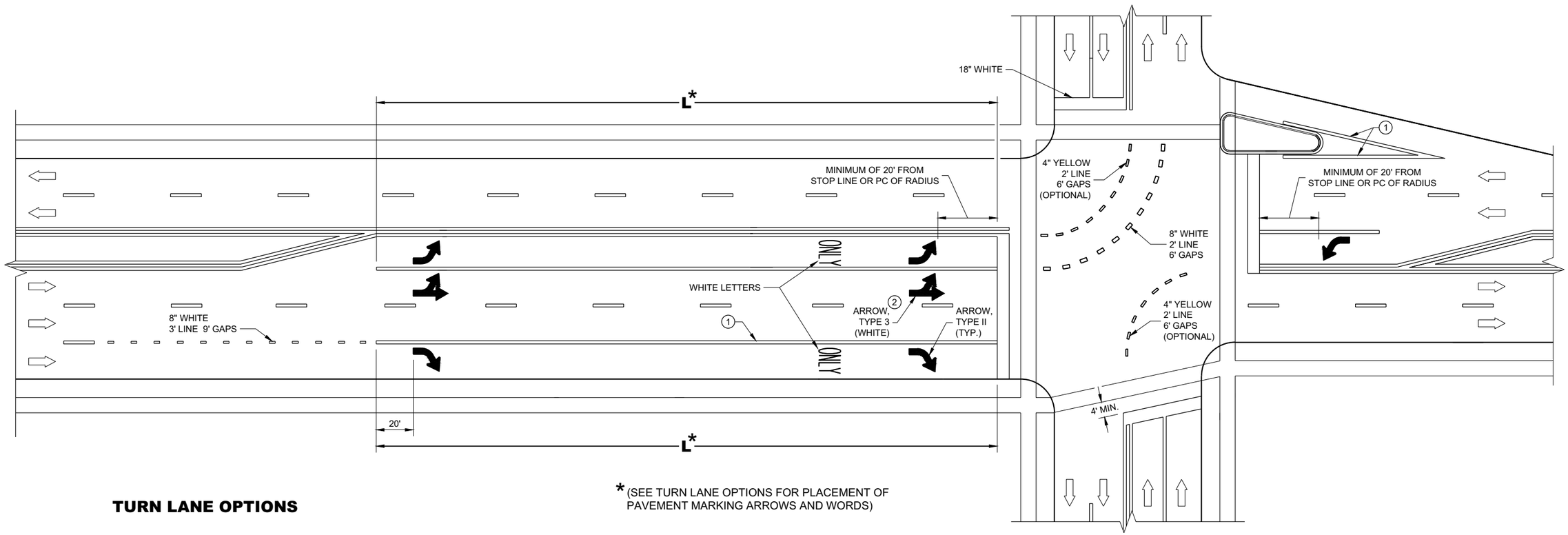
SDD 15C08 - 20b

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

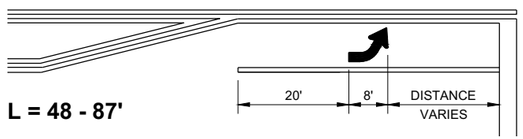
SDD 15C08 - 20b



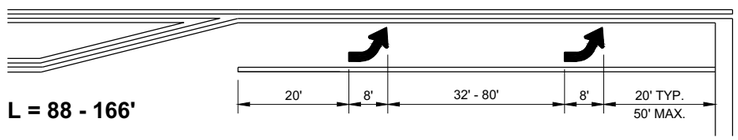
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

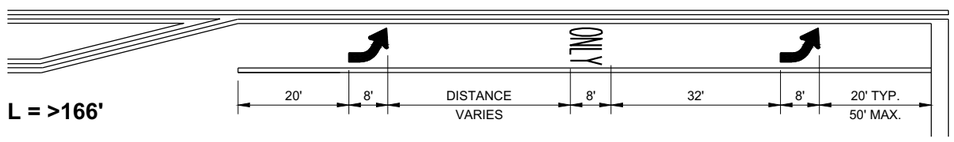
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



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

SDD 15C08 - 20c

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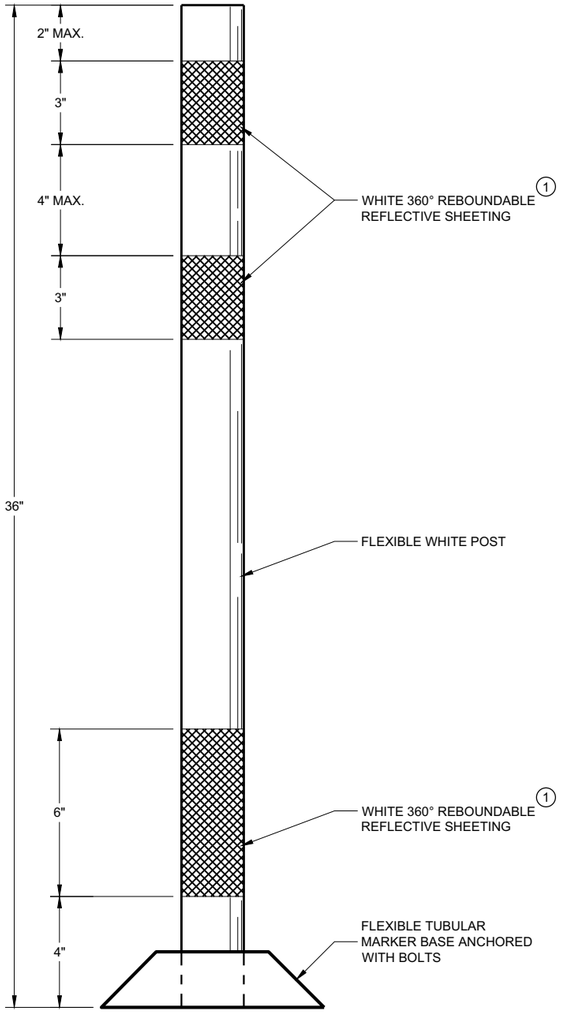
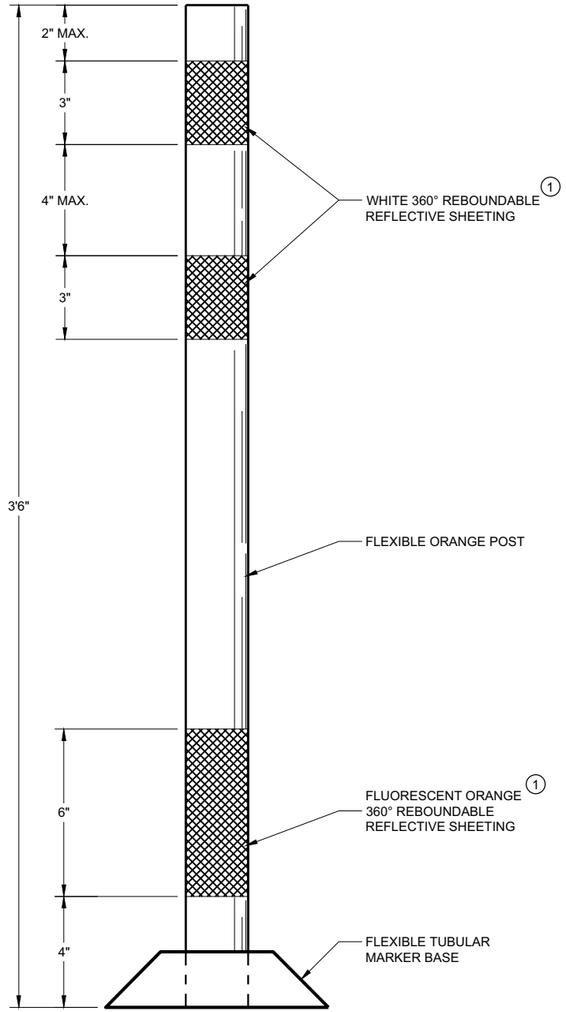
SDD 15C08 - 20c



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 - 08a

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

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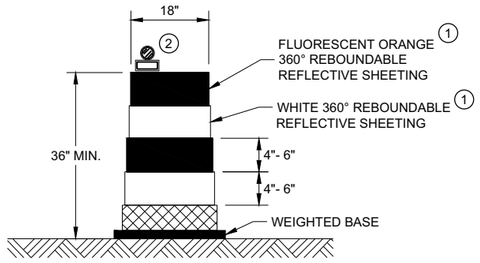
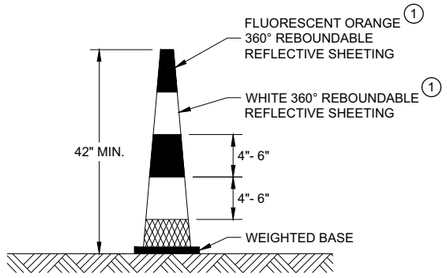
SDD 15C11 - 08a

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.

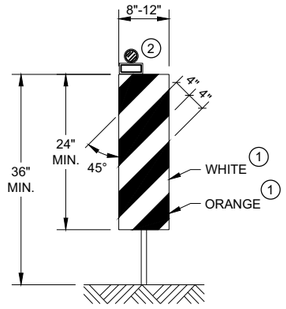


DRUM



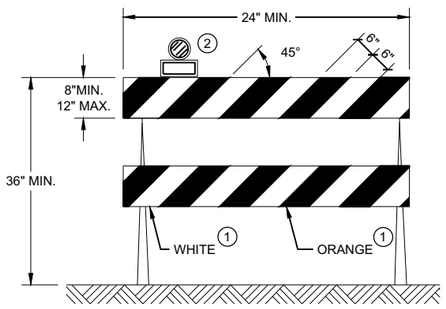
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



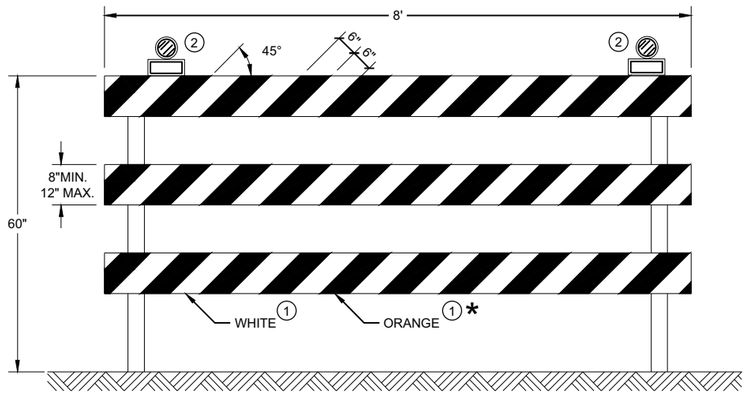
VERTICAL PANEL

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

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SDD 15C11 - 08b

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LEGEND

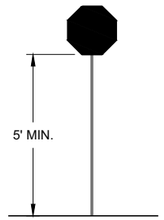
SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



STOP/SLOW PADDLE ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

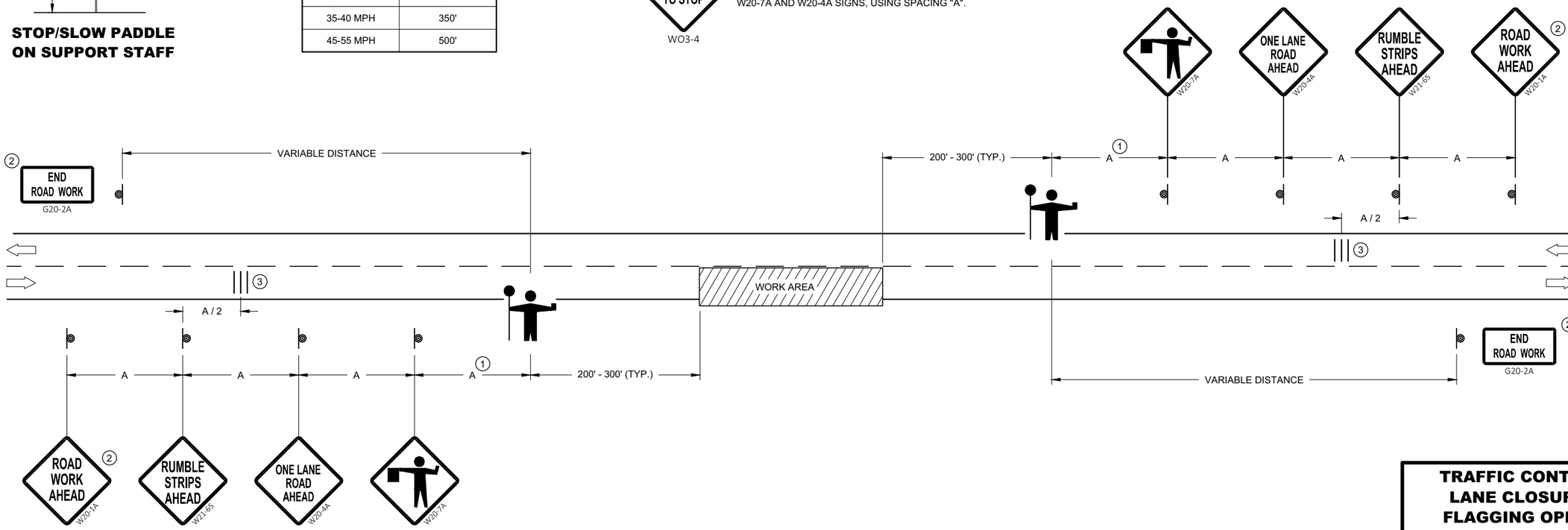
DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

545

FHWA

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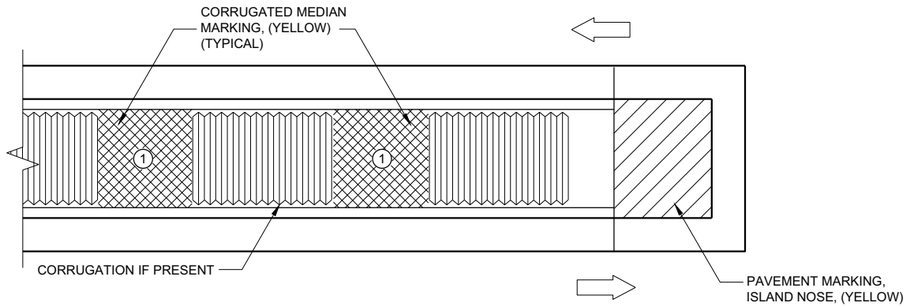
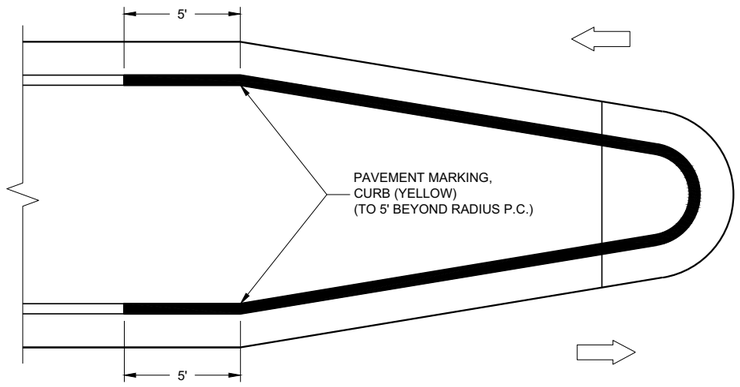
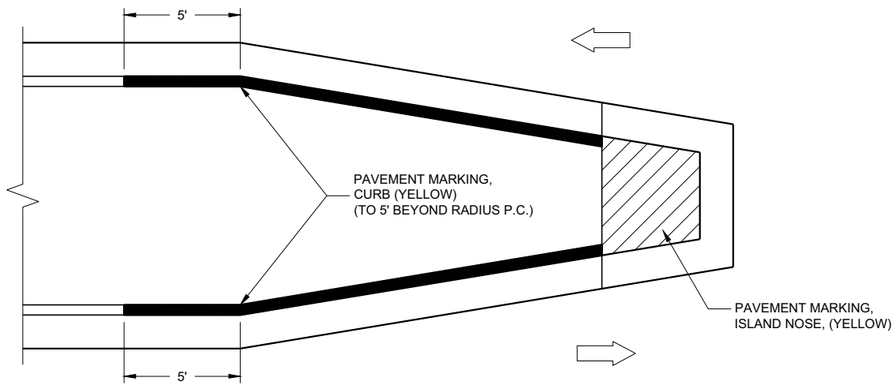
SDD 15C12 - 07



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.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAF
ENGINEER

FHWA

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SDD 15C18 - 05b

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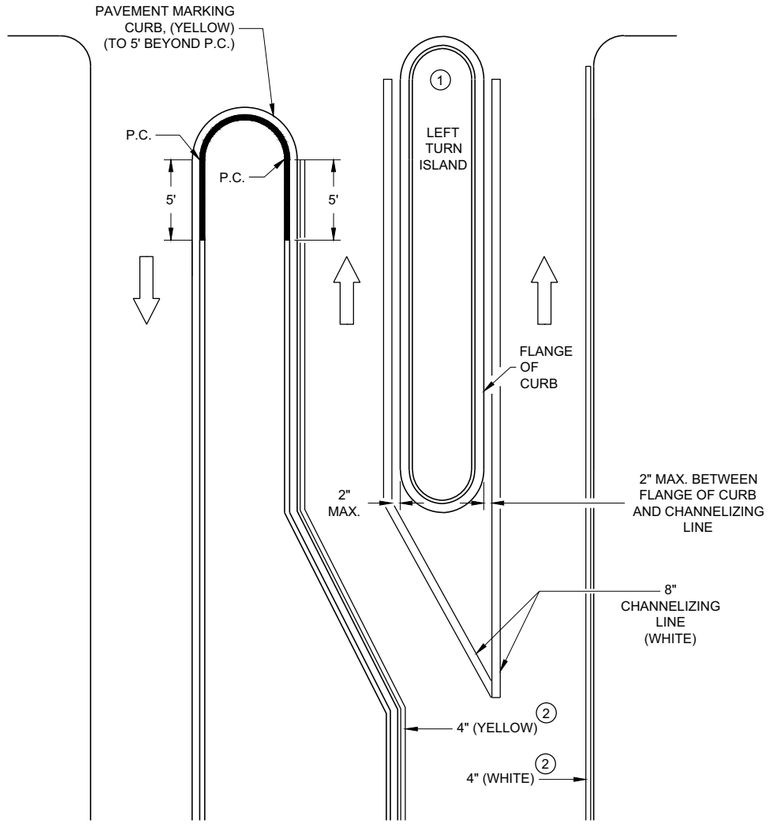
SDD15C18 - 05b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



LEFT TURN & MEDIAN ISLAND

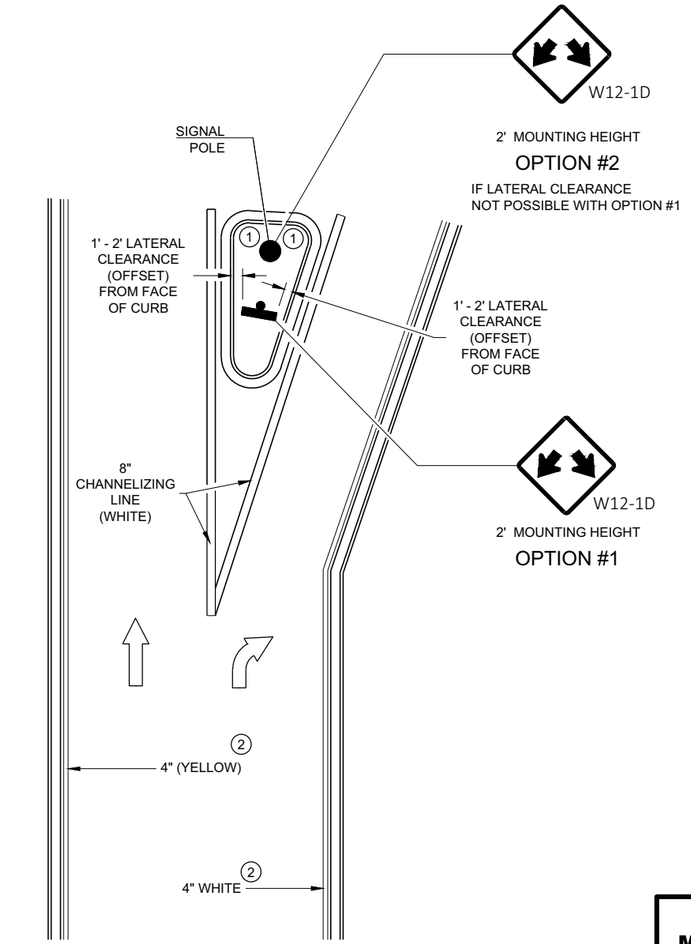
GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

1. MARK CURB NOSES YELLOW.
2. MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

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SDD 15C18 - 05c

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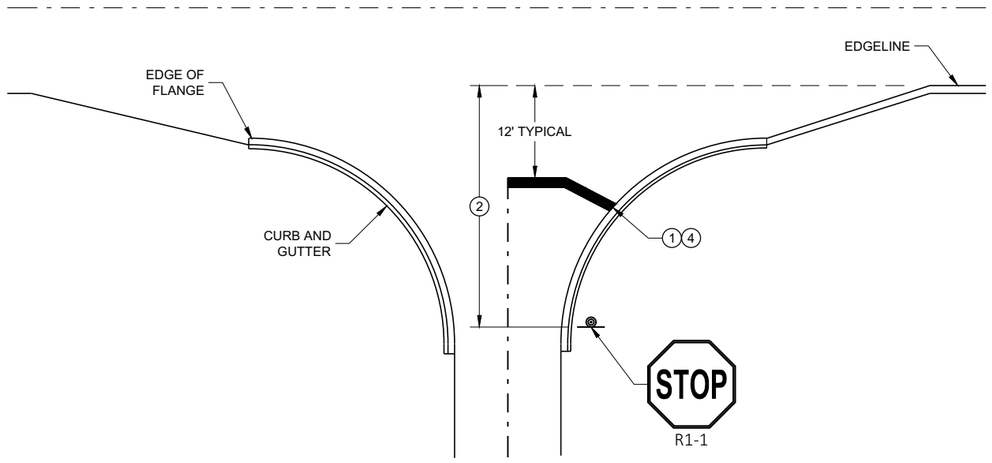
SDD 15C18 - 05c

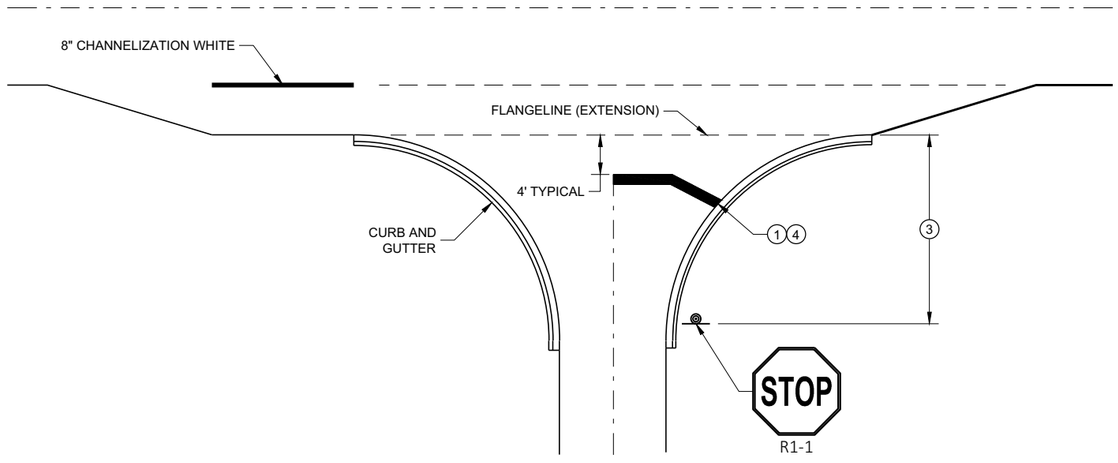
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

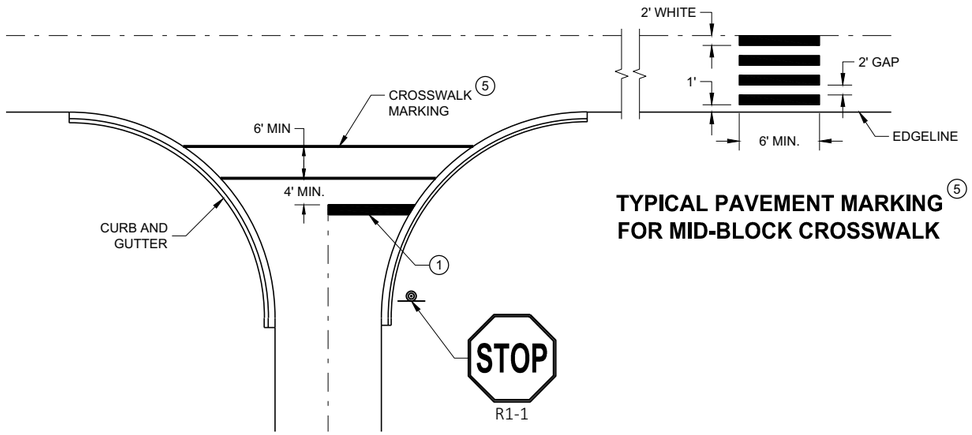
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE 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

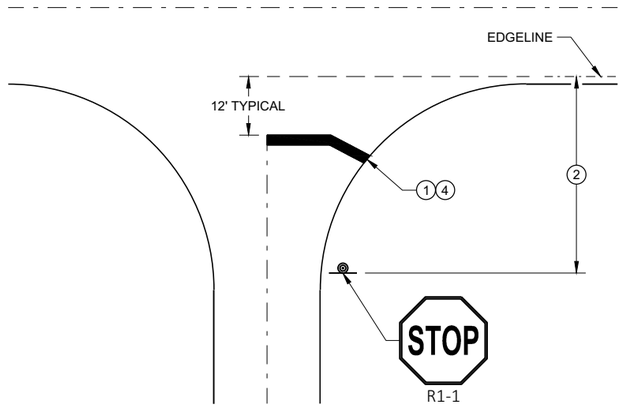


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK (5)

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

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SDD 15C33 - 04

GENERAL NOTES

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

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.

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.

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.

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

(2) IF NEEDED. USE ONLY IF DESIGN SPEED IS 10 MPH LESS THAN POSTED SPEED.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- REMOVING PAVEMENT MARKING
- CONCRETE BARRIER TEMPORARY PRECAST
- DIRECTION OF TRAFFIC
- WORK AREA

OR

R2-1
48"X60"

OR

R2-1
48"X60"

IF THE REGULATORY SPEED HAS BEEN REDUCED, 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.

LOCATED 400 FEET BEYOND THE W20- 5G SIGN.

SEE SDD 15D12b FOR SIGN PLACEMENT.

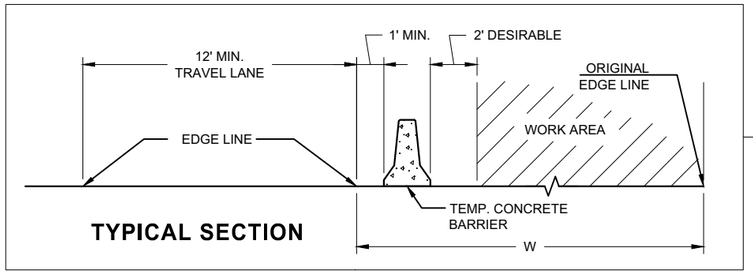
(BLACK AND WHITE)

LOCATED 700 FEET BEYOND W03-5 SIGN

1000'

* INCLUDE RESUME SPEED LIMIT SIGN A MINIMUM OF 200 FEET (500 FEET DESIRABLE) AFTER END ROAD WORK SIGNS.

L, TAPER LENGTH (MPH)												
SPEED (MPH)	W, LATERAL OFFSET (FT)											
	1	2	3	4	5	6	7	8	9	10	11	12
45	45	90	135	180	225	270	315	360	405	450	495	540
50	50	100	150	200	250	300	350	400	450	500	550	600
55	55	110	165	220	275	330	385	440	495	550	605	660
60	60	120	180	240	300	360	420	480	540	600	660	720
65	65	130	195	260	325	390	455	520	585	650	715	780
70	70	140	210	280	350	420	490	560	630	700	770	840



TYPICAL SECTION

TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINE

FHWA

SDD 15D03-05

SDD 15D03-05

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.

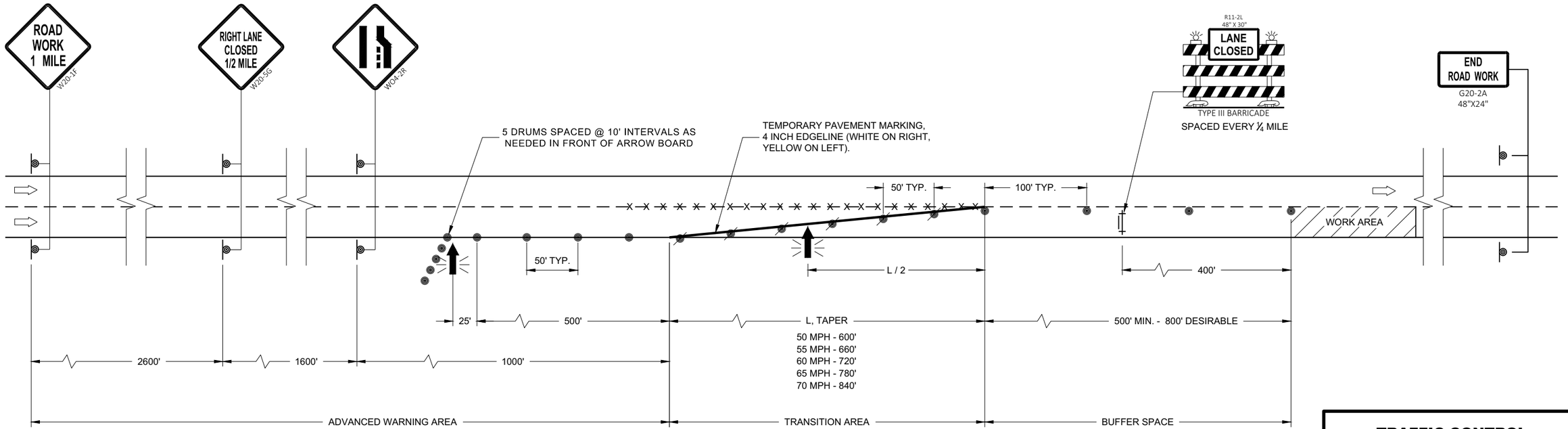
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15D12 - 09a

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SDD 15D12 - 09a

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.

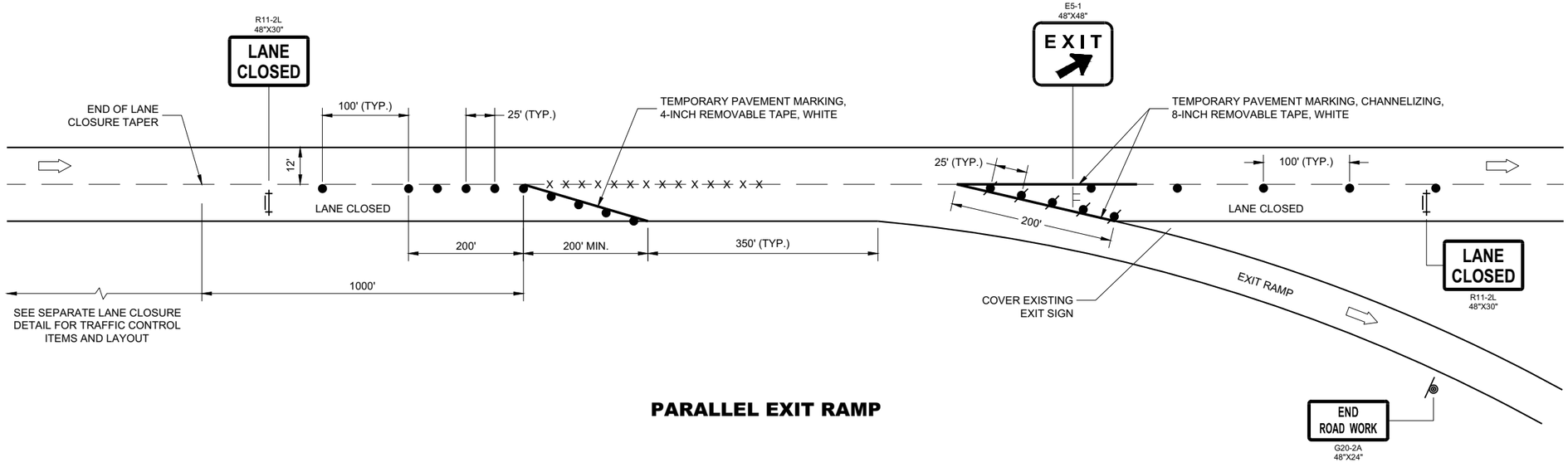
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR 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.



PARALLEL EXIT RAMP

TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6

SDD 15D15 - 05e

6

SDD15D15 - 05e

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

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

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.

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.

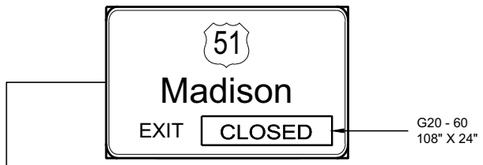
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

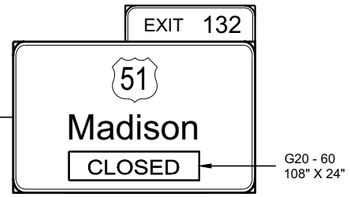
WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.

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

** PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



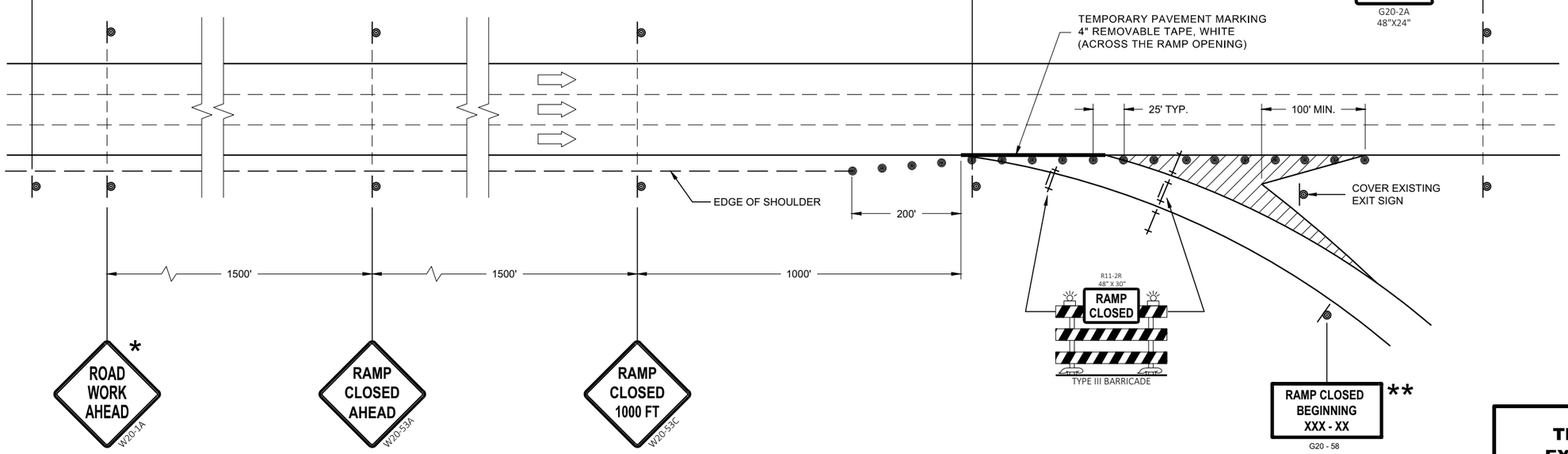
OR



PLACE SIGN G20 - 60 OVER MILEAGE ON EXISTING E1 - 1A SIGN

COVER ARROW ON EXISTING E4 - 1 SIGN (COVERING SIGNS TYPE I)

G20 - 61
120 ' X 30"



OR

PCMS MESSAGING

FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX

TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 15D16 - 04

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)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

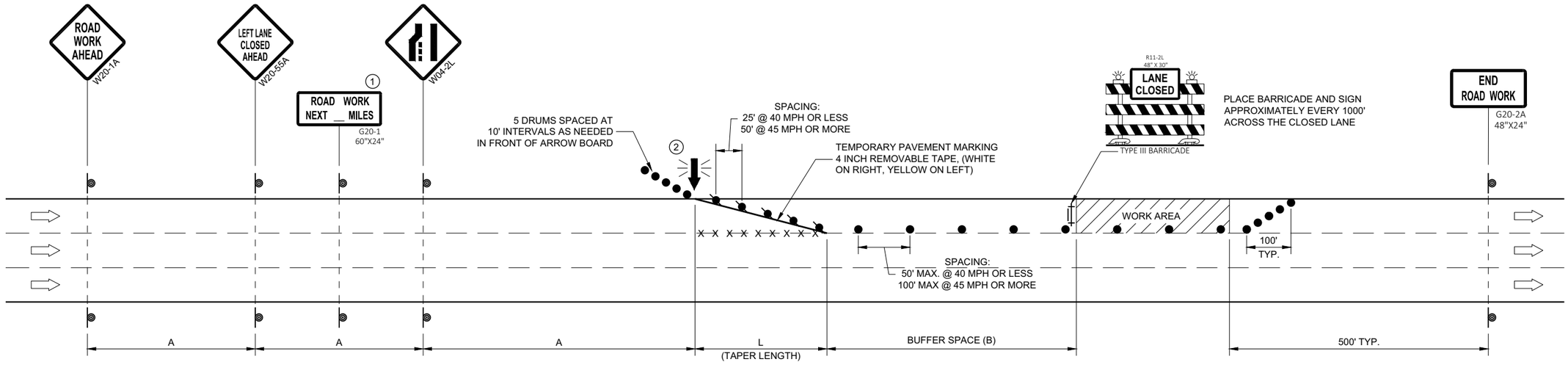
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

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

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



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

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

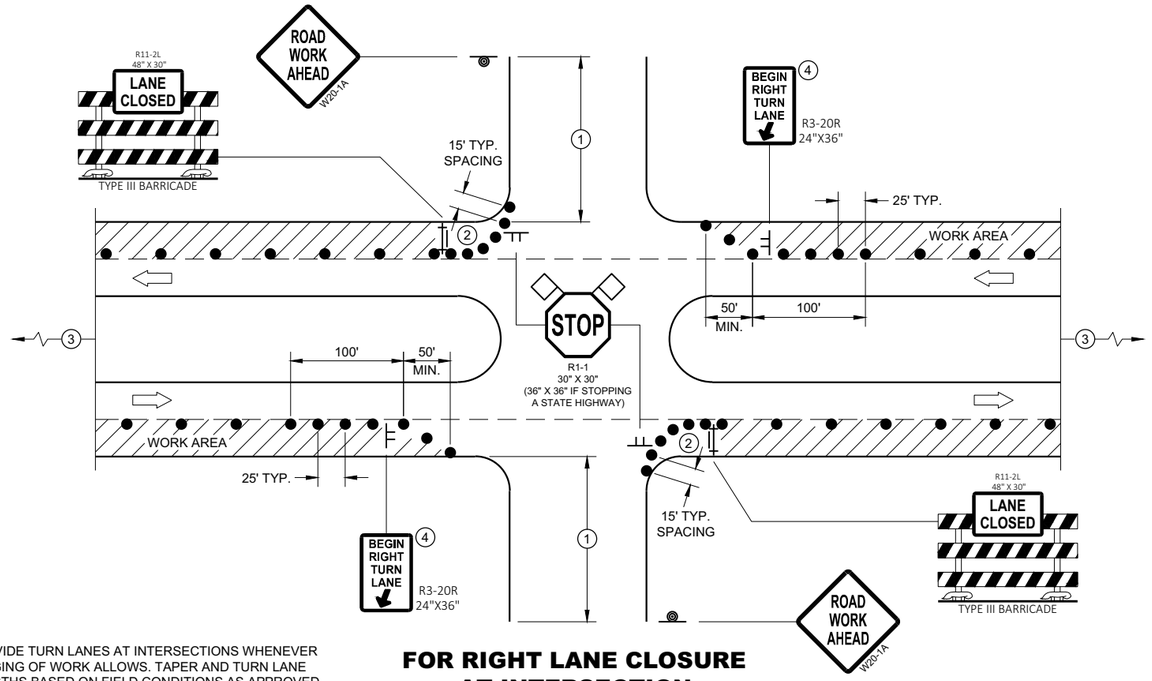
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE
/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

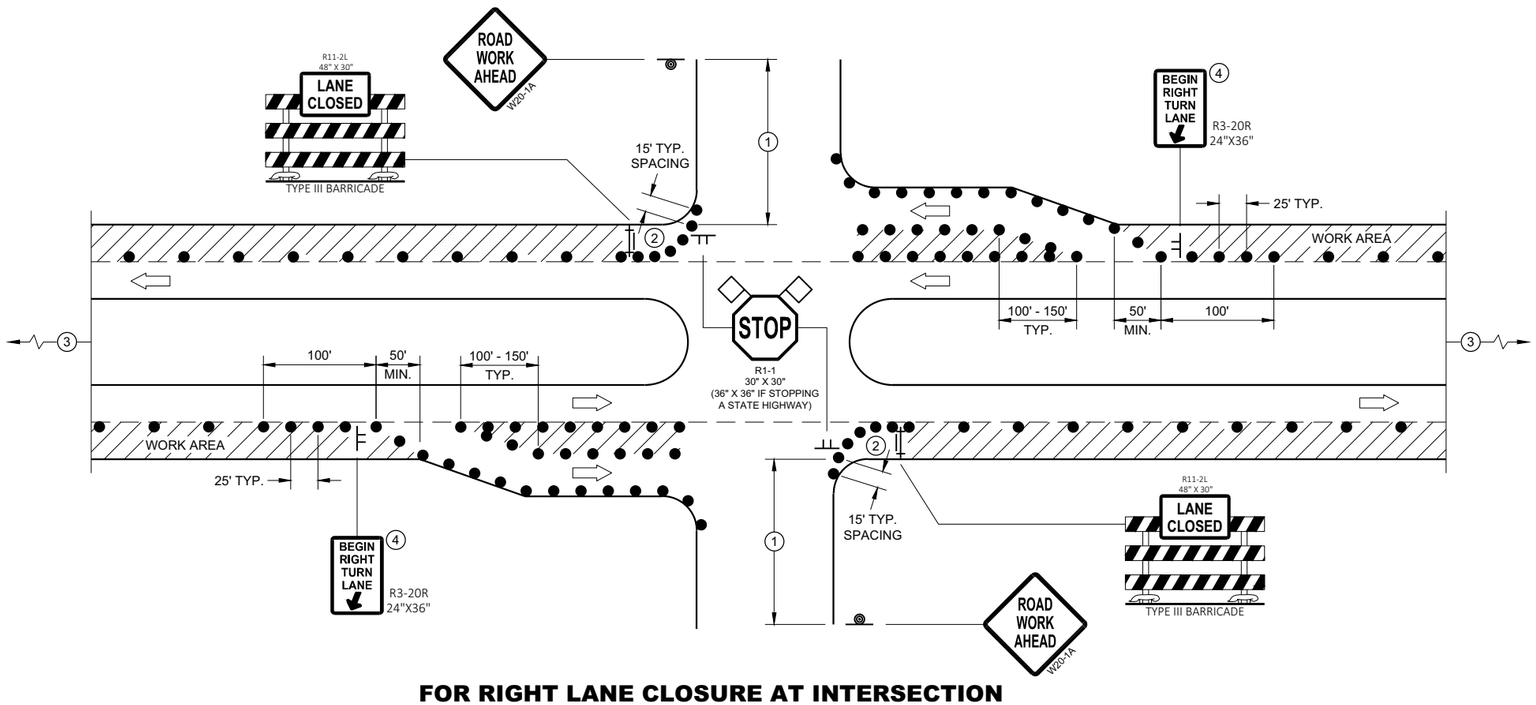
6

SDD15D20 - 05a



FOR RIGHT LANE CLOSURE AT INTERSECTION

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

GENERAL NOTES

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

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

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

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

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

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

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

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

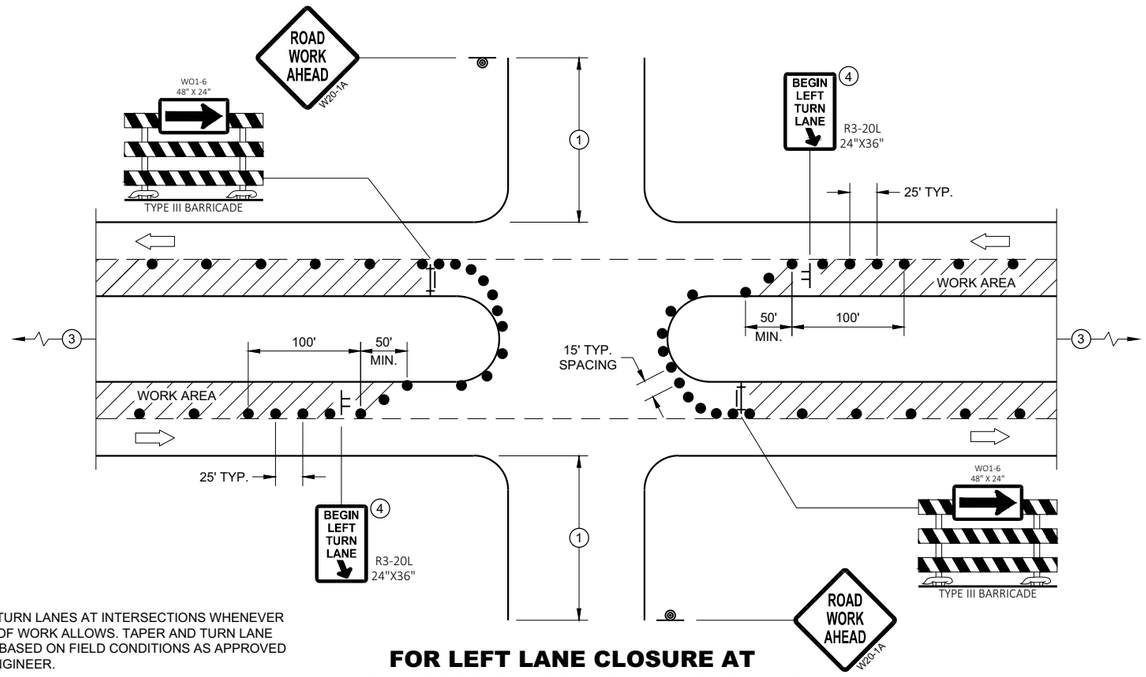
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D21 - 07a

6

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.

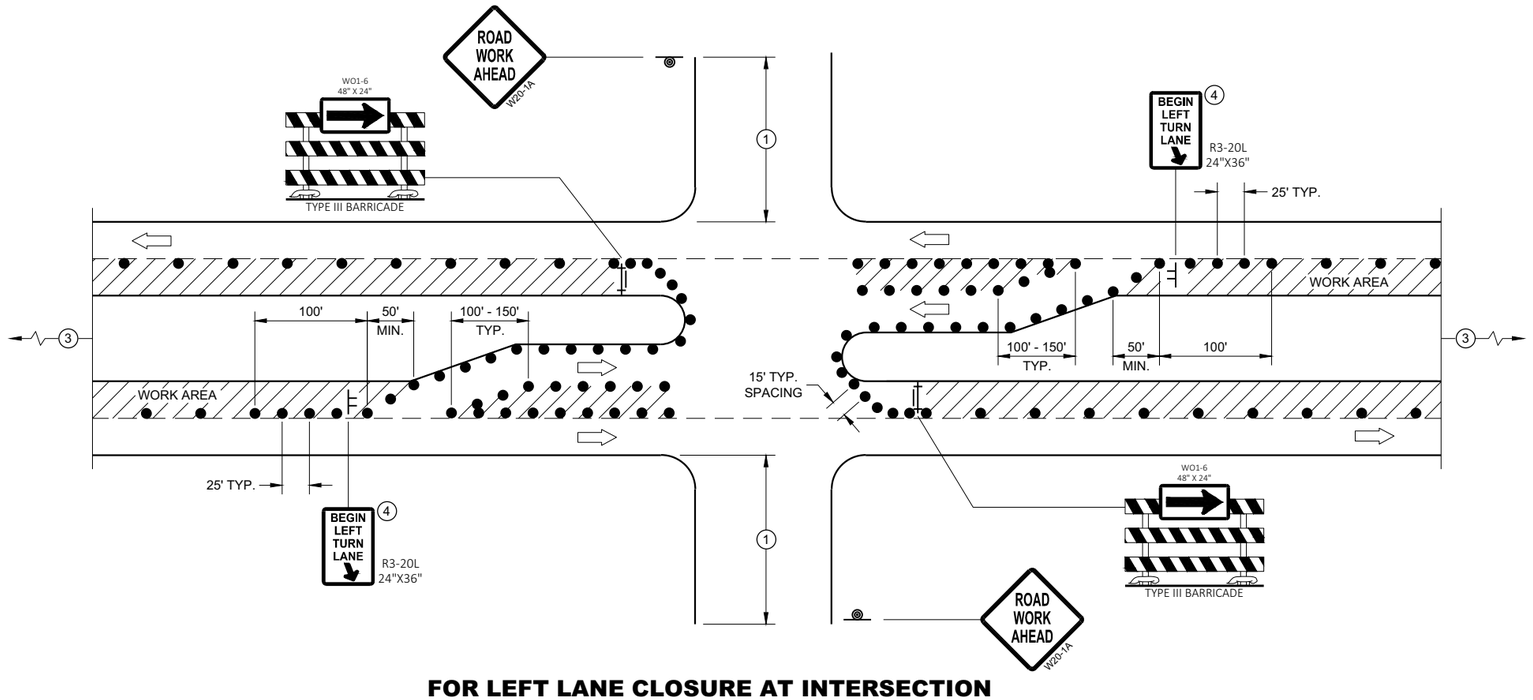
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(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

- 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.

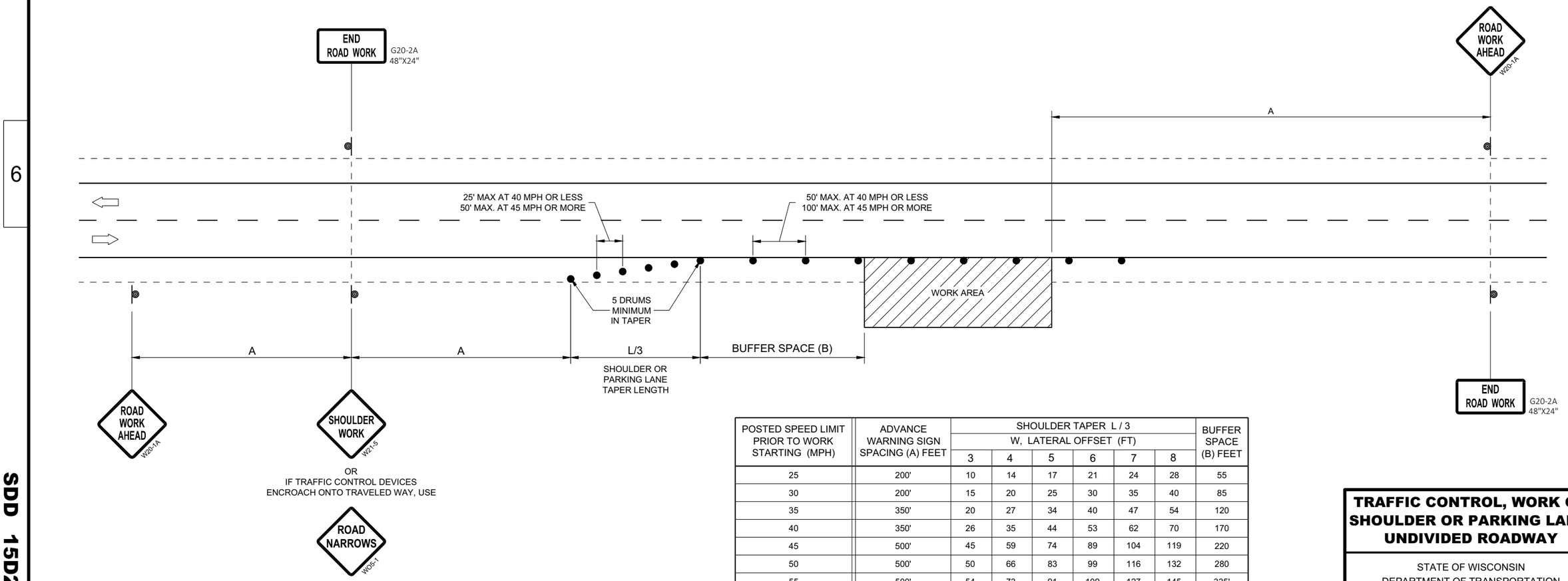
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

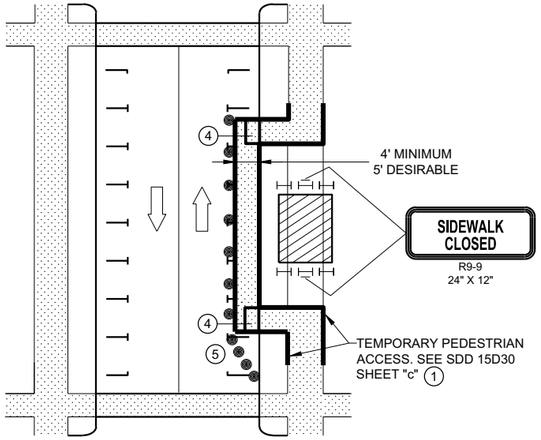
/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

6

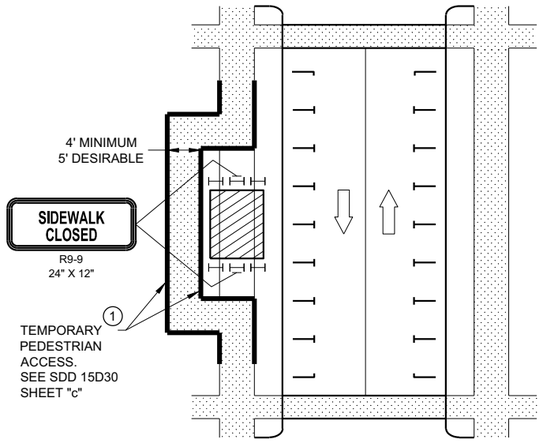
SDD 15D28 - 04

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

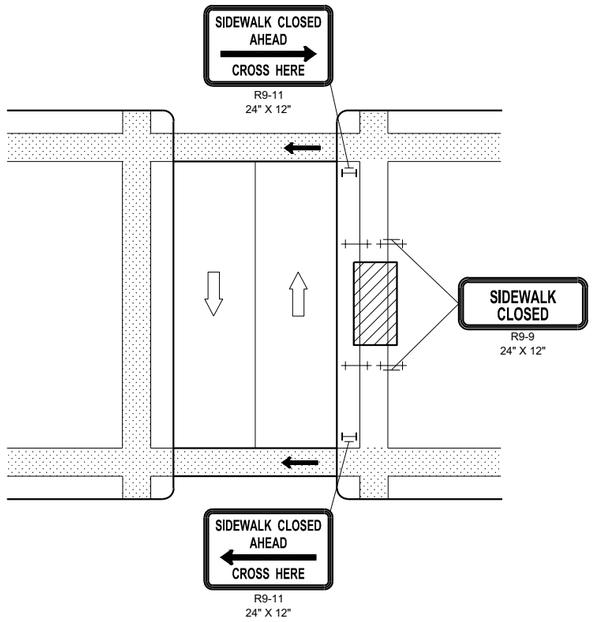


MID-BLOCK SIDEWALK SIDEWALK CLOSURE IN PARKING LANE

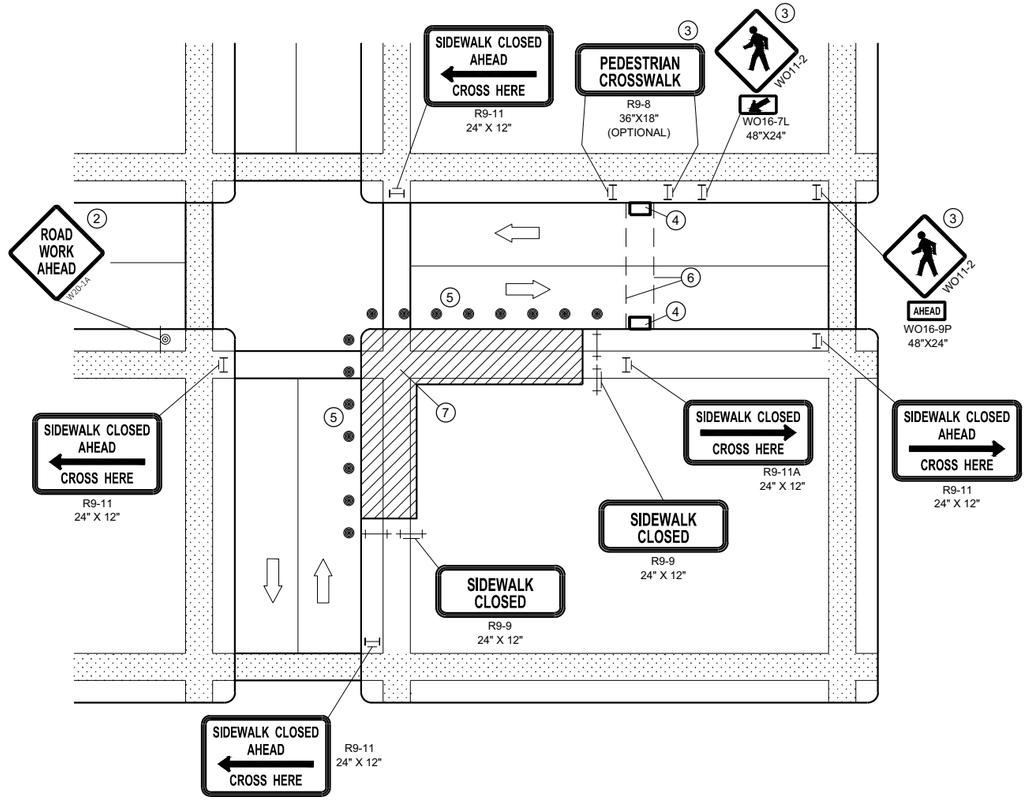
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

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

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

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

1. IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
2. "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
3. IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
4. TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.
5. DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
6. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
7. LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

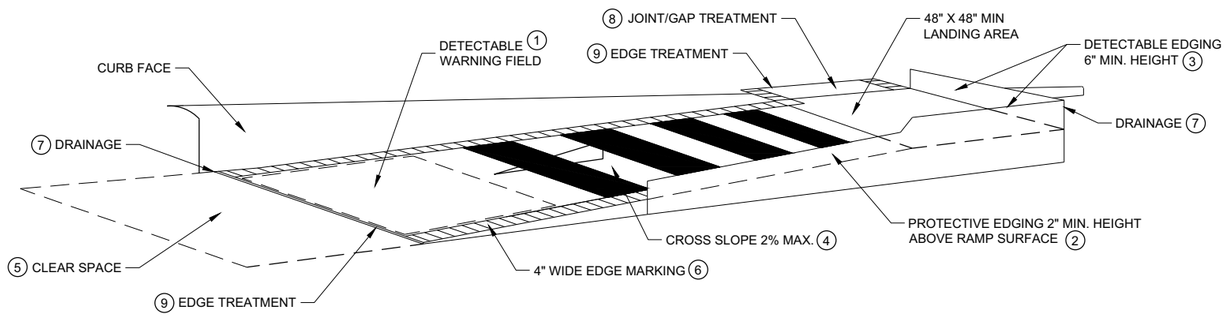
LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

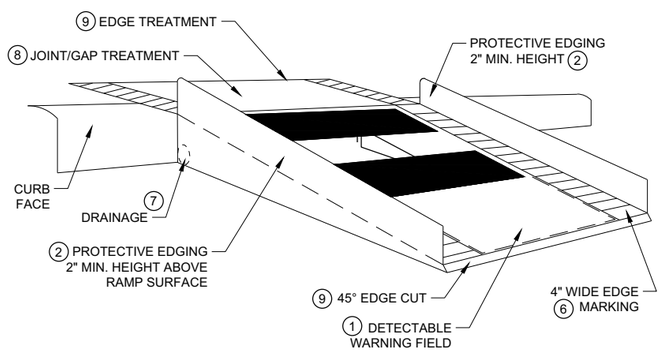
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

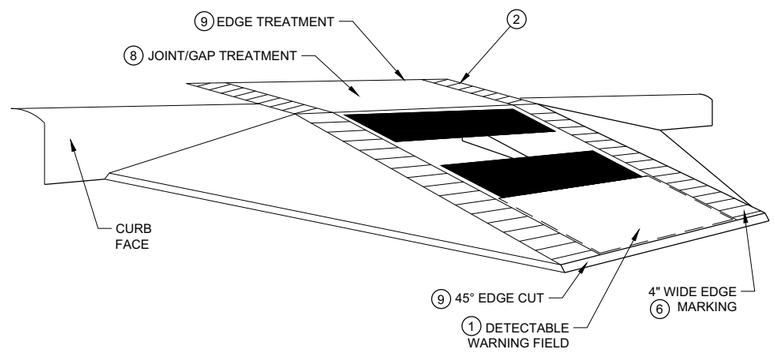
6
SDD15D30 - 06a



TEMPORARY CURB RAMP PARALLEL TO CURB



WITH PROTECTIVE EDGE



WITH SIDE APRON

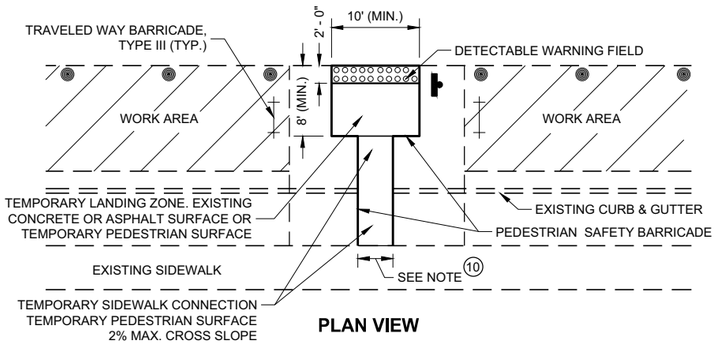
TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

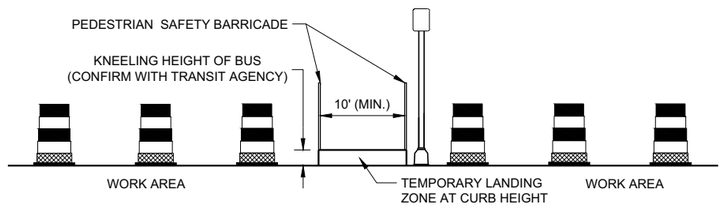
NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

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

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
5. CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
10. 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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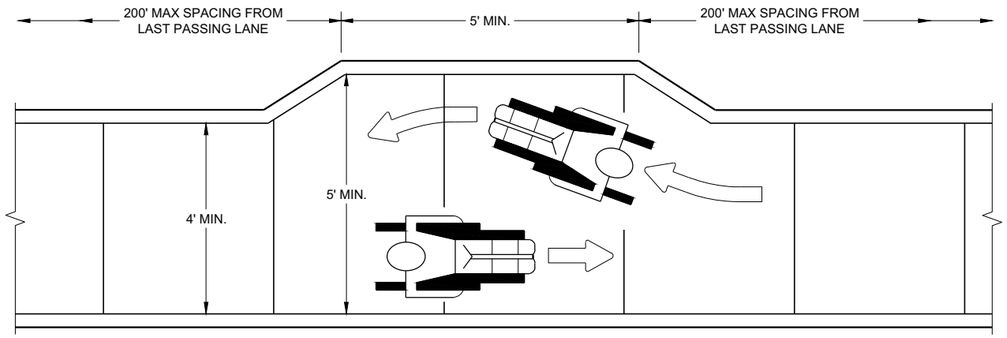
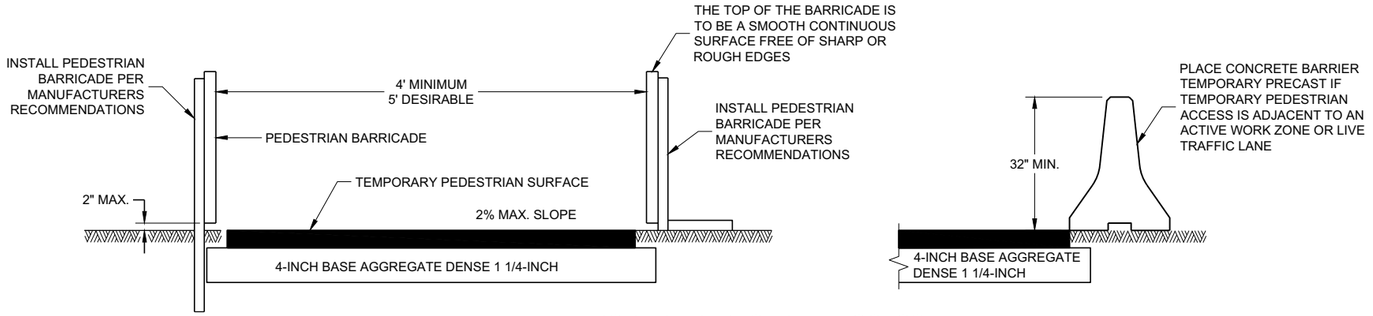
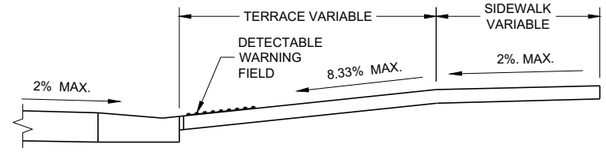


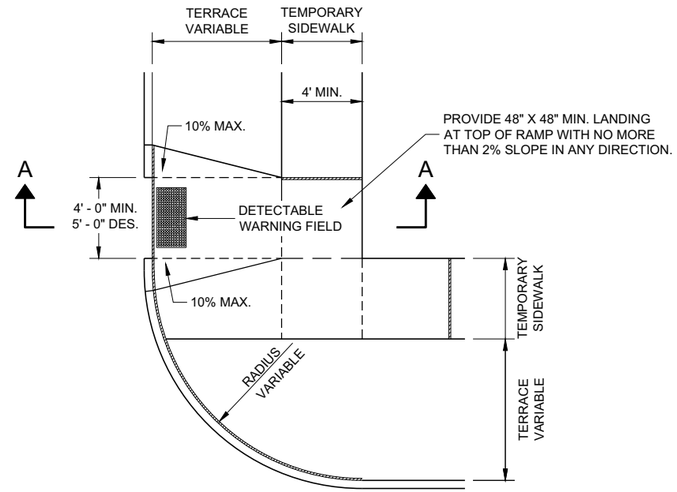
NARROW SIDEWALK PASSING DETAIL



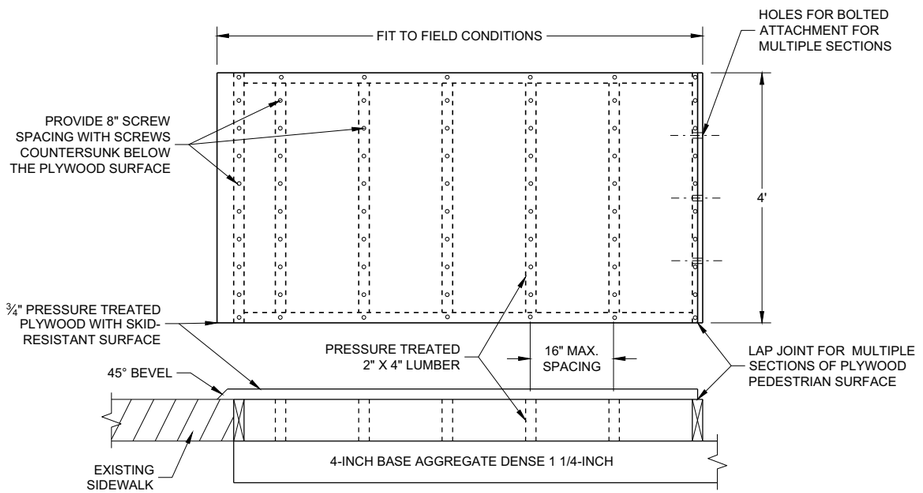
TEMPORARY PEDESTRIAN ACCESS



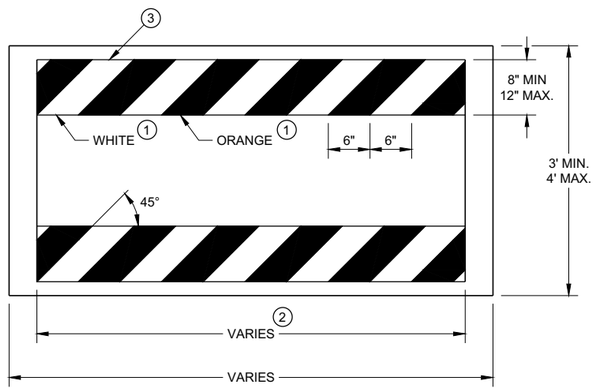
SECTION A - A



PLAN VIEW
TEMPORARY TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
3. PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE 559

FHWA

SDD 15D30 - 06c

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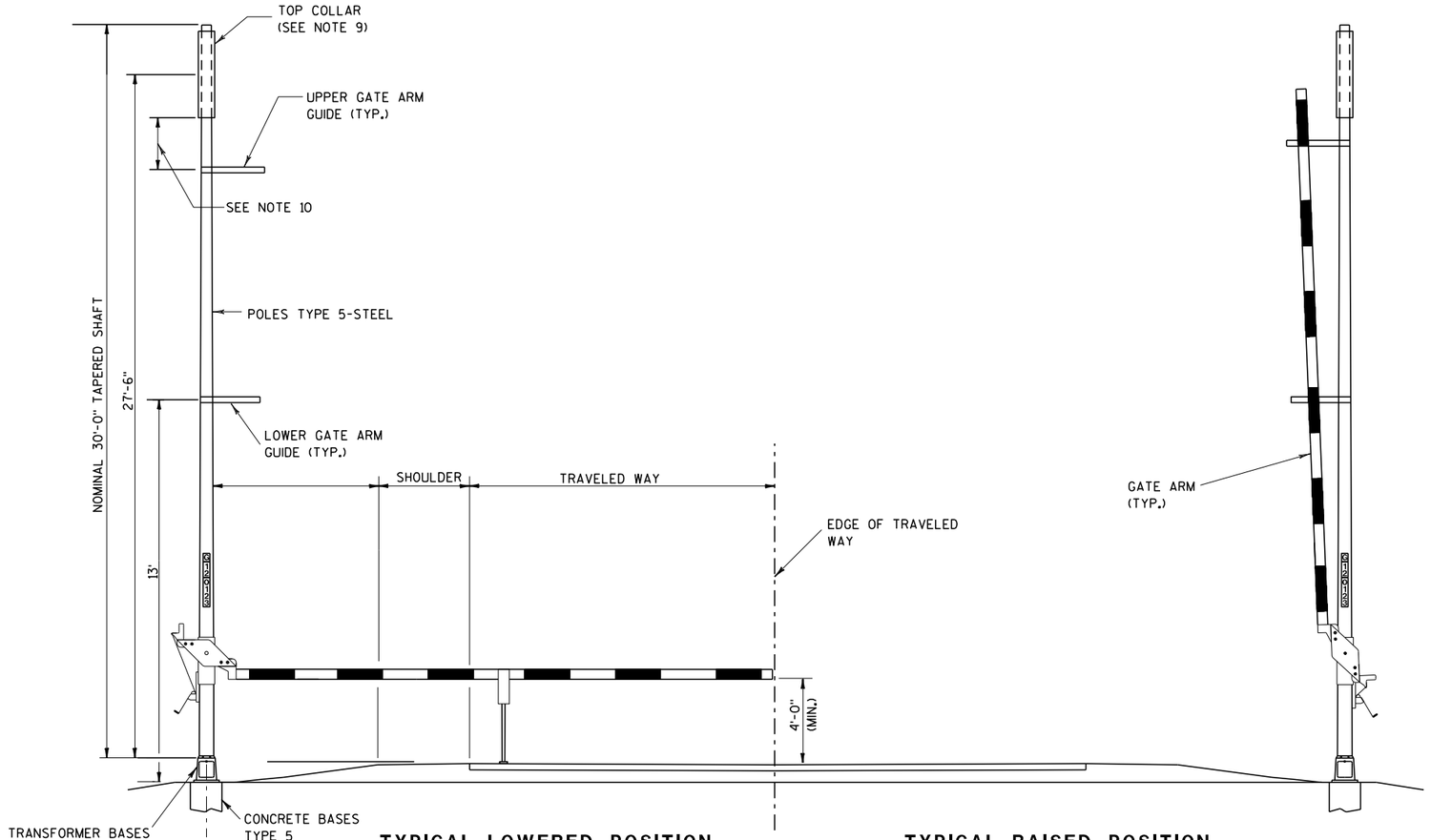
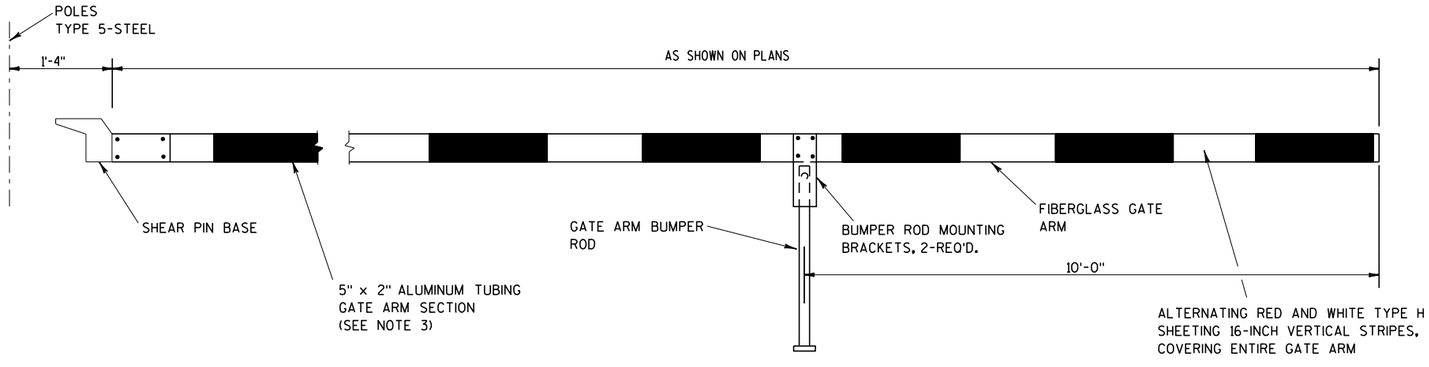
SDD 15D30 - 06c



TYPICAL LOWERED POSITION

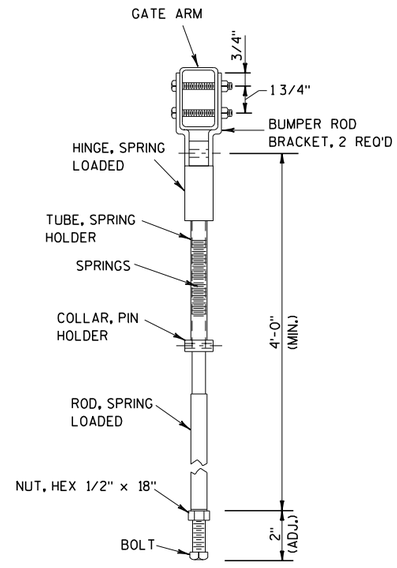
TYPICAL RAISED POSITION



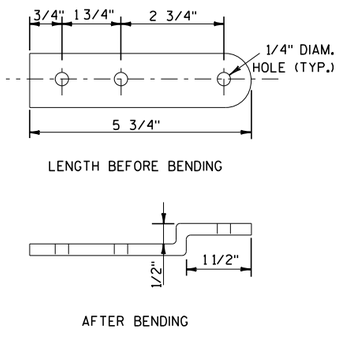
GATE DETAIL

GENERAL NOTES

1. THE LOCATION OF RAMP CLOSURE GATES AND MOUNTING HEIGHT OF GATE ARM PIVOT SHALL BE VERIFIED BY THE ENGINEER.
2. HEIGHT OF GATE ARM GUIDES MAY BE VARIED AS REQUIRED FOR WARNING LIGHT CLEARANCE.
3. FIBERGLASS/ALUMINUM GATE ARM AND SHEAR PIN BASE SHALL BE SUPPLIED BY THE SAME VENDOR.
4. GATE ARM TO BE MOUNTED ON PROPOSED POLE AS INDICATED ON THE PLANS. PROPOSED POLE SHALL BE TYPE 5 POLE.
5. LOCATION OF THE CONCRETE BASE AND LENGTH OF THE GATE ARM WILL BE VERIFIED BY THE ENGINEER TO ENSURE ADEQUATE COVERAGE OF THE TRAVELED LANE.
6. GATE PIVOTS, SUPPORTS AND GUIDES, AND ALL ASSOCIATED HARDWARE SHALL BE GALVANIZED. ALL ROUGH EDGES AND BURRS SHALL BE GROUND SMOOTH PRIOR TO GALVANIZING.
7. ALL EXPOSED BOLT THREADS SHALL BE PAINTED WITH TWO COATS OF ZINC RICH PAINT CONFORMING WITH THE REQUIREMENTS OF ASTM A 780.
8. ANY FIELD DAMAGE TO THE GALVANIZING SHALL BE REPAIRED WITH TWO COATS OF ZINC RICH PAINT CONFORMING WITH THE REQUIREMENTS OF ASTM A 780.
9. A STANDARD LIGHTING LUMINAIRE ARM MAY BE MOUNTED TO THE TYPE 5 POLE IN LIEU OF THE TOP COLLAR.
10. UPPER GATE ARM GUIDE IS TO BE INSTALLED 6 TO 12-INCHES BELOW THE BOTTOM OF THE TOP COLLAR.



GATE ARM BUMPER ROD DETAIL



BUMPER ROD MOUNTING
BRACKET DETAIL

RAMP GATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 15 D 35-3a

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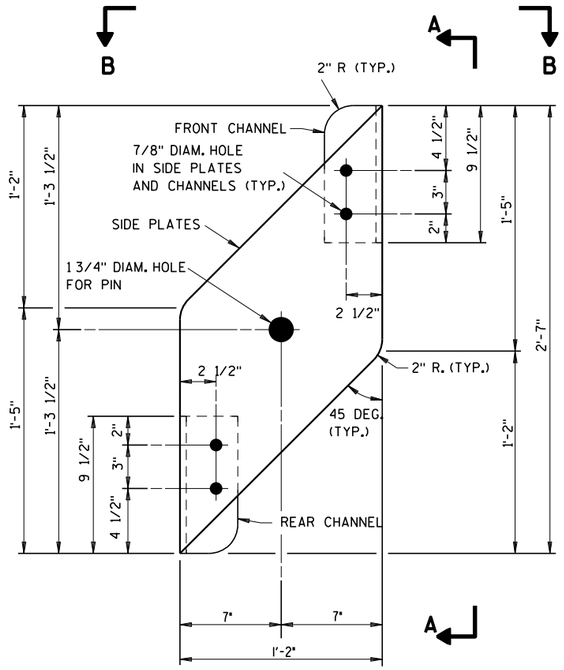
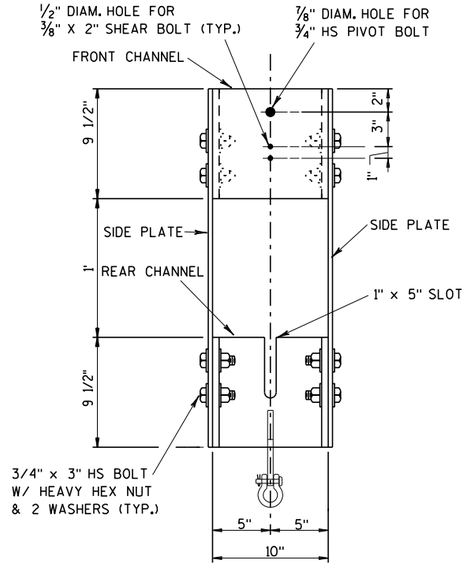
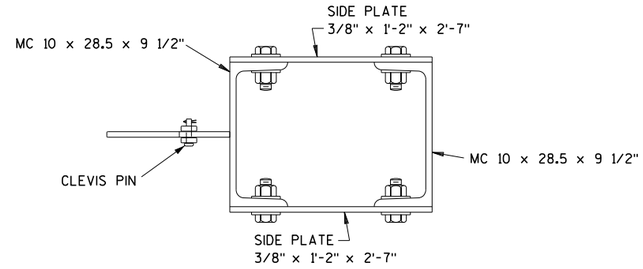
S.D.D. 15 D 35-3a



SIDE PLATE DETAIL



SECTION A-A



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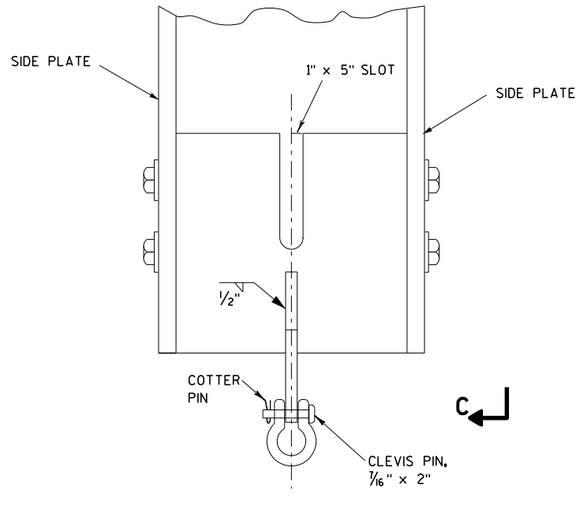
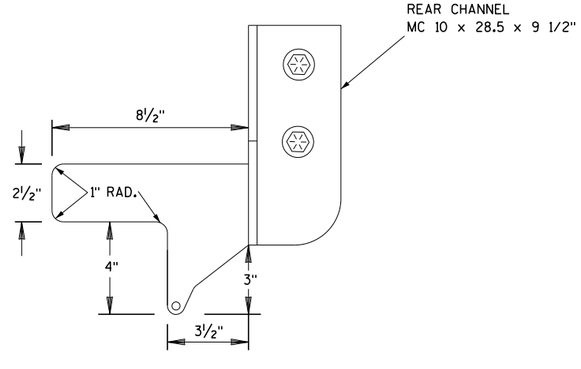


YOKE ASSEMBLY DETAIL



SECTION C-C

RAMP GATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 15 D 35-3b

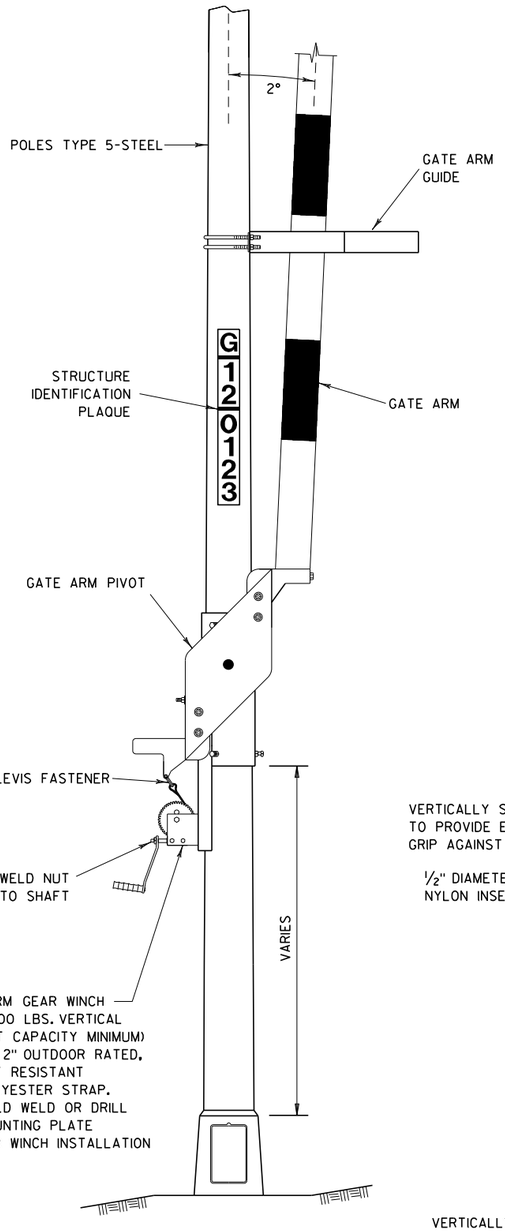
GENERAL NOTES

1. WHEN THE GATE IS FULLY RAISED, THE NUT AND WASHER SHALL BE PLACED SNUGLY AGAINST THE OUTSIDE OF THE REAR CHANNEL.

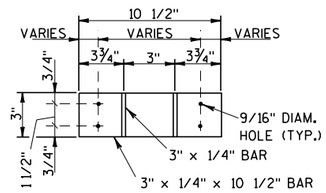
2. WHEN THE GATE IS FULLY LOWERED, THE NUT AND WASHER SHALL BE PLACED SNUGLY AGAINST THE INSIDE OF THE REAR CHANNEL.

3. ANTI-SEIZE LUBRICATING MATERIAL SHALL BE USED ON ALL BOLT THREADS BEFORE INSTALLATION.

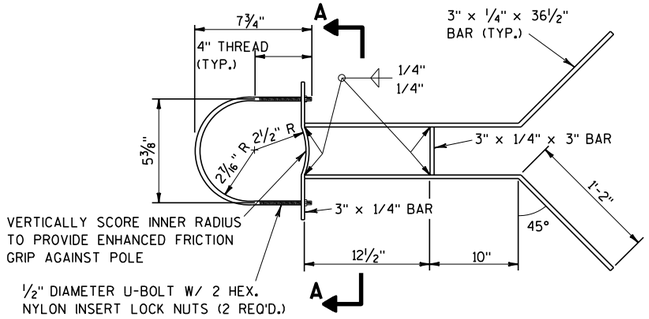
4. ALL BOLTS SHALL BE GALVANIZED AND CONFORM TO ASTM A307, GRADE A, UNLESS DESIGNATED AS HS (HIGH STRENGTH), WHICH SHALL CONFORM TO ASTM A325. BOLTS OF ½" NOMINAL DIAMTER OR LESS MAY BE STAINLESS STEEL.



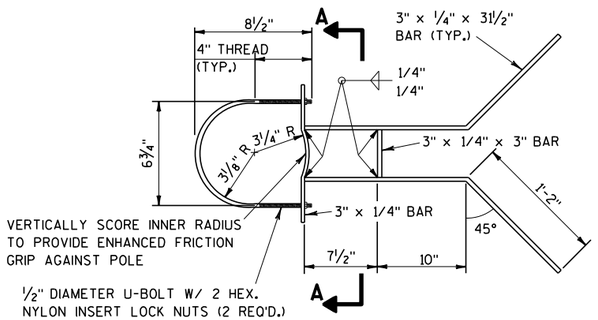
GATE PIVOT ASSEMBLY



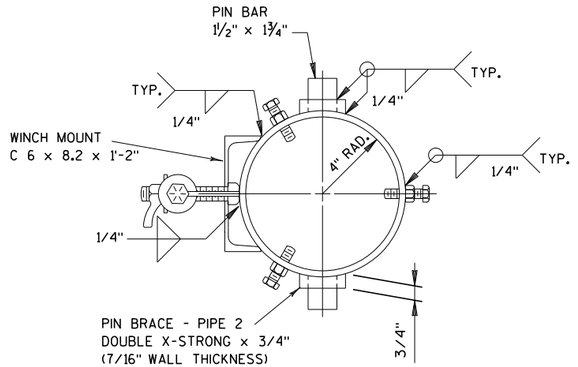
SECTION A-A
U-BOLTS NOT SHOWN



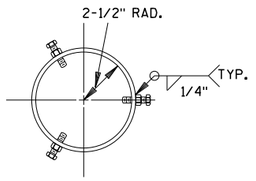
UPPER GATE ARM GUIDE DETAIL



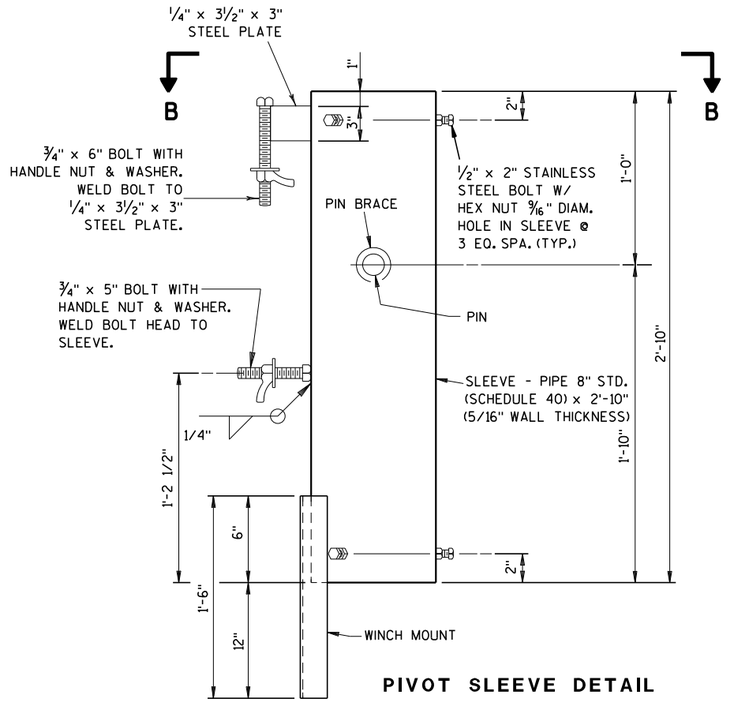
LOWER GATE ARM GUIDE DETAIL



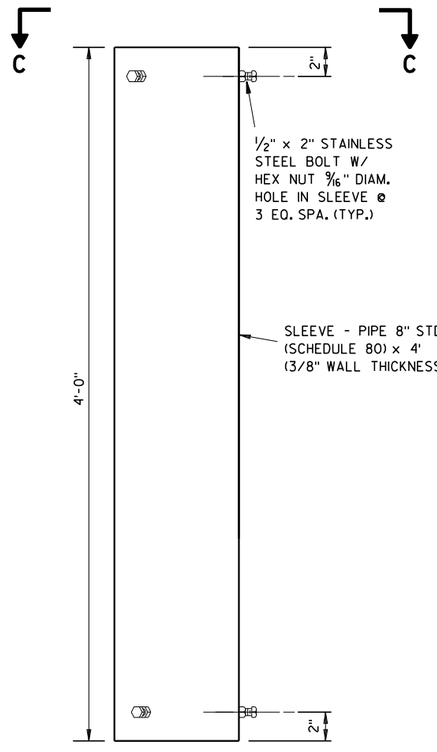
SECTION B-B



SECTION C-C



PIVOT SLEEVE DETAIL



TOP COLLAR

RAMP GATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER
FHWA

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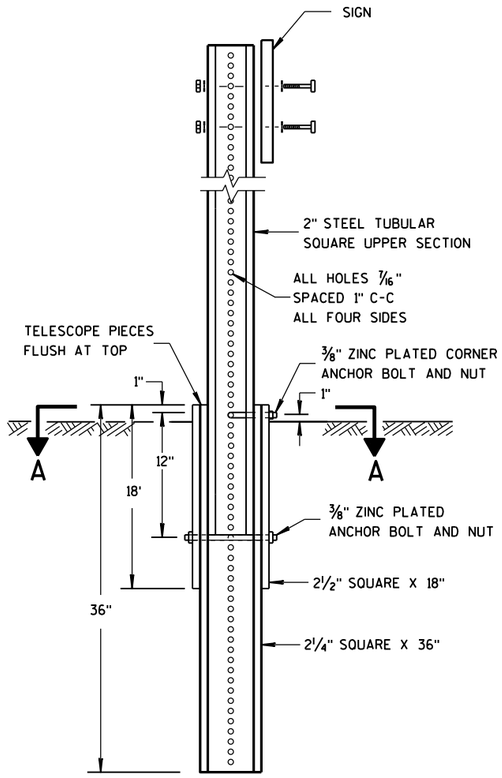
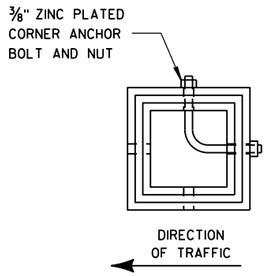
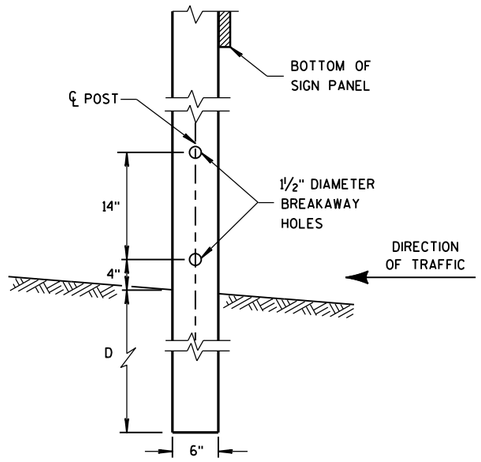
S.D.D. 15 D 35-3c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



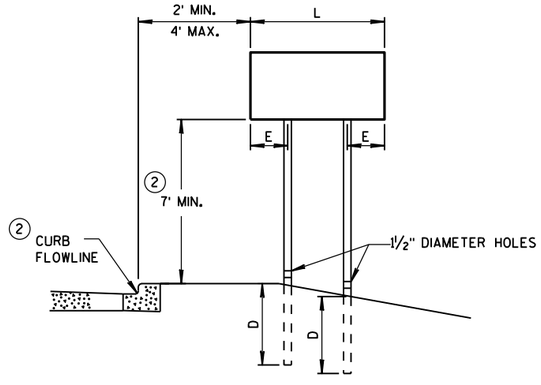
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

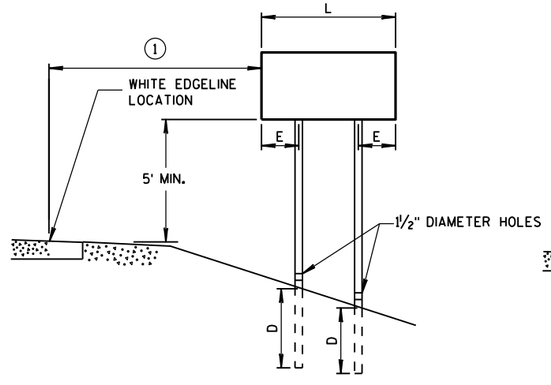
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

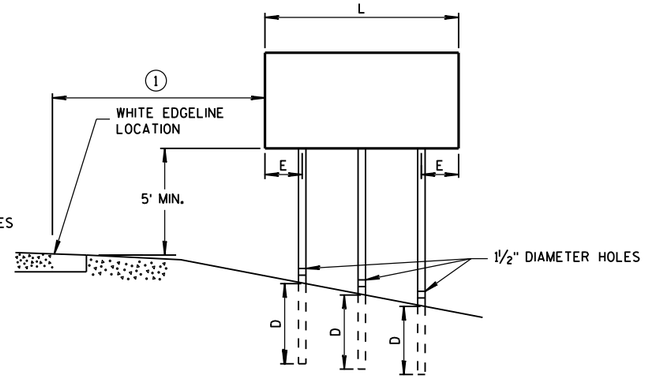
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK 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 TRANSPOR

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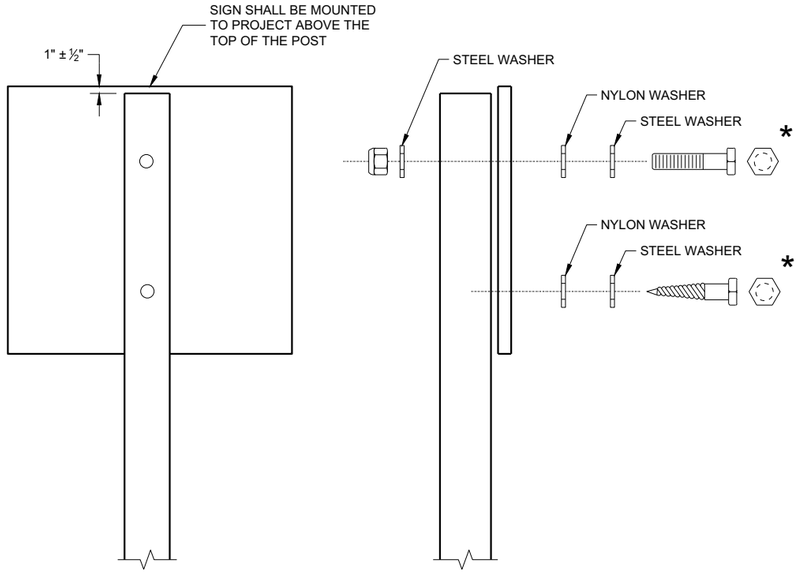
S.D.D. 15 D 38-2a



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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SDD 15D38 - 02b

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ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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.

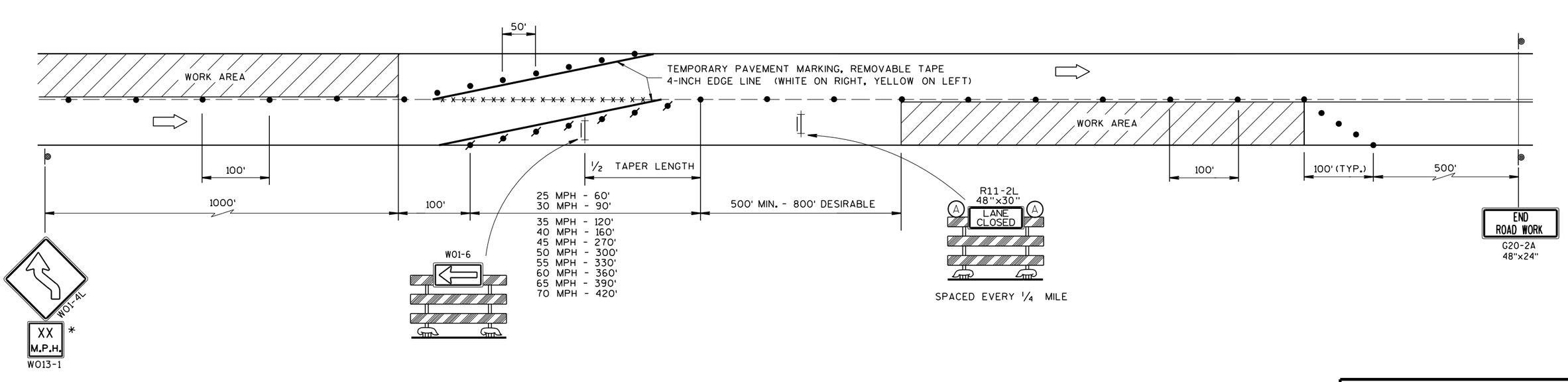
FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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 E
FHWA

6

S.D.D. 15 D 40-1

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

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 LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

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

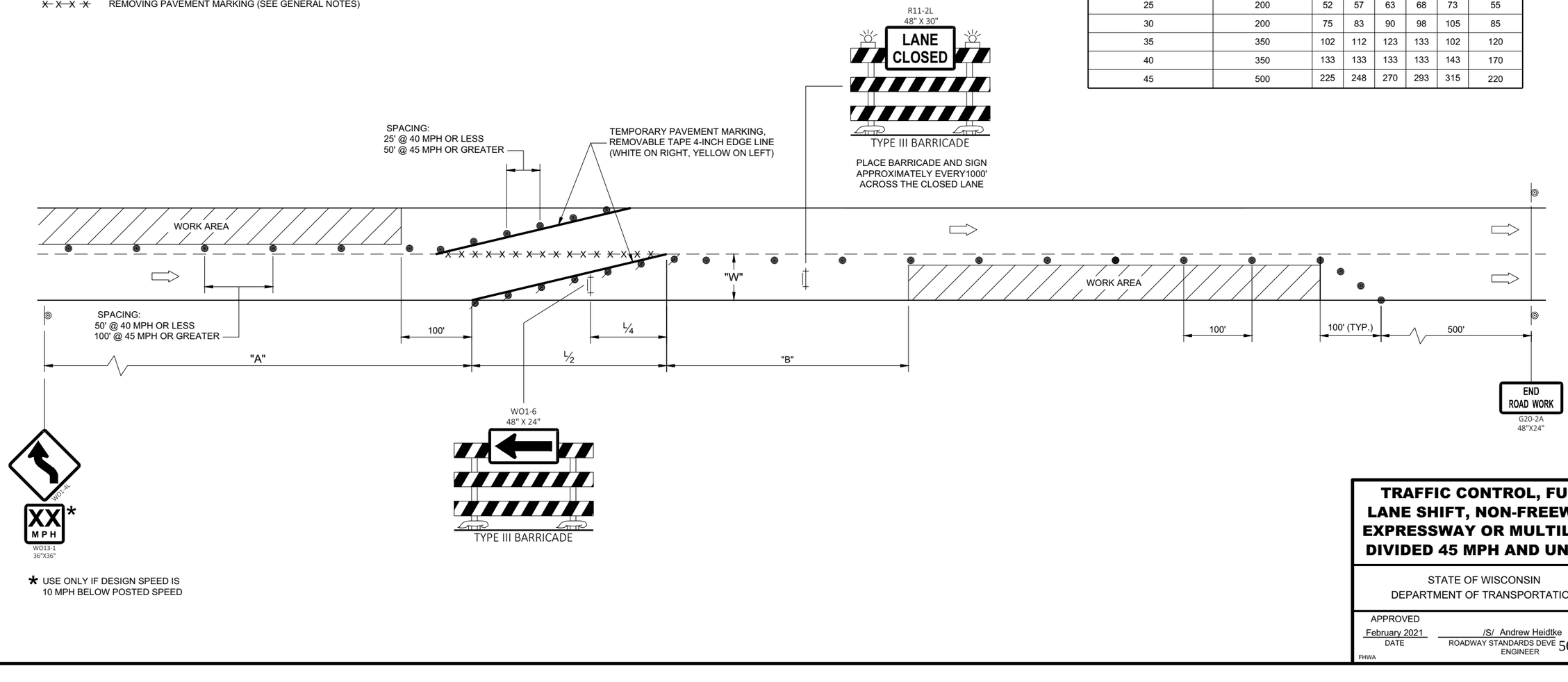
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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 SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					BUFFER SPACE (B) FEET
		10	11	12	13	14	
25	200	52	57	63	68	73	55
30	200	75	83	90	98	105	85
35	350	102	112	123	133	102	120
40	350	133	133	133	133	143	170
45	500	225	248	270	293	315	220



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

TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 15D40 - 02a

6

SDD 15D40 - 02a

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVE PAVEMENT MARKING

GENERAL NOTES

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

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

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

REMOVE PAVEMENT MARKINGS 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.

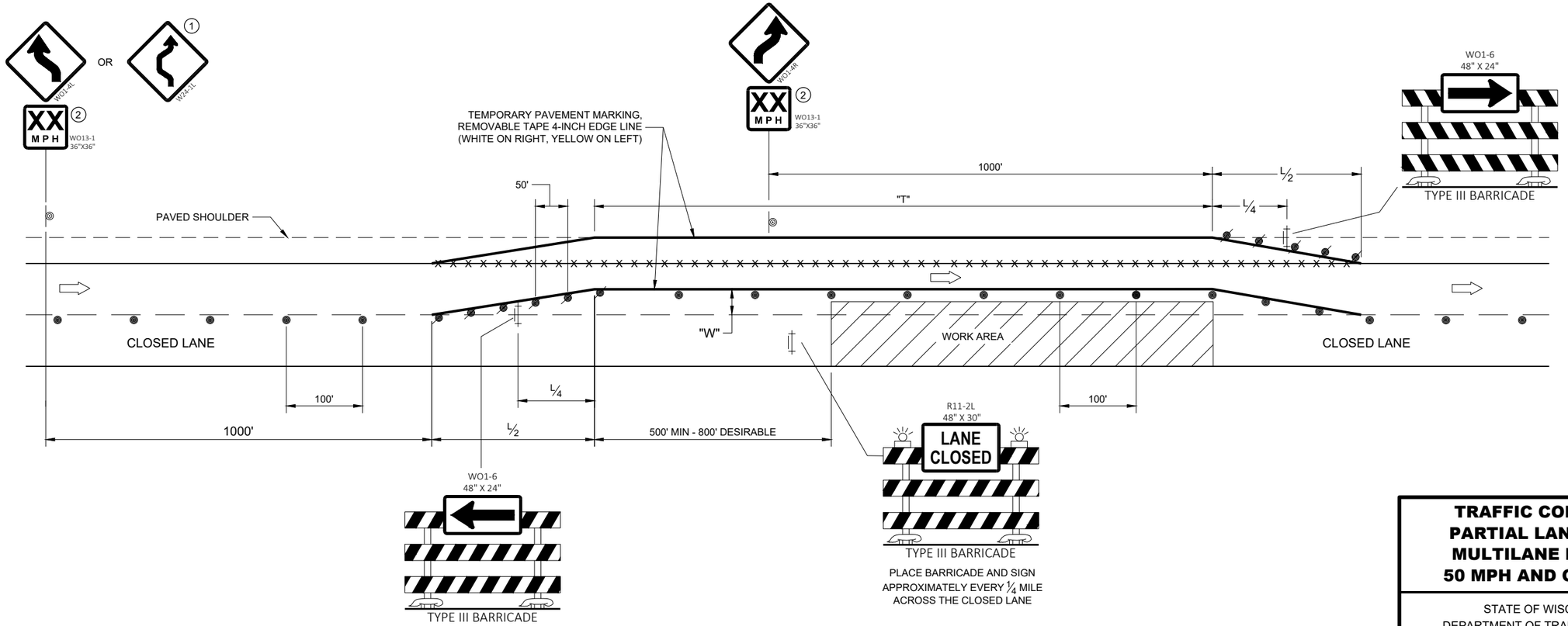
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY WHEN T<600', OMIT WO1-4R.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)								
	1	2	3	4	5	6	7	8	9
50	25	50	75	100	125	150	175	200	225
55	28	55	83	110	138	165	193	220	248
60	30	60	90	120	150	180	210	240	270
65	33	65	98	130	163	195	228	260	293
70	35	70	105	140	175	210	245	280	315



PLACE BARRICADE AND SIGN APPROXIMATELY EVERY 1/4 MILE ACROSS THE CLOSED LANE

TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 15D40 - 02d
SDD 15D40 - 02d

LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

CONCRETE BARRIER TEMPORARY PRECAST

TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

L, TAPER LENGTH (MPH)							
SPEED (MPH)	W, LATERAL OFFSET (FT)						
	10	11	12	13	14	15	16
45	450	495	540	585	630	675	720
50	500	550	600	650	700	750	800
55	550	605	660	715	770	825	880
60	600	660	720	780	840	900	960
65	650	715	780	845	910	975	1040
70	700	770	840	910	980	1050	1120

OR

LOCATED 3000 FEET BEYOND THE "ROAD WORK 1 MILE" (W20-1F) SIGN

R2-1
48"X60"

OR

R2-1
48"X60"

(BLACK AND WHITE) LOCATED 700 FEET BEYOND THE W03-5 SIGN

IF THE REGULATORY SPEED HAS BEEN REDUCED, 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 INCORPORATED A MINIMUM OF EVERY 3 MILES.

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 LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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.

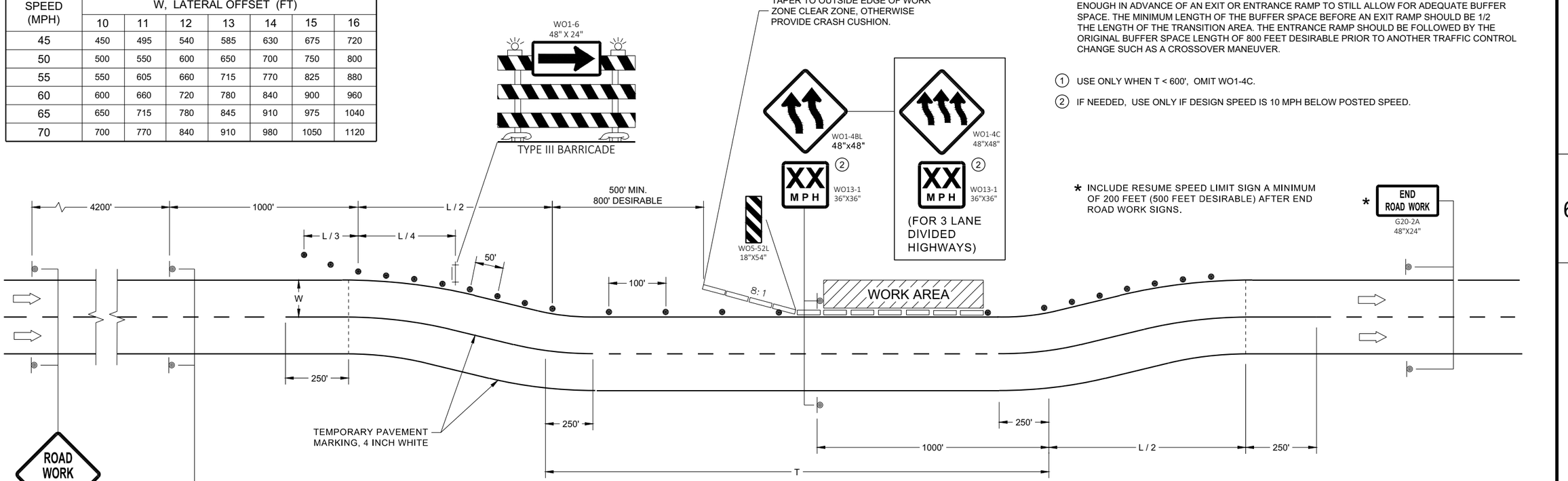
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY WHEN T < 600', OMIT WO1-4C.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.



MULTIPLE LANE SHIFT MULTILANE DIVIDED ROAD

TRAFFIC CONTROL
MULTIPLE LANE SHIFT
MULTILANE DIVIDED ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15D41 - 01

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

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

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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

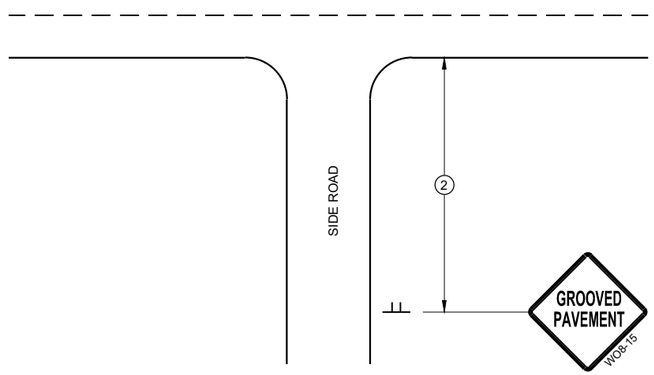
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

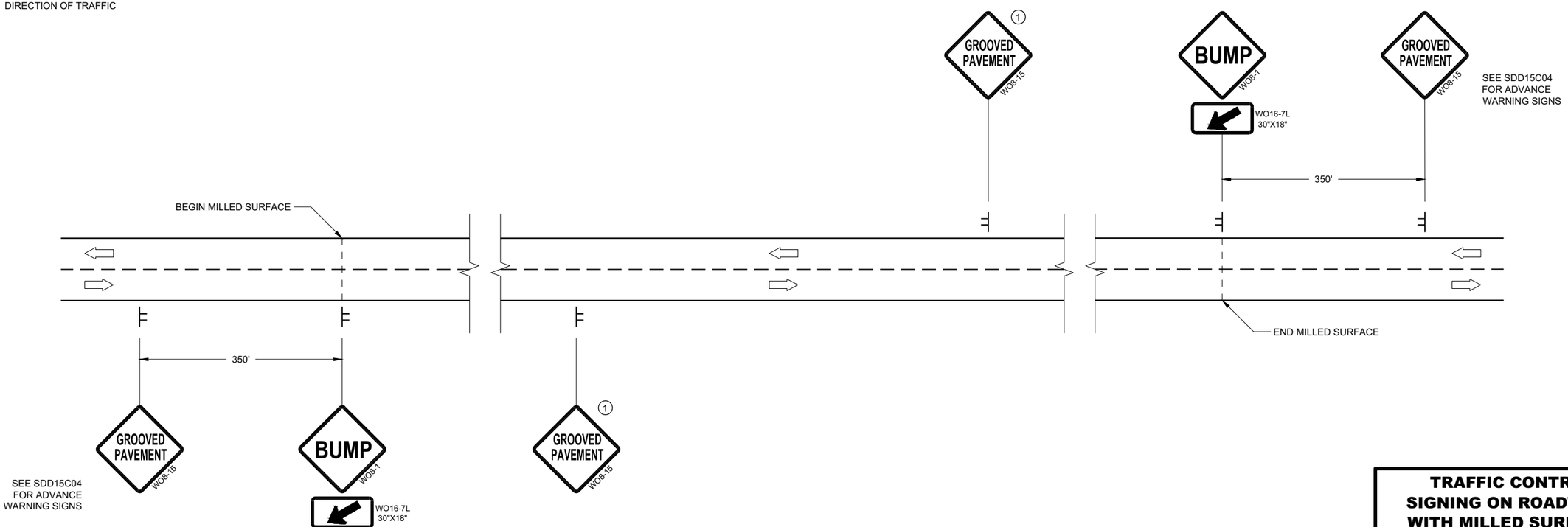
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6
SDD 15D44 - 02

LEGEND

- EXISTING SIGN ON PERMANENT SUPPORT
- NEW SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES

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

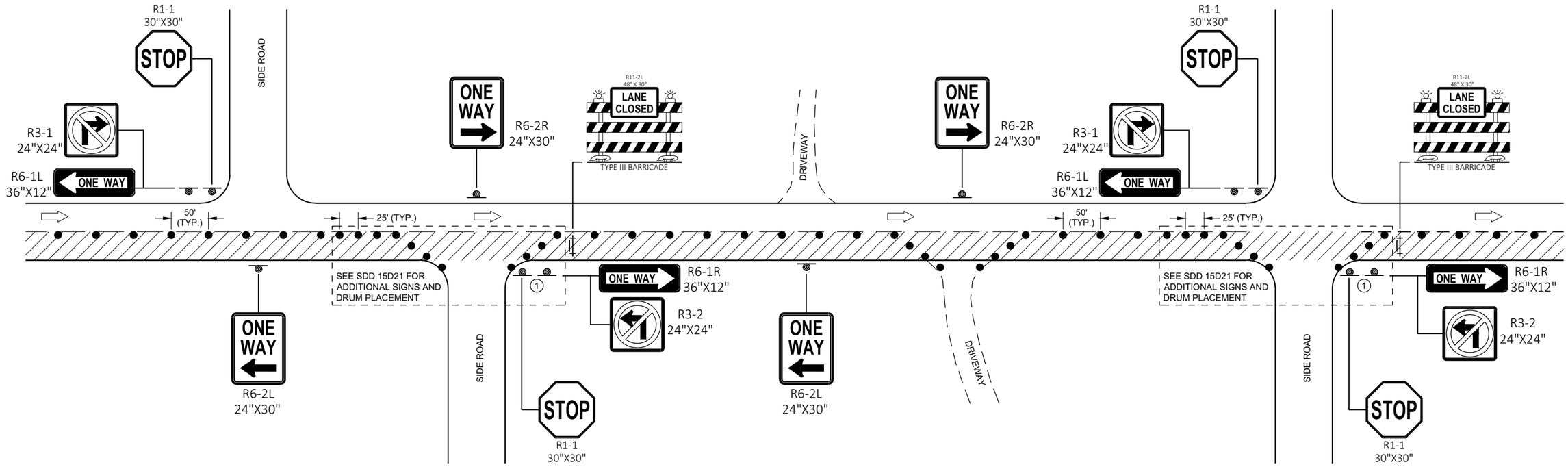
ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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.

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.

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

(1) IF WORK OPERATIONS ALLOWS, MOVE R1-1, R6-1R, AND R3-2 CLOSER TO INTERSECTION.



TRAFFIC CONTROL
ONE - WAY SIGNING

TRAFFIC CONTROL ONE-WAY SIGNING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2020 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEE 570
FHWA	

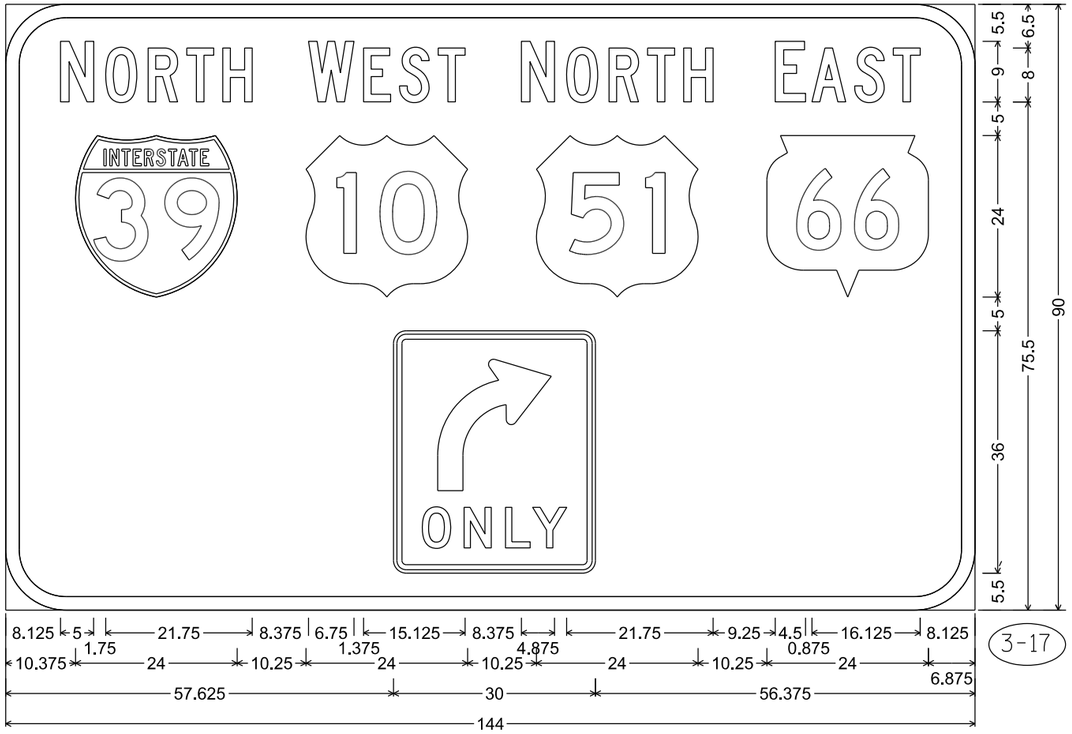
SDD 15D46 - 01

SDD 15D46 - 01

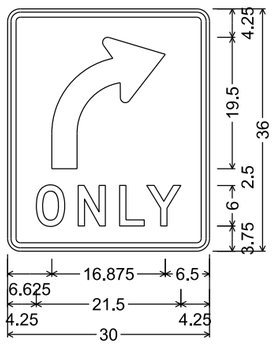
6

NOTES

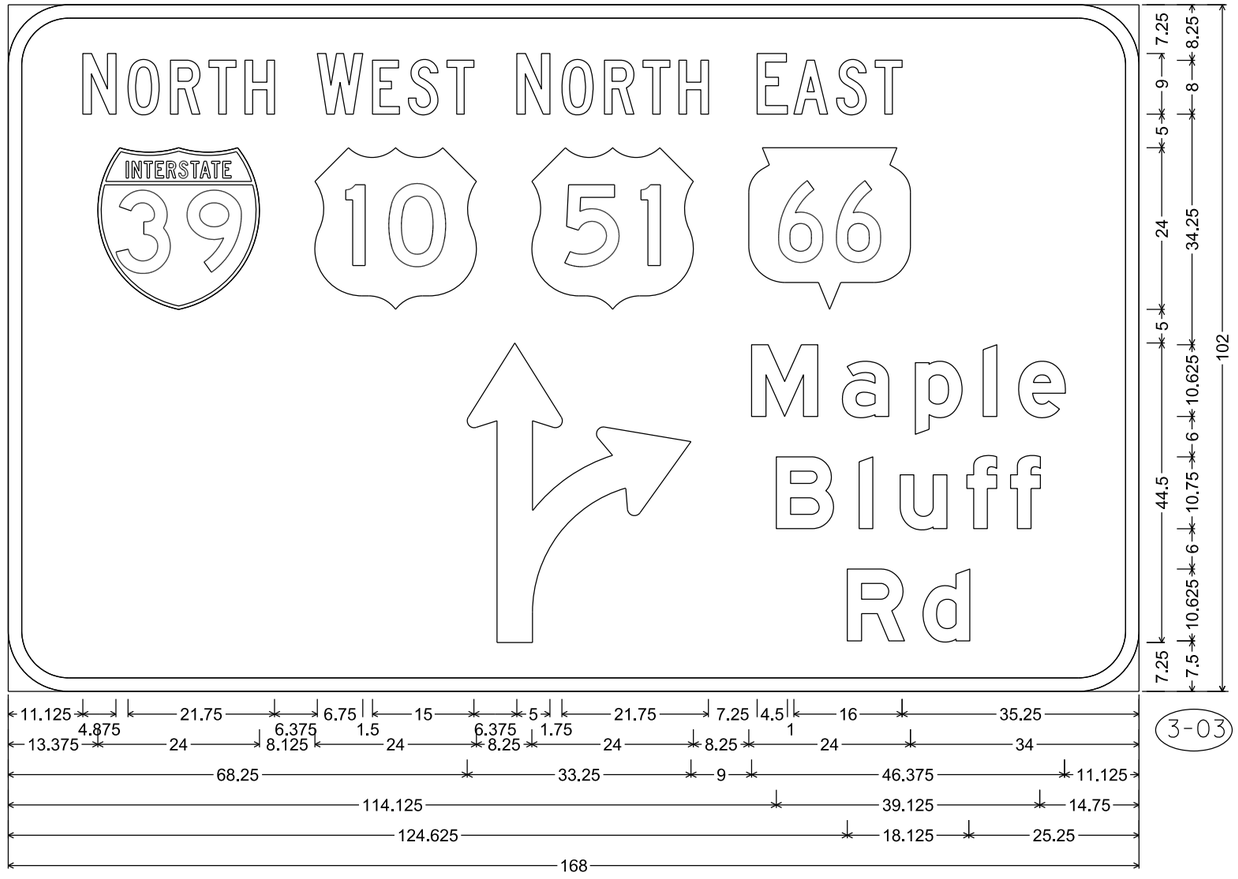
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all Caps Words Series E



D15-1; 9.000" Radius, 2.000" Border, White on, Green;
"NORTH", C; "WEST", C; "NORTH", C; "EAST", C



R3-5R_30x36;
1.875" Radius, 0.750" Border, 0.500" Indent, Black on, White;
R3-5R right turn arrow ir=9.5, s=3.75;
"ONLY", D;



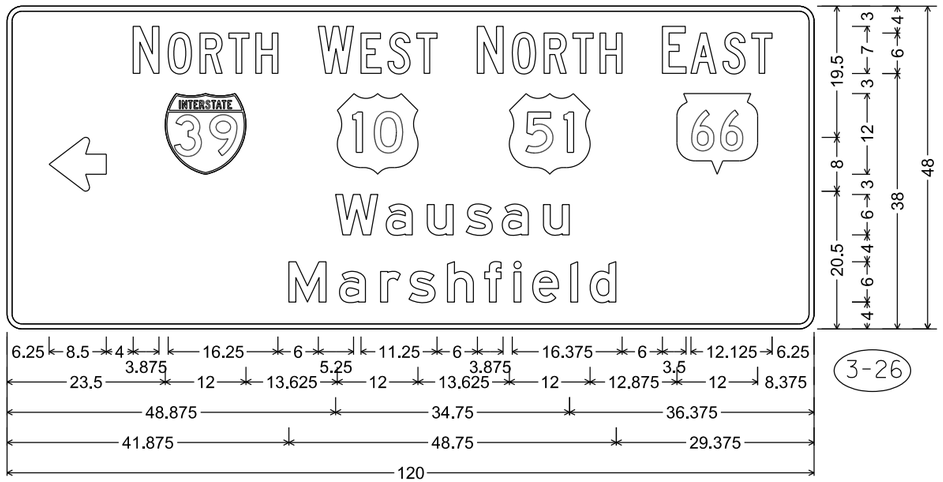
E6-53; 9.000" Radius, 2.000" Border,
"NORTH", C; "WEST", C; "NORTH", C; "EAST", C; "Maple", E Mod; "Bluff", E Mod; "Rd", E Mod;

7

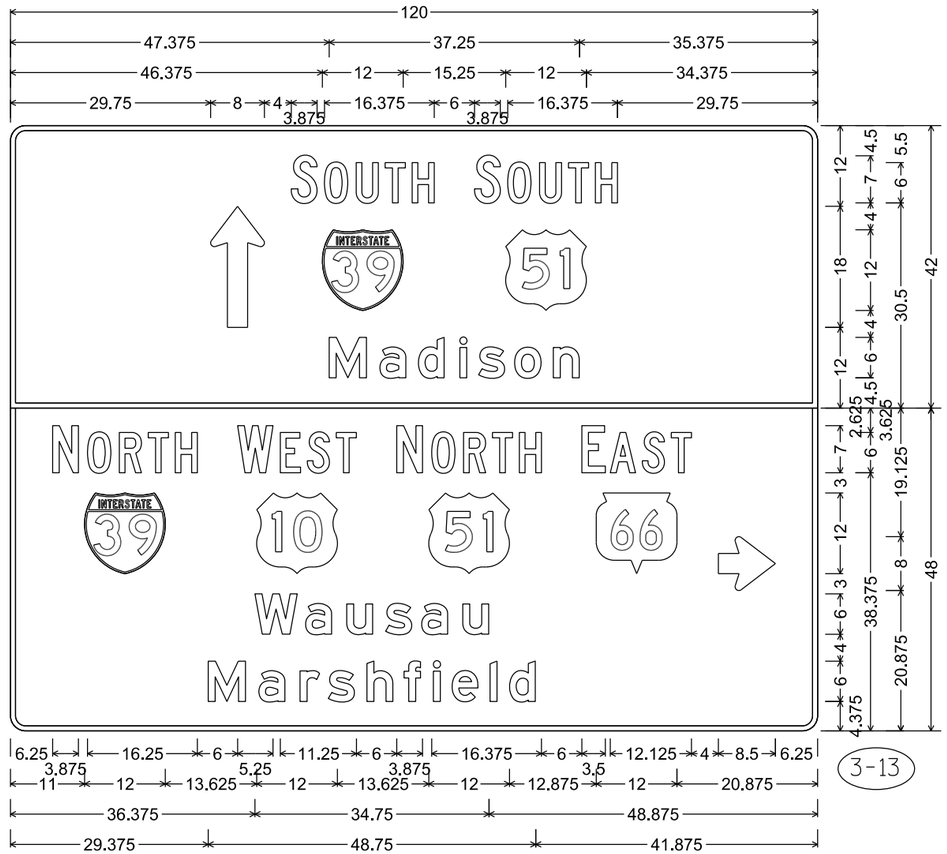
7

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted



D1-70; 2.250" Radius, 0.750" Border,
"NORTH", C; "WEST", C; "NORTH", C; "EAST", C; "Wausau", E; "Marshfield", E

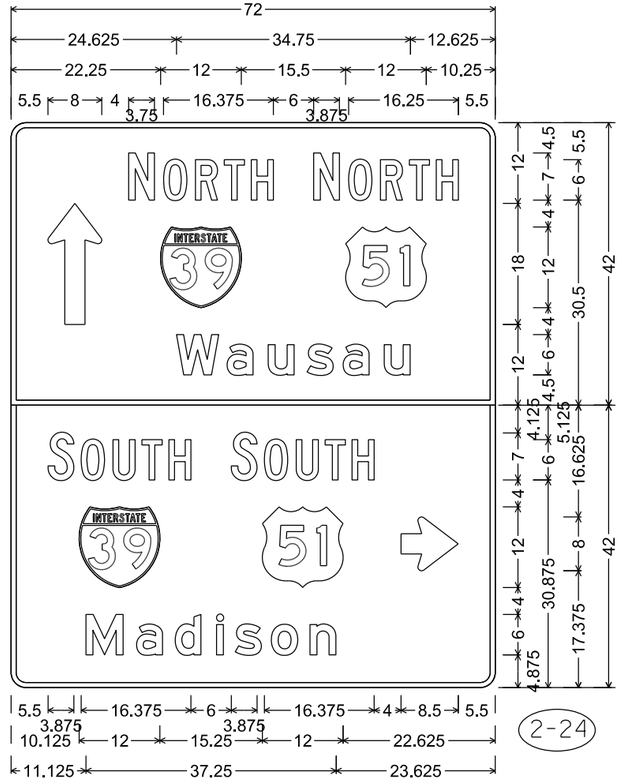


D1-71; 2.250" Radius, 0.750" Border,
"SOUTH", C; "SOUTH", C; "Madison", E; "NORTH", C; "WEST", C; "NORTH", C; "EAST", C; "Wausau", E; "Marshfield"

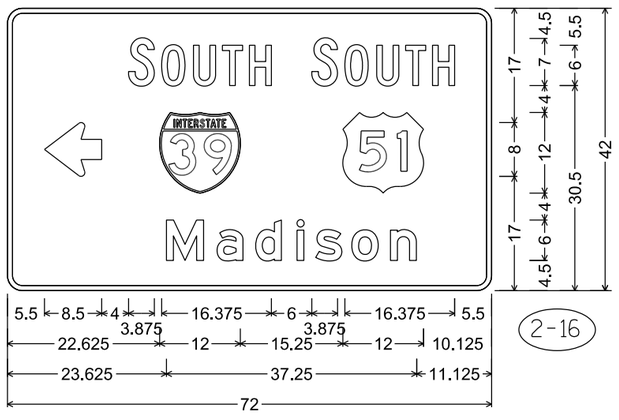
7

7

PROJECT NO: 1166-06-75/6290-09-70	HWY: USH 10	COUNTY: PORTAGE	PERMANENT SIGNING	SHEET NO: 572	E



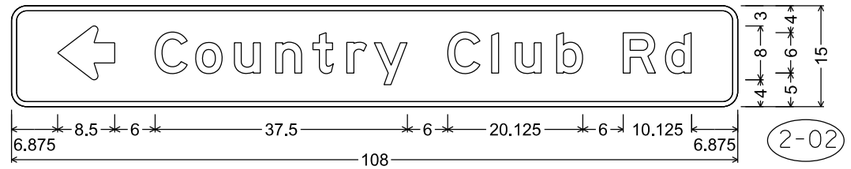
D1-71; 2.250" Radius, 0.750" Border,
"NORTH", C; "NORTH", C; "Wausau", E; "SOUTH", C; "SOUTH", C; "Madison", E;



D1-70; 2.250" Radius, 0.750" Border,
"SOUTH", C; "SOUTH", C; "Madison", E

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted



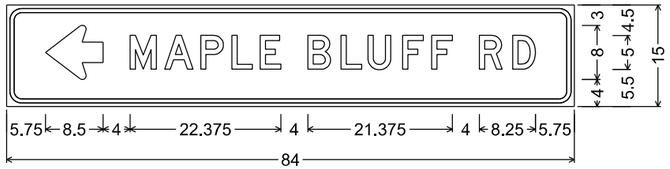
D1-1; 2.250" Radius, 0.750" Border

7

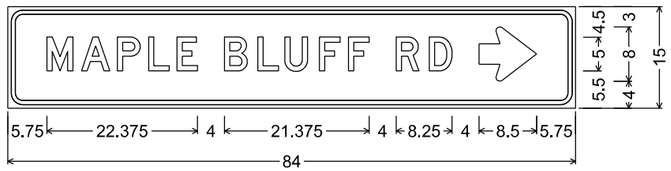
7

NOTES

1. Fixed Message Signs Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D except as noted



2.250" Radius, 0.625" Border, 0.500" Indent



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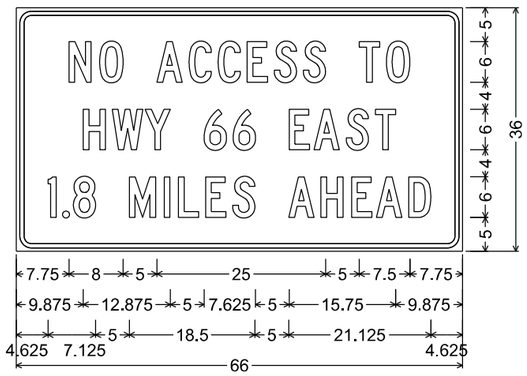
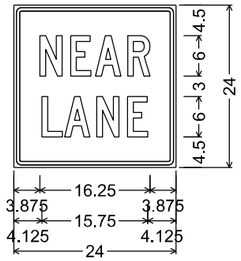
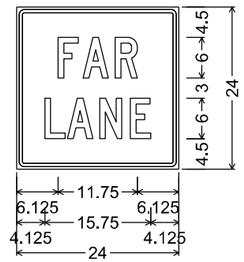


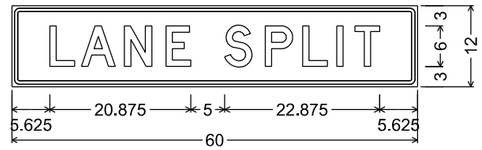
2.250" Radius, 0.625" Border, 0.500" Indent
"NO", C; "ACCESS", C; "TO", C; "HWY", C;
"66", C; "EAST", C; "1.8", C; "MILES", C;
"AHEAD", C;



1.125" Radius, 0.500" Border, 0.375" Indent
"NEAR", C; "LANE", C

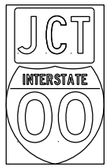


1.125" Radius, 0.500" Border, 0.375" Indent
"FAR", C; "LANE", C

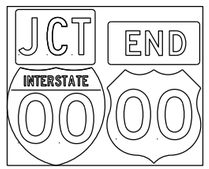


1.125" Radius, 0.500" Border, 0.375" Indent

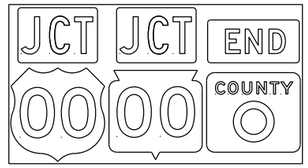
TYPICAL ASSEMBLIES



J1-1



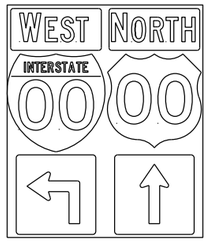
J1-2



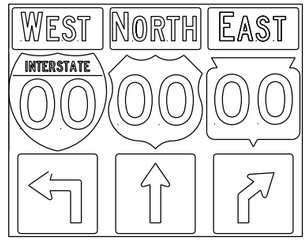
J1-3

JR1-1

J2-1

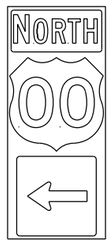


J2-2



J2-3

JV
(Typical Vertical J-Assembly
See Note 10 and 11)



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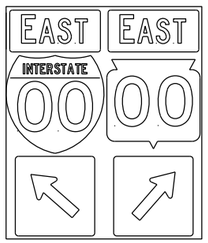
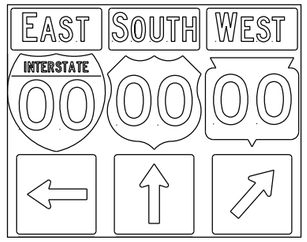
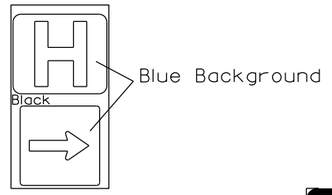


J3-2

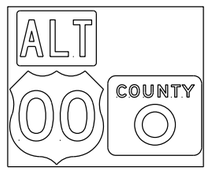


J3-3

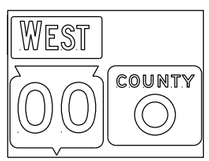


JH-1

J4-1

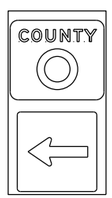


J4-2



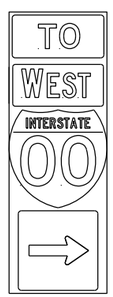
J4-2

J12-1



J13-1

J32-1



J33-1

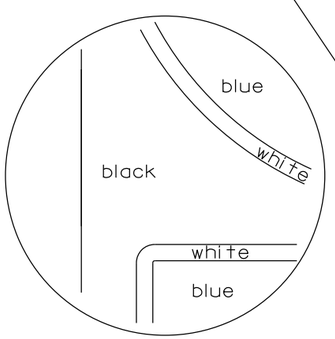
J22-1

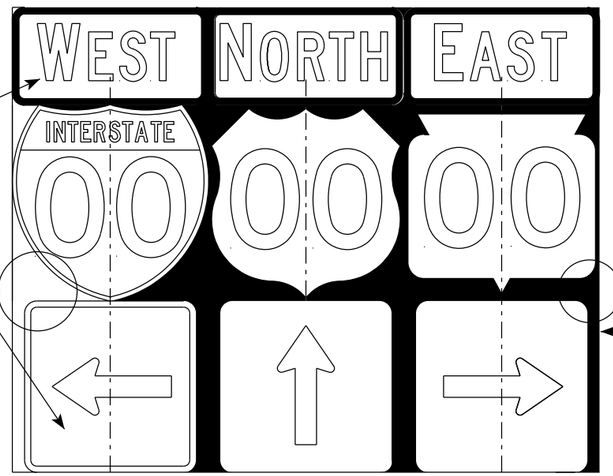
J23-1

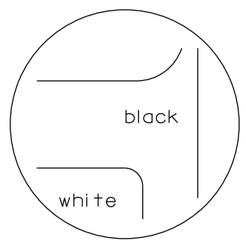
JR13-1

JR23-1

JR99-1







black background

NOTES

1. Signs are Type II - Type H Reflective
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 3/18/21 PLATE NO. A2-1S.9

PROJECT NO:

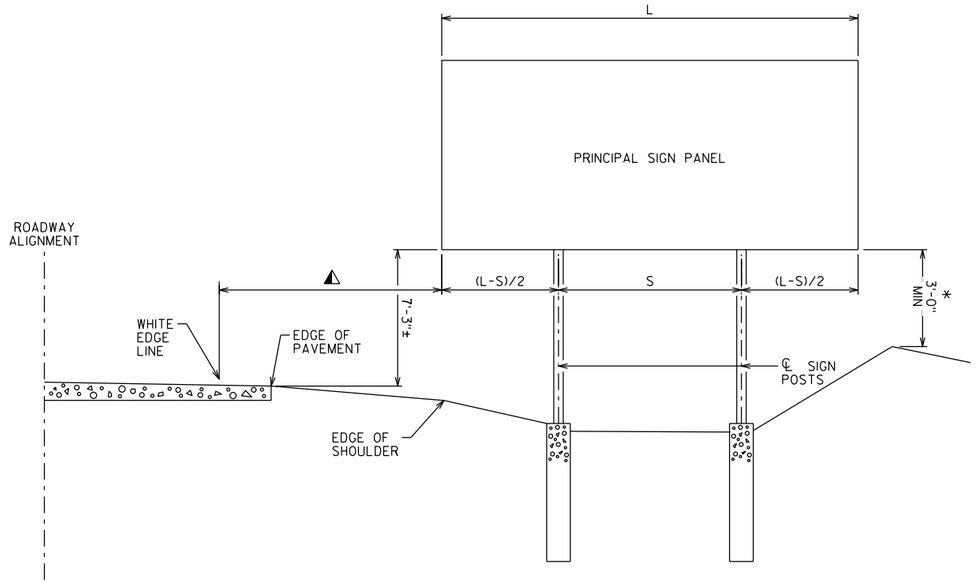
SHEET NO: 575 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_A21S.dgn PLOT DATE : 18-MAR 2021 1:37 PLOT BY : mscj9h PLOT NAME :

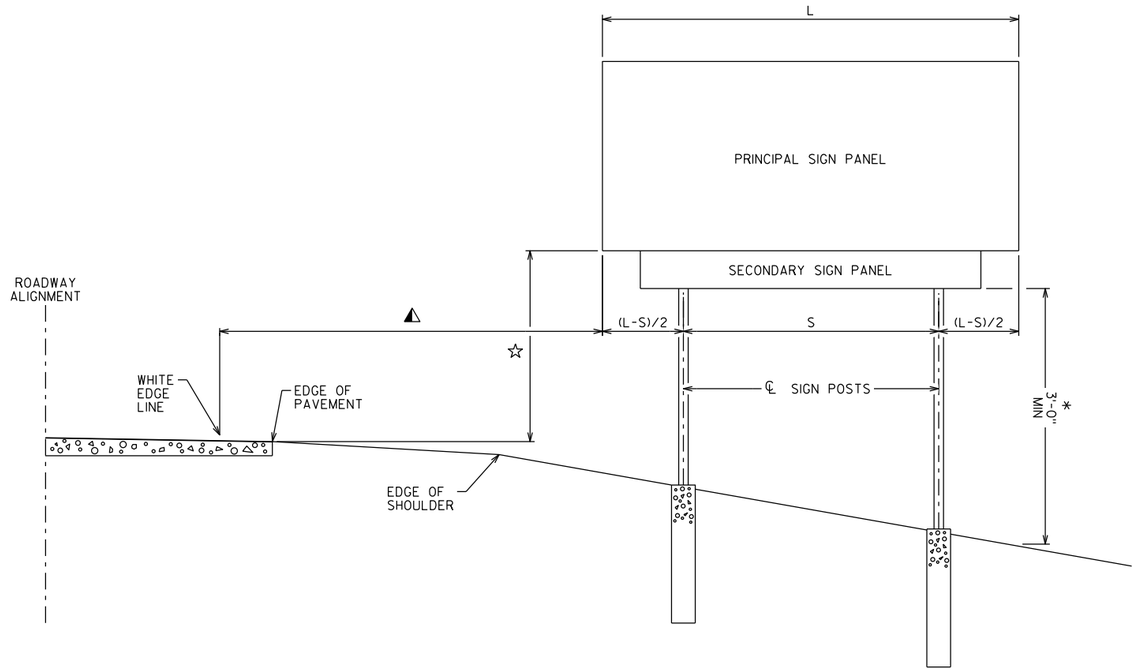
WISDOT/CADDS SHEET 42

7

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

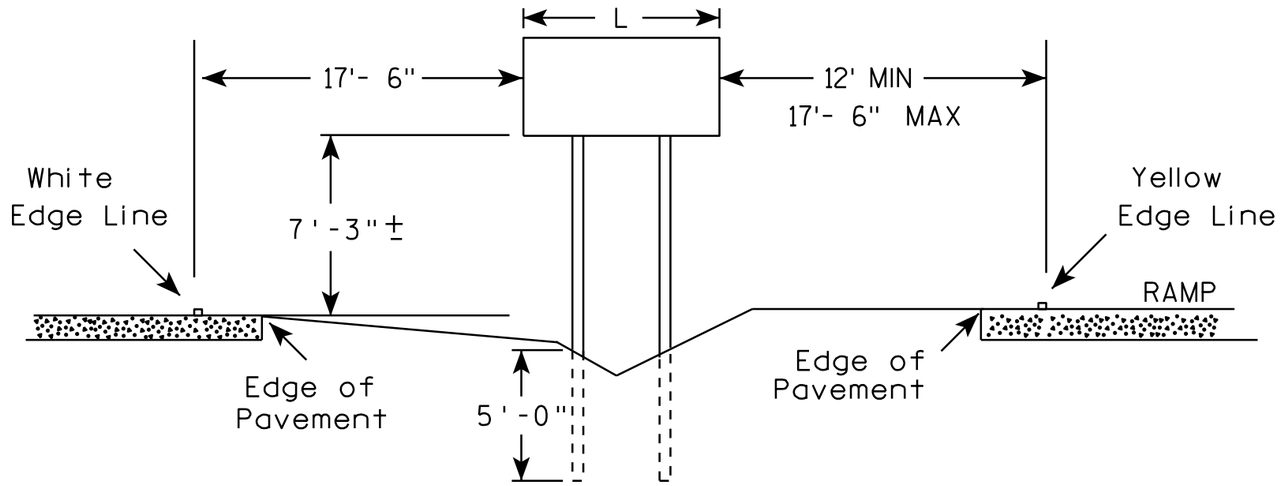
STRUCTURE BTO TYPE I SIGNS

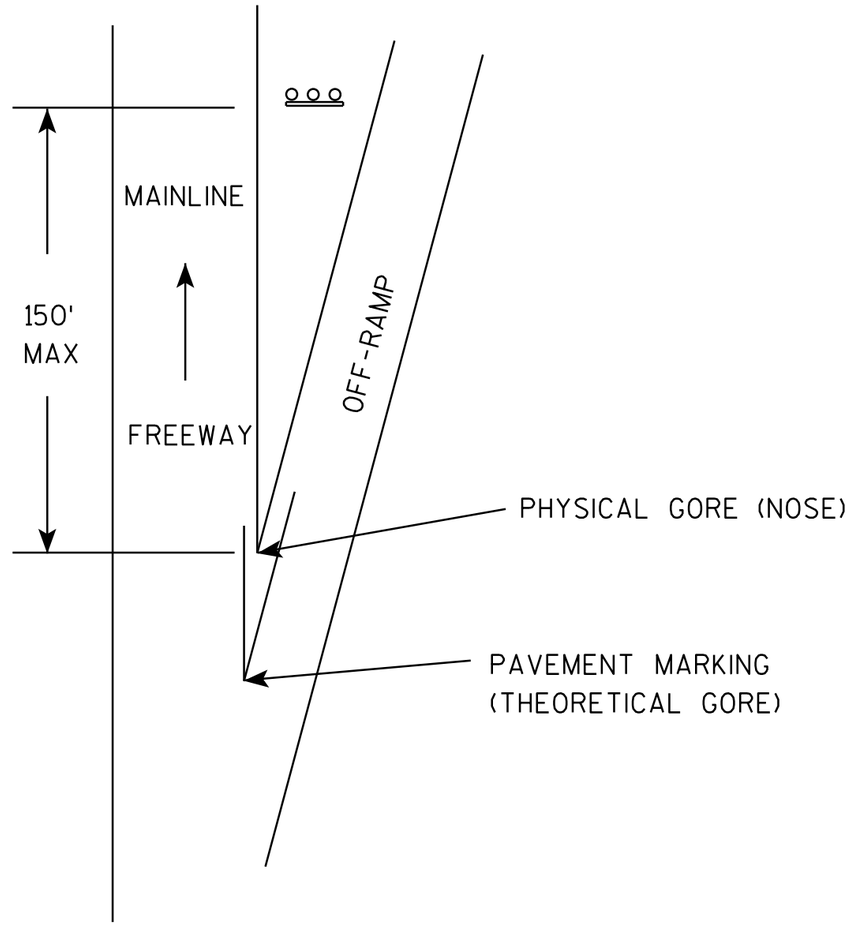
DRAWN BY | PLANS CK'D.

TYPICAL TYPE I SIGN INSTALLATION

SHEET A4-1.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 576 | E





GENERAL NOTES

1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
5. When L is equal to or exceeds 10 feet, use 3 posts as per A4-4.
6. The (∓) tolerance for the mounting height is 3 inches.

7

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TYPICAL INSTALLATION
OF TYPE II SIGNS ON
WOOD POSTS IN GORE

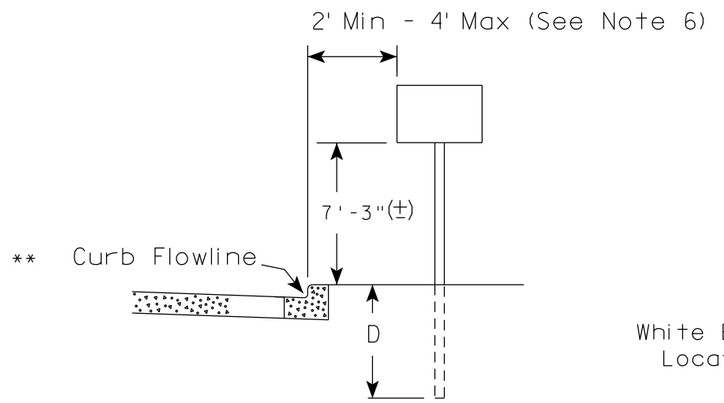
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

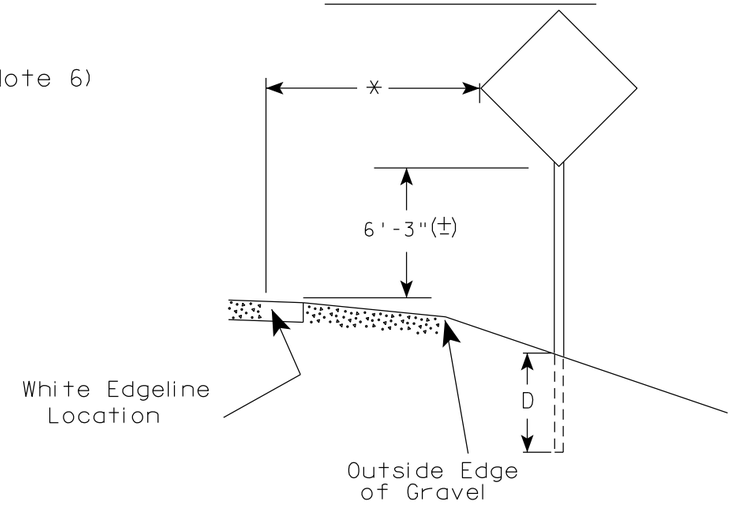
DATE 2/06/14 PLA 577 A4-2.3

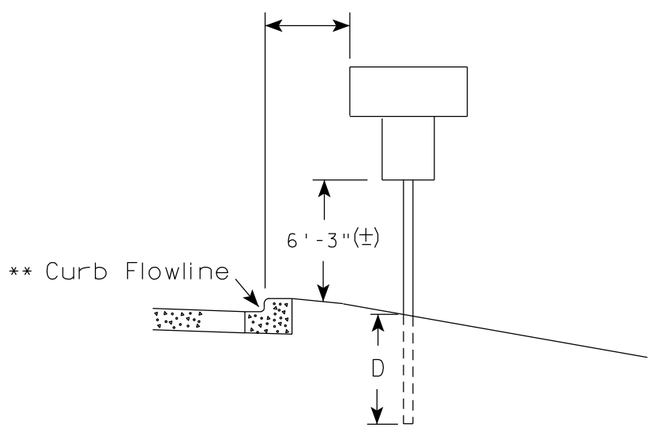
PROJECT NO: | SHEET NO: E

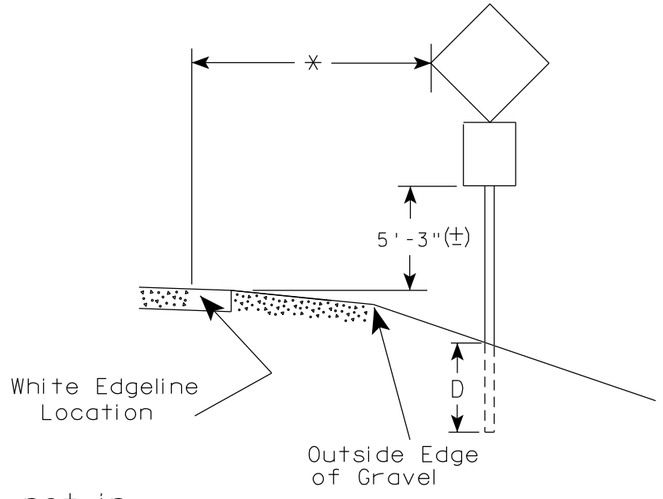
URBAN AREA



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.

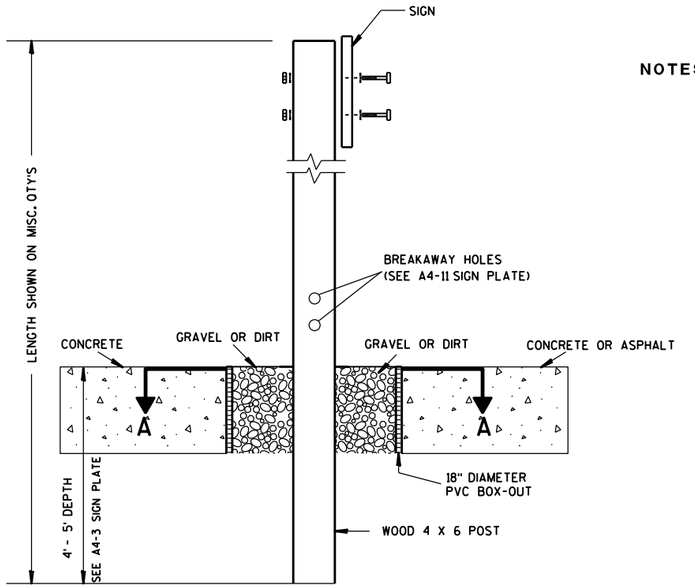
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

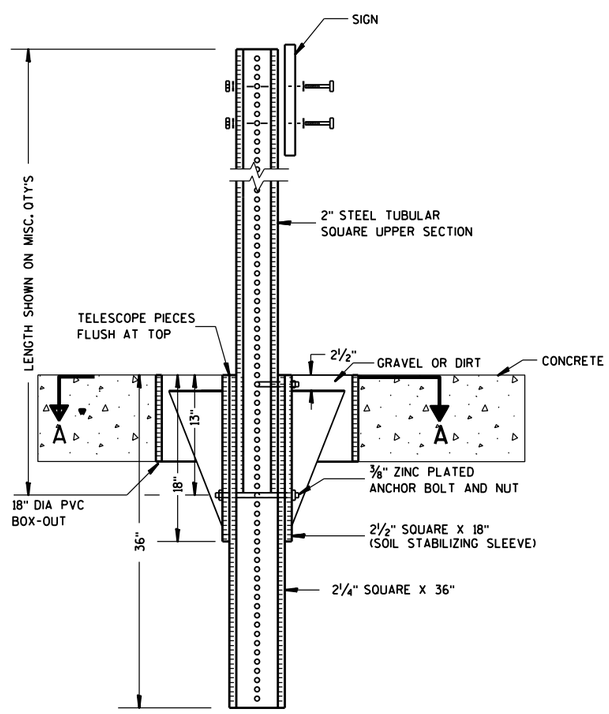
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 578	E



ELEVATION VIEW

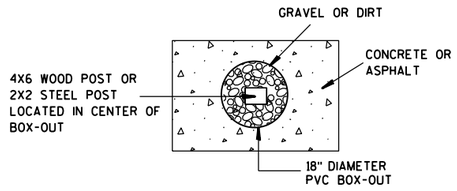
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

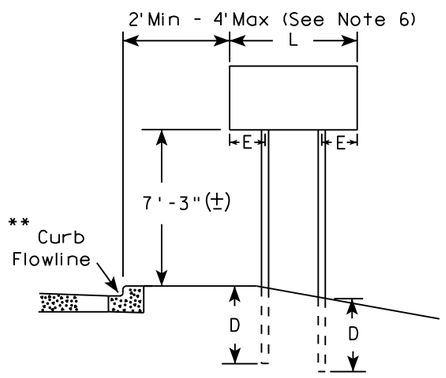
APPROVED Matthew R Rauch
for State Traffic Engineer

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

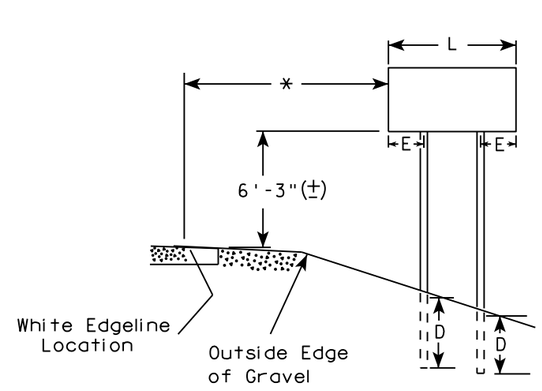
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

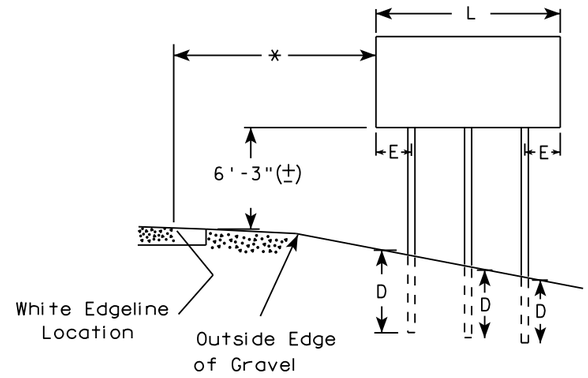
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

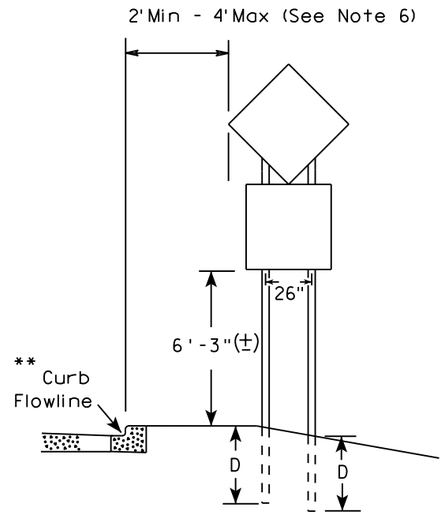
URBAN AREA



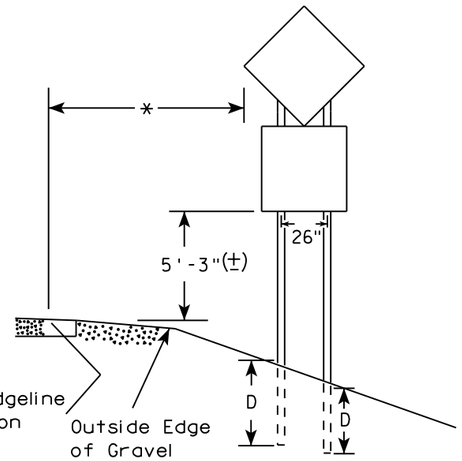
RURAL AREA (See Note 3)







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

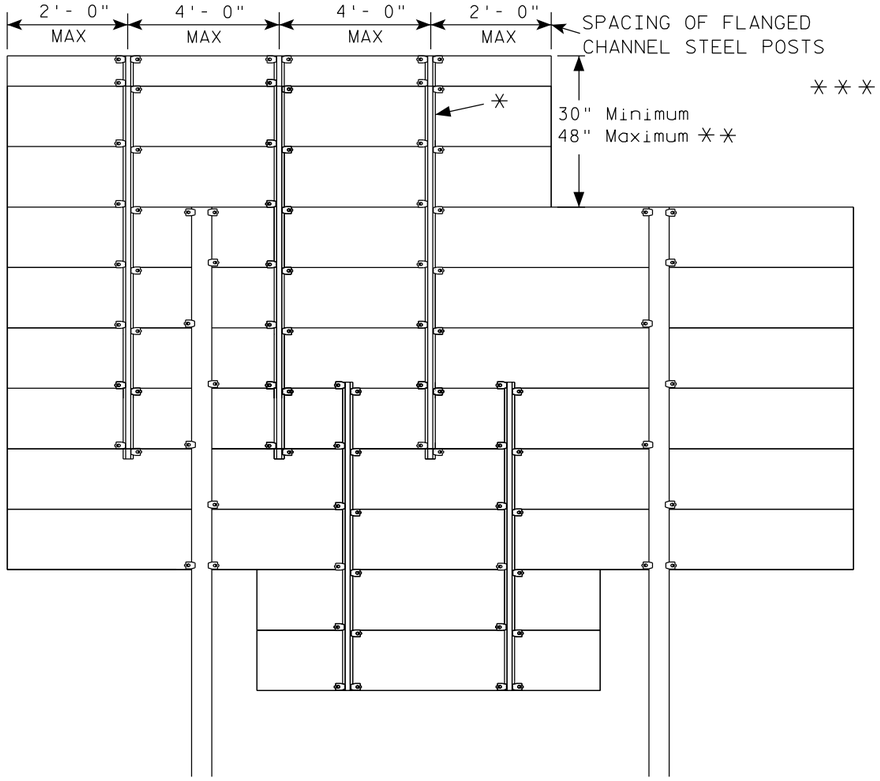
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 580	E

GROUND MOUNTED SIGN



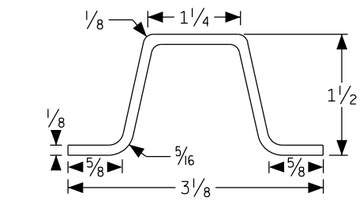
✳=2.00 lb/ft AND 4.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

✳✳=FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

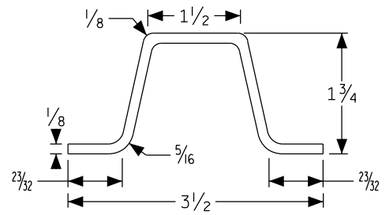
✳✳✳ THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 15 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 15 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAILS

NOT TO SCALE

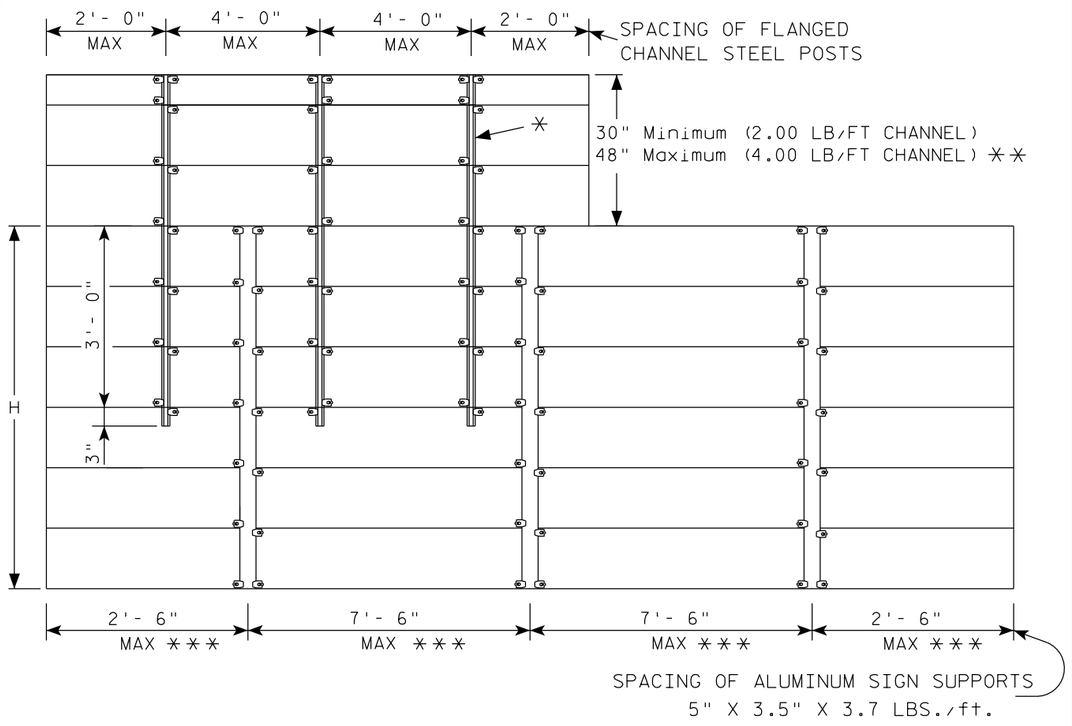


2.00 LB/FT CHANNEL



4.00 LB/FT CHANNEL

SIGN BRIDGE MOUNTED SIGN



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)

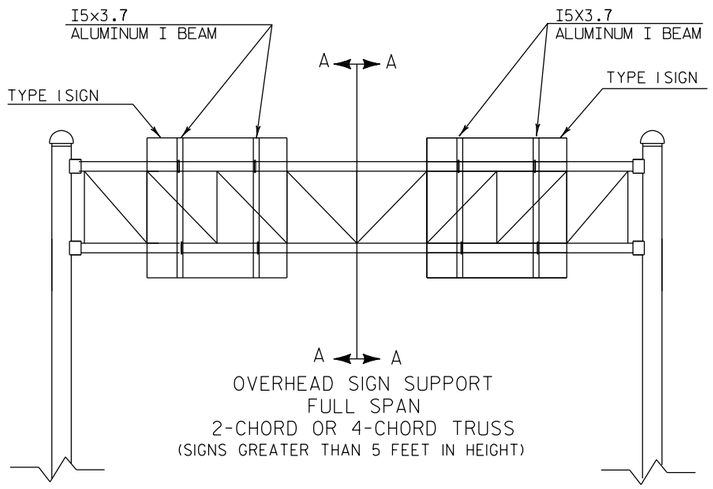
6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

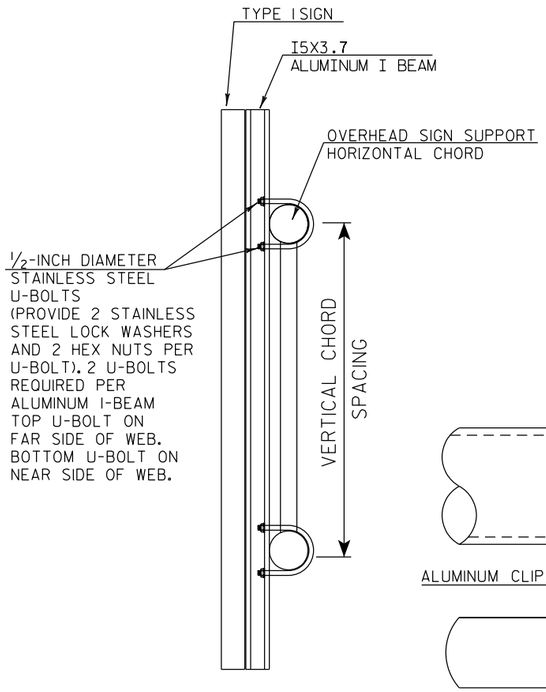
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

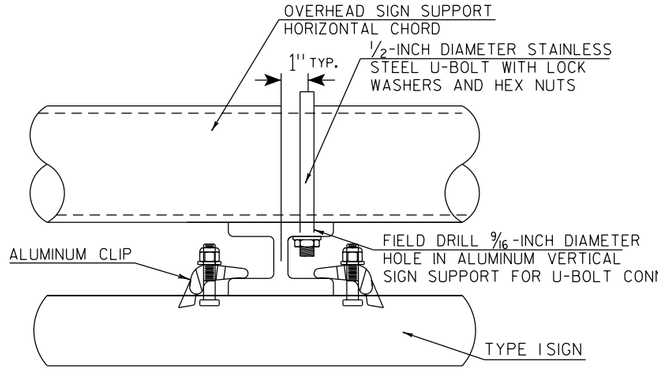
DATE 1/07/20 PLATE NO. A4-6.12



OVERHEAD SIGN SUPPORT
FULL SPAN
2-CHORD OR 4-CHORD TRUSS
(SIGNS GREATER THAN 5 FEET IN HEIGHT)



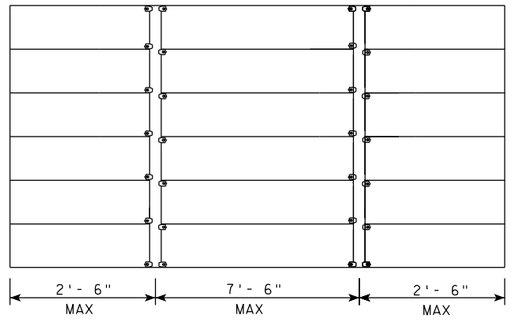
CUT SECTION A-A



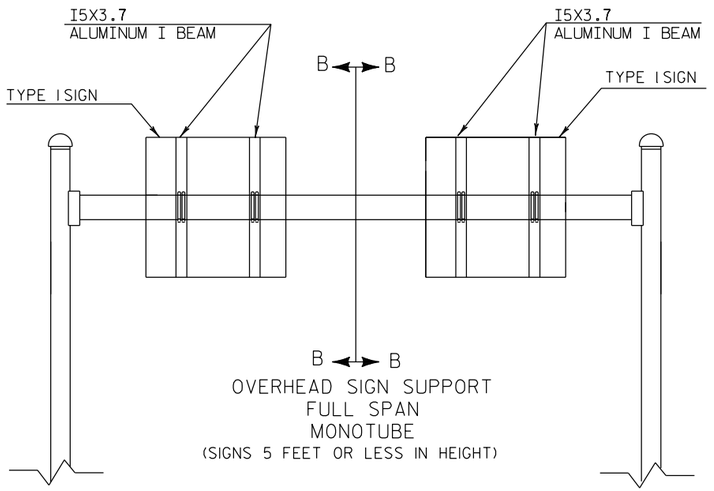
TYPICAL SIGN CONNECTION FOR
2-CHORD OR 4-CHORD TRUSS
PLAN VIEW

GENERAL NOTES

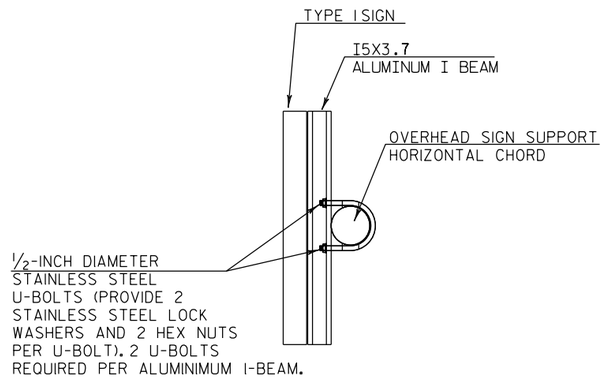
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE 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



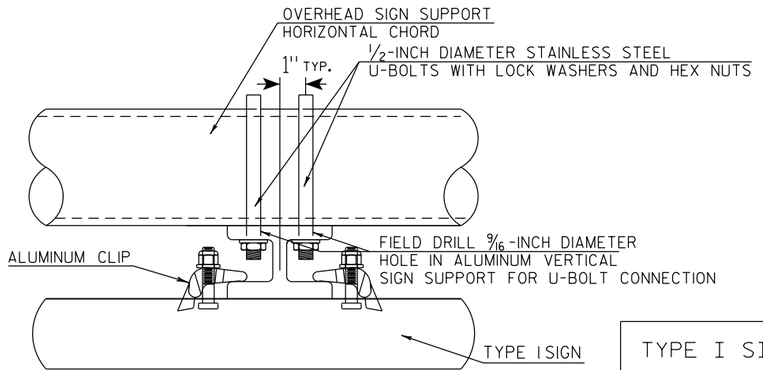
SPACING OF I5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



OVERHEAD SIGN SUPPORT
FULL SPAN
MONOTUBE
(SIGNS 5 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
MONOTUBE
PLAN VIEW

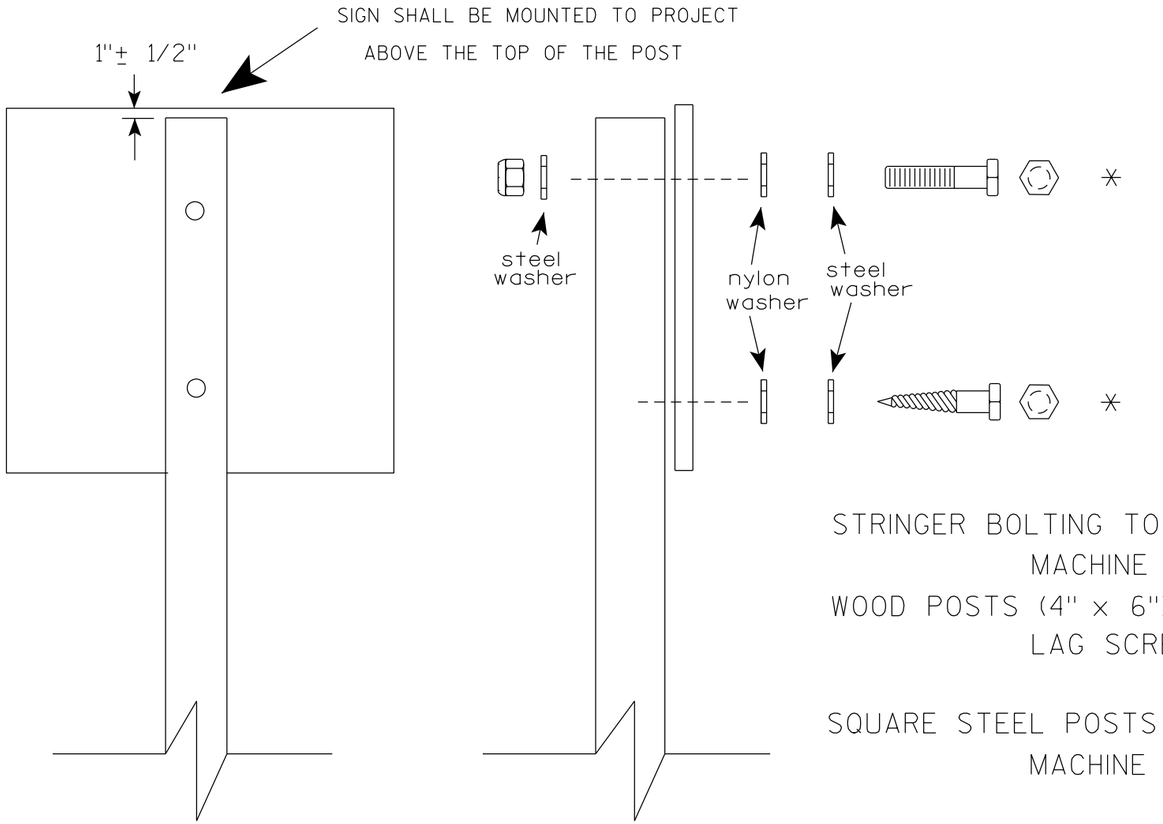
TYPE I SIGN CONNECTION
TO OVERHEAD SIGN SUPPORT

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: 582	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

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

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

SHEET NO: 583 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 01-APRIL-2020 PLOT BY : dotc4c

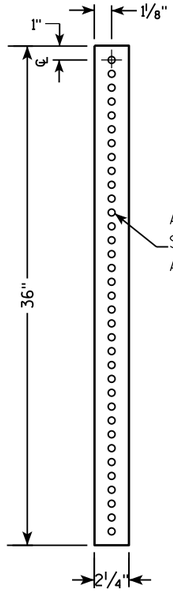
WISDOT/CADDS SHEET 42

7

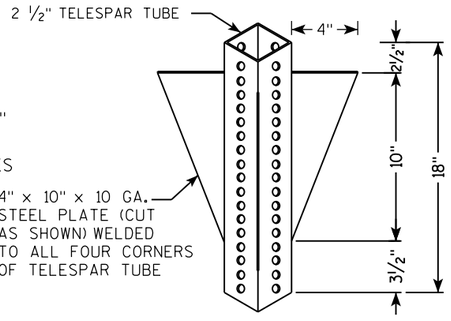
7

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

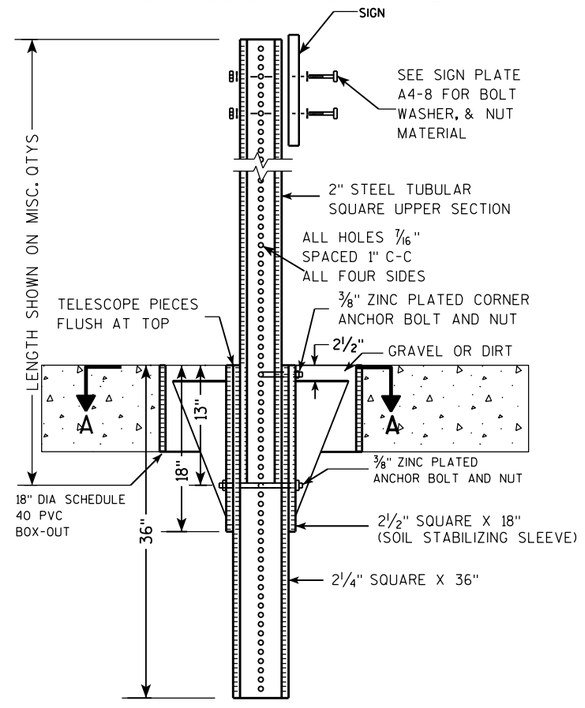
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



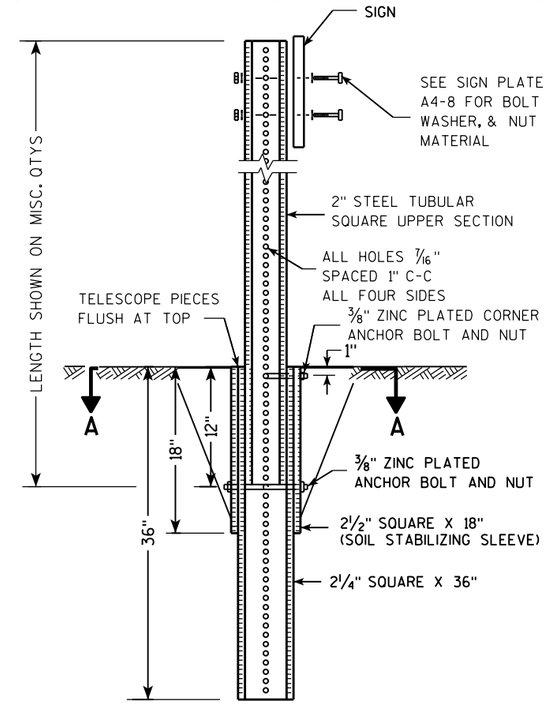
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

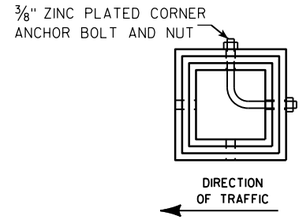


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

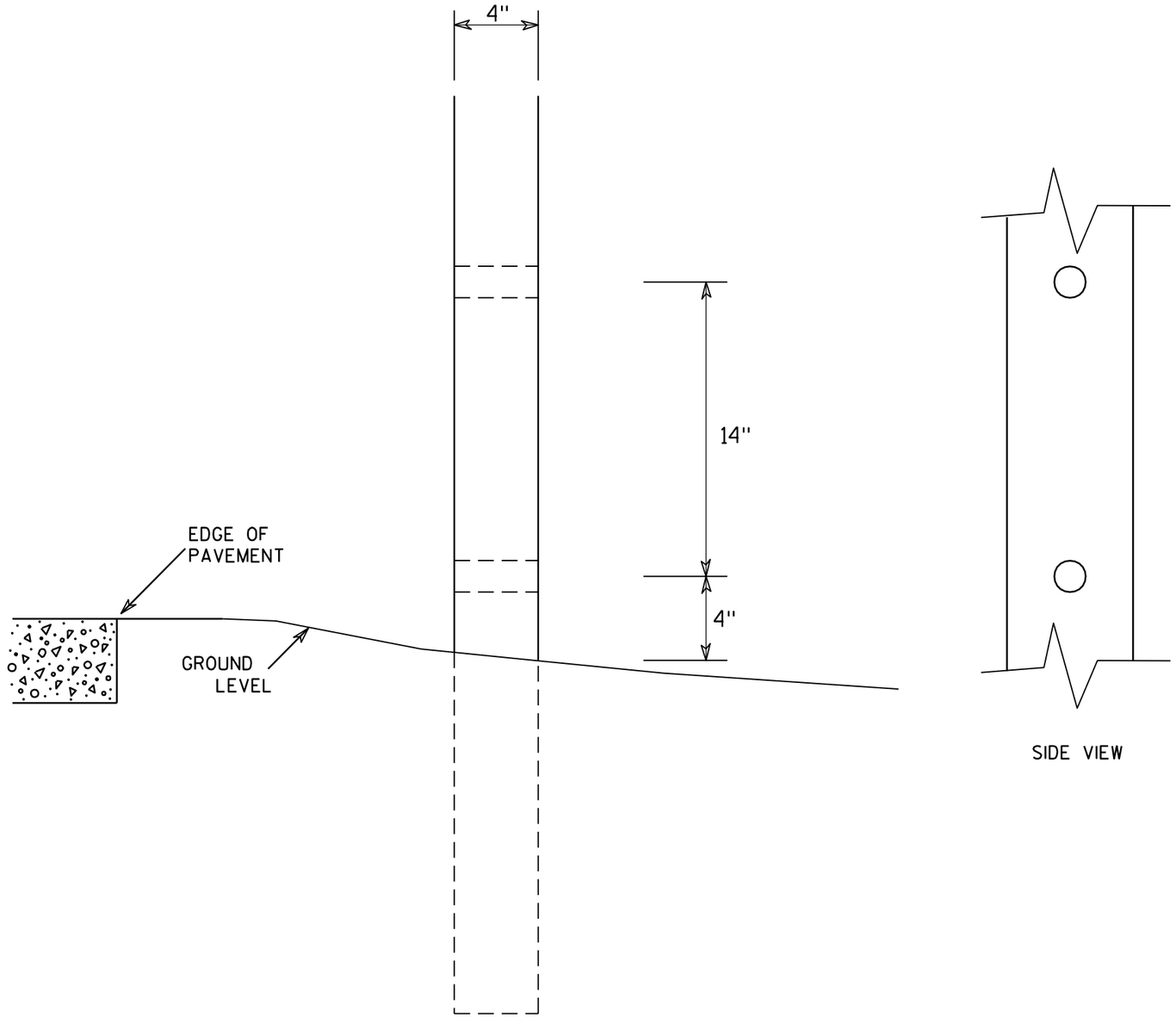
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 584 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

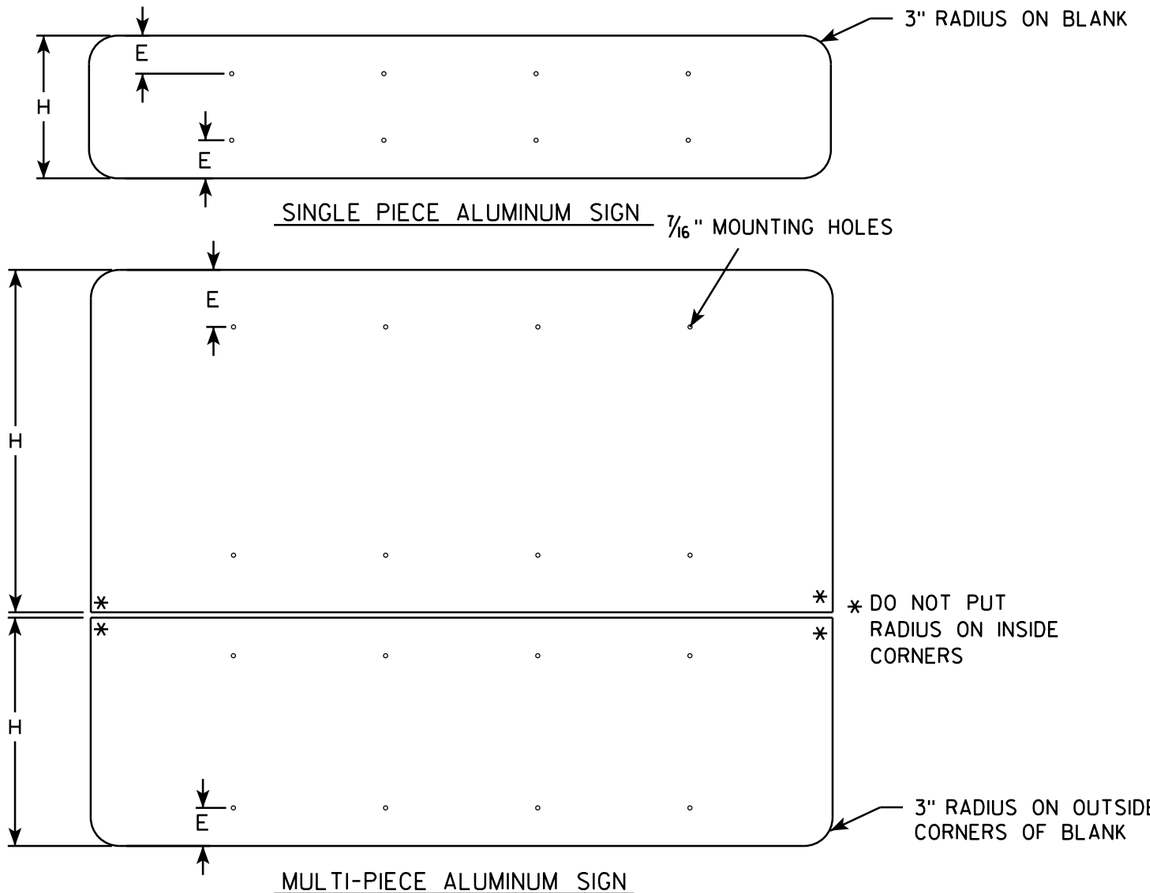
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

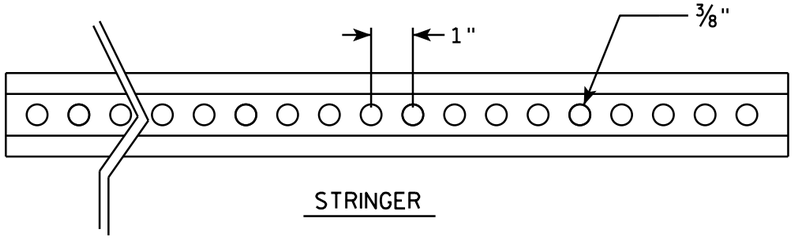
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 585	E



GENERAL NOTES

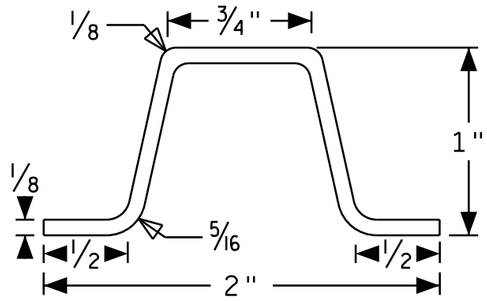
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

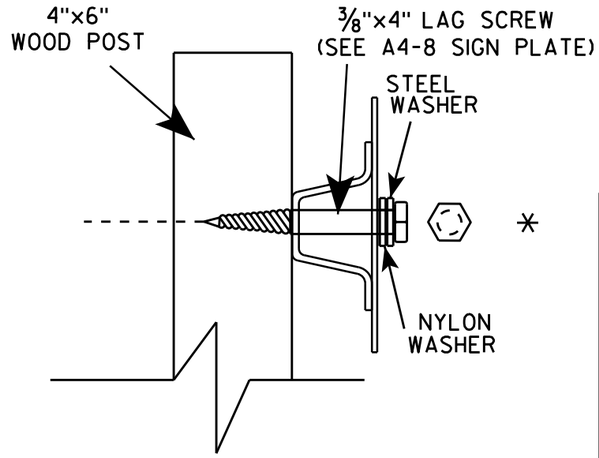


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

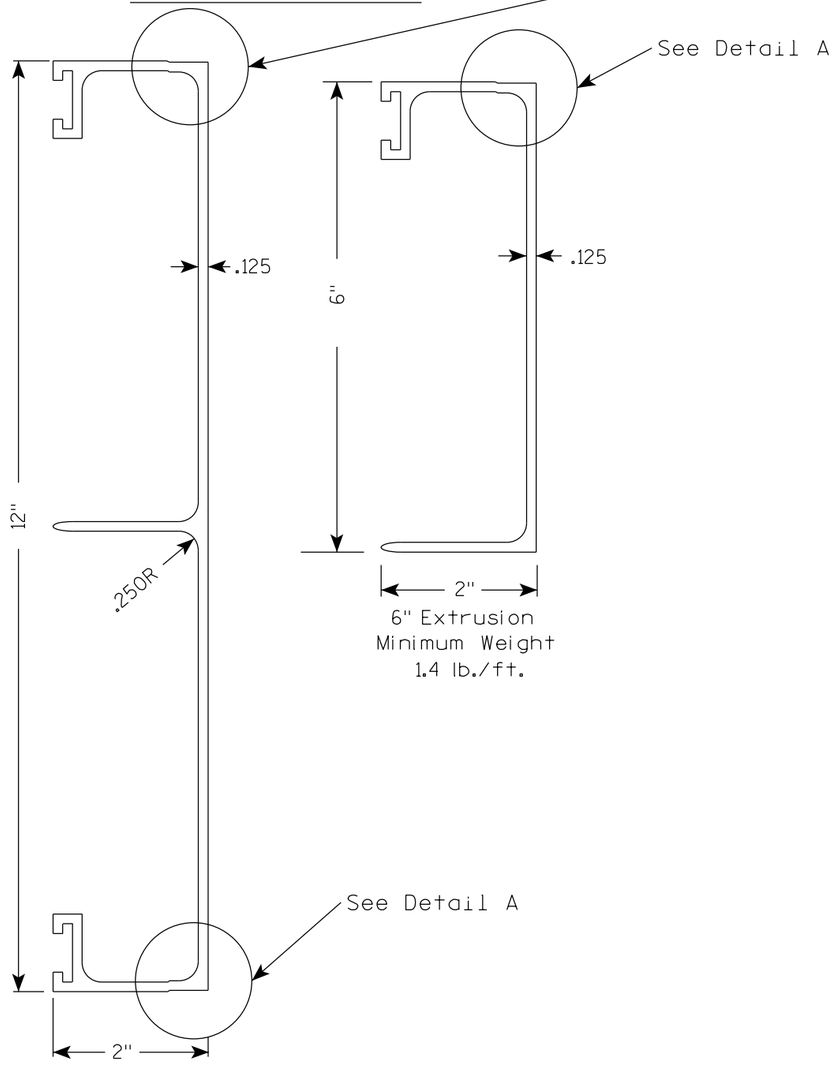
for State Traffic Engineer

DATE 4/26/16 PLATE NO A4-18.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

Extruded Shape

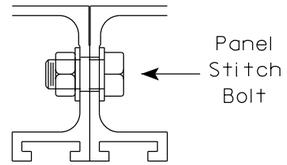


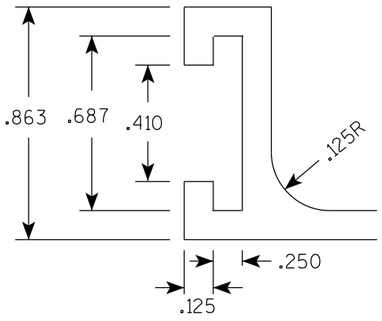
Hardware

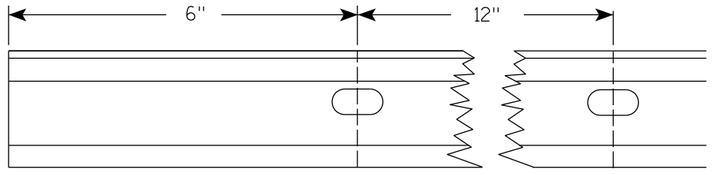
STITCH BOLT, WASHER & NUT

The hardware includes:

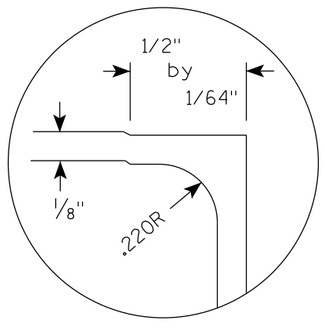
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy







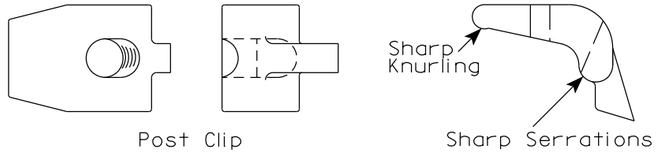
Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

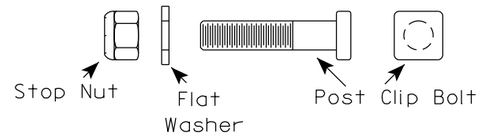


DETAIL A (EDGE WRAP JOINT)

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

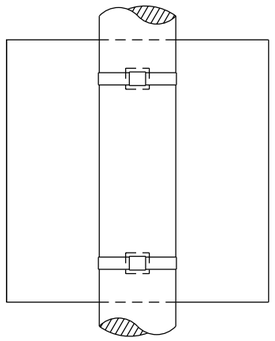
DATE 1/07/20 PLATE NO. A5-2.10

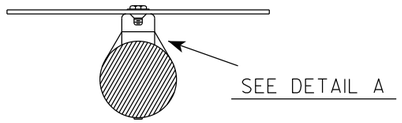
PROJECT NO:

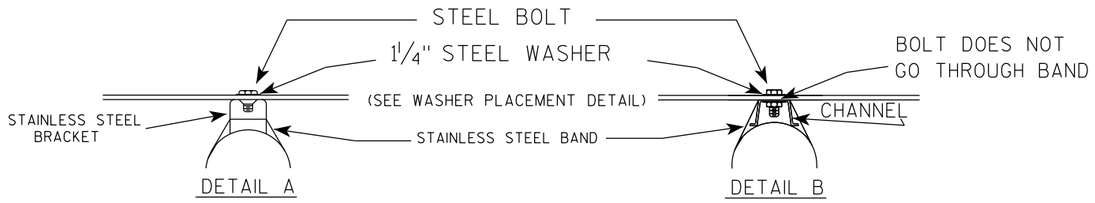
SHEET NO: 587 E

BANDING

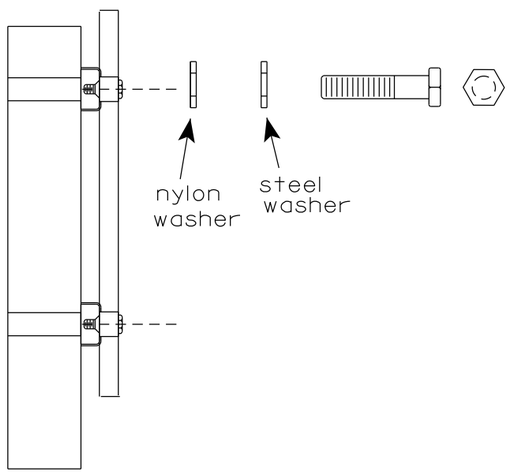
SINGLE SIGN







WASHER PLACEMENT

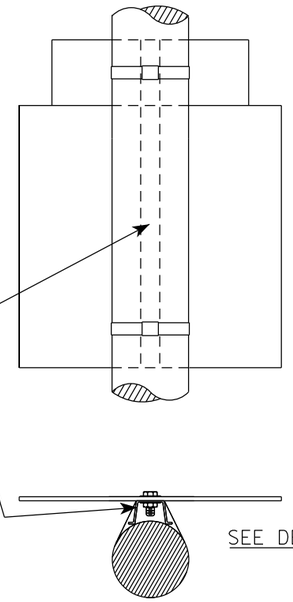


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

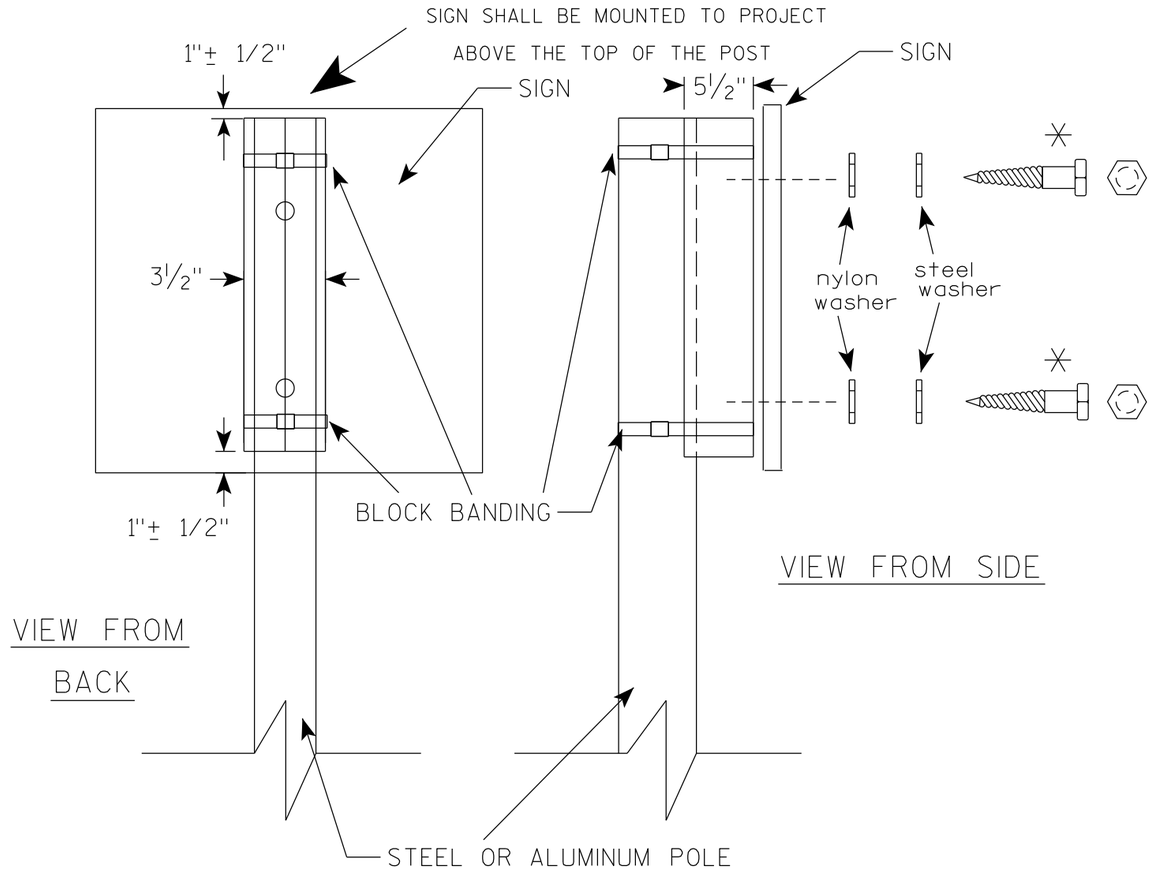
DATE 6/10/19 PLATE NO. A5-9.4

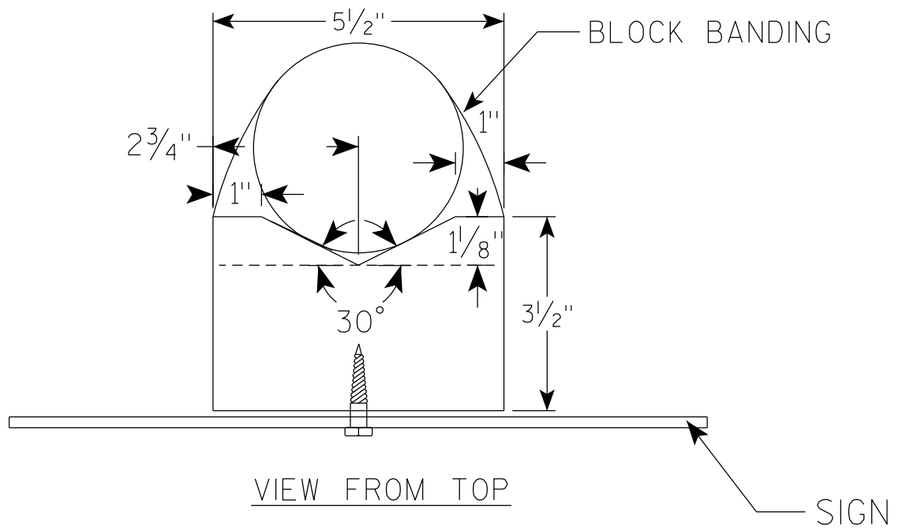
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 588	E

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"

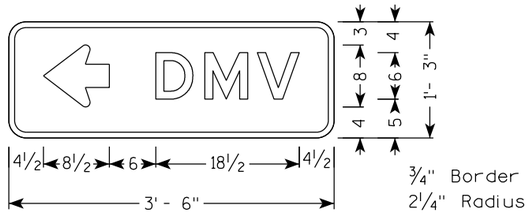
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

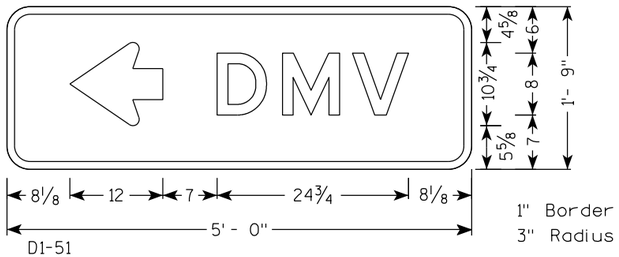
DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO:				SHEET NO: 589	E



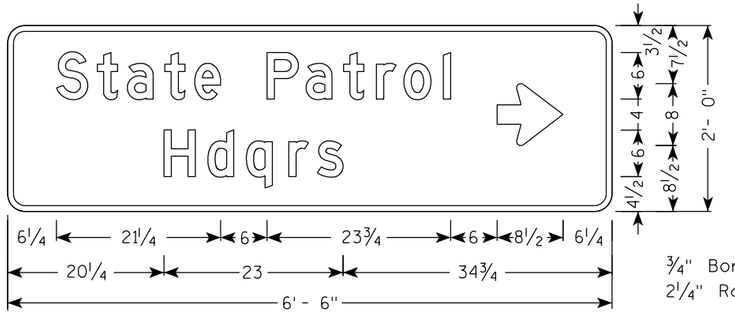
¾" Border
2¼" Radius

D1-51
SERIES E, SIZE 2



1" Border
3" Radius

D1-51
SERIES E, SIZE 3



¾" Border
2¼" Radius

D1-53
SIZE 2

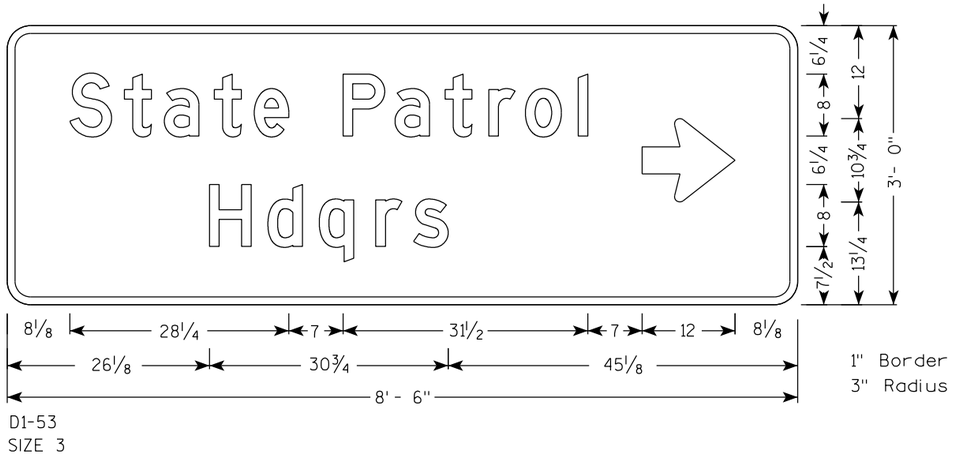
1" Border
3" Radius

*Varies

D1-54
SIZE 3

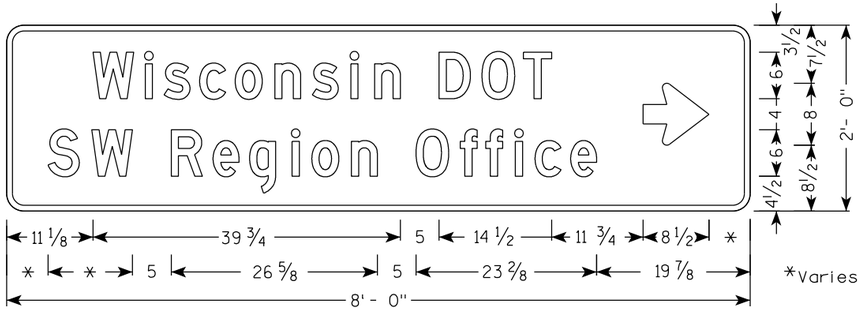
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - D, except as noted.
4. For Region Offices Substitute appropriate message and adjust horizontal spacing as needed.



1" Border
3" Radius

D1-53
SIZE 3



*Varies

¾" Border
2¼" Radius

D1-54
SIZE 2

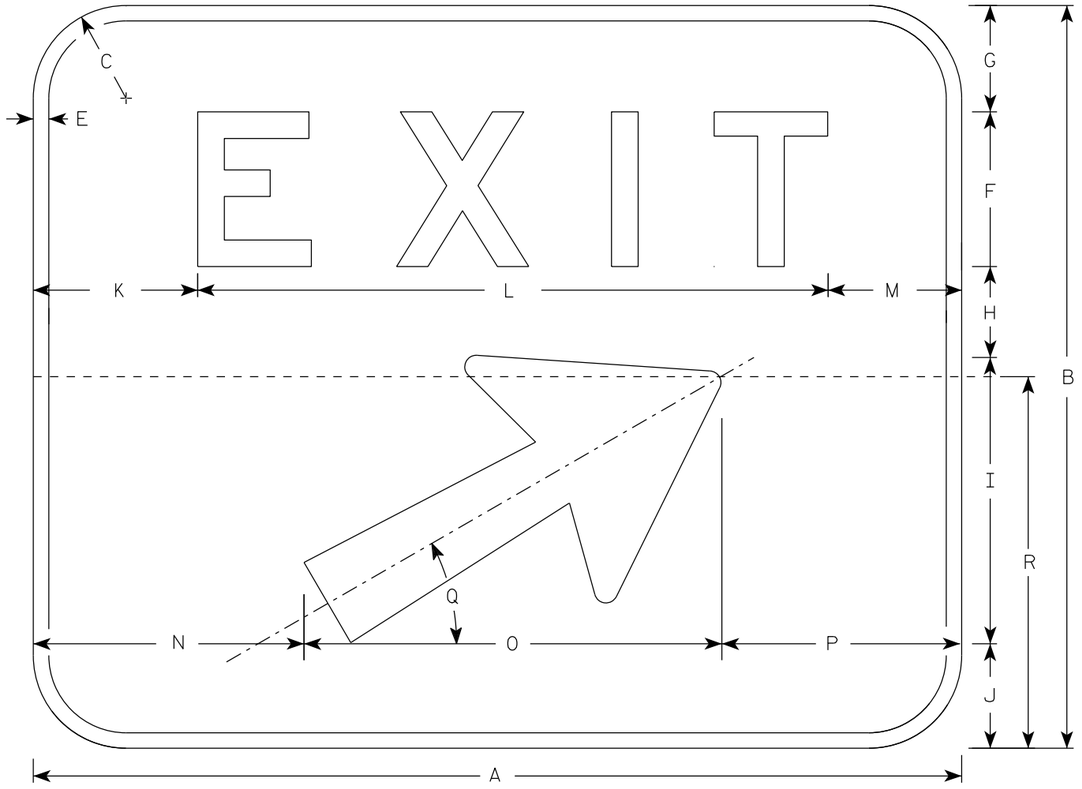
TYPICAL STANDARD
D1-51 THRU D1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/19 PLATE NO. D1-51.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 590	E



E5-1

NOTES

1. Sign is Type II - Type H reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. When Base material for this sign is plywood sign shall be split into two seperate pieces for the 72 x 60 size as shown on the detail by the dashed line (----------).
6. Arrow is Type "A" from sign plate A1-1.
7. As per the Standard Spec's, this sign shall not have a vertical joint.
8. Size 3 E5-1 shall only be used in a Work Zone application with a Temporary Sign Support

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	48	48	6		1	10	6 7/8	5 7/8	18 1/2	6 3/4	8 1/2	31 1/8	8 3/8	11 1/2	27	9 1/2	30°	30									16.0
4	60	48	6		1	10	6 7/8	5 7/8	18 1/2	6 3/4	10 5/8	40 3/4	8 5/8	17 1/2	27	15 1/2	30°	30									20.0
5	72	60	6		1	12	9 3/4	10	18 1/2	9 3/4	13 1/4	48 1/2	10 1/4	23 1/2	27	21 1/2	30°	30									30.0

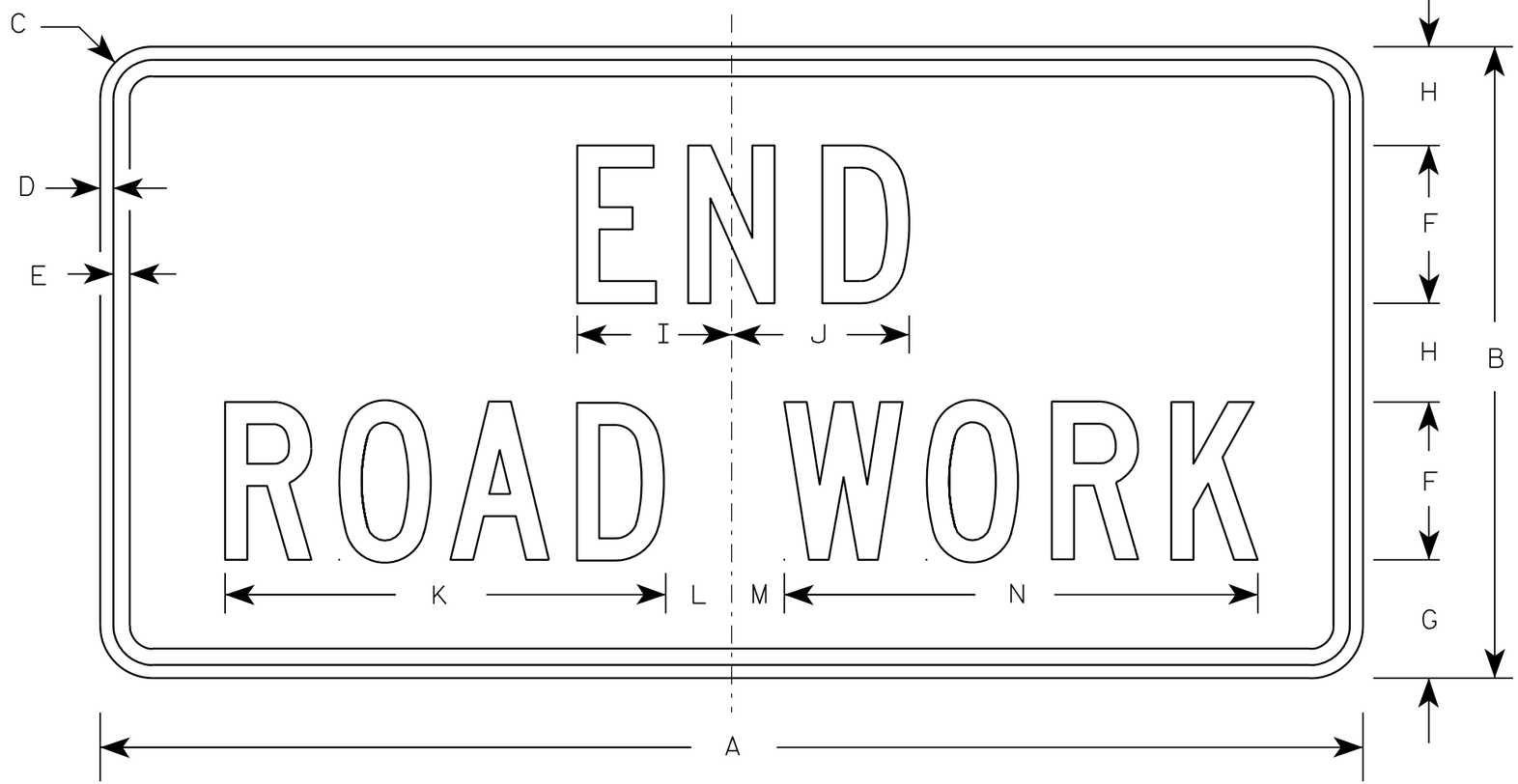
STANDARD SIGN
E5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/26/18 PLATE NO. E5-1.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 591 | 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: 592	E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - E
4. Material shall be .040 aluminmum

G20-60

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	108	24				12	6	14 7/8	78 1/4																		18.0
5																											

STANDARD SIGN
G20-60

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/15 PLATE NO G20-60.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G2060.DGN PLOT DATE : 13-MAY-2015 08:46 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 20.431338:1.000000
WISDOT/CADDS SHEET 42

7

7

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - E

G20-61

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	120	30	6		2	12	9	21	78 1/4	20 3/4																	25.0
5																											

STANDARD SIGN
G20-61

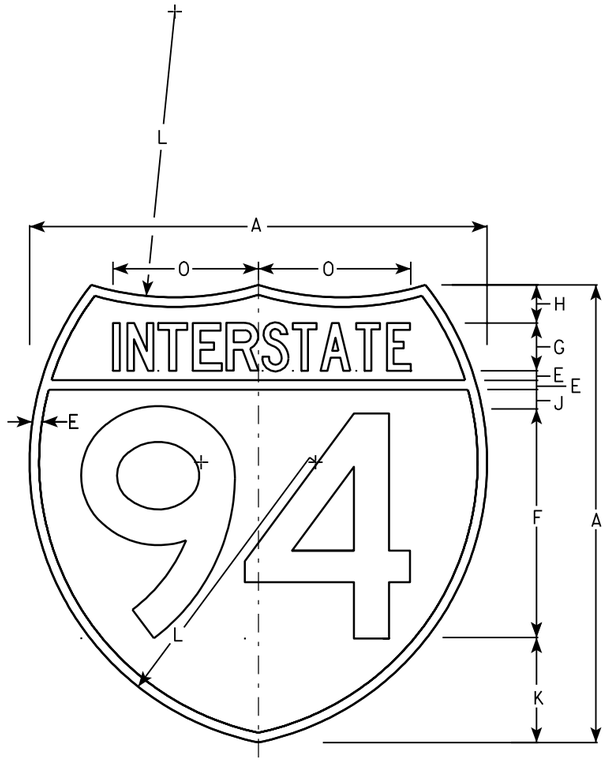
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

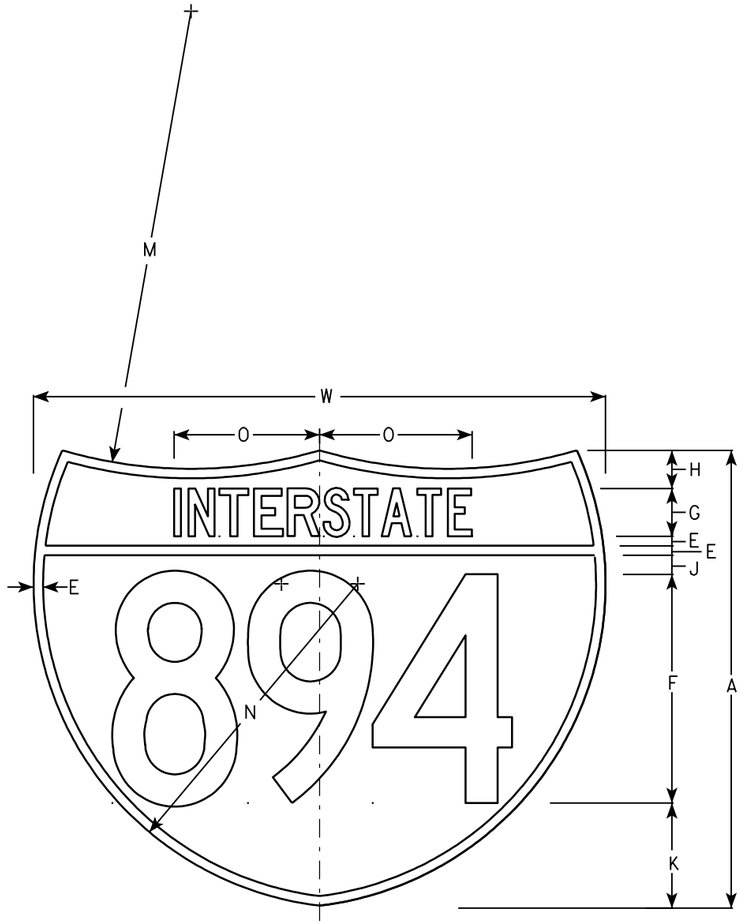
DATE 5/07/15 PLATE NO G20-61.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\G2061.DGN PLOT DATE : 07-MAY-2015 13:47 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 20.431338:1.000000
WISDOT/CADDS SHEET 42



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

7

7

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 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	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

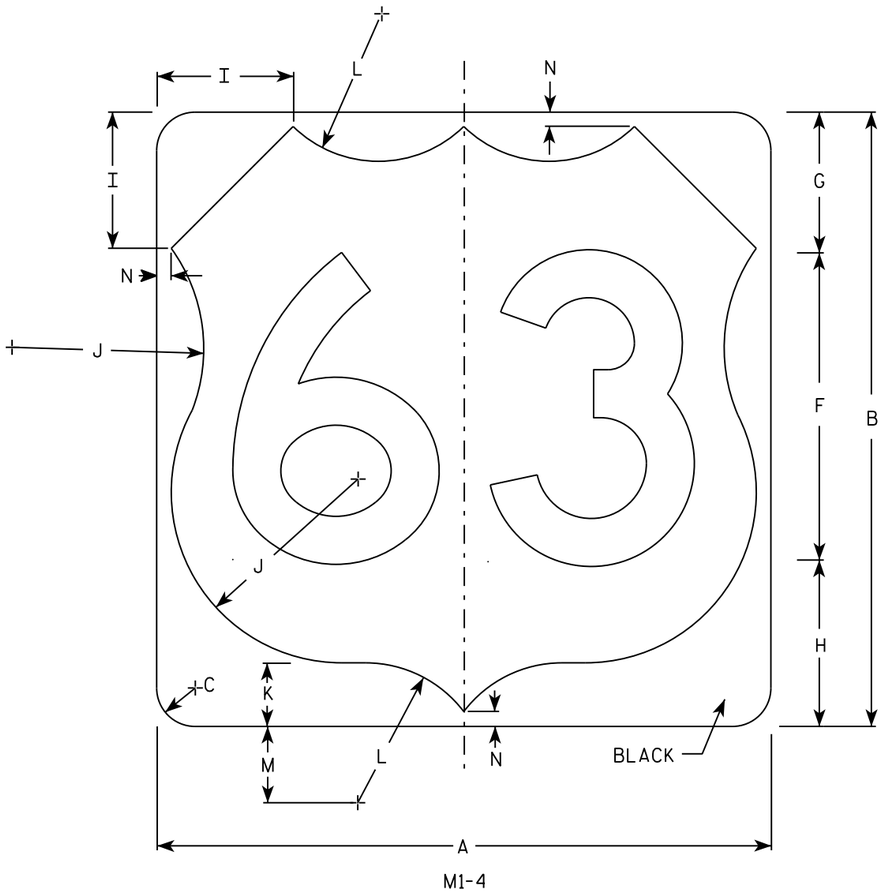
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

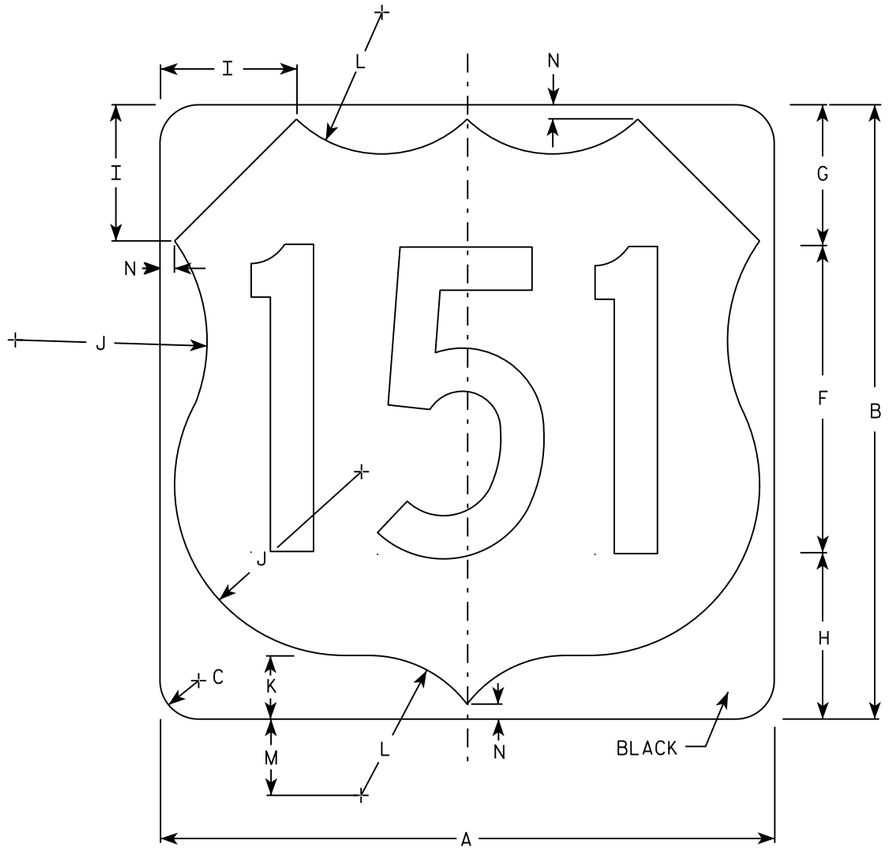
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 595	E

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.



M1-4



M1-4

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area Sq. ft.
1																											
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0

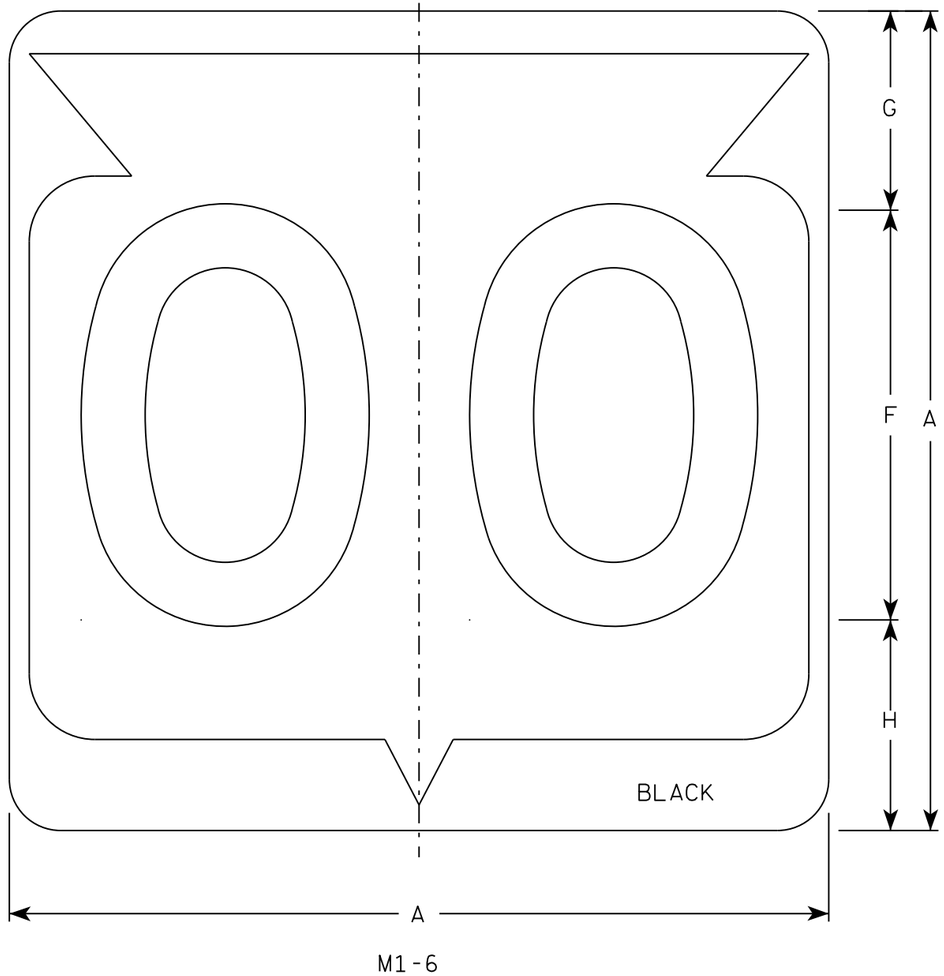
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-4.10

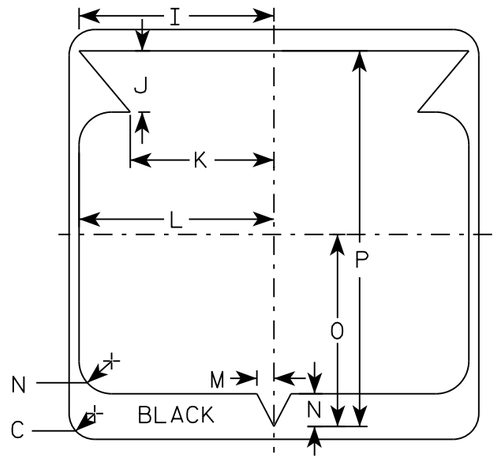
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 596 | E



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

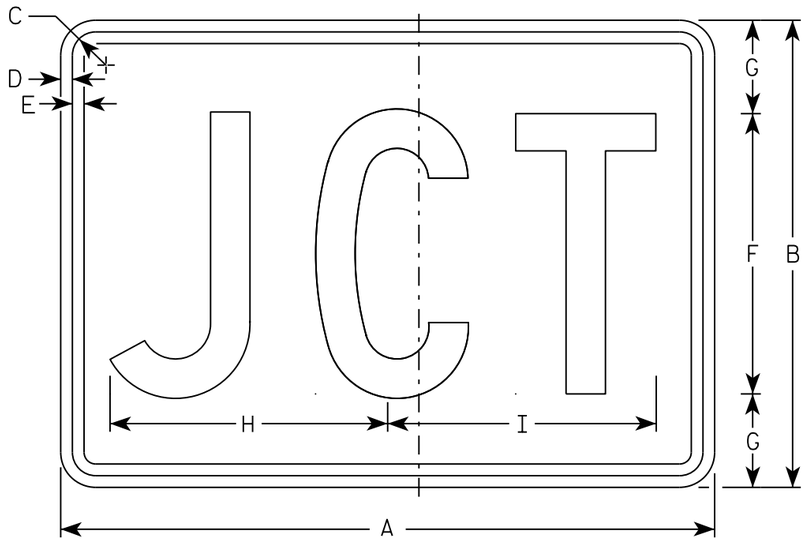
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

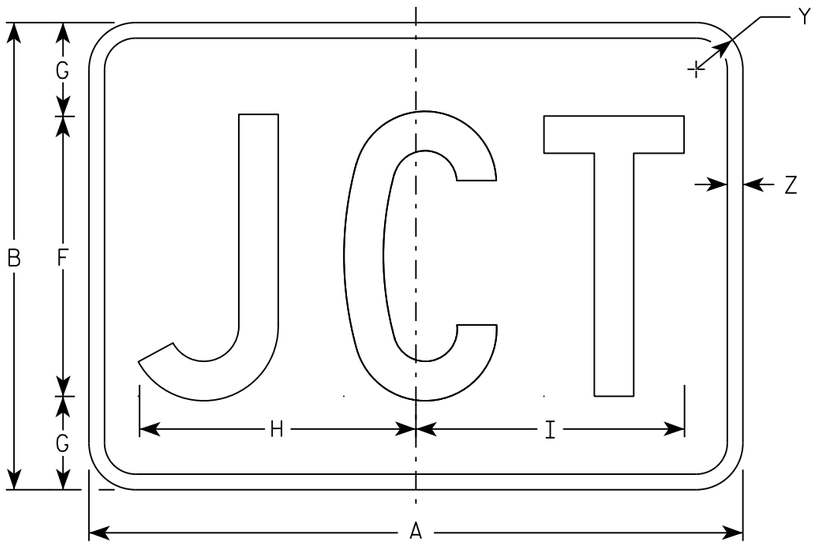
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 597	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is 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. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

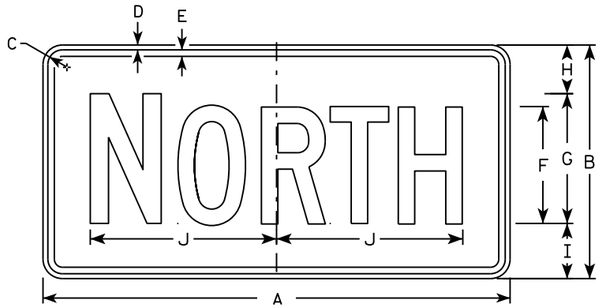
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

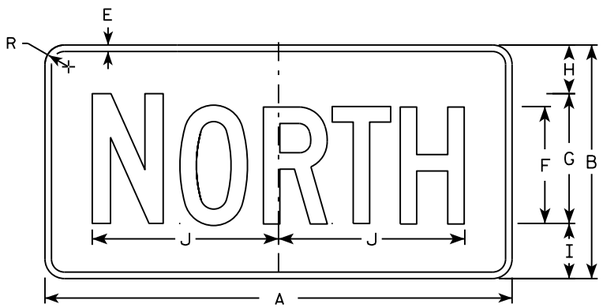
DATE 10/15/15 PLATE 598 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



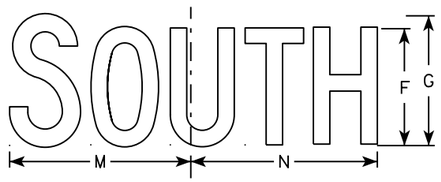
M3-1
MM3-1
MP3-1



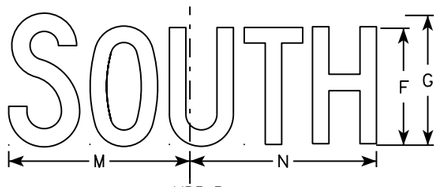
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

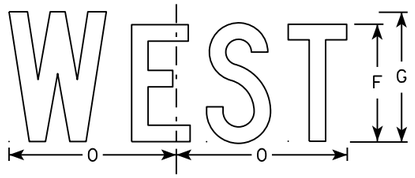
MB3-2
MK3-2
MN3-2



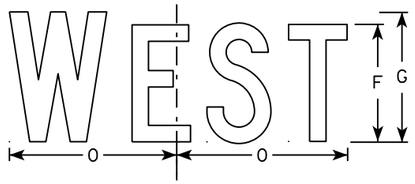
M3-3
MM3-3
MP3-3



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

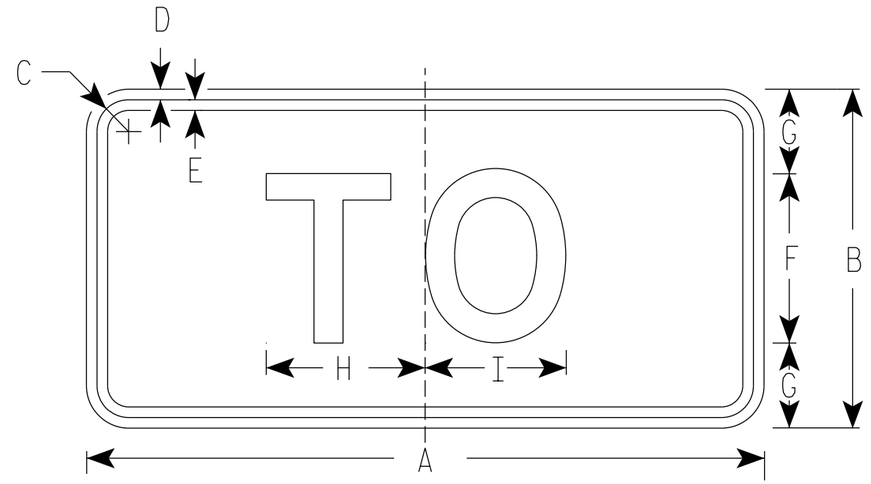
APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

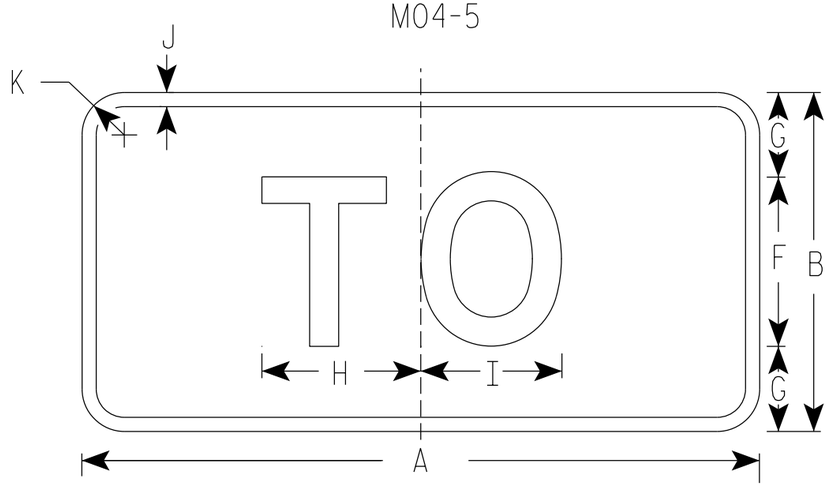
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

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

7



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

   M04-5 Background - Orange Type F Reflective
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

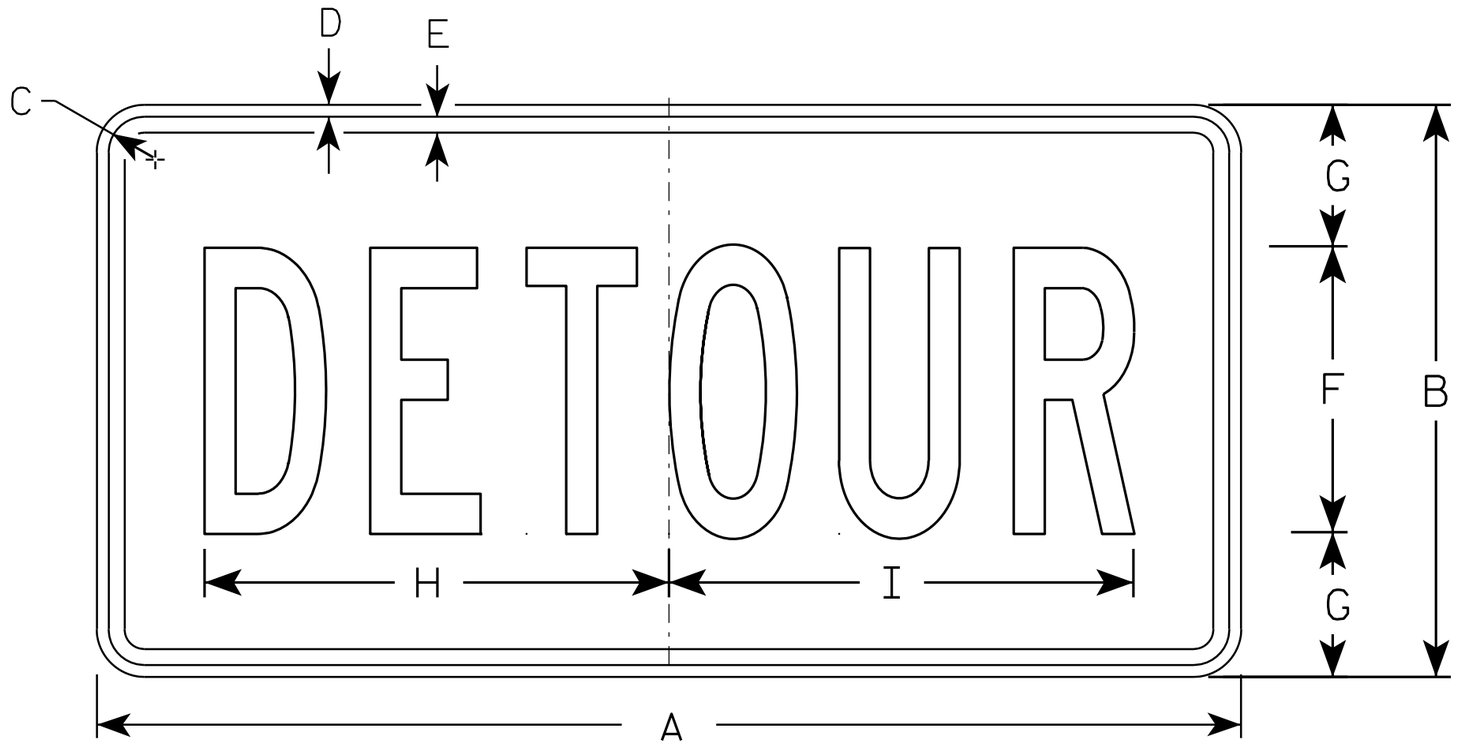
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/7/19 PLATE NO. M4-5.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 600 | E



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																											

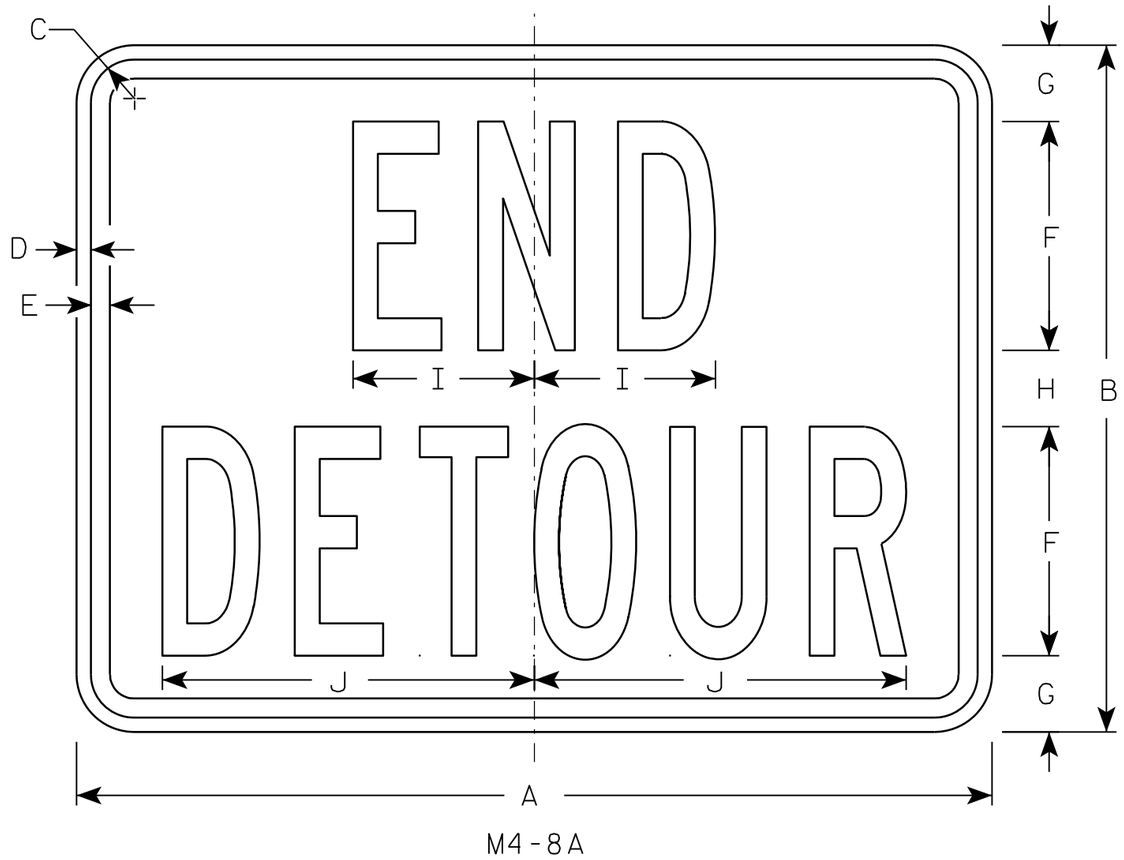
STANDARD SIGN
M4-8

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: 601	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																											

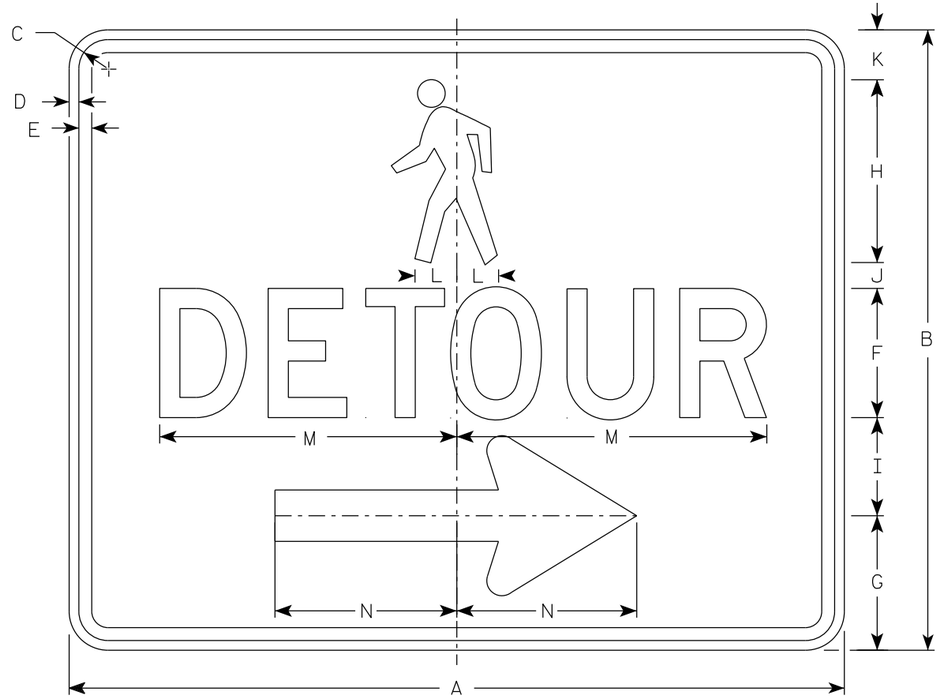
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

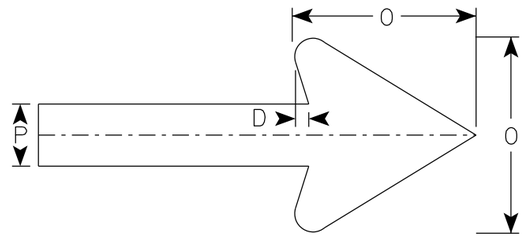
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 602	E



M4-9BR

NOTES

1. Sign is Type II-Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9BL is the same as M4-9BR except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	5 1/4	7 1/8	3 3/4	1	1 1/8	1 5/8	11 3/4	7	6	2											5.00
3																											
4																											
5																											

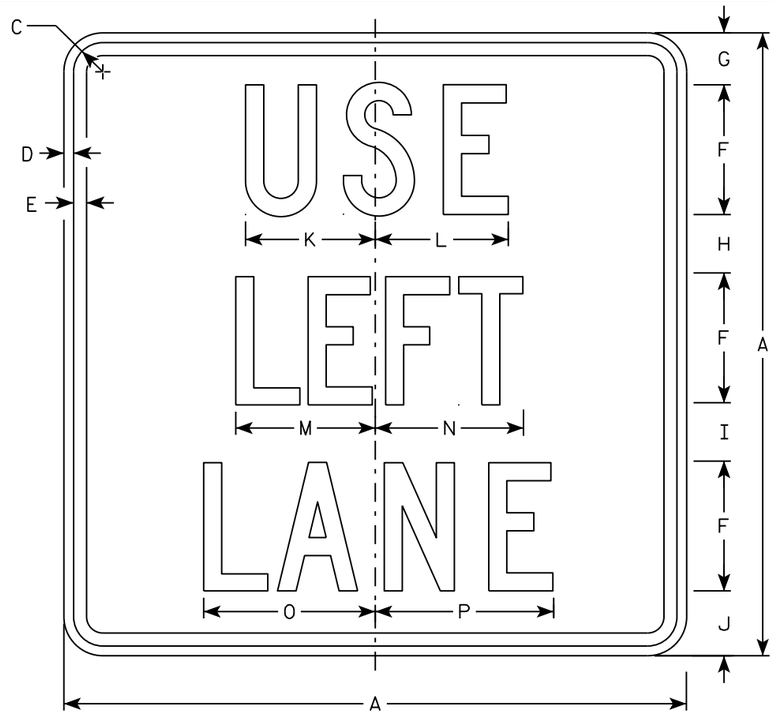
STANDARD SIGN
M4-9B L&R

WISCONSIN DEPT OF TRANSPORTATION

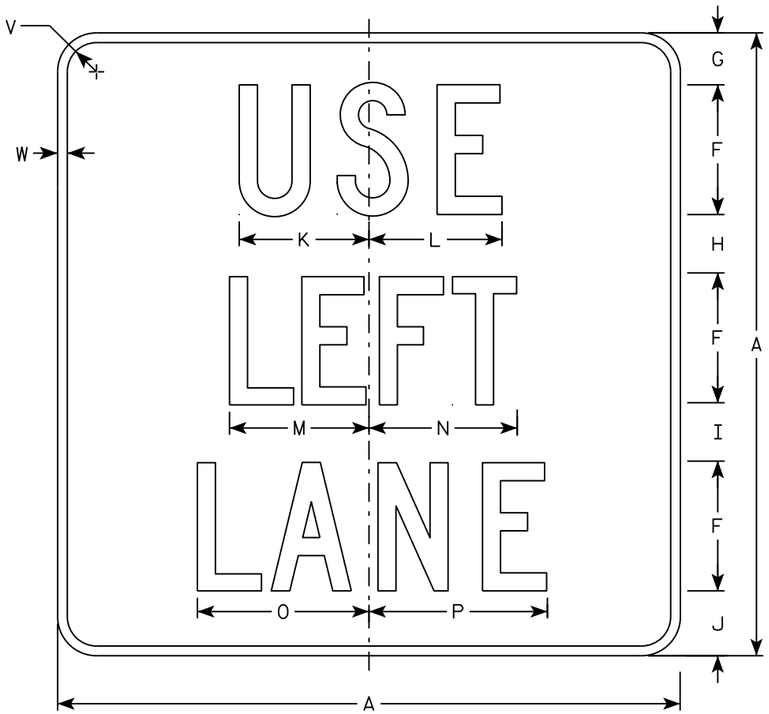
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 7/1/19 PLATE NO. M4-9B.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 603 | E



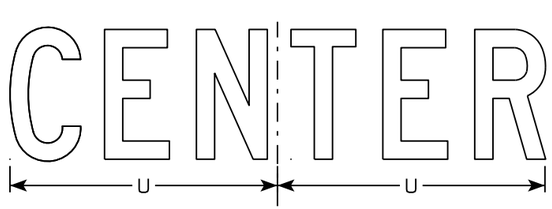
M4-20L



MB4-20L

M4-20L
MM4-20L
M04-20L
MP4-20L

MB4-20L
MK4-20L
MN4-20L
MR4-20L



M4-20C
MB4-20C
MK4-20C
MM4-20C
MN4-20C
M04-20C
MP4-20C
MR4-20C

M4-20R
MB4-20R
MK4-20R
MM4-20R
MN4-20R
M04-20R
MP4-20R
MR4-20R

NOTES

1. Sign is Type II - Type H except as Shown
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. M4-20 Background - White
   Message - Black
   MB4-20 Background - Blue
   Message - White
   MK4-20 Background - Green
   Message - White
   MM4-20 Background - White
   Message - Green
   MN4-20 Background - Brown
   Message - White
   M04-20 Background - Orange - Type F Reflective
   Message - Black
   MP4-20 Background - White
   Message - Blue
   MR4-20 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/8	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	5 3/8	5 3/4	6 5/8	6 7/8			7	7 5/8	10 1/4	1 1/2	1/2				4.0
3	36		1 5/8	5/8	3/4	7	4	3	3 1/2	4 1/2	7 1/2	7 3/4	8	8 5/8	9 7/8	10 1/4			10 3/8	11 3/8	14 3/8	1 7/8	1/2				9.0
4																											
5																											

STANDARD SIGN
M4-20

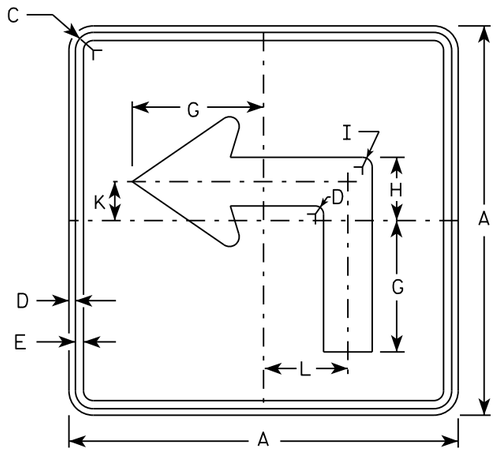
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

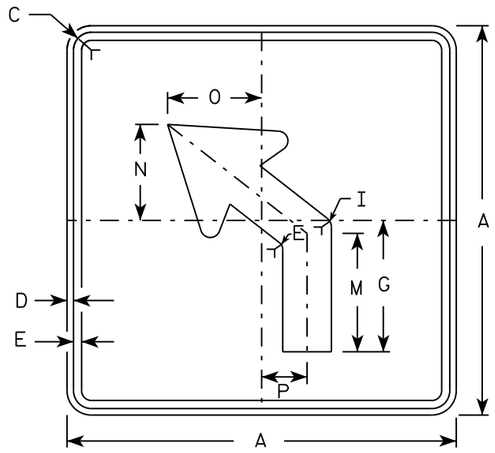
DATE 10/15/15 PLATE NO M4-20.5
604

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

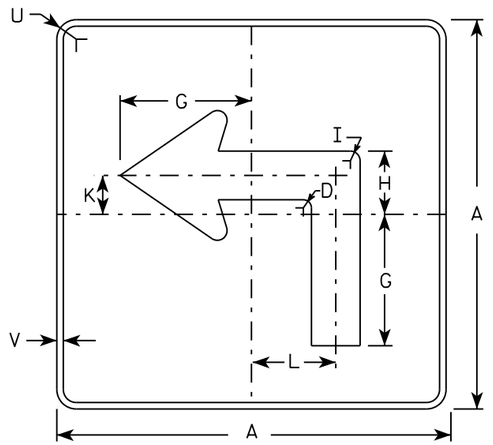
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M420.DGN PLOT DATE : 01-DEC-2015 18:03 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.837526:1.000000



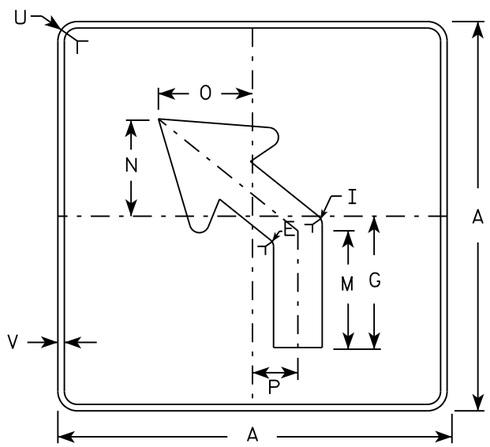
M5-1L
MM5-1L
MO5-1L
MP5-1L



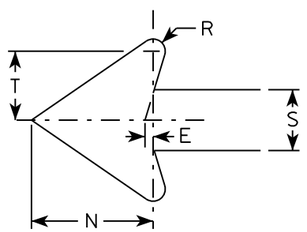
M5-2L
MM5-2L
MO5-2L
MP5-2L



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

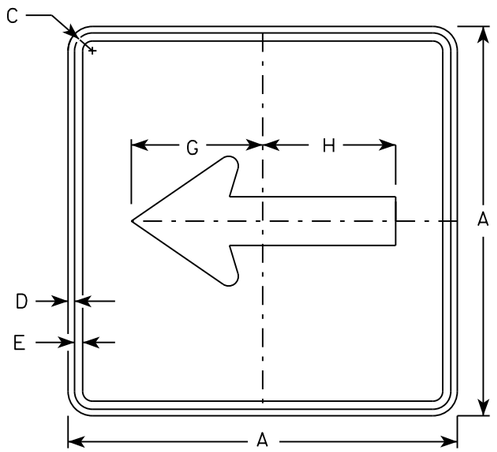
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

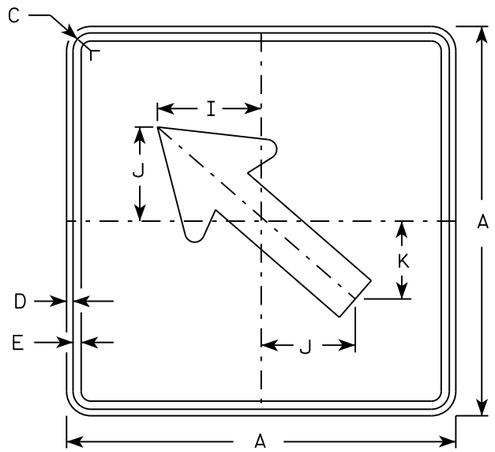
DATE 10/15/15 PLATE NO. M5-1.13

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



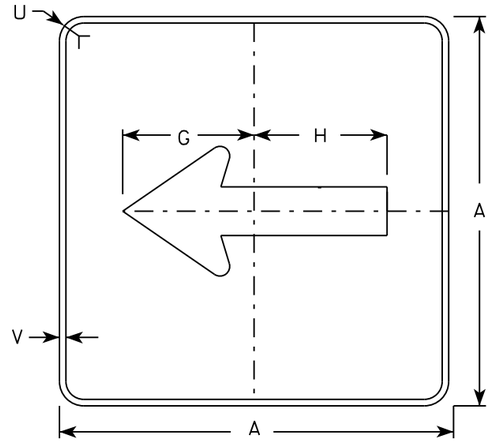
M6-1
MM6-1
MO6-1
MP6-1



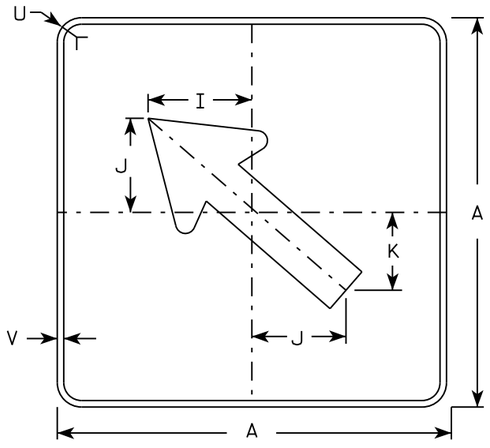
M6-2
MM6-2
MO6-2
MP6-2

NOTES

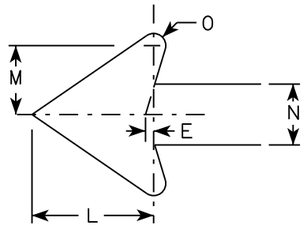
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

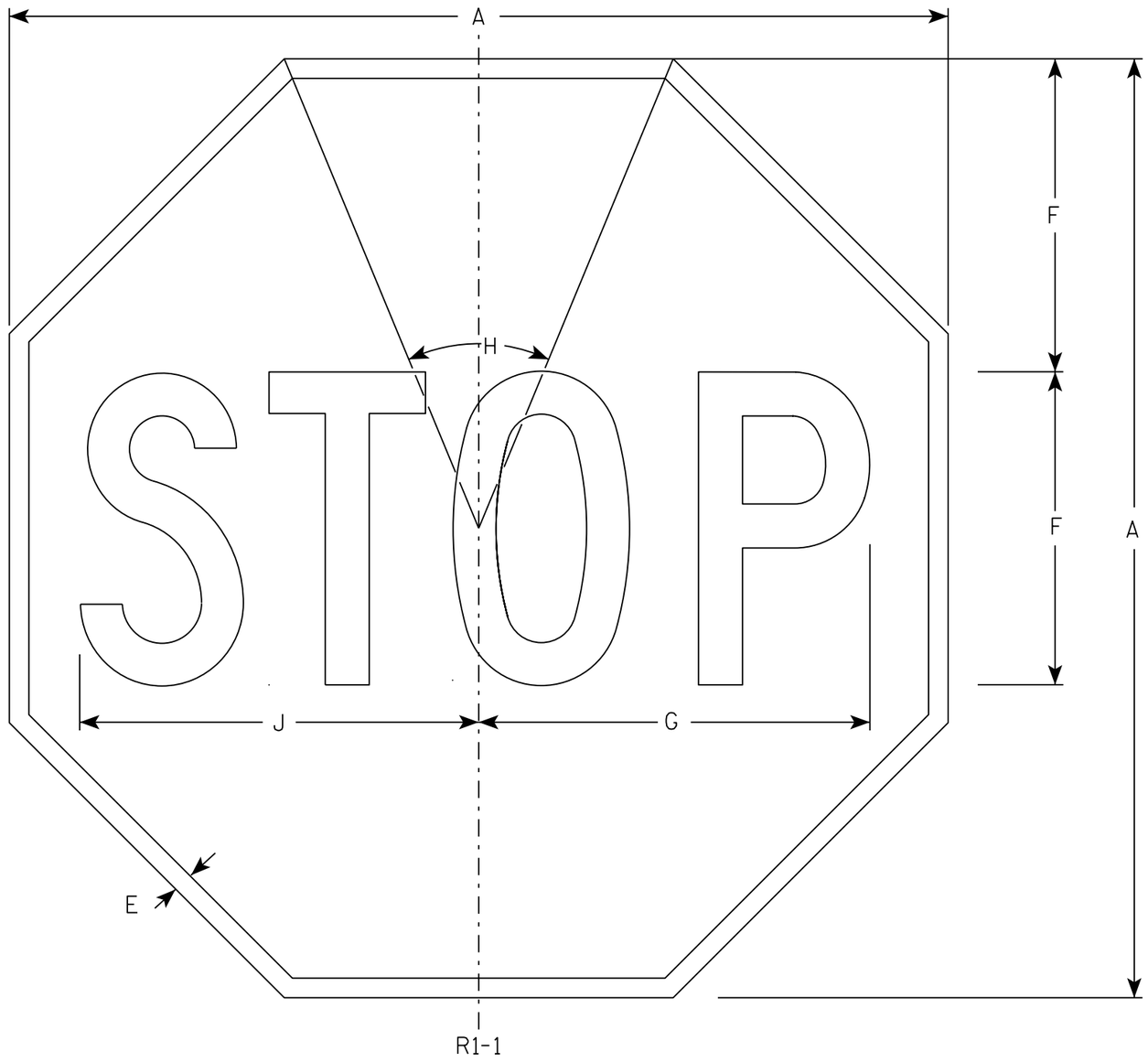
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 606 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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

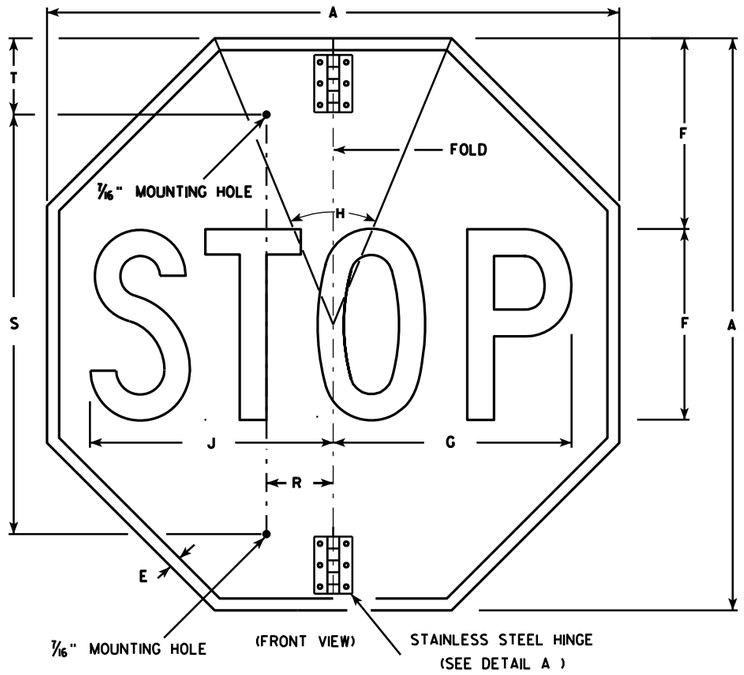
STANDARD SIGN
R1-1

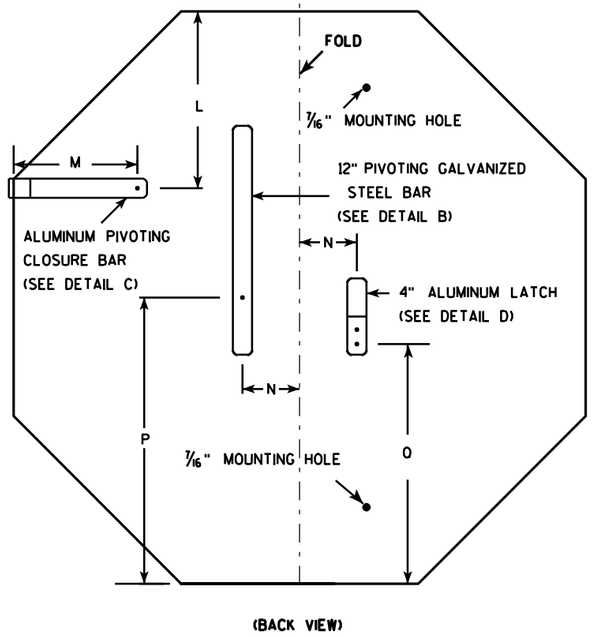
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

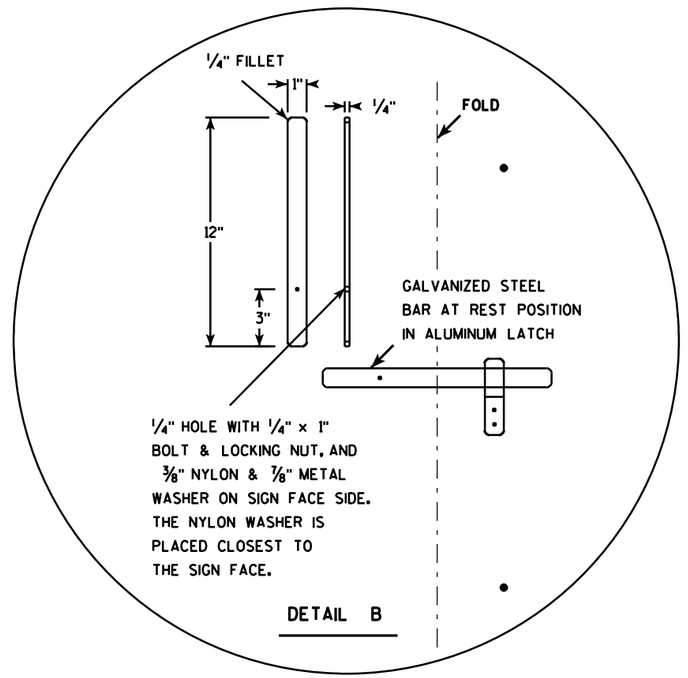
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 607	E

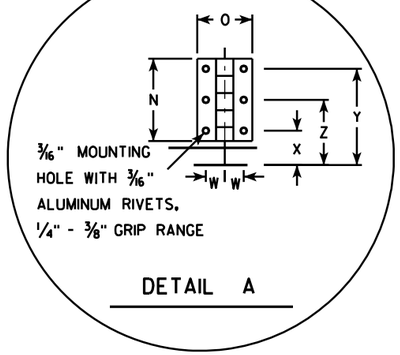


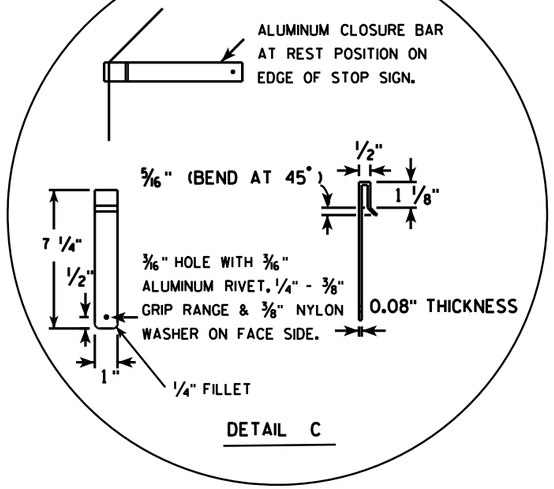


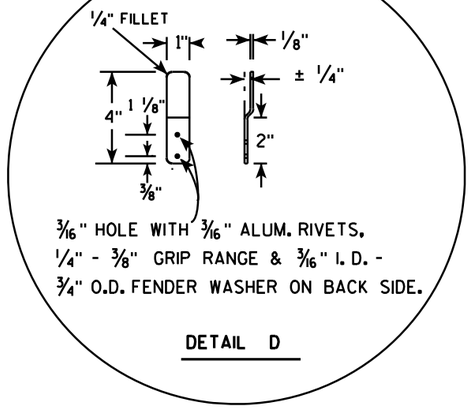
NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.









SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

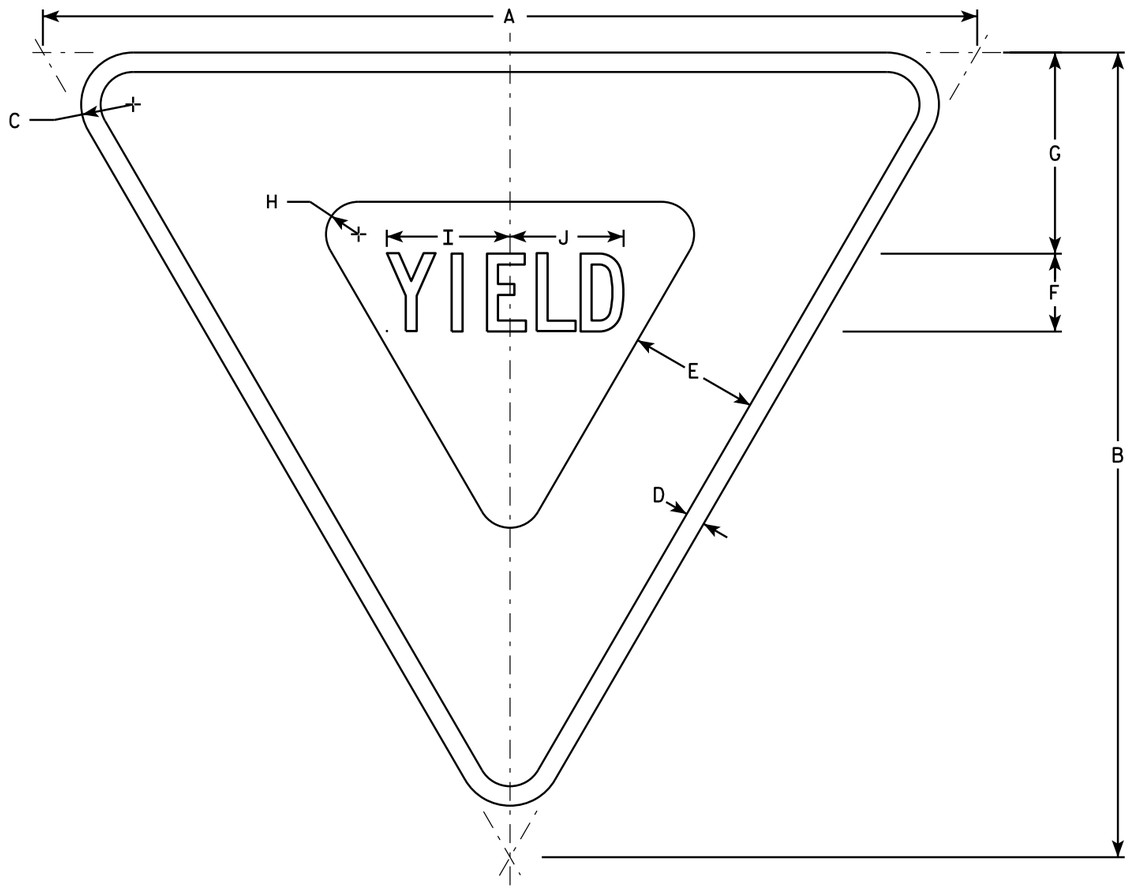
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 608	E



R1-2

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 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. The border strip and word message are reflectorized red.

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	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

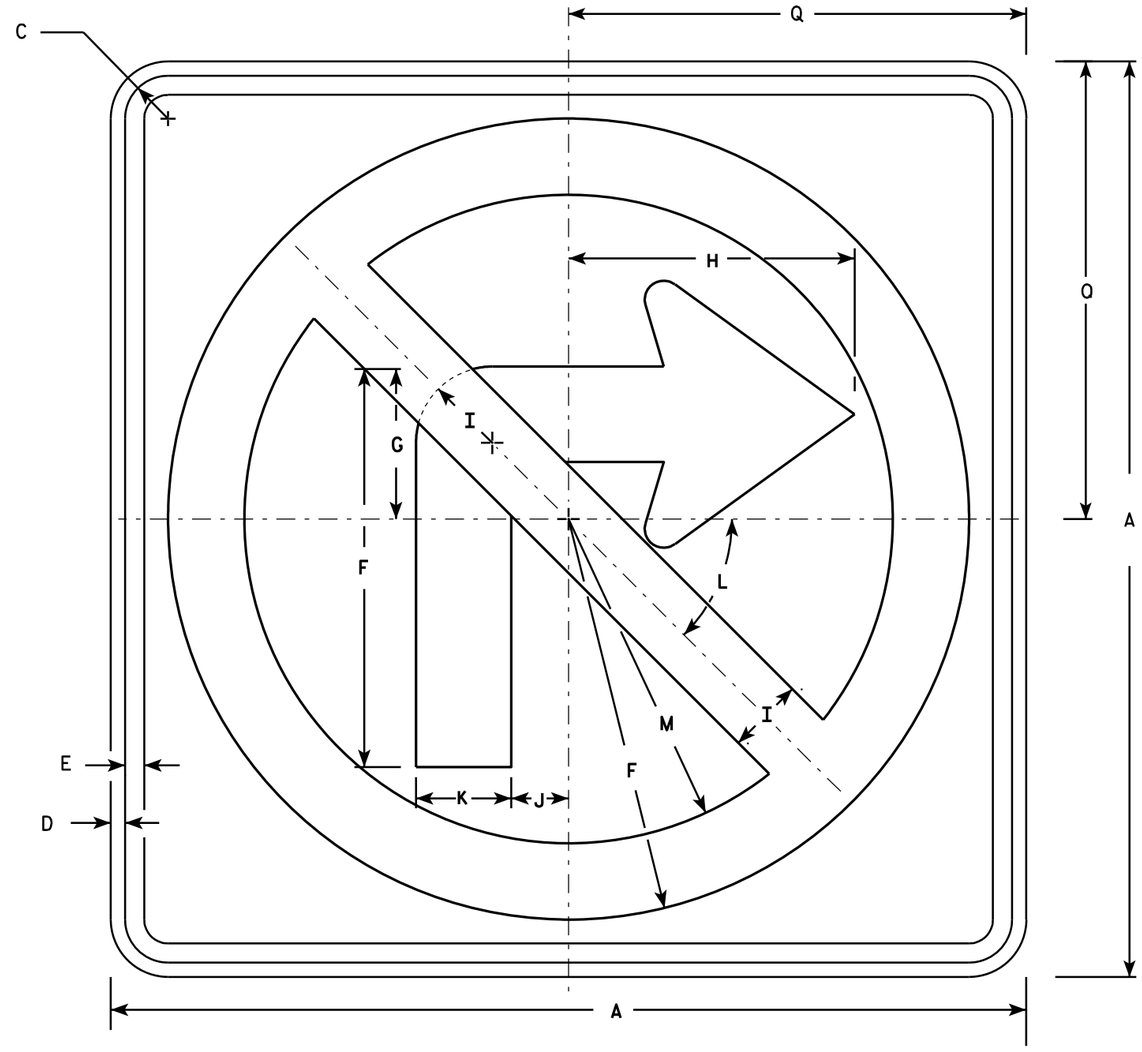
STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE P1-2.12

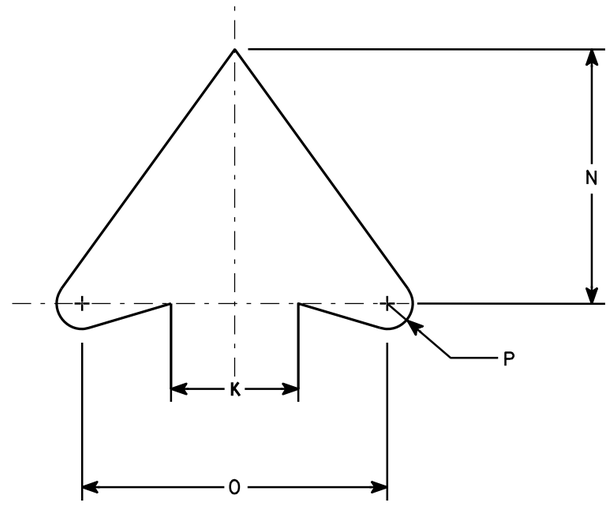
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



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

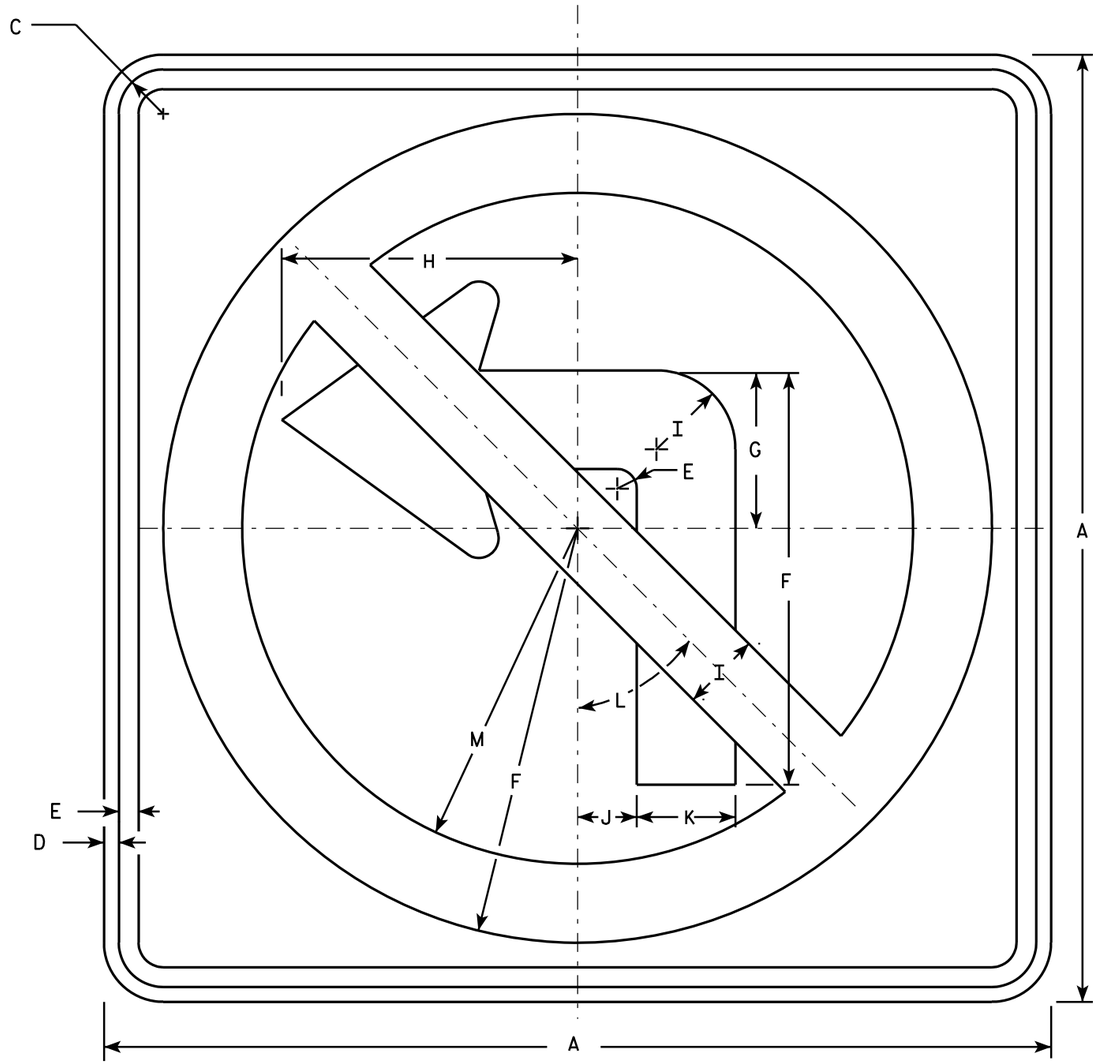
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

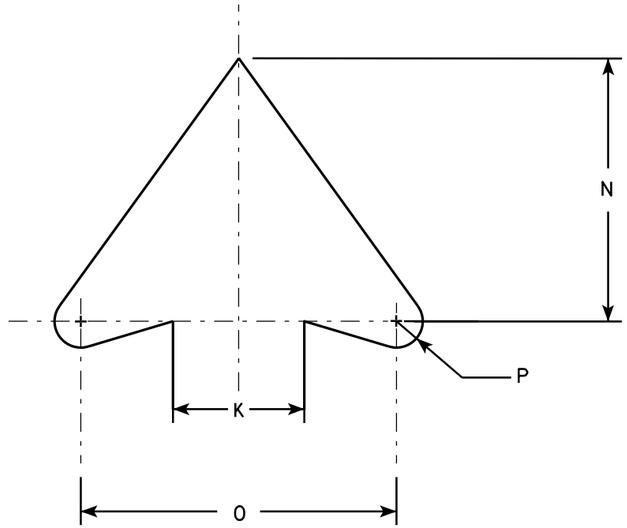
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 610	E



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

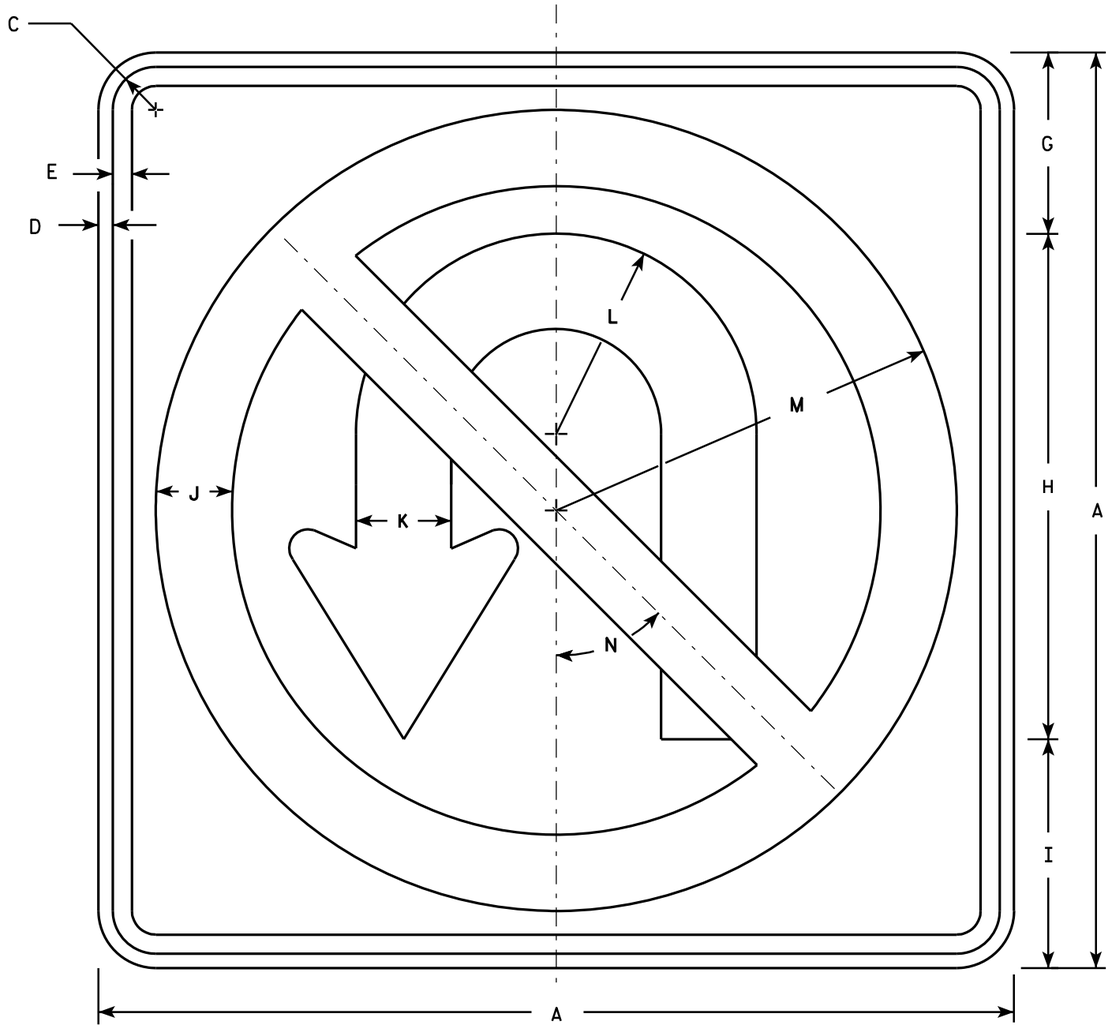
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

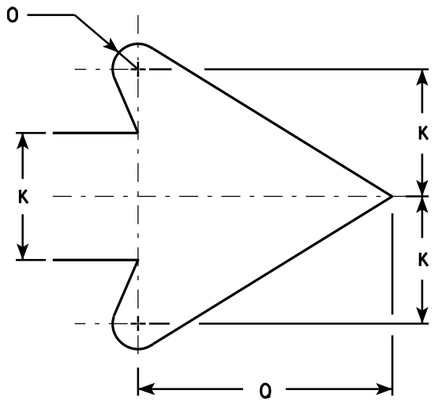
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 611	E



R3-4

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																											
2S	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
3	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
4	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
5	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0

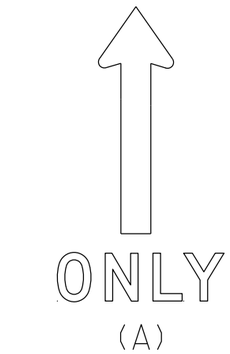
STANDARD SIGN
R3-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

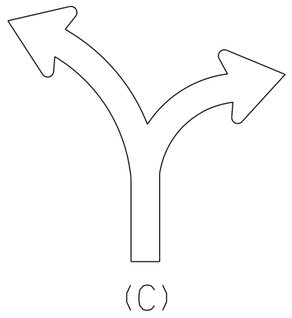
DATE 12/08/10 PLATE NO. R3-4.11

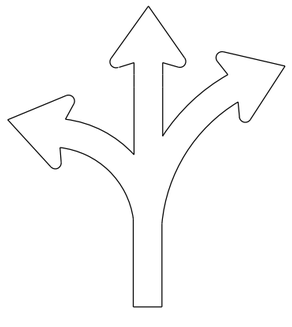
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 612	E

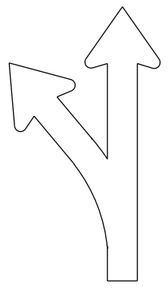


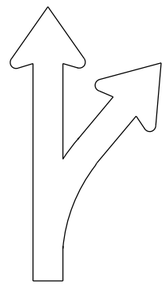
(A)

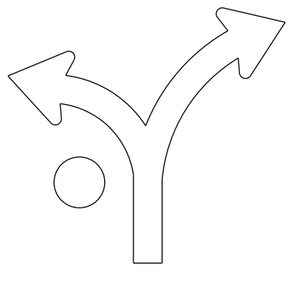
(B)

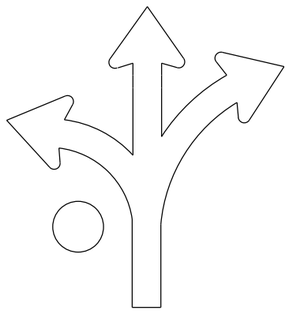

(C)

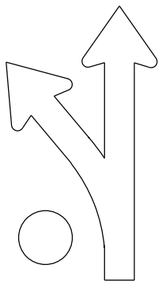

(D)


(E)

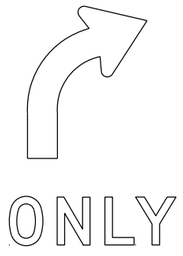

(F)


(G)

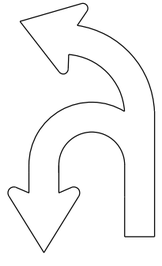

(H)


(I)

(L)



(R)


(U)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1	Letter =	3.75 sq ft for Size 2
		6.0 sq ft for Size 3
		10.0 sq ft for Size 4 or 5
2	Letters =	7.5 sq ft for Size 2
		12.0 sq ft for Size 3
		20.0 sq ft for Size 4 or 5
3	Letters =	11.25 sq ft for Size 2
		18.0 sq ft for Size 3
		30.0 sq ft for Size 4 or 5
4	Letters =	15.0 sq ft for Size 2
		24.0 sq ft for Size 3
		40.0 sq ft for Size 4 or 5
5	Letters =	18.75 sq ft for Size 2
		30.0 sq ft for Size 3
		50.0 sq ft for Size 4 or 5
6	Letters =	22.5 sq ft for Size 2
		36.0 sq ft for Size 3
		60.0 sq ft for Size 4 or 5

6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

SHEET NO: 613 E

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 21-MAY 2019 4:37 PLOT BY : mscj9h PLOT NAME :

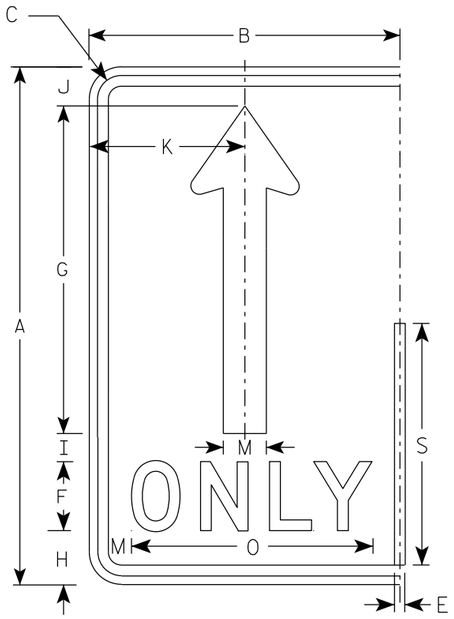
WISDOT/CADDS SHEET 42

7

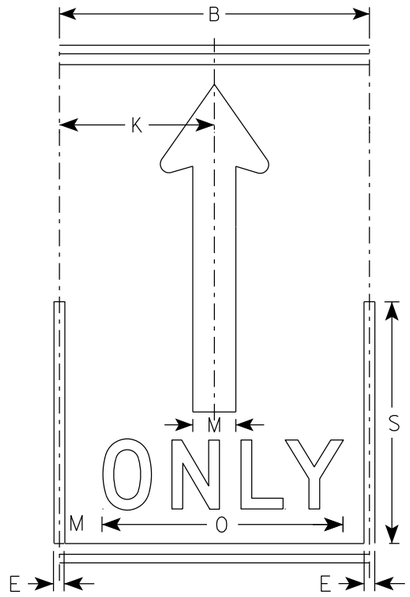
7

NOTES

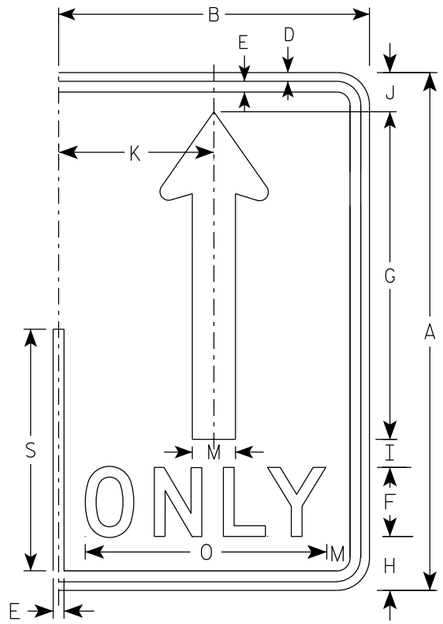
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



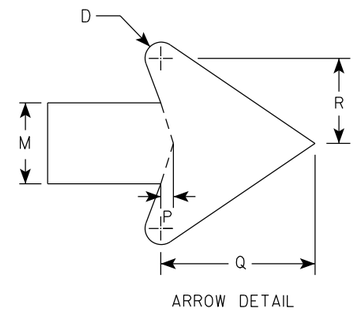
(A)



(A)



(A)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

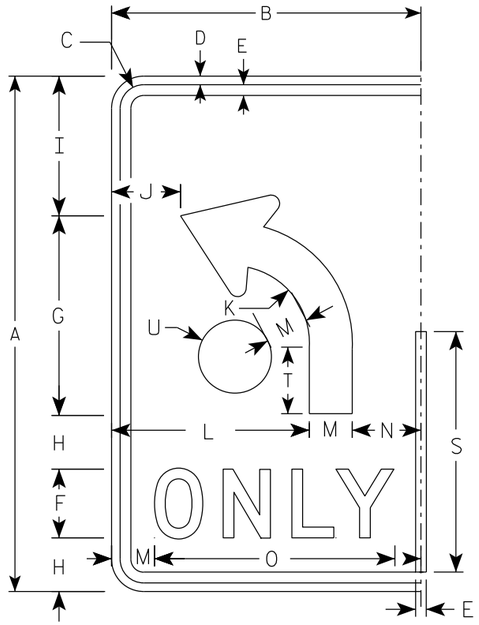
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

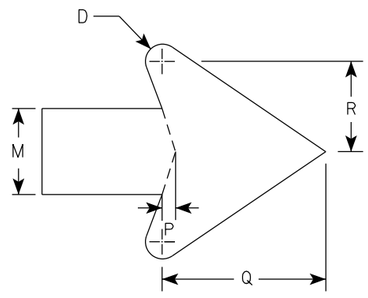
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 614 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

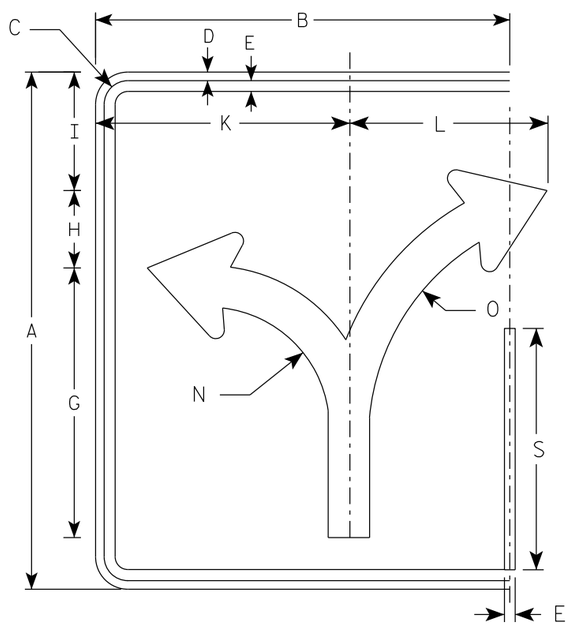
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

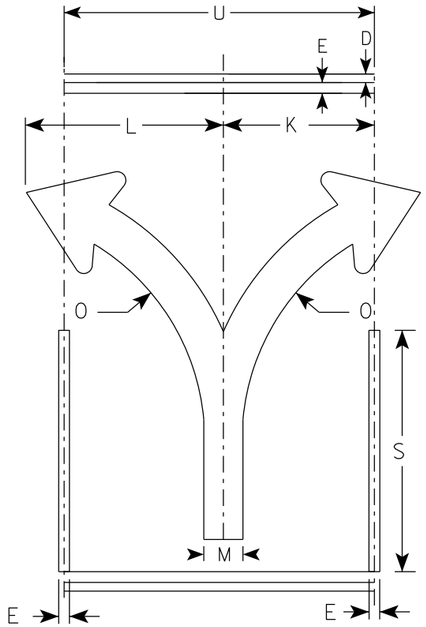
SHEET NO: 615 E

NOTES

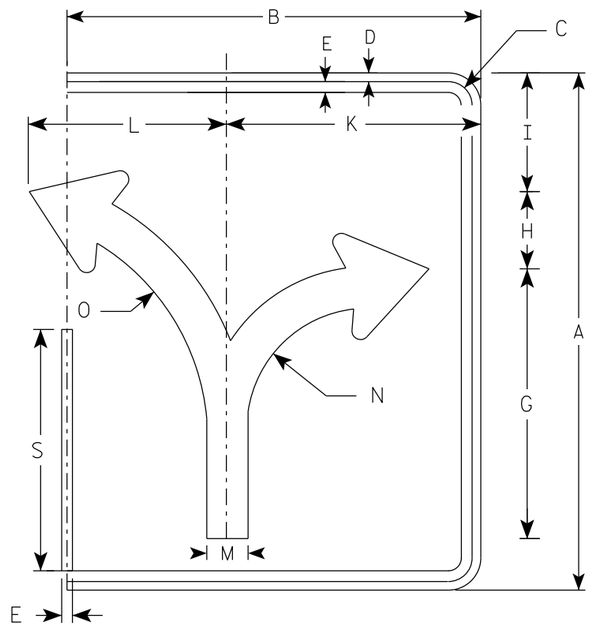
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



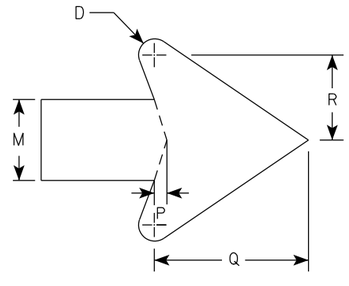
(C)



(C)



(C)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

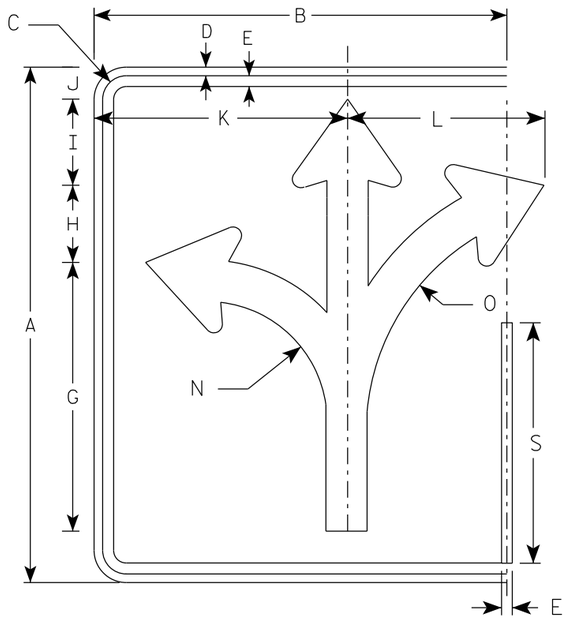
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

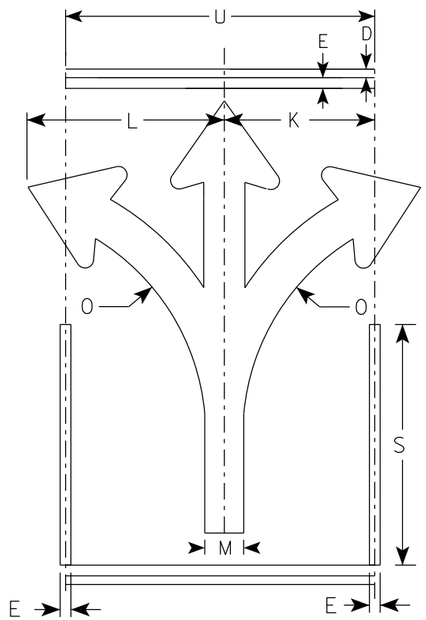
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 616 | E

NOTES

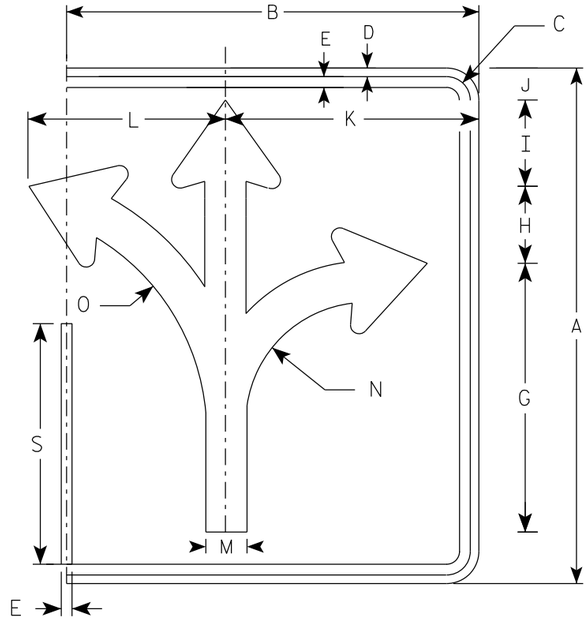
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



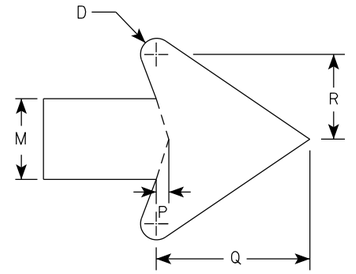
(D)



(D)



(D)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

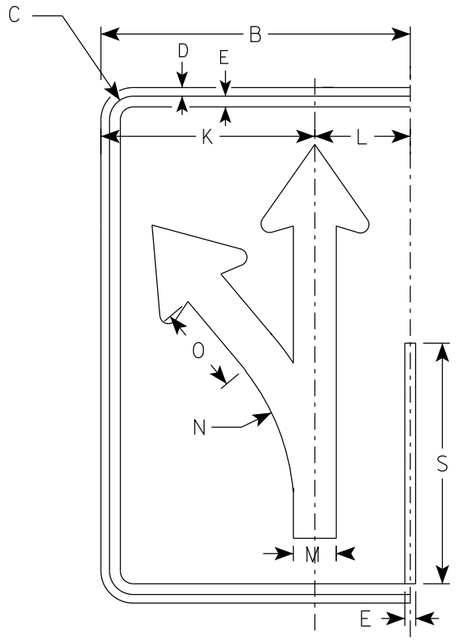
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

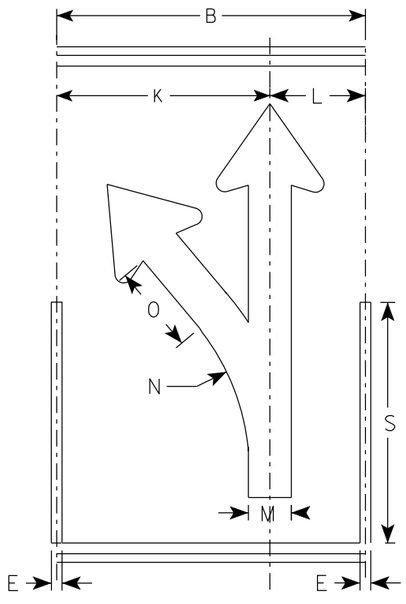
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 617 | E

NOTES

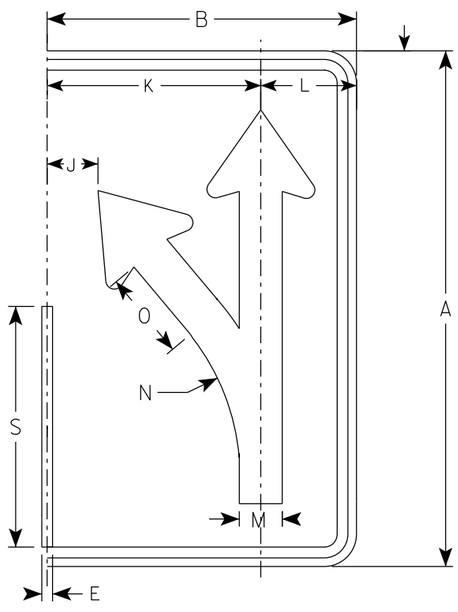
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



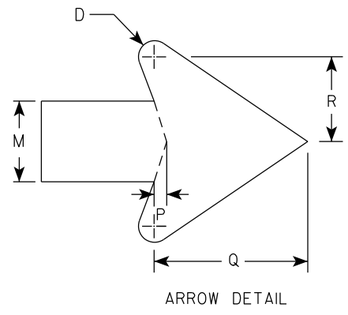
(E)



(E)



(E)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

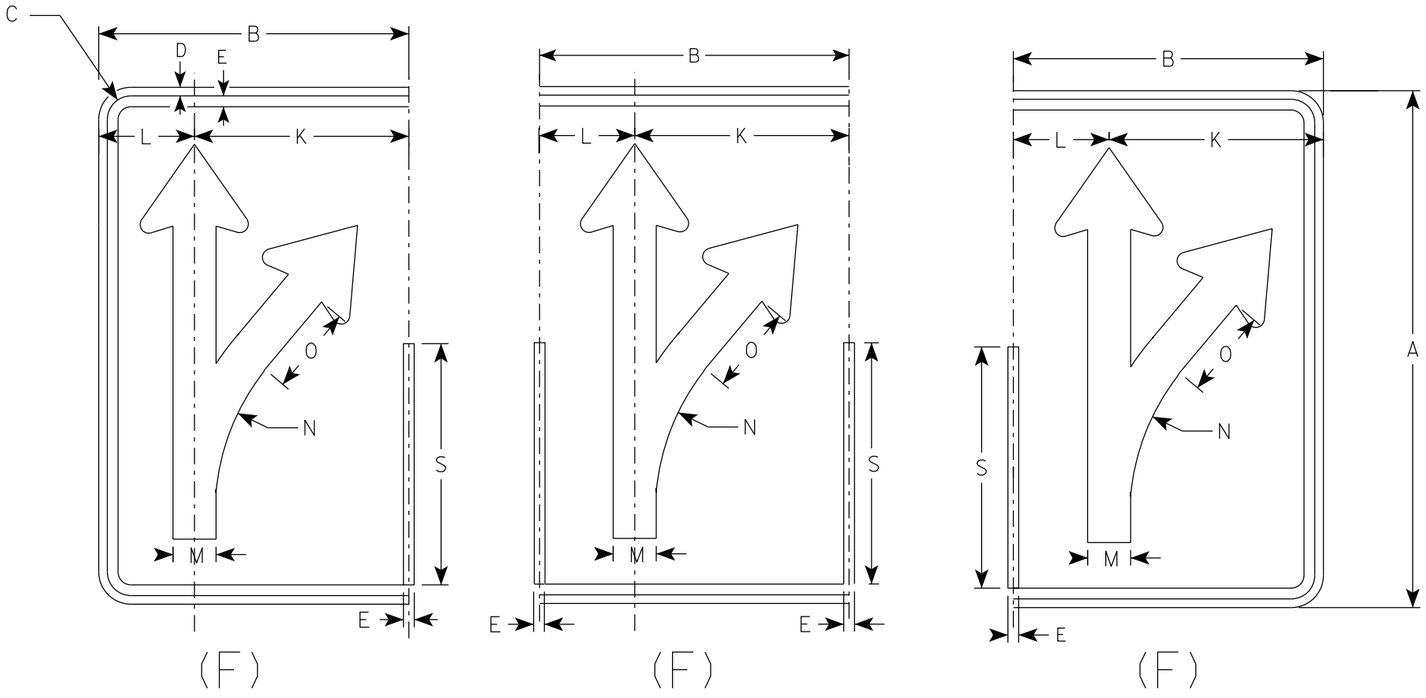
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

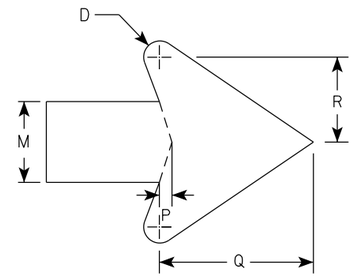
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 618 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(F) (F) (F)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

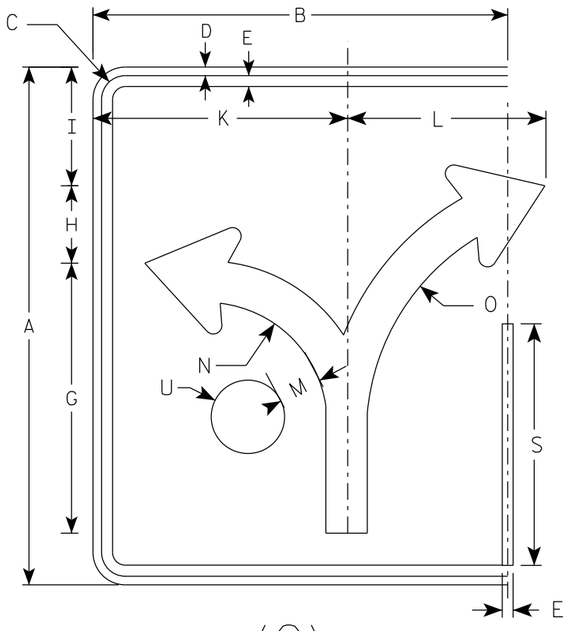
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

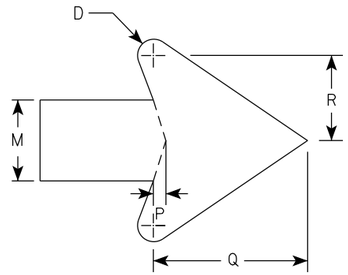
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 619 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

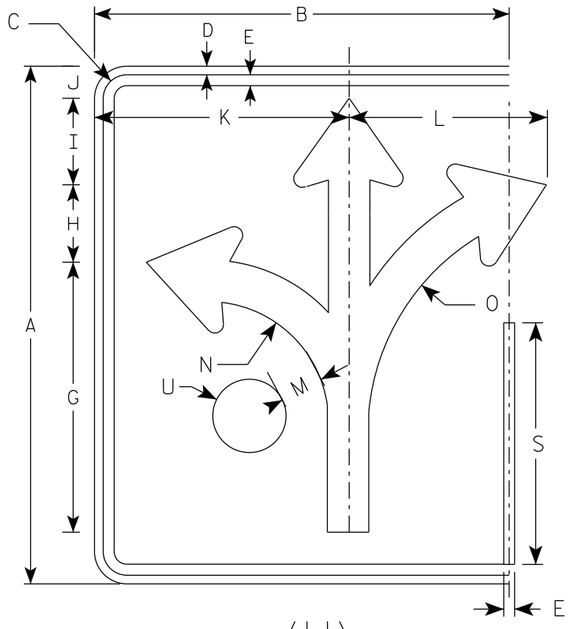
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

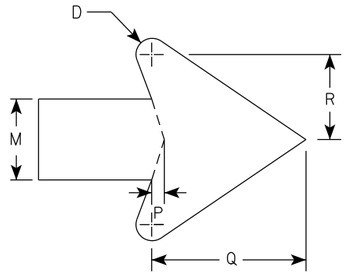
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 620 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

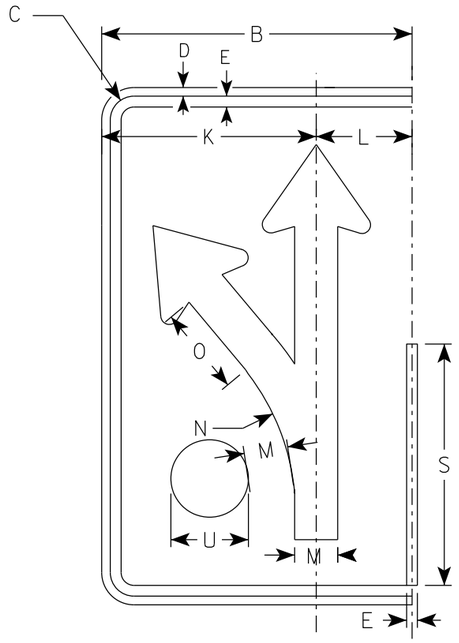
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

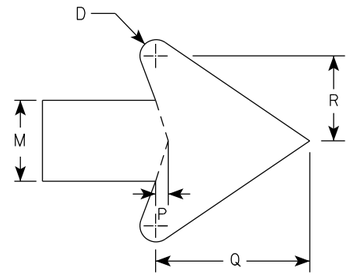
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 621	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

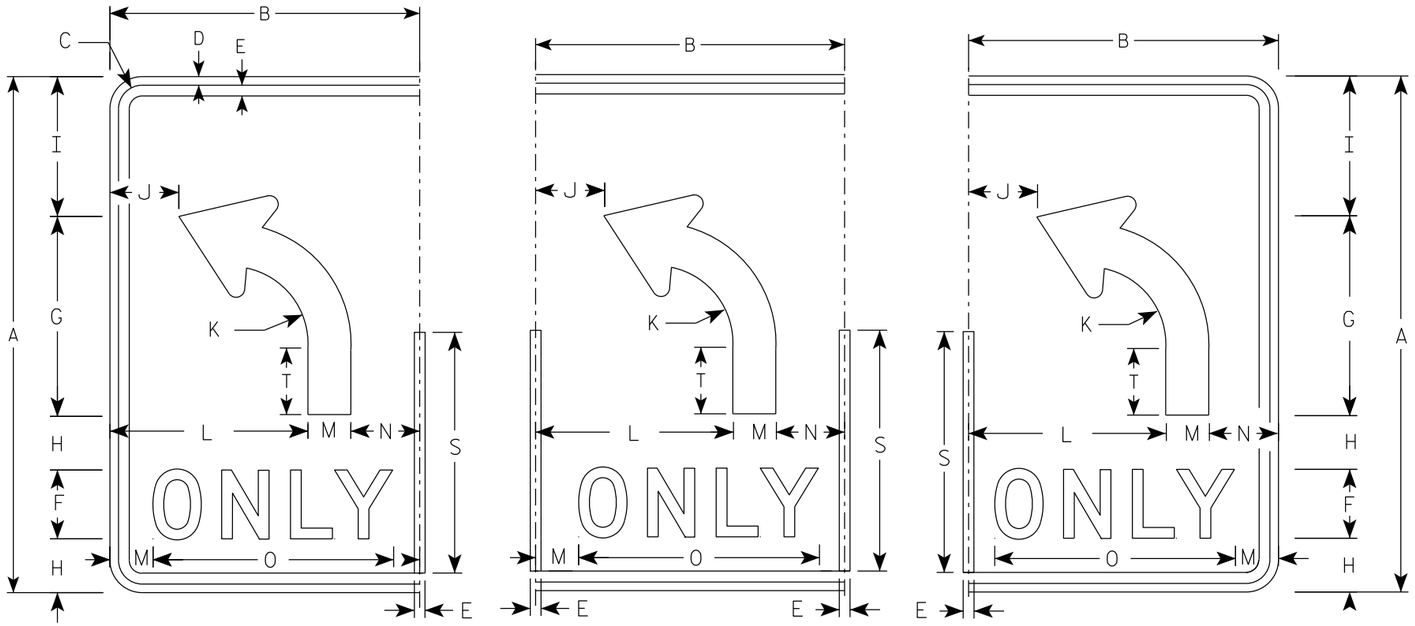
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

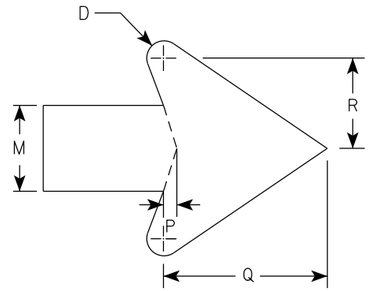
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 622 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



(L) (L) (L)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

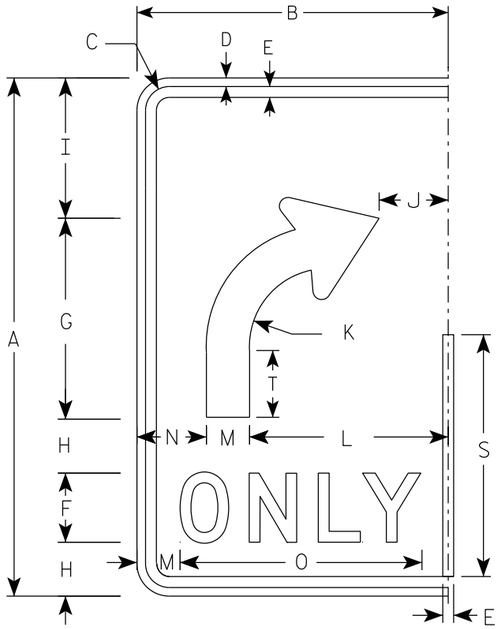
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

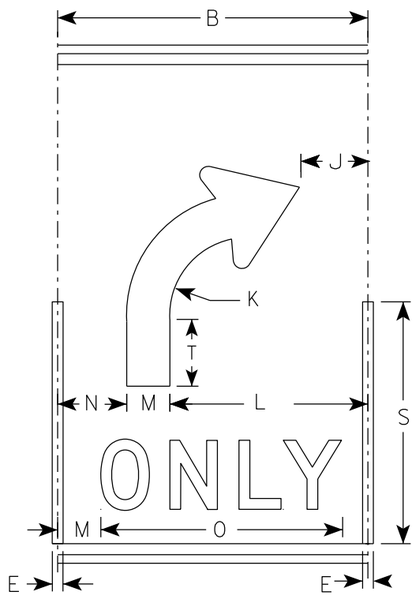
SHEET NO: 623 E

NOTES

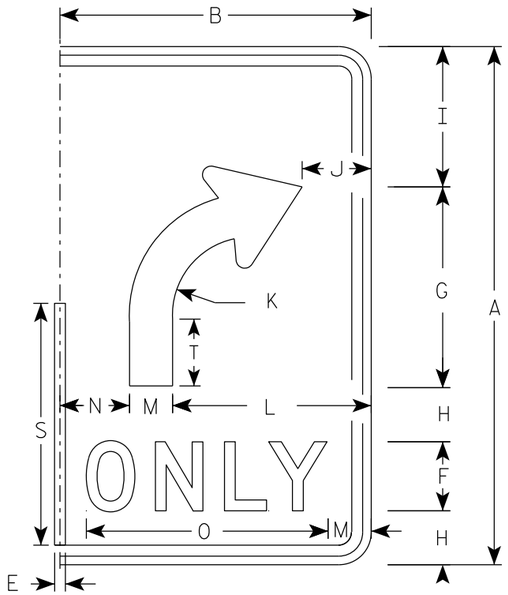
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



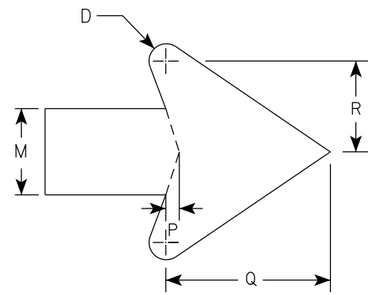
(R)



(R)



(R)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN
R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

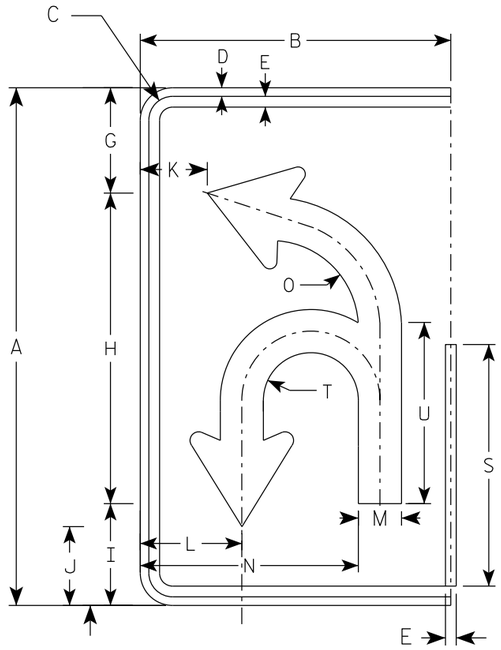
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

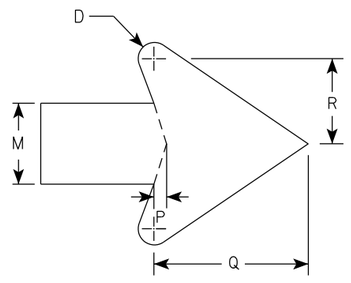
SHEET NO: 624 **E**

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(U)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

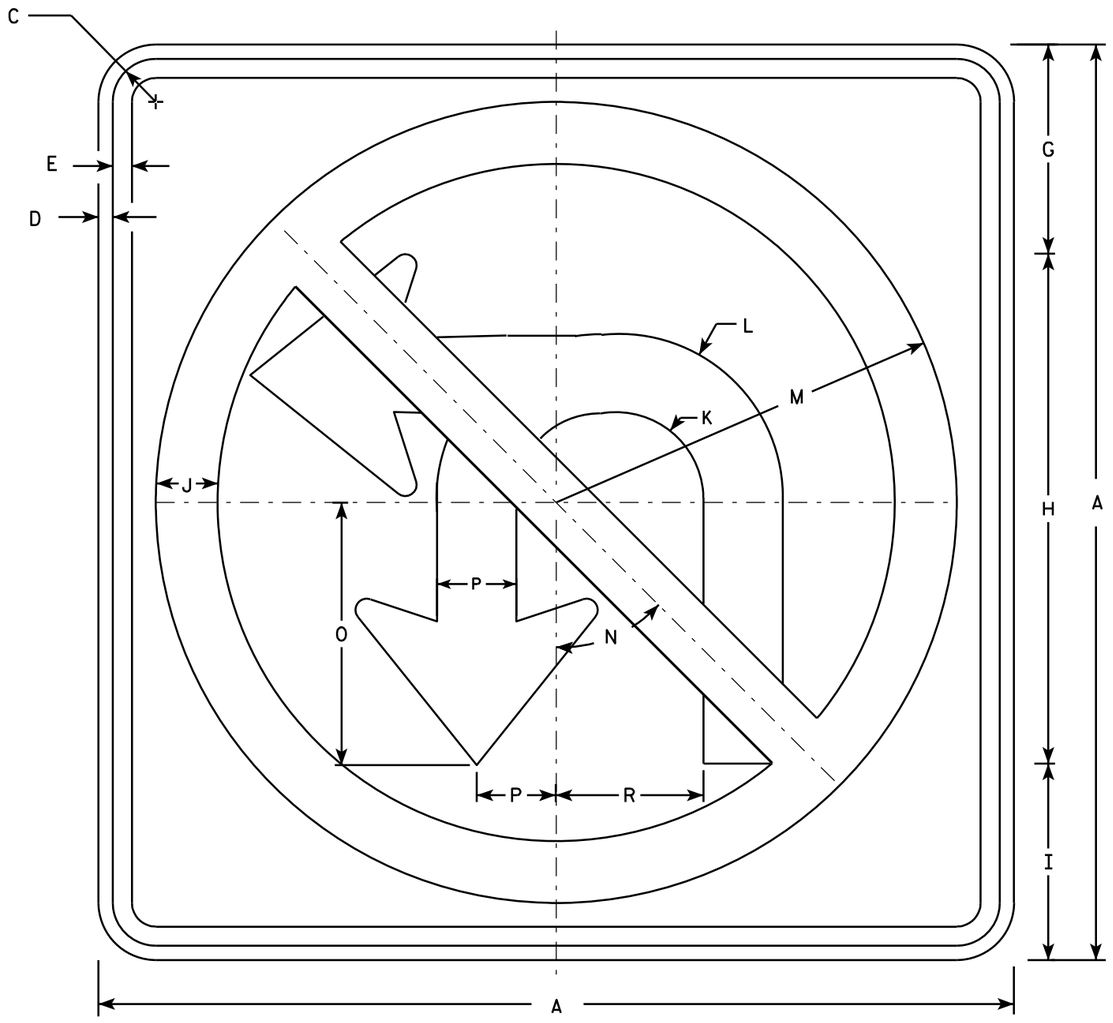
STANDARD SIGN
R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 625 | E



R3-18

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.

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		1 1/8	3/8	1/2		5 1/2	13 3/8	5 1/8	1 5/8	2 1/4	4 1/4	10 1/2	45°	6 7/8	2 1/8		3 7/8									4.0
2M	36		1 5/8	5/8	3/4		8 1/4	20	7 3/4	2 1/2	3 3/8	6 1/2	15 3/4	45°	10 3/8	3 1/8		5 3/4									9.0
3	36		1 5/8	5/8	3/4		8 1/4	20	7 3/4	2 1/2	3 3/8	6 1/2	15 3/4	45	10 3/8	3 1/8		5 3/4									9.0
4	36		1 5/8	5/8	3/4		8 1/4	20	7 3/4	2 1/2	3 3/8	6 1/2	15 3/4	45	10 3/8	3 1/8		5 3/4									9.0
5	48		2 1/4	3/4	1		11	26 3/4	10 1/4	3 1/4	4 5/8	8 5/8	21	45°	13 3/4	4 1/8		7 3/4									16.0

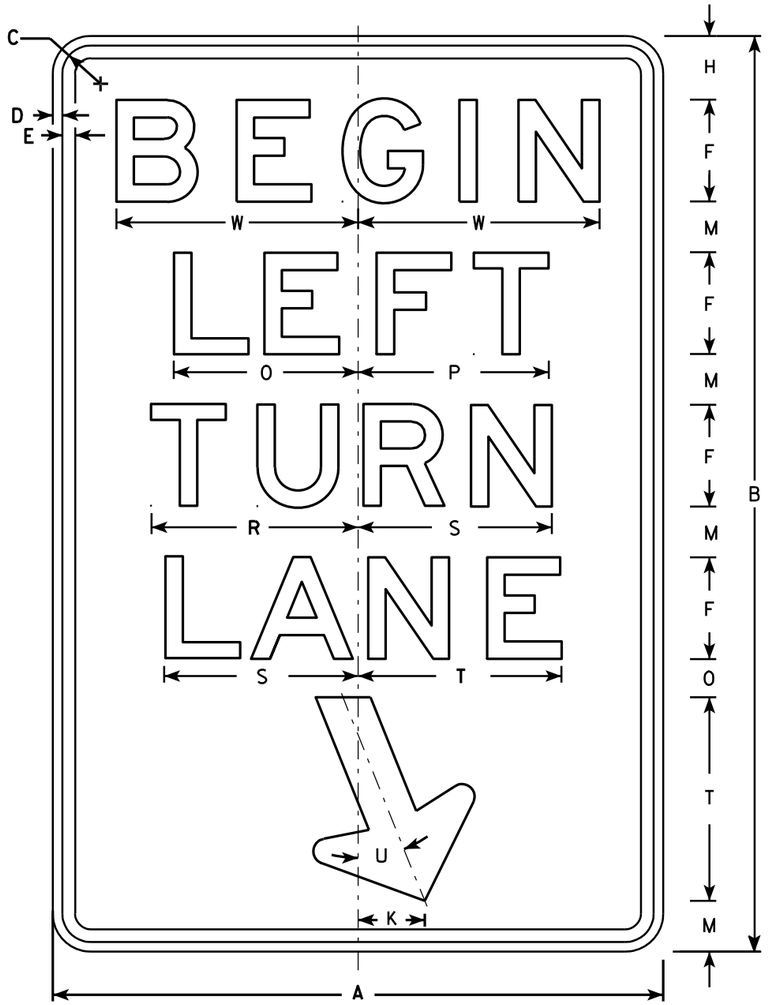
STANDARD SIGN
R3-18

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/21/10 PLATE NO. R3-18.2

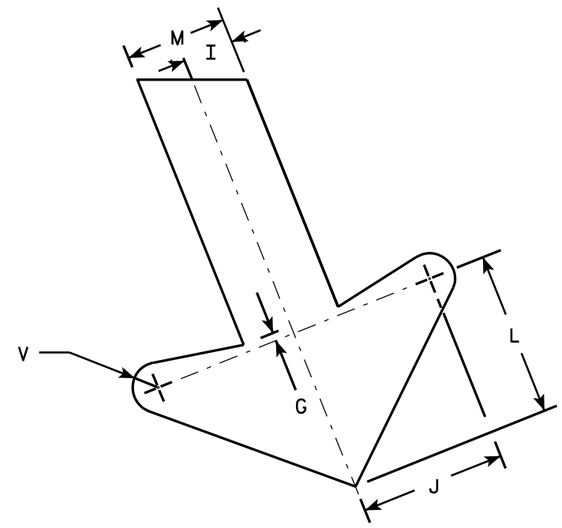
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 626 | E



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																											

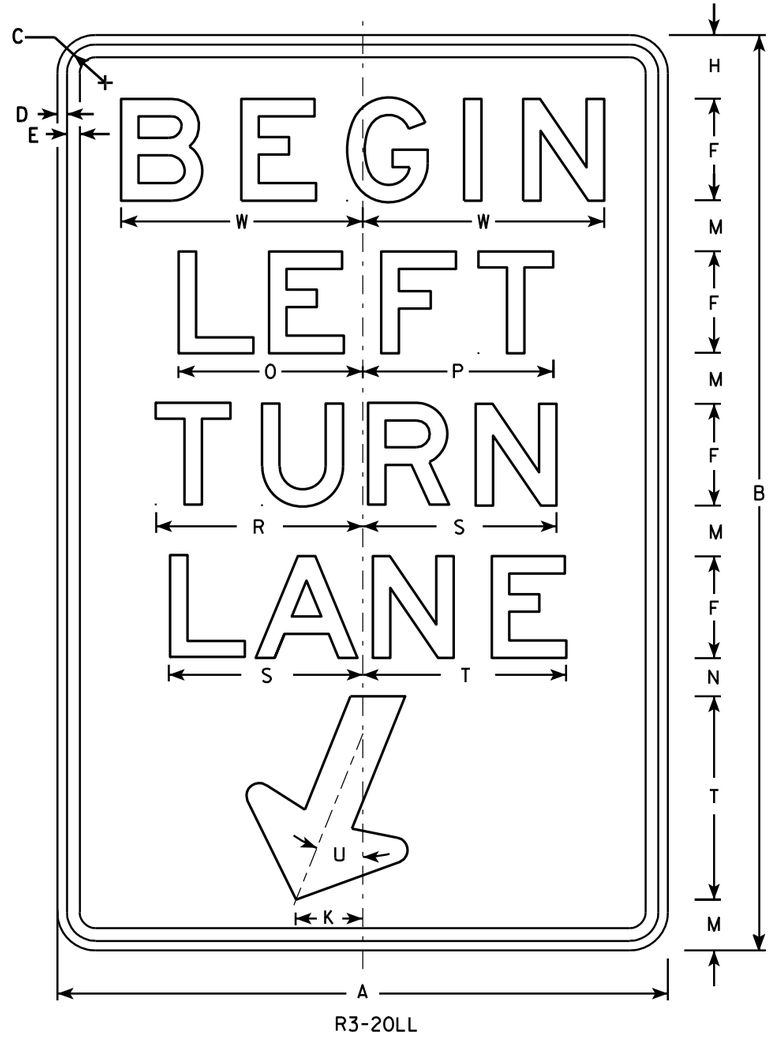
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

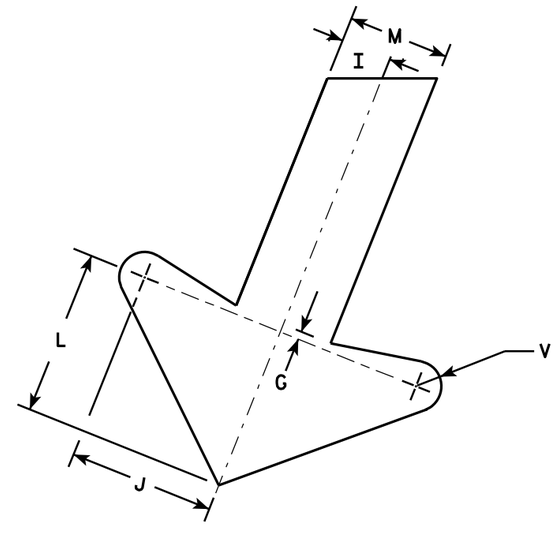
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 627 | E



R3-20LL

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																											

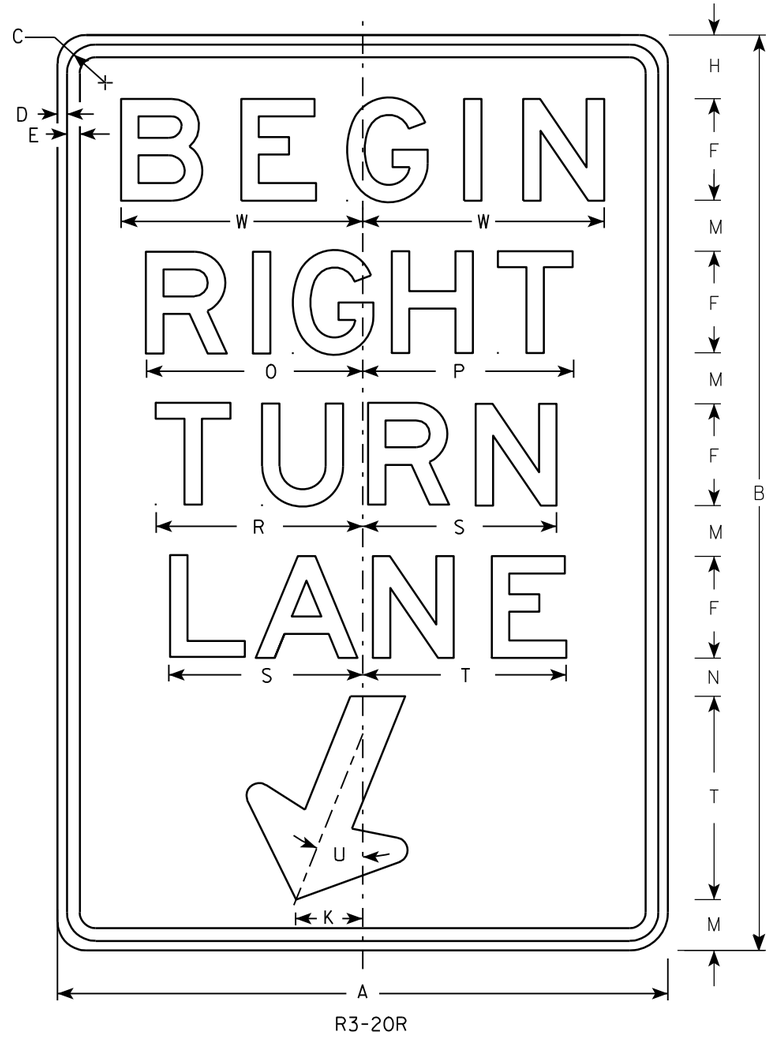
STANDARD SIGN
R3-20LL

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20LL.1

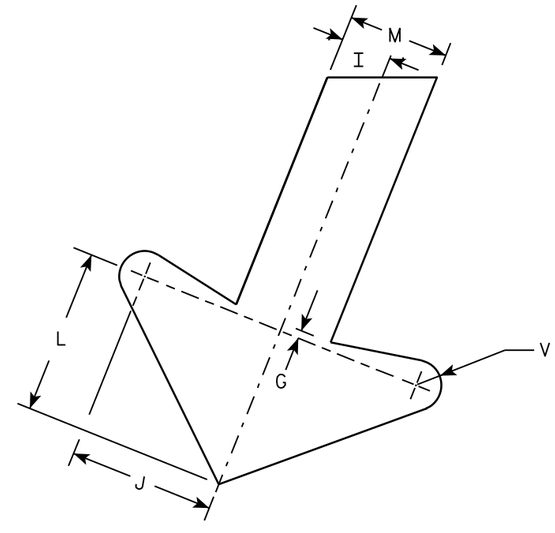
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 628	E



R3-20R

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	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 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	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

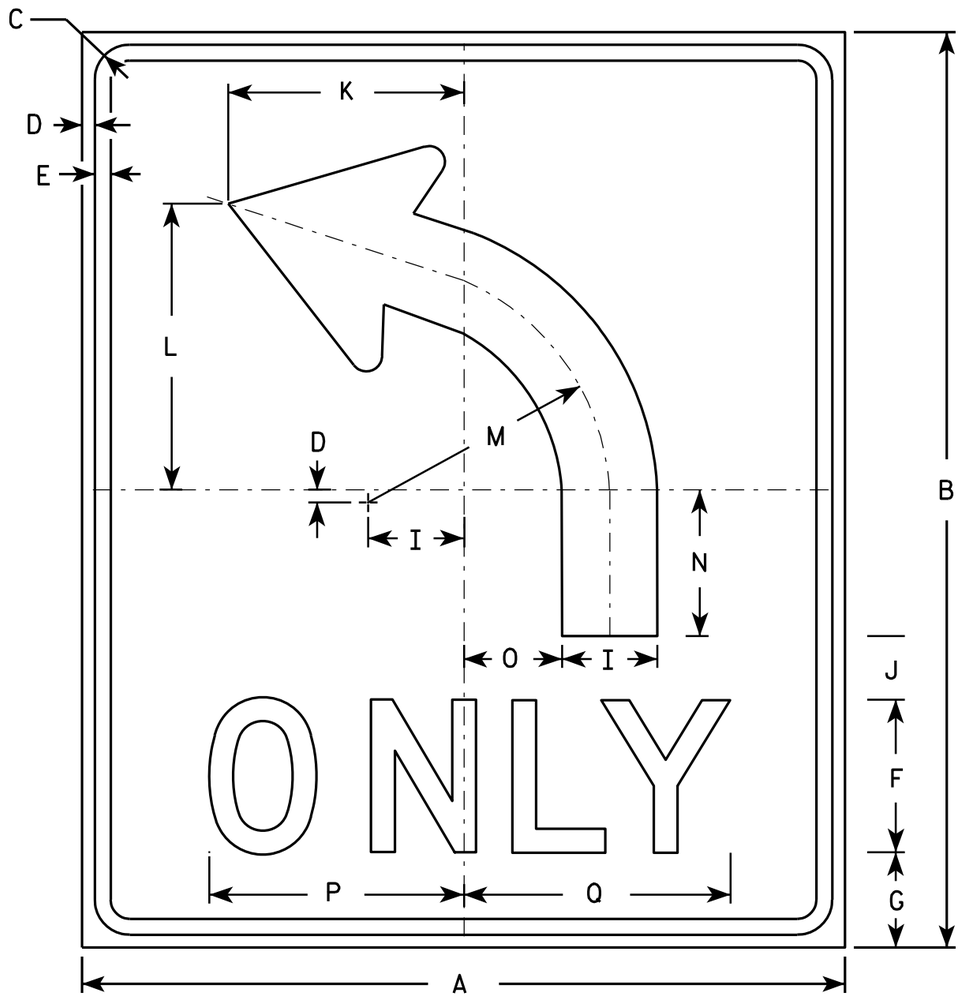
STANDARD SIGN
R3-20R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20R.6

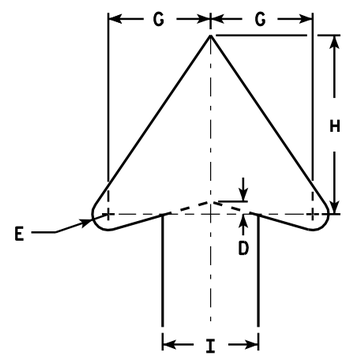
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 629 | E



R3-50L

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. R3-50R is the same as R3-50L except curved portion of arrow points right.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
2M	30	36	1 3/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
3																											
4																											
5																											

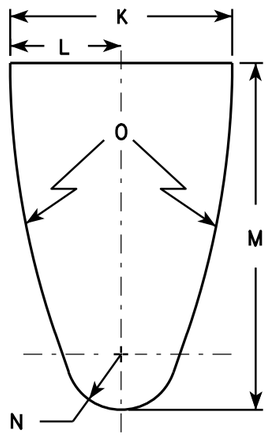
STANDARD SIGN
R3-50

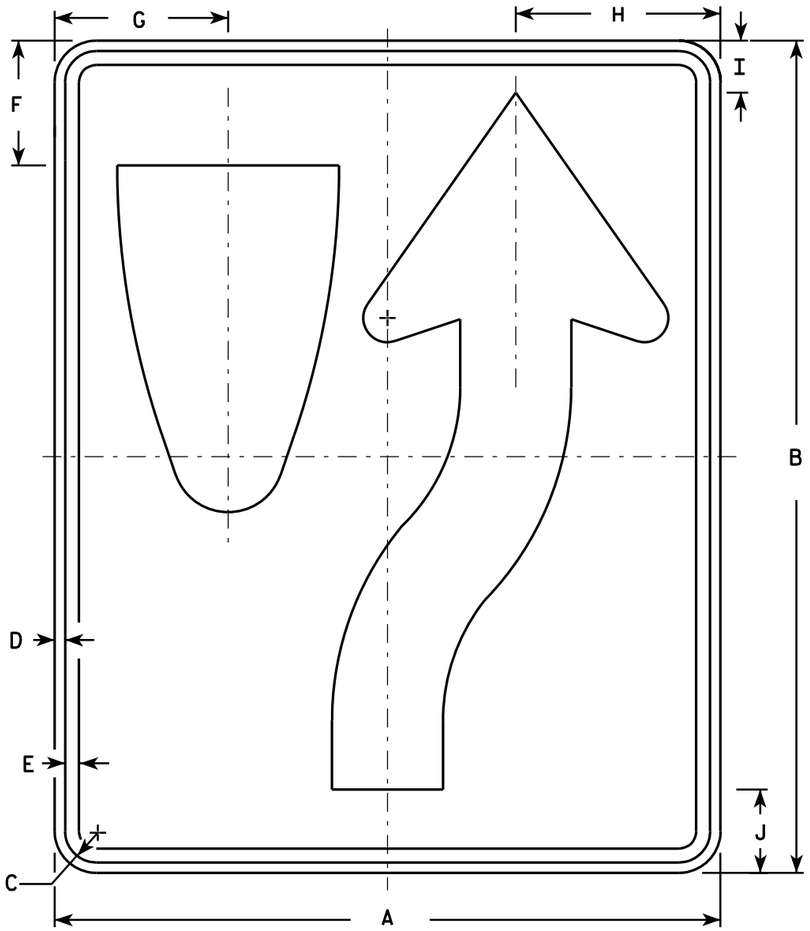
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-50.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 630 | E

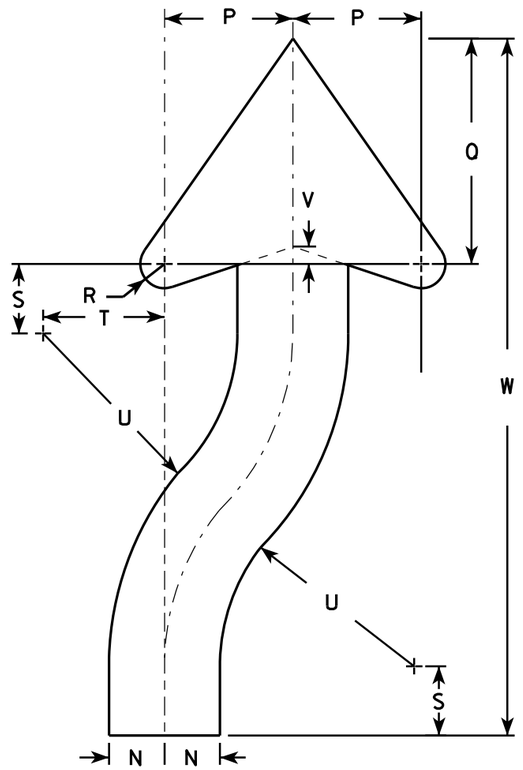




R4-7

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

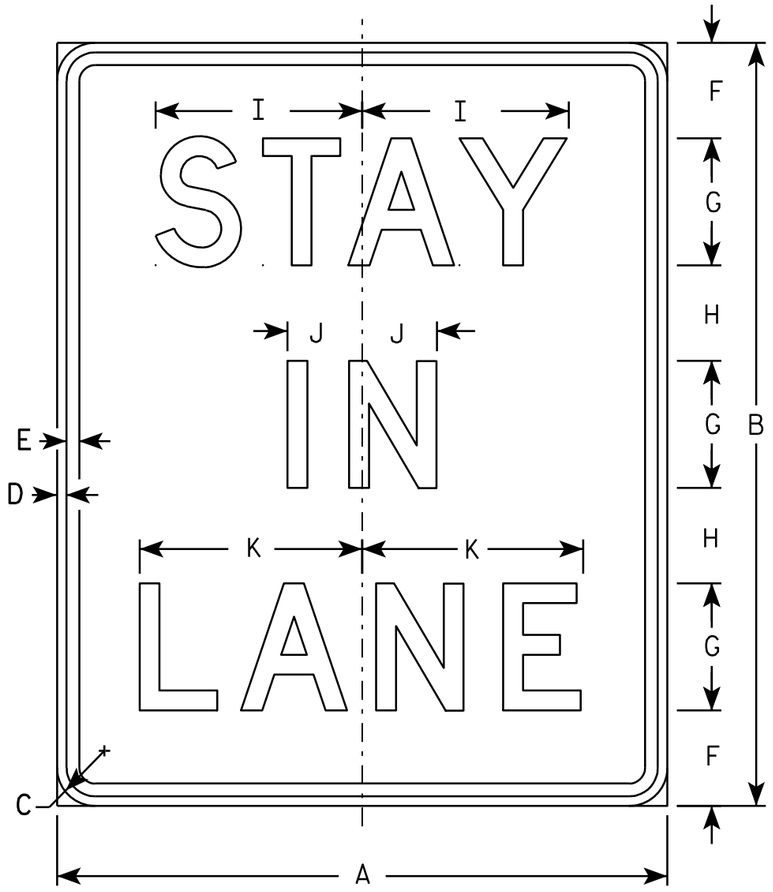
STANDARD SIGN
R4-7 & R4-8

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: 631	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

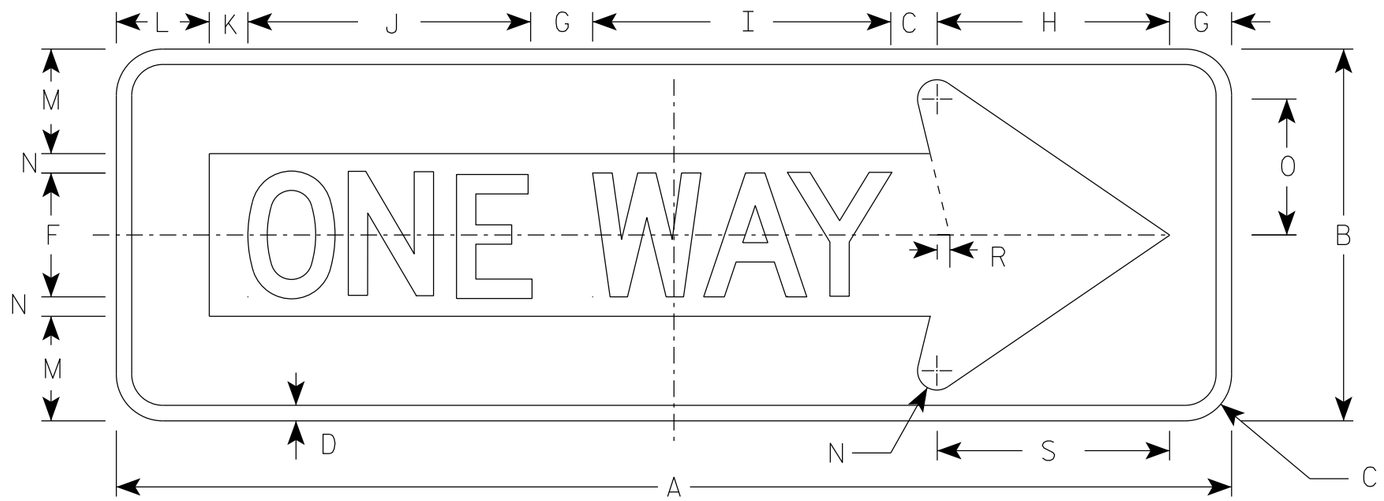
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-9.2

PROJECT NO:

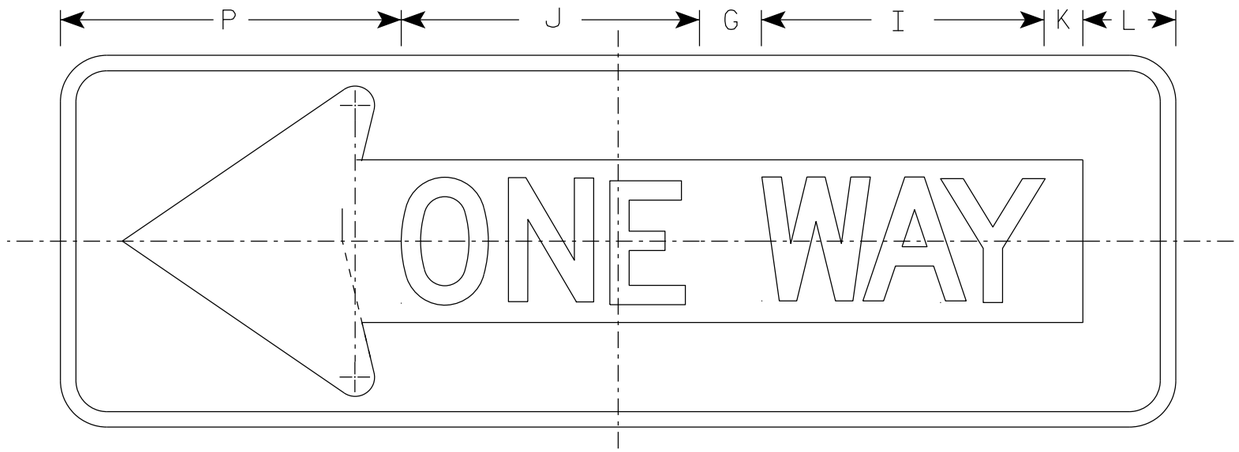
SHEET NO: 632 E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN
R6-1 L & R

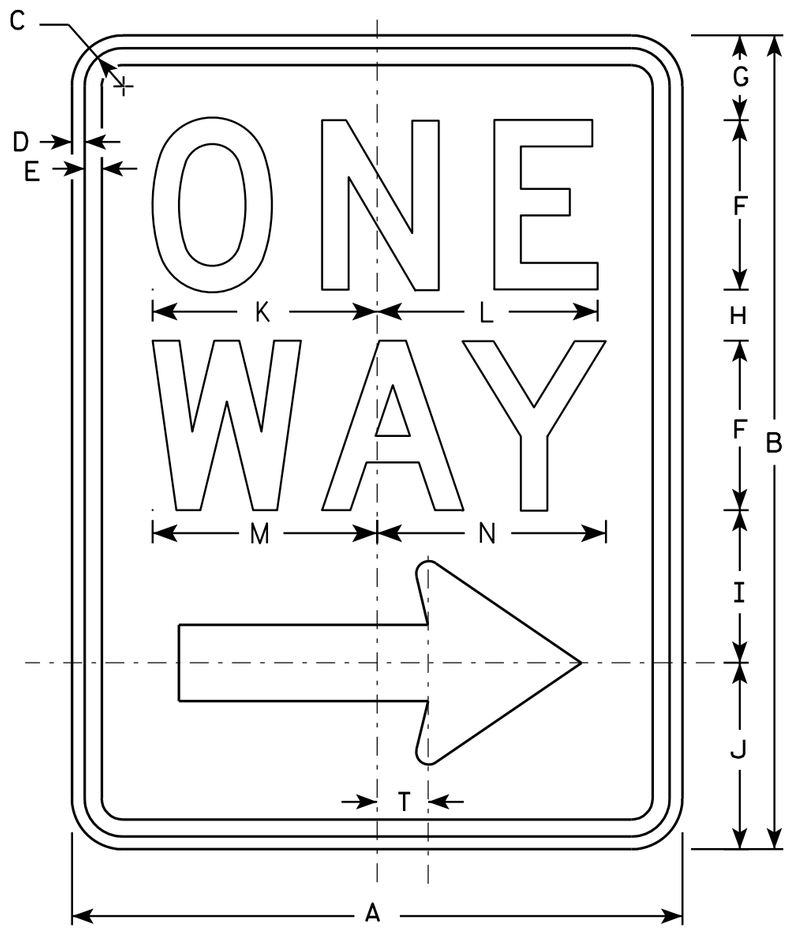
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 07/11/18 PLATE NO. R6-1.3

PROJECT NO:

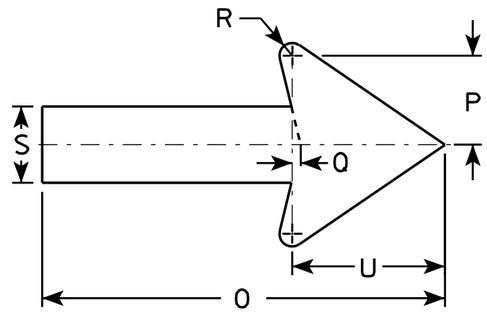
SHEET NO: 633 E



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																										

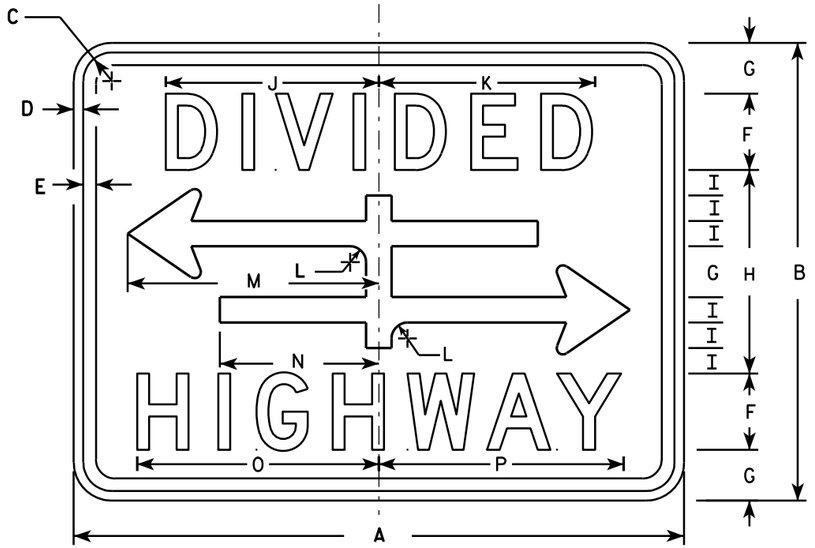
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

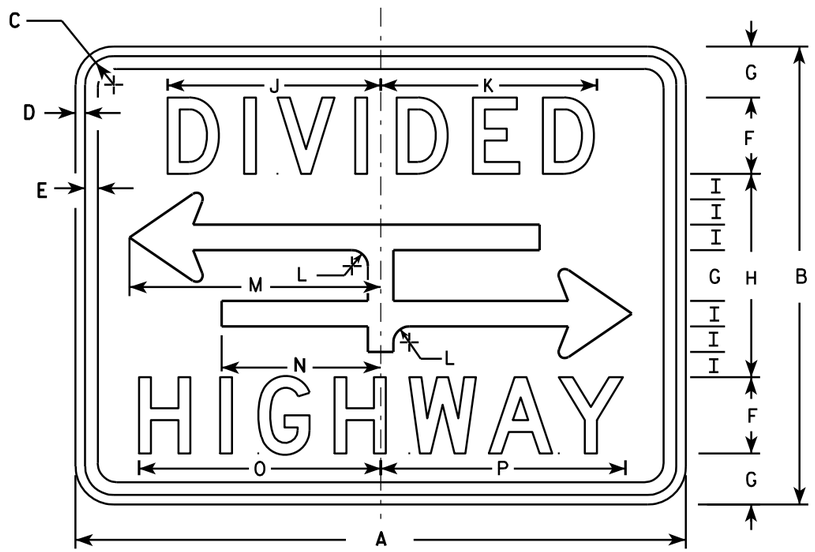
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 634	E



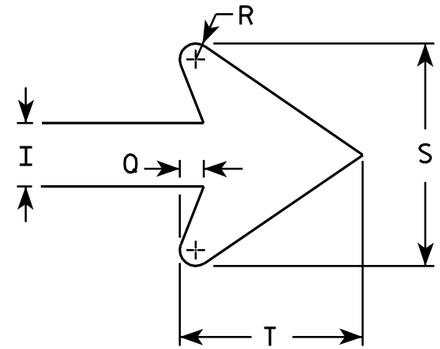
R6-3

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

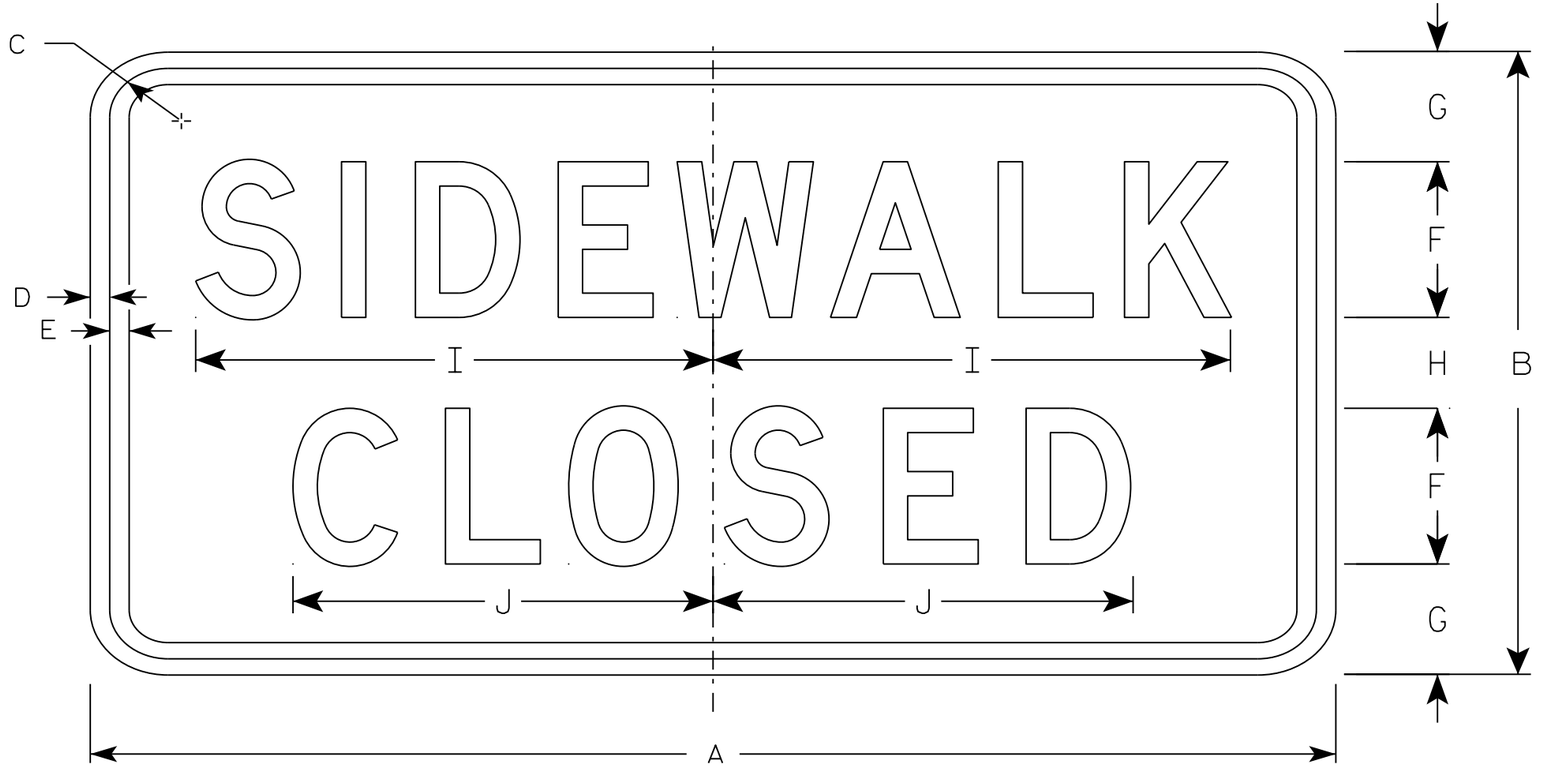
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

SHEET NO: 635 E



R9-9

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 - 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. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

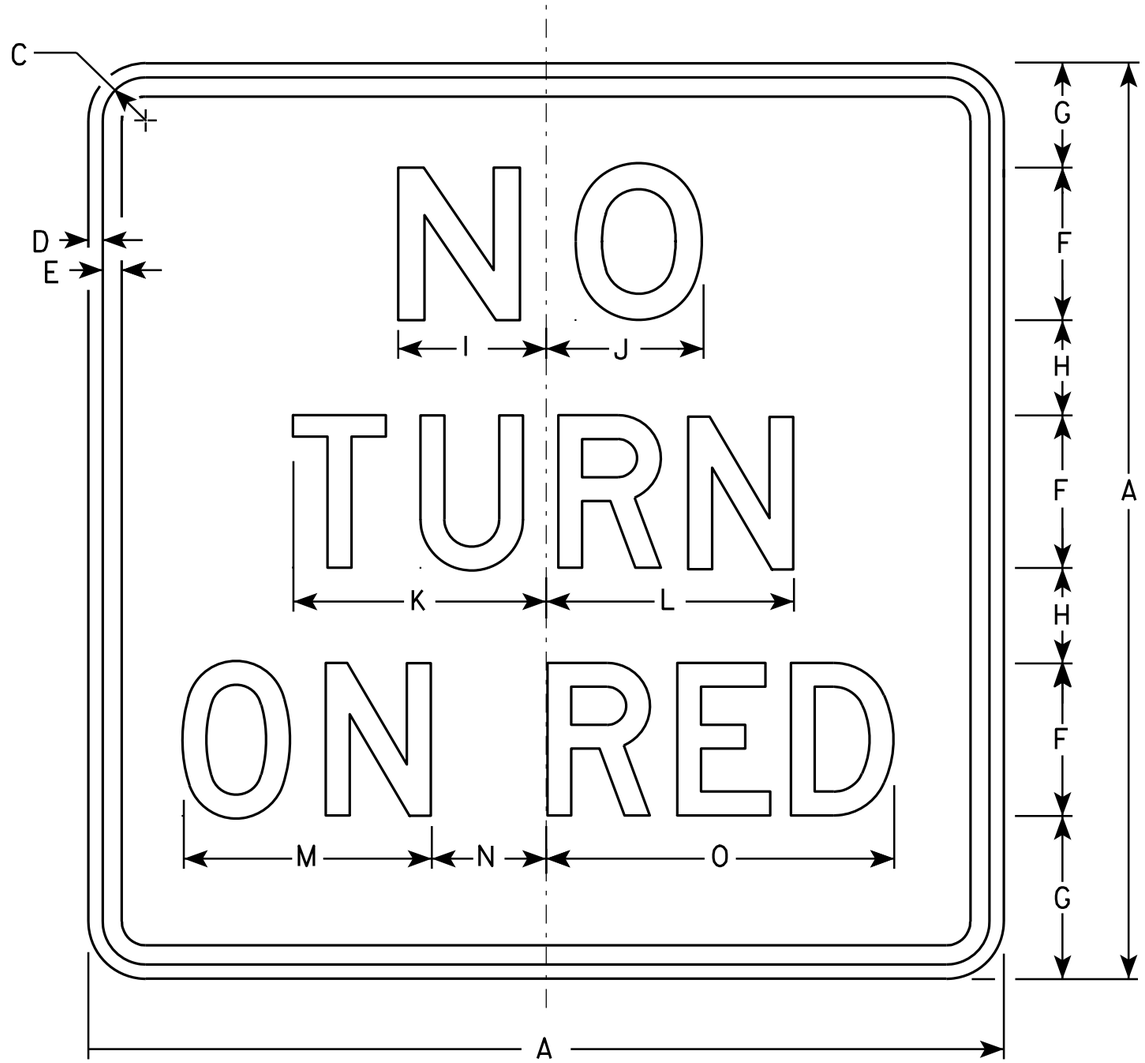
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/11/16 PLATE 636 R9-9.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



R10-11B

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 - 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 E.
   Lines 2 and 3 are 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	18		1 1/8	3/8	3/8	3	2 3/4	1 3/4	3	3 1/8	5	4 7/8	5 1/4	1 7/8	7 1/8												2.25
2S	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 7/8	4 1/8	6 5/8	6 1/2	6 1/2	3	9 1/8												4.0
2M	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 7/8	4 1/8	6 5/8	6 1/2	6 1/2	3	9 1/8												4.0
3	30		1 3/8	1/2	5/8	5	4 1/2	3	4 7/8	5 1/4	8 1/4	8 1/8	7 3/4	4 1/8	11 7/8												6.25
4																											
5																											

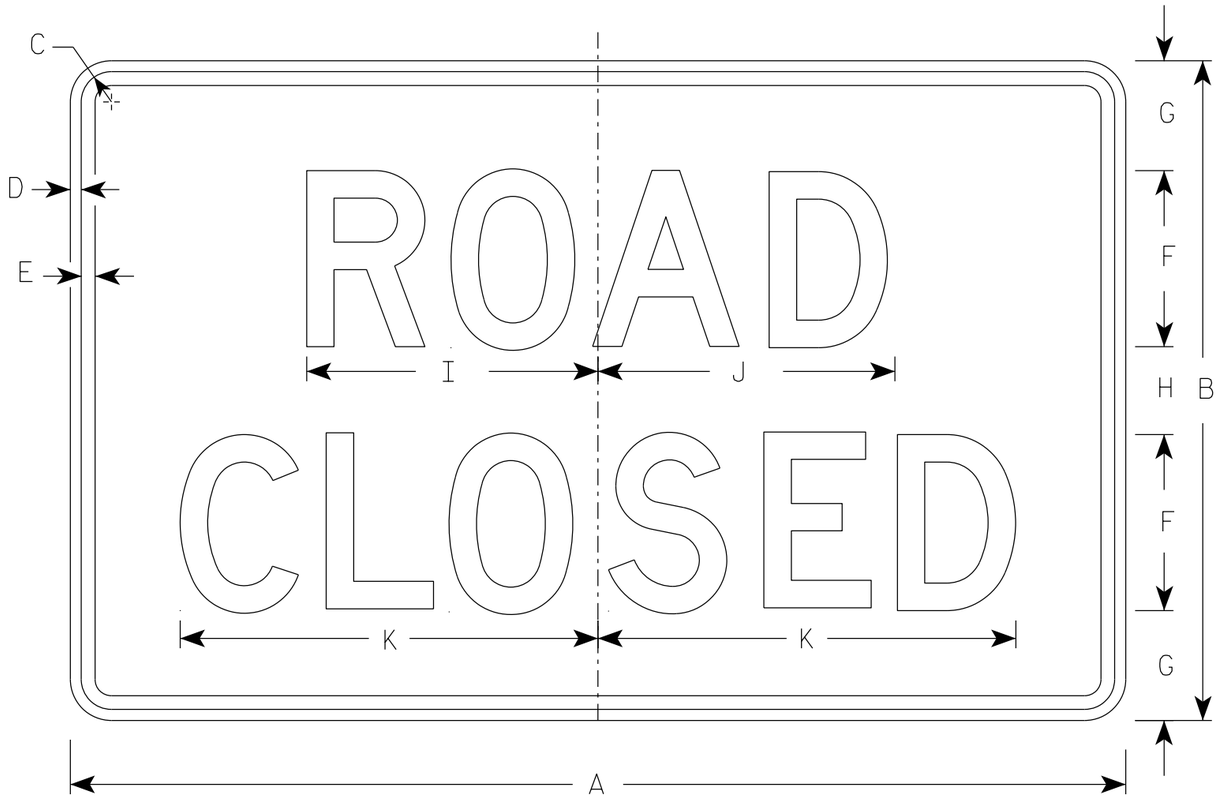
STANDARD SIGN
R10-11B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-11B.4

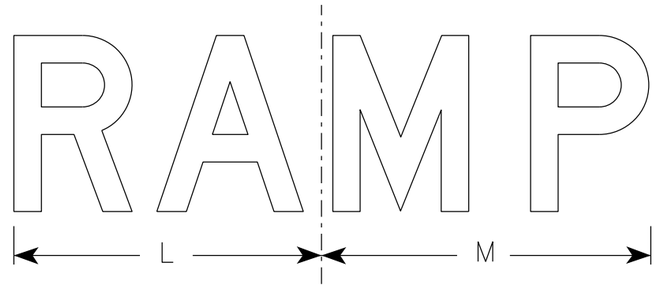
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 637 | E



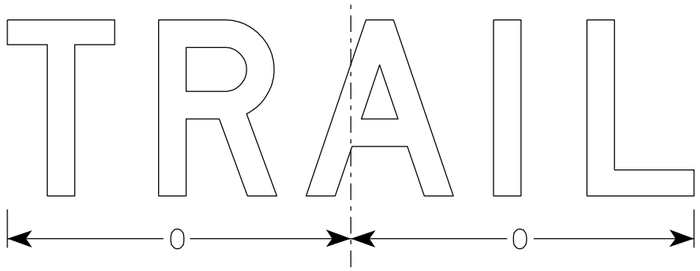
R11-2

NOTES

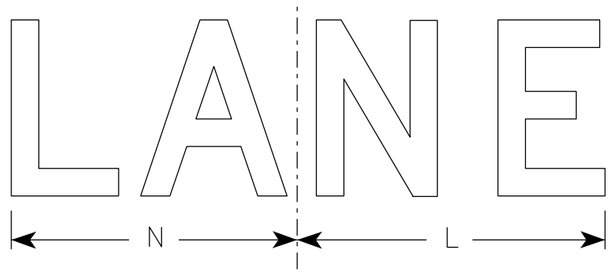
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

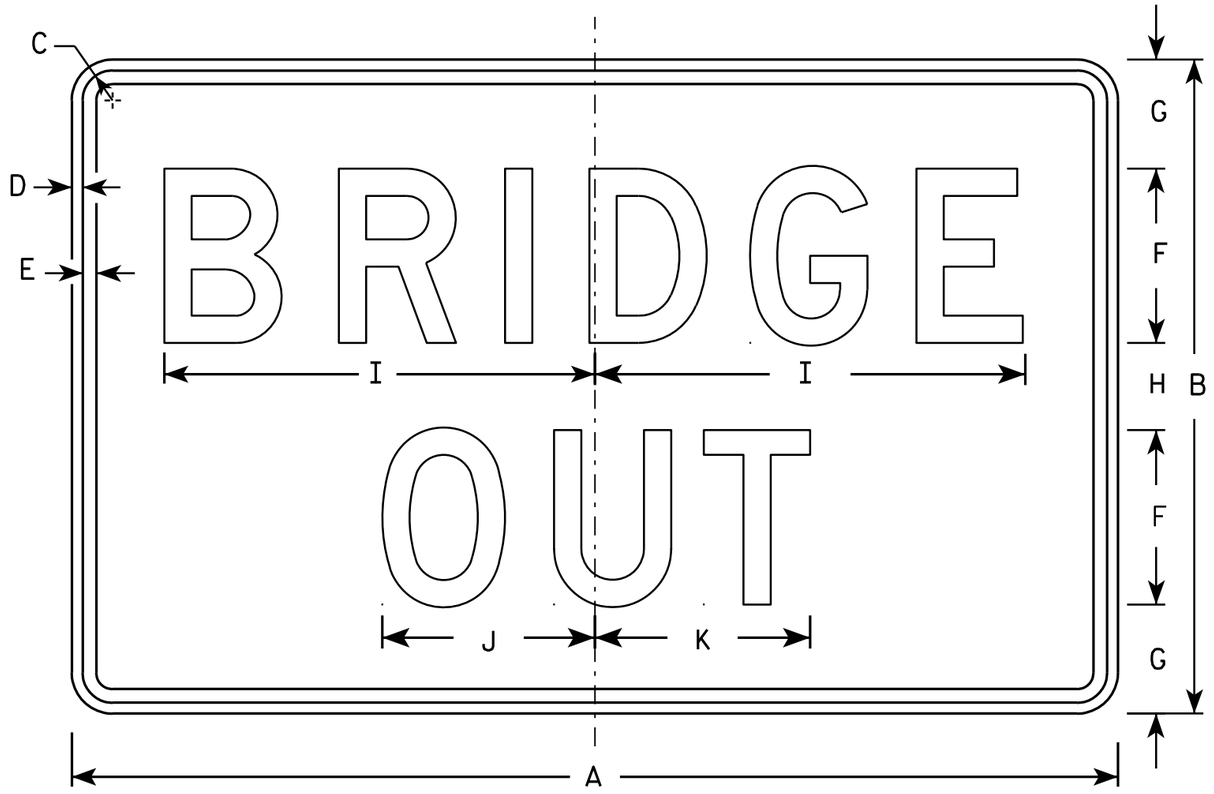
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 638 E



R11-2B

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																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0

STANDARD SIGN
R11-2B

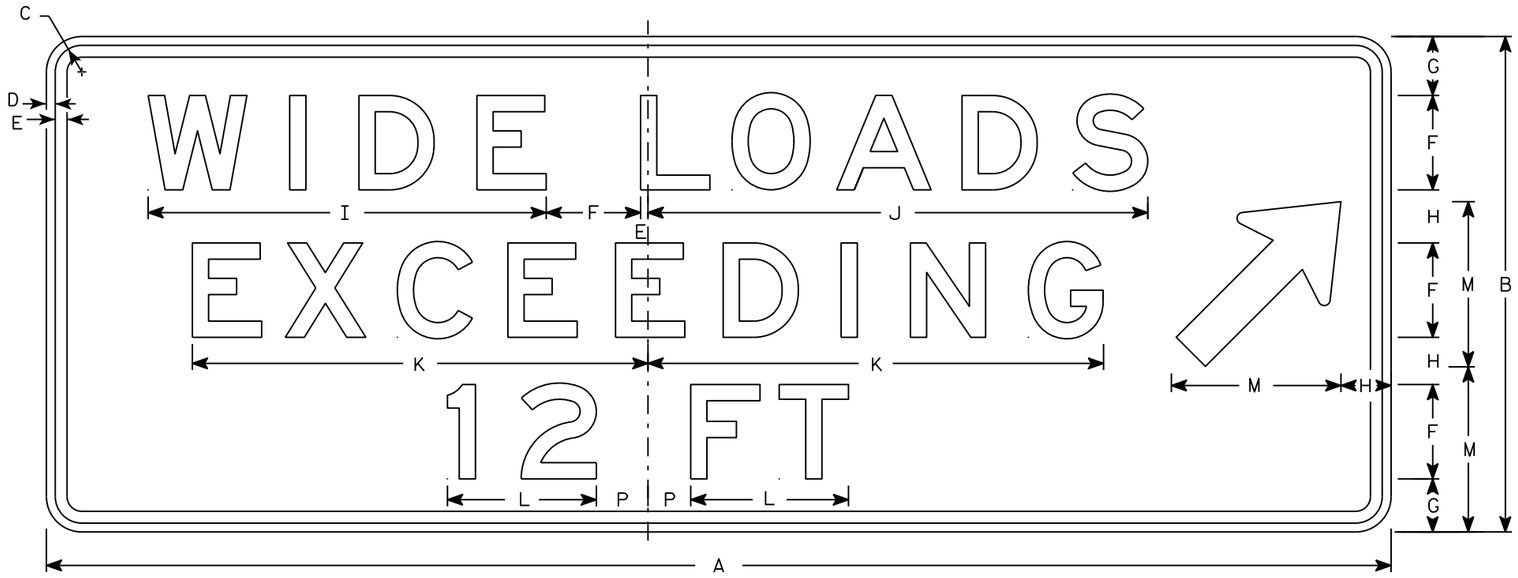
WISCONSIN DEPT OF TRANSPORTATION

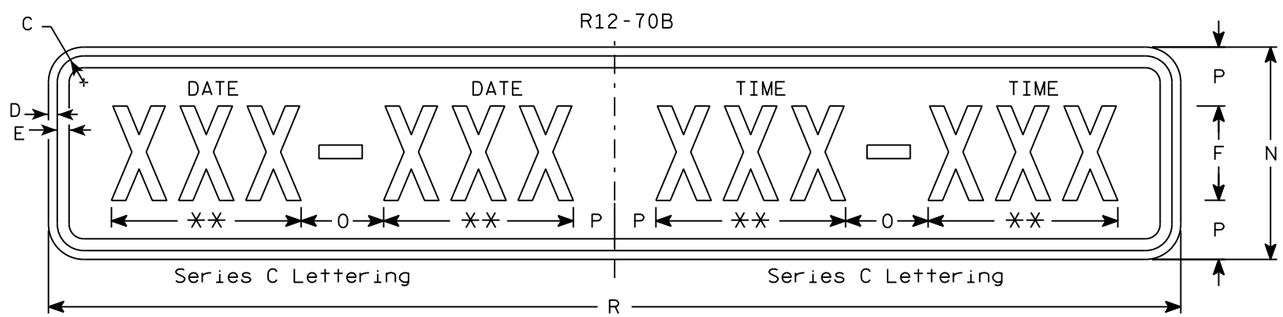
APPROVED Matthew R Rauch
For State Traffic Engineer

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

PROJECT NO:

SHEET NO: 639 E





R12-70C

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	R12-70 Area sq. ft.	R12-70C Area sq. ft.
1																												
2S	90	36	2 1/4	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	12	6	3		66									22.5	5.5
2M	90	36	2 1/4	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	12	6	3		66									22.5	5.5
3																												
4	114	42	2 1/4	3/4	1	8	5	4	34	42	39	13	14	18	7	3 1/2		96									36.75	12.0
5	114	42	2 1/4	3/4	1	8	5	4	34	42	39	13	14	18	7	3 1/2		96									36.75	12.0

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 except as noted
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.

** Substitute appropriate message, optically center message

TYPICAL SIGN
R12-70B

WISCONSIN DEPT OF TRANSPORTATION

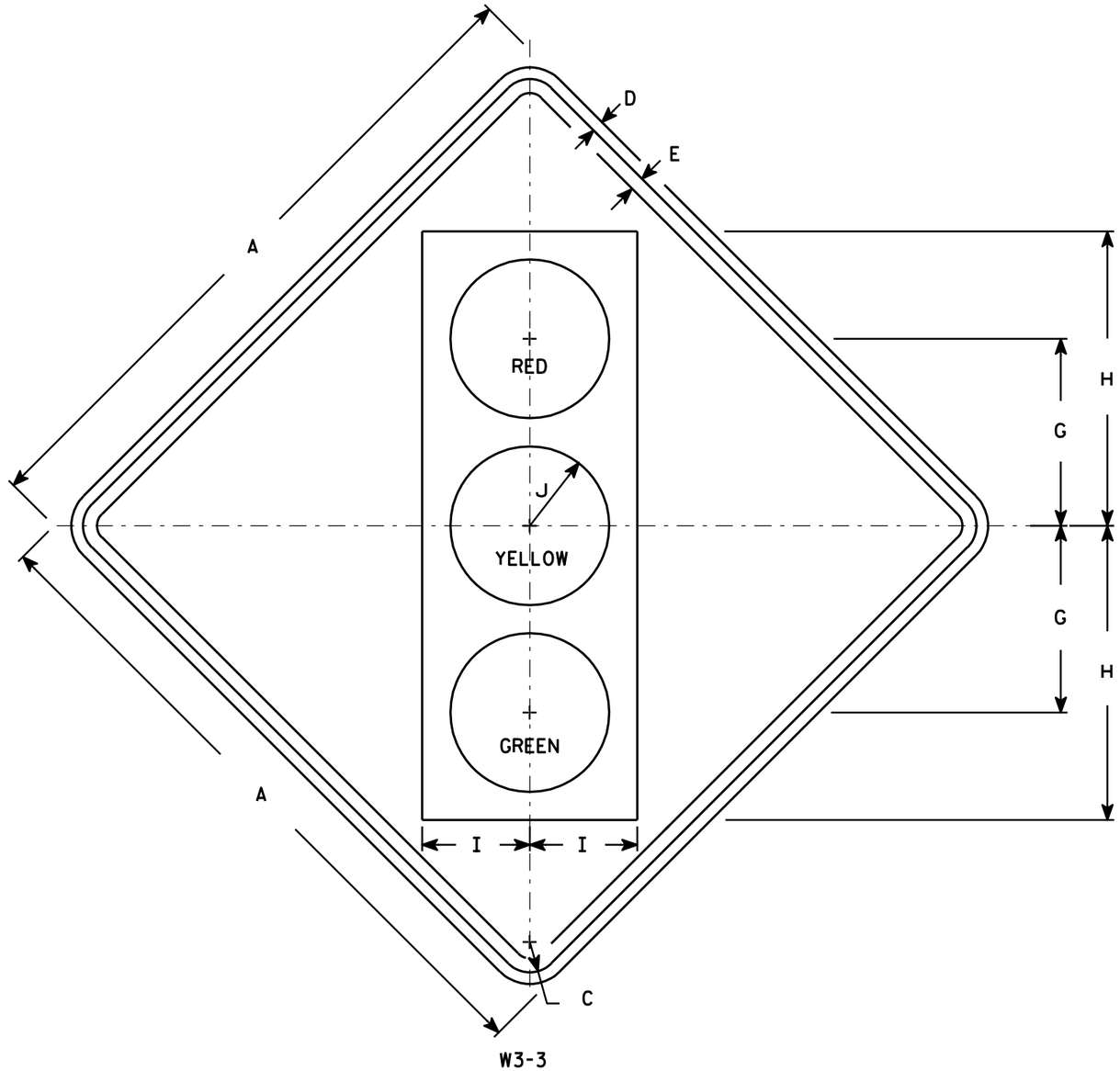
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/15 PLATE NO R12-70B.3

640

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R1270B.DGN PLOT DATE : 01-DEC-2015 18:10 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 12.842555:1.000000



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

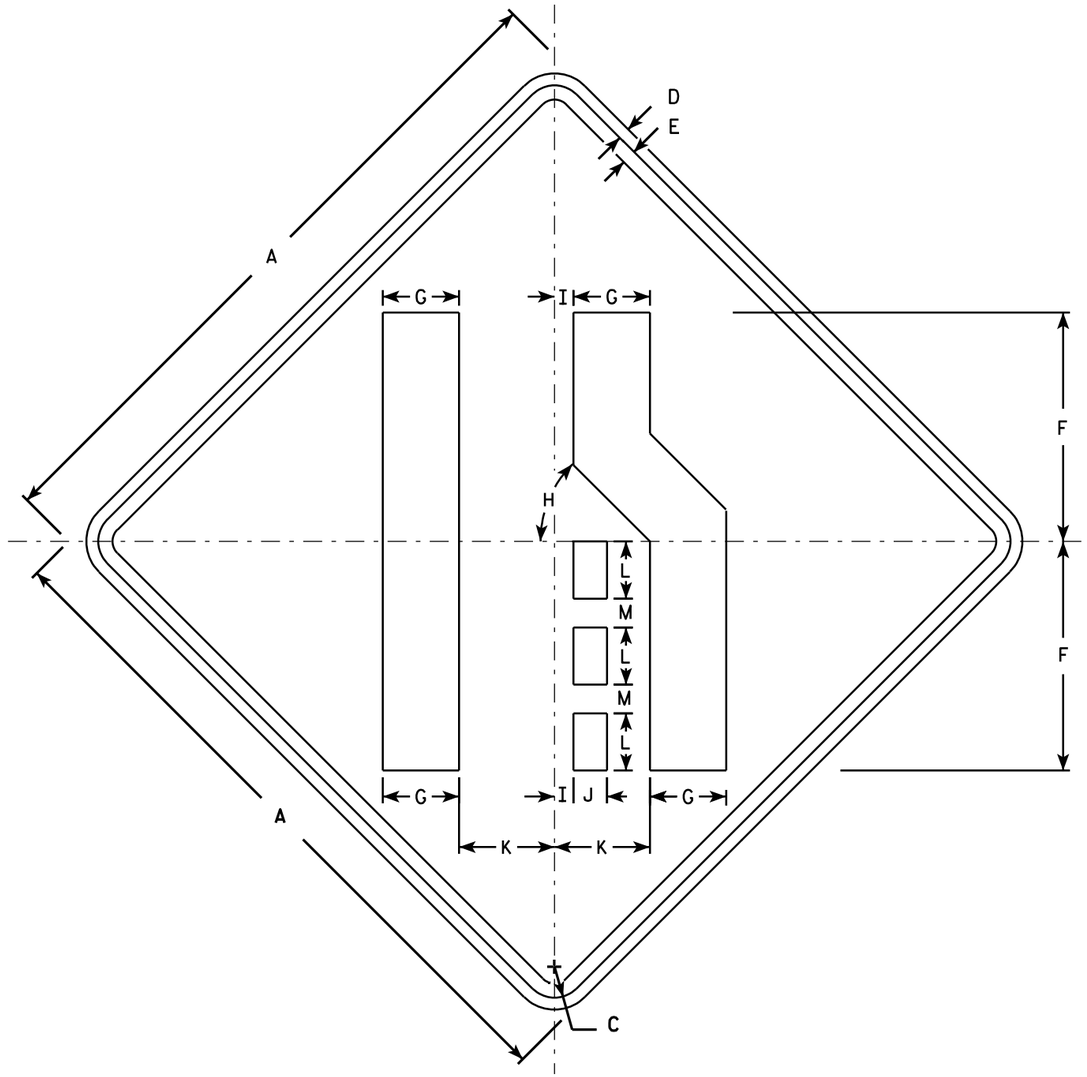
STANDARD SIGN
W3-3

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: 641 | E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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.
4. W4-2L is the same as W4-2R 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	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
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
W4-2

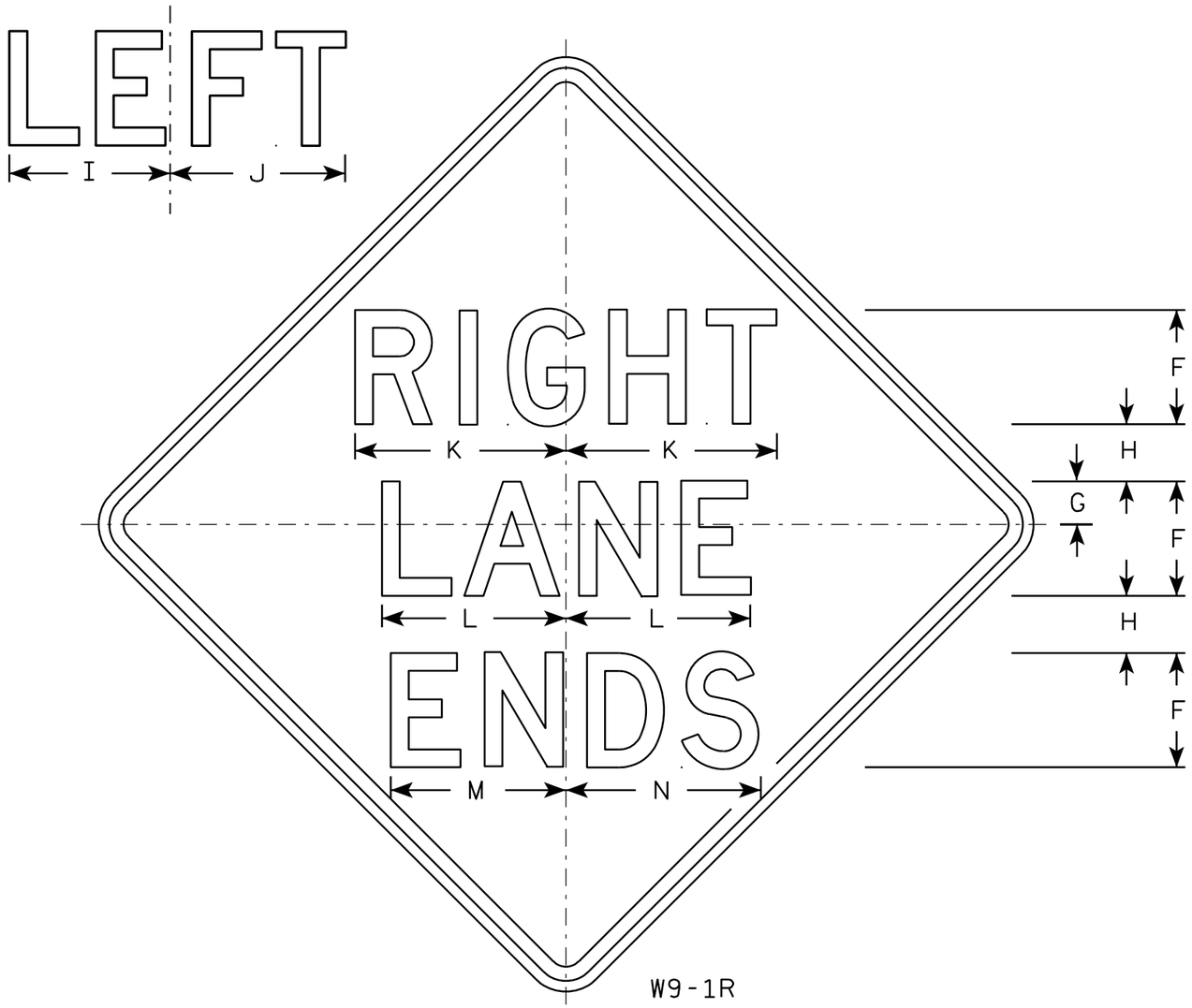
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 642 E



W9-1R

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. 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. W9-1L same as W9-1R except the word Left replaces 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	30		1 3/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 03/18/13 PLATE NO. W9-1.8

PROJECT NO:

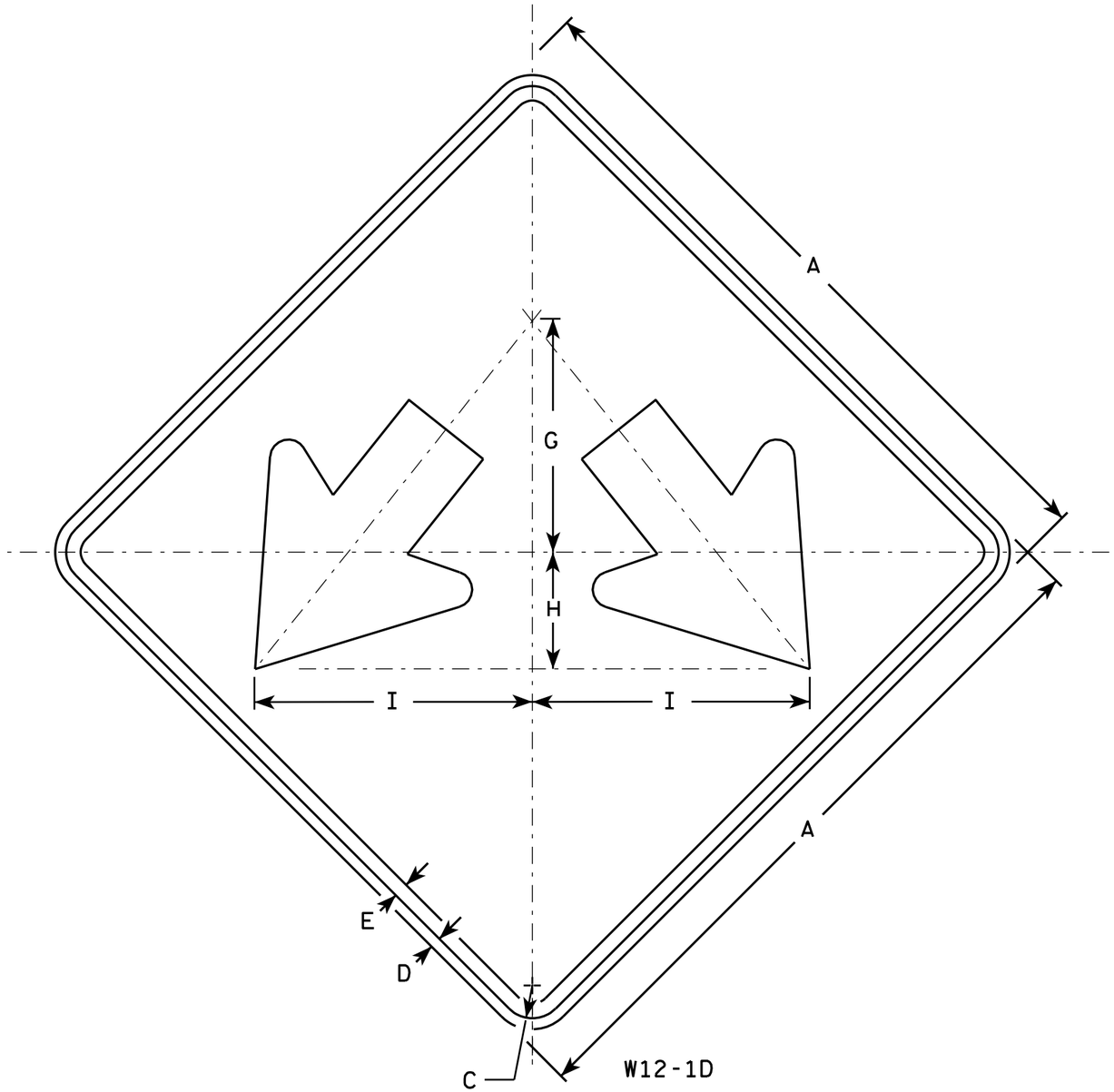
SHEET NO: 643 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

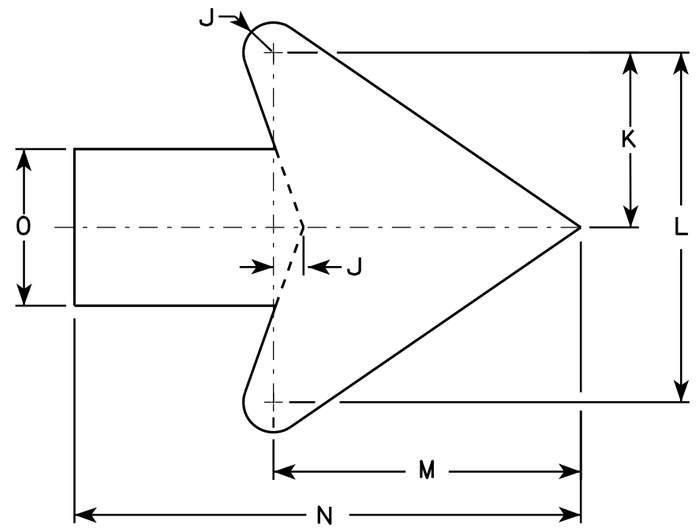
7

7



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.



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		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	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

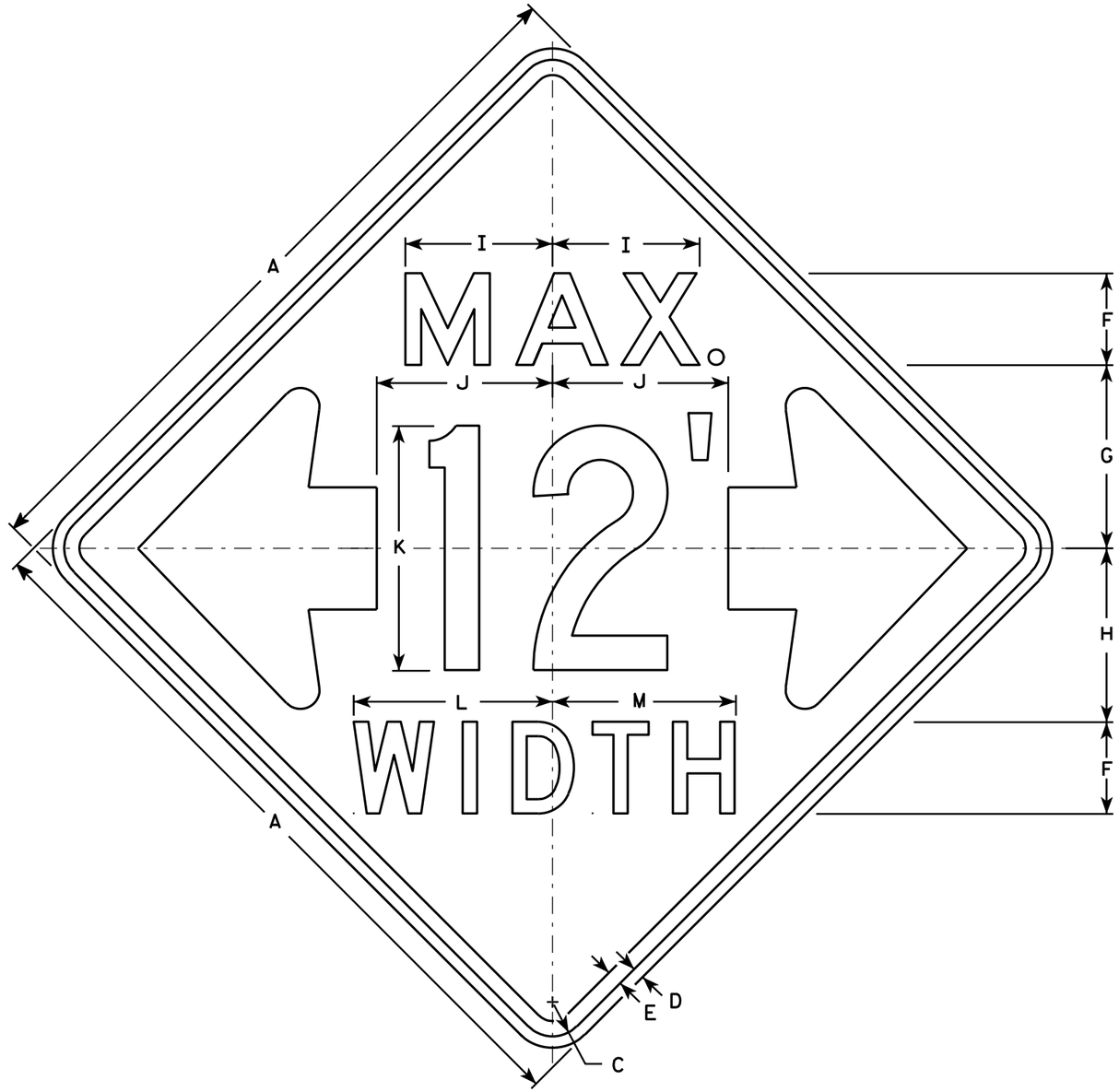
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 644	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W121D.DGN PLOT DATE : 13-MAR-2013 13:26 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 4.713802:1.000000

WISDOT/CADDS SHEET 42

7

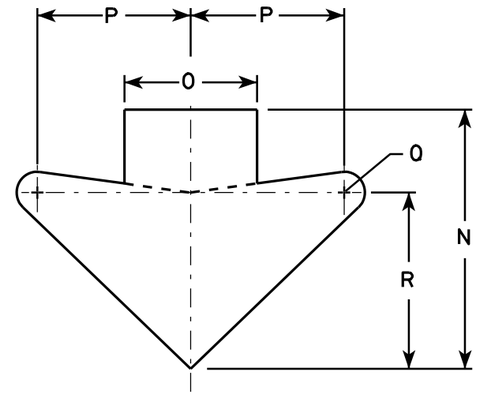
7



W12-52

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. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



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	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

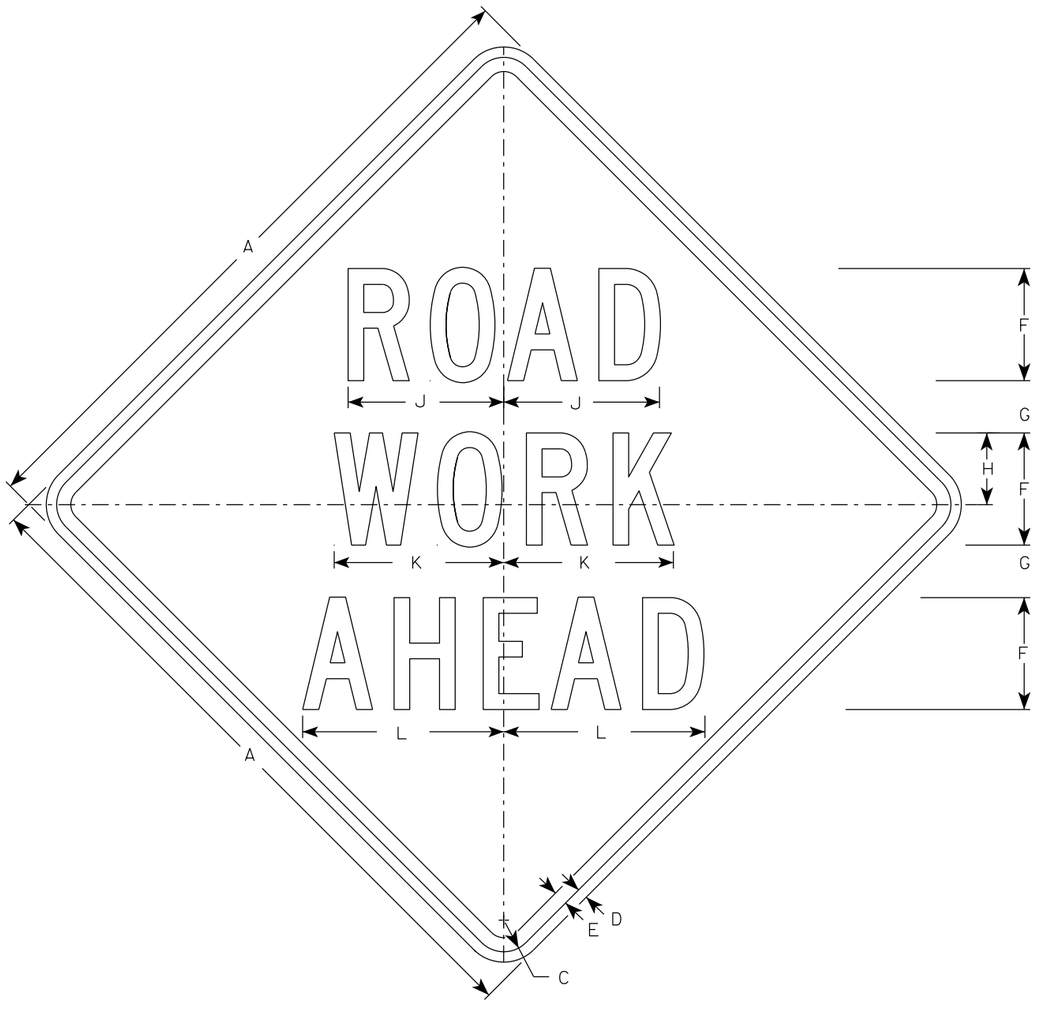
STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

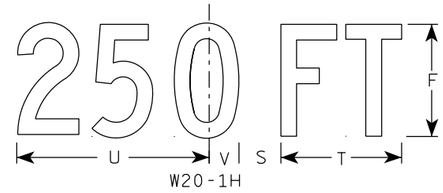
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

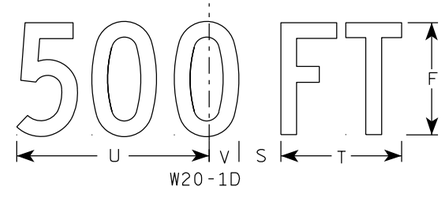
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 645	E



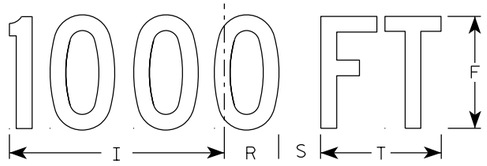
W20-1A



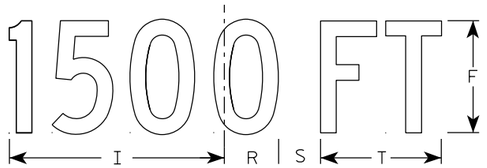
W20-1H



W20-1D



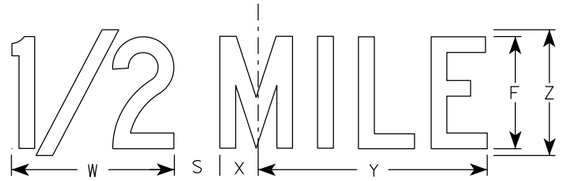
W20-1C



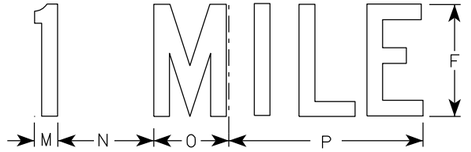
W20-1B

NOTES

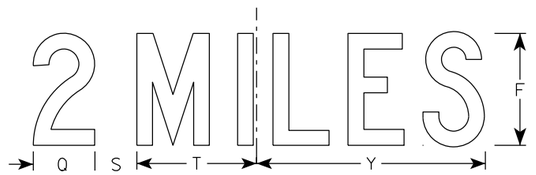
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



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:

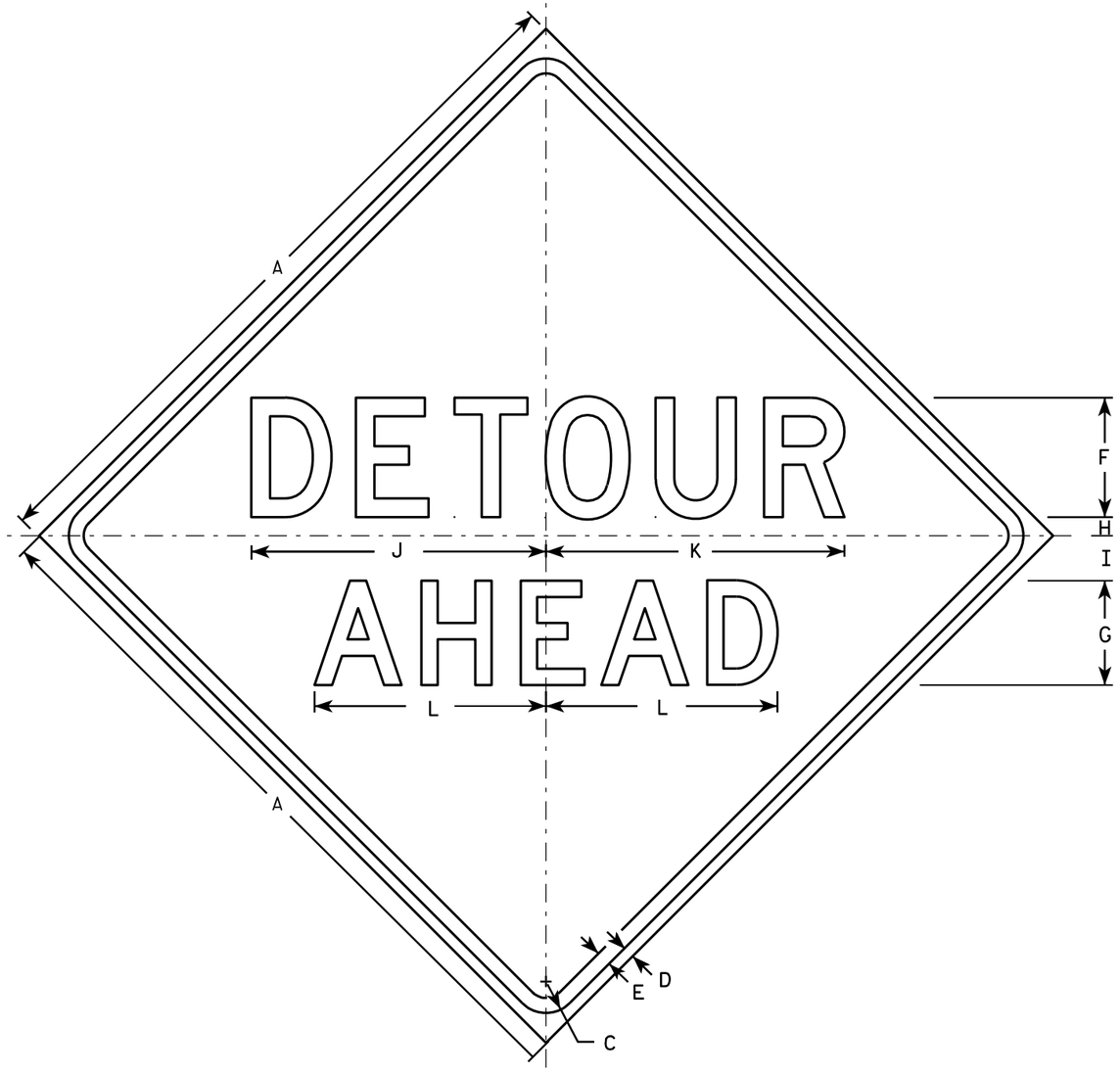
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

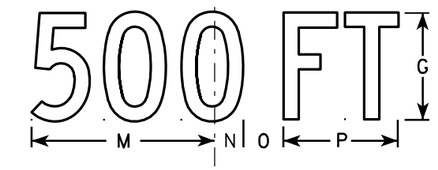
WISDOT/CADDS SHEET 42

7

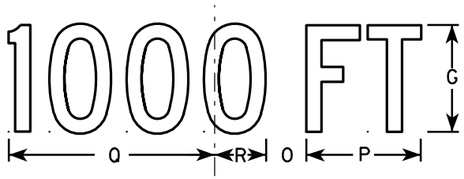
7



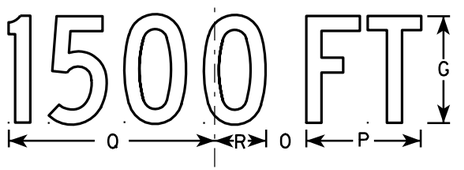
W20-2A



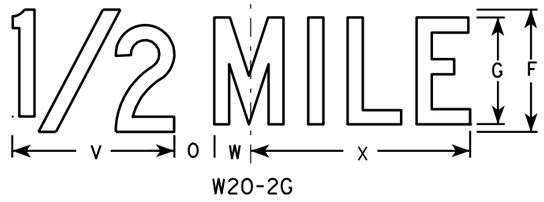
W20-2D



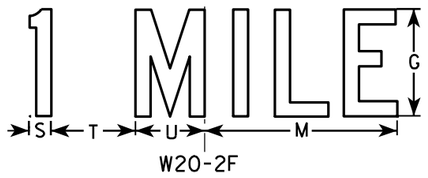
W20-2C



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	O	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

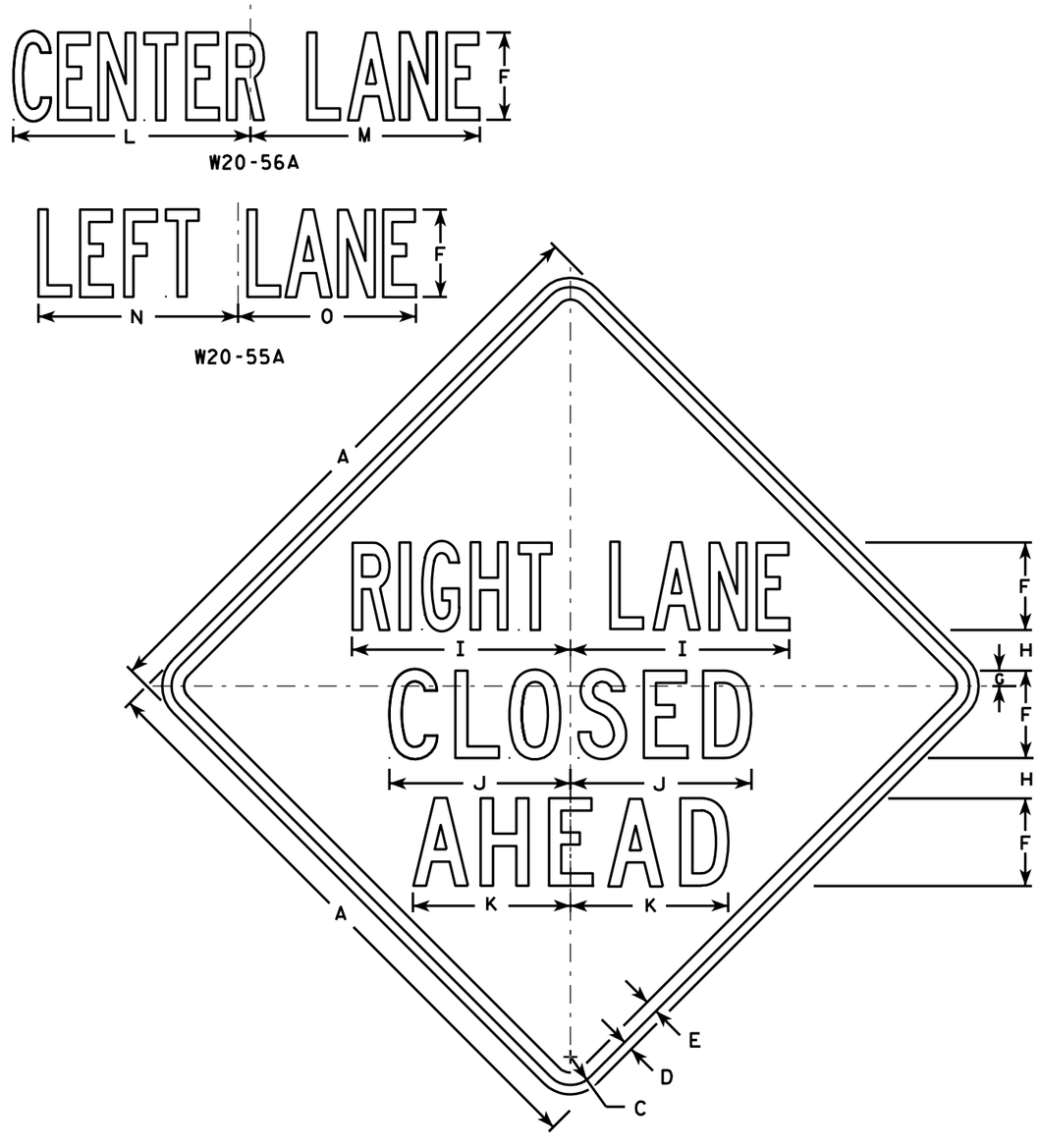
STANDARD SIGN
W20-2A,B,C,D,F & G

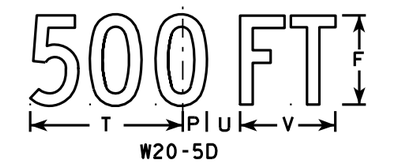
WISCONSIN DEPT OF TRANSPORTATION

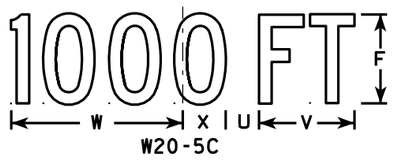
APPROVED Matthew R Rauch
for State Traffic Engineer

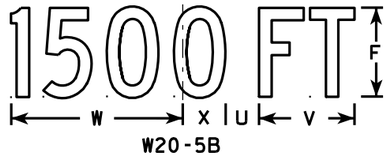
DATE 3/18/11 PLATE NO. W20-2.6

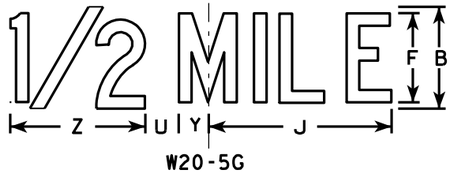
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 647	E

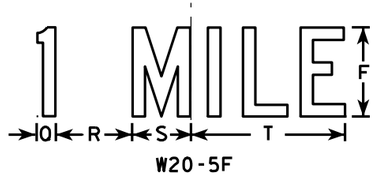












NOTES

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

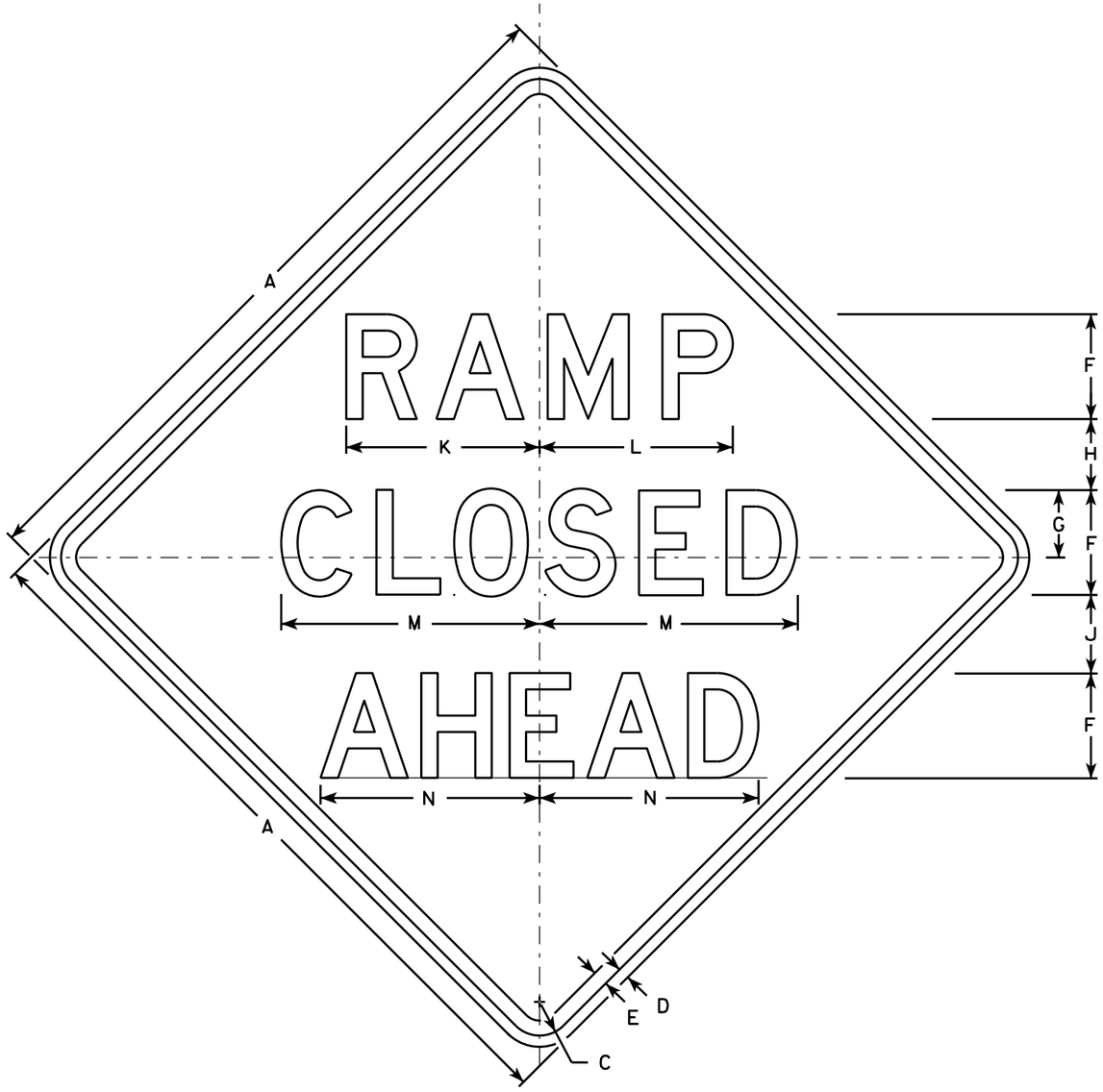
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

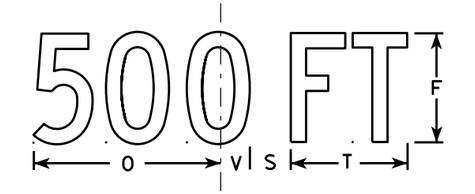
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 648	E

7

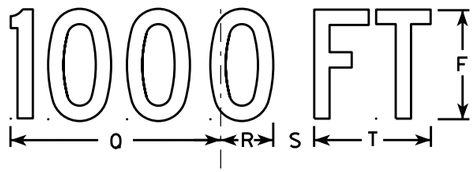
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



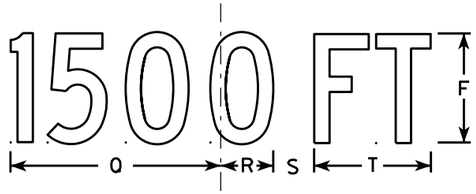
W20-53A



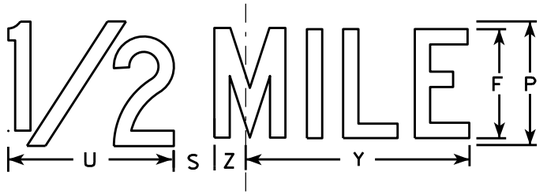
W20-53D



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

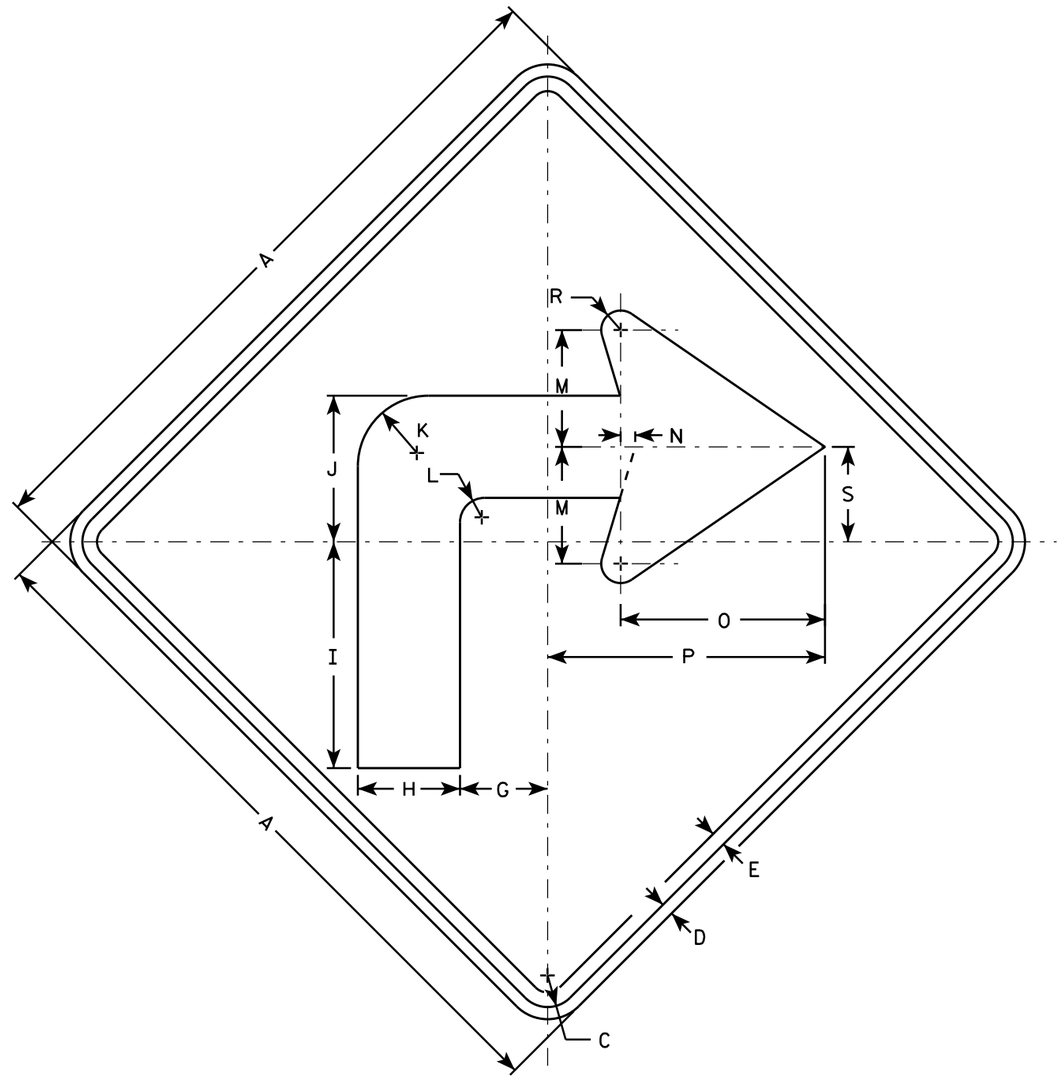
WISCONSIN DEPT OF TRANSPORTATION

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



W01-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-1L is the same as W01-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
2S	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
2M	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
3	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0

STANDARD SIGN
W01-1

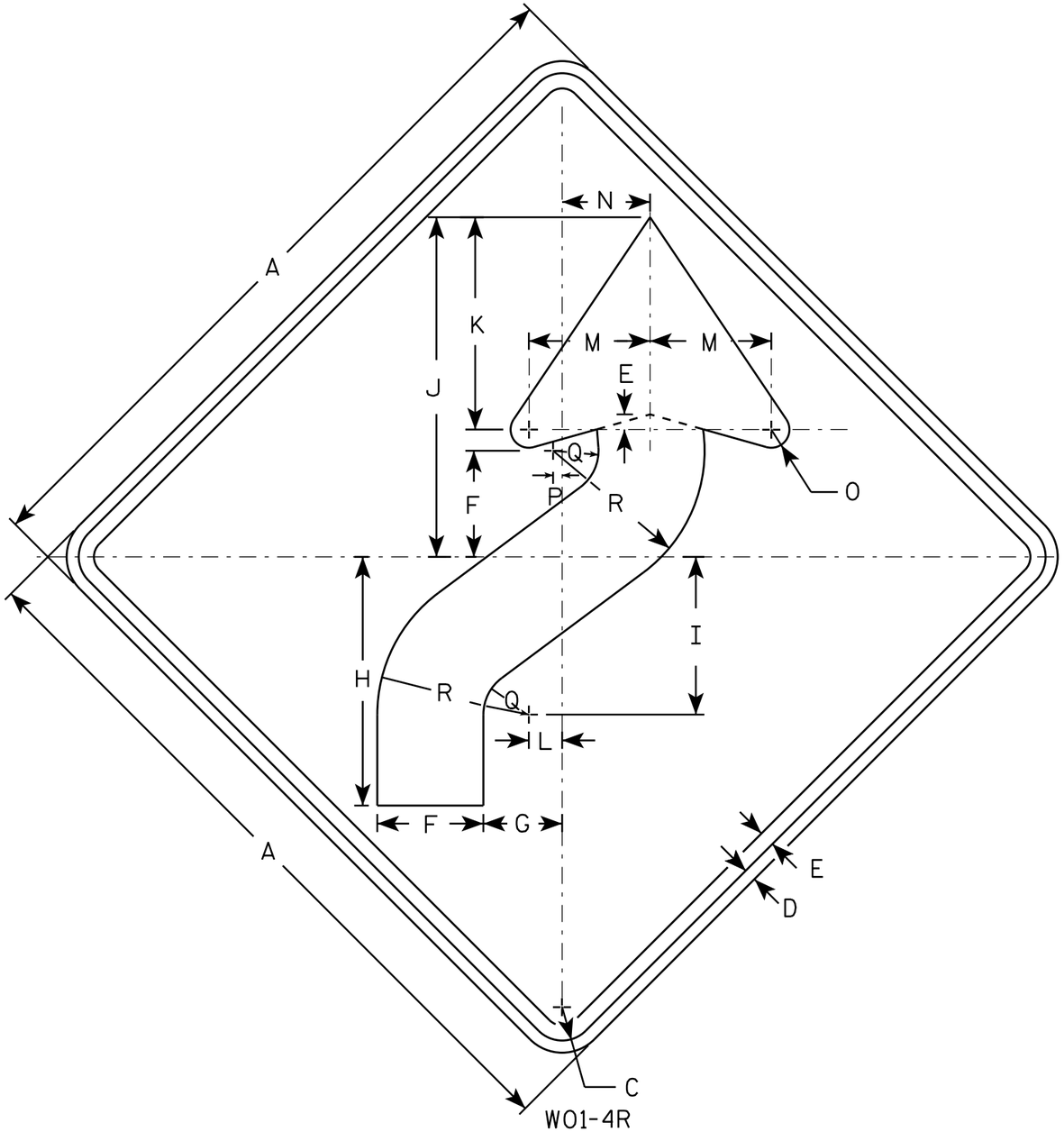
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-1.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W011.DGN PLOT DATE : 28-FEB-2014 11:34 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 7.783368:1.000000
WISDOT/CADDS SHEET 42



W01-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

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 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
W01-4

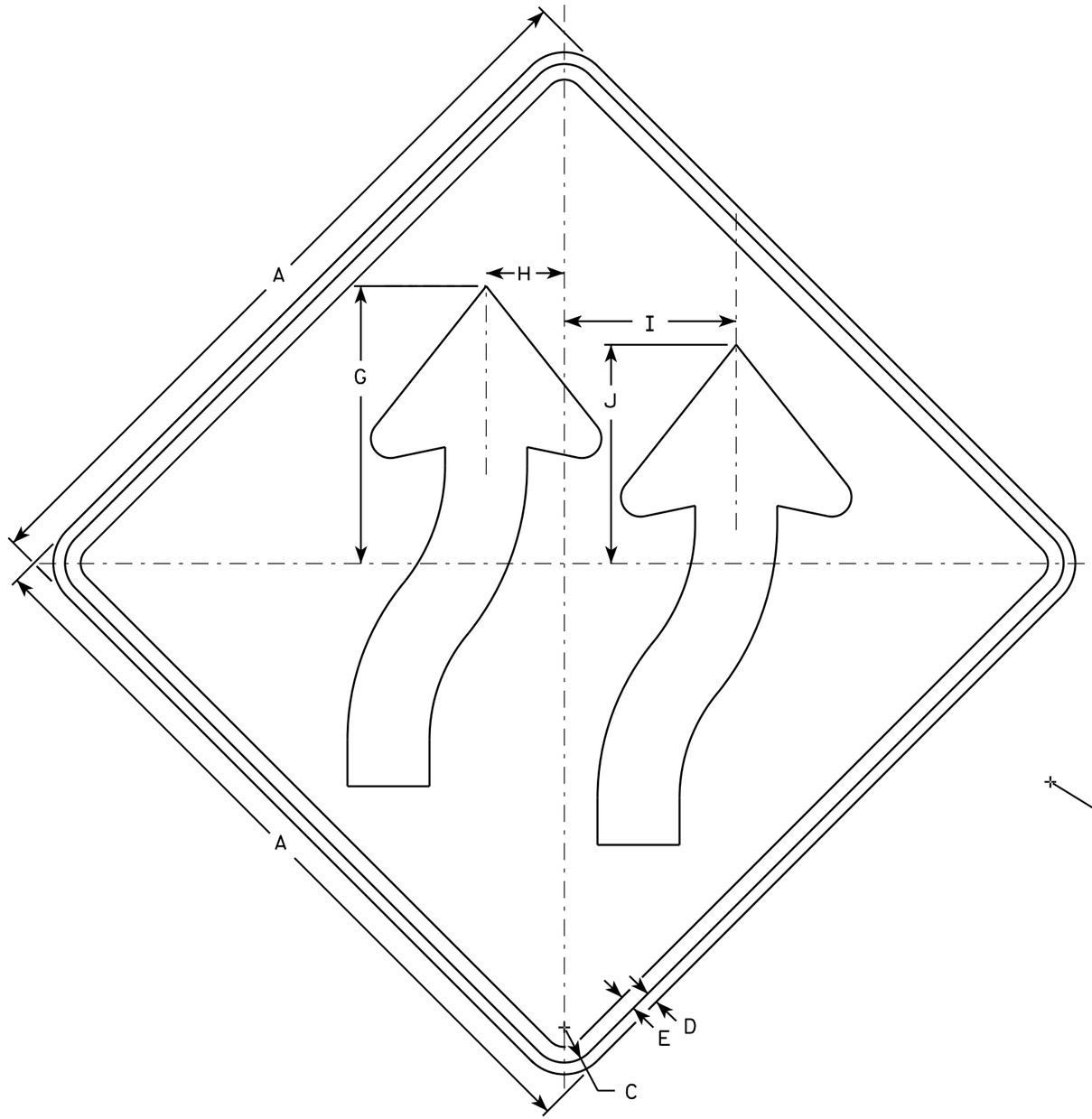
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

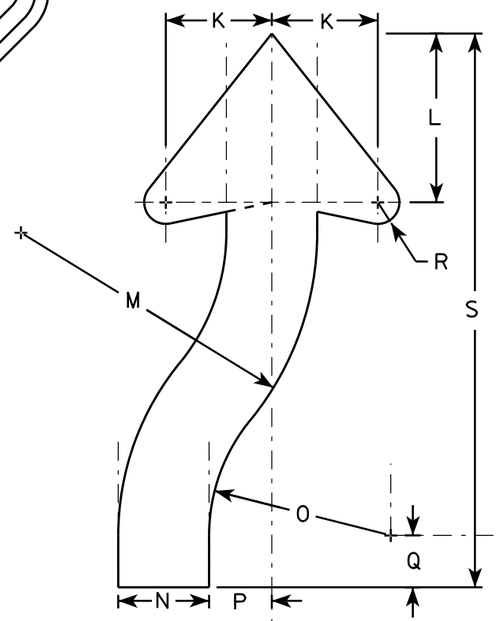
DATE 11/18/13 PLATE NO W01-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000 WISDOT/CADDS SHEET 42



W01-4bR



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4bL is the same as W014-bR exept arrows are 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		13 3/8	3 3/4	8 1/4	10 1/2	4 5/8	7 3/8	12 7/8	3 7/8	7 7/8	2 3/4	2 1/4	7/8	24								9.0
2S	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
2M	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
3	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
4	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
5	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0

STANDARD SIGN
W01-4b

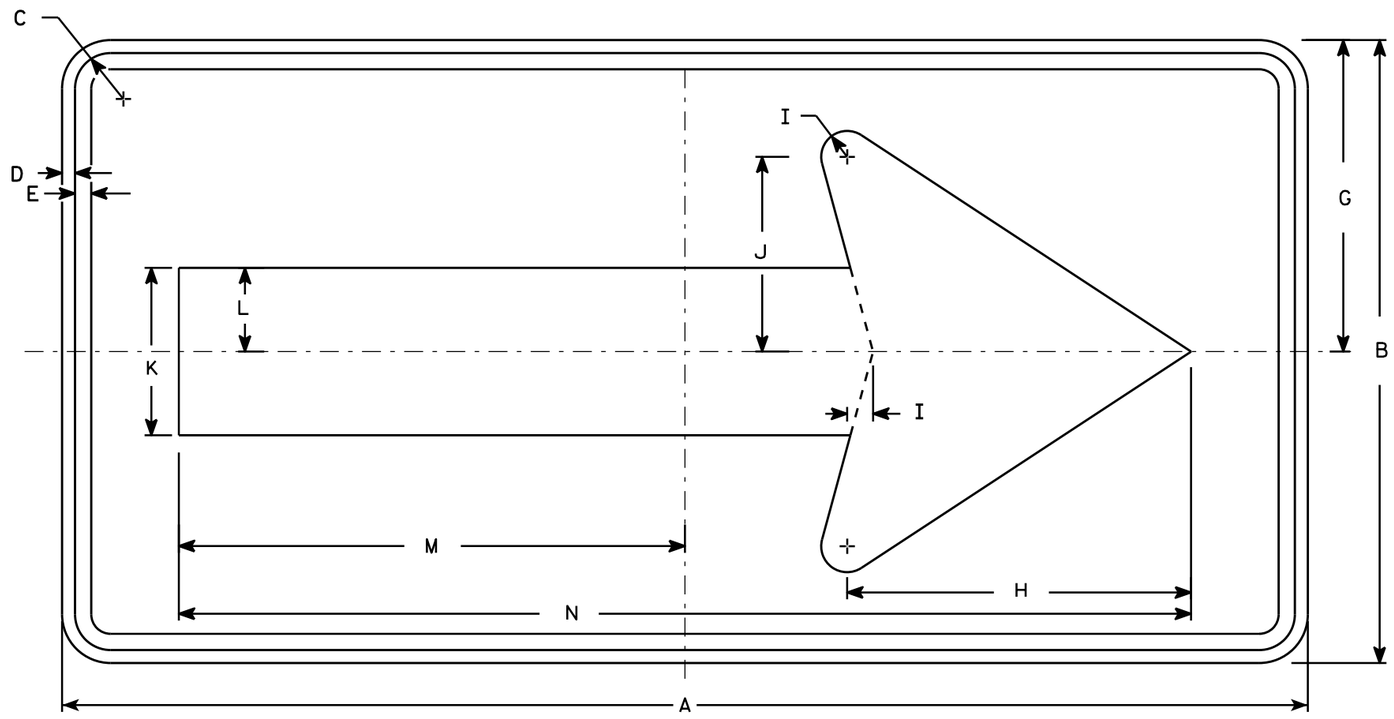
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-4b.1

652

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 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	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

STANDARD SIGN
W01-6

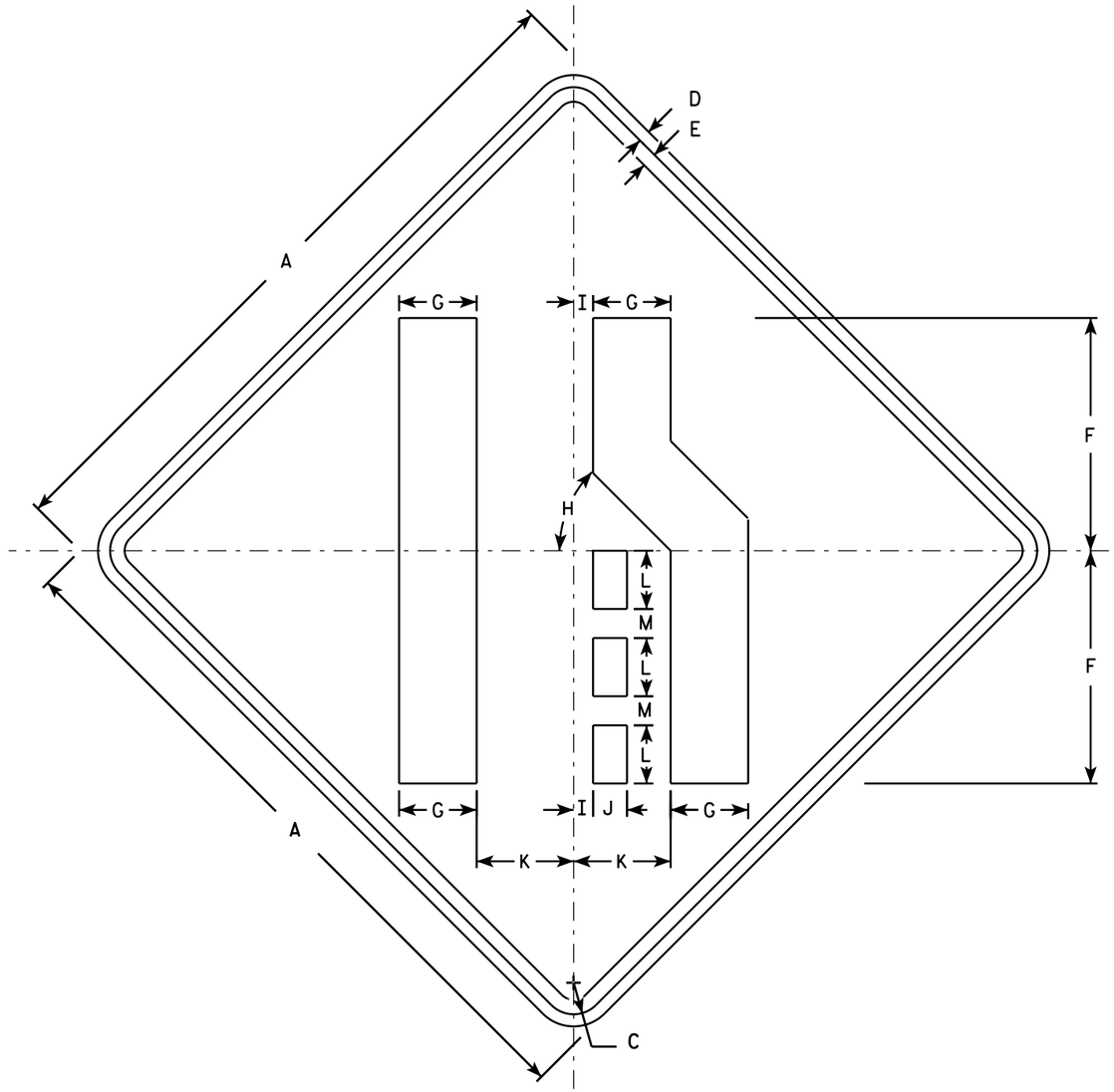
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000
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

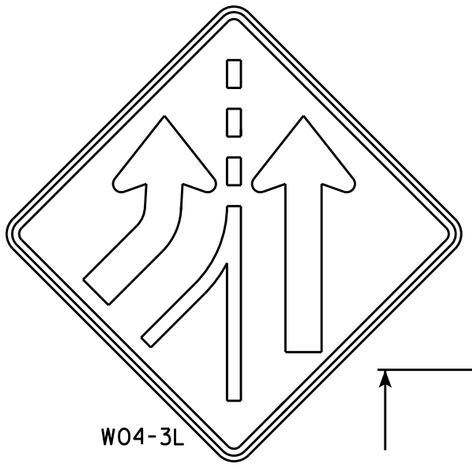
STANDARD SIGN
W04-2

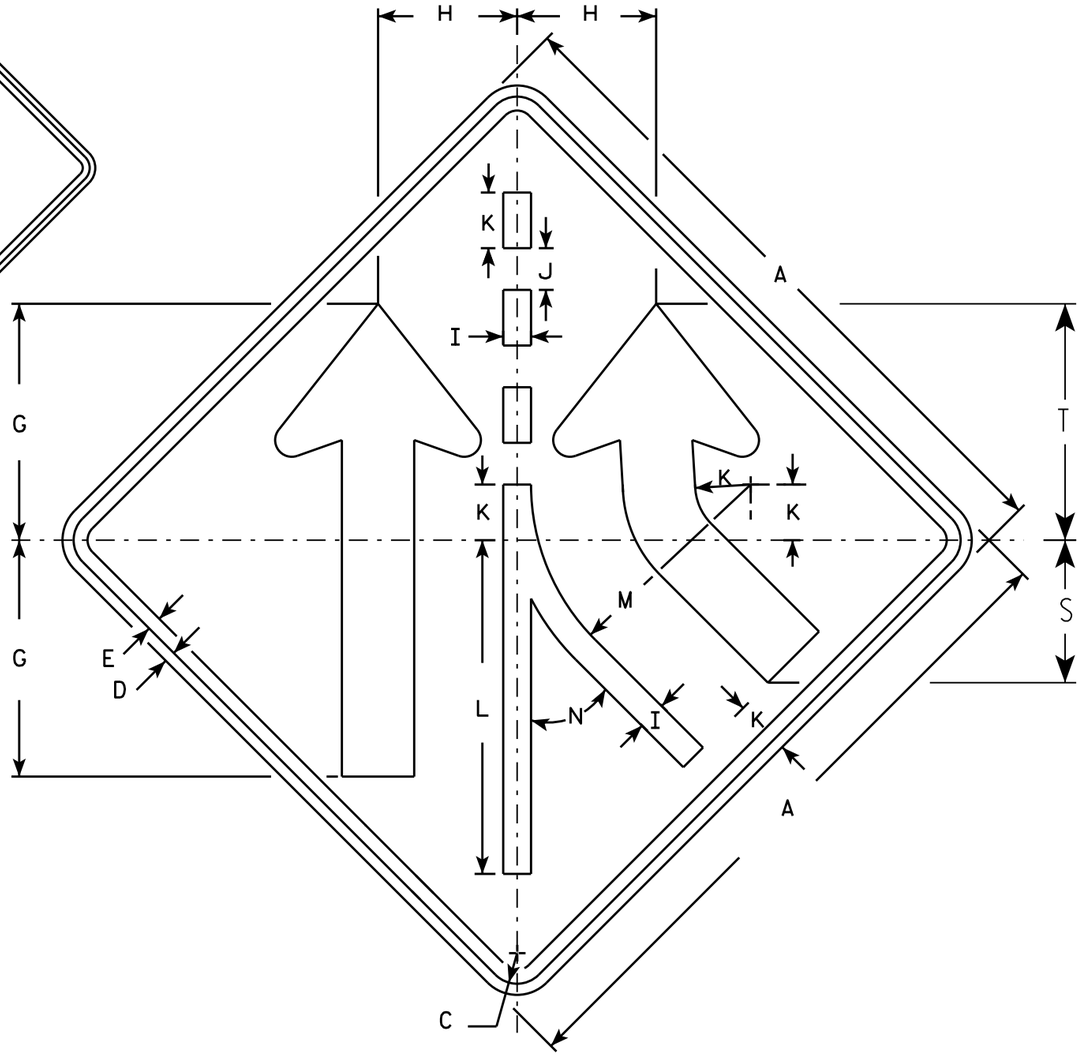
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 654 W04-2.1

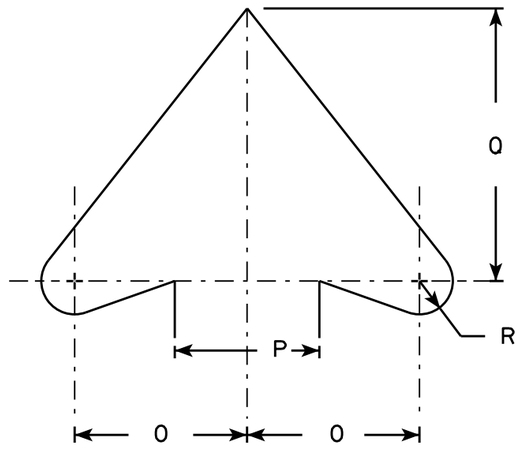
PROJECT NO: | SHEET NO: E





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. W04-3 L is the same as W04-3 R except the arrow is reversed along the vertical centerline.



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	36		1 5/8	5/8	3/4		12 3/4	7 1/2	1 1/2	2 1/4	3	18	11 7/8	45°	4 5/8	4	7 3/8	7/8	7 3/4	12 3/4							9.0
2S	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
2M	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
3	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
4	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
5	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0

STANDARD SIGN

W0433

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

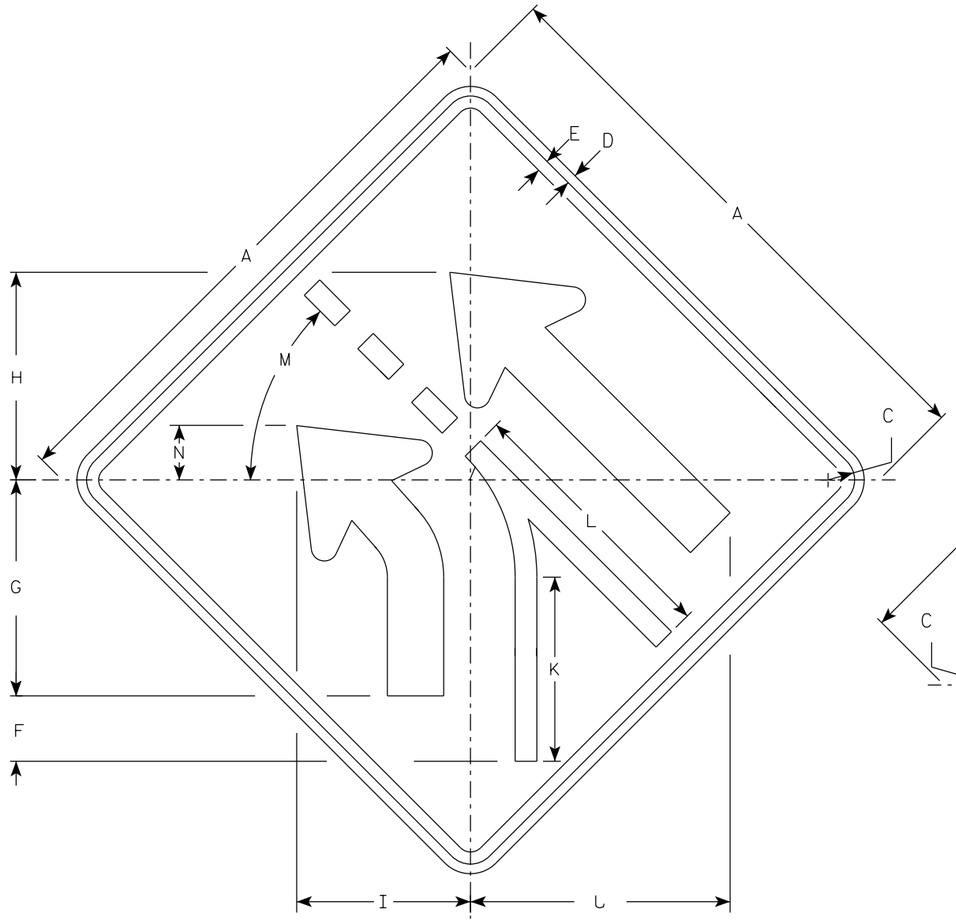
DATE 11/20/13 PLATE NO. W04-3.1

PROJECT NO:

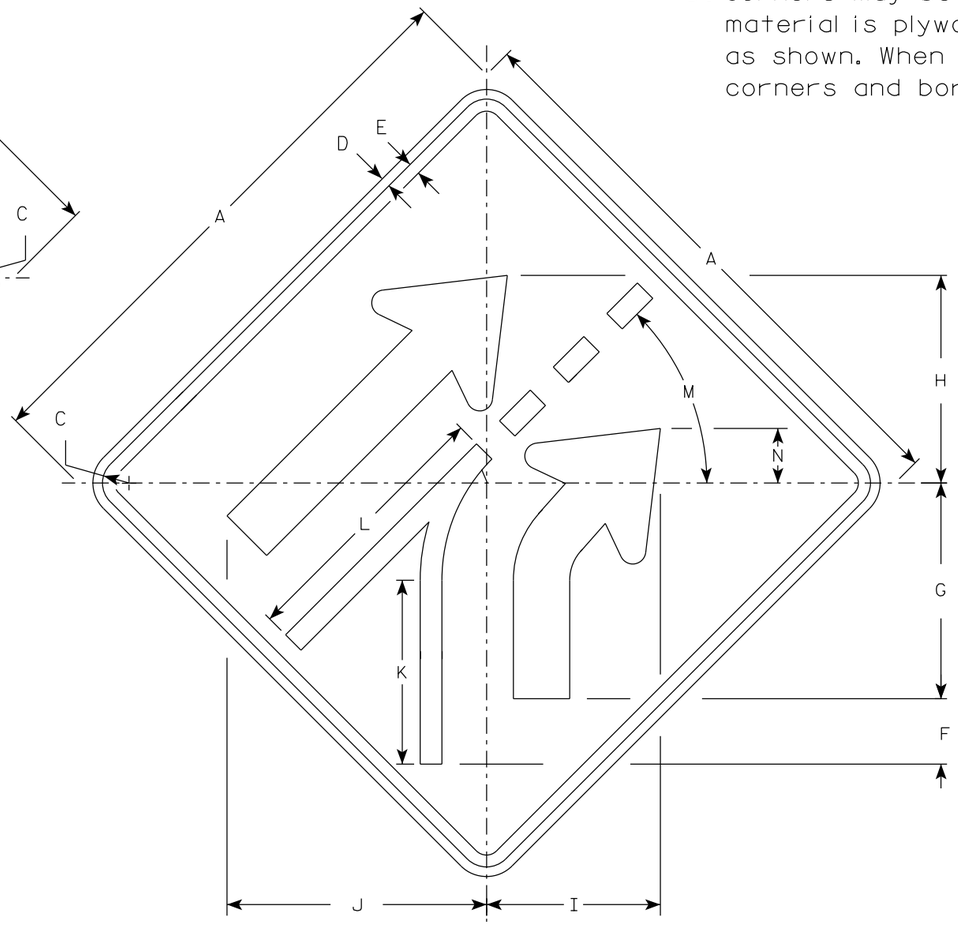
SHEET NO: E

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.



W04-6L



W04-6R

* Scale and Rotate W04-3 and make modifications.

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	4	13 1/2	13	10 7/8	16 1/4	11 1/2	16 7/8	45°	3 3/8													9.0
2S	48		2 1/4	3/4	1	5 3/8	18	17 1/4	14 1/2	21 5/8	15 1/4	22 1/2	45°	4 1/2													16.0
2M	48		2 1/4	3/4	1	5 3/8	18	17 1/4	14 1/2	21 5/8	15 1/4	22 1/2	45°	4 1/2													16.0
3	48		2 1/4	3/4	1	5 3/8	18	17 1/4	14 1/2	21 5/8	15 1/4	22 1/2	45°	4 1/2													16.0
4	48		2 1/4	3/4	1	5 3/8	18	17 1/4	14 1/2	21 5/8	15 1/4	22 1/2	45°	4 1/2													16.0
5	48		2 1/4	3/4	1	5 3/8	18	17 1/4	14 1/2	21 5/8	15 1/4	22 1/2	45°	4 1/2													16.0

STANDARD SIGN
W04-6

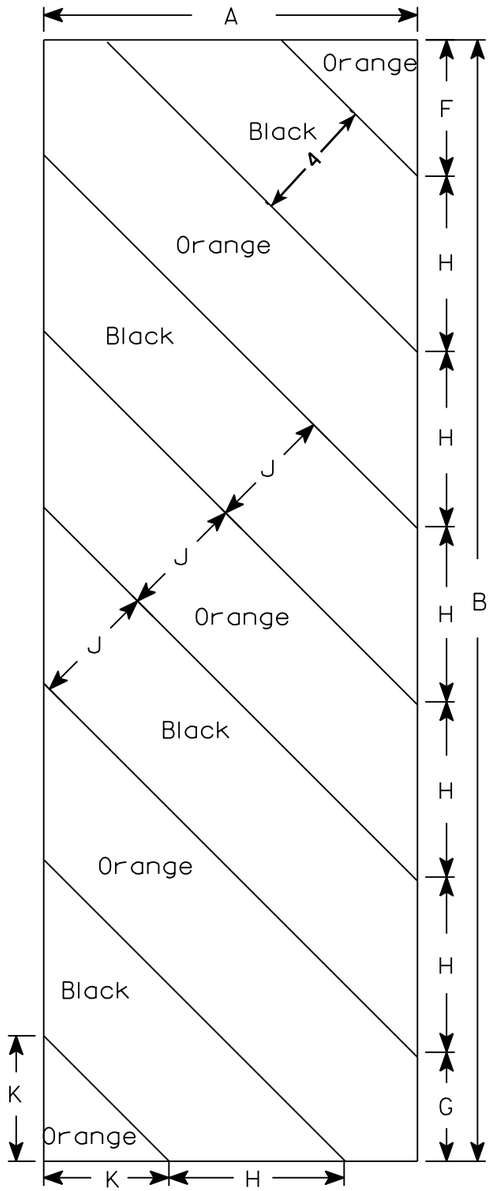
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

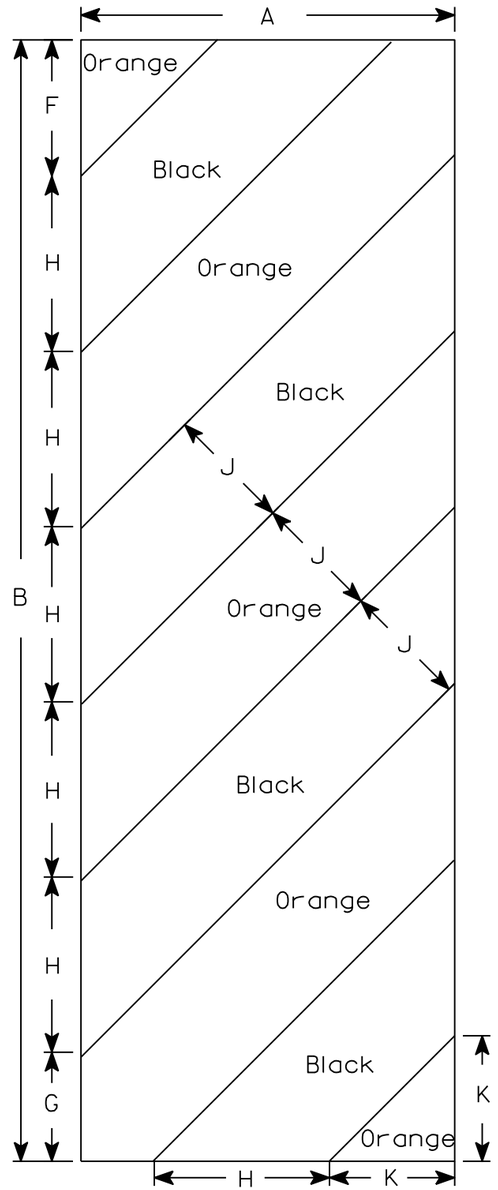
DATE 3/30/2021 PLATE NO. W04-6.1

PROJECT NO:

SHEET NO: 656 E



W05-52L



W05-52R

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. Alternate colors of stripes as shown.

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	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

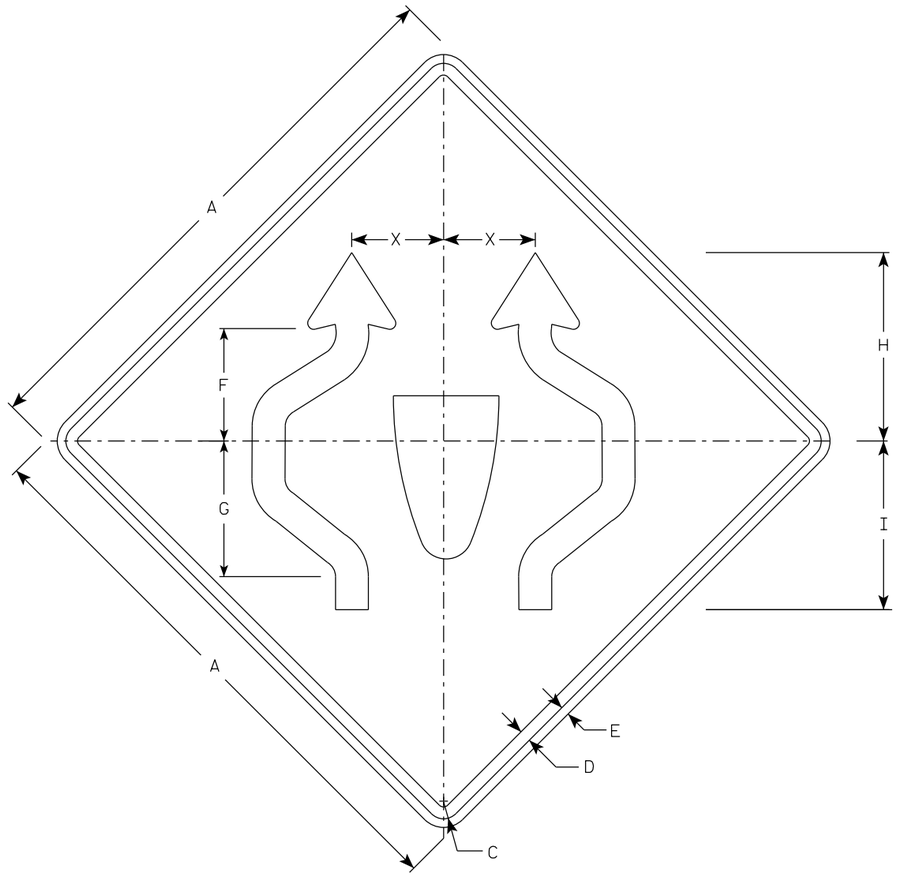
W05-52L & W05-52R

WISCONSIN DEPT OF TRANSPORTATION

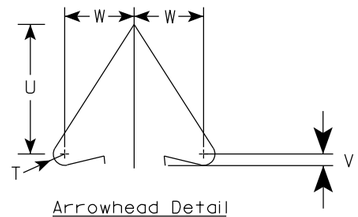
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W05-52.1

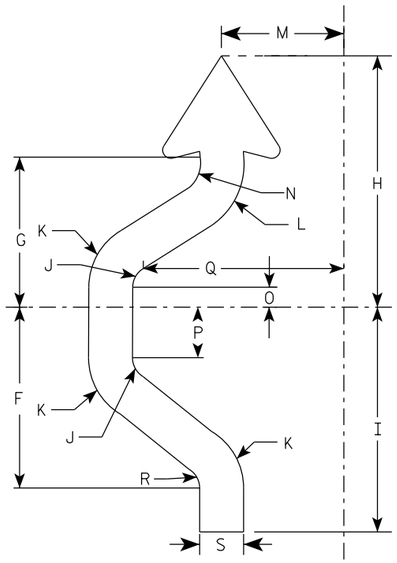
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W06-50



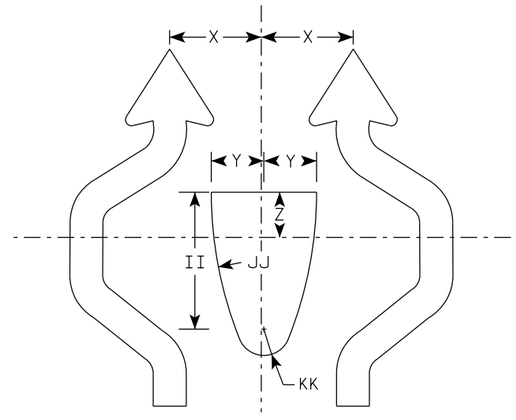
Arrowhead Detail



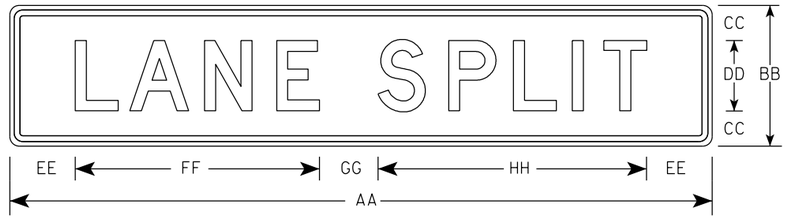
Arrow Detail

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Median Detail



W06-50P

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	W06-50 Area sq. ft.	W06-50P Area sq. ft.
1																												
2S	48		2 1/4	1	3/4	9 5/8	11 5/8	16 3/8	14 3/8	1 3/8	4 1/4	4 3/4	7 7/8	2 1/8	1 1/4	3 1/4	12 7/8	1 3/8	2 3/4	1/2	5 3/4	1/2	3 1/4	7 7/8	4 1/2	3 7/8	9.0	5.0
2M	48		2 1/4	1	3/4	9 5/8	11 5/8	16 3/8	14 3/8	1 3/8	4 1/4	4 3/4	7 7/8	2 1/8	1 1/4	3 1/4	12 7/8	1 3/8	2 3/4	1/2	5 3/4	1/2	3 1/4	7 7/8	4 1/2	3 7/8	9.0	5.0
3	48		2 1/4	1	3/4	9 5/8	11 5/8	16 3/8	14 3/8	1 3/8	4 1/4	4 3/4	7 7/8	2 1/8	1 1/4	3 1/4	12 7/8	1 3/8	2 3/4	1/2	5 3/4	1/2	3 1/4	7 7/8	4 1/2	3 7/8	9.0	5.0
4	48		2 1/4	1	3/4	9 5/8	11 5/8	16 3/8	14 3/8	1 3/8	4 1/4	4 3/4	7 7/8	2 1/8	1 1/4	3 1/4	12 7/8	1 3/8	2 3/4	1/2	5 3/4	1/2	3 1/4	7 7/8	4 1/2	3 7/8	9.0	5.0
5	48		2 1/4	1	3/4	9 5/8	11 5/8	16 3/8	14 3/8	1 3/8	4 1/4	4 3/4	7 7/8	2 1/8	1 1/4	3 1/4	12 7/8	1 3/8	2 3/4	1/2	5 3/4	1/2	3 1/4	7 7/8	4 1/2	3 7/8	9.0	5.0

SIZE	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	MM	NN	OO	PP	QQ	RR	SS	TT	UU	VV	WW	XX	YY	ZZ
1																										
2S	60	12	3	6	5 5/8	20 7/8	5	22 7/8	11 3/4	33 3/4	2 1/4															
2M	60	12	3	6	5 5/8	20 7/8	5	22 7/8	11 3/4	33 3/4	2 1/4															
3	60	12	3	6	5 5/8	20 7/8	5	22 7/8	11 3/4	33 3/4	2 1/4															
4	60	12	3	6	5 5/8	20 7/8	5	22 7/8	11 3/4	33 3/4	2 1/4															
5	60	12	3	6	5 5/8	20 7/8	5	22 7/8	11 3/4	33 3/4	2 1/4															

STANDARD SIGN

W06-50

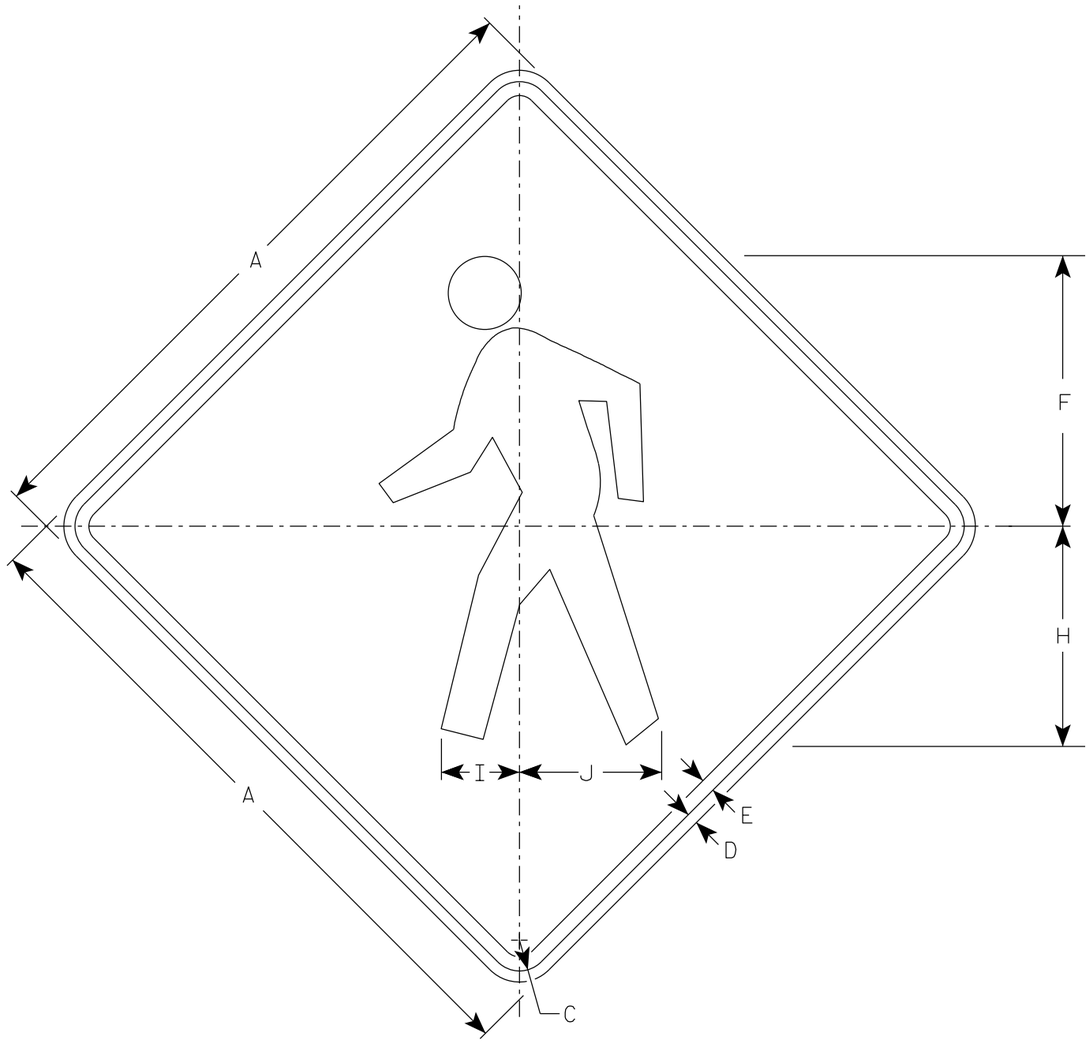
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 4/20/2021 PLATE NO. W06-50.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 658 | E



WO11-2

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
2S	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
2M	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
3	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

STANDARD SIGN

WO11-2

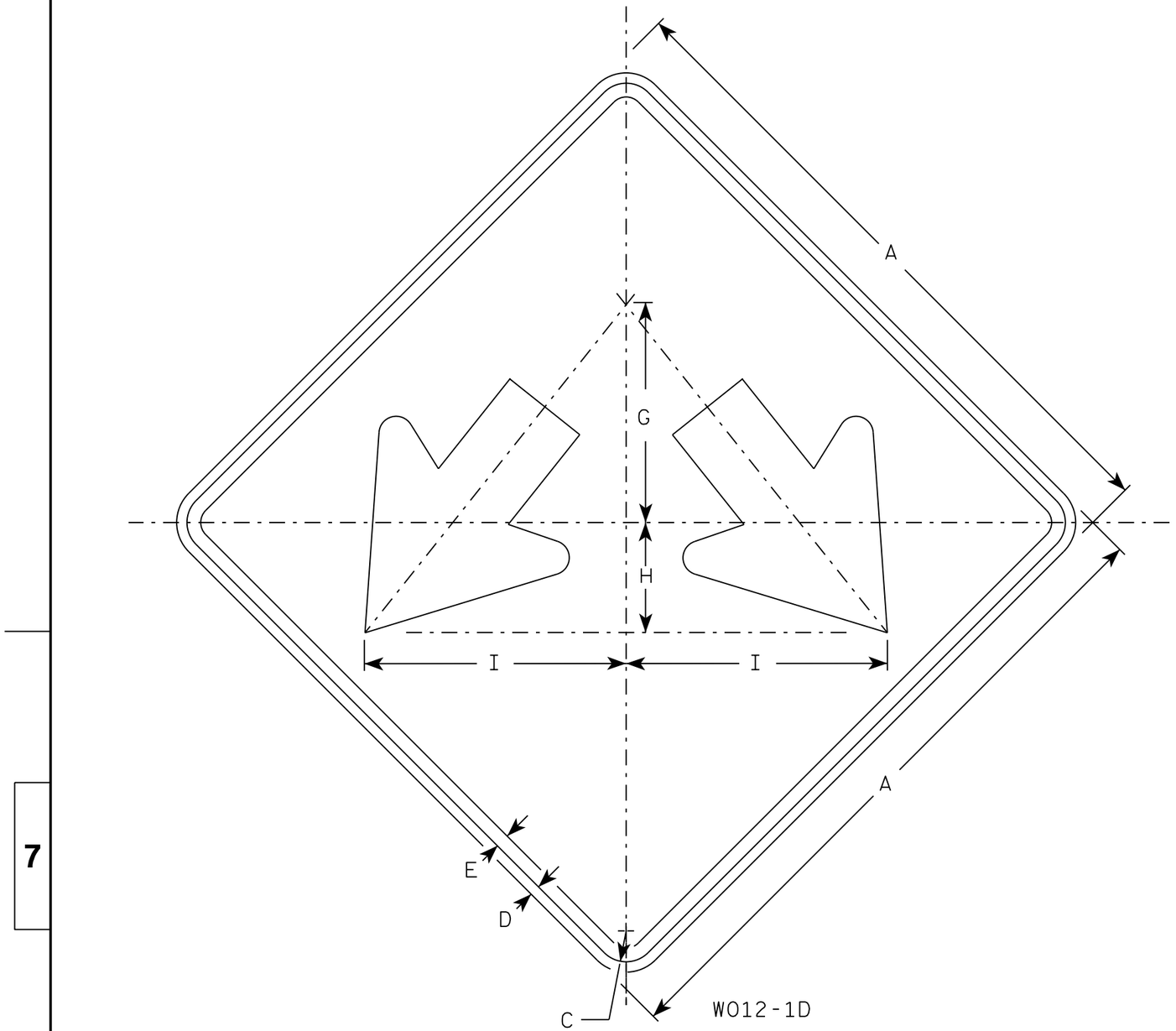
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 4/8/2020 PLATE NO. WO11-2.1

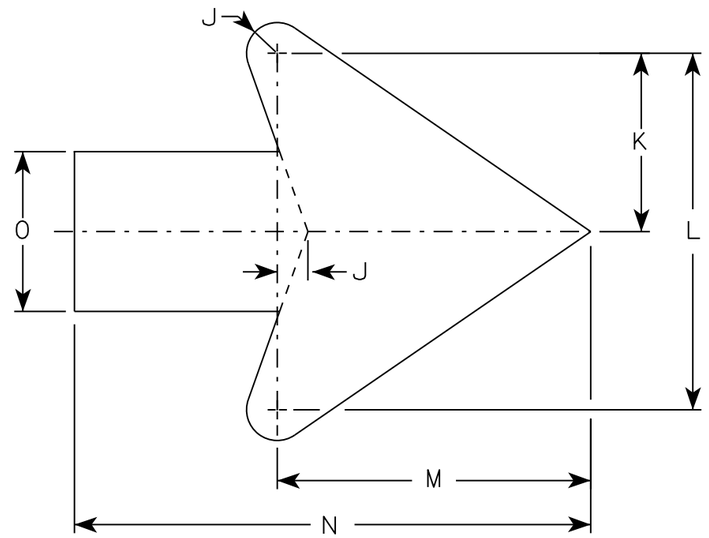
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 659	E



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

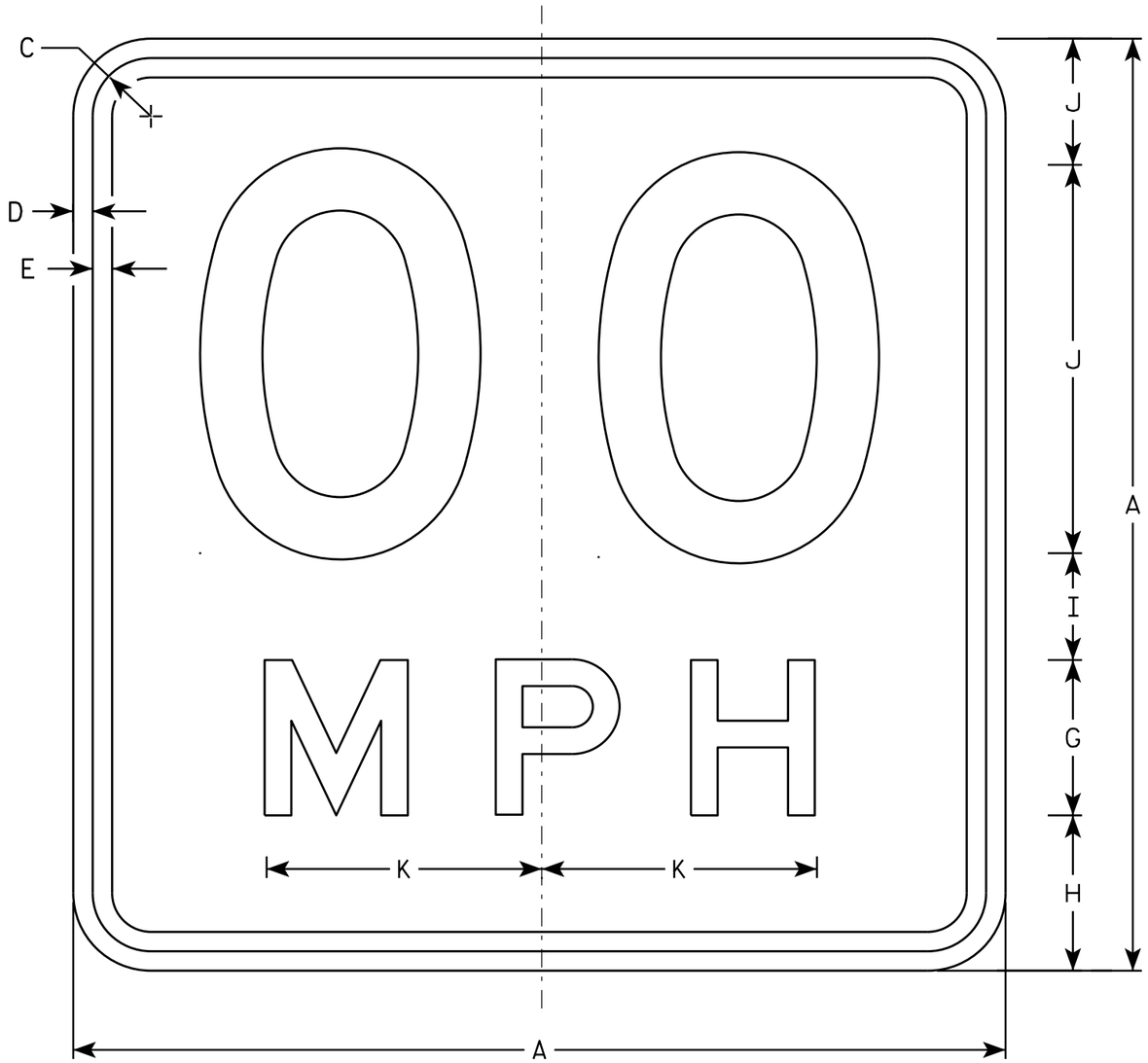
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/28/16 PLATE NO W012-1D.2

660

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W0121D.DGN PLOT DATE : 11-AUG-2016 11:28 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.621375:1.000000



W013-1

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 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
3	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

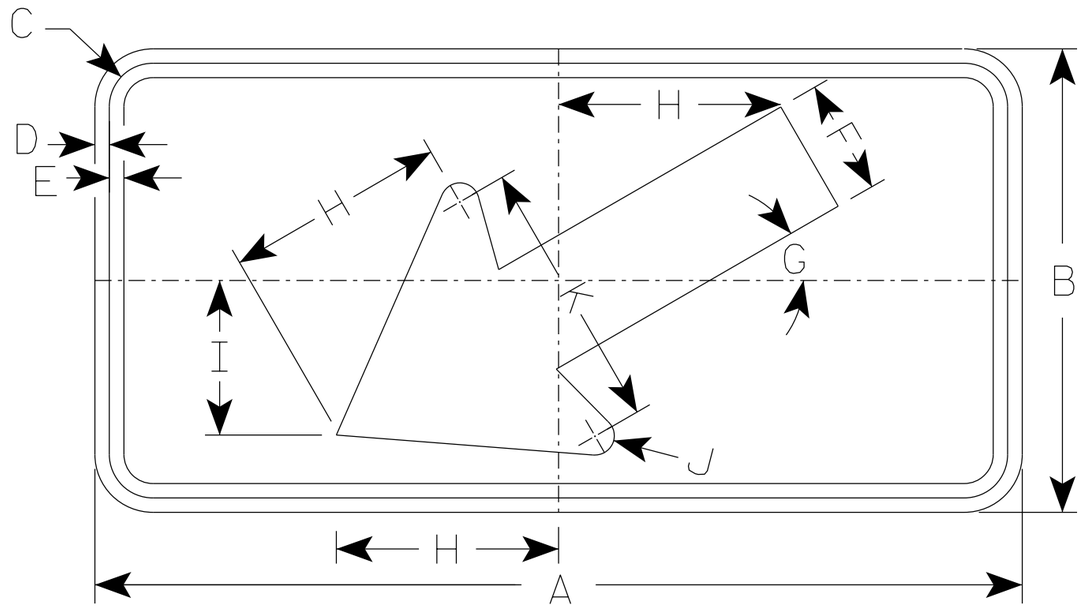
STANDARD SIGN
W013-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/21/13 PLATE 661 W013-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W016-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded but corners shall be rounded when base material is metal.
4. W016-7R is the same as W016-L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2S	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
2M	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
3	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
4	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0

STANDARD SIGN
W016-7

WISCONSIN DEPT OF TRANSPORTATION

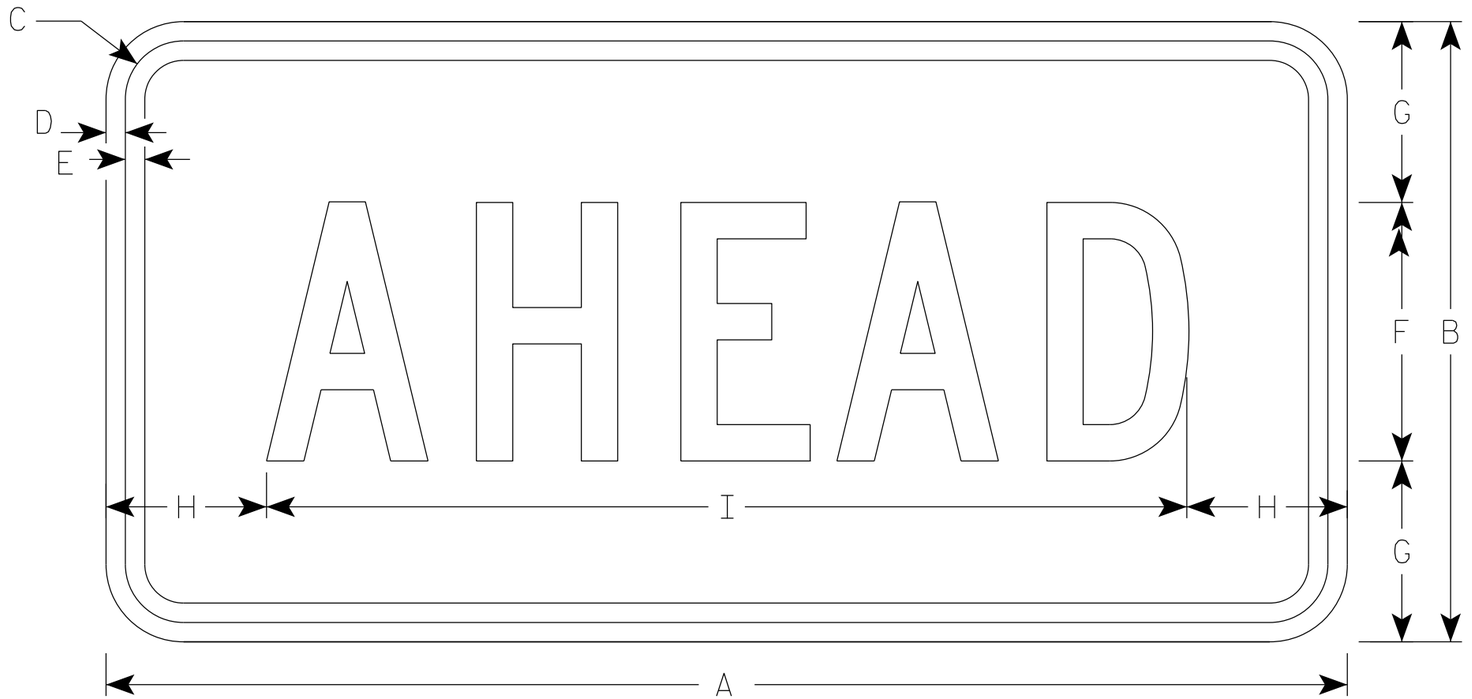
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/2021 PLATE NO. W016-7.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 662 E

7

7



W016-9P

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.

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 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2S	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
2M	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
3	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0

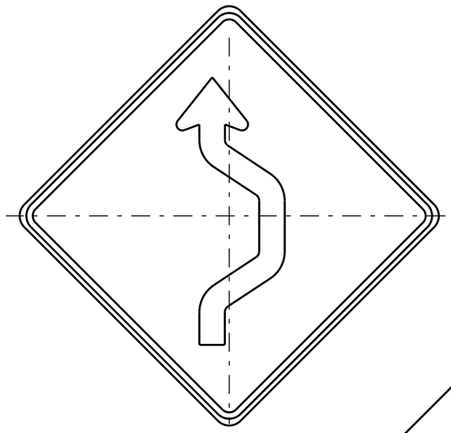
STANDARD SIGN
W016-9P

WISCONSIN DEPT OF TRANSPORTATION

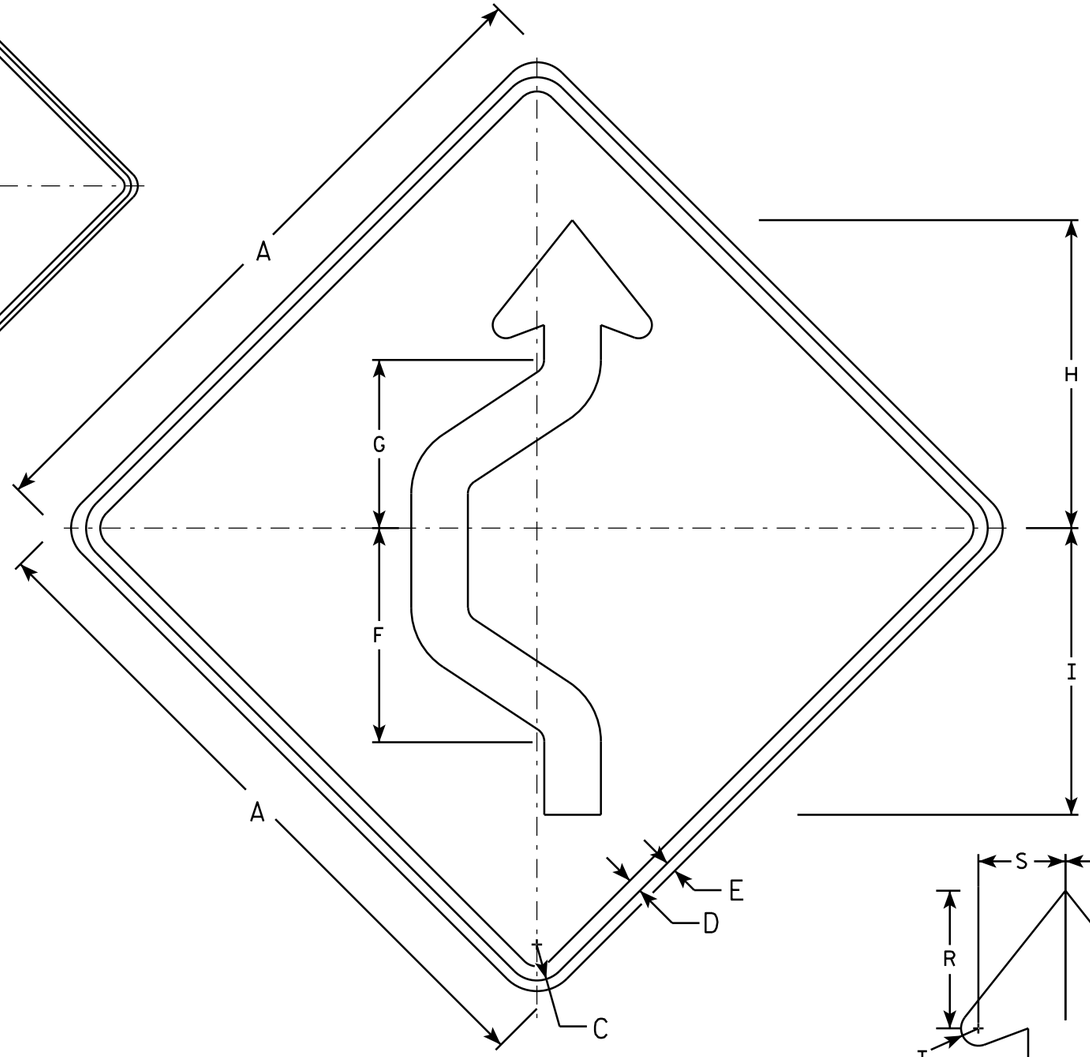
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/1/19 PLATE NO. W016-9P.7

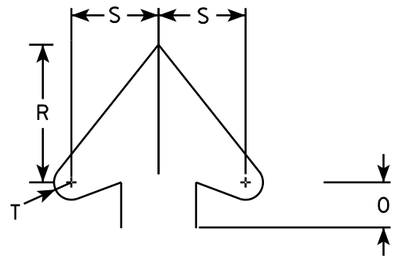
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 663 | E



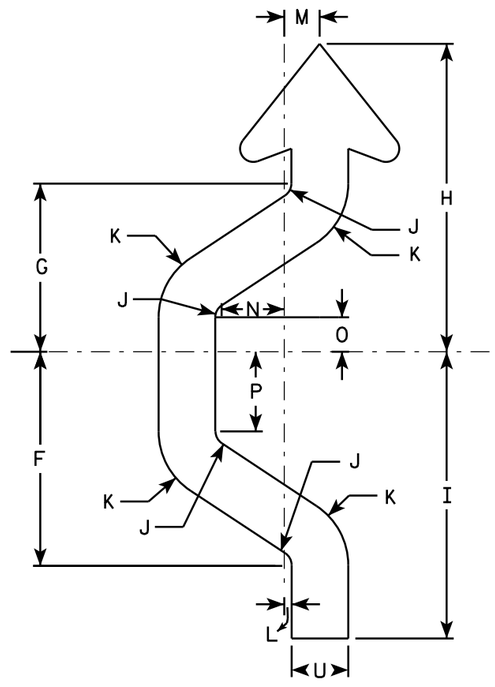
W024-1R



W024-1L



Arrowhead Detail



Arrow Detail

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. W024-1R is the same as W024-1L except 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 3/8	5/8	1/2	11 3/8	8 7/8	16 3/8	15 1/4	3/4	3 3/4	3/8	2	3 3/8	1 7/8	4 1/4		5 1/2	3 1/2	5/8	3						9
2S	48		2 1/4	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16
2M	48		2 1/4	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16
3	48		2 1/4	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16
4	48		2 1/4	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16
5	48		2 1/4	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16

STANDARD SIGN
W024-1 L & R

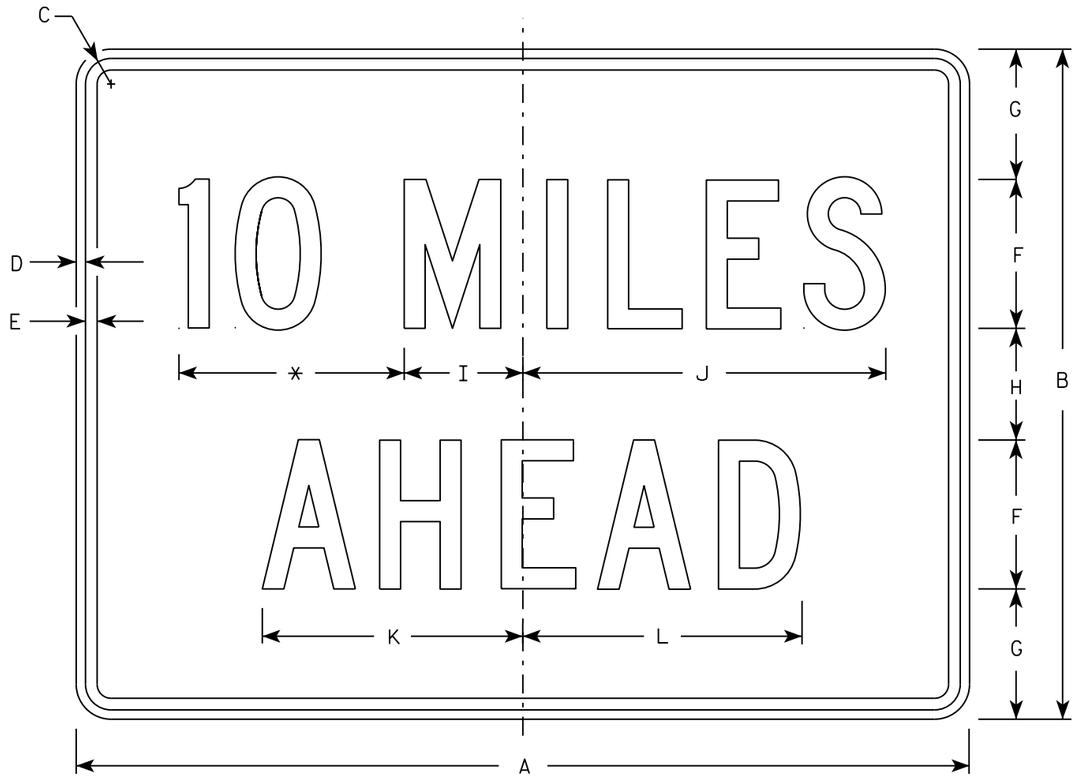
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

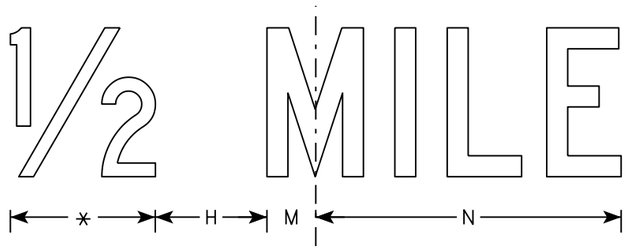
DATE 9/25/2013 PLATE NO. W024-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W0241.DGN PLOT DATE : 25-SEP-2013 13:08 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 10.702132:1.000000 WISDOT/CADDS SHEET 42



W057-52



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

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

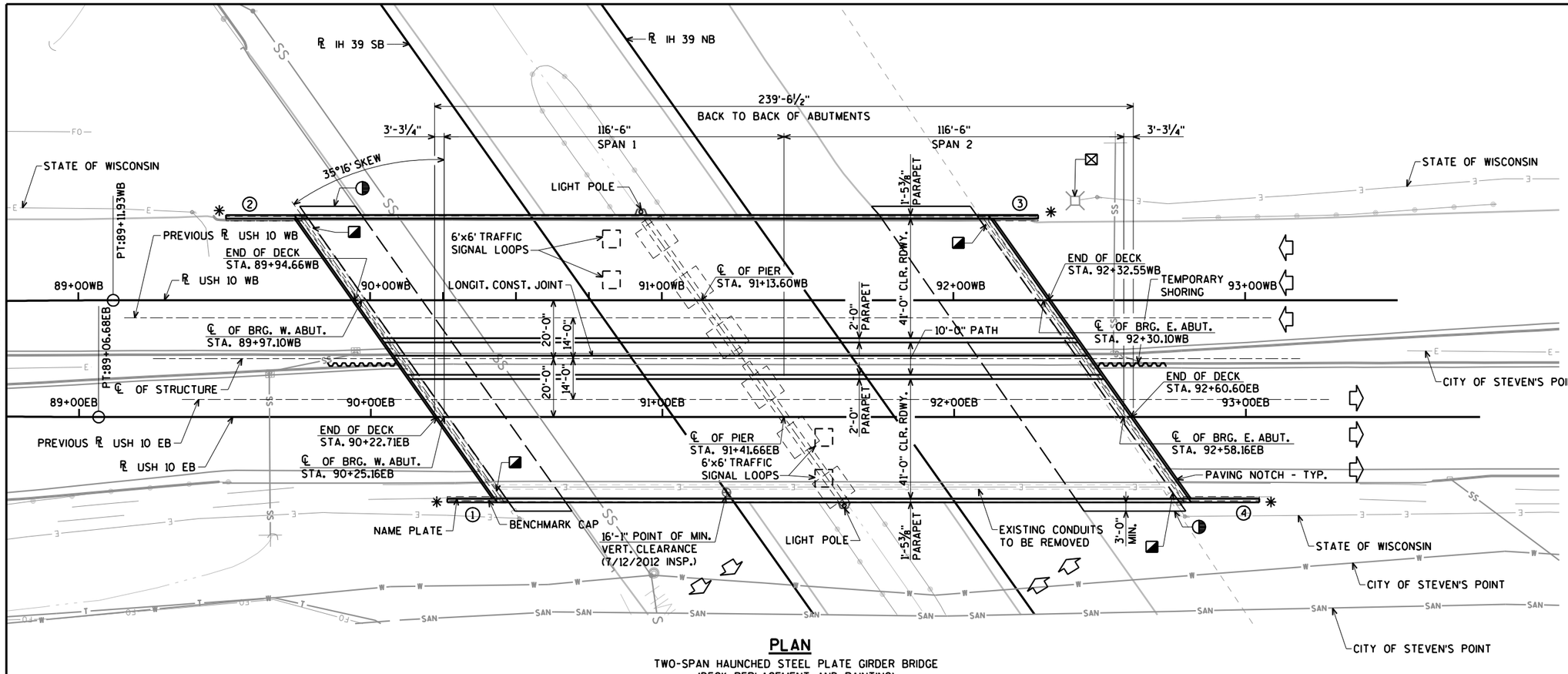
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W057-52.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 665	E

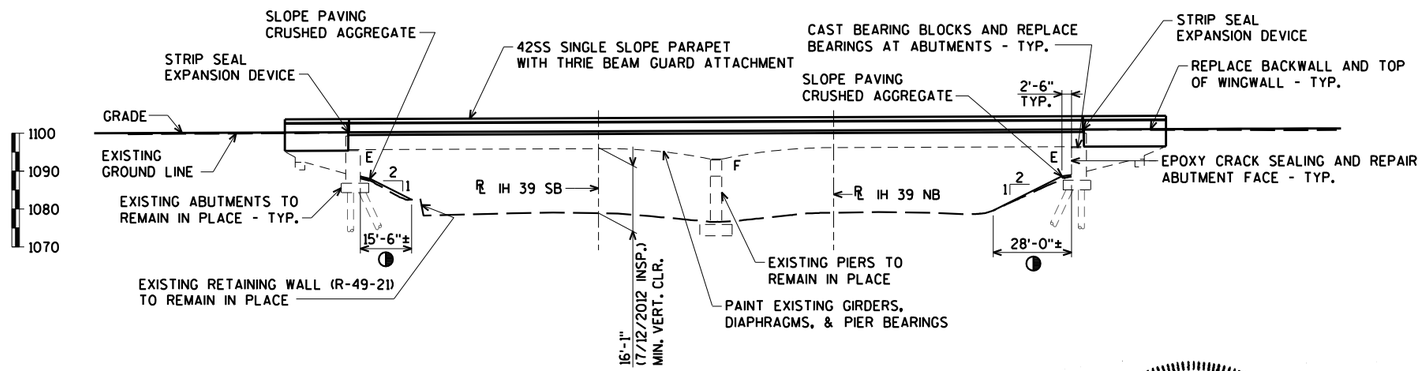
STATE PROJECT NUMBER

1166-06-75



PLAN

TWO-SPAN HAUNCHED STEEL PLATE GIRDER BRIDGE
(DECK REPLACEMENT AND PAINTING)



ELEVATION

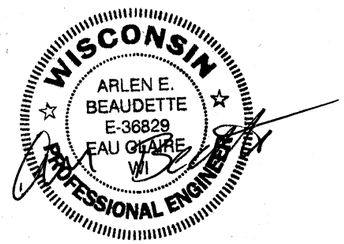
(NORMAL TO ℄ OF IH 39)

- ⊠ EXISTING 50-FOOT CAMERA SYSTEM NOT TO BE DISTURBED.
- ◪ SIDE RETAINERS REO'D. AT GIRDERS 1-4 AT WEST ABUT. AND GIRDERS 9-12 AT EAST ABUT.
- ✳ ANCHOR ASSEMBLIES FOR THRIE BEAM TYPE GUARDRAIL.
- ◯ DENOTES WING NUMBER.
- ◑ RESEAL CRUSHED AGGREGATE SLOPE PAVING.

FOR DESIGN DATA SEE SHEET 2
FOR TYPICAL SECTIONS SEE SHEET 3

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES AND NOTES
3. TYPICAL SECTION AND DETAILS
4. WEST ABUTMENT
5. WEST ABUTMENT WING 1 DETAILS
6. WEST ABUTMENT WING 2 DETAILS
7. WEST ABUTMENT BILL OF BARS AND DETAILS
8. EAST ABUTMENT
9. EAST ABUTMENT WING 3 DETAILS
10. EAST ABUTMENT WING 4 DETAILS
11. EAST ABUTMENT BILL OF BARS AND DETAILS
12. BEARING DETAILS AT ABUTMENTS
13. FRAMING PLAN
14. CROSS FRAME DETAILS
15. DECK ELEVATIONS
16. TABLE OF DEFLECTIONS
17. SUPERSTRUCTURE
18. SUPERSTRUCTURE PLAN
19. TRANSVERSE DECK STEEL LAYOUT
20. CONDUIT DETAILS
21. LIGHT STANDARD DETAILS
22. SUPERSTRUCTURE BILL OF BARS AND DETAILS
23. SUPERSTRUCTURE DETAILS
24. STRIP SEAL EXPANSION DEVICE
25. COVER PLATE DETAILS
26. PATH COVER PLATE DETAILS
27. STRIP SEAL EXPANSION JOINT DETAILS
28. SINGLE SLOPE PARAPET 42SS
29. SLOPE PAVING CRUSHED AGGREGATE



05/12/2021

BRIDGE OFFICE CONTACT:
AARON BONK
(608)-261-0261

CONSULTANT CONTACT:
ARLEN BEAUDETTE
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES 3433 Oakwood Hills Parkway Eau Claire, WI 54701 www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 05/14/21
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-49-24

USH 10 OVER USH 51 - IH 39

COUNTY	TOWN/~~CITY/VILLAGE~~
PORTAGE	HULL

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	CJM	DESIGN CK'D.	AEB	DRAWN BY	CJM	PLANS CK'D.	AEB

GENERAL PLAN

SHEET 1 OF 29
666

I.D. DATE:

DATE: DATE: DATE:
CHECKED BY: BACK CHECKED BY: CORRECTED BY:

5/5/2021
PENTABLE:BReau_shd_util.tbl

8

8

I:±42±42-1178.00 - Portage Co, US 10 over IH 39±Structures±Final±421178 gp.dgn

STATE PROJECT NUMBER

1166-06-75

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	W. ABUT.	PIER	E. ABUT.	SUPER.	TOTAL
▨	203.0200	REMOVING OLD STRUCTURE STATION 91+42.00 'EB'	LS	-----	-----	-----	-----	1
	203.0210.S	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-49-24	LS	-----	-----	-----	-----	1
	206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-49-24	LS	-----	-----	-----	-----	1
	210.1500	BACKFILL STRUCTURE TYPE A	TON	330	-----	330	-----	660
	502.0100	CONCRETE MASONRY BRIDGES	CY	79	-----	79	961	1,119
	502.3101	EXPANSION DEVICE	LF	-----	-----	-----	240	240
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	-----	-----	-----	2,145	2,145
	502.3210	PIGMENTED SURFACE SEALER	SY	-----	-----	-----	700	700
	502.4204	ADHESIVE ANCHORS NO. 4 BARS	EACH	115	-----	115	-----	230
	502.4205	ADHESIVE ANCHORS NO. 5 BARS	EACH	308	-----	308	716	1,332
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	8,090	-----	8,120	188,600	204,810
	506.0605	STRUCTURAL STEEL HS	LB	-----	-----	-----	5,650	5,650
	506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH	12	-----	12	-----	24
	506.7050.S	REMOVING BEARINGS B-49-24	EACH	12	-----	12	-----	24
	509.9020.S	EPOXY CRACK SEALING	LF	100	-----	100	-----	200
**	509.1500	CONCRETE SURFACE REPAIR	SF	50	-----	50	-----	100
	511.1200	TEMPORARY SHORING B-49-24	SF	240	-----	240	-----	480
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	22	-----	22	-----	44
	517.0600	PAINTING EPOXY SYSTEM B-49-24	LS	-----	-----	-----	-----	1
	517.0900.S	PREPARATION AND COATING OF TOP FLANGES B-49-24	LS	-----	-----	-----	-----	1
▲	517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-49-24	LS	-----	-----	-----	-----	1
	517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-49-24	LS	-----	-----	-----	-----	1
	517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	-----	-----	-----	-----	1
	531.8990	ANCHOR ASSEMBLIES POLES ON STRUCTURES	EACH	-----	-----	-----	2	2
●	604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	40	-----	40	-----	80
	604.9015.S	RESEAL CRUSHED AGGREGATE SLOPE PAVING	SY	230	-----	415	-----	645
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	185	-----	185	-----	370
	614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2	-----	2	-----	4
	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	140	-----	140	-----	280
	652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	24	-----	24	-----	48
	652.0210	CONDUIT RIGID NON-METALLIC SCHEDULE 40 1-INCH	LF	-----	-----	-----	134	134
	652.0225	CONDUIT RIGID NON-METALLIC SCHEDULE 40 2-INCH	LF	175	-----	175	960	1,310
	653.0222	JUNCTION BOXES 18x12x6-INCH	EACH	-----	2	-----	-----	2
	SPV.0060.01	PRECAST CONCRETE BEARING BLOCK	EACH	12	-----	12	-----	24
		NON-BID ITEMS						
		BRIDGE SEAT PROTECTION						
		FILLER						

** UNDISTRIBUTED AS DIRECTED BY THE ENGINEER.

▲ EXISTING GIRDERS, DIAPHRAGMS, AND PIER BEARINGS TO BE PAINTED.

▨ SALVAGE EXISTING ALUMINUM RAILING AND NAMEPLATE TO THE DEPARTMENT.

● REQUIRED AT FRONT FACE OF ABUTMENTS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS ARE BASED ON ORIGINAL STRUCTURE PLANS.

BAR STEEL SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT UNLESS SHOWN OR NOTED OTHERWISE.

AT ABUTMENTS ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.

VARIATIONS TO THE NEW GRADE LINE OVER 1/4" MUST BE SUBMITTED BY THE FIELD ENGINEER TO THE STRUCTURES DESIGN SECTION FOR REVIEW.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW THE ORIGINAL CONSTRUCTION YEAR OF 1968.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMIT FOR EXCAVATION FOR STRUCTURES.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

THE MINIMUM CONCRETE HAUNCH SHALL BE 2" FOR DESIGN CALCULATIONS AND THE HAUNCH CONCRETE QUANTITY IS BASED ON AN AVERAGE DEPTH OF 7.5", WHICH IS THE MAXIMUM HAUNCH QUANTITY FOR WHICH THE CONTRACTOR WILL BE PAID.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS NOTED OTHERWISE.

ALL EXISTING STRUCTURAL STEEL SHALL BE PAINTED. THE PAINT COLOR OF THE FINISH TOP COAT SHALL BE LIGHT GRAY (AMS COLOR NO. 26293). ESTIMATED STRUCTURAL STEEL SURFACE AREA = 39,900 SF.

PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SEALER ARE TO BE APPLIED AS SHOWN IN THE DETAILS ON THIS SHEET.

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF THE ABUTMENT BEAM SEATS BELOW EXPANSION DEVICES.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
INVENTORY RATING: HS-18
OPERATING RATING: HS-31
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 190 KIPS

MATERIAL PROPERTIES:

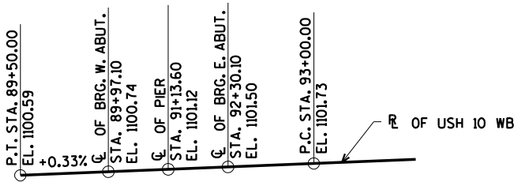
CONCRETE MASONRY { SUPERSTRUCTURE ——— f'c = 4,000 p.s.i.
ALL OTHER ——— f'c = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) ——— fy = 60,000 p.s.i.
HIGH STRENGTH STRUCTURAL STEEL (ASTM A709, GRADE 50) ——— fy = 50,000 p.s.i.

USH 10 TRAFFIC DATA:

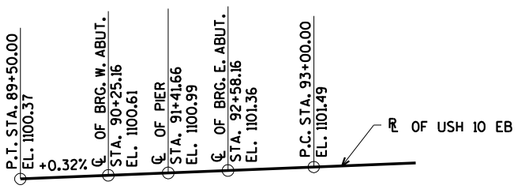
A.A.D.T. = 25,755 (2022)
A.A.D.T. = 27,050 (2042)
R.D.S. = 45 M.P.H.

IH 39 TRAFFIC DATA:

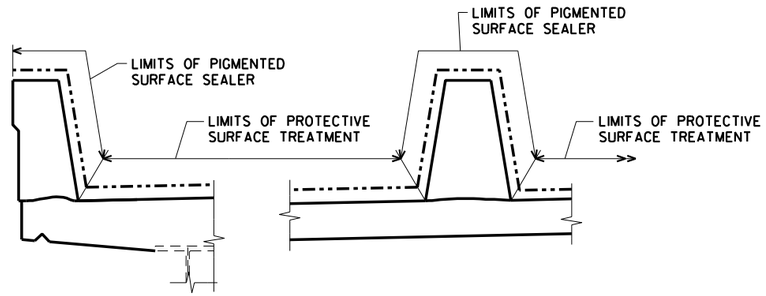
A.A.D.T. = 34,605 (2022)
A.A.D.T. = 42,271 (2042)
R.D.S. = 70 M.P.H.



PROFILE GRADE LINE
(USH 10 WB)



PROFILE GRADE LINE
(USH 10 EB)



PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SEALER DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CJM | PLANS CK'D. AEB

QUANTITIES AND NOTES

SHEET 2 OF 29
667

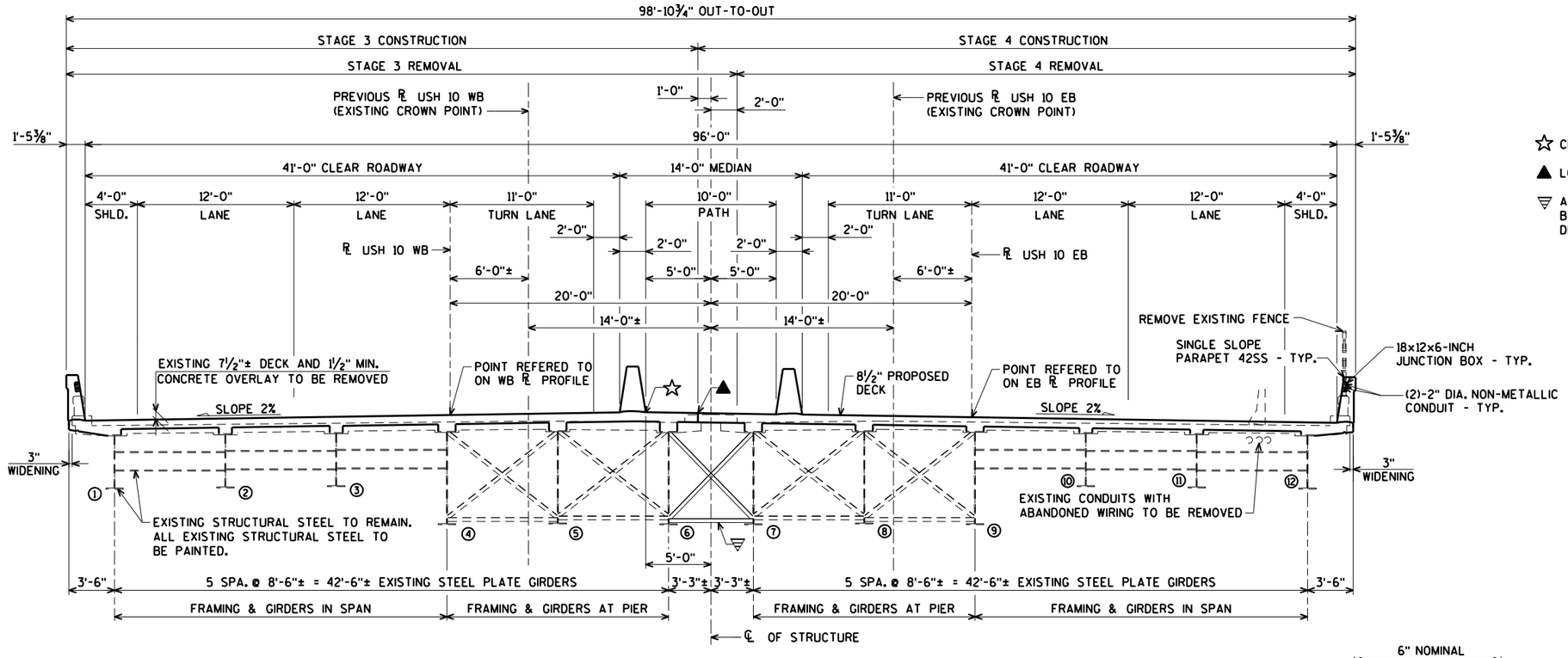
ORIGINAL PLANS PREPARED BY
AYRES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

5/12/2021
PENTABLE:BReau_shd_util.tbl

I:±42±42-1178.00 - Portage Co, US 10 over IH 39±Structures±Final±421178 ty qn.dgn

STATE PROJECT NUMBER

1166-06-75



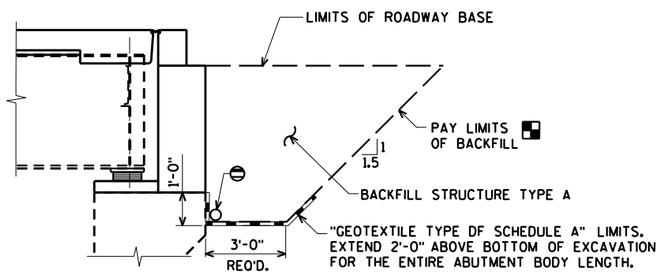
☆ CROWN POINT OF NEW CROSS SECTION.

▲ LONGIT. CONST. JOINT

▽ ADD CROSS-FRAMING AND DIAPHRAGMS AT MIDDLE BAY TO MATCH EXISTING CROSS-FRAMING AND DIAPHRAGMS.

TYPICAL SECTION THRU BRIDGE

(LOOKING EAST)

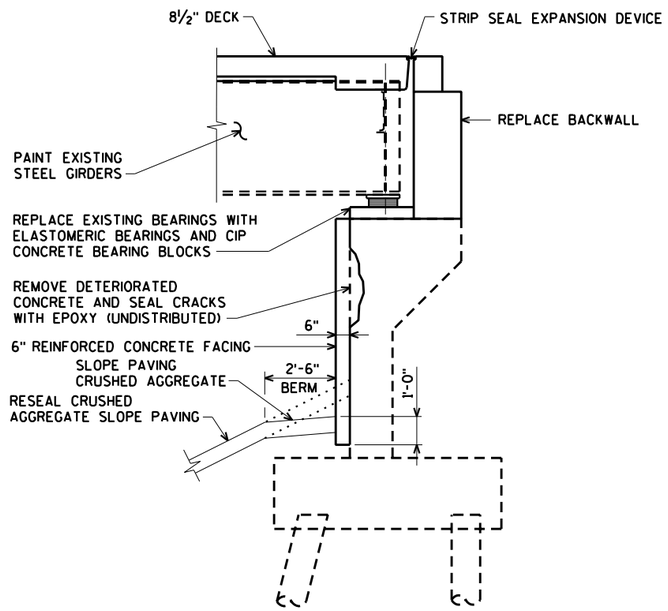


BACKFILL STRUCTURE LIMITS

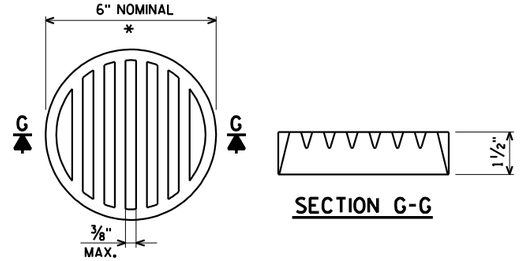
AT ABUTMENT BACKWALLS

▪ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET.



TYPICAL SECTION THRU ABUTMENT



SECTION G-G

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH SHEET METAL SCREWS.

RODENT SHIELD DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CJM | PLANS CK'D. AEB

TYPICAL SECTION AND DETAILS

SHEET 3 OF 29
668

ORIGINAL PLANS PREPARED BY
AYRES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

4/21/2021
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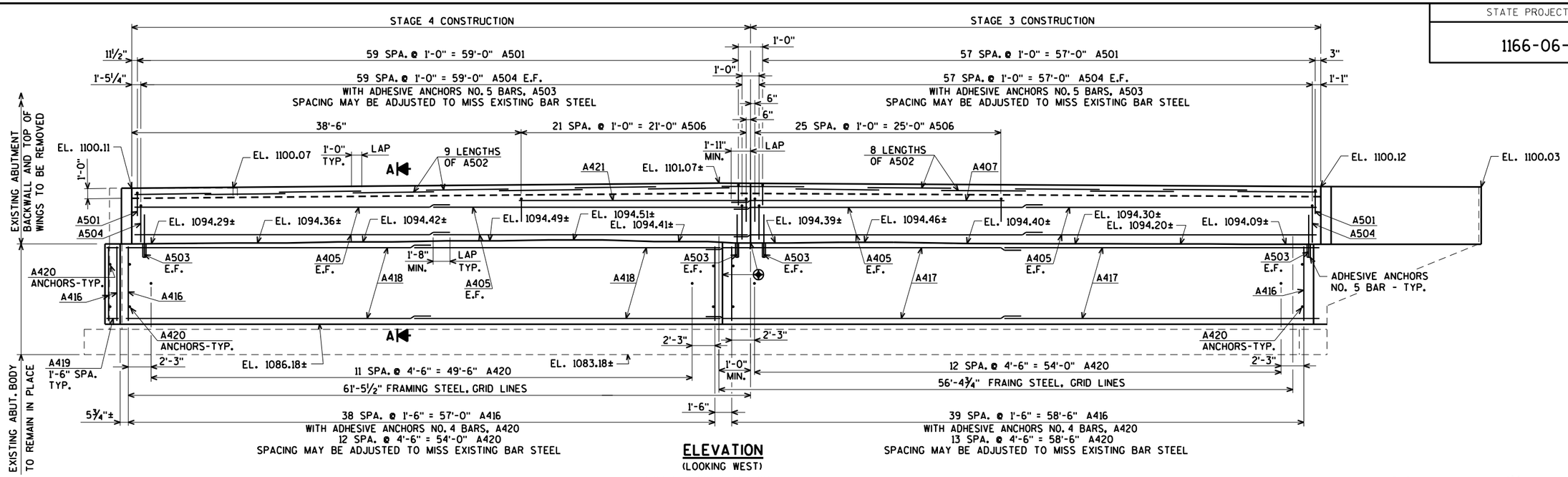
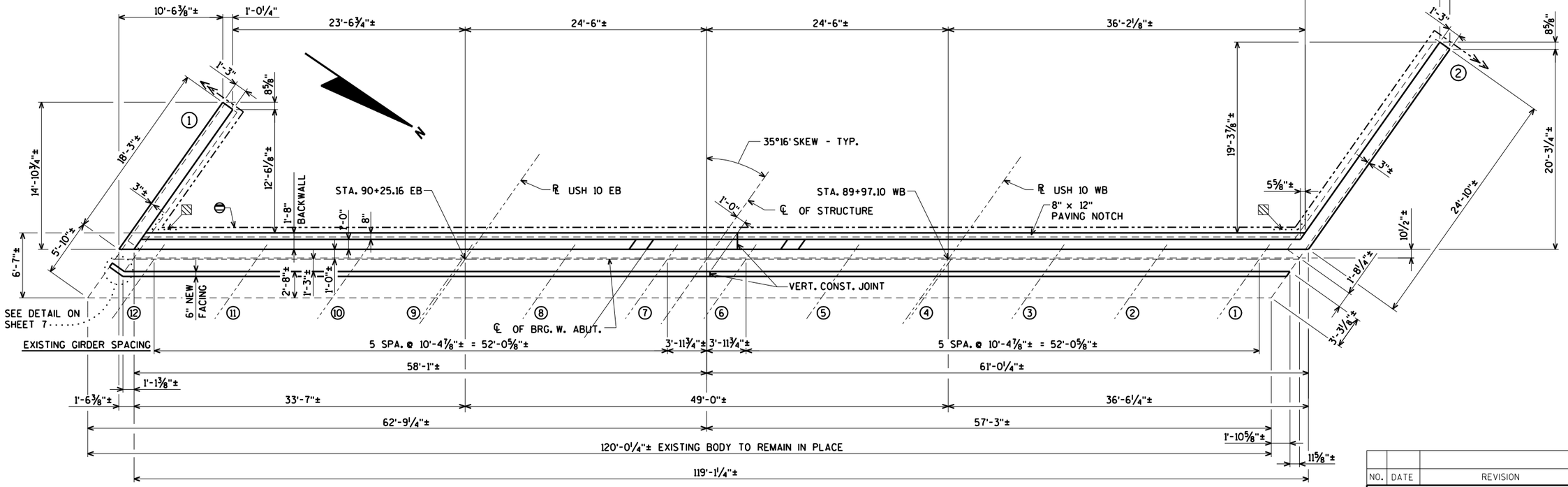


ELEVATION

(LOOKING WEST)

FOR SECTION A SEE SHEET 7



PLAN

⊕ VERT. CONST. JOINT
KEYED CONST. JOINT FORMED BY BEVELED 2" x 8" IN BACKWALL.

▨ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE OF ABUTMENT.

E.F. DENOTES EACH FACE

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. FOR RODENT SHIELD DETAIL SEE SHEET 3.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CLP | PLANS CK'D. AEB

WEST ABUTMENT

SHEET 4 OF 29
669

ORIGINAL PLANS PREPARED BY
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3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

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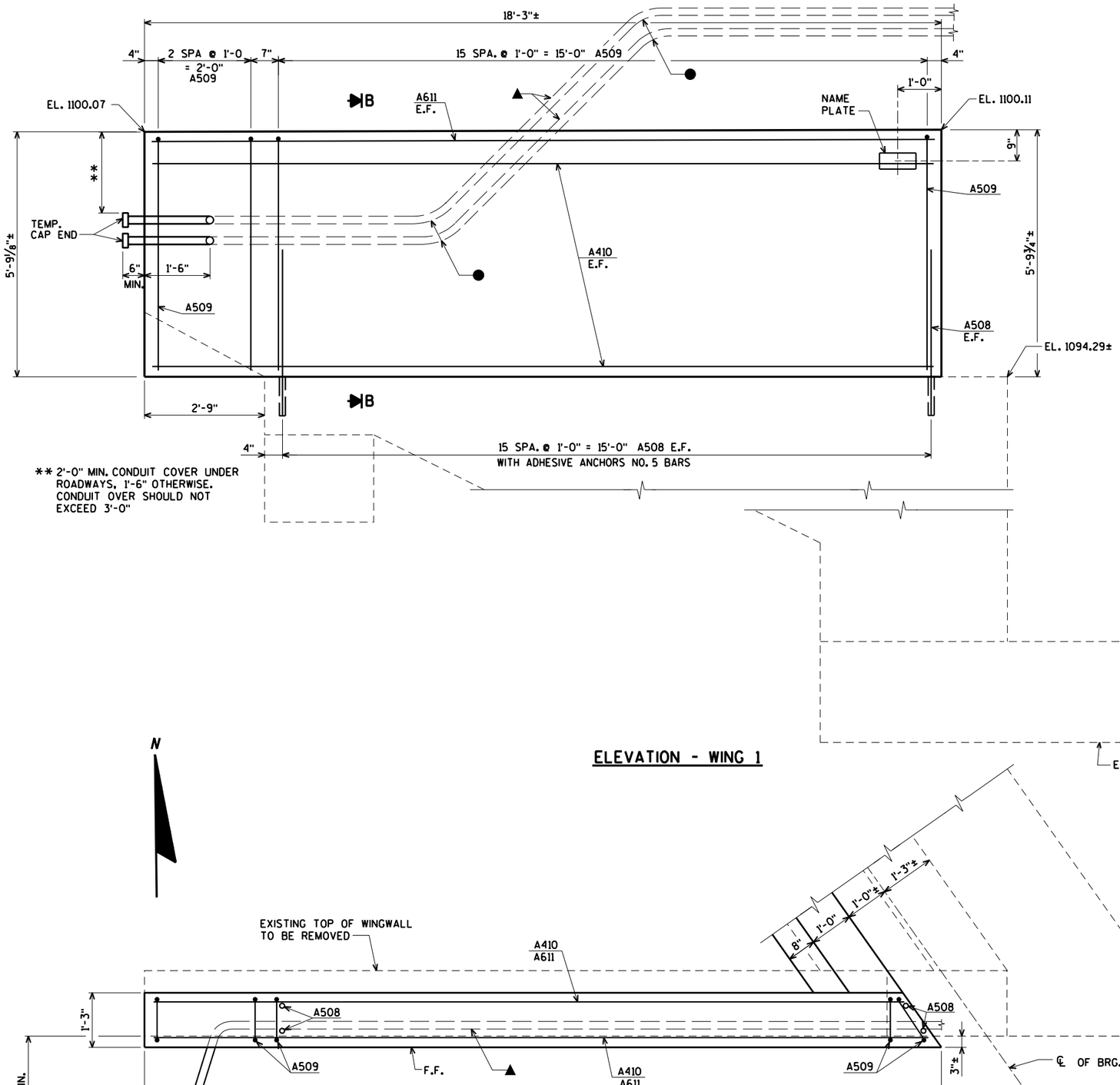
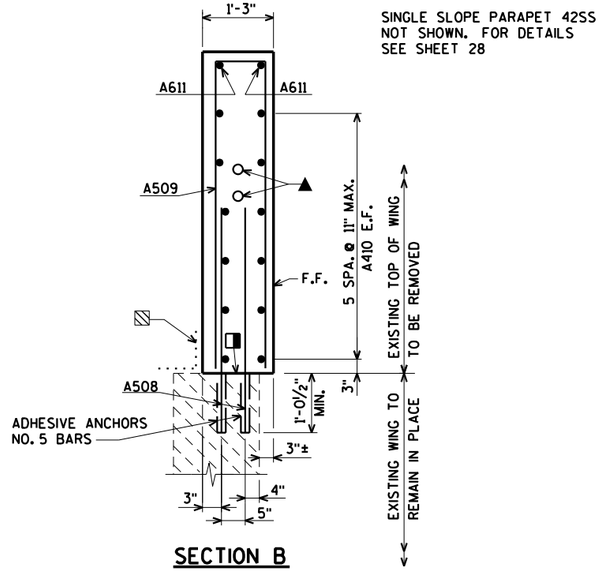
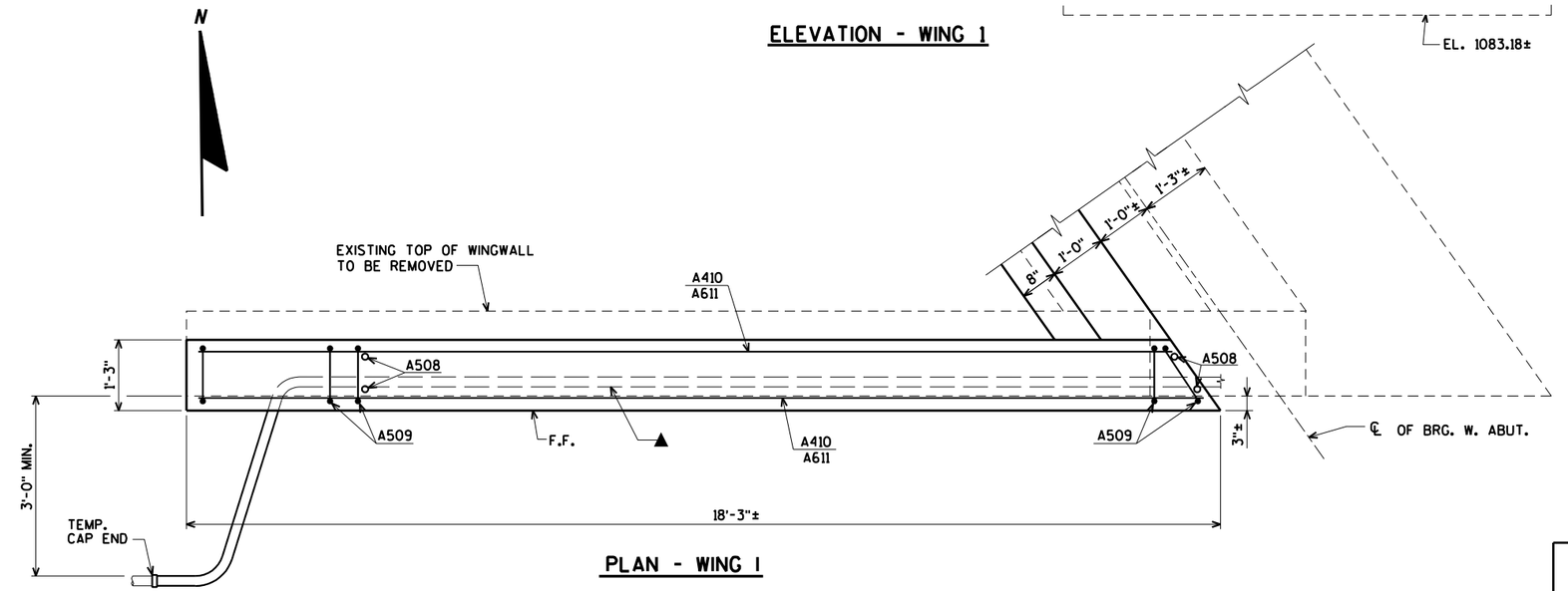




SECTION B

SINGLE SLOPE PARAPET 42SS NOT SHOWN. FOR DETAILS SEE SHEET 28



ELEVATION - WING 1

PLAN - WING 1

● 45° BEND IN CONDUIT. (USE MINIMUM BENDING RADIUS PER WISCONSIN ELECTRIC CODE.)

▲ USE 2" DIA. RIGID NONMETALLIC CONDUIT EXCEPT AT EXPANSION FITTING. AT EXPANSION FITTING USE RIGID METALLIC CONDUIT 3'-0" INTO PARAPET ON DECK AND WING SIDES OF THE JOINT OPENING.

◨ EXISTING CONST. JOINT

▨ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE OF ABUTMENT.

F.F. DENOTES FRONT FACE

E.F. DENOTES EACH FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY	CLP	PLANS CK'D.	AEB

WEST ABUTMENT WING 1 DETAILS

SHEET 5 OF 29
670

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STATE PROJECT NUMBER
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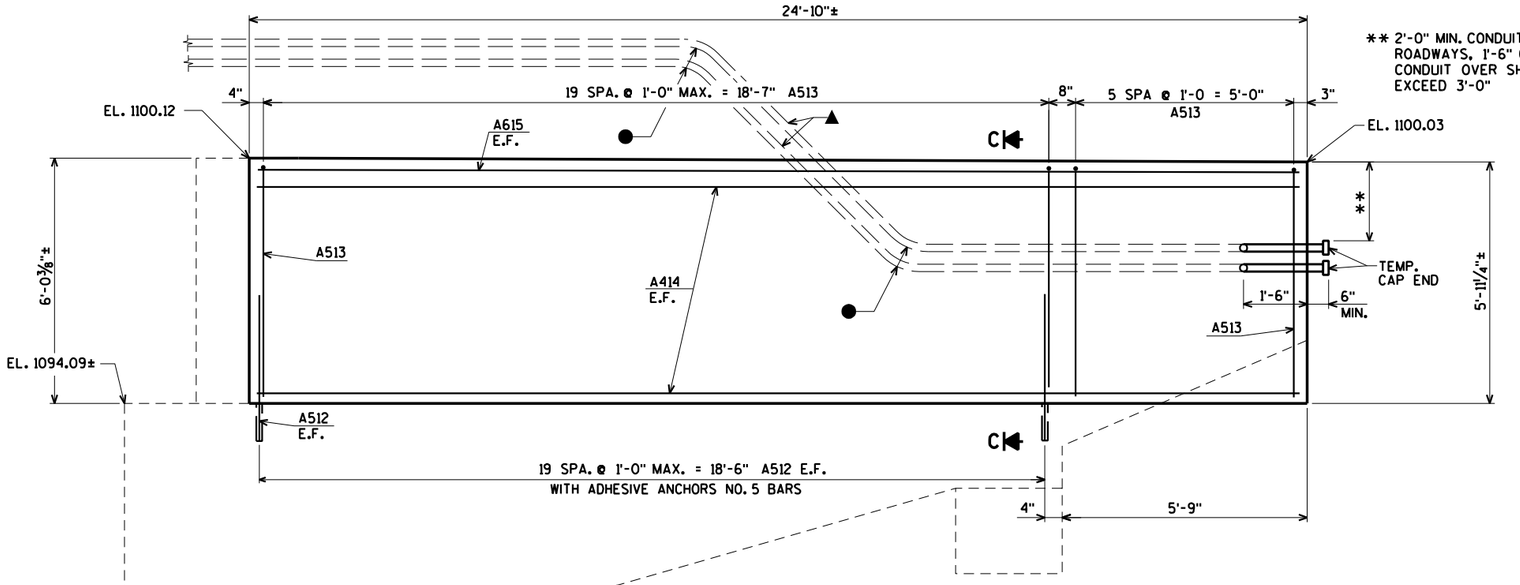
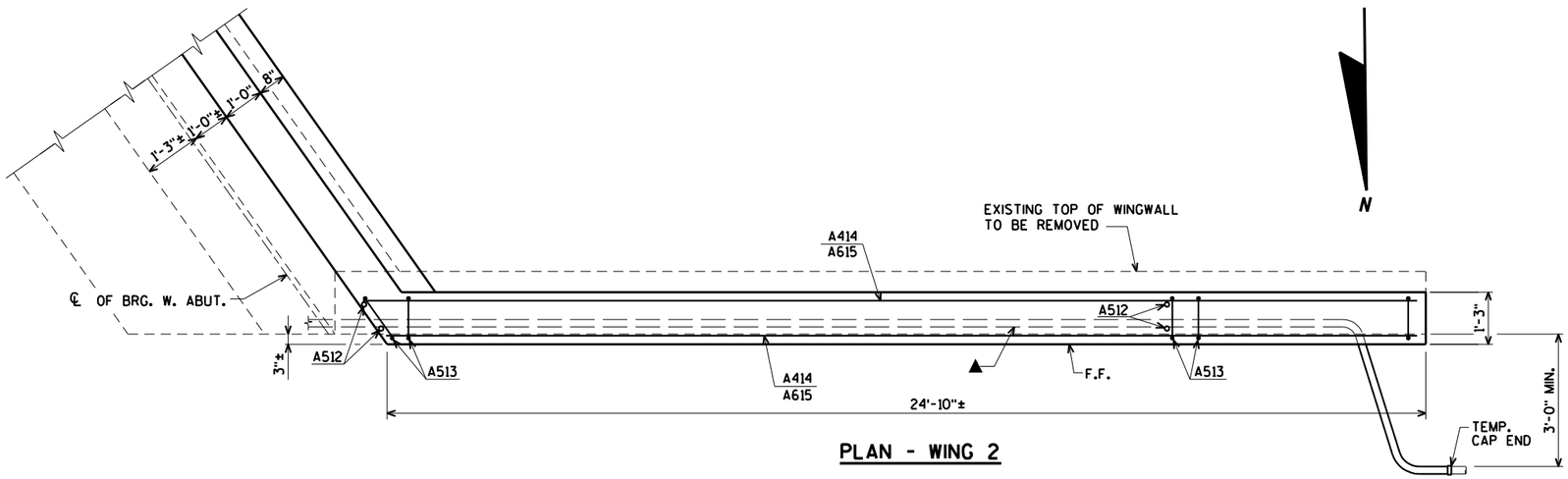
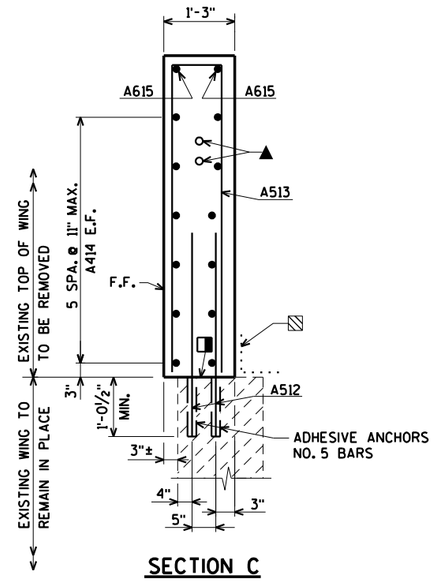


ELEVATION - WING 2



PLAN - WING 2

SINGLE SLOPE PARAPET 42SS NOT SHOWN. FOR DETAILS SEE SHEET 28



SECTION C

● 45° BEND IN CONDUIT. (USE MINIMUM BENDING RADIUS PER WISCONSIN ELECTRIC CODE.)

▲ USE 2" DIA. RIGID NONMETALLIC CONDUIT EXCEPT AT EXPANSION FITTING. AT EXPANSION FITTING USE RIGID METALLIC CONDUIT 3'-0" INTO PARAPET ON DECK AND WING SIDES OF THE JOINT OPENING.

◨ EXISTING CONST. JOINT

▨ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE OF ABUTMENT.

F.F. DENOTES FRONT FACE

E.F. DENOTES EACH FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CLP | PLANS CK'D. AEB

WEST ABUTMENT WING 2 DETAILS

SHEET 6 OF 29
671

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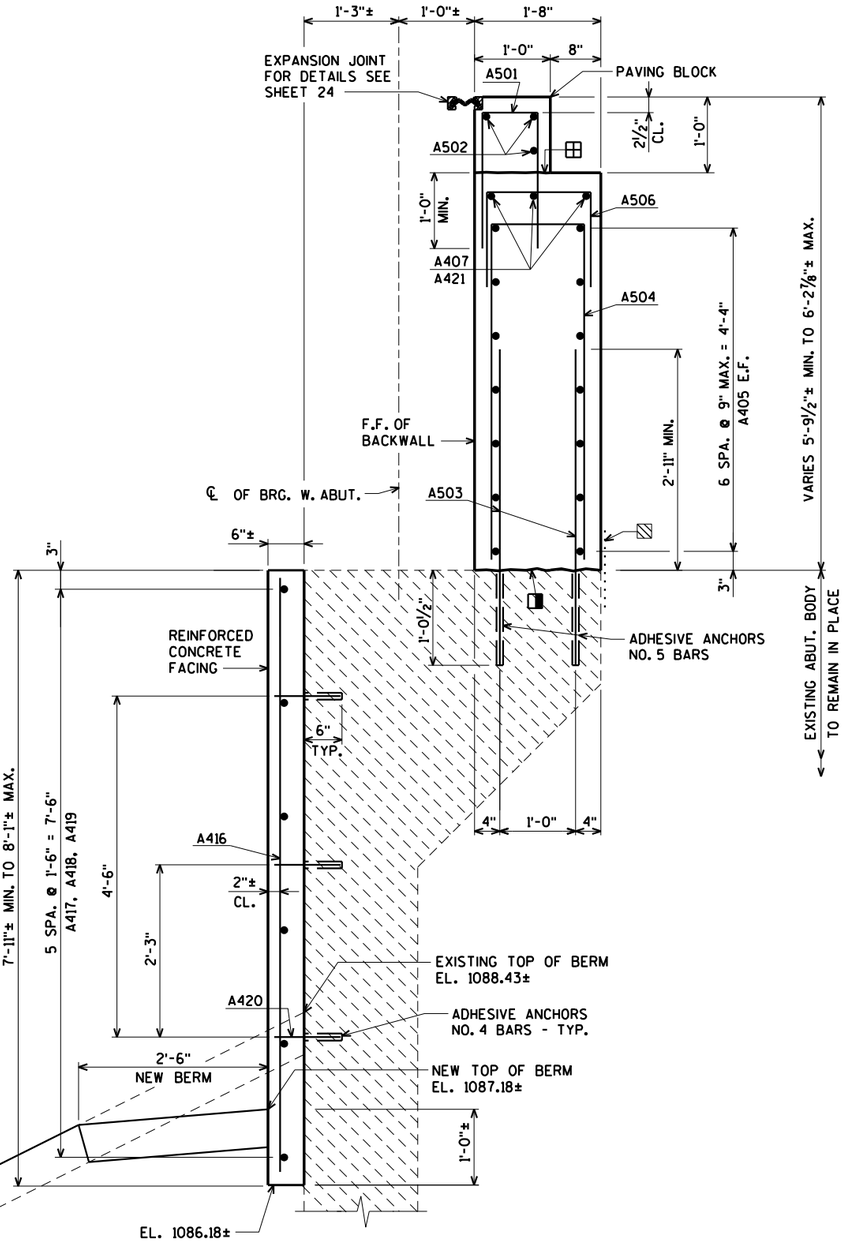
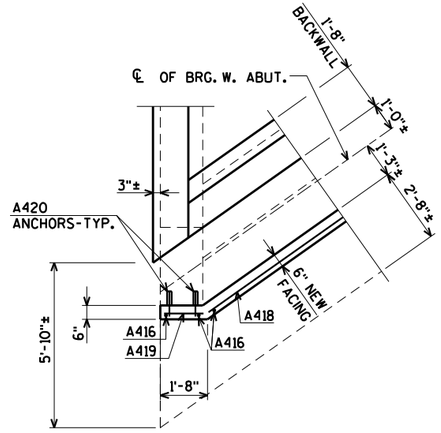
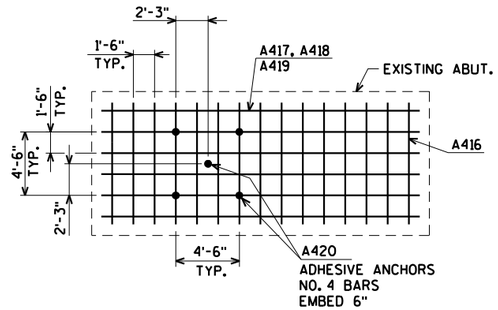


SECTION A



FACING DETAIL AT WING 1



ABUTMENT FACING GRID DETAIL

NOTE: COST FOR REMOVAL OF CONCRETE ON ABUTMENT FACE IS INCIDENTAL TO THE BID ITEM "REMOVING OLD STRUCTURE STATION 91+42.00 'EB'"

FOR LOCATION OF SECTION A SEE SHEET 4.

◨ EXISTING CONST. JOINT

▨ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE OF ABUTMENT AND WINGS.

⊞ CONST. JOINT - POUR CONCRETE ABOVE THIS JOINT AFTER SUBSTRUCTURE IS IN PLACE. STRIKE OFF AS SHOWN AND LEAVE ROUGH.

B.F. DENOTES BACK FACE

F.F. DENOTES FRONT FACE

E.F. DENOTES EACH FACE

BILL OF BARS

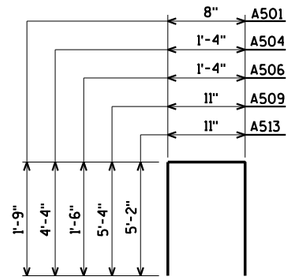
WEIGHT INCLUDES PARAPET STEEL SHOWN ON SHEET 28

	BAR NO.	COATED BAR	NO. REQ'D. STAGE 3	NO. REQ'D. STAGE 4	LENGTH	BENT BAR	BUNDLED BAR	SERIES	8.090" COATED LOCATION
	A501	X	58	60	3-11	X			PAVING BLOCK VERT.
	A502	X	24	27	8-1				PAVING BLOCK HORIZ.
▲	A503	X	116	120	4-0				BACKWALL VERT. DOWELS E.F.
	A504	X	58	60	9-9	X			BACKWALL VERT.
	A405	X	28	28	31-6				BACKWALL HORIZ. E.F.
	A506	X	26	22	4-2	X			BACKWALL VERT.
	A407	X	3	---	26-11				BACKWALL HORIZ. STAGE 3
▲	A508	X	---	32	4-0				WING 1 VERT. DOWELS E.F.
	A509	X	---	19	11-4	X			WING 1 VERT.
	A410	X	---	12	17-0				WING 1 HORIZ. E.F.
	A611	X	---	2	17-0				WING 1 HORIZ. E.F. TOP
▲	A512	X	40	---	4-0				WING 2 VERT. DOWELS E.F.
	A513	X	26	---	11-0	X			WING 2 VERT.
	A414	X	12	---	23-4				WING 2 HORIZ. E.F.
	A615	X	2	---	23-4				WING 2 HORIZ. E.F. TOP
	A416	X	40	41	7-7				CONCRETE FACING VERT.
	A417	X	12	---	31-2				CONCRETE FACING HORIZ. STAGE 3
	A418	X	---	12	30-7				CONCRETE FACING HORIZ. STAGE 4
	A419	X	---	6	1-4				CONCRETE FACING HORIZ. @ WING 1
••	A420	X	39	40	0-10				CONCRETE FACING HORIZ. DOWELS
	A421	X	---	3	21-0				BACKWALL HORIZ. STAGE 4

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

▲ ADHESIVE ANCHORS NO. 5 BAR

•• ADHESIVE ANCHORS NO. 4 BAR



NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CLP | PLANS CK'D. AEB

WEST ABUTMENT
BILL OF BARS
AND DETAILS

SHEET 7 OF 29
672

ORIGINAL PLANS PREPARED BY
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STATE PROJECT NUMBER

1166-06-75

STAGE 3 CONSTRUCTION

STAGE 4 CONSTRUCTION

EXISTING ABUTMENT BACKWALL AND TOP OF WINGS TO BE REMOVED

EXISTING ABUT. BODY TO REMAIN IN PLACE

11½" 59 SPA. @ 1'-0" = 59'-0" B501

1'-5¼" 59 SPA. @ 1'-0" = 59'-0" B504 E.F.
WITH ADHESIVE ANCHORS NO. 5 BARS, B503
SPACING MAY BE ADJUSTED TO MISS EXISTING BAR STEEL

38'-6"

21 SPA. @ 1'-0" = 21'-0" B506

25 SPA. @ 1'-0" = 25'-0" B506

1'-0" 57 SPA. @ 1'-0" = 57'-0" B501

3"

1'-0" 57 SPA. @ 1'-0" = 57'-0" B504 E.F.
WITH ADHESIVE ANCHORS NO. 5 BARS, B503
SPACING MAY BE ADJUSTED TO MISS EXISTING BAR STEEL

1'-1"

6"

6"

1'-11" MIN.

LAP

EL. 1100.88

EL. 1100.95

1'-0" TYP. LAP

9 LENGTHS OF B502

B407

EL. 1101.80±

B421

8 LENGTHS OF B502

EL. 1100.86

EL. 1100.95

1'-0"

B501
B504

EL. 1094.79± EL. 1094.90± EL. 1095.00± EL. 1095.10± EL. 1095.16± EL. 1095.09± EL. 1095.11± EL. 1095.21± EL. 1095.19± EL. 1095.12± EL. 1095.05± EL. 1094.99±

B501
B504

B503 E.F.

B405 E.F.

1'-8" MIN. LAP TYP.

B417

B405 E.F.

B417

B503 E.F.

B503 E.F.

B405 E.F.

B418

B405 E.F.

B418

B503 E.F.

B420 ANCHORS-TYP.

B416

B416

B416

ADHESIVE ANCHORS NO. 5 BAR - TYP.

B420 ANCHORS-TYP.

B420 ANCHORS-TYP.

2'-3"

2'-3"

2'-3"

2'-3"

B418 1'-6" SPA. TYP.

EL. 1086.88±

11 SPA. @ 4'-6" = 49'-6" A420

EL. 1083.88±

1'-0" MIN.

12 SPA. @ 4'-6" = 54'-0" A420

61'-5½" FRAMING STEEL, GRID LINES

56'-4¾" FRAING STEEL, GRID LINES

5¾"±

1'-6"

38 SPA. @ 1'-6" = 57'-0" B416
WITH ADHESIVE ANCHORS NO. 4 BARS, B420
12 SPA. @ 4'-6" = 54'-0" B420
SPACING MAY BE ADJUSTED TO MISS EXISTING BAR STEEL

39 SPA. @ 1'-6" = 58'-6" B416
WITH ADHESIVE ANCHORS NO. 4 BARS, B420
13 SPA. @ 4'-6" = 58'-6" B420
SPACING MAY BE ADJUSTED TO MISS EXISTING BAR STEEL

ELEVATION

(LOOKING EAST)

FOR SECTION A SEE SHEET 11

10'-6⅜"± 1'-0¼" 23'-6¾"± 24'-6"± 24'-6"± 36'-2⅛"± 13'-8"± 1'-0¼"

1'-3" 8⅝"

N

35°16' SKEW - TYP.

STA. 92+30.10 WB

℄ USH 10 WB

STA. 92+58.16 EB

℄ USH 10 EB

8" x 12" PAVING NOTCH

1'-0"

℄ OF STRUCTURE
VERT. CONST. JOINT

1'-8" BACKWALL

1'-0" 8"

2'-8"± 1'-3"± 1'-0"±

6" NEW FACING

SEE DETAIL ON SHEET 11

℄ OF BRG. E. ABUT.

VERT. CONST. JOINT

EXISTING GIRDER SPACING

5 SPA. @ 10'-4⅞"± = 52'-0⅝"±

3'-11¾"± 3'-11¾"±

5 SPA. @ 10'-4⅞"± = 52'-0⅝"±

58'-1"±

61'-0¼"±

1'-1⅜"±

1'-6⅜"± 33'-7"± 49'-0"± 36'-6¼"±

62'-9¼"± 57'-3"±

1'-10⅝"±

120'-0¼"± EXISTING BODY TO REMAIN IN PLACE

11⅝"±

119'-1¼"±

14'-10¾"± 18'-3"± 3"± 12'-6⅛"± 6'-7"± 5'-10"± 19'-3⅞"± 5⅝"± 3"± 20'-3¼"± 24'-10"± 10½"± 1'-8¼"± 3'-3⅛"±

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

PLAN

⊕ VERT. CONST. JOINT
KEYED CONST. JOINT FORMED BY BEVELED 2" x 8" IN BACKWALL.

▨ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE OF ABUTMENT.

E.F. DENOTES EACH FACE

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. FOR RODENT SHIELD DETAIL SEE SHEET 3.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CLP | PLANS CK'D. AEB

EAST ABUTMENT

SHEET 8 OF 29
673

ORIGINAL PLANS PREPARED BY
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Eau Claire, WI 54701
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4/21/2021
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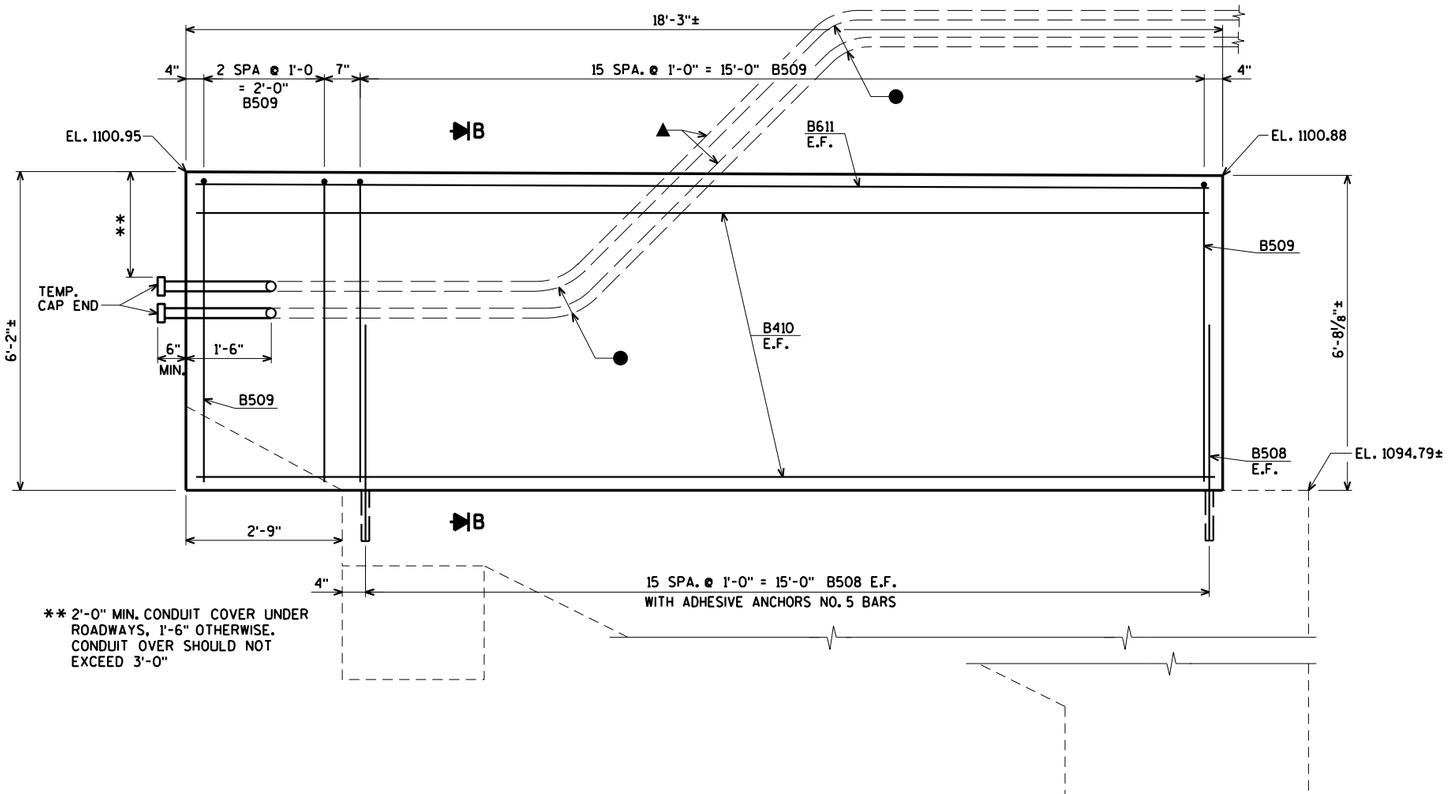
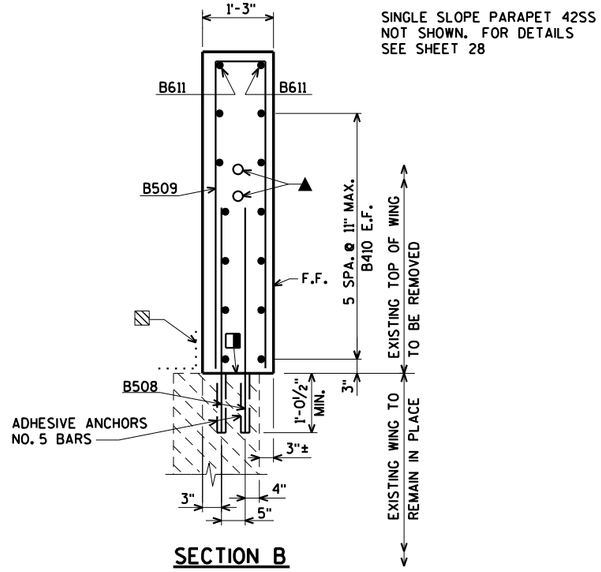
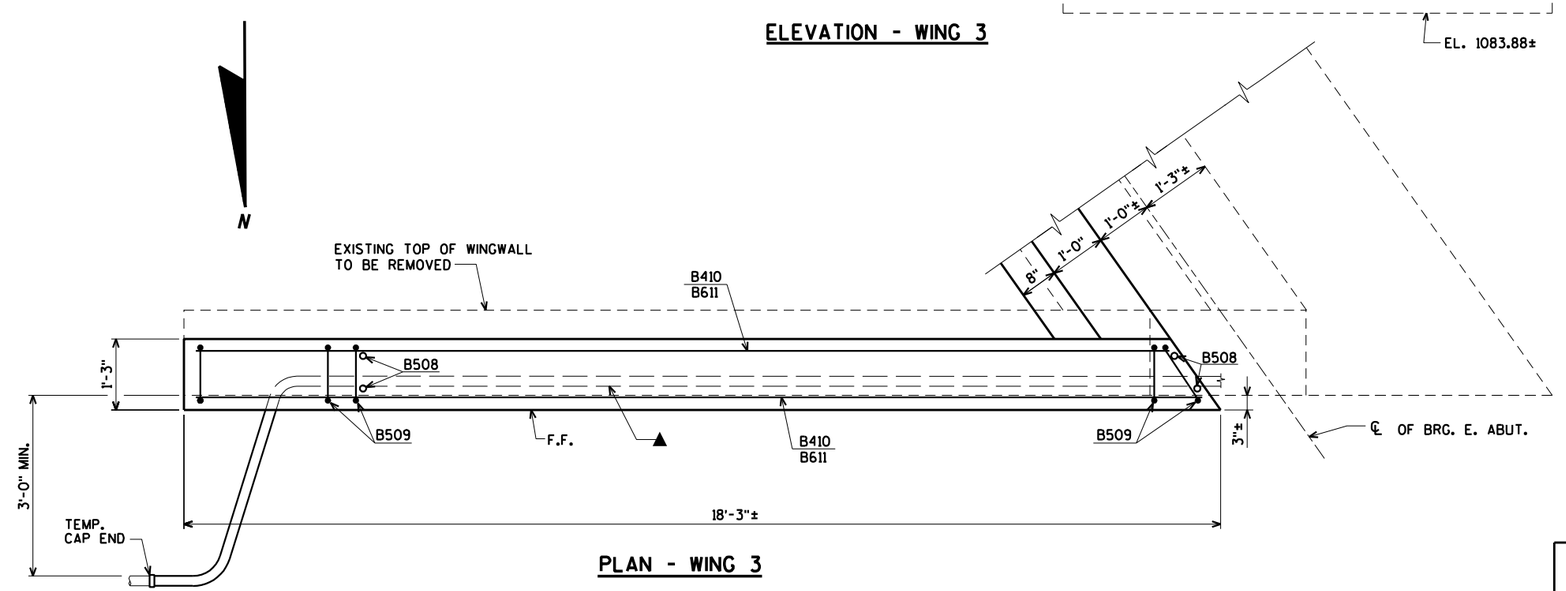


** 2'-0" MIN. CONDUIT COVER UNDER ROADWAYS, 1'-6" OTHERWISE. CONDUIT OVER SHOULD NOT EXCEED 3'-0"



SECTION B

SINGLE SLOPE PARAPET 42SS NOT SHOWN. FOR DETAILS SEE SHEET 28



● 45° BEND IN CONDUIT. (USE MINIMUM BENDING RADIUS PER WISCONSIN ELECTRIC CODE.)

▲ USE 2" DIA. RIGID NONMETALLIC CONDUIT EXCEPT AT EXPANSION FITTING. AT EXPANSION FITTING USE RIGID METALLIC CONDUIT 3'-0" INTO PARAPET ON DECK AND WING SIDES OF THE JOINT OPENING.

◨ EXISTING CONST. JOINT

▨ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE OF ABUTMENT.

F.F. DENOTES FRONT FACE

E.F. DENOTES EACH FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CLP | PLANS CK'D. AEB

EAST ABUTMENT WING 3 DETAILS

SHEET 9 OF 29
674

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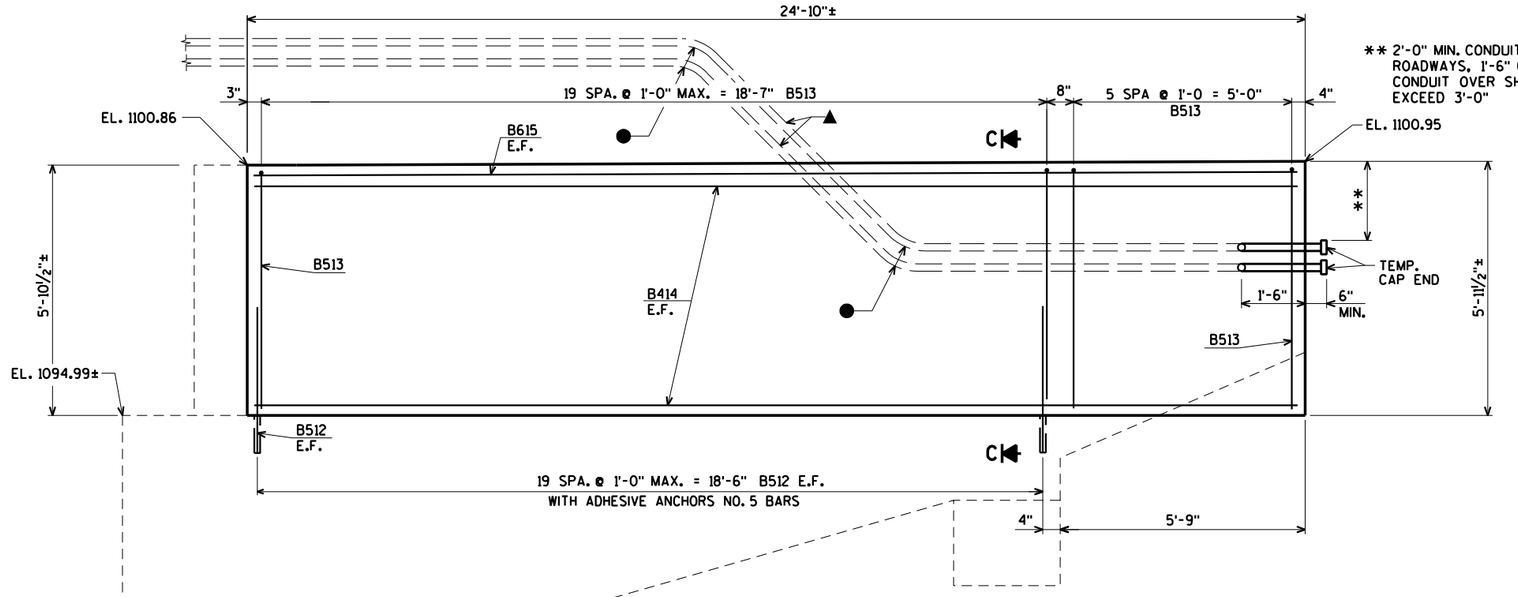
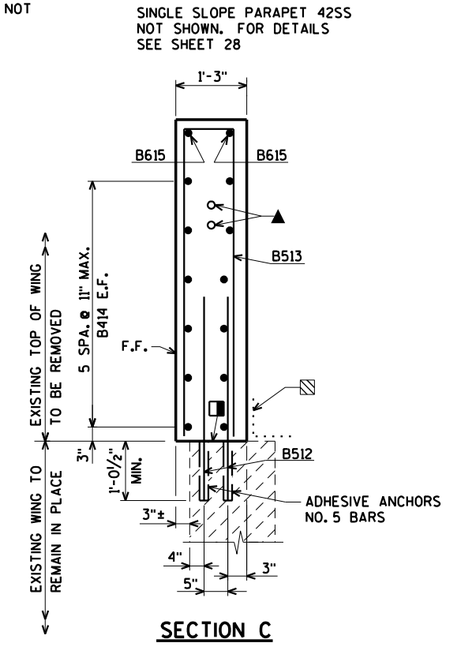
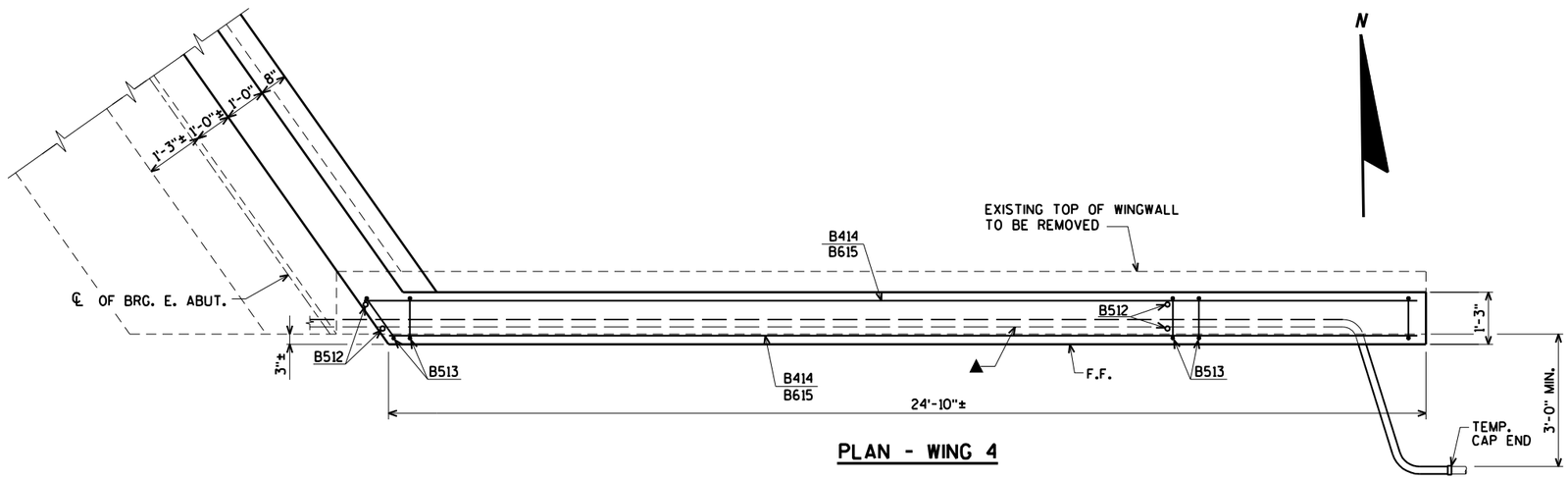
STATE PROJECT NUMBER

1166-06-75





SECTION C



ELEVATION - WING 4

PLAN - WING 4

N

- ● 45° BEND IN CONDUIT. (USE MINIMUM BENDING RADIUS PER WISCONSIN ELECTRIC CODE.)
- ▲ USE 2" DIA. RIGID NONMETALLIC CONDUIT EXCEPT AT EXPANSION FITTING. AT EXPANSION FITTING USE RIGID METALLIC CONDUIT 3'-0" INTO PARAPET ON DECK AND WING SIDES OF THE JOINT OPENING.
- ◨ EXISTING CONST. JOINT
- ▨ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE OF ABUTMENT.

F.F. DENOTES FRONT FACE

E.F. DENOTES EACH FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CLP | PLANS CK'D. AEB

EAST ABUTMENT WING 4 DETAILS

SHEET 10 OF 29
675

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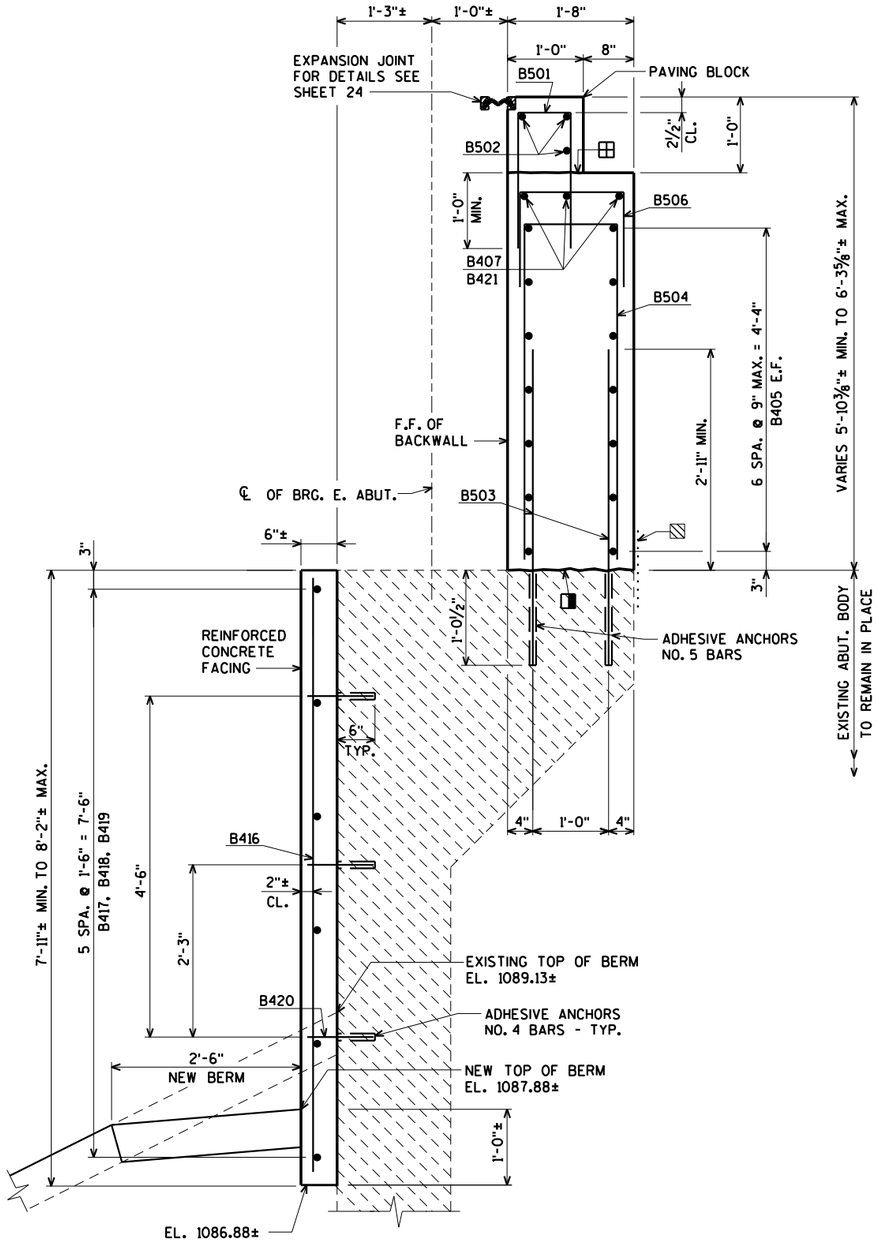
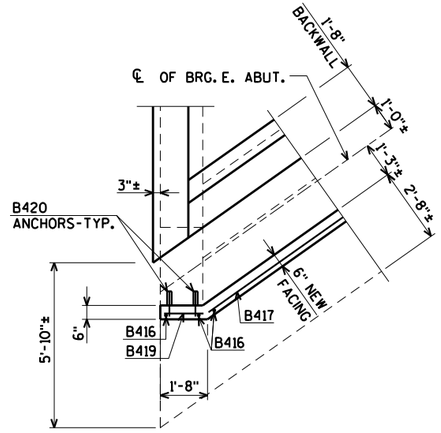
STATE PROJECT NUMBER

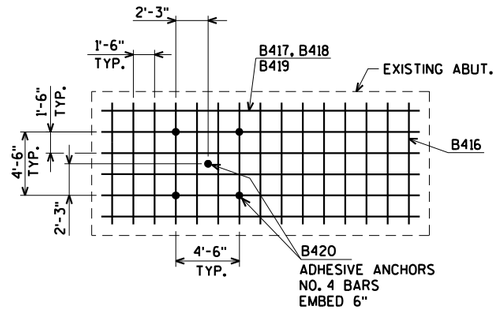
1166-06-75



SECTION A



FACING DETAIL AT WING 3



ABUTMENT FACING GRID DETAIL

NOTE: COST FOR REMOVAL OF CONCRETE ON ABUTMENT FACE IS INCIDENTAL TO THE BID ITEM "REMOVING OLD STRUCTURE STATION 91+42.00 'EB'"

FOR LOCATION OF SECTION A SEE SHEET 8

◨ EXISTING CONST. JOINT

▨ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE OF ABUTMENT AND WINGS.

⊞ CONST. JOINT - POUR CONCRETE ABOVE THIS JOINT AFTER SUBSTRUCTURE IS IN PLACE. STRIKE OFF AS SHOWN AND LEAVE ROUGH.

B.F. DENOTES BACK FACE

F.F. DENOTES FRONT FACE

E.F. DENOTES EACH FACE

BILL OF BARS

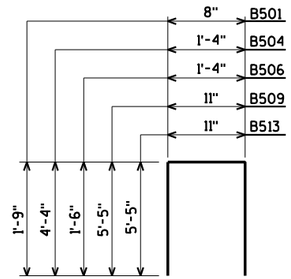
WEIGHT INCLUDES PARAPET STEEL SHOWN ON SHEET 28

	BAR NO.	COATED BAR	NO. REQ'D. STAGE 3	NO. REQ'D. STAGE 4	LENGTH	BENT BAR	BUNDLED BAR SERIES	8.120" COATED LOCATION
	B501	X	60	58	3-11	X		PAVING BLOCK VERT.
	B502	X	27	24	8-1			PAVING BLOCK HORIZ.
▲	B503	X	120	116	4-0			BACKWALL VERT. DOWELS E.F.
	B504	X	60	58	9-9	X		BACKWALL VERT.
	B405	X	28	28	31-6			BACKWALL HORIZ. E.F.
	B506	X	22	26	4-2	X		BACKWALL VERT.
	B407	X	3	---	22-11			BACKWALL HORIZ. STAGE 3
▲	B508	X	32	---	4-0			WING 3 VERT. DOWELS E.F.
	B509	X	19	---	11-4	X		WING 3 VERT.
	B410	X	12	---	17-0			WING 3 HORIZ. E.F.
	B611	X	2	---	17-0			WING 3 HORIZ. E.F. TOP
▲	B512	X	---	40	4-0			WING 4 VERT. DOWELS E.F.
	B513	X	---	26	11-0	X		WING 4 VERT.
	B414	X	---	12	23-4			WING 4 HORIZ. E.F.
	B615	X	---	2	23-4			WING 4 HORIZ. E.F. TOP
	B416	X	41	40	7-7			CONCRETE FACING VERT.
	B417	X	12	---	31-2			CONCRETE FACING HORIZ. STAGE 3
	B418	X	---	12	30-7			CONCRETE FACING HORIZ. STAGE 4
	B419	X	---	6	1-4			CONCRETE FACING HORIZ. @ WING 3
••	B420	X	38	41	0-10			CONCRETE FACING HORIZ. DOWELS
	B421	X	3	---	25-0			BACKWALL HORIZ. STAGE 4

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

▲ ADHESIVE ANCHORS NO. 5 BAR

•• ADHESIVE ANCHORS NO. 4 BAR



NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CLP | PLANS CK'D. AEB

EAST ABUTMENT BILL OF BARS AND DETAILS

SHEET 11 OF 29
676

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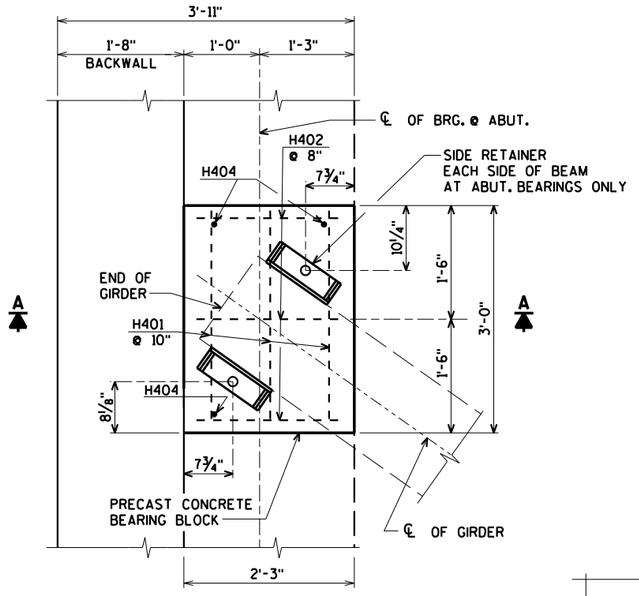
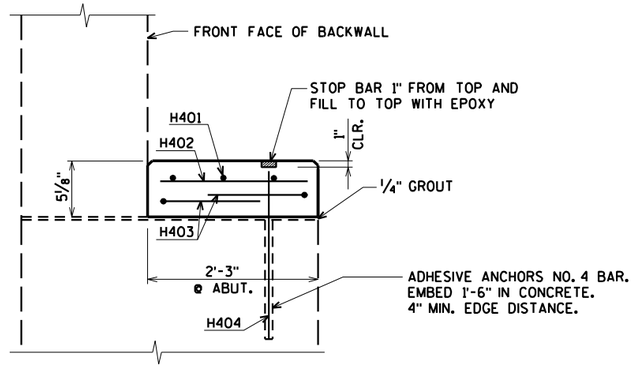
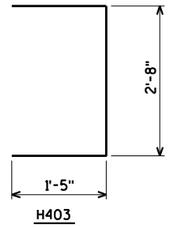
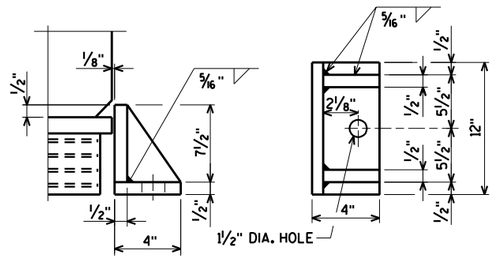


BEARING BLOCK PLAN @ ABUTMENT



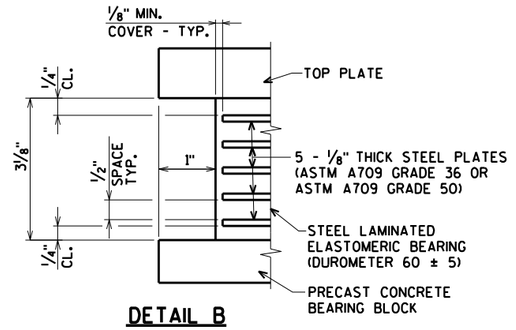
SECTION A





SIDE RETAINER

EQUIVALENT ROLLED ANGLE WITH STIFFENERS WILL BE ALLOWED IN LIEU OF WELDED PLATES



DETAIL B

BILL OF BARS

	BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR	SERIES	270# COATED W. ABUT. 270# COATED E. ABUT. * LOCATION
	H401	X	72	2-8				ABUTMENT BLOCK
	H402	X	120	1-11				ABUTMENT BLOCK
	H403	X	48	5-4	X			ABUTMENT BLOCK
▲	H404	X	72	1-10				ABUTMENT BLOCK

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

▲ ADHESIVE ANCHORS NO. 4 BAR

* BAR STEEL TO BE INCLUDED IN THE BID PRICE FOR PRECAST CONCRETE BEARING BLOCKS.

NOTES

BURN EXISTING ANCHOR BOLTS OFF FLUSH WITH BEAM SEAT.

CONTRACTOR MAY PROPOSE A CAST-IN-PLACE ALTERNATE SUBJECT TO REVIEW AND APPROVAL BY THE BUREAU OF STRUCTURES.

REMOVAL OF EXISTING LAMINATED ELASTOMERIC BEARING PADS AND STEEL SHIMS SHALL BE PAID AT THE UNIT PRICE BID FOR "REMOVING BEARINGS B-49-24".

GROUT ¼" BENEATH PRECAST ELEMENT. ELIMINATE STRESS CONCENTRATION AND REDUCE CRACKING.

ALL RETAINER STRUCTURAL STEEL SHALL BE ASTM A709, GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

ALL RETAINER STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563. LUBRICANT AND TEST FOR COATED NUTS.

ALL MATERIALS, INCLUDING ANCHOR BOLTS, USED FOR SIDE RETAINERS SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STRUCTURAL STEEL HS"

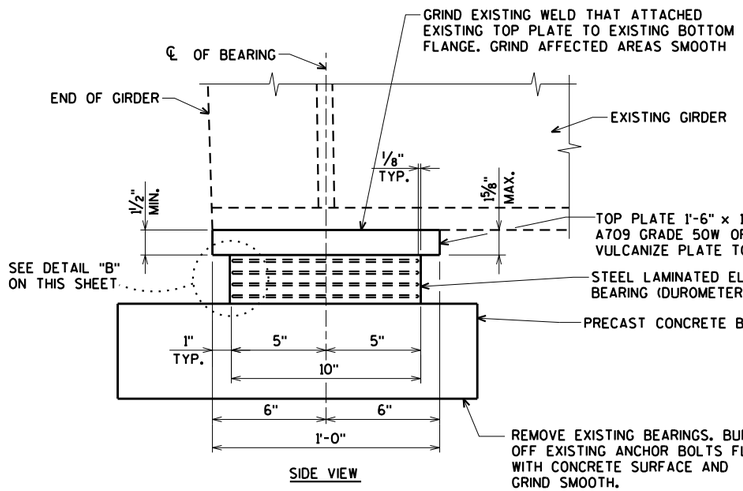
ALL MATERIAL USED FOR BEARINGS SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING PADS ELASTOMERIC LAMINATED".

ALL STRUCTURAL STEEL PLATES SHALL BE FLAT ROLLED WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL.

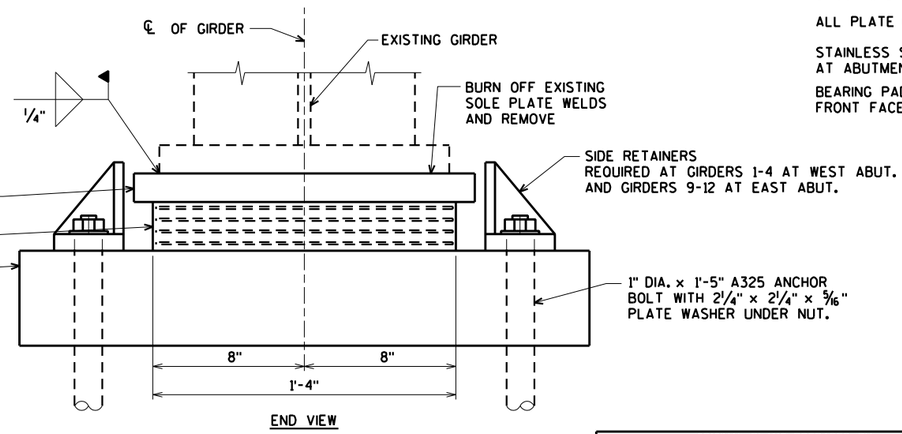
ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

STAINLESS STEEL BEVELED ANCHOR PLATE CAST TO GIRDERS AT ABUTMENT ENDS.

BEARING PAD SHALL BE MARKED INDICATING THE SIDE FACING THE FRONT FACE OF THE ABUTMENT.



SIDE VIEW



END VIEW

EXPANSION BEARING DETAIL AT ABUTMENTS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CLP | PLANS CK'D. AEB

BEARING DETAILS AT ABUTMENTS

SHEET 12 OF 29
677

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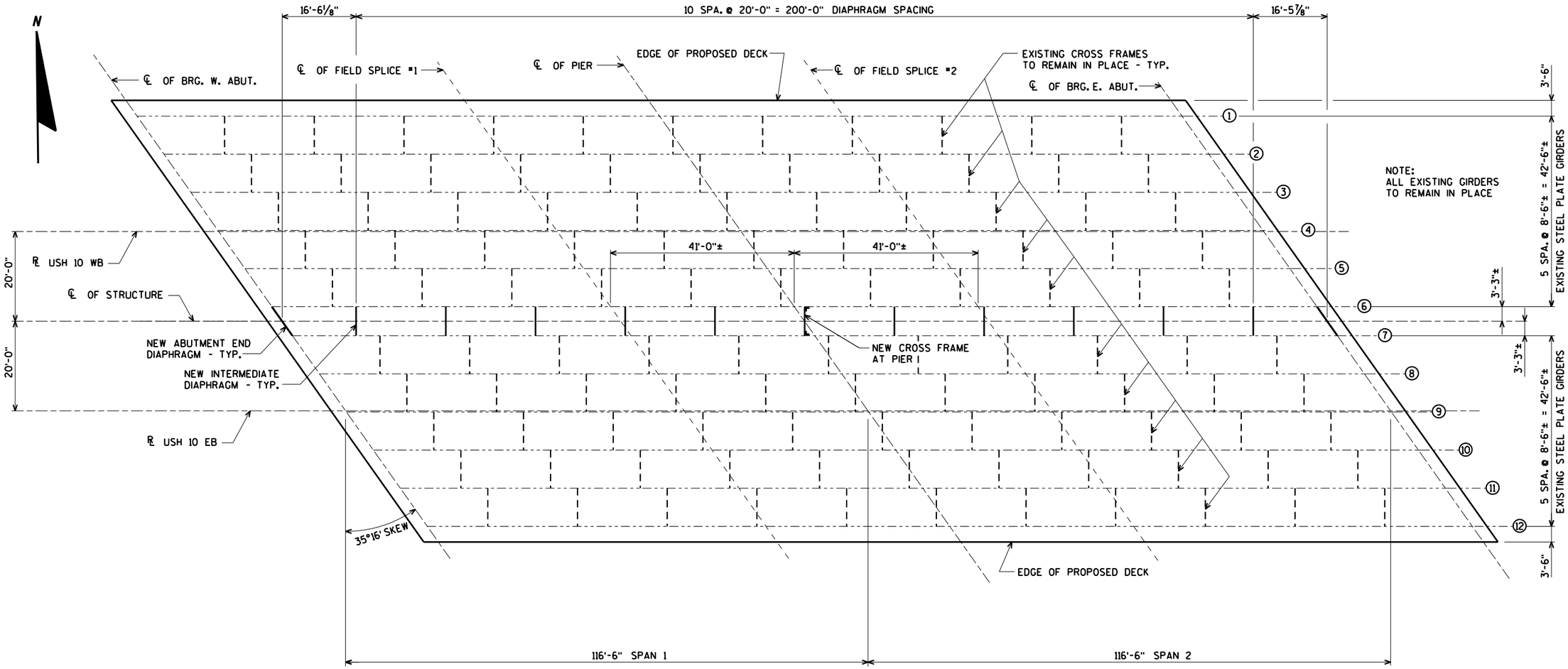

FRAMING PLAN

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

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FRAMING PLAN

SHEET 13 OF 29
678

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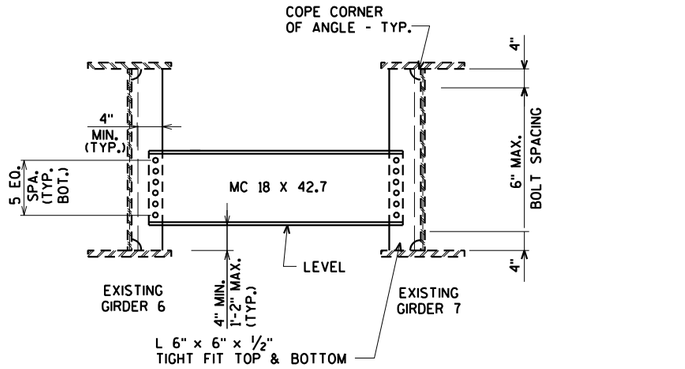
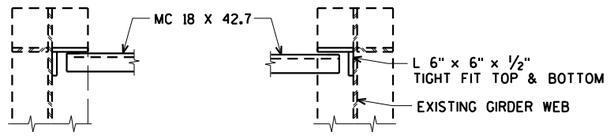
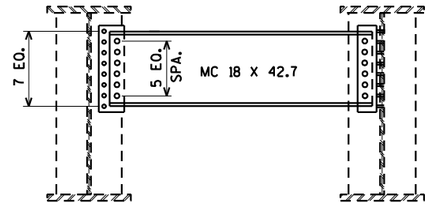
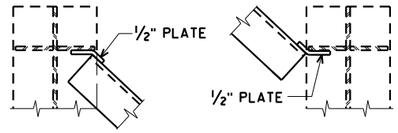




BETWEEN GIRDERS 6 & 7

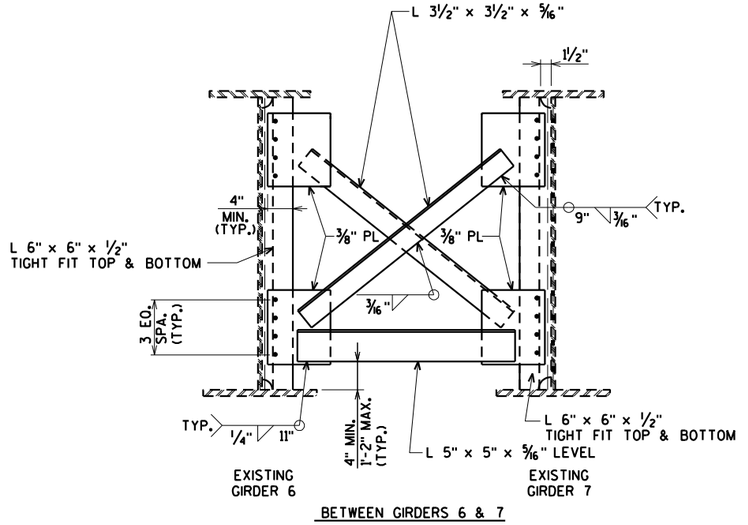
DIAPHRAGMS IN-SPAN





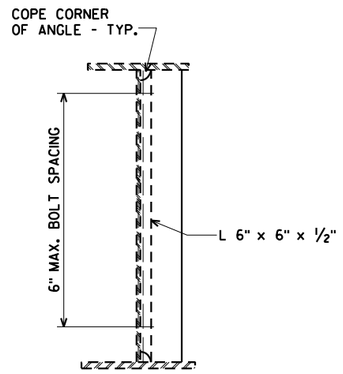
BETWEEN GIRDERS 6 & 7

END DIAPHRAGM CONNECTION AT ABUTMENTS



BETWEEN GIRDERS 6 & 7

CROSS FRAME DETAIL AT PIER



NEW STIFFENER PLATE DETAILS

NOTES

ALL BOLTED CONNECTIONS SHALL BE FRICTION TYPE USING ¾" DIA. HIGH STRENGTH BOLTS (ASTM A325) WITH DOUBLE WASHERS.

HOLES IN CROSS FRAME CONNECTIONS MAY BE OVERSIZED @ 15⁄16 " DIA. IN 1 PLY.

ALL CROSS FRAMING MEMBERS, GUSSET PLATES AND CONN. BARS TO BE ASTM A709, GRADE 50.

FIELD DRILLING BOLT HOLES SHALL BE CONSIDERED INCIDENTAL TO "STRUCTURAL STEEL HS".

NEW DIAPHRAGMS ARE TO BE TOP COATED IN THE FIELD TO MATCH PAINT COLOR OF THE EXISTING BRIDGE.

EXISTING SURFACES OF STEEL GIRDERS ARE TO BE CLEANED AND PRIMED ON THE MATING SURFACES PRIOR TO THE NEW DIAPHRAGM INSTALLATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

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CROSS FRAME DETAILS

SHEET 14 OF 29
679

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STATE PROJECT NUMBER

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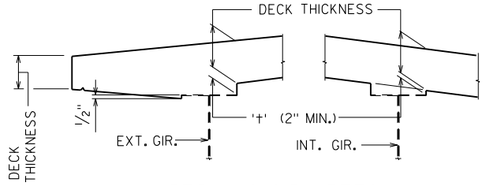
TOP OF DECK ELEVATIONS

SPAN 1	℄ OF BRG. WEST ABUT.	0.1 PT.	0.2 PT.	0.3 PT.	0.4 PT.	0.5 PT.	0.6 PT.	0.7 PT.	0.8 PT.	0.9 PT.	℄ OF PIER
NORTH PARAPET FLOWLINE	1100.12	1100.16	1100.19	1100.23	1100.27	1100.31	1100.35	1100.38	1100.42	1100.46	1100.50
GIRDER 1	1100.17	1100.21	1100.24	1100.28	1100.32	1100.36	1100.40	1100.43	1100.47	1100.51	1100.55
GIRDER 2	1100.36	1100.40	1100.43	1100.47	1100.51	1100.55	1100.59	1100.62	1100.66	1100.70	1100.74
GIRDER 3	1100.55	1100.59	1100.62	1100.66	1100.70	1100.74	1100.78	1100.81	1100.85	1100.89	1100.93
GIRDER 4	1100.74	1100.78	1100.81	1100.85	1100.89	1100.93	1100.97	1101.00	1101.04	1101.08	1101.12
RL USH 10 WB	1100.74	1100.78	1100.82	1100.86	1100.90	1100.93	1100.97	1101.01	1101.05	1101.08	1101.12
GIRDER 5	1100.93	1100.97	1101.00	1101.04	1101.08	1101.12	1101.16	1101.19	1101.23	1101.27	1101.31
MEDIAN N. FLOWLINE (RDWY.)	1101.03	1101.07	1101.11	1101.15	1101.19	1101.22	1101.26	1101.30	1101.34	1101.37	1101.41
CROWN POINT	1101.05	1101.09	1101.13	1101.17	1101.20	1101.24	1101.28	1101.31	1101.35	1101.39	1101.43
GIRDER 6	1101.02	1101.06	1101.10	1101.13	1101.17	1101.21	1101.25	1101.28	1101.32	1101.36	1101.40
GIRDER 7	1100.91	1100.94	1100.98	1101.02	1101.06	1101.09	1101.13	1101.17	1101.21	1101.24	1101.28
MEDIAN S. FLOWLINE(RDWY.)	1100.84	1100.88	1100.92	1100.95	1100.99	1101.03	1101.06	1101.10	1101.14	1101.18	1101.21
GIRDER 8	1100.76	1100.79	1100.83	1100.87	1100.91	1100.94	1100.98	1101.02	1101.06	1101.09	1101.13
RL USH 10 EB	1100.61	1100.65	1100.69	1100.72	1100.76	1100.80	1100.83	1100.87	1100.91	1100.95	1100.98
GIRDER 9	1100.61	1100.64	1100.68	1100.72	1100.76	1100.79	1100.83	1100.87	1100.90	1100.94	1100.98
GIRDER 10	1100.46	1100.49	1100.53	1100.57	1100.60	1100.64	1100.68	1100.72	1100.75	1100.79	1100.83
GIRDER 11	1100.30	1100.34	1100.38	1100.42	1100.45	1100.49	1100.53	1100.57	1100.60	1100.64	1100.68
GIRDER 12	1100.15	1100.19	1100.23	1100.27	1100.30	1100.34	1100.38	1100.41	1100.45	1100.49	1100.53
SOUTH PARAPET FLOWLINE	1100.11	1100.15	1100.19	1100.23	1100.26	1100.30	1100.34	1100.37	1100.41	1100.45	1100.49

SPAN 2	℄ OF PIER	0.1 PT.	0.2 PT.	0.3 PT.	0.4 PT.	0.5 PT.	0.6 PT.	0.7 PT.	0.8 PT.	0.9 PT.	℄ OF BRG. EAST ABUT.
NORTH PARAPET FLOWLINE	1100.50	1100.54	1100.57	1100.61	1100.65	1100.69	1100.73	1100.76	1100.80	1100.84	1100.88
GIRDER 1	1100.55	1100.59	1100.62	1100.66	1100.70	1100.74	1100.78	1100.81	1100.85	1100.89	1100.93
GIRDER 2	1100.74	1100.78	1100.81	1100.85	1100.89	1100.93	1100.97	1101.00	1101.04	1101.08	1101.12
GIRDER 3	1100.93	1100.97	1101.00	1101.04	1101.08	1101.12	1101.16	1101.19	1101.23	1101.27	1101.31
GIRDER 4	1101.12	1101.16	1101.19	1101.23	1101.27	1101.31	1101.34	1101.38	1101.42	1101.46	1101.50
RL USH 10 WB	1101.12	1101.16	1101.20	1101.24	1101.27	1101.31	1101.35	1101.39	1101.43	1101.46	1101.50
GIRDER 5	1101.31	1101.34	1101.38	1101.42	1101.46	1101.50	1101.53	1101.57	1101.61	1101.65	1101.69
MEDIAN N. FLOWLINE (RDWY.)	1101.41	1101.45	1101.49	1101.53	1101.56	1101.60	1101.64	1101.68	1101.72	1101.75	1101.79
CROWN POINT	1101.43	1101.46	1101.50	1101.54	1101.58	1101.61	1101.65	1101.69	1101.72	1101.76	1101.80
GIRDER 6	1101.40	1101.43	1101.47	1101.51	1101.54	1101.58	1101.62	1101.66	1101.69	1101.73	1101.77
GIRDER 7	1101.28	1101.32	1101.35	1101.39	1101.43	1101.47	1101.50	1101.54	1101.58	1101.62	1101.65
MEDIAN S. FLOWLINE(RDWY.)	1101.21	1101.25	1101.29	1101.33	1101.36	1101.40	1101.44	1101.47	1101.51	1101.55	1101.59
GIRDER 8	1101.13	1101.17	1101.20	1101.24	1101.28	1101.32	1101.35	1101.39	1101.43	1101.47	1101.50
RL USH 10 EB	1100.98	1101.02	1101.06	1101.10	1101.13	1101.17	1101.21	1101.24	1101.28	1101.32	1101.36
GIRDER 9	1100.98	1101.02	1101.05	1101.09	1101.13	1101.17	1101.20	1101.24	1101.28	1101.31	1101.35
GIRDER 10	1100.83	1100.87	1100.90	1100.94	1100.98	1101.01	1101.05	1101.09	1101.13	1101.16	1101.20
GIRDER 11	1100.68	1100.71	1100.75	1100.79	1100.83	1100.86	1100.90	1100.94	1100.98	1101.01	1101.05
GIRDER 12	1100.53	1100.56	1100.60	1100.64	1100.68	1100.71	1100.75	1100.79	1100.82	1100.86	1100.90
SOUTH PARAPET FLOWLINE	1100.49	1100.52	1100.56	1100.60	1100.64	1100.67	1100.71	1100.75	1100.78	1100.82	1100.86

ELEVATIONS SHOWN ARE FINISHED DECK AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION.



DECK HAUNCH DETAIL

IF 2" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN AND PROFILE BY MORE THAN 1/4".

TO DETERMINE 'T', ELEV. OF TOP OF GIRDERS AT ℄ OF SUBSTRUCTURE UNITS AND AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
-TOP OF GIRDER ELEVATION
+ DEADLOAD DEFLECTION
-DECK THICKNESS
=HAUNCH HEIGHT '+'

NOTE:
AN AVERAGE HAUNCH ('T') OF 7 1/2" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CJM | PLANS CK'D. AEB

DECK ELEVATIONS

SHEET 15 OF 29
680

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4/21/2021

PENTABLE:BReau_shd_util.tbl

STATE PROJECT NUMBER

1166-06-75

TABLE OF DEFLECTIONS

SPAN 1 DEFLECTIONS												
	DEFLECTION	℄ BRG. W. ABUT	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ OF PIER
GIRDER 1	CONCRETE ONLY	0.0	0.8	1.4	1.8	1.8	1.6	1.2	0.8	0.3	0.1	0.0
GIRDER 2	CONCRETE ONLY	0.0	0.9	1.5	2.0	2.1	1.9	1.4	0.9	0.4	0.1	0.0
GIRDER 3	CONCRETE ONLY	0.0	0.9	1.5	2.0	2.1	1.9	1.4	0.9	0.4	0.1	0.0
GIRDER 4	CONCRETE ONLY	0.0	0.9	1.5	2.0	2.1	1.9	1.4	0.9	0.4	0.1	0.0
GIRDER 5	CONCRETE ONLY	0.0	0.9	1.5	2.0	2.1	1.9	1.4	0.9	0.4	0.1	0.0
GIRDER 6	CONCRETE ONLY	0.0	0.8	1.4	1.9	2.0	1.8	1.3	0.8	0.4	0.1	0.0
GIRDER 7	CONCRETE ONLY	0.0	0.8	1.4	1.9	2.0	1.8	1.3	0.8	0.4	0.1	0.0
GIRDER 8	CONCRETE ONLY	0.0	0.9	1.5	2.0	2.1	1.9	1.4	0.9	0.4	0.1	0.0
GIRDER 9	CONCRETE ONLY	0.0	0.9	1.5	2.0	2.1	1.9	1.4	0.9	0.4	0.1	0.0
GIRDER 10	CONCRETE ONLY	0.0	0.9	1.5	2.0	2.1	1.9	1.4	0.9	0.4	0.1	0.0
GIRDER 11	CONCRETE ONLY	0.0	0.9	1.5	2.0	2.1	1.9	1.4	0.9	0.4	0.1	0.0
GIRDER 12	CONCRETE ONLY	0.0	0.8	1.4	1.8	1.8	1.6	1.2	0.8	0.3	0.1	0.0

SPAN 2 DEFLECTIONS												
	DEFLECTION	℄ OF PIER	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	℄ BRG. E. ABUT.
GIRDER 1	CONCRETE ONLY	0.0	0.1	0.3	0.7	1.1	1.5	1.7	1.6	1.3	0.7	0.0
GIRDER 2	CONCRETE ONLY	0.0	0.1	0.4	0.9	1.4	1.9	2.1	2.0	1.5	0.9	0.0
GIRDER 3	CONCRETE ONLY	0.0	0.1	0.4	0.9	1.4	1.9	2.1	2.0	1.5	0.9	0.0
GIRDER 4	CONCRETE ONLY	0.0	0.1	0.4	0.9	1.4	1.9	2.1	2.0	1.5	0.9	0.0
GIRDER 5	CONCRETE ONLY	0.0	0.1	0.4	0.9	1.4	1.9	2.1	2.0	1.5	0.9	0.0
GIRDER 6	CONCRETE ONLY	0.0	0.1	0.4	0.8	1.2	1.7	1.9	1.8	1.3	0.8	0.0
GIRDER 7	CONCRETE ONLY	0.0	0.1	0.4	0.8	1.2	1.7	1.9	1.8	1.3	0.8	0.0
GIRDER 8	CONCRETE ONLY	0.0	0.1	0.4	0.9	1.4	1.9	2.1	2.0	1.5	0.9	0.0
GIRDER 9	CONCRETE ONLY	0.0	0.1	0.4	0.9	1.4	1.9	2.1	2.0	1.5	0.9	0.0
GIRDER 10	CONCRETE ONLY	0.0	0.1	0.4	0.9	1.4	1.9	2.1	2.0	1.5	0.9	0.0
GIRDER 11	CONCRETE ONLY	0.0	0.1	0.4	0.9	1.4	1.9	2.1	2.0	1.5	0.9	0.0
GIRDER 12	CONCRETE ONLY	0.0	0.1	0.3	0.7	1.1	1.5	1.7	1.6	1.3	0.7	0.0

DEFLECTIONS ARE GIVEN IN INCHES.
NEGATIVE DEFLECTION VALUE DENOTES AN UPWARD DELFECTION.
DEFLECTIONS ARE THEORETICAL AND MAY VARY IN THE FIELD.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CJM | PLANS CK'D. AEB

TABLE OF DEFLECTIONS

SHEET 16 OF 29
681

ORIGINAL PLANS PREPARED BY
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3433 Oakwood Hills Parkway
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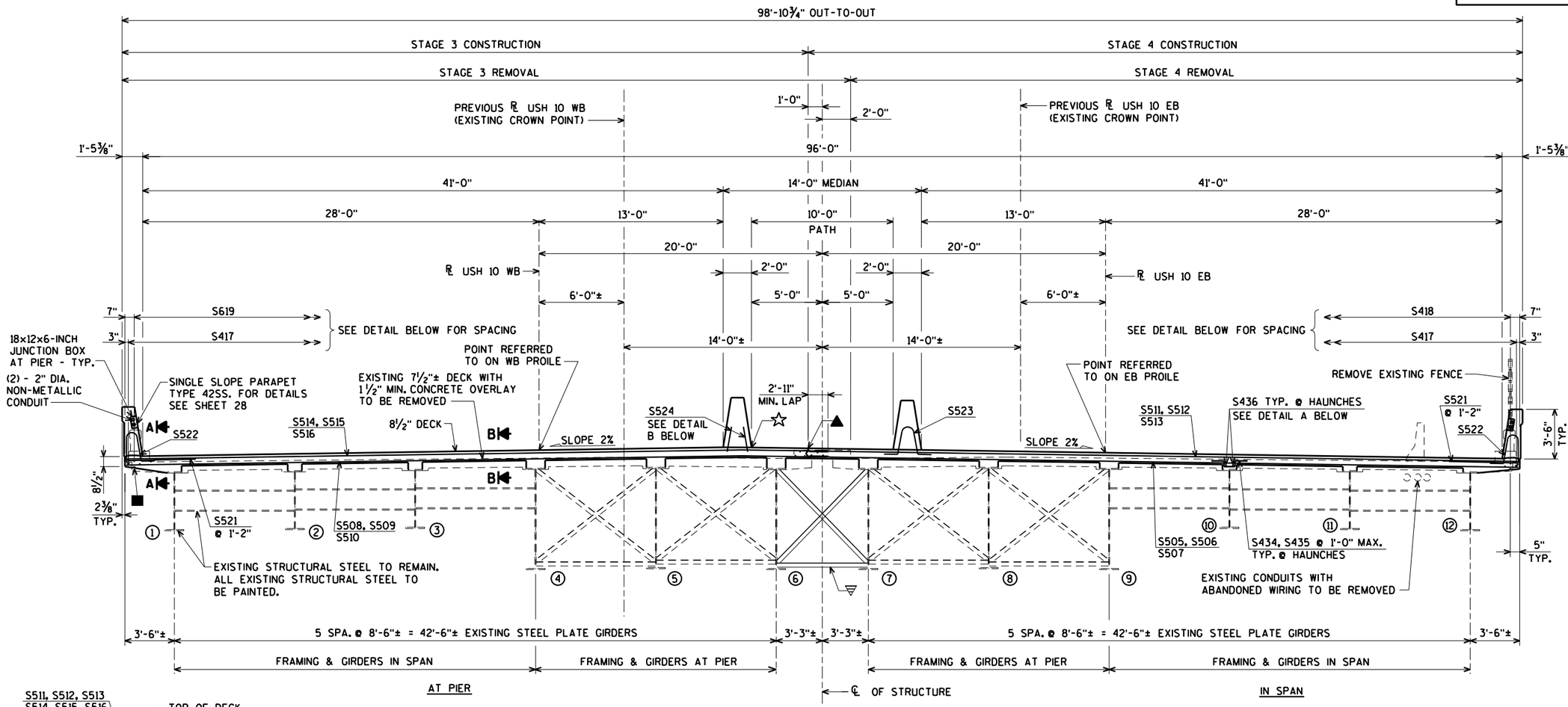
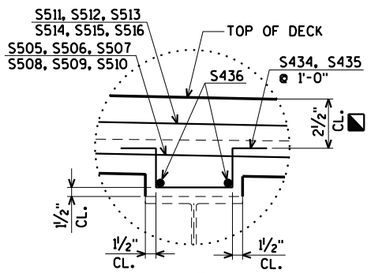
STATE PROJECT NUMBER
1166-06-75

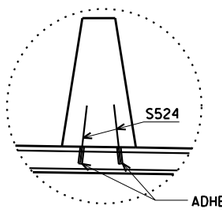


TYPICAL SECTION THRU BRIDGE
(LOOKING EAST)



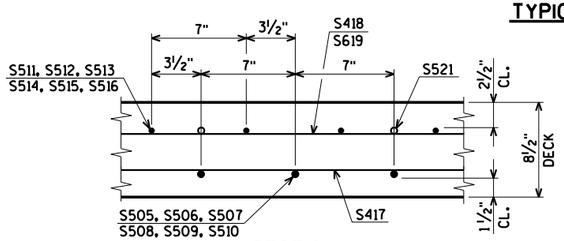
DETAIL A

▬ TILT S434, S435 BARS AS REQ'D. TO MAINTAIN 2½" CLEAR

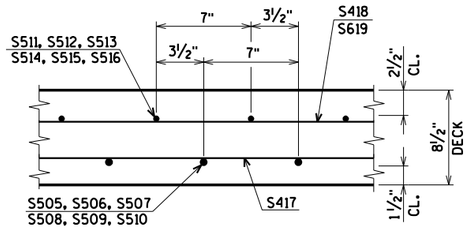


ADHESIVE ANCHORS NO. 5 BARS AT 8" SPA. EMBED 5½" IN CONCRETE.

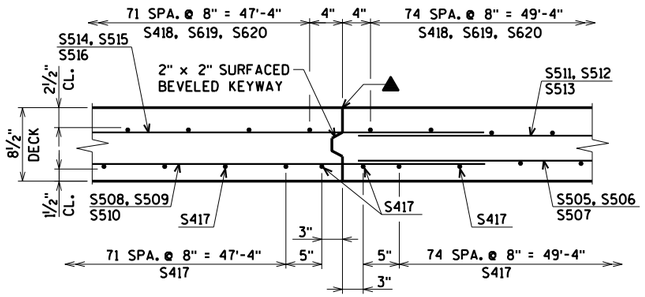
DETAIL B



SECTION A



SECTION B



LONGITUDINAL CONST. JOINT
(LOOKING EAST)

- ⏢ ADHESIVE ANCHORS NO. 5 BAR
- ☆ CROWN POINT OF NEW CROSS SECTION.
- ▲ LONGIT. CONST. JOINT.
- ⩛ ADD CROSS-FRAMING AND DIAPHRAGMS AT MIDDLE BAY TO MATCH EXISTING CROSS-FRAMING AND DIAPHRAGMS.
- ■ ¾" V - GROOVE. TERMINATE 2'-0" FROM FRONT FACE OF ABUTMENTS - TYP.

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STRUCTURE B-49-24

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SUPERSTRUCTURE

SHEET 17 OF 29
682

ORIGINAL PLANS PREPARED BY
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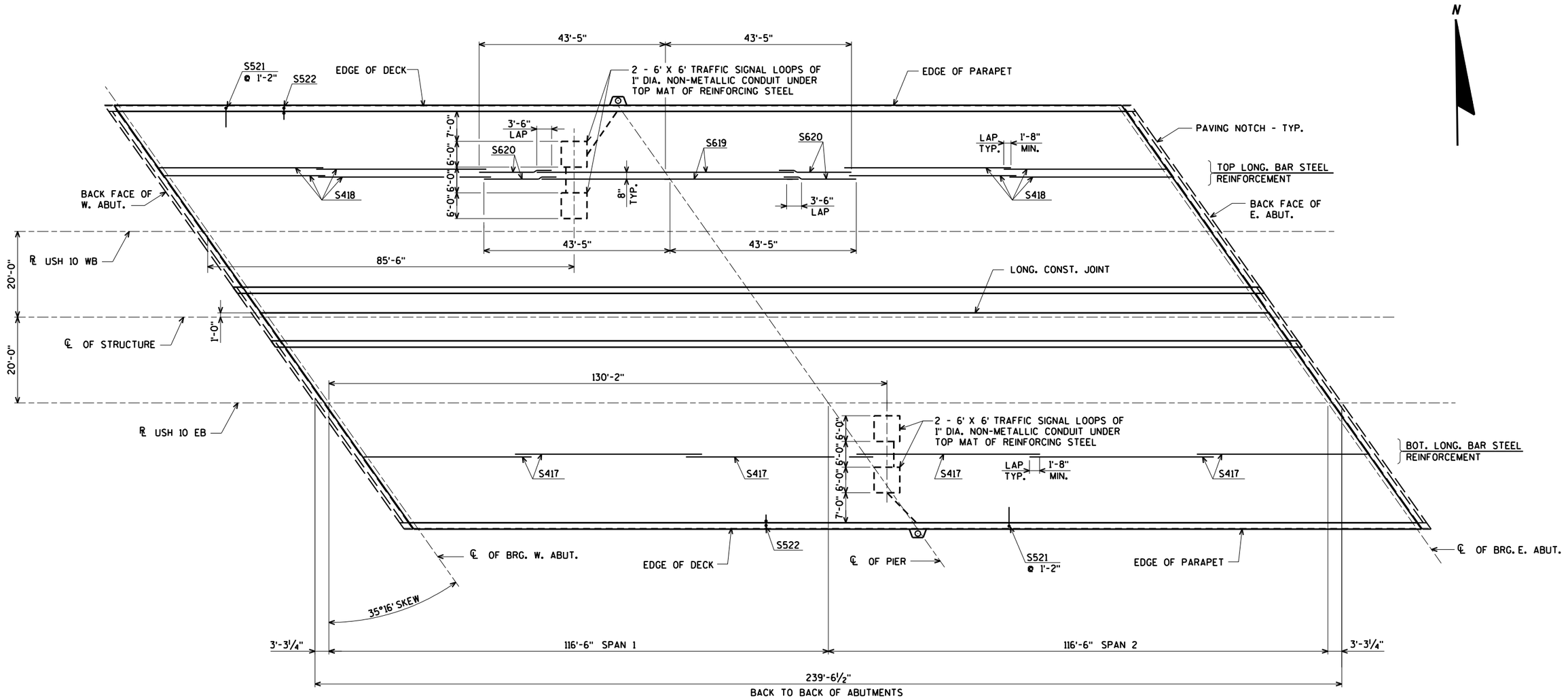

PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

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SUPERSTRUCTURE PLAN

SHEET 18 OF 29
683

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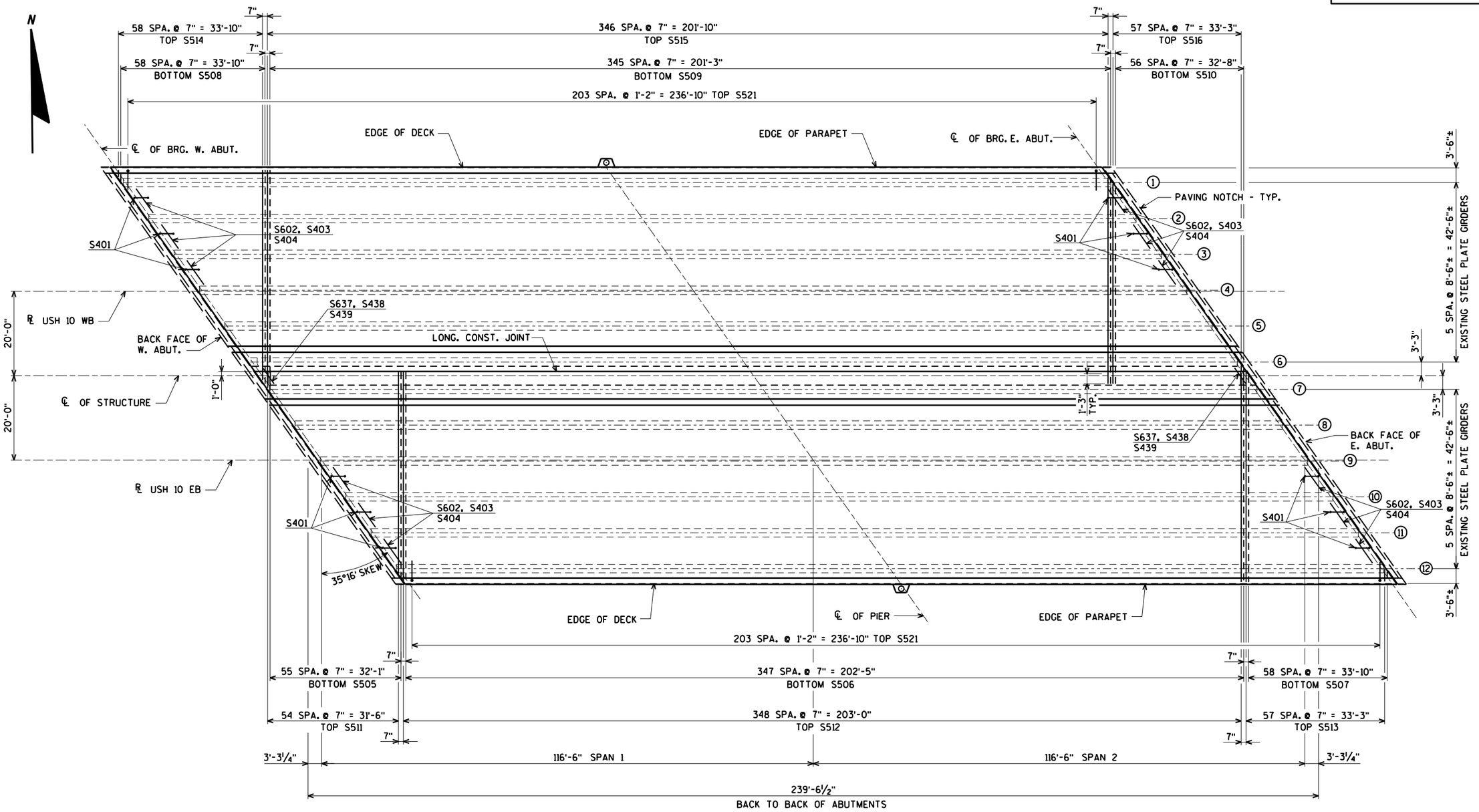

PLAN

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STRUCTURE B-49-24

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TRANSVERSE DECK STEEL LAYOUT

SHEET 19 OF 29
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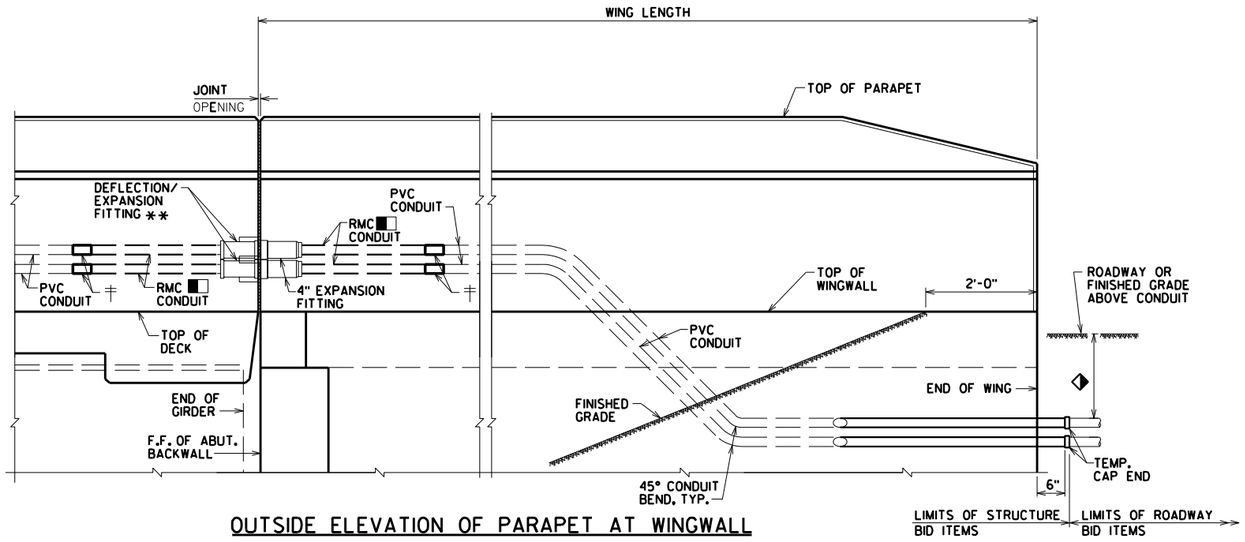
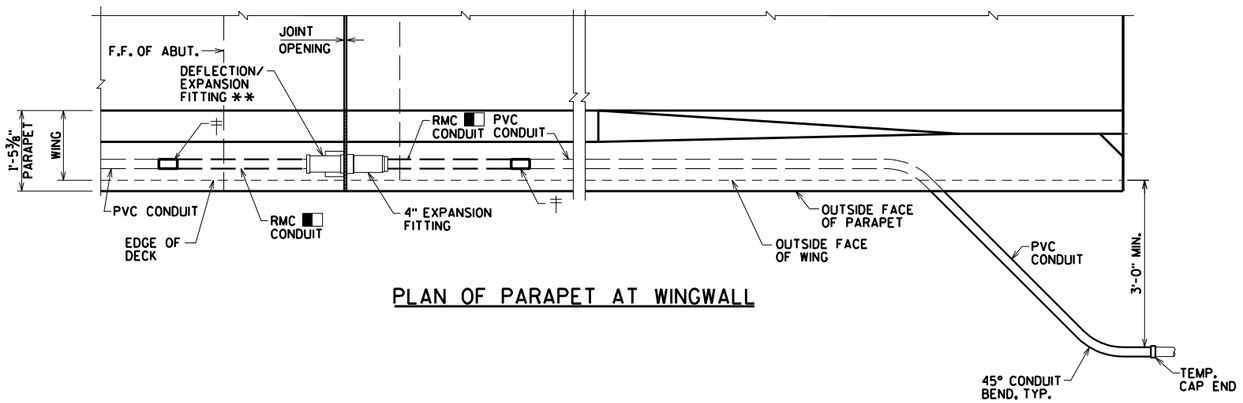
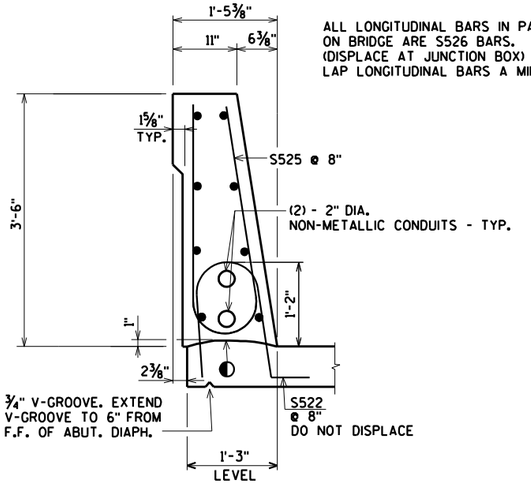


OUTSIDE ELEVATION OF PARAPET AT WINGWALL



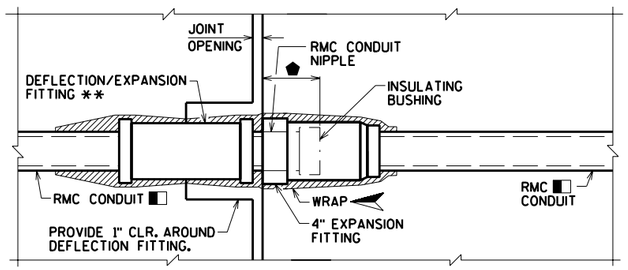
PLAN OF PARAPET AT WINGWALL



ALL LONGITUDINAL BARS IN PARAPET ON BRIDGE ARE S526 BARS. (DISPLACE AT JUNCTION BOX) LAP LONGITUDINAL BARS A MIN. OF 1'-9".

SECTION THRU EXTERIOR PARAPET ON BRIDGE

◐ CONST. JOINT - STRIKE OFF AS SHOWN.



DEFLECTION/EXPANSION AND 4" EXPANSION FITTING

THIS DETAIL ACCOMMODATES A MAXIMUM OF 4" TOTAL MOVEMENT AND UP TO 30 DEGREES OF ANGULAR MISALIGNMENT IN ANY DIRECTION. BOND JUMPER NOT SHOWN FOR CLARITY

NOTES

◆ 2'-0" MIN. CONDUIT COVER UNDER ROADWAYS. 1'-6" OTHERWISE. CONDUIT COVER SHOULD NOT EXCEED 3'-0".

CONDUIT SHALL BE EMBEDDED 2" CLEAR.

USE 2" DIA. RIGID NONMETALLIC CONDUIT (PVC) UNLESS NOTED OTHERWISE.

CONDUIT FITTINGS, CONDUIT BENDS, AND ADAPTER FITTINGS INCIDENTAL TO CONDUIT WORK.

CONDUIT BENDS SHALL CONFORM TO THE NATIONAL ELECTRIC CODE.

PROVIDE JUNCTION BOXES FROM THE APPROVED PRODUCTS LIST.

F.F. DENOTES FRONT FACE.

LEGEND

‡ NONMETALLIC CONDUIT TO METALLIC CONDUIT ADAPTOR FITTING (UL OR NRTL LISTED FOR ELECTRICAL USE SHALL BE USED)

◧ USE 2" DIA. RIGID METALLIC (RMC) CONDUIT AT FITTINGS. PROVIDE RMC FOR 3'-0" MIN. ON EACH SIDE OF JOINT OPENINGS UNLESS NOTED OTHERWISE.

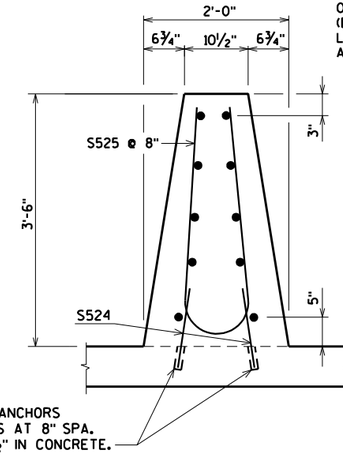
◥ SPONGE RUBBER WRAP TO BE AASHTO M153, TYPE 1 OR EQUIVALENT - ¼" MINIMUM THICKNESS. PROVIDE WRAP FOR THE ENTIRE LENGTH OF THE FITTING OR AS SHOWN. SPONGE RUBBER WRAP INCIDENTAL TO "CONDUIT RIGID METALLIC 2-INCH"

** DEFLECTION/EXPANSION FITTING REQUIREMENTS (IF USED):
- UP TO ¾" CONDUIT CONTRACTION OR EXPANSION AND UP TO 30 DEGREES OF ANGULAR MISALIGNMENT IN ANY DIRECTION WITH BONDING JUMPER

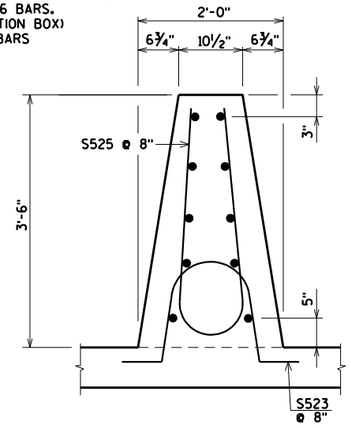
PVC = POLYVINYL CHLORIDE (RIGID NONMETALLIC) CONDUIT

RMC = RIGID METALLIC CONDUIT

ALL LONGITUDINAL BARS IN PARAPET ON BRIDGE ARE S526 BARS. (DISPLACE AT JUNCTION BOX) LAP LONGITUDINAL BARS A MIN. OF 1'-9".



SECTION THRU NORTH INTERIOR PARAPET ON BRIDGE



SECTION THRU SOUTH INTERIOR PARAPET ON BRIDGE

⬟ POSITION MOVABLE END OF CONDUIT INSIDE EXPANSION FITTING, SUCH THAT IT WILL HAVE THE SAME ALLOWANCE FOR MOVEMENT (EXPANSION/CONTRACTION) AS THE EXPANSION DEVICE SET IN PLACE IN THE DECK BELOW IT. TAKE CARE TO INSTALL EXPANSION FITTING AND CONDUIT EXACTLY PARALLEL TO BRIDGE MOVEMENT.

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STRUCTURE B-49-24

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CONDUIT DETAILS

SHEET 20 OF 29
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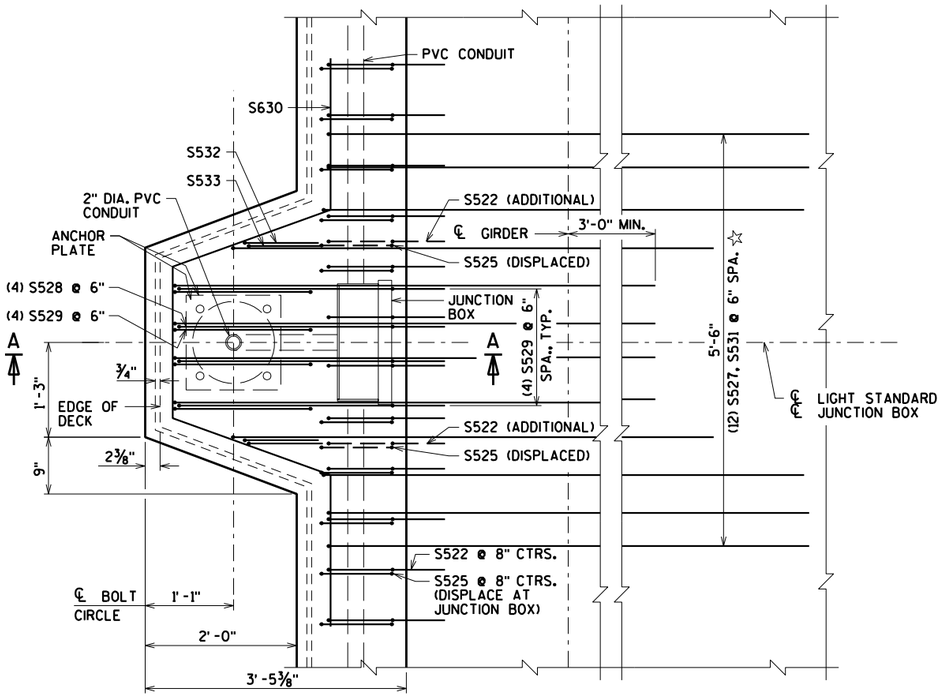
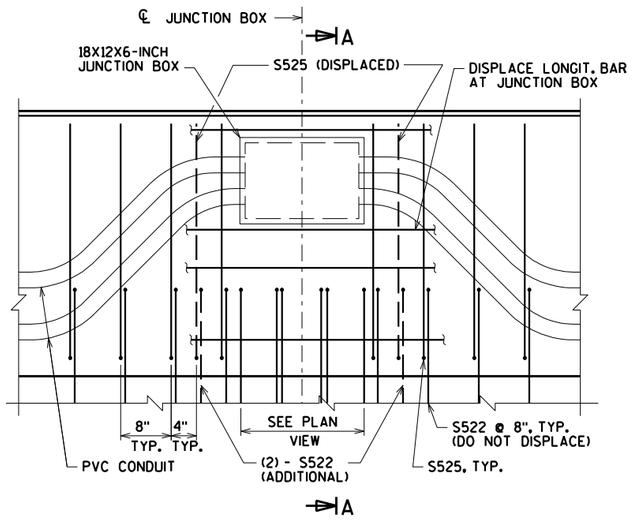


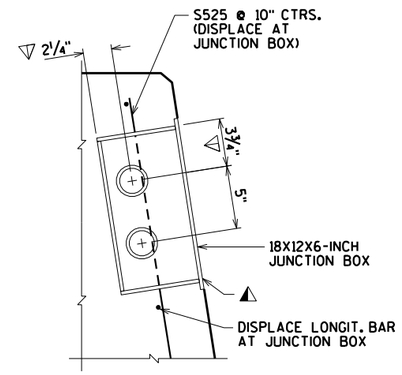
PLAN AT LIGHT STANDARD

(DECK STEEL NOT SHOWN FOR CLARITY)



INSIDE ELEVATION AT JUNCTION BOX

(DECK STEEL NOT SHOWN FOR CLARITY)



JUNCTION BOX DETAIL

NOTES

BID ITEM SHALL BE "ANCHOR ASSEMBLIES POLES ON STRUCTURES", EACH

CONDUIT SHALL BE EMBEDDED 2" CLEAR.

USE 2" DIA. RIGID NONMETALLIC CONDUIT (PVC) UNLESS NOTED OTHERWISE.

CONDUIT FITTINGS, CONDUIT BENDS, AND ADAPTER FITTINGS INCIDENTAL TO CONDUIT WORK.

PROVIDE JUNCTION BOXES FROM THE APPROVED PRODUCTS LIST.

SEE "CONDUIT DETAILS" SHEET FOR ADDITIONAL INFORMATION.

LEGEND

◐ CONSTRUCTION JOINT, STRIKE OFF AS SHOWN.

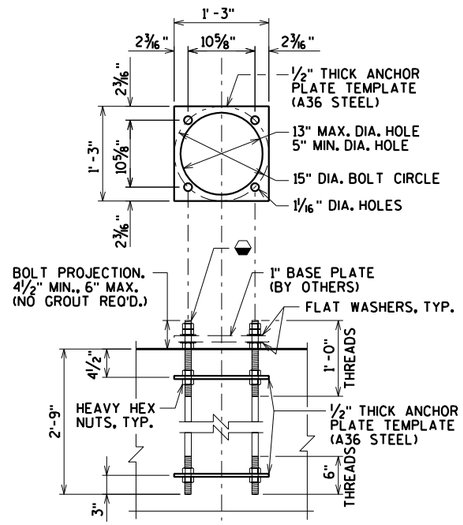
▲ CUT OUT ± 1" OF GASKET AT BOTTOM OF JUNCTION BOX COVER TO ALLOW FOR DRAINAGE.

▽ LOCATION OF CONDUIT IS MEASURED FROM OUTSIDE EDGE OF JUNCTION BOX.

PVC = POLYVINYL CHLORIDE (RIGID NONMETALLIC) CONDUIT

☆ THESE BARS ARE IN ADDITION TO STANDARD TRANSVERSE BARS IN DECK.

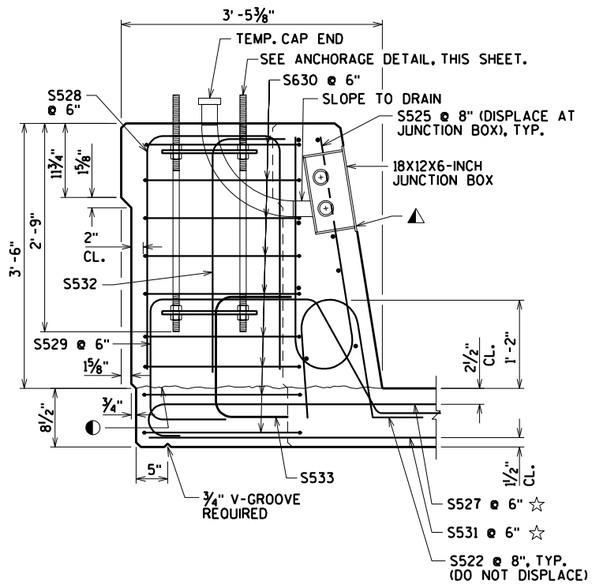
⬬ 1" DIA. ANCHOR RODS ASTM F1554 GR 55, HEAVY HEX NUTS ASTM A563, AND WASHERS ASTM F436. ANCHOR ASSEMBLIES SHALL BE GALVANIZED PER SECTION 531 OF THE STANDARD SPECIFICATION. PROVIDE (2) WASHERS AND (7) NUTS PER ANCHOR ROD.



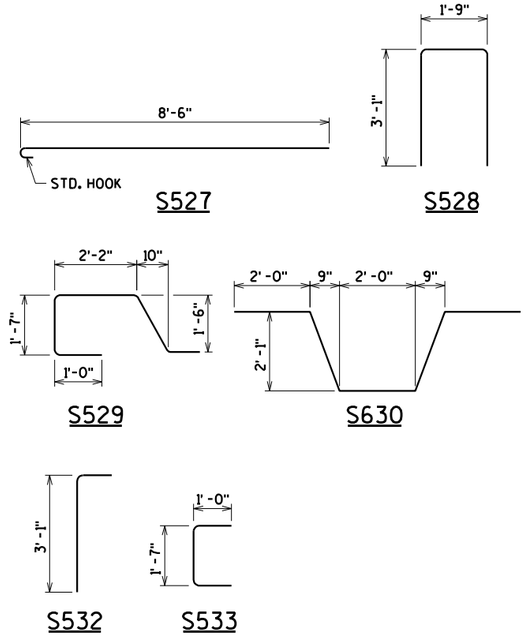
ANCHOR ROD ASSEMBLY DETAIL

(2 REQ'D.)

(4) - ANCHOR RODS REQUIRED PER ASSEMBLY



SECTION A-A



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NO.	DATE	REVISION	BY

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STRUCTURE B-49-24

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LIGHT STANDARD DETAILS

SHEET 21 OF 29
686

ORIGINAL PLANS PREPARED BY

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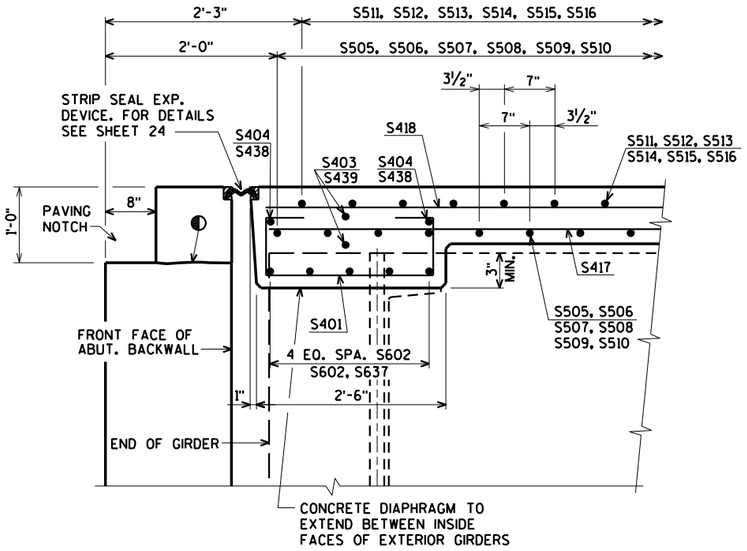
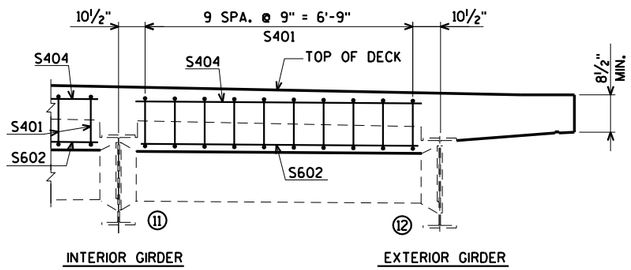
STATE PROJECT NUMBER

1166-06-75

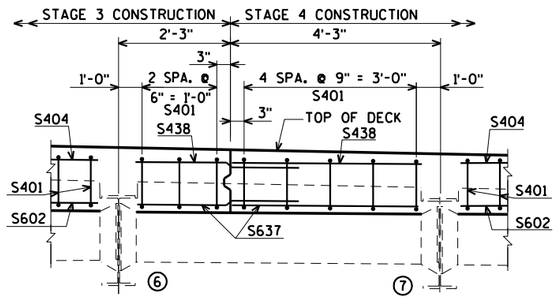


PART LONGITUDINAL SECTION

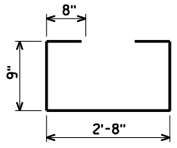
◐ CONSTRUCTION JOINT - POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.



PART TRANSVERSE SECTION AT DIAPHRAGM



PART TRANSVERSE SECTION AT DIAPHRAGM BETWEEN GIRDERS 6 & 7



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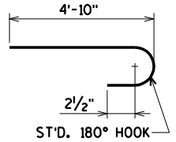

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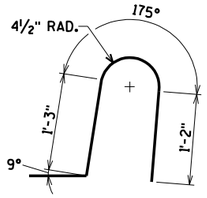

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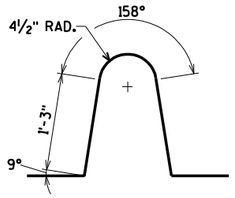

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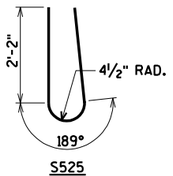

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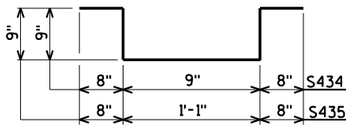
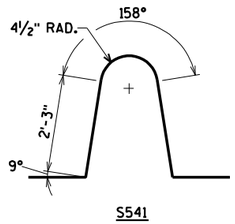




S541

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
S505	1 SERIES OF 56	3'-1" TO 48'-5"
S507	1 SERIES OF 59	1'-11" TO 49'-5"
S508	1 SERIES OF 59	2'-6" TO 50'-4"
S510	1 SERIES OF 57	3'-4" TO 49'-6"
S511	1 SERIES OF 55	3'-6" TO 48'-0"
S513	1 SERIES OF 58	1'-6" TO 49'-0"
S514	1 SERIES OF 59	2'-11" TO 50'-9"
S516	1 SERIES OF 58	2'-11" TO 49'-11"

BUNDLE AND TAG EACH SERIES SEPARATELY.

BILL OF BARS

	BAR NO.	COATED BAR	NO. REQ'D. STAGE 3	NO. REQ'D. STAGE 4	LENGTH	BENT BAR	BUNDLED BAR SERIES	188,600# COATED LOCATION
	S401	X	112	112	5-2	X		DIAPH. @ ABUT. VERT.
	S602	X	25	25	8-6			DIAPH. @ ABUT. HORIZ. BOT.
	S403	X	10	10	8-6			DIAPH. @ ABUT. HORIZ.
	S404	X	10	10	8-6			DIAPH. @ ABUT. HORIZ. TOP
	S505	X	---	56	25-9		⊗	DECK TRANS. BOT. WING 1
	S506	X	---	348	49-11			DECK TRANS. BOT.
	S507	X	---	59	25-8		⊗	DECK TRANS. BOT. WING 4
	S508	X	59	---	26-5		⊗	DECK TRANS. BOT. WING 2
	S509	X	346	---	51-2			DECK TRANS. BOT.
	S510	X	57	---	26-5		⊗	DECK TRANS. BOT. WING 3
	S511	X	---	55	25-9		⊗	DECK TRANS. TOP WING 1
	S512	X	---	349	49-11			DECK TRANS. TOP
	S513	X	---	58	25-3		⊗	DECK TRANS. TOP WING 4
	S514	X	59	---	26-10		⊗	DECK TRANS. TOP WING 2
	S515	X	347	---	51-2			DECK TRANS. TOP
	S516	X	58	---	26-5		⊗	DECK TRANS. TOP WING 3
	S417	X	432	456	41-3			DECK LONG. BOT.
	S418	X	288	300	39-9			DECK LONG. TOP
	S619	X	72	75	60-0			DECK LONG. AT PIER
	S620	X	144	150	16-11			DECK LONG. TOP
	S521	X	204	204	5-5	X		DECK TRANS. TOP @ EDGES
	S522	X	354	354	4-5	X		PARAPET VERT. @ DECK EXT. PARAPET
	S523	X	---	354	5-2	X		PARAPET VERT. @ DECK INT. PARAPET
▲	S524	X	708	---	1-10			PARAPET VERT. @ DECK INT. PARAPET
	S525	X	708	708	6-8	X		PARAPET VERT.
	S526	X	90	90	49-11			PARAPET HORIZ.
	S527	X	12	12	5-5	X		LIGHT STD. TRANS. DECK TOP
	S528	X	4	4	7-8	X		LIGHT STD. VERT. PARAPET
	S529	X	4	4	7-0	X		LIGHT STD. VERT. PARAPET
	S630	X	9	9	10-0	X		LIGHT STD. HORIZ. PARAPET
	S531	X	12	12	4-10			LIGHT STD. TRANS. DECK BOT.
	S532	X	2	2	4-0	X		LIGHT STD. VERT. PARAPET
	S533	X	2	2	3-4	X		LIGHT STD. VERT. PARAPET
	S434	X	900	900	3-4	X		DECK VERT. @ BEAM HAUNCH
	S435	X	492	900	3-8	X		DECK VERT. @ BEAM HAUNCH
	S436	X	60	60	49-11			DECK LONG. @ BEAM HAUNCH
	S637	X	---	10	4-9			DIAPH. @ ABUT. HORIZ. BOT. BETWEEN GIRDERS 6 & 7
	S438	X	---	4	4-9			DIAPH. @ ABUT. HORIZ. BOT. BETWEEN GIRDERS 6 & 7
	S439	X	---	4	4-9			DIAPH. @ ABUT. HORIZ. BOT. BETWEEN GIRDERS 6 & 7
▲	S540	X	8	---	2-10			MEDIAN PARAPET @ BACKWALL
	S541	X	---	4	7-2	X		MEDIAN PARAPET @ BACKWALL
	S542	X	20	20	0-10			MEDIAN PARAPET @ BACKWALL

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

⊗ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

▲ ADHESIVE ANCHORS NO. 5 BAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CLP | PLANS CK'D. AEB

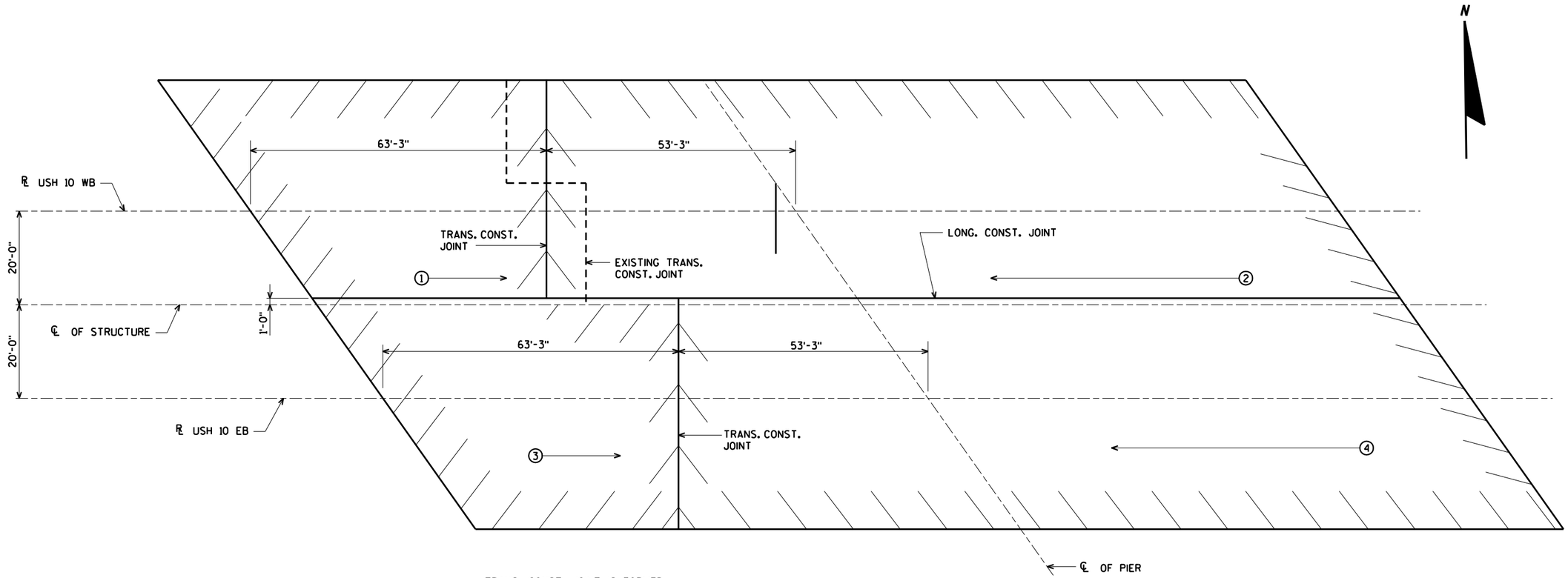
SUPERSTRUCTURE BILL OF BARS AND DETAILS

SHEET 22 OF 29
687

ORIGINAL PLANS PREPARED BY
AYRES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

4/22/2021
PENTABLE:BReau_shd_util.tbl

STATE PROJECT NUMBER
1166-06-75



TRANS. CONST. JOINT IS FORMED BY SURFACED BEVELED 2" X 2"

POURING DIAGRAM

←○— INDICATES POUR NUMBER AND DIRECTION OF POUR

NOTES FOR POURING DIAGRAM

THE TWO POURS MAY BE COMBINED AND THE TRANSVERSE CONSTRUCTION JOINT OMITTED IF THE SECOND POUR CAN BE COMPLETED WITHIN FOUR HOURS AFTER THE FIRST POUR IS PLACED.

THE DIRECTION OF POUR MAY BE REVERSED IF PORTION OF POUR FROM THE PIER CAN BE COMPLETED IN A FOUR HOUR PERIOD.

THE CONTRACTOR MAY SUBMIT AN ALTERNATE POURING SEQUENCE SUBJECT TO THE APPROVAL OF THE STRUCTURES DESIGN SECTION.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

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SUPERSTRUCTURE DETAILS

SHEET 23 OF 29
688

ORIGINAL PLANS PREPARED BY
AYRES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

4/21/2021
PENTABLE:BRdet_shd_util.tbl

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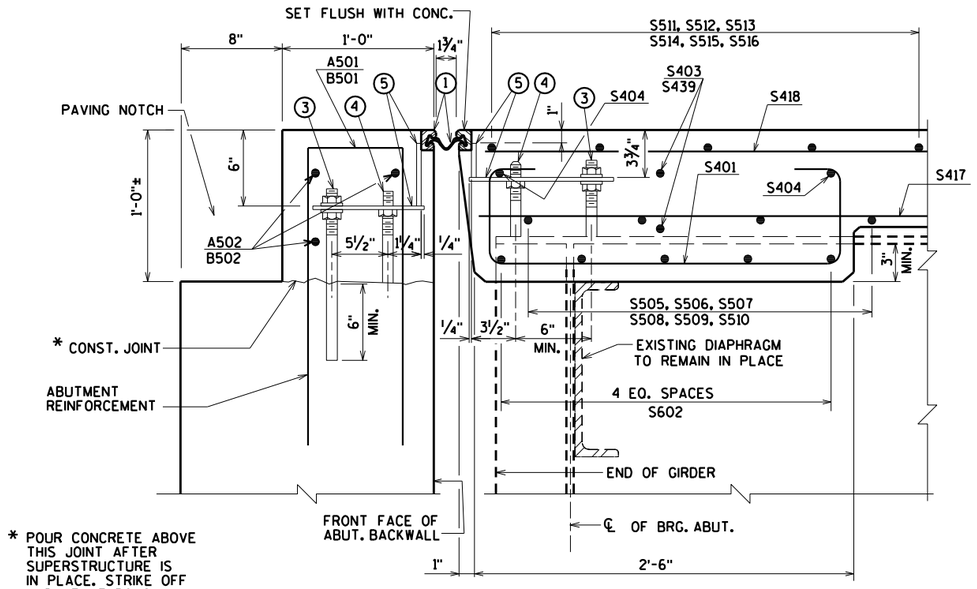
STATE PROJECT NUMBER

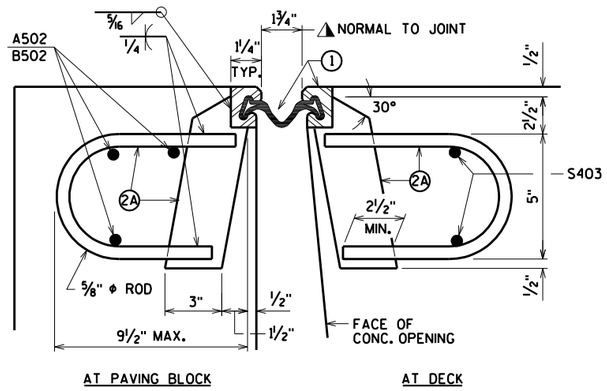
1166-06-75



* POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.

SECTION THRU JOINT AT ABUTMENT

NORMAL TO ℄ SUBSTRUCTURE



SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.

LEGEND

▲ (1) NEOPRENE STRIP SEAL (5 - INCH) AND STEEL EXTRUSIONS. JOINT OPENING AT 1¾". JOINT OPENING NORMAL TO JOINT.

(2) STUDS ⅝"ϕ X 6⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.

(2A) ½" THICK ANCHOR PLATE WITH ⅝"ϕ ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.

(3) ¾" ϕ THREADED ROD WITH 2 NUTS AND PLATE WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.

(4) ¾"ϕ THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.

(5) FABRICATE SUPPORT FROM 3" X ½" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1½" ϕ HOLE FOR NO. 3 AND 1" ϕ HOLE FOR NO. 4.

(6) GALVANIZED PLATE ⅜" X 10" X 2'-2" LONG WITH HOLES FOR NO. 7.

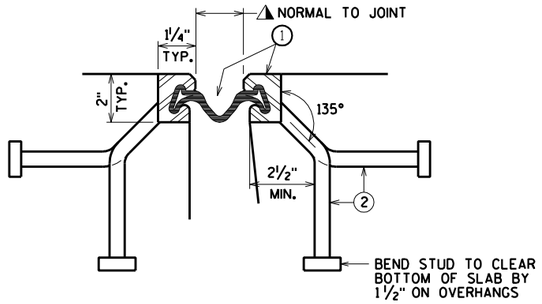
(7) ¾"ϕ X 1½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.

(8) ¾"ϕ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.

(9) ¾"ϕ X 2¼" GALVANIZED THREADED COUPLING.

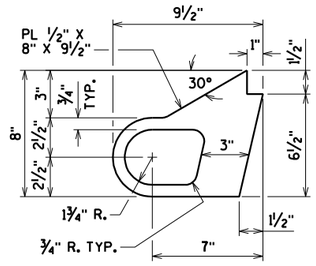
(10) PATH COVER PLATE ⅜" X 2'-0" X LIMITS SHOWN. HOLES FOR NO. 7. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.

(11) 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.



SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS, MEDIANS AND SIDEWALKS



ALTERNATE STRIP SEAL ANCHOR

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

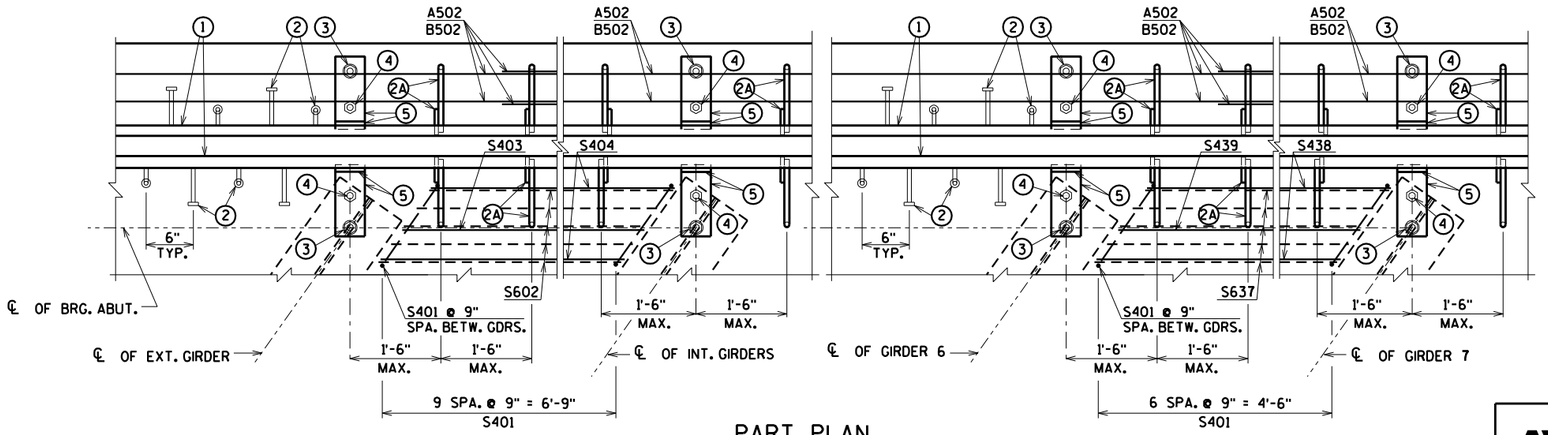
FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

ALL MATERIAL IN THE EXPANSION JOINT ASSEMBY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID AT THE UNIT PRICE BID FOR "EXPANSION DEVICE", LF.

¾" DIA. X 4" LONG STUDS. WELD TO NO. 7, 8, & 14 AS SHOWN.



PART PLAN

8

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WORK THIS SHEET WITH SHEETS 25 - 27

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CLP | PLANS CK'D. AEB

STRIP SEAL EXPANSION DEVICE

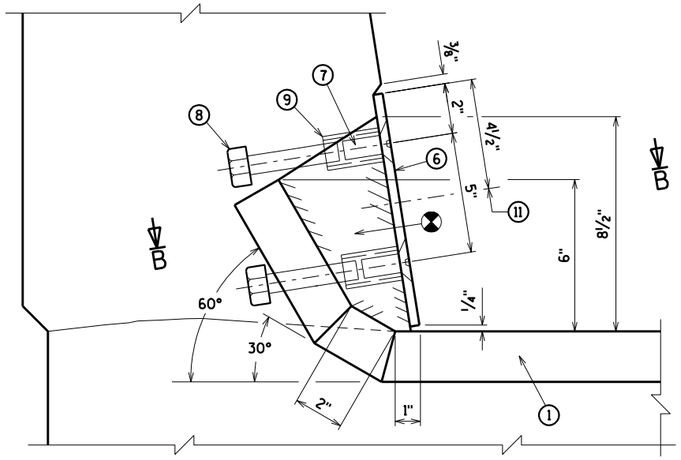
SHEET 24 OF 29

689

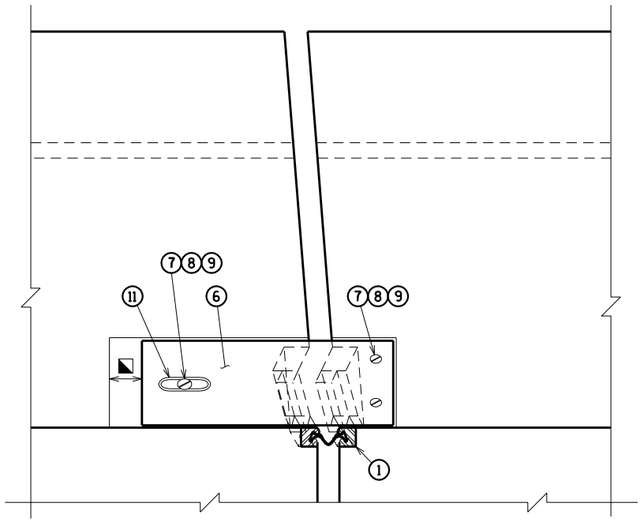
ORIGINAL PLANS PREPARED BY
AYRES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE PROJECT NUMBER

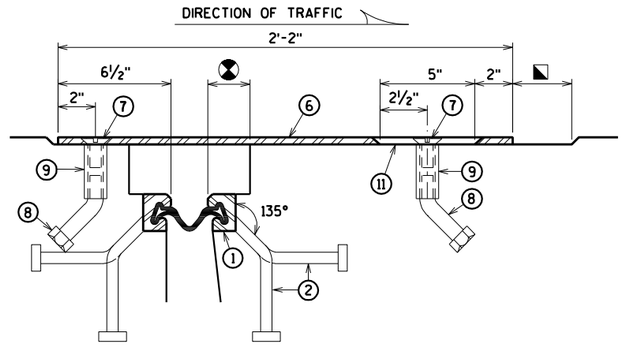
1166-06-75



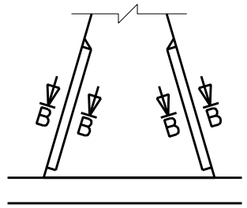
SECTION A-A



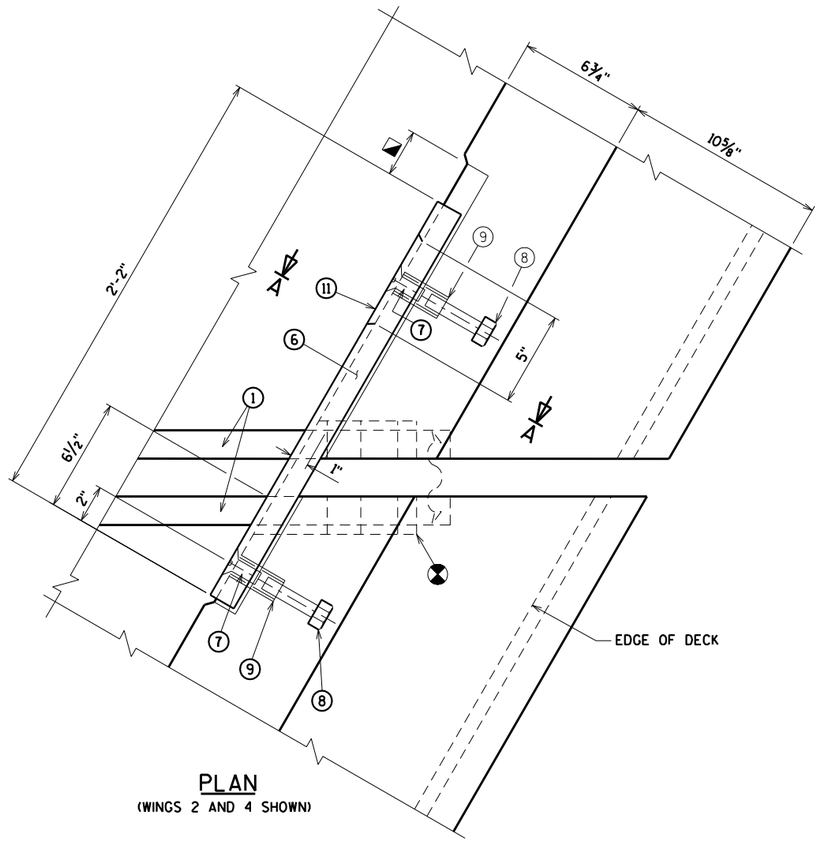
VIEW OF PARAPET PLATE FROM ROADWAY



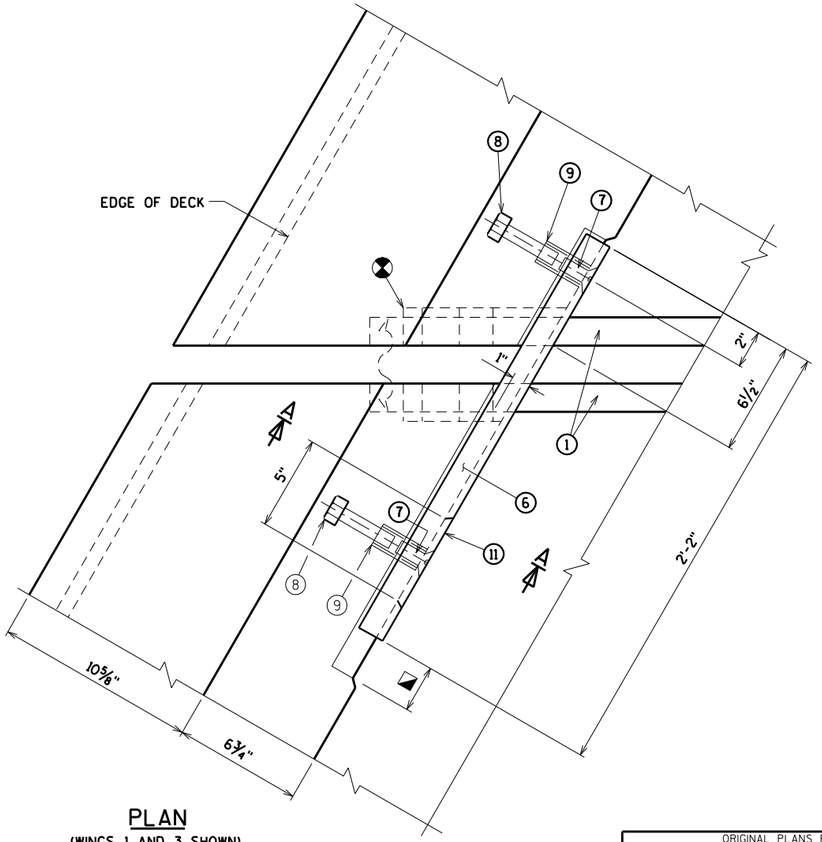
SECTION B-B



SECTION C-C



PLAN
(WINGS 2 AND 4 SHOWN)



PLAN
(WINGS 1 AND 3 SHOWN)

BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

JOINT OPENING DIMENSION ALONG SKEW PLUS ½".

WORK THIS SHEET WITH SHEET 24, 26, 27

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CLP | PLANS CK'D. AEB

COVER PLATE DETAILS

SHEET 25 OF 29
690

ORIGINAL PLANS PREPARED BY
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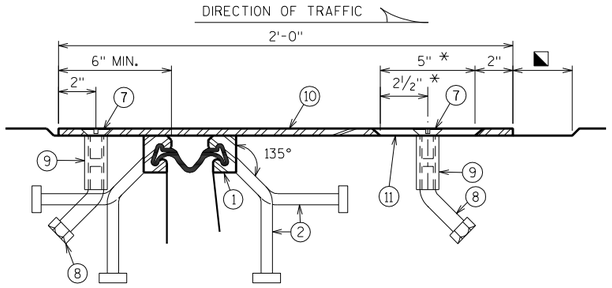
STATE PROJECT NUMBER

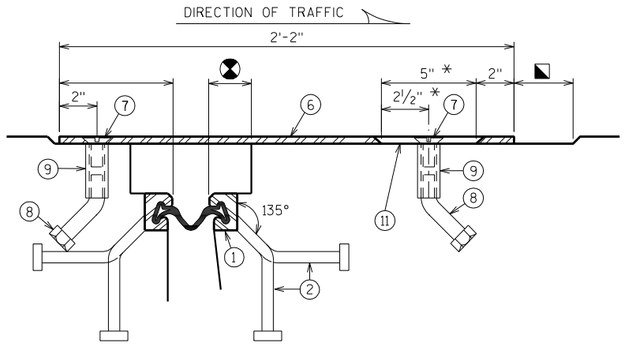
1166-06-75



SECTION C-C

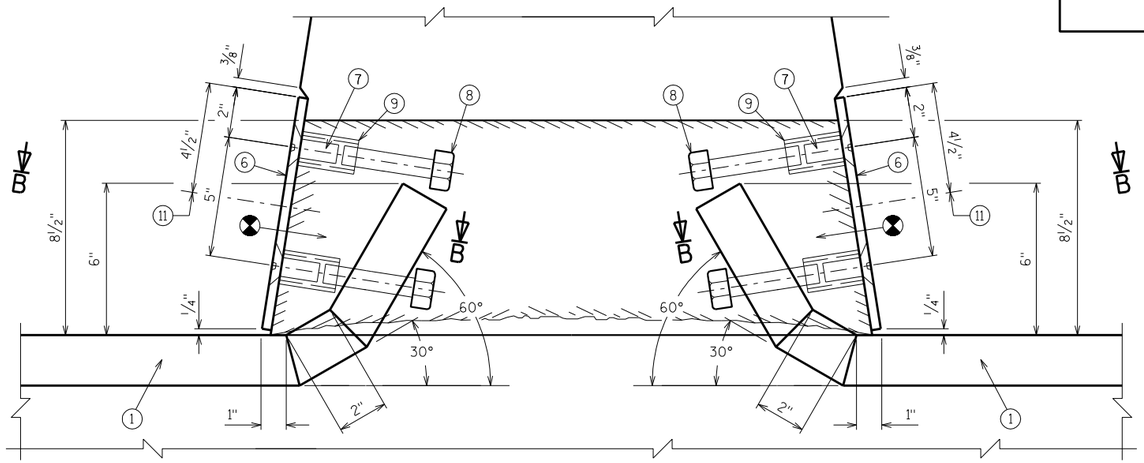
⊠ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

◪ JOINT OPENING DIMENSION ALONG SKEW PLUS ½".



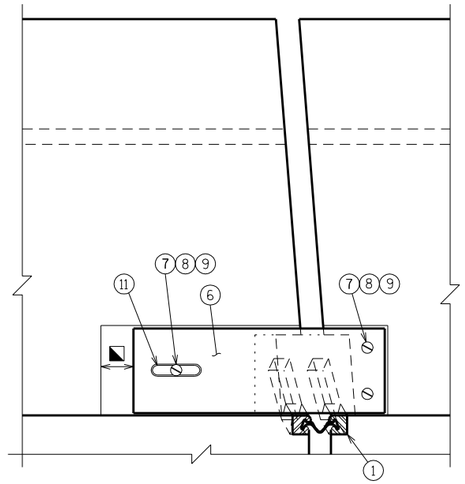
SECTION B-B

* DIMENSION ALONG DIRECTION OF MOVEMENT



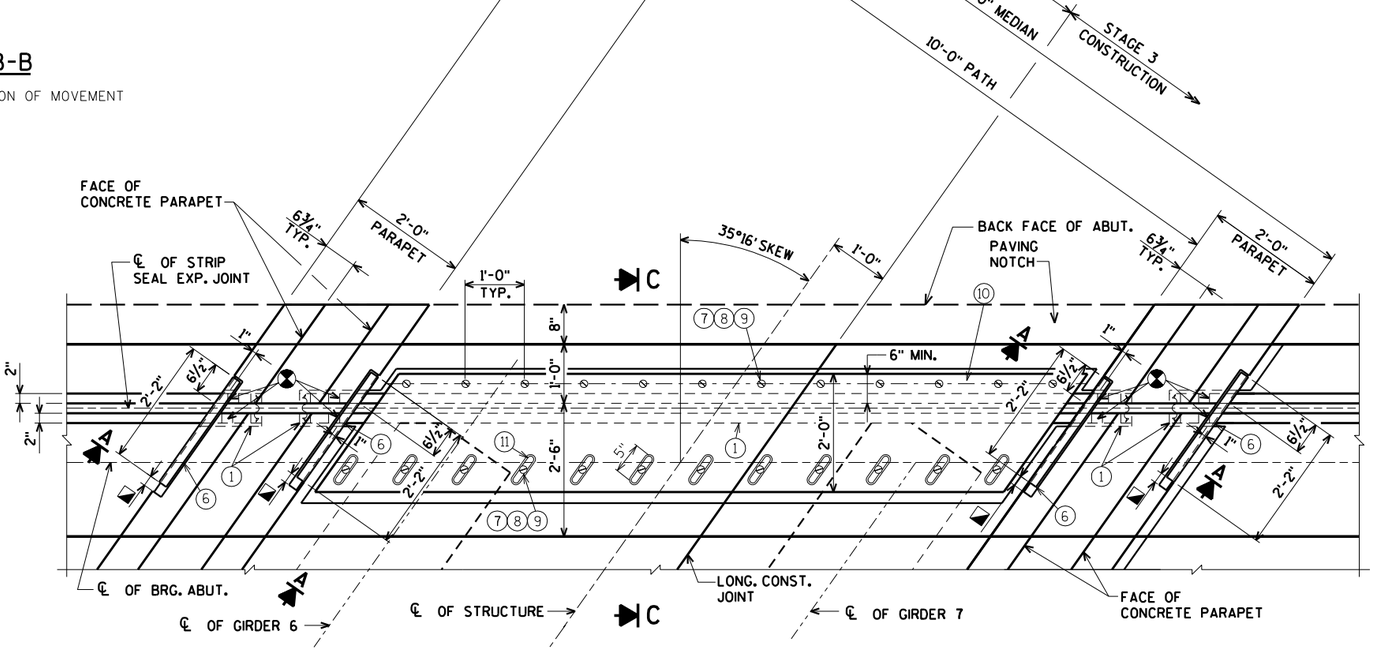
SECTION A-A

TRAFFIC BARRIER



VIEW OF PARAPET PLATES FROM ROADWAY

TRAFFIC BARRIER



PLAN AT PATH

WORK THIS SHEET WITH SHEETS 24, 25, 27

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CJM | PLANS CK'D. AEB

PATH COVER PLATE DETAILS

SHEET 26 OF 29

691

ORIGINAL PLANS PREPARED BY
AYRES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
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8

8

5/5/2021
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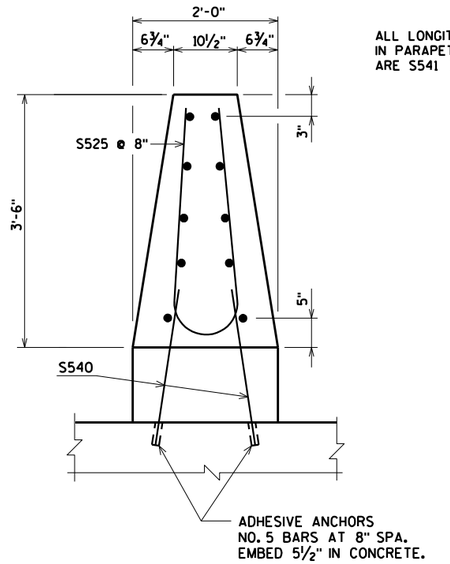
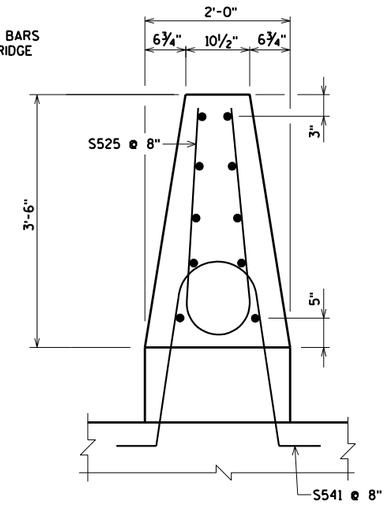
STATE PROJECT NUMBER

1166-06-75

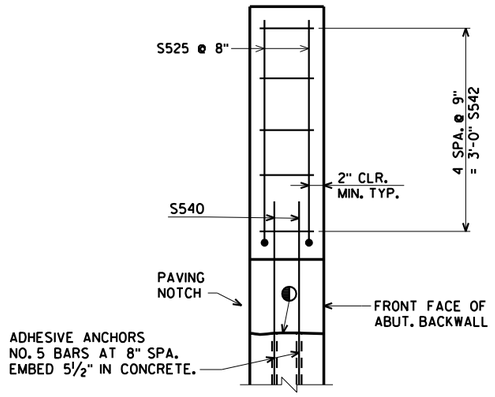


SECTION THRU NORTH INTERIOR
PARAPET ON ABUT. BACKWALL

ALL LONGITUDINAL BARS IN PARAPET ON BRIDGE ARE S541 BARS.

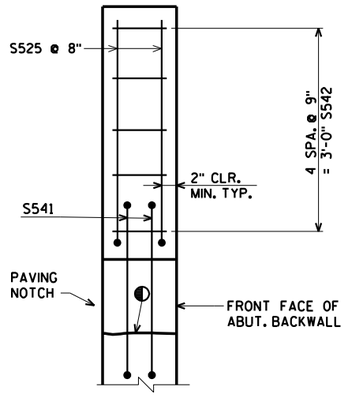


SECTION THRU SOUTH INTERIOR
PARAPET ON ABUT. BACKWALL



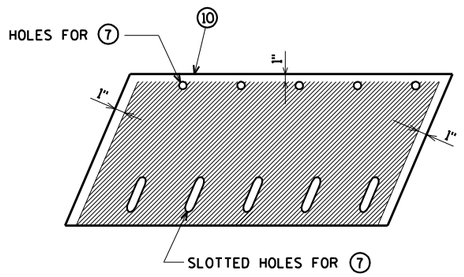
LONGITUDINAL
SECTION THRU NORTH INTERIOR
PARAPET ON ABUT. BACKWALL

◐ CONSTRUCTION JOINT - POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.



LONGITUDINAL
SECTION THRU SOUTH INTERIOR
PARAPET ON ABUT. BACKWALL

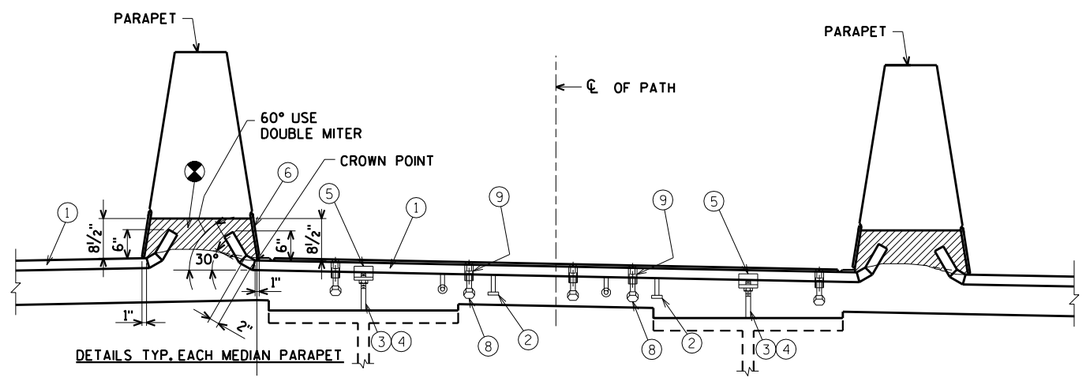
◐ CONSTRUCTION JOINT - POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.



PLAN OF PATH COVER PLATE
WITH SLIP-RESISTANT SURFACE

PLACE SLIP-RESISTANT SURFACE ON TOP WALKING SURFACE IN SHADED AREA ONLY.

APPROVED SLIP-RESISTANT APPLIED SURFACES FOR STEEL PLATES		
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W. S. MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170



SECTION AT PATH

(EAST ABUTMENT SHOWN, WEST ABUTMENT SIMILAR)

WORK THIS SHEET WITH SHEETS 24 - 26

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CJM/CLP | PLANS CK'D. AEB

STRIP SEAL EXPANSION JOINT DETAILS

SHEET 27 OF 29
692

ORIGINAL PLANS PREPARED BY

AYRES
3433 Oakwood Hills Parkway
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5/5/2021
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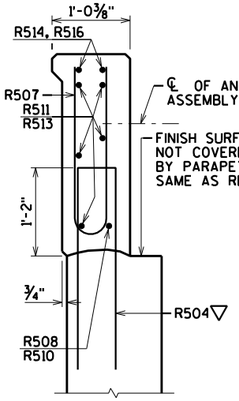
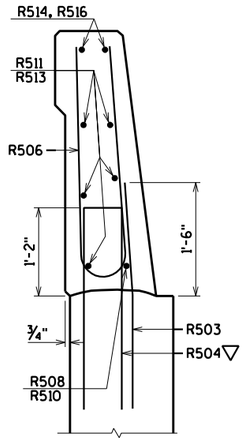
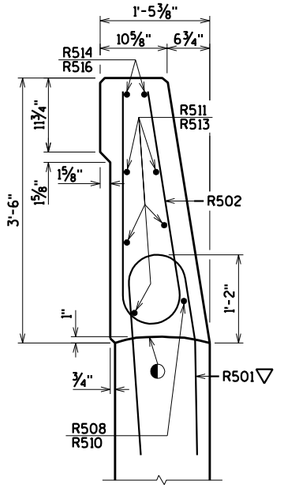


SECTION A-A

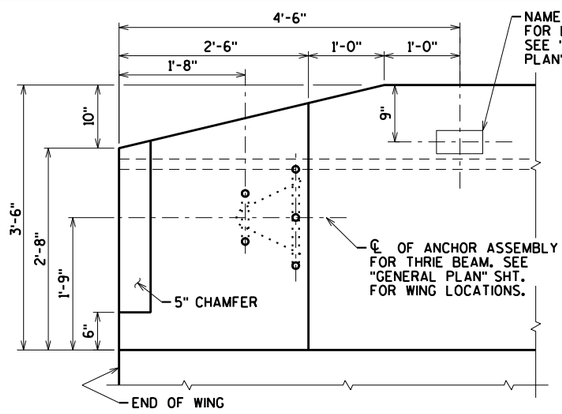


SECTION B-B



SECTION C-C

FOR CONDUIT DETAILS, SEE SHEET 20



PARAPET END TREATMENT DETAIL

LOOKING AT INSIDE FACE OF PARAPET
(WINGS 2 & 4 SHOWN, WINGS 1 & 3 SIMILAR)

BILL OF BARS

FOR ABUTMENT PARAPETS

1,320# COATED WEST ABUTMENT
1,320# COATED EAST ABUTMENT

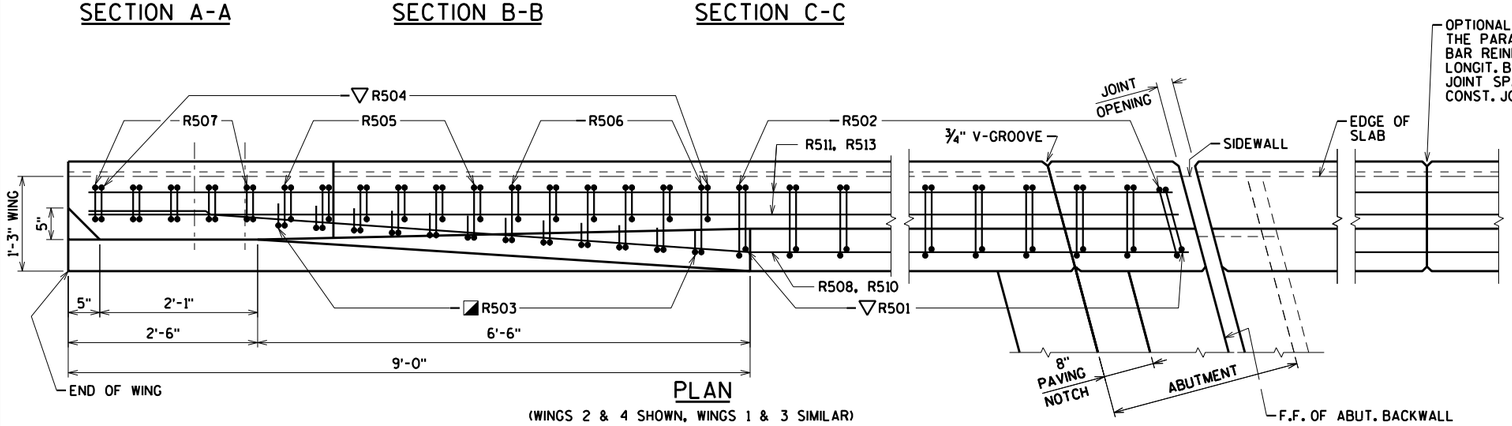
BAR MARK	COAT	WEST ABUT.	EAST ABUT.	LENGTH	BENT	BAR SERIES	LOCATION
R501	X	38	38	5'-10	X		PARAPET VERT.
R502	X	38	38	6'-8"	X		PARAPET VERT.
R503	X	24	24	3'-0"	X		PARAPET VERT.
R504	X	34	34	5'-7"	X		PARAPET VERT.
R505	X	10	10	6'-5"	X		PARAPET VERT.
R506	X	12	12	6'-6"	X		PARAPET VERT.
R507	X	12	12	5'-5"	X	◭	PARAPET VERT.
R508	X	1	1	17'-0"	X		PARAPET HORIZ. WING 1 & 3
R510	X	1	1	23'-4"	X		PARAPET HORIZ. WING 2 & 4
R511	X	5	5	17'-0"	X		PARAPET HORIZ. WING 1 & 3
R513	X	5	5	23'-4"			PARAPET HORIZ. WINGS 2 & 4
R514	X	2	2	17'-1"	X		PARAPET HORIZ. WINGS 1 & 3
R516	X	2	2	23'-5"	X		PARAPET HORIZ. WINGS 2 & 4

BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
R507	4 SERIES OF 6	4'-9" TO 6'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY.

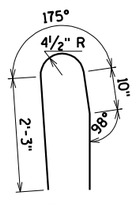
BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



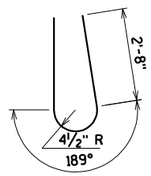
PLAN

(WINGS 2 & 4 SHOWN, WINGS 1 & 3 SIMILAR)

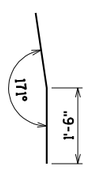
OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A ¾" - 'V' GROOVE.



R501

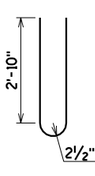


R502

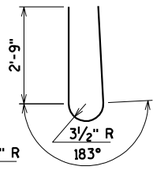


R503

R504



R505



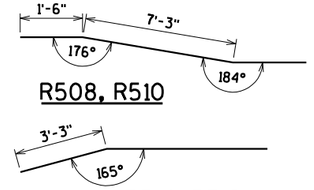
R506

INSIDE ELEVATION

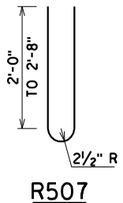
(WINGS 2 & 4 SHOWN, WINGS 1 & 3 SIMILAR)

◩ BENCH MARK CAP (WHEN SUPPLIED). AVOID PLACING A BENCH MARK CAP BELOW A RAIL OR FENCE SYSTEM THAT IS ATTACHED TO THE TOP OF THE PARAPET.

◭ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



R508, R510



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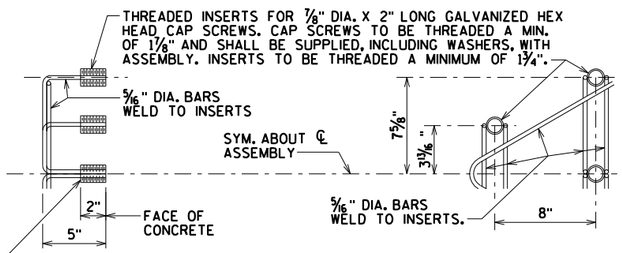

R514, R516

◐ CONST. JOINT - STRIKE OFF AS SHOWN

◩ R503 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R501 AND R504 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.

F.F. DENOTES FRONT FACE

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY	CLP	PLANS CK'D.	AEB

SINGLE SLOPE PARAPET 42SS

SHEET 28 OF 29
693

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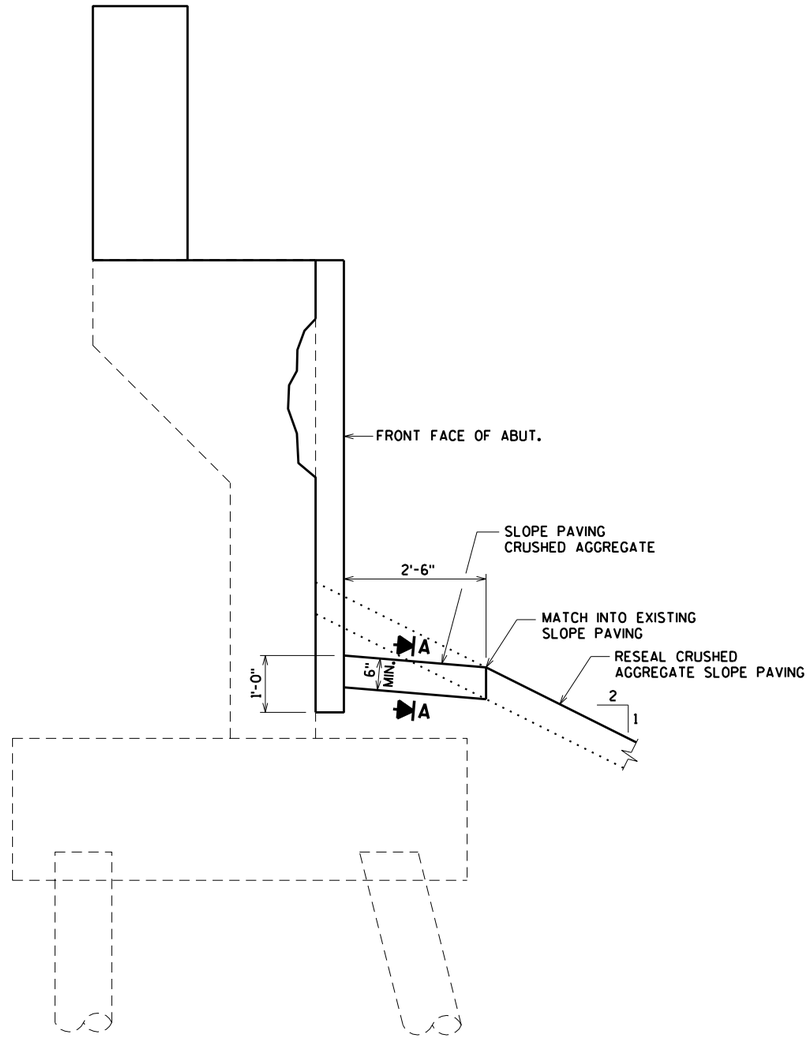
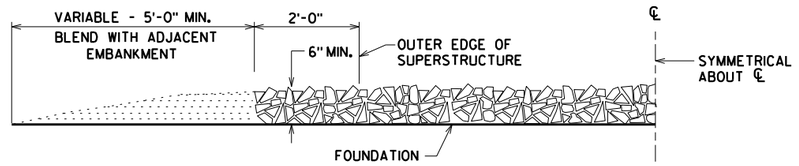


TYPICAL SECTION

ROUND STONE WILL NOT BE ACCEPTED



SECTION A

GENERAL NOTES

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

WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-49-24

DRAWN BY CLP | PLANS CK'D. AEB

SLOPE PAVING CRUSHED AGGREGATE

SHEET 29 OF 29
694

ORIGINAL PLANS PREPARED BY

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4/21/2021

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3/1/2021
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DATE:
DATE:
DATE:

CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

8

DESIGN DATA

CONTRACTOR DESIGNED OVERHEAD SIGN STRUCTURES SHALL BE DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL.

STANDARD FOUNDATIONS DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD: WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD: 3 PSF TO ONE FACE OF SIGN & SURFACE OF MEMBERS.
WIND PRESSURE: 115 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1:	1.00	0.00
LOAD CASE 2:	0.00	1.00
LOAD CASE 3:	0.75	0.75

LOAD COMBINATIONS	
STRENGTH I:	1.25 DC + 1.6 LL
EXTREME I (MAX DC):	1.1 DC + 1.0 W + 1.0 ICE
EXTREME I (MIN DC):	0.9 DC + 1.0 W
SERVICE I:	1.0 DC + 1.0 W
FATIGUE I:	1.0 NWG (NATURAL WIND GUST VIBRATION)
	1.0 TRG (TRUCK INDUCED GUST VIBRATION)
	1.0 GVW (GALLOPING - CANTILEVER ONLY)

MATERIAL PROPERTIES

CONCRETE MASONRY.....f'c = 3,500 psi

HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 psi

HIGH STRENGTH BOLTS - A325.....fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55.....fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

FOUNDATION DATA

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE FOR DESIGN IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE, ACTUAL WATER LEVEL AT SITE MAY VARY. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING DRILLING OF THE SHAFT HOLE TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEM	UNIT	S-49-29	S-49-30
531.2048	DRILLING SHAFT 48-INCH	LF	28	28
531.5340.01	FOUNDATION SINGLE-SHAFT TCIV S-49-29	EA	1	----
531.5340.02	FOUNDATION SINGLE-SHAFT TCIV S-49-30	EA	----	1
532.5340.01	TRUSS CANTILEVER 2-CHORD TYPE IV S-49-29	EA	1	----
532.5340.02	TRUSS CANTILEVER 2-CHORD TYPE IV S-49-30	EA	----	1

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), PORTAGE COUNTY ZONE, NAD 83 (1997). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2007).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE TRUSS OR MONOTUBE BID ITEMS FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-6, A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE CANTILEVER SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON THE SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "DRILLING SHAFT (DIA.)".

STRUCTURE DATA

SIGN STR	ACTUAL SIGN AREA	ACTUAL SIGN DEPTH	STANDARD TYPE
S-49-29	90 SF	7'-6"	TCIV
S-49-30	119 SF	8'-6"	TCIV

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. GENERAL LAYOUT S-49-29
3. GENERAL LAYOUT S-49-30

LIST OF OSS STANDARD DESIGN DRAWINGS

4. I. MONOTUBE & 2-CHORD TRUSS DETAILS 1
5. II. MONOTUBE & 2-CHORD TRUSS DETAILS 2
6. III. MONOTUBE & 2-CHORD TRUSS STANDARD ELECTRICAL DETAILS
7. IV. MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

STATE PROJECT NUMBER

6290-09-70

TRAFFIC VOLUME

A.D.T. (2042) = 27,050
R.D.S. = 45 MPH

THESE ARE STANDARD DESIGN PLANS, DEVELOPED AND MAINTAINED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION. THE DESIGNER CERTIFIES THAT THE DESIGN AND PLAN DETAILS CHOSEN ARE CONSISTENT WITH THE GUIDANCE PROVIDED IN THE CURRENT WISCONSIN BRIDGE MANUAL CHAPTER 39.

WISCONSIN DANIEL N. SYDOW E-38363 WI PROFESSIONAL ENGINEER

03/02/2021

STRUCTURE DESIGN CONTACTS:

AARON BONK (608) 261-0261
DAN SYDOW (715) 834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED NK 06/24/21
CHIEF STRUCTURES DESIGN ENGINEER DATE

MONTOTUBE & AND 2-CHORD TRUSS PLANS

USH 10

COUNTY	CITY
PORTAGE	STEVENS POINT

DESIGN SPEC.
AASHTO LRFDLTS-1W/INTERIMS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
BOS	BOS	CJM	DNS

GENERAL NOTES & DESIGN DATA

SHEET 1 OF 7
695

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STATE PROJECT NUMBER

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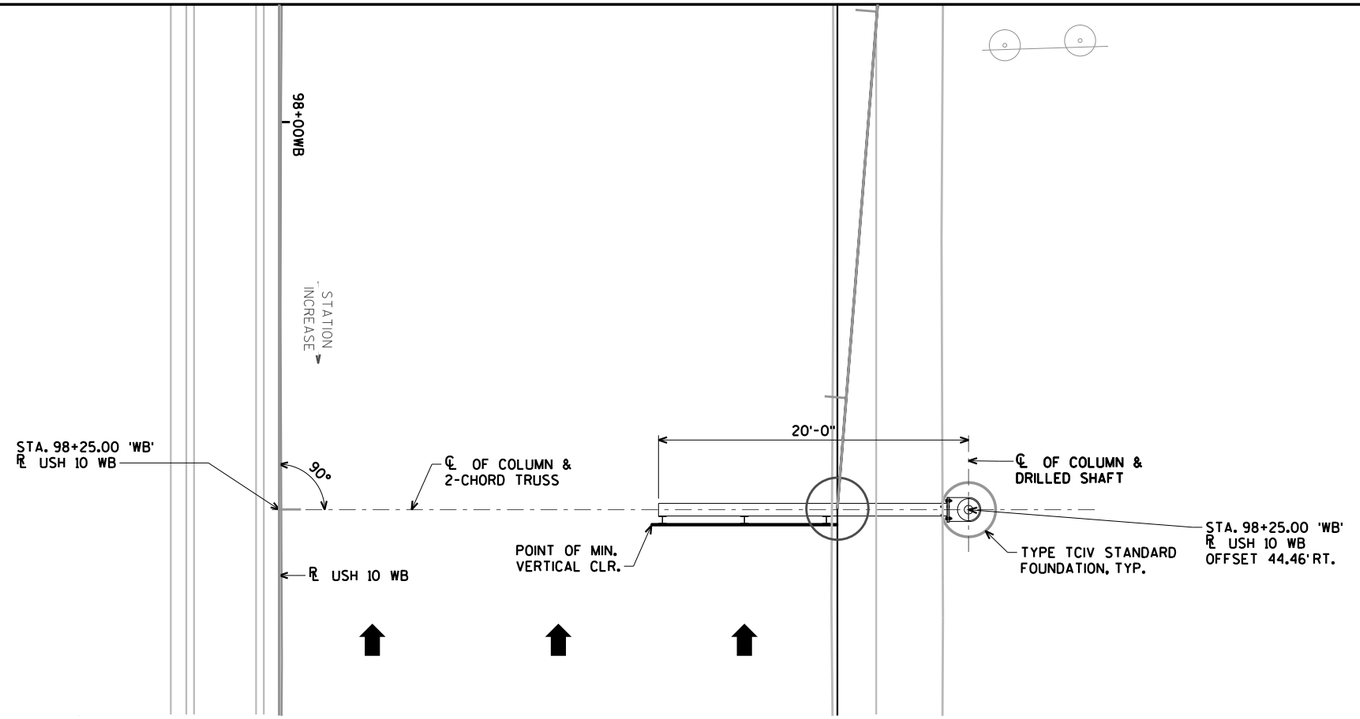
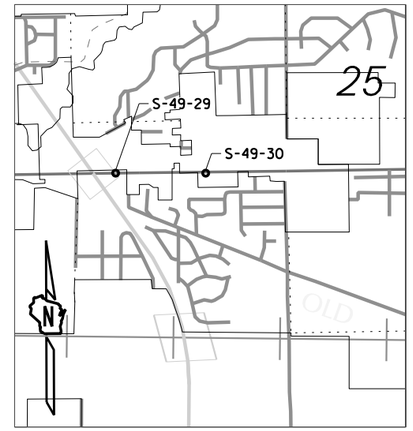


PLAN



LOCATION MAP

NOTE

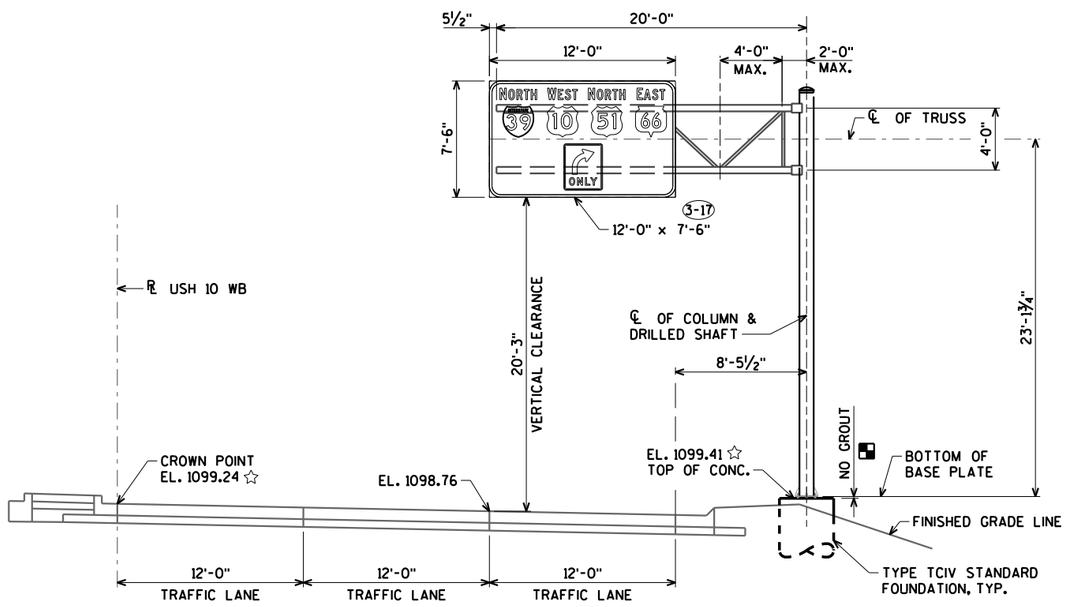
POINT OF MIN VERTICAL CLEARANCE
STA 98+25.00 'WB', 24' LEFT
EL 1099.24

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ 2-CHORD TRUSS

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

■ STANDOFF DIMENSION IS ASSUMED TO BE 2½". BUT IS A MAXIMUM OF 2 X ANCHOR DIMENSION. SEE FOUNDATION DETAILS SHEET AND SHOP DRAWINGS FOR MORE INFORMATION.



ELEVATION

STA. 98+25.00 'WB'
LOOKING DOWNSTATION FRONT OF SIGN

ORIGINAL PLANS PREPARED BY

AYRES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE S-49-29

DRAWN BY CJM | PLANS CK'D. JLB

GENERAL LAYOUT
S-49-29

SHEET 2 OF 7
696

I.D.

DATE:

8

C:±Users±marcumc±Desktop±S-49-29_gp.dgn

3/1/2021
PENTABLE:BReau_shd_util.tbl

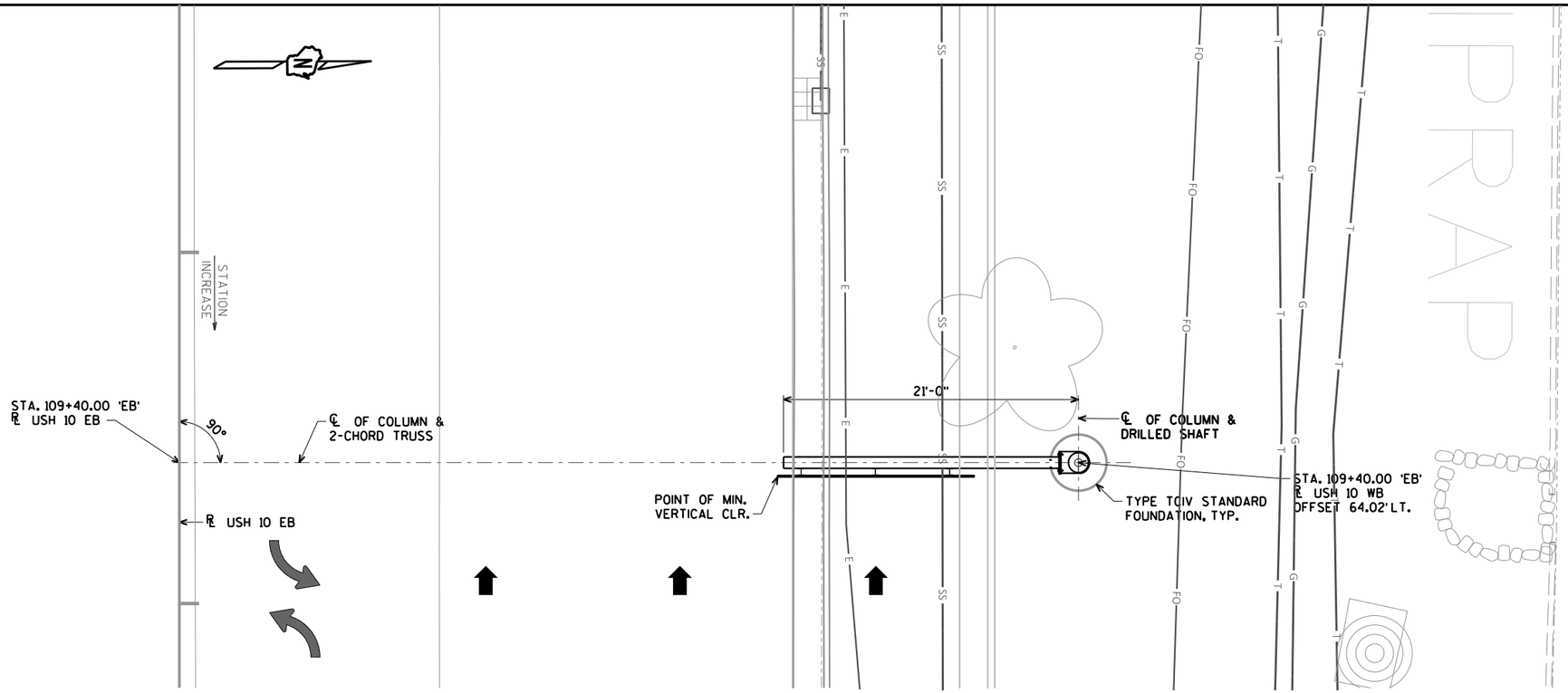
DATE:
DATE:
DATE:

CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

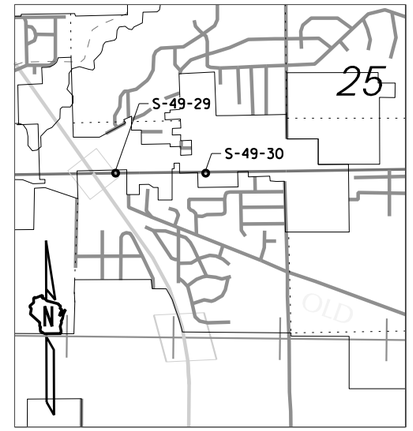
8

STATE PROJECT NUMBER

6290-09-70



PLAN



LOCATION MAP

NOTE

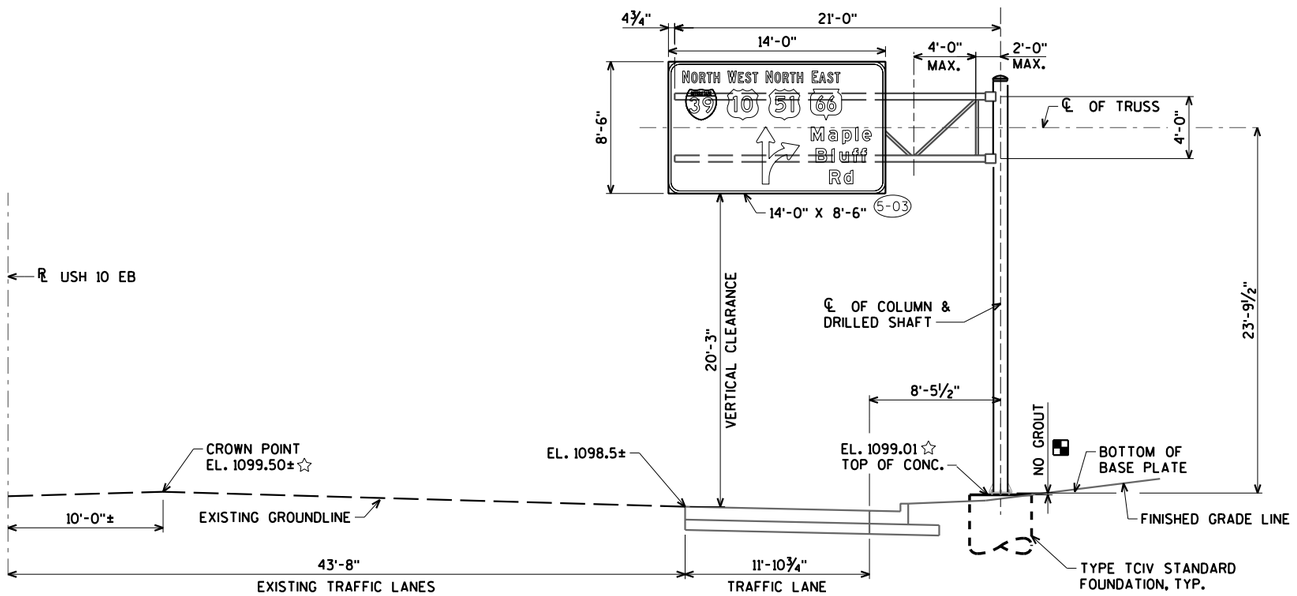
POINT OF MIN VERTICAL CLEARANCE
STA 109+40.00 'EB', 42.62' LEFT
EL 1099.50±

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ 2-CHORD TRUSS

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

■ STANDOFF DIMENSION IS ASSUMED TO BE 2½". BUT IS A MAXIMUM OF 2 X ANCHOR DIMENSION. SEE FOUNDATION DETAILS SHEET AND SHOP DRAWINGS FOR MORE INFORMATION.



ELEVATION

STA. 109+40.00 'EB'
LOOKING DOWNSTATION FRONT OF SIGN

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE S-49-30

DRAWN BY CJM | PLANS CK'D. JLB

GENERAL LAYOUT
S-49-30

SHEET 3 OF 7
697

ORIGINAL PLANS PREPARED BY

AYRES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

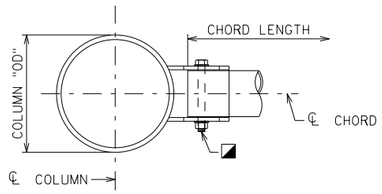
I.D.

DATE:

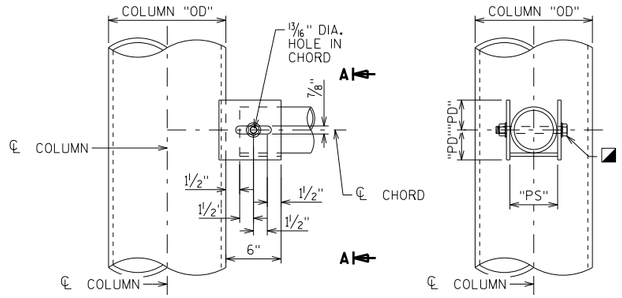
C:±Users±marcumc±Desktop±S-49-30_gp.dgn

STATE PROJECT NUMBER

STANDARD



PLAN



ELEVATION SECTION A-A

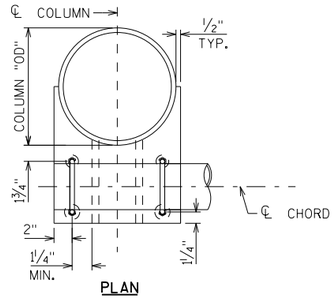
FULL SPAN SADDLE CONNECTION

PREFERRED

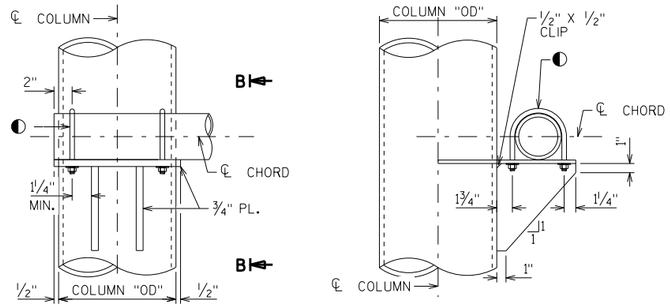
3/4" GALVANIZED A325 OR A449 HEAVY HEX BOLT, NUT, WASHER

"PD" = (CHORD "OD")/2 + 3/4"

"PS" = CHORD "OD" + 3/16"



PLAN

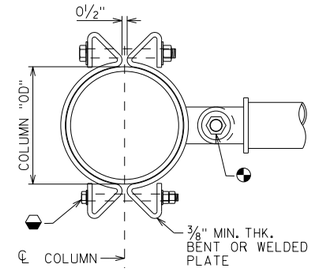


ELEVATION SECTION B-B

FULL SPAN STIFFENED BEARING CONNECTION

ALTERNATE 1

◐ (2) - 1/2" MIN. GALVANIZED U-BOLT, NUT, WASHER AND LOCK WASHER



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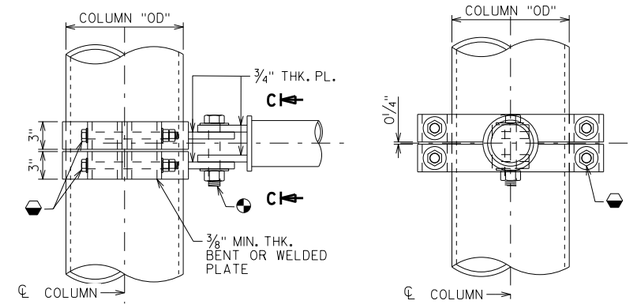


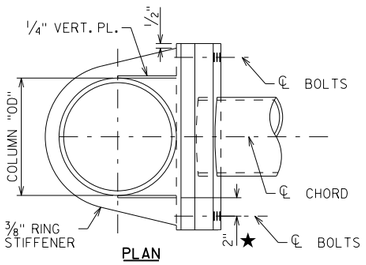
ELEVATION SECTION C-C

FULL SPAN CLAMP CONNECTION

ALTERNATE 2 - TAPERED COLUMNS ONLY

1 1/4" GALVANIZED A325 HEAVY HEX BOLT, NUT AND WASHER

1" GALVANIZED A449 HEAVY HEX BOLT, NUT AND WASHER



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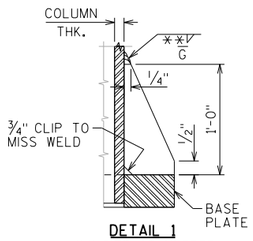
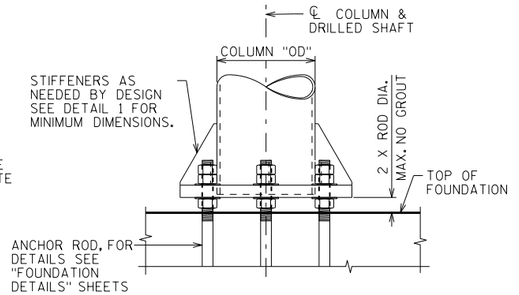


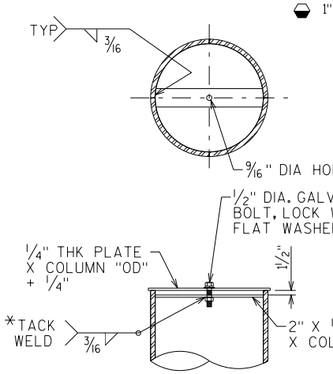
DETAIL 1

** SIZE AS NEEDED



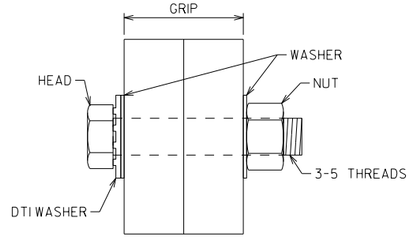
BASE PLATE & COLUMN DETAIL

LOOKING AT FRONT FACE OF STRUCTURE



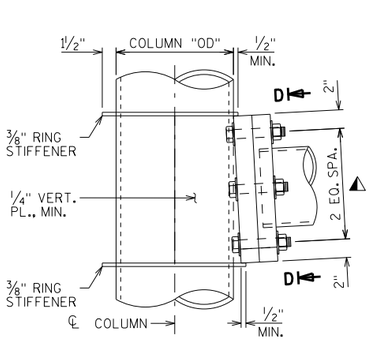
COLUMN/CHORD CAP DETAIL

* PLACE TACK EVERY OTHER FLAT TO SECURE NUT OR USE 1/2" THICK PLATE AND TAP HOLE FOR BOLT THREADS

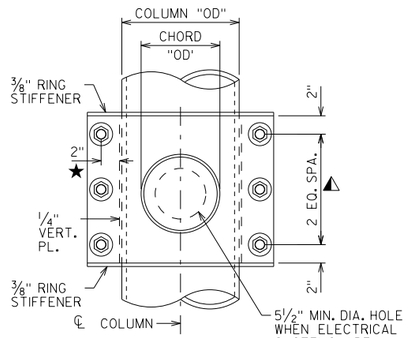


RECOMMENDED BOLT DETAIL WITH DTI

NUT IS THE TURNED ELEMENT



ELEVATION

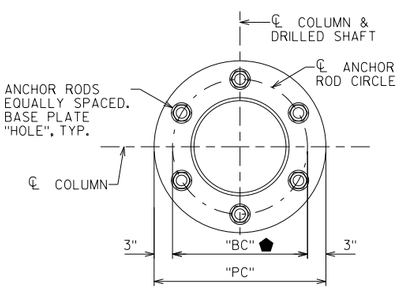


SECTION D-D

CANTILEVER POST TO CHORD CONNECTION

◭ MIN. CONNECTION = (6) - 1" GALVANIZED F3125 GRADE A325 BOLTS, NUT, WASHER AND DTI

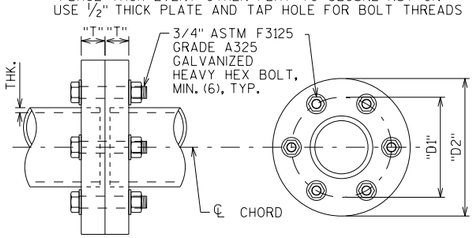
★ MIN. DIMENSION MEASURED FROM EXT. FACE OF VERT. PLATE



BASE PLATE

PLAN

⬟ "BC" = POLE OD + 6"



CHORD SPLICE DETAIL

"D1" = CHORD "OD" + 3"

"D2" = CHORD "OD" + 6"

"T" = BY DESIGN

NOTES:

MINIMUM VALUES SHOWN

ALL CONNETIONS ARE TO BE DESIGNED FOR ACTUAL STRUCTURE LOADS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: DEC. 2020

DRAWN BY BOS | PLANS CK'D. BOS

MONOTUBE & 2-CHORD TRUSS DETAILS 1

SHEET 1 OF IV

698

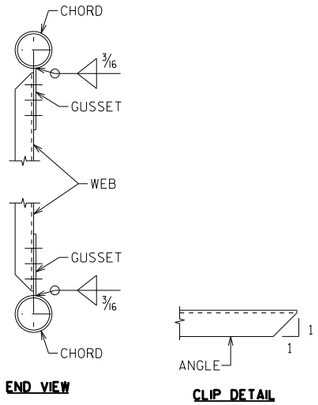
8

8

SCALE = 1.00

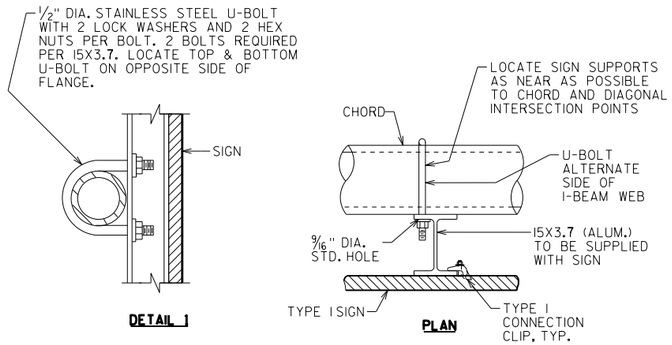
STATE PROJECT NUMBER

STANDARD



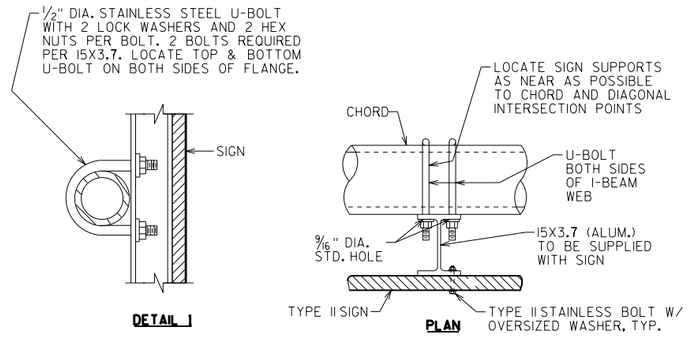
TRUSS CONNECTION DETAILS

BOLTED CONNECTIONS SHOWN, NUMBER OF BOLTS BY DESIGN
WELDED CONNECTIONS SIMILAR



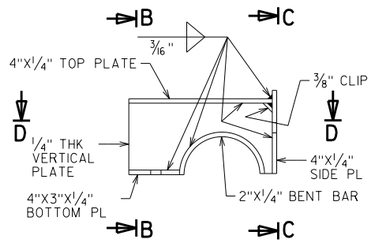
2-CHORD TRUSS SIGN CONNECTION

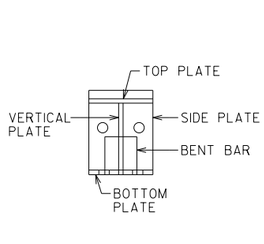
SEE SIGN PLATE MANUAL A4-7A FOR DETAILS

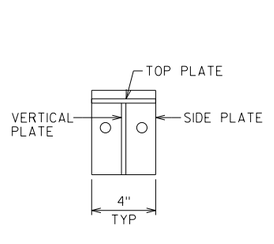


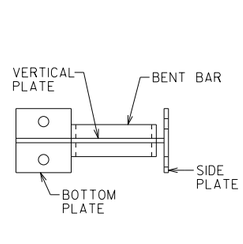
MONOTUBE SIGN CONNECTION

SEE SIGN PLATE MANUAL A4-7B FOR DETAILS



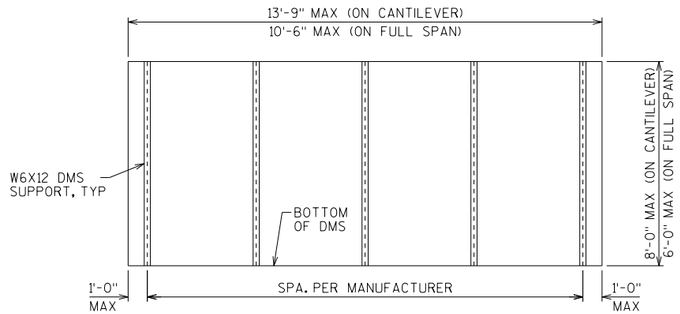






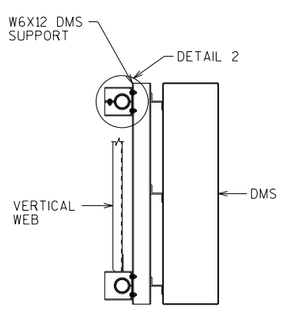
DMS WELDED PLATE CONNECTION DETAILS

TOP PLATE CLAMP SHOWN
BOTTOM PLATE CLAMP SIMILIAR



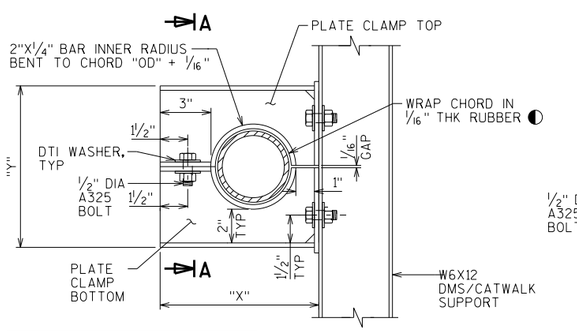
DMS MOUNTING POST SPACING DETAIL

POST SPACING MAY BE ADJUSTED AS REQUIRED IF CONFLICT WITH TRUSS IS ENCOUNTERED.

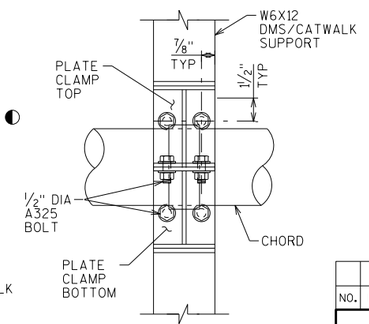


SECTION THRU TRUSS

FOR DMS CONNECTION

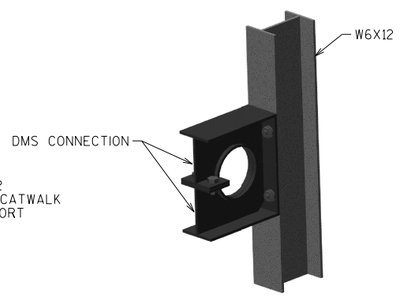


CHORD OUTER DIA	"X"	"Y"
"OD"	"OD"+4 13/16"	"OD"+5 1/16"



TYPICAL DMS CONNECTION

◐ NEOPRENE, GRADE 45±5, OTHERWISE MEETING THE REQUIREMENTS OF STD SPEC 506.2.6.1



3-D VIEW DMS CONNECTION

CHORD NOT SHOWN FOR CLARITY

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: DEC. 2020

DRAWN BY: BOS | PLANS CK'D.: BOS

MONOTUBE & 2-CHORD TRUSS DETAILS 2

SHEET 11 OF IV

699

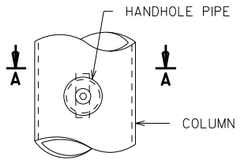
SCALE = 2.00

8

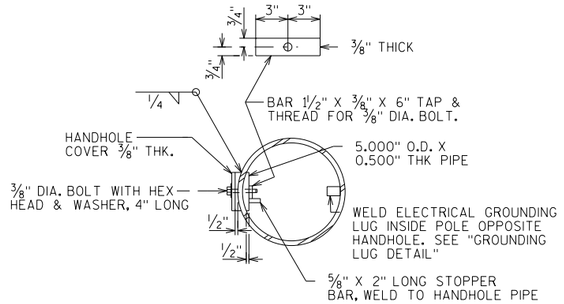
8

STATE PROJECT NUMBER

STANDARD



HANDHOLE DETAILS

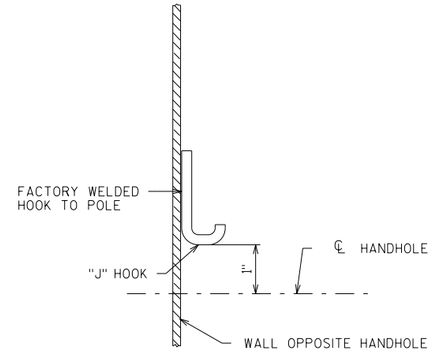


SECTION A-A

HANDHOLE NOTES

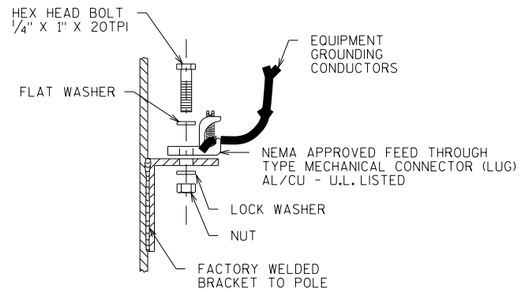
HANDHOLES SHALL BE LOCATED IN ONE COLUMN OF THE SIGN STRUCTURE IF ELECTRICALLY OPERATED DEVICES ARE INSTALLED ON/IN THE STRUCTURE. COLUMNS WITH HANDHOLES SHALL BE NEAR THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE WITH THE REGION TRAFFIC SECTION PRIOR TO FABRICATION OF THE SIGN COLUMNS AND MEMBERS. CONDUIT (AS REQ'D.) SHALL BE LOCATED, PLACED AND SIZED AS SHOWN ON THE ELECTRICAL PLAN DETAIL SHEETS.

UNLESS NOTED OTHERWISE, ALL HANDHOLE ELEMENTS TO BE GALVANIZED PER THE WISDOT STANDARD SPECIFICATIONS.



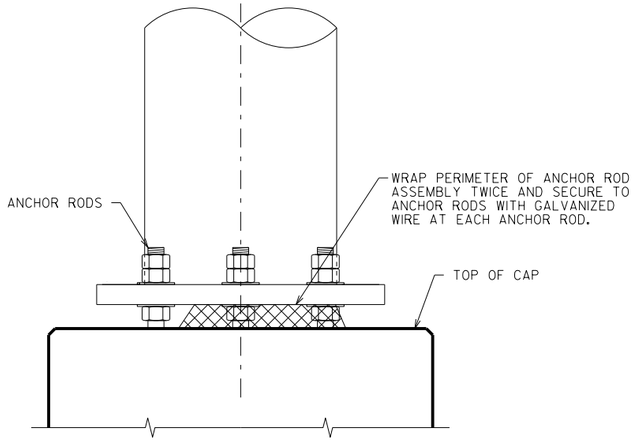
TYPICAL "J" HOOK LOCATION

THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF ALL COLUMNS CONTAINING ELECTRICAL WIRING. THE "J" HOOK SHALL BE ATTACHED ABOVE THE CENTERLINE OF THE UPPER HANDHOLE AND MOUNTED DIRECTLY OPPOSITE THE HANDHOLE AS SHOWN IN THE DRAWING.



GROUNDING LUG DETAIL

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



RODENT SCREEN

(ONLY REQ'D. WHEN ELECTRICAL DEVICES ARE INSTALLED)

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: DEC. 2020

DRAWN BY BOS | PLANS CK'D. BOS

MONOTUBE & 2-CHORD TRUSS ELECTRICAL DETAILS

SHEET III OF IV

700

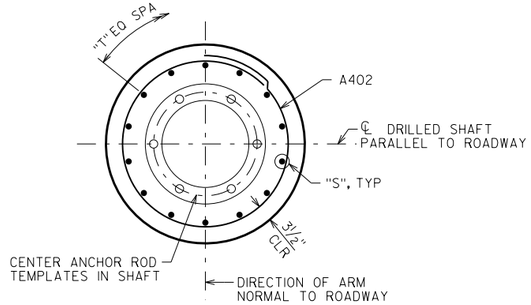
SCALE = 1.00

STATE PROJECT NUMBER

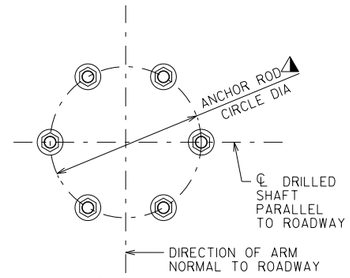
STANDARD

FOUNDATION & REINFORCING DATA

STANDARD FOUNDATION TYPE	SHAFT VARIABLES					
	"D"	"L"	"R"	"S"	"T"	"BC" MAX
MFI	2'-0"	12'-0"	12	A801	6	12"
MFII	2'-6"	13'-0"	13	A801	10	17"
MCI/MCII/TFI	2'-6"	17'-0"	17	A801	10	17"
TCI	3'-0"	18'-0"	18	A801	14	22"
TFII	3'-0"	20'-0"	20	A801	14	22"
MCIII/TCII/TFIII	3'-6"	18'-0"	18	A901	14	28"
MCIV/TFIV	3'-6"	23'-0"	23	A901	14	28"
TCIII	4'-0"	23'-0"	23	A1001	14	34"
TCIV	4'-0"	28'-0"	28	A1001	14	34"



PLAN



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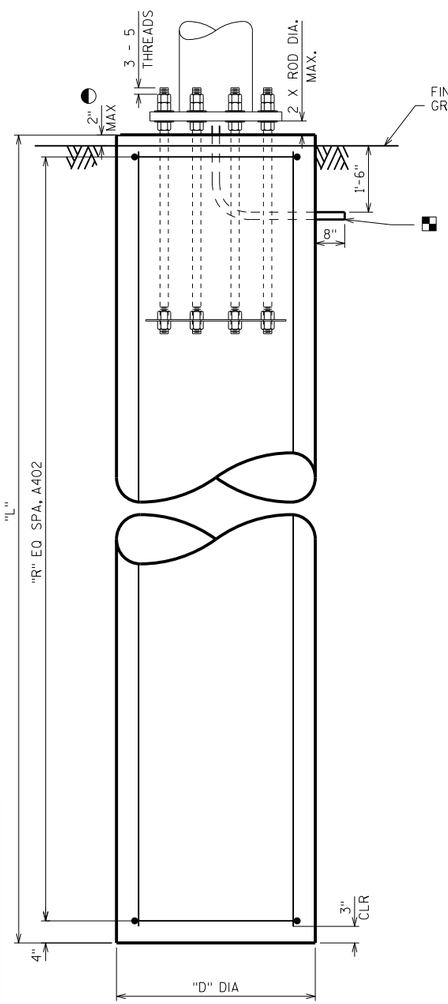
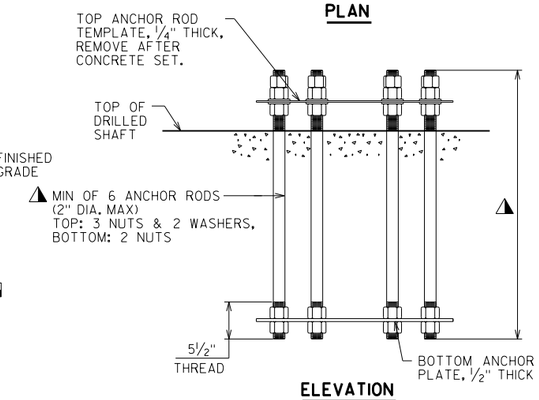


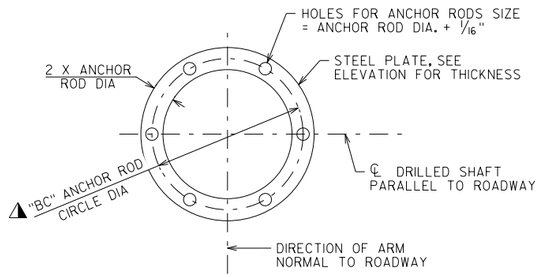
ELEVATION



ELEVATION

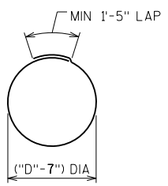
ANCHOR ROD ASSEMBLY DETAILS

⚠ ANCHOR ROD NUMBER, DIAMETER, LENGTH & ORIENTATION AS SHOWN ON FABRICATION DRAWING.



ANCHOR PLATE/TOP TEMPLATE

PLAN



A402

NOTE:
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BILL OF BARS - STANDARD FOUNDATIONS

STANDARD FOUNDATION MFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		6	11'-7"			DRILLED SHAFT - VERTICAL
A402		13	5'-10"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	12'-7"			DRILLED SHAFT - VERTICAL
A402		14	7'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCI/MCII/TFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	16'-7"			DRILLED SHAFT - VERTICAL
A402		18	7'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	17'-7"			DRILLED SHAFT - VERTICAL
A402		19	9'-0"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	19'-7"			DRILLED SHAFT - VERTICAL
A402		21	9'-0"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCIII/TCII/TFIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	17'-7"			DRILLED SHAFT - VERTICAL
A402		19	10'-6"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCIV/TFIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	22'-7"			DRILLED SHAFT - VERTICAL
A402		24	10'-6"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	22'-7"			DRILLED SHAFT - VERTICAL
A402		24	12'-2"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	27'-7"			DRILLED SHAFT - VERTICAL
A402		29	12'-2"	X		DRILLED SHAFT - HORIZONTAL

ESTIMATED QUANTITIES - FOUNDATIONS

STANDARD FOUNDATION TYPE	CONCRETE MASONRY (CY)	STEEL REINFORCEMENT HS (LBS)	FOUNDATION DRILLING (LF)				
			24" DIA.	30" DIA.	36" DIA.	42" DIA.	48" DIA.
MFI	2	240	12				
MFII	3	410		13			
MCI/MCII/TFI	4	540		17			
TCI	5	780			18		
TFII	6	860			20		
MCIII/TCII/TFIII	7	970				18	
MCIV/TFIV	9	1,250				23	
TCIII	11	1,560					23
TCIV	13	1,900					28

✳✳ QUANTITIES ARE FOR INFORMATION ONLY AND ARE BASED ON STANDARD STRUCTURE DIMENSIONS

NOTES

CENTER ANCHOR ROD ASSEMBLY ON DRILLED SHAFT AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

◐ FOR OVERHEAD SIGN STRUCTURES THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE SHAFT SHALL BE POURED FLUSH WITH THE FINISHED GRADE.

◪ 2" DIA NONMETALLIC CONDUITS, INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP OR SEAL EACH END WITH A SUITABLE REMOVABLE PLUG. PLACE CONDUITS UNDER COLUMN ADJACENT TO THE DMS. CONDUITS INCIDENTAL TO THE FOUNDATION BID ITEMS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: DEC. 2020

DRAWN BY BOS | PLANS CK'D. BOS

MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

SHEET IV OF IV

701

SCALE = 1.67

8

8

USH 10 EB

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
85+50	0.00	0.00	9.38	0.00	0	0	0	0	0	0
86+00	50.00	67.90	30.15	25.02	63	37	23	63	29	-3
86+50	50.00	82.53	30.53	94.39	139	56	111	202	168	-59
87+00	50.00	30.10	21.38	0.00	104	48	87	306	276	-111
87+50	50.00	30.30	1.58	0.00	56	21	0	362	276	-76
88+00	50.00	32.00	21.38	0.00	58	21	0	420	276	-39
88+50	50.00	14.50	3.75	7.30	43	23	7	463	285	-28
89+00	50.00	17.40	2.25	16.50	30	6	22	493	313	-32
89+12.315	12.32	16.90	2.48	30.20	8	1	11	501	326	-38
89+36.876	24.56	17.00	2.63	28.00	15	2	26	516	359	-58
89+50	13.12	18.60	3.19	31.40	9	1	14	525	376	-67
89+61.778	11.78	14.50	3.30	36.90	7	1	15	532	395	-80
90+00	38.22	13.80	3.53	1.40	20	5	27	552	429	-99
93+04.696	304.70	0.00	3.19	11.20	78	38	71	630	518	-148
93+50	45.30	11.10	1.88	2.60	9	4	12	639	533	-158
93+91.236	41.24	15.20	1.88	2.10	20	3	4	659	538	-146
94+00	8.76	15.90	1.88	5.00	5	1	1	664	539	-143
94+16.024	16.02	16.40	1.88	10.50	10	1	5	674	545	-140
94+50	33.98	13.50	1.88	42.10	19	2	33	693	586	-164
94+60.848	10.85	16.20	1.88	39.20	6	1	16	699	606	-179
95+00	39.15	15.60	1.88	38.50	23	3	56	722	676	-229
95+28.952	28.95	19.20	1.88	10.00	19	2	26	741	709	-245
95+50	21.05	14.70	1.88	0.70	13	1	4	754	714	-238
96+25	75.00	15.60	0.00	16.50	42	3	24	796	744	-229
96+50	25.00	0.00	0.00	69.30	7	0	40	803	794	-272
97+00	50.00	0.00	0.00	81.10	0	0	139	803	968	-446

USH 10 WB

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUS			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/ UNUSABLE PAVEMENT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
85+50	0.00	24.50	9.38	3.50	0	0	0	0	0	0
86+00	50.00	69.30	23.18	4.90	87	30	8	87	10	47
86+50	50.00	6.00	2.63	13.50	70	24	17	157	31	72
87+00	50.00	14.70	9.75	16.80	19	11	28	176	66	45
87+50	50.00	0.00	0.00	30.50	14	9	44	190	121	-5
88+00	50.00	11.89	0.00	30.70	11	0	57	201	193	-66
88+50	50.00	11.66	0.00	55.50	22	0	80	223	293	-144
89+00	50.00	7.81	0.00	32.40	18	0	81	241	394	-227
89+50	50.00	2.87	0.00	9.00	10	0	38	251	441	-264
90+00	50.00	1.87	0.00	0.00	4	0	8	255	451	-270
92+50	250.00	1.80	0.00	27.50	17	0	127	272	610	-412
93+00	50.00	1.63	0.00	72.80	3	0	93	275	726	-525
93+30.16	30.16	2.08	0.00	77.10	2	0	84	277	831	-628
93+50	19.84	4.56	0.00	90.00	2	0	61	279	908	-703
93+54.995	4.99	4.07	0.00	97.10	1	0	17	280	929	-723
93+79.83	24.84	8.39	0.00	138.40	6	0	108	286	1,064	-852
94+00	20.17	10.53	0.00	134.60	7	0	102	293	1,191	-972
94+50	50.00	20.70	3.68	193.20	29	3	304	322	1,571	-1,326
95+50	100.00	2.20	1.88	0.00	42	10	358	364	2,019	-1,742
96+00	50.00	6.70	2.10	0.00	8	4	0	372	2,019	-1,738
96+50	50.00	16.70	3.23	0.00	22	5	0	394	2,019	-1,721
97+00	50.00	109.80	34.88	106.29	117	35	98	511	2,141	-1,761

ZC

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
293+50	0.00	0.00	0.00	0.00	0	0	0	0	0	0
294+00	50.00	66.78	23.57	27.10	62	22	25	62	31	9
294+50	50.00	101.85	39.61	38.80	156	59	61	218	108	30

ZD

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
270+75	0.00	97.79	56.24	8.00	0	0	0	0	0	0
271+00	25.00	78.92	45.07	2.80	82	47	5	82	6	29
271+50	50.00	67.92	42.18	17.61	136	81	19	218	30	60
272+00	50.00	0.00	0.00	0.00	63	39	16	281	50	64

ZZ

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
285+00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
285+50	50.00	3.38	1.45	0.38	3	1	0	3	0	2
285+75	25.00	3.67	1.45	0.08	3	1	0	6	0	4
286+00	25.00	3.54	1.45	2.26	3	1	1	9	1	5
286+36.448	36.45	83.35	15.38	20.93	59	11	16	68	21	33
286+45	8.55	52.30	15.75	49.83	21	5	11	89	35	35

NOTE 1: CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
NOTE 2: SALVAGED/UNUSABLE PAVEMENT MATERIAL DOES NOT SHOW UP IN CROSS SECTIONS
NOTE 3: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL

USH 10 EB

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
97+00	0.00	0.00	0.00	81.10	0	0	0	0	0	0
97+50	50.00	62.20	9.75	54.52	58	9	126	58	158	-109
98+00	50.00	61.55	9.75	36.64	115	18	84	173	263	-117
98+50	50.00	61.43	9.75	30.00	114	18	62	287	340	-98
99+00	50.00	60.06	9.75	18.96	112	18	45	399	396	-60
99+25	25.00	0.89	0.00	1.69	28	5	10	427	409	-50
100+75	150.00	86.02	5.16	0.41	241	14	6	668	416	170
101+00	25.00	80.90	2.08	0.42	77	3	0	745	416	244
101+50	50.00	92.31	2.08	0.37	160	4	1	905	418	399
102+00	50.00	100.29	2.08	0.28	178	4	1	1,083	419	571
102+50	50.00	89.58	2.08	0.33	176	4	1	1,259	420	742
103+00	50.00	59.48	2.08	0.05	138	4	0	1,397	420	876
103+50	50.00	16.15	2.08	0.03	70	4	0	1,467	420	942
103+75	25.00	0.00	0.00	0.00	7	1	0	1,474	420	948
106+60	285.00	0.00	0.00	0.00	0	0	0	1,474	420	948
107+00	40.00	32.93	7.88	0.00	24	6	0	1,498	420	966
107+50	50.00	44.27	3.15	0.00	71	10	0	1,569	420	1,027
108+00	50.00	46.13	2.08	0.00	84	5	0	1,653	420	1,106
108+50	50.00	53.57	2.08	0.00	92	4	0	1,745	420	1,194
109+00	50.00	49.50	2.08	0.00	95	4	0	1,840	420	1,285
109+50	50.00	45.07	2.08	0.00	88	4	0	1,928	420	1,369
110+00	50.00	46.95	2.08	0.00	85	4	0	2,013	420	1,450
110+50	50.00	35.96	2.08	0.00	77	4	0	2,090	420	1,523
111+00	50.00	29.00	2.08	0.00	60	4	0	2,150	420	1,579
111+50	50.00	19.35	2.08	0.00	45	4	0	2,195	420	1,620
112+00	50.00	10.50	2.08	0.04	28	4	0	2,223	420	1,644
112+25	25.00	0.00	0.00	0.00	5	1	0	2,228	420	1,648

ZA

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
283+25	0.00	64.55	22.50	40.22	0	0	0	0	0	0
283+50	25.00	50.83	19.35	33.13	53	19	34	53	43	-9
284+00	50.00	37.60	12.38	29.90	82	29	58	135	115	-28
284+50	50.00	47.10	12.38	86.10	78	23	107	213	249	-107
285+00	50.00	51.97	12.38	59.09	92	23	134	305	416	-205
285+04.072	4.07	52.40	12.38	61.02	8	2	9	313	428	-211
285+29.073	25.00	54.00	12.38	44.73	49	11	49	362	489	-234
285+50	20.93	53.45	12.38	27.93	42	10	28	404	524	-237
285+53.754	3.75	53.59	12.38	20.45	7	2	3	411	528	-236
286+00	46.25	53.94	12.38	6.81	92	21	23	503	556	-193
286+50	50.00	52.25	12.38	3.01	98	23	9	601	568	-130
287+00	50.00	58.66	12.38	0.06	103	23	3	704	571	-53
287+50	50.00	58.25	12.38	0.00	108	23	0	812	571	32
288+00	50.00	56.43	12.38	0.00	106	23	0	918	571	115
288+50	50.00	51.77	12.38	0.00	100	23	0	1,018	571	192
289+00	50.00	47.80	12.38	0.12	92	23	0	1,110	571	261
289+50	50.00	46.14	12.38	0.95	87	23	1	1,197	573	324
290+00	50.00	5.55		0.00	48	23	1	1,245	574	347

USH 10 WB

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
97+00	0.00	109.80	34.88	106.29	0	0	0	0	0	0
97+50	50.00	113.34	38.25	78.85	207	68	171	207	214	-75
98+00	50.00	109.31	38.25	51.60	206	71	121	413	365	-91
98+50	50.00	105.81	38.25	26.79	199	71	73	612	456	-54
99+00	50.00	105.83	38.25	12.42	196	71	36	808	501	26
99+50	50.00	87.72	42.15	0.22	179	74	12	987	516	116

ZB

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
298+00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
298+50	50.00	21.50	0.00	0.00	20	0	0	20	0	20
299+00	50.00	0.00	0.00	1.29	20	0	1	40	1	39
299+50	50.00	0.00	0.00	6.19	0	0	7	40	10	30
300+00	50.00	0.00	0.00	7.70	0	0	13	40	26	14
300+50	50.00	0.00	0.00	5.63	0	0	12	40	41	-1
301+00	50.00	0.00	0.00	4.51	0	0	9	40	53	-13
301+50	50.00	0.00	0.00	8.93	0	0	12	40	68	-28
302+00	50.00	0.00	0.00	15.38	0	0	23	40	96	-56
302+50	50.00	0.00	0.00	16.87	0	0	30	40	134	-94
303+00	50.00	32.65	16.50	16.33	30	15	31	70	173	-118
303+50	50.00	27.31	16.50	19.11	56	31	33	126	214	-134
304+00	50.00	23.52	16.50	22.10	47	31	38	173	261	-165
304+50	50.00	23.69	16.50	21.96	44	31	41	217	313	-204
305+00	50.00	24.58	16.50	18.71	45	31	38	262	360	-237
305+50	50.00	22.27	16.50	16.41	43	31	33	305	401	-266
306+00	50.00	21.58	16.50	12.69	41	31	27	346	435	-290
306+50	50.00	23.80	16.50	10.29	42	31	21	388	461	-305
307+00	50.00	24.53	16.50	8.89	45	31	18	433	484	-314
307+50	50.00	19.07	16.50	7.49	40	31	15	473	503	-324
308+00	50.00	18.68	16.50	7.60	35	31	14	508	520	-337
308+50	50.00	18.01	16.50	5.05	34	31	12	542	535	-349

ZG

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
283+00	0.00	12.51	6.75	175.02	0	0	0	0	0	0
283+50	50.00	0.65	0.00	295.98	12	6	436	12	545	-539
284+00	50.00	5.36	0.00	152.38	6	0	415	18	1,064	-1,052

NOTE 1: CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
NOTE 2: SALVAGED/UNUSABLE PAVEMENT MATERIAL DOES NOT SHOW UP IN CROSS SECTIONS
NOTE 3: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL

ZAT

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
283+50	0.00	38.03	0.00	0.00	0	0	0	0	0	0
283+65.351	15.35	38.96	0.00	0.00	22	0	0	22	0	22
284+00	34.65	31.42	0.00	0.00	45	0	0	67	0	67
284+50	50.00	26.81	0.00	0.00	54	0	0	121	0	121
284+75	25.00	27.07	0.00	0.00	25	0	0	146	0	146
285+00	25.00	23.82	0.00	0.00	24	0	0	170	0	170
285+00	0.00	0.00	0.00	0.00	0	0	0	170	0	170
285+50	50.00	18.91	0.00	0.00	18	0	0	188	0	188
286+00	50.00	14.06	0.00	0.00	31	0	0	219	0	219

MAPLE BLUFF

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
23+50	0.00	45.58	15.75	14.68	0	0	0	0	0	0
24+00	50.00	26.45	7.13	0.00	67	21	14	67	18	29
24+50	50.00	30.37	9.08	0.83	53	15	1	120	19	65
25+00	50.00	22.26	1.55	0.14	49	10	1	169	20	103
25+50	50.00	19.50	1.55	7.56	39	3	7	208	29	130
26+00	50.00	18.73	1.58	44.68	35	3	48	243	89	102
26+50	50.00	17.13	1.68	10.85	33	3	51	276	153	69
27+00	50.00	16.41	1.35	2.45	31	3	12	307	168	82
27+50	50.00	0.00	0.00	0.00	15	1	2	322	170	93

ZB EX

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
299+39.156	0.00	18.20	5.12	0.00	0	0	0	0	0	0
299+50	10.84	20.08	5.12	0.00	8	2	0	8	0	6
300+00	50.00	19.75	5.12	0.00	37	9	0	45	0	34
300+50	50.00	19.46	5.12	0.00	36	9	0	81	0	61
301+00	50.00	24.93	5.12	1.99	41	9	2	122	3	91
301+50	50.00	42.54	5.12	0.05	62	9	2	184	5	141
302+00	50.00	60.85	5.12	0.00	96	9	0	280	5	228
302+50	50.00	76.06	5.12	0.00	127	9	0	407	5	346
303+00	50.00	83.53	1.88	0.01	148	6	0	555	5	488
303+50	50.00	102.21	1.88	1.26	172	3	1	727	6	656
304+00	50.00	111.32	1.88	8.14	198	3	9	925	18	840
304+50	50.00	107.77	1.88	4.44	203	3	12	1,128	33	1,025
305+00	50.00	74.85	1.88	12.30	169	3	15	1,297	51	1,172
305+50	50.00	52.59	1.88	31.37	118	3	40	1,415	101	1,237
306+00	50.00	43.11	1.88	40.46	89	3	67	1,504	185	1,239
306+50	50.00	30.10	1.88	36.68	68	3	71	1,572	274	1,215
307+00	50.00	13.91	1.88	18.25	41	3	51	1,613	338	1,190
307+50	50.00	12.42	1.88	0.00	24	3	17	1,637	359	1,189
308+00	50.00	9.41	1.88	0.00	20	3	0	1,657	359	1,206
308+23.034	23.03	8.89	1.88	0.00	8	2	0	1,665	359	1,212

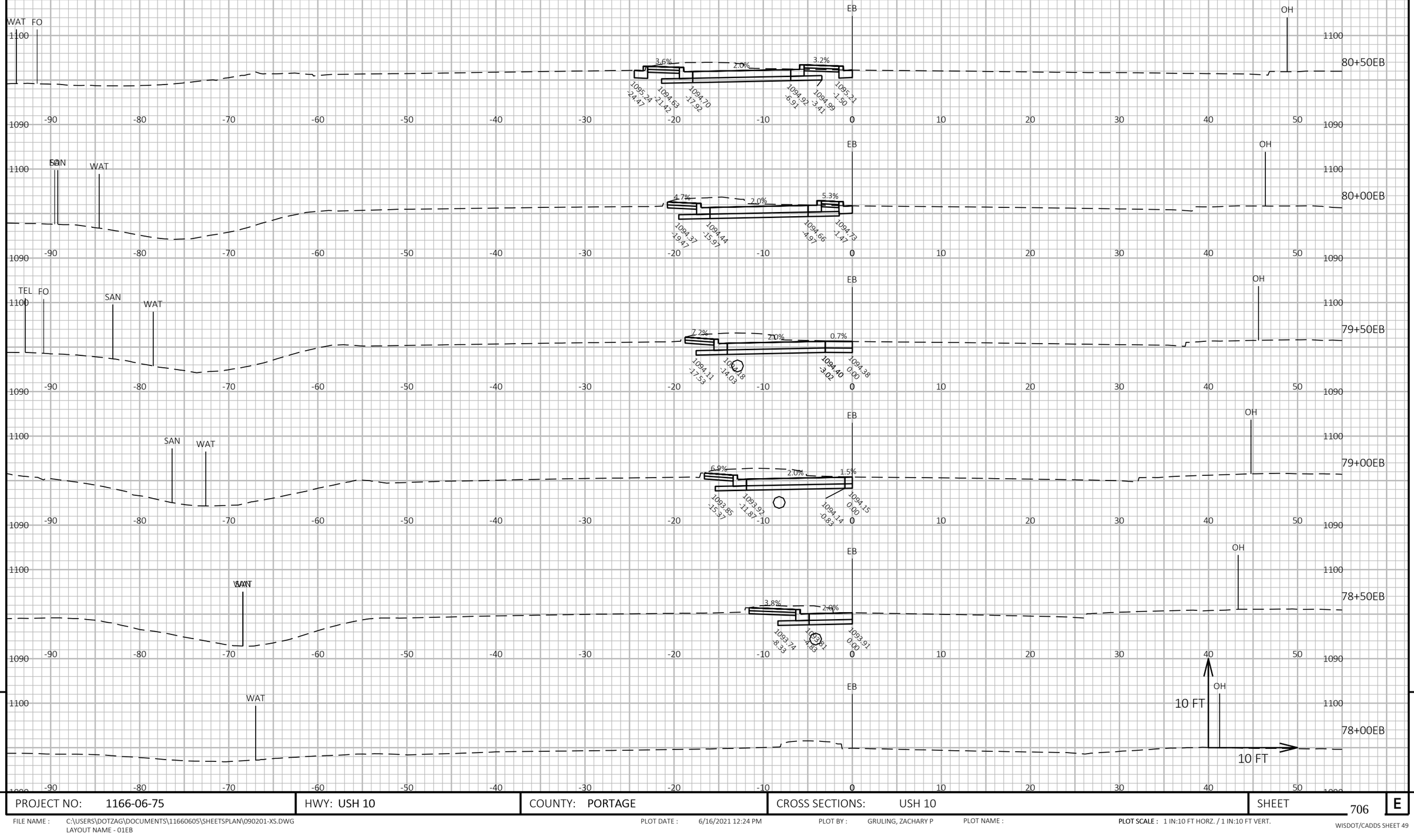
NOTE 1: CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
NOTE 2: SALVAGED/UNUSABLE PAVEMENT MATERIAL DOES NOT SHOW UP IN CROSS SECTIONS
NOTE 3: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL

STH 66 EB

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
78+00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
78+50	50.00	20.50	1.95	0.00	19	2	0	19	0	17
79+00	50.00	32.87	1.40	0.00	49	3	0	68	0	63
79+50	50.00	34.09	6.90	0.00	62	8	0	130	0	117
80+00	50.00	33.62	9.38	0.03	63	15	0	193	0	165
80+50	50.00	36.39	9.38	0.40	65	17	0	258	0	213
81+00	50.00	0.00	0.00	0.00	34	9	0	292	0	238
81+50	50.00	90.70	35.85	5.80	84	33	5	376	6	283
82+00	50.00	75.67	17.63	13.90	154	50	18	530	29	364
82+50	50.00	45.92	9.75	0.00	113	25	13	643	45	436
83+00	50.00	46.19	9.75	0.00	85	18	0	728	45	503
83+50	50.00	46.53	9.75	0.00	86	18	0	814	45	571
84+00	50.00	46.09	9.75	0.00	86	18	0	900	45	639
84+50	50.00	51.69	9.75	0.00	91	18	0	991	45	712
85+00	50.00	39.86	9.75	0.00	85	18	0	1,076	45	779
85+50	50.00	0.00	9.38	0.00	37	18	0	1,113	45	798

NOTE 1: CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
NOTE 2: SALVAGED/UNUSABLE PAVEMENT MATERIAL DOES NOT SHOW UP IN CROSS SECTIONS
NOTE 3: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL

SEE TYPICAL SECTIONS FOR EXCAVATION LIMITS



9

9

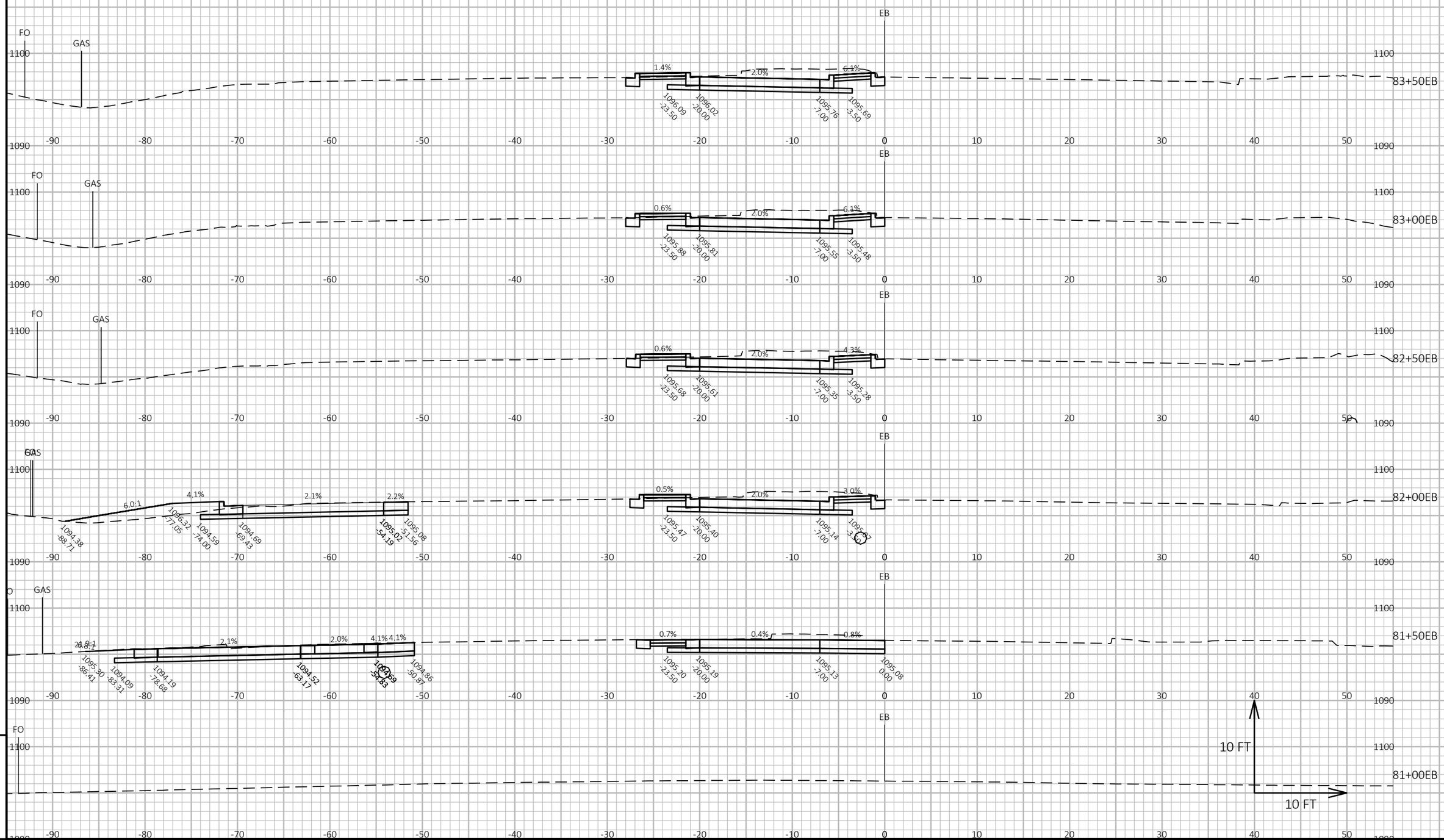
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 706	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01EB

PLOT DATE : 6/16/2021 12:24 PM PLOT BY : GRULING, ZACHARY P PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

SEE TYPICAL SECTIONS FOR EXCAVATION LIMITS



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9

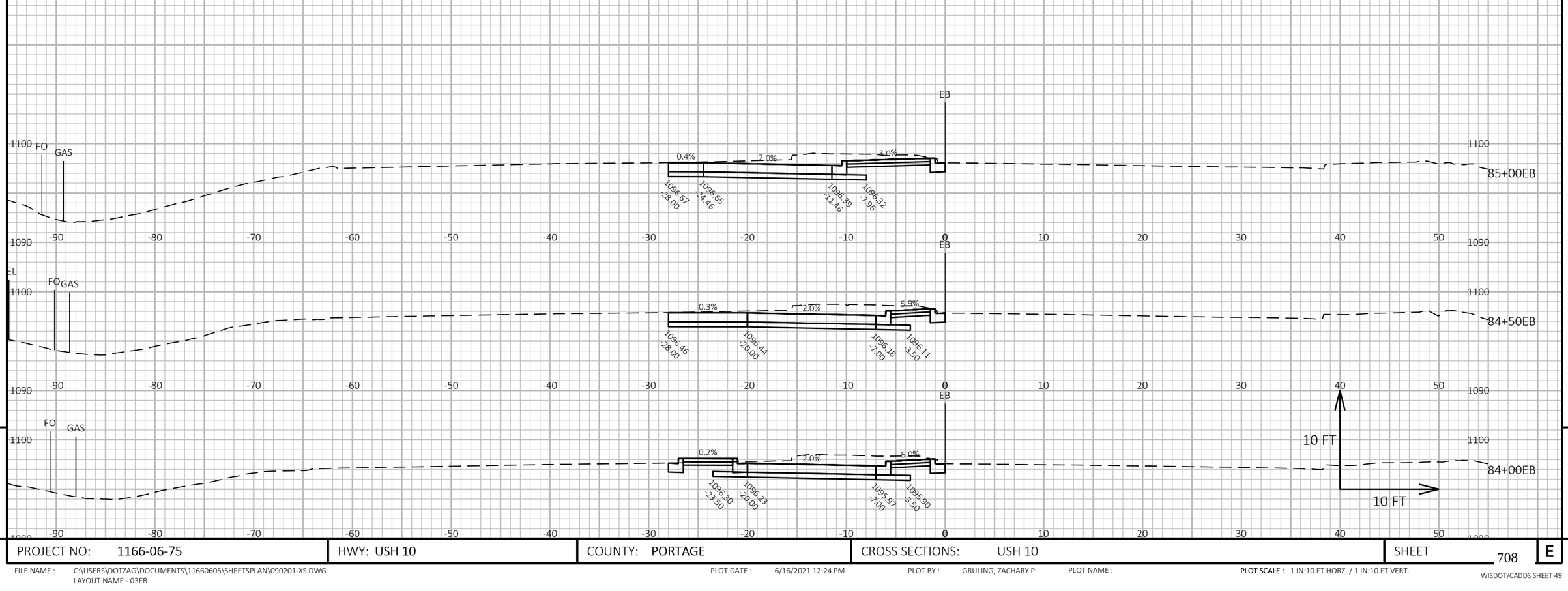
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 707	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 02EB

PLOT DATE : 6/16/2021 12:24 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

SEE TYPICAL SECTIONS FOR EXCAVATION LIMITS

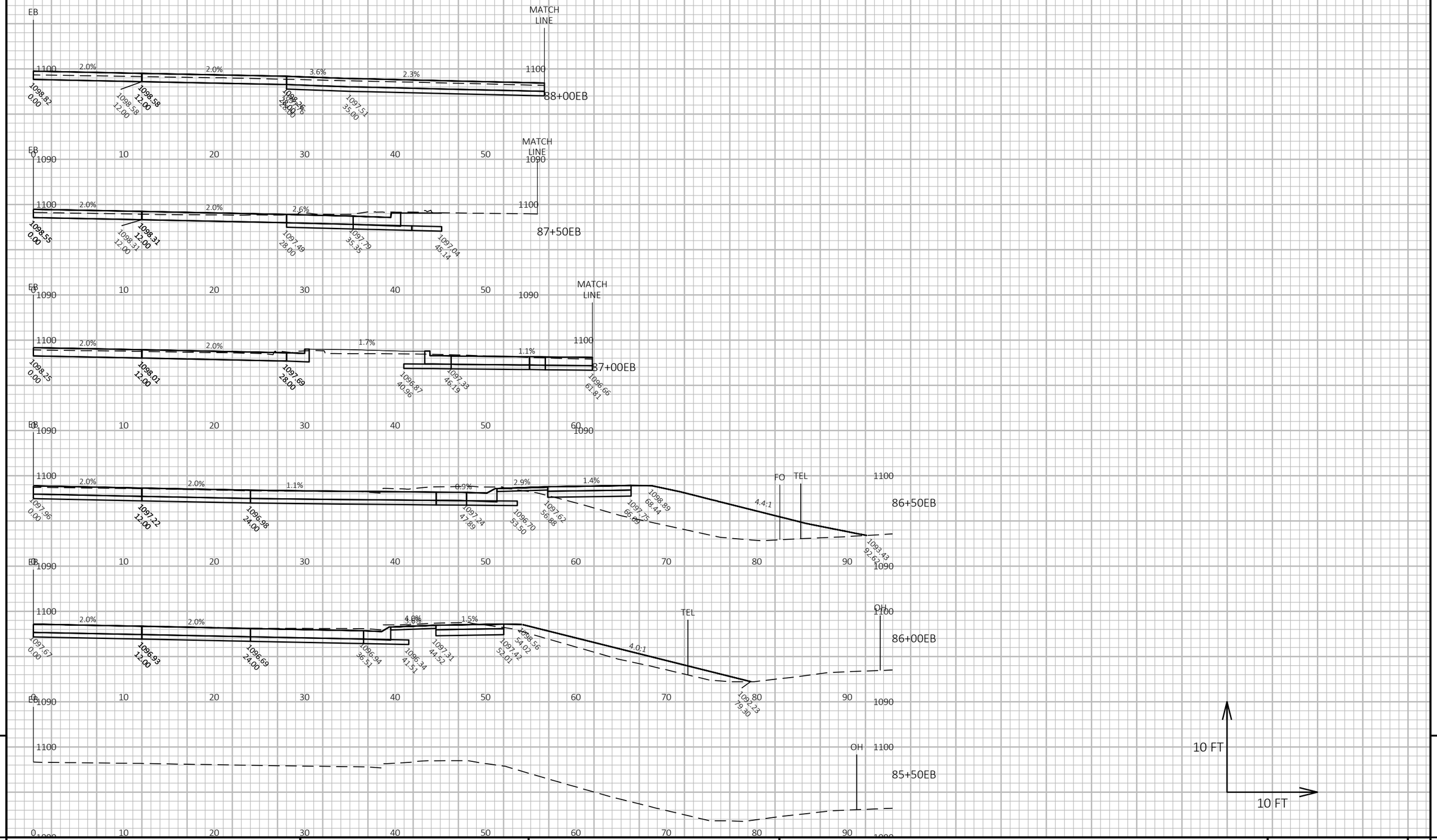


PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 708	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 03EB

PLOT DATE : 6/16/2021 12:24 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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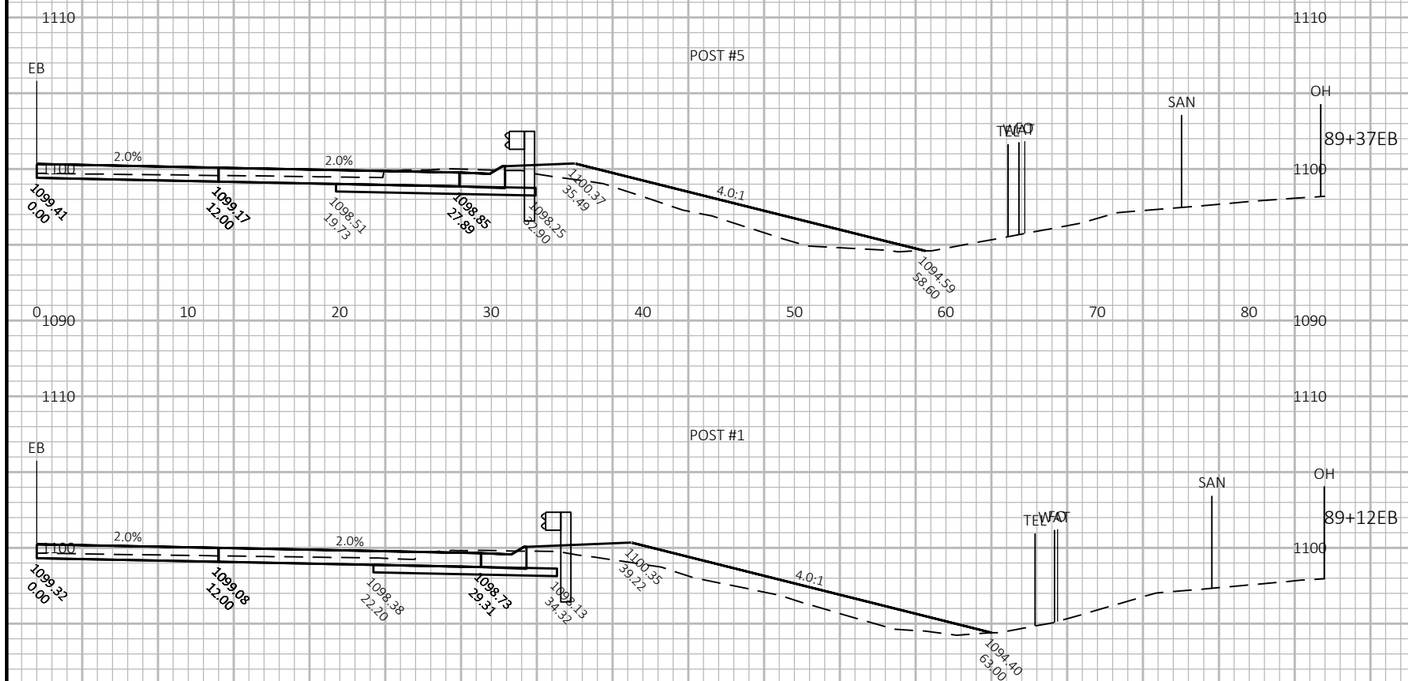
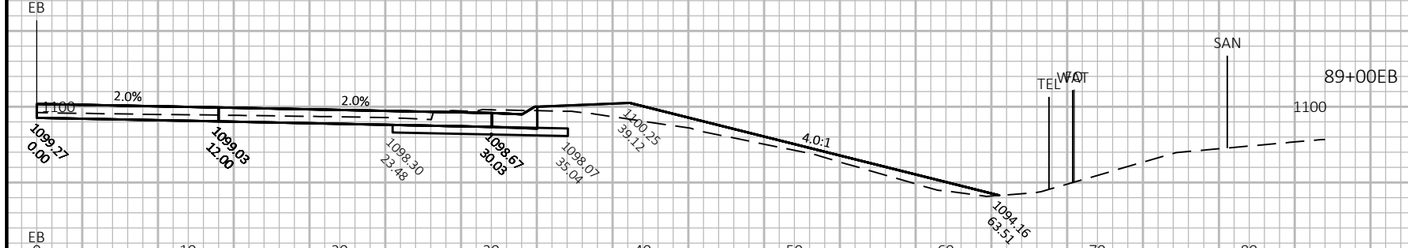
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 709	E

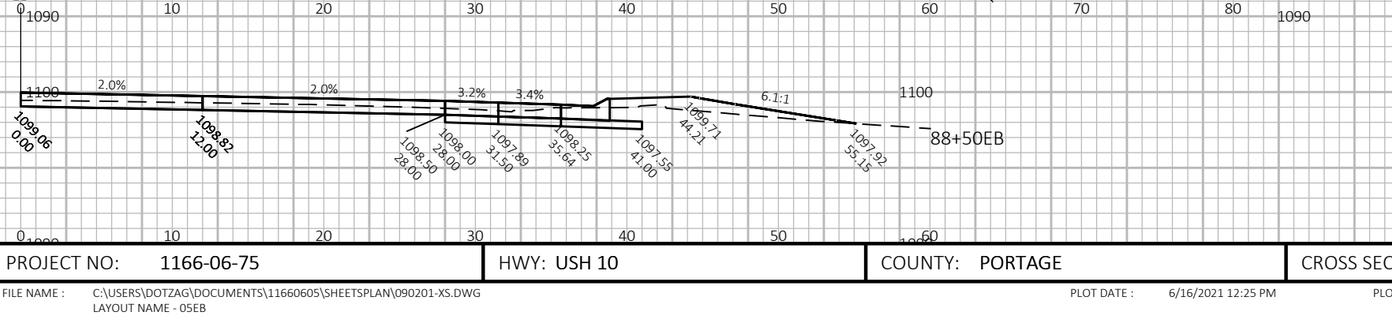
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 04EB

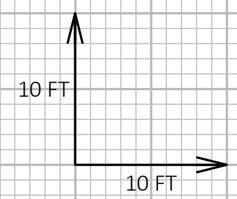
PLOT DATE : 6/16/2021 12:25 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49









9

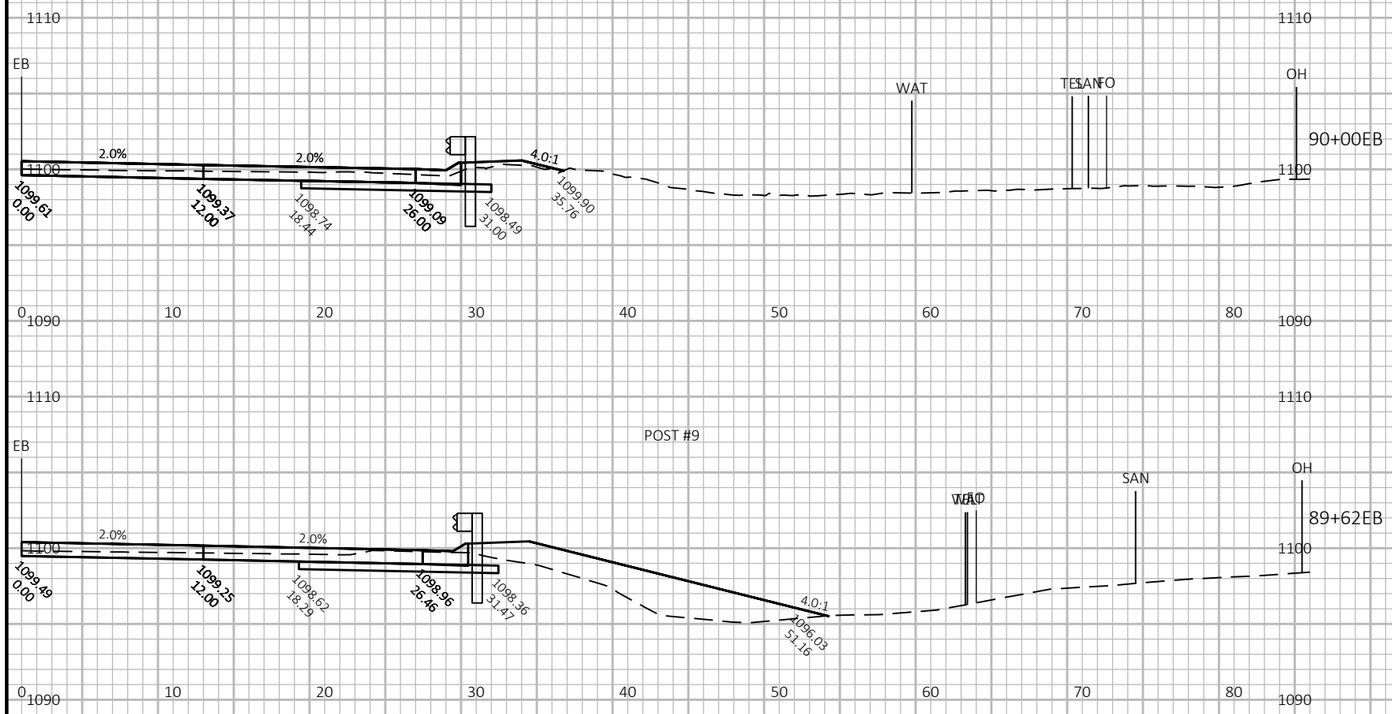
9

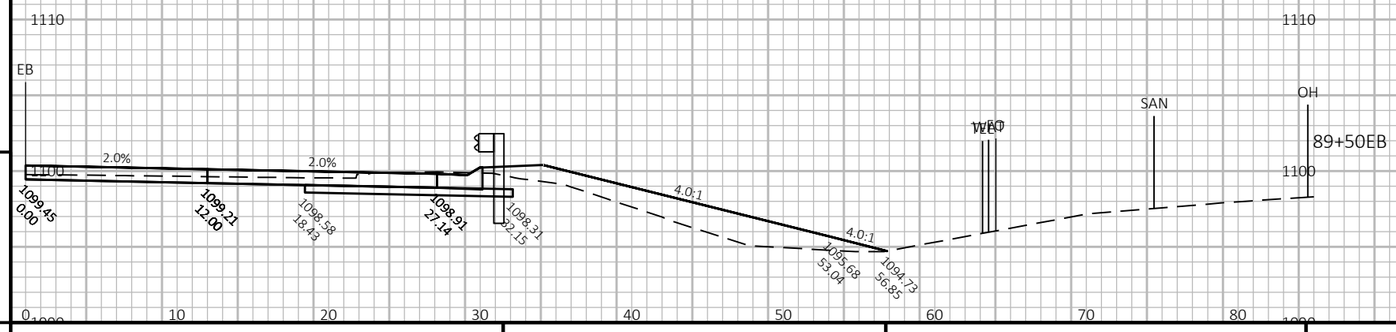
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 710	E

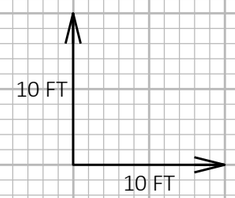
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 05EB

PLOT DATE : 6/16/2021 12:25 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







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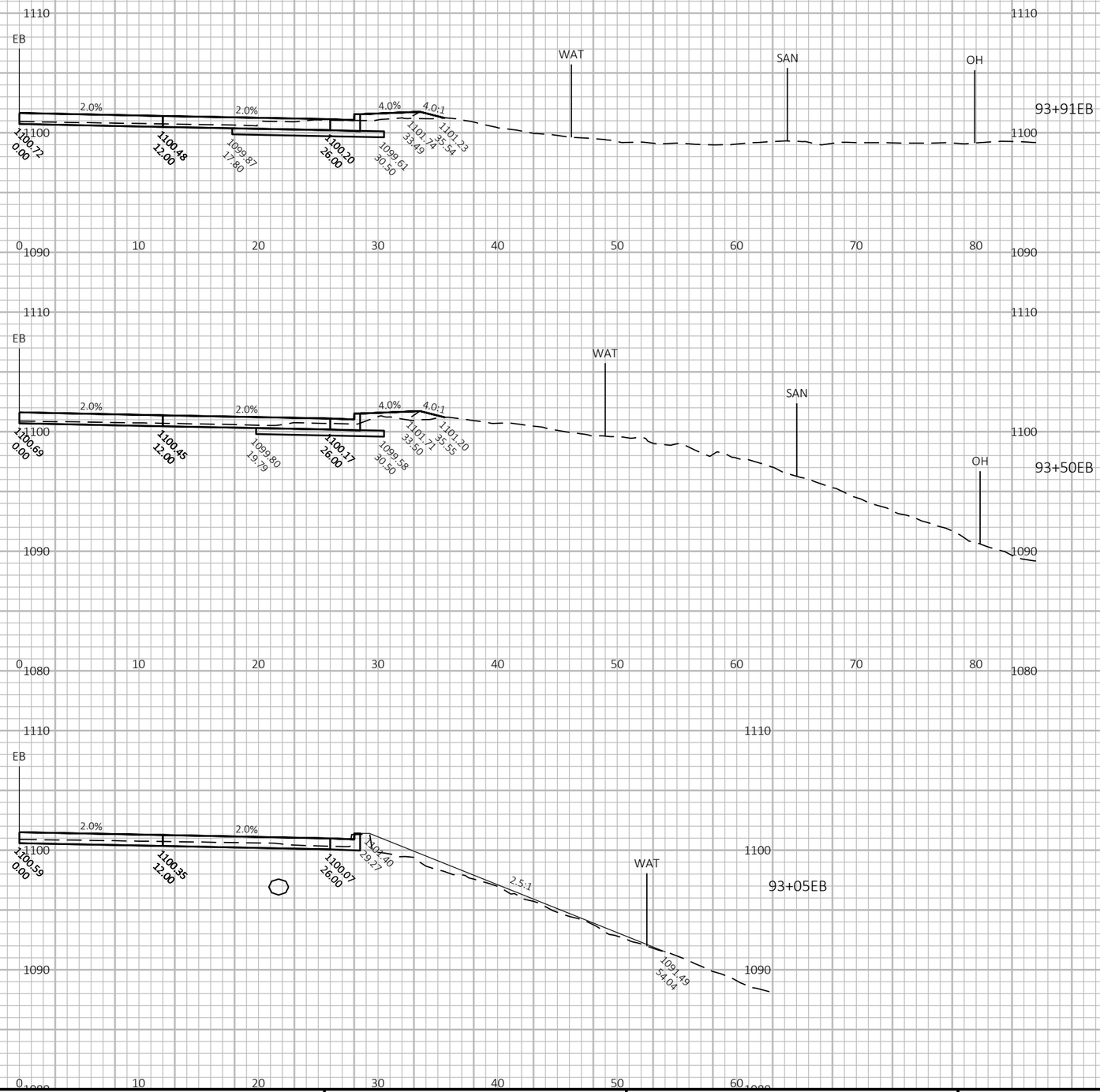
9

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 711	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 06EB

PLOT DATE : 6/16/2021 12:25 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

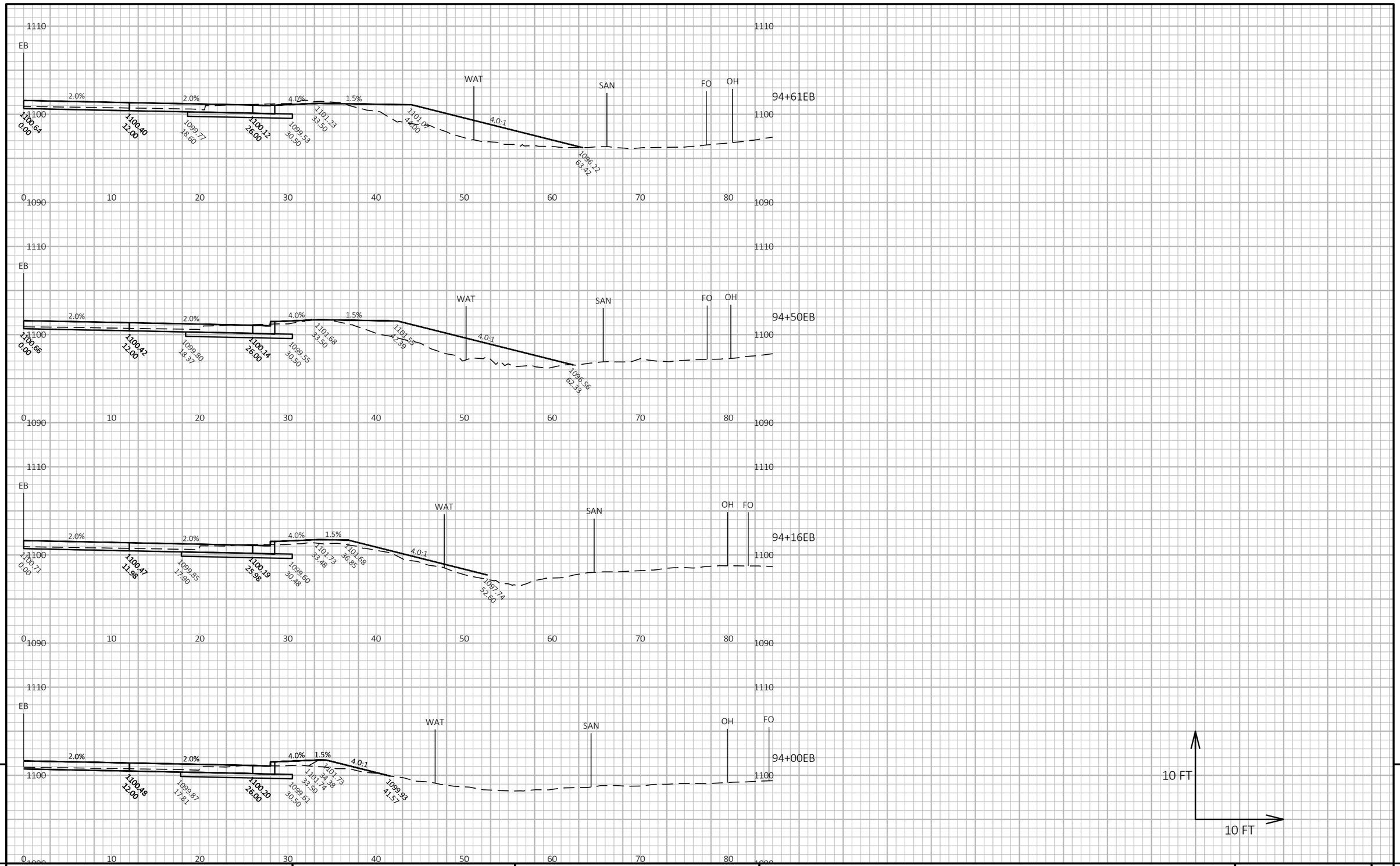
9

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 712	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 07EB

PLOT DATE : 6/16/2021 12:26 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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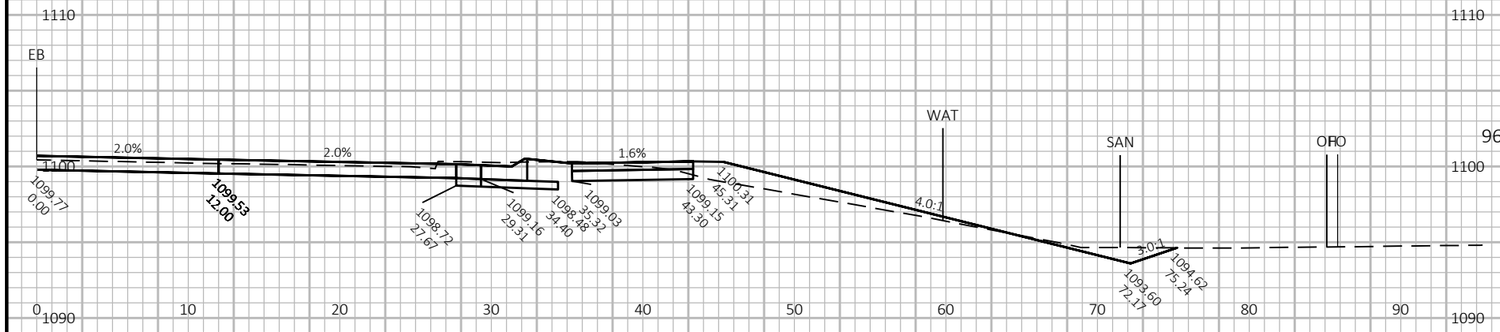
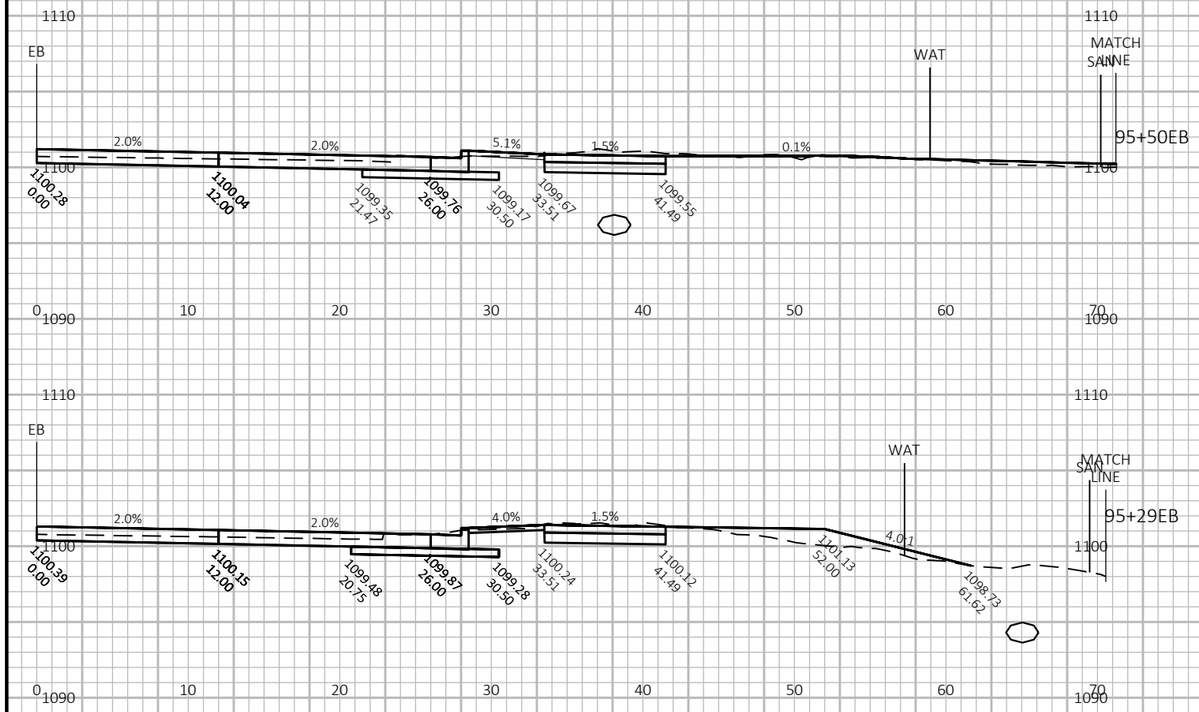
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 713	E

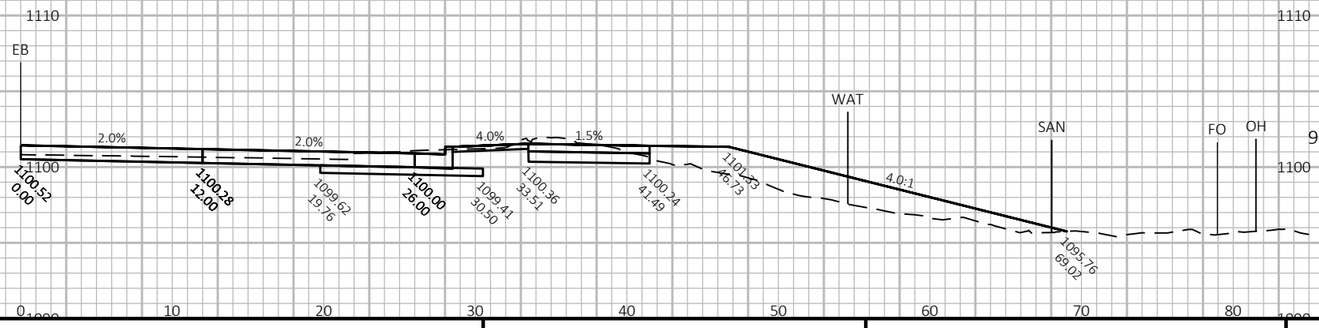
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 08EB

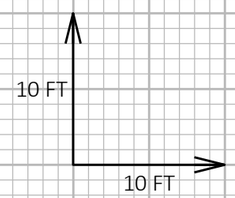
PLOT DATE : 6/16/2021 12:26 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49









9

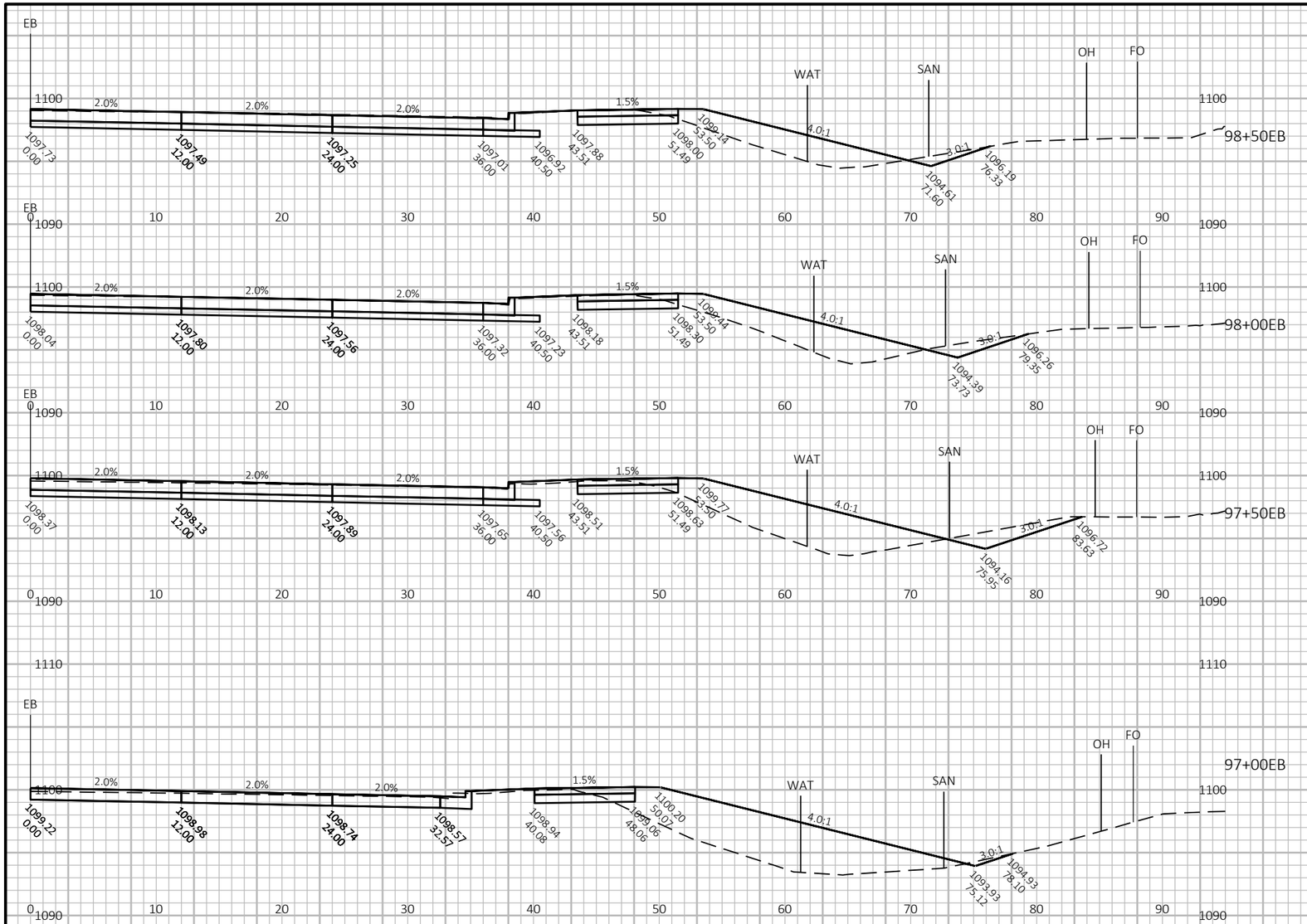
9

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 714	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 09EB

PLOT DATE : 6/16/2021 12:26 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

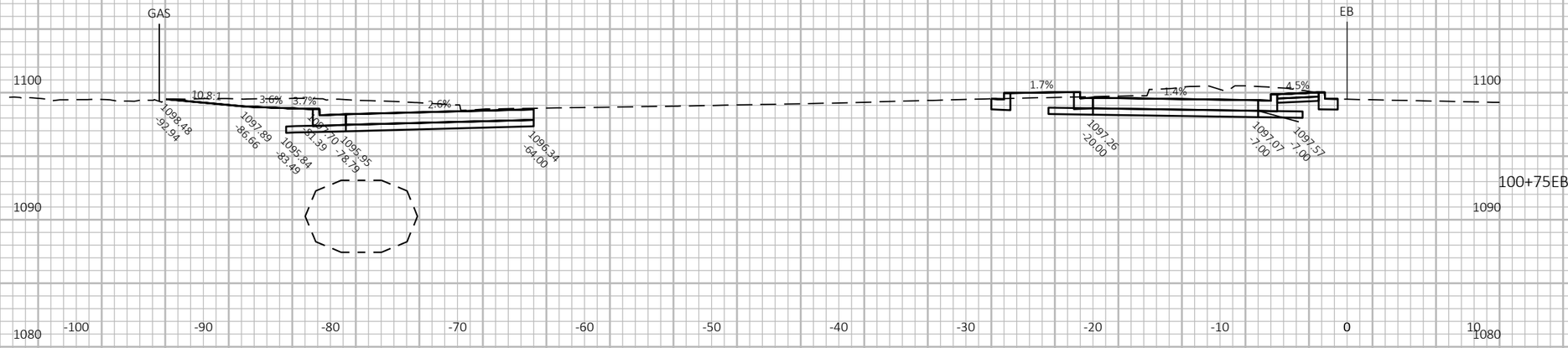


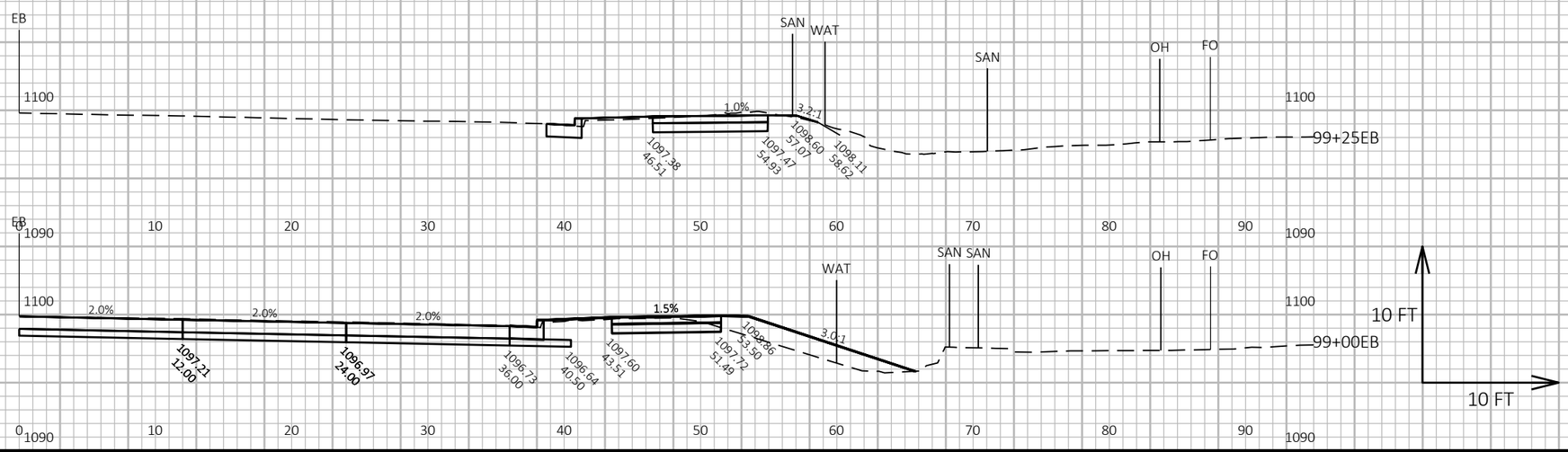
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 715	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 10EB

PLOT DATE : 6/16/2021 12:27 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

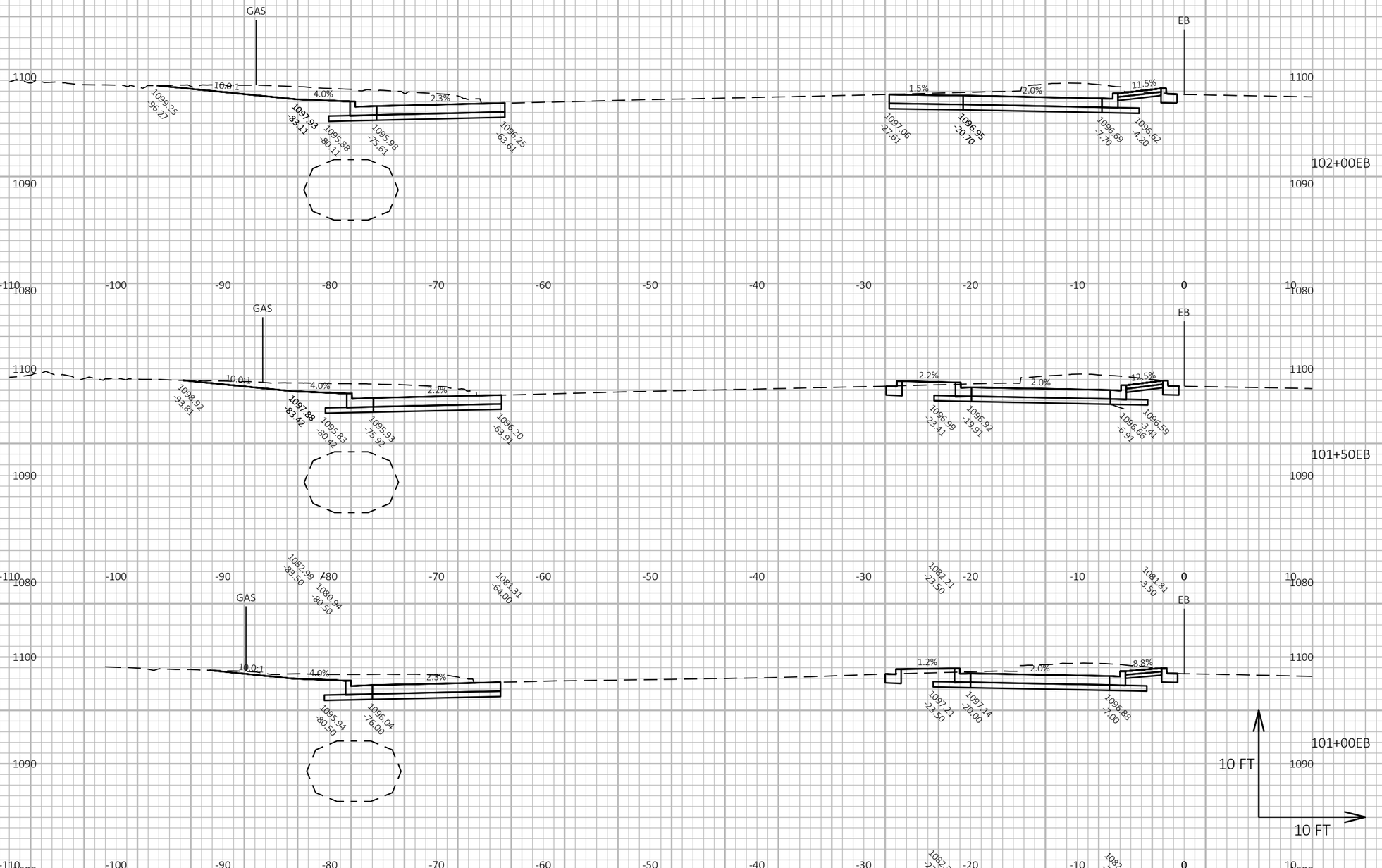
9

PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 716	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 11EB

PLOT DATE : 6/16/2021 12:27 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

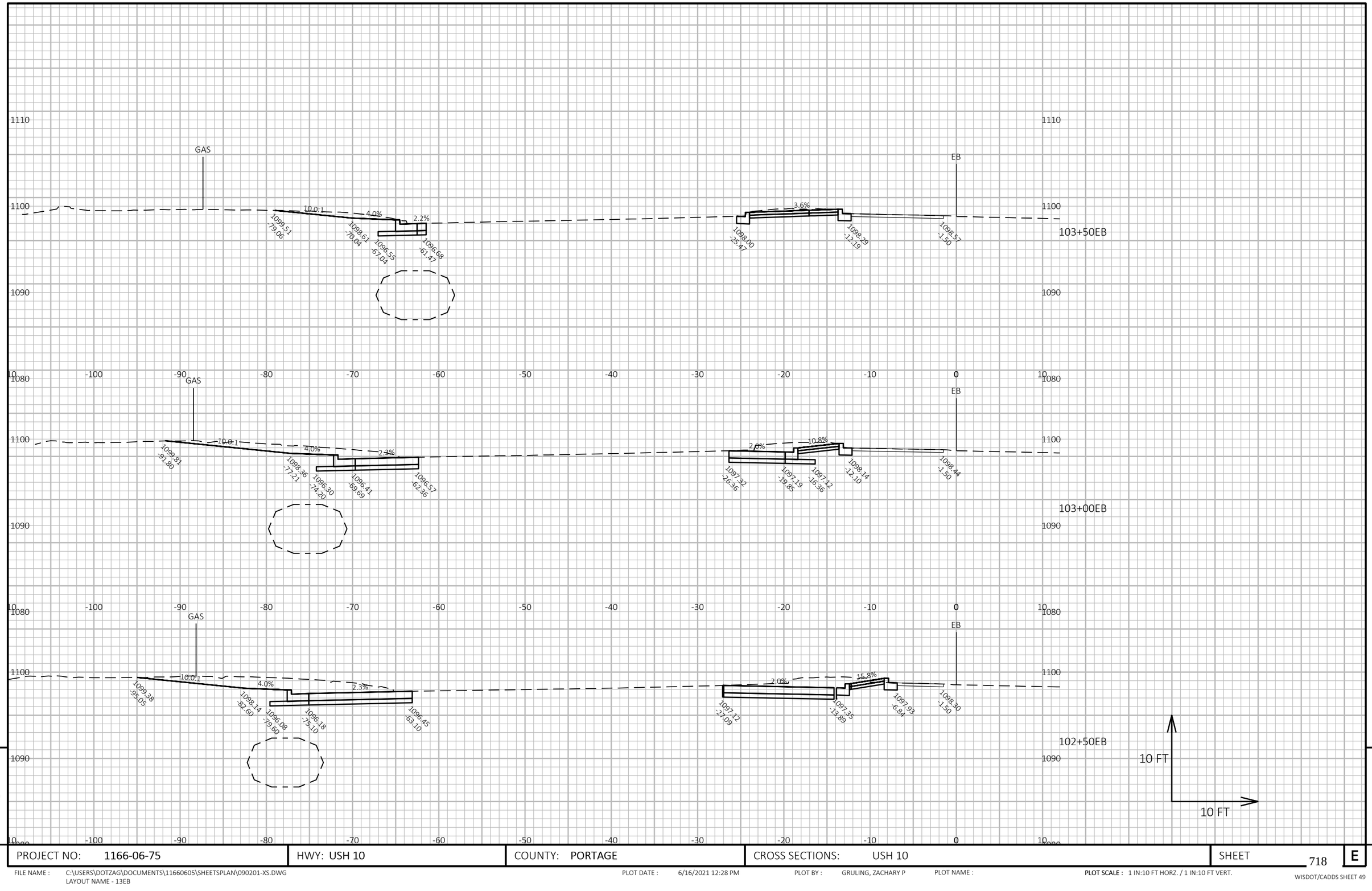
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 717	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 12EB

PLOT DATE : 6/16/2021 12:27 PM PLOT BY : GRULING, ZACHARY P PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

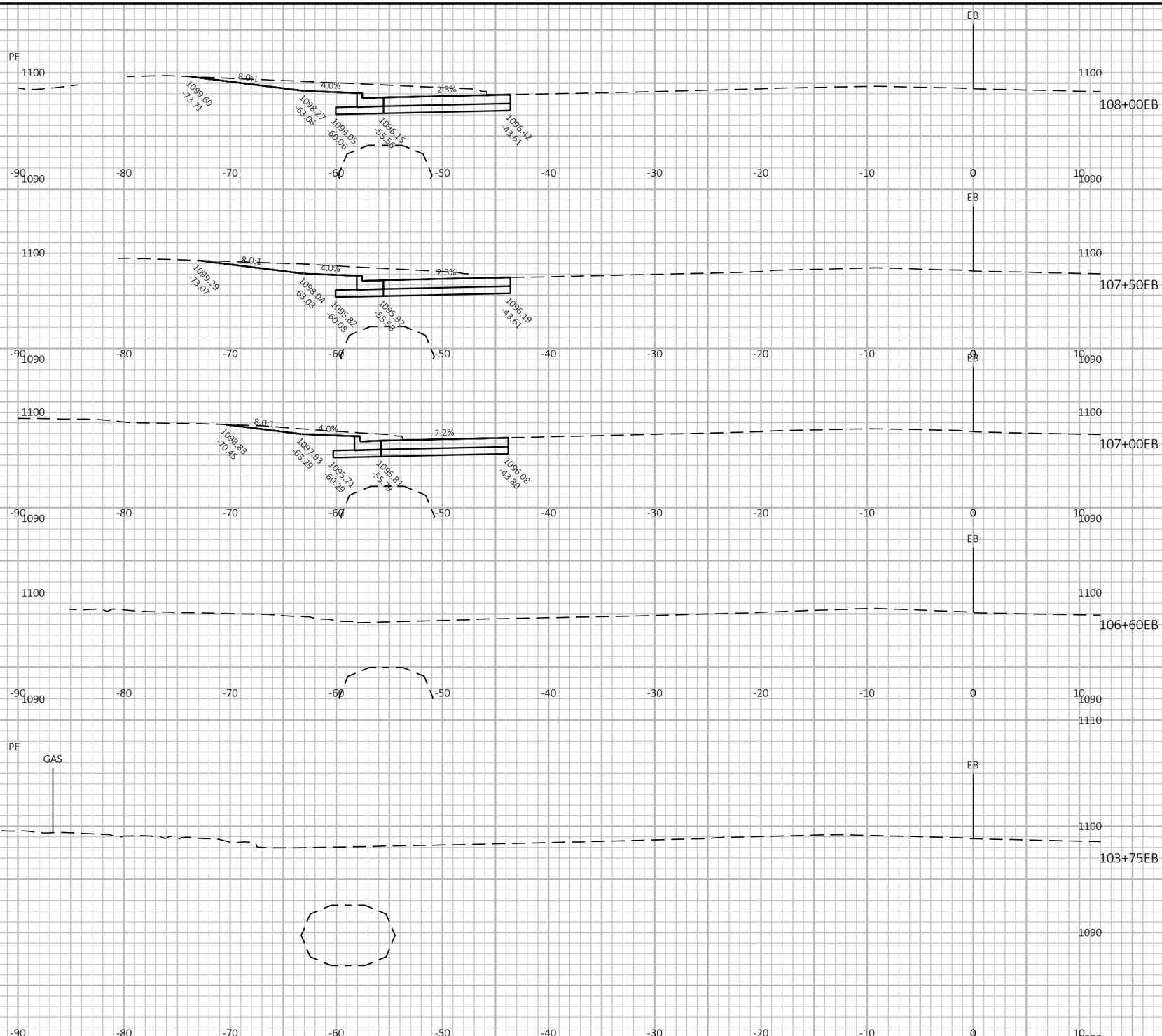
WISDOT/CADDS SHEET 49



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 718	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 13EB

PLOT DATE : 6/16/2021 12:28 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

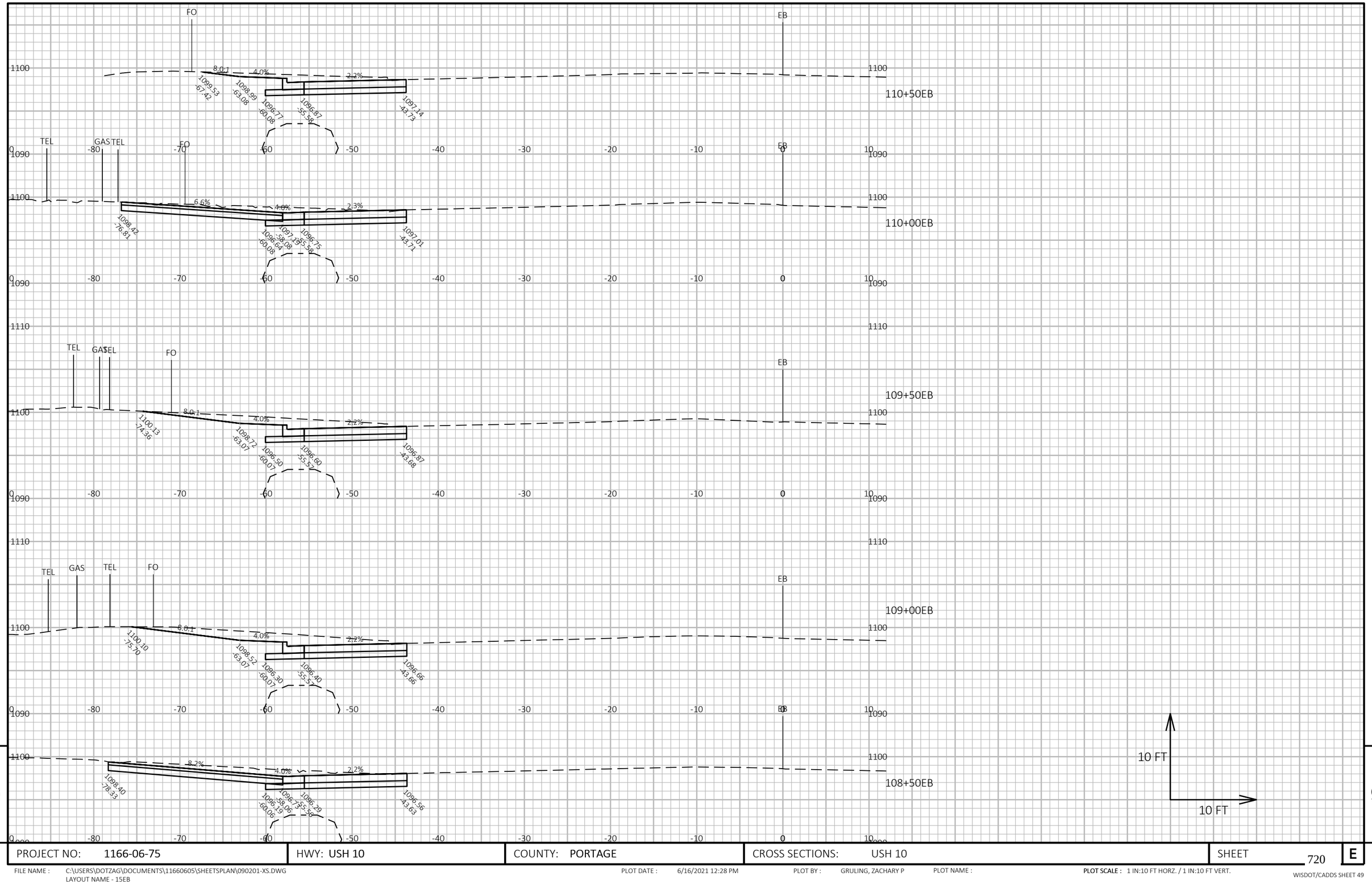


PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 719	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 14EB

PLOT DATE : 6/16/2021 12:28 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 720	E

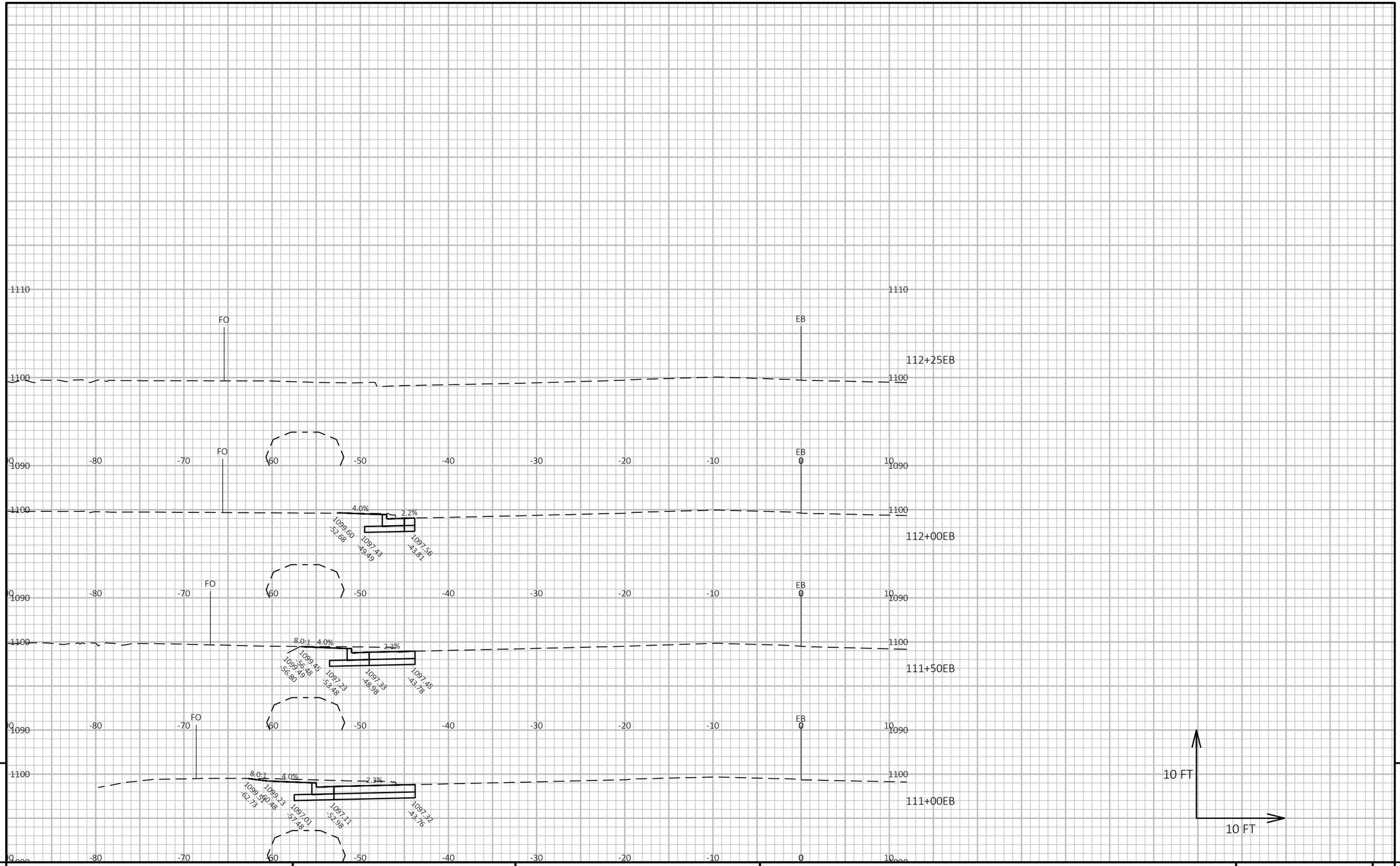
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 15EB

PLOT DATE : 6/16/2021 12:28 PM

PLOT BY : GRULING, ZACHARY P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 721	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 16EB

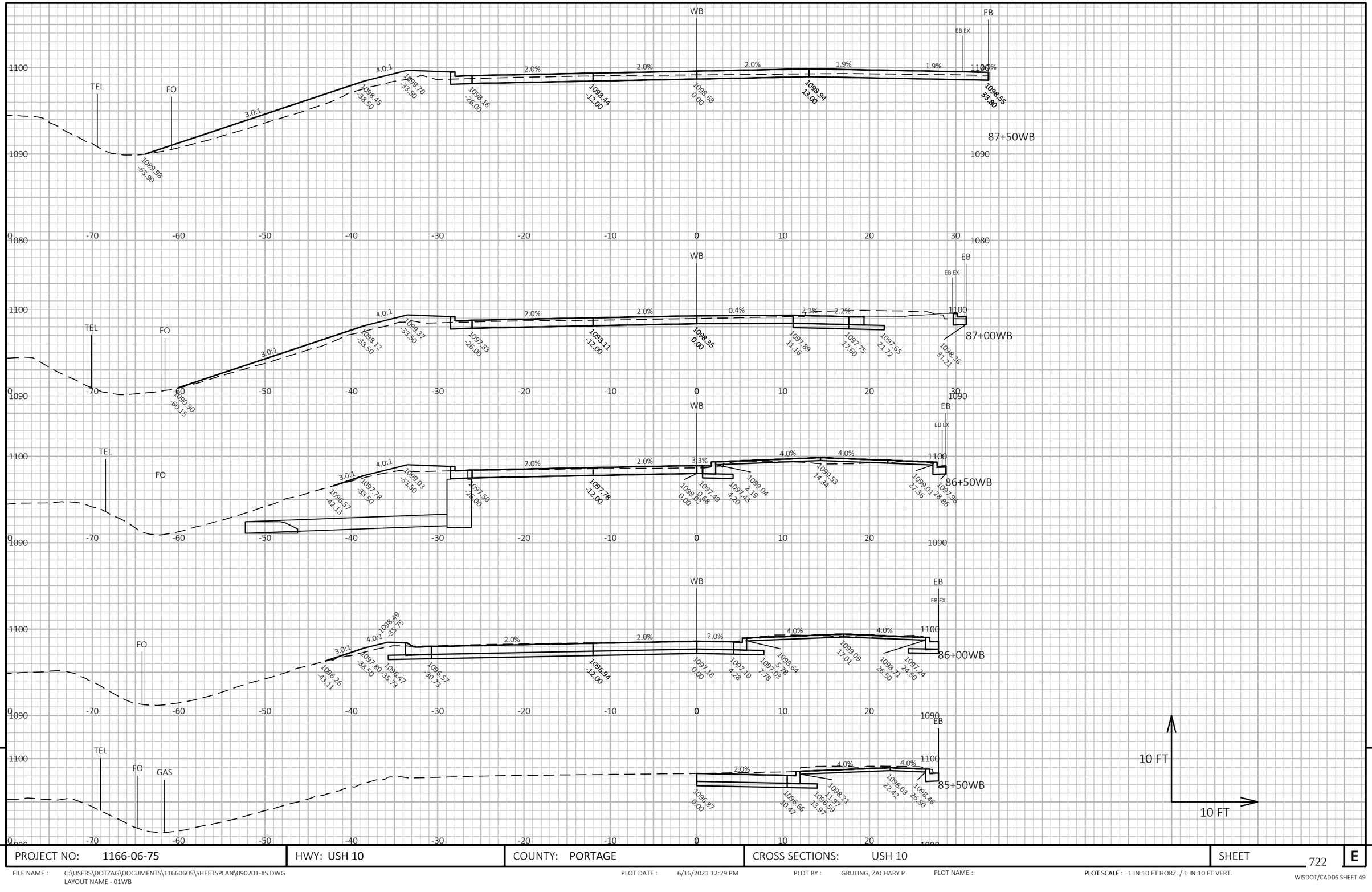
PLOT DATE : 6/16/2021 12:29 PM

PLOT BY : GRULING, ZACHARY P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



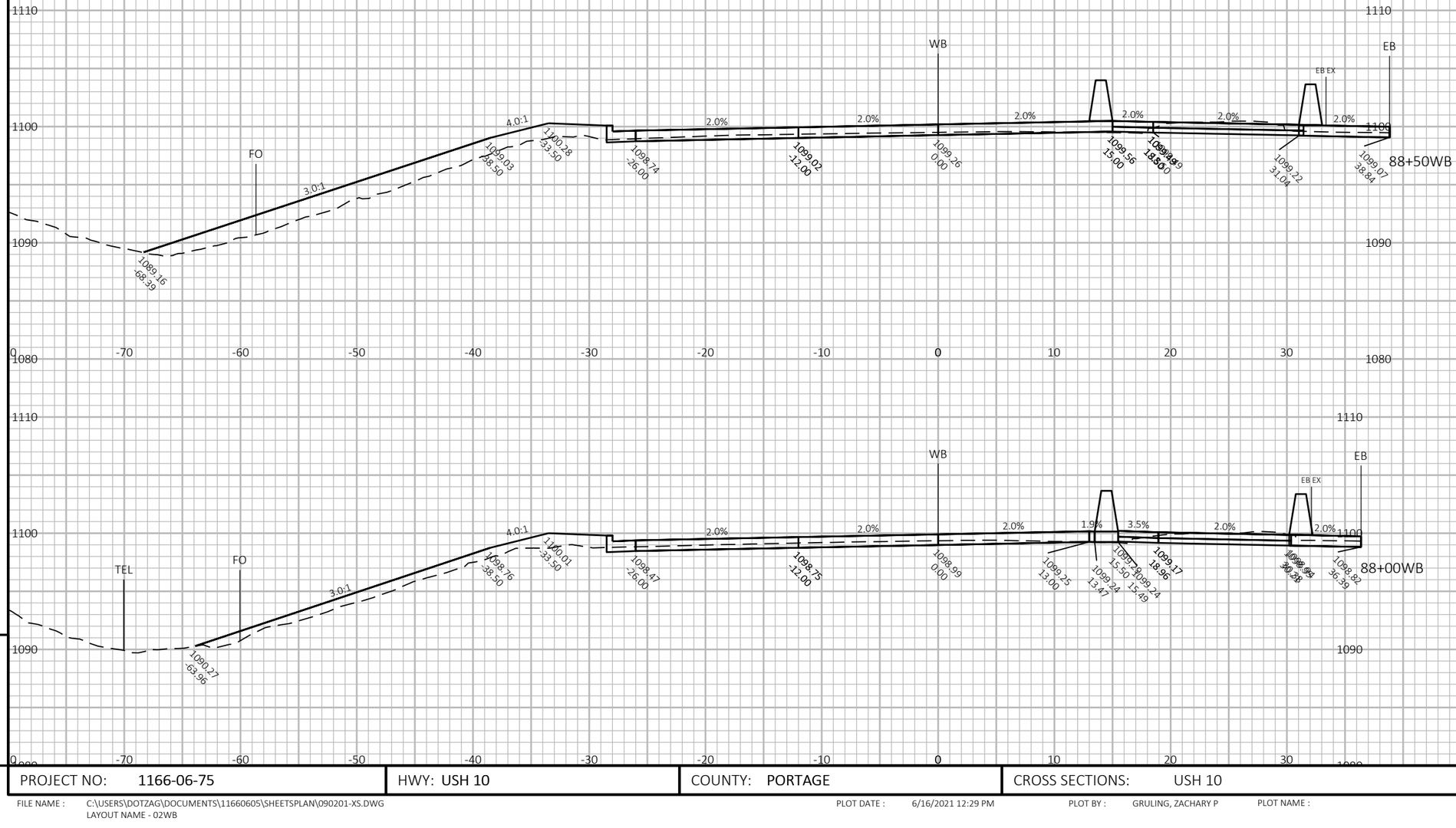
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 722	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01WB

PLOT DATE : 6/16/2021 12:29 PM PLOT BY : GRULING, ZACHARY P PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



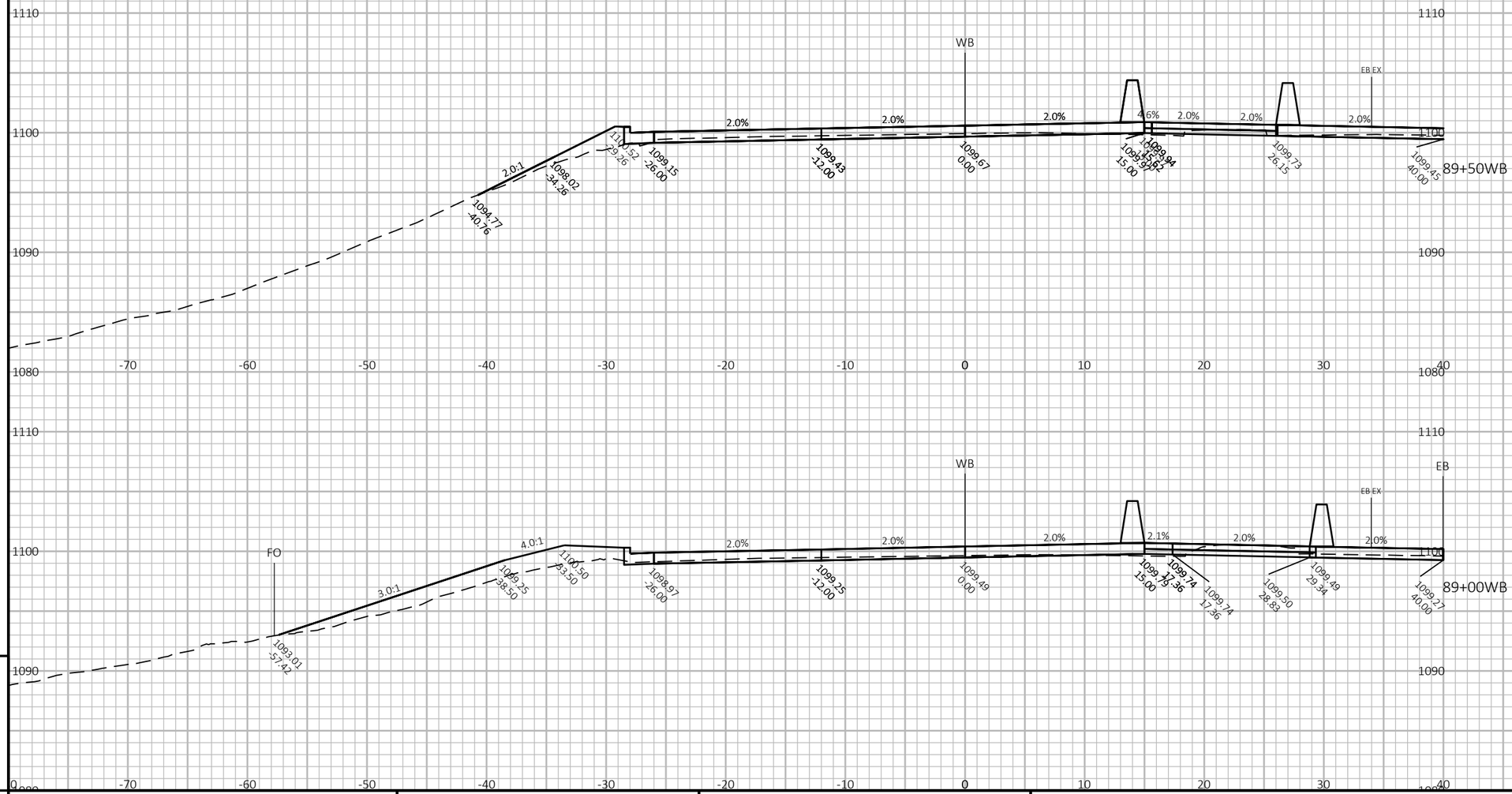
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 723	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 02WB

PLOT DATE : 6/16/2021 12:29 PM PLOT BY : GRULING, ZACHARY P PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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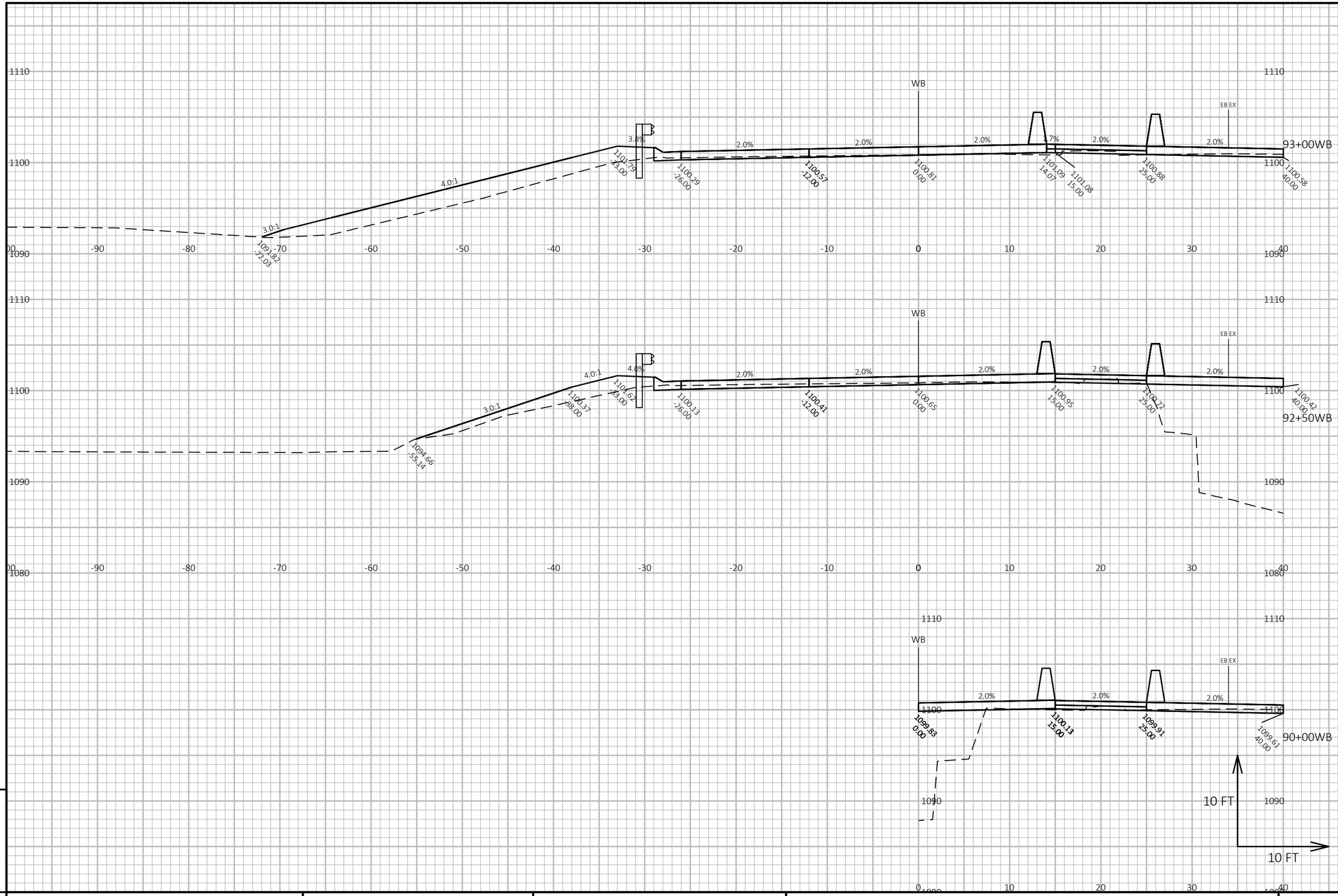
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 724	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 03WB

PLOT DATE : 6/16/2021 12:30 PM PLOT BY : GRULING, ZACHARY P PLOT NAME :

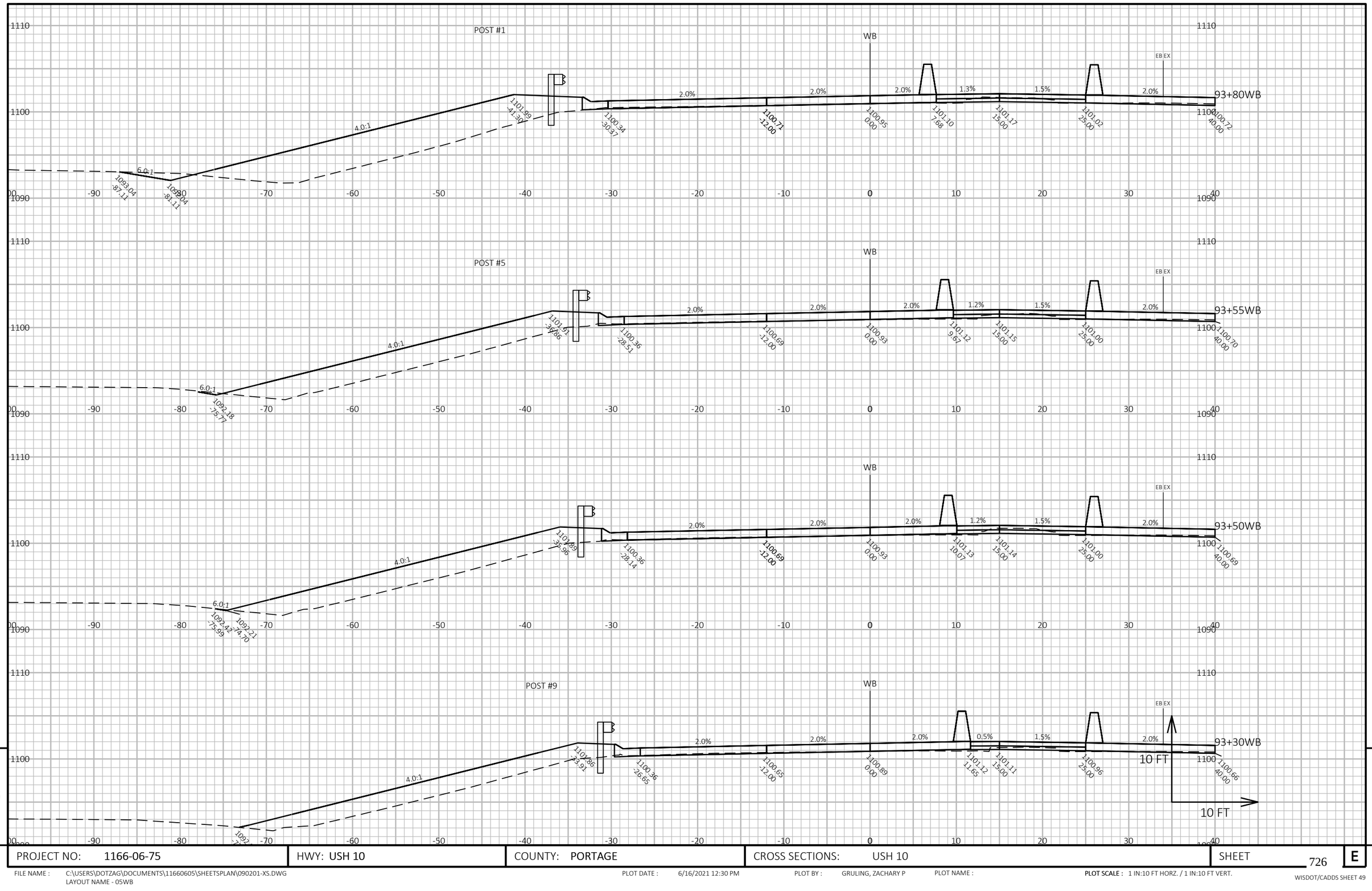
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 725	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 04WB
PLOT DATE : 6/16/2021 12:30 PM
PLOT BY : GRULING, ZACHARY P
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

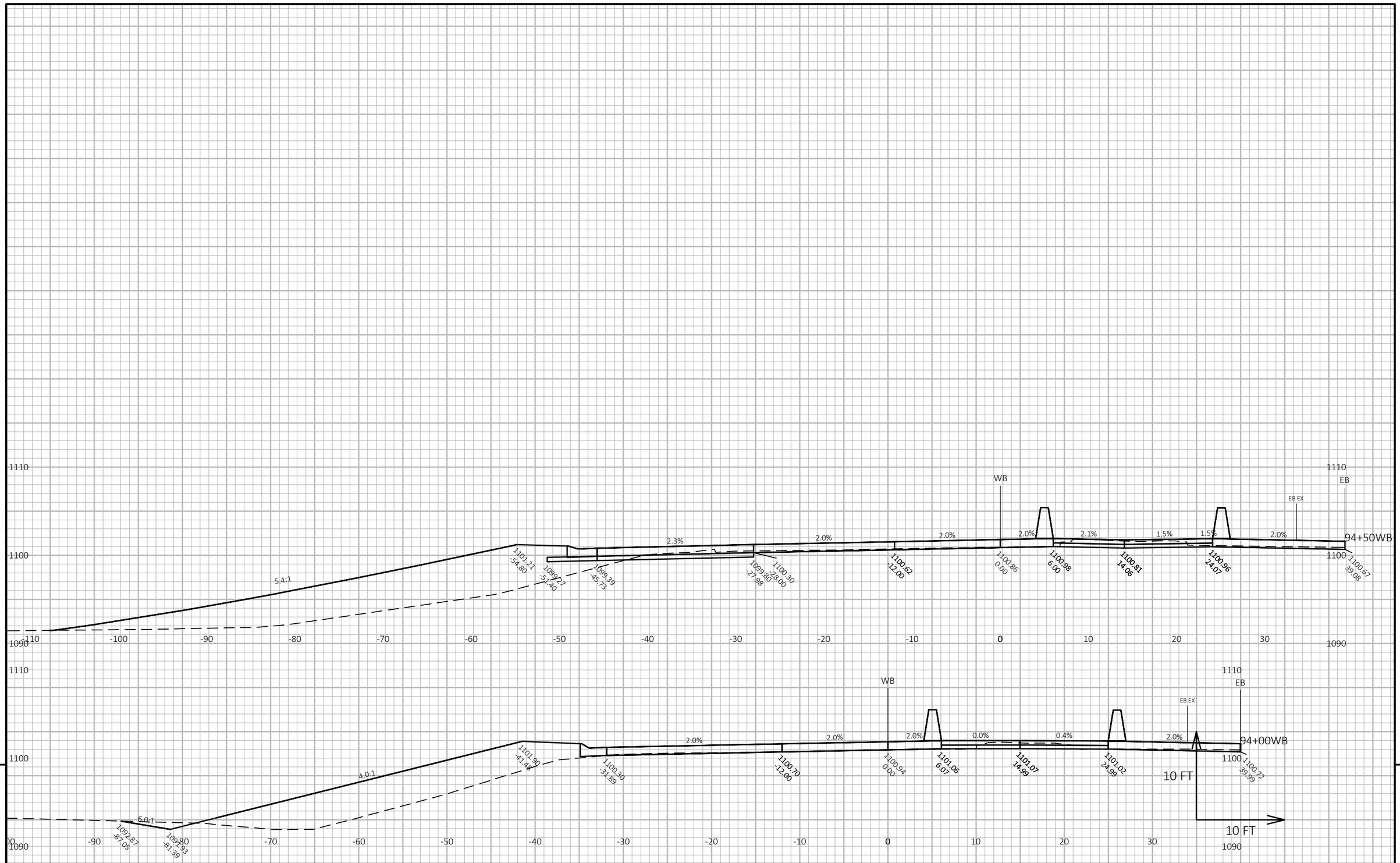


PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 726 E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 05WB

PLOT DATE : 6/16/2021 12:30 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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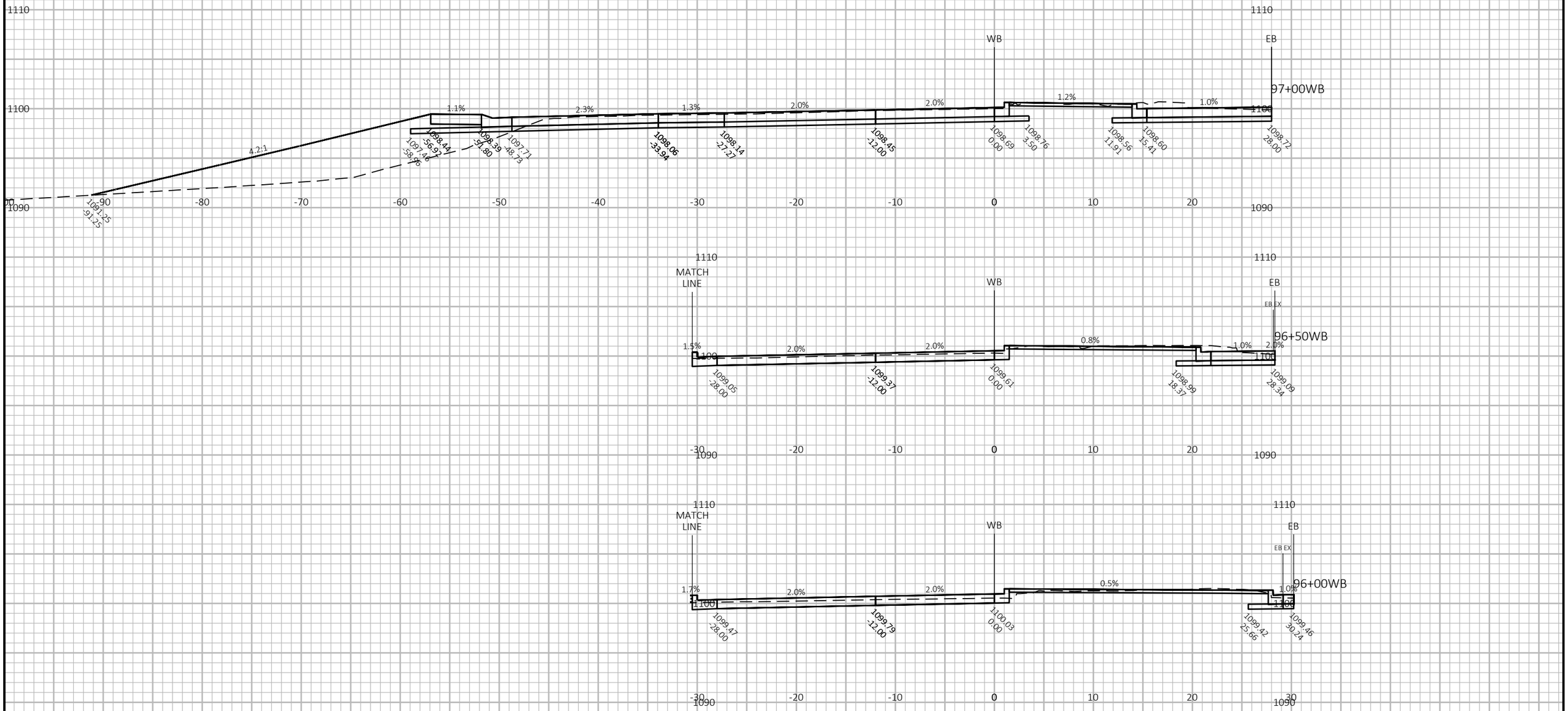
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 727	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 06WB

PLOT DATE : 6/16/2021 12:31 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

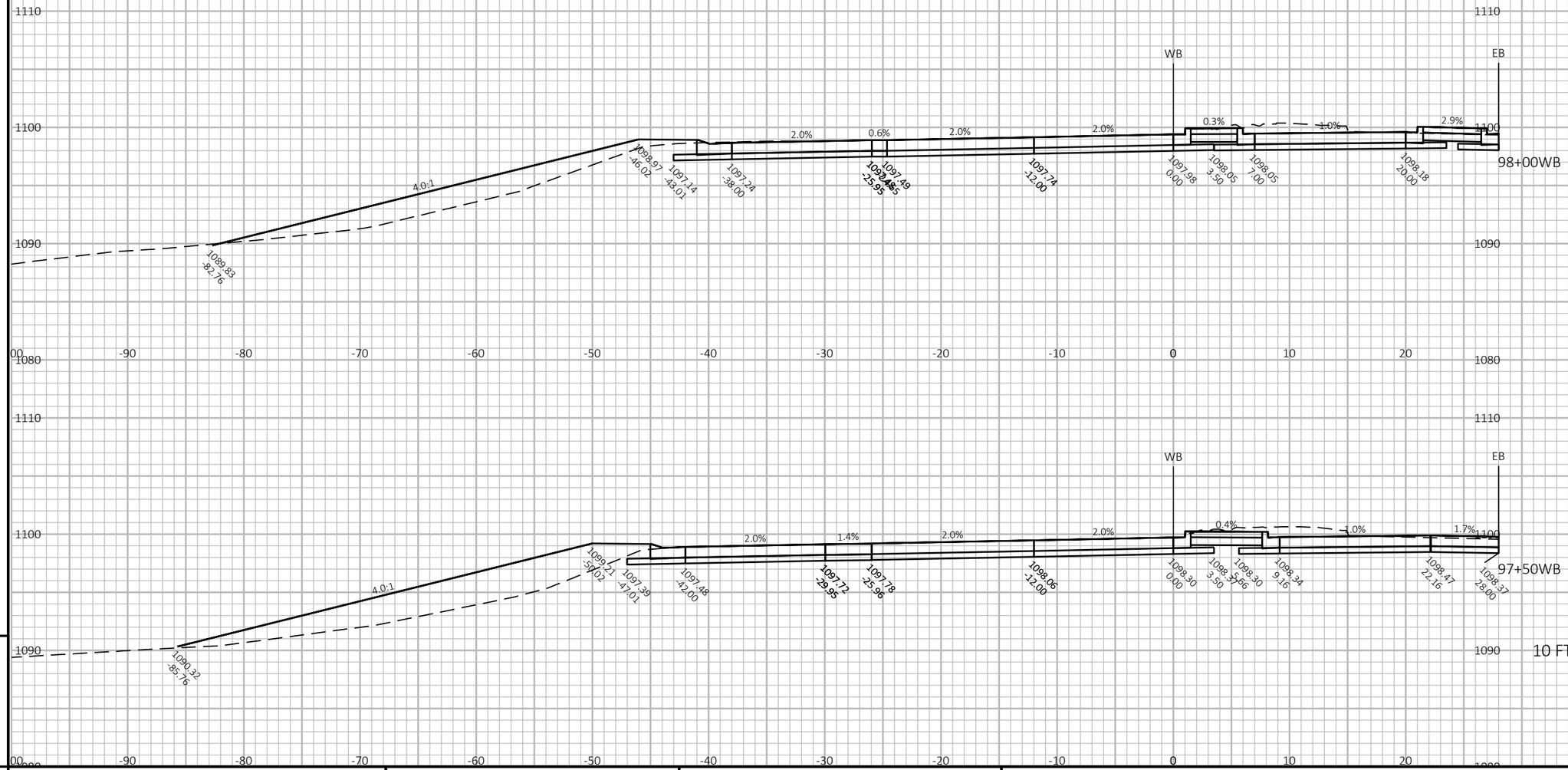


PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 728	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 08WB

PLOT DATE : 6/16/2021 12:31 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 729	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 09WB

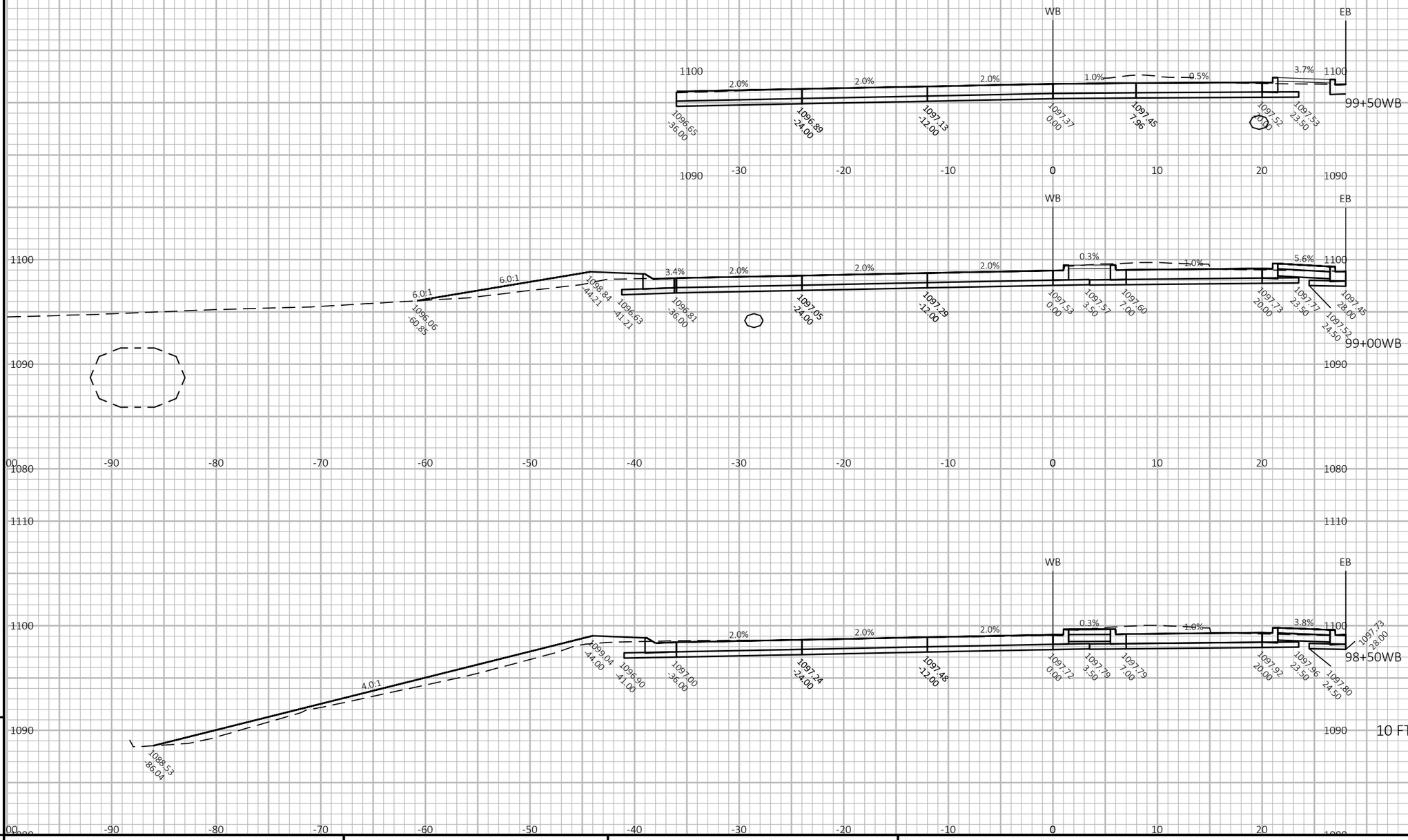
PLOT DATE : 6/16/2021 12:32 PM

PLOT BY : GRULING, ZACHARY P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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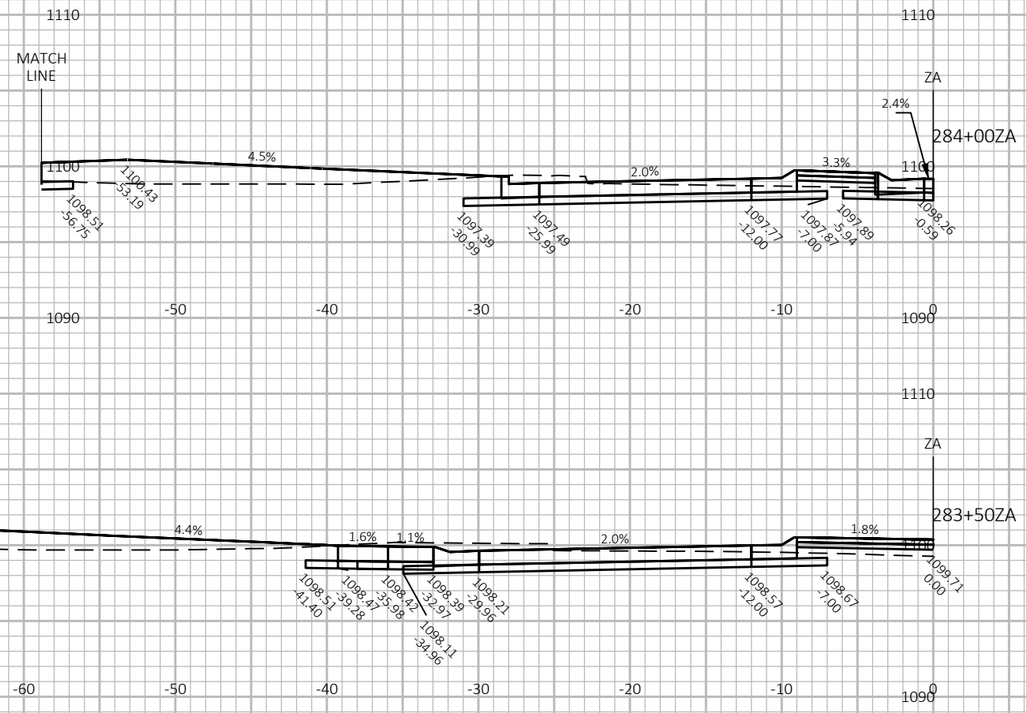
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: USH 10	SHEET 730	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 10WB

PLOT DATE : 6/16/2021 12:32 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

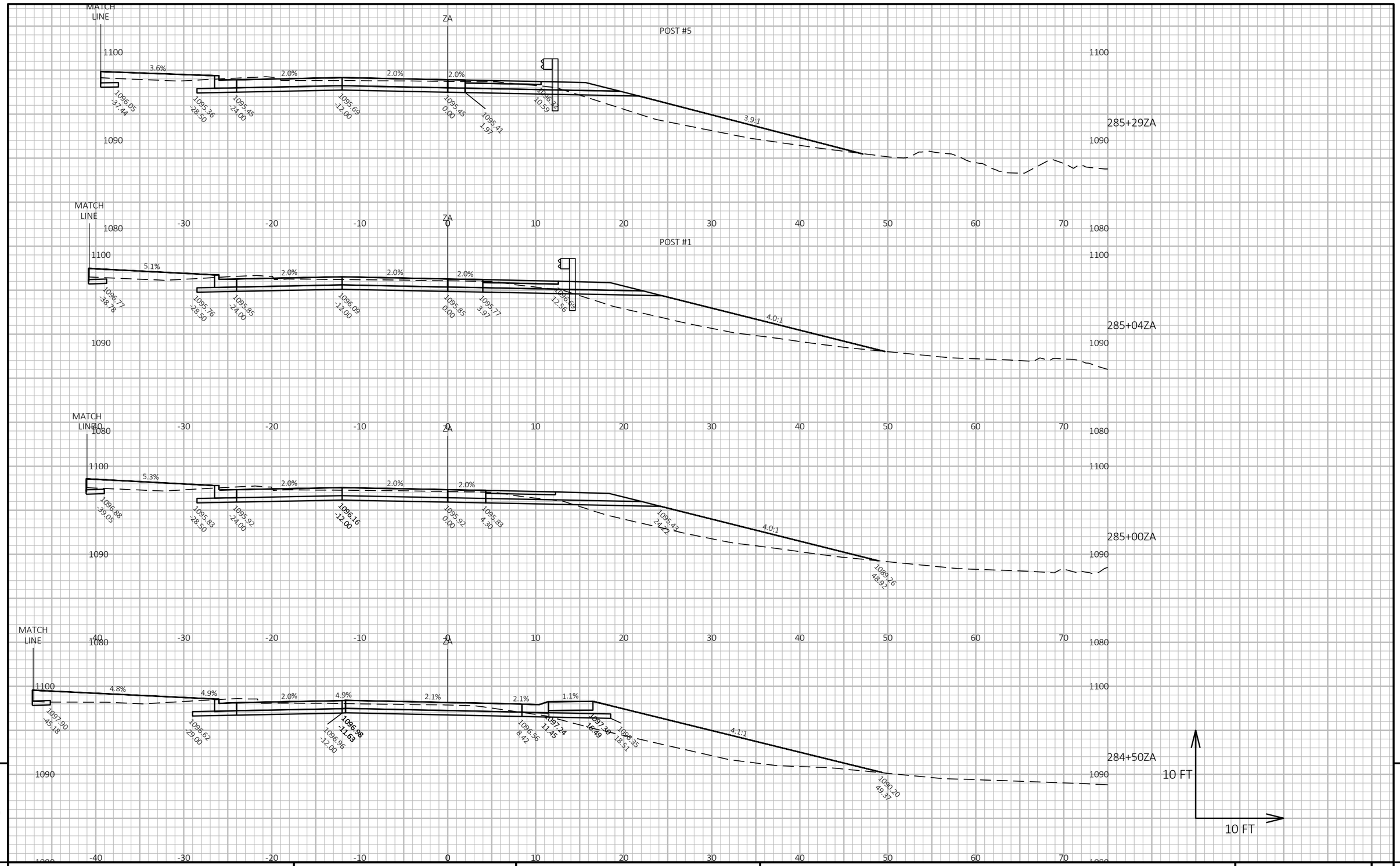


PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZA - IH 39 NB ON RAMP	SHEET 731 E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01ZA

PLOT DATE : 6/16/2021 12:32 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZA - IH 39 NB ON RAMP	SHEET 732	E

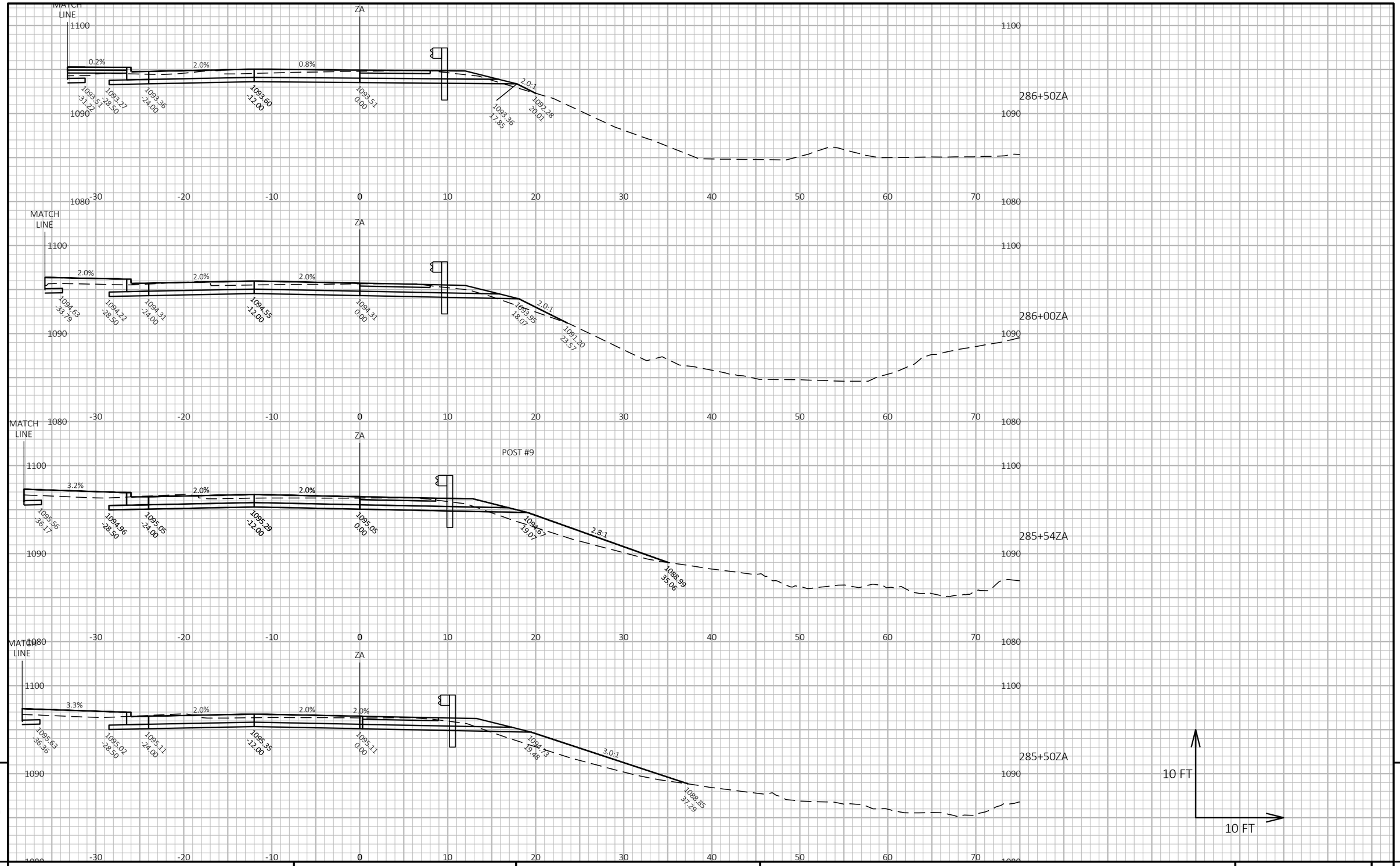
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 02ZA

PLOT DATE : 6/16/2021 12:33 PM

PLOT BY : GRULING, ZACHARY P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZA - IH 39 NB ON RAMP	SHEET 733	E

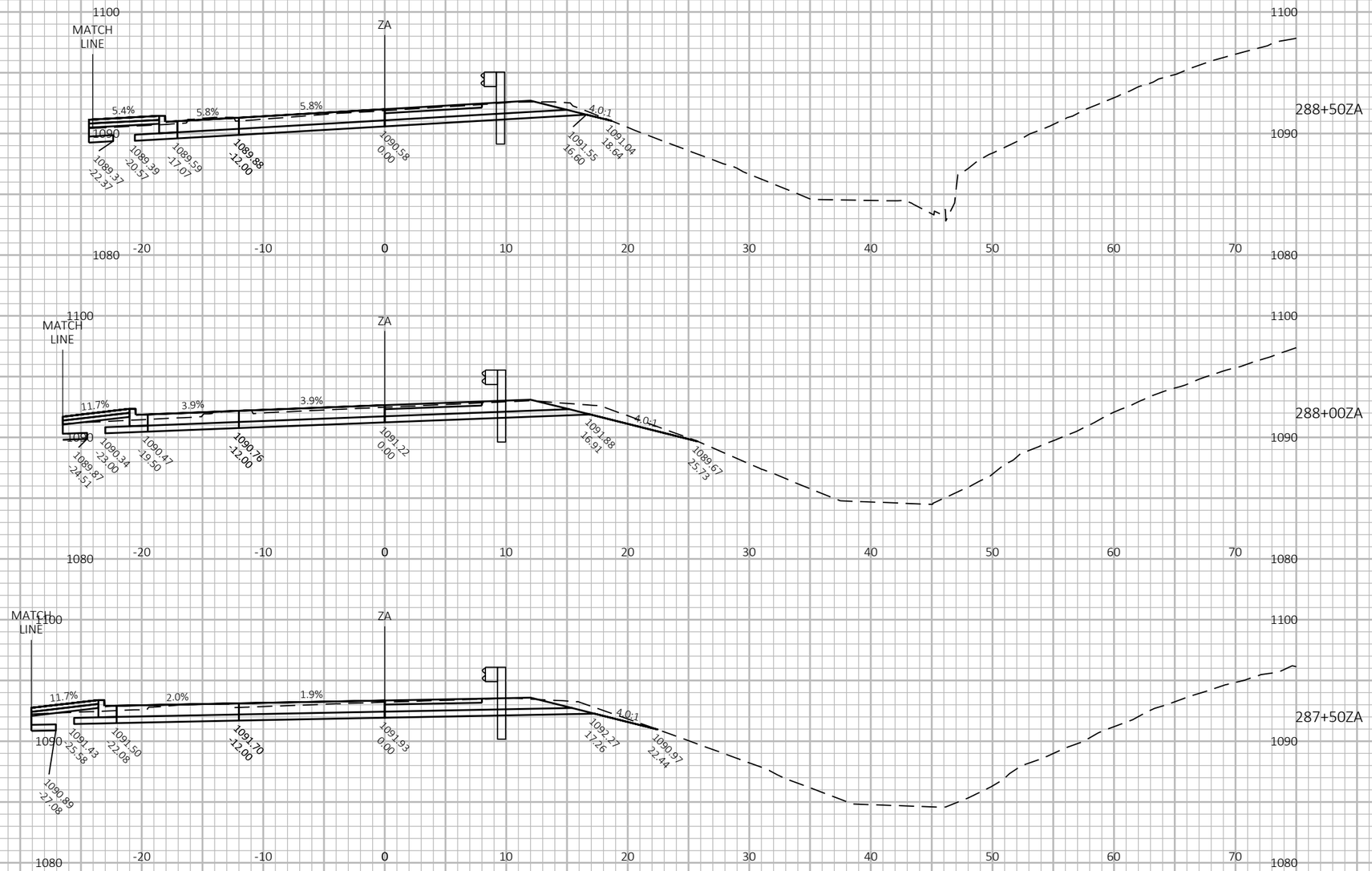
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 03ZA

PLOT DATE : 6/16/2021 12:33 PM

PLOT BY : GRULING, ZACHARY P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

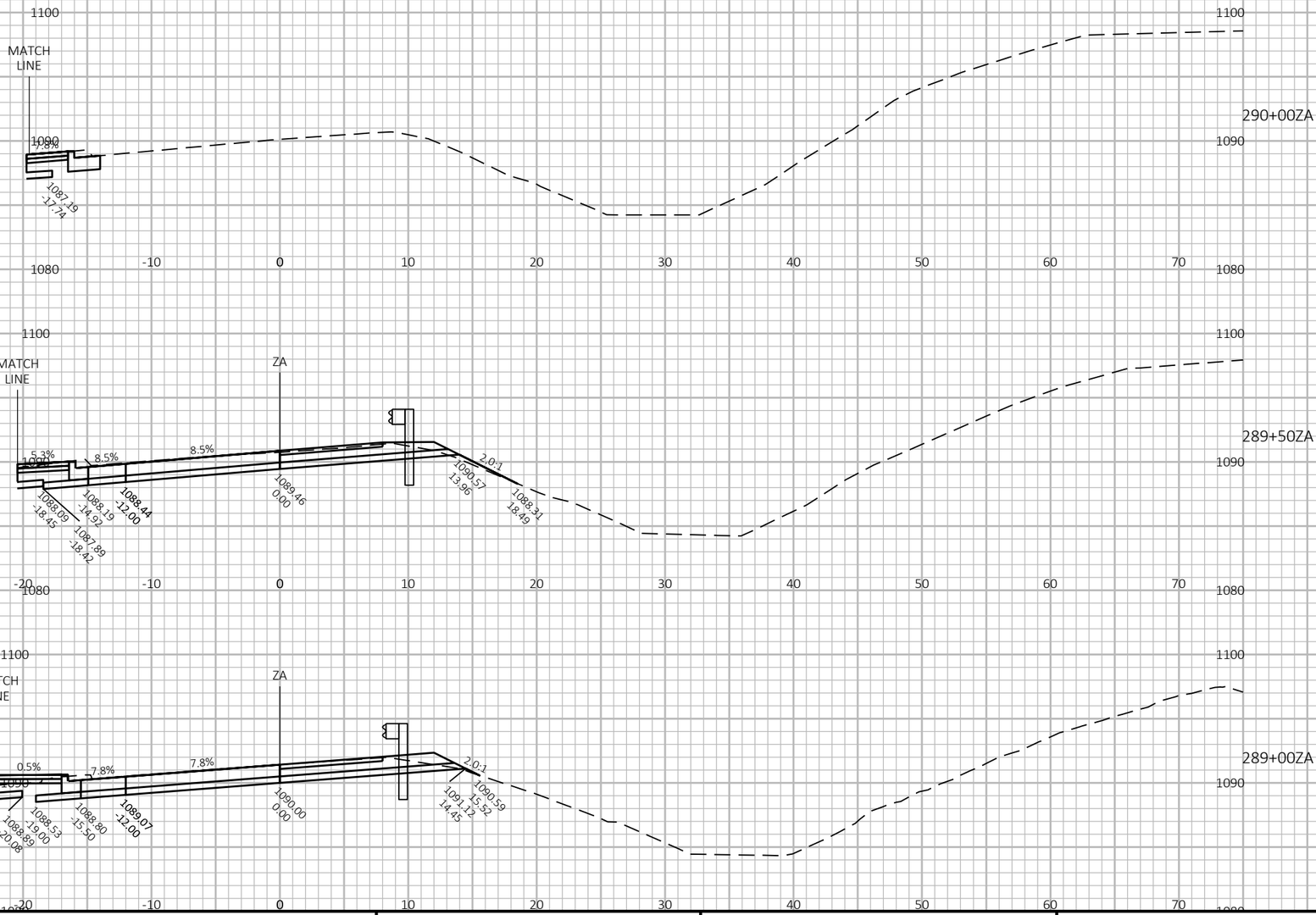


PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZA - IH 39 NB ON RAMP	SHEET 734 E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 04ZA

PLOT DATE : 6/16/2021 12:33 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

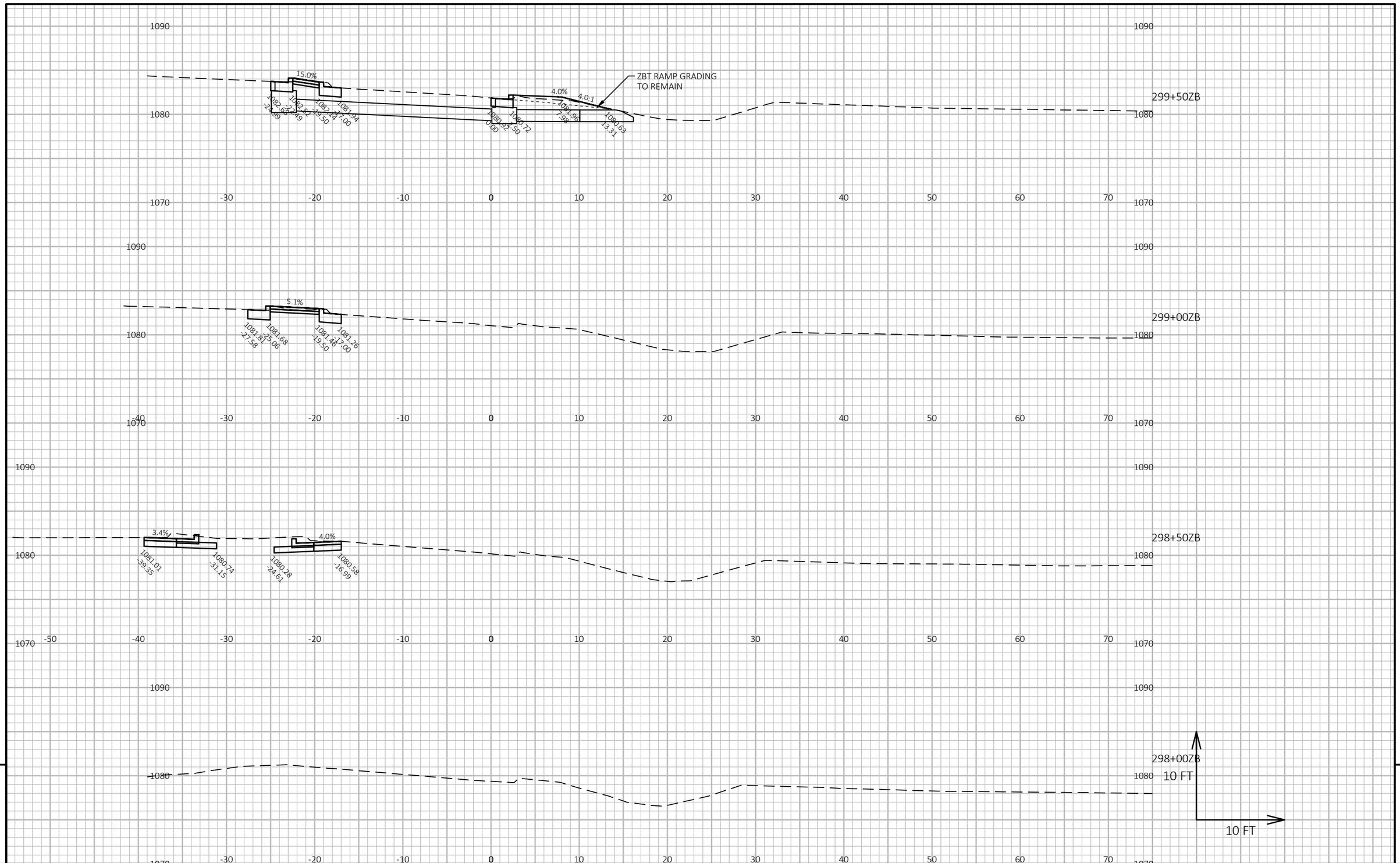


PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZA - IH 39 NB ON RAMP	SHEET 735	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 05ZA

PLOT DATE : 6/16/2021 12:34 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

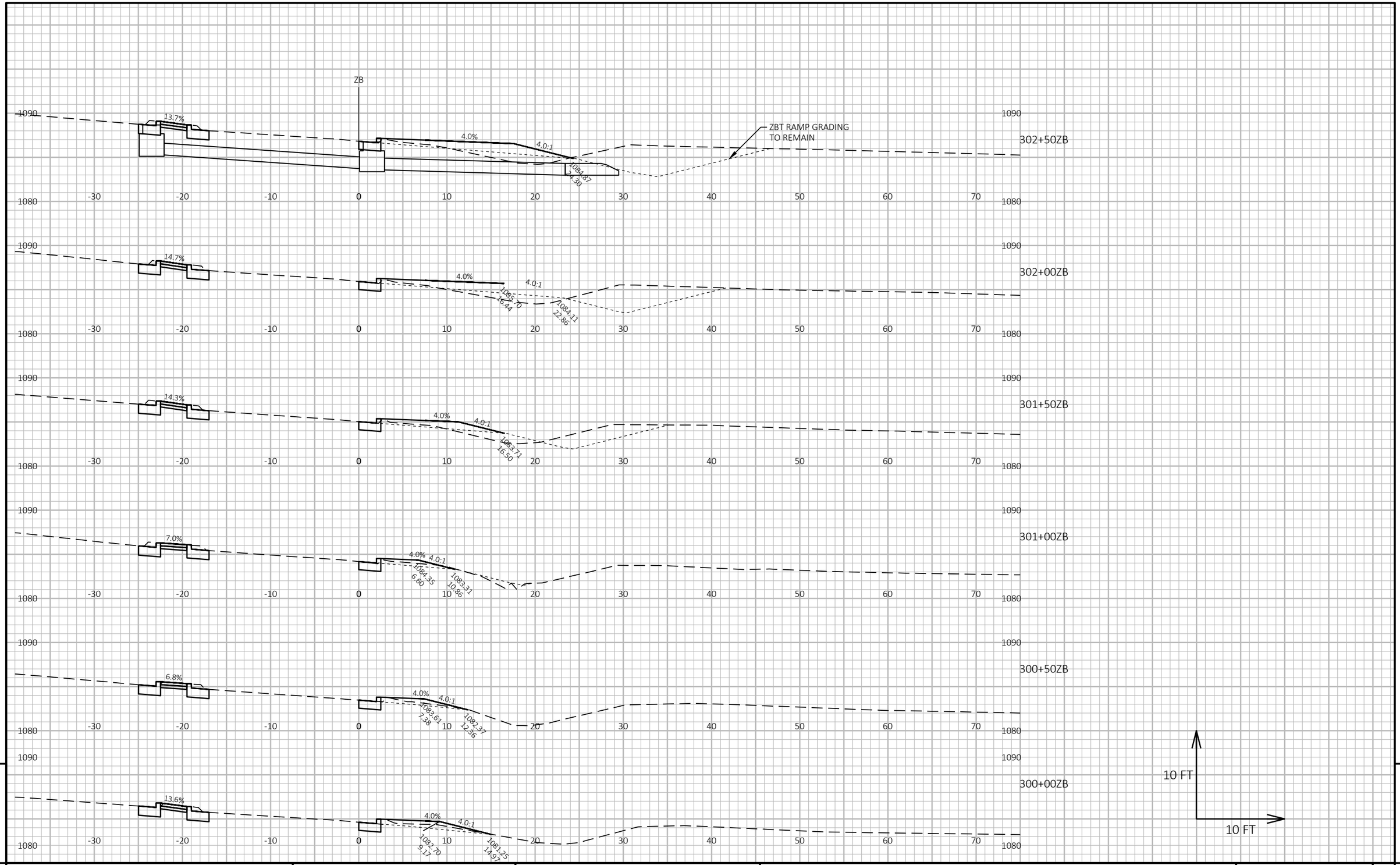


PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZB - IH 39 NB OFF RAMP	SHEET 736	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01ZB

PLOT DATE : 2/9/2021 10:42 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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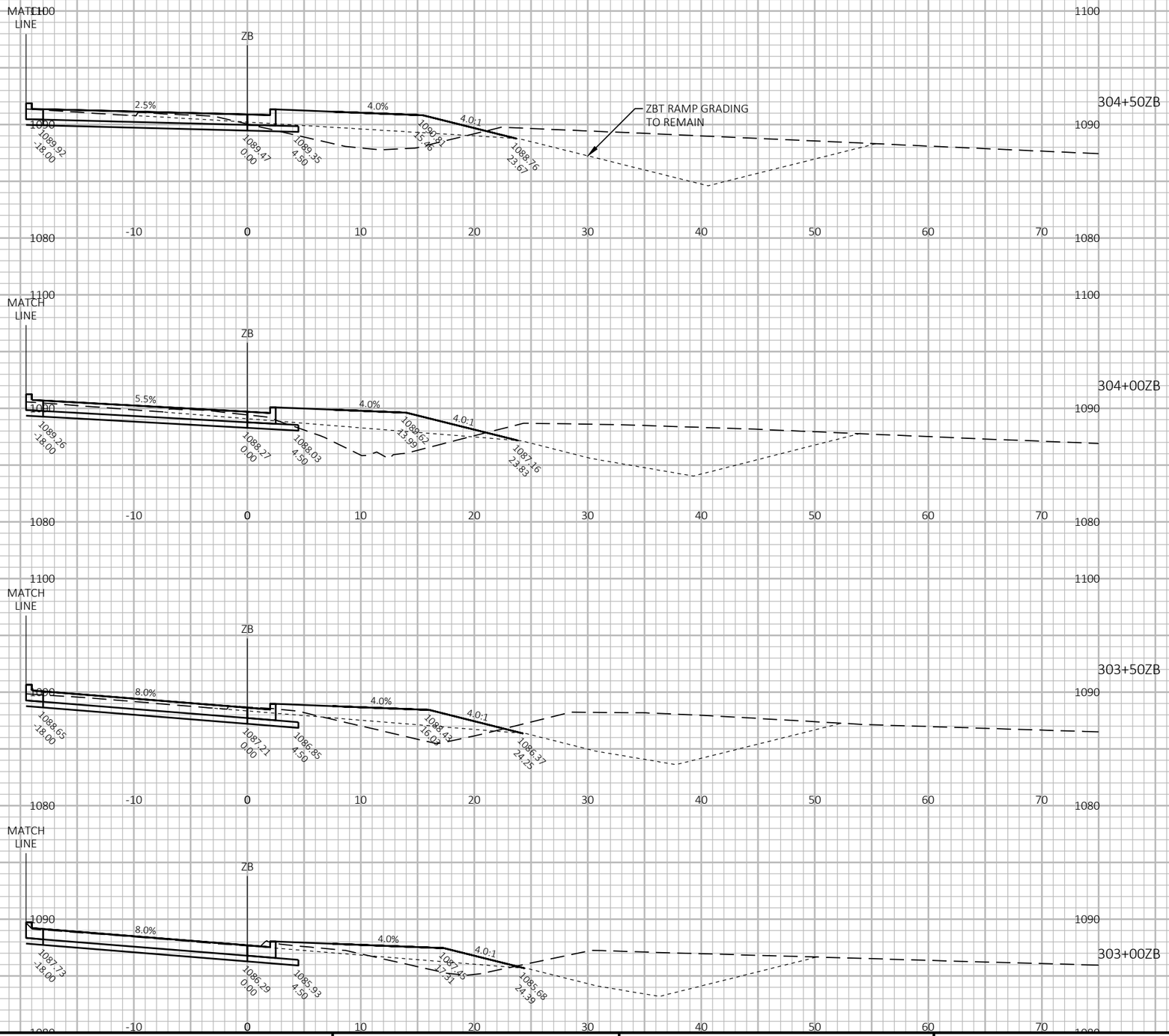
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZB - IH 39 NB OFF RAMP	SHEET 737	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 02ZB

PLOT DATE : 2/9/2021 10:42 AM PLOT BY : GRULING, ZACHARY P PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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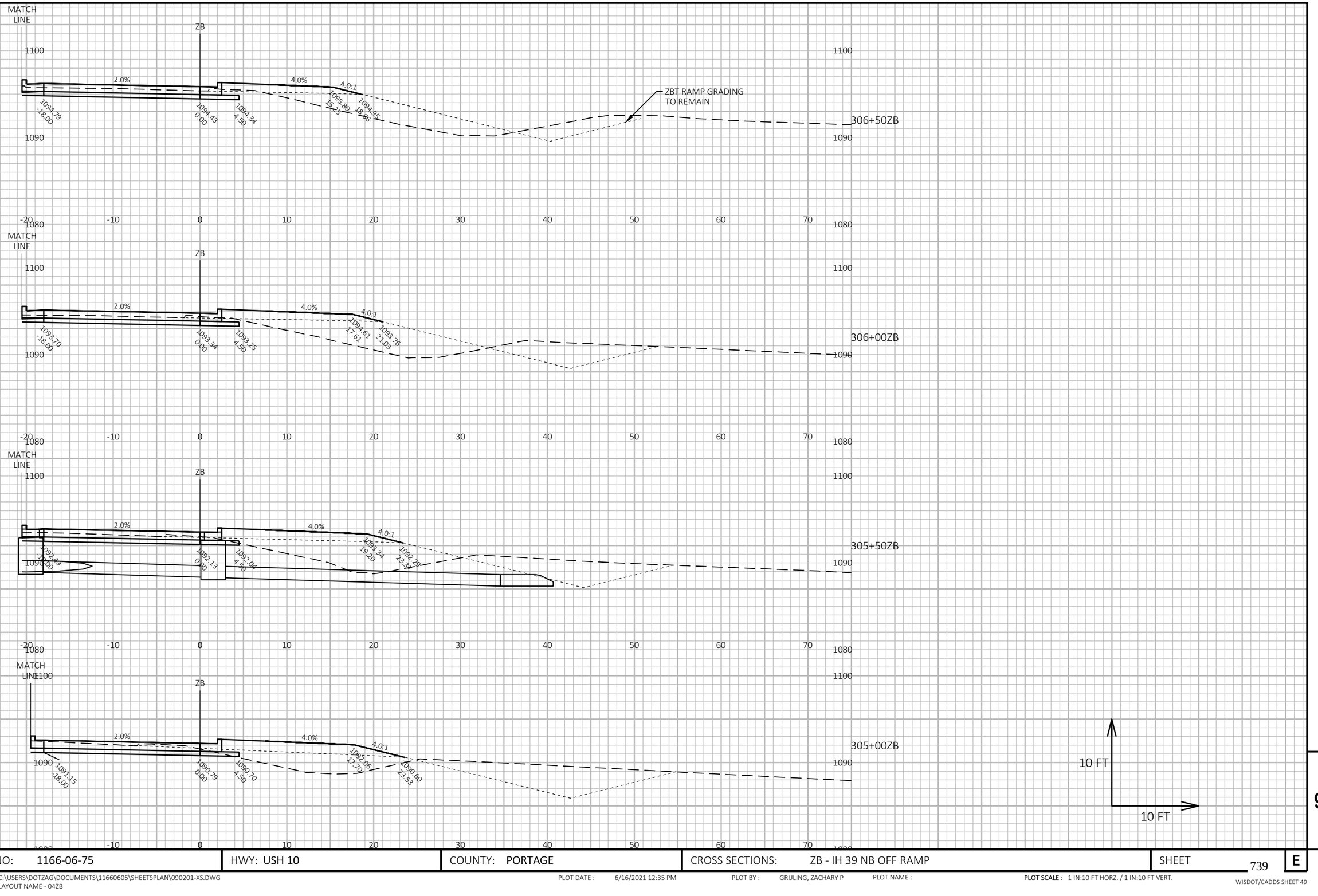
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZB - IH 39 NB OFF RAMP	SHEET 738	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 03ZB

PLOT DATE : 6/16/2021 12:35 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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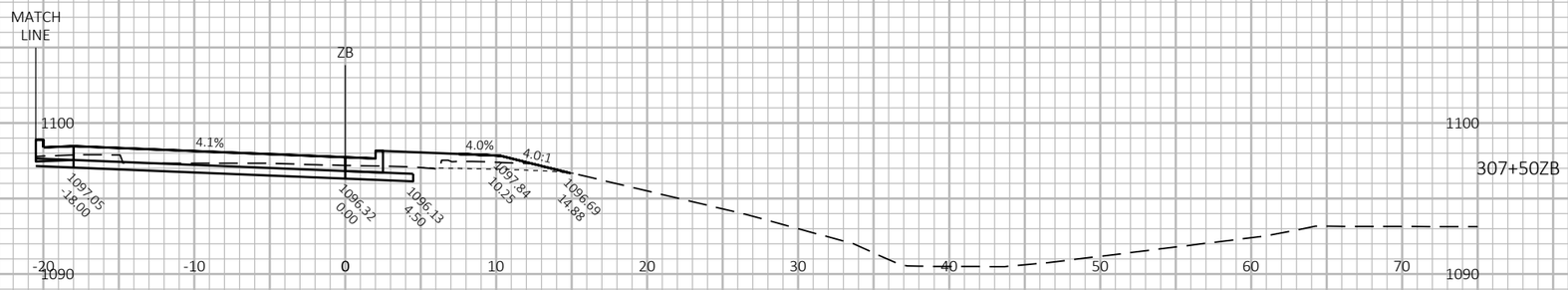
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZB - IH 39 NB OFF RAMP	SHEET 739	E

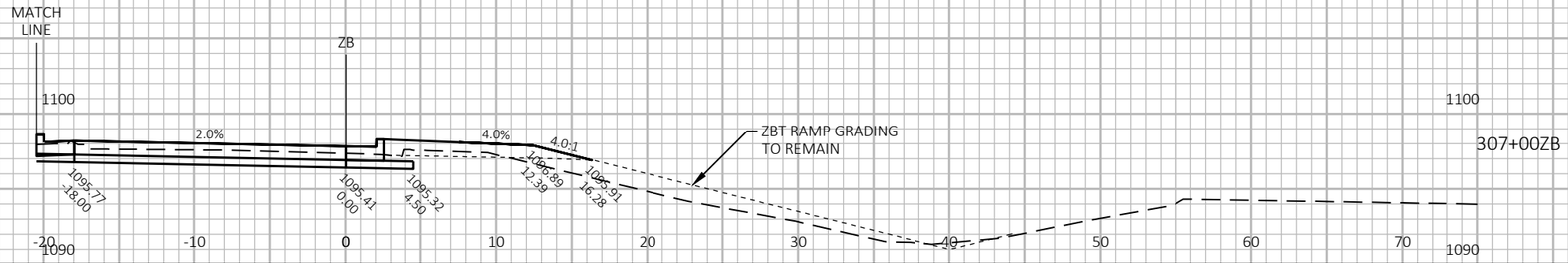
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 04ZB

PLOT DATE : 6/16/2021 12:35 PM PLOT BY : GRULING, ZACHARY P PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



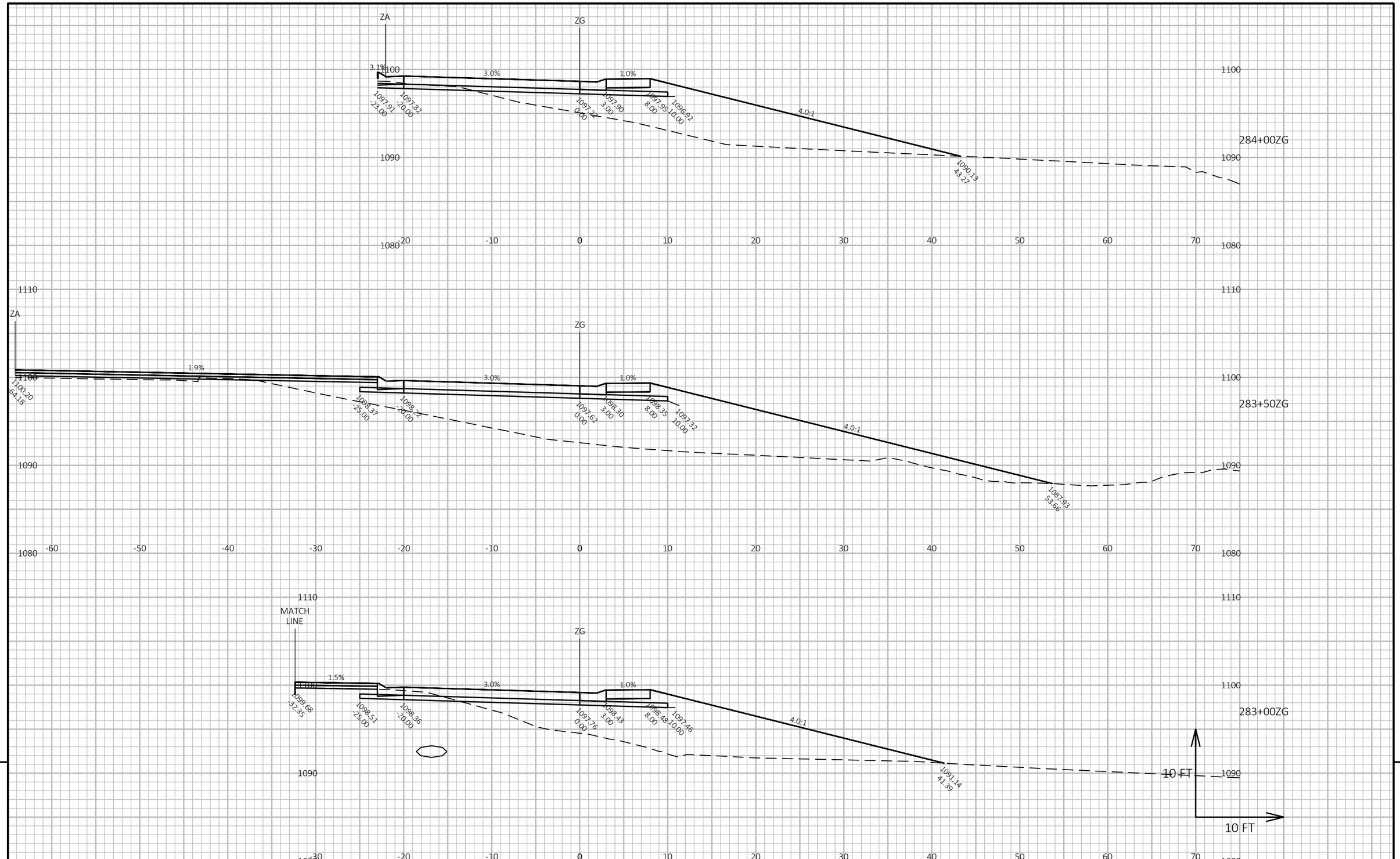


PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZB - IH 39 NB OFF RAMP	SHEET 740	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 05ZB

PLOT DATE : 6/16/2021 12:36 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZG - USH 10 TO IH 39 NB	SHEET 741	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01ZG

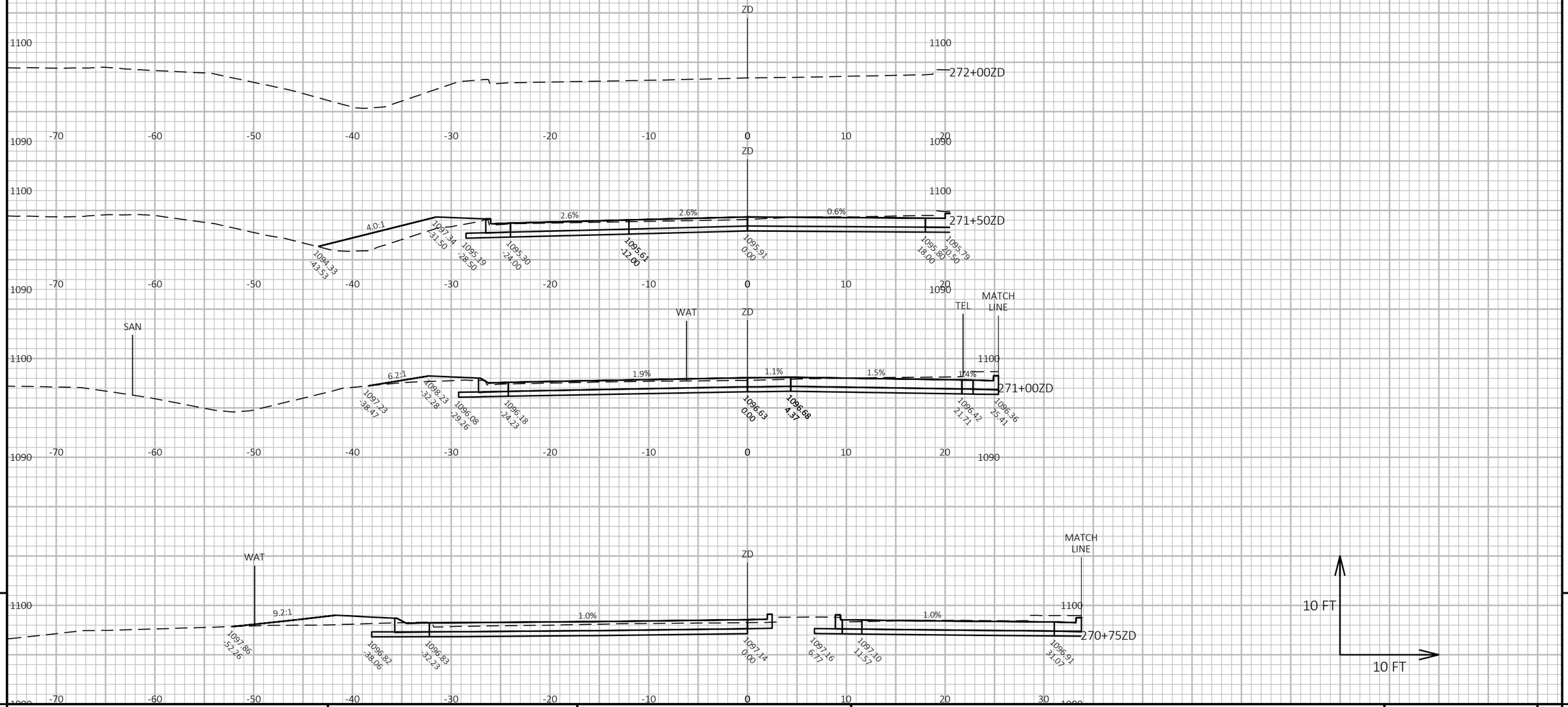
PLOT DATE : 6/16/2021 12:34 PM

PLOT BY : GRULING, ZACHARY P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZD - IH 39 SB OFF RAMP	SHEET 742	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01ZD

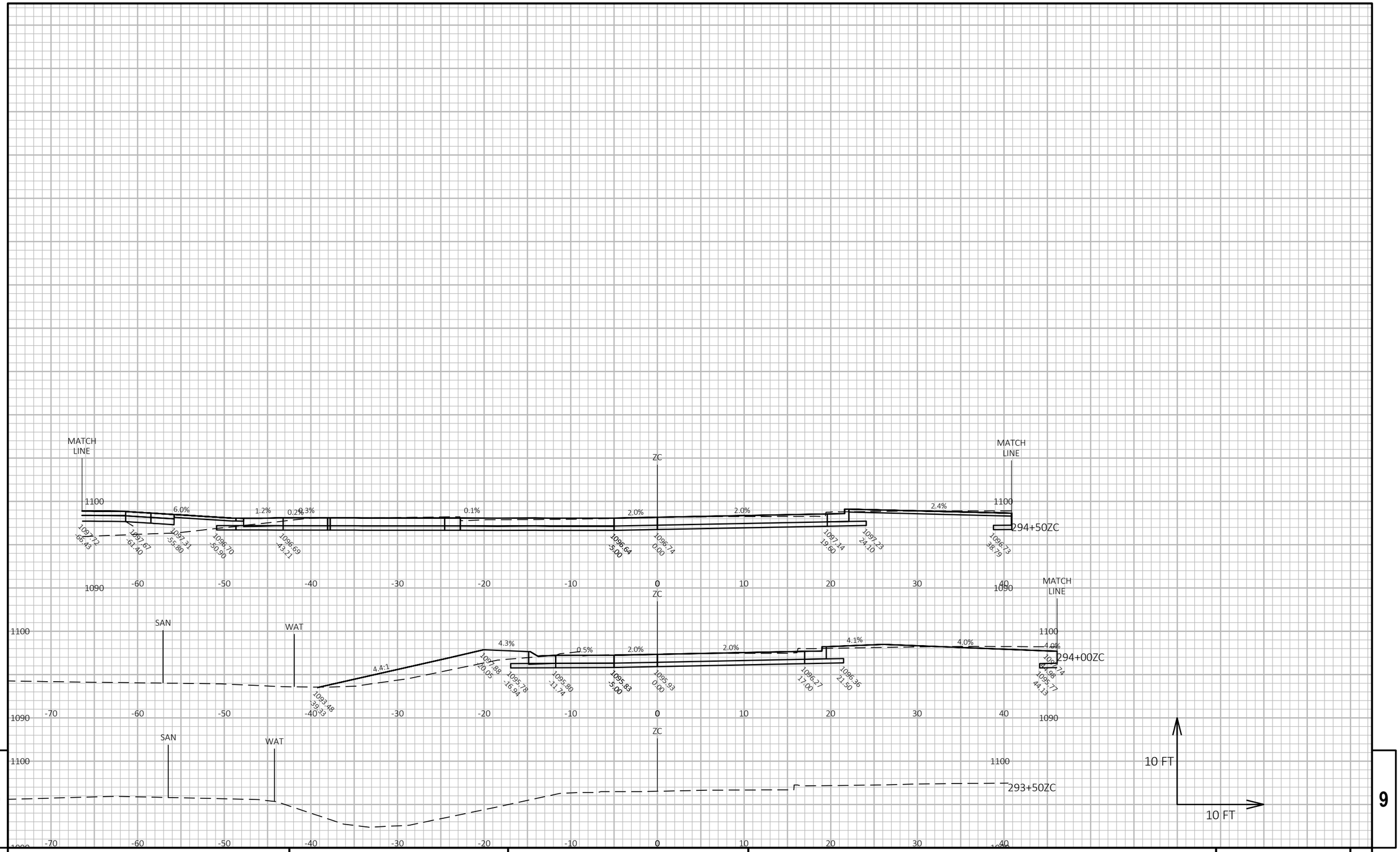
PLOT DATE : 6/16/2021 12:36 PM

PLOT BY : GRULING, ZACHARY P

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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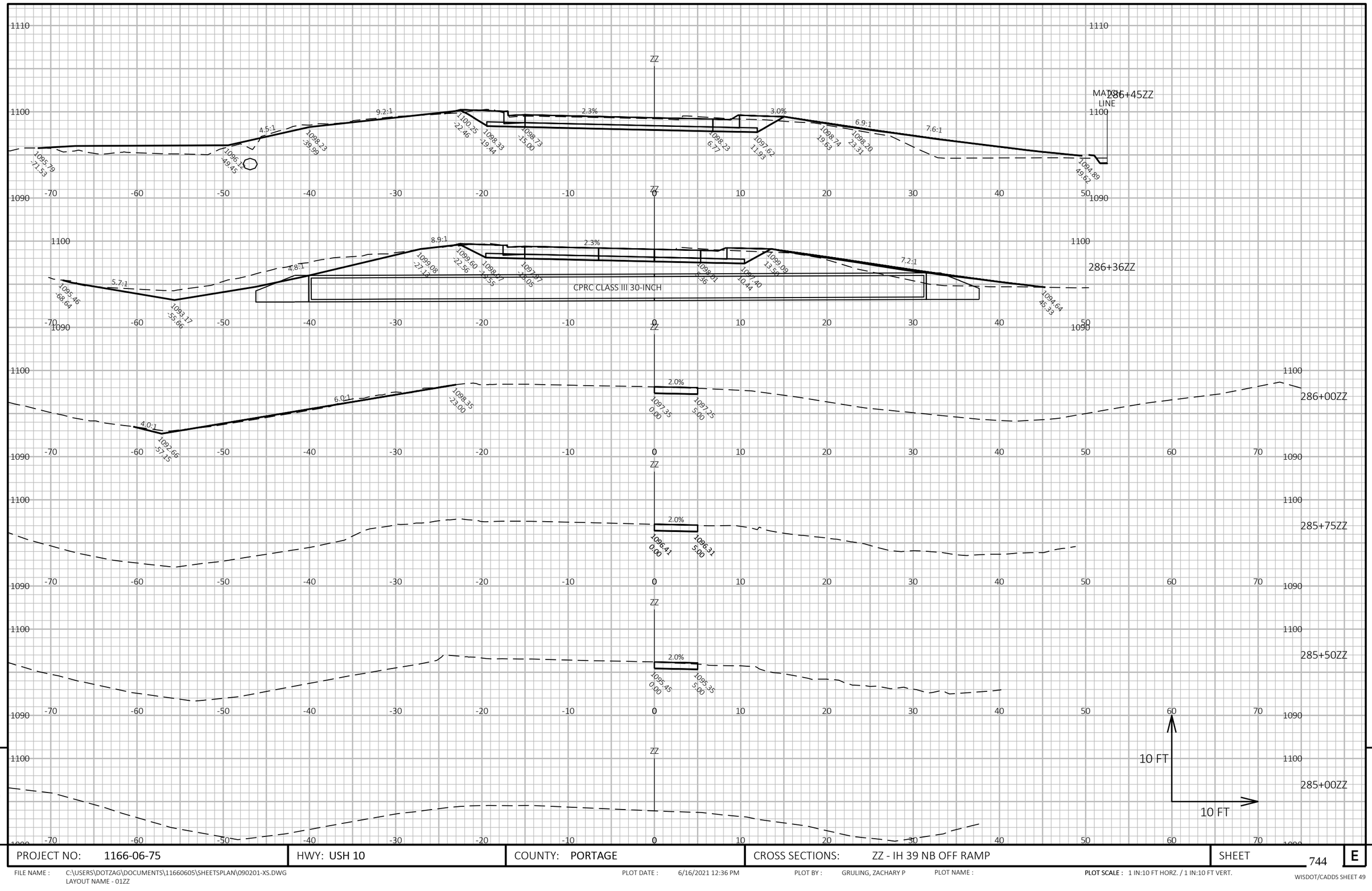
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZC - IH 39 SB ON RAMP	SHEET 743	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01ZC

PLOT DATE : 6/16/2021 12:37 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



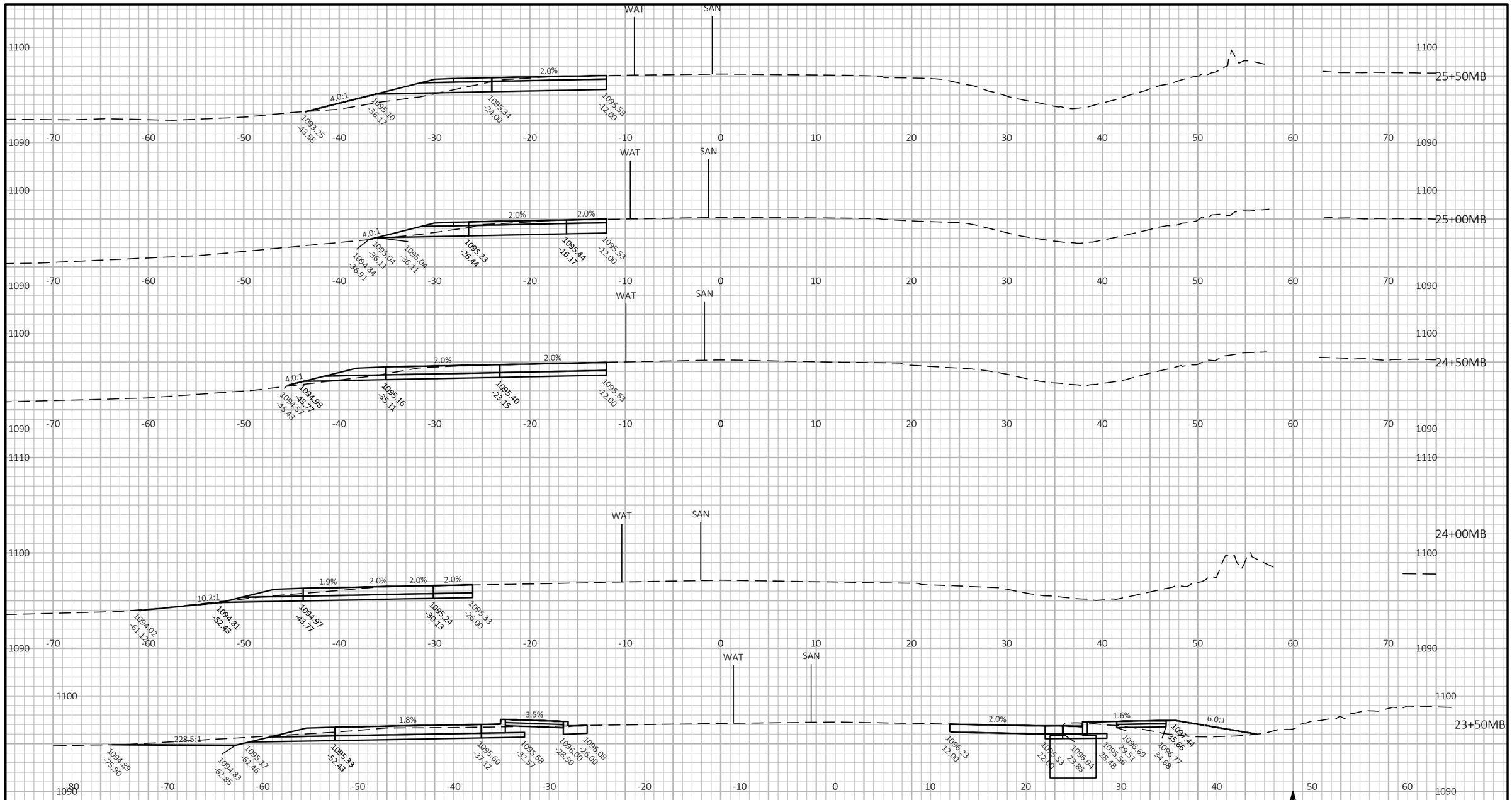
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZZ - IH 39 NB OFF RAMP	SHEET 744	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01ZZ

PLOT DATE : 6/16/2021 12:36 PM PLOT BY : GRULING, ZACHARY P PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: MAPLE BLUFF	SHEET 745 E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01MB

PLOT DATE : 6/16/2021 12:37 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

27+50MB

27+00MB

26+50MB

26+00MB

SAN

2.0%

4.0:1

1092.36 -49.85

1095.54 -27.13

1095.82 -13.27

1095.85 -12.00

1092.07 -43.57

1095.56 -29.62

1095.81 -17.43

1095.91 -12.00

1090.25 -53.00

1095.10 -33.78

1095.35 -21.60

1095.54 -12.00

10 FT

10 FT

9

9

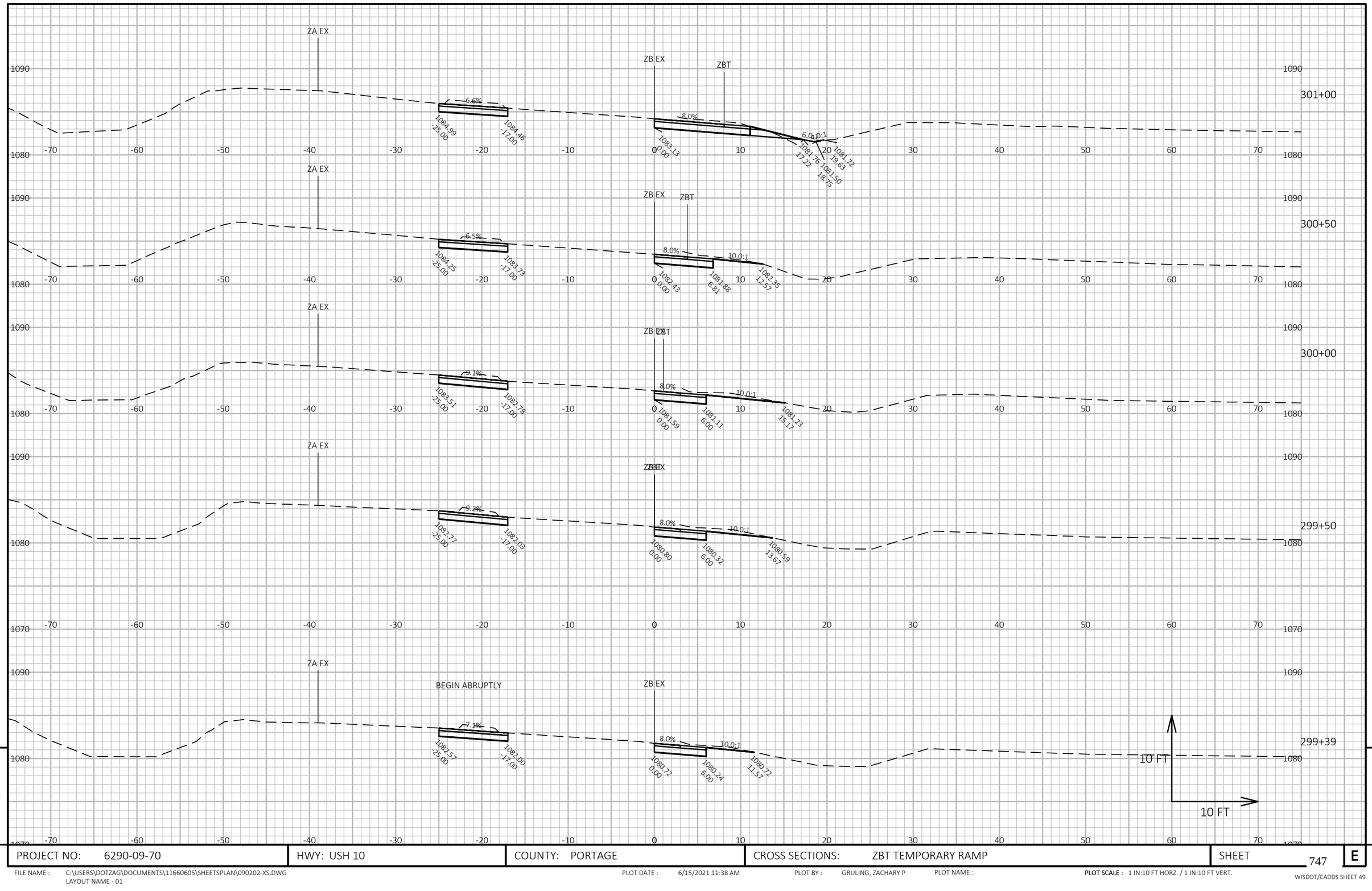
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: MAPLE BLUFF	SHEET 746	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 02MB

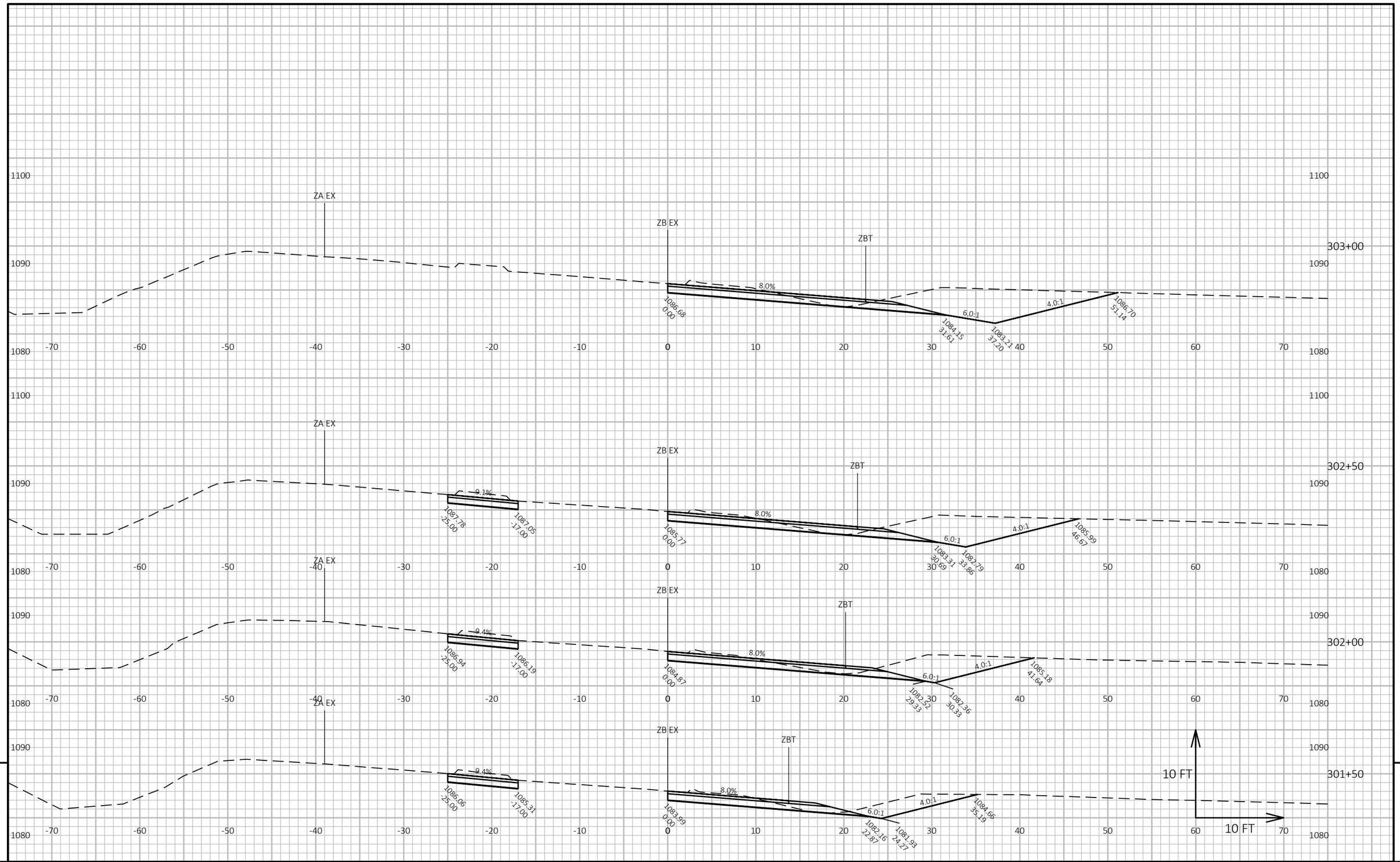
PLOT DATE : 6/16/2021 12:37 PM PLOT BY : GRULING, ZACHARY P PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZBT TEMPORARY RAMP	SHEET 747	E

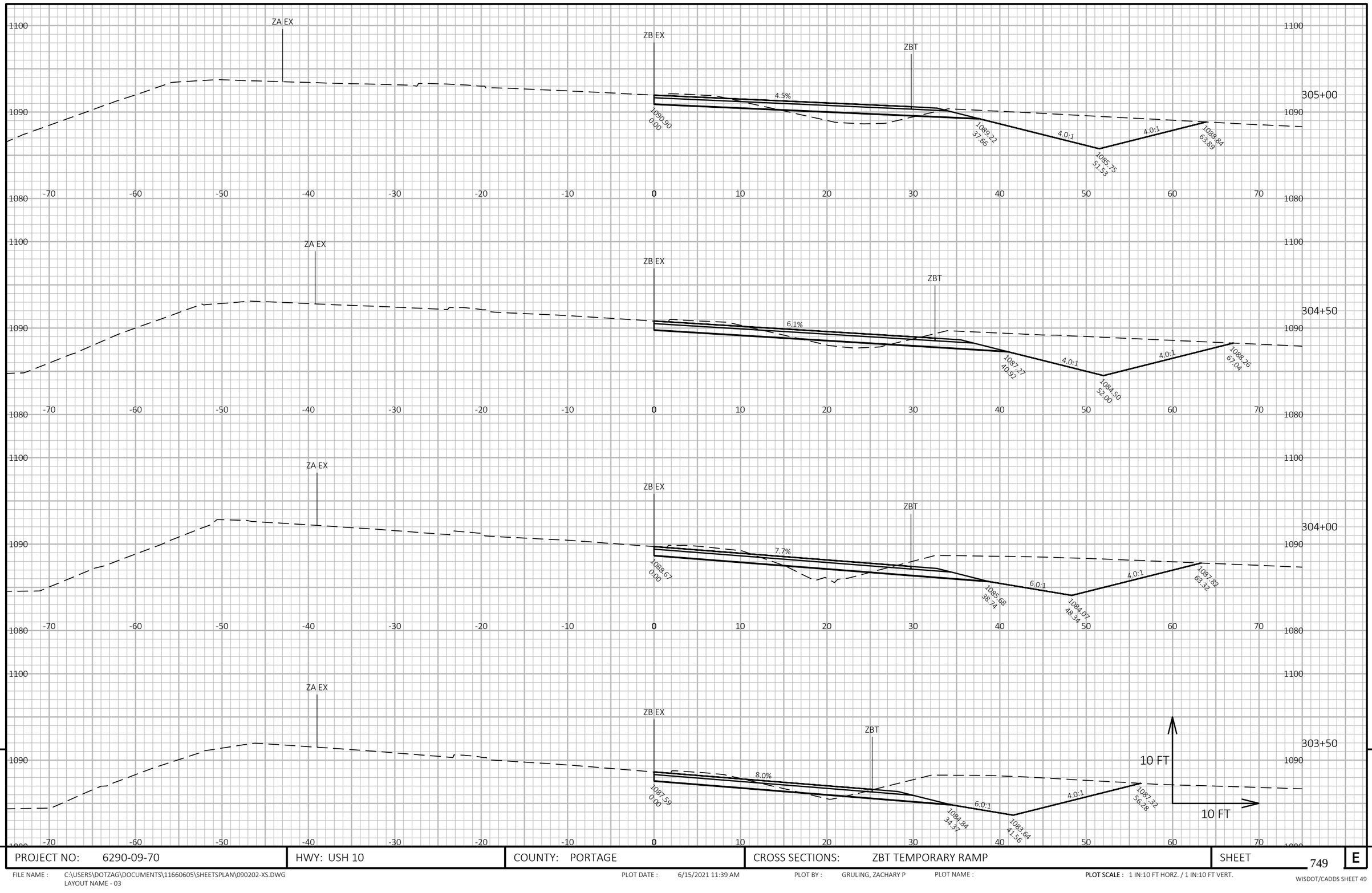


PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZBT TEMPORARY RAMP	SHEET 748	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 02

PLOT DATE : 6/15/2021 11:39 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

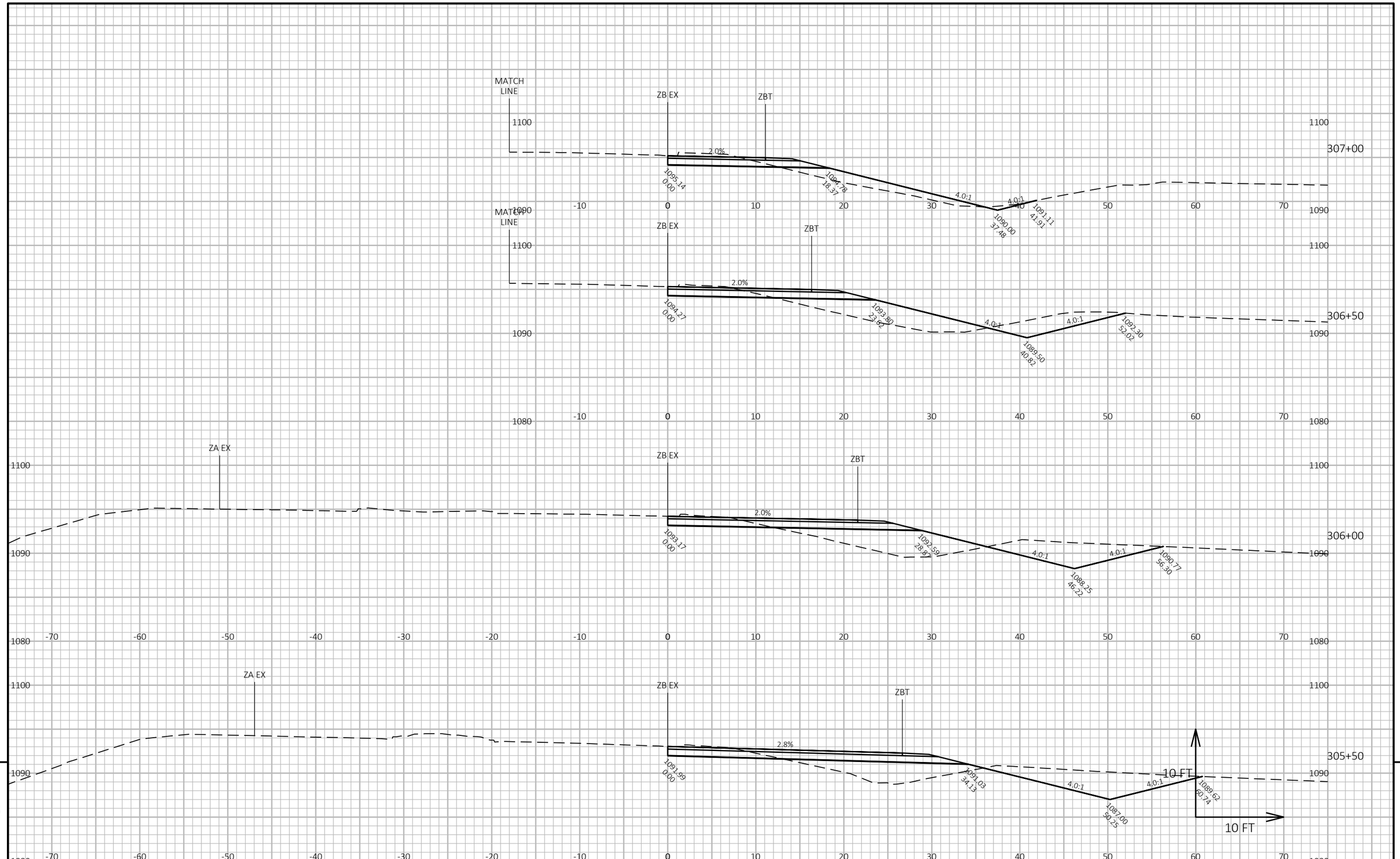


PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZBT TEMPORARY RAMP	SHEET 749	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 03

PLOT DATE : 6/15/2021 11:39 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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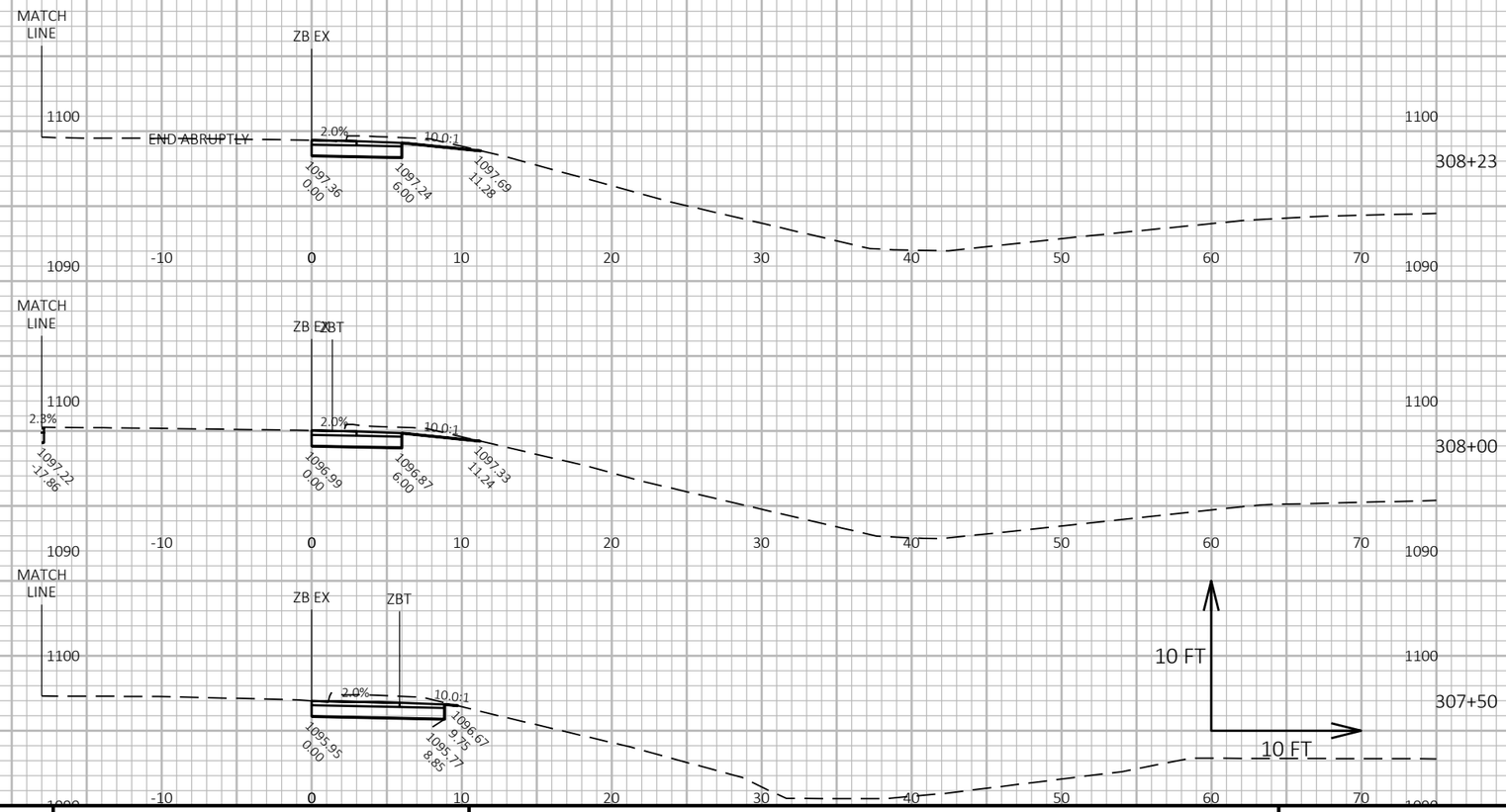
PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZBT TEMPORARY RAMP	SHEET 750	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 04

PLOT DATE : 6/15/2021 11:39 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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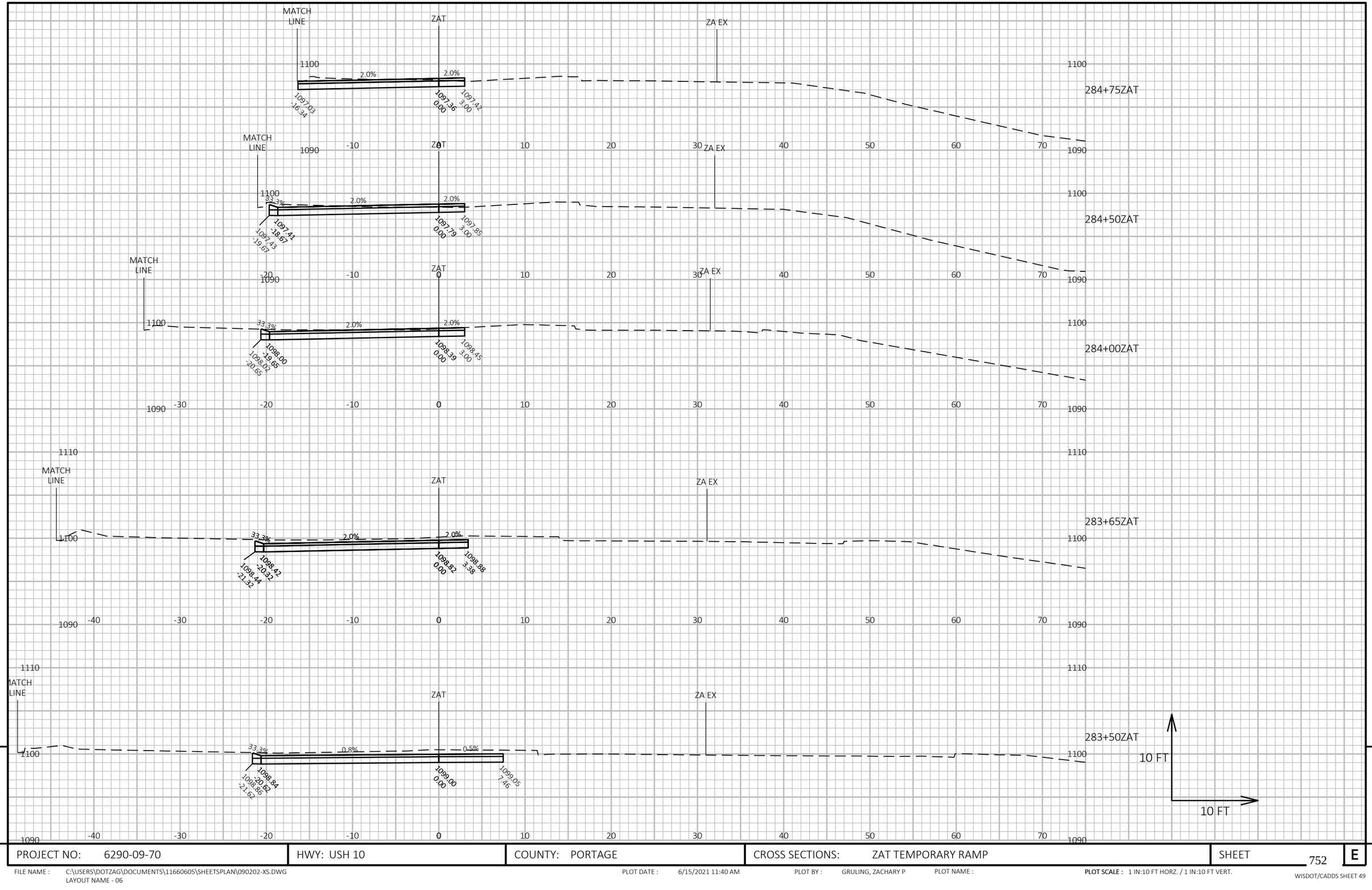
PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZBT TEMPORARY RAMP	SHEET 751	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 05

PLOT DATE : 6/15/2021 11:40 AM PLOT BY : GRULING, ZACHARY P PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

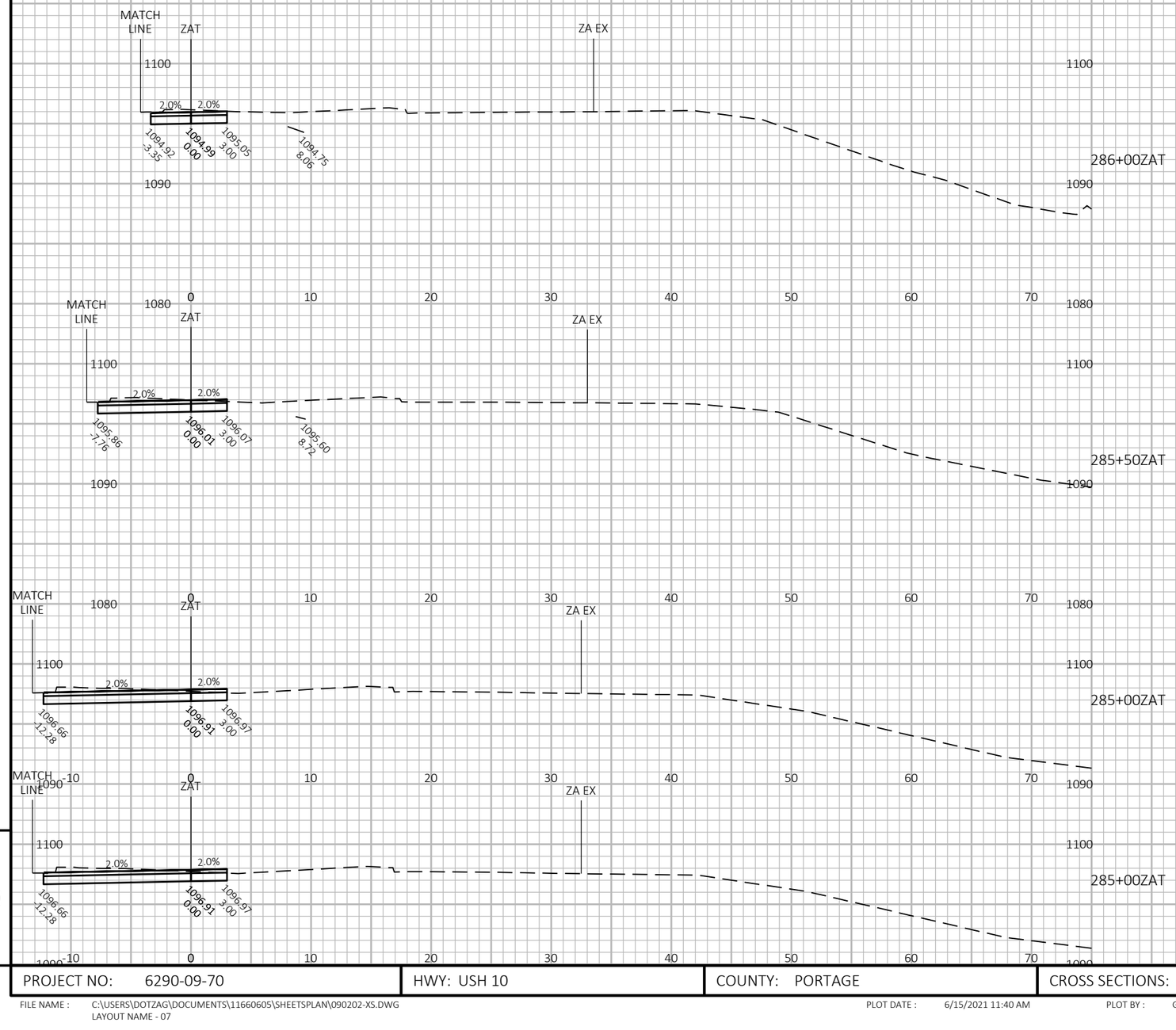


PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZAT TEMPORARY RAMP	SHEET 752	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 06

PLOT DATE : 6/15/2021 11:40 AM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



10 FT

10 FT

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PROJECT NO: 6290-09-70	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: ZAT TEMPORARY RAMP	SHEET 753	E

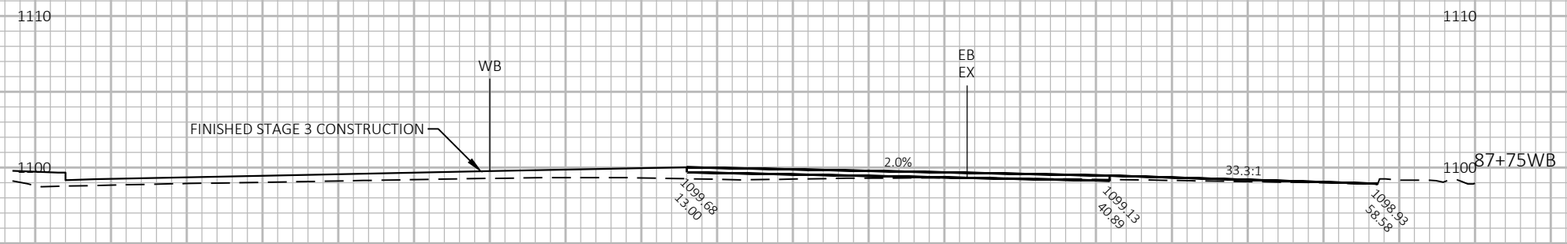
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 07

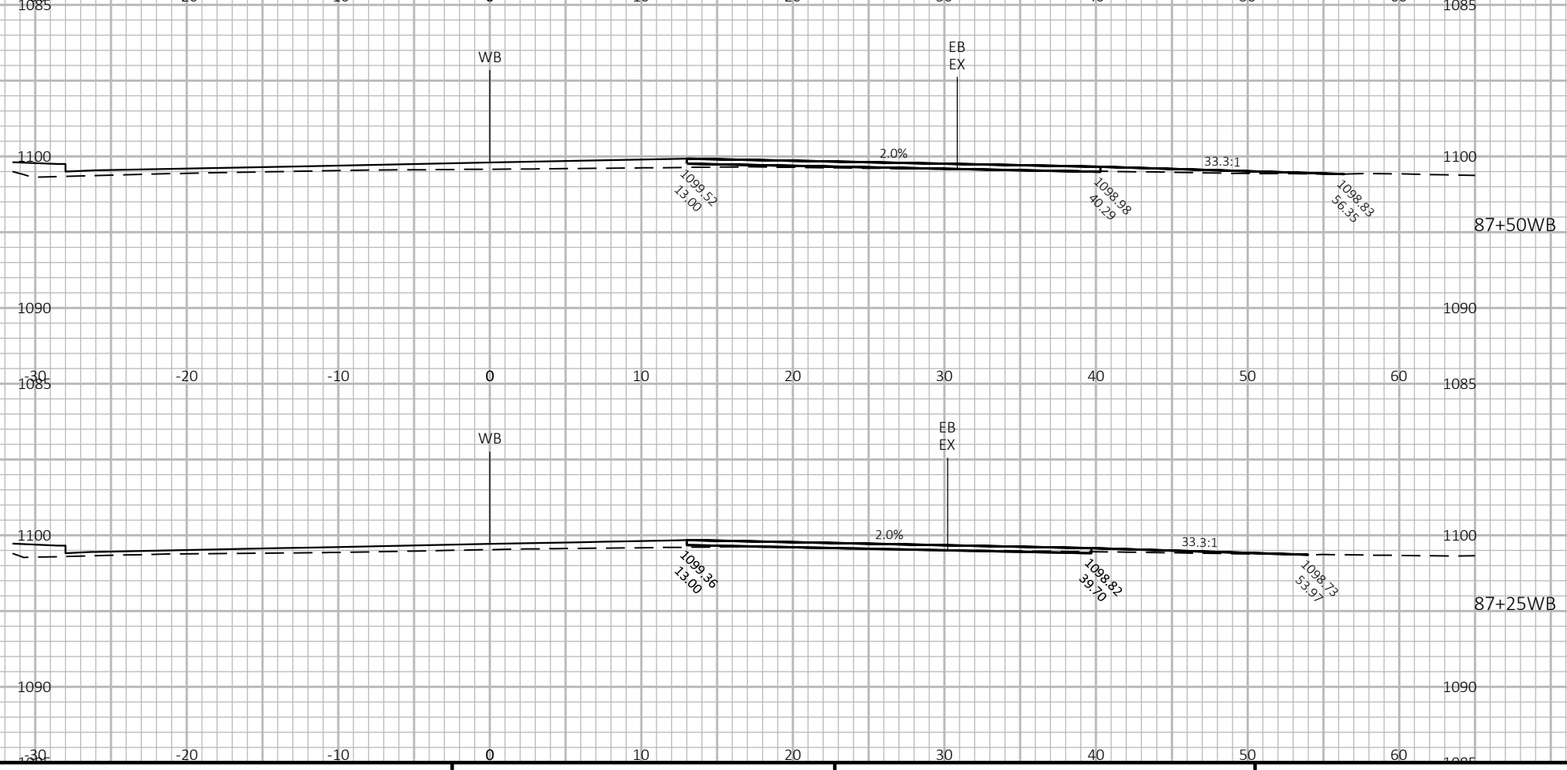
PLOT DATE : 6/15/2021 11:40 AM PLOT BY : GRULING, ZACHARY P PLOT NAME :

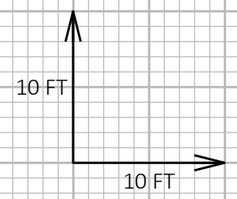
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

CROSS SECTIONS FOR INFORMATION PURPOSES ONLY







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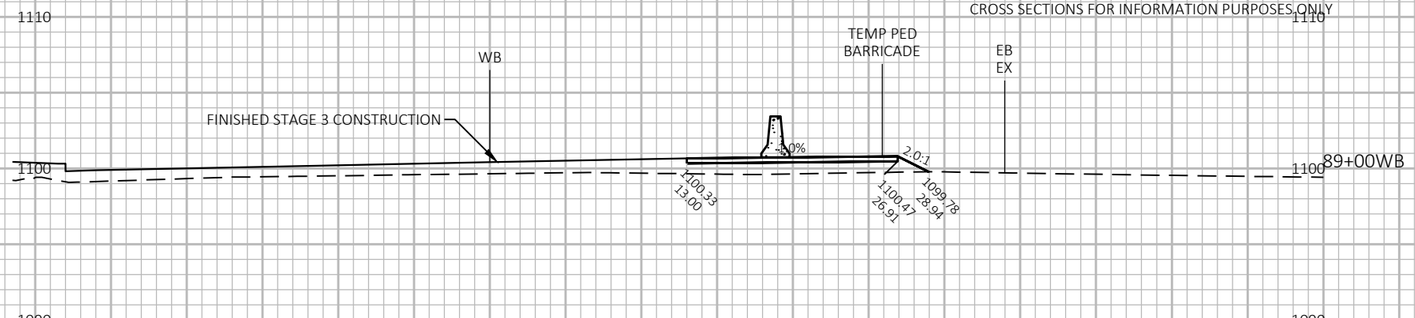
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: STAGE 4 TEMPORARY PAVEMENT	SHEET 754	E

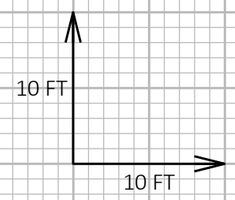
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 01

PLOT DATE : 11/24/2020 12:57 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

CROSS SECTIONS FOR INFORMATION PURPOSES ONLY





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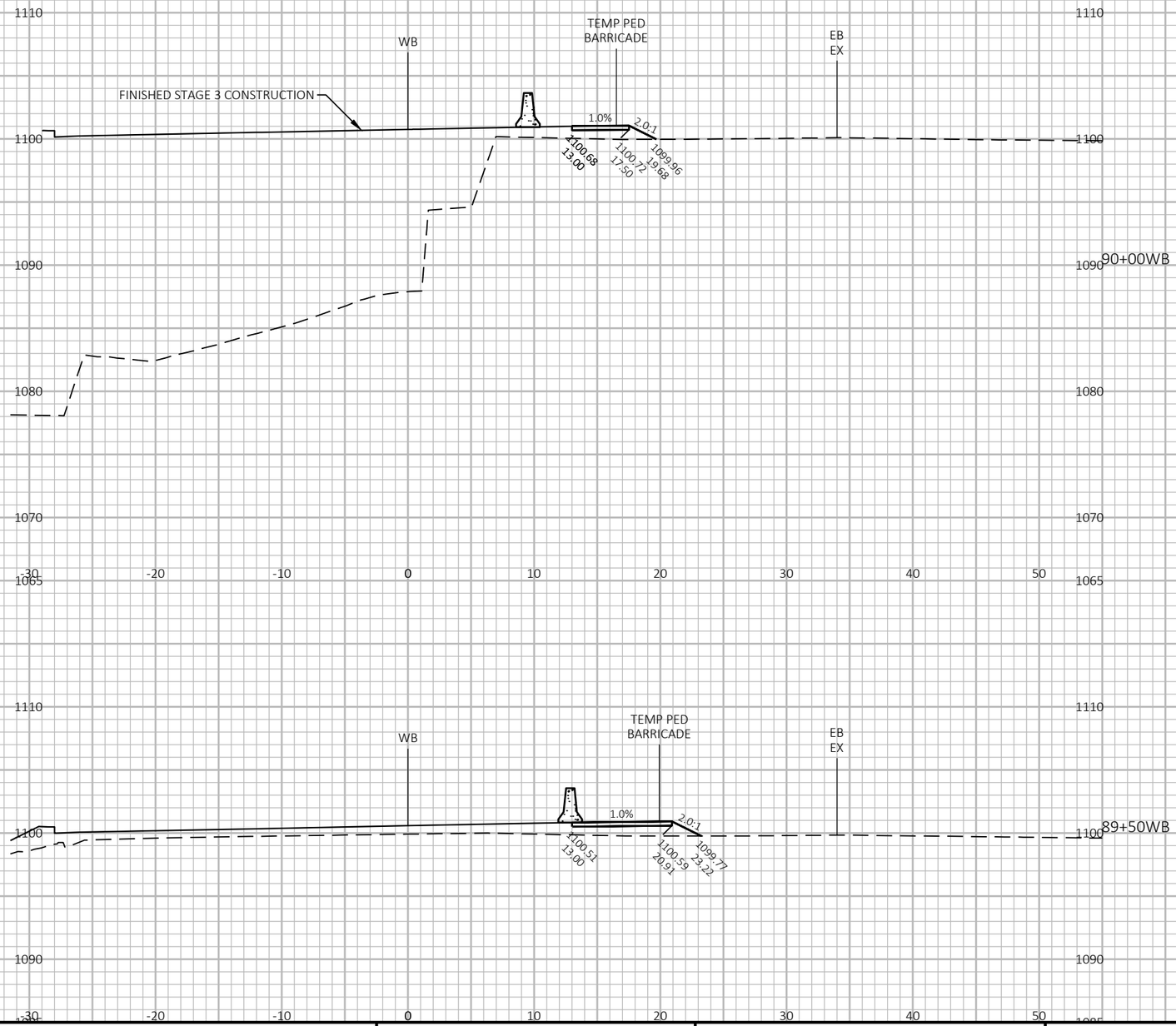
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: STAGE 4 TEMPORARY PAVEMENT	SHEET 755	E

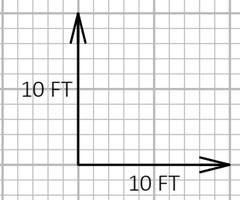
FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 02

PLOT DATE : 11/24/2020 12:57 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

CROSS SECTIONS FOR INFORMATION PURPOSES ONLY





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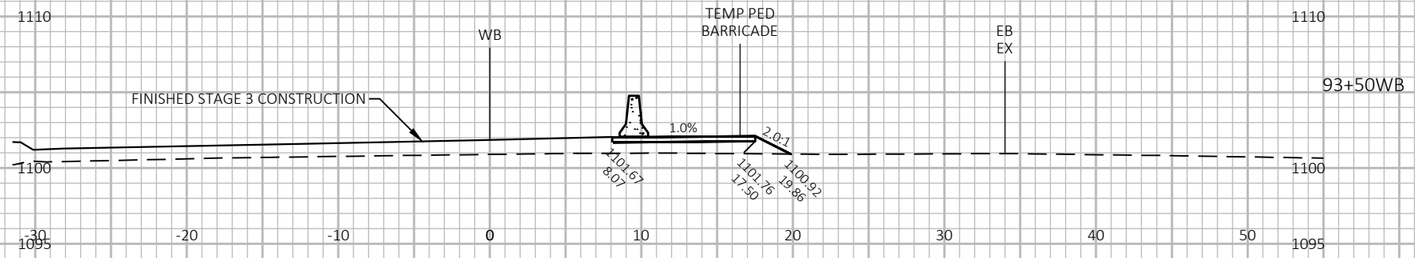
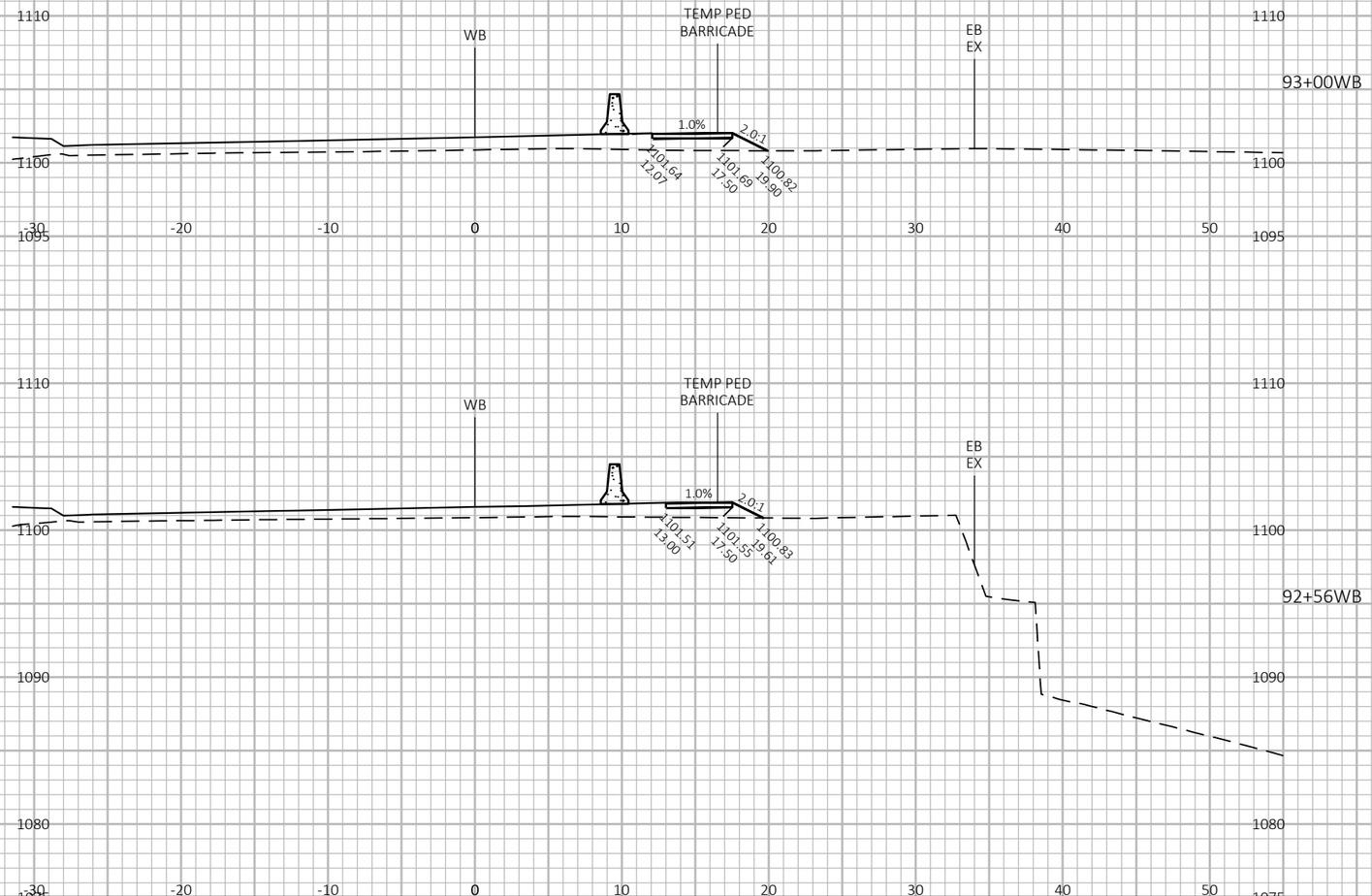
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: STAGE 4 TEMPORARY PAVEMENT	SHEET 756	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 03

PLOT DATE : 11/24/2020 12:57 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

CROSS SECTIONS FOR INFORMATION PURPOSES ONLY





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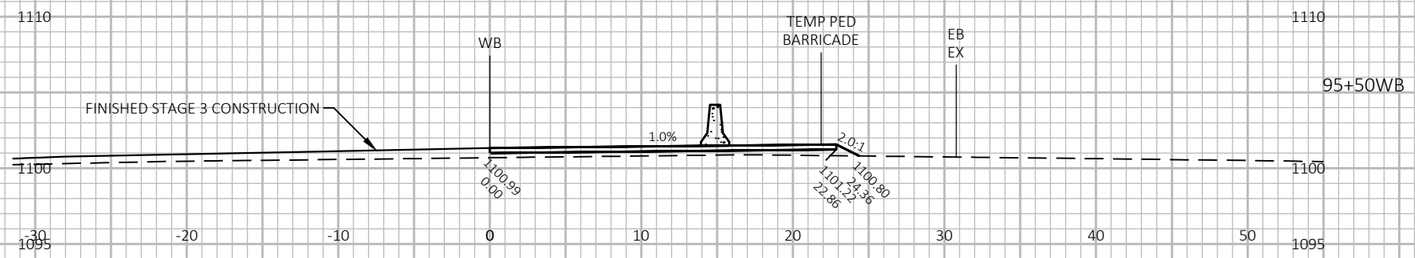
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: STAGE 4 TEMPORARY PAVEMENT	SHEET 757	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 04

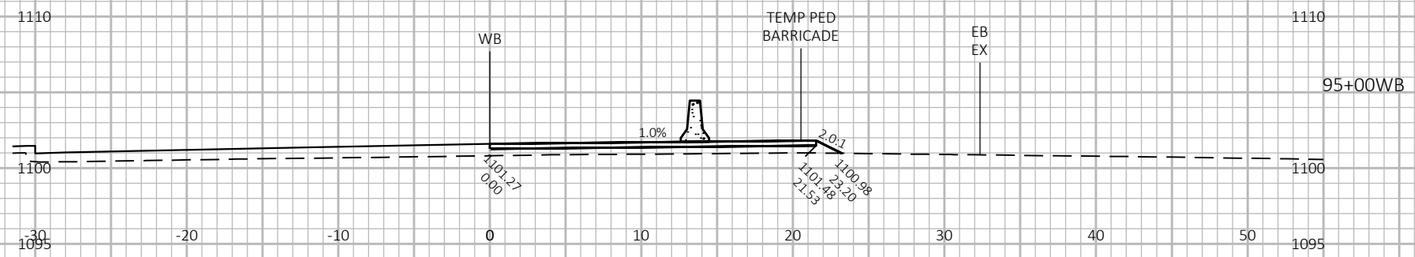
PLOT DATE : 11/24/2020 12:57 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

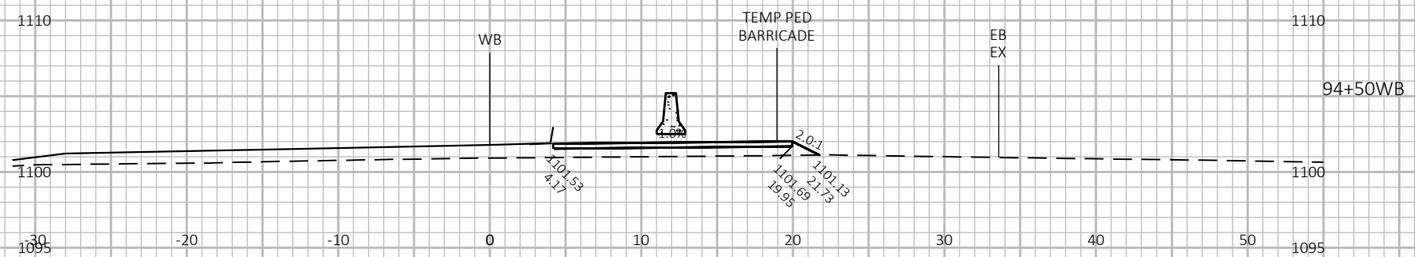
CROSS SECTIONS FOR INFORMATION PURPOSES ONLY



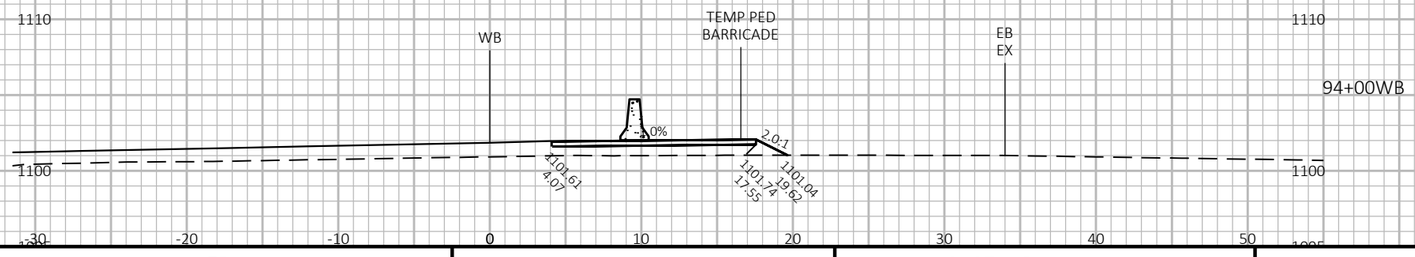
95+50WB



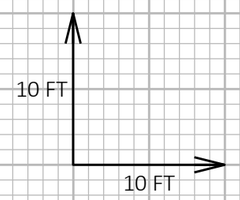
95+00WB



94+50WB



94+00WB



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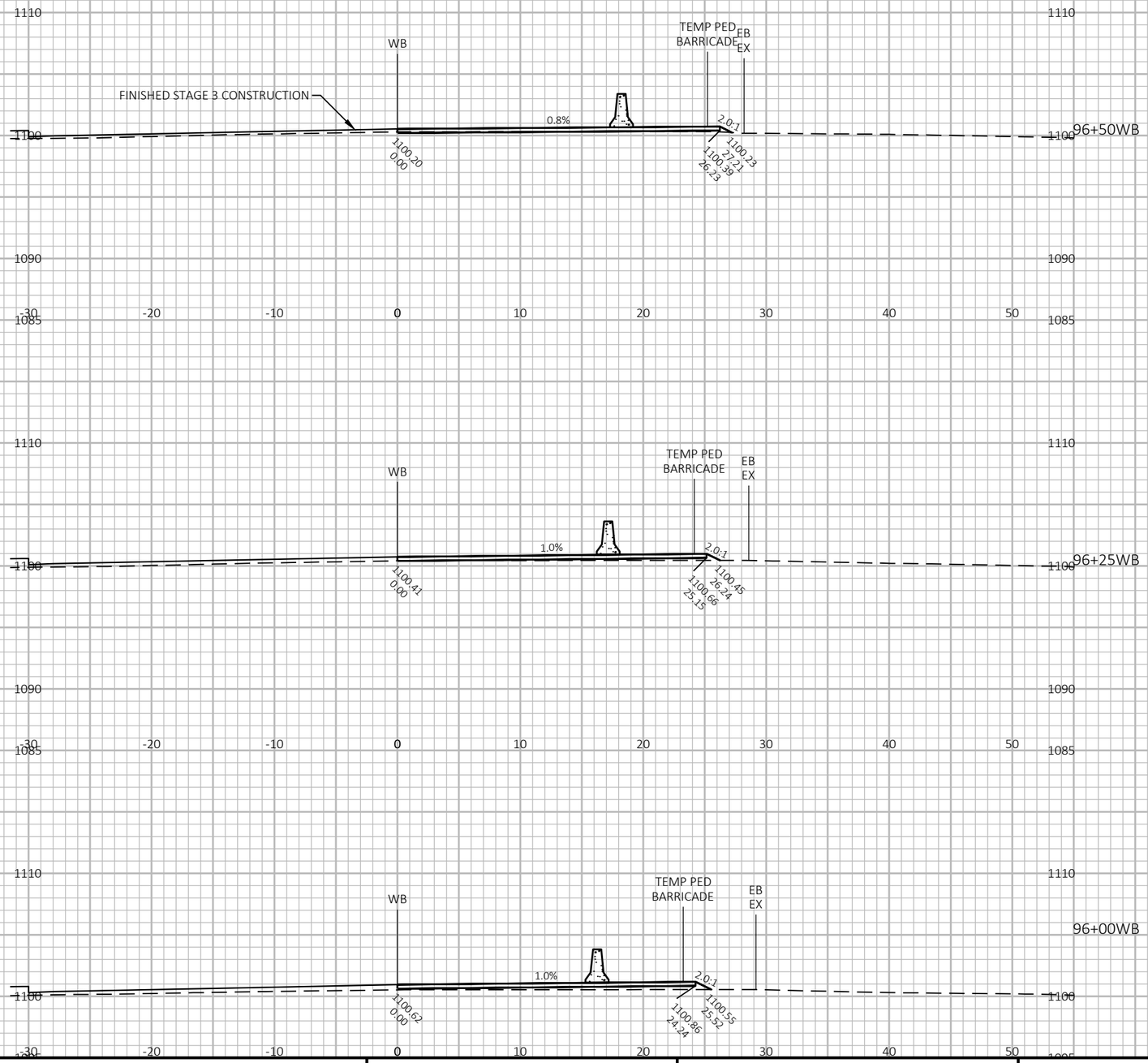
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: STAGE 4 TEMPORARY PAVEMENT	SHEET 758	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 05

PLOT DATE : 11/24/2020 12:58 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

CROSS SECTIONS FOR INFORMATION PURPOSES ONLY



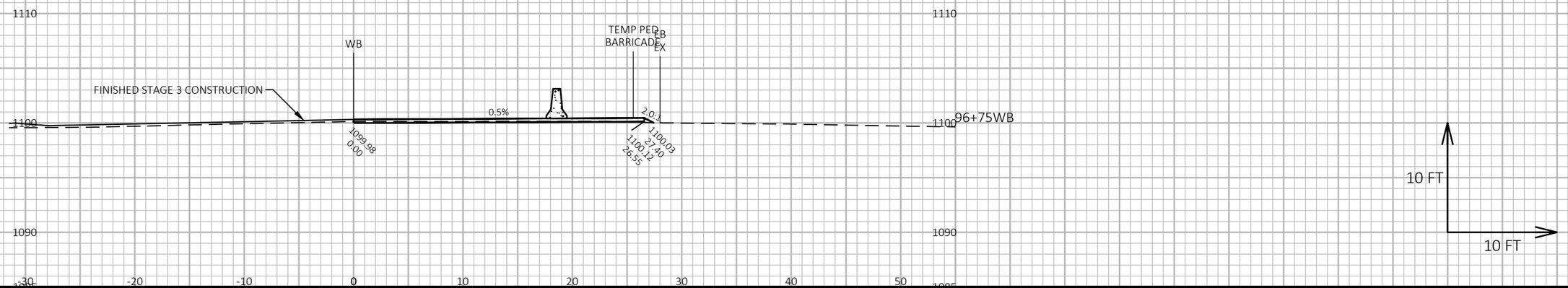
PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: STAGE 4 TEMPORARY PAVEMENT	SHEET 759 E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 06

PLOT DATE : 11/24/2020 12:58 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

CROSS SECTIONS FOR INFORMATION PURPOSES ONLY



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PROJECT NO: 1166-06-75	HWY: USH 10	COUNTY: PORTAGE	CROSS SECTIONS: STAGE 4 TEMPORARY PAVEMENT	SHEET 760	E

FILE NAME : C:\USERS\DOTZAG\DOCUMENTS\11660605\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 07

PLOT DATE : 11/24/2020 12:58 PM PLOT BY : GRULING, ZACHARY P PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov